

Reviewed 10/19/2017  
Elizabeth Penta  
Wood. PLC

# AMEC FOSTER WHEELER

## USDC Penobscot

### Level IV Data Package

Laboratory SDG:

1708151

PO#

C012505874

September 5, 2017

# AMEC Foster Wheeler

## USDC Penobscot

Laboratory SDG: 1708151

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September 5, 2017

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AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W-100-A_080117_SED_00-01	1708151-01	Soil/Sediment	01-Aug-17 15:04	05-Aug-17 09:20
W-100-A_080117_SED_01-03	1708151-02	Soil/Sediment	01-Aug-17 15:06	05-Aug-17 09:20
W-101-INTA_080117_SED_00-01	1708151-03	Soil/Sediment	01-Aug-17 13:03	05-Aug-17 09:20
W-101-INTA_080117_SED_01-03_R1	1708151-04	Soil/Sediment	01-Aug-17 13:05	05-Aug-17 09:20
W-101-INTA_080117_SED_01-03_R2	1708151-05	Soil/Sediment	01-Aug-17 13:05	05-Aug-17 09:20
W-101-INTA_080117_SED_01-03_R3	1708151-06	Soil/Sediment	01-Aug-17 13:05	05-Aug-17 09:20
W-104-B_080117_SED_00-01	1708151-07	Soil/Sediment	01-Aug-17 15:14	05-Aug-17 09:20
W-104-B_080117_SED_01-03	1708151-08	Soil/Sediment	01-Aug-17 15:16	05-Aug-17 09:20
W-104-INTB_080117_SED_00-01	1708151-09	Soil/Sediment	01-Aug-17 14:20	05-Aug-17 09:20
W-104-INTB_080117_SED_01-03	1708151-10	Soil/Sediment	01-Aug-17 14:22	05-Aug-17 09:20
W-106-A_080117_SED_00-01	1708151-11	Soil/Sediment	01-Aug-17 12:50	05-Aug-17 09:20
W-106-A_080117_SED_01-03	1708151-12	Soil/Sediment	01-Aug-17 12:55	05-Aug-17 09:20
W-107-A_080117_SED_00-01	1708151-13	Soil/Sediment	01-Aug-17 16:05	05-Aug-17 09:20
W-107-A_080117_SED_01-03	1708151-14	Soil/Sediment	01-Aug-17 16:07	05-Aug-17 09:20
W-109-A_080117_SED_00-01	1708151-15	Soil/Sediment	01-Aug-17 15:30	05-Aug-17 09:20
W-109-A_080117_SED_01-03	1708151-16	Soil/Sediment	01-Aug-17 15:31	05-Aug-17 09:20
W-110-A_080117_SED_00-01_R1	1708151-17	Soil/Sediment	01-Aug-17 15:43	05-Aug-17 09:20
W-110-A_080117_SED_00-01_R2	1708151-18	Soil/Sediment	01-Aug-17 15:43	05-Aug-17 09:20
W-110-A_080117_SED_00-01_R3	1708151-19	Soil/Sediment	01-Aug-17 15:43	05-Aug-17 09:20
W-110-A_080117_SED_01-03	1708151-20	Soil/Sediment	01-Aug-17 15:45	05-Aug-17 09:20
W-MM-09_080117_SED_00-01	1708151-21	Soil/Sediment	01-Aug-17 13:16	05-Aug-17 09:20
W-MM-09_080117_SED_01-03	1708151-22	Soil/Sediment	01-Aug-17 13:18	05-Aug-17 09:20
W-MM-10_080117_SED_00-01	1708151-23	Soil/Sediment	01-Aug-17 16:15	05-Aug-17 09:20
W-MM-10_080117_SED_01-03	1708151-24	Soil/Sediment	01-Aug-17 16:17	05-Aug-17 09:20
W-MM-15_080117_SED_00-01	1708151-25	Soil/Sediment	01-Aug-17 16:40	05-Aug-17 09:20
W-MM-15_080117_SED_01-03	1708151-26	Soil/Sediment	01-Aug-17 16:42	05-Aug-17 09:20

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The results in this report only apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Maricris dela Rosa, Project Manager

AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W-MM-16_080117_SED_00-01	1708151-27	Soil/Sediment	01-Aug-17 16:27	05-Aug-17 09:20
W-MM-16_080117_SED_01-03	1708151-28	Soil/Sediment	01-Aug-17 16:29	05-Aug-17 09:20
W-MM-20_080117_SED_00-01	1708151-29	Soil/Sediment	01-Aug-17 15:55	05-Aug-17 09:20
W-MM-20_080117_SED_01-03	1708151-30	Soil/Sediment	01-Aug-17 15:57	05-Aug-17 09:20
W-MM-21_080117_SED_00-01	1708151-31	Soil/Sediment	01-Aug-17 13:54	05-Aug-17 09:20
W-MM-21_080117_SED_01-03	1708151-32	Soil/Sediment	01-Aug-17 13:56	05-Aug-17 09:20
W-100-A_080317_SED_03-05	1708151-33	Soil/Sediment	03-Aug-17 13:20	05-Aug-17 09:20
W-100-A_080317_SED_05-10	1708151-34	Soil/Sediment	03-Aug-17 13:22	05-Aug-17 09:20
W-101-INTA_080317_SED_03-05	1708151-35	Soil/Sediment	03-Aug-17 14:28	05-Aug-17 09:20
W-101-INTA_080317_SED_05-10	1708151-36	Soil/Sediment	03-Aug-17 14:30	05-Aug-17 09:20
W-104-B_080317_SED_03-05_R1	1708151-37	Soil/Sediment	03-Aug-17 14:20	05-Aug-17 09:20
W-104-B_080317_SED_03-05_R2	1708151-38	Soil/Sediment	03-Aug-17 14:20	05-Aug-17 09:20
W-104-B_080317_SED_03-05_R3	1708151-39	Soil/Sediment	03-Aug-17 14:20	05-Aug-17 09:20
W-104-B_080317_SED_05-10	1708151-40	Soil/Sediment	03-Aug-17 14:22	05-Aug-17 09:20
W-104-INTB_080317_SED_03-05	1708151-41	Soil/Sediment	03-Aug-17 15:14	05-Aug-17 09:20
W-104-INTB_080317_SED_05-10	1708151-42	Soil/Sediment	03-Aug-17 15:16	05-Aug-17 09:20
W-106-A_080317_SED_03-05	1708151-43	Soil/Sediment	03-Aug-17 13:36	05-Aug-17 09:20
W-106-A_080317_SED_05-10	1708151-44	Soil/Sediment	03-Aug-17 13:38	05-Aug-17 09:20
W-107-A_080317_SED_03-05	1708151-45	Soil/Sediment	03-Aug-17 13:12	05-Aug-17 09:20
W-107-A_080317_SED_05-10	1708151-46	Soil/Sediment	03-Aug-17 13:14	05-Aug-17 09:20
W-109-A_080317_SED_03-05	1708151-47	Soil/Sediment	03-Aug-17 13:58	05-Aug-17 09:20
W-109-A_080317_SED_05-10_R1	1708151-48	Soil/Sediment	03-Aug-17 13:56	05-Aug-17 09:20
W-109-A_080317_SED_05-10_R2	1708151-49	Soil/Sediment	03-Aug-17 13:56	05-Aug-17 09:20
W-109-A_080317_SED_05-10_R3	1708151-50	Soil/Sediment	03-Aug-17 13:56	05-Aug-17 09:20
W-110-A_080317_SED_03-05	1708151-51	Soil/Sediment	03-Aug-17 13:42	05-Aug-17 09:20
W-110-A_080317_SED_05-10	1708151-52	Soil/Sediment	03-Aug-17 13:44	05-Aug-17 09:20

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Maricris dela Rosa, Project Manager

AMEC Foster Wheeler  
 271 Mill Road  
 Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
 Project Number: WO-04A-030  
 Project Manager: Denise King

**Reported:**  
 05-Sep-17 17:47

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W-MM-09_080317_SED_03-05	1708151-53	Soil/Sediment	03-Aug-17 14:04	05-Aug-17 09:20
W-MM-09_080317_SED_05-10	1708151-54	Soil/Sediment	03-Aug-17 14:06	05-Aug-17 09:20
W-MM-10_080317_SED_03-05	1708151-55	Soil/Sediment	03-Aug-17 13:04	05-Aug-17 09:20
W-MM-10_080317_SED_05-10	1708151-56	Soil/Sediment	03-Aug-17 13:06	05-Aug-17 09:20
W-MM-15_080317_SED_03-05	1708151-57	Soil/Sediment	03-Aug-17 12:56	05-Aug-17 09:20
W-MM-15_080317_SED_05-10	1708151-58	Soil/Sediment	03-Aug-17 12:58	05-Aug-17 09:20
W-MM-16_080317_SED_03-05	1708151-59	Soil/Sediment	03-Aug-17 15:24	05-Aug-17 09:20
W-MM-16_080317_SED_05-10	1708151-60	Soil/Sediment	03-Aug-17 15:26	05-Aug-17 09:20
W-MM-20_080317_SED_03-05	1708151-61	Soil/Sediment	03-Aug-17 13:26	05-Aug-17 09:20
W-MM-20_080317_SED_05-10	1708151-62	Soil/Sediment	03-Aug-17 13:28	05-Aug-17 09:20
W-MM-21_080317_SED_03-05	1708151-63	Soil/Sediment	03-Aug-17 14:42	05-Aug-17 09:20
W-MM-21_080317_SED_05-10	1708151-64	Soil/Sediment	03-Aug-17 14:44	05-Aug-17 09:20



AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King**Reported:**  
05-Sep-17 17:47

## SAMPLE RECEIPT

Samples were received at Eurofins Frontier Global Sciences (EFGS) on 8/5/2017 9:20:00 AM . The samples were received on-ice within four sealed coolers at -34.8, -17.1, -48.8, and -32.8 degrees Celsius.

Samples 1708151-08, -09, -10, and -30 arrived in damaged containers. The bottom of these sample jars had been broken, but as the samples themselves were completely frozen, no sample volume was lost and there didn't appear to be any contamination. The sample volume was transferred to new containers before homogenization. The client was notified and advised that the analysis continue.

Client sent revised COC on 8/14/17 with the corrected sample date. Both COCs are included in final report.

Samples 1708151-01->32 were homogenized and split per Work Instructions EFSR-P-SP-WI15953. Portions of these samples were then sent to Alpha Analytical in Mansfield, MA for Total Organic Carbon by Lloyd Kahn and AMEC Foster Wheeler in Durham, NC for Organic Carbon by ASTM D2974-C. These labs will report their data directly to the client.

## SAMPLE PREPARATION AND ANALYSIS

Total solids analysis was performed in accordance with method SM2540B.

Total mercury preparation followed EPA 7474 and the analysis was performed by flow injection atomic fluorescence spectrometry (FI-AFS) in accordance with EPA 1631B.

Samples were prepped using a Potassium Hydroxide/Methanol solution for analysis of methyl mercury (SOP 2986) and analyzed for methyl mercury by cold vapor gas chromatography atomic fluorescence spectrometry (CV-GC-AFS) in accordance with EPA 1630 (EFGS-070/SOP 2808).

Samples were prepped in seven batches for total solids; F708405, F708406, F708424, F708447, F708448, F708449 and F708454. Per client request, the following samples were used as the source QC. Samples 1708151-22 and -42 in batch F708405, sample 1708151-61 in batch F708406.

Samples were prepped in four batches for total Mercury; F708501, F708511, F708512, and F708527. These were analyzed in four sequences; 7H24012, 7H28011, 7H29014, and 7H30017. Per client request, the following samples were used as the source QC. Samples 1708151-01 and -11 in batch F708501, samples 1708151-22 and -31 in batch F708511, samples 1708151-42 and -51 in batch F708512, and sample 1708151-61 in batch F708527.

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Eurofins Frontier Global Sciences, Inc.

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Maricris dela Rosa, Project Manager

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Chelmsford MA, 01824Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King**Reported:**  
05-Sep-17 17:47

Samples were prepped in four batches for Methyl Mercury; F708416, F708475, F708477, and F708549. These were analyzed in six sequences; 7H18012, 7H25003, 7H28014, 7H31009, 7I01002, and 7I01003. Per client request, the following samples were used as the source QC. Samples 1708151-04 and -22 in batch F708475.

#### ANALYTICAL AND QUALITY CONTROL ISSUES

Method blanks were prepared for every preparation to assess possible blank contribution from the sample preparation procedure. The method blanks were carried through the entire analytical procedure. All blanks fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

Liquid spikes, certified reference material (CRM) or a quality control samples (QCS) were prepared for every preparation as a measure of accuracy. All liquid spikes, CRMs and/or QCS samples fell within the established acceptance criteria with the exception of any items narrated above or flagged and described in the notes and definitions section of the report.

As an additional measure of the accuracy of the methods used and to check for matrix interference, matrix spikes (MS) and matrix spike duplicates (MSD) were digested and analyzed. All of the matrix spike recoveries fell within the established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

A reasonable measure of the precision of the analytical methods is the relative percent difference (RPD) between a matrix spike recovery and a matrix spike duplicate recovery and between laboratory control sample recovery and laboratory control sample duplicate recoveries. All of the relative percent differences fell within established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.



# Sample Receipt Checklist

EFGS Work Order: 1708151

Client: Amec

Date & Time Received: 8/5/17 920

Date Labeled: 8/5/17 Labeled By: CSF

Project: \_\_\_\_\_

Received By: CSF

Label Verified By: BW

# of Coolers Received: 1 Samples Arrived By:  Shipping Service \_\_\_\_\_ Courier \_\_\_\_\_ Hand \_\_\_\_\_ Other (Specify: \_\_\_\_\_)

Coolant:  None/Ambient  Loose Ice  Gel Ice  Dry Ice Coolant Required: (Y/N) Temp Blank Used: (Y/N) for Cooler(s): \_\_\_\_\_

Notify Project Manager if packages/coolers are received without coolant or with thawed coolant and at a temperature in excess of 6°C. PM notified: Y/N

Cooler Information:	Y/N/NA	Comments
The coolers do not appear to be tampered with:	<u>Y</u>	
Custody Seals are present and intact:	<u>Y</u>	
Custody seals signed:	<u>Y</u>	

TID: <u>3150</u>	CF: <u>40.2°C</u>	Date/time: <u>8/5/17 920</u>	By: <u>CSF</u>
Cooler 1: <u>-35°C</u>	w/ CF: <u>-34.8°C</u>	Cooler 4: <u>-33°C</u>	w/ CF: <u>-32.8°C</u>
Cooler 2: <u>-17.3°C</u>	w/ CF: <u>-17.1°C</u>	Cooler 5: _____	w/ CF: _____
Cooler 3: <u>-49°C</u>	w/ CF: <u>-48.8°C</u>	Cooler 6: _____	w/ CF: _____

Chain of Custody:	Y/N/NA	Comments
Sample ID/Description:	<u>Y</u>	
Date and time of collection:	<u>Y</u>	
Sampled by:	<u>Y</u>	
Preservation type:	<u>MA</u>	
Requested analyses:	<u>Y</u>	
Required signatures:	<u>Y</u>	
Internal COC required:	<u>N</u>	

Sample Condition/Integrity:	Y/N/NA	Comments
Sample containers intact/present:	<u>Y</u>	
Sample labels are present and legible:	<u>Y</u>	
Sample ID on container/bag matches COC:	<u>Y</u>	
Correct sample containers used:	<u>Y</u>	
Samples received within holding times:	<u>Y</u>	
Sample volume sufficient for requested analyses:	<u>Y</u>	
Correct preservative used for requested analyses:	<u>MA</u>	

Anomalies/Non-conformances (attach additional pages if needed):

Cooler 2: 7874 1203 0318      Cooler 3: 7874 1203 0329  
Cooler 4: 7874 1203 0330

Samples: 1708151-08D, 1708151-09A, 1708151-10 A & 10D, 1708151-30A, broken or cracked jar. Sample were switch to new jar.







# Environmental Analysis Request/Chain of Custody



Frontier Global Sciences

Client: Amec Foster Wheeler / 511 Congress St. Suite 200 Portland, ME 04101		PN # 3616166052.04A.030		<input type="checkbox"/> Matrix		Analyses Requested						For Lab Use Only	
Project Name/#: USDC Penobscot		P.O. #		<input type="checkbox"/> Ground		Preservation Codes						SF # _____	
Project Manager: Rod Pendleton		PWSID #		<input type="checkbox"/> Surface								SCR # _____	
Sampler: BW/JPLT		Quote #		<input type="checkbox"/> Sediment								Preservation Codes	
Phone #:				<input type="checkbox"/> Potable								H = HCl T = Thiosulfate	
State where samples were collected: ME		For Compliance Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<input type="checkbox"/> NPDES								N = HNO <sub>3</sub> B = NaOH	
				<input type="checkbox"/> Water								S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub>	
				<input type="checkbox"/> Other: _____								Q = Other	
				<input checked="" type="checkbox"/> Composite								Remarks	
				<input type="checkbox"/> Soil									
				<input type="checkbox"/> Tissue									
				<input type="checkbox"/> Total # of Containers									
				<input type="checkbox"/> Hg 1631e									
				<input type="checkbox"/> 16 Oz P/ Freeze									
				<input type="checkbox"/> Hg 1631e 8 oz P/ Freeze									
				<input type="checkbox"/> MeHg 1630 16 Oz P/ Freeze									
				<input type="checkbox"/> Hg 1631e Mercury Specimen									
				<input type="checkbox"/> Lead 1631e 16 Oz P/ Freeze									
				<input type="checkbox"/> Hg 1631e 8 oz P/ Freeze									
				<input type="checkbox"/> Hg 1631e 16 Oz P/ Freeze									
				<input type="checkbox"/> Hg 1631e 8 oz P/ Freeze									
				<input type="checkbox"/> Hg 1631e 16 Oz P/ Freeze									
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				<input type="checkbox"/> Hg 1631e 8 oz P/ Freeze									
				<input type="checkbox"/> Hg 1631e 16 Oz P/ Freeze									
				<input type="checkbox"/> Hg 1631e 8 oz P/ Freeze									

# Environmental Analysis Request/Chain of Custody



Client: <b>Amec Foster Wheeler / 511 Congress St. Suite 200 Portland, ME 04101</b>		Matrix		Analyses Requested				For Lab Use Only									
Project Name/#: <b>USDC Penobscot</b>		PN #: <b>3616166052.04A.030</b>		Preservation Codes				SF #: _____									
Project Manager: <b>Rod Pendleton</b>		P.O. #:						SCR #: _____									
Sampler: <b>BW/JR/LT</b>		PWSID #:						Preservation Codes									
Phone #:		Quote #:						H = HCl      T = Thiocyanate									
State where samples were collected: <b>ME</b>		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						N = HNO <sub>3</sub> B = NaOH									
								S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub>									
								O = Other									
								Remarks									
Sample Identification		Collection		Grab	Composite	Soil	Water	Other:	Total # of Containers	Hg 1631e	Hg 1631e	MeHg 1630	Hg 1631e				
		Date	Time			<input type="checkbox"/> Sediment	<input type="checkbox"/> Potable	<input type="checkbox"/> Ground		16 Oz P/Freeze	8 oz P/4 Deg c	16 Oz P/Freeze	16 Oz P/Freeze				
1	W-100-A_080117_SED_03-05	8/3/2017	1320	X	X				1	1							
2	W-100-A_080117_SED_05-10	8/3/2017	1322	X	X				1	1							
3	W-101-INTA_080117_SED_03-05	8/3/2017	1428	X	X				1	1							
4	W-101-INTA_080117_SED_05-10	8/3/2017	1430	X	X				1	1						Use volume for 3X replicate	
5	W-104-B_080117_SED_03-05	8/3/2017	1420	X	X				1	1							
6	W-104-B_080117_SED_05-10	8/3/2017	1422	X	X				1	1							
7	W-104-INTB_080117_SED_03-05	8/3/2017	1514	X	X				1	1						Use Volume for MS/ MSD	
8	W-104-INTB_080117_SED_05-10	8/3/2017	1516	X	X				1	1							
9	W-106-A_080117_SED_03-05	8/3/2017	1336	X	X				1	1							
10	W-106-A_080117_SED_05-10	8/3/2017	1338	X	X				1	1							
11	W-107-A_080117_SED_03-05	8/3/2017	1312	X	X				1	1							
12	W-107-A_080117_SED_05-10	8/3/2017	1314	X	X				1	1							
13	W-109-A_080117_SED_03-05	8/3/2017	1358	X	X				1	1						Use volume for 3X replicate	
14	W-109-A_080117_SED_05-10	8/3/2017	1356	X	X				1	1							
15	W-110-A_080117_SED_03-05	8/3/2017	1342	X	X				1	1							
Turnaround Time Requested (TAT) (please check):		Standard <input type="checkbox"/> Rush <input type="checkbox"/>		Relinquished by:		Date		Time		Received by:		Date		Time			
(Rush TAT is subject to laboratory approval and surcharges.)				<i>[Signature]</i>		8-8-17		1200									
Notes: Lab required to homogenized and aliquot to sub-labs				Relinquished by:		Date		Time		Received by:		Date		Time			
FedEx # _____				Relinquished by:		Date		Time		Received by:		Date		Time			
# of Coolers _____																	
Sample disposal - Hold Equipment Blanks 1-4 until 30 days after delivery of report				Relinquished by:		Date		Time		Received by:		Date		Time			
Report and EDD to: denise.king@amecfw.com / 978-692-6633																	
Data Package Options (please check if required)		High <input type="checkbox"/> Standard <input checked="" type="checkbox"/>		Relinquished by Commercial Carrier:		Date		Time		Received by:		Date		Time			
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		If yes, format: _____														Temperature upon receipt _____ °C	
				UPS _____ FedEx _____ Other _____													

# Environmental Analysis Request/Chain of Custody



Client: <b>Amec Foster Wheeler / 511 Congress St. Suite 200 Portland, ME 04101</b>		PN #.3616166052.04A.030		<b>Analyses Requested</b>		<b>For Lab Use Only</b>	
Project Name/#: <b>USDC Penobscot</b>		P.O. #:					
Project Manager: <b>Rod Pendleton</b>		PWSID #:		<b>Preservation Codes</b>		SF #: _____ SCR #: _____	
Sampler: <b>BW/JP/LT</b>		Quote #:					
Phone #:		State where samples were collected: <b>ME</b>		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Preservation Codes H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub> O = Other	
Matrix		Tissue		Total # of Containers			
<input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Other:		<input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/> Grab <input type="checkbox"/> Composite		Hg 1631e 16 Oz P/Freeze Hg 1631e 8 oz P/4 Deg c MeHg 1630 16 Oz P/Freeze Hg 1631e MeHg 1630 TOC Lloyd Kline COC D2974-C LHM HOMOGENIZE / ADD/DIAT			
<b>Sample Identification</b>		<b>Collection</b>					
		Date	Time				
1	W-110-A_080117_SED_05-10	8/3/2017	1344	X	X	1	1
2	W-MM-09_080117_SED_03-05	8/3/2017	1404	X	X	1	1
3	W-MM-09_080117_SED_05-10	8/3/2017	1406	X	X	1	1
4	W-MM-10_080117_SED_03-05	8/3/2017	1304	X	X	1	1
5	W-MM-10_080117_SED_05-10	8/3/2017	1306	X	X	1	1
6	W-MM-15_080117_SED_03-05	8/3/2017	1256	X	X	1	1
7	W-MM-15_080117_SED_05-10	8/3/2017	1258	X	X	1	1
8	W-MM-16_080117_SED_03-05	8/3/2017	1524	X	X	1	1
9	W-MM-16_080117_SED_05-10	8/3/2017	1526	X	X	1	1
10	W-MM-20_080117_SED_03-05	8/3/2017	1326	X	X	1	1
11	W-MM-20_080117_SED_05-10	8/3/2017	1328	X	X	1	1
12	W-MM-21_080117_SED_03-05	8/3/2017	1442	X	X	1	1
13	W-MM-21_080117_SED_05-10	8/3/2017	1444	X	X	1	1
14							
15							
Turnaround Time Requested (TAT) (please check): Standard <input type="checkbox"/> Rush <input type="checkbox"/> (Rush TAT is subject to laboratory approval and surcharges.)		Relinquished by: <i>[Signature]</i>		Date: <b>8-4-17</b>	Time: <b>1200</b>	Received by: _____	
Notes: Lab required to homogenized and aliquot to sub-labs  FedEx # _____ # of Coolers _____ Sample disposal - Hold Equipment Blanks 1-4 until 30 days after delivery of report Report and EDD to: denise.king@amecfw.com / 978-692-6633		Relinquished by: _____		Date: _____	Time: _____	Received by: _____	
		Relinquished by: _____		Date: _____	Time: _____	Received by: _____	
		Relinquished by: _____		Date: _____	Time: _____	Received by: _____	
Data Package Options (please check if required) High <input type="checkbox"/> Standard <input checked="" type="checkbox"/>		Relinquished by Commercial Carrier: _____		Temperature upon receipt _____ °C			
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, format: _____		UPS _____ FedEx _____ Other _____					



# Environmental Analysis Request/Chain of Custody



Client: Amec Foster Wheeler / 511 Congress St. Suite 200 Portland, ME 04101				<b>Matrix</b>				<b>Analyses Requested</b>										<b>For Lab Use Only</b>	
Project Name/#: USDC Penobscot		PN #:3616166052.04A.030		<input type="checkbox"/> Tissue	<input type="checkbox"/> Ground	<input type="checkbox"/> Surface	<b>Preservation Codes</b>										SF #: _____		
Project Manager: Rod Pendleton		P.O. #:		<input type="checkbox"/> Potable	<input type="checkbox"/> NPDES	<input type="checkbox"/> Water											SCR #: _____		
Sampler: BW/JP/LT		PWSID #:		<input type="checkbox"/> Sediment	<input type="checkbox"/> Other:	<b>Total # of Containers</b>													
Phone #:		Quote #:																	
State where samples were collected: <u>ME</u>		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																	
<b>Collection</b>																			
<b>Sample Identification</b>																			
		Date	Time	Grab	Composite														
1	W-110-A_080317_SED_05-10	8/3/2017	1344		X	X													
2	W-MM-09_080317_SED_03-05	8/3/2017	1404		X	X													
3	W-MM-09_080317_SED_05-10	8/3/2017	1406		X	X													
4	W-MM-10_080317_SED_03-05	8/3/2017	1304		X	X													
5	W-MM-10_080317_SED_05-10	8/3/2017	1306		X	X													
6	W-MM-15_080317_SED_03-05	8/3/2017	1256		X	X													
7	W-MM-15_080317_SED_05-10	8/3/2017	1258		X	X													
8	W-MM-16_080317_SED_03-05	8/3/2017	1524		X	X													
9	W-MM-16_080317_SED_05-10	8/3/2017	1526		X	X													
10	W-MM-20_080317_SED_03-05	8/3/2017	1326		X	X													
11	W-MM-20_080317_SED_05-10	8/3/2017	1328		X	X													
12	W-MM-21_080317_SED_03-05	8/3/2017	1442		X	X													
13	W-MM-21_080317_SED_05-10	8/3/2017	1444		X	X													
14																			
15																			
Turnaround Time Requested (TAT) (please check):      Standard <input type="checkbox"/> Rush <input type="checkbox"/>						Relinquished by:											Date	Time	Received by:
(Rush TAT is subject to laboratory approval and surcharges.)						Relinquished by:		Date	Time	Received by:		Date	Time						
Notes: <b>Lab required to homogenized and aloquat to sub-labs</b>						Relinquished by:		Date	Time	Received by:		Date	Time						
FedEx # _____						Relinquished by:		Date	Time	Received by:		Date	Time						
# of Coolers _____						Relinquished by:		Date	Time	Received by:		Date	Time						
Sample disposal - Hold Equipment Blanks 1-4 until 30 days after delivery of report						Relinquished by:		Date	Time	Received by:		Date	Time						
Report and EDD to: denise.king@amecfw.com / 978-692-6633						Relinquished by:		Date	Time	Received by:		Date	Time						
Data Package Options (please check if required)						Relinquished by Commercial Carrier:													
High <input type="checkbox"/> Standard <input checked="" type="checkbox"/>						UPS _____ FedEx _____ Other _____								Temperature upon receipt _____ °C					
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, format: _____																			



AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**W-100-A\_080117\_SED\_00-01**  
**1708151-01**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	30.6	1.4	5.7	ng/g dry	500	F708416	14-Aug-17	7H18012	17-Aug-17	EPA 1630 Mod/FGS-070	
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	29.8	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	554	14.1	62.1	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	
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*Maricris dela Rosa*



AMEC Foster Wheeler 271 Mill Road Chelmsford MA, 01824	Project: 2017 Penobscot Sediment Cores Project Number: WO-04A-030 Project Manager: Denise King	<b>Reported:</b> 05-Sep-17 17:47
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**W-100-A\_080117\_SED\_01-03  
1708151-02**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	28.6	1.4	5.5	ng/g dry	500	F708416	14-Aug-17	7H18012	17-Aug-17	EPA 1630 Mod/FGS-070	
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	34.2	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	837	12.2	53.9	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	
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*Maricris dela Rosa*



AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**W-101-INTA\_080117\_SED\_00-01**  
**1708151-03**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	13.3	1.3	5.2	ng/g dry	500	F708416	14-Aug-17	7H18012	17-Aug-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	34.8	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	766	11.6	51.2	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	

*Maricris dela Rosa*





AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**W-101-INTA\_080117\_SED\_01-03\_R1**  
**1708151-04**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	5.2	0.5	1.8	ng/g	500	F708549	25-Aug-17	7I01002	31-Aug-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	37.6	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	916	10.4	45.9	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	

*Maricris dela Rosa*



AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**W-101-INTA\_080117\_SED\_01-03\_R2**  
**1708151-05**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	4.5	0.4	1.7	ng/g	500	F708549	25-Aug-17	7I01002	31-Aug-17	EPA 1630 Mod/FGS-070	
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	38.1	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	884	10.7	47.1	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	
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*Maricris dela Rosa*



AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**W-101-INTA\_080117\_SED\_01-03\_R3**  
**1708151-06**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	4.4	0.4	1.8	ng/g	500	F708549	25-Aug-17	7I01002	31-Aug-17	EPA 1630 Mod/FGS-070	
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	36.4	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	864	10.4	46.1	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	
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271 Mill Road  
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Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**W-104-B\_080117\_SED\_00-01**  
**1708151-07**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	1.0	0.4	1.7	ng/g	500	F708549	25-Aug-17	7I01002	31-Aug-17	EPA 1630 Mod/FGS-070	J
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	63.0	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	82.3	6.46	28.5	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	
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Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**W-104-B\_080117\_SED\_01-03**  
**1708151-08**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	0.6	0.4	1.7	ng/g	500	F708549	25-Aug-17	7I01002	31-Aug-17	EPA 1630 Mod/FGS-070	J
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	53.7	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	461	7.10	31.4	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	
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Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**W-104-INTB\_080117\_SED\_00-01**  
**1708151-09**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	6.9	0.4	1.7	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	34.8	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	549	11.4	50.5	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	

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05-Sep-17 17:47

**W-104-INTB\_080117\_SED\_01-03**  
**1708151-10**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	3.7	0.5	1.9	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	34.9	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	698	10.8	47.9	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	



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05-Sep-17 17:47

**W-106-A\_080117\_SED\_00-01**  
**1708151-11**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	3.7	0.5	1.9	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	29.4	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	669	13.3	58.6	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	





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**W-106-A\_080117\_SED\_01-03**  
**1708151-12**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	3.6	0.5	1.9	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	30.4	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	922	12.9	57.0	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	



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**W-107-A\_080117\_SED\_00-01**  
**1708151-13**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	5.9	0.5	1.9	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	36.6	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	513	11.3	49.9	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	



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**W-107-A\_080117\_SED\_01-03**  
**1708151-14**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	8.2	0.5	1.8	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	43.2	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	1060	8.87	39.2	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	

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**W-109-A\_080117\_SED\_00-01**  
**1708151-15**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	ND	0.5	1.9	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	U
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	23.7	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	92.5	17.3	76.4	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	



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**W-109-A\_080117\_SED\_01-03**  
**1708151-16**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	0.6	0.4	1.8	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	J
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	29.9	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	90.8	13.5	59.7	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	



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**W-110-A\_080117\_SED\_00-01\_R1**  
**1708151-17**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	0.5	0.4	1.7	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	J
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	23.5	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	217	18.6	82.2	ng/g dry	50	F708501	22-Aug-17	7H24012	23-Aug-17	EPA 1631B	
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**W-110-A\_080117\_SED\_00-01\_R2**  
**1708151-18**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	0.5	0.4	1.7	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	J
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	23.9	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	200	16.2	71.6	ng/g dry	50	F708511	23-Aug-17	7H29014	28-Aug-17	EPA 1631B	

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**W-110-A\_080117\_SED\_00-01\_R3**  
**1708151-19**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	0.6	0.4	1.7	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	J
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	22.4	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	213	17.4	77.0	ng/g dry	50	F708511	23-Aug-17	7H29014	28-Aug-17	EPA 1631B	





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**W-110-A\_080117\_SED\_01-03**  
**1708151-20**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	4.5	0.5	2.0	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	24.4	0.1	0.1	% by Weight	1	F708424	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	433	15.6	68.9	ng/g dry	50	F708511	23-Aug-17	7H29014	28-Aug-17	EPA 1631B	
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Reported:  
05-Sep-17 17:47

**W-MM-09\_080117\_SED\_00-01**  
**1708151-21**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	2.9	0.4	1.7	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	25.7	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	237	16.2	71.7	ng/g dry	50	F708511	23-Aug-17	7H29014	28-Aug-17	EPA 1631B	
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**W-MM-09\_080117\_SED\_01-03**  
**1708151-22**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	2.2	0.5	1.8	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	23.6	0.1	0.1	% by Weight	1	F708405	14-Aug-17		16-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	725	18.6	82.1	ng/g dry	50	F708511	23-Aug-17	7H29014	28-Aug-17	EPA 1631B	



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**W-MM-10\_080117\_SED\_00-01**  
**1708151-23**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	1.4	0.5	1.9	ng/g	500	F708549	25-Aug-17	7I02003	01-Sep-17	EPA 1630 Mod/FGS-070	J
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	14.2	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	183	28.8	127	ng/g dry	50	F708511	23-Aug-17	7H29014	28-Aug-17	EPA 1631B	



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**W-MM-10\_080117\_SED\_01-03**  
**1708151-24**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	2.7	0.5	1.9	ng/g	500	F708477	18-Aug-17	7H28014	25-Aug-17	EPA 1630 Mod/FGS-070	
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	15.5	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	357	26.5	117	ng/g dry	50	F708511	23-Aug-17	7H29014	28-Aug-17	EPA 1631B	
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**W-MM-15\_080117\_SED\_00-01**  
**1708151-25**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	6.0	0.4	1.7	ng/g	500	F708477	18-Aug-17	7H28014	25-Aug-17	EPA 1630 Mod/FGS-070	
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	25.0	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	282	17.1	75.6	ng/g dry	50	F708511	23-Aug-17	7H29014	28-Aug-17	EPA 1631B	
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Reported:  
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**W-MM-15\_080117\_SED\_01-03**  
**1708151-26**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	2.1	0.4	1.7	ng/g	500	F708477	18-Aug-17	7H28014	25-Aug-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	26.1	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	266	15.7	69.2	ng/g dry	50	F708511	23-Aug-17	7H29014	28-Aug-17	EPA 1631B	



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05-Sep-17 17:47

**W-MM-16\_080117\_SED\_00-01**  
**1708151-27**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	1.8	0.4	1.8	ng/g	500	F708477	18-Aug-17	7H28014	25-Aug-17	EPA 1630 Mod/FGS-070	
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	20.0	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	144	19.5	86.4	ng/g dry	50	F708569	29-Aug-17	7H30017	30-Aug-17	EPA 1631B	
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**W-MM-16\_080117\_SED\_01-03**  
**1708151-28**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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**Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion**

Methyl Mercury (as Mercury)	0.4	0.4	1.7	ng/g	500	F708477	18-Aug-17	7H28014	25-Aug-17	EPA 1630 Mod/FGS-070	J
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**Sample Preparation: EFGS-019 Solids Analysis**

% Solids	26.0	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
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**Sample Preparation: EPA 7474**

Mercury	734	16.3	71.9	ng/g dry	50	F708569	29-Aug-17	7H30017	30-Aug-17	EPA 1631B	
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Reported:  
05-Sep-17 17:47

**W-MM-20\_080117\_SED\_00-01**  
**1708151-29**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	2.9	0.5	1.9	ng/g	500	F708477	18-Aug-17	7H28014	25-Aug-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	35.7	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	348	11.7	51.9	ng/g dry	50	F708569	29-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-MM-20\_080117\_SED\_01-03**  
**1708151-30**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	2.5	0.5	1.8	ng/g	500	F708477	18-Aug-17	7H28014	25-Aug-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	36.2	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	532	11.3	50.0	ng/g dry	50	F708569	29-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-MM-21\_080117\_SED\_00-01**  
**1708151-31**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	2.2	0.5	1.8	ng/g	500	F708477	18-Aug-17	7H28014	25-Aug-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	30.0	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	435	13.6	60.2	ng/g dry	50	F708569	29-Aug-17	7H30017	30-Aug-17	EPA 1631B	

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**W-MM-21\_080117\_SED\_01-03**  
**1708151-32**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-010 KOH/Methanol Hg Digestion</b>											
Methyl Mercury (as Mercury)	1.9	0.5	1.8	ng/g	500	F708477	18-Aug-17	7H28014	25-Aug-17	EPA 1630 Mod/FGS-070	
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	30.8	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	634	13.3	58.6	ng/g dry	50	F708569	29-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-100-A\_080317\_SED\_03-05**  
**1708151-33**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	29.1	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	1620	13.9	61.3	ng/g dry	50	F708569	29-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-100-A\_080317\_SED\_05-10  
1708151-34**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	25.0	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	1180	16.3	71.8	ng/g dry	50	F708569	29-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-101-INTA\_080317\_SED\_03-05**  
**1708151-35**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	41.0	0.1	0.1	% by Weight	1	F708447	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	929	10.2	44.9	ng/g dry	50	F708569	29-Aug-17	7H30017	30-Aug-17	EPA 1631B	





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**W-101-INTA\_080317\_SED\_05-10**  
**1708151-36**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	39.0	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	583	9.94	43.9	ng/g dry	50	F708569	29-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-104-B\_080317\_SED\_03-05\_R1**  
**1708151-37**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	55.4	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	511	7.54	33.3	ng/g dry	50	F708569	29-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-104-B\_080317\_SED\_03-05\_R2**  
**1708151-38**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	53.1	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	519	7.75	34.2	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-104-B\_080317\_SED\_03-05\_R3**  
**1708151-39**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	55.1	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	537	7.63	33.7	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-104-B\_080317\_SED\_05-10**  
**1708151-40**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	52.1	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	296	7.34	32.4	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-104-INTB\_080317\_SED\_03-05**  
**1708151-41**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	37.8	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	977	11.1	49.1	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-104-INTB\_080317\_SED\_05-10**  
**1708151-42**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	41.2	0.1	0.1	% by Weight	1	F708405	14-Aug-17		16-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	1040	9.26	40.9	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-106-A\_080317\_SED\_03-05**  
**1708151-43**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	32.9	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	1720	12.6	55.8	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	





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**W-106-A\_080317\_SED\_05-10  
1708151-44**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	31.7	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	2990	102	451	ng/g dry	400	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	

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**W-107-A\_080317\_SED\_03-05**  
**1708151-45**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	36.4	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	2200	87.4	386	ng/g dry	400	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-107-A\_080317\_SED\_05-10**  
**1708151-46**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	48.4	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	651	7.89	34.8	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-109-A\_080317\_SED\_03-05**  
**1708151-47**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	28.6	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	206	14.2	62.7	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-109-A\_080317\_SED\_05-10\_R1**  
**1708151-48**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	68.8	0.1	0.1	% by Weight	1	F708454	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	38.6	6.17	27.3	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-109-A\_080317\_SED\_05-10\_R2**  
**1708151-49**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	60.1	0.1	0.1	% by Weight	1	F708454	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	38.6	7.28	32.2	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-109-A\_080317\_SED\_05-10\_R3**  
**1708151-50**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	63.6	0.1	0.1	% by Weight	1	F708454	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	36.2	6.33	28.0	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-110-A\_080317\_SED\_03-05**  
**1708151-51**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	41.4	0.1	0.1	% by Weight	1	F708454	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	187	10.1	44.7	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	





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Reported:  
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**W-110-A\_080317\_SED\_05-10**  
**1708151-52**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	70.1	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	30.2	5.56	24.6	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-MM-09\_080317\_SED\_03-05**  
**1708151-53**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	24.7	0.1	0.1	% by Weight	1	F708448	16-Aug-17		18-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	594	16.9	74.6	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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05-Sep-17 17:47

**W-MM-09\_080317\_SED\_05-10**  
**1708151-54**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	28.1	0.1	0.1	% by Weight	1	F708449	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	33.4	2.85	12.6	ng/g dry	10	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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05-Sep-17 17:47

**W-MM-10\_080317\_SED\_03-05**  
**1708151-55**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	18.9	0.1	0.1	% by Weight	1	F708449	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	116	20.8	91.7	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-MM-10\_080317\_SED\_05-10  
1708151-56**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	23.7	0.1	0.1	% by Weight	1	F708449	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	16.5	3.23	14.3	ng/g dry	10	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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**W-MM-15\_080317\_SED\_03-05**  
**1708151-57**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	28.7	0.1	0.1	% by Weight	1	F708449	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	237	13.7	60.6	ng/g dry	50	F708512	23-Aug-17	7H28011	25-Aug-17	EPA 1631B	



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Project Number: WO-04A-030  
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**W-MM-15\_080317\_SED\_05-10**  
**1708151-58**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	29.0	0.1	0.1	% by Weight	1	F708449	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	47.7	2.69	11.9	ng/g dry	10	F708527	25-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-MM-16\_080317\_SED\_03-05**  
**1708151-59**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	31.4	0.1	0.1	% by Weight	1	F708449	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	86.6	13.2	58.2	ng/g dry	50	F708527	25-Aug-17	7H30017	30-Aug-17	EPA 1631B	





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**W-MM-16\_080317\_SED\_05-10  
1708151-60**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	36.4	0.1	0.1	% by Weight	1	F708449	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	23.4	2.32	10.3	ng/g dry	10	F708527	25-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-MM-20\_080317\_SED\_03-05**  
**1708151-61**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	37.1	0.1	0.1	% by Weight	1	F708406	14-Aug-17		17-Aug-17	SM 2540B	O-04
<b>Sample Preparation: EPA 7474</b>											
Mercury	1130	10.6	46.7	ng/g dry	50	F708527	25-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-MM-20\_080317\_SED\_05-10  
1708151-62**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	43.7	0.1	0.1	% by Weight	1	F708449	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	299	9.06	40.0	ng/g dry	50	F708527	25-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-MM-21\_080317\_SED\_03-05**  
**1708151-63**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	26.2	0.1	0.1	% by Weight	1	F708449	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	949	14.8	65.2	ng/g dry	50	F708527	25-Aug-17	7H30017	30-Aug-17	EPA 1631B	



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**W-MM-21\_080317\_SED\_05-10**  
**1708151-64**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
<b>Sample Preparation: EFGS-019 Solids Analysis</b>											
% Solids	26.7	0.1	0.1	% by Weight	1	F708449	17-Aug-17		21-Aug-17	SM 2540B	O-04, O-09
<b>Sample Preparation: EPA 7474</b>											
Mercury	141	15.4	68.2	ng/g dry	50	F708527	25-Aug-17	7H30017	30-Aug-17	EPA 1631B	

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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H18012 - F708416</b>											
<b>Cal Standard (7H18012-CAL1)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	0.05	-		ng/L	0.050050		98.3				
<b>Cal Standard (7H18012-CAL2)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	0.2	-		ng/L	0.20020		93.4				
<b>Cal Standard (7H18012-CAL3)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	1.1	-		ng/L	1.0010		108				
<b>Cal Standard (7H18012-CAL4)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	2.0	-		ng/L	2.0020		98.1				
<b>Cal Standard (7H18012-CAL5)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	4.1	-		ng/L	4.0040		102				
<b>Calibration Blank (7H18012-CCB1)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	0.003	-		ng/L							
<b>Calibration Blank (7H18012-CCB2)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	0.003	-		ng/L							
<b>Calibration Blank (7H18012-CCB3)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7H18012-CCB4)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7H18012-CCB5)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	0.001	-		ng/L							



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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H18012 - F708416</b>											
<b>Calibration Blank (7H18012-CCB6)</b> Prepared & Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7H18012-CCB7)</b> Prepared: 17-Aug-17 Analyzed: 18-Aug-17											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Check (7H18012-CCV1)</b> Prepared & Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		97.4	75-125			
<b>Calibration Check (7H18012-CCV2)</b> Prepared & Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		93.8	75-125			
<b>Calibration Check (7H18012-CCV3)</b> Prepared & Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		93.4	75-125			
<b>Calibration Check (7H18012-CCV4)</b> Prepared & Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		98.8	75-125			
<b>Calibration Check (7H18012-CCV5)</b> Prepared & Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		106	75-125			
<b>Calibration Check (7H18012-CCV6)</b> Prepared & Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		92.2	75-125			
<b>Calibration Check (7H18012-CCV7)</b> Prepared & Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		96.4	75-125			
<b>Instrument Blank (7H18012-IBL1)</b> Prepared & Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	ND	0.001	0.004	ng/L							U



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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H18012 - F708416</b>											
<b>Initial Cal Blank (7H18012-ICB1)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	0.007	-		ng/L							
<b>Initial Cal Check (7H18012-ICV1)</b>					Prepared & Analyzed: 17-Aug-17						
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		98.3	80-120			
<b>Batch 7H25003 - F708475</b>											
<b>Cal Standard (7H25003-CAL1)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	0.05	-		ng/L	0.050050		93.1				
<b>Cal Standard (7H25003-CAL2)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	0.2	-		ng/L	0.20020		96.6				
<b>Cal Standard (7H25003-CAL3)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	1.1	-		ng/L	1.0010		107				
<b>Cal Standard (7H25003-CAL4)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	2.0	-		ng/L	2.0020		98.5				
<b>Cal Standard (7H25003-CAL5)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	4.2	-		ng/L	4.0040		105				
<b>Calibration Blank (7H25003-CCB1)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	0.002	-		ng/L							
<b>Calibration Blank (7H25003-CCB2)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	0.0	-		ng/L							U







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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H25003 - F708475</b>											
<b>Calibration Blank (7H25003-CCB3)</b> Prepared & Analyzed: 24-Aug-17											
Methyl Mercury (as Mercury)	0.001	-		ng/L							
<b>Calibration Blank (7H25003-CCB4)</b> Prepared & Analyzed: 24-Aug-17											
Methyl Mercury (as Mercury)	0.003	-		ng/L							
<b>Calibration Blank (7H25003-CCB5)</b> Prepared & Analyzed: 24-Aug-17											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7H25003-CCB6)</b> Prepared & Analyzed: 24-Aug-17											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7H25003-CCB7)</b> Prepared & Analyzed: 24-Aug-17											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Check (7H25003-CCV1)</b> Prepared & Analyzed: 24-Aug-17											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		88.0	67-133			
<b>Calibration Check (7H25003-CCV2)</b> Prepared & Analyzed: 24-Aug-17											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		76.0	67-133			
<b>Calibration Check (7H25003-CCV3)</b> Prepared & Analyzed: 24-Aug-17											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		83.8	67-133			
<b>Calibration Check (7H25003-CCV4)</b> Prepared & Analyzed: 24-Aug-17											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		77.3	67-133			
<b>Calibration Check (7H25003-CCV5)</b> Prepared & Analyzed: 24-Aug-17											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		82.0	67-133			

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Project Manager: Denise King

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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7H25003 - F708475**

<b>Calibration Check (7H25003-CCV6)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		80.4	67-133			
<b>Calibration Check (7H25003-CCV7)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		99.6	67-133			
<b>Instrument Blank (7H25003-IBL1)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	ND	0.001	0.004	ng/L							U
<b>Initial Cal Blank (7H25003-ICB1)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	0.004	-		ng/L							
<b>Initial Cal Check (7H25003-ICV1)</b>					Prepared & Analyzed: 24-Aug-17						
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		99.7	69-131			

**Batch 7H28014 - F708477**

<b>Cal Standard (7H28014-CAL1)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.05	-		ng/L	0.050050		92.4				
<b>Cal Standard (7H28014-CAL2)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.2	-		ng/L	0.20020		90.3				
<b>Cal Standard (7H28014-CAL3)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	1.0	-		ng/L	1.0010		103				
<b>Cal Standard (7H28014-CAL4)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	2.2	-		ng/L	2.0020		108				



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05-Sep-17 17:47

**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H28014 - F708477</b>											
<b>Cal Standard (7H28014-CAL5)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	4.2	-		ng/L	4.0040		105				
<b>Calibration Blank (7H28014-CCB1)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.001	-		ng/L							
<b>Calibration Blank (7H28014-CCB2)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	-0.0004	-		ng/L							U
<b>Calibration Blank (7H28014-CCB3)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	-0.0004	-		ng/L							U
<b>Calibration Blank (7H28014-CCB4)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	-0.0004	-		ng/L							U
<b>Calibration Blank (7H28014-CCB5)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	-0.0004	-		ng/L							U
<b>Calibration Blank (7H28014-CCB6)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	-0.0004	-		ng/L							U
<b>Calibration Blank (7H28014-CCB7)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	-0.0004	-		ng/L							U
<b>Calibration Blank (7H28014-CCB8)</b>					Prepared: 25-Aug-17 Analyzed: 26-Aug-17						
Methyl Mercury (as Mercury)	-0.0004	-		ng/L							U
<b>Calibration Check (7H28014-CCV1)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		94.9	67-133			

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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H28014 - F708477</b>											
<b>Calibration Check (7H28014-CCV2)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		81.6	67-133			
<b>Calibration Check (7H28014-CCV3)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		96.5	67-133			
<b>Calibration Check (7H28014-CCV4)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		97.4	67-133			
<b>Calibration Check (7H28014-CCV5)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		101	67-133			
<b>Calibration Check (7H28014-CCV6)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.6	-		ng/L	0.50049		125	67-133			
<b>Calibration Check (7H28014-CCV7)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		92.5	67-133			
<b>Calibration Check (7H28014-CCV8)</b>					Prepared: 25-Aug-17 Analyzed: 26-Aug-17						
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		98.1	67-133			
<b>Instrument Blank (7H28014-IBL1)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	ND	0.001	0.004	ng/L							U
<b>Initial Cal Blank (7H28014-ICB1)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.004	-		ng/L							
<b>Initial Cal Check (7H28014-ICV1)</b>					Prepared & Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		89.0	69-131			



AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H31009 - F708524</b>											
<b>Cal Standard (7H31009-CAL1)</b>					Prepared & Analyzed: 30-Aug-17						
Methyl Mercury (as Mercury)	0.05	-		ng/L	0.050050		97.5				
<b>Cal Standard (7H31009-CAL2)</b>					Prepared & Analyzed: 30-Aug-17						
Methyl Mercury (as Mercury)	0.2	-		ng/L	0.20020		93.6				
<b>Cal Standard (7H31009-CAL3)</b>					Prepared & Analyzed: 30-Aug-17						
Methyl Mercury (as Mercury)	1.0	-		ng/L	1.0010		103				
<b>Cal Standard (7H31009-CAL4)</b>					Prepared & Analyzed: 30-Aug-17						
Methyl Mercury (as Mercury)	2.0	-		ng/L	2.0020		101				
<b>Cal Standard (7H31009-CAL5)</b>					Prepared & Analyzed: 30-Aug-17						
Methyl Mercury (as Mercury)	4.2	-		ng/L	4.0040		104				
<b>Calibration Blank (7H31009-CCB1)</b>					Prepared & Analyzed: 30-Aug-17						
Methyl Mercury (as Mercury)	0.002	-		ng/L							
<b>Calibration Blank (7H31009-CCB2)</b>					Prepared & Analyzed: 30-Aug-17						
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7H31009-CCB3)</b>					Prepared & Analyzed: 30-Aug-17						
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7H31009-CCB4)</b>					Prepared & Analyzed: 30-Aug-17						
Methyl Mercury (as Mercury)	0.004	-		ng/L							
<b>Calibration Blank (7H31009-CCB5)</b>					Prepared & Analyzed: 30-Aug-17						
Methyl Mercury (as Mercury)	0.004	-		ng/L							

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Maricris dela Rosa, Project Manager



AMEC Foster Wheeler 271 Mill Road Chelmsford MA, 01824	Project: 2017 Penobscot Sediment Cores Project Number: WO-04A-030 Project Manager: Denise King	Reported: 05-Sep-17 17:47
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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H31009 - F708524</b>											
<b>Calibration Blank (7H31009-CCB6)</b> Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7H31009-CCB7)</b> Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Check (7H31009-CCV1)</b> Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		90.6	67-133			
<b>Calibration Check (7H31009-CCV2)</b> Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		85.7	67-133			
<b>Calibration Check (7H31009-CCV3)</b> Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		94.6	67-133			
<b>Calibration Check (7H31009-CCV4)</b> Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		95.8	67-133			
<b>Calibration Check (7H31009-CCV5)</b> Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		95.7	67-133			
<b>Calibration Check (7H31009-CCV6)</b> Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		88.2	67-133			
<b>Calibration Check (7H31009-CCV7)</b> Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		81.5	67-133			
<b>Instrument Blank (7H31009-IBL1)</b> Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	ND	0.001	0.004	ng/L							U

*Maricris dela Rosa*

AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H31009 - F708524</b>											
<b>Initial Cal Blank (7H31009-ICB1)</b>											
Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	0.005	-		ng/L							
<b>Initial Cal Check (7H31009-ICV1)</b>											
Prepared & Analyzed: 30-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		103	69-131			
<b>Batch 7I01002 - F708549</b>											
<b>Cal Standard (7I01002-CAL1)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.04	-		ng/L	0.050050		86.7				
<b>Cal Standard (7I01002-CAL2)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.2	-		ng/L	0.20020		98.3				
<b>Cal Standard (7I01002-CAL3)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	1.1	-		ng/L	1.0010		107				
<b>Cal Standard (7I01002-CAL4)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	2.1	-		ng/L	2.0020		103				
<b>Cal Standard (7I01002-CAL5)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	4.2	-		ng/L	4.0040		105				
<b>Calibration Blank (7I01002-CCB1)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7I01002-CCB2)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U





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271 Mill Road  
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05-Sep-17 17:47

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7I01002 - F708549

<b>Calibration Blank (7I01002-CCB3)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7I01002-CCB4)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Check (7I01002-CCV1)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		93.7	67-133			
<b>Calibration Check (7I01002-CCV2)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		85.6	67-133			
<b>Calibration Check (7I01002-CCV3)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.1	-		ng/L	0.50049		26.0	67-133			
<b>Calibration Check (7I01002-CCV4)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		88.9	67-133			
<b>Instrument Blank (7I01002-IBL1)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	ND	0.001	0.004	ng/L							U
<b>Initial Cal Blank (7I01002-ICB1)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.006	-		ng/L							
<b>Initial Cal Check (7I01002-ICV1)</b>											
Prepared: 01-Aug-17 Analyzed: 31-Aug-17											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		100	69-131			

Batch 7I02003 - F708539

<b>Cal Standard (7I02003-CAL1)</b>											
Prepared & Analyzed: 01-Sep-17											
Methyl Mercury (as Mercury)	0.05	-		ng/L	0.050050		90.9				

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*Maricris dela Rosa*



AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7I02003 - F708539</b>											
<b>Cal Standard (7I02003-CAL2)</b>					Prepared & Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	0.2	-		ng/L	0.20020		96.5				
<b>Cal Standard (7I02003-CAL3)</b>					Prepared & Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	1.1	-		ng/L	1.0010		107				
<b>Cal Standard (7I02003-CAL4)</b>					Prepared & Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	1.9	-		ng/L	2.0020		97.1				
<b>Cal Standard (7I02003-CAL5)</b>					Prepared & Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	4.3	-		ng/L	4.0040		108				
<b>Calibration Blank (7I02003-CCB1)</b>					Prepared & Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	0.001	-		ng/L							
<b>Calibration Blank (7I02003-CCB2)</b>					Prepared & Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7I02003-CCB3)</b>					Prepared & Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7I02003-CCB4)</b>					Prepared & Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7I02003-CCB5)</b>					Prepared & Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
<b>Calibration Blank (7I02003-CCB6)</b>					Prepared & Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	0.003	-		ng/L							





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Project Manager: Denise King

Reported:  
05-Sep-17 17:47

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7I02003 - F708539</b>											
<b>Calibration Blank (7I02003-CCB7)</b>											
Methyl Mercury (as Mercury)	0.002	-		ng/L							
Prepared & Analyzed: 01-Sep-17											
<b>Calibration Blank (7I02003-CCB8)</b>											
Methyl Mercury (as Mercury)	0.0	-		ng/L							U
Prepared & Analyzed: 01-Sep-17											
<b>Calibration Check (7I02003-CCV1)</b>											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		94.6	67-133			
Prepared & Analyzed: 01-Sep-17											
<b>Calibration Check (7I02003-CCV2)</b>											
Methyl Mercury (as Mercury)	0.3	-		ng/L	0.50049		68.6	67-133			
Prepared & Analyzed: 01-Sep-17											
<b>Calibration Check (7I02003-CCV3)</b>											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		92.2	67-133			
Prepared & Analyzed: 01-Sep-17											
<b>Calibration Check (7I02003-CCV4)</b>											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		91.0	67-133			
Prepared & Analyzed: 01-Sep-17											
<b>Calibration Check (7I02003-CCV5)</b>											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		77.8	67-133			
Prepared & Analyzed: 01-Sep-17											
<b>Calibration Check (7I02003-CCV6)</b>											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		95.9	67-133			
Prepared & Analyzed: 01-Sep-17											
<b>Calibration Check (7I02003-CCV7)</b>											
Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		96.6	67-133			
Prepared & Analyzed: 01-Sep-17											
<b>Calibration Check (7I02003-CCV8)</b>											
Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		84.9	67-133			
Prepared & Analyzed: 01-Sep-17											

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Maricris dela Rosa, Project Manager

AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7I02003 - F708539**

**Calibration Check (7I02003-CCV9)**

Prepared & Analyzed: 01-Sep-17

Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		77.6	67-133			
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**Calibration Check (7I02003-CCVA)**

Prepared & Analyzed: 01-Sep-17

Methyl Mercury (as Mercury)	0.4	-		ng/L	0.50049		84.5	67-133			
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**Instrument Blank (7I02003-IBL1)**

Prepared & Analyzed: 01-Sep-17

Methyl Mercury (as Mercury)	ND	0.001	0.004	ng/L							U
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**Initial Cal Blank (7I02003-ICB1)**

Prepared & Analyzed: 01-Sep-17

Methyl Mercury (as Mercury)	0.006	-		ng/L							
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**Initial Cal Check (7I02003-ICV1)**

Prepared & Analyzed: 01-Sep-17

Methyl Mercury (as Mercury)	0.5	-		ng/L	0.50049		99.2	69-131			
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**Batch F708416 - EFGS-010 KOH/Methanol Hg Digestion**

**Blank (F708416-BLK1)**

Prepared: 14-Aug-17 Analyzed: 17-Aug-17

Methyl Mercury (as Mercury)	ND	0.3	1.0	ng/g wet							U
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**Blank (F708416-BLK2)**

Prepared: 14-Aug-17 Analyzed: 17-Aug-17

Methyl Mercury (as Mercury)	ND	0.3	1.0	ng/g wet							U
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**Blank (F708416-BLK3)**

Prepared: 14-Aug-17 Analyzed: 17-Aug-17

Methyl Mercury (as Mercury)	ND	0.3	1.0	ng/g wet							U
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**Blank (F708416-BLK4)**

Prepared: 14-Aug-17 Analyzed: 17-Aug-17

Methyl Mercury (as Mercury)	ND	0.4	1.7	ng/g wet							F-03, U
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AMEC Foster Wheeler 271 Mill Road Chelmsford MA, 01824	Project: 2017 Penobscot Sediment Cores Project Number: WO-04A-030 Project Manager: Denise King	Reported: 05-Sep-17 17:47
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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch F708416 - EFGS-010 KOH/Methanol Hg Digestion</b>											
<b>Blank (F708416-BLK5)</b> Prepared: 14-Aug-17 Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	ND	0.5	1.8	ng/g wet							F-03, U
<b>LCS (F708416-BS1)</b> Prepared: 14-Aug-17 Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	249.8	1.5	5.9	ng/g wet	330.28		75.6	70-130			
<b>LCS Dup (F708416-BSD1)</b> Prepared: 14-Aug-17 Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	286.6	1.8	7.3	ng/g wet	330.28		86.8	70-130	13.7	25	
<b>Duplicate (F708416-DUP1)</b> Source: 1708148-01 Prepared: 14-Aug-17 Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	155.3	2.4	9.4	ng/g wet		174.2			11.5	35	
<b>Matrix Spike (F708416-MS1)</b> Source: 1708148-01 Prepared: 14-Aug-17 Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	181.9	2.3	9.0	ng/g wet	35.852	174.2	21.5	65-130			QM-02
<b>Matrix Spike (F708416-MS2)</b> Source: 1708367-01 Prepared: 14-Aug-17 Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	193.5	2.5	10.0	ng/g wet	40.040	203.5	-25.0	65-130			QM-02
<b>Matrix Spike Dup (F708416-MSD1)</b> Source: 1708148-01 Prepared: 14-Aug-17 Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	211.5	2.3	9.2	ng/g wet	36.788	174.2	101	65-130	130	35	QR-08
<b>Matrix Spike Dup (F708416-MSD2)</b> Source: 1708367-01 Prepared: 14-Aug-17 Analyzed: 17-Aug-17											
Methyl Mercury (as Mercury)	203.6	2.4	9.7	ng/g wet	38.783	203.5	0.277	65-130	-204	35	QM-02, QR-08
<b>Batch F708477 - EFGS-010 KOH/Methanol Hg Digestion</b>											
<b>Blank (F708477-BLK4)</b> Prepared: 18-Aug-17 Analyzed: 25-Aug-17											
Methyl Mercury (as Mercury)	ND	0.5	2.0	ng/g							U



AMEC Foster Wheeler 271 Mill Road Chelmsford MA, 01824	Project: 2017 Penobscot Sediment Cores Project Number: WO-04A-030 Project Manager: Denise King	Reported: 05-Sep-17 17:47
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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch F708477 - EFGS-010 KOH/Methanol Hg Digestion**

<b>Blank (F708477-BLK5)</b>					Prepared: 18-Aug-17 Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	ND	0.5	2.0	ng/g							U
<b>Blank (F708477-BLK6)</b>					Prepared: 18-Aug-17 Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	ND	0.5	2.0	ng/g							U
<b>LCS (F708477-BS2)</b>					Prepared: 18-Aug-17 Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	274.2	1.9	7.6	ng/g	330.28		83.0	70-130			
<b>LCS Dup (F708477-BSD2)</b>					Prepared: 18-Aug-17 Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	281.3	1.9	7.5	ng/g	330.28		85.2	70-130	2.53	25	
<b>Duplicate (F708477-DUP2)</b>					Source: 1708154-02RE1 Prepared: 18-Aug-17 Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	6.0	0.5	1.9	ng/g		6.2			3.49	35	
<b>Matrix Spike (F708477-MS3)</b>					Source: 1708154-02RE1 Prepared: 18-Aug-17 Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	39.8	0.4	1.7	ng/g	34.048	6.2	98.6	65-130			
<b>Matrix Spike (F708477-MS4)</b>					Source: 1708155-05RE1 Prepared: 18-Aug-17 Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	39.9	0.5	1.9	ng/g	38.949	4.1	91.8	65-130			
<b>Matrix Spike Dup (F708477-MSD3)</b>					Source: 1708154-02RE1 Prepared: 18-Aug-17 Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	43.6	0.4	1.7	ng/g	33.818	6.2	111	65-130	11.4	35	
<b>Matrix Spike Dup (F708477-MSD4)</b>					Source: 1708155-05RE1 Prepared: 18-Aug-17 Analyzed: 25-Aug-17						
Methyl Mercury (as Mercury)	28.9	0.4	1.7	ng/g	34.399	4.1	72.0	65-130	24.1	35	

**Batch F708549 - EFGS-010 KOH/Methanol Hg Digestion**

<b>Blank (F708549-BLK4)</b>					Prepared: 25-Aug-17 Analyzed: 31-Aug-17						
Methyl Mercury (as Mercury)	ND	0.5	2.0	ng/g							U



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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch F708549 - EFGS-010 KOH/Methanol Hg Digestion</b>											
<b>Blank (F708549-BLK5)</b>					Prepared: 25-Aug-17 Analyzed: 31-Aug-17						
Methyl Mercury (as Mercury)	ND	0.5	2.0	ng/g							U
<b>Blank (F708549-BLK6)</b>					Prepared: 25-Aug-17 Analyzed: 31-Aug-17						
Methyl Mercury (as Mercury)	ND	0.5	2.0	ng/g							U
<b>Blank (F708549-BLK7)</b>					Prepared: 25-Aug-17 Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	ND	0.5	2.0	ng/g							U
<b>Blank (F708549-BLK8)</b>					Prepared: 25-Aug-17 Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	ND	0.5	2.0	ng/g							U
<b>Blank (F708549-BLK9)</b>					Prepared: 25-Aug-17 Analyzed: 01-Sep-17						
Methyl Mercury (as Mercury)	ND	0.5	2.0	ng/g							U
<b>LCS (F708549-BS2)</b>					Prepared: 25-Aug-17 Analyzed: 31-Aug-17						
Methyl Mercury (as Mercury)	241.6	1.9	7.5	ng/g	330.28		73.2	70-130			
<b>LCS Dup (F708549-BSD2)</b>					Prepared: 25-Aug-17 Analyzed: 31-Aug-17						
Methyl Mercury (as Mercury)	252.2	2.0	7.8	ng/g	330.28		76.4	70-130	4.29	25	
<b>Duplicate (F708549-DUP2)</b>					Source: 1708151-04RE2 Prepared: 25-Aug-17 Analyzed: 31-Aug-17						
Methyl Mercury (as Mercury)	4.9	0.5	1.9	ng/g		5.2			6.60	35	
<b>Matrix Spike (F708549-MS3)</b>					Source: 1708151-04RE2 Prepared: 25-Aug-17 Analyzed: 31-Aug-17						
Methyl Mercury (as Mercury)	39.1	0.5	1.9	ng/g	37.816	5.2	89.6	65-130			
<b>Matrix Spike (F708549-MS4)</b>					Source: 1708151-22RE2 Prepared: 25-Aug-17 Analyzed: 31-Aug-17						
Methyl Mercury (as Mercury)	40.2	0.5	1.9	ng/g	38.338	2.0	99.7	65-130			





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Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch F708549 - EFGS-010 KOH/Methanol Hg Digestion

<b>Matrix Spike Dup (F708549-MSD3)</b>		<b>Source: 1708151-04RE2</b>		<b>Prepared: 25-Aug-17 Analyzed: 31-Aug-17</b>							
Methyl Mercury (as Mercury)	34.3	0.4	1.7	ng/g	33.445	5.2	87.0	65-130	2.89	35	
<b>Matrix Spike Dup (F708549-MSD4)</b>		<b>Source: 1708151-22RE2</b>		<b>Prepared: 25-Aug-17 Analyzed: 31-Aug-17</b>							
Methyl Mercury (as Mercury)	43.8	0.5	1.9	ng/g	37.519	2.0	111	65-130	11.2	35	

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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H24012 - F708500</b>											
<b>Cal Standard (7H24012-CAL1)</b>					Prepared & Analyzed: 23-Aug-17						
Mercury	0.51	-		ng/L	0.50100		102				
<b>Cal Standard (7H24012-CAL2)</b>					Prepared & Analyzed: 23-Aug-17						
Mercury	1.00	-		ng/L	1.0020		100				
<b>Cal Standard (7H24012-CAL3)</b>					Prepared & Analyzed: 23-Aug-17						
Mercury	5.02	-		ng/L	5.0100		100				
<b>Cal Standard (7H24012-CAL4)</b>					Prepared & Analyzed: 23-Aug-17						
Mercury	19.90	-		ng/L	20.040		99.3				
<b>Cal Standard (7H24012-CAL5)</b>					Prepared & Analyzed: 23-Aug-17						
Mercury	38.81	-		ng/L	40.080		96.8				
<b>Calibration Blank (7H24012-CCB1)</b>					Prepared & Analyzed: 23-Aug-17						
Mercury	0.04	-		ng/L							
<b>Calibration Blank (7H24012-CCB2)</b>					Prepared & Analyzed: 23-Aug-17						
Mercury	0.05	-		ng/L							
<b>Calibration Blank (7H24012-CCB3)</b>					Prepared & Analyzed: 23-Aug-17						
Mercury	0.04	-		ng/L							
<b>Calibration Blank (7H24012-CCB4)</b>					Prepared & Analyzed: 23-Aug-17						
Mercury	0.07	-		ng/L							
<b>Calibration Blank (7H24012-CCB5)</b>					Prepared & Analyzed: 23-Aug-17						
Mercury	0.07	-		ng/L							

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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H24012 - F708500</b>											
<b>Calibration Blank (7H24012-CCB6)</b> Prepared & Analyzed: 23-Aug-17											
Mercury	0.05	-		ng/L							
<b>Calibration Check (7H24012-CCV1)</b> Prepared & Analyzed: 23-Aug-17											
Mercury	5.03	-		ng/L	5.0000		101	77-123			
<b>Calibration Check (7H24012-CCV2)</b> Prepared & Analyzed: 23-Aug-17											
Mercury	4.96	-		ng/L	5.0000		99.1	77-123			
<b>Calibration Check (7H24012-CCV3)</b> Prepared & Analyzed: 23-Aug-17											
Mercury	4.91	-		ng/L	5.0000		98.2	77-123			
<b>Calibration Check (7H24012-CCV4)</b> Prepared & Analyzed: 23-Aug-17											
Mercury	5.06	-		ng/L	5.0000		101	77-123			
<b>Calibration Check (7H24012-CCV5)</b> Prepared & Analyzed: 23-Aug-17											
Mercury	5.06	-		ng/L	5.0000		101	77-123			
<b>Calibration Check (7H24012-CCV6)</b> Prepared & Analyzed: 23-Aug-17											
Mercury	5.01	-		ng/L	5.0000		100	77-123			
<b>Instrument Blank (7H24012-IBL1)</b> Prepared & Analyzed: 23-Aug-17											
Mercury	ND	0.09	0.40	ng/L							U
<b>Instrument Blank (7H24012-IBL2)</b> Prepared & Analyzed: 23-Aug-17											
Mercury	ND	0.09	0.40	ng/L							U
<b>Instrument Blank (7H24012-IBL3)</b> Prepared & Analyzed: 23-Aug-17											
Mercury	ND	0.09	0.40	ng/L							U





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Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H24012 - F708500

Initial Cal Check (7H24012-ICV1)

Prepared & Analyzed: 23-Aug-17

Mercury	4.96	-		ng/L	5.0000		99.1	79-121			
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Batch 7H28011 - F708512

Cal Standard (7H28011-CAL1)

Prepared & Analyzed: 25-Aug-17

Mercury	0.51	-		ng/L	0.50100		101				
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Cal Standard (7H28011-CAL2)

Prepared & Analyzed: 25-Aug-17

Mercury	1.02	-		ng/L	1.0020		102				
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Cal Standard (7H28011-CAL3)

Prepared & Analyzed: 25-Aug-17

Mercury	4.95	-		ng/L	5.0100		98.9				
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Cal Standard (7H28011-CAL4)

Prepared & Analyzed: 25-Aug-17

Mercury	19.42	-		ng/L	20.040		96.9				
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Cal Standard (7H28011-CAL5)

Prepared & Analyzed: 25-Aug-17

Mercury	40.16	-		ng/L	40.080		100				
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Calibration Blank (7H28011-CCB1)

Prepared & Analyzed: 25-Aug-17

Mercury	0.19	-		ng/L							
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Calibration Blank (7H28011-CCB2)

Prepared & Analyzed: 25-Aug-17

Mercury	0.12	-		ng/L							
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Calibration Blank (7H28011-CCB3)

Prepared & Analyzed: 25-Aug-17

Mercury	0.11	-		ng/L							
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Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H28011 - F708512</b>											
<b>Calibration Blank (7H28011-CCB4)</b> Prepared & Analyzed: 25-Aug-17											
Mercury	0.11	-		ng/L							
<b>Calibration Blank (7H28011-CCB5)</b> Prepared & Analyzed: 25-Aug-17											
Mercury	0.18	-		ng/L							
<b>Calibration Check (7H28011-CCV1)</b> Prepared & Analyzed: 25-Aug-17											
Mercury	5.15	-		ng/L	5.0000		103	77-123			
<b>Calibration Check (7H28011-CCV2)</b> Prepared & Analyzed: 25-Aug-17											
Mercury	5.12	-		ng/L	5.0000		102	77-123			
<b>Calibration Check (7H28011-CCV3)</b> Prepared & Analyzed: 25-Aug-17											
Mercury	5.08	-		ng/L	5.0000		102	77-123			
<b>Calibration Check (7H28011-CCV4)</b> Prepared & Analyzed: 25-Aug-17											
Mercury	5.00	-		ng/L	5.0000		100	77-123			
<b>Calibration Check (7H28011-CCV5)</b> Prepared & Analyzed: 25-Aug-17											
Mercury	5.10	-		ng/L	5.0000		102	77-123			
<b>Instrument Blank (7H28011-IBL1)</b> Prepared & Analyzed: 25-Aug-17											
Mercury	ND	0.09	0.40	ng/L							U
<b>Instrument Blank (7H28011-IBL2)</b> Prepared & Analyzed: 25-Aug-17											
Mercury	ND	0.09	0.40	ng/L							U
<b>Instrument Blank (7H28011-IBL3)</b> Prepared & Analyzed: 25-Aug-17											
Mercury	ND	0.09	0.40	ng/L							U

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Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H28011 - F708512

Initial Cal Check (7H28011-ICV1)					Prepared & Analyzed: 25-Aug-17						
Mercury	5.25	-		ng/L	5.0000		105	79-121			

Batch 7H29014 - F708511

Cal Standard (7H29014-CAL1)					Prepared & Analyzed: 28-Aug-17						
Mercury	0.48	-		ng/L	0.50100		95.7				

Cal Standard (7H29014-CAL2)					Prepared & Analyzed: 28-Aug-17						
Mercury	0.96	-		ng/L	1.0020		96.2				

Cal Standard (7H29014-CAL3)					Prepared & Analyzed: 28-Aug-17						
Mercury	5.12	-		ng/L	5.0100		102				

Cal Standard (7H29014-CAL4)					Prepared & Analyzed: 28-Aug-17						
Mercury	20.36	-		ng/L	20.040		102				

Cal Standard (7H29014-CAL5)					Prepared & Analyzed: 28-Aug-17						
Mercury	41.40	-		ng/L	40.080		103				

Calibration Blank (7H29014-CCB1)					Prepared & Analyzed: 28-Aug-17						
Mercury	0.06	-		ng/L							

Calibration Blank (7H29014-CCB2)					Prepared & Analyzed: 28-Aug-17						
Mercury	0.09	-		ng/L							

Calibration Blank (7H29014-CCB3)					Prepared & Analyzed: 28-Aug-17						
Mercury	0.28	-		ng/L							

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Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H29014 - F708511

<b>Calibration Blank (7H29014-CCB4)</b>				Prepared & Analyzed: 28-Aug-17							
Mercury	0.19	-		ng/L							
<b>Calibration Blank (7H29014-CCB5)</b>				Prepared & Analyzed: 28-Aug-17							
Mercury	0.21	-		ng/L							
<b>Calibration Blank (7H29014-CCB6)</b>				Prepared & Analyzed: 28-Aug-17							
Mercury	0.19	-		ng/L							
<b>Calibration Blank (7H29014-CCB7)</b>				Prepared & Analyzed: 28-Aug-17							
Mercury	0.21	-		ng/L							
<b>Calibration Check (7H29014-CCV1)</b>				Prepared & Analyzed: 28-Aug-17							
Mercury	5.36	-		ng/L	5.0000		107	77-123			
<b>Calibration Check (7H29014-CCV2)</b>				Prepared & Analyzed: 28-Aug-17							
Mercury	5.20	-		ng/L	5.0000		104	77-123			
<b>Calibration Check (7H29014-CCV3)</b>				Prepared & Analyzed: 28-Aug-17							
Mercury	5.85	-		ng/L	5.0000		117	77-123			
<b>Calibration Check (7H29014-CCV4)</b>				Prepared & Analyzed: 28-Aug-17							
Mercury	5.24	-		ng/L	5.0000		105	77-123			
<b>Calibration Check (7H29014-CCV5)</b>				Prepared & Analyzed: 28-Aug-17							
Mercury	5.61	-		ng/L	5.0000		112	77-123			
<b>Calibration Check (7H29014-CCV6)</b>				Prepared & Analyzed: 28-Aug-17							
Mercury	5.40	-		ng/L	5.0000		108	77-123			

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Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H29014 - F708511

Calibration Check (7H29014-CCV7) Prepared & Analyzed: 28-Aug-17											
Mercury	5.44	-		ng/L	5.0000		109	77-123			
Instrument Blank (7H29014-IBL1) Prepared & Analyzed: 28-Aug-17											
Mercury	ND	0.09	0.40	ng/L							U
Instrument Blank (7H29014-IBL2) Prepared & Analyzed: 28-Aug-17											
Mercury	ND	0.09	0.40	ng/L							U
Instrument Blank (7H29014-IBL3) Prepared & Analyzed: 28-Aug-17											
Mercury	ND	0.09	0.40	ng/L							U
Initial Cal Check (7H29014-ICV1) Prepared & Analyzed: 28-Aug-17											
Mercury	5.39	-		ng/L	5.0000		108	79-121			

Batch 7H30017 - F708569

Cal Standard (7H30017-CAL1) Prepared & Analyzed: 30-Aug-17											
Mercury	0.52	-		ng/L	0.50100		105				
Cal Standard (7H30017-CAL2) Prepared & Analyzed: 30-Aug-17											
Mercury	0.98	-		ng/L	1.0020		97.6				
Cal Standard (7H30017-CAL3) Prepared & Analyzed: 30-Aug-17											
Mercury	5.03	-		ng/L	5.0100		100				
Cal Standard (7H30017-CAL4) Prepared & Analyzed: 30-Aug-17											
Mercury	19.70	-		ng/L	20.040		98.3				

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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 7H30017 - F708569</b>											
<b>Cal Standard (7H30017-CAL5)</b>					Prepared & Analyzed: 30-Aug-17						
Mercury	39.36	-		ng/L	40.080		98.2				
<b>Calibration Blank (7H30017-CCB1)</b>					Prepared & Analyzed: 30-Aug-17						
Mercury	0.01	-		ng/L							
<b>Calibration Blank (7H30017-CCB2)</b>					Prepared & Analyzed: 30-Aug-17						
Mercury	0.02	-		ng/L							
<b>Calibration Blank (7H30017-CCB3)</b>					Prepared & Analyzed: 30-Aug-17						
Mercury	0.04	-		ng/L							
<b>Calibration Blank (7H30017-CCB4)</b>					Prepared & Analyzed: 30-Aug-17						
Mercury	0.03	-		ng/L							
<b>Calibration Blank (7H30017-CCB5)</b>					Prepared & Analyzed: 30-Aug-17						
Mercury	0.05	-		ng/L							
<b>Calibration Blank (7H30017-CCB6)</b>					Prepared & Analyzed: 30-Aug-17						
Mercury	0.06	-		ng/L							
<b>Calibration Blank (7H30017-CCB7)</b>					Prepared & Analyzed: 30-Aug-17						
Mercury	0.04	-		ng/L							
<b>Calibration Check (7H30017-CCV1)</b>					Prepared & Analyzed: 30-Aug-17						
Mercury	5.08	-		ng/L	5.0000		102	77-123			
<b>Calibration Check (7H30017-CCV2)</b>					Prepared & Analyzed: 30-Aug-17						
Mercury	5.09	-		ng/L	5.0000		102	77-123			

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Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7H30017 - F708569

Calibration Check (7H30017-CCV3) Prepared & Analyzed: 30-Aug-17

Mercury	5.02	-		ng/L	5.0000		100	77-123			
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Calibration Check (7H30017-CCV4) Prepared & Analyzed: 30-Aug-17

Mercury	5.09	-		ng/L	5.0000		102	77-123			
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Calibration Check (7H30017-CCV5) Prepared & Analyzed: 30-Aug-17

Mercury	5.05	-		ng/L	5.0000		101	77-123			
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Calibration Check (7H30017-CCV6) Prepared & Analyzed: 30-Aug-17

Mercury	5.06	-		ng/L	5.0000		101	77-123			
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Calibration Check (7H30017-CCV7) Prepared & Analyzed: 30-Aug-17

Mercury	5.05	-		ng/L	5.0000		101	77-123			
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Instrument Blank (7H30017-IBL1) Prepared & Analyzed: 30-Aug-17

Mercury	ND	0.09	0.40	ng/L							U
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Instrument Blank (7H30017-IBL2) Prepared & Analyzed: 30-Aug-17

Mercury	ND	0.09	0.40	ng/L							U
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Instrument Blank (7H30017-IBL3) Prepared & Analyzed: 30-Aug-17

Mercury	ND	0.09	0.40	ng/L							U
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Initial Cal Check (7H30017-ICV1) Prepared & Analyzed: 30-Aug-17

Mercury	5.16	-		ng/L	5.0000		103	79-121			
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Batch F708501 - EPA 7474

Blank (F708501-BLK1) Prepared: 22-Aug-17 Analyzed: 23-Aug-17

Mercury	ND	0.91	4.00	ng/g wet							U
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*Maricris dela Rosa*



AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch F708501 - EPA 7474**

<b>Blank (F708501-BLK2)</b>					Prepared: 22-Aug-17 Analyzed: 23-Aug-17						
Mercury	ND	0.91	4.00	ng/g wet							U
<b>LCS (F708501-BS1)</b>					Prepared: 22-Aug-17 Analyzed: 23-Aug-17						
Mercury	89.23	9.05	40.0	ng/g wet	80.000		112	75-125			
<b>LCS Dup (F708501-BSD1)</b>					Prepared: 22-Aug-17 Analyzed: 23-Aug-17						
Mercury	80.91	9.05	40.0	ng/g wet	80.000		101	75-125	9.79	24	
<b>Matrix Spike (F708501-MS1)</b>					Source: 1708151-01 Prepared: 22-Aug-17 Analyzed: 23-Aug-17						
Mercury	3054	102	452	ng/g dry	2833.7	553.9	88.2	71-125			
<b>Matrix Spike (F708501-MS2)</b>					Source: 1708151-11 Prepared: 22-Aug-17 Analyzed: 23-Aug-17						
Mercury	3453	111	489	ng/g dry	3064.3	669.5	90.8	71-125			
<b>Matrix Spike Dup (F708501-MSD1)</b>					Source: 1708151-01 Prepared: 22-Aug-17 Analyzed: 23-Aug-17						
Mercury	3344	109	482	ng/g dry	3016.7	553.9	92.5	71-125	4.73	24	
<b>Matrix Spike Dup (F708501-MSD2)</b>					Source: 1708151-11 Prepared: 22-Aug-17 Analyzed: 23-Aug-17						
Mercury	3555	118	521	ng/g dry	3264.5	669.5	88.4	71-125	2.74	24	

**Batch F708511 - EPA 7474**

<b>Blank (F708511-BLK1)</b>					Prepared: 23-Aug-17 Analyzed: 28-Aug-17						
Mercury	0.98	0.91	4.00	ng/g wet							J
<b>Blank (F708511-BLK2)</b>					Prepared: 23-Aug-17 Analyzed: 28-Aug-17						
Mercury	ND	0.91	4.00	ng/g wet							U



AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch F708511 - EPA 7474**

<b>LCS (F708511-BS1)</b>					Prepared: 23-Aug-17 Analyzed: 28-Aug-17						
Mercury	82.73	0.91	4.00	ng/g wet	80.000		103	75-125			
<b>LCS Dup (F708511-BSD1)</b>					Prepared: 23-Aug-17 Analyzed: 28-Aug-17						
Mercury	81.47	0.91	4.00	ng/g wet	80.000		102	75-125	1.55	24	
<b>Matrix Spike (F708511-MS1)</b>					<b>Source: 1708151-22</b>		Prepared: 23-Aug-17 Analyzed: 28-Aug-17				
Mercury	4536	139	616	ng/g dry	3859.8	725.5	98.7	71-125			
<b>Matrix Spike Dup (F708511-MSD1)</b>					<b>Source: 1708151-22</b>		Prepared: 23-Aug-17 Analyzed: 28-Aug-17				
Mercury	4358	134	593	ng/g dry	3711.3	725.5	97.9	71-125	0.854	24	

**Batch F708512 - EPA 7474**

<b>Blank (F708512-BLK1)</b>					Prepared: 23-Aug-17 Analyzed: 25-Aug-17						
Mercury	ND	0.91	4.00	ng/g wet							U
<b>Blank (F708512-BLK2)</b>					Prepared: 23-Aug-17 Analyzed: 25-Aug-17						
Mercury	ND	0.91	4.00	ng/g wet							U
<b>LCS (F708512-BS1)</b>					Prepared: 23-Aug-17 Analyzed: 25-Aug-17						
Mercury	91.79	9.05	40.0	ng/g wet	80.000		115	75-125			
<b>LCS Dup (F708512-BSD1)</b>					Prepared: 23-Aug-17 Analyzed: 25-Aug-17						
Mercury	86.86	9.05	40.0	ng/g wet	80.000		109	75-125	5.53	24	
<b>Matrix Spike (F708512-MS1)</b>					<b>Source: 1708151-42</b>		Prepared: 23-Aug-17 Analyzed: 25-Aug-17				
Mercury	3061	79.8	352	ng/g dry	2206.9	1045	91.4	71-125			



AMEC Foster Wheeler  
271 Mill Road  
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Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch F708512 - EPA 7474**

<b>Matrix Spike (F708512-MS2)</b>		<b>Source: 1708151-51</b>		<b>Prepared: 23-Aug-17 Analyzed: 25-Aug-17</b>							
Mercury	2494	81.3	359	ng/g dry	2249.3	186.7	103	71-125			
<b>Matrix Spike Dup (F708512-MSD1)</b>		<b>Source: 1708151-42</b>		<b>Prepared: 23-Aug-17 Analyzed: 25-Aug-17</b>							
Mercury	3007	78.5	347	ng/g dry	2171.5	1045	90.4	71-125	1.09	24	
<b>Matrix Spike Dup (F708512-MSD2)</b>		<b>Source: 1708151-51</b>		<b>Prepared: 23-Aug-17 Analyzed: 25-Aug-17</b>							
Mercury	2265	76.5	338	ng/g dry	2115.6	186.7	98.2	71-125	4.33	24	

**Batch F708527 - EPA 7474**

<b>Blank (F708527-BLK1)</b>		<b>Prepared: 25-Aug-17 Analyzed: 30-Aug-17</b>									
Mercury	ND	0.91	4.00	ng/g wet							U
<b>Blank (F708527-BLK2)</b>		<b>Prepared: 25-Aug-17 Analyzed: 30-Aug-17</b>									
Mercury	ND	0.91	4.00	ng/g wet							U
<b>LCS (F708527-BS1)</b>		<b>Prepared: 25-Aug-17 Analyzed: 30-Aug-17</b>									
Mercury	80.79	0.91	4.00	ng/g wet	80.000		101	75-125			
<b>LCS Dup (F708527-BSD1)</b>		<b>Prepared: 25-Aug-17 Analyzed: 30-Aug-17</b>									
Mercury	84.38	0.91	4.00	ng/g wet	80.000		105	75-125	4.35	24	
<b>Matrix Spike (F708527-MS1)</b>		<b>Source: 1708151-61</b>		<b>Prepared: 25-Aug-17 Analyzed: 30-Aug-17</b>							
Mercury	3077	82.3	364	ng/g dry	2278.0	1132	85.4	71-125			
<b>Matrix Spike (F708527-MS2)</b>		<b>Source: 1708154-02</b>		<b>Prepared: 25-Aug-17 Analyzed: 30-Aug-17</b>							
Mercury	3976	134	593	ng/g dry	3714.4	604.5	90.8	71-125			



AMEC Foster Wheeler 271 Mill Road Chelmsford MA, 01824	Project: 2017 Penobscot Sediment Cores Project Number: WO-04A-030 Project Manager: Denise King	Reported: 05-Sep-17 17:47
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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch F708527 - EPA 7474**

<b>Matrix Spike Dup (F708527-MSD1)</b>		<b>Source: 1708151-61</b>			Prepared: 25-Aug-17 Analyzed: 30-Aug-17						
Mercury	3248	84.5	374	ng/g dry	2339.2	1132	90.5	71-125	5.80	24	
<b>Matrix Spike Dup (F708527-MSD2)</b>		<b>Source: 1708154-02</b>			Prepared: 25-Aug-17 Analyzed: 30-Aug-17						
Mercury	4197	130	575	ng/g dry	3599.1	604.5	99.8	71-125	9.49	24	

**Batch F708569 - EPA 7474**

<b>Blank (F708569-BLK1)</b>		Prepared: 29-Aug-17 Analyzed: 30-Aug-17									
Mercury	ND	0.91	4.00	ng/g wet							U
<b>Blank (F708569-BLK2)</b>		Prepared: 29-Aug-17 Analyzed: 30-Aug-17									
Mercury	ND	0.91	4.00	ng/g wet							U
<b>LCS (F708569-BS1)</b>		Prepared: 29-Aug-17 Analyzed: 30-Aug-17									
Mercury	85.55	0.91	4.00	ng/g wet	80.000		107	75-125			
<b>LCS Dup (F708569-BSD1)</b>		Prepared: 29-Aug-17 Analyzed: 30-Aug-17									
Mercury	86.22	0.91	4.00	ng/g wet	80.000		108	75-125	0.786	24	
<b>Matrix Spike (F708569-MS1)</b>		<b>Source: 1708151-30RE1</b>			Prepared: 29-Aug-17 Analyzed: 30-Aug-17						
Mercury	2957	94.0	415	ng/g dry	2601.0	531.6	93.2	71-125			
<b>Matrix Spike (F708569-MS2)</b>		<b>Source: 1708523-01</b>			Prepared: 29-Aug-17 Analyzed: 30-Aug-17						
Mercury	2502	73.7	326	ng/g dry	2040.0	701.6	88.3	71-125			
<b>Matrix Spike Dup (F708569-MSD1)</b>		<b>Source: 1708151-30RE1</b>			Prepared: 29-Aug-17 Analyzed: 30-Aug-17						
Mercury	2666	84.6	374	ng/g dry	2340.2	531.6	91.2	71-125	2.22	24	





AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch F708569 - EPA 7474

Matrix Spike Dup (F708569-MSD2)

Source: 1708523-01

Prepared: 29-Aug-17 Analyzed: 30-Aug-17

Mercury	2453	73.3	324	ng/g dry	2027.8	701.6	86.4	71-125	2.16	24	
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*Maricris dela Rosa*

AMEC Foster Wheeler 271 Mill Road Chelmsford MA, 01824	Project: 2017 Penobscot Sediment Cores Project Number: WO-04A-030 Project Manager: Denise King	Reported: 05-Sep-17 17:47
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**Quality Control Data**

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch F708405 - EFGS-019 Solids Analysis**

<b>Duplicate (F708405-DUP1)</b>		<b>Source: 1708151-22</b>			Prepared: 14-Aug-17 Analyzed: 16-Aug-17						
% Solids	23.7	0.1	0.1	% by Weight		23.6			0.423	10	O-04
<b>Duplicate (F708405-DUP2)</b>		<b>Source: 1708151-42</b>			Prepared: 14-Aug-17 Analyzed: 16-Aug-17						
% Solids	41.3	0.1	0.1	% by Weight		41.2			0.242	10	O-04

**Batch F708406 - EFGS-019 Solids Analysis**

<b>Duplicate (F708406-DUP1)</b>		<b>Source: 1708151-61</b>			Prepared: 14-Aug-17 Analyzed: 17-Aug-17						
% Solids	37.9	0.1	0.1	% by Weight		37.1			2.13	10	O-04
<b>Duplicate (F708406-DUP2)</b>		<b>Source: 1708154-02</b>			Prepared: 14-Aug-17 Analyzed: 17-Aug-17						
% Solids	24.7	0.1	0.1	% by Weight		24.0			2.87	10	O-04

**Batch F708424 - EFGS-019 Solids Analysis**

<b>Duplicate (F708424-DUP1)</b>		<b>Source: 1708151-08</b>			Prepared: 16-Aug-17 Analyzed: 18-Aug-17						
% Solids	56.6	0.1	0.1	% by Weight		53.7			5.26	10	O-04
<b>Duplicate (F708424-DUP2)</b>		<b>Source: 1708151-10</b>			Prepared: 16-Aug-17 Analyzed: 18-Aug-17						
% Solids	34.5	0.1	0.1	% by Weight		34.9			1.15	10	O-04

**Batch F708447 - EFGS-019 Solids Analysis**

<b>Duplicate (F708447-DUP1)</b>		<b>Source: 1708151-26</b>			Prepared: 16-Aug-17 Analyzed: 18-Aug-17						
% Solids	22.8	0.1	0.1	% by Weight		26.1			13.5	10	O-04, Z-01

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AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch F708447 - EFGS-019 Solids Analysis

<b>Duplicate (F708447-DUP2)</b>		<b>Source: 1708151-35</b>			Prepared: 16-Aug-17 Analyzed: 18-Aug-17						
% Solids	41.4	0.1	0.1	% by Weight		41.0			0.971	10	O-04

Batch F708448 - EFGS-019 Solids Analysis

<b>Duplicate (F708448-DUP1)</b>		<b>Source: 1708151-45</b>			Prepared: 16-Aug-17 Analyzed: 18-Aug-17						
% Solids	35.9	0.1	0.1	% by Weight		36.4			1.38	10	O-04

<b>Duplicate (F708448-DUP2)</b>		<b>Source: 1708151-53</b>			Prepared: 16-Aug-17 Analyzed: 18-Aug-17						
% Solids	24.8	0.1	0.1	% by Weight		24.7			0.404	10	O-04

Batch F708449 - EFGS-019 Solids Analysis

<b>Duplicate (F708449-DUP1)</b>		<b>Source: 1708151-54</b>			Prepared: 16-Aug-17 Analyzed: 21-Aug-17						
% Solids	27.0	0.1	0.1	% by Weight		28.1			3.99	10	O-04, O-09

<b>Duplicate (F708449-DUP2)</b>		<b>Source: 1708151-55</b>			Prepared: 16-Aug-17 Analyzed: 21-Aug-17						
% Solids	18.2	0.1	0.1	% by Weight		18.9			3.77	10	O-04, O-09

Batch F708454 - EFGS-019 Solids Analysis

<b>Duplicate (F708454-DUP1)</b>		<b>Source: 1708156-08</b>			Prepared: 17-Aug-17 Analyzed: 21-Aug-17						
% Solids	35.4	0.1	0.1	% by Weight		35.8			1.12	10	O-04, O-09

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Maricris dela Rosa, Project Manager

AMEC Foster Wheeler  
271 Mill Road  
Chelmsford MA, 01824

Project: 2017 Penobscot Sediment Cores  
Project Number: WO-04A-030  
Project Manager: Denise King

Reported:  
05-Sep-17 17:47

**Notes and Definitions**

- Z-01 RPD>10% due to %TS being <25% on the duplicate sample; QA approved. CLC 8/21/17
- U Analyte was not detected and is reported as less than the LOD or as defined by the client. The LOD has been adjusted for any dilution or concentration of the sample.
- QR-08 The RPD value for the MS/MSD was outside of acceptance limits. Batch QC acceptable based on matrix duplicate and/or LCS/LCSD RPD values within control limits.
- QR-07 The RPD/RSD value for the matrix duplicate/triplicate was outside of acceptance limits. Batch QC acceptable based on MS/MSD and/or LCS/LCSD RPD values within control limits.
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on LCS and LCSD recoveries within control limits and, when analysis permits, acceptable AS/ASD.
- QM-02 The MS and/or MSD recoveries outside acceptance limits, due to spike concentration less than 1 times the sample concentration. The batch was accepted based on LCS and LCSD recoveries within control limits and, when analysis permits, acceptable AS/ASD.
- O-09 Total Solids are prepared at the same time as the preparation for the analyte(s) of interest in order to provide the most accurate dry mass correction.
- O-04 This sample was analyzed outside of the recommended holding time.
- J The result is an estimated concentration.
- FB This blank is a filtration blank. Data is reported for informational purposes only.
- F-03 This method blank is an equipment blank created during the homogenization process of associated samples at the laboratory. For informational purposes only.
- E-01 Sample was preceded by a sample exceeding the calibration curve and was reanalyzed for confirmation.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference







# Frontier Global Sciences

## Total Solids Dataset Cover Page

**Dataset ID:** TS170814-3  
**Batch ID:** F708405  
**Work Order(s):** 1707771, 1708151

**Analyst:** CLC  
**Prep. Date:** 8/14/2017

### Analytical Issues/Explanations:

QUALITY ASSURANCE  
PEER - REVIEWED  
INITIALS: DM 8/16/17

Preparation Date: Aug 14, 2017

Batch #: 3

Analyst: CLC

Batch ID: F708405

Work Order(s): 1707771, 1708151

Pan ID	Sample ID	Pan Wt (g)	Pan + Sample Wet (g)	Wet Sample (g)	Pan + Sample Dry (g)	Dry Sample (g)	% TS	Notes
1	1707771-BG	1.0190	6.9650	5.9460	4.6440	3.6250	61.0%	
2	1707771-BH	0.9950	6.3900	5.3950	2.5660	1.5710	29.1%	
3	1707771-BI	1.0340	6.9550	5.9210	2.7070	1.6730	28.3%	
4	1707771-BJ	0.9780	6.6010	5.6230	2.4920	1.5140	26.9%	
5	1707771-BL	0.9850	6.3600	5.3750	3.2090	2.2240	41.4%	
6	1707771-BM	1.0020	6.7950	5.7930	3.4280	2.4260	41.9%	
7	1707771-BN	0.9990	6.5440	5.5450	2.2260	1.2270	22.1%	
8	1707771-BO	1.0030	6.2370	5.2340	2.6970	1.6940	32.4%	
9	1707771-BP	0.9810	6.7260	5.7450	2.5040	1.5230	26.5%	
10	1707771-BQ	0.9800	6.9930	6.0130	2.5640	1.5840	26.3%	
11	1707771-BR	0.9930	6.8240	5.8310	2.5950	1.6020	27.5%	
12	1707771-BS	1.0200	6.8040	5.7840	2.4820	1.4620	25.3%	
13	1707771-BT	1.0370	6.8440	5.8070	2.3940	1.3570	23.4%	
14	1707771-BU	1.0330	6.1690	5.1360	2.2560	1.2230	23.8%	
15	1707771-BV	0.9990	6.1040	5.1050	2.5030	1.5040	29.5%	
16	1707771-BW	0.9980	6.9260	5.9280	2.5990	1.6010	27.0%	
17	1707771-BX	0.9760	6.3750	5.3990	2.5550	1.5790	29.2%	
18	1707771-BZ	1.0050	6.9800	5.9750	2.3090	1.3040	21.8%	
19	1708151-22	0.9920	6.9130	5.9210	2.3890	1.3970	23.6%	
20	1708151-22MD	0.9830	6.6380	5.6550	2.3240	1.3410	23.7%	0.5%
21	1708151-42	0.9990	6.7430	5.7440	3.3670	2.3680	41.2%	
22	1708151-42MD	1.0050	6.7030	5.6980	3.3560	2.3510	41.3%	0.1%

Preparation Date: Aug 14, 2017

Batch #: 3

Analyst: CLC

Batch ID: F708405

Work Order(s): 1707771, 1708151

Pan ID	Sample ID	Pan Wt (g)	Pan + Sample Wet (g)	Wet Sample (g)	Pan + Sample Dry (g)	Dry Sample (g)	% TS	Notes
1	1707771-BG	1.0190	6.9650	5.9460	4.6440	3.6250	61.0%	
2	1707771-BH	0.9950	6.3900	5.3950	2.5660	1.5710	29.1%	
3	1707771-BI	1.0340	6.9550	5.9210	2.7070	1.6730	28.3%	
4	1707771-BJ	0.9780	6.6010	5.6230	2.4920	1.5140	26.9%	
5	1707771-BL	0.9850	6.3600	5.3750	3.2090	2.2240	41.4%	
6	1707771-BM	1.0020	6.7950	5.7930	3.4280	2.4260	41.9%	
7	1707771-BN	0.9990	6.5440	5.5450	2.2260	1.2270	22.1%	
8	1707771-BO	1.0030	6.2370	5.2340	2.6970	1.6940	32.4%	
9	1707771-BP	0.9810	6.7260	5.7450	2.5040	1.5230	26.5%	
10	1707771-BQ	0.6980	6.9930	6.2950	2.5640	1.8660	29.6%	
11	1707771-BR	0.9930	6.8240	5.8310	2.5950	1.6020	27.5%	
12	1707771-BS	1.0200	6.8040	5.7840	2.4820	1.4620	25.3%	
13	1707771-BT	1.0370	6.8440	5.8070	2.3940	1.3570	23.4%	
14	1707771-BU	1.0330	6.1690	5.1360	2.2560	1.2230	23.8%	
15	1707771-BV	0.9990	6.1040	5.1050	2.5030	1.5040	29.5%	
16	1707771-BW	0.9980	6.9260	5.9280	2.5990	1.6010	27.0%	
17	1707771-BX	0.9760	6.3750	5.3990	2.5550	1.5790	29.2%	
18	1707771-BZ	1.0050	6.9800	5.9750	2.3090	1.3040	21.8%	
19	1708151-22	0.9920	6.9130	5.9210	2.3890	1.3970	23.6%	
20	1708151-22MD	0.9830	6.6380	5.6550	2.3240	1.3410	23.7%	0.5%
21	1708151-42	0.9990	6.7430	5.7440	3.3670	2.3680	41.2%	
22	1708151-42MD	1.0050	6.7030	5.6980	3.3560	2.3510	41.3%	0.1%

8/16/17  
DM

### Remote Lab Total Solids Logbook

Lab Technician(s): CC Batch: F708405 Date: 8/14/17 Page 3 of 4  
 Thermometer #: 120405142 Oven #: 12 Actual temperature: 104.0 (Range 103-105°C)  
 Balance #<sup>1</sup>: 6 Start time: 10:46 <sup>8/15/17</sup> End time<sup>2</sup>: 1:00 <sup>8/16/17</sup> Time re-weighed<sup>3</sup>: 10:20  
 Client(s)/WO#: 1707771, 1708151

Sample ID	Pan #	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Notes
1707771-BG	N1	1.019	6.965	4.644	
1707771-BH	N2	0.995	6.390	2.566	} same sample
1707771-BI	N3	1.034	6.955	2.707	
1707771-BJ	N4	0.978	6.601	2.492	
1707771-BL	N5	0.985	6.360	3.209	
1707771-BM	N6	1.002	6.795	3.428	
1707771-BN	N7	0.999	6.544	2.226	
1707771-BO	N8	1.003	6.237	2.697	
1707771-BP	N9	<del>0.981</del> <sup>0.981</sup>	6.726	2.504	
1707771-BQ	N10	0.980	6.993	2.564	} same sample
1707771-BR	N11	0.993	6.824	2.595	
1707771-BS	N12	1.020	6.804	2.482	
1707771-BT	N13	1.037	6.844	2.394	
1707771-BU	N14	1.033	6.169	2.256	
1707771-BV	N15	0.999	6.104	2.503	} same sample
1707771-BW	N16	<del>0.998</del> <sup>0.998</sup>	6.926	2.599	
1707771-BX	N17	0.976	6.375	2.558	
1707771-BZ	N18	1.005	6.980	2.309	
1708151-22	N19	0.992	6.913	2.389	
F708405-DUP1	N20	0.983	6.638	2.324	SRC: 1708151-22
1708151-42	N21	0.999	6.743	3.367	
F708405-DUP2	N22	1.005	6.703	3.356	SRC: 1708151-42
CC 8/14/17					

Comments:

<sup>1</sup>The same balance must be used to weight samples before and after ovening.

<sup>2</sup>Samples must be ovened over 12 hours.

<sup>3</sup>Samples must be re-weighed within 30 minutes of oven cool down.

**Failing Data Report -**

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
-----------	----------	--------	-----	------------	---------------	------------	-------	--------	----------	----------	-----	-----------	----------	---------	-----------


  
 Analyst Reviewed By \_\_\_\_\_ Date 8/16/17


  
 Peer Reviewed By \_\_\_\_\_ Date 8/16/17



**PREPARATION BENCH SHEET**

F708405

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EFGS-019 Solids Analysis**

**Prepared: 8/14/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (g)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708405-DUP1	Duplicate [1708151-22]	5	5					
F708405-DUP2	Duplicate [1708151-42]	5	5					

Standard ID(s):    Description:

Expiration:

**PREPARATION BENCH SHEET**

F708405

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EFGS-019 Solids Analysis**

**Prepared: 8/14/2017**

Lab Number	Sample ID	Initial (g)	Final (g)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1707771-BG	W-14-INTA_072517_SED_01-03	5	5	-	-	-		
1707771-BH	W-27-A_072517_SED_00-01_R1	5	5	-	-	-		
1707771-BI	W-27-A_072517_SED_00-01_R2	5	5	-	-	-		
1707771-BJ	W-27-A_072517_SED_00-01_R3	5	5	-	-	-		
1707771-BL	W-27-INTA_072517_SED_03-05	5	5	-	-	-		
1707771-BM	W-27-INTA_072517_SED_05-10	5	5	-	-	-		
1707771-BN	W-63-INT_072517_SED_00-01	5	5	-	-	-		
1707771-BO	W-63-INT_072517_SED_01-03	5	5	-	-	-		
1707771-BP	W-MM-01_072517_SED_00-01	5	5	-	-	-		
1707771-BQ	W-MM-01_072517_SED_01-03_R1	5	5	-	-	-		
1707771-BR	W-MM-01_072517_SED_01-03_R2	5	5	-	-	-		
1707771-BS	W-MM-01_072517_SED_01-03_R3	5	5	-	-	-		
1707771-BT	W-MM-02_072517_SED_00-01	5	5	-	-	-		
1707771-BU	W-MM-02_072517_SED_01-03	5	5	-	-	-		
1707771-BV	W-MM-06_072517_SED_03-05_R1	5	5	-	-	-		
1707771-BW	W-MM-06_072517_SED_03-05_R2	5	5	-	-	-		
1707771-BX	W-MM-06_072517_SED_03-05_R3	5	5	-	-	-		
1707771-BZ	W-MM-07_072517_SED_00-01	5	5	-	-	-		
1708151-22	W-MM-09_080117_SED_01-03	5	5	QC	-	-	MS/MSD	

PREPARATION BENCH SHEET

F708405

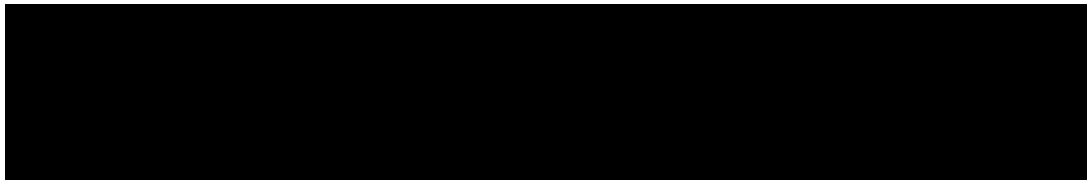
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 8/14/2017

1708151-42	W-104-INTB_080317_SED_05-10	5	5	QC	-	-	MS/MSD	
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### Peer Review Checklist for Total Solids and Density (SOP5133)

Analyst: CC

Date: 8/16/17

Reviewer: DM

Date: 8-16-17

WO #: 1707771, 1708151

Batch #: F708405

Dataset ID: TS170814-3

Reviewer Initials: DM

#### General Comments/Re-run requirements:

Select	SOP	Method	Matrix
<input checked="" type="checkbox"/>	SOP5133	TS	S/T
<input type="checkbox"/>	SOP5133	Density	Liquids

Initials	SOP Date	
<u>CC</u>	<u>12/2016</u>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Reviewer Initials: DM

#### 1. Total Solids

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
- B. Does the batch include 1 MD/MT per 10 client samples?
- C. MD RPD/MT RSD ≤ 10%
- D. Are qualifiers, O-04 and O-09, included for samples analyzed out of hold time?

<input type="checkbox"/> Density Only - NA this section			
<input checked="" type="checkbox"/> DONE			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>

#### 2. Density

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
  - (v) Volume (if other than 1 mL): \_\_\_\_\_ Can the calculated result be reproduced?

<input checked="" type="checkbox"/> Total Solids Only - NA this section			
<input type="checkbox"/> DONE			<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input type="checkbox"/>



Frontier Global Sciences

**Total Solids Dataset Cover Page**

**Dataset ID:** TS170814-4  
**Batch ID:** F708406  
**Work Order(s):** 1707771, 1708151, 1708154

**Analyst:** CLC  
**Prep. Date:** 8/14/2017

**Analytical Issues/Explanations:**

QUALITY ASSURANCE  
PEER-REVIEWED

INITIALS: RL 8/17/17

Preparation Date: Aug 14, 2017

Batch #: 4  
Batch ID: F708406

Analyst: CLC

Work Order(s): 1707771, 1708151, 1708154

Pan ID	Sample ID	Pan Wt (g)	Pan + Sample Wet (g)	Wet Sample (g)	Pan + Sample Dry (g)	Dry Sample (g)	% TS	Notes
1	1707771-CA	0.9990	6.6720	5.6730	2.3310	1.3320	23.5%	
2	1707771-CB	0.9740	6.2240	5.2500	2.1930	1.2190	23.2%	
3	1707771-CC	0.9740	6.5540	5.5800	2.2300	1.2560	22.5%	
4	1707771-CE	0.9820	6.8640	5.8820	2.5140	1.5320	26.0%	
5	1707771-CF	1.0190	6.9880	5.9690	2.3610	1.3420	22.5%	
6	1707771-CG	1.0370	6.8580	5.8210	2.4120	1.3750	23.6%	
7	1707771-CH	1.0450	6.7280	5.6830	2.4700	1.4250	25.1%	
8	1707771-CI	0.9960	6.3270	5.3310	2.1910	1.1950	22.4%	
9	1707771-CJ	0.9970	6.1580	5.1610	2.6860	1.6890	32.7%	
10	1707771-CK	1.0250	6.8860	5.8610	2.6160	1.5910	27.1%	
11	1707771-CL	1.0750	6.6910	5.6160	3.6110	2.5360	45.2%	
12	1707771-CM	1.0180	6.3300	5.3120	2.4040	1.3860	26.1%	
13	1707771-CN	1.0390	6.8250	5.7860	2.6200	1.5810	27.3%	
14	1707771-CO	0.9860	6.2860	5.3000	2.6350	1.6490	31.1%	
15	1707771-CP	1.0710	6.0790	5.0080	2.3990	1.3280	26.5%	
16	1707771-CQ	1.0280	6.6430	5.6150	2.8120	1.7840	31.8%	
17	1707771-CR	1.0200	6.1110	5.0910	2.6100	1.5900	31.2%	
18	1707771-CS	0.9840	6.6650	5.6810	2.8100	1.8260	32.1%	
19	1708151-61	0.9780	6.2750	5.2970	2.9420	1.9640	37.1%	
20	1708151-61MD	1.0320	6.6010	5.5690	3.1440	2.1120	37.9%	2.3%
21	1708154-02	1.0680	6.3200	5.2520	2.3310	1.2630	24.0%	
22	1708154-02MD	1.0300	6.6720	5.6420	2.4230	1.3930	24.7%	2.6%

PREPARATION BENCH SHEET

F708406

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 8/14/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (g)	Spike1 ID	$\mu$ l Spike1	Spike2 ID	$\mu$ l Spike2	Extraction Comments
F708406-DUP1	Duplicate [1708151-61]	5	5					
F708406-DUP2	Duplicate [1708154-02]	5	5					

Standard ID(s):

Description:

Expiration:

**PREPARATION BENCH SHEET**

F708406

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EFGS-019 Solids Analysis**

**Prepared: 8/14/2017**

Lab Number	Sample ID	Initial (g)	Final (g)	Sample Comments	Analysis Comments
1707771-CA	W-MM-07_072517_SED_01-03_R1	5	5	No	
1707771-CB	W-MM-07_072517_SED_01-03_R2	5	5	No	
1707771-CC	W-MM-07_072517_SED_01-03_R3	5	5	No	
1707771-CE	W-MM-17_072517_SED_01-03	5	5	No	
1707771-CF	W-MM-18_072517_SED_00-01	5	5	No	
1707771-CG	W-MM-18_072517_SED_01-03	5	5	No	
1707771-CH	W-MM-18_072517_SED_03-05_R1	5	5	No	
1707771-CI	W-MM-18_072517_SED_03-05_R2	5	5	No	
1707771-CJ	W-MM-18_072517_SED_03-05_R3	5	5	No	
1707771-CK	W-MM-18_072517_SED_05-10	5	5	No	
1707771-CL	W-MM-19_072517_SED_03-05	5	5	No	
1707771-CM	W-MM-19_072517_SED_05-10_R1	5	5	No	
1707771-CN	W-MM-19_072517_SED_05-10_R2	5	5	No	
1707771-CO	W-MM-19_072517_SED_05-10_R3	5	5	No	
1707771-CP	W-MM-22_072517_SED_03-05	5	5	No	
1707771-CQ	W-MM-22_072517_SED_05-10_R1	5	5	No	
1707771-CR	W-MM-22_072517_SED_05-10_R2	5	5	No	
1707771-CS	W-MM-22_072517_SED_05-10_R3	5	5	No	
1708151-61	W-MM-20_080317_SED_03-05	5	5	No	
1708154-02	W-21-UM-South_080117_SED_01-03	5	5	No	

**PREPARATION BENCH SHEET**

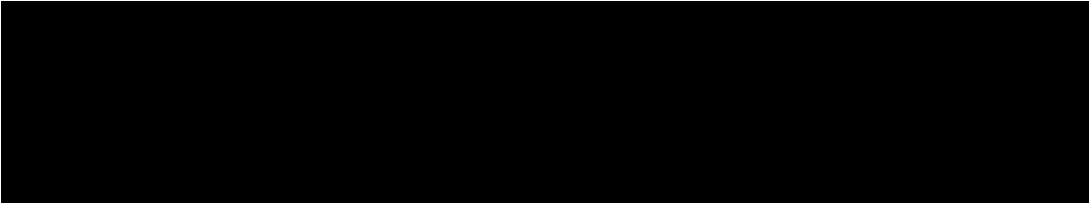
F708406

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EFGS-019 Solids Analysis**

**Prepared: 8/14/2017**



# Failing Data Report -

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
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Analyst Reviewed By      8/17/17  
Date

                          8/17/17  
Peer Reviewed By      Date

Remote Lab Total Solids Logbook

Lab Technician(s): CLC Batch: F708406 Date: 8/14/17 Page 4 of 4

Thermometer #: 12040514270 Oven #: 12 Actual temperature: 104.9 (Range 103-105°C)

Balance #<sup>1</sup>: 6 Start time: 1310<sup>8/16/17</sup> End time<sup>2</sup>: 950<sup>8/17/17</sup> Time re-weighed<sup>3</sup>: 1015

Client(s)/WO#: 1707771, 1708151, 1708154

Sample ID	Pan #	Pan (g) <i>CLC 8/14/17</i>	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Notes
1707771-CA	01	1.0999	6.672	2.331	} same sample
1707771-CB	02	0.974	6.224	2.193	
1707771-CC	03	0.974	6.554	2.230	
1707771-CE	04	0.982	6.864	2.514	
1707771-CF	05	1.019	6.988	2.361	
1707771-CG	06	1.037	6.858	2.412	} same sample
<i>CLC 8/14/17</i> 1707771-CH	07	1.045	6.728	2.470	
1707771-CI	08	0.996	6.327	2.191	
1707771-CJ	09	0.997	6.158	2.686	
1707771-CK	010	1.025	6.886	2.616	
1707771-CL	011	1.075	6.691	3.611	} same sample
1707771-CM	012	1.018	6.330	2.404	
1707771-CN	013	1.039	6.825	2.620	
1707771-CO	014	0.986	6.286	2.635	
1707771-CP	015	1.071	6.079	2.399	
1707771-CQ	016	1.028	6.643	2.812	} same sample
1707771-CR	017	1.020	6.111	2.610	
1707771-CS	018	0.984	6.665	2.810	
1708151-61	019	0.978	6.275	2.942	
<i>CLC 8/14/17</i> F708406-DUP1	020	1.032	6.601	3.144	SRC-1708151-61
1708154-02	021	1.068	6.320	2.331	SRC-1708154-02
F708406-DUP2	022	1.030	6.672	2.423	
			<i>CLC 8/14/17</i>		

Comments:

<sup>1</sup>The same balance must be used to weight samples before and after ovening.

<sup>2</sup>Samples must be ovened over 12 hours.

<sup>3</sup>Samples must be re-weighed within 30 minutes of oven cool down.



Peer Review Checklist for Total Solids and Density (SOP5133)

Analyst: CLC Date: 8/17/17 Reviewer: PL Date: 8/17/17

WO #: 1707771, 1708151, 1708154 Batch #: F708406 Dataset ID: TS170814-4

Reviewer Initials: PL

General Comments/Re-run requirements:

[Empty box for general comments]

Select	SOP	Method	Matrix
<input checked="" type="checkbox"/>	SOP5133	TS	S/T
<input type="checkbox"/>	SOP5133	Density	Liquids

Initials: CLC SOP Date: 12/20/16

Reviewer Initials: PL

1. Total Solids

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
- B. Does the batch include 1 MD/MT per 10 client samples?
- C. MD RPD/MT RSD ≤ 10%
- D. Are qualifiers, O-04 and O-09, included for samples analyzed out of hold time?

Density Only - NA this section

<input checked="" type="checkbox"/> DONE		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>

2. Density

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
  - (v) Volume (if other than 1 mL): \_\_\_\_\_ Can the calculated result be reproduced?

Total Solids Only - NA this section

<input type="checkbox"/> DONE		<input checked="" type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>



Frontier Global Sciences

**Total Solids Dataset Cover Page**

**Dataset ID:** TS170816-2  
**Batch ID:** F708424  
**Work Order(s):** 1708151, 1708086

**Analyst:** CLC  
**Prep. Date:** 8/16/2017

**Analytical Issues/Explanations:**

QUALITY ASSURANCE  
PEER - REVIEWED  
INITIALS: DM 8/22/17

PREPARATION BENCH SHEET

F708424

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 8/16/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (g)	Spike1 ID	$\mu$ l Spike1	Spike2 ID	$\mu$ l Spike2	Extraction Comments
F708424-DUP1	Duplicate [1708151-08]	5	5					
F708424-DUP2	Duplicate [1708151-10]	5	5					

Standard ID(s): Description:

Expiration:

**PREPARATION BENCH SHEET**

F708424

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EFGS-019 Solids Analysis**

**Prepared: 8/16/2017**

Lab Number	Sample ID	Initial (g)	Final (g)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708086-04	AOI_21_080117_SS_N06_DUP	5	5	-	-	-		
1708086-05	AOI_20_080117_SS_N08	5	5	-	-	-		
1708086-06	AOI_1_OR_080117_SS_N08	5	5	-	-	-		
1708151-01	W-100-A_080117_SED_00-01	5	5	-	-	-		
1708151-02	W-100-A_080117_SED_01-03	5	5	-	-	-		
1708151-03	W-101-INTA_080117_SED_00-01	5	5	-	-	-		
1708151-04	W-101-INTA_080117_SED_01-03_R1	5	5	-	-	-		
1708151-05	W-101-INTA_080117_SED_01-03_R2	5	5	-	-	-		
1708151-06	W-101-INTA_080117_SED_01-03_R3	5	5	-	-	-		
1708151-07	W-104-B_080117_SED_00-01	5	5	-	-	-		
1708151-08	W-104-B_080117_SED_01-03	5	5	-	-	-	Original jar broken, transferred sample	
1708151-09	W-104-INTB_080117_SED_00-01	5	5	-	-	-	Original jar broken, transferred sample	
1708151-10	W-104-INTB_080117_SED_01-03	5	5	-	-	-	Original jar broken, transferred sample	
1708151-11	W-106-A_080117_SED_00-01	5	5	-	-	-		
1708151-12	W-106-A_080117_SED_01-03	5	5	-	-	-		
1708151-13	W-107-A_080117_SED_00-01	5	5	-	-	-		
1708151-14	W-107-A_080117_SED_01-03	5	5	-	-	-		
1708151-15	W-109-A_080117_SED_00-01	5	5	-	-	-		
1708151-16	W-109-A_080117_SED_01-03	5	5	-	-	-		

PREPARATION BENCH SHEET

F708424

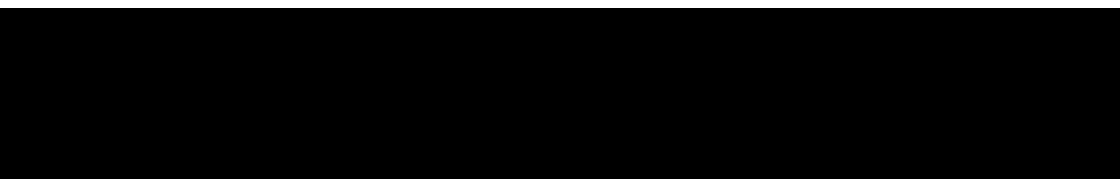
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 8/16/2017

1708151-20	W-110-A_080117_SED_01-03	5	5	-	-	-		
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**Failing Data Report -**

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
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Correll JG 8/18/17  
 Analyst Reviewed By Date

Dan Maxam 8/22/17  
 Peer Reviewed By Date

Preparation Date: Aug 16, 2017

Batch #: 2

Analyst: CLC

Batch ID: F708424

Work Order(s): 1708151, 1708086

Pan ID	Sample ID	Pan Wt (g)	Pan + Sample Wet (g)	Wet Sample (g)	Pan + Sample Dry (g)	Dry Sample (g)	% TS	Notes
1	1708086-04	1.0510	6.6650	5.6140	1.8370	0.7860	14.0%	
2	1708086-05	1.0510	6.5980	5.5470	1.8050	0.7540	13.6%	
3	1708086-06	0.9780	6.7200	5.7420	1.6300	0.6520	11.4%	
4	1708151-01	1.0230	6.5880	5.5650	2.6820	1.6590	29.8%	
5	1708151-02	1.0180	6.5740	5.5560	2.9180	1.9000	34.2%	
6	1708151-03	1.0200	6.1780	5.1580	2.8140	1.7940	34.8%	
7	1708151-04	1.0320	6.9090	5.8770	3.2390	2.2070	37.6%	
8	1708151-05	1.0110	6.6870	5.6760	3.1750	2.1640	38.1%	
9	1708151-06	0.9840	6.5290	5.5450	3.0050	2.0210	36.4%	
10	1708151-07	1.0420	6.0730	5.0310	4.2110	3.1690	63.0%	
11	1708151-08	1.0160	6.7940	5.7780	4.1210	3.1050	53.7%	
12	1708151-08MD	1.0260	6.2850	5.2590	4.0030	2.9770	56.6%	5.2%
13	1708151-09	1.0070	6.8010	5.7940	3.0250	2.0180	34.8%	
14	1708151-10	0.9950	6.0770	5.0820	2.7690	1.7740	34.9%	
15	1708151-10MD	0.9810	6.7390	5.7580	2.9660	1.9850	34.5%	1.3%
16	1708151-11	0.9960	6.0240	5.0280	2.4740	1.4780	29.4%	
17	1708151-12	1.0260	6.0290	5.0030	2.5480	1.5220	30.4%	
18	1708151-13	1.0270	6.4060	5.3790	2.9940	1.9670	36.6%	
19	1708151-14	0.9870	6.7800	5.7930	3.4880	2.5010	43.2%	
20	1708151-15	1.0080	6.6860	5.6780	2.3510	1.3430	23.7%	
21	1708151-16	1.0220	6.3820	5.3600	2.6270	1.6050	29.9%	
22	1708151-20	0.9830	6.9950	6.0120	2.4510	1.4680	24.4%	

Remote Lab Total Solids Logbook

Lab Technician(s): CC Batch: F708424 Date: 8/16/17 Page 2 of 3  
 Thermometer #: 110404414 Oven #: 12 Actual temperature: 104.2 (Range 103-105°C)  
 Balance #<sup>1</sup>: 6 Start time: 12:03<sup>8/17/17</sup> End time<sup>2</sup>: 11:25<sup>8/18/17</sup> Time re-weighed<sup>3</sup>: 11:45<sup>8/18/17</sup>  
 Client(s)/WO#: 1708151, 1708086

Sample ID	Pan #	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Notes
1708086-04	Q1	1.051	6.665	1.837	
1708086-05	Q2	1.051	6.598	1.805	
1708086-06	Q3	0.978	<del>6.70</del> <sup>6.720</sup>	1.630	
1708151-01	Q4	1.023	6.588	2.682	
1708151-02	Q5	1.018	6.574	2.918	
1708151-03	Q6	1.020	6.178	2.814	
1708151-04	Q7	1.032	6.909	3.239	} same sample
1708151-05	Q8	1.011	6.687	3.175	
1708151-06	Q9	0.984	6.529	3.005	
1708151-07	Q10	1.042	6.073	4.211	
1708151-08	Q11	1.016	6.794	4.121	
F708424-DUP1	Q12	1.026	6.285	4.003	SRC: 1708151-08
1708151-09	Q13	1.007	6.801	3.025	cap loose. some liquid leaked out.
1708151-10	Q14	0.995	6.077	2.769	
F708424-DUP2	Q15	0.981	6.739	2.966	SRC: 1708151-10
1708151-11	Q16	0.996	6.024	2.474	
1708151-12	Q17	1.026	6.029	2.548	
1708151-13	Q18	1.027	6.406	2.994	
1708151-14	Q19	0.987	6.780	3.488	Crack in Jar
1708151-15	Q20	1.008	6.686	2.351	
1708151-16	Q21	1.022	6.382	2.627	
1708151- <del>17</del> <sup>20</sup>	Q22	0.983	6.995	2.451	

Comments:

Reviewed  
8/18/17 DM

<sup>1</sup>The same balance must be used to weight samples before and after ovening.

<sup>2</sup>Samples must be ovened over 12 hours.

<sup>3</sup>Samples must be re-weighed within 30 minutes of oven cool down.



Analyst: CC

Date: 8/18/17

Reviewer: DM

Date: 8/22/17

WO #: 1708151, 1708086

Batch #: F708424

Dataset ID: TS170816-2

Reviewer Initials: DM

General Comments/Re-run requirements:

[Empty box for general comments]

Select	SOP	Method	Matrix
<input checked="" type="checkbox"/>	SOP5133	TS	S/T
<input type="checkbox"/>	SOP5133	Density	Liquids

Initials	SOP Date
<u>CC</u>	<u>8/22/17</u>
<input type="checkbox"/>	<input type="checkbox"/>

Reviewer Initials: DM

1. Total Solids

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
- B. Does the batch include 1 MD/MT per 10 client samples?
- C. MD RPD/MT RSD ≤ 10%
- D. Are qualifiers, O-04 and O-09, included for samples analyzed out of hold time?

<input type="checkbox"/> Density Only - NA this section			
<input checked="" type="checkbox"/> DONE			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>

2. Density

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
  - (v) Volume (if other than 1 mL): \_\_\_\_\_ . Can the calculated result be reproduced?

<input checked="" type="checkbox"/> Total Solids Only - NA this section			
<input type="checkbox"/> DONE			<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input type="checkbox"/>



Frontier Global Sciences

**Total Solids Dataset Cover Page**

**Dataset ID:** TS170816-3  
**Batch ID:** F708447  
**Work Order(s):** 1707771, 1708151

**Analyst:** CLC  
**Prep. Date:** 8/16/2017

**Analytical Issues/Explanations:**

QUALITY ASSURANCE  
PEER - REVIEWED  
INITIALS: DM 8/22/17

PREPARATION BENCH SHEET

F708447

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 8/16/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (g)	Spike1 ID	$\mu$ l Spike1	Spike2 ID	$\mu$ l Spike2	Extraction Comments
F708447-DUP1	Duplicate [1708151-26]	5	5					
F708447-DUP2	Duplicate [1708151-35]	5	5					

Standard ID(s):      Description:

Expiration:

**PREPARATION BENCH SHEET**

F708447

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EFGS-019 Solids Analysis**

**Prepared: 8/16/2017**

Lab Number	Sample ID	Initial (g)	Final (g)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1707771-01	OR-01-01_072417_SED_00-01_R1	5	5	-	-	-		
1707771-02	OR-01-01_072417_SED_00-01_R2	5	5	-	-	-		
1707771-03	OR-01-01_072417_SED_00-01_R3	5	5	-	-	-		
1707771-09	OR-01-05_072417_SED_00-01_R1	5	5	-	-	-		
1707771-10	OR-01-05_072417_SED_00-01_R2	5	5	-	-	-		
1707771-11	OR-01-05_072417_SED_00-01_R3	5	5	-	-	-		
1708151-17	W-110-A_080117_SED_00-01_R1	5	5	-	-	-		
1708151-18	W-110-A_080117_SED_00-01_R2	5	5	-	-	-		
1708151-19	W-110-A_080117_SED_00-01_R3	5	5	-	-	-		
1708151-21	W-MM-09_080117_SED_00-01	5	5	-	-	-		
1708151-23	W-MM-10_080117_SED_00-01	5	5	-	-	-		
1708151-24	W-MM-10_080117_SED_01-03	5	5	-	-	-		
1708151-25	W-MM-15_080117_SED_00-01	5	5	-	-	-		
1708151-26	W-MM-15_080117_SED_01-03	5	5	-	-	-		
1708151-27	W-MM-16_080117_SED_00-01	5	5	-	-	-		
1708151-28	W-MM-16_080117_SED_01-03	5	5	-	-	-		
1708151-29	W-MM-20_080117_SED_00-01	5	5	-	-	-		
1708151-30	W-MM-20_080117_SED_01-03	5	5	-	-	-	Original jar broken, transferred sample	
1708151-31	W-MM-21_080117_SED_00-01	5	5	-	-	-		

PREPARATION BENCH SHEET

F708447

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 8/16/2017

1708151-35	W-101-INTA_080317_SED_03-05	5	5	-	-	-		
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# Failing Data Report -

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
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Courtney Giff 8/18/17  
Analyst Reviewed By Date

Don Maxem 8/22/17  
Peer Reviewed By Date

Preparation Date: Aug 16, 2017

Batch #: 3

Analyst: CLC

Batch ID: F708447

Work Order(s): 1707771, 1708151

Pan ID	Sample ID	Pan Wt (g)	Pan + Sample Wet (g)	Wet Sample (g)	Pan + Sample Dry (g)	Dry Sample (g)	% TS	Notes
1	1707771-01	1.0050	6.2120	5.2070	2.5880	1.5830	30.4%	
2	1707771-02	1.0050	6.2120	5.2070	2.5880	1.5830	30.4%	
3	1707771-03	1.0050	6.2120	5.2070	2.5880	1.5830	30.4%	
4	1707771-09	0.9950	6.9850	5.9900	3.4970	2.5020	41.8%	
5	1707771-10	0.9950	6.9850	5.9900	3.4970	2.5020	41.8%	
6	1707771-11	0.9950	6.9850	5.9900	3.4970	2.5020	41.8%	
7	1708151-17	1.0570	6.2150	5.1580	2.2700	1.2130	23.5%	
8	1708151-18	0.9970	6.7350	5.7380	2.3710	1.3740	23.9%	
9	1708151-19	1.0380	6.2060	5.1680	2.1970	1.1590	22.4%	
10	1708151-21	1.0310	6.0330	5.0020	2.3180	1.2870	25.7%	
11	1708151-23	1.0070	6.4710	5.4640	1.7830	0.7760	14.2%	
12	1708151-24	1.0150	6.0320	5.0170	1.7940	0.7790	15.5%	
13	1708151-25	1.0180	6.2420	5.2240	2.3250	1.3070	25.0%	
14	1708151-26	1.0210	6.3640	5.3430	2.4170	1.3960	26.1%	
15	1708151-26MD	1.0180	6.7290	5.7110	2.3200	1.3020	22.8%	13.6%
16	1708151-27	0.9930	6.0840	5.0910	2.0130	1.0200	20.0%	
17	1708151-28	1.0030	6.6180	5.6150	2.4640	1.4610	26.0%	
18	1708151-29	1.0120	6.9990	5.9870	3.1470	2.1350	35.7%	
19	1708151-30	1.0050	6.4350	5.4300	2.9720	1.9670	36.2%	
20	1708151-31	1.0140	6.5350	5.5210	2.6730	1.6590	30.0%	
21	1708151-35	1.0160	6.1280	5.1120	3.1110	2.0950	41.0%	
22	1708151-35MD	1.0270	6.8210	5.7940	3.4240	2.3970	41.4%	0.9%

### Remote Lab Total Solids Logbook

Lab Technician(s): LVC Batch: F708447 Date: 8/16/17 Page 3 of 3  
 Thermometer #: 120405142<sup>TS</sup> Oven #: 12 Actual temperature: 106.2 (Range 103-105°C)  
 Balance #<sup>1</sup>: 6 Start time: 1203<sup>8/17/17</sup> End time<sup>2</sup>: 1412<sup>25</sup><sup>8/18/17</sup> Time re-weighed<sup>3</sup>: 1245  
 Client(s)/WO#: 1707771, 1708151

Sample ID	Pan #	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Notes
1707771-01	R1	1.005	6.212	2.588	} same sample (only weighed out once)
1707771-02	R2	1.005	6.212	2.588	
1707771-03	R3	1.005	6.212	2.588	
1707771-09	R4	0.995	6.985	3.497	} same sample (only weighed out once)
1707771-10	R5	0.995	6.985	3.497	
1707771-11	R6	0.995	6.985	3.497	
1708151-17	R7	1.057	6.215	2.270	} same sample
1708151-18	R8	0.997	6.735	2.371	
1708151-19	R9	1.038	6.206	2.197	
1708151-21	R10	1.031	6.033	2.318	
1708151-23	R11	1.007	6.471	1.783	
1708151-24	R12	1.015	6.082	1.794	
1708151-25	R13	1.018	6.242	2.325	
1708151-26	R14	1.021	6.364	2.417	
F708447-DUP1	R15	1.018	6.729	2.320	SPL: 1708151-26
1708151-27	R16	0.993	6.084	2.013	
1708151-28	R17	<del>0.998</del> <sup>1.005</sup>	6.618	2.464	
1708151-29	R18	1.012	6.999	3.147	
1708151-30	R19	1.005	6.435	2.972	
1708151-31	R20	1.014	6.529 <sup>35</sup>	2.673	
1708151-35	R21	1.016	6.128	3.111	
F708447-DUP2	R22	1.027	6.821	3.424	SPL: 1708151-35

Comments:

LVC 8/16/17

Reviewed  
8/18/17 DM

<sup>1</sup>The same balance must be used to weight samples before and after ovening.  
<sup>2</sup>Samples must be ovened over 12 hours.  
<sup>3</sup>Samples must be re-weighed within 30 minutes of oven cool down.



### Peer Review Checklist for Total Solids and Density (SOP5133)

Analyst: CLC Date: 8/18/17 Reviewer: DM Date: 8/22/17

WO #: 1707271, 1708151 Batch #: F708447 Dataset ID: TS170816-3

Reviewer Initials: DM

**General Comments/Re-run requirements:**

Select	SOP	Method	Matrix
<input checked="" type="checkbox"/>	SOP5133	TS	S/T
<input type="checkbox"/>	SOP5133	Density	Liquids

Initials	SOP Date
<u>CLC</u>	<u>12/20/16</u>
<input type="checkbox"/>	<input type="checkbox"/>

Reviewer Initials: DM

**1. Total Solids**

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
- B. Does the batch include 1 MD/MT per 10 client samples?
- C. MD RPD/MT RSD ≤ 10%
- D. Are qualifiers, O-04 and O-09, included for samples analyzed out of hold time?

<input type="checkbox"/> Density Only - NA this section			
<input checked="" type="checkbox"/> DONE			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> PASS	<input checked="" type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>

**2. Density**

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
  - (v) Volume (if other than 1 mL): \_\_\_\_\_ . Can the calculated result be reproduced?

<input checked="" type="checkbox"/> Total Solids Only - NA this section			
<input type="checkbox"/> DONE			<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input type="checkbox"/>



Frontier Global Sciences

**Total Solids Dataset Cover Page**

**Dataset ID:** TS170816-6  
**Batch ID:** F708448  
**Work Order(s):** 1708151

**Analyst:** CB/CLC  
**Prep. Date:** 8/16/2017

**Analytical Issues/Explanations:**

QUALITY ASSURANCE  
PEER - REVIEWED  
INITIALS: DM 8/22/17

### Peer Review Checklist for Total Solids and Density (SOP5133)

Analyst: CLL/CB

Date: 8/18/17

Reviewer: DM

Date: 8/22/17

WO #: 1708161

Batch #: F708448

Dataset ID: TS170816-6

Reviewer Initials: DM

**General Comments/Re-run requirements:**

Select	SOP	Method	Matrix
<input checked="" type="checkbox"/>	SOP5133	TS	S/T
<input type="checkbox"/>	SOP5133	Density	Liquids

Initials	SOP Date	
<u>CLL</u>	<u>12/20/16</u>	<input checked="" type="checkbox"/>
<u>CB</u>	<u>7/19/17</u>	<input checked="" type="checkbox"/>

Reviewer Initials: DM

**1. Total Solids**

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
- B. Does the batch include 1 MD/MT per 10 client samples?
- C. MD RPD/MT RSD ≤ 10%
- D. Are qualifiers, O-04 and O-09, included for samples analyzed out of hold time?

<input type="checkbox"/> Density Only - NA this section			
<input checked="" type="checkbox"/> DONE			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>

**2. Density**

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
  - (v) Volume (if other than 1 mL): \_\_\_\_\_ . Can the calculated result be reproduced?

<input checked="" type="checkbox"/> Total Solids Only - NA this section			
<input checked="" type="checkbox"/> DONE			<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input type="checkbox"/>

**Failing Data Report -**

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
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Cowley EMP 8/18/17  
Analyst Reviewed By Date

Don Moxam 8/22/17  
Peer Reviewed By Date

PREPARATION BENCH SHEET

F708448

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 8/16/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (g)	Spike1 ID	$\mu$ l Spike1	Spike2 ID	$\mu$ l Spike2	Extraction Comments
F708448-DUP1	Duplicate [1708151-45]	5	5					
F708448-DUP2	Duplicate [1708151-53]	5	5					

Standard ID(s):      Description:

Expiration:

**PREPARATION BENCH SHEET**

F708448

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EFGS-019 Solids Analysis**

**Prepared: 8/16/2017**

Lab Number	Sample ID	Initial (g)	Final (g)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-32	W-MM-21_080117_SED_01-03	5	5	-	-	-		
1708151-33	W-100-A_080317_SED_03-05	5	5	-	-	-		
1708151-34	W-100-A_080317_SED_05-10	5	5	-	-	-		
1708151-36	W-101-INTA_080317_SED_05-10	5	5	-	-	-		
1708151-37	W-104-B_080317_SED_03-05_R1	5	5	-	-	-		
1708151-38	W-104-B_080317_SED_03-05_R2	5	5	-	-	-		
1708151-39	W-104-B_080317_SED_03-05_R3	5	5	-	-	-		
1708151-40	W-104-B_080317_SED_05-10	5	5	-	-	-		
1708151-41	W-104-INTB_080317_SED_03-05	5	5	-	-	-		
1708151-43	W-106-A_080317_SED_03-05	5	5	-	-	-		
1708151-44	W-106-A_080317_SED_05-10	5	5	-	-	-		
1708151-45	W-107-A_080317_SED_03-05	5	5	-	-	-		
1708151-46	W-107-A_080317_SED_05-10	5	5	-	-	-		
1708151-47	W-109-A_080317_SED_03-05	5	5	-	-	-		
1708151-52	W-110-A_080317_SED_05-10	5	5	-	-	-		
1708151-53	W-MM-09_080317_SED_03-05	5	5	-	-	-		
1708438-01	08092017-TRIM	5	5	-	-	-		
1708438-02	08092017-ZIM	5	5	-	-	-		
1708438-03	08092017-MF	5	5	-	-	-		

PREPARATION BENCH SHEET

F708448

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 8/16/2017

1708438-04	08092017-CAR	5	5	-	-	-		
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Preparation Date: Aug 16, 2017

Batch #: 6

Analyst: CB/CLC

Batch ID: F708448

Work Order(s): 1708151

Pan ID	Sample ID	Pan Wt (g)	Pan + Sample Wet (g)	Wet Sample (g)	Pan + Sample Dry (g)	Dry Sample (g)	% TS	Notes
1	1708151-32	1.0010	6.6270	5.6260	2.7320	1.7310	30.8%	
2	1708151-33	0.9930	6.7860	5.7930	2.6800	1.6870	29.1%	
3	1708151-34	1.0130	6.1280	5.1150	2.2900	1.2770	25.0%	
4	1708151-36	1.0120	6.8250	5.8130	3.2770	2.2650	39.0%	
5	1708151-37	1.0250	6.1100	5.0850	3.8430	2.8180	55.4%	
6	1708151-38	1.0270	6.0850	5.0580	3.7130	2.6860	53.1%	
7	1708151-39	1.0410	6.3300	5.2890	3.9560	2.9150	55.1%	
8	1708151-40	1.0150	6.6140	5.5990	3.9300	2.9150	52.1%	
9	1708151-41	1.0000	6.1330	5.1330	2.9380	1.9380	37.8%	
10	1708151-52	1.0020	6.5910	5.5890	4.9210	3.9190	70.1%	
11	1708151-44	0.9900	6.0800	5.0900	2.6040	1.6140	31.7%	
12	1708151-43	1.0300	6.4660	5.4360	2.8200	1.7900	32.9%	
13	1708151-45	1.0460	6.0690	5.0230	2.8750	1.8290	36.4%	
14	1708151-45MD	1.0170	6.2000	5.1830	2.8770	1.8600	35.9%	1.5%
15	1708151-46	1.0290	6.2120	5.1830	3.5370	2.5080	48.4%	
16	1708151-47	1.0450	6.3390	5.2940	2.5590	1.5140	28.6%	
17	1708438-01	1.0220	6.5490	5.5270	5.4210	4.3990	79.6%	
18	1708438-02	1.0440	6.2480	5.2040	5.0510	4.0070	77.0%	
19	1708438-03	1.0180	6.7790	5.7610	5.3730	4.3550	75.6%	
20	1708438-04	1.0070	6.3650	5.3580	5.1810	4.1740	77.9%	
21	1708151-53	1.0290	6.0500	5.0210	2.2710	1.2420	24.7%	
22	1708151-53MD	1.0250	6.6120	5.5870	2.4120	1.3870	24.8%	0.4%



Total Solids Logbook

Lab Technician(s): CB Mc Batch: F708448 Date: 8/16/17 Page 3 of 3  
 Thermometer #: 131206134 Oven #: 1 Actual temperature: 103.9 (Range 103-105°C)  
 Balance #<sup>1</sup>: 10 Start time: 16:10 <sup>8/17/17</sup> End time<sup>2</sup>: 9:50 <sup>8/18/17</sup> Time re-weighed<sup>3</sup>: 10:15  
 Client(s)/WO#: 1708151

Sample ID	Pan #	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Notes
1708151-32	C1	1.001	6.627	2.732	
1708151-33	C2	0.993	6.786	2.680	
1708151-34	C3	1.013	6.128	2.290	
1708151-36	C4	1.012	6.825	3.277	
1708151-37	C5	1.025	6.110	3.8413	} Same Sample
1708151-38	C6	1.027	6.085	3.713	
1708151-39	C7	1.041	6.330	3.956	
1708151-40	C8	1.015	6.614	3.930	
1708151-41	C9	1.000	6.133	2.938	
1708151-4252	C10	1.002	6.591	4.921	
1708151-4344	C11	0.990	6.080	2.604	
1708151-4443	C12	1.030	6.466	2.820	
1708151-45	C13	1.046	6.069	2.875	
F708448-DUP 1	C14	1.017	6.200	2.877	Source: 1708151-45
1708151-46	C15	1.029	6.212	3.537	
1708151-47	C16	1.045	6.339	2.559	
<del>1708438-01 1708151-48</del>	C17	1.022	6.549	5.421	
<del>1708438-02 1708151-49</del>	C18	1.044	6.248	5.051	
<del>1708438-03 1708151-50</del>	C19	1.018	6.779	5.373	
<del>1708438-04 1708151-51</del>	C20	1.007	6.365	5.181	
1708151-53	C21	1.029	6.050	2.271	
F708448-DUP 2	C22	1.025	6.612	2.412	Source: 1708151-53

CB 8/16/17  
 Comments:

<sup>1</sup>The same balance must be used to weight samples before and after ovening.

<sup>2</sup>Samples must be ovened over 12 hours.

<sup>3</sup>Samples must be re-weighed within 30 minutes of oven cool down.



# Frontier Global Sciences

## Total Solids Dataset Cover Page

**Dataset ID:** TS170817-1  
**Batch ID:** F708449  
**Work Order(s):** 1708151, 1708154, 1708155

**Analyst:** CLC  
**Prep. Date:** 8/17/2017

### Analytical Issues/Explanations:

<p>QUALITY ASSURANCE PEER - REVIEWED INITIALS: <u>Bc 8/23/17</u></p>
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Preparation Date: Aug 17, 2017

Batch #: 1

Analyst: CLC

Batch ID: F708449

Work Order(s): 1708151, 1708154, 1708155

Pan ID	Sample ID	Pan Wt (g)	Pan + Sample Wet (g)	Wet Sample (g)	Pan + Sample Dry (g)	Dry Sample (g)	% TS	Notes
1	1708151-54	1.0250	6.5510	5.5260	2.5770	1.5520	28.1%	
2	1708151-54MD	1.0360	6.4800	5.4440	2.5040	1.4680	27.0%	4.1%
3	1708151-55	1.0510	6.7470	5.6960	2.1270	1.0760	18.9%	
4	1708151-55MD	0.9910	6.6870	5.6960	2.0260	1.0350	18.2%	3.9%
5	1708151-56	1.0050	6.7250	5.7200	2.3620	1.3570	23.7%	
6	1708151-57	1.0140	6.3110	5.2970	2.5340	1.5200	28.7%	
7	1708151-58	1.0000	6.3490	5.3490	2.5500	1.5500	29.0%	
8	1708151-59	1.0030	6.1890	5.1860	2.6290	1.6260	31.4%	
9	1708151-60	1.0020	6.2390	5.2370	2.9070	1.9050	36.4%	
10	1708151-62	0.9980	6.0300	5.0320	3.1990	2.2010	43.7%	
11	1708151-63	1.0070	6.3260	5.3190	2.4020	1.3950	26.2%	
12	1708151-64	1.0150	6.9050	5.8900	2.5850	1.5700	26.7%	
13	1708154-01	1.0750	6.7020	5.6270	2.7480	1.6730	29.7%	
14	1708154-03	1.0330	6.4020	5.3690	2.5180	1.4850	27.7%	
15	1708154-04	1.0300	6.7060	5.6760	2.7110	1.6810	29.6%	
16	1708154-05	1.0550	6.5700	5.5150	2.5620	1.5070	27.3%	
17	1708154-06	0.9690	6.6240	5.6550	2.9840	2.0150	35.6%	
18	1708154-07	1.0220	6.6790	5.6570	2.7440	1.7220	30.4%	
19	1708154-08	1.0490	6.8450	5.7960	3.0010	1.9520	33.7%	
20	1708154-09	1.0410	6.0820	5.0410	3.1230	2.0820	41.3%	
21	1708154-10	1.0730	6.8440	5.7710	3.4400	2.3670	41.0%	
22	1708155-01	0.9890	6.4100	5.4210	3.0050	2.0160	37.2%	

Remote Lab Total Solids Logbook

Lab Technician(s): UC Batch: F708449 Date: 8/17/17 Page 1 of 2

Thermometer #: 1204014213 Oven #: 12 Actual temperature: 103.8 (Range 103-105°C)

Balance #<sup>1</sup>: 6 Start time: 12:45 End time<sup>2</sup>: 9:25 Time re-weighed<sup>3</sup>: 9:40

Client(s)/WO#: 1708151, 1708154, 1708155

Sample ID	Pan #	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Notes
1708151-54	S1	1.025	6.551	2.577	
F708449-DUP1	S2	1.036	6.480	2.504	SRC:1708151-54
1708151-55	S3	1.051	6.747	2.127	
F708449-DUP2	S4	1.0991	6.687	2.026	SRC:1708151-55
1708151-56	S5	1.005	6.725	2.362	
1708151-57	S6	1.014	6.311	2.534	
1708151-58	S7	1.000	6.349	2.550	
1708151-59	S8	1.003	6.189	2.629	
1708151-60	S9	1.002	6.239	2.907	
1708151-62	S10	0.998	6.030	3.199	
1708151-63	S11	1.007	6.326	2.402	
1708151-64	S12	1.015	6.905	2.585	
<sup>cc</sup> 8/17/17 <del>1708151-6</del> <sup>154-01</sup>	S13	1.075	6.702	2.748	
1708154-03	S14	1.033	6.402	2.518	} same sample
1708154-04	S15	1.030	6.706	2.711	
1708154-05	S16	1.055	6.570	2.562	
1708154-06	S17	0.969	6.624	2.984	hi & loose, some liquid leaked out
1708154-07	S18	1.022	6.679	2.744	
1708154-08	S19	1.049	6.845	3.001	
1708154-09	S20	1.041	6.082	3.123	
1708154-10	S21	1.073	6.844	3.440	
1708155-01	S22	0.989	6.410	3.005	

Comments:

UC 8/17/17

Reviewed  
8/18/17 DM

<sup>1</sup>The same balance must be used to weight samples before and after ovening.  
<sup>2</sup>Samples must be ovened over 12 hours.  
<sup>3</sup>Samples must be re-weighed within 30 minutes of oven cool down.

PREPARATION BENCH SHEET

F708449

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 8/17/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (g)	Spike1 ID	$\mu$ l Spike1	Spike2 ID	$\mu$ l Spike2	Extraction Comments
F708449-DUP1	Duplicate [1708151-54]	5	5					
F708449-DUP2	Duplicate [1708151-55]	5	5					

Standard ID(s): Description:

Expiration:

**PREPARATION BENCH SHEET**

F708449

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EFGS-019 Solids Analysis**

**Prepared: 8/17/2017**

Lab Number	Sample ID	Initial (g)	Final (g)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-54	W-MM-09_080317_SED_05-10	5	5	-	-	-		
1708151-55	W-MM-10_080317_SED_03-05	5	5	-	-	-		
1708151-56	W-MM-10_080317_SED_05-10	5	5	-	-	-		
1708151-57	W-MM-15_080317_SED_03-05	5	5	-	-	-		
1708151-58	W-MM-15_080317_SED_05-10	5	5	-	-	-		
1708151-59	W-MM-16_080317_SED_03-05	5	5	-	-	-		
1708151-60	W-MM-16_080317_SED_05-10	5	5	-	-	-		
1708151-62	W-MM-20_080317_SED_05-10	5	5	-	-	-		
1708151-63	W-MM-21_080317_SED_03-05	5	5	-	-	-		
1708151-64	W-MM-21_080317_SED_05-10	5	5	-	-	-		
1708154-01	W-21-UM-South_080117_SED_00-01	5	5	-	-	-		
1708154-03	W-63-Low_080117_SED_00-01_R1	5	5	-	-	-		
1708154-04	W-63-Low_080117_SED_00-01_R2	5	5	-	-	-		
1708154-05	W-63-Low_080117_SED_00-01_R3	5	5	-	-	-		
1708154-06	W-63-Low_080117_SED_01-03	5	5	-	-	-	Original jar broken, transferred sample	
1708154-07	W-21-UM-South_080317_SED_03-05	5	5	-	-	-		
1708154-08	W-21-UM-South_080317_SED_05-10	5	5	-	-	-		
1708154-09	W-63-Low_080317_SED_03-05	5	5	-	-	-		
1708154-10	W-63-Low_080317_SED_05-10	5	5	-	-	-		

PREPARATION BENCH SHEET

F708449

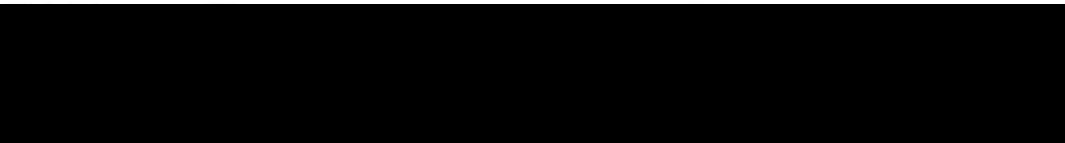
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 8/17/2017

1708155-01	ES-02E_080117_SED_00-01	5	5	-	-	-	Original jar broken, transferred sample	
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### Peer Review Checklist for Total Solids and Density (SOP5133)

Analyst: CLC

Date: 8/17/2017

Reviewer: *BC*

Date: 8/23/17

WO #: 1708151, 1708154, 1708155

Batch #: F708449

Dataset ID: TS170817-1

Reviewer Initials: *BC*

**General Comments/Re-run requirements:**

Select	SOP	Method	Matrix
<input checked="" type="checkbox"/>	SOP5133	TS	S/T
<input type="checkbox"/>	SOP5133	Density	Liquids

Initials	SOP Date	
<u>CLC</u>	<u>12/20/16</u>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Reviewer Initials: *BC*

#### 1. Total Solids

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
- B. Does the batch include 1 MD/MT per 10 client samples?
- C. MD RPD/MT RSD ≤ 10%
- D. Are qualifiers, O-04 and O-09, included for samples analyzed out of hold time?

<input type="checkbox"/> Density Only - NA this section			
<input checked="" type="checkbox"/> DONE			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>

#### 2. Density

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
  - (v) Volume (if other than 1 mL): \_\_\_\_\_ Can the calculated result be reproduced?

<input checked="" type="checkbox"/> Total Solids Only - NA this section			
<input type="checkbox"/> DONE			<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input type="checkbox"/>





Frontier Global Sciences

**Total Solids Dataset Cover Page**

**Dataset ID:** TS170817-2  
**Batch ID:** F708454  
**Work Order(s):** 1708151, 1708156

**Analyst:** CLC  
**Prep. Date:** 8/17/2017

**Analytical Issues/Explanations:**

QUALITY ASSURANCE  
PEER - REVIEWED  
INITIALS: BC 8/23/17

Preparation Date: Aug 17, 2017

Batch #: 2

Analyst: CLC

Batch ID: F708454

Work Order(s): 1708151, 1708156

Pan ID	Sample ID	Pan Wt (g)	Pan + Sample Wet (g)	Wet Sample (g)	Pan + Sample Dry (g)	Dry Sample (g)	% TS	Notes
1	1708151-48	0.9860	6.2410	5.2550	4.5990	3.6130	68.8%	
2	1708151-49	1.0020	6.2330	5.2310	4.1450	3.1430	60.1%	
3	1708151-50	1.0360	6.0530	5.0170	4.2250	3.1890	63.6%	
4	1708151-51	1.0070	6.8990	5.8920	3.4470	2.4400	41.4%	
5	1708156-07	0.9860	6.5490	5.5630	3.1480	2.1620	38.9%	
6	1708156-08	0.9950	6.4850	5.4900	2.9590	1.9640	35.8%	
7	1708156-08MD	1.0300	6.3630	5.3330	2.9190	1.8890	35.4%	1.0%

Remote Lab Total Solids Logbook

Lab Technician(s): CVC Batch: F708454 Date: 8/17/17 Page 2 of 2

Thermometer #: 1704054212 Oven #: 12 Actual temperature: 103.8 (Range 103-105°C)

Balance #<sup>1</sup>: 6 Start time: 12:45 <sup>8/18/17</sup> End time<sup>2</sup>: 9:40 <sup>8/20/17</sup> Time re-weighed<sup>3</sup>: 9:55

Client(s)/WO#: 1708151, 1708156

Sample ID	Pan #	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Notes
1708151-48	T1	0.986	6.241	4.599	} same Sample
1708151-49	T2	1.002	6.233	4.145	
1708151-50	T3	1.036	6.053	4.225	
1708151-51	T4	1.007	6.899	3.447	
1708156-07	T5	0.986	6.549	3.148	lid loose, water leaked into beer bag 8/17/17
1708156-08	T6	0.995	6.485	2.959	
F708454-Dup1	T7	1.030	6.363	2.919	SR L: 1708156-08
CVC 8/17/17					

Comments:

Reviewed  
8/18/17 DM

<sup>1</sup>The same balance must be used to weight samples before and after ovening.

<sup>2</sup>Samples must be ovened over 12 hours.

<sup>3</sup>Samples must be re-weighed within 30 minutes of oven cool down.

PREPARATION BENCH SHEET

F708454

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 8/17/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (g)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708454-DUP1	Duplicate [1708156-08]	5	5					

Standard ID(s):

Description:

Expiration:

**PREPARATION BENCH SHEET**

F708454

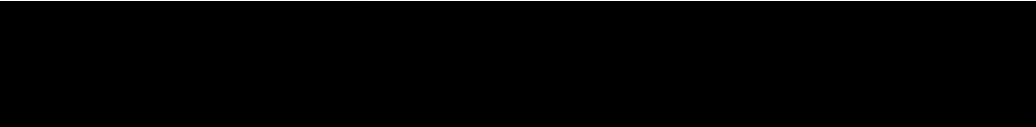
**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EFGS-019 Solids Analysis**

**Prepared: 8/17/2017**

Lab Number	Sample ID	Initial (g)	Final (g)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-48	W-109-A_080317_SED_05-10_R1	5	5	-	-	-		
1708151-49	W-109-A_080317_SED_05-10_R2	5	5	-	-	-		
1708151-50	W-109-A_080317_SED_05-10_R3	5	5	-	-	-		
1708151-51	W-110-A_080317_SED_03-05	5	5	-	-	-		
1708156-07	OB-05S_072717_SED_00-03	5	5	-	-	-		
1708156-08	ES-04_072817_SED_00-03	5	5	-	-	-		



Peer Review Checklist for Total Solids and Density (SOP5133)

Analyst: CLC

Date: 8/17/2017

Reviewer: BC

Date: 8/23/17

WO #: 1708151, 1708156

Batch #: F708454

Dataset ID: TS170817-2

Reviewer Initials: BC

General Comments/Re-run requirements:

[Empty box for general comments]

Select	SOP	Method	Matrix
<input checked="" type="checkbox"/>	SOP5133	TS	S/T
<input type="checkbox"/>	SOP5133	Density	Liquids

Initials	SOP Date	
<u>CLC</u>	<u>12/20/16</u>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Reviewer Initials: BC

1. Total Solids

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
- B. Does the batch include 1 MD/MT per 10 client samples?
- C. MD RPD/MT RSD ≤ 10%
- D. Are qualifiers, O-04 and O-09, included for samples analyzed out of hold time?

<input type="checkbox"/> Density Only - NA this section			
<input checked="" type="checkbox"/> DONE			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>

2. Density

- A. Check for transcription errors from Benchsheet/Raw Data
  - (i) Do sample ID(s) match?
  - (ii) Do masses/volumes match?
  - (iii) Are the analyst name, dataset ID, and preparation date listed?
  - (iv) Does the LIMS benchsheet prep date match the actual prep date?
  - (v) Volume (if other than 1 mL): \_\_\_\_\_ Can the calculated result be reproduced?

<input checked="" type="checkbox"/> Total Solids Only - NA this section			
<input type="checkbox"/> DONE			<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input type="checkbox"/>



Frontier Global Sciences

### MHg27001-170817-1

#### Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: August 17, 2017

Instrument #: Hg2700-1

LIMS Sequence #: 7H18012

Analyst: DM2

Units ng/L

#### Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	22.31 units	446.29	22.31 units	446.29	98.4 %Rec
SEQ-CAL2	1	0.20 ng/L	84.83 units	424.16	84.83 units	424.16	93.5 %Rec
SEQ-CAL3	1	1.00 ng/L	489.83 units	489.83	489.83 units	489.83	107.9 %Rec
SEQ-CAL4	1	2.00 ng/L	890.79 units	445.40	890.79 units	445.40	98.2 %Rec
SEQ-CAL5	1	4.00 ng/L	1852.56 units	463.14	1852.56 units	463.14	102.1 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF  
453.76

Corr. St Dev RF  
+/- 24.45

Corr. RSD CF  
5.4% RSD

Uncorr. Mean RF  
453.76

#### Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.00 units		0.00 ng/L	#VALUE!

#### Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.012 ng/L	±0.021
BLK	2	0	0.000 ng/L	
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

QUALITY ASSURANCE  
PEER-REVIEWED

INITIALS: PL 8/16/17

Instrument	Sample			Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB				Comments		
	Analyst	Type	LabNumber							Correction?	RESP	InitialResult	FinalResult		InitialUnits	
Hg2700-1	DM2	CAL	SEQ-IBL1	1	8/17/17 9:18	25080-1.RAW	9:18:16	0.00				0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL1	1	8/17/17 9:28	25081-1.RAW	9:28:46	22.31				22.3	0.049	0.049	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL2	1	8/17/17 9:39	25082-1.RAW	9:39:17	84.83				84.8	0.187	0.187	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL3	1	8/17/17 9:49	25083-1.RAW	9:49:48	489.83				489.8	1.079	1.079	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL4	1	8/17/17 10:00	25084-1.RAW	10:00:18	890.79				890.8	1.963	1.963	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL5	1	8/17/17 10:10	25085-1.RAW	10:10:49	1852.56				1852.6	4.083	4.083	ng/L	
Hg2700-1	DM2	CAL	SEQ-1CV1	1	8/17/17 10:21	25086-1.RAW	10:21:20	223.21				223.2	0.492	0.492	ng/L	
Hg2700-1	DM2	CAL	SEQ-1CB1	1	8/17/17 10:31	25087-1.RAW	10:31:50	3.07				3.1	0.007	0.007	ng/L	
Hg2700-1	DM2	SAM	F708416-BS1	1000	8/17/17 10:42	25088-1.RAW	10:42:21	954.97		1		955.0	2.105	2104.539	ng/L	
Hg2700-1	DM2	SAM	F708416-BSD1	1000	8/17/17 11:00	25089-2.RAW	11:00:19	886.39		1		886.4	1.953	1953.410	ng/L	
Hg2700-1	DM2	BLK	F708434-BLK1	1.25	8/17/17 11:10	25090-1.RAW	11:10:50	3.77			X	3.8	0.008	0.010	ng/L	
Hg2700-1	DM2	BLK	F708434-BLK2	1.25	8/17/17 11:21	25091-1.RAW	11:21:21	0.00			X	0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708434-BLK3	1.25	8/17/17 11:31	25092-1.RAW	11:31:52	0.64			X	0.6	0.001	0.002	ng/L	
Hg2700-1	DM2	SAM	F708434-BS1	1.25	8/17/17 11:42	25093-1.RAW	11:42:22	341.02			X	341.0	0.752	0.939	ng/L	
Hg2700-1	DM2	SAM	F708434-BSD1	1.25	8/17/17 11:52	25094-1.RAW	11:52:53	347.80			X	347.8	0.766	0.958	ng/L	
Hg2700-1	DM2	SAM	F708434-DUP1	1.25	8/17/17 12:03	25095-1.RAW	12:03:24	1.89			X	1.9	0.004	0.005	ng/L	
Hg2700-1	DM2	SAM	F708434-MS1	1.25	8/17/17 12:13	25096-1.RAW	12:13:54	626.72			X	626.7	1.381	1.726	ng/L	
Hg2700-1	DM2	SAM	F708434-MSD1	1.25	8/17/17 12:24	25097-1.RAW	12:24:25	568.74			X	568.7	1.253	1.567	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV1	1	8/17/17 12:34	25098-1.RAW	12:34:56	221.11				221.1	0.487	0.487	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB1	1	8/17/17 12:45	25099-1.RAW	12:45:26	1.17				1.2	0.003	0.003	ng/L	
Hg2700-1	DM2	SAM	F708434-MS2	1.25	8/17/17 12:55	25100-1.RAW	12:55:57	398.34			X	398.3	0.878	1.097	ng/L	
Hg2700-1	DM2	SAM	F708434-MSD2	1.25	8/17/17 13:06	25101-1.RAW	13:06:28	385.87			X	385.9	0.850	1.063	ng/L	
Hg2700-1	DM2	SAM	1707702-01	1.25	8/17/17 13:16	25102-1.RAW	13:16:59	2.45			X	2.5	0.005	0.007	ng/L	
Hg2700-1	DM2	SAM	1707703-01	1.25	8/17/17 13:27	25103-1.RAW	13:27:29	4.71			X	4.7	0.010	0.013	ng/L	
Hg2700-1	DM2	SAM	1707704-01	1.25	8/17/17 13:38	25104-1.RAW	13:38:00	0.69			X	0.7	0.002	0.002	ng/L	
Hg2700-1	DM2	SAM	1707704-02	1.25	8/17/17 13:48	25105-1.RAW	13:48:31	0.97			X	1.0	0.002	0.003	ng/L	
Hg2700-1	DM2	SAM	1707732-01	1.25	8/17/17 13:59	25106-1.RAW	13:59:01	0.00			X	0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1707732-02	1.25	8/17/17 14:09	25107-1.RAW	14:09:32	254.39			X	254.4	0.561	0.701	ng/L	
Hg2700-1	DM2	SAM	1707732-03	1.25	8/17/17 14:20	25108-1.RAW	14:20:03	269.63			X	269.6	0.594	0.743	ng/L	
Hg2700-1	DM2	SAM	1707732-04	1.25	8/17/17 14:30	25109-1.RAW	14:30:33	241.49			X	241.5	0.532	0.665	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV2	1	8/17/17 14:41	25110-1.RAW	14:41:04	212.96				213.0	0.469	0.469	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB2	1	8/17/17 14:51	25111-1.RAW	14:51:35	1.57				1.6	0.003	0.003	ng/L	
Hg2700-1	DM2	SAM	1707732-05	1.25	8/17/17 15:02	25112-1.RAW	15:02:06	0.00			X	0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708082-01	1.25	8/17/17 15:12	25113-1.RAW	15:12:36	34.32			X	34.3	0.076	0.095	ng/L	
Hg2700-1	DM2	SAM	1708082-03	1.25	8/17/17 15:23	25114-1.RAW	15:23:07	47.57			X	47.6	0.105	0.131	ng/L	
Hg2700-1	DM2	SAM	1708082-04	1.25	8/17/17 15:33	25115-1.RAW	15:33:38	25.72			X	25.7	0.057	0.071	ng/L	
Hg2700-1	DM2	SAM	1708082-05	1.25	8/17/17 15:44	25116-1.RAW	15:44:08	17.48			X	17.5	0.039	0.048	ng/L	
Hg2700-1	DM2	SAM	1708082-07	1.25	8/17/17 15:54	25117-1.RAW	15:54:39	11.92			X	11.9	0.026	0.033	ng/L	
Hg2700-1	DM2	SAM	1708082-08	1.25	8/17/17 16:05	25118-1.RAW	16:05:10	16.28			X	16.3	0.036	0.045	ng/L	
Hg2700-1	DM2	SAM	1708150-01	1.25	8/17/17 16:15	25119-1.RAW	16:15:41	5.24			X	5.2	0.012	0.014	ng/L	
Hg2700-1	DM2	SAM	1708269-01	1.25	8/17/17 16:31	25120-1.RAW	16:31:15	33.55			X	33.6	0.074	0.092	ng/L	
Hg2700-1	DM2	SAM	1708269-02	1.25	8/17/17 16:41	25121-1.RAW	16:41:45	46.12			X	46.1	0.102	0.127	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV3	1	8/17/17 16:52	25122-1.RAW	16:52:16	212.08				212.1	0.467	0.467	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB3	1	8/17/17 17:02	25123-1.RAW	17:02:47	0.00				0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708269-03	1.25	8/17/17 17:13	25124-1.RAW	17:13:18	31.15			X	31.2	0.069	0.086	ng/L	
Hg2700-1	DM2	SAM	1708269-04	1.25	8/17/17 17:23	25125-1.RAW	17:23:48	44.28			X	44.3	0.098	0.122	ng/L	



Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB		RESP	InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber							Correction?	RESP					
Hg2700-1	DM2	BLK	F708416-BLK1	500	8/17/17 17:34	25126-1.RAW	17:34:19	0.03	1		0.0	0.000	0.037	ng/L		
Hg2700-1	DM2	BLK	F708416-BLK2	500	8/17/17 17:44	25127-1.RAW	17:44:50	0.00	1		0.0	0.000	0.000	ng/L		
Hg2700-1	DM2	BLK	F708416-BLK3	500	8/17/17 17:55	25128-1.RAW	17:55:20	0.00	1		0.0	0.000	0.000	ng/L		
Hg2700-1	DM2	SAM	*F708416-BLK4	500	8/17/17 18:05	25129-1.RAW	18:05:51	0.00	1		0.0	0.000	-0.012	ng/L		
Hg2700-1	DM2	SAM	*F708416-BLK5	500	8/17/17 18:16	25130-1.RAW	18:16:22	0.00	1		0.0	0.000	-0.012	ng/L		
Hg2700-1	DM2	SAM	F708416-DUP1	2500	8/17/17 18:26	25131-1.RAW	18:26:52	373.55	1		373.6	0.823	2058.082	ng/L		
Hg2700-1	DM2	SAM	F708416-MS1	2500	8/17/17 18:37	25132-1.RAW	18:37:23	460.93	1		460.9	1.016	2539.488	ng/L		
Hg2700-1	DM2	SAM	F708416-MSD1	2500	8/17/17 18:47	25133-1.RAW	18:47:54	522.36	1		522.4	1.151	2877.938	ng/L		
Hg2700-1	DM2	CAL	SEQ-CCV4	1	8/17/17 18:58	25134-1.RAW	18:58:25	224.38	1		224.4	0.494	0.494	ng/L		
Hg2700-1	DM2	CAL	SEQ-CCB4	1	8/17/17 19:08	25135-1.RAW	19:08:55	0.00	1		0.0	0.000	0.000	ng/L		
Hg2700-1	DM2	SAM	F708416-MS2	2500	8/17/17 19:19	25136-1.RAW	19:19:26	439.04	1		439.0	0.968	2418.891	ng/L		
Hg2700-1	DM2	SAM	F708416-MSD2	2500	8/17/17 19:29	25137-1.RAW	19:29:57	476.99	1		477.0	1.051	2627.957	ng/L		
Hg2700-1	DM2	SAM	1707810-30	500	8/17/17 19:40	25138-1.RAW	19:40:27	20.98	1		21.0	0.046	23.101	ng/L		
Hg2700-1	DM2	SAM	1707810-31	500	8/17/17 19:50	25139-1.RAW	19:50:58	10.76	1		10.8	0.024	11.842	ng/L		
Hg2700-1	DM2	SAM	1707810-44	500	8/17/17 20:01	25140-1.RAW	20:01:29	55.17	1		55.2	0.122	60.774	ng/L		
Hg2700-1	DM2	SAM	1707810-45	500	8/17/17 20:11	25141-1.RAW	20:11:59	72.61	1		72.6	0.160	80.002	ng/L		
Hg2700-1	DM2	SAM	1707810-54	500	8/17/17 20:22	25142-1.RAW	20:22:30	24.25	1		24.3	0.053	26.712	ng/L		
Hg2700-1	DM2	SAM	1707810-55	500	8/17/17 20:33	25143-1.RAW	20:33:01	9.91	1		9.9	0.022	10.910	ng/L		
Hg2700-1	DM2	SAM	1708148-01	2500	8/17/17 20:43	25144-1.RAW	20:43:32	430.64	1		430.6	0.949	2372.569	ng/L		
Hg2700-1	DM2	SAM	1708148-02	2500	8/17/17 20:54	25145-1.RAW	20:54:02	1007.13	1		1007.1	2.220	5548.785	ng/L		
Hg2700-1	DM2	CAL	SEQ-CCV5	1	8/17/17 21:04	25146-1.RAW	21:04:33	241.42	1		241.4	0.532	0.532	ng/L		
Hg2700-1	DM2	CAL	SEQ-CCB5	1	8/17/17 21:15	25147-1.RAW	21:15:04	0.64	1		0.6	0.001	0.001	ng/L		
Hg2700-1	DM2	SAM	1708151-01	500	8/17/17 21:25	25148-1.RAW	21:25:34	121.83	1		121.8	0.268	134.227	ng/L		
Hg2700-1	DM2	SAM	1708151-02	500	8/17/17 21:36	25149-1.RAW	21:36:05	117.69	1		117.7	0.259	129.668	ng/L		
Hg2700-1	DM2	SAM	1708151-03	500	8/17/17 21:46	25150-1.RAW	21:46:36	57.70	1		57.7	0.127	63.566	ng/L		
Hg2700-1	DM2	SAM	1708156-01	500	8/17/17 21:57	25151-1.RAW	21:57:06	12.88	1		12.9	0.028	14.178	ng/L		
Hg2700-1	DM2	SAM	1708156-02	500	8/17/17 22:07	25152-1.RAW	22:07:37	12.73	1		12.7	0.028	14.011	ng/L		
Hg2700-1	DM2	SAM	1708156-03	500	8/17/17 22:18	25153-1.RAW	22:18:08	10.32	1		10.3	0.023	11.360	ng/L		
Hg2700-1	DM2	SAM	1708156-04	500	8/17/17 22:28	25154-1.RAW	22:28:39	48.48	1		48.5	0.107	53.411	ng/L		
Hg2700-1	DM2	SAM	1708156-05	500	8/17/17 22:39	25155-1.RAW	22:39:09	0.00	1		0.0	0.000	-0.012	ng/L		
Hg2700-1	DM2	SAM	1708156-06	500	8/17/17 22:49	25156-1.RAW	22:49:40	34.57	1		34.6	0.076	38.085	ng/L		
Hg2700-1	DM2	SAM	1708156-07	500	8/17/17 23:00	25157-1.RAW	23:00:11	67.30	1		67.3	0.148	74.143	ng/L		
Hg2700-1	DM2	CAL	SEQ-CCV6	1	8/17/17 23:10	25158-1.RAW	23:10:41	209.43	1		209.4	0.462	0.462	ng/L		
Hg2700-1	DM2	CAL	SEQ-CCB6	1	8/17/17 23:21	25159-1.RAW	23:21:12	0.00	1		0.0	0.000	0.000	ng/L		
Hg2700-1	DM2	SAM	1708156-08	500	8/17/17 23:31	25160-1.RAW	23:31:43	12.38	1		12.4	0.027	13.633	ng/L		
Hg2700-1	DM2	SAM	1708367-01	2500	8/17/17 23:42	25161-1.RAW	23:42:13	469.16	1		469.2	1.034	2584.845	ng/L		
Hg2700-1	DM2	CAL	SEQ-CCV7	1	8/17/17 23:52	25162-1.RAW	23:52:44	218.88	1		218.9	0.482	0.482	ng/L		
Hg2700-1	DM2	CAL	SEQ-CCB7	1	8/17/17 0:03	25163-1.RAW	0:03:15	0.00	1		0.0	0.000	0.000	ng/L		

## ANALYSIS SEQUENCE

7H18012

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/17/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H18012-IBL1 ✓	QC	1			
7H18012-CAL1 ✓	QC	2	1704180 ✓		
7H18012-CAL2 ✓	QC	3	1704181 ✓		
7H18012-CAL3 ✓	QC	4	1704182 ✓		
7H18012-CAL4 ✓	QC	5	1704183 ✓		
7H18012-CAL5 ✓	QC	6	1704184 ✓		
7H18012-ICV1 ✓	QC	7	1703246 ✓		
7H18012-ICB1 ✓	QC	8			
F708416-BS1 ✓	QC	9			
F708416-BSD1 ✓	QC	10			
7H18012-CCV1 ✓	QC	11	1703246 ✓		
7H18012-CCB1 ✓	QC	12			
7H18012-CCV2 ✓	QC	13	1703246 ✓		
7H18012-CCB2 ✓	QC	14			
7H18012-CCV3 ✓	QC	15	1703246 ✓		
7H18012-CCB3 ✓	QC	16			
F708416-BLK1 ✓	QC	17			
F708416-BLK2 ✓	QC	18			
F708416-BLK3 ✓	QC	19			
F708416-BLK4 ✓	QC	20			
F708416-BLK5 ✓	QC	21			
F708416-DUP1 ✓	QC	22			
F708416-MS1 ✓	QC	23			
F708416-MSD1 ✓	QC	24			
7H18012-CCV4 ✓	QC	25	1703246 ✓		
7H18012-CCB4 ✓	QC	26			
F708416-MS2 ✓	QC	27			
F708416-MSD2 ✓	QC	28			
1707810-30 ✓	MHg-CVAFS-S-KOH	29			
1707810-31 ✓	MHg-CVAFS-S-KOH	30			
1707810-44 ✓	MHg-CVAFS-S-KOH	31			
1707810-45 ✓	MHg-CVAFS-S-KOH	32			
1707810-54 ✓	MHg-CVAFS-S-KOH	33			
1707810-55 ✓	MHg-CVAFS-S-KOH	34			
1708148-01 ✓	MHg-CVAFS-S-KOH	35			BatchQC

Due Date: 8/18/2017

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Page 1 of 2

ANALYSIS SEQUENCE

7H18012

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/17/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708148-01 ✓	MHg-CVAFS-T-KOH	36			
1708148-02 ✓	MHg-CVAFS-T-KOH	37			
7H18012-CCV5 ✓	QC	38	1703246		
7H18012-CCB5 ✓	QC	39			
1708151-01 ✓	MHg-CVAFS-S-KOH	40			
1708151-02 ✓	MHg-CVAFS-S-KOH	41			
1708151-03 ✓	MHg-CVAFS-S-KOH	42			
1708156-01 ✓	MHg-CVAFS-S-KOH	43			
1708156-02 ✓	MHg-CVAFS-S-KOH	44			
1708156-03 ✓	MHg-CVAFS-S-KOH	45			
1708156-04 ✓	MHg-CVAFS-S-KOH	46			
1708156-05 ✓	MHg-CVAFS-S-KOH	47			
1708156-06 ✓	MHg-CVAFS-S-KOH	48			
1708156-07 ✓	MHg-CVAFS-S-KOH	49			
7H18012-CCV6 ✓	QC	50	1703246		
7H18012-CCB6 ✓	QC	51			
1708156-08 ✓	MHg-CVAFS-S-KOH	52			
1708367-01 ✓	MHg-CVAFS-S-KOH	53			BatchQC
1708367-01 ✓	MHg-CVAFS-T-KOH	54			
7H18012-CCV7 ✓	QC	55	1703246		
7H18012-CCB7 ✓	QC	56			

Dan Moorem 8/17/17  
Samples Loaded By Date

Dan Moorem 8/18/17  
Data Processed By Date

**PREPARATION BENCH SHEET**

F708416

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/14/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (ml)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708416-BLK1	Blank	0.5	20					
F708416-BLK2	Blank	0.5	20					
F708416-BLK3	Blank	0.5	20					
F708416-BLK4	Blank	0.293	20					Homogenization Pre Blank 1708148 + 1708367
F708416-BLK5	Blank	0.2741	20					Homogenization Post Blank 1708148 + 1708367
F708416-BS1	LCS	0.1685	20	1703305	168.5			
F708416-BSD1	LCS Dup	0.1363	20	1703305	136.3			
F708416-DUP1	Duplicate [1708148-01]	0.2651	20					
F708416-MS1	Matrix Spike [1708148-01]	0.2792	20	1605978	100			
F708416-MS2	Matrix Spike [1708367-01]	0.25	20	1605978	100			
F708416-MSD1	Matrix Spike Dup [1708148-01]	0.2721	20	1605978	100			
F708416-MSD2	Matrix Spike Dup [1708367-01]	0.2581	20	1605978	100			

Standard ID(s):  
1605978  
1703305

Description:  
MHg New Primary 100 ng/mL spike  
DORM-4

Expiration:  
15-Oct-17 00:00  
29-May-20 00:00  
29-May-20 00:00

Reagent ID(s):  
1704399  
1704707

Description:  
Ethylating Agent (For Methyl Mercury Analysis)  
Acetate Buffer

Expiration:  
16-Jan-18 00:00  
29-Jan-18 00:00

**PREPARATION BENCH SHEET**

F708416

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/14/2017**

Lab Number	Sample ID	Initial (g)	Final (ml)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1707810-30	BO-05_072517_SED_00-01	0.2541	20	-	-	-		
1707810-31	BO-05_072517_SED_01-03	0.2692	20	-	-	-		
1707810-44	W-21-UM-Central-E_072517_SED_00-01	0.2511	20	-	-	-		
1707810-45	W-21-UM-Central-E_072517_SED_01-03	0.2551	20	-	-	-		
1707810-54	W-65-Intertidal_072517_SED_00-01	0.2543	20	-	-	-		
1707810-55	W-65-Intertidal_072517_SED_01-03	0.2582	20	-	-	-		
1708148-01	170717-00814 NW 1033 912291 Canned Albacore Tuna FY17 M07	0.2724	20	-	-	-	BatchQC	Added for BatchQC in: F708416
1708148-02	170717-00816 SD 1022 912291 Canned Albacore Tuna FY17 M07	0.2523	20	-	-	-		
1708151-01	W-100-A_080117_SED_00-01	0.2941	20	-	-	-		
1708151-02	W-100-A_080117_SED_01-03	0.2651	20	-	-	-		
1708151-03	W-101-INTA_080117_SED_00-01	0.2744	20	-	-	-		
1708156-01	MM-MR_080117_SED_00-03_R1	0.2882	20	-	-	-		
1708156-02	MM-MR_080117_SED_00-03_R2	0.2913	20	-	-	-		
1708156-03	MM-MR_080117_SED_00-03_R3	0.2771	20	-	-	-		
1708156-04	ES-02_073117_SED_00-03	0.2592	20	-	-	-		
1708156-05	BO-04_080117_SED_00-03	0.2562	20	-	-	-		
1708156-06	OB-04_072717_SED_00-03	0.2742	20	-	-	-		
1708156-07	OB-05S_072717_SED_00-03	0.2503	20	-	-	-		
1708156-08	ES-04_072817_SED_00-03	0.2501	20	-	-	-		

PREPARATION BENCH SHEET

F708416

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/14/2017

1708367-01	170717-00815 BA 146 912291 Canned Albacore Tuna FY17 M07	0.254	20	-	-	-	BatchQC	Added for BatchQC in: F708416
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PREPARATION BENCH SHEET

2700-1  
8/17/17 DM

F708416

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/14/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (ml)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708416-BLK1	Blank	0.5	20					500X
F708416-BLK2	Blank	0.5	20					500X
F708416-BLK3	Blank	0.5	20					500X
F708416-BLK4	Blank	0.293	20					Homogenization Pre Blank 1708148 + 1708367 500X
F708416-BLK5	Blank	0.2741	20					Homogenization Post Blank 1708148 + 1708367 500X
F708416-BS1	LCS	0.1685	20	1703305	168.5			1000X
F708416-BSD1	LCS Dup	0.1363	20	1703305	136.3			1000X
F708416-DUP1	Duplicate [1708148-01]	0.2651	20					2500X
F708416-MS1	Matrix Spike [1708148-01]	0.2792	20	1605978	100			2500X
F708416-MS2	Matrix Spike [1708367-01]	0.25	20	1605978	100			2500X
F708416-MSD1	Matrix Spike Dup [1708148-01]	0.2721	20	1605978	100			2500X
F708416-MSD2	Matrix Spike Dup [1708367-01]	0.2581	20	1605978	100			2500X

Standard ID(s):  
1605978  
1703305

Description:  
MHg New Primary 100 ng/mL spike  
DORM-4

Expiration:  
15-Oct-17 00:00  
29-May-20 00:00  
29-May-20 00:00

1704309  
1704707

PREPARATION BENCH SHEET

2700-1  
8/17/17 DM

F708416

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/14/2017

Lab Number	Sample ID	Initial (g)	Final (ml)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1707810-30	BO-05_072517_SED_00-01	0.2541	20	-	-	-		500X
1707810-31	BO-05_072517_SED_01-03	0.2692	20	-	-	-		500X
1707810-44	W-21-UM-Central-E_072517_SED_00-01	0.2511	20	-	-	-		500X
1707810-45	W-21-UM-Central-E_072517_SED_01-03	0.2551	20	-	-	-		500X
1707810-54	W-65-Intertidal_072517_SED_00-01	0.2543	20	-	-	-		500X
1707810-55	W-65-Intertidal_072517_SED_01-03	0.2582	20	-	-	-		500X
1708148-01	170717-00814 NW 1033 912291 Canned Albacore Tuna FY17 M07	0.2724	20	-	-	-	BatchQC	Added for BatchQC in: F708416 2500X
1708148-02	170717-00816 SD 1022 912291 Canned Albacore Tuna FY17 M07	0.2523	20	-	-	-		2500X
1708151-01	W-100-A_080117_SED_00-01	0.2941	20	-	-	-		500X
1708151-02	W-100-A_080117_SED_01-03	0.2651	20	-	-	-		500X
1708151-03	W-101-INTA_080117_SED_00-01	0.2744	20	-	-	-		500X
1708156-01	MM-MR_080117_SED_00-03_R1	0.2882	20	-	-	-		500X
1708156-02	MM-MR_080117_SED_00-03_R2	0.2913	20	-	-	-		500X
1708156-03	MM-MR_080117_SED_00-03_R3	0.2771	20	-	-	-		500X
1708156-04	ES-02_073117_SED_00-03	0.2592	20	-	-	-		500X
1708156-05	BO-04_080117_SED_00-03	0.2562	20	-	-	-		500X
1708156-06	OB-04_072717_SED_00-03	0.2742	20	-	-	-		500X
1708156-07	OB-05S_072717_SED_00-03	0.2503	20	-	-	-		500X
1708156-08	ES-04_072817_SED_00-03	0.2501	20	-	-	-		500X



PREPARATION BENCH SHEET

2700-1  
8/17/17 DM

F708416

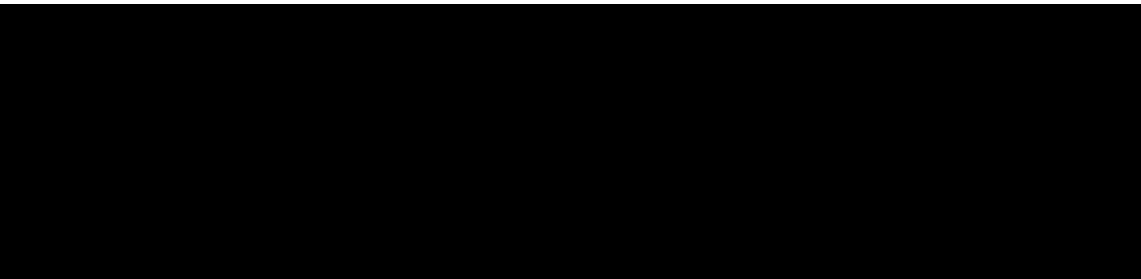
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/14/2017

1708367-01	170717-00815 BA 146 912291 Canned Albacore Tuna FY17 M07	0.254	20	-	-	-	BatchQC	Added for BatchQC in: F708416 2522x
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Technician: CwF

Batch#: F708416

Date: 8/14/17

- EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: \_\_\_\_\_

Balance#: 1019 8/14/17 Calibrated?  Yes  No

Therm.#: 14545

Vial Type:  Glass  Teflon  
Calibrated?  Yes  No

\*Time in: 3:00 Actual Temp. (raw): 77.0 °C w/ CF: 77.1 °C

Time out: 6:00 Actual Temp. (raw): 77.0 °C w/ CF: 77.1 °C

\*Time in can't begin before target temperature is reached

Final vol.: 20 mL (LIMS ID: 1606119 CwF 8/16/17)

Spike Witness: DH 8/15/17 (initial and date) Spike vol.: 100 µL (LIMS ID: 1605978)

HCl LIMS ID: N/A

HNO<sub>3</sub> LIMS ID: N/A

70/30 LIMS ID: N/A

Other Acid LIMS ID: KOH/methanol = 1704725

Glass Vial # 0006824

Boiling Chip lot # 1704424

Pipette SN#: N/A 8/15/17 Calibration Date: 8/10/17

Pipette SN#: N101152 Calibration Date: 8/15/17

Dispenser #: 02N48426 Calibrated?  Yes  No

Dispenser #: N/A

\*Hotblock Position: H5

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	CRM LIMS ID <input type="checkbox"/> NA
1	F708416 - BLK1	0.2998	23	1708156 - 04	0.2592	BS1/BSD = DORAM
2	F708416 - BLK2	0.2942	24	1708156 - 05	0.2562	
3	F708416 - BLK3	0.2869	25	1708156 - 06	0.2742	LFMS1703305
4	F708416 - BS1	0.1685	26	1708156 - 07	0.2503	Comments
5	F708416 - (BSD)	0.1363	27	1708156 - 08	0.2501	
6	<del>F70780</del> 1707810-30	0.2541	28	1708367 - 01	0.2540	DUP1, MS1, MSD1 source = 1708148-01
7	1707810 - 31	0.2592	29	F708416 - BLK4	0.2930	MS2 MSD2 source = 1708367-01
8	1707810 - 44	0.2511	30	F708416 - BLK5	0.2741	
9	1707810 - 45	0.2551	31	F708416 - MSZ	0.2500	BLK4 is homog. pre-blank
10	1707810 - 54	0.2543	32	F708416 - MSD2	0.2981	
11	1707810 - 55	0.2582	33			BLK5 is homog. post-blank
12	1708148 - 01	0.2724	34			
13	F708416 - DUP1	0.2651	35			CwF 8/15/17
14	F708416 - MS1	0.2792	36			
15	F708416 - MSD1	0.2721	37			
16	1708148 - 02	0.2523	38			
17	1708151 - 01	0.2941	39			
18	1708151 - 02	0.2651	40			
19	1708151 - 03	0.2744	41			
20	1708156 - 01	0.2882	42			
21	1708156 - 02	0.2913	43			
22	1708156 - 03	0.2771	44			

# Failing Data Report - 7H18012

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
F708416-MS1	MHg-CVAFS-S-KOH ✓	181.9	9.0		174.2	35.852	ng/g	21.5	65.00	130.00			PASS-OVER	FAIL-MS	QM-02
F708416-MSD1	MHg-CVAFS-S-KOH ✓	211.5	9.2	181.9	174.2	36.788	ng/g	101	65.00	130.00	130	35.00	PASS-OVER	FAIL-MSD (RPD)	QR-078 8.15
F708416-MS2	MHg-CVAFS-S-KOH ✓	193.5	10.0		203.5	40.040	ng/g	-25.0	65.00	130.00			PASS-OVER	FAIL-MS	QM-02
F708416-MSD2	MHg-CVAFS-S-KOH ✓	203.6	9.7	193.5	203.5	38.783	ng/g	0.277	65.00	130.00	-204	35.00	PASS-OVER	FAIL-MSD (Rec.)	QM-02, QR-08
F708416-MS1	MHg-CVAFS-T-KOH ✓	181.9	9.0		174.2	35.852	ng/g	21.5	65.00	130.00			PASS-OVER	FAIL-MS	QM-02
F708416-MSD1	MHg-CVAFS-T-KOH ✓	211.5	9.2	181.9	174.2	36.788	ng/g	101	65.00	130.00	130	35.00	PASS-OVER	FAIL-MSD (RPD)	QR-08
F708416-MS2	MHg-CVAFS-T-KOH ✓	193.5	10.0		203.5	40.040	ng/g	-25.0	65.00	130.00			PASS-OVER	FAIL-MS	QM-02
F708416-MSD2	MHg-CVAFS-T-KOH ✓	203.6	9.7	193.5	203.5	38.783	ng/g	0.277	65.00	130.00	-204	35.00	PASS-OVER	FAIL-MSD (Rec.)	QM-02, QR-08

Don Moxam                      8/18/17  
 Analyst Reviewed By                      Date

[Signature]                      8/18/17  
 Peer Reviewed By                      Date



Analysis Datasheet for Methyl Mercury in Waters

Date of Analysis: August 17, 2017

Instrument #: Hg2700-1

LIMS Sequence #: 7H18015

Analyst: DM2

Units ng/L

**Calibration Statistics:**

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	22.31 units	446.29	22.31 units	446.29	98.4 %Rec
SEQ-CAL2	1	0.20 ng/L	84.83 units	424.16	84.83 units	424.16	93.5 %Rec
SEQ-CAL3	1	1.00 ng/L	489.83 units	489.83	489.83 units	489.83	107.9 %Rec
SEQ-CAL4	1	2.00 ng/L	890.79 units	445.40	890.79 units	445.40	98.2 %Rec
SEQ-CAL5	1	4.00 ng/L	1852.56 units	463.14	1852.56 units	463.14	102.1 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF 453.76    Corr. St Dev RF +/- 24.45    Corr. RSD CF 5.4% RSD    Uncorr. Mean RF 453.76    Eff Factor 0.8690

**MDN Only**

- SEQ-CAL1
- SEQ-CAL2
- SEQ-CAL3
- SEQ-CAL4
- SEQ-CAL5
- SEQ-CAL6 NA
- SEQ-CAL7 NA
- SEQ-CAL8 NA
- SEQ-CAL9 NA
- SEQ-ICV/CCV
- Acetate Buffer
- Ethylating Agent

**Blanks:**

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.00 units		0.00 ng/L	#VALUE!

**Preparation Blanks**

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.005 ng/L	±0.006
BLK	2	0	0.000 ng/L	
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

QUALITY ASSURANCE  
PEER-REVIEWED

INITIALS:   A 8/18/17



Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber							Correction?	RESP				
Hq2700-1	DM2	CAL	SEQ-IBL1	1	8/17/17 9:18	25080-1.RAW	9:18	0.00			0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL1	1	8/17/17 9:28	25081-1.RAW	#####	22.31			22.3	0.049	0.049	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL2	1	8/17/17 9:39	25082-1.RAW	#####	84.83			84.8	0.187	0.187	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL3	1	8/17/17 9:49	25083-1.RAW	#####	489.83			489.8	1.079	1.079	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL4	1	8/17/17 10:00	25084-1.RAW	#####	890.79			890.8	1.963	1.963	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL5	1	8/17/17 10:10	25085-1.RAW	#####	1852.56			1852.6	4.083	4.083	ng/L	
Hq2700-1	DM2	CAL	SEQ-1CV1	1	8/17/17 10:21	25086-1.RAW	#####	223.21			223.2	0.492	0.492	ng/L	
Hq2700-1	DM2	CAL	SEQ-1CB1	1	8/17/17 10:31	25087-1.RAW	#####	3.07			3.1	0.007	0.007	ng/L	
Hq2700-1	DM2	SAM	F708416-BS1	1000	8/17/17 10:42	25088-1.RAW	#####	954.97		x	955.0	2.422	2421.808	ng/L	
Hq2700-1	DM2	SAM	F708416-BSD1	1000	8/17/17 11:00	25089-2.RAW	#####	886.39		x	886.4	2.248	2247.897	ng/L	
Hq2700-1	DM2	BLK	F708434-BLK1	1.25	8/17/17 11:10	25090-1.RAW	#####	3.77	1		3.8	0.010	0.012	ng/L	
Hq2700-1	DM2	BLK	F708434-BLK2	1.25	8/17/17 11:21	25091-1.RAW	#####	0.00	1		0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	BLK	F708434-BLK3	1.25	8/17/17 11:31	25092-1.RAW	#####	0.64	1		0.6	0.002	0.002	ng/L	
Hq2700-1	DM2	SAM	F708434-BS1	1.25	8/17/17 11:42	25093-1.RAW	#####	341.02	1		341.0	0.861	1.076	ng/L	
Hq2700-1	DM2	SAM	F708434-BSD1	1.25	8/17/17 11:52	25094-1.RAW	#####	347.80	1		347.8	0.878	1.098	ng/L	
Hq2700-1	DM2	SAM	F708434-DUP1	1.25	8/17/17 12:03	25095-1.RAW	#####	1.89	1		1.9	0.001	0.001	ng/L	
Hq2700-1	DM2	SAM	F708434-MS1	1.25	8/17/17 12:13	25096-1.RAW	#####	626.72	1		626.7	1.586	1.982	ng/L	
Hq2700-1	DM2	SAM	F708434-MSD1	1.25	8/17/17 12:24	25097-1.RAW	#####	568.74	1		568.7	1.439	1.798	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV1	1	8/17/17 12:34	25098-1.RAW	#####	221.11			221.1	0.487	0.487	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB1	1	8/17/17 12:45	25099-1.RAW	#####	1.17			1.2	0.003	0.003	ng/L	
Hq2700-1	DM2	SAM	F708434-MS2	1.25	8/17/17 12:55	25100-1.RAW	#####	398.34	1		398.3	1.006	1.258	ng/L	
Hq2700-1	DM2	SAM	F708434-MSD2	1.25	8/17/17 13:06	25101-1.RAW	#####	385.87	1		385.9	0.975	1.219	ng/L	
Hq2700-1	DM2	SAM	1707702-01	1.25	8/17/17 13:16	25102-1.RAW	#####	2.45	1		2.5	0.002	0.003	ng/L	
Hq2700-1	DM2	SAM	1707703-01	1.25	8/17/17 13:27	25103-1.RAW	#####	4.71	1		4.7	0.008	0.010	ng/L	
Hq2700-1	DM2	SAM	1707704-01	1.25	8/17/17 13:38	25104-1.RAW	#####	0.69	1		0.7	-0.002	-0.002	ng/L	
Hq2700-1	DM2	SAM	1707704-02	1.25	8/17/17 13:48	25105-1.RAW	#####	0.97	1		1.0	-0.001	-0.002	ng/L	
Hq2700-1	DM2	SAM	1707732-01	1.25	8/17/17 13:59	25106-1.RAW	#####	0.00	1		0.0	-0.004	-0.005	ng/L	
Hq2700-1	DM2	SAM	1707732-02	1.25	8/17/17 14:09	25107-1.RAW	#####	254.39	1		254.4	0.641	0.802	ng/L	
Hq2700-1	DM2	SAM	1707732-03	1.25	8/17/17 14:20	25108-1.RAW	#####	269.63	1		269.6	0.680	0.850	ng/L	
Hq2700-1	DM2	SAM	1707732-04	1.25	8/17/17 14:30	25109-1.RAW	#####	241.49	1		241.5	0.609	0.761	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV2	1	8/17/17 14:41	25110-1.RAW	#####	212.96			213.0	0.469	0.469	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB2	1	8/17/17 14:51	25111-1.RAW	#####	1.57			1.6	0.003	0.003	ng/L	
Hq2700-1	DM2	SAM	1707732-05	1.25	8/17/17 15:02	25112-1.RAW	#####	0.00	1		0.0	-0.004	-0.005	ng/L	
Hq2700-1	DM2	SAM	1708082-01	1.25	8/17/17 15:12	25113-1.RAW	#####	34.32	1		34.3	0.083	0.104	ng/L	
Hq2700-1	DM2	SAM	1708082-03	1.25	8/17/17 15:23	25114-1.RAW	#####	47.57	1		47.6	0.117	0.146	ng/L	
Hq2700-1	DM2	SAM	1708082-04	1.25	8/17/17 15:33	25115-1.RAW	#####	25.72	1		25.7	0.061	0.077	ng/L	
Hq2700-1	DM2	SAM	1708082-05	1.25	8/17/17 15:44	25116-1.RAW	#####	17.48	1		17.5	0.041	0.051	ng/L	
Hq2700-1	DM2	SAM	1708082-07	1.25	8/17/17 15:54	25117-1.RAW	#####	11.92	1		11.9	0.026	0.033	ng/L	
Hq2700-1	DM2	SAM	1708082-08	1.25	8/17/17 16:05	25118-1.RAW	#####	16.28	1		16.3	0.038	0.047	ng/L	
Hq2700-1	DM2	SAM	1708150-01	1.25	8/17/17 16:15	25119-1.RAW	#####	5.24	1		5.2	0.010	0.012	ng/L	
Hq2700-1	DM2	SAM	1708269-01	1.25	8/17/17 16:31	25120-1.RAW	#####	33.55	1		33.6	0.081	0.102	ng/L	
Hq2700-1	DM2	SAM	1708269-02	1.25	8/17/17 16:41	25121-1.RAW	#####	46.12	1		46.1	0.113	0.142	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV3	1	8/17/17 16:52	25122-1.RAW	#####	212.08			212.1	0.467	0.467	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB3	1	8/17/17 17:02	25123-1.RAW	#####	0.00			0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	SAM	1708269-03	1.25	8/17/17 17:13	25124-1.RAW	#####	31.15	1		31.2	0.075	0.094	ng/L	
Hq2700-1	DM2	SAM	1708269-04	1.25	8/17/17 17:23	25125-1.RAW	#####	44.28	1		44.3	0.109	0.136	ng/L	

Instrument	Sample			Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB					Comments
	Analyst	Type	LabNumber							Correction?	RESP	InitialResult	FinalResult	InitialUnits	
Hq2700-1	DM2	BLK	F708416-BLK1	500	8/17/17 17:34	25126-1.RAW	#####	0.03		X	0.0	0.000	0.042	ng/L	
Hq2700-1	DM2	BLK	F708416-BLK2	500	8/17/17 17:44	25127-1.RAW	#####	0.00		X	0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	BLK	F708416-BLK3	500	8/17/17 17:55	25128-1.RAW	#####	0.00		X	0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	SAM	*F708416-BLK4	500	8/17/17 18:05	25129-1.RAW	#####	0.00		X	0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	SAM	*F708416-BLK5	500	8/17/17 18:16	25130-1.RAW	#####	0.00		X	0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	SAM	F708416-DUP1	2500	8/17/17 18:26	25131-1.RAW	#####	373.55		X	373.6	0.947	2368.348	ng/L	
Hq2700-1	DM2	SAM	F708416-MS1	2500	8/17/17 18:37	25132-1.RAW	#####	460.93		X	460.9	1.169	2922.325	ng/L	
Hq2700-1	DM2	SAM	F708416-MSD1	2500	8/17/17 18:47	25133-1.RAW	#####	522.36		X	522.4	1.325	3311.795	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV4	1	8/17/17 18:58	25134-1.RAW	#####	224.38			224.4	0.494	0.494	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB4	1	8/17/17 19:08	25135-1.RAW	#####	0.00			0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	SAM	F708416-MS2	2500	8/17/17 19:19	25136-1.RAW	#####	439.04		X	439.0	1.113	2783.548	ng/L	
Hq2700-1	DM2	SAM	F708416-MSD2	2500	8/17/17 19:29	25137-1.RAW	#####	476.99		X	477.0	1.210	3024.130	ng/L	
Hq2700-1	DM2	SAM	1707810-30	500	8/17/17 19:40	25138-1.RAW	#####	20.98		X	21.0	0.053	26.597	ng/L	
Hq2700-1	DM2	SAM	1707810-31	500	8/17/17 19:50	25139-1.RAW	#####	10.76		X	10.8	0.027	13.642	ng/L	
Hq2700-1	DM2	SAM	1707810-44	500	8/17/17 20:01	25140-1.RAW	#####	55.17		X	55.2	0.140	69.950	ng/L	
Hq2700-1	DM2	SAM	1707810-45	500	8/17/17 20:11	25141-1.RAW	#####	72.61		X	72.6	0.184	92.076	ng/L	
Hq2700-1	DM2	SAM	1707810-54	500	8/17/17 20:22	25142-1.RAW	#####	24.25		X	24.3	0.062	30.753	ng/L	
Hq2700-1	DM2	SAM	1707810-55	500	8/17/17 20:33	25143-1.RAW	#####	9.91		X	9.9	0.025	12.569	ng/L	
Hq2700-1	DM2	SAM	1708148-01	2500	8/17/17 20:43	25144-1.RAW	#####	430.64		X	430.6	1.092	2730.244	ng/L	
Hq2700-1	DM2	SAM	1708148-02	2500	8/17/17 20:54	25145-1.RAW	#####	1007.13		X	1007.1	2.554	6385.267	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV5	1	8/17/17 21:04	25146-1.RAW	#####	241.42			241.4	0.532	0.532	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB5	1	8/17/17 21:15	25147-1.RAW	#####	0.64			0.6	0.001	0.001	ng/L	
Hq2700-1	DM2	SAM	1708151-01	500	8/17/17 21:25	25148-1.RAW	#####	121.83		X	121.8	0.309	154.476	ng/L	
Hq2700-1	DM2	SAM	1708151-02	500	8/17/17 21:36	25149-1.RAW	#####	117.69		X	117.7	0.298	149.229	ng/L	
Hq2700-1	DM2	SAM	1708151-03	500	8/17/17 21:46	25150-1.RAW	#####	57.70		X	57.7	0.146	73.163	ng/L	
Hq2700-1	DM2	SAM	1708156-01	500	8/17/17 21:57	25151-1.RAW	#####	12.88		X	12.9	0.033	16.329	ng/L	
Hq2700-1	DM2	SAM	1708156-02	500	8/17/17 22:07	25152-1.RAW	#####	12.73		X	12.7	0.032	16.138	ng/L	
Hq2700-1	DM2	SAM	1708156-03	500	8/17/17 22:18	25153-1.RAW	#####	10.32		X	10.3	0.026	13.087	ng/L	
Hq2700-1	DM2	SAM	1708156-04	500	8/17/17 22:28	25154-1.RAW	#####	48.48		X	48.5	0.123	61.477	ng/L	
Hq2700-1	DM2	SAM	1708156-05	500	8/17/17 22:39	25155-1.RAW	#####	0.00		X	0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	SAM	1708156-06	500	8/17/17 22:49	25156-1.RAW	#####	34.57		X	34.6	0.088	43.840	ng/L	
Hq2700-1	DM2	SAM	1708156-07	500	8/17/17 23:00	25157-1.RAW	#####	67.30		X	67.3	0.171	85.334	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV6	1	8/17/17 23:10	25158-1.RAW	#####	209.43			209.4	0.462	0.462	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB6	1	8/17/17 23:21	25159-1.RAW	#####	0.00			0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	SAM	1708156-08	500	8/17/17 23:31	25160-1.RAW	#####	12.38		X	12.4	0.031	15.702	ng/L	
Hq2700-1	DM2	SAM	1708367-01	2500	8/17/17 23:42	25161-1.RAW	#####	469.16		X	469.2	1.190	2974.519	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV7	1	8/17/17 23:52	25162-1.RAW	#####	218.88			218.9	0.482	0.482	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB7	1	8/17/17 0:03	25163-1.RAW	#####	0.00			0.0	0.000	0.000	ng/L	

## ANALYSIS SEQUENCE

7H18015

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/17/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H18015-IBL1 ✓	QC	1			
7H18015-CAL1 ✓	QC	2	1704180 ✓		
7H18015-CAL2 ✓	QC	3	1704181 ✓		
7H18015-CAL3 ✓	QC	4	1704182 ✓		
7H18015-CAL4 ✓	QC	5	1704183 ✓		
7H18015-CAL5 ✓	QC	6	1704184 ✓		
7H18015-ICV1 ✓	QC	7	1703246 ✓		
7H18015-ICB1 ✓	QC	8			
F708434-BLK1 -	QC	9			
F708434-BLK2 ✓	QC	10			
F708434-BLK3 ✓	QC	11			
F708434-BS1 ✓	QC	12			
F708434-BSD1 ✓	QC	13			
F708434-DUP1 ✓	QC	14			
F708434-MS1 ✓	QC	15			
F708434-MSD1 ✓	QC	16			
7H18015-CCV1 ✓	QC	17	1703246 ✓		
7H18015-CCB1 ✓	QC	18			
F708434-MS2 ✓	QC	19			
F708434-MSD2 ✓	QC	20			
1707702-01 ✓	MHg-CVAFS-W-Dist	21			Scan all data - Level IV
1707703-01 ✓	MHg-CVAFS-W-Dist	22			Scan all data - Level IV
1707704-01 ✓	MHg-CVAFS-W-Dist	23			Scan all data - Level IV
1707704-02 ✓	MHg-CVAFS-W-Dist	24			Scan all data - Level IV
1707732-01 ✓	MHg-CVAFS-W-Dist	25			
1707732-02 ✓	MHg-CVAFS-W-Dist	26			
1707732-03 ✓	MHg-CVAFS-W-Dist	27			
1707732-04 ✓	MHg-CVAFS-W-Dist	28			
7H18015-CCV2 ✓	QC	29	1703246 ✓		
7H18015-CCB2 ✓	QC	30			
1707732-05 ✓	MHg-CVAFS-W-Dist	31			
1708082-01 ✓	MHg-CVAFS-W-Dist	32			Scan all data for level IV report
1708082-03 ✓	MHg-CVAFS-W-Dist	33			Scan all data for level IV report
1708082-04 ✓	MHg-CVAFS-W-Dist	34			Scan all data for level IV report
1708082-05 ✓	MHg-CVAFS-W-Dist	35			Scan all data for level IV report

Due Date: 8/18/2017

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**ANALYSIS SEQUENCE**

**7H18015**

**Instrument: Hg2700-1**

**Calibration ID: UNASSIGNED**

**Analyzed: 8/17/2017**

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708082-07 ✓	MHg-CVAFS-W-Dist	36			Scan all data for level IV report
1708082-08 ✓	MHg-CVAFS-W-Dist	37			Scan all data for level IV report
1708150-01 ✓	MHg-CVAFS-W-Dist	38			
1708269-01 ✓	MHg-CVAFS-W-Dist	39			Scan all data for level IV report
1708269-02 ✓	MHg-CVAFS-W-Dist	40			Scan all data for level IV report
7H18015-CCV3 ✓	QC	41	1703246 ✓		
7H18015-CCB3 ✓	QC	42			
1708269-03 ✓	MHg-CVAFS-W-Dist	43			Scan all data for level IV report
1708269-04 ✓	MHg-CVAFS-W-Dist	44			Scan all data for level IV report
7H18015-CCV4 ✓	QC	45	1703246 ✓		
7H18015-CCB4 ✓	QC	46			

Don Maxem      8/17/17  
 Samples Loaded By                      Date

Don Maxem      8/18/17  
 Data Processed By                      Date



**PREPARATION BENCH SHEET**

F708434

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Water**

**Prepared using: AFS - EFGS-013 Methyl Hg Distillation for Water**

**Prepared: 8/16/2017**

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708434-BLK1	Blank	45	40					
F708434-BLK2	Blank	45	40					
F708434-BLK3	Blank	45	40					
F708434-BS1	Blank Spike	45	40	1704143	45			
F708434-BSD1	Blank Spike dup	45	40	1704143	45			
F708434-DUP1	Duplicate [1707704-01]	45	40					
F708434-MS1	Matrix Spike [1707732-02]	45	40	1704143	45			
F708434-MS2	Matrix Spike [1708082-01]	45	40	1704143	45			
F708434-MSD1	Matrix Spike Dup [1707732-02]	45	40	1704143	45			
F708434-MSD2	Matrix Spike Dup [1708082-01]	45	40	1704143	45			

<u>Standard ID(s):</u> 1704143	<u>Description:</u> MHg New Primary 1.0 ng/mL CAL	<u>Expiration:</u> 10-Oct-17 00:00	<u>Reagent ID(s):</u> 1704399 1704707 1704976 1704978 1705016	<u>Description:</u> Ethylating Agent (For Methyl Mercury Analysis) Acetate Buffer APDC 0.4% HCl Distillation Dilute (Made Daily) 2.5% Ascorbic Acid	<u>Expiration:</u> 16-Jan-18 00:00 29-Jan-18 00:00 03-Sep-17 00:00 17-Aug-17 00:00 24-Aug-17 00:00
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**PREPARATION BENCH SHEET**

F708434

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Water**

**Prepared using: AFS - EFGS-013 Methyl Hg Distillation for Water**

**Prepared: 8/16/2017**

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1707702-01	EQ_072517_PONAR_QC	45	40	-	-	-	Scan all data - Level IV	
1707703-01	EQ_072517_TWEEZER_QC	45	40	-	-	-	Scan all data - Level IV	
1707704-01	EQ_072517_CSHOE_QC	45	40	-	-	-	Scan all data - Level IV	
1707704-02	EQ_072517_CORE_QC	45	40	-	-	-	Scan all data - Level IV	
1707732-01	P89218-1	45	40	-	-	-		
1707732-02	P89218-2	45	40	-	-	-		
1707732-03	P89218-6	45	40	-	-	-		
1707732-04	P89218-7	45	40	-	-	-		
1707732-05	P89218-8	45	40	-	-	-		
1708082-01	OL-2637-01	45	40	-	-	-	Preservation Blank Created Scan all dat	
1708082-03	OL-2637-02	45	40	-	-	-	Preservation Blank Created Scan all dat	
1708082-04	OL-2637-03	45	40	-	-	-	Preservation Blank Created Scan all dat	
1708082-05	OL-2637-04	45	40	-	-	-	Preservation Blank Created Scan all dat	
1708082-07	OL-2637-05	45	40	-	-	-	Preservation Blank Created Scan all dat	
1708082-08	OL-2637-06	45	40	-	-	-	Preservation Blank Created Scan all dat	
1708150-01	Sewer_Comp1	45	40	-	-	-		
1708269-01	OL-2642-01	45	40	-	-	-	Preservation Blank Created Scan all dat	
1708269-02	OL-2642-02	45	40	-	-	-	Preservation Blank Created Scan all dat	
1708269-03	OL-2642-03	45	40	-	-	-	Preservation Blank Created Scan all dat	

PREPARATION BENCH SHEET

F708434

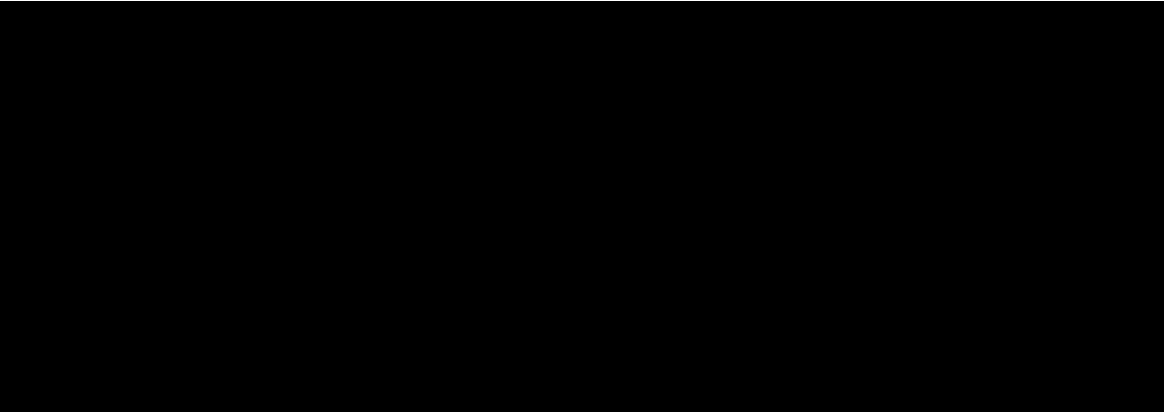
Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/16/2017

1708269-04	OL-2642-04	45	40	-	-	-	Preservation Blank Created Scan all dat
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PREPARATION BENCH SHEET

F708434

Eurofins Frontier Global Sciences, Inc.

2700-1  
8/17/17 DM

Matrix: Water

Prepared using: AFS - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/16/2017

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708434-BLK1	Blank	45	40					1.25X
F708434-BLK2	Blank	45	40					1.25X
F708434-BLK3	Blank	45	40					1.25X
F708434-BS1	Blank Spike	45	40	1704143	45			1.25X
F708434-BSD1	Blank Spike dup	45	40	1704143	45			1.25X
F708434-DUP1	Duplicate [1707704-01]	45	40					1.25X
F708434-MS1	Matrix Spike [1707732-02]	45	40	1704143	45			1.25X
F708434-MS2	Matrix Spike [1708082-01]	45	40	1704143	45			1.25X
F708434-MSD1	Matrix Spike Dup [1707732-02]	45	40	1704143	45			1.25X
F708434-MSD2	Matrix Spike Dup [1708082-01]	45	40	1704143	45			1.25X

Standard ID(s): 1704143  
Description: MHg New Primary 1.0 ng/mL CAL

Expiration: 10-Oct-17 00:00

Reagent ID(s): 1704976, 1704978  
Description: APDC, 0.4% HCl Distillation Dilute (Made Daily)

Expiration: 03-Sep-17 00:00, 17-Aug-17 00:00

1705014  
1704399  
1704707

PREPARATION BENCH SHEET

2700-1  
8/17/17 DM

F708434

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/16/2017

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1707702-01	EQ_072517_PONAR_QC	45	40	-	-	-	Scan all data - Level IV	1.25X
1707703-01	EQ_072517_TWEEZER_QC	45	40	-	-	-	Scan all data - Level IV	1.25X
1707704-01	EQ_072517_CSHOE_QC	45	40	-	-	-	Scan all data - Level IV	1.25X
1707704-02	EQ_072517_CORE_QC	45	40	-	-	-	Scan all data - Level IV	1.25X
1707732-01	P89218-1	45	40	-	-	-		1.25X
1707732-02	P89218-2	45	40	-	-	-		1.25X
1707732-03	P89218-6	45	40	-	-	-		1.25X
1707732-04	P89218-7	45	40	-	-	-		1.25X
1707732-05	P89218-8	45	40	-	-	-		1.25X
1708082-01	OL-2637-01	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X
1708082-03	OL-2637-02	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X
1708082-04	OL-2637-03	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X
1708082-05	OL-2637-04	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X
1708082-07	OL-2637-05	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X
1708082-08	OL-2637-06	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X
1708150-01	Sewer_Comp1	45	40	-	-	-		1.25X
1708269-01	OL-2642-01	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X
1708269-02	OL-2642-02	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X
1708269-03	OL-2642-03	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X

PREPARATION BENCH SHEET

2200-1  
8/17/17 DM

F708434

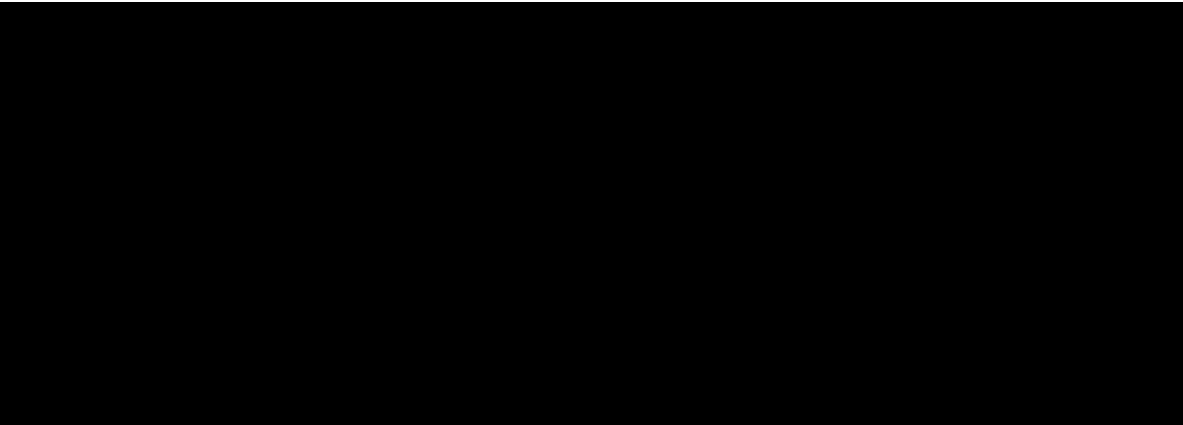
Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/16/2017

1708269-04	OL-2642-04	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X
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Methyl Mercury Distillations (EPA 1630)

Name: Duyen Date: 8/16/17 Batch #: F708434 Sample Matrix: Water  
 WO#: 1707702, 1707703, 1707704, 1707732, 1708082, 1708150, 1708269

The pH of the preserved sample must be documented before an aliquot is removed for preparation.

Digest #	Sample ID Number	Preserved pH	Sample Size (mL)	Final pH (≥3)
Blk1	F708434 Blk1	1.0	45	3.0
Blk2	F708434 Blk2	1.0	45	3.0
Blk3	F708434 Blk3	1.0	45	3.0
B51	F708434 B51	1.0	45	3.0
B501	F708434 B501	1.0	45	3.0
Dup1	F708434 Dup1	1.0	45	4.0
M51	F708434 M51	1.0	45	4.0
M501	F708434 M501	1.0	45	4.0
M52	F708434 M52	1.0	45	3.0
M502	F708434 M502	1.0	45	3.0
1	1707702-01B	1.0	45	4.0
2	1707703-01B	1.0	45	4.0
3	1707704-01B	1.0	45	4.0
4	1707704-02B	1.0	45	4.0
5	1707732-01A	1.0	45	3.0
6	1707732-02A	1.0	45	3.0
7	1707732-03A	1.0	45	3.0
8	1707732-04A	1.0	45	3.0
9	1707732-05A	1.0	45	3.0
10	1708082-01B	1.0	45	3.0
11	1708082-03B	1.0	45	3.0
12	1708082-04B	1.0	45	4.0
13	1708082-05B	1.0	45	3.0
14	1708082-07B	1.0	45	3.0
15	1708082-08B	1.0	45	3.0
16	1708150-01A	1.0	45	3.0
17	1708269-01B	1.0	45	3.0
18	1708269-02B	1.0	45	3.0
19	1708269-03B	1.0	45	3.0
20	1708269-04B	1.0	45	3.0

Spike ID: 1704143  
 Spike Amount: 45 µL  
 Spike Witness: DAL 8-10-17  
 Balance #: 2  
 Calibrated?  Yes  No  
 Pipette #: MW09653  
 Cal. Date: 8-10-17  
 Pipette #: MW09643  
 Cal. Date: 8/16/17  
 Pipette #: N/A  
 Cal. Date: N/A  
 APDC ID: 1704976  
 HCl ID: 1704978  
 Temperature: No set range as the temp. may be changed to keep flow rate of ≥10 mL per hour. Temperature is recorded for informational purposes only.  
 Unit 1: 120.5  
 Unit 2: 122.0  
 Unit 3: 120.6  
 Unit 4: 120.4  
 Unit 5: 122.0  
 Unit 6: 122.0  
 Time First samples is OFF 13:15  
 Comments: F708424 source  
Dup1 1707704-01  
F708424 M51 M501  
1707732-02B-02  
8/16/17  
F708424 M52 M502  
1708082-01  
8/16/17  
1708082-01  
8/16/17

**Failing Data Report - 7H18015**

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
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Don Mattem      8/18/17  
Analyst Reviewed By      Date

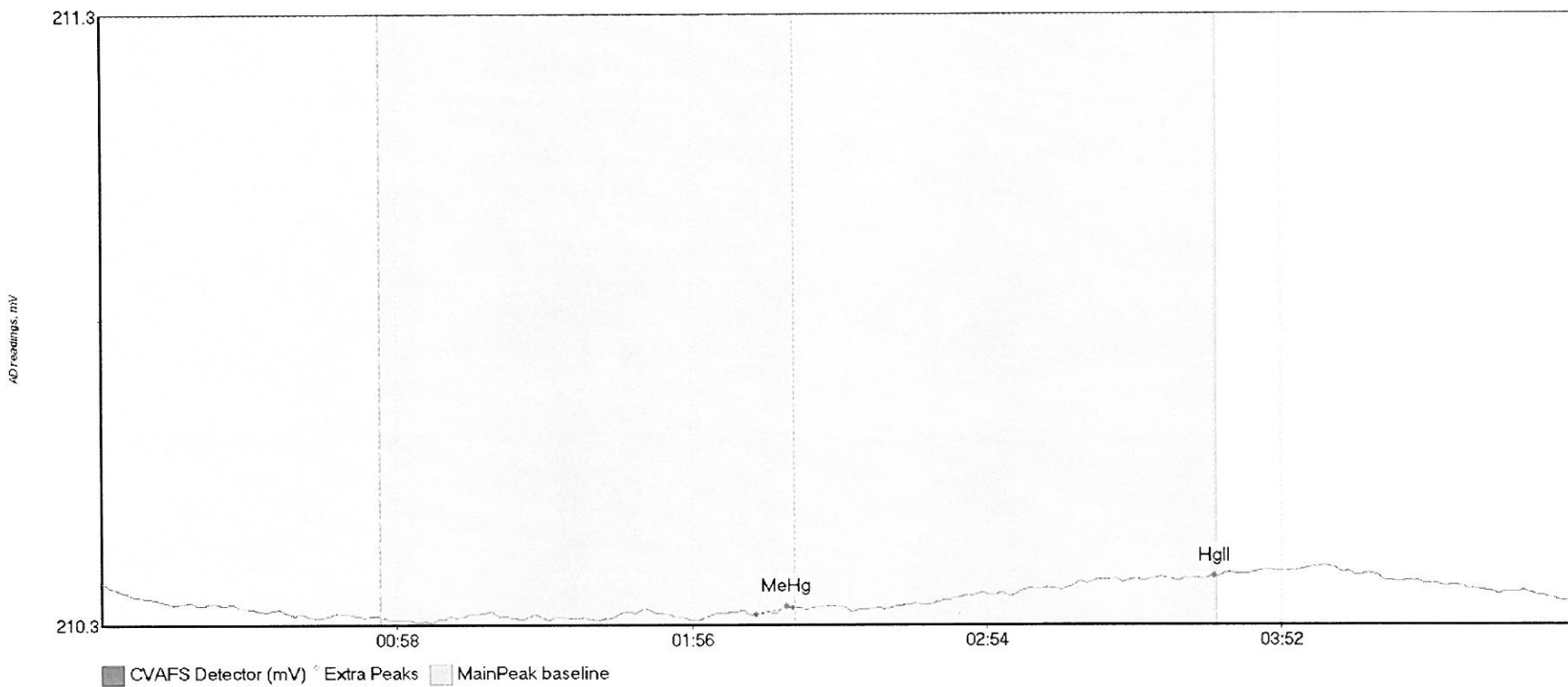
[Signature]      8/10/17  
Peer Reviewed By      Date



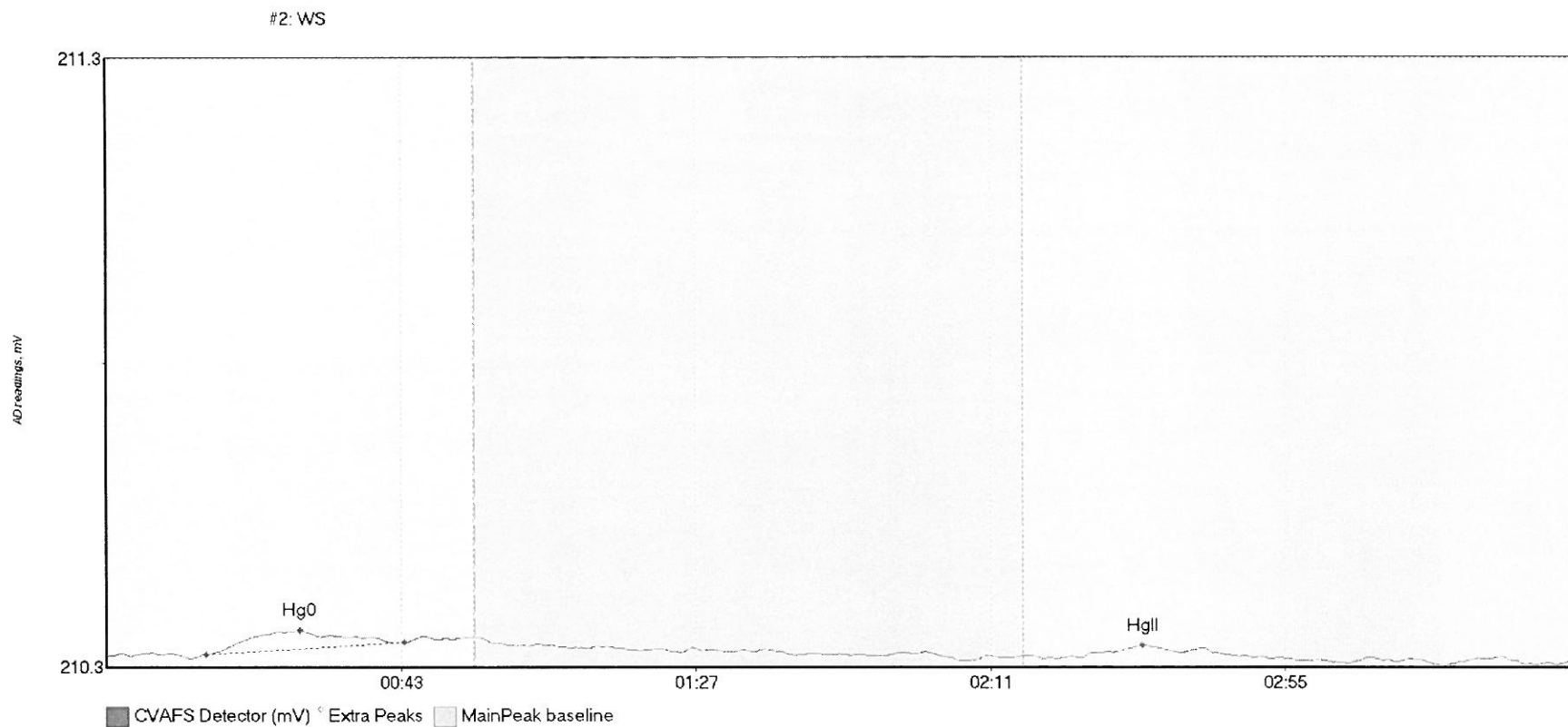


1708156-02	A11	500	25152-1.RAW	4.06070076	12.7267519	479.799811	0	psample10	OK	1	
1708156-03	A12	500	25153-1.RAW	5.96628788	10.3209754	-534.510582	0	psample10	OK	1	
1708156-04	A13	500	25154-1.RAW	22:28:39	4.74507576	48.4832386	-1515.51893	0	psample10	CT	1
1708156-05	A14	500	25155-1.RAW	3.05445076	0	-93.1611032	0	psample10	OK	1	
1708156-06	A15	500	25156-1.RAW	3.90175189	34.5738873	-541.405469	0	psample10	OK	1	
1708156-07	A16	500	25157-1.RAW	2.6502939	67.2973485	-1038.55647	0	psample10	CT	1	
SEQ-CCV6	A17	1	25158-1.RAW	2.11030402	209.432552	-8.96465436	0	psample10	CT	1	
SEQ-CCB6	A18	1	25159-1.RAW	3.77528409	0	-3.49514678	0	psample10	OK	1	
1708156-08	A19	500	25160-1.RAW	2.54320549	12.383428	-501.458913	0	psample10	CT	1	
1708367-01	A20	2500	25161-1.RAW	6.45890152	469.164512	-23.3007576	0	psample10	CT	1	
SEQ-CCV7	A21	1	25162-1.RAW	4.21510417	218.878409	-12.0877131	0	psample10	OK	1	
SEQ-CCB7	B1	1	25163-1.RAW	0:03:15	3.77679924	0	8.09688322	0	psample10	OK	1

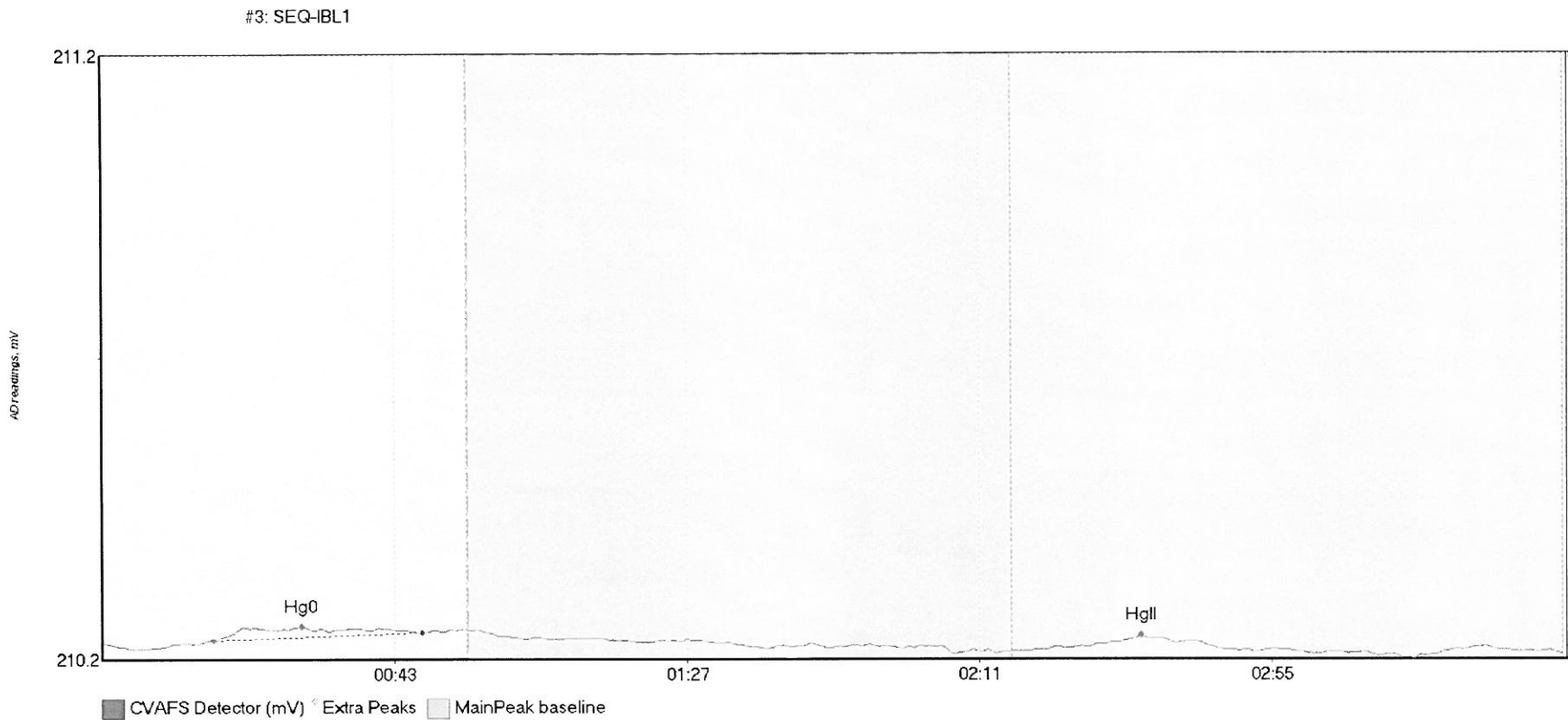
#1: Clean



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
Clean MeHg	0.092	129.2	136.3	210.35	210.37	135.2	0.014	OK	210.4046	0.00	-0.03	
Clean HgII	3.855	162.4	219.8	210.37	210.42	219.5	0.047	CT	210.4046	0.00	-0.03	017

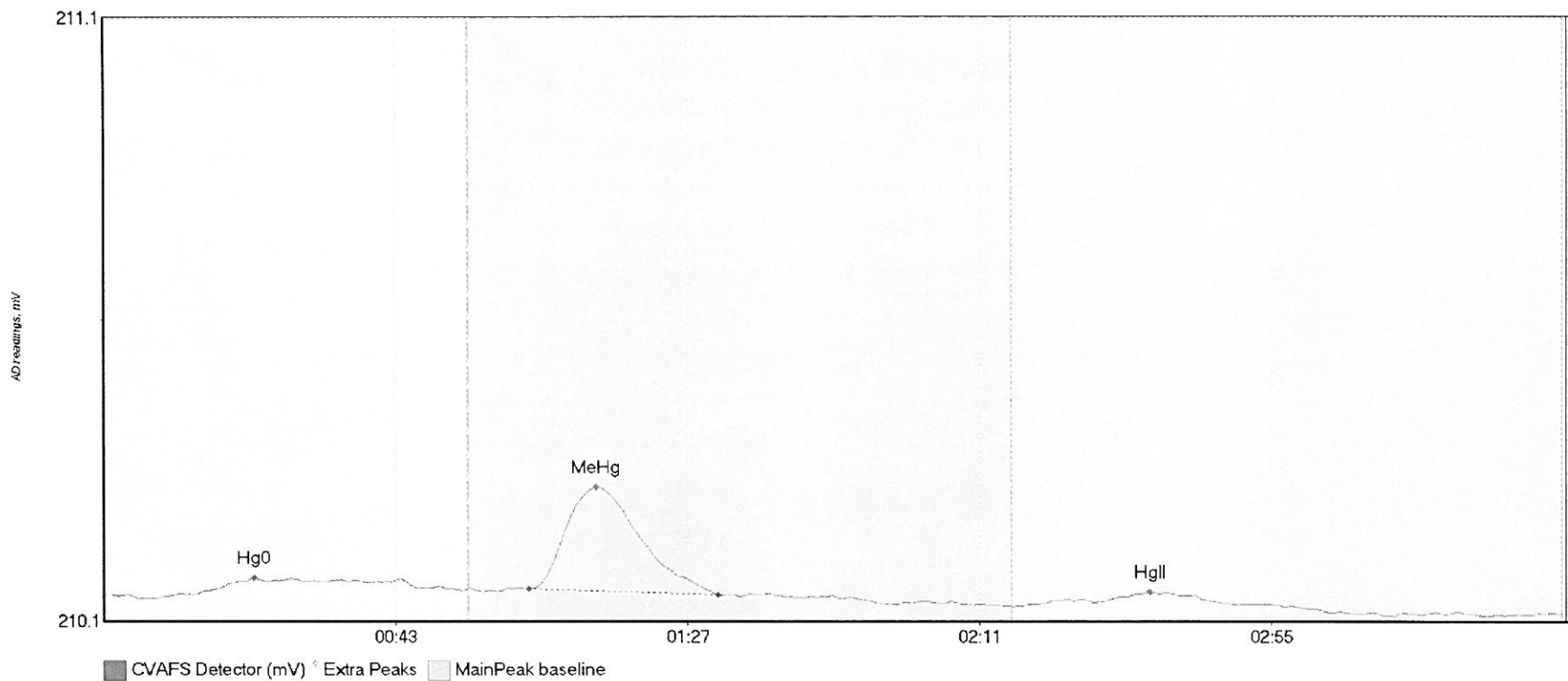


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	4.972	14.9	44.4	210.28	210.30	28.8	0.039	OK	210.2774	0.00	-0.01	
WS HgII	0.760	148.3	160.3	210.28	210.28	154.7	0.013	OK	210.2774	0.00	-0.01	017



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-IBL1 Hg0	3.419	16.7	48.1	210.22	210.24	30.0	0.023	OK	210.2190	0.00	-0.02	
SEQ-IBL1 HgII	2.521	145.1	169.1	210.21	210.21	156.3	0.020	OK	210.2190	0.00	-0.02	017

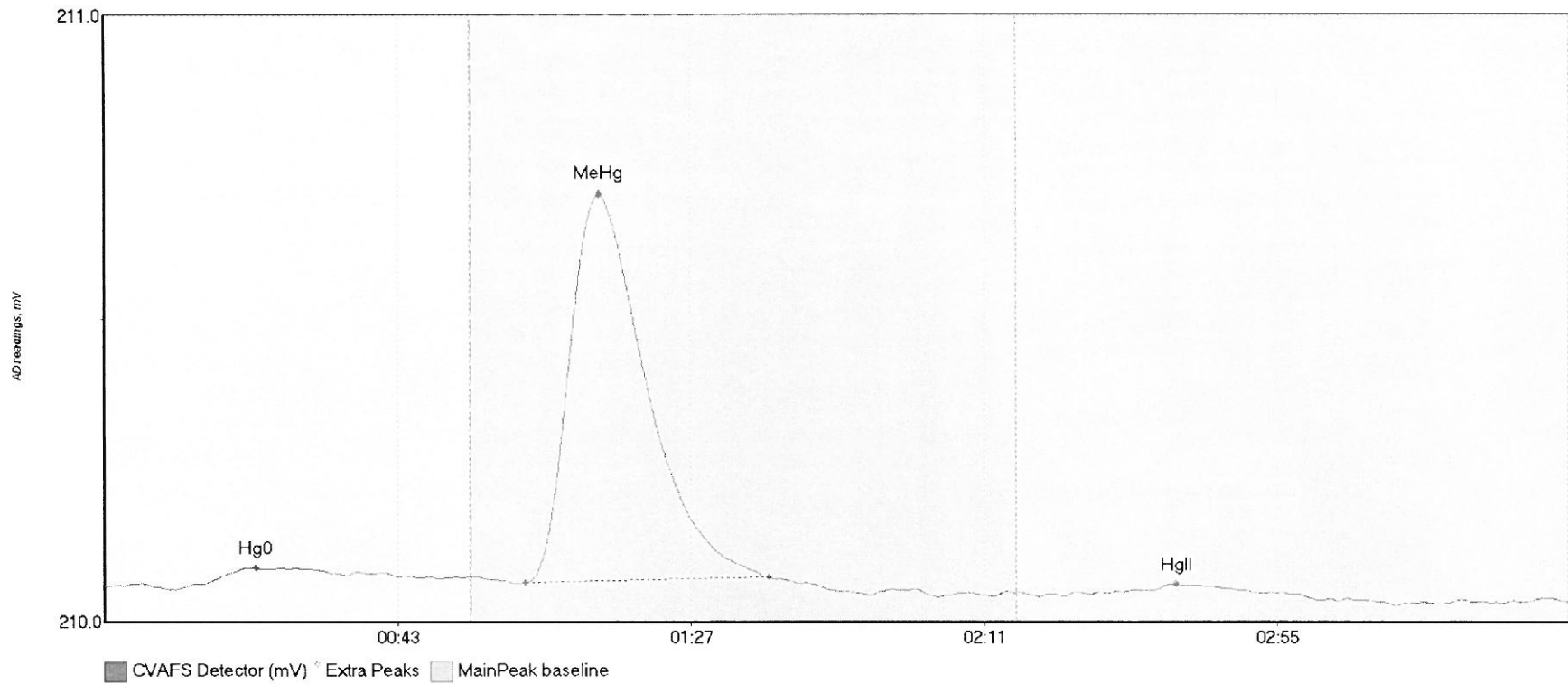
#4: SEQ-CAL1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL1 Hg0	6.229	13.9	54.0	210.15	210.15	22.7	0.027	OK	210.1474	0.00	-0.03	
SEQ-CAL1 MeHg	22.315	64.1	92.6	210.16	210.15	74.3	0.170	OK	210.1474	0.00	-0.03	
SEQ-CAL1 HgII	2.940	141.0	170.3	210.13	210.13	157.8	0.020	OK	210.1474	0.00	-0.03	

017

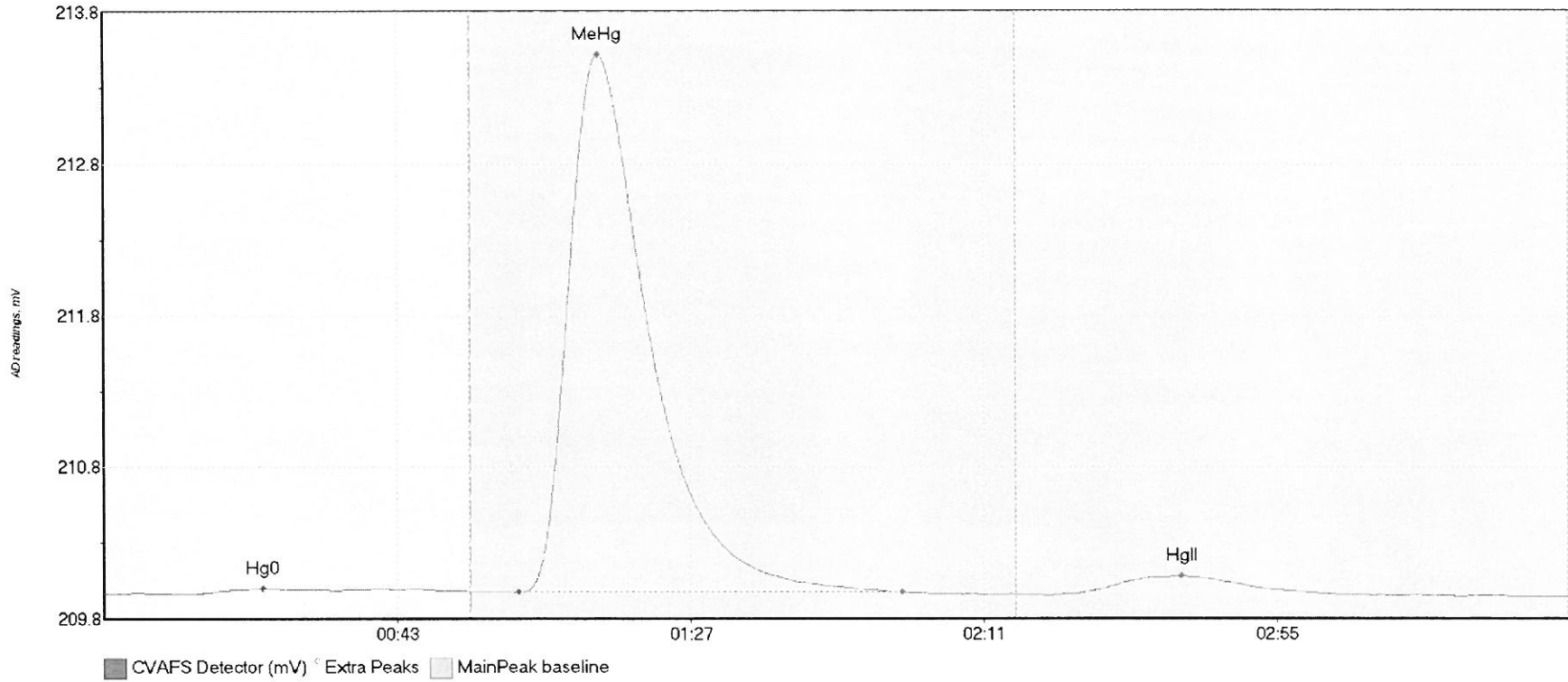
#5: SEQ-CAL2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL2 Hg0	5.182	14.5	50.5	210.07	210.08	22.7	0.028	OK	210.0631	0.00	-0.02	
SEQ-CAL2 MeHg	84.832	63.2	99.7	210.07	210.08	74.3	0.639	OK	210.0631	0.00	-0.02	
SEQ-CAL2 HgII	0.809	157.5	170.6	210.06	210.06	160.9	0.010	OK	210.0631	0.00	-0.02	

017

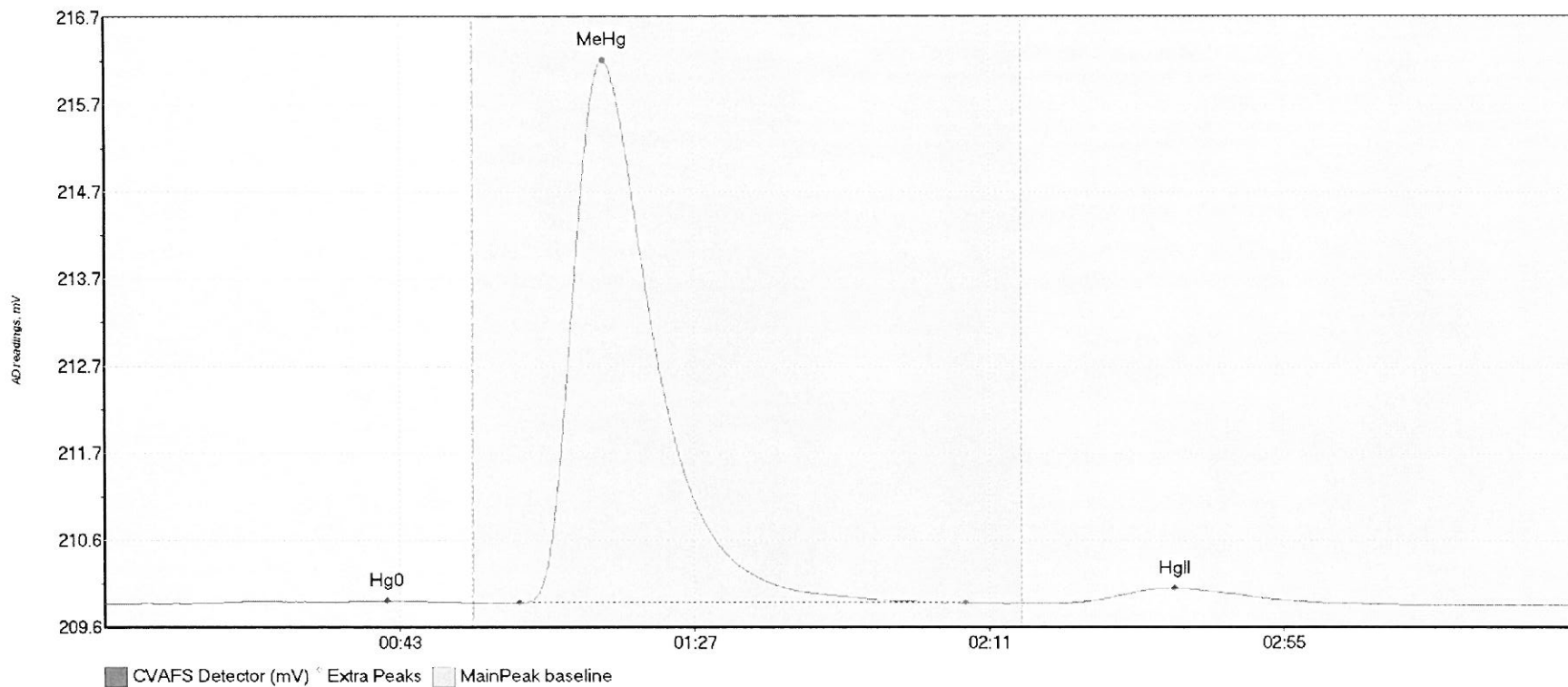
#6: SEQ-CAL3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL3 Hg0	6.367	14.1	55.0	209.99	210.00	23.8	0.033	CT	209.9871	0.00	-0.02	
SEQ-CAL3 MeHg	489.825	62.2	119.7	209.99	209.99	74.2	3.480	OK	209.9871	0.00	-0.02	
SEQ-CAL3 HgII	22.242	145.6	184.4	209.99	209.98	161.8	0.113	OK	209.9871	0.00	-0.02	

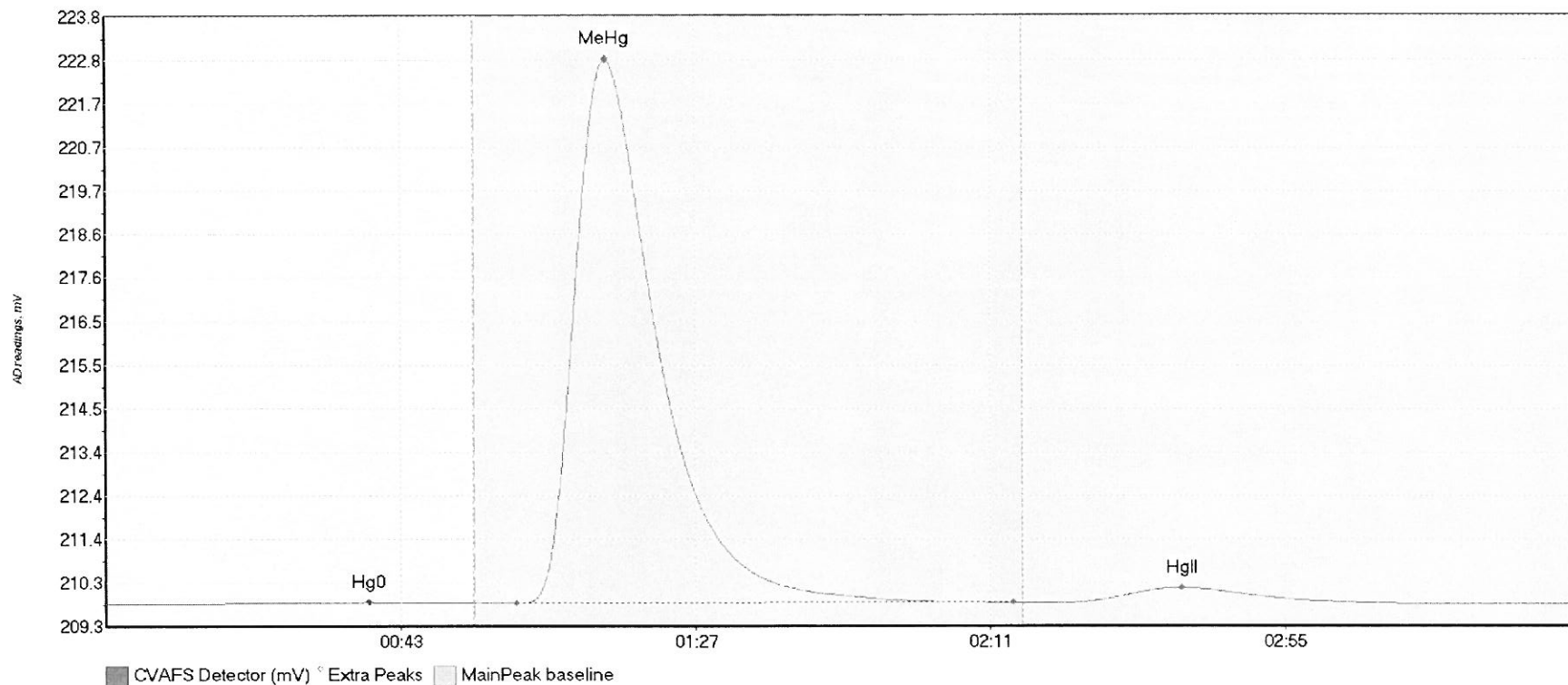


#7: SEQ-CAL4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL4 Hg0	7.701	8.1	55.0	209.91	209.92	42.1	0.034	CT	209.9058	0.00	-0.01	
SEQ-CAL4 MeHg	890.793	61.8	128.4	209.92	209.92	74.4	6.288	OK	209.9058	0.00	-0.01	
SEQ-CAL4 HgII	33.648	142.5	182.8	209.92	209.92	159.8	0.172	OK	209.9058	0.00	-0.01	

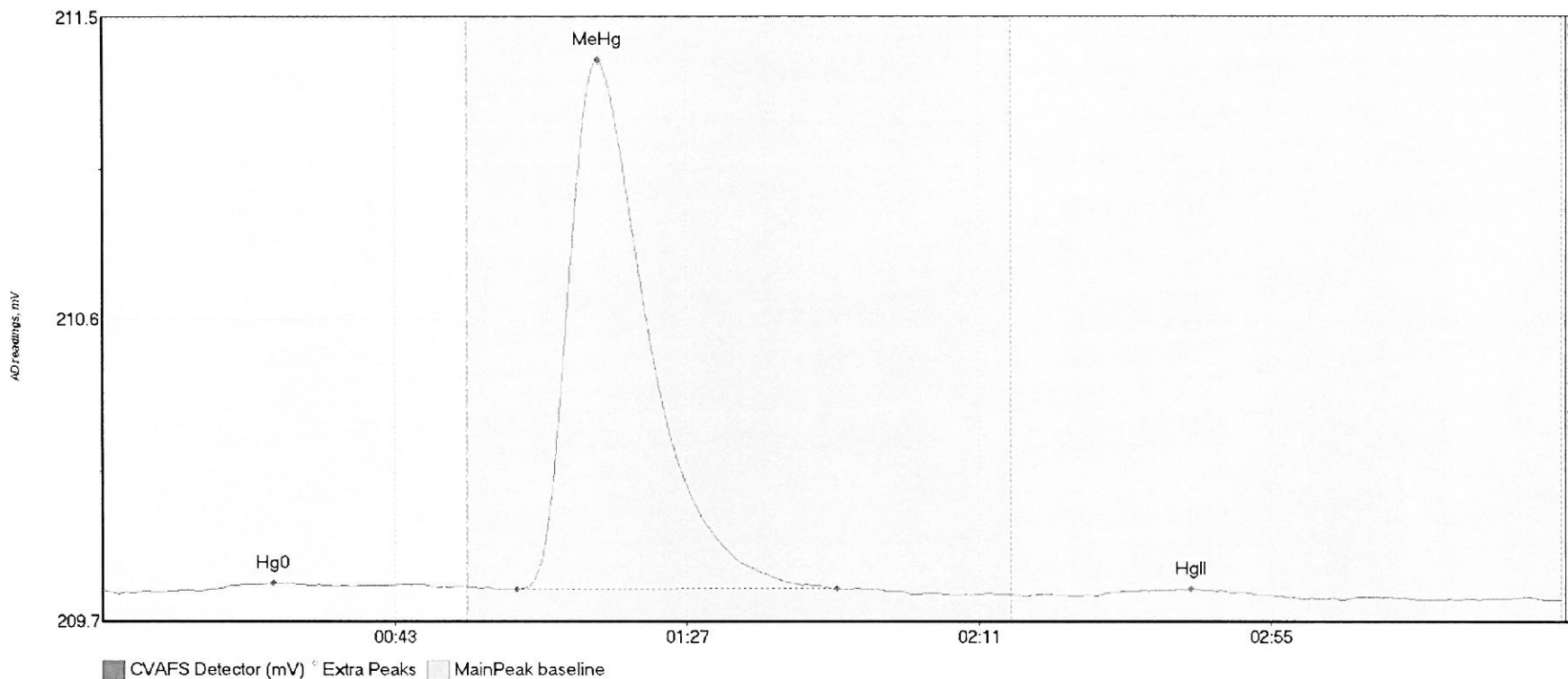
#8: SEQ-CAL5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL5 Hg0	6.417	14.7	55.0	209.82	209.84	39.3	0.042	CT	209.8193	0.00	0.01	
SEQ-CAL5 MeHg	1852.558	61.3	135.5	209.84	209.85	74.6	12.919	OK	209.8193	0.00	0.01	
SEQ-CAL5 HgII	73.303	142.5	190.1	209.85	209.84	160.6	0.350	OK	209.8193	0.00	0.01	

017

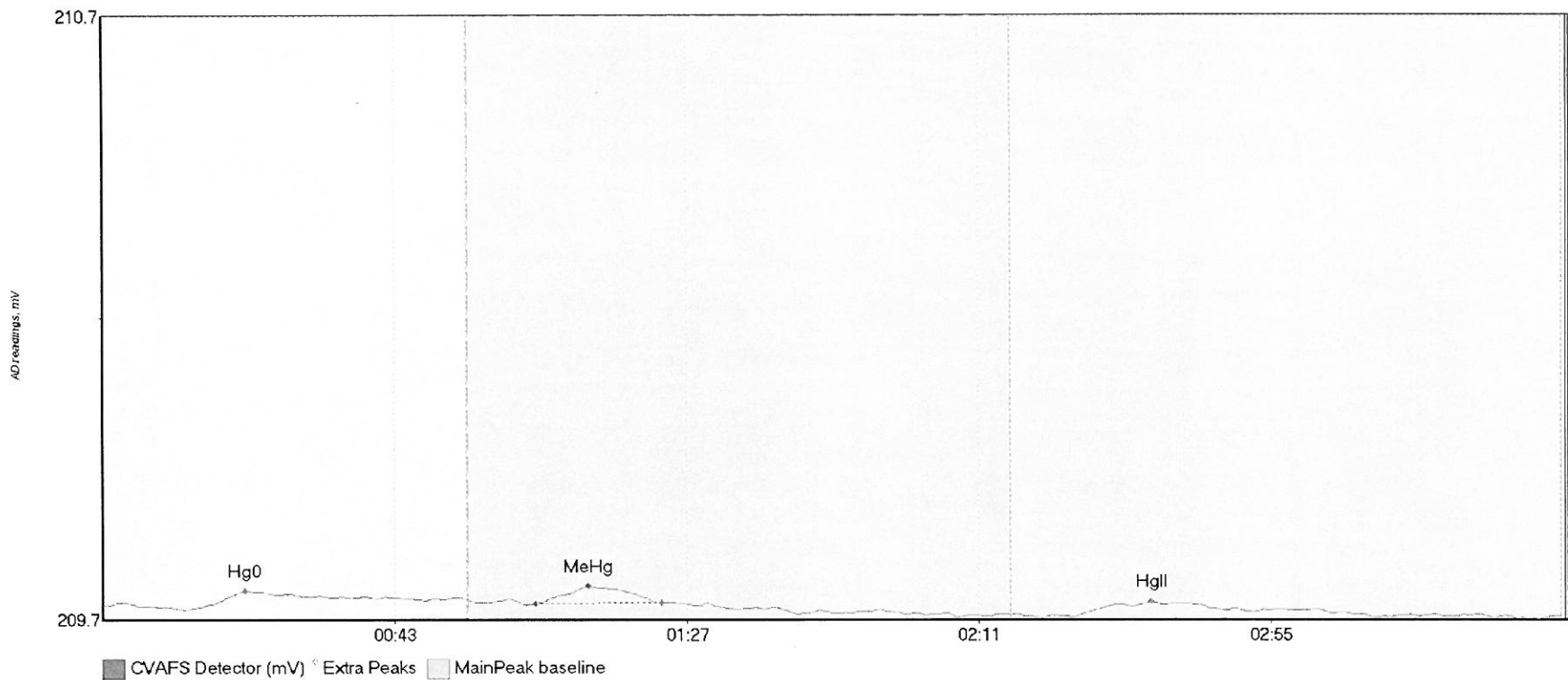
#9: SEQ-ICV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICV1 Hg0	3.469	16.4	55.0	209.77	209.78	25.7	0.019	CT	209.7684	0.00	-0.03	
SEQ-ICV1 MeHg	223.209	62.4	110.6	209.77	209.77	74.7	1.613	OK	209.7684	0.00	-0.03	
SEQ-ICV1 HgII	2.985	149.8	174.3	209.75	209.76	164.0	0.019	OK	209.7684	0.00	-0.03	

017

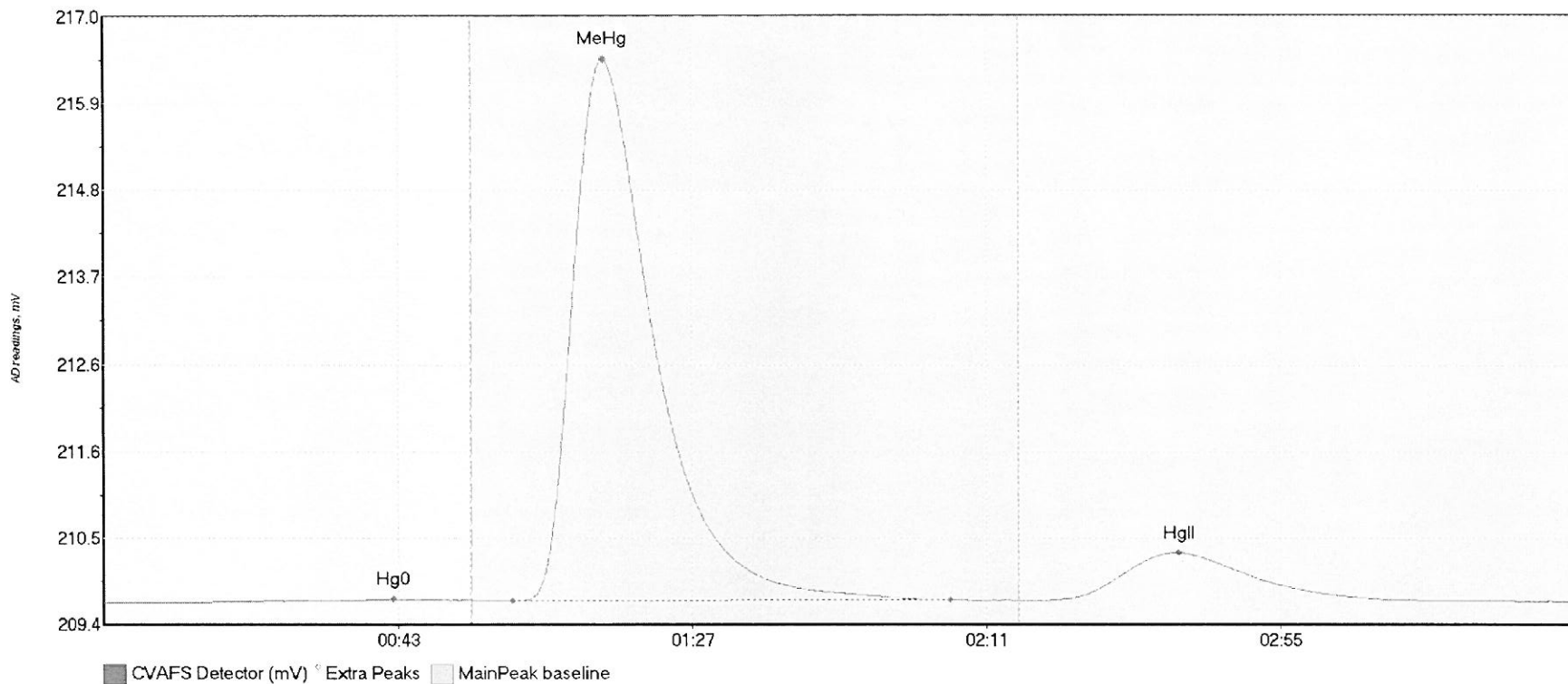
#10: SEQ-ICB1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICB1 Hg0	3.183	16.4	48.6	209.72	209.73	21.5	0.022	OK	209.7199	0.00	-0.02	
SEQ-ICB1 MeHg	3.066	65.1	84.1	209.72	209.72	73.2	0.029	OK	209.7199	0.00	-0.02	
SEQ-ICB1 HgII	3.185	146.4	172.6	209.70	209.71	158.1	0.025	OK	209.7199	0.00	-0.02	

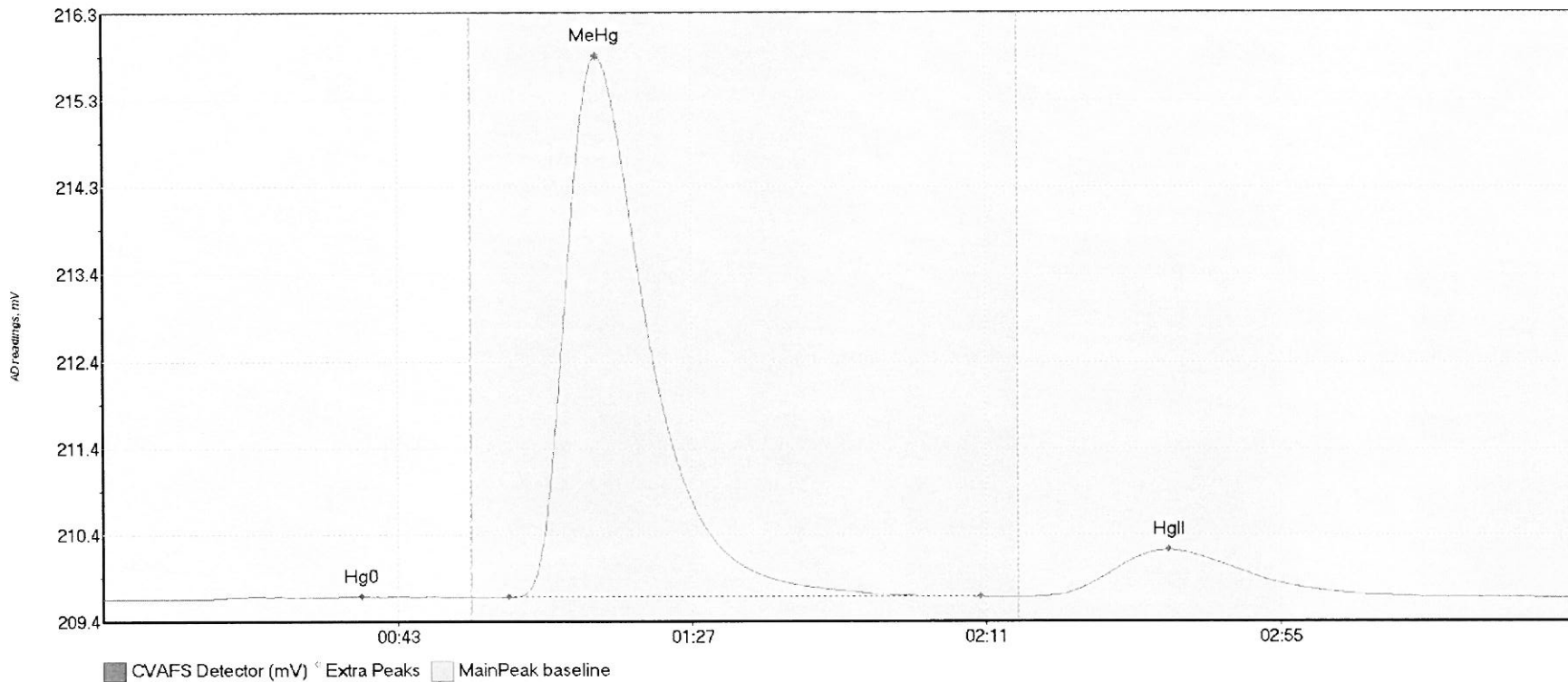
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#11: F708416-BS1



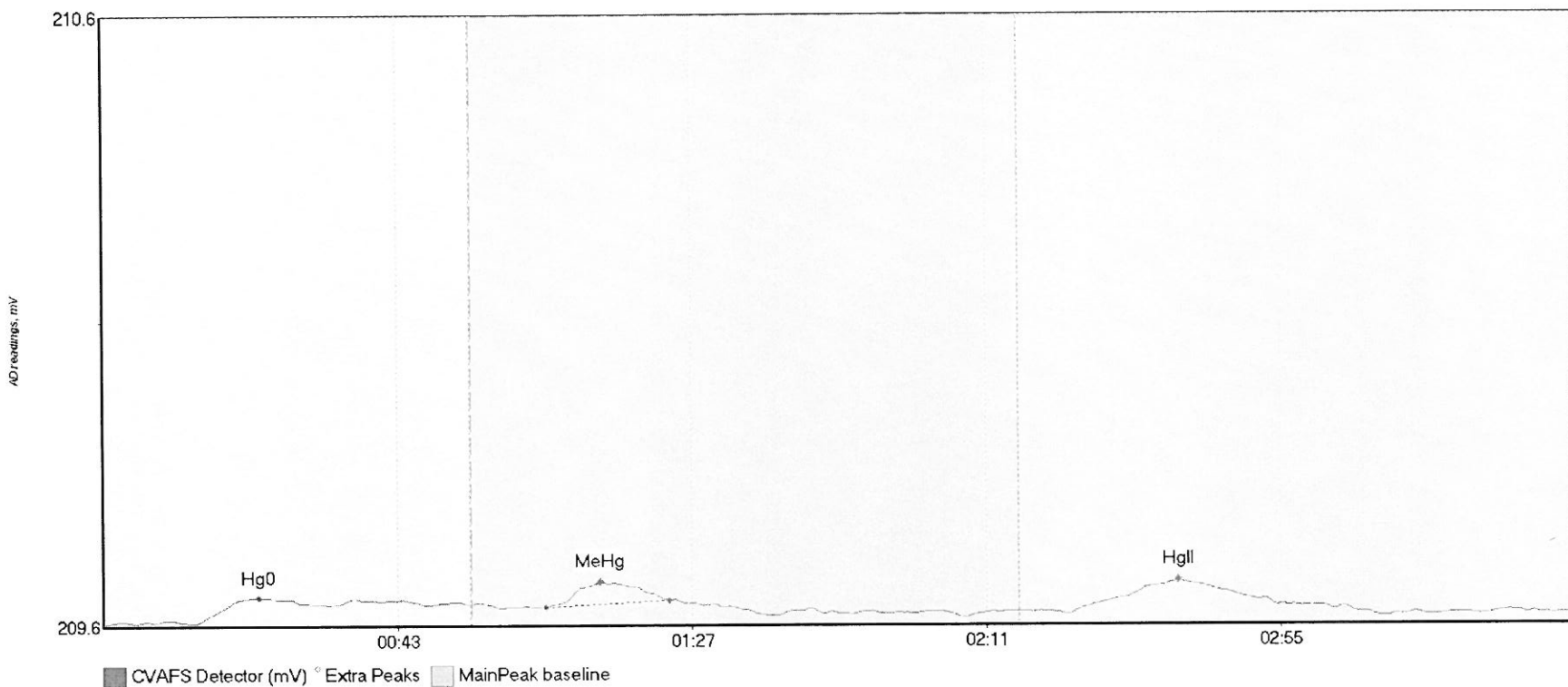
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708416-BS1 Hg0	4.229	13.1	53.2	209.67	209.71	43.3	0.042	OK	209.6720	0.00	0.02	
F708416-BS1 MeH	954.966	61.2	126.6	209.70	209.71	74.7	6.742	OK	209.6720	0.00	0.02	
F708416-BS1 HgI	127.621	140.6	194.3	209.70	209.71	160.9	0.596	OK	209.6720	0.00	0.02	

#12: F708416-BSD1



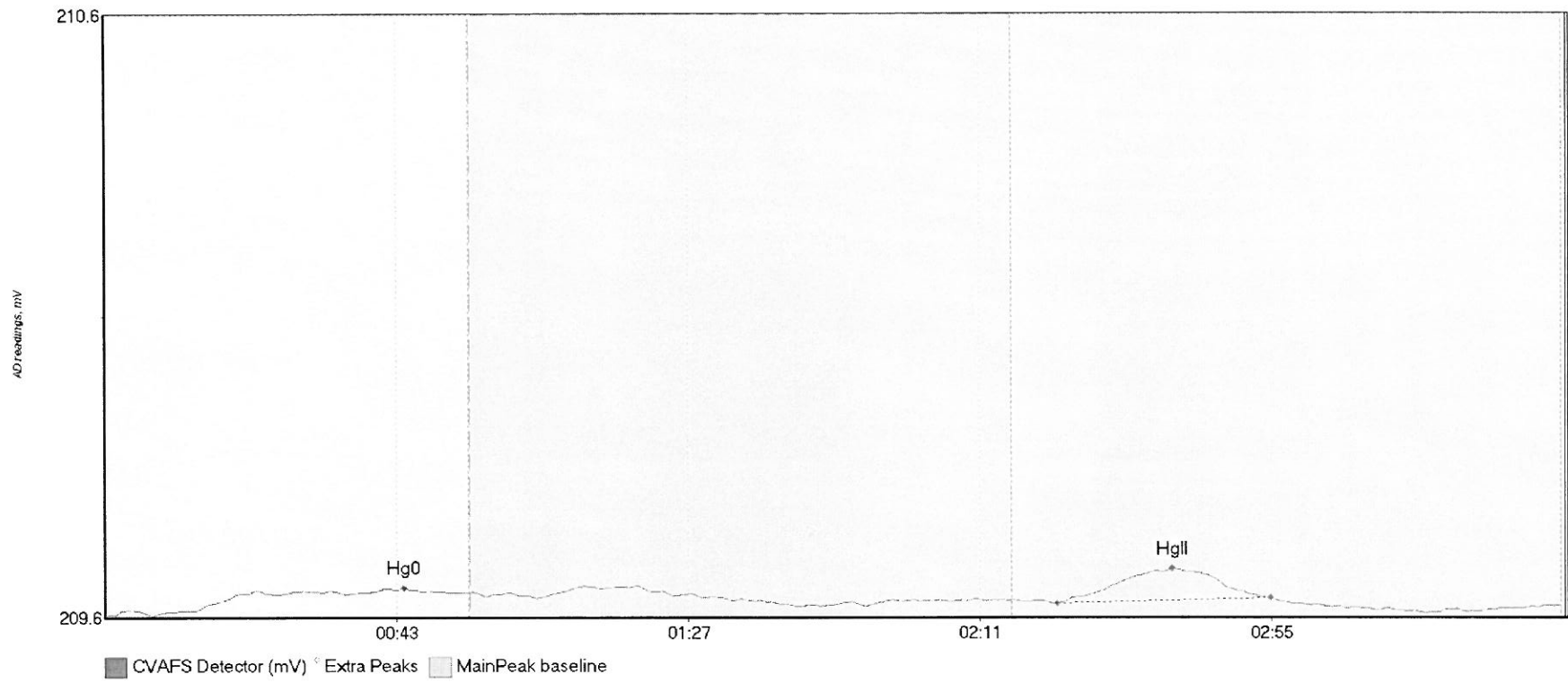
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708416-BSD1 Hg	5.233	15.7	55.0	209.66	209.68	38.6	0.030	CT	209.6528	0.00	0.01	
F708416-BSD1 Me	886.390	60.6	131.1	209.68	209.68	73.8	6.150	OK	209.6528	0.00	0.01	
F708416-BSD1 Hg	118.481	139.1	197.2	209.68	209.68	159.3	0.531	OK	209.6528	0.00	0.01	

#13: F708434-BLK1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708434-BLK1 Hg	6.303	13.8	48.3	209.63	209.66	23.3	0.042	OK	209.6308	0.00	0.01	
F708434-BLK1 Me	3.774	66.2	84.6	209.66	209.67	74.3	0.041	OK	209.6308	0.00	0.01	
F708434-BLK1 Hg	9.937	144.3	183.9	209.64	209.65	160.8	0.055	OK	209.6308	0.00	0.01	

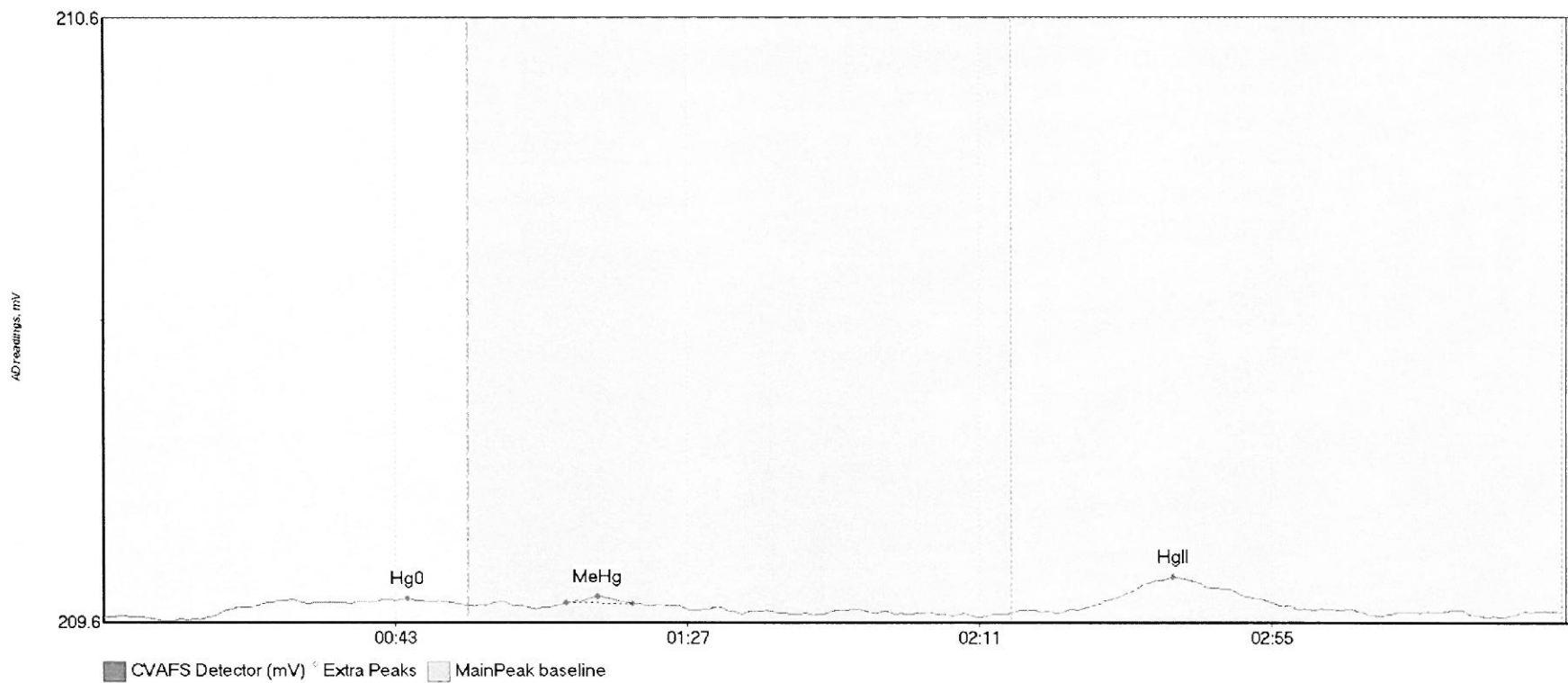
#14: F708434-BLK2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708434-BLK2 Hg	5.840	7.2	52.2	209.62	209.66	45.2	0.045	OK	209.6203	0.00	0.02	
F708434-BLK2 Hg	9.013	143.7	175.9	209.64	209.65	161.0	0.058	OK	209.6203	0.00	0.02	017



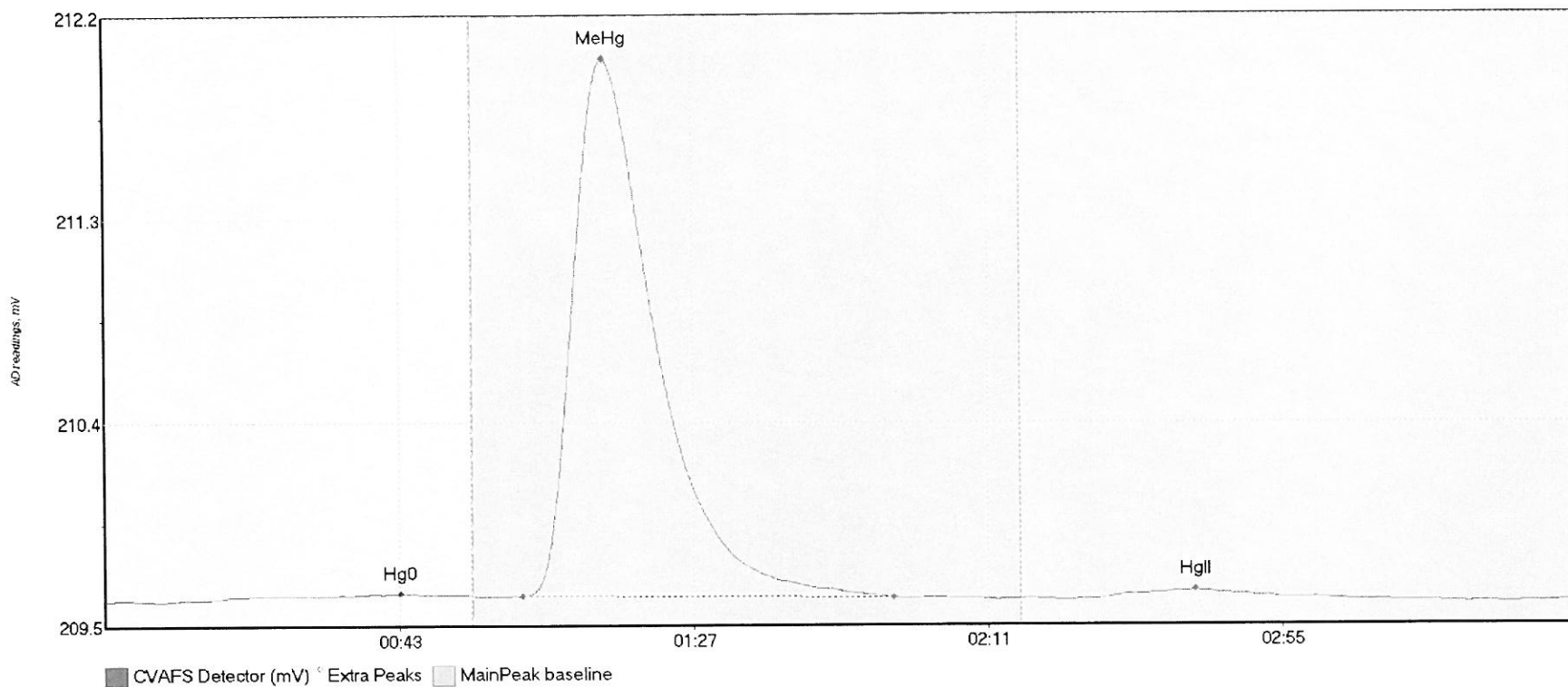
#15: F708434-BLK3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708434-BLK3 Hg	5.792	14.5	55.0	209.61	209.64	45.8	0.034	CT	209.6180	0.00	0.01	
F708434-BLK3 Me	0.638	69.7	79.8	209.64	209.64	74.4	0.011	OK	209.6180	0.00	0.01	
F708434-BLK3 Hg	9.124	146.8	180.2	209.63	209.63	161.2	0.054	OK	209.6180	0.00	0.01	

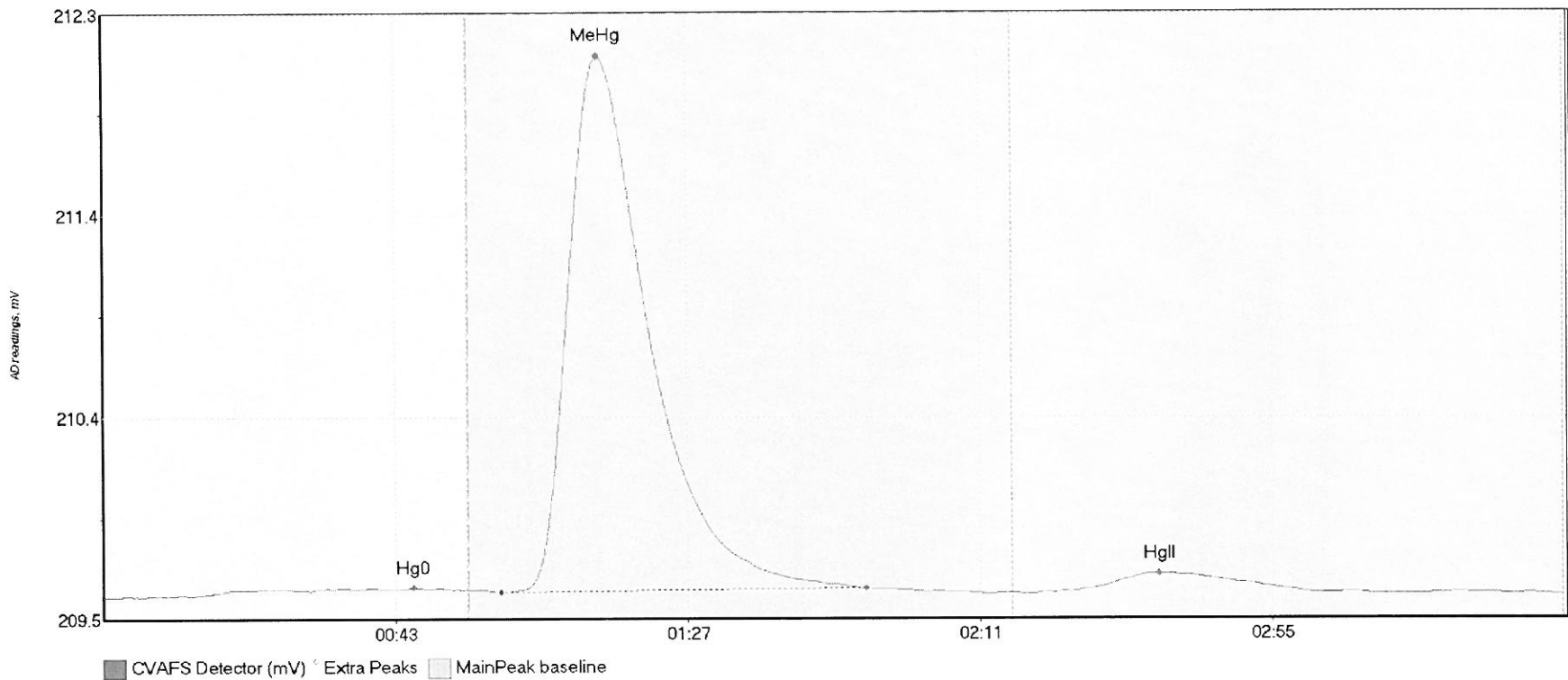
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#16: F708434-BS1



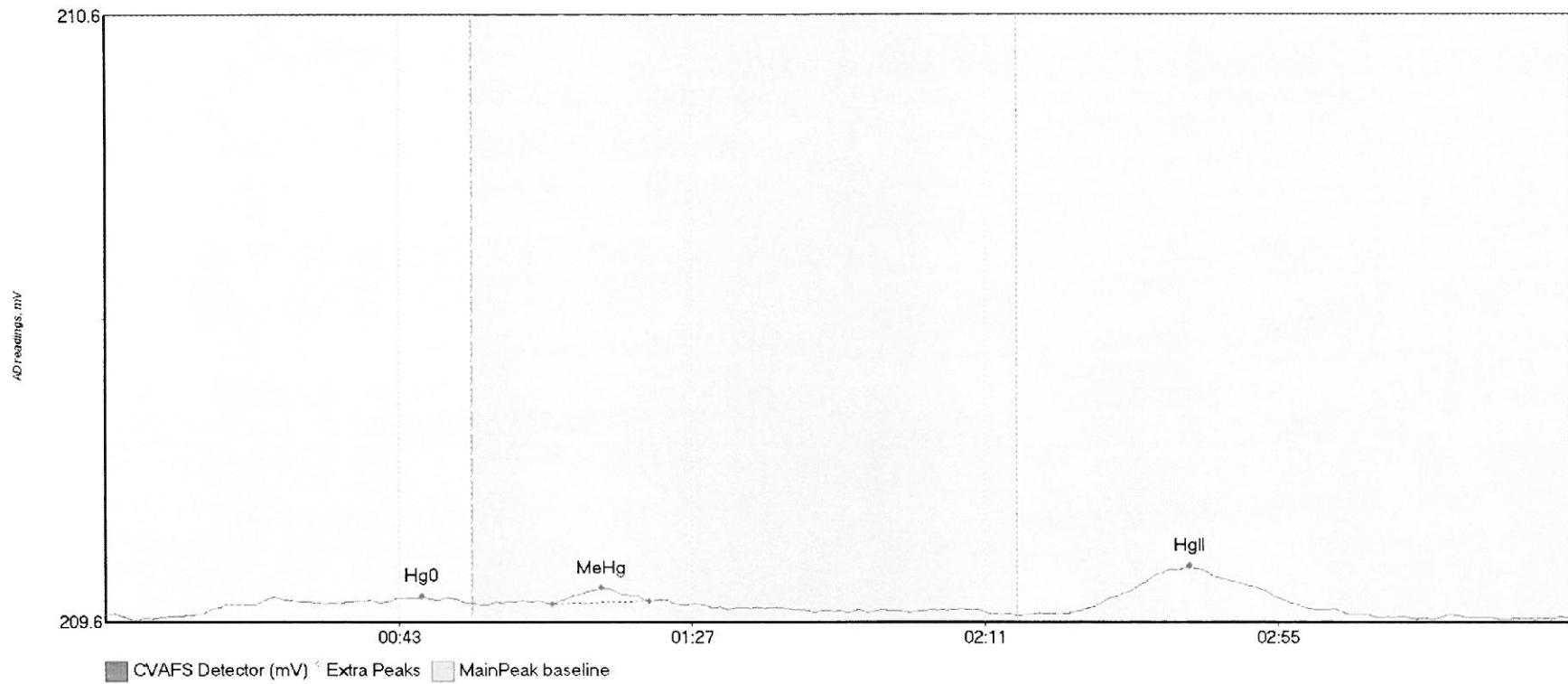
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708434-BS1 Hg0	4.128	14.5	55.0	209.62	209.64	44.2	0.026	CT	209.6181	0.00	0.00	
F708434-BS1 MeH	341.025	62.4	117.9	209.64	209.63	74.7	2.395	OK	209.6181	0.00	0.00	
F708434-BS1 HgI	5.678	148.4	176.5	209.62	209.63	163.0	0.038	OK	209.6181	0.00	0.00	

#17: F708434-BSD1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708434-BSD1 Hg	6.037	10.4	55.0	209.61	209.64	46.7	0.037	CT	209.6084	0.00	0.01	
F708434-BSD1 Me	347.799	59.8	114.8	209.63	209.64	74.6	2.472	OK	209.6084	0.00	0.01	
F708434-BSD1 Hg	17.526	143.2	181.9	209.63	209.63	159.0	0.088	OK	209.6084	0.00	0.01	

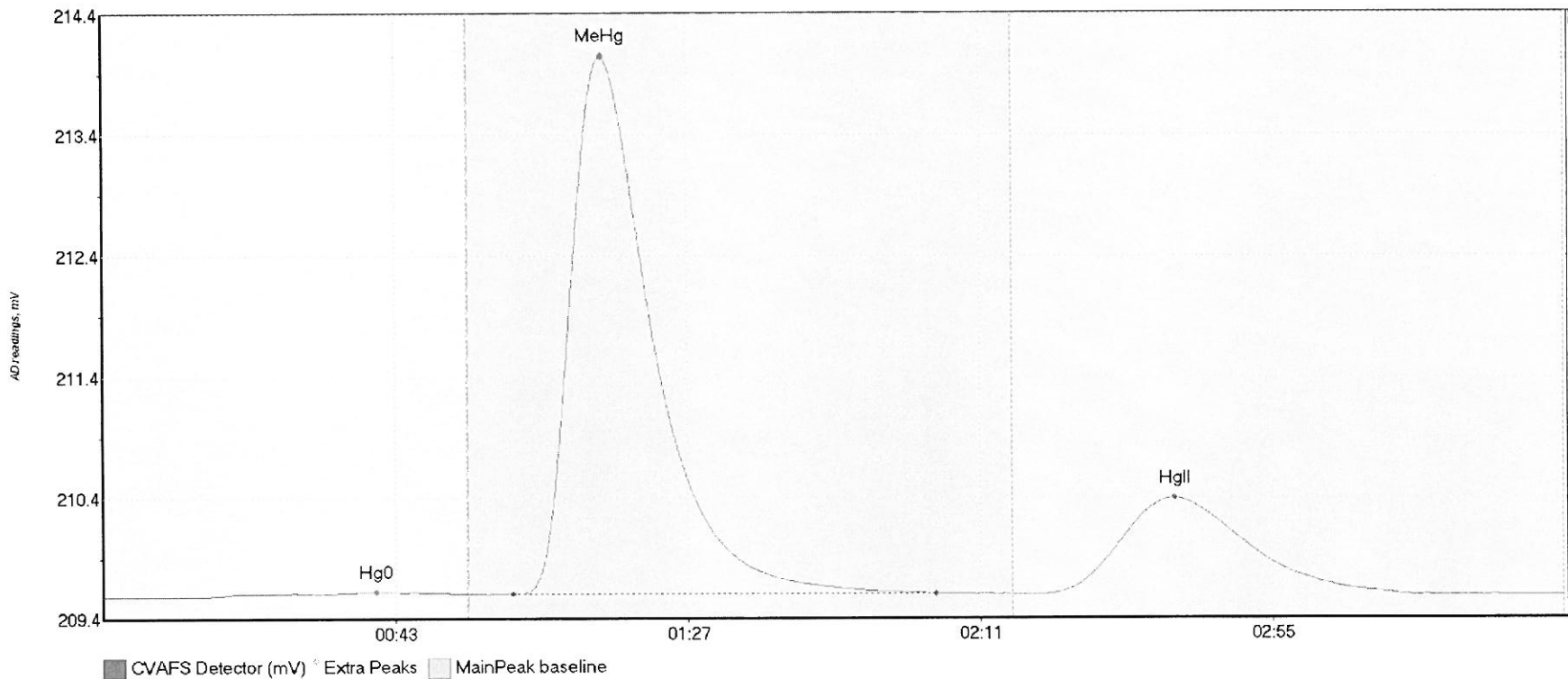
#18: F708434-DUP1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708434-DUP1 Hg	4.433	14.2	54.2	209.62	209.63	47.5	0.029	OK	209.6142	0.00	0.00	
F708434-DUP1 Me	1.891	67.0	81.6	209.63	209.64	74.5	0.027	OK	209.6142	0.00	0.00	
F708434-DUP1 Hg	15.336	144.8	186.3	209.62	209.62	162.8	0.076	OK	209.6142	0.00	0.00	

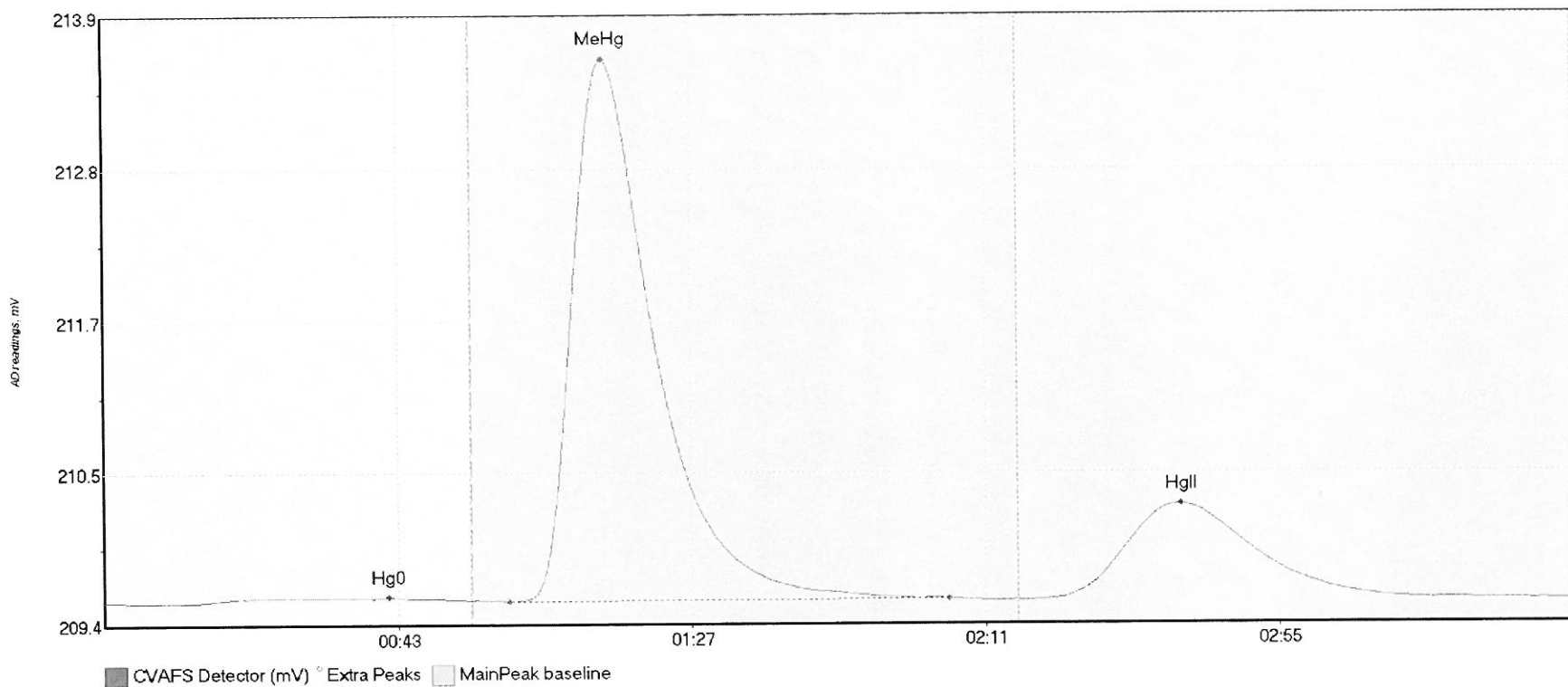
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#19: F708434-MS1



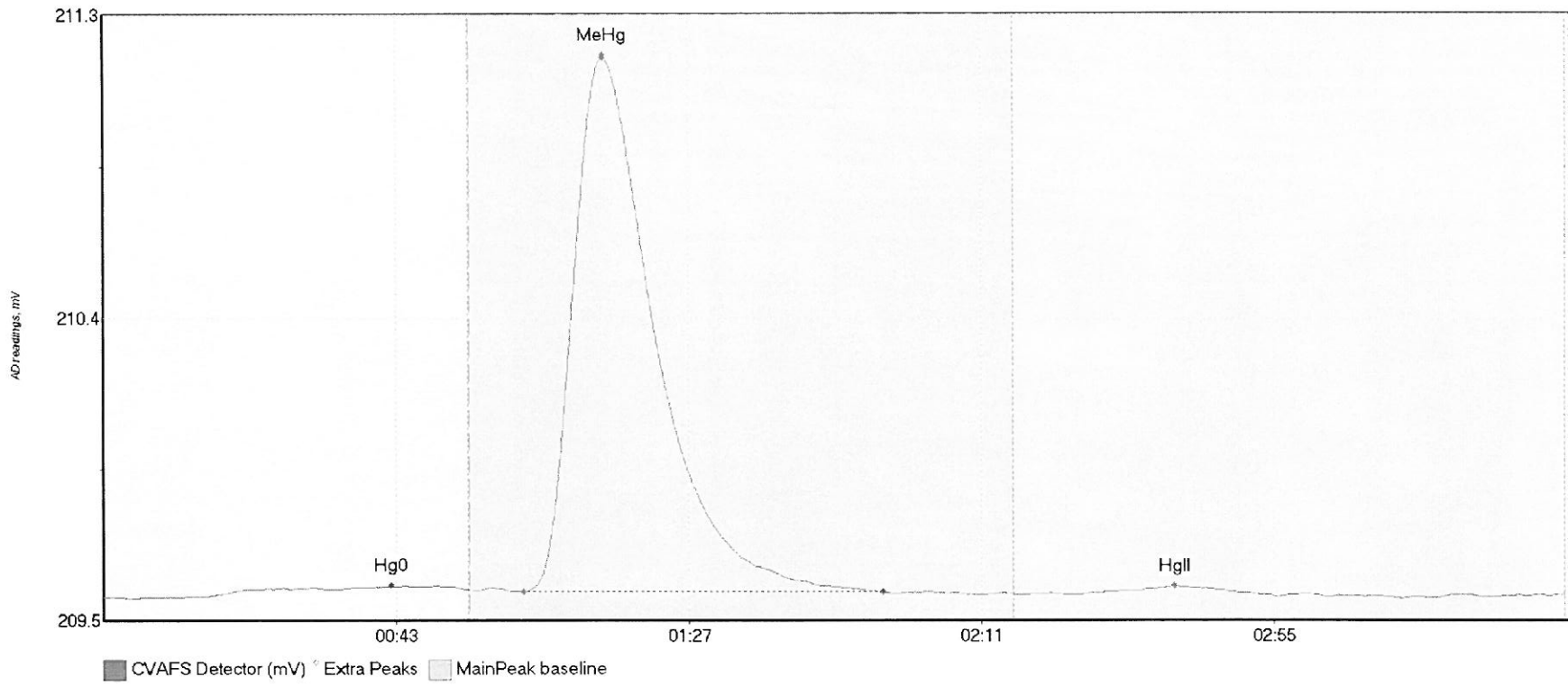
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708434-MS1 Hg0	5.258	16.0	53.4	209.60	209.62	41.2	0.037	OK	209.6012	0.00	0.00	
F708434-MS1 MeH	626.715	61.7	125.3	209.62	209.62	75.1	4.412	OK	209.6012	0.00	0.00	
F708434-MS1 HgI	173.814	141.0	197.4	209.61	209.61	161.3	0.797	OK	209.6012	0.00	0.00	

#20: F708434-MSD1



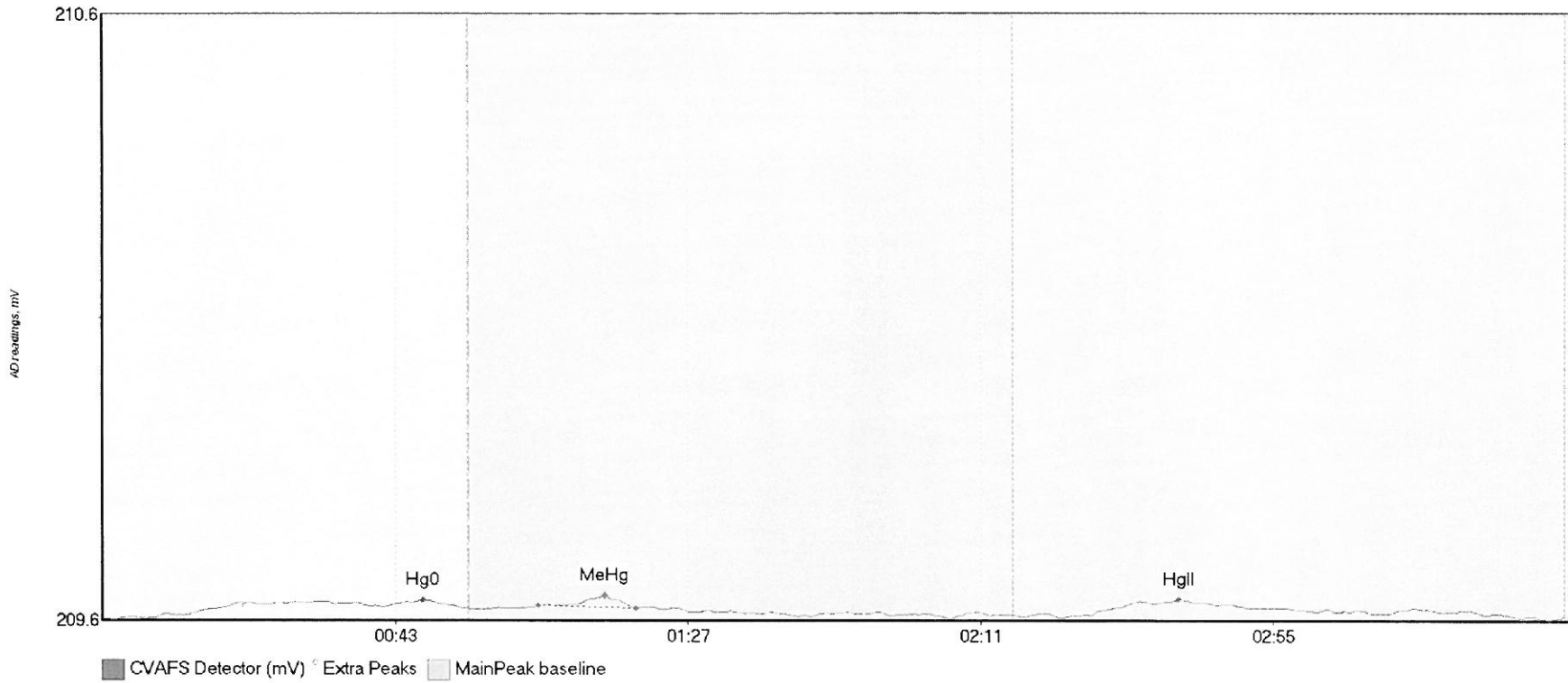
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708434-MSD1 Hg	8.479	14.0	54.8	209.58	209.60	42.6	0.039	OK	209.5846	0.00	0.00	
F708434-MSD1 Me	568.738	60.6	126.5	209.59	209.60	74.9	3.991	OK	209.5846	0.00	0.00	
F708434-MSD1 Hg	154.559	140.8	205.9	209.60	209.59	161.3	0.700	OK	209.5846	0.00	0.00	

#21: SEQ-CCV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0	5.230	15.2	54.9	209.57	209.59	43.3	0.031	OK	209.5689	0.00	0.01	
SEQ-CCV1 MeHg	221.105	63.1	117.1	209.59	209.58	75.2	1.552	OK	209.5689	0.00	0.01	
SEQ-CCV1 HgII	2.137	149.5	171.2	209.58	209.58	161.0	0.020	OK	209.5689	0.00	0.01	

#22: SEQ-CCB1

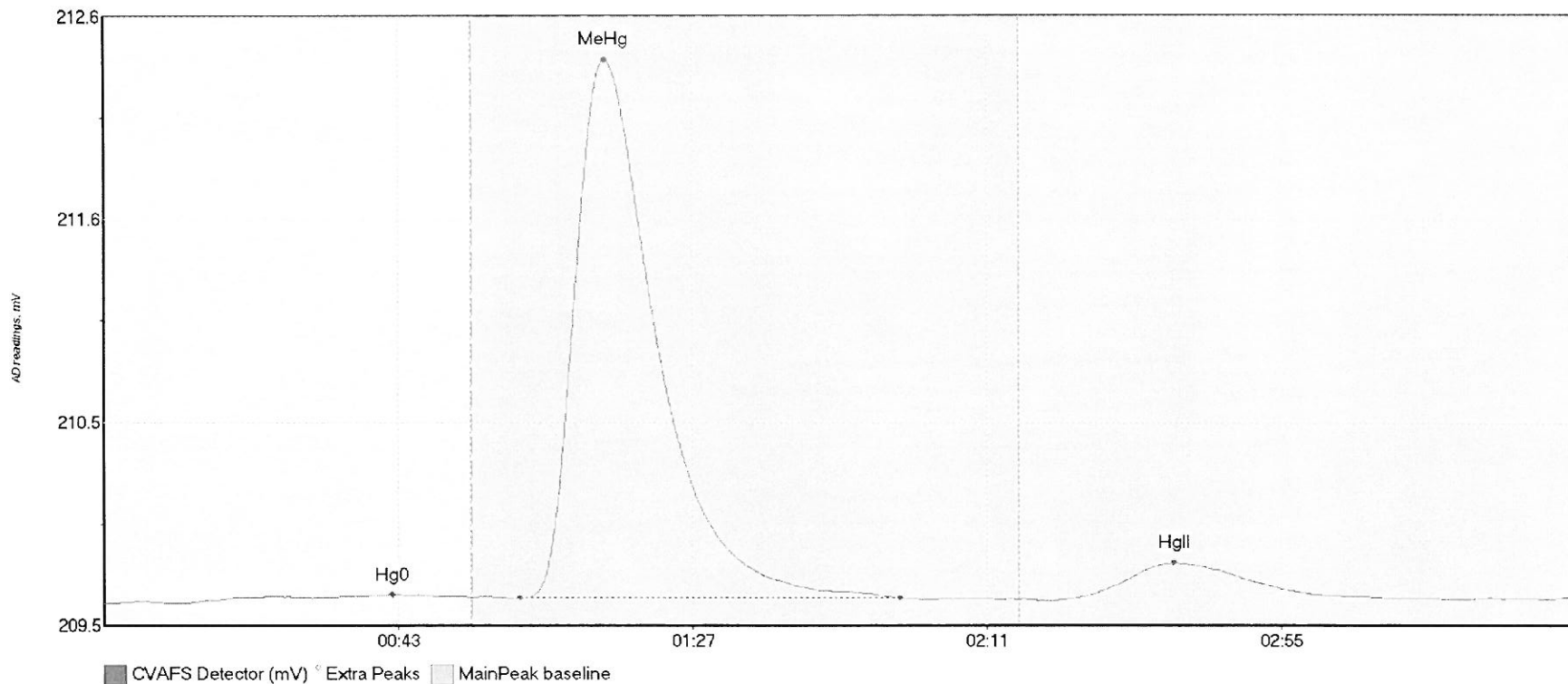


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB1 Hg0	5.895	8.1	55.0	209.57	209.58	48.2	0.029	CT	209.5642	0.00	0.00	
SEQ-CCB1 MeHg	1.170	65.5	80.1	209.58	209.58	75.5	0.017	OK	209.5642	0.00	0.00	
SEQ-CCB1 HgII	5.545	148.5	191.3	209.57	209.57	161.7	0.026	OK	209.5642	0.00	0.00	

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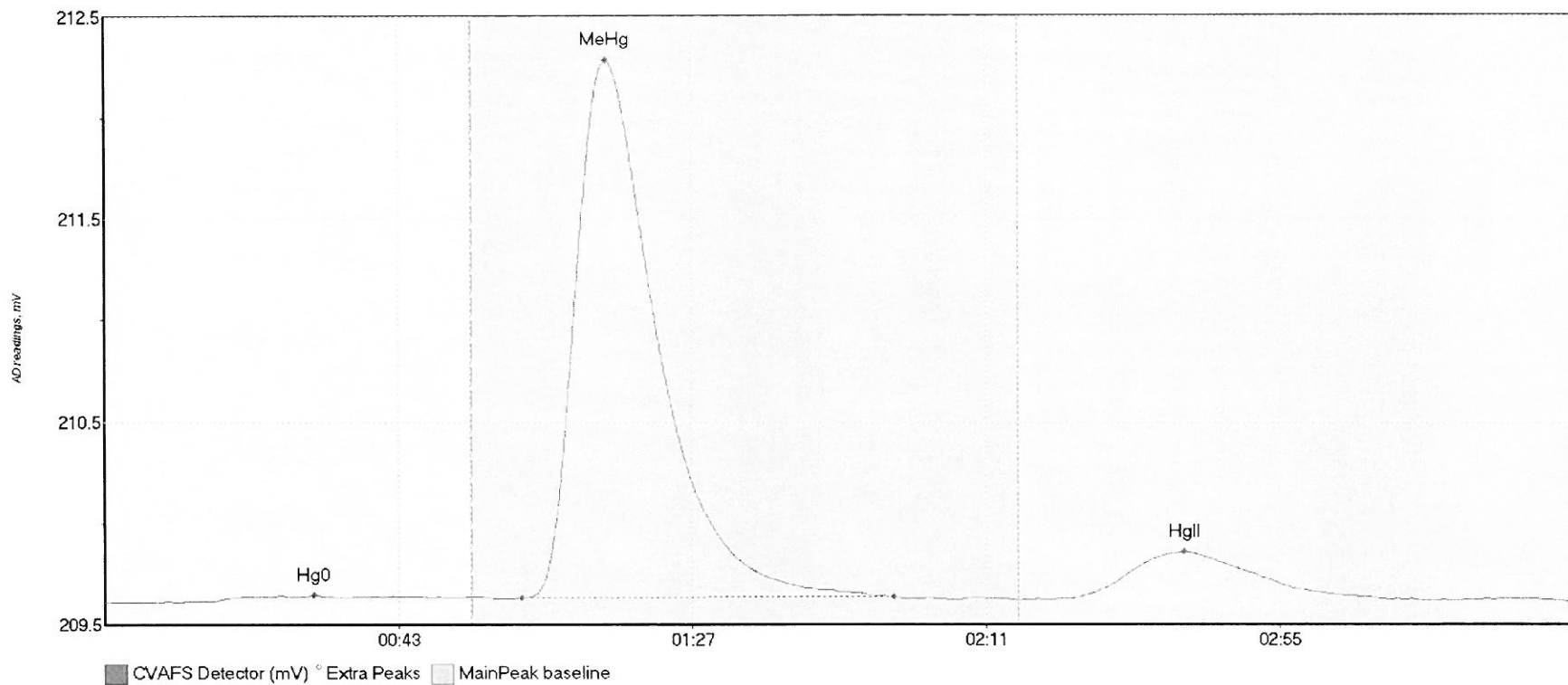
#23: F708434-MS2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708434-MS2 Hg0	7.227	12.3	54.9	209.57	209.60	43.1	0.044	OK	209.5697	0.00	0.03	
F708434-MS2 MeH	398.340	62.1	119.0	209.60	209.60	74.9	2.807	OK	209.5697	0.00	0.03	
F708434-MS2 HgI	38.649	143.0	191.6	209.59	209.60	160.1	0.192	OK	209.5697	0.00	0.03	

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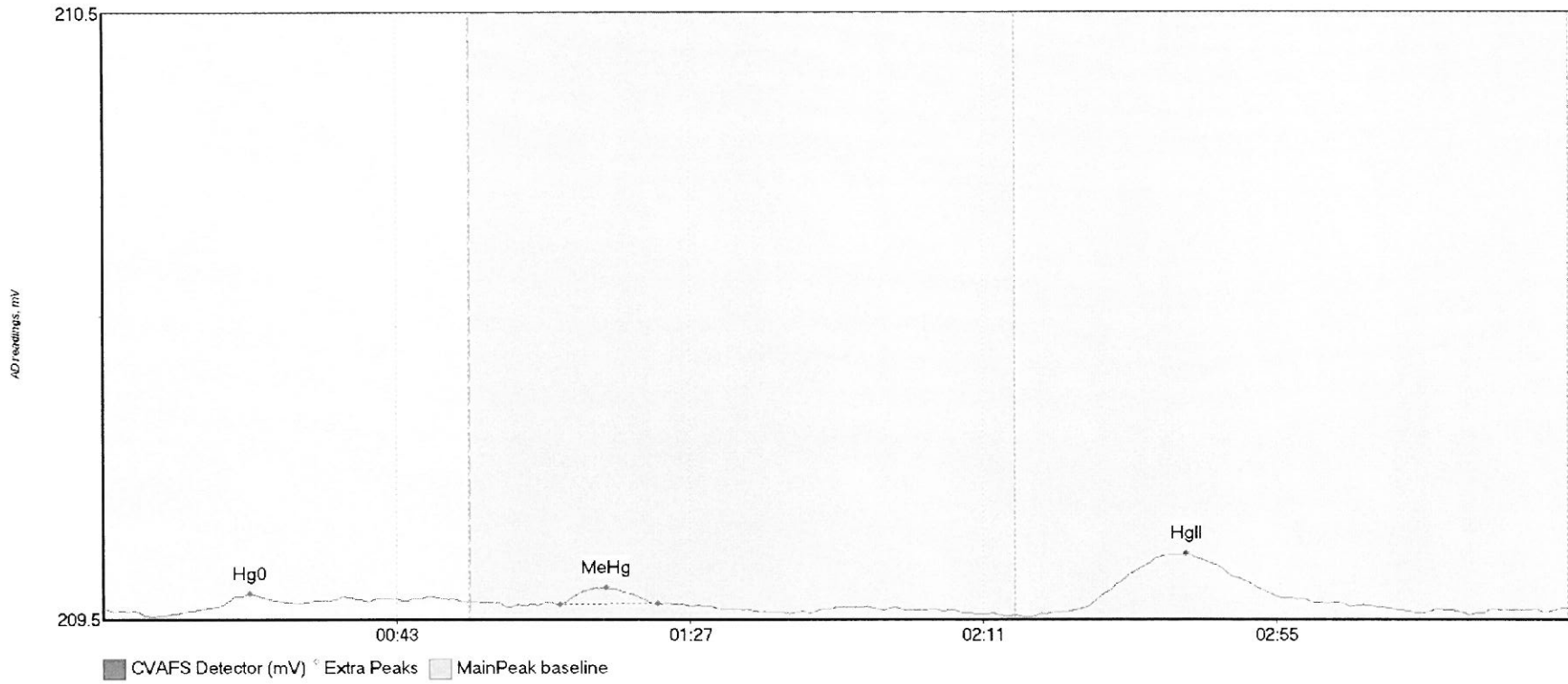
#24: F708434-MSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708434-MSD2 Hg	5.122	16.0	53.0	209.57	209.59	31.3	0.030	OK	209.5669	0.00	0.01	
F708434-MSD2 Me	385.871	62.5	118.1	209.59	209.59	75.2	2.720	OK	209.5669	0.00	0.01	
F708434-MSD2 Hg	51.180	141.1	192.7	209.58	209.58	161.7	0.242	OK	209.5669	0.00	0.01	

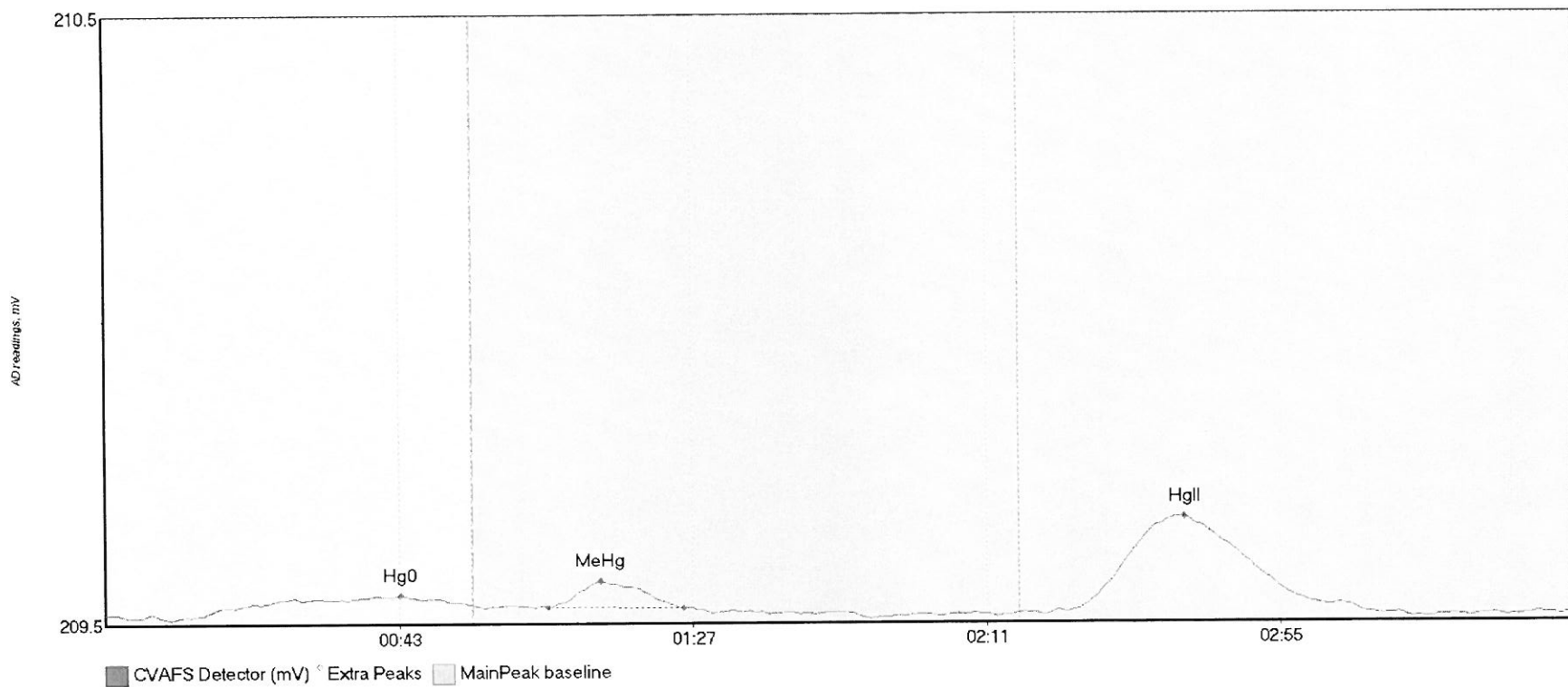
017

#25: 1707702-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707702-01 Hg0	1.254	15.8	29.4	209.56	209.57	22.0	0.024	OK	209.5619	0.00	0.00	
1707702-01 MeHg	2.450	68.4	83.1	209.57	209.57	75.4	0.027	OK	209.5619	0.00	0.00	
1707702-01 HgII	22.118	141.4	197.0	209.55	209.56	162.5	0.099	OK	209.5619	0.00	0.00	

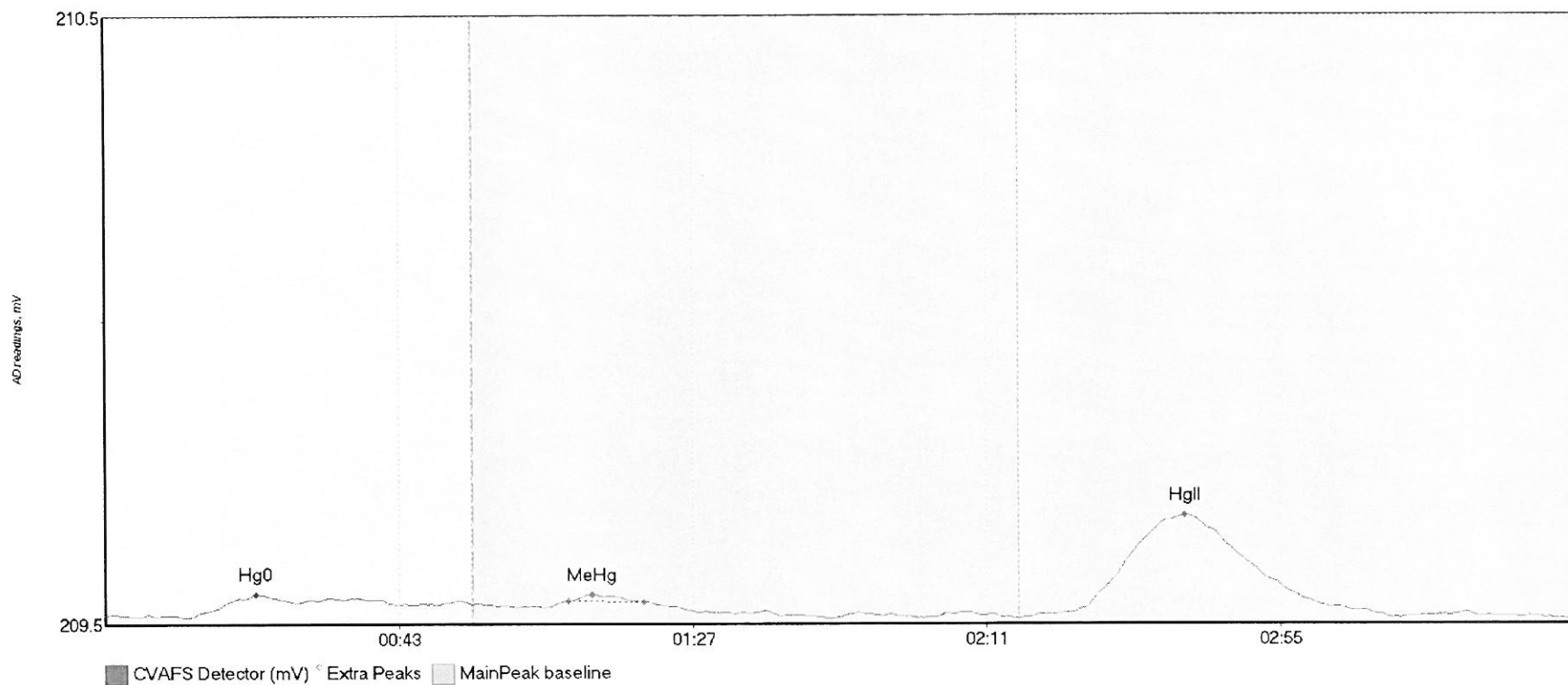
#26: 1707703-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707703-01 Hg0	6.052	14.0	55.0	209.55	209.57	44.1	0.033	CT	209.5559	0.00	0.00	
1707703-01 MeHg	4.712	66.3	86.6	209.57	209.56	74.1	0.043	OK	209.5559	0.00	0.00	
1707703-01 HgII	31.509	144.0	188.5	209.56	209.56	161.8	0.157	OK	209.5559	0.00	0.00	

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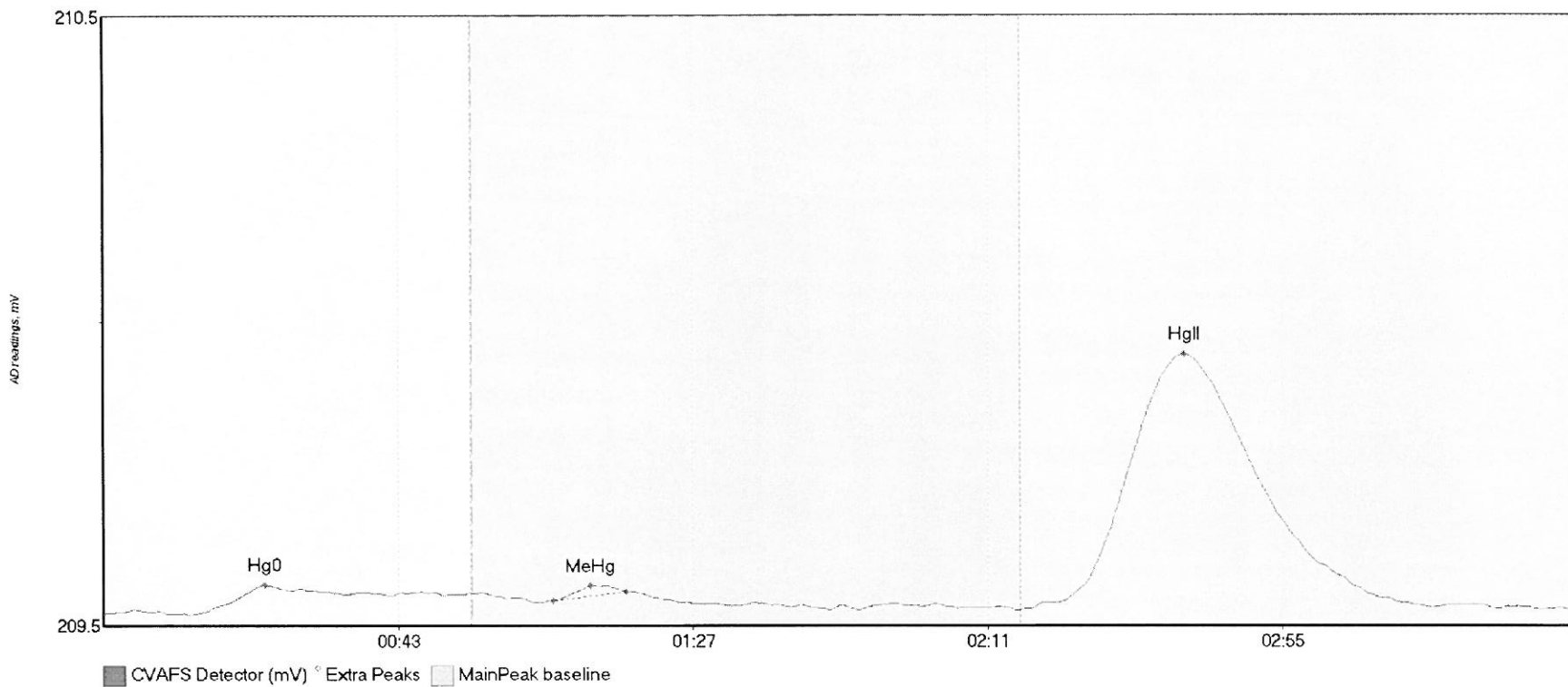
#27: 1707704-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707704-01 Hg0	5.172	12.1	46.2	209.54	209.56	22.6	0.038	OK	209.5447	0.00	-0.01	
1707704-01 MeHg	0.693	69.3	80.6	209.57	209.57	72.8	0.010	OK	209.5447	0.00	-0.01	
1707704-01 HgII	35.531	138.6	192.9	209.54	209.54	161.7	0.168	OK	209.5447	0.00	-0.01	

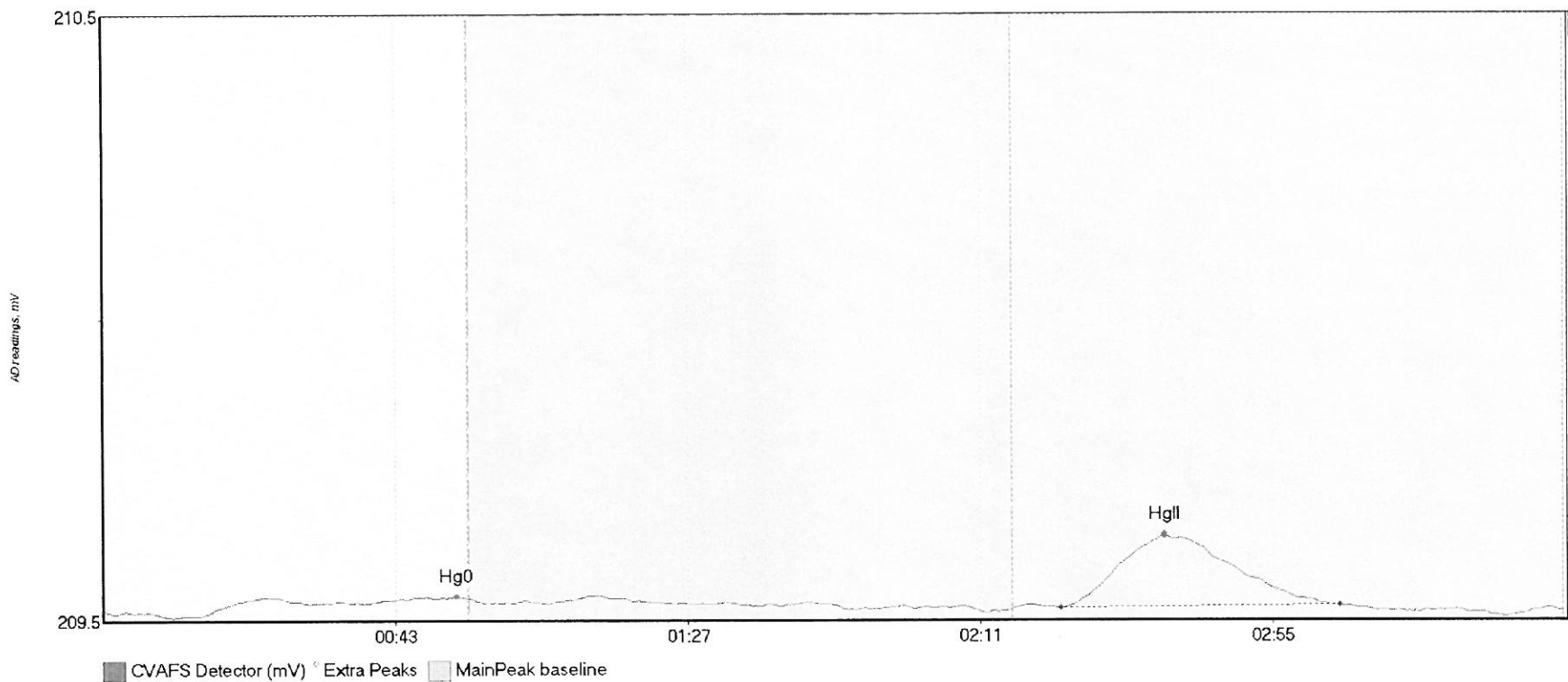
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#28: 1707704-02



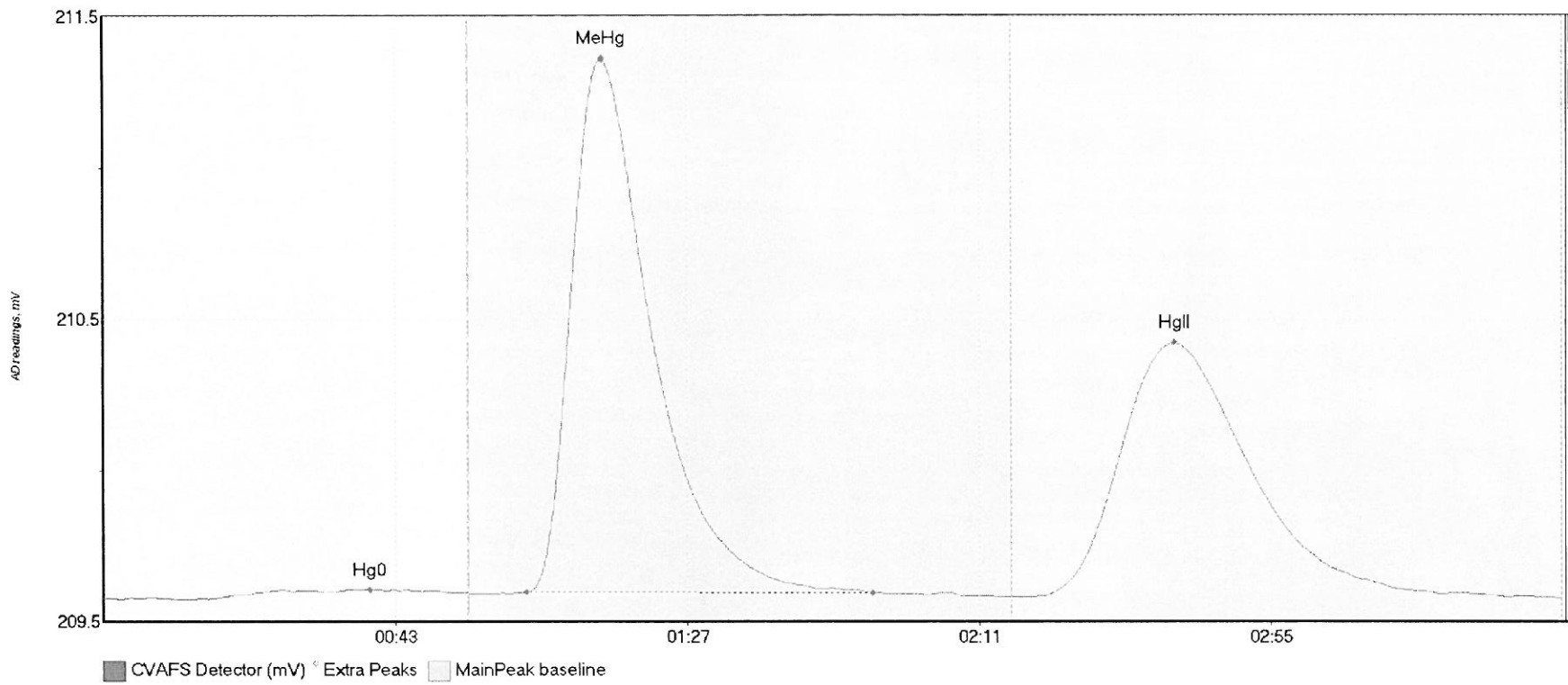
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707704-02 Hg0	4.956	13.3	42.6	209.54	209.57	24.2	0.049	OK	209.5381	0.00	0.01	
1707704-02 MeHg	0.969	67.1	78.0	209.56	209.57	72.7	0.024	OK	209.5381	0.00	0.01	
1707704-02 HgII	91.394	138.4	197.7	209.55	209.55	161.4	0.418	OK	209.5381	0.00	0.01	

#29: 1707732-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707732-01 Hg0	3.731	14.5	55.0	209.53	209.56	53.1	0.031	CT	209.5421	0.00	0.00	
1707732-01 HgII	22.837	144.2	186.2	209.55	209.55	159.7	0.119	OK	209.5421	0.00	0.00	017

#30: 1707732-02

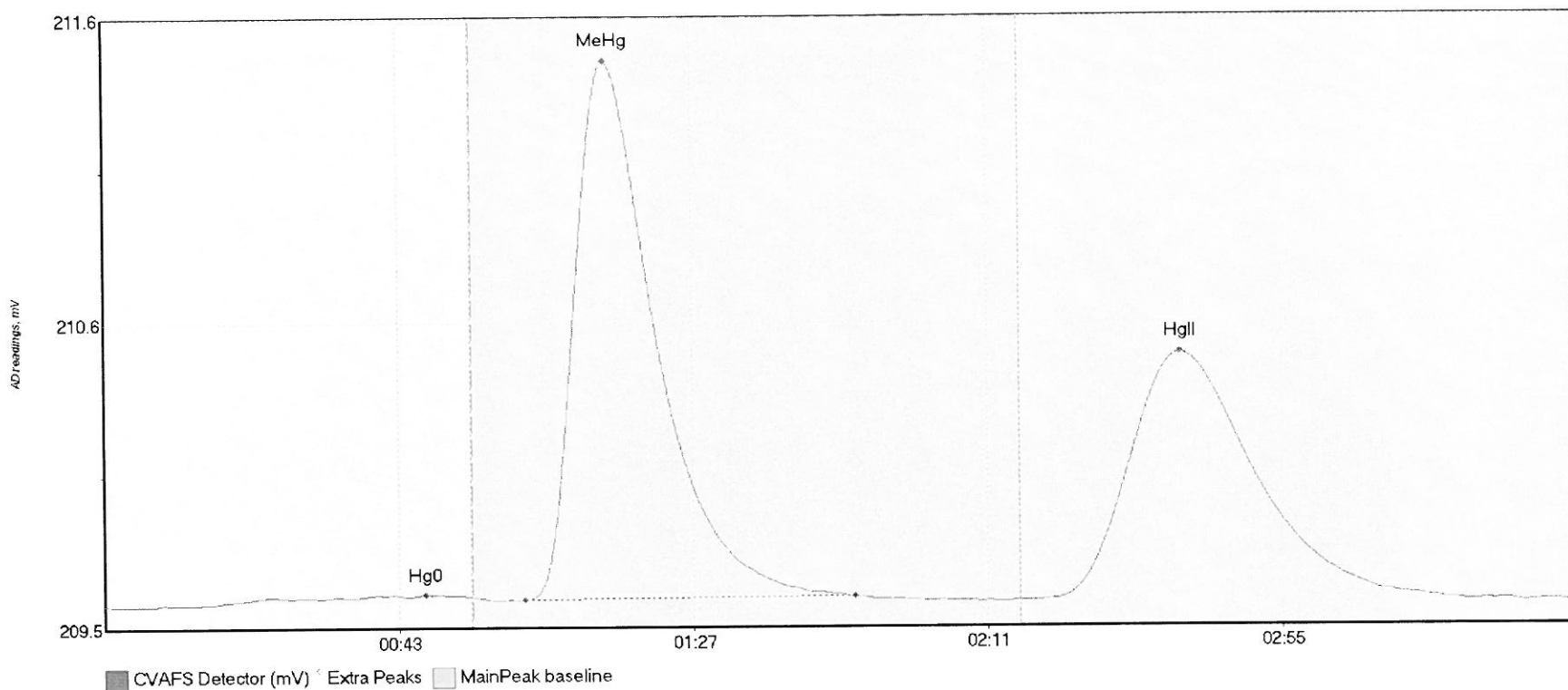


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707732-02 Hg0	5.566	15.7	55.0	209.54	209.56	40.1	0.032	CT	209.5402	0.00	0.01	
1707732-02 MeHg	254.390	63.7	115.9	209.56	209.56	75.1	1.809	OK	209.5402	0.00	0.01	
1707732-02 HgII	192.911	141.4	211.9	209.55	209.55	161.4	0.861	OK	209.5402	0.00	0.01	

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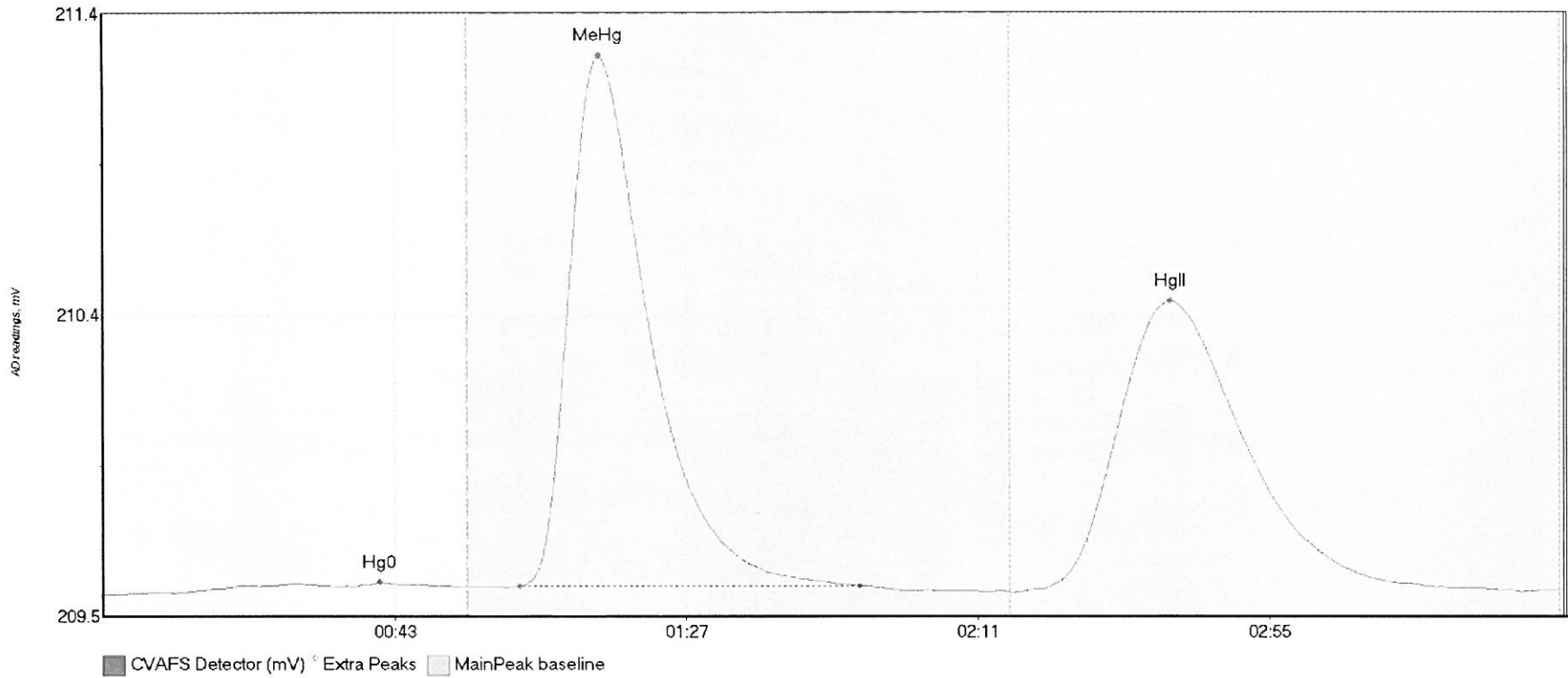
#31: 1707732-03



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707732-03 Hg0	4.793	13.1	55.0	209.54	209.56	48.0	0.035	CT	209.5356	0.00	0.00	
1707732-03 MeHg	269.631	62.8	112.1	209.55	209.56	75.0	1.940	OK	209.5356	0.00	0.00	
1707732-03 HgII	190.306	139.3	200.7	209.55	209.55	160.9	0.892	OK	209.5356	0.00	0.00	

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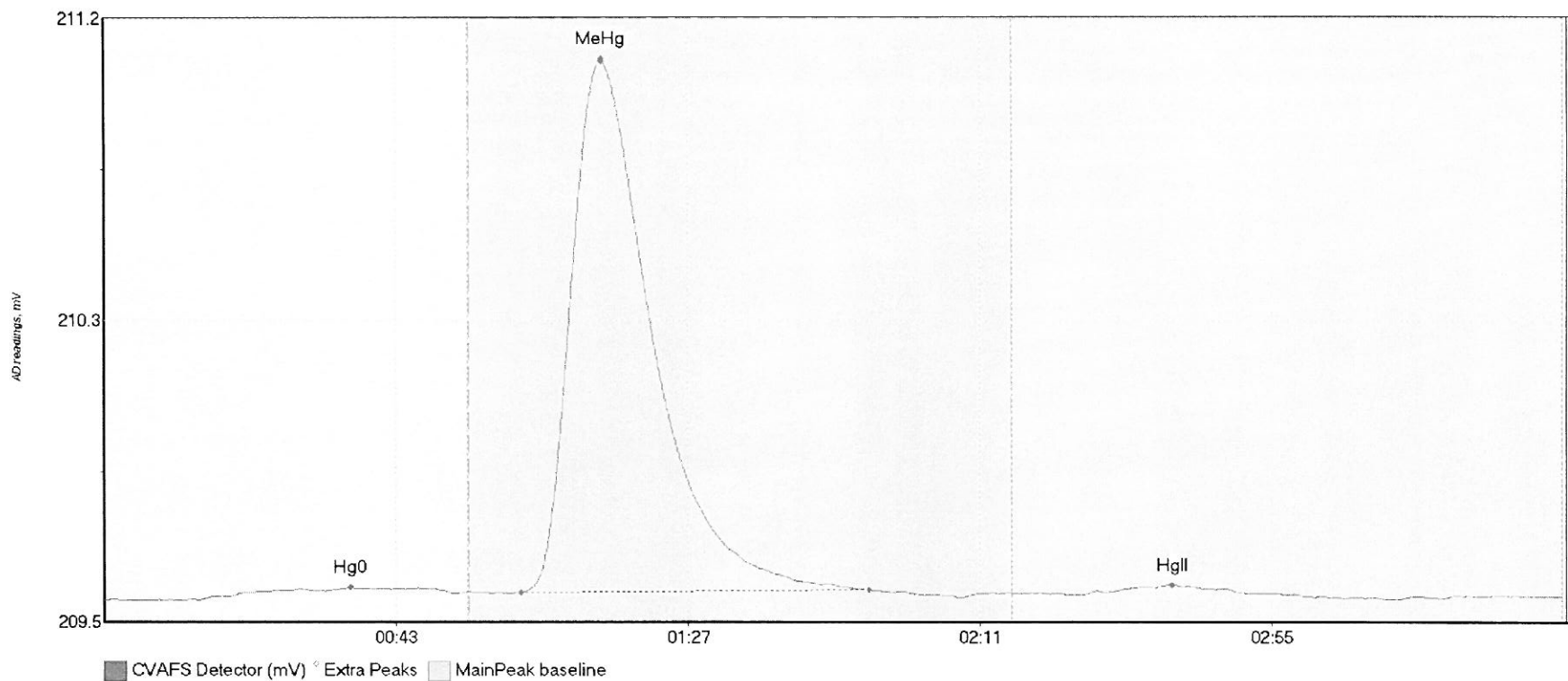
#32: 1707732-04



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707732-04 Hg0	5.002	10.7	53.2	209.53	209.56	41.7	0.035	OK	209.5298	0.00	0.02	
1707732-04 MeHg	241.493	62.8	114.1	209.55	209.56	74.9	1.726	OK	209.5298	0.00	0.02	
1707732-04 HgII	210.774	138.6	213.9	209.54	209.54	161.1	0.946	OK	209.5298	0.00	0.02	

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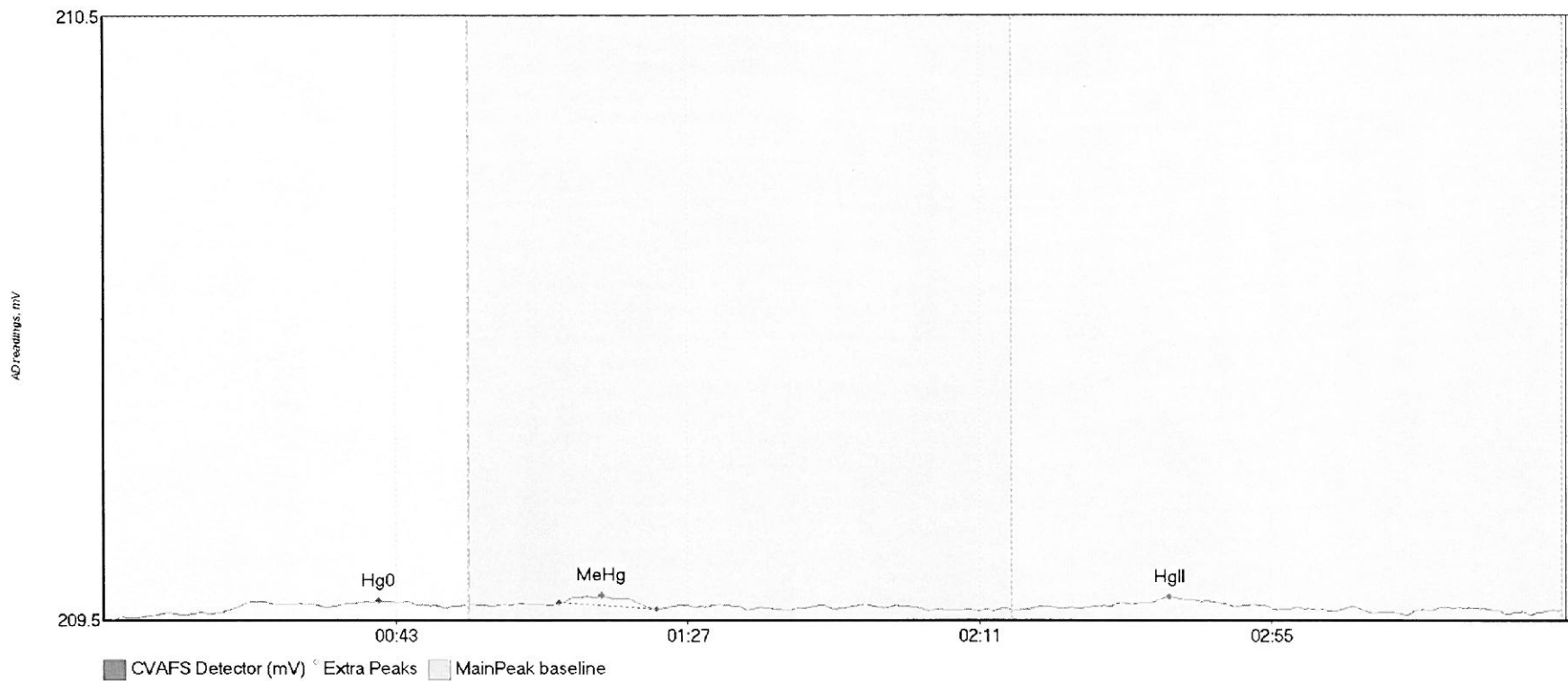
#33: SEQ-CCV2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV2 Hg0	6.307	14.4	52.9	209.53	209.54	37.1	0.034	OK	209.5244	0.00	0.01	
SEQ-CCV2 MeHg	212.964	62.9	115.3	209.55	209.55	75.0	1.503	OK	209.5244	0.00	0.01	
SEQ-CCV2 HgII	2.554	151.0	171.1	209.55	209.55	161.1	0.021	OK	209.5244	0.00	0.01	

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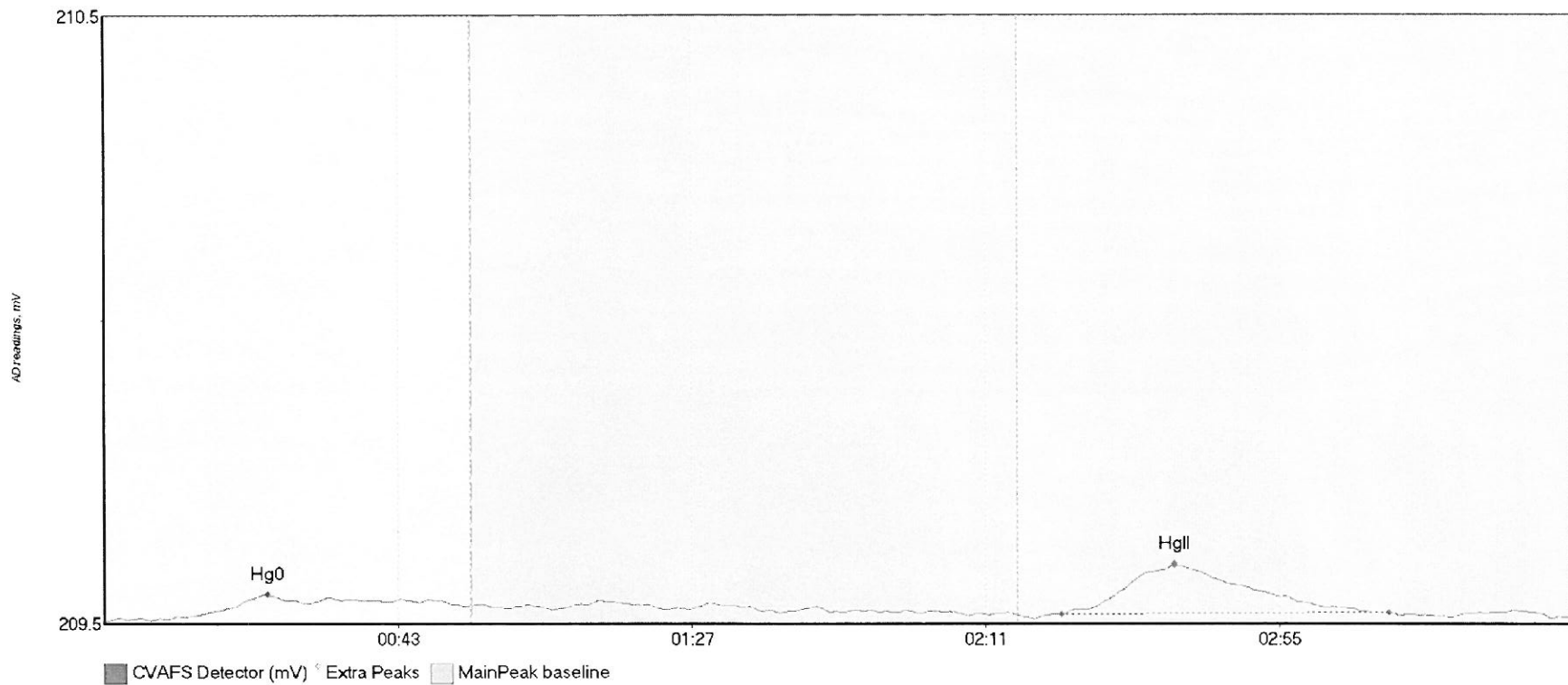
#34: SEQ-CCB2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB2 Hg0	3.836	7.6	51.3	209.54	209.55	41.5	0.024	OK	209.5307	0.00	0.01	
SEQ-CCB2 MeHg	1.575	68.6	83.3	209.56	209.55	75.0	0.012	OK	209.5307	0.00	0.01	
SEQ-CCB2 HgII	2.721	147.8	176.9	209.55	209.54	160.6	0.019	OK	209.5307	0.00	0.01	

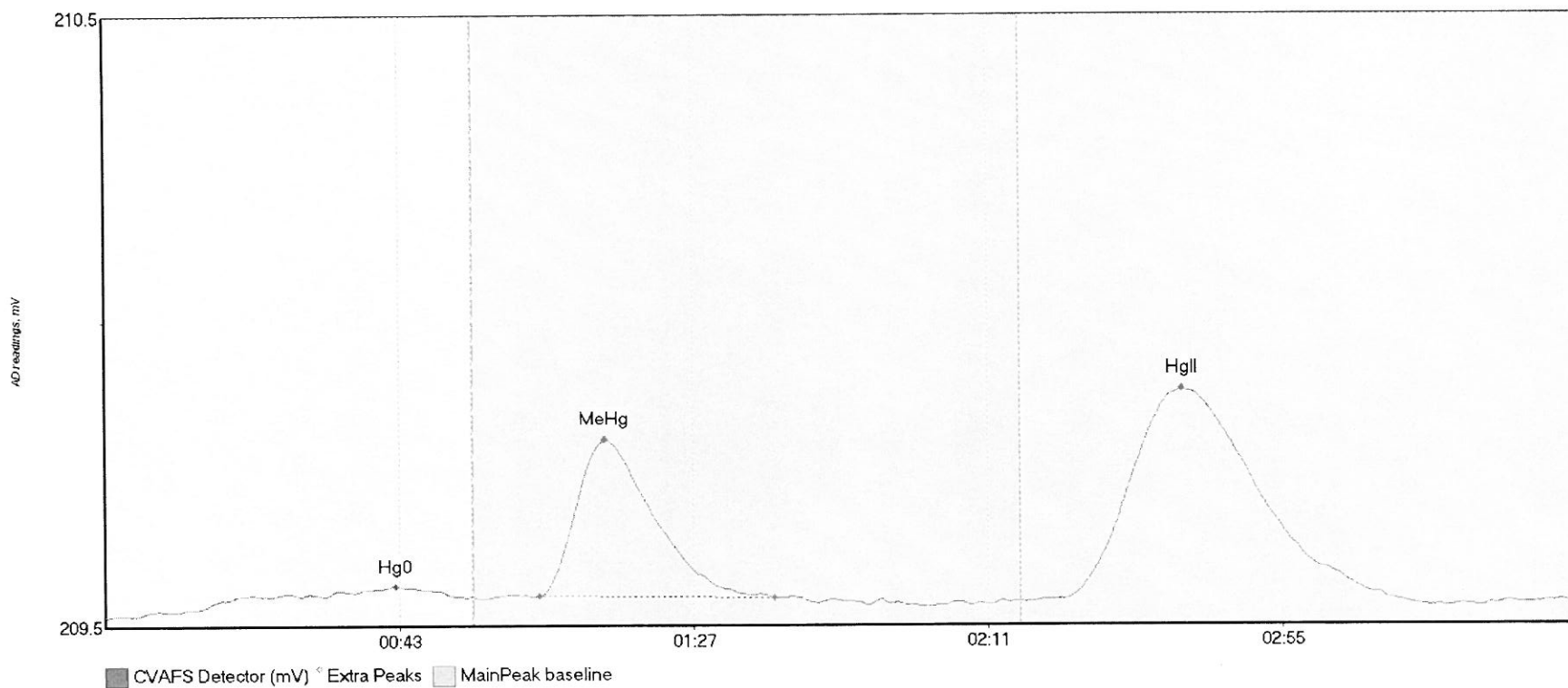
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#35: 1707732-05



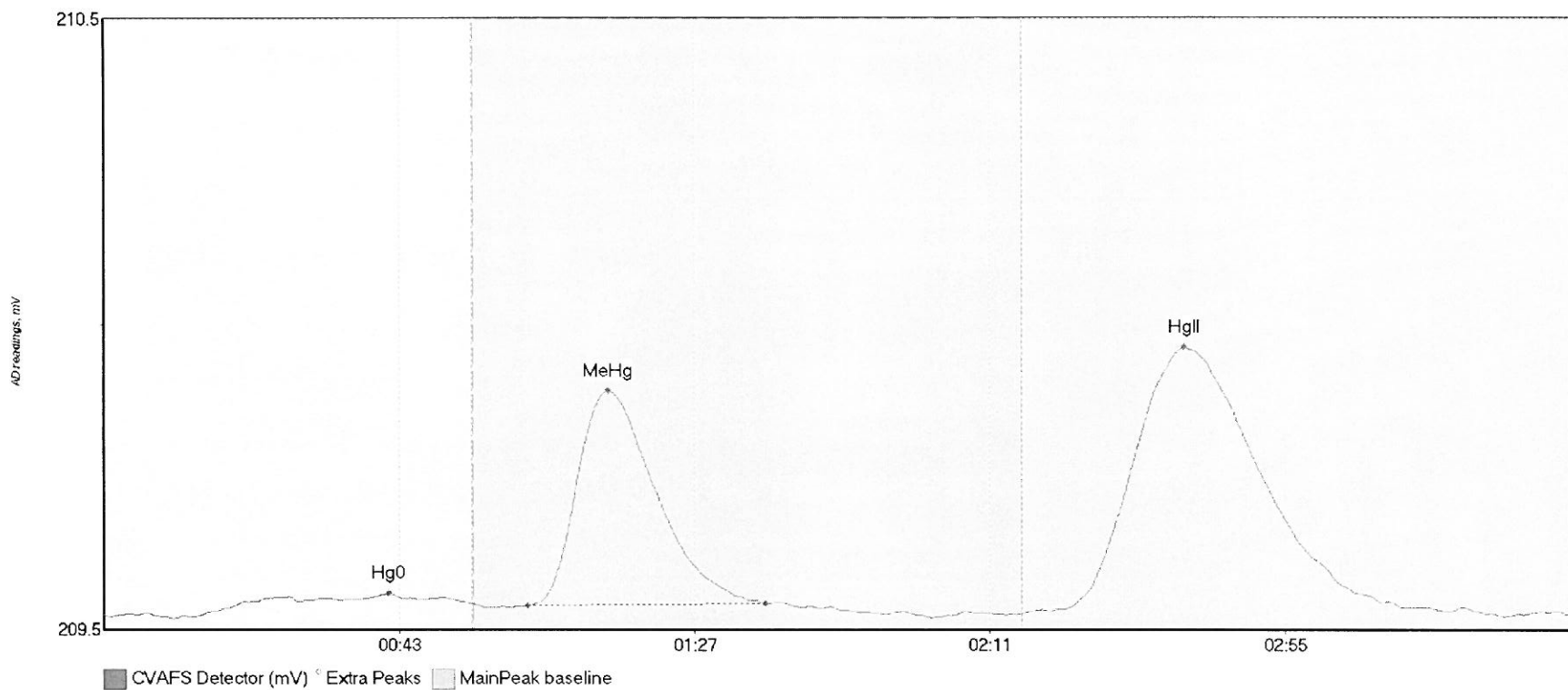
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707732-05 Hg0	6.729	9.5	54.1	209.54	209.56	24.4	0.040	OK	209.5359	0.00	0.01	
1707732-05 HgII	16.796	143.5	192.4	209.55	209.55	160.3	0.081	OK	209.5359	0.00	0.01	017

#36: 1708082-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708082-01 Hg0	7.621	4.7	54.0	209.53	209.56	43.4	0.049	OK	209.5281	0.00	0.02	
1708082-01 MeHg	34.316	64.8	100.0	209.56	209.56	74.8	0.256	OK	209.5281	0.00	0.02	
1708082-01 HgII	73.434	143.4	192.2	209.56	209.56	161.0	0.344	OK	209.5281	0.00	0.02	

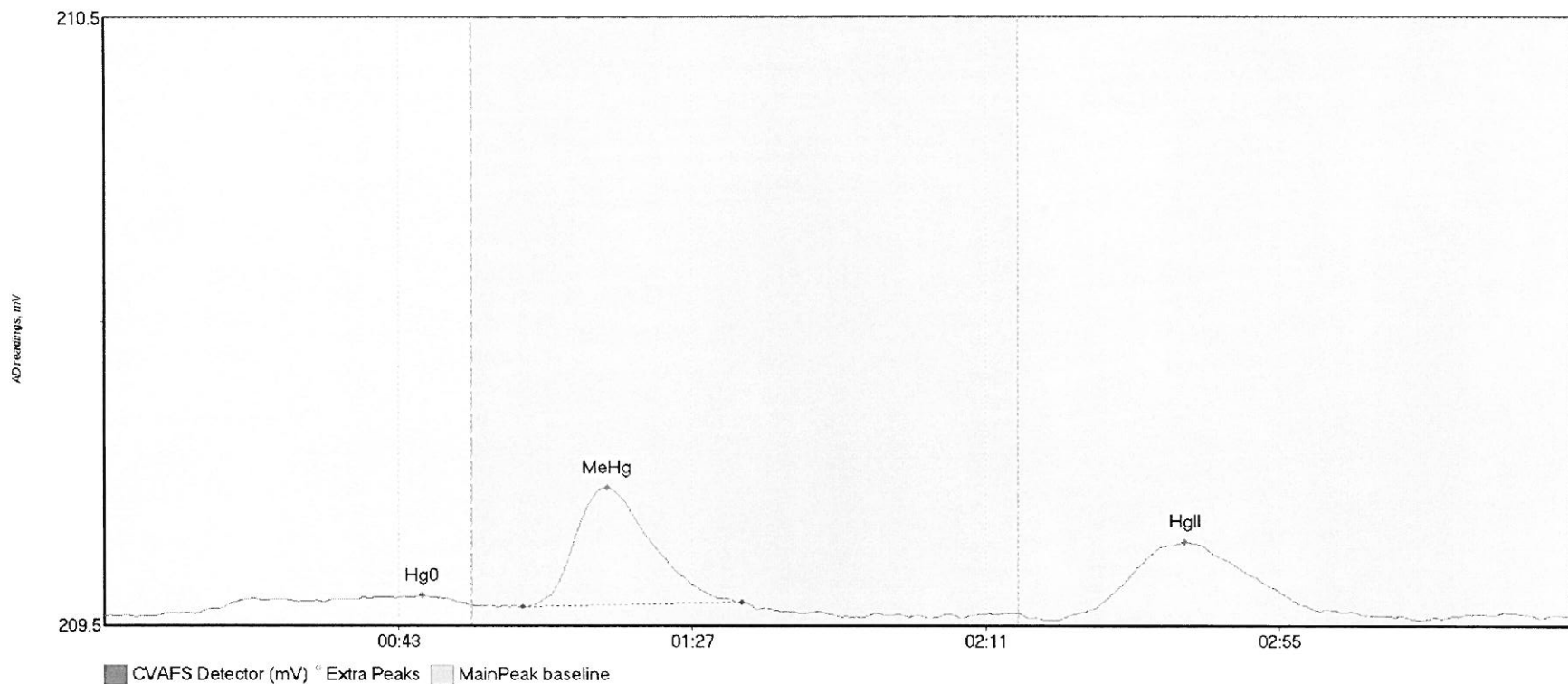
#37: 1708082-03



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708082-03 Hg0	6.395	13.6	55.0	209.52	209.55	42.5	0.039	CT	209.5256	0.00	0.00	
1708082-03 MeHg	47.566	63.1	98.6	209.54	209.55	75.1	0.352	OK	209.5256	0.00	0.00	
1708082-03 HgII	93.335	141.1	200.4	209.53	209.53	161.1	0.432	OK	209.5256	0.00	0.00	

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#38: 1708082-04

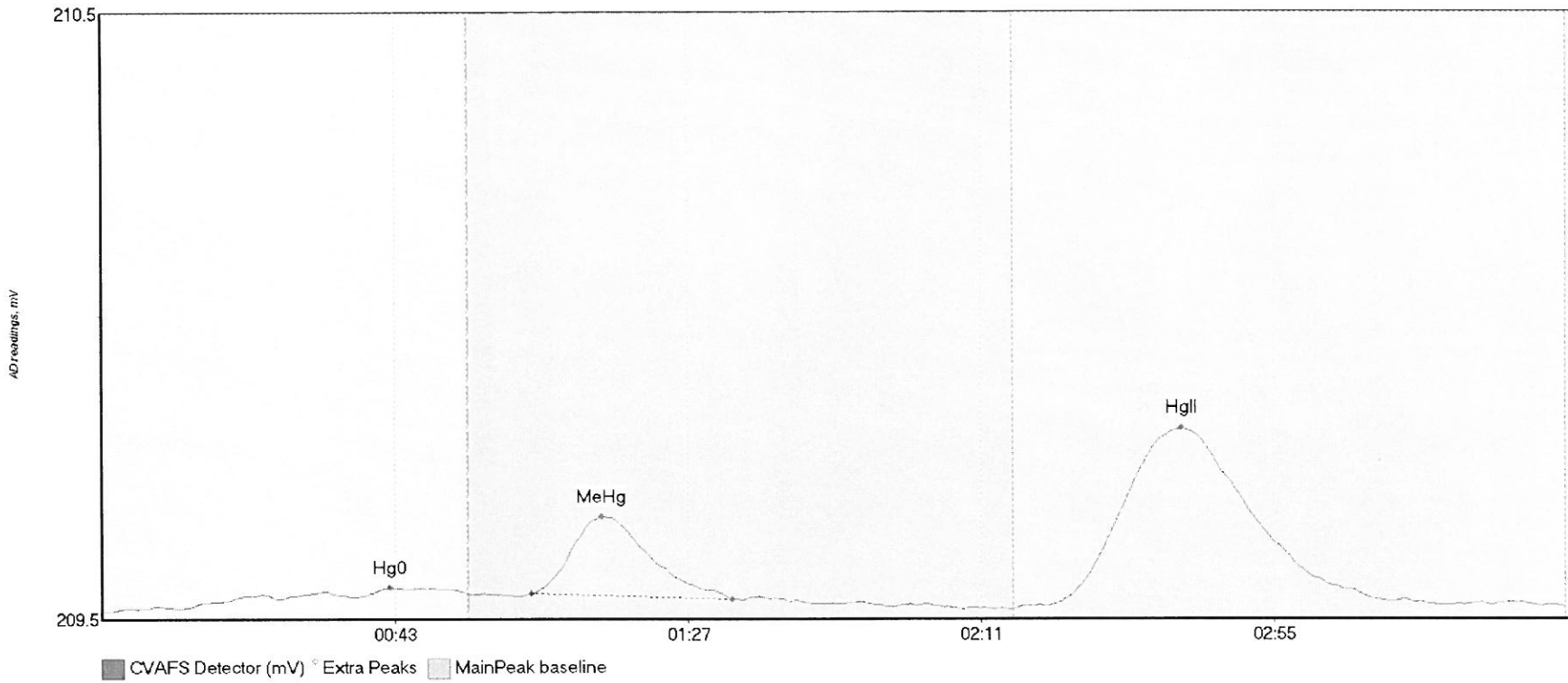


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708082-04 Hg0	6.228	13.6	55.0	209.52	209.54	47.6	0.031	CT	209.5194	0.00	0.00	
1708082-04 MeHg	25.717	62.6	95.4	209.53	209.54	75.3	0.196	OK	209.5194	0.00	0.00	
1708082-04 HgII	22.565	145.6	185.7	209.52	209.52	161.9	0.119	OK	209.5194	0.00	0.00	

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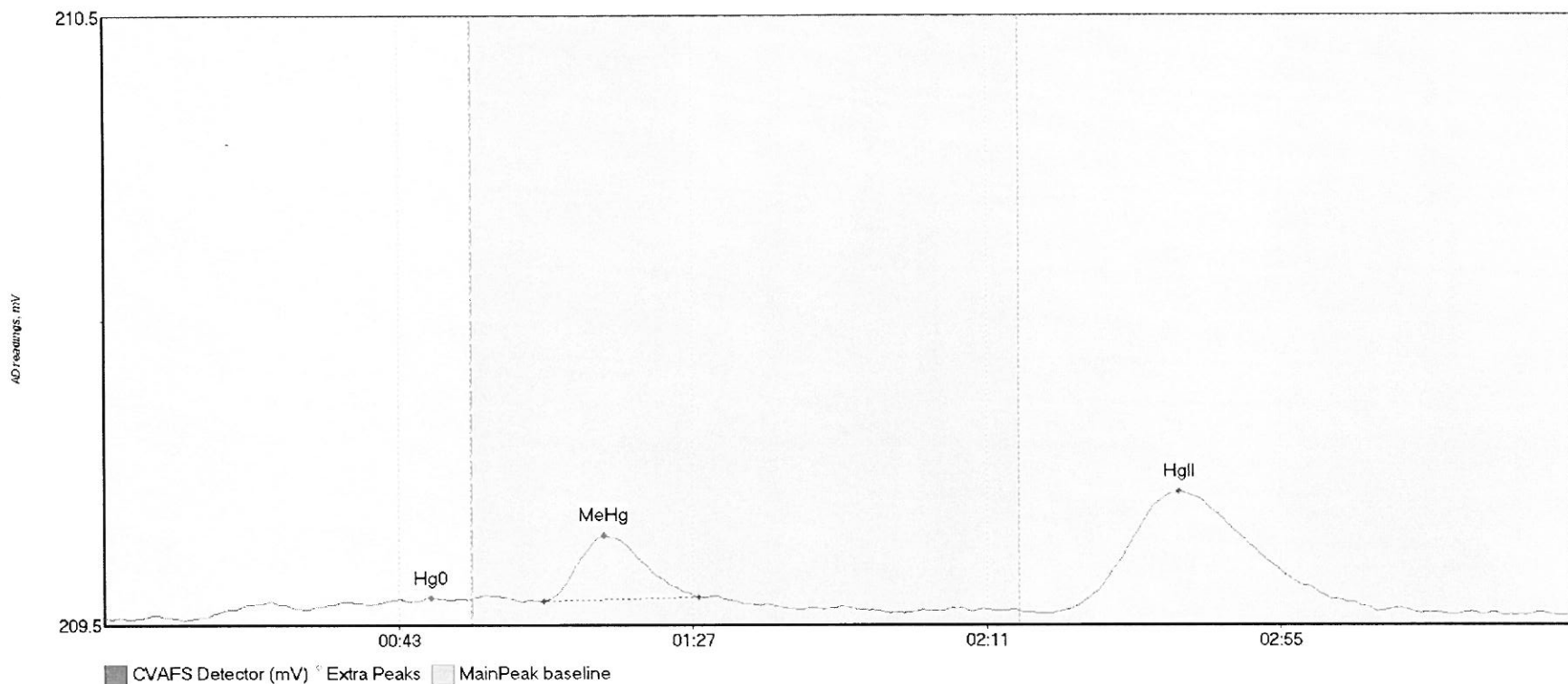
#39: 1708082-05



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708082-05 Hg0	4.428	11.5	55.0	209.51	209.53	43.3	0.034	CT	209.5037	0.00	0.01	
1708082-05 MeHg	17.478	64.4	94.6	209.53	209.52	75.0	0.126	OK	209.5037	0.00	0.01	
1708082-05 HgII	65.772	142.0	216.0	209.51	209.51	162.2	0.294	OK	209.5037	0.00	0.01	

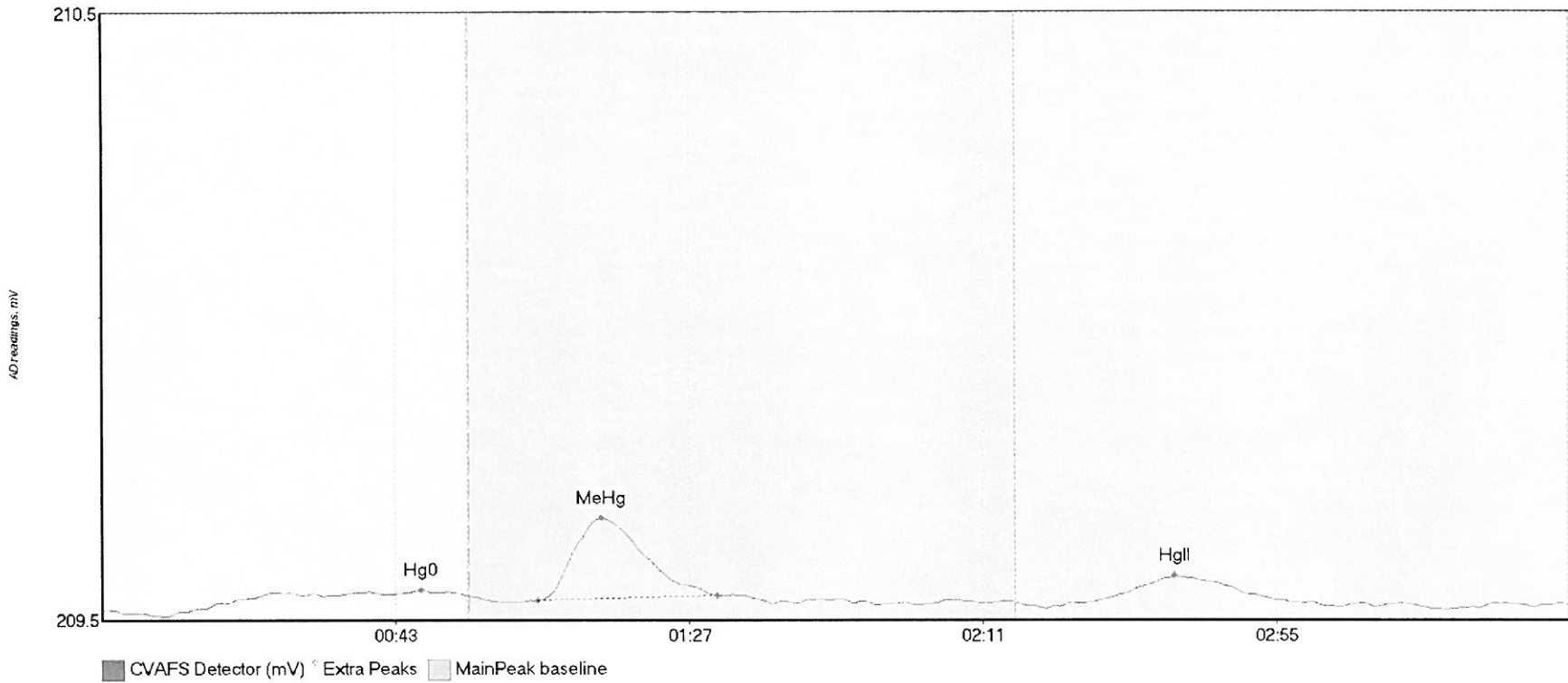
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#40: 1708082-07



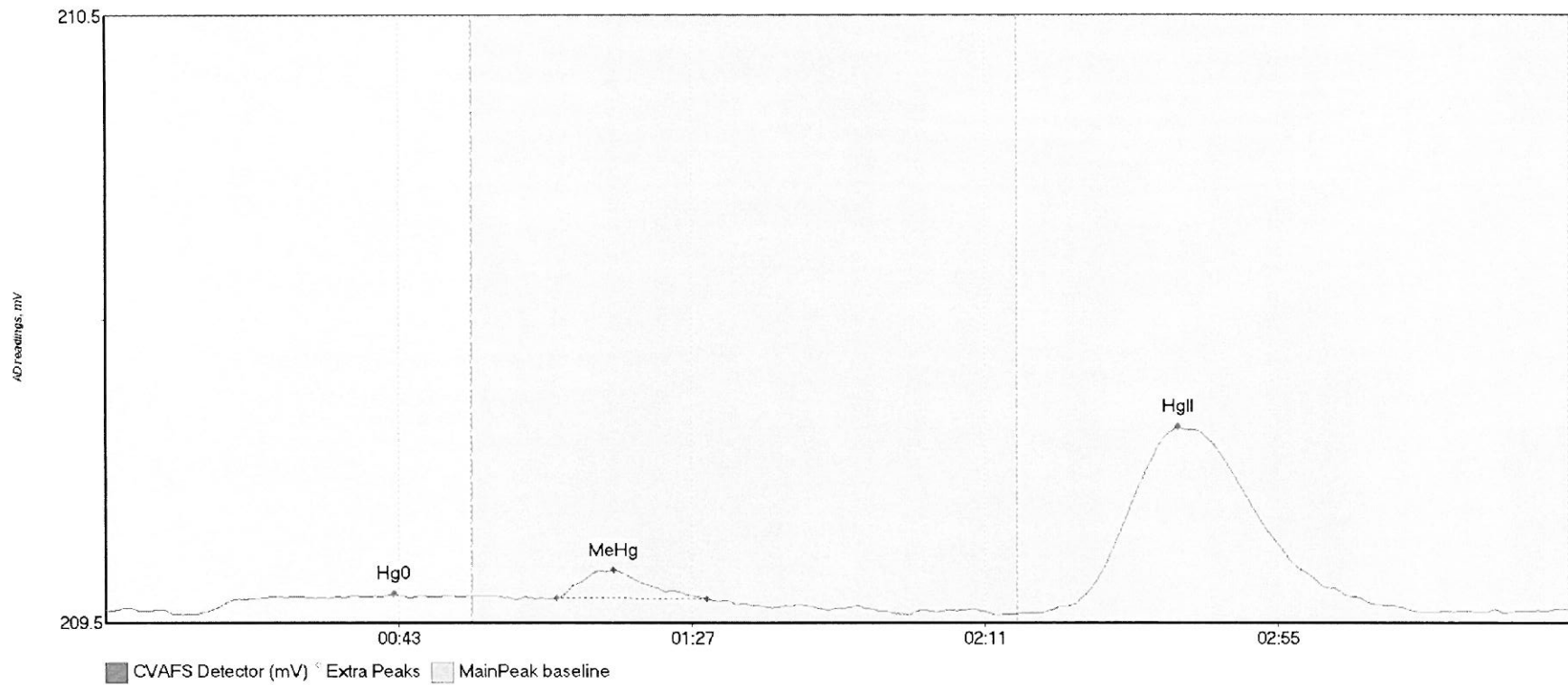
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708082-07 Hg0	2.596	15.3	51.8	209.51	209.54	48.8	0.032	OK	209.5077	0.00	0.01	
1708082-07 MeHg	11.918	65.7	88.9	209.54	209.54	74.8	0.109	OK	209.5077	0.00	0.01	
1708082-07 HgII	42.706	141.4	190.7	209.52	209.52	160.9	0.201	OK	209.5077	0.00	0.01	

#41: 1708082-08



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708082-08 Hg0	4.775	15.3	55.0	209.50	209.52	47.8	0.031	CT	209.5010	0.00	0.01	
1708082-08 MeHg	16.277	65.3	92.2	209.52	209.52	74.9	0.137	OK	209.5010	0.00	0.01	
1708082-08 HgII	6.000	148.3	176.1	209.51	209.52	160.7	0.043	OK	209.5010	0.00	0.01	

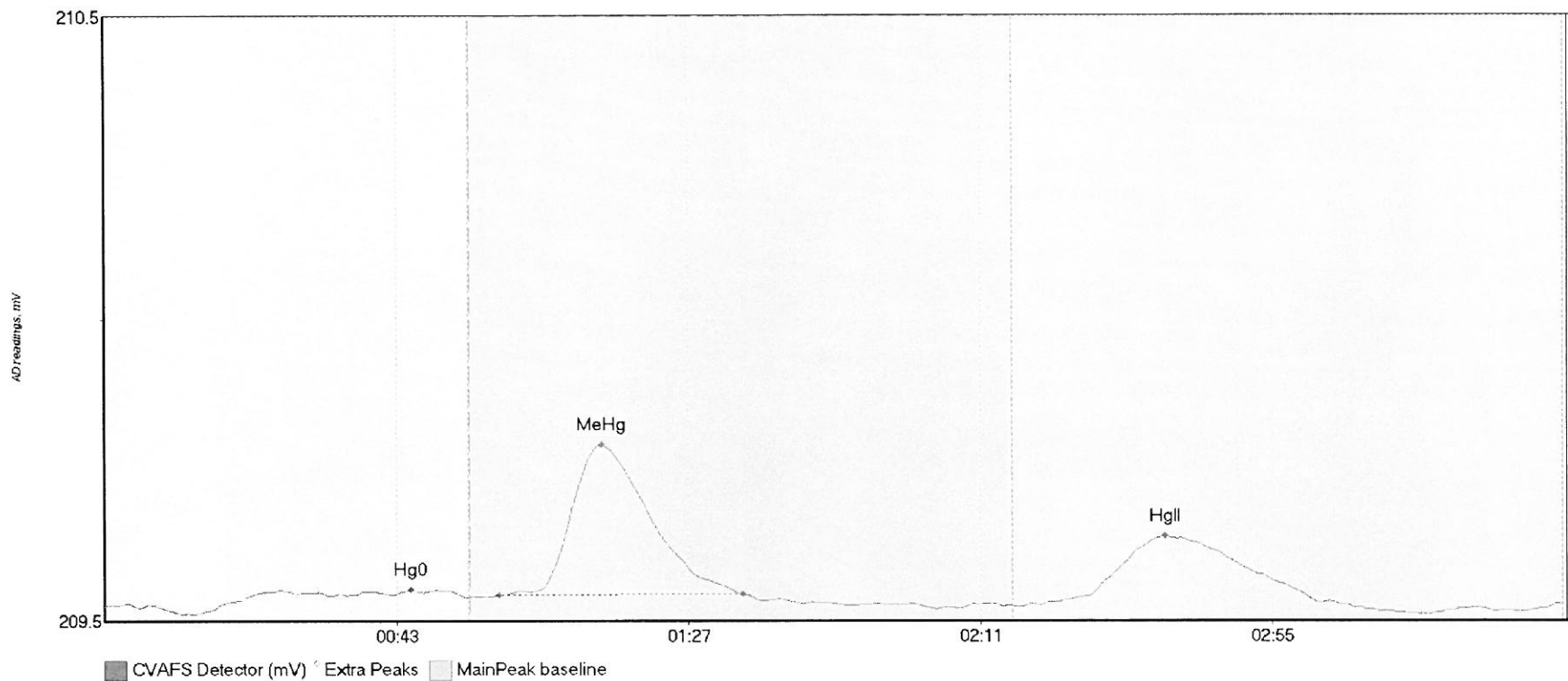
#42: 1708150-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708150-01 Hg0	3.741	13.6	45.8	209.50	209.52	43.3	0.033	OK	209.5036	0.00	0.00	
1708150-01 MeHg	5.235	67.7	90.2	209.52	209.52	76.3	0.047	OK	209.5036	0.00	0.00	
1708150-01 HgII	67.595	140.6	196.3	209.50	209.50	161.0	0.308	OK	209.5036	0.00	0.00	

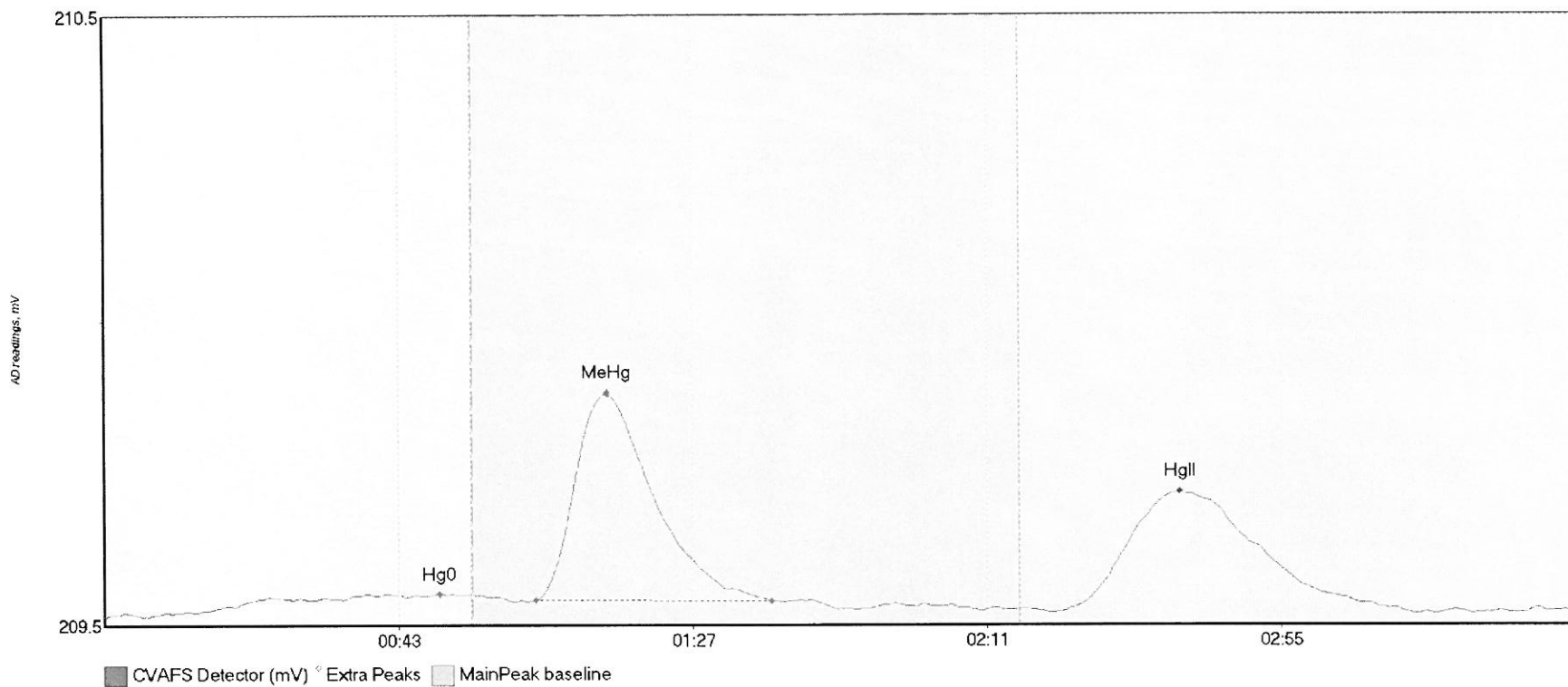
017

#43: 1708269-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708269-01 Hg0	7.003	13.5	54.5	209.48	209.51	46.2	0.040	OK	209.4951	0.00	0.00	
1708269-01 MeHg	33.551	59.5	96.2	209.51	209.51	75.0	0.250	OK	209.4951	0.00	0.00	
1708269-01 HgII	24.158	141.0	186.6	209.50	209.50	159.9	0.114	OK	209.4951	0.00	0.00	

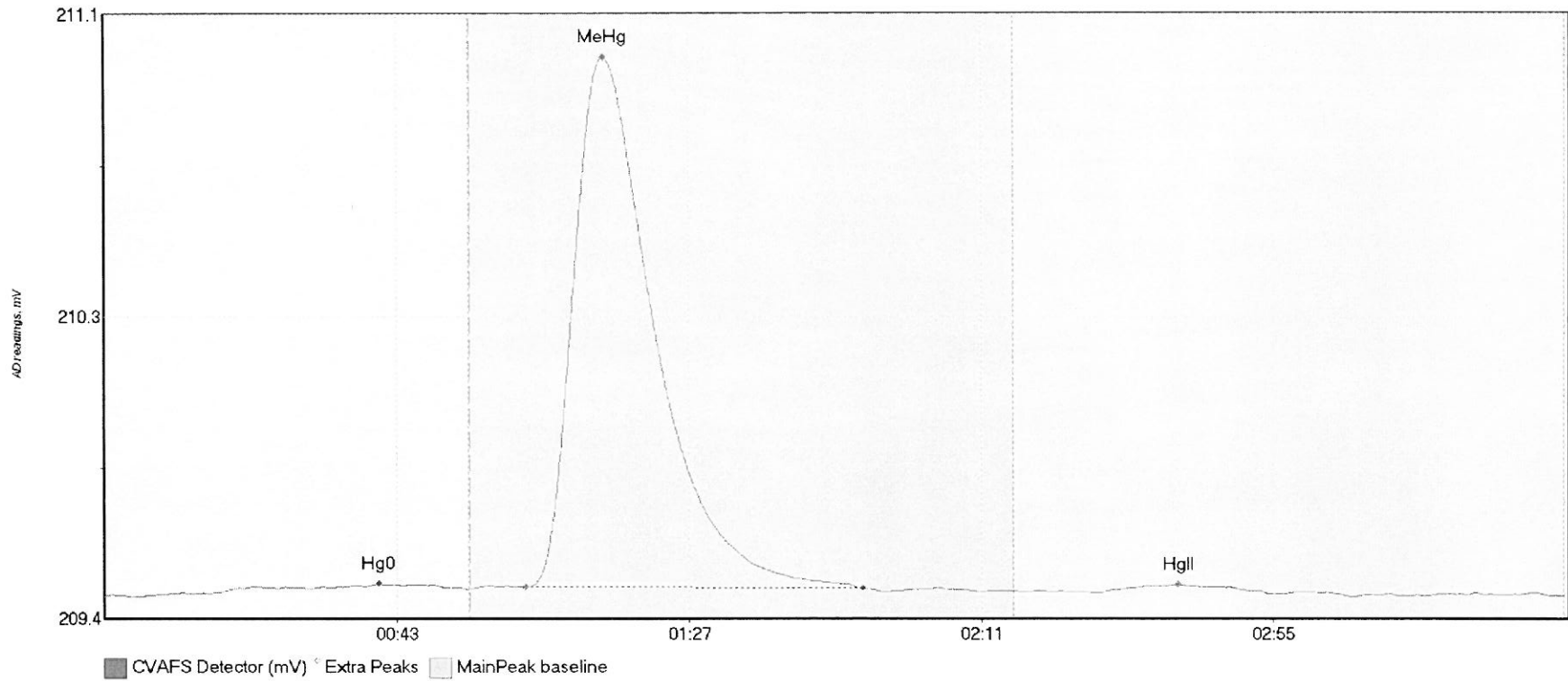
#44: 1708269-02



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708269-02 Hg0	3.377	13.7	54.0	209.48	209.51	50.2	0.031	OK	209.4802	0.00	0.01	
1708269-02 MeHg	46.124	64.4	99.7	209.51	209.50	75.1	0.339	OK	209.4802	0.00	0.01	
1708269-02 HgII	41.294	143.3	190.8	209.49	209.50	160.9	0.196	OK	209.4802	0.00	0.01	

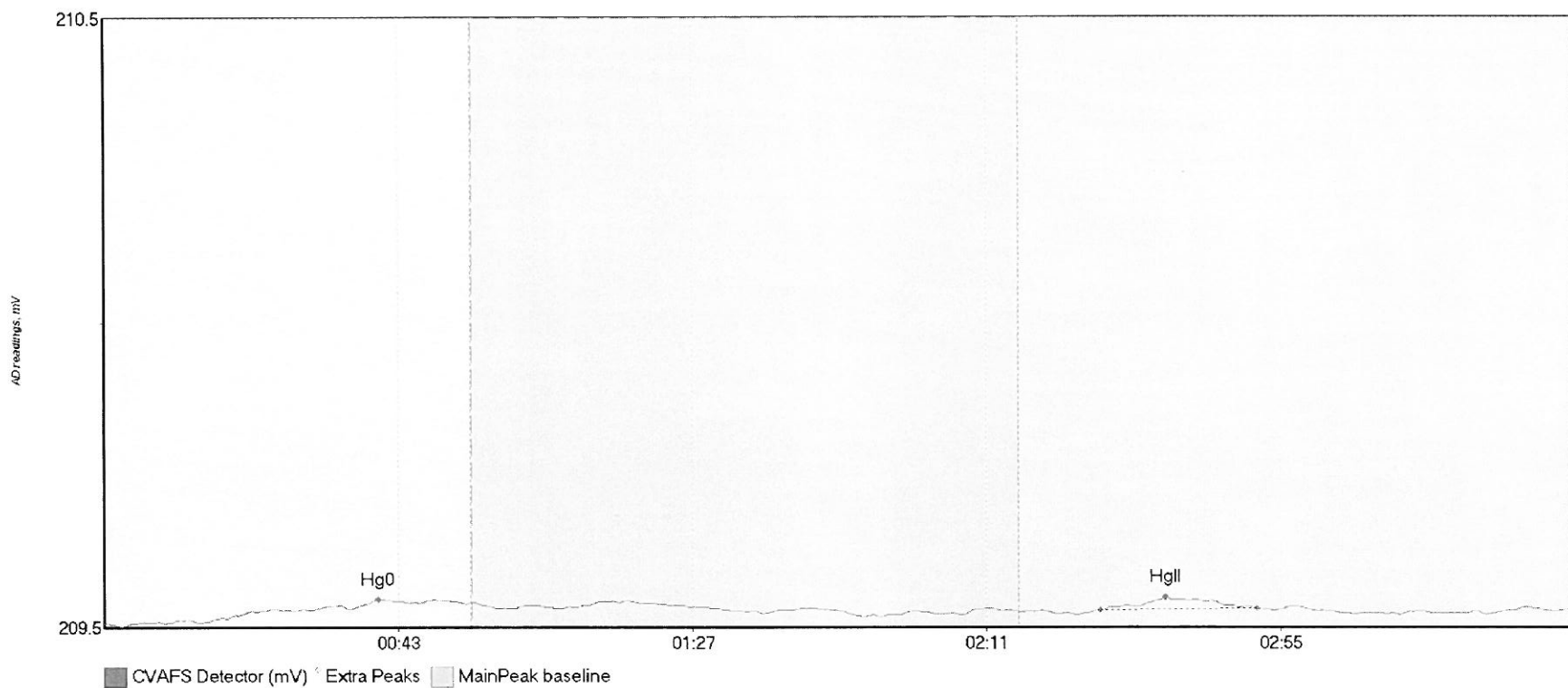
017

#45: SEQ-CCV3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV3 Hg0	4.717	9.2	54.7	209.49	209.50	41.3	0.029	OK	209.4846	0.00	0.00	
SEQ-CCV3 MeHg	212.083	63.4	114.1	209.51	209.50	75.2	1.499	OK	209.4846	0.00	0.00	
SEQ-CCV3 HgII	1.663	153.3	172.3	209.50	209.50	161.8	0.013	OK	209.4846	0.00	0.00	

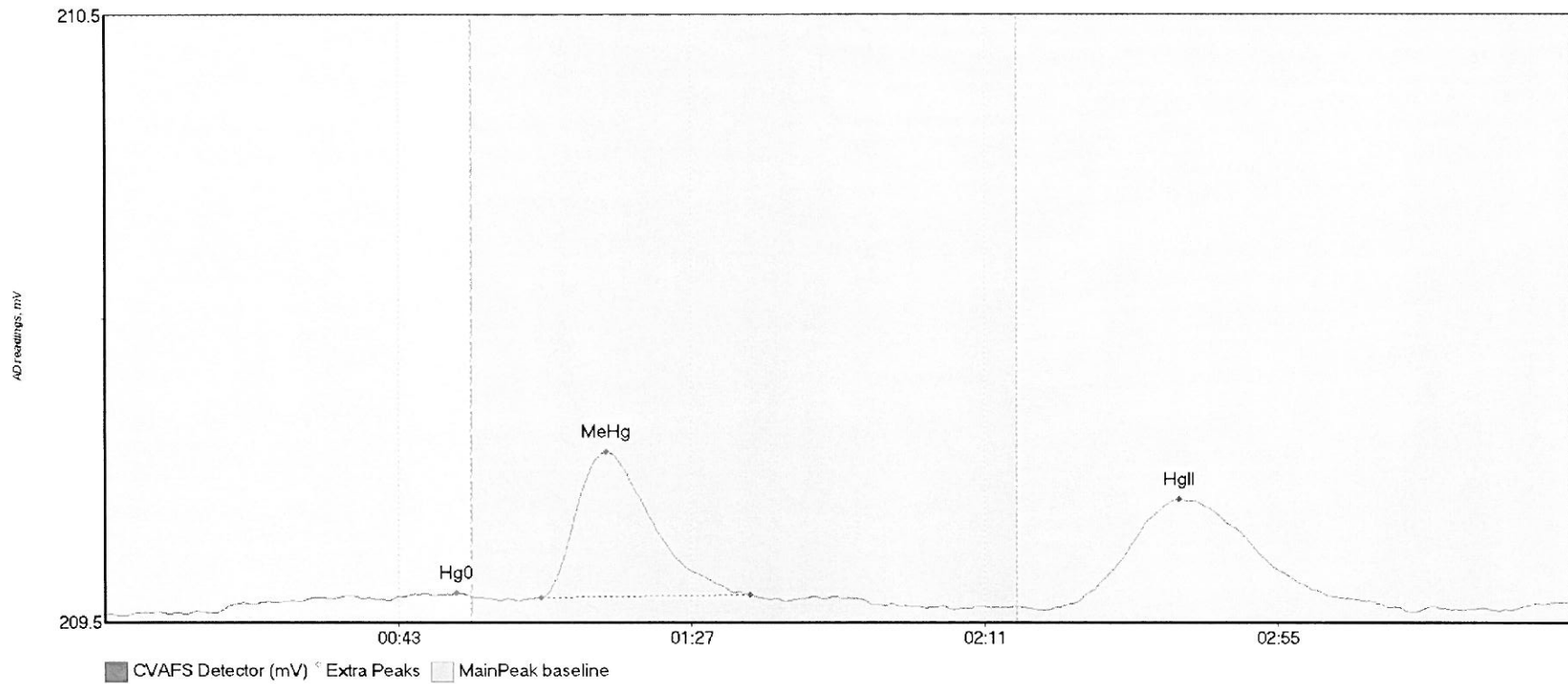
#46: SEQ-CCB3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	3.573	15.6	54.1	209.48	209.51	41.0	0.037	OK	209.4762	0.00	0.03	
SEQ-CCB3 HgII	2.398	149.1	172.4	209.50	209.50	158.8	0.021	OK	209.4762	0.00	0.03	017



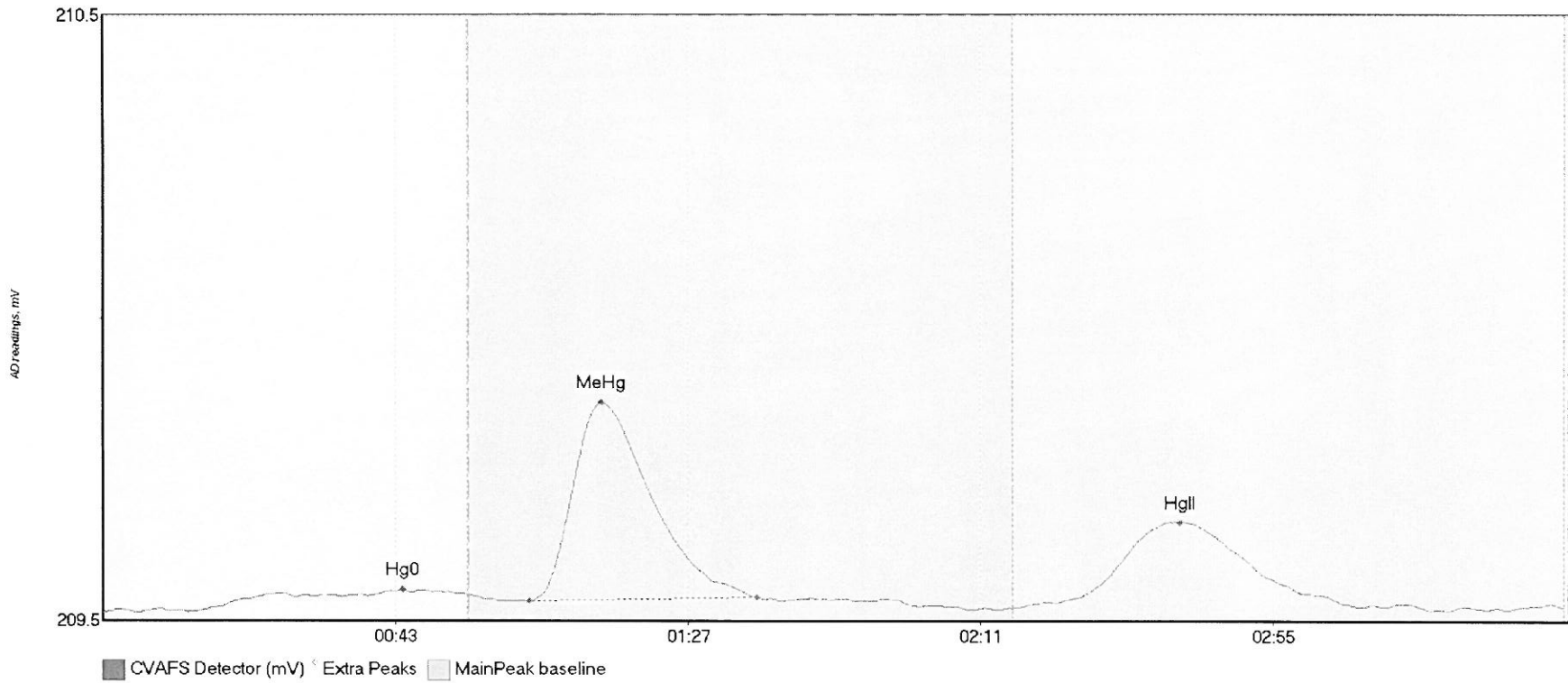
#47: 1708269-03



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708269-03 Hg0	3.643	16.4	55.0	209.49	209.52	52.7	0.032	CT	209.4891	0.00	0.02	
1708269-03 MeHg	31.153	65.4	96.7	209.51	209.52	75.3	0.241	OK	209.4891	0.00	0.02	
1708269-03 HgII	40.136	141.2	192.9	209.49	209.50	161.2	0.183	OK	209.4891	0.00	0.02	

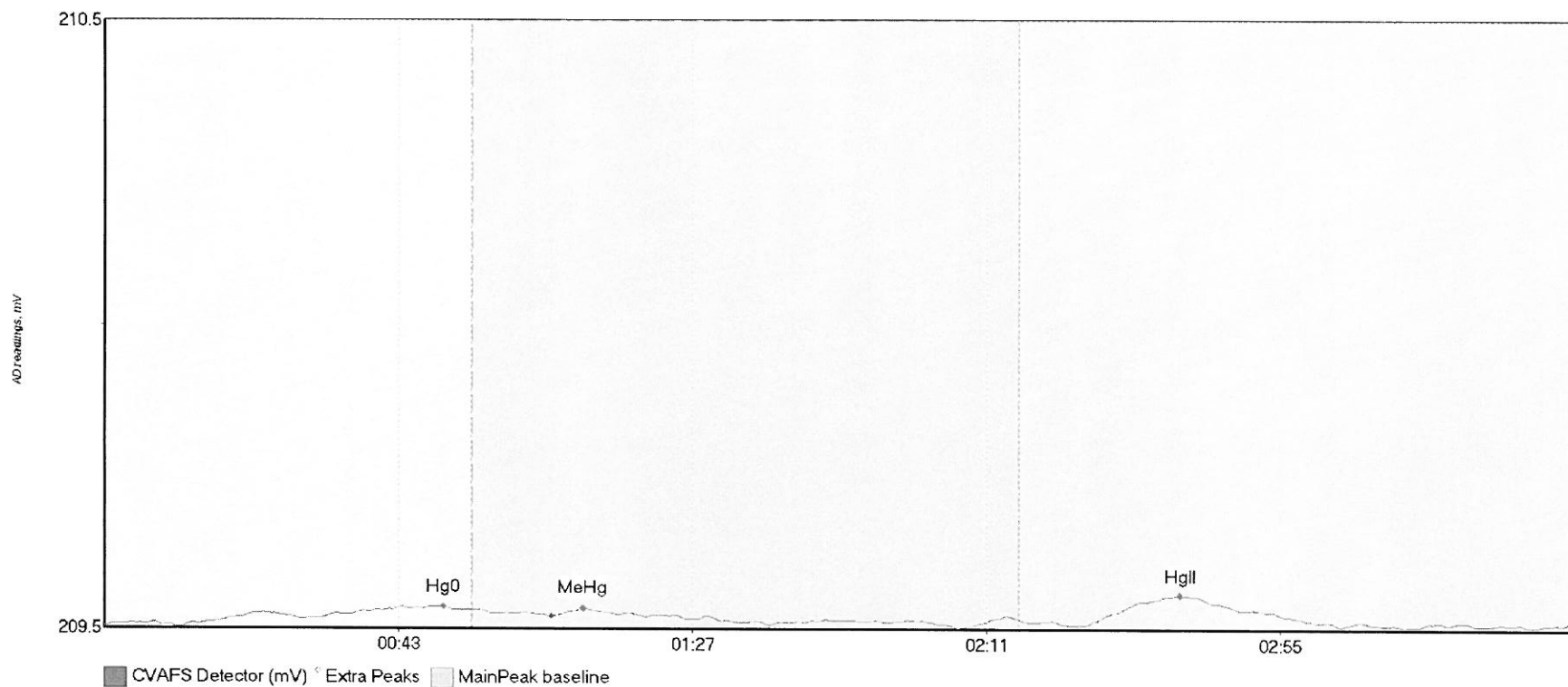
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#48: 1708269-04



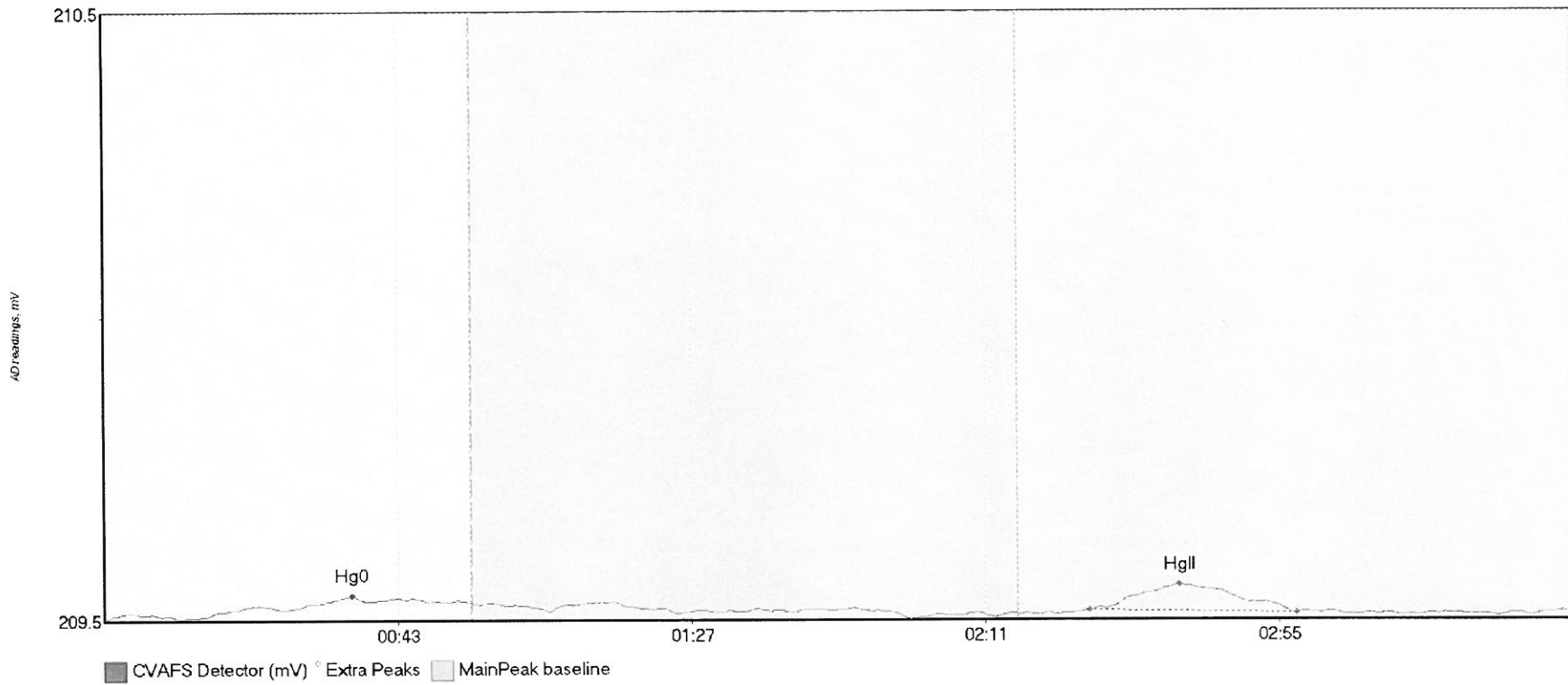
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708269-04 Hg0	4.611	14.3	55.0	209.48	209.51	45.1	0.035	CT	209.4794	0.00	0.01	
1708269-04 MeHg	44.277	64.1	98.3	209.50	209.50	75.0	0.329	OK	209.4794	0.00	0.01	
1708269-04 HgII	30.604	137.8	189.2	209.49	209.49	162.1	0.144	OK	209.4794	0.00	0.01	

#49: F708416-BLK1



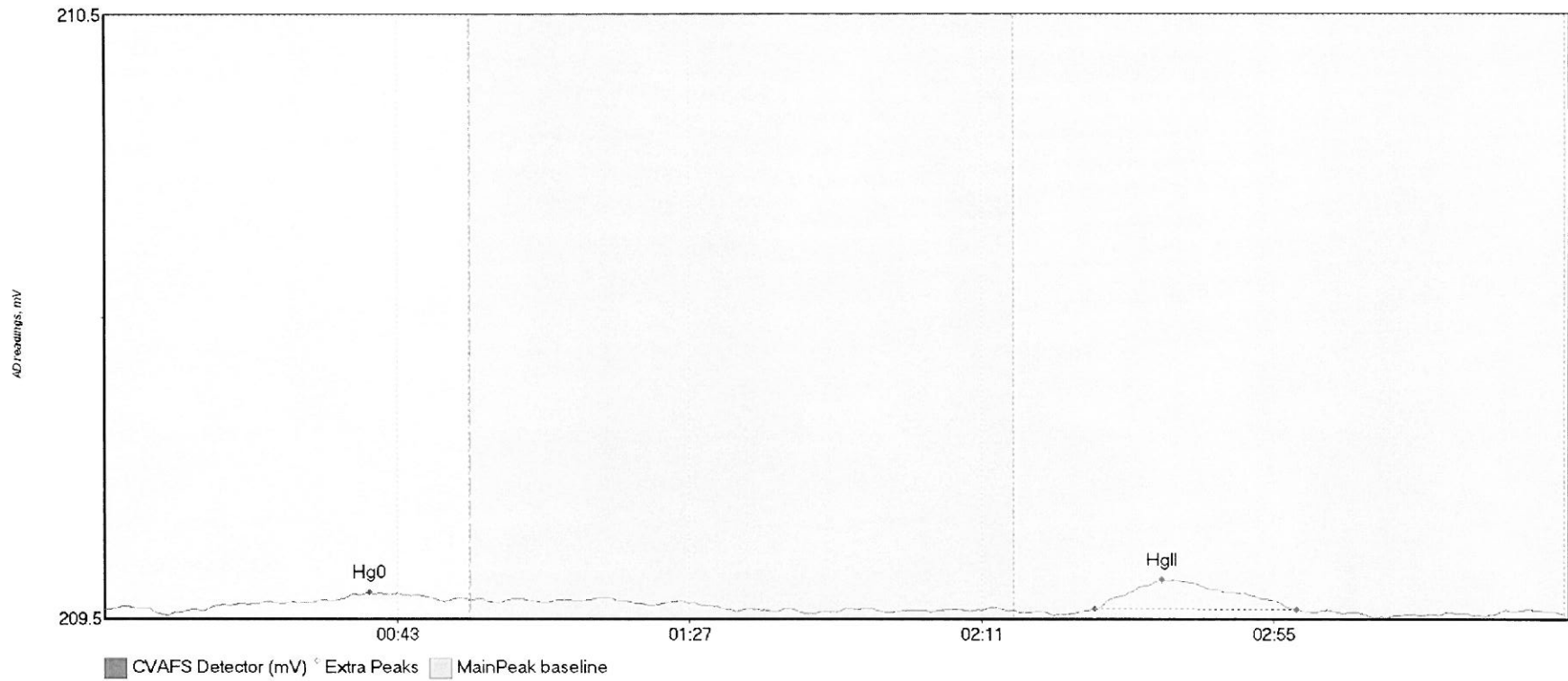
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708416-BLK1 Hg	2.150	14.5	53.4	209.48	209.50	50.7	0.029	OK	209.4787	0.00	0.01	
F708416-BLK1 Me	0.033	66.9	71.7	209.49	209.51	71.6	0.014	OK	209.4787	0.00	0.01	
F708416-BLK1 Hg	7.473	146.3	177.8	209.48	209.49	161.1	0.050	OK	209.4787	0.00	0.01	

#50: F708416-BLK2



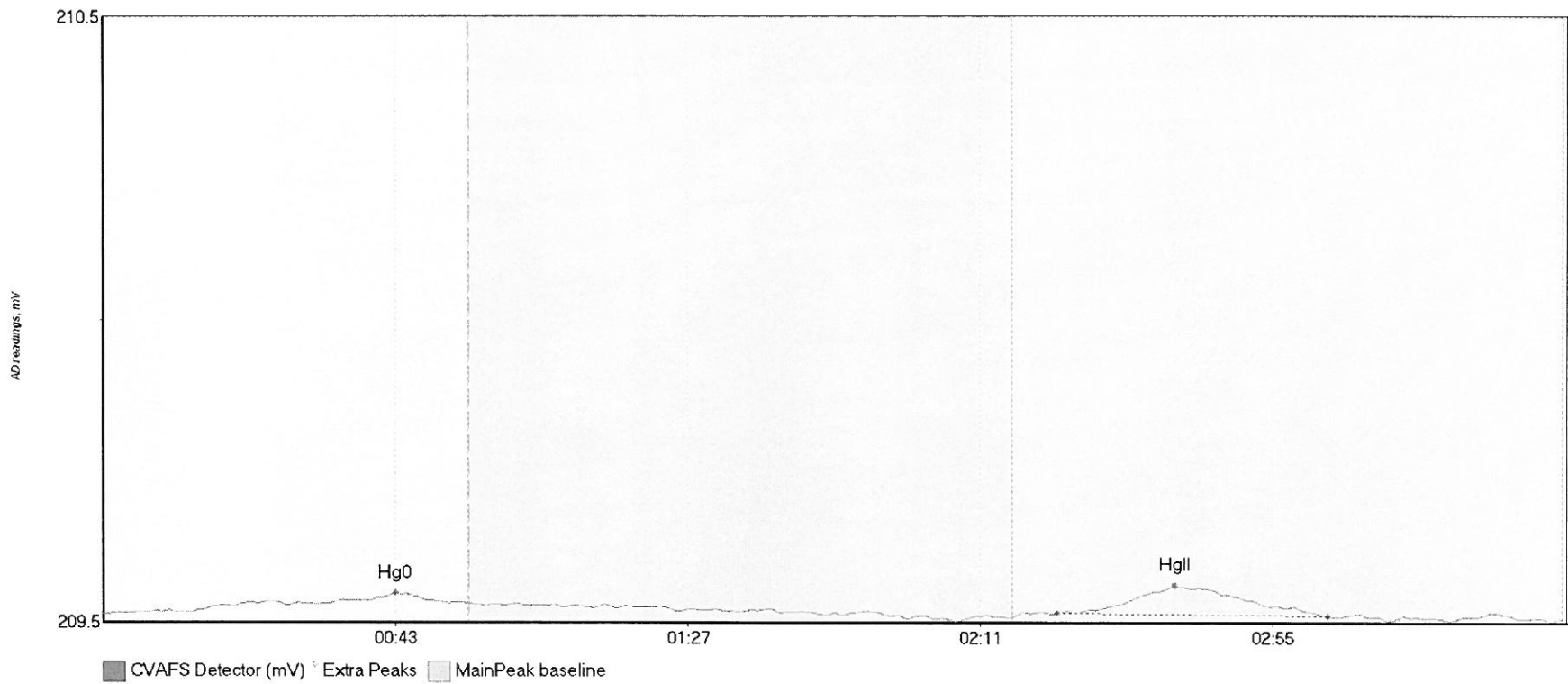
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708416-BLK2 Hg	3.937	15.1	55.0	209.49	209.51	37.2	0.033	CT	209.4900	0.00	0.01	
F708416-BLK2 Hg	7.360	147.6	178.6	209.50	209.50	161.1	0.042	OK	209.4900	0.00	0.01	017

#51: F708416-BLK3



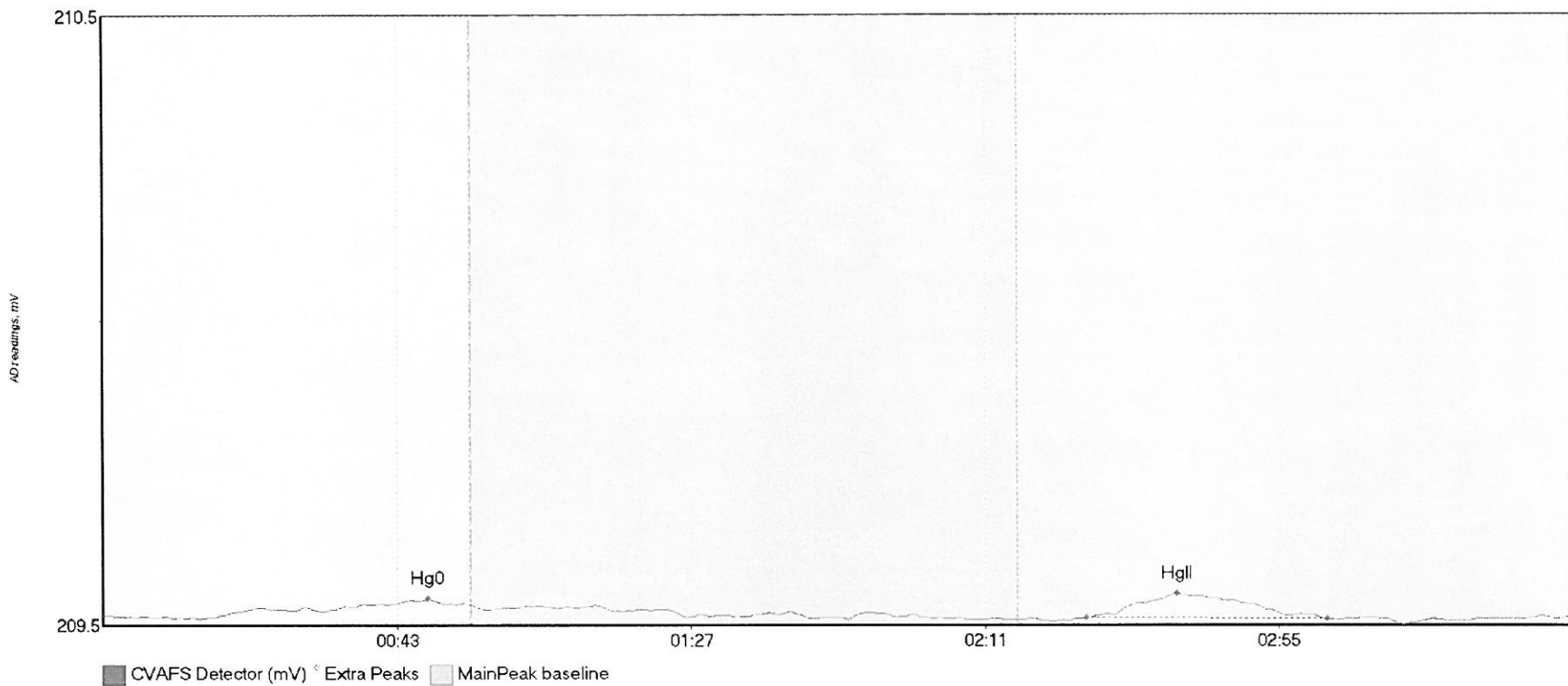
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708416-BLK3 Hg	2.560	16.3	51.0	209.51	209.52	39.8	0.023	OK	209.5069	0.00	-0.01	
F708416-BLK3 Hg	8.556	149.0	179.5	209.51	209.51	159.2	0.049	OK	209.5069	0.00	-0.01	017

#52: \*F708416-BLK4



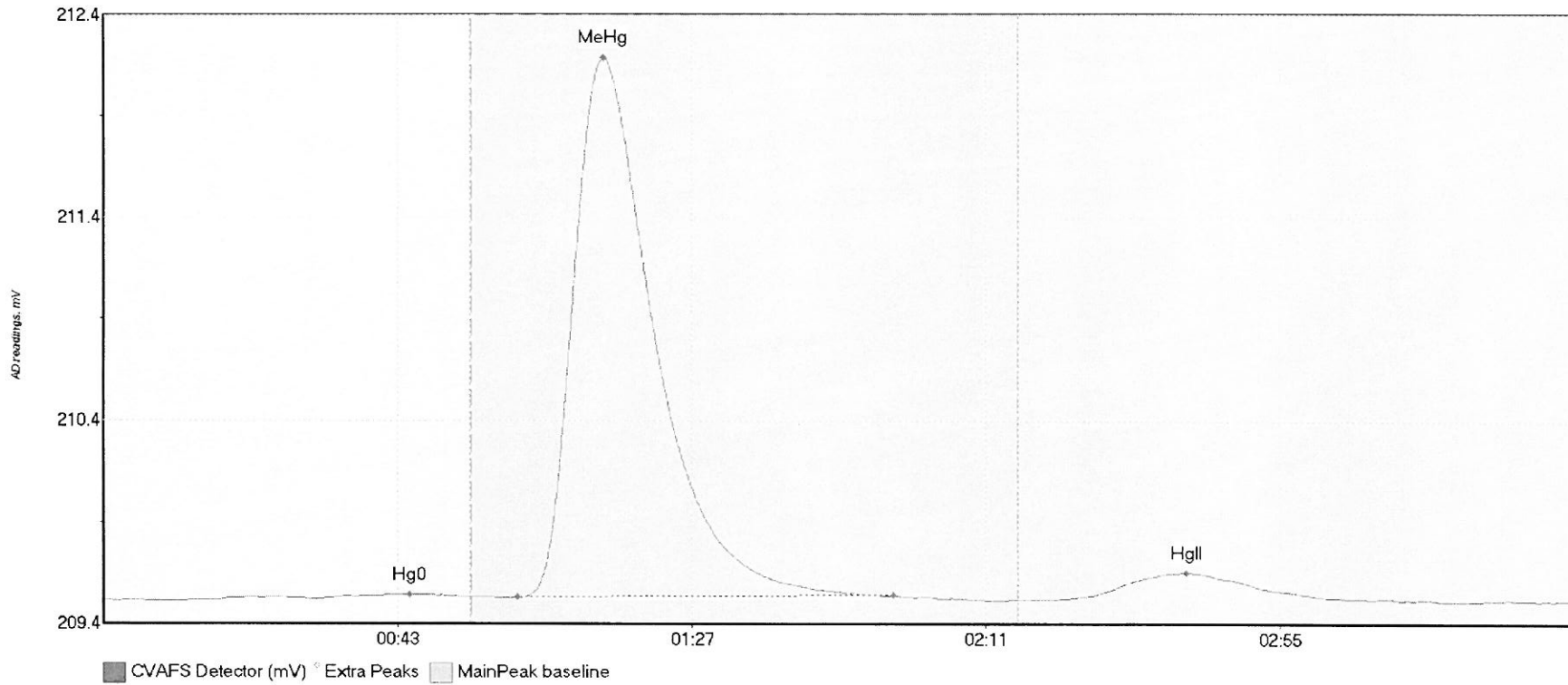
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
*F708416-BLK4 H	3.671	13.1	52.1	209.51	209.52	44.0	0.031	OK	209.5059	0.00	-0.01	
*F708416-BLK4 H	9.145	143.6	184.3	209.51	209.50	161.3	0.045	OK	209.5059	0.00	-0.01	017

#53: \*F708416-BLK5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
*F708416-BLK5 H	2.116	17.9	55.0	209.51	209.52	48.6	0.027	CF	209.5075	0.00	0.00	
*F708416-BLK5 H	7.518	147.1	183.3	209.50	209.50	160.7	0.039	OK	209.5075	0.00	0.00	017

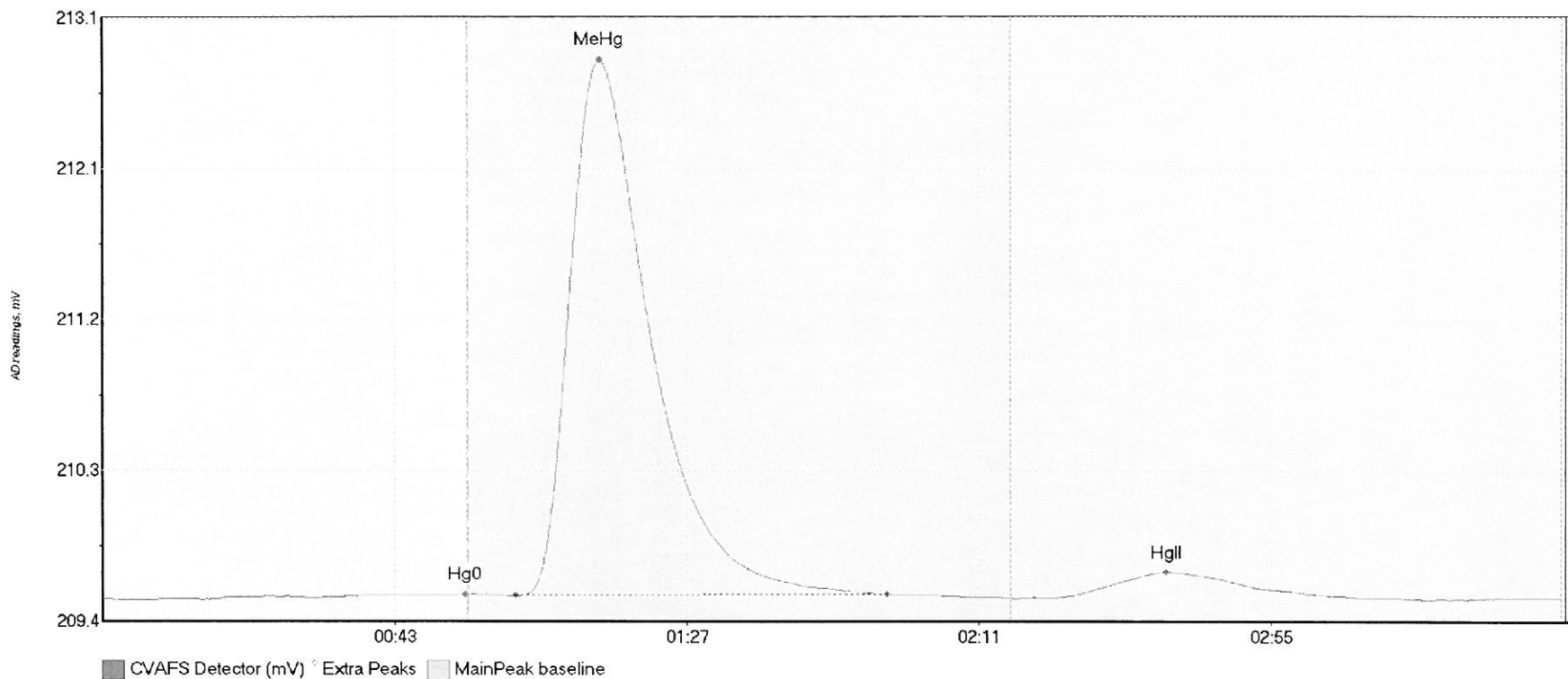
#54: F708416-DUP1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708416-DUP1 Hg	2.365	31.8	55.0	209.51	209.52	45.9	0.024	CT	209.5066	0.00	0.00	
F708416-DUP1 Me	373.554	61.9	118.1	209.52	209.53	74.8	2.651	OK	209.5066	0.00	0.00	
F708416-DUP1 Hg	27.649	142.3	189.6	209.51	209.51	162.1	0.132	OK	209.5066	0.00	0.00	



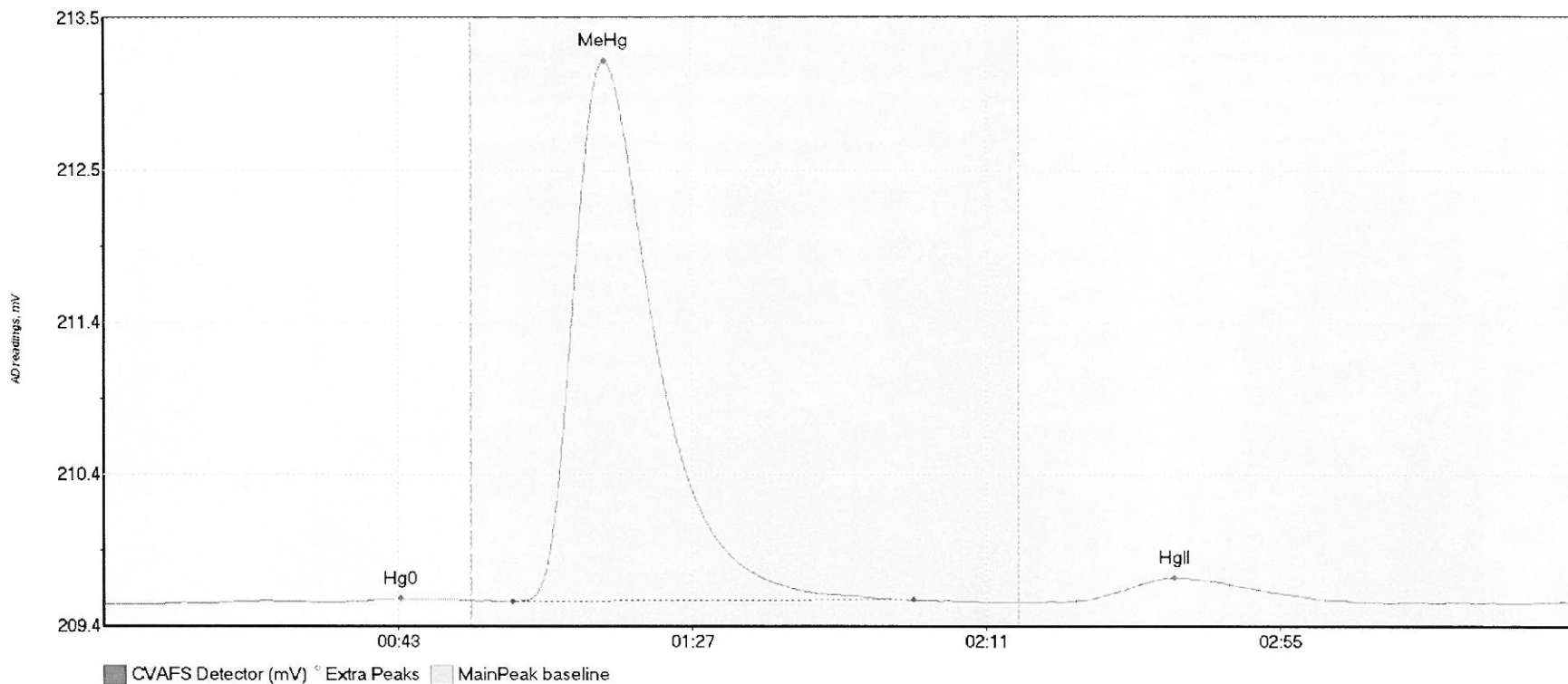
#55: F708416-MS1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708416-MS1 Hg0	1.992	16.7	55.0	209.51	209.53	54.6	0.028	CT	209.5067	0.00	0.01	
F708416-MS1 MeH	460.932	62.2	118.1	209.53	209.54	74.9	3.273	OK	209.5067	0.00	0.01	
F708416-MS1 HgI	32.916	143.5	189.4	209.51	209.51	160.2	0.156	OK	209.5067	0.00	0.01	

017

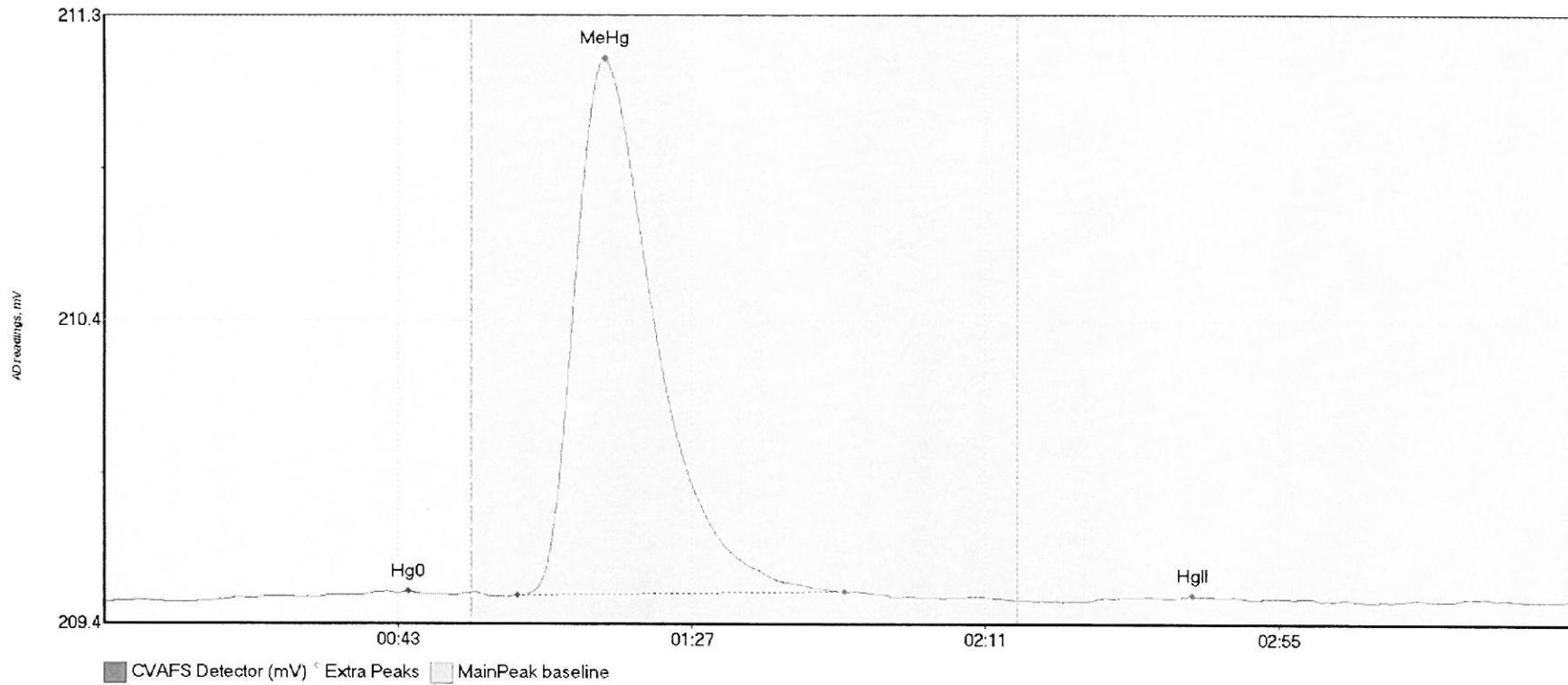
#56: F708416-MSD1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708416-MSD1 Hg	3.162	15.6	55.0	209.52	209.54	44.5	0.032	CT	209.5134	0.00	0.01	
F708416-MSD1 Me	522.362	61.2	121.1	209.53	209.54	74.9	3.669	OK	209.5134	0.00	0.01	
F708416-MSD1 Hg	34.587	143.1	187.3	209.53	209.53	160.2	0.163	OK	209.5134	0.00	0.01	

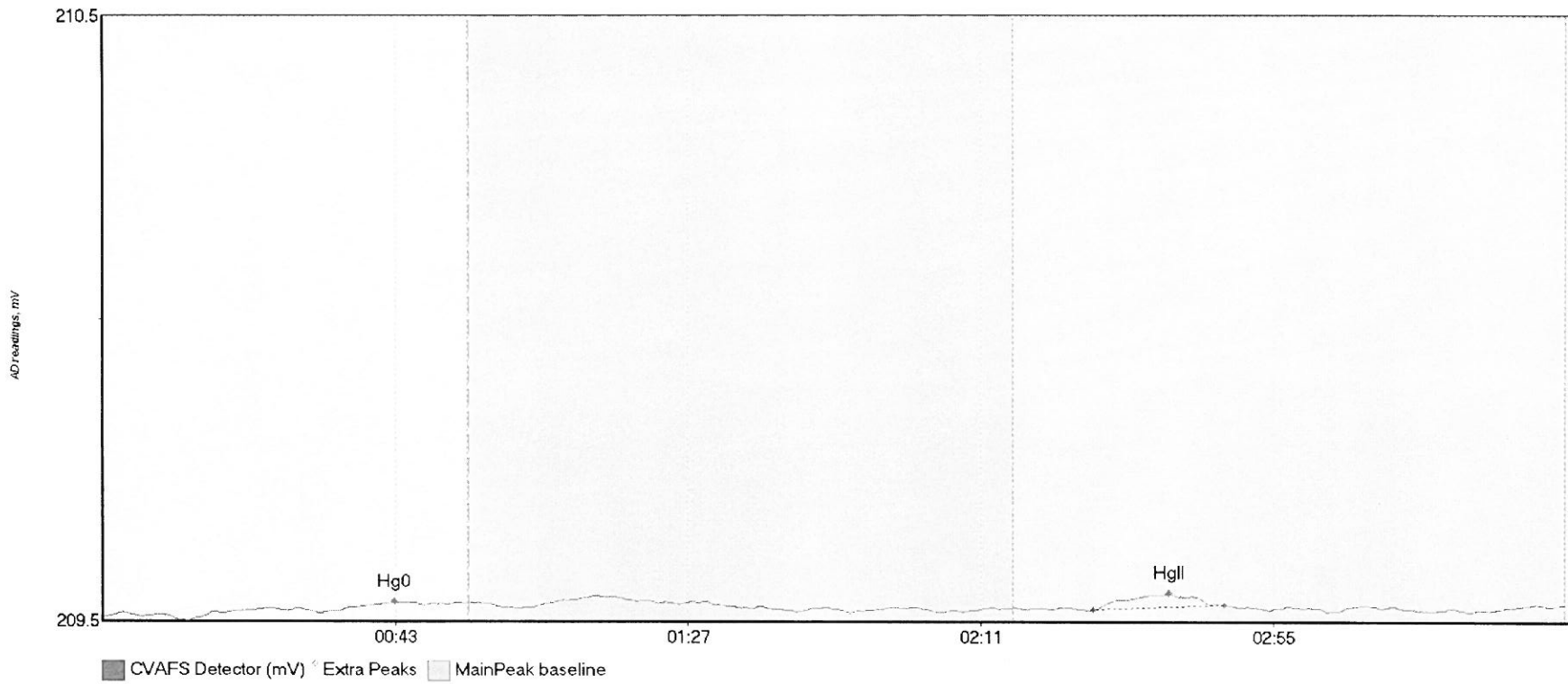
017

#57: SEQ-CCV4



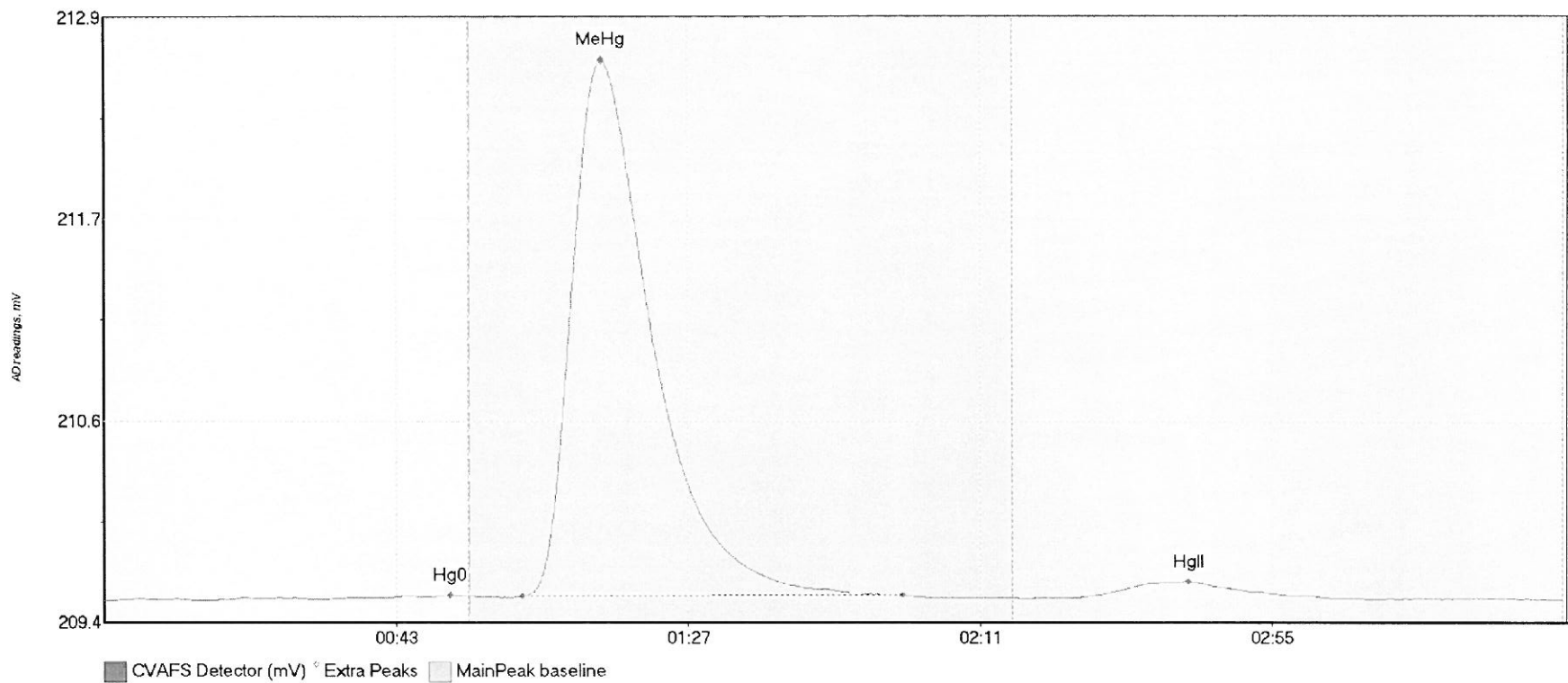
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	2.576	16.0	52.6	209.52	209.54	45.6	0.027	OK	209.5143	0.00	0.01	
SEQ-CCV4 MeHg	224.381	61.9	110.9	209.53	209.55	75.0	1.603	OK	209.5143	0.00	0.01	
SEQ-CCV4 HgII	1.894	147.5	171.4	209.52	209.52	163.1	0.016	OK	209.5143	0.00	0.01	

#58: SEQ-CCB4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	1.643	14.6	48.2	209.52	209.54	43.9	0.026	OK	209.5176	0.00	0.02	
SEQ-CCB4 HgII	2.745	148.9	168.6	209.53	209.54	160.3	0.027	OK	209.5176	0.00	0.02	017

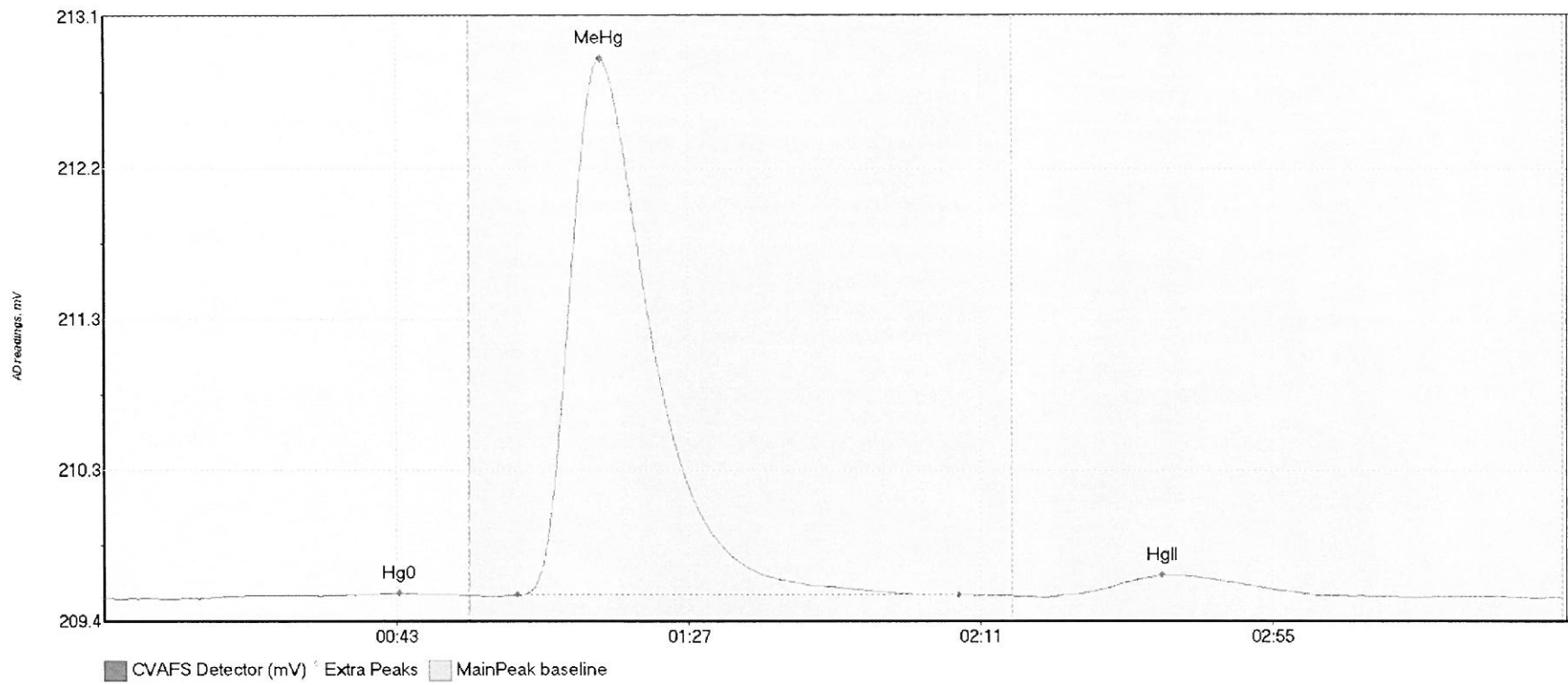
#59: F708416-MS2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708416-MS2 Hg0	1.546	15.4	54.5	209.52	209.55	52.2	0.033	OK	209.5197	0.00	0.00	
F708416-MS2 MeH	439.043	63.0	120.3	209.54	209.55	75.0	3.118	OK	209.5197	0.00	0.00	
F708416-MS2 HgI	18.758	146.1	186.6	209.54	209.53	163.4	0.093	OK	209.5197	0.00	0.00	

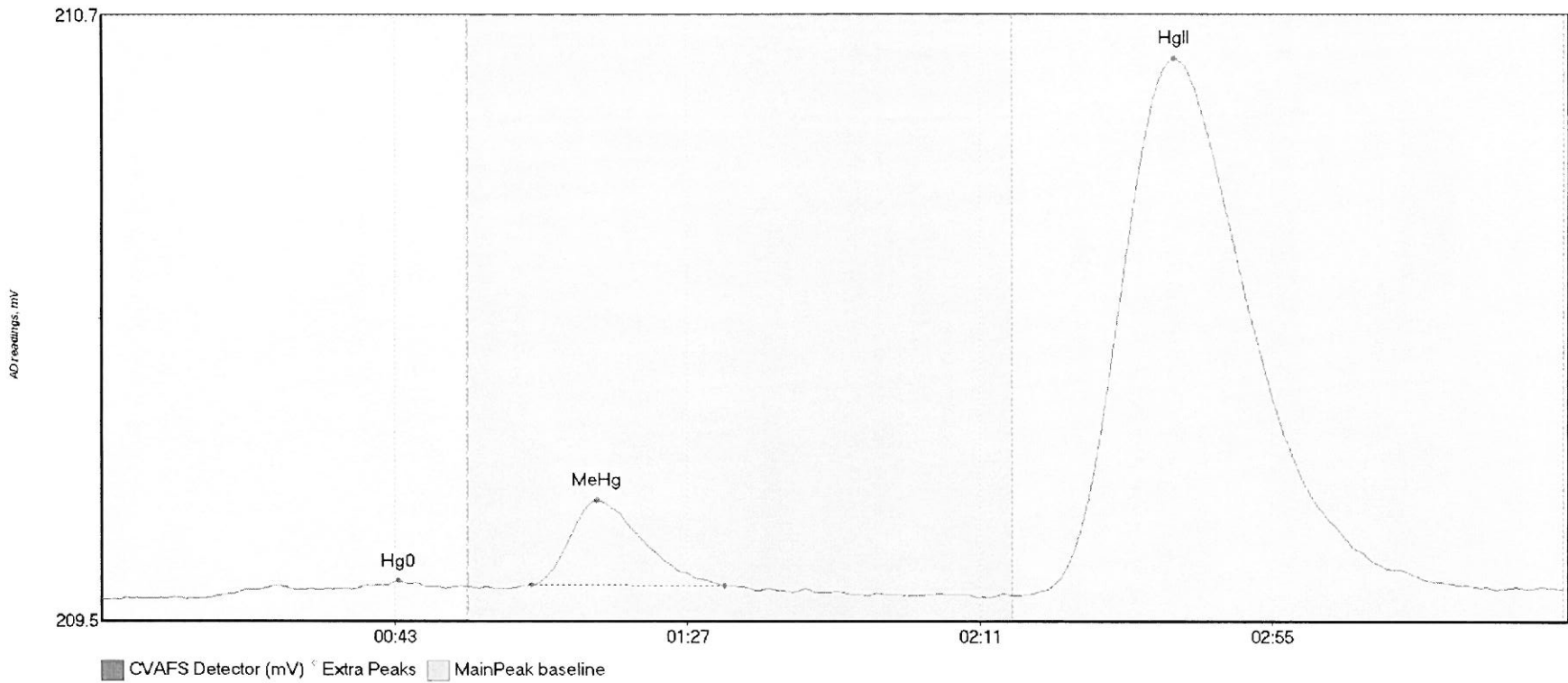
017

#60: F708416-MSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708416-MSD2 Hg	4.013	16.3	55.0	209.52	209.54	44.5	0.029	CT	209.5188	0.00	0.00	
F708416-MSD2 Me	476.989	62.2	128.8	209.54	209.54	74.7	3.334	OK	209.5188	0.00	0.00	
F708416-MSD2 Hg	28.047	141.8	183.9	209.53	209.53	159.4	0.136	OK	209.5188	0.00	0.00	

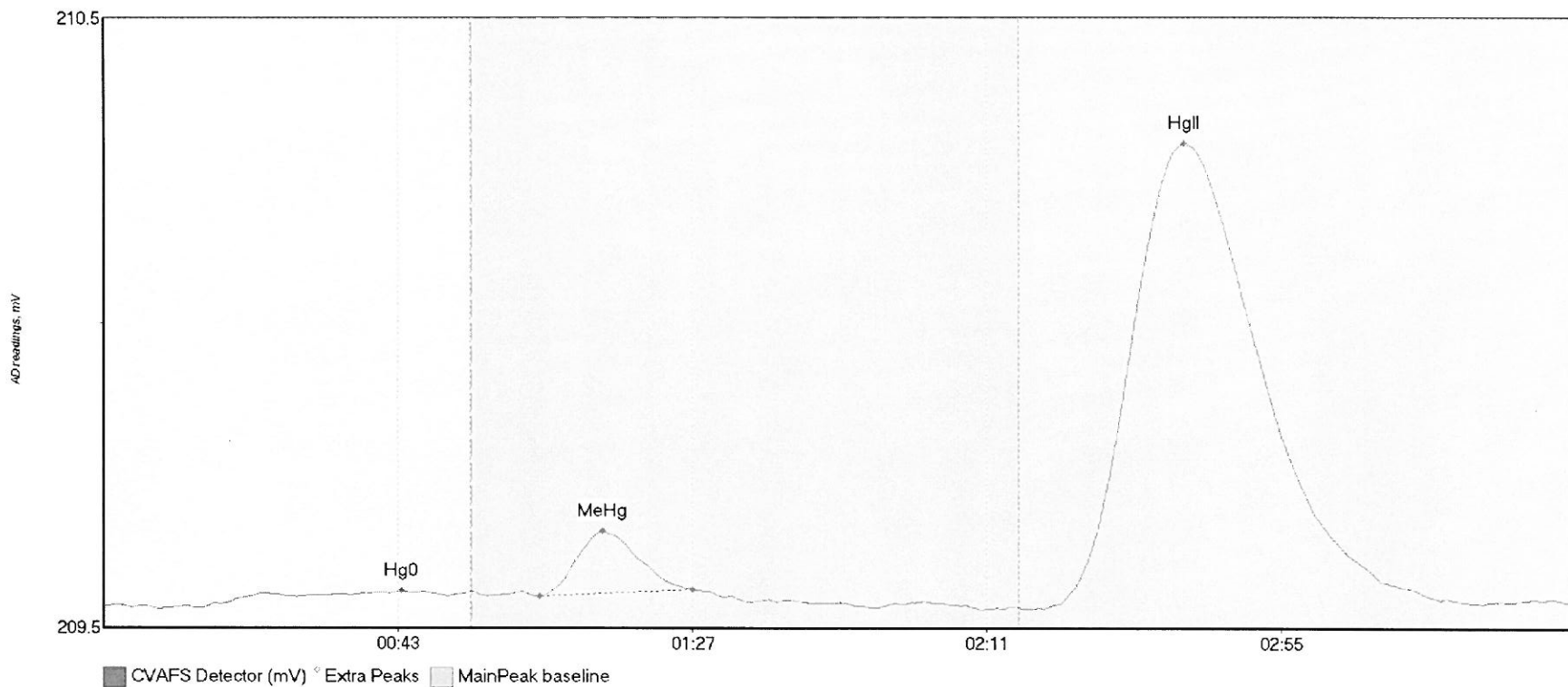
#61: 1707810-30



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707810-30 Hg0	3.621	15.5	51.7	209.52	209.54	44.6	0.033	OK	209.5215	0.00	0.02	
1707810-30 MeHg	20.976	64.6	93.6	209.55	209.55	74.4	0.166	OK	209.5215	0.00	0.02	
1707810-30 HgII	235.692	139.3	209.9	209.53	209.54	161.3	1.046	OK	209.5215	0.00	0.02	

017

#62: 1707810-31

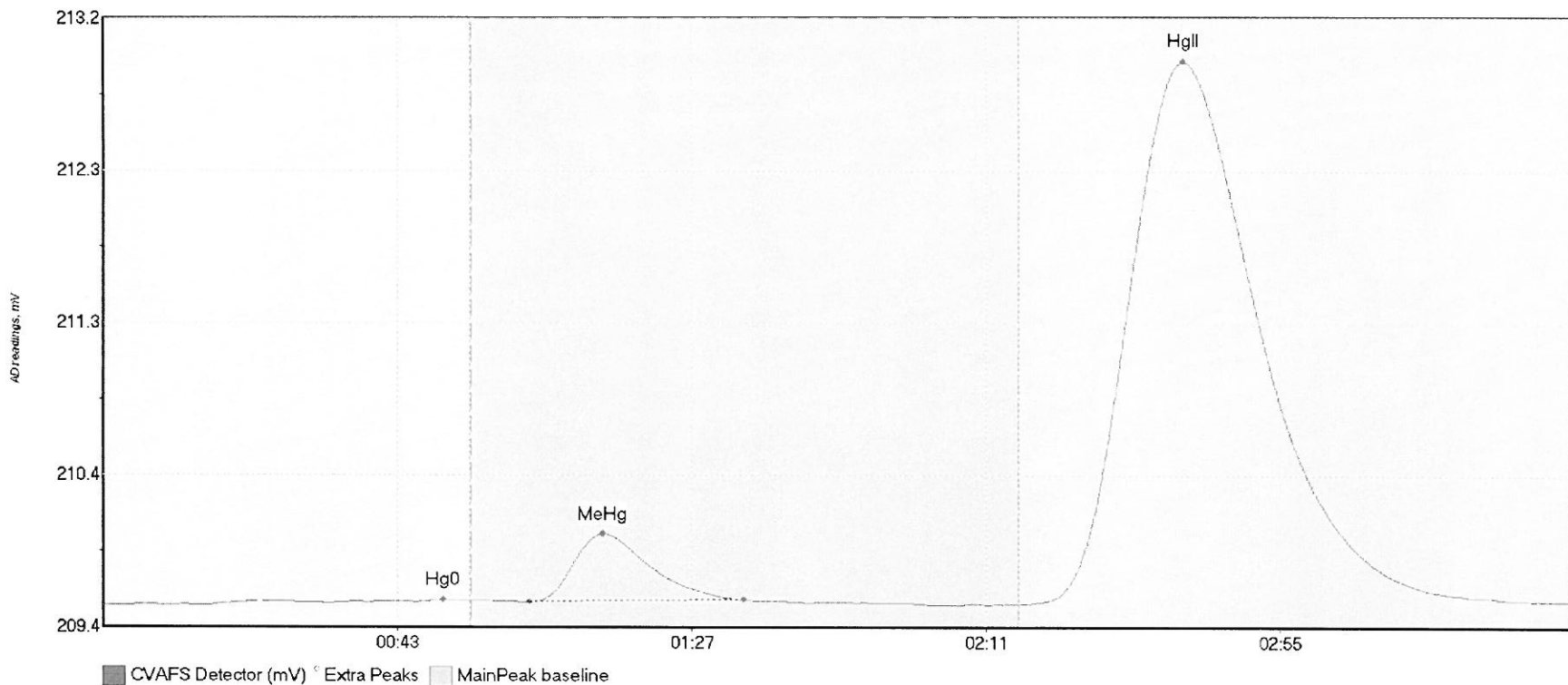


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707810-31 Hg0	2.846	17.3	51.3	209.55	209.56	44.6	0.020	OK	209.5455	0.00	0.01	
1707810-31 MeHg	10.758	65.1	88.0	209.56	209.57	74.6	0.107	OK	209.5455	0.00	0.01	
1707810-31 HgII	170.362	140.5	206.1	209.54	209.55	161.4	0.765	OK	209.5455	0.00	0.01	

017



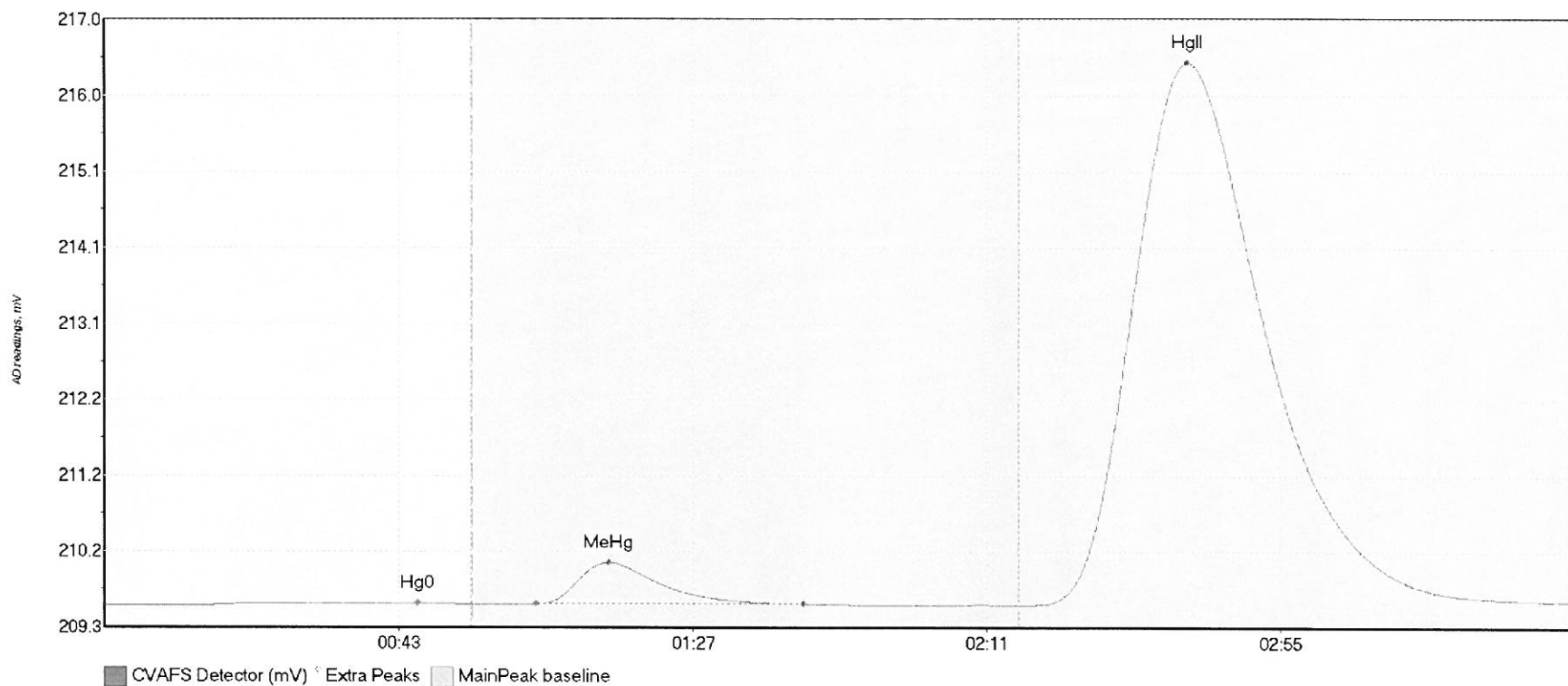
#63: 1707810-44



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707810-44 Hg0	2.214	16.0	52.3	209.55	209.58	50.8	0.030	OK	209.5450	0.00	0.03	
1707810-44 MeHg	55.165	63.7	95.8	209.57	209.58	74.8	0.430	OK	209.5450	0.00	0.03	
1707810-44 HgII	769.460	137.8	216.4	209.55	209.57	161.4	3.417	OK	209.5450	0.00	0.03	

017

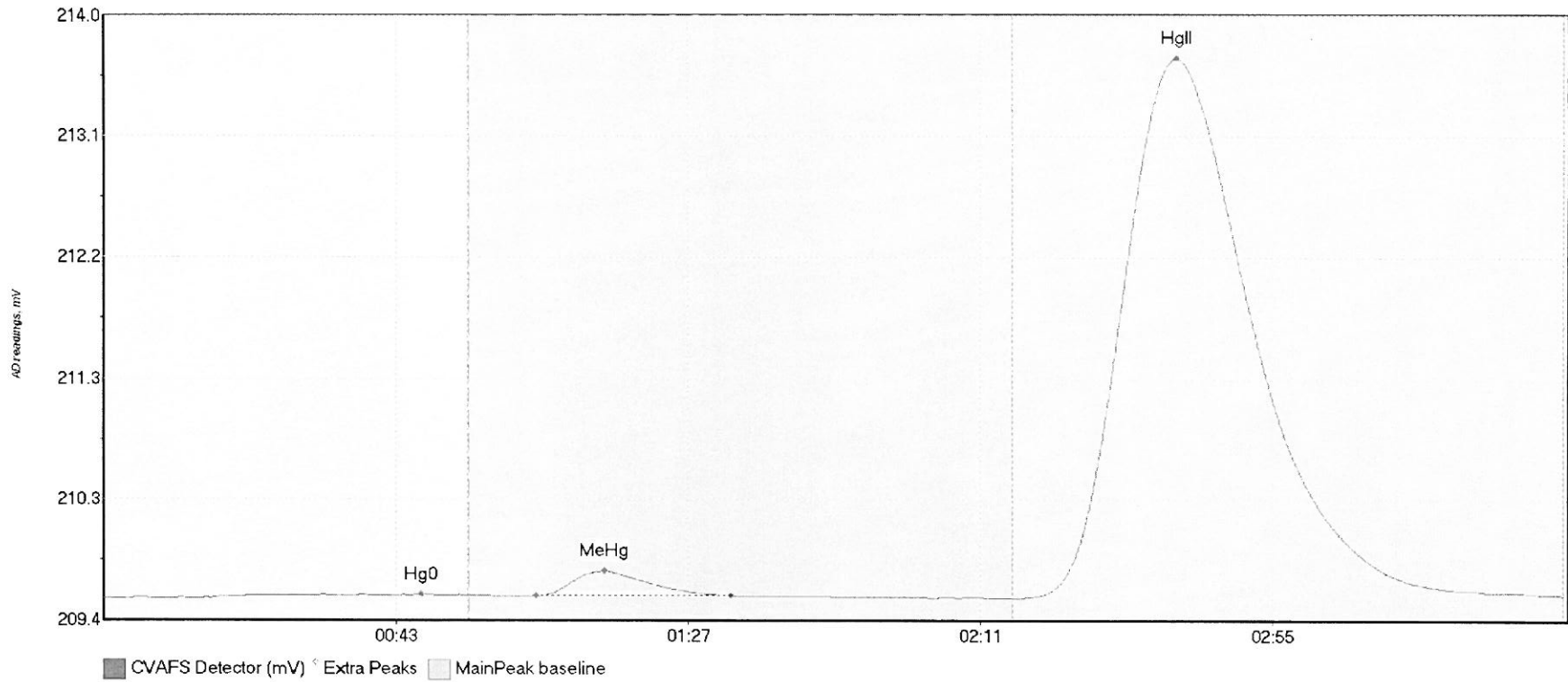
#64: 1707810-45



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707810-45 Hg0	6.188	14.1	55.0	209.56	209.58	46.8	0.031	CT	209.5574	0.00	0.06	
1707810-45 MeHg	72.615	64.6	104.6	209.58	209.58	75.5	0.528	OK	209.5574	0.00	0.06	
1707810-45 HgII	1553.797	137.5	219.8	209.56	209.62	162.1	6.899	CT	209.5574	0.00	0.06	

017

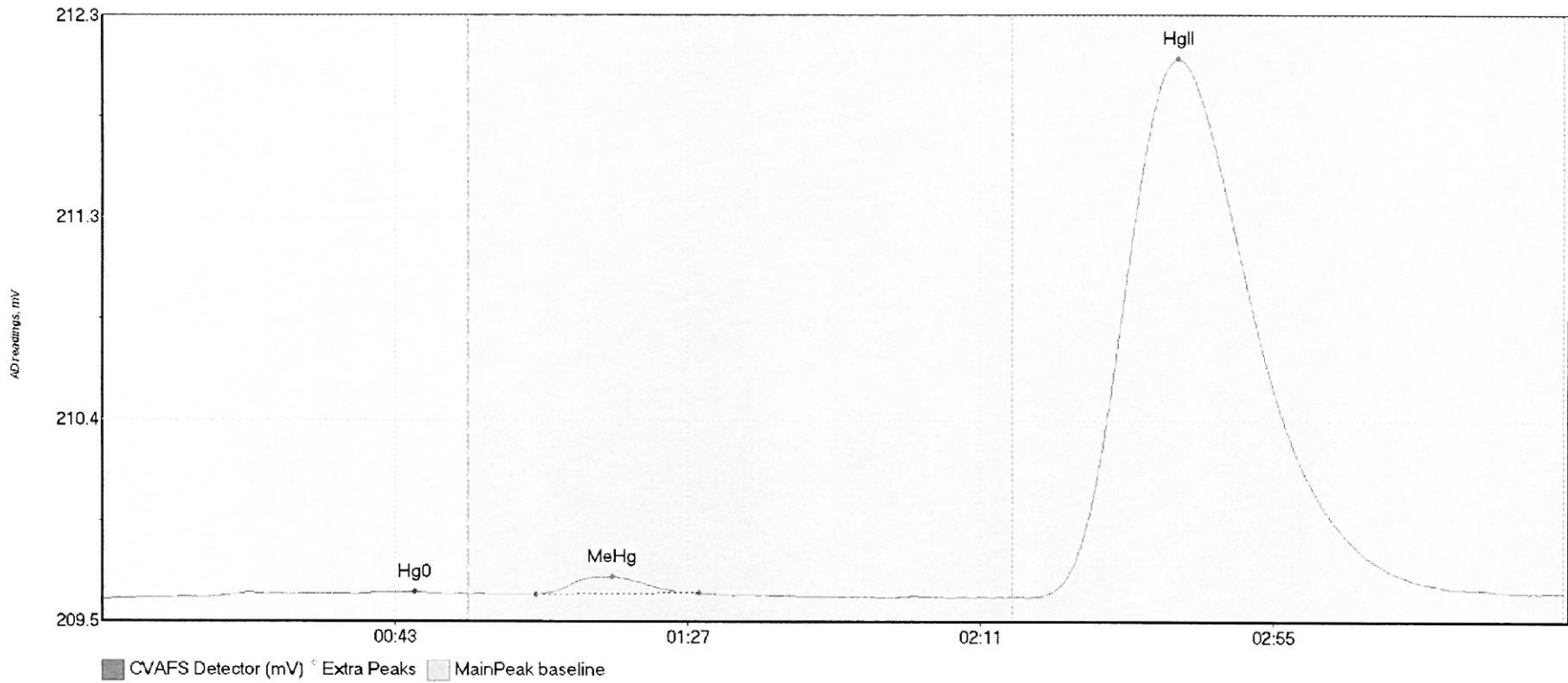
#65: 1707810-54



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707810-54 Hg0	3.971	14.1	51.6	209.56	209.58	47.8	0.029	OK	209.5605	0.00	0.03	
1707810-54 MeHg	24.253	65.1	94.5	209.58	209.58	75.4	0.190	OK	209.5605	0.00	0.03	
1707810-54 HgII	929.231	137.8	219.8	209.56	209.59	161.6	4.140	CT	209.5605	0.00	0.03	

017

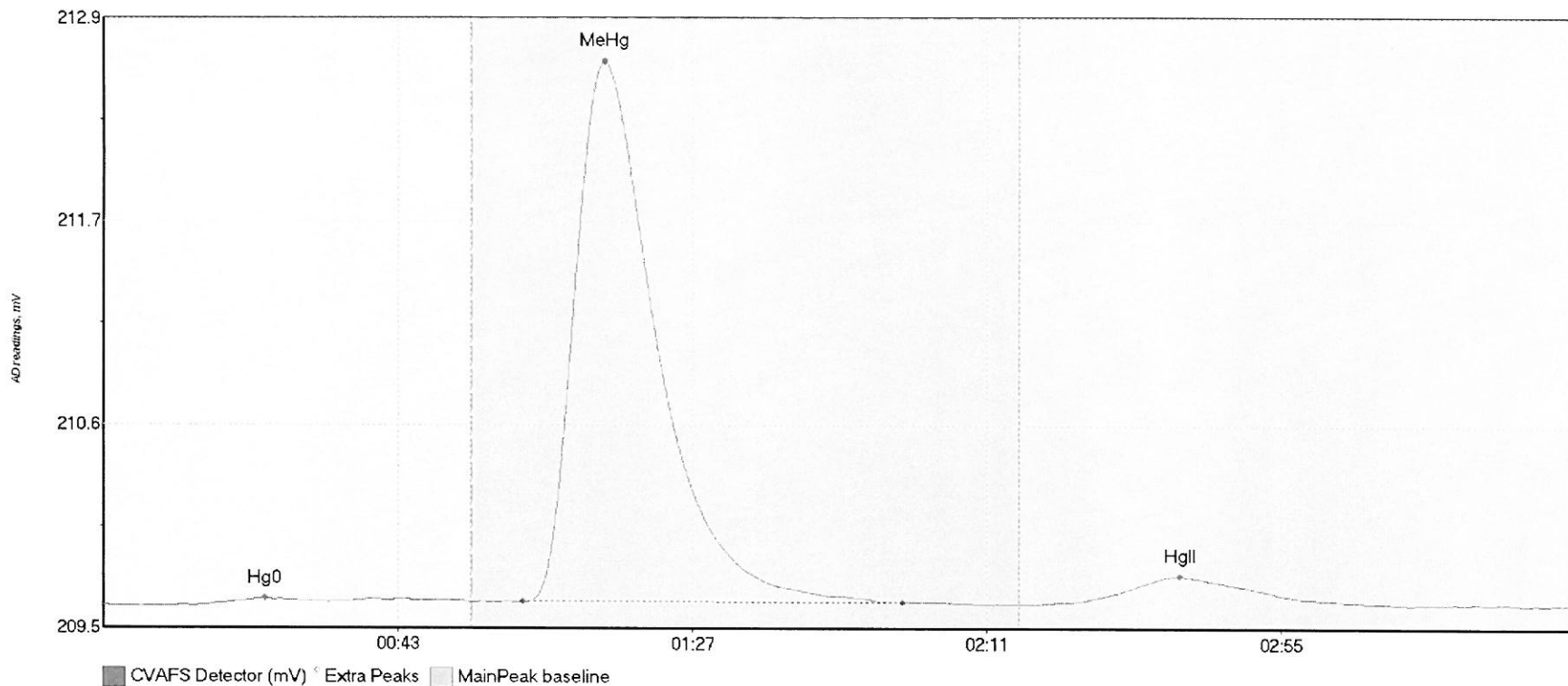
#66: 1707810-55



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1707810-55 Hg0	5.027	0.1	51.4	209.56	209.58	47.0	0.035	OK	209.5600	0.00	0.03	
1707810-55 MeHg	9.912	65.2	89.7	209.58	209.59	76.7	0.083	OK	209.5600	0.00	0.03	
1707810-55 HgII	564.058	139.9	216.1	209.57	209.59	161.8	2.503	OK	209.5600	0.00	0.03	

017

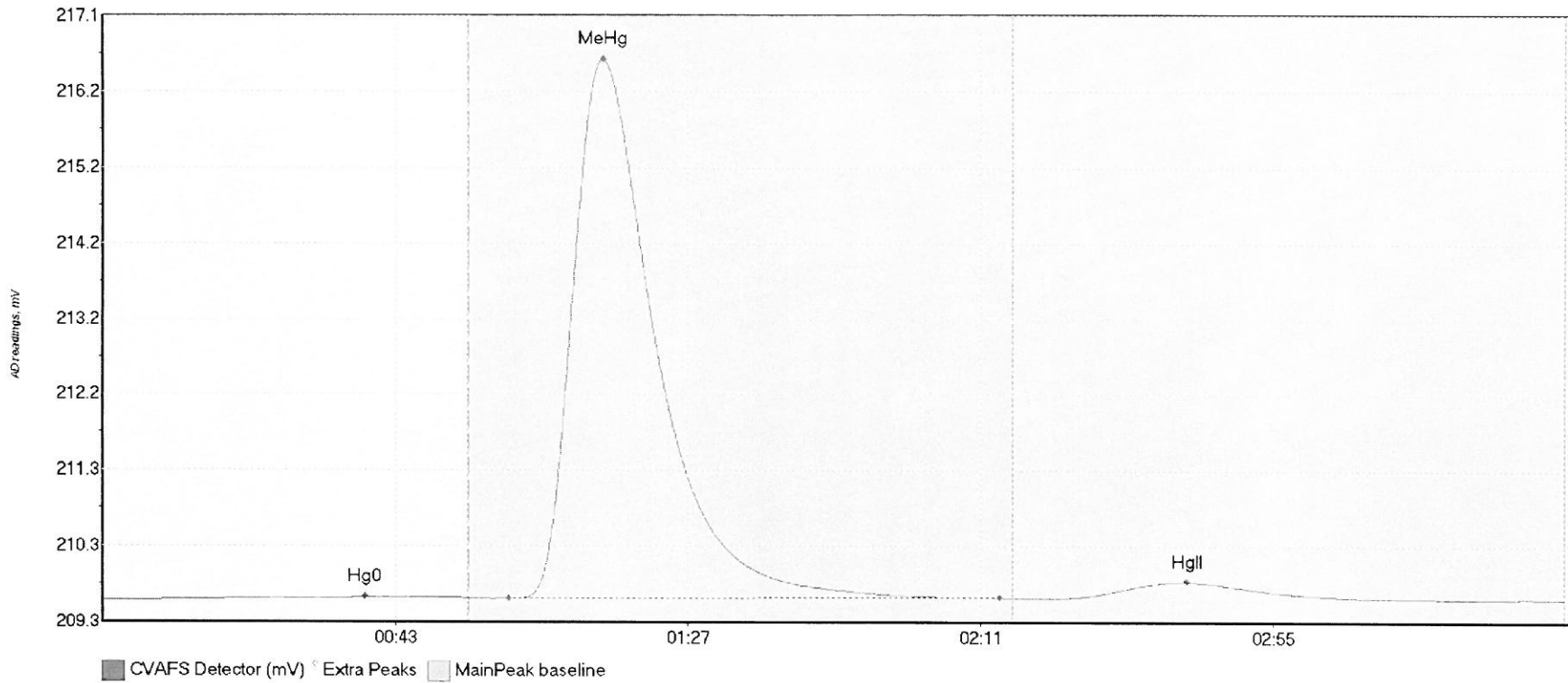
#67: 1708148-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708148-01 Hg0	6.878	13.8	55.0	209.59	209.61	24.2	0.038	CT	209.5878	0.00	0.00	
1708148-01 MeHg	430.635	62.6	119.4	209.61	209.60	74.9	3.027	OK	209.5878	0.00	0.00	
1708148-01 HgII	31.990	139.6	189.1	209.59	209.60	160.9	0.157	OK	209.5878	0.00	0.00	

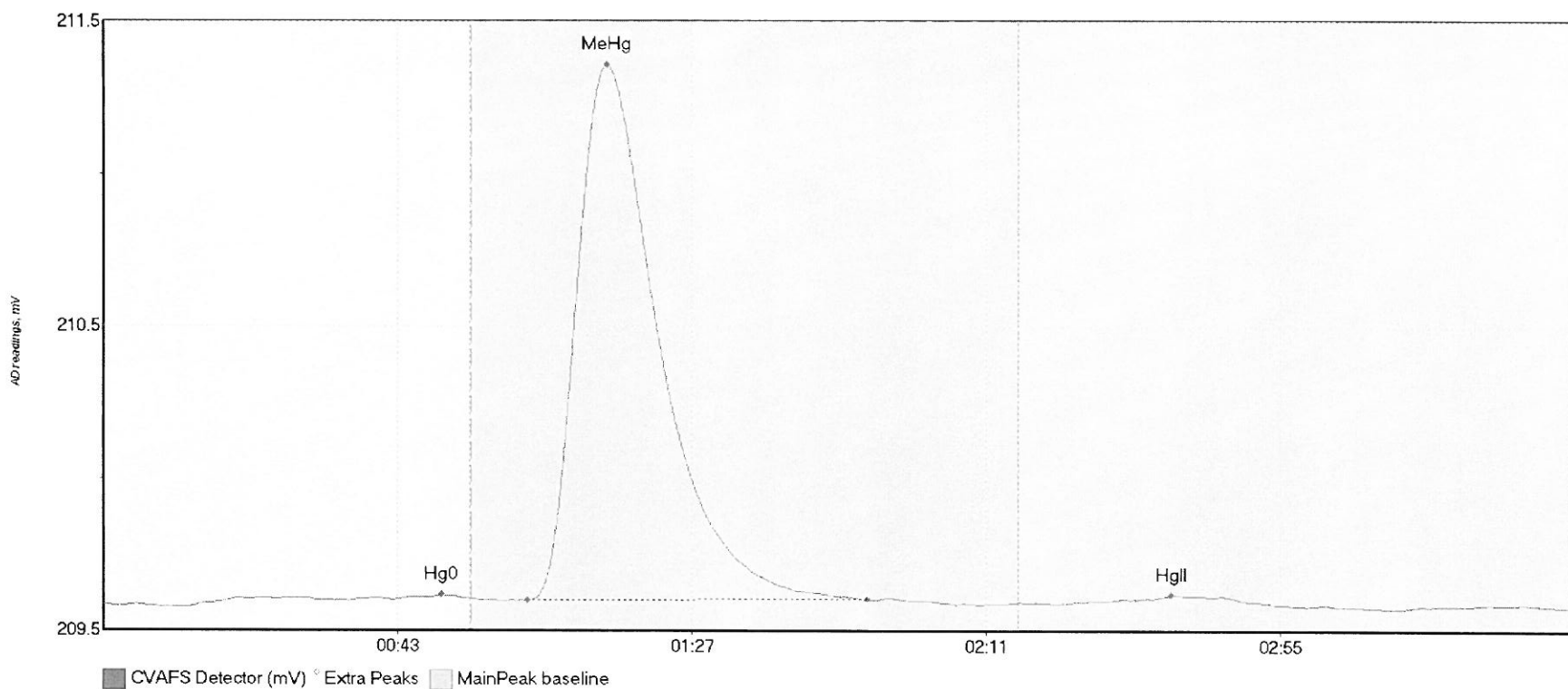
017

#68: 1708148-02



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708148-02 Hg0	5.581	5.9	55.0	209.59	209.61	39.4	0.039	CT	209.5865	0.00	0.01	
1708148-02 MeHg	1007.134	61.0	134.9	209.61	209.62	75.3	6.966	OK	209.5865	0.00	0.01	
1708148-02 HgII	44.552	144.2	190.0	209.61	209.61	163.1	0.216	OK	209.5865	0.00	0.01	

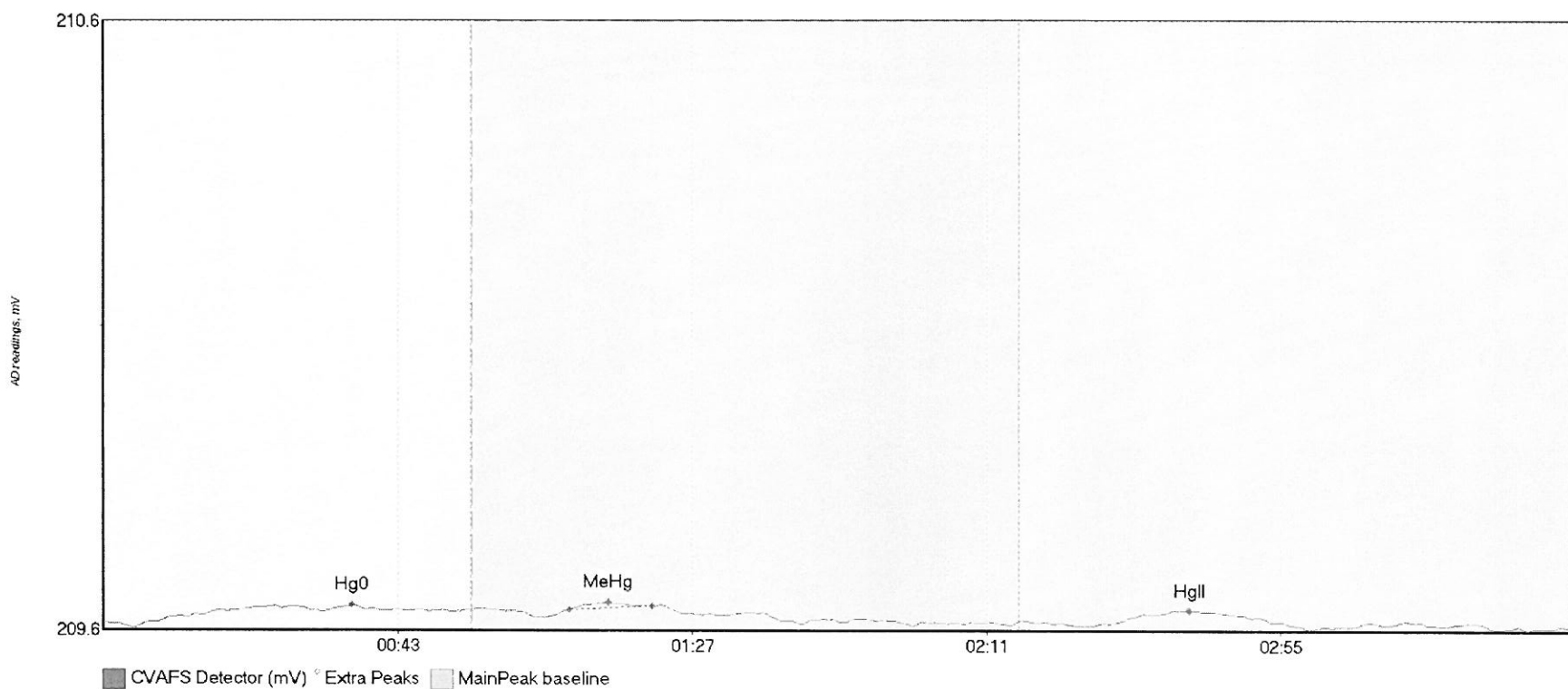
#69: SEQ-CCV5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	4.919	12.6	55.0	209.60	209.62	50.6	0.037	CT	209.6053	0.00	-0.01	
SEQ-CCV5 MeHg	241.424	63.5	114.1	209.62	209.62	75.3	1.701	OK	209.6053	0.00	-0.01	
SEQ-CCV5 HgII	2.440	149.6	171.8	209.62	209.61	159.8	0.019	OK	209.6053	0.00	-0.01	

017

#70: SEQ-CCB5

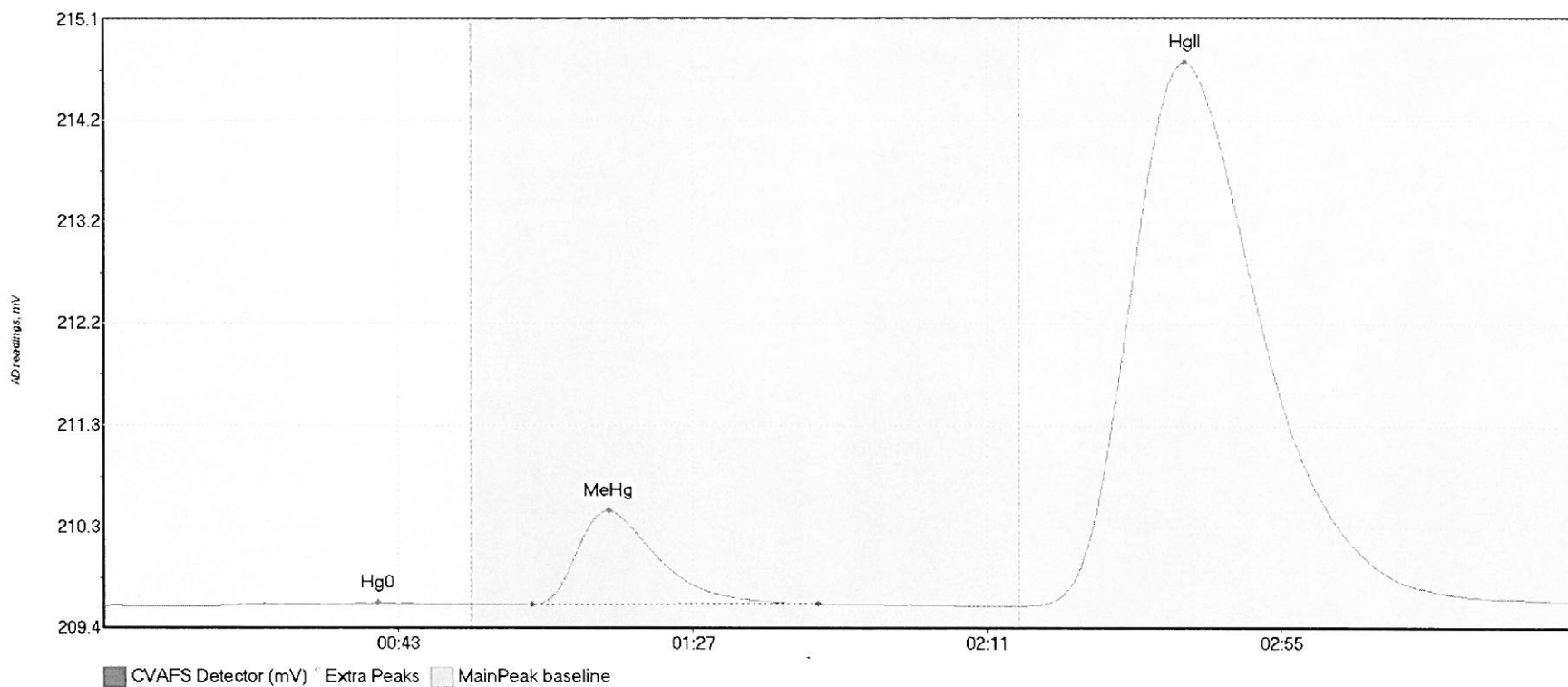


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB5 Hg0	4.459	8.2	51.9	209.60	209.61	37.1	0.027	OK	209.5942	0.00	-0.01	
SEQ-CCB5 MeHg	0.644	69.6	82.0	209.62	209.62	75.5	0.011	OK	209.5942	0.00	-0.01	
SEQ-CCB5 HgII	1.952	152.1	171.6	209.60	209.60	162.3	0.019	OK	209.5942	0.00	-0.01	

017



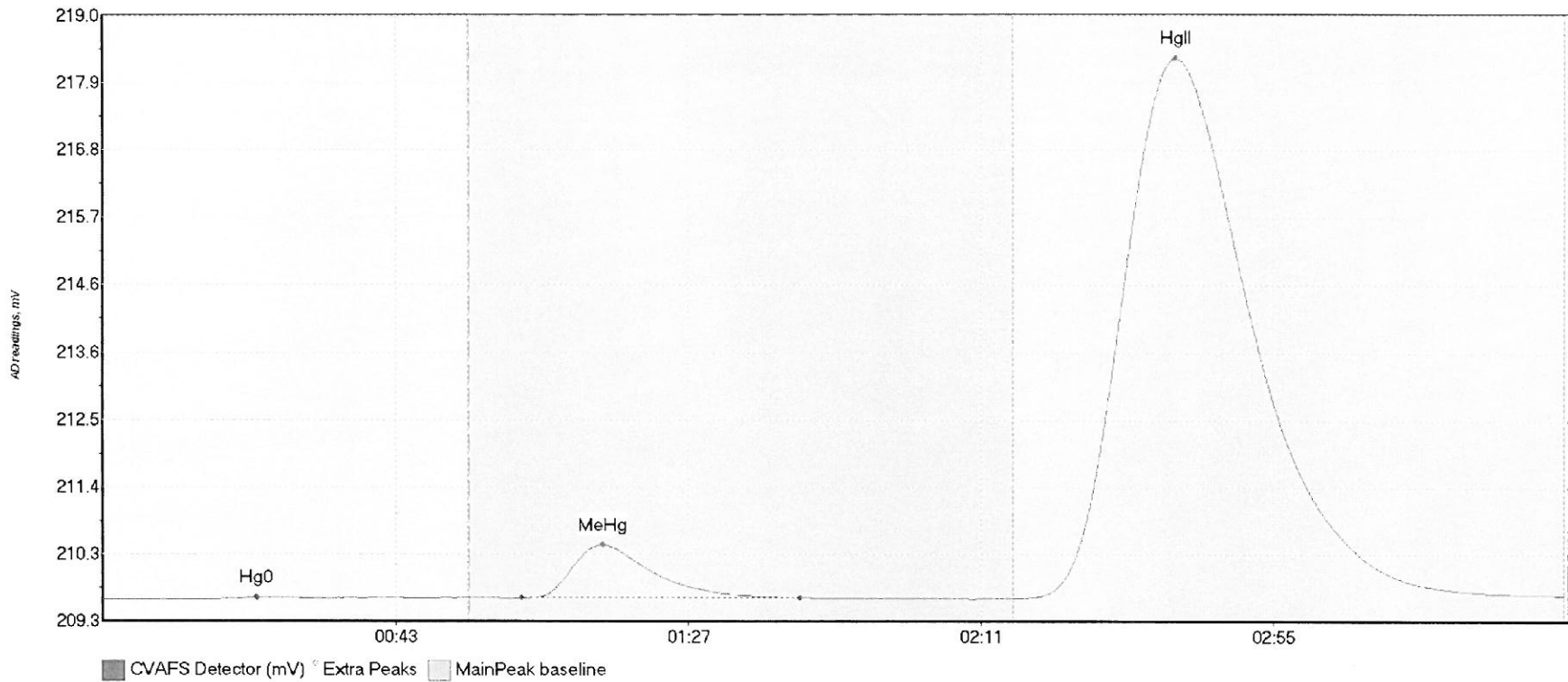
#71: 1708151-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-01 Hg0	2.323	18.7	49.9	209.61	209.62	41.0	0.020	OK	209.6018	0.00	0.04	
1708151-01 MeHg	121.826	64.0	106.8	209.61	209.62	75.4	0.881	OK	209.6018	0.00	0.04	
1708151-01 HgII	1152.992	137.5	219.1	209.60	209.64	161.6	5.095	OK	209.6018	0.00	0.04	

017

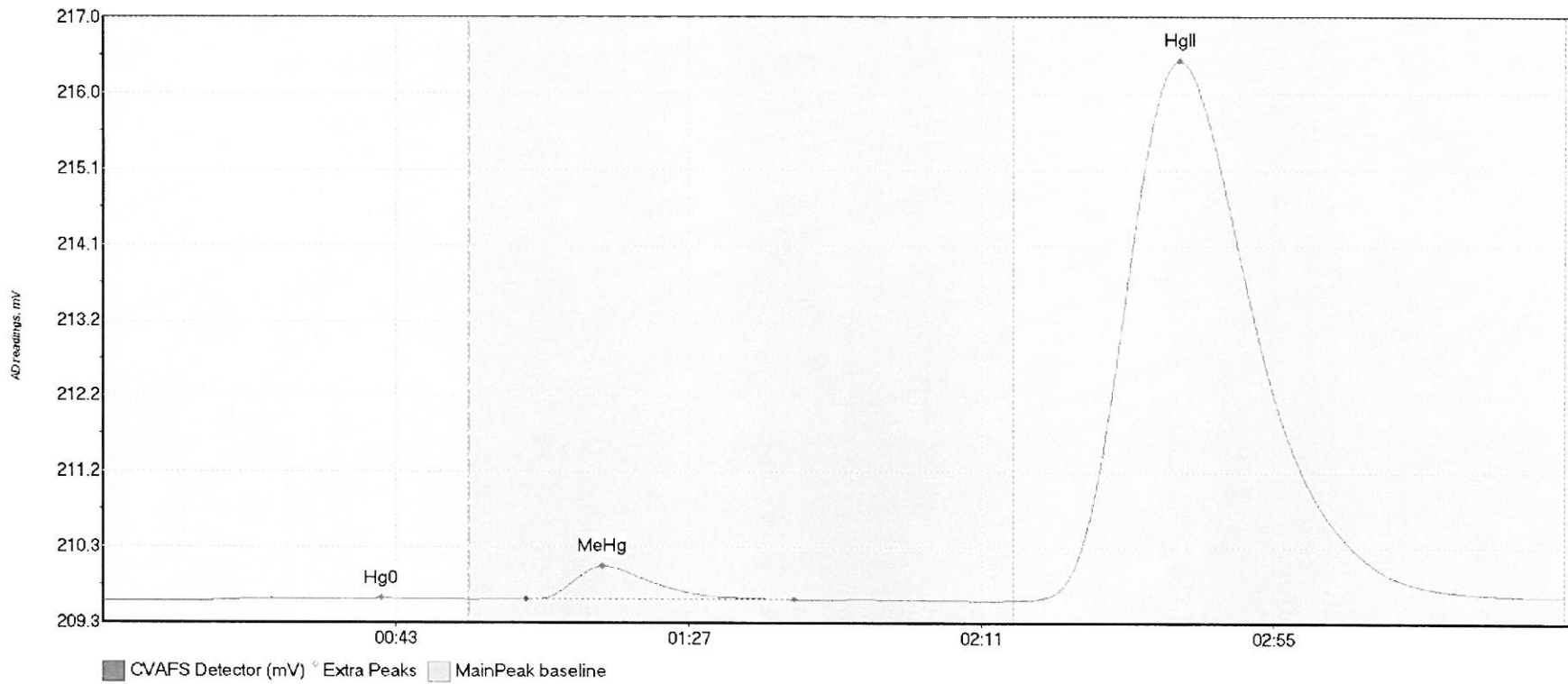
#72: 1708151-02



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-02 Hg0	1.838	16.1	31.9	209.61	209.62	23.2	0.026	OK	209.6021	0.00	0.07	
1708151-02 MeHg	117.688	62.8	104.8	209.62	209.63	75.1	0.854	OK	209.6021	0.00	0.07	
1708151-02 HgII	1935.593	136.8	219.8	209.62	209.67	161.3	8.645	CT	209.6021	0.00	0.07	

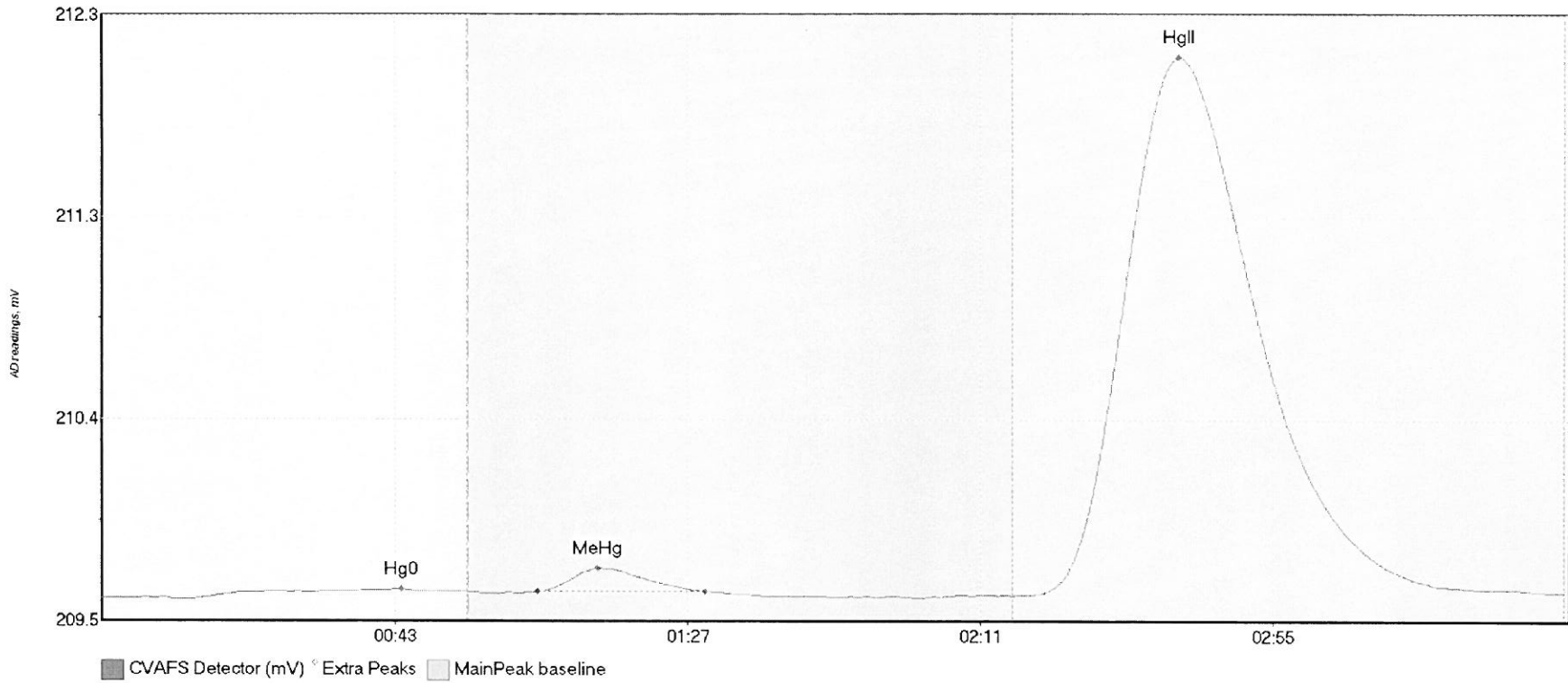
017

#73: 1708151-03



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-03 Hg0	6.112	14.2	55.0	209.60	209.62	41.8	0.033	CT	209.6027	0.00	0.06	
1708151-03 MeHg	57.699	63.6	103.9	209.63	209.62	75.0	0.417	OK	209.6027	0.00	0.06	
1708151-03 HgII	1531.710	137.0	219.8	209.61	209.66	161.9	6.847	CT	209.6027	0.00	0.06	

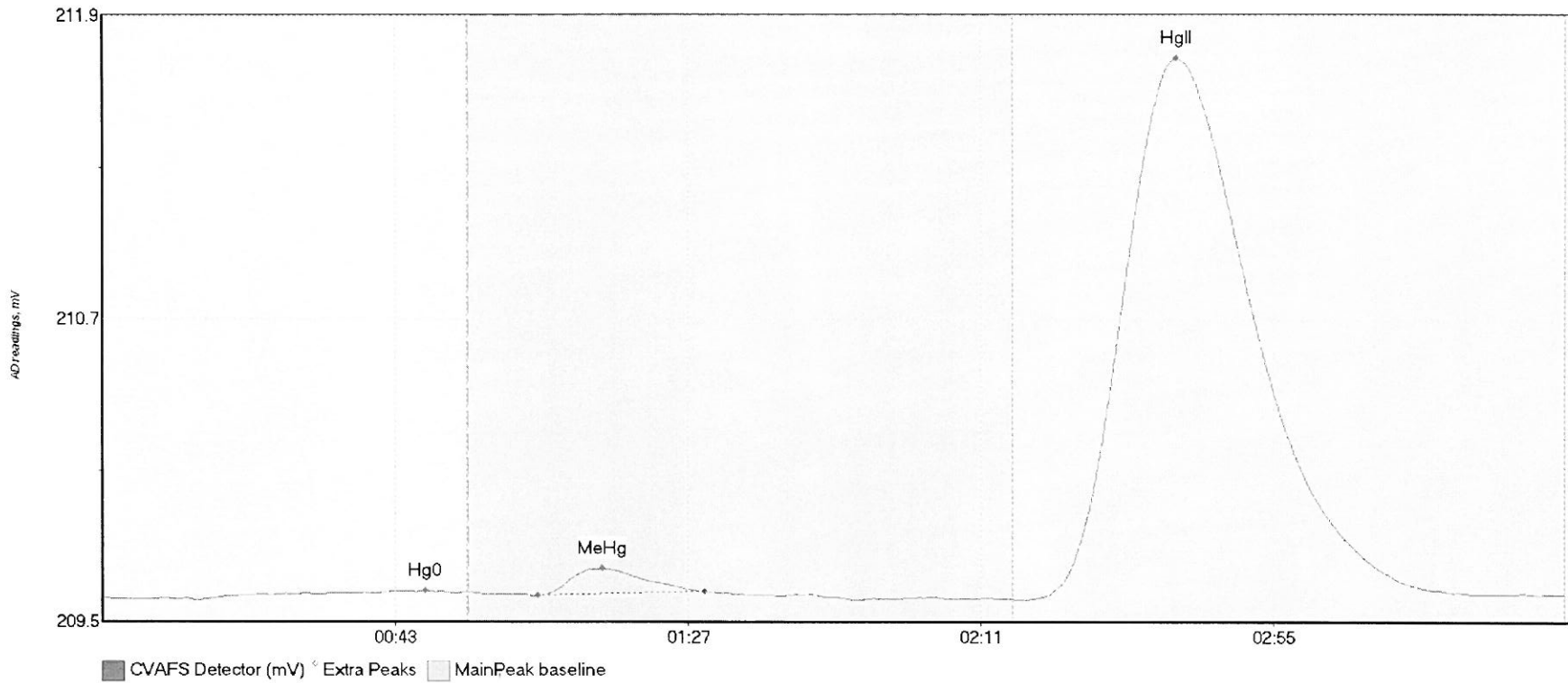
#74: 1708156-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708156-01 Hg0	5.673	13.1	49.4	209.59	209.63	45.0	0.045	OK	209.5976	0.00	0.03	
1708156-01 MeHg	12.878	65.5	90.6	209.63	209.63	74.4	0.105	OK	209.5976	0.00	0.03	
1708156-01 HgII	562.208	139.5	219.8	209.61	209.62	161.9	2.456	CT	209.5976	0.00	0.03	

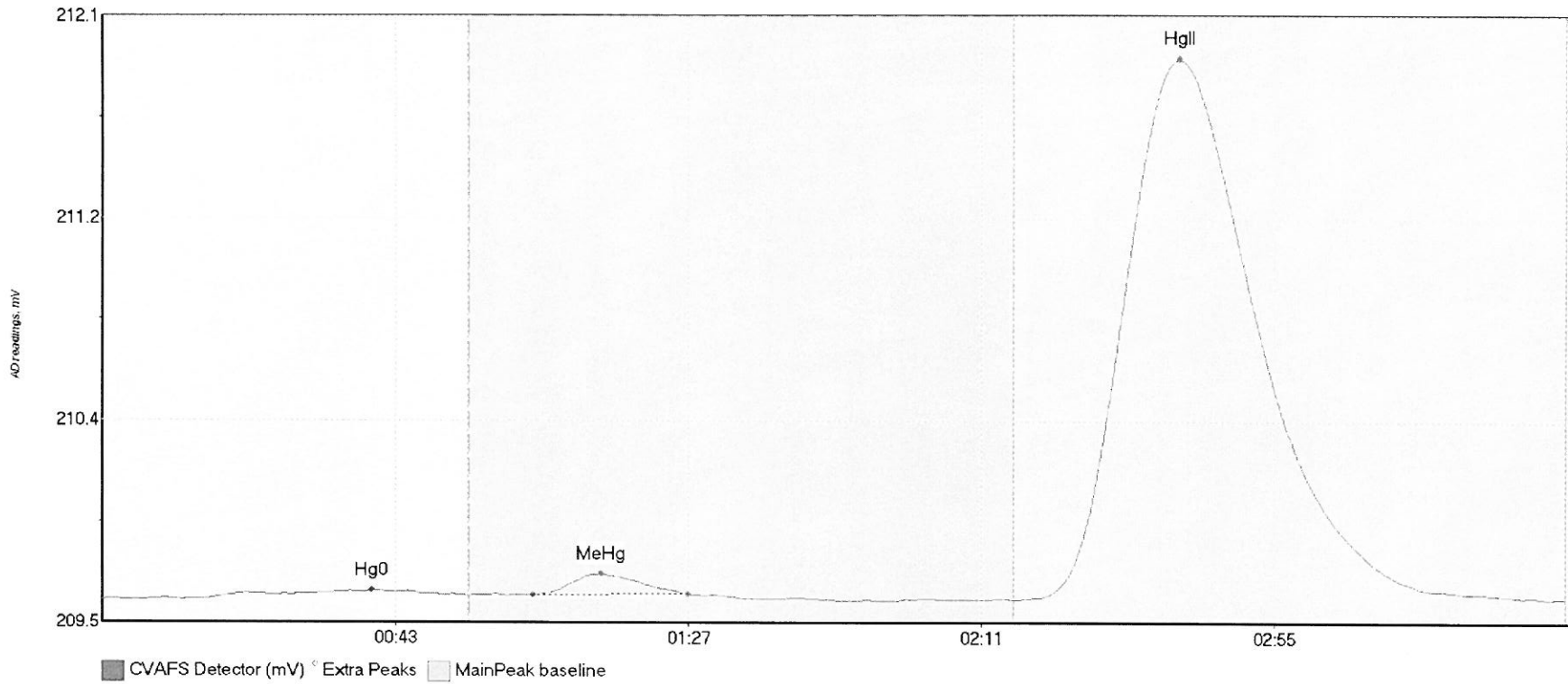
017

#75: 1708156-02



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708156-02 Hg0	4.061	14.6	53.3	209.59	209.61	48.6	0.035	OK	209.5944	0.00	0.02	
1708156-02 MeHg	12.727	65.5	90.5	209.60	209.62	75.2	0.107	OK	209.5944	0.00	0.02	
1708156-02 HgII	479.800	138.3	216.0	209.59	209.61	161.4	2.128	OK	209.5944	0.00	0.02	

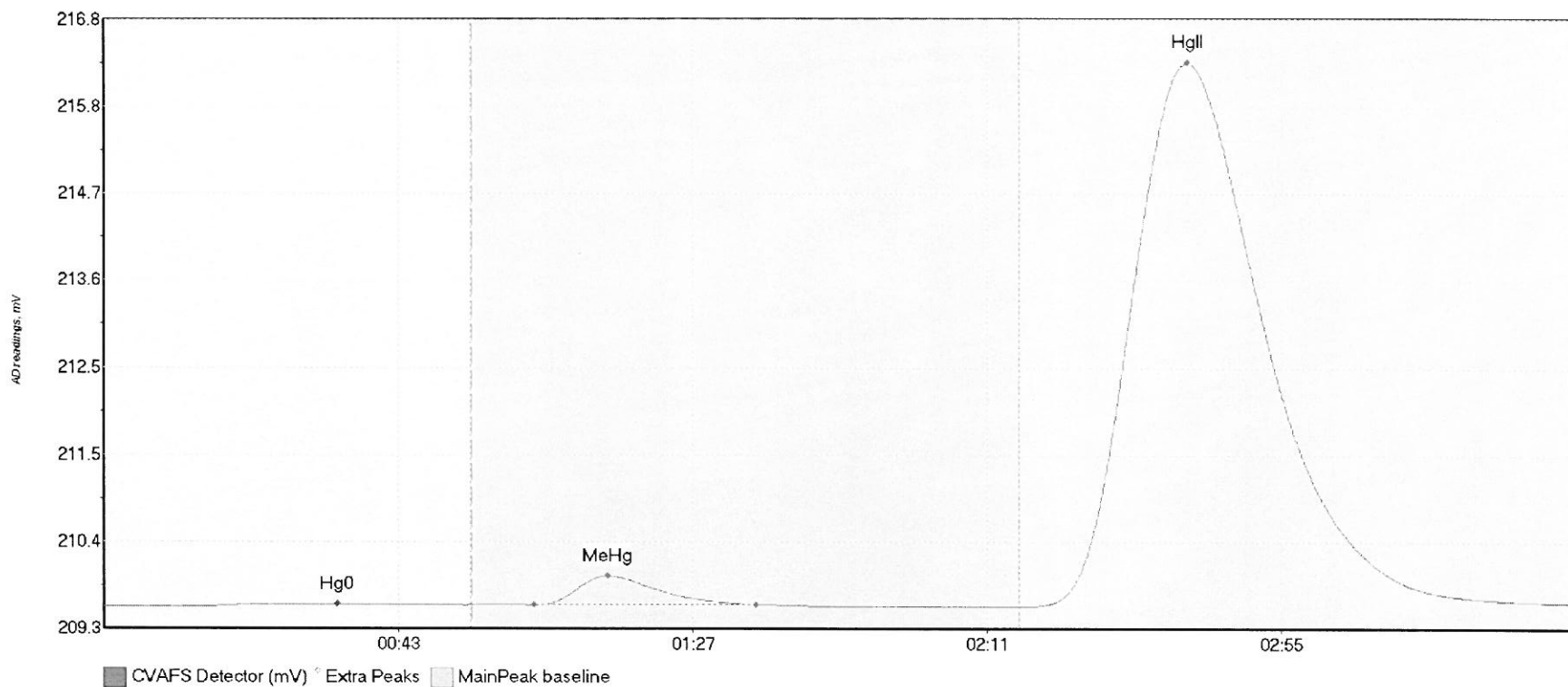
#76: 1708156-03



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708156-03 Hg0	5.966	15.4	54.9	209.58	209.60	40.5	0.032	OK	209.5819	0.00	0.01	
1708156-03 MeHg	10.321	64.6	87.9	209.60	209.60	74.9	0.091	OK	209.5819	0.00	0.01	
1708156-03 HgII	534.511	137.6	217.2	209.58	209.58	161.7	2.339	OK	209.5819	0.00	0.01	

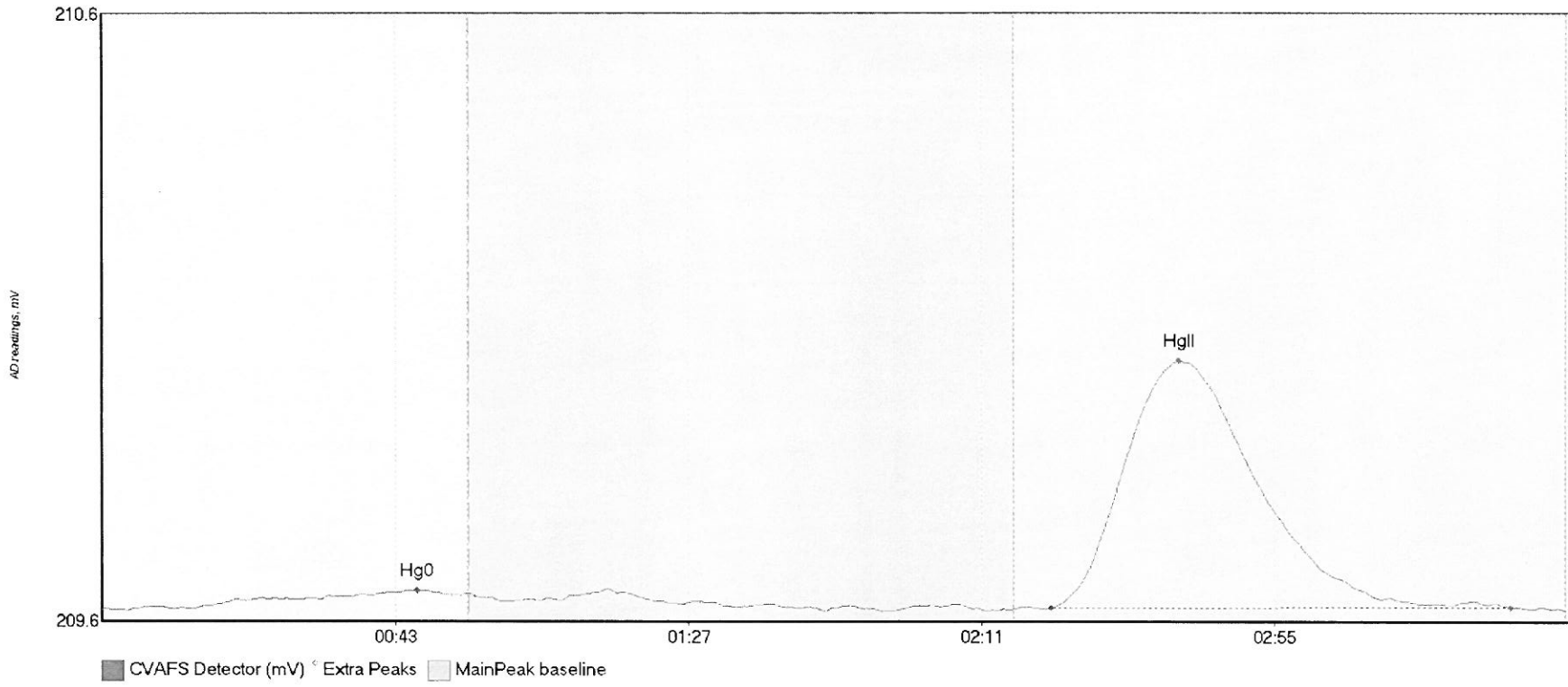
017

#77: 1708156-04



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708156-04 Hg0	4.745	13.3	54.2	209.58	209.60	34.8	0.028	OK	209.5779	0.00	0.05	
1708156-04 MeHg	48.483	64.3	97.5	209.59	209.60	75.3	0.363	OK	209.5779	0.00	0.05	
1708156-04 HgII	1515.519	138.1	219.8	209.58	209.62	162.0	6.708	CT	209.5779	0.00	0.05	

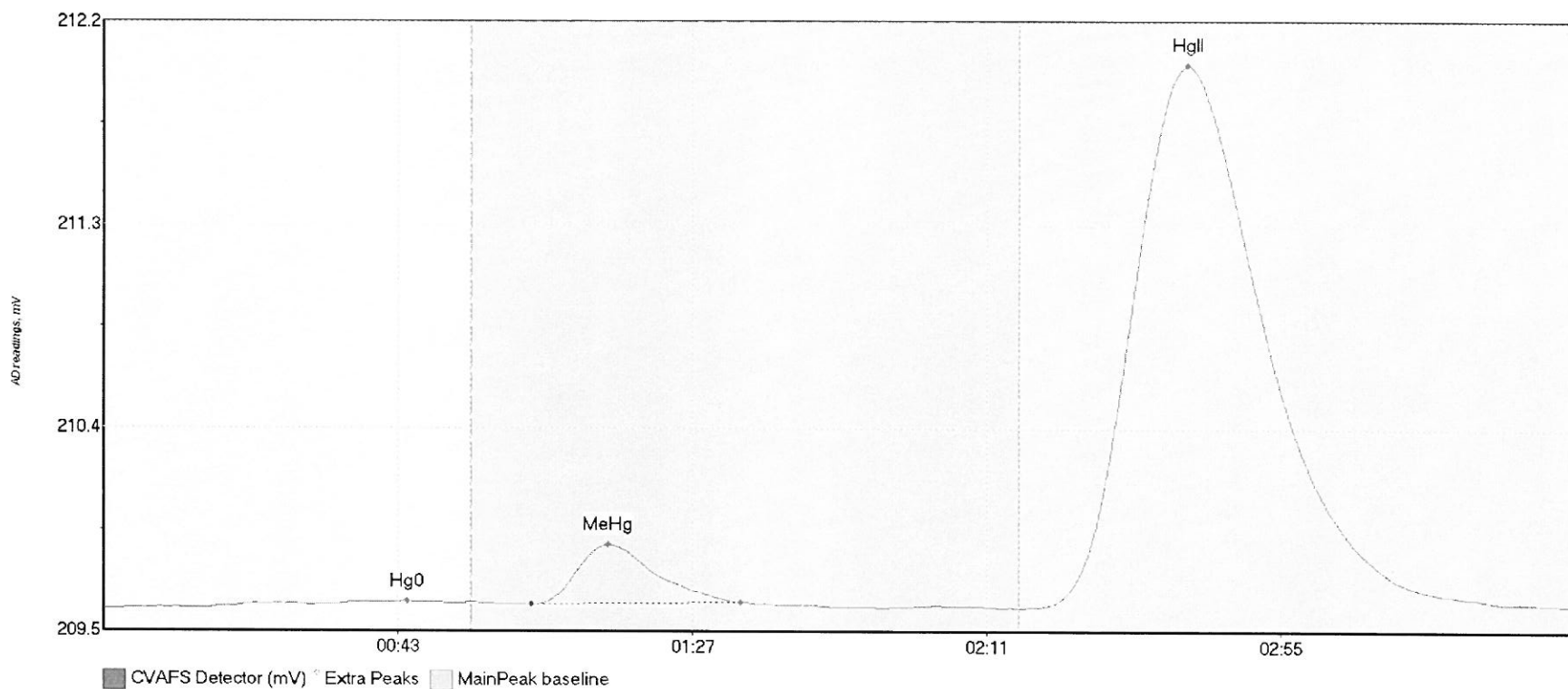
#78: 1708156-05



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708156-05 Hg0	3.054	13.5	52.4	209.58	209.61	47.3	0.031	OK	209.5831	0.00	0.00	
1708156-05 HgII	93.161	142.4	211.6	209.58	209.59	161.8	0.409	OK	209.5831	0.00	0.00	017

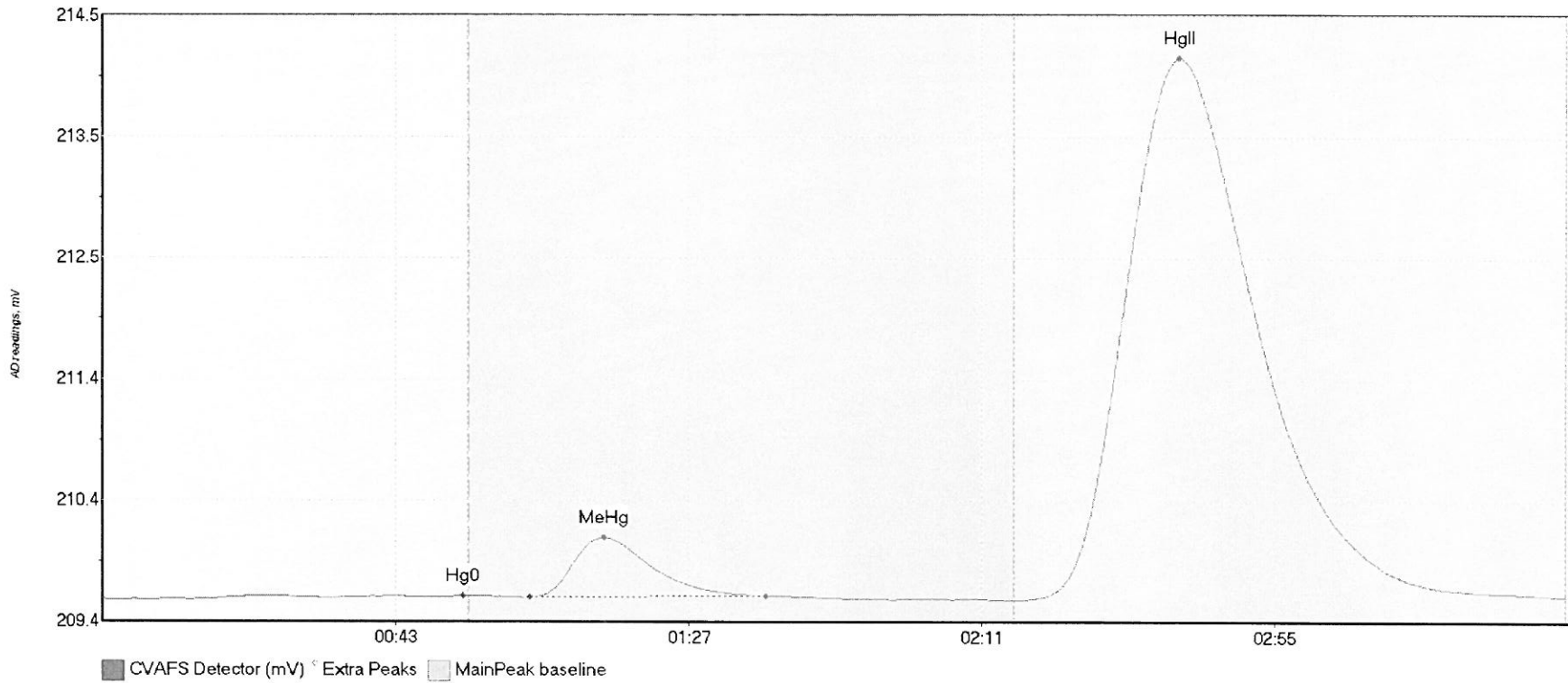


#79: 1708156-06



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708156-06 Hg0	3.902	15.1	52.9	209.59	209.61	45.4	0.031	OK	209.5859	0.00	0.02	
1708156-06 MeHg	34.574	64.0	95.2	209.61	209.61	75.4	0.263	OK	209.5859	0.00	0.02	
1708156-06 HgII	541.405	139.5	218.3	209.59	209.60	162.1	2.382	OK	209.5859	0.00	0.02	

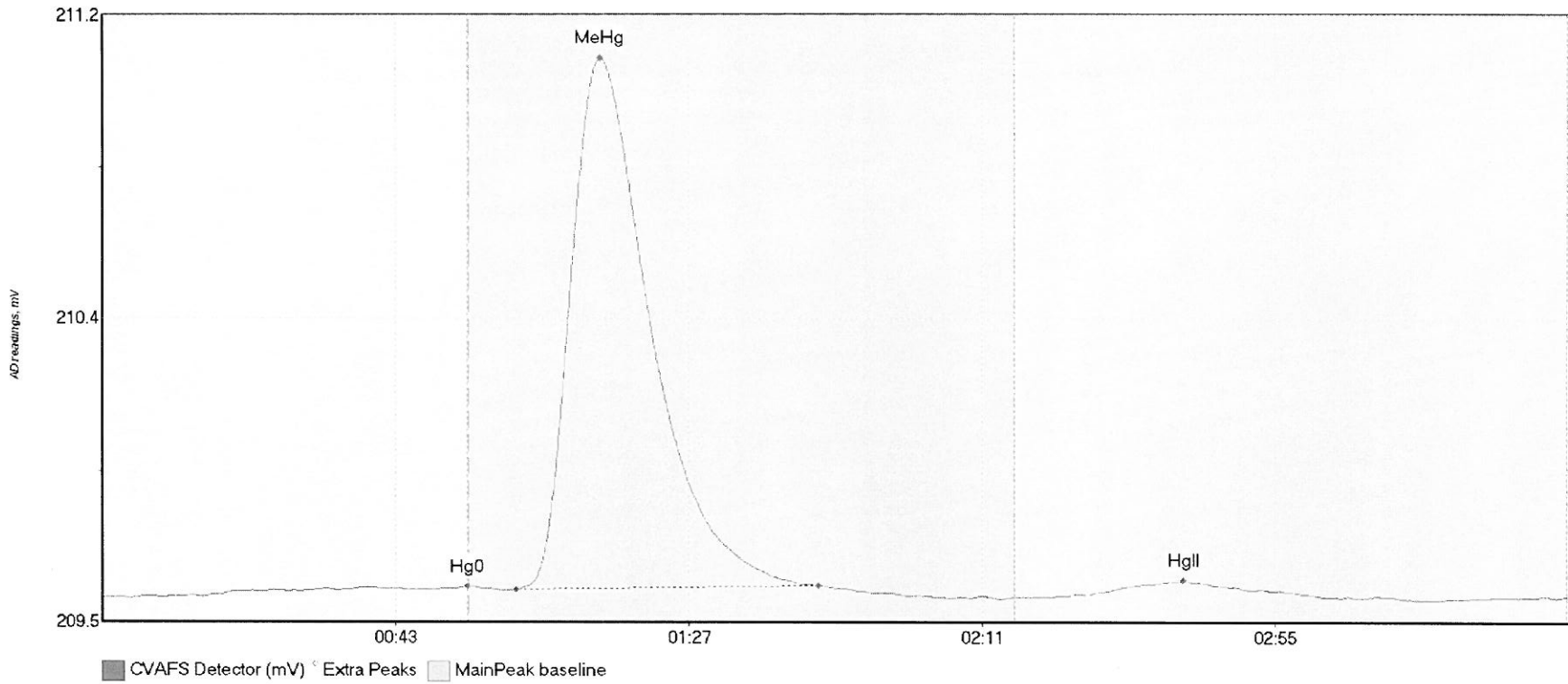
#80: 1708156-07



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708156-07 Hg0	2.650	16.3	55.0	209.58	209.61	54.1	0.026	CT	209.5783	0.00	0.03	
1708156-07 MeHg	67.297	64.2	99.6	209.59	209.60	75.3	0.505	OK	209.5783	0.00	0.03	
1708156-07 HgII	1038.556	137.3	219.8	209.57	209.60	161.8	4.576	CT	209.5783	0.00	0.03	

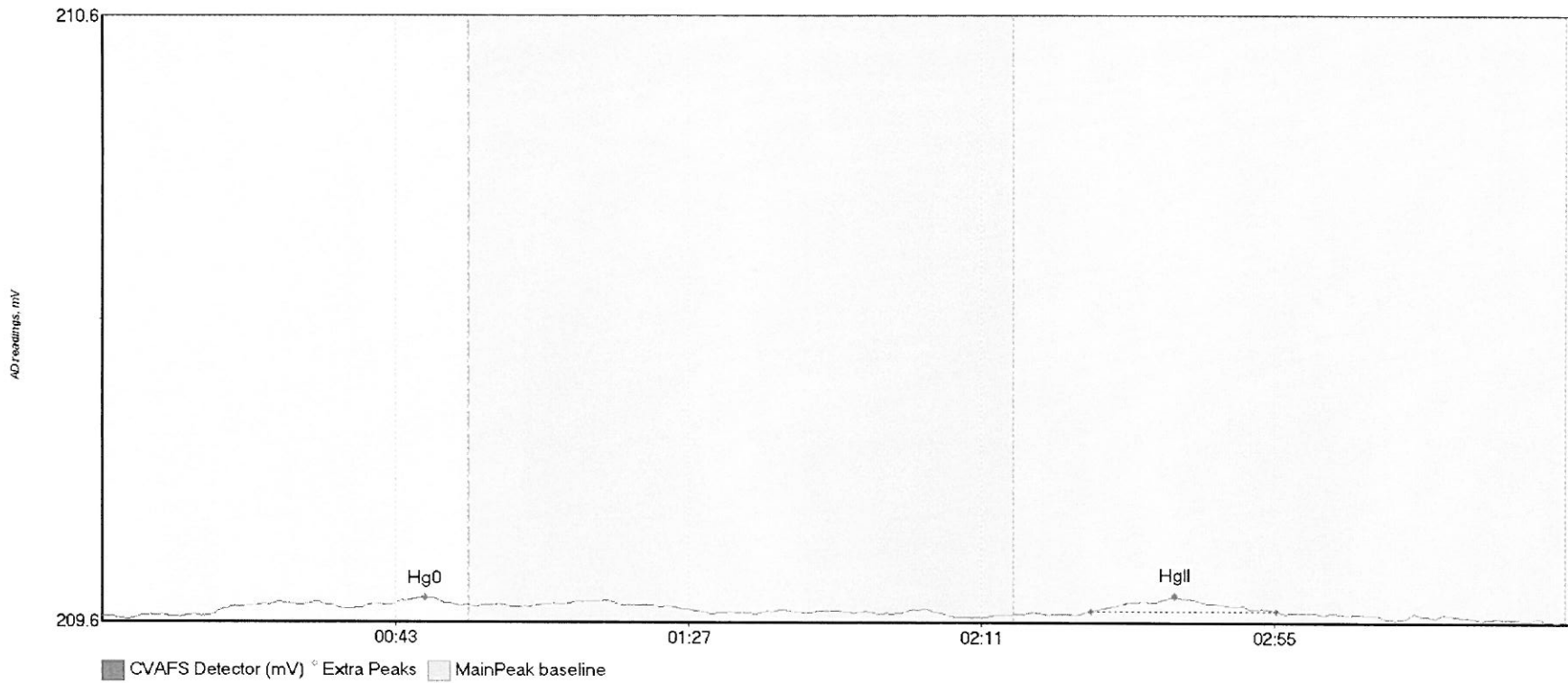
017

#81: SEQ-CCV6



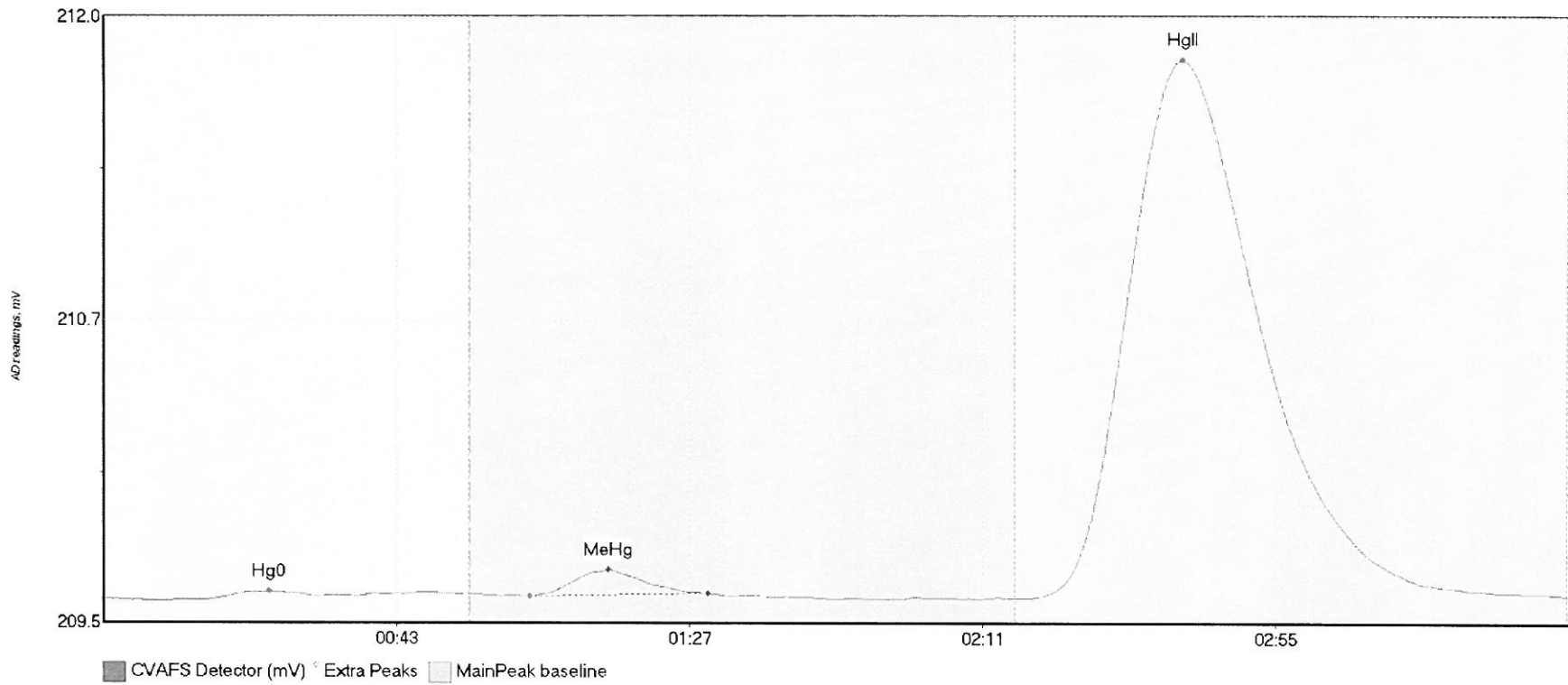
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV6 Hg0	2.110	15.2	55.0	209.58	209.61	54.8	0.029	CT	209.5762	0.00	0.00	
SEQ-CCV6 MeHg	209.433	62.1	107.5	209.60	209.61	74.8	1.513	OK	209.5762	0.00	0.00	
SEQ-CCV6 HgII	8.965	144.6	183.8	209.58	209.57	162.3	0.043	OK	209.5762	0.00	0.00	

#82: SEQ-CCB6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB6 Hg0	3.775	16.2	54.1	209.58	209.59	48.5	0.029	OK	209.5748	0.00	-0.01	
SEQ-CCB6 HgII	3.495	148.5	176.3	209.58	209.58	161.0	0.024	OK	209.5748	0.00	-0.01	017

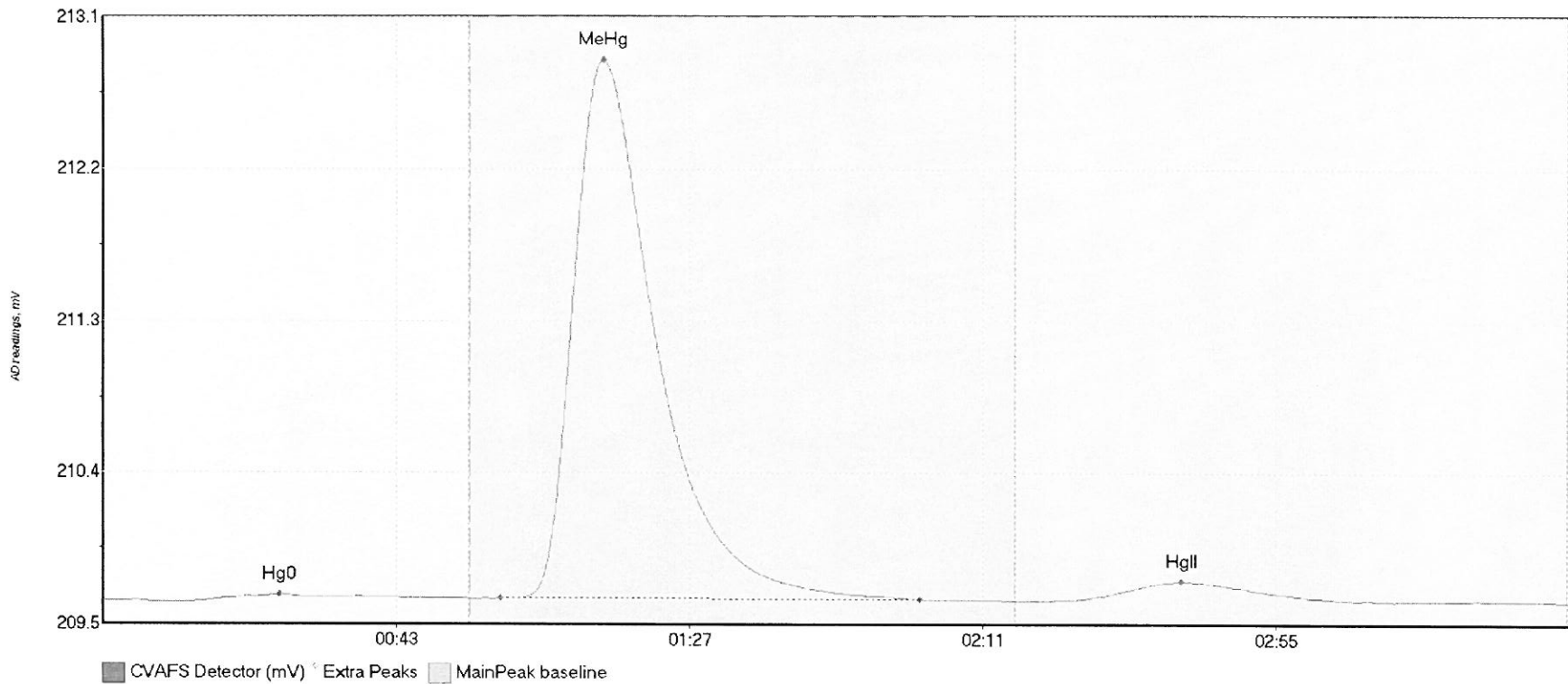
#83: 1708156-08



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708156-08 Hg0	2.543	15.4	32.6	209.58	209.60	24.9	0.033	OK	209.5869	0.00	0.02	
1708156-08 MeHg	12.383	64.0	90.8	209.60	209.61	75.9	0.107	OK	209.5869	0.00	0.02	
1708156-08 HgII	501.459	139.9	219.8	209.59	209.60	162.0	2.200	CT	209.5869	0.00	0.02	

017

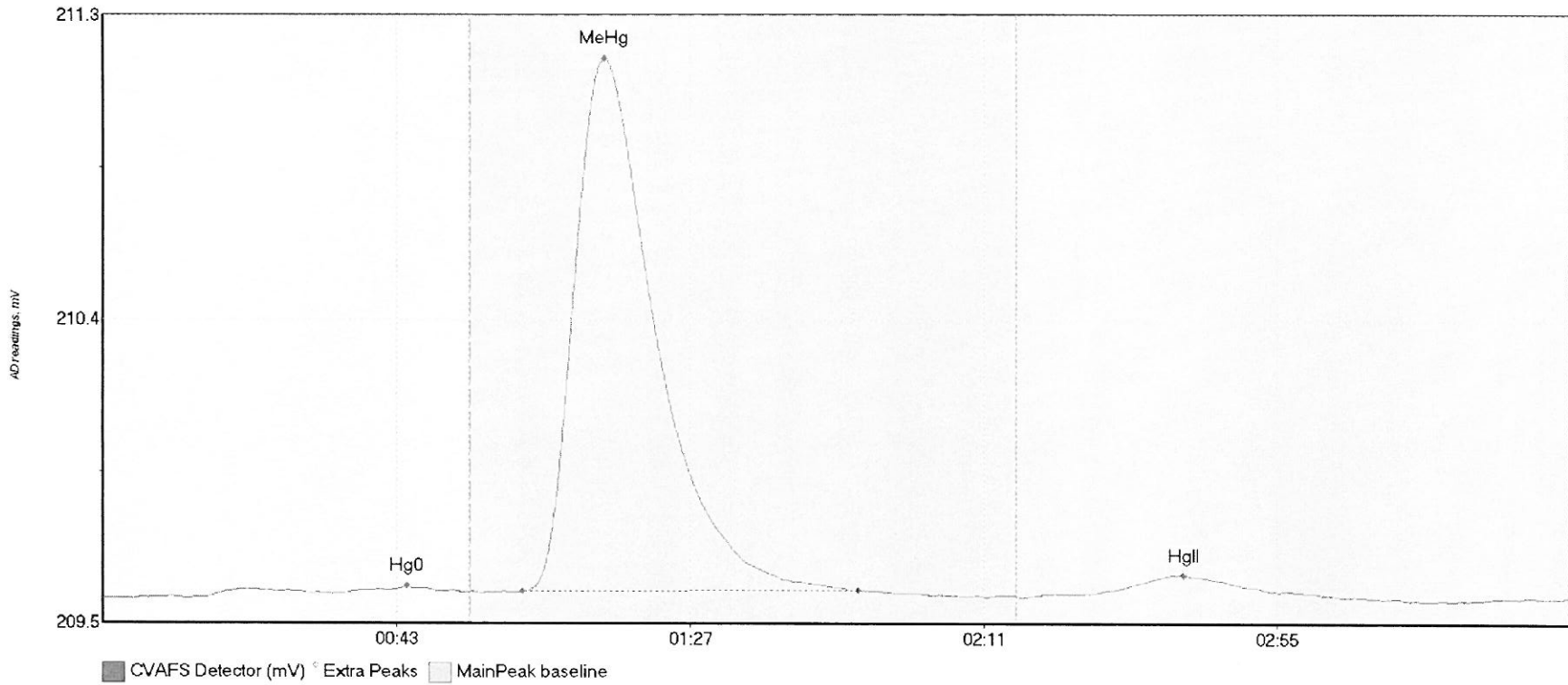
#84: 1708367-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708367-01 Hg0	6.459	14.8	55.0	209.59	209.61	26.6	0.036	CT	209.5965	0.00	-0.01	
1708367-01 MeHg	469.165	59.6	122.6	209.61	209.60	75.2	3.255	OK	209.5965	0.00	-0.01	
1708367-01 HgII	23.301	144.4	187.1	209.60	209.60	161.9	0.112	OK	209.5965	0.00	-0.01	

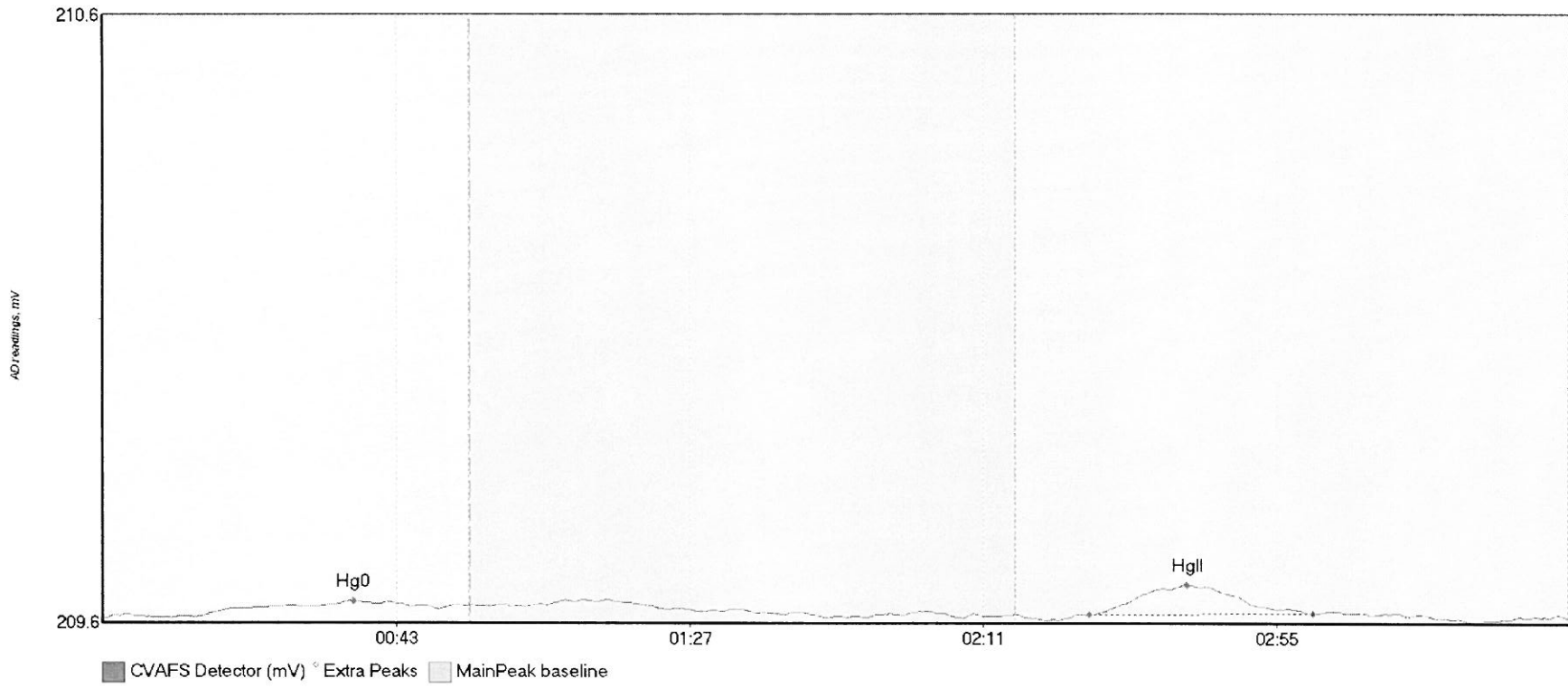
017

#85: SEQ-CCV7



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV7 Hg0	4.215	15.2	54.4	209.58	209.59	45.6	0.030	OK	209.5725	0.00	0.00	
SEQ-CCV7 MeHg	218.878	62.9	113.1	209.59	209.59	75.2	1.546	OK	209.5725	0.00	0.00	
SEQ-CCV7 HgII	12.088	139.8	186.6	209.58	209.57	162.0	0.060	OK	209.5725	0.00	0.00	

#86: SEQ-CCB7



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB7 Hg0	3.777	14.8	50.5	209.56	209.58	37.6	0.025	OK	209.5606	0.00	0.00	
SEQ-CCB7 HgII	8.097	147.9	181.4	209.57	209.57	162.6	0.050	OK	209.5606	0.00	0.00	017



**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b> DON MORAN	<b>Sequence #:</b> 7H18012, 7H18015
<b>Reviewer:</b> <i>PC 8/16/17</i>	<b>Dataset ID #:</b> MMHG27001-170817-1, MMHG27001-170817-2
<b>Date:</b> 8.18.17	<b>WO #:</b> VARIOUS
<b>Batch #(s):</b> F708434, F708416	<b>Client(s):</b> VARIOUS

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input checked="" type="checkbox"/> MHg	SOP2797 MHg Distillation	Water
<input checked="" type="checkbox"/> MHg	SOP2986 KOH/MeOH Digest	Tissue
<input type="checkbox"/> MHg	SOP5134 MeCl Extraction	Sed/Soil
<input type="checkbox"/> DMHg	SOP2816 (None Accredited method)	ALL

**Analyst Initials:**

*DM*

**Reviewer Initials:**

*PC 8/16/17*

- |   |  |  |   |
|---|--|--|---|
| 1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| 2. Check for transcription errors from Excel spreadsheet (or Prep Bench sheet)/Raw data     | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (a) Reviewer: 100% of peak heights checked  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (b) Are there peak height errors?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (c) Error on a sample: Do peak heights, responses, & initial results match corrected data?  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> N/A |
| (d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?                        | <input type="checkbox"/> YES             | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> N/A |
| (e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries). | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (f) Check and compare masses (review prep bench sheet)                                      | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (g) Check and compare initial and final volumes   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (h) Do aliquots and dilutions written on benchsheet match those in Excel?                   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (i) Is the pH>3.0 for all distilled samples?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (j) Is the sequence #, analyst, date, and instrument # on the QC page?                      | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (k) Is the analysis status correct? (analyzed/initial review/reviewed)                      | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (l) Original prep bench sheet added to data package?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)       | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| 3. High QA? WO#(s)/Client(s):   | <input type="checkbox"/> YES             | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>     |
| 4. Client specific QC? (if Yes, refer to Project Notes/LIMS)                                | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (a) Have the QC requirements been met for all WO#s?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| 5. 20 or fewer samples in batch?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (a) 3 PBs, 1 LCS/LCSD (or BS/BSD), 2 MS/MSD/MD per batch?                                   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (b) 1 CCV and 1 CCB every 10 analytical runs?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| <b>QA/QC Data Checked</b>   |  |  |   |
| 6. The calibration curve included a minimum of 5 Standards                                  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          | <input type="checkbox"/> N/A            |
| Comments:   | _____                                    |  |   |
| 7. 1st Calibration Standard % Recoveries (65-135%)  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          | <input type="checkbox"/> N/A            |
| Comments:   | _____                                    |  |   |
| 8. RSD CF (≤ 15%)   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          | <input checked="" type="checkbox"/>     |
| Comments:   | _____                                    |  |   |

**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b>	DON MORAN	<b>Sequence #:</b>	7H18012, 7H18015
<b>Reviewer:</b>	0 <i>PC 8/18/17</i>	<b>Dataset ID #:</b>	MMHG27001-170817-1, MMHG27001-170817-2
<b>Date:</b>	8/18/2017	<b>WO #:</b>	VARIOUS
<b>Batch #(s):</b>	F708434, F708416	<b>Client(s):</b>	VARIOUS

**Analyst Initials:**

*DM*

**Reviewer Initials:**

*PC 8/18/17*

9. ICV % Recoveries 67-133%	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
10. CCV % Recoveries 67-133%	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
11. Are the absolute value of the ICB and CCBs < PQL?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
13. LCS/LCSD or BS/BSD RPD (< 25%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
14. Water: Average of Preparation Blanks < 0.045 ng/L and standard deviation of 0.015 ng/L?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____			
15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done)	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
17. Is the correct 'Source' designated for MD/MS/MSD?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
18. For digested preps: was there a spike witness signature & date on the prep bench sheet?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
19. MD RPD/MT RSD (< 35%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
20. Is there one set of MS/MSD per every 10 samples?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
21. MS/MSD RPD (< 35%)	<input checked="" type="checkbox"/> PASS	<input checked="" type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: <b>F708416-MSD1, MSD2 FAILED. MSD1 HIGH RPD AND MSD2 LOW RPD</b>			
22. MS (AS) % Recoveries (65-130%)	<input checked="" type="checkbox"/> PASS	<input checked="" type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: <b>F708416-MS1, MS2 FAILED. LOW RECOVERIES</b>			
23. MSD (ASD) % Recoveries (65-130%)	<input checked="" type="checkbox"/> PASS	<input checked="" type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: <b>F708416-MSD2 FAILED. LOW RECOVERY</b>			
24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630)	<input checked="" type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/>
25. Are all samples within instrument calibration range (or at maximum aliquot size)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
Comments: _____			
26. For instrumental dilutions, is the dilution factor in excel correct?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Is the sample volume, diluents, and final volume of the dilution noted on benchsheet?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
27. Dissolved < Total metals (if applicable)	<input type="checkbox"/> PASS	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____			
28. Effluent < Influent metals (visually confirm if needed)	<input type="checkbox"/> PASS	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____			

**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b>	DON MORAN	<b>Sequence #:</b>	7H18012, 7H18015
<b>Reviewer:</b>	0 <u>A 8/18/17</u>	<b>Dataset ID #:</b>	MMHG27001-170817-1, MMHG27001-170817-2
<b>Date:</b>	8/18/2017	<b>WO #:</b>	VARIOUS
<b>Batch #(s):</b>	F708434, F708416	<b>Client(s):</b>	VAROUS

**Analyst Initials:**

DM

**Reviewer Initials:**

A 8/18/17

29. Are re-runs noted with reason?  
 Comments: \_\_\_\_\_  
 YES     NO     N/A
30. For failing QC (CCV, CCB, PB, BS/BSD, CAL):  
 Was a bubbler and trap test run before the analytical run continued?  
 Comments: \_\_\_\_\_  
 YES     NO     N/A
31. Do re-run results compare to initial analysis (< 35% RPD)?  
 Comments: \_\_\_\_\_  
 YES     NO     N/A
32. Are qualifiers consistent with the data review flowcharts?  
 Comments: \_\_\_\_\_  
 YES     NO     N/A
33. Have non-reportable samples been imported into LIMS and clicked to non-reportable?  
 Comments: \_\_\_\_\_  
 YES     NO     N/A
34. Have re-extracts been created for non-reportable samples?  
 YES     NO     N/A
35. Narrations in MMO box in LIMS?  
 Comments: \_\_\_\_\_
36. Are there any HIGH QA projects within the data?  
 If so, place dataset to the QA office.  
 YES     NO
37. Does the data set need scanning?  
 YES     NO     N/A
- Files located at: \\Cuprum\gen admin\Quality Assurance\Training Master\DOCs
38. Date of analyst IDOC/CDOC: 6/13/2017 IDOC/CDOC within last 12 months?  
 YES     NO     N/A
39. Date of analyst's SOP reading: 5/23/2016 Current SOP revision?  
 YES     NO     N/A
40. Date of LOD: 4-24-17, 5-8-17 LOD within last 3 months (within 12 months for MDN)?  
 YES     NO     N/A
41. Date of LOQ: 4-24-17, 5-8-17 LOQ within last 3 months (within 12 months for MDN)?  
 YES     NO     N/A
42. If MDN samples, date of last MDL study: \_\_\_\_\_
43. MDL study within last 12 months?  
 YES     NO     N/A
- Data can not be reported without a current IDOC/CDOC, LOD or LOQ.**
- Additional Comments: \_\_\_\_\_  
 YES     NO



**THg26003-170823-1**



Frontier Global Sciences

**Analysis Datasheet for Total Mercury**

Date of Analysis: August 23, 2017  
 Instrument #: Hg2600-3  
 LIMS Sequence #: 7H24011, 7H24012

Analyst: DM2  
 Units ng/L

**Calibration Statistics:**

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.50 ng/L	56.82 units	113.64	56.56 units	113.12	102.7 %Rec
SEQ-CAL2	1	1.00 ng/L	110.85 units	110.85	110.59 units	110.59	100.4 %Rec
SEQ-CAL3	1	5.00 ng/L	553.90 units	110.78	553.64 units	110.73	100.5 %Rec
SEQ-CAL4	1	20.00 ng/L	2192.80 units	109.64	2192.54 units	109.63	99.5 %Rec
SEQ-CAL5	1	40.00 ng/L	4277.52 units	106.94	4277.26 units	106.93	97.0 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						
<b>Corr. Mean RF</b>		<b>Corr. St Dev RF</b>	<b>Corr. RSD CF</b>	<b>Uncorr. Mean RF</b>			
110.20		+/- 2.24	2.0% RSD	110.37			

**Blanks:**

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	3	0.26 units	±0.45	0.00 ng/L	±0.00

**Preparation Blanks**

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	2	0.614 ng/L	±0.144
BLK	2	2	0.721 ng/L	±0.229
BLK	3	3	0.821 ng/L	±0.483
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	
BLK	6	0	0.000 ng/L	

QUALITY ASSURANCE  
 PEER-REVIEWED

INITIALS: R 8/24/17

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber							Correction?	RESP				
Hg2600-3	DM2	CAL	SEQ-IBL1	1	8/23/2017 8:32:48	73808-1.RAW	8:32:48 AM	0.00			-0.3	-0.002	-0.002	ng/L	
Hg2600-3	DM2	CAL	SEQ-IBL2	1	8/23/2017 8:36:56	73809-1.RAW	8:36:56 AM	0.78			0.5	0.005	0.005	ng/L	
Hg2600-3	DM2	CAL	SEQ-IBL3	1	8/23/2017 8:41:05	73810-1.RAW	8:41:05 AM	0.00			-0.3	-0.002	-0.002	ng/L	
Hg2600-3	DM2	CAL	SEQ-CAL1	1	8/23/2017 8:45:13	73811-1.RAW	8:45:13 AM	56.82			56.6	0.513	0.513	ng/L	
Hg2600-3	DM2	CAL	SEQ-CAL2	1	8/23/2017 8:49:21	73812-1.RAW	8:49:21 AM	110.85			110.6	1.004	1.004	ng/L	
Hg2600-3	DM2	CAL	SEQ-CAL3	1	8/23/2017 8:53:30	73813-1.RAW	8:53:30 AM	553.90			553.6	5.024	5.024	ng/L	
Hg2600-3	DM2	CAL	SEQ-CAL4	1	8/23/2017 8:57:38	73814-1.RAW	8:57:38 AM	2192.80			2192.5	19.896	19.896	ng/L	
Hg2600-3	DM2	CAL	SEQ-CAL5	1	8/23/2017 9:01:47	73815-1.RAW	9:01:47 AM	4277.52			4277.3	38.813	38.813	ng/L	
Hg2600-3	DM2	CAL	SEQ-ICV1	1	8/23/2017 9:05:55	73816-1.RAW	9:05:55 AM	546.39			546.1	4.956	4.956	ng/L	
Hg2600-3	DM2	BLK	F708501-BLK1	10	8/23/2017 9:10:04	73817-1.RAW	9:10:04 AM	8.15	1		7.9	0.072	0.716	ng/L	
Hg2600-3	DM2	BLK	F708501-BLK2	10	8/23/2017 9:14:12	73818-1.RAW	9:14:12 AM	5.90	1		5.6	0.051	0.512	ng/L	
Hg2600-3	DM2	SAM	F708501-BS1	100	8/23/2017 9:18:20	73819-1.RAW	9:18:20 AM	246.77	1		246.5	2.231	223.075	ng/L	
Hg2600-3	DM2	SAM	F708501-BS1	100	8/23/2017 9:22:29	73820-1.RAW	9:22:29 AM	223.83	1		223.6	2.023	202.265	ng/L	
Hg2600-3	DM2	SAM	1708086-04	50	8/23/2017 9:26:37	73821-1.RAW	9:26:37 AM	1189.70	1		1189.4	10.781	539.054	ng/L	
Hg2600-3	DM2	SAM	1708086-05	50	8/23/2017 9:30:46	73822-1.RAW	9:30:46 AM	1241.57	1		1241.3	11.252	562.589	ng/L	
Hg2600-3	DM2	SAM	1708086-06	50	8/23/2017 9:34:54	73823-1.RAW	9:34:54 AM	1238.50	1		1238.2	11.224	561.196	ng/L	
Hg2600-3	DM2	SAM	1708151-01	50	8/23/2017 9:39:03	73824-1.RAW	9:39:03 AM	984.67	1		984.4	8.921	446.031	ng/L	
Hg2600-3	DM2	SAM	1708151-02	50	8/23/2017 9:43:11	73825-1.RAW	9:43:11 AM	1713.56	1		1713.3	15.535	776.738	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV1	1	8/23/2017 9:47:19	73826-1.RAW	9:47:19 AM	1649.38	1		1649.1	14.952	747.619	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB1	1	8/23/2017 9:51:28	73827-1.RAW	9:51:28 AM	554.53			554.3	5.030	5.030	ng/L	
Hg2600-3	DM2	SAM	1708151-04	50	8/23/2017 9:55:36	73828-1.RAW	9:55:36 AM	4.55			4.3	0.039	0.039	ng/L	
Hg2600-3	DM2	SAM	1708151-05	50	8/23/2017 9:59:45	73829-1.RAW	9:59:45 AM	2201.24	1		2201.0	19.960	998.011	ng/L	
Hg2600-3	DM2	SAM	1708151-06	50	8/23/2017 10:03:53	73830-1.RAW	10:03:53 AM	2067.21	1		2066.9	18.744	937.195	ng/L	
Hg2600-3	DM2	SAM	1708151-07	50	8/23/2017 10:08:01	73831-1.RAW	10:08:01 AM	2065.62	1		2065.4	18.730	936.475	ng/L	
Hg2600-3	DM2	SAM	1708151-08	50	8/23/2017 10:12:10	73832-1.RAW	10:12:10 AM	319.47	1		319.2	2.884	144.219	ng/L	
Hg2600-3	DM2	SAM	1708151-09	50	8/23/2017 10:16:18	73833-1.RAW	10:16:18 AM	1618.69	1		1618.4	14.674	733.696	ng/L	
Hg2600-3	DM2	SAM	1708151-10	50	8/23/2017 10:20:27	73834-1.RAW	10:20:27 AM	1198.75	1		1198.5	10.863	543.161	ng/L	
Hg2600-3	DM2	SAM	1708151-11	50	8/23/2017 10:24:35	73835-1.RAW	10:24:35 AM	1609.36	1		1609.1	14.589	729.462	ng/L	
Hg2600-3	DM2	SAM	1708151-12	50	8/23/2017 10:28:44	73836-1.RAW	10:28:44 AM	1261.64	1		1261.4	11.434	571.698	ng/L	
Hg2600-3	DM2	SAM	1708151-13	50	8/23/2017 10:32:52	73837-1.RAW	10:32:52 AM	1784.23	1		1784.0	16.176	808.803	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV2	1	8/23/2017 10:37:00	73838-1.RAW	10:37:00 AM	1134.13	1		1133.9	10.277	513.844	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB2	1	8/23/2017 10:41:09	73839-1.RAW	10:41:09 AM	546.48			546.2	4.957	4.957	ng/L	
Hg2600-3	DM2	SAM	1708151-14	50	8/23/2017 10:45:17	73840-1.RAW	10:45:17 AM	6.11			5.9	0.053	0.053	ng/L	
Hg2600-3	DM2	SAM	1708151-15	50	8/23/2017 10:49:26	73841-1.RAW	10:49:26 AM	2967.06	1		2966.8	26.910	1345.477	ng/L	
Hg2600-3	DM2	SAM	1708151-16	50	8/23/2017 10:53:34	73842-1.RAW	10:53:34 AM	135.10	1		134.8	1.211	60.565	ng/L	
Hg2600-3	DM2	SAM	1708151-17	50	8/23/2017 10:57:42	73843-1.RAW	10:57:42 AM	169.34	1		169.1	1.522	76.101	ng/L	
Hg2600-3	DM2	SAM	1708151-18	50	8/23/2017 11:01:51	73844-1.RAW	11:01:51 AM	292.46	1		292.2	2.639	131.961	ng/L	
Hg2600-3	DM2	SAM	F708501-MS1	400	8/23/2017 11:05:59	73845-1.RAW	11:05:59 AM	744.22	1		744.0	6.749	2699.770	ng/L	
Hg2600-3	DM2	SAM	F708501-MSD1	400	8/23/2017 11:10:08	73846-1.RAW	11:10:08 AM	765.52	1		765.3	6.943	2777.071	ng/L	
Hg2600-3	DM2	SAM	F708501-MSD2	400	8/23/2017 11:14:16	73847-1.RAW	11:14:16 AM	778.13	1		777.9	7.057	2822.836	ng/L	
Hg2600-3	DM2	BLK	F708500-BLK1	10	8/23/2017 11:18:25	73848-1.RAW	11:18:25 AM	751.96	1		751.7	6.820	2727.852	ng/L	
Hg2600-3	DM2	BLK	F708500-BLK2	10	8/23/2017 11:22:33	73849-1.RAW	11:22:33 AM	9.99	2		9.7	0.088	0.883	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV3	1	8/23/2017 11:26:41	73850-1.RAW	11:26:41 AM	6.42	2		6.2	0.056	0.559	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB3	1	8/23/2017 11:30:50	73851-1.RAW	11:30:50 AM	541.60			541.3	4.912	4.912	ng/L	
Hg2600-3	DM2	SAM	F708500-BS1	100	8/23/2017 11:34:58	73852-1.RAW	11:34:58 AM	4.44			4.2	0.038	0.038	ng/L	
Hg2600-3	DM2	SAM	F708500-BS1	100	8/23/2017 11:39:07	73853-1.RAW	11:39:07 AM	240.29	2		240.0	2.171	217.095	ng/L	
Hg2600-3	DM2	SAM	F708500-BS1	100	8/23/2017 11:43:15	73854-1.RAW	11:43:15 AM	233.25	2		233.0	2.107	210.706	ng/L	
Hg2600-3	DM2	SAM	1707810-13	50	8/23/2017 11:47:23	73855-1.RAW	11:47:23 AM	116.63	2		116.4	1.042	52.079	ng/L	
Hg2600-3	DM2	SAM	1707810-14	50	8/23/2017 11:51:32	73856-1.RAW	11:51:32 AM	152.21	2		151.9	1.364	68.220	ng/L	
Hg2600-3	DM2	SAM	1707810-15	50	8/23/2017 11:55:40	73857-1.RAW	11:55:40 AM	450.12	2		449.9	4.068	203.390	ng/L	
Hg2600-3	DM2	SAM	1707810-16	50	8/23/2017 11:59:49	73858-1.RAW	11:59:49 AM	1986.30	2		1986.0	18.008	900.378	ng/L	
Hg2600-3	DM2	SAM	1707810-17	50	8/23/2017 12:03:57	73859-1.RAW	12:03:57 PM	325.89	2		325.6	2.940	147.021	ng/L	
Hg2600-3	DM2	SAM	1707810-18	50	8/23/2017 12:08:06	73860-1.RAW	12:08:06 PM	2072.15	2		2071.9	18.787	939.331	ng/L	
Hg2600-3	DM2	SAM	1707810-19	50	8/23/2017 12:12:14	73861-1.RAW	12:12:14 PM	2142.71	2		2142.4	19.427	971.343	ng/L	
Hg2600-3	DM2	SAM	1707810-20	50	8/23/2017 12:16:22	73862-1.RAW	12:16:22 PM	2586.86	2		2586.6	23.457	1172.863	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV4	1	8/23/2017 12:20:31	73863-1.RAW	12:20:31 PM	557.89			557.6	5.060	5.060	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB4	1	8/23/2017 12:24:39	73864-1.RAW	12:24:39 PM	8.11			7.9	0.071	0.071	ng/L	

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber												
Hg2600-3	DM2	SAM	1707810-21	50	8/23/2017 12:28:48	73865-1.RAW	12:28:48 PM	2032.21	2		2032.0	18.424	921.212	ng/L	
Hg2600-3	DM2	SAM	1707810-22	50	8/23/2017 12:32:56	73866-1.RAW	12:32:56 PM	2725.93	2		2725.7	24.719	1235.960	ng/L	
Hg2600-3	DM2	SAM	1707810-23	50	8/23/2017 12:37:05	73867-1.RAW	12:37:05 PM	4878.36	2		4878.1	44.251	2212.555	ng/L	
Hg2600-3	DM2	SAM	1707810-24	50	8/23/2017 12:41:13	73868-1.RAW	12:41:13 PM	1820.09	2		1819.8	16.499	824.965	ng/L	
Hg2600-3	DM2	SAM	1707810-25	50	8/23/2017 12:45:21	73869-1.RAW	12:45:21 PM	4278.50	2		4278.2	38.808	1940.390	ng/L	
Hg2600-3	DM2	SAM	1707810-26	50	8/23/2017 12:49:30	73870-1.RAW	12:49:30 PM	2759.79	2		2759.5	25.026	1251.323	ng/L	
Hg2600-3	DM2	SAM	1707810-27	50	8/23/2017 12:53:38	73871-1.RAW	12:53:38 PM	6300.48	2		6300.2	57.156	2857.798	ng/L	
Hg2600-3	DM2	SAM	1707810-28	50	8/23/2017 12:57:47	73872-1.RAW	12:57:47 PM	122.77	2		122.5	1.097	54.862	ng/L	
Hg2600-3	DM2	SAM	1707810-29	50	8/23/2017 13:01:55	73873-1.RAW	1:01:55 PM	118.06	2		117.8	1.055	52.728	ng/L	
Hg2600-3	DM2	SAM	1708086-01	50	8/23/2017 13:06:03	73874-1.RAW	1:06:03 PM	1710.67	2		1710.4	15.506	775.319	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV5	1	8/23/2017 13:10:12	73875-1.RAW	1:10:12 PM	558.3504629			558.1	5.064	5.064	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB5	1	8/23/2017 13:14:20	73876-1.RAW	1:14:20 PM	8.31			8.1	0.073	0.073	ng/L	
Hg2600-3	DM2	SAM	1708086-02	50	8/23/2017 13:18:29	73877-1.RAW	1:18:29 PM	1474.35	2		1474.1	13.362	668.098	ng/L	
Hg2600-3	DM2	SAM	1708086-03	50	8/23/2017 13:22:37	73878-1.RAW	1:22:37 PM	1719.67	2		1719.4	15.588	779.406	ng/L	
Hg2600-3	DM2	SAM	1707810-23RE1	100	8/23/2017 13:26:45	73879-1.RAW	1:26:45 PM	2458.93	2		2458.7	22.304	2230.360	ng/L	
Hg2600-3	DM2	SAM	1707810-24RE1	50	8/23/2017 13:30:54	73880-1.RAW	1:30:54 PM	1839.53	2		1839.3	16.676	833.788	ng/L	
Hg2600-3	DM2	SAM	1707810-27RE1	100	8/23/2017 13:35:02	73881-1.RAW	1:35:02 PM	3070.59	2		3070.3	27.854	2785.403	ng/L	
Hg2600-3	DM2	SAM	1707810-28RE1	50	8/23/2017 13:39:11	73882-1.RAW	1:39:11 PM	107.31	2		107.1	0.957	47.850	ng/L	
Hg2600-3	DM2	SAM	F708500-MS1	400	8/23/2017 13:43:19	73883-1.RAW	1:43:19 PM	860.63	2		860.4	7.806	3122.200	ng/L	
Hg2600-3	DM2	SAM	F708500-MSD1	400	8/23/2017 13:47:28	73884-1.RAW	1:47:28 PM	918.79	2		918.5	8.333	3333.298	ng/L	
Hg2600-3	DM2	SAM	F708500-MS2	400	8/23/2017 13:51:36	73885-1.RAW	1:51:36 PM	807.39	2		807.1	7.322	2928.965	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV6	1	8/23/2017 13:55:45	73886-1.RAW	1:55:45 PM	821.53	2		821.3	7.451	2980.273	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB6	1	8/23/2017 13:59:54	73887-1.RAW	1:59:54 PM	552.13			551.9	5.008	5.008	ng/L	
Hg2600-3	DM2	BLK	F708459-BLK1	20	8/23/2017 14:04:02	73888-1.RAW	2:04:02 PM	5.47			5.2	0.047	0.047	ng/L	
Hg2600-3	DM2	BLK	F708459-BLK2	20	8/23/2017 14:08:11	73889-1.RAW	2:08:11 PM	5.08	3		4.8	0.044	0.875	ng/L	
Hg2600-3	DM2	BLK	F708459-BLK3	20	8/23/2017 14:12:19	73890-1.RAW	2:12:19 PM	7.29	3		7.0	0.064	1.276	ng/L	
Hg2600-3	DM2	SAM	*F708459-BLK4	20	8/23/2017 14:16:28	73891-1.RAW	2:16:28 PM	1.99	3		1.7	0.016	0.313	ng/L	
Hg2600-3	DM2	SAM	*F708459-BLK5	20	8/23/2017 14:21:11	73892-2.RAW	2:21:11 PM	3.90	3		3.6	-0.008	-0.161	ng/L	
Hg2600-3	DM2	SAM	F708459-BS1	20	8/23/2017 14:25:20	73893-1.RAW	2:25:20 PM	4.29	3		4.0	-0.004	-0.089	ng/L	
Hg2600-3	DM2	SAM	F708459-BSD1	20	8/23/2017 14:29:28	73894-1.RAW	2:29:28 PM	563.26	3		563.0	5.068	101.355	ng/L	
Hg2600-3	DM2	SAM	F708459-BS2	400	8/23/2017 14:33:37	73895-1.RAW	2:33:37 PM	518.84	3		518.6	4.665	93.295	ng/L	
Hg2600-3	DM2	SAM	1708118-03RE2	100	8/23/2017 14:37:45	73896-1.RAW	2:37:45 PM	585.35	3		585.1	5.307	2122.901	ng/L	
Hg2600-3	DM2	SAM	1708241-01	100	8/23/2017 14:41:54	73897-1.RAW	2:41:54 PM	474.58	3		474.3	4.296	429.591	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV7	1	8/23/2017 14:46:02	73898-1.RAW	2:46:02 PM	219.22	3		219.0	1.979	197.868	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB7	1	8/23/2017 14:50:11	73899-1.RAW	2:50:11 PM	547.26			547.0	4.964	4.964	ng/L	
Hg2600-3	DM2	SAM	1708241-02	100	8/23/2017 14:54:19	73900-1.RAW	2:54:19 PM	4.86			4.6	0.042	0.042	ng/L	
Hg2600-3	DM2	SAM	1708241-03	100	8/23/2017 14:58:28	73901-1.RAW	2:58:28 PM	370.22	3		370.0	3.349	334.894	ng/L	
Hg2600-3	DM2	SAM	1708241-04	100	8/23/2017 15:02:36	73902-1.RAW	3:02:36 PM	439.34	3		439.1	3.976	397.612	ng/L	
Hg2600-3	DM2	SAM	1708241-05	100	8/23/2017 15:06:44	73903-1.RAW	3:06:44 PM	555.33	3		555.1	5.029	502.872	ng/L	
Hg2600-3	DM2	SAM	1708241-06	100	8/23/2017 15:10:53	73904-1.RAW	3:10:53 PM	570.35	3		570.1	5.165	516.498	ng/L	
Hg2600-3	DM2	SAM	1708241-07	100	8/23/2017 15:15:01	73905-1.RAW	3:15:01 PM	206.47	3		206.2	1.863	186.301	ng/L	
Hg2600-3	DM2	SAM	1708241-08	100	8/23/2017 15:19:10	73906-1.RAW	3:19:10 PM	193.55	3		193.3	1.746	174.579	ng/L	
Hg2600-3	DM2	SAM	1708241-09	100	8/23/2017 15:23:18	73907-1.RAW	3:23:18 PM	143.31	3		143.1	1.290	128.991	ng/L	
Hg2600-3	DM2	SAM	1708241-10	100	8/23/2017 15:27:27	73908-1.RAW	3:27:27 PM	189.63	3		189.4	1.710	171.019	ng/L	
Hg2600-3	DM2	SAM	1708241-11	100	8/23/2017 15:31:35	73909-1.RAW	3:31:35 PM	154.31	3		154.1	1.390	138.971	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV8	1	8/23/2017 15:35:44	73910-1.RAW	3:35:44 PM	252.71	3		252.4	2.283	228.259	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB8	1	8/23/2017 15:39:52	73911-1.RAW	3:39:52 PM	542.66			542.4	4.922	4.922	ng/L	
Hg2600-3	DM2	SAM	1708241-12	100	8/23/2017 15:44:00	73912-1.RAW	3:44:00 PM	8.32			8.1	0.073	0.073	ng/L	
Hg2600-3	DM2	SAM	1708241-13	100	8/23/2017 15:48:09	73913-1.RAW	3:48:09 PM	310.16	3		309.9	2.804	280.392	ng/L	
Hg2600-3	DM2	SAM	1708241-14	100	8/23/2017 15:52:17	73914-1.RAW	3:52:17 PM	204.16	3		203.9	1.842	184.205	ng/L	
Hg2600-3	DM2	SAM	1708241-15	100	8/23/2017 15:56:26	73915-1.RAW	3:56:26 PM	198.09	3		197.8	1.787	178.696	ng/L	
Hg2600-3	DM2	SAM	F708459-DUP1	100	8/23/2017 16:00:34	73916-1.RAW	4:00:34 PM	276.42	3		276.2	2.498	249.773	ng/L	
Hg2600-3	DM2	SAM	F708459-MS1	400	8/23/2017 16:04:43	73917-1.RAW	4:04:43 PM	427.58	3		427.3	3.869	386.946	ng/L	
Hg2600-3	DM2	SAM	F708459-MSD1	400	8/23/2017 16:08:51	73918-1.RAW	4:08:51 PM	1338.07	3		1337.8	12.138	4855.093	ng/L	
Hg2600-3	DM2	SAM	F708459-MS2	400	8/23/2017 16:12:59	73919-1.RAW	4:12:59 PM	1307.92	3		1307.7	11.864	4745.625	ng/L	
Hg2600-3	DM2	SAM	F708459-MSD2	400	8/23/2017 16:17:08	73920-1.RAW	4:17:08 PM	1270.83	3		1270.6	11.528	4611.032	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV9	1	8/23/2017 16:21:16	73921-1.RAW	4:21:16 PM	1241.34	3		1241.1	11.260	4503.958	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB9	1	8/23/2017 16:25:25	73922-1.RAW	4:25:25 PM	571.65			571.4	5.185	5.185	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB9	1	8/23/2017 16:29:33	73923-1.RAW	4:29:33 PM	5.05			4.8	0.043	0.043	ng/L	

TotalMercury EPA1631  
 Operatr DM  
 BlankS: 0.2598  
 Calib Eqn: Conc = (Area-0.259  
 Run Date: 8/23/2017  
 Blank SD: 0.449999382  
 Worksh THg2600  
 CalibFa 110.2  
 Status: QC Warnings:3/QC E  
 Run Time: 14:17:02  
 Blank RSD%: 173.2050808  
 Method #### R: 0.9999  
 R<sup>2</sup>: 0.9999  
 CF SD: 2.236003475  
 CF RSD%: 2.02902612  
 Descrip THg26003-170823-1

Sample/ID	Location Rinse	Dilute	Blank	Conc:(ppt)	MB%	FinalConc	Rec%	QA	RawData	RunEnd	Peak (Raw)	Control (etf)	Flags	RunCount
Clean			0.00	1.59					73803-1.RAW	8:13:23	175.12	Clean	OK	1
clean									73804-1.RAW	8:16:14	0.00	Clean	NP	1
ws			0.26	0.02					73805-1.RAW	8:20:23	2.15	Sample	OK	1
ws									73806-1.RAW	8:24:31	0.00	Sample	NP	1
ws									73807-1.RAW	8:28:39	0.00	Sample	NP	1
SEQ-IBL1	A1	1							73808-1.RAW	8:32:48	0.00	Sample	NP	1
SEQ-IBL2	A2	1	0.00	0.01					73809-1.RAW	8:36:56	0.78	Sample	OK	1
SEQ-IBL3	A3	1							73810-1.RAW	8:41:05	0.00	Sample	NP	1
SEQ-CAL1	A4	1	0.26	0.51		102.65			73811-1.RAW	8:45:13	56.82	Sample	OK	1
SEQ-CAL2	A5	1	0.26	1.00		100.35			73812-1.RAW	8:49:21	110.85	Sample	OK	1
SEQ-CAL3	A6	1	0.26	5.02		100.48			73813-1.RAW	8:53:30	553.90	Sample	OK	1
SEQ-CAL4	A7	1	0.26	19.90		99.48			73814-1.RAW	8:57:38	2192.80	Sample	OK	1
SEQ-CAL5	A8	1	0.26	38.81		97.03			73815-1.RAW	9:01:47	4277.52	Sample	OK	1
SEQ-ICV1	A9	1	0.26	4.96		99.12			73816-1.RAW	9:05:55	546.39	Sample	OK	1
F708501-BLK1	A10	10	0.26	0.72					73817-1.RAW	9:10:04	8.15	Sample	OK	1
F708501-BLK2	A11	10	0.26	0.51					73818-1.RAW	9:14:12	5.90	Sample	OK	1
F708501-BS1	A12	100	0.26	223.69					73819-1.RAW	9:18:20	246.77	Sample	OK	1
F708501-BSD1	B1	100	0.26	202.88					73820-1.RAW	9:22:29	223.83	Sample	OK	1
1708086-04	B2	50	0.26	539.67					73821-1.RAW	9:26:37	1189.70	Sample	OK	1
1708086-05	B3	50	0.26	563.20					73822-1.RAW	9:30:46	1241.57	Sample	OK	1
1708086-06	B4	50	0.26	561.81					73823-1.RAW	9:34:54	1238.50	Sample	OK	1
1708151-01	B5	50	0.26	446.65					73824-1.RAW	9:39:03	984.67	Sample	OK	1
1708151-02	B6	50	0.26	777.35					73825-1.RAW	9:43:11	1713.56	Sample	OK	1
1708151-03	B7	50	0.26	748.23					73826-1.RAW	9:47:19	1649.38	Sample	OK	1
SEQ-CCV1	B8	1	0.26	5.03		100.59			73827-1.RAW	9:51:28	554.53	Sample	OK	1
SEQ-CCB1	B9	1	0.26	0.04		0.00			73828-1.RAW	9:55:36	4.55	Sample	OK	1
1708151-04	B10	50	0.26	998.62					73829-1.RAW	9:59:45	2201.24	Sample	OK	1
1708151-05	B11	50	0.26	937.81					73830-1.RAW	10:03:53	2067.21	Sample	OK	1
1708151-06	B12	50	0.26	937.09					73831-1.RAW	10:08:01	2065.62	Sample	OK	1
1708151-07	C1	50	0.26	144.83					73832-1.RAW	10:12:10	319.47	Sample	OK	1
1708151-08	C2	50	0.26	734.31					73833-1.RAW	10:16:18	1618.69	Sample	OK	1
1708151-09	C3	50	0.26	543.77					73834-1.RAW	10:20:27	1198.75	Sample	OK	1
1708151-10	C4	50	0.26	730.08					73835-1.RAW	10:24:35	1609.36	Sample	OK	1
1708151-11	C5	50	0.26	572.31					73836-1.RAW	10:28:44	1261.64	Sample	OK	1
1708151-12	C6	50	0.26	809.42					73837-1.RAW	10:32:52	1784.23	Sample	OK	1
1708151-13	C7	50	0.26	514.46					73838-1.RAW	10:37:00	1134.13	Sample	OK	1
SEQ-CCV2	C8	1	0.26	4.96		99.13			73839-1.RAW	10:41:09	546.48	Sample	OK	1
SEQ-CCB2	C9	1	0.26	0.05		0.00			73840-1.RAW	10:45:17	6.11	Sample	OK	1
1708151-14	C10	50	0.26	1346.09					73841-1.RAW	10:49:26	2967.06	Sample	OK	1
1708151-15	C11	50	0.26	61.18					73842-1.RAW	10:53:34	135.10	Sample	OK	1
1708151-16	C12	50	0.26	76.71					73843-1.RAW	10:57:42	169.34	Sample	OK	1
1708151-17	D1	50	0.26	132.57					73844-1.RAW	11:01:51	292.46	Sample	OK	1
F708501-MS1	D2	400	0.26	2700.38		2021.63			73845-1.RAW	11:05:59	744.22	Sample	OK	1

F708501-MSD1	D3	400	0.26	2777.69		73846-1.RAW	11:10:08	765.52	Sample	OK	1
F708501-MS2	D4	400	0.26	2823.45	101.57	73847-1.RAW	11:14:16	778.13	Sample	OK	1
F708501-MSD2	D5	400	0.26	2728.47		73848-1.RAW	11:18:25	751.96	Sample	OK	1
F708500-BLK1	D6	10	0.26	0.88		73849-1.RAW	11:22:33	9.99	Sample	OK	1
F708500-BLK2	D7	10	0.26	0.56		73850-1.RAW	11:26:41	6.42	Sample	OK	1
SEQ-CCV3	D8	1	0.26	4.91	98.25	73851-1.RAW	11:30:50	541.60	Sample	OK	1
SEQ-CCB3	D9	1	0.26	0.04	0.00	73852-1.RAW	11:34:58	4.44	Sample	OK	1
F708500-BS1	D10	100	0.26	217.82		73853-1.RAW	11:39:07	240.29	Sample	OK	1
F708500-BSD1	D11	100	0.26	211.43		73854-1.RAW	11:43:15	233.25	Sample	OK	1
1707810-13	D12	50	0.26	52.80		73855-1.RAW	11:47:23	116.63	Sample	OK	1
1707810-14	A1	50	0.26	68.94		73856-1.RAW	11:51:32	152.21	Sample	OK	1
1707810-15	A2	50	0.26	204.11		73857-1.RAW	11:55:40	450.12	Sample	OK	1
1707810-16	A3	50	0.26	901.10		73858-1.RAW	11:59:49	1986.30	Sample	OK	1
1707810-17	A4	50	0.26	147.74		73859-1.RAW	12:03:57	325.89	Sample	OK	1
1707810-18	A5	50	0.26	940.05		73860-1.RAW	12:08:06	2072.15	Sample	OK	1
1707810-19	A6	50	0.26	972.06		73861-1.RAW	12:12:14	2142.71	Sample	OK	1
1707810-20	A7	50	0.26	1173.58		73862-1.RAW	12:16:22	2586.86	Sample	OK	1
SEQ-CCV4	A8	1	0.26	5.06	101.20	73863-1.RAW	12:20:31	557.89	Sample	OK	1
SEQ-CCB4	A9	1	0.26	0.07	0.00	73864-1.RAW	12:24:39	8.11	Sample	OK	1
1707810-21	A10	50	0.26	921.93		73865-1.RAW	12:28:48	2032.21	Sample	OK	1
1707810-22	A11	50	0.26	1236.68		73866-1.RAW	12:32:56	2725.93	Sample	OK	1
1707810-23	A12	50	0.26	2213.28		73867-1.RAW	12:37:05	4878.36	Sample	OK	1
1707810-24	B1	50	0.26	825.69		73868-1.RAW	12:41:13	1820.09	Sample	OK	1
1707810-25	B2	50	0.26	1941.11		73869-1.RAW	12:45:21	4278.50	Sample	OK	1
1707810-26	B3	50	0.26	1252.04		73870-1.RAW	12:49:30	2759.79	Sample	OK	1
1707810-27	B4	50	0.26	2858.52		73871-1.RAW	12:53:38	6300.48	Sample	FB	1
1707810-28	B5	50	0.26	55.58		73872-1.RAW	12:57:47	122.77	Sample	OK	1
1707810-29	B6	50	0.26	53.45		73873-1.RAW	13:01:55	118.06	Sample	OK	1
1708086-01	B7	50	0.26	776.04		73874-1.RAW	13:06:03	1710.67	Sample	OK	1
SEQ-CCV5	B8	1	0.26	5.06	101.29	73875-1.RAW	13:10:12	558.35	Sample	OK	1
SEQ-CCB5	B9	1	0.26	0.07	0.00	73876-1.RAW	13:14:20	8.31	Sample	OK	1
1708086-02	B10	50	0.26	668.82		73877-1.RAW	13:18:29	1474.35	Sample	OK	1
1708086-03	B11	50	0.26	780.13		73878-1.RAW	13:22:37	1719.67	Sample	OK	1
1707810-23RE1	B12	100	0.26	2231.08		73879-1.RAW	13:26:45	2458.93	Sample	OK	1
1707810-24RE1	C1	50	0.26	834.51		73880-1.RAW	13:30:54	1839.53	Sample	OK	1
1707810-27RE1	C2	100	0.26	2786.12		73881-1.RAW	13:35:02	3070.59	Sample	OK	1
1707810-28RE1	C3	50	0.26	48.57		73882-1.RAW	13:39:11	107.31	Sample	OK	1
F708500-MS1	C4	400	0.26	3122.92	6299.87	73883-1.RAW	13:43:19	860.63	Sample	OK	1
F708500-MSD1	C5	400	0.26	3334.02		73884-1.RAW	13:47:28	918.79	Sample	OK	1
F708500-MS2	C6	400	0.26	2929.69	87.82	73885-1.RAW	13:51:36	807.39	Sample	OK	1
F708500-MSD2	C7	400	0.26	2980.99		73886-1.RAW	13:55:45	821.53	Sample	OK	1
SEQ-CCV6	C8	1	0.26	5.01	100.16	73887-1.RAW	13:59:54	552.13	Sample	OK	1
SEQ-CCB6	C9	1	0.26	0.05	0.00	73888-1.RAW	14:04:02	5.47	Sample	OK	1
F708459-BLK1	C10	20	0.26	0.87		73889-1.RAW	14:08:11	5.08	Sample	OK	1
F708459-BLK2	C11	20	0.26	1.28		73890-1.RAW	14:12:19	7.29	Sample	OK	1
F708459-BLK3	C12	20	0.26	0.31		73891-1.RAW	14:16:28	1.99	Sample	OK	1
*F708459-BLK4	D1	20	0.26	0.66		73892-2.RAW	14:21:11	3.90	Sample	OK	1
*F708459-BLK5	D2	20	0.26	0.73		73893-1.RAW	14:25:20	4.29	Sample	OK	1



F708459-BS1	D3	20	0.26	102.18		73894-1.RAW	14:29:28	563.26	Sample	OK	1
F708459-BSD1	D4	20	0.26	94.12		73895-1.RAW	14:33:37	518.84	Sample	OK	1
F708459-BS2	D5	400	0.26	2123.72		73896-1.RAW	14:37:45	585.35	Sample	OK	1
1708118-03RE2	D6	100	0.26	430.41		73897-1.RAW	14:41:54	474.58	Sample	OK	1
1708241-01	D7	100	0.26	198.69		73898-1.RAW	14:46:02	219.22	Sample	OK	1
SEQ-CCV7	D8	1	0.26	4.96	99.27	73899-1.RAW	14:50:11	547.26	Sample	OK	1
SEQ-CCB7	D9	1	0.26	0.04	0.00	73900-1.RAW	14:54:19	4.86	Sample	OK	1
1708241-02	D10	100	0.26	335.72		73901-1.RAW	14:58:28	370.22	Sample	OK	1
1708241-03	D11	100	0.26	398.43		73902-1.RAW	15:02:36	439.34	Sample	OK	1
1708241-04	D12	100	0.26	503.69		73903-1.RAW	15:06:44	555.33	Sample	OK	1
1708241-05	A1	100	0.26	517.32		73904-1.RAW	15:10:53	570.35	Sample	OK	1
1708241-06	A2	100	0.26	187.12		73905-1.RAW	15:15:01	206.47	Sample	OK	1
1708241-07	A3	100	0.26	175.40		73906-1.RAW	15:19:10	193.55	Sample	OK	1
1708241-08	A4	100	0.26	129.81		73907-1.RAW	15:23:18	143.31	Sample	OK	1
1708241-09	A5	100	0.26	171.84		73908-1.RAW	15:27:27	189.63	Sample	OK	1
1708241-10	A6	100	0.26	139.79		73909-1.RAW	15:31:35	154.31	Sample	OK	1
1708241-11	A7	100	0.26	229.08		73910-1.RAW	15:35:44	252.71	Sample	OK	1
SEQ-CCV8	A8	1	0.26	4.92	98.44	73911-1.RAW	15:39:52	542.66	Sample	OK	1
SEQ-CCB8	A9	1	0.26	0.07	0.00	73912-1.RAW	15:44:00	8.32	Sample	OK	1
1708241-12	A10	100	0.26	281.21		73913-1.RAW	15:48:09	310.16	Sample	OK	1
1708241-13	A11	100	0.26	185.03		73914-1.RAW	15:52:17	204.16	Sample	OK	1
1708241-14	A12	100	0.26	179.52		73915-1.RAW	15:56:26	198.09	Sample	OK	1
1708241-15	B1	100	0.26	250.59		73916-1.RAW	16:00:34	276.42	Sample	OK	1
F708459-DUP1	B2	100	0.26	387.77		73917-1.RAW	16:04:43	427.58	Sample	OK	1
F708459-MS1	B3	400	0.26	4855.91	1249.05	73918-1.RAW	16:08:51	1338.07	Sample	OK	1
F708459-MSD1	B4	400	0.26	4746.45		73919-1.RAW	16:12:59	1307.92	Sample	OK	1
F708459-MS2	B5	400	0.26	4611.85	97.12	73920-1.RAW	16:17:08	1270.83	Sample	OK	1
F708459-MSD2	B6	400	0.26	4504.78		73921-1.RAW	16:21:16	1241.34	Sample	OK	1
SEQ-CCV9	B7	1	0.26	5.18	103.70	73922-1.RAW	16:25:25	571.65	Sample	OK	1
SEQ-CCB9	B8	1	0.26	0.04	0.00	73923-1.RAW	16:29:33	5.05	Sample	OK	1

ANALYSIS SEQUENCE

QUALITY ASSURANCE

7H24011

PEER-REVIEWED

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

INITIALS: *R 8/24/17* Analyzed: 8/23/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H24011-JBL1 ✓	QC	1			
7H24011-JBL2 ✓	QC	2			
7H24011-JBL3 ✓	QC	3			
7H24011-CAL1 ✓	QC	4	1704505 ✓		
7H24011-CAL2 ✓	QC	5	1704506 ✓		
7H24011-CAL3 ✓	QC	6	1704507 ✓		
7H24011-CAL4 ✓	QC	7	1704508 ✓		
7H24011-CAL5 ✓	QC	8	1704509 ✓		
7H24011-ICV1 ✓	QC	9	1703679 ✓		
7H24011-CCV1 ✓	QC	10	1703679 ✓		
7H24011-CCB1 ✓	QC	11			
7H24011-CCV2 ✓	QC	12	1703679 ✓		
7H24011-CCB2 ✓	QC	13			
7H24011-CCV3 ✓	QC	14	1703679 ✓		
7H24011-CCB3 ✓	QC	15			
7H24011-CCV4 ✓	QC	16	1703679 ✓		
7H24011-CCB4 ✓	QC	17			
7H24011-CCV5 ✓	QC	18	1703679 ✓		
7H24011-CCB5 ✓	QC	19			
7H24011-CCV6 ✓	QC	20	1703679 ✓		
7H24011-CCB6 ✓	QC	21			
F708459-BLK1 ✓	QC	22			
F708459-BLK2 ✓	QC	23			
F708459-BLK3 ✓	QC	24			
F708459-BLK4 ✓	QC	25			
F708459-BLK5 ✓	QC	26			
F708459-BS1 ✓	QC	27			
F708459-BSD1 ✓	QC	28			
F708459-BS2 ✓	QC	29			
1708118-03RE2 ✓	Hg-CVAFS-T-7030	30			QC required for sample, see MMO notes. PL 8/17/17
1708241-01 ✓	Hg-CVAFS-T-7030	31			
7H24011-CCV7 ✓	QC	32	1703679 ✓		
7H24011-CCB7 ✓	QC	33			
1708241-02 ✓	Hg-CVAFS-T-7030	34			
1708241-03 ✓	Hg-CVAFS-T-7030	35			

ANALYSIS SEQUENCE

7H24011

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/23/2017

Table with columns: Lab Number, Analysis, Order, STD ID, ISTD ID, Comments. Rows include samples 1708241-04 to 1708241-15, 7H24011-CCV8, 7H24011-CCB8, F708459-DUP1 to F708459-MSD2, and 7H24011-CCV9, 7H24011-CCB9.

Don Moorem 8/23/17
Samples Loaded By Date

Don Moorem 8/24/17
Data Processed By Date

**PREPARATION BENCH SHEET**

F708459

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-011 Nitric/Sulfuric Hg Digestion**

**Prepared: 8/17/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708459-BLK1	Blank	0.5	20					
F708459-BLK2	Blank	0.5	20					
F708459-BLK3	Blank	0.5	20					
F708459-BLK4	Pre-BLK for 1708241	0.2753	20					
F708459-BLK5	Post-BLK for 1708241	0.252	20					
F708459-BS1	LCS	0.2965	20	1704421	20			
F708459-BS2	LCS	0.1323	20	1703305	132.3			
F708459-BSD1	LCS Dup	0.2825	20	1704421	20			
F708459-DUP1	Duplicate [1708118-03RE2]	0.2512	20					
F708459-MS1	Matrix Spike [1708118-03RE2]	0.258	20	1701763	100			
F708459-MS2	Matrix Spike [1708241-01]	0.2717	20	1701763	100			
F708459-MSD1	Matrix Spike Dup [1708118-03RE2]	0.2624	20	1701763	100			
F708459-MSD2	Matrix Spike Dup [1708241-01]	0.2544	20	1701763	100			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1701763	THg 1,000ng/mL Secondary Spiking Standard	22-Sep-17 00:00	1703182	25% Hydroxylamine-HCl working solution	24-Nov-17 00:00
1703305	DORM-4	29-May-20 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
1704421	THg 100ng/mL Primary Spiking Standard	21-Oct-17 00:00	1704516	THg Washstation (0.5% BrCl)	24-Nov-17 00:00
			1704517	THg Dilute 1% BrCl	18-Dec-17 00:00
			1704956	3% SnCl2 THg reductant	29-Jan-18 00:00
			1704958	5% BrCl	18-Dec-17 00:00
			1705022	70/30 Digestion Acid	13-Feb-18 00:00

**PREPARATION BENCH SHEET**

F708459

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-011 Nitric/Sulfuric Hg Digestion**

**Prepared: 8/17/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708118-03RE2	OB-01_17HC001_072517_POL_03_WB	0.2884	20	-	-	-	QC required for sample, see MMO note	
1708241-01	ES-02E_17HC001_073117_POL_01_WB	0.3855	20	QC	-	-	MS/MSD	
1708241-02	ES-02E_17HC001_073117_POL_02_WB	0.2726	20	-	-	-		
1708241-03	ES-02E_17HC001_073117_POL_03_WB	0.2672	20	-	-	-		
1708241-04	ES-02E_17HC001_073117_POL_04_WB	0.3195	20	-	-	-		
1708241-05	ES-02E_17HC001_073117_POL_05_WB	0.266	20	-	-	-		
1708241-06	ESFP_17HC001_072817_POL_01_WB	0.2898	20	-	-	-		
1708241-07	ESFP_17HC001_072817_POL_02_WB	0.2908	20	-	-	-		
1708241-08	ESFP_17HC001_072817_POL_03_WB	0.2656	20	-	-	-		
1708241-09	ESFP_17HC001_072817_POL_04_WB	0.2659	20	-	-	-		
1708241-10	ESFP_17HC001_072817_POL_05_WB	0.3108	20	-	-	-		
1708241-11	BFK_17HC001_073117_POL_01_WB	0.2595	20	-	-	-		
1708241-12	BFK_17HC001_073117_POL_02_WB	0.264	20	-	-	-		
1708241-13	BFK_17HC001_073117_POL_03_WB	0.2505	20	-	-	-		
1708241-14	BFK_17HC001_073117_POL_04_WB	0.2883	20	-	-	-		
1708241-15	BFK_17HC001_073117_POL_05_WB	0.2733	20	-	-	-		



**PREPARATION BENCH SHEET**

F708459

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-011 Nitric/Sulfuric Hg Digestion**

**Prepared: 8/17/2017**

**Due Date: 8/31/2017**

PREPARATION BENCH SHEET

F708459

Eurofins Frontier Global Sciences, Inc.

2600-3  
8/23/17 DM

Matrix: Tissue

Prepared using: AFS - EFGS-011 Nitric/Sulfuric Hg Digestion

Prepared: 8/17/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708459-BLK1	Blank	0.5	20					20X
F708459-BLK2	Blank	0.5	20					20X
F708459-BLK3	Blank	0.5	20					20X
F708459-BLK4	Pre-BLK for 1708241	0.2753	20					20X
F708459-BLK5	Post-BLK for 1708241	0.252	20					20X
F708459-BS1	LCS	0.2965	20	1704421	20			20X
F708459-BS2	LCS	0.1323	20	1703305	132.3			400X
F708459-BSD1	LCS Dup	0.2825	20	1704421	20			20X
F708459-DUP1	Duplicate [1708118-03RE2]	0.2512	20					100X
F708459-MS1	Matrix Spike [1708118-03RE2]	0.258	20	1701763	100			400X
F708459-MS2	Matrix Spike [1708241-01]	0.2717	20	1701763	100			400X
F708459-MSD1	Matrix Spike Dup [1708118-03RE2]	0.2624	20	1701763	100			400X
F708459-MSD2	Matrix Spike Dup [1708241-01]	0.2544	20	1701763	100			400X

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1701763	THg 1,000ng/mL Secondary Spiking Standard	22-Sep-17 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
1703305	DORM-4	29-May-20 00:00	1704958	5% BrCl	18-Dec-17 00:00
1704421	THg 100ng/mL Primary Spiking Standard	21-Oct-17 00:00	1705022	70/30 Digestion Acid	13-Feb-18 00:00

1704517  
1704516  
1703152  
1704956

Due Date: 8/31/2017

PREPARATION BENCH SHEET

2000-3  
8/23/17 DM

F708459

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-011 Nitric/Sulfuric Hg Digestion

Prepared: 8/17/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708118-03RE2	OB-01_17HC001_072517_POL_03_WB	0.2884	20	-	-	-	QC required for sample, see MMO note	100X -
1708241-01	ES-02E_17HC001_073117_POL_01_WB	0.3855	20	QC	-	-	MS/MSD	100X -
1708241-02	ES-02E_17HC001_073117_POL_02_WB	0.2726	20	-	-	-		100X -
1708241-03	ES-02E_17HC001_073117_POL_03_WB	0.2672	20	-	-	-		100X -
1708241-04	ES-02E_17HC001_073117_POL_04_WB	0.3195	20	-	-	-		100X -
1708241-05	ES-02E_17HC001_073117_POL_05_WB	0.266	20	-	-	-		100X -
1708241-06	ESFP_17HC001_072817_POL_01_WB	0.2898	20	-	-	-		100X -
1708241-07	ESFP_17HC001_072817_POL_02_WB	0.2908	20	-	-	-		100X -
1708241-08	ESFP_17HC001_072817_POL_03_WB	0.2656	20	-	-	-		100X -
1708241-09	ESFP_17HC001_072817_POL_04_WB	0.2659	20	-	-	-		100X -
1708241-10	ESFP_17HC001_072817_POL_05_WB	0.3108	20	-	-	-		100X -
1708241-11	BFK_17HC001_073117_POL_01_WB	0.2595	20	-	-	-		100X -
1708241-12	BFK_17HC001_073117_POL_02_WB	0.264	20	-	-	-		100X -
1708241-13	BFK_17HC001_073117_POL_03_WB	0.2505	20	-	-	-		100X -
1708241-14	BFK_17HC001_073117_POL_04_WB	0.2883	20	-	-	-		100X -
1708241-15	BFK_17HC001_073117_POL_05_WB	0.2733	20	-	-	-		100X -

Due Date: 8/31/2017



**PREPARATION BENCH SHEET**

F708459

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-011 Nitric/Sulfuric Hg Digestion**

**Prepared: 8/17/2017**

**Due Date: 8/31/2017**

Technician: cwF/cic

Batch#: F708459

Date: 8/17/17/8/18/17

EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.

EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.

EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).

EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: \_\_\_\_\_ Vial Type:  Glass  Teflon  
Balance#: 19 Calibrated?  Yes  No Therm.#: 14545 Calibrated?  Yes  No

\*Time in: 1421 Actual Temp. (raw): 80.0 °C w/ CF: 80.1 °C

Time out: 1645 Actual Temp. (raw): 80.0 °C w/ CF: 80.1 °C

\*Time in can't begin before target temperature is reached  
Final vol.: 20 mL (LIMS ID: 1704958) Spike vol.: 100 µL (LIMS ID: 1701763)  
MS/MSD

Spike Witness: Cmc 8/16/17 (initial and date)

HCl LIMS ID: NA

Pipette SN#: 0407852 Calibration Date: 8/18/17

HNO<sub>3</sub> LIMS ID: NA

Pipette SN#: N/A Calibration Date: N/A

70/30 LIMS ID: 1705022

Dispenser #: 02117494 Calibrated?  Yes  No

Other Acid LIMS ID: N/A

Dispenser #: 15406623 JTS

Glass Vial # 00068124 Boiling Chip lot # 1704424 \*Hotblock Position: L6

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input type="checkbox"/> g	Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input type="checkbox"/> g	CRM LIMS ID <input type="checkbox"/> NA
1	F708459 - BLK1	0.2919	23	1708241-09	0.2659	BS2 = DORM-4
2	F708459 - BLK2	0.2549	24	1708241-10	0.3108	LIMS = 1703305
3	F708459 - BLK3	0.2525	25	1708241-11	0.2595	
4	F708459 - BLK4	0.2753	26	1708241-12	0.2640	Comments BLK4 + 5 are homogenization Pre + Post blanks respectively
5	F708459 - BLK5	0.2520	27	1708241-13	0.2505	
6	F708459 - BSD1	0.2965	28	1708241-14	0.2883	
7	F708459 - BSD1	0.2825	29	1708241-15	0.2733	
8	F708459 - BSD2	0.1323	30			
9	1708180313EZ	0.1884	31			Dupl/MSV/MSD1
10	F708459-Dup1	0.2512	32			SRL: 170818-03 <sub>2</sub>
11	F708459-MS1	0.2580	33			
12	F708459-MSD1	0.2624	34			MSZ/MSD2
13	1708241-01	0.3855	35			SRL: 1708241-01
14	F708459-MS2	0.2717	36			spike + Acid added by: cic
15	F708459-MSD2	0.2544	37			
16	1708241-02	0.2726	38			BSV/BSD1 spikes 20µL of 100 <sup>ng</sup> /mL 1704421
17	1708241-03	0.2672	39			
18	1708241-04	0.3195	40			
19	1708241-05	0.2660	41			
20	1708241-06	0.2898	42			
21	1708241-07	0.2908	43			
22	1708241-08	0.2656	44			

**Failing Data Report - 7H24011**

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
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Don Moxem      8/24/17  
Analyst Reviewed By      Date

[Signature]      8/24/17  
Peer Reviewed By      Date

ANALYSIS SEQUENCE

QUALITY ASSURANCE

PEER-REVIEWED

7H24012

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

INITIALS: *R 8/23/17* Analyzed: 8/23/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H24012-IBL1	QC	1			
7H24012-IBL2	QC	2			
7H24012-IBL3	QC	3			
7H24012-CAL1	QC	4	1704505		
7H24012-CAL2	QC	5	1704506		
7H24012-CAL3	QC	6	1704507		
7H24012-CAL4	QC	7	1704508		
7H24012-CAL5	QC	8	1704509		
7H24012-ICV1	QC	9	1703679		
F708501-BLK1	QC	10			
F708501-BLK2	QC	11			
F708501-BS1	QC	12			
F708501-BSD1	QC	13			
1708086-04	Hg-CVAFS-S-7474	14			
1708086-05	Hg-CVAFS-S-7474	15			
1708086-06	Hg-CVAFS-S-7474	16			
1708151-01	Hg-CVAFS-S-7474	17			
1708151-02	Hg-CVAFS-S-7474	18			
1708151-03	Hg-CVAFS-S-7474	19			
7H24012-CCV1	QC	20	1703679		
7H24012-CCB1	QC	21			
1708151-04	Hg-CVAFS-S-7474	22			
1708151-05	Hg-CVAFS-S-7474	23			
1708151-06	Hg-CVAFS-S-7474	24			
1708151-07	Hg-CVAFS-S-7474	25			
1708151-08	Hg-CVAFS-S-7474	26			
1708151-09	Hg-CVAFS-S-7474	27			
1708151-10	Hg-CVAFS-S-7474	28			
1708151-11	Hg-CVAFS-S-7474	29			
1708151-12	Hg-CVAFS-S-7474	30			
1708151-13	Hg-CVAFS-S-7474	31			
7H24012-CCV2	QC	32	1703679		
7H24012-CCB2	QC	33			
1708151-14	Hg-CVAFS-S-7474	34			
1708151-15	Hg-CVAFS-S-7474	35			

## ANALYSIS SEQUENCE

7H24012

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/23/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708151-16	Hg-CVAFS-S-7474	36			
1708151-17	Hg-CVAFS-S-7474	37			
F708501-MS1	QC	38			
F708501-MSD1	QC	39			
F708501-MS2	QC	40			
F708501-MSD2	QC	41			
F708500-BLK1	QC	42			
F708500-BLK2	QC	43			
7H24012-CCV3	QC	44	1703679		
7H24012-CCB3	QC	45			
F708500-BS1	QC	46			
F708500-BSD1	QC	47			
1707810-13	Hg-CVAFS-S-7474	48			
1707810-14	Hg-CVAFS-S-7474	49			
1707810-15	Hg-CVAFS-S-7474	50			
1707810-16	Hg-CVAFS-S-7474	51			
1707810-17	Hg-CVAFS-S-7474	52			
1707810-18	Hg-CVAFS-S-7474	53			
1707810-19	Hg-CVAFS-S-7474	54			
1707810-20	Hg-CVAFS-S-7474	55			
7H24012-CCV4	QC	56	1703679		
7H24012-CCB4	QC	57			
1707810-21	Hg-CVAFS-S-7474	58			
1707810-22	Hg-CVAFS-S-7474	59			
1707810-23	Hg-CVAFS-S-7474	60			
1707810-24	Hg-CVAFS-S-7474	61			
1707810-25	Hg-CVAFS-S-7474	62			
1707810-26	Hg-CVAFS-S-7474	63			
1707810-27	Hg-CVAFS-S-7474	64			
1707810-28	Hg-CVAFS-S-7474	65			
1707810-29	Hg-CVAFS-S-7474	66			
1708086-01	Hg-CVAFS-S-7474	67			
7H24012-CCV5	QC	68	1703679		
7H24012-CCB5	QC	69			
1708086-02	Hg-CVAFS-S-7474	70			

Due Date: 8/24/2017

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Page 2 of 3

## ANALYSIS SEQUENCE

7H24012

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/23/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708086-03	Hg-CVAFS-S-7474	71			
1707810-23RE1	Hg-CVAFS-S-7474	72			Added 8/24/2017 by DM2
1707810-24RE1	Hg-CVAFS-S-7474	73			Added 8/24/2017 by DM2
1707810-27RE1	Hg-CVAFS-S-7474	74			Added 8/24/2017 by DM2
1707810-28RE1	Hg-CVAFS-S-7474	75			Added 8/24/2017 by DM2
F708500-MS1	QC	76			
F708500-MSD1	QC	77			
F708500-MS2	QC	78			
F708500-MSD2	QC	79			
7H24012-CCV6	QC	80	1703679		
7H24012-CCB6	QC	81			

Dan Motem 8/23/17  
 Samples Loaded By Date

Dan Motem 8/24/17  
 Data Processed By Date

**PREPARATION BENCH SHEET**

F708501

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/22/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708501-BLK1	Blank	0.5	200					
F708501-BLK2	Blank	0.5	200					
F708501-BS1	Blank Spike	0.5	200	1701763	40			
F708501-BSD1	Blank Spike	0.5	200	1701763	40			
F708501-MS1	Matrix Spike [1708151-01]	0.5933	200	1703591	50			
F708501-MS2	Matrix Spike [1708151-11]	0.5561	200	1703591	50			
F708501-MSD1	Matrix Spike Dup [1708151-01]	0.5573	200	1703591	50			
F708501-MSD2	Matrix Spike Dup [1708151-11]	0.522	200	1703591	50			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1701763	THg 1,000ng/mL Secondary Spiking Standard	22-Sep-17 00:00	1703182	25% Hydroxylamine-HCl working solution	24-Nov-17 00:00
1703591	THg 10,000ng/mL Primary Spiking Standard	14-Dec-17 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
			1704484	Fisher Nitric Acid, Tracemetal Grade	15-Mar-19 00:00
			1704516	THg Washstation (0.5% BrCl)	24-Nov-17 00:00
			1704517	THg Dilute 1% BrCl	18-Dec-17 00:00
			1704640	Omnitrace Hydrochloric Acid	27-Jul-20 00:00
			1704956	3% SnCl2 THg reductant	29-Jan-18 00:00
			1704959	7474 Potassium Bromate/Bromide Reagent	22-Aug-17 00:00

**PREPARATION BENCH SHEET**

F708501

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/22/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708086-04	AOI_21_080117_SS_N06_DUP	0.5733	200	-	-	-		
1708086-05	AOI_20_080117_SS_N08	0.5496	200	-	-	-		
1708086-06	AOI_1_OR_080117_SS_N08	0.5868	200	-	-	-		
1708151-01	W-100-A_080117_SED_00-01	0.5404	200	-	-	-		
1708151-02	W-100-A_080117_SED_01-03	0.5429	200	-	-	-		
1708151-03	W-101-INTA_080117_SED_00-01	0.5609	200	-	-	-		
1708151-04	W-101-INTA_080117_SED_01-03_R1	0.5794	200	-	-	-		
1708151-05	W-101-INTA_080117_SED_01-03_R2	0.5567	200	-	-	-		
1708151-06	W-101-INTA_080117_SED_01-03_R3	0.5957	200	-	-	-		
1708151-07	W-104-B_080117_SED_00-01	0.5563	200	-	-	-		
1708151-08	W-104-B_080117_SED_01-03	0.5933	200	-	-	-	Original jar broken, transferred sample	
1708151-09	W-104-INTB_080117_SED_00-01	0.5691	200	-	-	-	Original jar broken, transferred sample	
1708151-10	W-104-INTB_080117_SED_01-03	0.5986	200	-	-	-	Original jar broken, transferred sample	
1708151-11	W-106-A_080117_SED_00-01	0.5809	200	-	-	-		
1708151-12	W-106-A_080117_SED_01-03	0.577	200	-	-	-		
1708151-13	W-107-A_080117_SED_00-01	0.547	200	-	-	-		
1708151-14	W-107-A_080117_SED_01-03	0.5904	200	-	-	-		
1708151-15	W-109-A_080117_SED_00-01	0.5526	200	-	-	-		
1708151-16	W-109-A_080117_SED_01-03	0.5604	200	-	-	-		

Due Date: 8/30/2017



PREPARATION BENCH SHEET

F708501

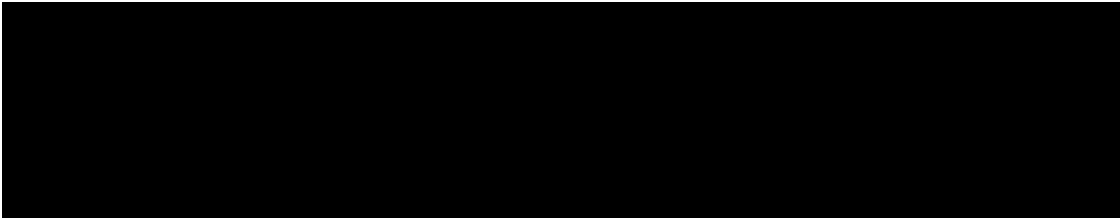
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/22/2017

1708151-17	W-110-A_080117_SED_00-01_R1	0.5175	200	-	-	-		
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PREPARATION BENCH SHEET

F708501

Eurofins Frontier Global Sciences, Inc.

200-3  
8/23/17 DM

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/22/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708501-BLK1	Blank	0.5	200					10X
F708501-BLK2	Blank	0.5	200					10X
F708501-BS1	Blank Spike	0.5	200	1701763	40			100X
F708501-BSD1	Blank Spike	0.5	200	1701763	40			100X
F708501-MS1	Matrix Spike [1708151-01]	0.5933	200	1703591	50			400X
F708501-MS2	Matrix Spike [1708151-11]	0.5561	200	1703591	50			400X
F708501-MSD1	Matrix Spike Dup [1708151-01]	0.5573	200	1703591	50			400X
F708501-MSD2	Matrix Spike Dup [1708151-11]	0.522	200	1703591	50			400X

Standard ID(s):  
1701763 THg 1,000ng/mL Secondary Spiking Standard  
1703591 THg 10,000ng/mL Primary Spiking Standard

Expiration:  
22-Sep-17 00:00  
14-Dec-17 00:00

Reagent ID(s):  
1704424 Boiling Chips for AFS prep  
1704484 Fisher Nitric Acid, Tracemetal Grade  
1704640 Omnitrace Hydrochloric Acid  
1704959 7474 Potassium Bromate/Bromide Reagent

Expiration:  
21-Jan-18 00:00  
15-Mar-19 00:00  
27-Jul-20 00:00  
22-Aug-17 00:00

1704517  
1704516  
1703182  
1704956

PREPARATION BENCH SHEET

F708501

Eurofins Frontier Global Sciences, Inc.

200-3

8/23/17 DM

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/22/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708086-04	AOI_21_080117_SS_N06_DUP	0.5733	200	-	-	-		SOX
1708086-05	AOI_20_080117_SS_N08	0.5496	200	-	-	-		SOX
1708086-06	AOI_1_OR_080117_SS_N08	0.5868	200	-	-	-		SOX
1708151-01	W-100-A_080117_SED_00-01	0.5404	200	-	-	-		SOX
1708151-02	W-100-A_080117_SED_01-03	0.5429	200	-	-	-		SOX
1708151-03	W-101-INTA_080117_SED_00-01	0.5609	200	-	-	-		SOX
1708151-04	W-101-INTA_080117_SED_01-03_R1	0.5794	200	-	-	-		SOX
1708151-05	W-101-INTA_080117_SED_01-03_R2	0.5567	200	-	-	-		SOX
1708151-06	W-101-INTA_080117_SED_01-03_R3	0.5957	200	-	-	-		SOX
1708151-07	W-104-B_080117_SED_00-01	0.5563	200	-	-	-		SOX
1708151-08	W-104-B_080117_SED_01-03	0.5933	200	-	-	-	Original jar broken, transferred sample	SOX
1708151-09	W-104-INTB_080117_SED_00-01	0.5691	200	-	-	-	Original jar broken, transferred sample	SOX
1708151-10	W-104-INTB_080117_SED_01-03	0.5986	200	-	-	-	Original jar broken, transferred sample	SOX
1708151-11	W-106-A_080117_SED_00-01	0.5809	200	-	-	-		SOX
1708151-12	W-106-A_080117_SED_01-03	0.577	200	-	-	-		SOX
1708151-13	W-107-A_080117_SED_00-01	0.547	200	-	-	-		SOX
1708151-14	W-107-A_080117_SED_01-03	0.5904	200	-	-	-		SOX
1708151-15	W-109-A_080117_SED_00-01	0.5526	200	-	-	-		SOX
1708151-16	W-109-A_080117_SED_01-03	0.5604	200	-	-	-		SOX

Due Date: 8/30/2017

PREPARATION BENCH SHEET

260.3

8/23/17 DM

F708501

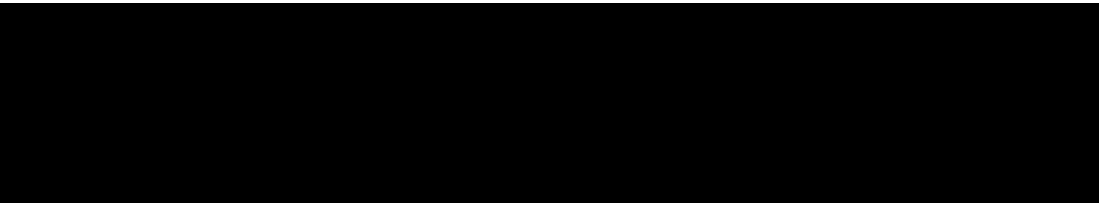
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/22/2017

1708151-17	W-110-A_080117_SED_00-01_R1	0.5175	200	-	-	-		50X
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Technician: Duyen Batch#: F708501 Date: 8-22-17

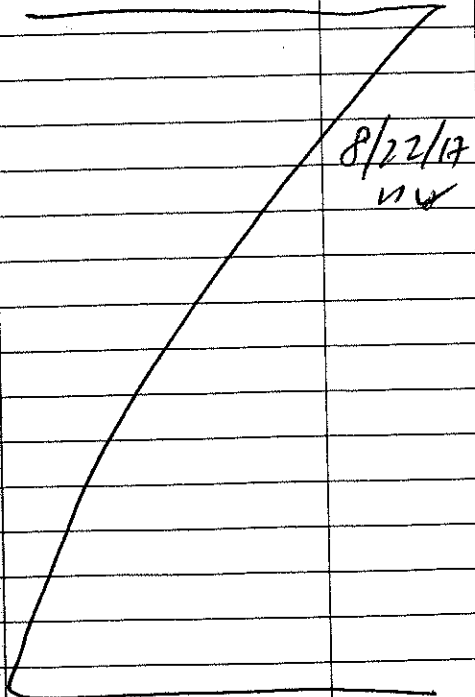
- EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: EPA 7474 Vial Type:  Glass  Teflon  
 Balance#: 19 Calibrated?  Yes  No Therm.#: N/A Calibrated?  Yes  No  
 \*Time in: N/A Actual Temp. (raw): N/A °C w/ CF: N/A °C  
 Time out: N/A Actual Temp. (raw): N/A °C w/ CF: N/A °C  
 \*Time in can't begin before target temperature is reached

Final vol.: 25 mL (LIMS ID: R0420) Spike vol.: 40 µL (LIMS ID: 1701763)  
 Spike Witness: WF 8/22/17 (initial and date)

HCl LIMS ID: 1704640 Pipette SN#: 0007852 Calibration Date: 8/18/17  
 HNO<sub>3</sub> LIMS ID: 1704484 Pipette SN#: 0007693 Calibration Date: 8/21/17  
 70/30 LIMS ID: N/A Dispenser #: 09W45351 Calibrated?  Yes  No  
 Other Acid LIMS ID: 1705105 Dispenser #: 08Y2293  Yes  
 Glass Vial # 726493-7025 Boiling Chip lot # 1704424 \*Hotblock Position: N/A

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	Vial # <u>8/22/17</u>	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	CRM LIMS ID <input checked="" type="checkbox"/> NA
1	F708501 Blk1	0.4986	23	1708151-12	0.5770	
2	F708501 Blk2	0.5918	24	1708151-13	0.5470	
3	F708501 Blk1	0.5079	25	1708151-14	0.5904	
4	F708501 Blk1	0.5030	26	1708151-15	0.5526	Comments
5	1708086-04	0.5733	27	1708151-16	0.5604	F708501
6	1708086-05	0.5496	28	1708151-17	0.5175	source
7	1708086-06	0.5868	29			MS1 MS21
8	1708151-01	0.5404	30			1708151-01
9	F708501 MS1	0.5933	31			F708501
10	F708501 MS21	0.5533	32			MS2 MS22
11	1708151-02	0.5429	33			1708151-11
12	1708151-03	0.5609	34			
13	1708151-04	0.5794	35			
14	1708151-05	0.5562	36			
15	1708151-06	0.5957	37			
16	1708151-07	0.5563	38			
17	1708151-08	0.5933	39			
18	1708151-09	0.5691	40			
19	1708151-10	0.5986	41			
20	1708151-11	0.5809	42			
21	F708501-MS2	0.5561	43			
22	F708501-MS21	0.5220	44			



F708501  
 source  
 MS1 MS21  
 1708151-01  
 F708501  
 MS2 MS22  
 1708151-11  
 All spike  
 MS1 MS21  
 = 10,000 µg/ml  
 = 50 µg  
 1703591  
 8/22/17 no

**PREPARATION BENCH SHEET**

F708500

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/22/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708500-BLK1	Blank	0.5	200					
F708500-BLK2	Blank	0.5	200					
F708500-BS1	Blank Spike	0.5	200	1701763	40			
F708500-BSD1	Blank Spike	0.5	200	1701763	40			
F708500-MS1	Matrix Spike [1707810-21]	0.5438	200	1703591	50			
F708500-MS2	Matrix Spike [1708086-01]	0.5336	200	1703591	50			
F708500-MSD1	Matrix Spike Dup [1707810-21]	0.589	200	1703591	50			
F708500-MSD2	Matrix Spike Dup [1708086-01]	0.5684	200	1703591	50			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1701763	THg 1,000ng/mL Secondary Spiking Standard	22-Sep-17 00:00	1703182	25% Hydroxylamine-HCl working solution	24-Nov-17 00:00
1703591	THg 10,000ng/mL Primary Spiking Standard	14-Dec-17 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
			1704484	Fisher Nitric Acid, Tracemetal Grade	15-Mar-19 00:00
			1704516	THg Washstation (0.5% BrCl)	24-Nov-17 00:00
			1704517	THg Dilute 1% BrCl	18-Dec-17 00:00
			1704640	Omnitrace Hydrochloric Acid	27-Jul-20 00:00
			1704956	3% SnCl <sub>2</sub> THg reductant	29-Jan-18 00:00
			1704959	7474 Potassium Bromate/Bromide Reagent	22-Aug-17 00:00

**PREPARATION BENCH SHEET**

F708500

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/22/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1707810-13	W-65-Intertidal_072617_SED_03-05	0.5629	200	-	-	-		
1707810-14	BO-05_072617_SED_03-05	0.5746	200	-	-	-		
1707810-15	BO-05_072617_SED_05-10	0.5486	200	-	-	-		
1707810-16	W-21-High_072617_SED_03-05	0.5429	200	-	-	-		
1707810-17	W-21-High_072617_SED_05-10	0.5592	200	-	-	-		
1707810-18	W-21-Intertidal_072617_SED_03-05	0.5231	200	-	-	-		
1707810-19	W-21-Intertidal_072617_SED_05-10	0.5314	200	-	-	-		
1707810-20	W-21-UM-Central-E_072617_SED_03-05	0.5479	200	-	-	-		
1707810-21	W-21-UM-Central-E_072617_SED_05-10	0.5421	200	-	-	-		
1707810-22	W-21-Mid_072617_SED_03-05	0.589	200	-	-	-		
1707810-23	W-21-Mid_072617_SED_05-10	0.5336	200	-	-	-		
1707810-23RE1	W-21-Mid_072617_SED_05-10	0.5336	200	-	-	-	Added 8/24/2017 by DM2	Added 8/24/2017 by DM2
1707810-24	W-17-Intertidal_072617_SED_03-05	0.5664	200	-	-	-		
1707810-24RE1	W-17-Intertidal_072617_SED_03-05	0.5664	200	-	-	-	Added 8/24/2017 by DM2	Added 8/24/2017 by DM2
1707810-25	W-17-Intertidal_072617_SED_05-10	0.5472	200	-	-	-		
1707810-26	W-21-Low_072617_SED_03-05	0.5876	200	-	-	-		
1707810-27	W-21-Low_072617_SED_05-10	0.5623	200	-	-	-		
1707810-27RE1	W-21-Low_072617_SED_05-10	0.5623	200	-	-	-	Added 8/24/2017 by DM2	Added 8/24/2017 by DM2
1707810-28	ADD-02_072517_SED_03-05	0.553	200	-	-	-		

Due Date: 8/24/2017

**PREPARATION BENCH SHEET**

F708500

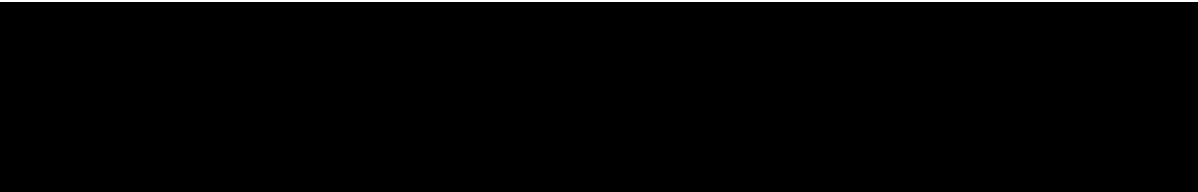
**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/22/2017**

1707810-28RE1	ADD-02_072517_SED_03-05	0.553	200	-	-	-	Added 8/24/2017 by DM2	Added 8/24/2017 by DM2
1707810-29	ADD-02_072517_SED_05-10	0.5731	200	-	-	-		
1708086-01	AOI_21_080117_SS_N06_R1	0.5718	200	QC	-	-	MS/MSD	
1708086-02	AOI_21_080117_SS_N06_R2	0.5385	200	-	-	-		
1708086-03	AOI_21_080117_SS_N06_R3	0.5473	200	-	-	-		





PREPARATION BENCH SHEET

2600-3  
8/23/17 DM

F708500

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/22/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708500-BLK1	Blank	0.5	200					10X
F708500-BLK2	Blank	0.5	200					10X
F708500-BS1	Blank Spike	0.5	200	1701763	40			100X
F708500-BSD1	Blank Spike	0.5	200	1701763	40			100X
F708500-MS1	Matrix Spike [1707810-21]	0.5438	200	1703591	50			400X
F708500-MS2	Matrix Spike [1708086-01]	0.5336	200	1703591	50			400X
F708500-MSD1	Matrix Spike Dup [1707810-21]	0.589	200	1703591	50			400X
F708500-MSD2	Matrix Spike Dup [1708086-01]	0.5684	200	1703591	50			400X

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1701763	THg 1,000ng/mL Secondary Spiking Standard	22-Sep-17 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
1703591	THg 10,000ng/mL Primary Spiking Standard	14-Dec-17 00:00	1704484	Fisher Nitric Acid, Tracemetal Grade	15-Mar-19 00:00
			1704640	Omnitrace Hydrochloric Acid	27-Jul-20 00:00
			1704959	7474 Potassium Bromate/Bromide Reagent	22-Aug-17 00:00

1703182  
1704956  
1704516  
1704517

PREPARATION BENCH SHEET

F708500

Eurofins Frontier Global Sciences, Inc.

200-3  
8/23/17 DM

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/22/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1707810-13	W-65-Intertidal_072617_SED_03-05	0.5629	200	-	-	-		SOX
1707810-14	BO-05_072617_SED_03-05	0.5746	200	-	-	-		SOX
1707810-15	BO-05_072617_SED_05-10	0.5486	200	-	-	-		SOX
1707810-16	W-21-High_072617_SED_03-05	0.5429	200	-	-	-		SOX
1707810-17	W-21-High_072617_SED_05-10	0.5592	200	-	-	-		SOX
1707810-18	W-21-Intertidal_072617_SED_03-05	0.5231	200	-	-	-		SOX
1707810-19	W-21-Intertidal_072617_SED_05-10	0.5314	200	-	-	-		SOX
1707810-20	W-21-UM-Central-E_072617_SED_03-05	0.5479	200	-	-	-		SOX
1707810-21	W-21-UM-Central-E_072617_SED_05-10	0.5421	200	-	-	-		SOX
1707810-22	W-21-Mid_072617_SED_03-05	0.589	200	-	-	-		SOX
1707810-23	W-21-Mid_072617_SED_05-10	0.5336	200	-	-	-		SOX → 100X
1707810-24	W-17-Intertidal_072617_SED_03-05	0.5664	200	-	-	-		SOX → SOX
1707810-25	W-17-Intertidal_072617_SED_05-10	0.5472	200	-	-	-		SOX
1707810-26	W-21-Low_072617_SED_03-05	0.5876	200	-	-	-		SOX
1707810-27	W-21-Low_072617_SED_05-10	0.5623	200	-	-	-		SOX → 100X
1707810-28	ADD-02_072517_SED_03-05	0.553	200	-	-	-		SOX → SOX
1707810-29	ADD-02_072517_SED_05-10	0.5731	200	-	-	-		SOX
1708086-01	AOI_21_080117_SS_N06_R1	0.5718	200	QC	-	-	MS/MSD	SOX
1708086-02	AOI_21_080117_SS_N06_R2	0.5385	200	-	-	-		SOX

PREPARATION BENCH SHEET

200-3  
8/23/17 DM

F708500

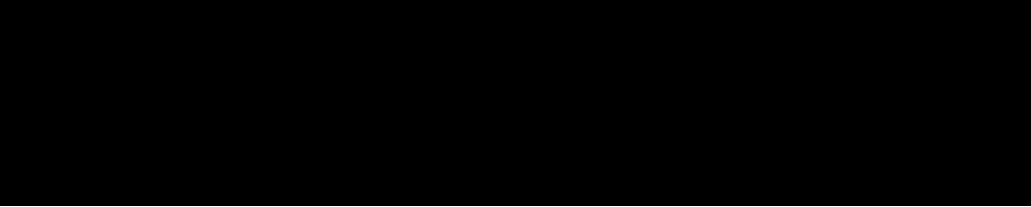
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/22/2017

1708086-03	AOI_21_080117_SS_N06_R3	0.5473	200	-	-	-	50%
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Technician: Duyen Batch#: F708500 Date: 8/22/17

- EFAPS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAPS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAPS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAPS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: EPA 7474 Vial Type:  Glass  Teflon  
 Balance#: 19 Calibrated?  Yes  No Therm.#: N/A Calibrated?  Yes  No  
 \*Time in: N/A Actual Temp. (raw): N/A °C w/ CF: N/A °C  
 Time out: N/A Actual Temp. (raw): N/A °C w/ CF: N/A °C  
 \*Time in can't begin before target temperature is reached

Final vol.: 25 mL (LIMS ID: ROH20) Spike vol.: 40 µL (LIMS ID: 1701763)  
 Spike Witness: Cue 8/22/17 (initial and date)

HCl LIMS ID: 1704640 Pipette SN#: 0007852 Calibration Date: 8-18-17  
 HNO<sub>3</sub> LIMS ID: 1704484 Pipette SN#: 0007693 Calibration Date: 8/21/17  
 70/30 LIMS ID: N/A Dispenser #: 09W45351 Calibrated?  Yes  No  
 Other Acid LIMS ID: 1705105 Dispenser #: 0842293 Yes  
 Glass Vial # J26 4713-3025 Boiling Chip lot # 1704424 \*Hotblock Position: N/A

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input type="checkbox"/> µg	Vial # <u>8/22/17</u>	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	CRM LIMS ID <input checked="" type="checkbox"/> NA
1	F708500 Bk1	0.5513	23	1707810-29	0.5731	
2	F708500 Bk2	0.5061	24	1708086-01B	0.5718	
3	F708500 B51	0.5292	25	F708500 MS2	0.5376	
4	F708500 B5M1	0.5468	26	F708500 MS2	0.5684	Comments
5	1707810-13	0.5629	27	1708086-02A	0.5385	F708500
6	1707810-14	0.5746	28	1708086-03A	0.5473	source 21
7	1707810-15	0.5486	29			1707810-22
8	1707810-16	0.5429	30			MS1 MS2
9	1707810-17	0.5592	31			
10	1707810-18	0.5231	32			F708500
11	1707810-19	0.5314	33			MS2 MS2
12	1707810-20	0.5479	34			1708086-01
13	1707810-21	0.5421	35			ALL spike
14	F708500-MS2	0.5575	36			MS1 MS2
15	F708500-MS2	0.5438	37			= 10,000 µg/L
16	1707810-22	0.5890	38			= 50 µg/L
17	1707810-23	0.5376	39			1707591
18	1707810-24	0.5664	40			vial # 14
19	1707810-25	0.5472	41			F708500-MS1
20	1707810-26	0.5876	42			= 0.5575 µg
21	1707810-27	0.5623	43			8/22/17
22	1707810-28	0.5530	44			

**Failing Data Report - 7H24012**

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
1707810-23	Hg-CVAFS-S-7474	2640	59.7				ng/g						FAIL-OVER	PASS	E
1707810-27	Hg-CVAFS-S-7474	2670	46.7				ng/g						FAIL-OVER	PASS	E

Don M...      3/24/17  
 Analyst Reviewed By      Date

PLM      3/24/17  
 Peer Reviewed By      Date

## Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)

Analyst:	DON MORAN	Sequence(s) #:	7H24011, 7H24012
Reviewer:	<i>A 8/24/17</i>	Dataset ID(s):	THG26003-170823-1
Date:	8/24/2017	WO (s) #:	1708086, 1708151, 1707810, 1708118, 1708241
Batch #(s):	F708501, F708500, F708459		

• Select the correct preparation method.

Analyte	Prep Method		Matrix
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2985	FSTM Trap 70:30 Digest	Air/Gas
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2807	Modified Cold Aqua Regia	Sed/Soil
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2821	Shared Bomb- HF/HNO3/HCl Digest	Sed/Soil
<input type="checkbox"/> THg	EFTM-T-TM-SOP2825	Nitric Acid Oven Bomb	Sed/Soil
<input checked="" type="checkbox"/> THg	EFAFS-T-AFS-SOP2795	70:30 Digest	Tissue
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2800	KCl Trap BrCl Oxidation	Air/Gas
<input type="checkbox"/> THg	EFTM-T-TM-SOP2837	Shared Nitric	Tissue
<input type="checkbox"/> THg	EFSR-P-SP-SOP2796	BrCl Oxidation	Water
<input type="checkbox"/> Hg0	NA	NA	Water
<input type="checkbox"/> Inorg Hg	NA	NA	Water

Analyst Initials: DMReviewer Initials: A 8/24/17

- |   |   |  |  |
|---|---|--|--|
| 1. Compare SampleID with Benchsheet/Sequence/Raw Data (Have all samples been imported?)             | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |
| 2. Check for transcription errors from Excel spreadsheet (or Prep Benchsheet)/Raw data              | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |
| (a) On raw data (instrument print-out), does correct file (dataset ID#) name appear in description? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |
| Naming convention: THg26001-yymmdd-1 or THg26002-yymmdd-1   |   |  |  |
| (b) Check 5% of transcription from Instrument print-out and Excel file                              | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |
| Compare the "Dilute" and "Peak (raw)" columns to "Dilution" and "Uncorrected Result" in Excel       |   |  |  |
| (c) Check standards & reagents in sequence & bench sheet for correct usage (expiries).              | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| (d) Check and compare masses (review prep benchsheet)   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| (e) Check & compare initial & final volumes   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| (f) Do aliquots and dilutions written on benchsheet match those in Excel?                           | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 50 ml / aliquot = Excel dilution value  |   |  |  |
| (g) Is the sequence #, analyst, date, and instrument # on the QC page?                              | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |
| (h) Is the analysis status correct? (analyzed/initial review/reviewed)                              | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |
| (i) Original prep bench sheet added to data package?  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |
| (j) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)               | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |
| 3. High QA? WO#(s)/Client(s): _____   | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>                              |
| 4. Client specific QC? (if Yes, refer to Project Notes/LIMS)  | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>                              |
| (a) Have the QC requirements been met for all WO#s?   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/>   |
| (b) Prep blanks corrections/assigned properly   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |
| 5a. 20 or fewer samples in batch?   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |
| (i) 3 PBs, 1 LCS(or BS), 1 LCSD(or BSD), 1 DUP/Batch 1 MS/MSD (or AS/ASD)/10 samples?               | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |
| (ii) 1 CCV and 1 CCB every 10 analytical runs?  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>                              |

**Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)**

<b>Analyst:</b> DON MORAN	<b>Sequence(s) #:</b> 7H24011, 7H24012
<b>Reviewer:</b> 0 <i>R 8/24/17</i>	<b>Dataset ID(s):</b> THG26003-170823-1
<b>Date:</b> 8/24/2017	<b>WO (s) #:</b> 1708086, 1708151, 1707810, 1708118, 1708241
<b>Batch #(s):</b> F708501, F708500, F708459	0

**Analyst Initials** DM                      **Reviewer Initials** R 8/24/17

- 5b. Has the B/C section data been uploaded?  YES     NO     N/A
- QA/QC Data Checked**
6. RSD CF (≤ 15%)  PASS     FAIL      
 Comments: \_\_\_\_\_
7. The calibration curve included a minimum of 5 Standards  YES     NO      
 Comments: \_\_\_\_\_
8. 1st Calibration Standard % Recoveries EPA 1631E (75-125%)  PASS     FAIL
9. ICV and CCV % Recoveries EPA 1631E (77-123%)  PASS     FAIL      
 Comments: \_\_\_\_\_
10. Do all calibration points pass acceptance criteria?  YES     NO      
 Comments: \_\_\_\_\_
11. Are qualifiers consistent with the data review flowcharts?  YES     NO     N/A      
 Comments: \_\_\_\_\_
12. Explain any items on the failed data report from Element   
 Comments: 1707810-23, 27 HIGH SAMPLES. ABOVE CAL5
13. Are the individual Preparation Blanks < PQL or <2.2xMDL for WI (refer to appropriate prep method PQL list)  PASS     FAIL      
 (a) If not < PQL or <2.2xMDL for WI, note which PB(s) are above control limit:  
 (b) Is the mean PB < PQL or <2.2xMDL for WI (for appropriate qualification)?  YES     NO      
 (c) Was a BrCl Blank analyzed for each preservation level?  YES     NO     N/A      
 (d) Are Preparation Blanks summarized on QC page?  YES     NO
14. Filtration Blank Prepared (if yes, use FB qualifier)  YES     NO      
 (a) Filtration Blank prep date same as associated samples' prep date  YES     NO     N/A      
 (b) Filtration Blank absolute value < PQL or <2.2xMDL for WI  YES     NO     N/A
15. IBLs (3 minimum) individually < 0.50 ng/L, mean < 0.25 ng/L and STD of 0.10 ng/L?  PASS     FAIL      
 Comments: \_\_\_\_\_
16. CCBs individually < 0.50 ng/L or 2.2 x MDL for WI?  PASS     FAIL      
 Comments: \_\_\_\_\_
17. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done)  YES     NO     N/A
18. Is the correct 'Source' designated for MD/MS/MSD?  YES     NO
19. For digested preps: was there a spike witness signature & date on the prep bench sheet?  YES     NO     N/A

**Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)**

<b>Analyst:</b>	DON MORAN	<b>Sequence(s) #:</b>	7H24011, 7H24012
<b>Reviewer:</b>	0 <i>R 8/24/17</i>	<b>Dataset ID(s):</b>	THG26003-170823-1
<b>Date:</b>	8/24/2017	<b>WO (s) #:</b>	1708086, 1708151, 1707810, 1708118, 1708241
<b>Batch #(s):</b>	F708501, F708500, F708459		0

Analyst Initials DM                      Reviewer Initials R 8/24/17

- |  |  |                               |   |
|--|--|-------------------------------|---|
| 20. MS/MSD Spiked at least 1-5 X ambient or 5x MRL (whichever is higher) ?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |
| Comments: _____  |  |                               |   |
| 21. Are all samples within instrument calibration range? (or at minimum dilution size)   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL | <input checked="" type="checkbox"/>   |
| Comments: _____  |  |                               |   |
| 22. Are the samples run at the correct dilution level for the method?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |
| Comments: _____  |  |                               |   |
| 23. Dissolved < Total (if applicable)  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 24. Effluent < Influent (visually confirm if needed)   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 25. Are re-runs noted with reason?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| Comments: _____  |  |                               |   |
| 26. FSTM Datasets: Check to ensure the 'Response' & 'Initial Result' columns match in both the Excel dataset & LIMS for the FSTM A (in sequence) & B/C (in batch) traps? | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 27. Is the B trap <5% A Traps  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 28. Are spiked trap recoveries 75-125% of true value?  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 29. Have non-reportable samples been imported into LIMS and clicked to non-reportable?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| Comments: _____  |  |                               |   |
| 30. Have re-extracts been created for non-reportable samples?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| 31. Are there any HIGH QA projects within the data? If so, place data package in QA office before scanning.  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 32. Does the data set need scanning?   | <input type="checkbox"/> YES             |                               | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 33. Does the dataset have an LOQ/LOQ or DOC?   | <input type="checkbox"/> YES             |                               | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 34. Water samples: has the preservation log been included in dataset for final volume verification?  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 35. Water samples-is the final volume correct in the sequence?   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Files located at: \\Cuprum\gen_admin\Quality Assurance\Training Master\DOCs  |  |                               |   |
| 36. Date of analyst IDOC/CDOC: _____ 12/1/16, 11/23/16 _____ IDOC/CDOC within last 12 months?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |
| 37. Date of analyst's SOP reading for method: _____ 5/20/2016 _____ Current SOP revision read?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |
| 38. Date of LOD: _____ 5/9/17, 4/26/17 _____ LOD within last 3 months?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |
| 39. Date of LOQ: _____ 5/9/17, 4/26/17 _____ LOQ within last 3 months?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |

**Data can not be reported without a current IDOC/CDOC, LOD or LOQ.**







Frontier Global Sciences

MHg27001-170824-1

Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: August 24, 2017

Analyst: DM2

Instrument #: Hg2700-1

Units ng/L

LIMS Sequence #: 7H25003

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	21.74 units	434.79	21.74 units	434.79	93.2 %Rec
SEQ-CAL2	1	0.20 ng/L	90.21 units	451.05	90.21 units	451.05	96.7 %Rec
SEQ-CAL3	1	1.00 ng/L	497.69 units	497.69	497.69 units	497.69	106.7 %Rec
SEQ-CAL4	1	2.00 ng/L	920.02 units	460.01	920.02 units	460.01	98.6 %Rec
SEQ-CAL5	1	4.00 ng/L	1955.84 units	488.96	1955.84 units	488.96	104.8 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

**Corr. Mean RF**    **Corr. St Dev RF**    **Corr. RSD CF**    **Uncorr. Mean RF**  
 466.50            +/- 26.29            5.6% RSD            466.50

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.00 units		0.00 ng/L	#VALUE!

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.000 ng/L	±0.000
BLK	2	3	0.503 ng/L	±0.871
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

QUALITY ASSURANCE  
PEER-REVIEWED

INITIALS:     R 9/4/17

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB					Comments	
		Type	LabNumber							Correction?	RESP	InitialResult	FinalResult	InitialUnits		
Hg2700-1	DM2	CAL	SEQ-IBL1	1	8/24/17 10:11	25190-1.RAW	10:11:57	0.00				0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL1	1	8/24/17 10:22	25191-1.RAW	10:22:28	21.74				21.7	0.047	0.047	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL2	1	8/24/17 10:32	25192-1.RAW	10:32:58	90.21				90.2	0.193	0.193	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL3	1	8/24/17 10:43	25193-1.RAW	10:43:29	497.69				497.7	1.067	1.067	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL4	1	8/24/17 10:54	25194-1.RAW	10:54:00	920.02				920.0	1.972	1.972	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL5	1	8/24/17 11:04	25195-1.RAW	11:04:31	1955.84				1955.8	4.193	4.193	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICV1	1	8/24/17 11:15	25196-1.RAW	11:15:01	232.81				232.8	0.499	0.499	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICB1	1	8/24/17 11:25	25197-1.RAW	11:25:32	1.96				2.0	0.004	0.004	ng/L	
Hg2700-1	DM2	BLK	F708475-BLK1	500	8/24/17 11:36	25198-1.RAW	11:36:03	0.00	1			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708475-BLK2	500	8/24/17 11:46	25199-1.RAW	11:46:34	0.00	1			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708475-BLK3	500	8/24/17 11:57	25200-1.RAW	11:57:04	0.00	1			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	F708475-BS1	1000	8/24/17 12:07	25201-1.RAW	12:07:35	599.20	1			599.2	1.284	1284.462	ng/L	
Hg2700-1	DM2	SAM	F708475-BSD1	1000	8/24/17 12:18	25202-1.RAW	12:18:06	650.01	1			650.0	1.393	1393.374	ng/L	
Hg2700-1	DM2	SAM	F708475-DUP1	500	8/24/17 12:28	25203-1.RAW	12:28:37	45.72	1			45.7	0.098	49.001	ng/L	
Hg2700-1	DM2	SAM	F708475-MS1	500	8/24/17 12:39	25204-1.RAW	12:39:07	306.32	1			306.3	0.657	328.317	ng/L	
Hg2700-1	DM2	SAM	F708475-MSD1	500	8/24/17 12:49	25205-1.RAW	12:49:38	307.55	1			307.5	0.659	329.633	ng/L	
Hg2700-1	DM2	SAM	F708475-MS2	500	8/24/17 13:00	25206-1.RAW	13:00:09	518.45	1			518.5	1.111	555.686	ng/L	
Hg2700-1	DM2	SAM	F708475-MSD2	500	8/24/17 13:10	25207-1.RAW	13:10:39	525.97	1			526.0	1.127	563.743	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV1	1	8/24/17 13:21	25208-1.RAW	13:21:10	205.38				205.4	0.440	0.440	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB1	1	8/24/17 13:31	25209-1.RAW	13:31:41	1.02				1.0	0.002	0.002	ng/L	
Hg2700-1	DM2	SAM	1708151-04	500	8/24/17 13:42	25210-1.RAW	13:42:12	41.26	1			41.3	0.088	44.226	ng/L	
Hg2700-1	DM2	SAM	1708151-05	500	8/24/17 13:52	25211-1.RAW	13:52:42	47.24	1			47.2	0.101	50.630	ng/L	
Hg2700-1	DM2	SAM	1708151-06	500	8/24/17 14:03	25212-1.RAW	14:03:13	48.04	1			48.0	0.103	51.486	ng/L	
Hg2700-1	DM2	SAM	1708151-07	500	8/24/17 14:13	25213-1.RAW	14:13:44	14.36	1			14.4	0.031	15.392	ng/L	
Hg2700-1	DM2	SAM	1708151-08	500	8/24/17 14:24	25214-1.RAW	14:24:15	14.50	1			14.5	0.031	15.546	ng/L	
Hg2700-1	DM2	SAM	1708151-09	500	8/24/17 14:34	25215-1.RAW	14:34:45	78.71	1			78.7	0.169	84.363	ng/L	
Hg2700-1	DM2	SAM	1708151-10	500	8/24/17 14:45	25216-1.RAW	14:45:16	51.55	1			51.6	0.111	55.253	ng/L	
Hg2700-1	DM2	SAM	1708151-11	500	8/24/17 14:55	25217-1.RAW	14:55:47	18.32	1			18.3	0.039	19.631	ng/L	
Hg2700-1	DM2	SAM	1708151-12	500	8/24/17 15:06	25218-1.RAW	15:06:18	14.32	1			14.3	0.031	15.353	ng/L	
Hg2700-1	DM2	SAM	1708151-13	500	8/24/17 15:16	25219-1.RAW	15:16:48	25.27	1			25.3	0.054	27.086	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV2	1	8/24/17 15:27	25220-1.RAW	15:27:19	177.39				177.4	0.380	0.380	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB2	1	8/24/17 15:37	25221-1.RAW	15:37:50	0.00				0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708151-14	500	8/24/17 15:48	25222-1.RAW	15:48:21	51.78	1			51.8	0.111	55.498	ng/L	
Hg2700-1	DM2	SAM	1708151-15	500	8/24/17 15:58	25223-1.RAW	15:58:51	2.16	1			2.2	0.005	2.314	ng/L	
Hg2700-1	DM2	SAM	1708151-16	500	8/24/17 16:09	25224-1.RAW	16:09:22	10.31	1			10.3	0.022	11.051	ng/L	
Hg2700-1	DM2	SAM	1708151-17	500	8/24/17 16:19	25225-1.RAW	16:19:53	4.22	1			4.2	0.009	4.528	ng/L	
Hg2700-1	DM2	SAM	1708151-18	500	8/24/17 16:30	25226-1.RAW	16:30:24	5.88	1			5.9	0.013	6.300	ng/L	
Hg2700-1	DM2	SAM	1708151-19	500	8/24/17 16:40	25227-1.RAW	16:40:54	4.06	1			4.1	0.009	4.354	ng/L	
Hg2700-1	DM2	SAM	1708151-20	500	8/24/17 16:51	25228-1.RAW	16:51:25	25.50	1			25.5	0.055	27.326	ng/L	
Hg2700-1	DM2	SAM	1708151-21	500	8/24/17 17:01	25229-1.RAW	17:01:56	42.34	1			42.3	0.091	45.376	ng/L	
Hg2700-1	DM2	SAM	1708151-22	500	8/24/17 17:12	25230-1.RAW	17:12:27	26.25	1			26.3	0.056	28.138	ng/L	
Hg2700-1	DM2	SAM	1708151-23	500	8/24/17 17:22	25231-1.RAW	17:22:57	17.12	1			17.1	0.037	18.346	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV3	1	8/24/17 17:33	25232-1.RAW	17:33:28	195.68				195.7	0.419	0.419	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB3	1	8/24/17 17:43	25233-1.RAW	17:43:59	0.45				0.4	0.001	0.001	ng/L	
Hg2700-1	DM2	SAM	F708475-BS2	1000	8/24/17 17:54	25234-1.RAW	17:54:30	502.29	1			502.3	1.077	1076.726	ng/L	
Hg2700-1	DM2	SAM	F708475-BSD2	1000	8/24/17 18:05	25235-1.RAW	18:05:00	539.12	1			539.1	1.156	1155.679	ng/L	

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB					Comments
		Type	LabNumber							Correction?	RESP	InitialResult	FinalResult	InitialUnits	
Hg2700-1	DM2	BLK	F708477-BLK1	500	8/24/17 18:15	25236-1.RAW	18:15:31	1.41	2		1.4	0.003	1.509	ng/L	
Hg2700-1	DM2	BLK	F708477-BLK2	500	8/24/17 18:26	25237-1.RAW	18:26:02	0.00	2		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708477-BLK3	500	8/24/17 18:36	25238-1.RAW	18:36:32	0.00	2		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	F708477-BS1	1000	8/24/17 18:47	25239-1.RAW	18:47:01	563.63	2		563.6	1.208	1207.717	ng/L	
Hg2700-1	DM2	SAM	F708477-BS01	1000	8/24/17 18:57	25240-1.RAW	18:57:32	570.00	2		570.0	1.221	1221.367	ng/L	
Hg2700-1	DM2	SAM	F708477-DUP1	500	8/24/17 19:08	25241-1.RAW	19:08:03	64.76	2		64.8	0.138	68.903	ng/L	
Hg2700-1	DM2	SAM	F708477-MS1	500	8/24/17 19:18	25242-1.RAW	19:18:33	372.69	2		372.7	0.798	398.955	ng/L	
Hg2700-1	DM2	SAM	F708477-MSD1	500	8/24/17 19:29	25243-1.RAW	19:29:04	590.06	2		590.1	1.264	631.928	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV4	1	8/24/17 19:39	25244-1.RAW	19:39:35	180.49			180.5	0.387	0.387	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB4	1	8/24/17 19:50	25245-1.RAW	19:50:05	1.20			1.2	0.003	0.003	ng/L	
Hg2700-1	DM2	SAM	F708477-MS2	500	8/24/17 20:00	25246-1.RAW	20:00:36	373.12	2		373.1	0.799	399.411	ng/L	
Hg2700-1	DM2	SAM	F708477-MSD2	500	8/24/17 20:11	25247-1.RAW	20:11:07	288.46	2		288.5	0.617	308.677	ng/L	
Hg2700-1	DM2	SAM	1708151-24	500	8/24/17 20:21	25248-1.RAW	20:21:37	23.79	2		23.8	0.050	24.995	ng/L	
Hg2700-1	DM2	SAM	1708151-25	500	8/24/17 20:32	25249-1.RAW	20:32:08	53.86	2		53.9	0.114	57.224	ng/L	
Hg2700-1	DM2	SAM	1708151-26	500	8/24/17 20:42	25250-1.RAW	20:42:39	15.90	2		15.9	0.033	16.538	ng/L	
Hg2700-1	DM2	SAM	1708151-27	500	8/24/17 20:53	25251-1.RAW	20:53:09	27.64	2		27.6	0.058	29.122	ng/L	
Hg2700-1	DM2	SAM	1708151-28	500	8/24/17 21:03	25252-1.RAW	21:03:40	4.19	2		4.2	0.008	3.993	ng/L	
Hg2700-1	DM2	SAM	1708151-29	500	8/24/17 21:14	25253-1.RAW	21:14:11	37.95	2		37.9	0.080	40.171	ng/L	
Hg2700-1	DM2	SAM	1708151-30	500	8/24/17 21:24	25254-1.RAW	21:24:42	35.41	2		35.4	0.075	37.450	ng/L	
Hg2700-1	DM2	SAM	1708151-31	500	8/24/17 21:35	25255-1.RAW	21:35:12	33.71	2		33.7	0.071	35.624	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV5	1	8/24/17 21:45	25256-1.RAW	21:45:43	191.38			191.4	0.410	0.410	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB5	1	8/24/17 21:56	25257-1.RAW	21:56:14	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708151-32	500	8/24/17 22:06	25258-1.RAW	22:06:44	38.24	2		38.2	0.081	40.484	ng/L	
Hg2700-1	DM2	SAM	1708154-01	500	8/24/17 22:17	25259-1.RAW	22:17:15	40.13	2		40.1	0.085	42.512	ng/L	
Hg2700-1	DM2	SAM	1708154-02	500	8/24/17 22:27	25260-1.RAW	22:27:46	71.55	2		71.6	0.152	76.187	ng/L	
Hg2700-1	DM2	SAM	1708154-03	500	8/24/17 22:38	25261-1.RAW	22:38:16	34.53	2		34.5	0.073	36.508	ng/L	
Hg2700-1	DM2	SAM	1708154-04	500	8/24/17 22:48	25262-1.RAW	22:48:47	84.64	2		84.6	0.180	90.215	ng/L	
Hg2700-1	DM2	SAM	1708154-05	500	8/24/17 22:59	25263-1.RAW	22:59:18	76.84	2		76.8	0.164	81.859	ng/L	
Hg2700-1	DM2	SAM	1708154-06	500	8/24/17 23:09	25264-1.RAW	23:09:48	73.28	2		73.3	0.156	78.040	ng/L	
Hg2700-1	DM2	SAM	1708155-01	500	8/24/17 23:20	25265-1.RAW	23:20:19	57.05	2		57.0	0.121	60.641	ng/L	
Hg2700-1	DM2	SAM	1708155-02	500	8/24/17 23:30	25266-1.RAW	23:30:50	44.08	2		44.1	0.093	46.738	ng/L	
Hg2700-1	DM2	SAM	1708155-03	500	8/24/17 23:41	25267-1.RAW	23:41:20	85.37	2		85.4	0.182	91.001	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV6	1	8/24/17 23:51	25268-1.RAW	23:51:51	187.69			187.7	0.402	0.402	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB6	1	8/24/17 0:02	25269-1.RAW	0:02:22	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708155-04	500	8/24/17 0:12	25270-1.RAW	0:12:52	73.08	2		73.1	0.156	77.820	ng/L	
Hg2700-1	DM2	SAM	1708155-05	500	8/24/17 0:23	25271-1.RAW	0:23:23	37.91	2		37.9	0.080	40.131	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV7	1	8/24/17 0:33	25272-1.RAW	0:33:54	232.53			232.5	0.498	0.498	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB7	1	8/24/17 0:44	25273-1.RAW	0:44:24	0.00			0.0	0.000	0.000	ng/L	

## ANALYSIS SEQUENCE

7H25003

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/24/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H25003-IBL1 ✓	QC	1			
7H25003-CAL1 ✓	QC	2	1704180		
7H25003-CAL2 ✓	QC	3	1704181 ✓		
7H25003-CAL3 ✓	QC	4	1704182 ✓		
7H25003-CAL4 ✓	QC	5	1704183 ✓		
7H25003-CAL5 ✓	QC	6	1704184 ✓		
7H25003-ICV1 ✓	QC	7	1705084		
7H25003-ICB1 ✓	QC	8			
F708475-BLK1 ✓	QC	9			
F708475-BLK2 ✓	QC	10			
F708475-BLK3 ✓	QC	11			
F708475-BS1 ✓	QC	12			
F708475-BSD1 ✓	QC	13			
F708475-DUP1 ✓	QC	14			
F708475-MS1 ✓	QC	15			
F708475-MSD1 ✓	QC	16			
F708475-MS2 ✓	QC	17			
F708475-MSD2 ✓	QC	18			
7H25003-CCV1 ✓	QC	19	1705084 ✓		
7H25003-CCB1 ✓	QC	20			
1708151-04 ✓	MHg-CVAFS-S-KOH	21			
1708151-05 ✓	MHg-CVAFS-S-KOH	22			
1708151-06 ✓	MHg-CVAFS-S-KOH	23			
1708151-07 ✓	MHg-CVAFS-S-KOH	24			
1708151-08 ✓	MHg-CVAFS-S-KOH	25			
1708151-09 ✓	MHg-CVAFS-S-KOH	26			
1708151-10 ✓	MHg-CVAFS-S-KOH	27			
1708151-11 ✓	MHg-CVAFS-S-KOH	28			
1708151-12 ✓	MHg-CVAFS-S-KOH	29			
1708151-13 ✓	MHg-CVAFS-S-KOH	30			
7H25003-CCV2 ✓	QC	31	1705084		
7H25003-CCB2 ✓	QC	32			
1708151-14 ✓	MHg-CVAFS-S-KOH	33			
1708151-15 ✓	MHg-CVAFS-S-KOH	34			
1708151-16 ✓	MHg-CVAFS-S-KOH	35			

Due Date: 9/5/2017

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## ANALYSIS SEQUENCE

7H25003

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/24/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708151-17 ✓	MHg-CVAFS-S-KOH	36			
1708151-18 ✓	MHg-CVAFS-S-KOH	37			
1708151-19 ✓	MHg-CVAFS-S-KOH	38			
1708151-20 ✓	MHg-CVAFS-S-KOH	39			
1708151-21 ✓	MHg-CVAFS-S-KOH	40			
1708151-22 ✓	MHg-CVAFS-S-KOH	41			
1708151-23 ✓	MHg-CVAFS-S-KOH	42			
7H25003-CCV3 ✓	QC	43	1705084	✓	
7H25003-CCB3 ✓	QC	44			
F708475-BS2 ✓	QC	45			
F708475-BSD2 ✓	QC	46			
F708477-BLK1 ✓	QC	47			
F708477-BLK2 ✓	QC	48			
F708477-BLK3 ✓	QC	49			
F708477-BS1 ✓	QC	50			
F708477-BSD1 ✓	QC	51			
F708477-DUP1 ✓	QC	52			
F708477-MS1 ✓	QC	53			
F708477-MSD1 ✓	QC	54			
7H25003-CCV4 ✓	QC	55	1705084	✓	
7H25003-CCB4 ✓	QC	56			
F708477-MS2 ✓	QC	57			
F708477-MSD2 ✓	QC	58			
1708151-24 ✓	MHg-CVAFS-S-KOH	59			
1708151-25 ✓	MHg-CVAFS-S-KOH	60			
1708151-26 ✓	MHg-CVAFS-S-KOH	61			
1708151-27 ✓	MHg-CVAFS-S-KOH	62			
1708151-28 ✓	MHg-CVAFS-S-KOH	63			
1708151-29 ✓	MHg-CVAFS-S-KOH	64			
1708151-30 ✓	MHg-CVAFS-S-KOH	65			
1708151-31 ✓	MHg-CVAFS-S-KOH	66			
7H25003-CCV5 ✓	QC	67	1705084	✓	
7H25003-CCB5 ✓	QC	68			
1708151-32 ✓	MHg-CVAFS-S-KOH	69			
1708154-01 ✓	MHg-CVAFS-S-KOH	70			

Due Date: 9/5/2017

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**ANALYSIS SEQUENCE**

**7H25003**

**Instrument: Hg2700-1**

**Calibration ID: UNASSIGNED**

**Analyzed: 8/24/2017**

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708154-02 ✓	MHg-CVAFS-S-KOH	71			
1708154-03 ✓	MHg-CVAFS-S-KOH	72			
1708154-04 ✓	MHg-CVAFS-S-KOH	73			
1708154-05 ✓	MHg-CVAFS-S-KOH	74			
1708154-06 ✓	MHg-CVAFS-S-KOH	75			
1708155-01 ✓	MHg-CVAFS-S-KOH	76			
1708155-02 ✓	MHg-CVAFS-S-KOH	77			
1708155-03 ✓	MHg-CVAFS-S-KOH	78			
7H25003-CCV6 ✓	QC	79	1705084	✓	
7H25003-CCB6 ✓	QC	80			
1708155-04 ✓	MHg-CVAFS-S-KOH	81			
1708155-05 ✓	MHg-CVAFS-S-KOH	82			
7H25003-CCV7 ✓	QC	83	1705084	✓	
7H25003-CCB7 ✓	QC	84			

Den Moxam      8/24/17  
 Samples Loaded By      Date

Den Moxam      8/25/17  
 Data Processed By      Date

**PREPARATION BENCH SHEET**

F708477

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/18/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708477-BLK1	Blank	0.25	20					
F708477-BLK2	Blank	0.25	20					
F708477-BLK3	Blank	0.25	20					
F708477-BS1	LCS	0.1313	20	1703305	131.3			
F708477-BSD1	LCS Dup	0.1327	20	1703305	132.7			
F708477-DUP1	Duplicate [1708154-02]	0.269	20					
F708477-MS1	Matrix Spike [1708154-02]	0.294	20	1605978	100			
F708477-MS2	Matrix Spike [1708155-05]	0.257	20	1605978	100			
F708477-MSD1	Matrix Spike Dup [1708154-02]	0.296	20	1605978	100			
F708477-MSD2	Matrix Spike Dup [1708155-05]	0.291	20	1605978	100			

<u>Standard ID(s):</u>	<u>Description:</u>
1605978	MHg New Primary 100 ng/mL spike
1703305	DORM-4

<u>Expiration:</u>
15-Oct-17 00:00
29-May-20 00:00
29-May-20 00:00

<u>Reagent ID(s):</u>	<u>Description:</u>
1606119	Methanol, HPLC Grade
1704399	Ethylating Agent (For Methyl Mercury Analysis)
1704424	Boiling Chips for AFS prep
1704707	Acetate Buffer
1705052	25% KOH/Methanol

<u>Expiration:</u>
17-Oct-19 00:00
16-Jan-18 00:00
21-Jan-18 00:00
29-Jan-18 00:00
18-Feb-18 00:00



**PREPARATION BENCH SHEET**

F708477

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/18/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-24	W-MM-10_080117_SED_01-03	0.261	20	-	-	-		
1708151-25	W-MM-15_080117_SED_00-01	0.29	20	-	-	-		
1708151-26	W-MM-15_080117_SED_01-03	0.292	20	-	-	-		
1708151-27	W-MM-16_080117_SED_00-01	0.285	20	-	-	-		
1708151-28	W-MM-16_080117_SED_01-03	0.292	20	-	-	-		
1708151-29	W-MM-20_080117_SED_00-01	0.269	20	-	-	-		
1708151-30	W-MM-20_080117_SED_01-03	0.272	20	-	-	-	Original jar broken, transferred sample	
1708151-31	W-MM-21_080117_SED_00-01	0.275	20	-	-	-		
1708151-32	W-MM-21_080117_SED_01-03	0.277	20	-	-	-		
1708154-01	W-21-UM-South_080117_SED_00-01	0.287	20	-	-	-		
1708154-02	W-21-UM-South_080117_SED_01-03	0.28	20	QC	-	-	MS/MSD	
1708154-03	W-63-Low_080117_SED_00-01_R1	0.308	20	-	-	-		
1708154-04	W-63-Low_080117_SED_00-01_R2	0.272	20	-	-	-		
1708154-05	W-63-Low_080117_SED_00-01_R3	0.258	20	-	-	-		
1708154-06	W-63-Low_080117_SED_01-03	0.285	20	-	-	-	Original jar broken, transferred sample	
1708155-01	ES-02E_080117_SED_00-01	0.273	20	-	-	-	Original jar broken, transferred sample	
1708155-02	ES-02E_080117_SED_01-03	0.276	20	-	-	-		
1708155-03	OB-05_080117_SED_00-01	0.28	20	-	-	-		
1708155-04	OB-05_080117_SED_01-03	0.287	20	-	-	-	Original jar broken, transferred sample	

PREPARATION BENCH SHEET

F708477

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

1708155-05	OR-02-03_080117_SED_00-01	0.289	20	QC	-	-	MS/MSD	
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PREPARATION BENCH SHEET

2700-1  
8/24/17 DM

F708477

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708477-BLK1	Blank	0.25	20					500X
F708477-BLK2	Blank	0.25	20					500X
F708477-BLK3	Blank	0.25	20					500X
F708477-BS1	LCS	0.1313	20	1703305	131.3			1000X
F708477-BSD1	LCS Dup	0.1327	20	1703305	132.7			1000X
F708477-DUP1	Duplicate [1708154-02]	0.269	20					500X
F708477-MS1	Matrix Spike [1708154-02]	0.294	20	1605978	100			500X
F708477-MS2	Matrix Spike [1708155-05]	0.257	20	1605978	100			500X
F708477-MSD1	Matrix Spike Dup [1708154-02]	0.296	20	1605978	100			500X
F708477-MSD2	Matrix Spike Dup [1708155-05]	0.291	20	1605978	100			500X

Standard ID(s):  
1605978  
1703305

Description:  
MHg New Primary 100 ng/mL spike  
DORM-4

Expiration:  
15-Oct-17 00:00  
29-May-20 00:00  
29-May-20 00:00

Reagent ID(s):  
1606119  
1704424  
1705052

Description:  
Methanol, HPLC Grade  
Boiling Chips for AFS prep  
25% KOH/Methanol

Expiration:  
17-Oct-19 00:00  
21-Jan-18 00:00  
18-Feb-18 00:00

1704309  
1704707

PREPARATION BENCH SHEET

2700-1  
5/24/17 DM

F708477

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-24	W-MM-10_080117_SED_01-03	0.261	20	-	-	-		500X
1708151-25	W-MM-15_080117_SED_00-01	0.29	20	-	-	-		500X
1708151-26	W-MM-15_080117_SED_01-03	0.292	20	-	-	-		500X
1708151-27	W-MM-16_080117_SED_00-01	0.285	20	-	-	-		500X
1708151-28	W-MM-16_080117_SED_01-03	0.292	20	-	-	-		500X
1708151-29	W-MM-20_080117_SED_00-01	0.269	20	-	-	-		500X
1708151-30	W-MM-20_080117_SED_01-03	0.272	20	-	-	-	Original jar broken, transferred sample	500X
1708151-31	W-MM-21_080117_SED_00-01	0.275	20	-	-	-		500X
1708151-32	W-MM-21_080117_SED_01-03	0.277	20	-	-	-		500X
1708154-01	W-21-UM-South_080117_SED_00-01	0.287	20	-	-	-		500X
1708154-02	W-21-UM-South_080117_SED_01-03	0.28	20	QC	-	-	MS/MSD	500X
1708154-03	W-63-Low_080117_SED_00-01_R1	0.308	20	-	-	-		500X
1708154-04	W-63-Low_080117_SED_00-01_R2	0.272	20	-	-	-		500X
1708154-05	W-63-Low_080117_SED_00-01_R3	0.258	20	-	-	-		500X
1708154-06	W-63-Low_080117_SED_01-03	0.285	20	-	-	-	Original jar broken, transferred sample	500X
1708155-01	ES-02E_080117_SED_00-01	0.273	20	-	-	-	Original jar broken, transferred sample	500X
1708155-02	ES-02E_080117_SED_01-03	0.276	20	-	-	-		500X
1708155-03	OB-05_080117_SED_00-01	0.28	20	-	-	-		500X
1708155-04	OB-05_080117_SED_01-03	0.287	20	-	-	-	Original jar broken, transferred sample	500X

Due Date: 9/5/2017

PREPARATION BENCH SHEET

2700-1

8/24/17 DM

F708477

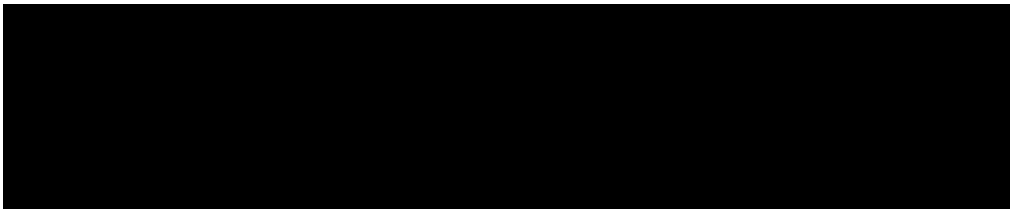
Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

1708155-05	OR-02-03_080117_SED_00-01	0.289	20	QC	-	-	MS/MSD	500x
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Technician: WLF Batch#: F708477 Date: 8/23/17

- EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: \_\_\_\_\_ Vial Type:  Glass  Teflon  
 Balance#: 10/20(DORM-4) Calibrated?  Yes  No Therm.#: 146418015 Calibrated?  Yes  No  
 \*Time in: 15:20 Actual Temp. (raw): 73.6 °C w/ CF: 73.6 °C  
 Time out: 18:20 Actual Temp. (raw): 81.7 °C w/ CF: 81.8 °C  
 \*Time in can't begin before target temperature is reached

Final vol.: 20 mL (LIMS ID: 1606119) Spike vol.: 100 µL (LIMS ID: 1605978)  
 Spike Witness: CME 8/23/17 (initial and date)

HCl LIMS ID: N/A Pipette SN#: NU09653 Calibration Date: 8/17/17  
 HNO<sub>3</sub> LIMS ID: N/A Pipette SN#: NU01152 Calibration Date: 8/22/17  
 70/30 LIMS ID: N/A Dispenser #: 02N48426 Calibrated?  Yes  No  
 Other Acid LIMS ID: KOH/methanol = 1709052 Dispenser #: N/A  
 Glass Vial # 00068124 Boiling Chip lot # 1704424 \*Hotblock Position: N5

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	CRM LIMS ID <input type="checkbox"/> NA
1	F708477 - Blk1	0.267	23	1708154 - 06	0.285	BS1/BSDI = DORM-4 LIMS = 1703305
2	F708477 - Blk2	0.294	24	1708155 - 01	0.273	
3	F708477 - Blk3	0.263	25	1708155 - 02	0.276	
4	F708477 - BS1	0.313	26	1708155 - 03	0.280	Comments
5	F708477 - BSDI	0.1327	27	1708155 - 04	0.287	DUP1, MS1, MSD1
6	1708151 - 24	0.261	28	1708155 - 05	0.289	source = 1708154-02
7	1708151 - 25	0.290	29	<del>1708155 - 06</del>		MS2, MSD2
8	1708151 - 26	0.292	30	F708477 - MS2	0.257	source = 1708155-05
9	1708151 - 27	0.285	31	F708477 - MSD2	0.291	BS1/BSDI DORM-4
10	1708151 - 28	0.294	32			weighed out on scale 20.
11	1708151 - 29	0.269	33			
12	1708151 - 30	0.272	34			
13	1708151 - 31	0.275	35			
14	1708151 - 32	0.277	36			
15	1708154 - 01	0.287	37			
16	1708154 - 02	0.280	38			
17	F708477 - DUP1	0.269	39			
18	F708477 - MS1	0.294	40			
19	F708477 - MSD1	0.296	41			
20	1708154 - 03	0.308	42			
21	1708154 - 04	0.272	43			
22	1708154 - 05	0.258	44			

**PREPARATION BENCH SHEET**

F708475

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/18/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708475-BLK1	Blank	0.25	20					
F708475-BLK2	Blank	0.25	20					
F708475-BLK3	Blank	0.25	20					
F708475-BS1	LCS	0.1266	20	1703305	126.6			
F708475-BS2	LCS	0.1266	20	1703305	126.6			
F708475-BSD1	LCS Dup	0.1308	20	1703305	130.8			
F708475-BSD2	LCS Dup	0.1308	20	1703305	130.8			
F708475-DUP1	Duplicate [1708151-04]	0.259	20					
F708475-MS1	Matrix Spike [1708151-04]	0.262	20	1605978	100			
F708475-MS2	Matrix Spike [1708151-22]	0.275	20	1605978	100			
F708475-MSD1	Matrix Spike Dup [1708151-04]	0.259	20	1605978	100			
F708475-MSD2	Matrix Spike Dup [1708151-22]	0.267	20	1605978	100			

Standard ID(s):  
1605978  
1703305

Description:  
MHg New Primary 100 ng/mL spike  
DORM-4

Expiration:  
15-Oct-17 00:00  
29-May-20 00:00  
29-May-20 00:00

Reagent ID(s):  
1606119  
1704399  
1704424  
1704707  
1705052

Description:  
Methanol, HPLC Grade  
Ethylating Agent (For Methyl Mercury Analysis)  
Boiling Chips for AFS prep  
Acetate Buffer  
25% KOH/Methanol

Expiration:  
17-Oct-19 00:00  
16-Jan-18 00:00  
21-Jan-18 00:00  
29-Jan-18 00:00  
18-Feb-18 00:00

**PREPARATION BENCH SHEET**

F708475

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/18/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-04	W-101-INTA_080117_SED_01-03_R1	0.26	20	-	-	-		
1708151-05	W-101-INTA_080117_SED_01-03_R2	0.295	20	-	-	-		
1708151-06	W-101-INTA_080117_SED_01-03_R3	0.277	20	-	-	-		
1708151-07	W-104-B_080117_SED_00-01	0.25	20	-	-	-		
1708151-08	W-104-B_080117_SED_01-03	0.266	20	-	-	-	Original jar broken, transferred sample	
1708151-09	W-104-INTB_080117_SED_00-01	0.268	20	-	-	-	Original jar broken, transferred sample	
1708151-10	W-104-INTB_080117_SED_01-03	0.256	20	-	-	-	Original jar broken, transferred sample	
1708151-11	W-106-A_080117_SED_00-01	0.282	20	-	-	-		
1708151-12	W-106-A_080117_SED_01-03	0.295	20	-	-	-		
1708151-13	W-107-A_080117_SED_00-01	0.255	20	-	-	-		
1708151-14	W-107-A_080117_SED_01-03	0.259	20	-	-	-		
1708151-15	W-109-A_080117_SED_00-01	0.289	20	-	-	-		
1708151-16	W-109-A_080117_SED_01-03	0.261	20	-	-	-		
1708151-17	W-110-A_080117_SED_00-01_R1	0.276	20	-	-	-		
1708151-18	W-110-A_080117_SED_00-01_R2	0.285	20	-	-	-		
1708151-19	W-110-A_080117_SED_00-01_R3	0.282	20	-	-	-		
1708151-20	W-110-A_080117_SED_01-03	0.256	20	-	-	-		
1708151-21	W-MM-09_080117_SED_00-01	0.267	20	-	-	-		
1708151-22	W-MM-09_080117_SED_01-03	0.299	20	QC	-	-	MS/MSD	

Due Date: 9/5/2017



PREPARATION BENCH SHEET

F708475

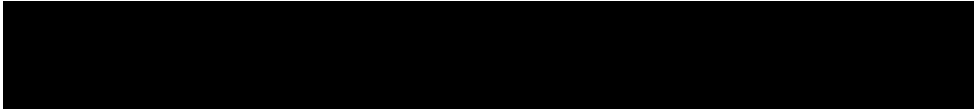
Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

1708151-23	W-MM-10_080117_SED_00-01	0.253	20	-	-	-		
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PREPARATION BENCH SHEET

2700-1  
8/24/17 DM

F708475

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708475-BLK1	Blank	0.25	20					500x
F708475-BLK2	Blank	0.25	20					500x
F708475-BLK3	Blank	0.25	20					500x
F708475-BS1	LCS	0.1266	20	1703305	126.6			1000x
F708475-BSD1	LCS Dup	0.1308	20	1703305	130.8			1000x
F708475-DUP1	Duplicate [1708151-04]	0.259	20					500x
F708475-MS1	Matrix Spike [1708151-04]	0.262	20	1605978	100			500x
F708475-MS2	Matrix Spike [1708151-22]	0.275	20	1605978	100			500x
F708475-MSD1	Matrix Spike Dup [1708151-04]	0.259	20	1605978	100			500x
F708475-MSD2	Matrix Spike Dup [1708151-22]	0.276	20	1605978	100			500x

0.267

Standard ID(s):  
1605978  
1703305

Description:  
MHg New Primary 100 ng/mL spike  
DORM-4

Expiration:  
15-Oct-17 00:00  
29-May-20 00:00  
29-May-20 00:00

Reagent ID(s):  
1606119  
1704424  
1705052

Description:  
Methanol, HPLC Grade  
Boiling Chips for AFS prep  
25% KOH/Methanol

Expiration:  
17-Oct-19 00:00  
21-Jan-18 00:00  
18-Feb-18 00:00

B52, B5D2 - re-run of B51, B5D1

1704399

1704707

PREPARATION BENCH SHEET

F708475

Eurofins Frontier Global Sciences, Inc.

2700-1

8/24/17 DM

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-04	W-101-INTA_080117_SED_01-03_R1	0.26	20	-	-	-		
1708151-05	W-101-INTA_080117_SED_01-03_R2	0.295	20	-	-	-		500X
1708151-06	W-101-INTA_080117_SED_01-03_R3	0.277	20	-	-	-		500X
1708151-07	W-104-B_080117_SED_00-01	0.25	20	-	-	-		500X
1708151-08	W-104-B_080117_SED_01-03	0.266	20	-	-	-	Original jar broken, transferred sample	500X
1708151-09	W-104-INTB_080117_SED_00-01	0.268	20	-	-	-	Original jar broken, transferred sample	500X
1708151-10	W-104-INTB_080117_SED_01-03	0.256	20	-	-	-	Original jar broken, transferred sample	500X
1708151-11	W-106-A_080117_SED_00-01	0.282	20	-	-	-		500X
1708151-12	W-106-A_080117_SED_01-03	0.295	20	-	-	-		500X
1708151-13	W-107-A_080117_SED_00-01	0.255	20	-	-	-		500X
1708151-14	W-107-A_080117_SED_01-03	0.259	20	-	-	-		500X
1708151-15	W-109-A_080117_SED_00-01	0.289	20	-	-	-		500X
1708151-16	W-109-A_080117_SED_01-03	0.261	20	-	-	-		500X
1708151-17	W-110-A_080117_SED_00-01_R1	0.276	20	-	-	-		500X
1708151-18	W-110-A_080117_SED_00-01_R2	0.285	20	-	-	-		500X
1708151-19	W-110-A_080117_SED_00-01_R3	0.282	20	-	-	-		500X
1708151-20	W-110-A_080117_SED_01-03	0.256	20	-	-	-		500X
1708151-21	W-MM-09_080117_SED_00-01	0.267	20	-	-	-		500X
1708151-22	W-MM-09_080117_SED_01-03	0.299	20	QC	-	-	MS/MSD	500X

Due Date: 9/5/2017

PREPARATION BENCH SHEET

2700-1  
8/24/17 DM

F708475

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

1708151-23	W-MM-10_080117_SED_00-01	0.253	20	-	-	-		527x
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Technician: W.F. Batch#: 708475 Date: 8/23/17

- EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: \_\_\_\_\_  
 Balance#: 10/20 DORM-4 Calibrated?  Yes  No Therm.#: 140418015 Vial Type:  Glass  Teflon  
 Calibrated?  Yes  No  
 \*Time in: 15:20 Actual Temp. (raw): 73.6 °C w/ CF: 73.6 °C  
 Time out: 18:20 Actual Temp. (raw): 81.7 °C w/ CF: 81.6 °C  
 \*Time in can't begin before target temperature is reached

Final vol.: 20 mL (LIMS ID: 160611a) Spike vol.: 100 µL (LIMS ID: 1605978)  
 Spike Witness: CME 8/23/17 (initial and date)

HCl LIMS ID: N/A Pipette SN#: NU09653 Calibration Date: 8/17/17  
 HNO<sub>3</sub> LIMS ID: N/A Pipette SN#: NU01152 Calibration Date: 8/22/17  
 70/30 LIMS ID: N/A Dispenser #: 02N48426 Calibrated?  Yes  No  
 Other Acid LIMS ID: KOH/methanol = 1705052 Dispenser #: N/A  
 Glass Vial # 00068124 Boiling Chip lot # 1704424 \*Hotblock Position: N5

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	CRM LIMS ID <input type="checkbox"/> NA
1	F708475 - Blue1	0.270	23	1708151 - 18	0.285	BSI/BSDI = DORM-4 LIMS = 1703305
2	F708475 - Blue2	0.257	24	1708151 - 19	0.282	
3	F708475 - Blue3	0.273	25	1708151 - 20	0.256	
4	F708475 - BSI	0.1266	26	1708151 - 21	0.267	Comments
5	F708475 - BSDI	0.1308	27	1708151 - 22	0.299	DUP1, MS1, MSD1
6	1708151 - 04	0.260	28	F708475 - MS2	0.275	source = 1708151-04
7	F708475 - DUP1	0.259	29	F708475 - MSD2	0.267	MS2, MSD2
8	F708475 - MS1	0.262	30	1708151 - 23	0.253	source = 1708151-22
9	F708475 - MSD1	0.259	31			BSI/BSDI DORM-4 weighed out using scale 20.  W.F. 8/23/17 W.F. 8/24/17
10	1708151 - 05	0.295	32			
11	1708151 - 06	0.277	33			
12	1708151 - 07	0.250	34			
13	1708151 - 08	0.266	35			
14	1708151 - 09	0.268	36			
15	1708151 - 10	0.256	37			
16	1708151 - 11	0.282	38			
17	1708151 - 12	0.295	39			
18	1708151 - 13	0.259	40			
19	1708151 - 14	0.259	41			
20	1708151 - 15	0.289	42			
21	1708151 - 16	0.261	43			
22	1708151 - 17	0.276	44			

# Failing Data Report - 7H25003

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
F708475-BS1	MHg-CVAFS-S-KOH	202.9	7.9			330.28	ng/g	61.4	70.00	130.00			PASS-OVER	FAIL-BS	<i>E708475</i>
F708475-BSD1	MHg-CVAFS-S-KOH	213.1	7.6	202.9		330.28	ng/g	64.5	70.00	130.00	4.87	25.00	PASS-OVER	FAIL-BSD (Rec.)	<i>pedicant</i>
F708475-MS1	MHg-CVAFS-S-KOH	25.1	1.9		3.4	38.206	ng/g	56.7	65.00	130.00			PASS-OVER	FAIL-MS	<i>QM-07</i>
F708475-MSD1	MHg-CVAFS-S-KOH	25.5	1.9	25.1	3.4	38.649	ng/g	57.1	65.00	130.00	0.642	35.00	PASS-OVER	FAIL-MSD (Rec.)	<i>QM-07</i>
F708475-BS2	MHg-CVAFS-S-KOH	170.1	7.9			330.28	ng/g	51.5	70.00	130.00			PASS-OVER	FAIL-BS	
F708475-BSD2	MHg-CVAFS-S-KOH	176.7	7.6	170.1		330.28	ng/g	53.5	70.00	130.00	3.81	25.00	PASS-OVER	FAIL-BSD (Rec.)	
F708477-BS1	MHg-CVAFS-S-KOH	184.0	7.6			330.28	ng/g	55.7	70.00	130.00			PASS-OVER	FAIL-BS	
F708477-BSD1	MHg-CVAFS-S-KOH	184.1	7.5	184.0		330.28	ng/g	55.7	70.00	130.00	0.0633	25.00	PASS-OVER	FAIL-BSD (Rec.)	<i>BR with E708477</i>
F708477-MS1	MHg-CVAFS-S-KOH	27.1	1.7		5.4	34.048	ng/g	63.7	65.00	130.00			PASS-OVER	FAIL-MS	<i>QM-07</i>
F708477-MSD1	MHg-CVAFS-S-KOH	42.7	1.7	27.1	5.4	33.818	ng/g	110	65.00	130.00	53.4	35.00	PASS-OVER	FAIL-MSD (RPD)	<i>QM-07, QR-08</i>
F708477-MSD2	MHg-CVAFS-S-KOH	21.2	1.7	31.1	2.8	34.399	ng/g	53.6	65.00	130.00	30.2	35.00	PASS-OVER	FAIL-MSD (Rec.)	<i>QM-07</i>

*Don Moran*  
 Analyst Reviewed By \_\_\_\_\_  
 Date *8/25/17*

*PLU*  
 Peer Reviewed By \_\_\_\_\_  
 Date *9/4/17*

**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b> DON MORAN	<b>Sequence #:</b> 7H25003
<b>Reviewer:</b> <i>A 9/4/18</i>	<b>Dataset ID #:</b> MMHG27001-170824-1
<b>Date:</b> 8.25.17	<b>WO #:</b> 1708151, 1708154, 1708155
<b>Batch #(s):</b> F708477, F708475	<b>Client(s):</b> AMEC FOSTER WHEELER

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input type="checkbox"/> MHg	SOP2797 MHg Distillation	Water
<input checked="" type="checkbox"/> MHg	SOP2986 KOH/MeOH Digest	Tissue
<input type="checkbox"/> MHg	SOP5134 MeCl Extraction	Sed/Soil
<input type="checkbox"/> DMHg	SOP2816 (None Accredited method)	ALL

Analyst Initials:

*DM*

Reviewer Initials:

*A 9/4/18*

1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
2. Check for transcription errors from Excel spreadsheet (or Prep Bench sheet)/Raw data	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(a) Reviewer: 100% of peak heights checked	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(b) Are there peak height errors?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(c) Error on a sample: Do peak heights, responses, & initial results match corrected data?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
(d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
(e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries).	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
(f) Check and compare masses (review prep bench sheet)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
(g) Check and compare initial and final volumes	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
(h) Do aliquots and dilutions written on benchsheet match those in Excel?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
(i) Is the pH>3.0 for all distilled samples?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
(j) Is the sequence #, analyst, date, and instrument # on the QC page?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(k) Is the analysis status correct? (analyzed/initial review/reviewed)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(l) Original prep bench sheet added to data package?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
3. High QA? WO#(s)/Client(s): _____	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/>
4. Client specific QC? (if Yes, refer to Project Notes/LIMS)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(a) Have the QC requirements been met for all WO#s?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
5. 20 or fewer samples in batch? _____	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(a) 3 PBs, 1 LCS/LCSD (or BS/BSD), 2 MS/MSD/MD per batch?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(b) 1 CCV and 1 CCB every 10 analytical runs? _____	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
<b>QA/QC Data Checked</b>			
6. The calibration curve included a minimum of 5 Standards	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Comments: _____			
7. 1st Calibration Standard % Recoveries (65-135%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A
Comments: _____			
8. RSD CF (≤ 15%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			

**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b>	DON MORAN	<b>Sequence #:</b>	7H25003
<b>Reviewer:</b>	0 <i>a 9/4/17</i>	<b>Dataset ID #:</b>	MMHG27001-170824-1
<b>Date:</b>	8/25/2017	<b>WO #:</b>	1708151, 1708154, 1708155
<b>Batch #(s):</b>	F708477, F708475	<b>Client(s):</b>	AMEC FOSTER WHEELER

**Analyst Initials:**

*DM*

**Reviewer Initials:**

*a 9/4/17*

9. ICV % Recoveries 67-133%	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
10. CCV % Recoveries 67-133%	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
11. Are the absolute value of the ICB and CCBs < PQL?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%)	<input type="checkbox"/> PASS	<input checked="" type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: <b><i>F708475-BS1, BSD1, BS2, BSD2, F708477-BS1, BSD1 FAILED. LOW RECOVERY</i></b>			
13. LCS/LCSD or BS/BSD RPD (< 25%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
14. Water: Average of Preparation Blanks < 0.045 ng/L and standard deviation of 0.015 ng/L?	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____			
15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done)	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
17. Is the correct 'Source' designated for MD/MS/MSD?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
18. For digested preps: was there a spike witness signature & date on the prep bench sheet?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
19. MD RPD/MT RSD (< 35%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
20. Is there one set of MS/MSD per every 10 samples?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
21. MS/MSD RPD (< 35%)	<input checked="" type="checkbox"/> PASS	<input checked="" type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: <b><i>F708477-MSD1 FAILED. HIGH RPD</i></b>			
22. MS (AS) % Recoveries (65-130%)	<input checked="" type="checkbox"/> PASS	<input checked="" type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: <b><i>F708475-MS1, F708477-MS1 FAILED. LOW RECOVERY</i></b>			
23. MSD (ASD) % Recoveries (65-130%)	<input checked="" type="checkbox"/> PASS	<input checked="" type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: <b><i>F708475-MSD1, F708477-MSD2 FAILED. LOW RECOVERY</i></b>			
24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
25. Are all samples within instrument calibration range (or at maximum aliquot size)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/>
Comments: _____			
26. For instrumental dilutions, is the dilution factor in excel correct?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Is the sample volume, diluents, and final volume of the dilution noted on benchsheet?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
27. Dissolved < Total metals (if applicable)	<input type="checkbox"/> PASS	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____			
28. Effluent < Influent metals (visually confirm if needed)	<input type="checkbox"/> PASS	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____			



**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b> DON MORAN	<b>Sequence #:</b> 7H25003
<b>Reviewer:</b> 0 <i>R 9/14/17</i>	<b>Dataset ID #:</b> MMHG27001-170824-1
<b>Date:</b> 8/25/2017	<b>WO #:</b> 1708151, 1708154, 1708155
<b>Batch #(s):</b> F708477, F708475	<b>Client(s):</b> AMEC FOSTER WHEELER

**Analyst Initials:**

*DM*

**Reviewer Initials:**

*R 9/14/17*

29. Are re-runs noted with reason?  YES  NO  N/A   
 Comments: \_\_\_\_\_
30. For failing QC (CCV, CCB, PB, BS/BSD, CAL):  YES  NO  N/A   
 Was a bubbler and trap test run before the analytical run continued?  
 Comments: \_\_\_\_\_
31. Do re-run results compare to initial analysis (< 35% RPD)?  YES  NO  N/A   
 Comments: \_\_\_\_\_
32. Are qualifiers consistent with the data review flowcharts?  YES  NO  N/A   
 Comments: \_\_\_\_\_
33. Have non-reportable samples been imported into LIMS and clicked to non-reportable?  YES  NO  N/A   
 Comments: \_\_\_\_\_
34. Have re-extracts been created for non-reportable samples?  YES  NO  N/A
35. Narrations in MMO box in LIMS?  
 Comments: \_\_\_\_\_
36. Are there any HIGH QA projects within the data?  YES  NO  
 If so, place dataset to the QA office.
37. Does the data set need scanning?  YES  N/A   
Files located at: \\Cuprum\gen\_admin\Quality Assurance\Training Master\DOCs
38. Date of analyst IDOC/CDOC: 6/13/2017 IDOC/CDOC within last 12 months?  YES  NO
39. Date of analyst's SOP reading: 5/23/2016 Current SOP revision?  YES  NO
40. Date of LOD: 4/24/2017 LOD within last 3 months (within 12 months for MDN)?  YES  NO  N/A
41. Date of LOQ: 4/24/2017 LOQ within last 3 months (within 12 months for MDN)?  YES  NO  N/A
42. If MDN samples, date of last MDL study: \_\_\_\_\_
43. MDL study within last 12 months?  YES  NO  N/A
- Data can not be reported without a current IDOC/CDOC, LOD or LOQ.**
- Additional Comments:  YES  NO

MethylMercury  
EPA1630

Operat DM  
Workst MMHG2

BlankSub:  
CalibFactor:

Calib Eqn:  
Status: Calblank error: Zero Pe

Run Date: 8/24/2017  
Run Time: 0:00:00

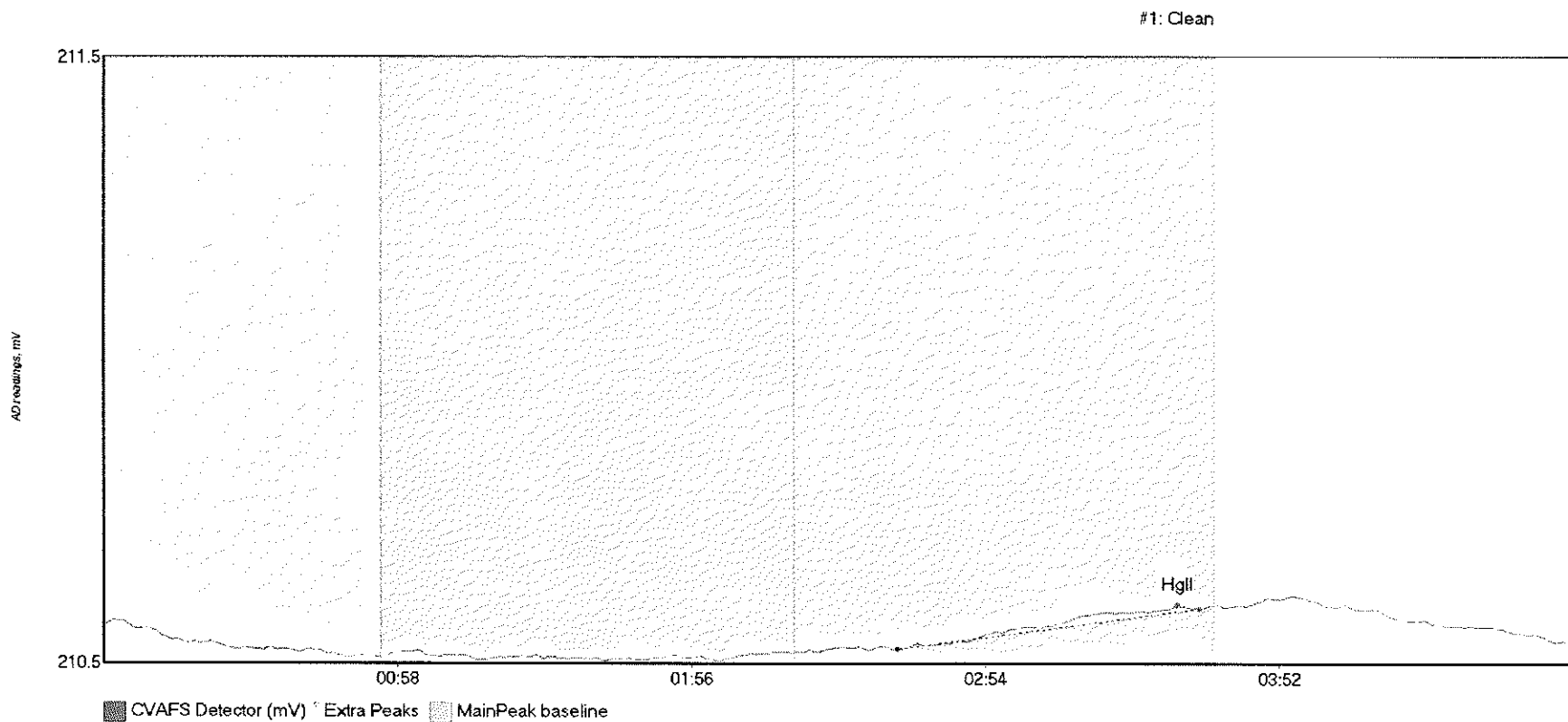
Blank SD:  
Blank RSD%:

Methoc 2010-01 R:  
Descrj: MMHG27001-170824-1

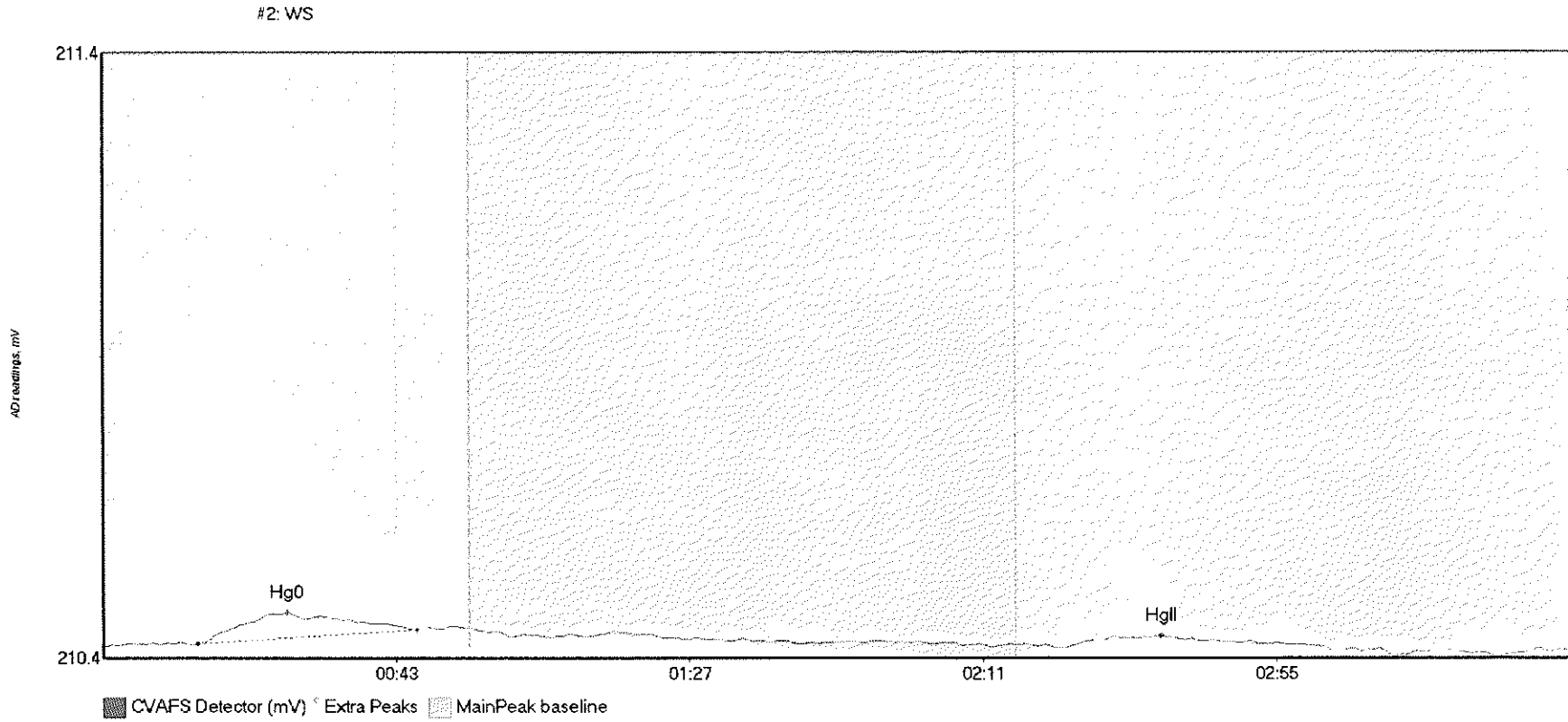
R<sup>2</sup>:  
CalibAnalyte:  
CF RSD%:

SampleID	Locabor	Rinse	Dilute	Blank	ConcHaQ	Pr ConcMethQ	ConcHaQ2	Pr ConcPrHaQ	Rec%	CA	RawData	RunEnd	PeakQ1	Raw PeakMeHq	Raw PeakQ2	Raw PeakPrHq	Control (ref)	Flags	RunCount
Clean																			
WS	A1																		
SEQ-1BL1	A2		1																
SEQ-CAL1	A3		1																
SEQ-CAL2	A4		1																
SEQ-CAL3	A5		1																
SEQ-CAL4	A6		1																
SEQ-CAL5	A7		1																
SEQ-ICV1	A8		1																
SEQ-ICB1	A9		1																
F708475-BLK1	A10		500																
F708475-BLK2	A11		500																
F708475-BLK3	A12		500																
F708475-BS1	A13		1000																
F708475-BSD1	A14		1000																
F708475-DUP1	A15		500																
F708475-MS1	A16		500																
F708475-MSD1	A17		500																
F708475-MS2	A18		500																
F708475-MSD2	A19		500																
SEQ-CCV1	A20		1																
SEQ-CCB1	A21		1																
1708151-04	B1		500																
1708151-05	B2		500																
1708151-06	B3		500																
1708151-07	B4		500																
1708151-08	B5		500																
1708151-09	B6		500																
1708151-10	B7		500																
1708151-11	B8		500																
1708151-12	B9		500																
1708151-13	B10		500																
SEQ-CCV2	B11		1																
SEQ-CCB2	B12		1																
1708151-14	B13		500																
1708151-15	B14		500																
1708151-16	B15		500																
1708151-17	B16		500																
1708151-18	B17		500																
1708151-19	B18		500																
1708151-20	B19		500																
1708151-21	B20		500																
1708151-22	B21		500																
1708151-23	C1		500																
SEQ-CCV3	C2		1																
SEQ-CCB3	C3		1																
F708475-BS2	C4		1000																
F708475-BSD2	C5		1000																
F708477-BLK1	C6		500																
F708477-BLK2	C7		500																
F708477-BLK3	C8		500																
F708477-BS1	C9		1000																
F708477-BSD1	C10		1000																
F708477-DUP1	C11		500																
F708477-MS1	C12		500																
F708477-MSD1	C13		500																
SEQ-CCV4	C14		1																
SEQ-CCB4	C15		1																
F708477-MS2	C16		500																
F708477-MSD2	C17		500																
1708151-24	C18		500																
1708151-25	C19		500																
1708151-26	C20		500																
1708151-27	C21		500																
1708151-28	A1		500																
1708151-29	A2		500																
1708151-30	A3		500																
1708151-31	A4		500																
SEQ-CCV5	A5		1																
SEQ-CCB5	A6		1																
1708151-32	A7		500																
1708154-01	A8		500																
1708154-02	A9		500																
1708154-03	A10		500																

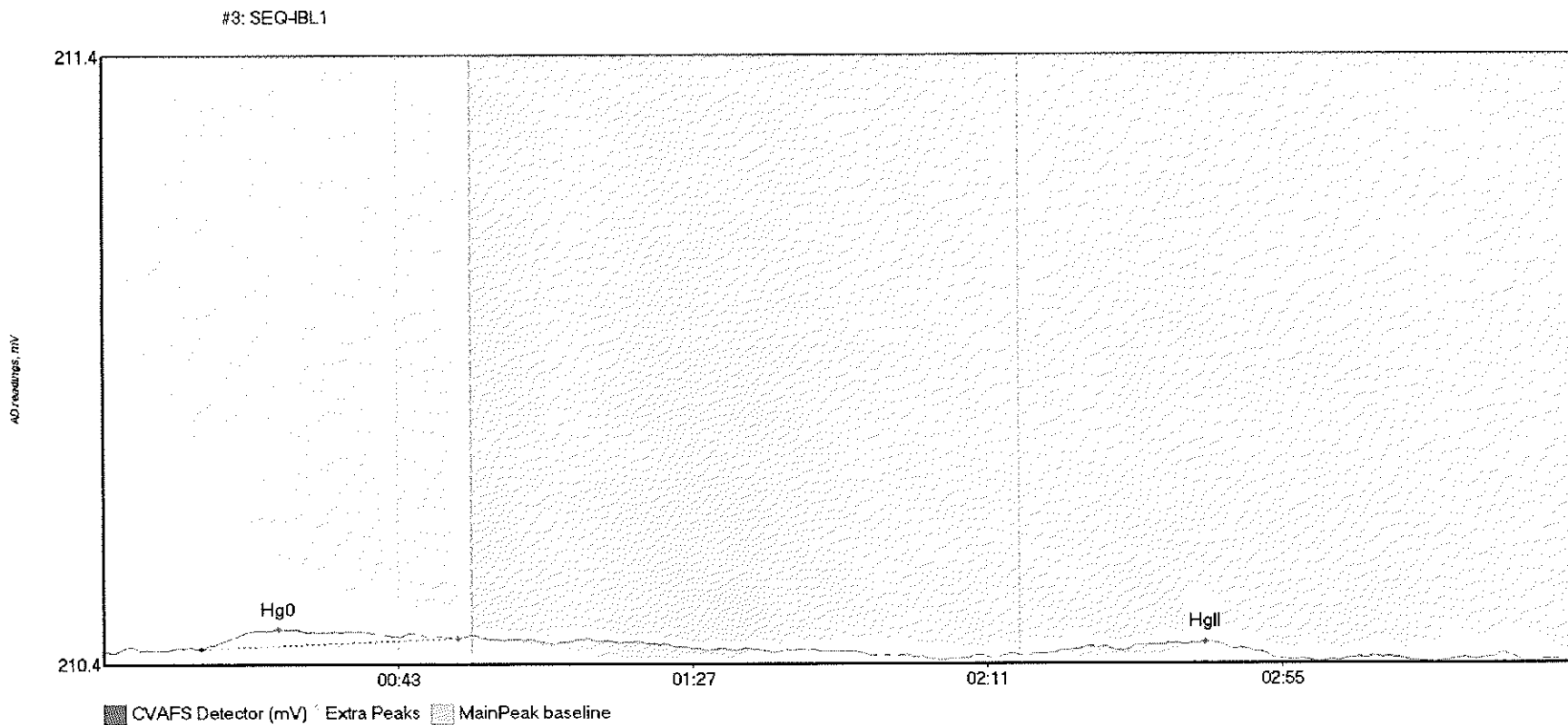
1708154-04	A11	500	25262-1.RAW	22:48:47	9.38	84.64	1455.79	0.00	psample10	CT	1
1708154-05	A12	500	25263-1.RAW	22:59:18	9.44	76.84	790.52	0.00	psample10	CT	1
1708154-06	A13	500	25264-1.RAW	23:09:48	13.66	73.28	2089.98	0.00	psample10	OK	1
1708155-01	A14	500	25265-1.RAW	23:20:19	12.83	57.05	1825.64	0.00	psample10	OK	1
1708155-02	A15	500	25266-1.RAW	23:30:50	16.16	44.08	2299.97	0.00	psample10	OK	1
1708155-03	A16	500	25267-1.RAW	23:41:20	12.42	85.37	1435.33	0.00	psample10	CT	1
SEQ-CCV6	A17	1	25268-1.RAW	23:51:51	10.31	187.69	11.13	0.00	psample10	OK	1
SEQ-CCB6	A18	1	25269-1.RAW	0:02:22	6.51	0.00	5.98	0.00	psample10	OK	1
1708155-04	A19	500	25270-1.RAW	0:12:52	9.41	73.08	1661.59	0.00	psample10	OK	1
1708155-05	A20	500	25271-1.RAW	0:23:23	12.78	37.91	1615.80	0.00	psample10	OK	1
SEQ-CCV7	A21	1	25272-1.RAW	0:33:54	4.60	232.53	12.15	0.00	psample10	OK	1
SEQ-CCB7	B1	1	25273-1.RAW	0:44:24	7.49	0.00	5.57	0.00	psample10	OK	1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
Clean	4.029	157.3	216.9	210.54	210.60	212.6	0.072	OK	210.5780	0.00	-0.03	017

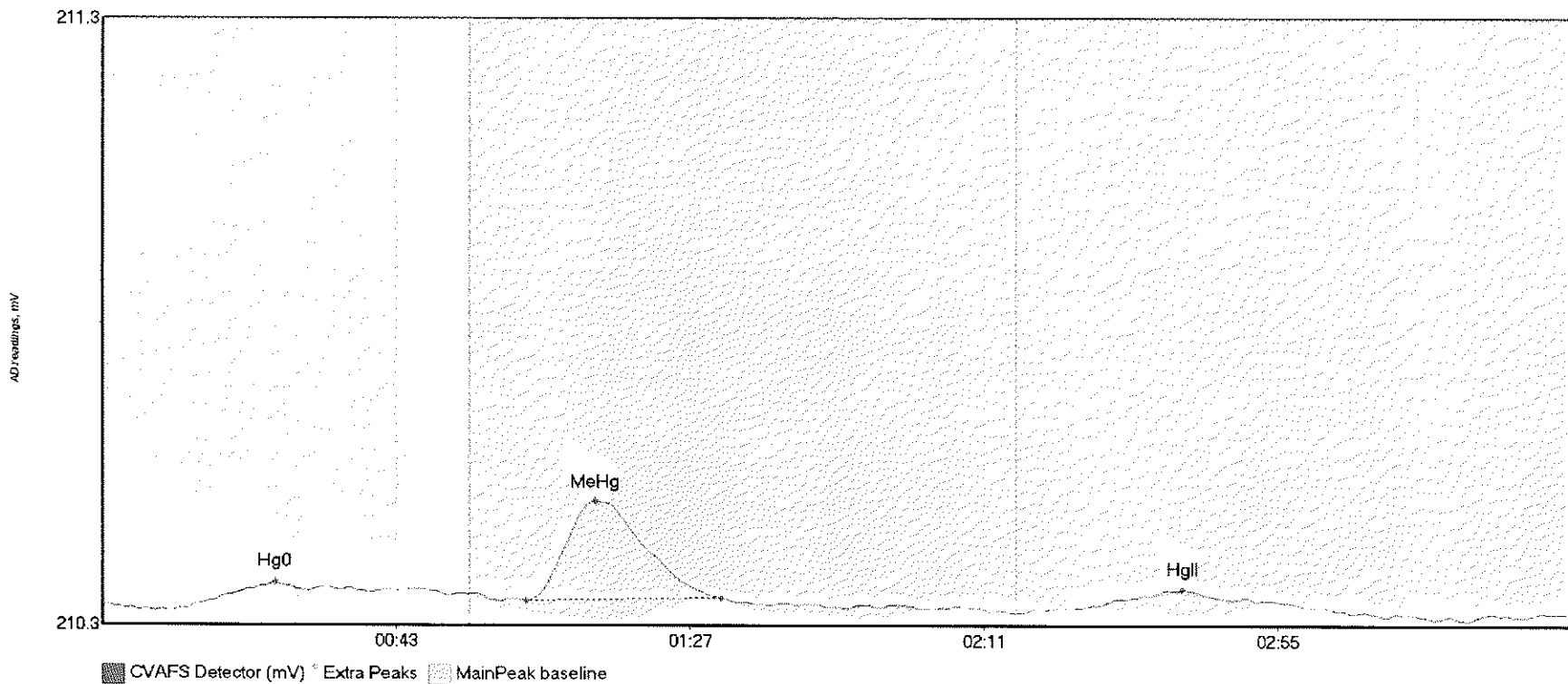


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	7.644	14.1	47.1	210.44	210.46	27.6	0.052	OK	210.4320	0.00	-0.01	
WS HgII	2.042	144.6	167.7	210.43	210.44	158.7	0.019	OK	210.4320	0.00	-0.01	017



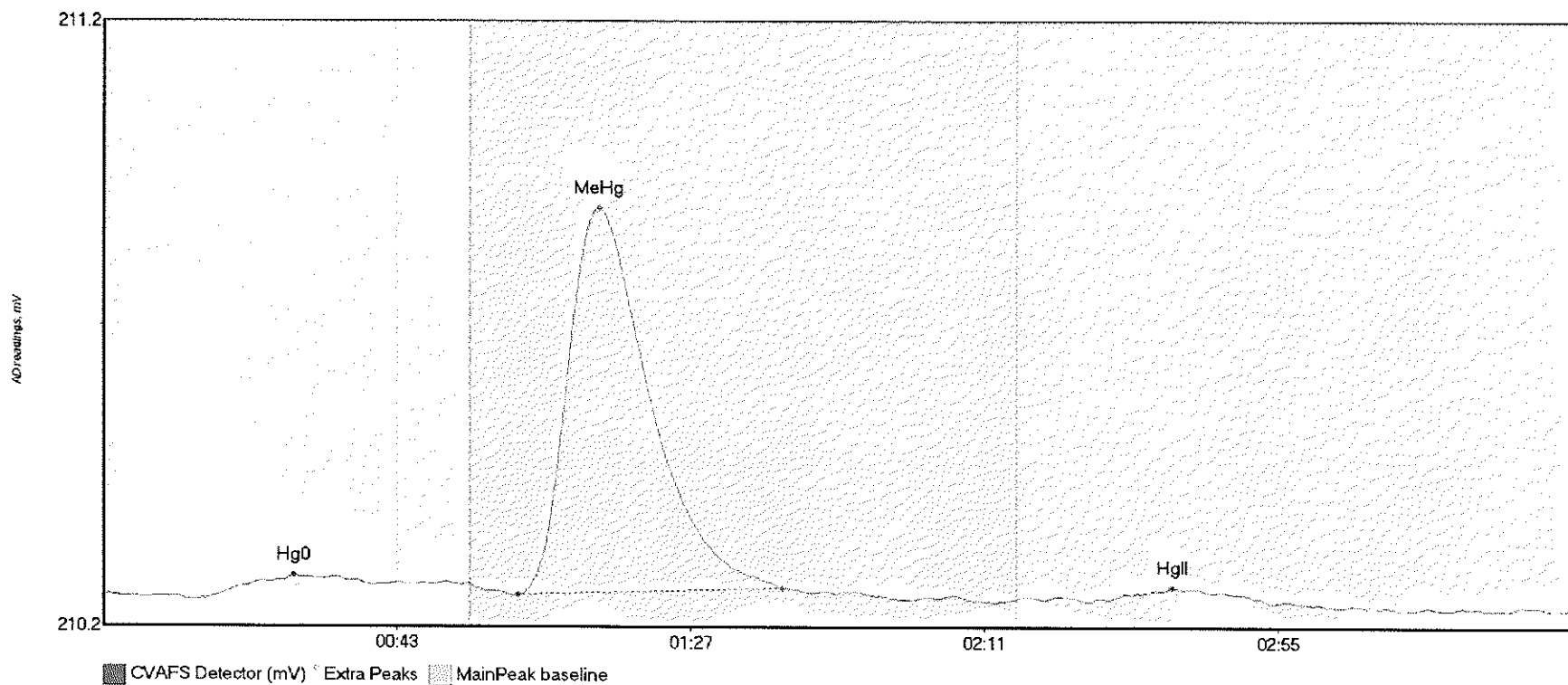
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-IBL1 Hg0	5.864	14.6	52.8	210.38	210.40	26.1	0.033	OK	210.3789	0.00	-0.02	
SEQ-IBL1 HgII	4.609	141.6	175.3	210.38	210.37	164.4	0.018	OK	210.3789	0.00	-0.02	017

#4: SEQ-CAL1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL1 Hg0	6.943	12.5	52.1	210.31	210.33	25.9	0.042	OK	210.3183	0.00	-0.02	
SEQ-CAL1 MeHg	21.739	63.5	92.6	210.32	210.33	73.9	0.165	OK	210.3183	0.00	-0.02	
SEQ-CAL1 HgII	8.267	137.7	184.9	210.30	210.31	161.7	0.038	OK	210.3183	0.00	-0.02	

#5: SEQ-CAL2

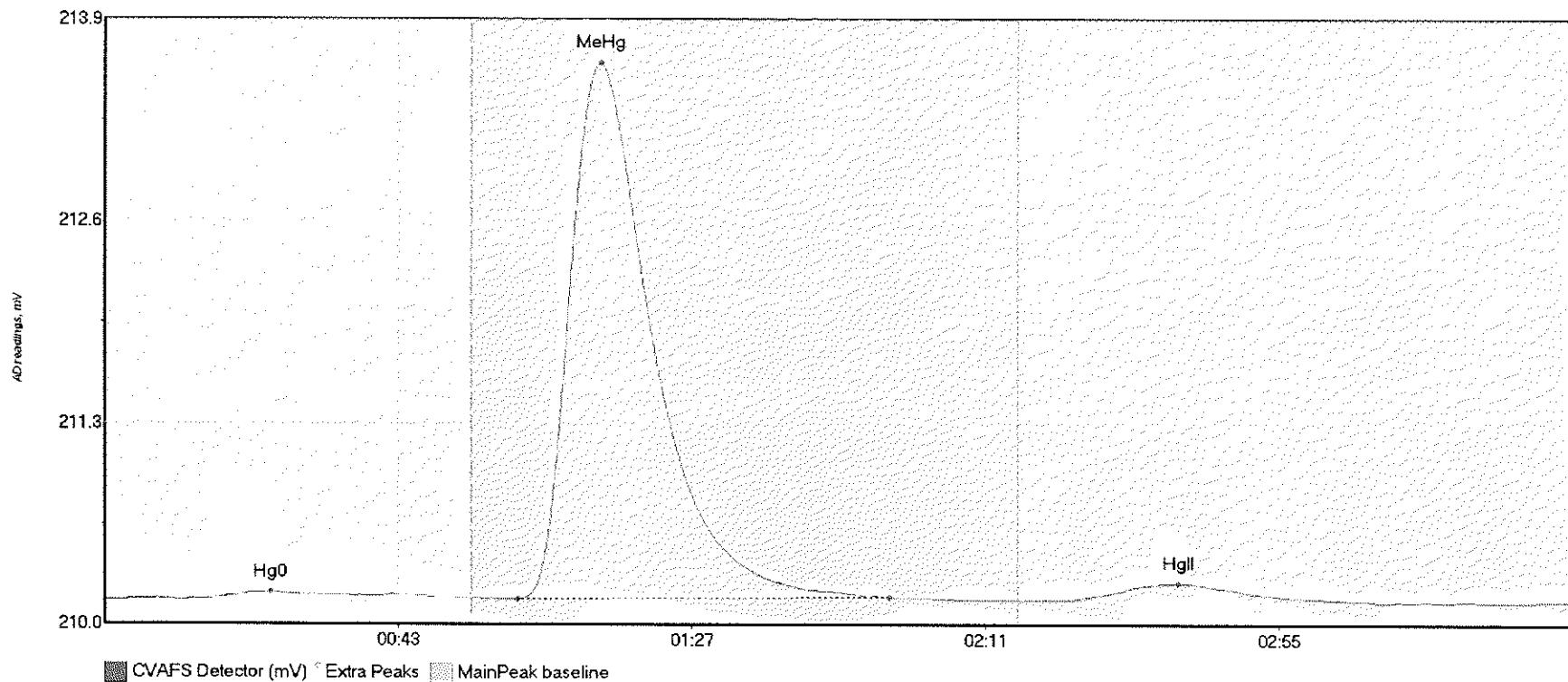


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL2 Hg0	3.733	15.3	40.5	210.23	210.26	28.6	0.038	OK	210.2397	0.00	-0.03	
SEQ-CAL2 MeHg	90.209	62.1	101.7	210.24	210.25	74.3	0.639	OK	210.2397	0.00	-0.03	
SEQ-CAL2 HgII	2.325	151.0	172.5	210.23	210.23	160.2	0.020	OK	210.2397	0.00	-0.03	

017

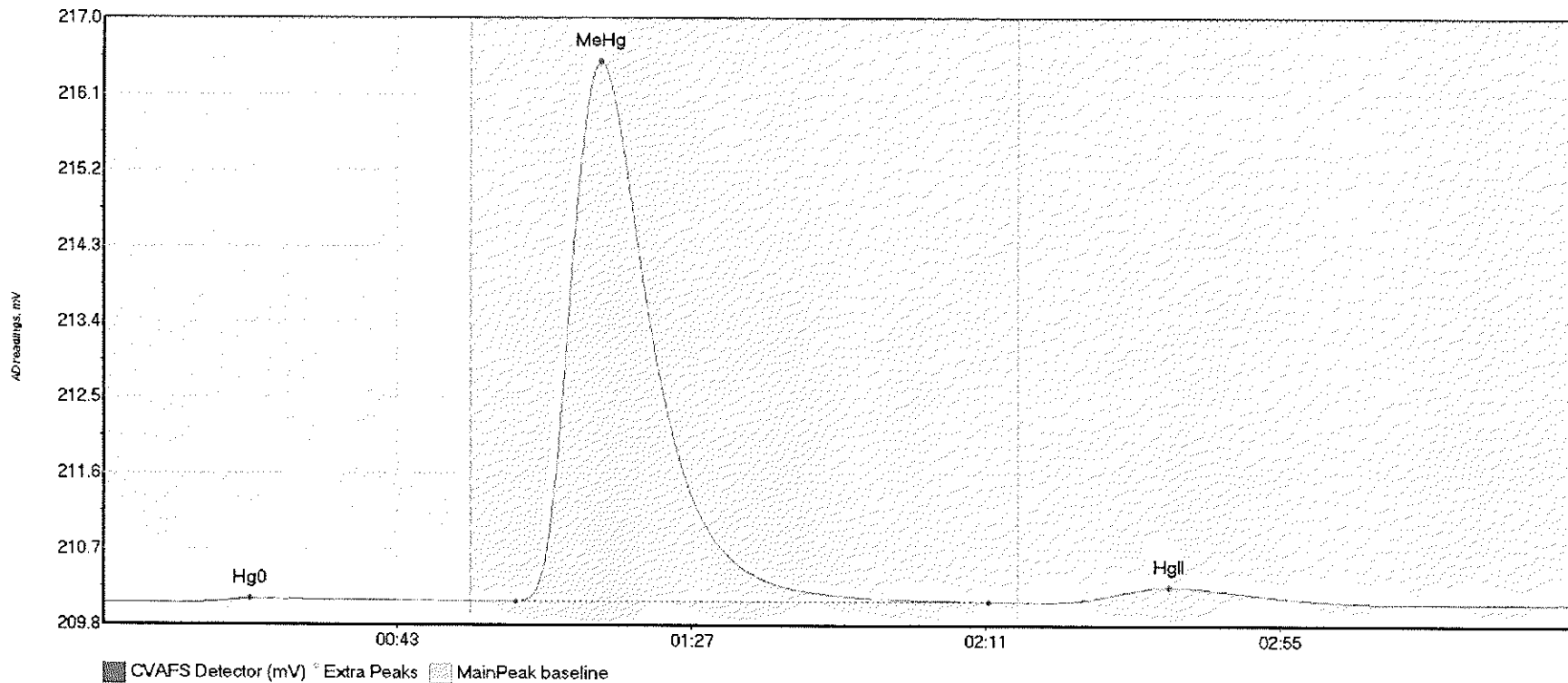


#6: SEQ-CAL3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL3 Hg0	7.514	14.7	53.7	210.17	210.18	24.8	0.040	OK	210.1671	0.00	-0.02	
SEQ-CAL3 MeHg	497.694	61.8	117.6	210.17	210.18	74.4	3.452	OK	210.1671	0.00	-0.02	
SEQ-CAL3 HgII	21.040	144.6	183.8	210.17	210.16	160.9	0.107	OK	210.1671	0.00	-0.02	

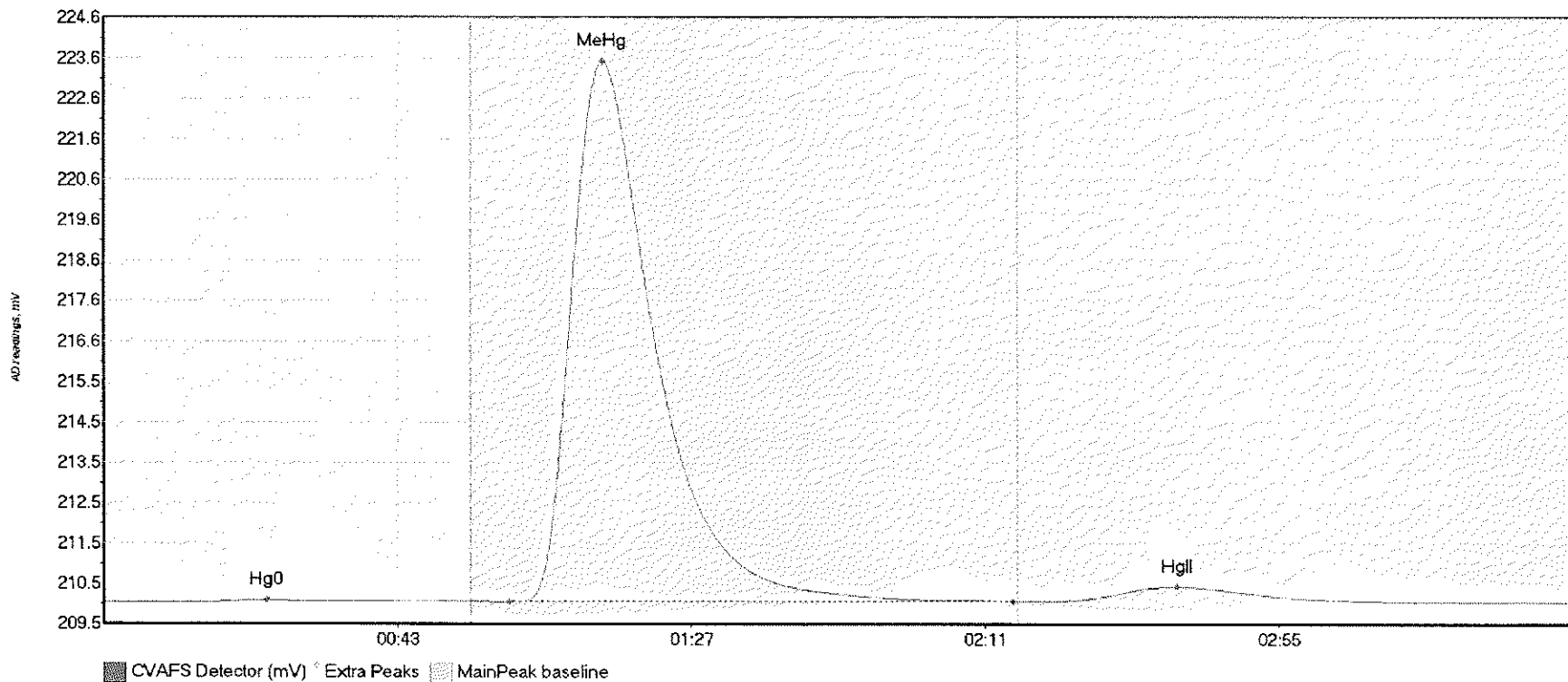
#7: SEQ-CAL4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL4 Hg0	9.996	14.2	55.0	210.08	210.10	22.0	0.051	CT	210.0825	0.00	0.01	
SEQ-CAL4 MeHg	920.020	61.7	132.5	210.11	210.11	74.5	6.404	OK	210.0825	0.00	0.01	
SEQ-CAL4 HgII	38.470	141.1	184.5	210.10	210.10	159.5	0.185	OK	210.0825	0.00	0.01	

017

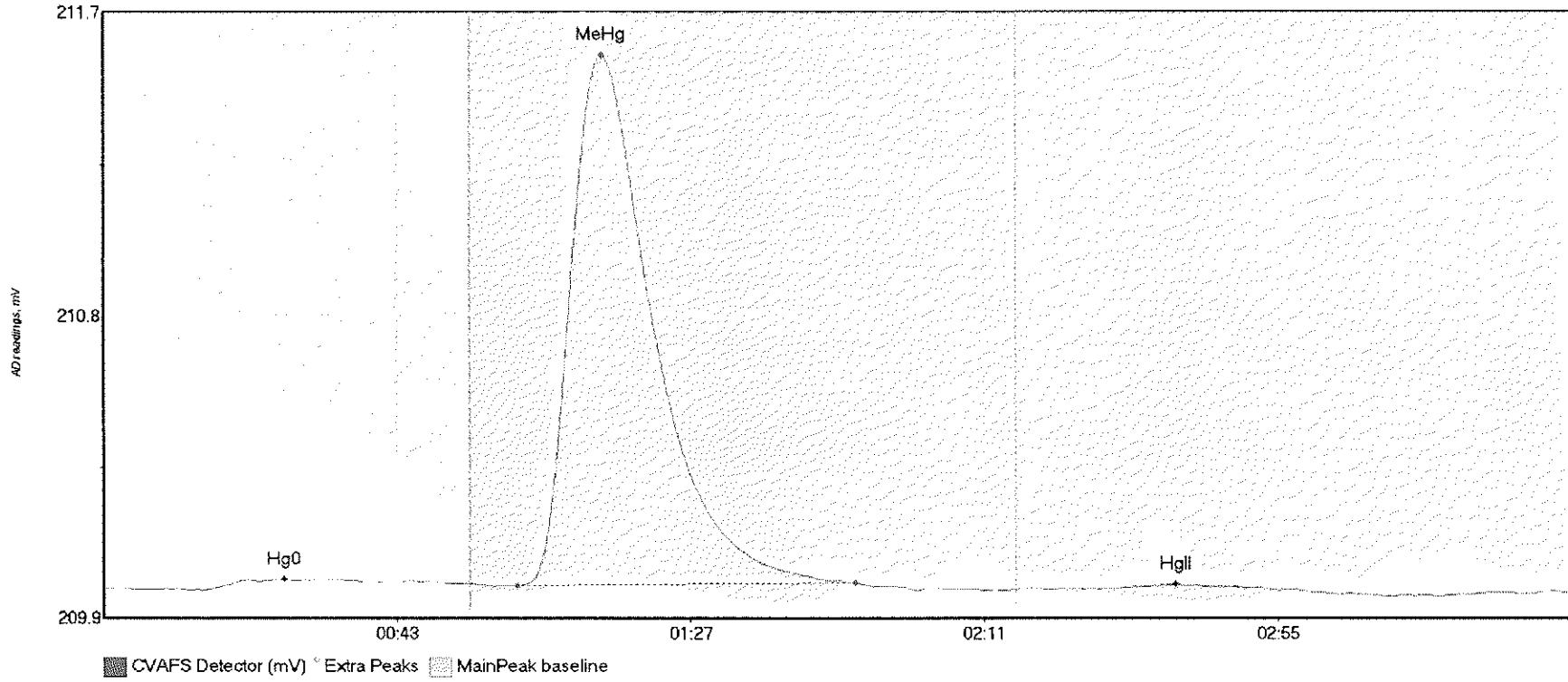
#8: SEQ-CAL5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL5 Hg0	9.191	14.7	51.4	210.03	210.05	24.4	0.054	OK	210.0269	0.00	0.00	
SEQ-CAL5 MeHg	1955.838	60.7	136.2	210.05	210.06	74.8	13.508	OK	210.0269	0.00	0.00	
SEQ-CAL5 HgII	84.125	141.8	196.3	210.06	210.03	160.7	0.368	OK	210.0269	0.00	0.00	

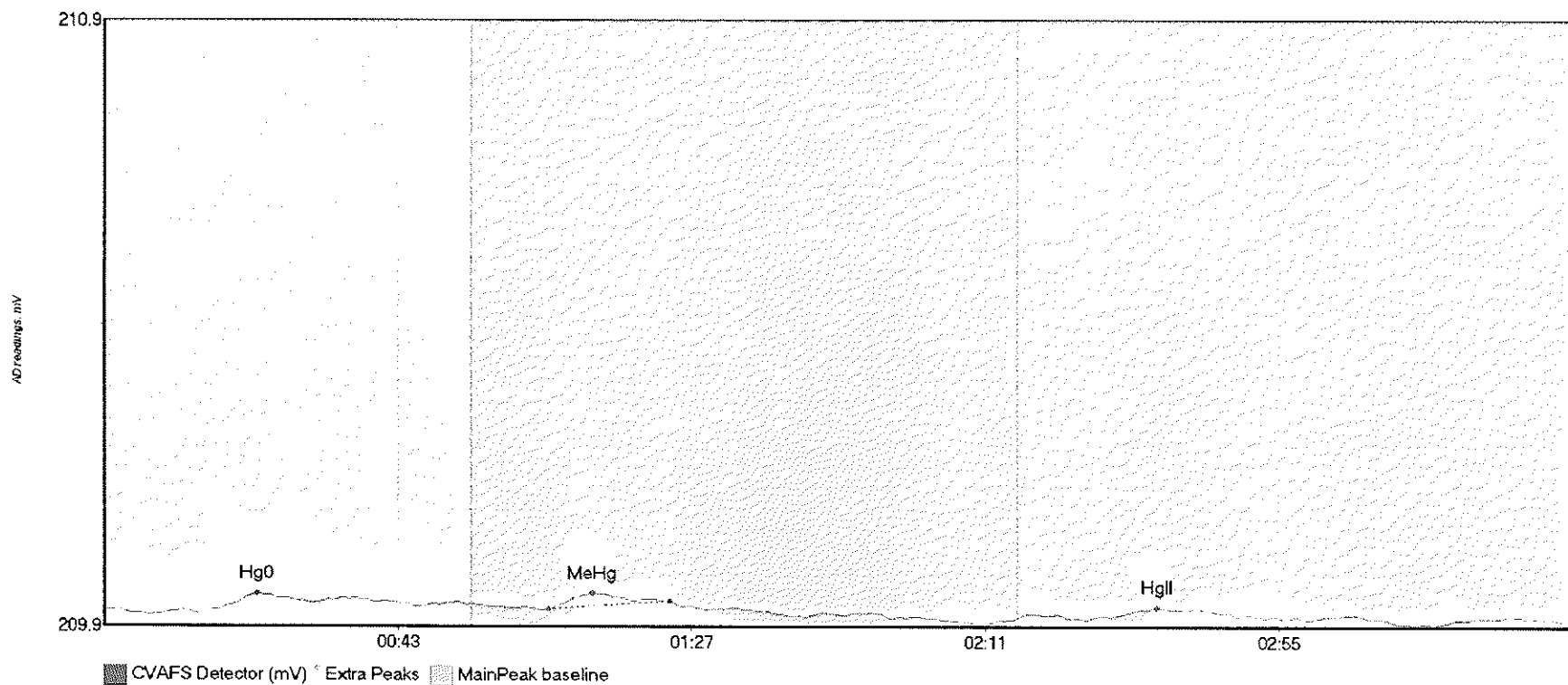
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#9: SEQ-ICV1



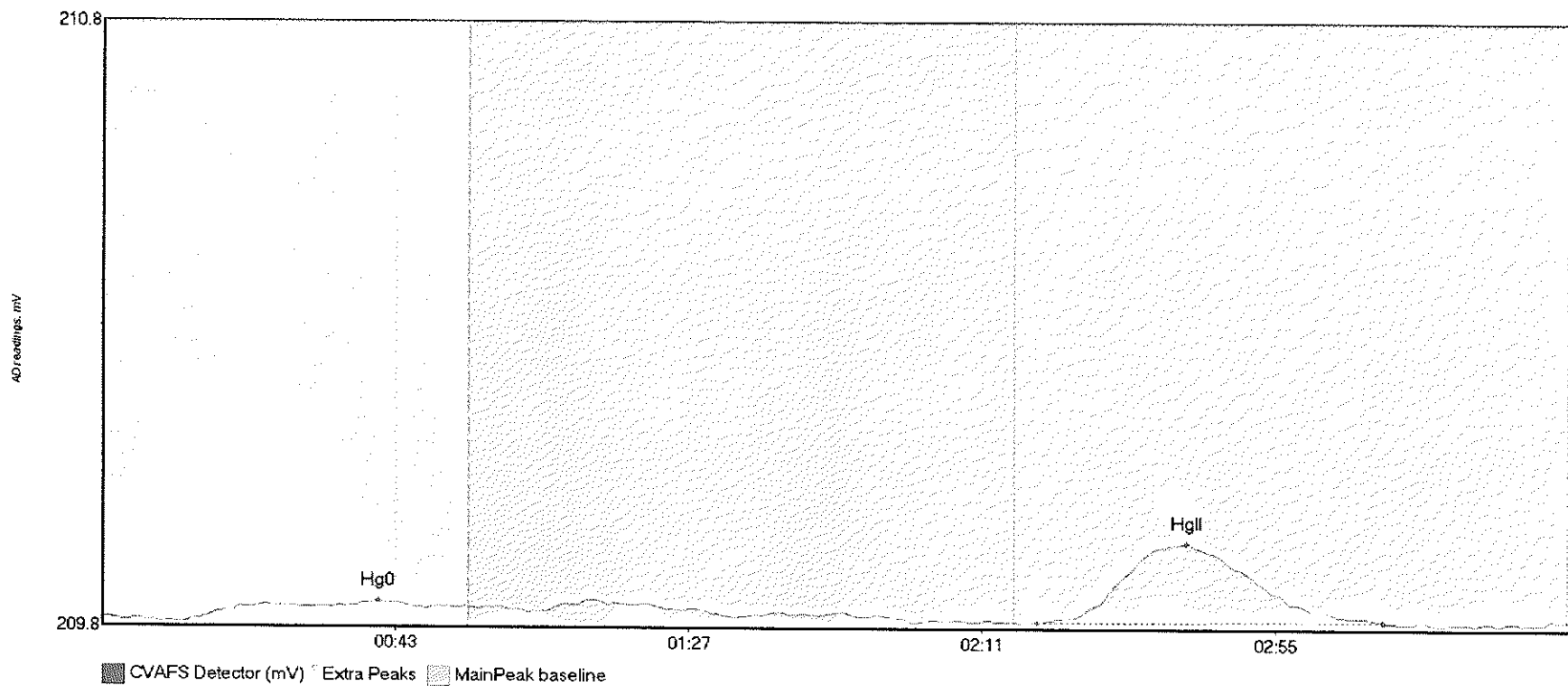
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICV1 Hg0	5.787	15.0	52.2	209.96	209.98	27.2	0.034	OK	209.9663	0.00	-0.01	
SEQ-ICV1 MeHg	232.813	62.0	112.7	209.97	209.98	74.8	1.623	OK	209.9663	0.00	-0.01	
SEQ-ICV1 HgII	0.909	153.6	171.4	209.97	209.97	160.7	0.010	OK	209.9663	0.00	-0.01	

#10: SEQ-ICB1



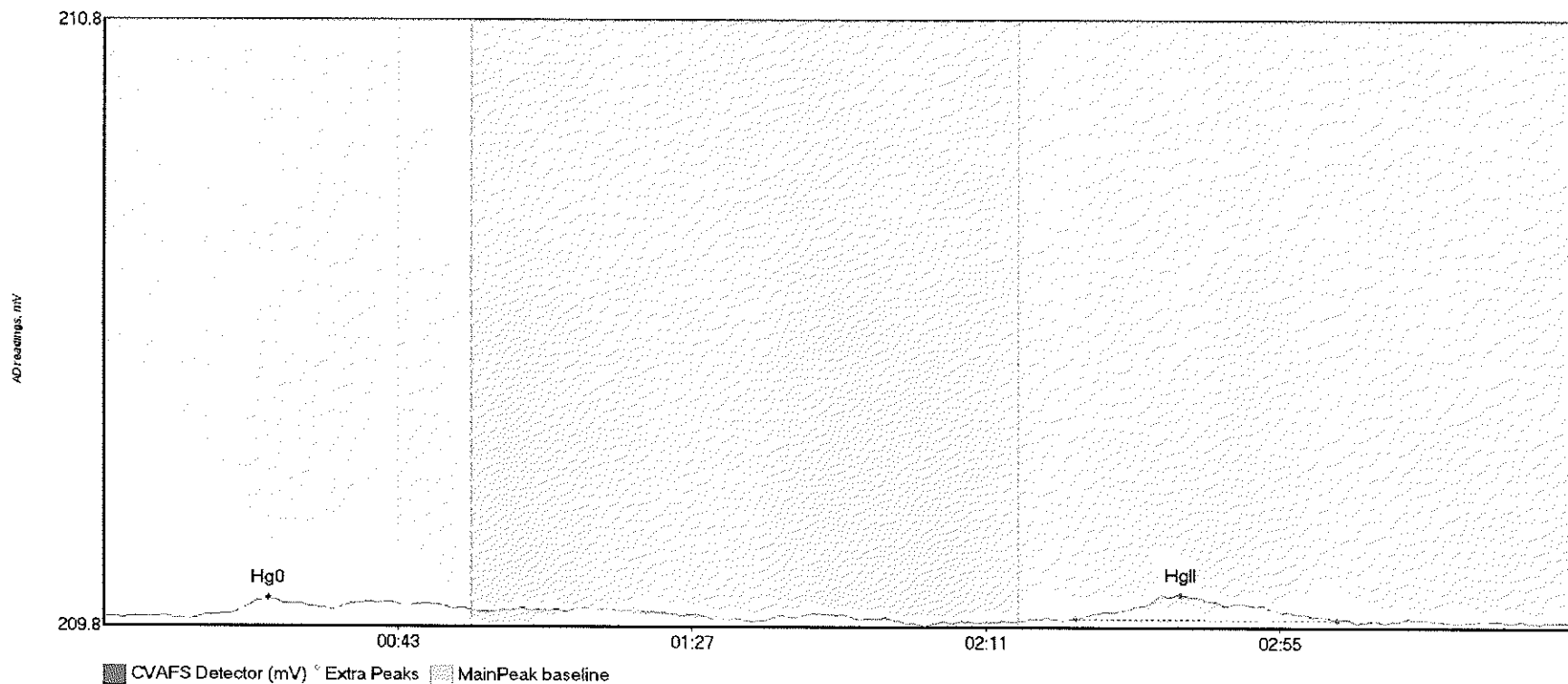
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICB1 Hg0	3.748	17.0	46.8	209.91	209.92	22.9	0.025	OK	209.9117	0.00	-0.02	
SEQ-ICB1 MeHg	1.963	66.6	84.7	209.91	209.92	73.1	0.026	OK	209.9117	0.00	-0.02	
SEQ-ICB1 HgII	1.034	152.1	167.7	209.90	209.90	157.7	0.012	OK	209.9117	0.00	-0.02	

#11: F708475-BLK1



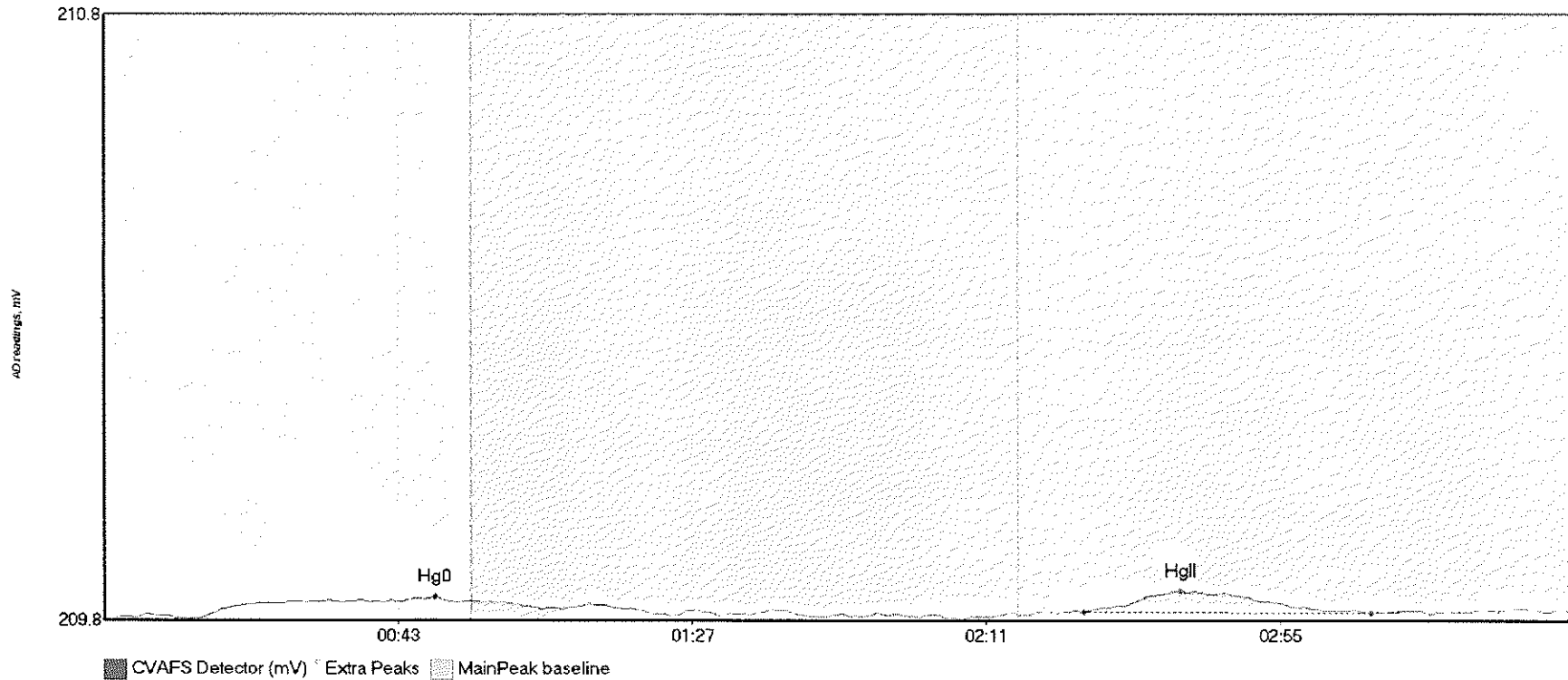
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BLK1 Hg	3.873	14.4	48.6	209.86	209.87	41.4	0.029	OK	209.8583	0.00	0.00	
F708475-BLK1 Hg	28.693	140.3	192.2	209.85	209.85	162.8	0.132	OK	209.8583	0.00	0.00	017

#12: F708475-BLK2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BLK2 Hg	4.333	18.7	55.0	209.83	209.84	24.6	0.025	CT	209.8307	0.00	-0.01	
F708475-BLK2 Hg	7.799	145.5	184.6	209.83	209.83	161.2	0.040	OK	209.8307	0.00	-0.01	017

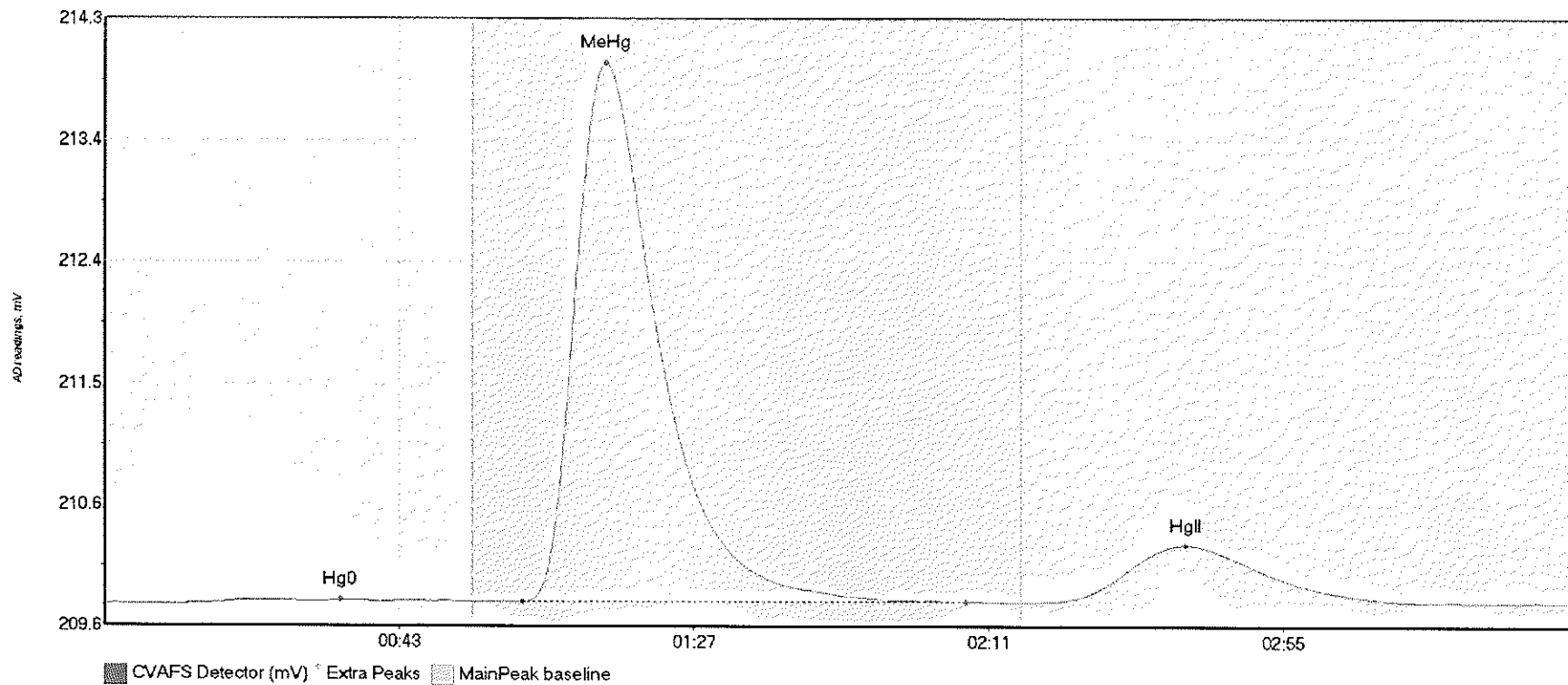
#13: F708475-BLK3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BLK3 Hg	4.530	13.8	52.8	209.81	209.84	49.6	0.034	OK	209.8113	0.00	0.01	
F708475-BLK3 Hg	7.603	146.7	189.6	209.82	209.82	161.2	0.035	OK	209.8113	0.00	0.01	017



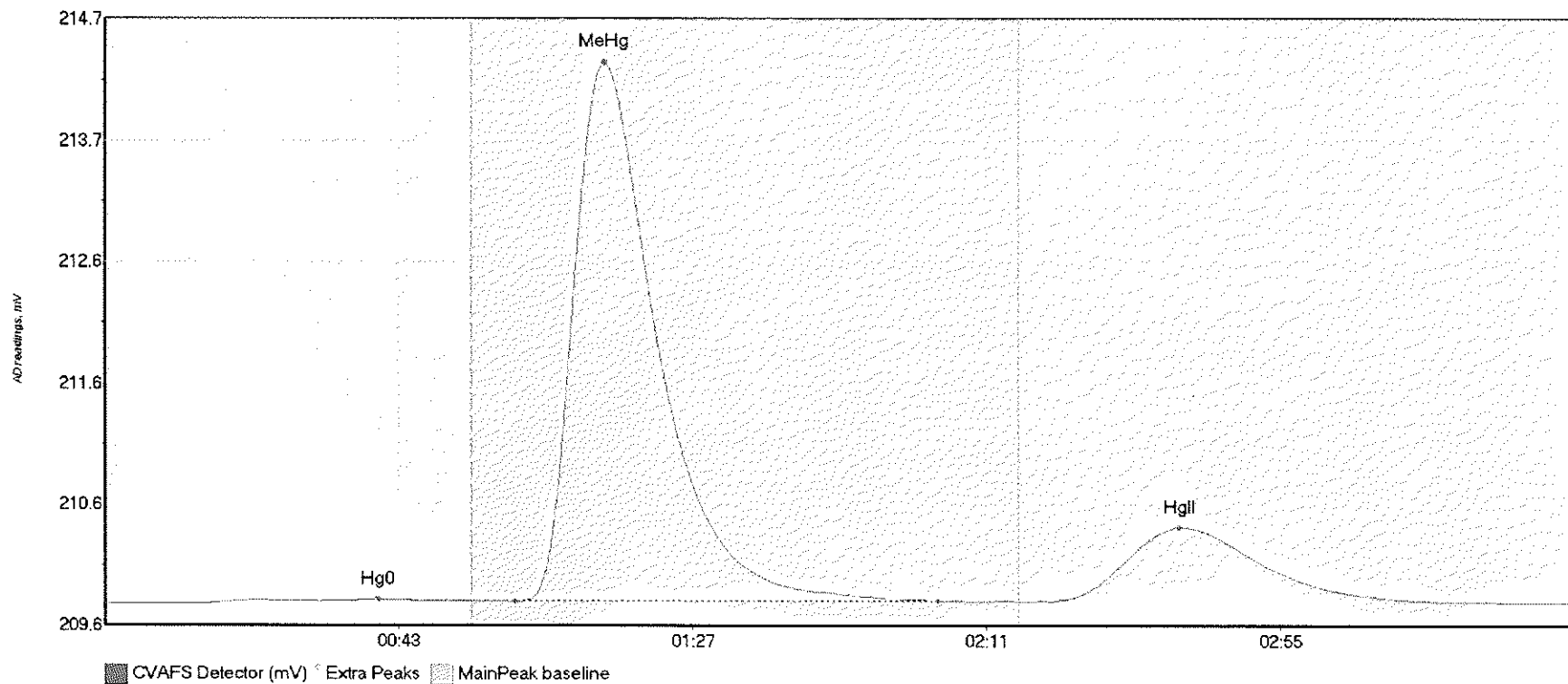
#14: F708475-BS1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BS1 Hg0	5.388	14.0	55.0	209.81	209.82	35.2	0.027	CT	209.8046	0.00	0.01	
F708475-BS1 MeH	599.200	62.4	128.6	209.82	209.82	74.9	4.138	OK	209.8046	0.00	0.01	
F708475-BS1 HgI	99.869	140.9	196.7	209.82	209.82	161.5	0.436	OK	209.8046	0.00	0.01	

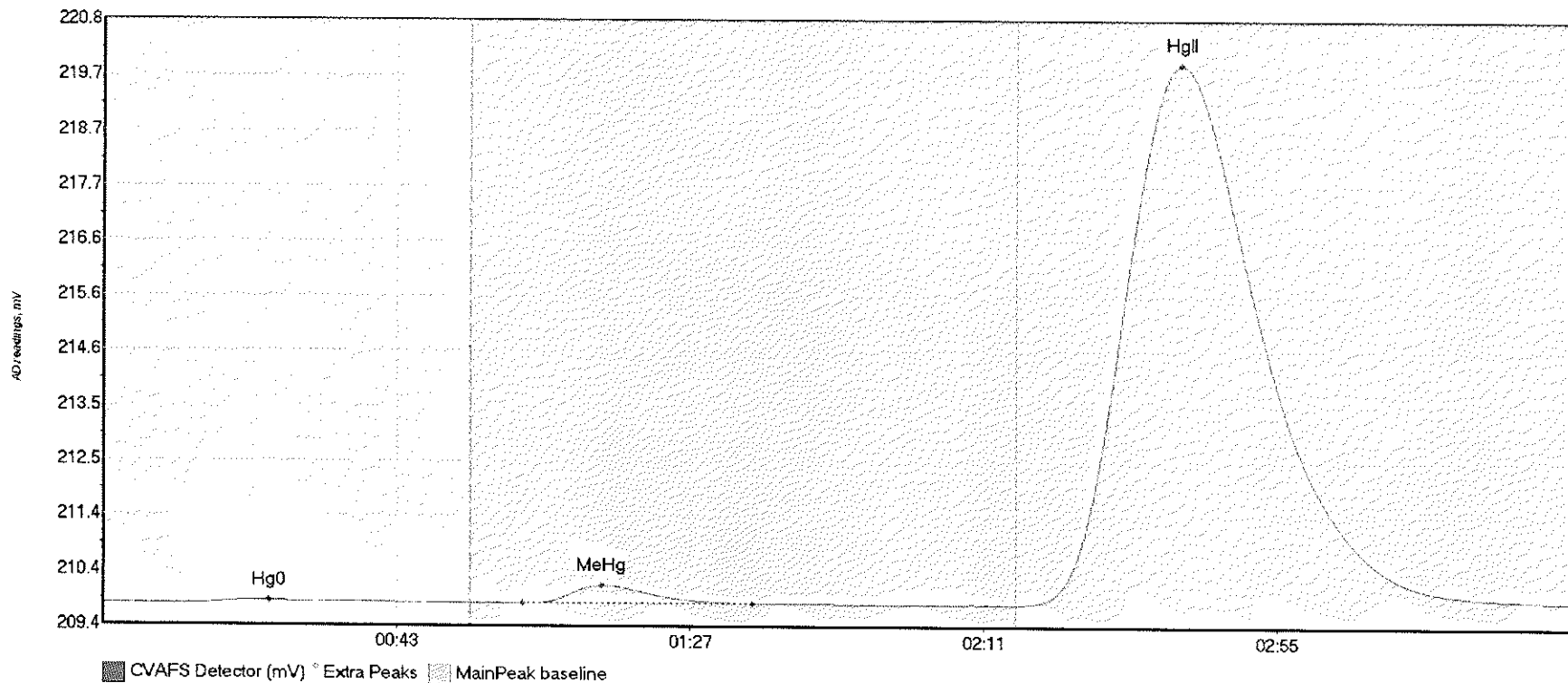
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#15: F708475-BSD1



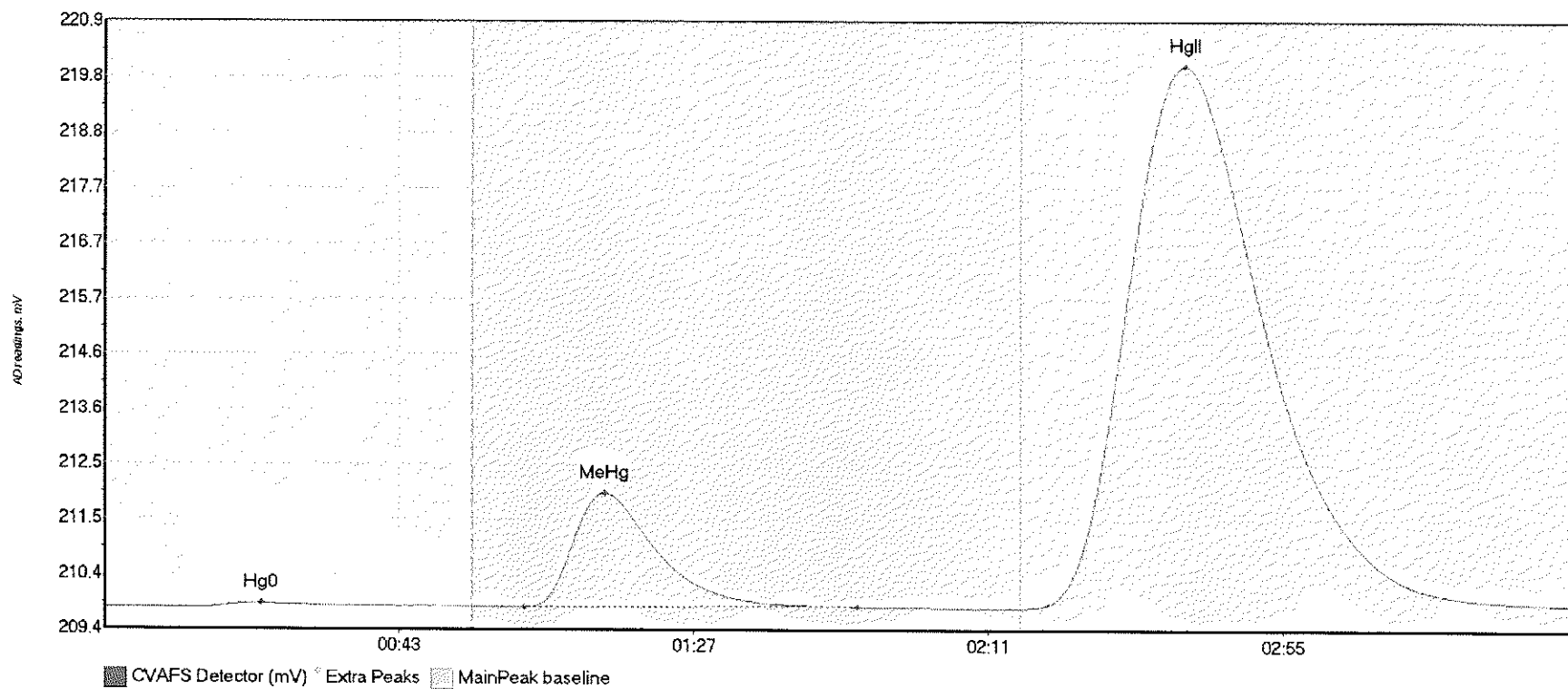
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BSD1 Hg	4.537	14.8	49.4	209.80	209.82	41.0	0.037	OK	209.7942	0.00	0.01	
F708475-BSD1 Me	650.007	61.4	124.8	209.81	209.82	74.9	4.492	OK	209.7942	0.00	0.01	
F708475-BSD1 Hg	137.975	141.7	197.3	209.81	209.82	160.9	0.618	OK	209.7942	0.00	0.01	

#16: F708475-DUP1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-DUP1 Hg	10.816	14.2	54.3	209.79	209.81	24.9	0.056	OK	209.7854	0.00	0.08	
F708475-DUP1 Me	45.717	62.9	97.3	209.80	209.81	74.8	0.341	OK	209.7854	0.00	0.08	
F708475-DUP1 Hg	2361.793	137.5	219.8	209.80	209.86	161.5	10.151	CT	209.7854	0.00	0.08	

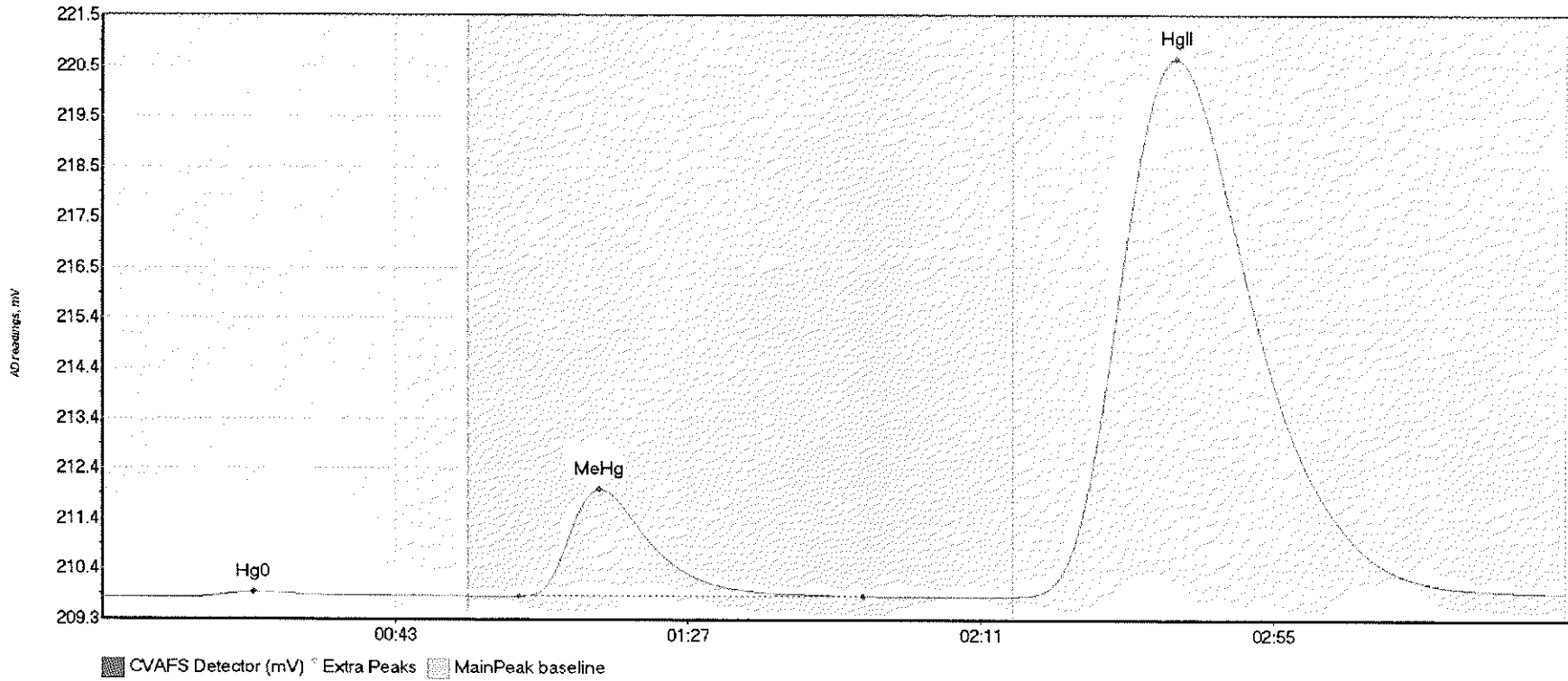
#17: F708475-MS1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-MS1 Hg0	11.954	13.3	53.1	209.79	209.82	23.4	0.082	OK	209.7881	0.00	0.08	
F708475-MS1 MeH	306.319	62.7	112.5	209.81	209.82	74.7	2.152	OK	209.7881	0.00	0.08	
F708475-MS1 HgI	2409.281	136.8	219.8	209.80	209.87	161.3	10.267	CT	209.7881	0.00	0.08	

017

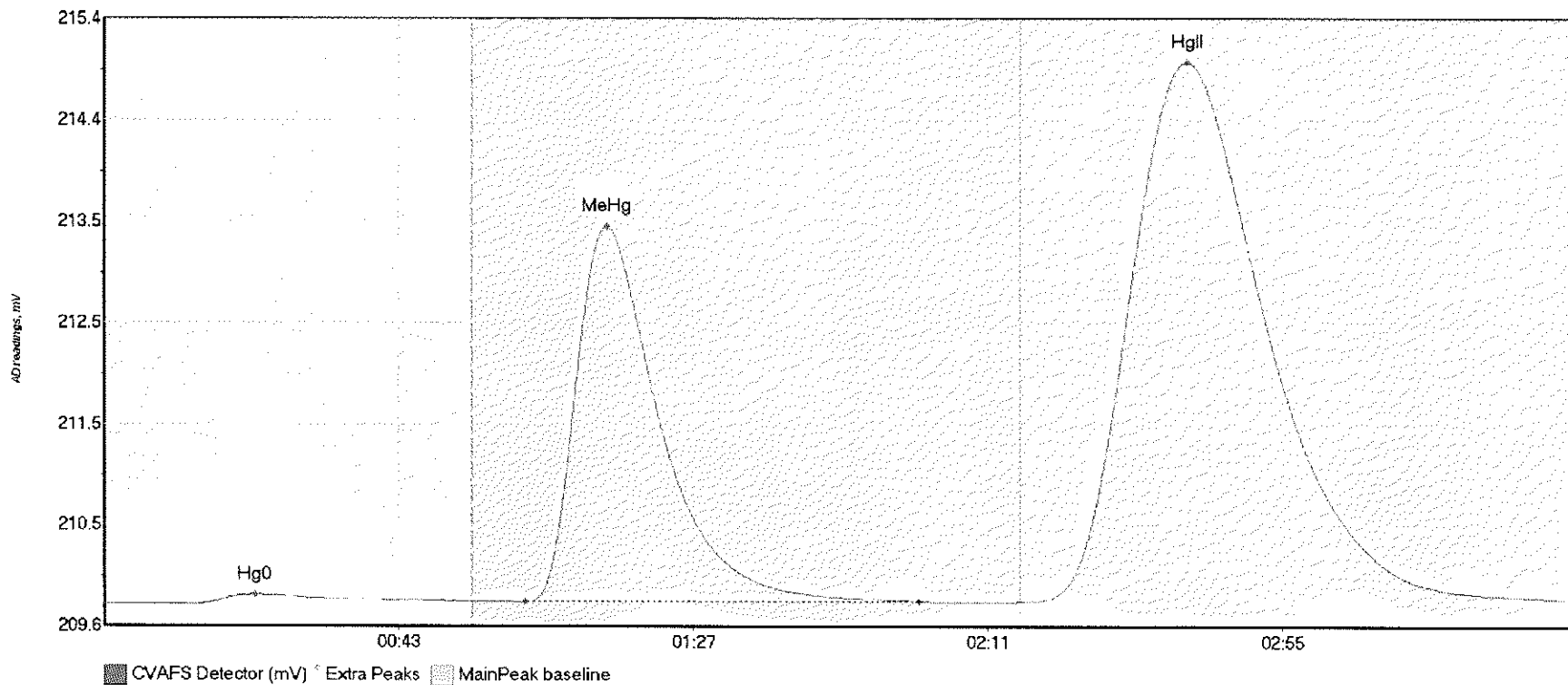
#18: F708475-MSD1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-MSD1 Hg	16.102	11.8	55.0	209.78	209.82	22.7	0.105	CT	209.7790	0.00	0.11	
F708475-MSD1 Me	307.547	62.6	114.3	209.81	209.82	74.8	2.155	OK	209.7790	0.00	0.11	
F708475-MSD1 Hg	2541.319	136.8	219.8	209.81	209.89	161.4	10.855	CT	209.7790	0.00	0.11	

017

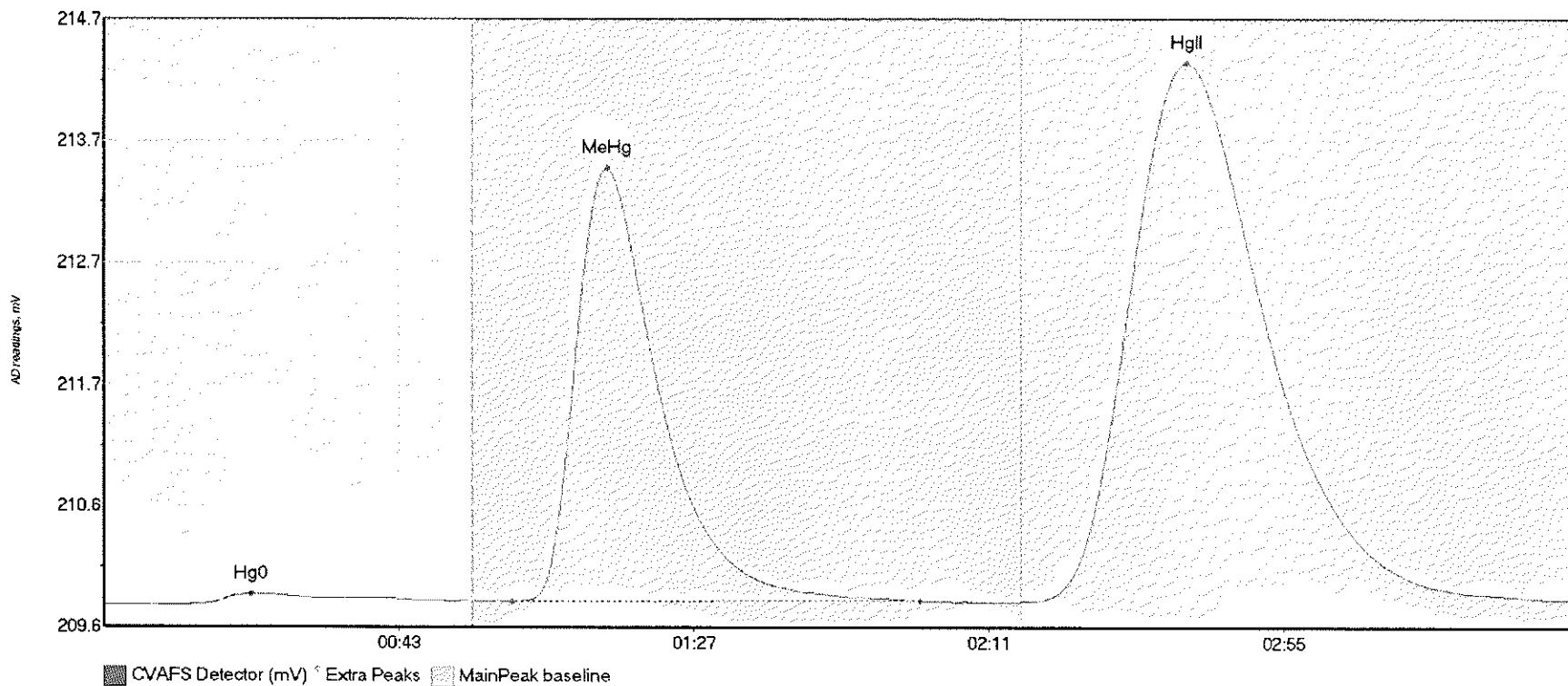
#19: F708475-MS2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-MS2 Hg0	13.086	11.1	53.5	209.80	209.82	22.6	0.087	OK	209.7923	0.00	0.04	
F708475-MS2 MeH	518.454	62.9	121.8	209.82	209.82	75.1	3.589	OK	209.7923	0.00	0.04	
F708475-MS2 HgI	1202.677	138.0	219.6	209.82	209.84	161.7	5.151	OK	209.7923	0.00	0.04	

017

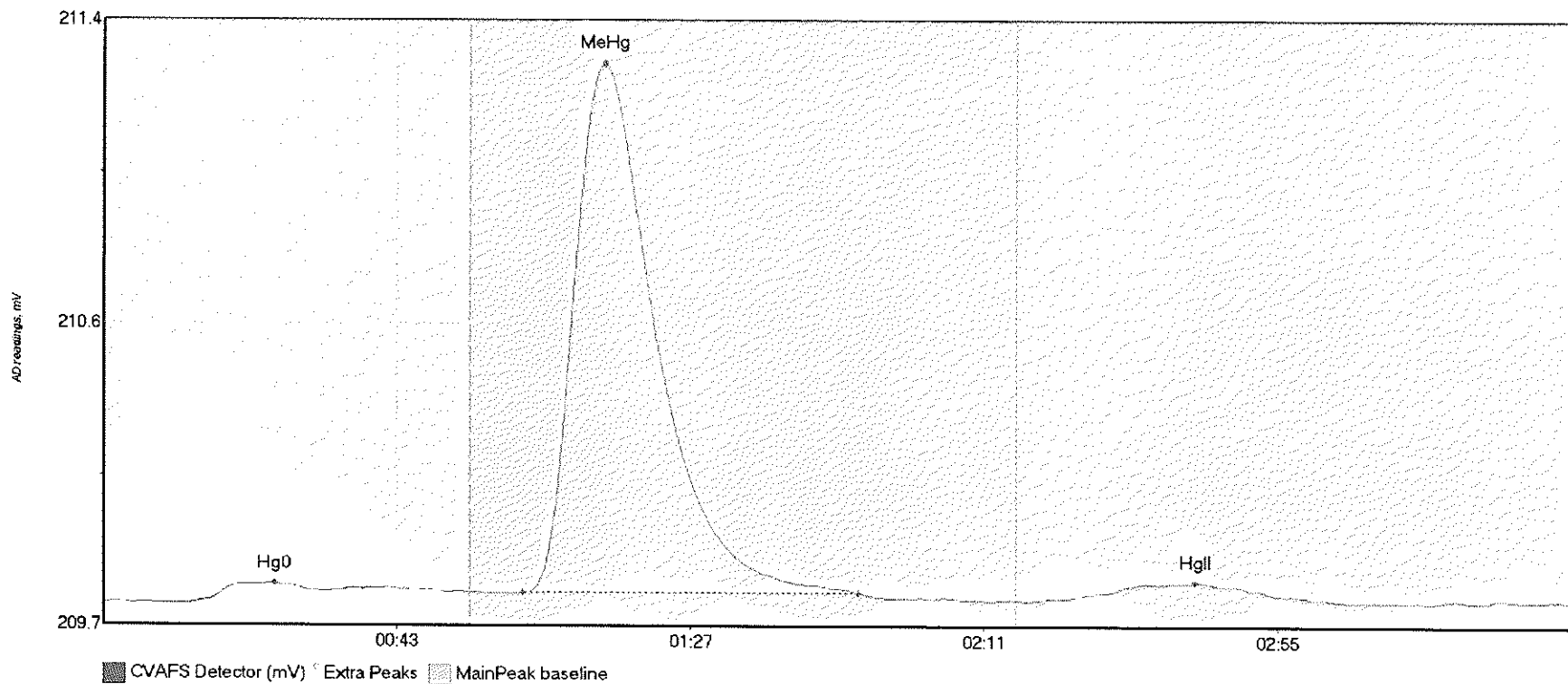
#20: F708475-MSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-MSD2 Hg	14.615	12.3	52.6	209.79	209.83	22.0	0.091	OK	209.7897	0.00	0.05	
F708475-MSD2 Me	525.971	60.9	121.8	209.82	209.83	75.1	3.650	OK	209.7897	0.00	0.05	
F708475-MSD2 Hg	1061.833	138.5	219.7	209.82	209.84	161.5	4.538	OK	209.7897	0.00	0.05	

017

#21: SEQ-CCV1

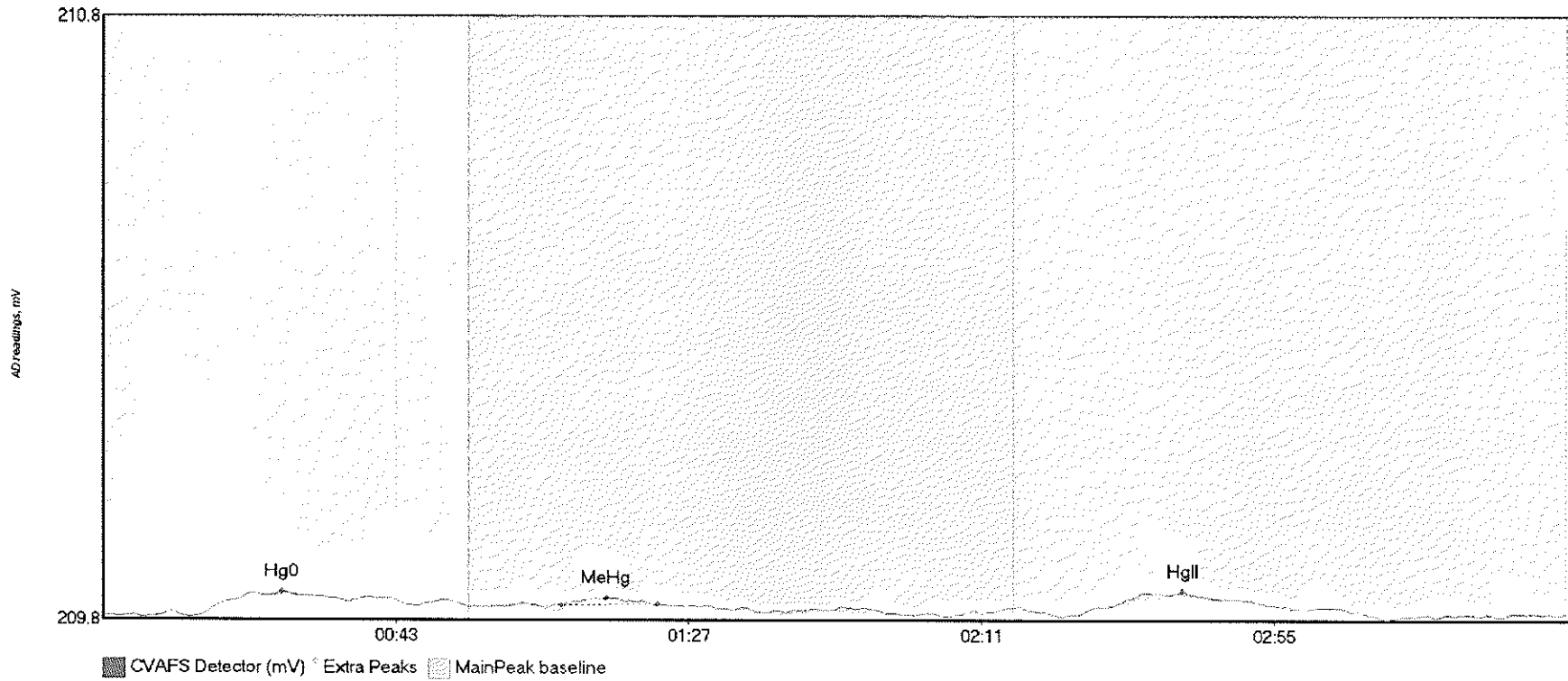


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0	9.307	12.3	54.9	209.79	209.82	25.7	0.054	OK	209.7880	0.00	0.01	
SEQ-CCV1 MeHg	205.377	62.8	113.1	209.82	209.82	75.1	1.447	OK	209.7880	0.00	0.01	
SEQ-CCV1 HgII	10.616	143.0	181.4	209.80	209.80	163.8	0.046	OK	209.7880	0.00	0.01	

017



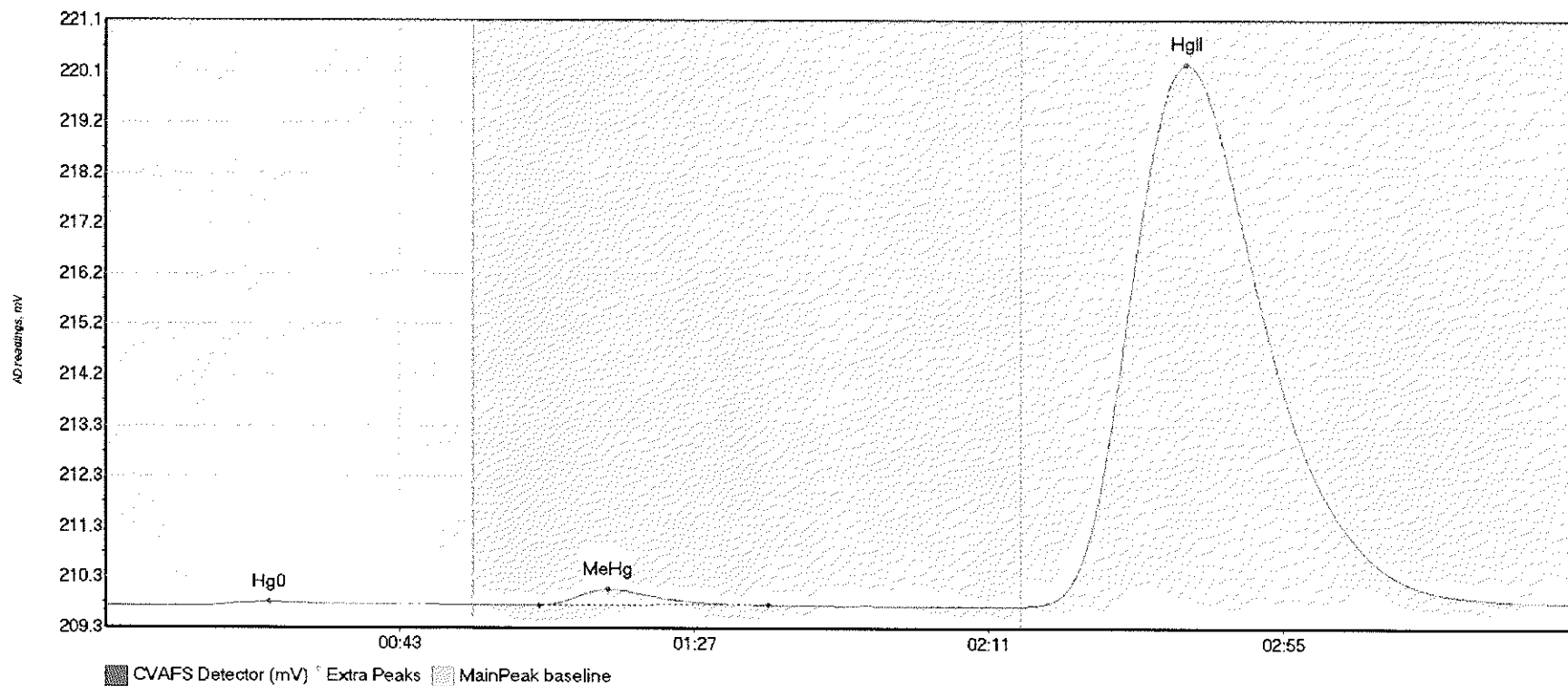
#22: SEQ-CCB1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB1 Hg0	7.697	14.2	54.9	209.78	209.79	26.8	0.039	OK	209.7792	0.00	0.00	
SEQ-CCB1 MeHg	1.019	68.9	83.3	209.80	209.80	75.6	0.012	OK	209.7792	0.00	0.00	
SEQ-CCB1 HgII	3.372	150.9	175.3	209.79	209.80	162.3	0.025	OK	209.7792	0.00	0.00	

017

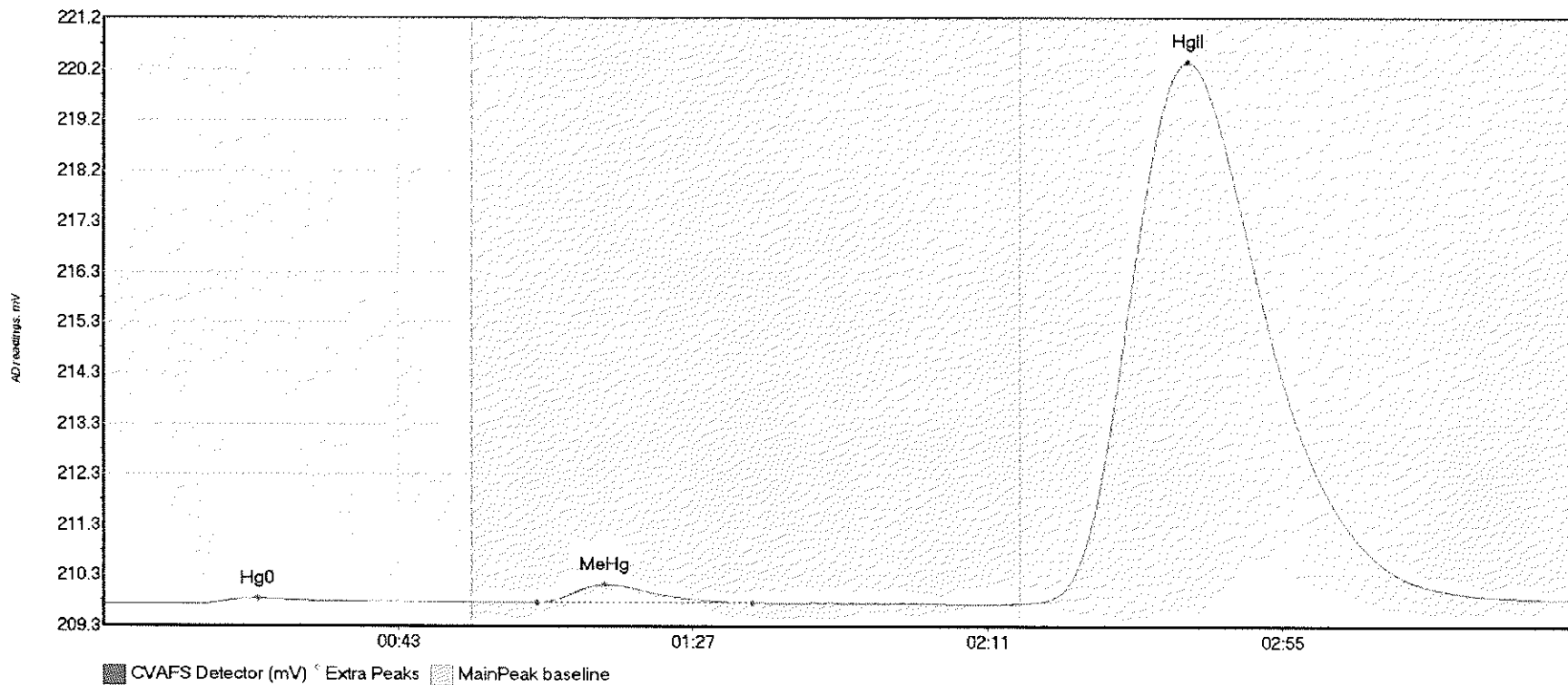
#23: 1708151-04



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-04 Hg0	11.518	13.8	54.3	209.77	209.79	24.6	0.071	OK	209.7653	0.00	0.08	
1708151-04 MeHg	41.262	64.9	99.0	209.79	209.79	75.2	0.305	OK	209.7653	0.00	0.08	
1708151-04 HgII	2438.751	136.8	219.8	209.77	209.84	161.5	10.505	CT	209.7653	0.00	0.08	

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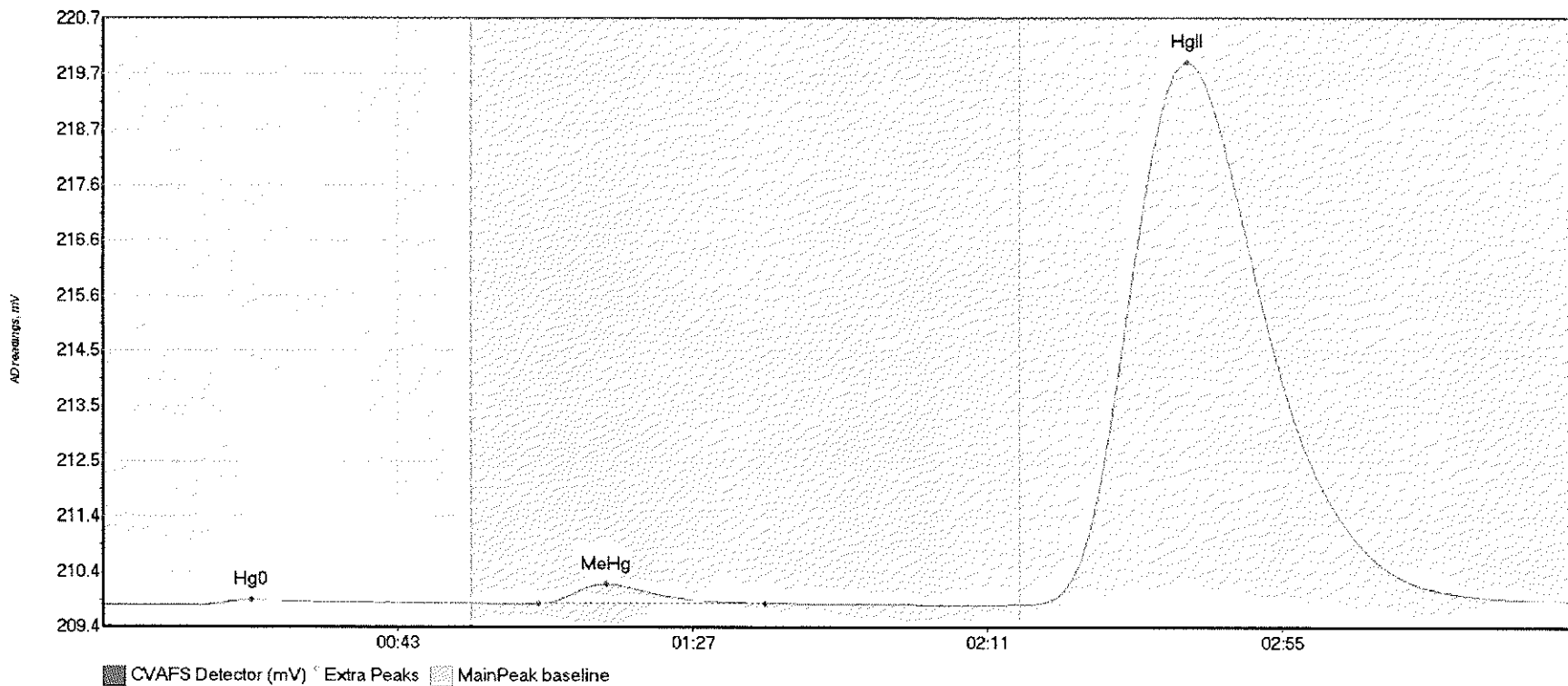
#24: 1708151-05



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
1708151-05 Hg0	16.849	13.0	51.5	209.76	209.80	23.0	0.112	OK	209.7566	0.00	0.10	
1708151-05 MeHg	47.238	64.7	96.9	209.79	209.80	74.9	0.356	OK	209.7566	0.00	0.10	
1708151-05 HgII	2476.451	136.8	218.7	209.78	209.85	161.8	10.587	OK	209.7566	0.00	0.10	

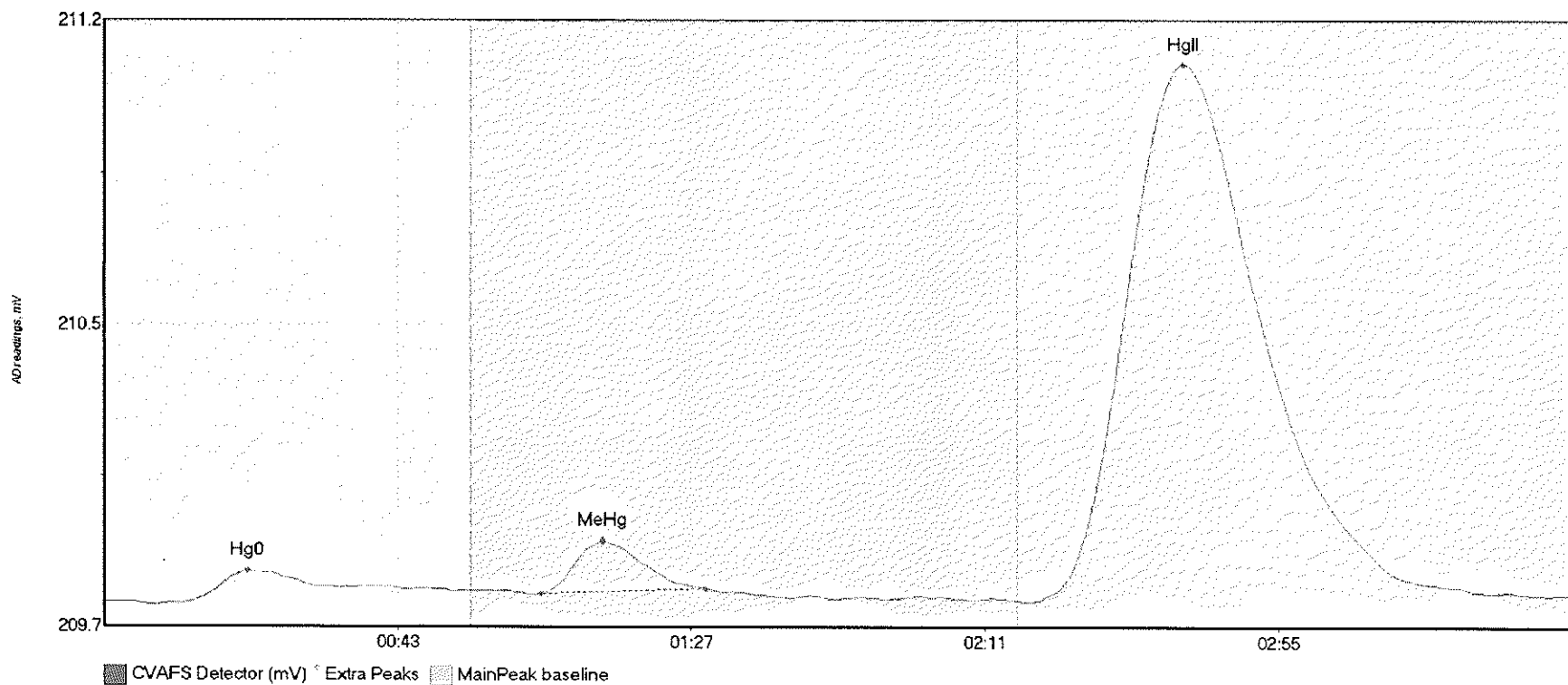
017

#25: 1708151-06



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-06 Hg0	16.280	11.8	54.7	209.77	209.80	22.2	0.103	OK	209.7643	0.00	0.08	
1708151-06 MeHg	48.036	65.0	98.7	209.80	209.81	75.2	0.363	OK	209.7643	0.00	0.08	
1708151-06 HgII	2378.831	137.2	219.5	209.79	209.85	161.8	10.141	OK	209.7643	0.00	0.08	

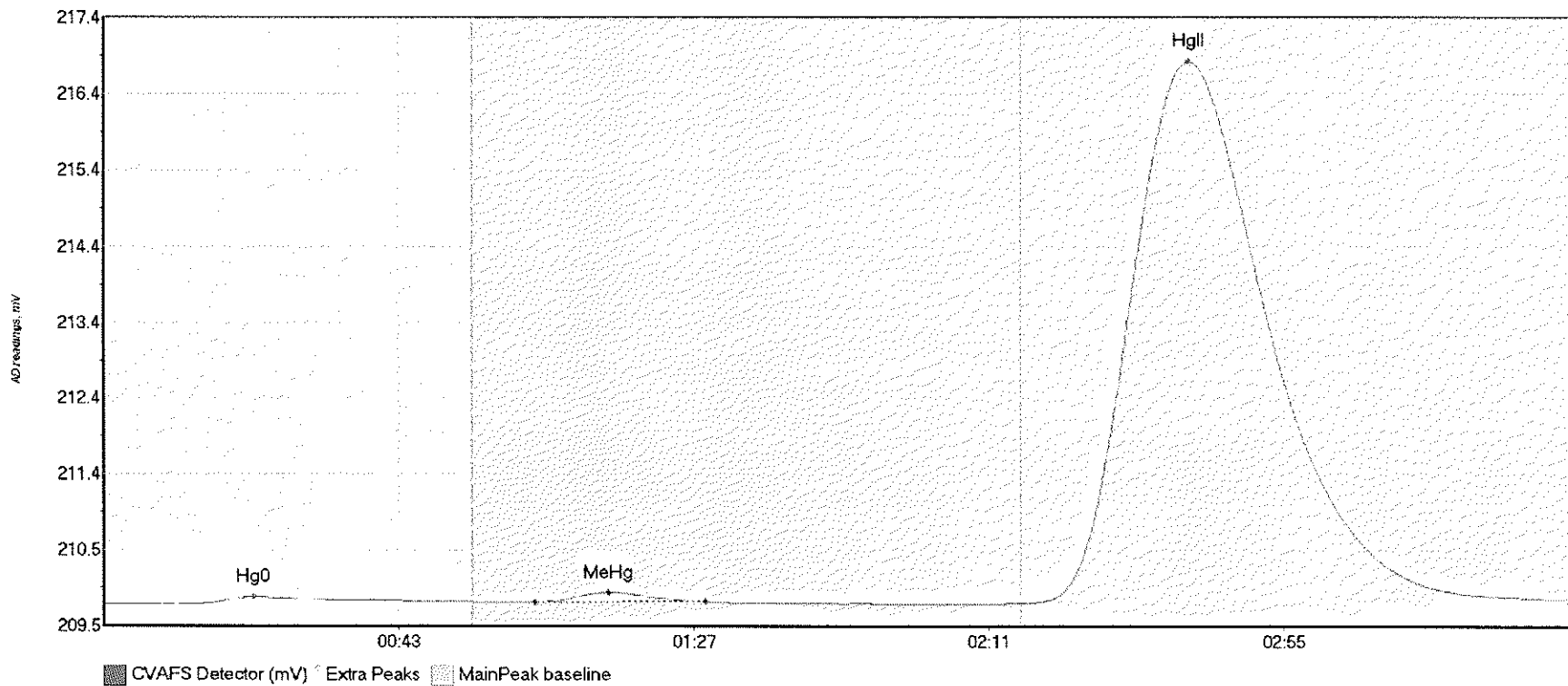
#26: 1708151-07



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-07 Hg0	11.853	11.5	52.2	209.76	209.79	21.4	0.079	OK	209.7631	0.00	0.02	
1708151-07 MeHg	14.361	65.4	90.1	209.78	209.79	74.8	0.129	OK	209.7631	0.00	0.02	
1708151-07 HgII	310.702	139.6	216.6	209.76	209.78	161.6	1.335	OK	209.7631	0.00	0.02	

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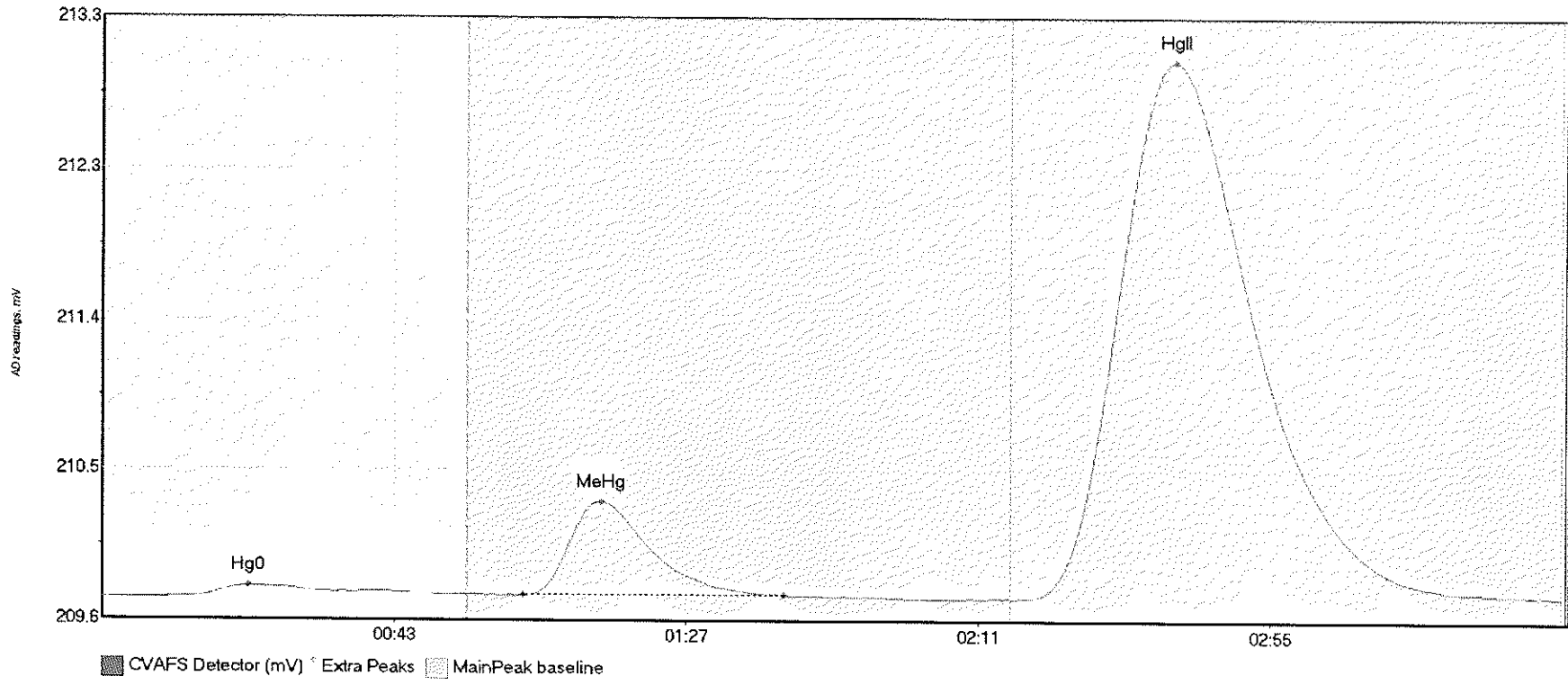
#27: 1708151-08



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-08 Hg0	14.922	11.9	55.0	209.75	209.79	22.3	0.093	CT	209.7598	0.00	0.05	
1708151-08 MeHg	14.505	64.3	89.8	209.78	209.79	75.3	0.126	OK	209.7598	0.00	0.05	
1708151-08 HgII	1653.197	137.4	219.2	209.76	209.81	161.8	7.062	OK	209.7598	0.00	0.05	

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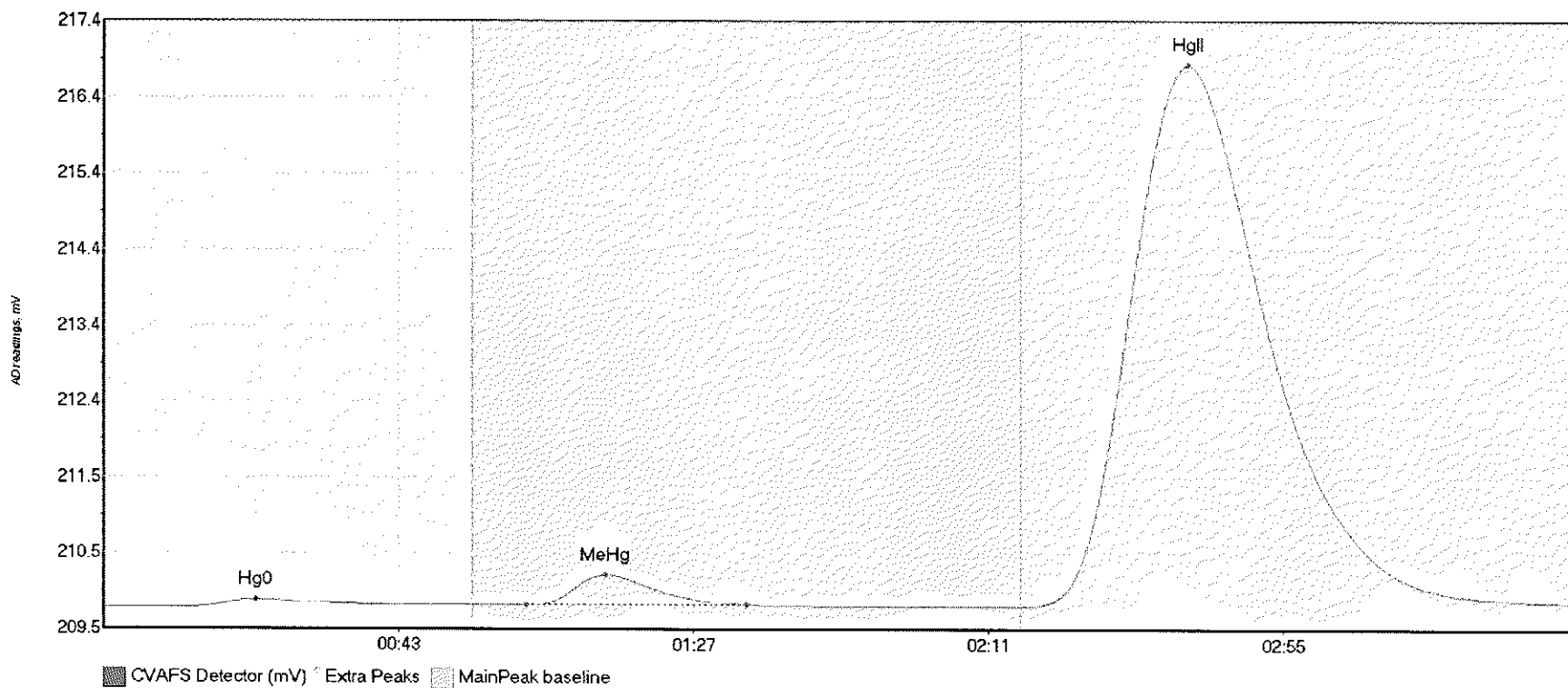
#28: 1708151-09



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-09 Hg0	11.285	11.4	53.4	209.76	209.78	22.0	0.066	OK	209.7554	0.00	0.02	
1708151-09 MeHg	78.710	63.5	102.7	209.77	209.78	75.2	0.565	OK	209.7554	0.00	0.02	
1708151-09 HgII	752.045	139.2	219.8	209.76	209.77	161.6	3.234	CT	209.7554	0.00	0.02	

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#29: 1708151-10

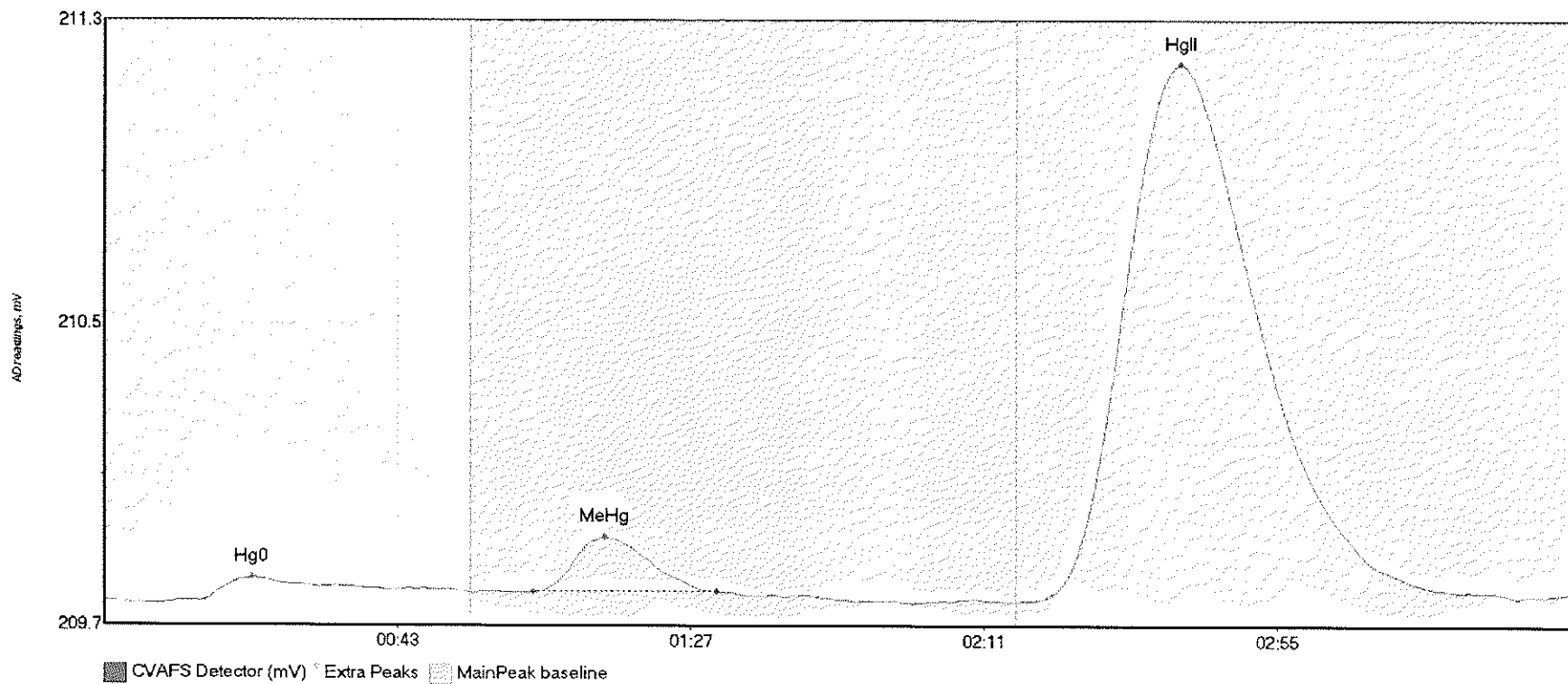


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-10 Hg0	13.792	10.4	48.8	209.75	209.78	22.7	0.098	OK	209.7449	0.00	0.06	
1708151-10 MeHg	51.550	63.0	95.9	209.78	209.79	74.9	0.395	OK	209.7449	0.00	0.06	
1708151-10 HgII	1656.910	136.8	219.8	209.76	209.81	161.6	7.099	CT	209.7449	0.00	0.06	

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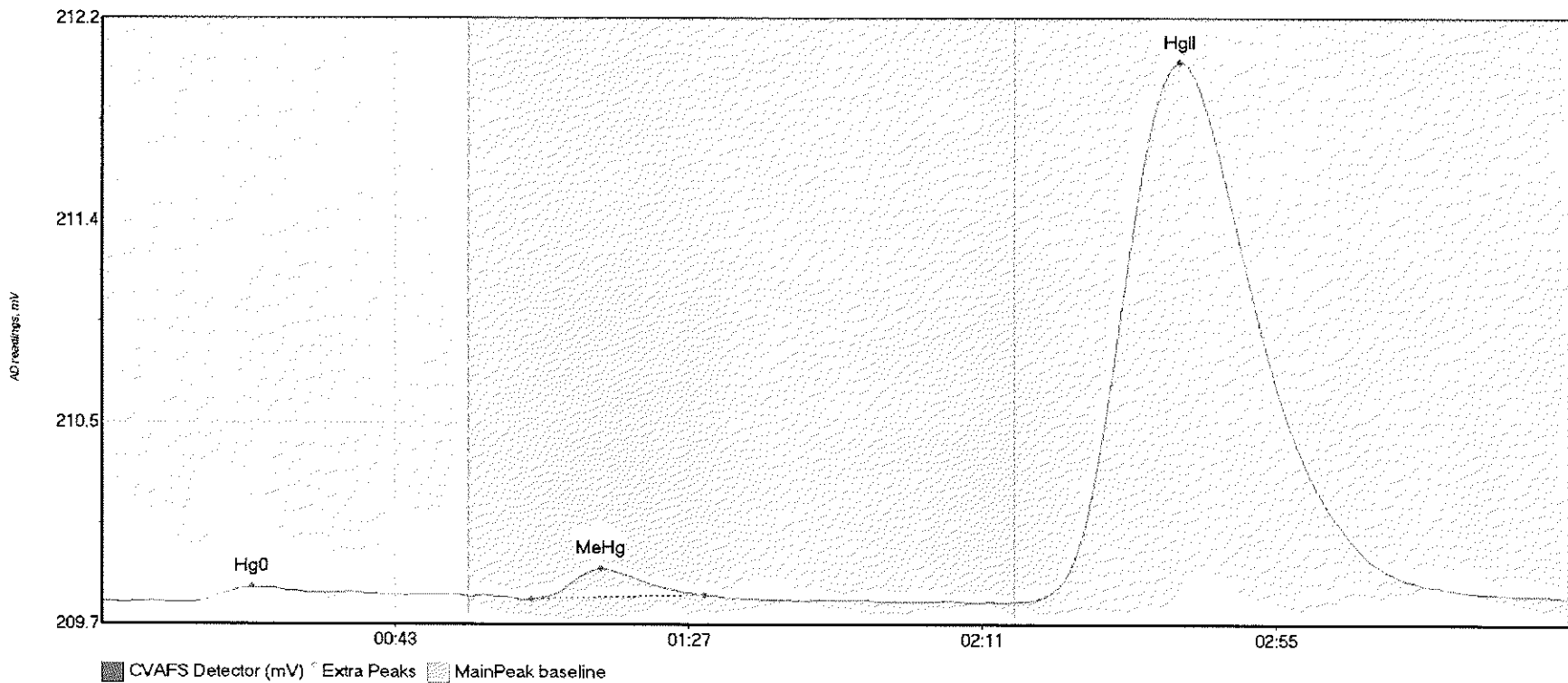
#30: 1708151-11



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-11 Hg0	10.617	14.4	55.0	209.77	209.79	22.1	0.061	CT	209.7663	0.00	0.02	
1708151-11 MeHg	18.316	64.4	91.9	209.79	209.79	75.1	0.145	OK	209.7663	0.00	0.02	
1708151-11 HgII	324.735	139.4	212.0	209.77	209.77	161.5	1.402	OK	209.7663	0.00	0.02	

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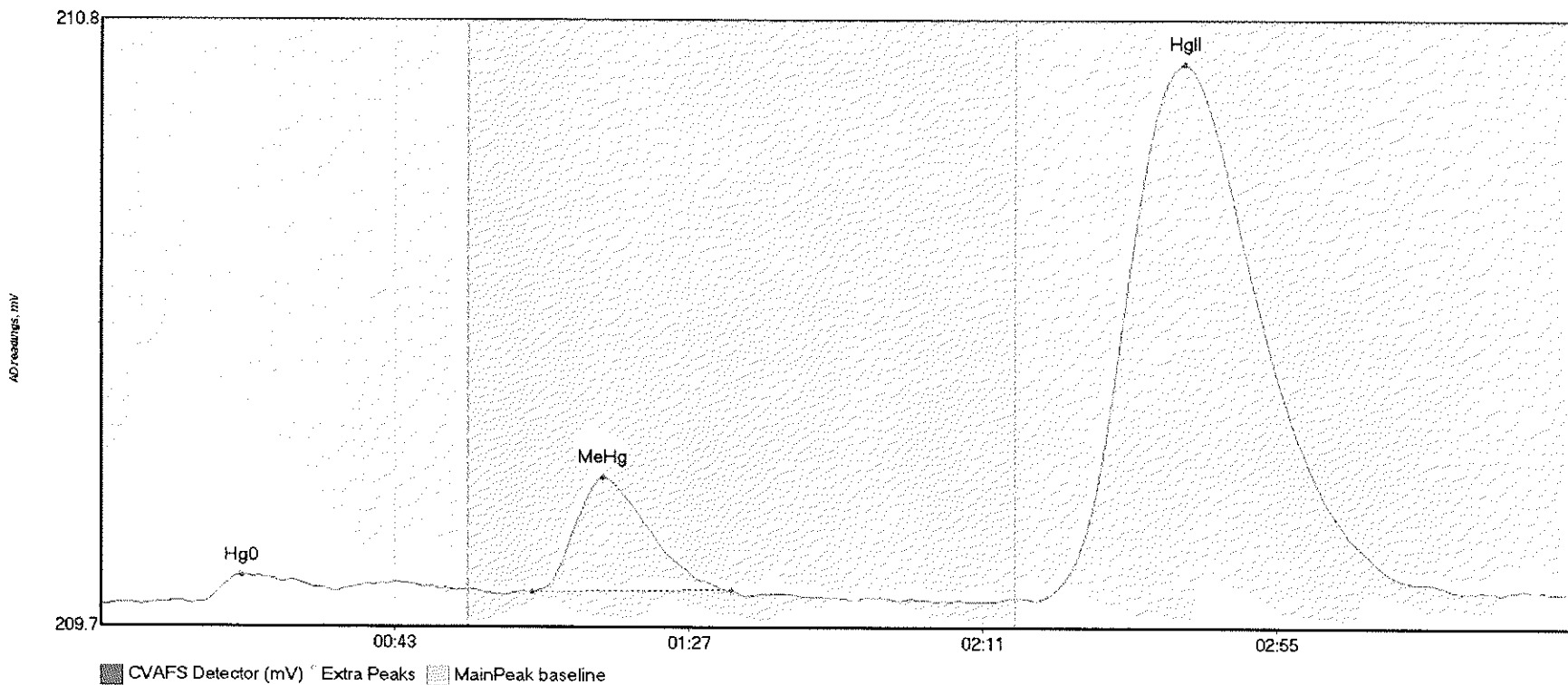
#31: 1708151-12



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-12 Hg0	10.983	13.5	55.0	209.76	209.78	22.6	0.066	CT	209.7624	0.00	0.02	
1708151-12 MeHg	14.324	64.5	90.3	209.77	209.79	74.9	0.129	OK	209.7624	0.00	0.02	
1708151-12 HgII	536.113	138.5	219.8	209.76	209.78	161.5	2.295	CT	209.7624	0.00	0.02	

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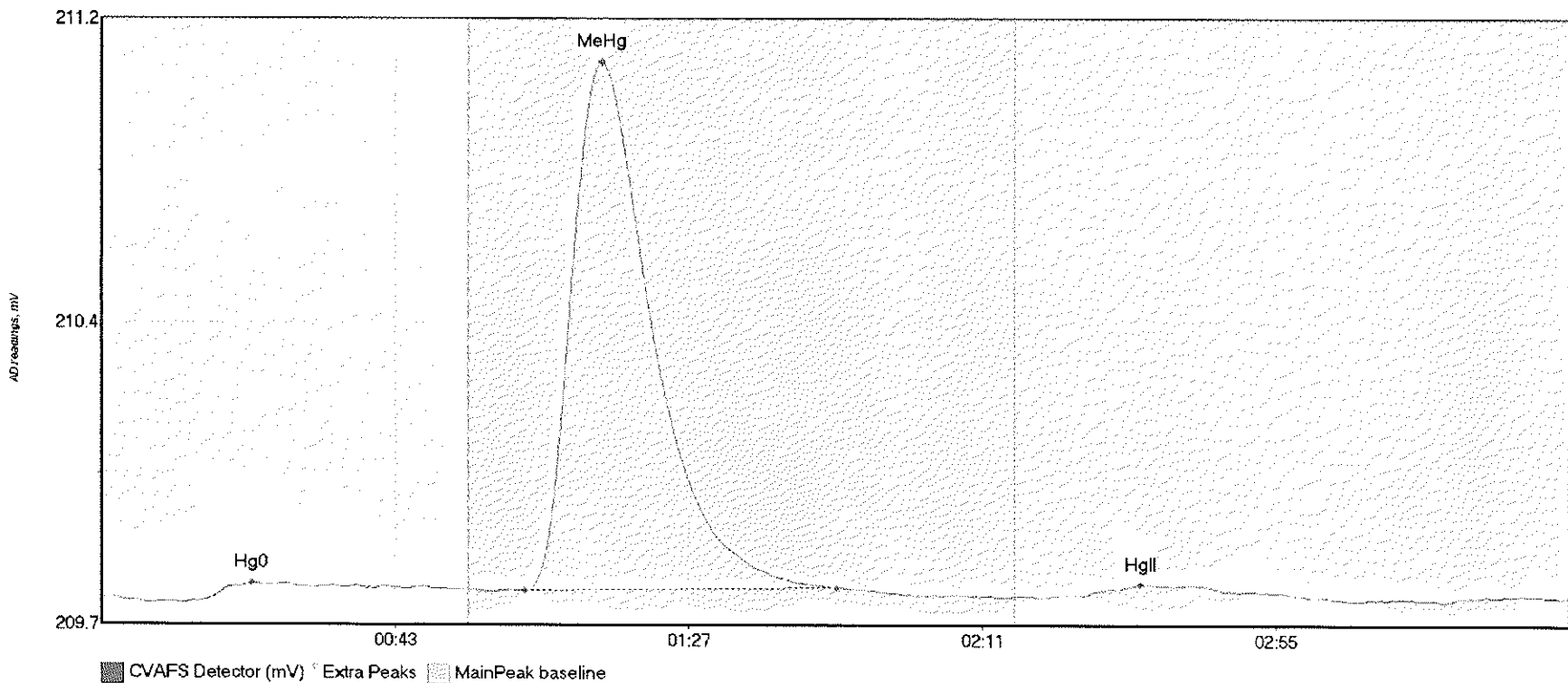
#32: 1708151-13



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-13 Hg0	4.749	13.7	35.2	209.76	209.79	21.2	0.051	OK	209.7620	0.00	0.02	
1708151-13 MeHg	25.271	64.6	94.3	209.79	209.79	75.2	0.202	OK	209.7620	0.00	0.02	
1708151-13 HgII	219.567	140.1	209.5	209.77	209.78	162.2	0.953	OK	209.7620	0.00	0.02	

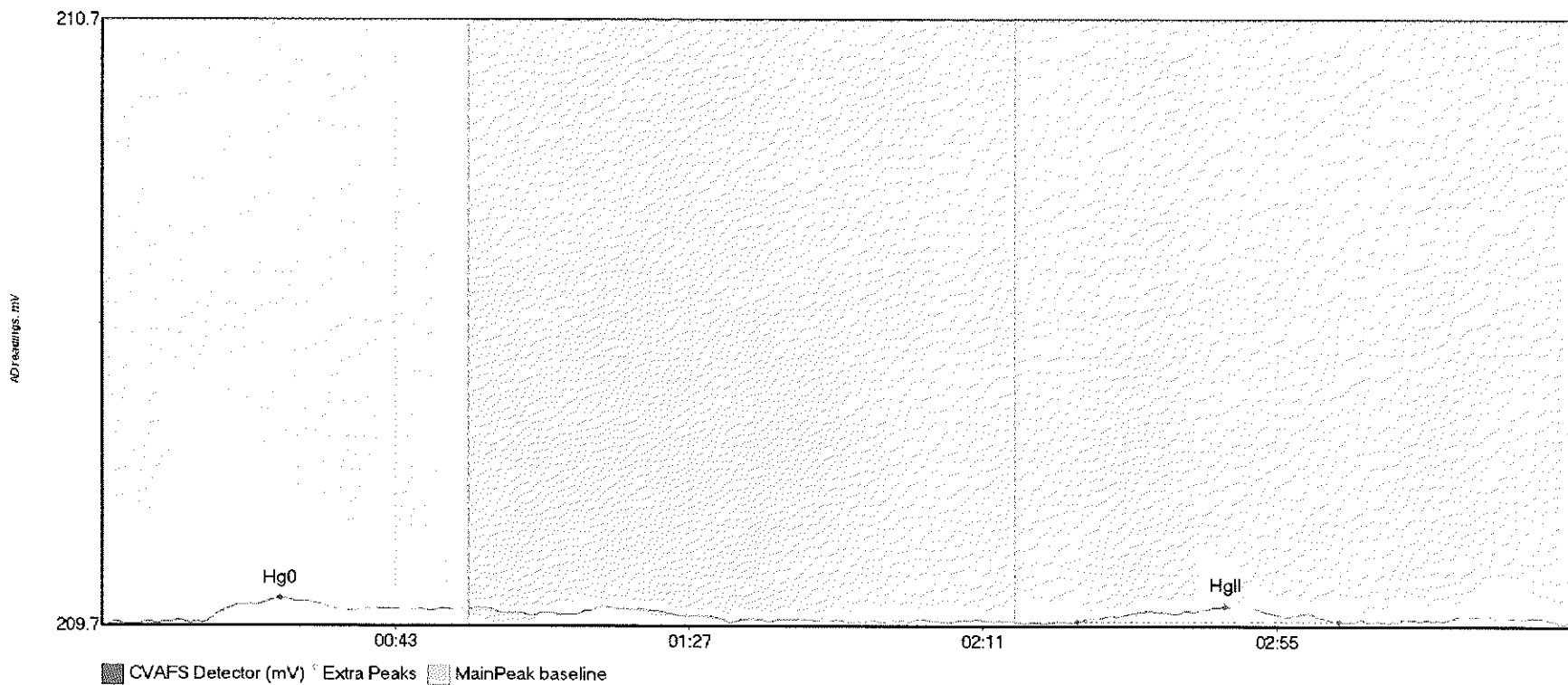
017

#33: SEQ-CCV2



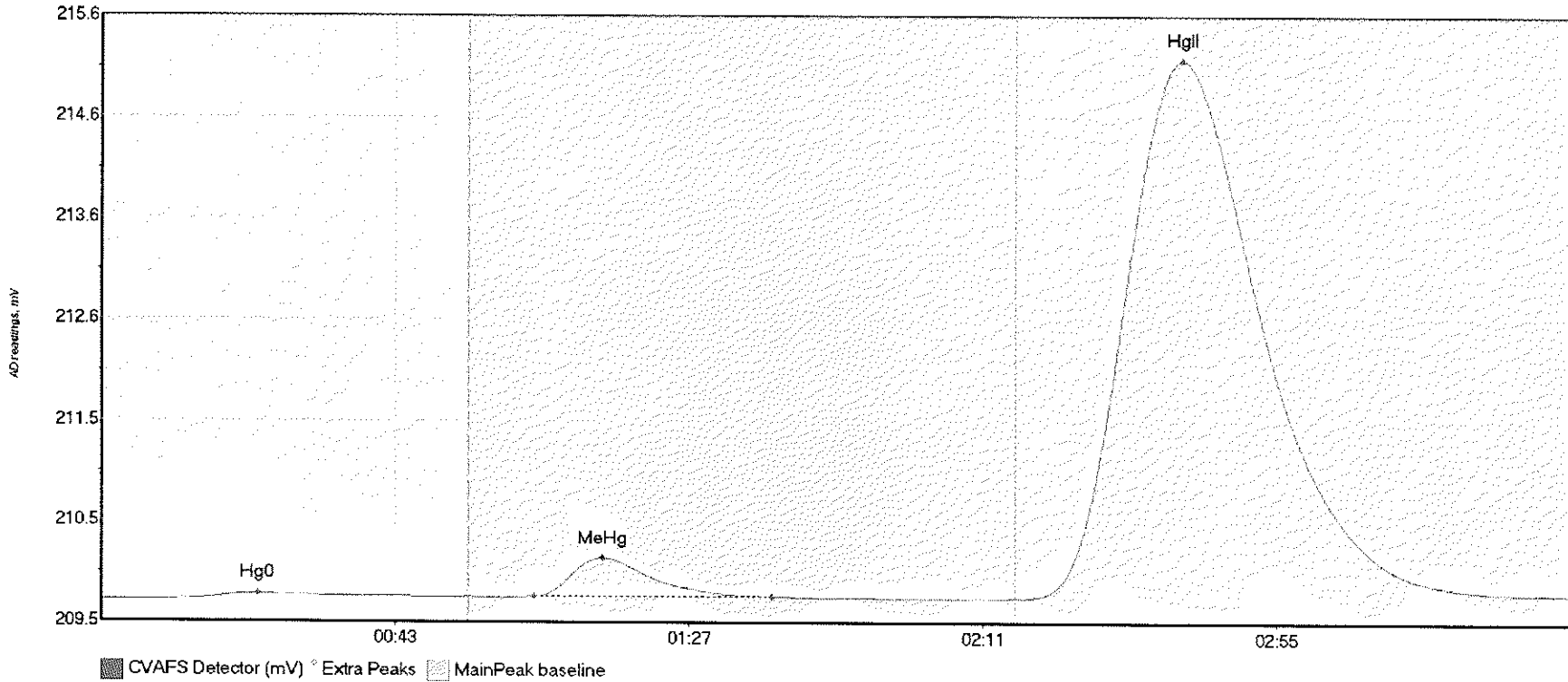
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV2 Hg0	7.279	14.3	53.1	209.76	209.79	22.5	0.044	OK	209.7672	0.00	0.00	
SEQ-CCV2 MeHg	177.393	63.4	110.1	209.79	209.79	75.0	1.265	OK	209.7672	0.00	0.00	
SEQ-CCV2 HgII	5.117	147.1	178.6	209.77	209.77	155.7	0.028	OK	209.7672	0.00	0.00	

#34: SEQ-CCB2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB2 Hg0	3.976	15.0	37.4	209.75	209.77	26.7	0.041	OK	209.7469	0.00	0.00	
SEQ-CCB2 HgII	5.576	146.1	185.3	209.75	209.75	168.3	0.025	OK	209.7469	0.00	0.00	017

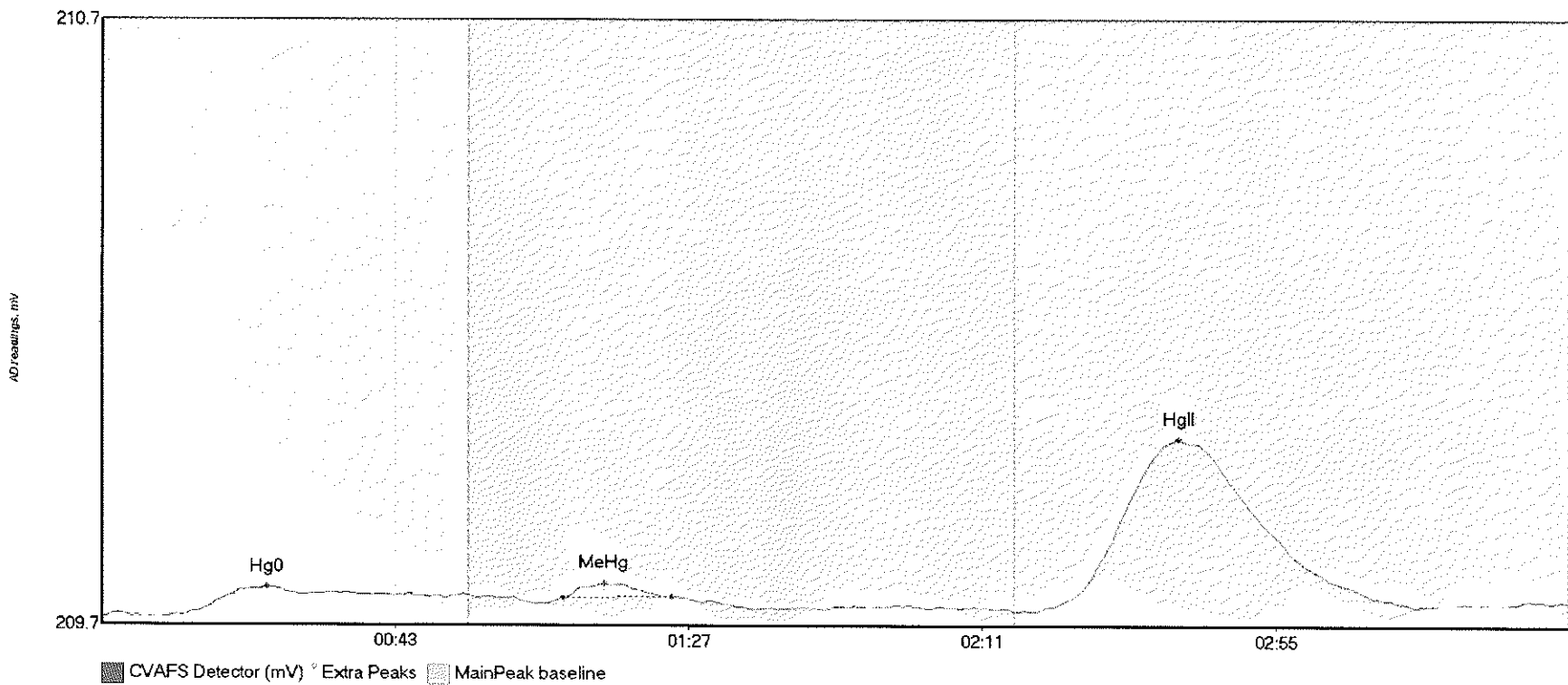
#35: 1708151-14



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-14 Hg0	8.937	11.3	50.3	209.75	209.77	23.5	0.056	OK	209.7438	0.00	0.06	
1708151-14 MeHg	51.779	64.9	100.5	209.78	209.78	75.1	0.386	OK	209.7438	0.00	0.06	
1708151-14 HgII	1258.809	138.1	219.8	209.77	209.80	161.7	5.404	CT	209.7438	0.00	0.06	

017

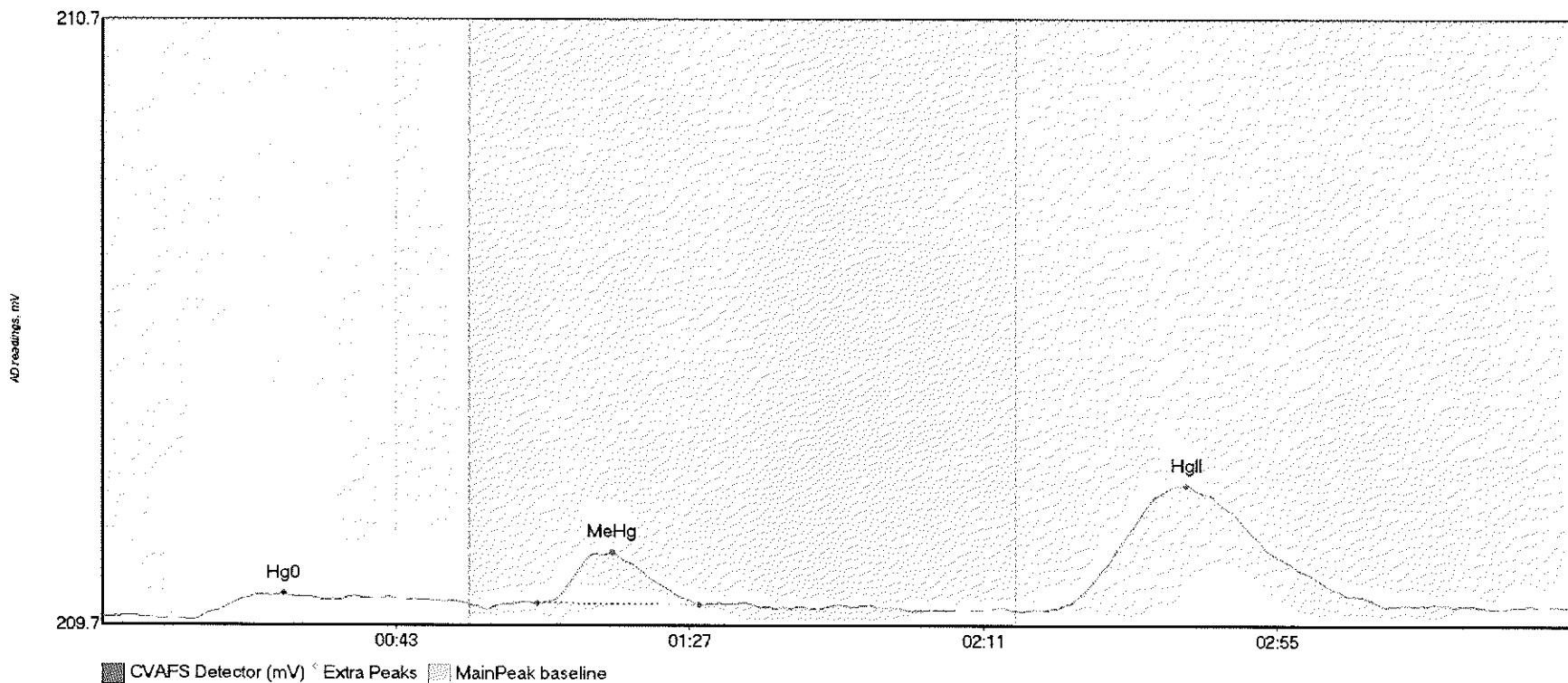
#36: 1708151-15



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-15 Hg0	7.029	12.0	51.6	209.75	209.78	24.9	0.047	OK	209.7509	0.00	0.03	
1708151-15 MeHg	2.159	69.2	85.4	209.78	209.78	75.3	0.025	OK	209.7509	0.00	0.03	
1708151-15 HgII	65.435	140.3	197.0	209.76	209.77	161.4	0.284	OK	209.7509	0.00	0.03	

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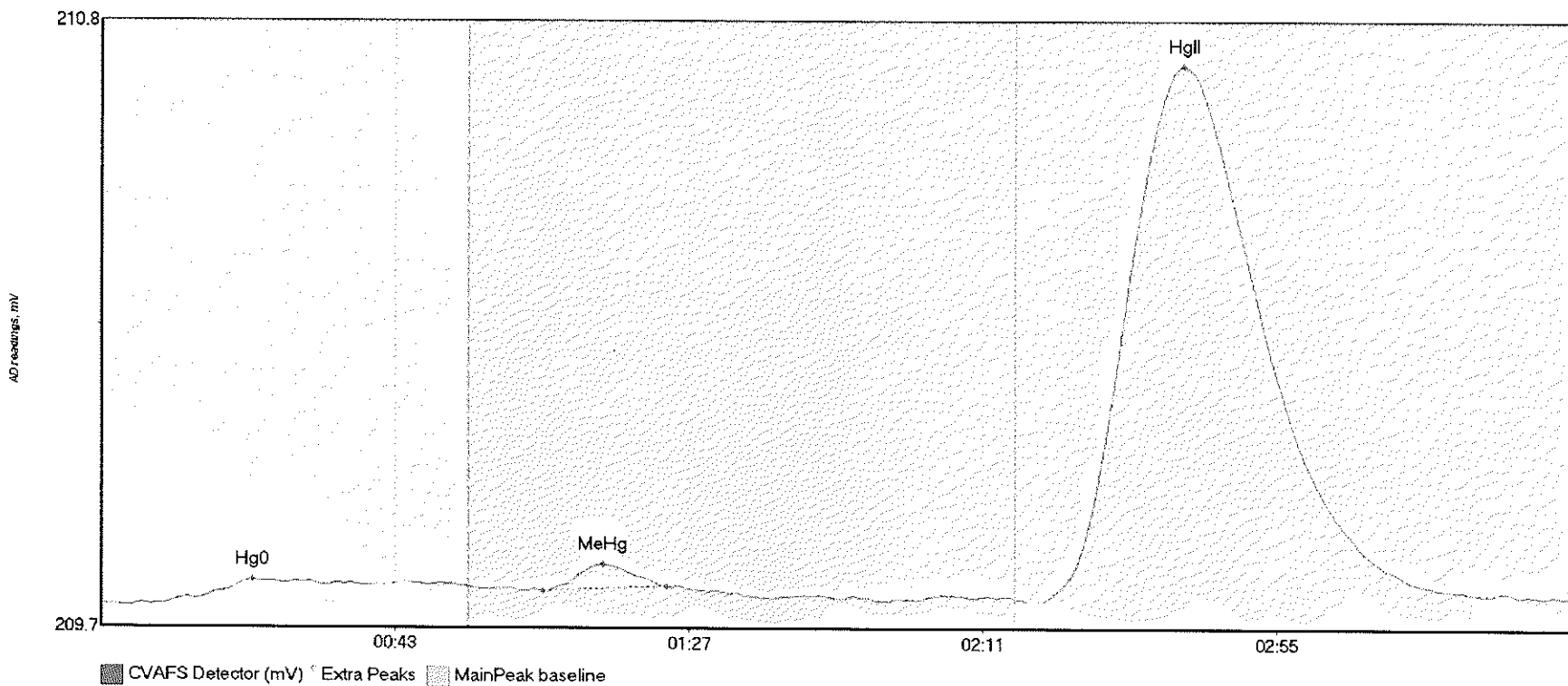
#37: 1708151-16



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-16 Hg0	8.191	13.4	55.0	209.75	209.78	27.1	0.043	CT	209.7550	0.00	0.02	
1708151-16 MeHg	10.310	65.1	89.5	209.78	209.77	76.4	0.084	OK	209.7550	0.00	0.02	
1708151-16 HgII	49.703	141.2	208.7	209.77	209.77	162.4	0.206	OK	209.7550	0.00	0.02	

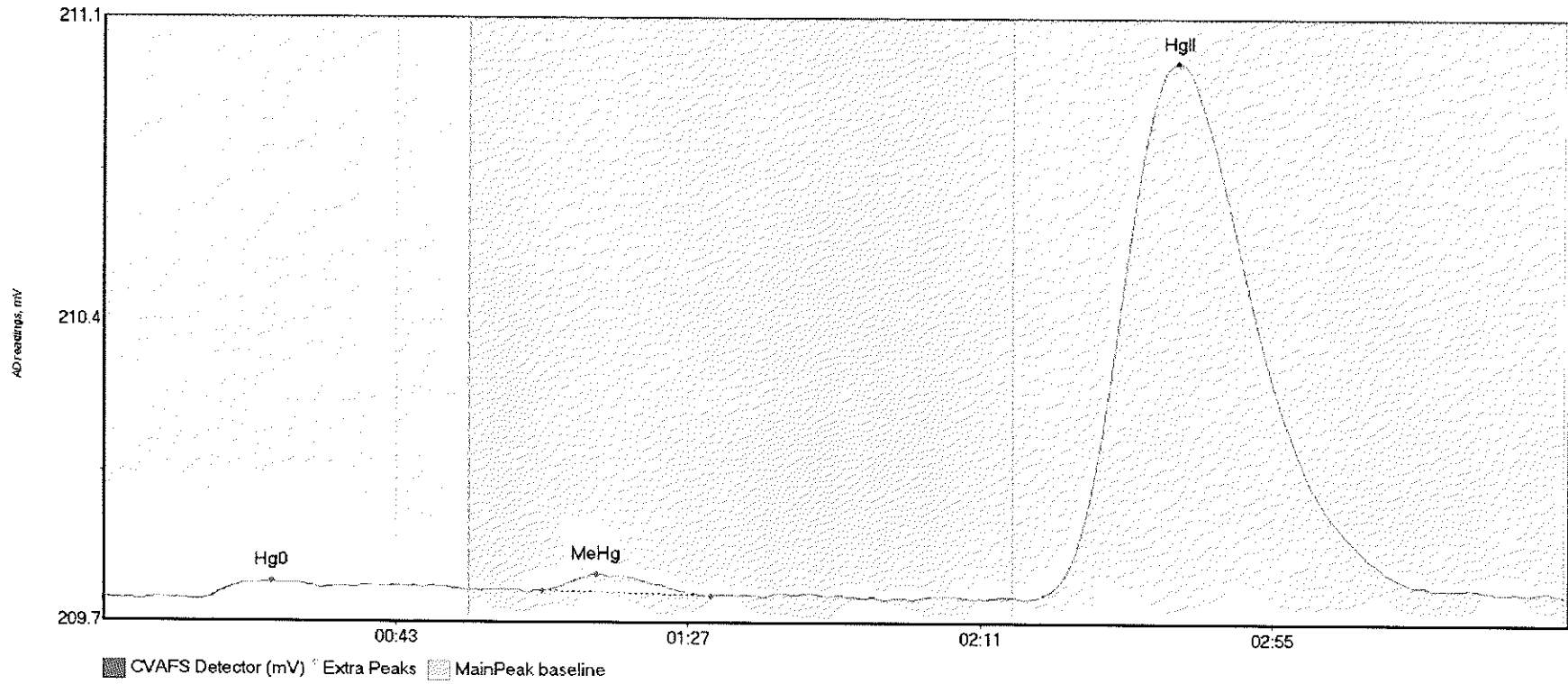


#38: 1708151-17



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-17 Hg0	7.641	9.0	55.0	209.75	209.78	22.7	0.044	CT	209.7462	0.00	0.02	
1708151-17 MeHg	4.225	66.2	84.6	209.77	209.78	75.2	0.050	OK	209.7462	0.00	0.02	
1708151-17 HgII	229.842	140.1	215.9	209.75	209.76	162.1	0.993	OK	209.7462	0.00	0.02	

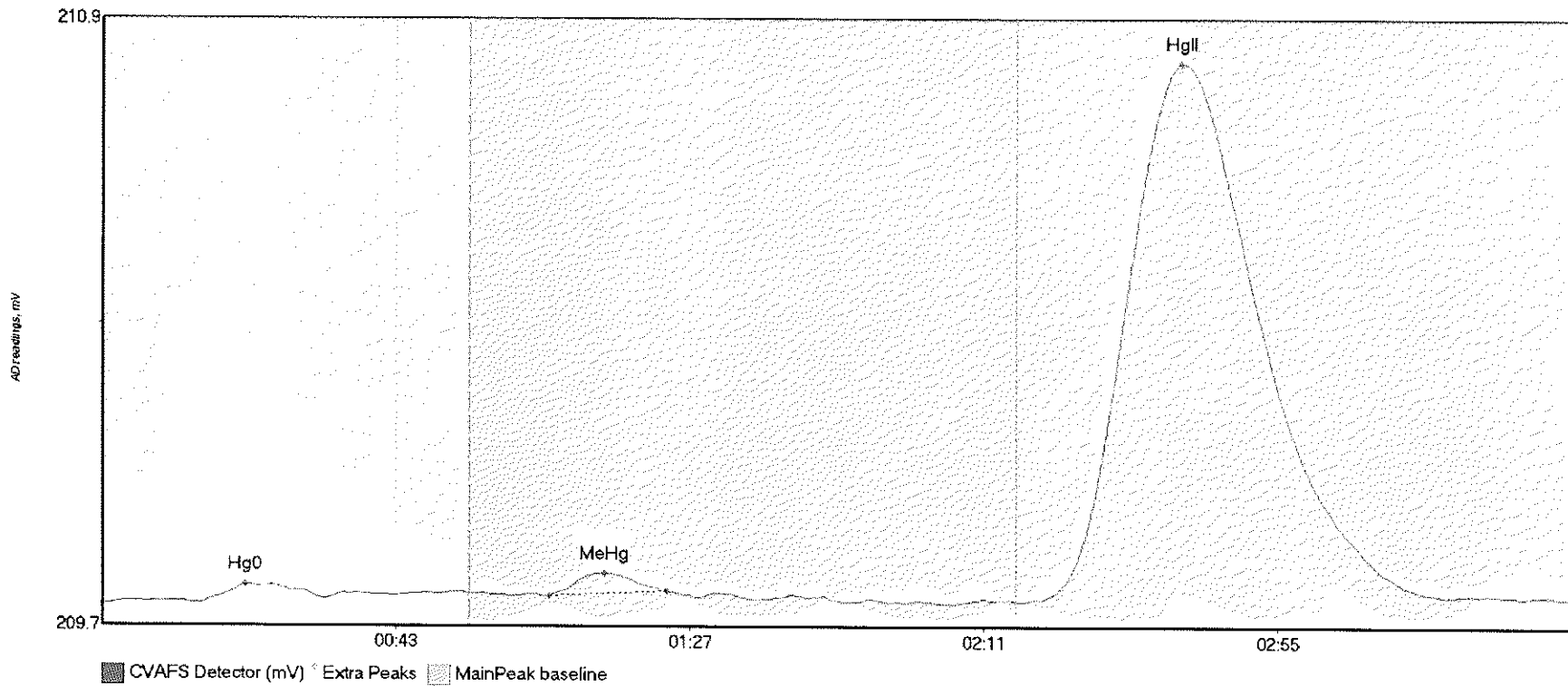
#39: 1708151-18



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-18 Hg0	7.579	14.6	55.0	209.75	209.77	25.3	0.042	CT	209.7550	0.00	0.01	
1708151-18 MeHg	5.877	66.0	91.4	209.77	209.76	74.2	0.040	OK	209.7550	0.00	0.01	
1708151-18 HgII	293.666	140.1	219.8	209.76	209.77	161.7	1.268	CT	209.7550	0.00	0.01	

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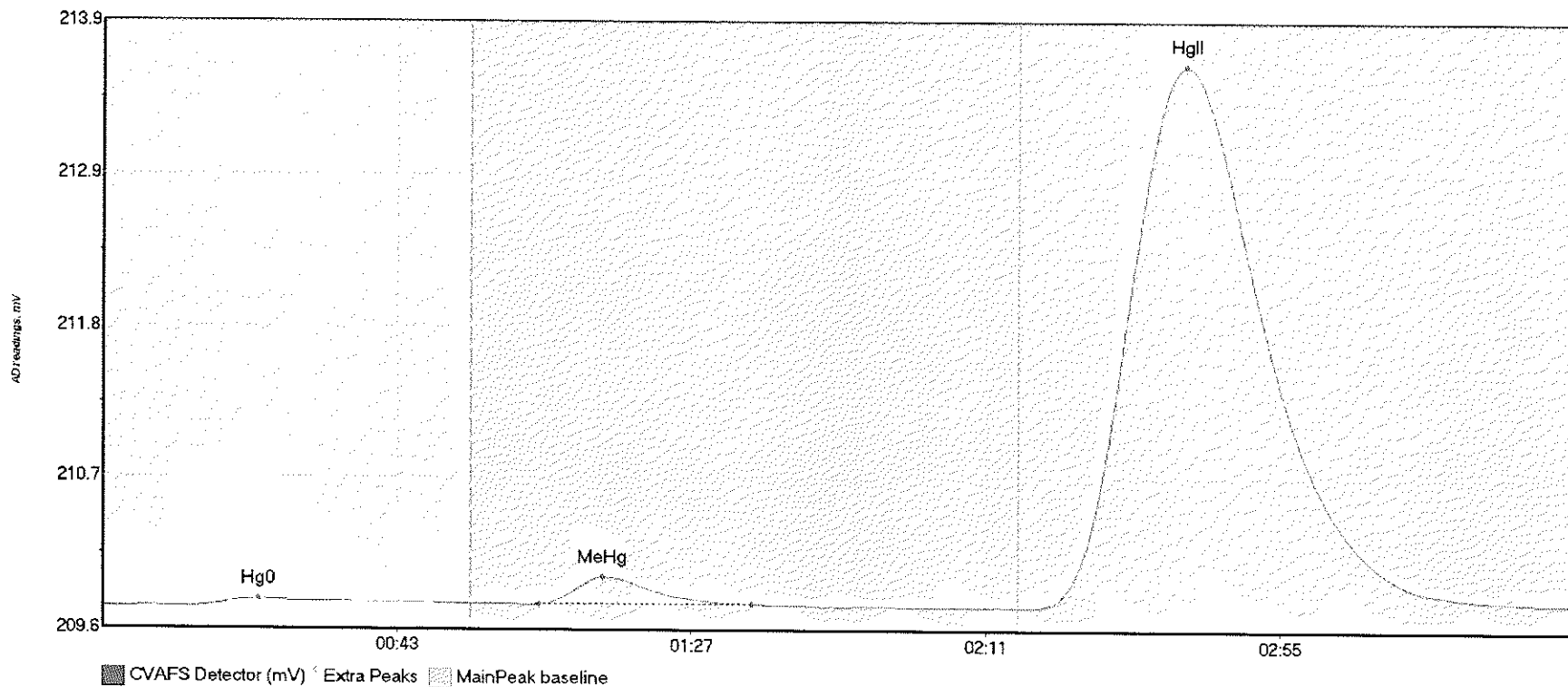
#40: 1708151-19



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-19 Hg0	3.537	14.6	33.3	209.76	209.77	21.5	0.037	OK	209.7543	0.00	0.01	
1708151-19 MeHg	4.062	66.8	84.5	209.77	209.78	75.2	0.045	OK	209.7543	0.00	0.01	
1708151-19 HgII	241.405	140.5	219.8	209.76	209.77	161.5	1.057	CT	209.7543	0.00	0.01	

017

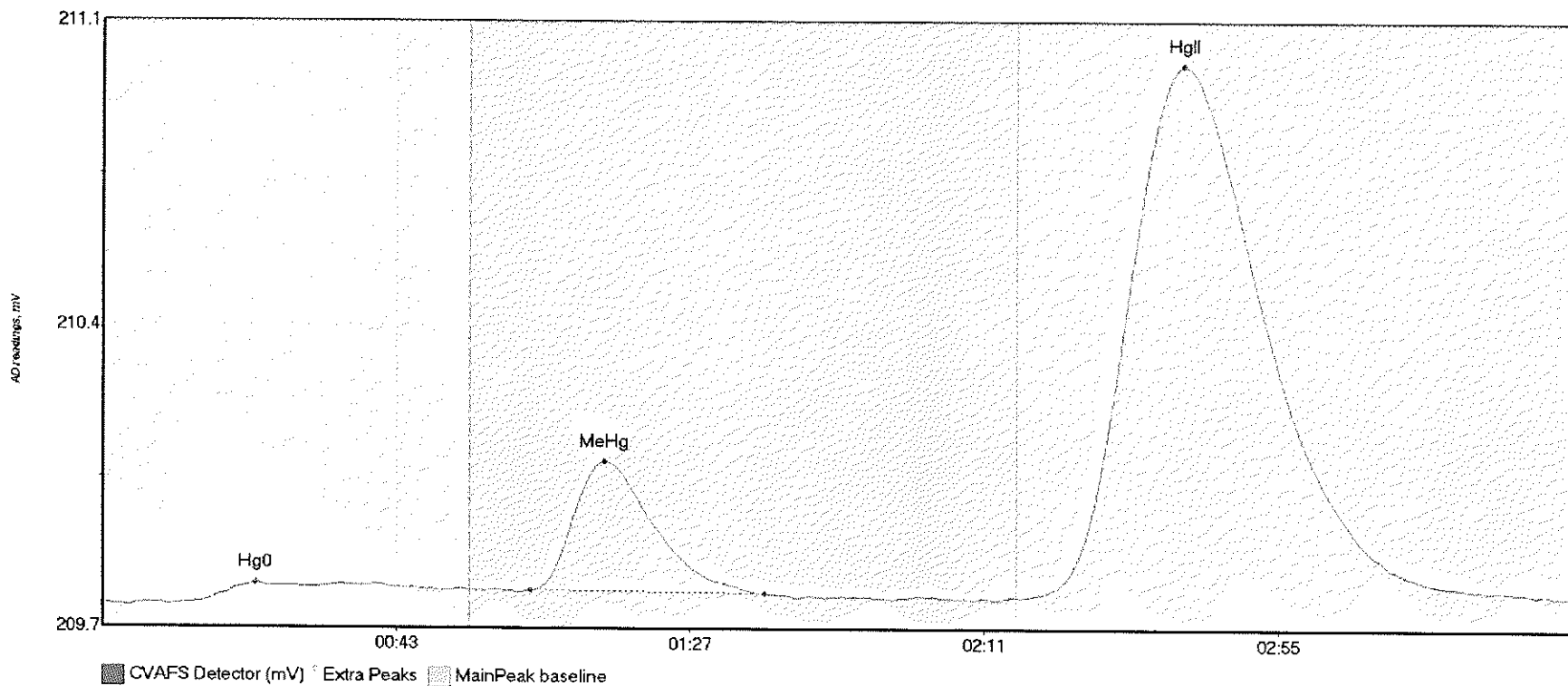
#41: 1708151-20



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-20 Hg0	8.397	13.7	55.0	209.76	209.78	23.3	0.052	CT	209.7589	0.00	0.03	
1708151-20 MeHg	25.495	65.2	97.0	209.78	209.78	74.8	0.195	OK	209.7589	0.00	0.03	
1708151-20 HgII	894.788	139.6	219.8	209.76	209.79	161.8	3.874	CT	209.7589	0.00	0.03	

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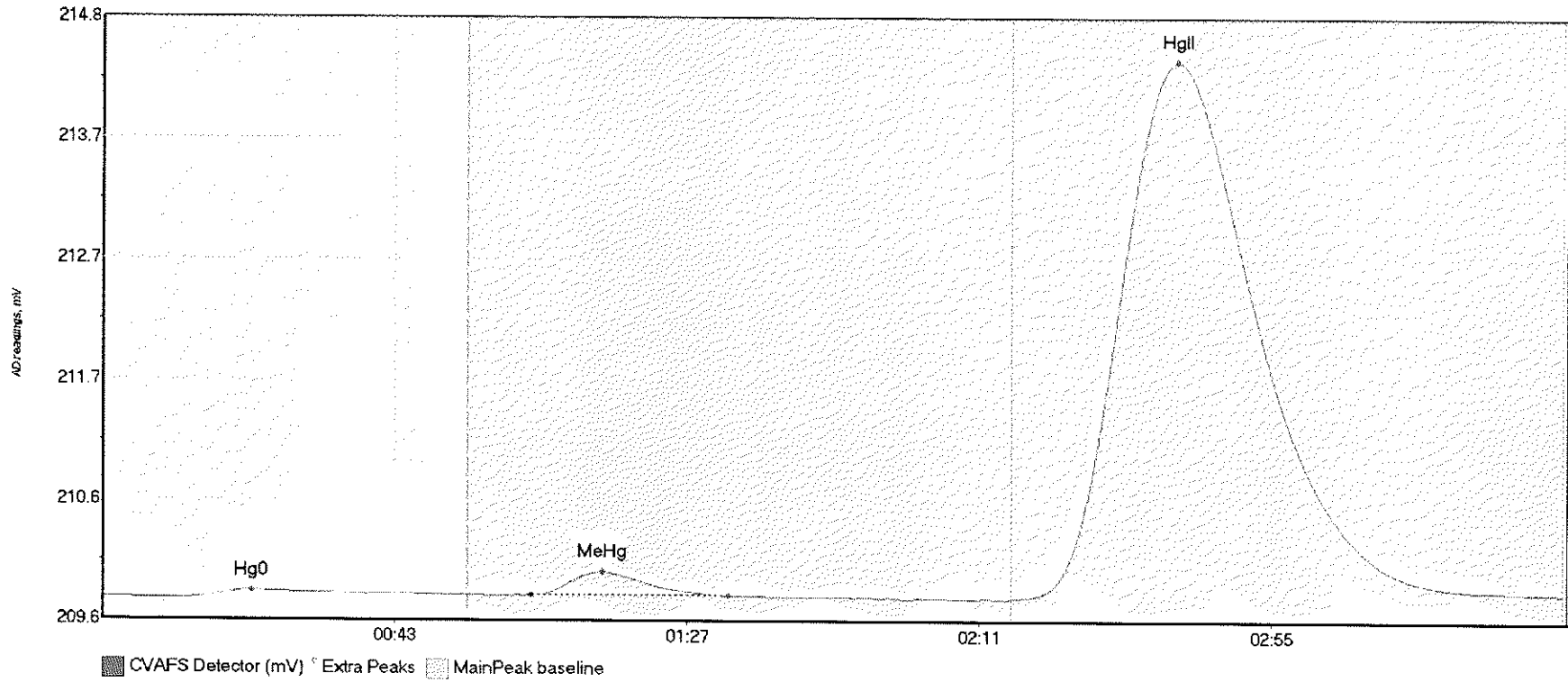
#42: 1708151-21



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-21 Hg0	7.421	14.0	50.9	209.75	209.78	23.0	0.045	OK	209.7505	0.00	0.02	
1708151-21 MeHg	42.336	64.1	99.1	209.78	209.78	75.2	0.307	OK	209.7505	0.00	0.02	
1708151-21 HgII	298.301	138.2	217.3	209.77	209.77	161.8	1.264	OK	209.7505	0.00	0.02	

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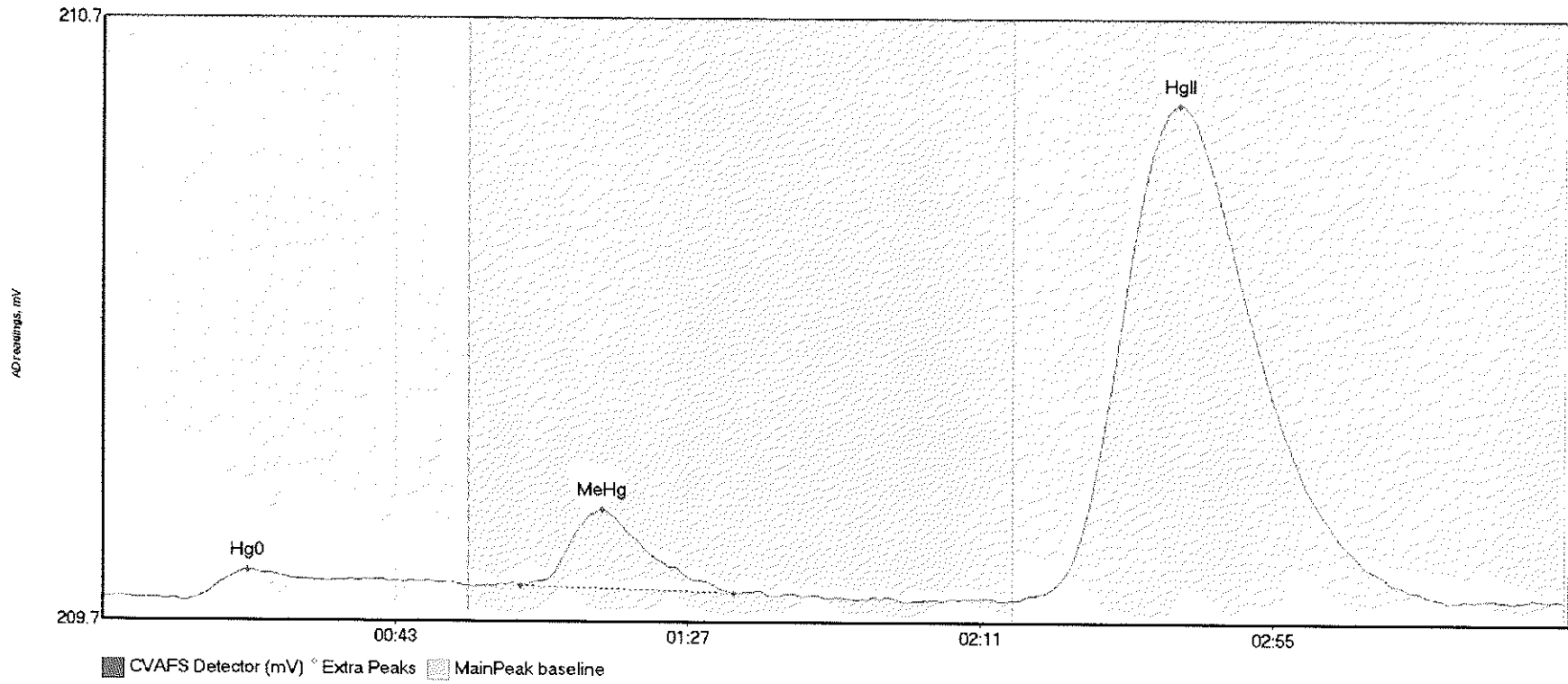
#43: 1708151-22



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-22 Hg0	9.704	14.1	51.5	209.76	209.79	22.5	0.059	OK	209.7667	0.00	0.04	
1708151-22 MeHg	26.253	64.6	94.2	209.79	209.78	75.3	0.202	OK	209.7667	0.00	0.04	
1708151-22 HgII	1089.097	136.8	219.8	209.76	209.81	161.8	4.648	CT	209.7667	0.00	0.04	

017

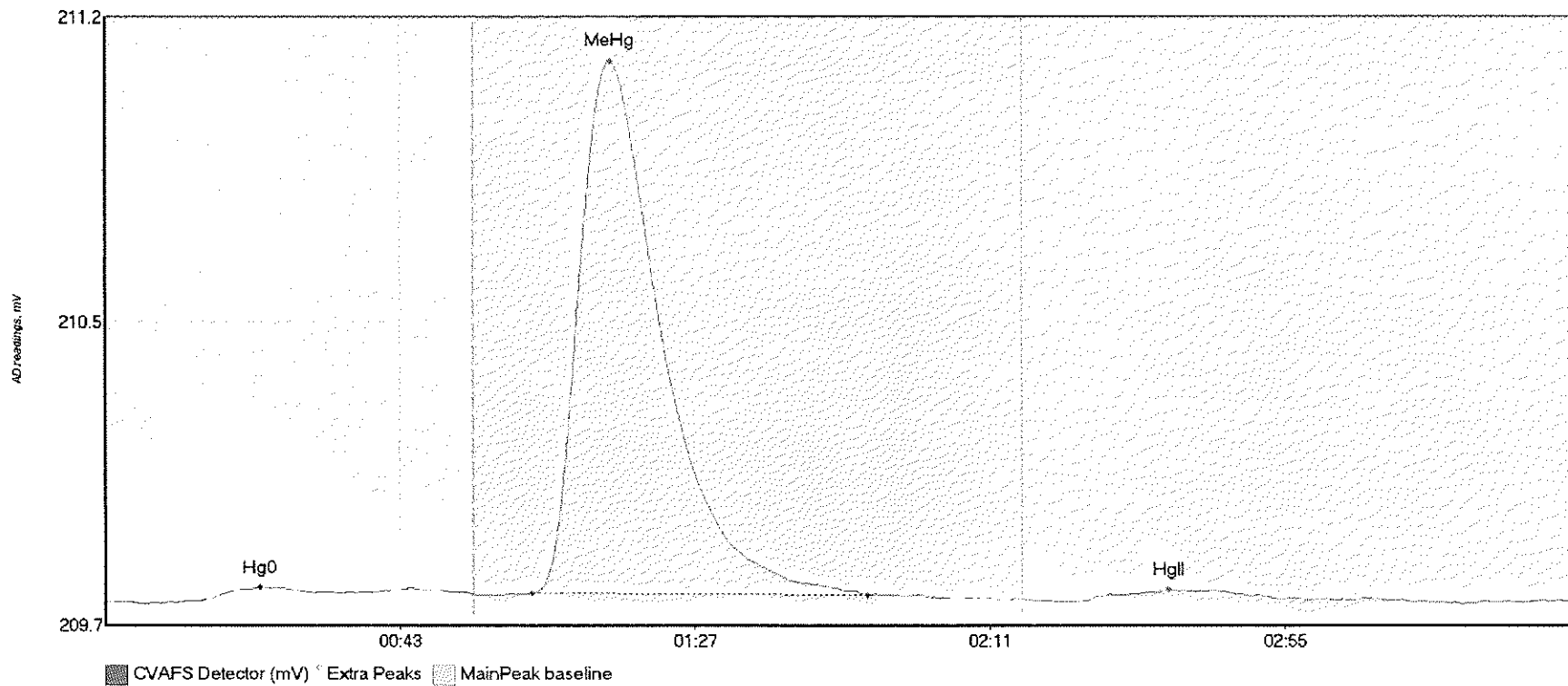
#44: 1708151-23



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-23 Hg0	8.734	12.4	55.0	209.76	209.78	21.9	0.051	CT	209.7616	0.00	0.00	
1708151-23 MeHg	17.117	62.9	94.9	209.78	209.77	75.1	0.127	OK	209.7616	0.00	0.00	
1708151-23 HgII	189.077	137.4	200.6	209.76	209.76	161.9	0.822	OK	209.7616	0.00	0.00	

017

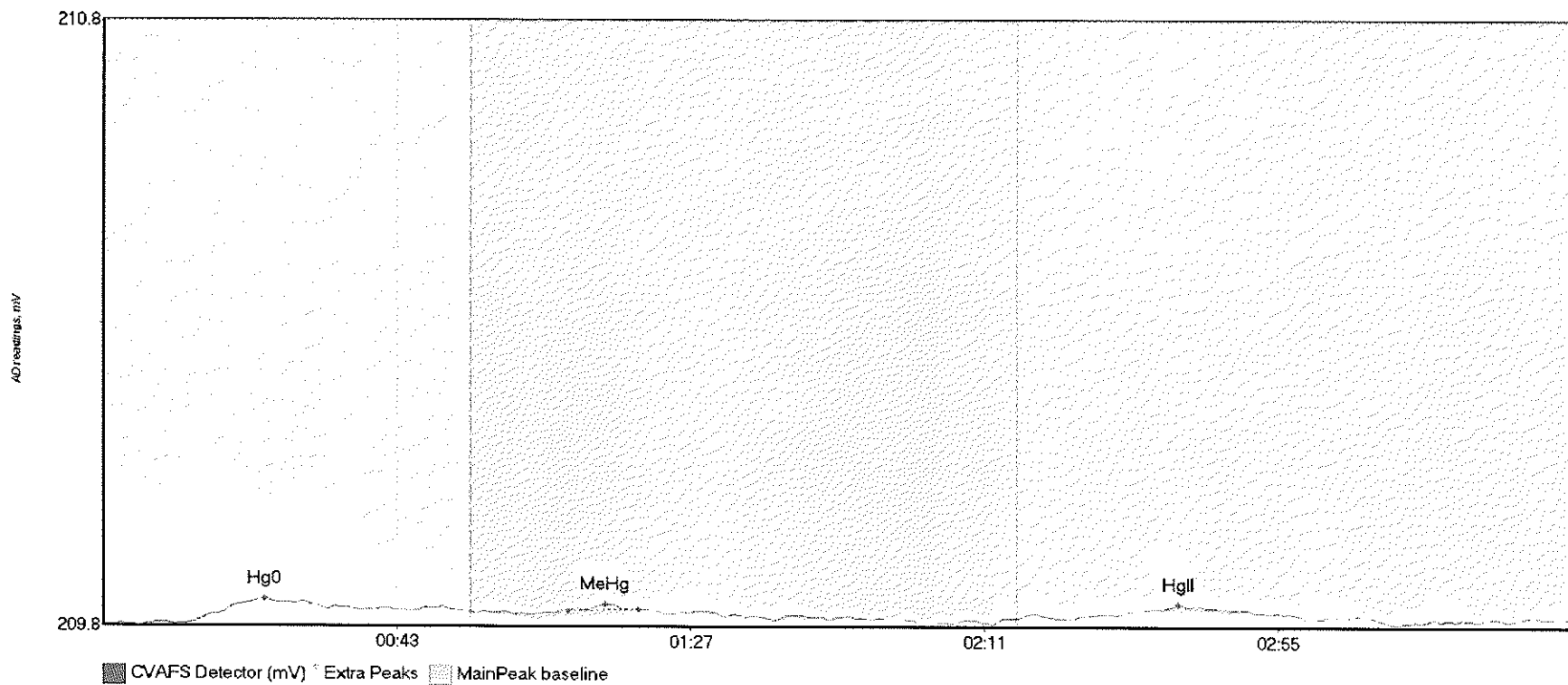
#45: SEQ-CCV3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV3 Hg0	6.688	13.7	55.0	209.76	209.77	23.2	0.035	CT	209.7556	0.00	0.00	
SEQ-CCV3 MeHg	195.680	63.7	113.8	209.77	209.77	75.4	1.362	OK	209.7556	0.00	0.00	
SEQ-CCV3 HgII	4.597	145.9	175.0	209.76	209.76	158.8	0.029	OK	209.7556	0.00	0.00	



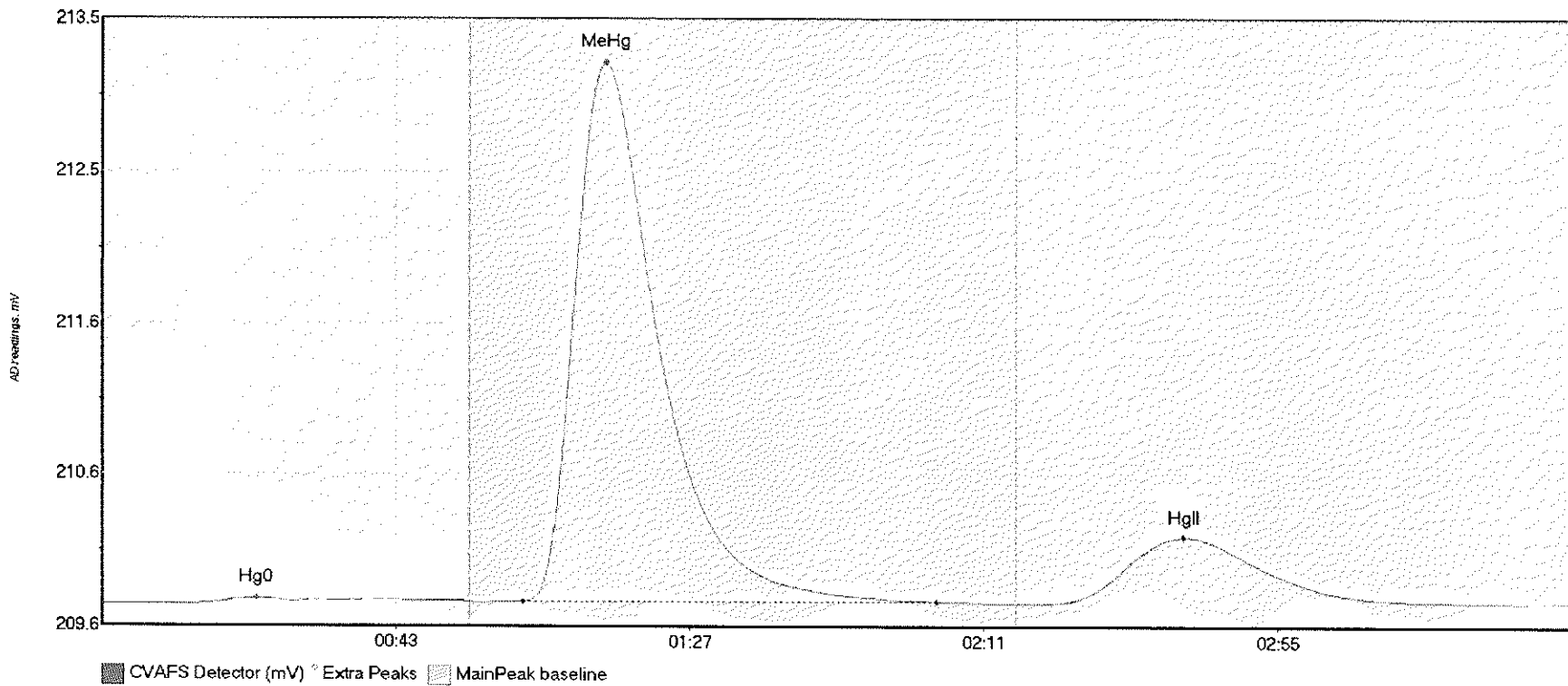
#46: SEQ-CCB3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	SlDev	SlShift	Comment
SEQ-CCB3 Hg0	6.223	13.5	55.0	209.76	209.78	24.2	0.037	CT	209.7546	0.00	0.01	
SEQ-CCB3 MeHg	0.447	69.6	80.1	209.78	209.78	75.1	0.010	OK	209.7546	0.00	0.01	
SEQ-CCB3 HgII	3.323	151.6	180.7	209.77	209.76	161.1	0.019	OK	209.7546	0.00	0.01	

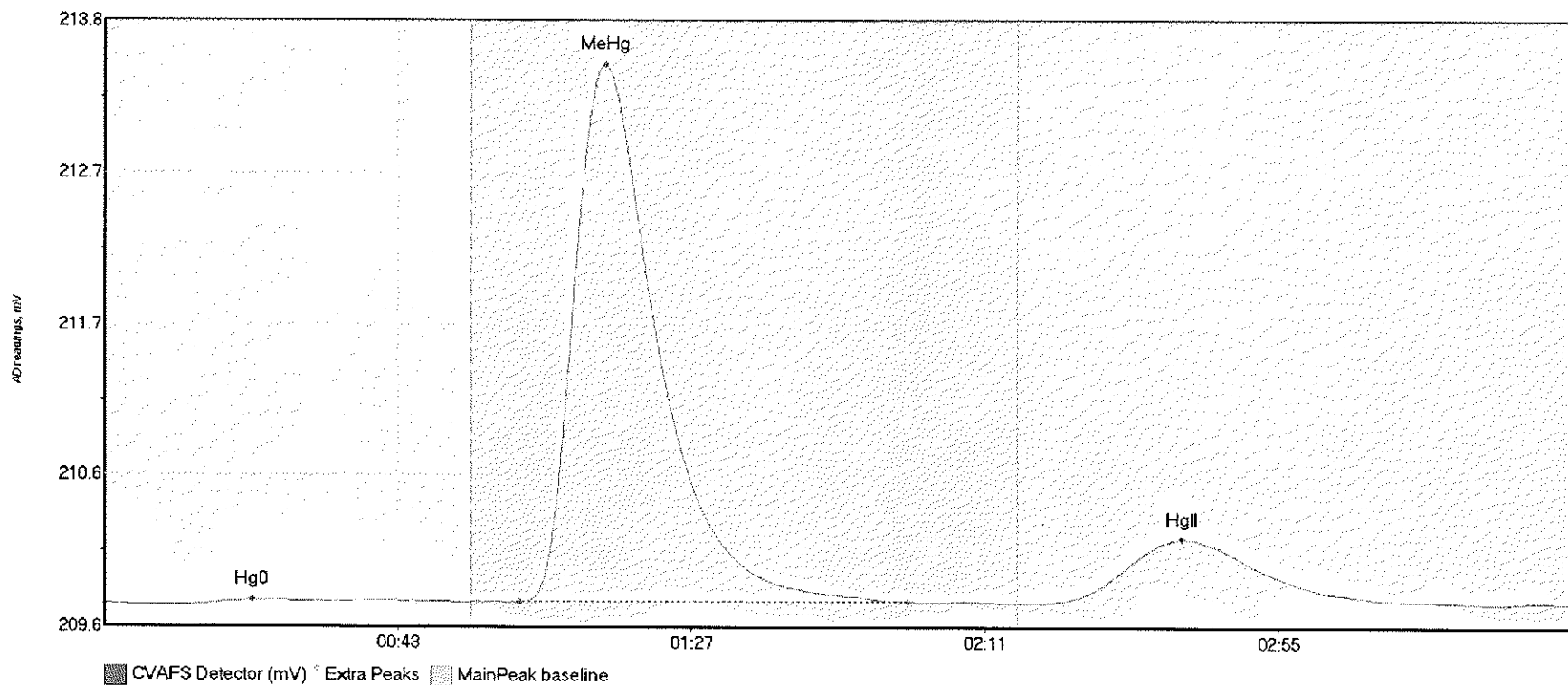
017

#47: F708475-BS2



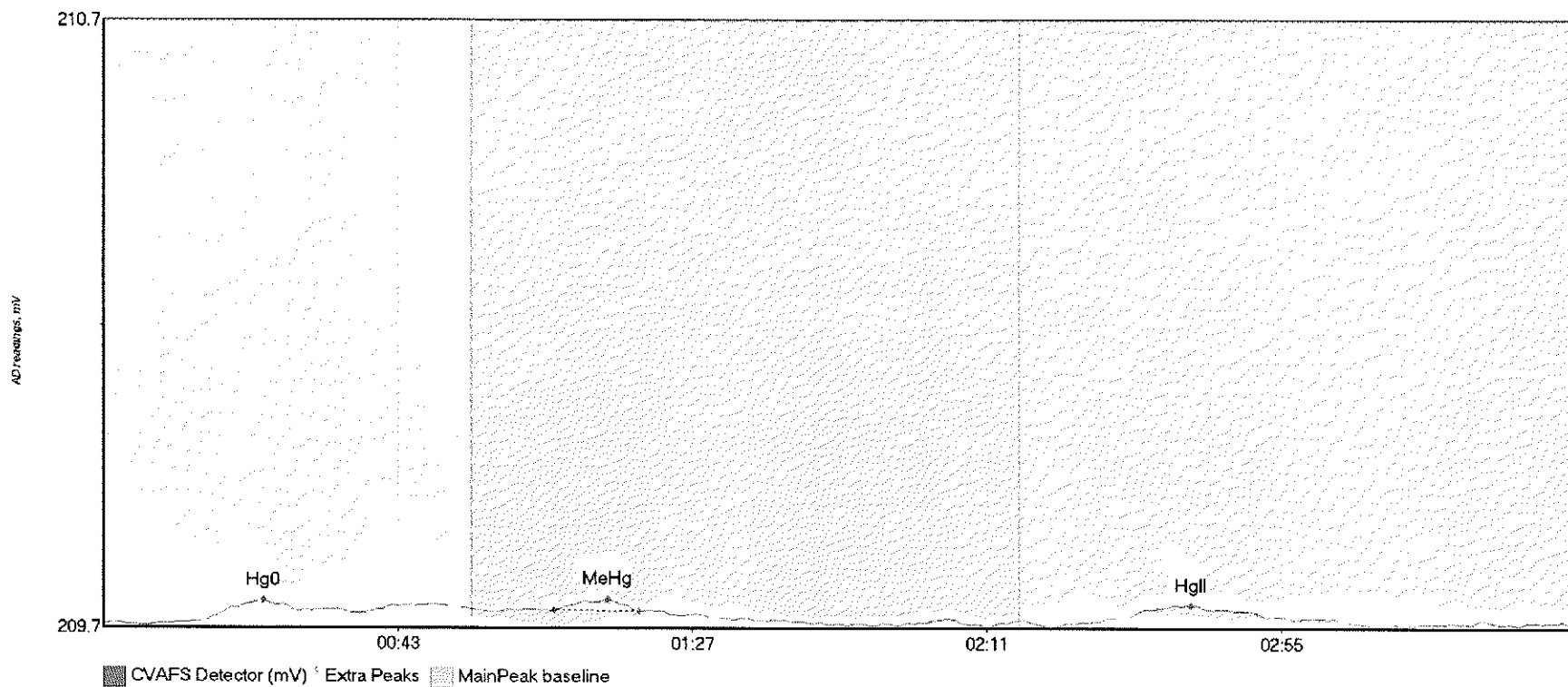
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BS2 Hg0	6.167	14.7	55.0	209.75	209.77	23.1	0.035	CT	209.7500	0.00	0.01	
F708475-BS2 MeH	502.291	63.0	125.0	209.77	209.77	75.5	3.454	OK	209.7500	0.00	0.01	
F708475-BS2 HgI	96.074	142.2	204.0	209.76	209.76	161.9	0.422	OK	209.7500	0.00	0.01	

#48: F708475-BSD2



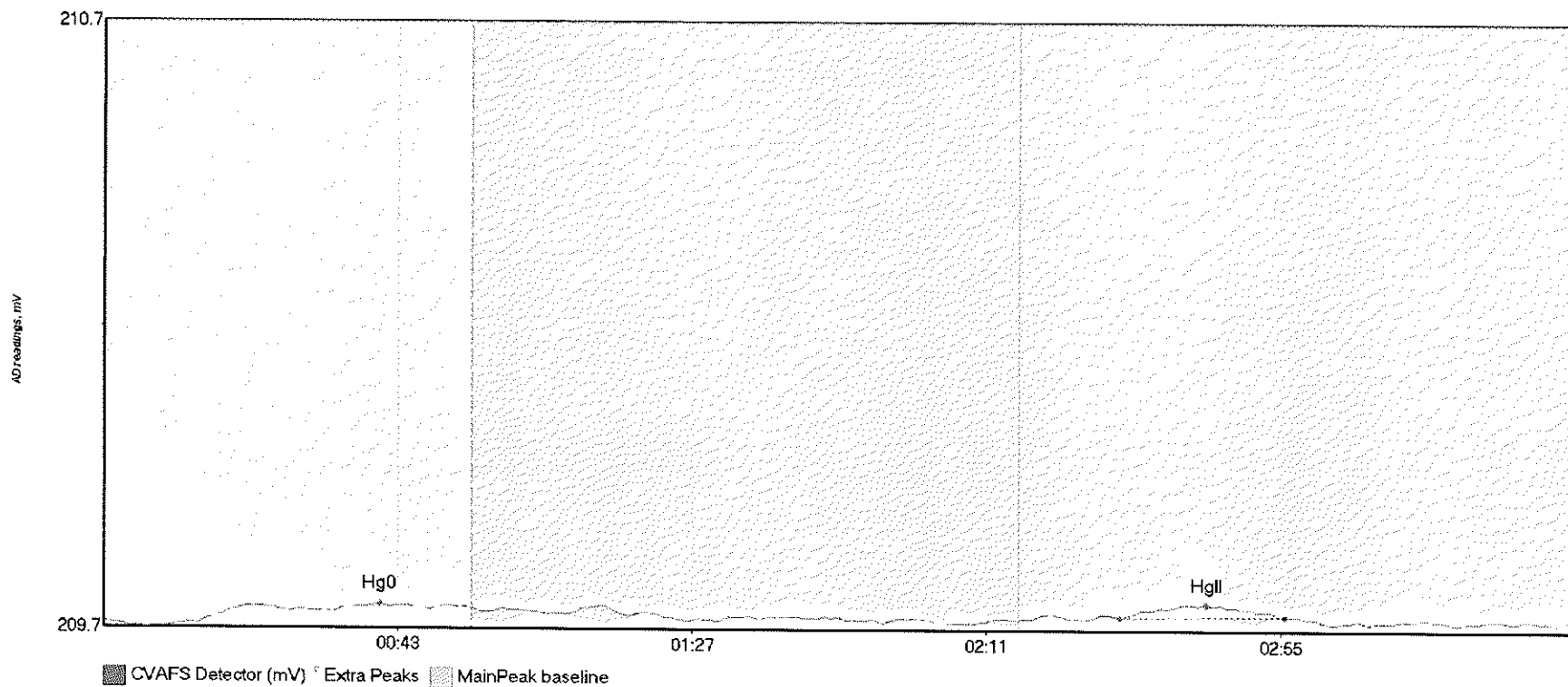
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BSD2 Hg	5.219	14.9	53.7	209.75	209.76	22.2	0.027	OK	209.7522	0.00	0.00	
F708475-BSD2 Me	539.123	62.3	120.5	209.76	209.77	75.1	3.726	OK	209.7522	0.00	0.00	
F708475-BSD2 Hg	102.651	138.8	204.4	209.75	209.75	161.5	0.447	OK	209.7522	0.00	0.00	

#49: F708477-BLK1



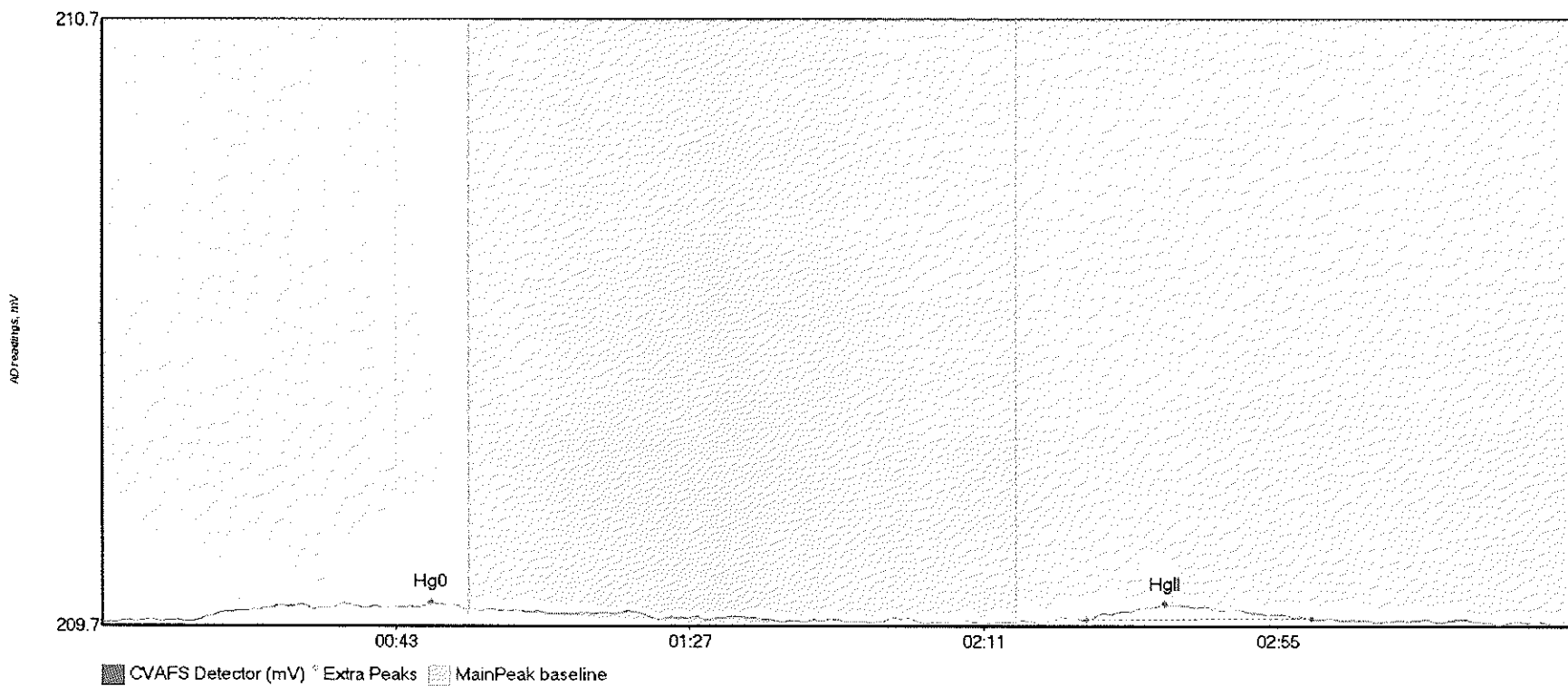
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-BLK1 Hg	3.234	14.1	38.1	209.74	209.76	23.9	0.034	OK	209.7406	0.00	0.00	
F708477-BLK1 Me	1.408	67.3	80.0	209.76	209.76	75.3	0.017	OK	209.7406	0.00	0.00	
F708477-BLK1 Hg	2.910	152.8	174.0	209.75	209.75	162.4	0.022	OK	209.7406	0.00	0.00	

#50: F708477-BLK2



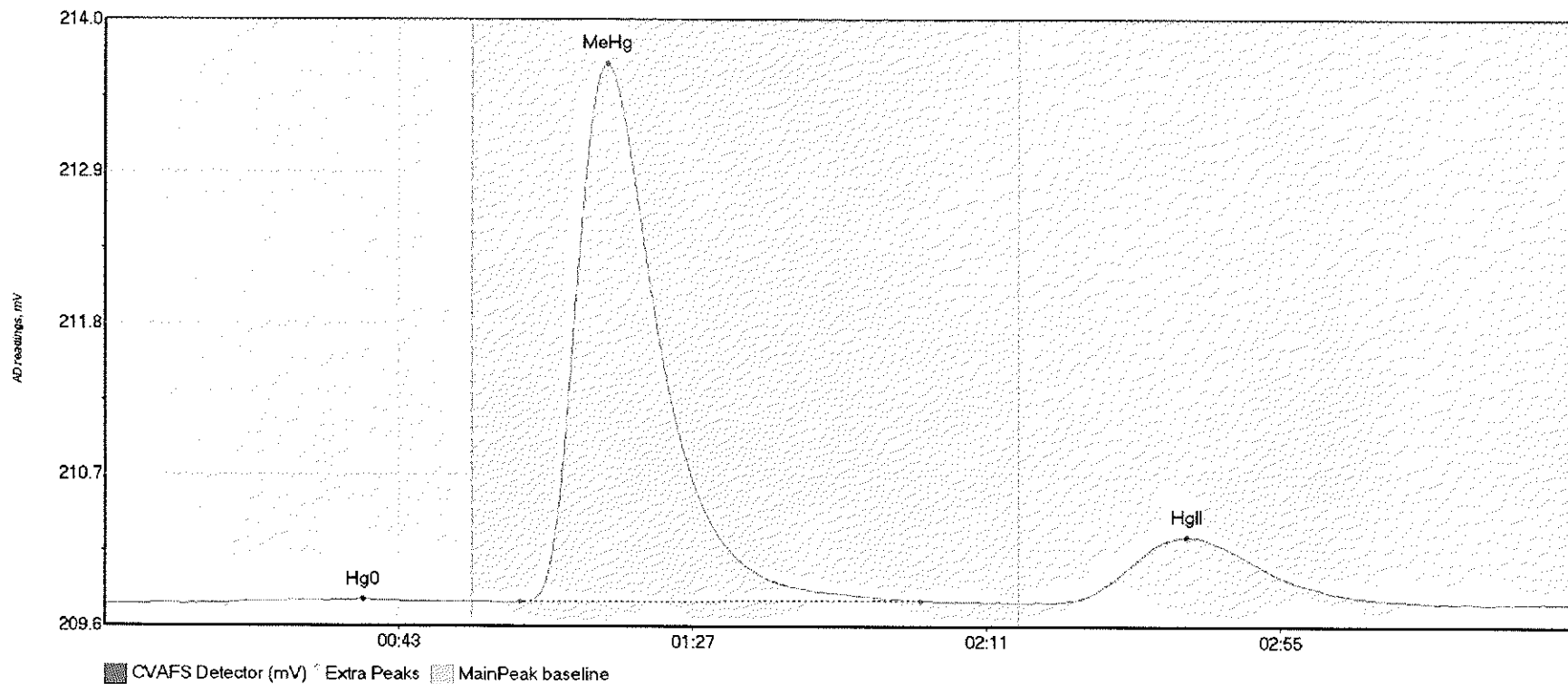
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-BLK2 Hg	4.021	14.1	48.7	209.73	209.75	41.3	0.031	OK	209.7299	0.00	0.01	
F708477-BLK2 Hg	3.252	151.9	176.6	209.74	209.74	164.9	0.022	OK	209.7299	0.00	0.01	017

#51: F708477-BLK3



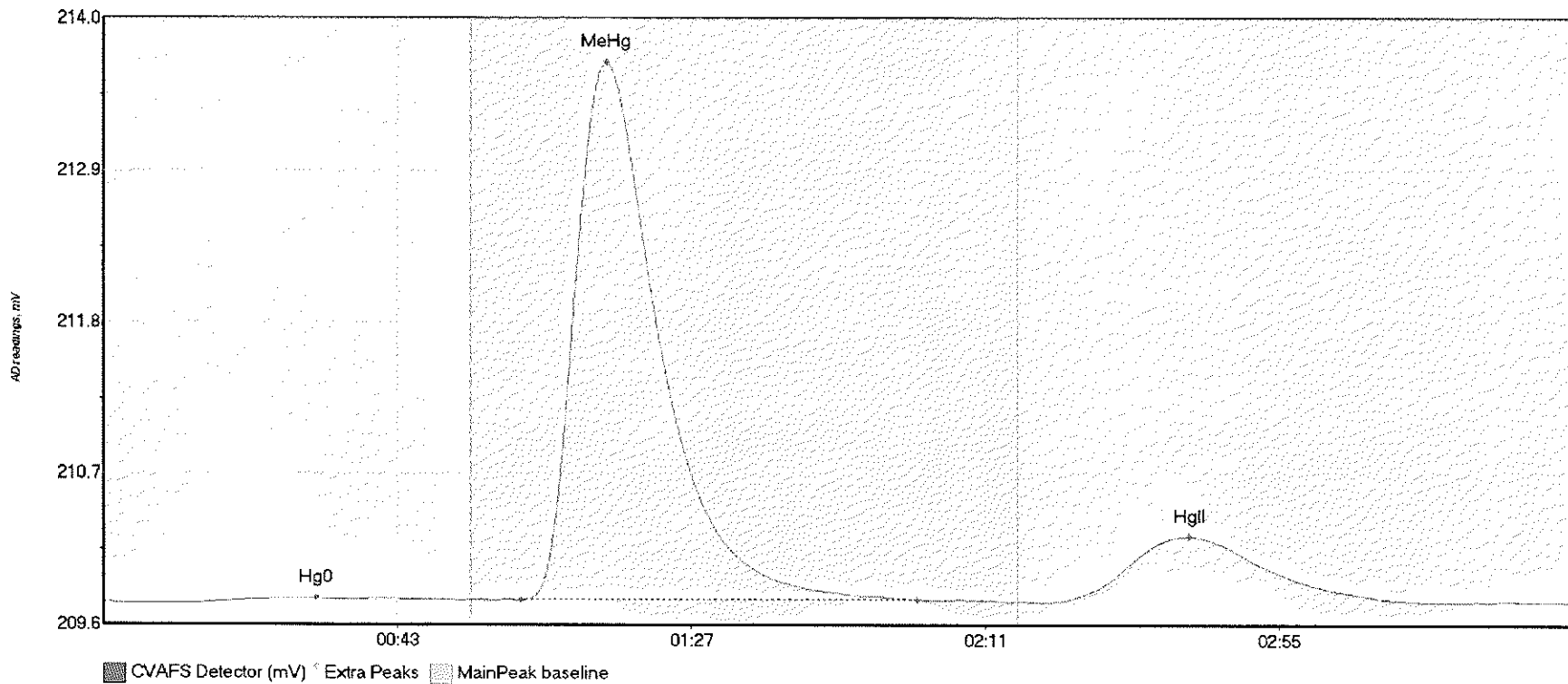
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-BLK3 Hg	4.635	13.5	54.3	209.73	209.75	49.3	0.030	OK	209.7318	0.00	0.00	
F708477-BLK3 Hg	4.672	147.4	181.1	209.74	209.74	159.2	0.027	OK	209.7318	0.00	0.00	017

#52: F708477-BS1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-BS1 Hg0	4.206	12.1	50.8	209.74	209.75	38.7	0.032	OK	209.7322	0.00	0.01	
F708477-BS1 MeH	563.633	62.1	122.2	209.75	209.76	75.3	3.898	OK	209.7322	0.00	0.01	
F708477-BS1 HgI	104.503	142.3	195.8	209.75	209.75	162.1	0.474	OK	209.7322	0.00	0.01	

#53: F708477-BSD1

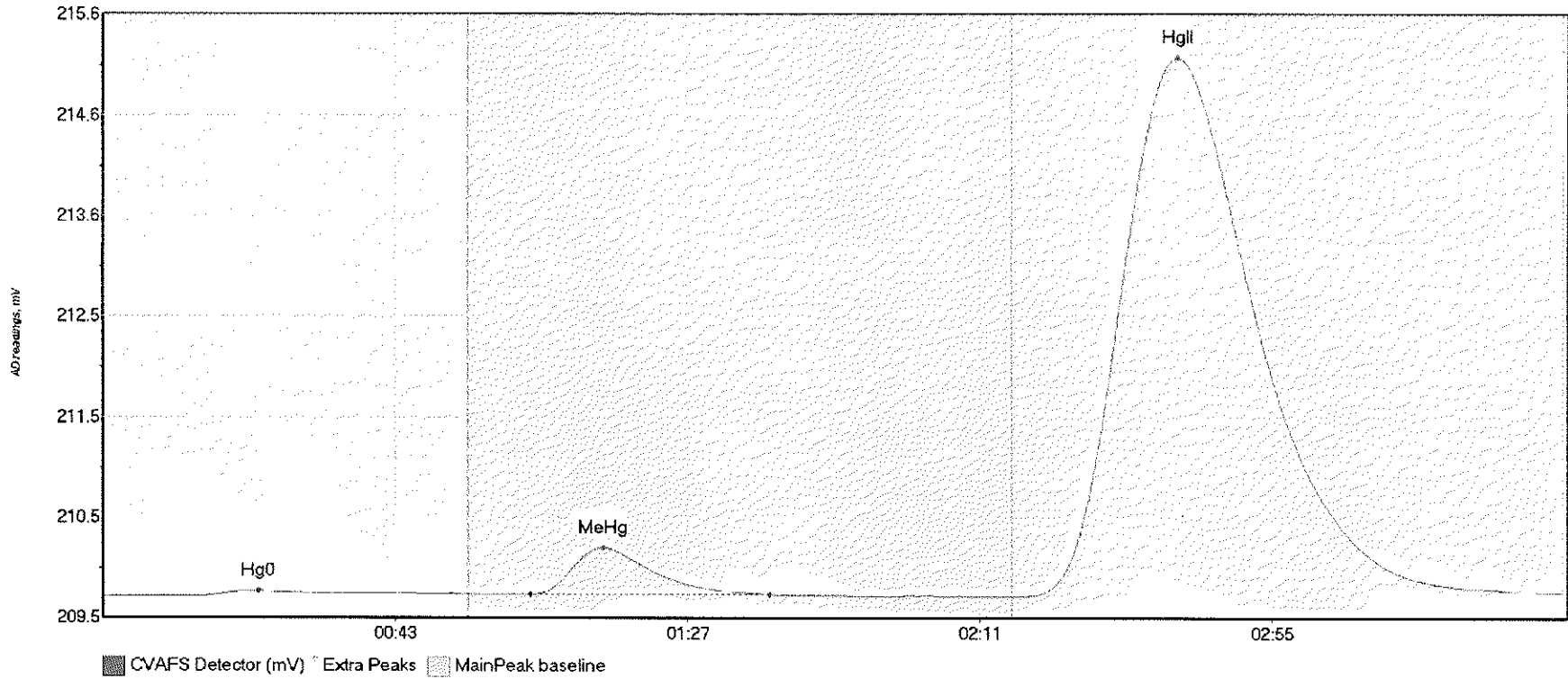


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-BSD1 Hg	5.601	14.5	53.6	209.74	209.76	31.9	0.032	OK	209.7364	0.00	0.00	
F708477-BSD1 Me	570.001	62.4	121.7	209.75	209.76	75.3	3.896	OK	209.7364	0.00	0.00	
F708477-BSD1 Hg	111.357	140.7	196.5	209.74	209.74	162.6	0.479	OK	209.7364	0.00	0.00	

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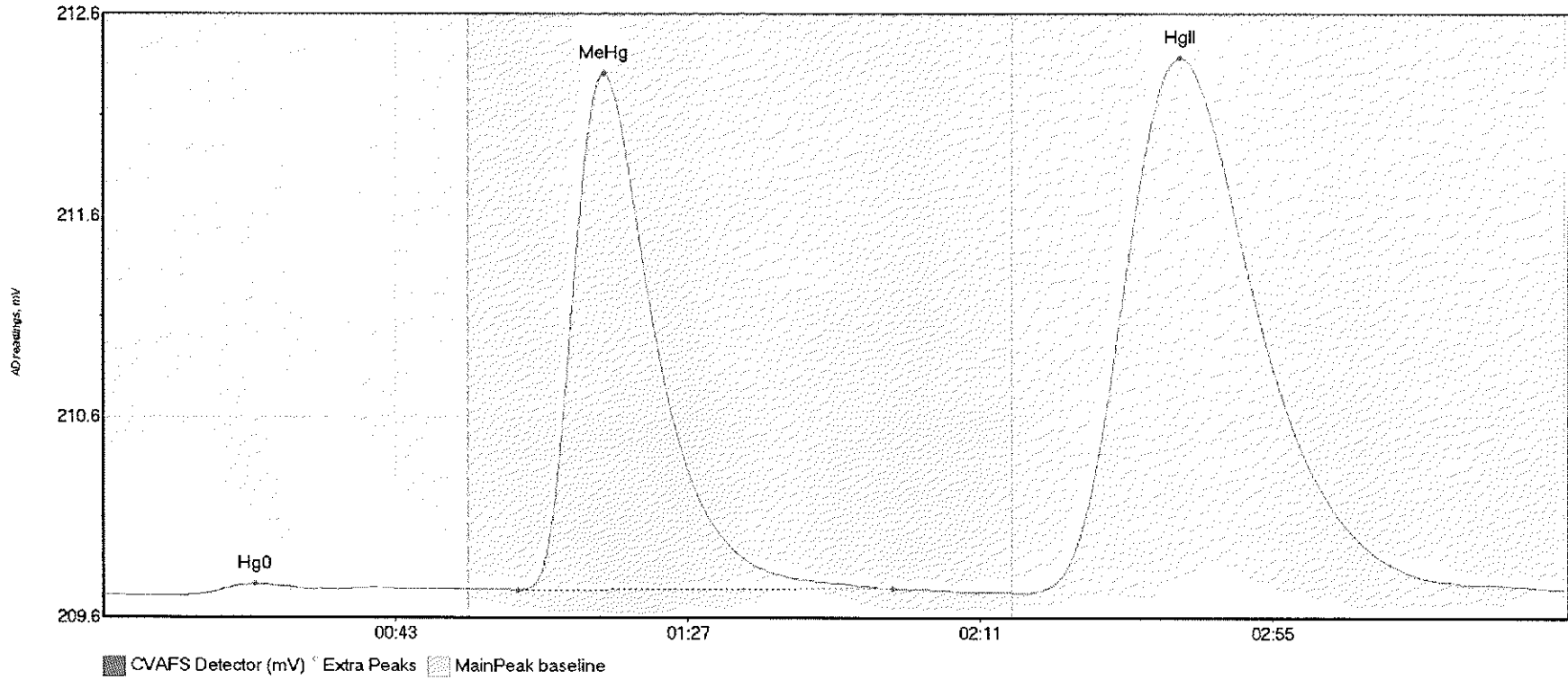
#54: F708477-DUP1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-DUP1 Hg	7.946	13.3	50.6	209.73	209.75	23.4	0.051	OK	209.7224	0.00	0.04	
F708477-DUP1 Me	64.755	64.3	100.3	209.74	209.74	75.3	0.469	OK	209.7224	0.00	0.04	
F708477-DUP1 Hg	1257.290	138.3	219.8	209.73	209.76	161.7	5.415	CT	209.7224	0.00	0.04	

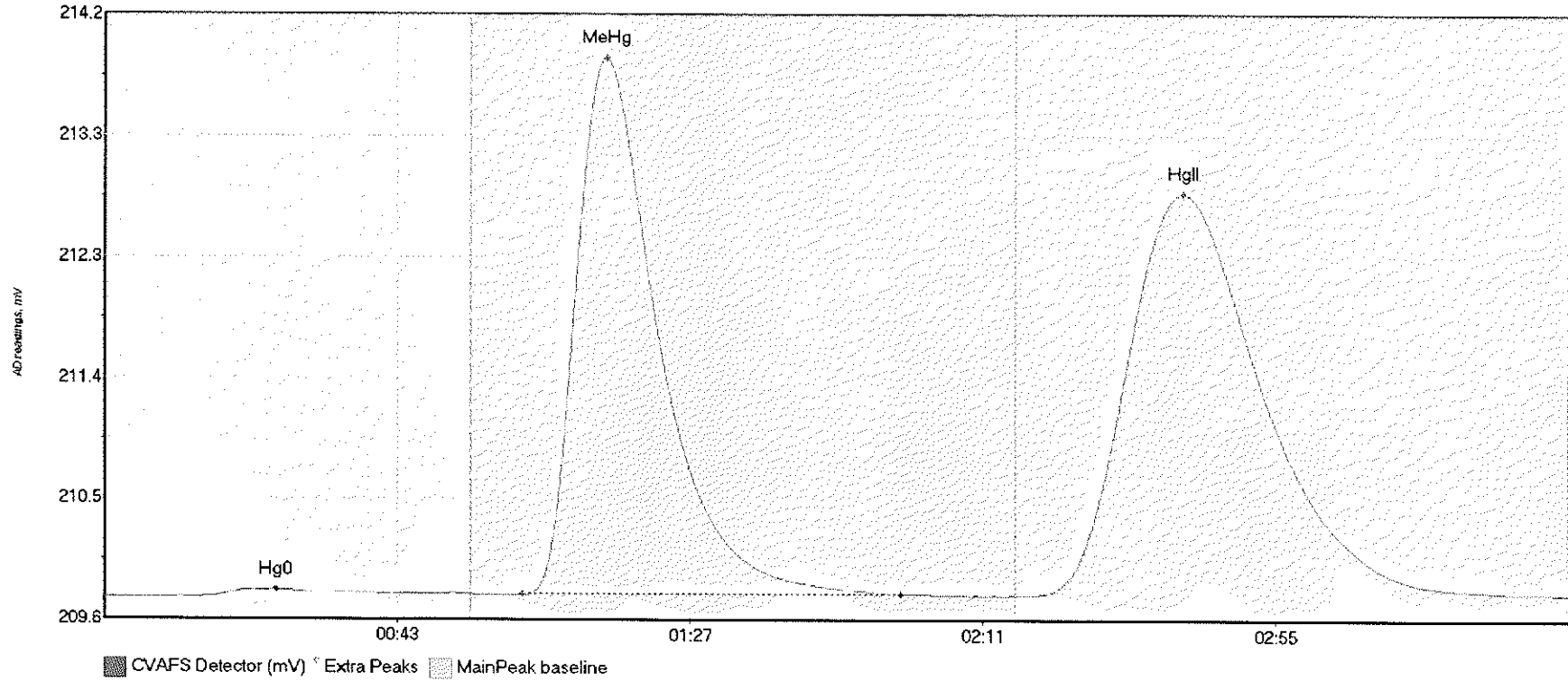
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#55: F708477-MS1



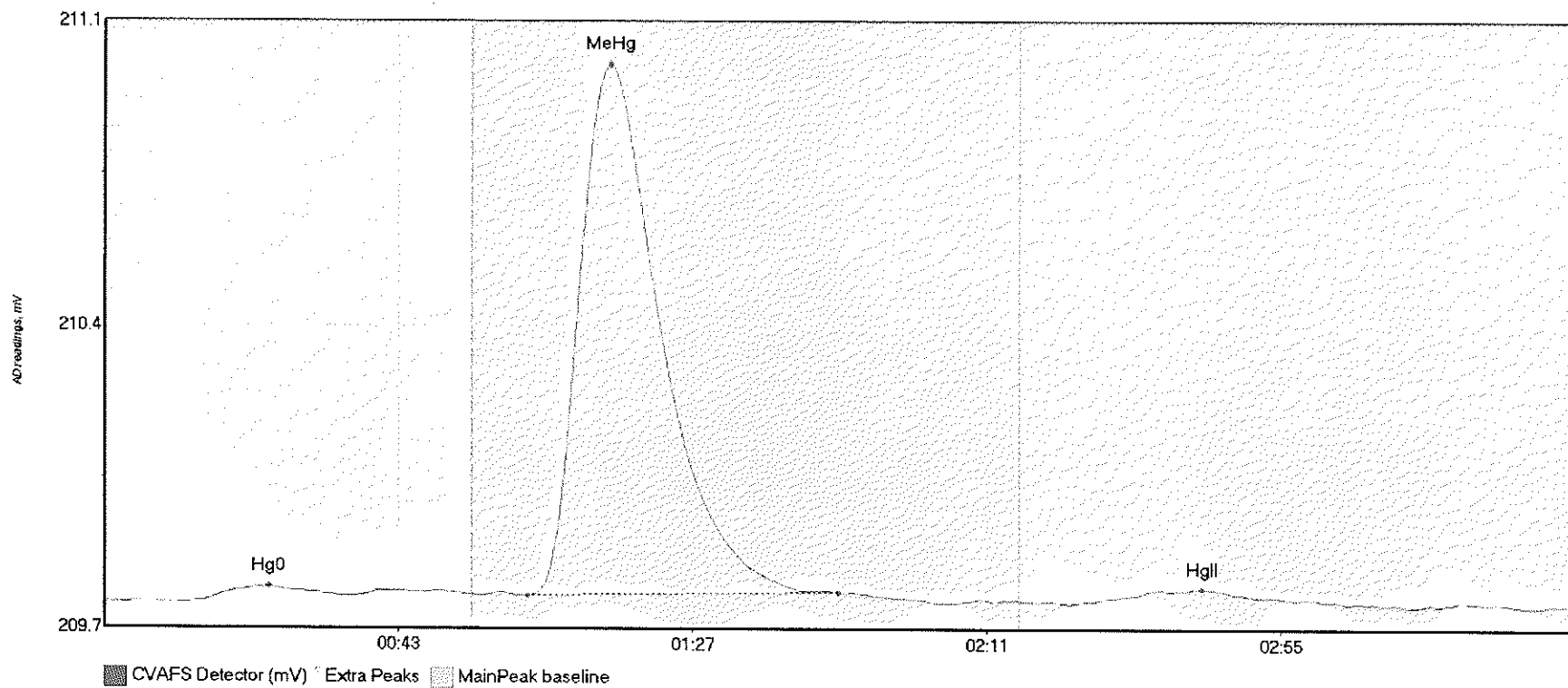
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-MS1 Hg0	4.638	13.3	35.3	209.72	209.75	22.9	0.056	OK	209.7232	0.00	0.03	
F708477-MS1 MeH	372.694	62.4	118.9	209.75	209.75	75.4	2.579	OK	209.7232	0.00	0.03	
F708477-MS1 HgI	624.998	139.3	219.8	209.73	209.75	162.1	2.671	CT	209.7232	0.00	0.03	

#56: F708477-MSD1



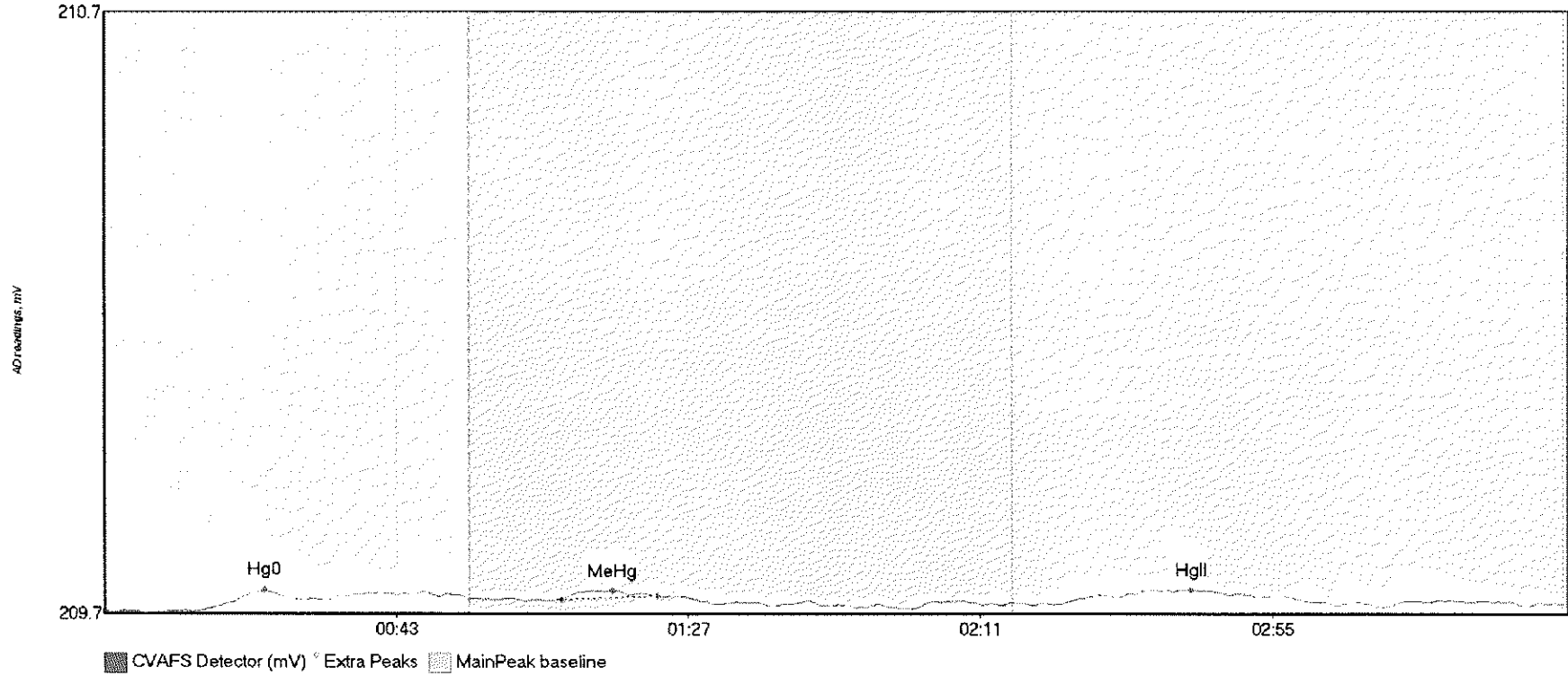
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-MSD1 Hg	8.711	14.0	55.0	209.73	209.76	25.8	0.055	CT	209.7266	0.00	0.03	
F708477-MSD1 Me	590.057	62.7	119.7	209.75	209.75	75.4	4.104	OK	209.7266	0.00	0.03	
F708477-MSD1 Hg	713.491	139.6	219.8	209.75	209.76	162.0	3.072	CT	209.7266	0.00	0.03	

#57: SEQ-CCV4



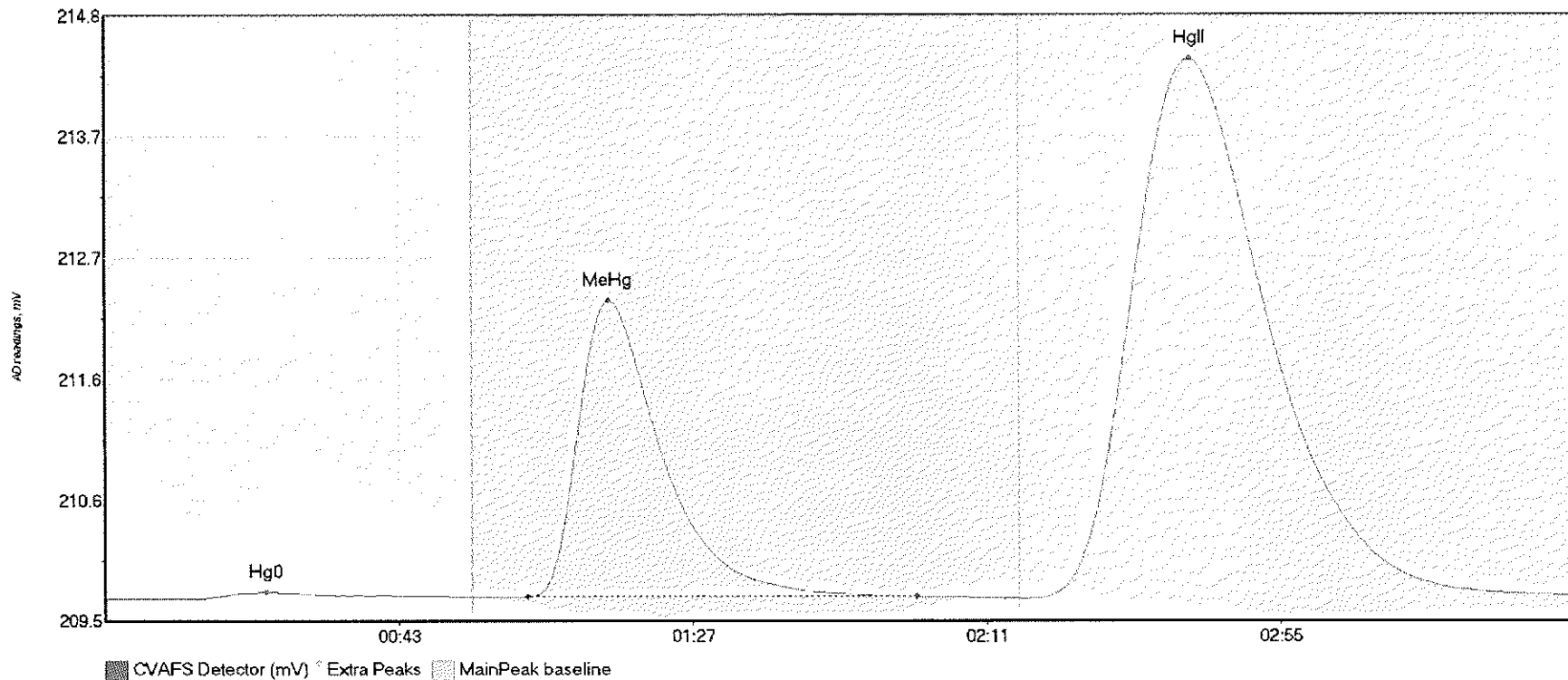
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	3.290	15.0	35.9	209.74	209.75	24.6	0.032	OK	209.7334	0.00	-0.01	
SEQ-CCV4 MeHg	180.494	63.3	109.7	209.75	209.76	75.7	1.282	OK	209.7334	0.00	-0.01	
SEQ-CCV4 HgII	3.944	148.9	176.9	209.74	209.74	164.2	0.629	OK	209.7334	0.00	-0.01	

#58: SEQ-CCB4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	1.647	14.3	29.9	209.73	209.75	24.2	0.032	OK	209.7278	0.00	0.01	
SEQ-CCB4 MeHg	1.199	68.9	83.3	209.75	209.75	76.6	0.016	OK	209.7278	0.00	0.01	
SEQ-CCB4 HgII	5.401	144.1	181.7	209.74	209.74	163.8	0.025	OK	209.7278	0.00	0.01	

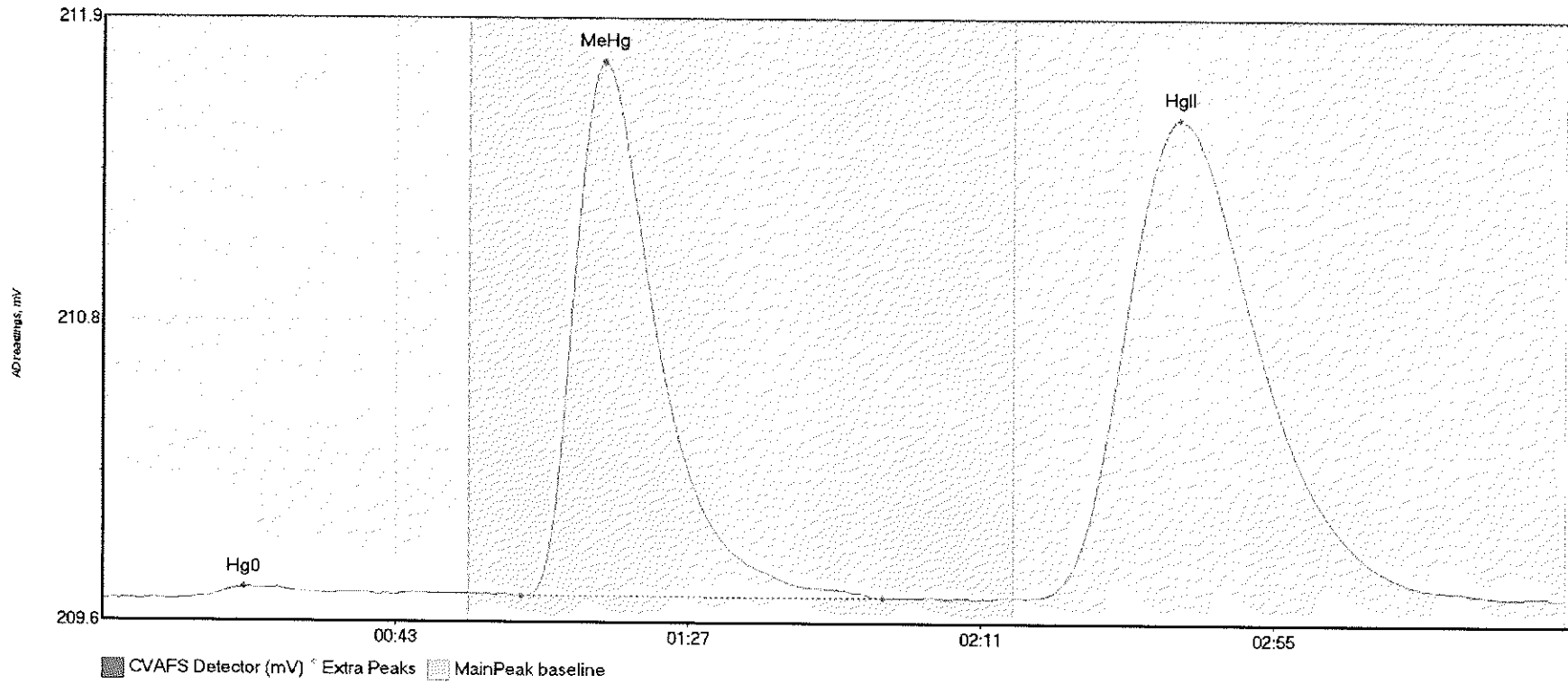
#59: F708477-MS2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-MS2 Hg0	9.798	14.6	55.0	209.73	209.74	24.2	0.058	CT	209.7250	0.00	0.04	
F708477-MS2 MeH	373.119	63.3	121.5	209.74	209.75	75.5	2.579	OK	209.7250	0.00	0.04	
F708477-MS2 HgI	1094.163	137.6	219.8	209.73	209.76	162.4	4.698	CT	209.7250	0.00	0.04	

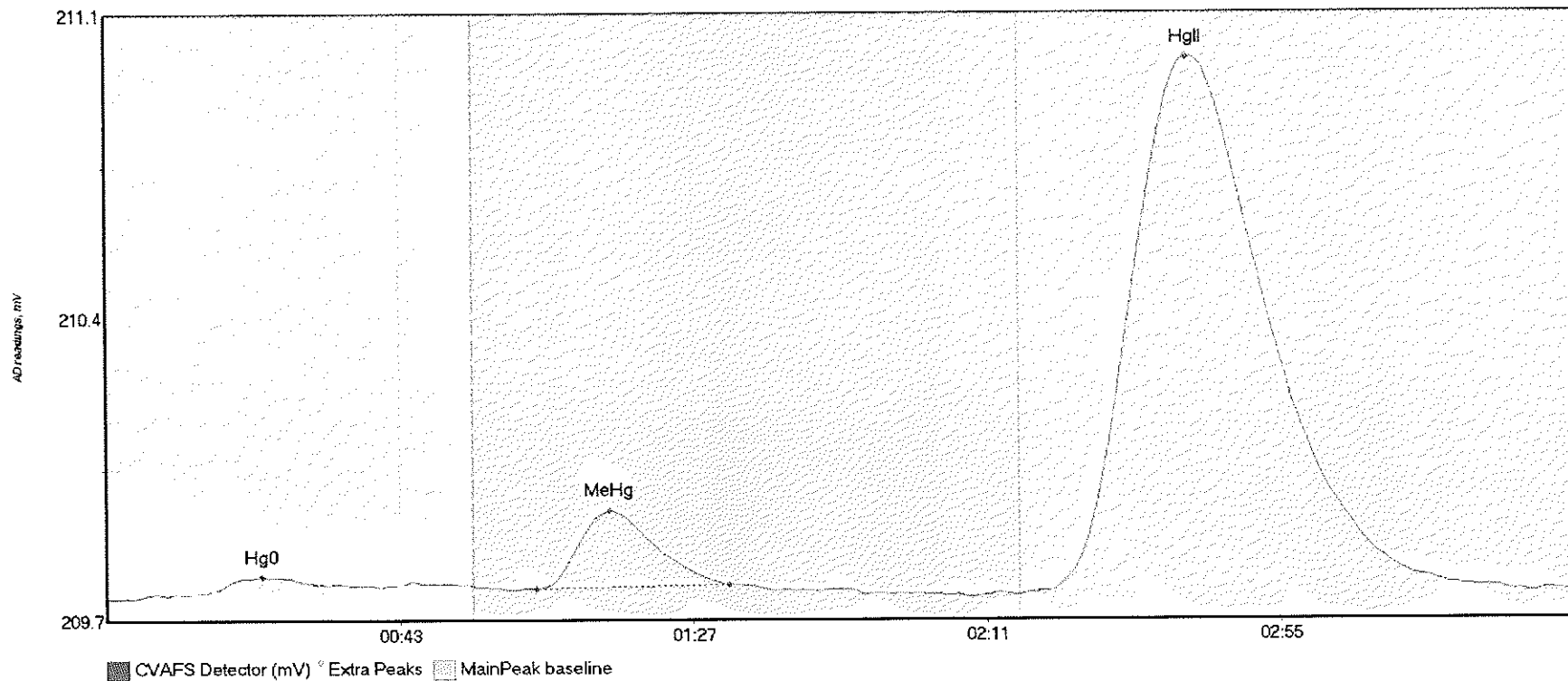
17

#60: F708477-MSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-MSD2 Hg	5.209	11.7	43.8	209.72	209.74	21.3	0.044	OK	209.7150	0.00	0.02	
F708477-MSD2 Me	288.464	62.9	117.3	209.73	209.73	75.3	1.982	OK	209.7150	0.00	0.02	
F708477-MSD2 Hg	411.447	140.2	210.8	209.73	209.74	161.7	1.778	OK	209.7150	0.00	0.02	

#61: 1708151-24

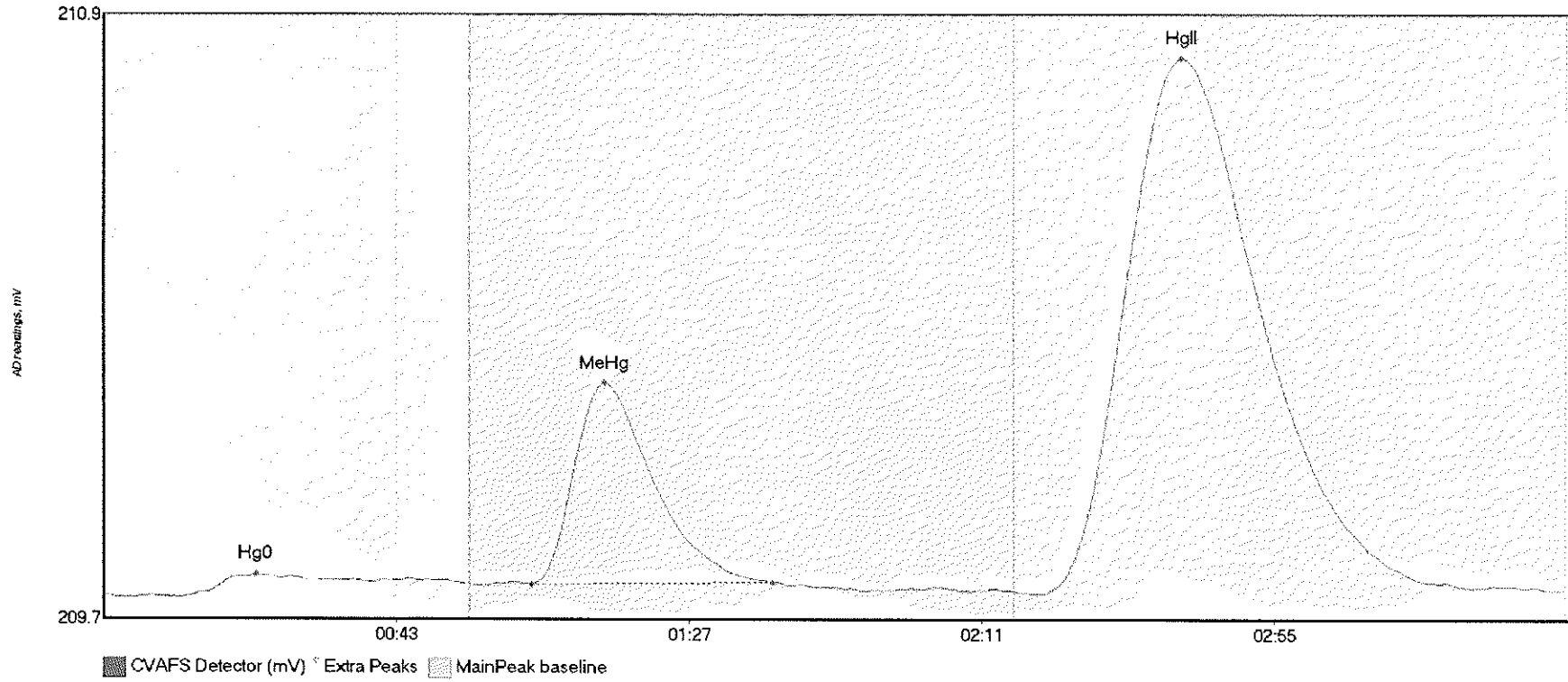


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-24 Hg0	5.771	4.2	41.2	209.71	209.74	23.3	0.050	OK	209.7136	0.00	0.01	
1708151-24 MeHg	23.789	64.5	93.3	209.73	209.74	75.4	0.185	OK	209.7136	0.00	0.01	
1708151-24 HgII	296.695	139.1	213.5	209.73	209.73	162.1	1.262	OK	209.7136	0.00	0.01	

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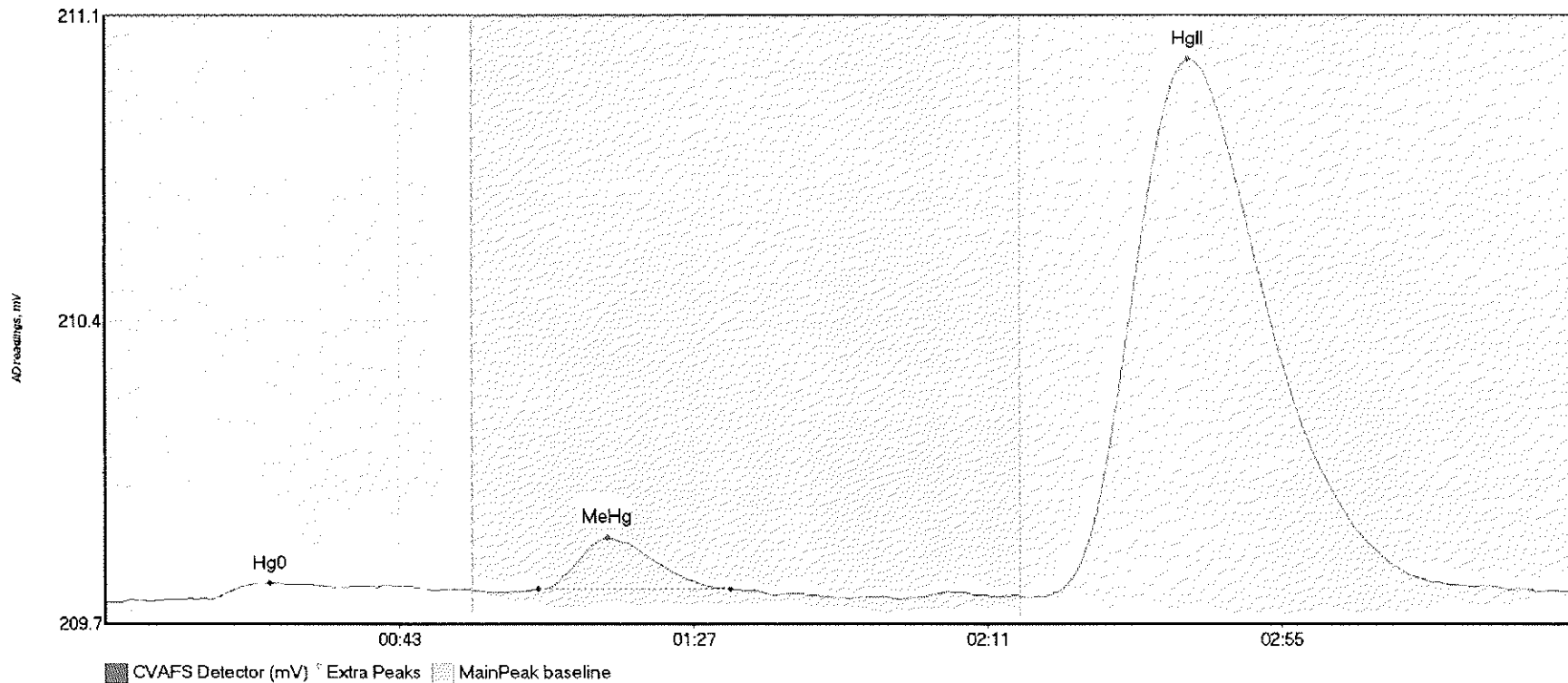


#62: 1708151-25



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-25 Hg0	8.209	11.6	55.0	209.72	209.74	22.9	0.044	CT	209.7195	0.00	0.01	
1708151-25 MeHg	53.859	64.3	100.6	209.74	209.75	75.3	0.396	OK	209.7195	0.00	0.01	
1708151-25 HgII	246.806	141.3	217.4	209.72	209.73	162.1	1.053	OK	209.7195	0.00	0.01	

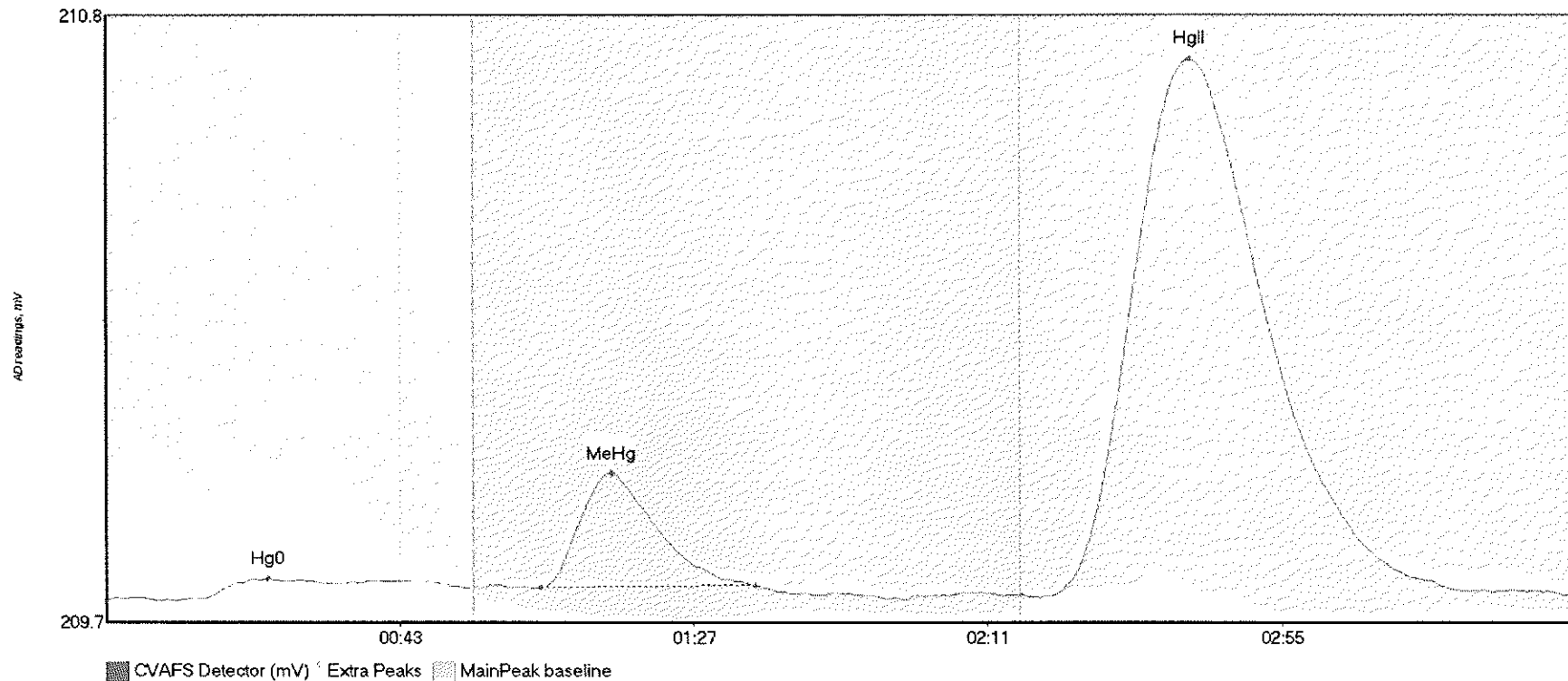
#63: 1708151-26



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-26 Hg0	6.594	6.8	49.0	209.71	209.74	24.7	0.045	OK	209.7109	0.00	0.03	
1708151-26 MeHg	15.899	64.9	93.4	209.74	209.74	75.1	0.125	OK	209.7109	0.00	0.03	
1708151-26 HgII	309.416	140.0	219.8	209.72	209.74	162.1	1.316	CT	209.7109	0.00	0.03	

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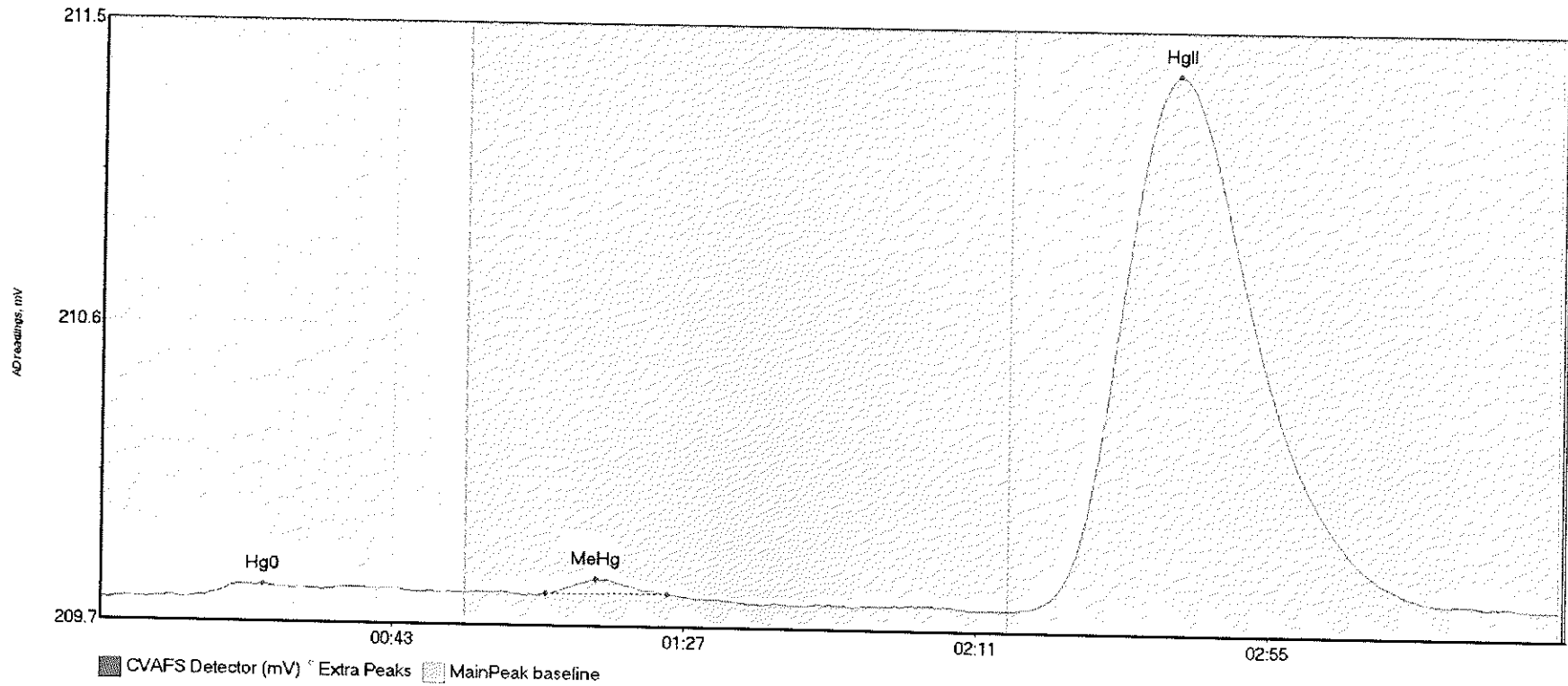
#64: 1708151-27



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-27 Hg0	7.423	14.4	54.1	209.71	209.73	24.3	0.037	OK	209.7124	0.00	0.01	
1708151-27 MeHg	27.640	65.0	97.1	209.73	209.74	75.7	0.214	OK	209.7124	0.00	0.01	
1708151-27 HgII	231.115	141.3	218.1	209.72	209.72	162.2	0.998	OK	209.7124	0.00	0.01	

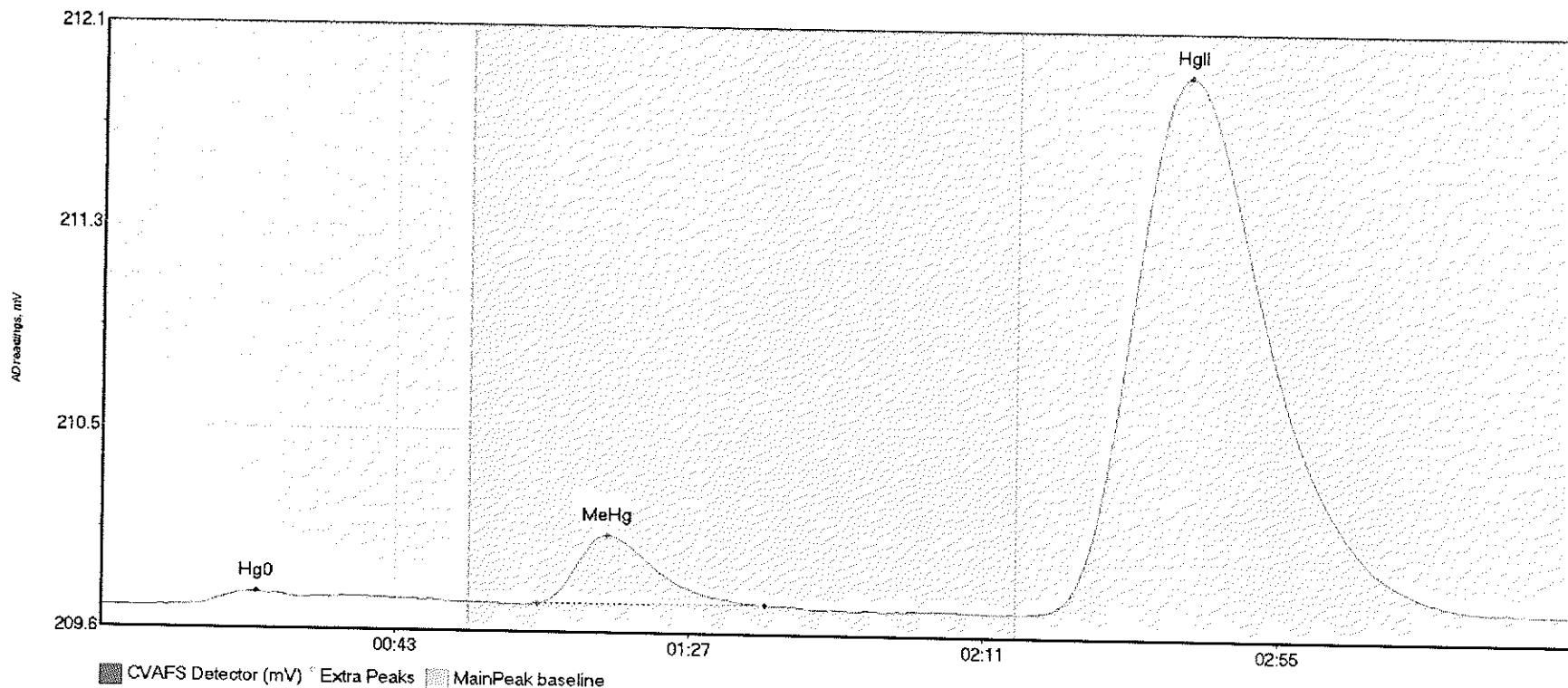
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#65: 1708151-28



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-28 Hg0	7.257	13.2	55.0	209.73	209.75	24.4	0.041	CT	209.7226	0.00	0.02	
1708151-28 MeHg	4.195	67.1	85.5	209.75	209.75	74.8	0.046	OK	209.7226	0.00	0.02	
1708151-28 HgII	377.408	137.7	218.5	209.72	209.74	162.2	1.620	OK	209.7226	0.00	0.02	

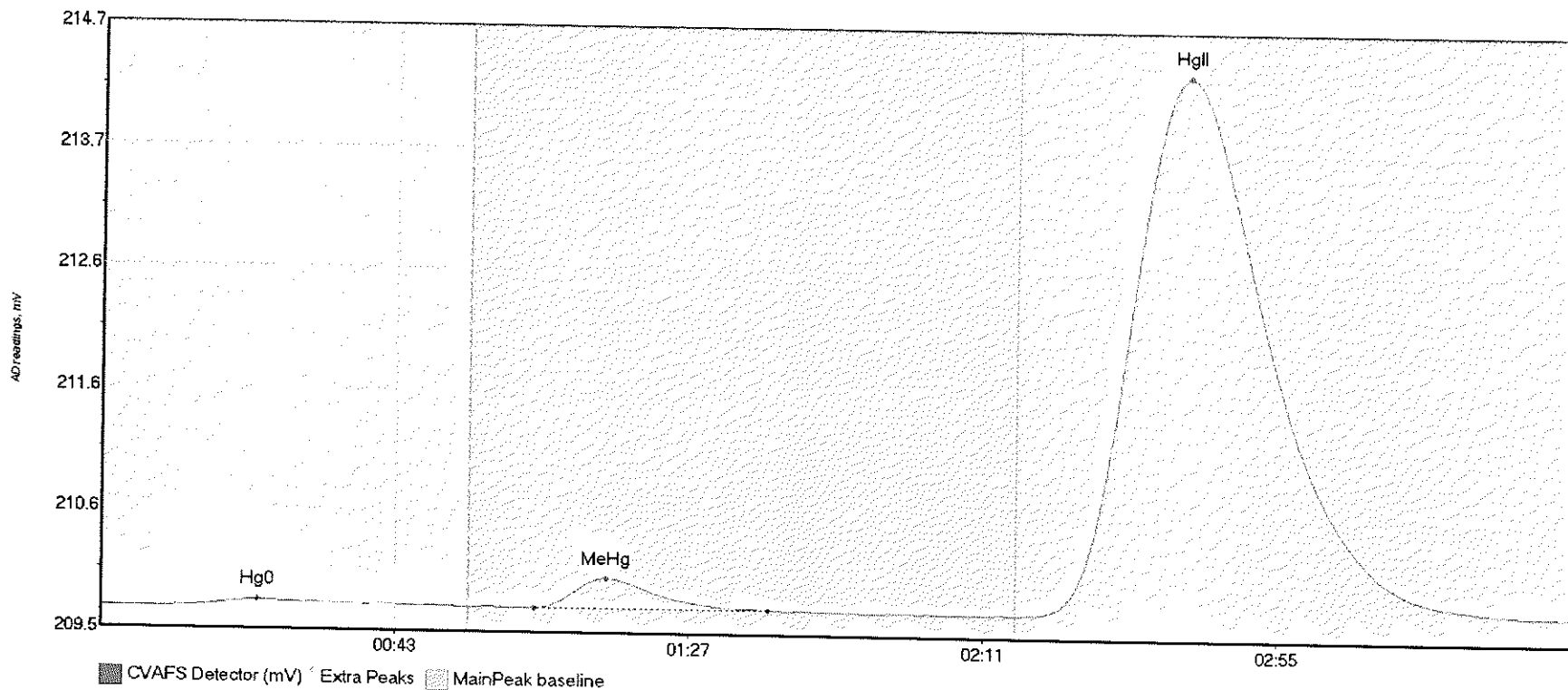
#66: 1708151-29



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-29 Hg0	9.855	11.5	53.1	209.72	209.74	23.3	0.056	OK	209.7156	0.00	0.03	
1708151-29 MeHg	37.949	65.3	99.3	209.74	209.75	75.7	0.283	OK	209.7156	0.00	0.03	
1708151-29 HgII	515.841	138.3	219.7	209.72	209.74	162.6	2.212	OK	209.7156	0.00	0.03	

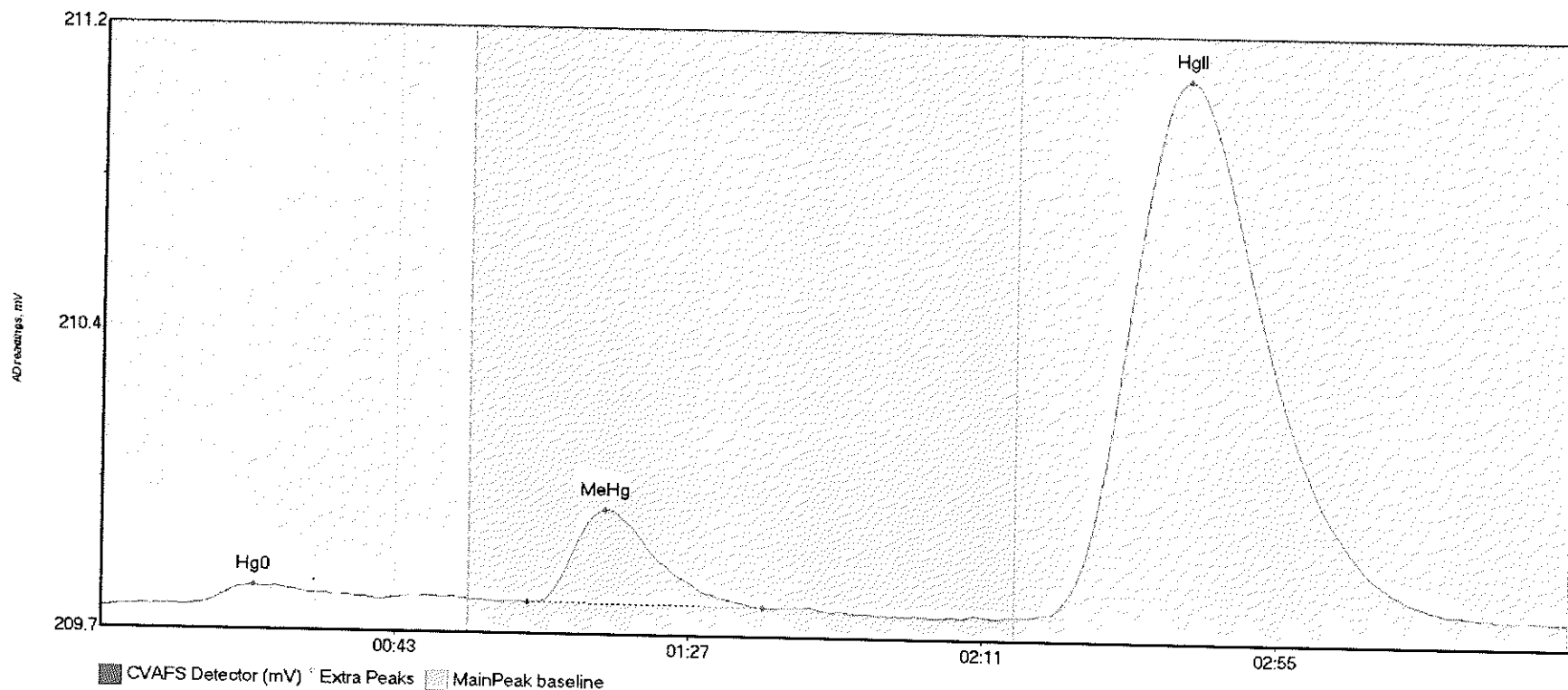
017

#67: 1708151-30



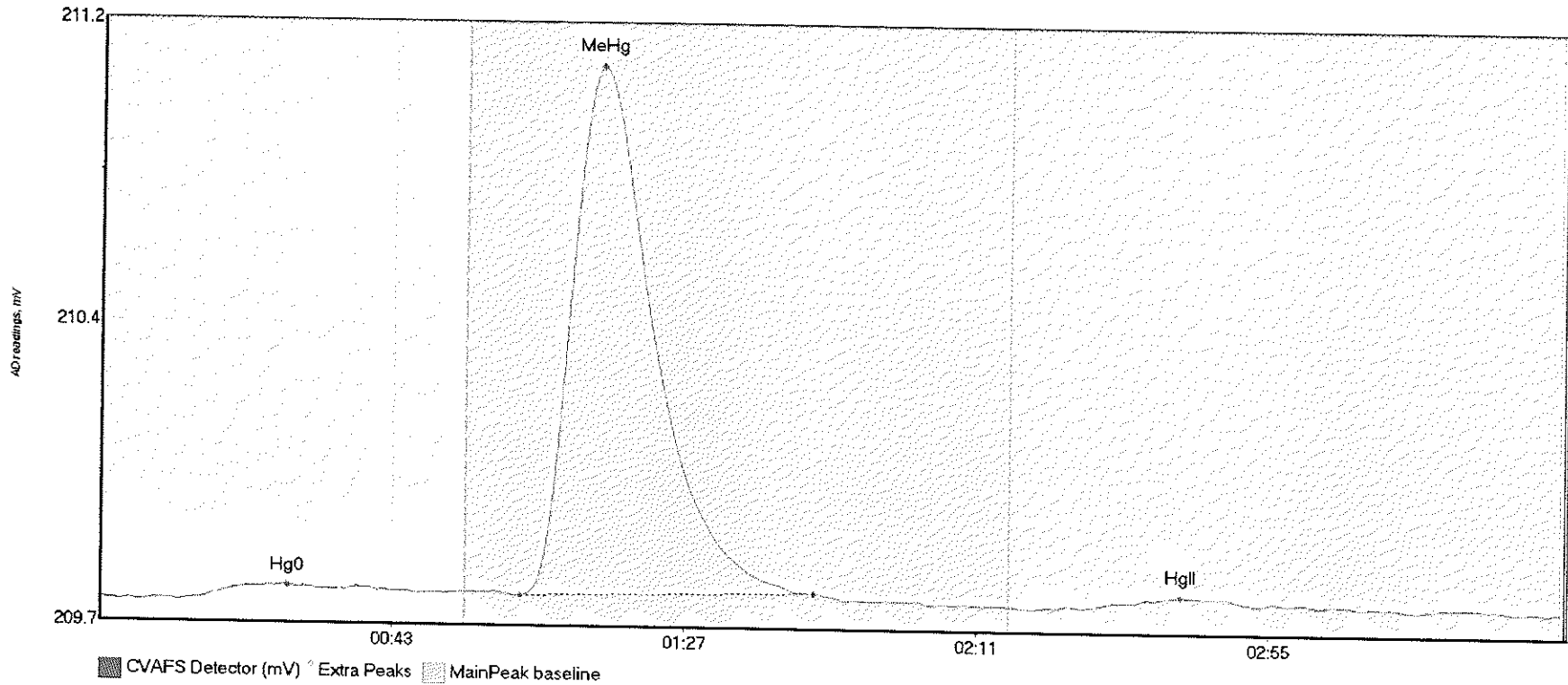
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-30 Hg0	10.568	9.2	55.0	209.71	209.74	23.5	0.058	CT	209.7111	0.00	0.04	
1708151-30 MeHg	35.411	64.8	99.9	209.74	209.74	75.6	0.256	OK	209.7111	0.00	0.04	
1708151-30 HgII	1082.597	136.8	219.7	209.72	209.75	162.4	4.628	OK	209.7111	0.00	0.04	

#68: 1708151-31



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-31 Hg0	5.690	3.0	41.4	209.72	209.75	22.8	0.053	OK	209.7183	0.00	0.01	
1708151-31 MeHg	33.706	63.9	99.2	209.74	209.74	75.5	0.239	OK	209.7183	0.00	0.01	
1708151-31 HgII	324.486	138.6	217.8	209.72	209.73	162.5	1.379	OK	209.7183	0.00	0.01	

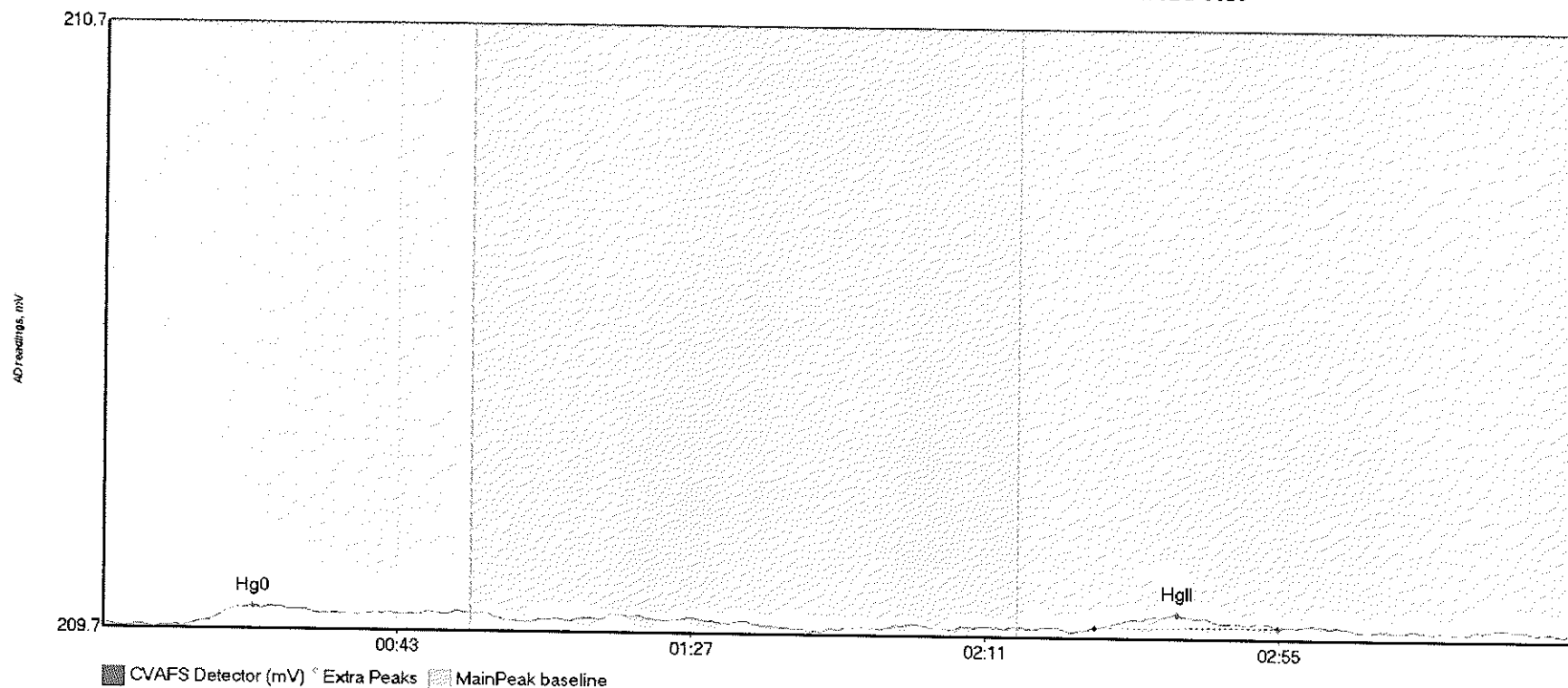
#69: SEQ-CCV5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	5.205	14.9	47.5	209.72	209.73	28.1	0.033	OK	209.7148	0.00	0.00	
SEQ-CCV5 MeHg	191.381	63.3	107.4	209.73	209.74	75.2	1.351	OK	209.7148	0.00	0.00	
SEQ-CCV5 HgII	5.616	149.1	189.9	209.72	209.72	162.7	0.028	OK	209.7148	0.00	0.00	

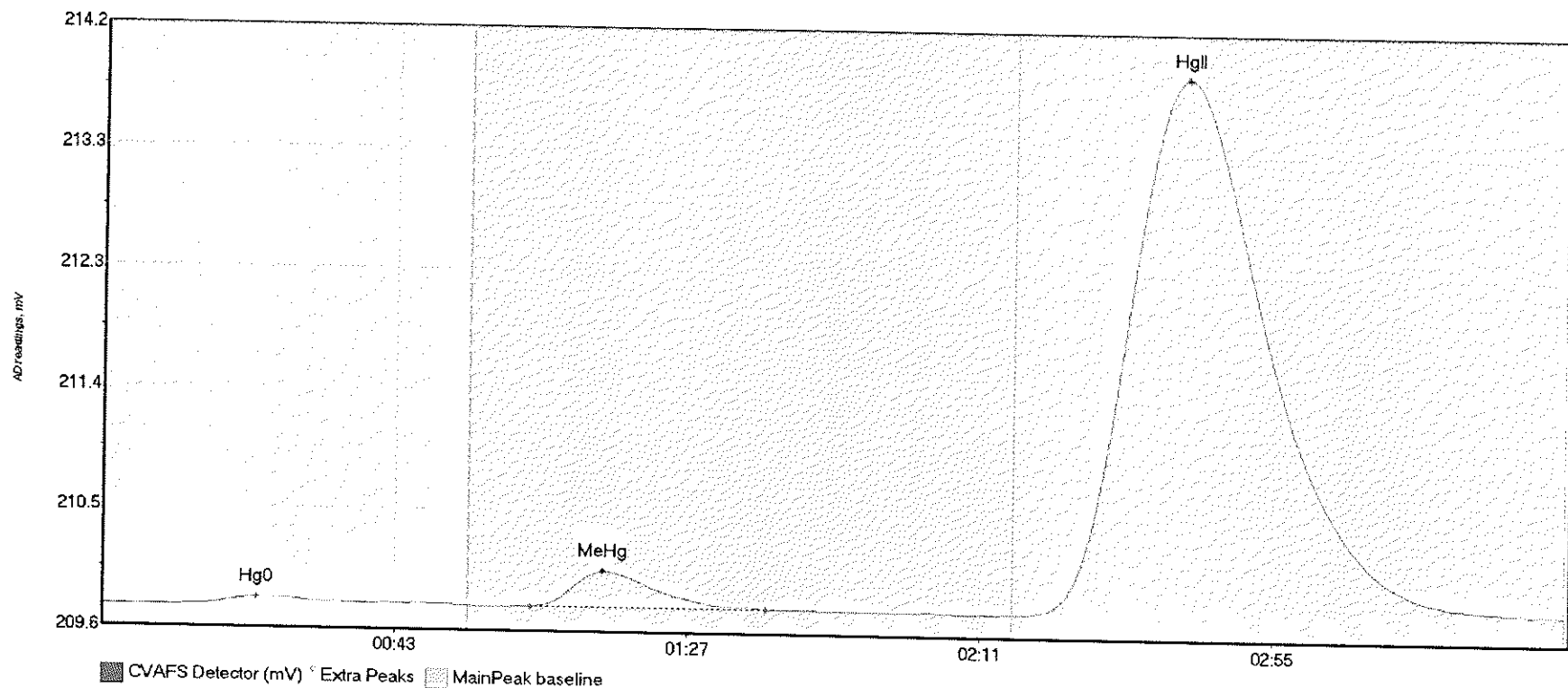


#70: SEQ-CCB5



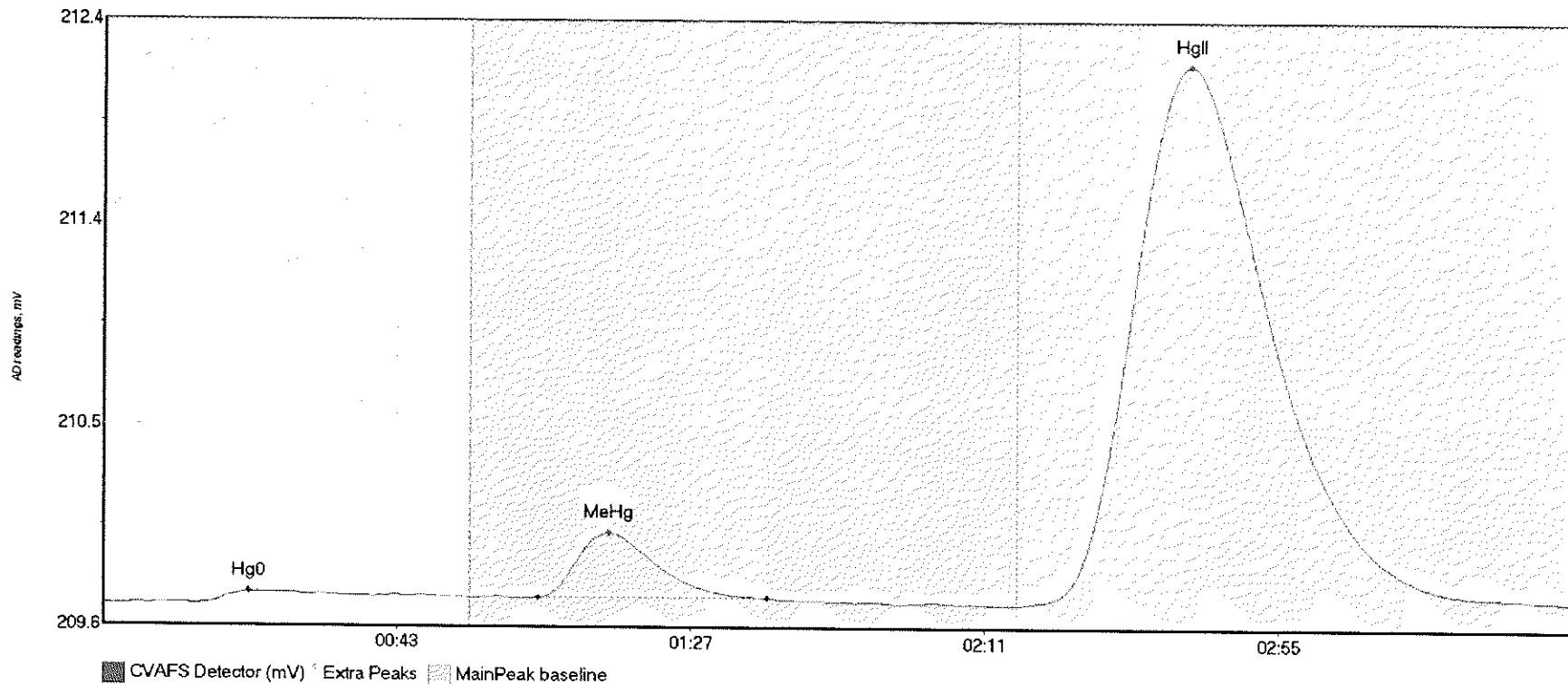
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB5 Hg0	2.740	14.4	38.0	209.73	209.74	22.4	0.027	OK	209.7218	0.00	0.00	
SEQ-CCB5 HgII	3.033	148.4	175.9	209.73	209.73	160.7	0.022	OK	209.7218	0.00	0.00	017

#71: 1708151-32



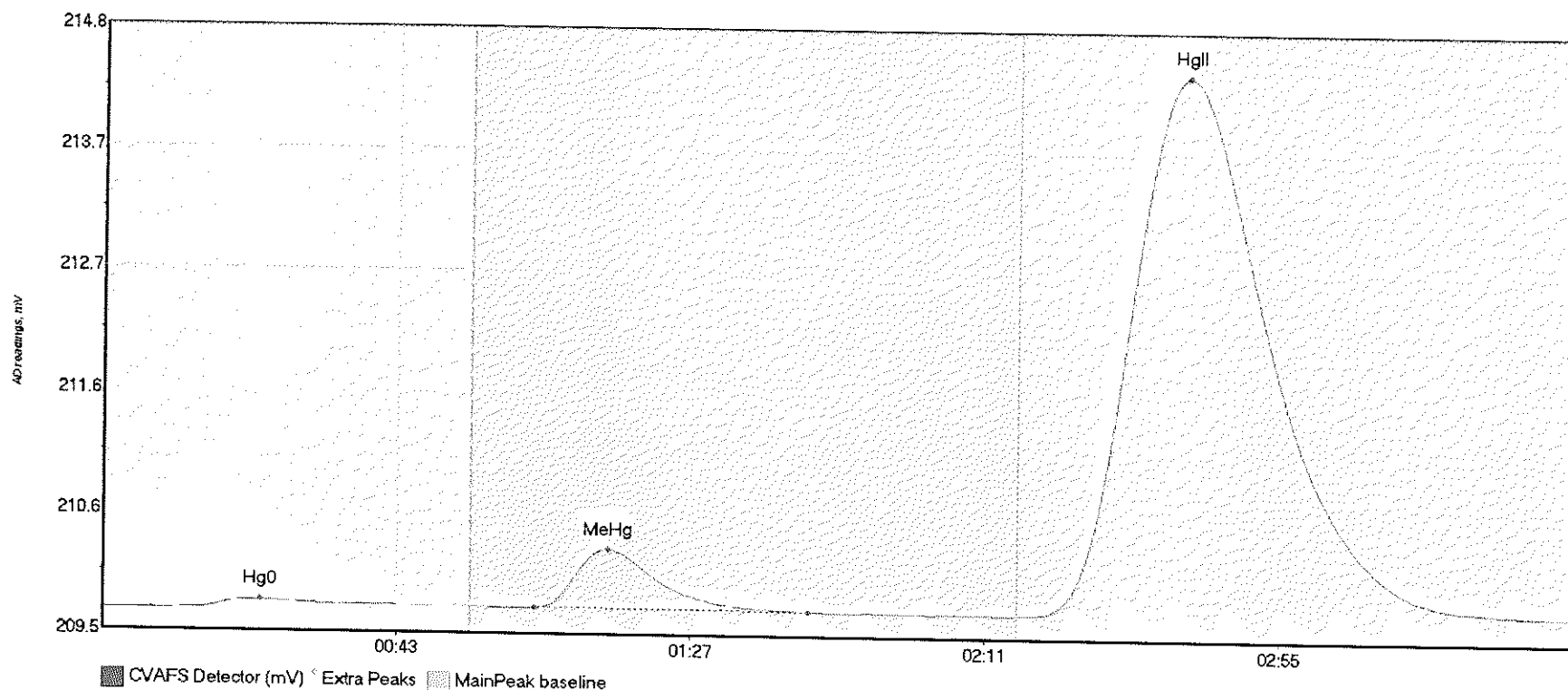
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-32 Hg0	10.581	10.7	55.0	209.72	209.74	23.1	0.060	CT	209.7184	0.00	0.06	
1708151-32 MeHg	38.241	64.4	99.8	209.74	209.74	75.3	0.274	OK	209.7184	0.00	0.06	
1708151-32 HgII	974.595	138.5	219.7	209.73	209.77	162.7	4.113	OK	209.7184	0.00	0.06	

#72: 1708154-01



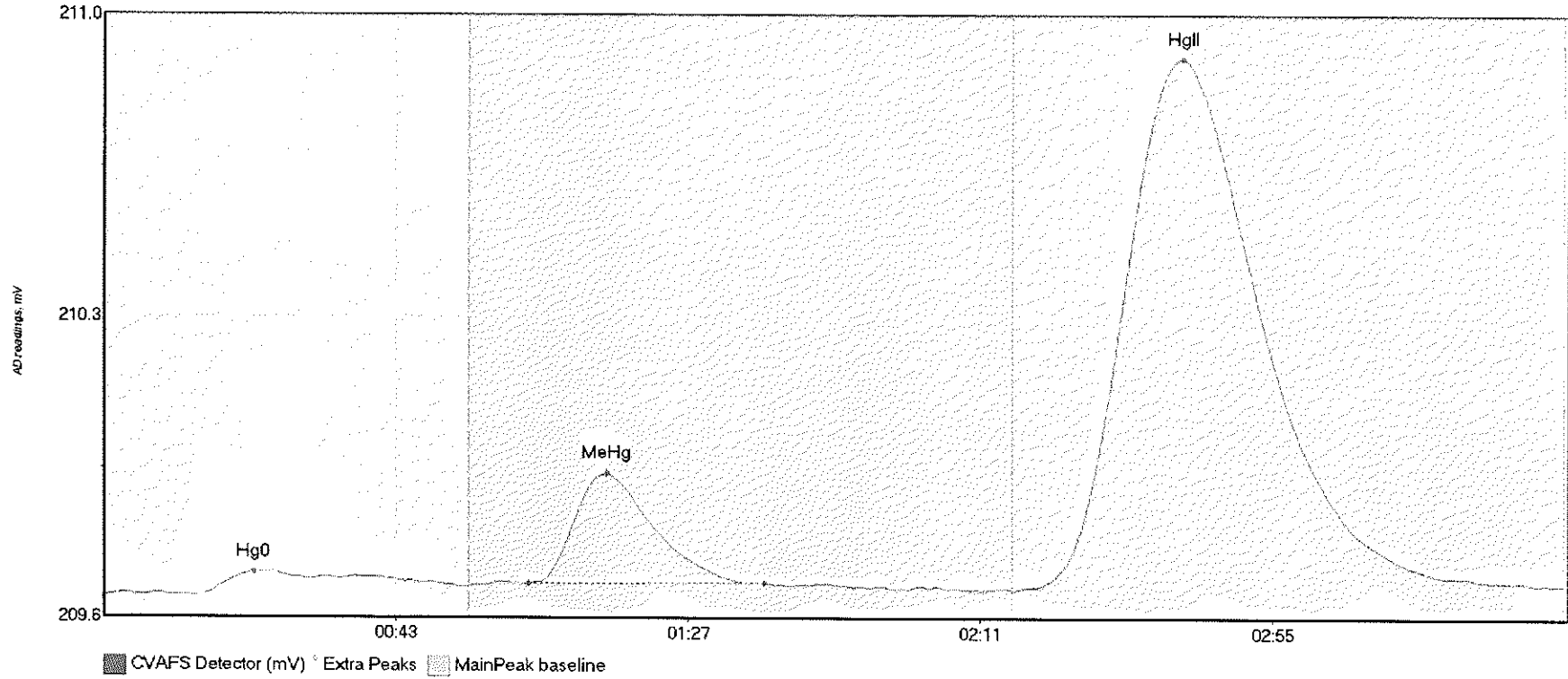
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708154-01 Hg0	10.100	14.2	55.0	209.71	209.74	21.8	0.055	CT	209.7078	0.00	0.02	
1708154-01 MeHg	40.133	65.2	99.5	209.74	209.74	75.7	0.297	OK	209.7078	0.00	0.02	
1708154-01 HgII	581.336	136.8	219.8	209.71	209.73	162.8	2.461	CT	209.7078	0.00	0.02	

#73: 1708154-02



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708154-02 Hg0	8.932	3.2	45.3	209.70	209.74	23.6	0.080	OK	209.6958	0.00	0.05	
1708154-02 MeHg	71.552	64.6	105.6	209.73	209.72	75.6	0.514	OK	209.6958	0.00	0.05	
1708154-02 HgII	1100.450	138.9	219.8	209.71	209.74	162.2	4.690	CT	209.6958	0.00	0.05	

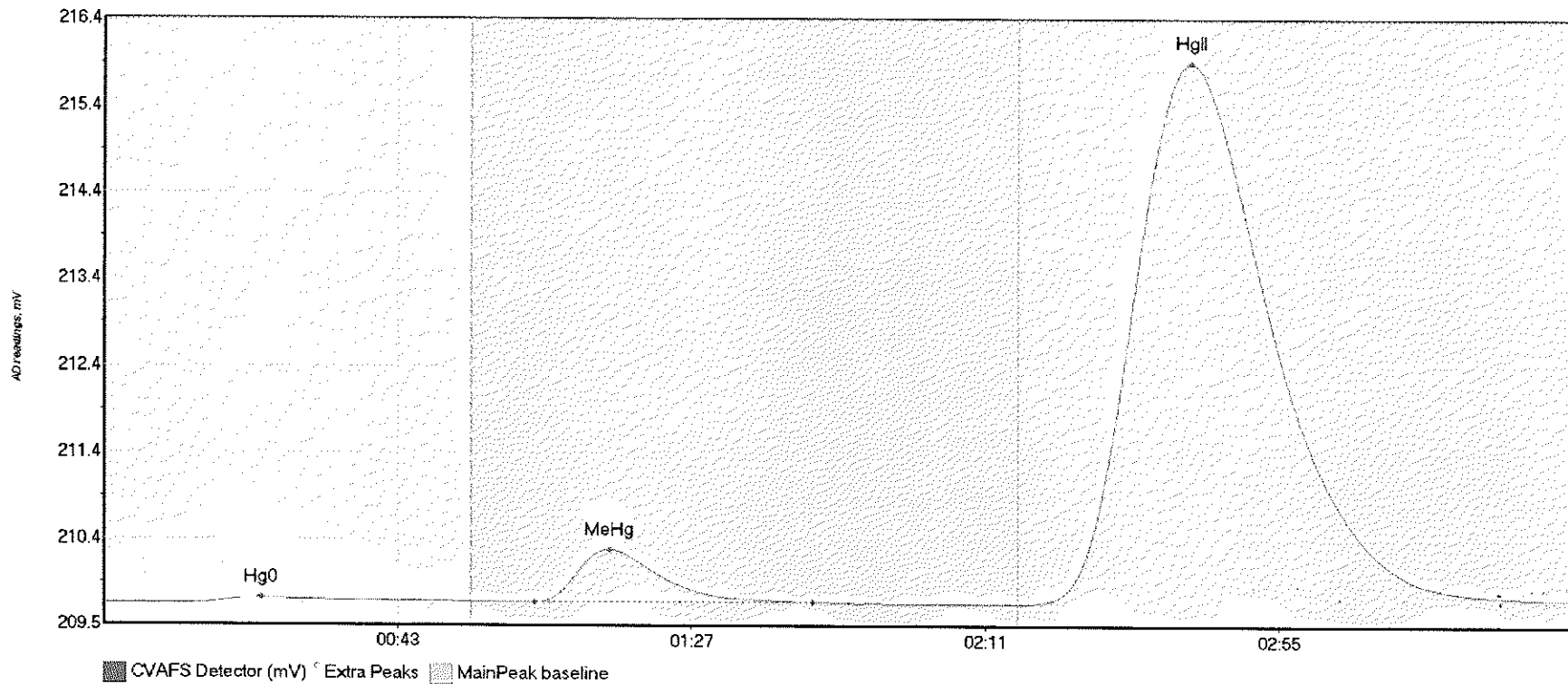
#74: 1708154-03



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708154-03 Hg0	11.005	13.7	54.3	209.70	209.72	22.6	0.056	OK	209.6983	0.00	0.03	
1708154-03 MeHg	34.531	64.0	99.5	209.73	209.73	75.7	0.254	OK	209.6983	0.00	0.03	
1708154-03 HgII	288.068	137.3	218.2	209.71	209.72	162.5	1.224	OK	209.6983	0.00	0.03	

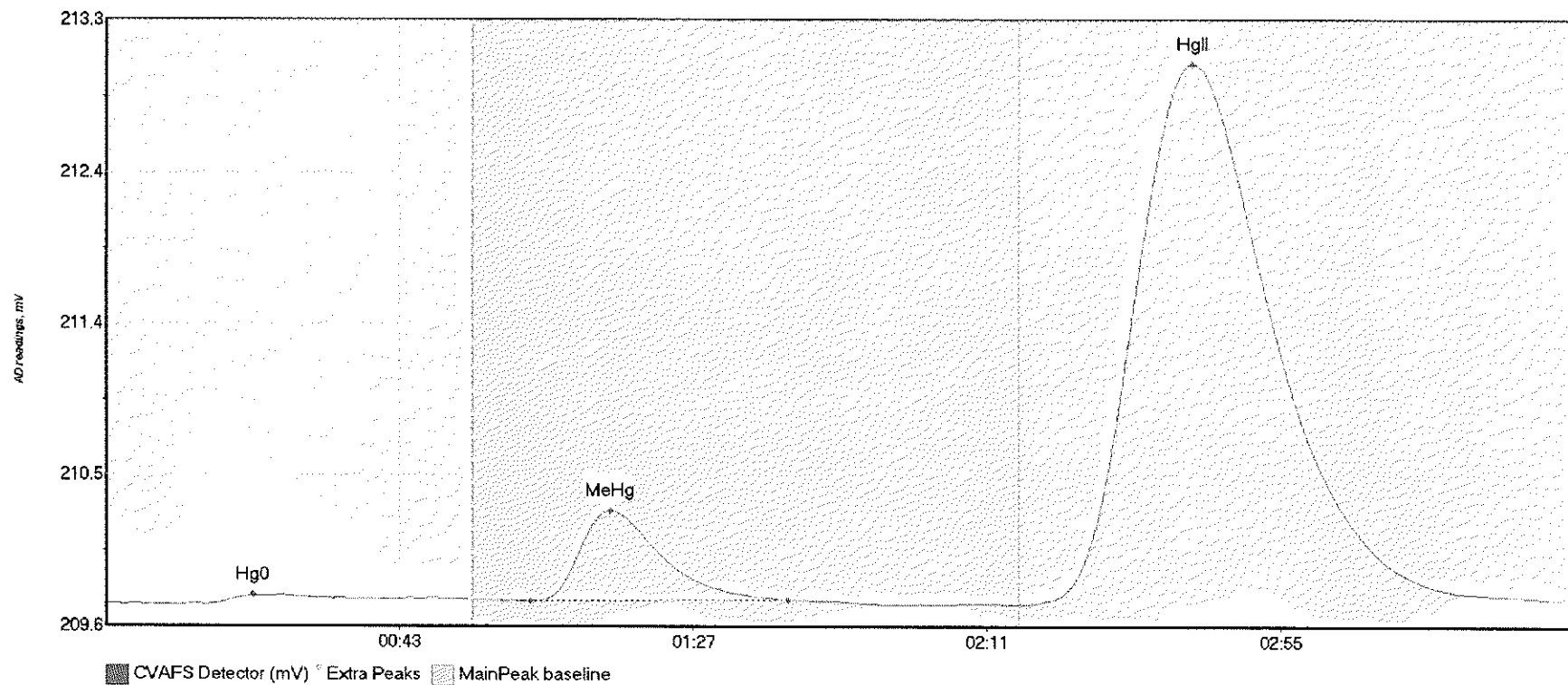
017

#75: 1708154-04



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
1708154-04 Hg0	9.378	13.4	54.0	209.71	209.74	23.6	0.062	OK	209.7082	0.00	0.05	
1708154-04 MeHg	84.640	64.5	106.1	209.73	209.73	75.8	0.600	OK	209.7082	0.00	0.05	
1708154-04 HgII	1455.788	137.3	219.8	209.71	209.76	162.7	6.176	CT	209.7082	0.00	0.05	

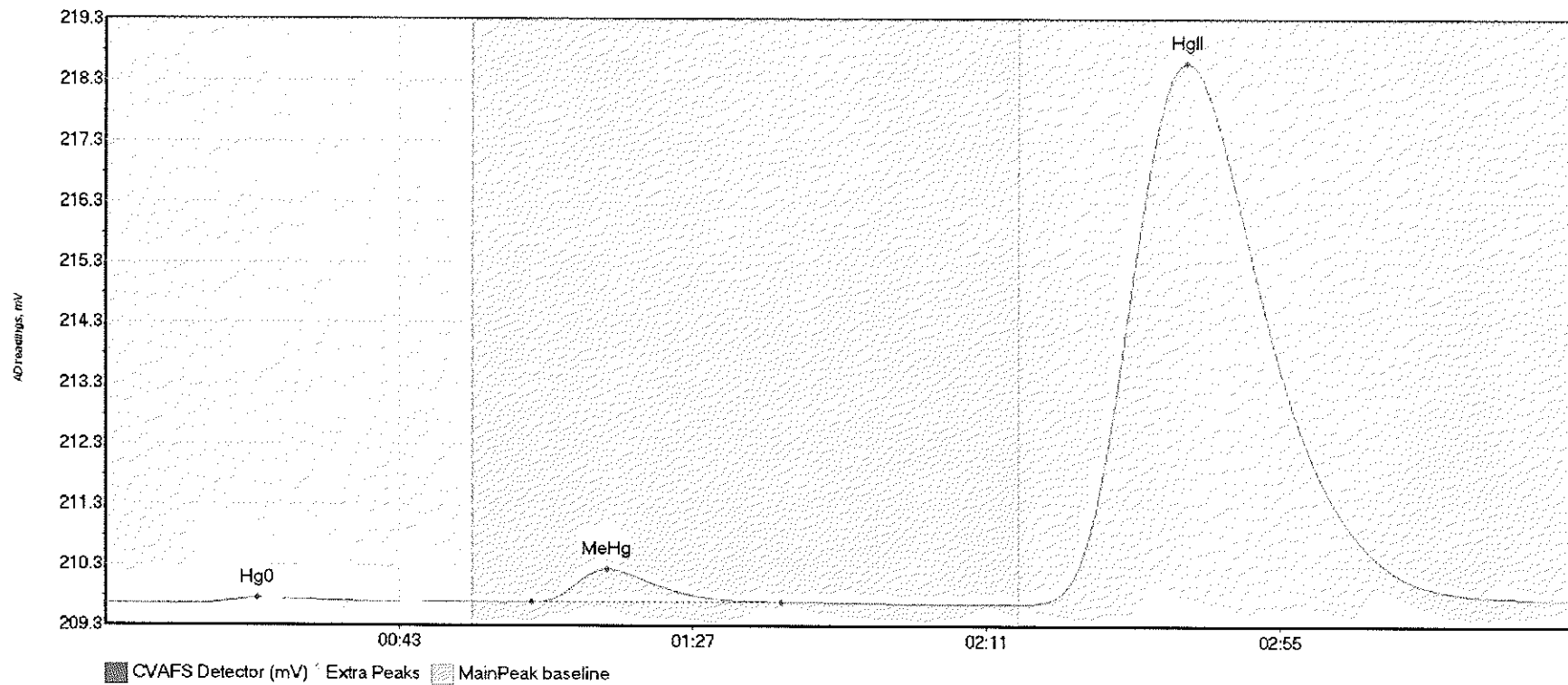
#76: 1708154-05



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708154-05 Hg0	9.439	15.0	55.0	209.71	209.74	22.0	0.056	CT	209.7130	0.00	0.03	
1708154-05 MeHg	76.844	63.6	102.2	209.73	209.74	75.6	0.556	OK	209.7130	0.00	0.03	
1708154-05 HgII	790.524	138.0	219.8	209.71	209.74	162.8	3.342	CT	209.7130	0.00	0.03	

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#77: 1708154-06

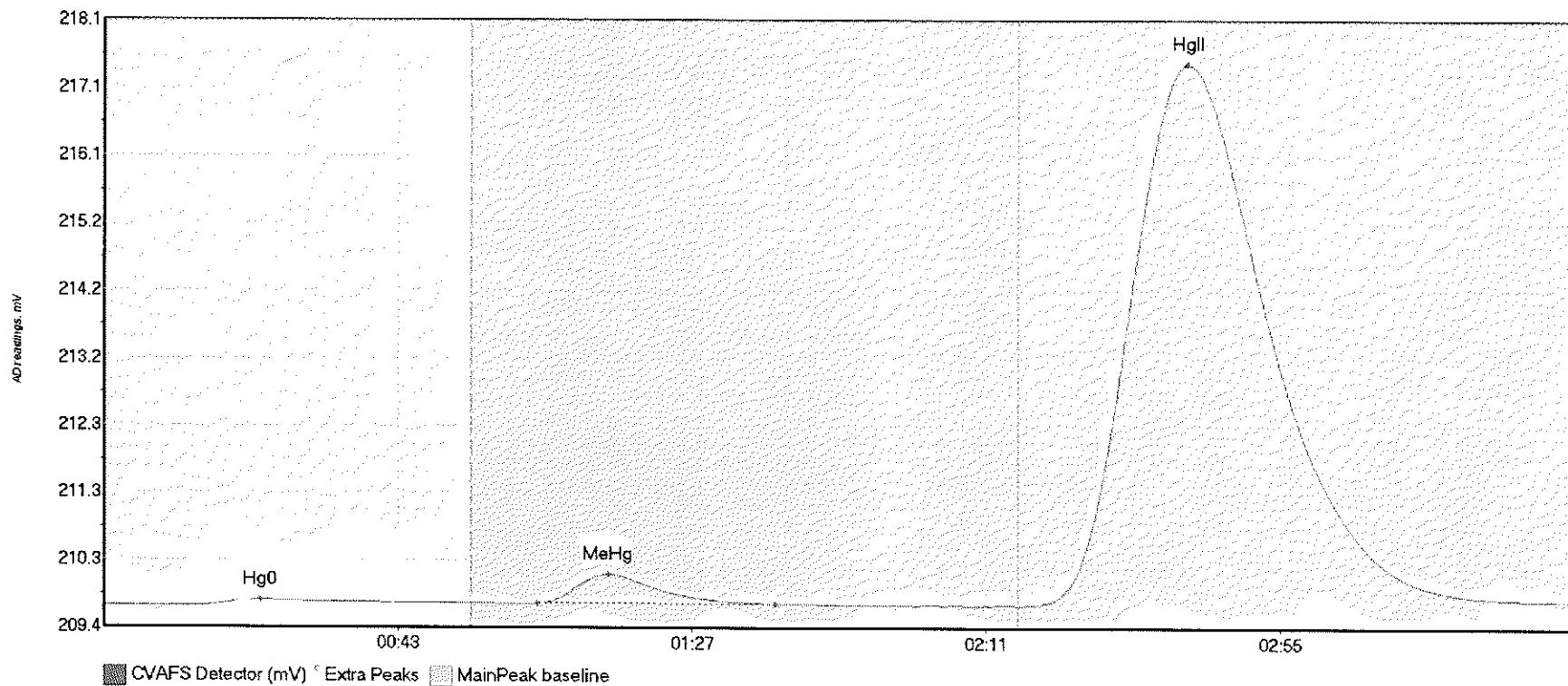


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708154-06 Hg0	13.662	14.0	54.2	209.70	209.73	22.7	0.086	OK	209.7010	0.00	0.07	
1708154-06 MeHg	73.280	63.9	101.3	209.73	209.73	75.1	0.540	OK	209.7010	0.00	0.07	
1708154-06 HgII	2089.980	137.8	218.5	209.71	209.77	162.1	8.869	OK	209.7010	0.00	0.07	

017



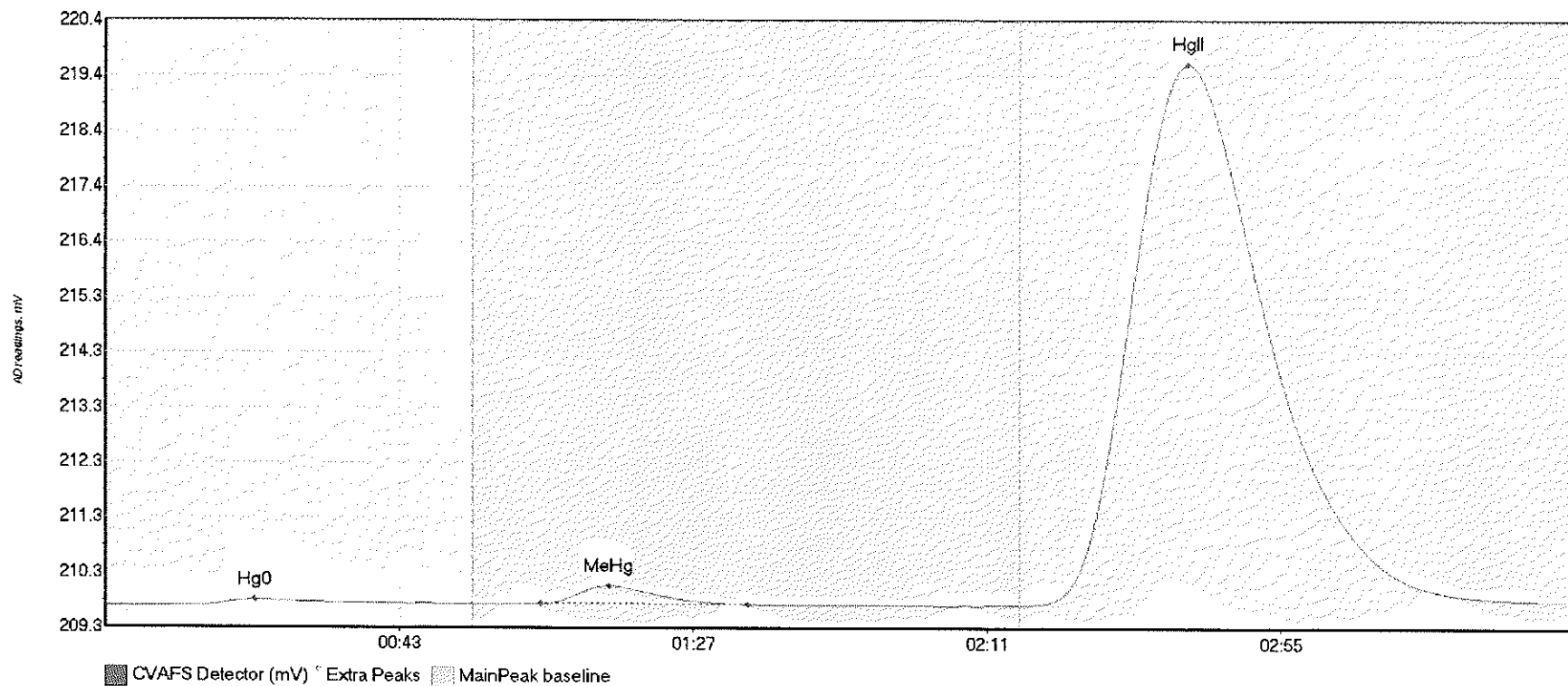
#78: 1708155-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708155-01 Hg0	12.833	13.8	53.4	209.69	209.73	23.5	0.081	OK	209.6878	0.00	0.07	
1708155-01 MeHg	57.048	64.9	100.4	209.72	209.72	75.4	0.410	OK	209.6878	0.00	0.07	
1708155-01 HgII	1825.637	136.8	219.5	209.70	209.76	162.2	7.766	OK	209.6878	0.00	0.07	

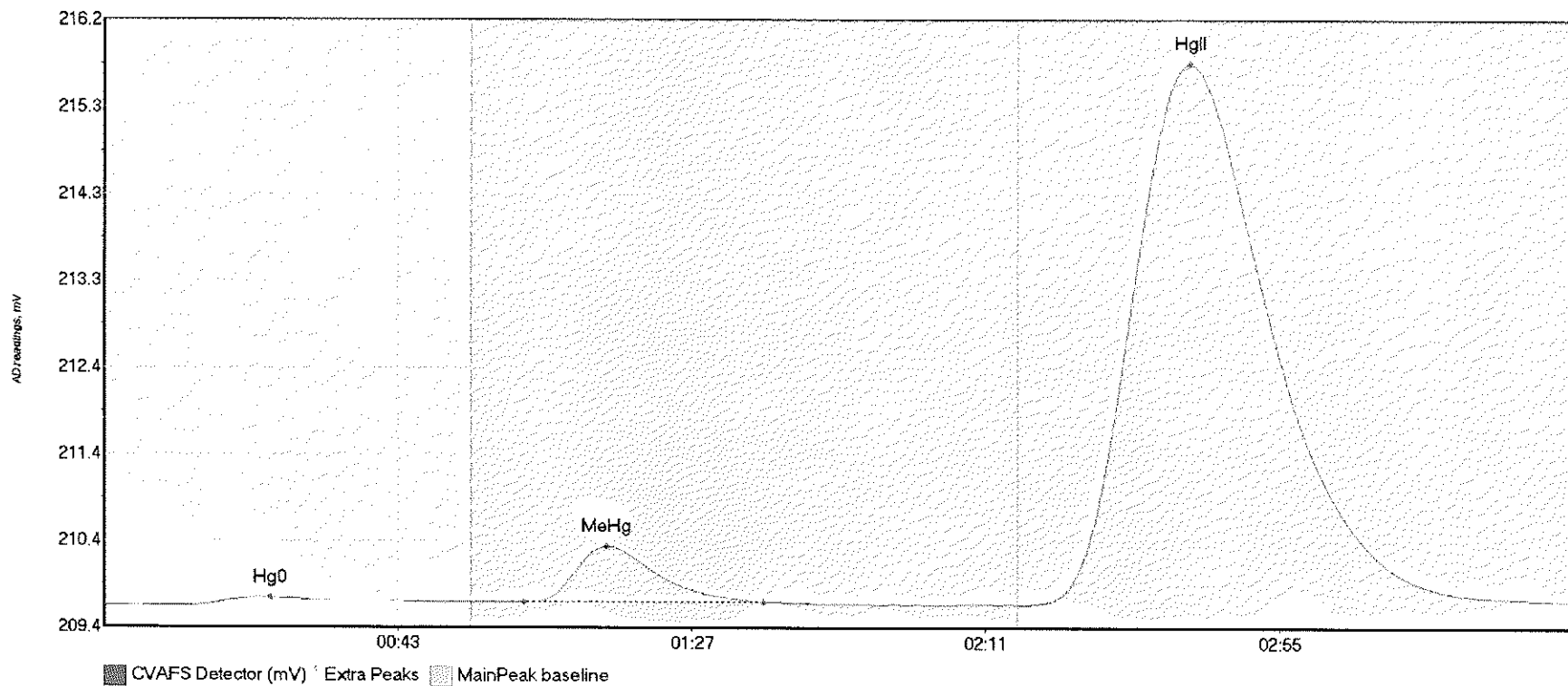
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#79: 1708155-02



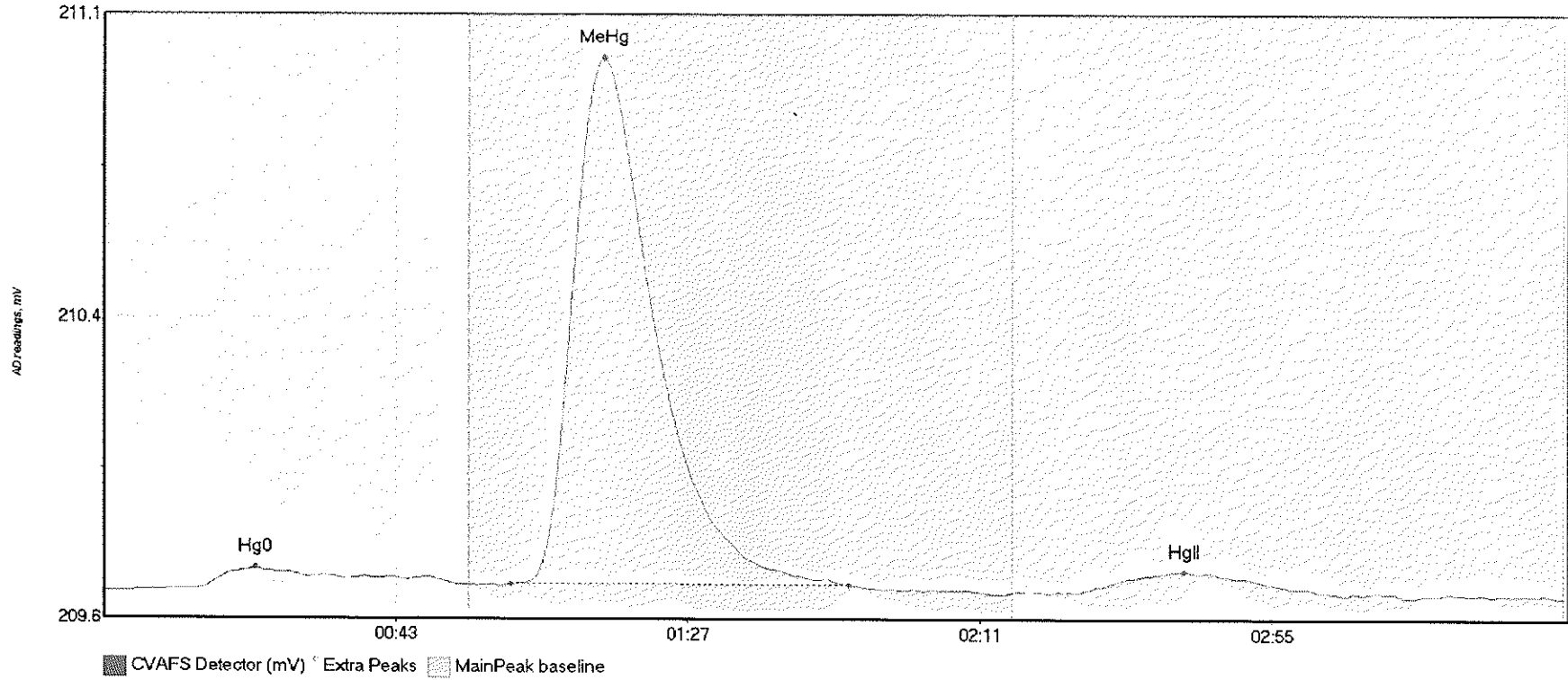
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708155-02 Hg0	16.156	9.7	53.0	209.69	209.73	22.4	0.106	OK	209.6875	0.00	0.09	
1708155-02 MeHg	44.076	65.2	96.1	209.73	209.72	75.5	0.331	OK	209.6875	0.00	0.09	
1708155-02 HgII	2299.970	136.8	219.7	209.71	209.77	162.1	9.885	OK	209.6875	0.00	0.09	

#80: 1708155-03



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708155-03 Hg0	12.422	7.9	48.3	209.69	209.73	25.0	0.088	OK	209.6831	0.00	0.05	
1708155-03 MeHg	85.374	62.9	98.7	209.73	209.73	75.3	0.625	OK	209.6831	0.00	0.05	
1708155-03 HgII	1435.330	138.0	219.8	209.70	209.74	162.6	6.055	CF	209.6831	0.00	0.05	

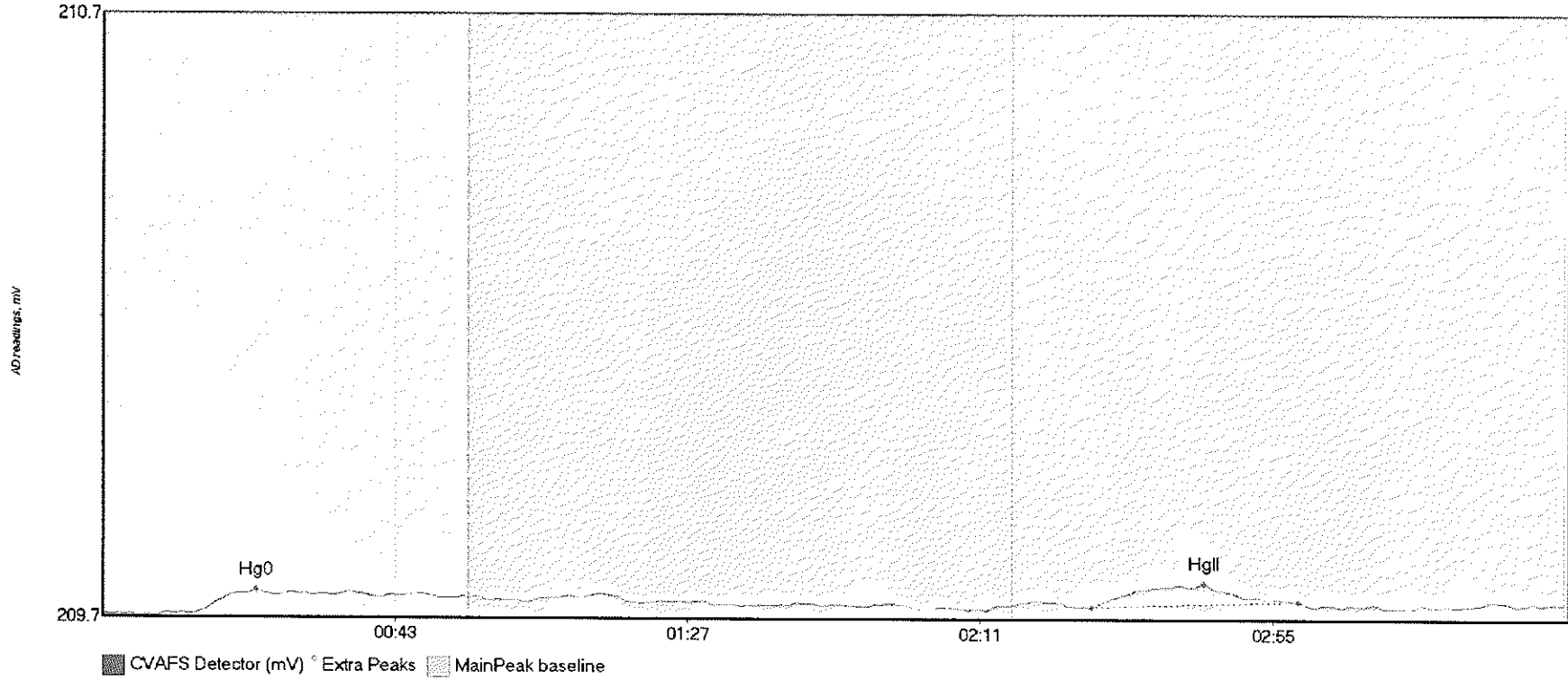
#81: SEQ-CCV6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV6 Hg0	10.306	11.2	54.8	209.69	209.70	22.8	0.053	OK	209.6843	0.00	-0.01	
SEQ-CCV6 MeHg	187.688	61.3	112.2	209.70	209.70	75.4	1.317	OK	209.6843	0.00	-0.01	
SEQ-CCV6 HgII	11.133	146.6	183.4	209.68	209.68	162.7	0.053	OK	209.6843	0.00	-0.01	

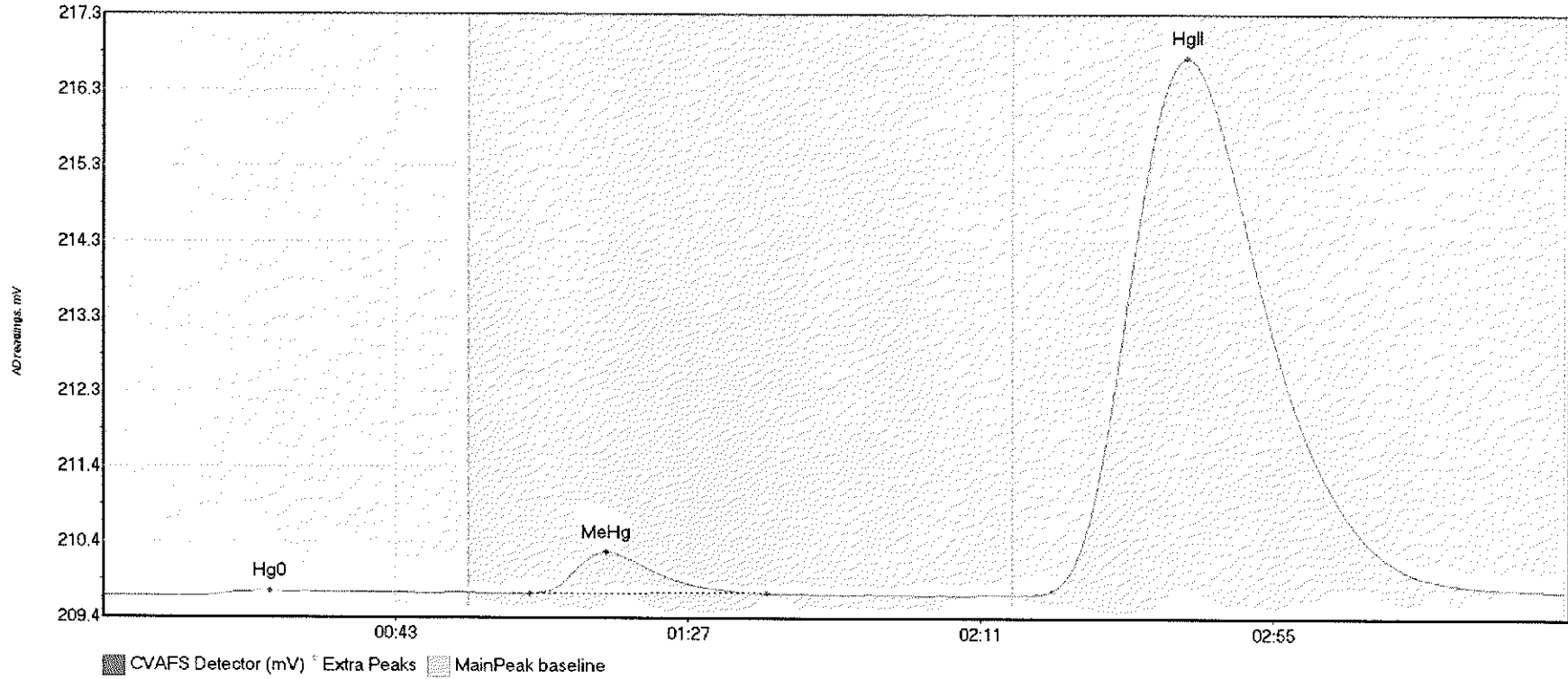
017

#82: SEQ-CCB6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB6 Hg0	6.514	13.7	51.9	209.67	209.69	23.2	0.039	OK	209.6654	0.00	0.02	
SEQ-CCB6 HgII	5.975	148.7	179.8	209.68	209.69	165.6	0.041	OK	209.6654	0.00	0.02	

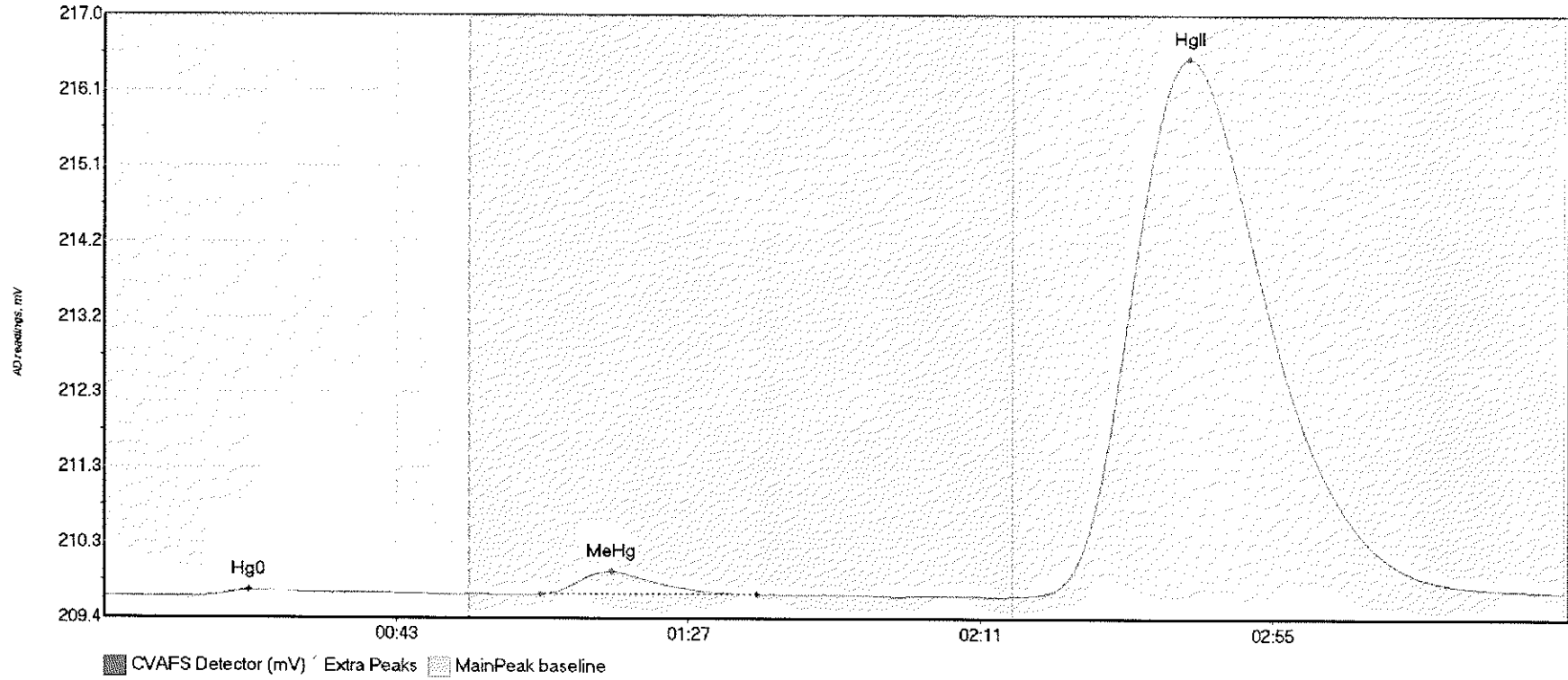
#83: 1708155-04



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708155-04 Hg0	9.411	12.8	48.9	209.66	209.71	25.1	0.062	OK	209.6649	0.00	0.08	
1708155-04 MeHg	73.075	64.1	99.9	209.70	209.71	75.7	0.537	OK	209.6649	0.00	0.08	
1708155-04 HgII	1661.586	139.1	218.1	209.69	209.74	163.0	7.014	OK	209.6649	0.00	0.08	

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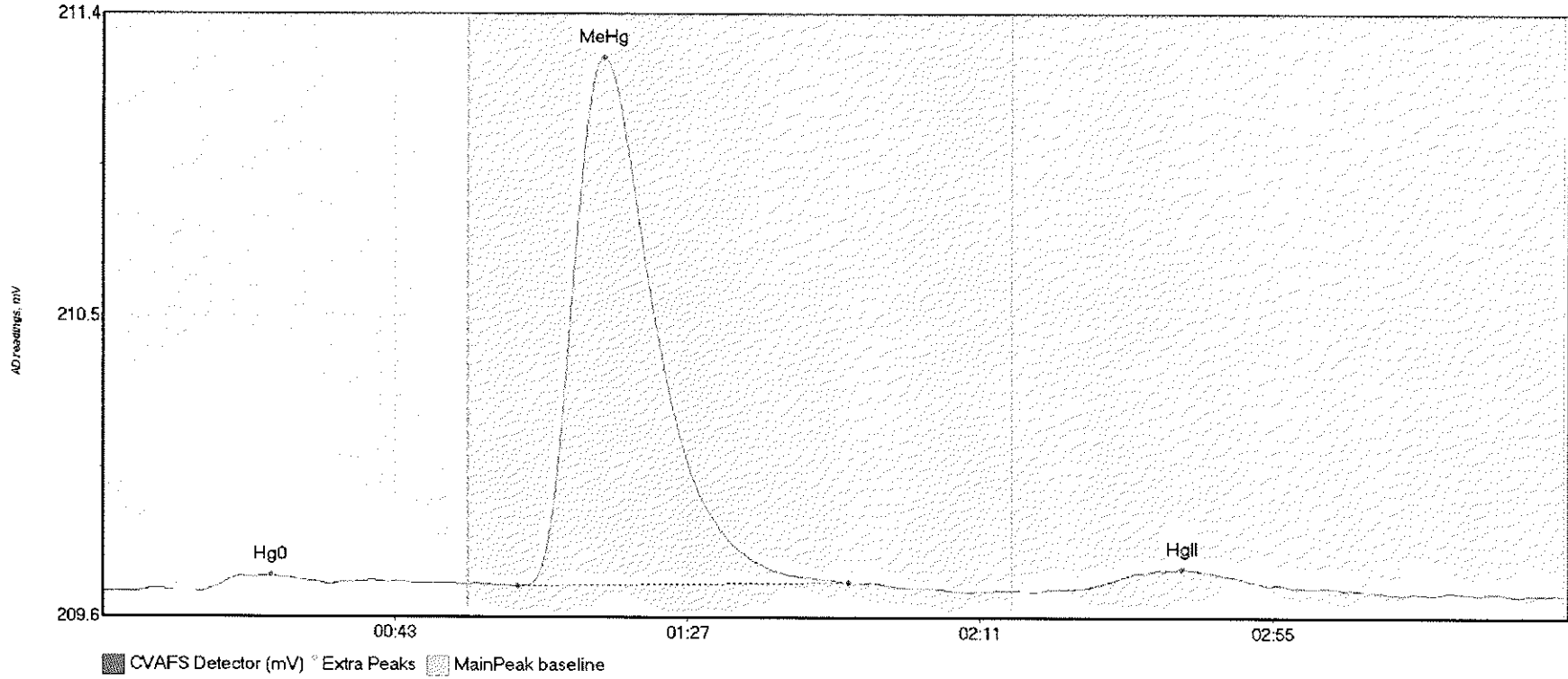
#84: 1708155-05



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708155-05 Hg0	12.784	13.2	50.2	209.67	209.70	21.7	0.080	OK	209.6705	0.00	0.07	
1708155-05 MeHg	37.912	65.7	98.3	209.70	209.70	76.4	0.287	OK	209.6705	0.00	0.07	
1708155-05 HgII	1615.804	136.8	219.2	209.68	209.74	163.5	6.805	OK	209.6705	0.00	0.07	

017

#85: SEQ-CCV7

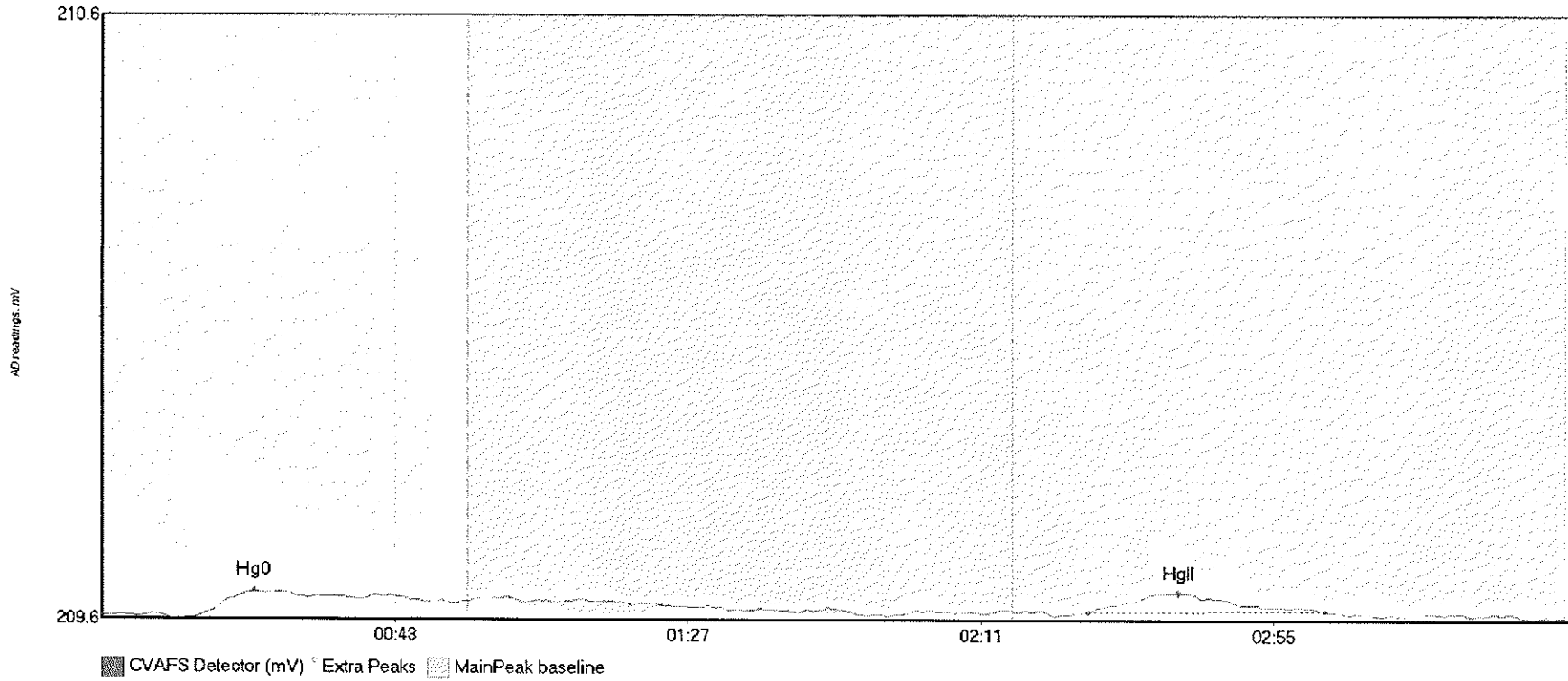


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV7 Hg0	4.597	14.9	34.0	209.67	209.69	25.3	0.050	OK	209.6692	0.00	-0.01	
SEQ-CCV7 MeHg	232.534	62.4	112.3	209.69	209.70	75.4	1.627	OK	209.6692	0.00	-0.01	
SEQ-CCV7 HgII	12.154	145.7	186.6	209.68	209.68	162.5	0.062	OK	209.6692	0.00	-0.01	

017



#86: SEQ-CCB7



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakReight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB7 Hg0	7.486	14.1	53.3	209.65	209.67	22.8	0.043	OK	209.6530	0.00	0.00	
SEQ-CCB7 HgII	5.566	148.2	183.8	209.66	209.66	161.7	0.033	OK	209.6530	0.00	0.00	



Frontier Global Sciences

Analysis Datasheet for Total Mercury

Date of Analysis: August 25, 2017

Analyst: BC

Instrument #: Hg2600-3

Units ng/L

LIMS Sequence #: 7H28011, 7H28012

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.50 ng/L	93.67 units	187.35	86.74 units	173.49	101.6 %Rec
SEQ-CAL2	1	1.00 ng/L	180.70 units	180.70	173.77 units	173.77	101.8 %Rec
SEQ-CAL3	1	5.00 ng/L	852.81 units	170.56	845.88 units	169.18	99.1 %Rec
SEQ-CAL4	1	20.00 ng/L	3321.44 units	166.07	3314.51 units	165.73	97.1 %Rec
SEQ-CAL5	1	40.00 ng/L	6863.62 units	171.59	6856.69 units	171.42	100.4 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

**Corr. Mean RF**    **Corr. St Dev RF**    **Corr. RSD CF**    **Uncorr. Mean RF**  
 170.72            +/- 3.35            2.0% RSD            175.26

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	3	6.93 units	±3.79	0.04 ng/L	±0.02

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	2	0.974 ng/L	±0.482
BLK	2	3	11.144 ng/L	±1.786
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	
BLK	6	0	0.000 ng/L	

QUALITY ASSURANCE  
PEER-REVIEWED

INITIALS:           A 8/29/17

Instrument	Sample		LabNumber	Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments
	Analyst	Type								Correction?	RESP				
Hg2600-3	BC	CAL	SEQ-IBL1	1	8/25/2017 8:58:59	83930-1.RAW	8:58:59 AM	9.41			2.5	0.015	0.015	ng/L	
Hg2600-3	BC	CAL	SEQ-IBL2	1	8/25/2017 9:03:08	83931-1.RAW	9:03:08 AM	2.57			-4.4	-0.026	-0.026	ng/L	
Hg2600-3	BC	CAL	SEQ-IBL3	1	8/25/2017 9:07:16	83932-1.RAW	9:07:16 AM	8.81			1.9	0.011	0.011	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL1	1	8/25/2017 9:11:25	83933-1.RAW	9:11:25 AM	93.67			86.7	0.508	0.508	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL2	1	8/25/2017 9:15:33	83934-1.RAW	9:15:33 AM	180.70			173.8	1.018	1.018	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL3	1	8/25/2017 9:19:41	83935-1.RAW	9:19:41 AM	852.81			845.9	4.955	4.955	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL4	1	8/25/2017 9:23:50	83936-1.RAW	9:23:50 AM	3321.44			3314.5	19.415	19.415	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL5	1	8/25/2017 9:27:58	83937-1.RAW	9:27:58 AM	6863.62			6856.7	40.165	40.165	ng/L	
Hg2600-3	BC	CAL	SEQ-ICV1	1	8/25/2017 9:32:07	83938-1.RAW	9:32:07 AM	903.83			896.9	5.254	5.254	ng/L	
Hg2600-3	BC	BLK	F708512-BLK1	10	8/25/2017 9:36:15	83939-1.RAW	9:36:15 AM	29.38	1		22.5	0.132	1.315	ng/L	
Hg2600-3	BC	BLK	F708512-BLK2	10	8/25/2017 9:40:24	83940-1.RAW	9:40:24 AM	17.75	1		10.8	0.063	0.634	ng/L	
Hg2600-3	BC	SAM	F708512-BS1	100	8/25/2017 9:44:32	83941-1.RAW	9:44:32 AM	400.35	1		393.4	2.295	229.480	ng/L	
Hg2600-3	BC	SAM	F708512-BSD1	100	8/25/2017 9:48:40	83942-1.RAW	9:48:40 AM	379.28	1		372.4	2.171	217.138	ng/L	
Hg2600-3	BC	SAM	1708151-38	50	8/25/2017 9:52:49	83943-1.RAW	9:52:49 AM	2597.36	1		2590.4	15.154	757.725	ng/L	
Hg2600-3	BC	SAM	1708151-39	50	8/25/2017 9:56:57	83944-1.RAW	9:56:57 AM	2728.76	1		2721.9	15.924	796.217	ng/L	
Hg2600-3	BC	SAM	1708151-40	50	8/25/2017 10:01:06	83945-1.RAW	10:01:06 AM	1568.02	1		1561.1	9.125	456.245	ng/L	
Hg2600-3	BC	SAM	1708151-41	50	8/25/2017 10:05:14	83946-1.RAW	10:05:14 AM	3408.15	1		3401.2	19.904	995.194	ng/L	
Hg2600-3	BC	SAM	1708151-42	50	8/25/2017 10:09:22	83947-1.RAW	10:09:22 AM	4368.35	1		4361.4	25.528	1276.422	ng/L	
Hg2600-3	BC	SAM	1708151-43	50	8/25/2017 10:13:31	83948-1.RAW	10:13:31 AM	5274.65	1		5267.7	30.837	1541.865	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV1	1	8/25/2017 10:17:39	83949-1.RAW	10:17:39 AM	886.17			879.2	5.150	5.150	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB1	1	8/25/2017 10:21:48	83950-1.RAW	10:21:48 AM	39.17			32.2	0.189	0.189	ng/L	
Hg2600-3	BC	SAM	1708151-44	50	8/25/2017 10:25:56	83951-1.RAW	10:25:56 AM	8973.31	1		8966.4	52.503	2625.149	ng/L	
Hg2600-3	BC	SAM	1708151-45	50	8/25/2017 10:30:05	83952-1.RAW	10:30:05 AM	8061.55	1		8054.6	47.162	2358.108	ng/L	
Hg2600-3	BC	SAM	1708151-46	50	8/25/2017 10:34:13	83953-1.RAW	10:34:13 AM	3381.74	1		3374.8	19.749	987.459	ng/L	
Hg2600-3	BC	SAM	1708151-47	50	8/25/2017 10:38:21	83954-1.RAW	10:38:21 AM	571.87	1		564.9	3.290	164.489	ng/L	
Hg2600-3	BC	SAM	1708151-48	50	8/25/2017 10:42:30	83955-1.RAW	10:42:30 AM	251.67	1		244.7	1.414	70.705	ng/L	
Hg2600-3	BC	SAM	1708151-49	50	8/25/2017 10:46:38	83956-1.RAW	10:46:38 AM	214.98	1		208.1	1.199	59.961	ng/L	
Hg2600-3	BC	SAM	1708151-50	50	8/25/2017 10:50:47	83957-1.RAW	10:50:47 AM	231.44	1		224.5	1.296	64.781	ng/L	
Hg2600-3	BC	SAM	1708151-51	50	8/25/2017 10:54:55	83958-1.RAW	10:54:55 AM	722.66	1		715.7	4.173	208.652	ng/L	
Hg2600-3	BC	SAM	1708151-52	50	8/25/2017 10:59:03	83959-1.RAW	10:59:03 AM	220.04	1		213.1	1.229	61.442	ng/L	
Hg2600-3	BC	SAM	1708151-53	50	8/25/2017 11:03:12	83960-1.RAW	11:03:12 AM	1369.80	1		1362.9	7.964	398.189	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV2	1	8/25/2017 11:07:20	83961-1.RAW	11:07:20 AM	880.43			873.5	5.117	5.117	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB2	1	8/25/2017 11:11:29	83962-1.RAW	11:11:29 AM	27.23			20.3	0.119	0.119	ng/L	
Hg2600-3	BC	SAM	1708151-54	50	8/25/2017 11:15:37	83963-1.RAW	11:15:37 AM	102.44	1		95.5	0.540	26.997	ng/L	
Hg2600-3	BC	SAM	1708151-55	50	8/25/2017 11:19:46	83964-1.RAW	11:19:46 AM	226.11	1		219.2	1.264	63.221	ng/L	
Hg2600-3	BC	SAM	1708151-56	50	8/25/2017 11:23:54	83965-1.RAW	11:23:54 AM	67.45	1		60.5	0.335	16.750	ng/L	
Hg2600-3	BC	SAM	1708151-57	50	8/25/2017 11:28:02	83966-1.RAW	11:28:02 AM	677.39	1		670.5	3.908	195.393	ng/L	
Hg2600-3	BC	SAM	F708512-MS1	400	8/25/2017 11:32:11	83967-1.RAW	11:32:11 AM	1490.29	1		1483.4	8.687	3474.668	ng/L	
Hg2600-3	BC	SAM	F708512-MSD1	400	8/25/2017 11:36:19	83968-1.RAW	11:36:19 AM	1488.00	1		1481.1	8.673	3469.305	ng/L	
Hg2600-3	BC	SAM	F708512-MS2	400	8/25/2017 11:40:28	83969-1.RAW	11:40:28 AM	1192.81	1		1185.9	6.944	2777.639	ng/L	
Hg2600-3	BC	SAM	F708512-MSD2	400	8/25/2017 11:44:36	83970-1.RAW	11:44:36 AM	1151.93	1		1145.0	6.705	2681.861	ng/L	
Hg2600-3	BC	SAM	1708151-44RE1	400	8/25/2017 11:48:45	83971-1.RAW	11:48:45 AM	1141.14	1		1134.2	6.641	2656.562	ng/L	
Hg2600-3	BC	SAM	1708151-45RE1	400	8/25/2017 11:52:53	83972-1.RAW	11:52:53 AM	978.01	1		971.1	5.686	2274.353	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV3	1	8/25/2017 11:57:01	83973-1.RAW	11:57:01 AM	873.40			866.5	5.076	5.076	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB3	1	8/25/2017 12:01:10	83974-1.RAW	12:01:10 PM	26.44			19.5	0.114	0.114	ng/L	
Hg2600-3	BC	SAM	1708151-46RE1	50	8/25/2017 12:05:18	83975-1.RAW	12:05:18 PM	3198.85	1		3191.9	18.678	933.892	ng/L	
Hg2600-3	BC	SAM	1708151-54RE1	10	8/25/2017 12:09:27	83976-1.RAW	12:09:27 PM	475.55	1		468.6	2.648	26.476	ng/L	
Hg2600-3	BC	SAM	1708151-56RE1	10	8/25/2017 12:13:35	83977-1.RAW	12:13:35 PM	221.10	1		214.2	1.157	11.571	ng/L	
Hg2600-3	BC	BLK	F708521-BLK1	100	8/25/2017 12:17:43	83978-1.RAW	12:17:43 PM	25.23	2		18.3	0.107	10.721	ng/L	
Hg2600-3	BC	BLK	F708521-BLK2	100	8/25/2017 12:21:52	83979-1.RAW	12:21:52 PM	23.33	2		16.4	0.096	9.608	ng/L	
Hg2600-3	BC	BLK	F708521-BLK3	100	8/25/2017 12:26:00	83980-1.RAW	12:26:00 PM	29.30	2		22.4	0.131	13.103	ng/L	
Hg2600-3	BC	SAM	F708521-BS1	400	8/25/2017 12:30:09	83981-1.RAW	12:30:09 PM	793.89	2		787.0	4.582	1832.776	ng/L	
Hg2600-3	BC	SAM	F708521-BSD1	400	8/25/2017 12:34:17	83982-1.RAW	12:34:17 PM	814.27	2		807.3	4.701	1880.513	ng/L	
Hg2600-3	BC	SAM	1708555-01	2500	8/25/2017 12:38:26	83983-1.RAW	12:38:26 PM	266.17	2		259.2	1.514	3785.203	ng/L	
Hg2600-3	BC	SAM	1708555-02	2500	8/25/2017 12:42:34	83984-1.RAW	12:42:34 PM	660.15	2		653.2	3.822	9554.816	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV4	1	8/25/2017 12:46:42	83985-1.RAW	12:46:42 PM	860.93			854.0	5.002	5.002	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB4	1	8/25/2017 12:50:51	83986-1.RAW	12:50:51 PM	26.37			19.4	0.114	0.114	ng/L	

Sample			LabNumber	Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Instrument	Analyst	Type													
Hg2600-3	BC	SAM	1708634-01 ✓	2500	8/25/2017 12:54:59	83987-1.RAW	12:54:59 PM	68.24	2		61.3	0.355	886.744	ng/L	
Hg2600-3	BC	SAM	1708634-02 ✓	2500	8/25/2017 12:59:08	83988-1.RAW	12:59:08 PM	54.19	2		47.3	0.272	680.876	ng/L	
Hg2600-3	BC	SAM	1708636-01 ✓	2500	8/25/2017 13:03:16	83989-1.RAW	1:03:16 PM	2383.02	2		2376.1	13.914	34785.044	ng/L	
Hg2600-3	BC	SAM	1708636-02 ✓	2500	8/25/2017 13:07:24	83990-1.RAW	1:07:24 PM	2914.37	2		2907.4	17.027	42566.259	ng/L	
Hg2600-3	BC	SAM	1708555-01B ✓	100	8/25/2017 13:11:33	83991-1.RAW	1:11:33 PM	53.92	2		47.0	0.164	16.383	ng/L	
Hg2600-3	BC	SAM	1708555-02B ✓	100	8/25/2017 13:15:41	83992-1.RAW	1:15:41 PM	37.64	2		30.7	0.068	6.843	ng/L	
Hg2600-3	BC	SAM	1708151-44RE2 ✓	50	8/25/2017 13:19:50	83993-1.RAW	1:19:50 PM	8745.22	1		8738.3	51.167	2558.345	ng/L	
Hg2600-3	BC	SAM	1708151-45RE2 ✓	50	8/25/2017 13:23:58	83994-1.RAW	1:23:58 PM	7373.02	1		7366.1	43.129	2156.448	ng/L	
Hg2600-3	BC	SAM	1708151-46RE2 ✓	50	8/25/2017 13:28:07	83995-1.RAW	1:28:07 PM	3222.74	1		3215.8	18.818	940.891	ng/L	
Hg2600-3	BC	SAM	1708151-47RE1 ✓	50	8/25/2017 13:32:15	83996-1.RAW	1:32:15 PM	565.84	1		558.9	3.254	162.722	ng/L	
Hg2600-3	BC	SAM	WS		8/25/2017 13:41:46	83998-2.RAW	1:41:46 PM	256.5766508		x	249.6	1.462	0.000	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV5 ✓	1	8/25/2017 13:45:55	83997-2.RAW	1:45:55 PM	878.21			871.3	5.104	5.104	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB5 ✓	1	8/25/2017 13:50:03	83999-1.RAW	1:50:03 PM	37.78			30.9	0.181	0.181	ng/L	
Hg2600-3	BC	SAM	1708634-01B ✓	100	8/25/2017 13:54:12	84000-1.RAW	1:54:12 PM	144.15	2		137.2	0.692	69.237	ng/L	
Hg2600-3	BC	SAM	1708634-02B ✓	100	8/25/2017 13:58:20	84001-1.RAW	1:58:20 PM	159.51	2		152.6	0.782	78.234	ng/L	
Hg2600-3	BC	SAM	1708636-01B ✓	100	8/25/2017 14:02:29	84002-1.RAW	2:02:29 PM	74.46	2		67.5	0.284	28.413	ng/L	
Hg2600-3	BC	SAM	1708636-02B ✓	100	8/25/2017 14:06:37	84003-1.RAW	2:06:37 PM	103.29	2		96.4	0.453	45.300	ng/L	
Hg2600-3	BC	SAM	1708634-01C ✓	2500	8/25/2017 14:10:45	84004-1.RAW	2:10:45 PM	1717.10	2		1710.2	10.013	25033.105	ng/L	
Hg2600-3	BC	SAM	1708634-02C ✓	2500	8/25/2017 14:14:54	84005-1.RAW	2:14:54 PM	1697.58	2		1690.7	9.899	24747.228	ng/L	
Hg2600-3	BC	SAM	1708636-01C ✓	5000	8/25/2017 14:19:02	84006-1.RAW	2:19:02 PM	4696.02	2		4689.1	27.465	137325.608	ng/L	
Hg2600-3	BC	SAM	1708636-02C ✓	5000	8/25/2017 14:23:11	84007-1.RAW	2:23:11 PM	4842.87	2		4835.9	28.325	141626.656	ng/L	
Hg2600-3	BC	SAM	1708634-01RE1 ✓	400	8/25/2017 14:27:19	84008-1.RAW	2:27:19 PM	318.66	2		311.7	1.798	719.252	ng/L	
Hg2600-3	BC	SAM	1708634-02RE1 ✓	400	8/25/2017 14:31:28	84009-1.RAW	2:31:28 PM	277.00	2		270.1	1.554	621.657	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV6 ✓	1	8/25/2017 14:35:36	84010-1.RAW	2:35:36 PM	866.45			859.5	5.035	5.035	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB6 ✓	1	8/25/2017 14:39:45	84011-1.RAW	2:39:45 PM	43.09			36.2	0.212	0.212	ng/L	
Hg2600-3	BC	SAM	1708636-01RE1 ✓	2500	8/25/2017 14:43:53	84012-1.RAW	2:43:53 PM	2553.04	2		2546.1	14.910	37274.838	ng/L	
Hg2600-3	BC	SAM	1708636-02RE1 ✓	2500	8/25/2017 14:48:01	84013-1.RAW	2:48:01 PM	2974.05	2		2967.1	17.376	43440.172	ng/L	
Hg2600-3	BC	SAM	WS		8/25/2017 14:55:41	84014-1.RAW	2:55:41 PM	114.14		x	107.2	0.628	0.000	ng/L	
Hg2600-3	BC	SAM	1708634-01BRE1 ✓	100	8/25/2017 14:59:49	84015-1.RAW	2:59:49 PM	159.18	2		152.2	0.780	78.037	ng/L	
Hg2600-3	BC	SAM	1708634-02BRE1 ✓	100	8/25/2017 15:03:58	84016-1.RAW	3:03:58 PM	161.49	2		154.6	0.794	79.393	ng/L	
Hg2600-3	BC	SAM	F708521-DUP1 ✓	2500	8/25/2017 15:08:06	84017-1.RAW	3:08:06 PM	694.89	2		688.0	4.025	10063.493	ng/L	
Hg2600-3	BC	SAM	F708521-MS1 ✓	2500	8/25/2017 15:12:14	84018-1.RAW	3:12:14 PM	4084.25	2		4077.3	23.879	59698.332	ng/L	
Hg2600-3	BC	SAM	F708521-MSD1 ✓	2500	8/25/2017 15:16:23	84019-1.RAW	3:16:23 PM	3937.49	2		3930.6	23.020	57549.122	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV7 ✓	1	8/25/2017 15:20:31	84020-1.RAW	3:20:31 PM	898.87			891.9	5.225	5.225	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB7 ✓	1	8/25/2017 15:24:40	84021-1.RAW	3:24:40 PM	56.43			49.5	0.290	0.290	ng/L	

TotalMercury EPA1631  
 Operati BC  
 BlankS: 6.9315  
 Calib Eqn: Conc = (Area-6.931  
 Run Date: 8/25/2017  
 Blank SD: 3.785103405  
 Worksh THg2600  
 CalibFa 170.72  
 Status: QC Warnings:10/QC  
 Run Time: 14:51:32  
 Blank RSD%: 54.60753247  
 Method ### R: 0.9999  
 R<sup>2</sup>: 0.9997  
 CF SD: 3.345544991  
 CF RSD%: 1.959724893  
 Descrip THg26002-170825-1

Sample/ID	Location Rinse	Dilute	Blank	Conc (ppt)	MB%	FinalConc	Rec%	QA	RawData	RunEnd	Peak (Raw)	Control (etf)	Flags	RunCount
Clean			0.00	5.42					83925-1.RAW	8:39:34	924.91	Clean	OK	1
clean			0.00	0.00					83926-1.RAW	8:42:26	0.42	Clean	OK	1
ws			6.93	0.00					83927-1.RAW	8:46:34	7.68	Sample	OK	1
ws			6.93	0.00					83928-1.RAW	8:50:43	0.76	Sample	OK	1
ws			6.93	0.02					83929-1.RAW	8:54:51	10.59	Sample	OK	1
SEQ-IBL1	A1	1	0.00	0.06					83930-1.RAW	8:58:59	9.41	Sample	OK	1
SEQ-IBL2	A2	1	0.00	0.02					83931-1.RAW	9:03:08	2.57	Sample	OK	1
SEQ-IBL3	A3	1	0.00	0.05					83932-1.RAW	9:07:16	8.81	Sample	OK	1
SEQ-CAL1	A4	1	6.93	0.51			101.62		83933-1.RAW	9:11:25	93.67	Sample	OK	1
SEQ-CAL2	A5	1	6.93	1.02			101.79		83934-1.RAW	9:15:33	180.70	Sample	OK	1
SEQ-CAL3	A6	1	6.93	4.95			99.10		83935-1.RAW	9:19:41	852.81	Sample	OK	1
SEQ-CAL4	A7	1	6.93	19.42			97.08		83936-1.RAW	9:23:50	3321.44	Sample	OK	1
SEQ-CAL5	A8	1	6.93	40.16			100.41		83937-1.RAW	9:27:58	6863.62	Sample	OK	1
SEQ-ICV1	A9	1	6.93	5.25			105.08		83938-1.RAW	9:32:07	903.83	Sample	OK	1
F708512-BLK1	A10	10	6.93	1.32					83939-1.RAW	9:36:15	29.38	Sample	OK	1
F708512-BLK2	A11	10	6.93	0.63					83940-1.RAW	9:40:24	17.75	Sample	OK	1
F708512-BS1	A12	100	6.93	230.45					83941-1.RAW	9:44:32	400.35	Sample	OK	1
F708512-BSD1	A13	100	6.93	218.11					83942-1.RAW	9:48:40	379.28	Sample	OK	1
1708151-38	A14	50	6.93	758.70					83943-1.RAW	9:52:49	2597.36	Sample	OK	1
1708151-39	A15	50	6.93	797.19					83944-1.RAW	9:56:57	2728.78	Sample	OK	1
1708151-40	A16	50	6.93	457.22					83945-1.RAW	10:01:06	1568.02	Sample	OK	1
1708151-41	A17	50	6.93	996.17					83946-1.RAW	10:05:14	3408.15	Sample	OK	1
1708151-42	A18	50	6.93	1277.40					83947-1.RAW	10:09:22	4368.35	Sample	OK	1
1708151-43	A19	50	6.93	1542.84					83948-1.RAW	10:13:31	5274.65	Sample	OK	1
SEQ-CCV1	A20	1	6.93	5.15			103.01		83949-1.RAW	10:17:39	886.17	Sample	OK	1
SEQ-CCB1	A21	1	6.93	0.19			0.00		83950-1.RAW	10:21:48	39.17	Sample	OK	1
1708151-44	B1	50	6.93	2626.12					83951-1.RAW	10:25:56	8973.31	Sample	OK	1
1708151-45	B2	50	6.93	2359.08					83952-1.RAW	10:30:05	8061.55	Sample	OK	1
1708151-46	B3	50	6.93	988.43					83953-1.RAW	10:34:13	3381.74	Sample	OK	1
1708151-47	B4	50	6.93	165.46					83954-1.RAW	10:38:21	571.87	Sample	OK	1
1708151-48	B5	50	6.93	71.68					83955-1.RAW	10:42:30	251.67	Sample	OK	1
1708151-49	B6	50	6.93	60.94					83956-1.RAW	10:46:38	214.98	Sample	OK	1
1708151-50	B7	50	6.93	65.75					83957-1.RAW	10:50:47	231.44	Sample	OK	1
1708151-51	B8	50	6.93	209.63					83958-1.RAW	10:54:55	722.66	Sample	OK	1
1708151-52	B9	50	6.93	62.42					83959-1.RAW	10:59:03	220.04	Sample	OK	1
1708151-53	B10	50	6.93	399.16					83960-1.RAW	11:03:12	1369.80	Sample	OK	1
SEQ-CCV2	B11	1	6.93	5.12			102.33		83961-1.RAW	11:07:20	880.43	Sample	OK	1
SEQ-CCB2	B12	1	6.93	0.12			0.00		83962-1.RAW	11:11:29	27.23	Sample	OK	1
1708151-54	B13	50	6.93	27.97					83963-1.RAW	11:15:37	102.44	Sample	OK	1
1708151-55	B14	50	6.93	64.20					83964-1.RAW	11:19:46	226.11	Sample	OK	1
1708151-56	B15	50	6.93	17.72					83965-1.RAW	11:23:54	67.45	Sample	OK	1
1708151-57	B16	50	6.93	196.37					83966-1.RAW	11:28:02	677.39	Sample	OK	1
F708512-MS1	B17	400	6.93	3475.64			1761.00		83967-1.RAW	11:32:11	1490.29	Sample	OK	1
F708512-MSD1	B18	400	6.93	3470.28					83968-1.RAW	11:36:19	1488.00	Sample	OK	1
F708512-MS2	B19	400	6.93	2778.61			80.02		83969-1.RAW	11:40:28	1192.81	Sample	OK	1
F708512-MSD2	B20	400	6.93	2682.84					83970-1.RAW	11:44:36	1151.93	Sample	OK	1
1708151-44RE1	B21	400	6.93	2657.54					83971-1.RAW	11:48:45	1141.14	Sample	OK	1
1708151-45RE1	C1	400	6.93	2275.33					83972-1.RAW	11:52:53	978.01	Sample	OK	1
SEQ-CCV3	C2	1	6.93	5.08			101.51		83973-1.RAW	11:57:01	873.40	Sample	OK	1

SEQ-CCB3	C3	1	6.93	0.11	0.00	83974-1.RAW	12:01:10	26.44	Sample	OK	1	
1708151-46RE1	C4	50	6.93	934.87		83975-1.RAW	12:05:18	3198.85	Sample	OK	1	
1708151-54RE1	C5	10	6.93	27.45		83976-1.RAW	12:09:27	475.55	Sample	OK	1	
1708151-56RE1	C6	10	6.93	12.55		83977-1.RAW	12:13:35	221.10	Sample	OK	1	
F708521-BLK1	C7	100	6.93	10.72		83978-1.RAW	12:17:43	25.23	Sample	OK	1	
F708521-BLK2	C8	100	6.93	9.61		83979-1.RAW	12:21:52	23.33	Sample	OK	1	
F708521-BLK3	C9	100	6.93	13.10		83980-1.RAW	12:26:00	29.30	Sample	OK	1	
F708521-BS1	C10	400	6.93	1843.92		83981-1.RAW	12:30:09	793.89	Sample	OK	1	
F708521-BSD1	C11	400	6.93	1891.66		83982-1.RAW	12:34:17	814.27	Sample	OK	1	
1708555-01	C12	2500	6.93	3796.35		83983-1.RAW	12:38:26	266.17	Sample	OK	1	
1708555-02	C13	2500	6.93	9565.96		83984-1.RAW	12:42:34	660.15	Sample	OK	1	
SEQ-CCV4	C14	1	6.93	5.00	100.05	83985-1.RAW	12:46:42	860.93	Sample	OK	1	
SEQ-CCB4	C15	1	6.93	0.11	0.00	83986-1.RAW	12:50:51	26.37	Sample	OK	1	
1708634-01	C16	2500	6.93	897.89		83987-1.RAW	12:54:59	68.24	Sample	OK	1	
1708634-02	C17	2500	6.93	692.02		83988-1.RAW	12:59:08	54.19	Sample	OK	1	
1708636-01	C18	2500	6.93	34796.19		83989-1.RAW	13:03:16	2383.02	Sample	OK	1	
1708636-02	C19	2500	6.93	42577.40		83990-1.RAW	13:07:24	2914.37	Sample	OK	1	
1708555-01B	C20	100	6.93	27.53		83991-1.RAW	13:11:33	53.92	Sample	OK	1	
1708555-02B	C21	100	6.93	17.99		83992-1.RAW	13:15:41	37.64	Sample	OK	1	
1708151-44RE2	B1	50	6.93	2559.32		83993-1.RAW	13:19:50	8745.22	Sample	OK	1	sampled wrong location
1708151-45RE2	B2	50	6.93	2157.42		83994-1.RAW	13:23:58	7373.02	Sample	OK	1	sampled wrong location
1708151-46RE2	B3	50	6.93	941.87		83995-1.RAW	13:28:07	3222.74	Sample	FB	1	sampled wrong location
1708151-47RE1	B4	50	6.93	163.70		83996-1.RAW	13:32:15	565.84	Sample	OK	1	sampled wrong location
WS			6.93	1.46		83998-2.RAW	13:41:46	256.58	Sample	OK	1	
SEQ-CCV5	A5	1	6.93	5.10	102.07	83997-2.RAW	13:45:55	878.21	Sample	OK	1	
SEQ-CCB5	A6	1	6.93	0.18	0.00	83999-1.RAW	13:50:03	37.78	Sample	OK	1	
1708634-01B	A1	100	6.93	80.38		84000-1.RAW	13:54:12	144.15	Sample	OK	1	
1708634-02B	A2	100	6.93	89.38		84001-1.RAW	13:58:20	159.51	Sample	OK	1	
1708636-01B	A3	100	6.93	39.56		84002-1.RAW	14:02:29	74.46	Sample	OK	1	
1708636-02B	A4	100	6.93	56.44		84003-1.RAW	14:06:37	103.29	Sample	OK	1	
1708634-01C	A7	2500	6.93	25044.25		84004-1.RAW	14:10:45	1717.10	Sample	OK	1	
1708634-02C	A8	2500	6.93	24758.37		84005-1.RAW	14:14:54	1697.58	Sample	OK	1	
1708636-01C	A9	5000	6.93	274673.50		84006-1.RAW	14:19:02	4696.02	Sample	OK	1	
1708636-02C	A10	5000	6.93	283275.60		84007-1.RAW	14:23:11	4842.87	Sample	OK	1	
1708634-01RE1	A11	400	6.93	730.40		84008-1.RAW	14:27:19	318.66	Sample	OK	1	
1708634-02RE1	A12	400	6.93	632.80		84009-1.RAW	14:31:28	277.00	Sample	OK	1	
SEQ-CCV6	A13	1	6.93	5.03	100.70	84010-1.RAW	14:35:36	866.45	Sample	OK	1	
SEQ-CCB6	A14	1	6.93	0.21	0.00	84011-1.RAW	14:39:45	43.09	Sample	OK	1	
1708636-01RE1	A15	2500	6.93	37285.98		84012-1.RAW	14:43:53	2553.04	Sample	OK	1	
1708636-02RE1	A16	2500	6.93	43451.32		84013-1.RAW	14:48:01	2974.05	Sample	OK	1	
WS			6.93	0.63		84014-1.RAW	14:55:41	114.14	Sample	OK	1	
1708634-01BRE	A17	100	6.93	89.18		84015-1.RAW	14:59:49	159.18	Sample	OK	1	
1708634-02BRE	A18	100	6.93	90.54		84016-1.RAW	15:03:58	161.49	Sample	OK	1	
F708521-DUP1	A19	2500	6.93	10074.64		84017-1.RAW	15:08:06	694.89	Sample	OK	1	
F708521-MS1	A20	2500	6.93	59709.48	592.61	84018-1.RAW	15:12:14	4084.25	Sample	OK	1	
F708521-MSD1	A21	2500	6.93	57560.27		84019-1.RAW	15:16:23	3937.49	Sample	OK	1	
SEQ-CCV7	B1	1	6.93	5.22	104.49	84020-1.RAW	15:20:31	898.87	Sample	OK	1	
SEQ-CCB7	B2	1	6.93	0.29	0.00	84021-1.RAW	15:24:40	56.43	Sample	OK	1	
SnCl2 1705144	B3	1	6.93	0.13		84022-1.RAW	15:28:48	28.69	Sample	OK	1	
CLEAN			0.00	0.05		84023-1.RAW	15:31:40	7.97	Clean	OK	1	
CLEAN			0.00	0.10		84024-1.RAW	15:34:31	16.47	Clean	OK	1	
WS			6.93	0.14		84025-1.RAW	15:38:39	30.75	Sample	OK	1	
WS			6.93	0.07		84026-1.RAW	15:42:48	19.01	Sample	OK	1	
WS			6.93	0.06		84027-1.RAW	15:46:56	17.53	Sample	OK	1	

ANALYSIS SEQUENCE

QUALITY ASSURANCE

7H28011

PEER-REVIEWED

Instrument: Hg2600-2



Calibration ID: UNASSIGNED

INITIALS: *R. 8/25/17* Analyzed: 8/25/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H28011-IBL1 ✓	QC	1			
7H28011-IBL2 ✓	QC	2			
7H28011-IBL3 ✓	QC	3			
7H28011-CAL1 ✓	QC	4	1704505 ✓		
7H28011-CAL2 ✓	QC	5	1704506 ✓		
7H28011-CAL3 ✓	QC	6	1704507 ✓		
7H28011-CAL4 ✓	QC	7	1704508 ✓		
7H28011-CAL5 ✓	QC	8	1704509 ✓		
7H28011-ICV1 ✓	QC	9	1703679 ✓		
F708512-BLK1 ✓	QC	10			
F708512-BLK2 ✓	QC	11			
F708512-BS1 ✓	QC	12			
F708512-BSD1 ✓	QC	13			
1708151-38 ✓	Hg-CVAFS-S-7474	14			
1708151-39 ✓	Hg-CVAFS-S-7474	15			
1708151-40 ✓	Hg-CVAFS-S-7474	16			
1708151-41 ✓	Hg-CVAFS-S-7474	17			
1708151-42 ✓	Hg-CVAFS-S-7474	18			
1708151-43 ✓	Hg-CVAFS-S-7474	19			
7H28011-CCV1 ✓	QC	20	1703679 ✓		
7H28011-CCB1 ✓	QC	21			
1708151-44 ✓	Hg-CVAFS-S-7474	22			
1708151-45 ✓	Hg-CVAFS-S-7474	23			
1708151-46 ✓	Hg-CVAFS-S-7474	24			
1708151-47 ✓	Hg-CVAFS-S-7474	25			
1708151-48 ✓	Hg-CVAFS-S-7474	26			
1708151-49 ✓	Hg-CVAFS-S-7474	27			
1708151-50 ✓	Hg-CVAFS-S-7474	28			
1708151-51 ✓	Hg-CVAFS-S-7474	29			
1708151-52 ✓	Hg-CVAFS-S-7474	30			
1708151-53 ✓	Hg-CVAFS-S-7474	31			
7H28011-CCV2 ✓	QC	32	1703679 ✓		
7H28011-CCB2 ✓	QC	33			
1708151-54 ✓	Hg-CVAFS-S-7474	34			
1708151-55 ✓	Hg-CVAFS-S-7474	35			

**ANALYSIS SEQUENCE**

**7H28011**



**Instrument: Hg2600-2**

**Calibration ID: UNASSIGNED**

**Analyzed: 8/25/2017**

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708151-56 ✓	Hg-CVAFS-S-7474	36			
1708151-57 ✓	Hg-CVAFS-S-7474	37			
F708512-MS1 ✓	QC	38			
F708512-MSD1 ✓	QC	39			
F708512-MS2 ✓	QC	40			
F708512-MSD2 ✓	QC	41			
1708151-44RE1	Hg-CVAFS-S-7474	42			Added 8/28/2017 by BC
1708151-45RE1 ✓	Hg-CVAFS-S-7474	43			Added 8/28/2017 by BC
7H28011-CCV3 ✓	QC	44	1703679 ✓		
7H28011-CCB3 ✓	QC	45			
1708151-46RE1 ✓	Hg-CVAFS-S-7474	46			Added 8/28/2017 by BC
1708151-54RE1 ✓	Hg-CVAFS-S-7474	47			Added 8/28/2017 by BC
1708151-56RE1 ✓	Hg-CVAFS-S-7474	48			Added 8/28/2017 by BC
7H28011-CCV4 ✓	QC	49	1703679 ✓		
7H28011-CCB4 ✓	QC	50			
1708151-44RE2 ✓	Hg-CVAFS-S-7474	51			Added 8/28/2017 by BC
1708151-45RE2 ✓	Hg-CVAFS-S-7474	52			Added 8/28/2017 by BC
1708151-46RE2 ✓	Hg-CVAFS-S-7474	53			Added 8/28/2017 by BC
1708151-47RE1 ✓	Hg-CVAFS-S-7474	54			Added 8/28/2017 by BC
7H28011-CCV5 ✓	QC	55	1703679		
7H28011-CCB5 ✓	QC	56			

*[Signature]* 8/28/17  
 Samples Loaded By Date

*[Signature]* 8/28/17  
 Data Processed By Date

1074-4  
 8/25/17



**PREPARATION BENCH SHEET**

F708512

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/23/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708512-BLK1	Blank	0.5	200					
F708512-BLK2	Blank	0.5	200					
F708512-BS1	Blank Spike	0.5	200	1701763	40			
F708512-BSD1	Blank Spike	0.5	200	1701763	40			
F708512-MS1	Matrix Spike [1708151-42]	0.551	200	1703591	50			
F708512-MS2	Matrix Spike [1708151-51]	0.538	200	1703591	50			
F708512-MSD1	Matrix Spike Dup [1708151-42]	0.56	200	1703591	50			
F708512-MSD2	Matrix Spike Dup [1708151-51]	0.572	200	1703591	50			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1701763	THg 1,000ng/mL Secondary Spiking Standard	22-Sep-17 00:00	1703182	25% Hydroxylamine-HCl working solution	24-Nov-17 00:00
1703591	THg 10,000ng/mL Primary Spiking Standard	14-Dec-17 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
			1704484	Fisher Nitric Acid, Tracemetal Grade	15-Mar-19 00:00
			1704516	THg Washstation (0.5% BrCl)	24-Nov-17 00:00
			1704517	THg Dilute 1% BrCl	18-Dec-17 00:00
			1704640	Omnitrace Hydrochloric Acid	27-Jul-20 00:00
			1704956	3% SnCl2 THg reductant	29-Jan-18 00:00
			1704959	7474 Potassium Bromate/Bromide Reagent	22-Aug-17 00:00

**PREPARATION BENCH SHEET**

F708512

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/23/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-38	W-104-B_080317_SED_03-05_R2	0.55	200	-	-	-		
1708151-39	W-104-B_080317_SED_03-05_R3	0.538	200	-	-	-		
1708151-40	W-104-B_080317_SED_05-10	0.592	200	-	-	-		
1708151-41	W-104-INTB_080317_SED_03-05	0.539	200	-	-	-		
1708151-42	W-104-INTB_080317_SED_05-10	0.593	200	QC	-	-	MS/MSD	
1708151-43	W-106-A_080317_SED_03-05	0.545	200	-	-	-		
1708151-44	W-106-A_080317_SED_05-10	0.56	200	-	-	-		
1708151-44RE1	W-106-A_080317_SED_05-10	0.56	200	-	-	-	Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708151-44RE2	W-106-A_080317_SED_05-10	0.56	200	-	-	-	Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708151-45	W-107-A_080317_SED_03-05	0.569	200	-	-	-		
1708151-45RE1	W-107-A_080317_SED_03-05	0.569	200	-	-	-	Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708151-45RE2	W-107-A_080317_SED_03-05	0.569	200	-	-	-	Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708151-46	W-107-A_080317_SED_05-10	0.593	200	-	-	-		
1708151-46RE1	W-107-A_080317_SED_05-10	0.593	200	-	-	-	Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708151-46RE2	W-107-A_080317_SED_05-10	0.593	200	-	-	-	Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708151-47	W-109-A_080317_SED_03-05	0.558	200	-	-	-		
1708151-47RE1	W-109-A_080317_SED_03-05	0.558	200	-	-	-	Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708151-48	W-109-A_080317_SED_05-10_R1	0.533	200	-	-	-		
1708151-49	W-109-A_080317_SED_05-10_R2	0.517	200	-	-	-		

**PREPARATION BENCH SHEET**

F708512

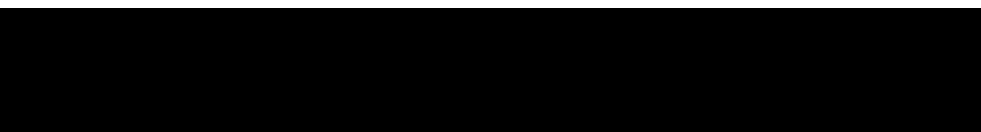
**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/23/2017**

1708151-50	W-109-A_080317_SED_05-10_R3	0.562	200	-	-	-		
1708151-51	W-110-A_080317_SED_03-05	0.54	200	-	-	-		
1708151-52	W-110-A_080317_SED_05-10	0.581	200	-	-	-		
1708151-53	W-MM-09_080317_SED_03-05	0.543	200	-	-	-		
1708151-54	W-MM-09_080317_SED_05-10	0.565	200	-	-	-		
1708151-54RE1	W-MM-09_080317_SED_05-10	0.565	200	-	-	-	Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708151-55	W-MM-10_080317_SED_03-05	0.577	200	-	-	-		
1708151-56	W-MM-10_080317_SED_05-10	0.592	200	-	-	-		
1708151-56RE1	W-MM-10_080317_SED_05-10	0.592	200	-	-	-	Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708151-57	W-MM-15_080317_SED_03-05	0.575	200	-	-	-		



PREPARATION BENCH SHEET

F708512

Eurofins Frontier Global Sciences, Inc.

2600-2  
BC 8/25/17

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/23/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708512-BLK1	Blank	0.5	200					10x
F708512-BLK2	Blank	0.5	200					10x
F708512-BS1	Blank Spike	0.5	200	1701763	40			100x
F708512-BSD1	Blank Spike	0.5	200	1701763	40			100x
F708512-MS1	Matrix Spike [1708151-42]	0.551	200	1703591	50			400x
F708512-MS2	Matrix Spike [1708151-51]	0.538	200	1703591	50			400x
F708512-MSD1	Matrix Spike Dup [1708151-42]	0.56	200	1703591	50			400x
F708512-MSD2	Matrix Spike Dup [1708151-51]	0.572	200	1703591	50			400x

Standard ID(s):  
1701763 THg 1,000ng/mL Secondary Spiking Standard  
1703591 THg 10,000ng/mL Primary Spiking Standard

Expiration:  
22-Sep-17 00:00  
14-Dec-17 00:00

Reagent ID(s):  
1704424 Boiling Chips for AFS prep  
1704484 Fisher Nitric Acid, Tracemetal Grade  
1704640 Omnitrace Hydrochloric Acid  
1704959 7474 Potassium Bromate/Bromide Reagent

Expiration:  
21-Jan-18 00:00  
15-Mar-19 00:00  
27-Jul-20 00:00  
22-Aug-17 00:00

1704516  
1704517  
1703182  
1704956

PREPARATION BENCH SHEET

BC 8/25/17

2600-2

F708512

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/23/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-38	W-104-B_080317_SED_03-05_R2	0.55	200	-	-	-		50X
1708151-39	W-104-B_080317_SED_03-05_R3	0.538	200	-	-	-		50X
1708151-40	W-104-B_080317_SED_05-10	0.592	200	-	-	-		50X
1708151-41	W-104-INTB_080317_SED_03-05	0.539	200	-	-	-		50X
1708151-42	W-104-INTB_080317_SED_05-10	0.593	200	QC	-	-	MS/MSD	50X
1708151-43	W-106-A_080317_SED_03-05	0.545	200	-	-	-		50X → 400X
1708151-44	W-106-A_080317_SED_05-10	0.56	200	-	-	-		50X → 400X → 50
1708151-45	W-107-A_080317_SED_03-05	0.569	200	-	-	-		50X → 50X → 400X → 50
1708151-46	W-107-A_080317_SED_05-10	0.593	200	-	-	-		50X → 50X → 50
1708151-47	W-109-A_080317_SED_03-05	0.558	200	-	-	-		50X → 50X
1708151-48	W-109-A_080317_SED_05-10_R1	0.533	200	-	-	-		50X
1708151-49	W-109-A_080317_SED_05-10_R2	0.517	200	-	-	-		50X
1708151-50	W-109-A_080317_SED_05-10_R3	0.562	200	-	-	-		50X
1708151-51	W-110-A_080317_SED_03-05	0.54	200	-	-	-		50X
1708151-52	W-110-A_080317_SED_05-10	0.581	200	-	-	-		50X
1708151-53	W-MM-09_080317_SED_03-05	0.543	200	-	-	-		50X
1708151-54	W-MM-09_080317_SED_05-10	0.565	200	-	-	-		50X → 10X
1708151-55	W-MM-10_080317_SED_03-05	0.577	200	-	-	-		50X
1708151-56	W-MM-10_080317_SED_05-10	0.592	200	-	-	-		50X → 10X

PREPARATION BENCH SHEET

BC 8/25/17

2600-2

F708512

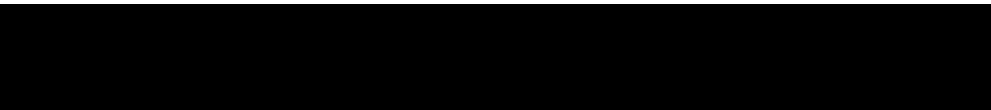
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/23/2017

1708151-57	W-MM-15_080317_SED_03-05	0.575	200	-	-	-		90X
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Technician: Dwyer Batch#: F708512 Date: 8/23/17

- EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: EPA 7474 Vial Type:  Glass  Teflon  
 Balance#: 6 Calibrated?  Yes  No Therm.#: N/A Calibrated?  Yes  No  
 \*Time in: N/A Actual Temp. (raw): N/A °C w/ CF: N/A °C  
 Time out: N/A Actual Temp. (raw): N/A °C w/ CF: N/A °C  
 \*Time in can't begin before target temperature is reached


Final vol.: 25 mL (LIMS ID: ROA70) Spike vol.: 40 µL (LIMS ID: 1701762)  
 Spike Witness: JD 8.23.17 (initial and date)

HCl LIMS ID: 1704640 Pipette SN#: 0007852 Calibration Date: 8/18/17  
 HNO<sub>3</sub> LIMS ID: 1704484 Pipette SN#: 0007693 Calibration Date: 8-21-17  
 70/30 LIMS ID: N/A Dispenser #: 09W45351 Calibrated?  Yes  No  
 Other Acid LIMS ID: 1705105 Dispenser #: 08Y2293 174 ylo  
 Glass Vial # J264743-305 Boiling Chip lot # 1704424 \*Hotblock Position: N/A

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	Vial # <u>8/23/17</u>	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	CRM LIMS ID <input checked="" type="checkbox"/> NA
1	F708512 Blk1	0.570	23 8	1708151-52	0.581	
2	F708512 Blk2	0.564	24 9	1708151-53	0.543	
3	F708512 B51	0.548	25 10	1708151-54	0.565	
4	F708512 B501	0.509	26 11	1708151-55	0.577	Comments
5	1708151-38	0.550	27 12	1708151-56	0.592	F708512
6	1708151-39	0.538	28 13	1708151-57	0.575	source
7	1708151-40	0.592	29			M51 M501
8	1708151-41	0.539	30			1708151-42
9	1708151-42	0.593	31			
10	F708512 M51	0.551	32			F708512
11	F708512 M101	0.560	33			M52 M502
12	1708151-43	0.545	34			1708151-51
13	1708151-44	0.560	35			ALL spike
14	1708151-45	0.569	36			M5 M501
15	1708151-46	0.593	37			10,000 µg/L
16	1708151-47	0.558	38			= 50 µg/L
17	1708151-48	0.533	39			1703591
18	1708151-49	0.517	40			8/23/17
19	1708151-50	0.562	41			1708151-48
20	1708151-51	0.540	42			= 0.5338
21	F708512-M52	0.538	43			8/23/17
22	F708512-M502	0.572	44			

**Failing Data Report - 7H28011**

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
1708151-44	Hg-CVAFS-S-7474	2960	56.3				ng/g						FAIL-OVER	PASS	F ✓
1708151-45	Hg-CVAFS-S-7474	2280	48.3				ng/g						FAIL-OVER	PASS	F ✓
1708151-44RE2	Hg-CVAFS-S-7474	2880	56.3				ng/g						FAIL-OVER	PASS	F ✓
1708151-45RE2	Hg-CVAFS-S-7474	2080	48.3				ng/g						FAIL-OVER	PASS	F ✓

 8/28/17  
 Analyst Reviewed By Date

 8/29/17  
 Peer Reviewed By Date



ANALYSIS SEQUENCE

QUALITY ASSURANCE

PEER-REVIEWED

7H28012



Instrument: Hg2600-2

Calibration ID: UNASSIGNED

INITIALS: *R. Stolar* Analyzed: 8/25/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H28012-IBL1 ✓	QC	1			
7H28012-IBL2 ✓	QC	2			
7H28012-IBL3 ✓	QC	3			
7H28012-CAL1 ✓	QC	4	1704505 ✓		
7H28012-CAL2 ✓	QC	5	1704506 ✓		
7H28012-CAL3 ✓	QC	6	1704507 ✓		
7H28012-CAL4 ✓	QC	7	1704508 ✓		
7H28012-CAL5 ✓	QC	8	1704509 ✓		
7H28012-ICV1 ✓	QC	9	1703679 ✓		
7H28012-CCV1 ✓	QC	10	1703679 ✓		
7H28012-CCB1 ✓	QC	11			
7H28012-CCV2 ✓	QC	12	1703679 ✓		
7H28012-CCB2 ✓	QC	13			
7H28012-CCV3 ✓	QC	14	1703679 ✓		
7H28012-CCB3 ✓	QC	15			
F708521-BLK1 ✓	QC	16			
F708521-BLK2 ✓	QC	17			
F708521-BLK3 ✓	QC	18			
F708521-BS1 ✓	QC	19			
F708521-BSD1 ✓	QC	20			
1708555-01 ✓	Hg_FSTM_TRAP_A	21			
1708555-02 ✓	Hg_FSTM_TRAP_A	22			
7H28012-CCV4 ✓	QC	23	1703679 ✓		
7H28012-CCB4 ✓	QC	24			
1708634-01 ✓	Hg_FSTM_TRAP_A	25			AFS - Take photos of trap if heavy particulate present and send to PM
1708634-02 ✓	Hg_FSTM_TRAP_A	26			AFS - Take photos of trap if heavy particulate present and send to PM
1708636-01 ✓	Hg_FSTM_TRAP_A	27			
1708636-02 ✓	Hg_FSTM_TRAP_A	28			
7H28012-CCV5 ✓	QC	29	1703679 ✓		
7H28012-CCB5 ✓	QC	30			
1708634-01RE1 ✓	Hg_FSTM_TRAP_A	31			Added 8/28/2017 by BC
1708634-02RE1 ✓	Hg_FSTM_TRAP_A	32			Added 8/28/2017 by BC
7H28012-CCV6 ✓	QC	33	1703679 ✓		
7H28012-CCB6 ✓	QC	34			
1708636-01RE1 ✓	Hg_FSTM_TRAP_A	35			Added 8/28/2017 by BC

ANALYSIS SEQUENCE

7H28012



Instrument: Hg2600-2

Calibration ID: UNASSIGNED

Analyzed: 8/25/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708636-02RE1 /	Hg_FSTM_TRAP_A	36			Added 8/28/2017 by BC
F708521-DUP1 /	QC	37			
F708521-MS1 /	QC	38			
F708521-MSD1 /	QC	39			
7H28012-CCV7 /	QC	40	1703679	-	
7H28012-CCB7 /	QC	41			

*[Signature]* 8/28/17  
Samples Loaded By Date

*[Signature]* 8/28/17  
Data Processed By Date

107226  
8/25/17

**PREPARATION BENCH SHEET**

F708521

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Air**

**Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion**

**Prepared: 8/23/2017**

Lab Number	Sample ID and Source Sample	Initial (Trap)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708521-BLK1	Blank	1	100					
F708521-BLK2	Blank	1	100					
F708521-BLK3	Blank	1	100					
F708521-BS1	LCS	1	100	1701763	200			
F708521-BSD1	LCS Dup	1	100	1701763	200			
F708521-DUP1	Duplicate [1708555-02] ✓	1	100					
F708521-MS1	Matrix Spike [1708555-02] ✓	0.0002	0.02	1704422	100 ✓			[Spk] 1Trap->100mL; 20mL->20mL; Spiked 0.02mL
F708521-MSD1	Matrix Spike Dup [1708555-02] ✓	0.0002	0.02	1704422	100			[Spk] 1Trap->100mL; 20mL->20mL; Spiked 0.02mL

Standard ID(s):

Description:

1701763 THg 1,000ng/mL Secondary Spiking Standard  
 1704422 THg 10ng/mL Calibration Standard

Expiration:

22-Sep-17 00:00  
 21-Oct-17 00:00

Reagent ID(s):

Description:

1703182 25% Hydroxylamine-HCl working solution  
 1704097 FSTM Lot 170707B  
 1704516 THg Washstation (0.5% BrCl)  
 1704517 THg Dilute 1% BrCl  
 1704956 3% SnCl2 THg reductant  
 1705022 70/30 Digestion Acid  
 1705174 5% BrCl  
 1705177 70/30 Digestion Acid

Expiration:

24-Nov-17 00:00  
 06-Jul-18 00:00  
 24-Nov-17 00:00  
 18-Dec-17 00:00  
 29-Jan-18 00:00  
 13-Feb-18 00:00  
 22-Jan-18 00:00  
 20-Feb-18 00:00

**PREPARATION BENCH SHEET**

F708521

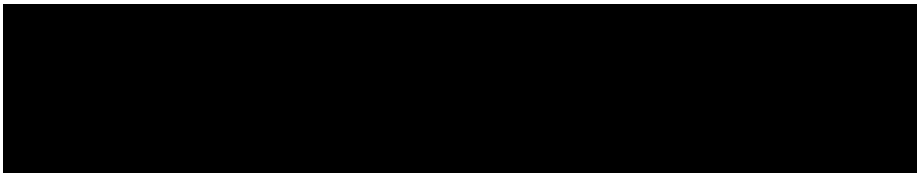
**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Air**

**Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion**

**Prepared: 8/23/2017**

Lab Number	Sample ID	Initial (Trap)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708555-01	EFGS05353 Trap A	1	100	-	-	-	2215.685 L	
1708555-02	EFGS10210 Trap B	1	100	-	-	-	2233.159 L	
1708634-01	EFGS09090 Unit 31-2 Trap A 8/13/17 - 8/14/17	1	100	-	-	-	440.676 L AFS - Take photos of trap if l	
1708634-01RE1	EFGS09090 Unit 31-2 Trap A 8/13/17 - 8/14/17	1	100	-	-	-	440.676 L Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708634-02	EFGS09493 Unit 31-2 Trap B 8/13/17 - 8/14/17	1	100	-	-	-	456.309 L AFS - Take photos of trap if l	
1708634-02RE1	EFGS09493 Unit 31-2 Trap B 8/13/17 - 8/14/17	1	100	-	-	-	456.309 L Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708636-01	EFGS09426 Trap A	1	100	-	-	-	2367.24 L	
1708636-01RE1	EFGS09426 Trap A	1	100	-	-	-	2367.24 L Added 8/28/2017 by BC	Added 8/28/2017 by BC
1708636-02	EFGS09406 Trap B	1	100	-	-	-	2367.38 L	
1708636-02RE1	EFGS09406 Trap B	1	100	-	-	-	2367.38 L Added 8/28/2017 by BC	Added 8/28/2017 by BC



PREPARATION BENCH SHEET

2600-2  
 BL 8/25/17

F708521

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/23/2017

Lab Number	Sample ID and Source Sample	Initial (Trap)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708521-BLK1	Blank	1	100					100X
F708521-BLK2	Blank	1	100					100X
F708521-BLK3	Blank	1	100					100X
F708521-BS1	LCS	1	100	1701763	200			400X
F708521-BSD1	LCS Dup	1	100	1701763	200			400X
F708521-DUP1	Duplicate 17085550	1	100					2500X
F708521-MS1	Matrix Spike 17085550	1	100	1704122	100			2500X
F708521-MSD1	Matrix Spike Dup 17085550	1	100	1704122	100			2500X

Standard ID(s): 1701763  
 Description: THg 1,000ng/mL Secondary Spiking Standard

Expiration: 22-Sep-17 00:00

Reagent ID(s): 1704097, 1705022, 1705174, 1705177  
 Description: FSTM Lot 170707B, 70/30 Digestion Acid, 5% BrCl, 70/30 Digestion Acid

Expiration: 06-Jul-18 00:00, 13-Feb-18 00:00, 22-Jan-18 00:00, 20-Feb-18 00:00

1704516  
 1704517  
 1703182  
 1704956

PREPARATION BENCH SHEET

2600-2  
BC 8/25/17

F708521

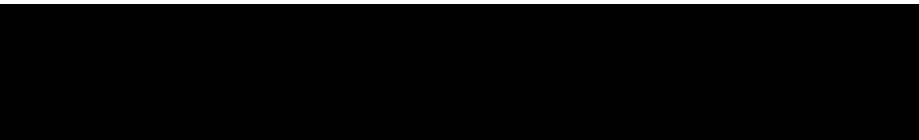
Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/23/2017

Lab Number	Sample ID	Initial (Trap)	Final (mL)	QC Sample	Sample Specs.	Raw Data	A Sample Comments	B	Analysis Comments
1708555-01	EFGS05353 Trap A	1	100	-	-	-	2215.685 L 2500x	100x	-
1708555-02	EFGS10210 Trap B	1	100	-	-	-	2233.159 L 2500x	100x	-
1708634-01	EFGS09090 Unit 31-2 Trap A 8/13/17 - 8/14/17	1	100	-	-	-	440.676 L AFS - Take photos of trap if 2500x → 400x	100x → 100x	2500x -
1708634-02	EFGS09493 Unit 31-2 Trap B 8/13/17 - 8/14/17	1	100	-	-	-	456.309 L AFS - Take photos of trap if 2500x → 400x	100x → 100x	2500x -
1708636-01	EFGS09426 Trap A	1	100	-	-	-	2367.24 L 2500x → 2500x	100x	1600x 5000x
1708636-02	EFGS09406 Trap B	1	100	-	-	-	2367.38 L 2500x → 2500x	100x	1600x 5000x



Trap Digestions

Name: CWF Date: 8/23/17 Batch ID: F708521  
 Work Order(s): \_\_\_\_\_ Analysis:  Total Hg  Other \_\_\_\_\_  
 Sample Matrix:  FSTM  KCl  PHg Plug  Other \_\_\_\_\_  
 Prep:  70/30 Digestion, 2 hr. @ ~55°C (EFAFS-T-AFS-SOP2985)  
 start time: 16:40, start temp (°C): 61.0 (raw) 60.8 (w/ CF)  
 end time: 18:40, end temp (°C): 65.0 (raw) 64.8 (w/ CF) Timer?  Yes  No  
 5% BrCl Oxidation (EFGS-031) start time: \_\_\_\_\_ (allow samples to sit for at least 4 hr before analysis)  
 Other \_\_\_\_\_

Sample ID Number	Digest vol. (mL)
F708521	BLK1 100
F708521	BLK2 100
F708521	BLK3 100
F708521	BS1 100
F708521	BSD1 100
1708555	01A 100
1708555	01B 100
1708555	02A 100
1708555	02B 100
1708634	01A 100
1708634	01B 100
1708634	01C 100
1708634	02A 100
1708634	02B 100
1708634	02C 100
1708636	01A 100
1708636	01B 100
1708636	01C 100
1708636	02A 100
1708636	02B 100
1708636	02C 100

Spike ID: 1701763  
 Spike Amount (µL): 200  
 Spike Witness: DM 8/24/17  
 BrCl ID: 1709174  
 70/30: 1705026, 1705177  
 Other: N/A  
 Thermometer: 14545  
 Dispensers: 02K27494   
 04N73497   
 Other: 15406623  
 Pipette ID: MAN619  
 Cal. Date: 8/23/17  
 Vials and Jars lot# C0068447  
 Trap Material Lot# 1704097, 170707 CWF  
 Loader Mass Verified:  Yes  No

Comments:  
 1708555 -01 and -02 both had brown particulate in front of A-bed glass wool plugs.  
 1708555 -02A spiked @ 6500ug.  
 1708634 all C-beds spiked @ 2700.  
 1708636 all C-beds spiked @ 16,000ug. CWF 8/23/17

CWF  
8/23/17





**Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)**

<b>Analyst:</b>	BC	<b>Sequence(s) #:</b>	7H28011, 7h28012
<b>Reviewer:</b>	<i>R. Zobel</i>	<b>Dataset ID(s):</b>	THg26002-170825-1
<b>Date:</b>	8/28/2017	<b>WO (s) #:</b>	VARIOUS
<b>Batch #(s):</b>	F708512, F708521		

• Select the correct preparation method.

Analyte	Prep Method	Matrix
<input checked="" type="checkbox"/> THg	EFAFS-T-AFS-SOP2985	FSTM Trap 70:30 Digest Air/Gas
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2807	Modified Cold Aqua Regia Sed/Soil
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2821	Shared Bomb- HF/HNO3/HCl Digest Sed/Soil
<input type="checkbox"/> THg	EFTM-T-TM-SOP2825	Nitric Acid Oven Bomb Sed/Soil
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2795	70:30 Digest Tissue
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2800	KCl Trap BrCl Oxidation Air/Gas
<input type="checkbox"/> THg	EFTM-T-TM-SOP2837	Shared Nitric Tissue
<input type="checkbox"/> THg	EFSR-P-SP-SOP2796	BrCl Oxidation Water
<input type="checkbox"/> Hg0	NA	NA Water
<input type="checkbox"/> Inorg Hg	NA	NA Water

**Analyst Initials:** BC      **Reviewer Initials:** RZ

- |   |   |  |                                     |
|---|---|--|-------------------------------------|
| 1. Compare SampleID with Benchsheet/Sequence/Raw Data (Have all samples been imported?)             | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| 2. Check for transcription errors from Excel spreadsheet (or Prep Benchsheet)/Raw data              | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (a) On raw data (instrument print-out), does correct file (dataset ID#) name appear in description? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| Naming convention: THg26001-yymmdd-1 or THg26002-yymmdd-1   |   |  |                                     |
| (b) Check 5% of transcription from Instrument print-out and Excel file                              | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| Compare the "Dilute" and "Peak (raw)" columns to "Dilution" and "Uncorrected Result" in Excel       |   |  |                                     |
| (c) Check standards & reagents in sequence & bench sheet for correct usage (expiries).              | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A        |
| (d) Check and compare masses (review prep benchsheet)   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A        |
| (e) Check & compare initial & final volumes   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A        |
| (f) Do aliquots and dilutions written on benchsheet match those in Excel?                           | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A        |
| 50 ml / aliquot = Excel dilution value  |   |  |                                     |
| (g) Is the sequence #, analyst, date, and instrument # on the QC page?                              | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (h) Is the analysis status correct? (analyzed/initial review/reviewed)                              | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (i) Original prep bench sheet added to data package?  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (j) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)               | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| 3. High QA?      WO#(s)/Client(s): _____  | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 4. Client specific QC? (if Yes, refer to Project Notes/LIMS)  | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO | <input type="checkbox"/>            |
| (a) Have the QC requirements been met for all WO#s?   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/>            |
| (b) Prep blanks corrections/assigned properly   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| 5a. 20 or fewer samples in batch?   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (i) 3 PBs, 1 LCS(or BS), 1 LCSD(or BSD), 1 DUP/Batch 1 MS/MSD (or AS/ASD)/10 samples?               | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (ii) 1 CCV and 1 CCB every 10 analytical runs?  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |

**Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)**

<b>Analyst:</b> BC	<b>Sequence(s) #:</b> 7H28011, 7h28012
<b>Reviewer:</b> 0 <i>A. Oja/W</i>	<b>Dataset ID(s):</b> THg26002-170825-1
<b>Date:</b> 8/28/2017	<b>WO (s) #:</b> VARIOUS
<b>Batch #(s):</b> F708512, F708521	0

**Analyst Initials** BC **Reviewer Initials** AO

- |  |  |  |   |                                     |
|--|--|--|---|-------------------------------------|
| 5b. Has the B/C section data been uploaded?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            | <input checked="" type="checkbox"/> |
| <b>QA/QC Data Checked</b>  |  |  |   |                                     |
| 6. RSD CF (≤ 15%)  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |  |   |                                     |
| 7. The calibration curve included a minimum of 5 Standards   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |  |   |                                     |
| 8. 1st Calibration Standard % Recoveries EPA 1631E (75-125%)   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          |   | <input checked="" type="checkbox"/> |
| 9. ICV and CCV % Recoveries EPA 1631E (77-123%)  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |  |   |                                     |
| 10. Do all calibration points pass acceptance criteria?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |  |   |                                     |
| 11. Are qualifiers consistent with the data review flowcharts?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            | <input checked="" type="checkbox"/> |
| Comments: _____  |  |  |   |                                     |
| 12. Explain any items on the failed data report from Element   |  |  |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |  |   |                                     |
| 13. Are the individual Preparation Blanks < PQL or <2.2xMDL for WI (refer to appropriate prep method PQL list) | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          |   | <input checked="" type="checkbox"/> |
| (a) If not < PQL or <2.2xMDL for WI, note which PB(s) are above control limit:                                 |  |  |   |                                     |
| (b) Is the mean PB < PQL or <2.2xMDL for WI (for appropriate qualification)?                                   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            |   | <input checked="" type="checkbox"/> |
| (c) Was a BrCI Blank analyzed for each preservation level?   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| (d) Are Preparation Blanks summarized on QC page?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            |   | <input checked="" type="checkbox"/> |
| 14. Filtration Blank Prepared (if yes, use FB qualifier)   | <input type="checkbox"/> YES             | <input checked="" type="checkbox"/> NO |   | <input checked="" type="checkbox"/> |
| (a) Filtration Blank prep date same as associated samples' prep date   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| (b) Filtration Blank absolute value < PQL or <2.2xMDL for WI   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 15. IBLs (3 minimum) individually < 0.50 ng/L, mean < 0.25 ng/L and STD of 0.10 ng/L?                          | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |  |   |                                     |
| 16. CCBs individually < 0.50 ng/L or 2.2 x MDL for WI?   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |  |   |                                     |
| 17. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done)                   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            | <input checked="" type="checkbox"/> |
| 18. Is the correct 'Source' designated for MD/MS/MSD?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            |   | <input checked="" type="checkbox"/> |
| 19. For digested preps: was there a spike witness signature & date on the prep bench sheet?                    | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            | <input checked="" type="checkbox"/> |

**Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)**

<b>Analyst:</b>	BC	<b>Sequence(s) #:</b>	7H28011, 7h28012
<b>Reviewer:</b>	0 <i>A e/ra/r</i>	<b>Dataset ID(s):</b>	THg26002-170825-1
<b>Date:</b>	8/28/2017	<b>WO (s) #:</b>	VARIOUS
<b>Batch #(s):</b>	F708512, F708521		0

Analyst Initials BC                      Reviewer Initials A

- |  |  |                               |   |
|--|--|-------------------------------|---|
| 20. MS/MSD Spiked at least 1-5 X ambient or 5x MRL (whichever is higher) ?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |
| Comments: _____  |  |                               |   |
| 21. Are all samples within instrument calibration range? (or at minimum dilution size)   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL | <input checked="" type="checkbox"/>   |
| Comments: _____  |  |                               |   |
| 22. Are the samples run at the correct dilution level for the method?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |
| Comments: _____  |  |                               |   |
| 23. Dissolved < Total (if applicable)  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 24. Effluent < Influent (visually confirm if needed)   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 25. Are re-runs noted with reason?   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 26. FSTM Datasets: Check to ensure the 'Response' & 'Initial Result' columns match in both the Excel dataset & LIMS for the FSTM A (in sequence) & B/C (in batch) traps? | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| Comments: _____  |  |                               |   |
| 27. Is the B trap <5% A Traps  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| Comments: _____  |  |                               |   |
| 28. Are spiked trap recoveries 75-125% of true value?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| Comments: _____  |  |                               |   |
| 29. Have non-reportable samples been imported into LIMS and clicked to non-reportable?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| Comments: _____  |  |                               |   |
| 30. Have re-extracts been created for non-reportable samples?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| 31. Are there any HIGH QA projects within the data? If so, place data package in QA office before scanning.  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 32. Does the data set need scanning?   | <input type="checkbox"/> YES             |                               | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 33. Does the dataset have an LOQ/LOQ or DOC?   | <input type="checkbox"/> YES             |                               | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 34. Water samples: has the preservation log been included in dataset for final volume verification?  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 35. Water samples-is the final volume correct in the sequence?   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |

**Files located at: \\Cuprum\gen\_admin\Quality Assurance\Training Master\DOCs**

- |  |   |                             |                                     |
|--|---|-----------------------------|-------------------------------------|
| 36. Date of analyst IDOC/CDOC: _____ 1/11/2017 _____ IDOC/CDOC within last 12 months?          | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 37. Date of analyst's SOP reading for method: _____ 5/20/2017 _____ Current SOP revision read? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 38. Date of LOD: _____ 4/26/2017 _____ LOD within last 3 months?                               | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 39. Date of LOQ: _____ 4/26/2017 _____ LOQ within last 3 months?                               | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |

**Data can not be reported without a current IDOC/CDOC, LOD or LOQ.**

Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)

Analyst:	BC	Sequence(s) #:	7H28011, 7h28012
Reviewer:	0 <i>A E/28/17</i>	Dataset ID(s):	THg26002-170825-1
Date:	8/28/2017	WO (s) #:	VARIOUS
Batch #(s):	F708512, F708521		0

*BC*

40. Peer Reviewer's comments (use Peer Review Checklist Additional Comments form if necessary):


Additional Page (s)?  YES



Frontier Global Sciences

### MHg27001-170825-2

#### Analysis Datasheet for Methyl Mercury in Waters

Date of Analysis: August 25, 2017

Analyst: DM2

Instrument #: Hg2700-1

Units ng/L

LIMS Sequence #: 7H28015, 7H28014 of 9/8/17

#### Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	19.12 units	382.42	18.96 units	379.27	92.5 %Rec
SEQ-CAL2	1	0.20 ng/L	74.26 units	371.30	74.10 units	370.51	90.4 %Rec
SEQ-CAL3	1	1.00 ng/L	424.01 units	424.01	423.85 units	423.85	103.4 %Rec
SEQ-CAL4	1	2.00 ng/L	887.06 units	443.53	886.90 units	443.45	108.2 %Rec
SEQ-CAL5	1	4.00 ng/L	1728.47 units	432.12	1728.31 units	432.08	105.4 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

<b>Corr. Mean RF</b>	<b>Corr. St Dev RF</b>	<b>Corr. RSD CF</b>	<b>Uncorr. Mean RF</b>	<b>Eff Factor</b>
409.83	+/- 32.79	8.0% RSD	410.67	<b>0.8690</b>

#### MDN Only

SEQ-CAL1  
 SEQ-CAL2  
 SEQ-CAL3  
 SEQ-CAL4  
 SEQ-CAL5  
 SEQ-CAL6 NA  
 SEQ-CAL7 NA  
 SEQ-CAL8 NA  
 SEQ-CAL9 NA  
 SEQ-ICV/CCV  
 Acetate Buffer  
 Ethylating Agent

#### Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.16 units		0.00 ng/L	#VALUE!

#### Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	-0.001 ng/L	±0.000
BLK	2	0	0.000 ng/L	
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

QUALITY ASSURANCE  
 PEER-REVIEWED

INITIALS: R 9/2/17

Instrument		Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments	
Analyst	Type	LabNumber	Correction?							RESP						
Hq2700-1	DM2	CAL	SEQ-1BL1	1	8/25/17 8:58	25276-1.RAW	8:58	0.16				0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL1	1	8/25/17 9:09	25277-1.RAW	#####	19.12				19.0	0.046	0.046	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL2	1	8/25/17 9:19	25278-1.RAW	#####	74.26				74.1	0.181	0.181	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL3	1	8/25/17 9:30	25279-1.RAW	#####	424.01				423.9	1.034	1.034	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL4	1	8/25/17 9:40	25280-1.RAW	#####	887.06				886.9	2.164	2.164	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL5	1	8/25/17 9:51	25281-1.RAW	#####	1728.47				1728.3	4.217	4.217	ng/L	
Hq2700-1	DM2	CAL	SEQ-ICV1	1	8/25/17 10:01	25282-1.RAW	#####	182.66				182.5	0.445	0.445	ng/L	
Hq2700-1	DM2	CAL	SEQ-ICB1	1	8/25/17 10:12	25283-1.RAW	#####	1.80				1.6	0.004	0.004	ng/L	
Hq2700-1	DM2	BLK	F708475-BLK4	500	8/25/17 10:22	25284-1.RAW	#####	1.33				1.2	0.003	1.640	ng/L	
Hq2700-1	DM2	BLK	F708475-BLK5	500	8/25/17 10:33	25285-1.RAW	#####	0.00		x		-0.2	0.000	-0.221	ng/L	
Hq2700-1	DM2	BLK	F708475-BLK6	500	8/25/17 10:43	25286-1.RAW	#####	0.00		x		-0.2	0.000	-0.221	ng/L	
Hq2700-1	DM2	SAM	F708475-BS3	1000	8/25/17 10:54	25287-1.RAW	#####	562.02		x		561.9	1.578	1577.626	ng/L	
Hq2700-1	DM2	SAM	F708475-BS3	1000	8/25/17 11:04	25288-1.RAW	#####	744.58		x		744.4	2.090	2090.244	ng/L	
Hq2700-1	DM2	BLK	F708477-BLK4	500	8/25/17 11:15	25289-1.RAW	#####	2.62		x		2.5	0.007	3.457	ng/L	
Hq2700-1	DM2	BLK	F708477-BLK5	500	8/25/17 11:25	25290-1.RAW	#####	0.23		x		0.1	0.000	0.099	ng/L	
Hq2700-1	DM2	BLK	F708477-BLK6	500	8/25/17 11:36	25291-1.RAW	#####	0.00		x		-0.2	0.000	-0.221	ng/L	
Hq2700-1	DM2	SAM	F708477-BS2	1000	8/25/17 11:46	25292-1.RAW	#####	738.39		x		738.2	2.073	2072.853	ng/L	
Hq2700-1	DM2	SAM	F708477-BS2	1000	8/25/17 11:57	25293-1.RAW	#####	765.37		x		765.2	2.149	2148.620	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV1	1	8/25/17 12:07	25294-1.RAW	#####	194.86				194.7	0.475	0.475	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB1	1	8/25/17 12:18	25295-1.RAW	#####	0.75				0.6	0.001	0.001	ng/L	
Hq2700-1	DM2	SAM	F708475-BS4	1000	8/25/17 12:28	25296-1.RAW	#####	534.27		x		534.1	1.500	1499.706	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV2	1	8/25/17 12:39	25297-1.RAW	#####	167.54				167.4	0.408	0.408	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB2	1	8/25/17 12:49	25298-1.RAW	#####	0.00				-0.2	0.000	0.000	ng/L	
Hq2700-1	DM2	BLK	F708517-BLK1	1.25	8/25/17 13:00	25299-1.RAW	#####	0.00		1		-0.2	0.000	-0.001	ng/L	
Hq2700-1	DM2	BLK	F708517-BLK2	1.25	8/25/17 13:11	25300-1.RAW	#####	0.00		1		-0.2	0.000	-0.001	ng/L	
Hq2700-1	DM2	BLK	F708517-BLK3	1.25	8/25/17 13:21	25301-1.RAW	#####	0.00		1		-0.2	0.000	-0.001	ng/L	
Hq2700-1	DM2	SAM	F708517-BS1	1.25	8/25/17 13:32	25302-1.RAW	#####	325.45				325.3	0.914	1.142	ng/L	
Hq2700-1	DM2	SAM	F708517-BSD1	1.25	8/25/17 13:42	25303-1.RAW	#####	330.95		1		330.8	0.929	1.162	ng/L	
Hq2700-1	DM2	SAM	F708517-DUP1	1.25	8/25/17 13:53	25304-1.RAW	#####	29.31		1		29.2	0.082	0.103	ng/L	
Hq2700-1	DM2	SAM	F708517-MS1	1.25	8/25/17 14:03	25305-1.RAW	#####	418.77		1		418.6	1.176	1.470	ng/L	
Hq2700-1	DM2	SAM	F708517-MSD1	1.25	8/25/17 14:14	25306-1.RAW	#####	409.92		1		409.8	1.151	1.439	ng/L	
Hq2700-1	DM2	SAM	F708517-MS2	1.25	8/25/17 14:24	25307-1.RAW	#####	363.04		1		362.9	1.019	1.274	ng/L	
Hq2700-1	DM2	SAM	F708517-MSD2	1.25	8/25/17 14:35	25308-1.RAW	#####	370.09		1		369.9	1.039	1.299	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV3	1	8/25/17 14:45	25309-1.RAW	#####	198.18				198.0	0.483	0.483	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB3	1	8/25/17 14:56	25310-1.RAW	#####	0.00				-0.2	0.000	0.000	ng/L	
Hq2700-1	DM2	SAM	1708269-05	1.25	8/25/17 15:06	25311-1.RAW	#####	30.87		1		30.7	0.087	0.108	ng/L	
Hq2700-1	DM2	SAM	1708269-06	1.25	8/25/17 15:17	25312-1.RAW	#####	38.08		1		37.9	0.107	0.134	ng/L	
Hq2700-1	DM2	SAM	1708440-01	1.25	8/25/17 15:27	25313-1.RAW	#####	38.60		1		38.4	0.108	0.135	ng/L	
Hq2700-1	DM2	SAM	1708440-02	1.25	8/25/17 15:38	25314-1.RAW	#####	36.34		1		36.2	0.102	0.128	ng/L	
Hq2700-1	DM2	SAM	1708440-03	1.25	8/25/17 15:48	25315-1.RAW	#####	22.97		1		22.8	0.065	0.081	ng/L	
Hq2700-1	DM2	SAM	1708440-04	1.25	8/25/17 15:59	25316-1.RAW	#####	28.57		1		28.4	0.080	0.100	ng/L	
Hq2700-1	DM2	SAM	1708440-05	1.25	8/25/17 16:09	25317-1.RAW	#####	29.25		1		29.1	0.082	0.103	ng/L	
Hq2700-1	DM2	SAM	1708440-06	1.25	8/25/17 16:20	25318-1.RAW	#####	38.18		1		38.0	0.107	0.134	ng/L	
Hq2700-1	DM2	SAM	1708443-02	1.25	8/25/17 16:30	25319-1.RAW	#####	44.62		1		44.5	0.125	0.157	ng/L	
Hq2700-1	DM2	SAM	1708443-04	1.25	8/25/17 16:41	25320-1.RAW	#####	3.71		1		3.6	0.010	0.013	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV4	1	8/25/17 16:51	25321-1.RAW	#####	199.91				199.8	0.487	0.487	ng/L	

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber							Correction?	RESP				
Hq2700-1	DM2	CAL	SEQ-CCB4	1	8/25/17 17:02	25322-1.RAW	#####	0.00				0.000	0.000	ng/L	
Hq2700-1	DM2	SAM	1708443-06	1.25	8/25/17 17:12	25323-1.RAW	#####	30.66	1		-0.2	0.086	0.108	ng/L	
Hq2700-1	DM2	SAM	1708443-08	1.25	8/25/17 17:23	25324-1.RAW	#####	15.59	1		30.5	0.044	0.055	ng/L	
Hq2700-1	DM2	SAM	1708443-10	1.25	8/25/17 17:33	25325-1.RAW	#####	25.26	1		15.4	0.071	0.089	ng/L	
Hq2700-1	DM2	SAM	1708443-12	1.25	8/25/17 17:44	25326-1.RAW	#####	11.78	1		25.1	0.033	0.041	ng/L	
Hq2700-1	DM2	SAM	1708443-14	1.25	8/25/17 17:54	25327-1.RAW	#####	16.66	1		11.6	0.047	0.058	ng/L	
Hq2700-1	DM2	SAM	1708443-16	1.25	8/25/17 18:05	25328-1.RAW	#####	6.55	1		16.5	0.018	0.023	ng/L	
Hq2700-1	DM2	SAM	1708443-18	1.25	8/25/17 18:15	25329-1.RAW	#####	21.36	1		6.4	0.060	0.075	ng/L	
Hq2700-1	DM2	SAM	1708443-20	1.25	8/25/17 18:26	25330-1.RAW	#####	7.30	1		21.2	0.020	0.026	ng/L	
Hq2700-1	DM2	SAM	1708443-31	1.25	8/25/17 18:36	25331-1.RAW	#####	2.50	1		7.1	0.007	0.009	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV5	1	8/25/17 18:47	25332-1.RAW	#####	207.50			2.3	0.506	0.506	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB5	1	8/25/17 18:57	25333-1.RAW	#####	0.00			-0.2	0.000	0.000	ng/L	

## ANALYSIS SEQUENCE

7H28015

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/25/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H28015-IBL1 ✓	QC	1			
7H28015-CAL1 ✓	QC	2	1704180	✓	
7H28015-CAL2 ✓	QC	3	1704181	✓	
7H28015-CAL3 ✓	QC	4	1704182	✓	
7H28015-CAL4 ✓	QC	5	1704183	✓	
7H28015-CAL5 ✓	QC	6	1704184	✓	
7H28015-ICV1 ✓	QC	7	1705084	✓	
7H28015-ICB1 ✓	QC	8			
7H28015-CCV1 ✓	QC	9	1705084	✓	
7H28015-CCB1 ✓	QC	10			
7H28015-CCV2 ✓	QC	11	1705084	✓	
7H28015-CCB2 ✓	QC	12			
F708517-BLK1 ✓	QC	13			
F708517-BLK2 ✓	QC	14			
F708517-BLK3 ✓	QC	15			
F708517-BS1 ✓	QC	16			
F708517-BSD1 ✓	QC	17			
F708517-DUP1 ✓	QC	18			
F708517-MS1 ✓	QC	19			
F708517-MSD1 ✓	QC	20			
F708517-MS2 ✓	QC	21			
F708517-MSD2 ✓	QC	22			
7H28015-CCV3 ✓	QC	23	1705084		
7H28015-CCB3 ✓	QC	24			
1708269-05 ✓	MHg-CVAFS-W-Dist	25			Scan all data for level IV report
1708269-06 ✓	MHg-CVAFS-W-Dist	26			Scan all data for level IV report
1708440-01 ✓	MHg-CVAFS-W-Dist	27			Scan all data for level IV report
1708440-02 ✓	MHg-CVAFS-W-Dist	28			Scan all data for level IV report
1708440-03 ✓	MHg-CVAFS-W-Dist	29			Scan all data for level IV report
1708440-04 ✓	MHg-CVAFS-W-Dist	30			Scan all data for level IV report
1708440-05 ✓	MHg-CVAFS-W-Dist	31			Scan all data for level IV report
1708440-06 ✓	MHg-CVAFS-W-Dist	32			Scan all data for level IV report
1708443-02 ✓	MHg-CVAFS-W-Dist	33			
1708443-04 ✓	MHg-CVAFS-W-Dist	34			
7H28015-CCV4 ✓	QC	35	1705084	✓	

Due Date: 9/7/2017

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Page 1 of 2



**ANALYSIS SEQUENCE**

**7H28015**

**Instrument: Hg2700-1**

**Calibration ID: UNASSIGNED**

**Analyzed: 8/25/2017**

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H28015-CCB4 ✓	QC	36			
1708443-06 ✓	MHg-CVAFS-W-Dist	37			
1708443-08 ✓	MHg-CVAFS-W-Dist	38			
1708443-10 ✓	MHg-CVAFS-W-Dist	39			
1708443-12 ✓	MHg-CVAFS-W-Dist	40			
1708443-14 ✓	MHg-CVAFS-W-Dist	41			
1708443-16 ✓	MHg-CVAFS-W-Dist	42			
1708443-18 ✓	MHg-CVAFS-W-Dist	43			
1708443-20 ✓	MHg-CVAFS-W-Dist	44			
1708443-31 ✓	MHg-CVAFS-W-Dist	45			
7H28015-CCV5 ✓	QC	46	1705084		
7H28015-CCB5 ✓	QC	47			

DM Moore      8/25/17  
 Samples Loaded By      Date

DM Moore      8/28/17  
 Data Processed By      Date

**Failing Data Report - 7H28015**

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
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Don Matam      8/28/17  
Analyst Reviewed By      Date

RLM      9/4/17  
Peer Reviewed By      Date

**PREPARATION BENCH SHEET**

F708517

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Water**

**Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water**

**Prepared: 8/24/2017**

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708517-BLK1	Blank	45	40					
F708517-BLK2	Blank	45	40					
F708517-BLK3	Blank	45	40					
F708517-BS1	Blank Spike	45	40	1704143	45			
F708517-BSD1	Blank Spike	45	40	1704143	45			
F708517-DUP1	Duplicate [1708269-05]	45	40					
F708517-MS1	Matrix Spike [1708440-01]	45	40	1704143	45			
F708517-MS2	Matrix Spike [1708443-06]	45	40	1704143	45			
F708517-MSD1	Matrix Spike Dup [1708440-01]	45	40	1704143	45			
F708517-MSD2	Matrix Spike Dup [1708443-06]	45	40	1704143	45			

Standard ID(s): 1704143  
Description: MHg New Primary 1.0 ng/mL CAL

Expiration: 10-Oct-17 00:00

Reagent ID(s): 1704399  
 1704707  
 1705175  
 1705176  
 1705178

Description:  
 Ethylating Agent (For Methyl Mercury Analysis)  
 Acetate Buffer  
 APDC  
 0.4% HCl Distillation Dilute (Made Daily)  
 2.5% Ascorbic Acid

Expiration:  
 16-Jan-18 00:00  
 29-Jan-18 00:00  
 31-Aug-17 00:00  
 25-Aug-17 00:00  
 01-Sep-17 00:00

**PREPARATION BENCH SHEET**

F708517

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Water**

**Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water**

**Prepared: 8/24/2017**

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708269-05	OL-2642-05	45	40	-	-	-	Preservation Blank Created Scan all dat	
1708269-06	OL-2642-06	45	40	-	-	-	Preservation Blank Created Scan all dat	
1708440-01	OL-2646-01	45	40	-	-	-	Scan all data for level IV report	
1708440-02	OL-2646-02	45	40	-	-	-	Scan all data for level IV report	
1708440-03	OL-2646-03	45	40	-	-	-	Scan all data for level IV report	
1708440-04	OL-2646-04	45	40	-	-	-	Scan all data for level IV report	
1708440-05	OL-2646-05	45	40	-	-	-	Scan all data for level IV report	
1708440-06	OL-2646-06	45	40	-	-	-	Scan all data for level IV report	
1708443-02	39137.2	45	40	-	-	-	Analyze Sample 1708443-22 if MHg is	
1708443-04	39137.4	45	40	-	-	-		
1708443-06	39137.6	45	40	-	-	-	Analyze Sample 1708443-24 if MHg is	
1708443-08	39137.8	45	40	-	-	-		
1708443-10	39137.10	45	40	-	-	-	Analyze Sample 1708443-26 if MHg is	
1708443-12	39137.12	45	40	-	-	-		
1708443-14	39137.14	45	40	-	-	-	Analyze Sample 1708443-28 if MHg is	
1708443-16	39137.16	45	40	-	-	-		
1708443-18	39137.18	45	40	-	-	-	Analyze Sample 1708443-30 if MHg is	
1708443-20	39137.20	45	40	-	-	-		
1708443-31	Laboratory Filter Blank	45	40	-	-	-		

**PREPARATION BENCH SHEET**

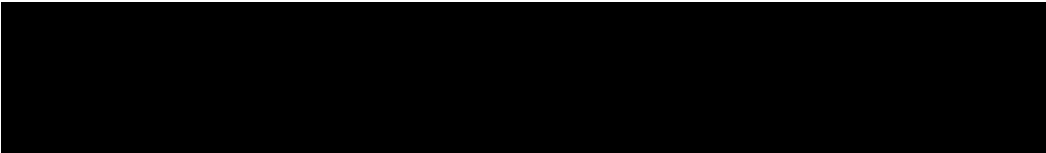
**F708517**

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Water**

**Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water**

**Prepared: 8/24/2017**



PREPARATION BENCH SHEET

2700-1  
5/25/17 DM

F708517

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/24/2017

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708517-BLK1	Blank	45	40					1.25X
F708517-BLK2	Blank	45	40					1.25X
F708517-BLK3	Blank	45	40					1.25X
F708517-BS1	Blank Spike	45	40	1704143	45			1.25X
F708517-BSD1	Blank Spike	45	40	1704143	45			1.25X
F708517-DUP1	Duplicate [1708269-05]	45	40					1.25X
F708517-MS1	Matrix Spike [1708440-01]	45	40	1704143	45			1.25X
F708517-MS2	Matrix Spike [1708443-06]	45	40	1704143	45			1.25X
F708517-MSD1	Matrix Spike Dup [1708440-01]	45	40	1704143	45			1.05X
F708517-MSD2	Matrix Spike Dup [1708443-06]	45	40	1704143	45			1.25X

Standard ID(s): 1704143  
Description: MHg New Primary 1.0 ng/mL CAL

Expiration: 10-Oct-17 00:00

Reagent ID(s): 1705175, 1705176  
Description: APDC, 0.4% HCl Distillation Dilute (Made Daily)

Expiration: 31-Aug-17 00:00, 25-Aug-17 00:00

1705175  
1704399  
1704707

PREPARATION BENCH SHEET

2700-1  
8/25/17 DM

F708517

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 8/24/2017

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708269-05	OL-2642-05	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X
1708269-06	OL-2642-06	45	40	-	-	-	Preservation Blank Created Scan all dat	1.25X
1708440-01	OL-2646-01	45	40	-	-	-	Scan all data for level IV report	1.25X
1708440-02	OL-2646-02	45	40	-	-	-	Scan all data for level IV report	1.25X
1708440-03	OL-2646-03	45	40	-	-	-	Scan all data for level IV report	1.25X
1708440-04	OL-2646-04	45	40	-	-	-	Scan all data for level IV report	1.25X
1708440-05	OL-2646-05	45	40	-	-	-	Scan all data for level IV report	1.25X
1708440-06	OL-2646-06	45	40	-	-	-	Scan all data for level IV report	1.25X
1708443-02	39137.2	45	40	-	-	-	Analyze Sample 1708443-22 if MHg is	1.25X
1708443-04	39137.4	45	40	-	-	-		1.25X
1708443-06	39137.6	45	40	-	-	-	Analyze Sample 1708443-24 if MHg is	1.25X
1708443-08	39137.8	45	40	-	-	-		1.25X
1708443-10	39137.10	45	40	-	-	-	Analyze Sample 1708443-26 if MHg is	1.25X
1708443-12	39137.12	45	40	-	-	-		1.25X
1708443-14	39137.14	45	40	-	-	-	Analyze Sample 1708443-28 if MHg is	1.25X
1708443-16	39137.16	45	40	-	-	-		1.25X
1708443-18	39137.18	45	40	-	-	-	Analyze Sample 1708443-30 if MHg is	1.25X
1708443-20	39137.20	45	40	-	-	-		1.25X
1708443-31	Laboratory Filter Blank	45	40	-	-	-		1.25X

**PREPARATION BENCH SHEET**

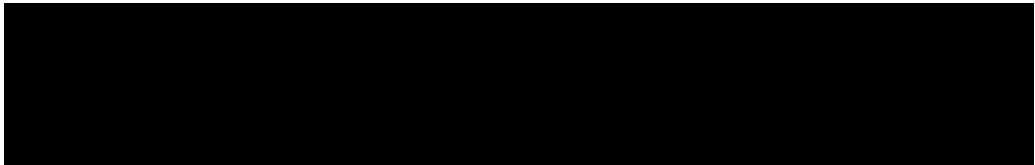
F708517

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Water**

**Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water**

**Prepared: 8/24/2017**





Methyl Mercury Distillations (EPA 1630)

Name: Duyen Date: 8-24-17 Batch #: F708517 Sample Matrix: Water  
 WO#: 17082699 1708440, 1708443

The pH of the preserved sample must be documented before an aliquot is removed for preparation.

Digest #	Sample ID Number	Preserved pH	Sample Size (mL)	Final pH (≥3)	Time first sample distillation completed: <u>1:35 P.M. 8/24/17</u>
Blk1	F708517 Blk1	1.0	45	3.0	Spike ID: <u>1704143</u> Spike Amount: <u>45</u> µL Spike Witness: <u>SM 8/24/17</u> Balance #: <u>2</u> Calibrated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Pipette #: <u>CJ17087</u> Cal. Date: <u>8/24/17</u> Pipette #: <u>NW09643</u> Cal. Date: <u>8/24/17</u> Pipette #: <u>NW01152</u> Cal. Date: <u>8/22/17</u> APDC ID: <u>1705175</u> HCl ID: <u>1705176</u> Temperature: No set range as the temp. may be changed to keep flow rate of ≥10 mL per hour. Temperature is recorded for informational purposes only. Unit 1: <u>120.5</u> Unit 2: <u>122.0</u> Unit 3: <u>120.3</u> Unit 4: <u>122.2</u> <sup>8/24/17</sup> Unit 5: <u>122.0</u> Unit 6: <u>122.0</u> Comments: F708517 source dup1 1708269-05 F708517 MS1, MS1 1708440-01 F708517 MS2, MS2 1708443-06A 8/24/17 <sup>MS</sup>
Blk2	F708517 Blk2	1.0	45	3.0	
Blk3	F708517 Blk3	1.0	45	3.0	
BS1	F708517 BS1	1.0	45	3.0	
BS01	F708517 BS01	1.0	45	3.0	
Dup1	F708517 Dup1	1.0	45	3.0	
MS1	F708517 MS1	1.0	45	4.0	
MS01	F708517 MS01	1.0	45	4.0	
MS2	F708517 MS2	1.0	45	4.0	
MS02	F708517 MS02	1.0	45	4.0	
1	1708269-05 B	1.0	45	4.0	
2	1708269-06 B	1.0	45	4.0	
3	1708440-01 B	1.0	45	4.0	
4	1708440-02 B	1.0	45	3.0	
5	1708440-03 B	1.0	45	4.0	
6	1708440-04 B	1.0	45	3.0	
7	1708440-05 B	1.0	45	3.0	
8	1708440-06 B	1.0	45	3.0	
9	1708443-02 A	1.0	45	3.0	
10	1708443-04 B	1.0	45	3.0	
11	1708443-06 A <sup>skipped</sup>	1.0	45	4.0	
12	1708443-08 B	1.0	45	4.0	
13	1708443-10 A	1.0	45	4.0	
14	1708443-12 B	1.0	45	3.0	
15	1708443-14 A	1.0	45	-	
16	1708443-16 B	1.0	45	-	
17	1708443-18 A	1.0	45	-	
18	1708443-20 B	1.0	45	-	
19	1708443-21 B	1.0	45	-	



Frontier Global Sciences

MHg27001-170825-1

Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: August 25, 2017

Instrument #: Hg2700-1

LIMS Sequence #: 7H28014

Analyst: DM2

Units ng/L

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	19.12 units	382.42	18.96 units	379.27	92.5 %Rec
SEQ-CAL2	1	0.20 ng/L	74.26 units	371.30	74.10 units	370.51	90.4 %Rec
SEQ-CAL3	1	1.00 ng/L	424.01 units	424.01	423.85 units	423.85	103.4 %Rec
SEQ-CAL4	1	2.00 ng/L	887.06 units	443.53	886.90 units	443.45	108.2 %Rec
SEQ-CAL5	1	4.00 ng/L	1728.47 units	432.12	1728.31 units	432.08	105.4 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF    Corr. St Dev RF    Corr. RSD CF    Uncorr. Mean RF  
 409.83            +/- 32.79            8.0% RSD            410.67

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.16 units		0.00 ng/L	#VALUE!

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.347 ng/L	±0.934
BLK	2	3	0.966 ng/L	±1.771
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

QUALITY ASSURANCE  
PEER-REVIEWED

INITIALS:           R 9/4/17

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber							Correction?	RESP				
Hg2700-1	DM2	CAL	SEQ-IBL1	1	8/25/17 8:58	25276-1.RAW	8:58:43	0.16			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL1	1	8/25/17 9:09	25277-1.RAW	9:09:14	19.12			19.0	0.046	0.046	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL2	1	8/25/17 9:19	25278-1.RAW	9:19:44	74.26			74.1	0.181	0.181	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL3	1	8/25/17 9:30	25279-1.RAW	9:30:15	424.01			423.9	1.034	1.034	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL4	1	8/25/17 9:40	25280-1.RAW	9:40:46	887.06			886.9	2.164	2.164	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL5	1	8/25/17 9:51	25281-1.RAW	9:51:16	1728.47			1728.3	4.217	4.217	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICV1	1	8/25/17 10:01	25282-1.RAW	10:01:47	182.66			182.5	0.445	0.445	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICB1	1	8/25/17 10:12	25283-1.RAW	10:12:18	1.80			1.6	0.004	0.004	ng/L	
Hg2700-1	DM2	BLK	F708475-BLK4	500	8/25/17 10:22	25284-1.RAW	10:22:48	1.33	1		1.2	0.003	1.425	ng/L	
Hg2700-1	DM2	BLK	F708475-BLK5	500	8/25/17 10:33	25285-1.RAW	10:33:19	0.00	1		-0.2	0.000	-0.192	ng/L	F708475 not updated Radjet
Hg2700-1	DM2	BLK	F708475-BLK6	500	8/25/17 10:43	25286-1.RAW	10:43:50	0.00	1		-0.2	0.000	-0.192	ng/L	8/14/17
Hg2700-1	DM2	SAM	F708475-BS3	1000	8/25/17 10:54	25287-1.RAW	10:54:20	562.02	1		561.9	1.371	1370.610	ng/L	
Hg2700-1	DM2	SAM	F708475-BSD3	1000	8/25/17 11:04	25288-1.RAW	11:04:51	744.58	1		744.4	1.816	1816.075	ng/L	
Hg2700-1	DM2	BLK	F708477-BLK4	500	8/25/17 11:15	25289-1.RAW	11:15:22	2.62	2		2.5	0.006	3.004	ng/L	
Hg2700-1	DM2	BLK	F708477-BLK5	500	8/25/17 11:25	25290-1.RAW	11:25:52	0.23	2		0.1	0.000	0.086	ng/L	
Hg2700-1	DM2	BLK	F708477-BLK6	500	8/25/17 11:36	25291-1.RAW	11:36:23	0.00	2		-0.2	0.000	-0.192	ng/L	
Hg2700-1	DM2	SAM	F708477-BS2	1000	8/25/17 11:46	25292-1.RAW	11:46:54	738.39	2		738.2	1.800	1800.343	ng/L	
Hg2700-1	DM2	SAM	F708477-BSD2	1000	8/25/17 11:57	25293-1.RAW	11:57:24	765.37	2		765.2	1.866	1866.185	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV1	1	8/25/17 12:07	25294-1.RAW	12:07:55	194.86			194.7	0.475	0.475	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB1	1	8/25/17 12:18	25295-1.RAW	12:18:26	0.75			0.6	0.001	0.001	ng/L	
Hg2700-1	DM2	SAM	F708475-BS4	1000	8/25/17 12:28	25296-1.RAW	12:28:56	534.27	1		534.1	1.303	1302.897	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV2	1	8/25/17 12:39	25297-1.RAW	12:39:27	167.54			167.4	0.408	0.408	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB2	1	8/25/17 12:49	25298-1.RAW	12:49:58	0.00			-0.2	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708517-BLK1	1.25	8/25/17 13:00	25299-1.RAW	13:00:30	0.00	X		-0.2	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708517-BLK2	1.25	8/25/17 13:11	25300-1.RAW	13:11:00	0.00	X		-0.2	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708517-BLK3	1.25	8/25/17 13:21	25301-1.RAW	13:21:31	0.00	X		-0.2	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	F708517-BS1	1.25	8/25/17 13:32	25302-1.RAW	13:32:02	325.45	X		325.3	0.794	0.992	ng/L	
Hg2700-1	DM2	SAM	F708517-BSD1	1.25	8/25/17 13:42	25303-1.RAW	13:42:33	330.95	X		330.8	0.807	1.009	ng/L	
Hg2700-1	DM2	SAM	F708517-DUP1	1.25	8/25/17 13:53	25304-1.RAW	13:53:03	29.31	X		29.2	0.071	0.089	ng/L	
Hg2700-1	DM2	SAM	F708517-MS1	1.25	8/25/17 14:03	25305-1.RAW	14:03:34	418.77	X		418.6	1.021	1.277	ng/L	
Hg2700-1	DM2	SAM	F708517-MSD1	1.25	8/25/17 14:14	25306-1.RAW	14:14:05	409.92	X		409.8	1.000	1.250	ng/L	
Hg2700-1	DM2	SAM	F708517-MS2	1.25	8/25/17 14:24	25307-1.RAW	14:24:36	363.04	X		362.9	0.885	1.107	ng/L	
Hg2700-1	DM2	SAM	F708517-MSD2	1.25	8/25/17 14:35	25308-1.RAW	14:35:06	370.09	X		369.9	0.903	1.128	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV3	1	8/25/17 14:45	25309-1.RAW	14:45:37	198.18			198.0	0.483	0.483	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB3	1	8/25/17 14:56	25310-1.RAW	14:56:08	0.00			-0.2	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708269-05	1.25	8/25/17 15:06	25311-1.RAW	15:06:39	30.87	X		30.7	0.075	0.094	ng/L	
Hg2700-1	DM2	SAM	1708269-06	1.25	8/25/17 15:17	25312-1.RAW	15:17:09	38.08	X		37.9	0.093	0.116	ng/L	
Hg2700-1	DM2	SAM	1708440-01	1.25	8/25/17 15:27	25313-1.RAW	15:27:40	38.60	X		38.4	0.094	0.117	ng/L	
Hg2700-1	DM2	SAM	1708440-02	1.25	8/25/17 15:38	25314-1.RAW	15:38:11	36.34	X		36.2	0.088	0.110	ng/L	
Hg2700-1	DM2	SAM	1708440-03	1.25	8/25/17 15:48	25315-1.RAW	15:48:42	22.97	X		22.8	0.056	0.070	ng/L	
Hg2700-1	DM2	SAM	1708440-04	1.25	8/25/17 15:59	25316-1.RAW	15:59:12	28.57	X		28.4	0.069	0.087	ng/L	
Hg2700-1	DM2	SAM	1708440-05	1.25	8/25/17 16:09	25317-1.RAW	16:09:43	29.25	X		29.1	0.071	0.089	ng/L	
Hg2700-1	DM2	SAM	1708440-06	1.25	8/25/17 16:20	25318-1.RAW	16:20:14	38.18	X		38.0	0.093	0.116	ng/L	
Hg2700-1	DM2	SAM	1708443-02	1.25	8/25/17 16:30	25319-1.RAW	16:30:44	44.62	X		44.5	0.108	0.136	ng/L	
Hg2700-1	DM2	SAM	1708443-04	1.25	8/25/17 16:41	25320-1.RAW	16:41:15	3.71	X		3.6	0.009	0.011	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV4	1	8/25/17 16:51	25321-1.RAW	16:51:46	199.91			199.8	0.487	0.487	ng/L	

Sample				Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments
Instrument	Analyst	Type	LabNumber							Correction?	RESP				
Hg2700-1	DM2	CAL	SEQ-CCB4	1	8/25/17 17:02	25322-1.RAW	17:02:17	0.00			-0.2	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708443-06	1.25	8/25/17 17:12	25323-1.RAW	17:12:47	30.66		X	30.5	0.074	0.093	ng/L	
Hg2700-1	DM2	SAM	1708443-08	1.25	8/25/17 17:23	25324-1.RAW	17:23:18	15.59		X	15.4	0.038	0.047	ng/L	
Hg2700-1	DM2	SAM	1708443-10	1.25	8/25/17 17:33	25325-1.RAW	17:33:49	25.26		X	25.1	0.061	0.077	ng/L	
Hg2700-1	DM2	SAM	1708443-12	1.25	8/25/17 17:44	25326-1.RAW	17:44:20	11.78		X	11.6	0.028	0.035	ng/L	
Hg2700-1	DM2	SAM	1708443-14	1.25	8/25/17 17:54	25327-1.RAW	17:54:50	16.66		X	16.5	0.040	0.050	ng/L	
Hg2700-1	DM2	SAM	1708443-16	1.25	8/25/17 18:05	25328-1.RAW	18:05:21	6.55		X	6.4	0.016	0.020	ng/L	
Hg2700-1	DM2	SAM	1708443-18	1.25	8/25/17 18:15	25329-1.RAW	18:15:52	21.36		x	21.2	0.052	0.065	ng/L	
Hg2700-1	DM2	SAM	1708443-20	1.25	8/25/17 18:26	25330-1.RAW	18:26:23	7.30		x	7.1	0.017	0.022	ng/L	
Hg2700-1	DM2	SAM	1708443-31	1.25	8/25/17 18:36	25331-1.RAW	18:36:53	2.50		x	2.3	0.006	0.007	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV5	1	8/25/17 18:47	25332-1.RAW	18:47:24	207.50			207.3	0.506	0.506	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB5	1	8/25/17 18:57	25333-1.RAW	18:57:55	0.00			-0.2	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	F708477-DUP2	500	8/25/17 19:08	25334-1.RAW	19:08:26	67.25	2		67.1	0.162	80.888	ng/L	
Hg2700-1	DM2	SAM	F708477-MS3	500	8/25/17 19:18	25335-1.RAW	19:18:56	480.57	2		480.4	1.170	585.143	ng/L	
Hg2700-1	DM2	SAM	F708477-MSD3	500	8/25/17 19:29	25336-1.RAW	19:29:27	529.93	2		529.8	1.291	645.368	ng/L	
Hg2700-1	DM2	SAM	F708477-MS4	500	8/25/17 19:39	25337-1.RAW	19:39:58	421.01	2		420.9	1.025	512.482	ng/L	
Hg2700-1	DM2	SAM	F708477-MSD4	500	8/25/17 19:50	25338-1.RAW	19:50:29	345.84	2		345.7	0.842	420.769	ng/L	
Hg2700-1	DM2	SAM	1708151-24RE1	500	8/25/17 20:00	25339-1.RAW	20:00:59	29.93	2		29.8	0.071	35.353	ng/L	
Hg2700-1	DM2	SAM	1708151-25RE1	500	8/25/17 20:11	25340-1.RAW	20:11:30	72.51	2		72.4	0.175	87.308	ng/L	
Hg2700-1	DM2	SAM	1708151-26RE1	500	8/25/17 20:22	25341-1.RAW	20:22:01	26.16	2		26.0	0.062	30.760	ng/L	
Hg2700-1	DM2	SAM	1708151-27RE1	500	8/25/17 20:32	25342-1.RAW	20:32:31	21.65	2		21.5	0.050	25.249	ng/L	
Hg2700-1	DM2	SAM	1708151-28RE1	500	8/25/17 20:43	25343-1.RAW	20:43:02	5.97	2		5.8	0.012	6.128	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV6	1	8/25/17 20:53	25344-1.RAW	20:53:33	256.62			256.5	0.626	0.626	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB6	1	8/25/17 21:04	25345-1.RAW	21:04:04	0.00			-0.2	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708151-29RE1	500	8/25/17 21:14	25346-1.RAW	21:14:34	32.61	2		32.5	0.077	38.631	ng/L	
Hg2700-1	DM2	SAM	1708151-30RE1	500	8/25/17 21:25	25347-1.RAW	21:25:05	28.36	2		28.2	0.067	33.445	ng/L	
Hg2700-1	DM2	SAM	1708151-31RE1	500	8/25/17 21:35	25348-1.RAW	21:35:36	26.30	2		26.1	0.062	30.926	ng/L	
Hg2700-1	DM2	SAM	1708151-32RE1	500	8/25/17 21:46	25349-1.RAW	21:46:07	22.38	2		22.2	0.052	26.147	ng/L	
Hg2700-1	DM2	SAM	1708154-01RE1	500	8/25/17 21:56	25350-1.RAW	21:56:36	45.55	2		45.4	0.109	54.408	ng/L	
Hg2700-1	DM2	SAM	1708154-02RE1	500	8/25/17 22:07	25351-1.RAW	22:07:06	72.41	2		72.3	0.174	87.187	ng/L	
Hg2700-1	DM2	SAM	1708154-03RE1	500	8/25/17 22:17	25352-1.RAW	22:17:37	63.20	2		63.0	0.152	75.948	ng/L	
Hg2700-1	DM2	SAM	1708154-04RE1	500	8/25/17 22:28	25353-1.RAW	22:28:08	110.83	2		110.7	0.268	134.050	ng/L	
Hg2700-1	DM2	SAM	1708154-05RE1	500	8/25/17 22:38	25354-1.RAW	22:38:38	84.83	2		84.7	0.205	102.340	ng/L	
Hg2700-1	DM2	SAM	1708154-06RE1	500	8/25/17 22:49	25355-1.RAW	22:49:09	96.86	2		96.7	0.234	117.008	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV7	1	8/25/17 22:59	25356-1.RAW	22:59:40	189.81			189.7	0.463	0.463	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB7	1	8/25/17 23:10	25357-1.RAW	23:10:10	0.00			-0.2	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708155-01RE1	500	8/25/17 23:20	25358-1.RAW	23:20:41	53.89	2		53.7	0.129	64.587	ng/L	
Hg2700-1	DM2	SAM	1708155-02RE1	500	8/25/17 23:31	25359-1.RAW	23:31:12	30.63	2		30.5	0.072	36.206	ng/L	
Hg2700-1	DM2	SAM	1708155-03RE1	500	8/25/17 23:41	25360-1.RAW	23:41:42	66.74	2		66.6	0.161	80.271	ng/L	
Hg2700-1	DM2	SAM	1708155-04RE1	500	8/25/17 23:52	25361-1.RAW	23:52:13	69.37	2		69.2	0.167	83.474	ng/L	
Hg2700-1	DM2	SAM	1708155-05RE1	500	8/25/17 0:02	25362-1.RAW	0:02:44	49.95	2		49.8	0.120	59.786	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV8	1	8/25/17 0:13	25363-1.RAW	0:13:14	201.46			201.3	0.491	0.491	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB8	1	8/25/17 0:23	25364-1.RAW	0:23:45	0.00			-0.2	0.000	0.000	ng/L	



1708154-01RE1	A10	500	0.16	4.01	55.37	645.73	25350-1.RAW	21:56:36	3.45	45.55	529.44	0.00	psample10	OK	1
1708154-02RE1	A11	500	0.16	9.83	88.15	1323.23	25351-1.RAW	22:07:06	8.21	72.41	1084.76	0.00	psample10	OK	1
1708154-03RE1	A12	500	0.16	3.53	76.91	492.21	25352-1.RAW	22:17:37	3.05	63.20	403.60	0.00	psample10	CT	1
1708154-04RE1	A13	500	0.16	7.55	135.02	1480.48	25353-1.RAW	22:28:08	6.35	110.63	1213.65	0.00	psample10	CT	1
1708154-05RE1	A14	500	0.16	9.36	103.31	1057.12	25354-1.RAW	22:38:38	7.83	84.83	866.64	0.00	psample10	OK	1
1708154-06RE1	A15	500	0.16	11.88	117.97	2254.23	25355-1.RAW	22:49:09	9.90	96.86	1847.86	0.00	psample10	OK	1
SEQ-CCV7	A16	1	0.16	0.01	0.46	0.03	25356-1.RAW	22:59:40	2.70	189.61	11.25	0.00	psample10	OK	1
SEQ-CCB7	A17	1					25357-1.RAW	23:10:10	3.61	0.00	4.71	0.00	psample10	OK	1
1708155-01RE1	A18	500	0.16	8.66	65.55	1697.78	25358-1.RAW	23:20:41	7.25	53.89	1391.77	0.00	psample10	CT	1
1708155-02RE1	A19	500	0.16	5.73	37.17	1216.05	25359-1.RAW	23:31:12	4.85	30.63	996.91	0.00	psample10	OK	1
1708155-03RE1	A20	500	0.16	9.48	81.24	1211.87	25360-1.RAW	23:41:42	7.93	66.74	993.49	0.00	psample10	OK	1
1708155-04RE1	A21	500	0.16	4.92	84.44	1940.66	25361-1.RAW	23:52:13	4.19	69.37	1590.84	0.00	psample10	OK	1
1708155-05RE1	B1	500	0.16	10.05	60.75	1944.85	25362-1.RAW	0:02:44	8.39	49.95	1594.28	0.00	psample10	CT	1
SEQ-CCV8	B2	1	0.16	0.01	0.49	0.03	25363-1.RAW	0:13:14	2.33	201.46	12.26	0.00	psample10	OK	1
SEQ-CCB8	B3	1					25364-1.RAW	0:23:45	5.01	0.00	10.82	0.00	psample10	CT	1

**ANALYSIS SEQUENCE**

**7H28014**

Instrument: Hg2700-1 ✓

Calibration ID: UNASSIGNED

Analyzed: 8/25/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H28014-IBL1 ✓	QC	1			
7H28014-CAL1 ✓	QC	2	1704180	✓	
7H28014-CAL2 ✓	QC	3	1704181	✓	
7H28014-CAL3 ✓	QC	4	1704182	✓	
7H28014-CAL4 ✓	QC	5	1704183	✓	
7H28014-CAL5 ✓	QC	6	1704184	✓	
7H28014-ICV1 ✓	QC	7	1705084	✓	
7H28014-ICB1 ✓	QC	8			
F708477-BLK4 ✓	QC	9			
F708477-BLK5 ✓	QC	10			
F708477-BLK6 ✓	QC	11			
F708477-BS2 ✓	QC	12			
F708477-BSD2 ✓	QC	13			
7H28014-CCV1 ✓	QC	14	1705084	✓	
7H28014-CCB1 ✓	QC	15			
7H28014-CCV2 ✓	QC	16	1705084	✓	
7H28014-CCB2 ✓	QC	17			
7H28014-CCV3 ✓	QC	18	1705084	✓	
7H28014-CCB3 ✓	QC	19			
7H28014-CCV4 ✓	QC	20	1705084	✓	
7H28014-CCB4 ✓	QC	21			
7H28014-CCV5 ✓	QC	22	1705084	✓	
7H28014-CCB5 ✓	QC	23			
F708477-DUP2 ✓	QC	24			
F708477-MS3 ✓	QC	25			
F708477-MSD3 ✓	QC	26			
F708477-MS4 ✓	QC	27			
F708477-MSD4 ✓	QC	28			
1708151-24RE1 ✓	MHg-CVAFS-S-KOH	29			Added 8/25/2017 by DM2
1708151-25RE1 ✓	MHg-CVAFS-S-KOH	30			Added 8/25/2017 by DM2
1708151-26RE1 ✓	MHg-CVAFS-S-KOH	31			Added 8/25/2017 by DM2
1708151-27RE1 ✓	MHg-CVAFS-S-KOH	32			Added 8/25/2017 by DM2
1708151-28RE1 ✓	MHg-CVAFS-S-KOH	33			Added 8/25/2017 by DM2
7H28014-CCV6 ✓	QC	34	1705084	✓	
7H28014-CCB6 ✓	QC	35			

**ANALYSIS SEQUENCE**

**7H28014**

**Instrument: Hg2700-1**

**Calibration ID: UNASSIGNED**

**Analyzed: 8/25/2017**

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708151-29RE1 ✓	MHg-CVAFS-S-KOH	36			Added 8/25/2017 by DM2
1708151-30RE1 ✓	MHg-CVAFS-S-KOH	37			Added 8/25/2017 by DM2
1708151-31RE1 ✓	MHg-CVAFS-S-KOH	38			Added 8/25/2017 by DM2
1708151-32RE1 ✓	MHg-CVAFS-S-KOH	39			Added 8/25/2017 by DM2
1708154-01RE1 ✓	MHg-CVAFS-S-KOH	40			Added 8/25/2017 by DM2
1708154-02RE1 ✓	MHg-CVAFS-S-KOH	41			Added 8/25/2017 by DM2
1708154-03RE1 ✓	MHg-CVAFS-S-KOH	42			Added 8/25/2017 by DM2
1708154-04RE1 ✓	MHg-CVAFS-S-KOH	43			Added 8/25/2017 by DM2
1708154-05RE1 ✓	MHg-CVAFS-S-KOH	44			Added 8/25/2017 by DM2
1708154-06RE1 ✓	MHg-CVAFS-S-KOH	45			Added 8/25/2017 by DM2
7H28014-CCV7 ✓	QC	46	1705084		
7H28014-CCB7 ✓	QC	47			
1708155-01RE1 ✓	MHg-CVAFS-S-KOH	48			Added 8/25/2017 by DM2
1708155-02RE1 ✓	MHg-CVAFS-S-KOH	49			Added 8/25/2017 by DM2
1708155-03RE1 ✓	MHg-CVAFS-S-KOH	50			Added 8/25/2017 by DM2
1708155-04RE1 ✓	MHg-CVAFS-S-KOH	51			Added 8/25/2017 by DM2
1708155-05RE1 ✓	MHg-CVAFS-S-KOH	52			Added 8/25/2017 by DM2
7H28014-CCV8 ✓	QC	53	1705084		
7H28014-CCB8 ✓	QC	54			

DM Moore      8/25/17  
 Samples Loaded By      Date

DM Moore      8/28/17  
 Data Processed By      Date



**PREPARATION BENCH SHEET**

F708477

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/18/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708477-BLK1	Blank	0.25	20					
F708477-BLK2	Blank	0.25	20					
F708477-BLK3	Blank	0.25	20					
F708477-BLK4	Blank	0.25	20					
F708477-BLK5	Blank	0.25	20					
F708477-BLK6	Blank	0.25	20					
F708477-BS1	LCS	0.1313	20	1703305	131.3			
F708477-BS2	LCS	0.1313	20	1703305	131.3			
F708477-BSD1	LCS Dup	0.1327	20	1703305	132.7			
F708477-BSD2	LCS Dup	0.1327	20	1703305	132.7			
F708477-DUP1	Duplicate [1708154-02]	0.269	20					
F708477-DUP2	Duplicate [1708154-02RE1]	0.269	20					
F708477-MS1	Matrix Spike [1708154-02]	0.294	20	1605978	100			
F708477-MS2	Matrix Spike [1708155-05]	0.257	20	1605978	100			
F708477-MS3	Matrix Spike [1708154-02RE1]	0.294	20	1605978	100			
F708477-MS4	Matrix Spike [1708155-05RE1]	0.257	20	1605978	100			
F708477-MSD1	Matrix Spike Dup [1708154-02]	0.296	20	1605978	100			
F708477-MSD2	Matrix Spike Dup [1708155-05]	0.291	20	1605978	100			
F708477-MSD3	Matrix Spike Dup [1708154-02RE1]	0.296	20	1605978	100			
F708477-MSD4	Matrix Spike Dup [1708155-05RE1]	0.291	20	1605978	100			

**PREPARATION BENCH SHEET**

**F708477**

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/18/2017**

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1605978	MHg New Primary 100 ng/mL spike	15-Oct-17 00:00	1606119	Methanol, HPLC Grade	17-Oct-19 00:00
1703305	DORM-4	29-May-20 00:00	1704399	Ethylating Agent (For Methyl Mercury Analysis)	16-Jan-18 00:00
		29-May-20 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
			1704707	Acetate Buffer	29-Jan-18 00:00
			1705052	25% KOH/Methanol	18-Feb-18 00:00

**PREPARATION BENCH SHEET**

F708477

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion .**

**Prepared: 8/18/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-24	W-MM-10_080117_SED_01-03	0.261	20	-	-	-		
1708151-24RE1	W-MM-10_080117_SED_01-03	0.261	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708151-25	W-MM-15_080117_SED_00-01	0.29	20	-	-	-		
1708151-25RE1	W-MM-15_080117_SED_00-01	0.29	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708151-26	W-MM-15_080117_SED_01-03	0.292	20	-	-	-		
1708151-26RE1	W-MM-15_080117_SED_01-03	0.292	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708151-27	W-MM-16_080117_SED_00-01	0.285	20	-	-	-		
1708151-27RE1	W-MM-16_080117_SED_00-01	0.285	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708151-28	W-MM-16_080117_SED_01-03	0.292	20	-	-	-		
1708151-28RE1	W-MM-16_080117_SED_01-03	0.292	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708151-29	W-MM-20_080117_SED_00-01	0.269	20	-	-	-		
1708151-29RE1	W-MM-20_080117_SED_00-01	0.269	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708151-30	W-MM-20_080117_SED_01-03	0.272	20	-	-	-	Original jar broken, transferred sample	
1708151-30RE1	W-MM-20_080117_SED_01-03	0.272	20	-	-	-	Original jar broken, transferred sample	Added 8/25/2017 by DM2
1708151-31	W-MM-21_080117_SED_00-01	0.275	20	-	-	-		
1708151-31RE1	W-MM-21_080117_SED_00-01	0.275	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708151-32	W-MM-21_080117_SED_01-03	0.277	20	-	-	-		
1708151-32RE1	W-MM-21_080117_SED_01-03	0.277	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708154-01	W-21-UM-South_080117_SED_00-01	0.287	20	-	-	-		

Due Date: 9/5/2017

**PREPARATION BENCH SHEET**

F708477

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/18/2017**

1708154-01RE1	W-21-UM-South_080117_SED_00-01	0.287	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708154-02	W-21-UM-South_080117_SED_01-03	0.28	20	QC	-	-	MS/MSD	
1708154-02RE1	W-21-UM-South_080117_SED_01-03	0.28	20	QC	-	-	MS/MSD Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708154-03	W-63-Low_080117_SED_00-01_R1	0.308	20	-	-	-		
1708154-03RE1	W-63-Low_080117_SED_00-01_R1	0.308	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708154-04	W-63-Low_080117_SED_00-01_R2	0.272	20	-	-	-		
1708154-04RE1	W-63-Low_080117_SED_00-01_R2	0.272	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708154-05	W-63-Low_080117_SED_00-01_R3	0.258	20	-	-	-		
1708154-05RE1	W-63-Low_080117_SED_00-01_R3	0.258	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708154-06	W-63-Low_080117_SED_01-03	0.285	20	-	-	-	Original jar broken, transferred sample	
1708154-06RE1	W-63-Low_080117_SED_01-03	0.285	20	-	-	-	Original jar broken, transferred sample	Added 8/25/2017 by DM2
1708155-01	ES-02E_080117_SED_00-01	0.273	20	-	-	-	Original jar broken, transferred sample	
1708155-01RE1	ES-02E_080117_SED_00-01	0.273	20	-	-	-	Original jar broken, transferred sample	Added 8/25/2017 by DM2
1708155-02	ES-02E_080117_SED_01-03	0.276	20	-	-	-		
1708155-02RE1	ES-02E_080117_SED_01-03	0.276	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708155-03	OB-05_080117_SED_00-01	0.28	20	-	-	-		
1708155-03RE1	OB-05_080117_SED_00-01	0.28	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2
1708155-04	OB-05_080117_SED_01-03	0.287	20	-	-	-	Original jar broken, transferred sample	
1708155-04RE1	OB-05_080117_SED_01-03	0.287	20	-	-	-	Original jar broken, transferred sample	Added 8/25/2017 by DM2
1708155-05	OR-02-03_080117_SED_00-01	0.289	20	QC	-	-	MS/MSD	
1708155-05RE1	OR-02-03_080117_SED_00-01	0.289	20	QC	-	-	MS/MSD Added 8/25/2017 by DM2	Added 8/25/2017 by DM2

Due Date: 9/5/2017

**PREPARATION BENCH SHEET**

F708477

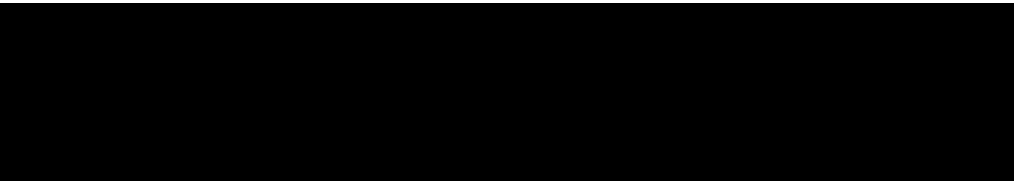
**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/18/2017**

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PREPARATION BENCH SHEET

2700-1  
8/25/17 DM

F708477

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708477-BLK1	Blank	0.25	20					
F708477-BLK2	Blank	0.25	20					
F708477-BLK3	Blank	0.25	20					
F708477-BLK4	Blank	0.25	20					500x
F708477-BLK5	Blank	0.25	20					500x
F708477-BLK6	Blank	0.25	20					500x
F708477-BS1	LCS	0.1313	20	1703305	131.3			
F708477-BS2	LCS	0.1313	20	1703305	131.3			1000x
F708477-BSD1	LCS Dup	0.1327	20	1703305	132.7			
F708477-BSD2	LCS Dup	0.1327	20	1703305	132.7			1000x
F708477-DUP1	Duplicate [1708154-02]	0.269	20					
F708477-DUP2	Duplicate [1708154-02RE1]	0.269	20					500x
F708477-MS1	Matrix Spike [1708154-02]	0.294	20	1605978	100			
F708477-MS2	Matrix Spike [1708155-05]	0.257	20	1605978	100			
F708477-MS3	Matrix Spike [1708154-02RE1]	0.294	20	1605978	100			500x
F708477-MS4	Matrix Spike [1708155-05RE1]	0.257	20	1605978	100			500x
F708477-MSD1	Matrix Spike Dup [1708154-02]	0.296	20	1605978	100			
F708477-MSD2	Matrix Spike Dup [1708155-05]	0.291	20	1605978	100			
F708477-MSD3	Matrix Spike Dup [1708154-02RE1]	0.296	20	1605978	100			500x
F708477-MSD4	Matrix Spike Dup [1708155-05RE1]	0.291	20	1605978	100			500x

PREPARATION BENCH SHEET

F708477

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1605978	MHg New Primary 100 ng/mL spike	15-Oct-17 00:00	1606119	Methanol, HPLC Grade	17-Oct-19 00:00
1703305	DORM-4	29-May-20 00:00	1704399	Ethylating Agent (For Methyl Mercury Analysis)	16-Jan-18 00:00
		29-May-20 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
			1704707	Acetate Buffer	29-Jan-18 00:00
			1705052	25% KOH/Methanol	18-Feb-18 00:00

PREPARATION BENCH SHEET

2700-1  
5/25/17 DM

F708477

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-24	W-MM-10_080117_SED_01-03	0.261	20	-	-	-		
1708151-24RE1	W-MM-10_080117_SED_01-03	0.261	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2 SDX
1708151-25	W-MM-15_080117_SED_00-01	0.29	20	-	-	-		
1708151-25RE1	W-MM-15_080117_SED_00-01	0.29	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2 SDX
1708151-26	W-MM-15_080117_SED_01-03	0.292	20	-	-	-		
1708151-26RE1	W-MM-15_080117_SED_01-03	0.292	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2 SDX
1708151-27	W-MM-16_080117_SED_00-01	0.285	20	-	-	-		
1708151-27RE1	W-MM-16_080117_SED_00-01	0.285	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2 SDX
1708151-28	W-MM-16_080117_SED_01-03	0.292	20	-	-	-		
1708151-28RE1	W-MM-16_080117_SED_01-03	0.292	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2 SDX
1708151-29	W-MM-20_080117_SED_00-01	0.269	20	-	-	-		
1708151-29RE1	W-MM-20_080117_SED_00-01	0.269	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2 SDX
1708151-30	W-MM-20_080117_SED_01-03	0.272	20	-	-	-	Original jar broken, transferred sample	
1708151-30RE1	W-MM-20_080117_SED_01-03	0.272	20	-	-	-	Original jar broken, transferred sample	Added 8/25/2017 by DM2 SDX
1708151-31	W-MM-21_080117_SED_00-01	0.275	20	-	-	-		
1708151-31RE1	W-MM-21_080117_SED_00-01	0.275	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2 SDX
1708151-32	W-MM-21_080117_SED_01-03	0.277	20	-	-	-		
1708151-32RE1	W-MM-21_080117_SED_01-03	0.277	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2 SDX
1708154-01	W-21-UM-South_080117_SED_00-01	0.287	20	-	-	-		

Due Date: 9/5/2017



PREPARATION BENCH SHEET

2700-1  
8/25/17 DM

F708477

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

1708154-01RE1	W-21-UM-South_080117_SED_00-01	0.287	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2	SOX
1708154-02	W-21-UM-South_080117_SED_01-03	0.28	20	QC	-	-	MS/MSD		
1708154-02RE1	W-21-UM-South_080117_SED_01-03	0.28	20	QC	-	-	MS/MSD Added 8/25/2017 by DM2	Added 8/25/2017 by DM2	SOX
1708154-03	W-63-Low_080117_SED_00-01_R1	0.308	20	-	-	-			
1708154-03RE1	W-63-Low_080117_SED_00-01_R1	0.308	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2	SOX
1708154-04	W-63-Low_080117_SED_00-01_R2	0.272	20	-	-	-			
1708154-04RE1	W-63-Low_080117_SED_00-01_R2	0.272	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2	SOX
1708154-05	W-63-Low_080117_SED_00-01_R3	0.258	20	-	-	-			
1708154-05RE1	W-63-Low_080117_SED_00-01_R3	0.258	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2	SOX
1708154-06	W-63-Low_080117_SED_01-03	0.285	20	-	-	-	Original jar broken, transferred sample		
1708154-06RE1	W-63-Low_080117_SED_01-03	0.285	20	-	-	-	Original jar broken, transferred sample	Added 8/25/2017 by DM2	SOX
1708155-01	ES-02E_080117_SED_00-01	0.273	20	-	-	-	Original jar broken, transferred sample		
1708155-01RE1	ES-02E_080117_SED_00-01	0.273	20	-	-	-	Original jar broken, transferred sample	Added 8/25/2017 by DM2	SOX
1708155-02	ES-02E_080117_SED_01-03	0.276	20	-	-	-			
1708155-02RE1	ES-02E_080117_SED_01-03	0.276	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2	SOX
1708155-03	OB-05_080117_SED_00-01	0.28	20	-	-	-			
1708155-03RE1	OB-05_080117_SED_00-01	0.28	20	-	-	-	Added 8/25/2017 by DM2	Added 8/25/2017 by DM2	SOX
1708155-04	OB-05_080117_SED_01-03	0.287	20	-	-	-	Original jar broken, transferred sample		
1708155-04RE1	OB-05_080117_SED_01-03	0.287	20	-	-	-	Original jar broken, transferred sample	Added 8/25/2017 by DM2	SOX
1708155-05	OR-02-03_080117_SED_00-01	0.289	20	QC	-	-	MS/MSD		
1708155-05RE1	OR-02-03_080117_SED_00-01	0.289	20	QC	-	-	MS/MSD Added 8/25/2017 by DM2	Added 8/25/2017 by DM2	SOX

Due Date: 9/5/2017

PREPARATION BENCH SHEET

F708477

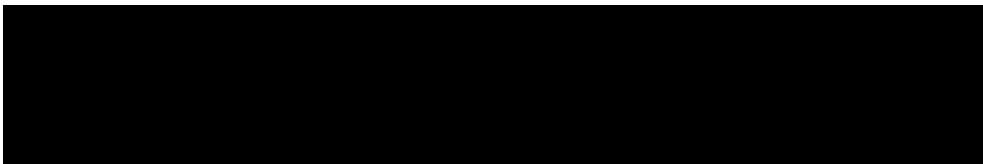
Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/18/2017

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**Failing Data Report - 7H28014**

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
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Don M. [Signature]  
Analyst Reviewed By

8/28/17  
Date

[Signature]  
Peer Reviewed By

9/4/17  
Date

**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b> DON MORAN	<b>Sequence #:</b> 7H28014, 7H28015
<b>Reviewer:</b> <i>R 9/14/17</i>	<b>Dataset ID #:</b> MMHG27001-170825-1, MMHG27001-170825-2
<b>Date:</b> 8-28-17	<b>WO #:</b> VARIOUS
<b>Batch #(s):</b> F708517, F708477	<b>Client(s):</b> VARIOUS

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input checked="" type="checkbox"/> MHg	SOP2797 MHg Distillation	Water
<input checked="" type="checkbox"/> MHg	SOP2986 KOH/MeOH Digest	Tissue
<input type="checkbox"/> MHg	SOP5134 MeCl Extraction	Sed/Soil
<input type="checkbox"/> DMHg	SOP2816 (None Accredited method)	ALL

**Analyst Initials:**

**Reviewer Initials:**

	<i>DM</i>	<i>R 9/14/17</i>
1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
2. Check for transcription errors from Excel spreadsheet (or Prep Bench sheet)/Raw data	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(a) Reviewer: 100% of peak heights checked	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(b) Are there peak height errors?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(c) Error on a sample: Do peak heights, responses, & initial results match corrected data?	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
(d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
(e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
(f) Check and compare masses (review prep bench sheet)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
(g) Check and compare initial and final volumes	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
(h) Do aliquots and dilutions written on benchsheet match those in Excel?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
(i) Is the pH>3.0 for all distilled samples? _____	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
(j) Is the sequence #, analyst, date, and instrument # on the QC page?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(k) Is the analysis status correct? (analyzed/initial review/reviewed)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(l) Original prep bench sheet added to data package?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
3. High QA? WO#(s)/Client(s): _____	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/>
4. Client specific QC? (if Yes, refer to Project Notes/LIMS)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/>
(a) Have the QC requirements been met for all WO#s?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
5. 20 or fewer samples in batch? _____	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(a) 3 PBs, 1 LCS/LCSD (or BS/BSD), 2 MS/MSD/MD per batch?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
(b) 1 CCV and 1 CCB every 10 analytical runs? _____	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
<b>QA/QC Data Checked</b>		
6. The calibration curve included a minimum of 5 Standards	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments: _____		
7. 1st Calibration Standard % Recoveries (65-135%)	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments: _____		
8. RSD CF (≤ 15%)	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____		

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<b>Analyst:</b> DON MORAN	<b>Sequence #:</b> 7H28014, 7H28015
<b>Reviewer:</b> 0 <i>h q/g/xx</i>	<b>Dataset ID #:</b> MMHG27001-170825-1, MMHG27001-170825-2
<b>Date:</b> 8/28/2017	<b>WO #:</b> VARIOUS
<b>Batch #(s):</b> F708517, F708477	<b>Client(s):</b> VARIOUS

	<b>Analyst Initials:</b> <i>DM</i>	<b>Reviewer Initials:</b> <i>h q/g/xx</i>
9. ICV % Recoveries 67-133% Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
10. CCV % Recoveries 67-133% Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
11. Are the absolute value of the ICB and CCBs < PQL? Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
13. LCS/LCSD or BS/BSD RPD (< 25%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
14. Water: Average of Preparation Blanks < 0.045 ng/L and standard deviation of 0.015 ng/L? Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix? Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
17. Is the correct 'Source' designated for MD/MS/MSD?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
18. For digested preps: was there a spike witness signature & date on the prep bench sheet?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
19. MD RPD/MT RSD(< 35%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
20. Is there one set of MS/MSD per every 10 samples? Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
21. MS/MSD RPD(< 35%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
22. MS (AS) % Recoveries (65-130%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
23. MSD (ASD) % Recoveries (65-130%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
25. Are all samples within instrument calibration range (or at maximum aliquot size)? Comments: _____	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
26. For instrumental dilutions, is the dilution factor in excel correct? Is the sample volume, diluents, and final volume of the dilution noted on benchsheet?	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
27. Dissolved < Total metals (if applicable) Comments: _____	<input type="checkbox"/> PASS <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
28. Effluent < Influent metals (visually confirm if needed) Comments: _____	<input type="checkbox"/> PASS <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input checked="" type="checkbox"/>

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<b>Analyst:</b> DON MORAN	<b>Sequence #:</b> 7H28014, 7H28015
<b>Reviewer:</b> 0 <i>h 9/4/17</i>	<b>Dataset ID #:</b> MMHG27001-170825-1, MMHG27001-170825-2
<b>Date:</b> 8/28/2017	<b>WO #:</b> VARIOUS
<b>Batch #(s):</b> F708477, F708517	<b>Client(s):</b> VARIOUS

**Analyst Initials:**

*DM*

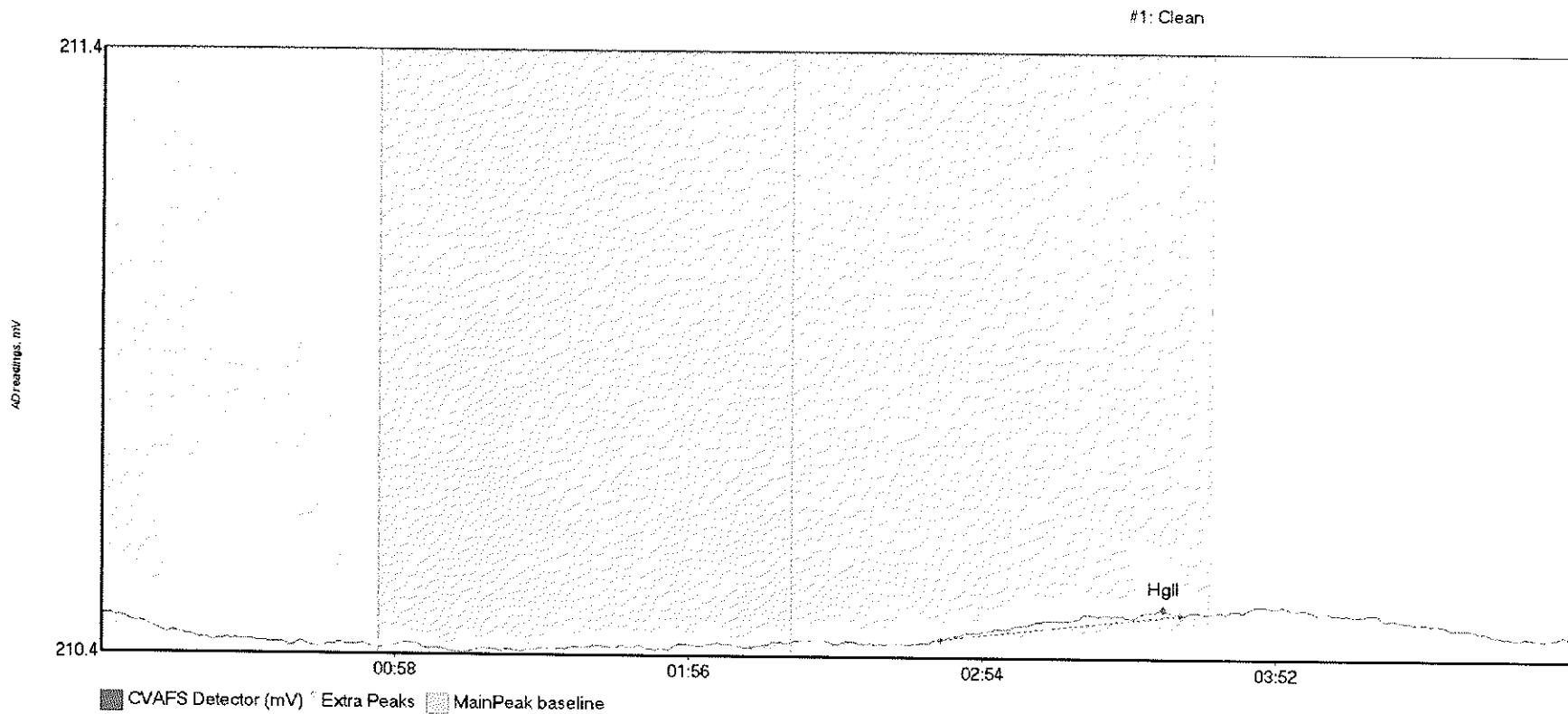
**Reviewer Initials:**

*h 9/4/17*

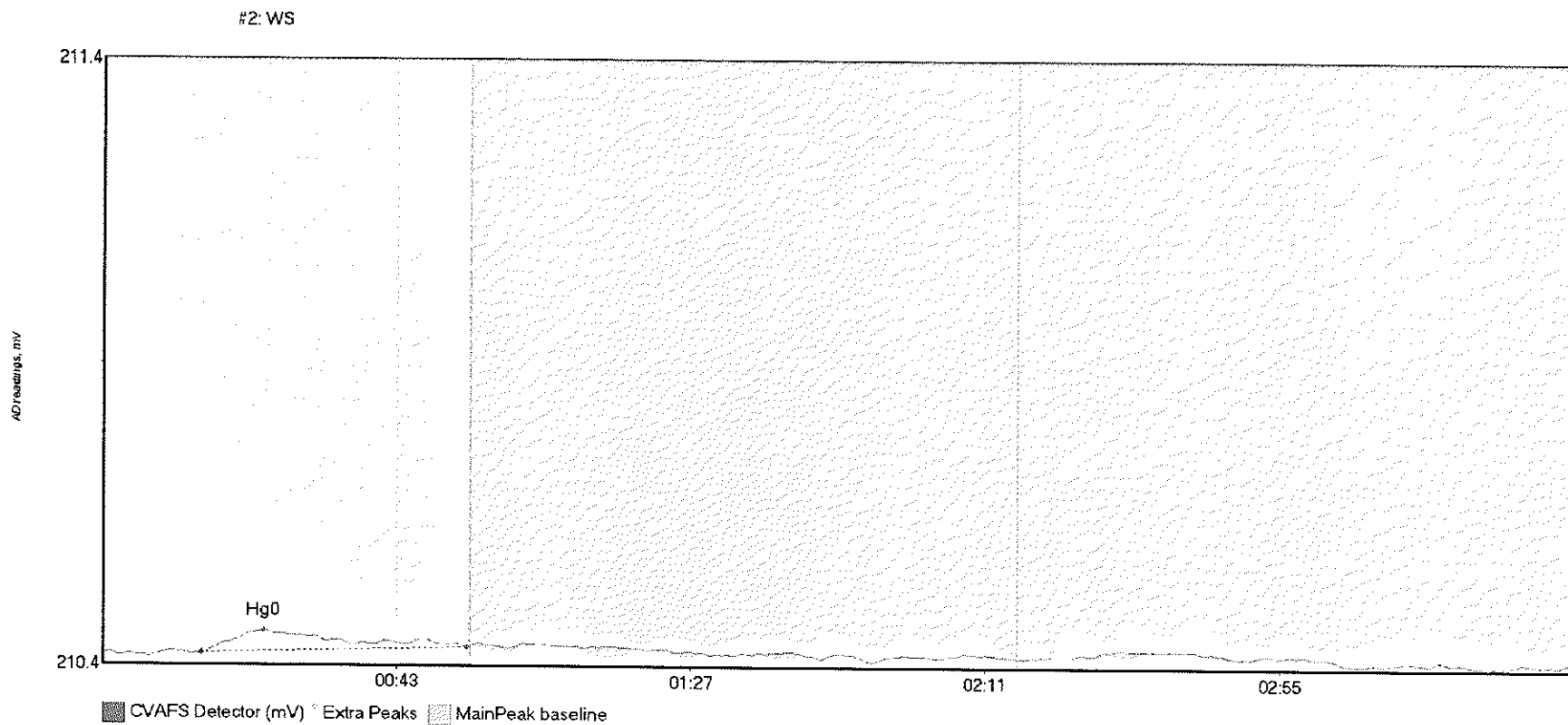
29. Are re-runs noted with reason?  
 Comments: \_\_\_\_\_  
 YES     NO     N/A
30. For failing QC (CCV, CCB, PB, BS/BSD, CAL):  
 Was a bubbler and trap test run before the analytical run continued?  
 Comments: \_\_\_\_\_  
 YES     NO     N/A
31. Do re-run results compare to initial analysis (< 35% RPD)?  
 Comments: *Initial run had QC failure (F708477)*  
 YES     NO     N/A
32. Are qualifiers consistent with the data review flowcharts?  
 Comments: \_\_\_\_\_  
 YES     NO     N/A
33. Have non-reportable samples been imported into LIMS and clicked to non-reportable?  
 Comments: \_\_\_\_\_  
 YES     NO     N/A
34. Have re-extracts been created for non-reportable samples?  
 YES     NO     N/A
35. Narrations in MMO box in LIMS?  
 Comments: \_\_\_\_\_
36. Are there any HIGH QA projects within the data?  
 If so, place dataset to the QA office.  
 YES     NO
37. Does the data set need scanning?  
 YES     N/A      
Files located at: \\Cuprum\gen\_admin\Quality Assurance\Training Master\DOCs
38. Date of analyst IDOC/CDOC: 6/13/2017 IDOC/CDOC within last 12 months?  YES     NO
39. Date of analyst's SOP reading: 5/23/2016 Current SOP revision?  YES     NO
40. Date of LOD: 4/24/17, 5/8/17 LOD within last 3 months (within 12 months for MDN)?  YES     NO     N/A
41. Date of LOQ: 4/24/17, 5/8/17 LOQ within last 3 months (within 12 months for MDN)?  YES     NO     N/A
42. If MDN samples, date of last MDL study: \_\_\_\_\_
43. MDL study within last 12 months?  YES     NO     N/A

**Data can not be reported without a current IDOC/CDOC, LOD or LOQ.**

- Additional Comments: \_\_\_\_\_  
 YES     NO



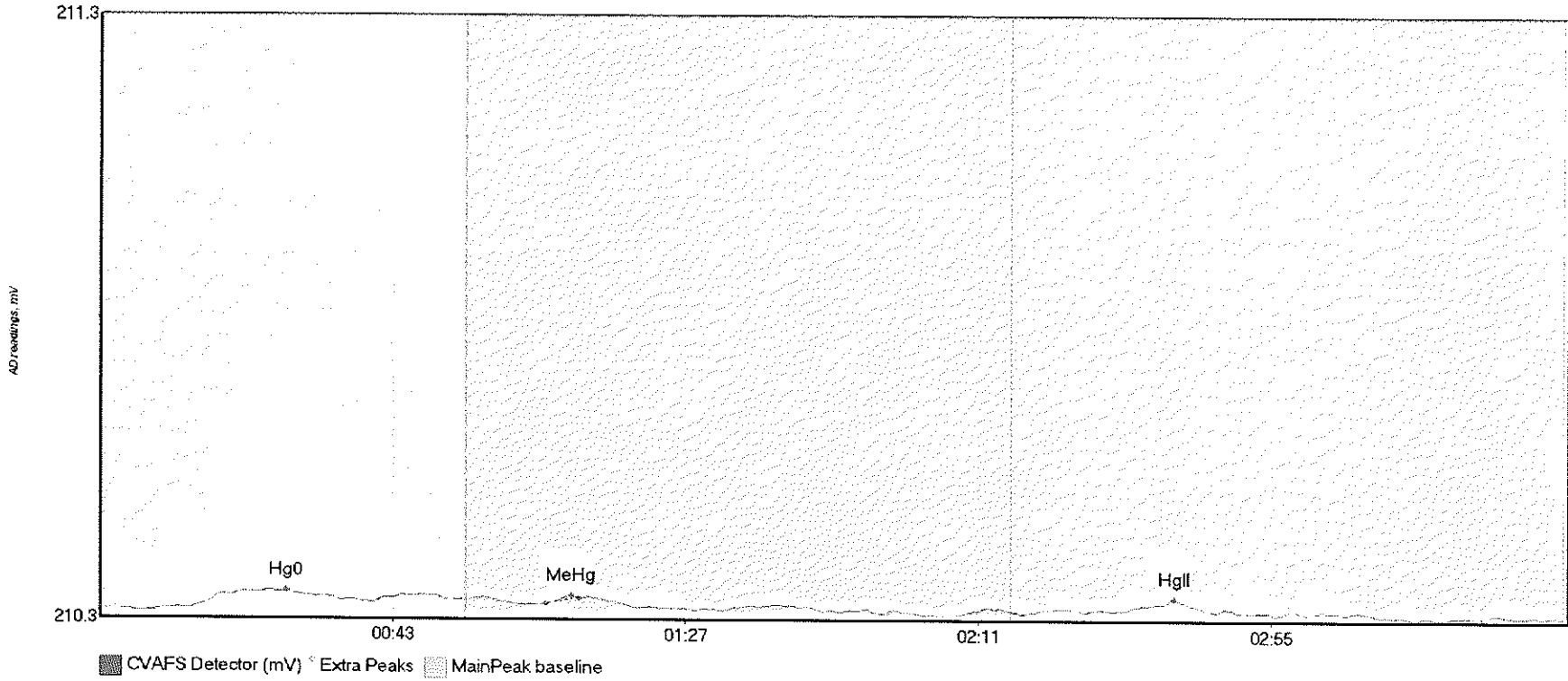
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
Clean	4.224	166.3	213.9	210.47	210.52	210.5	0.051	OK	210.5081	0.00	-0.03	017



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS	6.465	14.9	54.5	210.38	210.39	24.2	0.037	OK	210.3780	0.00	-0.01	317



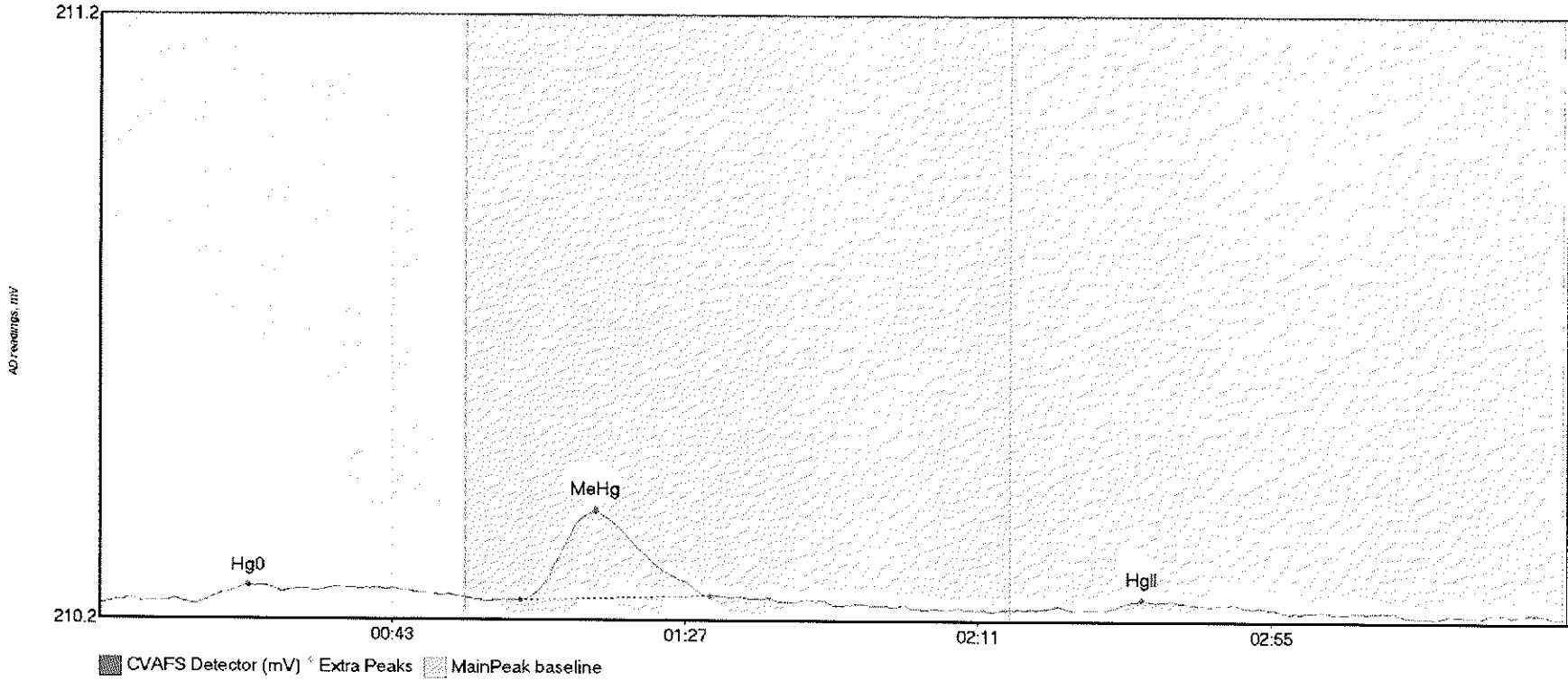
#3: SEQ-IBL1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-IBL1 Hg0	4.084	13.5	41.0	210.32	210.33	28.0	0.030	OK	210.3235	0.00	-0.01	
SEQ-IBL1 MeHg	0.158	67.0	72.0	210.33	210.34	70.8	0.014	OK	210.3235	0.00	-0.01	
SEQ-IBL1 HgII	1.340	153.8	167.6	210.32	210.32	161.4	0.019	OK	210.3235	0.00	-0.01	

017

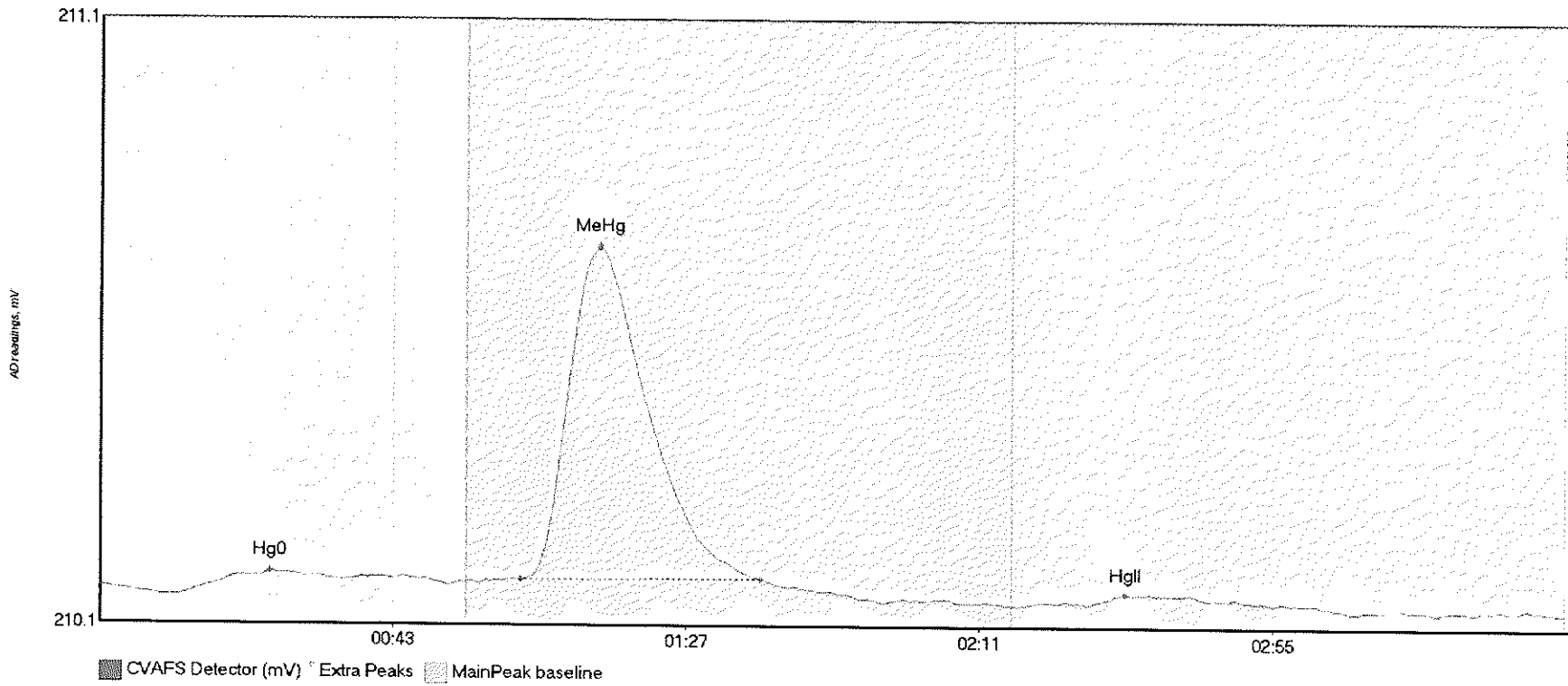
#4: SEQ-CAL1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL1 Hg0	6.579	14.0	55.0	210.26	210.27	22.5	0.031	CT	210.2575	0.00	-0.02	
SEQ-CAL1 MeHg	19.121	63.3	91.8	210.27	210.27	74.6	0.146	OK	210.2575	0.00	-0.02	
SEQ-CAL1 HgII	1.942	150.6	172.2	210.25	210.26	156.6	0.019	OK	210.2575	0.00	-0.02	

017

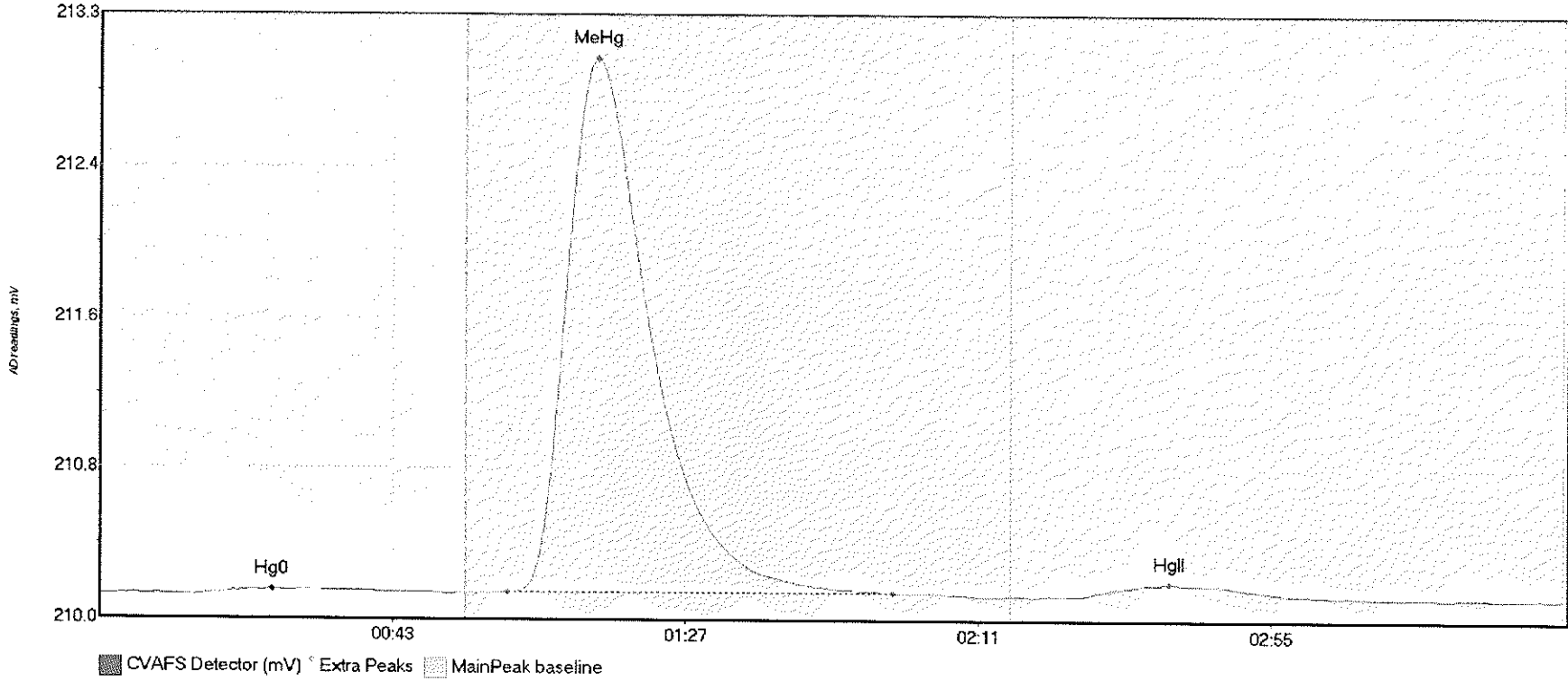
#5: SEQ-CAL2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL2 Hg0	7.552	11.6	52.5	210.17	210.19	25.6	0.040	OK	210.1886	0.00	-0.04	
SEQ-CAL2 MeHg	74.260	63.1	99.1	210.20	210.20	75.0	0.549	OK	210.1886	0.00	-0.04	
SEQ-CAL2 HgII	2.802	148.2	176.1	210.17	210.17	153.9	0.018	OK	210.1886	0.00	-0.04	

017

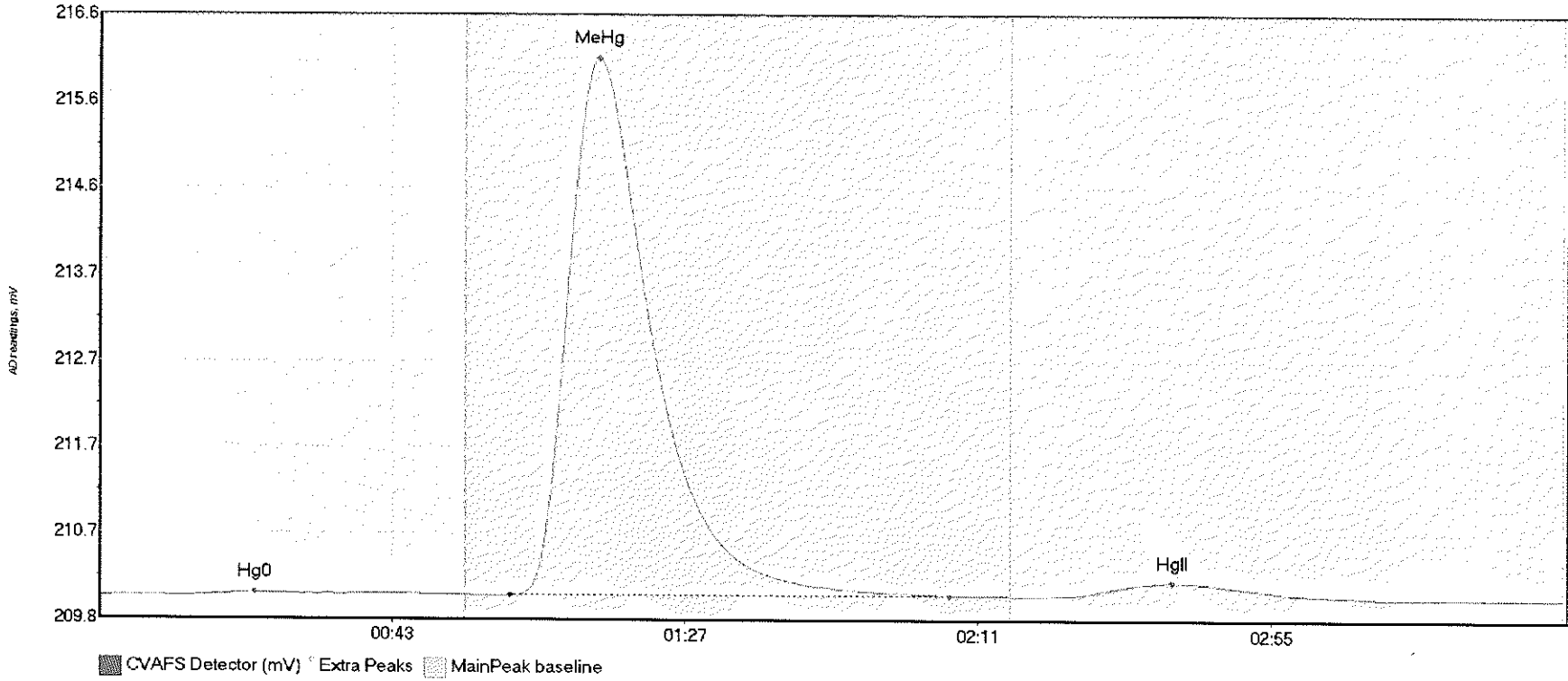
#6: SEQ-CAL3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL3 Hg0	4.722	16.3	52.4	210.10	210.10	25.8	0.022	OK	210.0960	0.00	-0.02	
SEQ-CAL3 MeHg	424.008	61.3	119.1	210.11	210.11	74.8	2.912	OK	210.0960	0.00	-0.02	
SEQ-CAL3 HgII	13.130	146.1	180.6	210.09	210.10	160.8	0.069	OK	210.0960	0.00	-0.02	

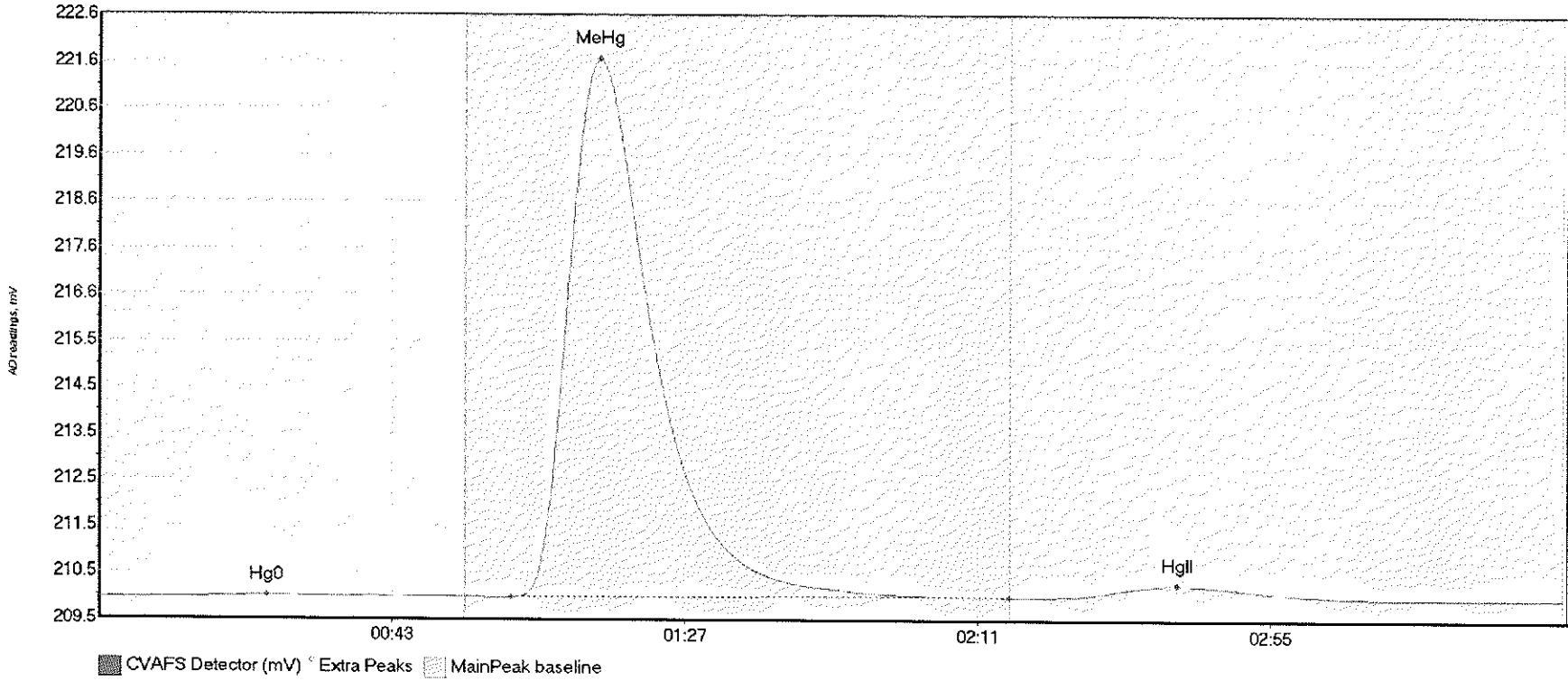
017

#7: SEQ-CAL4



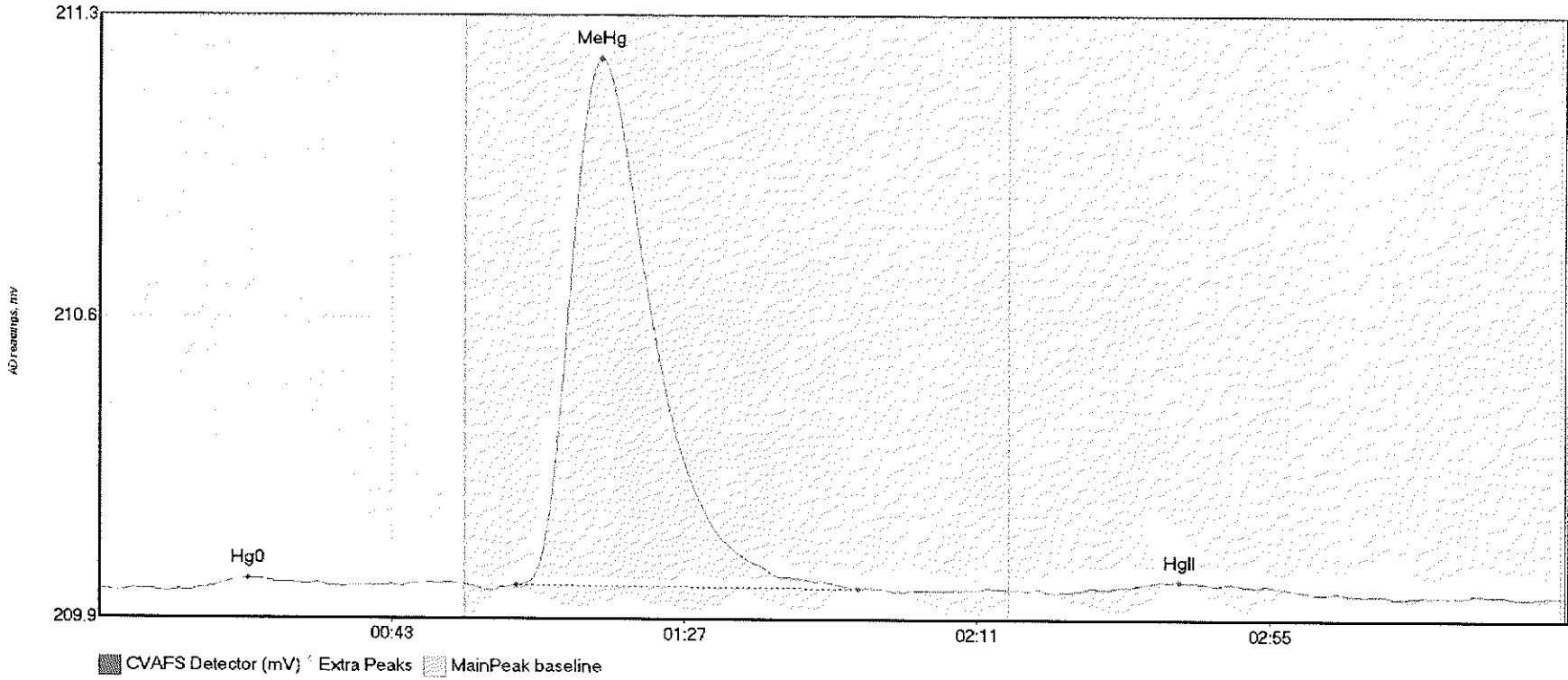
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL4 Hg0	6.954	13.1	53.5	210.03	210.05	23.5	0.037	OK	210.0292	0.00	-0.01	
SEQ-CAL4 MeHg	887.060	61.7	127.7	210.04	210.05	75.0	6.069	OK	210.0292	0.00	-0.01	
SEQ-CAL4 HgII	31.408	144.6	186.2	210.05	210.04	161.2	0.150	OK	210.0292	0.00	-0.01	

#8: SEQ-CAL5



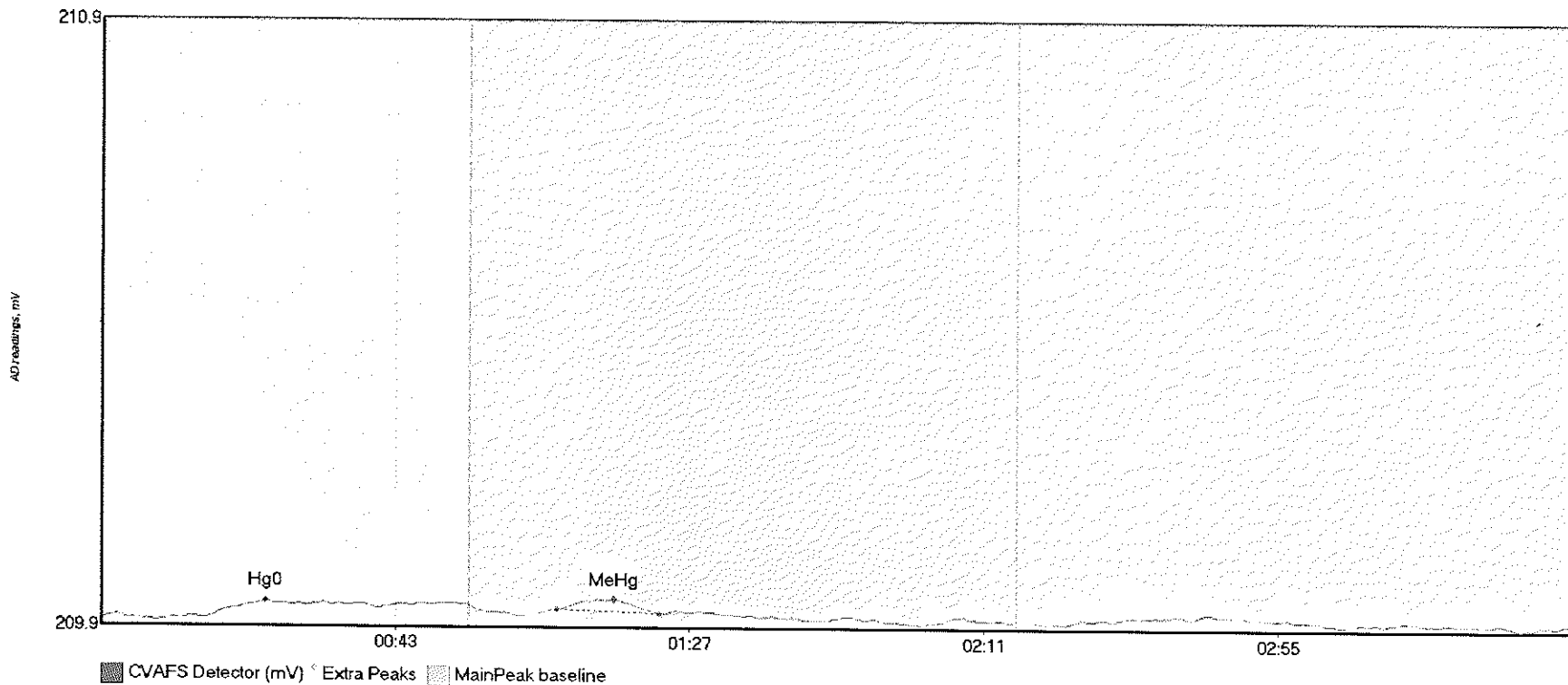
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL5 Hg0	8.215	13.8	51.7	209.97	209.98	25.1	0.042	OK	209.9659	0.00	0.00	
SEQ-CAL5 MeHg	1728.471	61.9	136.8	209.98	209.99	75.2	11.704	CT	209.9659	0.00	0.00	
SEQ-CAL5 HgII	59.372	140.8	188.6	209.99	209.99	162.0	0.272	OK	209.9659	0.00	0.00	

#9: SEQ-ICV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICV1 Hg0	2.335	15.7	36.7	209.92	209.93	22.4	0.022	OK	209.9200	0.00	-0.01	
SEQ-ICV1 MeHg	182.663	62.7	114.1	209.93	209.92	75.4	1.261	OK	209.9200	0.00	-0.01	
SEQ-ICV1 HgII	3.259	152.6	180.9	209.93	209.92	162.5	0.016	OK	209.9200	0.00	-0.01	

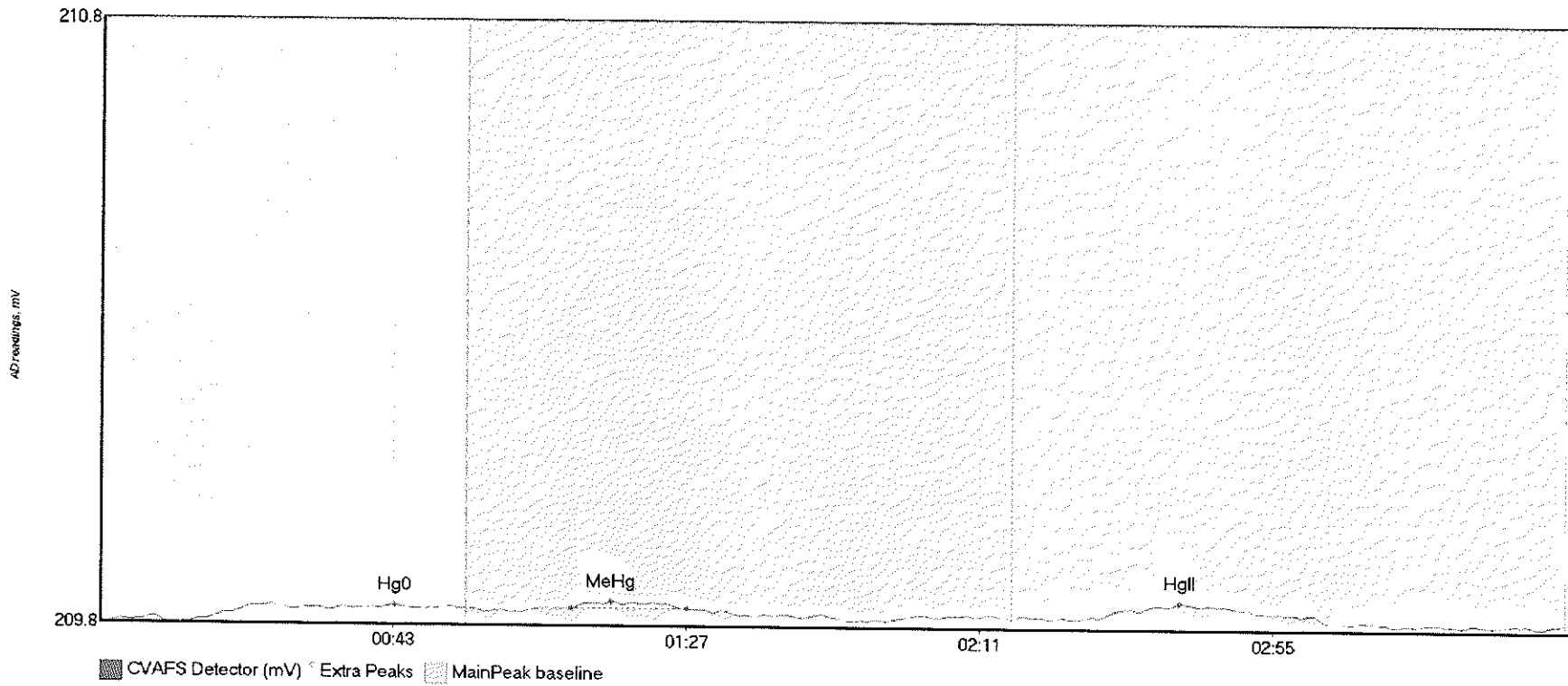
#10: SEQ-ICB1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICB1 Hg0	2.885	15.4	41.1	209.88	209.90	24.6	0.026	OK	209.8812	0.00	0.00	
SEQ-ICB1 MeHg	1.799	68.1	83.4	209.90	209.89	76.7	0.017	OK	209.8812	0.00	0.00	017



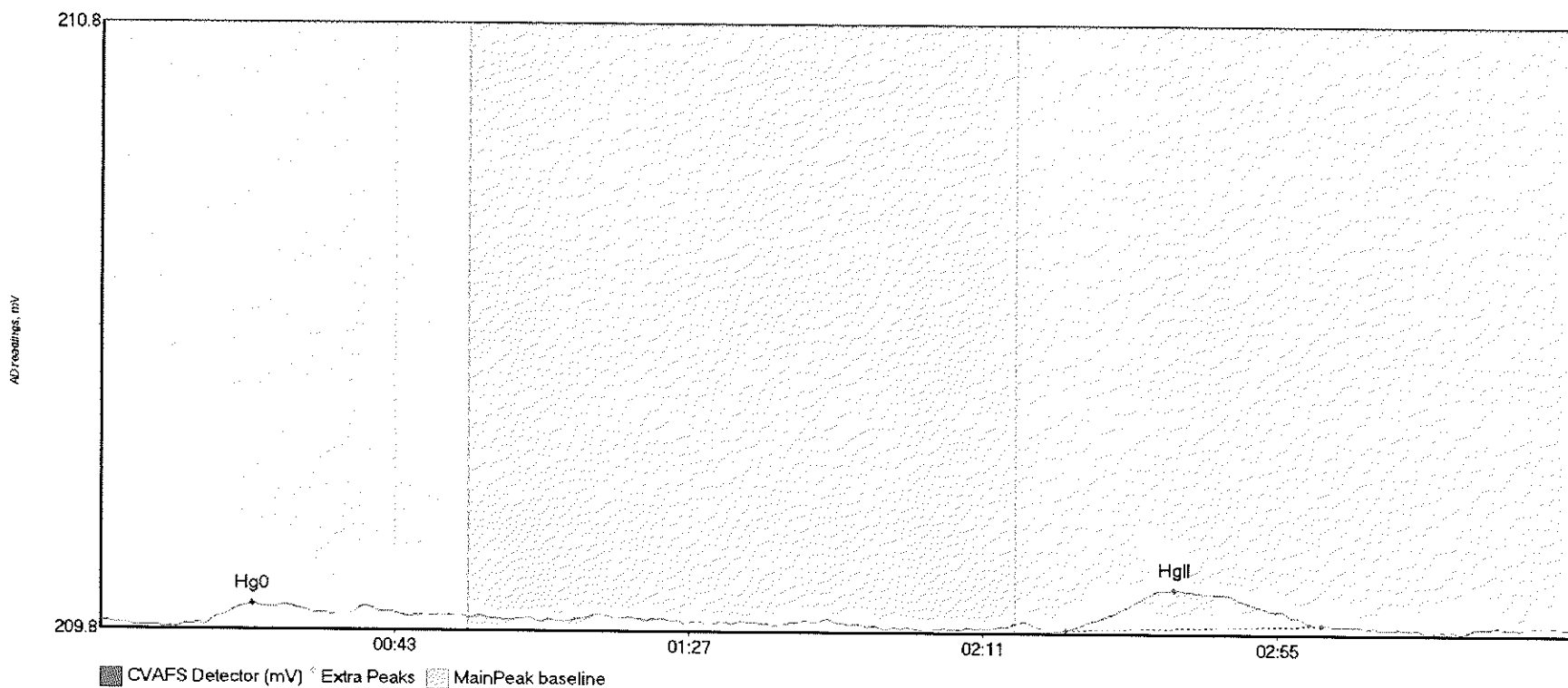
#11: F708475-BLK4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BLK4 Hg	3.410	15.6	48.7	209.86	209.88	44.3	0.027	OK	209.8524	0.00	0.01	
F708475-BLK4 Me	1.326	70.7	88.0	209.88	209.88	76.8	0.011	OK	209.8524	0.00	0.01	
F708475-BLK4 Hg	5.734	149.7	184.4	209.87	209.86	162.1	0.025	OK	209.8524	0.00	0.01	

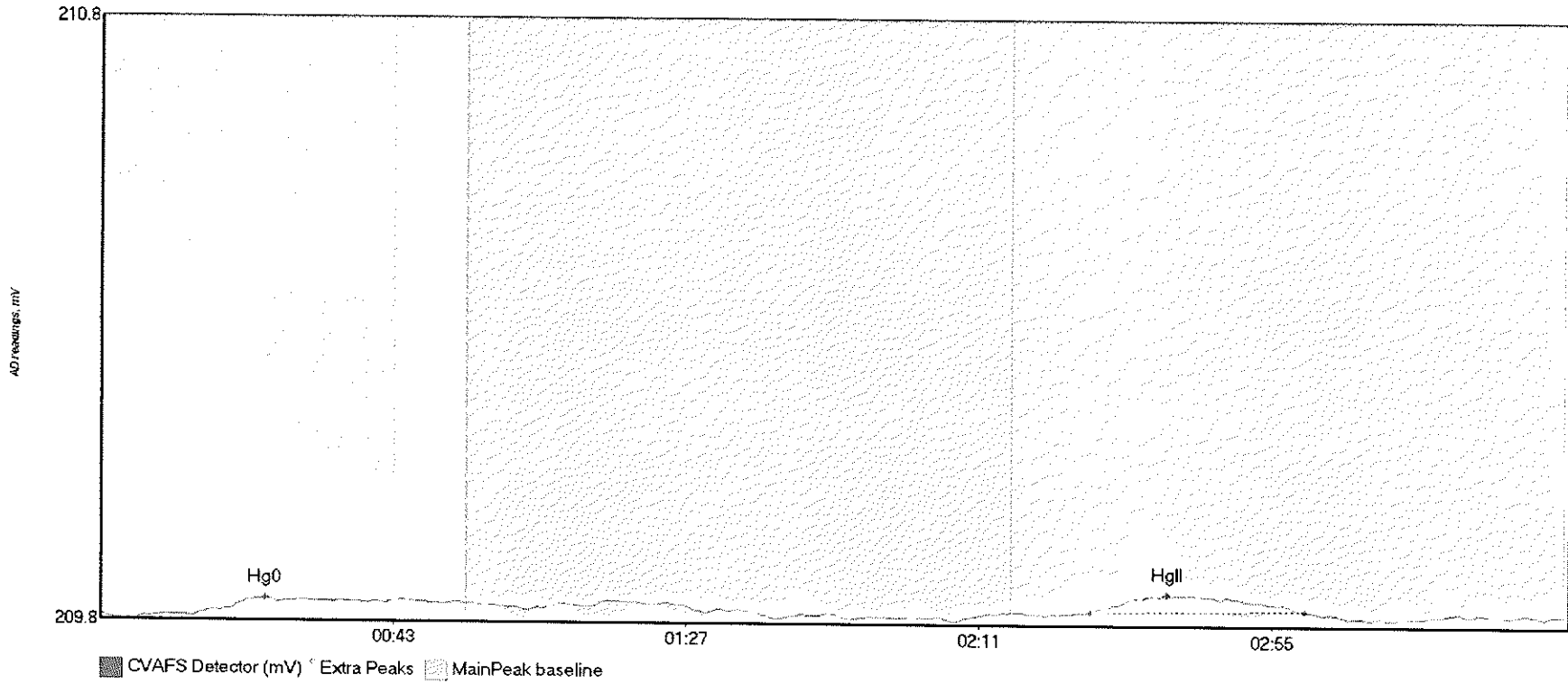
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#12: F708475-BLK5



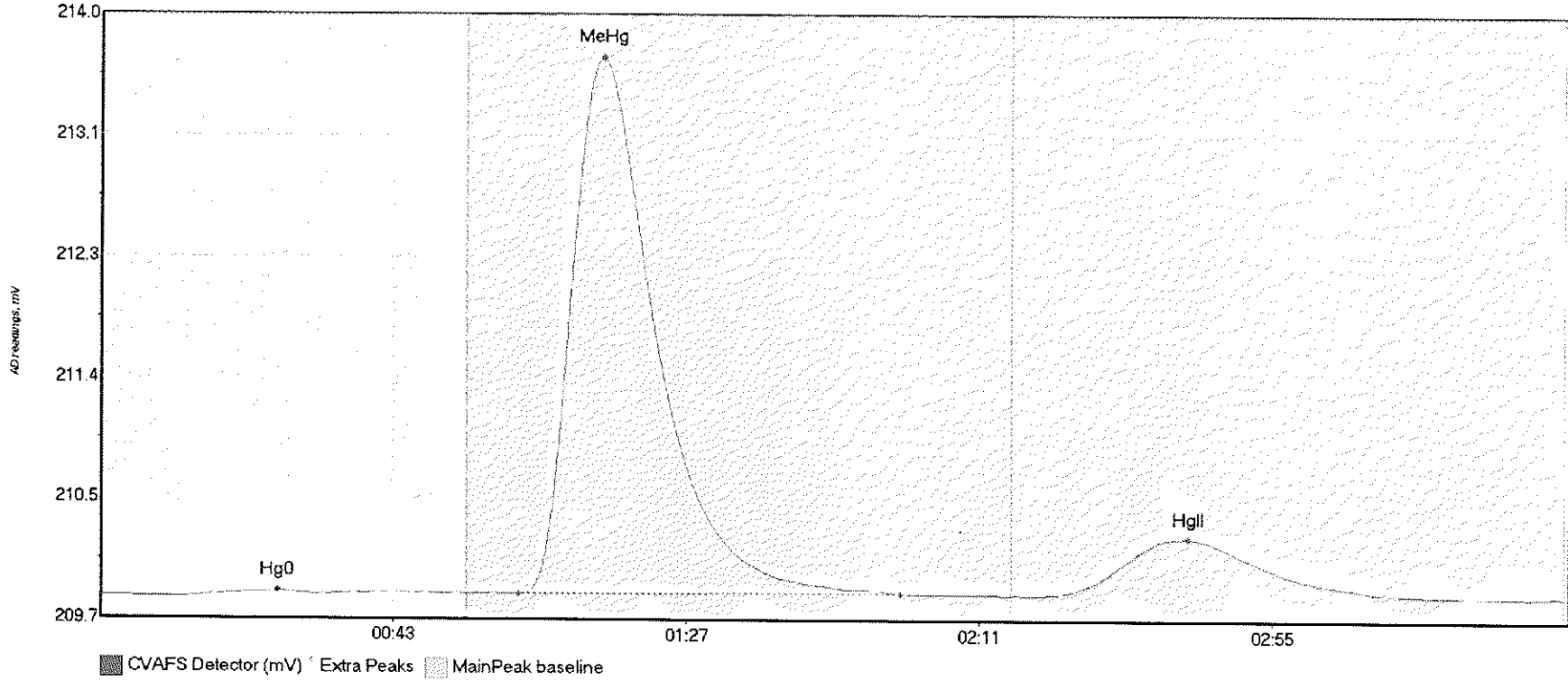
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BLK5 Hg	5.943	15.6	55.0	209.84	209.86	22.7	0.035	CT	209.8472	0.00	0.00	
F708475-BLK5 Hg	13.220	144.5	182.6	209.84	209.85	160.6	0.066	OK	209.8472	0.00	0.00	017

#13: F708475-BLK6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BLK6 Hg	4.293	13.4	51.3	209.83	209.86	24.7	0.029	OK	209.8353	0.00	0.01	
F708475-BLK6 Hg	5.939	148.6	180.9	209.85	209.85	160.3	0.030	OK	209.8353	0.00	0.01	017

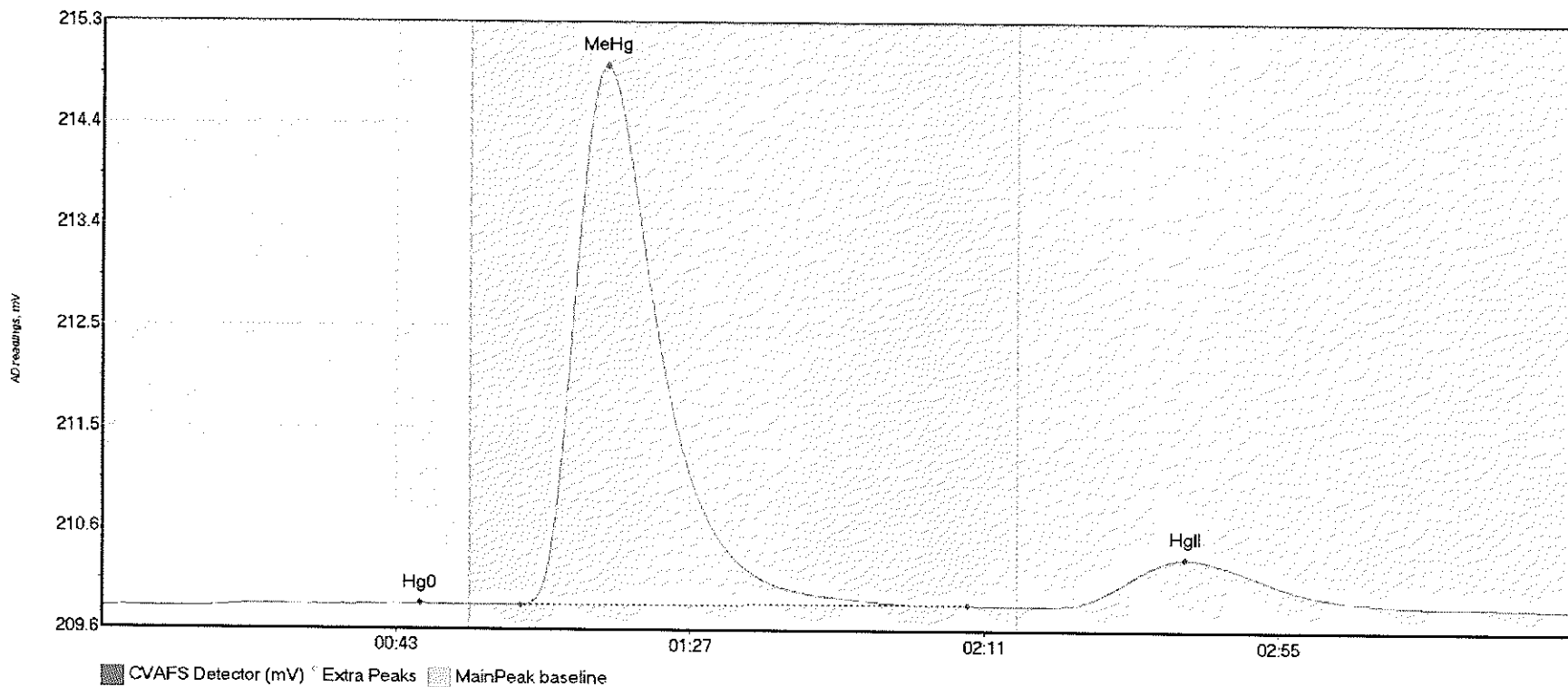
#14: F708475-BS3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BS3 Hg0	2.740	14.1	33.3	209.83	209.85	26.6	0.035	OK	209.8365	0.00	0.01	
F708475-BS3 MeH	562.019	62.7	120.1	209.85	209.86	75.4	3.842	OK	209.8365	0.00	0.01	
F708475-BS3 HgI	92.967	143.3	196.7	209.85	209.85	163.3	0.404	OK	209.8365	0.00	0.01	

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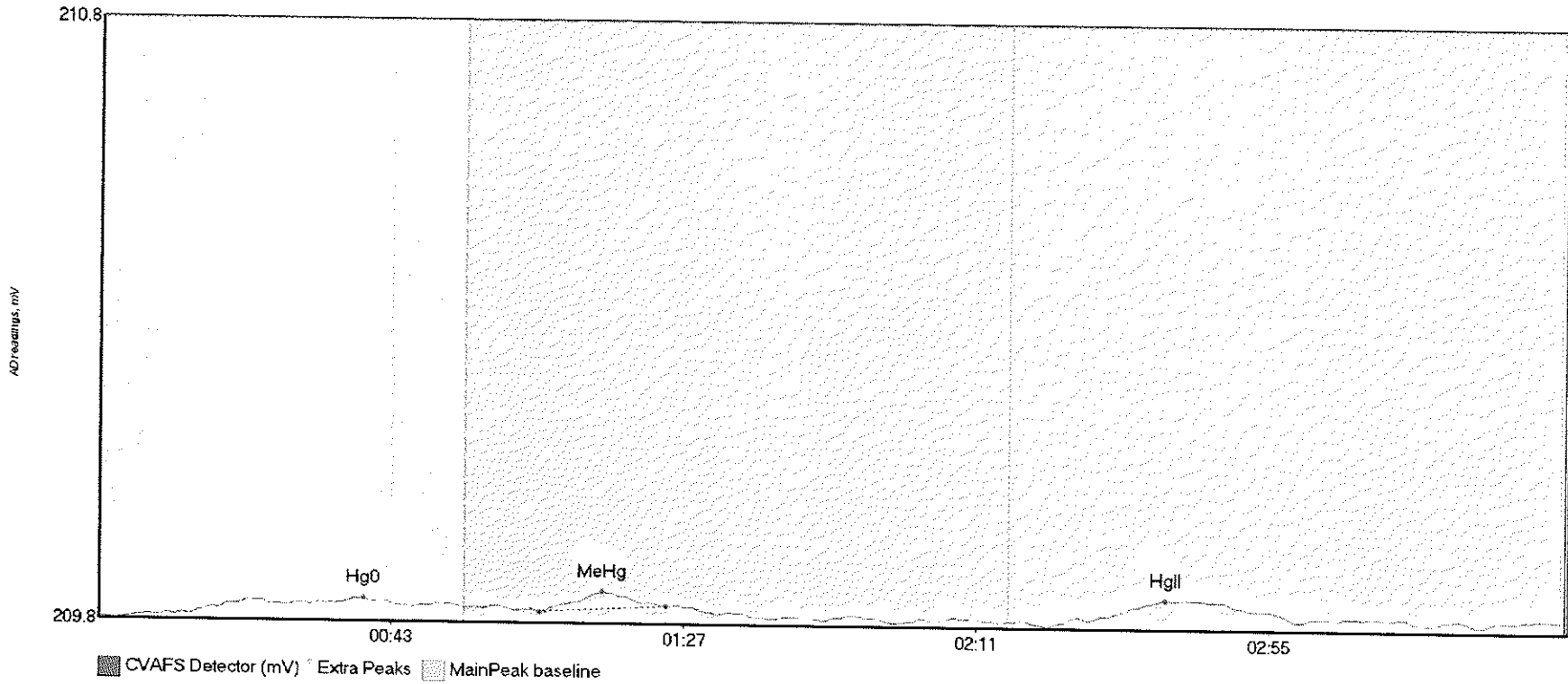
#15: F708475-BSD3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BSD3 Hg	4.871	14.5	52.6	209.83	209.85	47.6	0.034	OK	209.8309	0.00	0.01	
F708475-BSD3 Me	744.585	62.6	129.4	209.85	209.86	75.4	5.045	OK	209.8309	0.00	0.01	
F708475-BSD3 Hg	99.566	143.0	198.7	209.86	209.86	162.0	0.442	OK	209.8309	0.00	0.01	

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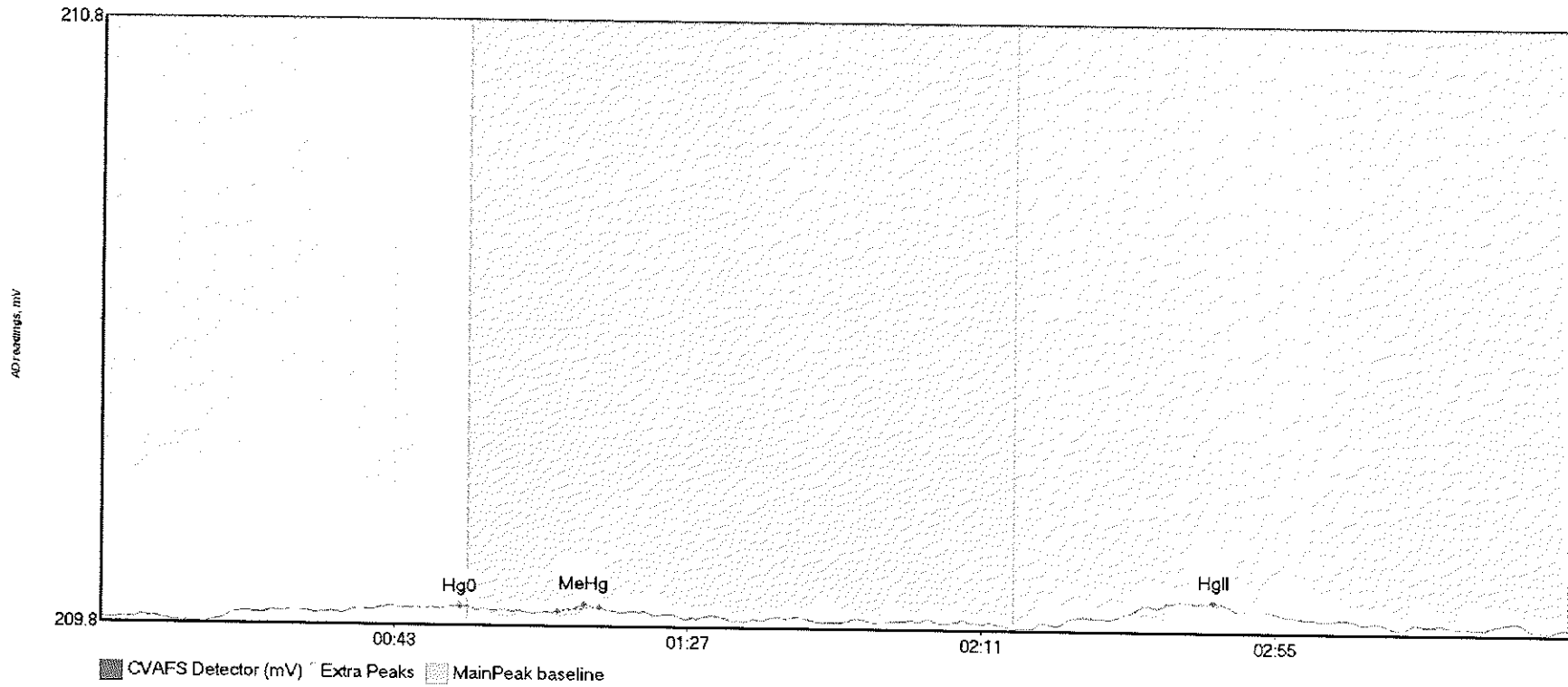
#16: F708477-BLK4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-BLK4 Hg	4.672	9.2	54.9	209.83	209.84	39.9	0.029	OK	209.8242	0.00	0.01	
F708477-BLK4 Me	2.620	66.3	85.3	209.84	209.85	75.7	0.034	OK	209.8242	0.00	0.01	
F708477-BLK4 Hg	6.884	148.8	180.3	209.83	209.83	160.5	0.036	OK	209.8242	0.00	0.01	

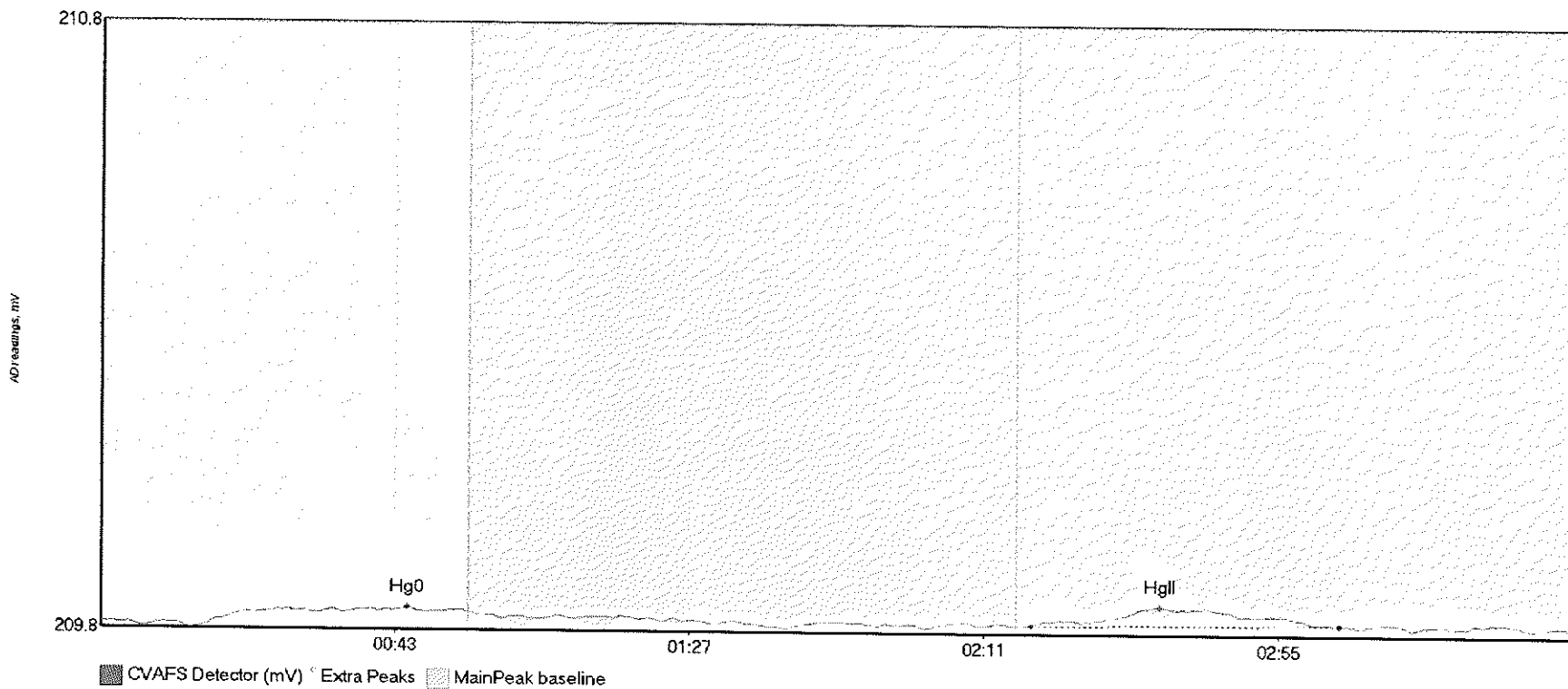
017

#17: F708477-BLK5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-BLK5 Hg	1.678	17.5	54.9	209.83	209.85	53.8	0.025	OK	209.8308	0.00	0.00	
F708477-BLK5 Me	0.228	68.4	74.7	209.85	209.85	72.5	0.011	OK	209.8308	0.00	0.00	
F708477-BLK5 Hg	12.919	139.3	194.5	209.83	209.83	166.8	0.046	OK	209.8308	0.00	0.00	

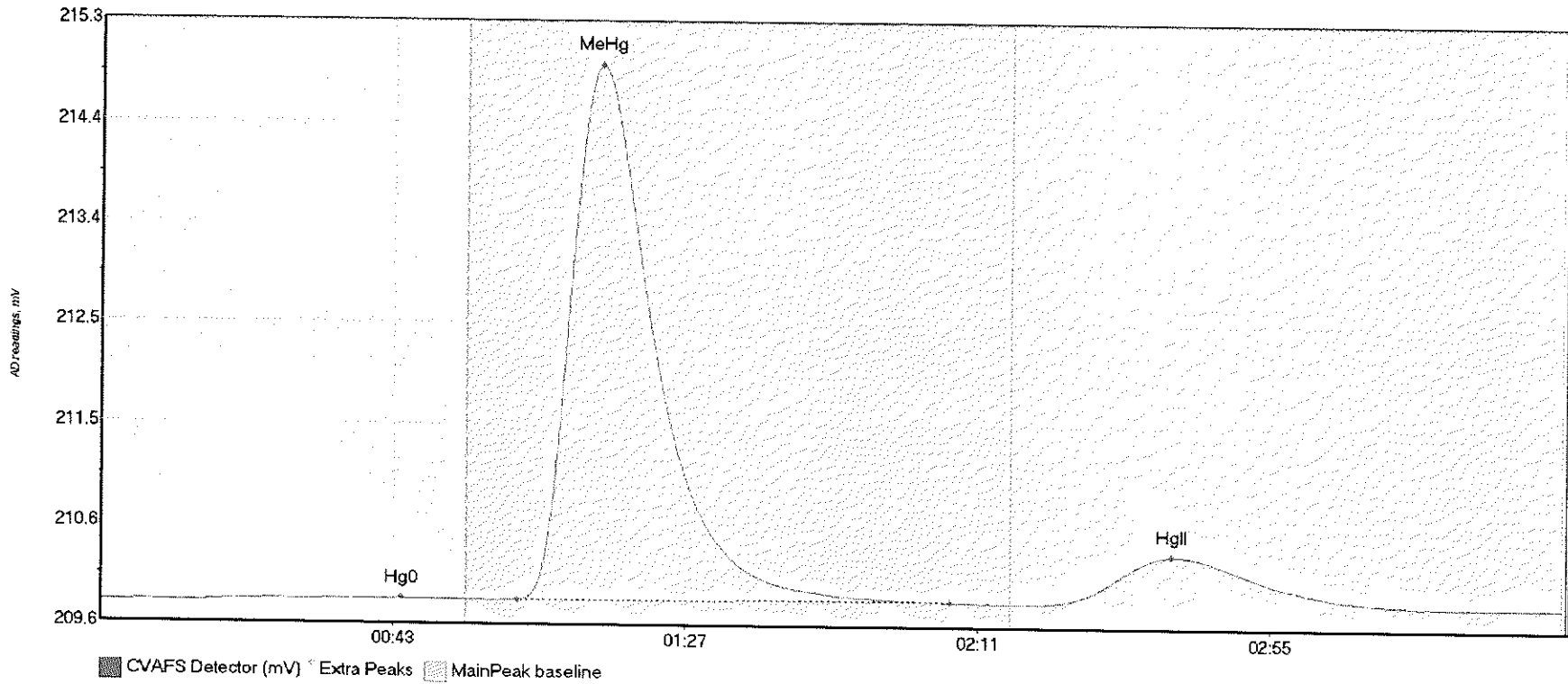
#18: F708477-BLK6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-BLK6 Hg	4.073	14.0	48.8	209.81	209.84	45.9	0.034	OK	209.8182	0.00	0.00	
F708477-BLK6 Hg	7.208	139.2	185.0	209.82	209.82	158.3	0.033	OK	209.8182	0.00	0.00	017

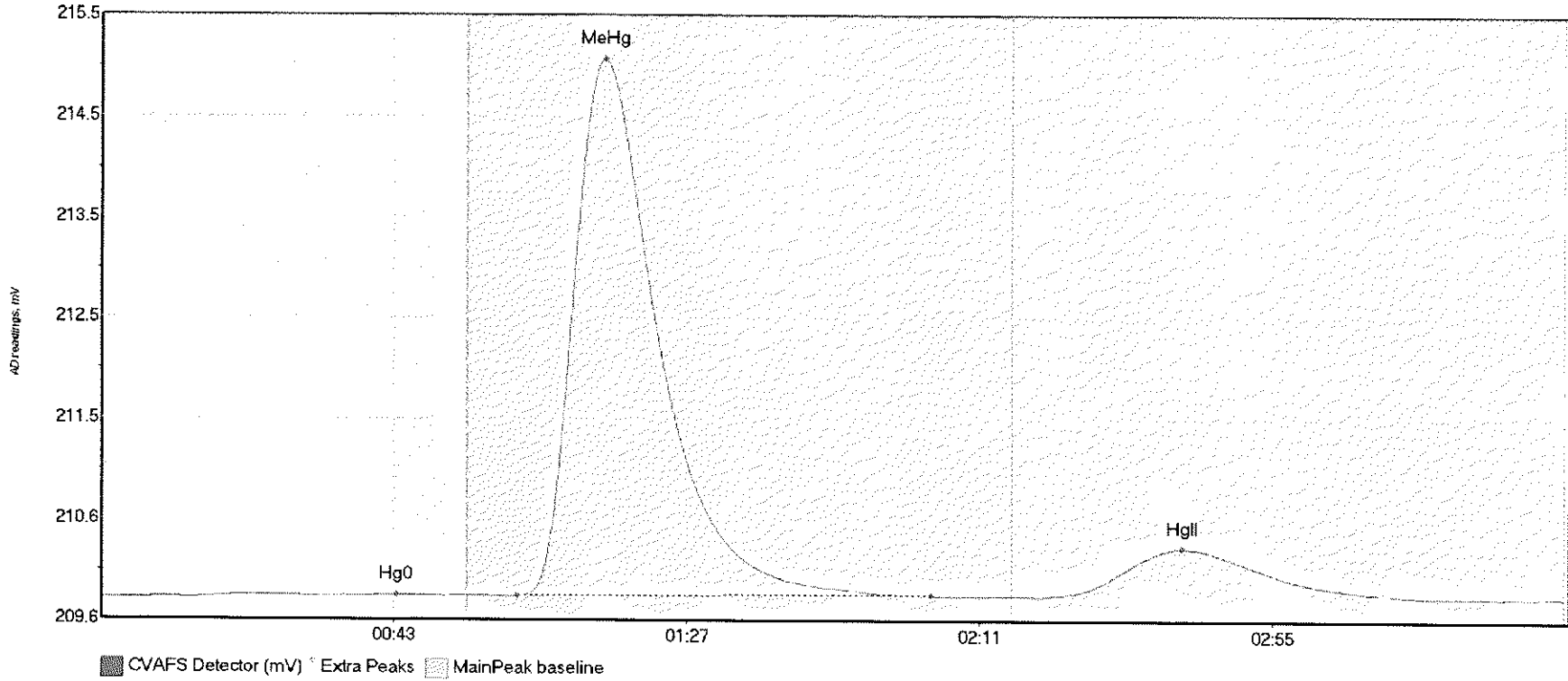


#19: F708477-BS2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-BS2 Hg0	4.197	14.6	49.3	209.81	209.83	45.3	0.036	OK	209.8099	0.00	0.01	
F708477-BS2 MeH	738.391	62.7	127.7	209.83	209.84	75.2	5.062	OK	209.8099	0.00	0.01	
F708477-BS2 HgI	109.396	139.6	198.7	209.83	209.82	161.2	0.460	OK	209.8099	0.00	0.01	

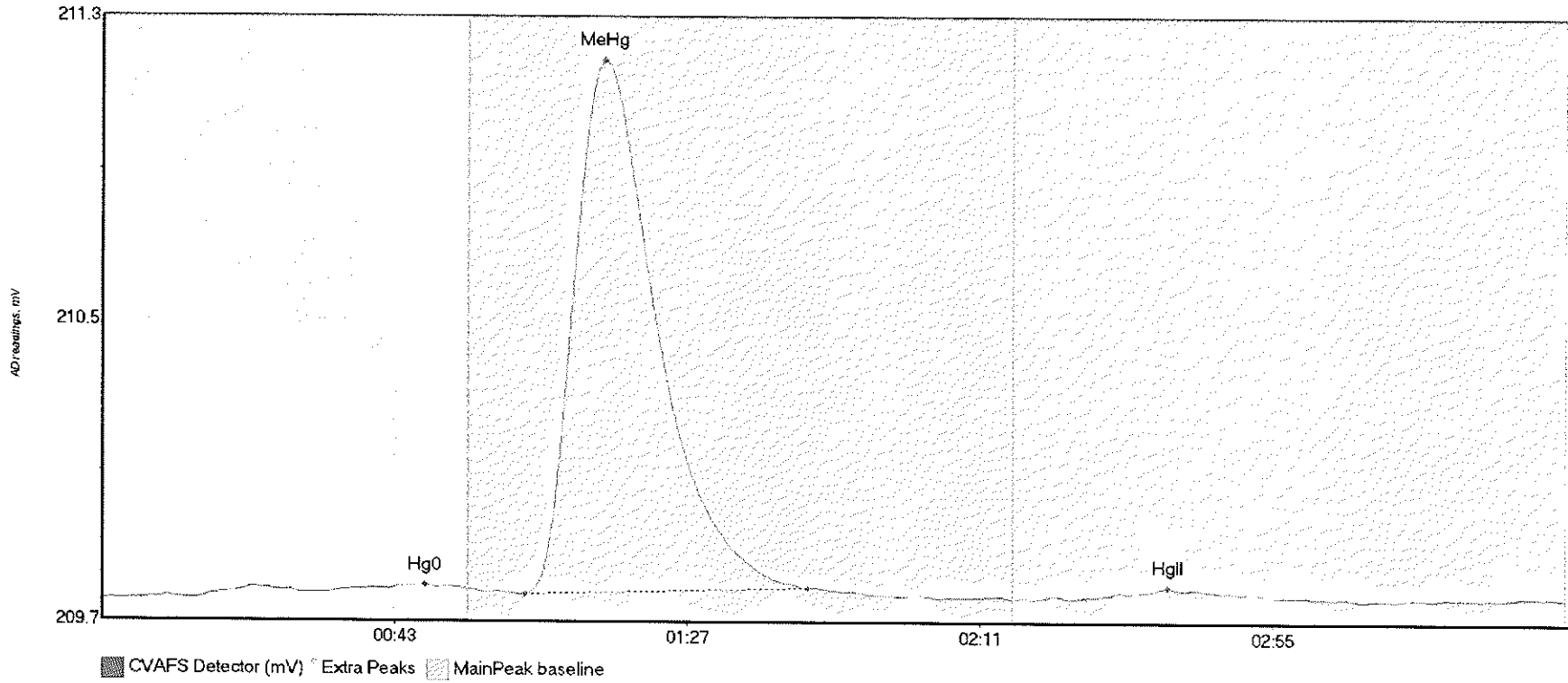
#20: F708477-BSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-BSD2 Hg	3.914	6.3	51.9	209.80	209.82	44.4	0.031	OK	209.7970	0.00	0.02	
F708477-BSD2 Me	765.375	62.4	124.8	209.82	209.83	75.7	5.218	OK	209.7970	0.00	0.02	
F708477-BSD2 Hg	109.943	140.7	197.8	209.82	209.82	162.4	0.472	OK	209.7970	0.00	0.02	

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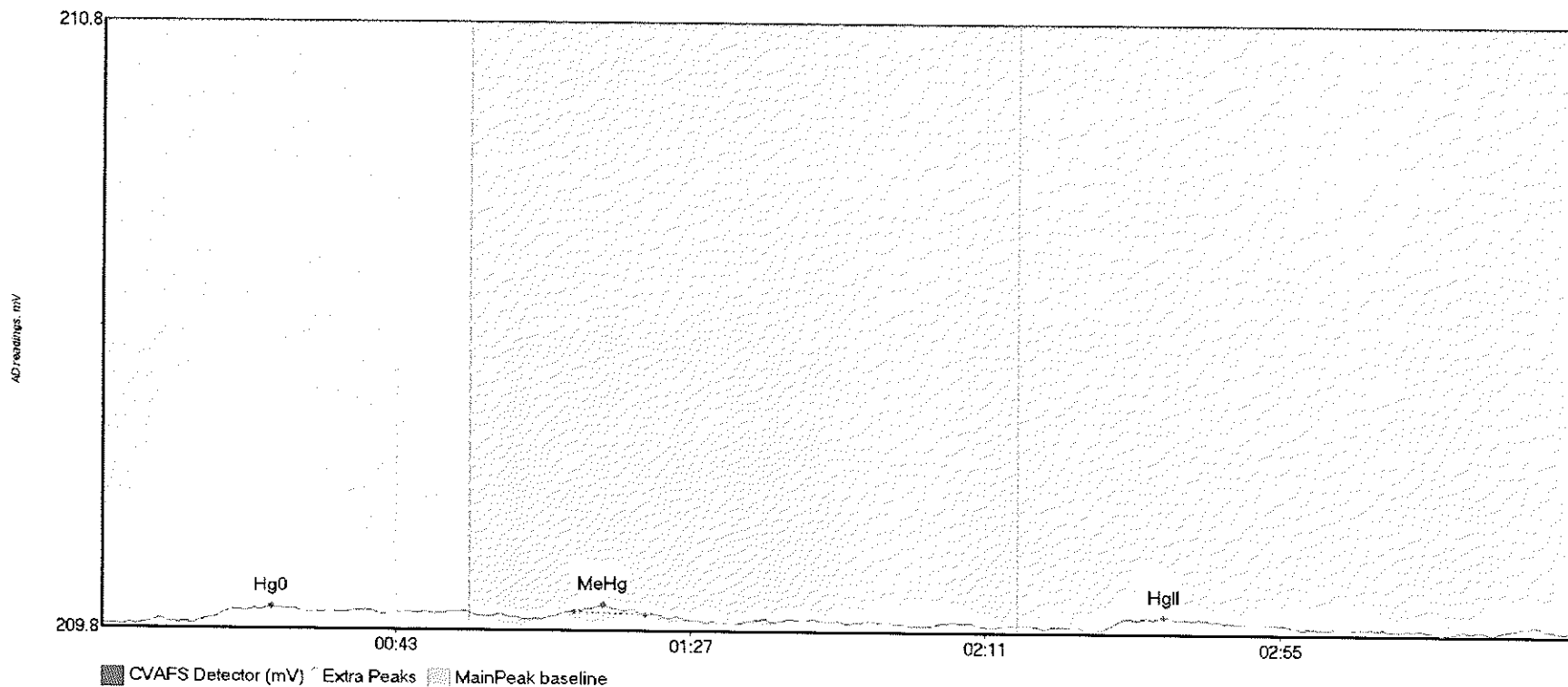
#21: SEQ-CCV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0	3.925	14.8	55.0	209.81	209.83	48.6	0.031	CT	209.8048	0.00	0.01	
SEQ-CCV1 MeHg	194.864	63.6	106.0	209.82	209.83	75.5	1.360	OK	209.8048	0.00	0.01	
SEQ-CCV1 HgII	3.355	149.4	176.8	209.81	209.81	160.2	0.025	OK	209.8048	0.00	0.01	

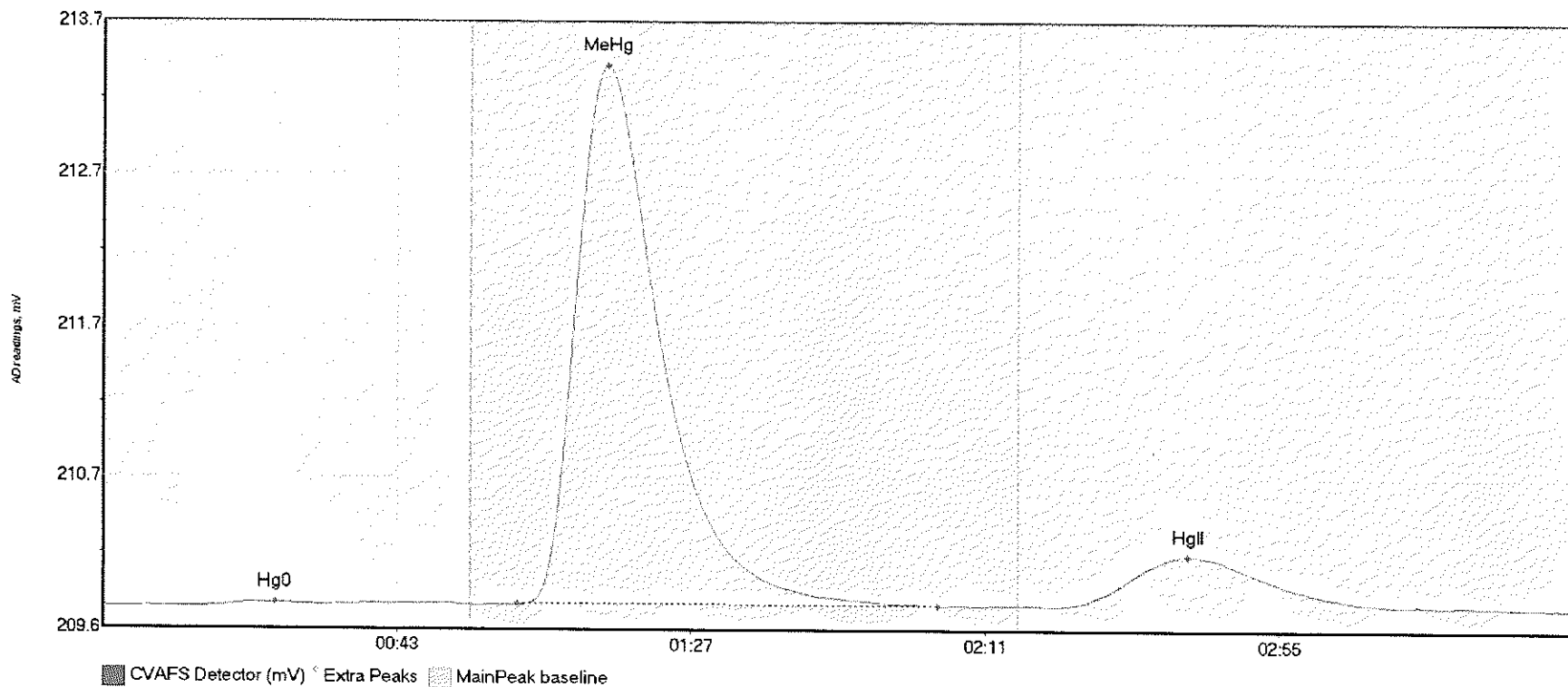
017

#22: SEQ-CCB1



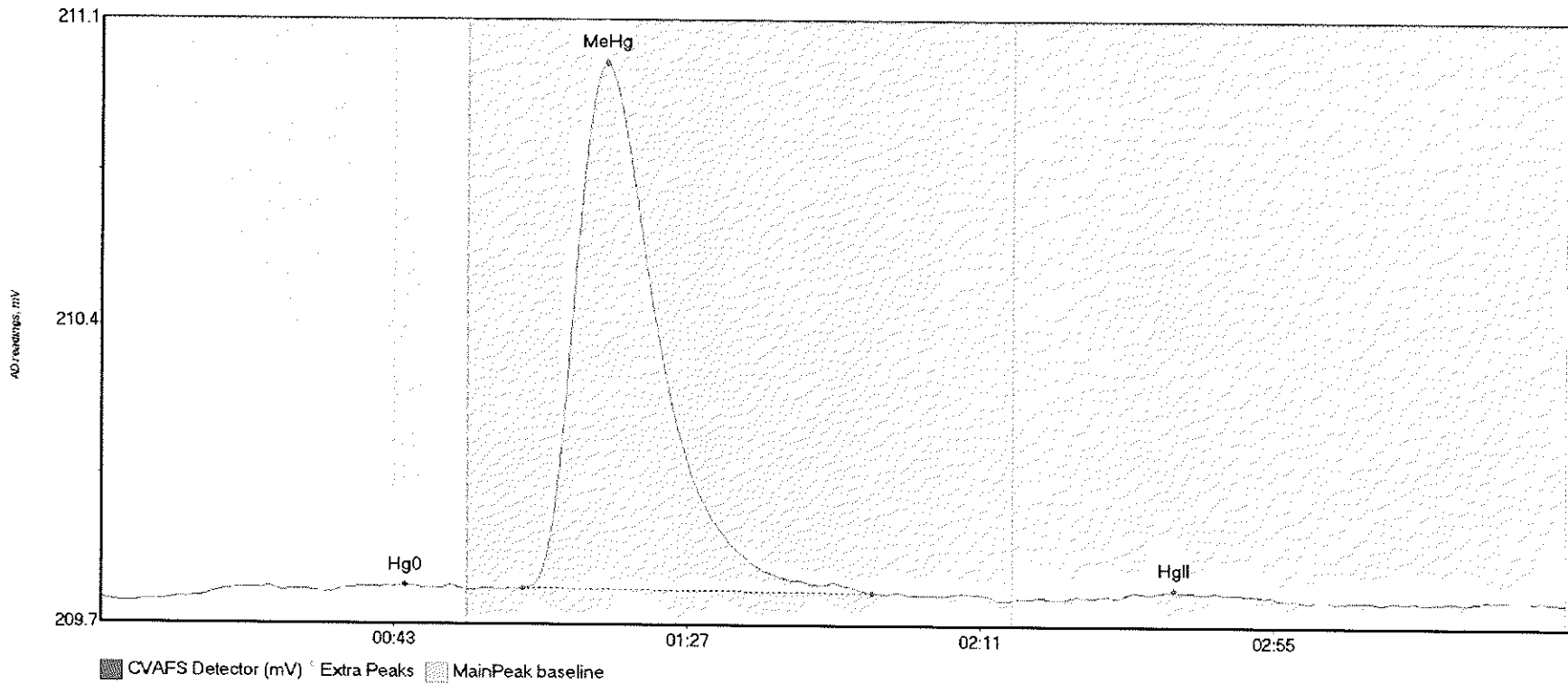
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
SEQ-CCB1 Hg0	3.287	13.7	42.3	209.81	209.82	25.3	0.026	OK	209.8032	0.00	0.00	
SEQ-CCB1 MeHg	0.746	70.5	81.2	209.83	209.82	74.9	0.011	OK	209.8032	0.00	0.00	
SEQ-CCB1 HgII	2.470	149.4	174.1	209.80	209.81	158.6	0.021	OK	209.8032	0.00	0.00	

#23: F708475-BS4



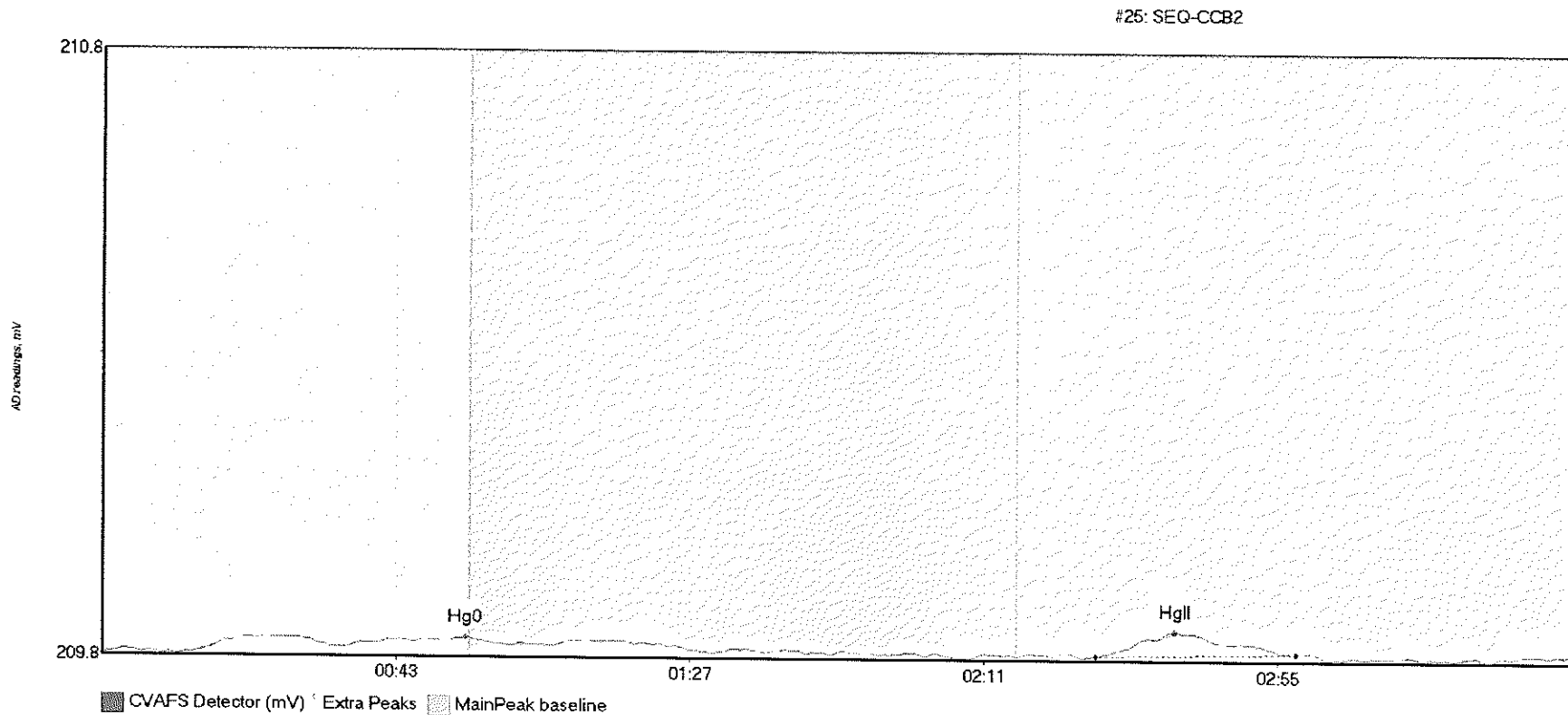
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708475-BS4 Hg0	1.647	17.4	32.6	209.80	209.81	25.7	0.020	OK	209.7980	0.00	-0.01	
F708475-BS4 MeH	534.268	62.0	124.9	209.81	209.81	75.5	3.633	OK	209.7980	0.00	-0.01	
F708475-BS4 HgI	75.592	142.4	193.5	209.81	209.82	162.3	0.341	OK	209.7980	0.00	-0.01	

#24: SEQ-CCV2



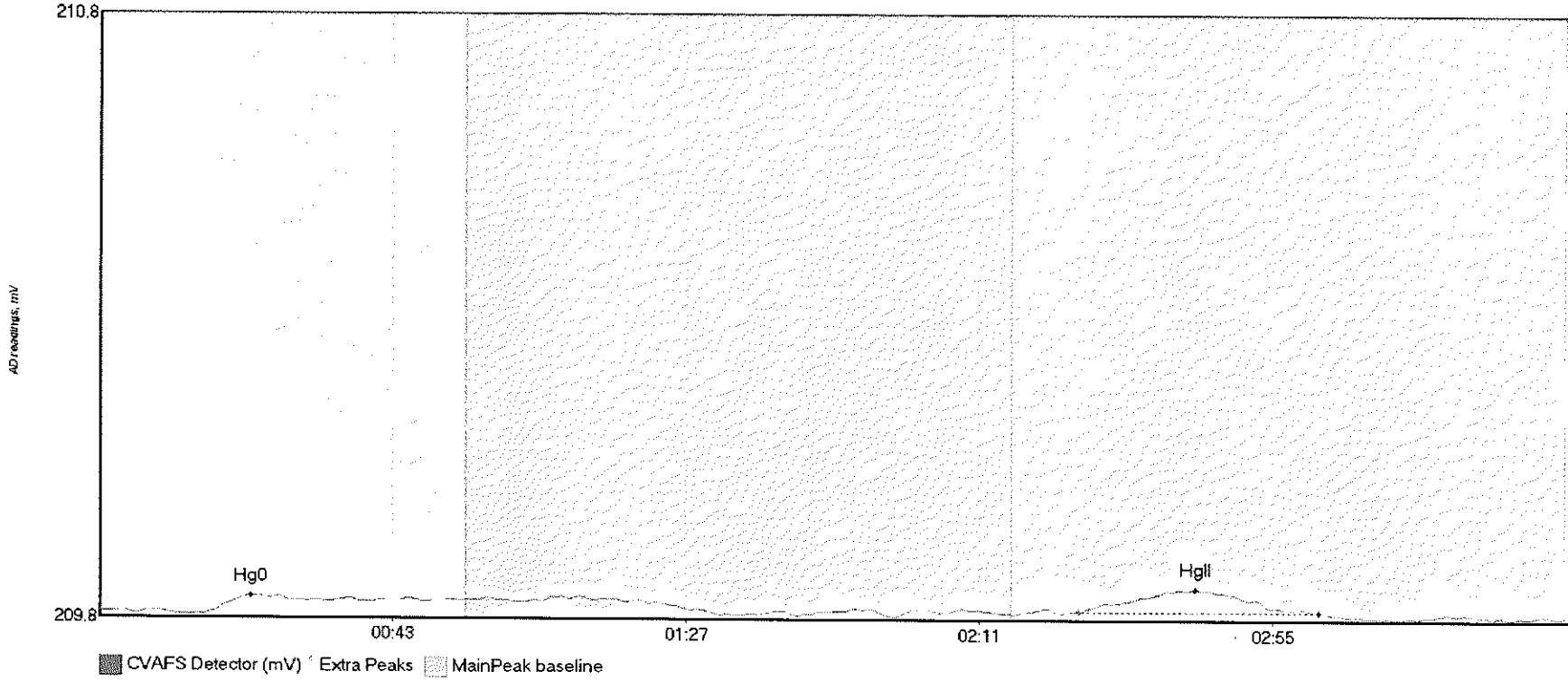
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV2 Hg0	4.359	12.8	55.0	209.79	209.81	45.7	0.028	CT	209.7849	0.00	0.00	
SEQ-CCV2 MeHg	167.540	63.3	115.8	209.81	209.80	75.7	1.151	OK	209.7849	0.00	0.00	
SEQ-CCV2 HgII	2.656	152.5	177.2	209.79	209.79	161.1	0.017	OK	209.7849	0.00	0.00	

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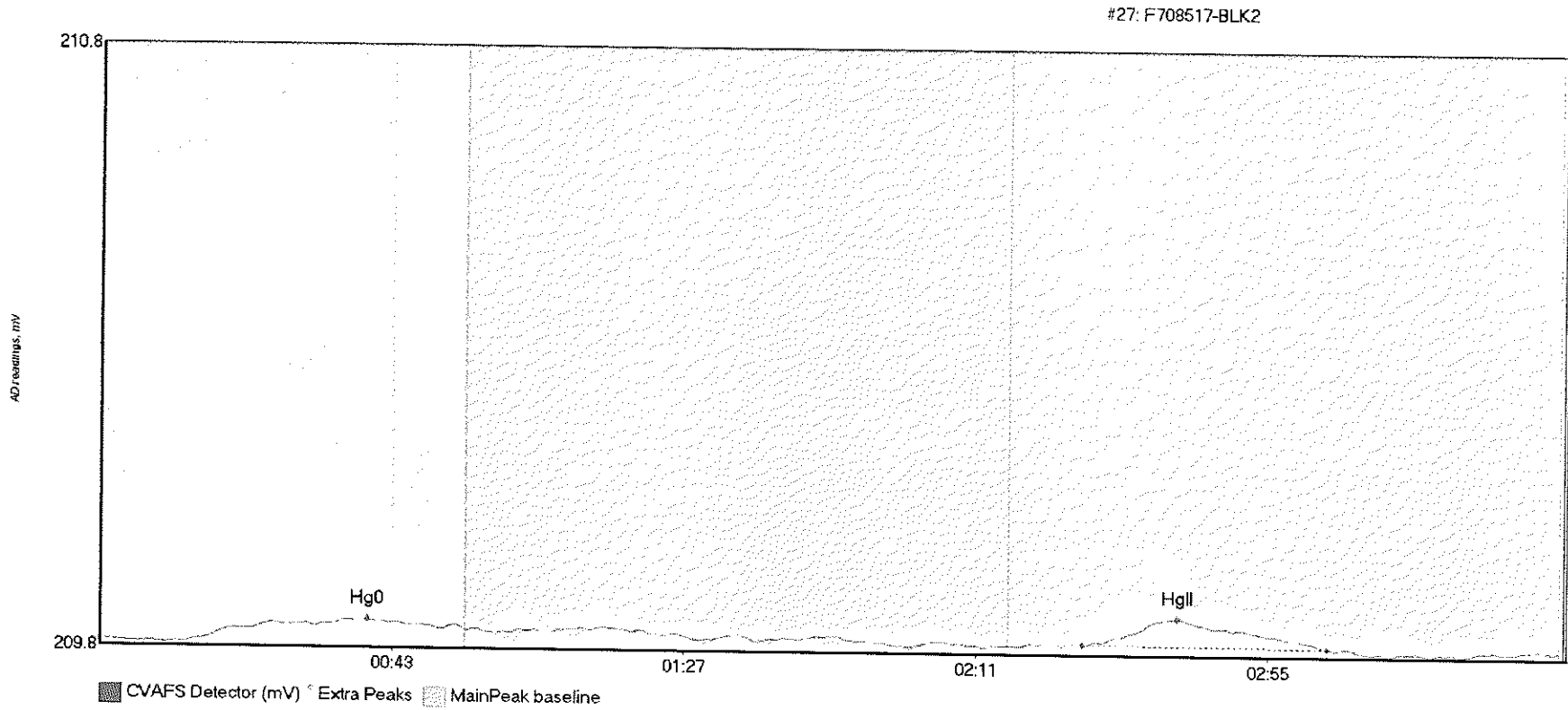
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB2 Hg0	2.621	13.5	55.0	209.79	209.82	54.5	0.027	CT	209.7914	0.00	0.01	
SEQ-CCB2 HgII	5.856	148.7	178.8	209.79	209.80	160.6	0.040	OK	209.7914	0.00	0.01	017

#26: F708517-BLK1



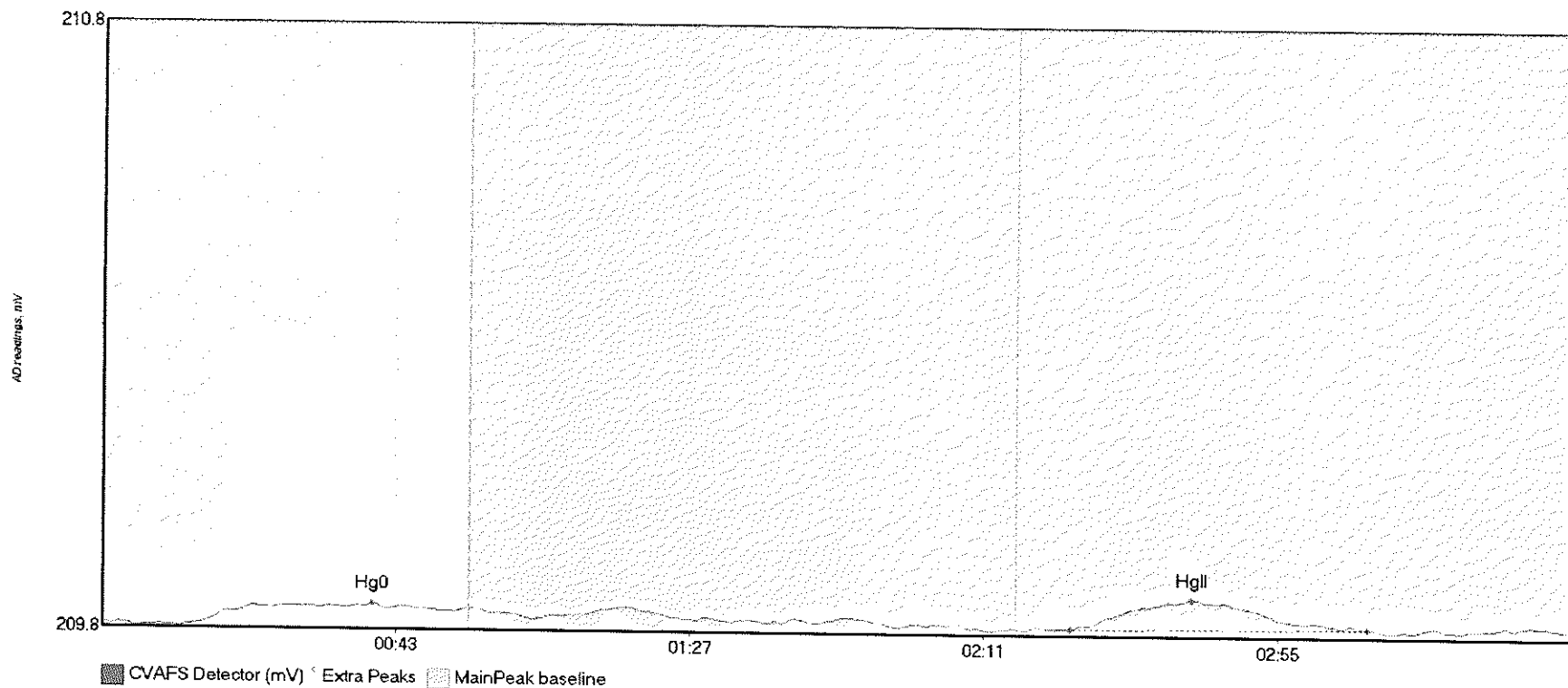
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708517-BLK1 Hg	3.492	16.9	48.8	209.79	209.81	22.7	0.026	OK	209.7920	0.00	-0.01	
F708517-BLK1 Hg	7.275	147.0	182.9	209.79	209.79	164.4	0.038	OK	209.7920	0.00	-0.01	017





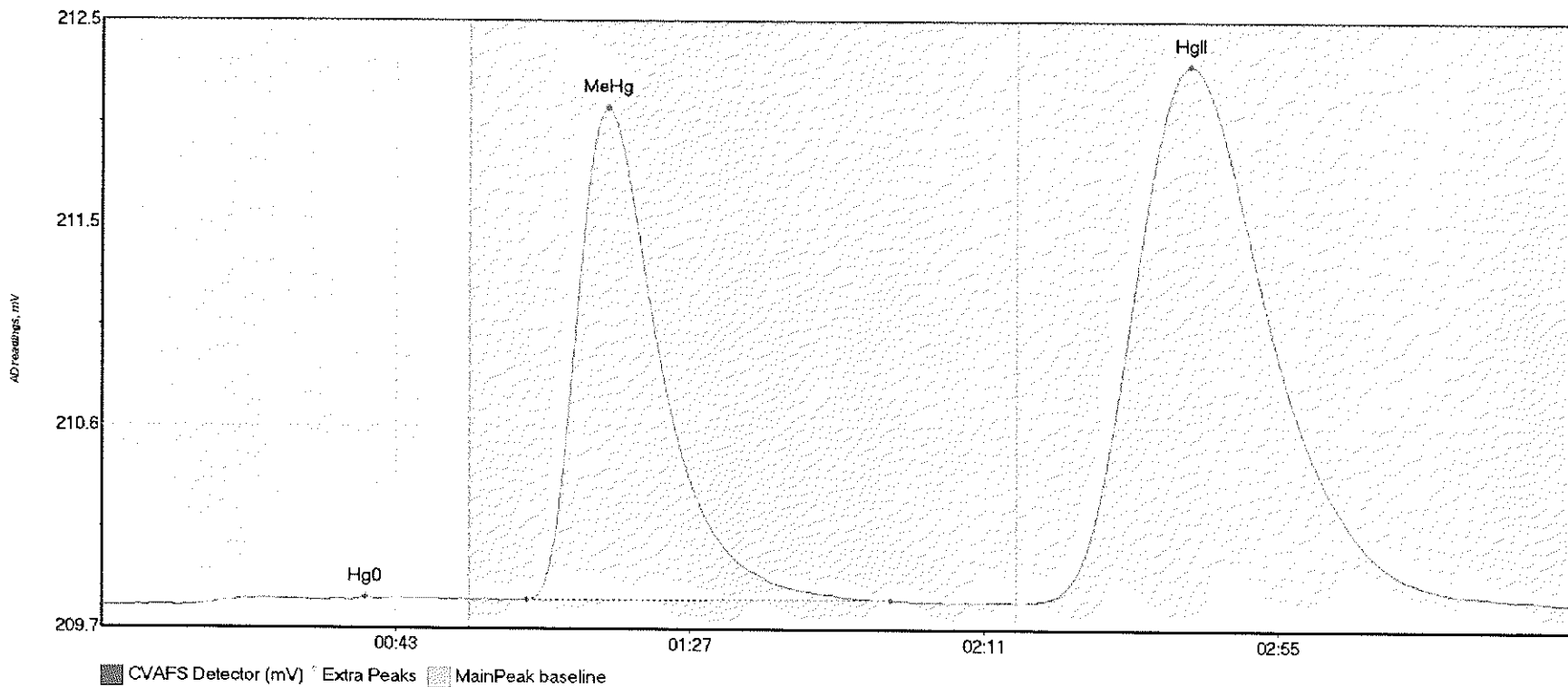
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
F708517-BLK2 Hg	5.664	15.3	55.0	209.79	209.81	40.3	0.033	CT	209.7885	0.00	0.00	
F708517-BLK2 Hg	8.546	148.1	184.9	209.79	209.79	162.3	0.044	OK	209.7885	0.00	0.00	017

#28: F708517-BLK3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708517-BLK3 Hg	5.471	14.5	52.9	209.78	209.81	40.5	0.034	OK	209.7825	0.00	0.01	
F708517-BLK3 Hg	10.569	145.0	189.4	209.79	209.79	163.2	0.050	OK	209.7825	0.00	0.01	017

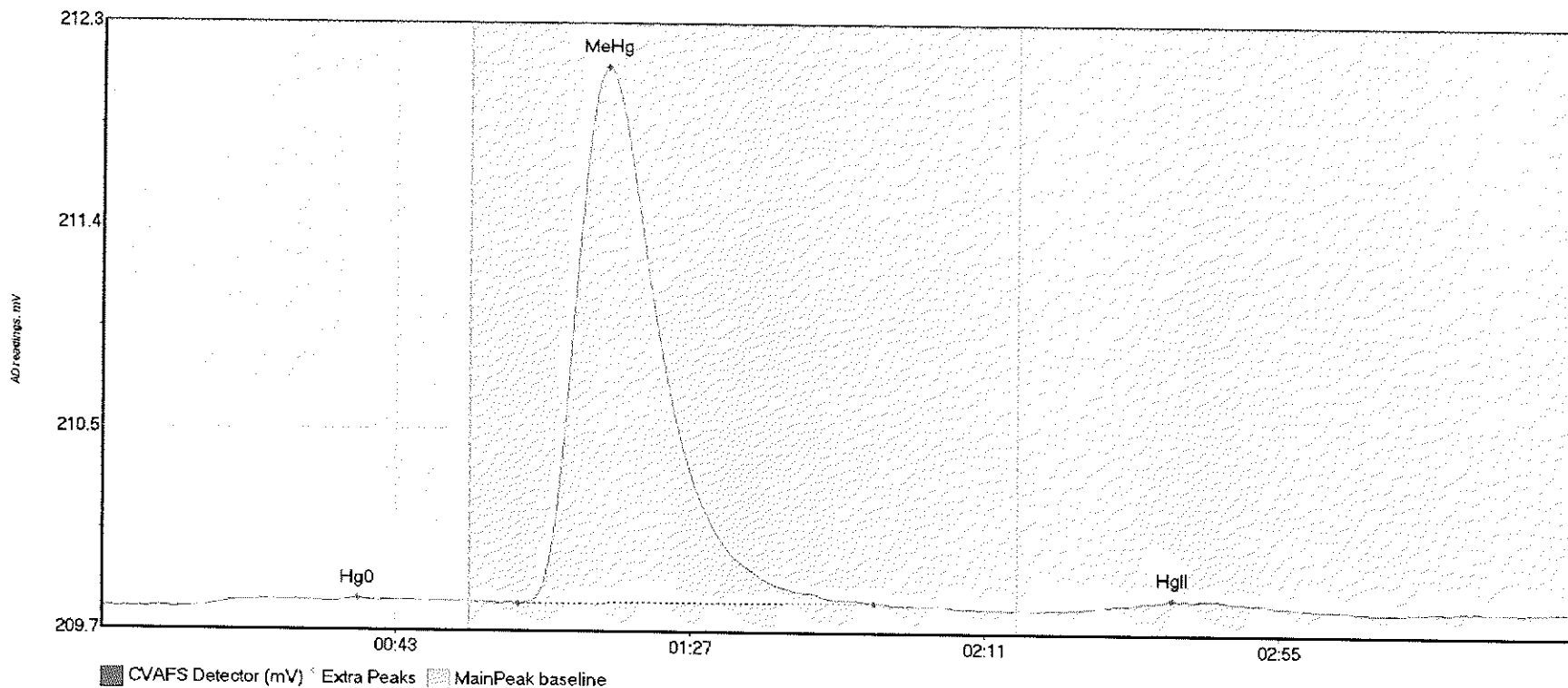
#29: F708517-BS1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708517-BS1 Hg0	5.489	12.9	55.0	209.78	209.81	39.5	0.035	CT	209.7775	0.00	0.03	
F708517-BS1 MeH	325.450	63.6	118.0	209.81	209.81	75.7	2.251	OK	209.7775	0.00	0.03	
F708517-BS1 HgI	575.369	138.9	217.9	209.80	209.81	162.8	2.453	OK	209.7775	0.00	0.03	

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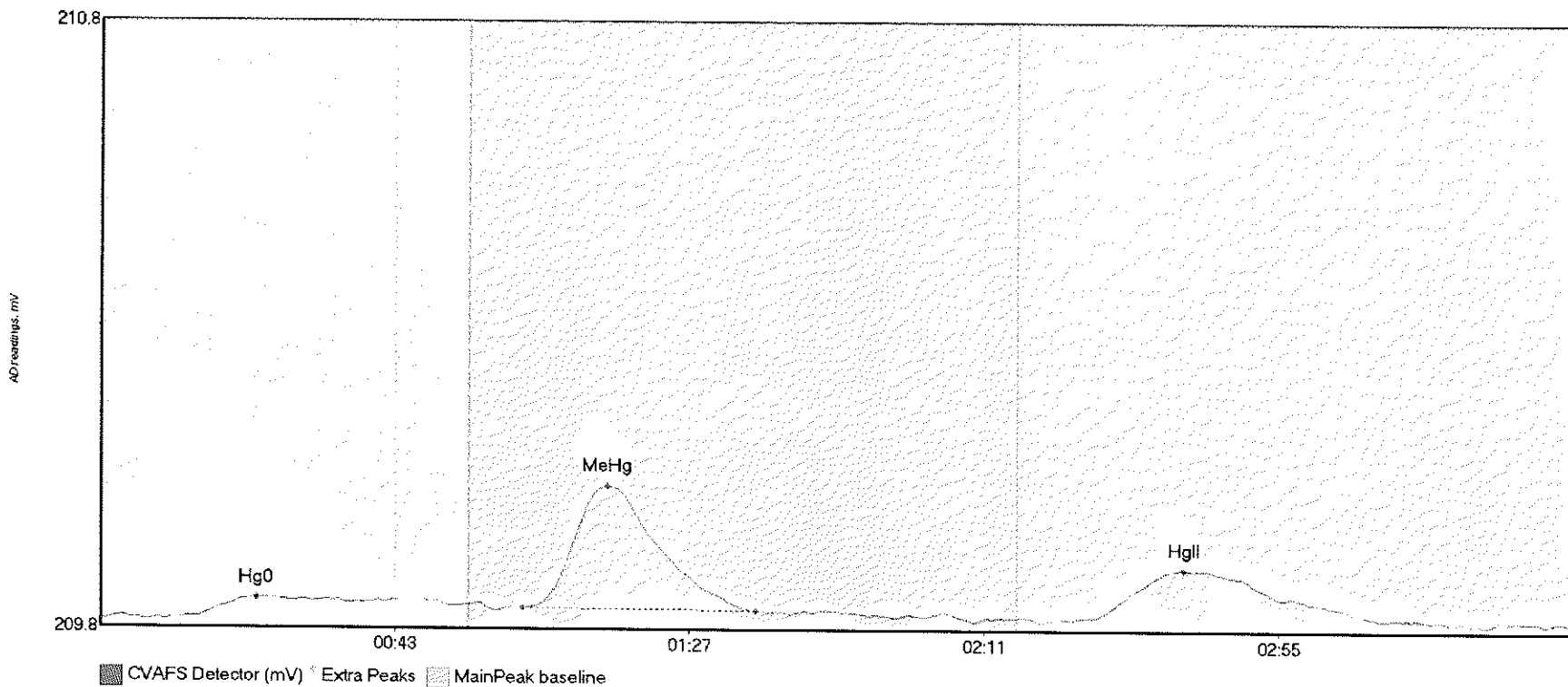
#30: F708517-BSD1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708517-BSD1 Hg	4.968	15.0	49.2	209.78	209.80	38.3	0.036	OK	209.7753	0.00	0.01	
F708517-BSD1 Me	330.947	62.3	115.5	209.80	209.81	75.5	2.271	OK	209.7753	0.00	0.01	
F708517-BSD1 Hg	9.124	143.6	182.1	209.78	209.78	160.0	0.046	OK	209.7753	0.00	0.01	

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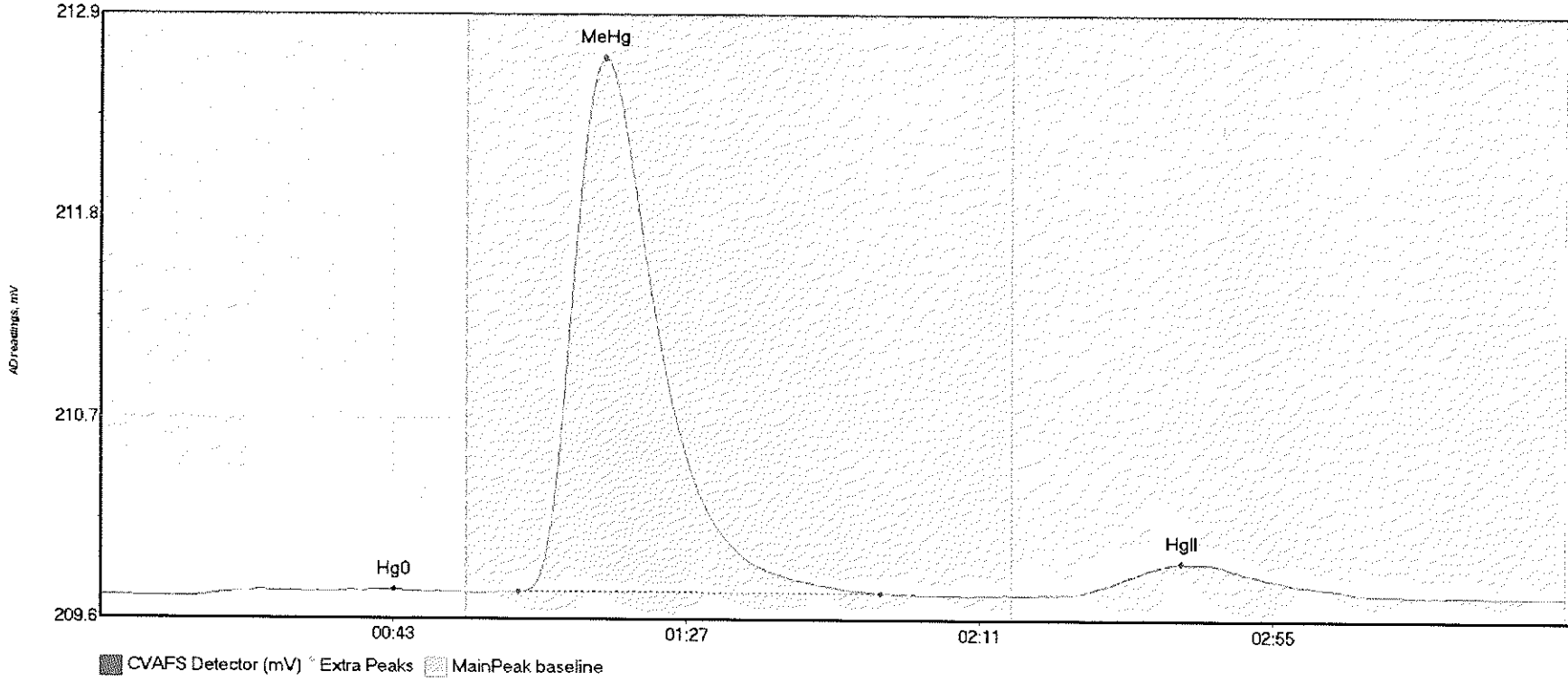
#31: F708517-DUP1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708517-DUP1 Hg	6.040	14.1	52.3	209.77	209.79	23.3	0.032	OK	209.7647	0.00	0.00	
F708517-DUP1 Me	29.309	63.0	97.9	209.78	209.78	75.8	0.202	OK	209.7647	0.00	0.00	
F708517-DUP1 Hg	18.342	148.1	191.3	209.77	209.77	161.7	0.080	OK	209.7647	0.00	0.00	

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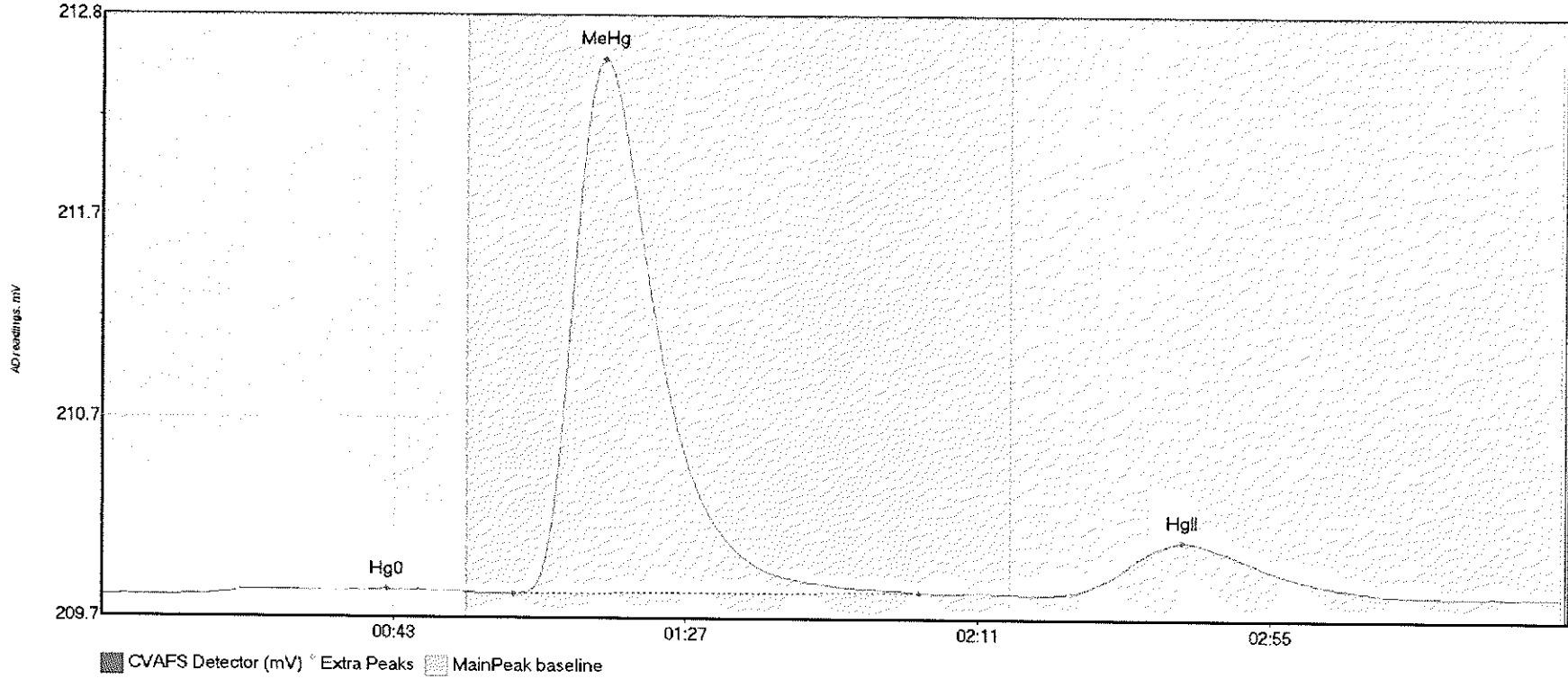
#32: F708517-MS1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708517-MS1 Hg0	6.398	12.8	54.1	209.76	209.78	44.2	0.039	OK	209.7633	0.00	0.00	
F708517-MS1 MeH	418.775	62.9	117.2	209.78	209.78	75.8	2.839	OK	209.7633	0.00	0.00	
F708517-MS1 HgI	38.932	143.5	191.7	209.77	209.78	162.3	0.170	OK	209.7633	0.00	0.00	

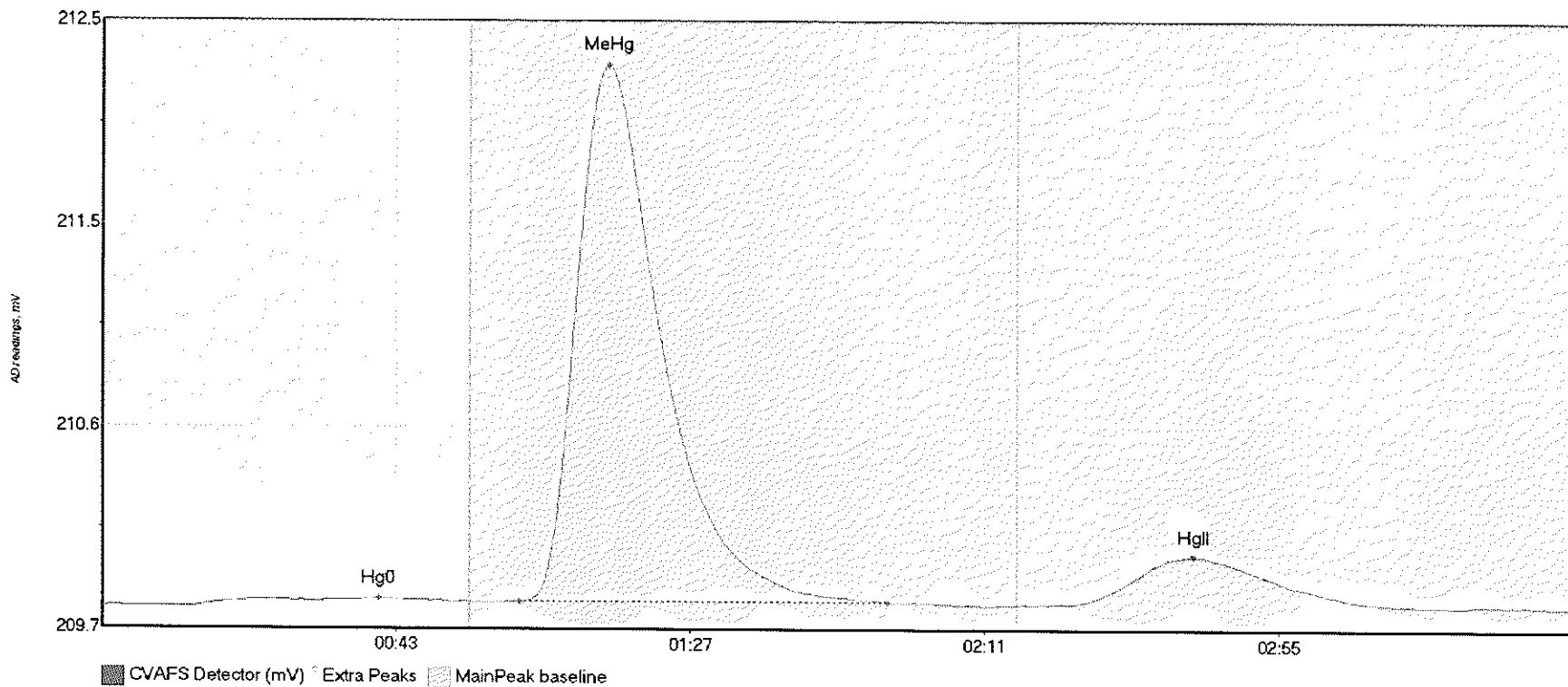
017

#33: F708517-MSD1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708517-MSD1 Hg	4.902	15.1	54.7	209.77	209.79	43.0	0.029	OK	209.7641	0.00	0.01	
F708517-MSD1 Me	409.921	62.0	123.1	209.78	209.79	75.8	2.765	OK	209.7641	0.00	0.01	
F708517-MSD1 Hg	58.662	144.8	192.8	209.78	209.79	162.8	0.272	OK	209.7641	0.00	0.01	

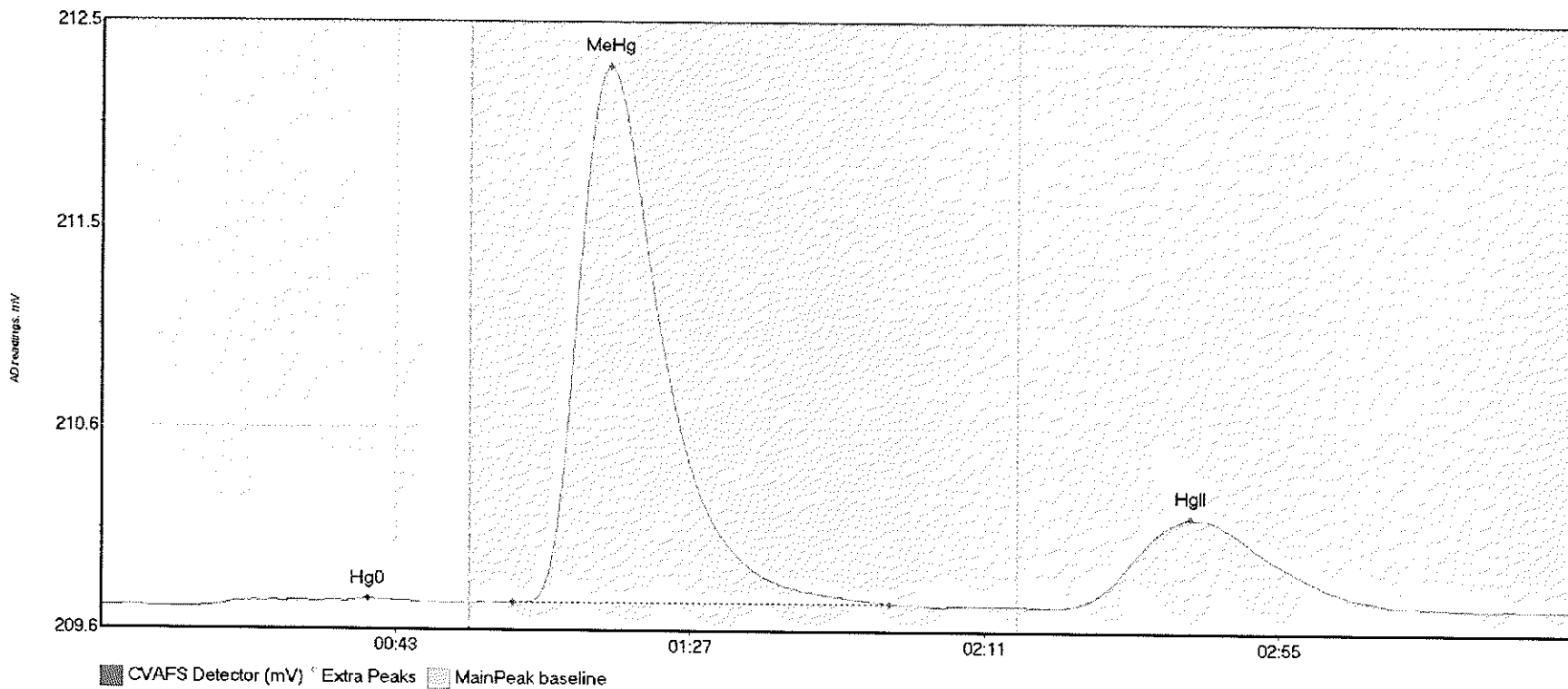
#34: F708517-MS2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708517-MS2 Hg0	6.770	12.9	52.4	209.75	209.78	41.5	0.038	OK	209.7544	0.00	0.00	
F708517-MS2 MeH	363.036	62.5	117.4	209.78	209.78	75.7	2.484	OK	209.7544	0.00	0.00	
F708517-MS2 HgI	48.675	145.2	191.5	209.77	209.77	163.3	0.222	OK	209.7544	0.00	0.00	



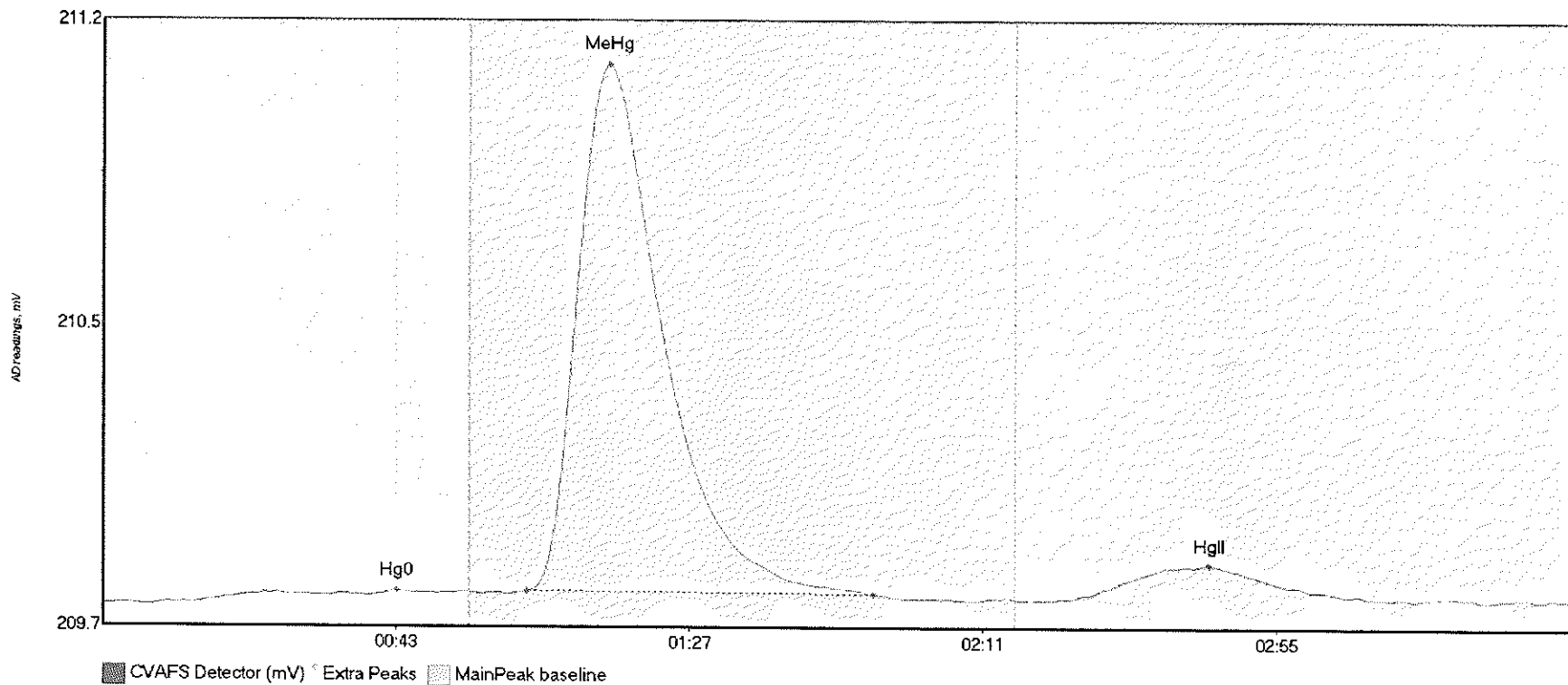
#35: F708517-MSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708517-MSD2 Hg	5.329	15.4	49.0	209.75	209.77	39.9	0.036	OK	209.7518	0.00	0.01	
F708517-MSD2 Me	370.091	61.5	117.7	209.77	209.77	75.9	2.524	OK	209.7518	0.00	0.01	
F708517-MSD2 Hg	94.624	142.9	194.2	209.76	209.77	162.8	0.421	OK	209.7518	0.00	0.01	

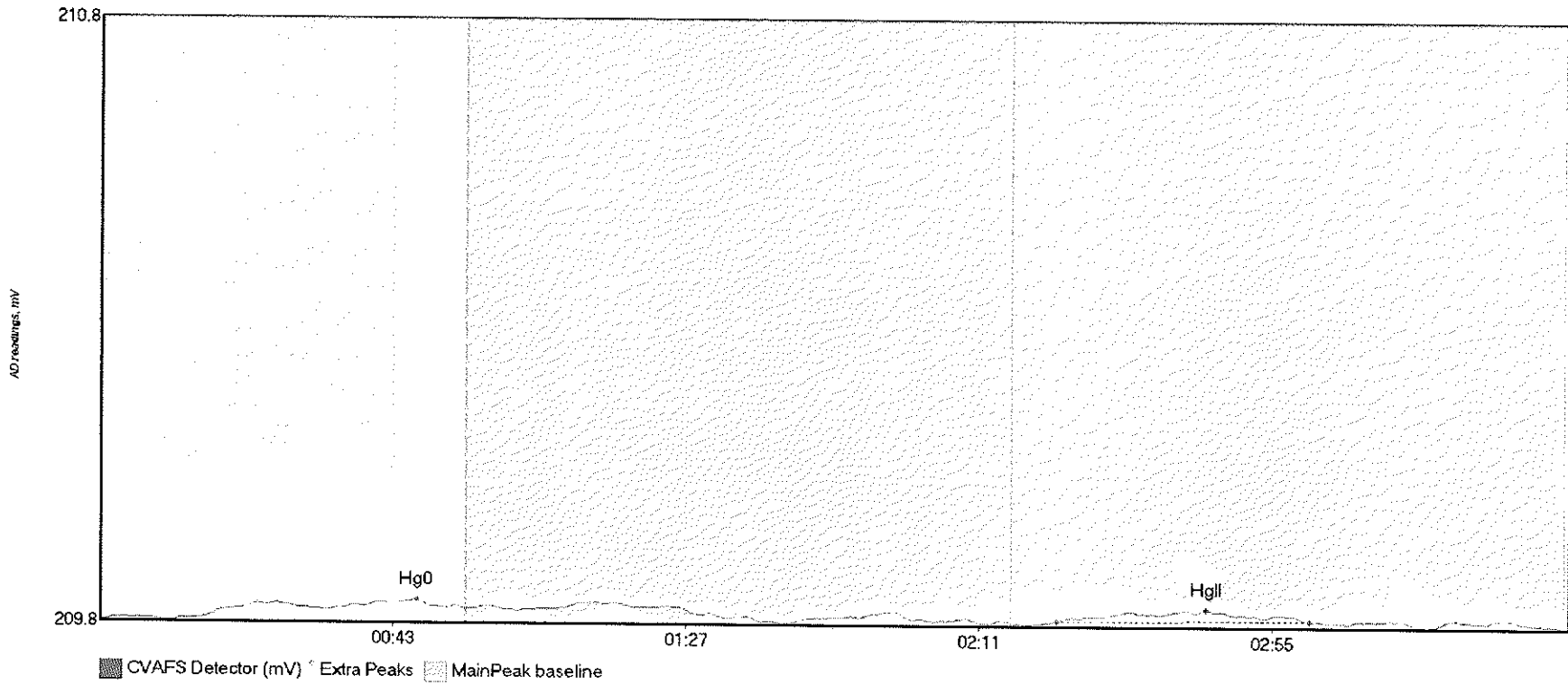
J17

#36: SEQ-CCV3



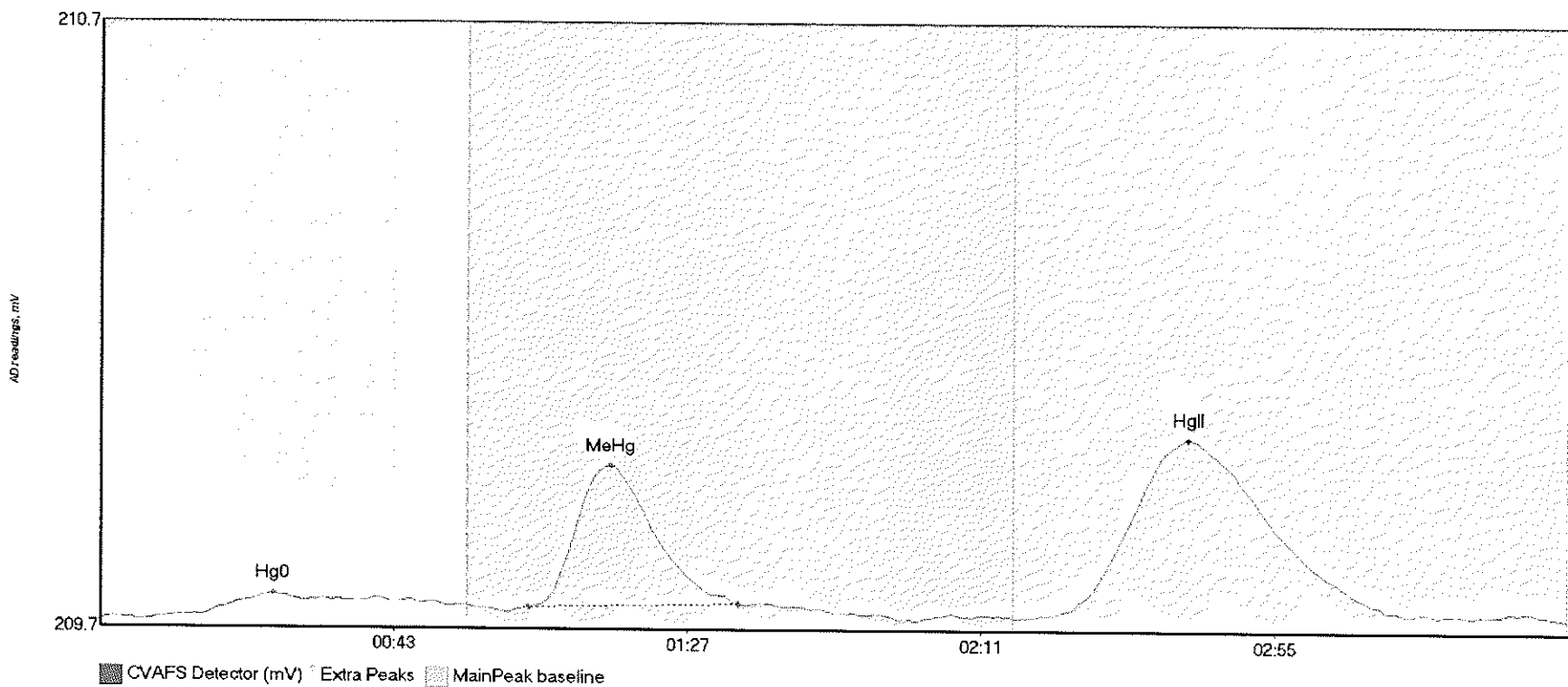
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV3 Hg0	2.976	14.0	50.4	209.75	209.77	44.1	0.030	OK	209.7430	0.00	0.01	
SEQ-CCV3 MeHg	198.179	63.6	115.6	209.78	209.77	75.9	1.337	OK	209.7430	0.00	0.01	
SEQ-CCV3 HgII	19.375	145.1	189.9	209.76	209.76	165.9	0.087	OK	209.7430	0.00	0.01	

#37: SEQ-CCB3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	4.611	14.5	55.0	209.76	209.78	47.6	0.031	CT	209.7544	0.00	0.00	
SEQ-CCB3 HgII	4.056	143.7	181.6	209.76	209.76	166.2	0.020	OK	209.7544	0.00	0.00	017

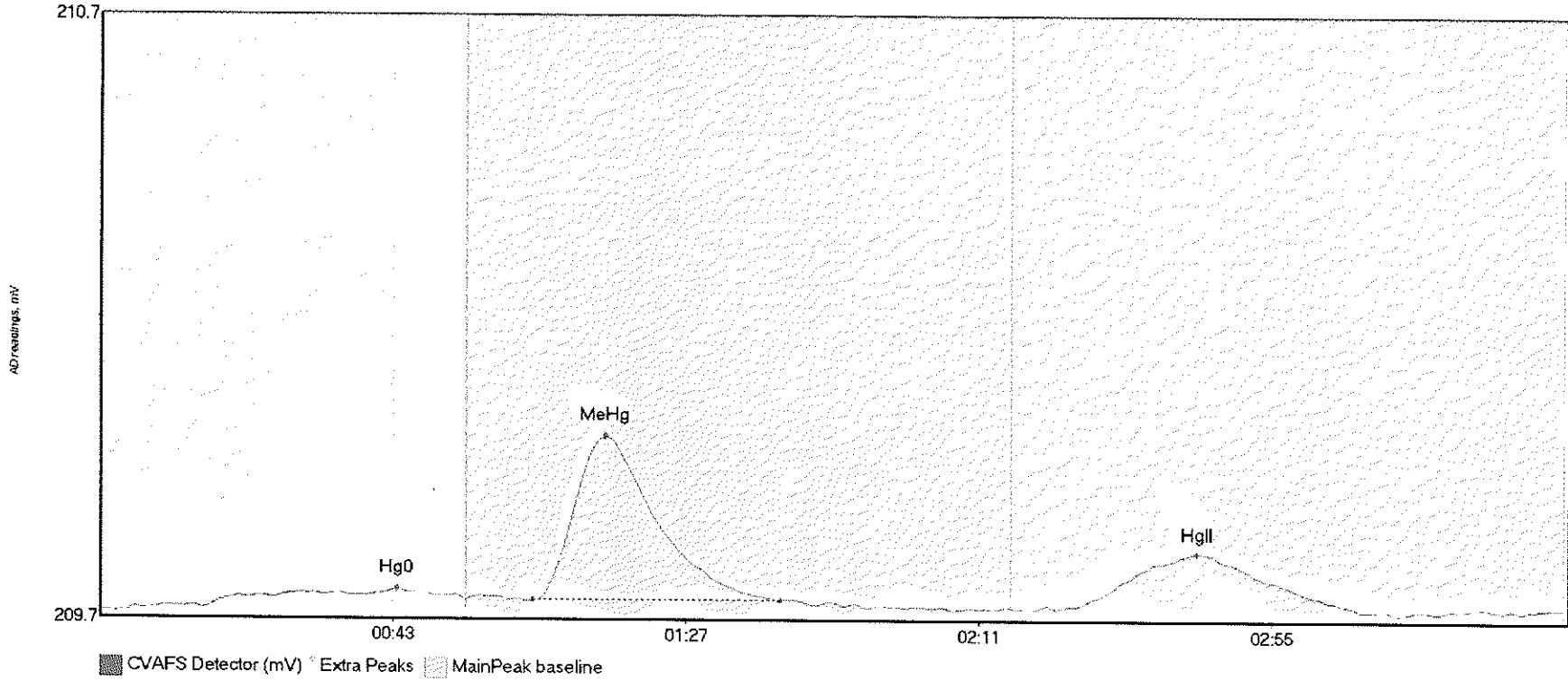
#38: 1708269-05



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708269-05 Hg0	5.920	9.5	52.7	209.76	209.78	25.9	0.038	OK	209.7543	0.00	0.01	
1708269-05 MeHg	30.866	64.2	95.6	209.78	209.78	76.4	0.234	OK	209.7543	0.00	0.01	
1708269-05 HgII	68.672	142.4	205.5	209.76	209.76	163.0	0.292	OK	209.7543	0.00	0.01	

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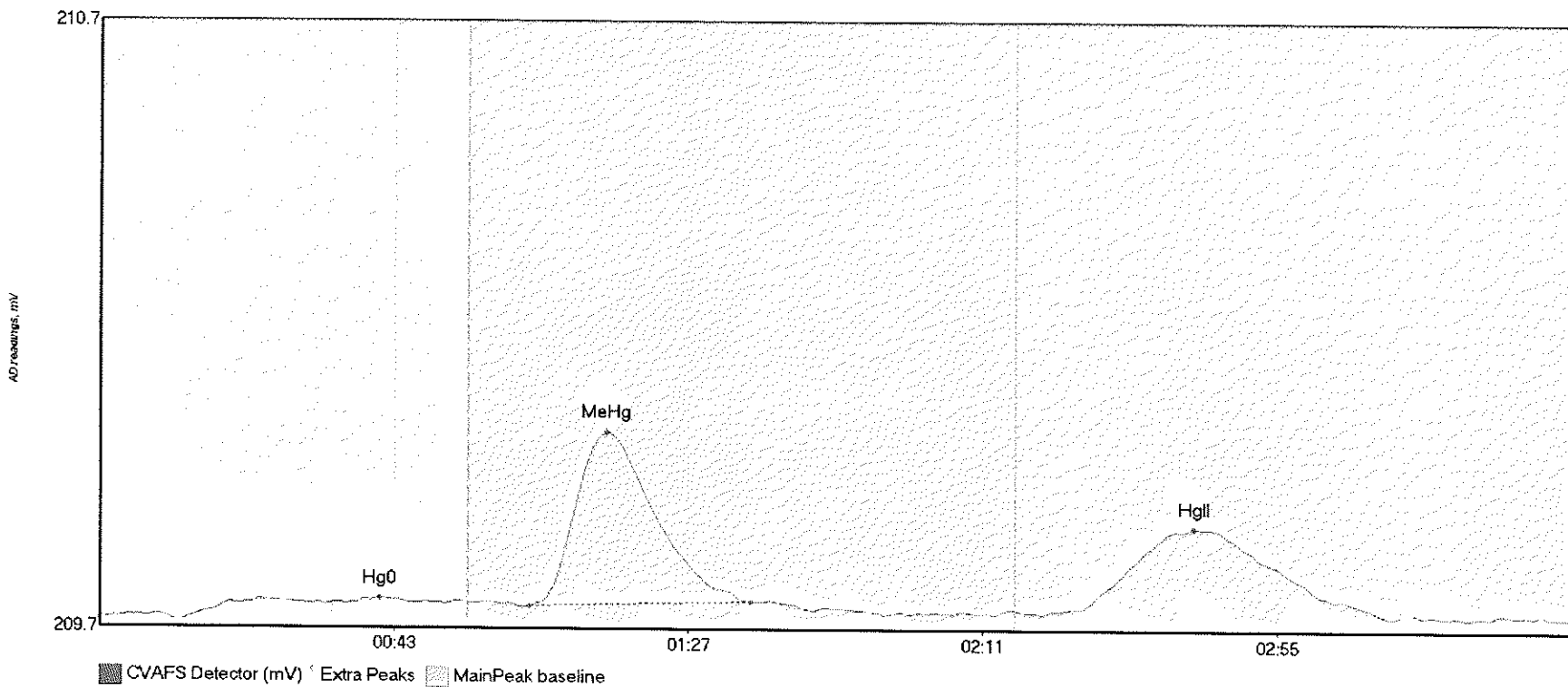
#39: 1708269-06



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708269-06 Hg0	5.461	6.6	54.9	209.75	209.77	44.6	0.034	OK	209.7493	0.00	0.01	
1708269-06 MeHg	38.077	65.0	102.1	209.77	209.77	75.9	0.271	OK	209.7493	0.00	0.01	
1708269-06 HgII	18.806	146.5	187.8	209.76	209.76	164.8	0.089	OK	209.7493	0.00	0.01	

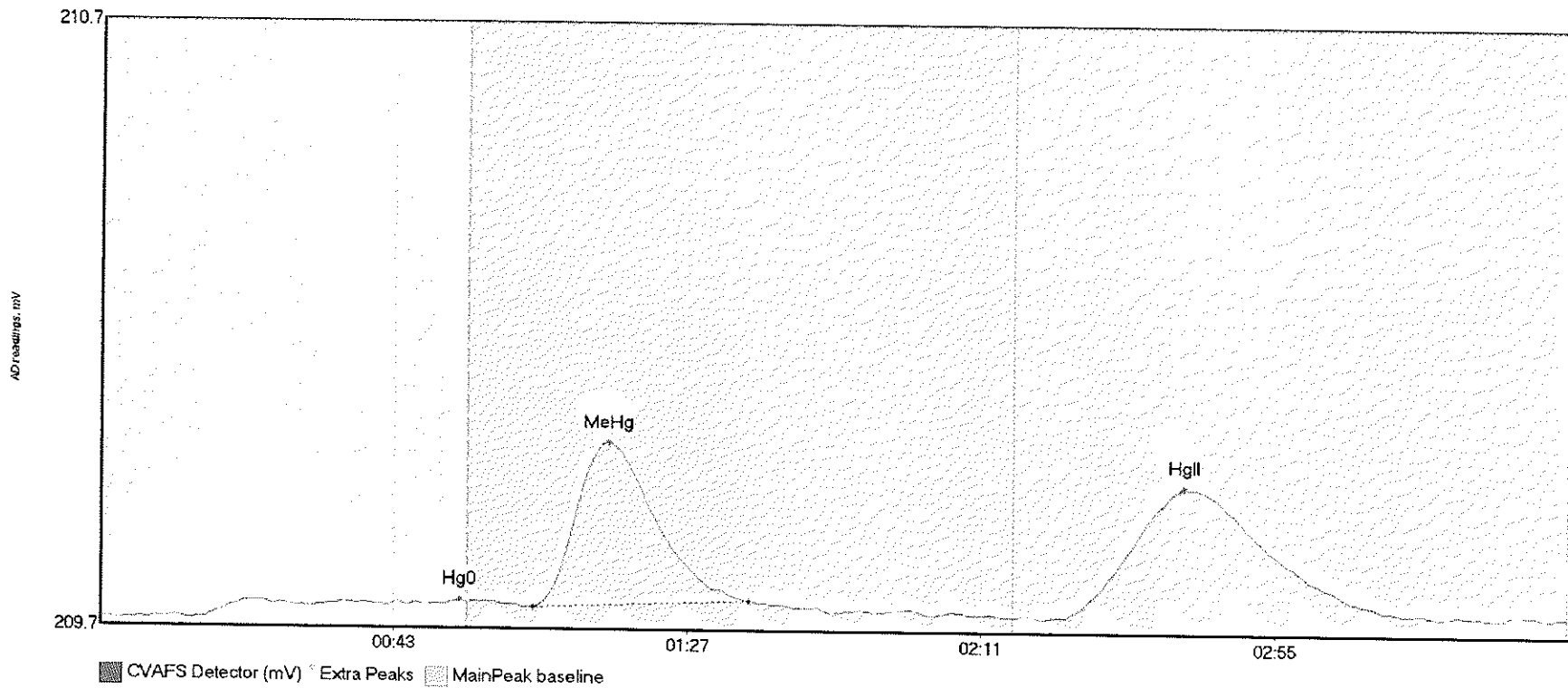
017

#40: 1708440-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708440-01 Hg0	5.326	12.2	51.6	209.74	209.77	41.8	0.037	OK	209.7449	0.00	0.00	
1708440-01 MeHg	38.598	64.2	97.3	209.76	209.77	75.8	0.287	OK	209.7449	0.00	0.00	
1708440-01 HgII	30.886	146.4	190.4	209.76	209.76	163.6	0.136	OK	209.7449	0.00	0.00	

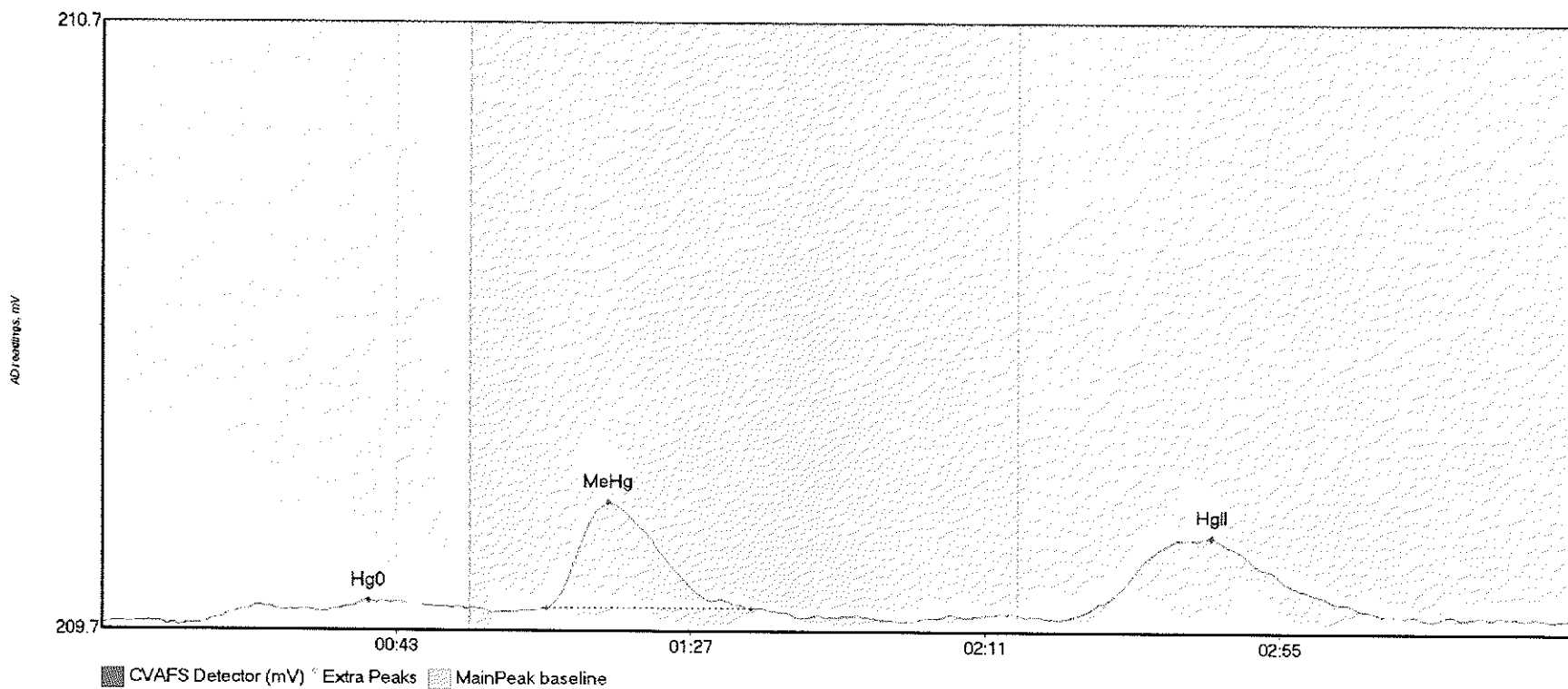
#41: 1708440-02



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708440-02 Hg0	3.926	15.2	55.0	209.75	209.78	53.9	0.032	CT	209.7454	0.00	0.02	
1708440-02 MeHg	36.344	64.8	97.1	209.77	209.78	76.2	0.272	OK	209.7454	0.00	0.02	
1708440-02 HgII	49.514	144.6	200.2	209.76	209.76	162.3	0.214	OK	209.7454	0.00	0.02	

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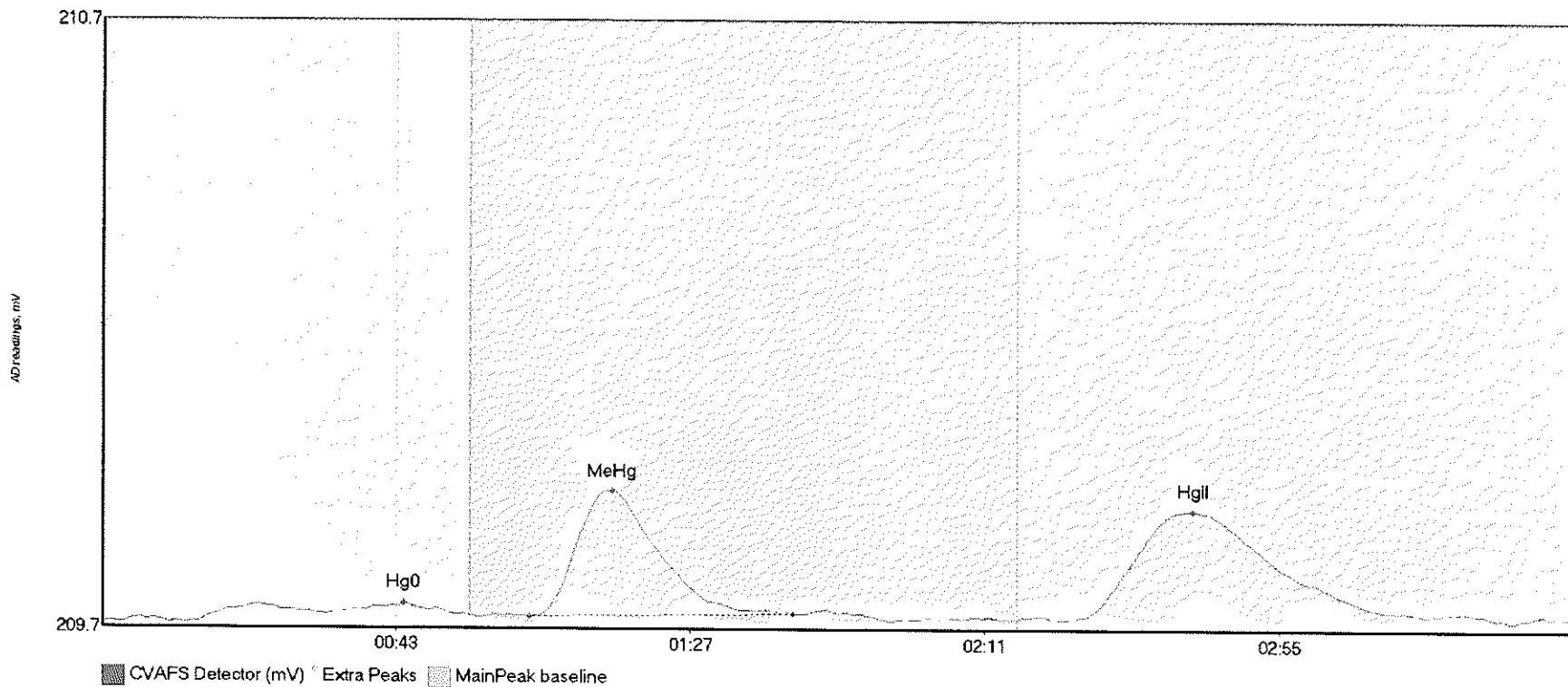
#42: 1708440-03



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708440-03 Hg0	5.065	15.2	54.6	209.75	209.78	39.9	0.038	OK	209.7530	0.00	0.01	
1708440-03 MeHg	22.972	66.4	97.0	209.78	209.78	75.8	0.173	OK	209.7530	0.00	0.01	
1708440-03 HgII	30.276	144.5	192.0	209.77	209.77	165.9	0.132	OK	209.7530	0.00	0.01	



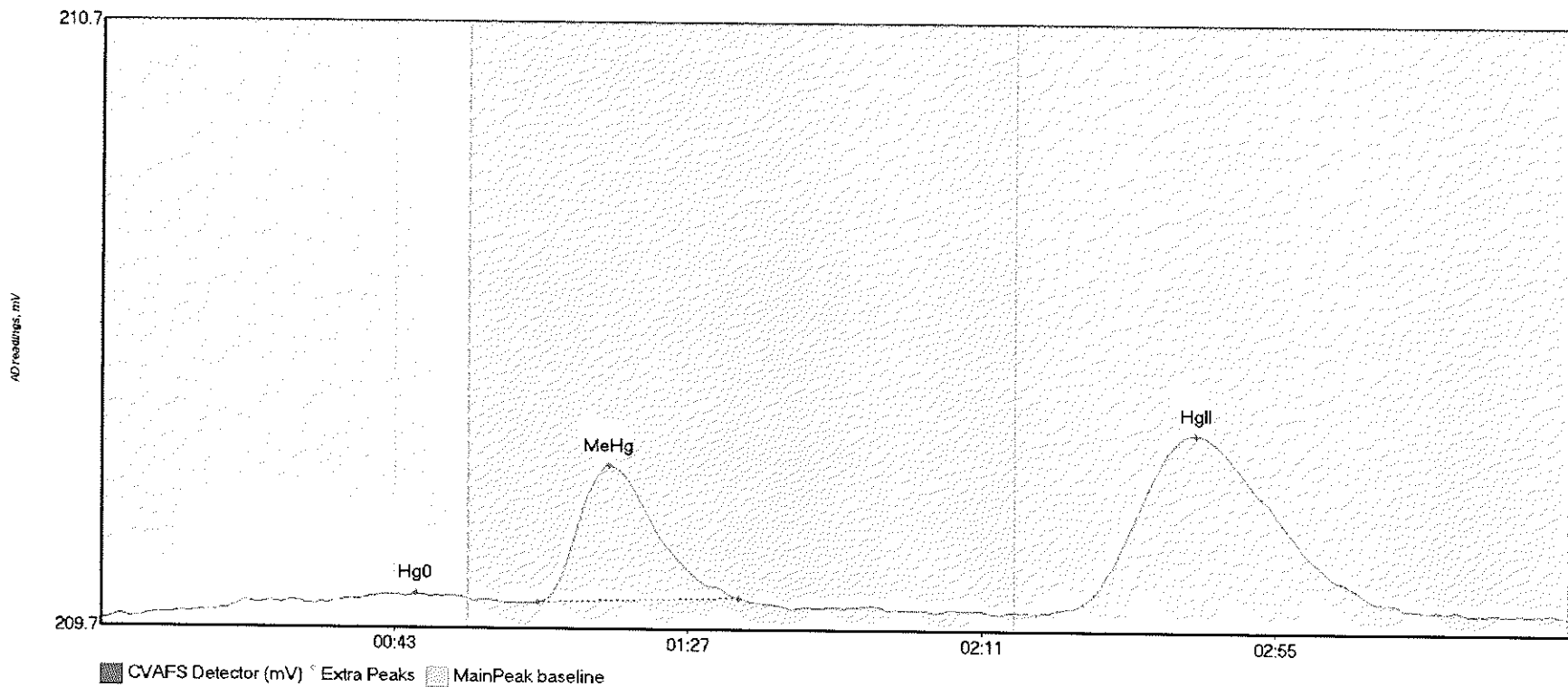
#43: 1708440-04



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708440-04 Hg0	5.738	14.2	55.0	209.76	209.77	45.2	0.030	CT	209.7556	0.00	0.01	
1708440-04 MeHg	28.574	63.8	103.3	209.77	209.77	76.3	0.207	OK	209.7556	0.00	0.01	
1708440-04 HgII	40.064	146.8	198.0	209.77	209.77	163.1	0.175	OK	209.7556	0.00	0.01	

017

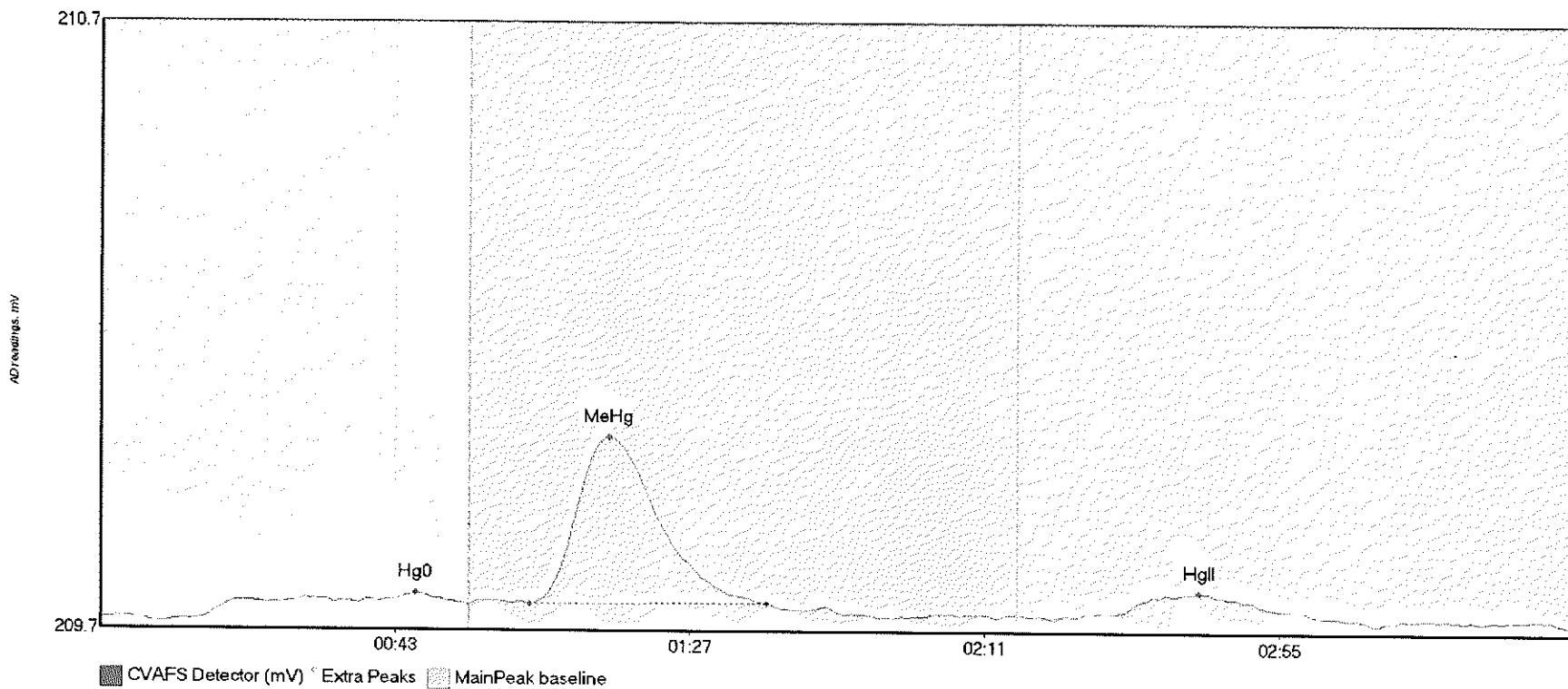
#44: 1708440-05



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708440-05 Hg0	4.364	5.8	55.0	209.75	209.78	47.1	0.040	CT	209.7449	0.00	0.02	
1708440-05 MeHg	29.248	65.5	95.6	209.78	209.78	76.2	0.225	OK	209.7449	0.00	0.02	
1708440-05 HgII	66.646	144.1	198.6	209.77	209.77	164.0	0.289	OK	209.7449	0.00	0.02	

017

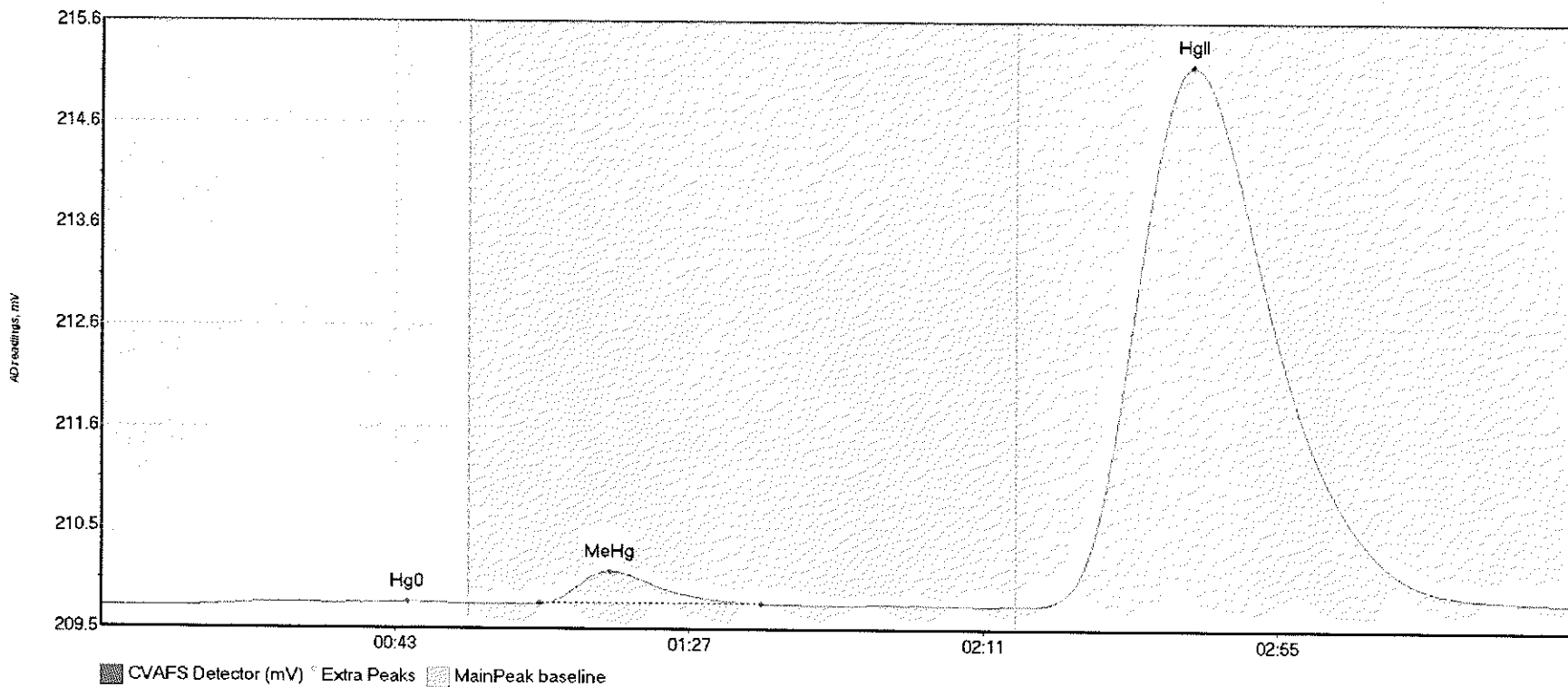
#45: 1708440-06



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708440-06 Hg0	6.581	15.3	54.9	209.75	209.77	47.0	0.041	OK	209.7493	0.00	-0.01	
1708440-06 MeHg	38.184	64.0	99.4	209.77	209.78	75.9	0.274	OK	209.7493	0.00	-0.01	
1708440-06 HgII	6.154	152.5	183.2	209.76	209.76	164.0	0.034	OK	209.7493	0.00	-0.01	

017

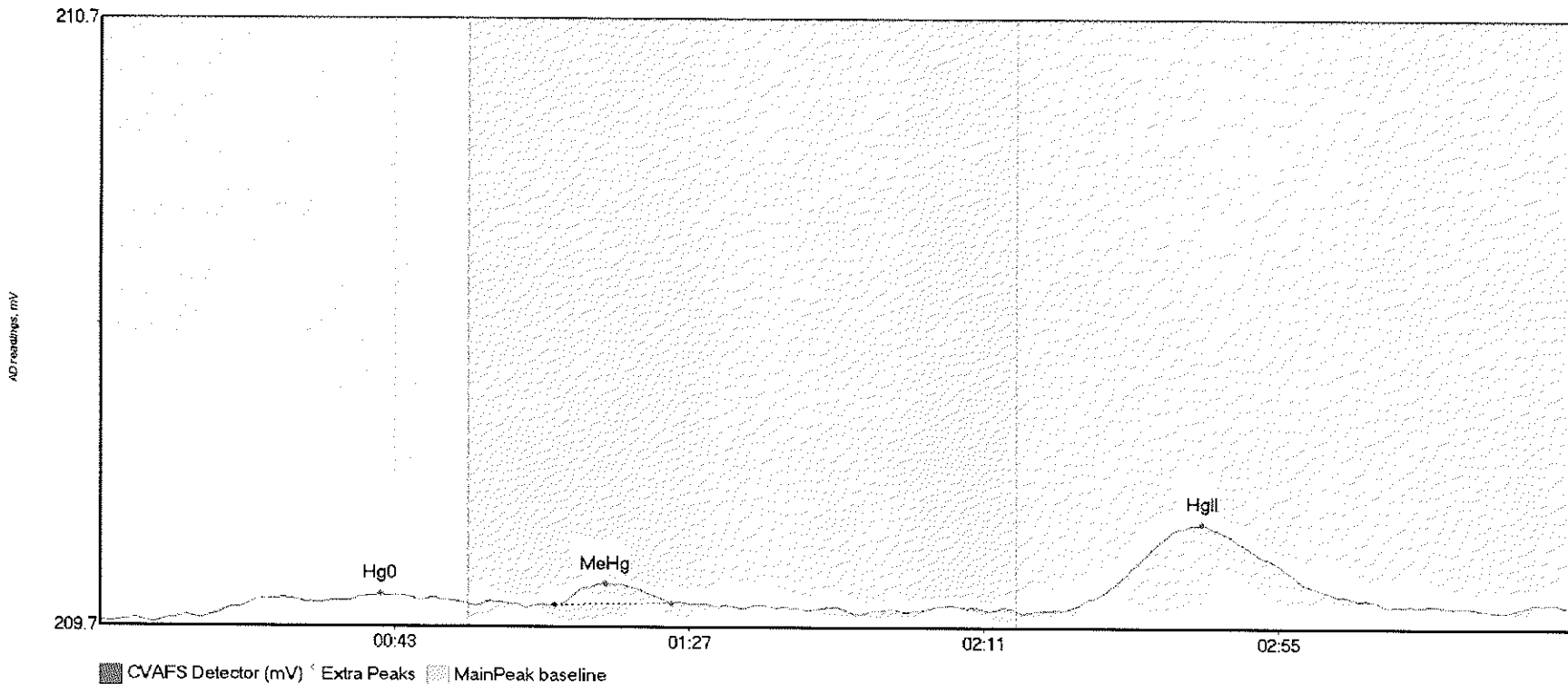
#46: 1708443-02



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708443-02 Hg0	7.281	13.7	52.7	209.75	209.78	45.9	0.046	OK	209.7487	0.00	0.06	
1708443-02 MeHg	44.624	65.6	98.8	209.78	209.78	76.1	0.326	OK	209.7487	0.00	0.06	
1708443-02 HgII	1281.756	140.3	219.2	209.77	209.80	163.2	5.434	OK	209.7487	0.00	0.06	

017

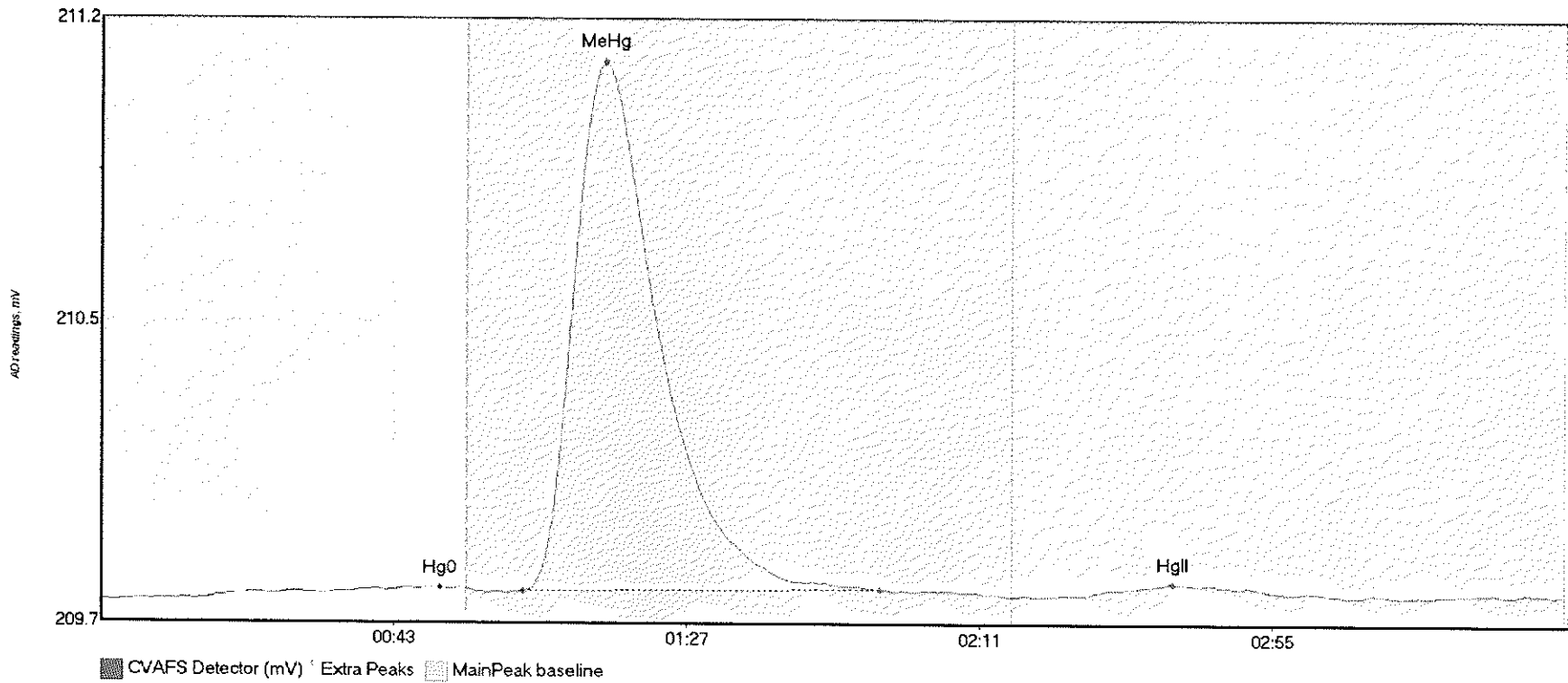
#47: 1708443-04



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708443-04 Hg0	6.359	15.2	55.0	209.75	209.77	41.9	0.039	CT	209.7456	0.00	0.03	
1708443-04 MeHg	3.708	67.9	85.3	209.77	209.78	75.5	0.038	OK	209.7456	0.00	0.03	
1708443-04 HgII	32.965	144.4	207.0	209.77	209.77	164.6	0.140	OK	209.7456	0.00	0.03	

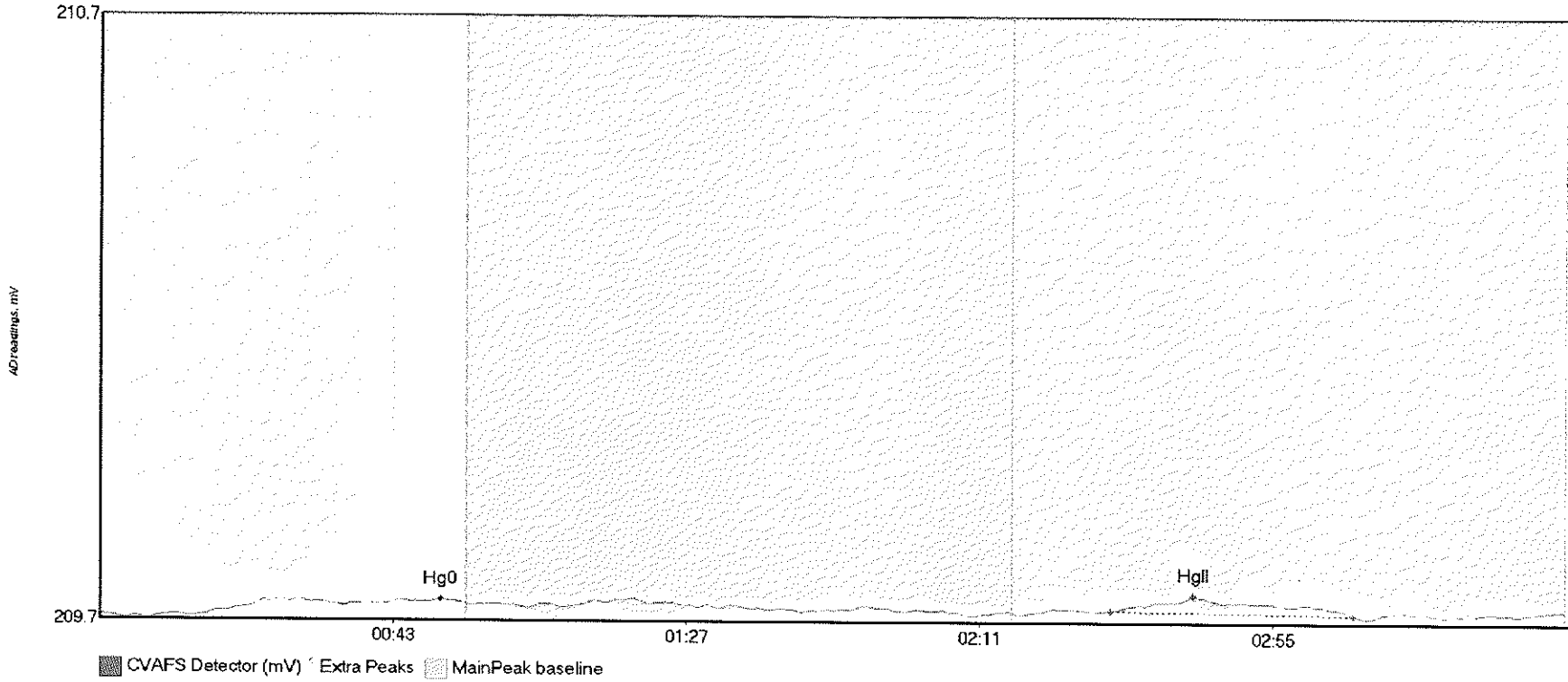
017

#48: SEQ-CCV4



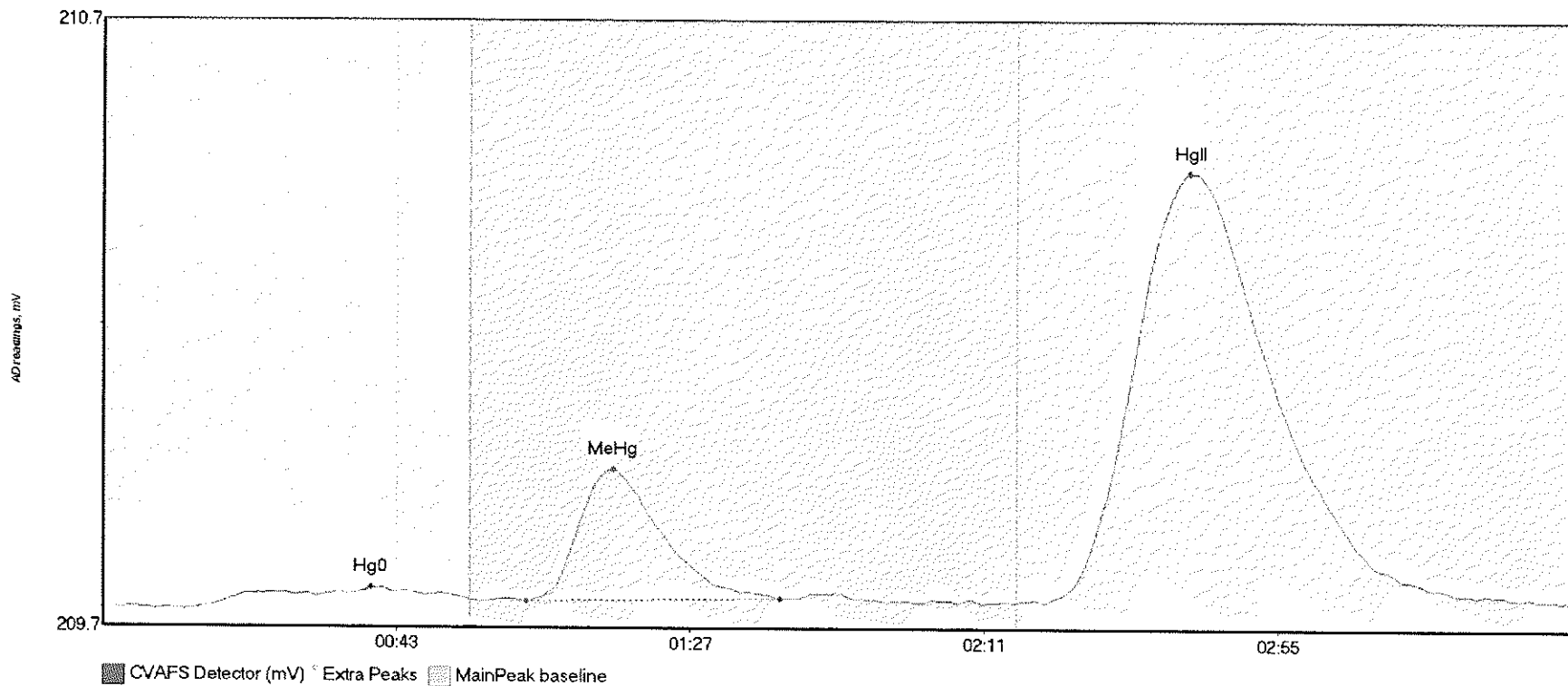
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	2.456	14.3	55.0	209.75	209.78	51.0	0.029	CT	209.7520	0.00	0.02	
SEQ-CCV4 MeHg	199.912	63.4	117.0	209.77	209.78	75.7	1.359	OK	209.7520	0.00	0.02	
SEQ-CCV4 HgII	6.362	147.5	184.9	209.77	209.77	161.0	0.032	OK	209.7520	0.00	0.02	

#49: SEQ-CCB4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	4.072	14.4	55.0	209.75	209.77	51.2	0.029	CF	209.7532	0.00	0.01	
SEQ-CCB4 HgII	5.313	151.6	188.0	209.76	209.76	164.0	0.026	OK	209.7532	0.00	0.01	017

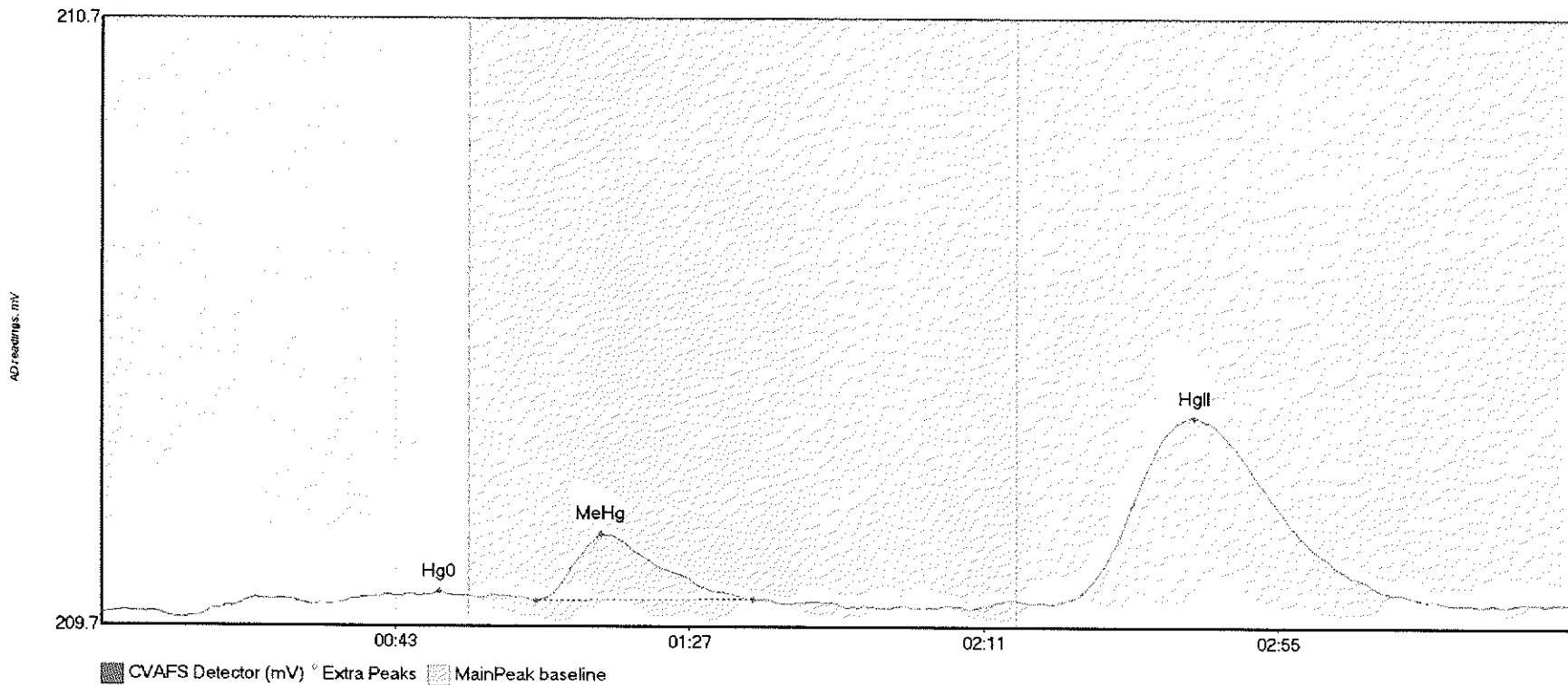
#50: 1708443-06



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1708443-06 Hg0	5.776	15.7	55.0	209.75	209.77	40.2	0.031	CT	209.7484	0.00	0.02	
1708443-06 MeHg	30.660	63.4	101.5	209.76	209.77	76.5	0.218	OK	209.7484	0.00	0.02	
1708443-06 HgII	167.995	141.1	211.6	209.76	209.77	162.8	0.709	OK	209.7484	0.00	0.02	

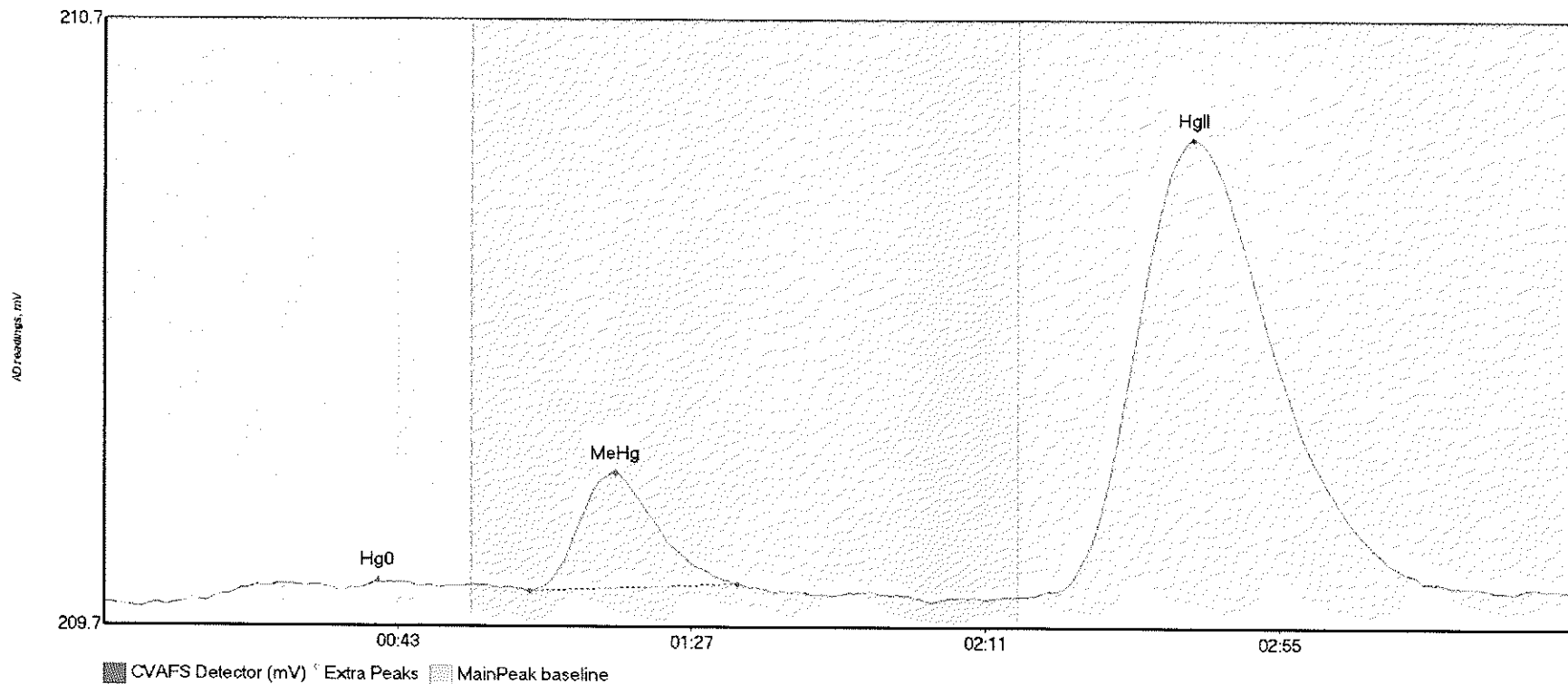


#51: 1708443-08



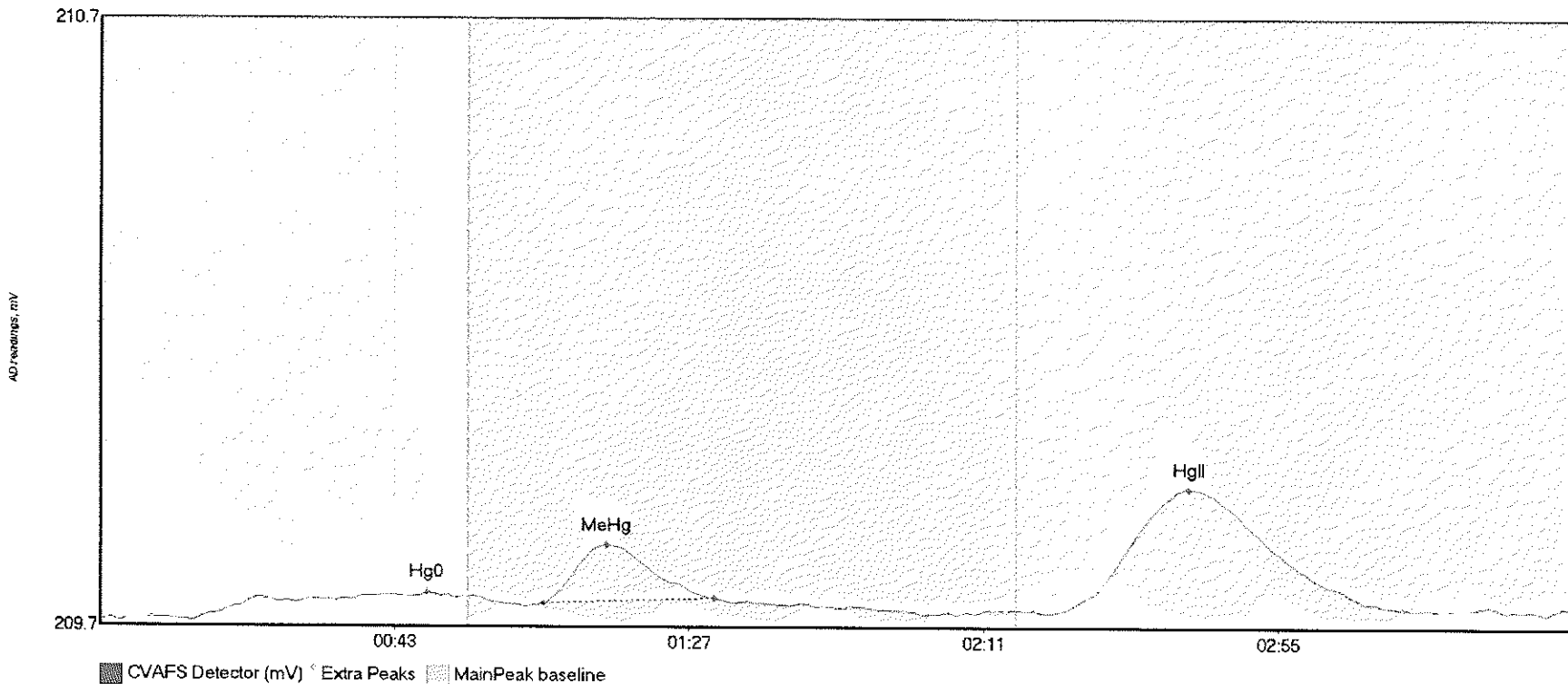
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708443-08 Hg0	4.420	14.1	55.0	209.74	209.77	50.6	0.041	CT	209.7434	0.00	0.02	
1708443-08 MeHg	15.593	65.0	97.5	209.76	209.77	74.8	0.110	OK	209.7434	0.00	0.02	
1708443-08 HgII	71.807	142.1	197.6	209.76	209.77	163.4	0.308	OK	209.7434	0.00	0.02	

#52: 1708443-10



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708443-10 Hg0	4.177	15.3	50.1	209.75	209.77	41.0	0.032	OK	209.7439	0.00	0.02	
1708443-10 MeHg	25.261	63.7	94.9	209.76	209.78	76.6	0.196	OK	209.7439	0.00	0.02	
1708443-10 HgII	180.044	139.3	210.9	209.76	209.76	163.1	0.752	OK	209.7439	0.00	0.02	

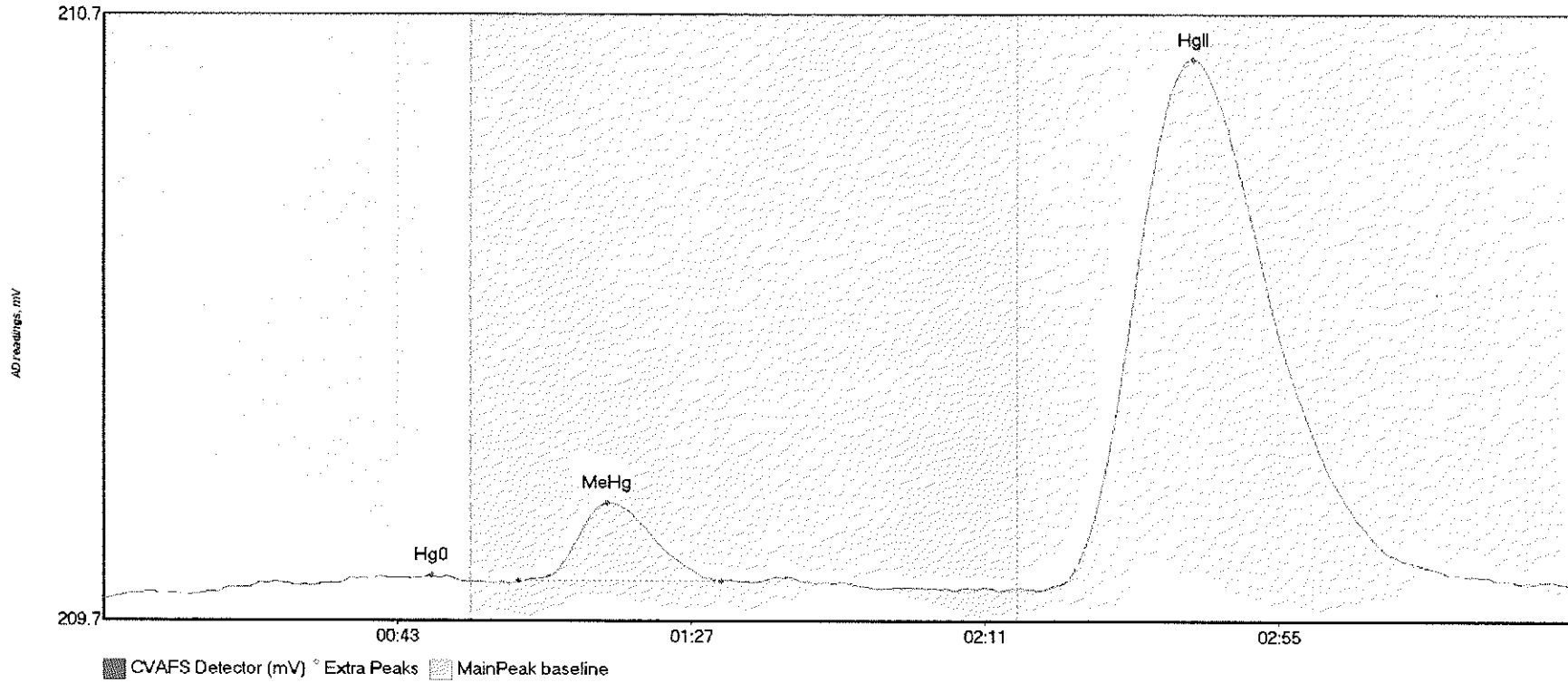
#53: 1708443-12



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708443-12 Hg0	5.599	13.7	53.3	209.73	209.77	48.8	0.046	OK	209.7367	0.00	0.02	
1708443-12 MeHg	11.776	66.3	91.8	209.76	209.77	75.8	0.097	OK	209.7367	0.00	0.02	
1708443-12 HgII	45.770	142.3	193.3	209.75	209.76	162.8	0.205	OK	209.7367	0.00	0.02	

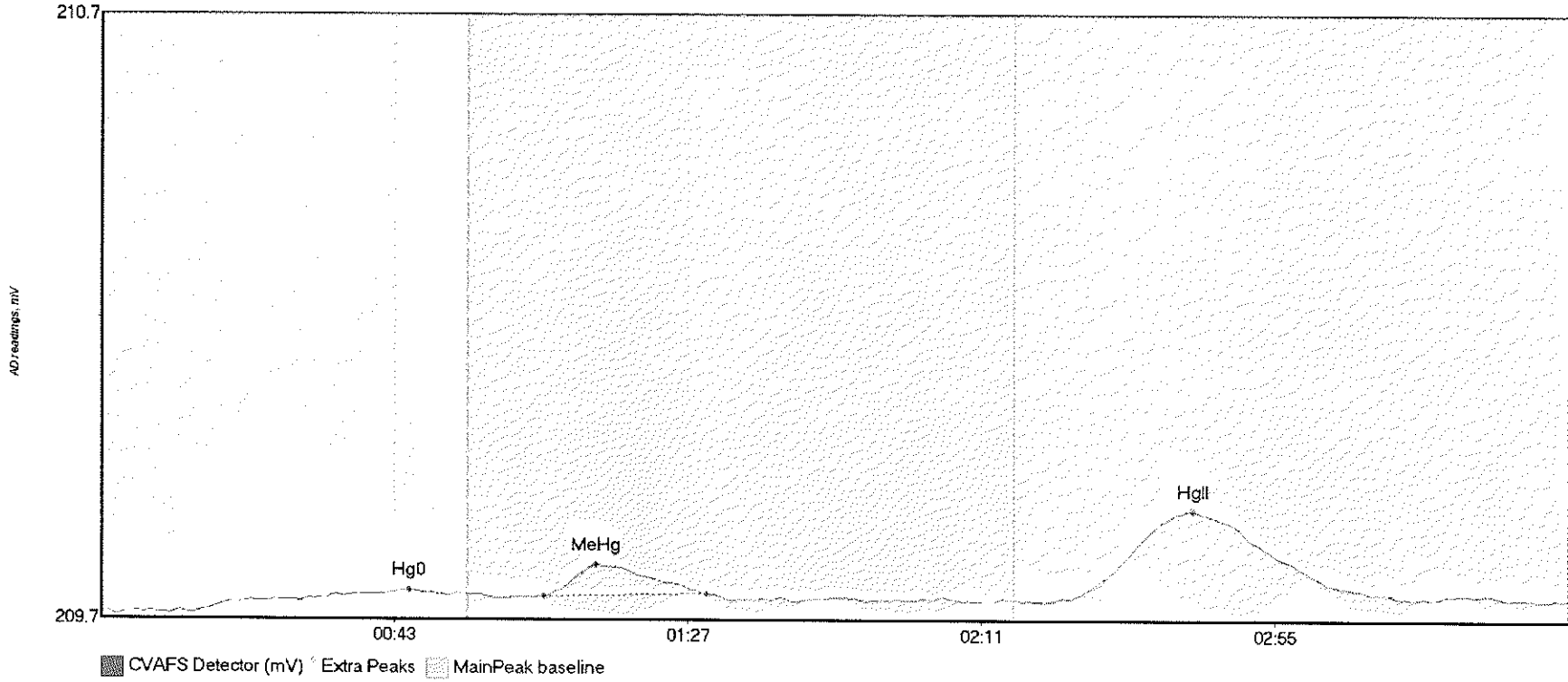
017

#54: 1708443-14



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708443-14 Hg0	4.419	0.8	54.6	209.73	209.76	49.1	0.037	OK	209.7299	0.00	0.02	
1708443-14 MeHg	16.663	62.2	92.4	209.76	209.76	75.5	0.130	OK	209.7299	0.00	0.02	
1708443-14 HgII	206.244	142.9	219.6	209.75	209.75	163.2	0.868	OK	209.7299	0.00	0.02	

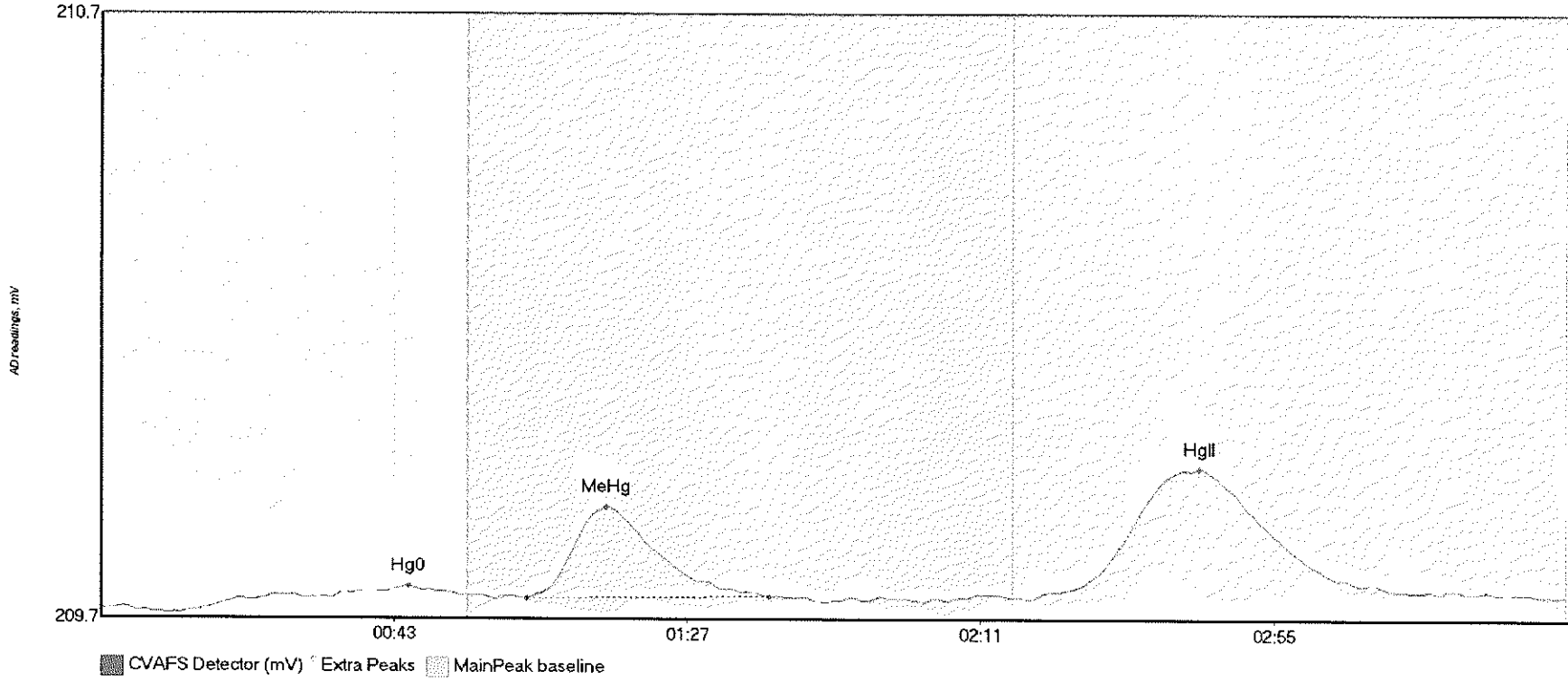
#55: 1708443-16



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708443-16 Hg0	4.033	13.5	52.0	209.72	209.75	46.3	0.039	OK	209.7264	0.00	0.02	
1708443-16 MeHg	6.553	66.4	90.8	209.75	209.76	74.3	0.053	OK	209.7264	0.00	0.02	
1708443-16 HgII	32.765	145.3	194.3	209.75	209.75	163.8	0.147	OK	209.7264	0.00	0.02	

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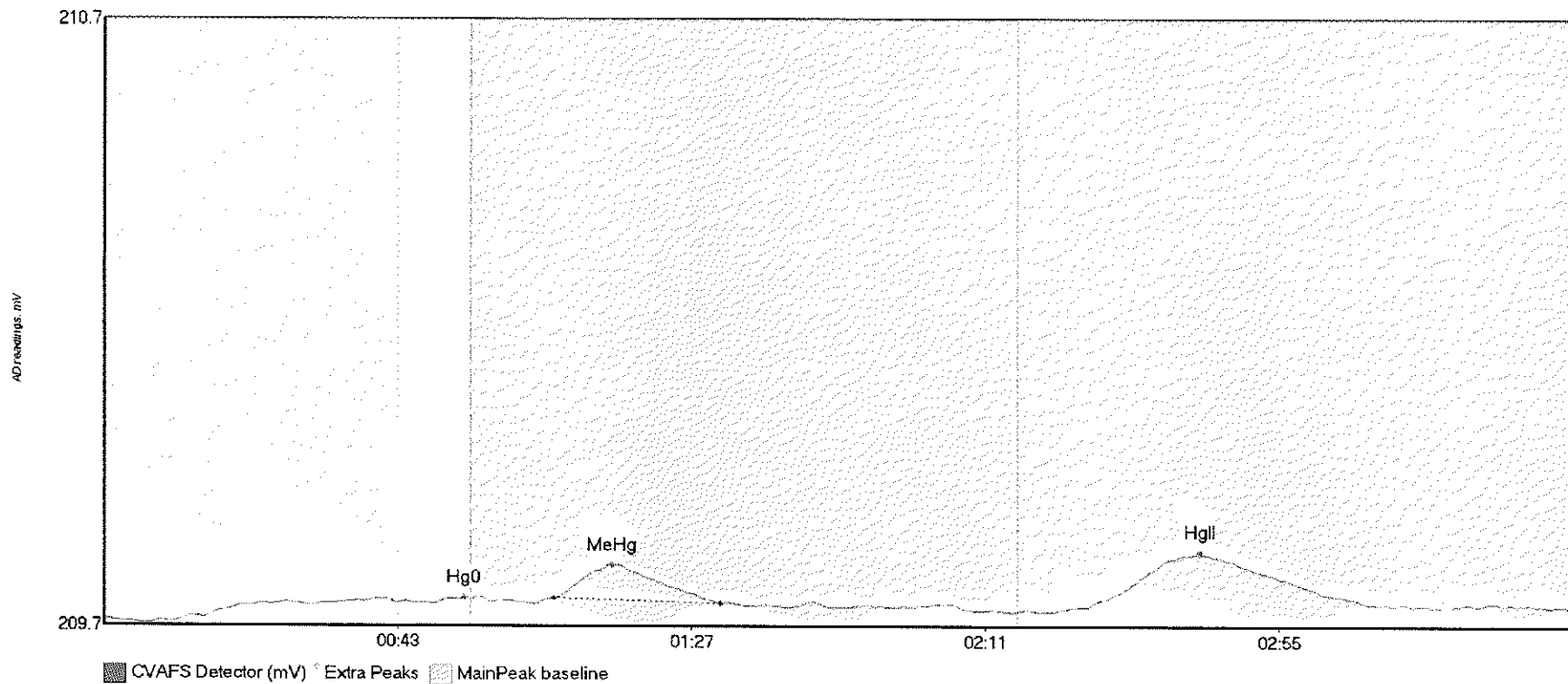
#56: 1708443-18



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708443-18 Hg0	4.366	15.7	54.0	209.73	209.75	46.1	0.036	OK	209.7277	0.00	0.02	
1708443-18 MeHg	21.362	63.8	100.3	209.75	209.75	75.9	0.151	OK	209.7277	0.00	0.02	
1708443-18 HgII	51.383	139.4	215.3	209.74	209.75	164.8	0.216	OK	209.7277	0.00	0.02	

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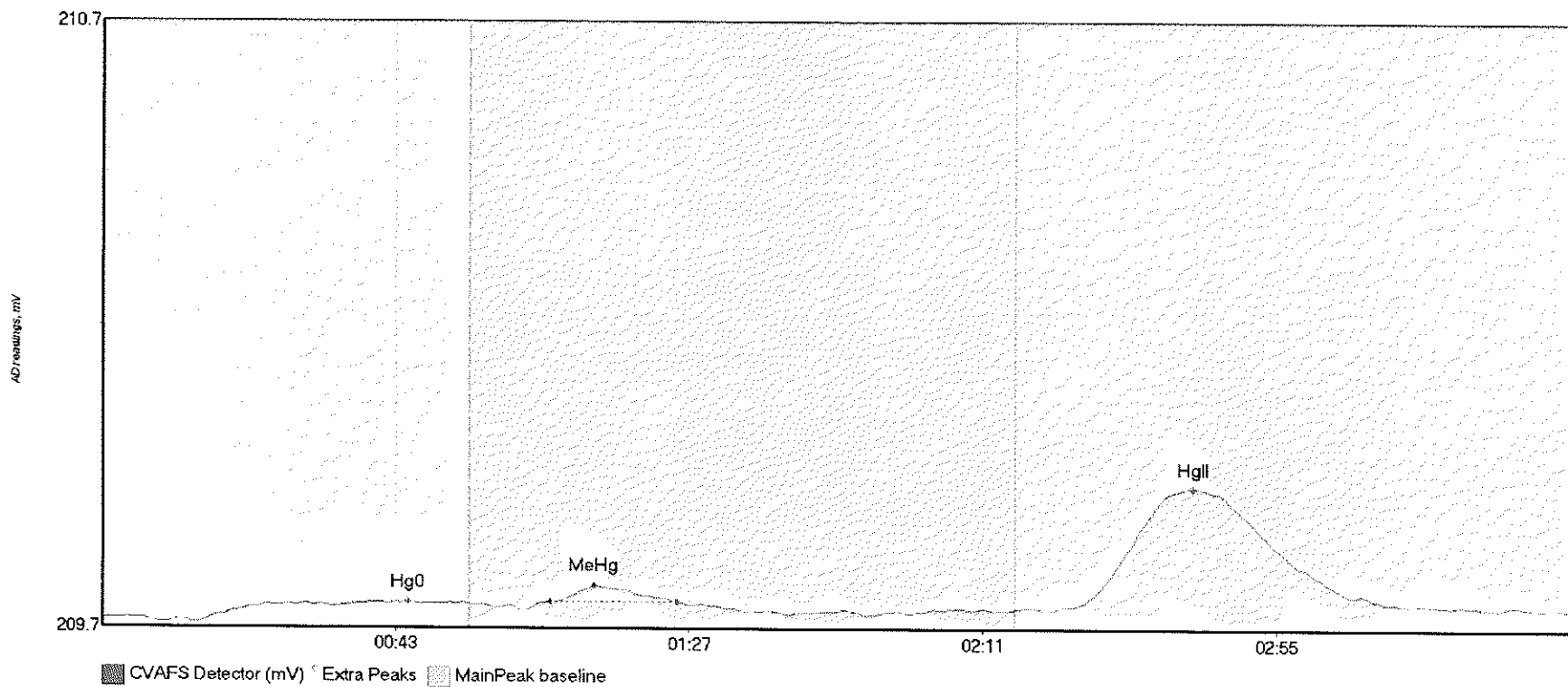
#57: 1708443-20



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708443-20 Hg0	3.198	14.9	54.9	209.74	209.77	54.0	0.033	OK	209.7317	0.00	0.02	
1708443-20 MeHg	7.299	67.5	92.3	209.77	209.76	76.2	0.055	OK	209.7317	0.00	0.02	
1708443-20 HgII	20.999	145.2	200.9	209.75	209.75	164.2	0.090	OK	209.7317	0.00	0.02	

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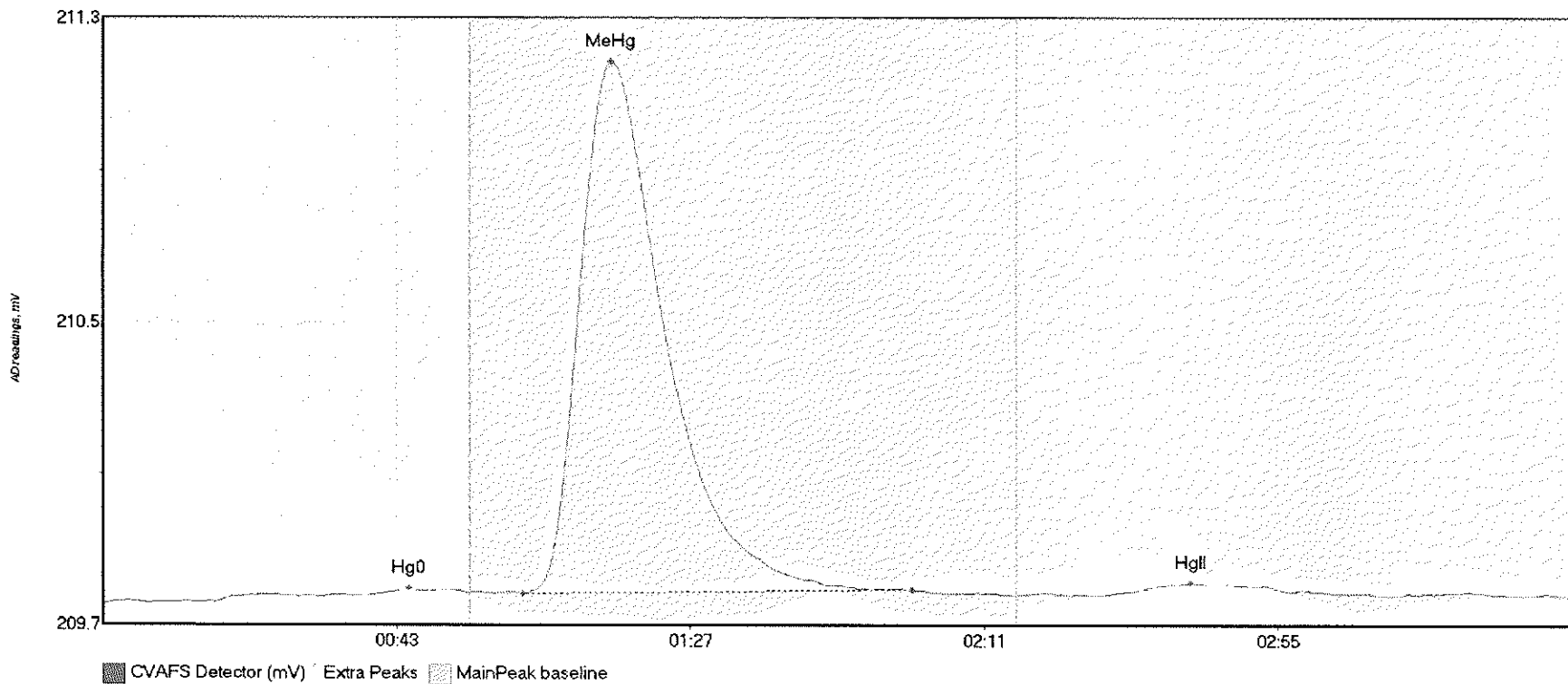
#58: 1708443-31



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708443-31 Hg0	2.089	17.2	47.7	209.74	209.76	45.9	0.022	OK	209.7369	0.00	0.02	
1708443-31 MeHg	2.497	67.2	86.2	209.76	209.76	73.7	0.026	OK	209.7369	0.00	0.02	
1708443-31 HgII	45.164	145.2	200.5	209.76	209.76	163.4	0.197	OK	209.7369	0.00	0.02	

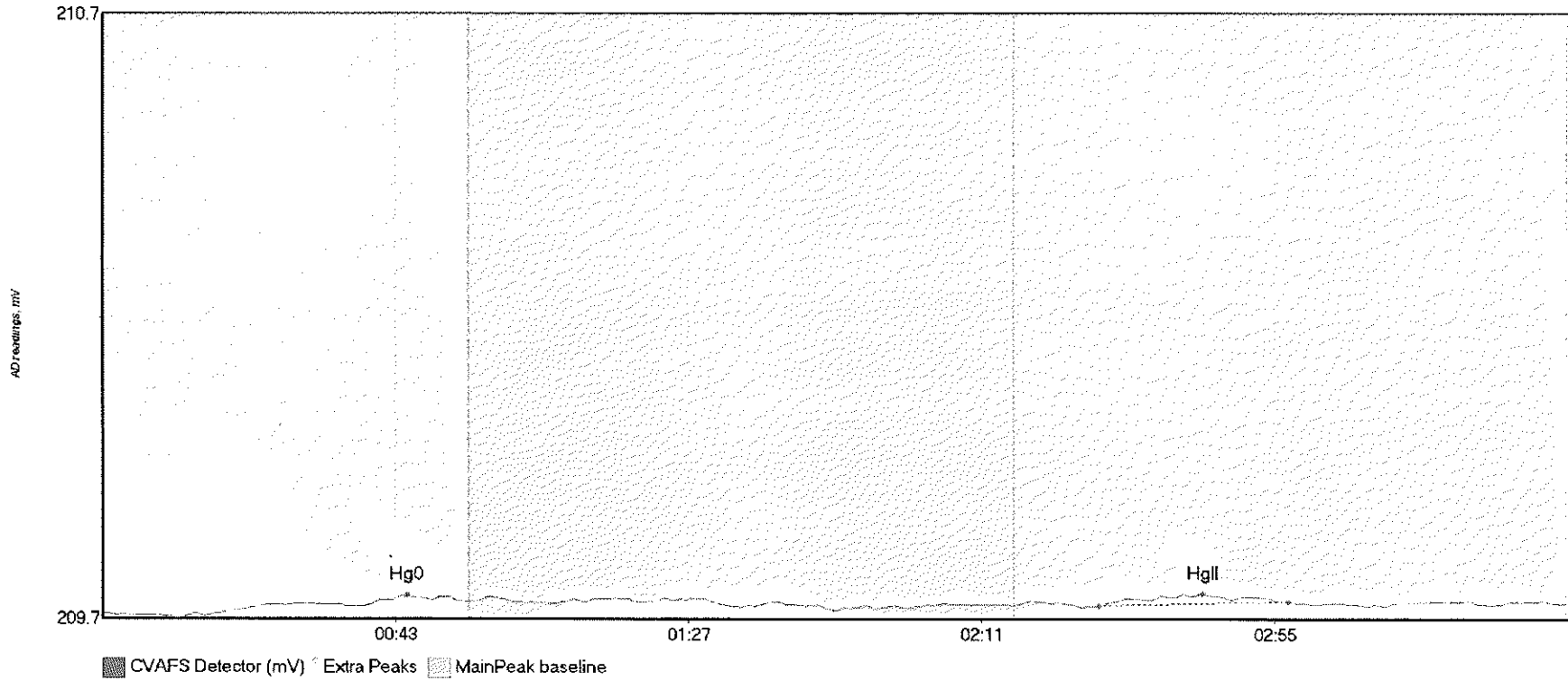


#59: SEQ-CCV5



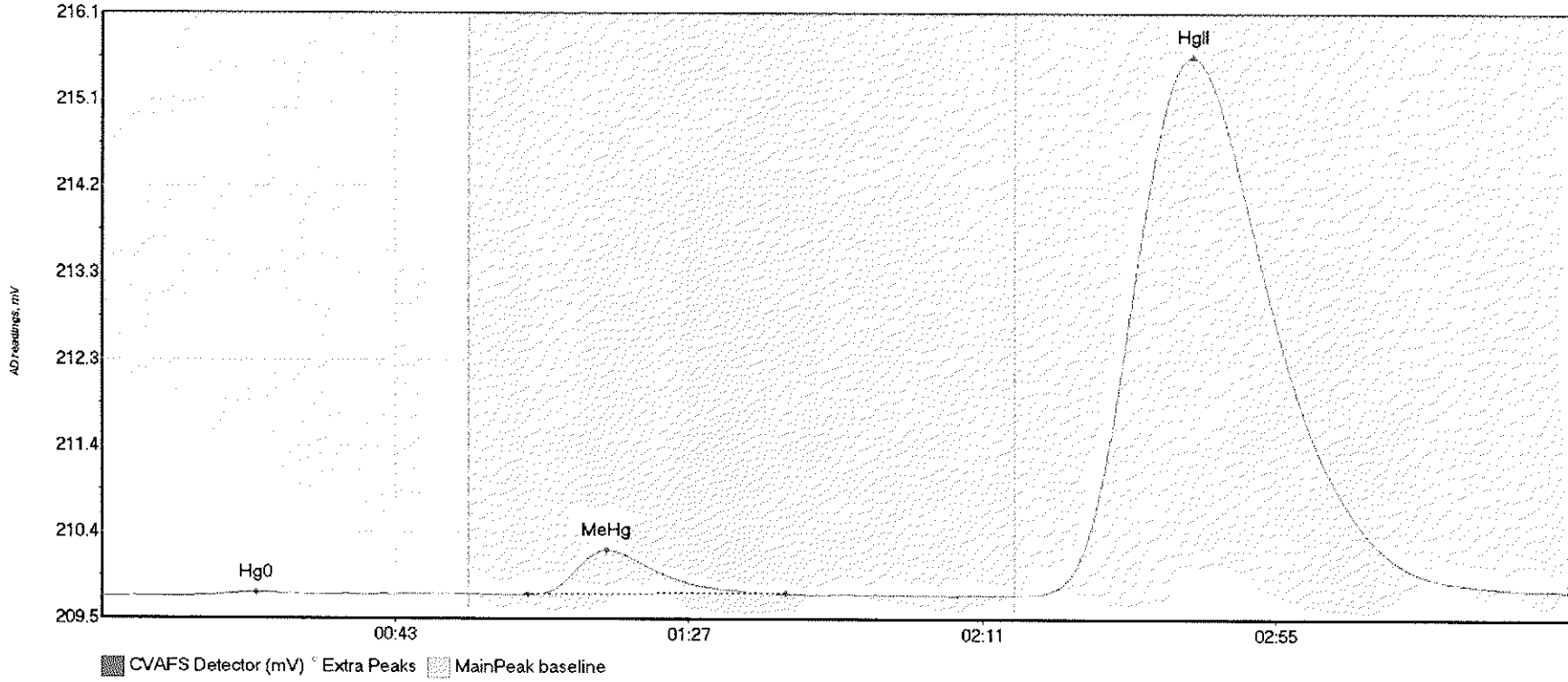
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	3.103	16.7	54.7	209.74	209.76	45.8	0.034	OK	209.7341	0.00	0.02	
SEQ-CCV5 MeHg	207.503	62.8	121.1	209.76	209.77	76.2	1.402	OK	209.7341	0.00	0.02	
SEQ-CCV5 HgII	5.716	149.3	184.1	209.75	209.76	162.9	0.033	OK	209.7341	0.00	0.02	

#60: SEQ-CCB5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB5 Hg0	2.028	19.0	54.7	209.74	209.76	45.7	0.025	OK	209.7407	0.00	0.02	
SEQ-CCB5 HgII	2.760	149.6	178.0	209.75	209.76	165.2	0.020	OK	209.7407	0.00	0.02	017

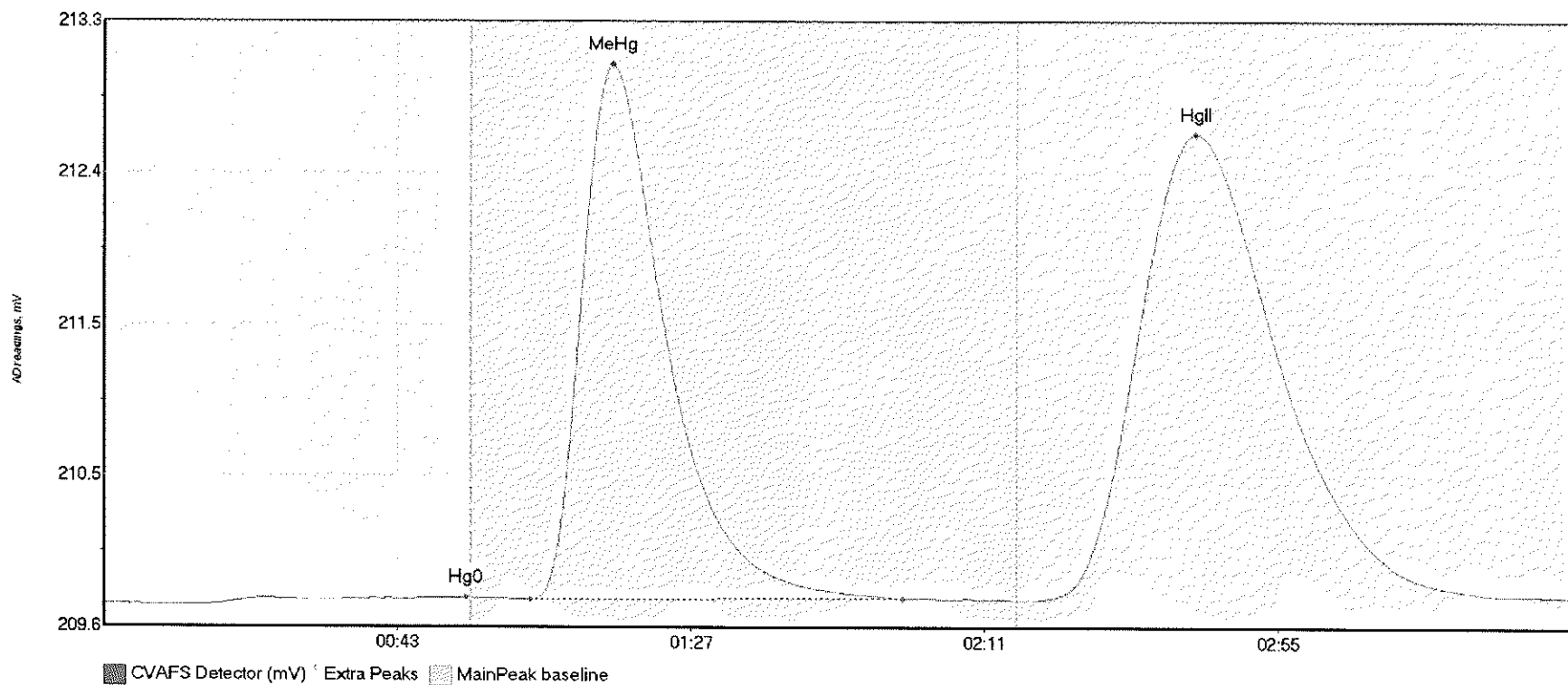
#61: F708477-DUP2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-DUP2 Hg	2.745	11.0	32.3	209.75	209.77	23.2	0.041	OK	209.7415	0.00	0.07	
F708477-DUP2 Me	67.250	63.9	102.4	209.77	209.78	75.7	0.479	OK	209.7415	0.00	0.07	
F708477-DUP2 Hg	1402.789	137.5	219.8	209.77	209.81	163.4	5.845	CT	209.7415	0.00	0.07	

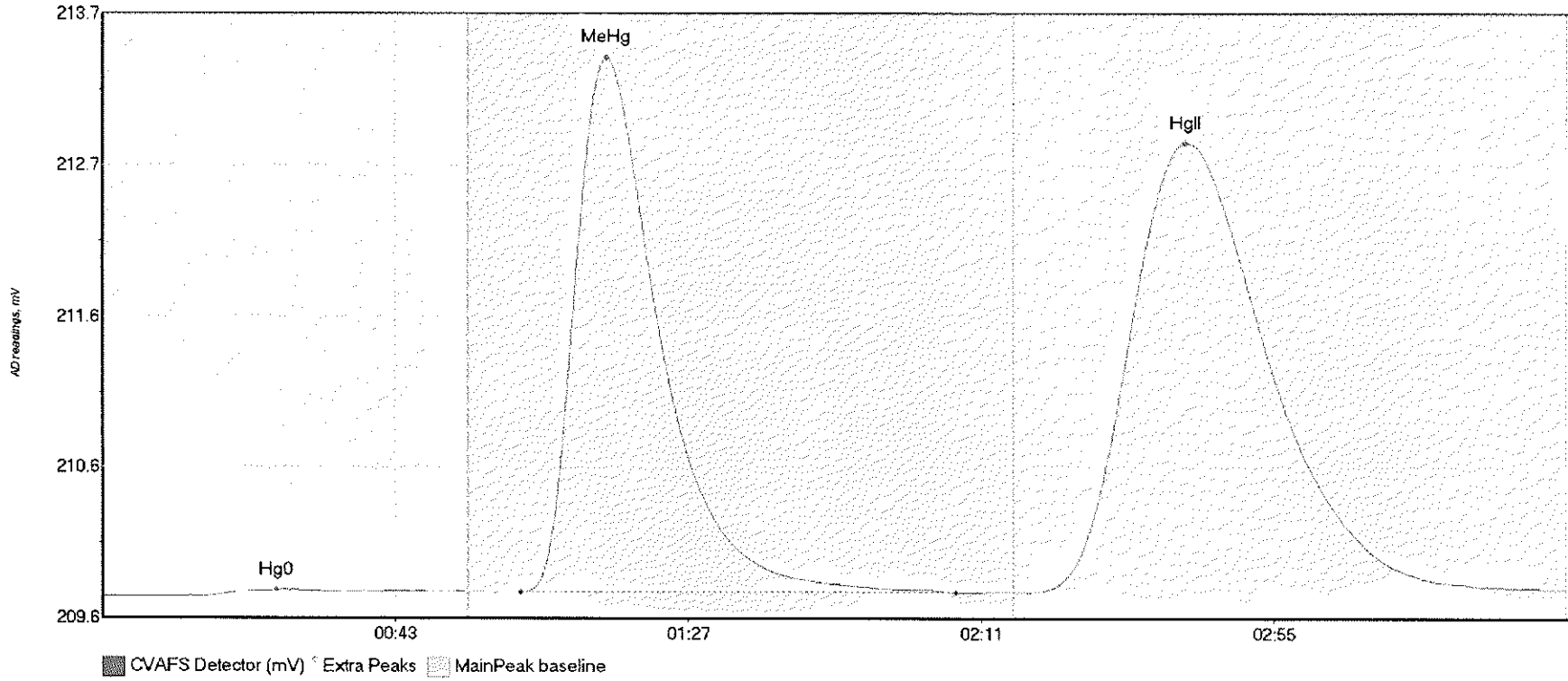
017

#62: F708477-MS3



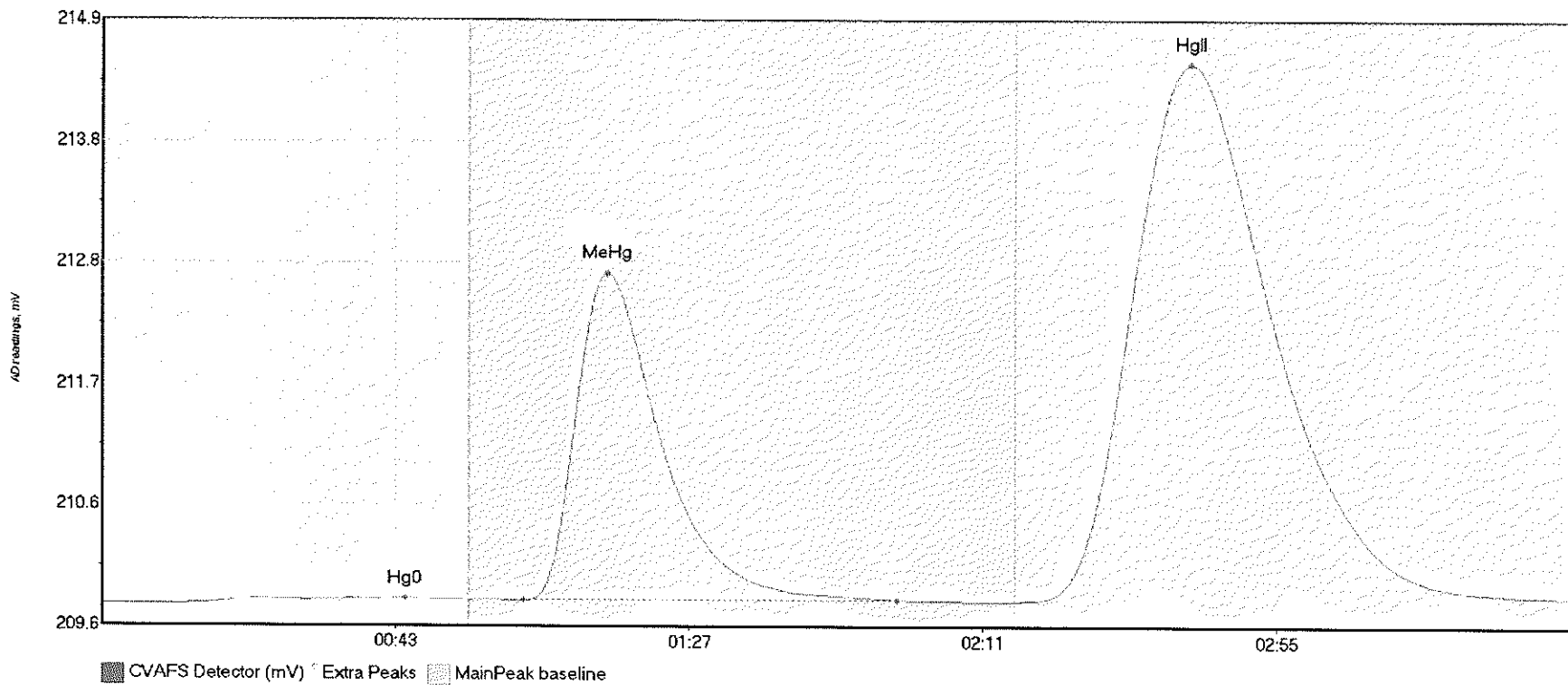
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-MS3 Hg0	3.321	17.5	54.9	209.76	209.79	54.3	0.038	OK	209.7540	0.00	0.05	
F708477-MS3 MeH	480.570	63.8	119.7	209.78	209.79	76.3	3.261	OK	209.7540	0.00	0.05	
F708477-MS3 HgI	683.421	139.0	219.8	209.78	209.80	163.6	2.844	CT	209.7540	0.00	0.05	

#63: F708477-MSD3



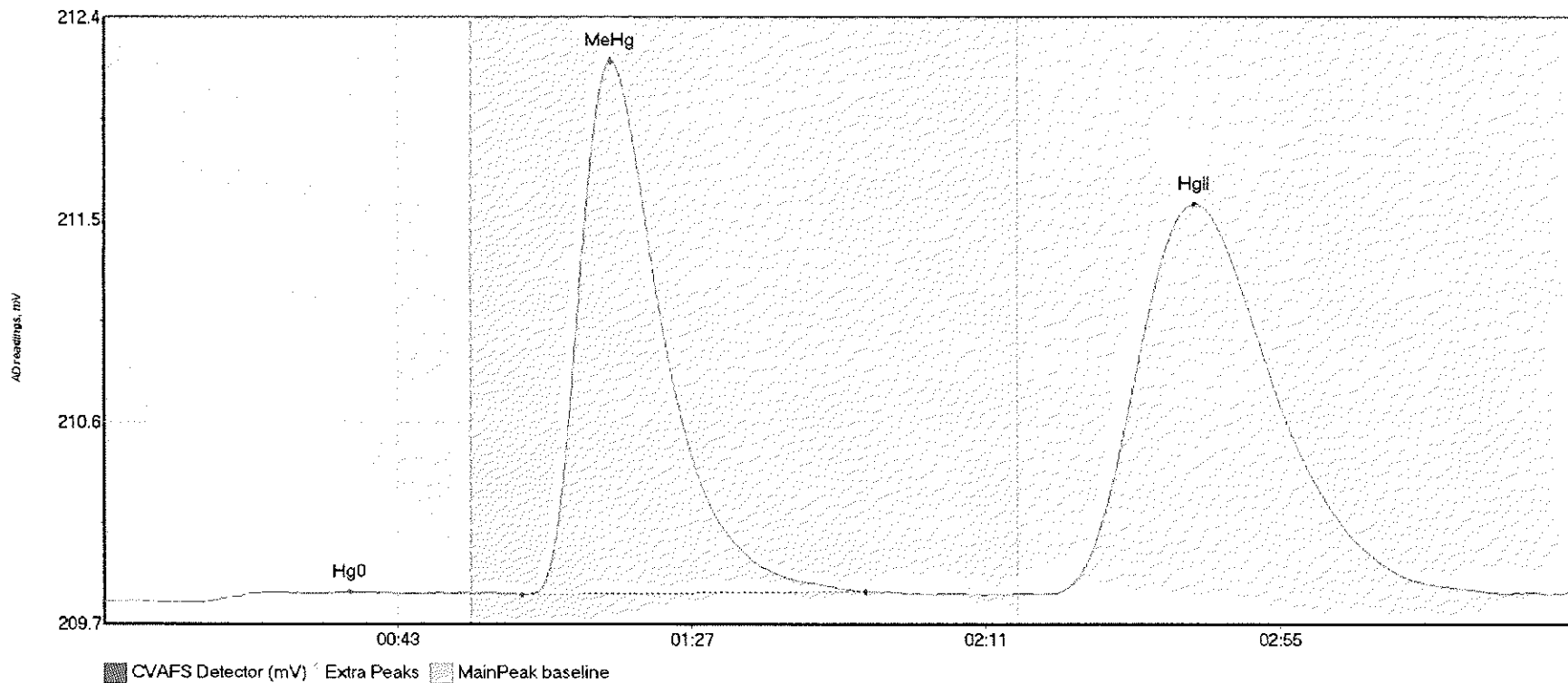
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-MSD3 Hg	3.398	15.1	36.0	209.77	209.80	26.2	0.043	OK	209.7624	0.00	0.05	
F708477-MSD3 Me	529.933	62.8	128.2	209.79	209.79	75.8	3.583	OK	209.7624	0.00	0.05	
F708477-MSD3 Hg	716.564	139.8	217.7	209.79	209.81	162.8	3.009	OK	209.7624	0.00	0.05	

#64: F708477-MS4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-MS4 Hg0	7.712	13.6	55.0	209.77	209.80	45.5	0.045	CT	209.7658	0.00	0.07	
F708477-MS4 MeH	421.012	63.1	119.2	209.80	209.81	75.8	2.870	OK	209.7658	0.00	0.07	
F708477-MS4 HgI	1131.367	137.9	219.8	209.80	209.83	163.1	4.717	CT	209.7658	0.00	0.07	

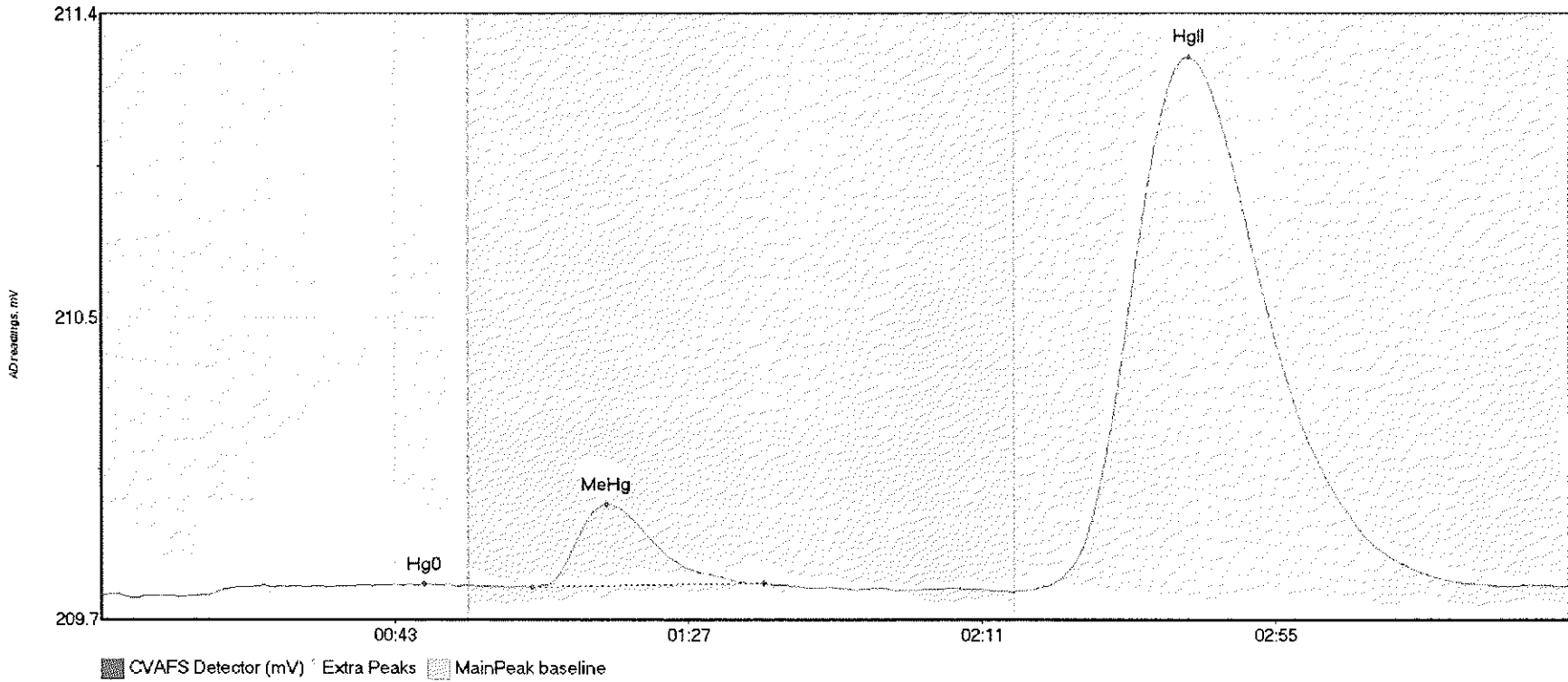
#65: F708477-MSD4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708477-MSD4 Hg	4.882	15.2	45.3	209.77	209.81	36.8	0.043	OK	209.7735	0.00	0.04	
F708477-MSD4 Me	345.838	62.6	114.0	209.80	209.81	75.9	2.379	OK	209.7735	0.00	0.04	
F708477-MSD4 Hg	411.689	142.4	208.1	209.81	209.81	163.2	1.739	OK	209.7735	0.00	0.04	

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#66: 1708151-24RE1

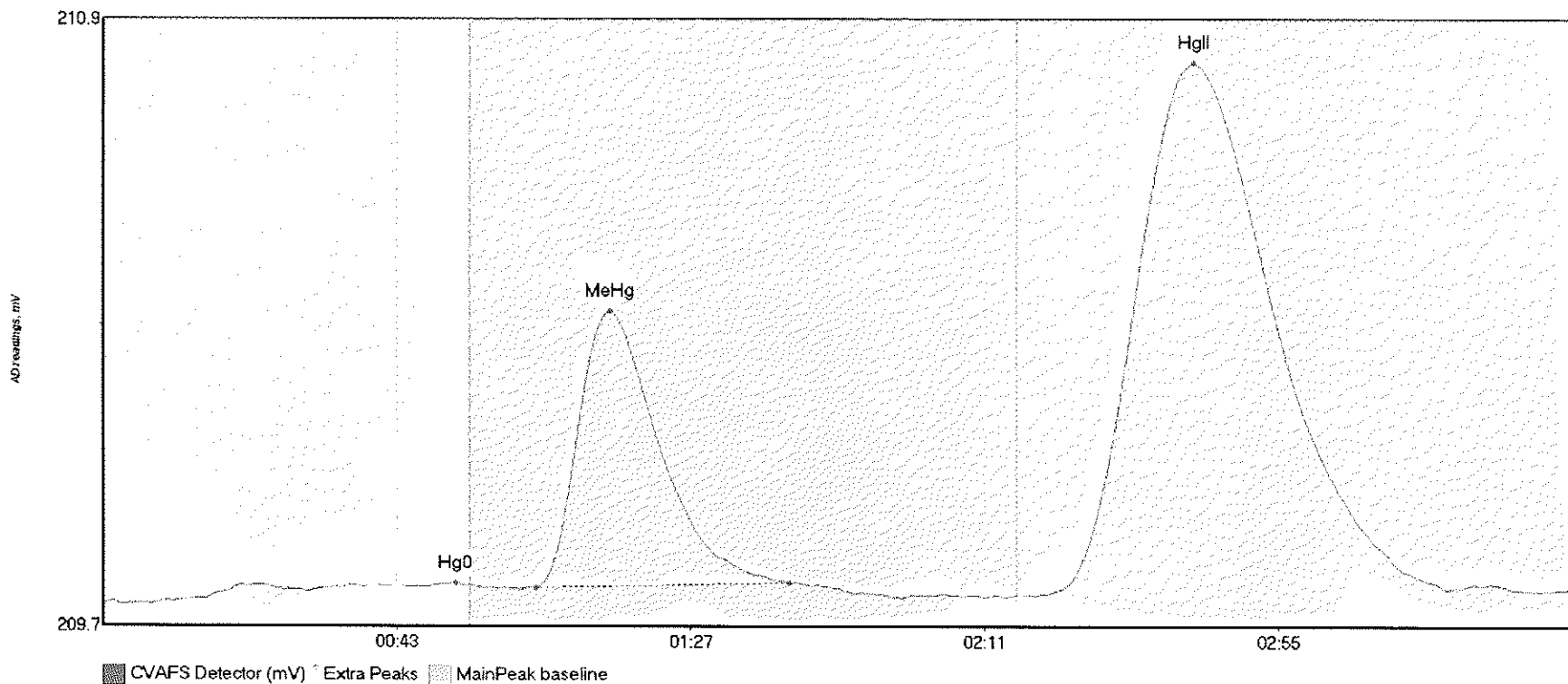


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-24RE1 H	4.172	15.6	53.3	209.77	209.80	48.5	0.029	OK	209.7726	0.00	0.02	
1708151-24RE1 M	29.927	64.6	99.3	209.79	209.80	75.8	0.229	OK	209.7726	0.00	0.02	
1708151-24RE1 H	343.657	138.6	219.8	209.78	209.79	163.0	1.459	CT	209.7726	0.00	0.02	

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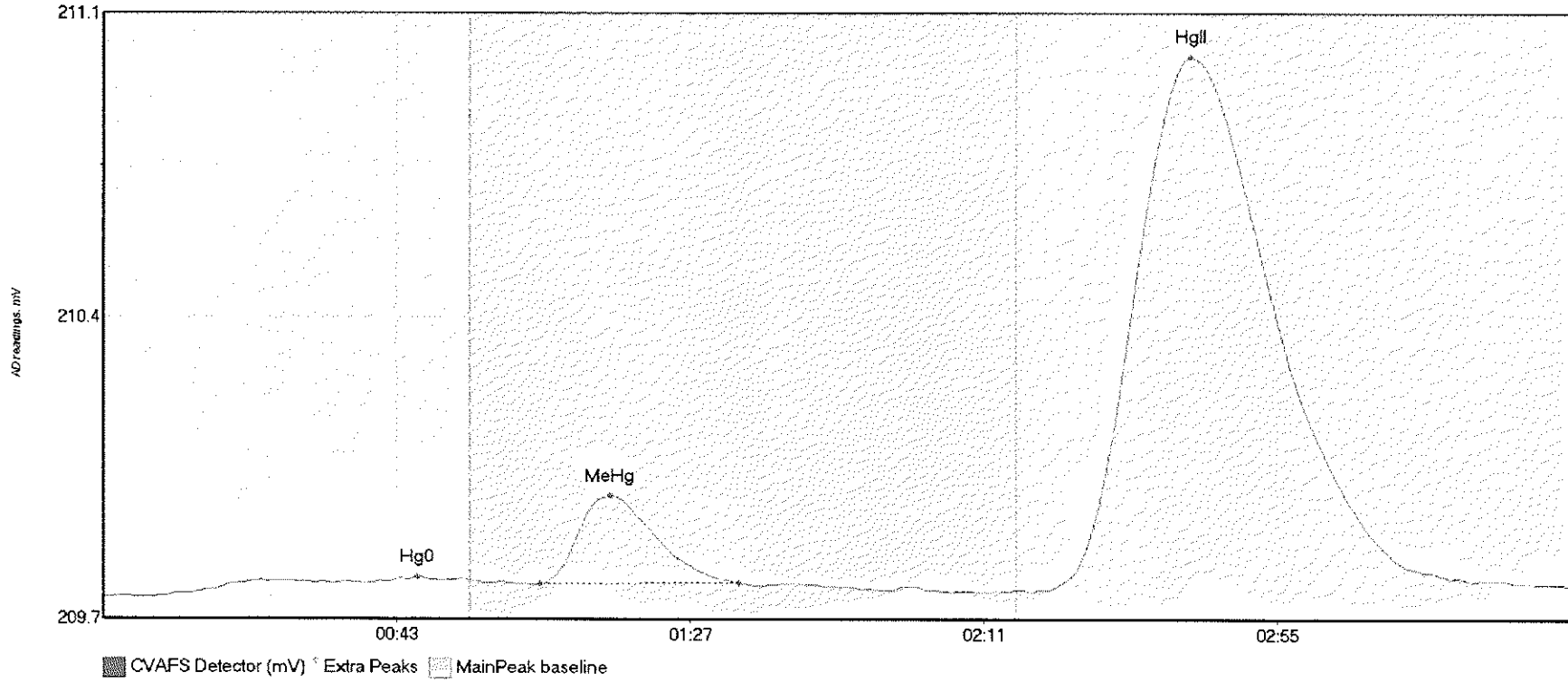


#67: 1708151-25RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-25RE1 H	3.684	11.1	54.3	209.77	209.80	52.9	0.034	OK	209.7626	0.00	0.03	
1708151-25RE1 M	72.512	64.8	102.8	209.79	209.80	76.0	0.526	OK	209.7626	0.00	0.03	
1708151-25RE1 H	238.810	141.6	215.1	209.78	209.78	163.3	1.007	OK	209.7626	0.00	0.03	

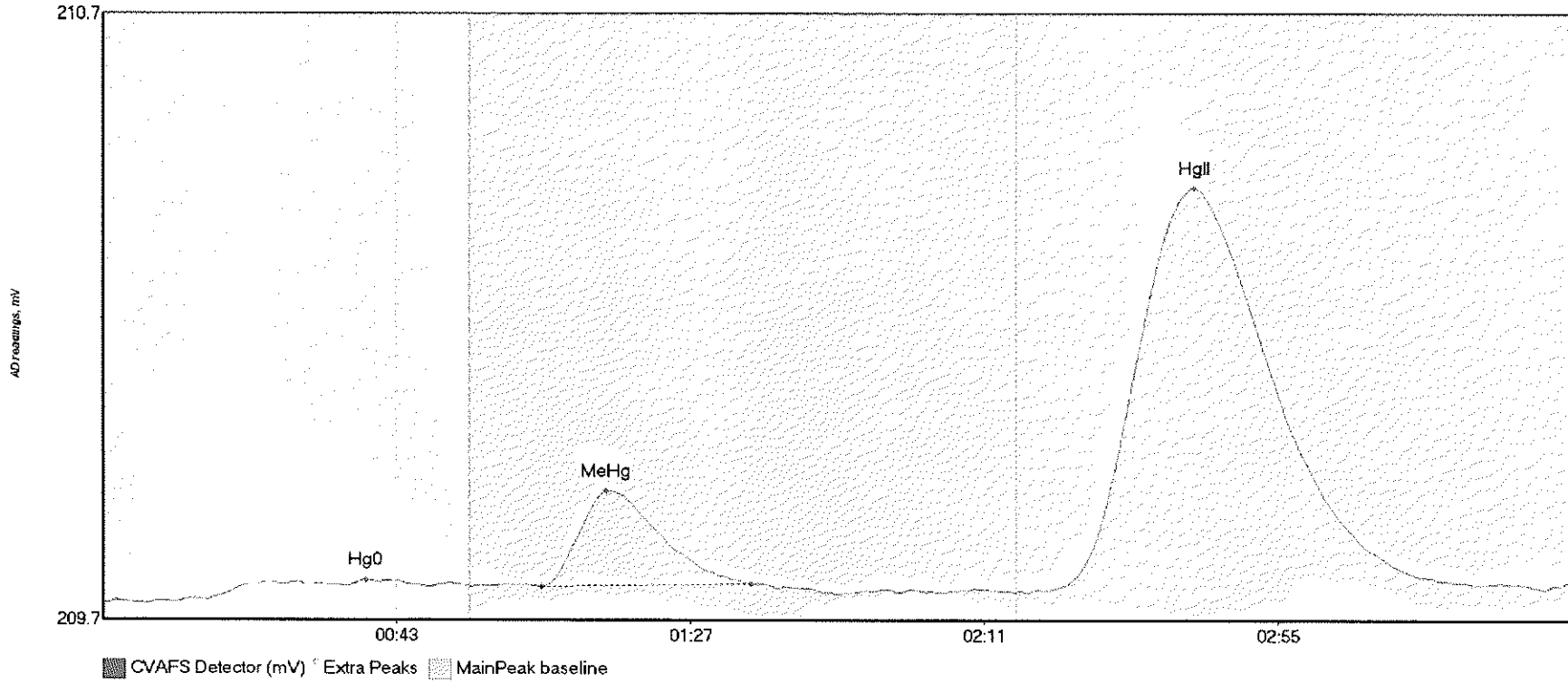
#68: 1708151-26RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-26RE1 H	4.383	9.6	50.6	209.77	209.80	47.2	0.043	OK	209.7632	0.00	0.03	
1708151-26RE1 M	26.162	65.5	95.3	209.79	209.79	76.0	0.199	OK	209.7632	0.00	0.03	
1708151-26RE1 H	287.143	140.5	219.8	209.78	209.79	163.1	1.195	CT	209.7632	0.00	0.03	

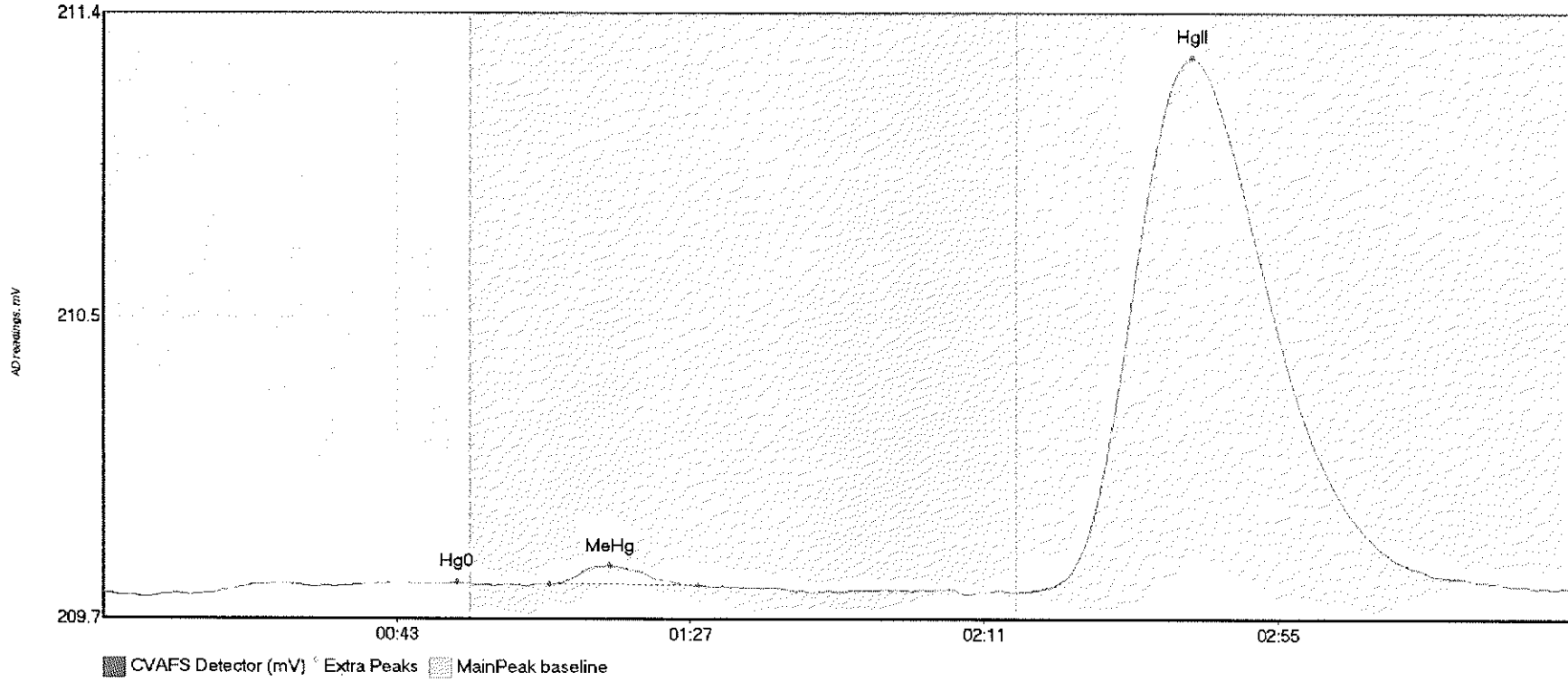
017

#69: 1708151-27RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-27RE1 H	4.520	15.6	48.9	209.77	209.79	39.4	0.033	OK	209.7609	0.00	0.03	
1708151-27RE1 M	21.645	65.7	97.0	209.79	209.79	75.5	0.159	OK	209.7609	0.00	0.03	
1708151-27RE1 H	155.491	142.5	215.8	209.78	209.78	163.4	0.661	OK	209.7609	0.00	0.03	

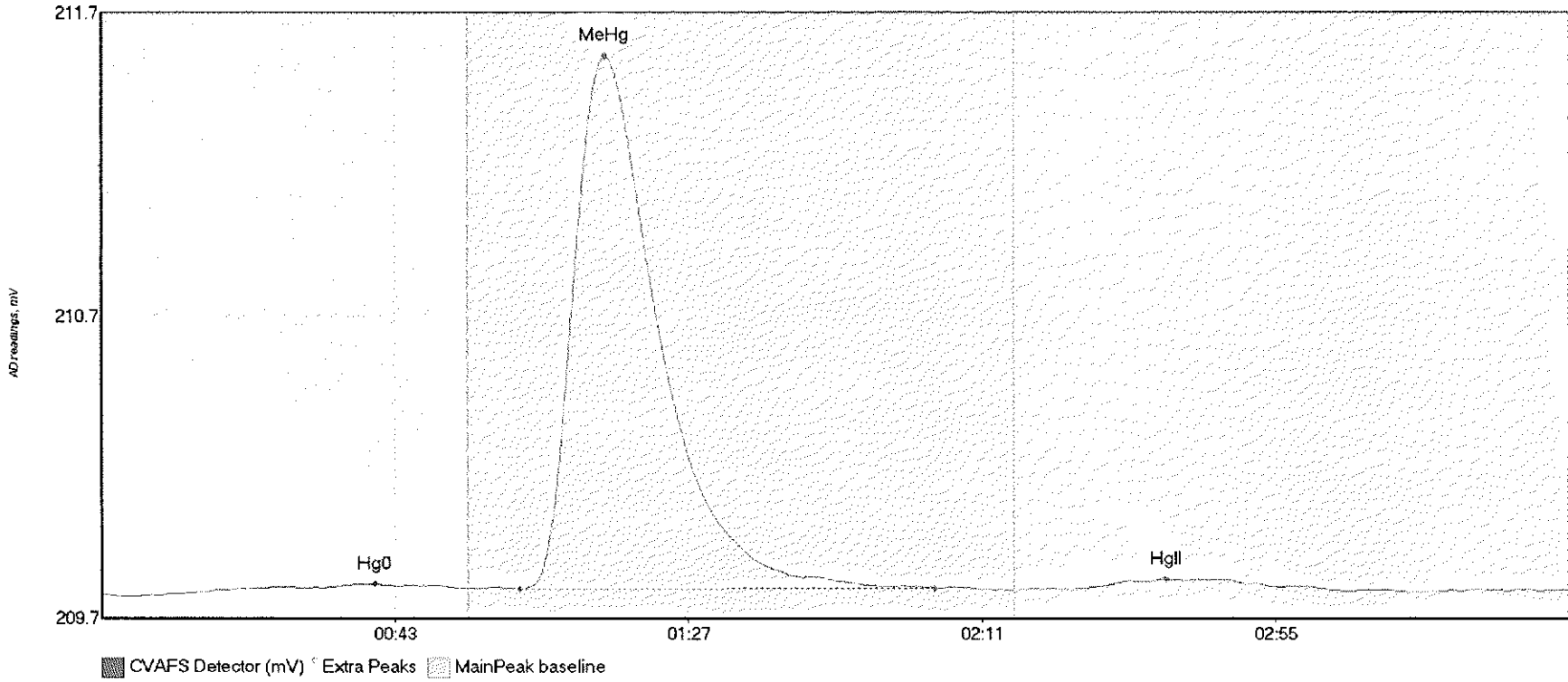
#70: 1708151-28RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-28RE1 H	3.887	16.6	54.8	209.76	209.79	53.0	0.031	OK	209.7619	0.00	0.02	
1708151-28RE1 M	5.972	66.8	89.1	209.79	209.78	76.0	0.053	OK	209.7619	0.00	0.02	
1708151-28RE1 H	361.726	139.7	217.2	209.77	209.78	163.0	1.514	OK	209.7619	0.00	0.02	

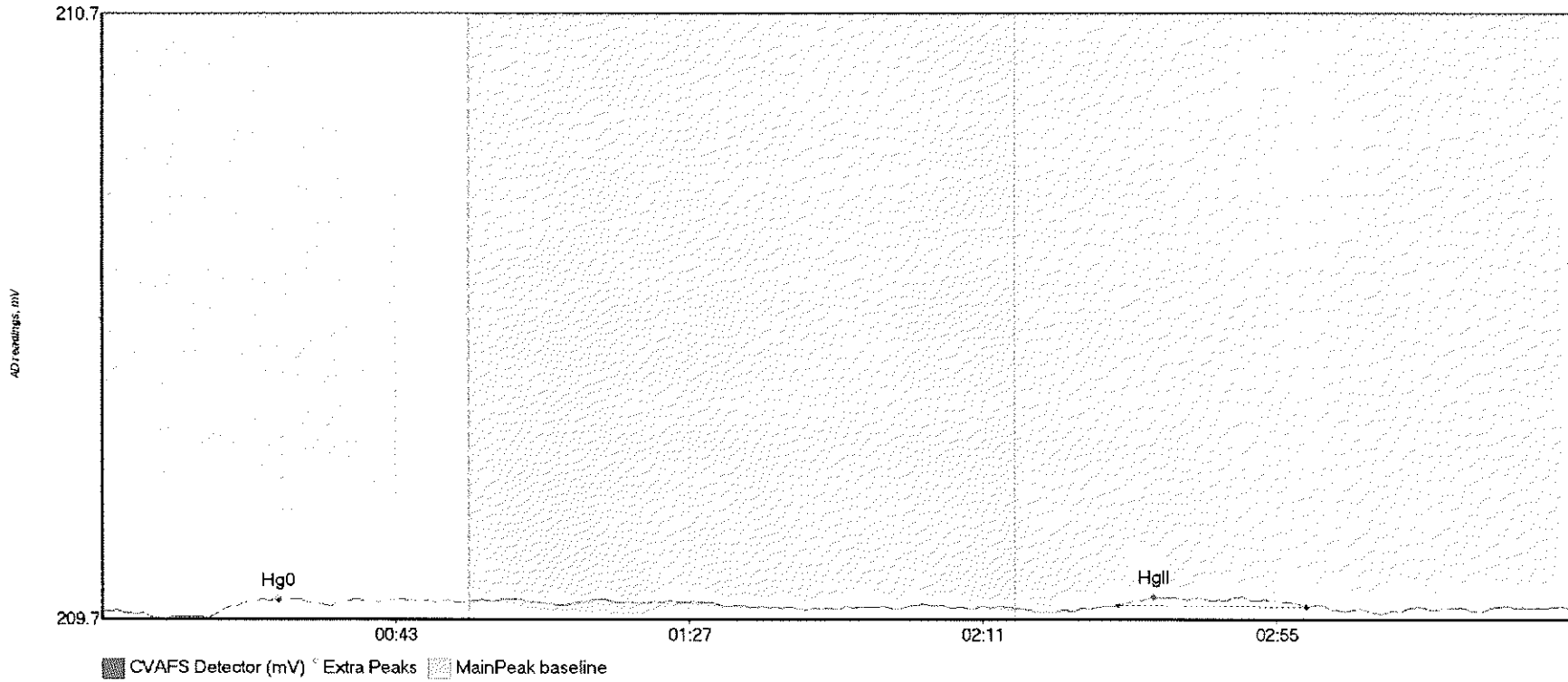
017

#71: SEQ-CCV6



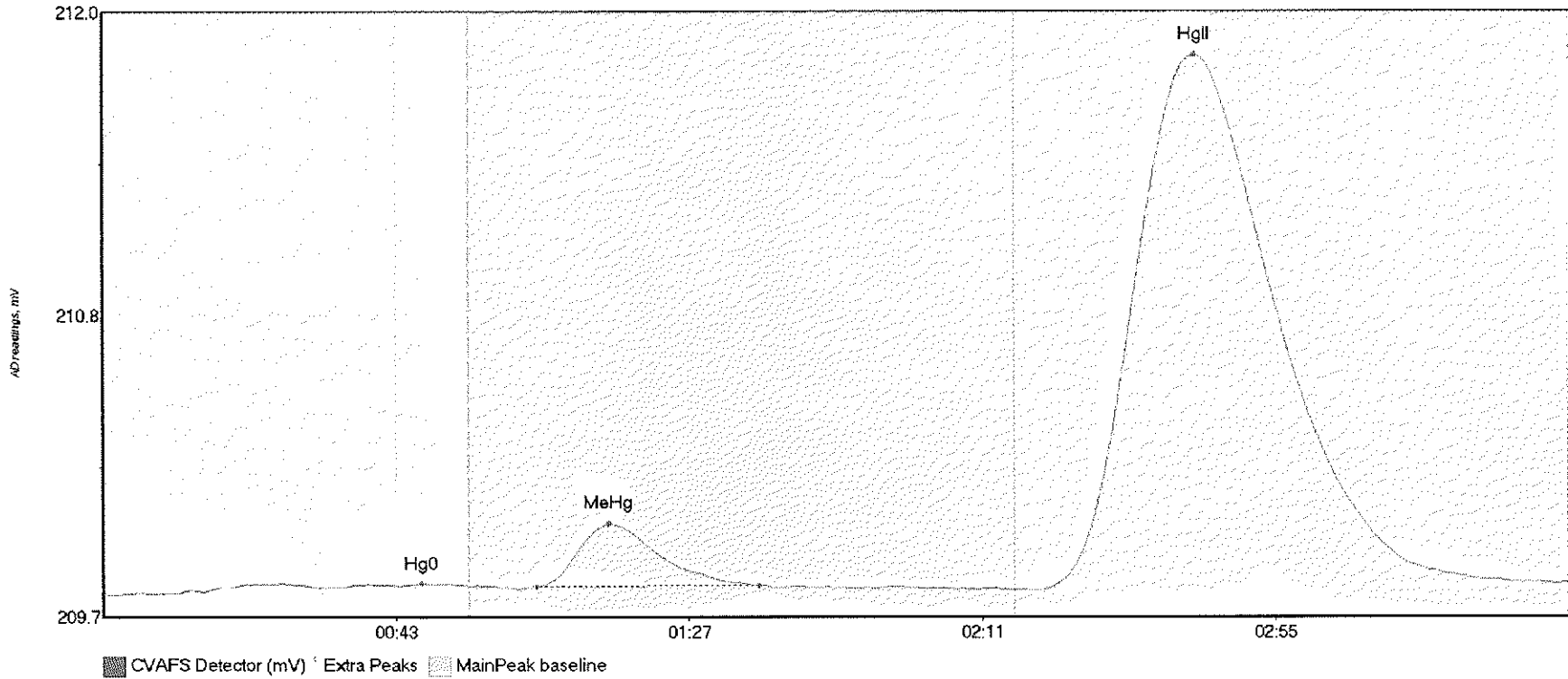
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV6 Hg0	5.048	12.3	53.7	209.76	209.77	41.0	0.032	OK	209.7537	0.00	0.01	
SEQ-CCV6 MeHg	256.625	62.7	124.9	209.77	209.78	75.6	1.739	OK	209.7537	0.00	0.01	
SEQ-CCV6 HgII	7.141	147.3	184.2	209.78	209.77	159.6	0.031	OK	209.7537	0.00	0.01	

#72: SEQ-CCB6



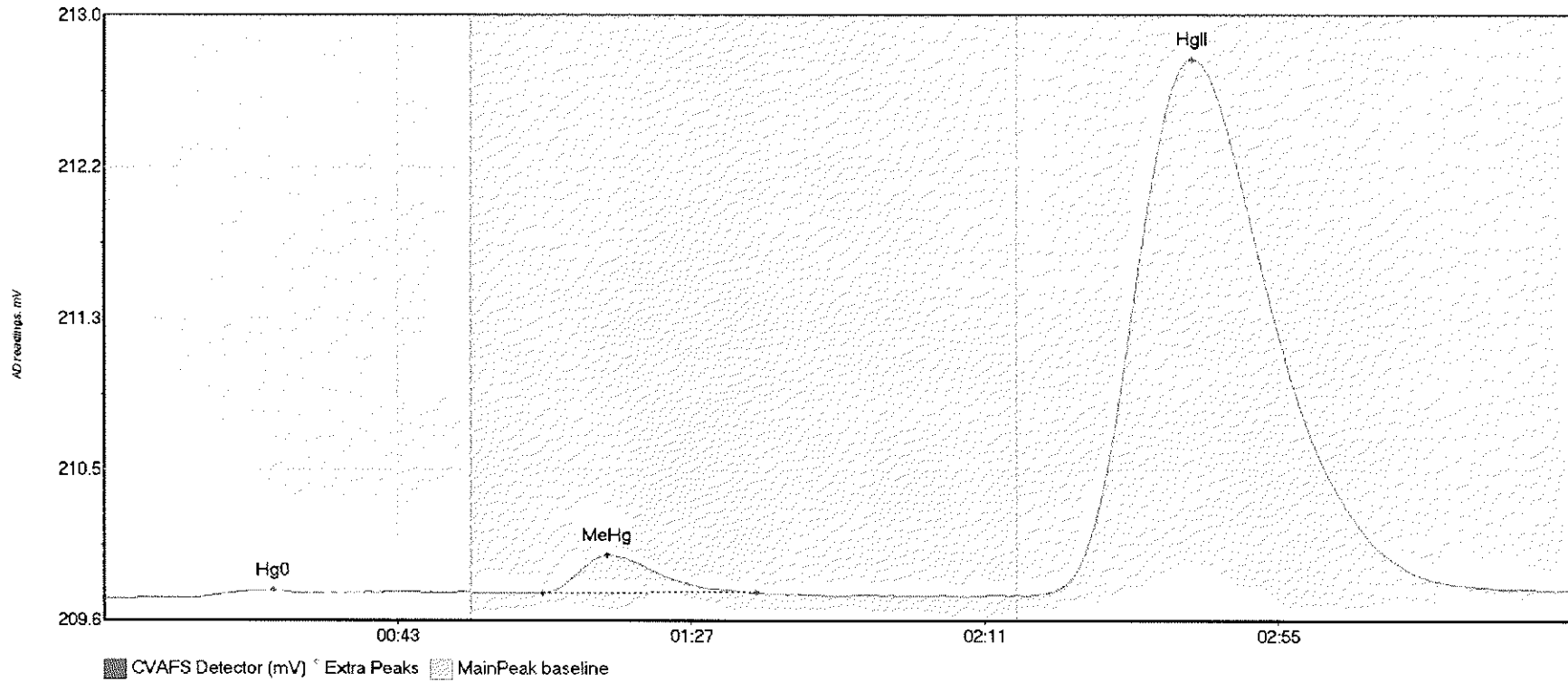
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB6 Hg0	2.514	16.0	34.3	209.75	209.77	26.4	0.031	OK	209.7569	0.00	0.01	
SEQ-CCB6 HgII	2.960	152.3	180.4	209.77	209.76	157.6	0.015	OK	209.7569	0.00	0.01	017

#73: 1708151-29RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1708151-29RE1 H	5.612	10.8	55.0	209.74	209.77	47.9	0.037	CT	209.7405	0.00	0.04	
1708151-29RE1 M	32.614	65.2	98.4	209.77	209.77	76.0	0.239	OK	209.7405	0.00	0.04	
1708151-29RE1 H	493.909	140.6	218.2	209.76	209.78	163.9	2.033	OK	209.7405	0.00	0.04	

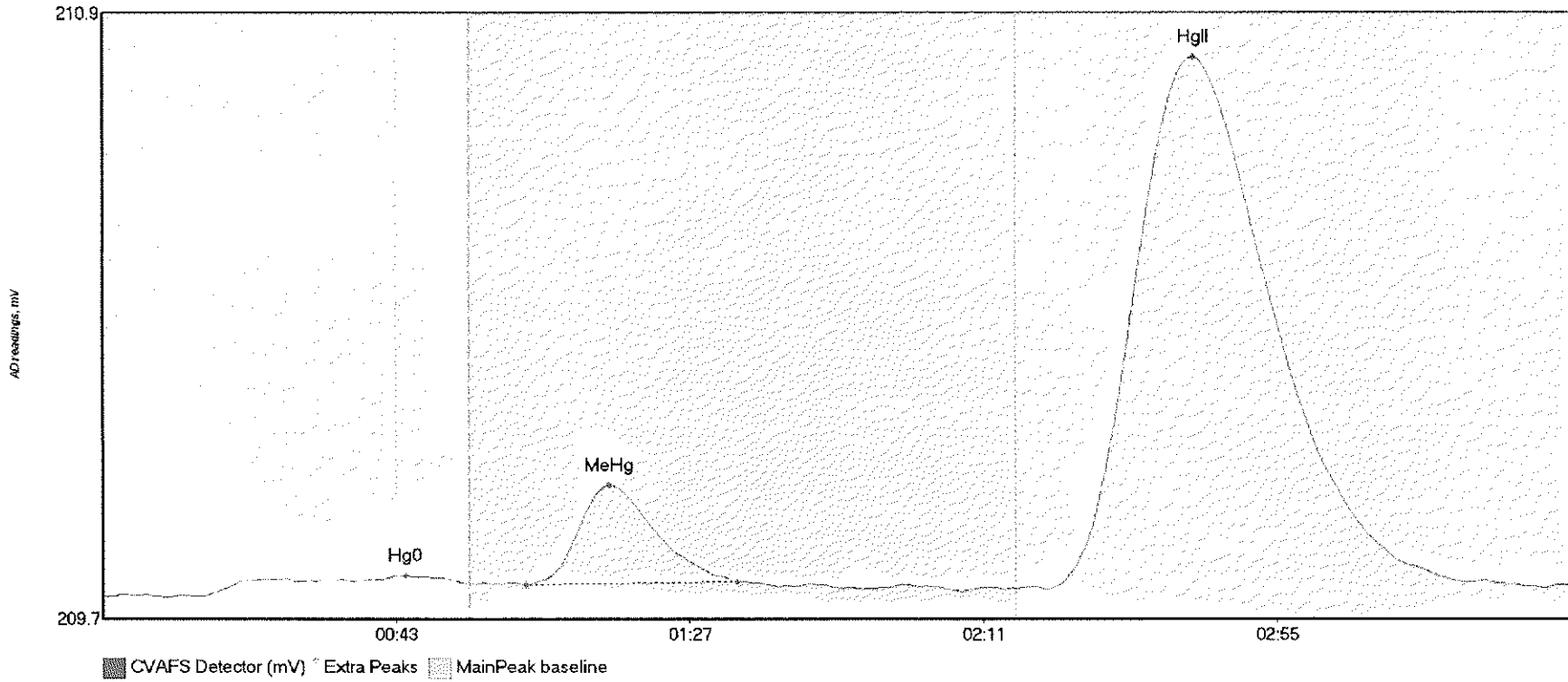
#74: 1708151-30RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-30RE1 H	2.198	4.6	31.0	209.75	209.77	25.5	0.045	OK	209.7432	0.00	0.05	
1708151-30RE1 M	28.363	65.7	97.8	209.78	209.78	75.4	0.212	OK	209.7432	0.00	0.05	
1708151-30RE1 H	712.965	138.4	217.8	209.76	209.79	163.0	3.009	OK	209.7432	0.00	0.05	

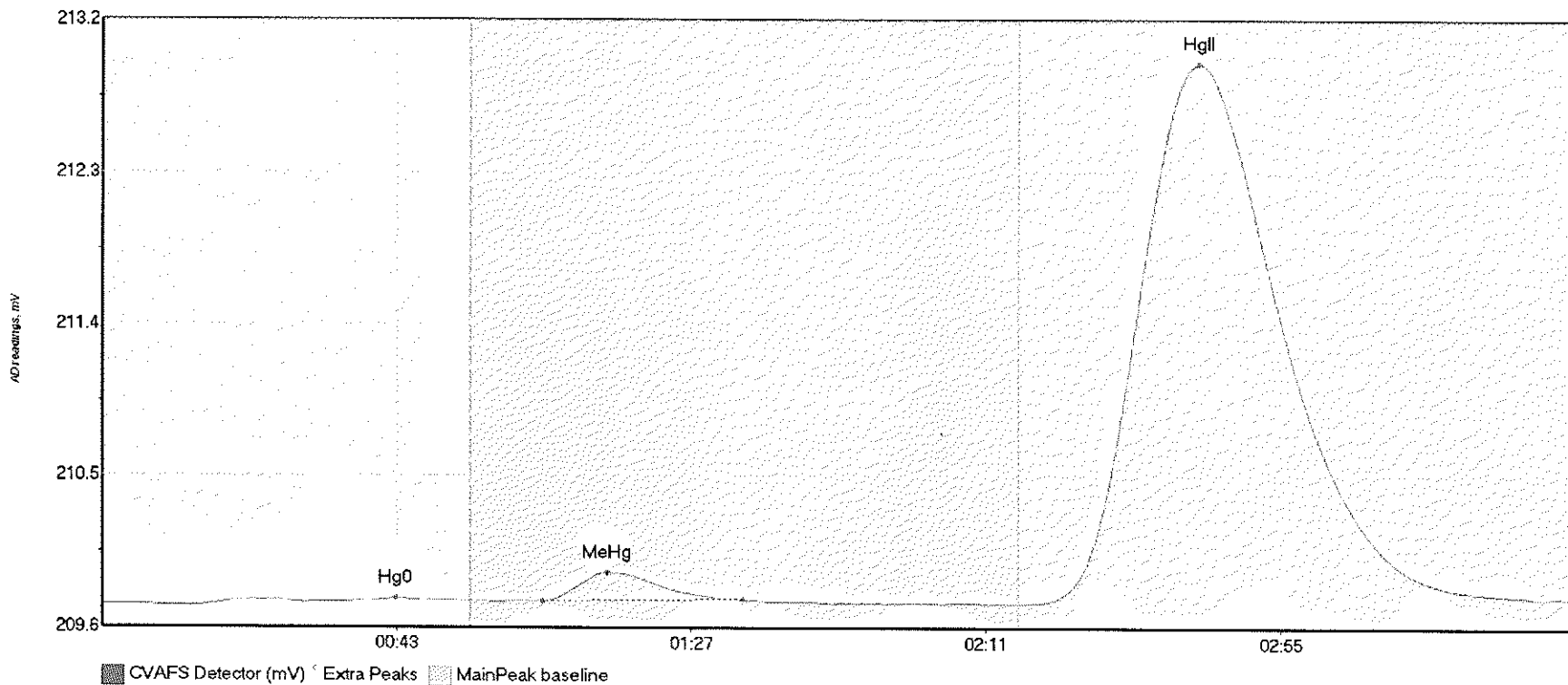


#75: 1708151-31RE1



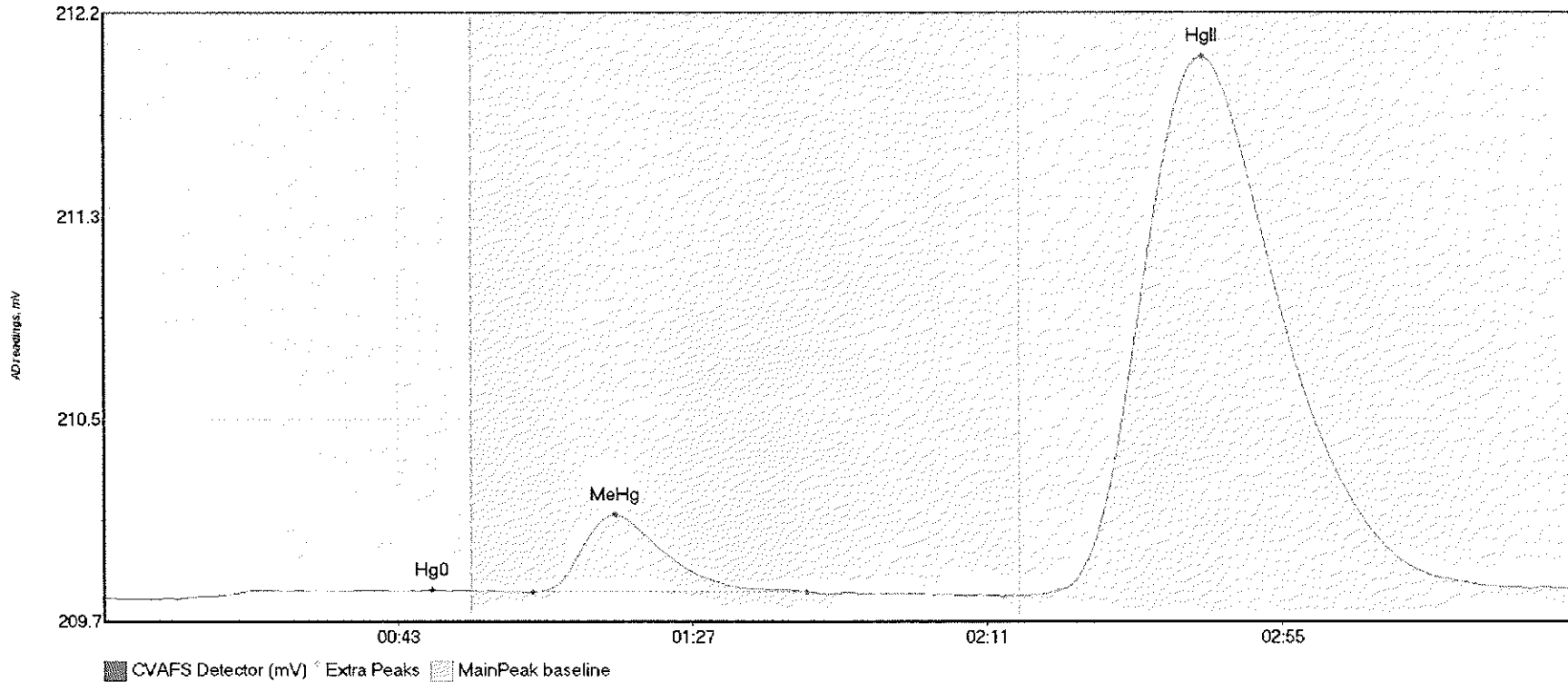
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-31RE1 H	7.095	15.0	55.0	209.75	209.77	45.4	0.040	CT	209.7458	0.00	0.02	
1708151-31RE1 M	26.298	63.5	95.1	209.77	209.77	76.0	0.200	OK	209.7458	0.00	0.02	
1708151-31RE1 H	253.614	141.8	212.8	209.76	209.77	163.4	1.067	OK	209.7458	0.00	0.02	

#76: 1708151-32RE1



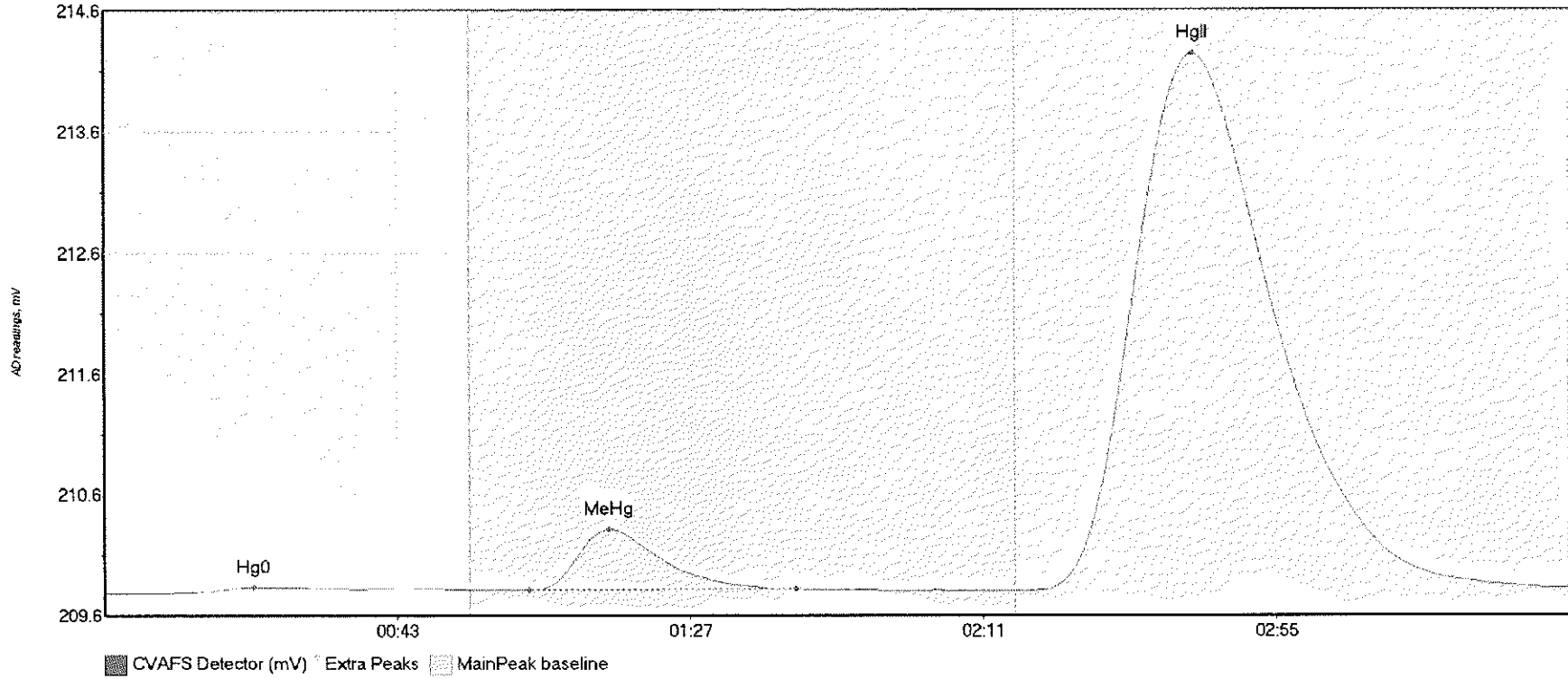
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1708151-32RE1 H	5.057	14.3	53.8	209.75	209.78	43.9	0.041	OK	209.7526	0.00	0.04	
1708151-32RE1 M	22.381	65.7	95.8	209.78	209.78	75.5	0.169	OK	209.7526	0.00	0.04	
1708151-32RE1 H	769.277	137.3	219.0	209.76	209.79	163.6	3.197	OK	209.7526	0.00	0.04	

#77: 1708154-01RE1



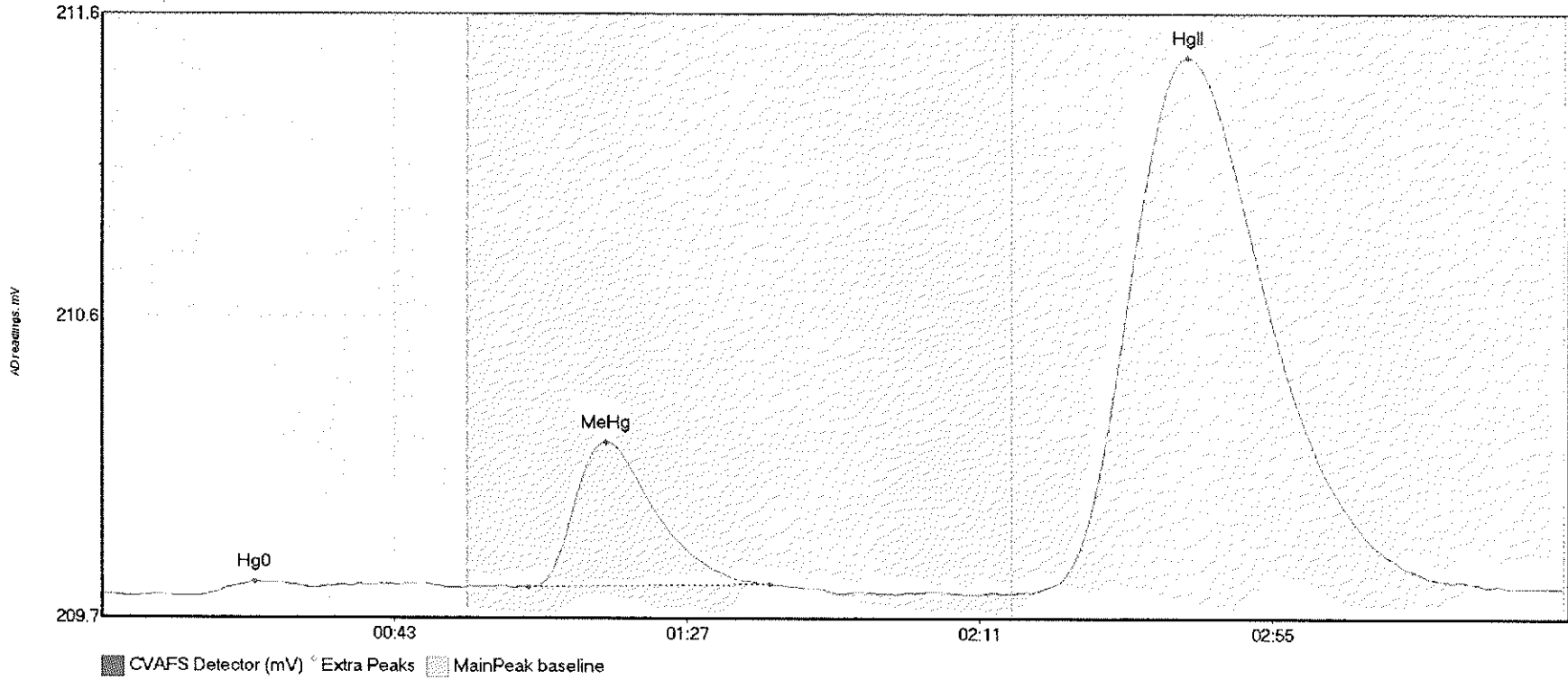
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708154-01RE1 H	3.448	13.8	51.5	209.76	209.78	49.1	0.028	OK	209.7554	0.00	0.04	
1708154-01RE1 M	45.546	64.2	105.0	209.78	209.78	76.5	0.322	OK	209.7554	0.00	0.04	
1708154-01RE1 H	529.438	139.9	213.1	209.77	209.79	164.0	2.223	OK	209.7554	0.00	0.04	

#78: 1708154-02RE1



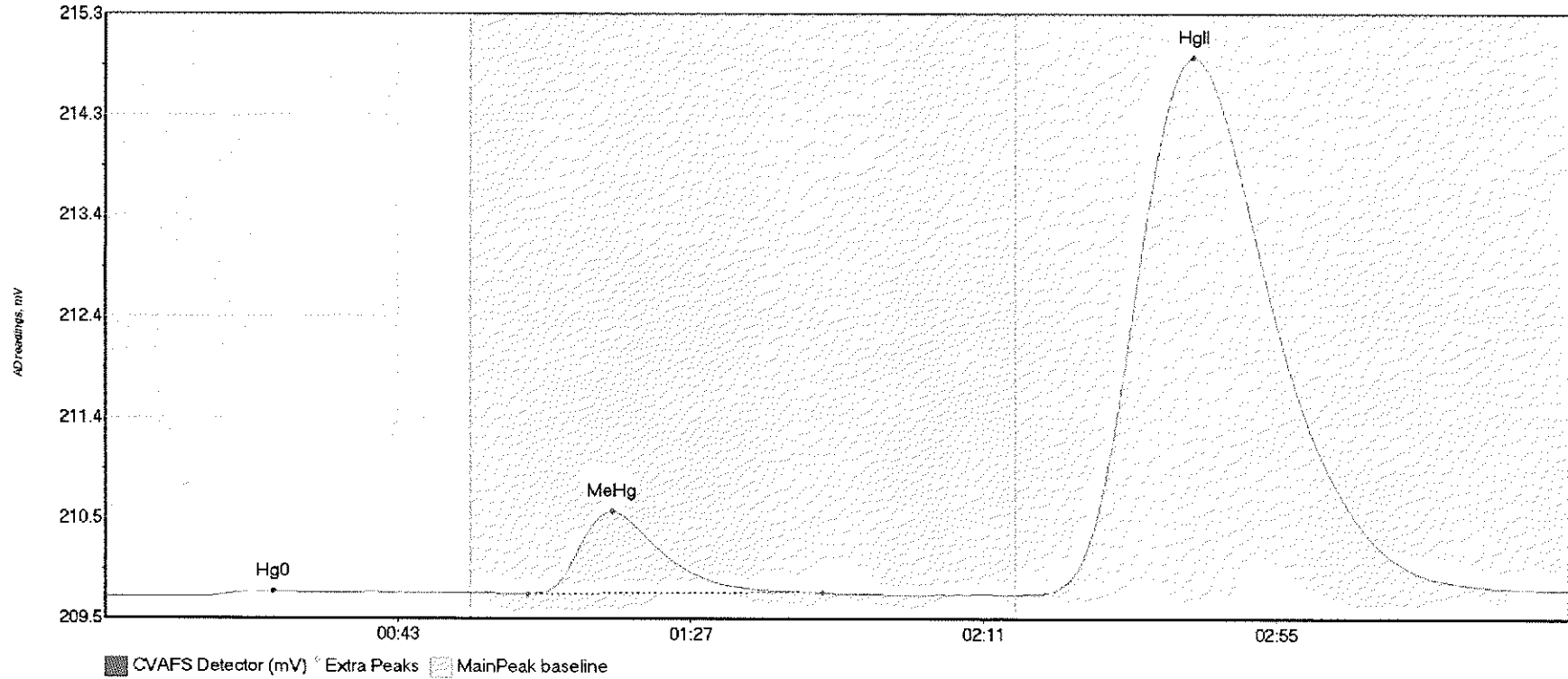
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708154-02RE1 H	8.214	9.3	52.9	209.75	209.78	22.5	0.050	OK	209.7494	0.00	0.05	
1708154-02RE1 M	72.413	63.8	103.9	209.78	209.79	75.9	0.511	OK	209.7494	0.00	0.05	
1708154-02RE1 H	1084.761	138.6	218.4	209.77	209.80	163.5	4.506	OK	209.7494	0.00	0.05	

#79: 1708154-03RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708154-03RE1 H	3.051	14.8	31.9	209.75	209.78	23.0	0.044	OK	209.7588	0.00	0.02	
1708154-03RE1 M	63.201	64.1	100.5	209.78	209.79	75.9	0.454	OK	209.7588	0.00	0.02	
1708154-03RE1 H	403.605	139.9	219.8	209.77	209.78	163.2	1.676	CT	209.7588	0.00	0.02	

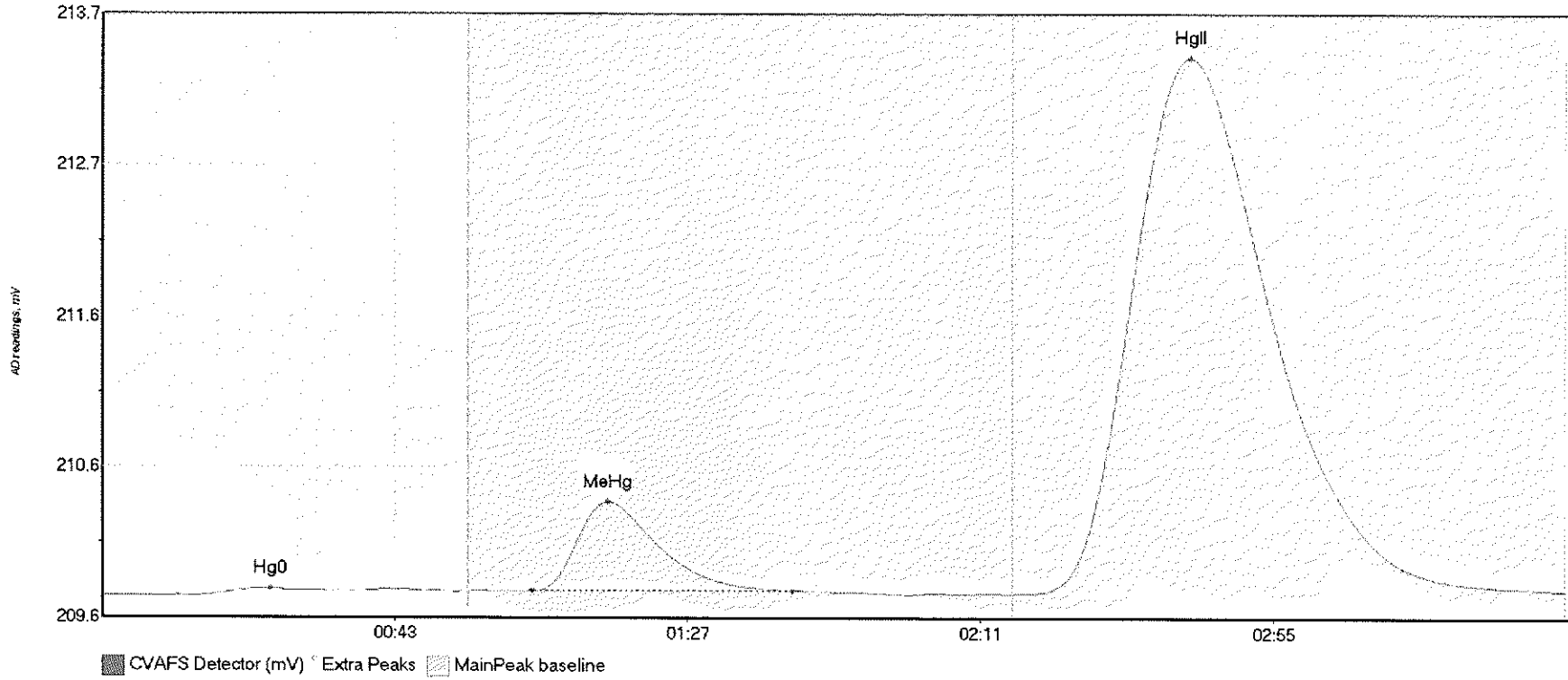
#80: 1708154-04RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708154-04RE1 H	6.347	14.8	47.5	209.75	209.78	25.3	0.049	OK	209.7439	0.00	0.06	
1708154-04RE1 M	110.825	63.6	107.7	209.77	209.78	76.3	0.781	OK	209.7439	0.00	0.06	
1708154-04RE1 H	1213.649	136.8	219.8	209.76	209.80	163.6	5.099	CT	209.7439	0.00	0.06	

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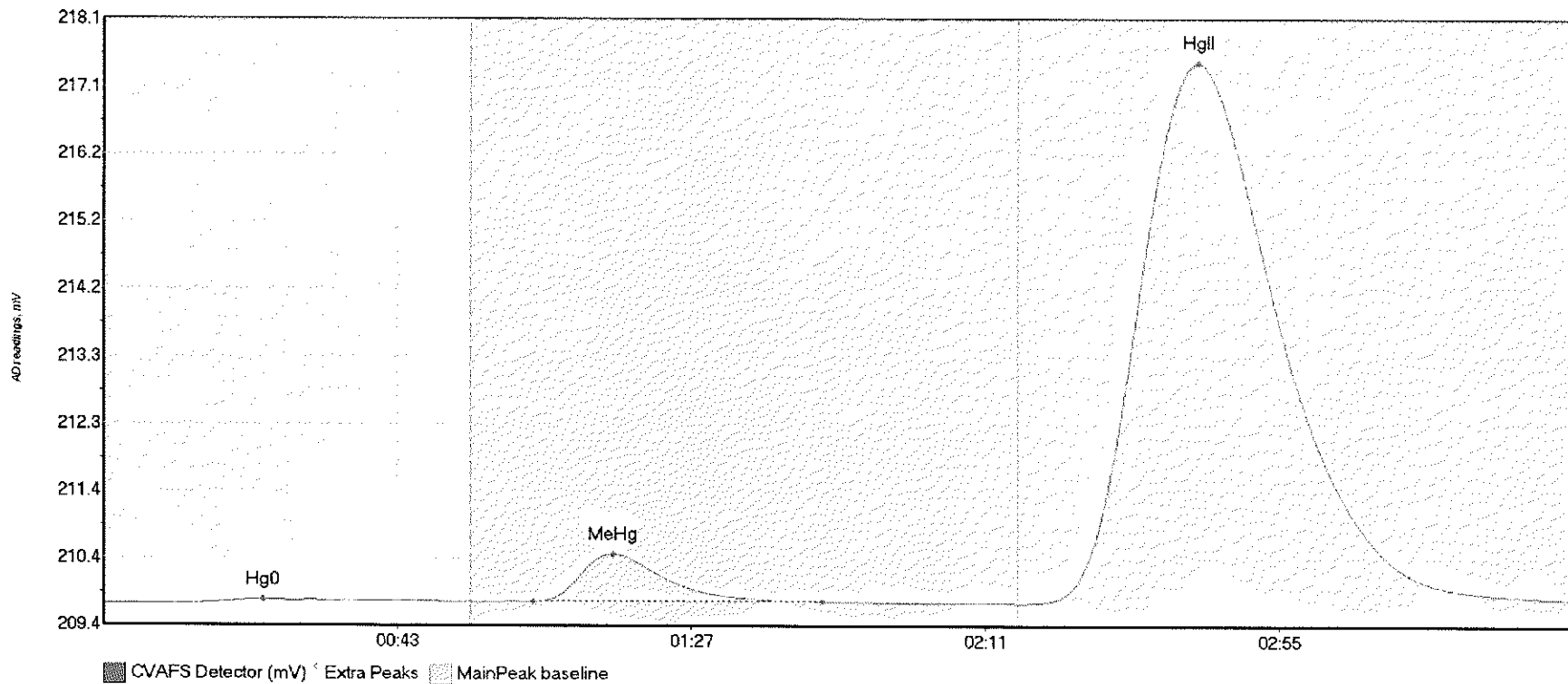
#81: 1708154-05RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708154-05RE1 H	7.829	14.0	53.2	209.75	209.78	25.3	0.046	OK	209.7449	0.00	0.04	
1708154-05RE1 M	84.834	64.6	103.7	209.78	209.78	76.0	0.606	OK	209.7449	0.00	0.04	
1708154-05RE1 H	866.644	139.8	219.8	209.77	209.79	163.5	3.636	CT	209.7449	0.00	0.04	

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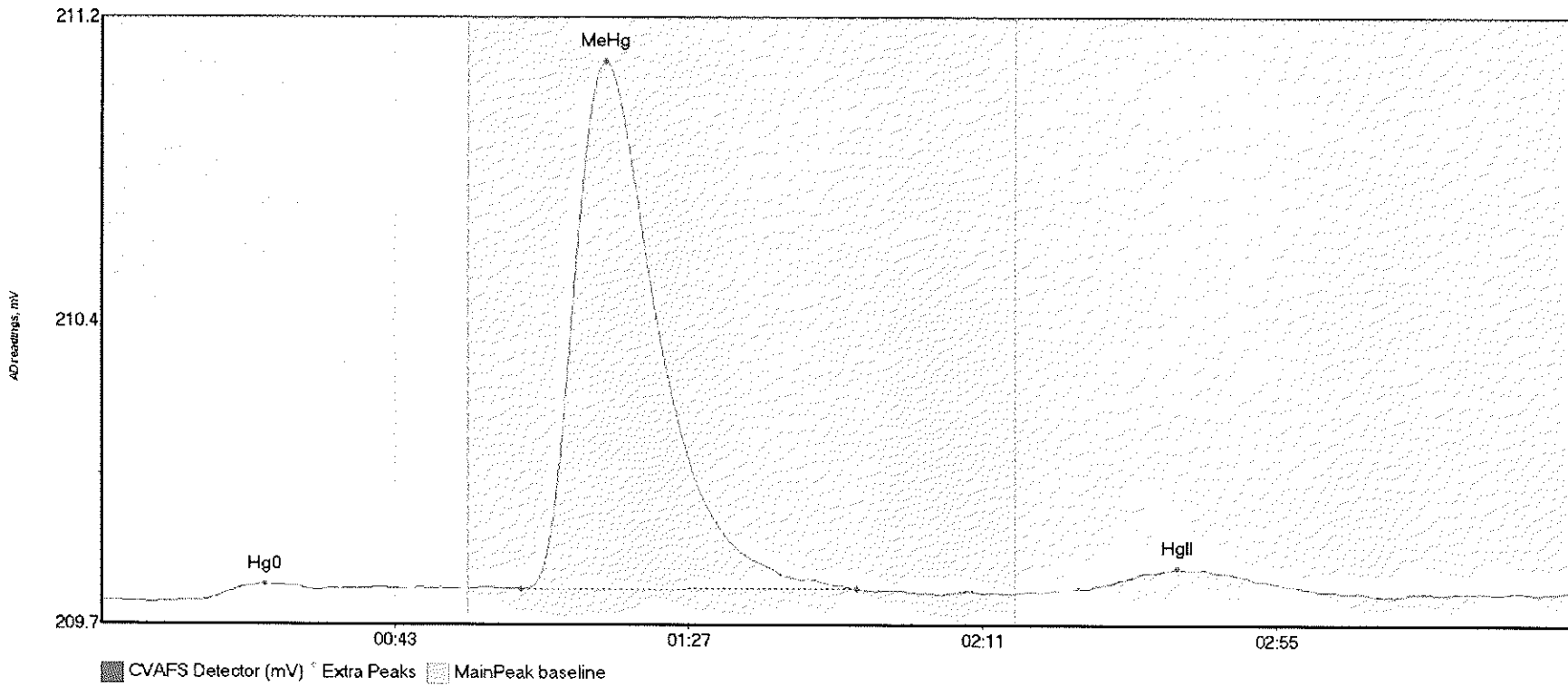
#82: 1708154-06RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708154-06RE1 H	9.898	13.1	52.0	209.74	209.77	23.9	0.053	OK	209.7387	0.00	0.08	
1708154-06RE1 M	96.856	64.3	107.6	209.77	209.77	76.3	0.675	OK	209.7387	0.00	0.08	
1708154-06RE1 H	1847.864	137.5	219.7	209.75	209.81	163.7	7.738	OK	209.7387	0.00	0.08	

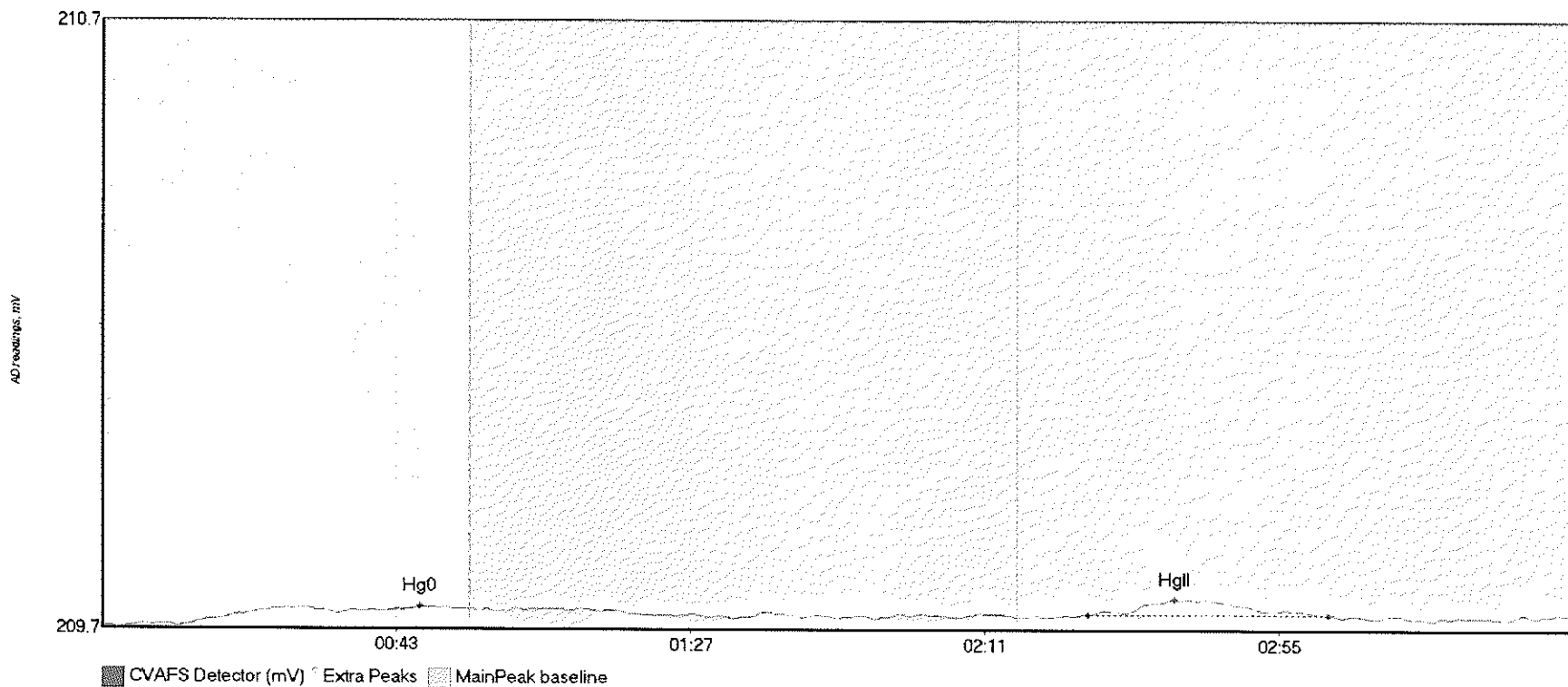


#83: SEQ-CCV7



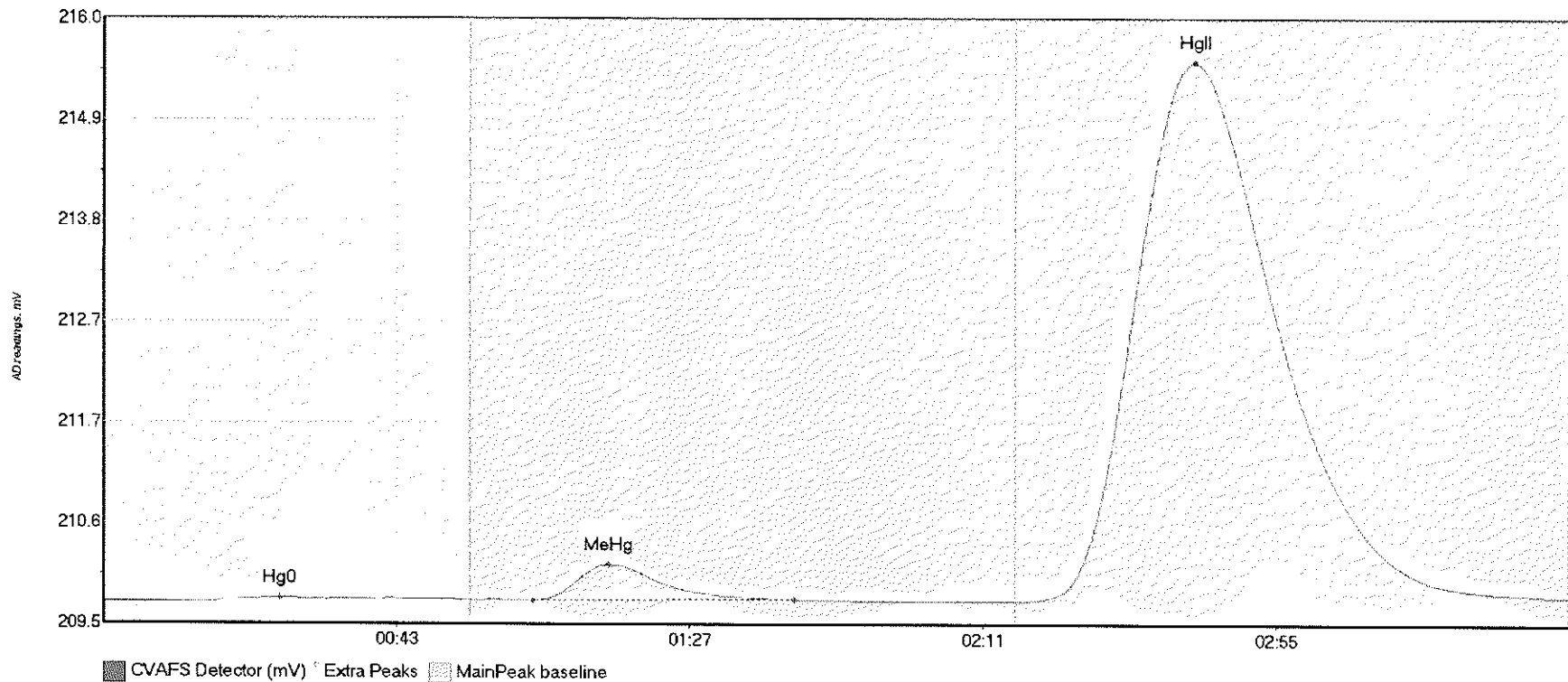
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV7 Hg0	2.701	14.4	32.3	209.73	209.76	24.6	0.041	OK	209.7327	0.00	0.02	
SEQ-CCV7 MeHg	189.814	62.9	113.1	209.76	209.76	75.6	1.300	OK	209.7327	0.00	0.02	
SEQ-CCV7 HgII	11.251	142.3	182.6	209.76	209.76	161.2	0.055	OK	209.7327	0.00	0.02	

#84: SEQ-CCB7



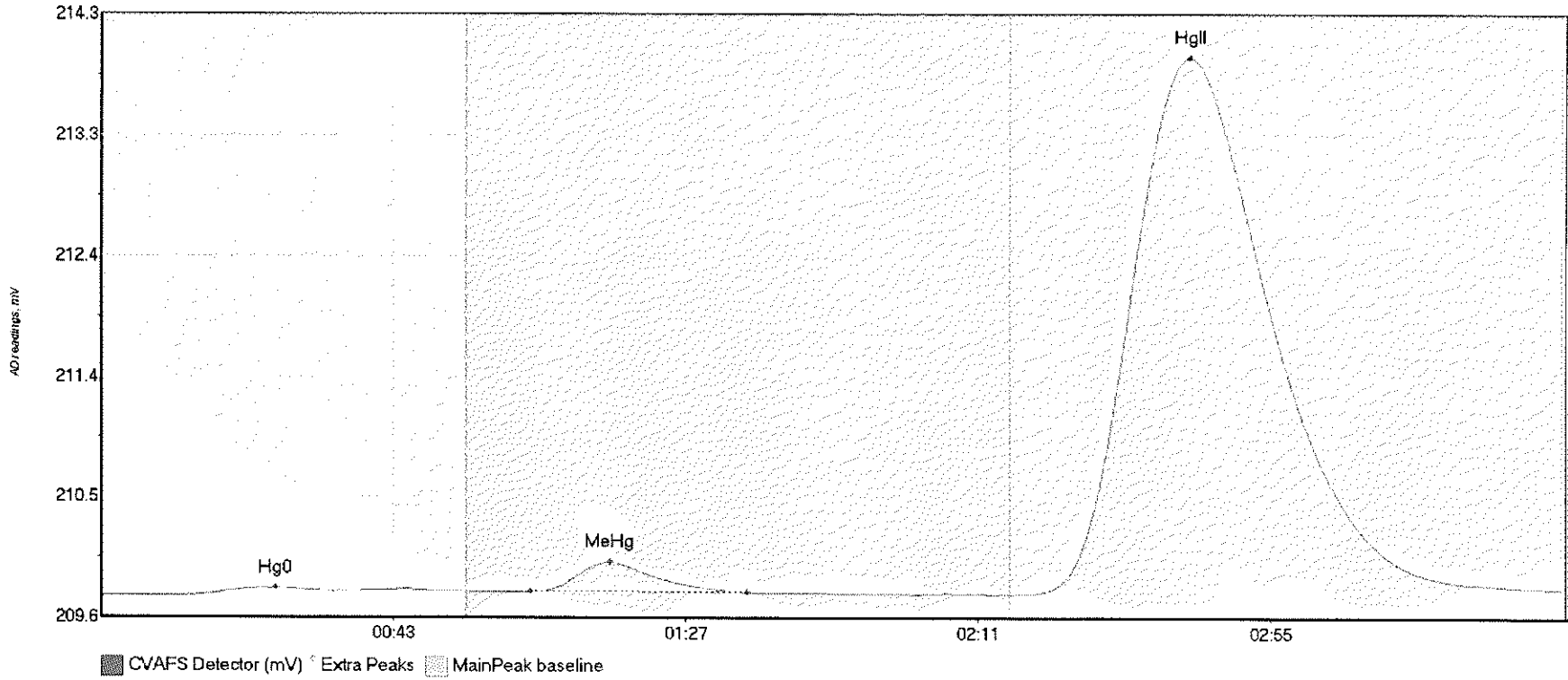
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB7 Hg0	3.605	12.4	52.9	209.73	209.76	47.6	0.030	OK	209.7277	0.00	0.02	
SEQ-CCB7 HgII	4.709	147.4	183.3	209.75	209.75	160.3	0.026	OK	209.7277	0.00	0.02	017

#85: 1708155-01RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708155-01RE1 H	7.252	15.8	54.5	209.73	209.75	26.4	0.039	OK	209.7350	0.00	0.06	
1708155-01RE1 M	53.889	64.4	103.8	209.75	209.76	75.9	0.378	OK	209.7350	0.00	0.06	
1708155-01RE1 H	1391.767	138.9	219.8	209.75	209.80	163.7	5.761	CT	209.7350	0.00	0.06	

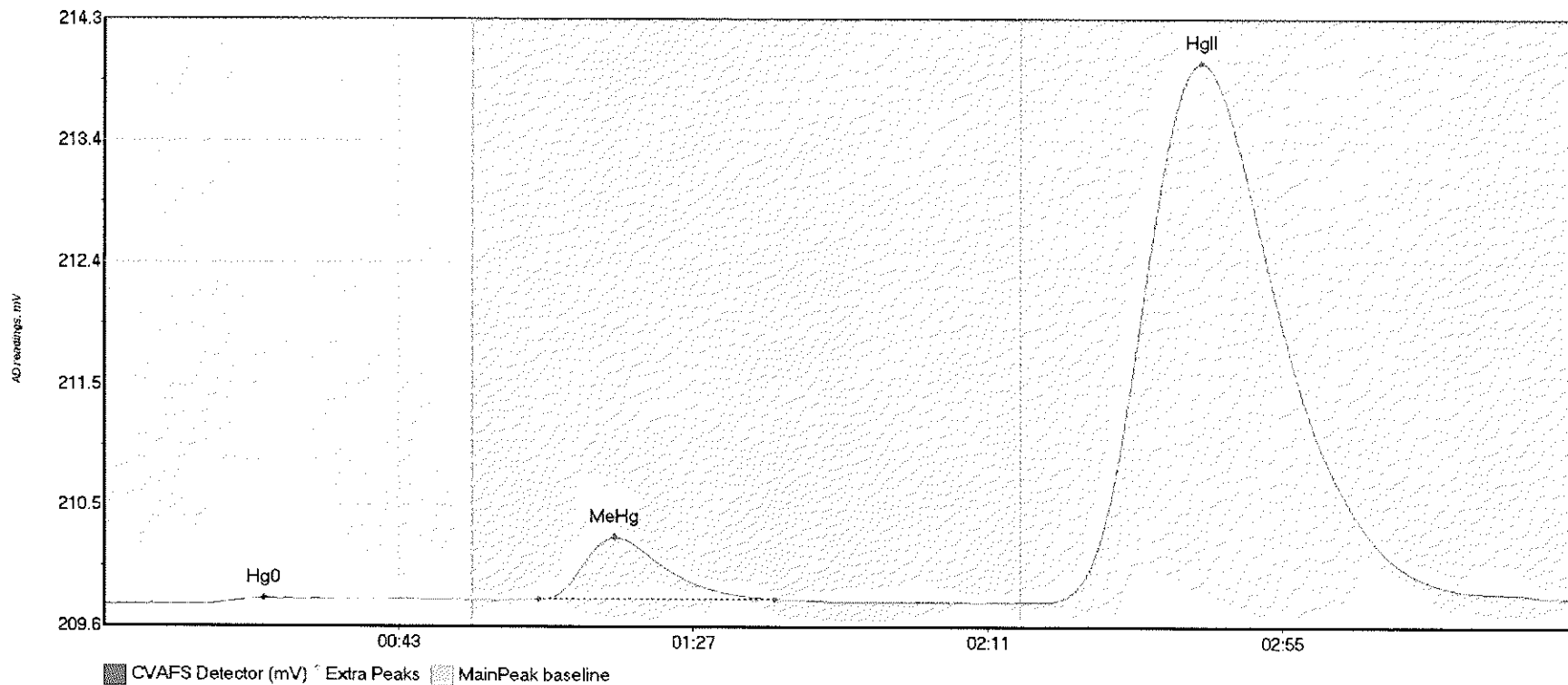
#86: 1708155-02RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708155-02RE1 H	4.851	10.8	35.0	209.73	209.77	26.3	0.060	OK	209.7293	0.00	0.05	
1708155-02RE1 M	30.626	64.6	97.3	209.76	209.76	76.6	0.228	OK	209.7293	0.00	0.05	
1708155-02RE1 H	996.907	138.4	219.7	209.74	209.78	163.9	4.182	OK	209.7293	0.00	0.05	

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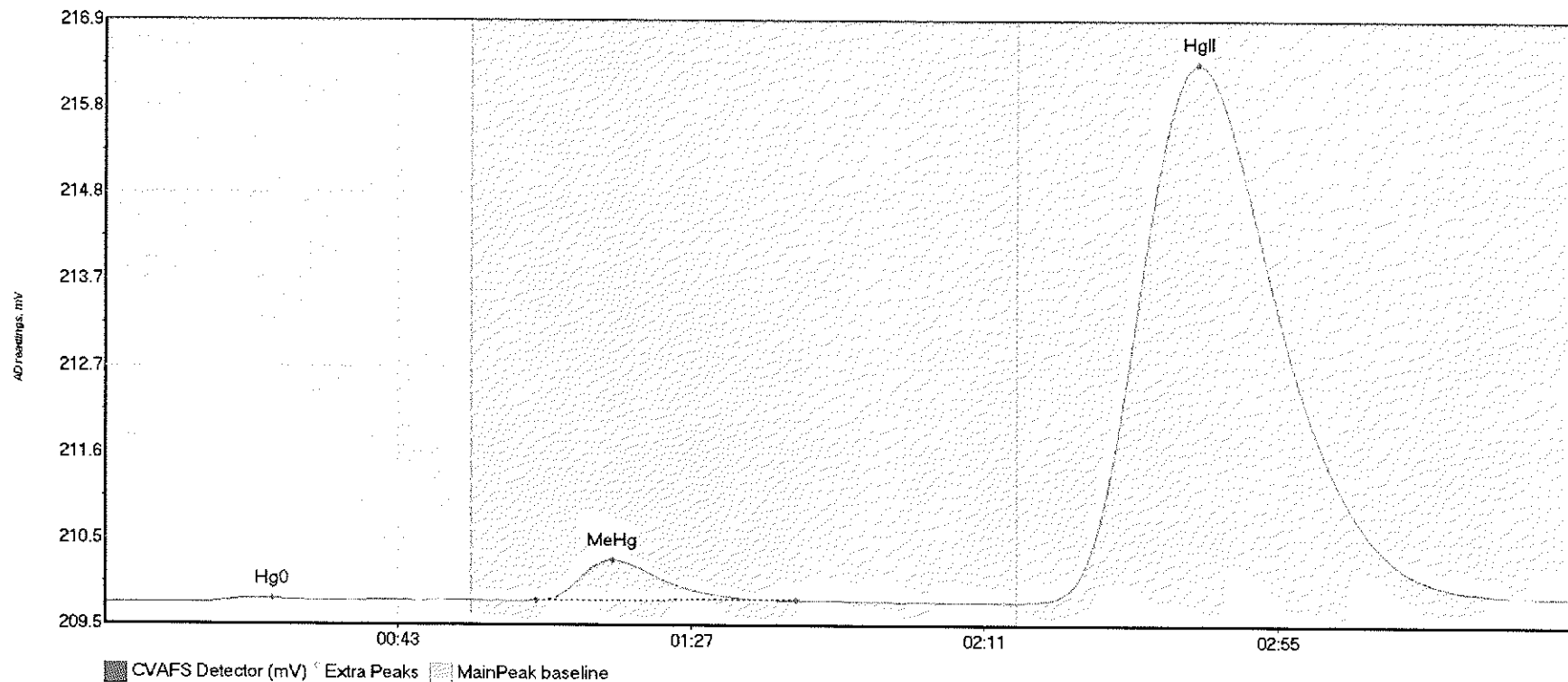
#87: 1708155-03RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708155-03RE1 H	7.931	14.6	54.1	209.73	209.76	23.9	0.049	OK	209.7324	0.00	0.06	
1708155-03RE1 M	66.744	64.9	100.2	209.77	209.77	76.3	0.485	OK	209.7324	0.00	0.06	
1708155-03RE1 H	993.485	140.5	218.0	209.75	209.79	163.8	4.222	OK	209.7324	0.00	0.06	

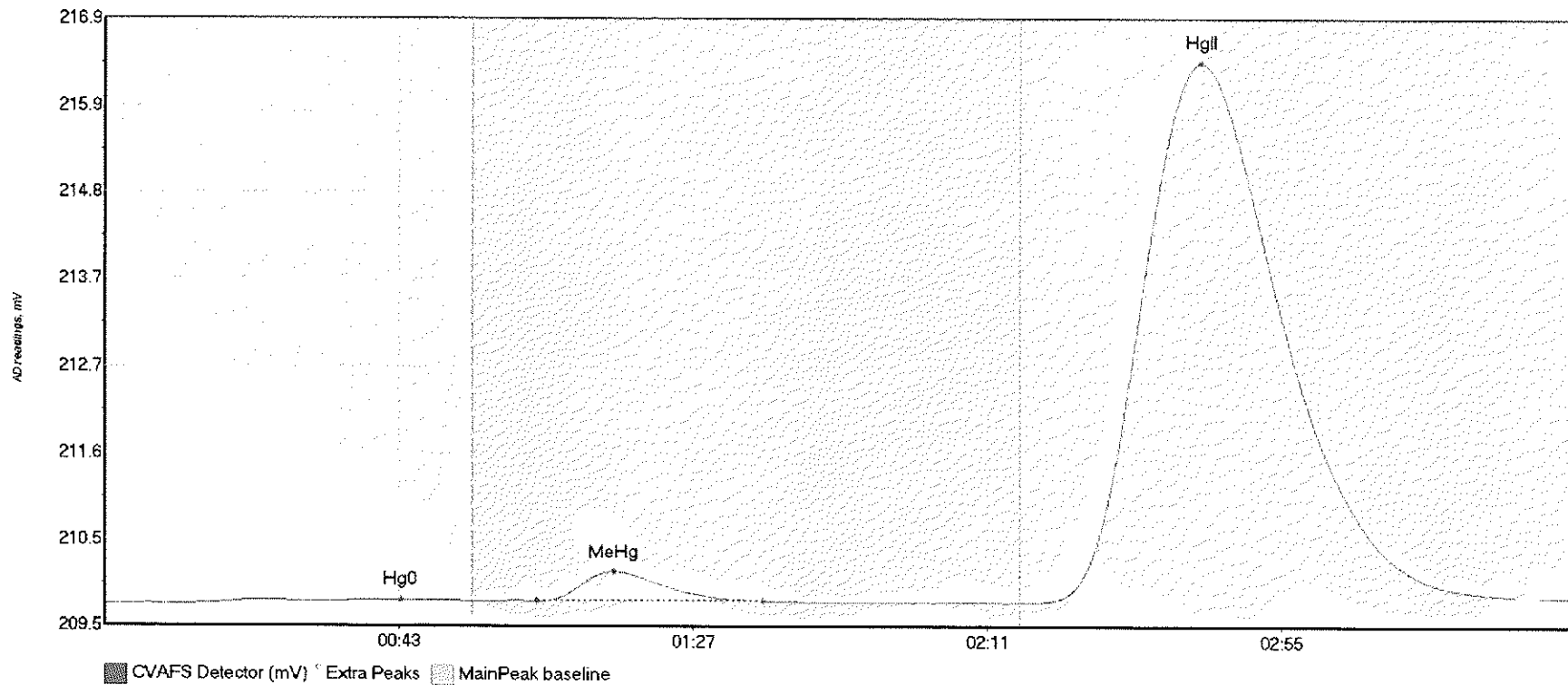
017

#88: 1708155-04RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708155-04RE1 H	4.191	14.2	35.4	209.74	209.77	25.1	0.051	OK	209.7458	0.00	0.08	
1708155-04RE1 M	69.370	64.7	103.7	209.77	209.78	76.2	0.498	OK	209.7458	0.00	0.08	
1708155-04RE1 H	1590.841	137.1	219.7	209.76	209.82	163.9	6.599	OK	209.7458	0.00	0.08	

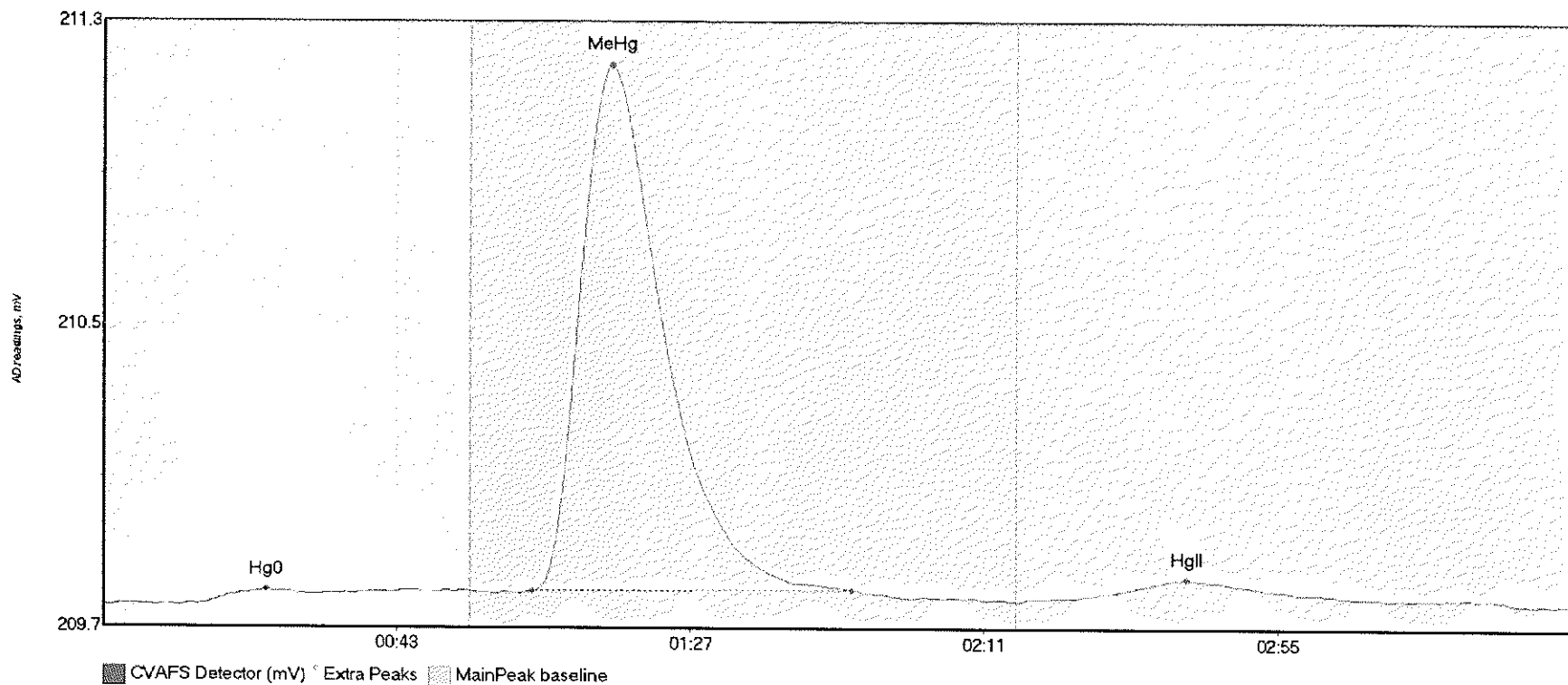
#89: 1708155-05RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708155-05RE1 H	8.394	10.0	55.0	209.75	209.79	44.3	0.052	CT	209.7467	0.00	0.08	
1708155-05RE1 M	49.954	64.6	98.5	209.79	209.79	76.2	0.364	OK	209.7467	0.00	0.08	
1708155-05RE1 H	1594.282	138.4	219.8	209.77	209.83	163.9	6.647	CT	209.7467	0.00	0.08	

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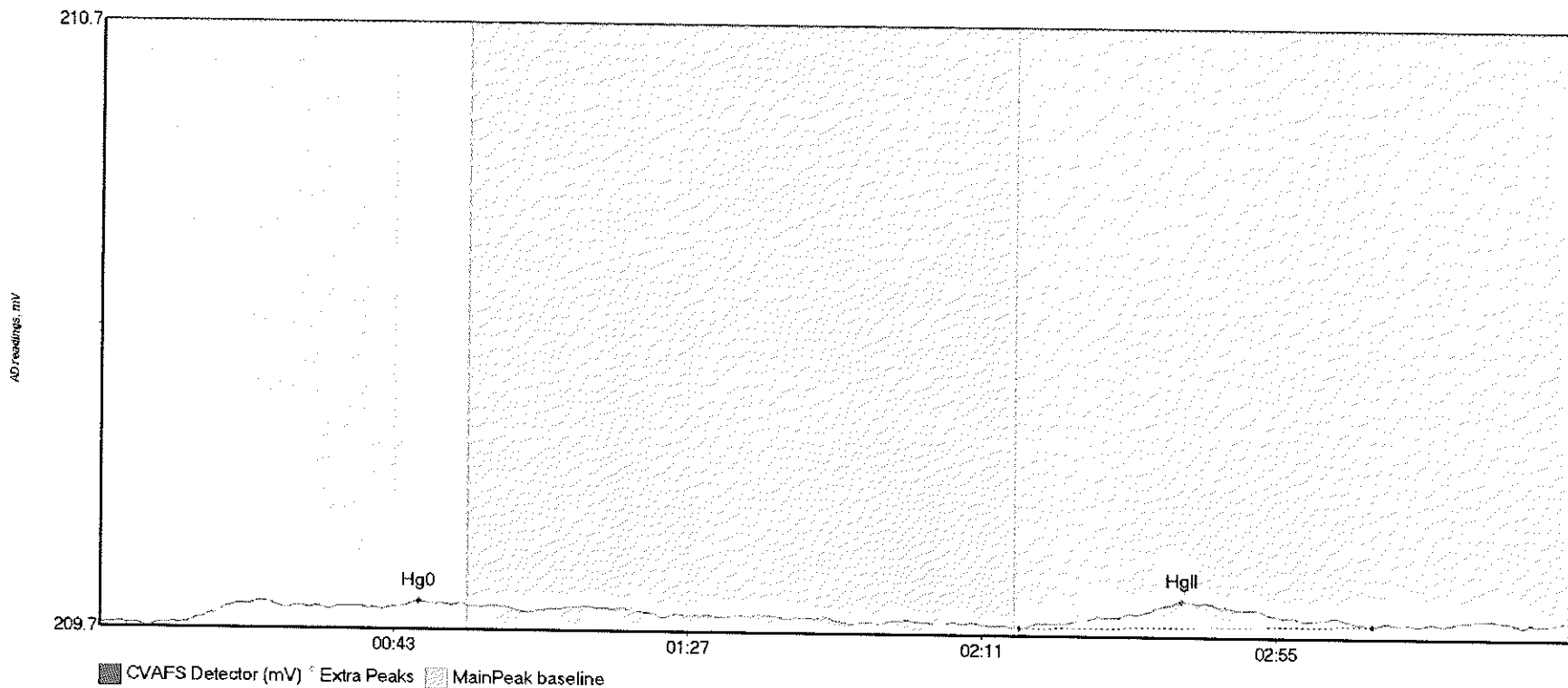
#80: SEQ-CCV8



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV8 Hg0	2.326	14.1	32.2	209.75	209.78	24.5	0.039	OK	209.7489	0.00	0.01	
SEQ-CCV8 MeHg	201.459	64.3	112.1	209.79	209.79	76.1	1.404	OK	209.7489	0.00	0.01	
SEQ-CCV8 HgII	12.258	141.2	192.3	209.77	209.77	162.3	0.055	OK	209.7489	0.00	0.01	



#91: SEQ-CCB8



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB8 Hg0	5.009	12.9	55.0	209.74	209.77	47.7	0.036	CT	209.7401	0.00	0.02	
SEQ-CCB8 HgII	10.816	137.6	190.5	209.74	209.75	161.9	0.048	OK	209.7401	0.00	0.02	017



Frontier Global Sciences

Analysis Datasheet for Total Mercury

Date of Analysis: August 28, 2017

Analyst: BC

Instrument #: Hg2600-2

Units ng/L

LIMS Sequence #: 7H29014, 7H29015, 7H29016

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.50 ng/L	72.47 units	144.94	66.72 units	133.44	95.9 %Rec
SEQ-CAL2	1	1.00 ng/L	139.79 units	139.79	134.04 units	134.04	96.3 %Rec
SEQ-CAL3	1	5.00 ng/L	718.12 units	143.62	712.37 units	142.47	102.4 %Rec
SEQ-CAL4	1	20.00 ng/L	2838.91 units	141.95	2833.16 units	141.66	101.8 %Rec
SEQ-CAL5	1	40.00 ng/L	5765.71 units	144.14	5759.96 units	144.00	103.5 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

**Corr. Mean RF**    **Corr. St Dev RF**    **Corr. RSD CF**    **Uncorr. Mean RF**  
 139.12            +/- 4.99            3.6% RSD            142.89

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	3	5.75 units	±3.78	0.04 ng/L	±0.03

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.055 ng/L	±0.041
BLK	2	2	1.995 ng/L	±0.641
BLK	3	3	10.871 ng/L	±1.779
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	
BLK	6	0	0.000 ng/L	

QUALITY ASSURANCE  
PEER-REVIEWED

INITIALS: BC 8/31/17

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber												
Hg2600-2	BC	CAL	SEQ-IBL1	1	8/28/2017 9:15:37	84033-1.RAW	9:15:37 AM	7.57			1.8	0.013	0.013	ng/L	
Hg2600-2	BC	CAL	SEQ-IBL2	1	8/28/2017 9:19:45	84034-1.RAW	9:19:45 AM	1.40			-4.4	-0.031	-0.031	ng/L	
Hg2600-2	BC	CAL	SEQ-IBL3	1	8/28/2017 9:23:53	84035-1.RAW	9:23:53 AM	8.28			2.5	0.018	0.018	ng/L	
Hg2600-2	BC	CAL	SEQ-CAL1	1	8/28/2017 9:28:02	84036-1.RAW	9:28:02 AM	72.47			66.7	0.480	0.480	ng/L	
Hg2600-2	BC	CAL	SEQ-CAL2	1	8/28/2017 9:32:10	84037-1.RAW	9:32:10 AM	139.79			134.0	0.963	0.963	ng/L	
Hg2600-2	BC	CAL	SEQ-CAL3	1	8/28/2017 9:36:19	84038-1.RAW	9:36:19 AM	718.12			712.4	5.120	5.120	ng/L	
Hg2600-2	BC	CAL	SEQ-CAL4	1	8/28/2017 9:40:27	84039-1.RAW	9:40:27 AM	2838.91			2833.2	20.365	20.365	ng/L	
Hg2600-2	BC	CAL	SEQ-CAL5	1	8/28/2017 9:44:36	84040-1.RAW	9:44:36 AM	5765.71			5760.0	41.402	41.402	ng/L	
Hg2600-2	BC	CAL	SEQ-ICV1	1	8/28/2017 9:48:44	84041-1.RAW	9:48:44 AM	755.63			749.9	5.390	5.390	ng/L	
Hg2600-2	BC	BLK	F708554-BLK1	1	8/28/2017 9:52:52	84042-1.RAW	9:52:52 AM	19.88	1		14.1	0.102	0.102	ng/L	
Hg2600-2	BC	BLK	F708554-BLK2	1	8/28/2017 9:57:01	84043-1.RAW	9:57:01 AM	11.18	1		5.4	0.039	0.039	ng/L	
Hg2600-2	BC	BLK	F708554-BLK3	1	8/28/2017 10:01:09	84044-1.RAW	10:01:09 AM	9.03	1		3.3	0.024	0.024	ng/L	
Hg2600-2	BC	SAM	F708554-BS1	1	8/28/2017 10:05:18	84045-1.RAW	10:05:18 AM	2289.89	1		2284.1	16.364	16.364	ng/L	
Hg2600-2	BC	SAM	F708554-BSD1	1	8/28/2017 10:09:26	84046-1.RAW	10:09:26 AM	2277.12	1		2271.4	16.272	16.272	ng/L	
Hg2600-2	BC	SAM	WS	1	8/28/2017 10:14:00	84047-1.RAW	10:14:00 AM	22.92		x	17.2	0.123	0.123	ng/L	
Hg2600-2	BC	SAM	1708443-05	1	8/28/2017 10:18:08	84048-1.RAW	10:18:08 AM	1252.26	1		1246.5	8.905	8.905	ng/L	
Hg2600-2	BC	SAM	1708443-19	1	8/28/2017 10:22:17	84049-1.RAW	10:22:17 AM	160.66	1		154.9	1.059	1.059	ng/L	
Hg2600-2	BC	SAM	1708443-27	1	8/28/2017 10:26:25	84050-1.RAW	10:26:25 AM	17.08	1		11.3	0.027	0.027	ng/L	
Hg2600-2	BC	SAM	1708443-21	1	8/28/2017 10:30:34	84051-1.RAW	10:30:34 AM	11.48	1		5.7	-0.014	-0.014	ng/L	
Hg2600-2	BC	CAL	SEQ-CCV1	1	8/28/2017 10:34:42	84052-1.RAW	10:34:42 AM	15.01	1		9.3	0.012	0.012	ng/L	
Hg2600-2	BC	CAL	SEQ-CCB1	1	8/28/2017 10:38:50	84053-1.RAW	10:38:50 AM	751.70			746.0	5.362	5.362	ng/L	
Hg2600-2	BC	SAM	1708443-25	1	8/28/2017 10:42:59	84054-1.RAW	10:42:59 AM	13.46			7.7	0.055	0.055	ng/L	
Hg2600-2	BC	SAM	1708443-29	1	8/28/2017 10:47:07	84055-1.RAW	10:47:07 AM	12.44	1		6.7	-0.007	-0.007	ng/L	
Hg2600-2	BC	SAM	1708443-31	1	8/28/2017 10:51:16	84056-1.RAW	10:51:16 AM	14.55	1		8.8	0.009	0.009	ng/L	
Hg2600-2	BC	SAM	1708645-01	1	8/28/2017 10:55:24	84057-1.RAW	10:55:24 AM	6.70	1		1.0	-0.048	-0.048	ng/L	
Hg2600-2	BC	SAM	1708679-09	2500	8/28/2017 10:59:32	84058-1.RAW	10:59:32 AM	8.59	1		2.8	-0.034	-0.034	ng/L	
Hg2600-2	BC	SAM	1708679-15	1	8/28/2017 11:03:41	84059-1.RAW	11:03:41 AM	1752.55	1		1746.8	12.556	31389.616	ng/L	
Hg2600-2	BC	SAM	1708679-16	1	8/28/2017 11:08:11	84060-1.RAW	11:08:11 AM	38.15	1		32.4	0.178	0.178	ng/L	
Hg2600-2	BC	SAM	1708679-21	1	8/28/2017 11:12:19	84061-1.RAW	11:12:19 AM	16.05	1		10.3	0.019	0.019	ng/L	
Hg2600-2	BC	SAM	1708680-02	10	8/28/2017 11:16:28	84062-1.RAW	11:16:28 AM	1.35	1		-4.4	-0.086	-0.086	ng/L	
Hg2600-2	BC	SAM	1708680-04	1	8/28/2017 11:20:36	84063-1.RAW	11:20:36 AM	1608.31	1		1602.6	11.514	115.136	ng/L	
Hg2600-2	BC	CAL	SEQ-CCV2	1	8/28/2017 11:24:44	84064-1.RAW	11:24:44 AM	1042.93	1		1037.2	7.400	7.400	ng/L	
Hg2600-2	BC	CAL	SEQ-CCB2	1	8/28/2017 11:28:53	84065-1.RAW	11:28:53 AM	729.21	1		723.5	5.200	5.200	ng/L	
Hg2600-2	BC	SAM	1708679-10	2500	8/28/2017 11:33:01	84066-1.RAW	11:33:01 AM	18.76			13.0	0.094	0.094	ng/L	
Hg2600-2	BC	SAM	1708679-11	2500	8/28/2017 11:37:10	84067-1.RAW	11:37:10 AM	1395.11	1		1389.4	9.987	24966.485	ng/L	
Hg2600-2	BC	SAM	1708679-12	2500	8/28/2017 11:41:18	84068-1.RAW	11:41:18 AM	1859.94	1		1854.2	13.328	33319.394	ng/L	
Hg2600-2	BC	SAM	1708679-13	2500	8/28/2017 11:45:26	84069-1.RAW	11:45:26 AM	1363.38	1		1357.6	9.759	24396.303	ng/L	
Hg2600-2	BC	SAM	1708679-14	2500	8/28/2017 11:49:35	84070-1.RAW	11:49:35 AM	1836.55	1		1830.8	13.160	32899.080	ng/L	
Hg2600-2	BC	SAM	1708679-14	2500	8/28/2017 11:53:43	84071-1.RAW	11:53:43 AM	1435.98	1		1430.2	10.280	25700.912	ng/L	
Hg2600-2	BC	SAM	F708554-DUP1	1	8/28/2017 11:57:52	84072-1.RAW	11:57:52 AM	1334.78	1		1329.0	9.498	9.498	ng/L	
Hg2600-2	BC	SAM	F708554-MS1	1	8/28/2017 12:02:00	84073-1.RAW	12:02:00 PM	4146.51	1		4140.8	29.709	29.709	ng/L	
Hg2600-2	BC	SAM	F708554-MSD1	1	8/28/2017 12:06:09	84074-1.RAW	12:06:09 PM	4274.67	1		4268.9	30.630	30.630	ng/L	
Hg2600-2	BC	SAM	F708554-MS2	2500	8/28/2017 12:10:17	84075-1.RAW	12:10:17 PM	4687.62	1		4681.9	33.653	84132.276	ng/L	
Hg2600-2	BC	SAM	F708554-MSD2	2500	8/28/2017 12:14:26	84076-1.RAW	12:14:26 PM	4612.67	1		4606.9	33.114	82785.439	ng/L	
Hg2600-2	BC	CAL	SEQ-CCV3	1	8/28/2017 12:18:34	84077-1.RAW	12:18:34 PM	819.64			813.9	5.850	5.850	ng/L	
Hg2600-2	BC	CAL	SEQ-CCB3	1	8/28/2017 12:22:42	84078-1.RAW	12:22:42 PM	44.80			39.1	0.281	0.281	ng/L	
Hg2600-2	BC	BLK	F708511-BLK1	10	8/28/2017 12:26:51	84079-1.RAW	12:26:51 PM	39.81	2		34.1	0.245	2.448	ng/L	
Hg2600-2	BC	BLK	F708511-BLK2	10	8/28/2017 12:30:59	84080-1.RAW	12:30:59 PM	27.19	2		21.4	0.154	1.541	ng/L	
Hg2600-2	BC	SAM	F708511-BS1	10	8/28/2017 12:35:08	84081-1.RAW	12:35:08 PM	2911.04	2		2905.3	20.684	206.835	ng/L	
Hg2600-2	BC	SAM	F708511-BSD1	10	8/28/2017 12:39:16	84082-1.RAW	12:39:16 PM	2866.92	2		2861.2	20.366	203.664	ng/L	
Hg2600-2	BC	SAM	1708151-18	50	8/28/2017 12:43:25	84083-1.RAW	12:43:25 PM	400.23	2		394.5	2.796	139.780	ng/L	
Hg2600-2	BC	SAM	1708151-19	50	8/28/2017 12:47:33	84084-1.RAW	12:47:33 PM	396.71	2		391.0	2.770	138.515	ng/L	
Hg2600-2	BC	SAM	1708151-20	50	8/28/2017 12:51:41	84085-1.RAW	12:51:41 PM	885.20	2		879.5	6.282	314.076	ng/L	
Hg2600-2	BC	SAM	1708151-21	50	8/28/2017 12:55:50	84086-1.RAW	12:55:50 PM	470.63	2		464.9	3.302	165.081	ng/L	
Hg2600-2	BC	SAM	1708151-22	50	8/28/2017 12:59:58	84087-1.RAW	12:59:58 PM	1240.38	2		1234.6	8.835	441.727	ng/L	
Hg2600-2	BC	SAM	1708151-23	50	8/28/2017 13:04:07	84088-1.RAW	1:04:07 PM	211.01	2		205.3	1.436	71.775	ng/L	
Hg2600-2	BC	CAL	SEQ-CCV4	1	8/28/2017 13:08:15	84089-1.RAW	1:08:15 PM	734.40			728.7	5.237	5.237	ng/L	

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-2	BC	CAL	SEQ-CCB4	1	8/28/2017 13:12:24	84090-1.RAW	1:12:24 PM	31.87			26.1	0.188	0.188	ng/L	
Hg2600-2	BC	SAM	1708151-24	50	8/28/2017 13:16:32	84091-1.RAW	1:16:32 PM	435.22	2		429.5	3.047	152.355	ng/L	
Hg2600-2	BC	SAM	1708151-25	50	8/28/2017 13:20:40	84092-1.RAW	1:20:40 PM	529.96	2		524.2	3.728	186.404	ng/L	
Hg2600-2	BC	SAM	1708151-26	50	8/28/2017 13:24:49	84093-1.RAW	1:24:49 PM	546.42	2		540.7	3.846	192.320	ng/L	
Hg2600-2	BC	SAM	1708151-27	50	8/28/2017 13:28:57	84094-1.RAW	1:28:57 PM	266.06	2		260.3	1.831	91.560	ng/L	
Hg2600-2	BC	SAM	1708151-28	50	8/28/2017 13:33:06	84095-1.RAW	1:33:06 PM	856.81	2		851.1	6.077	303.873	ng/L	
Hg2600-2	BC	SAM	1708151-29	50	8/28/2017 13:37:14	84096-1.RAW	1:37:14 PM	1097.41	2		1091.7	7.807	390.344	ng/L	
Hg2600-2	BC	SAM	1708151-30	50	8/28/2017 13:41:23	84097-1.RAW	1:41:23 PM	1208.33	2		1202.6	8.604	430.208	ng/L	
Hg2600-2	BC	SAM	1708151-31	50	8/28/2017 13:45:31	84098-1.RAW	1:45:31 PM	7829.19	2		7823.4	56.194	2809.721	ng/L	
Hg2600-2	BC	SAM	WS		8/28/2017 13:50:27	84100-1.RAW	1:50:27 PM	149.62	x		143.9	1.034	0.000	ng/L	
Hg2600-2	BC	SAM	1708151-32	50	8/28/2017 13:54:35	84099-2.RAW	1:54:35 PM	1853.42	2		1847.7	13.241	662.051	ng/L	
Hg2600-2	BC	SAM	1708151-33	50	8/28/2017 13:58:44	84101-1.RAW	1:58:44 PM	2893.95	2		2888.2	20.720	1036.014	ng/L	
Hg2600-2	BC	CAL	SEQ-CCV5	1	8/28/2017 14:02:52	84102-1.RAW	2:02:52 PM	786.23			780.5	5.610	5.610	ng/L	
Hg2600-2	BC	CAL	SEQ-CCB5	1	8/28/2017 14:07:00	84103-1.RAW	2:07:00 PM	34.89			29.1	0.209	0.209	ng/L	
Hg2600-2	BC	SAM	1708151-34	50	8/28/2017 14:11:09	84104-1.RAW	2:11:09 PM	2505.91	2		2500.2	17.931	896.554	ng/L	
Hg2600-2	BC	SAM	1708151-35	50	8/28/2017 14:15:17	84105-1.RAW	2:15:17 PM	2850.07	2		2844.3	20.405	1020.243	ng/L	
Hg2600-2	BC	SAM	1708151-36	50	8/28/2017 14:19:26	84106-1.RAW	2:19:26 PM	2302.26	2		2296.5	16.467	823.362	ng/L	
Hg2600-2	BC	SAM	1708151-37	50	8/28/2017 14:23:34	84107-1.RAW	2:23:34 PM	2173.13	2		2167.4	15.539	776.954	ng/L	
Hg2600-2	BC	SAM	1708151-31RE1	400	8/28/2017 14:27:42	84108-1.RAW	2:27:42 PM	1037.19	2		1031.4	7.409	2963.571	ng/L	
Hg2600-2	BC	SAM	F708511-MS1	400	8/28/2017 14:31:51	84109-1.RAW	2:31:51 PM	1030.32	2		1024.6	7.360	2943.818	ng/L	
Hg2600-2	BC	SAM	F708511-MSD1	400	8/28/2017 14:35:59	84110-1.RAW	2:35:59 PM	1029.56	2		1023.8	7.354	2941.633	ng/L	
Hg2600-2	BC	SAM	F708511-MS2	400	8/28/2017 14:40:08	84111-1.RAW	2:40:08 PM	194.29	2		188.5	1.350	540.090	ng/L	
Hg2600-2	BC	SAM	F708511-MSD2	400	8/28/2017 14:44:16	84112-1.RAW	2:44:16 PM	1001.85	2		996.1	7.155	2861.962	ng/L	
Hg2600-2	BC	SAM	F708511-MS3	400	8/28/2017 14:49:35	84113-1.RAW	2:49:35 PM	203.33	2		197.6	1.415	566.081	ng/L	
Hg2600-2	BC	CAL	SEQ-CCV6	1	8/28/2017 14:53:43	84114-1.RAW	2:53:43 PM	756.48			750.7	5.396	5.396	ng/L	
Hg2600-2	BC	CAL	SEQ-CCB6	1	8/28/2017 14:57:51	84115-1.RAW	2:57:51 PM	31.55			25.8	0.185	0.185	ng/L	
Hg2600-2	BC	SAM	F708511-MSD3	400	8/28/2017 15:02:00	84116-1.RAW	3:02:00 PM	974.86	2		969.1	6.961	2784.362	ng/L	
Hg2600-2	BC	SAM	WS		8/28/2017 15:10:53	84117-1.RAW	3:10:53 PM	68.95	x		63.2	0.454	0.000	ng/L	
Hg2600-2	BC	BLK	F708545-BLK1	100	8/28/2017 15:15:02	84118-1.RAW	3:15:02 PM	19.10	3		13.4	0.096	9.596	ng/L	
Hg2600-2	BC	BLK	F708545-BLK2	100	8/28/2017 15:19:10	84119-1.RAW	3:19:10 PM	23.70	3		18.0	0.129	12.902	ng/L	
Hg2600-2	BC	BLK	F708545-BLK3	100	8/28/2017 15:23:19	84120-1.RAW	3:23:19 PM	19.82	3		14.1	0.101	10.113	ng/L	
Hg2600-2	BC	SAM	F708545-BS1	100	8/28/2017 15:27:27	84121-1.RAW	3:27:27 PM	2948.38	3		2942.6	21.043	2104.270	ng/L	
Hg2600-2	BC	SAM	F708545-BSD1	100	8/28/2017 15:31:35	84122-1.RAW	3:31:35 PM	3105.84	3		3100.1	22.175	2217.451	ng/L	
Hg2600-2	BC	SAM	1708483-01	100	8/28/2017 15:35:44	84123-1.RAW	3:35:44 PM	1704.95	3		1699.2	12.105	1210.502	ng/L	
Hg2600-2	BC	SAM	1708483-02	100	8/28/2017 15:39:52	84124-1.RAW	3:39:52 PM	1331.93	3		1326.2	9.424	942.378	ng/L	
Hg2600-2	BC	SAM	1708483-03	100	8/28/2017 15:44:01	84125-1.RAW	3:44:01 PM	147.13	3		141.4	0.908	90.752	ng/L	
Hg2600-2	BC	SAM	F708545-DUP1	100	8/28/2017 15:55:44	84126-1.RAW	3:55:44 PM	1374.74	3		1369.0	9.731	973.149	ng/L	
Hg2600-2	BC	CAL	SEQ-CCV7	1	8/28/2017 15:59:52	84127-1.RAW	3:59:52 PM	762.02			756.3	5.436	5.436	ng/L	
Hg2600-2	BC	CAL	SEQ-CCB7	1	8/28/2017 16:04:00	84128-1.RAW	4:04:00 PM	34.70			29.0	0.208	0.208	ng/L	
Hg2600-2	BC	SAM	F708545-MS1	100	8/28/2017 16:08:09	84129-1.RAW	4:08:09 PM	4181.14	3		4175.4	29.904	2990.369	ng/L	
Hg2600-2	BC	SAM	F708545-MSD1	100	8/28/2017 16:12:17	84130-1.RAW	4:12:17 PM	4150.15	3		4144.4	29.681	2968.093	ng/L	
Hg2600-2	BC	CAL	SEQ-CCV8	1	8/28/2017 16:16:26	84131-1.RAW	4:16:26 PM	825.84			820.1	5.895	5.895	ng/L	
Hg2600-2	BC	CAL	SEQ-CCB8	1	8/28/2017 16:20:34	84132-1.RAW	4:20:34 PM	48.43			42.7	0.307	0.307	ng/L	

TotalMercury EPA1631  
 Operat BC  
 BlankS: 5.7506 Calib Eqn:  
 Worksh THg260( CalibFa 139.12 Status:  
 Method ##### R: 1 R<sup>2</sup>:  
 Descrip THg26002-170828-1

Conc = (Area-5.7506) / (CalibFa-139.12) \* R<sup>2</sup>  
 Run Date: 8/28/2017  
 Run Time: 15:51:34  
 QC Warnings:13/QC  
 0.9999

Blank SD: 3.785648781  
 Blank RSD%: 65.83027105  
 CF SD: 4.988937271  
 CF RSD%: 3.586013694

Sample/ID	Location	Rinse	Dilute	Blank	Conc (ppt)	MB%	FinalConc	Rec%	QA	RawData	RunEnd	Peak (Raw)	Control (etf)	Flags	RunCount
Clean				0.00	14.10					84028-1.RAW	8:56:12	1962.18	Clean	OK	1
clean				0.00	0.01					84029-1.RAW	8:59:03	1.51	Clean	OK	1
ws				5.75	0.06					84030-1.RAW	9:03:11	14.40	Sample	OK	1
ws				5.75	0.00					84031-1.RAW	9:07:20	4.80	Sample	OK	1
ws				5.75	0.00					84032-1.RAW	9:11:28	1.98	Sample	OK	1
SEQ-IBL1	A1		1	0.00	0.05					84033-1.RAW	9:15:37	7.57	Sample	OK	1
SEQ-IBL2	A2		1	0.00	0.01					84034-1.RAW	9:19:45	1.40	Sample	OK	1
SEQ-IBL3	A3		1	0.00	0.06					84035-1.RAW	9:23:53	8.28	Sample	OK	1
SEQ-CAL1	A4		1	5.75	0.48		95.92			84036-1.RAW	9:28:02	72.47	Sample	OK	1
SEQ-CAL2	A5		1	5.75	0.96		96.34			84037-1.RAW	9:32:10	139.79	Sample	OK	1
SEQ-CAL3	A6		1	5.75	5.12		102.41			84038-1.RAW	9:36:19	718.12	Sample	OK	1
SEQ-CAL4	A7		1	5.75	20.36		101.82			84039-1.RAW	9:40:27	2838.91	Sample	OK	1
SEQ-CAL5	A8		1	5.75	41.40		103.51			84040-1.RAW	9:44:36	5765.71	Sample	OK	1
SEQ-ICV1	A9		1	5.75	5.39		107.80			84041-1.RAW	9:48:44	755.63	Sample	OK	1
F708554-BLK1	A10		1	5.75	0.10					84042-1.RAW	9:52:52	19.88	Sample	OK	1
F708554-BLK2	A11		1	5.75	0.04					84043-1.RAW	9:57:01	11.18	Sample	OK	1
F708554-BLK3	A12		1	5.75	0.02					84044-1.RAW	10:01:09	9.03	Sample	OK	1
F708554-BS1	A13		1	5.75	16.42					84045-1.RAW	10:05:18	2289.89	Sample	OK	1
F708554-BSD1	A14		1	5.75	16.33					84046-1.RAW	10:09:26	2277.12	Sample	OK	1
WS			1	5.75	0.12					84047-1.RAW	10:14:00	22.92	Sample	OK	1
1708443-05	A15		1	5.75	8.96					84048-1.RAW	10:18:08	1252.26	Sample	OK	1
1708443-19	A16		1	5.75	1.11					84049-1.RAW	10:22:17	160.66	Sample	OK	1
1708443-27	A17		1	5.75	0.08					84050-1.RAW	10:26:25	17.08	Sample	OK	1
1708443-21	A18		1	5.75	0.04					84051-1.RAW	10:30:34	11.48	Sample	OK	1
1708443-23	A19		1	5.75	0.07					84052-1.RAW	10:34:42	15.01	Sample	OK	1
SEQ-CCV1	A20		1	5.75	5.36		107.24			84053-1.RAW	10:38:50	751.70	Sample	OK	1
SEQ-CCB1	A21		1	5.75	0.06		0.00			84054-1.RAW	10:42:59	13.46	Sample	OK	1
1708443-25	B1		1	5.75	0.05					84055-1.RAW	10:47:07	12.44	Sample	OK	1
1708443-29	B2		1	5.75	0.06					84056-1.RAW	10:51:16	14.55	Sample	OK	1
1708443-31	B3		1	5.75	0.01					84057-1.RAW	10:55:24	6.70	Sample	OK	1
1708645-01	B4		1	5.75	0.02					84058-1.RAW	10:59:32	8.59	Sample	OK	1
1708679-09	B5		2500	5.75	31389.68					84059-1.RAW	11:03:41	1752.55	Sample	OK	1
1708679-15	B6		1	5.75	0.23					84060-1.RAW	11:08:11	38.15	Sample	OK	1
1708679-16	B7		1	5.75	0.07					84061-1.RAW	11:12:19	16.05	Sample	OK	1
1708679-21	B8		1	5.75	0.00					84062-1.RAW	11:16:28	1.35	Sample	OK	1
1708680-02	B9		10	5.75	115.19					84063-1.RAW	11:20:36	1608.31	Sample	OK	1
1708680-04	B10		1	5.75	7.46					84064-1.RAW	11:24:44	1042.93	Sample	OK	1
SEQ-CCV2	B11		1	5.75	5.20		104.00			84065-1.RAW	11:28:53	729.21	Sample	OK	1
SEQ-CCB2	B12		1	5.75	0.09		0.00			84066-1.RAW	11:33:01	18.76	Sample	OK	1
1708679-10	B13		2500	5.75	24966.48					84067-1.RAW	11:37:10	1395.11	Sample	OK	1
1708679-11	B14		2500	5.75	33319.47					84068-1.RAW	11:41:18	1859.94	Sample	OK	1
1708679-12	B15		2500	5.75	24396.34					84069-1.RAW	11:45:26	1363.38	Sample	OK	1
1708679-13	B16		2500	5.75	32899.08					84070-1.RAW	11:49:35	1836.55	Sample	OK	1
1708679-14	B17		2500	5.75	25700.99					84071-1.RAW	11:53:43	1435.98	Sample	OK	1
F708554-DUP1	B18		1	5.75	9.55					84072-1.RAW	11:57:52	1334.78	Sample	OK	1

F708554-MS1	B19	1	5.75	29.76	282.04	84073-1.RAW	12:02:00	4146.51	Sample	OK	1
F708554-MSD1	B20	1	5.75	30.68		84074-1.RAW	12:06:09	4274.67	Sample	OK	1
F708554-MS2	B21	2500	5.75	84132.30	257405.61	84075-1.RAW	12:10:17	4687.62	Sample	OK	1
F708554-MSD2	C1	2500	5.75	82785.56		84076-1.RAW	12:14:26	4612.67	Sample	FB	1
SEQ-CCV3	C2	1	5.75	5.85	117.00	84077-1.RAW	12:18:34	819.64	Sample	OK	1
SEQ-CCB3	C3	1	5.75	0.28	0.00	84078-1.RAW	12:22:42	44.80	Sample	OK	1
F708511-BLK1	C4	10	5.75	2.45		84079-1.RAW	12:26:51	39.81	Sample	OK	1
F708511-BLK2	C5	10	5.75	1.54		84080-1.RAW	12:30:59	27.19	Sample	OK	1
F708511-BS1	C6	10	5.75	208.83		84081-1.RAW	12:35:08	2911.04	Sample	OK	1
F708511-BSD1	C7	10	5.75	205.66		84082-1.RAW	12:39:16	2866.92	Sample	OK	1
1708151-18	C8	50	5.75	141.77		84083-1.RAW	12:43:25	400.23	Sample	OK	1
1708151-19	C9	50	5.75	140.51		84084-1.RAW	12:47:33	396.71	Sample	OK	1
1708151-20	C10	50	5.75	316.07		84085-1.RAW	12:51:41	885.20	Sample	OK	1
1708151-21	C11	50	5.75	167.08		84086-1.RAW	12:55:50	470.63	Sample	OK	1
1708151-22	C12	50	5.75	443.72		84087-1.RAW	12:59:58	1240.38	Sample	OK	1
1708151-23	C13	50	5.75	73.77		84088-1.RAW	13:04:07	211.01	Sample	OK	1
SEQ-CCV4	C14	1	5.75	5.24	104.75	84089-1.RAW	13:08:15	734.40	Sample	OK	1
SEQ-CCB4	C15	1	5.75	0.19	0.00	84090-1.RAW	13:12:24	31.87	Sample	OK	1
1708151-24	C16	50	5.75	154.35		84091-1.RAW	13:16:32	435.22	Sample	OK	1
1708151-25	C17	50	5.75	188.40		84092-1.RAW	13:20:40	529.96	Sample	OK	1
1708151-26	C18	50	5.75	194.32		84093-1.RAW	13:24:49	546.42	Sample	OK	1
1708151-27	C19	50	5.75	93.56		84094-1.RAW	13:28:57	266.06	Sample	OK	1
1708151-28	C20	50	5.75	305.87		84095-1.RAW	13:33:06	856.81	Sample	OK	1
1708151-29	C21	50	5.75	392.34		84096-1.RAW	13:37:14	1097.41	Sample	OK	1
1708151-30	A1	50	5.75	432.20		84097-1.RAW	13:41:23	1208.33	Sample	OK	1
1708151-31	A2	50	5.75	2811.72		84098-1.RAW	13:45:31	7829.19	Sample	OK	1
WS			5.75	1.03		84100-1.RAW	13:50:27	149.62	Sample	OK	1
1708151-32	A3	50	5.75	664.05		84099-2.RAW	13:54:35	1853.42	Sample	OK	1
1708151-33	A4	50	5.75	1038.01		84101-1.RAW	13:58:44	2893.95	Sample	OK	1
SEQ-CCV5	A5	1	5.75	5.61	112.20	84102-1.RAW	14:02:52	786.23	Sample	OK	1
SEQ-CCB5	A6	1	5.75	0.21	0.00	84103-1.RAW	14:07:00	34.89	Sample	OK	1
1708151-34	A7	50	5.75	898.55		84104-1.RAW	14:11:09	2505.91	Sample	OK	1
1708151-35	A8	50	5.75	1022.24		84105-1.RAW	14:15:17	2850.07	Sample	OK	1
1708151-36	A9	50	5.75	825.36		84106-1.RAW	14:19:26	2302.26	Sample	OK	1
1708151-37	A10	50	5.75	778.95		84107-1.RAW	14:23:34	2173.13	Sample	OK	1
1708151-31RE1	A11	400	5.75	2965.56		84108-1.RAW	14:27:42	1037.19	Sample	OK	1
F708511-MS1	A12	400	5.75	2945.82	99.30	84109-1.RAW	14:31:51	1030.32	Sample	OK	1
F708511-MSD1	A13	400	5.75	2943.62		84110-1.RAW	14:35:59	1029.56	Sample	OK	1
F708511-MS2	A14	400	5.75	542.09	18.40	84111-1.RAW	14:40:08	194.29	Sample	OK	1
F708511-MSD2	A15	400	5.75	2863.95		84112-1.RAW	14:44:16	1001.85	Sample	OK	1
F708511-MS3	A16	400	5.75	568.07	19.81	84113-1.RAW	14:49:35	203.33	Sample	OK	1
SEQ-CCV6	A17	1	5.75	5.40	107.92	84114-1.RAW	14:53:43	756.48	Sample	OK	1
SEQ-CCB6	A18	1	5.75	0.19	0.00	84115-1.RAW	14:57:51	31.55	Sample	OK	1
F708511-MSD3	A19	400	5.75	2786.35		84116-1.RAW	15:02:00	974.86	Sample	OK	1
WS			5.75	0.45		84117-1.RAW	15:10:53	68.95	Sample	OK	1
F708545-BLK1	A20	100	5.75	9.60		84118-1.RAW	15:15:02	19.10	Sample	OK	1
F708545-BLK2	A21	100	5.75	12.90		84119-1.RAW	15:19:10	23.70	Sample	OK	1
F708545-BLK3	B1	100	5.75	10.12		84120-1.RAW	15:23:19	19.82	Sample	OK	1
F708545-BS1	B2	100	5.75	2115.14		84121-1.RAW	15:27:27	2948.38	Sample	OK	1
F708545-BSD1	B3	100	5.75	2228.32		84122-1.RAW	15:31:35	3105.84	Sample	OK	1

1708483-01	B4	100	5.75	1221.37		84123-1.RAW	15:35:44	1704.95	Sample	OK	1
1708483-02	B5	100	5.75	953.25		84124-1.RAW	15:39:52	1331.93	Sample	OK	1
1708483-03	B6	100	5.75	101.62		84125-1.RAW	15:44:01	147.13	Sample	OK	1
F708545-DUP1	B7	100	5.75	984.02		84126-1.RAW	15:55:44	1374.74	Sample	OK	1
SEQ-CCV7	B8	1	5.75	5.44	108.72	84127-1.RAW	15:59:52	762.02	Sample	OK	1
SEQ-CCB7	B9	1	5.75	0.21	0.00	84128-1.RAW	16:04:00	34.70	Sample	OK	1
F708545-MS1	B10	100	5.75	3001.24	248422.03	84129-1.RAW	16:08:09	4181.14	Sample	OK	1
F708545-MSD1	B11	100	5.75	2978.97		84130-1.RAW	16:12:17	4150.15	Sample	OK	1
SEQ-CCV8	B12	1	5.75	5.89	117.89	84131-1.RAW	16:16:26	825.84	Sample	OK	1
SEQ-CCB8	B13	1	5.75	0.31	0.00	84132-1.RAW	16:20:34	48.43	Sample	OK	1

ANALYSIS SEQUENCE

QUALITY ASSURANCE

PEER-REVIEWED

7H29014



Instrument: Hg2600-2

Calibration ID: UNASSIGNED

INITIALS: *nr* 8/31/17 Analyzed: 8/28/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H29014-IBL1 ✓	QC	1			
7H29014-IBL2 ✓	QC	2			
7H29014-IBL3 ✓	QC	3			
7H29014-CAL1 ✓	QC	4	1704505 ✓		
7H29014-CAL2 ✓	QC	5	1704506 ✓		
7H29014-CAL3 ✓	QC	6	1704507 ✓		
7H29014-CAL4 ✓	QC	7	1704508 ✓		
7H29014-CAL5 ✓	QC	8	1704509 ✓		
7H29014-ICV1 ✓	QC	9	1703679 ✓		
7H29014-CCV1 ✓	QC	10	1703679 ✓		
7H29014-CCB1 ✓	QC	11			
7H29014-CCV2 ✓	QC	12	1703679 ✓		
7H29014-CCB2 ✓	QC	13			
7H29014-CCV3 ✓	QC	14	1703679 ✓		
7H29014-CCB3 ✓	QC	15			
F708511-BLK1 ✓	QC	16			
F708511-BLK2 ✓	QC	17			
F708511-BS1 ✓	QC	18			
F708511-BSD1 ✓	QC	19			
1708151-18 ✓	Hg-CVAFS-S-7474	20			
1708151-19 ✓	Hg-CVAFS-S-7474	21			
1708151-20 ✓	Hg-CVAFS-S-7474	22			
1708151-21 ✓	Hg-CVAFS-S-7474	23			
1708151-22 ✓	Hg-CVAFS-S-7474	24			
1708151-23 ✓	Hg-CVAFS-S-7474	25			
7H29014-CCV4 ✓	QC	26	1703679 ✓		
7H29014-CCB4 ✓	QC	27			
1708151-24 ✓	Hg-CVAFS-S-7474	28			
1708151-25 ✓	Hg-CVAFS-S-7474	29			
1708151-26 ✓	Hg-CVAFS-S-7474	30			
1708151-27 ✓	Hg-CVAFS-S-7474	31			
1708151-28 ✓	Hg-CVAFS-S-7474	32			
1708151-29 ✓	Hg-CVAFS-S-7474	33			
1708151-30 ✓	Hg-CVAFS-S-7474	34			
1708151-31 ✓	Hg-CVAFS-S-7474	35			



**ANALYSIS SEQUENCE**

**7H29014**



**Instrument: Hg2600-2**

**Calibration ID: UNASSIGNED**

**Analyzed: 8/28/2017**

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708151-32 ✓	Hg-CVAFS-S-7474	36			
1708151-33 ✓	Hg-CVAFS-S-7474	37			
7H29014-CCV5 ✓	QC	38	1703679	✓	
7H29014-CCB5 ✓	QC	39			
1708151-34 ✓	Hg-CVAFS-S-7474	40			
1708151-35 ✓	Hg-CVAFS-S-7474	41			
1708151-36 ✓	Hg-CVAFS-S-7474	42			
1708151-37 ✓	Hg-CVAFS-S-7474	43			
1708151-31RE1 ✓	Hg-CVAFS-S-7474	44			
F708511-MS1 ✓	QC	45			
F708511-MSD1 ✓	QC	46			
F708511-MS2 ✓	QC	47			
F708511-MSD2 ✓	QC	48			
F708511-MS3 ✓	QC	49			
7H29014-CCV6 ✓	QC	50	1703679	✓	
7H29014-CCB6 ✓	QC	51			
F708511-MSD3 ✓	QC	52			
7H29014-CCV7 ✓	QC	53	1703679	✓	
7H29014-CCB7 ✓	QC	54			

*Becky*      8/28/17  
 Samples Loaded By      Date

*Becky*      8/28/17  
 Data Processed By      Date

*10rd  
 8/28/17*

**PREPARATION BENCH SHEET**

F708511

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/23/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708511-BLK1	Blank	0.5	200					
F708511-BLK2	Blank	0.5	200					
F708511-BS1	Blank Spike	0.5	200	1701763	40			
F708511-BSD1	Blank Spike	0.5	200	1701763	40			
F708511-MS1	Matrix Spike [1708151-22]	0.55	200	1703591	50			
F708511-MS2	Matrix Spike [1708151-31RE1]	0.558	200	1703591	50			
F708511-MS3	Matrix Spike [1708151-31RE1]	0.558	200	1703591	50			
F708511-MSD1	Matrix Spike Dup [1708151-22]	0.572	200	1703591	50			
F708511-MSD2	Matrix Spike Dup [1708151-31RE1]	0.549	200	1703591	50			
F708511-MSD3	Matrix Spike Dup [1708151-31RE1]	0.549	200	1703591	50			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1701763	THg 1,000ng/mL Secondary Spiking Standard	22-Sep-17 00:00	1703182	25% Hydroxylamine-HCl working solution	24-Nov-17 00:00
1703591	THg 10,000ng/mL Primary Spiking Standard	14-Dec-17 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
			1704484	Fisher Nitric Acid, Tracemetal Grade	15-Mar-19 00:00
			1704516	THg Washstation (0.5% BrCl)	24-Nov-17 00:00
			1704517	THg Dilute 1% BrCl	18-Dec-17 00:00
			1704640	Omnitrace Hydrochloric Acid	27-Jul-20 00:00
			1704956	3% SnCl2 THg reductant	29-Jan-18 00:00
			1704959	7474 Potassium Bromate/Bromide Reagent	22-Aug-17 00:00

**PREPARATION BENCH SHEET**

F708511

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/23/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-18	W-110-A_080117_SED_00-01_R2	0.584	200	-	-	-		
1708151-19	W-110-A_080117_SED_00-01_R3	0.58	200	-	-	-		
1708151-20	W-110-A_080117_SED_01-03	0.595	200	-	-	-		
1708151-21	W-MM-09_080117_SED_00-01	0.543	200	-	-	-		
1708151-22	W-MM-09_080117_SED_01-03	0.516	200	QC	-	-	MS/MSD	
1708151-23	W-MM-10_080117_SED_00-01	0.553	200	-	-	-		
1708151-24	W-MM-10_080117_SED_01-03	0.55	200	-	-	-		
1708151-25	W-MM-15_080117_SED_00-01	0.529	200	-	-	-		
1708151-26	W-MM-15_080117_SED_01-03	0.554	200	-	-	-		
1708151-27	W-MM-16_080117_SED_00-01	0.562	200	-	-	-		
1708151-28	W-MM-16_080117_SED_01-03	0.539	200	-	-	-		
1708151-29	W-MM-20_080117_SED_00-01	0.558	200	-	-	-		
1708151-30	W-MM-20_080117_SED_01-03	0.525	200	-	-	-	Original jar broken, transferred sample	
1708151-31	W-MM-21_080117_SED_00-01	0.548	200	-	-	-		
1708151-31RE1	W-MM-21_080117_SED_00-01	0.5	200	-	-	-		
1708151-32	W-MM-21_080117_SED_01-03	0.542	200	-	-	-		
1708151-33	W-100-A_080317_SED_03-05	0.515	200	-	-	-		
1708151-34	W-100-A_080317_SED_05-10	0.525	200	-	-	-		
1708151-35	W-101-INTA_080317_SED_03-05	0.557	200	-	-	-		

PREPARATION BENCH SHEET

F708511

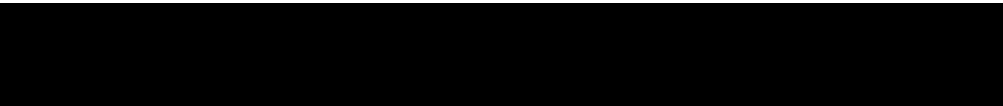
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/23/2017

1708151-36	W-101-INTA_080317_SED_05-10	0.554	200	-	-	-		
1708151-37	W-104-B_080317_SED_03-05_R1	0.535	200	-	-	-		



**PREPARATION BENCH SHEET**

F708511

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/23/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708511-BLK1	Blank	0.5	200					10X
F708511-BLK2	Blank	0.5	200					10X
F708511-BS1	Blank Spike	0.5	200	1701763	40			10X
F708511-BSD1	Blank Spike	0.5	200	1701763	40			10X
F708511-MS1	Matrix Spike [1708151-22]	0.55	200	1703591	50			400X
F708511-MS2	Matrix Spike [1708151-31]	0.558	200	1703591	50			400X
F708511-MSD1	Matrix Spike Dup [1708151-22]	0.572	200	1703591	50			400X
F708511-MSD2	Matrix Spike Dup [1708151-31]	0.549	200	1703591	50			400X

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1701763	THg 1,000ng/mL Secondary Spiking Standard	22-Sep-17 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
1703591	THg 10,000ng/mL Primary Spiking Standard	14-Dec-17 00:00	1704484	Fisher Nitric Acid, Tracemetal Grade	15-Mar-19 00:00
			1704640	Omnitrace Hydrochloric Acid	27-Jul-20 00:00
			1704959	7474 Potassium Bromate/Bromide Reagent	22-Aug-17 00:00

MS3, MSD3 re run of MS2/MSD2 400X

PREPARATION BENCH SHEET

F708511

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/23/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-18	W-110-A_080117_SED_00-01_R2	0.584	200	-	-	-	50x	
1708151-19	W-110-A_080117_SED_00-01_R3	0.58	200	-	-	-	50x	
1708151-20	W-110-A_080117_SED_01-03	0.595	200	-	-	-	50x	
1708151-21	W-MM-09_080117_SED_00-01	0.543	200	-	-	-	50x	
1708151-22	W-MM-09_080117_SED_01-03	0.516	200	QC	-	-	MS/MSD 50x	
1708151-23	W-MM-10_080117_SED_00-01	0.553	200	-	-	-	50x	
1708151-24	W-MM-10_080117_SED_01-03	0.55	200	-	-	-	50x	
1708151-25	W-MM-15_080117_SED_00-01	0.529	200	-	-	-	50x	
1708151-26	W-MM-15_080117_SED_01-03	0.554	200	-	-	-	50x	
1708151-27	W-MM-16_080117_SED_00-01	0.562	200	-	-	-	50x	
1708151-28	W-MM-16_080117_SED_01-03	0.539	200	-	-	-	50x	
1708151-29	W-MM-20_080117_SED_00-01	0.558	200	-	-	-	50x	
1708151-30	W-MM-20_080117_SED_01-03	0.525	200	-	-	-	Original jar broken, transferred sample 50x	
1708151-31	W-MM-21_080117_SED_00-01	0.548	200	-	-	-	50x → 400x	
1708151-32	W-MM-21_080117_SED_01-03	0.542	200	-	-	-	50x	
1708151-33	W-100-A_080317_SED_03-05	0.515	200	-	-	-	50x	
1708151-34	W-100-A_080317_SED_05-10	0.525	200	-	-	-	50x	
1708151-35	W-101-INTA_080317_SED_03-05	0.557	200	-	-	-	50x	
1708151-36	W-101-INTA_080317_SED_05-10	0.554	200	-	-	-	50x	

Due Date: 9/5/2017

\* Create re-extracts for samples 27-37 (reprep) R 8/23/17

PREPARATION BENCH SHEET

F708511

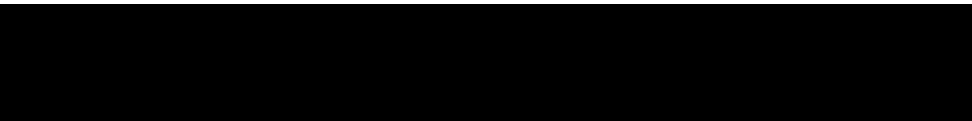
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

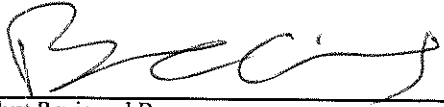
Prepared: 8/23/2017

1708151-37	W-104-B_080317_SED_03-05_R1	0.535	200	-	-	-	SDR /	
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# Failing Data Report - 7H29014

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
1708151-31	Hg-CVAFS-S-7474 ✓	3420	60.8				ng/g						FAIL-OVER	PASS	E ✓
F708511-MS2	Hg-CVAFS-S-7474 ✓	645.3	478		3951	2992.8	ng/g	-110	71.00	125.00			PASS-OVER	FAIL-MS	DNR ✓
F708511-MSD2	Hg-CVAFS-S-7474 ✓	3475	486	645.3	3951	3041.9	ng/g	-15.7	71.00	125.00	-150	24.00	PASS-OVER	FAIL-MSD (Rec.)	DNR ✓
F708511-MS3	Hg-CVAFS-S-7474 ✓	676.3	478		3951	2992.8	ng/g	-109	71.00	125.00			PASS-OVER	FAIL-MS	DNR ✓
F708511-MSD3	Hg-CVAFS-S-7474 ✓	3381	486	676.3	3951	3041.9	ng/g	-18.7	71.00	125.00	-141	24.00	PASS-OVER	FAIL-MSD (Rec.)	DNR ✓


 8/29/17  
 Analyst Reviewed By \_\_\_\_\_ Date \_\_\_\_\_


 8/31/17  
 Peer Reviewed By \_\_\_\_\_ Date \_\_\_\_\_



## ANALYSIS SEQUENCE

QUALITY ASSURANCE

7H29016

PEER-REVIEWED



Instrument: Hg2600-2

Calibration ID: UNASSIGNED

INITIALS: R

8/31/17

Analyzed: 8/28/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H29016-IBL1 ✓	QC	1			
7H29016-IBL2 ✓	QC	2			
7H29016-IBL3 ✓	QC	3			
7H29016-CAL1 ✓	QC	4	1704505 ✓		
7H29016-CAL2 ✓	QC	5	1704506 ✓		
7H29016-CAL3 ✓	QC	6	1704507 ✓		
7H29016-CAL4 ✓	QC	7	1704508 ✓		
7H29016-CAL5 ✓	QC	8	1704509 ✓		
7H29016-ICV1 ✓	QC	9	1703679 ✓		
F708554-BLK1 ✓	QC	10			
F708554-BLK2 ✓	QC	11			
F708554-BLK3 ✓	QC	12			
F708554-BS1 ✓	QC	13			
F708554-BSD1 ✓	QC	14			
1708443-05 ✓	Hg-CVAFS-W-1631	15			
1708443-19 ✓	Hg-CVAFS-W-1631	16			
1708443-27 ✓	Hg-CVAFS-W-1631	17			
1708443-21 ✓	Hg-CVAFS-W-1631	18			
1708443-23 ✓	Hg-CVAFS-W-1631	19			
7H29016-CCV1 ✓	QC	20	1703679 ✓		
7H29016-CCB1 ✓	QC	21			
1708443-25 ✓	Hg-CVAFS-W-1631	22			
1708443-29 ✓	Hg-CVAFS-W-1631	23			
1708443-31 ✓	Hg-CVAFS-W-1631	24			
1708645-01 ✓	Hg-CVAFS-W-1631	25			
1708679-09 ✓	Hg-CVAFS-W-1631	26			
1708679-15 ✓	Hg-CVAFS-W-1631	27			
1708679-16 ✓	Hg-CVAFS-W-1631	28			
1708679-21 ✓	Hg-CVAFS-W-1631	29			
1708680-02 ✓	Hg-CVAFS-W-1631	30			Scan Data for Level IV
1708680-04 ✓	Hg-CVAFS-W-1631	31			Scan Data for Level IV
7H29016-CCV2 ✓	QC	32	1703679		
7H29016-CCB2 ✓	QC	33			
1708679-10 ✓	Hg-CVAFS-W-1631	34			
1708679-11 ✓	Hg-CVAFS-W-1631	35			

Due Date: 8/31/2017

**ANALYSIS SEQUENCE**

7H29016



Instrument: Hg2600-2

Calibration ID: UNASSIGNED

Analyzed: 8/28/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708679-12 ✓	Hg-CVAFS-W-1631	36			
1708679-13 ✓	Hg-CVAFS-W-1631	37			
1708679-14	Hg-CVAFS-W-1631	38			
F708554-DUP1 ✓	QC	39			
F708554-MS1 ✓	QC	40			
F708554-MSD1 ✓	QC	41			
F708554-MS2 ✓	QC	42			
F708554-MSD2 ✓	QC	43			
7H29016-CCV3 ✓	QC	44	1703679		
7H29016-CCB3 ✓	QC	45			

*Beck* 8/29/17  
 Samples Loaded By                      Date

*Beck* 8/29/17  
 Data Processed By                      Date

107808  
 8/28/17

# Failing Data Report - 7H29016

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
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Be Cis 8/29/17

Analyst Reviewed By

Date

RM

Peer Reviewed By

8/31/17

Date

**PREPARATION BENCH SHEET**

F708554

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Water**

**Prepared using: AFS - EPA 1631E BrCl Oxidation**

**Prepared: 8/28/2017**

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708554-BLK1	Blank	100	101					
F708554-BLK2	Blank	100	101					
F708554-BLK3	Blank	100	101					
F708554-BS1	LCS	50	50.5	1705054	✓ 100 ✓			
F708554-BSD1	LCS Dup	50	50.5	1705054	100			
F708554-DUP1	Duplicate [1708443-05] ✓	100	101					
F708554-MS1	Matrix Spike [1708443-05] ✓	49.50495	50	1704422	✓ 100 ✓			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL ✓
F708554-MS2	Matrix Spike [1708679-09] ✓	0.01980198	0.02	1704422	100			[Spk] 100mL->101mL; 101mL->101mL; Spiked 0.02mL ✓
F708554-MSD1	Matrix Spike Dup [1708443-05] ✓	49.50495	50	1704422	100			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL ✓
F708554-MSD2	Matrix Spike Dup [1708679-09] ✓	0.01980198	0.02	1704422	100			[Spk] 100mL->101mL; 101mL->101mL; Spiked 0.02mL ✓

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1704422	THg 10ng/mL Calibration Standard	21-Oct-17 00:00	1703182	25% Hydroxylamine-HCl working solution	24-Nov-17 00:00
1705054	Nist 1641D 200X	21-Aug-18 00:00	1704515	0.2 N BRCL JULY 2017	22-Jan-18 00:00
			1704516	THg Washstation (0.5% BrCl)	24-Nov-17 00:00
			1704517	THg Dilute 1% BrCl	18-Dec-17 00:00
			1704956	3% SnCl2 THg reductant	29-Jan-18 00:00

**PREPARATION BENCH SHEET**

F708554

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Water**

**Prepared using: AFS - EPA 1631E BrCl Oxidation**

**Prepared: 8/28/2017**

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708443-05	39137.5	100	101	-	-	-		
1708443-19	39137.19	100	101	-	-	-		
1708443-21	39138.1	100	101	-	-	-	Field Blank	
1708443-23	39138.3	100	101	-	-	-	Field Blank	
1708443-25	39138.5	100	101	-	-	-	Field Blank	
1708443-27	39138.7	100	101	-	-	-	Field Blank	
1708443-29	39138.9	100	101	-	-	-	Field Blank	
1708443-31	Laboratory Filter Blank	100	101	-	-	-		
1708645-01	WQ 1462 1506991 (lot #)	100	101	-	-	-		
1708679-09	G17231 3Q17-TSM-1	100	101	-	-	-		
1708679-10	G17231 3Q17-TSM-1 Dissolved	100	101	-	-	-		
1708679-11	G17232 3Q17-TSM-2	100	101	-	-	-		
1708679-12	G17232 3Q17-TSM-2 Dissolved	100	101	-	-	-		
1708679-13	G17233 3Q17-TSM-3	100	101	-	-	-		
1708679-14	G17233 3Q17-TSM-3 Dissolved	100	101	-	-	-		
1708679-15	G17234 3Q17-TSM-B	100	101	-	-	-		
1708679-16	G17234 3Q17-TSM-B Dissolved	100	101	-	-	-		
1708679-21	Laboratory Filter Blank	100	101	-	-	-		
1708680-02	B-161537 Plant Inf. (Hg) #17-11508	100	101	-	-	-	Scan Data for Level IV	

PREPARATION BENCH SHEET

F708554

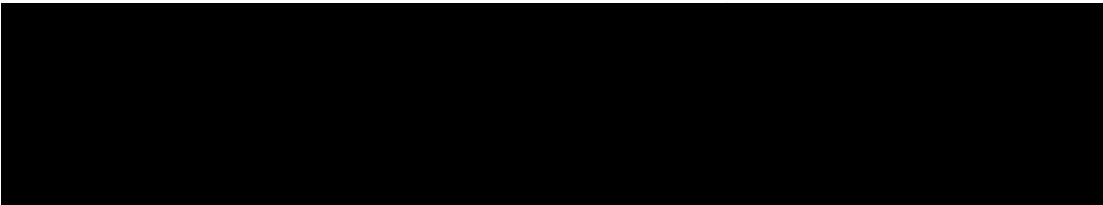
Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/28/2017

1708680-04	B-173137 Plant Eff. (Hg) #17-11510	100	101	-	-	-	Scan Data for Level IV	
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BC 8/28/17  
2600-2

PREPARATION BENCH SHEET

F708554

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/28/2017

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708554-BLK1	Blank	100	101					1X
F708554-BLK2	Blank	100	101					1X
F708554-BLK3	Blank	100	101					1X
F708554-BS1	LCS	100	101	1705054	100			1X
F708554-BSD1	LCS Dup	100	101	1705054	100			1X
F708554-DUP1	Duplicate 1708443-05	100	101					1X
F708554-MS1	Matrix Spike 1708443-05	100	101	1704422	100			1X
F708554-MS2	Matrix Spike 1708679-09	100	101	1704422	100			2500X
F708554-MSD1	Matrix Spike Dup 1708443-05	100	101	1704422	100			1X
F708554-MSD2	Matrix Spike Dup 1708679-09	100	101	1704422	100			2500X

Standard ID(s): Description:

Expiration:

1704515  
1705  
1704512  
1704517  
1704956  
1703182

PREPARATION BENCH SHEET

Be 8/28/17  
2600-2

F708554

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/28/2017

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708443-05 ✓	39137.5	100	101	-	-	-	1X ✓	
1708443-19 ✓	39137.19	100	101	-	-	-	1X ✓	
1708443-21 ✓	39138.1	100	101	-	-	-	Field Blank 1X ✓	
1708443-23 ✓	39138.3	100	101	-	-	-	Field Blank 1X ✓	
1708443-25 ✓	39138.5	100	101	-	-	-	Field Blank 1X ✓	
1708443-27 ✓	39138.7	100	101	-	-	-	Field Blank 1X ✓	
1708443-29 ✓	39138.9	100	101	-	-	-	Field Blank 1X ✓	
1708443-31 ✓	Laboratory Filter Blank	100	101	-	-	-	1X ✓	
1708645-01	WQ 1462 1506991 (lot #)	100	101	-	-	-	1X ✓	
1708679-09	G17231 3Q17-TSM-1	100	101	-	-	-	2500X ✓	
1708679-10	G17231 3Q17-TSM-1 Dissolved	100	101	-	-	-	2500X ✓	
1708679-11	G17232 3Q17-TSM-2	100	101	-	-	-	2500X ✓	
1708679-12	G17232 3Q17-TSM-2 Dissolved	100	101	-	-	-	2500X ✓	
1708679-13	G17233 3Q17-TSM-3	100	101	-	-	-	2500X ✓	
1708679-14	G17233 3Q17-TSM-3 Dissolved	100	101	-	-	-	2500X ✓	
1708679-15	G17234 3Q17-TSM-B	100	101	-	-	-	1X ✓	
1708679-16	G17234 3Q17-TSM-B Dissolved	100	101	-	-	-	1X ✓	
1708679-21	Laboratory Filter Blank	100	101	-	-	-	1X ✓	
1708680-02	B-161537 Plant Inf. (Hg) #17-11508	100	101	-	-	-	Scan Data for Level IV 1X 10X ✓	

017401  
016401  
020201  
01303

Due Date: 8/31/2017



BC 8/28/17  
2600-2

PREPARATION BENCH SHEET

F708554

Eurofins Frontier Global Sciences, Inc.

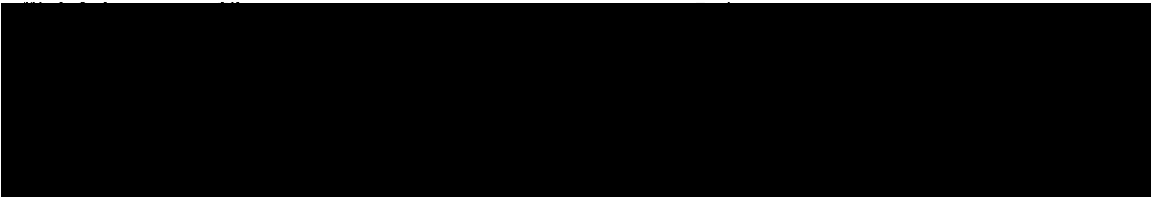
Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/28/2017

1708680-04	B-173137 Plant Eff. (Hg) #17-11510	100	101	-	-	-	Scan Data for Level IV IX ✓	
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01030



# Total Mercury Preservation Logbook

**Initial preservation and/or verification**

Technician: CSB Date: 8/17/17 Time Completed: 1343

Work Orders: 1708443

**Additional preservation and/or verification (as needed)**

Technician: \_\_\_\_\_ Date: \_\_\_\_\_ Time Completed: \_\_\_\_\_  
 Technician: \_\_\_\_\_ Date: \_\_\_\_\_ Time Completed: \_\_\_\_\_

BrCl LIMS ID: 1703700  
 Pipette SN: J07631  
 Cal. Date: 8/16/17

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1708443-01A	300	3.00	y			
1708443-03B	300	3.00	y y			
1708443-05A	300	3.00	y y			
1708443-07B	300	3.00	y y			
1708443-09A	300	3.00	y y			
1708443-11B	300	3.00	y y			
1708443-13A	300	3.00	y y			
1708443-15B	300	3.00	y y			
1708443-17A	300	3.00	y y			
1708443-19B	300	3.00	y y			
1708443-21A	300	3.00	y y			
1708443-23A	300	3.00	y y			
1708443-25A	300	3.00	y y			
1708443-27A	300	3.00	y y			
1708443-29A	300	3.00	y y			
1708443-31A	300	3.00	y y			
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;">                     CSB 8/17/17                 </div>						

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments: \_\_\_\_\_

## Total Mercury Preservation Logbook

**Initial preservation and/or verification**

Technician: LM Date: 9/23/17 Time Completed: 18:20

Work Orders: 1708638  
1708639, 1708645

**Additional preservation and/or verification (as needed)**

Technician: \_\_\_\_\_ Date: \_\_\_\_\_ Time Completed: \_\_\_\_\_

BrCl LIMS ID: 1704515

Technician: \_\_\_\_\_ Date: \_\_\_\_\_ Time Completed: \_\_\_\_\_

Pipette SN: 507631

Cal. Date: 8/22/17

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1708638-05A	300	3.00	Y			
1708638-06B	300	3.00	Y			
1708638-07A	300	3.00	Y			
1708638-08B	300	3.00	Y			
1708638-09A	300	3.00	Y			
1708638-10B	300	3.00	Y			
1708638-11A	300	3.00	Y			
1708638-12B	300	3.00	Y			
1708638-13A	300	3.00	Y			
1708638-14B	300	3.00	Y			
1708638-15A	300	3.00	Y			
1708638-16A	300	3.00	Y			
1708639-01A	150	1.50	Y			
1708639-02A	150	1.50	Y			
1708639-03A	300	3.00	Y			
1708639-04A	300	3.00	Y			
1708639-05A	150	1.50	Y			
1708639-06A	150	1.50	Y			
1708639-07A	300	3.00	Y			
1708639-08A	300	3.00	Y			
1708639-09A	300	3.00	Y			
1708639-10A	300	3.00	Y			
1708645-01A	1000	10.00	Y			
LM 9/23/17						

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments: \_\_\_\_\_

# Total Mercury Preservation Logbook

**Initial preservation and/or verification**

Technician: CSP Date: 8/24/17 Time Completed: 1455

Work Orders: 1708680  
1708681, 1708679

**Additional preservation and/or verification (as needed)**

Technician: \_\_\_\_\_ Date: \_\_\_\_\_ Time Completed: \_\_\_\_\_  
Technician: \_\_\_\_\_ Date: \_\_\_\_\_ Time Completed: \_\_\_\_\_

BrCl LIMS ID: 1704515  
Pipette SN: J07631  
Cal. Date: 8/22/17

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1708680-02A	300	3.00	y			
1708680-04A	300	3.00	y			
1708681-01A	300	3.00	y			
1708681-02A	300	3.00	y			
1708681-03A	300	3.00	y			
1708681-04A	300	3.00	y			
1708681-05A	300	3.00	y			
1708681-06A	300	3.00	y			
1708681-09A						
1708681-10A						
1708681-11A						
1708681-12A						
1708681-13A						
1708681-14A						
1708681-15A						
1708681-16A						
<del>17086</del>						
1708679-09A	125	1.25	y			
1708679-10A	125	1.25	y			
1708679-11A	125	1.25	y			
1708679-12A	125	1.25	y			
1708679-13A	125	1.25	y			
1708679-14A	125	1.25	y			
1708679-15A	125	1.25	y			
1708679-16A	125	1.25	y			
1708679-21A	250	2.50	y			

CSP  
8/24/17

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments: \* used incorrect WO \*

ANALYSIS SEQUENCE

QUALITY ASSURANCE

7H29015

PEER-REVIEWED



Instrument: Hg2600-2

Calibration ID: UNASSIGNED

INITIALS: *R 8/31/17* Analyzed: 8/28/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H29015-IBL1 ✓	QC	1			
7H29015-IBL2 ✓	QC	2			
7H29015-IBL3 ✓	QC	3			
7H29015-CAL1 ✓	QC	4	1704505		
7H29015-CAL2 ✓	QC	5	1704506		
7H29015-CAL3 ✓	QC	6	1704507		
7H29015-CAL4 ✓	QC	7	1704508		
7H29015-CAL5 ✓	QC	8	1704509		
7H29015-ICV1 ✓	QC	9	1703679		
7H29015-CCV1 ✓	QC	10	1703679		
7H29015-CCB1 ✓	QC	11			
7H29015-CCV2 ✓	QC	12	1703679		
7H29015-CCB2 ✓	QC	13			
7H29015-CCV3 ✓	QC	14	1703679		
7H29015-CCB3 ✓	QC	15			
7H29015-CCV4 ✓	QC	16	1703679		
7H29015-CCB4 ✓	QC	17			
7H29015-CCV5 ✓	QC	18	1703679		
7H29015-CCB5 ✓	QC	19			
7H29015-CCV6 ✓	QC	20	1703679		
7H29015-CCB6 ✓	QC	21			
F708545-BLK1 ✓	QC	22			
F708545-BLK2 ✓	QC	23			
F708545-BLK3 ✓	QC	24			
F708545-BS1 ✓	QC	25			
F708545-BSD1 ✓	QC	26			
1708483-01 ✓	Hg_Passive_OSHAID140	27			Lab - Reanalyze all blank badges > 9ng/trap, blk badge = no volume
1708483-02 ✓	Hg_Passive_OSHAID140	28			Lab - Reanalyze all blank badges > 9ng/trap, blk badge = no volume
1708483-03 ✓	Hg_Passive_OSHAID140	29			Lab - Reanalyze all blank badges > 9ng/trap, blk badge = no volume
F708545-DUPI ✓	QC	30			
7H29015-CCV7 ✓	QC	31	1703679		
7H29015-CCB7 ✓	QC	32			
F708545-MS1 ✓	QC	33			
F708545-MSD1 ✓	QC	34			
7H29015-CCV8 ✓	QC	35	1703679		

Due Date: 8/31/2017

ANALYSIS SEQUENCE

7H29015



Instrument: Hg2600-2

Calibration ID: UNASSIGNED

Analyzed: 8/28/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H29015-CCB8 ✓	QC	36			

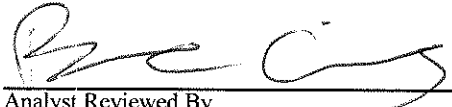
Beck 8/29/17  
Samples Loaded By Date

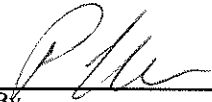
Beck 8/29/17  
Data Processed By Date

10 added  
8/29/17

# Failing Data Report - 7H29015

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
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8/29/17  
 Analyst Reviewed By Date


8/31/17  
 Peer Reviewed By Date

**PREPARATION BENCH SHEET**

F708545

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Air**

**Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion**

**Prepared: 8/25/2017**

Lab Number	Sample ID and Source Sample	Initial (Trap)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708545-BLK1	Blank	1	25					
F708545-BLK2	Blank	1	25					
F708545-BLK3	Blank	1	25					
F708545-BS1	LCS	1	25	1701763	✓ 50 ✓			
F708545-BSD1	LCS Dup	1	25	1701763	50			
F708545-DUP1	Duplicate [1708483-02] ✓	1	25					
F708545-MS1	Matrix Spike [1708483-02] ✓	0.02	0.5	1704422	✓ 100 ✓			[Spk] 1Trap->25mL; 25mL->25mL; Spiked 0.5mL ✓
F708545-MSD1	Matrix Spike Dup [1708483-02] ✓	0.02	0.5	1704422	100			[Spk] 1Trap->25mL; 25mL->25mL; Spiked 0.5mL ✓

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1701763	THg 1,000ng/mL Secondary Spiking Standard	22-Sep-17 00:00	1703182	25% Hydroxylamine-HCl working solution	24-Nov-17 00:00
1704422	THg 10ng/mL Calibration Standard	21-Oct-17 00:00	1704516	THg Washstation (0.5% BrCl)	
			1704517	THg Dilute 1% BrCl	18-Dec-17 00:00
			1704956	3% SnCl2 THg reductant	29-Jan-18 00:00
			1705051	Fisher Nitric Acid, Tracemetal Grade	18-Aug-20 00:00



PREPARATION BENCH SHEET

F708545

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/25/2017

Lab Number	Sample ID	Initial (Trap)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708483-01	SID0134001	1	25	-	-	-	Sample Volume: 1.4 L Lab - Reanalyze	
1708483-02	SID0134002	1	25	-	-	-	Sample Volume: 1.4 L Lab - Reanalyze	
1708483-03	SID0134003	1	25	-	-	-	No Sample Volume Lab - Reanalyze all	



PREPARATION BENCH SHEET

BC 8/22/17

2600-2

F708545

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/25/2017

Lab Number	Sample ID and Source Sample	Initial (Trap)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708545-BLK1	Blank	1	25					100X -
F708545-BLK2	Blank	1	25					100X -
F708545-BLK3	Blank	1	25					100X
F708545-BS1	LCS	1	25	1701763	50			100X -
F708545-BSD1	LCS Dup	1	25	1701763	50			100X -
F708545-DUP1	Duplicate 1702483-02	1	25					100X -
F708545-MS1	Matrix Spike 1702483-02	1	25	1704422	100			100X -
F708545-MSD1	Matrix Spike Dup 1702483-02	1	25	1704422	100			100X -

Standard ID(s): Description:

Expiration:

1704516  
1704517  
1704956  
1703187

PREPARATION BENCH SHEET

BC 8/28/17  
2600-2

F708545

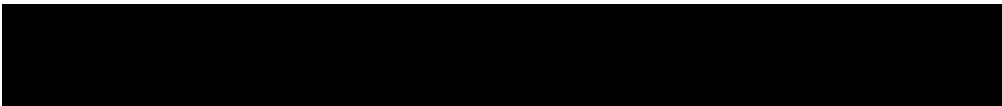
Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/25/2017

Lab Number	Sample ID	Initial (Trap)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708483-01	SID0134001	1	25	-	-	-	Sample Volume: 1.4 L Lab - Reanalyze	100X
1708483-02	SID0134002	1	25	-	-	-	Sample Volume: 1.4 L Lab - Reanalyze	100X
1708483-03	SID0134003	1	25	-	-	-	No Sample Volume Lab - Reanalyze all	100X



Trap Digestions

Name: AMB Date: 8/25/17 Batch ID: F708545  
 Work Order(s): 1708483 Analysis:  Total Hg  Other \_\_\_\_\_  
 Sample Matrix:  FSTM  KCl  PHg Plug  Other BADGES  
 Prep:  70/30 Digestion, 2 hr. @ ~55°C (EFAFS-T-AFS-SOP2985)

start time: \_\_\_\_\_, start temp (°C): \_\_\_\_\_ (raw) \_\_\_\_\_ (w/ CF)  
 end time: \_\_\_\_\_, end temp (°C): \_\_\_\_\_ (raw) \_\_\_\_\_ (w/ CF) Timer?  Yes  No

5% BrCl Oxidation (EFGS-031) start time: \_\_\_\_\_ (allow samples to sit for at least 4 hr before analysis)

Other SORBENT BADGES - 5mL HCl + 5mL HNO<sub>3</sub> + 15mL H<sub>2</sub>O

Sample ID Number	Digest vol. (mL)
F708545 - BLK1	25
F708545 - BLK2	25
F708545 - BLK3	25
F708545 - BSI	25
F708545 - BSDI	25
1708483 - 01	25
1708483 - 02	25
1708483 - 03	25

8-25-17 AMB

Spike ID: 1701763  
 Spike Amount (µL): 50  
 Spike Witness: LL 8/25/17  
 BrCl ID: HCl  
 70/30: HNO<sub>3</sub>: 1705051  
 Other: N/A  
 Thermometer: N/A  
 Dispensers: 02K27494   
 04N73497   
 Other 12H07691  
 other: 09N52469  
 Pipette ID: 0407852  
 Cal. Date: 8-25-17  
 Vials and Jars lot# 00068424  
 Trap Material Lot#: N/A  
 Loader Mass Verified:  Yes  No AMB  
 Comments: Boiling chips:

AMB 8/25/17

**Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)**

Analyst: <u>BC</u>	Sequence(s) #: <u>7H29014, 7H29015, 7H29016</u>
Reviewer: <u>R 8/3/17</u>	Dataset ID(s): <u>TH26002-170828-1</u>
Date: <u>8/29/2017</u>	WO (s) #: <u>Various</u>
Batch #(s): <u>F708554, F708545, F708511</u>	

• Select the correct preparation method.

Analyte	Prep Method	FSTM Trap	Matrix
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2985	70:30 Digest	Air/Gas
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2807	Modified Cold Aqua Regia	Sed/Soil
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2821	Shared Bomb-HF/HNO3/HCl Digest	Sed/Soil
<input type="checkbox"/> THg	EFTM-T-TM-SOP2825	Nitric Acid Oven Bomb	Sed/Soil
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2795	70:30 Digest	Tissue
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2800	KCl Trap BrCl Oxidation	Air/Gas
<input type="checkbox"/> THg	EFTM-T-TM-SOP2837	Shared Nitric	Tissue
<input checked="" type="checkbox"/> THg	EFSR-P-SP-SOP2796	BrCl Oxidation	Water
<input type="checkbox"/> Hg0	NA	NA	Water
<input type="checkbox"/> Inorg Hg	NA	NA	Water

Analyst Initials: BC      Reviewer Initials: R 8/3/17

- |   |   |  |                                     |
|---|---|--|-------------------------------------|
| 1. Compare SampleID with Benchsheet/Sequence/Raw Data (Have all samples been imported?)   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| 2. Check for transcription errors from Excel spreadsheet (or Prep Benchsheet)/Raw data  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (a) On raw data (instrument print-out), does correct file (dataset ID#) name appear in description?<br>Naming convention: THg26001-yymmdd-1 or THg26002-yymmdd-1        | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (b) Check 5% of transcription from Instrument print-out and Excel file<br>Compare the "Dilute" and "Peak (raw)" columns to "Dilution" and "Uncorrected Result" in Excel | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (c) Check standards & reagents in sequence & bench sheet for correct usage (expiries).  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A        |
| (d) Check and compare masses (review prep benchsheet)   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A        |
| (e) Check & compare initial & final volumes   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A        |
| (f) Do aliquots and dilutions written on benchsheet match those in Excel?<br>50 ml / aliquot = Excel dilution value   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A        |
| (g) Is the sequence #, analyst, date, and instrument # on the QC page?  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (h) Is the analysis status correct? (analyzed/initial review/reviewed)  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (i) Original prep bench sheet added to data package?  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (j) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| 3. High QA?      WO#(s)/Client(s): _____  | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 4. Client specific QC? (if Yes, refer to Project Notes/LIMS)  | <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| (a) Have the QC requirements been met for all WO#s?   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (b) Prep blanks corrections/assigned properly   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| 5a. 20 or fewer samples in batch?   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (i) 3 PBs, 1 LCS(or BS), 1 LCSD(or BSD), 1 DUP/Batch 1 MS/MSD (or AS/ASD)/10 samples?   | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |
| (ii) 1 CCV and 1 CCB every 10 analytical runs?  | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> |

**Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)**

<b>Analyst:</b> BC	<b>Sequence(s) #:</b> 7H29014, 7H29015, 7H29016
<b>Reviewer:</b> 0 <i>R 8/31/17</i>	<b>Dataset ID(s):</b> TH26002-170828-1
<b>Date:</b> 8/29/2017	<b>WO (s) #:</b> Various
<b>Batch #(s):</b> F708554, F708545, F708511	0

**Analyst Initials** BC      **Reviewer Initials** R 8/31/17

- |  |  |                               |   |                                     |
|--|--|-------------------------------|---|-------------------------------------|
| 5b. Has the B/C section data been uploaded?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A            | <input checked="" type="checkbox"/> |
| <b>QA/QC Data Checked</b>  |  |                               |   |                                     |
| 6. RSD CF (≤ 15%)  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |                                     |
| 7. The calibration curve included a minimum of 5 Standards   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |                                     |
| 8. 1st Calibration Standard % Recoveries EPA 1631E (75-125%)   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL |   | <input checked="" type="checkbox"/> |
| 9. ICV and CCV % Recoveries EPA 1631E (77-123%)  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |                                     |
| 10. Do all calibration points pass acceptance criteria?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |                                     |
| 11. Are qualifiers consistent with the data review flowcharts?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A            | <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |                                     |
| 12. Explain any items on the failed data report from Element   |  |                               |   | <input checked="" type="checkbox"/> |
| Comments: <i>F708511-MS2 and source switched during prep, the whole second rack of the prep will be redigested</i> |  |                               |   |                                     |
| 13. Are the individual Preparation Blanks < PQL or <2.2xMDL for WI (refer to appropriate prep method PQL list)     | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL |   | <input checked="" type="checkbox"/> |
| (a) If not < PQL or <2.2xMDL for WI, note which PB(s) are above control limit:                                     |  |                               |   |                                     |
| (b) Is the mean PB < PQL or <2.2xMDL for WI (for appropriate qualification)?                                       | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   |   | <input checked="" type="checkbox"/> |
| (c) Was a BrCl Blank analyzed for each preservation level?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A            | <input checked="" type="checkbox"/> |
| (d) Are Preparation Blanks summarized on QC page?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   |   | <input checked="" type="checkbox"/> |
| 14. Filtration Blank Prepared (if yes, use FB qualifier)   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   |   | <input checked="" type="checkbox"/> |
| (a) Filtration Blank prep date same as associated samples' prep date   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| (b) Filtration Blank absolute value < PQL or <2.2xMDL for WI   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 15. IBLs (3 minimum) individually < 0.50 ng/L, mean < 0.25 ng/L and STD of 0.10 ng/L?                              | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |                                     |
| 16. CCBs individually < 0.50 ng/L or 2.2 x MDL for WI?   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL |   | <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |                                     |
| 17. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done)                       | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 18. Is the correct 'Source' designated for MD/MS/MSD?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   |   | <input checked="" type="checkbox"/> |
| 19. For digested preps: was there a spike witness signature & date on the prep bench sheet?                        | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A            | <input checked="" type="checkbox"/> |

**Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)**

Analyst: BC	Sequence(s) #: 7H29014, 7H29015, 7H29016
Reviewer: 0 <i>PC 8/31/17</i>	Dataset ID(s): TH26002-170828-1
Date: 8/29/2017	WO (s) #: Various
Batch #(s): F708554, F708545, F708511	0

Analyst Initials *PC*                      Reviewer Initials *PC 8/31/17*

- |  |  |                               |   |
|--|--|-------------------------------|---|
| 20. MS/MSD Spiked at least 1-5 X ambient or 5x MRL (whichever is higher) ?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |
| Comments: _____  |  |                               |   |
| 21. Are all samples within instrument calibration range? (or at minimum dilution size)   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL | <input checked="" type="checkbox"/>   |
| Comments: _____  |  |                               |   |
| 22. Are the samples run at the correct dilution level for the method?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |
| Comments: _____  |  |                               |   |
| 23. Dissolved < Total (if applicable)  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| Comments: _____  |  |                               |   |
| 24. Effluent < Influent (visually confirm if needed)   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| Comments: _____  |  |                               |   |
| 25. Are re-runs noted with reason?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| Comments: _____  |  |                               |   |
| 26. FSTM Datasets: Check to ensure the 'Response' & 'Initial Result' columns match in both the Excel dataset & LIMS for the FSTM A (in sequence) & B/C (in batch) traps? | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 27. Is the B trap <5% A Traps  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 28. Are spiked trap recoveries 75-125% of true value?  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 29. Have non-reportable samples been imported into LIMS and clicked to non-reportable?   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 30. Have re-extracts been created for non-reportable samples?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| 31. Are there any HIGH QA projects within the data? If so, place data package in QA office before scanning.  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 32. Does the data set need scanning?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| 33. Does the dataset have an LOQ/LOQ or DOC?   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 34. Water samples: has the preservation log been included in dataset for final volume verification?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
| 35. Water samples-is the final volume correct in the sequence?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input type="checkbox"/> N/A <input checked="" type="checkbox"/>            |
- Files located at:** \\Cuprum\gen\_admin\Quality Assurance\Training Master\DOCs
- |   |           |                                  |   |                             |                                     |
|---|-----------|----------------------------------|---|-----------------------------|-------------------------------------|
| 36. Date of analyst IDOC/CDOC: _____                | 1/11/2017 | IDOC/CDOC within last 12 months? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 37. Date of analyst's SOP reading for method: _____ | 5/20/2017 | Current SOP revision read?       | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 38. Date of LOD: _____                              | 4/26/2017 | LOD within last 3 months?        | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 39. Date of LOQ: _____                              | 4/26/2017 | LOQ within last 3 months?        | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |

**Data can not be reported without a current IDOC/CDOC, LOD or LOQ.**

**Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)**

<b>Analyst:</b> BC	<b>Sequence(s) #:</b> 7H29014, 7H29015, 7H29016
<b>Reviewer:</b> 0 <i>BC 8/29/17</i>	<b>Dataset ID(s):</b> TH26002-170828-1
<b>Date:</b> 8/29/2017	<b>WO (s) #:</b> Various
<b>Batch #(s):</b> F708554, F708545, F708511	0

*BC*

40. Peer Reviewer's comments (use Peer Review Checklist Additional Comments form if necessary):


Additional Page (s)?  YES





Frontier Global Sciences

Analysis Datasheet for Total Mercury

Date of Analysis: August 30, 2017

Analyst: BC

Instrument #: Hg2600-3

Units ng/L

LIMS Sequence #: 7H30017, 7H30018

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.50 ng/L	65.65 units	131.30	60.22 units	120.45	104.7 %Rec
SEQ-CAL2	1	1.00 ng/L	117.93 units	117.93	112.50 units	112.50	97.8 %Rec
SEQ-CAL3	1	5.00 ng/L	583.64 units	116.73	578.21 units	115.64	100.6 %Rec
SEQ-CAL4	1	20.00 ng/L	2270.49 units	113.52	2265.06 units	113.25	98.5 %Rec
SEQ-CAL5	1	40.00 ng/L	4532.08 units	113.30	4526.65 units	113.17	98.4 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF    Corr. St Dev RF    Corr. RSD CF    Uncorr. Mean RF  
 115.00            +/- 3.27            2.8% RSD            118.56

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-JBL	3	5.43 units	±2.83	0.05 ng/L	±0.02

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	2	0.387 ng/L	±0.417
BLK	2	2	0.155 ng/L	±0.199
BLK	3	2	1.556 ng/L	±1.768
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	
BLK	6	0	0.000 ng/L	

QUALITY ASSURANCE  
 PEER-REVIEWED

INITIALS:           a 9/3/17

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-3	BC	CAL	SEQ-IBL1	1	8/30/2017 8:18:15	74298-1.RAW	8:18:15 AM	4.23			-1.2	-0.010	-0.010	ng/L	
Hg2600-3	BC	CAL	SEQ-IBL2	1	8/30/2017 8:22:23	74299-1.RAW	8:22:23 AM	3.39			-2.0	-0.018	-0.018	ng/L	
Hg2600-3	BC	CAL	SEQ-IBL3	1	8/30/2017 8:26:32	74300-1.RAW	8:26:32 AM	8.66			3.2	0.028	0.028	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL1	1	8/30/2017 8:30:40	74301-1.RAW	8:30:40 AM	65.65			60.2	0.524	0.524	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL2	1	8/30/2017 8:34:49	74302-1.RAW	8:34:49 AM	117.93			112.5	0.978	0.978	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL3	1	8/30/2017 8:38:57	74303-1.RAW	8:38:57 AM	583.84			578.2	5.028	5.028	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL4	1	8/30/2017 8:43:05	74304-1.RAW	8:43:05 AM	2270.49			2265.1	19.696	19.696	ng/L	
Hg2600-3	BC	CAL	SEQ-CAL5	1	8/30/2017 8:47:14	74305-1.RAW	8:47:14 AM	4532.08			4526.7	39.361	39.361	ng/L	
Hg2600-3	BC	CAL	SEQ-ICV1	1	8/30/2017 8:51:22	74306-1.RAW	8:51:22 AM	599.29			593.9	5.164	5.164	ng/L	
Hg2600-3	BC	BLK	F708527-BLK1	10	8/30/2017 8:55:31	74307-1.RAW	8:55:31 AM	13.27	1		7.8	0.068	0.682	ng/L	
Hg2600-3	BC	BLK	F708527-BLK2	10	8/30/2017 8:59:39	74308-1.RAW	8:59:39 AM	6.49	1		1.1	0.009	0.092	ng/L	
Hg2600-3	BC	SAM	F708527-BS1	10	8/30/2017 9:03:48	74309-1.RAW	9:03:48 AM	2332.58	1		2327.2	20.197	201.970	ng/L	
Hg2600-3	BC	SAM	F708527-BSD1	10	8/30/2017 9:07:56	74310-1.RAW	9:07:56 AM	2435.91	1		2430.5	21.095	210.955	ng/L	
Hg2600-3	BC	SAM	WS	1	8/30/2017 9:15:42	74311-1.RAW	9:15:42 AM	11.58	x		6.2	0.054	0.054	ng/L	
Hg2600-3	BC	SAM	1708151-58	50	8/30/2017 9:19:50	74312-1.RAW	9:19:50 AM	98.05	1		92.6	0.798	39.883	ng/L	
Hg2600-3	BC	SAM	1708151-59	50	8/30/2017 9:23:59	74313-1.RAW	9:23:59 AM	177.59	1		172.2	1.489	74.465	ng/L	
Hg2600-3	BC	SAM	1708151-60	50	8/30/2017 9:28:07	74314-1.RAW	9:28:07 AM	56.68	1		51.3	0.438	21.896	ng/L	
Hg2600-3	BC	SAM	1708151-61	50	8/30/2017 9:32:16	74315-1.RAW	9:32:16 AM	2793.97	1		2788.5	24.240	1211.997	ng/L	
Hg2600-3	BC	SAM	1708151-62	50	8/30/2017 9:36:24	74316-1.RAW	9:36:24 AM	864.09	1		858.7	7.459	372.937	ng/L	
Hg2600-3	BC	SAM	1708151-63	50	8/30/2017 9:40:33	74317-1.RAW	9:40:33 AM	1679.80	1		1674.4	14.552	727.586	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV1	1	8/30/2017 9:44:41	74318-1.RAW	9:44:41 AM	589.58			584.2	5.079	5.079	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB1	1	8/30/2017 9:48:49	74319-1.RAW	9:48:49 AM	6.70			1.3	0.011	0.011	ng/L	
Hg2600-3	BC	SAM	1708151-64	50	8/30/2017 9:52:58	74320-1.RAW	9:52:58 AM	243.47	1		238.0	2.062	103.108	ng/L	
Hg2600-3	BC	SAM	1708154-01	50	8/30/2017 9:57:06	74321-1.RAW	9:57:06 AM	589.20	1		583.8	5.068	253.422	ng/L	
Hg2600-3	BC	SAM	1708154-02	50	8/30/2017 10:01:15	74322-1.RAW	10:01:15 AM	891.10	1		885.7	7.694	384.680	ng/L	
Hg2600-3	BC	SAM	1708154-03	50	8/30/2017 10:05:23	74323-1.RAW	10:05:23 AM	1652.38	1		1647.0	14.313	715.664	ng/L	
Hg2600-3	BC	SAM	1708154-04	50	8/30/2017 10:09:32	74324-1.RAW	10:09:32 AM	1794.85	1		1789.4	15.552	777.606	ng/L	
Hg2600-3	BC	SAM	1708154-05	50	8/30/2017 10:13:40	74325-1.RAW	10:13:40 AM	1575.26	1		1569.8	13.643	682.135	ng/L	
Hg2600-3	BC	SAM	1708154-06	50	8/30/2017 10:17:48	74326-1.RAW	10:17:48 AM	1906.09	1		1900.7	16.519	825.971	ng/L	
Hg2600-3	BC	SAM	1708154-07	50	8/30/2017 10:21:57	74327-1.RAW	10:21:57 AM	600.66	1		595.2	5.168	258.404	ng/L	
Hg2600-3	BC	SAM	1708154-08	50	8/30/2017 10:26:05	74328-1.RAW	10:26:05 AM	109.57	1		104.1	0.898	44.892	ng/L	
Hg2600-3	BC	SAM	1708154-09	50	8/30/2017 10:30:14	74329-1.RAW	10:30:14 AM	3385.45	1		3380.0	29.383	1469.157	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV2	1	8/30/2017 10:34:22	74330-1.RAW	10:34:22 AM	590.84			585.4	5.090	5.090	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB2	1	8/30/2017 10:38:30	74331-1.RAW	10:38:30 AM	7.53			2.1	0.018	0.018	ng/L	
Hg2600-3	BC	SAM	1708154-10	50	8/30/2017 10:42:39	74332-1.RAW	10:42:39 AM	3255.22	1		3249.8	28.251	1412.536	ng/L	
Hg2600-3	BC	SAM	1708155-01	50	8/30/2017 10:46:47	74333-1.RAW	10:46:47 AM	1558.01	1		1552.6	13.493	674.635	ng/L	
Hg2600-3	BC	SAM	1708155-02	50	8/30/2017 10:50:56	74334-1.RAW	10:50:56 AM	2113.71	1		2108.3	18.325	916.238	ng/L	
Hg2600-3	BC	SAM	1708155-03	50	8/30/2017 10:55:04	74335-1.RAW	10:55:04 AM	1755.00	1		1749.6	15.206	760.281	ng/L	
Hg2600-3	BC	SAM	1708155-03RE1	50	8/30/2017 10:59:54	74336-1.RAW	10:59:54 AM	1745.48	1		1740.1	15.123	756.142	ng/L	
Hg2600-3	BC	SAM	1708151-58RE1	10	8/30/2017 11:04:02	74337-1.RAW	11:04:02 AM	471.93	1		466.5	4.018	40.177	ng/L	
Hg2600-3	BC	SAM	1708151-60RE1	10	8/30/2017 11:08:11	74338-1.RAW	11:08:11 AM	272.56	1		267.1	2.284	22.841	ng/L	
Hg2600-3	BC	SAM	1708154-08RE1	10	8/30/2017 11:12:19	74339-1.RAW	11:12:19 AM	521.34	1		515.9	4.447	44.474	ng/L	
Hg2600-3	BC	SAM	F708527-MS1	400	8/30/2017 11:16:28	74340-1.RAW	11:16:28 AM	978.30	1		972.9	8.459	3383.448	ng/L	
Hg2600-3	BC	SAM	F708527-MSD1	400	8/30/2017 11:22:49	74341-1.RAW	11:22:49 AM	1005.69	1		1000.3	8.697	3478.716	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV3	1	8/30/2017 11:26:57	74342-1.RAW	11:26:57 AM	582.42			577.0	5.017	5.017	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB3	1	8/30/2017 11:31:06	74343-1.RAW	11:31:06 AM	10.17			4.7	0.041	0.041	ng/L	
Hg2600-3	BC	SAM	F708527-MS2	400	8/30/2017 11:35:14	74344-1.RAW	11:35:14 AM	776.40	1		771.0	6.703	2681.202	ng/L	
Hg2600-3	BC	SAM	F708527-MSD2	400	8/30/2017 11:39:22	74345-1.RAW	11:39:22 AM	845.30	1		839.9	7.302	2920.850	ng/L	
Hg2600-3	BC	BLK	F708569-BLK1	10	8/30/2017 11:43:31	74346-1.RAW	11:43:31 AM	8.82	2		3.4	0.030	0.295	ng/L	
Hg2600-3	BC	BLK	F708569-BLK2	10	8/30/2017 11:47:39	74347-1.RAW	11:47:39 AM	5.59	2		0.2	0.001	0.014	ng/L	
Hg2600-3	BC	SAM	F708569-BS1	10	8/30/2017 11:51:48	74348-1.RAW	11:51:48 AM	2466.72	2		2461.3	21.387	213.866	ng/L	
Hg2600-3	BC	SAM	F708569-BSD1	10	8/30/2017 11:55:56	74349-1.RAW	11:55:56 AM	2486.13	2		2480.7	21.555	215.554	ng/L	
Hg2600-3	BC	SAM	1708151-27RE1	50	8/30/2017 12:00:04	74350-1.RAW	12:00:04 PM	198.20	2		192.8	1.673	83.658	ng/L	
Hg2600-3	BC	SAM	1708151-28RE1	50	8/30/2017 12:04:13	74351-1.RAW	12:04:13 PM	1181.08	2		1175.7	10.220	510.988	ng/L	
Hg2600-3	BC	SAM	1708151-29RE1	50	8/30/2017 12:08:21	74352-1.RAW	12:08:21 PM	776.68	2		771.3	6.703	335.166	ng/L	
Hg2600-3	BC	SAM	1708151-30RE1	50	8/30/2017 12:12:30	74353-1.RAW	12:12:30 PM	1229.60	2		1224.2	10.642	532.083	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV4	1	8/30/2017 12:16:38	74354-1.RAW	12:16:38 PM	590.71			585.3	5.089	5.089	ng/L	

Instrument	Sample			Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments	
	Analyst	Type	LabNumber							Correction?	RESP					
Hg2600-3	BC	CAL	SEQ-CCB4	1	8/30/2017 12:20:47	74355-1.RAW	12:20:47 PM	8.74				3.3	0.029	0.029	ng/L	
Hg2600-3	BC	SAM	1708151-31RE2	50	8/30/2017 12:24:55	74356-1.RAW	12:24:55 PM	837.07	2			831.6	7.228	361.422	ng/L	
Hg2600-3	BC	SAM	1708151-32RE1	50	8/30/2017 12:29:03	74357-1.RAW	12:29:03 PM	1250.05	2			1244.6	10.819	540.974	ng/L	
Hg2600-3	BC	SAM	1708151-33RE1	50	8/30/2017 12:33:12	74358-1.RAW	12:33:12 PM	3041.10	2			3035.7	26.394	1319.675	ng/L	
Hg2600-3	BC	SAM	1708151-34RE1	50	8/30/2017 12:37:20	74359-1.RAW	12:37:20 PM	1892.77	2			1887.3	16.408	820.412	ng/L	
Hg2600-3	BC	SAM	1708151-35RE1	50	8/30/2017 12:41:29	74360-1.RAW	12:41:29 PM	2387.65	2			2382.2	20.711	1035.573	ng/L	
Hg2600-3	BC	SAM	1708151-36RE1	50	8/30/2017 12:45:37	74361-1.RAW	12:45:37 PM	1531.10	2			1525.7	13.263	663.168	ng/L	
Hg2600-3	BC	SAM	1708151-37RE1	50	8/30/2017 12:49:45	74362-1.RAW	12:49:45 PM	1767.91	2			1762.5	15.323	766.126	ng/L	
Hg2600-3	BC	SAM	1708156-08	50	8/30/2017 12:53:54	74363-1.RAW	12:53:54 PM	584.77	2			579.3	5.035	251.728	ng/L	
Hg2600-3	BC	SAM	1708523-01	50	8/30/2017 12:58:03	74364-1.RAW	12:58:03 PM	1973.84	2			1968.4	17.113	855.659	ng/L	
Hg2600-3	BC	SAM	1708523-02	50	8/30/2017 13:02:12	74365-1.RAW	1:02:12 PM	1870.23	2			1864.8	16.212	810.612	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV5	1	8/30/2017 13:06:20	74366-1.RAW	1:06:20 PM	586.02				580.6	5.049	5.049	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB5	1	8/30/2017 13:10:29	74367-1.RAW	1:10:29 PM	11.11				5.7	0.049	0.049	ng/L	
Hg2600-3	BC	SAM	ws		8/30/2017 13:23:31	74368-1.RAW	1:23:31 PM	14.28		x		8.9	0.077	0.000	ng/L	
Hg2600-3	BC	SAM	1708523-03	50	8/30/2017 13:27:39	74369-1.RAW	1:27:39 PM	1460.00	2			1454.6	12.645	632.255	ng/L	
Hg2600-3	BC	SAM	1708524-01	50	8/30/2017 13:31:47	74370-1.RAW	1:31:47 PM	2139.13	2			2133.7	18.550	927.523	ng/L	
Hg2600-3	BC	SAM	1708524-02	50	8/30/2017 13:35:56	74371-1.RAW	1:35:56 PM	2136.53	2			2131.1	18.528	926.392	ng/L	
Hg2600-3	BC	SAM	1708524-03	50	8/30/2017 13:40:04	74372-1.RAW	1:40:04 PM	1649.06	2			1643.6	14.289	714.453	ng/L	
Hg2600-3	BC	SAM	1708524-04	50	8/30/2017 13:44:13	74373-1.RAW	1:44:13 PM	4791.67	2			4786.2	41.616	2080.777	ng/L	
Hg2600-3	BC	SAM	1708524-05	50	8/30/2017 13:48:21	74374-1.RAW	1:48:21 PM	4359.65	2			4354.2	37.859	1892.946	ng/L	
Hg2600-3	BC	SAM	F708569-MS1	400	8/30/2017 13:52:30	74375-1.RAW	1:52:30 PM	824.16	2			818.7	7.119	2847.553	ng/L	
Hg2600-3	BC	SAM	F708569-MSD1	400	8/30/2017 13:56:38	74376-1.RAW	1:56:38 PM	825.80	2			820.4	7.133	2853.257	ng/L	
Hg2600-3	BC	SAM	F708569-MS2	400	8/30/2017 14:00:47	74377-1.RAW	2:00:47 PM	888.95	2			883.5	7.682	3072.905	ng/L	
Hg2600-3	BC	SAM	F708569-MSD2	400	8/30/2017 14:04:55	74378-1.RAW	2:04:55 PM	876.84	2			871.4	7.577	3030.784	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV6	1	8/30/2017 14:09:03	74379-1.RAW	2:09:03 PM	587.75				582.3	5.064	5.064	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB6	1	8/30/2017 14:13:12	74380-1.RAW	2:13:12 PM	12.47				7.0	0.061	0.061	ng/L	
Hg2600-3	BC	SAM	1708524-04RE1	100	8/30/2017 14:17:20	74381-1.RAW	2:17:20 PM	2403.54	2			2398.1	20.851	2085.117	ng/L	
Hg2600-3	BC	SAM	1708524-05RE1	100	8/30/2017 14:21:29	74382-1.RAW	2:21:29 PM	2161.38	2			2156.0	18.745	1874.548	ng/L	
Hg2600-3	BC	BLK	F708583-BLK1	50	8/30/2017 14:25:37	74383-1.RAW	2:25:37 PM	11.88	3			6.5	0.056	2.806	ng/L	
Hg2600-3	BC	BLK	F708583-BLK2	50	8/30/2017 14:29:46	74384-1.RAW	2:29:46 PM	6.13	3			0.7	0.006	0.306	ng/L	
Hg2600-3	BC	SAM	F708583-BS1	400	8/30/2017 14:33:54	74385-1.RAW	2:33:54 PM	703.30	3			697.9	6.064	2425.778	ng/L	
Hg2600-3	BC	SAM	1708773-01	50	8/30/2017 14:38:03	74386-1.RAW	2:38:03 PM	6.69	3			1.3	-0.020	-1.007	ng/L	
Hg2600-3	BC	SAM	F708583-DUP1	50	8/30/2017 14:42:11	74387-1.RAW	2:42:11 PM	4.90	3			-0.5	-0.036	-1.785	ng/L	
Hg2600-3	BC	SAM	F708583-MS1	400	8/30/2017 14:46:19	74388-1.RAW	2:46:19 PM	803.27	3			797.8	6.934	2773.493	ng/L	
Hg2600-3	BC	SAM	F708583-BSD1	400	8/30/2017 14:50:28	74389-1.RAW	2:50:28 PM	804.38	3			799.0	6.943	2777.354	ng/L	
Hg2600-3	BC	CAL	SEQ-CCV7	1	8/30/2017 14:54:37	74390-1.RAW	2:54:37 PM	585.69				580.3	5.046	5.046	ng/L	
Hg2600-3	BC	CAL	SEQ-CCB7	1	8/30/2017 14:58:46	74391-1.RAW	2:58:46 PM	10.45				5.0	0.044	0.044	ng/L	

TotalMercury EPA1631  
 Operate BC  
 BlankS: 5.4274  
 Calib Eqn: Conc = (Area-5.427  
 Run Date: 8/30/2017  
 Blank SD: 2.826673022  
 Method THg2601  
 CalibFa 115  
 Status: QC Warnings:4/QC E  
 Run Time: 13:19:21  
 Blank RSD%: 52.08118226  
 R: 1  
 R2: 1  
 Method ####  
 Descrip THg26003-170830-1  
 CF SD: 3.264544758  
 CF RSD%: 2.838732042

Sample/ID	Location	Rinse	Dilute	Blank	Conc (ppt)	MB%	FinalConc	Rec%	QA	RawData	RunEnd	Peak (Raw)	Control (etf)	Flags	RunCount	Comment
Clean				0.00	2.14					74293-1.RAW	7:58:50	245.80	Clean	OK	1	
clean										74294-1.RAW	8:01:41	0.00	Clean	NP	1	
ws				5.43	0.00					74295-1.RAW	8:05:50	3.88	Sample	OK	1	
ws										74296-1.RAW	8:09:58	0.00	Sample	NP	1	
ws				5.43	0.00					74297-1.RAW	8:14:07	3.30	Sample	OK	1	
SEQ-IBL1	A1		1	0.00	0.04					74298-1.RAW	8:18:15	4.23	Sample	OK	1	
SEQ-IBL2	A2		1	0.00	0.03					74299-1.RAW	8:22:23	3.39	Sample	OK	1	
SEQ-IBL3	A3		1	0.00	0.08					74300-1.RAW	8:26:32	8.66	Sample	OK	1	
SEQ-CAL1	A4		1	5.43	0.52		104.73			74301-1.RAW	8:30:40	65.65	Sample	OK	1	
SEQ-CAL2	A5		1	5.43	0.98		97.83			74302-1.RAW	8:34:49	117.93	Sample	OK	1	
SEQ-CAL3	A6		1	5.43	5.03		100.56			74303-1.RAW	8:38:57	583.64	Sample	OK	1	
SEQ-CAL4	A7		1	5.43	19.70		98.48			74304-1.RAW	8:43:05	2270.49	Sample	OK	1	
SEQ-CAL5	A8		1	5.43	39.36		98.41			74305-1.RAW	8:47:14	4532.08	Sample	OK	1	
SEQ-ICV1	A9		1	5.43	5.16		103.28			74306-1.RAW	8:51:22	599.29	Sample	OK	1	
F708527-BLK1	A10		10	5.43	0.68					74307-1.RAW	8:55:31	13.27	Sample	OK	1	
F708527-BLK2	A11		10	5.43	0.09					74308-1.RAW	8:59:39	6.49	Sample	OK	1	
F708527-BS1	A12		10	5.43	202.36					74309-1.RAW	9:03:48	2332.58	Sample	OK	1	
F708527-BSD1	B1		10	5.43	211.35					74310-1.RAW	9:07:56	2435.91	Sample	OK	1	
WS				5.43	0.05					74311-1.RAW	9:15:42	11.58	Sample	OK	1	STALLED
1708151-58	B2		50	5.43	40.27					74312-1.RAW	9:19:50	98.05	Sample	OK	1	
1708151-59	B3		50	5.43	74.85					74313-1.RAW	9:23:59	177.59	Sample	OK	1	
1708151-60	B4		50	5.43	22.28					74314-1.RAW	9:28:07	56.68	Sample	OK	1	
1708151-61	B5		50	5.43	1212.41					74315-1.RAW	9:32:16	2793.97	Sample	FB	1	
1708151-62	B6		50	5.43	373.33					74316-1.RAW	9:36:24	864.09	Sample	OK	1	
1708151-63	B7		50	5.43	727.99					74317-1.RAW	9:40:33	1679.80	Sample	OK	1	
SEQ-CCV1	B8		1	5.43	5.08		101.59			74318-1.RAW	9:44:41	589.58	Sample	OK	1	
SEQ-CCB1	B9		1	5.43	0.01		0.00			74319-1.RAW	9:48:49	6.70	Sample	OK	1	
1708151-64	B10		50	5.43	103.50					74320-1.RAW	9:52:58	243.47	Sample	OK	1	
1708154-01	B11		50	5.43	253.82					74321-1.RAW	9:57:06	589.20	Sample	OK	1	
1708154-02	B12		50	5.43	385.07					74322-1.RAW	10:01:15	891.10	Sample	OK	1	
1708154-03	C1		50	5.43	716.07					74323-1.RAW	10:05:23	1652.38	Sample	OK	1	
1708154-04	C2		50	5.43	778.01					74324-1.RAW	10:09:32	1794.85	Sample	OK	1	
1708154-05	C3		50	5.43	682.54					74325-1.RAW	10:13:40	1575.26	Sample	OK	1	
1708154-06	C4		50	5.43	826.37					74326-1.RAW	10:17:48	1906.09	Sample	OK	1	
1708154-07	C5		50	5.43	258.79					74327-1.RAW	10:21:57	600.66	Sample	OK	1	
1708154-08	C6		50	5.43	45.28					74328-1.RAW	10:26:05	109.57	Sample	OK	1	
1708154-09	C7		50	5.43	1469.57					74329-1.RAW	10:30:14	3385.45	Sample	OK	1	
SEQ-CCV2	C8		1	5.43	5.09		101.81			74330-1.RAW	10:34:22	590.84	Sample	OK	1	
SEQ-CCB2	C9		1	5.43	0.02		0.00			74331-1.RAW	10:38:30	7.53	Sample	OK	1	
1708154-10	C10		50	5.43	1412.95					74332-1.RAW	10:42:39	3255.22	Sample	OK	1	
1708155-01	C11		50	5.43	675.03					74333-1.RAW	10:46:47	1558.01	Sample	OK	1	
1708155-02	C12		50	5.43	916.64					74334-1.RAW	10:50:56	2113.71	Sample	OK	1	
1708155-03	D1		50	5.43	760.68					74335-1.RAW	10:55:04	1755.00	Sample	OK	1	
1708155-03RE1	D1		50	5.43	756.54					74336-1.RAW	10:59:54	1745.48	Sample	OK	1	
1708151-58RE1	D2		10	5.43	40.57					74337-1.RAW	11:04:02	471.93	Sample	OK	1	
1708151-60RE1	D3		10	5.43	23.23					74338-1.RAW	11:08:11	272.56	Sample	OK	1	

1708154-08RE1	D4	10	5.43	44.86	7406.25	74339-1.RAW	11:12:19	521.34	Sample	OK	1
F708527-MS1	D5	400	5.43	3383.91	7378.50	74340-1.RAW	11:16:28	978.30	Sample	OK	1
F708527-MSD1	D6	400	5.43	3479.18		74341-1.RAW	11:22:49	1005.69	Sample	OK	1
SEQ-CCV3	D7	1	5.43	5.02	100.35	74342-1.RAW	11:26:57	582.42	Sample	OK	1
SEQ-CCB3	D8	1	5.43	0.04	0.00	74343-1.RAW	11:31:06	10.17	Sample	OK	1
F708527-MS2	D9	400	5.43	2681.64	131373.50	74344-1.RAW	11:35:14	776.40	Sample	OK	1
F708527-MSD2	D10	400	5.43	2921.31		74345-1.RAW	11:39:22	845.30	Sample	OK	1
F708569-BLK1	D11	10	5.43	0.29		74346-1.RAW	11:43:31	8.82	Sample	OK	1
F708569-BLK2	D12	10	5.43	0.01		74347-1.RAW	11:47:39	5.59	Sample	OK	1
F708569-BS1	A1	10	5.43	214.02		74348-1.RAW	11:51:48	2466.72	Sample	OK	1
F708569-BSD1	A2	10	5.43	215.71		74349-1.RAW	11:55:56	2486.13	Sample	OK	1
1708151-27RE1	A3	50	5.43	83.81		74350-1.RAW	12:00:04	198.20	Sample	OK	1
1708151-28RE1	A4	50	5.43	511.15		74351-1.RAW	12:04:13	1181.08	Sample	OK	1
1708151-29RE1	A5	50	5.43	335.33		74352-1.RAW	12:08:21	776.68	Sample	OK	1
1708151-30RE1	A6	50	5.43	532.25		74353-1.RAW	12:12:30	1229.60	Sample	OK	1
SEQ-CCV4	A7	1	5.43	5.09	101.79	74354-1.RAW	12:16:38	590.71	Sample	OK	1
SEQ-CCB4	A8	1	5.43	0.03	0.00	74355-1.RAW	12:20:47	8.74	Sample	OK	1
1708151-31RE2	A9	50	5.43	361.58		74356-1.RAW	12:24:55	837.07	Sample	OK	1
1708151-32RE1	A10	50	5.43	541.14		74357-1.RAW	12:29:03	1250.05	Sample	OK	1
1708151-33RE1	A11	50	5.43	1319.85		74358-1.RAW	12:33:12	3041.10	Sample	OK	1
1708151-34RE1	A12	50	5.43	820.58		74359-1.RAW	12:37:20	1892.77	Sample	OK	1
1708151-35RE1	B1	50	5.43	1035.75		74360-1.RAW	12:41:29	2387.65	Sample	OK	1
1708151-36RE1	B2	50	5.43	663.34		74361-1.RAW	12:45:37	1531.10	Sample	OK	1
1708151-37RE1	B3	50	5.43	766.29		74362-1.RAW	12:49:45	1767.91	Sample	OK	1
1708156-08	B4	50	5.43	251.89		74363-1.RAW	12:53:54	584.77	Sample	OK	1
1708523-01	B5	50	5.43	855.83		74364-1.RAW	12:58:03	1973.84	Sample	OK	1
1708523-02	B6	50	5.43	810.78		74365-1.RAW	13:02:12	1870.23	Sample	OK	1
SEQ-CCV5	B7	1	5.43	5.05	100.97	74366-1.RAW	13:06:20	586.02	Sample	OK	1
SEQ-CCB5	B8	1	5.43	0.05	0.00	74367-1.RAW	13:10:29	11.11	Sample	OK	1
ws			5.43	0.08		74368-1.RAW	13:23:31	14.28	Sample	OK	1
1708523-03	B9	50	5.43	632.42		74369-1.RAW	13:27:39	1460.00	Sample	OK	1
1708524-01	B10	50	5.43	927.69		74370-1.RAW	13:31:47	2139.13	Sample	OK	1
1708524-02	B11	50	5.43	926.57		74371-1.RAW	13:35:56	2136.53	Sample	OK	1
1708524-03	B12	50	5.43	714.62		74372-1.RAW	13:40:04	1649.06	Sample	OK	1
1708524-04	C1	50	5.43	2080.97		74373-1.RAW	13:44:13	4791.67	Sample	FB	1
1708524-05	C2	50	5.43	1893.14		74374-1.RAW	13:48:21	4359.65	Sample	FB	1
F708569-MS1	C3	400	5.43	2847.76	150.35	74375-1.RAW	13:52:30	824.16	Sample	OK	1
F708569-MSD1	C4	400	5.43	2853.46		74376-1.RAW	13:56:38	825.80	Sample	OK	1
F708569-MS2	C5	400	5.43	3073.12	107.62	74377-1.RAW	14:00:47	888.95	Sample	OK	1
F708569-MSD2	C6	400	5.43	3031.00		74378-1.RAW	14:04:55	876.84	Sample	OK	1
SEQ-CCV6	C7	1	5.43	5.06	101.27	74379-1.RAW	14:09:03	587.75	Sample	OK	1
SEQ-CCB6	C8	1	5.43	0.06	0.00	74380-1.RAW	14:13:12	12.47	Sample	OK	1
1708524-04RE1	C9	100	5.43	2085.31		74381-1.RAW	14:17:20	2403.54	Sample	OK	1
1708524-05RE1	C10	100	5.43	1874.74		74382-1.RAW	14:21:29	2161.38	Sample	OK	1
F708583-BLK1	C11	50	5.43	2.81		74383-1.RAW	14:25:37	11.88	Sample	OK	1
F708583-BLK2	C12	50	5.43	0.30		74384-1.RAW	14:29:46	6.13	Sample	OK	1
F708583-BS1	D1	400	5.43	2427.36		74385-1.RAW	14:33:54	703.30	Sample	OK	1
1708773-01	D2	50	5.43	0.55		74386-1.RAW	14:38:03	6.69	Sample	OK	1
F708583-DUP1	D3	50	5.43	0.00		74387-1.RAW	14:42:11	4.90	Sample	OK	1
F708583-MS1	D4	400	5.43	2775.10	277510.46	74388-1.RAW	14:46:19	803.27	Sample	OK	1
F708583-BSD1	D5	400	5.43	2778.96		74389-1.RAW	14:50:28	804.38	Sample	OK	1

STALLED

SEQ-CCV7	D6	1	5.43	5.05	100.91	74390-1.RAW	14:54:37	585.69 Sample	OK	1
SEQ-CCB7	D7	1	5.43	0.04	0.00	74391-1.RAW	14:58:46	10.45 Sample	OK	1

QUALITY ASSURANCE

ANALYSIS SEQUENCE

7H30017

PEER-REVIEWED



INITIALS: *A 9/5/17* Analyzed: 8/30/2017

Instrument: Hg2600-3 ✓

Calibration ID: UNASSIGNED

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H30017-IBL1	QC	1			
7H30017-IBL2 ✓	QC	2			
7H30017-IBL3 ✓	QC	3			
7H30017-CAL1 ✓	QC	4	1704505		
7H30017-CAL2 ✓	QC	5	1704506		
7H30017-CAL3 ✓	QC	6	1704507		
7H30017-CAL4 ✓	QC	7	1704508		
7H30017-CAL5 ✓	QC	8	1704509		
7H30017-ICV1 ✓	QC	9	1703679		
F708527-BLK1 ✓	QC	10			
F708527-BLK2 ✓	QC	11			
F708527-BS1 ✓	QC	12			
F708527-BSD1 ✓	QC	13			
1708151-58 ✓	Hg-CVAFS-S-7474	14			
1708151-59 ✓	Hg-CVAFS-S-7474	15			
1708151-60 ✓	Hg-CVAFS-S-7474	16			
1708151-61 ✓	Hg-CVAFS-S-7474	17			
1708151-62 ✓	Hg-CVAFS-S-7474	18			
1708151-63 ✓	Hg-CVAFS-S-7474	19			
7H30017-CCV1 ✓	QC	20	1703679		
7H30017-CCB1 ✓	QC	21			
1708151-64 ✓	Hg-CVAFS-S-7474	22			
1708154-01 ✓	Hg-CVAFS-S-7474	23			
1708154-02 ✓	Hg-CVAFS-S-7474	24			
1708154-03 ✓	Hg-CVAFS-S-7474	25			
1708154-04 ✓	Hg-CVAFS-S-7474	26			
1708154-05 ✓	Hg-CVAFS-S-7474	27			
1708154-06 ✓	Hg-CVAFS-S-7474	28			
1708154-07 ✓	Hg-CVAFS-S-7474	29			
1708154-08 ✓	Hg-CVAFS-S-7474	30			
1708154-09 ✓	Hg-CVAFS-S-7474	31			
7H30017-CCV2 ✓	QC	32	1703679		
7H30017-CCB2 ✓	QC	33			
1708154-10 ✓	Hg-CVAFS-S-7474	34			
1708155-01 ✓	Hg-CVAFS-S-7474	35			

## ANALYSIS SEQUENCE

7H30017



Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/30/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708155-02	Hg-CVAFS-S-7474	36			
1708155-03	Hg-CVAFS-S-7474	37			
1708155-03RE1	Hg-CVAFS-S-7474	38			Added 8/30/2017 by BC
1708151-58RE1	Hg-CVAFS-S-7474	39			Added 8/30/2017 by BC
1708151-60RE1	Hg-CVAFS-S-7474	40			Added 8/30/2017 by BC
1708154-08RE1	Hg-CVAFS-S-7474	41			Added 8/30/2017 by BC
F708527-MS1	QC	42			
F708527-MSD1	QC	43			
7H30017-CCV3	QC	44	1703679		
7H30017-CCB3	QC	45			
F708527-MS2	QC	46			
F708527-MSD2	QC	47			
F708569-BLK1	QC	48			
F708569-BLK2	QC	49			
F708569-BS1	QC	50			
F708569-BSD1	QC	51			
1708151-27RE1	Hg-CVAFS-S-7474	52			Re-extract added 8/28/2017 by PL
1708151-28RE1	Hg-CVAFS-S-7474	53			Re-extract added 8/28/2017 by PL
1708151-29RE1	Hg-CVAFS-S-7474	54			Re-extract added 8/28/2017 by PL
1708151-30RE1	Hg-CVAFS-S-7474	55			Re-extract added 8/28/2017 by PL
7H30017-CCV4	QC	56	1703679		
7H30017-CCB4	QC	57			
1708151-31RE2	Hg-CVAFS-S-7474	58			Re-extract added 8/28/2017 by PL
1708151-32RE1	Hg-CVAFS-S-7474	59			Re-extract added 8/28/2017 by PL
1708151-33RE1	Hg-CVAFS-S-7474	60			Re-extract added 8/28/2017 by PL
1708151-34RE1	Hg-CVAFS-S-7474	61			Re-extract added 8/28/2017 by PL
1708151-35RE1	Hg-CVAFS-S-7474	62			Re-extract added 8/28/2017 by PL
1708151-36RE1	Hg-CVAFS-S-7474	63			Re-extract added 8/28/2017 by PL
1708151-37RE1	Hg-CVAFS-S-7474	64			Re-extract added 8/28/2017 by PL
1708156-08	Hg-CVAFS-S-7474	65			
1708523-01	Hg-CVAFS-S-7474	66			
1708523-02	Hg-CVAFS-S-7474	67			
7H30017-CCV5	QC	68	1703679		
7H30017-CCB5	QC	69			
1708523-03	Hg-CVAFS-S-7474	70			

Due Date: 9/5/2017

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Page 2 of 3



ANALYSIS SEQUENCE

7H30017



Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/30/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708524-01	Hg-CVAFS-S-7474	71			
1708524-02	Hg-CVAFS-S-7474	72			
1708524-03	Hg-CVAFS-S-7474	73			
1708524-04	Hg-CVAFS-S-7474	74			
1708524-05	Hg-CVAFS-S-7474	75			
F708569-MS1	QC	76			
F708569-MSD1	QC	77			
F708569-MS2	QC	78			
F708569-MSD2	QC	79			
7H30017-CCV6	QC	80	1703679	/	
7H30017-CCB6	QC	81			
1708524-04RE1	Hg-CVAFS-S-7474	82			Added 8/30/2017 by BC
1708524-05RE1	Hg-CVAFS-S-7474	83			Added 8/30/2017 by BC
7H30017-CCV7	QC	84	1703679	/	
7H30017-CCB7	QC	85			

Beavis 8/30/17  
Samples Loaded By                      Date

Beavis 8/30/17  
Data Processed By                      Date

**PREPARATION BENCH SHEET**

F708569

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/29/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708569-BLK1	Blank	0.5	200					
F708569-BLK2	Blank	0.5	200					
F708569-BS1	Blank Spike	0.5	200	1701763	40			
F708569-BSD1	Blank Spike Dup	0.5	200	1701763	40			
F708569-MS1	Matrix Spike [1708151-30RE1]	0.5321	200	1703591	50			
F708569-MS2	Matrix Spike [1708523-01]	0.5685	200	1703591	50			
F708569-MSD1	Matrix Spike Dup [1708151-30RE1]	0.5914	200	1703591	50			
F708569-MSD2	Matrix Spike Dup [1708523-01]	0.5719	200	1703591	50			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1701763	THg 1,000ng/mL Secondary Spiking Standard	22-Sep-17 00:00	1703182	25% Hydroxylamine-HCl working solution	24-Nov-17 00:00
1703591	THg 10,000ng/mL Primary Spiking Standard	14-Dec-17 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
			1704484	Fisher Nitric Acid, Tracemetal Grade	15-Mar-19 00:00
			1704516	THg Washstation (0.5% BrCl)	24-Nov-17 00:00
			1704517	THg Dilute 1% BrCl	18-Dec-17 00:00
			1704640	Omnitrace Hydrochloric Acid	27-Jul-20 00:00
			1704956	3% SnCl <sub>2</sub> THg reductant	29-Jan-18 00:00
			1705244	7474 Potassium Bromate/Bromide Reagent	05-Sep-17 00:00

**PREPARATION BENCH SHEET**

F708569

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/29/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-27RE1	W-MM-16_080117_SED_00-01	0.579	200	-	-	-	Re-extract added 8/28/2017 by PL	
1708151-28RE1	W-MM-16_080117_SED_01-03	0.5352	200	-	-	-	Re-extract added 8/28/2017 by PL	
1708151-29RE1	W-MM-20_080117_SED_00-01	0.54	200	-	-	-	Re-extract added 8/28/2017 by PL	
1708151-30RE1	W-MM-20_080117_SED_01-03	0.553	200	-	-	-	Original jar broken, transferred sample	
1708151-31RE2	W-MM-21_080117_SED_00-01	0.5539	200	-	-	-	Re-extract added 8/28/2017 by PL	
1708151-32RE1	W-MM-21_080117_SED_01-03	0.5542	200	-	-	-	Re-extract added 8/28/2017 by PL	
1708151-33RE1	W-100-A_080317_SED_03-05	0.5604	200	-	-	-	Re-extract added 8/28/2017 by PL	
1708151-34RE1	W-100-A_080317_SED_05-10	0.557	200	-	-	-	Re-extract added 8/28/2017 by PL	
1708151-35RE1	W-101-INTA_080317_SED_03-05	0.5438	200	-	-	-	Re-extract added 8/28/2017 by PL	
1708151-36RE1	W-101-INTA_080317_SED_05-10	0.5836	200	-	-	-	Re-extract added 8/28/2017 by PL	
1708151-37RE1	W-104-B_080317_SED_03-05_R1	0.5417	200	-	-	-	Re-extract added 8/28/2017 by PL	
1708156-08	ES-04_072817_SED_00-03	0.5281	200	-	-	-		
1708523-01	ES-13_081517_Sed_00-01	0.5646	200	-	-	-		
1708523-02	ES-13_081517_Sed_01-03	0.5349	200	-	-	-		
1708523-03	ES-13_081717_Sed_03-05	0.5358	200	-	-	-		
1708524-01	W-101-A_081517_SED_00-01	0.5983	200	-	-	-		
1708524-02	W-101-A_081517_SED_01-03	0.5597	200	-	-	-		
1708524-03	W-101-B_081517_SED_00-01	0.5789	200	-	-	-		
1708524-04	W-101-B_081517_SED_01-03_R1	0.5715	200	-	-	-		

**PREPARATION BENCH SHEET**

F708569

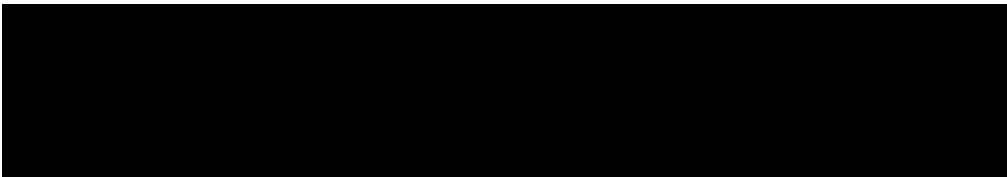
**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/29/2017**

1708524-04RE1	W-101-B_081517_SED_01-03_R1	0.5715	200	-	-	-	Added 8/30/2017 by BC	Added 8/30/2017 by BC
1708524-05	W-101-B_081517_SED_01-03_R2	0.58	200	-	-	-		
1708524-05RE1	W-101-B_081517_SED_01-03_R2	0.58	200	-	-	-	Added 8/30/2017 by BC	Added 8/30/2017 by BC



PREPARATION BENCH SHEET

2600-3  
8/30/17 BC

F708569

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/29/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708569-BLK1	Blank	0.5	200					10x
F708569-BLK2	Blank	0.5	200					10x
F708569-BS1	Blank Spike	0.5	200	1701763	40			10x
F708569-BSD1	Blank Spike Dup	0.5	200	1701763	40			10x
F708569-MS1	Matrix Spike [1708151-30RE1]	0.5321	200	1703591	50			400x
F708569-MS2	Matrix Spike [1708523-01]	0.5685	200	1703591	50			400x
F708569-MSD1	Matrix Spike Dup [1708151-30RE1]	0.5914	200	1703591	50			400x
F708569-MSD2	Matrix Spike Dup [1708523-01]	0.5719	200	1703591	50			400x

Standard ID(s):  
1701763 THg 1,000ng/mL Secondary Spiking Standard  
1703591 THg 10,000ng/mL Primary Spiking Standard

Expiration:  
22-Sep-17 00:00  
14-Dec-17 00:00

Reagent ID(s):  
1704424 Boiling Chips for AFS prep  
1704484 Fisher Nitric Acid, Tracemetal Grade  
1704640 Omnitrace Hydrochloric Acid  
1705244 7474 Potassium Bromate/Bromide Reagent

Description:  
Boiling Chips for AFS prep  
Fisher Nitric Acid, Tracemetal Grade  
Omnitrace Hydrochloric Acid  
7474 Potassium Bromate/Bromide Reagent

Expiration:  
21-Jan-18 00:00  
15-Mar-19 00:00  
27-Jul-20 00:00  
05-Sep-17 00:00

~~17004~~  
1704516  
1704517  
1704956  
1703182

Due Date: 9/5/2017

2600-3

8/30/17 BC

PREPARATION BENCH SHEET

F708569

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/29/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-27RE1	W-MM-16_080117_SED_00-01	0.579	200	-	-	-	Re-extract added 8/28/2017 by PL 50X	
1708151-28RE1	W-MM-16_080117_SED_01-03	0.5352	200	-	-	-	Re-extract added 8/28/2017 by PL 50X	
1708151-29RE1	W-MM-20_080117_SED_00-01	0.54	200	-	-	-	Re-extract added 8/28/2017 by PL 50X	
1708151-30RE1	W-MM-20_080117_SED_01-03	0.553	200	-	-	-	Original jar broken, transferred sample 50X	
1708151-31RE2	W-MM-21_080117_SED_00-01	0.5539	200	-	-	-	Re-extract added 8/28/2017 by PL 50X	
1708151-32RE1	W-MM-21_080117_SED_01-03	0.5542	200	-	-	-	Re-extract added 8/28/2017 by PL 50X	
1708151-33RE1	W-100-A_080317_SED_03-05	0.5604	200	-	-	-	Re-extract added 8/28/2017 by PL 50X	
1708151-34RE1	W-100-A_080317_SED_05-10	0.557	200	-	-	-	Re-extract added 8/28/2017 by PL 50X	
1708151-35RE1	W-101-INTA_080317_SED_03-05	0.5438	200	-	-	-	Re-extract added 8/28/2017 by PL 50X	
1708151-36RE1	W-101-INTA_080317_SED_05-10	0.5836	200	-	-	-	Re-extract added 8/28/2017 by PL 50X	
1708151-37RE1	W-104-B_080317_SED_03-05_R1	0.5417	200	-	-	-	Re-extract added 8/28/2017 by PL 50X	
1708156-08	ES-04_072817_SED_00-03	0.5281	200	-	-	-	50X	
1708523-01	ES-13_081517_Sed_00-01	0.5646	200	-	-	-	50X	
1708523-02	ES-13_081517_Sed_01-03	0.5349	200	-	-	-	50X	
1708523-03	ES-13_081717_Sed_03-05	0.5358	200	-	-	-	50X	
1708524-01	W-101-A_081517_SED_00-01	0.5983	200	-	-	-	50X	
1708524-02	W-101-A_081517_SED_01-03	0.5597	200	-	-	-	50X	
1708524-03	W-101-B_081517_SED_00-01	0.5789	200	-	-	-	50X	
1708524-04	W-101-B_081517_SED_01-03_R1	0.5715	200	-	-	-	50X → 100X	

Due Date: 9/5/2017

PREPARATION BENCH SHEET

2600-3  
8/30/17 BC

F708569

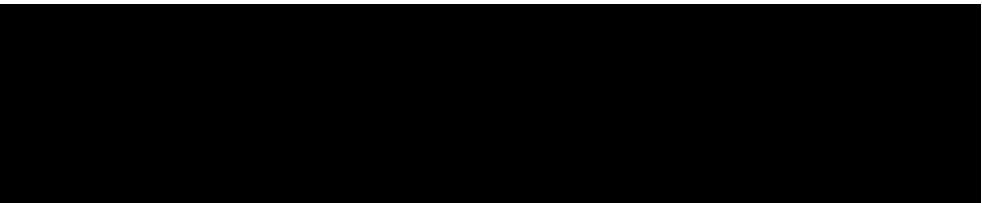
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/29/2017

1708524-05	W-101-B_081517_SED_01-03_R2	0.58	200	-	-	-	SOX → 100X ✓	
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Technician: Duyen Batch#: F708569 Date: 8/29/17

- EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: EPA 7474 Vial Type:  Glass  Teflon  
 Balance#: 1g Calibrated?  Yes  No Therm.#: N/A Calibrated?  Yes  No

\*Time in: N/A Actual Temp. (raw): N/A °C w/ CF: N/A °C  
 Time out: N/A Actual Temp. (raw): N/A °C w/ CF: N/A °C

\*Time in can't begin before target temperature is reached  
 Final vol.: 25 mL (LIMS ID: ROH20) Spike vol.: 40 µL (LIMS ID: 1701763)  
 Spike Witness: OU 8/29/17 (initial and date)

HCl LIMS ID: 1704640 Pipette SN#: OU07852 Calibration Date: 8/25/17  
 HNO<sub>3</sub> LIMS ID: 1704484 Pipette SN#: OU07693 Calibration Date: 8/28/17  
 70/30 LIMS ID: N/A Dispenser #: 09M45351 Calibrated?  Yes  No  
 Other Acid LIMS ID: 8/29/17 1705244 Dispenser #: 12H07691 18 yer  
 Glass Vial # J264713-3025 Boiling Chip lot # 1704424 \*Hotblock Position: N/A

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	Vial # <u>8/29/17</u>	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	CRM LIMS ID <input checked="" type="checkbox"/> NA
1	F708569 Blk1	0.5358	23 8	1708523-03	0.5358	
2	F708569 Blk2	0.5126	24 9	170852401 <u>8/29/17</u>	0.5983	
3	F708569 B51	0.5557	25 10	170852402 <u>8/29/17</u>	0.5597	
4	F708569 B501	0.5276	26 <u>8/29/17</u>	<del>1708524-03</del> <u>0.5789</u>	<del>0.5789</del>	Comments
5	1708151-27R21	0.5790	27 11	1708524-04	0.5715	F708569
6	1708151-28R21	0.5352	28 12	1708524-05	0.5800	source <u>MS1/MS2</u>
7	1708151-29R21	0.5400	29 13	1708524-03	0.5789	1708151-30R21
8	1708151-30R21	0.5530	30			
9	F708569-MS1	0.5321	31			F708569
10	F708569 MS01	0.5914	32			MS2 MS02
11	1708151-31R21	0.5539	33			1708523-01
12	1708151-32R21	0.5542	34			1708151-32R22
13	1708151-33R21	0.5604	35			
14	1708151-34R21	0.5570	36			F708569
15	1708151-35R21	0.5438	37			MS ALL Spike
16	1708151-36R21	0.5836	38			MS01 = seal
17	1708151-37R21	0.5417	39			1703591
18	1708156-08	0.5281	40			LIMS ID
19	1708523-01	0.5646	41			8/29/17 <u>no</u>
20	F708569-MS2	0.5685	42			
21	F708569-MS02	0.5719	43			
22	1708523-02	0.5349	44			



**PREPARATION BENCH SHEET**

F708527

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/25/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708527-BLK1	Blank	0.5	200					
F708527-BLK2	Blank	0.5	200					
F708527-BS1	Blank Spike	0.5	200	1701763	40			
F708527-BSD1	Blank Spike	0.5	200	1701763	40			
F708527-MS1	Matrix Spike [1708151-61] 0.5928	<del>0.5298</del>	200	1703591	50			
F708527-MS2	Matrix Spike [1708154-02]	0.562	200	1703591	50			
F708527-MSD1	Matrix Spike Dup [1708151-61]	0.5773	200	1703591	50			
F708527-MSD2	Matrix Spike Dup [1708154-02]	0.58	200	1703591	50			

Standard ID(s):  
 1701763 THg 1,000ng/mL Secondary Spiking Standard  
 1703591 THg 10,000ng/mL Primary Spiking Standard

Expiration:  
 22-Sep-17 00:00  
 14-Dec-17 00:00

<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1703182	25% Hydroxylamine-HCl working solution	24-Nov-17 00:00
1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
1704484	Fisher Nitric Acid, Tracemetal Grade	15-Mar-19 00:00
1704516	THg Washstation (0.5% BrCl)	24-Nov-17 00:00
1704517	THg Dilute 1% BrCl	18-Dec-17 00:00
1704640	Omnitrace Hydrochloric Acid	27-Jul-20 00:00
1704956	3% SnCl2 THg reductant	29-Jan-18 00:00
1705105	7474 Potassium Bromate/Bromide Reagent	29-Aug-17 00:00

**PREPARATION BENCH SHEET**

F708527

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: AFS - EPA 7474**

**Prepared: 8/25/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-58	W-MM-15_080317_SED_05-10	0.5809	200	-	-	-		
1708151-58RE1	W-MM-15_080317_SED_05-10	0.5809	200	-	-	-	Added 8/30/2017 by BC	Added 8/30/2017 by BC
1708151-59	W-MM-16_080317_SED_03-05	0.5474	200	-	-	-		
1708151-60	W-MM-16_080317_SED_05-10	0.5352	200	-	-	-		
1708151-60RE1	W-MM-16_080317_SED_05-10	0.5352	200	-	-	-	Added 8/30/2017 by BC	Added 8/30/2017 by BC
1708151-61	W-MM-20_080317_SED_03-05	0.5773	200	QC	-	-	MS/MSD	
1708151-62	W-MM-20_080317_SED_05-10	0.5714	200	-	-	-		
1708151-63	W-MM-21_080317_SED_03-05	0.585	200	-	-	-		
1708151-64	W-MM-21_080317_SED_05-10	0.5495	200	-	-	-		
1708154-01	W-21-UM-South_080117_SED_00-01	0.5467	200	-	-	-		
1708154-02	W-21-UM-South_080117_SED_01-03	0.5303	200	QC	-	-	MS/MSD	
1708154-03	W-63-Low_080117_SED_00-01_R1	0.5692	200	-	-	-		
1708154-04	W-63-Low_080117_SED_00-01_R2	0.5716	200	-	-	-		
1708154-05	W-63-Low_080117_SED_00-01_R3	0.5611	200	-	-	-		
1708154-06	W-63-Low_080117_SED_01-03	0.5628	200	-	-	-	Original jar broken, transferred sample	
1708154-07	W-21-UM-South_080317_SED_03-05	0.5948	200	-	-	-		
1708154-08	W-21-UM-South_080317_SED_05-10	0.581	200	-	-	-		
1708154-08RE1	W-21-UM-South_080317_SED_05-10	0.581	200	-	-	-	Added 8/30/2017 by BC	Added 8/30/2017 by BC
1708154-09	W-63-Low_080317_SED_03-05	0.5719	200	-	-	-		

PREPARATION BENCH SHEET

F708527

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/25/2017

1708154-10	W-63-Low_080317_SED_05-10	0.5527	200	-	-	-		
1708155-01	ES-02E_080117_SED_00-01	0.5262	200	-	-	-	Original jar broken, transferred sample	
1708155-02	ES-02E_080117_SED_01-03	0.5716	200	-	-	-		
1708155-03	OB-05_080117_SED_00-01	0.5276	200	-	-	-		
1708155-03RE1	OB-05_080117_SED_00-01	0.5276	200	-	-	-	Added 8/30/2017 by BC	Added 8/30/2017 by BC



PREPARATION BENCH SHEET

BC 8/30/17  
2600-3

F708527

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/25/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708527-BLK1	Blank	0.5	200					10x
F708527-BLK2	Blank	0.5	200					10x
F708527-BS1	Blank Spike	0.5	200	1701763	40			10x
F708527-BSD1	Blank Spike	0.5	200	1701763	40			10x
F708527-MS1	Matrix Spike [1708151-61] 0.5928	0.5298	200 <sup>PL 9/15/17</sup>	1703591	50			400x
F708527-MS2	Matrix Spike [1708154-02]	0.562	200	1703591	50			400x
F708527-MSD1	Matrix Spike Dup [1708151-61]	0.5773	200	1703591	50			400x
F708527-MSD2	Matrix Spike Dup [1708154-02]	0.58	200	1703591	50			400x

Standard ID(s):  
1701763 THg 1,000ng/mL Secondary Spiking Standard  
1703591 THg 10,000ng/mL Primary Spiking Standard

Expiration:  
22-Sep-17 00:00  
14-Dec-17 00:00

Reagent ID(s):  
1704424 Boiling Chips for AFS prep  
1704484 Fisher Nitric Acid, Tracemetal Grade  
1704640 Omnitrace Hydrochloric Acid  
1705105 7474 Potassium Bromate/Bromide Reagent

Expiration:  
21-Jan-18 00:00  
15-Mar-19 00:00  
27-Jul-20 00:00  
29-Aug-17 00:00

1704516  
1704517  
1704956  
1703182

PREPARATION BENCH SHEET

BC 8/30/17  
2600-3

F708527

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/25/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-58	W-MM-15_080317_SED_05-10	0.5809	200	-	-	-	50x → 10x <del>30x</del>	
1708151-59	W-MM-16_080317_SED_03-05	0.5474	200	-	-	-	50x	
1708151-60	W-MM-16_080317_SED_05-10	0.5352	200	-	-	-	50x → 10x	
1708151-61	W-MM-20_080317_SED_03-05	0.5773	200	QC	-	-	MS/MSD 50x	
1708151-62	W-MM-20_080317_SED_05-10	0.5714	200	-	-	-	50x	
1708151-63	W-MM-21_080317_SED_03-05	0.585	200	-	-	-	50x	
1708151-64	W-MM-21_080317_SED_05-10	0.5495	200	-	-	-	50x	
1708154-01	W-21-UM-South_080117_SED_00-01	0.5467	200	-	-	-	50x	
1708154-02	W-21-UM-South_080117_SED_01-03	0.5303	200	QC	-	-	MS/MSD 50x	
1708154-03	W-63-Low_080117_SED_00-01_R1	0.5692	200	-	-	-	50x	
1708154-04	W-63-Low_080117_SED_00-01_R2	0.5716	200	-	-	-	50x	
1708154-05	W-63-Low_080117_SED_00-01_R3	0.5611	200	-	-	-	50x	
1708154-06	W-63-Low_080117_SED_01-03	0.5628	200	-	-	-	Original jar broken, transferred sample 50x	
1708154-07	W-21-UM-South_080317_SED_03-05	0.5948	200	-	-	-	50x	
1708154-08	W-21-UM-South_080317_SED_05-10	0.581	200	-	-	-	50x → 10x	
1708154-09	W-63-Low_080317_SED_03-05	0.5719	200	-	-	-	50x	
1708154-10	W-63-Low_080317_SED_05-10	0.5527	200	-	-	-	50x	
1708155-01	ES-02E_080117_SED_00-01	0.5262	200	-	-	-	Original jar broken, transferred sample 50x	
1708155-02	ES-02E_080117_SED_01-03	0.5716	200	-	-	-	50x	

PREPARATION BENCH SHEET

BL 8/30/17  
2600-3

F708527

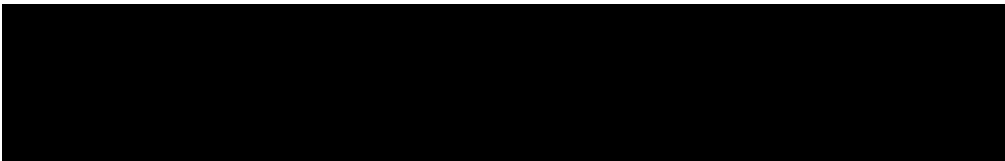
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EPA 7474

Prepared: 8/25/2017

1708155-03	OB-05_080117_SED_00-01	0.5276	200	-	-	-	SOX → SOX	
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Technician: Dwyer Batch#: F708527 Date: 8/25/17

- EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18:25°C for over four hours.

Other: EPA 7474 Vial Type:  Glass  Teflon  
 Balance#: 19 Calibrated?  Yes  No Therm.#: N/A Calibrated?  Yes  No

\*Time in: N/A Actual Temp. (raw): N/A °C w/ CF: N/A °C  
 Time out: N/A Actual Temp. (raw): N/A °C w/ CF: N/A °C


\*Time in can't begin before target temperature is reached  
 Final vol.: 25 mL (LIMS ID: R01420) Spike vol.: 40 µL (LIMS ID: 1701763)  
 Spike Witness: BC 8/25/17 (initial and date)

HCl LIMS ID: 1704640 Pipette SN#: MU11619 Calibration Date: 8/23/17  
 HNO<sub>3</sub> LIMS ID: 1704484 Pipette SN#: 0107693 Calibration Date: 8/25/17  
 70/30 LIMS ID: N/A Dispenser #: 09W45351 Calibrated?  Yes  No  
 Other Acid LIMS ID: 1705105 Dispenser #: 08Y2293  Yes  
 Glass Vial # J264713-302 Boiling Chip lot # 1704424 \*Hotblock Position: N/A

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	Vial # <i>8/25/17</i>	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	CRM LIMS ID <input type="checkbox"/> NA
1	F708527 Bpk1	0.5035	238	1708154-08	0.5810	
2	F708527 Bpk2	0.5122	249	1708154-09	0.5719	
3	F708527 BSI <sup>8/25/17</sup> Btk3	0.5604	2510	1708154-10	0.5527	
4	F708527 BSI	0.5337	2611	1708155-01	0.5262	Comments
5	1708151-58	0.5809	2712	1708155-02	0.5716	F708527
6	1708151-59	0.5474	2813	1708155-03	0.5276	source
7	1708151-60	0.5352	29			MS1, MS01
8	1708151-61	0.5773	30			1708151-61
9	F708527-MS1	0.5928	31			F708527
10	F708527-MS01	0.5773	32			MS2, MS02
11	1708151-62	0.5714	33			1708154-02
12	1708151-63	0.5850	34			
13	1708151-64	0.5495	35			All spike
14	1708154-01	0.5467	36			MS1 MS01 MS2
15	1708154-02	0.5303	37			10,000 µL MS02
16	F708527-MS2	0.5620	38			= source
17	F708527-MS02	0.5800	39			170359
18	1708154-03	0.5692	40			8/25/17
19	1708154-04	0.5716	41			
20	1708154-05	0.5611	42			
21	1708154-06	0.5628	43			
22	1708154-07	0.5948	44			

**Failing Data Report - 7H30017**

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
1708524-04	Hg-CVAFS-S-7474	2230	53.7				ng/g						FAIL-OVER	PASS	E -

 8/31/17  
Analyst Reviewed By Date

 9/5/17  
Peer Reviewed By Date



ANALYSIS SEQUENCE

QUALITY ASSURANCE

7H30018

PEER-REVIEWED



Instrument: Hg2600-3

Calibration ID: UNASSIGNED

INITIALS: *R 9/5/17* Analyzed: 8/30/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H30018-IBL1 ✓	QC	1			
7H30018-IBL2 ✓	QC	2			
7H30018-IBL3 ✓	QC	3			
7H30018-CAL1 ✓	QC	4	1704505		
7H30018-CAL2 ✓	QC	5	1704506		
7H30018-CAL3 ✓	QC	6	1704507		
7H30018-CAL4 ✓	QC	7	1704508		
7H30018-CAL5 ✓	QC	8	1704509		
7H30018-ICV1 ✓	QC	9	1703679		
7H30018-CCV1 ✓	QC	10	1703679		
7H30018-CCB1 ✓	QC	11			
7H30018-CCV2 ✓	QC	12	1703679		
7H30018-CCB2 ✓	QC	13			
7H30018-CCV3 ✓	QC	14	1703679		
7H30018-CCB3 ✓	QC	15			
7H30018-CCV4 ✓	QC	16	1703679		
7H30018-CCB4 ✓	QC	17			
7H30018-CCV5 ✓	QC	18	1703679		
7H30018-CCB5 ✓	QC	19			
7H30018-CCV6 ✓	QC	20	1703679		
7H30018-CCB6 ✓	QC	21			
F708583-BLK1 ✓	QC	22			
F708583-BLK2 ✓	QC	23			
F708583-BS1 ✓	QC	24			
1708773-01 ✓	Hg-CVAFS-S-Bomb	25			QG00L-1 - Prep 2.0-2.15 grams
F708583-DUP1 ✓	QC	26			
F708583-MS1 ✓	QC	27			
F708583-BS1 ✓	QC	28			
7H30018-CCV7 ✓	QC	29	1703679		
7H30018-CCB7 ✓	QC	30			

*Becing* 8/30/17  
 Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

*Becing* 8/30/17  
 Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

**PREPARATION BENCH SHEET**

F708583

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Soil/Sediment**

**Prepared using: Trace Metals - EFGS-141 Nitric Acid Bomb Digestion**

**Prepared: 8/29/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (ml)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708583-BLK1	Blank	0.5	50					
F708583-BLK2	Blank	0.5	50					
F708583-BS1	LCS	0.5	50	1704962	50			
F708583-BSD1	LCS Dup	0.5	50	1704962	50			
F708583-DUP1	Duplicate [1708773-01]	2.0117	50					
F708583-MS1	Matrix Spike [1708773-01]	2.0294	50	1704962	50			

Standard ID(s): 1704962  
Description: EFGS-PREP SPIKE1/2, plus Hg

Expiration: 23-Aug-17 00:00

<u>Reagent ID(s):</u> 1703182	<u>Description:</u> 25% Hydroxylamine-HCl working solution	<u>Expiration:</u> 24-Nov-17 00:00
1704516	THg Washstation (0.5% BrCl)	
1704517	THg Dilute 1% BrCl	18-Dec-17 00:00
1704641	Fisher Nitric Acid, Tracemetal Grade	15-Mar-19 00:00
1704956	3% SnCl2 THg reductant	29-Jan-18 00:00

PREPARATION BENCH SHEET

F708583

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Trace Metals - EFGS-141 Nitric Acid Bomb Digestion

Prepared: 8/29/2017

Lab Number	Sample ID	Initial (g)	Final (ml)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708773-01	740-2017-08280054 EUUSBO2-00093442	2.0965	50	-	See COC	-	MSM, Powder, Lot #1708709 QG00L-1	



Sample Preparation Review Checklist

Revision: 3  
Effective: Dec. 5, 2013

Technician/Date: MMP 8/29/2017  
Upload/Date: MMP 8/29/2017

Samples to lab: 1508

Batch #: F708583

Reviewer/Date: BC 9/5/17

**EFGS Preparation Method**

FGS-032 Co-APDC

FGS-052 Oven Digestion (Total Recoverable Metals)  ICPMS  AFS

FGS-058 Nitric Digestion  ICPMS  CVAFS

FGS-084 Modified Aqua Regia (Ag, Sb only)

FGS-108 Cr+6 Sediments/Tissues

FGS-109 RP

FGS-111 HF Bomb Digestion  ICPMS  CVAFS

FGS-141 Nitric Bomb Digestion  ICPMS  CVAFS

FGS-145 Oven Digestion (As, Se Speciation)  As  Se

FGS-146 Microwave Digestion (Nutraceuticals)

FGS-146 Microwave Digestion (CPSC-Metal)

FGS-146 Microwave Digestion (CPSC-Non-Metal/Paint)

FGS-149 Oven Digestion (Aqueous Nutraceuticals)

NA Other:

Initials	SOP Date	DOC Date
<u>MMP</u>	<u>2/24/2017</u>	<u>12/23/2016</u>
<u>LEL</u>	<u>2/22/2017</u>	<u>KJ0:1707210</u>

Comments: \_\_\_\_\_

Conditionally formatted training files located at:  
\\us34file\General and Admin\Quality Assurance\Training\Training Master  
(Contact QA for any problems regarding these training files.)

Analytes: Hg

1. Is any SOP/DOG expiring within one week of Submission Date?  YES  NO Reviewer initials: BC Tertiary Review: R

**Data cannot be reported without a current IDOC/CDOC. If YES, notify supervisor and technician immediately.**

2. Check prep method  YES  NO

(a) For Ceuticals: Is correct Hg code being used in LIMS?  ICPMS  CV-AFS  70:30  N/A

3. Compare sample ID with benchsheet  YES  NO

4. Verify time of submission? (if not met please explain in the comments)

(a) Oven bomb - digestion start time before 14:00?  YES  NO

(b) Microwave - submitted to the lab before 16:00?  YES  NO

5. Check for transcription errors from benchsheet

(a) Check and compare initial and final volumes  YES  N/A

(b) Check and compare mass  YES  N/A

(c) Has the number of pills been documented (benchsheet and LIMS)?  YES  N/A

(d) Benchsheet prep date MUST match actual prep date  YES  NO

6. Samples per Batch? **Check QC Requirements**  ≤ 20  ≤ 10

(a) PBs per batch?  3 PBs  2 PB  1 PB

(b) BS, BS/BSO or CRM in batch?  BS  BS/BSO  CRM

(c) MS/MSD in batch?  YES  N/A

(d) MD in batch?  YES  N/A

(e) Client specific WO #'s: \_\_\_\_\_  YES  N/A

(f) Are there any client specific requests and/or alterations?  YES  N/A

Document: \_\_\_\_\_

(g) Correct LIMS spike ID included for BS, BS/BSO and/or MS/MSD?  YES  N/A

(h) Correct 'source' designated for MD/MS/MSD?  YES  N/A

(i) For EFGS-filtered samples, was a filtration blank included?  YES  N/A

7. Are the samples appropriately spiked?  YES  NO

(a) Is the spike and amount used appropriate and entered into LIMS?  YES  N/A

(b) For IDOCs, was there a spike witness? (initials must be in logbook)  YES  N/A

(c) Spikes added:  YES  N/A

NOTE: Due to LIMS software constraints, new LIMS IDs need to be created when multiple/ supplemental spikes are used. Enter new LIMS ID below and use table to list all spikes included in it.

Spike LIMS ID: 1704962

Spike Name	LIMS ID	µL	Spike Name	LIMS ID	µL
<u>Pre spike 1</u>	<u>1703595</u>	<u>50</u>			
<u>Pre spike 2</u>	<u>1703596</u>	<u>50</u>			
<u>T Hg</u>	<u>1704961</u>	<u>50</u>			

2600-3  
BC 8/30/17

PREPARATION BENCH SHEET

F708583

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Trace Metals - EFGS-141 Nitric Acid Bomb Digestion

Prepared: 8/29/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (ml)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708583-BLK1	Blank	0.5	50					50X
F708583-BLK2	Blank	0.5	50					50X
F708583-BS1	LCS	0.5	50	1704962	50			50X 400X
F708583-BSD1	LCS Dup	0.5	50	1704962	50			400X
F708583-DUP1	Duplicate [1708773-01]	2.0117	50					50X
F708583-MS1	Matrix Spike [1708773-01]	2.0294	50	1704962	50			400X

Standard ID(s):  
1704962

Description:  
EFGS-PREPSPIKE1/2, plus Hg

Expiration:  
23-Aug-17 00:00

Reagent ID(s):  
1704641

Description:  
Fisher Nitric Acid, Tracemetal Grade

Expiration:  
15-Mar-19 00:00

1704516  
1704517  
1704956  
1703182

PREPARATION BENCH SHEET

F708583

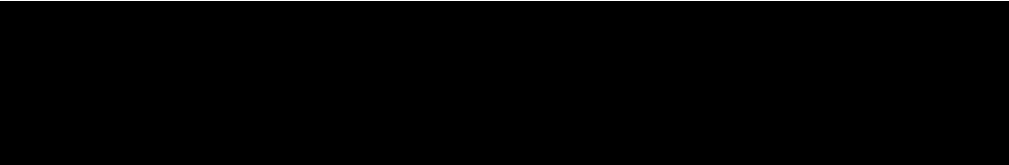
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Trace Metals - EFGS-141 Nitric Acid Bomb Digestion

Prepared: 8/29/2017

Lab Number	Sample ID	Initial (g)	Final (ml)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708773-01	740-2017-08280054 EUUSBO2-00093442	2.0965	50	-	See COC	-	MSM, Powder, Lot #1708709 QG00L-1	Sox



582,584 583

# Ceutral Digestions

Batch (TM / Hg) (circle one): F708582/583/584 Boiling Chip Lot # 0919120

Batch continued on next page?  Yes  No

1° Tech.: MMP 2° Tech.: VEL Date/Time In: 8/29/2017 1508

Date/Time Out: 8/30/2017 0908 by Timer

Spiked By: MMP Spike Witness (SW): VEL

Final Vol. (mL)/Initials/Date:  
50 MMP 8/30/2017

Balance ID/Cal. (Y/N): 20 / 8/29/2017

Vial Type:  50 mL Centrifuge Tube  Teflon

Digestion:  Oven ID: 0V1107  Other ID: \_\_\_\_\_

Analysis:  ICP-MS  CV-AFS  
 LC-ICP-MS  Other: \_\_\_\_\_

Thermometer ID: 131206130 Initial: Temp. (°C): 160 / 159.5 / 159.8  
target raw corrected

Final: Temp. (°C): 160 / TIMER  
target raw corrected

#	Bomb ID		Sample/Batch ID	Bottle ID	Sample Amount ( <input checked="" type="checkbox"/> g <input type="checkbox"/> mL)	Matrix (specify)	ID Check	Notes/Comments
	Lid	Bottom						
1	N/A	TH021	F708582-B111	N/A	0.6344	Boiling Chips (BC)	/	Shared in F708583
2	X119	N447	F708582-B112	N/A	0.7449	BC	/	Shared in F708583
3	N/A	X093	F708582-B51	N/A	0.7240	BC	/	Shared in F708583
4	TH022	X074	F708582-B51	N/A	0.5430	BC	/	Shared in F708583
5	N/A	X193	1708773-01	A	2.0965	Powder (P)	/	Shared in F708583 B51
6	N/A	N422	1708773-01	A	2.0117	P	/	Shared in F708583
7	X142	X025	1708773-01	A	2.0374	P	/	Shared in F708583
8	N/A	N445	1708773-01	A	2.0294	P	/	Shared in F708583
9	N/A	X151	1708739-04	A	0.5989	Plant material (PM)	/	Shared in F708583 MS1

Initials: BB

Spike Name	SW	Volume (µL)	LIMS ID	Pipette ID	Cal. Date
A Prep Spike 1	<input checked="" type="checkbox"/>	50	1703545	5120664	8/23/2017
B Prep Spike 2	<input checked="" type="checkbox"/>	50	1703546		
C T-Hy	<input checked="" type="checkbox"/>	50	1704961		
D	<input type="checkbox"/>				
E	<input type="checkbox"/>				

Preparation Method SOP: EFGS-141		
Reagent	Volume (mL)	LIMS ID
HNO <sub>3</sub>	7.5	1705051

1 Combined Spike ID: A-C = 1704962 ; Batches: F708582/583/584

2 Combined Spike ID: \_\_\_\_\_ ; Batches: \_\_\_\_\_

Batch continued on next page?  Yes  No

582, 583 583

# Ceutral Digestions

Batch (TM / Hg) (circle one): F708582/583/584 Boiling Chip Lot # 0919120

Batch continued on next page?  Yes  No

1° Tech.: MMP 2° Tech.: VEL Date/Time In: 8/29/2017 1508

Date/Time Out: 8/30/2017 0908 by Timer

Spiked By: MMP Spike Witness (SW): VEL

Final Vol. (mL)/Initials/Date:  
50 MMP 8/30/2017

Balance ID/Cal. (Y/N): 20 18/29/2017

Vial Type:  50 mL Centrifuge Tube  Teflon

Digestion:  Oven ID: 0V1107  Other ID: \_\_\_\_\_

Analysis:  ICP-MS  CV-AFS  
 LC-ICP-MS  Other: \_\_\_\_\_

Thermometer ID: 131206130 Initial: Temp. (°C): 160 / 159.5 / 159.8  
target raw corrected

Final: Temp. (°C): 160 / TIMER  
target raw corrected

#	Bomb ID		Sample/Batch ID	Bottle ID	Sample Amount ( <input checked="" type="checkbox"/> g <input type="checkbox"/> mL)	Matrix (specify)	ID Check	Notes/Comments
	Lid	Bottom						
1	N/A	TH021	F708582-B111	N/A	0.6344	Boiling chips (BC)	/	Shared in F708583
2	X119	N447	F708582-B112	N/A	0.7449	BC	/	Shared in F708583
3	N/A	X093	F708582-B51	N/A	0.7240	BC	/	Shared in F708583
4	TH022	X074	F708582-B51	N/A	0.5430	BC	/	Shared in F708583
5	N/A	X193	1708773-01	A	2.0965	Plant material (P)	/	Shared in F708583 B51
6	N/A	N422	1708773-01	A	2.0117	P	/	Shared in F708583
7	X142	X025	1708773-01	A	2.0374	P	/	Shared in F708583
8	N/A	N445	1708773-01	A	2.0294	P	/	Shared in F708583
9	N/A	X151	1708739-04	A	0.5989	Plant material (P)	/	Shared in F708583 MS1

Initials: BB

Spike Name	SW	Volume (µL)	LIMS ID	Pipette ID	Cal. Date
A Prep Spike 1	<input checked="" type="checkbox"/>	50	1703545	512064	8/23/2017
B Prep Spike 2	<input checked="" type="checkbox"/>	50	1703546		
C T-Hy	<input checked="" type="checkbox"/>	50	1704961		
D	<input type="checkbox"/>				
E	<input type="checkbox"/>				

Preparation Method SOP: EFGS-141		
Reagent	Volume (mL)	LIMS ID
HNO <sub>3</sub>	7.5	1705051

1 Combined Spike ID: A-C = 1704962 ; Batches: F708582/583/584

2 Combined Spike ID: \_\_\_\_\_ ; Batches: \_\_\_\_\_

Batch continued on next page?  Yes  No



# Ceutical Digestions

Batch TM / Hg (circle one) : F708584 Boiling Chip Lot # 0919120 Batch continued on next page?  Yes  No

1° Tech: \_\_\_\_\_ 2° Tech: \_\_\_\_\_ Date/Time In: \_\_\_\_\_ Date/Time Out: \_\_\_\_\_

Spiked By: \_\_\_\_\_ Spike Witness (SW): See Pg 66 Final Vol. (mL)/Initials/Date: \_\_\_\_\_

Balance ID/Cal.? (Y/N): \_\_\_\_\_ Vial Type:  50 mL Centrifuge Tube  Teflon

Digestion:  Oven ID: \_\_\_\_\_  Other ID: NMP 0/29/2017 Analysis:  ICP-MS  CV-AFS

Thermometer ID: \_\_\_\_\_ Initial: Temp. (°C): \_\_\_\_\_ target \_\_\_\_\_ raw \_\_\_\_\_ corrected \_\_\_\_\_

Final: Temp. (°C): \_\_\_\_\_ target \_\_\_\_\_ raw \_\_\_\_\_ corrected \_\_\_\_\_

#	Bomb ID		Sample/Batch ID	Bottle ID	Sample Amount ( <input checked="" type="checkbox"/> g <input type="checkbox"/> mL)	Matrix (specify)	ID Check	Notes/Comments
	Lid	Bottom						
1	T1023	N373	F760584-BLK1	N/A	0.9021	Boiling Chips (BC)	-	
2	T1060	N391	F708584-BLK2	N/A	0.5021	BC	-	Dry NMP 0/30/2017
3	X124	N384	F708584-BLK3	N/A	0.5225	Water (w)	-	Pre-Blank
4	X196	N484	F708584-BLK4	N/A	0.9960	W	-	Post-Blank
5	NA	X060	F708584-BSD1	A	0.7030	BC	-	F708583-BSD1
6	N363	X180	F708584-BSD1	A	0.7911	BC	-	Dry NMP 0/30/2017
7	X057	N412	1708771-01	B	0.8048	Plant Material (PM)	-	
8	NA	X071	1708771-01 DU91	B	0.8112	PM	-	
9	NA	X078	1708771-01 MS1	B	0.7038	PM	-	

See Pg 66 Initials: BB

	Spike Name	SW	Volume (µL)	LIMS ID	Pipette ID	Cal. Date	Preparation Method SOP: EFGS		
							Reagent	Volume (mL)	LIMS ID
A		<input type="checkbox"/>							
B		<input type="checkbox"/>							
C		<input type="checkbox"/>							
D		<input type="checkbox"/>							
E		<input type="checkbox"/>							

1 Combined Spike ID: \_\_\_\_\_ = \_\_\_\_\_ ; Batches: \_\_\_\_\_

2 Combined Spike ID: \_\_\_\_\_ = \_\_\_\_\_ ; Batches: \_\_\_\_\_

Batch continued on next page?  Yes  No

Failing Data Report - 7H30018

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
-----------	----------	--------	-----	------------	---------------	------------	-------	--------	----------	----------	-----	-----------	----------	---------	-----------

[Signature] [Signature] 8/31/17  
Analyst Reviewed By Date

[Signature] 9/5/17  
Peer Reviewed By Date

Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)

Analyst:	BC	Sequence(s) #:	7H30017, 7H30018
Reviewer:	<i>RL 9/5/17</i>	Dataset ID(s):	THg26003-170831-1
Date:	8/31/2017	WO (s) #:	Various
Batch #(s):	F708583, F708527		

• Select the correct preparation method.

Analyte	Prep Method	Matrix
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2985	FSTM Trap 70:30 Digest
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2807	Modified Cold Aqua Regia
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2821	Shared Bomb- HF/HNO3/HCl Digest
<input type="checkbox"/> THg	EFTM-T-TM-SOP2825	Nitric Acid Oven Bomb
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2795	70:30 Digest
<input type="checkbox"/> THg	EFAFS-T-AFS-SOP2800	KCl Trap BrCl Oxidation
<input type="checkbox"/> THg	EFTM-T-TM-SOP2837	Shared Nitric
<input type="checkbox"/> THg	EFSR-P-SP-SOP2796	BrCl Oxidation
<input type="checkbox"/> Hg0	NA	NA
<input type="checkbox"/> Inorg Hg	NA	NA

Analyst Initials: BC      Reviewer Initials: RL 9/5/17

- Compare SampleID with Benchsheet/Sequence/Raw Data (Have all samples been imported?)  YES  NO
- Check for transcription errors from Excel spreadsheet (or Prep Benchsheet)/Raw data  YES  NO 
  - On raw data (instrument print-out), does correct file (dataset ID#) name appear in description?  YES  NO 

Naming convention: THg26001-yymmdd-1 or THg26002-yymmdd-1
  - Check 5% of transcription from Instrument print-out and Excel file  YES  NO 

Compare the "Dilute" and "Peak (raw)" columns to "Dilution" and "Uncorrected Result" in Excel
  - Check standards & reagents in sequence & bench sheet for correct usage (expiries).  YES  NO  N/A
  - Check and compare masses (review prep benchsheet)  YES  NO  N/A
  - Check & compare initial & final volumes  YES  NO  N/A
  - Do aliquots and dilutions written on benchsheet match those in Excel?  YES  NO  N/A 

50 ml / aliquot = Excel dilution value
  - Is the sequence #, analyst, date, and instrument # on the QC page?  YES  NO
  - Is the analysis status correct? (analyzed/initial review/reviewed)  YES  NO
  - Original prep bench sheet added to data package?  YES  NO
  - Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)  YES  NO
- High QA? WO#(s)/Client(s): \_\_\_\_\_  YES  NO
- Client specific QC? (if Yes, refer to Project Notes/LIMS)  YES  NO 
  - Have the QC requirements been met for all WO#s?  YES  NO
  - Prep blanks corrections/assigned properly  YES  NO
- 20 or fewer samples in batch?  YES  NO 
  - 3 PBs, 1 LCS(or BS), 1 LCSD(or BSD), 1 DUP/Batch 1 MS/MSD (or AS/ASD)/10 samples?  YES  NO
  - 1 CCV and 1 CCB every 10 analytical runs?  YES  NO

**Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)**

<b>Analyst:</b> BC	<b>Sequence(s) #:</b> 7H30017, 7H30018
<b>Reviewer:</b> 0 <i>R 9/5/17</i>	<b>Dataset ID(s):</b> THg26003-170831-1
<b>Date:</b> 8/31/2017	<b>WO (s) #:</b> Various
<b>Batch #(s):</b> F708583, F708527	0

Analyst Initials BC                      Reviewer Initials R 9/5/17

- 5b. Has the B/C section data been uploaded?  YES     NO     N/A
- QA/QC Data Checked**
6. RSD CF (≤ 15%)  PASS     FAIL      
 Comments: \_\_\_\_\_
7. The calibration curve included a minimum of 5 Standards  YES     NO      
 Comments: \_\_\_\_\_
8. 1st Calibration Standard % Recoveries EPA 1631E (75-125%)  PASS     FAIL
9. ICV and CCV % Recoveries EPA 1631E (77-123%)  PASS     FAIL      
 Comments: \_\_\_\_\_
10. Do all calibration points pass acceptance criteria?  YES     NO      
 Comments: \_\_\_\_\_
11. Are qualifiers consistent with the data review flowcharts?  YES     NO     N/A      
 Comments: \_\_\_\_\_
12. Explain any items on the failed data report from Element   
 Comments: \_\_\_\_\_
13. Are the individual Preparation Blanks < PQL or <2.2xMDL for WI (refer to appropriate prep method PQL list)  PASS     FAIL      
 (a) If not < PQL or <2.2xMDL for WI, note which PB(s) are above control limit: \_\_\_\_\_  
 (b) Is the mean PB < PQL or <2.2xMDL for WI (for appropriate qualification)?  YES     NO      
 (c) Was a BrCl Blank analyzed for each preservation level?  YES     NO     N/A      
 (d) Are Preparation Blanks summarized on QC page?  YES     NO
14. Filtration Blank Prepared (if yes, use FB qualifier)  YES     NO      
 (a) Filtration Blank prep date same as associated samples' prep date  YES     NO     N/A      
 (b) Filtration Blank absolute value < PQL or <2.2xMDL for WI  YES     NO     N/A
15. IBLs (3 minimum) individually < 0.50 ng/L, mean < 0.25 ng/L and STD of 0.10 ng/L?  PASS     FAIL      
 Comments: \_\_\_\_\_
16. CCBs individually < 0.50 ng/L or 2.2 x MDL for WI?  PASS     FAIL      
 Comments: \_\_\_\_\_
17. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done)  YES     NO     N/A
18. Is the correct 'Source' designated for MD/MS/MSD?  YES     NO
19. For digested preps: was there a spike witness signature & date on the prep bench sheet?  YES     NO     N/A

**Peer Review Check List for THg by 2600 CV-AFS (SOP2822) 2016 Rev 1 (04/1/2016)**

<b>Analyst:</b> BC	<b>Sequence(s) #:</b> 7H30017, 7H30018
<b>Reviewer:</b> 0 <i>R 9/5/17</i>	<b>Dataset ID(s):</b> THg26003-170831-1
<b>Date:</b> 8/31/2017	<b>WO (s) #:</b> Various
<b>Batch #(s):</b> F708583, F708527	0

**Analyst Initials** BC                      **Reviewer Initials** R 9/5/17

- |  |  |                               |   |
|--|--|-------------------------------|---|
| 20. MS/MSD Spiked at least 1-5 X ambient or 5x MRL (whichever is higher) ?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |
| Comments: _____  |  |                               |   |
| 21. Are all samples within instrument calibration range? (or at minimum dilution size)   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL | <input checked="" type="checkbox"/>   |
| Comments: _____  |  |                               |   |
| 22. Are the samples run at the correct dilution level for the method?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/>   |
| Comments: <u>F708569 (wo 1708151 RES might not match, possible sample switch in original digest)</u>   |  |                               |   |
| 23. Dissolved < Total (if applicable)  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 24. Effluent < Influent (visually confirm if needed)   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 25. Are re-runs noted with reason?   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input type="checkbox"/>            |
| Comments: _____  |  |                               |   |
| 26. FSTM Datasets: Check to ensure the 'Response' & 'Initial Result' columns match in both the Excel dataset & LIMS for the FSTM A (in sequence) & B/C (in batch) traps? | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 27. Is the B trap <5% A Traps  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 28. Are spiked trap recoveries 75-125% of true value?  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 29. Have non-reportable samples been imported into LIMS and clicked to non-reportable?   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____  |  |                               |   |
| 30. Have re-extracts been created for non-reportable samples?  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 31. Are there any HIGH QA projects within the data? If so, place data package in QA office before scanning.  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 32. Does the data set need scanning?   | <input type="checkbox"/> YES             |                               | <input checked="" type="checkbox"/> N/A <input type="checkbox"/>            |
| 33. Does the dataset have an LOQ/LOQ or DOC?   | <input type="checkbox"/> YES             |                               | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 34. Water samples: has the preservation log been included in dataset for final volume verification?  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 35. Water samples-is the final volume correct in the sequence?   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO   | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |

**Files located at:** \\Cuprum\gen\_admin\Quality Assurance\Training Master\DOCs

- |   |                                  |   |                             |                                     |
|---|----------------------------------|---|-----------------------------|-------------------------------------|
| 36. Date of analyst IDOC/CDOC: _____ 1/11/2017 _____                | IDOC/CDOC within last 12 months? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 37. Date of analyst's SOP reading for method: _____ 5/20/2017 _____ | Current SOP revision read?       | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 38. Date of LOD: _____  | LOD within last 3 months?        | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 39. Date of LOQ: _____  | LOQ within last 3 months?        | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |

**Data can not be reported without a current IDOC/CDOC, LOD or LOQ.**





Frontier Global Sciences

### MHg27001-170830-1

#### Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: August 30, 2017

Instrument #: Hg2700-1

LIMS Sequence #: 7H31009

Analyst: DM2

Units ng/L

#### Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	25.60 units	512.04	25.60 units	512.04	97.6 %Rec
SEQ-CAL2	1	0.20 ng/L	98.24 units	491.20	98.24 units	491.20	93.7 %Rec
SEQ-CAL3	1	1.00 ng/L	540.77 units	540.77	540.77 units	540.77	103.1 %Rec
SEQ-CAL4	1	2.00 ng/L	1065.47 units	532.74	1065.47 units	532.74	101.6 %Rec
SEQ-CAL5	1	4.00 ng/L	2180.62 units	545.15	2180.62 units	545.15	104.0 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

**Corr. Mean RF**    **Corr. St Dev RF**    **Corr. RSD CF**    **Uncorr. Mean RF**  
 524.38            +/- 22.49            4.3% RSD            524.38

#### Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.00 units		0.00 ng/L	#VALUE!

#### Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.094 ng/L	±0.127
BLK	2	3	1.994 ng/L	±1.586
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

QUALITY ASSURANCE  
PEER-REVIEWED

INITIALS:   A  9/4/17

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB					Comments
		Type	LabNumber							Correction?	RESP	InitialResult	FinalResult	InitialUnits	
Hg2700-1	DM2	CAL	SEQ-IBL1	1	8/30/17 9:11	25469-1.RAW	9:11:02	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL1	1	8/30/17 9:21	25470-1.RAW	9:21:33	25.60			25.6	0.049	0.049	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL2	1	8/30/17 9:32	25471-1.RAW	9:32:04	98.24			98.2	0.187	0.187	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL3	1	8/30/17 9:42	25472-1.RAW	9:42:35	540.77			540.8	1.031	1.031	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL4	1	8/30/17 9:53	25473-1.RAW	9:53:05	1065.47			1065.5	2.032	2.032	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL5	1	8/30/17 10:03	25474-1.RAW	10:03:36	2180.62			2180.6	4.158	4.158	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICV1	1	8/30/17 10:14	25475-1.RAW	10:14:07	270.82			270.8	0.516	0.516	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICB1	1	8/30/17 10:24	25476-1.RAW	10:24:38	2.73			2.7	0.005	0.005	ng/L	
Hg2700-1	DM2	BLK	F708524-BLK1	500	8/30/17 10:35	25477-1.RAW	10:35:08	0.00	1		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708524-BLK2	500	8/30/17 10:45	25478-1.RAW	10:45:39	0.25	1		0.3	0.000	0.239	ng/L	
Hg2700-1	DM2	BLK	F708524-BLK3	500	8/30/17 10:56	25479-1.RAW	10:56:10	0.05	1		0.0	0.000	0.044	ng/L	
Hg2700-1	DM2	SAM	*F708524-BLK4	500	8/30/17 11:06	25480-1.RAW	11:06:40	0.00	1		0.0	0.000	-0.094	ng/L	
Hg2700-1	DM2	SAM	*F708524-BLK5	500	8/30/17 11:17	25481-1.RAW	11:17:10	0.00	1		0.0	0.000	-0.094	ng/L	
Hg2700-1	DM2	SAM	*F708524-BLK6	500	8/30/17 11:27	25482-1.RAW	11:27:40	0.00	1		0.0	0.000	-0.094	ng/L	
Hg2700-1	DM2	SAM	*F708524-BLK7	500	8/30/17 11:38	25483-1.RAW	11:38:11	0.00	1		0.0	0.000	-0.094	ng/L	
Hg2700-1	DM2	SAM	F708524-BS1	1000	8/30/17 11:48	25484-1.RAW	11:48:41	740.56	1		740.6	1.412	1412.161	ng/L	
Hg2700-1	DM2	SAM	F708524-BSD1	1000	8/30/17 11:59	25485-1.RAW	11:59:12	634.82	1		634.8	1.211	1210.510	ng/L	
Hg2700-1	DM2	SAM	F708524-DUP1	500	8/30/17 12:09	25486-1.RAW	12:09:43	80.48	1		80.5	0.153	76.647	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV1	1	8/30/17 12:20	25487-1.RAW	12:20:14	237.76			237.8	0.453	0.453	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB1	1	8/30/17 12:30	25488-1.RAW	12:30:44	1.16			1.2	0.002	0.002	ng/L	
Hg2700-1	DM2	SAM	F708524-MS1	500	8/30/17 12:41	25489-1.RAW	12:41:15	616.78	1		616.8	1.176	588.008	ng/L	
Hg2700-1	DM2	SAM	F708524-MSD1	500	8/30/17 12:51	25490-1.RAW	12:51:46	436.95	1		436.9	0.833	416.539	ng/L	
Hg2700-1	DM2	SAM	F708524-MS2	2500	8/30/17 13:02	25491-1.RAW	13:02:16	235.88	1		235.9	0.450	1124.498	ng/L	
Hg2700-1	DM2	SAM	F708524-MSD2	2500	8/30/17 13:12	25492-1.RAW	13:12:47	276.47	1		276.5	0.527	1317.967	ng/L	
Hg2700-1	DM2	SAM	1708155-06	500	8/30/17 13:23	25493-1.RAW	13:23:18	68.71	1		68.7	0.131	65.425	ng/L	
Hg2700-1	DM2	SAM	1708523-01	500	8/30/17 13:33	25494-1.RAW	13:33:48	100.96	1		101.0	0.192	96.169	ng/L	
Hg2700-1	DM2	SAM	1708523-02	500	8/30/17 13:44	25495-1.RAW	13:44:19	106.36	1		106.4	0.203	101.321	ng/L	
Hg2700-1	DM2	SAM	1708524-01	500	8/30/17 13:54	25496-1.RAW	13:54:50	78.13	1		78.1	0.149	74.405	ng/L	
Hg2700-1	DM2	SAM	1708524-02	500	8/30/17 14:05	25497-1.RAW	14:05:20	67.03	1		67.0	0.128	63.818	ng/L	
Hg2700-1	DM2	SAM	1708524-03	500	8/30/17 14:15	25498-1.RAW	14:15:51	23.41	1		23.4	0.044	22.225	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV2	1	8/30/17 14:26	25499-1.RAW	14:26:22	224.95			224.9	0.429	0.429	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB2	1	8/30/17 14:36	25500-1.RAW	14:36:52	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708524-04	500	8/30/17 14:47	25501-1.RAW	14:47:23	54.48	1		54.5	0.104	51.857	ng/L	
Hg2700-1	DM2	SAM	1708524-05	500	8/30/17 14:57	25502-1.RAW	14:57:54	47.77	1		47.8	0.091	45.458	ng/L	
Hg2700-1	DM2	SAM	1708524-06	500	8/30/17 15:08	25503-1.RAW	15:08:24	39.01	1		39.0	0.074	37.099	ng/L	
Hg2700-1	DM2	SAM	1708524-07	500	8/30/17 15:18	25504-1.RAW	15:18:55	307.31	1		307.3	0.586	292.924	ng/L	
Hg2700-1	DM2	SAM	1708524-08	500	8/30/17 15:29	25505-1.RAW	15:29:26	214.49	1		214.5	0.409	204.424	ng/L	
Hg2700-1	DM2	SAM	1708524-09	500	8/30/17 15:39	25506-1.RAW	15:39:56	115.54	1		115.5	0.220	110.076	ng/L	
Hg2700-1	DM2	SAM	1708524-10	500	8/30/17 15:50	25507-1.RAW	15:50:27	61.86	1		61.9	0.118	58.890	ng/L	
Hg2700-1	DM2	SAM	1708630-05	500	8/30/17 16:00	25508-1.RAW	16:00:58	36.39	1		36.4	0.069	34.605	ng/L	
Hg2700-1	DM2	SAM	1708633-01	2500	8/30/17 16:11	25509-1.RAW	16:11:28	638.22	1		638.2	1.217	3042.660	ng/L	
Hg2700-1	DM2	SAM	1708633-02	2500	8/30/17 16:21	25510-1.RAW	16:21:59	729.19	1		729.2	1.391	3476.374	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV3	1	8/30/17 16:32	25511-1.RAW	16:32:30	248.18			248.2	0.473	0.473	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB3	1	8/30/17 16:43	25512-1.RAW	16:43:00	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708633-03	2500	8/30/17 16:53	25513-1.RAW	16:53:31	1190.61	1		1190.6	2.270	5676.210	ng/L	
Hg2700-1	DM2	SAM	1708633-04	2500	8/30/17 17:04	25514-1.RAW	17:04:02	229.50	1		229.5	0.438	1094.073	ng/L	



Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber							Correction?	RESP				
Hg2700-1	DM2	SAM	1708633-05	2500	8/30/17 17:14	25515-1.RAW	17:14:32	306.60	1		306.6	0.585	1461.622	ng/L	
Hg2700-1	DM2	SAM	1708633-06	2500	8/30/17 17:25	25516-1.RAW	17:25:03	247.37	1		247.4	0.472	1179.240	ng/L	
Hg2700-1	DM2	SAM	F708524-BS2	1000	8/30/17 17:35	25517-1.RAW	17:35:34	1066.37	1		1066.4	2.033	2033.499	ng/L	
Hg2700-1	DM2	SAM	F708524-BSD2	1000	8/30/17 17:46	25518-1.RAW	17:46:04	1025.79	1		1025.8	1.956	1956.113	ng/L	
Hg2700-1	DM2	BLK	F708549-BLK1	500	8/30/17 17:56	25519-1.RAW	17:56:35	4.01	2		4.0	0.008	3.822	ng/L	
Hg2700-1	DM2	BLK	F708549-BLK2	500	8/30/17 18:07	25520-1.RAW	18:07:06	1.03	2		1.0	0.002	0.979	ng/L	
Hg2700-1	DM2	BLK	F708549-BLK3	500	8/30/17 18:17	25521-1.RAW	18:17:36	1.24	2		1.2	0.002	1.181	ng/L	
Hg2700-1	DM2	SAM	F708549-BS1	1000	8/30/17 18:28	25522-1.RAW	18:28:07	792.29	2		792.3	1.509	1508.922	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV4	1	8/30/17 18:38	25523-1.RAW	18:38:38	251.38	1		251.4	0.479	0.479	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB4	1	8/30/17 18:49	25524-1.RAW	18:49:08	2.24	1		2.2	0.004	0.004	ng/L	
Hg2700-1	DM2	SAM	F708549-BSD1	1000	8/30/17 18:59	25525-1.RAW	18:59:39	702.40	2		702.4	1.337	1337.496	ng/L	
Hg2700-1	DM2	SAM	F708549-DUP1	500	8/30/17 19:10	25526-1.RAW	19:10:10	63.97	2		64.0	0.118	59.006	ng/L	
Hg2700-1	DM2	SAM	F708549-MS1	500	8/30/17 19:20	25527-1.RAW	19:20:41	459.08	2		459.1	0.871	435.744	ng/L	
Hg2700-1	DM2	SAM	F708549-MSD1	500	8/30/17 19:31	25528-1.RAW	19:31:11	353.82	2		353.8	0.671	335.375	ng/L	
Hg2700-1	DM2	SAM	F708549-MS2	500	8/30/17 19:41	25529-1.RAW	19:41:42	600.00	2		600.0	1.140	570.114	ng/L	
Hg2700-1	DM2	SAM	F708549-MSD2	500	8/30/17 19:52	25530-1.RAW	19:52:13	647.41	2		647.4	1.231	615.316	ng/L	
Hg2700-1	DM2	SAM	1708151-04RE1	500	8/30/17 20:02	25531-1.RAW	20:02:43	71.86	2		71.9	0.133	66.527	ng/L	
Hg2700-1	DM2	SAM	1708151-05RE1	500	8/30/17 20:13	25532-1.RAW	20:13:14	87.30	2		87.3	0.162	81.245	ng/L	
Hg2700-1	DM2	SAM	1708151-06RE1	500	8/30/17 20:23	25533-1.RAW	20:23:46	84.98	2		85.0	0.158	79.033	ng/L	
Hg2700-1	DM2	SAM	1708151-07RE1	500	8/30/17 20:34	25534-1.RAW	20:34:17	22.92	2		22.9	0.040	19.859	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV5	1	8/30/17 20:44	25535-1.RAW	20:44:47	251.17	1		251.2	0.479	0.479	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB5	1	8/30/17 20:55	25536-1.RAW	20:55:18	2.13	1		2.1	0.004	0.004	ng/L	
Hg2700-1	DM2	SAM	1708151-08RE1	500	8/30/17 21:05	25537-1.RAW	21:05:49	17.86	2		17.9	0.030	15.032	ng/L	
Hg2700-1	DM2	SAM	1708151-09RE1	500	8/30/17 21:16	25538-1.RAW	21:16:19	117.80	2		117.8	0.221	110.329	ng/L	
Hg2700-1	DM2	SAM	1708151-10RE1	500	8/30/17 21:26	25539-1.RAW	21:26:50	55.63	2		55.6	0.102	51.046	ng/L	
Hg2700-1	DM2	SAM	1708151-11RE1	500	8/30/17 21:37	25540-1.RAW	21:37:21	65.13	2		65.1	0.120	60.109	ng/L	
Hg2700-1	DM2	SAM	1708151-12RE1	500	8/30/17 21:47	25541-1.RAW	21:47:51	40.42	2		40.4	0.073	36.550	ng/L	
Hg2700-1	DM2	SAM	1708151-13RE1	500	8/30/17 21:58	25542-1.RAW	21:58:22	85.83	2		85.8	0.160	79.842	ng/L	
Hg2700-1	DM2	SAM	1708151-14RE1	500	8/30/17 22:08	25543-1.RAW	22:08:53	104.03	2		104.0	0.194	97.200	ng/L	
Hg2700-1	DM2	SAM	1708151-15RE1	500	8/30/17 22:19	25544-1.RAW	22:19:23	2.85	2		2.9	0.001	0.726	ng/L	
Hg2700-1	DM2	SAM	1708151-16RE1	500	8/30/17 22:29	25545-1.RAW	22:29:54	10.95	2		10.9	0.017	8.442	ng/L	
Hg2700-1	DM2	SAM	1708151-17RE1	500	8/30/17 22:40	25546-1.RAW	22:40:25	7.43	2		7.4	0.010	5.090	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV6	1	8/30/17 22:50	25547-1.RAW	22:50:55	231.45	1		231.4	0.441	0.441	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB6	1	8/30/17 23:01	25548-1.RAW	23:01:26	0.00	1		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708151-18RE1	500	8/30/17 23:11	25549-1.RAW	23:11:57	8.83	2		8.8	0.013	6.424	ng/L	
Hg2700-1	DM2	SAM	1708151-19RE1	500	8/30/17 23:22	25550-1.RAW	23:22:27	9.94	2		9.9	0.015	7.480	ng/L	
Hg2700-1	DM2	SAM	1708151-20RE1	500	8/30/17 23:32	25551-1.RAW	23:32:58	58.76	2		58.8	0.108	54.036	ng/L	
Hg2700-1	DM2	SAM	1708151-21RE1	500	8/30/17 23:43	25552-1.RAW	23:43:29	50.01	2		50.0	0.091	45.694	ng/L	
Hg2700-1	DM2	SAM	1708151-22RE1	500	8/30/17 23:53	25553-1.RAW	23:53:59	30.29	2		30.3	0.054	26.887	ng/L	
Hg2700-1	DM2	SAM	1708151-23RE1	500	8/30/17 0:04	25554-1.RAW	0:04:30	24.34	2		24.3	0.042	21.218	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV7	1	8/30/17 0:15	25555-1.RAW	0:15:01	213.97	1		214.0	0.408	0.408	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB7	1	8/30/17 0:25	25556-1.RAW	0:25:31	0.00	1		0.0	0.000	0.000	ng/L	

## ANALYSIS SEQUENCE

7H31009

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/30/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7H31009-IBL1 ✓	QC	1			
7H31009-CAL1 ✓	QC	2	1704180		
7H31009-CAL2 ✓	QC	3	1704181		
7H31009-CAL3 ✓	QC	4	1704182		
7H31009-CAL4 ✓	QC	5	1704183		
7H31009-CAL5 ✓	QC	6	1704184		
7H31009-ICV1 ✓	QC	7	1705084		
7H31009-ICB1 ✓	QC	8			
F708524-BLK1 ✓	QC	9			
F708524-BLK2 ✓	QC	10			
F708524-BLK3 ✓	QC	11			
F708524-BLK4 ✓	QC	12			
F708524-BLK5 ✓	QC	13			
F708524-BLK6 ✓	QC	14			
F708524-BLK7 ✓	QC	15			
F708524-BS1 ✓	QC	16			
F708524-BSD1 ✓	QC	17			
F708524-DUP1 ✓	QC	18			
7H31009-CCV1 ✓	QC	19	1705084		
7H31009-CCB1 ✓	QC	20			
F708524-MS1 ✓	QC	21			
F708524-MSD1 ✓	QC	22			
F708524-MS2 ✓	QC	23			
F708524-MSD2 ✓	QC	24			
1708155-06 ✓	MHg-CVAFS-S-KOH	25			
1708155-06 ✓	MHg-CVAFS-T-KOH	26			BatchQC
1708523-01 ✓	MHg-CVAFS-S-KOH	27			
1708523-02 ✓	MHg-CVAFS-S-KOH	28			
1708524-01 ✓	MHg-CVAFS-S-KOH	29			
1708524-02 ✓	MHg-CVAFS-S-KOH	30			
1708524-03 ✓	MHg-CVAFS-S-KOH	31			
7H31009-CCV2 ✓	QC	32	1705084		
7H31009-CCB2 ✓	QC	33			
1708524-04 ✓	MHg-CVAFS-S-KOH	34			
1708524-05 ✓	MHg-CVAFS-S-KOH	35			

Due Date: 9/5/2017

## ANALYSIS SEQUENCE

7H31009

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/30/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708524-06 ✓	MHg-CVAFS-S-KOH	36			
1708524-07 ✓	MHg-CVAFS-S-KOH	37			
1708524-08 ✓	MHg-CVAFS-S-KOH	38			
1708524-09 ✓	MHg-CVAFS-S-KOH	39			
1708524-10 ✓	MHg-CVAFS-S-KOH	40			
1708630-05 ✓	MHg-CVAFS-S-KOH	41			BatchQC
1708630-05 ✓	MHg-CVAFS-T-KOH	42			
1708633-01 ✓	MHg-CVAFS-T-KOH	43			
1708633-02 ✓	MHg-CVAFS-T-KOH	44			
7H31009-CCV3 ✓	QC	45	1705084 ✓		
7H31009-CCB3 ✓	QC	46			
1708633-03 ✓	MHg-CVAFS-T-KOH	47			
1708633-04 ✓	MHg-CVAFS-T-KOH	48			
1708633-05 ✓	MHg-CVAFS-T-KOH	49			
1708633-06 ✓	MHg-CVAFS-T-KOH	50			
F708524-BS2 ✓	QC	51			
F708524-BSD2 ✓	QC	52			
F708549-BLK1 ✓	QC	53			
F708549-BLK2 ✓	QC	54			
F708549-BLK3 ✓	QC	55			
F708549-BS1 ✓	QC	56			
7H31009-CCV4 ✓	QC	57	1705084 ✓		
7H31009-CCB4 ✓	QC	58			
F708549-BSD1 ✓	QC	59			
F708549-DUP1 ✓	QC	60			
F708549-MS1 ✓	QC	61			
F708549-MSD1 ✓	QC	62			
F708549-MS2 ✓	QC	63			
F708549-MSD2 ✓	QC	64			
1708151-04RE1 ✓	MHg-CVAFS-S-KOH	65			Re-extract added 8/25/2017 by DM2
1708151-05RE1 ✓	MHg-CVAFS-S-KOH	66			Re-extract added 8/25/2017 by DM2
1708151-06RE1 ✓	MHg-CVAFS-S-KOH	67			Re-extract added 8/25/2017 by DM2
1708151-07RE1 ✓	MHg-CVAFS-S-KOH	68			Re-extract added 8/25/2017 by CF
7H31009-CCV5 ✓	QC	69	1705084 ✓		
7H31009-CCB5 ✓	QC	70			

Due Date: 9/5/2017

## ANALYSIS SEQUENCE

7H31009

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 8/30/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708151-08RE1 ✓	MHg-CVAFS-S-KOH	71			Re-extract added 8/25/2017 by CF
1708151-09RE1 ✓	MHg-CVAFS-S-KOH	72			Re-extract added 8/25/2017 by DM2
1708151-10RE1 ✓	MHg-CVAFS-S-KOH	73			Re-extract added 8/25/2017 by DM2
1708151-11RE1 ✓	MHg-CVAFS-S-KOH	74			Re-extract added 8/25/2017 by DM2
1708151-12RE1 ✓	MHg-CVAFS-S-KOH	75			Re-extract added 8/25/2017 by DM2
1708151-13RE1 ✓	MHg-CVAFS-S-KOH	76			Re-extract added 8/25/2017 by DM2
1708151-14RE1 ✓	MHg-CVAFS-S-KOH	77			Re-extract added 8/25/2017 by DM2
1708151-15RE1 ✓	MHg-CVAFS-S-KOH	78			Re-extract added 8/25/2017 by DM2
1708151-16RE1 ✓	MHg-CVAFS-S-KOH	79			Re-extract added 8/25/2017 by DM2
1708151-17RE1 ✓	MHg-CVAFS-S-KOH	80			Re-extract added 8/25/2017 by DM2
7H31009-CCV6 ✓	QC	81	1705084		
7H31009-CCB6 ✓	QC	82			
1708151-18RE1 ✓	MHg-CVAFS-S-KOH	83			Re-extract added 8/25/2017 by DM2
1708151-19RE1 ✓	MHg-CVAFS-S-KOH	84			Re-extract added 8/25/2017 by DM2
1708151-20RE1 ✓	MHg-CVAFS-S-KOH	85			Re-extract added 8/25/2017 by DM2
1708151-21RE1 ✓	MHg-CVAFS-S-KOH	86			Re-extract added 8/25/2017 by DM2
1708151-22RE1 ✓	MHg-CVAFS-S-KOH	87			Re-extract added 8/25/2017 by DM2
1708151-23RE1 ✓	MHg-CVAFS-S-KOH	88			Re-extract added 8/25/2017 by DM2
7H31009-CCV7 ✓	QC	89	1705084		
7H31009-CCB7 ✓	QC	90			

Don Moxem 8/30/17  
 Samples Loaded By Date

Don Moxem 8/31/17  
 Data Processed By Date

Due Date: 9/5/2017

**PREPARATION BENCH SHEET**

F708524

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/24/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708524-BLK1	Blank	0.25	20					
F708524-BLK2	Blank	0.25	20					
F708524-BLK3	Blank	0.25	20					
F708524-BLK4	Blank	0.254	20					Pre-Homogenization Blank 1708630
F708524-BLK5	Blank	0.269	20					Post-Homogenization Blank 1708630
F708524-BLK6	Blank	0.299	20					Pre-Homogenization Blank 1708633
F708524-BLK7	Blank	0.28	20					Post-Homogenization Blank 1708633
F708524-BS1	LCS	0.1312	20	1703305	131.2			
F708524-BS2	LCS	0.1312	20	1703305	131.2			
F708524-BSD1	LCS Dup	0.1339	20	1703305	133.9			
F708524-BSD2	LCS Dup	0.1339	20	1703305	133.9			
F708524-DUP1	Duplicate [1708155-06]	0.302	20					
F708524-MS1	Matrix Spike [1708155-06]	0.303	20	1605978	100			
F708524-MS2	Matrix Spike [1708630-05]	0.253	20	1605978	100			
F708524-MSD1	Matrix Spike Dup [1708155-06]	0.29	20	1605978	100			
F708524-MSD2	Matrix Spike Dup [1708630-05]	0.297	20	1605978	100			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1605978	MHg New Primary 100 ng/mL spike	15-Oct-17 00:00	1606119	Methanol, HPLC Grade	17-Oct-19 00:00
1703305	DORM-4	29-May-20 00:00	1702551	Boiling Chips for AFS prep	31-Dec-17 00:00
		29-May-20 00:00	1704399	Ethylating Agent (For Methyl Mercury Analysis)	16-Jan-18 00:00
			1704707	Acetate Buffer	29-Jan-18 00:00
			1704725	25% KOH/Methanol	30-Jan-18 00:00
			1705052		18-Feb-18 00:00

**PREPARATION BENCH SHEET**

F708524

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/24/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708155-06	OR-02-03_080117_SED_01-03	0.277	20	-	-	-	Original jar broken, transferred sample	
1708523-01	ES-13_081517_Sed_00-01	0.28	20	-	-	-		
1708523-02	ES-13_081517_Sed_01-03	0.263	20	-	-	-		
1708524-01	W-101-A_081517_SED_00-01	0.259	20	-	-	-		
1708524-02	W-101-A_081517_SED_01-03	0.261	20	-	-	-		
1708524-03	W-101-B_081517_SED_00-01	0.311	20	-	-	-		
1708524-04	W-101-B_081517_SED_01-03_R1	0.282	20	-	-	-		
1708524-05	W-101-B_081517_SED_01-03_R2	0.259	20	-	-	-		
1708524-06	W-101-B_081517_SED_01-03_R3	0.268	20	-	-	-		
1708524-07	W-102-A_081517_SED_00-01	0.261	20	-	-	-		
1708524-08	W-102-A_081517_SED_01-03	0.264	20	-	-	-		
1708524-09	W-102-B_081517_SED_00-01	0.29	20	-	-	-		
1708524-10	W-102-B_081517_SED_01-03	0.263	20	-	-	-		
1708630-05	S-170807-01217 25538 Shrimp 31-40 Ore Cal-MRG	0.299	20	-	-	-	BatchQC	Added for BatchQC in: F708524
1708633-01	S-170717-00791 458141 Chilean Sea Bass Tai Foong	0.278	20	-	-	-		
1708633-02	S-170717-00796 458141 Chilean Sea Bass Tai Foong	0.293	20	-	-	-		
1708633-03	S-170717-00793 458141 Chilean Sea Bass Mazzetta	0.287	20	-	-	-		
1708633-04	S-170717-00794 458141 Chilean Sea Bass Mazzetta	0.251	20	-	-	-		
1708633-05	S-170717-00795 458141 Chilean Sea Bass Mazzetta	0.264	20	-	-	-		

PREPARATION BENCH SHEET

F708524

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/24/2017

1708633-06	S-170705-00193 417382 Halibut S.M Products	0.252	20	-	-	-		
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PREPARATION BENCH SHEET

2700-1  
8/30/17 DM

F708524

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/24/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708524-BLK1	Blank	0.25	20					50X
F708524-BLK2	Blank	0.25	20					50X
F708524-BLK3	Blank	0.25	20					50X
F708524-BLK4	Blank	0.25	20					Pre-Homogenization Blank 1708630 50X
F708524-BLK5	Blank	0.25	20					Post-Homogenization Blank 1708630 50X
F708524-BLK6	Blank	0.25	20					Pre-Homogenization Blank 1708633 50X
F708524-BLK7	Blank	0.25	20					Post-Homogenization Blank 1708633 50X
F708524-BS1	LCS	0.25	20					50X 1000X R 9/1/17
F708524-BSD1	LCS Dup	0.25	20					50X 1000X
F708524-DUP1	Duplicate [1708155-06]	0.25	20					50X
F708524-MS1	Matrix Spike [1708155-06]	0.25	20	1605978	100			50X
F708524-MS2	Matrix Spike [1708630-05]	0.25	20	1605978	100			250X
F708524-MSD1	Matrix Spike Dup [1708155-06]	0.25	20	1605978	100			50X
F708524-MSD2	Matrix Spike Dup [1708630-05]	0.25	20	1605978	100			250X

Standard ID(s): 1605978  
Description: MHg New Primary 100 ng/mL spike

Expiration: 15-Oct-17 00:00

BS2, BSD2 re. run of BS1, BSD1

1704707  
170433A 170430A



PREPARATION BENCH SHEET

2700-1  
8/30/17 DM

F708524

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/24/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708155-06	OR-02-03_080117_SED_01-03	0.25	20	-	-	-	Original jar broken, transferred sample	500X
1708523-01	ES-13_081517_Sed_00-01	0.25	20	-	-	-		500X
1708523-02	ES-13_081517_Sed_01-03	0.25	20	-	-	-		500X
1708524-01	W-101-A_081517_SED_00-01	0.25	20	-	-	-		500X
1708524-02	W-101-A_081517_SED_01-03	0.25	20	-	-	-		500X
1708524-03	W-101-B_081517_SED_00-01	0.25	20	-	-	-		500X
1708524-04	W-101-B_081517_SED_01-03_R1	0.25	20	-	-	-		500X
1708524-05	W-101-B_081517_SED_01-03_R2	0.25	20	-	-	-		500X
1708524-06	W-101-B_081517_SED_01-03_R3	0.25	20	-	-	-		500X
1708524-07	W-102-A_081517_SED_00-01	0.25	20	-	-	-		500X
1708524-08	W-102-A_081517_SED_01-03	0.25	20	-	-	-		500X
1708524-09	W-102-B_081517_SED_00-01	0.25	20	-	-	-		500X
1708524-10	W-102-B_081517_SED_01-03	0.25	20	-	-	-		500X
1708630-05	S-170807-01217 25538 Shrimp 31-40 Ore Cal-MRG	0.25	20	-	-	-	BatchQC	500X Added for BatchQC in: F708524
1708633-01	S-170717-00791 458141 Chilean Sea Bass Tai Foong	0.25	20	-	-	-		2500X
1708633-02	S-170717-00796 458141 Chilean Sea Bass Tai Foong	0.25	20	-	-	-		2500X
1708633-03	S-170717-00793 458141 Chilean Sea Bass Mazzetta	0.25	20	-	-	-		2500X
1708633-04	S-170717-00794 458141 Chilean Sea Bass Mazzetta	0.25	20	-	-	-		2500X
1708633-05	S-170717-00795 458141 Chilean Sea Bass Mazzetta	0.25	20	-	-	-		2500X

PREPARATION BENCH SHEET

2700-1  
8/30/17 DM

F708524

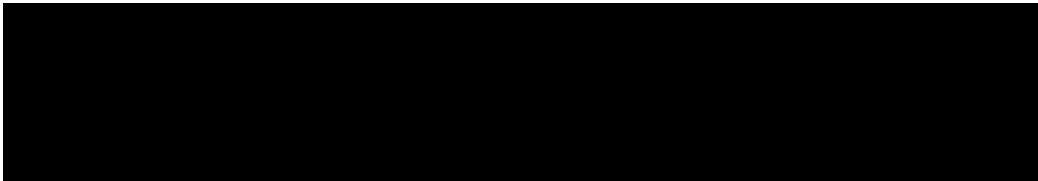
Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/24/2017

1708633-06	S-170705-00193 417382 Halibut S.M Products	0.25	20	-	-	-	2500x ✓
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Technician: CWF Batch#: F708524 Date: 8/24/17

- EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: \_\_\_\_\_ Vial Type:  Glass  Teflon  
 Balance#: 6/19/2014 Calibrated?  Yes  No Therm.#: 13698 Calibrated?  Yes  No  
 \*Time in: 17:00 Actual Temp. (raw): 72.0 °C w/ CF: 71.7 °C  
 Time out: 20:00 Actual Temp. (raw): 83.0 °C w/ CF: 82.7 °C  
 \*Time in can't begin before target temperature is reached.

Final vol.: 20 mL (LIMS ID: 160619) Spike vol.: 100 µL (LIMS ID: 1605978)  
 Spike Witness: AMB 8-25-17 (initial and date)

HCl LIMS ID: N/A Pipette SN#: MU09653 Calibration Date: 8/24/17  
 HNO<sub>3</sub> LIMS ID: N/A Pipette SN#: MU01192 Calibration Date: 8/22/17  
 70/30 LIMS ID: N/A Dispenser #: 02N48426 Calibrated?  Yes  No  
 Other Acid LIMS ID: KOH/Methanol = 1704729 Dispenser #: N/A  
 Glass Vial # 0006824 Boiling Chip lot # 1702591 \*Hotblock Position: E4

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input type="checkbox"/> g	Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input type="checkbox"/> g	CRM LIMS ID <input type="checkbox"/> NA
1	F708524 - BLU	0.293	23	1708524 - 07	0.261	BS1/BSD1 = DORM-4
2	F708524 - BLU2	0.279	24	1708524 - 08	0.264	LIMS = 1703305
3	F708524 - BLU3	0.281	25	1708524 - 09	0.290	
4	F708524 - BLU4	0.254	26	1708524 - 10	0.263	Comments
5	F708524 - BLU5	0.269	27	<del>1708630 - 01</del>	<del>0.278</del>	BS/BSD DORM-4
6	F708524 - BLU6	0.299	28	1708630 - 05	0.299	weighed out on scale 19.
7	F708524 - BLU7	0.280	29	F708524 - MSD	0.253	
8	F708524 - BS1	0.1312	30	F708524 - MSD2	0.297	BLU 4 & 5 are pre/post blanks for 170830
9	F708524 - BSD1	0.1339	31	<del>1708630 -</del>	<del>0.278</del>	
10	1708155 - 06	0.277	32	1708633 - 01	0.278	
11	F708524 - DUP1	0.302	33	1708633 - 02	0.293	BLU 6 & 7 are pre/post blanks for 170833
12	F708524 - MS1	0.303	34	1708633 - 03	0.287	
13	F708524 - MSD1	0.290	35	1708633 - 04	0.251	
14	<del>1708155</del>	<del>0.277</del>	36	1708633 - 05	0.264	DUP1, MS1, MSD1 source = 1708155-06
15	1708523 - 01	0.280	37	1708633 - 06	0.252	
16	1708923 - 02	0.262	38			MS2, MSD2 source = 1708630-05
17	1708524 - 01	0.259	39			
18	1708524 - 02	0.281	40			MS1/MSD1, MS2/MSD2
19	1708524 - 03	0.311	41			MS2/MSD2 spiked w/ 100 µL of 100 µg/L
20	1708524 - 04	0.282	42			
21	1708524 - 05	0.259	43			
22	1708524 - 06	0.268	44			

**PREPARATION BENCH SHEET**

F708549

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/25/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708549-BLK1	Blank	0.25	20					
F708549-BLK2	Blank	0.25	20					
F708549-BLK3	Blank	0.25	20					
F708549-BS1	LCS	0.1332	20	1703305	133.2			
F708549-BSD1	LCS Dup	0.1279	20	1703305	127.9			
F708549-DUP1	Duplicate [1708151-04RE1]	0.2657	20					
F708549-MS1	Matrix Spike [1708151-04RE1]	0.2647	20	1605978	100			
F708549-MS2	Matrix Spike [1708151-22RE1]	0.2611	20	1605978	100			
F708549-MSD1	Matrix Spike Dup [1708151-04RE1]	0.2993	20	1605978	100			
F708549-MSD2	Matrix Spike Dup [1708151-22RE1]	0.2668	20	1605978	100			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1605978	MHg New Primary 100 ng/mL spike	15-Oct-17 00:00	1606119	Methanol, HPLC Grade	17-Oct-19 00:00
1703305	DORM-4	29-May-20 00:00	1704399	Ethylating Agent (For Methyl Mercury Analysis)	16-Jan-18 00:00
		29-May-20 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
			1704707	Acetate Buffer	29-Jan-18 00:00
			1705204	25% KOH/Methanol	03-Feb-18 00:00

**PREPARATION BENCH SHEET**

F708549

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/25/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-04RE1	W-101-INTA_080117_SED_01-03_R1	0.2732	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-05RE1	W-101-INTA_080117_SED_01-03_R2	0.2924	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-06RE1	W-101-INTA_080117_SED_01-03_R3	0.2824	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-07RE1	W-104-B_080117_SED_00-01	0.2991	20	-	-	-	Re-extract added 8/25/2017 by CF	
1708151-08RE1	W-104-B_080117_SED_01-03	0.2936	20	-	-	-	Original jar broken, transferred sample	
1708151-09RE1	W-104-INTB_080117_SED_00-01	0.2967	20	-	-	-	Original jar broken, transferred sample	
1708151-10RE1	W-104-INTB_080117_SED_01-03	0.2696	20	-	-	-	Original jar broken, transferred sample	
1708151-11RE1	W-106-A_080117_SED_00-01	0.2685	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-12RE1	W-106-A_080117_SED_01-03	0.2701	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-13RE1	W-107-A_080117_SED_00-01	0.2613	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-14RE1	W-107-A_080117_SED_01-03	0.2775	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-15RE1	W-109-A_080117_SED_00-01	0.2676	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-16RE1	W-109-A_080117_SED_01-03	0.2819	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-17RE1	W-110-A_080117_SED_00-01_R1	0.2863	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-18RE1	W-110-A_080117_SED_00-01_R2	0.2902	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-19RE1	W-110-A_080117_SED_00-01_R3	0.2897	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-20RE1	W-110-A_080117_SED_01-03	0.2506	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-21RE1	W-MM-09_080117_SED_00-01	0.2921	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-22RE1	W-MM-09_080117_SED_01-03	0.2731	20	QC	-	-	MS/MSD Re-extract added 8/25/2017 t	

Due Date: 9/5/2017

PREPARATION BENCH SHEET

F708549

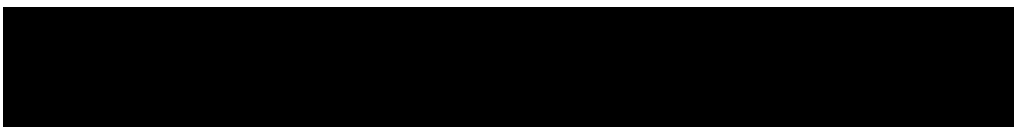
Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

1708151-23RE1	W-MM-10_080117_SED_00-01	0.2688	20	-	-	-	Re-extract added 8/25/2017 by DM2	
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PREPARATION BENCH SHEET

2700-1  
8/30/17 DM

F708549

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708549-BLK1	Blank	0.25	20					500X
F708549-BLK2	Blank	0.25	20					500X
F708549-BLK3	Blank	0.25	20					500X
F708549-BS1	LCS	0.1332	20	1703305	133.2			1000X
F708549-BSD1	LCS Dup	0.1279	20	1703305	127.9			1000X
F708549-DUP1	Duplicate [1708151-04RE1]	0.2657	20					500X
F708549-MS1	Matrix Spike [1708151-04RE1]	0.2647	20	1605978	100			500X
F708549-MS2	Matrix Spike [1708151-22RE1]	0.2611	20	1605978	100			500X
F708549-MSD1	Matrix Spike Dup [1708151-04RE1]	0.2993	20	1605978	100			500X
F708549-MSD2	Matrix Spike Dup [1708151-22RE1]	0.2668	20	1605978	100			500X

Standard ID(s):  
1605978  
1703305

Description:  
MHg New Primary 100 ng/mL spike  
DORM-4

Expiration:  
15-Oct-17 00:00  
29-May-20 00:00  
29-May-20 00:00

Reagent ID(s):  
1606119  
1704424  
1705204

Description:  
Methanol, HPLC Grade  
Boiling Chips for AFS prep  
25% KOH/Methanol

Expiration:  
17-Oct-19 00:00  
21-Jan-18 00:00  
03-Feb-18 00:00

1704707  
1704399

PREPARATION BENCH SHEET

2700-1  
8/25/17 DM

F708549

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-04RE1	W-101-INTA_080117_SED_01-03_R1	0.2732	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-05RE1	W-101-INTA_080117_SED_01-03_R2	0.2924	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-06RE1	W-101-INTA_080117_SED_01-03_R3	0.2824	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-07RE1	W-104-B_080117_SED_00-01	0.2991	20	-	-	-	Re-extract added 8/25/2017 by CF	500X
1708151-08RE1	W-104-B_080117_SED_01-03	0.2936	20	-	-	-	Original jar broken, transferred sample	500X
1708151-09RE1	W-104-INTB_080117_SED_00-01	0.2967	20	-	-	-	Original jar broken, transferred sample	500X
1708151-10RE1	W-104-INTB_080117_SED_01-03	0.2696	20	-	-	-	Original jar broken, transferred sample	500X
1708151-11RE1	W-106-A_080117_SED_00-01	0.2685	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-12RE1	W-106-A_080117_SED_01-03	0.2701	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-13RE1	W-107-A_080117_SED_00-01	0.2613	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-14RE1	W-107-A_080117_SED_01-03	0.2775	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-15RE1	W-109-A_080117_SED_00-01	0.2676	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-16RE1	W-109-A_080117_SED_01-03	0.2819	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-17RE1	W-110-A_080117_SED_00-01_R1	0.2863	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-18RE1	W-110-A_080117_SED_00-01_R2	0.2902	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-19RE1	W-110-A_080117_SED_00-01_R3	0.2897	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-20RE1	W-110-A_080117_SED_01-03	0.2506	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-21RE1	W-MM-09_080117_SED_00-01	0.2921	20	-	-	-	Re-extract added 8/25/2017 by DM2	500X
1708151-22RE1	W-MM-09_080117_SED_01-03	0.2731	20	QC	-	-	MS/MSD Re-extract added 8/25/2017 t	500X

Due Date: 9/5/2017



PREPARATION BENCH SHEET

2700-1  
8/25/17 DM

F708549

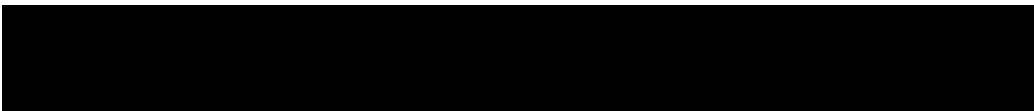
Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

1708151-23RE1	W-MM-10_080117_SED_00-01	0.2688	20	-	-	-	Re-extract added 8/25/2017 by DM2	spot
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Technician: W F Batch#: F708549 <sup>W F</sup> ~~F708535~~ <sup>8/28/17</sup> Date: 8/28/17

- EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: \_\_\_\_\_ Vial Type:  Glass  Teflon  
 Balance#: 19 Calibrated?  Yes  No Therm.#: 13698 Calibrated?  Yes  No  
 \*Time in: 14:00 Actual Temp. (raw): 76.0 °C w/ CF: 76.0 °C  
 Time out: 17:35 Actual Temp. (raw): 78.0 °C w/ CF: 78.0 °C  
 \*Time in can't begin before target temperature is reached

Final vol.: 20 mL (LIMS ID: 1606119) Spike vol.: 100 µL (LIMS ID: 1605478)  
 Spike Witness: om 8/29/17 (initial and date)

HCl LIMS ID: N/A Pipette SN#: NU09653 Calibration Date: 8/24/17  
 HNO<sub>3</sub> LIMS ID: N/A Pipette SN#: NU1152 Calibration Date: 8/22/17  
 70/30 LIMS ID: N/A Dispenser #: 02N48426 Calibrated?  Yes  No  
 Other Acid LIMS ID: KOH/Methanol = 1705204 Dispenser #: N/A  
 Glass Vial # 00068124 Boiling Chip lot # 1704424 \*Hotblock Position: A6

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> g	CRM LIMS ID <input type="checkbox"/> NA
1	<del>F708549</del> F708535 - BLK1	0.2803	23	1708151 - 18 RE1	0.2902	BS1/BSDI = DoRM-4
2	F708549 - BLK2	0.2566	24	1708151 - 19 RE1	0.2897	LIMS = 1703305
3	F708549 - BLK3	0.2601	25	1708151 - 20 RE1	0.2506 0.2669	W F
4	F708549 - BS1	0.1332	26	1708151 - 21 RE1	0.2921	Comments
5	F708549 - BSD1	0.1279	27	1708151 - 22 RE1	0.2731	DVPI, MSI, MSDI
6	1708151 - 04 RE1	0.2732	28	F708549 - MS2	0.2611	source = 1708151 - 04 RE1
7	F708549 - DVPI	0.2657	29	F708549 - MSD2	0.2668	MS2, MSD2
8	F708549 - MSI	0.2647	30	1708151 - 23 RE1	0.2688	source = 1708151 - 22 RE1
9	F708549 - MSDI	0.2993	31			
10	1708151 - 05 RE1	0.2924	32			W F 8/28/17
11	1708151 - 06 RE1	0.2824	33			
12	1708151 - 07 RE1	0.2991	34			
13	1708151 - 08 RE1	0.2936	35			
14	1708151 - 09 RE1	0.2967	36			
15	1708151 - 10 RE1	0.2696	37			
16	1708151 - 11 RE1	0.2685	38			
17	1708151 - 12 RE1	0.2701	39			
18	1708151 - 13 RE1	0.2613	40			
19	1708151 - 14 RE1	0.2775	41			
20	1708151 - 15 RE1	0.2676	42			
21	1708151 - 16 RE1	0.2819	43			
22	1708151 - 17 RE1	0.2863	44			

# Failing Data Report - 7H31009

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
F708524-BS1	MHg-CVAFS-S-KOH ✓	215.3	7.6			330.28	ng/g	65.2	70.00	130.00			PASS-OVER	FAIL-BS	Re Analyzed
F708524-BSD1	MHg-CVAFS-S-KOH ✓	180.8	7.5	215.3		330.28	ng/g	54.7	70.00	130.00	17.4	25.00	PASS-OVER	FAIL-BSD (Rec.)	Re-Analyzed
F708524-MSD1	MHg-CVAFS-S-KOH ✓	28.7	1.7	38.8	4.7	34.517	ng/g	69.5	65.00	130.00	39.0	35.00	PASS-OVER	FAIL-MSD (RPD)	QR-07
F708524-MS2	MHg-CVAFS-S-KOH ✓	88.9	9.9		2.3	39.565	ng/g	219	65.00	130.00			PASS-OVER	FAIL-MS	QM-07
F708524-MSD2	MHg-CVAFS-S-KOH ✓	88.8	8.4	88.9	2.3	33.704	ng/g	256	65.00	130.00	15.8	35.00	PASS-OVER	FAIL-MSD (Rec.)	QM-07 ✓
F708549-BS1	MHg-CVAFS-S-KOH ✓	226.6	7.5			330.28	ng/g	68.6	70.00	130.00			PASS-OVER	FAIL-BS	
F708549-BSD1	MHg-CVAFS-S-KOH ✓	209.1	7.8	226.6		330.28	ng/g	63.3	70.00	130.00	8.00	25.00	PASS-OVER	FAIL-BSD (Rec.)	PR batch 708549
F708549-MSD1	MHg-CVAFS-S-KOH ✓	22.4	1.7	32.9	4.9	33.445	ng/g	52.4	65.00	130.00	34.3	35.00	PASS-OVER	FAIL-MSD (Rec.)	QM-07
F708524-BS1	MHg-CVAFS-T-KOH ✓	215.3	7.6			330.28	ng/g	65.2	70.00	130.00			PASS-OVER	FAIL-BS	
F708524-BSD1	MHg-CVAFS-T-KOH ✓	180.8	7.5	215.3		330.28	ng/g	54.7	70.00	130.00	17.4	25.00	PASS-OVER	FAIL-BSD (Rec.)	PR in this analytical run
F708524-MSD1	MHg-CVAFS-T-KOH ✓	28.7	1.7	38.8	4.7	34.517	ng/g	69.5	65.00	130.00	39.0	35.00	PASS-OVER	FAIL-MSD (RPD)	QR-07
F708524-MS2	MHg-CVAFS-T-KOH ✓	88.9	9.9		2.3	39.565	ng/g	219	65.00	130.00			PASS-OVER	FAIL-MS	QM-07
F708524-MSD2	MHg-CVAFS-T-KOH ✓	88.8	8.4	88.9	2.3	33.704	ng/g	256	65.00	130.00	15.8	35.00	PASS-OVER	FAIL-MSD (Rec.)	QM-07
<del>F708549-BS1</del>	<del>MHg-CVAFS-T-KOH</del>	226.6	7.5			330.28	ng/g	68.6	70.00	130.00			PASS-OVER	FAIL-BS	
<del>F708549-BSD1</del>	<del>MHg-CVAFS-T-KOH</del>	209.1	7.8	226.6		330.28	ng/g	63.3	70.00	130.00	8.00	25.00	PASS-OVER	FAIL-BSD (Rec.)	
F708549-DUP1	MHg-CVAFS-T-KOH ✓	4.4	1.9				ng/g				200	35.00	PASS-OVER	FAIL-DUP	QR-07

Analyst Reviewed By Don M. Mason Date 8/31/17

Peer Reviewed By [Signature] Date 9/4/17

**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b> DON MORAN	<b>Sequence #:</b> 7H31009
<b>Reviewer:</b> <i>R 9/1/17</i>	<b>Dataset ID #:</b> MHG27001-170830-1
<b>Date:</b> 8-31-17	<b>WO #:</b> VARIOUS
<b>Batch #(s):</b> F708524, F708549	<b>Client(s):</b> VARIOUS

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input type="checkbox"/> MHg	SOP2797 MHg Distillation	Water
<input checked="" type="checkbox"/> MHg	SOP2986 KOH/MeOH Digest	Tissue
<input type="checkbox"/> MHg	SOP5134 MeCl Extraction	Sed/Soil
<input type="checkbox"/> DMHg	SOP2816 (None Accredited method)	ALL

	<b>Analyst Initials:</b> <i>DM</i>		<b>Reviewer Initials:</b> <i>R 9/1/17</i>
1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
2. Check for transcription errors from Excel spreadsheet (or Prep Bench sheet)/Raw data	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(a) Reviewer: 100% of peak heights checked	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(b) Are there peak height errors?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(c) Error on a sample: Do peak heights, responses, & initial results match corrected data?	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(f) Check and compare masses (review prep bench sheet)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(g) Check and compare initial and final volumes	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(h) Do aliquots and dilutions written on benchsheet match those in Excel?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(i) Is the pH>3.0 for all distilled samples? _____	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(j) Is the sequence #, analyst, date, and instrument # on the QC page?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(k) Is the analysis status correct? (analyzed/initial review/reviewed)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(l) Original prep bench sheet added to data package?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
3. High QA?                      WO#(s)/Client(s): _____	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input checked="" type="checkbox"/>
4. Client specific QC? (if Yes, refer to Project Notes/LIMS)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(a) Have the QC requirements been met for all WO#s?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
5. 20 or fewer samples in batch? _____	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(a) 3 PBs, 1 LCS/LCSD (or BS/BSD), 2 MS/MSD/MD per batch?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(b) 1 CCV and 1 CCB every 10 analytical runs? _____	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/>
<b>QA/QC Data Checked</b>			
6. The calibration curve included a minimum of 5 Standards	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments: _____			
7. 1st Calibration Standard % Recoveries (65-135%)	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments: _____			
8. RSD CF (≤ 15%)	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: _____			

**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b>	DON MORAN	<b>Sequence #:</b>	7H31009
<b>Reviewer:</b>	0 <i>R 9/4/17</i>	<b>Dataset ID #:</b>	MHG27001-170830-1
<b>Date:</b>	8/31/2017	<b>WO #:</b>	VARIOUS
<b>Batch #(s):</b>	F708524, F708549	<b>Client(s):</b>	VARIOUS

**Analyst Initials:**

*DM*

**Reviewer Initials:**

*R 9/4/17*

- |  |  |  |   |
|--|--|--|---|
| 9. ICV % Recoveries 67-133%  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL            | <input type="checkbox"/>                |
| Comments: _____  |  |  |   |
| 10. CCV % Recoveries 67-133%   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL            | <input type="checkbox"/>                |
| Comments: _____  |  |  |   |
| 11. Are the absolute value of the ICB and CCBs < PQL?  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL            | <input type="checkbox"/>                |
| Comments: _____  |  |  |   |
| 12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%)   | <input checked="" type="checkbox"/> PASS | <input checked="" type="checkbox"/> FAIL | <input type="checkbox"/>                |
| Comments: <b><i>F708524-bs1, bsd1, F708549-bs1, bsd1 failed. Low recovery</i></b>            |  |  |   |
| 13. LCS/LCSD or BS/BSD RPD (< 25%)   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL            | <input checked="" type="checkbox"/>     |
| Comments: _____  |  |  |   |
| 14. Water: Average of Preparation Blanks < 0.045 ng/L and standard deviation of 0.015 ng/L?  | <input type="checkbox"/> PASS            | <input type="checkbox"/> FAIL            | <input checked="" type="checkbox"/> N/A |
| Comments: _____  |  |  |   |
| 15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix?          | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL            | <input type="checkbox"/> N/A            |
| Comments: _____  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL            | <input checked="" type="checkbox"/>     |
| 16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done) | <input type="checkbox"/> YES             | <input type="checkbox"/> NO              | <input checked="" type="checkbox"/> N/A |
| 17. Is the correct 'Source' designated for MD/MS/MSD?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO              | <input checked="" type="checkbox"/>     |
| 18. For digested preps: was there a spike witness signature & date on the prep bench sheet?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO              | <input type="checkbox"/> N/A            |
| 19. MD RPD/MT RSD (< 35%)  | <input checked="" type="checkbox"/> PASS | <input checked="" type="checkbox"/> FAIL | <input type="checkbox"/>                |
| Comments: <b><i>F708549-DUP1 FAILED. HIGH RECOVERY</i></b>                                   |  |  |   |
| 20. Is there one set of MS/MSD per every 10 samples?   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL            | <input checked="" type="checkbox"/>     |
| Comments: _____  |  |  |   |
| 21. MS/MSD RPD (< 35%)   | <input checked="" type="checkbox"/> PASS | <input checked="" type="checkbox"/> FAIL | <input checked="" type="checkbox"/>     |
| Comments: <b><i>F708524-MSD1, F708549-MSD1 FAILED. HIGH RPD</i></b>                          |  |  |   |
| 22. MS (AS) % Recoveries (65-130%)   | <input checked="" type="checkbox"/> PASS | <input checked="" type="checkbox"/> FAIL | <input checked="" type="checkbox"/>     |
| Comments: <b><i>F708524-MS2 FAILED. HIGH RECOVERY</i></b>                                    |  |  |   |
| 23. MSD (ASD) % Recoveries (65-130%)   | <input checked="" type="checkbox"/> PASS | <input checked="" type="checkbox"/> FAIL | <input checked="" type="checkbox"/>     |
| Comments: <b><i>F708524-MSD1, F708549-MSD1 FAILED. HIGH RPD</i></b>                          |  |  |   |
| 24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630)                    | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO              | <input checked="" type="checkbox"/>     |
| 25. Are all samples within instrument calibration range (or at maximum aliquot size)?        | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO              | <input checked="" type="checkbox"/>     |
| Comments: _____  |  |  |   |
| 26. For instrumental dilutions, is the dilution factor in excel correct?                     | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> NO              | <input type="checkbox"/> N/A            |
| Is the sample volume, diluents, and final volume of the dilution noted on benchsheet?        | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> NO              | <input type="checkbox"/> N/A            |
| 27. Dissolved < Total metals (if applicable)   | <input type="checkbox"/> PASS            | <input type="checkbox"/> NO              | <input checked="" type="checkbox"/> N/A |
| Comments: _____  |  |  |   |
| 28. Effluent < Influent metals (visually confirm if needed)                                  | <input type="checkbox"/> PASS            | <input type="checkbox"/> NO              | <input type="checkbox"/> N/A            |
| Comments: _____  |  |  |   |

**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b>	DON MORAN	<b>Sequence #:</b>	7H31009
<b>Reviewer:</b>	0 <i>pr 9/4/17</i>	<b>Dataset ID #:</b>	MHG27001-170830-1
<b>Date:</b>	8/31/2017	<b>WO #:</b>	VARIOUS
<b>Batch #(s):</b>	F708524, F708549	<b>Client(s):</b>	VARIOUS

**Analyst Initials:** DM      **Reviewer Initials:** pr 9/4/17

29. Are re-runs noted with reason?  YES     NO     N/A
- Comments: \_\_\_\_\_
30. For failing QC (CCV, CCB, PB, BS/BSD, CAL):  YES     NO     N/A
- Was a bubbler and trap test run before the analytical run continued?
- Comments: \_\_\_\_\_
31. Do re-run results compare to initial analysis (< 35% RPD)?  YES     NO     N/A
- Comments: \_\_\_\_\_
32. Are qualifiers consistent with the data review flowcharts?  YES     NO     N/A
- Comments: \_\_\_\_\_
33. Have non-reportable samples been imported into LIMS and clicked to non-reportable?  YES     NO     N/A
- Comments: \_\_\_\_\_
34. Have re-extracts been created for non-reportable samples?  YES     NO     N/A
35. Narrations in MMO box in LIMS?
- Comments: \_\_\_\_\_
36. Are there any HIGH QA projects within the data?  YES     NO
- If so, place dataset to the QA office.
37. Does the data set need scanning?  YES     N/A
- Files located at: \\Cuprum\gen\_admin\Quality Assurance\Training Master\DOCs
38. Date of analyst IDOC/CDOC: 6/13/2017 IDOC/CDOC within last 12 months?  YES     NO
39. Date of analyst's SOP reading: 5/23/2016 Current SOP revision?  YES     NO
40. Date of LOD: 4/24/2017 LOD within last 3 months (within 12 months for MDN)?  YES     NO     N/A
41. Date of LOQ: 4/24/2017 LOQ within last 3 months (within 12 months for MDN)?  YES     NO     N/A
42. If MDN samples, date of last MDL study: \_\_\_\_\_
43. MDL study within last 12 months?  YES     NO     N/A

**Data can not be reported without a current IDOC/CDOC, LOD or LOQ.**

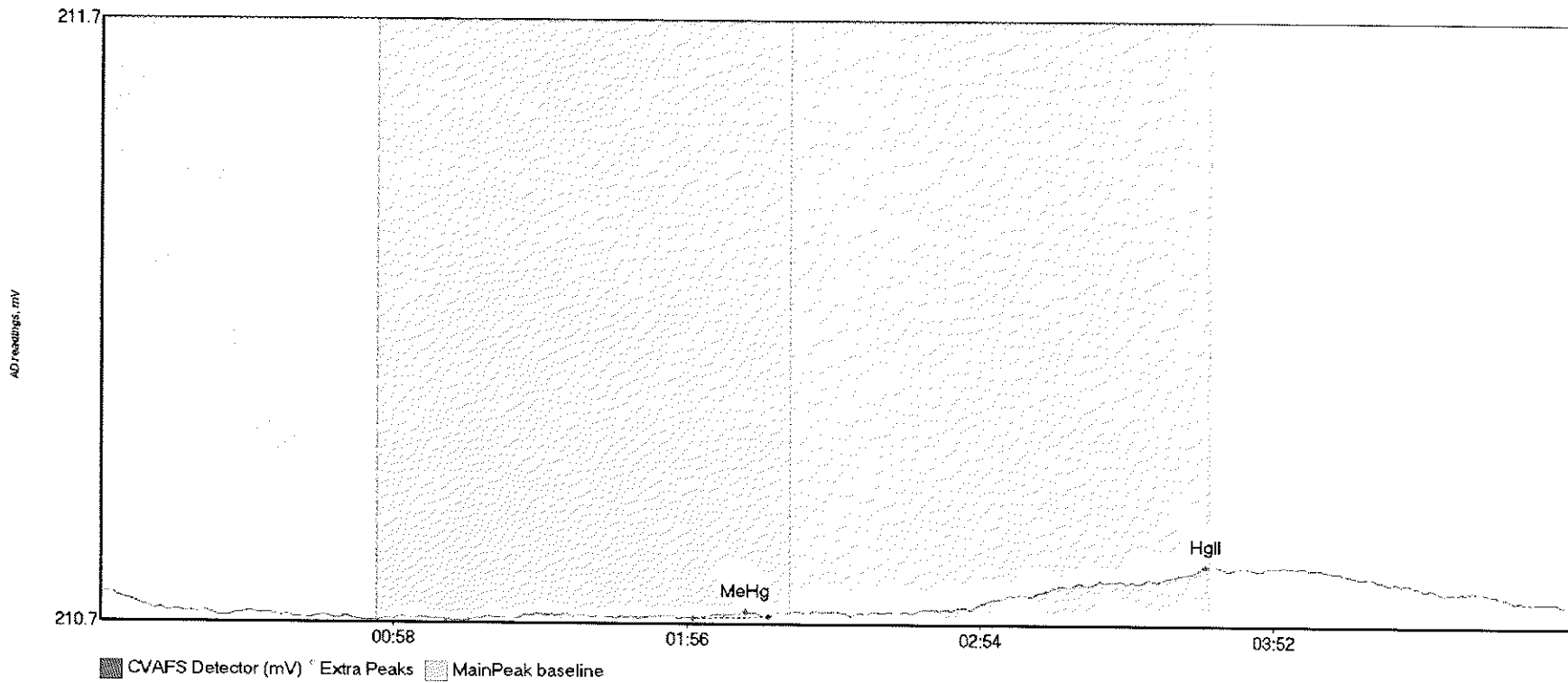
Additional Comments:  YES     NO

MethylMercury EPA1630	Operat DM Worksl MHG27	BlankSub: CalibFactor: Methoc 2010-D1 R: Descrip MHG27001-170830-1	Calib Eqn: Status: R <sup>2</sup> :	Run Date: 6/30/2017 Run Time: 0:00:00 CalibAnalyte:	Blank SD: Blank RSD%: CF RSD%:	ConcH00(a) ConcNetHq ConcHQ2 ConcPRHq Re%	QA	RawData	RunEnd	PeakHq0 (Raw)	PeakNetHq (R)	PeakHq2(Raw)	PeakPRHq(R)	Control (ref)	Flags	RunCount	
Clean	A1							25467-1.RAW	8:50:01	0.00	0.72	2.47		0.00	cleandry	CT	1
WS	A2	1						25468-1.RAW	9:00:32	2.80	0.00	4.37		0.00	psample10	OK	1
SEQ-JBL1	A3	1						25469-1.RAW	9:11:02	2.83	0.00	1.92		0.00	psample10	OK	1
SEQ-CAL1	A4	1						25470-1.RAW	9:21:33	6.10	25.60	3.85		0.00	psample10	OK	1
SEQ-CAL2	A5	1						25471-1.RAW	9:32:04	5.57	98.24	3.50		0.00	psample10	OK	1
SEQ-CAL3	A6	1						25472-1.RAW	9:42:35	4.43	540.77	24.69		0.00	psample10	OK	1
SEQ-CAL4	A7	1						25473-1.RAW	9:53:05	6.52	1065.47	44.51		0.00	psample10	OK	1
SEQ-CAL5	A8	1						25474-1.RAW	10:03:36	9.23	2180.62	101.72		0.00	psample10	OK	1
SEQ-ICV1	A9	1						25475-1.RAW	10:14:07	3.09	270.82	3.93		0.00	psample10	OK	1
SEQ-ICB1	A10	500						25476-1.RAW	10:24:38	3.86	2.73	1.93		0.00	psample10	OK	1
F708524-BLK1	A11	500						25477-1.RAW	10:35:08	0.00	0.00	14.16		0.00	psample10	OK	1
F708524-BLK2	A12	500						25478-1.RAW	10:45:39	3.58	0.25	13.94		0.00	psample10	OK	1
F708524-BLK3	A13	500						25479-1.RAW	10:56:10	2.90	0.05	6.89		0.00	psample10	OK	1
*F708524-BLK4	A14	500						25480-1.RAW	11:06:40	3.44	0.00	12.47		0.00	psample10	OK	1
*F708524-BLK5	A15	500						25481-1.RAW	11:17:10	4.72	0.00	4.73		0.00	psample10	OK	1
*F708524-BLK6	A16	500						25482-1.RAW	11:27:40	3.88	0.00	7.79		0.00	psample10	OK	1
*F708524-BLK7	A17	1000						25483-1.RAW	11:38:11	1.96	0.00	10.69		0.00	psample10	OK	1
F708524-BS1	A18	1000						25484-1.RAW	11:48:41	5.28	790.56	109.01		0.00	psample10	OK	1
F708524-BSD1	A19	500						25485-1.RAW	11:59:12	3.00	634.82	96.09		0.00	psample10	OK	1
F708524-DJ1	A20	1						25486-1.RAW	12:09:43	14.91	80.48	1442.00		0.00	psample10	OK	1
SEQ-CCV1	A21	1						25487-1.RAW	12:20:14	5.23	237.76	6.19		0.00	psample10	CT	1
SEQ-CCB1	B1	500						25488-1.RAW	12:30:44	2.54	1.16	5.24		0.00	psample10	OK	1
F708524-MS1	B2	500						25489-1.RAW	12:41:15	6.67	616.78	1657.29		0.00	psample10	OK	1
F708524-MSD1	B3	2500						25490-1.RAW	12:51:46	9.27	436.95	1391.78		0.00	psample10	OK	1
F708524-MS2	B4	2500						25491-1.RAW	13:02:16	6.44	235.88	31.77		0.00	psample10	CT	1
F708524-MSD2	B5	500						25492-1.RAW	13:12:47	5.32	276.47	31.92		0.00	psample10	OK	1
1708155-06	B6	500						25493-1.RAW	13:23:18	6.25	66.71	1363.67		0.00	psample10	CT	1
1708523-01	B7	500						25494-1.RAW	13:33:48	5.03	100.96	1227.02		0.00	psample10	CT	1
1708523-02	B8	500						25495-1.RAW	13:44:19	3.69	106.36	1481.08		0.00	psample10	OK	1
1708524-01	B9	500						25496-1.RAW	13:54:50	3.23	78.13	1177.32		0.00	psample10	CT	1
1708524-02	B10	500						25497-1.RAW	14:05:20	3.63	67.03	1560.74		0.00	psample10	CT	1
1708524-03	B11	500						25498-1.RAW	14:15:51	10.61	23.41	1465.12		0.00	psample10	CT	1
SEQ-CCV2	B12	1						25499-1.RAW	14:26:22	5.45	224.95	12.61		0.00	psample10	OK	1
SEQ-CCB2	B13	500						25500-1.RAW	14:36:52	1.47	0.00	5.04		0.00	psample10	OK	1
1708524-04	B14	500						25501-1.RAW	14:47:23	12.14	54.48	4677.64		0.00	psample10	CT	1
1708524-05	B15	500						25502-1.RAW	14:57:54	14.87	47.77	4984.94		0.00	psample10	CT	1
1708524-06	B16	500						25503-1.RAW	15:08:24	7.89	39.01	2647.54		0.00	psample10	CT	1
1708524-07	B17	500						25504-1.RAW	15:18:55	8.60	307.31	756.20		0.00	psample10	OK	1
1708524-08	B18	500						25505-1.RAW	15:29:26	11.87	214.49	2231.56		0.00	psample10	CT	1
1708524-09	B19	500						25506-1.RAW	15:39:56	3.93	115.54	425.85		0.00	psample10	OK	1
1708524-10	B20	500						25507-1.RAW	15:50:27	4.94	61.86	774.70		0.00	psample10	OK	1
1708630-05	B21	2500						25508-1.RAW	16:00:58	3.06	36.39	15.34		0.00	psample10	CT	1
1708633-01	B22	2500						25509-1.RAW	16:11:28	6.55	638.22	6.82		0.00	psample10	CT	1
1708633-02	C1	2500						25510-1.RAW	16:21:59	4.63	729.19	8.84		0.00	psample10	OK	1
SEQ-CCV3	C2	1						25511-1.RAW	16:32:30	5.22	248.18	5.30		0.00	psample10	OK	1
SEQ-CCB3	C3	1						25512-1.RAW	16:43:00	3.20	0.00	21.76		0.00	psample10	CT	1
1708633-03	C4	2500						25513-1.RAW	16:53:31	5.20	1190.61	10.13		0.00	psample10	OK	1
1708633-04	C5	2500						25514-1.RAW	17:04:02	4.84	229.50	7.72		0.00	psample10	OK	1
1708633-05	C6	2500						25515-1.RAW	17:14:32	4.06	306.60	7.05		0.00	psample10	OK	1
1708633-06	C7	2500						25516-1.RAW	17:25:03	3.25	247.37	17.31		0.00	psample10	OK	1
F708524-BS2	C8	1000						25517-1.RAW	17:35:34	4.44	1066.37	151.80		0.00	psample10	CT	1
F708524-BSD2	C9	1000						25518-1.RAW	17:46:04	4.89	1025.79	149.36		0.00	psample10	CT	1
F708549-BLK1	C10	500						25519-1.RAW	17:56:35	2.96	4.01	37.00		0.00	psample10	CT	1
F708549-BLK2	C11	500						25520-1.RAW	18:07:06	5.26	1.03	6.90		0.00	psample10	OK	1
F708549-BLK3	C12	500						25521-1.RAW	18:17:36	3.46	1.24	18.15		0.00	psample10	OK	1
F708549-BS1	C13	1000						25522-1.RAW	18:28:07	5.68	792.29	130.16		0.00	psample10	OK	1
SEQ-CCV4	C14	1						25523-1.RAW	18:38:38	2.53	251.38	3.63		0.00	psample10	OK	1
SEQ-CCB4	C15	1						25524-1.RAW	18:49:08	4.36	2.24	5.47		0.00	psample10	CT	1
F708549-BSD1	C16	1000						25525-1.RAW	18:59:39	2.39	702.40	126.98		0.00	psample10	OK	1
F708549-DJ1	C17	500						25526-1.RAW	19:10:10	4.10	63.97	2323.22		0.00	psample10	CT	1
F708549-MS1	C18	500						25527-1.RAW	19:20:41	9.46	459.08	2631.06		0.00	psample10	CT	1
F708549-MSD1	C19	500						25528-1.RAW	19:31:11	10.81	353.82	2443.70		0.00	psample10	CT	1
F708549-MS2	C20	500						25529-1.RAW	19:41:42	10.65	600.00	2050.13		0.00	psample10	CT	1
F708549-MSD2	C21	500						25530-1.RAW	19:52:13	13.01	647.41	1730.20		0.00	psample10	OK	1
1708151-04RE1	A1	500						25531-1.RAW	20:02:43	10.56	71.86	2471.12		0.00	psample10	CT	1
1708151-05RE1	A2	500						25532-1.RAW	20:13:14	8.23	87.30	2969.69		0.00	psample10	CT	1
1708151-06RE1	A3	500						25533-1.RAW	20:23:46	15.29	84.98	2887.56		0.00	psample10	OK	1
1708151-07RE1	A4	500						25534-1.RAW	20:34:17	9.02	22.92	427.53		0.00	psample10	OK	1
SEQ-CCV5	A5	1						25535-1.RAW	20:44:47	8.03	251.17	13.16		0.00	psample10	OK	1
SEQ-CCB5	A6	1						25536-1.RAW	20:55:18	7.09	2.13	12.37		0.00	psample10	OK	1
1708151-08RE1	A7	500						25537-1.RAW	21:05:49	2.81	17.86	1586.17		0.00	psample10	CT	1
1708151-09RE1	A8	500						25538-1.RAW	21:16:19	4.81	117.80	1799.82		0.00	psample10	OK	1
1708151-10RE1	A9	500						25539-1.RAW	21:26:50	8.48	55.63	1628.83		0.00	psample10	OK	1
1708151-11RE1	A10	500						25540-1.RAW	21:37:21	7.70	65.13	1534.10		0.00	psample10	OK	1

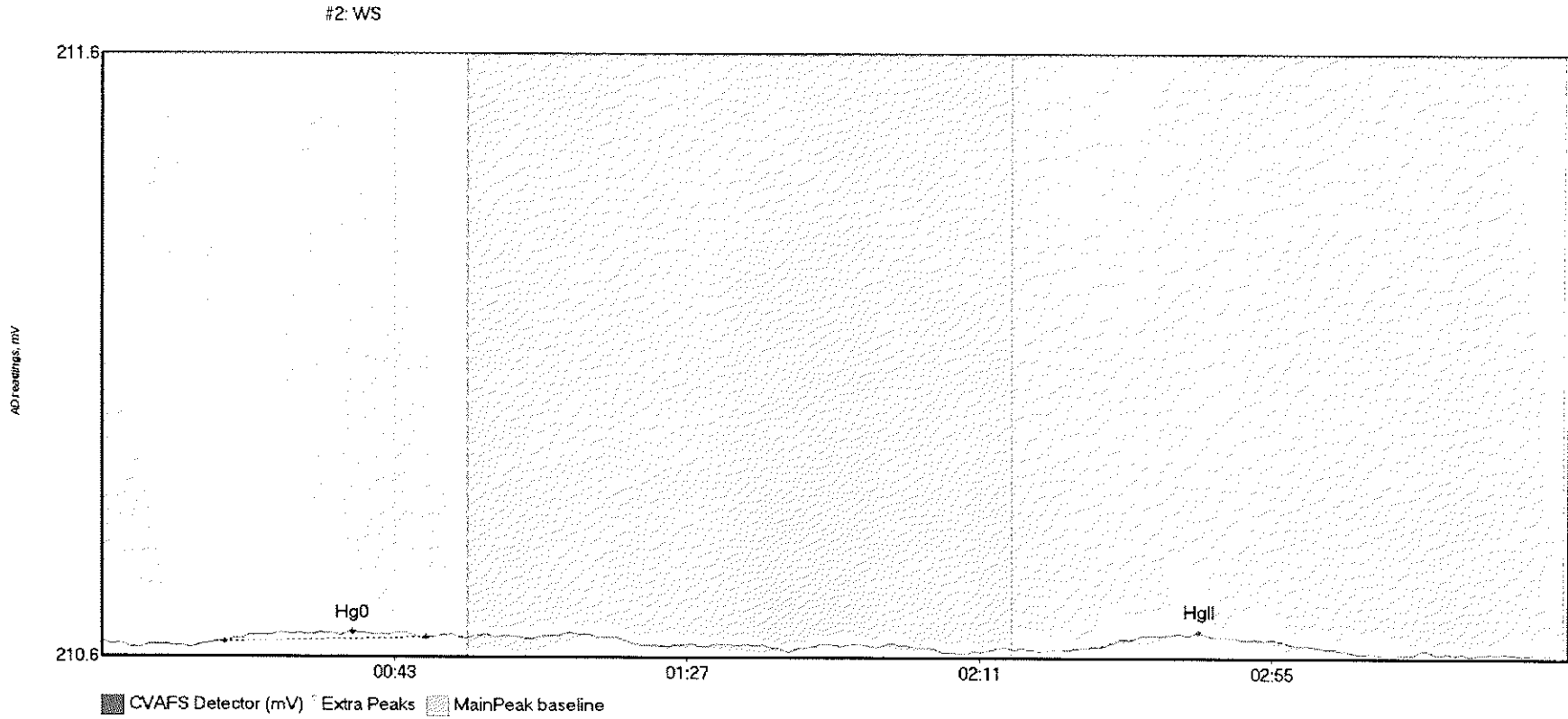
1708151-12RE1	A11	500	25541-1.RAW	21:47:51	10.45	40.42	2220.24	0.00	psample10	CT	1
1708151-13RE1	A12	500	25542-1.RAW	21:58:22	9.35	85.83	1182.63	0.00	psample10	CT	1
1708151-14RE1	A13	500	25543-1.RAW	22:08:53	17.76	104.03	4972.20	0.00	psample10	CT	1
1708151-15RE1	A14	500	25544-1.RAW	22:19:23	11.54	2.85	134.49	0.00	psample10	OK	1
1708151-16RE1	A15	500	25545-1.RAW	22:29:54	4.26	10.95	63.34	0.00	psample10	OK	1
1708151-17RE1	A16	500	25546-1.RAW	22:40:25	2.39	7.43	279.45	0.00	psample10	OK	1
SEQ-CCV6	A17	1	25547-1.RAW	22:50:55	3.05	231.45	8.99	0.00	psample10	OK	1
SEQ-CC86	A18	1	25548-1.RAW	23:01:26	3.99	0.00	9.45	0.00	psample10	CT	1
1708151-18RE1	A19	500	25549-1.RAW	23:11:57	2.57	8.83	309.95	0.00	psample10	CT	1
1708151-19RE1	A20	500	25550-1.RAW	23:22:27	2.57	9.94	454.21	0.00	psample10	CT	1
1708151-20RE1	A21	500	25551-1.RAW	23:32:58	5.19	58.76	762.64	0.00	psample10	OK	1
1708151-21RE1	B1	500	25552-1.RAW	23:43:29	4.71	50.01	413.34	0.00	psample10	OK	1
1708151-22RE1	B2	500	25553-1.RAW	23:53:59	6.26	30.29	1631.09	0.00	psample10	OK	1
1708151-23RE1	B3	500	25554-1.RAW	0:04:30	3.31	24.34	242.99	0.00	psample10	OK	1
SEQ-CCV7	B4	1	25555-1.RAW	0:15:01	3.48	213.97	11.79	0.00	psample10	OK	1
SEQ-CC87	B5	1	25556-1.RAW	0:25:31	4.12	0.00	4.21	0.00	psample10	OK	1



#1: Clean

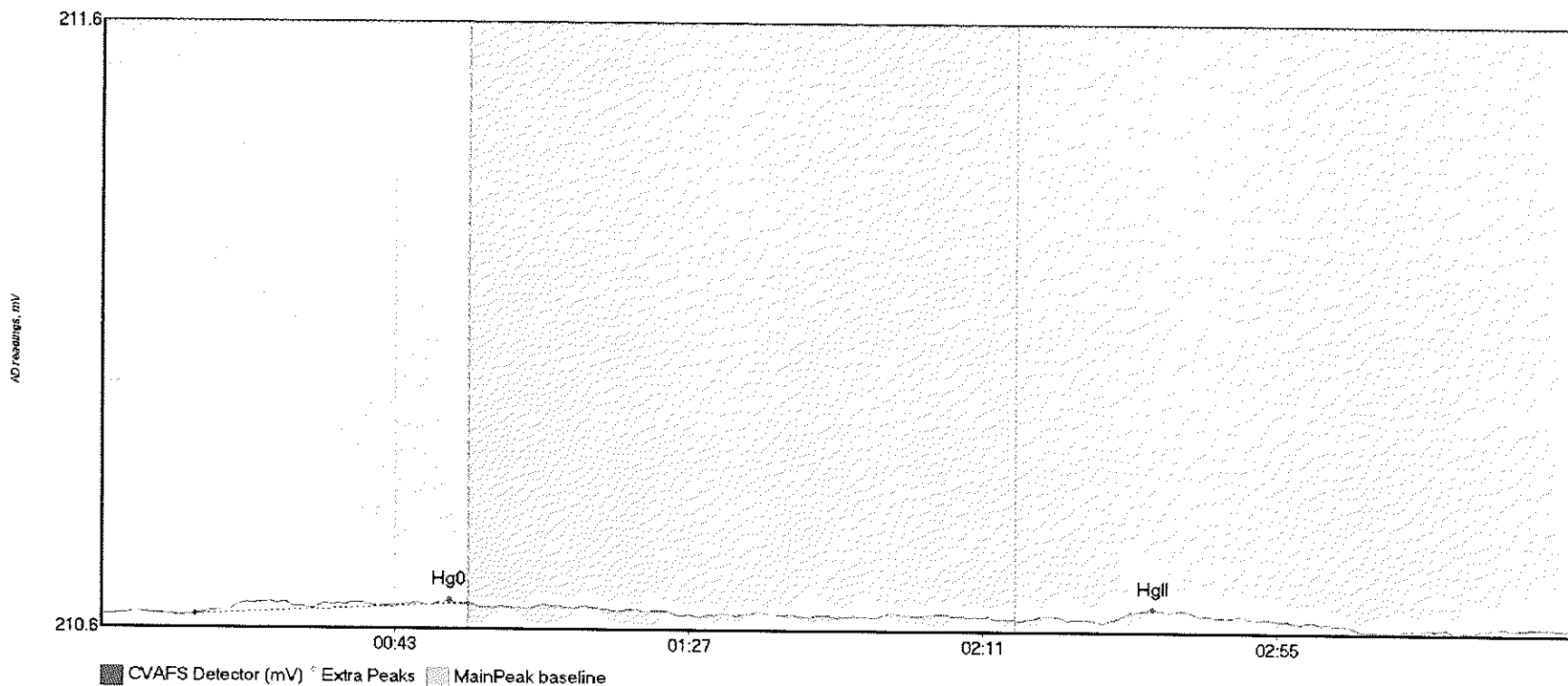


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
Clean MeHg	0.716	117.6	132.5	210.72	210.72	128.1	0.011	OK	210.7544	0.00	-0.01	
Clean HgII	2.471	172.7	219.8	210.73	210.80	219.3	0.074	CT	210.7544	0.00	-0.01	017



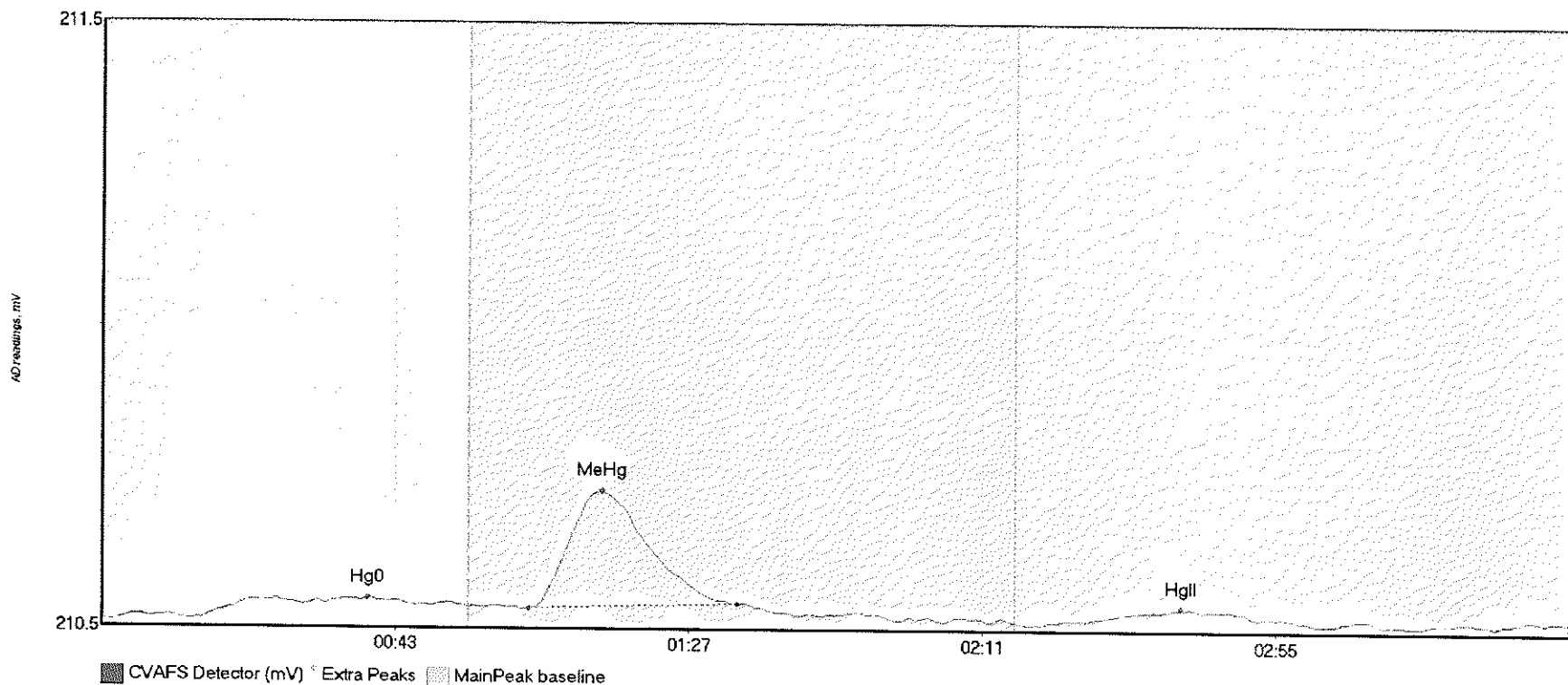
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	2.800	18.5	48.7	210.65	210.65	37.7	0.017	OK	210.6453	0.00	-0.02	
WS HgII	4.372	149.7	182.7	210.64	210.64	165.0	0.024	OK	210.6453	0.00	-0.02	017

#3: SEQ-IBL1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-IBL1 Hg0	2.831	14.0	54.8	210.58	210.59	52.1	0.023	OK	210.5757	0.00	-0.01	
SEQ-IBL1 HgII	1.918	151.5	172.5	210.57	210.58	157.4	0.018	OK	210.5757	0.00	-0.01	017

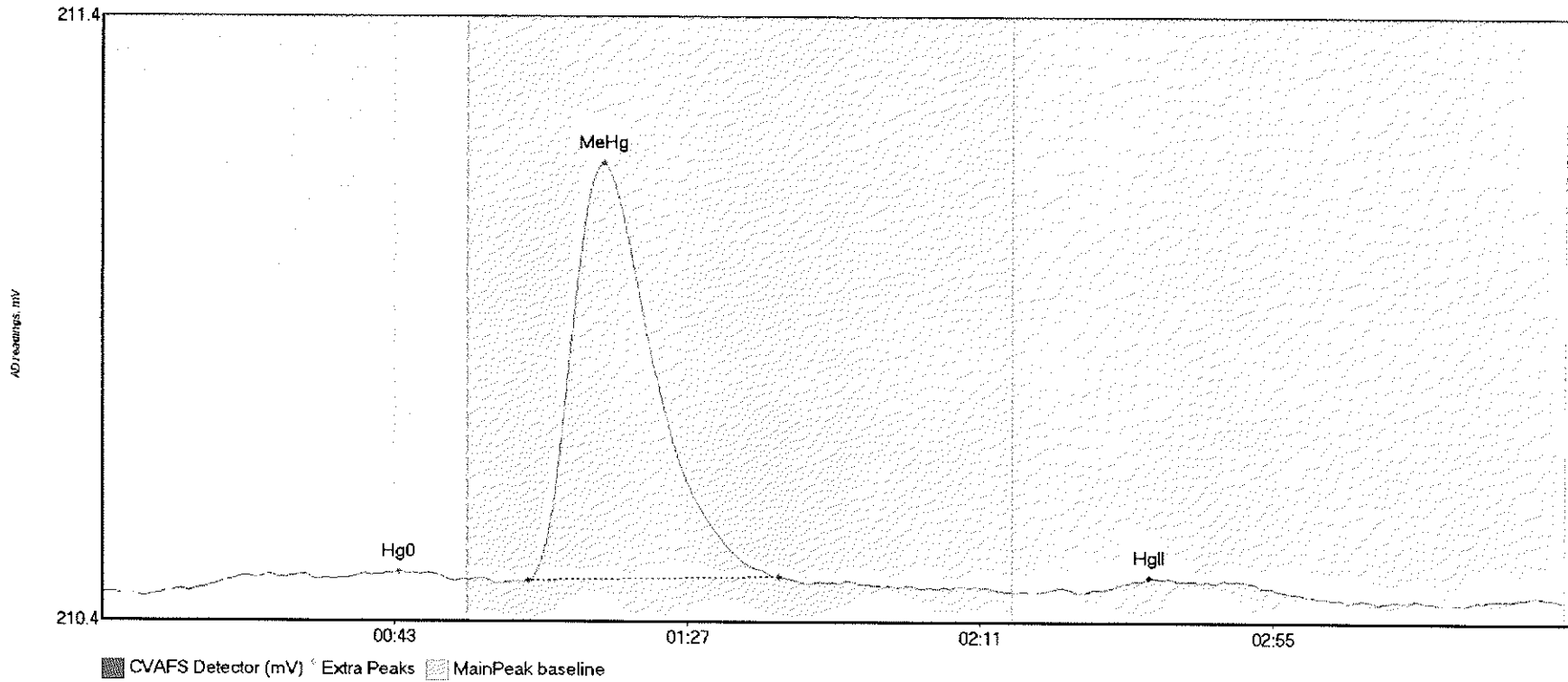
#4: SEQ-CAL1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL1 Hg0	6.097	14.8	54.9	210.50	210.52	39.9	0.034	OK	210.4996	0.00	0.00	
SEQ-CAL1 MeHg	25.602	64.0	95.3	210.52	210.53	75.0	0.193	OK	210.4996	0.00	0.00	
SEQ-CAL1 HgII	3.854	147.5	179.8	210.50	210.50	161.8	0.021	OK	210.4996	0.00	0.00	

017

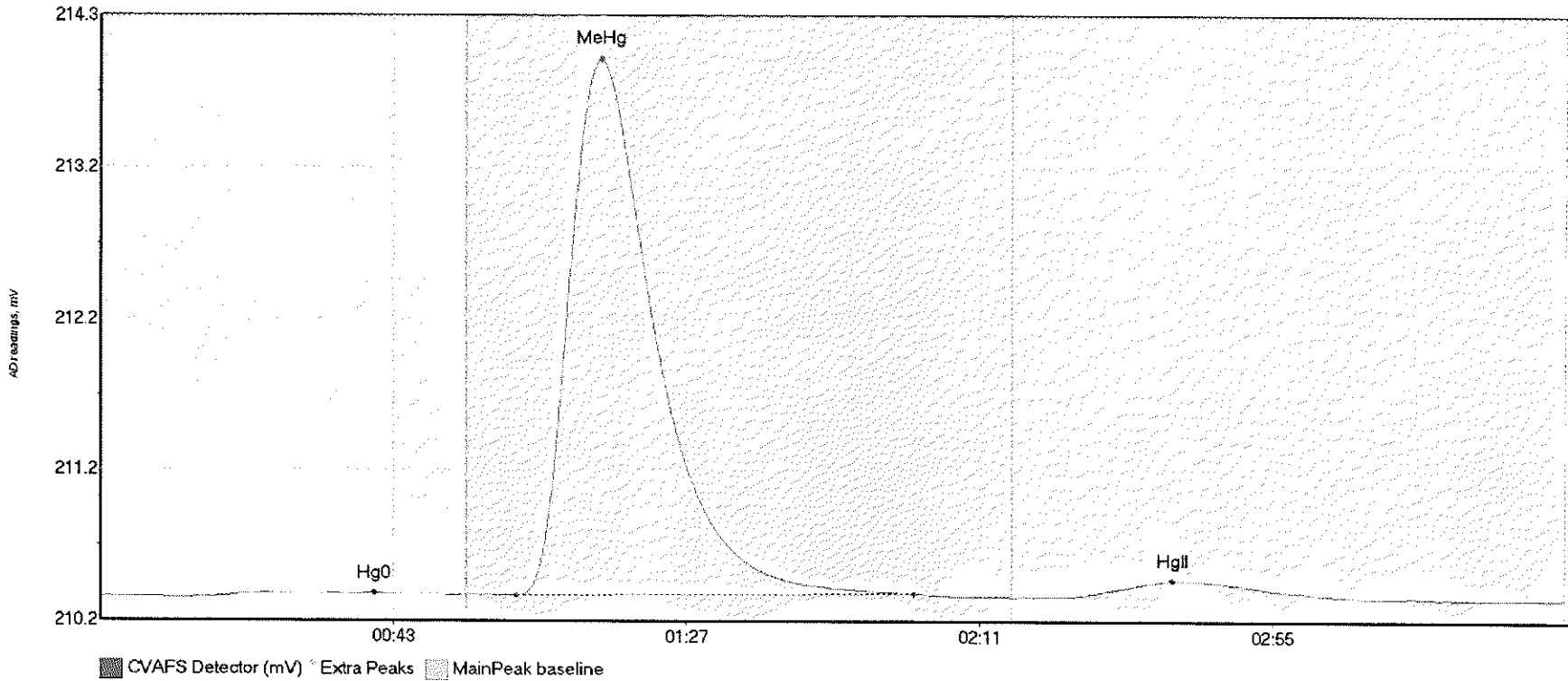
#5: SEQ-CAL2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL2 Hg0	5.571	13.1	53.1	210.41	210.43	44.7	0.032	OK	210.4107	0.00	-0.01	
SEQ-CAL2 MeHg	98.241	64.1	101.7	210.43	210.44	75.4	0.693	OK	210.4107	0.00	-0.01	
SEQ-CAL2 HgII	3.503	150.2	177.0	210.42	210.41	157.4	0.020	OK	210.4107	0.00	-0.01	

017

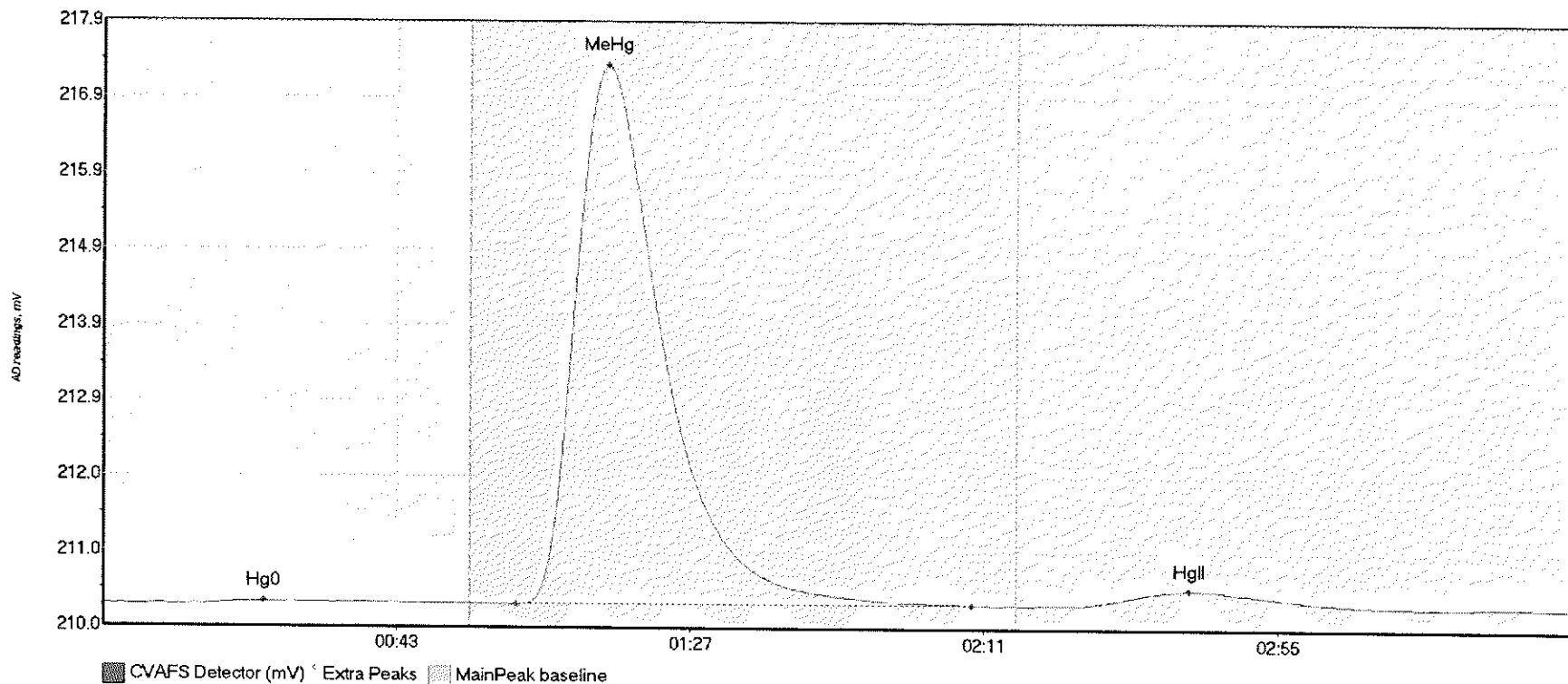
#6: SEQ-CAL3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL3 Hg0	4.429	16.6	53.1	210.35	210.36	41.1	0.024	OK	210.3532	0.00	-0.01	
SEQ-CAL3 MeHg	540.765	62.5	122.1	210.36	210.37	75.3	3.613	OK	210.3532	0.00	-0.01	
SEQ-CAL3 HgII	24.688	145.6	189.9	210.36	210.34	161.0	0.106	OK	210.3532	0.00	-0.01	

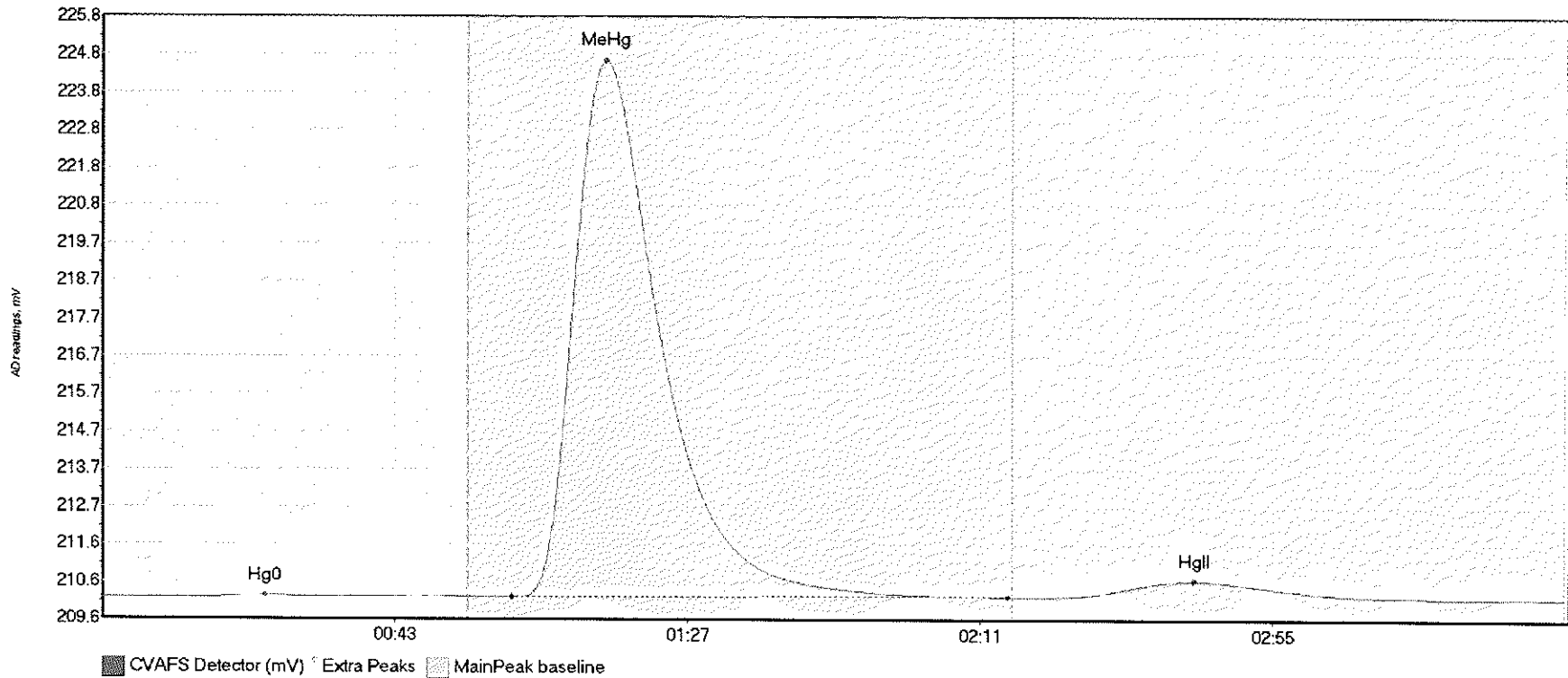
017

#7: SEQ-CAL4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL4 Hg0	6.516	15.1	53.7	210.27	210.29	24.2	0.037	OK	210.2788	0.00	-0.02	
SEQ-CAL4 MeHg	1065.471	61.8	130.1	210.28	210.29	75.6	7.050	OK	210.2788	0.00	-0.02	
SEQ-CAL4 HgII	44.514	144.6	189.5	210.29	210.29	162.8	0.203	OK	210.2788	0.00	-0.02	

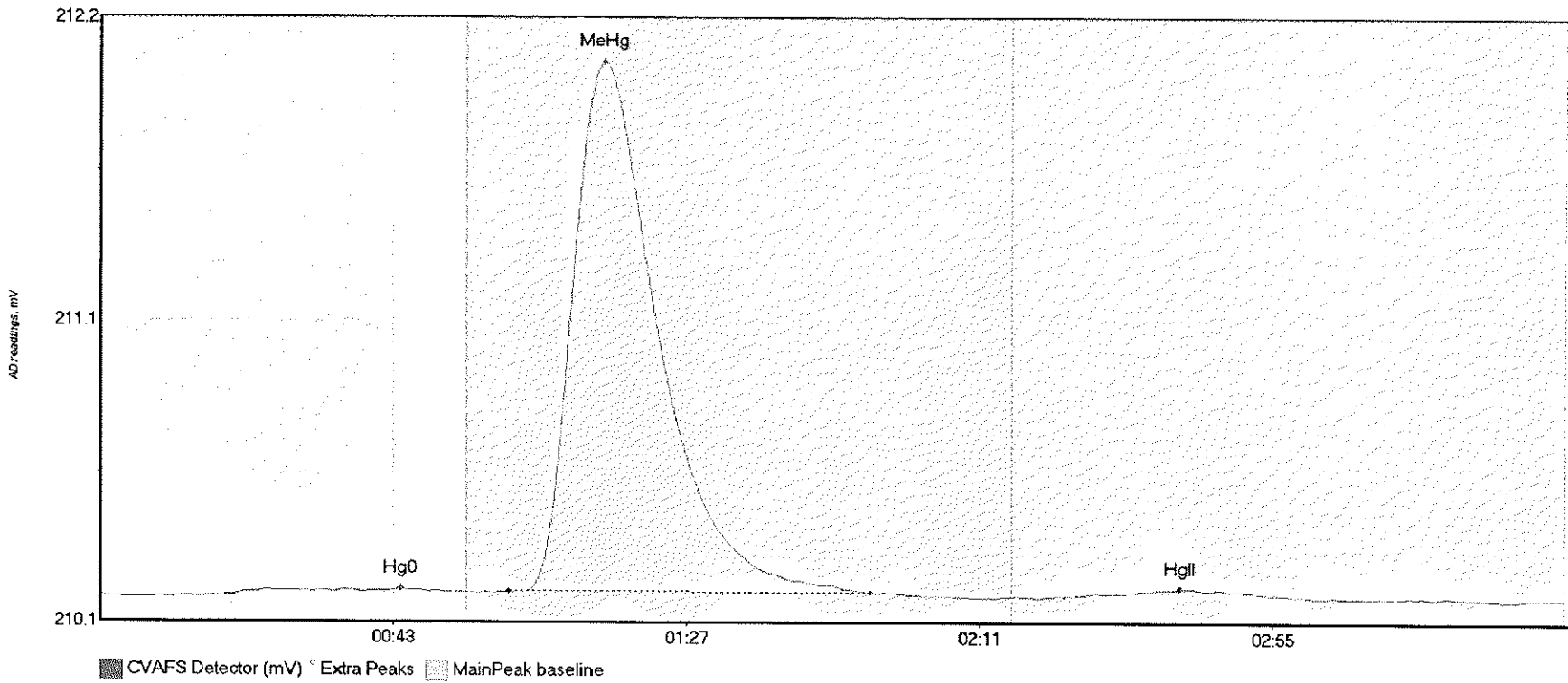
#8: SEQ-CAL5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL5 Hg0	9.230	9.2	49.7	210.20	210.23	24.5	0.053	OK	210.2013	0.00	0.02	
SEQ-CAL5 MeHg	2180.618	61.6	136.2	210.23	210.24	75.8	14.423	OK	210.2013	0.00	0.02	
SEQ-CAL5 HgII	101.721	142.1	195.2	210.24	210.23	164.2	0.431	OK	210.2013	0.00	0.02	



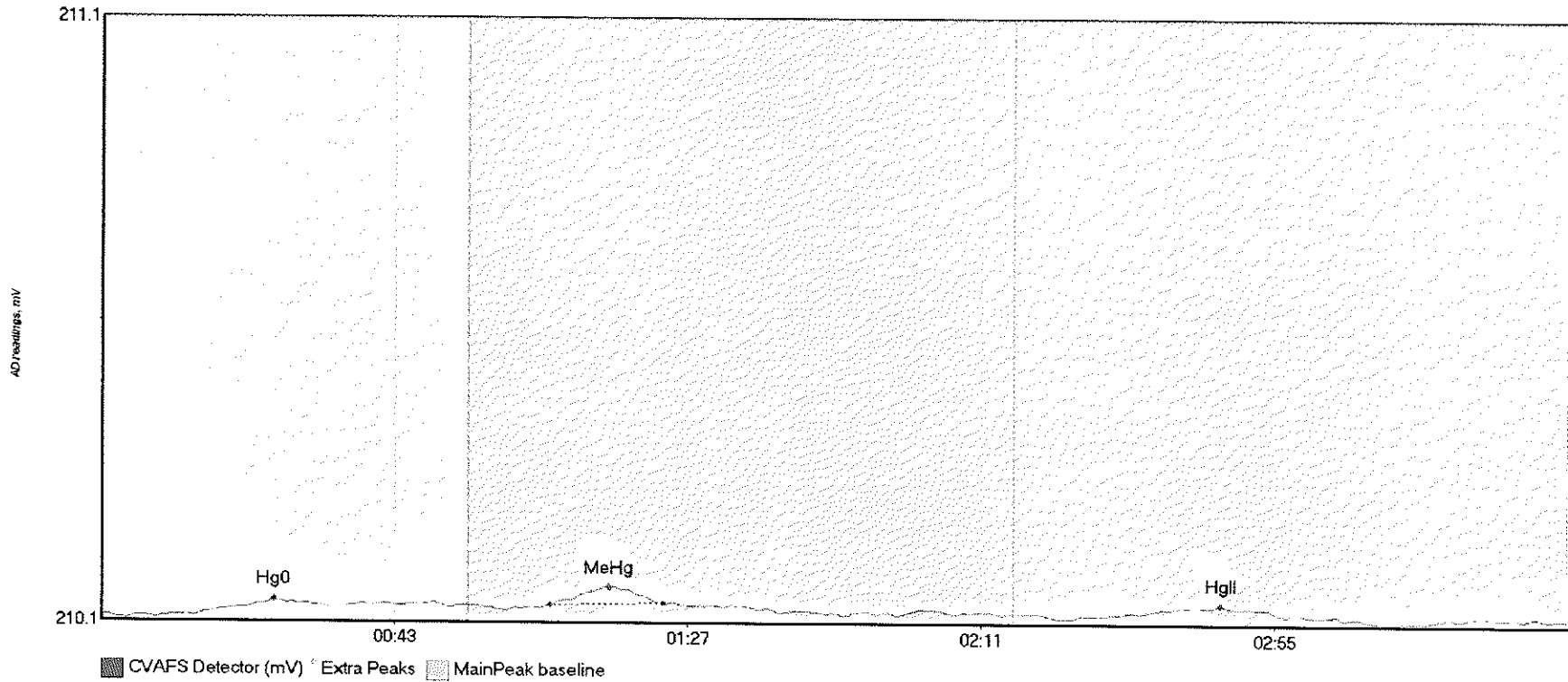
#9: SEQ-ICV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICV1 Hg0	3.091	19.5	53.0	210.17	210.17	45.1	0.021	OK	210.1614	0.00	-0.01	
SEQ-ICV1 MeHg	270.822	61.3	115.7	210.18	210.17	75.8	1.827	OK	210.1614	0.00	-0.01	
SEQ-ICV1 HgII	3.928	147.1	177.5	210.16	210.16	162.1	0.024	OK	210.1614	0.00	-0.01	

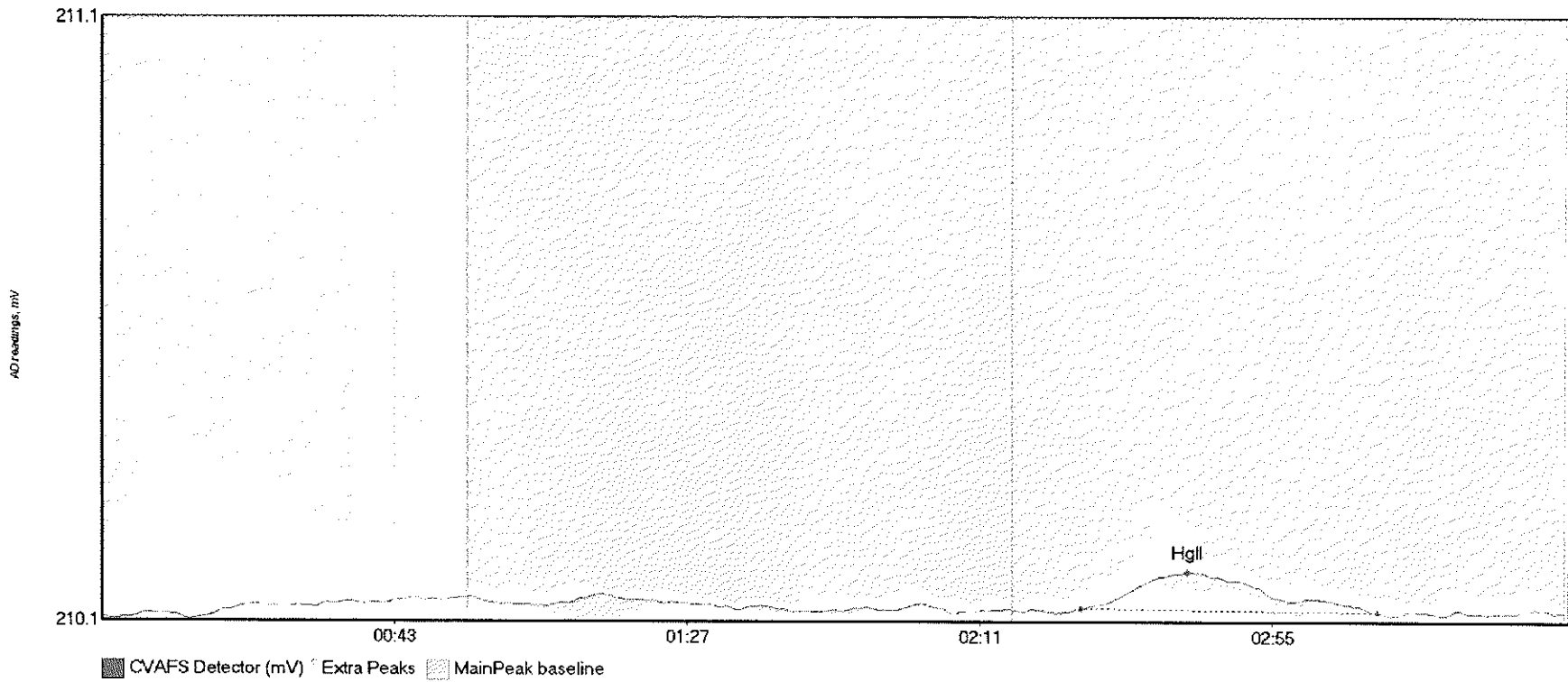
017

#10: SEQ-ICB1



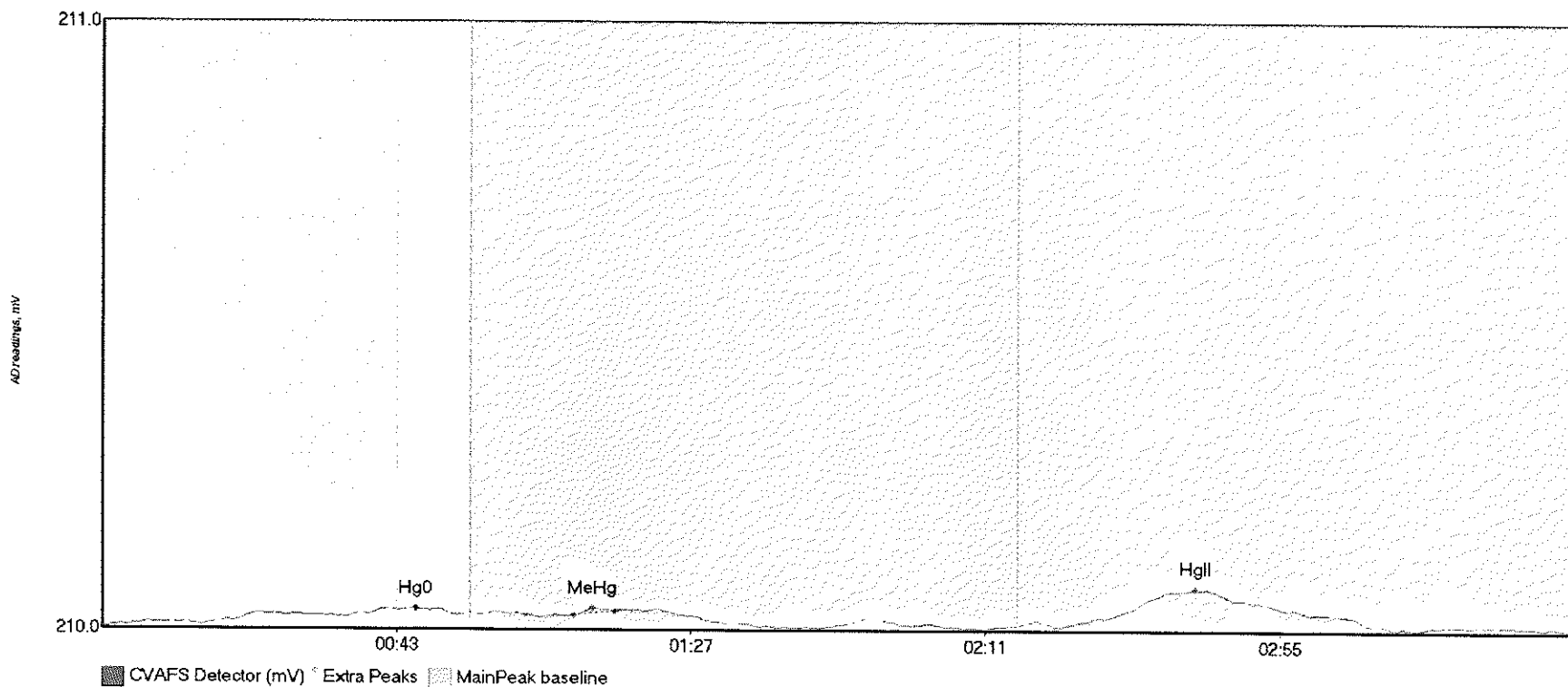
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICB1 Hg0	3.859	13.9	52.2	210.11	210.13	25.8	0.025	OK	210.1141	0.00	0.00	
SEQ-ICB1 MeHg	2.729	67.3	84.3	210.13	210.13	76.1	0.031	OK	210.1141	0.00	0.00	
SEQ-ICB1 HgII	1.927	156.2	177.2	210.12	210.12	167.9	0.014	OK	210.1141	0.00	0.00	

#11: F708524-BLK1



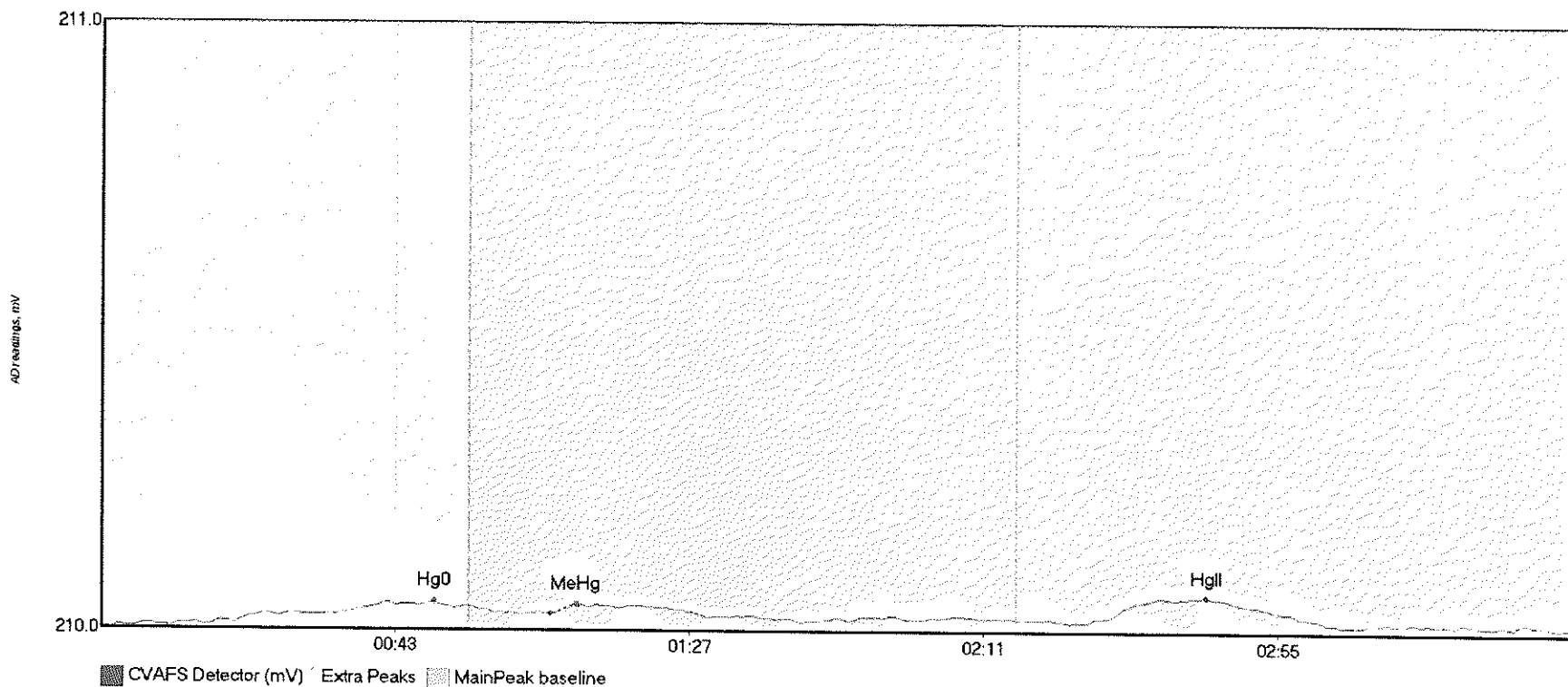
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708524-BLK1	14.161	147.1	191.8	210.09	210.08	163.2	0.061	OK	210.0735	0.00	0.01	017

#12: F708524-BLK2



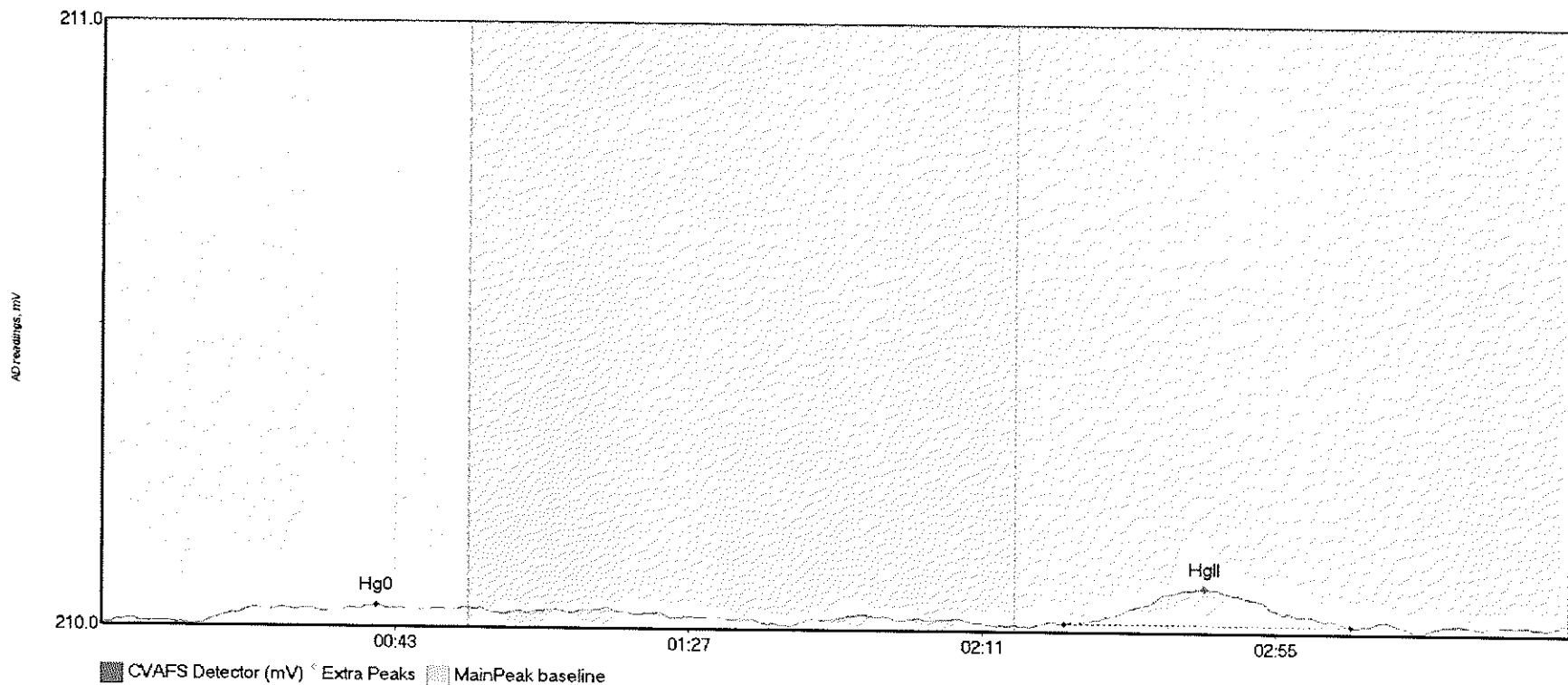
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708524-BLK2 Hg	3.578	14.9	53.0	210.05	210.07	46.8	0.028	OK	210.0507	0.00	0.00	
F708524-BLK2 Me	0.251	70.5	76.6	210.07	210.08	73.3	0.012	OK	210.0507	0.00	0.00	
F708524-BLK2 Hg	13.937	145.0	190.6	210.06	210.05	163.3	0.059	OK	210.0507	0.00	0.00	

#13: F708524-BLK3



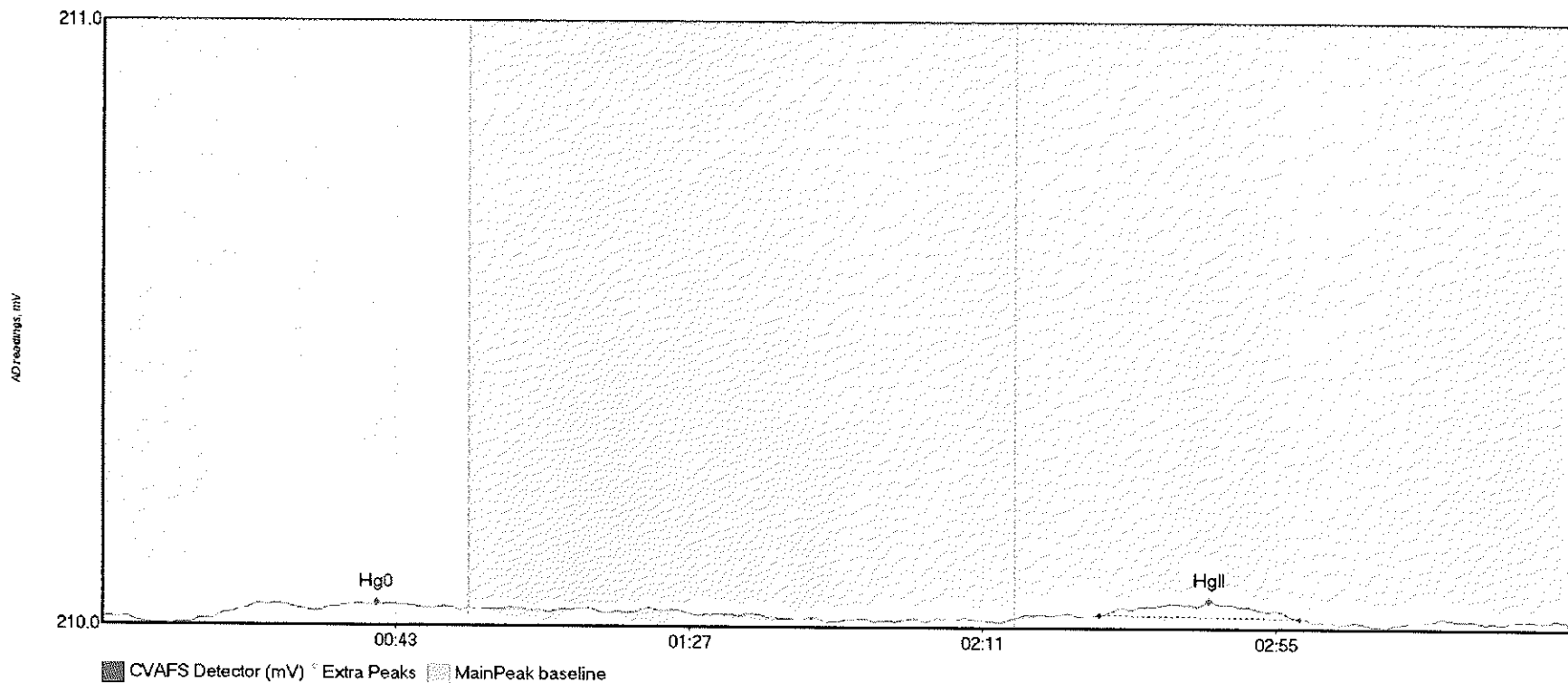
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708524-BLK3 Hg	2.897	16.0	53.0	210.03	210.06	49.8	0.039	OK	210.0267	0.00	0.01	
F708524-BLK3 Me	0.046	67.2	71.3	210.05	210.07	71.0	0.015	OK	210.0267	0.00	0.01	
F708524-BLK3 Hg	6.890	150.4	180.7	210.05	210.04	165.3	0.035	OK	210.0267	0.00	0.01	

#14: \*F708524-BLK4



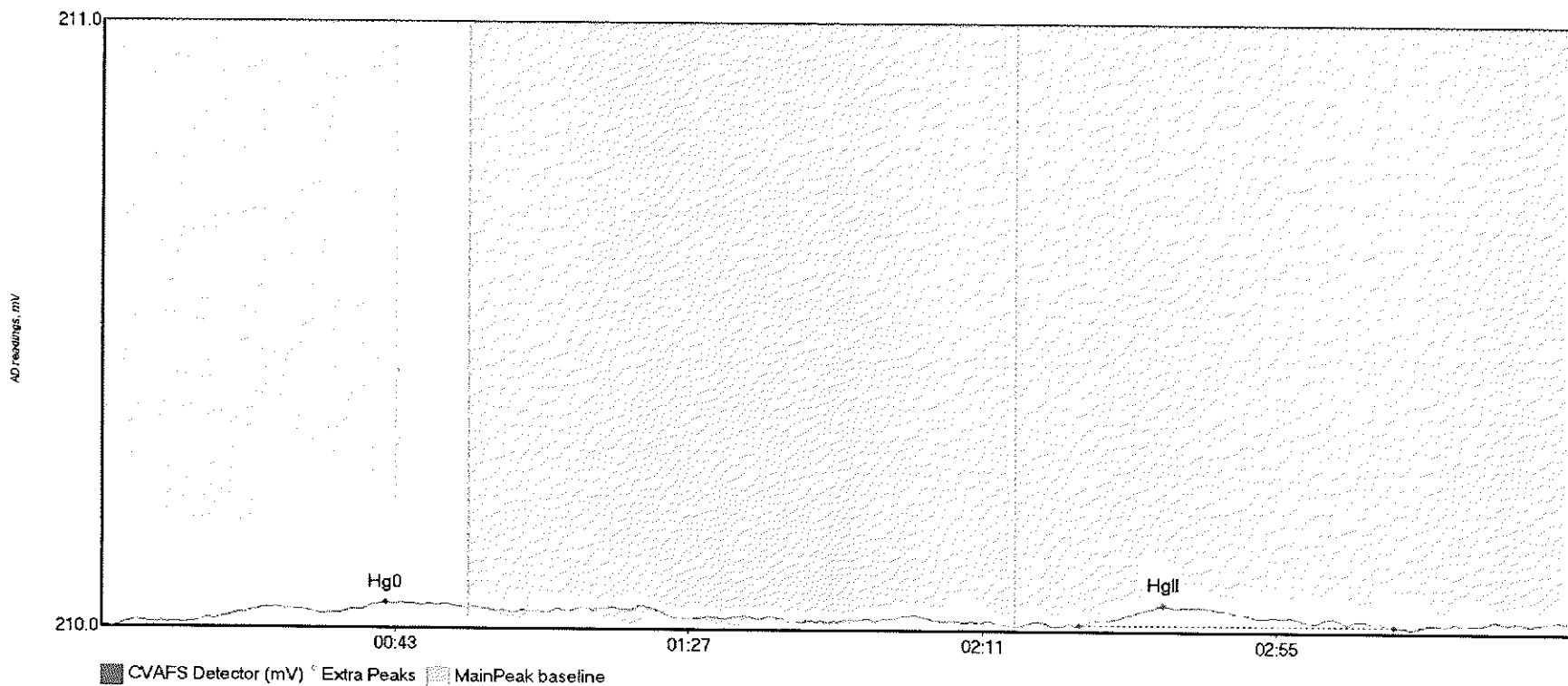
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
*F708524-BLK4 H	3.443	15.2	47.9	210.02	210.04	41.2	0.030	OK	210.0161	0.00	0.01	
*F708524-BLK4 H	12.474	144.3	187.3	210.03	210.02	165.3	0.060	OK	210.0161	0.00	0.01	017

#15: \*F708524-BLK5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
*F708524-BLK5 H	4.716	16.0	53.8	210.01	210.02	41.2	0.027	OK	210.0123	0.00	0.00	
*F708524-BLK5 H	4.735	149.6	179.4	210.02	210.01	166.1	0.023	OK	210.0123	0.00	0.00	317

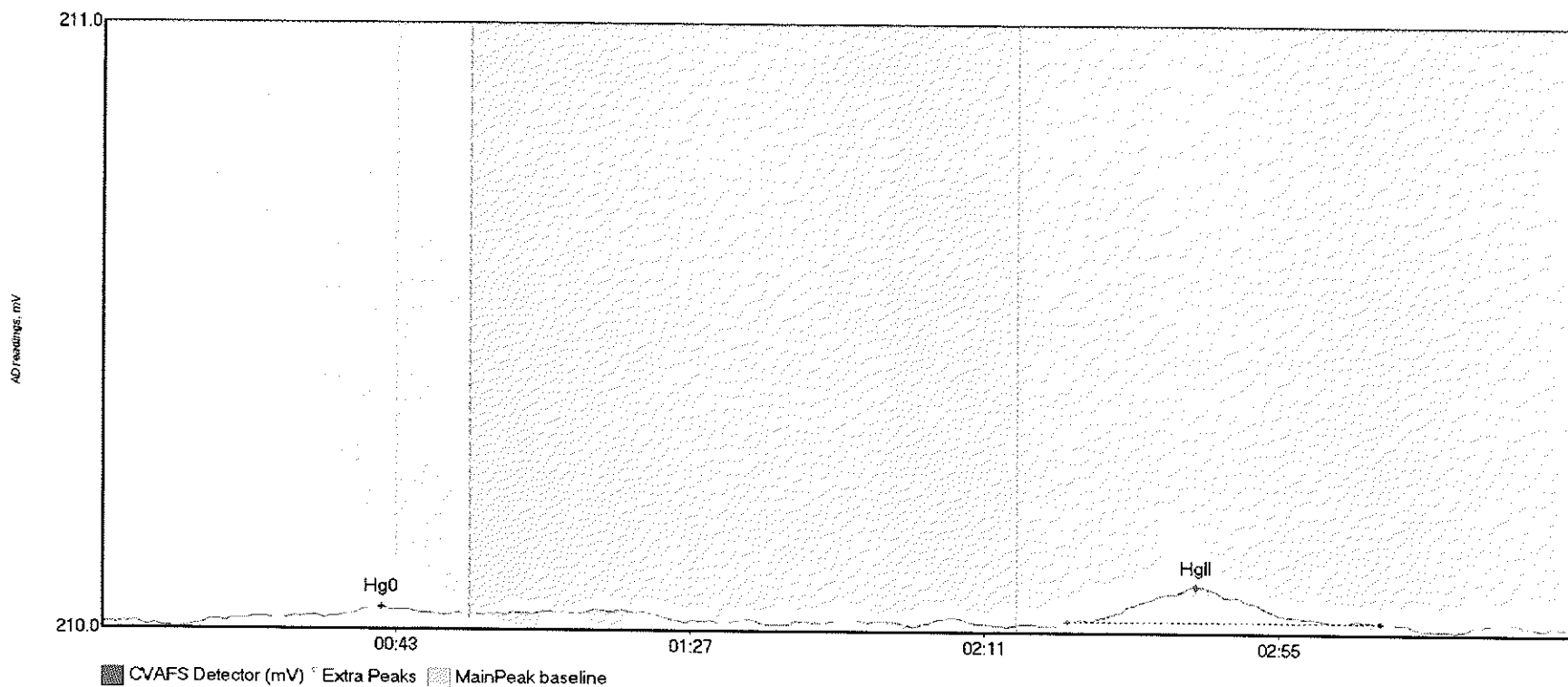
#16: \*F708524-BLK6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
*F708524-BLK6 H	3.883	12.1	54.9	210.00	210.03	42.6	0.035	OK	209.9949	0.00	0.02	
*F708524-BLK6 H	7.793	146.5	193.6	210.00	210.00	159.0	0.034	OK	209.9949	0.00	0.02	017

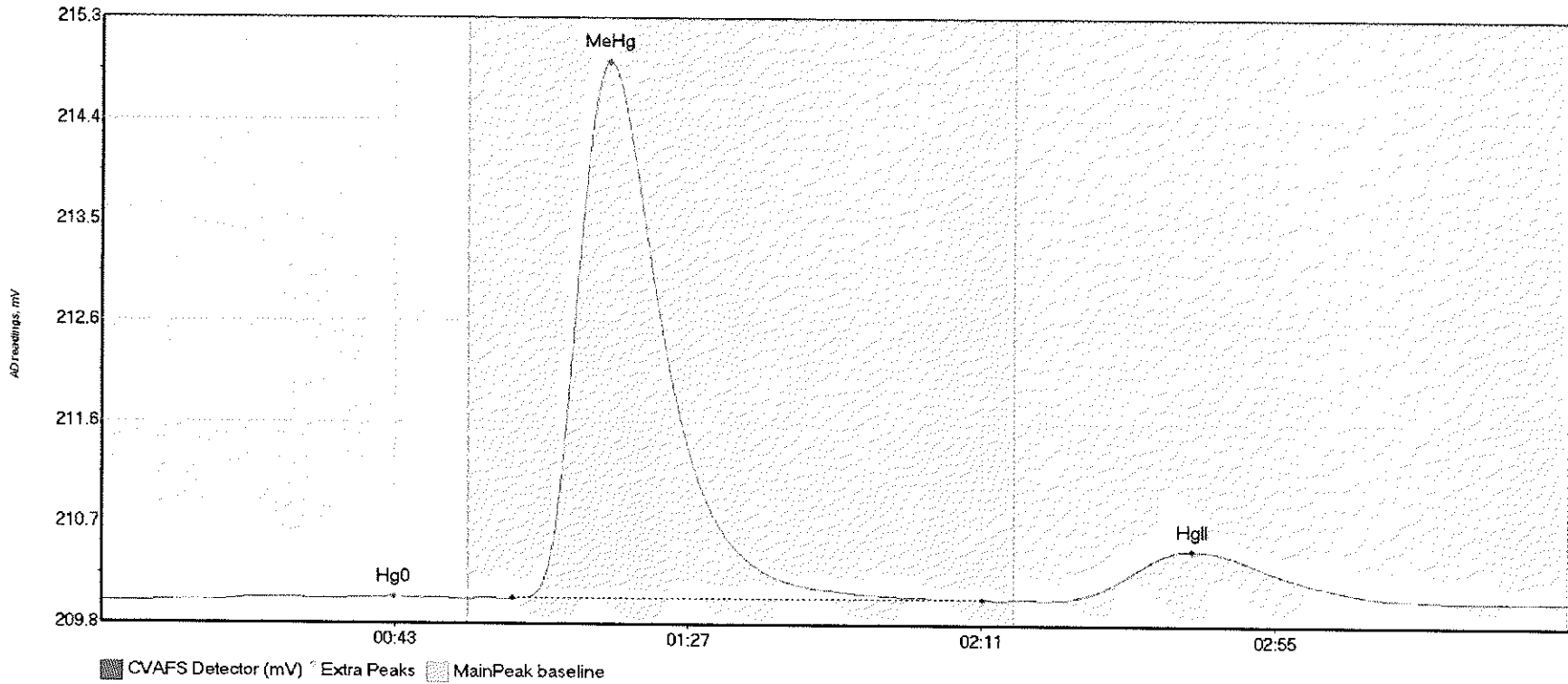


#17: \*F708524-BLK7



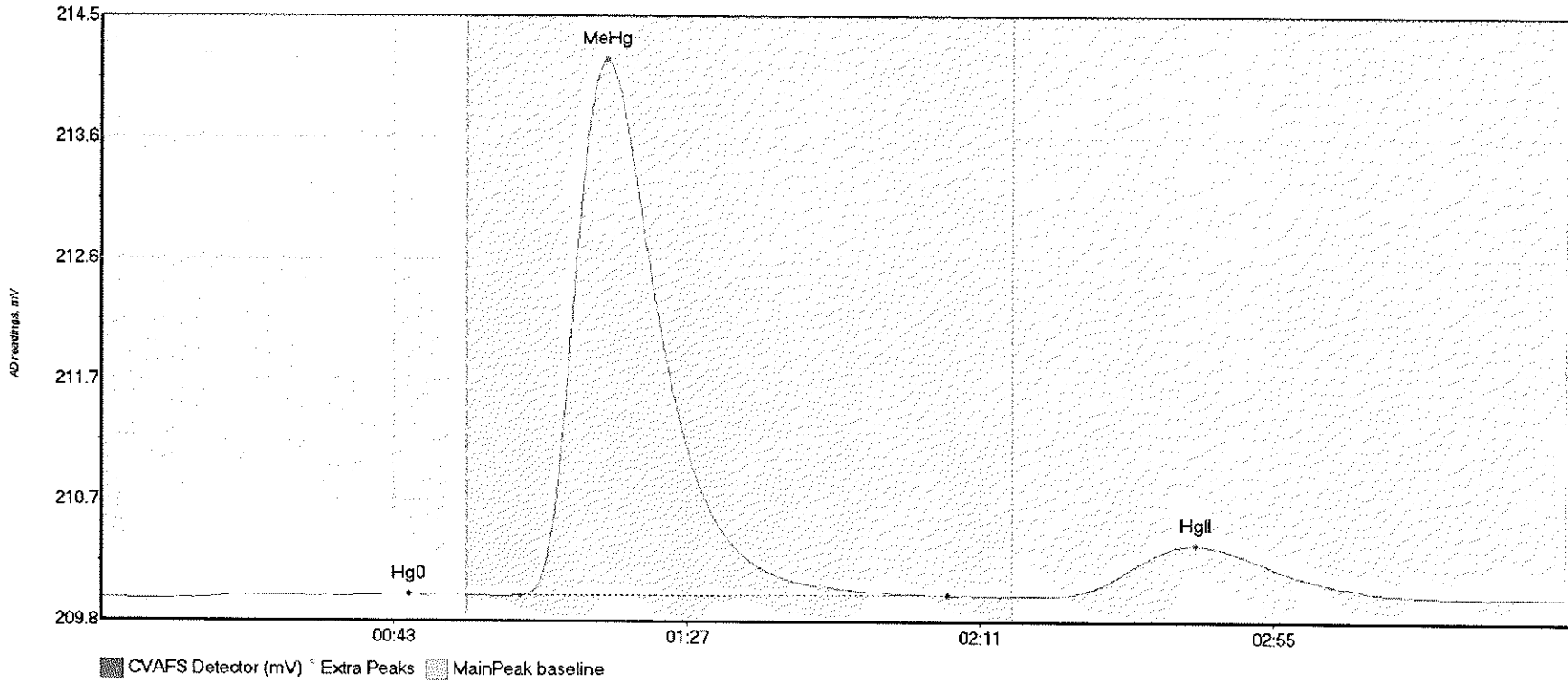
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
*F708524-BLK7 H	1.963	18.3	51.1	210.00	210.01	41.9	0.023	OK	209.9949	0.00	0.00	
*F708524-BLK7 H	10.686	144.4	191.2	210.00	210.00	163.6	0.061	OK	209.9949	0.00	0.00	017

#18: F708524-BS1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708524-BS1 Hg0	5.283	7.7	54.3	209.98	210.00	43.8	0.038	OK	209.9775	0.00	0.03	
F708524-BS1 MeH	740.557	61.7	132.1	210.01	210.01	76.2	4.926	OK	209.9775	0.00	0.03	
F708524-BS1 HgI	109.009	143.7	199.2	210.01	210.01	163.6	0.452	OK	209.9775	0.00	0.03	

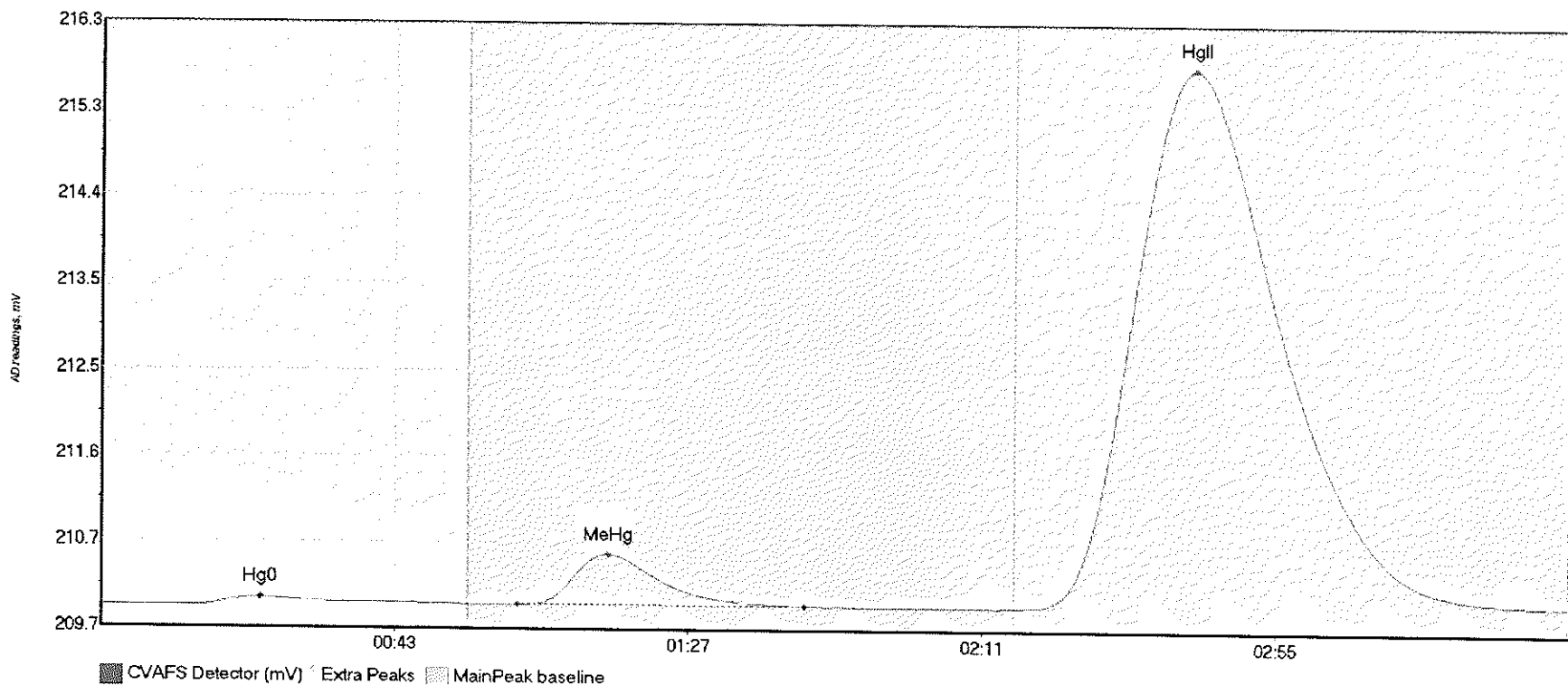
#19: F708524-BSD1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708524-BSD1 Hg	2.997	14.6	48.5	209.97	210.00	46.3	0.034	OK	209.9760	0.00	0.01	
F708524-BSD1 Me	634.815	63.0	127.1	210.00	210.00	76.0	4.211	OK	209.9760	0.00	0.01	
F708524-BSD1 Hg	96.093	142.3	197.6	209.99	210.00	164.3	0.403	OK	209.9760	0.00	0.01	

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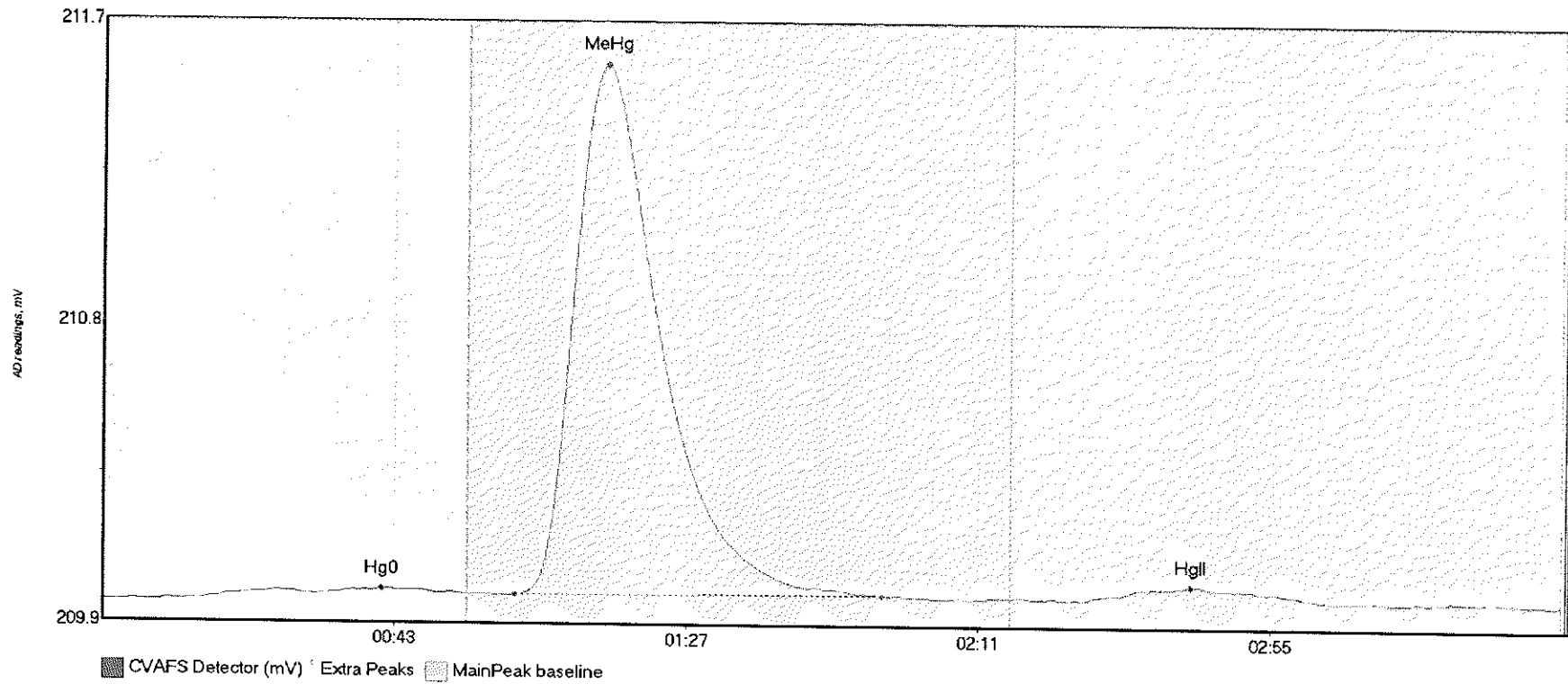
#20: F708524-DUP1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
F708524-DUP1 Hg	14.908	14.6	54.8	209.97	209.99	23.8	0.088	OK	209.9708	0.00	0.06	
F708524-DUP1 Me	80.483	62.5	105.4	209.99	209.99	76.0	0.547	OK	209.9708	0.00	0.06	
F708524-DUP1 Hg	1441.997	139.4	217.2	209.99	210.03	163.7	5.821	OK	209.9708	0.00	0.06	

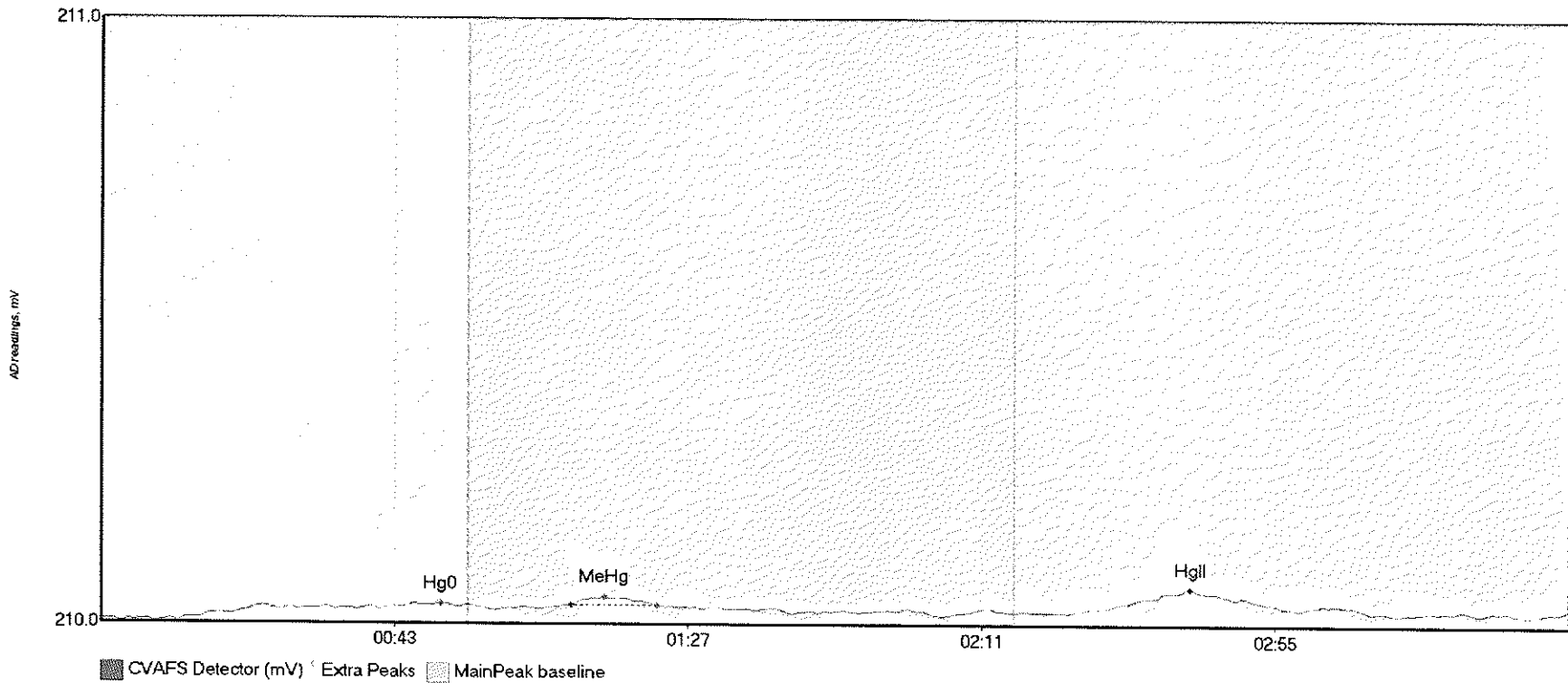
017

#21: SEQ-CCV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0	5.232	14.8	55.0	209.97	209.99	42.2	0.033	CT	209.9660	0.00	0.01	
SEQ-CCV1 MeHg	237.759	62.2	117.5	209.99	209.99	75.9	1.596	OK	209.9660	0.00	0.01	
SEQ-CCV1 HgII	6.190	149.8	181.2	209.99	209.99	164.0	0.035	OK	209.9660	0.00	0.01	

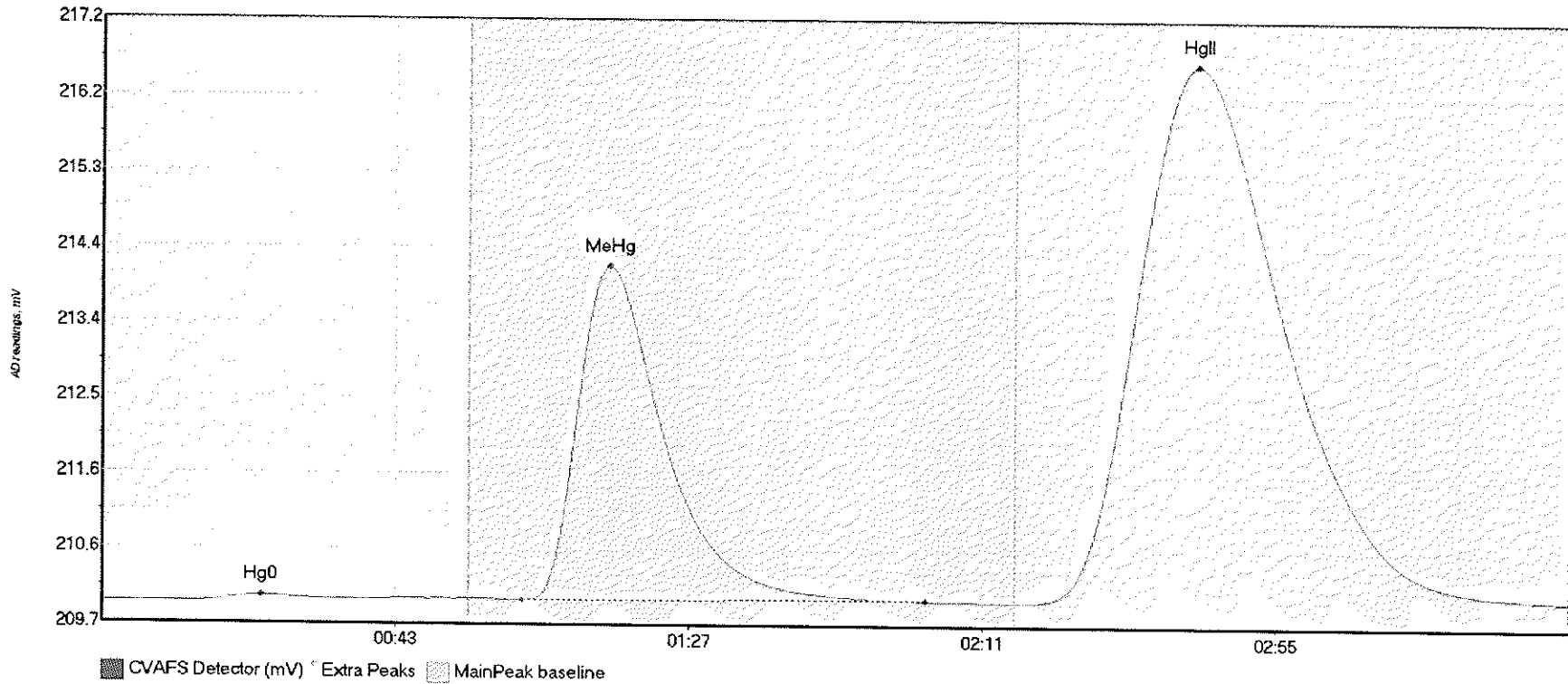
#22: SEQ-CCB1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB1 Hg0	2.544	14.4	53.2	209.96	209.98	50.8	0.025	OK	209.9583	0.00	0.02	
SEQ-CCB1 MeHg	1.165	70.4	83.3	209.98	209.98	75.5	0.013	OK	209.9583	0.00	0.02	
SEQ-CCB1 HgII	5.237	149.6	179.3	209.98	209.98	163.3	0.034	OK	209.9583	0.00	0.02	

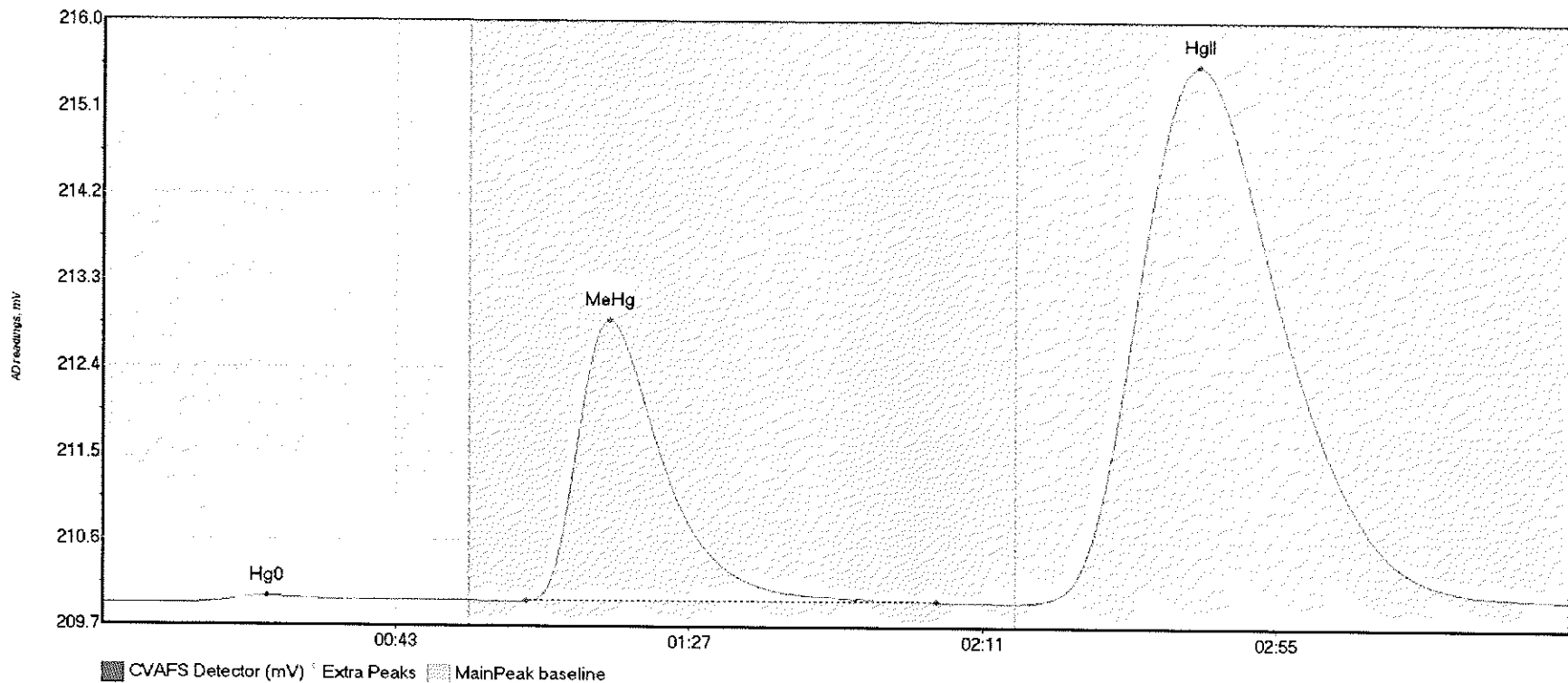
017

#23: F708524-MS1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708524-MS1 Hg0	6.667	14.3	39.9	209.96	209.99	23.9	0.071	OK	209.9601	0.00	0.07	
F708524-MS1 MeH	616.777	63.0	123.4	209.99	210.00	76.2	4.138	OK	209.9601	0.00	0.07	
F708524-MS1 HgI	1657.291	138.9	219.7	209.98	210.03	164.1	6.664	OK	209.9601	0.00	0.07	

#24: F708524-MSD1

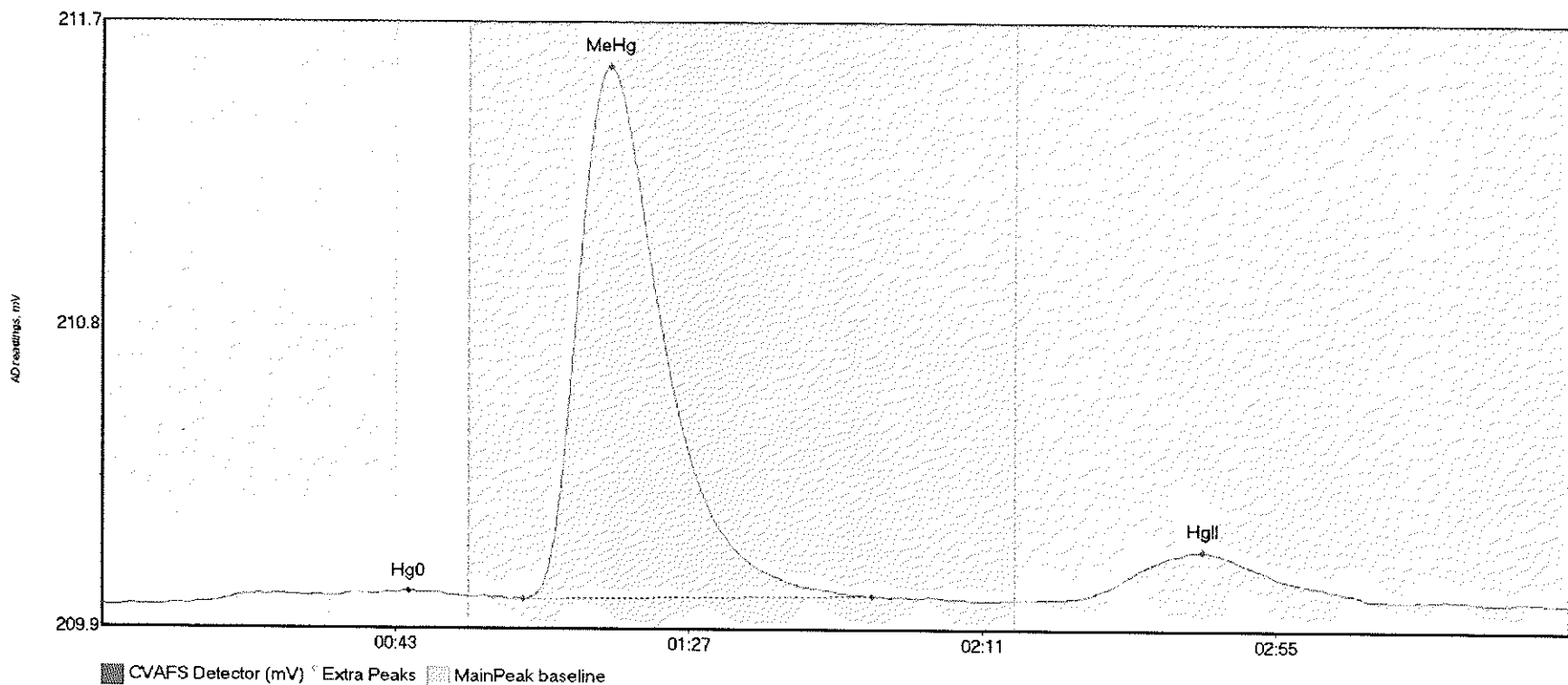


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708524-MSD1 Hg	9.269	13.6	53.1	209.97	210.00	24.7	0.069	OK	209.9636	0.00	0.07	
F708524-MSD1 Me	436.947	63.6	125.2	210.00	210.00	76.1	2.915	OK	209.9636	0.00	0.07	
F708524-MSD1 Hg	1391.784	136.8	219.7	209.98	210.03	164.2	5.582	OK	209.9636	0.00	0.07	

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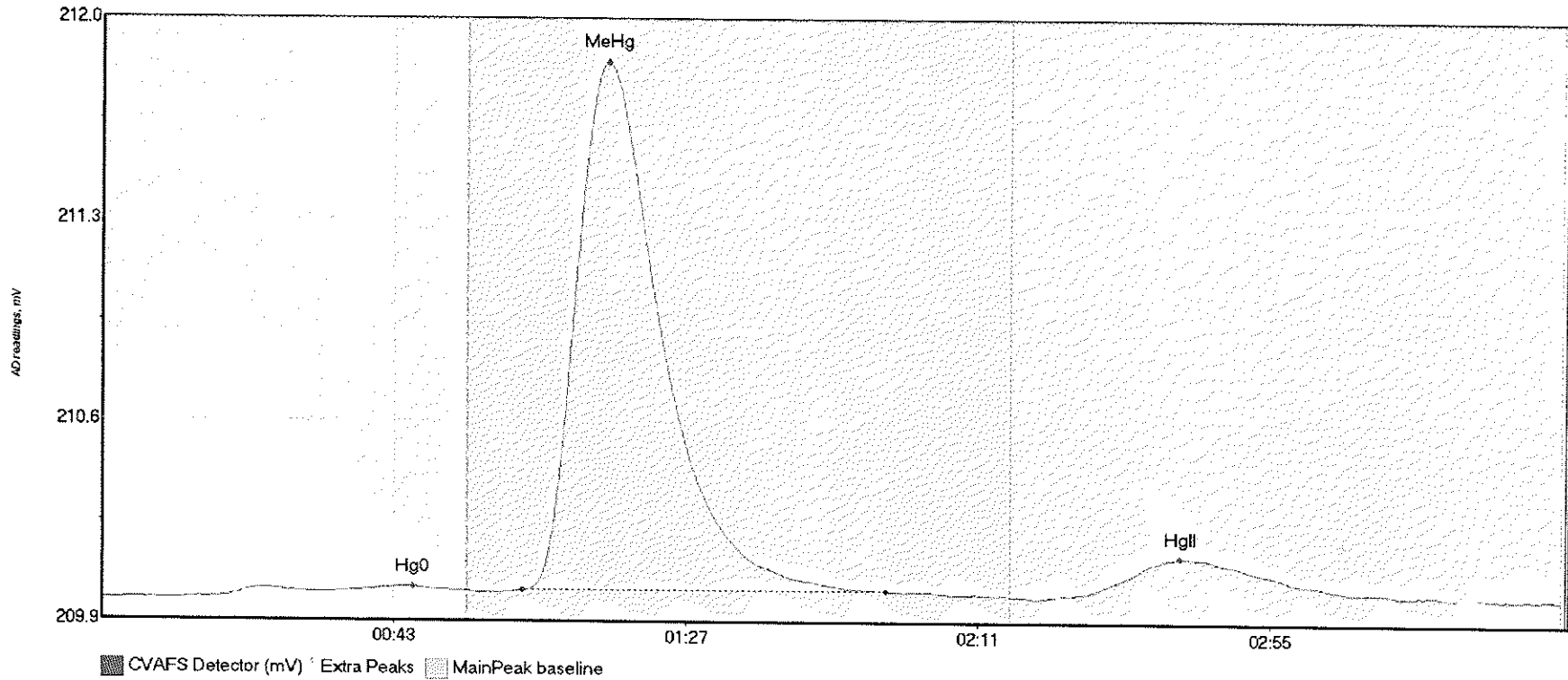
#25: F708524-MS2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708524-MS2 Hg0	6.445	12.9	55.0	209.97	209.99	46.0	0.040	CT	209.9656	0.00	0.01	
F708524-MS2 MeH	235.885	63.2	115.4	209.99	210.00	76.2	1.597	OK	209.9656	0.00	0.01	
F708524-MS2 HgI	31.770	145.5	190.3	209.99	209.99	165.1	0.143	OK	209.9656	0.00	0.01	

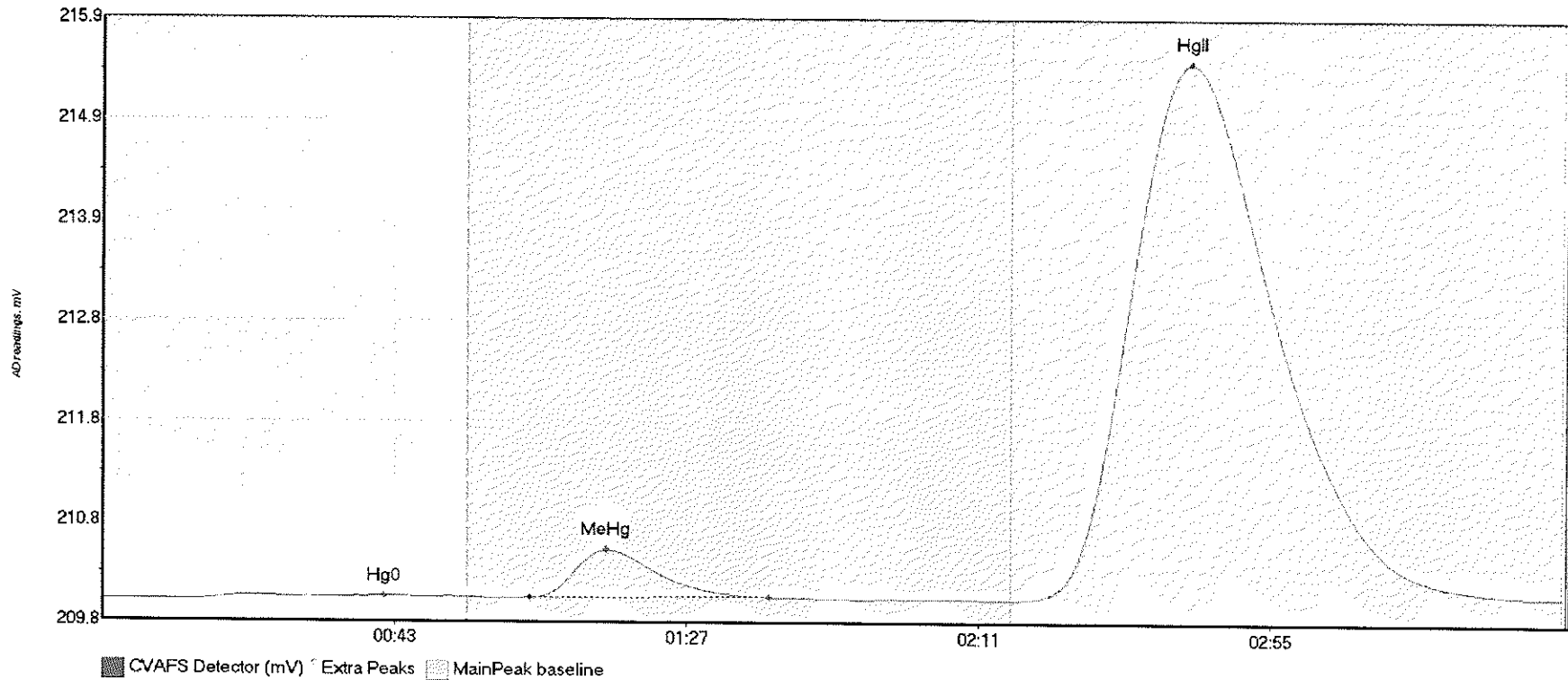
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#26: F708524-MSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708524-MSD2 Hg	5.317	15.8	53.7	209.97	210.00	46.8	0.041	OK	209.9681	0.00	0.01	
F708524-MSD2 Me	276.465	63.3	118.1	210.00	210.00	76.1	1.862	OK	209.9681	0.00	0.01	
F708524-MSD2 Hg	31.920	146.0	202.8	209.99	209.98	162.5	0.136	OK	209.9681	0.00	0.01	

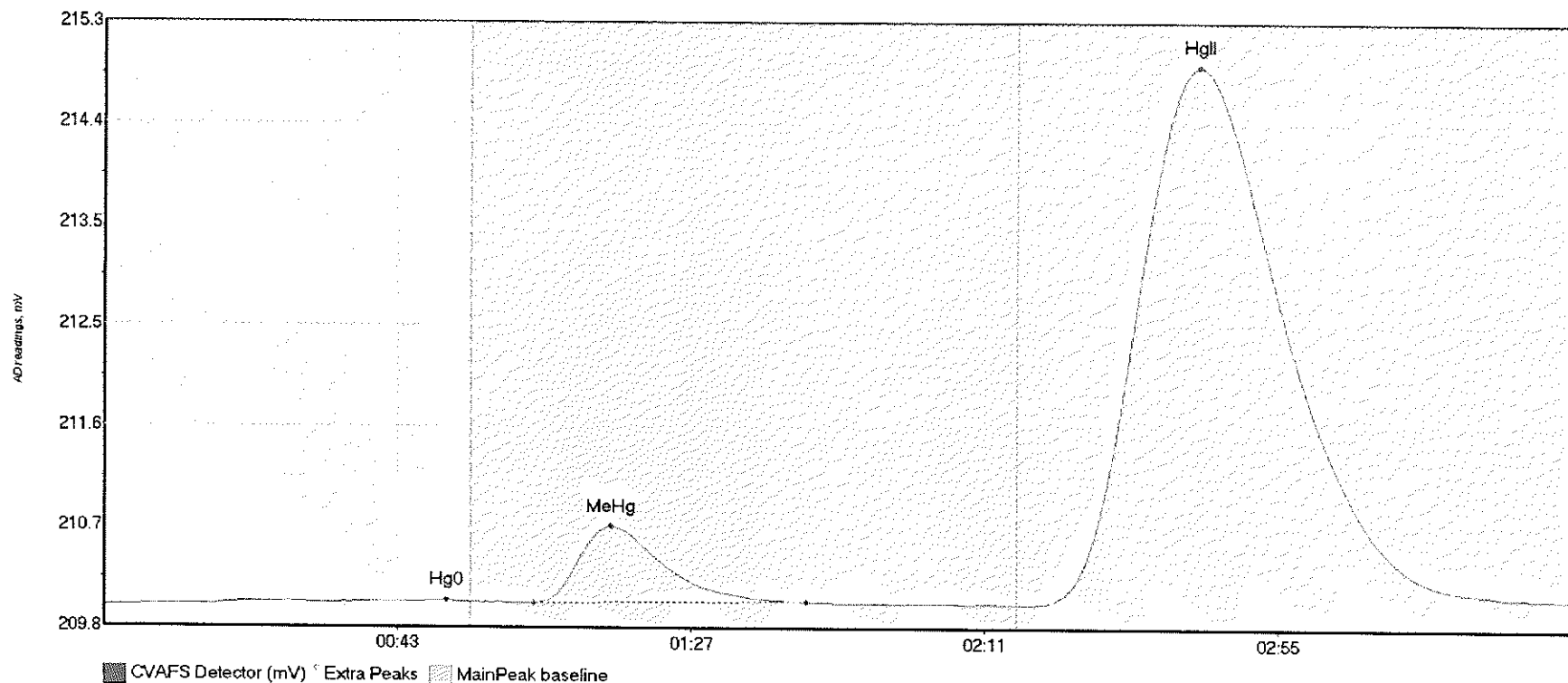
#27: 1708155-06



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708155-06 Hg0	6.253	14.9	55.0	209.98	210.01	42.4	0.036	CT	209.9781	0.00	0.06	
1708155-06 MeHg	68.713	64.5	100.5	210.00	210.01	75.9	0.492	OK	209.9781	0.00	0.06	
1708155-06 HgII	1363.671	136.8	219.8	209.99	210.03	163.9	5.500	CT	209.9781	0.00	0.06	

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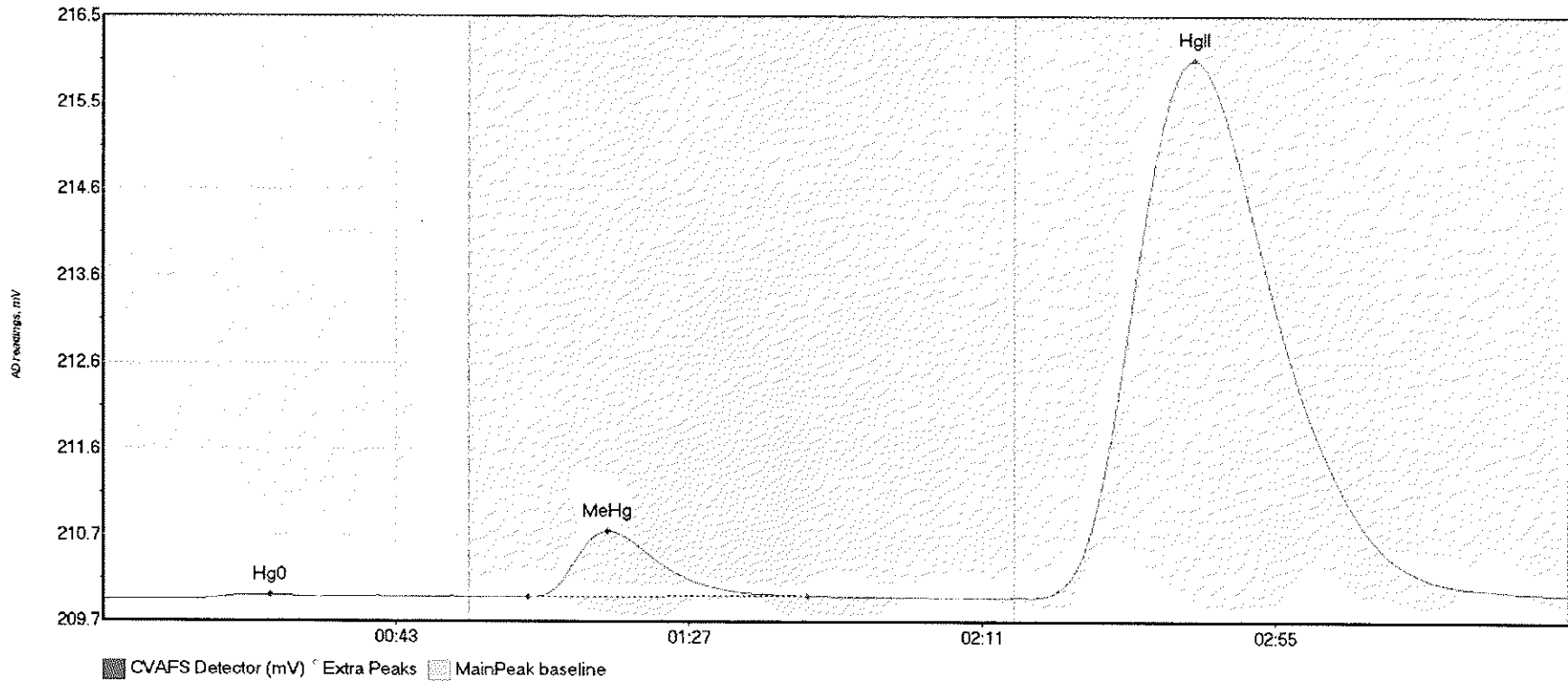
#28: 1708523-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708523-01 Hg0	5.031	1.5	54.3	209.96	210.00	51.5	0.047	OK	209.9606	0.00	0.07	
1708523-01 MeHg	100.957	64.4	105.3	209.99	210.00	76.0	0.699	OK	209.9606	0.00	0.07	
1708523-01 HgII	1227.015	138.2	219.8	209.98	210.03	164.1	4.927	CT	209.9606	0.00	0.07	

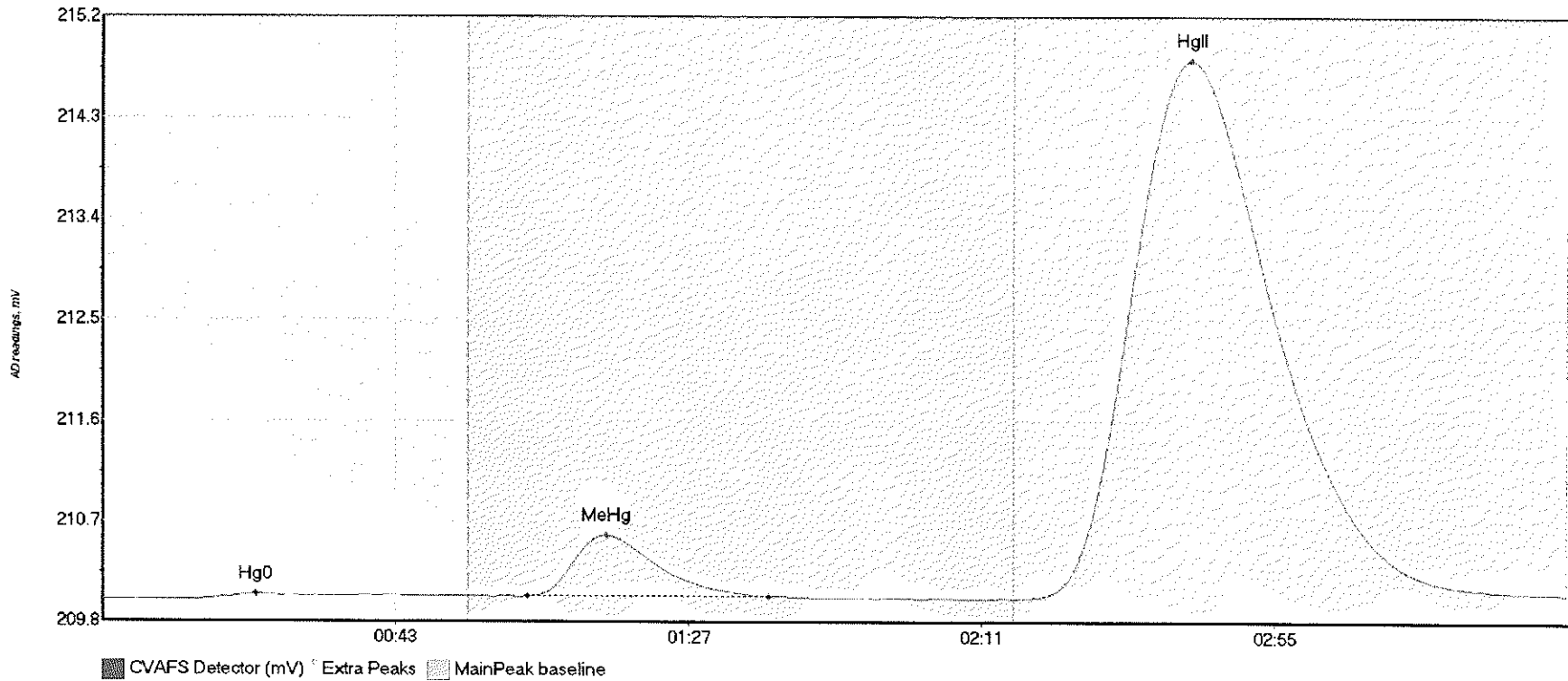
017

#29: 1708523-02



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708523-02 Hg0	3.689	14.4	32.4	209.96	209.98	25.2	0.048	OK	209.9558	0.00	0.07	
1708523-02 MeHg	106.361	63.8	105.8	209.99	210.00	75.9	0.738	OK	209.9558	0.00	0.07	
1708523-02 HgII	1481.084	139.2	217.3	209.98	210.02	163.7	6.028	OK	209.9558	0.00	0.07	

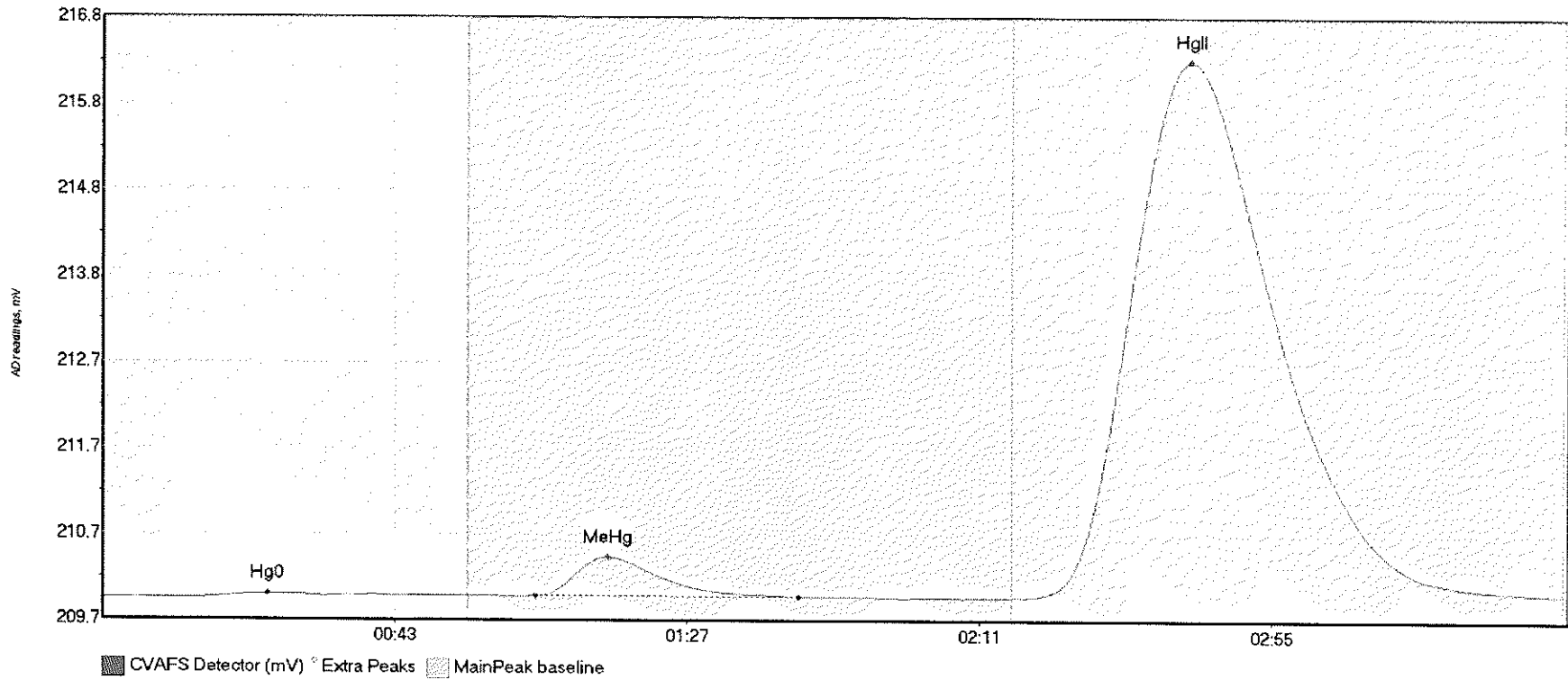
#30: 1708524-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-01 Hg0	3.230	13.9	34.2	209.95	209.98	23.1	0.047	OK	209.9478	0.00	0.06	
1708524-01 MeHg	78.131	63.8	100.0	209.98	209.98	75.8	0.550	OK	209.9478	0.00	0.06	
1708524-01 HgII	1177.319	137.3	219.8	209.96	210.00	163.5	4.815	CT	209.9478	0.00	0.06	

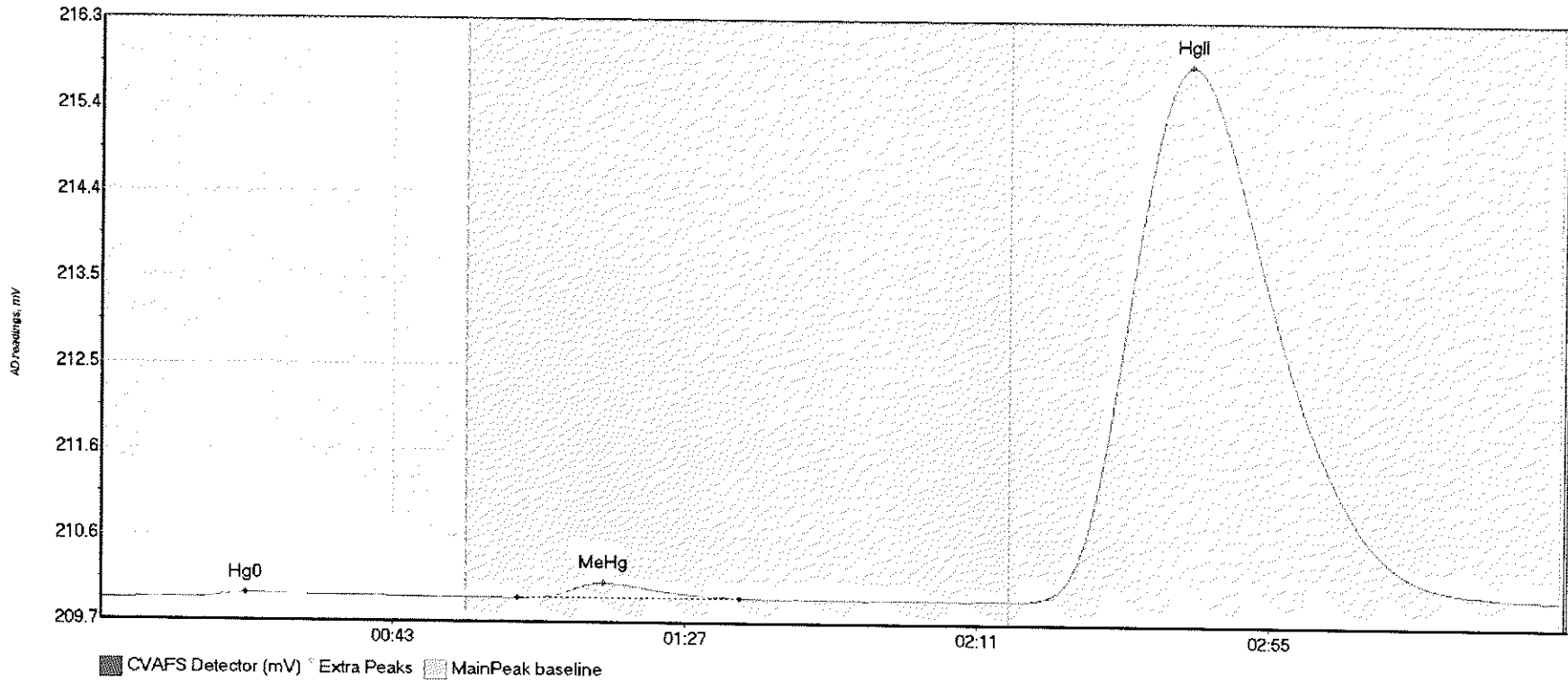
017

#31: 1708524-02



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-02 Hg0	3.629	13.8	33.4	209.95	209.98	24.9	0.048	OK	209.9459	0.00	0.06	
1708524-02 MeHg	67.028	65.2	104.7	209.98	209.97	76.1	0.464	OK	209.9459	0.00	0.06	
1708524-02 HgII	1560.738	138.6	219.8	209.97	210.01	163.8	6.345	CT	209.9459	0.00	0.06	

#32: 1708524-03

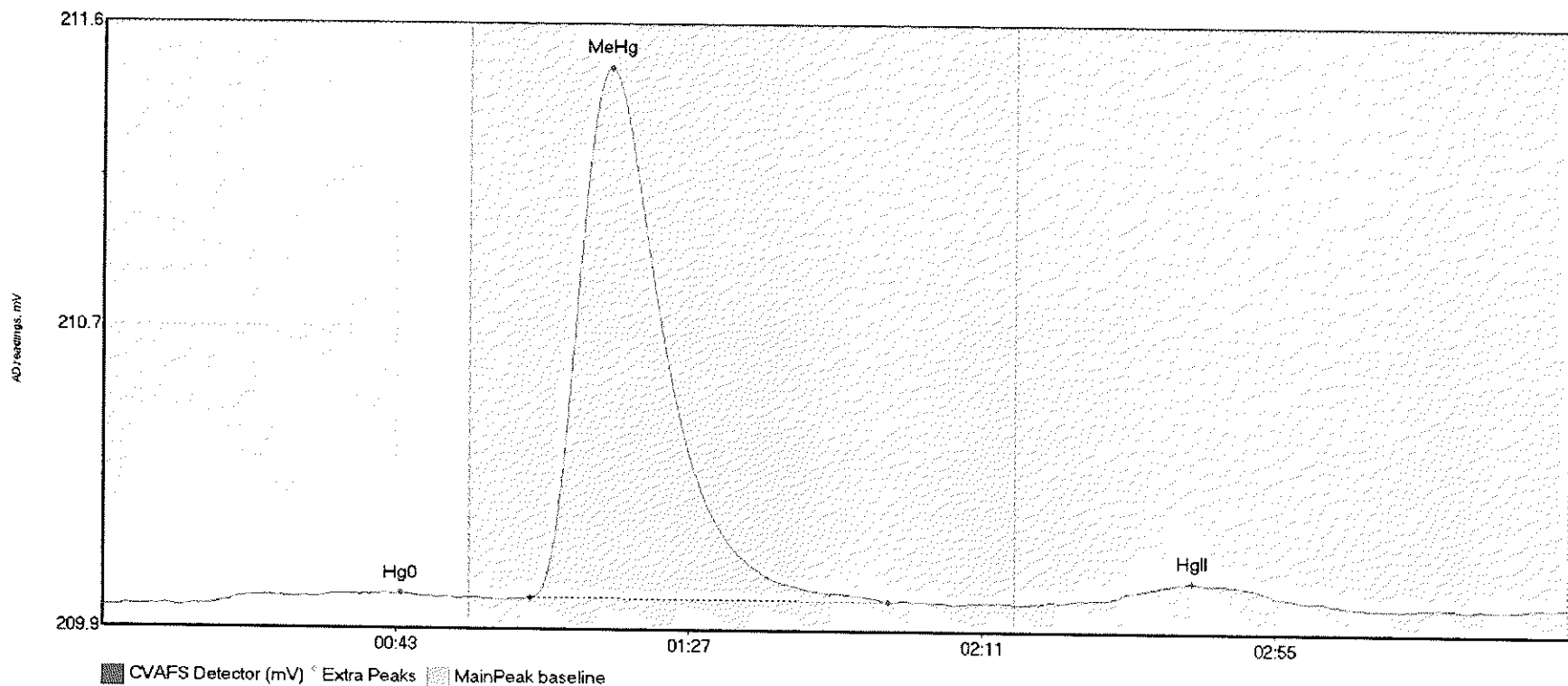


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-03 Hg0	10.609	2.8	53.0	209.94	209.97	21.9	0.064	OK	209.9361	0.00	0.07	
1708524-03 MeHg	23.407	62.7	96.1	209.96	209.97	75.8	0.171	OK	209.9361	0.00	0.07	
1708524-03 HgII	1465.118	138.6	219.8	209.96	210.00	164.1	5.870	CT	209.9361	0.00	0.07	

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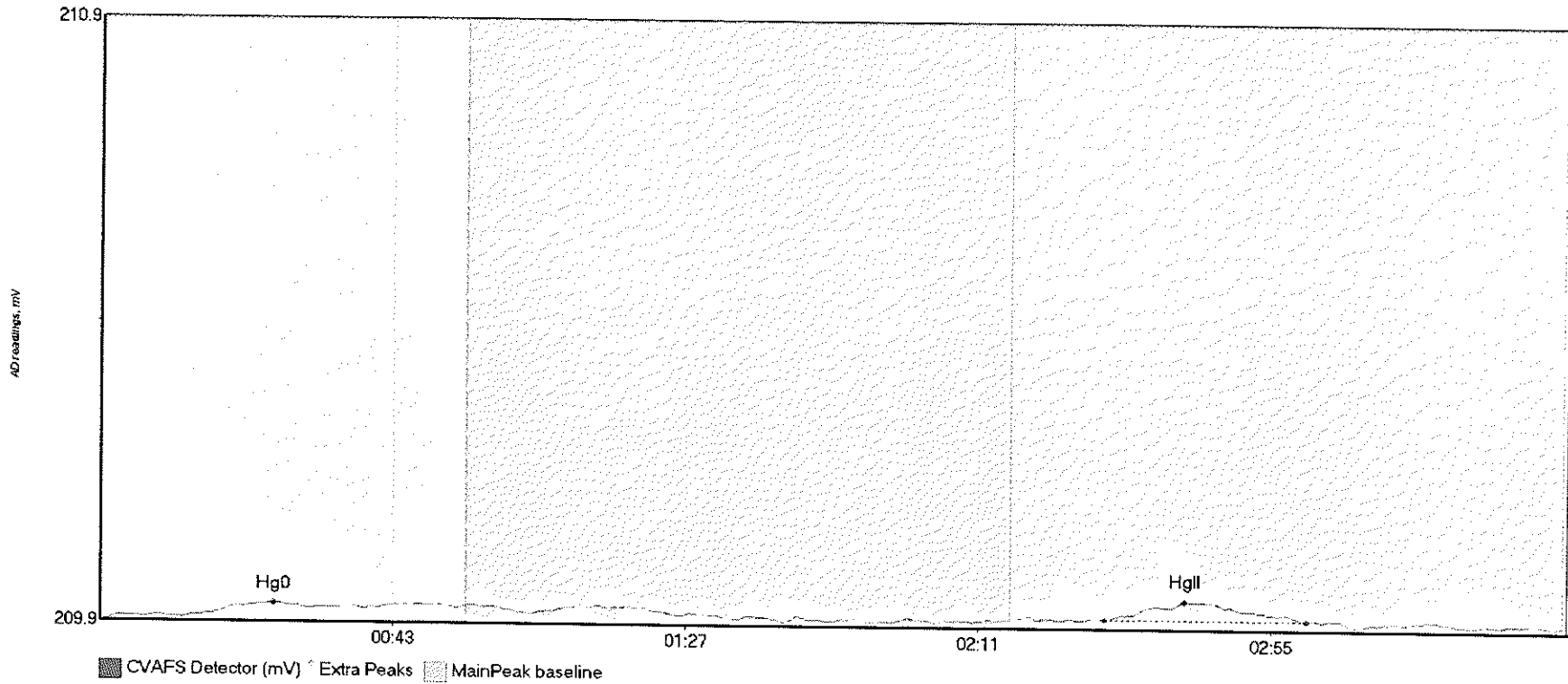


#33: SEQ-CCV2



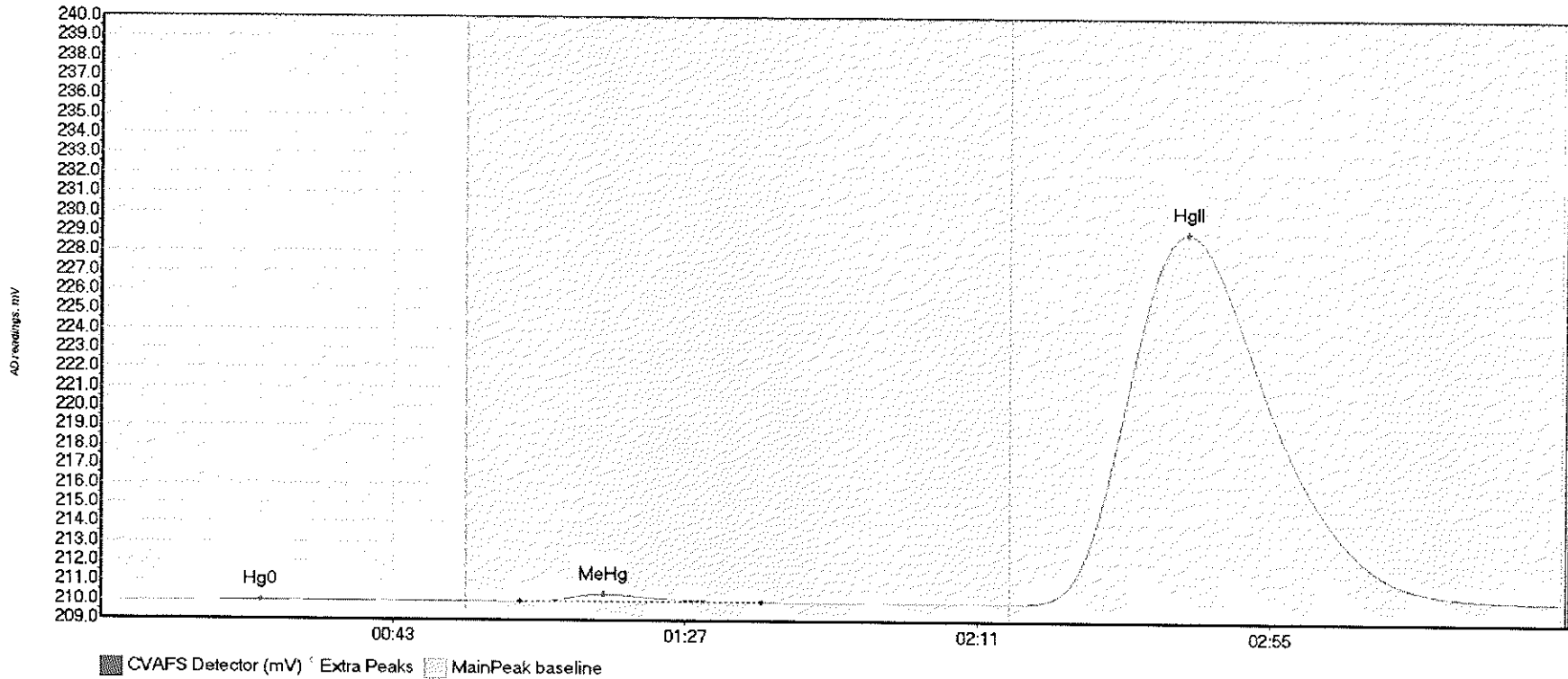
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV2 Hg0	5.450	14.5	53.1	209.94	209.96	44.7	0.034	OK	209.9355	0.00	0.02	
SEQ-CCV2 MeHg	224.950	64.1	117.9	209.96	209.96	76.1	1.509	OK	209.9355	0.00	0.02	
SEQ-CCV2 HgII	12.613	143.5	185.0	209.96	209.95	163.4	0.060	OK	209.9355	0.00	0.02	

#34: SEQ-CCB2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB2 Hg0	1.468	12.4	31.3	209.94	209.95	26.1	0.025	OK	209.9318	0.00	0.01	
SEQ-CCB2 HgII	5.038	151.1	181.3	209.94	209.95	163.1	0.031	OK	209.9318	0.00	0.01	017

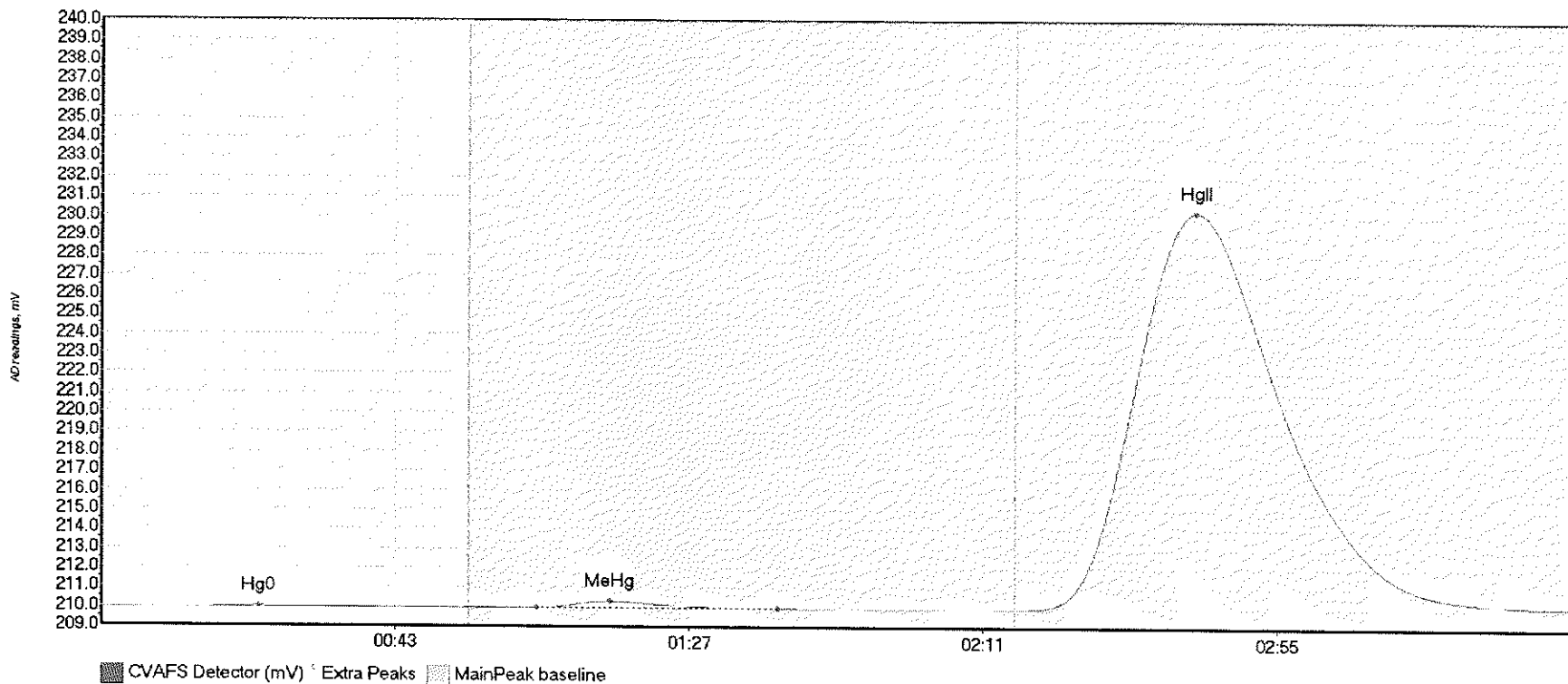
#35: 1708524-04



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-04 Hg0	12.140	14.0	53.1	209.92	209.96	24.0	0.078	OK	209.9258	0.00	0.18	
1708524-04 MeHg	54.484	63.1	99.5	209.95	209.96	75.7	0.394	OK	209.9258	0.00	0.18	
1708524-04 HgII	4677.638	137.8	219.8	209.94	210.10	163.6	19.064	CT	209.9258	0.00	0.18	

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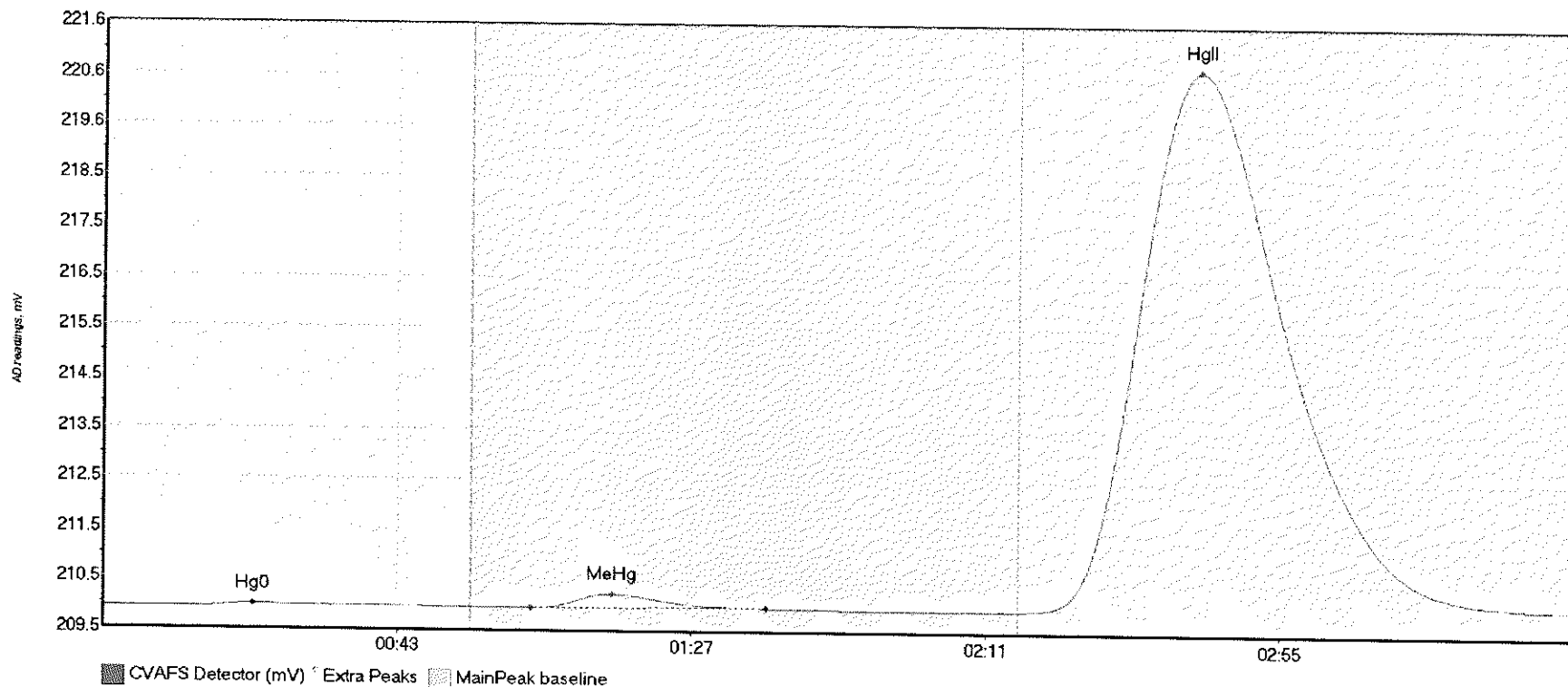
#36: 1708524-05



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-05 Hg0	14.869	7.7	53.8	209.93	209.96	23.6	0.082	OK	209.9277	0.00	0.18	
1708524-05 MeHg	47.774	65.2	101.3	209.96	209.96	76.2	0.341	OK	209.9277	0.00	0.18	
1708524-05 HgII	4984.939	137.6	219.8	209.95	210.11	163.8	20.289	CT	209.9277	0.00	0.18	

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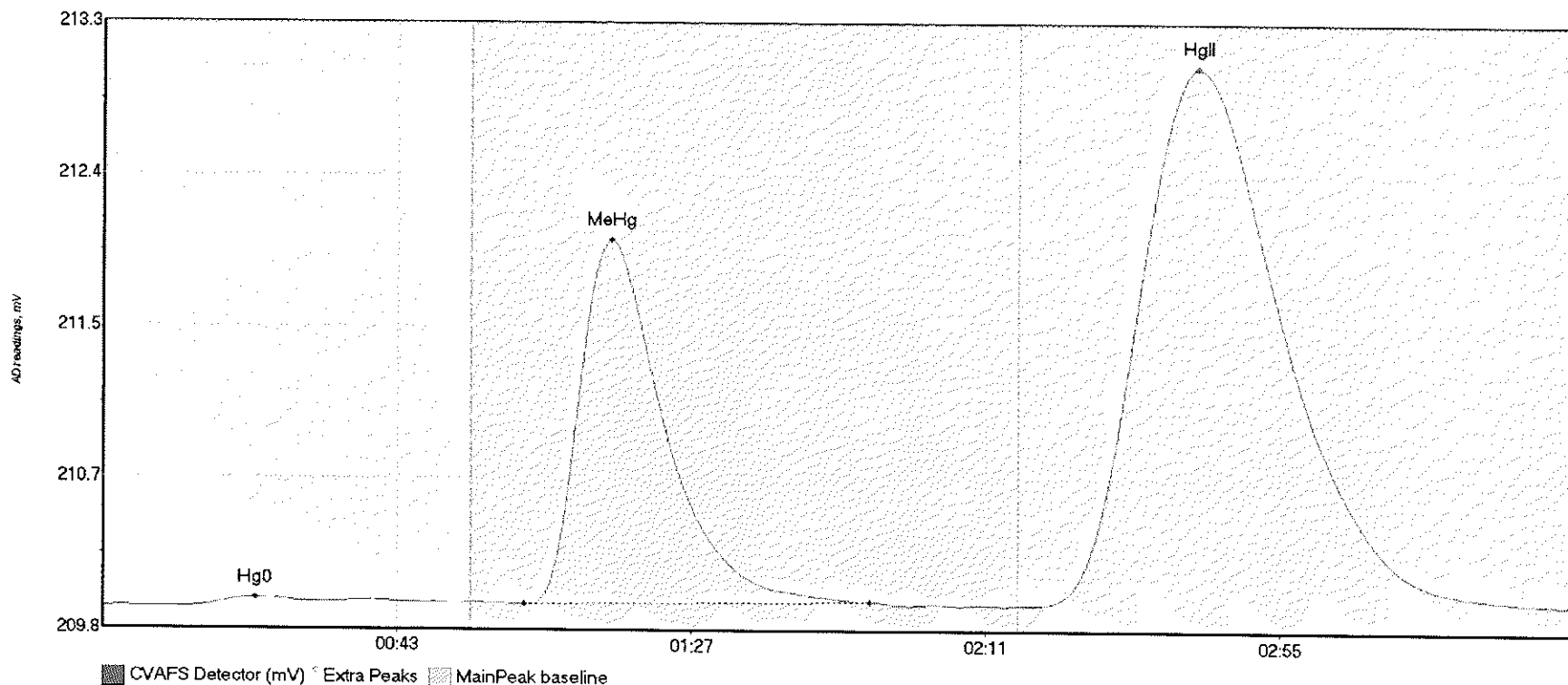
#37: 1708524-06



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1708524-06 Hg0	7.887	15.2	51.5	209.94	209.96	22.4	0.054	OK	209.9365	0.00	0.10	
1708524-06 MeHg	39.007	64.0	99.2	209.95	209.96	76.1	0.279	OK	209.9365	0.00	0.10	
1708524-06 HgII	2647.538	136.8	219.8	209.94	210.04	163.8	10.758	CT	209.9365	0.00	0.10	

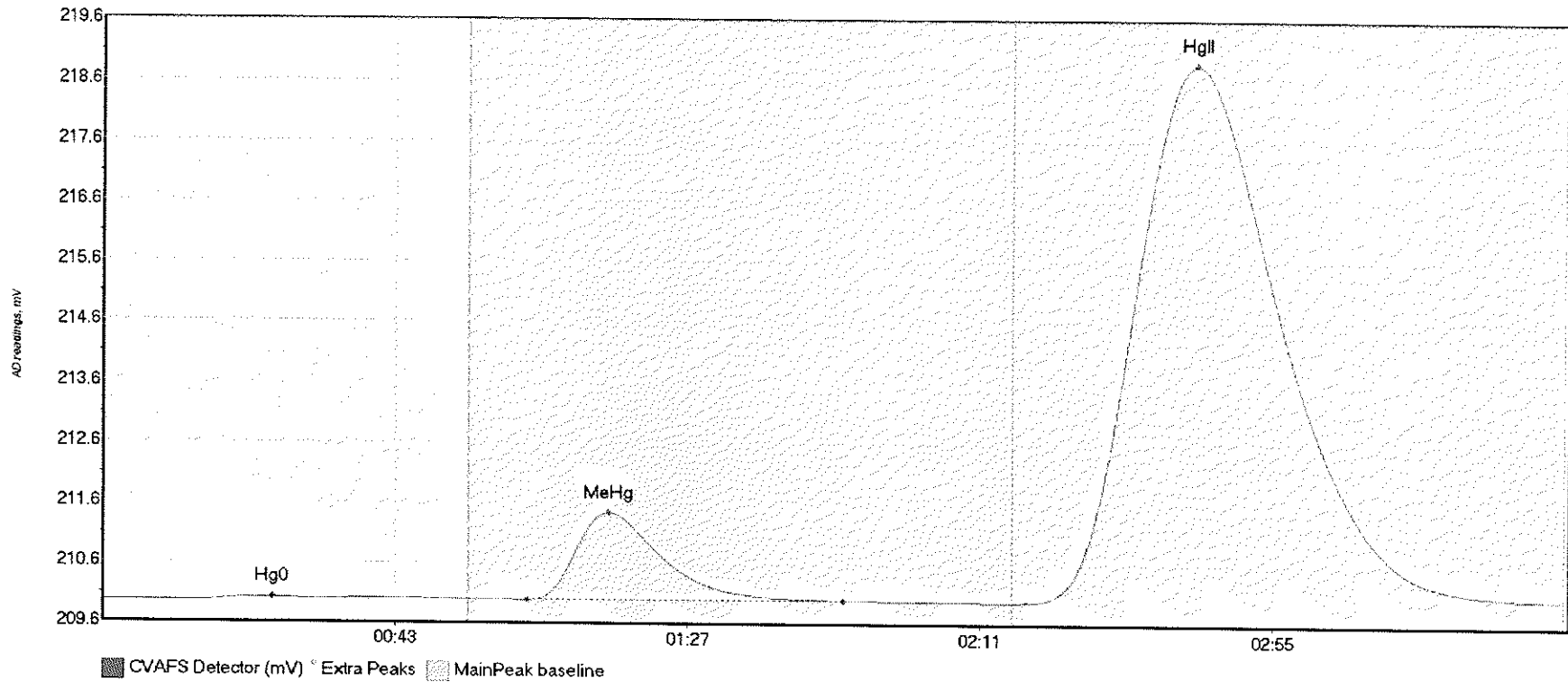
017

#38: 1708524-07



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-07 Hg0	8.604	12.7	51.1	209.93	209.96	22.9	0.053	OK	209.9333	0.00	0.04	
1708524-07 MeHg	307.306	63.0	114.8	209.95	209.97	76.0	2.089	OK	209.9333	0.00	0.04	
1708524-07 HgII	756.202	139.2	218.0	209.95	209.97	163.5	3.089	OK	209.9333	0.00	0.04	

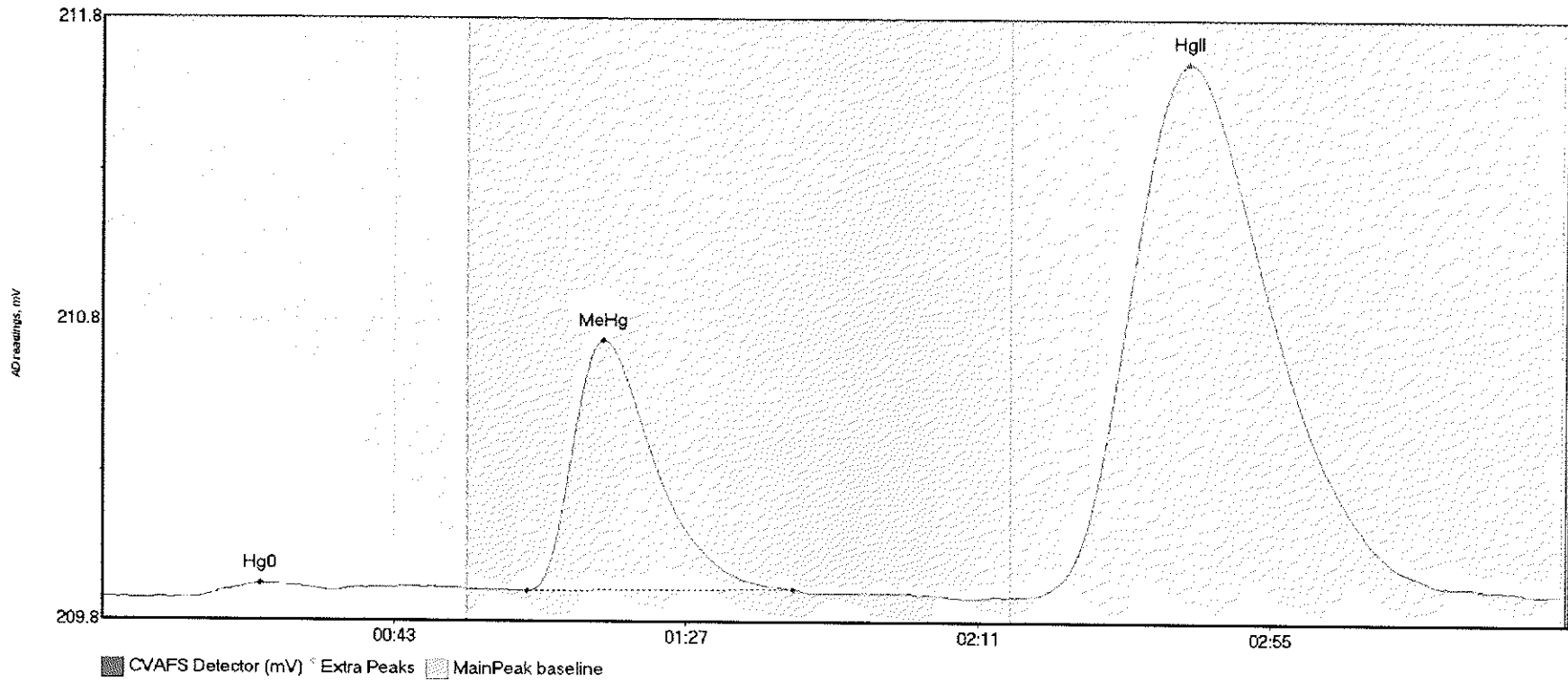
#39: 1708524-08



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-08 Hg0	11.866	13.8	55.0	209.91	209.95	25.6	0.062	CT	209.9219	0.00	0.08	
1708524-08 MeHg	214.490	63.8	111.5	209.94	209.95	76.1	1.460	OK	209.9219	0.00	0.08	
1708524-08 HgII	2231.556	137.3	219.8	209.93	210.00	164.3	8.973	CT	209.9219	0.00	0.08	

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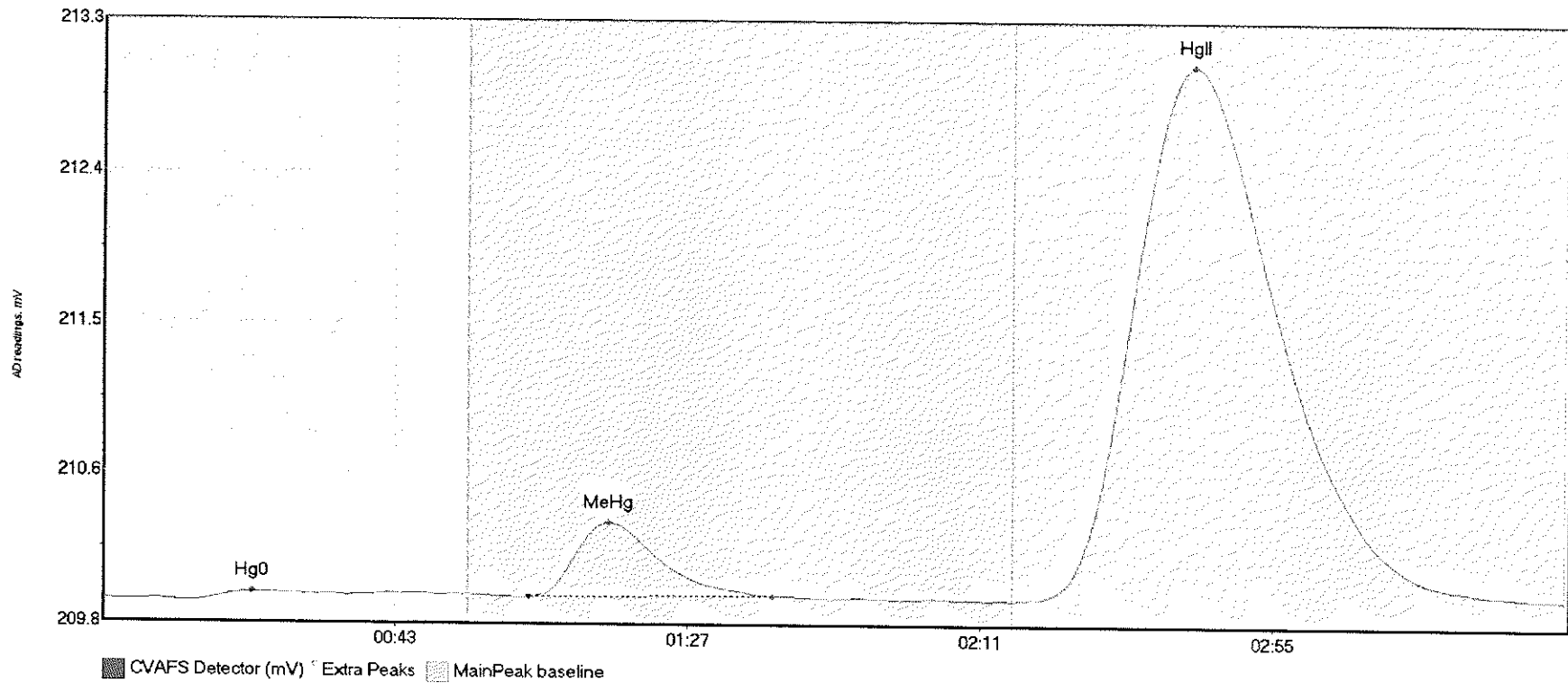
#40: 1708524-09



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-09 Hg0	3.932	14.3	34.5	209.91	209.94	23.8	0.045	OK	209.9143	0.00	0.02	
1708524-09 MeHg	115.541	64.0	104.2	209.94	209.94	75.6	0.815	OK	209.9143	0.00	0.02	
1708524-09 HgII	425.845	140.3	217.1	209.93	209.93	163.5	1.730	OK	209.9143	0.00	0.02	



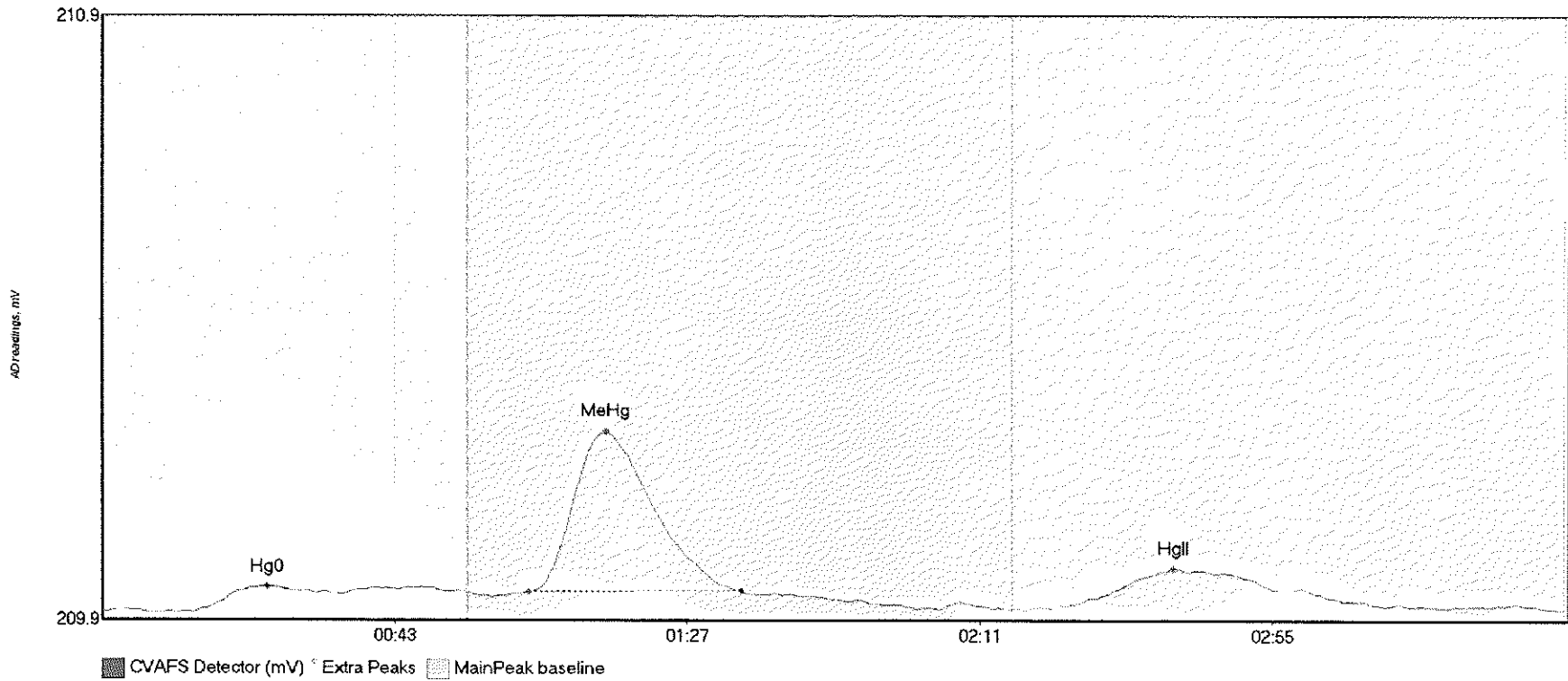
#41: 1708524-10



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-10 Hg0	4.938	13.0	37.0	209.89	209.93	22.4	0.054	OK	209.9100	0.00	0.03	
1708524-10 MeHg	61.860	64.1	100.7	209.93	209.93	76.2	0.435	OK	209.9100	0.00	0.03	
1708524-10 HgII	774.698	136.8	219.8	209.91	209.94	163.9	3.122	CT	209.9100	0.00	0.03	

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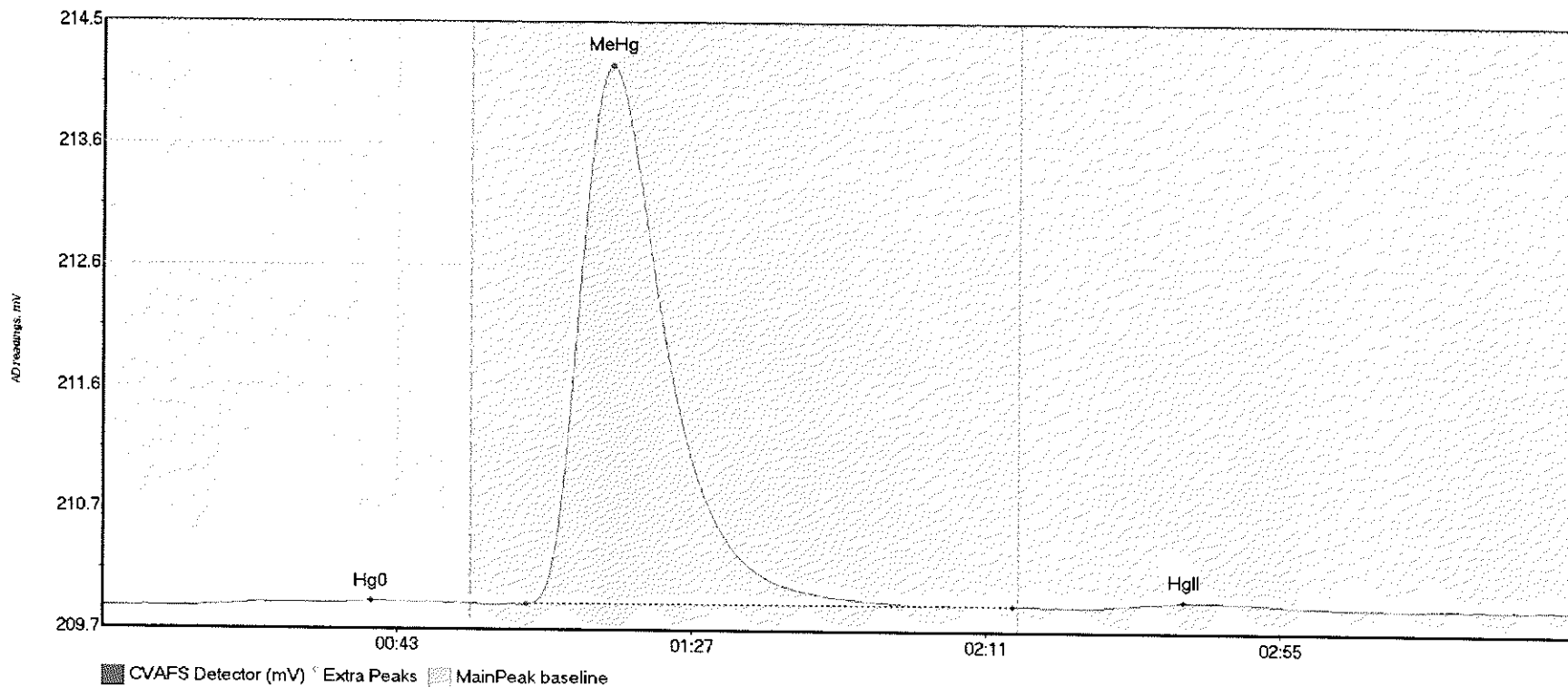
#42: 1708630-05



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708630-05 Hg0	3.059	15.5	36.0	209.90	209.93	24.8	0.037	OK	209.8991	0.00	0.00	
1708630-05 MeHg	36.391	64.2	96.1	209.93	209.93	75.9	0.266	OK	209.8991	0.00	0.00	
1708630-05 HgII	15.336	144.5	192.8	209.91	209.91	161.2	0.063	OK	209.8991	0.00	0.00	

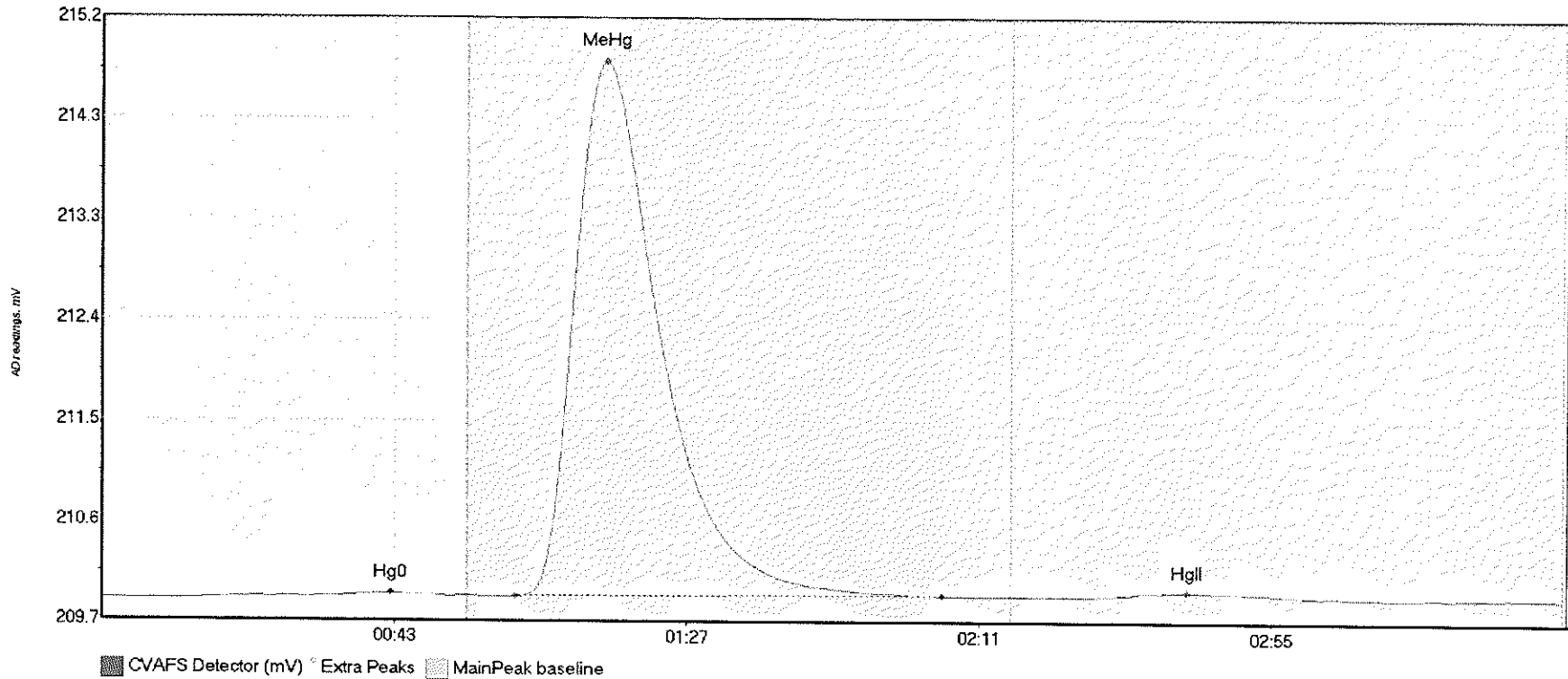
317

#43: 1708633-01



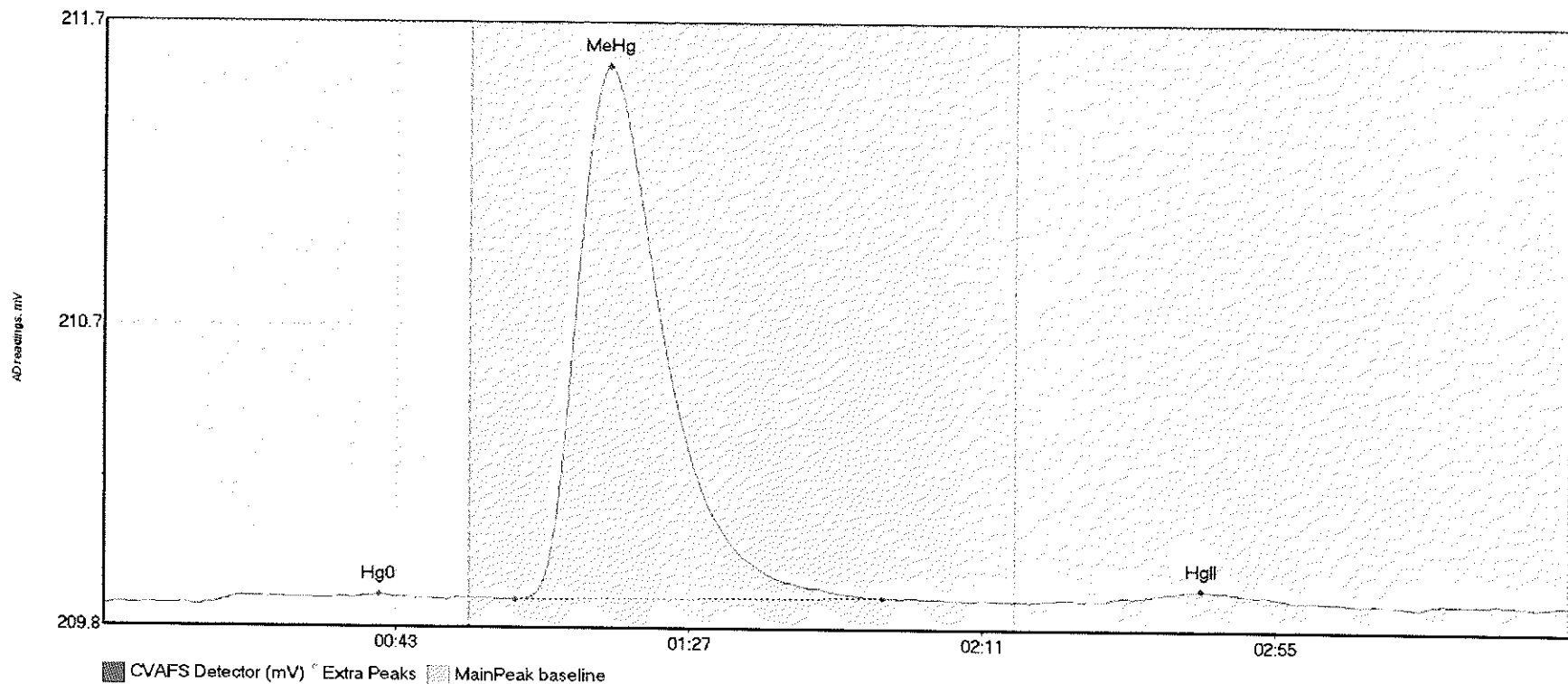
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1708633-01 Hg0	6.548	14.0	55.0	209.89	209.91	40.2	0.041	CT	209.8861	0.00	0.01	
1708633-01 MeHg	638.223	63.3	136.0	209.91	209.92	76.0	4.265	OK	209.8861	0.00	0.01	
1708633-01 HgII	6.815	149.7	179.0	209.91	209.92	161.6	0.043	OK	209.8861	0.00	0.01	

#44: 1708633-02



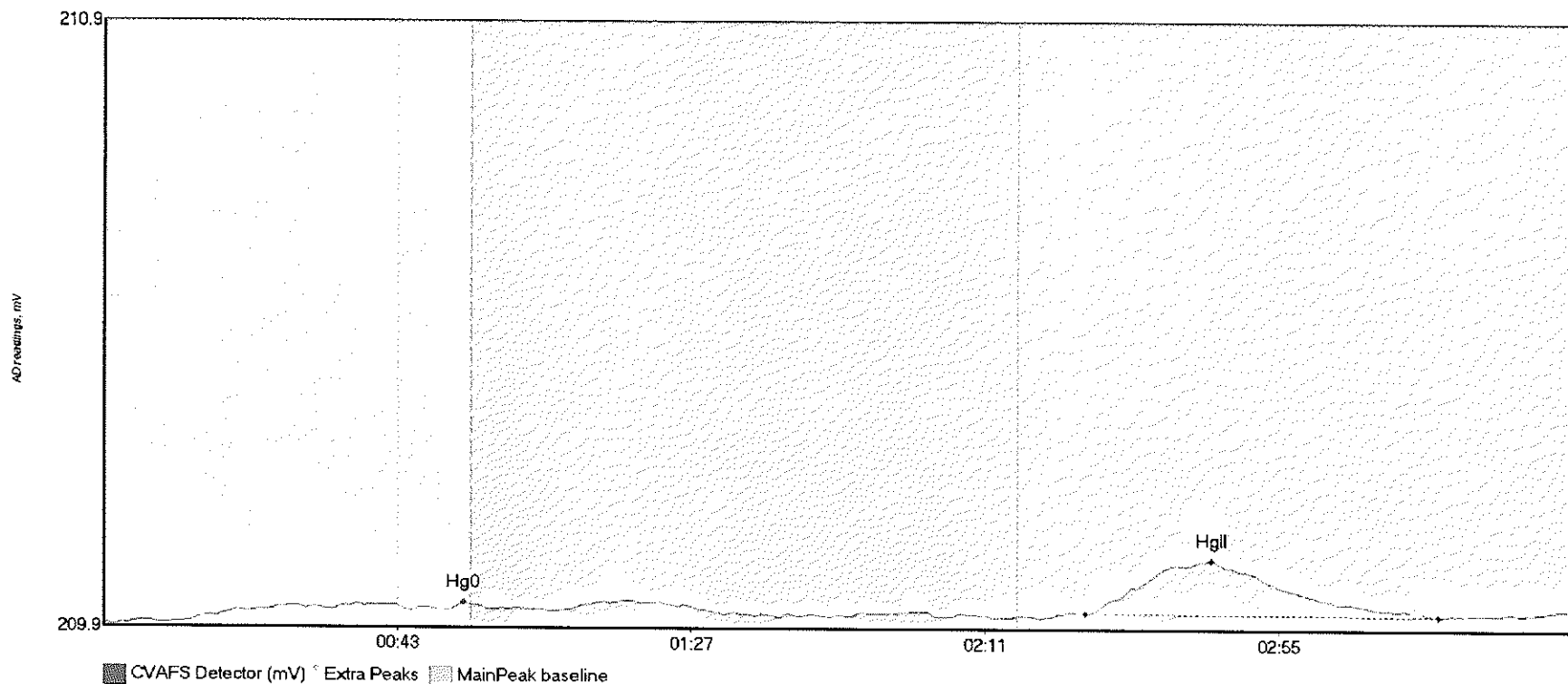
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708633-02 Hg0	4.632	16.7	52.1	209.88	209.90	43.4	0.047	OK	209.8775	0.00	0.02	
1708633-02 MeHg	729.195	62.2	126.5	209.90	209.91	75.9	4.874	OK	209.8775	0.00	0.02	
1708633-02 HgII	8.842	146.7	181.6	209.91	209.91	163.3	0.046	OK	209.8775	0.00	0.02	

#45: SEQ-CCV3



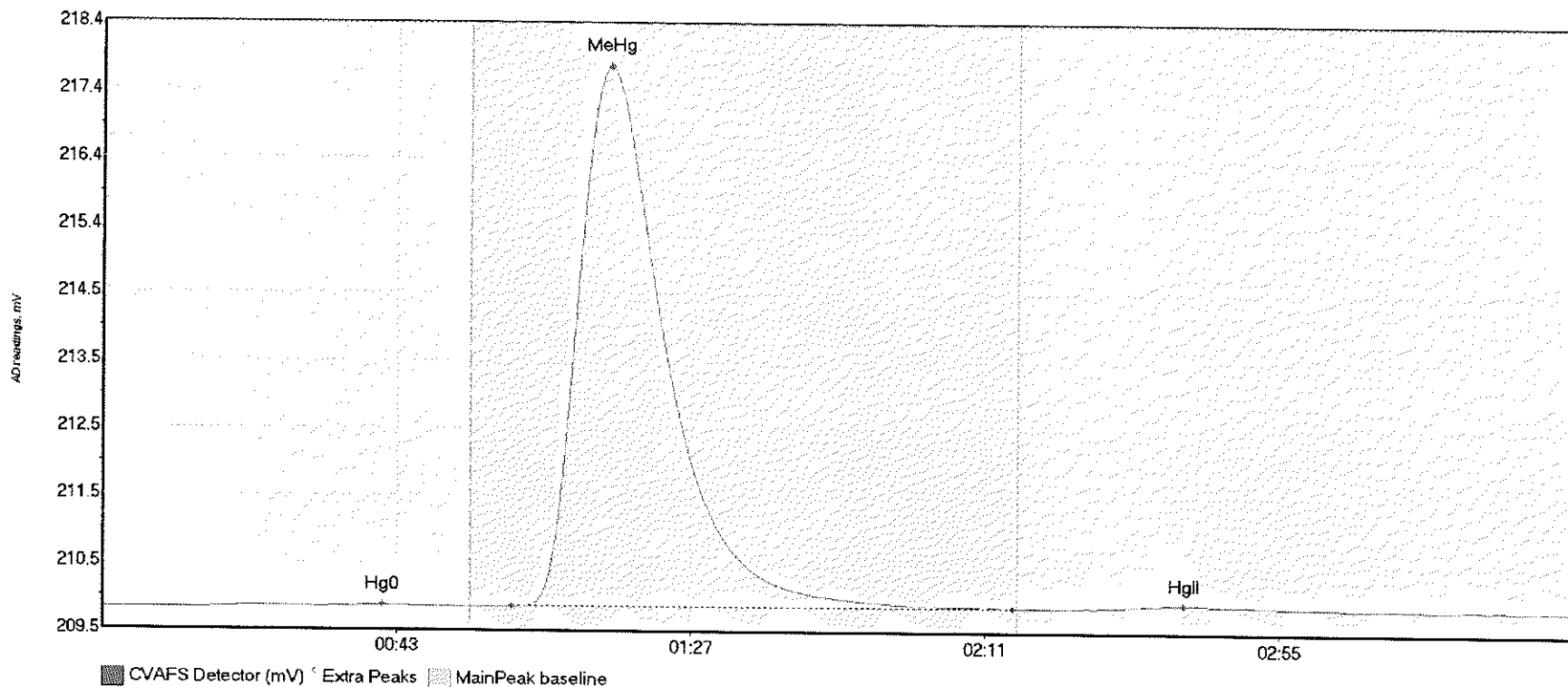
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV3 Hg0	5.216	14.3	51.5	209.87	209.89	41.5	0.034	OK	209.8687	0.00	0.02	
SEQ-CCV3 MeHg	248.176	61.9	117.0	209.89	209.90	75.9	1.654	OK	209.8687	0.00	0.02	
SEQ-CCV3 HgII	5.298	150.3	178.8	209.89	209.89	164.9	0.035	OK	209.8687	0.00	0.02	

#46: SEQ-CCB3



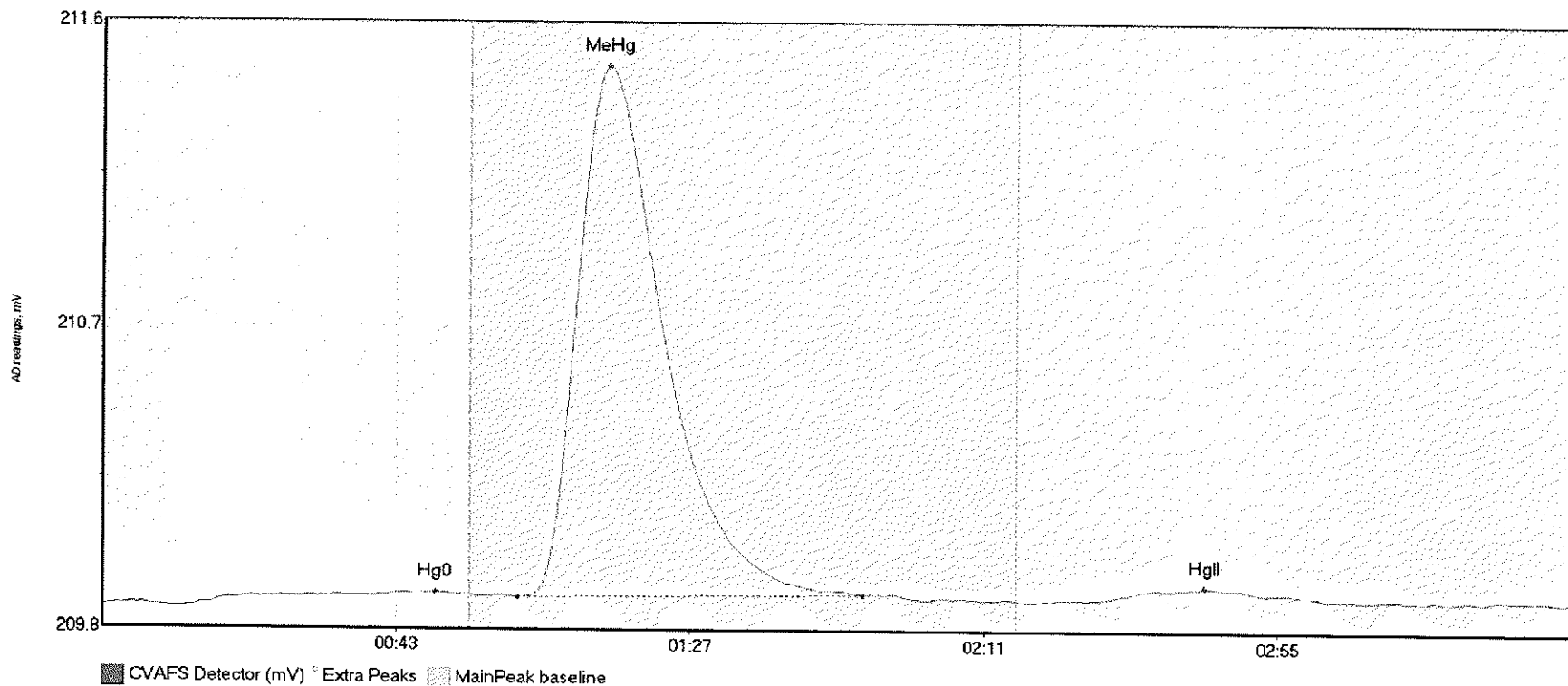
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	3.204	12.9	55.0	209.87	209.90	53.9	0.031	CT	209.8662	0.00	0.03	
SEQ-CCB3 HgII	21.761	147.0	199.9	209.89	209.88	165.9	0.089	OK	209.8662	0.00	0.03	017

#47: 1708633-03



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708633-03 Hg0	5.197	1.0	53.7	209.85	209.88	41.8	0.050	OK	209.8478	0.00	0.04	
1708633-03 MeHg	1190.614	61.1	136.1	209.89	209.90	75.9	7.887	OK	209.8478	0.00	0.04	
1708633-03 HgII	10.129	148.4	186.7	209.90	209.90	161.8	0.049	OK	209.8478	0.00	0.04	017

#48: 1708633-04

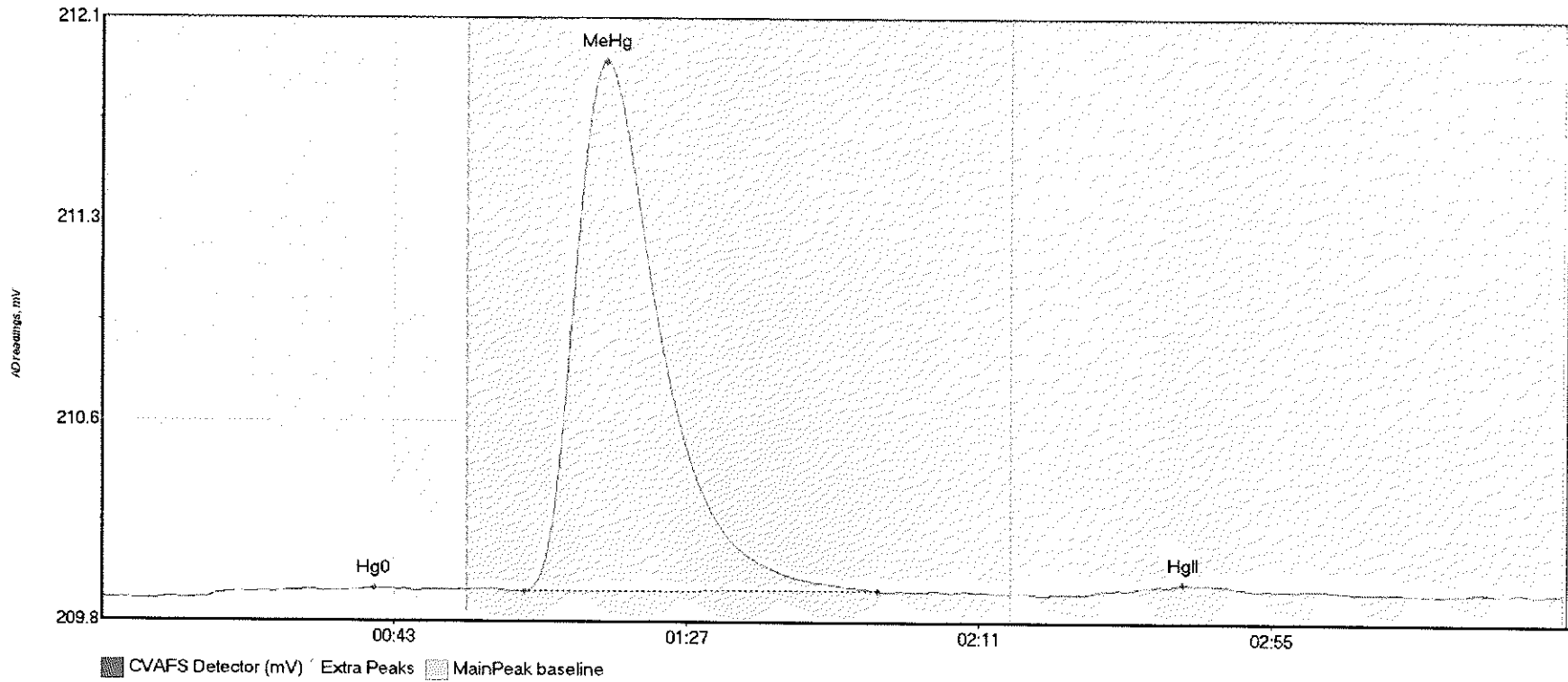


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708633-04 Hg0	4.845	12.9	53.4	209.86	209.90	49.8	0.041	OK	209.8624	0.00	0.02	
1708633-04 MeHg	229.503	62.1	113.9	209.89	209.90	75.8	1.546	OK	209.8624	0.00	0.02	
1708633-04 HgII	7.721	147.4	183.9	209.88	209.89	165.1	0.040	OK	209.8624	0.00	0.02	

017

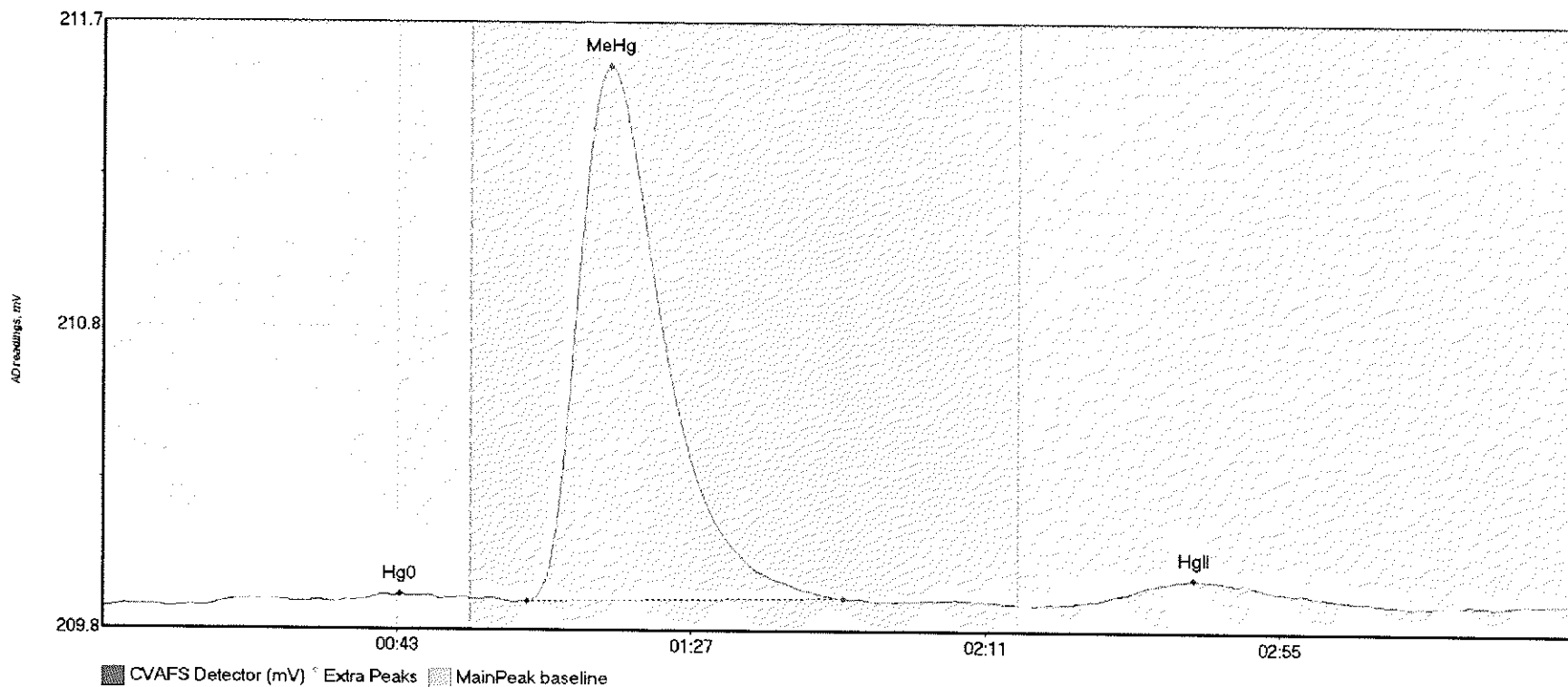


#49: 1708633-05



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708633-05 Hg0	4.061	14.9	47.4	209.87	209.89	41.0	0.035	OK	209.8642	0.00	0.03	
1708633-05 MeHg	306.597	63.6	116.8	209.89	209.89	75.9	2.050	OK	209.8642	0.00	0.03	
1708633-05 HgII	7.052	148.1	188.3	209.88	209.89	162.7	0.040	OK	209.8642	0.00	0.03	

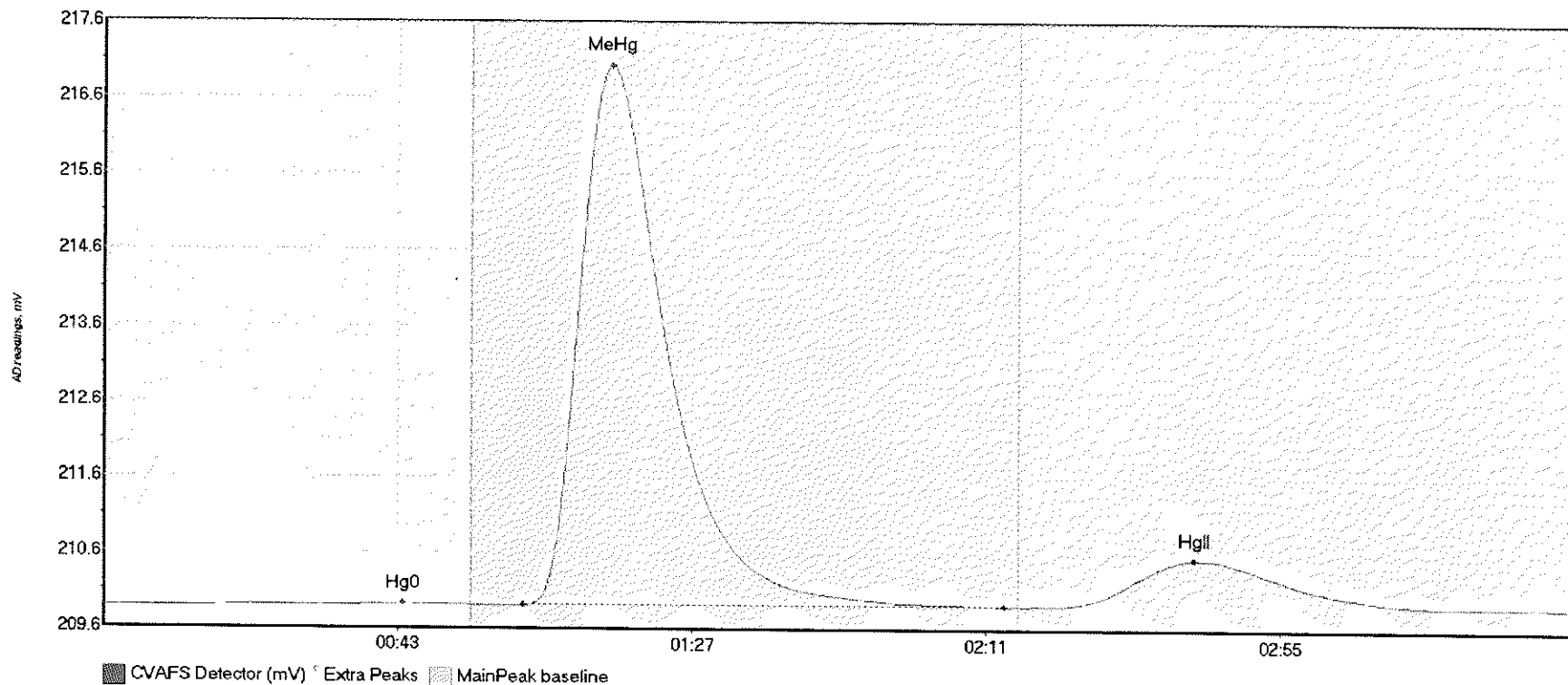
#50: 1708633-06



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708633-06 Hg0	3.250	15.5	50.4	209.88	209.90	44.5	0.035	OK	209.8712	0.00	0.03	
1708633-06 MeHg	247.367	63.5	110.7	209.89	209.90	75.8	1.673	OK	209.8712	0.00	0.03	
1708633-06 HgII	17.308	145.1	191.9	209.89	209.89	163.2	0.076	OK	209.8712	0.00	0.03	

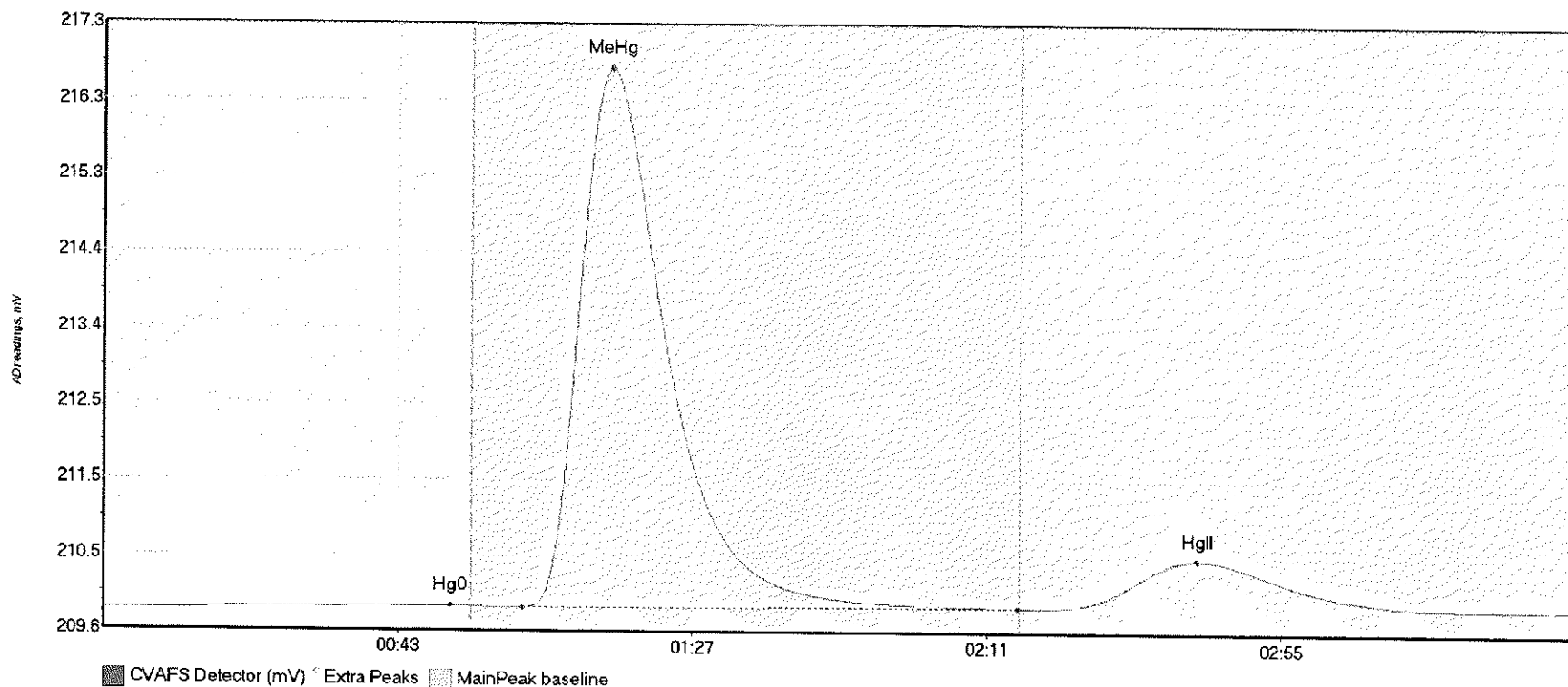
017

#51: F708524-BS2



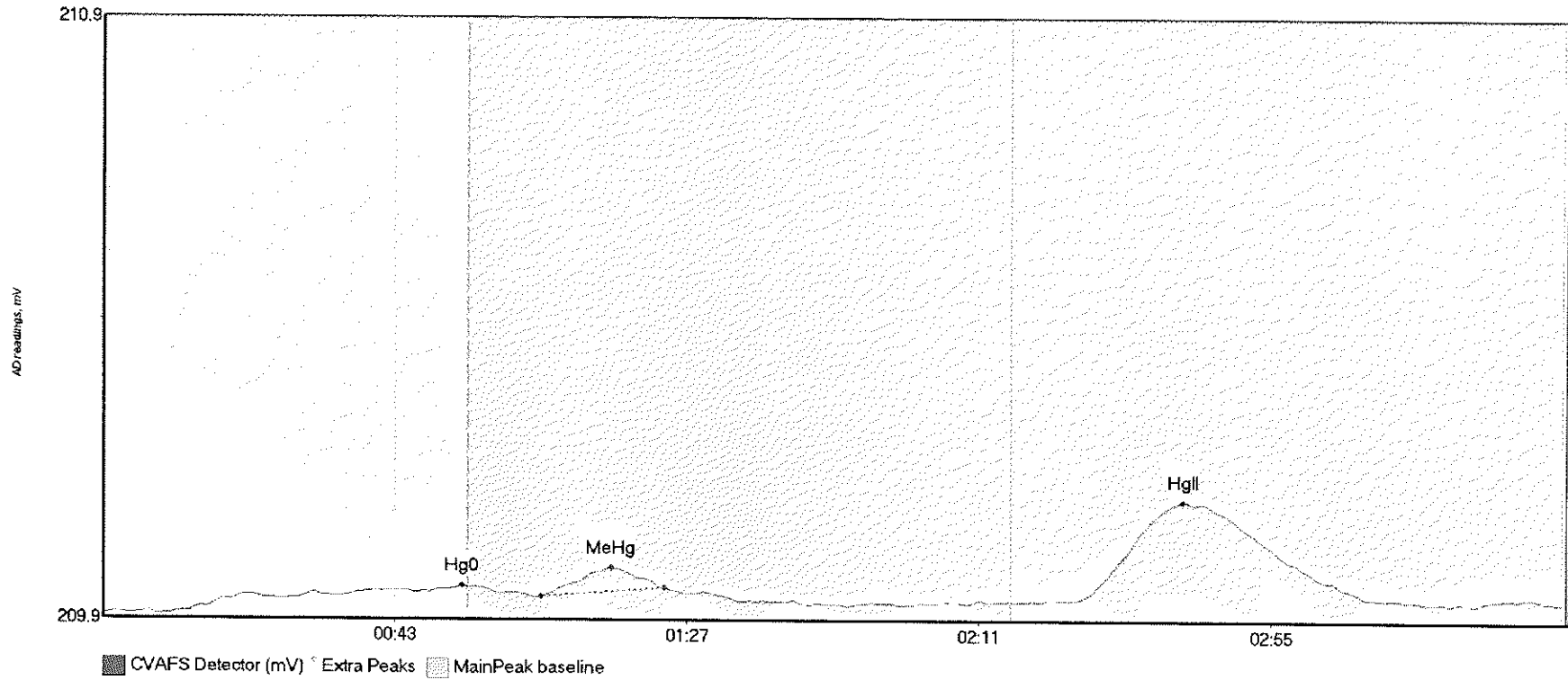
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F708524-BS2	Hg0	4.443	14.7	55.0	209.88	209.89	44.9	0.033	CT	209.8741	0.00	0.02	
F708524-BS2	MeH	1066.373	62.7	134.7	209.89	209.89	75.9	7.093	OK	209.8741	0.00	0.02	
F708524-BS2	HgI	151.805	138.4	204.1	209.90	209.90	163.2	0.620	OK	209.8741	0.00	0.02	

#52: F708524-BSD2



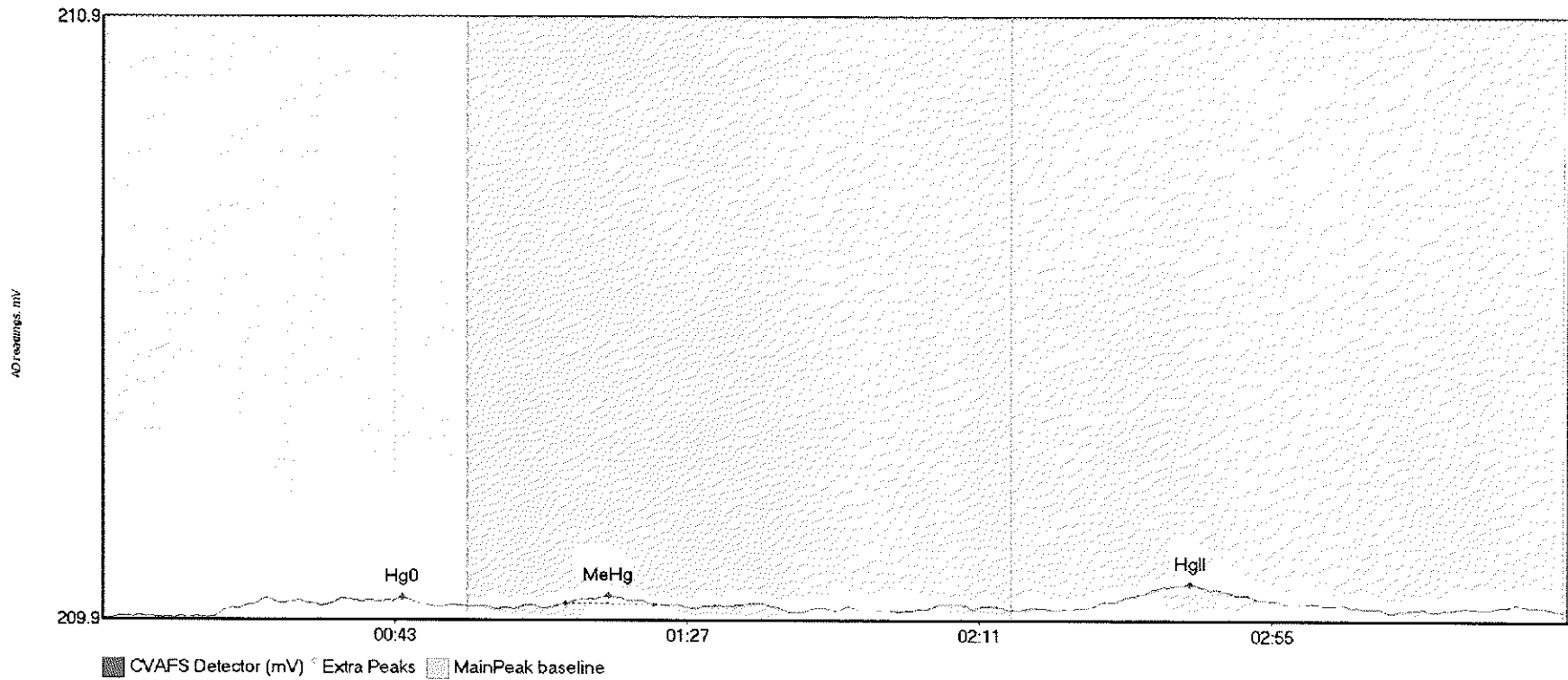
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708524-BSD2 Hg	4.889	15.1	55.0	209.87	209.90	51.9	0.038	CF	209.8709	0.00	0.03	
F708524-BSD2 Me	1025.794	62.6	136.6	209.89	209.90	75.9	6.823	OK	209.8709	0.00	0.03	
F708524-BSD2 Hg	149.357	142.0	204.0	209.91	209.91	163.5	0.616	OK	209.8709	0.00	0.03	

#53: F708549-BLK1



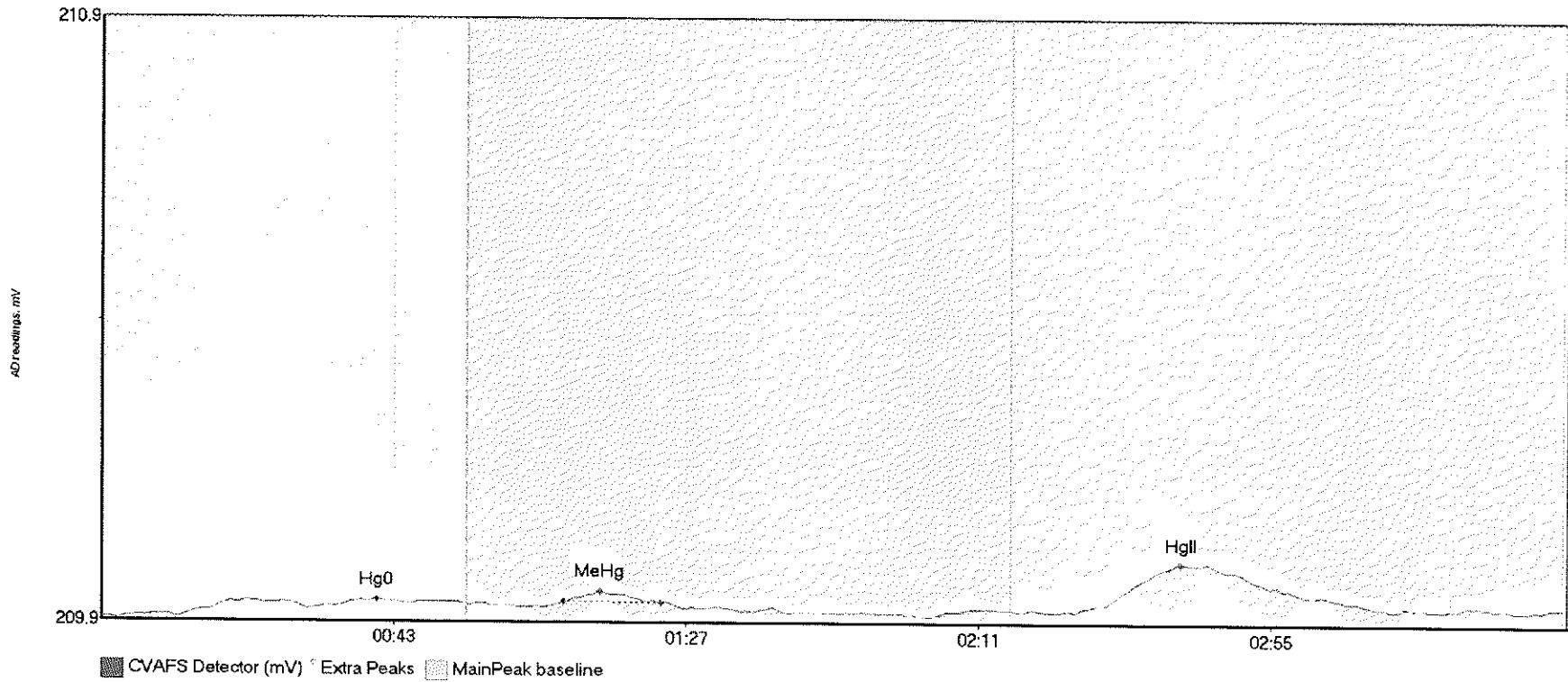
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BLK1 Hg	2.960	12.6	55.0	209.88	209.92	54.1	0.043	CT	209.8739	0.00	0.02	
F708549-BLK1 Me	4.008	66.0	84.6	209.90	209.92	76.6	0.048	OK	209.8739	0.00	0.02	
F708549-BLK1 Hg	36.998	146.8	192.8	209.90	209.90	162.8	0.164	OK	209.8739	0.00	0.02	

#54: F708549-BLK2



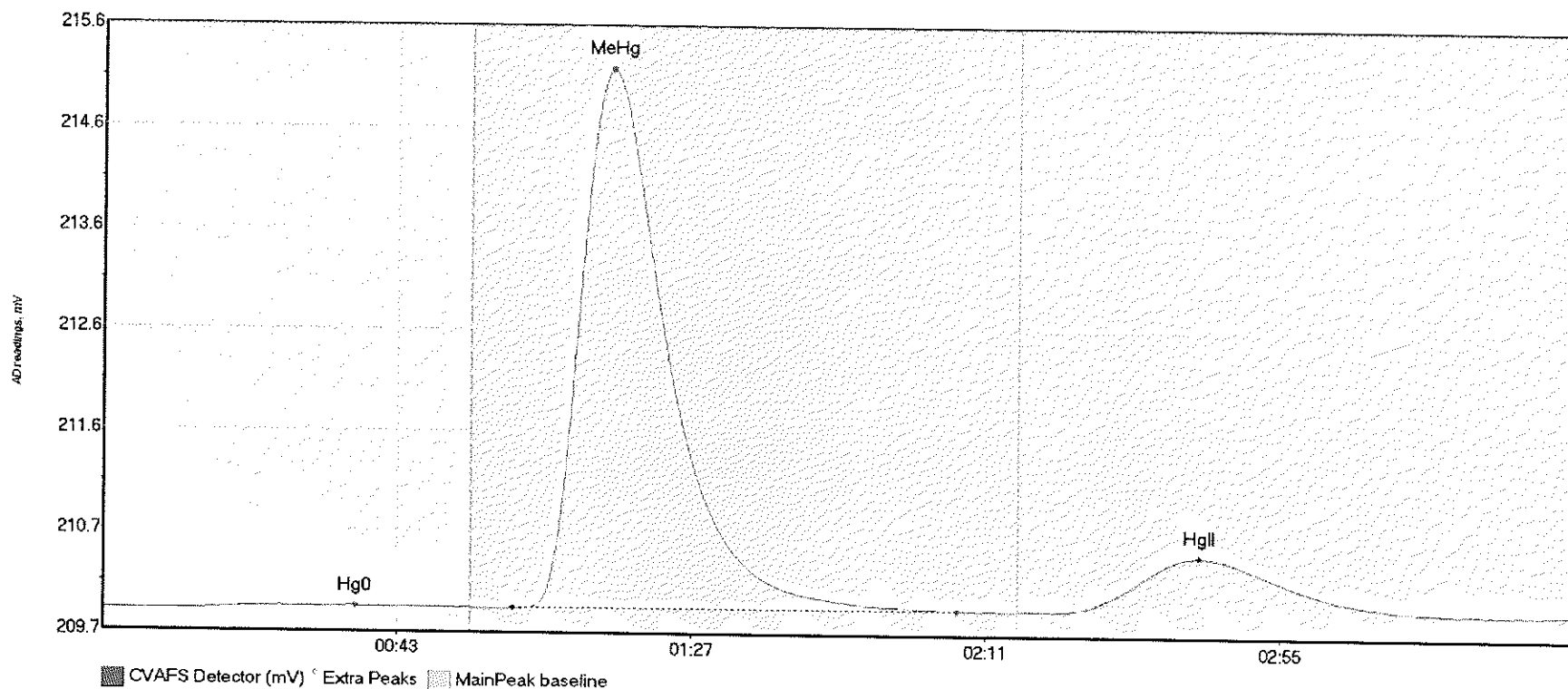
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BLK2 Hg	5.263	16.6	51.0	209.88	209.90	45.2	0.032	OK	209.8806	0.00	0.01	
F708549-BLK2 Me	1.027	69.7	83.0	209.91	209.90	76.2	0.013	OK	209.8806	0.00	0.01	
F708549-BLK2 Hg	6.899	148.8	188.0	209.90	209.90	163.7	0.039	OK	209.8806	0.00	0.01	

#55: F708549-BLK3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BLK3 Hg	3.455	11.4	46.2	209.88	209.90	41.4	0.029	OK	209.8755	0.00	0.02	
F708549-BLK3 Me	1.239	69.6	84.2	209.90	209.90	75.0	0.016	OK	209.8755	0.00	0.02	
F708549-BLK3 Hg	18.150	146.3	193.9	209.89	209.89	162.5	0.081	OK	209.8755	0.00	0.02	

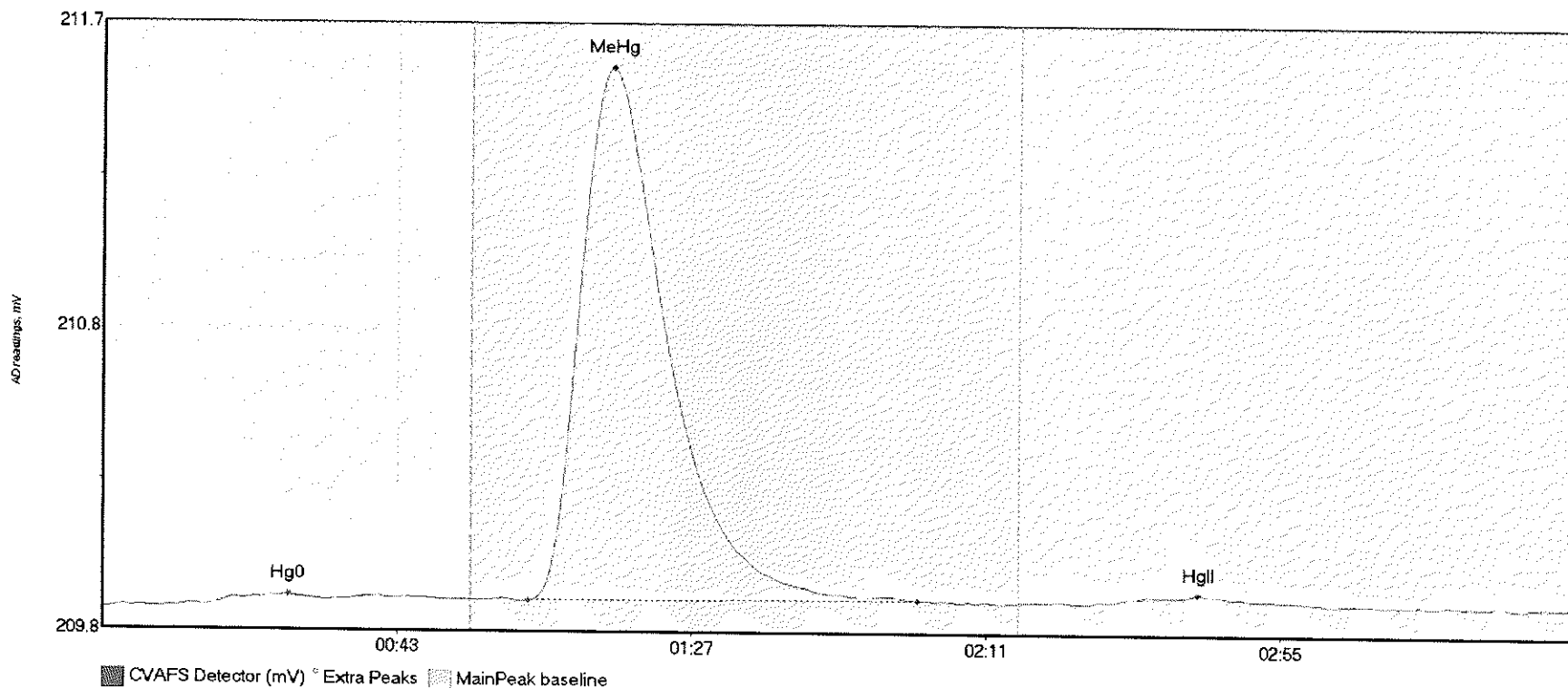
#56: F708549-BS1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BS1 Hg0	5.679	14.1	53.2	209.89	209.91	37.7	0.034	OK	209.8849	0.00	0.03	
F708549-BS1 MeH	792.293	61.3	127.8	209.91	209.92	76.0	5.262	OK	209.8849	0.00	0.03	
F708549-BS1 HgI	130.155	142.8	201.4	209.91	209.91	163.9	0.539	OK	209.8849	0.00	0.03	

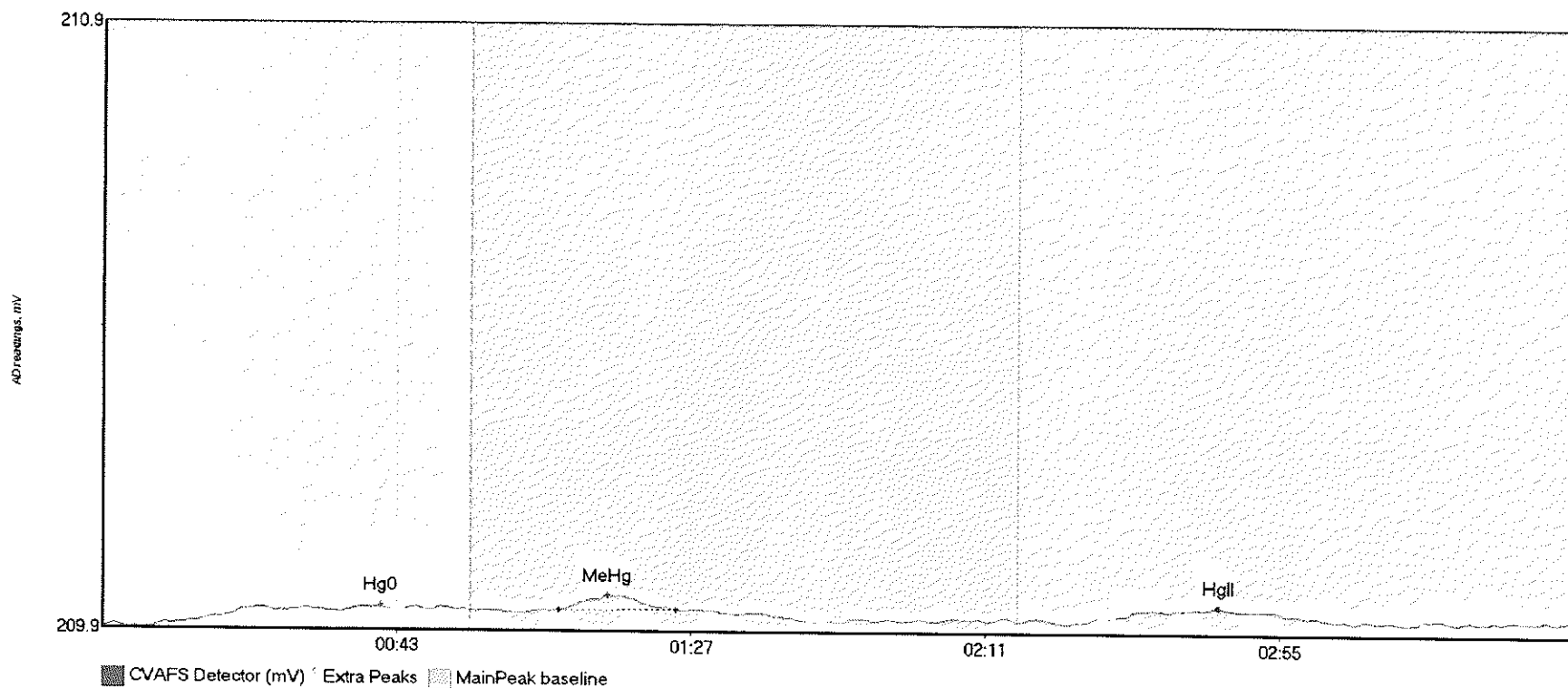


#57: SEQ-CCV4



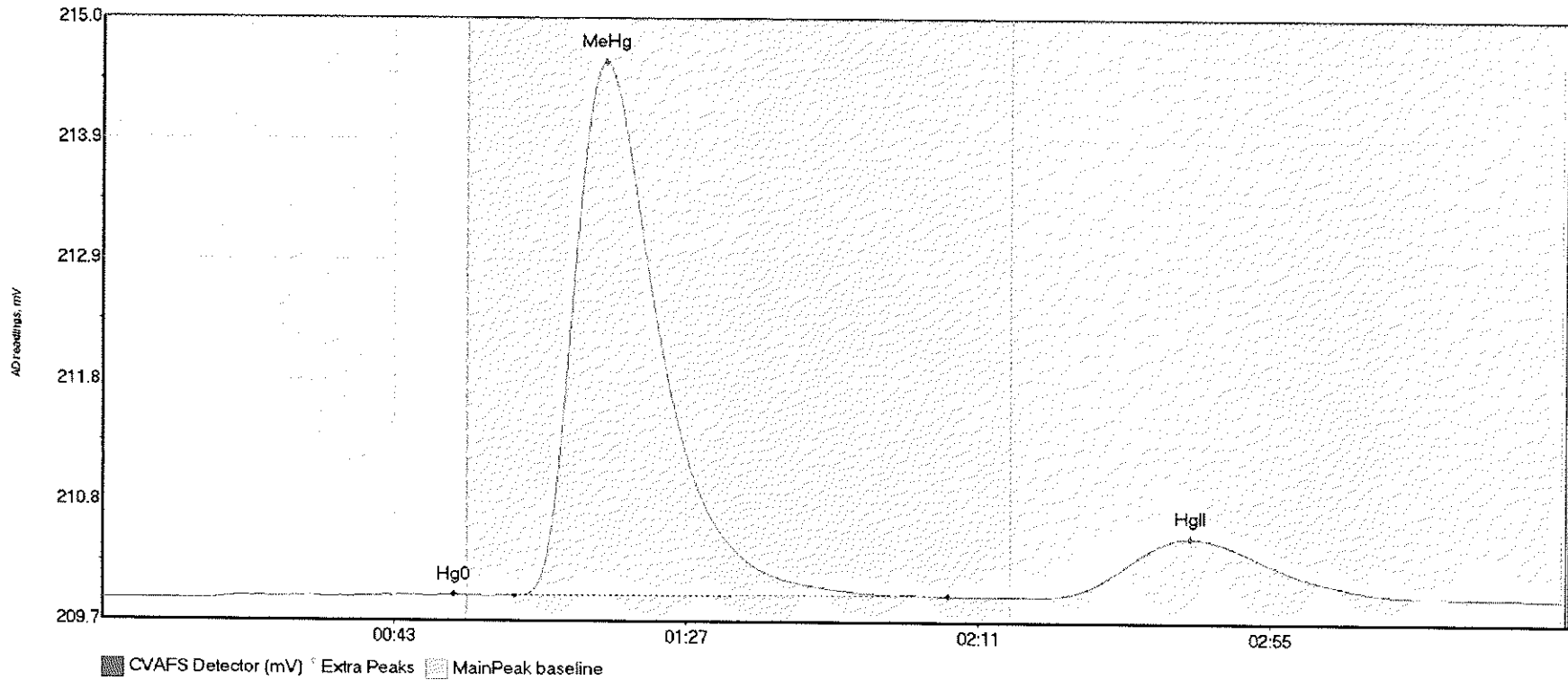
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	2.529	8.4	33.2	209.88	209.90	27.7	0.040	OK	209.8751	0.00	0.02	
SEQ-CCV4 MeHg	251.378	63.6	121.7	209.90	209.91	76.1	1.678	OK	209.8751	0.00	0.02	
SEQ-CCV4 HgII	3.630	151.2	180.8	209.91	209.91	163.8	0.025	OK	209.8751	0.00	0.02	

#58: SEQ-CCB4



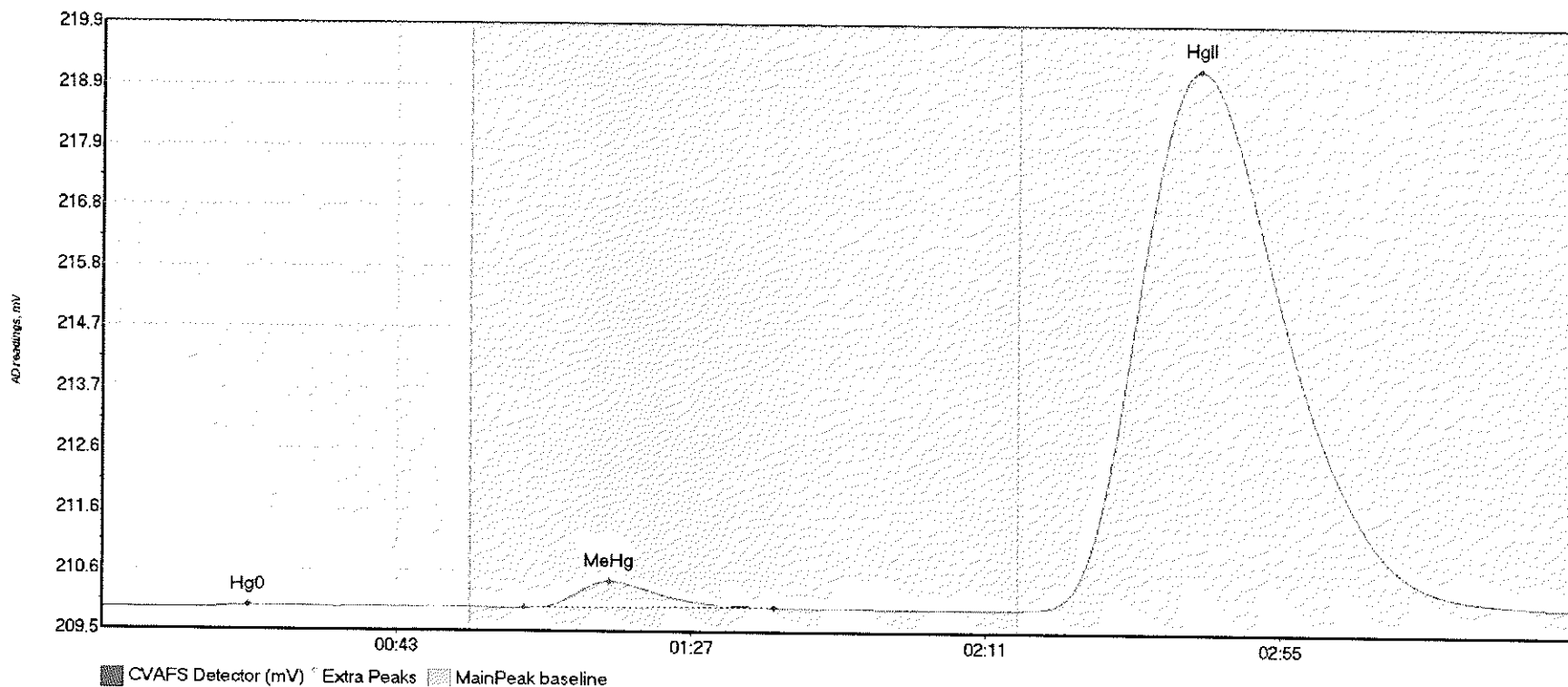
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	4.356	10.5	55.0	209.89	209.91	41.6	0.030	CT	209.8835	0.00	0.02	
SEQ-CCB4 MeHg	2.239	68.2	85.8	209.91	209.91	75.5	0.024	OK	209.8835	0.00	0.02	
SEQ-CCB4 HgII	5.474	146.5	184.5	209.90	209.90	166.9	0.026	OK	209.8835	0.00	0.02	

#59: F708549-BSD1



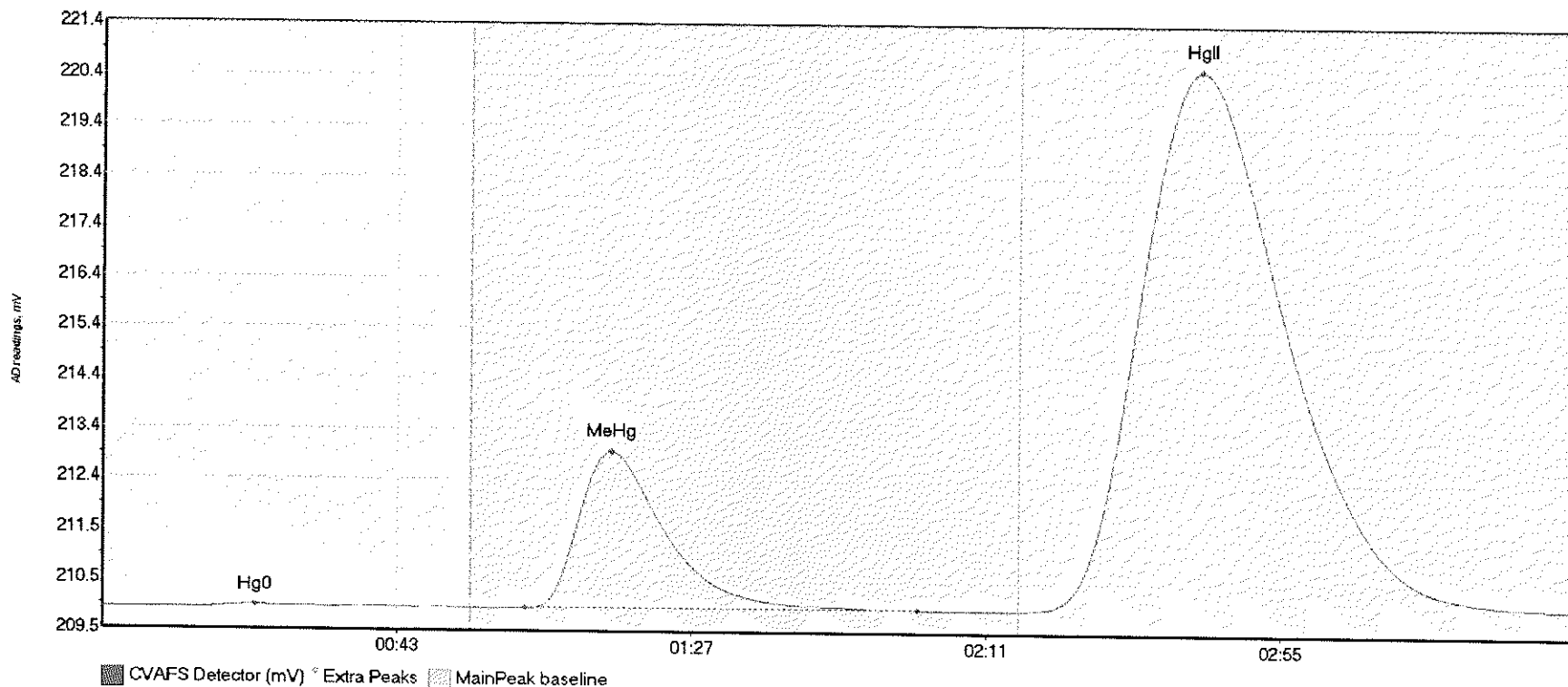
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BSD1 Hg	2.395	17.0	54.8	209.89	209.92	53.0	0.030	OK	209.8907	0.00	0.02	
F708549-BSD1 Me	702.401	62.1	127.5	209.92	209.92	75.9	4.682	OK	209.8907	0.00	0.02	
F708549-BSD1 Hg	126.979	141.1	203.1	209.92	209.93	164.0	0.519	OK	209.8907	0.00	0.02	

#60: F708549-DUP1



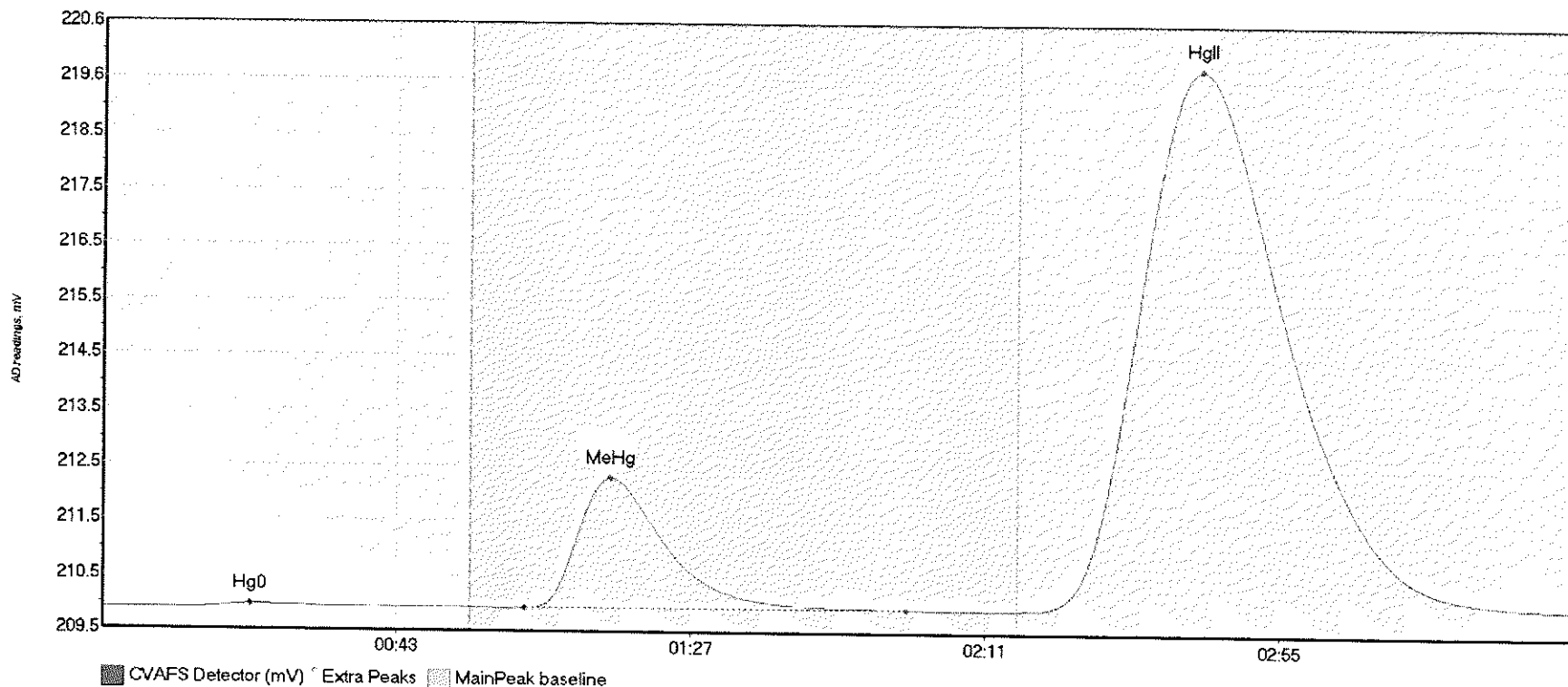
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-DUP1 Hg	4.101	14.9	35.3	209.89	209.92	21.9	0.047	OK	209.8891	0.00	0.10	
F708549-DUP1 Me	63.975	63.0	100.5	209.92	209.93	75.8	0.457	OK	209.8891	0.00	0.10	
F708549-DUP1 Hg	2323.215	137.2	219.8	209.92	209.99	163.8	9.281	CT	209.8891	0.00	0.10	

#61: F708549-MS1



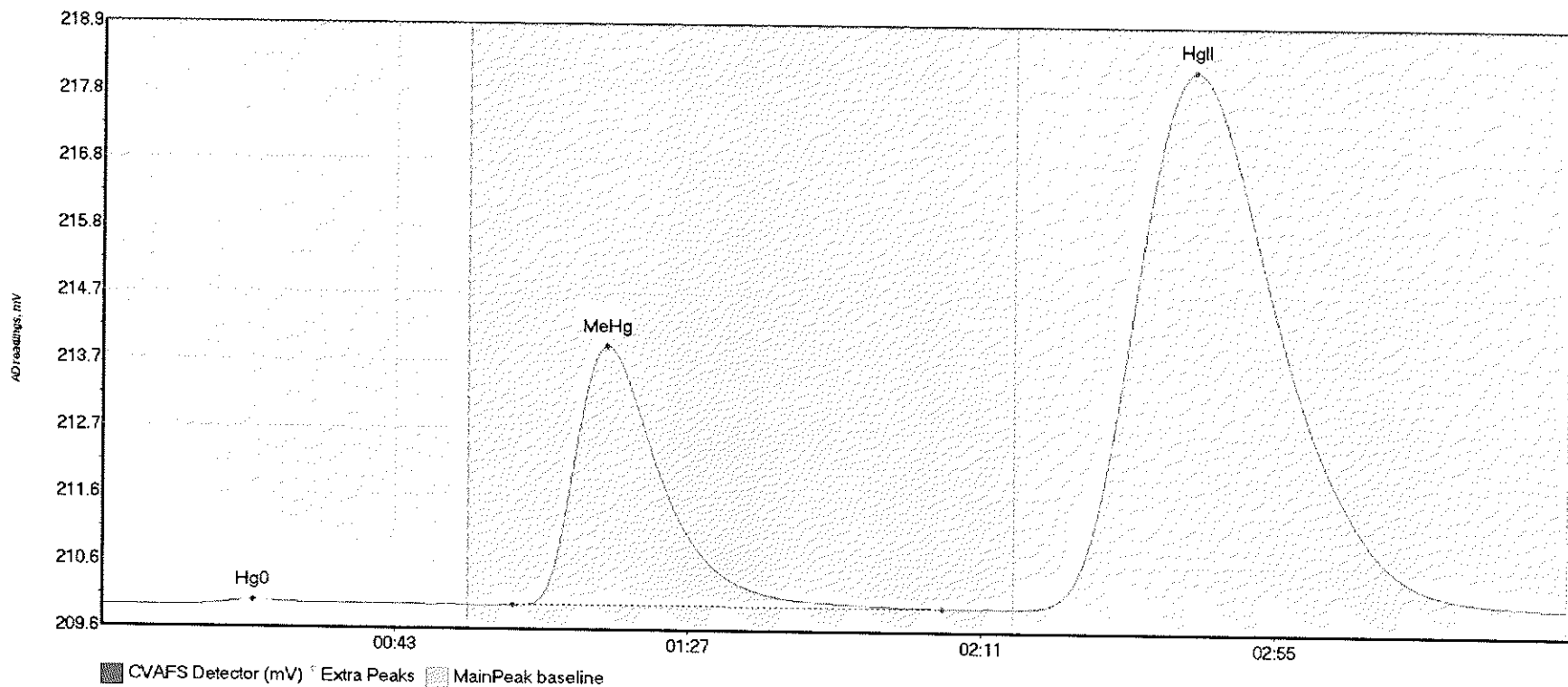
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-MS1 Hg0	9.463	11.5	53.3	209.90	209.93	22.8	0.064	OK	209.9049	0.00	0.11	
F708549-MS1 MeH	459.081	63.2	121.7	209.93	209.94	76.0	3.069	OK	209.9049	0.00	0.11	
F708549-MS1 HgI	2631.059	137.0	219.8	209.93	210.01	163.9	10.580	CT	209.9049	0.00	0.11	

#62: F708549-MSD1



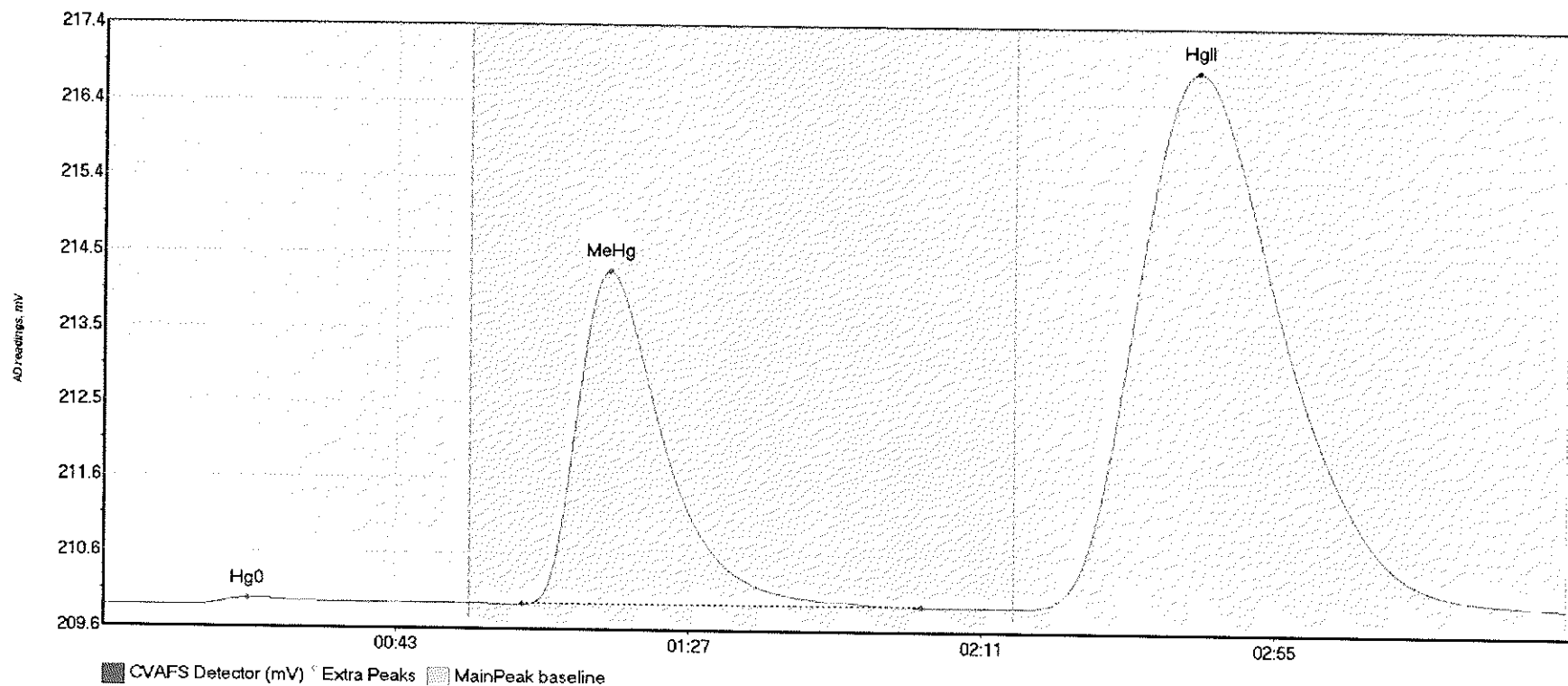
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-MSD1 Hg	10.805	13.3	54.1	209.91	209.95	22.2	0.069	OK	209.9074	0.00	0.11	
F708549-MSD1 Me	353.819	63.1	120.3	209.94	209.95	76.0	2.367	OK	209.9074	0.00	0.11	
F708549-MSD1 Hg	2443.705	136.8	219.8	209.94	210.01	164.0	9.829	CT	209.9074	0.00	0.11	

#63: F708549-MS2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F708549-MS2	Hg0	10.646	12.6	49.5	209.92	209.95	22.7	0.077	OK	209.9174	0.00	0.09	
F708549-MS2	MeH	600.003	61.7	126.1	209.95	209.95	75.9	3.977	OK	209.9174	0.00	0.09	
F708549-MS2	HgI	2050.132	137.2	219.8	209.95	210.00	163.8	8.257	CT	209.9174	0.00	0.09	

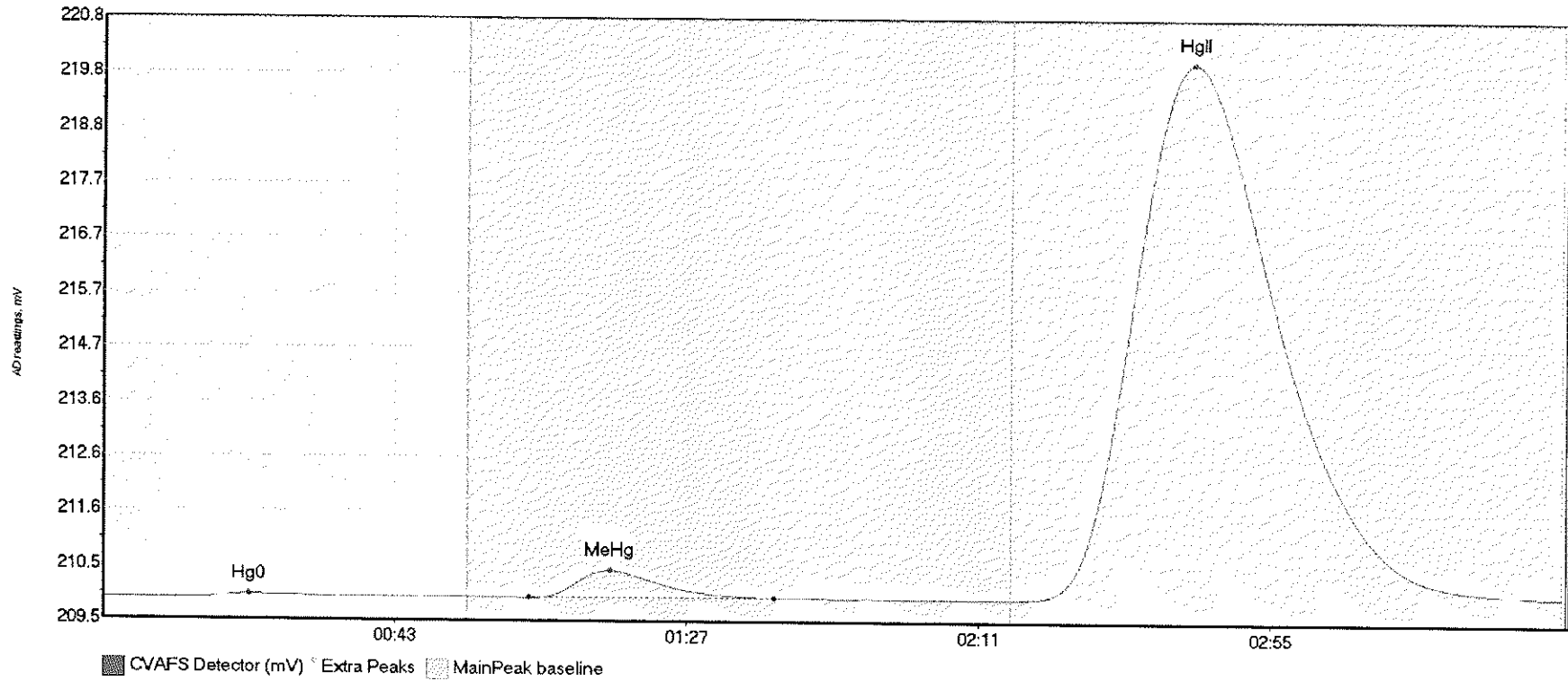
#64: F708549-MSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-MSD2 Hg	13.011	13.7	53.5	209.91	209.96	21.7	0.087	OK	209.9196	0.00	0.07	
F708549-MSD2 Me	647.409	62.9	123.0	209.95	209.95	76.0	4.292	OK	209.9196	0.00	0.07	
F708549-MSD2 Hg	1730.196	138.5	219.6	209.95	209.99	164.2	6.886	OK	209.9196	0.00	0.07	

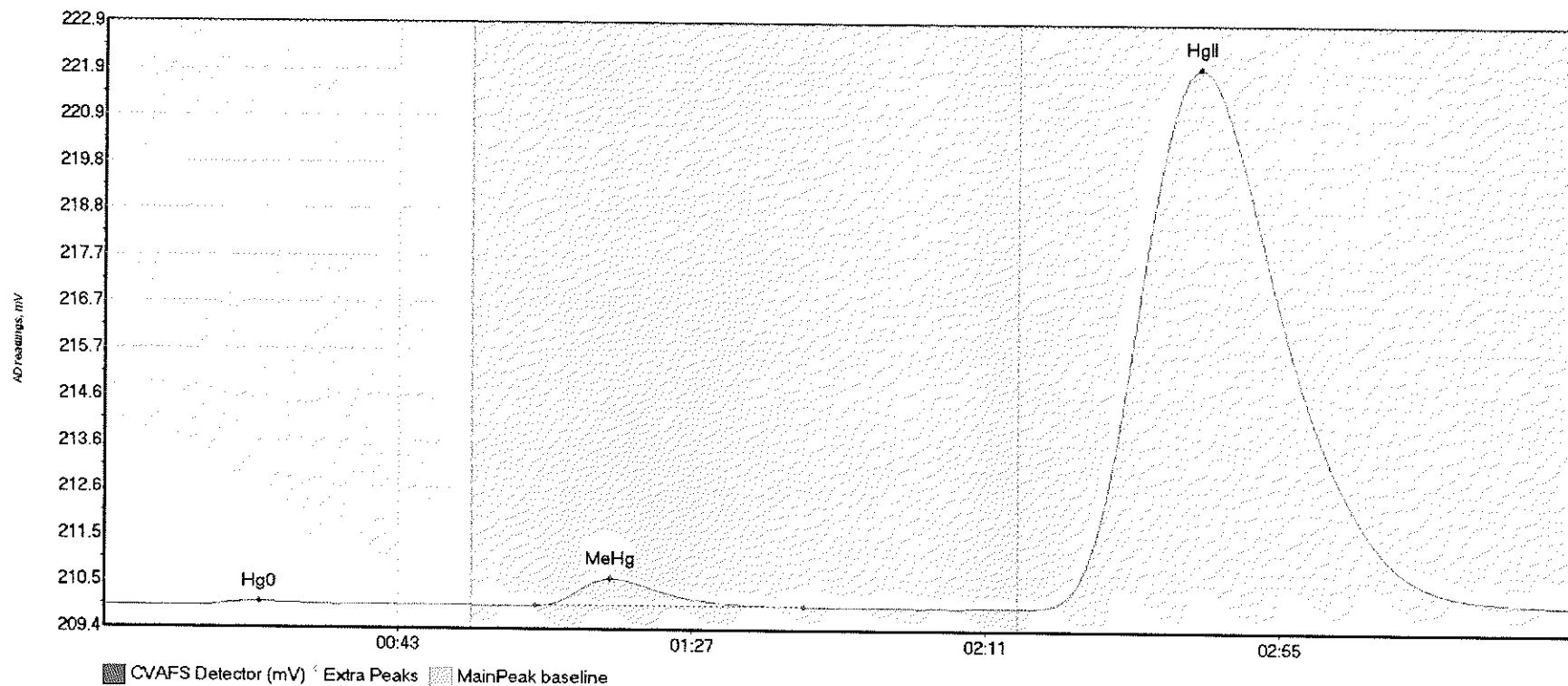


#65: 1708151-04RE1



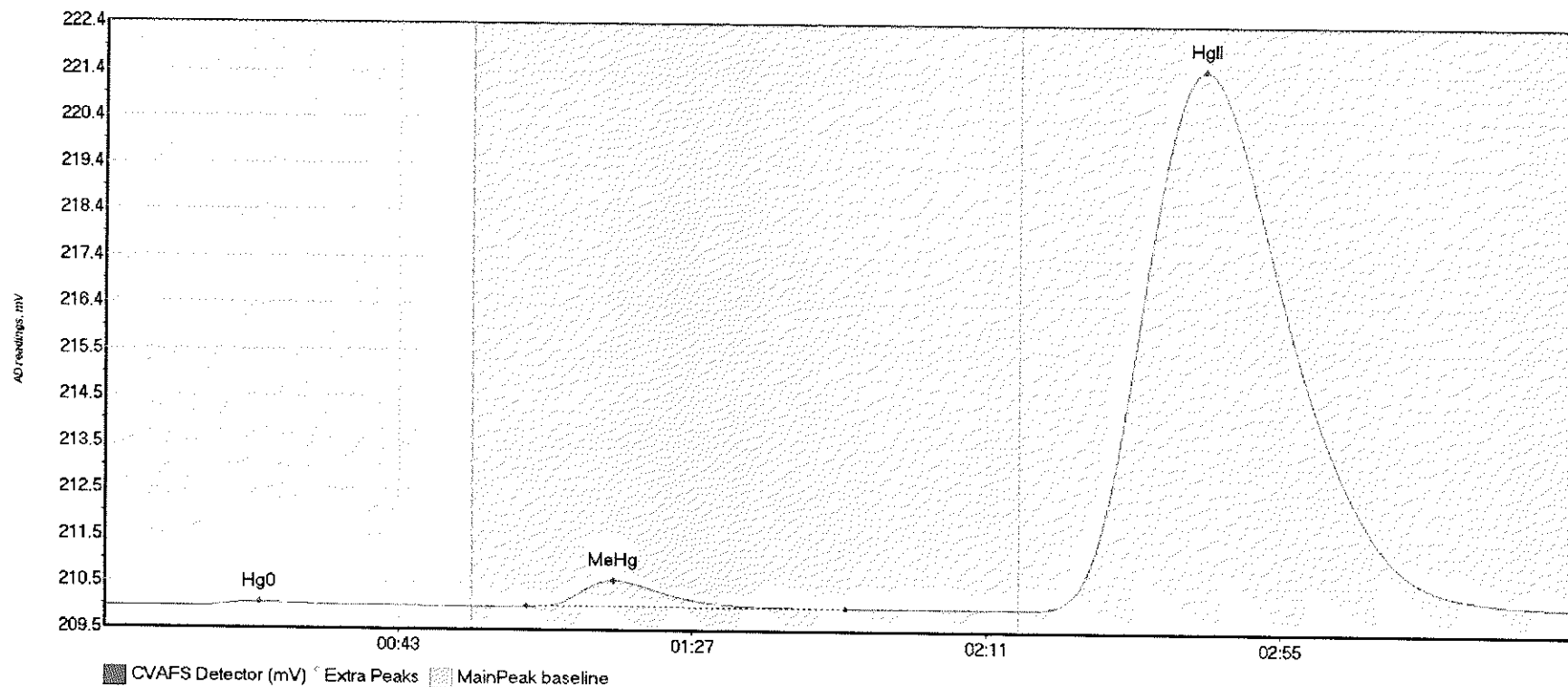
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-04RE1 H	10.559	14.4	54.9	209.92	209.95	22.0	0.073	OK	209.9199	0.00	0.11	
1708151-04RE1 M	71.862	64.3	101.2	209.94	209.96	76.4	0.512	OK	209.9199	0.00	0.11	
1708151-04RE1 H	2471.122	138.9	219.3	209.95	210.03	164.3	10.070	OK	209.9199	0.00	0.11	

#66: 1708151-05RE1



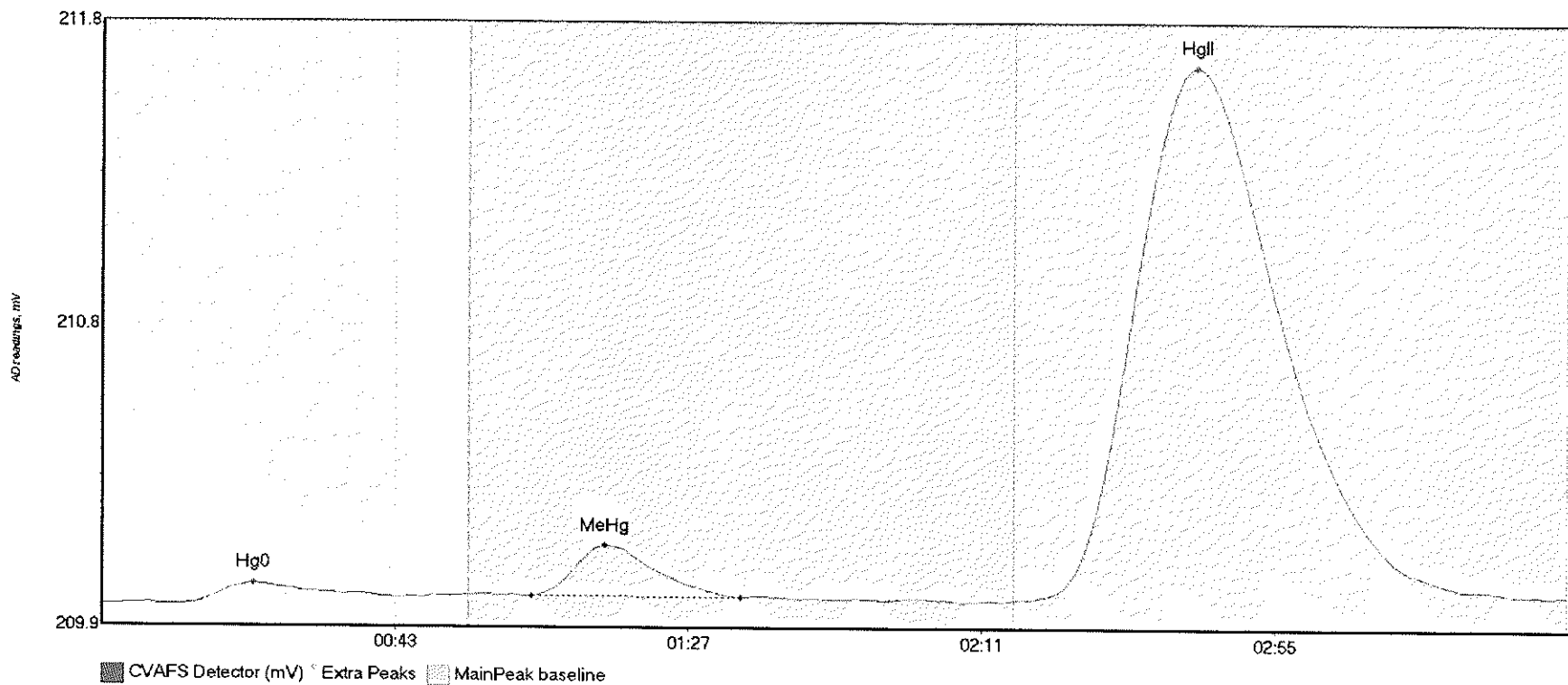
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-05RE1 H	8.232	14.2	35.0	209.92	209.96	23.3	0.087	OK	209.9208	0.00	0.13	
1708151-05RE1 M	87.298	64.6	104.7	209.95	209.96	75.9	0.602	OK	209.9208	0.00	0.13	
1708151-05RE1 H	2969.689	138.0	219.8	209.95	210.05	163.9	12.020	CT	209.9208	0.00	0.13	

#67: 1708151-06RE1



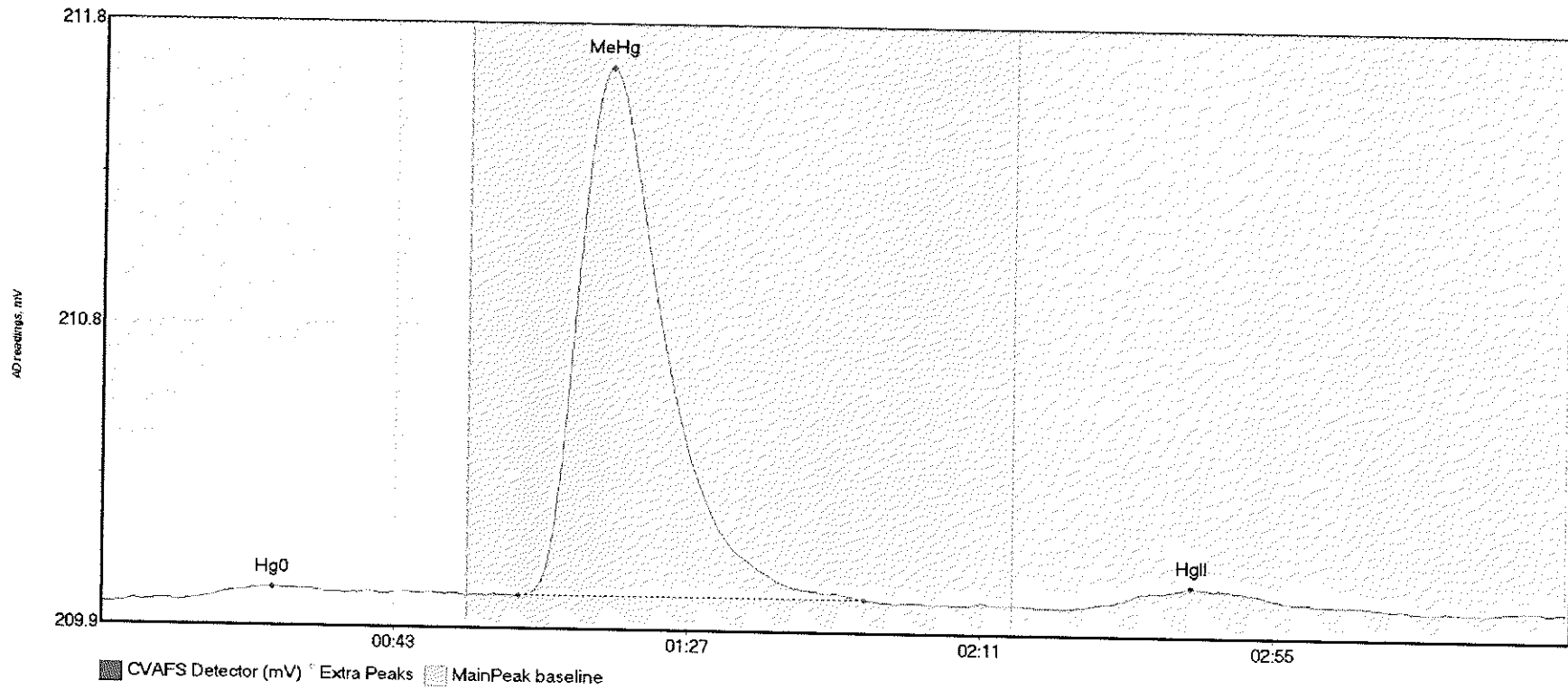
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-06RE1 H	15.293	13.2	53.9	209.93	209.95	23.2	0.093	OK	209.9270	0.00	0.13	
1708151-06RE1 M	84.978	63.2	110.9	209.96	209.95	76.2	0.572	OK	209.9270	0.00	0.13	
1708151-06RE1 H	2887.561	138.4	219.7	209.95	210.05	164.5	11.561	OK	209.9270	0.00	0.13	

#68: 1708151-07RE1



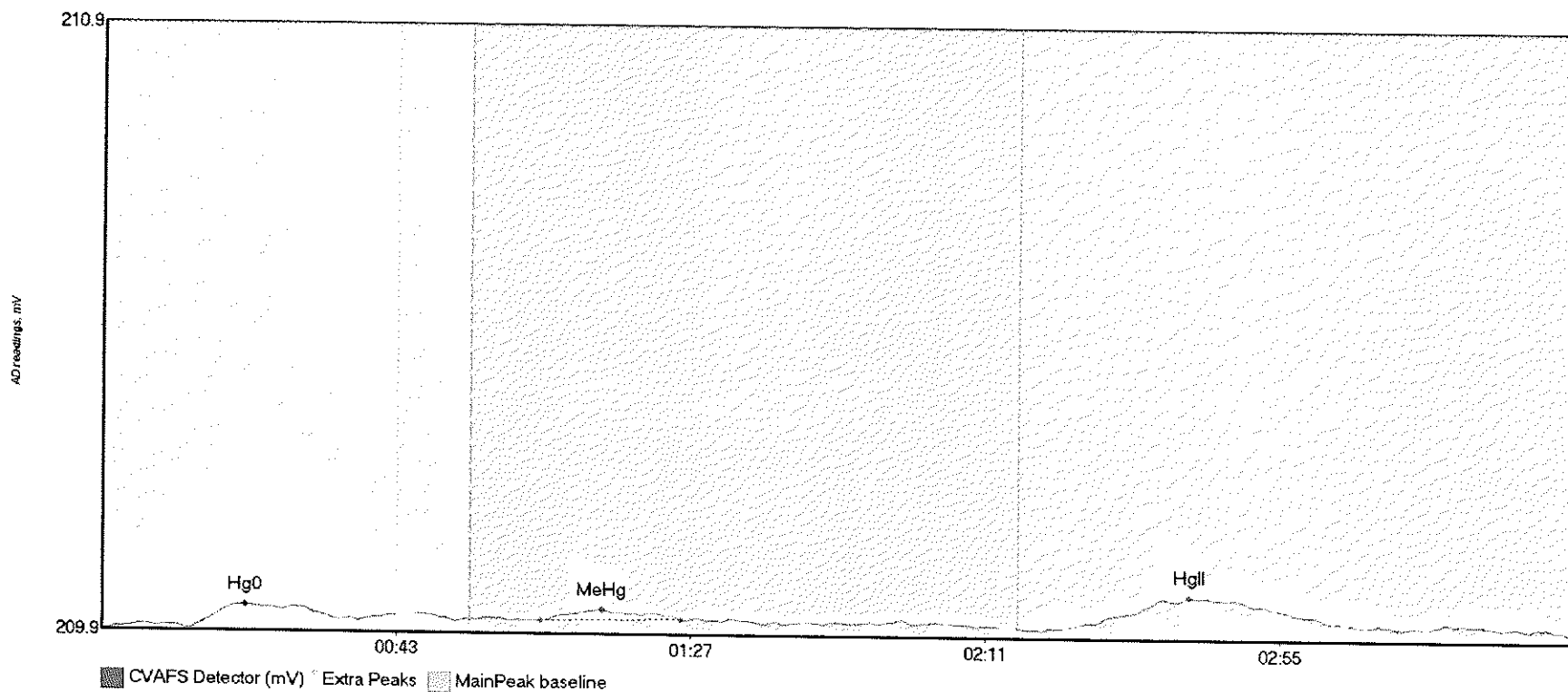
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-07RE1 H	9.016	12.0	44.3	209.93	209.96	22.7	0.069	OK	209.9311	0.00	0.04	
1708151-07RE1 M	22.919	64.4	95.9	209.96	209.96	75.4	0.164	OK	209.9311	0.00	0.04	
1708151-07RE1 H	427.528	139.2	216.6	209.95	209.97	164.1	1.712	OK	209.9311	0.00	0.04	

#69: SEQ-CCV5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	8.033	2.5	54.8	209.93	209.97	25.7	0.051	OK	209.9303	0.00	0.02	
SEQ-CCV5 MeHg	251.171	62.7	114.6	209.97	209.97	76.1	1.684	OK	209.9303	0.00	0.02	
SEQ-CCV5 HgII	13.160	147.2	191.5	209.95	209.96	163.7	0.066	OK	209.9303	0.00	0.02	

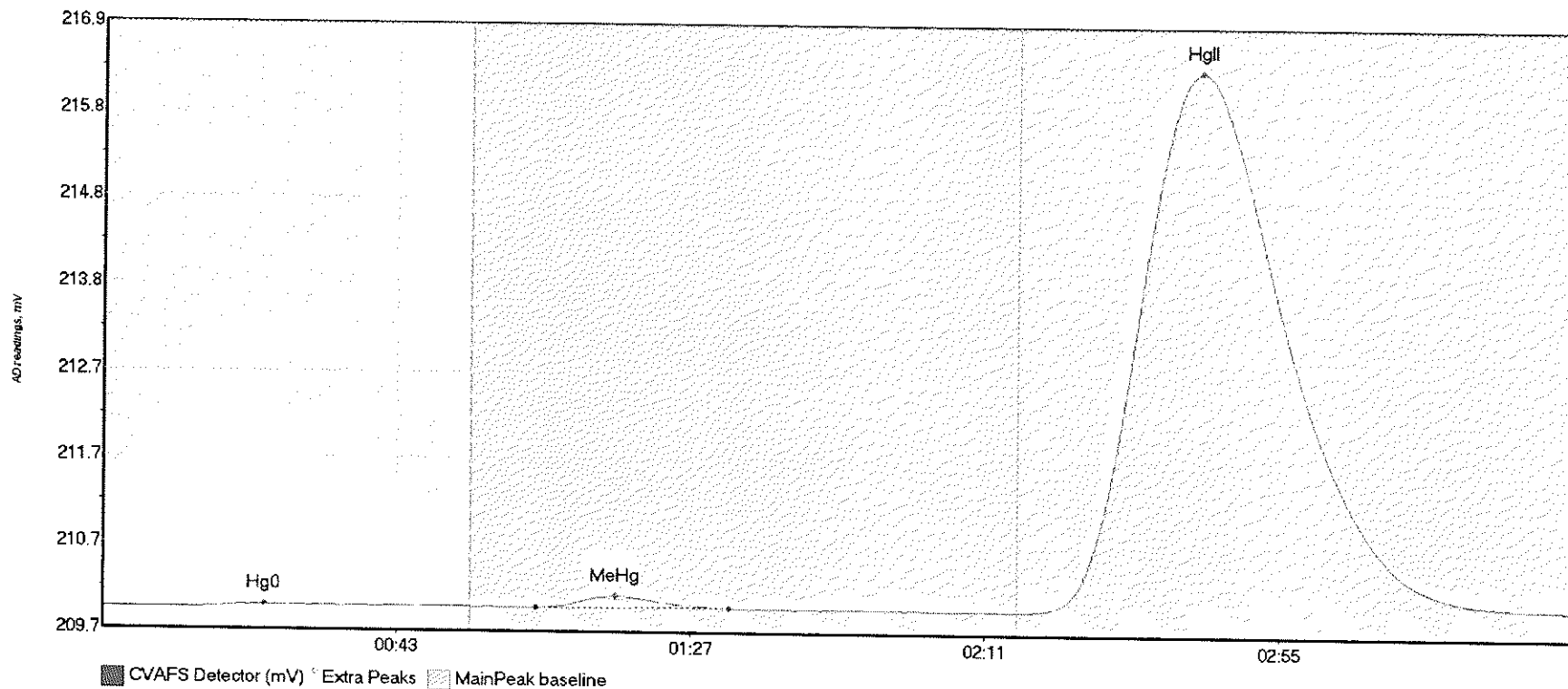
#70: SEQ-CCB5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB5 Hg0	7.087	13.1	52.7	209.93	209.94	21.4	0.039	OK	209.9278	0.00	0.01	
SEQ-CCB5 MeHg	2.131	65.6	86.5	209.95	209.95	74.7	0.019	OK	209.9278	0.00	0.01	
SEQ-CCB5 HgII	12.373	144.0	193.2	209.94	209.94	162.4	0.052	OK	209.9278	0.00	0.01	

017

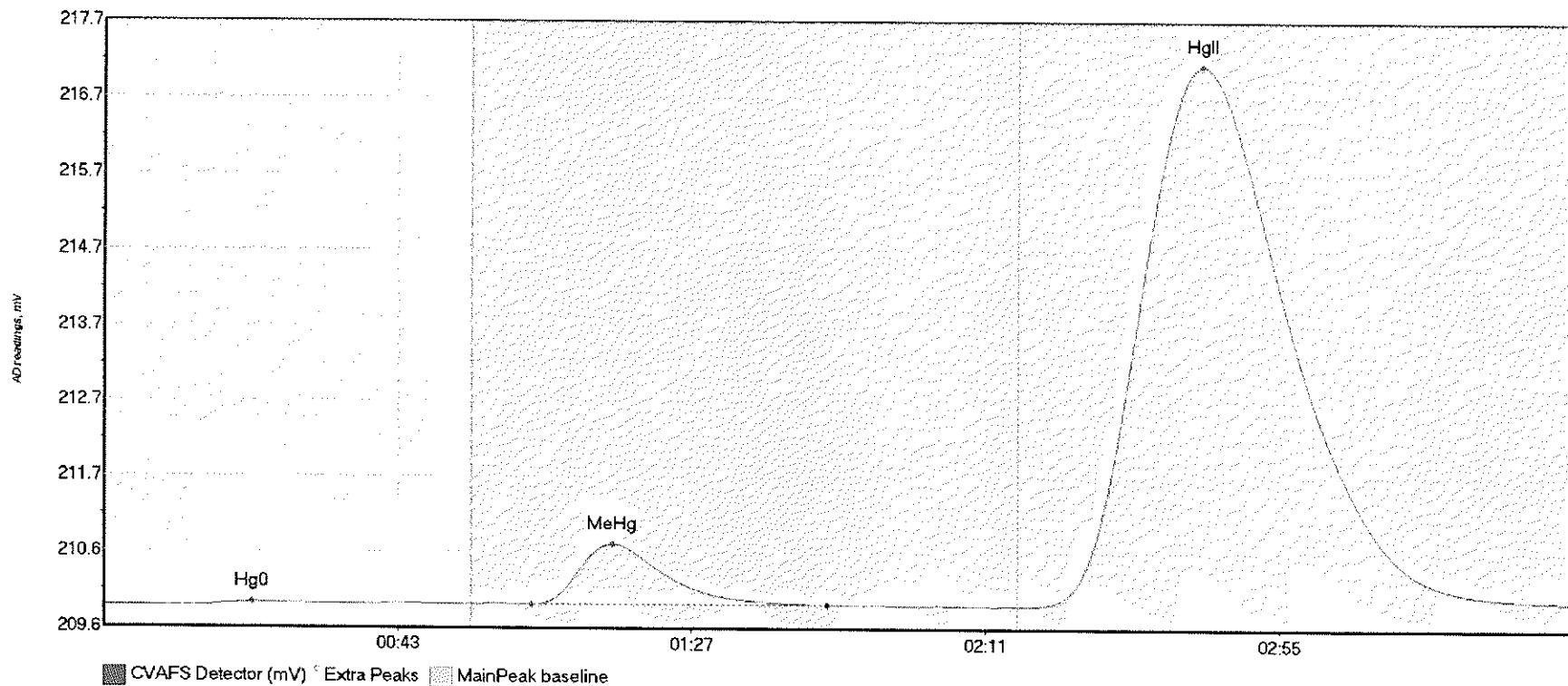
#71: 1708151-08RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1708151-08RE1 H	2.811	13.2	35.6	209.92	209.95	24.1	0.038	OK	209.9189	0.00	0.07	
1708151-08RE1 M	17.857	64.8	93.7	209.94	209.95	76.7	0.139	OK	209.9189	0.00	0.07	
1708151-08RE1 H	1586.166	138.2	219.7	209.94	209.99	164.1	6.409	OK	209.9189	0.00	0.07	

017

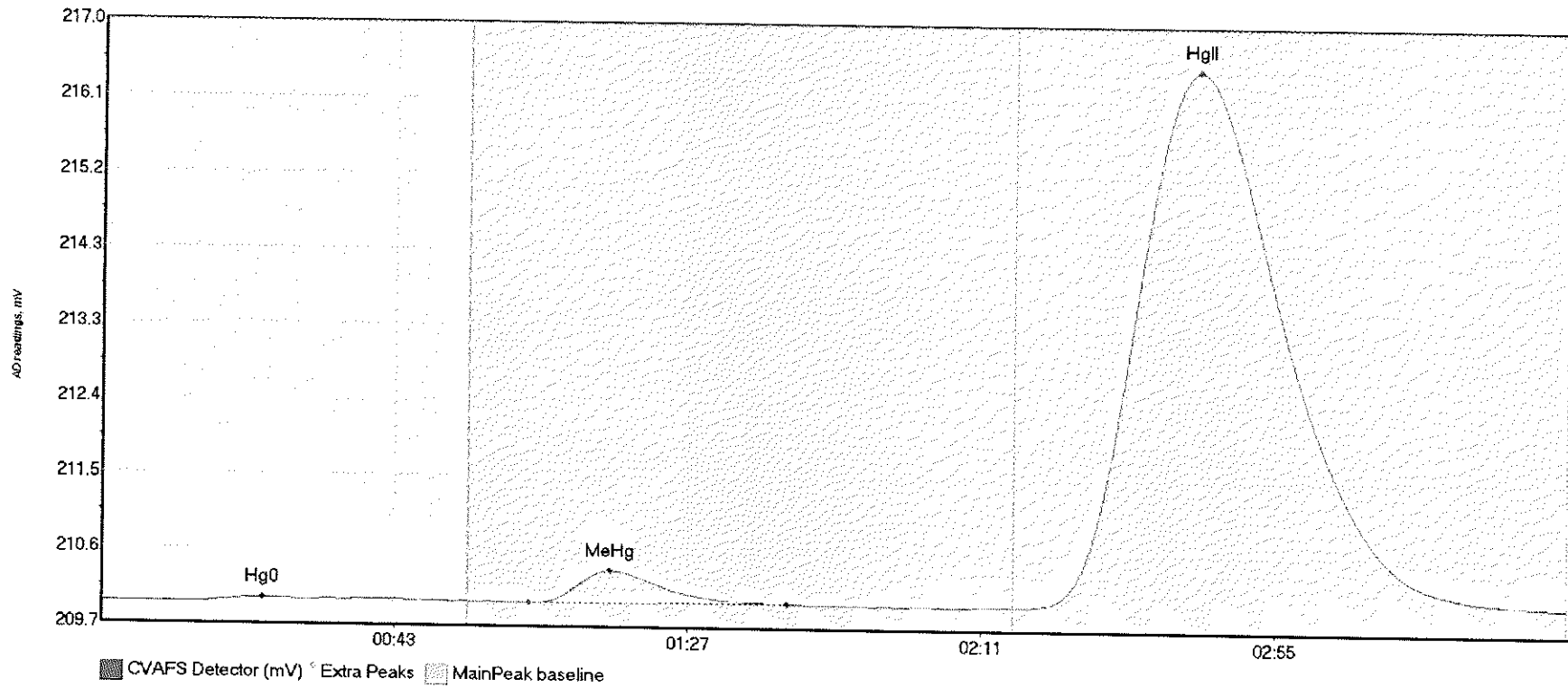
#72: 1708151-09RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
1708151-09RE1 H	4.810	14.3	36.4	209.93	209.96	22.2	0.051	OK	209.9335	0.00	0.08	
1708151-09RE1 M	117.800	64.0	108.3	209.96	209.96	76.1	0.799	OK	209.9335	0.00	0.08	
1708151-09RE1 H	1799.818	139.3	219.8	209.95	210.01	164.2	7.155	CT	209.9335	0.00	0.08	

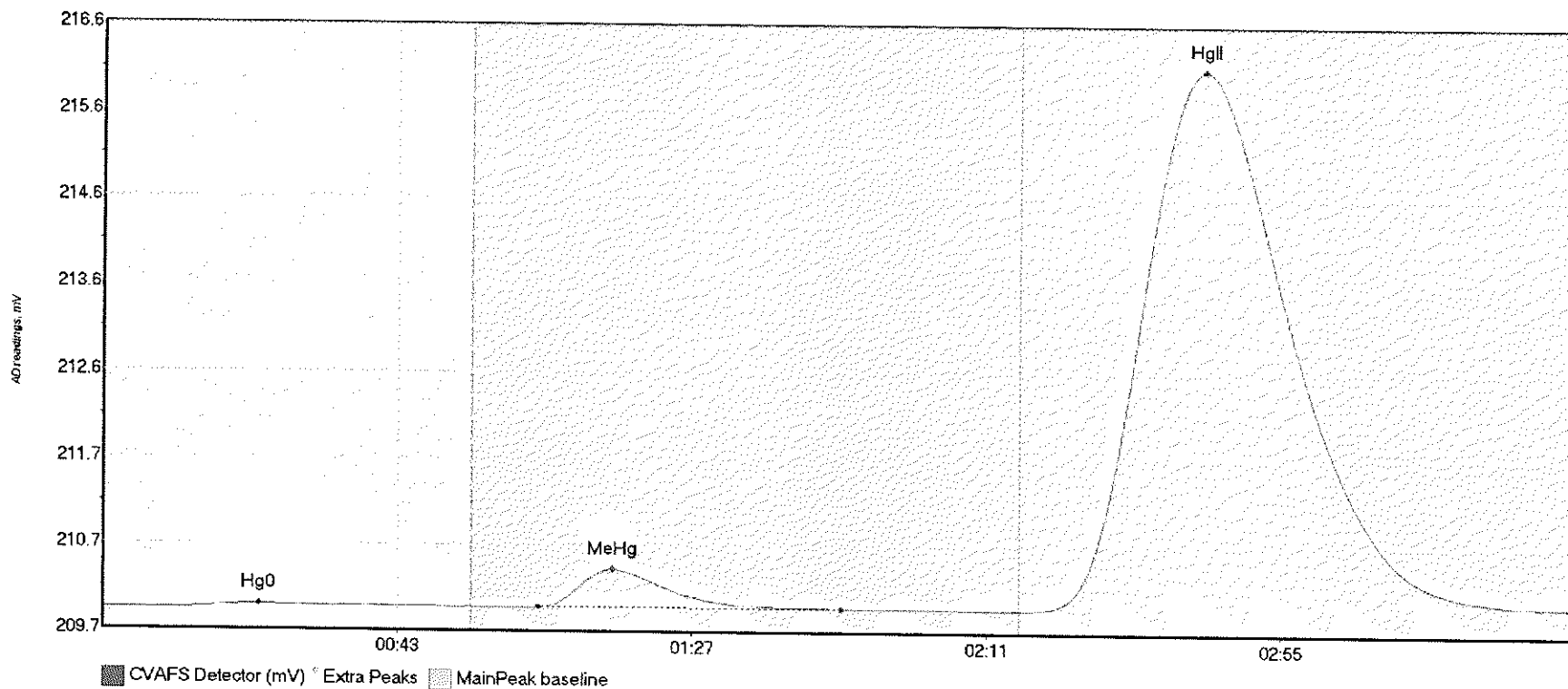


#73: 1708151-10RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-10RE1 H	8.475	15.1	52.8	209.93	209.96	24.1	0.047	OK	209.9327	0.00	0.07	
1708151-10RE1 M	55.626	64.1	102.9	209.95	209.96	76.3	0.393	OK	209.9327	0.00	0.07	
1708151-10RE1 H	1628.828	137.5	218.4	209.95	210.00	164.3	6.529	OK	209.9327	0.00	0.07	

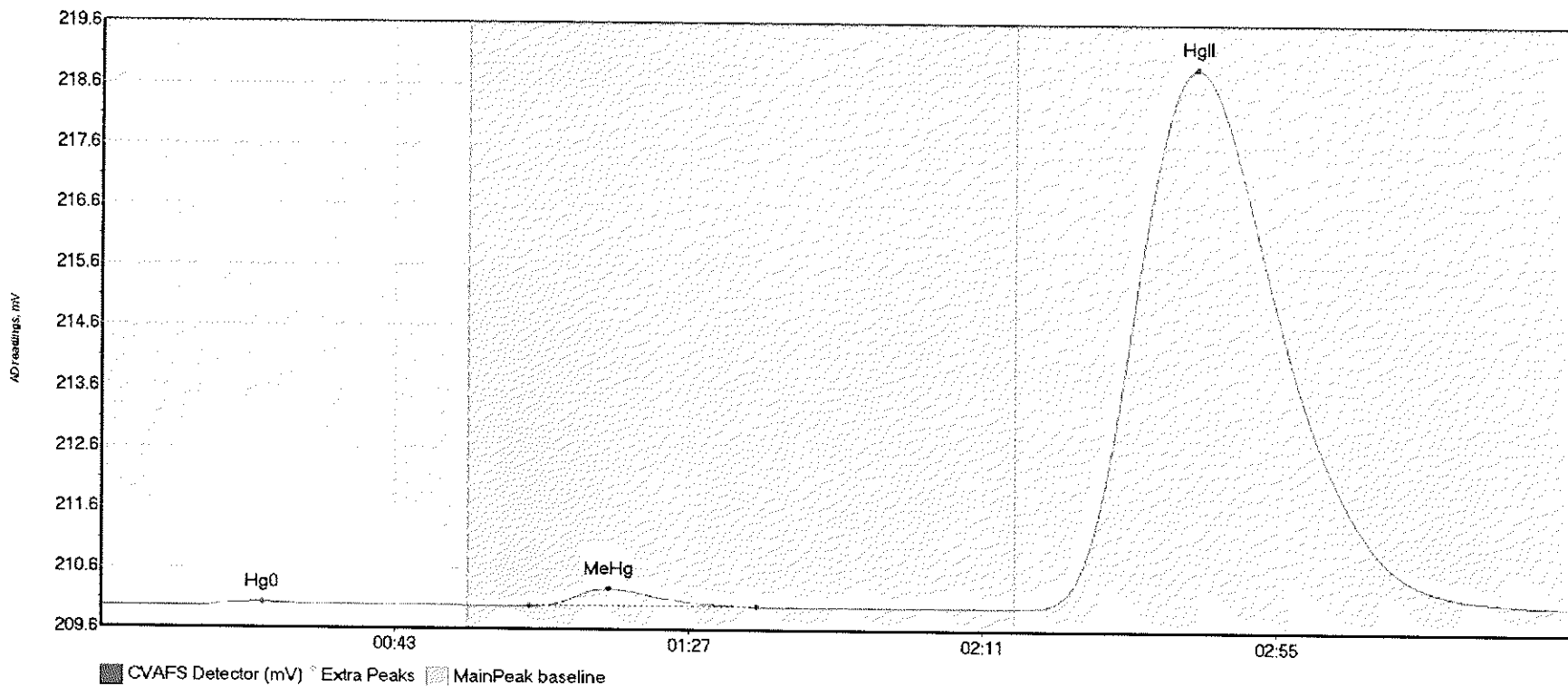
#74: 1708151-11RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-11RE1 H	7.699	12.1	52.0	209.94	209.96	23.3	0.044	OK	209.9348	0.00	0.07	
1708151-11RE1 M	65.132	65.0	110.3	209.96	209.96	76.1	0.432	OK	209.9348	0.00	0.07	
1708151-11RE1 H	1534.103	139.3	219.7	209.96	210.01	164.3	6.118	OK	209.9348	0.00	0.07	

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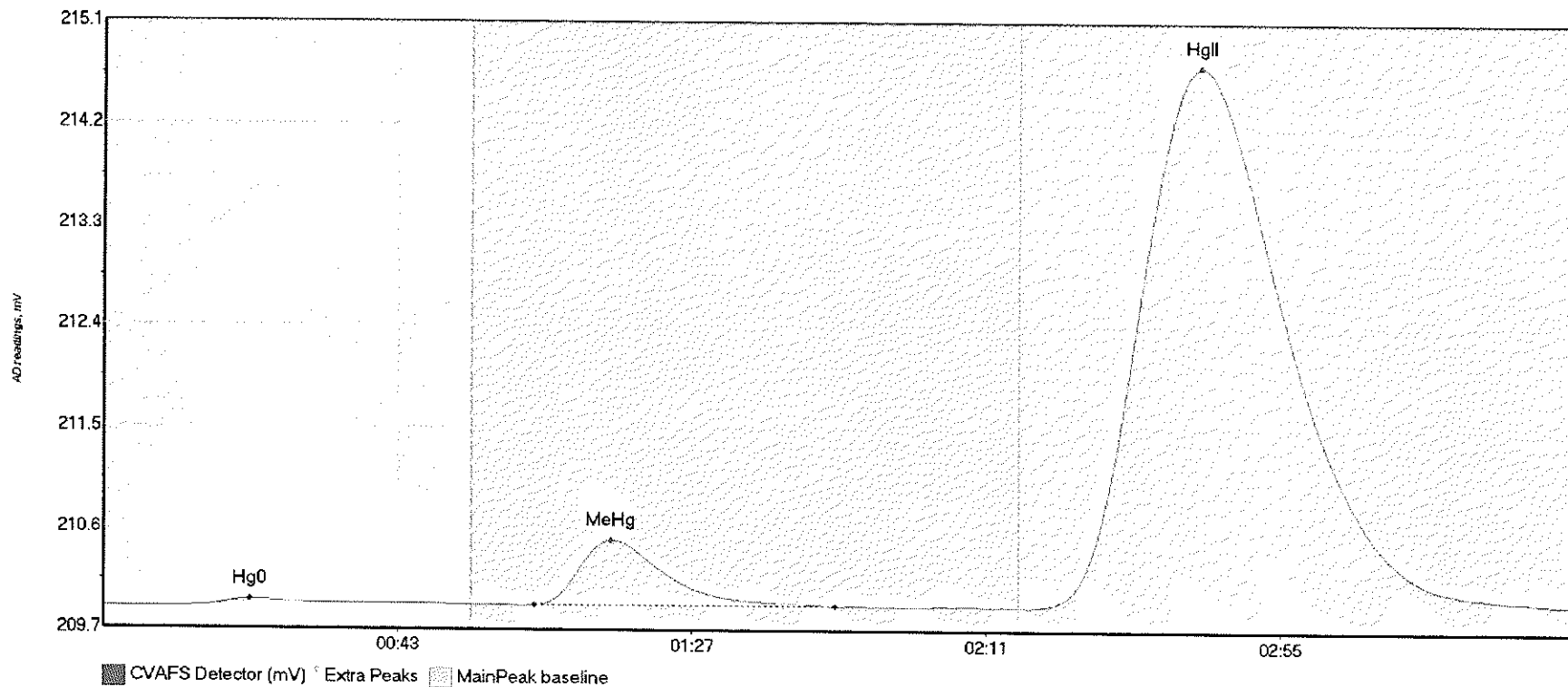
#75: 1708151-12RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-12RE1 H	10.448	13.5	55.0	209.93	209.96	24.1	0.066	CT	209.9381	0.00	0.09	
1708151-12RE1 M	40.423	64.2	98.2	209.96	209.96	76.0	0.291	OK	209.9381	0.00	0.09	
1708151-12RE1 H	2220.240	137.4	219.8	209.96	210.03	163.9	8.968	CT	209.9381	0.00	0.09	

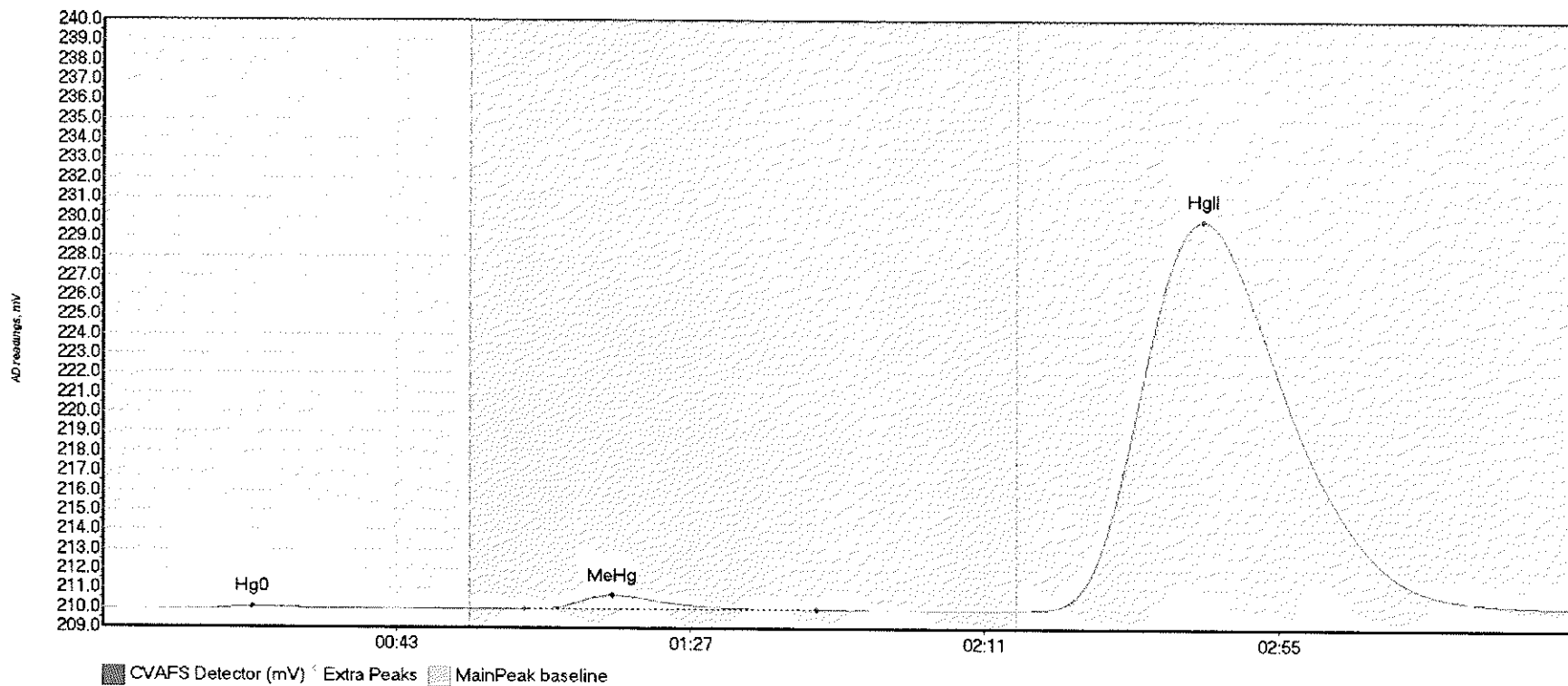
017

#76: 1708151-13RE1



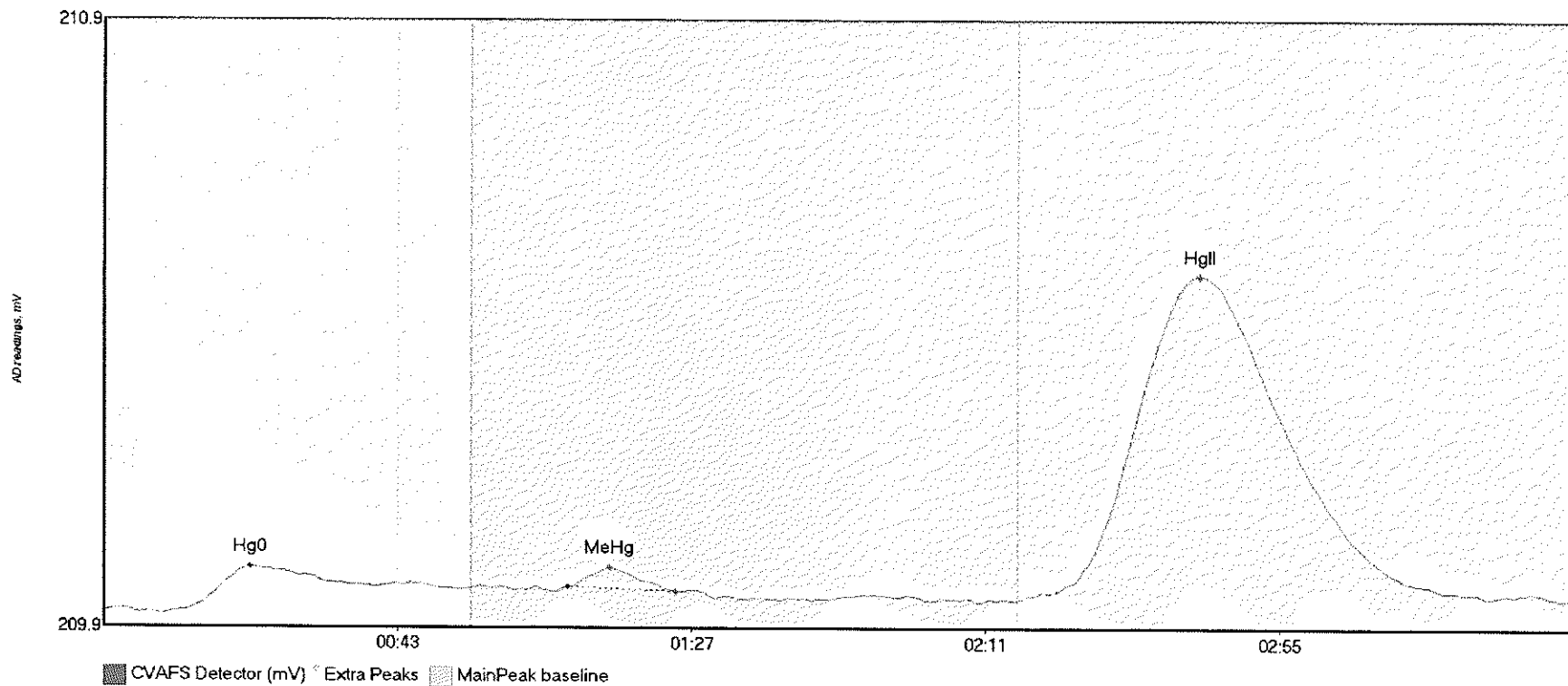
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-13RE1 H	9.355	9.3	52.5	209.93	209.95	21.9	0.065	OK	209.9258	0.00	0.05	
1708151-13RE1 M	85.827	64.4	109.4	209.95	209.95	75.9	0.574	OK	209.9258	0.00	0.05	
1708151-13RE1 H	1182.635	138.3	219.8	209.94	209.98	163.9	4.770	CT	209.9258	0.00	0.05	

#77: 1708151-14RE1



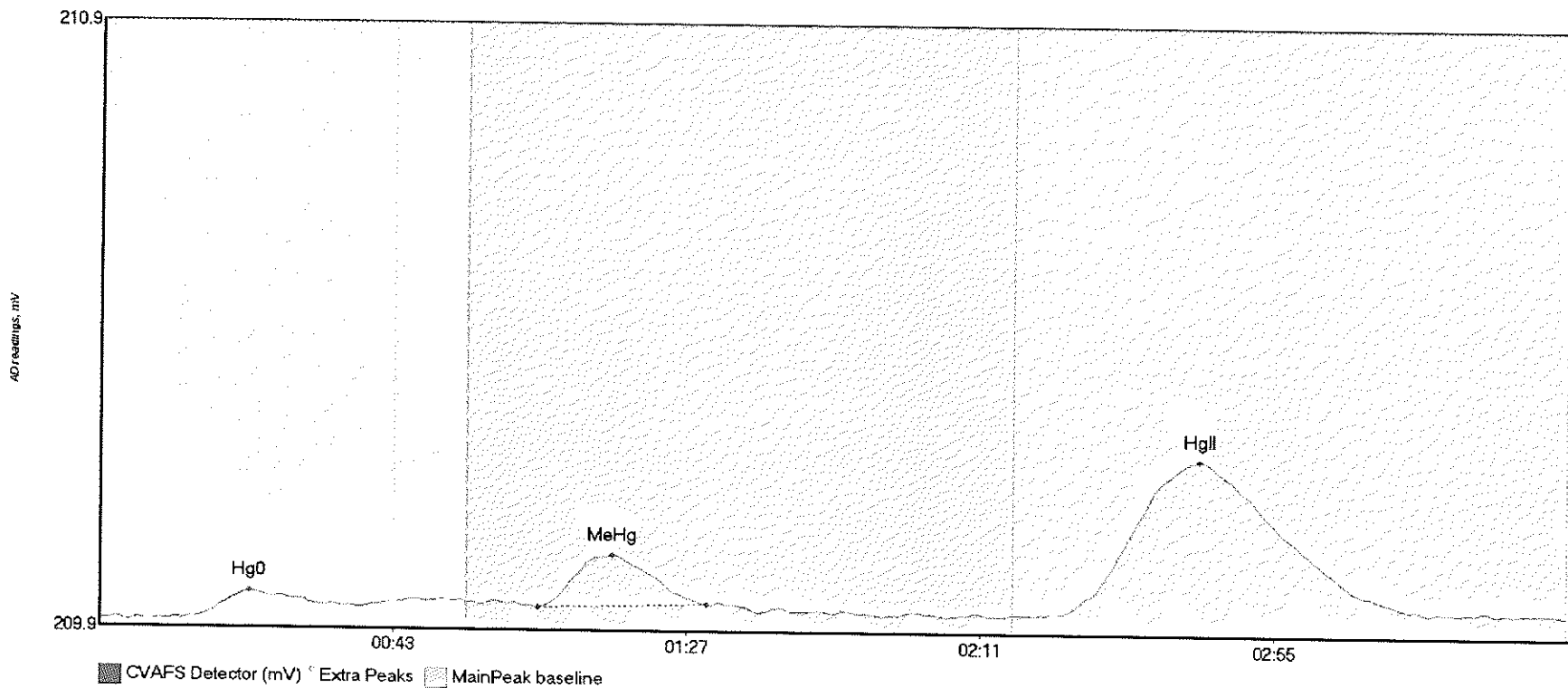
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-14RE1 H	17.757	13.8	55.0	209.92	209.96	22.4	0.120	CT	209.9260	0.00	0.19	
1708151-14RE1 M	104.031	63.1	106.9	209.96	209.96	76.3	0.707	OK	209.9260	0.00	0.19	
1708151-14RE1 H	4972.200	137.8	219.8	209.95	210.11	164.6	19.903	CT	209.9260	0.00	0.19	

#78: 1708151-15RE1



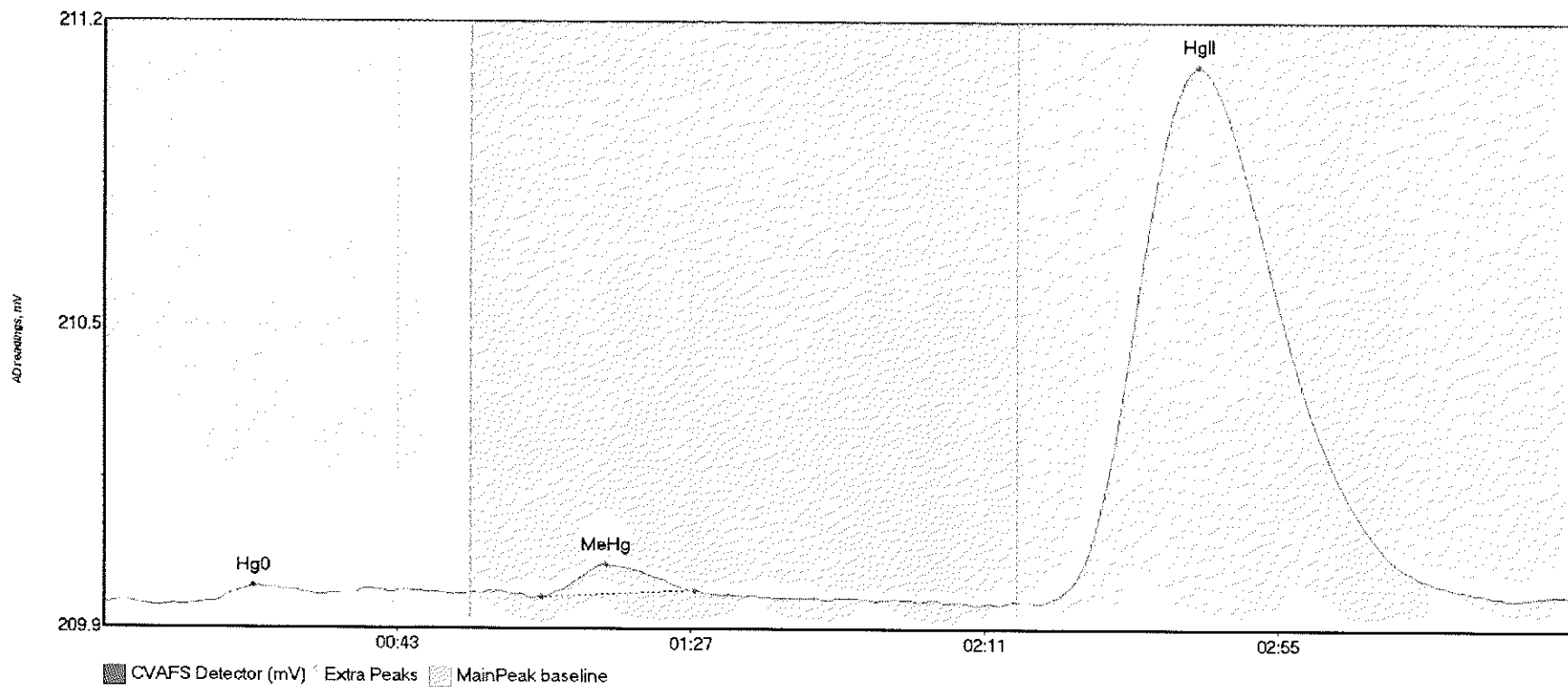
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-15RE1 H	11.545	12.4	52.9	209.92	209.96	22.0	0.071	OK	209.9203	0.00	0.02	
1708151-15RE1 M	2.853	69.4	85.6	209.96	209.95	75.8	0.033	OK	209.9203	0.00	0.02	
1708151-15RE1 H	134.487	136.8	207.3	209.94	209.94	164.0	0.535	OK	209.9203	0.00	0.02	

#79: 1708151-16RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-16RE1 H	4.263	14.1	39.3	209.93	209.95	22.4	0.044	OK	209.9253	0.00	0.02	
1708151-16RE1 M	10.945	65.7	91.0	209.95	209.95	76.9	0.087	OK	209.9253	0.00	0.02	
1708151-16RE1 H	63.344	144.0	219.2	209.94	209.95	164.7	0.255	OK	209.9253	0.00	0.02	

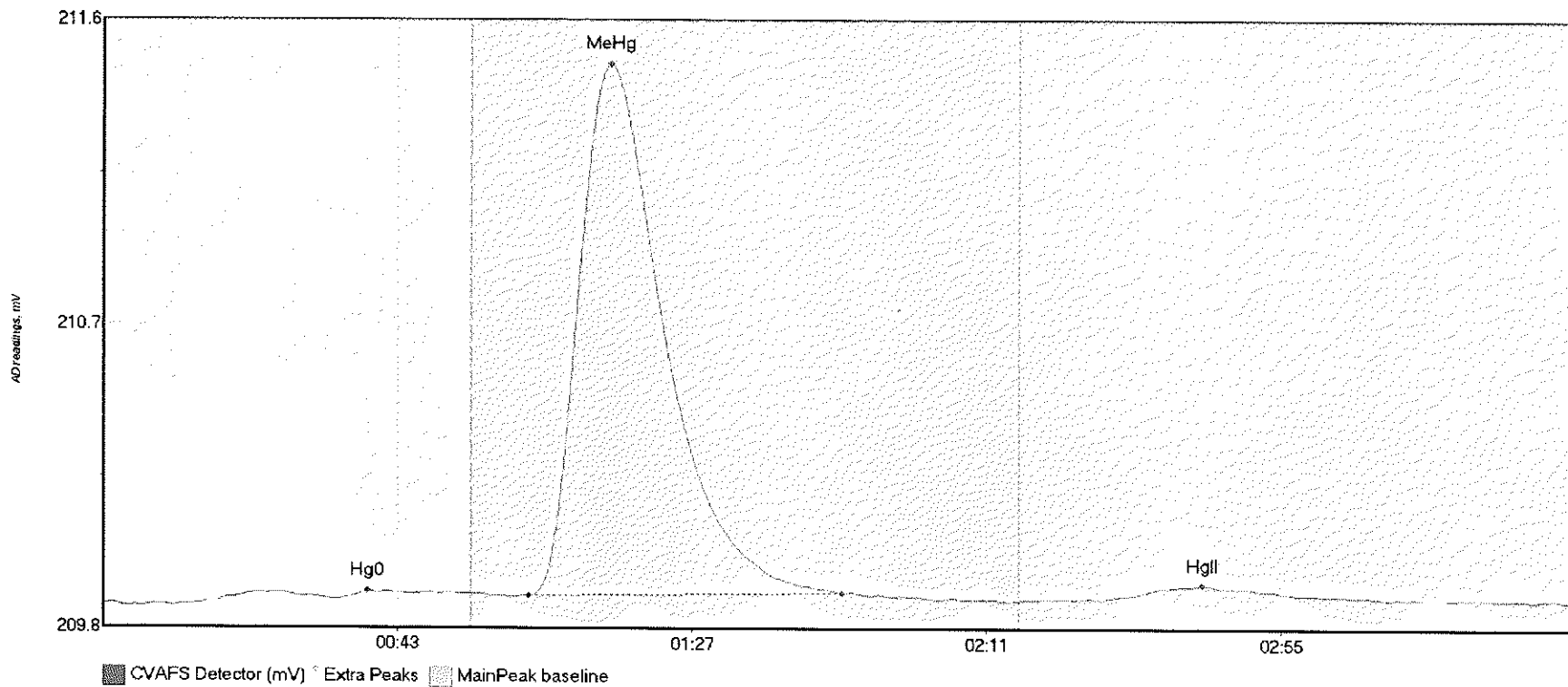
#80: 1708151-17RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-17RE1 H	2.390	16.6	32.1	209.93	209.95	22.5	0.034	OK	209.9296	0.00	0.02	
1708151-17RE1 M	7.430	65.6	88.6	209.94	209.96	75.3	0.069	OK	209.9296	0.00	0.02	
1708151-17RE1 H	279.447	140.2	211.9	209.93	209.94	163.9	1.130	OK	209.9296	0.00	0.02	

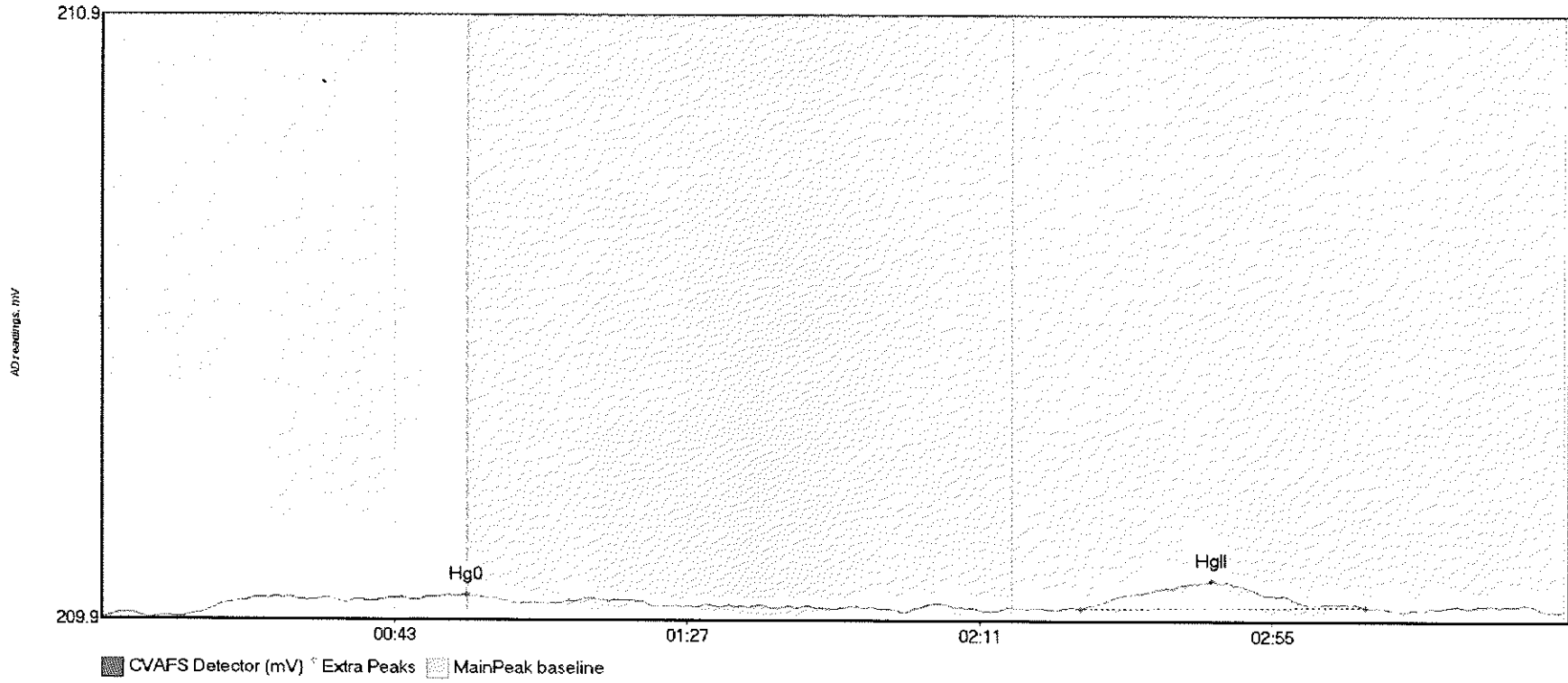


#81: SEQ-CCV6



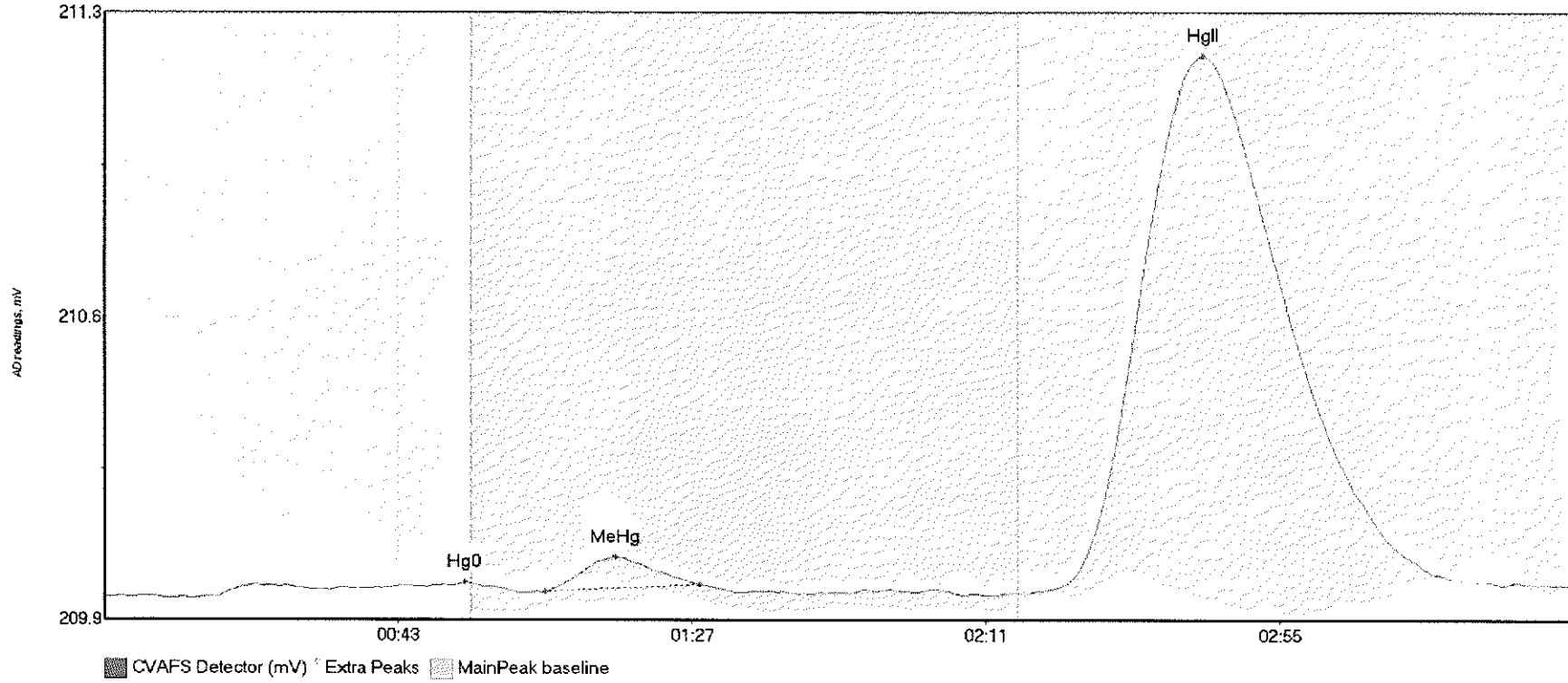
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV6 Hg0	3.049	14.1	45.6	209.92	209.94	39.6	0.036	OK	209.9138	0.00	0.01	
SEQ-CCV6 MeHg	231.450	63.6	110.5	209.94	209.95	75.9	1.575	OK	209.9138	0.00	0.01	
SEQ-CCV6 HgII	8.989	149.0	192.0	209.93	209.93	164.2	0.044	OK	209.9138	0.00	0.01	

#82: SEQ-CCB6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB6 Hg0	3.989	12.1	55.0	209.91	209.95	54.9	0.037	CT	209.9102	0.00	0.01	
SEQ-CCB6 HgII	9.449	147.2	190.1	209.93	209.93	166.9	0.046	OK	209.9102	0.00	0.01	017

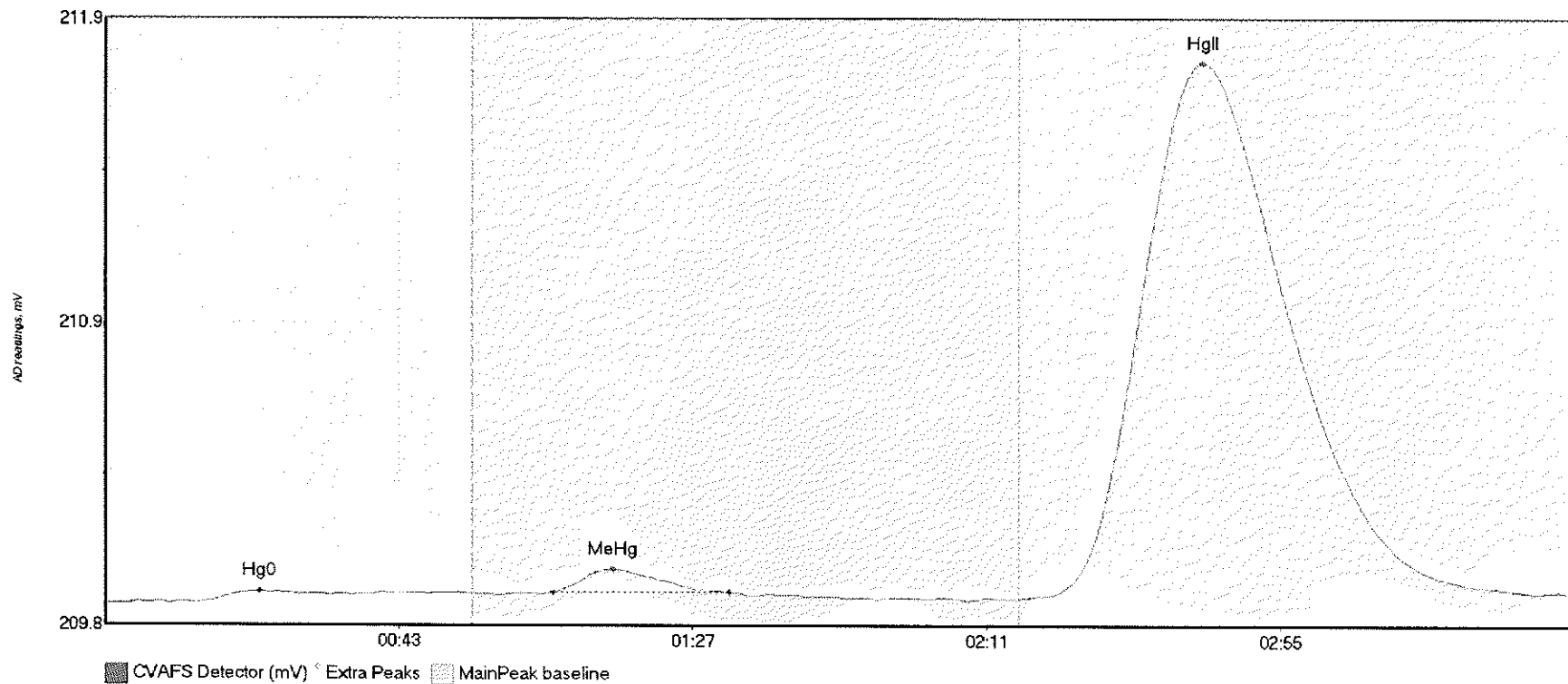
#83: 1708151-18RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-18RE1 H	2.575	16.8	55.0	209.92	209.95	54.0	0.033	CT	209.9161	0.00	0.03	
1708151-18RE1 M	8.828	66.0	89.2	209.93	209.95	76.6	0.082	OK	209.9161	0.00	0.03	
1708151-18RE1 H	309.953	140.5	217.0	209.93	209.94	164.5	1.256	OK	209.9161	0.00	0.03	

017

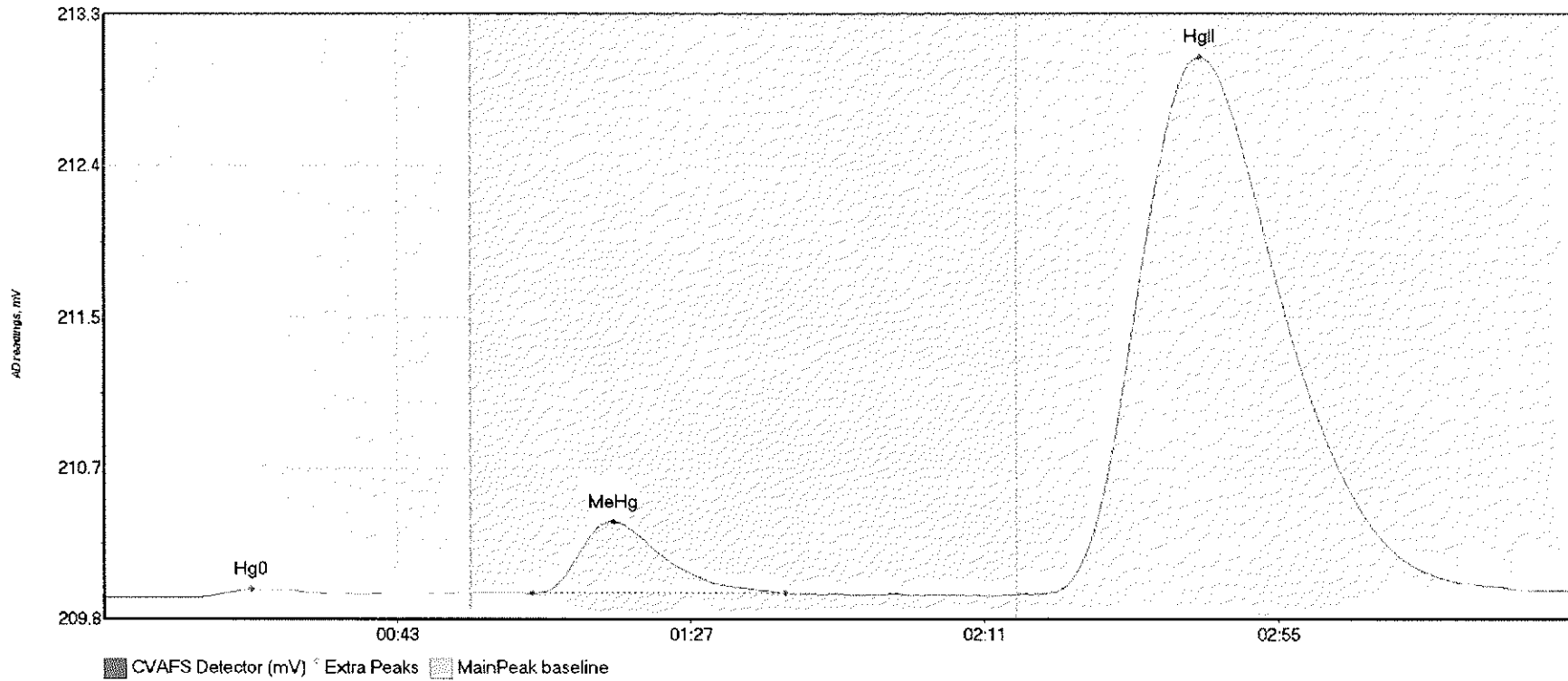
#84: 1708151-19RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-19RE1 H	2.567	14.0	33.8	209.92	209.95	23.2	0.036	OK	209.9203	0.00	0.03	
1708151-19RE1 M	9.936	67.1	93.5	209.96	209.96	76.1	0.079	OK	209.9203	0.00	0.03	
1708151-19RE1 H	454.211	137.4	219.8	209.94	209.95	164.3	1.815	CT	209.9203	0.00	0.03	

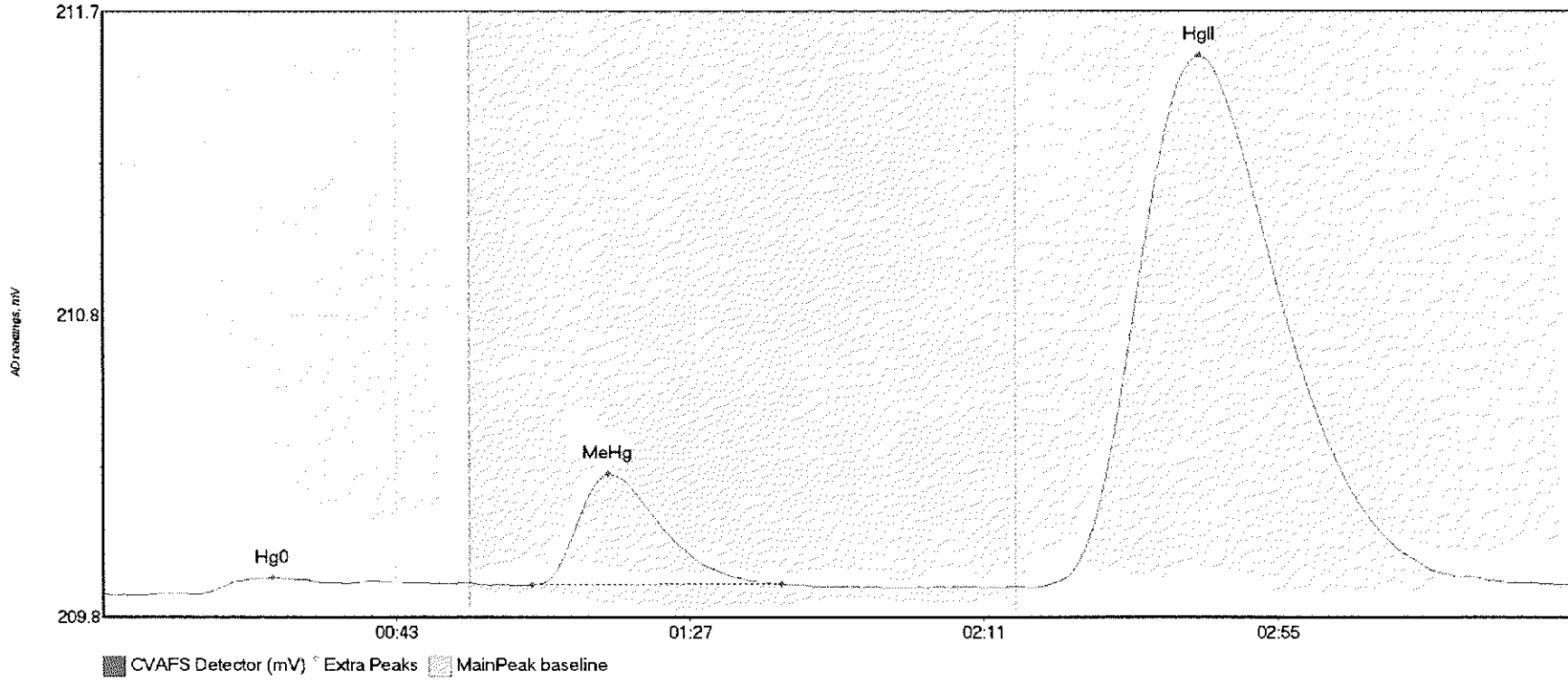
017

#85: 1708151-20RE1



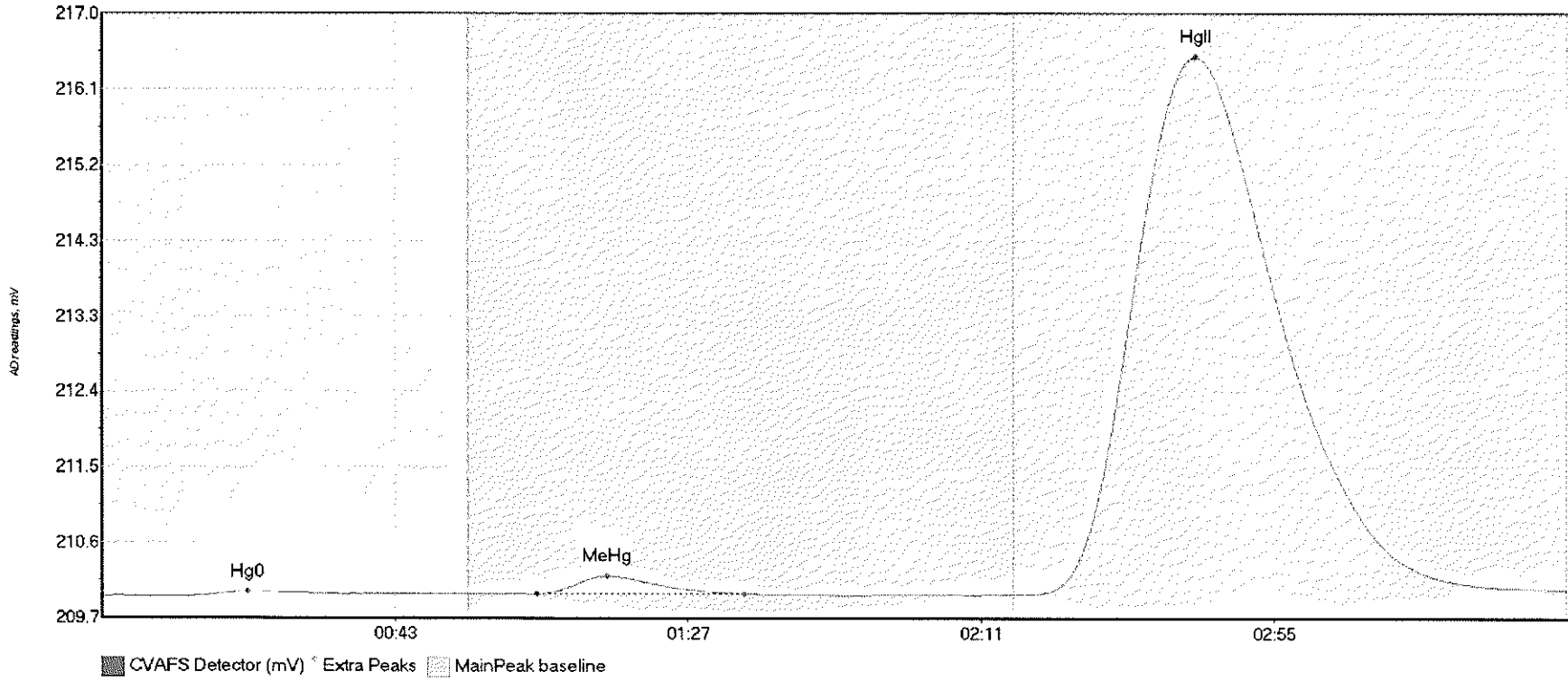
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-20RE1 H	5.191	14.6	38.2	209.93	209.95	22.2	0.045	OK	209.9317	0.00	0.04	
1708151-20RE1 M	58.762	64.2	102.2	209.95	209.96	76.4	0.407	OK	209.9317	0.00	0.04	
1708151-20RE1 H	762.636	140.2	217.8	209.95	209.97	164.2	3.056	OK	209.9317	0.00	0.04	

#86: 1708151-21RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-21RE1 H	4.713	14.0	36.7	209.92	209.95	25.5	0.052	OK	209.9188	0.00	0.03	
1708151-21RE1 M	50.013	64.3	101.8	209.95	209.95	75.8	0.349	OK	209.9188	0.00	0.03	
1708151-21RE1 H	413.336	139.1	219.0	209.94	209.95	164.3	1.664	OK	209.9188	0.00	0.03	

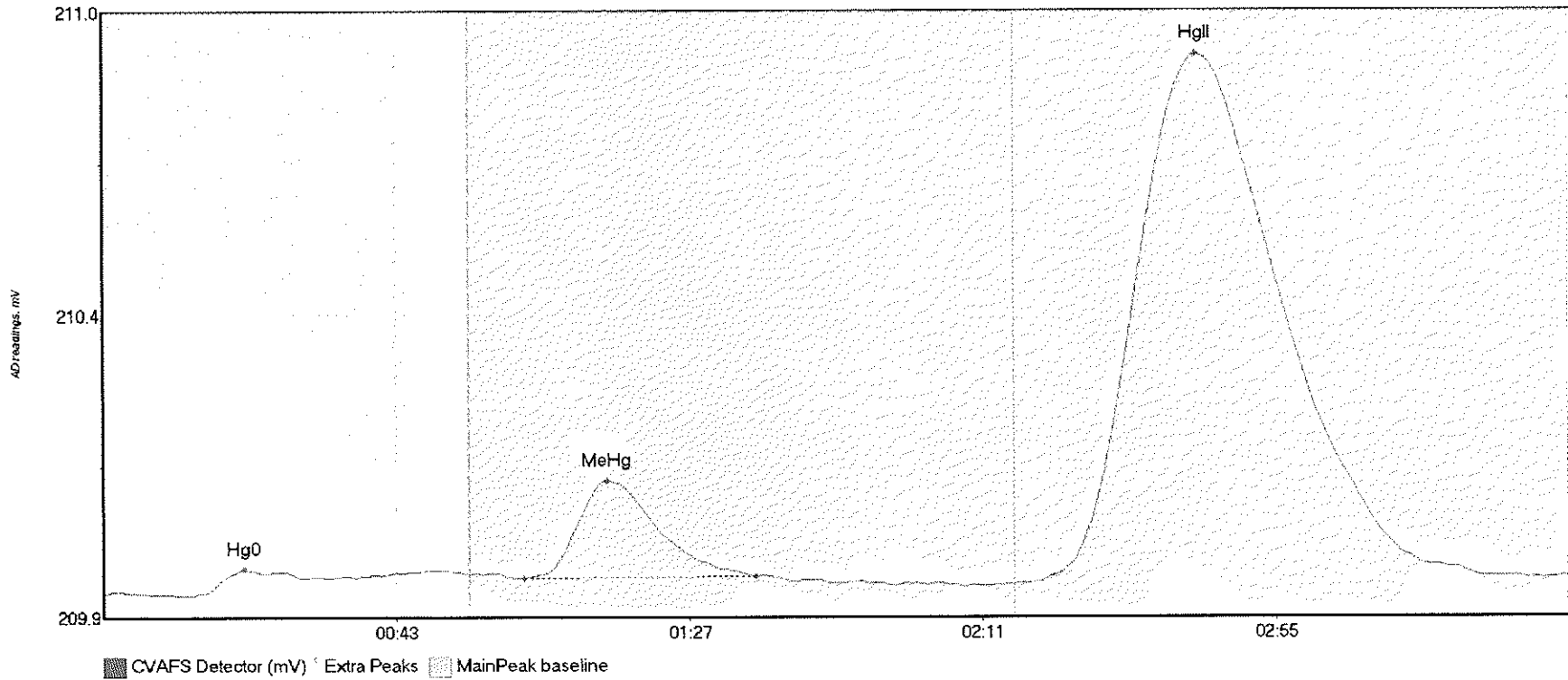
#87: 1708151-22RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-22RE1 H	6.256	11.2	38.9	209.92	209.95	21.8	0.061	OK	209.9269	0.00	0.08	
1708151-22RE1 M	30.290	65.3	96.5	209.95	209.96	75.9	0.225	OK	209.9269	0.00	0.08	
1708151-22RE1 H	1631.088	139.1	219.4	209.94	210.01	164.2	6.567	OK	209.9269	0.00	0.08	

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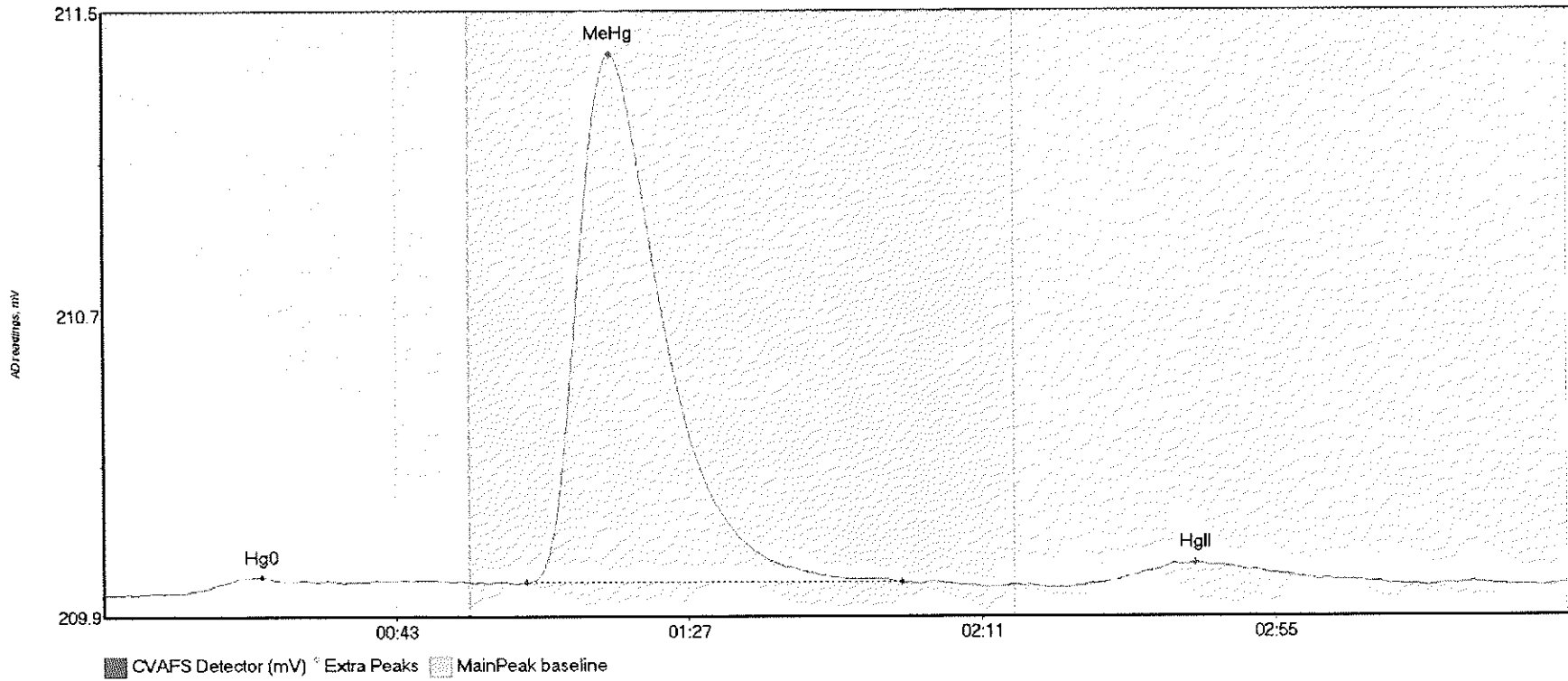
#88: 1708151-23RE1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-23RE1 H	3.312	15.0	34.1	209.93	209.96	21.1	0.044	OK	209.9290	0.00	0.03	
1708151-23RE1 M	24.344	63.1	97.9	209.96	209.96	75.6	0.180	OK	209.9290	0.00	0.03	
1708151-23RE1 H	242.989	140.0	216.2	209.95	209.96	164.0	0.972	OK	209.9290	0.00	0.03	

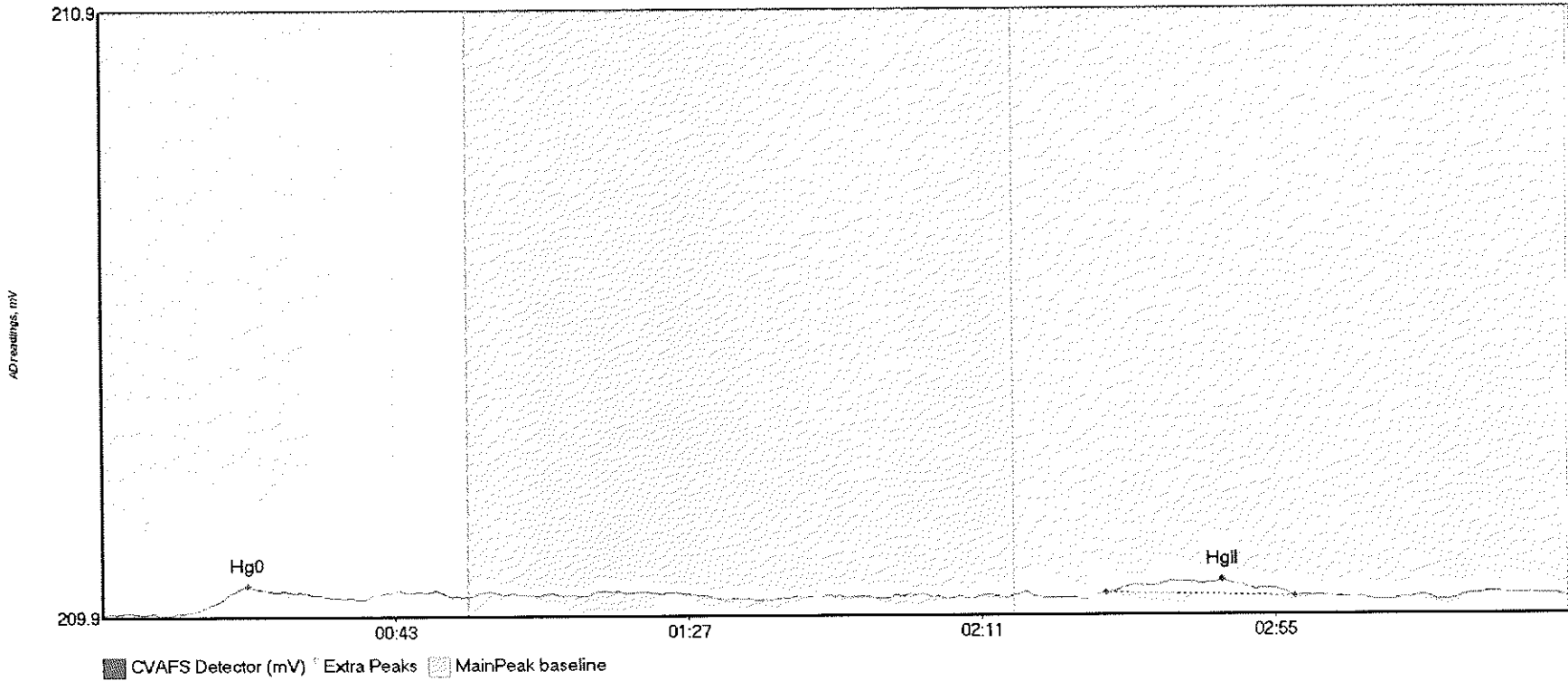


#89: SEQ-CCV7



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV7 Hg0	3.475	11.8	36.1	209.93	209.96	23.9	0.041	OK	209.9263	0.00	0.03	
SEQ-CCV7 MeHg	213.966	63.6	120.0	209.96	209.96	76.3	1.430	OK	209.9263	0.00	0.03	
SEQ-CCV7 HgII	11.789	149.2	193.2	209.96	209.95	164.0	0.054	OK	209.9263	0.00	0.03	

#90: SEQ-CCB7



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB7 Hg0	4.115	14.1	38.6	209.93	209.95	21.9	0.041	OK	209.9227	0.00	0.02	
SEQ-CCB7 HgII	4.213	150.8	178.9	209.95	209.95	168.1	0.021	OK	209.9227	0.00	0.02	017



Frontier Global Sciences

### MHg27001-170831-1

#### Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: August 31, 2017

Instrument #: Hg2700-1

LIMS Sequence #: 7101002

Analyst: DM2

Units ng/L

#### Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	23.07 units	461.37	23.07 units	461.37	86.8 %Rec
SEQ-CAL2	1	0.20 ng/L	104.65 units	523.25	104.65 units	523.25	98.4 %Rec
SEQ-CAL3	1	1.00 ng/L	568.66 units	568.66	568.66 units	568.66	106.9 %Rec
SEQ-CAL4	1	2.00 ng/L	1098.80 units	549.40	1098.80 units	549.40	103.3 %Rec
SEQ-CAL5	1	4.00 ng/L	2226.06 units	556.52	2226.06 units	556.52	104.6 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

**Corr. Mean RF**    **Corr. St Dev RF**    **Corr. RSD CF**    **Uncorr. Mean RF**  
 531.84            +/- 42.76            8.0% RSD            531.84

#### Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.00 units		0.00 ng/L	#VALUE!

#### Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.632 ng/L	±1.094
BLK	2	0	0.000 ng/L	
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

QUALITY ASSURANCE  
PEER-REVIEWED

INITIALS:   a  9/4/17

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber												
Hg2700-1	DM2	CAL	SEQ-IBL1	1	8/31/17 10:53	25559-1.RAW	10:53:00	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL1	1	8/31/17 11:03	25560-1.RAW	11:03:31	23.07			23.1	0.043	0.043	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL2	1	8/31/17 11:14	25561-1.RAW	11:14:02	104.65			104.7	0.197	0.197	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL3	1	8/31/17 11:24	25562-1.RAW	11:24:32	568.66			568.7	1.069	1.069	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL4	1	8/31/17 11:35	25563-1.RAW	11:35:03	1098.80			1098.8	2.066	2.066	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL5	1	8/31/17 11:45	25564-1.RAW	11:45:34	2226.06			2226.1	4.186	4.186	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICV1	1	8/31/17 11:56	25565-1.RAW	11:56:05	266.09			266.1	0.500	0.500	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICB1	1	8/31/17 12:06	25566-1.RAW	12:06:35	3.45			3.4	0.006	0.006	ng/L	
Hg2700-1	DM2	BLK	F708549-BLK4	500	8/31/17 12:17	25567-1.RAW	12:17:06	2.02	1		2.0	0.004	1.895	ng/L	
Hg2700-1	DM2	BLK	F708549-BLK5	500	8/31/17 12:27	25568-1.RAW	12:27:37	0.00	1		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708549-BLK6	500	8/31/17 12:38	25569-1.RAW	12:38:07	0.00	1		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	F708549-BS2	1000	8/31/17 12:48	25570-1.RAW	12:48:38	856.20	1		856.2	1.609	1609.244	ng/L	
Hg2700-1	DM2	SAM	F708549-BS2	1000	8/31/17 12:59	25571-1.RAW	12:59:09	858.19	1		858.2	1.613	1613.001	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV1	1	8/31/17 16:02	25572-1.RAW	16:02:23	249.52			249.5	0.469	0.469	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB1	1	8/31/17 16:12	25573-1.RAW	16:12:53	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	F708549-DUP2	500	8/31/17 16:23	25574-1.RAW	16:23:24	69.85	1		69.9	0.130	65.041	ng/L	
Hg2700-1	DM2	SAM	F708549-MS3	500	8/31/17 16:33	25575-1.RAW	16:33:55	551.06	1		551.1	1.035	517.438	ng/L	
Hg2700-1	DM2	SAM	F708549-MSD3	500	8/31/17 16:44	25576-1.RAW	16:44:26	547.10	1		547.1	1.027	513.717	ng/L	
Hg2700-1	DM2	SAM	F708549-MS4	500	8/31/17 16:54	25577-1.RAW	16:54:56	558.73	1		558.7	1.049	524.651	ng/L	
Hg2700-1	DM2	SAM	F708549-MSD4	500	8/31/17 17:05	25578-1.RAW	17:05:27	622.17	1		622.2	1.169	584.293	ng/L	
Hg2700-1	DM2	SAM	1708151-04RE2	500	8/31/17 17:15	25579-1.RAW	17:15:58	76.66	1		76.7	0.143	71.443	ng/L	
Hg2700-1	DM2	SAM	1708151-05RE2	500	8/31/17 17:26	25580-1.RAW	17:26:28	71.22	1		71.2	0.133	66.323	ng/L	
Hg2700-1	DM2	SAM	1708151-06RE2	500	8/31/17 17:36	25581-1.RAW	17:36:59	67.10	1		67.1	0.125	62.454	ng/L	
Hg2700-1	DM2	SAM	1708151-07RE2	500	8/31/17 17:47	25582-1.RAW	17:47:30	17.05	1		17.1	0.031	15.398	ng/L	
Hg2700-1	DM2	SAM	1708151-08RE2	500	8/31/17 17:58	25583-1.RAW	17:58:01	10.17	1		10.2	0.018	8.927	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV2	1	8/31/17 18:08	25584-1.RAW	18:08:31	227.88			227.9	0.428	0.428	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB2	1	8/31/17 18:19	25585-1.RAW	18:19:02	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708151-09RE2	500	8/31/17 18:29	25586-1.RAW	18:29:33	107.76	1		107.8	0.201	100.674	ng/L	
Hg2700-1	DM2	SAM	1708151-10RE2	500	8/31/17 18:40	25587-1.RAW	18:40:04	47.07	1		47.1	0.087	43.622	ng/L	
Hg2700-1	DM2	SAM	1708151-11RE2	500	8/31/17 18:50	25588-1.RAW	18:50:34	58.97	1		59.0	0.110	54.806	ng/L	
Hg2700-1	DM2	SAM	1708151-12RE2	500	8/31/17 19:01	25589-1.RAW	19:01:05	58.24	1		58.2	0.108	54.125	ng/L	
Hg2700-1	DM2	SAM	1708151-13RE2	500	8/31/17 19:11	25590-1.RAW	19:11:35	89.64	1		89.6	0.167	83.640	ng/L	
Hg2700-1	DM2	SAM	1708151-14RE2	500	8/31/17 19:22	25591-1.RAW	19:22:06	123.74	1		123.7	0.231	115.698	ng/L	
Hg2700-1	DM2	SAM	1708151-15RE2	500	8/31/17 19:32	25592-1.RAW	19:32:37	3.43	1		3.4	0.005	2.589	ng/L	
Hg2700-1	DM2	SAM	1708151-16RE2	500	8/31/17 19:43	25593-1.RAW	19:43:08	9.65	1		9.6	0.017	8.439	ng/L	
Hg2700-1	DM2	SAM	1708151-17RE2	500	8/31/17 19:53	25594-1.RAW	19:53:38	6.24	1		6.2	0.010	5.234	ng/L	
Hg2700-1	DM2	SAM	1708151-18RE2	1	8/31/17 20:04	25595-1.RAW	20:04:09	6.01	1		6.0	-0.621	-0.621	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV3	1	8/31/17 20:14	25596-1.RAW	20:14:40	69.20			69.2	0.130	0.130	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB3	500	8/31/17 20:25	25597-1.RAW	20:25:10	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708151-19RE2	500	8/31/17 20:35	25598-1.RAW	20:35:41	9.53	1		9.5	0.017	8.332	ng/L	
Hg2700-1	DM2	SAM	1708151-20RE2	500	8/31/17 20:46	25599-1.RAW	20:46:12	61.05	1		61.1	0.114	56.768	ng/L	
Hg2700-1	DM2	SAM	1708151-21RE2	500	8/31/17 20:56	25600-1.RAW	20:56:43	43.70	1		43.7	0.081	40.452	ng/L	
Hg2700-1	DM2	SAM	1708151-22RE2	500	8/31/17 21:07	25601-1.RAW	21:07:13	29.30	1		29.3	0.054	26.912	ng/L	
Hg2700-1	DM2	SAM	1708151-23RE2	500	8/31/17 21:17	25602-1.RAW	21:17:44	23.05	1		23.0	0.042	21.037	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV4	1	8/31/17 21:28	25603-1.RAW	21:28:15	236.72			236.7	0.445	0.445	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB4	1	8/31/17 21:38	25604-1.RAW	21:38:45	0.00			0.0	0.000	0.000	ng/L	

## ANALYSIS SEQUENCE

7I01002

Instrument: Hg2700-1 ✓

Calibration ID: UNASSIGNED

Analyzed: 8/1/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7I01002-IBL1 ✓	QC	1			
7I01002-CAL1 ✓	QC	2	1704180 ✓		
7I01002-CAL2 ✓	QC	3	1704181 ✓		
7I01002-CAL3 ✓	QC	4	1704182 ✓		
7I01002-CAL4 ✓	QC	5	1704183 ✓		
7I01002-CAL5 ✓	QC	6	1704184 ✓		
7I01002-ICV1 ✓	QC	7	1705084 ✓		
7I01002-ICB1 ✓	QC	8			
F708549-BLK4 ✓	QC	9			
F708549-BLK5 ✓	QC	10			
F708549-BLK6 ✓	QC	11			
F708549-BS2 ✓	QC	12			
F708549-BSD2 ✓	QC	13			
7I01002-CCV1 ✓	QC	14	1705084 ✓		
7I01002-CCB1 ✓	QC	15			
F708549-DUP2 ✓	QC	16			
F708549-MS3 ✓	QC	17			
F708549-MSD3 ✓	QC	18			
F708549-MS4 ✓	QC	19			
F708549-MSD4 ✓	QC	20			
1708151-04RE2 ✓	MHg-CVAFS-S-KOH	21			Added 9/1/2017 by DM2
1708151-05RE2 ✓	MHg-CVAFS-S-KOH	22			Added 9/1/2017 by DM2
1708151-06RE2 ✓	MHg-CVAFS-S-KOH	23			Added 9/1/2017 by DM2
1708151-07RE2 ✓	MHg-CVAFS-S-KOH	24			Added 9/1/2017 by DM2
1708151-08RE2 ✓	MHg-CVAFS-S-KOH	25			Added 9/1/2017 by DM2
7I01002-CCV2 ✓	QC	26	1705084 ✓		
7I01002-CCB2 ✓	QC	27			
1708151-09RE2 ✓	MHg-CVAFS-S-KOH	28			Added 9/1/2017 by DM2
1708151-10RE2 ✓	MHg-CVAFS-S-KOH	29			Added 9/1/2017 by DM2
1708151-11RE2 ✓	MHg-CVAFS-S-KOH	30			Added 9/1/2017 by DM2
1708151-12RE2 ✓	MHg-CVAFS-S-KOH	31			Added 9/1/2017 by DM2
1708151-13RE2 ✓	MHg-CVAFS-S-KOH	32			Added 9/1/2017 by DM2
1708151-14RE2 ✓	MHg-CVAFS-S-KOH	33			Added 9/1/2017 by DM2
1708151-15RE2 ✓	MHg-CVAFS-S-KOH	34			Added 9/1/2017 by DM2
1708151-16RE2 ✓	MHg-CVAFS-S-KOH	35			Added 9/1/2017 by DM2

Due Date: 9/5/2017

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Page 1 of 2

# ANALYSIS SEQUENCE

7101002

**Instrument: Hg2700-1**

**Calibration ID: UNASSIGNED**

**Analyzed: 8/1/2017**

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1708151-17RE2 ✓	MHg-CVAFS-S-KOH	36			Added 9/1/2017 by DM2
1708151-18RE2 ✓	MHg-CVAFS-S-KOH	37			Added 9/1/2017 by DM2
7101002-CCV3 ✓	QC	38	1705084 ✓		
7101002-CCB3 ✓	QC	39			
1708151-19RE2 ✓	MHg-CVAFS-S-KOH	40			Added 9/1/2017 by DM2
1708151-20RE2 ✓	MHg-CVAFS-S-KOH	41			Added 9/1/2017 by DM2
1708151-21RE2 ✓	MHg-CVAFS-S-KOH	42			Added 9/1/2017 by DM2
1708151-22RE2 ✓	MHg-CVAFS-S-KOH	43			Added 9/1/2017 by DM2
1708151-23RE2 ✓	MHg-CVAFS-S-KOH	44			Added 9/1/2017 by DM2
7101002-CCV4 ✓	QC	45	1705084 ✓		
7101002-CCB4 ✓	QC	46			

Don Moseem      8/31/17  
 Samples Loaded By      Date

Don Moseem      9/1/17  
 Data Processed By      Date

**PREPARATION BENCH SHEET**

F708549

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/25/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708549-BLK1	Blank	0.25	20					
F708549-BLK2	Blank	0.25	20					
F708549-BLK3	Blank	0.25	20					
F708549-BLK4	Blank	0.25	20					
F708549-BLK5	Blank	0.25	20					
F708549-BLK6	Blank	0.25	20					
F708549-BS1	LCS	0.1332	20	1703305	133.2			
F708549-BS2	LCS	0.1332	20	1703305	133.2			
F708549-BSD1	LCS Dup	0.1279	20	1703305	127.9			
F708549-BSD2	LCS Dup	0.1279	20	1703305	127.9			
F708549-DUP1	Duplicate [1708151-04RE1]	0.2657	20					
F708549-DUP2	Duplicate [1708151-04RE2]	0.2657	20					
F708549-MS1	Matrix Spike [1708151-04RE1]	0.2647	20	1605978	100			
F708549-MS2	Matrix Spike [1708151-22RE1]	0.2611	20	1605978	100			
F708549-MS3	Matrix Spike [1708151-04RE2]	0.2647	20	1605978	100			
F708549-MS4	Matrix Spike [1708151-22RE2]	0.2611	20	1605978	100			
F708549-MSD1	Matrix Spike Dup [1708151-04RE1]	0.2993	20	1605978	100			
F708549-MSD2	Matrix Spike Dup [1708151-22RE1]	0.2668	20	1605978	100			
F708549-MSD3	Matrix Spike Dup [1708151-04RE2]	0.2993	20	1605978	100			
F708549-MSD4	Matrix Spike Dup [1708151-22RE2]	0.2668	20	1605978	100			

PREPARATION BENCH SHEET

F708549

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1605978	MHg New Primary 100 ng/mL spike	15-Oct-17 00:00	1606119	Methanol, HPLC Grade	17-Oct-19 00:00
1703305	DORM-4	29-May-20 00:00	1704399	Ethylating Agent (For Methyl Mercury Analysis)	16-Jan-18 00:00
		29-May-20 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
			1704707	Acetate Buffer	29-Jan-18 00:00
			1705204	25% KOH/Methanol	03-Feb-18 00:00



**PREPARATION BENCH SHEET**

F708549

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/25/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-04RE1	W-101-INTA_080117_SED_01-03_R1	0.2732	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-04RE2	W-101-INTA_080117_SED_01-03_R1	0.2732	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-05RE1	W-101-INTA_080117_SED_01-03_R2	0.2924	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-05RE2	W-101-INTA_080117_SED_01-03_R2	0.2924	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-06RE1	W-101-INTA_080117_SED_01-03_R3	0.2824	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-06RE2	W-101-INTA_080117_SED_01-03_R3	0.2824	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-07RE1	W-104-B_080117_SED_00-01	0.2991	20	-	-	-	Re-extract added 8/25/2017 by CF	
1708151-07RE2	W-104-B_080117_SED_00-01	0.2991	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-08RE1	W-104-B_080117_SED_01-03	0.2936	20	-	-	-	Original jar broken, transferred sample	
1708151-08RE2	W-104-B_080117_SED_01-03	0.2936	20	-	-	-	Original jar broken, transferred sample	Added 9/1/2017 by DM2
1708151-09RE1	W-104-INTB_080117_SED_00-01	0.2967	20	-	-	-	Original jar broken, transferred sample	
1708151-09RE2	W-104-INTB_080117_SED_00-01	0.2967	20	-	-	-	Original jar broken, transferred sample	Added 9/1/2017 by DM2
1708151-10RE1	W-104-INTB_080117_SED_01-03	0.2696	20	-	-	-	Original jar broken, transferred sample	
1708151-10RE2	W-104-INTB_080117_SED_01-03	0.2696	20	-	-	-	Original jar broken, transferred sample	Added 9/1/2017 by DM2
1708151-11RE1	W-106-A_080117_SED_00-01	0.2685	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-11RE2	W-106-A_080117_SED_00-01	0.2685	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-12RE1	W-106-A_080117_SED_01-03	0.2701	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-12RE2	W-106-A_080117_SED_01-03	0.2701	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-13RE1	W-107-A_080117_SED_00-01	0.2613	20	-	-	-	Re-extract added 8/25/2017 by DM2	

**PREPARATION BENCH SHEET**

F708549

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/25/2017**

1708151-13RE2	W-107-A_080117_SED_00-01	0.2613	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-14RE1	W-107-A_080117_SED_01-03	0.2775	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-14RE2	W-107-A_080117_SED_01-03	0.2775	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-15RE1	W-109-A_080117_SED_00-01	0.2676	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-15RE2	W-109-A_080117_SED_00-01	0.2676	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-16RE1	W-109-A_080117_SED_01-03	0.2819	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-16RE2	W-109-A_080117_SED_01-03	0.2819	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-17RE1	W-110-A_080117_SED_00-01_R1	0.2863	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-17RE2	W-110-A_080117_SED_00-01_R1	0.2863	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-18RE1	W-110-A_080117_SED_00-01_R2	0.2902	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-18RE2	W-110-A_080117_SED_00-01_R2	0.2902	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-19RE1	W-110-A_080117_SED_00-01_R3	0.2897	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-19RE2	W-110-A_080117_SED_00-01_R3	0.2897	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-20RE1	W-110-A_080117_SED_01-03	0.2506	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-20RE2	W-110-A_080117_SED_01-03	0.2506	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-21RE1	W-MM-09_080117_SED_00-01	0.2921	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-21RE2	W-MM-09_080117_SED_00-01	0.2921	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-22RE1	W-MM-09_080117_SED_01-03	0.2731	20	QC	-	-	MS/MSD Re-extract added 8/25/2017 by DM2	
1708151-22RE2	W-MM-09_080117_SED_01-03	0.2731	20	QC	-	-	MS/MSD Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-23RE1	W-MM-10_080117_SED_00-01	0.2688	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-23RE2	W-MM-10_080117_SED_00-01	0.2688	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2

Due Date: 9/5/2017

**PREPARATION BENCH SHEET**

F708549

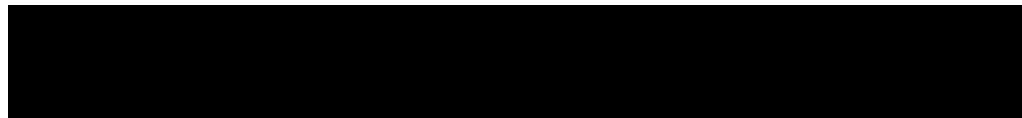
**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/25/2017**

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PREPARATION BENCH SHEET

2700-1  
8/31/17 DM

F708549

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708549-BLK1	Blank	0.25	20					
F708549-BLK2	Blank	0.25	20					
F708549-BLK3	Blank	0.25	20					
F708549-BS1	LCS	0.1332	20	1703305	133.2			
F708549-BSD1	LCS Dup	0.1279	20	1703305	127.9			
F708549-DUP1	Duplicate [1708151-04RE1]	0.2657	20					
F708549-MS1	Matrix Spike [1708151-04RE1]	0.2647	20	1605978	100			
F708549-MS2	Matrix Spike [1708151-22RE1]	0.2611	20	1605978	100			
F708549-MSD1	Matrix Spike Dup [1708151-04RE1]	0.2993	20	1605978	100			
F708549-MSD2	Matrix Spike Dup [1708151-22RE1]	0.2668	20	1605978	100			

Standard ID(s):  
1605978  
1703305

Description:  
MHg New Primary 100 ng/mL spike  
DORM-4

Expiration:  
15-Oct-17 00:00  
29-May-20 00:00  
29-May-20 00:00

Reagent ID(s):  
1606119  
1704399  
1704424  
1704707  
1705204

Description:  
Methanol, HPLC Grade  
Ethylating Agent (For Methyl Mercury Analysis)  
Boiling Chips for AFS prep  
Acetate Buffer  
25% KOH/Methanol

Expiration:  
17-Oct-19 00:00  
16-Jan-18 00:00  
21-Jan-18 00:00  
29-Jan-18 00:00  
03-Feb-18 00:00

BLK 4, 5, 6 - 500X

BS1, BSD2 - 1000X

MS3, MSD3 - 500X

MS4, MSD4 - 500X

PREPARATION BENCH SHEET

2700-1  
8/31/17 DM

F708549

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-04RE1	W-101-INTA_080117_SED_01-03_R1	0.2732	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-05RE1	W-101-INTA_080117_SED_01-03_R2	0.2924	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-06RE1	W-101-INTA_080117_SED_01-03_R3	0.2824	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-07RE1	W-104-B_080117_SED_00-01	0.2991	20	-	-	-	Re-extract added 8/25/2017 by CF	500x
1708151-08RE1	W-104-B_080117_SED_01-03	0.2936	20	-	-	-	Original jar broken, transferred sample	500x
1708151-09RE1	W-104-INTB_080117_SED_00-01	0.2967	20	-	-	-	Original jar broken, transferred sample	500x
1708151-10RE1	W-104-INTB_080117_SED_01-03	0.2696	20	-	-	-	Original jar broken, transferred sample	500x
1708151-11RE1	W-106-A_080117_SED_00-01	0.2685	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-12RE1	W-106-A_080117_SED_01-03	0.2701	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-13RE1	W-107-A_080117_SED_00-01	0.2613	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-14RE1	W-107-A_080117_SED_01-03	0.2775	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-15RE1	W-109-A_080117_SED_00-01	0.2676	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-16RE1	W-109-A_080117_SED_01-03	0.2819	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-17RE1	W-110-A_080117_SED_00-01_R1	0.2863	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-18RE1	W-110-A_080117_SED_00-01_R2	0.2902	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-19RE1	W-110-A_080117_SED_00-01_R3	0.2897	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-20RE1	W-110-A_080117_SED_01-03	0.2506	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-21RE1	W-MM-09_080117_SED_00-01	0.2921	20	-	-	-	Re-extract added 8/25/2017 by DM2	500x
1708151-22RE1	W-MM-09_080117_SED_01-03	0.2731	20	QC	-	-	MS/MSD Re-extract added 8/25/2017 by DM2	500x

Due Date: 9/5/2017

PREPARATION BENCH SHEET

2700-1

F708549

8/31/17 DM

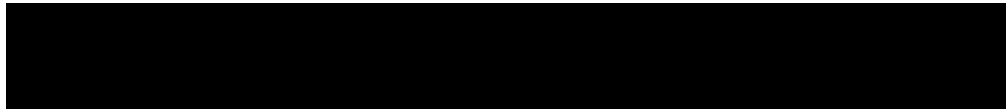
Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

1708151-23REI	W-MM-10_080117_SED_00-01	0.2688	20	-	-	-	Re-extract added 8/25/2017 by DM2	DM2
---------------	--------------------------	--------	----	---	---	---	-----------------------------------	-----



# Failing Data Report - 7101002

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
7101002-CCV3	MHg-CVAFS-S-KOH	0.1	0.100			0.50049	ng/L	26.0	67.00	133.00			PASS-OVER	FAIL-CCV	PR bracket

Don Mottram      9/1/17  
 Analyst Reviewed By      Date

[Signature]      9/4/17  
 Peer Reviewed By      Date

**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b> DON MORAN	<b>Sequence #:</b> 7I01002
<b>Reviewer:</b> <i>R 9/4/17</i>	<b>Dataset ID #:</b> MHG27001-170831-1
<b>Date:</b> 9/1/17	<b>WO #:</b> 1708151
<b>Batch #(s):</b> F708549	<b>Client(s):</b> AMEC FOSTER WHEELER

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input type="checkbox"/> MHg	SOP2797 MHg Distillation	Water
<input checked="" type="checkbox"/> MHg	SOP2986 KOH/MeOH Digest	Tissue
<input type="checkbox"/> MHg	SOP5134 MeCl Extraction	Sed/Soil
<input type="checkbox"/> DMHg	SOP2816 (None Accredited method)	ALL

**Analyst Initials:**

*DM*

**Reviewer Initials:**

*R 9/4/17*

- |   |  |  |   |
|---|--|--|---|
| 1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| 2. Check for transcription errors from Excel spreadsheet (or Prep Bench sheet)/Raw data     | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (a) Reviewer: 100% of peak heights checked  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (b) Are there peak height errors?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (c) Error on a sample: Do peak heights, responses, & initial results match corrected data?  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> N/A |
| (d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?                        | <input type="checkbox"/> YES             | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> N/A |
| (e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries). | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (f) Check and compare masses (review prep bench sheet)                                      | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (g) Check and compare initial and final volumes   | <input type="checkbox"/> YES             | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (h) Do aliquots and dilutions written on benchsheet match those in Excel?                   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (i) Is the pH>3.0 for all distilled samples?  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> N/A |
| (j) Is the sequence #, analyst, date, and instrument # on the QC page?                      | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (k) Is the analysis status correct? (analyzed/initial review/reviewed)                      | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (l) Original prep bench sheet added to data package?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)       | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| 3. High QA? WO#(s)/Client(s): _____   | <input type="checkbox"/> YES             | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>     |
| 4. Client specific QC? (if Yes, refer to Project Notes/LIMS)                                | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (a) Have the QC requirements been met for all WO#s?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| 5. 20 or fewer samples in batch? _____  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (a) 3 PBs, 1 LCS/LCSD (or BS/BSD), 2 MS/MSD/MD per batch?                                   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (b) 1 CCV and 1 CCB every 10 analytical runs? _____   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| <b>QA/QC Data Checked</b>   |  |  |   |
| 6. The calibration curve included a minimum of 5 Standards                                  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          | <input type="checkbox"/> N/A            |
| Comments: _____   |  |  | <input checked="" type="checkbox"/>     |
| 7. 1st Calibration Standard % Recoveries (65-135%)  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          | <input type="checkbox"/> N/A            |
| Comments: _____   |  |  | <input checked="" type="checkbox"/>     |
| 8. RSD CF (≤ 15%)   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          | <input checked="" type="checkbox"/>     |
| Comments: _____   |  |  | <input checked="" type="checkbox"/>     |



**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b> DON MORAN	<b>Sequence #:</b> 7I01002
<b>Reviewer:</b> 0 R gly/w	<b>Dataset ID #:</b> MHG27001-170831-1
<b>Date:</b> 9/1/2017	<b>WO #:</b> 1708151
<b>Batch #(s):</b> F708549	<b>Client(s):</b> AMEC FOSTER WHEELER

**Analyst Initials:**

DM

**Reviewer Initials:**

R 9/1/17

9. ICV % Recoveries 67-133%	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input type="checkbox"/>
Comments: _____				
10. CCV % Recoveries 67-133%	<input checked="" type="checkbox"/> PASS	<input checked="" type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: <b>SEQ-CCV3 FAILED. LOW RECOVERY</b>				
11. Are the absolute value of the ICB and CCBs < PQL?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: _____				
12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: _____				
13. LCS/LCSD or BS/BSD RPD (< 25%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: _____				
14. Water: Average of Preparation Blanks < 0.045 ng/L and standard deviation of 0.015 ng/L?	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments: _____				
15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments: _____	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done)	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
17. Is the correct 'Source' designated for MD/MS/MSD?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
18. For digested preps: was there a spike witness signature & date on the prep bench sheet?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
19. MD RPD/MT RSD(< 35%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: _____				
20. Is there one set of MS/MSD per every 10 samples?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: _____				
21. MS/MSD RPD(< 35%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: _____				
22. MS (AS) % Recoveries (65-130%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: _____				
23. MSD (ASD) % Recoveries (65-130%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: _____				
24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
25. Are all samples within instrument calibration range (or at maximum aliquot size)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
Comments: _____				
26. For instrumental dilutions, is the dilution factor in excel correct?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Is the sample volume, diluents, and final volume of the dilution noted on benchsheet?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
27. Dissolved < Total metals (if applicable)	<input type="checkbox"/> PASS	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments: _____				
28. Effluent < Influent metals (visually confirm if needed)	<input type="checkbox"/> PASS	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments: _____				

**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b>	DON MORAN	<b>Sequence #:</b>	7101002
<b>Reviewer:</b>	0 <i>R 9/1/17</i>	<b>Dataset ID #:</b>	MHG27001-170831-1
<b>Date:</b>	9/1/2017	<b>WO #:</b>	1708151
<b>Batch #(s):</b>	F708549	<b>Client(s):</b>	AMEC FOSTER WHEELER

**Analyst Initials:**

*DM*

**Reviewer Initials:**

*R 9/1/17*

29. Are re-runs noted with reason?  YES  NO  N/A
- Comments: \_\_\_\_\_
30. For failing QC (CCV, CCB, PB, BS/BSO, CAL):  YES  NO  N/A
- Was a bubbler and trap test run before the analytical run continued?
- Comments: \_\_\_\_\_
31. Do re-run results compare to initial analysis (< 35% RPD)?  YES  NO  N/A
- Comments: \_\_\_\_\_
32. Are qualifiers consistent with the data review flowcharts?  YES  NO  N/A
- Comments: \_\_\_\_\_
33. Have non-reportable samples been imported into LIMS and clicked to non-reportable?  YES  NO  N/A
- Comments: \_\_\_\_\_
34. Have re-extracts been created for non-reportable samples?  YES  NO  N/A
35. Narrations in MMO box in LIMS?
- Comments: \_\_\_\_\_
36. Are there any HIGH QA projects within the data?  YES  NO
- If so, place dataset to the QA office.
37. Does the data set need scanning?  YES  N/A
- Files located at: \\Cuprum\gen\_admin\Quality Assurance\Training Master\DOCs
38. Date of analyst IDOC/CDOC: 6/13/2017 IDOC/CDOC within last 12 months?  YES  NO
39. Date of analyst's SOP reading: 5/23/2016 Current SOP revision?  YES  NO
40. Date of LOD: 4/24/2017 LOD within last 3 months (within 12 months for MDN)?  YES  NO  N/A
41. Date of LOQ: 4/24/2017 LOQ within last 3 months (within 12 months for MDN)?  YES  NO  N/A
42. If MDN samples, date of last MDL study: \_\_\_\_\_
43. MDL study within last 12 months?  YES  NO  N/A
- Data can not be reported without a current IDOC/CDOC, LOD or LOQ.**
- Additional Comments:  YES  NO

MethylMercury  
EPA1630

Operak DM  
Workst Mhq270  
Methoc 2010-01 R:

BlankSub:  
CalibFactor:  
R1:

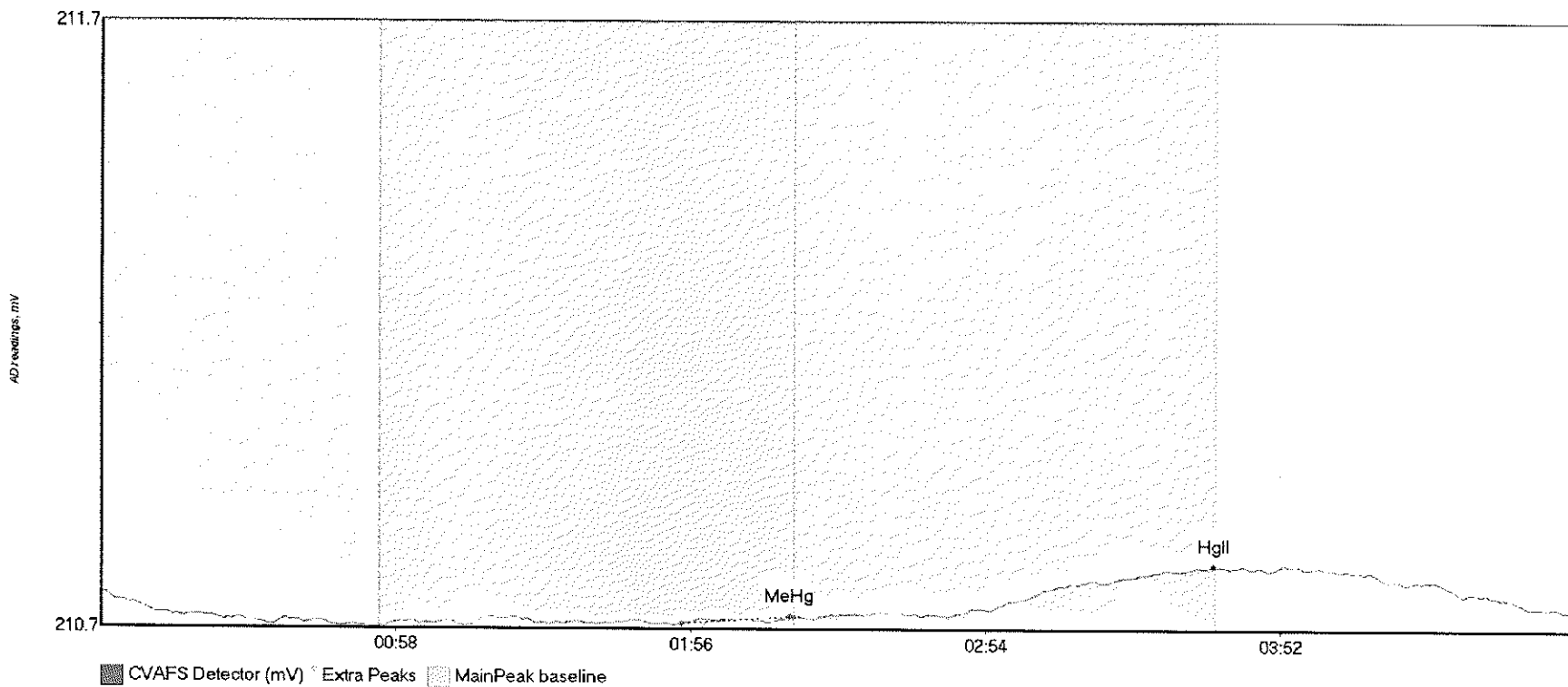
Calib Eqn:  
Status: Calibank error: Zero Poi  
R2:

Run Date: 8/31/2017  
Run Time: 0:00:00

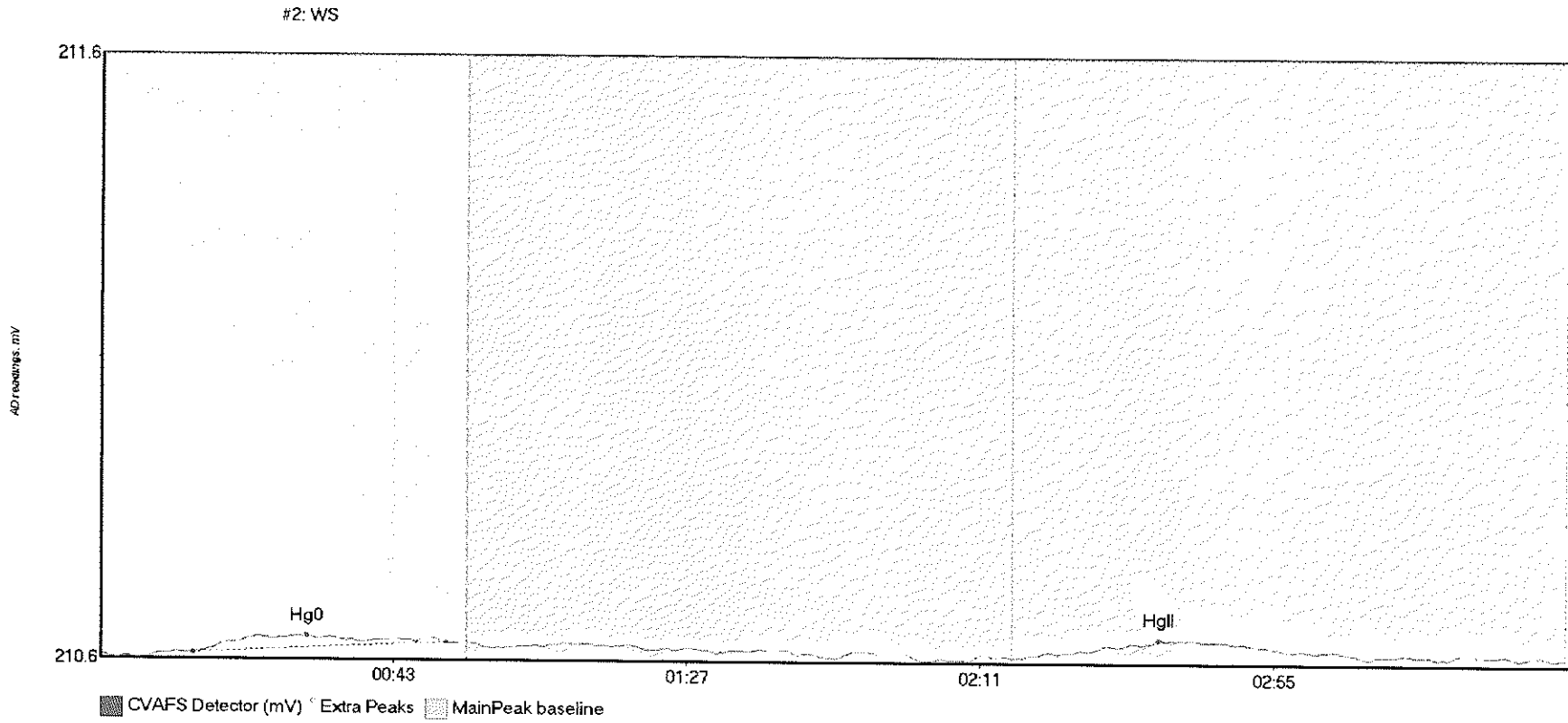
Blank SD:  
Blank RSD%:  
CF RSD%:

SampleID	Locabor	Rinse	Diute	Blank	ConcHq0(α)	ConcMeHq	ConcHq2(α)	ConcPHq(α)	Rec%	QA	RawData	RunEnd	PeakHq0 (Raw)	PeakMeHq (R)	PeakHq2(Raw)	PeakPHq(Raw)	Raw Control (ref)	Flags	RunCount
Clean																			
WS	A1										25557-1.RAW	10:31:59	0.00	0.29	3.69	0.00	cleandry	CT	1
SEQ-IBL1	A2		1								25558-1.RAW	10:42:30	4.70	0.00	7.96	0.00	psample10	OK	1
SEQ-CAL1	A3		1								25559-1.RAW	10:53:00	2.37	0.00	7.97	0.00	psample10	OK	1
SEQ-CAL2	A4		1								25560-1.RAW	11:03:31	6.10	23.07	5.44	0.00	psample10	OK	1
SEQ-CAL3	A5		1								25561-1.RAW	11:14:02	5.30	104.65	3.87	0.00	psample10	OK	1
SEQ-CAL4	A6		1								25562-1.RAW	11:24:32	5.83	568.66	176.15	0.00	psample10	OK	1
SEQ-CAL5	A7		1								25563-1.RAW	11:35:03	8.13	1098.80	45.66	0.00	psample10	CT	1
SEQ-ICV1	A8		1								25564-1.RAW	11:45:34	8.72	2226.06	99.39	0.00	psample10	CT	1
SEQ-ICB1	A9		1								25565-1.RAW	11:56:05	6.11	266.09	9.71	0.00	psample10	OK	1
F708549-BLK4	A10		500								25566-1.RAW	12:06:35	3.39	3.45	5.09	0.00	psample10	OK	1
F708549-BLK5	A11		500								25567-1.RAW	12:17:06	5.57	2.02	6.96	0.00	psample10	CT	1
F708549-BLK6	A12		500								25568-1.RAW	12:27:37	3.99	0.00	14.58	0.00	psample10	OK	1
F708549-BS2	A13		1000								25569-1.RAW	12:38:07	3.20	0.00	13.30	0.00	psample10	OK	1
F708549-BSD2	A14		1000								25570-1.RAW	12:48:38	4.36	856.20	123.13	0.00	psample10	OK	1
SEQ-CCV1	A15		1								25571-1.RAW	12:59:09	4.60	858.19	118.83	0.00	psample10	OK	1
SEQ-CCB1	A16		1								25572-1.RAW	16:02:23	7.09	249.52	5.57	0.00	psample10	CT	1
F708549-DUP2	A17		500								25573-1.RAW	16:12:53	4.02	0.00	4.50	0.00	psample10	OK	1
F708549-MS3	A18		500								25574-1.RAW	16:23:24	11.54	69.85	1918.09	0.00	psample10	CT	1
F708549-MSD3	A19		500								25575-1.RAW	16:33:55	12.07	551.06	1999.84	0.00	psample10	CT	1
F708549-MS4	A20		500								25576-1.RAW	16:44:26	15.08	547.10	2580.06	0.00	psample10	CT	1
F708549-MSD4	A21		500								25577-1.RAW	16:54:56	12.35	558.73	1461.91	0.00	psample10	CT	1
1708151-04RE2	B1		500								25578-1.RAW	17:05:27	12.80	622.17	1477.82	0.00	psample10	OK	1
1708151-05RE2	B2		500								25579-1.RAW	17:15:58	12.53	76.65	1902.40	0.00	psample10	OK	1
1708151-06RE2	B3		500								25580-1.RAW	17:26:28	14.40	71.22	2101.34	0.00	psample10	OK	1
1708151-07RE2	B4		500								25581-1.RAW	17:36:59	12.96	87.10	1887.83	0.00	psample10	CT	1
1708151-07RE2	B4		500								25582-1.RAW	17:47:30	7.83	17.05	299.47	0.00	psample10	CT	1
1708151-08RE2	B5		500								25583-1.RAW	17:58:01	5.59	10.17	940.25	0.00	psample10	OK	1
SEQ-CCV2	B6		1								25584-1.RAW	18:08:31	4.46	227.88	9.27	0.00	psample10	OK	1
SEQ-CCB2	B7		1								25585-1.RAW	18:19:02	6.60	0.00	4.44	0.00	psample10	OK	1
1708151-09RE2	B8		500								25586-1.RAW	18:29:33	9.85	107.76	1317.10	0.00	psample10	OK	1
1708151-10RE2	B9		500								25587-1.RAW	18:40:04	9.21	47.07	1050.72	0.00	psample10	CT	1
1708151-11RE2	B10		500								25588-1.RAW	18:50:34	4.53	58.97	1270.71	0.00	psample10	OK	1
1708151-12RE2	B11		500								25589-1.RAW	19:01:05	10.47	58.24	1638.05	0.00	psample10	CT	1
1708151-13RE2	B12		500								25590-1.RAW	19:11:35	5.62	89.64	849.40	0.00	psample10	CT	1
1708151-14RE2	B13		500								25591-1.RAW	19:22:06	12.92	123.74	3267.01	0.00	psample10	CT	1
1708151-15RE2	B14		500								25592-1.RAW	19:32:37	4.81	3.43	97.98	0.00	psample10	OK	1
1708151-16RE2	B15		500								25593-1.RAW	19:43:08	3.00	9.65	76.81	0.00	psample10	OK	1
1708151-17RE2	B16		500								25594-1.RAW	19:53:38	3.23	6.24	227.27	0.00	psample10	OK	1
1708151-18RE2	B17		500								25595-1.RAW	20:04:09	3.04	6.01	266.00	0.00	psample10	OK	1
SEQ-CCV3	B18		1								25596-1.RAW	20:14:40	3.98	69.20	3.50	0.00	psample10	CT	1
SEQ-CCB3	B19		1								25597-1.RAW	20:25:10	5.28	0.00	8.50	0.00	psample10	OK	1
1708151-19RE2	B20		500								25598-1.RAW	20:35:41	2.80	9.53	334.20	0.00	psample10	OK	1
1708151-20RE2	B21		500								25599-1.RAW	20:46:12	6.78	61.05	648.42	0.00	psample10	OK	1
1708151-21RE2	C1		500								25600-1.RAW	20:56:43	5.11	43.70	349.24	0.00	psample10	OK	1
1708151-22RE2	C2		500								25601-1.RAW	21:07:13	7.03	29.30	1260.79	0.00	psample10	OK	1
1708151-23RE2	C3		500								25602-1.RAW	21:17:44	4.07	23.05	235.01	0.00	psample10	CT	1
SEQ-CCV4	C4		1								25603-1.RAW	21:28:15	5.32	236.72	6.64	0.00	psample10	OK	1
SEQ-CCB4	C5		1								25604-1.RAW	21:38:45	5.17	0.00	5.90	0.00	psample10	OK	1

#1: Clean

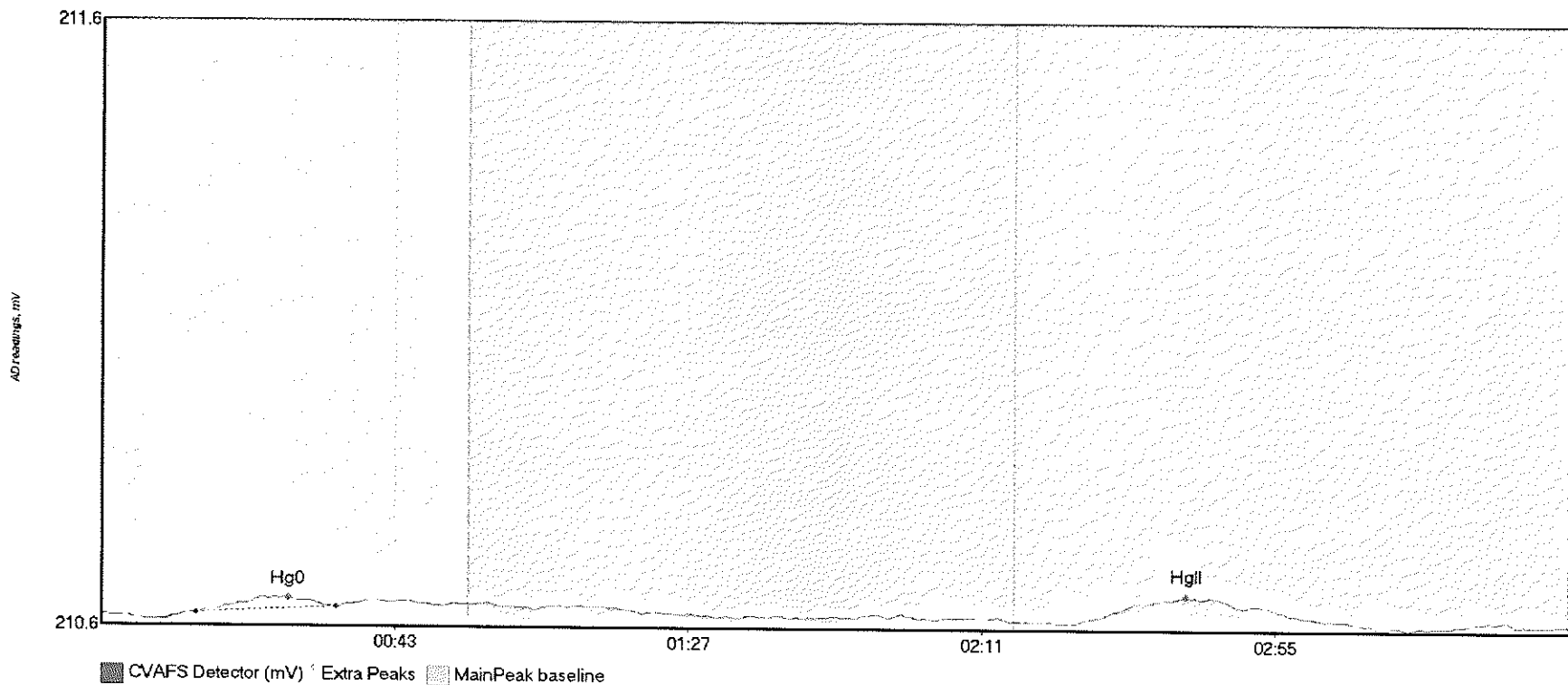


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
Clean MeHg	0.289	114.6	136.7	210.73	210.74	136.0	0.011	OK	210.7813	0.00	-0.03	
Clean HgII	3.690	167.5	219.8	210.74	210.83	219.5	0.083	CT	210.7813	0.00	-0.03	017



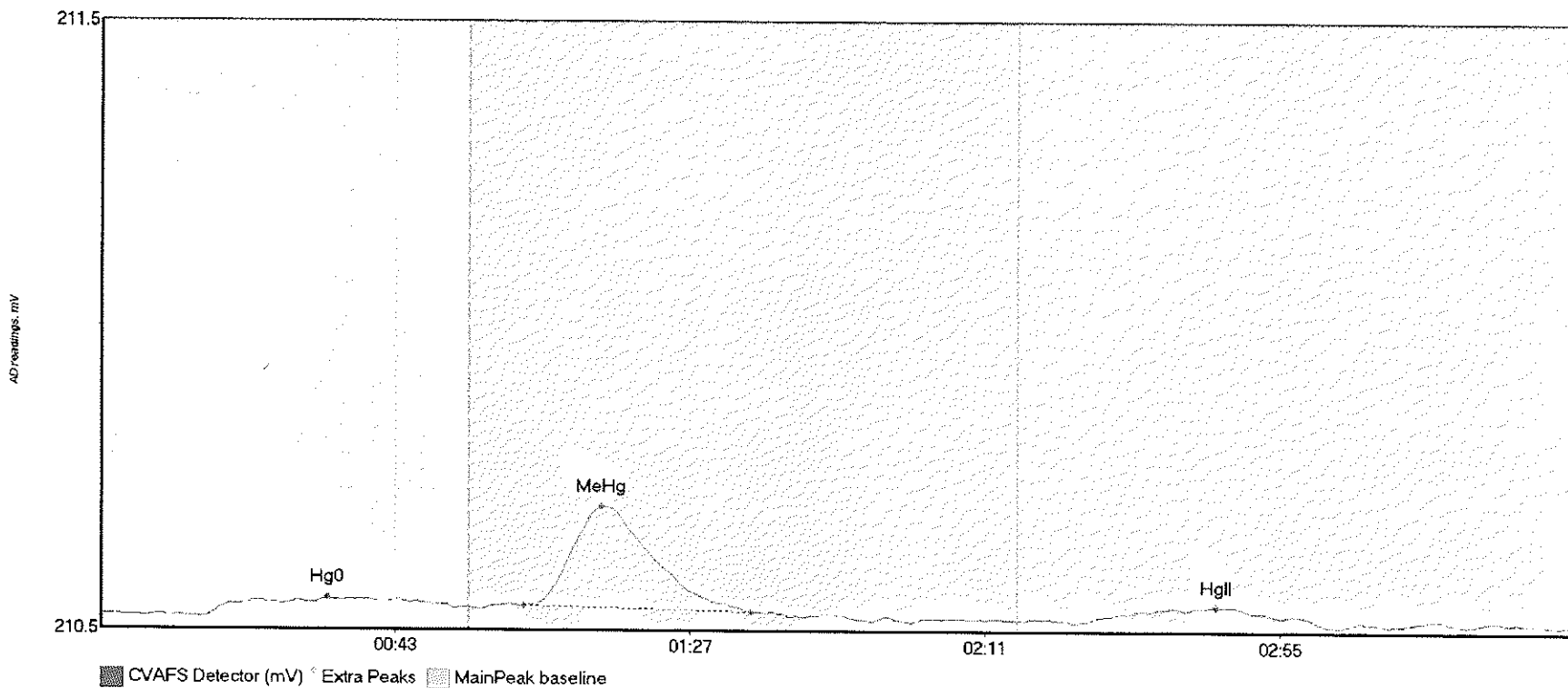
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	4.701	13.8	51.9	210.66	210.68	31.0	0.028	OK	210.6542	0.00	0.00	
WS HgII	7.956	140.3	190.2	210.66	210.66	158.8	0.027	OK	210.6542	0.00	0.00	

#3: SEQ-IBL1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-IBL1 Hg0	2.366	14.2	35.2	210.60	210.61	28.0	0.027	OK	210.5984	0.00	-0.01	
SEQ-IBL1 HgII	7.974	147.5	183.4	210.60	210.60	162.6	0.039	OK	210.5984	0.00	-0.01	017

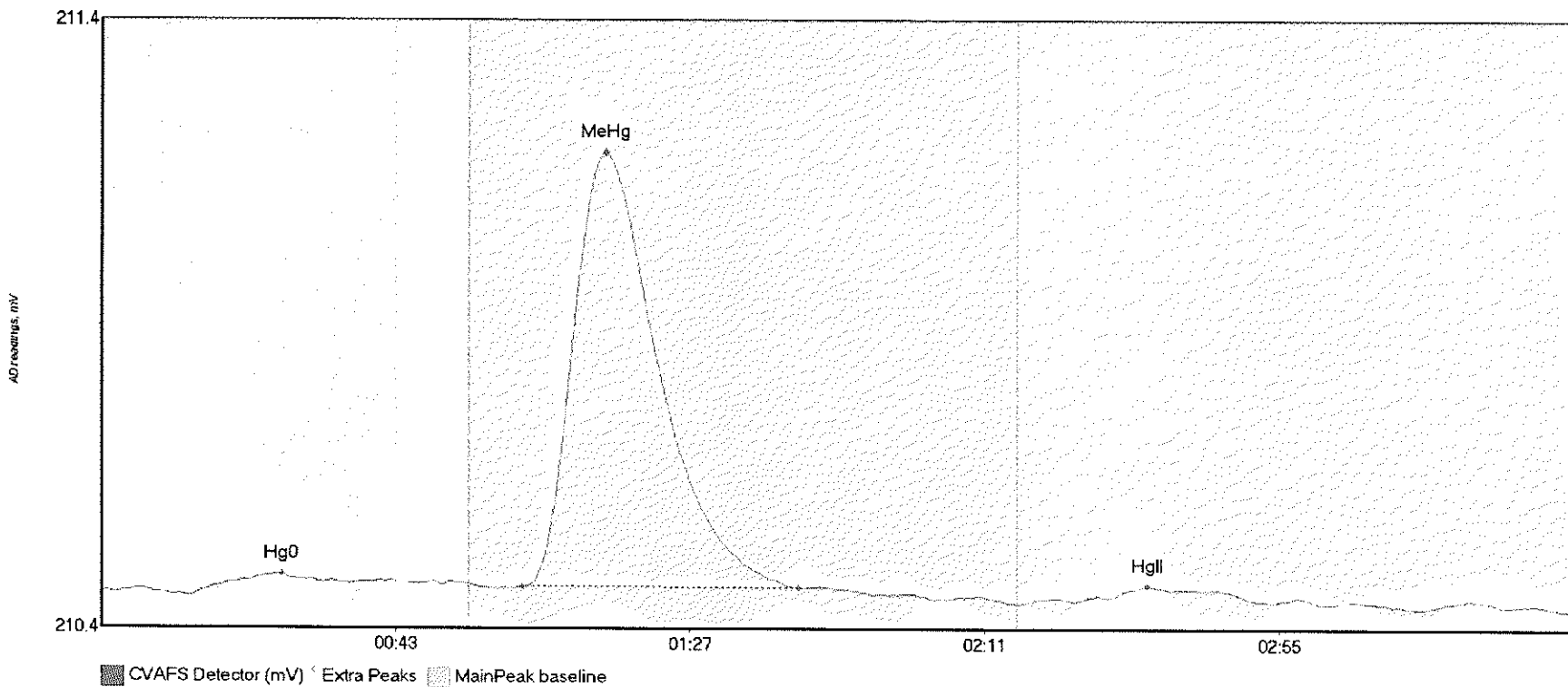
#4: SEQ-CAL1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
SEQ-CAL1 Hg0	6.097	15.4	52.9	210.53	210.54	33.8	0.030	OK	210.5286	0.00	-0.01	
SEQ-CAL1 MeHg	23.069	63.1	97.0	210.54	210.53	74.8	0.164	OK	210.5286	0.00	-0.01	
SEQ-CAL1 HgII	5.445	148.7	183.1	210.53	210.51	166.5	0.020	OK	210.5286	0.00	-0.01	

017

#5: SEQ-CAL2

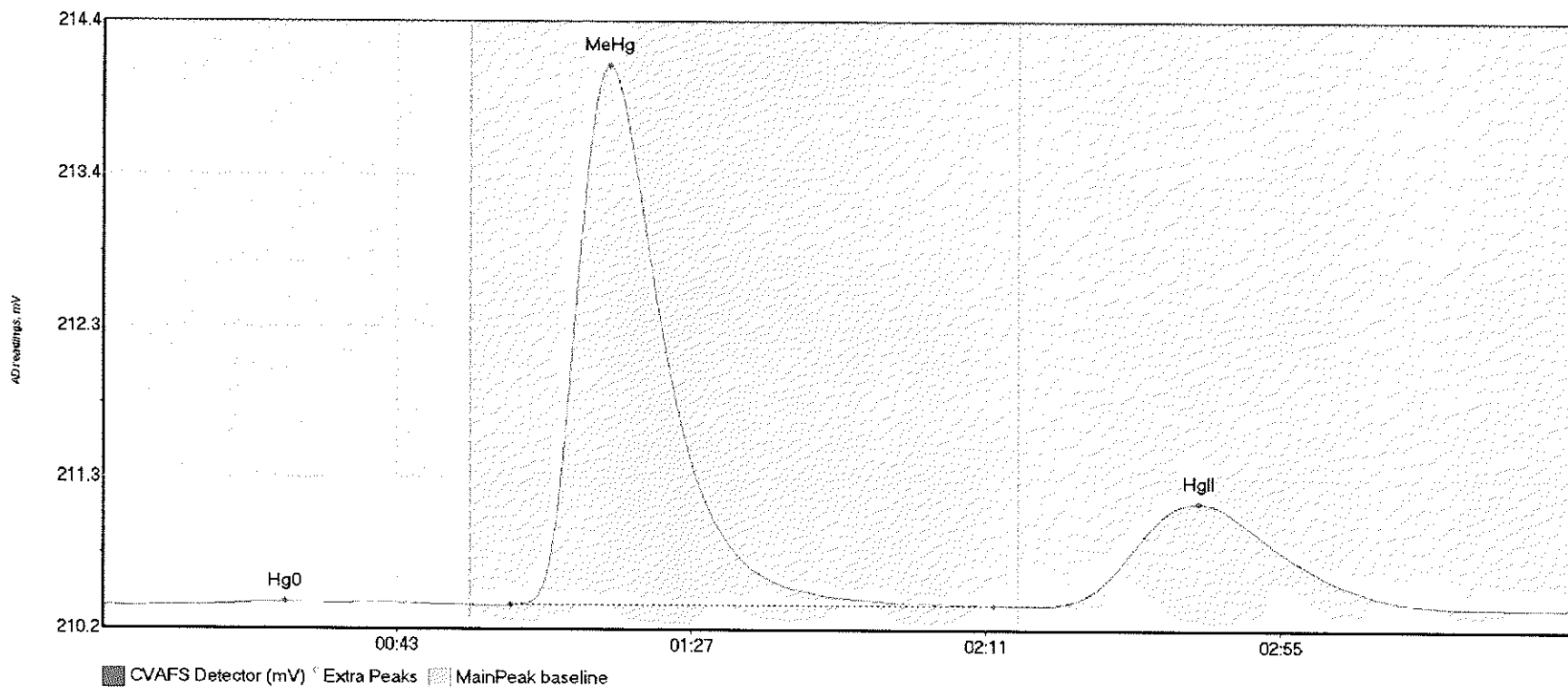


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL2 Hg0	5.296	13.1	51.1	210.45	210.47	27.0	0.036	OK	210.4546	0.00	-0.03	
SEQ-CAL2 MeHg	104.651	63.0	104.1	210.46	210.46	75.5	0.714	OK	210.4546	0.00	-0.03	
SEQ-CAL2 HgII	3.866	145.5	172.8	210.44	210.44	156.3	0.024	OK	210.4546	0.00	-0.03	

017

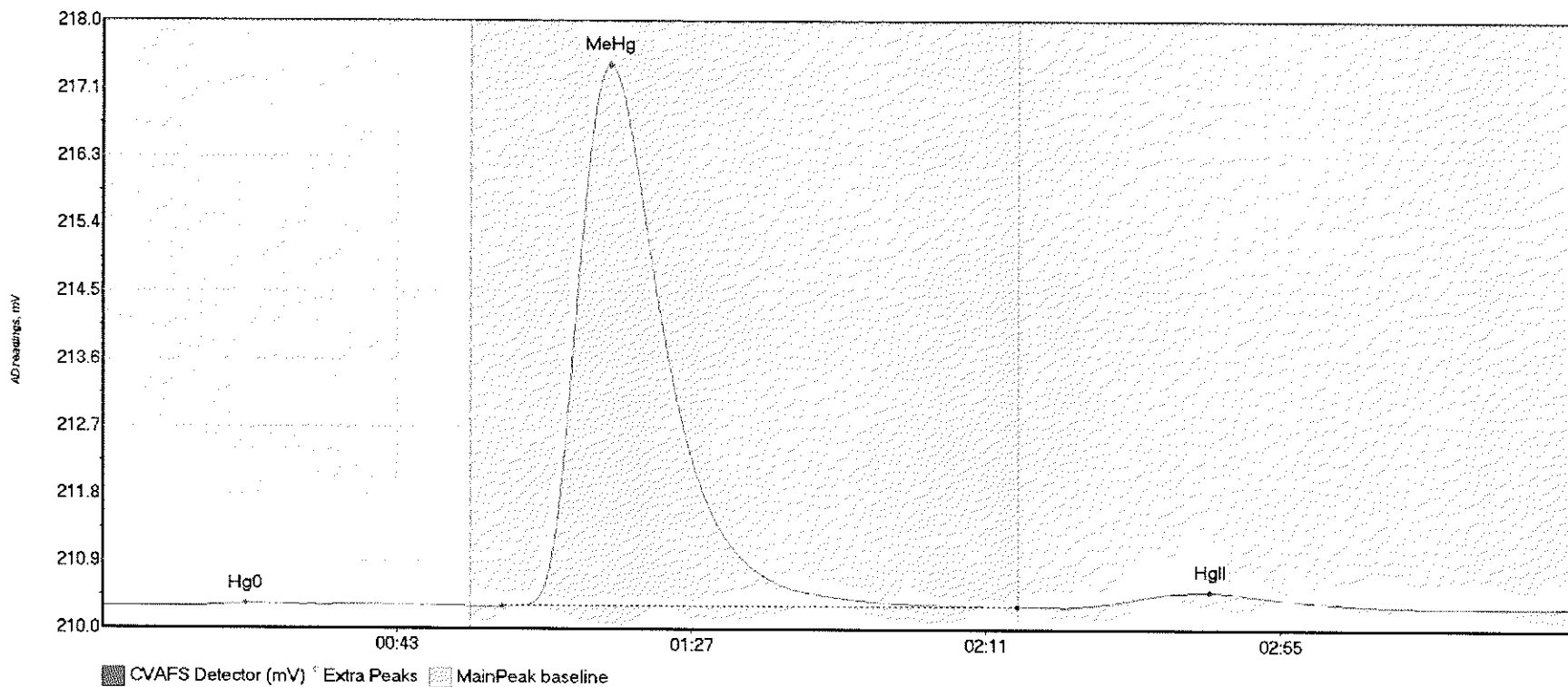


#6: SEQ-CAL3



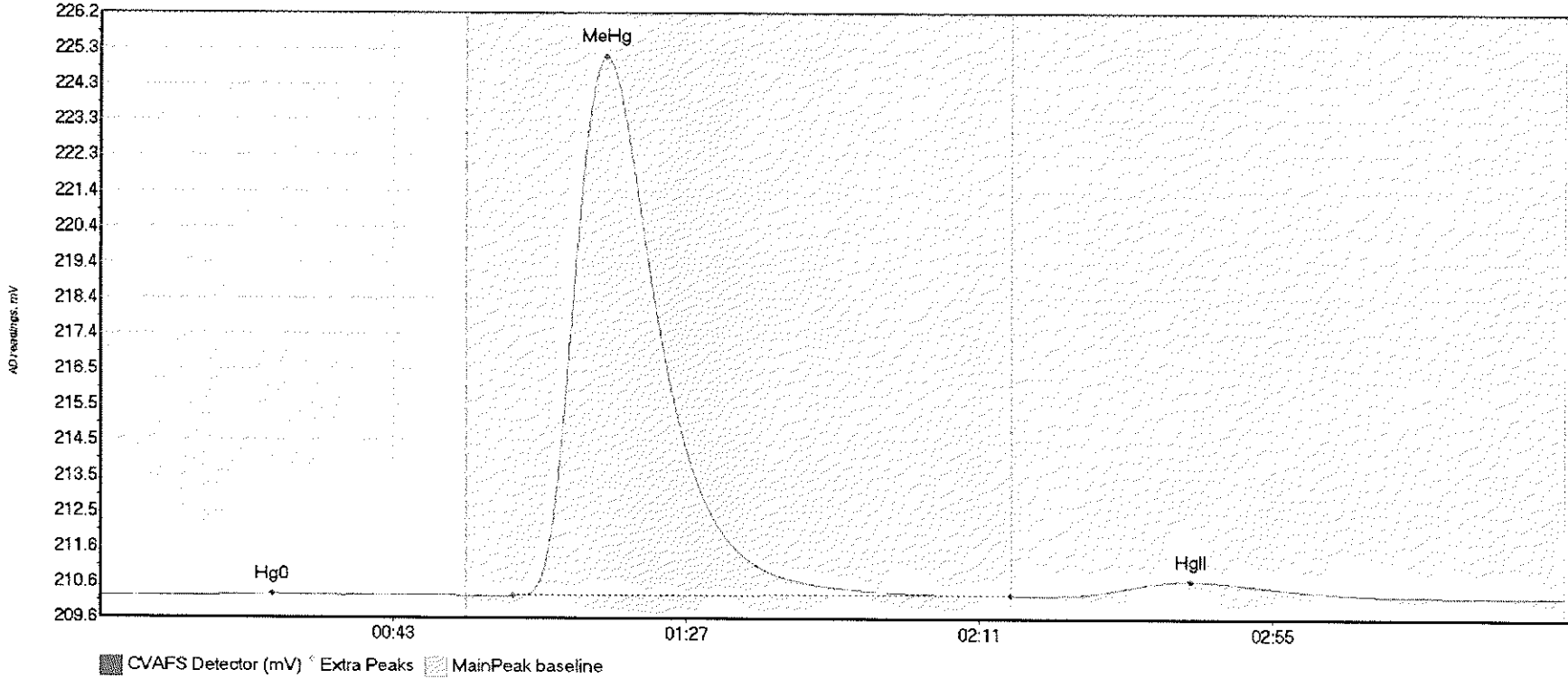
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL3 Hg0	5.831	14.7	54.2	210.37	210.37	27.3	0.027	OK	210.3659	0.00	-0.01	
SEQ-CAL3 MeHg	568.658	61.0	133.2	210.37	210.38	75.8	3.731	OK	210.3659	0.00	-0.01	
SEQ-CAL3 HgII	176.146	141.3	201.5	210.38	210.36	163.8	0.709	OK	210.3659	0.00	-0.01	

#7: SEQ-CAL4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL4 Hg0	8.129	11.6	55.0	210.28	210.29	21.4	0.036	CT	210.2799	0.00	0.00	
SEQ-CAL4 MeHg	1098.798	59.7	136.8	210.29	210.30	75.9	7.177	CT	210.2799	0.00	0.00	
SEQ-CAL4 HgII	45.659	144.0	191.6	210.29	210.30	165.5	0.201	OK	210.2799	0.00	0.00	

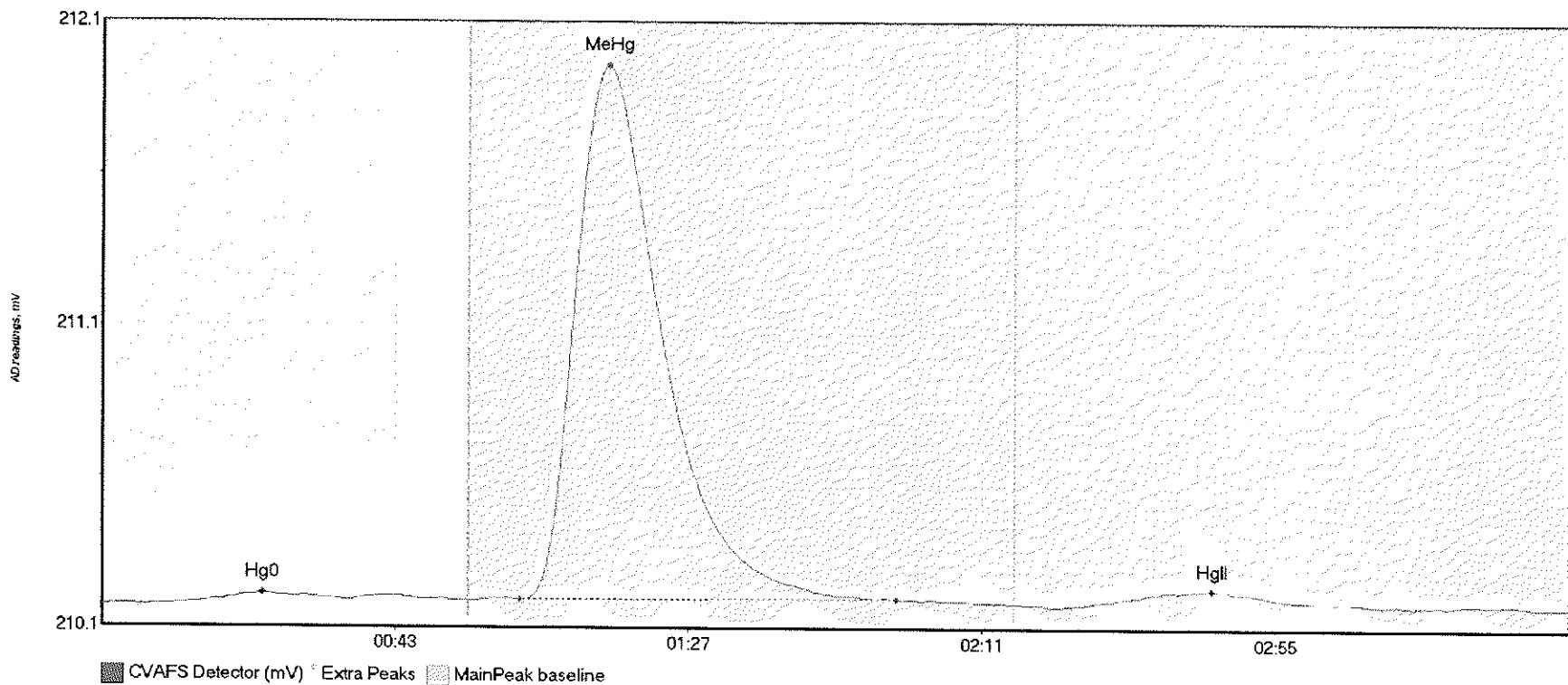
#8: SEQ-CAL5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL5 Hg0	8.721	12.7	54.6	210.20	210.23	25.8	0.053	OK	210.2051	0.00	0.02	
SEQ-CAL5 MeHg	2226.064	62.0	136.8	210.23	210.26	76.0	14.832	CT	210.2051	0.00	0.02	
SEQ-CAL5 HgII	99.385	144.2	196.0	210.25	210.23	163.7	0.407	OK	210.2051	0.00	0.02	

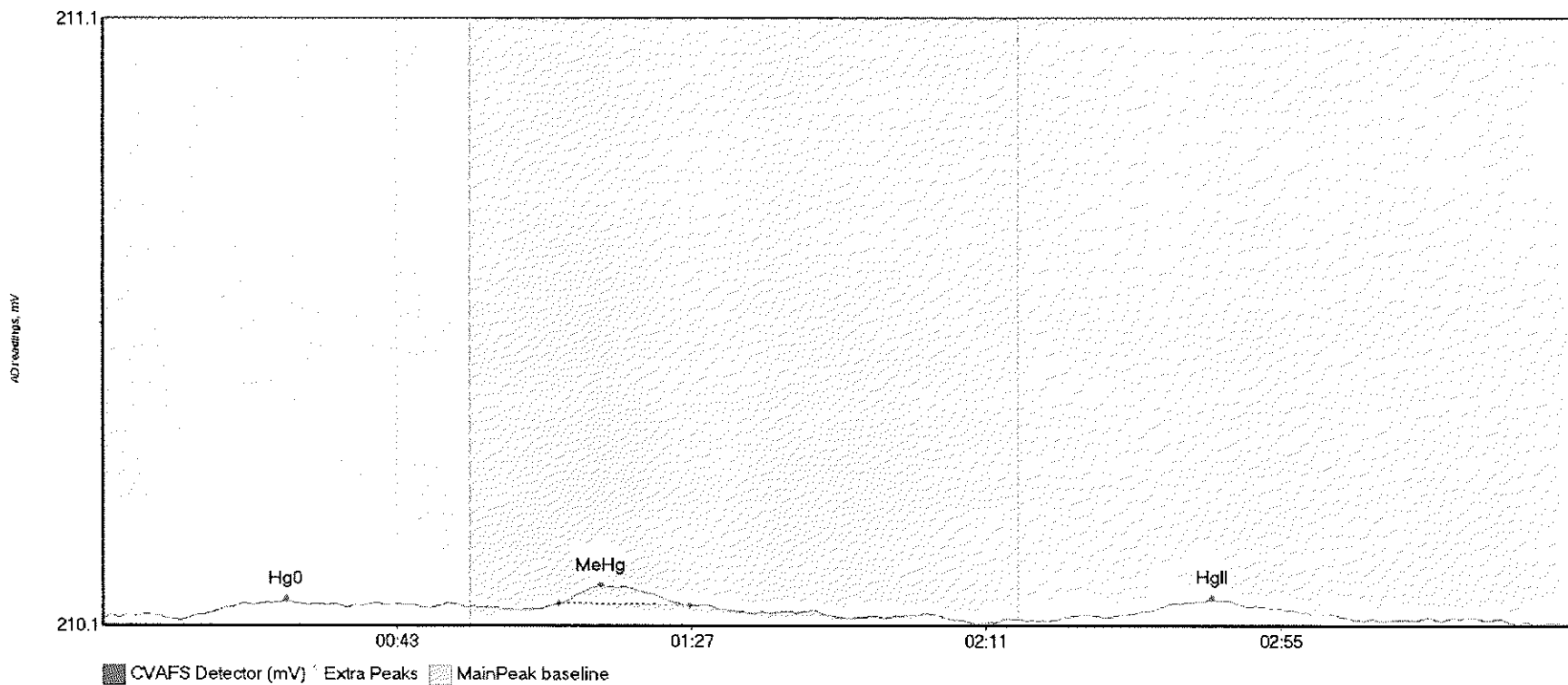
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#9: SEQ-ICV1



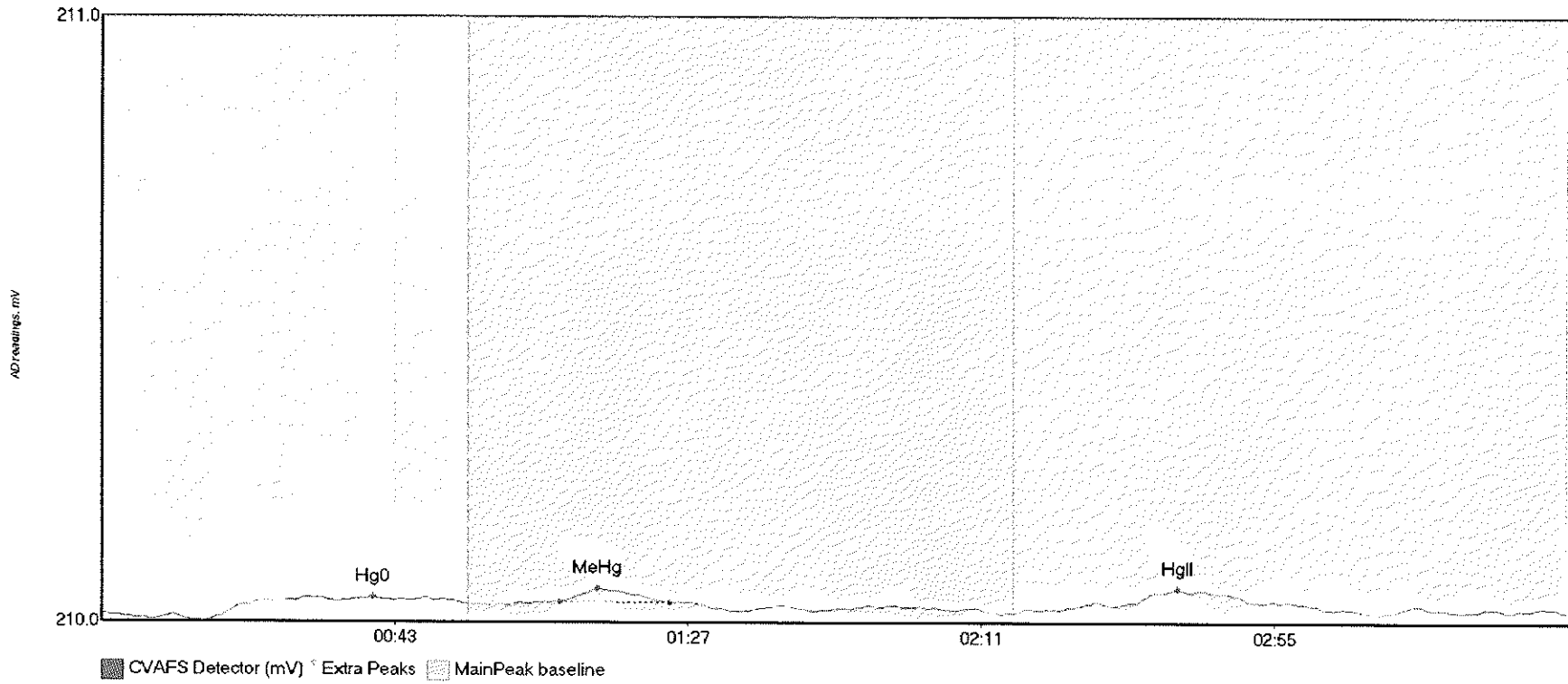
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICV1 Hg0	6.110	10.4	53.6	210.15	210.16	24.2	0.035	OK	210.1434	0.00	0.00	
SEQ-ICV1 MeHg	266.090	62.7	119.2	210.16	210.17	76.0	1.772	OK	210.1434	0.00	0.00	
SEQ-ICV1 HgII	9.710	146.5	188.1	210.15	210.16	166.4	0.049	OK	210.1434	0.00	0.00	

#10: SEQ-ICB1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICB1 Hg0	3.388	15.0	49.0	210.10	210.11	27.5	0.024	OK	210.0977	0.00	-0.01	
SEQ-ICB1 MeHg	3.450	68.2	87.7	210.12	210.12	74.4	0.030	OK	210.0977	0.00	-0.01	
SEQ-ICB1 HgII	5.088	150.1	185.2	210.10	210.10	165.7	0.030	OK	210.0977	0.00	-0.01	

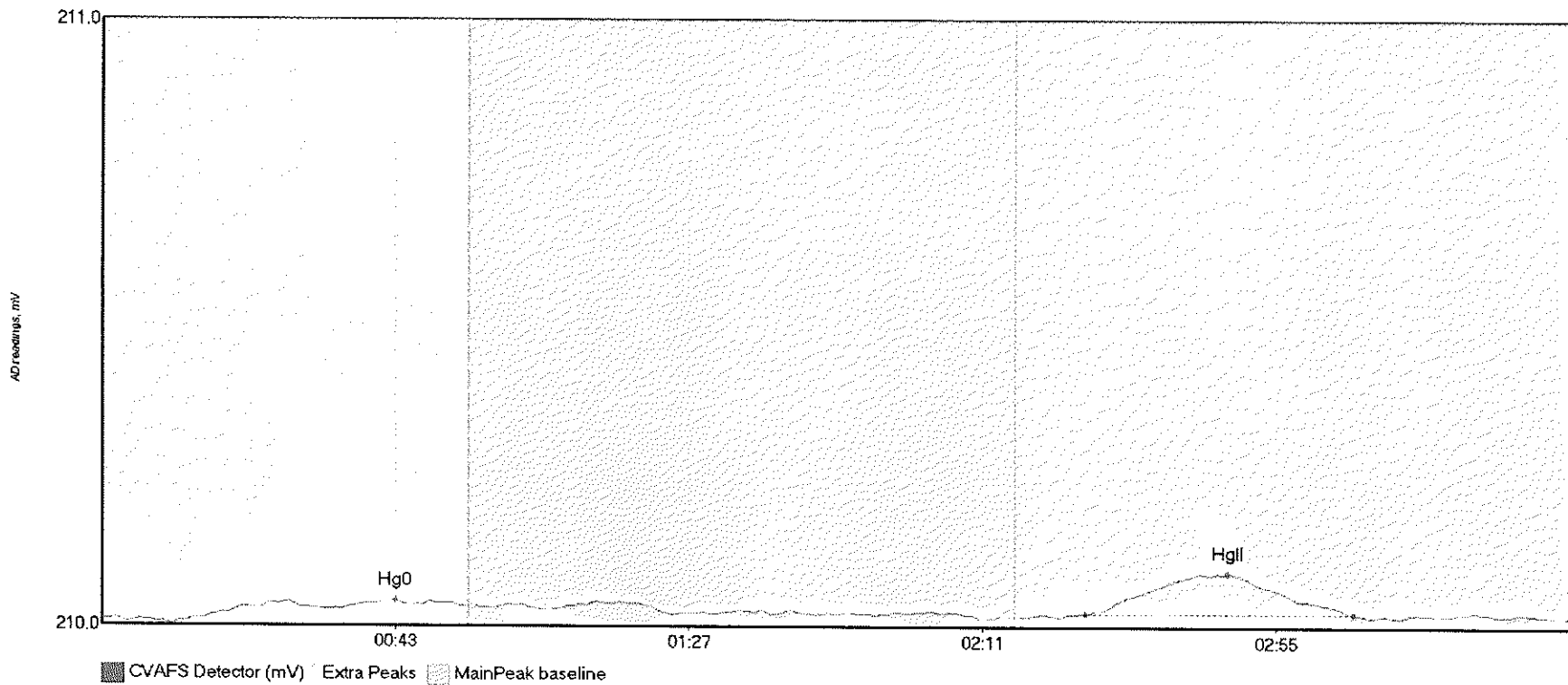
#11: F708549-BLK4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BLK4 Hg	5.575	17.8	55.0	210.05	210.08	40.7	0.032	CT	210.0589	0.00	0.00	
F708549-BLK4 Me	2.016	69.7	85.3	210.08	210.08	74.4	0.022	OK	210.0589	0.00	0.00	
F708549-BLK4 Hg	6.956	143.9	184.8	210.07	210.07	161.5	0.035	OK	210.0589	0.00	0.00	

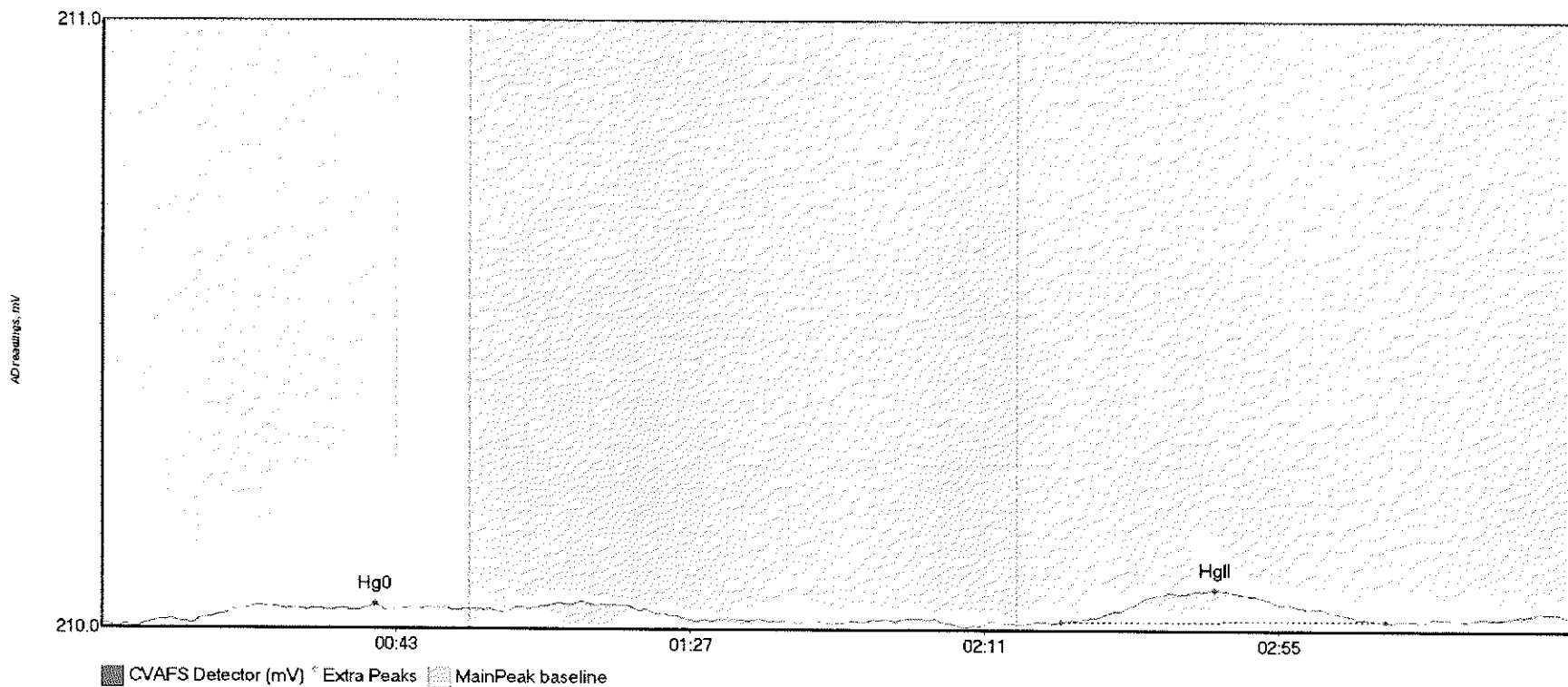
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#12: F708549-BLK5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BLK5 Hg	3.986	15.2	54.1	210.03	210.05	44.0	0.029	OK	210.0326	0.00	0.01	
F708549-BLK5 Hg	14.576	147.4	187.6	210.04	210.04	168.8	0.066	OK	210.0326	0.00	0.01	017

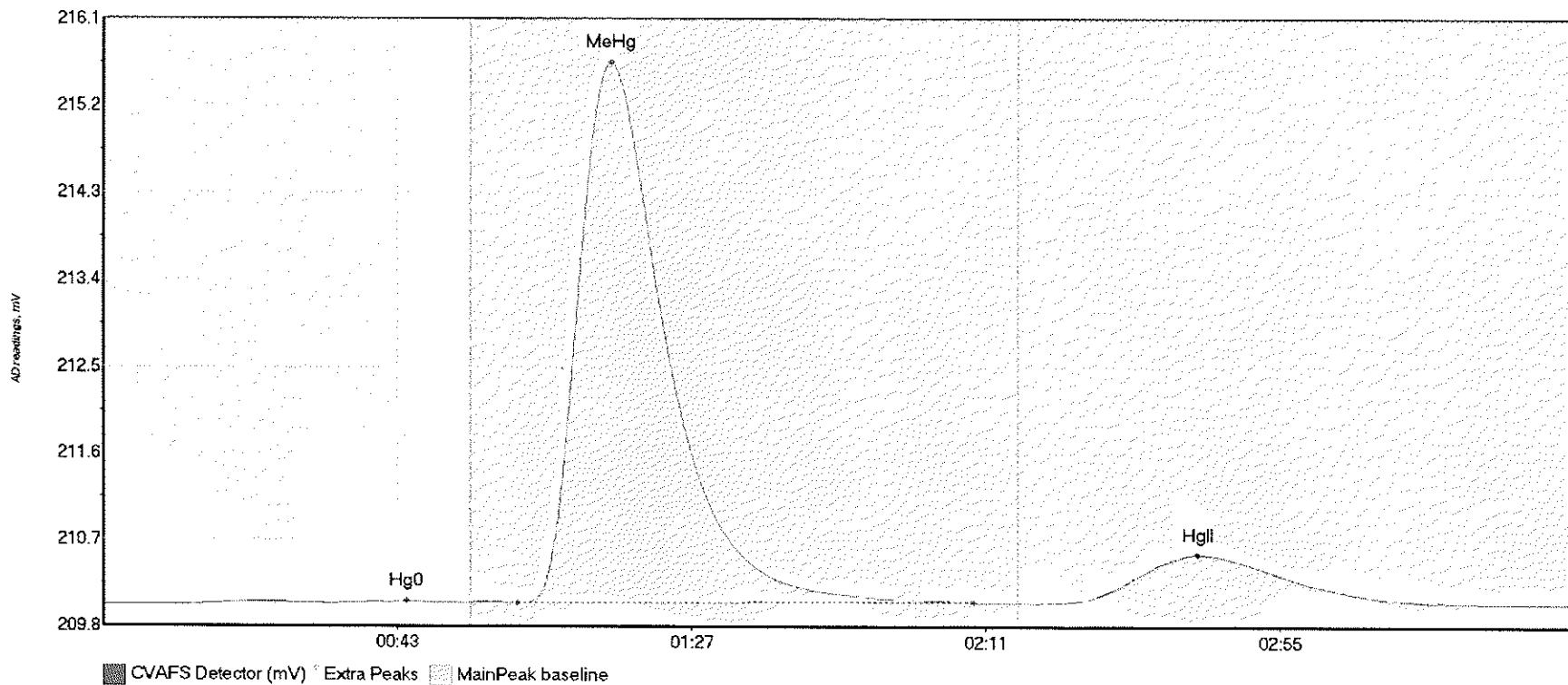
#13: F708549-BLK6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BLK6 Hg	3.204	13.6	43.0	210.01	210.03	40.9	0.029	OK	210.0029	0.00	0.02	
F708549-BLK6 Hg	13.299	143.4	192.1	210.01	210.01	166.4	0.054	OK	210.0029	0.00	0.02	017

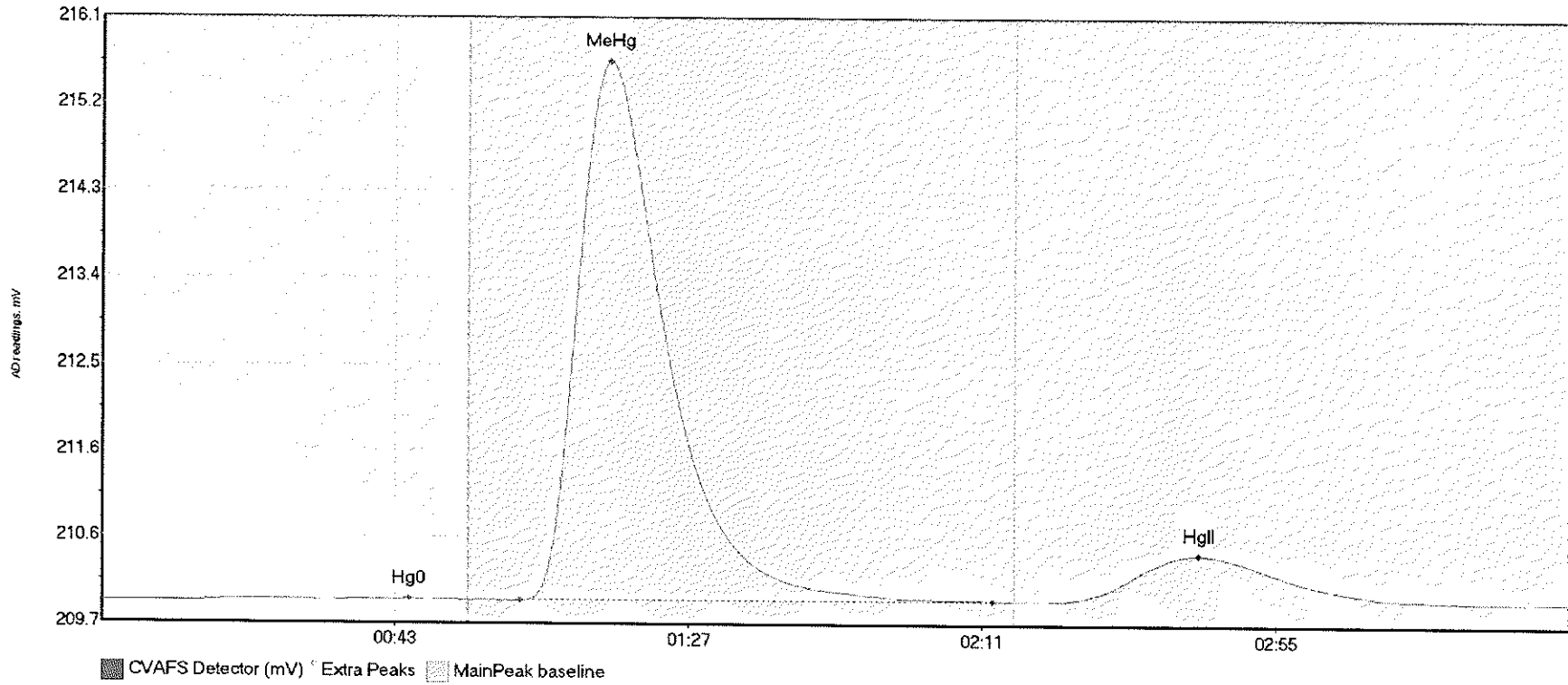


#14: F708549-BS2



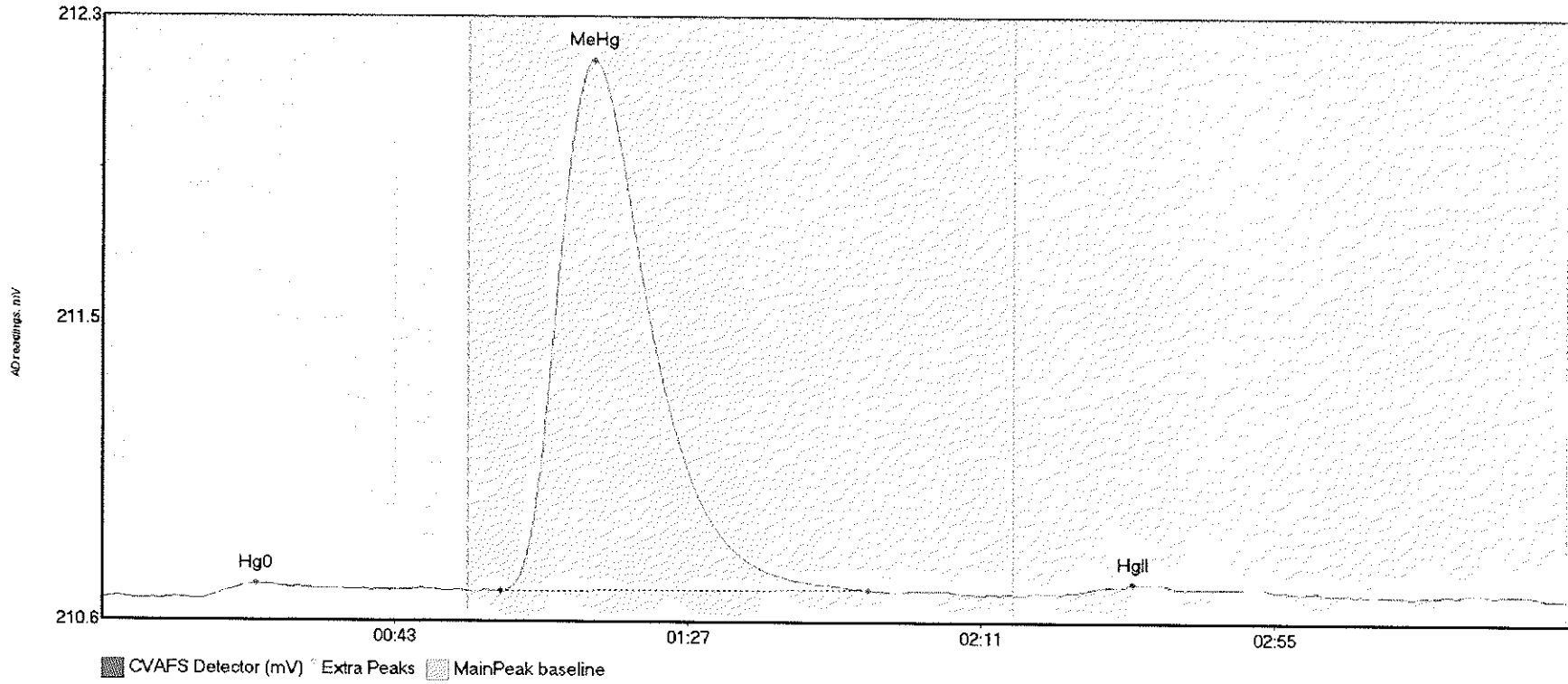
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BS2 Hg0	4.364	13.5	53.2	209.99	210.01	45.4	0.029	OK	209.9909	0.00	0.00	
F708549-BS2 MeH	856.196	62.0	130.1	210.00	210.01	76.0	5.646	OK	209.9909	0.00	0.00	
F708549-BS2 HgI	123.128	143.0	202.5	210.01	210.01	163.7	0.503	OK	209.9909	0.00	0.00	

#15: F708549-BSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
F708549-BSD2 Hg	4.599	14.2	54.2	209.98	209.99	46.2	0.028	OK	209.9764	0.00	0.02	
F708549-BSD2 Me	858.194	62.7	133.6	209.99	210.00	76.2	5.635	OK	209.9764	0.00	0.02	
F708549-BSD2 Hg	118.832	143.2	204.6	209.99	210.00	164.4	0.485	OK	209.9764	0.00	0.02	

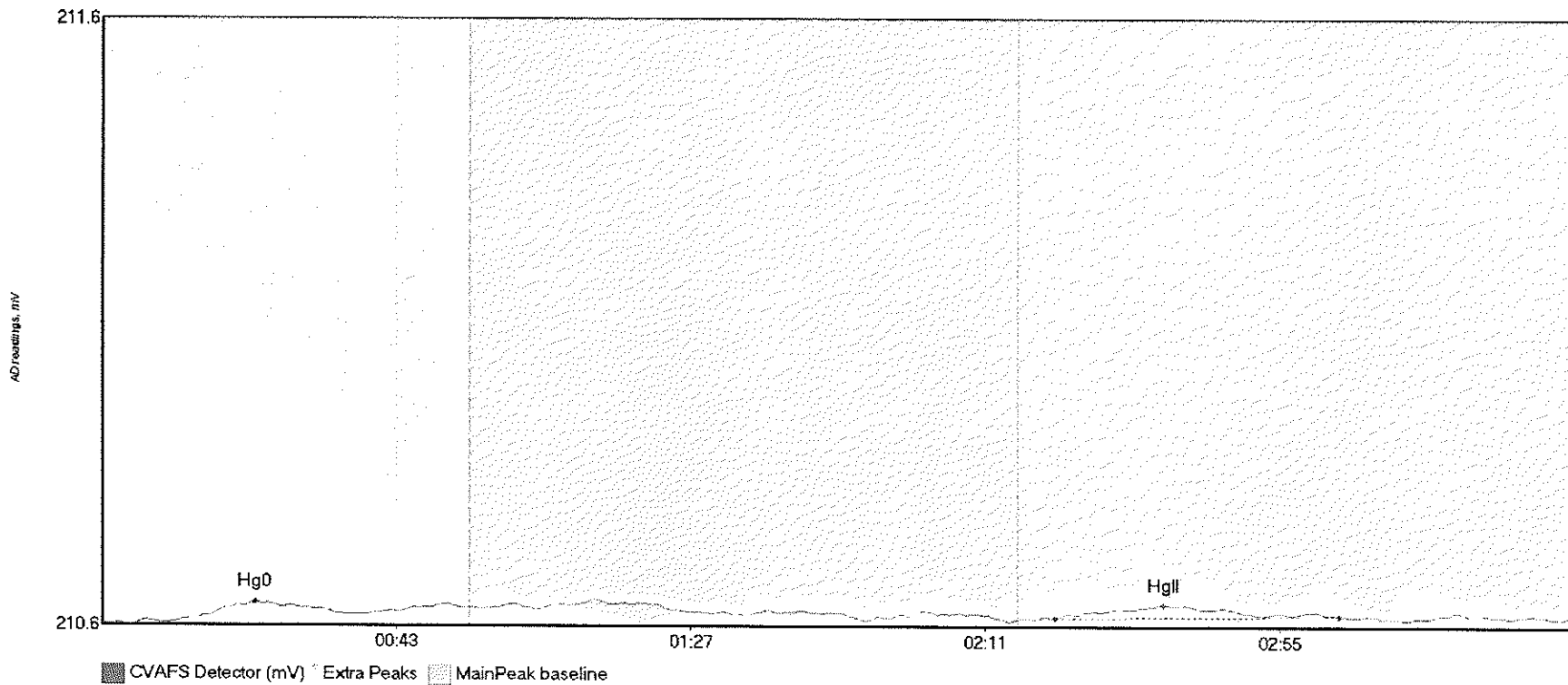
#16: SEQ-CCV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0	7.089	14.8	55.0	210.64	210.67	23.2	0.045	CT	210.6470	0.00	0.00	
SEQ-CCV1 MeHg	249.523	59.9	115.0	210.67	210.67	73.7	1.539	OK	210.6470	0.00	0.00	
SEQ-CCV1 HgII	5.573	144.0	179.7	210.66	210.67	154.8	0.029	OK	210.6470	0.00	0.00	

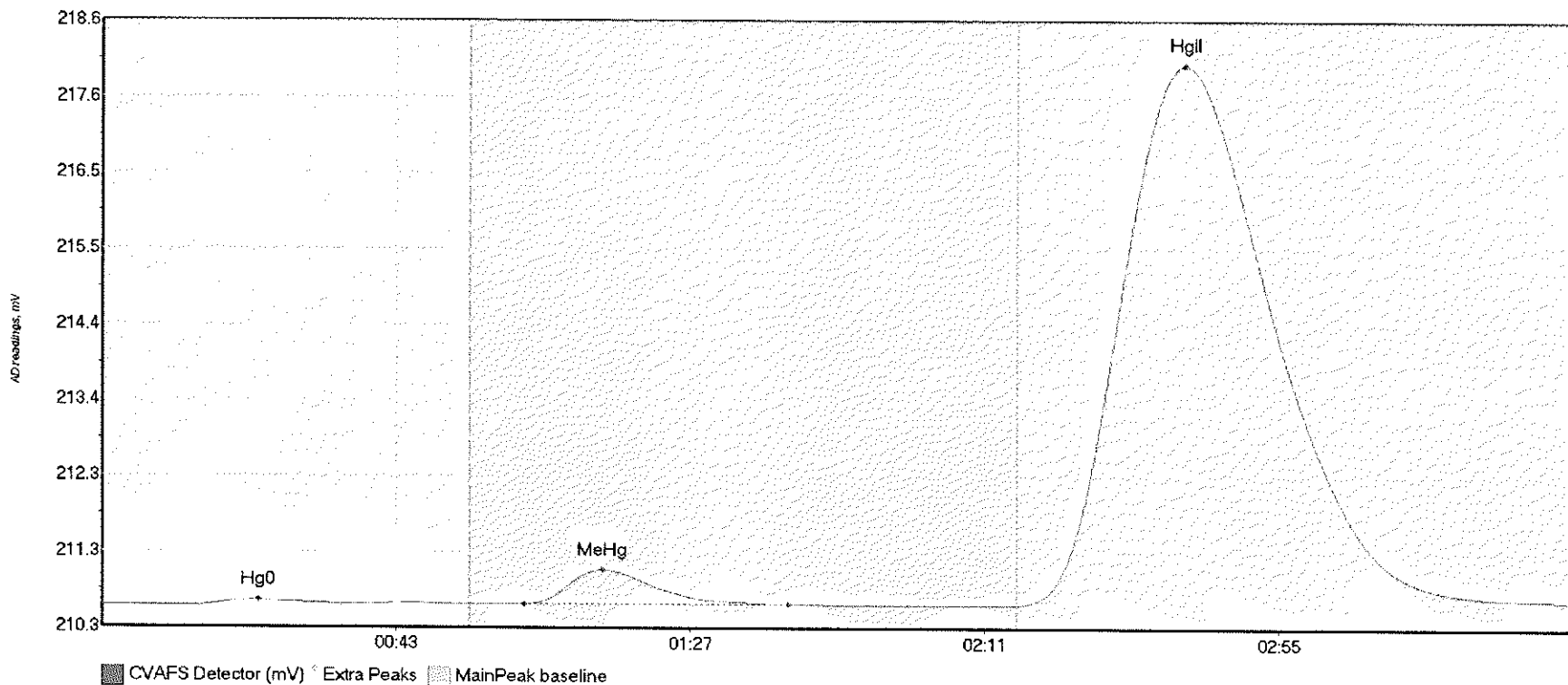
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#17: SEQ-CCB1



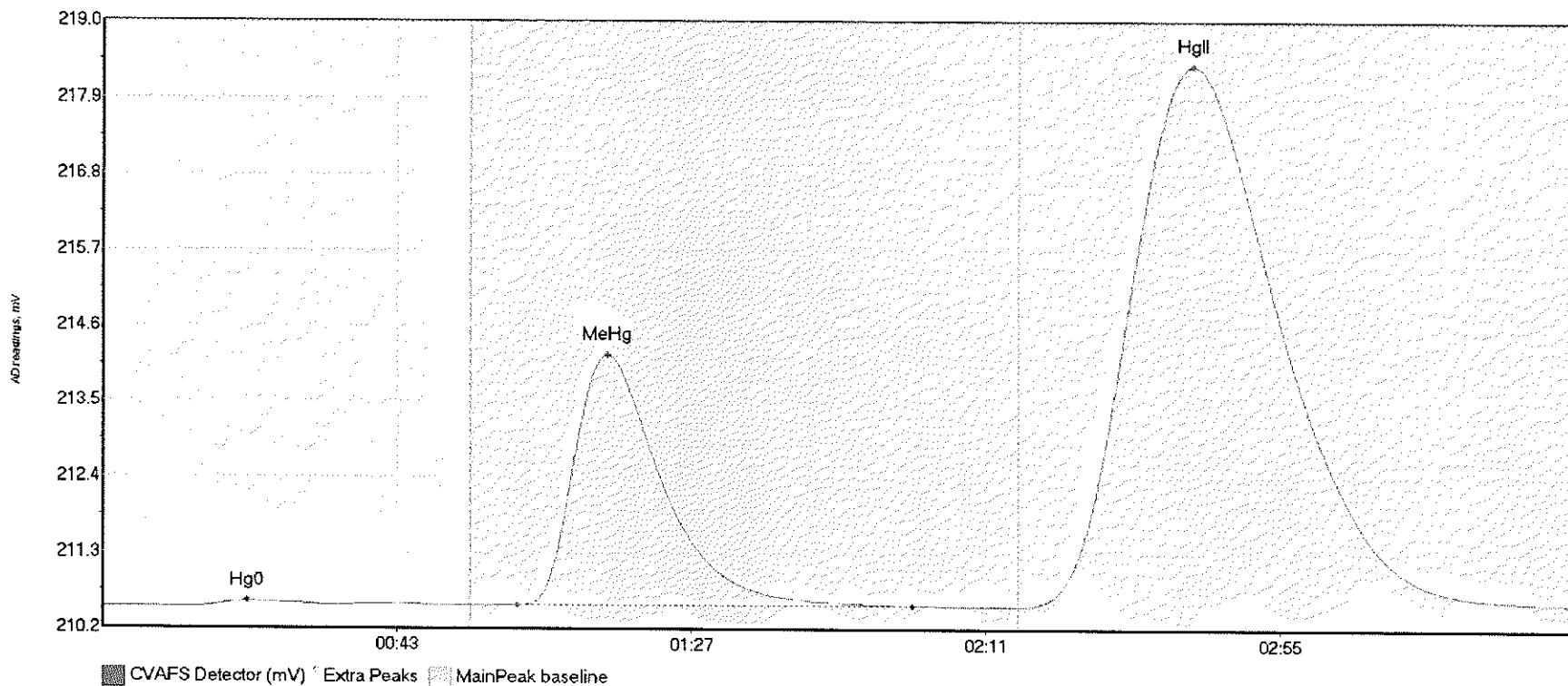
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB1 Hg0	4.021	9.5	39.1	210.61	210.62	22.9	0.035	OK	210.6071	0.00	0.01	
SEQ-CCB1 HgII	4.495	142.4	184.9	210.62	210.62	158.6	0.023	OK	210.6071	0.00	0.01	017

#18: F708549-DUP1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-DUP1 Hg	11.537	12.2	55.0	210.56	210.59	23.4	0.077	CT	210.5576	0.00	0.08	
F708549-DUP1 Me	69.854	63.1	102.7	210.58	210.58	74.9	0.477	OK	210.5576	0.00	0.08	
F708549-DUP1 Hg	1918.092	136.8	219.7	210.58	210.63	161.9	7.429	OK	210.5576	0.00	0.08	

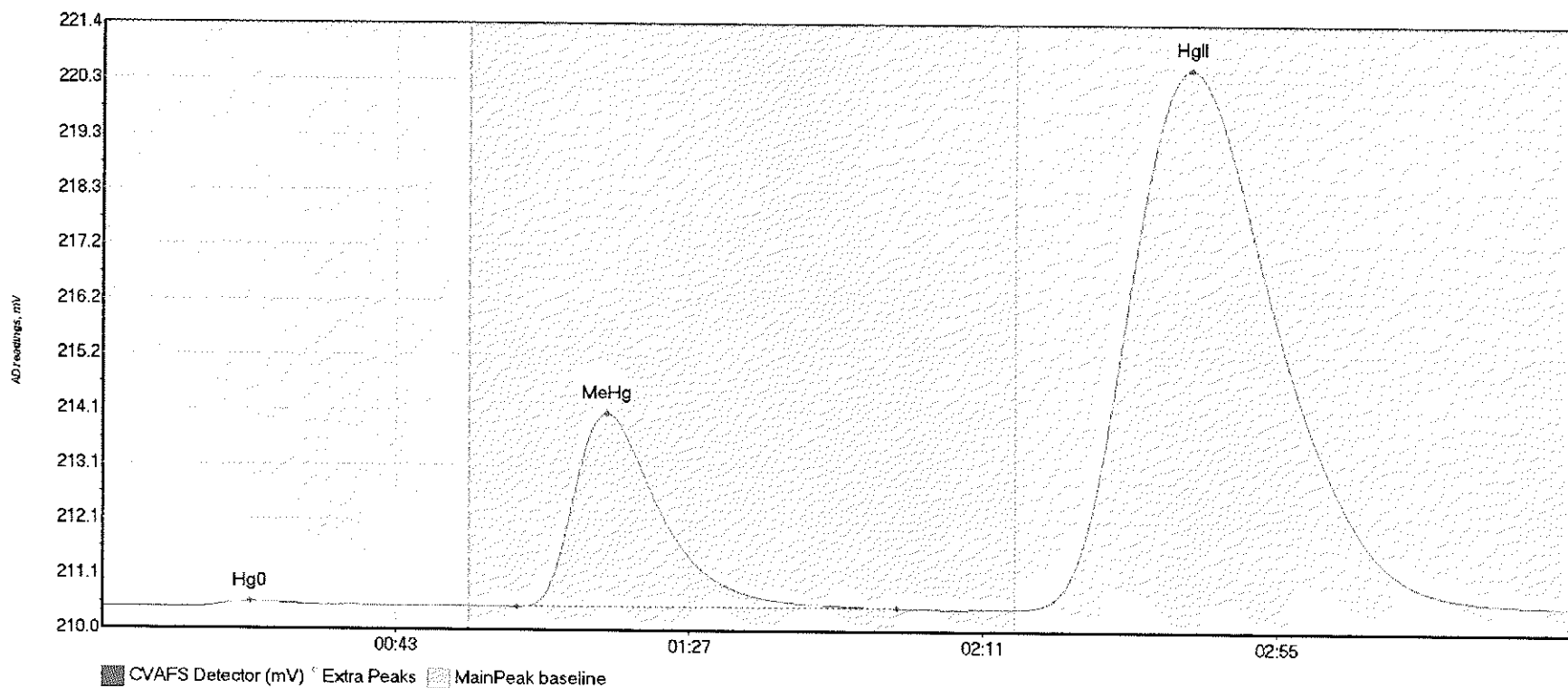
#19: F708549-MS3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-MS3 Hg0	12.067	13.7	55.0	210.50	210.53	21.6	0.081	CT	210.5003	0.00	0.06	
F708549-MS3 MeH	551.060	62.0	121.0	210.53	210.53	75.4	3.631	OK	210.5003	0.00	0.06	
F708549-MS3 HgI	1999.839	136.8	219.4	210.52	210.56	162.8	7.843	OK	210.5003	0.00	0.06	

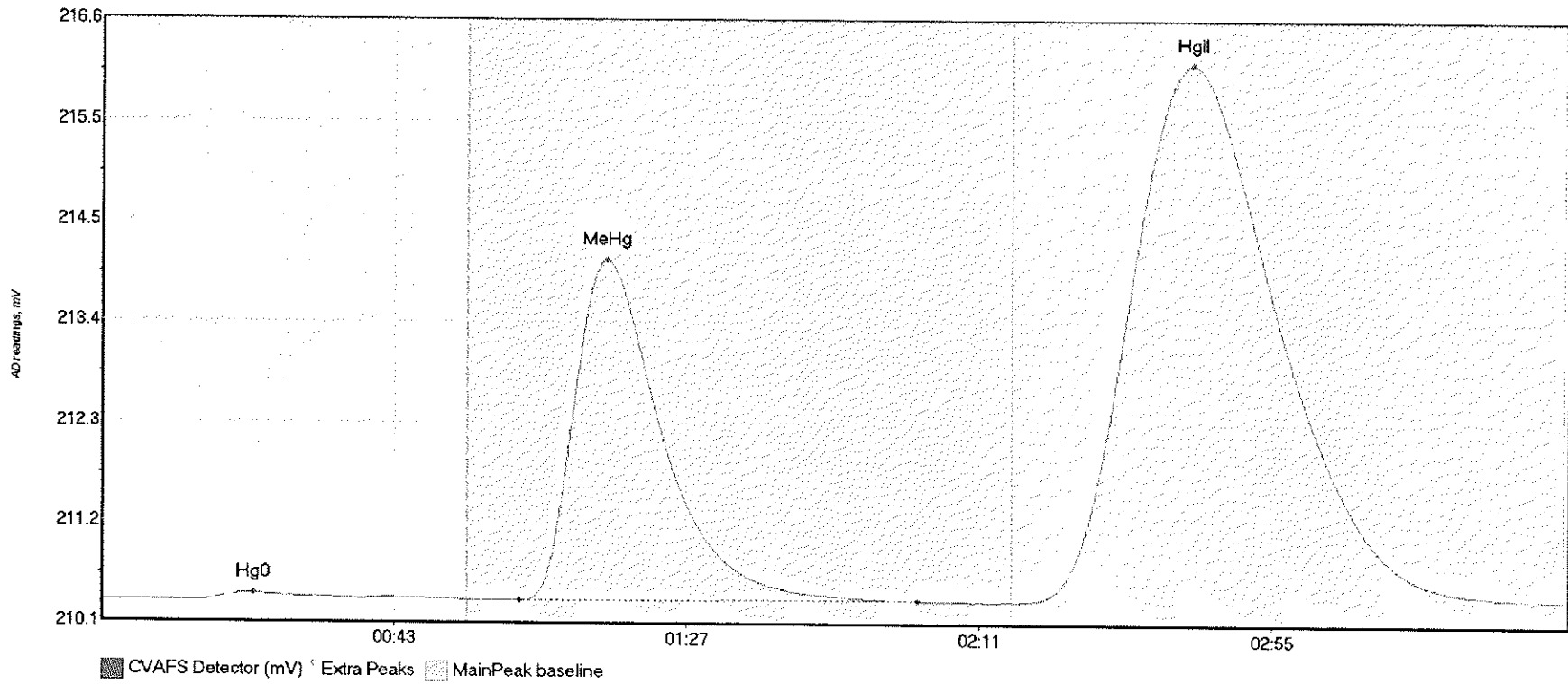
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#20: F708549-MSD3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-MSD3 Hg	15.082	13.5	53.6	210.43	210.46	22.2	0.104	OK	210.4396	0.00	0.08	
F708549-MSD3 Me	547.102	62.1	119.2	210.46	210.46	75.6	3.624	OK	210.4396	0.00	0.08	
F708549-MSD3 Hg	2550.062	136.8	219.8	210.45	210.52	163.0	10.108	CT	210.4396	0.00	0.08	

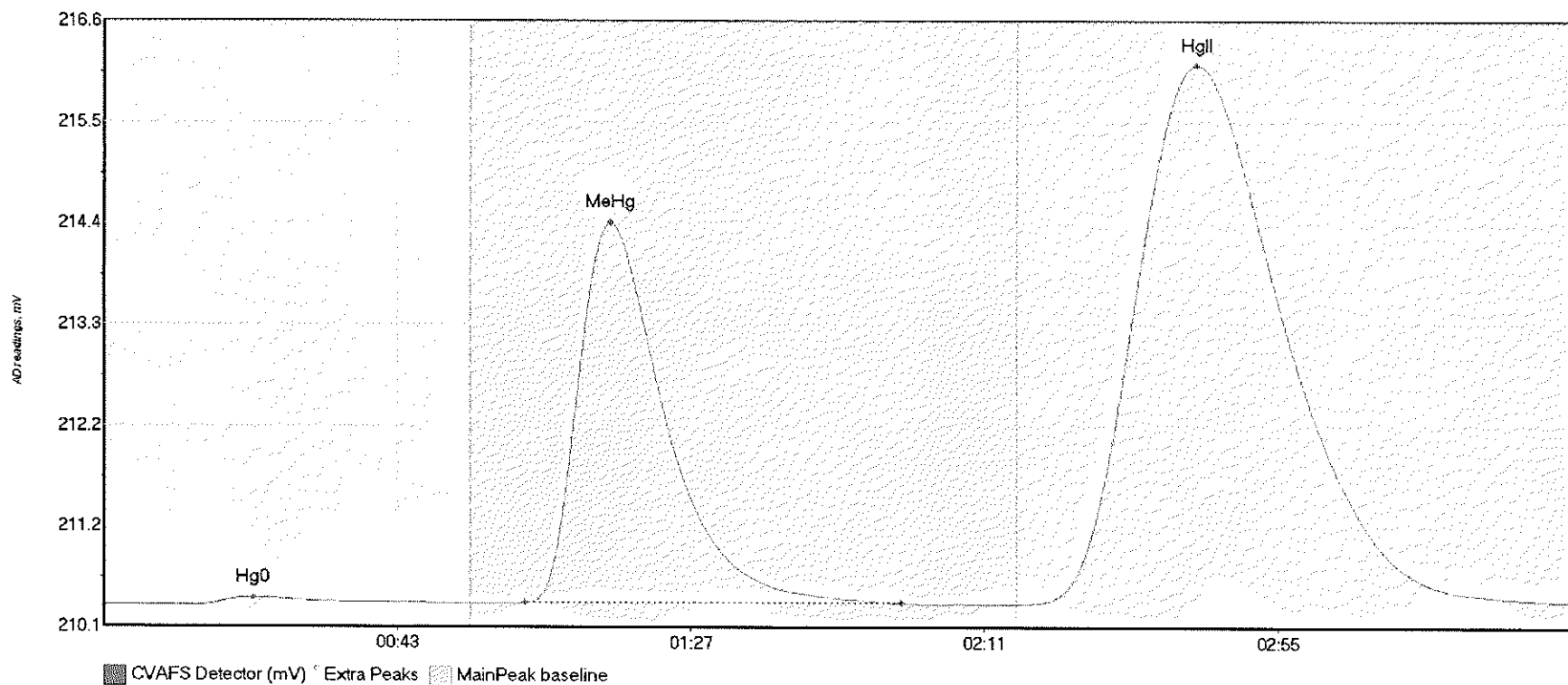
#21: F708549-MS4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-MS4 Hg0	12.350	15.1	55.0	210.37	210.38	22.8	0.074	CT	210.3670	0.00	0.04	
F708549-MS4 MeH	558.732	62.8	122.7	210.37	210.38	76.0	3.671	OK	210.3670	0.00	0.04	
F708549-MS4 HgI	1461.913	138.6	219.2	210.37	210.41	163.9	5.783	OK	210.3670	0.00	0.04	

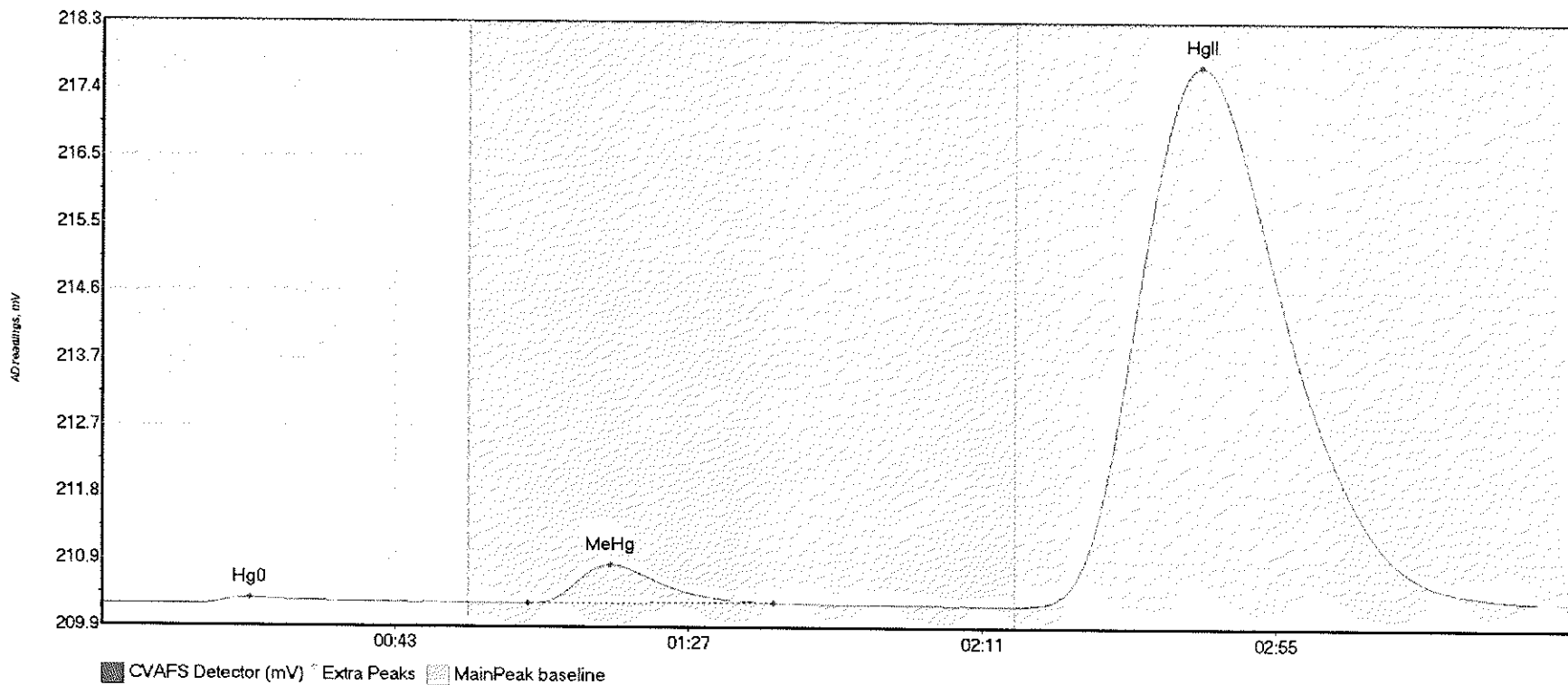


#22: F708549-MSD4



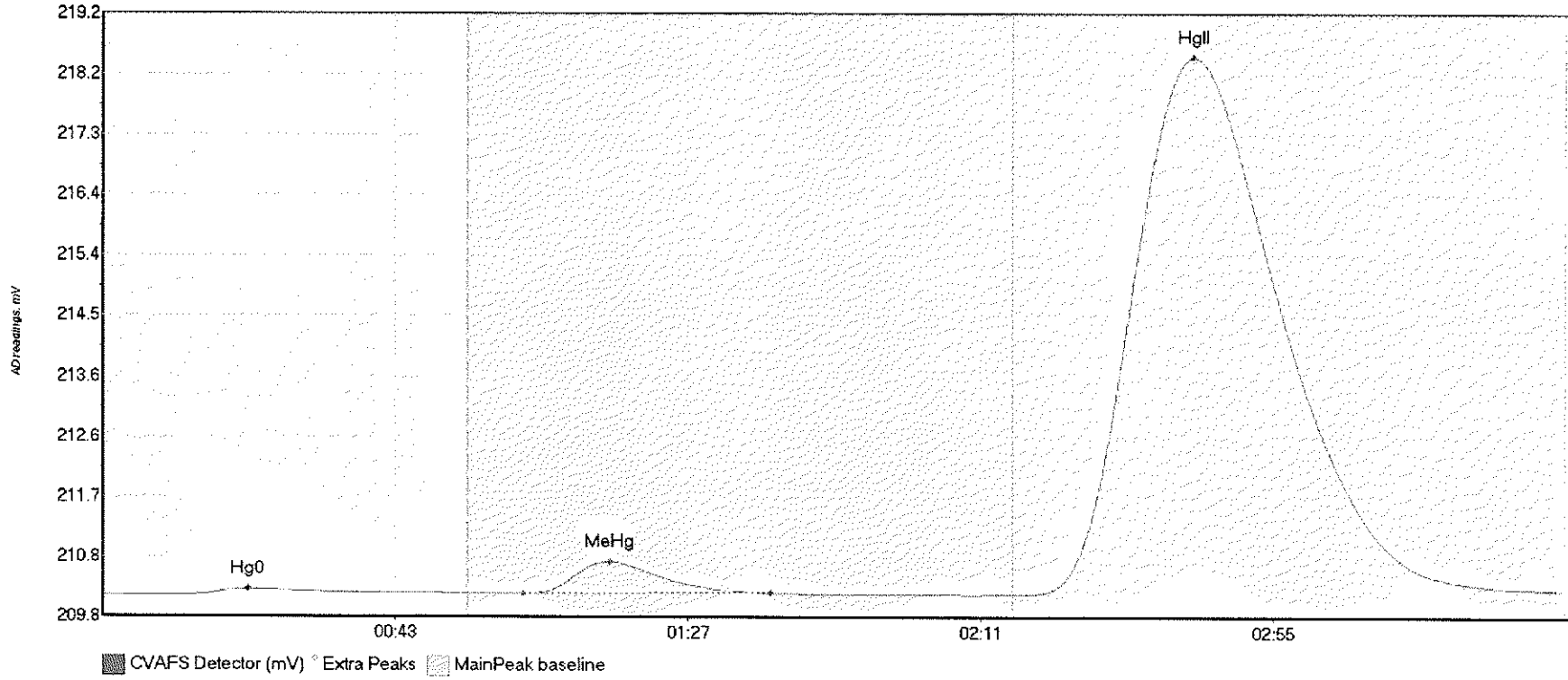
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-MSD4 Hg	12.801	13.2	54.6	210.29	210.31	22.4	0.078	OK	210.3005	0.00	0.04	
F708549-MSD4 Me	622.173	63.1	119.6	210.32	210.32	76.0	4.132	OK	210.3005	0.00	0.04	
F708549-MSD4 Hg	1477.818	138.4	219.7	210.31	210.34	163.8	5.855	OK	210.3005	0.00	0.04	

#23: 1708151-04RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-04RE2 H	12.533	14.2	53.9	210.23	210.26	22.1	0.084	OK	210.2343	0.00	0.06	
1708151-04RE2 M	76.664	63.8	100.7	210.25	210.26	76.3	0.540	OK	210.2343	0.00	0.06	
1708151-04RE2 H	1902.398	138.2	219.7	210.23	210.29	164.6	7.505	OK	210.2343	0.00	0.06	

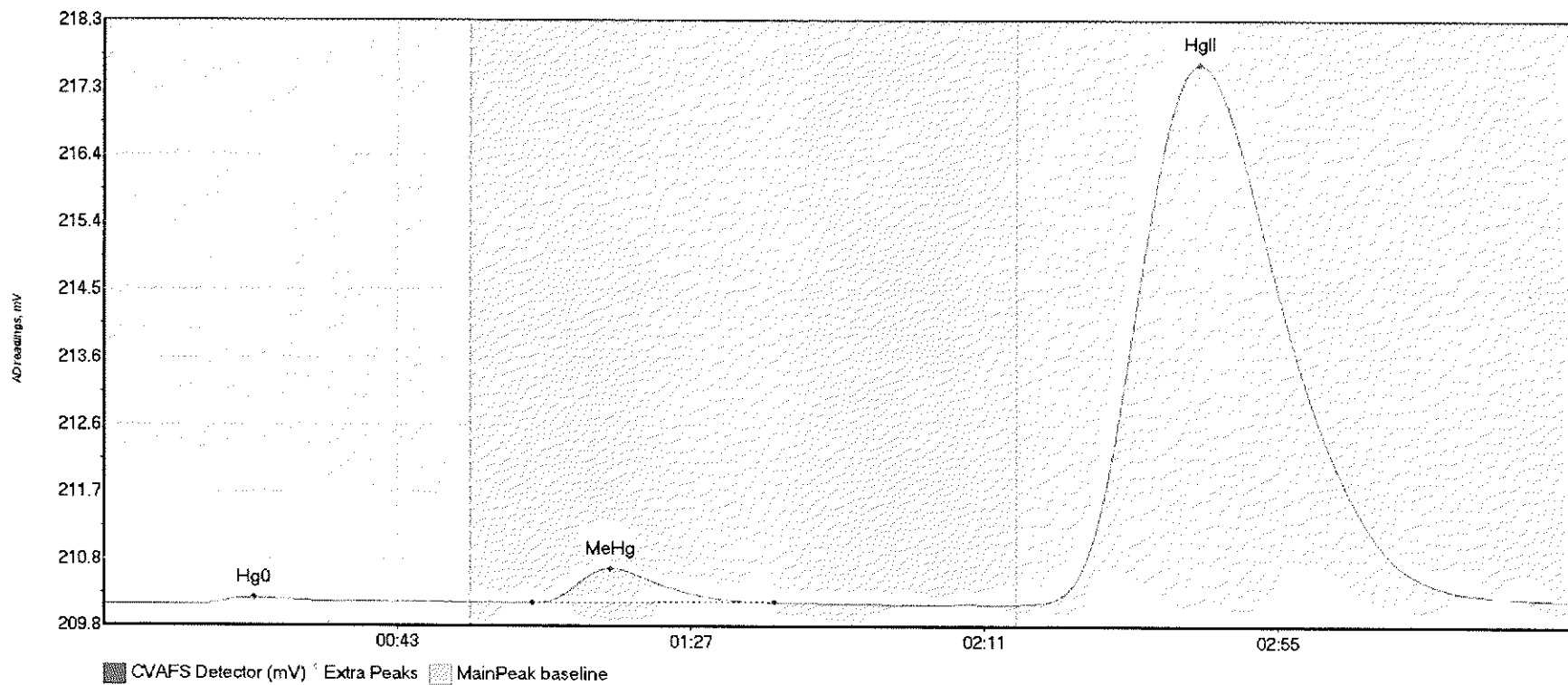
#24: 1708151-05RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1708151-05RE2 H	14.405	10.5	53.4	210.18	210.21	21.8	0.093	OK	210.1710	0.00	0.09	
1708151-05RE2 M	71.219	63.3	100.5	210.20	210.21	76.3	0.498	OK	210.1710	0.00	0.09	
1708151-05RE2 H	2101.343	139.0	219.7	210.19	210.26	164.1	8.312	OK	210.1710	0.00	0.09	

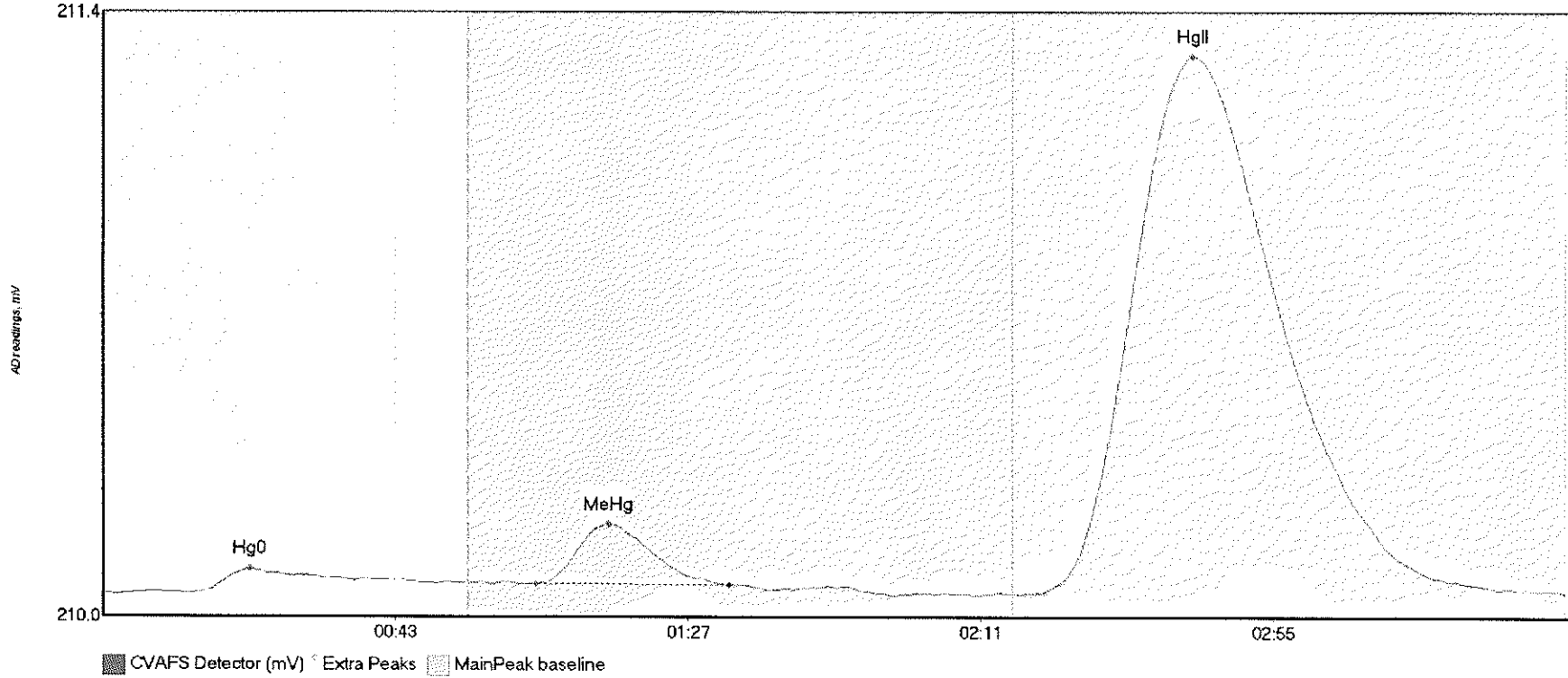
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#25: 1708151-06RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-06RE2 H	12.962	14.4	53.2	210.13	210.17	22.6	0.092	OK	210.1378	0.00	0.06	
1708151-06RE2 M	67.103	64.3	100.6	210.16	210.17	76.0	0.477	OK	210.1378	0.00	0.06	
1708151-06RE2 H	1887.832	138.2	219.8	210.15	210.20	164.2	7.504	CT	210.1378	0.00	0.06	

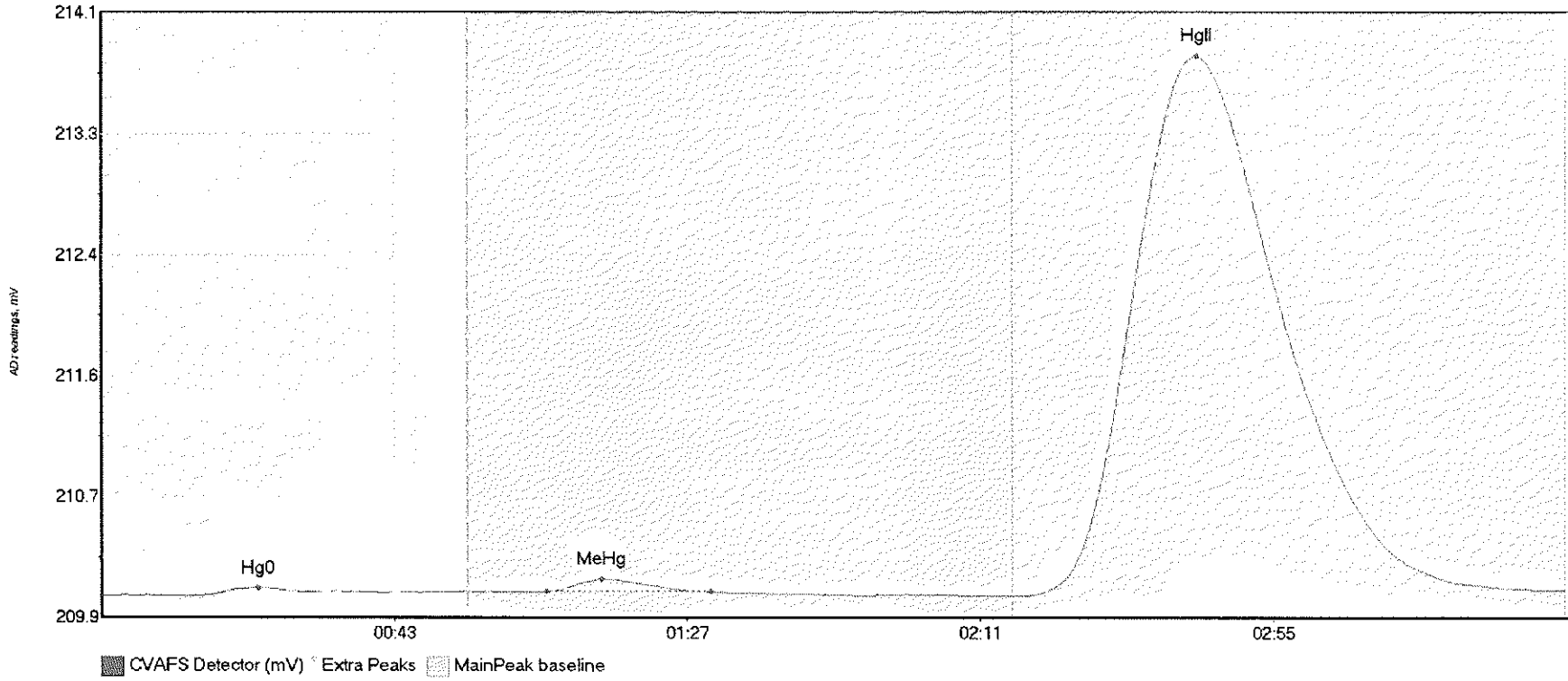
#26: 1708151-07RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-07RE2 H	7.830	13.5	50.3	210.10	210.12	22.2	0.053	OK	210.0961	0.00	0.00	
1708151-07RE2 M	17.050	65.2	94.2	210.12	210.11	76.2	0.134	OK	210.0961	0.00	0.00	
1708151-07RE2 H	299.470	141.0	219.8	210.10	210.10	163.9	1.187	CT	210.0961	0.00	0.00	

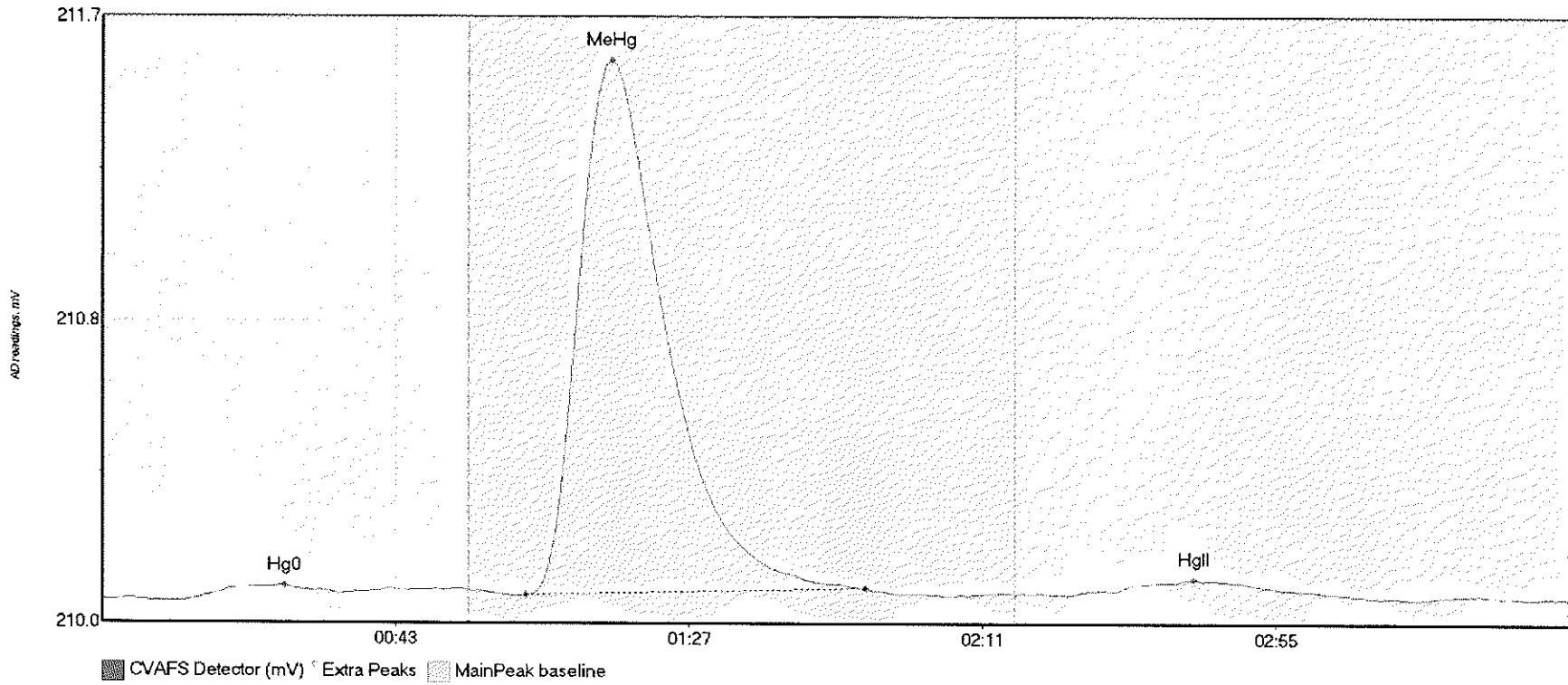
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#27: 1708151-08RE2



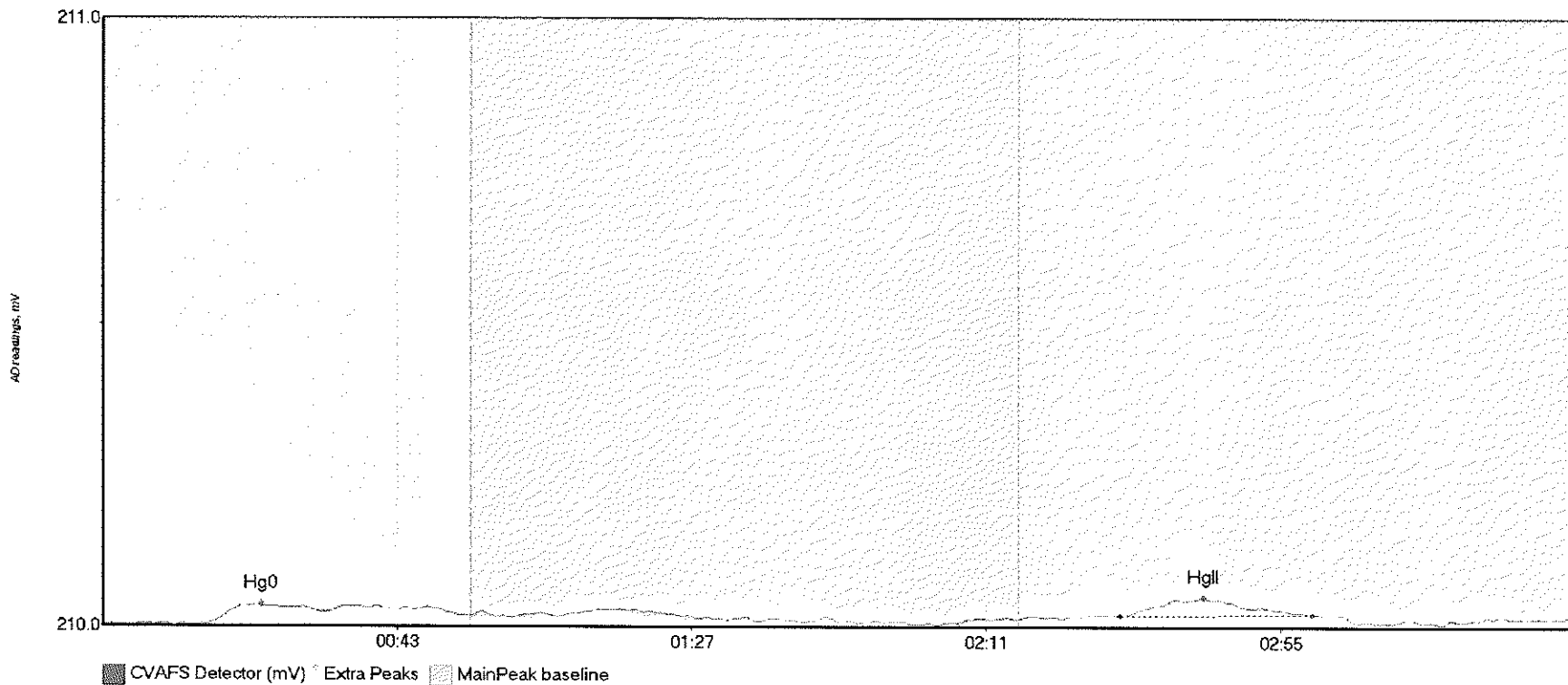
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-08RE2 H	5.589	14.7	42.4	210.06	210.08	23.6	0.053	OK	210.0630	0.00	0.04	
1708151-08RE2 M	10.167	66.8	91.6	210.09	210.09	75.2	0.085	OK	210.0630	0.00	0.04	
1708151-08RE2 H	940.250	138.3	219.7	210.06	210.10	164.4	3.726	OK	210.0630	0.00	0.04	

#28: SEQ-CCV2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV2 Hg0	4.458	11.5	35.7	210.03	210.05	27.4	0.044	OK	210.0365	0.00	0.01	
SEQ-CCV2 MeHg	227.883	63.6	114.5	210.05	210.07	76.4	1.523	OK	210.0365	0.00	0.01	
SEQ-CCV2 HgII	9.266	144.8	184.4	210.05	210.05	163.8	0.046	OK	210.0365	0.00	0.01	

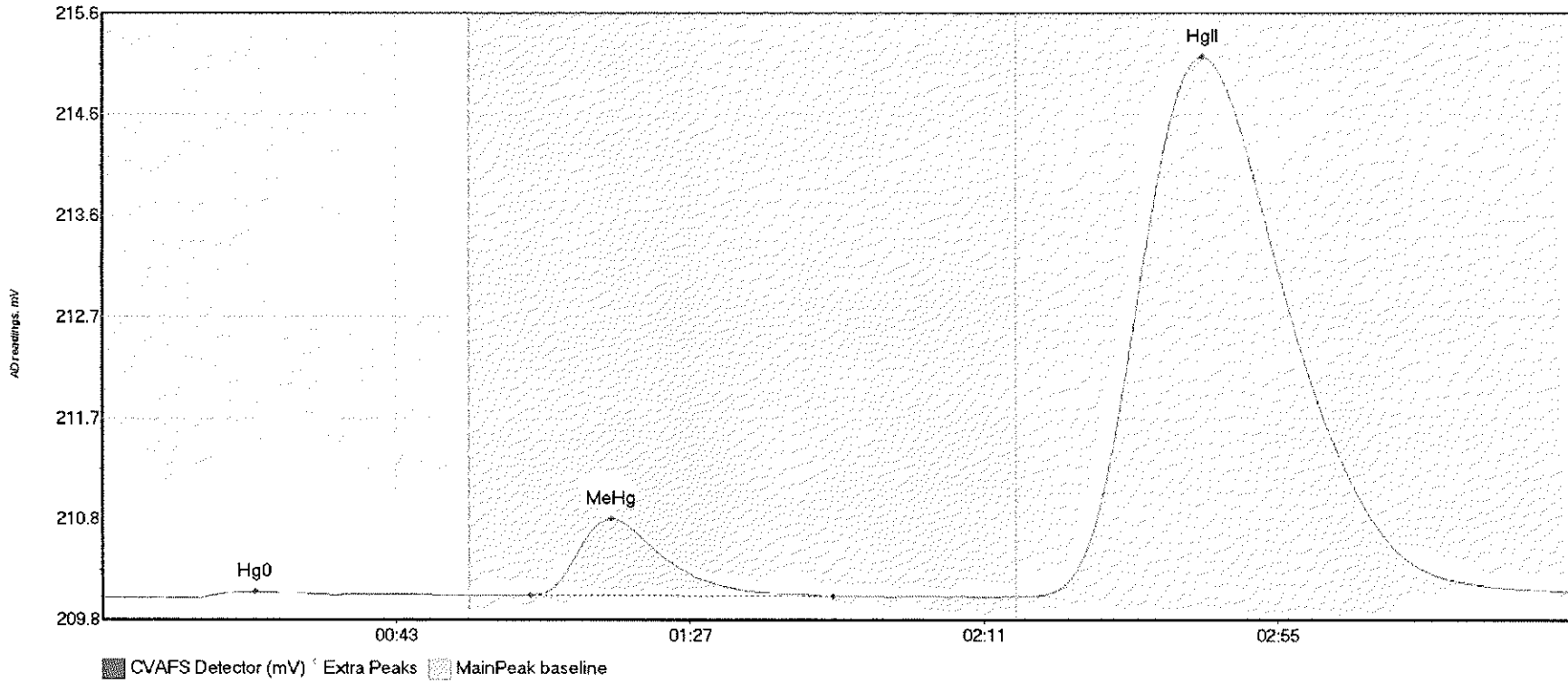
#29: SEQ-CCB2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
SEQ-CCB2 Hg0	6.604	15.7	54.7	210.01	210.02	23.7	0.030	OK	210.0097	0.00	0.01	
SEQ-CCB2 HgII	4.436	152.1	180.8	210.02	210.03	164.5	0.031	OK	210.0097	0.00	0.01	017

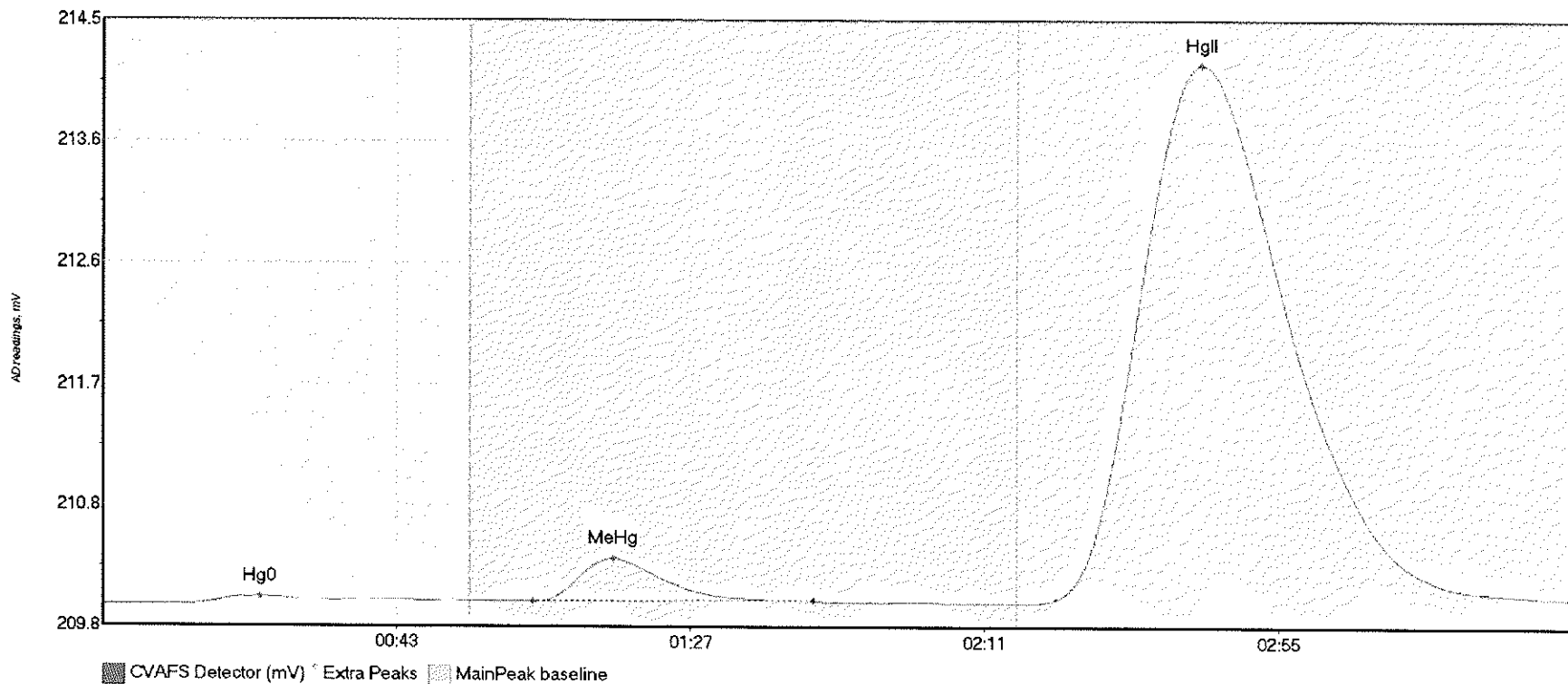


#30: 1708151-09RE2



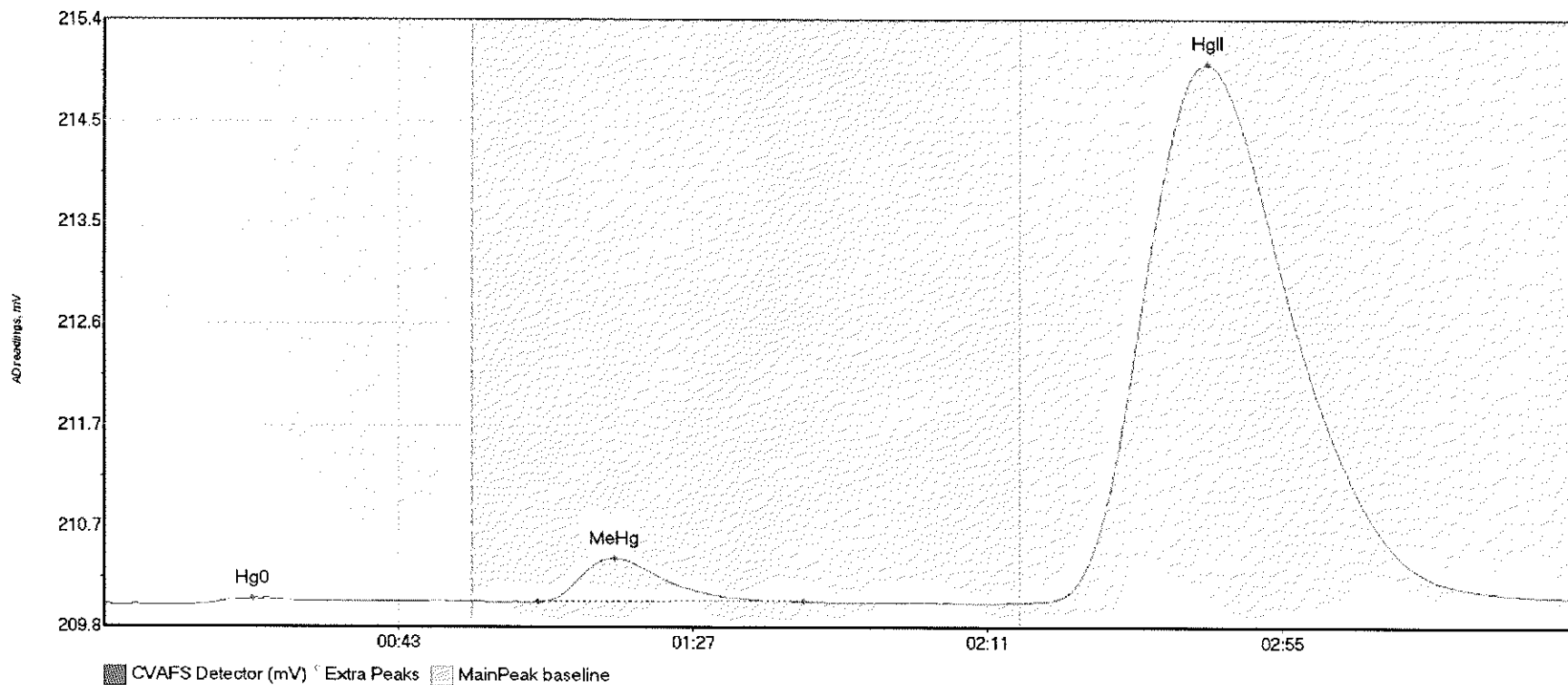
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-09RE2 H	9.849	12.8	52.2	209.99	210.02	22.9	0.059	OK	210.0005	0.00	0.06	
1708151-09RE2 M	107.757	64.1	109.4	210.03	210.02	76.3	0.725	OK	210.0005	0.00	0.06	
1708151-09RE2 H	1317.102	139.0	218.5	210.02	210.06	164.7	5.142	OK	210.0005	0.00	0.06	

#31: 1708151-10RE2



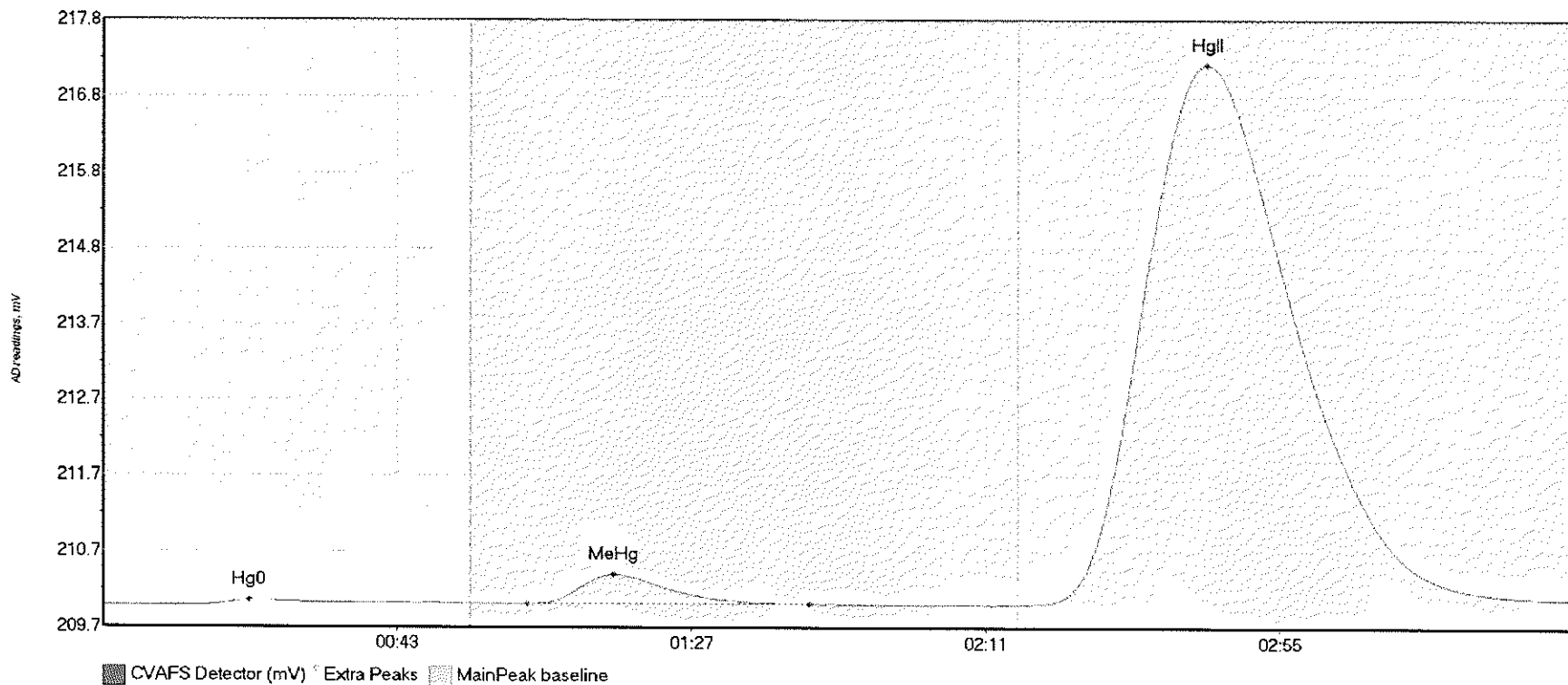
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-10RE2 H	9.213	13.0	55.0	209.99	210.02	23.6	0.058	CT	209.9924	0.00	0.06	
1708151-10RE2 M	47.072	64.4	106.5	210.02	210.02	76.4	0.333	OK	209.9924	0.00	0.06	
1708151-10RE2 H	1050.717	138.6	219.8	210.01	210.05	164.3	4.178	CT	209.9924	0.00	0.06	

#32: 1708151-11RE2



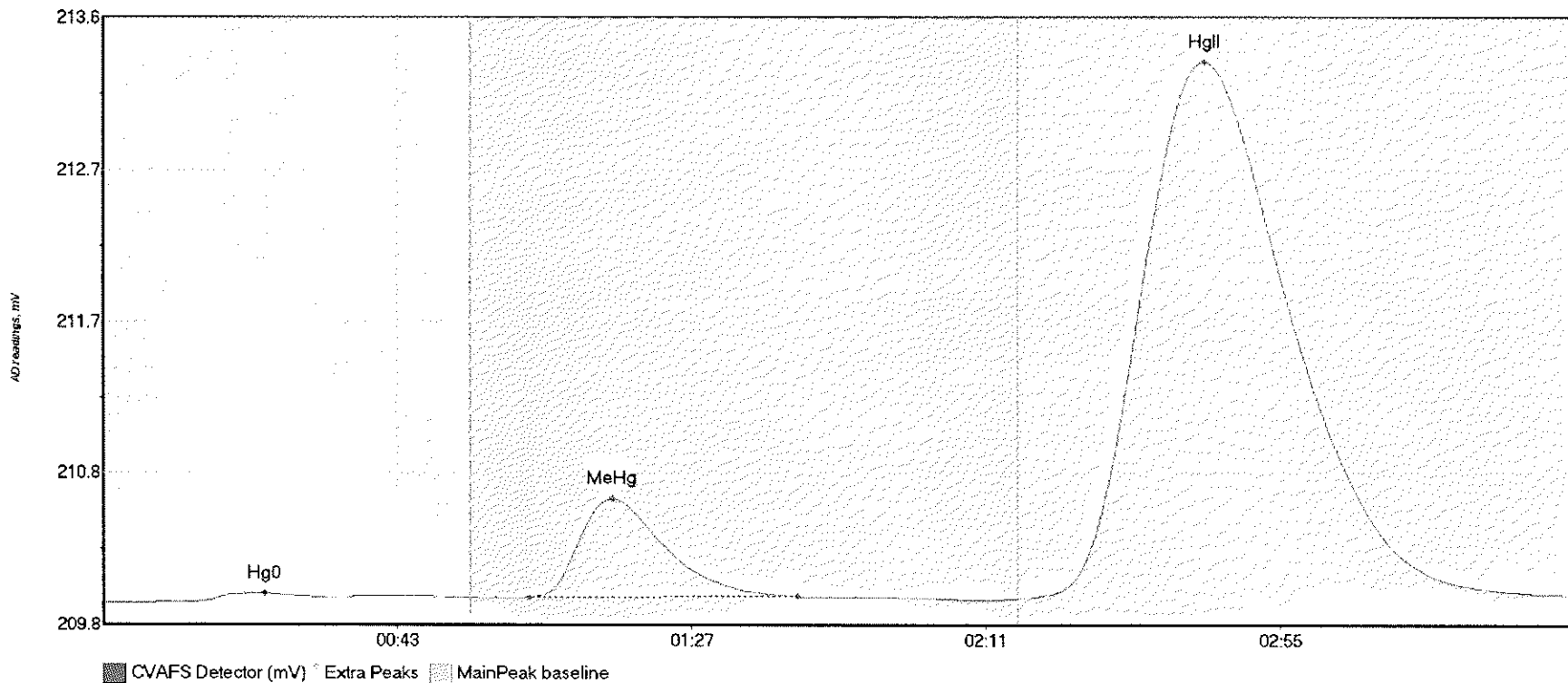
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-11RE2 H	4.533	13.9	34.0	209.99	210.01	22.3	0.054	OK	209.9887	0.00	0.07	
1708151-11RE2 M	58.968	64.9	104.4	210.01	210.02	76.3	0.407	OK	209.9887	0.00	0.07	
1708151-11RE2 H	1270.706	136.8	219.5	210.01	210.06	164.7	5.019	OK	209.9887	0.00	0.07	

#33: 1708151-12RE2



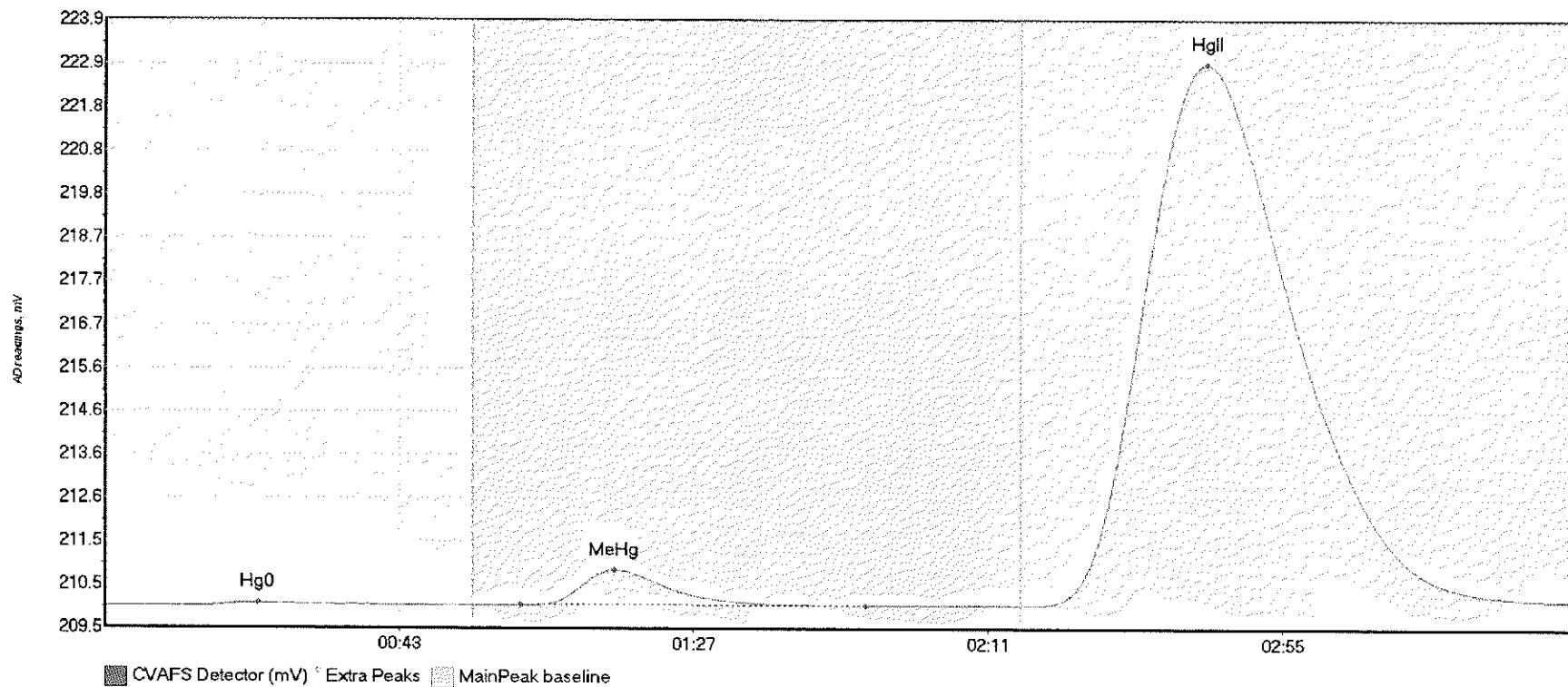
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-12RE2 H	10.474	15.4	54.7	209.99	210.01	21.8	0.061	OK	209.9946	0.00	0.09	
1708151-12RE2 M	58.244	63.4	105.6	210.02	210.01	76.4	0.386	OK	209.9946	0.00	0.09	
1708151-12RE2 H	1838.046	138.9	219.8	210.01	210.08	165.0	7.215	CT	209.9946	0.00	0.09	

#34: 1708151-13RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-13RE2 H	5.619	5.9	34.7	209.98	210.01	24.2	0.061	OK	209.9816	0.00	0.04	
1708151-13RE2 M	89.639	63.7	103.9	210.01	210.02	76.1	0.610	OK	209.9816	0.00	0.04	
1708151-13RE2 H	849.396	138.0	219.8	210.01	210.02	164.6	3.332	CT	209.9816	0.00	0.04	

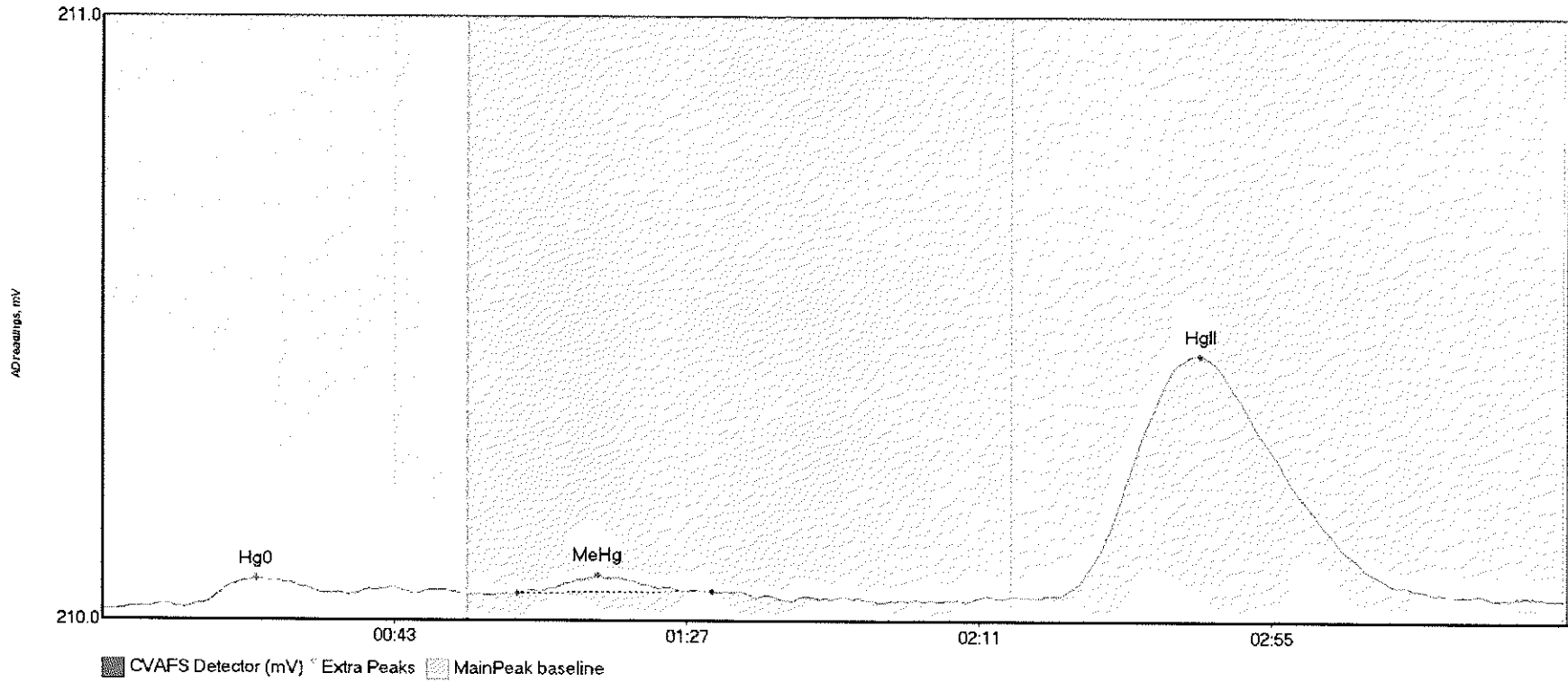
#35: 1708151-14RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-14RE2 H	12.919	12.4	55.0	209.99	210.02	22.8	0.085	CT	209.9868	0.00	0.14	
1708151-14RE2 M	123.737	62.2	113.7	210.02	210.02	76.2	0.824	OK	209.9868	0.00	0.14	
1708151-14RE2 H	3267.012	138.7	219.8	210.01	210.12	164.6	12.841	CT	209.9868	0.00	0.14	

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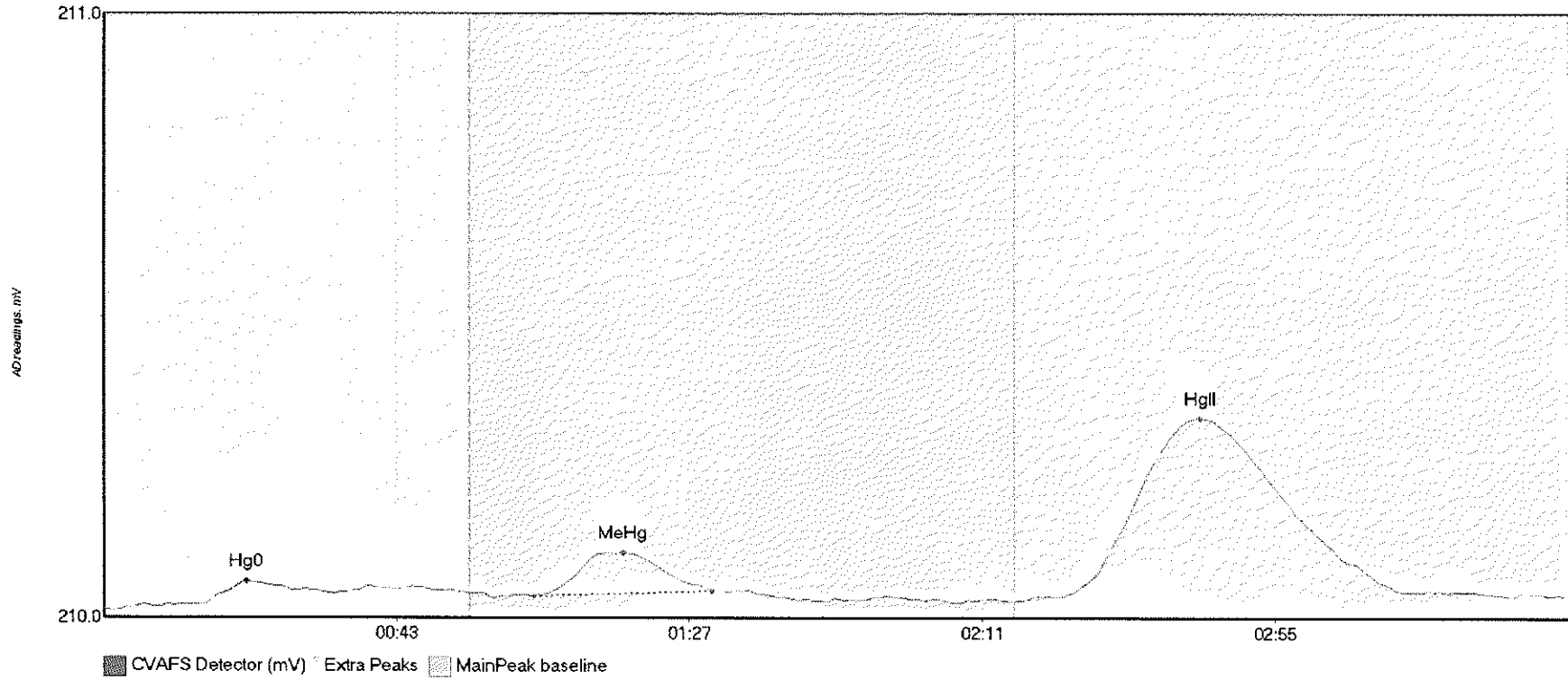
#36: 1708151-15RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-15RE2 H	4.809	12.5	37.1	210.00	210.02	23.2	0.048	OK	209.9943	0.00	0.02	
1708151-15RE2 M	3.425	62.5	91.7	210.02	210.02	74.6	0.030	OK	209.9943	0.00	0.02	
1708151-15RE2 H	97.984	144.0	202.6	210.02	210.02	165.3	0.398	OK	209.9943	0.00	0.02	

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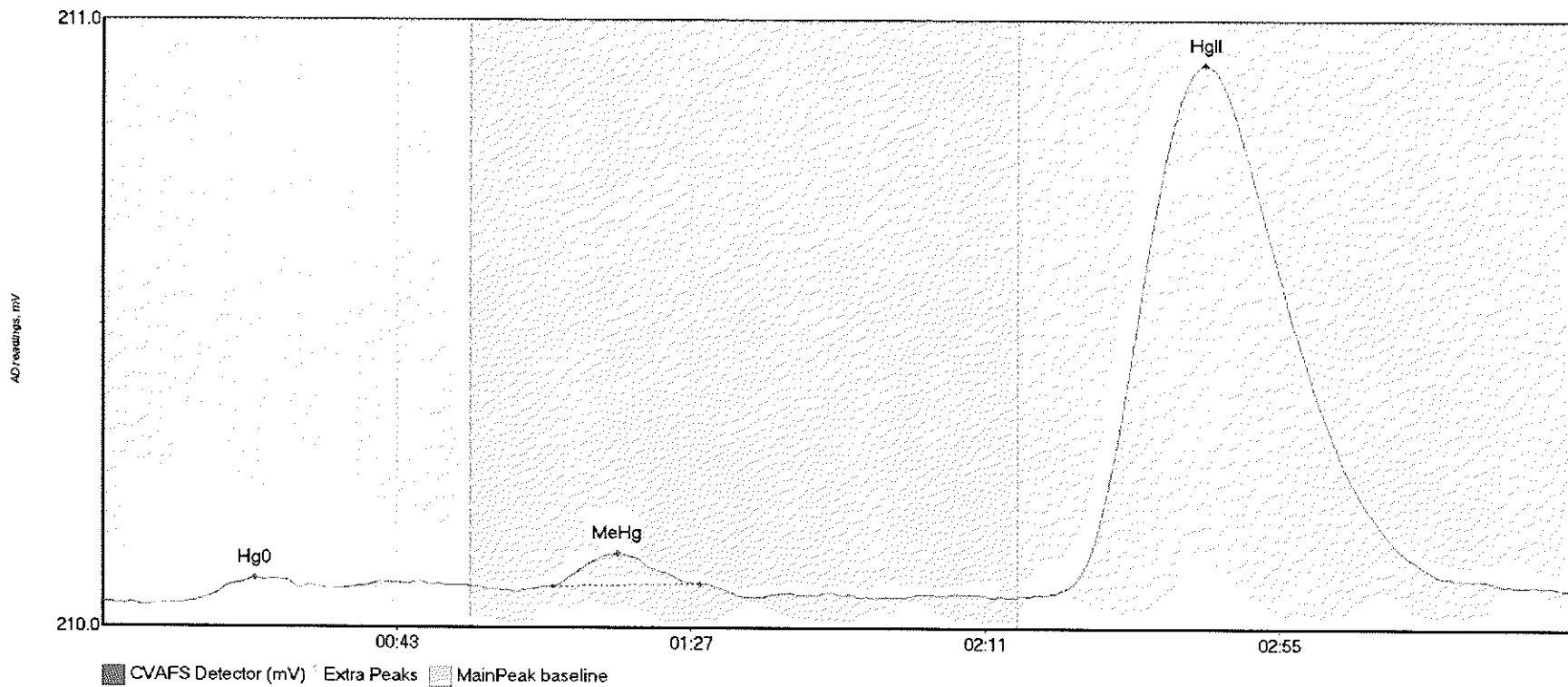
#37: 1708151-16RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-16RE2 H	3.001	8.1	34.5	209.99	210.02	21.5	0.041	OK	209.9895	0.00	0.02	
1708151-16RE2 M	9.648	64.6	91.5	210.01	210.02	78.0	0.072	OK	209.9895	0.00	0.02	
1708151-16RE2 H	76.813	138.0	211.7	210.00	210.01	164.8	0.302	OK	209.9895	0.00	0.02	

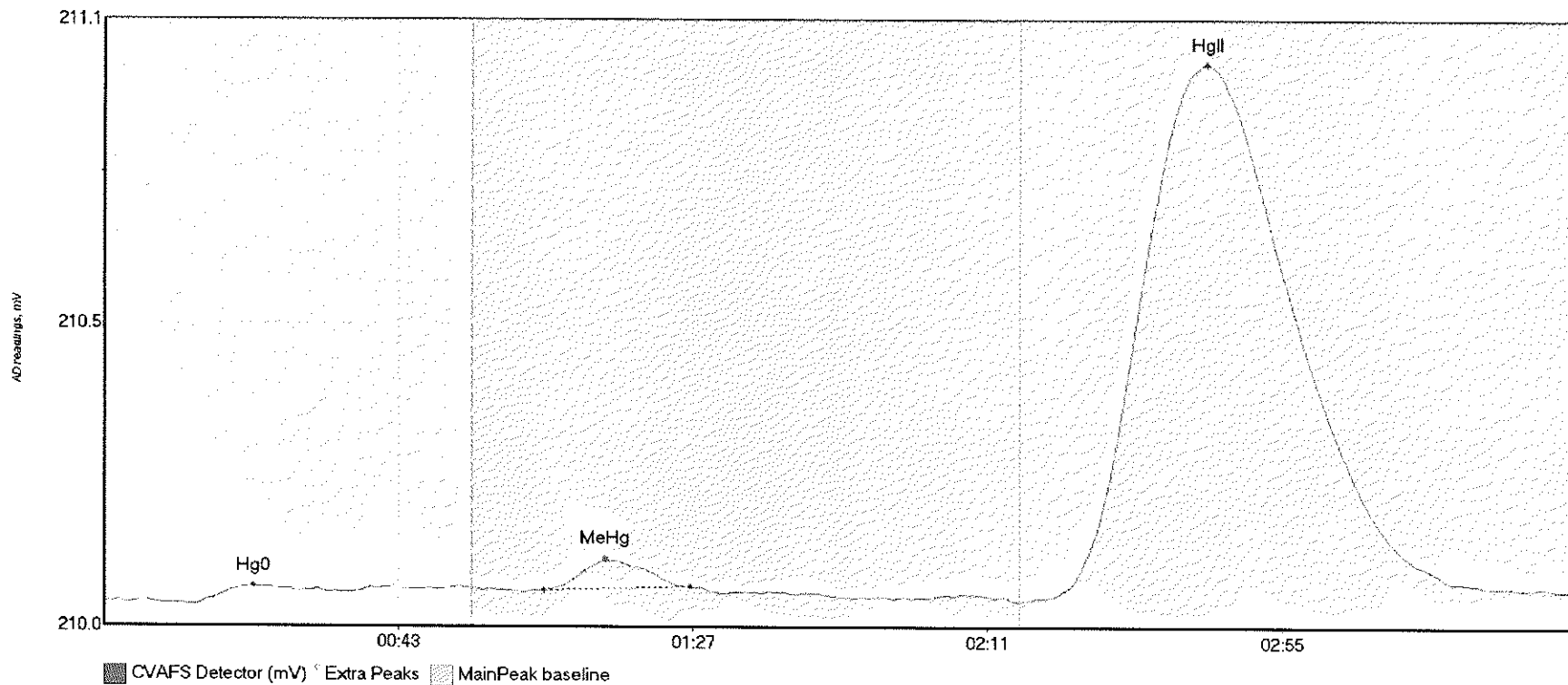


#38: 1708151-17RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-17RE2 H	3.230	13.0	33.9	210.00	210.02	22.7	0.039	OK	210.0011	0.00	0.03	
1708151-17RE2 M	6.239	67.5	89.3	210.03	210.03	77.0	0.056	OK	210.0011	0.00	0.03	
1708151-17RE2 H	227.267	142.1	218.7	210.02	210.03	164.8	0.900	OK	210.0011	0.00	0.03	

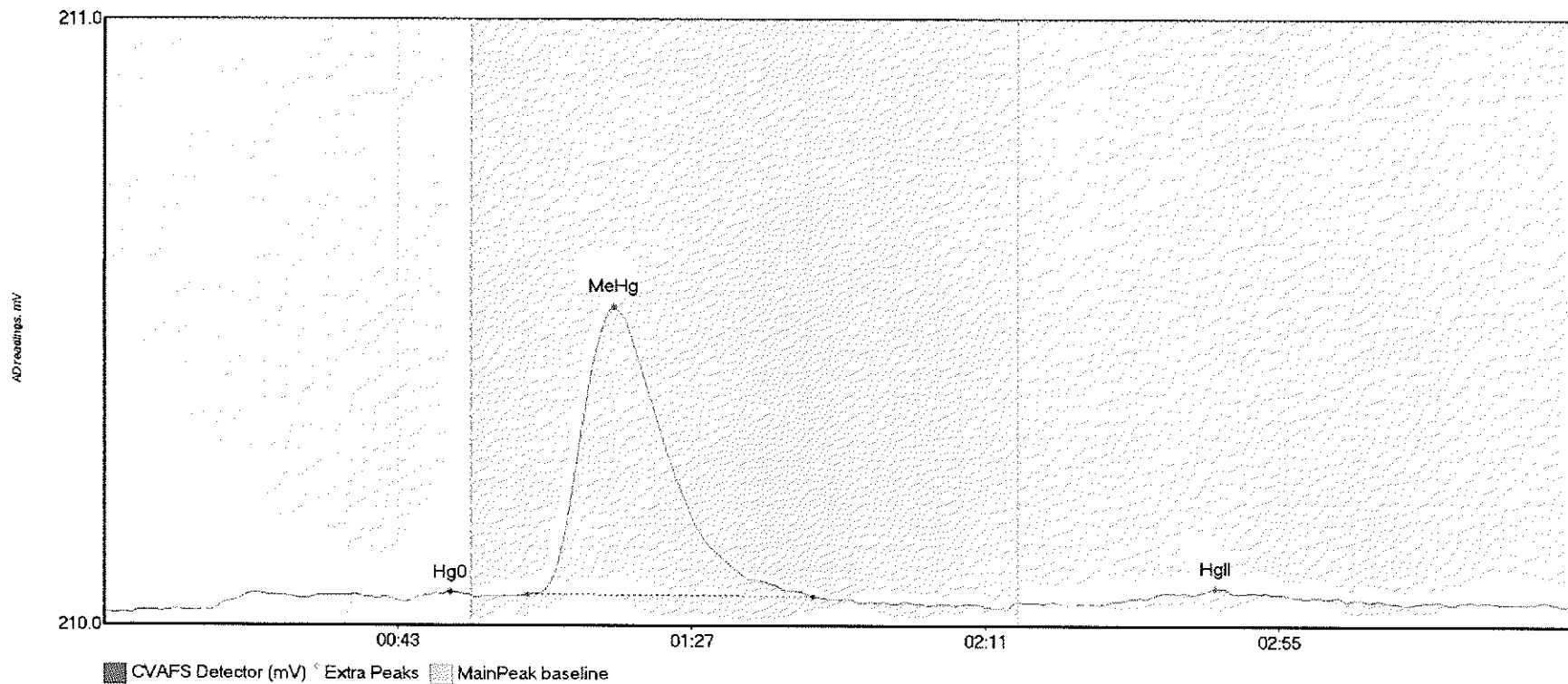
#39: 1708151-18RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-18RE2 H	3.037	13.6	35.7	210.00	210.02	22.5	0.035	OK	210.0038	0.00	0.02	
1708151-18RE2 M	6.007	65.7	87.6	210.02	210.03	74.9	0.059	OK	210.0038	0.00	0.02	
1708151-18RE2 H	265.997	138.0	219.7	210.01	210.02	164.8	1.027	OK	210.0038	0.00	0.02	

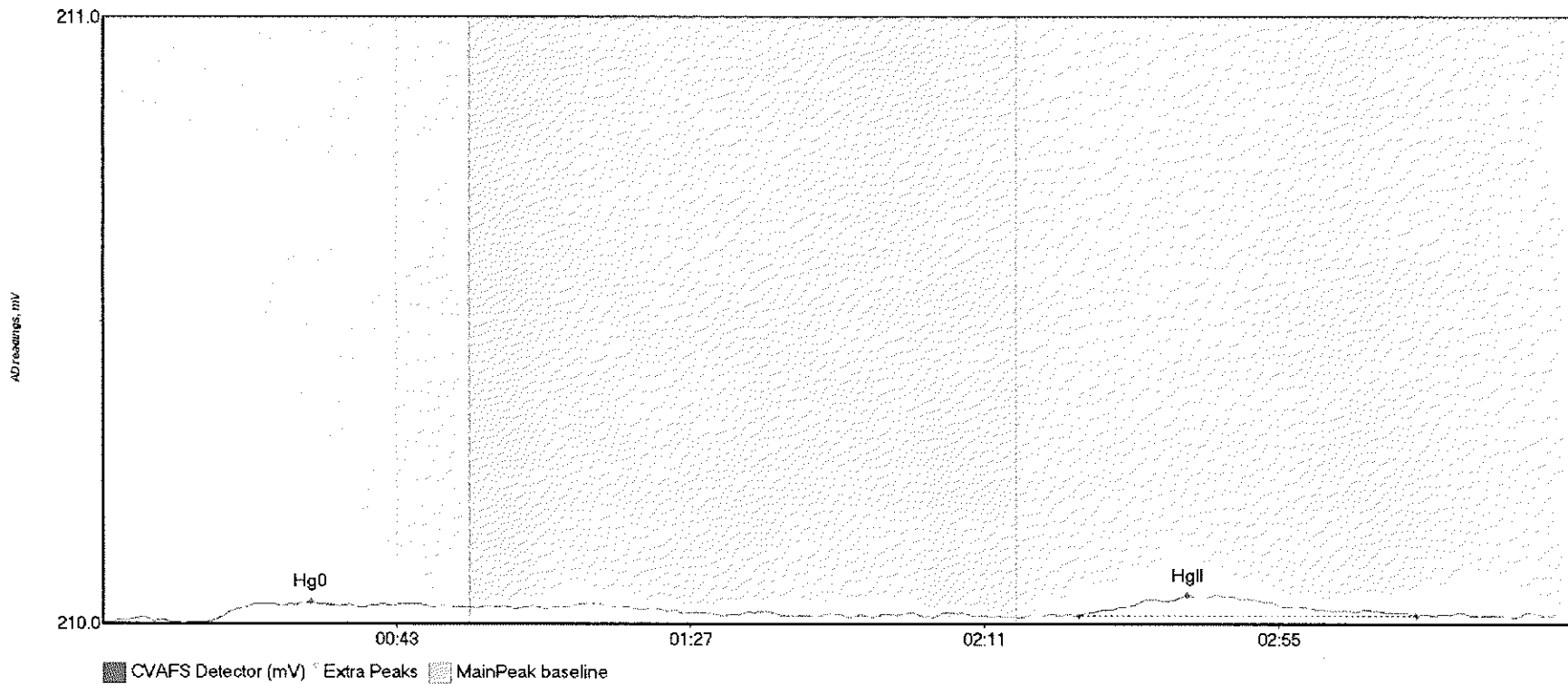
017

#40: SEQ-CCV3



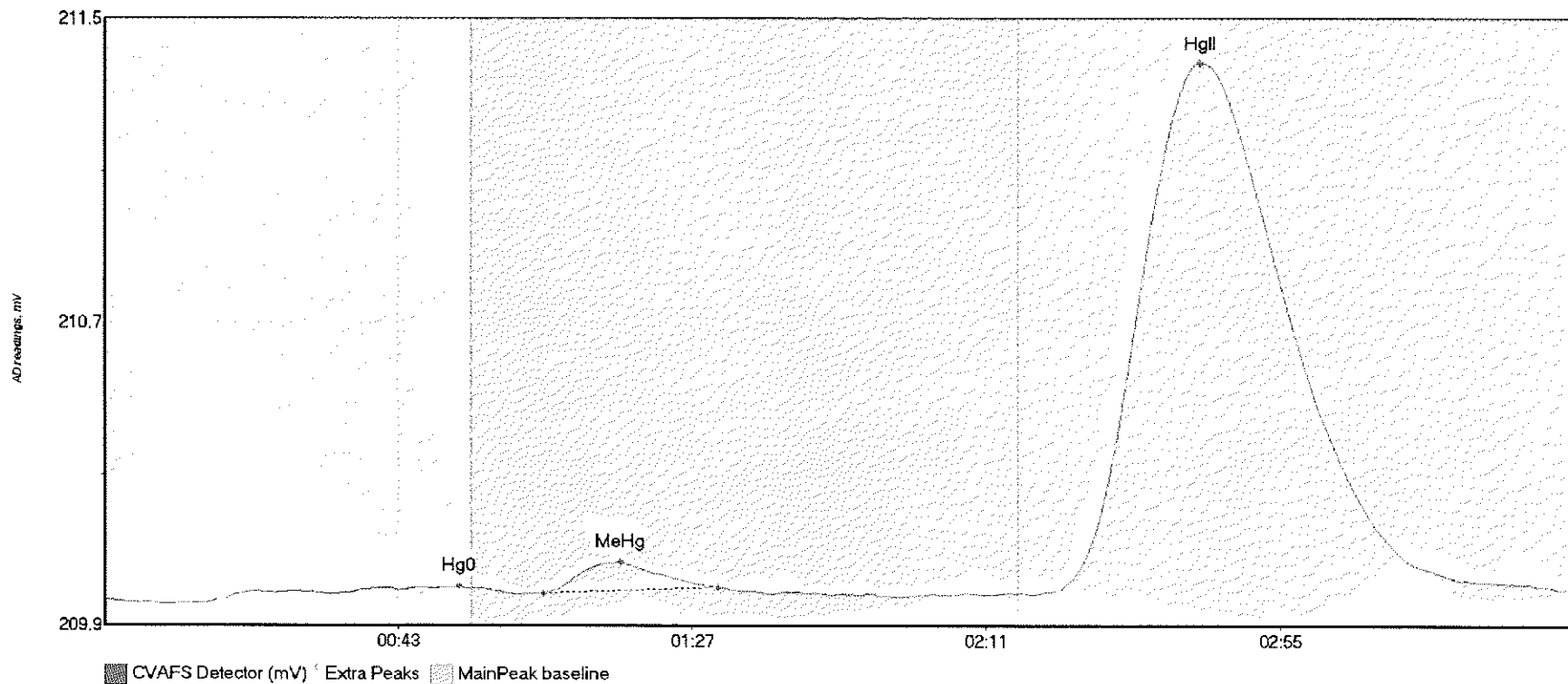
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV3 Hg0	3.979	15.7	55.0	210.00	210.03	51.8	0.031	CT	210.0008	0.00	0.01	
SEQ-CCV3 MeHg	69.204	63.4	106.1	210.03	210.03	76.4	0.474	OK	210.0008	0.00	0.01	
SEQ-CCV3 HgII	3.502	152.0	186.1	210.02	210.02	166.5	0.020	OK	210.0008	0.00	0.01	

#41: SEQ-CCB3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	5.281	15.6	54.4	210.00	210.02	31.2	0.032	OK	209.9984	0.00	0.01	
SEQ-CCB3 HgII	8.500	146.2	196.6	210.01	210.01	162.3	0.034	OK	209.9984	0.00	0.01	017

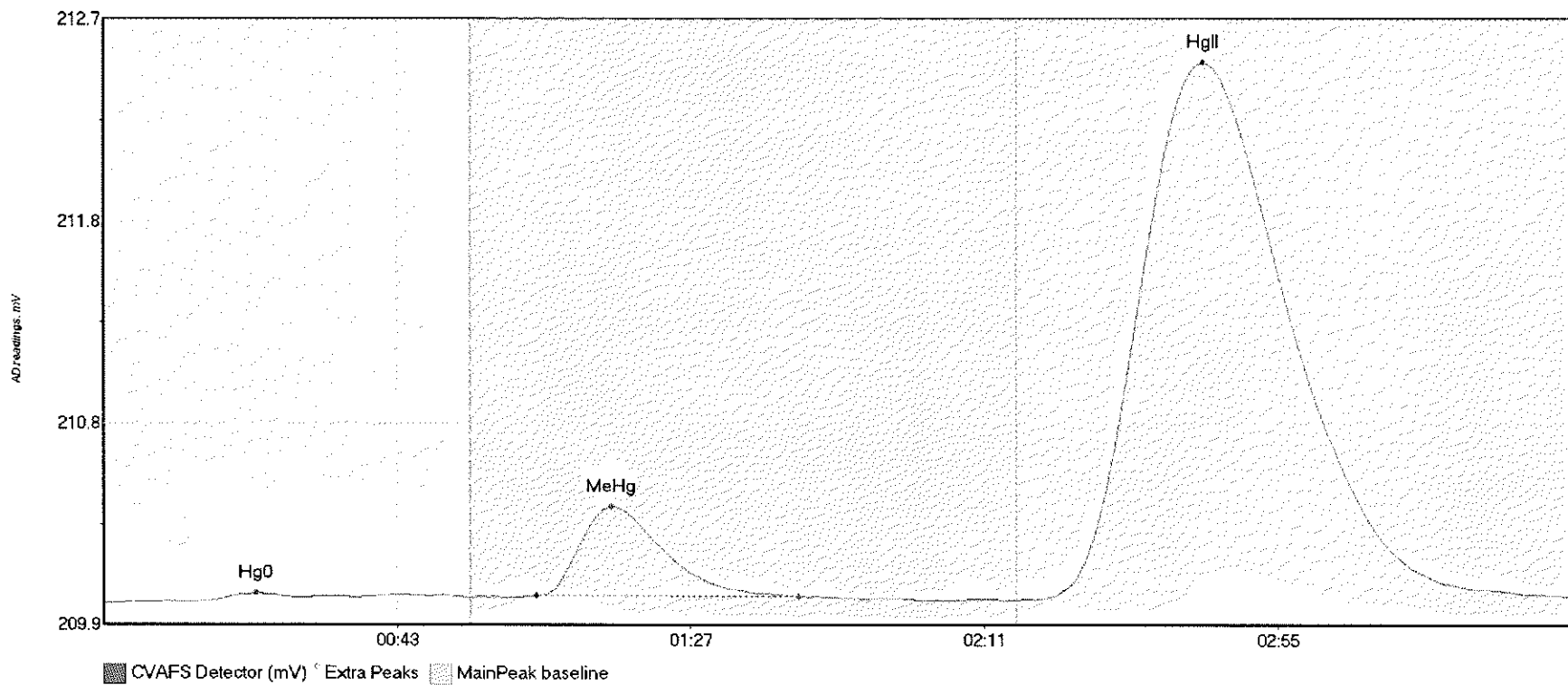
#42: 1708151-19RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-19RE2 H	2.802	17.2	54.2	210.00	210.03	53.1	0.031	OK	209.9999	0.00	0.02	
1708151-19RE2 M	9.534	65.7	91.9	210.02	210.03	77.3	0.077	OK	209.9999	0.00	0.02	
1708151-19RE2 H	334.196	141.4	218.4	210.02	210.02	164.1	1.327	OK	209.9999	0.00	0.02	

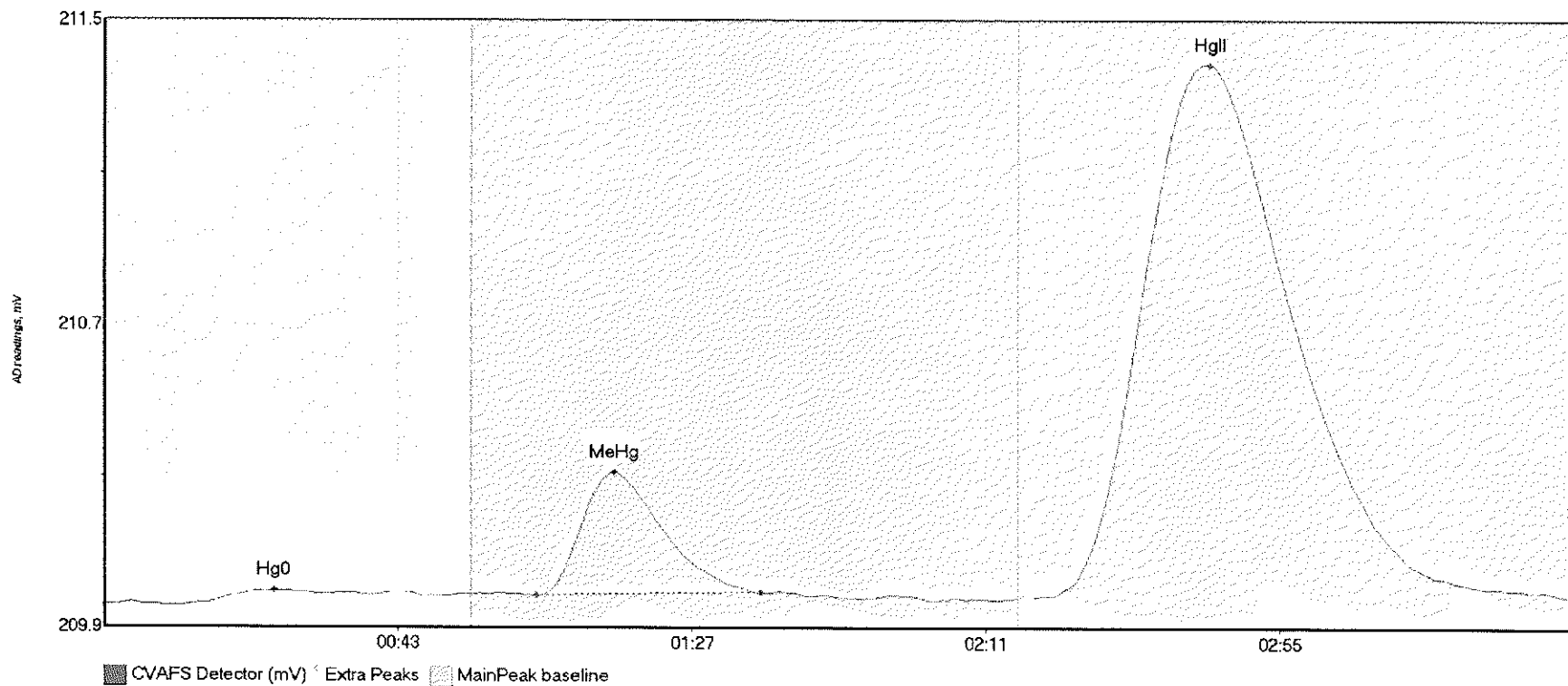
017

#43: 1708151-20RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-20RE2 H	6.778	13.5	54.9	209.99	210.01	22.8	0.040	OK	209.9869	0.00	0.03	
1708151-20RE2 M	61.055	64.8	104.1	210.02	210.02	76.2	0.423	OK	209.9869	0.00	0.03	
1708151-20RE2 H	648.424	139.8	219.3	210.00	210.02	164.7	2.542	OK	209.9869	0.00	0.03	

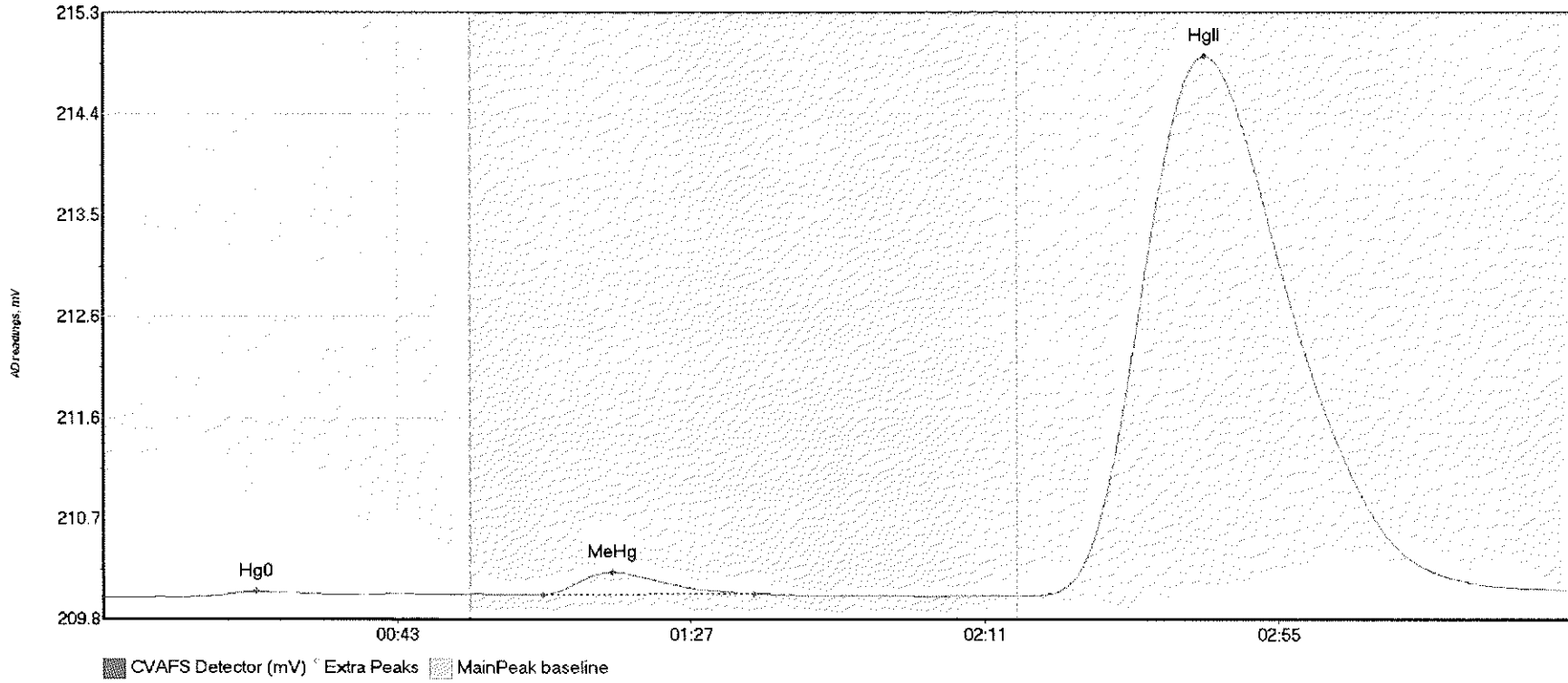
#44: 1708151-21RE2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-21RE2 H	5.106	14.8	50.0	210.00	210.01	25.5	0.032	OK	209.9938	0.00	0.02	
1708151-21RE2 M	43.700	64.7	98.3	210.02	210.02	76.4	0.317	OK	209.9938	0.00	0.02	
1708151-21RE2 H	349.236	141.5	219.0	210.01	210.02	165.4	1.367	OK	209.9938	0.00	0.02	

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#45: 1708151-22RE2

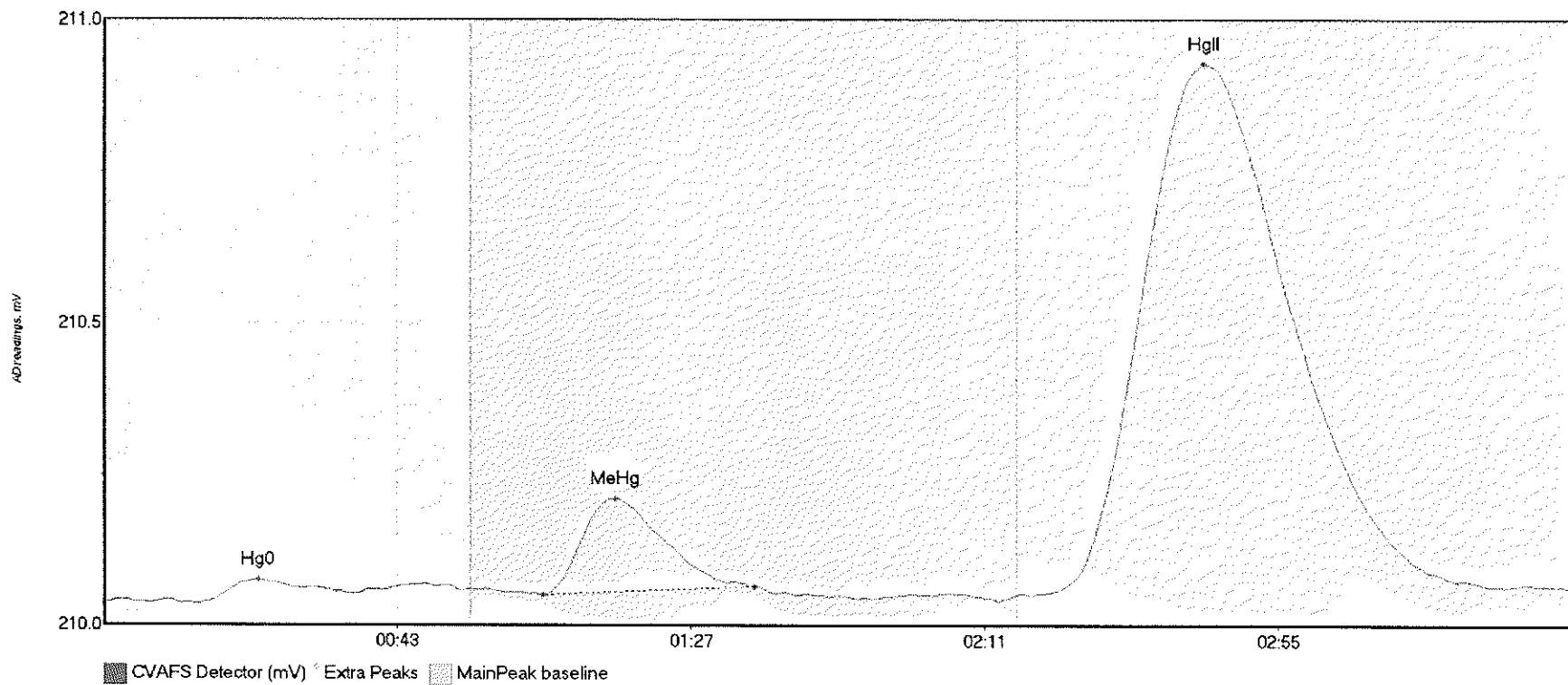


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-22RE2 H	7.028	5.8	51.8	209.99	210.01	23.0	0.054	OK	209.9847	0.00	0.07	
1708151-22RE2 M	29.297	65.9	97.4	210.01	210.02	76.3	0.208	OK	209.9847	0.00	0.07	
1708151-22RE2 H	1260.786	139.0	217.5	210.00	210.06	164.9	4.948	OK	209.9847	0.00	0.07	

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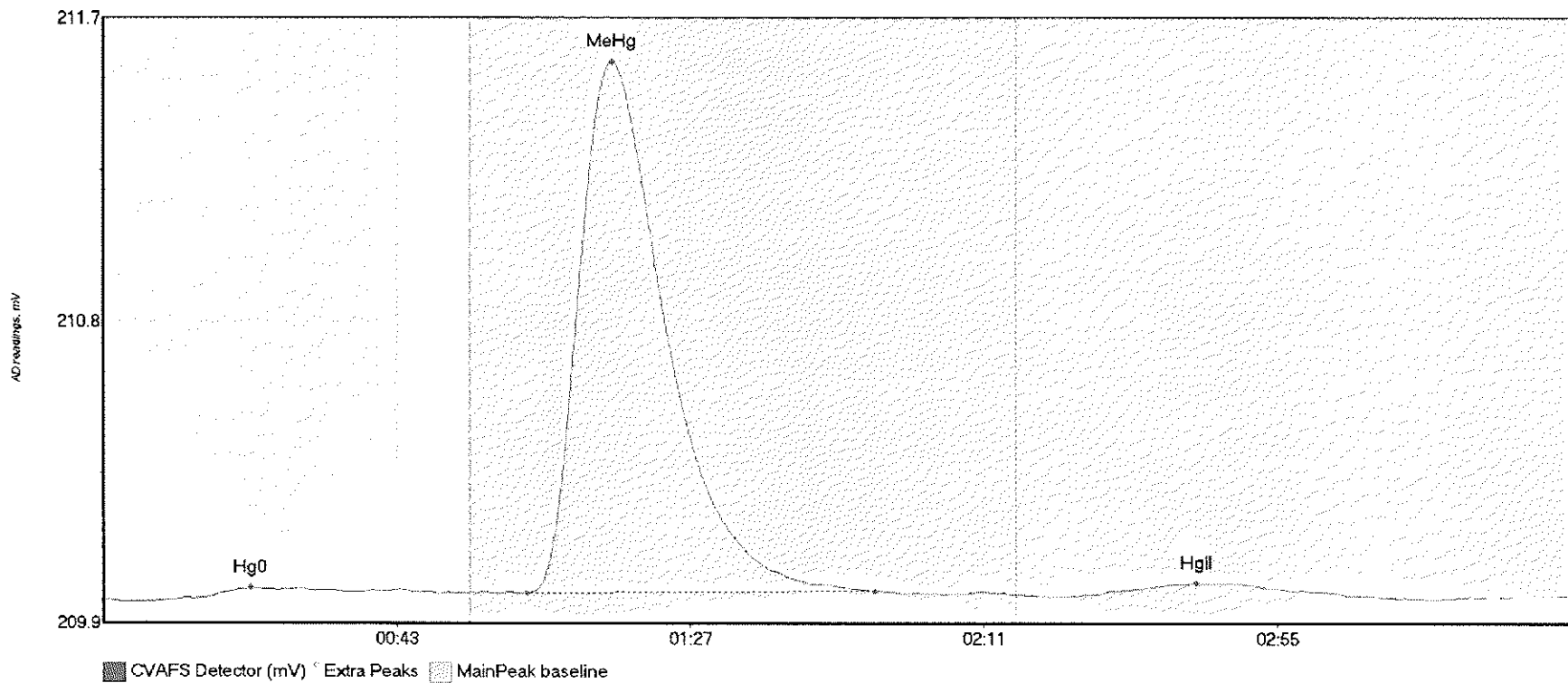


#46: 1708151-23RE2



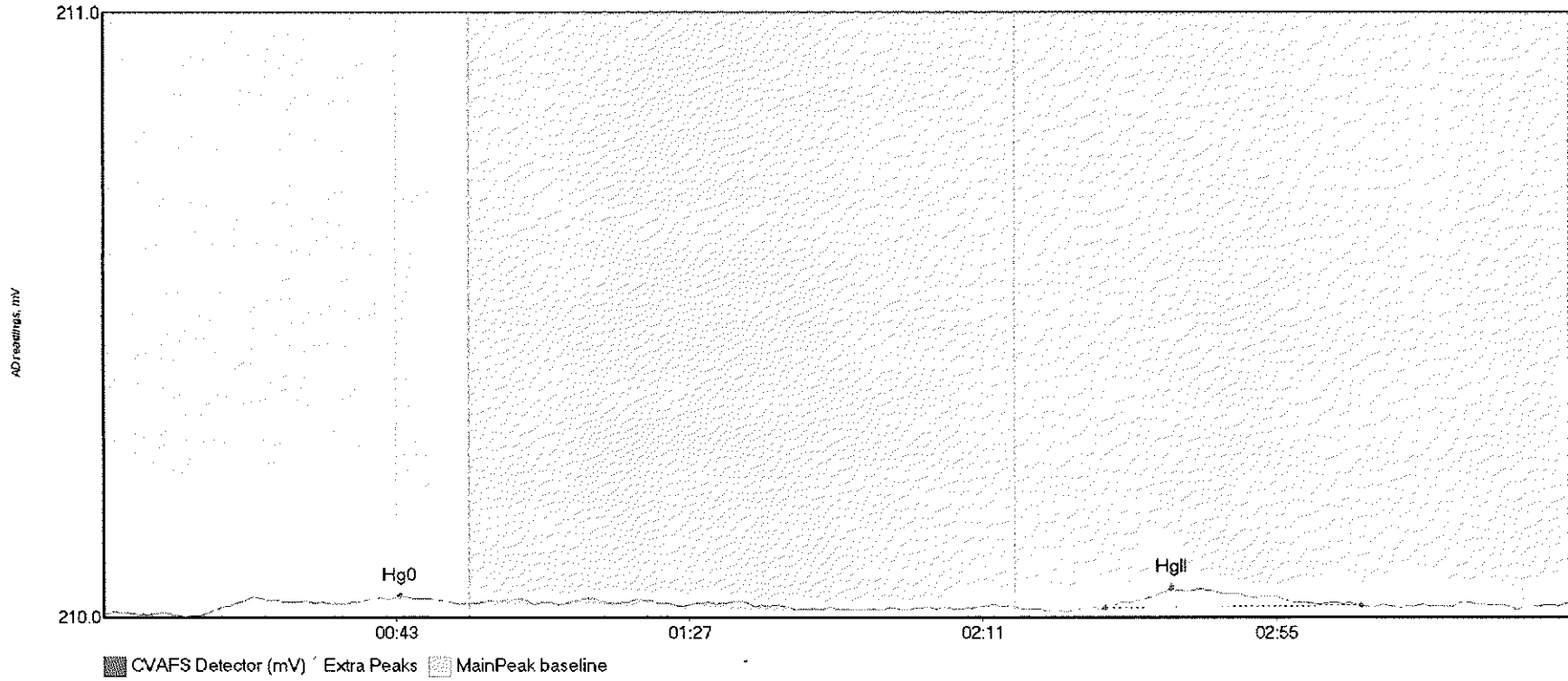
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-23RE2 H	4.070	14.1	37.4	209.99	210.01	23.1	0.042	OK	209.9955	0.00	0.02	
1708151-23RE2 M	23.048	65.9	97.4	210.01	210.02	76.8	0.170	OK	209.9955	0.00	0.02	
1708151-23RE2 H	235.008	141.0	219.8	210.01	210.02	164.7	0.926	CT	209.9955	0.00	0.02	

#47: SEQ-CCV4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	5.321	14.2	50.5	210.00	210.01	22.2	0.030	OK	209.9945	0.00	0.01	
SEQ-CCV4 MeHg	236.717	63.6	115.8	210.01	210.02	76.3	1.567	OK	209.9945	0.00	0.01	
SEQ-CCV4 HgII	6.637	149.0	184.6	210.01	210.01	163.9	0.035	OK	209.9945	0.00	0.01	

#48: SEQ-CCB4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	5.170	14.3	53.7	209.98	210.00	44.6	0.032	OK	209.9820	0.00	0.02	
SEQ-CCB4 HgII	5.903	150.4	188.7	209.99	210.00	160.3	0.033	OK	209.9820	0.00	0.02	017



Frontier Global Sciences

# MHg27001-170901-1

## Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: September 01, 2017

Instrument #: Hg2700-1

LIMS Sequence #: 7102003

Analyst: DM2

Units: ng/L

### Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	24.17 units	483.32	24.17 units	483.32	91.0 %Rec
SEQ-CAL2	1	0.20 ng/L	102.60 units	512.99	102.60 units	512.99	96.6 %Rec
SEQ-CAL3	1	1.00 ng/L	571.33 units	571.33	571.33 units	571.33	107.5 %Rec
SEQ-CAL4	1	2.00 ng/L	1033.19 units	516.59	1033.19 units	516.59	97.2 %Rec
SEQ-CAL5	1	4.00 ng/L	2288.59 units	572.15	2288.59 units	572.15	107.7 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

**Corr. Mean RF**    **Corr. St Dev RF**    **Corr. RSD CF**    **Uncorr. Mean RF**  
 531.28            +/- 39.13            7.4% RSD            531.28

### Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.00 units		0.00 ng/L	#VALUE!

### Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.617 ng/L	±0.702
BLK	2	3	0.000 ng/L	±0.000
BLK	3	3	0.000 ng/L	±0.000
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	

QUALITY ASSURANCE  
PEER-REVIEWED

INITIALS:           a 9/5/17

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber												
Hg2700-1	DM2	CAL	SEQ-1BL1	1	9/1/17 8:54	25607-1.RAW	8:54:09	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL1	1	9/1/17 9:04	25608-1.RAW	9:04:40	24.17			24.2	0.045	0.045	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL2	1	9/1/17 9:15	25609-1.RAW	9:15:11	102.60			102.6	0.193	0.193	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL3	1	9/1/17 9:25	25610-1.RAW	9:25:41	571.33			571.3	1.075	1.075	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL4	1	9/1/17 9:36	25611-1.RAW	9:36:12	1033.19			1033.2	1.945	1.945	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL5	1	9/1/17 9:46	25612-1.RAW	9:46:43	2288.59			2288.6	4.308	4.308	ng/L	
Hg2700-1	DM2	CAL	SEQ-1CV1	1	9/1/17 9:57	25613-1.RAW	9:57:13	263.74			263.7	0.496	0.496	ng/L	
Hg2700-1	DM2	CAL	SEQ-1CB1	1	9/1/17 10:07	25614-1.RAW	10:07:44	3.00			3.0	0.006	0.006	ng/L	
Hg2700-1	DM2	BLK	F708549-BLK7	500	9/1/17 10:18	25615-1.RAW	10:18:15	1.47	1		1.5	0.003	1.381	ng/L	
Hg2700-1	DM2	BLK	F708549-BLK8	500	9/1/17 10:28	25616-1.RAW	10:28:45	0.00	1		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708549-BLK9	500	9/1/17 10:39	25617-1.RAW	10:39:16	0.50	1		0.5	0.001	0.470	ng/L	
Hg2700-1	DM2	SAM	1708151-09RE3	500	9/1/17 10:49	25618-1.RAW	10:49:47	109.21	1		109.2	0.204	102.162	ng/L	
Hg2700-1	DM2	SAM	1708151-10RE3	500	9/1/17 11:00	25619-1.RAW	11:00:18	54.20	1		54.2	0.101	50.389	ng/L	
Hg2700-1	DM2	SAM	1708151-11RE3	500	9/1/17 11:10	25620-1.RAW	11:10:48	53.82	1		53.8	0.100	50.036	ng/L	
Hg2700-1	DM2	SAM	1708151-12RE3	500	9/1/17 11:21	25621-1.RAW	11:21:19	52.31	1		52.3	0.097	48.614	ng/L	
Hg2700-1	DM2	SAM	1708151-13RE3	500	9/1/17 11:31	25622-1.RAW	11:31:50	82.37	1		82.4	0.154	76.908	ng/L	
Hg2700-1	DM2	SAM	1708151-14RE3	500	9/1/17 11:42	25623-1.RAW	11:42:21	121.54	1		121.5	0.228	113.764	ng/L	
Hg2700-1	DM2	SAM	1708151-15RE3	500	9/1/17 11:52	25624-1.RAW	11:52:51	3.26	1		3.3	0.005	2.451	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV1	1	9/1/17 12:03	25625-1.RAW	12:03:22	251.44			251.4	0.473	0.473	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB1	1	9/1/17 12:13	25626-1.RAW	12:13:53	0.62			0.6	0.001	0.001	ng/L	
Hg2700-1	DM2	SAM	1708151-16RE3	500	9/1/17 12:24	25627-1.RAW	12:24:24	9.98	1		10.0	0.018	8.774	ng/L	
Hg2700-1	DM2	SAM	1708151-17RE3	500	9/1/17 12:34	25628-1.RAW	12:34:54	7.89	1		7.9	0.014	6.811	ng/L	
Hg2700-1	DM2	SAM	1708151-18RE3	500	9/1/17 12:45	25629-1.RAW	12:45:25	8.09	1		8.1	0.014	6.998	ng/L	
Hg2700-1	DM2	SAM	1708151-19RE3	500	9/1/17 12:55	25630-1.RAW	12:55:56	9.29	1		9.3	0.016	8.130	ng/L	
Hg2700-1	DM2	SAM	1708151-20RE3	500	9/1/17 13:06	25631-1.RAW	13:06:27	61.23	1		61.2	0.114	57.005	ng/L	
Hg2700-1	DM2	SAM	1708151-21RE3	500	9/1/17 13:16	25632-1.RAW	13:16:57	45.74	1		45.7	0.085	42.433	ng/L	
Hg2700-1	DM2	SAM	1708151-22RE3	500	9/1/17 13:27	25633-1.RAW	13:27:28	32.33	1		32.3	0.060	29.807	ng/L	
Hg2700-1	DM2	SAM	1708151-23RE3	500	9/1/17 13:37	25634-1.RAW	13:37:59	20.17	1		20.2	0.037	18.363	ng/L	
Hg2700-1	DM2	BLK	F708539-BLK1	500	9/1/17 13:48	25635-1.RAW	13:48:30	0.00	2		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708539-BLK2	500	9/1/17 13:59	25636-1.RAW	13:59:00	0.00	2		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV2	1	9/1/17 14:09	25637-1.RAW	14:09:31	182.43			182.4	0.343	0.343	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB2	1	9/1/17 14:20	25638-1.RAW	14:20:02	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV3	1	9/1/17 14:30	25639-1.RAW	14:30:32	245.03			245.0	0.461	0.461	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV4	1	9/1/17 14:41	25640-1.RAW	14:41:03	242.07			242.1	0.456	0.456	ng/L	
Hg2700-1	DM2	BLK	F708539-BLK3	500	9/1/17 14:51	25641-1.RAW	14:51:34	0.00	2		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	*F708539-BLK4	500	9/1/17 15:02	25642-1.RAW	15:02:05	0.00	2		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	F708539-BS1	2500	9/1/17 15:12	25643-1.RAW	15:12:35	598.64	2		598.6	1.127	2817.005	ng/L	
Hg2700-1	DM2	SAM	F708539-BSD1	2500	9/1/17 15:23	25644-1.RAW	15:23:06	567.17	2		567.2	1.068	2668.929	ng/L	
Hg2700-1	DM2	SAM	F708539-DUP1	500	9/1/17 15:33	25645-1.RAW	15:33:36	14.10	2		14.1	0.027	13.273	ng/L	
Hg2700-1	DM2	SAM	F708539-MS1	500	9/1/17 15:44	25646-1.RAW	15:44:07	555.98	2		556.0	1.047	523.254	ng/L	
Hg2700-1	DM2	SAM	F708539-MSD1	500	9/1/17 15:54	25647-1.RAW	15:54:37	555.81	2		555.8	1.046	523.088	ng/L	
Hg2700-1	DM2	SAM	F708539-MS2	500	9/1/17 16:05	25648-1.RAW	16:05:08	625.60	2		625.6	1.178	588.772	ng/L	
Hg2700-1	DM2	SAM	F708539-MSD2	500	9/1/17 16:15	25649-1.RAW	16:15:39	702.68	2		702.7	1.323	661.316	ng/L	
Hg2700-1	DM2	SAM	1708441-01	500	9/1/17 16:26	25650-1.RAW	16:26:09	57.78	2		57.8	0.109	54.380	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV5	1	9/1/17 16:36	25651-1.RAW	16:36:40	206.76			206.8	0.389	0.389	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB3	1	9/1/17 16:47	25652-1.RAW	16:47:11	0.00			0.0	0.000	0.000	ng/L	

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	DM2	SAM	1708557-11	500	9/1/17 16:57	25653-1.RAW	16:57:41	13.31	2		13.3	0.025	12.524	ng/L	
Hg2700-1	DM2	SAM	1708557-18	500	9/1/17 17:08	25654-1.RAW	17:08:12	54.68	2		54.7	0.103	51.464	ng/L	
Hg2700-1	DM2	SAM	1708557-19	500	9/1/17 17:18	25655-1.RAW	17:18:43	8.66	2		8.7	0.016	8.151	ng/L	
Hg2700-1	DM2	SAM	1708557-20	500	9/1/17 17:29	25656-1.RAW	17:29:13	2.79	2		2.8	0.005	2.629	ng/L	
Hg2700-1	DM2	SAM	1708557-21	500	9/1/17 17:39	25657-1.RAW	17:39:44	6.20	2		6.2	0.012	5.831	ng/L	
Hg2700-1	DM2	SAM	1708557-22	500	9/1/17 17:50	25658-1.RAW	17:50:15	1.25	2		1.2	0.002	1.174	ng/L	
Hg2700-1	DM2	SAM	1708557-23	500	9/1/17 18:00	25659-1.RAW	18:00:45	89.91	2		89.9	0.169	84.621	ng/L	
Hg2700-1	DM2	SAM	1708557-24	500	9/1/17 18:11	25660-1.RAW	18:11:16	72.08	2		72.1	0.136	67.832	ng/L	
Hg2700-1	DM2	SAM	1708557-25	500	9/1/17 18:21	25661-1.RAW	18:21:47	78.54	2		78.5	0.148	73.917	ng/L	
Hg2700-1	DM2	SAM	1708557-26	500	9/1/17 18:32	25662-1.RAW	18:32:17	49.72	2		49.7	0.094	46.790	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV6	1	9/1/17 18:42	25663-1.RAW	18:42:48	254.92			254.9	0.480	0.480	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB4	1	9/1/17 18:53	25664-1.RAW	18:53:19	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708557-27	500	9/1/17 19:03	25665-1.RAW	19:03:50	44.04	2		44.0	0.083	41.451	ng/L	
Hg2700-1	DM2	SAM	1708557-28	500	9/1/17 19:14	25666-1.RAW	19:14:20	43.00	2		43.0	0.081	40.471	ng/L	
Hg2700-1	DM2	SAM	1708557-29	500	9/1/17 19:24	25667-1.RAW	19:24:51	1.02	2		1.0	0.002	0.957	ng/L	
Hg2700-1	DM2	SAM	1708557-30	500	9/1/17 19:35	25668-1.RAW	19:35:22	3.80	2		3.8	0.007	3.575	ng/L	
Hg2700-1	DM2	SAM	1708557-31	500	9/1/17 19:45	25669-1.RAW	19:45:52	0.92	2		0.9	0.002	0.862	ng/L	
Hg2700-1	DM2	SAM	1708557-32	500	9/1/17 19:56	25670-1.RAW	19:56:23	0.00	2		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708557-33	500	9/1/17 20:06	25671-1.RAW	20:06:54	56.40	2		56.4	0.106	53.076	ng/L	
Hg2700-1	DM2	SAM	1708557-34	500	9/1/17 20:17	25672-1.RAW	20:17:25	21.49	2		21.5	0.040	20.221	ng/L	
Hg2700-1	DM2	BLK	F708535-BLK1	500	9/1/17 20:27	25673-1.RAW	20:27:56	0.00	3		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708535-BLK2	500	9/1/17 20:38	25674-1.RAW	20:38:26	0.00	3		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV7	1	9/1/17 20:48	25675-1.RAW	20:48:57	256.89			256.9	0.484	0.484	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB5	1	9/1/17 20:59	25676-1.RAW	20:59:28	0.00			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	BLK	F708535-BLK3	500	9/1/17 21:09	25677-1.RAW	21:09:59	0.00	3		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	F708535-BS1	1000	9/1/17 21:20	25678-1.RAW	21:20:29	934.58	3		934.6	1.759	1759.129	ng/L	
Hg2700-1	DM2	SAM	F708535-BSD1	1000	9/1/17 21:31	25679-1.RAW	21:31:00	968.23	3		968.2	1.822	1822.462	ng/L	
Hg2700-1	DM2	SAM	F708535-DUP1	500	9/1/17 21:41	25680-1.RAW	21:41:30	337.67	3		337.7	0.636	317.796	ng/L	
Hg2700-1	DM2	SAM	F708535-MS1	500	9/1/17 21:52	25681-1.RAW	21:52:01	873.15	3		873.1	1.643	821.748	ng/L	
Hg2700-1	DM2	SAM	F708535-MSD1	500	9/1/17 22:02	25682-1.RAW	22:02:32	922.67	3		922.7	1.737	868.353	ng/L	
Hg2700-1	DM2	SAM	F708535-MS2	500	9/1/17 22:13	25683-1.RAW	22:13:03	650.93	3		650.9	1.225	612.609	ng/L	
Hg2700-1	DM2	SAM	F708535-MSD2	500	9/1/17 22:23	25684-1.RAW	22:23:33	842.42	3		842.4	1.586	792.825	ng/L	
Hg2700-1	DM2	SAM	1708524-11	500	9/1/17 22:34	25685-1.RAW	22:34:04	308.94	3		308.9	0.582	290.754	ng/L	
Hg2700-1	DM2	SAM	1708524-12	500	9/1/17 22:44	25686-1.RAW	22:44:34	96.26	3		96.3	0.181	90.594	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV8	1	9/1/17 22:55	25687-1.RAW	22:55:05	225.73			225.7	0.425	0.425	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB6	1	9/1/17 23:05	25688-1.RAW	23:05:36	1.53			1.5	0.003	0.003	ng/L	
Hg2700-1	DM2	SAM	1708524-13	500	9/1/17 23:16	25689-1.RAW	23:16:07	82.59	3		82.6	0.155	77.732	ng/L	
Hg2700-1	DM2	SAM	1708524-14	500	9/1/17 23:26	25690-1.RAW	23:26:37	28.31	3		28.3	0.053	26.646	ng/L	
Hg2700-1	DM2	SAM	1708557-01	500	9/1/17 23:37	25691-1.RAW	23:37:08	53.03	3		53.0	0.100	49.912	ng/L	
Hg2700-1	DM2	SAM	1708557-02	500	9/1/17 23:47	25692-1.RAW	23:47:39	62.92	3		62.9	0.118	59.211	ng/L	
Hg2700-1	DM2	SAM	1708557-03	500	9/1/17 23:58	25693-1.RAW	23:58:09	120.64	3		120.6	0.227	113.539	ng/L	
Hg2700-1	DM2	SAM	1708557-04	500	9/1/17 0:08	25694-1.RAW	0:08:40	87.33	3		87.3	0.164	82.194	ng/L	
Hg2700-1	DM2	SAM	1708557-05	500	9/1/17 0:19	25695-1.RAW	0:19:11	32.02	3		32.0	0.060	30.133	ng/L	
Hg2700-1	DM2	SAM	1708557-06	500	9/1/17 0:29	25696-1.RAW	0:29:41	10.88	3		10.9	0.020	10.236	ng/L	
Hg2700-1	DM2	SAM	1708557-07	500	9/1/17 0:40	25697-1.RAW	0:40:13	3.98	3		4.0	0.007	3.748	ng/L	
Hg2700-1	DM2	SAM	1708557-08	500	9/1/17 0:50	25698-1.RAW	0:50:43	5.04	3		5.0	0.009	4.742	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV9	1	9/1/17 1:01	25699-1.RAW	1:01:14	206.21			206.2	0.388	0.388	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB7	1	9/1/17 1:11	25700-1.RAW	1:11:45	1.11			1.1	0.002	0.002	ng/L	
Hg2700-1	DM2	SAM	1708557-09	500	9/1/17 1:22	25701-1.RAW	1:22:15	4.71	3		4.7	0.009	4.434	ng/L	
Hg2700-1	DM2	SAM	1708557-10	500	9/1/17 1:32	25702-1.RAW	1:32:46	0.00	3		0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	SAM	1708557-12	500	9/1/17 1:43	25703-1.RAW	1:43:17	14.87	3		14.9	0.028	13.992	ng/L	
Hg2700-1	DM2	SAM	1708557-13	500	9/1/17 1:53	25704-1.RAW	1:53:48	14.39	3		14.4	0.027	13.544	ng/L	
Hg2700-1	DM2	SAM	1708557-14	500	9/1/17 2:04	25705-1.RAW	2:04:18	7.55	3		7.6	0.014	7.109	ng/L	
Hg2700-1	DM2	SAM	1708557-15	500	9/1/17 2:14	25706-1.RAW	2:14:49	59.03	3		59.0	0.111	55.560	ng/L	
Hg2700-1	DM2	SAM	1708557-16	500	9/1/17 2:25	25707-1.RAW	2:25:20	46.61	3		46.6	0.088	43.866	ng/L	
Hg2700-1	DM2	SAM	1708557-17	500	9/1/17 2:35	25708-1.RAW	2:35:51	47.52	3		47.5	0.089	44.727	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCVA	1	9/1/17 2:46	25709-1.RAW	2:46:21	224.69			224.7	0.423	0.423	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB8	1	9/1/17 2:56	25710-1.RAW	2:56:52	0.00			0.0	0.000	0.000	ng/L	

MethylMercury EPA1630  
 Operat: DM  
 BlankSub: Blank  
 Calib Eqn: Calibank error: Zero Per  
 Run Date: 9/1/2017  
 Blank SD: 0:00:00  
 Worket: MHq270  
 CalibFactor: R:  
 Methoc: 2010-01 R:  
 Descrip: MHq27001-170901-1  
 CF SD:  
 CF RSD%:

SampleID	Locator	Rinse	Dilute	Blank	ConcHq (p)	ConcMethq (f)	ConcHg2 (p)	ConcPrHgq (f)	Rec%	QA	RawData	RunEnd	PeakHq0 (Raw)	PeakMethq (f)	PeakHg2 (Raw)	PeakPrHgq (Raw)	Control (eff)	Flags	RunCount	
Clean																				
WS	A1											25605-1.RAW	8:33:08	0.00	0.36	2.79	0.00	cleandry	CT	1
SEQ-JBL1	A2			1								25606-1.RAW	8:43:39	3.97	0.00	2.06	0.00	psample10	OK	1
SEQ-CAL1	A3			1								25607-1.RAW	8:54:09	4.42	0.00	2.56	0.00	psample10	OK	1
SEQ-CAL2	A4			1								25608-1.RAW	9:04:40	6.18	24.17	0.00	0.00	psample10	OK	1
SEQ-CAL3	A5			1								25609-1.RAW	9:15:11	7.08	102.60	2.60	0.00	psample10	OK	1
SEQ-CAL4	A6			1								25610-1.RAW	9:25:41	5.30	571.33	22.40	0.00	psample10	OK	1
SEQ-CAL5	A7			1								25611-1.RAW	9:36:12	7.30	1033.19	39.00	0.00	psample10	OK	1
SEQ-ICV1	A8			1								25612-1.RAW	9:46:43	8.01	2288.59	99.95	0.00	psample10	OK	1
SEQ-ICB1	A9			1								25613-1.RAW	9:57:13	4.56	263.74	3.29	0.00	psample10	OK	1
F708549-BLK7	A10			500								25614-1.RAW	10:07:44	3.41	3.00	2.22	0.00	psample10	OK	1
F708549-BLK8	A11			500								25615-1.RAW	10:18:15	2.91	1.47	11.40	0.00	psample10	OK	1
F708549-BLK9	A12			500								25616-1.RAW	10:28:45	4.16	0.00	6.34	0.00	psample10	OK	1
1708151-09RE3	A13			500								25617-1.RAW	10:39:16	4.22	0.50	6.85	0.00	psample10	CT	1
1708151-10RE3	A14			500								25618-1.RAW	10:49:47	8.09	109.21	1384.99	0.00	psample10	CT	1
1708151-11RE3	A15			500								25619-1.RAW	11:00:18	6.32	54.20	1278.47	0.00	psample10	OK	1
1708151-12RE3	A16			500								25620-1.RAW	11:10:48	4.31	53.82	1225.03	0.00	psample10	CT	1
1708151-13RE3	A17			500								25621-1.RAW	11:21:19	7.27	52.31	1835.05	0.00	psample10	CT	1
1708151-14RE3	A18			500								25622-1.RAW	11:31:50	7.44	82.37	809.13	0.00	psample10	OK	1
1708151-15RE3	A19			500								25623-1.RAW	11:42:21	11.15	121.54	2905.37	0.00	psample10	CT	1
SEQ-CCV1	A20			1								25624-1.RAW	11:52:51	8.47	3.26	95.18	0.00	psample10	CT	1
SEQ-CCB1	A21			1								25625-1.RAW	12:03:22	3.82	251.44	5.82	0.00	psample10	OK	1
1708151-16RE3	B1			500								25626-1.RAW	12:13:53	4.72	0.62	5.05	0.00	psample10	OK	1
1708151-17RE3	B2			500								25627-1.RAW	12:24:24	5.23	9.98	82.95	0.00	psample10	OK	1
1708151-18RE3	B3			500								25628-1.RAW	12:34:54	4.47	7.89	266.24	0.00	psample10	OK	1
1708151-19RE3	B4			500								25629-1.RAW	12:45:25	2.34	8.09	279.79	0.00	psample10	CT	1
1708151-20RE3	B5			500								25630-1.RAW	12:55:56	5.77	9.29	360.52	0.00	psample10	OK	1
1708151-21RE3	B6			500								25631-1.RAW	13:06:27	6.30	61.23	583.49	0.00	psample10	OK	1
1708151-22RE3	B7			500								25632-1.RAW	13:16:57	3.56	45.74	432.30	0.00	psample10	CT	1
1708151-23RE3	B8			500								25633-1.RAW	13:27:28	3.80	32.33	1484.70	0.00	psample10	CT	1
F708539-BLK1	B9			500								25634-1.RAW	13:37:59	2.96	20.17	172.11	0.00	psample10	OK	1
F708539-BLK2	B10			500								25635-1.RAW	13:48:30	4.82	0.00	7.37	0.00	psample10	CT	1
SEQ-CCV2	B11			1								25636-1.RAW	13:59:00	3.24	0.00	7.42	0.00	psample10	CT	1
SEQ-CCB2	B12			1								25637-1.RAW	14:09:31	4.04	182.43	1.96	0.00	psample10	CT	1
SEQ-CCV3	A3			1								25638-1.RAW	14:20:02	1.71	0.00	5.24	0.00	psample10	OK	1
SEQ-CCV4	A4			1								25639-1.RAW	14:30:32	4.15	245.03	4.26	0.00	psample10	OK	1
F708539-BLK3	B13			500								25640-1.RAW	14:41:03	3.98	242.07	4.50	0.00	psample10	OK	1
F708539-BLK4	B14			500								25641-1.RAW	14:51:34	3.98	0.00	7.99	0.00	psample10	CT	1
F708539-B51	B15			2500								25642-1.RAW	15:02:05	4.88	0.00	9.20	0.00	psample10	OK	1
F708539-B5D1	B16			2500								25643-1.RAW	15:12:35	4.39	598.64	90.13	0.00	psample10	CT	1
F708539-DUP1	B17			500								25644-1.RAW	15:23:06	1.99	567.17	83.89	0.00	psample10	OK	1
F708539-M51	B18			500								25645-1.RAW	15:33:36	2.22	14.10	156.81	0.00	psample10	CT	1
F708539-M5D1	B19			500								25646-1.RAW	15:44:07	2.76	555.98	190.04	0.00	psample10	OK	1
F708539-M52	B20			500								25647-1.RAW	15:54:37	5.52	555.81	196.30	0.00	psample10	OK	1
F708539-M5D2	B21			500								25648-1.RAW	16:05:08	3.15	625.60	739.34	0.00	psample10	CT	1
1708441-01	C1			500								25649-1.RAW	16:15:39	6.71	702.68	887.87	0.00	psample10	CT	1
SEQ-CCV5	C2			1								25650-1.RAW	16:26:09	10.96	57.78	2065.48	0.00	psample10	CT	1
SEQ-CCB3	C3			1								25651-1.RAW	16:36:40	6.38	206.76	13.99	0.00	psample10	OK	1
1708557-11	C4			500								25652-1.RAW	16:47:11	2.09	0.00	5.40	0.00	psample10	OK	1
1708557-18	C5			500								25653-1.RAW	16:57:41	4.23	13.31	157.47	0.00	psample10	OK	1
1708557-19	C6			500								25654-1.RAW	17:08:12	3.71	54.68	1568.07	0.00	psample10	CT	1
1708557-20	C7			500								25655-1.RAW	17:18:43	5.55	8.66	203.43	0.00	psample10	CT	1
1708557-21	C8			500								25656-1.RAW	17:29:13	2.41	2.79	230.63	0.00	psample10	OK	1
1708557-22	C9			500								25657-1.RAW	17:39:44	4.26	6.20	123.58	0.00	psample10	OK	1
1708557-23	C10			500								25658-1.RAW	17:50:15	3.29	1.25	74.18	0.00	psample10	OK	1
1708557-24	C11			500								25659-1.RAW	18:00:45	6.65	89.91	1568.38	0.00	psample10	OK	1
1708557-25	C12			500								25660-1.RAW	18:11:16	7.94	72.08	2475.33	0.00	psample10	CT	1
1708557-26	C13			500								25661-1.RAW	18:21:47	5.63	78.54	727.12	0.00	psample10	CT	1
SEQ-CCV6	C14			1								25662-1.RAW	18:32:17	7.49	49.72	524.29	0.00	psample10	OK	1
SEQ-CCB4	C15			1								25663-1.RAW	18:42:48	5.97	254.92	13.19	0.00	psample10	OK	1
1708557-27	C16			500								25664-1.RAW	18:53:19	7.37	0.00	3.03	0.00	psample10	OK	1
1708557-28	C17			500								25665-1.RAW	19:03:50	6.76	44.04	776.95	0.00	psample10	CT	1
1708557-29	C18			500								25666-1.RAW	19:14:20	8.56	43.09	934.65	0.00	psample10	CT	1
1708557-30	C19			500								25667-1.RAW	19:24:51	2.79	1.02	83.88	0.00	psample10	OK	1
1708557-31	C20			500								25668-1.RAW	19:35:22	3.00	3.80	144.72	0.00	psample10	OK	1
1708557-32	C21			500								25669-1.RAW	19:45:52	4.35	0.92	72.82	0.00	psample10	OK	1
1708557-33	A1			500								25670-1.RAW	19:56:23	3.14	0.00	131.19	0.00	psample10	OK	1
1708557-34	A2			500								25671-1.RAW	20:06:54	2.91	56.40	610.44	0.00	psample10	OK	1
F708535-BLK1	A3			500								25672-1.RAW	20:17:25	6.36	21.49	464.42	0.00	psample10	CT	1
F708535-BLK2	A4			500								25673-1.RAW	20:27:56	1.36	0.00	11.55	0.00	psample10	OK	1
SEQ-CCV7	A5			1								25674-1.RAW	20:38:26	2.89	0.00	10.64	0.00	psample10	OK	1
SEQ-CCB5	A6			1								25675-1.RAW	20:48:57	5.03	256.89	2.66	0.00	psample10	OK	1
F708535-BLK3	A7			500								25676-1.RAW	20:59:28	3.27	0.00	5.84	0.00	psample10	OK	1
F708535-B51	A8			1000								25677-1.RAW	21:09:59	6.26	0.00	7.49	0.00	psample10	OK	1
												25678-1.RAW	21:20:29	4.97	934.58	138.56	0.00	psample10	CT	1

F708535-BSD1	A9	1000	25679-1.RAW	21:31:00	5.53	968.23	145.28	0.00	psample10	CT	1
F708535-DUP1	A10	500	25680-1.RAW	21:41:30	5.17	337.67	1296.07	0.00	psample10	CT	1
F708535-MS1	A11	500	25681-1.RAW	21:52:01	3.66	873.15	1320.35	0.00	psample10	CT	1
F708535-MSD1	A12	500	25682-1.RAW	22:02:32	11.04	922.67	1544.96	0.00	psample10	CT	1
F708535-MS2	A13	500	25683-1.RAW	22:13:03	10.69	650.93	2211.12	0.00	psample10	CT	1
F708535-MSD2	A14	500	25684-1.RAW	22:23:33	7.73	842.42	2094.13	0.00	psample10	CT	1
1708524-11	A15	500	25685-1.RAW	22:34:04	6.43	308.94	1209.25	0.00	psample10	CT	1
1708524-12	A16	500	25686-1.RAW	22:44:34	8.60	96.26	1560.54	0.00	psample10	OK	1
SEQ-CCV8	A17	1	25687-1.RAW	22:55:05	3.00	225.73	12.12	0.00	psample10	OK	1
SEQ-CCB6	A18	1	25688-1.RAW	23:05:36	3.55	1.53	12.40	0.00	psample10	OK	1
1708524-13	A19	500	25689-1.RAW	23:16:07	8.29	82.59	1965.68	0.00	psample10	CT	1
1708524-14	A20	500	25690-1.RAW	23:26:37	10.70	28.31	2490.75	0.00	psample10	CT	1
1708557-01	A21	500	25691-1.RAW	23:37:08	6.68	53.03	1653.69	0.00	psample10	OK	1
1708557-02	B1	500	25692-1.RAW	23:47:39	6.98	62.92	1819.81	0.00	psample10	OK	1
1708557-03	B2	500	25693-1.RAW	23:58:09	8.37	120.64	791.81	0.00	psample10	OK	1
1708557-04	B3	500	25694-1.RAW	0:08:40	6.81	87.33	1183.36	0.00	psample10	OK	1
1708557-05	B4	500	25695-1.RAW	0:19:11	2.70	32.02	476.20	0.00	psample10	OK	1
1708557-06	B5	500	25696-1.RAW	0:29:41	6.12	10.88	246.34	0.00	psample10	CT	1
1708557-07	B6	500	25697-1.RAW	0:40:13	5.90	3.98	111.64	0.00	psample10	OK	1
1708557-08	B7	500	25698-1.RAW	0:50:43	4.31	5.04	110.88	0.00	psample10	OK	1
SEQ-CCV9	B8	1	25699-1.RAW	1:01:14	2.32	206.21	3.31	0.00	psample10	OK	1
SEQ-CCB7	B9	1	25700-1.RAW	1:11:45	3.01	1.11	4.69	0.00	psample10	OK	1
1708557-09	B10	500	25701-1.RAW	1:22:15	4.95	4.71	91.85	0.00	psample10	CT	1
1708557-10	B11	500	25702-1.RAW	1:32:46	2.49	0.00	35.72	0.00	psample10	OK	1
1708557-12	B12	500	25703-1.RAW	1:43:17	4.91	14.87	87.73	0.00	psample10	CT	1
1708557-13	B13	500	25704-1.RAW	1:53:48	5.82	14.39	137.60	0.00	psample10	CT	1
1708557-14	B14	500	25705-1.RAW	2:04:18	3.80	7.55	134.26	0.00	psample10	OK	1
1708557-15	B15	500	25706-1.RAW	2:14:49	7.17	59.03	1045.54	0.00	psample10	CT	1
1708557-16	B16	500	25707-1.RAW	2:25:20	4.72	46.61	1683.73	0.00	psample10	CT	1
1708557-17	B17	500	25708-1.RAW	2:35:51	3.69	47.52	1333.94	0.00	psample10	CT	1
SEQ-CCVA	B18	1	25709-1.RAW	2:46:21	4.36	224.69	15.96	0.00	psample10	OK	1
SEQ-CCB8	B19	1	25710-1.RAW	2:56:52	6.38	0.00	5.46	0.00	psample10	OK	1



## ANALYSIS SEQUENCE

7102003

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/1/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
7102003-IBL1 ✓	QC	1			
7102003-CAL1 ✓	QC	2	1704180		
7102003-CAL2 ✓	QC	3	1704181		
7102003-CAL3 ✓	QC	4	1704182		
7102003-CAL4 ✓	QC	5	1704183		
7102003-CAL5 ✓	QC	6	1704184		
7102003-ICV1 ✓	QC	7	1705084		
7102003-ICB1 ✓	QC	8			
F708549-BLK7 ✓	QC	9			
F708549-BLK8 ✓	QC	10			
F708549-BLK9 ✓	QC	11			
1708151-09RE3 ✓	MHg-CVAFS-S-KOH	12			Added 9/1/2017 by DM2
1708151-10RE3 ✓	MHg-CVAFS-S-KOH	13			Added 9/1/2017 by DM2
1708151-11RE3 ✓	MHg-CVAFS-S-KOH	14			Added 9/1/2017 by DM2
1708151-12RE3 ✓	MHg-CVAFS-S-KOH	15			Added 9/1/2017 by DM2
1708151-13RE3 ✓	MHg-CVAFS-S-KOH	16			Added 9/1/2017 by DM2
1708151-14RE3 ✓	MHg-CVAFS-S-KOH	17			Added 9/1/2017 by DM2
1708151-15RE3 ✓	MHg-CVAFS-S-KOH	18			Added 9/1/2017 by DM2
7102003-CCV1 ✓	QC	19	1705084		
7102003-CCB1 ✓	QC	20			
1708151-16RE3 ✓	MHg-CVAFS-S-KOH	21			Added 9/1/2017 by DM2
1708151-17RE3 ✓	MHg-CVAFS-S-KOH	22			Added 9/1/2017 by DM2
1708151-18RE3 ✓	MHg-CVAFS-S-KOH	23			Added 9/1/2017 by DM2
1708151-19RE3 ✓	MHg-CVAFS-S-KOH	24			Added 9/1/2017 by DM2
1708151-20RE3 ✓	MHg-CVAFS-S-KOH	25			Added 9/1/2017 by DM2
1708151-21RE3 ✓	MHg-CVAFS-S-KOH	26			Added 9/1/2017 by DM2
1708151-22RE3 ✓	MHg-CVAFS-S-KOH	27			Added 9/1/2017 by DM2
1708151-23RE3 ✓	MHg-CVAFS-S-KOH	28			Added 9/1/2017 by DM2
F708539-BLK1 ✓	QC	29			
F708539-BLK2 ✓	QC	30			
7102003-CCV2 ✓	QC	31	1705084		
7102003-CCB2 ✓	QC	32			
7102003-CCV3 ✓	QC	33	1705084		
7102003-CCV4 ✓	QC	34	1705084		
F708539-BLK3 ✓	QC	35			

Due Date: 9/5/2017

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## ANALYSIS SEQUENCE

7102003

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/1/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
F708539-BLK4	QC	36			
F708539-BS1	QC	37			
F708539-BSD1	QC	38			
F708539-DUP1	QC	39			
F708539-MS1	QC	40			
F708539-MSD1	QC	41			
F708539-MS2	QC	42			
F708539-MSD2	QC	43			
1708441-01	MHg-CVAFS-T-KOH	44			Scan all data for level IV report
7102003-CCV5	QC	45	1705084		
7102003-CCB3	QC	46			
1708557-11	MHg-CVAFS-S-KOH	47			
1708557-18	MHg-CVAFS-S-KOH	48			
1708557-19	MHg-CVAFS-S-KOH	49			
1708557-20	MHg-CVAFS-S-KOH	50			
1708557-21	MHg-CVAFS-S-KOH	51			
1708557-22	MHg-CVAFS-S-KOH	52			
1708557-23	MHg-CVAFS-S-KOH	53			
1708557-24	MHg-CVAFS-S-KOH	54			
1708557-25	MHg-CVAFS-S-KOH	55			
1708557-26	MHg-CVAFS-S-KOH	56			
7102003-CCV6	QC	57	1705084		
7102003-CCB4	QC	58			
1708557-27	MHg-CVAFS-S-KOH	59			
1708557-28	MHg-CVAFS-S-KOH	60			
1708557-29	MHg-CVAFS-S-KOH	61			
1708557-30	MHg-CVAFS-S-KOH	62			
1708557-31	MHg-CVAFS-S-KOH	63			
1708557-32	MHg-CVAFS-S-KOH	64			
1708557-33	MHg-CVAFS-S-KOH	65			
1708557-34	MHg-CVAFS-S-KOH	66			
F708535-BLK1	QC	67			
F708535-BLK2	QC	68			
7102003-CCV7	QC	69	1705084		
7102003-CCB5	QC	70			

Due Date: 9/5/2017

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## ANALYSIS SEQUENCE

7I02003

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/1/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
F708535-BLK3	QC	71			
F708535-BS1	QC	72			
F708535-BSD1	QC	73			
F708535-DUP1	QC	74			
F708535-MS1	QC	75			
F708535-MSD1	QC	76			
F708535-MS2	QC	77			
F708535-MSD2	QC	78			
1708524-11	MHg-CVAFS-S-KOH	79			
1708524-12	MHg-CVAFS-S-KOH	80			
7I02003-CCV8	QC	81	1705084		
7I02003-CCB6	QC	82			
1708524-13	MHg-CVAFS-S-KOH	83			
1708524-14	MHg-CVAFS-S-KOH	84			
1708557-01	MHg-CVAFS-S-KOH	85			
1708557-02	MHg-CVAFS-S-KOH	86			
1708557-03	MHg-CVAFS-S-KOH	87			
1708557-04	MHg-CVAFS-S-KOH	88			
1708557-05	MHg-CVAFS-S-KOH	89			
1708557-06	MHg-CVAFS-S-KOH	90			
1708557-07	MHg-CVAFS-S-KOH	91			
1708557-08	MHg-CVAFS-S-KOH	92			
7I02003-CCV9	QC	93	1705084		
7I02003-CCB7	QC	94			
1708557-09	MHg-CVAFS-S-KOH	95			
1708557-10	MHg-CVAFS-S-KOH	96			
1708557-12	MHg-CVAFS-S-KOH	97			
1708557-13	MHg-CVAFS-S-KOH	98			
1708557-14	MHg-CVAFS-S-KOH	99			
1708557-15	MHg-CVAFS-S-KOH	100			
1708557-16	MHg-CVAFS-S-KOH	101			
1708557-17	MHg-CVAFS-S-KOH	102			
7I02003-CCVA	QC	103	1705084		
7I02003-CCB8	QC	104			

Due Date: 9/5/2017

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ANALYSIS SEQUENCE

7I02003

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/1/2017

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
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Don Moran                      9/1/17  
Samples Loaded By                      Date

Don Moran                      9/2/17  
Data Processed By                      Date

PREPARATION BENCH SHEET

2700-1  
9/1/17 DM

F708549

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708549-BLK1	Blank	0.25	20					
F708549-BLK2	Blank	0.25	20					
F708549-BLK3	Blank	0.25	20					
F708549-BLK4	Blank	0.25	20					
F708549-BLK5	Blank	0.25	20					
F708549-BLK6	Blank	0.25	20					
F708549-BLK7	Blank	0.25	40					500X
F708549-BLK8	Blank	0.5	40					500X
F708549-BLK9	Blank	0.5	40					500X
F708549-BS1	LCS	0.1332	20	1703305	133.2			
F708549-BS2	LCS	0.1332	20	1703305	133.2			
F708549-BSD1	LCS Dup	0.1279	20	1703305	127.9			
F708549-BSD2	LCS Dup	0.1279	20	1703305	127.9			
F708549-DUP1	Duplicate [1708151-04RE1]	0.2657	20					
F708549-DUP2	Duplicate [1708151-04RE2]	0.2657	20					
F708549-DUP3	Duplicate [1708151-04RE1]	0.2657	20					Added 9/1/2017 by DM2
F708549-MS1	Matrix Spike [1708151-04RE1]	0.2647	20	1605978	100			
F708549-MS2	Matrix Spike [1708151-22RE1]	0.2611	20	1605978	100			
F708549-MS3	Matrix Spike [1708151-04RE2]	0.2647	20	1605978	100			
F708549-MS4	Matrix Spike [1708151-22RE2]	0.2611	20	1605978	100			
F708549-MSD1	Matrix Spike Dup [1708151-04RE1]	0.2993	20	1605978	100			
F708549-MSD2	Matrix Spike Dup [1708151-22RE1]	0.2668	20	1605978	100			
F708549-MSD3	Matrix Spike Dup [1708151-04RE2]	0.2993	20	1605978	100			

Due Date: 9/5/2017

**PREPARATION BENCH SHEET**

F708549

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/25/2017**

F708549-MSD4	Matrix Spike Dup [1708151-22RE2]	0.2668	20	1605978	100		
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<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1605978	MHg New Primary 100 ng/mL spike	15-Oct-17 00:00	1606119	Methanol, HPLC Grade	17-Oct-19 00:00
1703305	DORM-4	29-May-20 00:00	1704399	Ethylating Agent (For Methyl Mercury Analysis)	16-Jan-18 00:00
		29-May-20 00:00	1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
			1704707	Acetate Buffer	29-Jan-18 00:00
			1705204	25% KOH/Methanol	03-Feb-18 00:00

PREPARATION BENCH SHEET

F708549

Eurofins Frontier Global Sciences, Inc.

2700-1  
9/1/17 DM

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708151-04RE1	W-101-INTA_080117_SED_01-03_R1	0.2732	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-04RE2	W-101-INTA_080117_SED_01-03_R1	0.2732	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-05RE1	W-101-INTA_080117_SED_01-03_R2	0.2924	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-05RE2	W-101-INTA_080117_SED_01-03_R2	0.2924	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-06RE1	W-101-INTA_080117_SED_01-03_R3	0.2824	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-06RE2	W-101-INTA_080117_SED_01-03_R3	0.2824	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-07RE1	W-104-B_080117_SED_00-01	0.2991	20	-	-	-	Re-extract added 8/25/2017 by CF	
1708151-07RE2	W-104-B_080117_SED_00-01	0.2991	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-08RE1	W-104-B_080117_SED_01-03	0.2936	20	-	-	-	Original jar broken, transferred sample	
1708151-08RE2	W-104-B_080117_SED_01-03	0.2936	20	-	-	-	Original jar broken, transferred sample	Added 9/1/2017 by DM2
1708151-09RE1	W-104-INTB_080117_SED_00-01	0.2967	20	-	-	-	Original jar broken, transferred sample	
1708151-09RE2	W-104-INTB_080117_SED_00-01	0.2967	20	-	-	-	Original jar broken, transferred sample	Added 9/1/2017 by DM2
1708151-09RE3	W-104-INTB_080117_SED_00-01	0.2967	20	-	-	-	Original jar broken, transferred sample	Added 9/1/2017 by DM2 50X
1708151-10RE1	W-104-INTB_080117_SED_01-03	0.2696	20	-	-	-	Original jar broken, transferred sample	
1708151-10RE2	W-104-INTB_080117_SED_01-03	0.2696	20	-	-	-	Original jar broken, transferred sample	Added 9/1/2017 by DM2
1708151-10RE3	W-104-INTB_080117_SED_01-03	0.2696	20	-	-	-	Original jar broken, transferred sample	Added 9/1/2017 by DM2 50X
1708151-11RE1	W-106-A_080117_SED_00-01	0.2685	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-11RE2	W-106-A_080117_SED_00-01	0.2685	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-11RE3	W-106-A_080117_SED_00-01	0.2685	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 50X

PREPARATION BENCH SHEET

2700-1  
9/1/17 DM

F708549

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

1708151-12RE1	W-106-A_080117_SED_01-03	0.2701	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-12RE2	W-106-A_080117_SED_01-03	0.2701	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-12RE3	W-106-A_080117_SED_01-03	0.2701	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 <i>SDX</i>
1708151-13RE1	W-107-A_080117_SED_00-01	0.2613	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-13RE2	W-107-A_080117_SED_00-01	0.2613	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-13RE3	W-107-A_080117_SED_00-01	0.2613	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 <i>SDX</i>
1708151-14RE1	W-107-A_080117_SED_01-03	0.2775	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-14RE2	W-107-A_080117_SED_01-03	0.2775	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-14RE3	W-107-A_080117_SED_01-03	0.2775	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 <i>SDX</i>
1708151-15RE1	W-109-A_080117_SED_00-01	0.2676	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-15RE2	W-109-A_080117_SED_00-01	0.2676	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-15RE3	W-109-A_080117_SED_00-01	0.2676	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 <i>SDX</i>
1708151-16RE1	W-109-A_080117_SED_01-03	0.2819	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-16RE2	W-109-A_080117_SED_01-03	0.2819	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-16RE3	W-109-A_080117_SED_01-03	0.2819	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 <i>SDX</i>
1708151-17RE1	W-110-A_080117_SED_00-01_R1	0.2863	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-17RE2	W-110-A_080117_SED_00-01_R1	0.2863	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-17RE3	W-110-A_080117_SED_00-01_R1	0.2863	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 <i>SDX</i>
1708151-18RE1	W-110-A_080117_SED_00-01_R2	0.2902	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-18RE2	W-110-A_080117_SED_00-01_R2	0.2902	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-18RE3	W-110-A_080117_SED_00-01_R2	0.2902	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 <i>SDX</i>

Due Date: 9/5/2017



PREPARATION BENCH SHEET

2700-1

9/1/17 DM

F708549

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

1708151-19RE1	W-110-A_080117_SED_00-01_R3	0.2897	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-19RE2	W-110-A_080117_SED_00-01_R3	0.2897	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-19RE3	W-110-A_080117_SED_00-01_R3	0.2897	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 500X
1708151-20RE1	W-110-A_080117_SED_01-03	0.2506	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-20RE2	W-110-A_080117_SED_01-03	0.2506	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-20RE3	W-110-A_080117_SED_01-03	0.2506	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 500X
1708151-21RE1	W-MM-09_080117_SED_00-01	0.2921	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-21RE2	W-MM-09_080117_SED_00-01	0.2921	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-21RE3	W-MM-09_080117_SED_00-01	0.2921	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 500X
1708151-22RE1	W-MM-09_080117_SED_01-03	0.2731	20	QC	-	-	MS/MSD Re-extract added 8/25/2017	
1708151-22RE2	W-MM-09_080117_SED_01-03	0.2731	20	QC	-	-	MS/MSD Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-22RE3	W-MM-09_080117_SED_01-03	0.2731	20	QC	-	-	MS/MSD Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 500X
1708151-23RE1	W-MM-10_080117_SED_00-01	0.2688	20	-	-	-	Re-extract added 8/25/2017 by DM2	
1708151-23RE2	W-MM-10_080117_SED_00-01	0.2688	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2
1708151-23RE3	W-MM-10_080117_SED_00-01	0.2688	20	-	-	-	Added 9/1/2017 by DM2	Added 9/1/2017 by DM2 500X

**PREPARATION BENCH SHEET**

F708539

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/25/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708539-BLK1	Blank	0.25	20					
F708539-BLK2	Blank	0.25	20					
F708539-BLK3	Blank	0.25	20					
F708539-BLK4	Filter BLK for 1708441	0.25	20					
F708539-BS1	LCS	0.205	20	1703305	205			
F708539-BSD1	LCS Dup	0.206	20	1703305	206			
F708539-DUP1	Duplicate [1708557-11]	0.25	20					
F708539-MS1	Matrix Spike [1708557-11]	0.262	20	1605978	100			
F708539-MS2	Matrix Spike [1708557-25]	0.26	20	1605978	100			
F708539-MSD1	Matrix Spike Dup [1708557-11]	0.275	20	1605978	100			
F708539-MSD2	Matrix Spike Dup [1708557-25]	0.258	20	1605978	100			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1605978	MHg New Primary 100 ng/mL spike	15-Oct-17 00:00	1606119	Methanol, HPLC Grade	17-Oct-19 00:00
1703305	DORM-4	29-May-20 00:00	1702696		28-Apr-20 00:00
		29-May-20 00:00	1704399	Ethylating Agent (For Methyl Mercury Analysis)	16-Jan-18 00:00
			1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
			1704707	Acetate Buffer	29-Jan-18 00:00
			1705204	25% KOH/Methanol	03-Feb-18 00:00

**PREPARATION BENCH SHEET**

F708539

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/25/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708441-01	OL-2651-01	0.2511	20	-	-	-	Scan all data for level IV report	
1708557-11	ESFP-W_081517_SED_00-01	0.275	20	QC	-	-	MS/MSD	
1708557-18	OB-01_081517_SED_01-03	0.25	20	-	-	-	Contaiendr D arrived broken; transferred	
1708557-19	OV-04_081517_SED_00-01	0.2816	20	-	-	-		
1708557-20	OV-04_081517_SED_01-03	0.297	20	-	-	-	Contaiendr D arrived broken; transferred	
1708557-21	OV-04A_081517_SED_00-01	0.296	20	-	-	-		
1708557-22	OV-04A_081517_SED_01-03	0.265	20	-	-	-		
1708557-23	PI-01_081517_SED_00-01	0.279	20	-	-	-		
1708557-24	PI-01_081517_SED_01-03	0.2694	20	-	-	-		
1708557-25	SVE-02INT_081517_SED_00-01	0.295	20	QC	-	-	MS/MSD	
1708557-26	SVE-02INT_081517_SED_01-03	0.272	20	-	-	-		
1708557-27	ES-15_081717_SED_00-01	0.26	20	-	-	-		
1708557-28	ES-15_081717_SED_01-03	0.259	20	-	-	-	Contaiendr D arrived broken; transferred	
1708557-29	OB-05SW_081717_SED_00-01_R1	0.259	20	-	-	-		
1708557-30	OB-05SW_081717_SED_00-01_R2	0.254	20	-	-	-		
1708557-31	OB-05SW_081717_SED_00-01_R3	0.269	20	-	-	-		
1708557-32	OB-05SW_081717_SED_01-03	0.264	20	-	-	-	Contaiendr A and D arrived broken; trans	
1708557-33	VI-W_081717_SED_00-01	0.295	20	-	-	-		
1708557-34	VI-W_81717_SED_01-03	0.259	20	-	-	-	Contaiendr A arrived broken; transferred	

**PREPARATION BENCH SHEET**

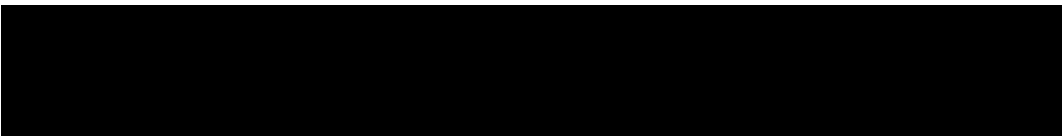
F708539

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/25/2017**



**Due Date: 9/14/2017**

PREPARATION BENCH SHEET

2700-1

F708539

9/11/17 DM

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708539-BLK1	Blank	0.25	20					500X
F708539-BLK2	Blank	0.25	20					500X
F708539-BLK3	Blank	0.25	20					500X
F708539-BLK4	Filter BLK for 1708441	<del>0.25</del> 0.26	<del>20</del> 20					500X
F708539-BS1	LCS	0.205	20	1703305	205			2500X
F708539-BSD1	LCS Dup	0.206	20	1703305	206			2500X
F708539-DUP1	Duplicate [1708557-11]	0.25	20					500X
F708539-MS1	Matrix Spike [1708557-11]	0.262	20	1605978	100			500X
F708539-MS2	Matrix Spike [1708557-25]	0.26	20	1605978	100			500X
F708539-MSD1	Matrix Spike Dup [1708557-11]	0.275	20	1605978	100			500X
F708539-MSD2	Matrix Spike Dup [1708557-25]	0.258	20	1605978	100			500X

Standard ID(s):  
1605978  
1703305

Description:  
MHg New Primary 100 ng/mL spike  
DORM-4

Expiration:  
15-Oct-17 00:00  
29-May-20 00:00  
29-May-20 00:00

Reagent ID(s):  
1606119  
1702696  
1704424  
1705204

Description:  
Methanol, HPLC Grade  
Boiling Chips for AFS prep  
25% KOH/Methanol

Expiration:  
17-Oct-19 00:00  
28-Apr-20 00:00  
21-Jan-18 00:00  
03-Feb-18 00:00

1704399

1704707

PREPARATION BENCH SHEET

2700-1  
9/1/17 DM

F708539

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/25/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708441-01	OL-2651-01	0.2511	20	-	-	-	Scan all data for level IV report	500X
1708557-11	ESFP-W_081517_SED_00-01	0.275	20	QC	-	-	MS/MSD	500X
1708557-18	OB-01_081517_SED_01-03	0.25	20	-	-	-	Contaiern D arrived broken; transferred	500X
1708557-19	OV-04_081517_SED_00-01	0.2816	20	-	-	-		500X
1708557-20	OV-04_081517_SED_01-03	0.297	20	-	-	-	Contaiern D arrived broken; transferred	500X
1708557-21	OV-04A_081517_SED_00-01	0.296	20	-	-	-		500X
1708557-22	OV-04A_081517_SED_01-03	0.265	20	-	-	-		500X
1708557-23	PI-01_081517_SED_00-01	0.279	20	-	-	-		500X
1708557-24	PI-01_081517_SED_01-03	0.2694	20	-	-	-		500X
1708557-25	SVE-02INT_081517_SED_00-01	0.295	20	QC	-	-	MS/MSD	500X
1708557-26	SVE-02INT_081517_SED_01-03	0.272	20	-	-	-		500X
1708557-27	ES-15_081717_SED_00-01	0.26	20	-	-	-		500X
1708557-28	ES-15_081717_SED_01-03	0.259	20	-	-	-	Contaiern D arrived broken; transferred	500X
1708557-29	OB-05SW_081717_SED_00-01_R1	0.259	20	-	-	-		500X
1708557-30	OB-05SW_081717_SED_00-01_R2	0.254	20	-	-	-		500X
1708557-31	OB-05SW_081717_SED_00-01_R3	0.269	20	-	-	-		500X
1708557-32	OB-05SW_081717_SED_01-03	0.264	20	-	-	-	Contaiern A and D arrived broken; trans	500X
1708557-33	VI-W_081717_SED_00-01	0.295	20	-	-	-		500X
1708557-34	VI-W_81717_SED_01-03	0.259	20	-	-	-	Contaiern A arrived broken; transferred	500X

**PREPARATION BENCH SHEET**

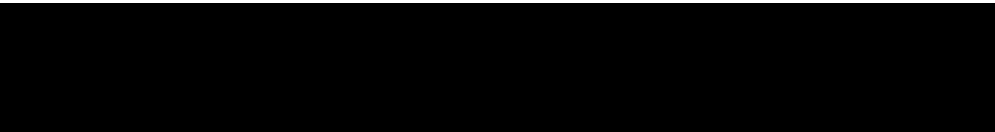
F708539

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/25/2017**



Technician: CLL/cwf Batch#: F708539 Date: 8/25/17

- EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: \_\_\_\_\_ Vial Type:  Glass  Teflon  
 Balance#: 6 Calibrated?  Yes  No Therm.#: 17698 Calibrated?  Yes  No

\*Time in: 14:35 Actual Temp. (raw): 77.0 °C w/ CF: 77.0 °C  
 Time out: 7:35 Actual Temp. (raw): 78.0 °C w/ CF: 78.0 °C  
 \*Time in can't begin before target temperature is reached

Final vol.: 20 mL (LIMS ID: 1606119, 1702416) Spike vol.: 100 µL (LIMS ID: 1609578, 1702417)  
 Spike Witness: DM 8/28/17 (initial and date)

HCl LIMS ID: N/A Pipette SN#: NU09653 Calibration Date: 8/24/17  
 HNO<sub>3</sub> LIMS ID: N/A Pipette SN#: NU01192 Calibration Date: 8/22/17  
 70/30 LIMS ID: N/A Dispenser #: 02NU8426 Calibrated?  Yes  No  
 Other Acid LIMS ID: KOH/Methanol = 1705204 Dispenser #: N/A  
 Glass Vial # 00068124 Boiling Chip lot # 1704424 \*Hotblock Position: B5 A6 cwf 8/28/17

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	CRM LIMS ID <input type="checkbox"/> NA
1	F708539-BLK1	0.286	23	1708557-28	0.259	BS1/BSD1:
2	F708539-BLK2	0.256	24	1708557-29	0.259	Dorm-4:
3	F708539-BLK3	0.295	25	<del>1708557-30</del>		1703325
4	F708539-BS1	0.205	26	1708557-31		Comments
5	F708539-BSD1	0.206	27	1708557-32		Dupl/MS1/MSD1
6	1708557-11	0.275	28	1708557-33	<u>cwf 8/28/17</u>	SRL:
7	F708539-DUP1	0.250	29	<del>1708557-34</del>		1708557-11
8	F708539-MS1	0.262	30	F708539-BLK4	0.260	MS2/MSD2
9	F708539-MSD1	0.275	31	1708557-30	0.254	SRL:
10	1708557-25	0.295	32	1708557-31	0.269	1708557-25
11	F708539-MS2	0.260	33	1708557-32	0.264	
12	F708539-MSD2	0.258	34	1708557-33	0.295	BLK4 is file
13	1708441-01	0.2511	35	1708557-34	0.259	BLK for 1708441
14	1708557-18	0.2500	36			1708557-29, 30,
15	1708557-19	0.2816	37			31 all these same
16	1708557-20	0.2970	38			sample.
17	1708557-21	0.296	39			1708441-01
18	1708557-22	0.265	40			weighed out
19	1708557-23	0.279	41			on scale #19
20	1708557-24	0.2694	42			Samples 1708557
21	1708557-26	0.272	43			-18, 19, 20 and
22	1708557-27	0.260	44			1708557-24
						weighed on scale
						#19 cwf 8/28/17



**PREPARATION BENCH SHEET**

F708535

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/24/2017**

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708535-BLK1	Blank	0.25	20					
F708535-BLK2	Blank	0.25	20					
F708535-BLK3	Blank	0.25	20					
F708535-BS1	LCS	0.1367	20	1703305	136.7			
F708535-BSD1	LCS Dup	0.1343	20	1703305	134.3			
F708535-DUP1	Duplicate [1708524-11]	0.2881	20					
F708535-MS1	Matrix Spike [1708524-11]	0.2782	20	1605978	100			
F708535-MS2	Matrix Spike [1708524-12]	0.2679	20	1605978	100			
F708535-MSD1	Matrix Spike Dup [1708524-11]	0.2574	20	1605978	100			
F708535-MSD2	Matrix Spike Dup [1708524-12]	0.2867	20	1605978	100			

<u>Standard ID(s):</u>	<u>Description:</u>
1605978	MHg New Primary 100 ng/mL spike
1703305	DORM-4

<u>Expiration:</u>
15-Oct-17 00:00
29-May-20 00:00
29-May-20 00:00

<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1606119	Methanol, HPLC Grade	17-Oct-19 00:00
1704399	Ethylating Agent (For Methyl Mercury Analysis)	16-Jan-18 00:00
1704424	Boiling Chips for AFS prep	21-Jan-18 00:00
1704707	Acetate Buffer	29-Jan-18 00:00
1705204	25% KOH/Methanol	03-Feb-18 00:00

**PREPARATION BENCH SHEET**

F708535

**Eurofins Frontier Global Sciences, Inc.**

**Matrix: Tissue**

**Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion**

**Prepared: 8/24/2017**

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708524-11	W-102-C_081517_SED_00-01	0.2685	20	QC	-	-	MS/MSD	
1708524-12	W-102-C_081517_SED_01-03	0.2941	20	QC	-	-	MS/MSD	
1708524-13	W-108-A_081517_SED_00-01	0.2875	20	-	-	-		
1708524-14	W-108-A_081517_SED_01-03	0.277	20	-	-	-		
1708557-01	BFK-01_081517_SED_00-01	0.2905	20	-	-	-		
1708557-02	BFK-01_081517_SED_01-03	0.2936	20	-	-	-		
1708557-03	BO-04 INT_081517_SED_00-01	0.2618	20	-	-	-	Contaienr A arrived broken; transferred	
1708557-04	BO-04 INT_081517_SED_01-03	0.2585	20	-	-	-		
1708557-05	ES-03_081517_SED_00-01	0.2657	20	-	-	-		
1708557-06	ES-03_081517_SED_01-03	0.2748	20	-	-	-	Containers D and A arrived broken; trar	
1708557-07	ESFP_081517_SED_00-01_R1	0.2556	20	-	-	-		
1708557-08	ESFP_081517_SED_00-01_R2	0.2627	20	-	-	-		
1708557-09	ESFP_081517_SED_00-01_R3	0.2792	20	-	-	-		
1708557-10	ESFP_081517_SED_01-03	0.2509	20	-	-	-	Contaienr A arrived broken; transferred	
1708557-12	ESFP-W_081517_SED_01-03_R1	0.2707	20	-	-	-		
1708557-13	ESFP-W_081517_SED_01-03_R2	0.2518	20	-	-	-		
1708557-14	ESFP-W_081517_SED_01-03_R3	0.2553	20	-	-	-		
1708557-15	MM-MR-INT_081517_SED_00-01	0.2752	20	-	-	-		
1708557-16	MM-MR-INT_081517_SED_01-03	0.2746	20	-	-	-		

PREPARATION BENCH SHEET

F708535

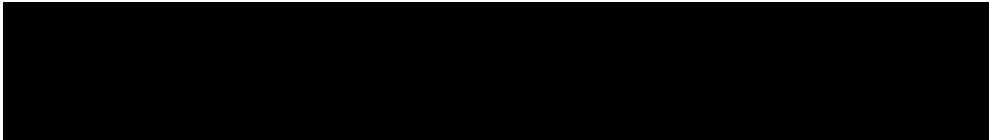
Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/24/2017

1708557-17	OB-01_081517_SED_00-01	0.2711	20	-	-	-		
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PREPARATION BENCH SHEET

2700-1

9/1/17 DM

F708535

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/24/2017

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F708535-BLK1	Blank	0.25	20					500X
F708535-BLK2	Blank	0.25	20					500X
F708535-BLK3	Blank	0.25	20					500X
F708535-BS1	LCS	0.1367	20	1703305	136.7			1000X
F708535-BSD1	LCS Dup	0.1343	20	1703305	134.3			1000X
F708535-DUP1	Duplicate [1708524-11]	0.2881	20					500X
F708535-MS1	Matrix Spike [1708524-11]	0.2782	20	1605978	100			500X
F708535-MS2	Matrix Spike [1708524-12]	0.2679	20	1605978	100			500X
F708535-MSD1	Matrix Spike Dup [1708524-11]	0.2574	20	1605978	100			500X
F708535-MSD2	Matrix Spike Dup [1708524-12]	0.2867	20	1605978	100			500X

Standard ID(s):  
 1605978  
 1703305

Description:  
 MHg New Primary 100 ng/mL spike  
 DORM-4

Expiration:  
 15-Oct-17 00:00  
 29-May-20 00:00  
 29-May-20 00:00

Reagent ID(s):  
 1606119  
 1704424  
 1705204

Description:  
 Methanol, HPLC Grade  
 Boiling Chips for AFS prep  
 25% KOH/Methanol

Expiration:  
 17-Oct-19 00:00  
 21-Jan-18 00:00  
 03-Feb-18 00:00

1704399

1704707

PREPARATION BENCH SHEET

2700-1  
9/1/17 DM

F708535

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/24/2017

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1708524-11	W-102-C_081517_SED_00-01	0.2685	20	QC	-	-	MS/MSD	500X
1708524-12	W-102-C_081517_SED_01-03	0.2941	20	QC	-	-	MS/MSD	500X
1708524-13	W-108-A_081517_SED_00-01	0.2875	20	-	-	-		500X
1708524-14	W-108-A_081517_SED_01-03	0.277	20	-	-	-		500X
1708557-01	BFK-01_081517_SED_00-01	0.2905	20	-	-	-		500X
1708557-02	BFK-01_081517_SED_01-03	0.2936	20	-	-	-		500X
1708557-03	BO-04 INT_081517_SED_00-01	0.2618	20	-	-	-	Contaiendr A arrived broken; transferred	500y
1708557-04	BO-04 INT_081517_SED_01-03	0.2585	20	-	-	-		500X
1708557-05	ES-03_081517_SED_00-01	0.2657	20	-	-	-		500X
1708557-06	ES-03_081517_SED_01-03	0.2748	20	-	-	-	Containers D and A arrived broken; trar	500X
1708557-07	ESFP_081517_SED_00-01_R1	0.2556	20	-	-	-		500X
1708557-08	ESFP_081517_SED_00-01_R2	0.2627	20	-	-	-		500X
1708557-09	ESFP_081517_SED_00-01_R3	0.2792	20	-	-	-		500X
1708557-10	ESFP_081517_SED_01-03	0.2509	20	-	-	-	Contaiendr A arrived broken; transferred	500X
1708557-12	ESFP-W_081517_SED_01-03_R1	0.2707	20	-	-	-		500X
1708557-13	ESFP-W_081517_SED_01-03_R2	0.2518	20	-	-	-		500X
1708557-14	ESFP-W_081517_SED_01-03_R3	0.2553	20	-	-	-		500X
1708557-15	MM-MR-INT_081517_SED_00-01	0.2752	20	-	-	-		500X
1708557-16	MM-MR-INT_081517_SED_01-03	0.2746	20	-	-	-		500X

PREPARATION BENCH SHEET

2700-1  
9/1/17 DM

F708535

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: AFS - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 8/24/2017

1708557-17	OB-01_081517_SED_00-01	0.2711	20	-	-	-	500x
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Technician: CWF Batch#: F708535 Date: 8/28/17

- EFAFS-T-AFS-SOP2986 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFAFS-T-AFS-SOP2795 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFAFS-T-AFS-SOP5134 Sediments - Methyl Mercury - KBr/CH<sub>2</sub>Cl<sub>2</sub>: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFAFS-T-AFS-SOP2807 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: \_\_\_\_\_ Vial Type:  Glass  Teflon  
 Balance#: 19 Calibrated?  Yes  No Therm.#: 13698 Calibrated?  Yes  No

\*Time in: 14:20 Actual Temp. (raw): 77.0 °C w/ CF: 77.0 °C  
 Time out: 17:35 Actual Temp. (raw): 78.0 °C w/ CF: 78.0 °C

\*Time in can't begin before target temperature is reached

Final vol.: 20 mL (LIMS ID: 1606119) Spike vol.: 100 µL (LIMS ID: 1609178)  
 Spike Witness: DM 8/28/17 (initial and date)

HCl LIMS ID: N/A Pipette SN#: NU09653 Calibration Date: 8/24/17  
 HNO<sub>3</sub> LIMS ID: N/A Pipette SN#: NU0952 Calibration Date: 8/22/17  
 70/30 LIMS ID: N/A Dispenser #: 02N48426 Calibrated?  Yes  No  
 Other Acid LIMS ID: KOH/methanol = 1705204 Dispenser #: N/A  
 Glass Vial # 00088224 Boiling Chip lot # 1704424 \*Hotblock Position: A6

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	CRM LIMS ID <input type="checkbox"/> NA
1	F708535 - Blk1	0.2651	23	1708557 - 09	0.2792	BSD1/Blk = DDBM4
2	F708535 - Blk2	0.2771	24	1708557 - 10	0.2509	LIMS = 1703305
3	F708535 - Blk3	0.2848	25	1708557 - 12	0.2707	
4	F708535 - BSc1	0.1367	26	1708557 - 13	0.2918	Comments
5	F708535 - BSD1	0.1343	27	1708557 - 14	0.2553	DUP1, MS1, MSD1 8/28/17
6	1768524 - 11	0.2685	28	1708557 - 15	0.2752	SOURCE = 1708524 - 11
7	F708535 - DUP1	0.2881	29	1708557 - 16	0.2746	MS2, MSD2
8	F708535 - MS1	0.2782	30	1708557 - 17	0.2711	SOURCE = 1708524 - 12
9	F708535 - MSD1	0.2574	31			
10	1708524 - 12	0.2941	32			CWF 8/28/17
11	F708535 - MS2	0.2679	33			
12	F708535 - MSD2	0.2867	34			
13	1708524 - 13	0.2875	35			
14	1708524 - 14	0.2770	36			
15	1708557 - 01	0.2905	37			
16	1708557 - 02	0.2936	38			
17	1708557 - 03	0.2618	39			
18	1708557 - 04	0.2585	40			
19	1708557 - 05	0.2657	41			
20	1708557 - 06	0.2748	42			
21	1708557 - 07	0.2556	43			
22	1708557 - 08	0.2627	44			

# Failing Data Report - 7102003

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
F708535-MSD2	MHg-CVAFS-S-KOH	55.3	1.7	45.7	6.2	34.915	ng/g	141	65.00	130.00	28.3	35.00	PASS-OVER	FAIL-MSD (Rec.)	QM.07 -
<del>F708539-DUP1</del>	<del>MHg-CVAFS-T-KOH</del>	1.1	2.0				ng/g				200	35.00	PASS-OVER	FAIL-DUP	
<del>F708539-MSD2</del>	<del>MHg-CVAFS-T-KOH</del>	51.3	1.9	45.3		38.798	ng/g	132	65.00	130.00	11.6	35.00	PASS-OVER	FAIL-MSD (Rec.)	
<del>F708535-DUP1</del>	<del>MHg-CVAFS-T-KOH</del>	22.1	1.7				ng/g				200	35.00	PASS-OVER	FAIL-DUP	
F708535-MS1	MHg-CVAFS-T-KOH	59.1	1.8			35.981	ng/g	164	65.00	130.00			PASS-OVER	FAIL-MS	} Not Prepared or Analyzed for MHg-CVAFS T-KOH
F708535-MSD1	MHg-CVAFS-T-KOH	67.5	1.9	59.1		38.889	ng/g	173	65.00	130.00	5.52	35.00	PASS-OVER	FAIL-MSD (Rec.)	
<del>F708535-MSD2</del>	<del>MHg-CVAFS-T-KOH</del>	55.3	1.7	45.7		34.915	ng/g	158	65.00	130.00	25.6	35.00	PASS-OVER	FAIL-MSD (Rec.)	

*within  
control  
matrix*

*Not needed  
for batch  
F708535  
9/15/17*

Analyst Reviewed By Don M... Date 9/2/17

Peer Reviewed By [Signature] Date 9/15/17



**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b>	DON MORAN	<b>Sequence #:</b>	7102003
<b>Reviewer:</b>	<i>R 9/5/17</i>	<b>Dataset ID #:</b>	MHG27001-170901-1
<b>Date:</b>	7.2.17	<b>WO #:</b>	1708151, 1708524, 1708557, 1708441
<b>Batch #(s):</b>	F708549, F708535, F708539	<b>Client(s):</b>	PARSONS, AMEC FOSTER WHEELER

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input type="checkbox"/> MHg	SOP2797 MHg Distillation	Water
<input checked="" type="checkbox"/> MHg	SOP2986 KOH/MeOH Digest	Tissue
<input type="checkbox"/> MHg	SOP5134 MeCl Extraction	Sed/Soil
<input type="checkbox"/> DMHg	SOP2816 (None Accredited method)	ALL

**Analyst Initials:**

*DM*

**Reviewer Initials:**

*R 9/5/17*

- |   |  |  |   |
|---|--|--|---|
| 1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| 2. Check for transcription errors from Excel spreadsheet (or Prep Bench sheet)/Raw data     | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (a) Reviewer: 100% of peak heights checked  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (b) Are there peak height errors?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (c) Error on a sample: Do peak heights, responses, & initial results match corrected data?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?                        | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries). | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (f) Check and compare masses (review prep bench sheet)                                      | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (g) Check and compare initial and final volumes   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (h) Do aliquots and dilutions written on benchsheet match those in Excel?                   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input type="checkbox"/> N/A            |
| (i) Is the pH>3.0 for all distilled samples?  | <input type="checkbox"/> YES             | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/> N/A |
| (j) Is the sequence #, analyst, date, and instrument # on the QC page?                      | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (k) Is the analysis status correct? (analyzed/initial review/reviewed)                      | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (l) Original prep bench sheet added to data package?  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)       | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| 3. High QA?                      WO#(s)/Client(s): _____                                    | <input type="checkbox"/> YES             | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>     |
| 4. Client specific QC? (if Yes, refer to Project Notes/LIMS)                                | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (a) Have the QC requirements been met for all WO#s?   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| 5. 20 or fewer samples in batch? _____  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (a) 3 PBs, 1 LCS/LCSD (or BS/BSD), 2 MS/MSD/MD per batch?                                   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| (b) 1 CCV and 1 CCB every 10 analytical runs? _____   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO            | <input checked="" type="checkbox"/>     |
| <b>QA/QC Data Checked</b>   |  |  |   |
| 6. The calibration curve included a minimum of 5 Standards                                  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          | <input type="checkbox"/> N/A            |
| Comments: _____   |  |  |   |
| 7. 1st Calibration Standard % Recoveries (65-135%)  | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          | <input type="checkbox"/> N/A            |
| Comments: _____   |  |  |   |
| 8. RSD CF (≤ 15%)   | <input checked="" type="checkbox"/> PASS | <input type="checkbox"/> FAIL          | <input checked="" type="checkbox"/>     |
| Comments: _____   |  |  |   |

**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b>	DON MORAN	<b>Sequence #:</b>	7I02003
<b>Reviewer:</b>	0 <i>R 9/5/17</i>	<b>Dataset ID #:</b>	MHG27001-170901-1
<b>Date:</b>	9/2/2017	<b>WO #:</b>	1708151, 1708524, 1708557, 1708441
<b>Batch #(s):</b>	F708549, F708535, F708539	<b>Client(s):</b>	PARSONS, AMEC FOSTER WHEELER

	<b>Analyst Initials:</b> <i>DM</i>	<b>Reviewer Initials:</b> <i>R 9/5/17</i>
9. ICV % Recoveries 67-133% Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
10. CCV % Recoveries 67-133% Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
11. Are the absolute value of the ICB and CCBs < PQL? Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
13. LCS/LCSD or BS/BSD RPD (< 25%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
14. Water: Average of Preparation Blanks < 0.045 ng/L and standard deviation of 0.015 ng/L? Comments: _____	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix? Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done)	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
17. Is the correct 'Source' designated for MD/MS/MSD?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
18. For digested preps: was there a spike witness signature & date on the prep bench sheet?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
19. MD RPD/MT RSD(< 35%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
20. Is there one set of MS/MSD per every 10 samples? Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
21. MS/MSD RPD(< 35%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
22. MS (AS) % Recoveries (65-130%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
23. MSD (ASD) % Recoveries (65-130%) Comments: _____	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
25. Are all samples within instrument calibration range (or at maximum aliquot size)? Comments: _____	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/>
26. For instrumental dilutions, is the dilution factor in excel correct? Is the sample volume, diluents, and final volume of the dilution noted on benchsheet?	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> NO <input checked="" type="checkbox"/> PASS <input type="checkbox"/> NO	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
27. Dissolved < Total metals (if applicable) Comments: _____	<input type="checkbox"/> PASS <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
28. Effluent < Influent metals (visually confirm if needed) Comments: _____	<input type="checkbox"/> PASS <input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>

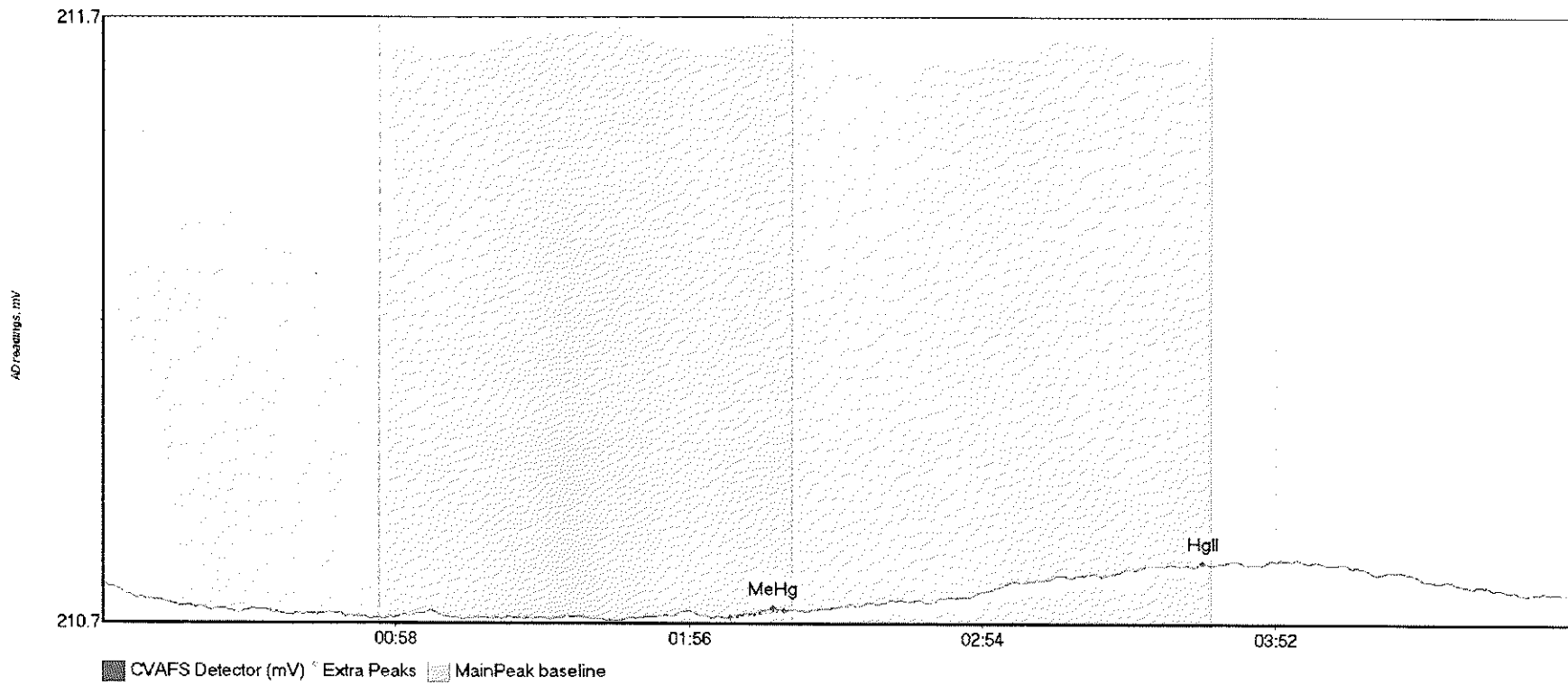
**Peer Review Check List for MHg for CV-GC-AFS (SOP2808) 2017 Rev 6 (02/22/17)**

<b>Analyst:</b>	DON MORAN	<b>Sequence #:</b>	7I02003
<b>Reviewer:</b>	0 <i>R 9/5/17</i>	<b>Dataset ID #:</b>	MHG27001-170901-1
<b>Date:</b>	9/2/2017	<b>WO #:</b>	1708151, 1708524, 1708557, 1708441
<b>Batch #(s):</b>	F708549, F708535, F708539	<b>Client(s):</b>	PARSONS, AMEC FOSTER WHEELER

**Analyst Initials:** *DM*      **Reviewer Initials:** *R 9/5/17*

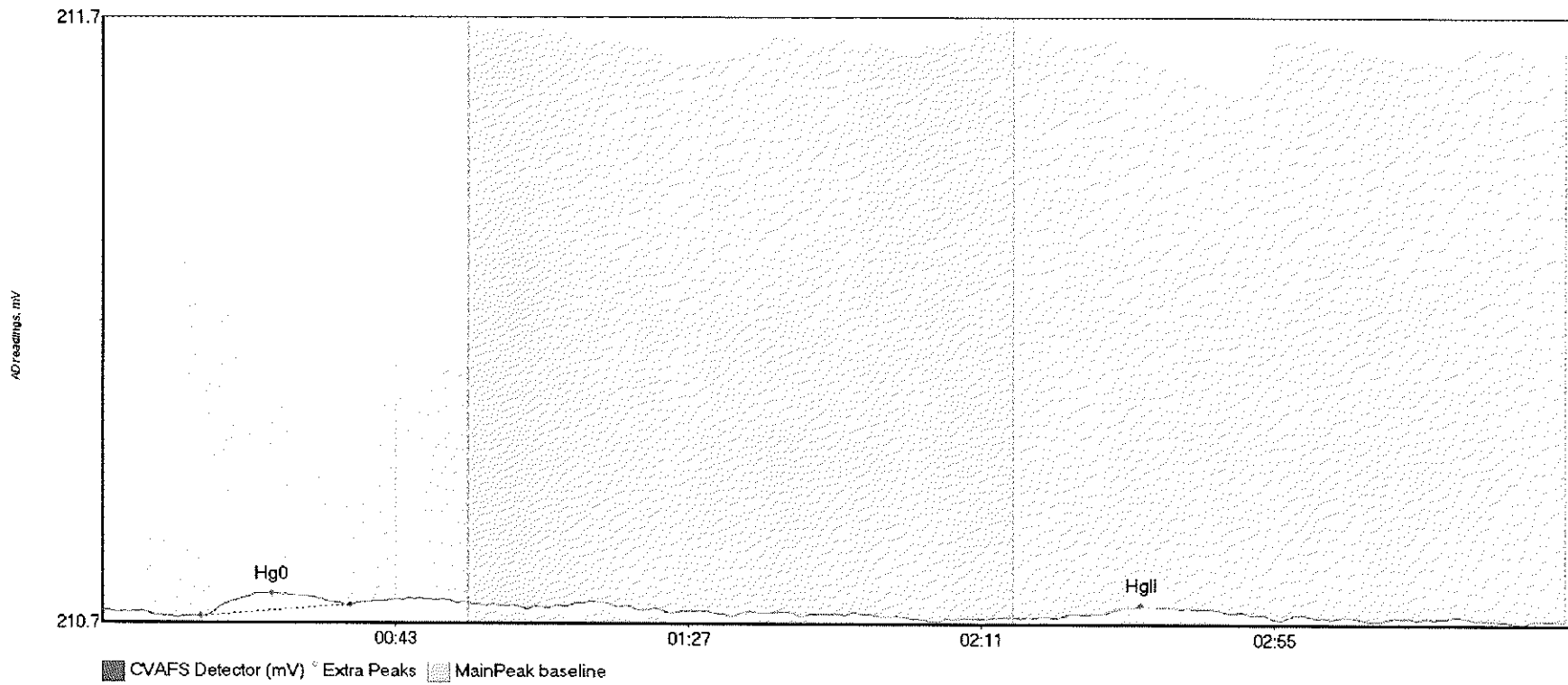
29. Are re-runs noted with reason?  YES  NO  N/A
- Comments: \_\_\_\_\_
30. For failing QC (CCV, CCB, PB, BS/BSD, CAL):  YES  NO  N/A
- Was a bubbler and trap test run before the analytical run continued?
- Comments: \_\_\_\_\_
31. Do re-run results compare to initial analysis (< 35% RPD)?  YES  NO  N/A
- Comments: \_\_\_\_\_
32. Are qualifiers consistent with the data review flowcharts?  YES  NO  N/A
- Comments: \_\_\_\_\_
33. Have non-reportable samples been imported into LIMS and clicked to non-reportable?  YES  NO  N/A
- Comments: \_\_\_\_\_
34. Have re-extracts been created for non-reportable samples?  YES  NO  N/A
35. Narrations in MMO box in LIMS?  YES  NO  N/A
- Comments: \_\_\_\_\_
36. Are there any HIGH QA projects within the data?  YES  NO
- If so, place dataset to the QA office.
37. Does the data set need scanning?  YES  NO  N/A
- Files located at: \\Cuprum\gen\_admin\Quality Assurance\Training Master\DOCs
38. Date of analyst IDOC/CDOC: 6/13/2017 IDOC/CDOC within last 12 months?  YES  NO  N/A
39. Date of analyst's SOP reading: 5/23/2016 Current SOP revision?  YES  NO  N/A
40. Date of LOD: 4/24/2017 LOD within last 3 months (within 12 months for MDN)?  YES  NO  N/A
41. Date of LOQ: 4/24/2017 LOQ within last 3 months (within 12 months for MDN)?  YES  NO  N/A
42. If MDN samples, date of last MDL study: \_\_\_\_\_
43. MDL study within last 12 months?  YES  NO  N/A
- Data can not be reported without a current IDOC/CDOC, LOD or LOQ.**
- Additional Comments:  YES  NO

#1: Clean



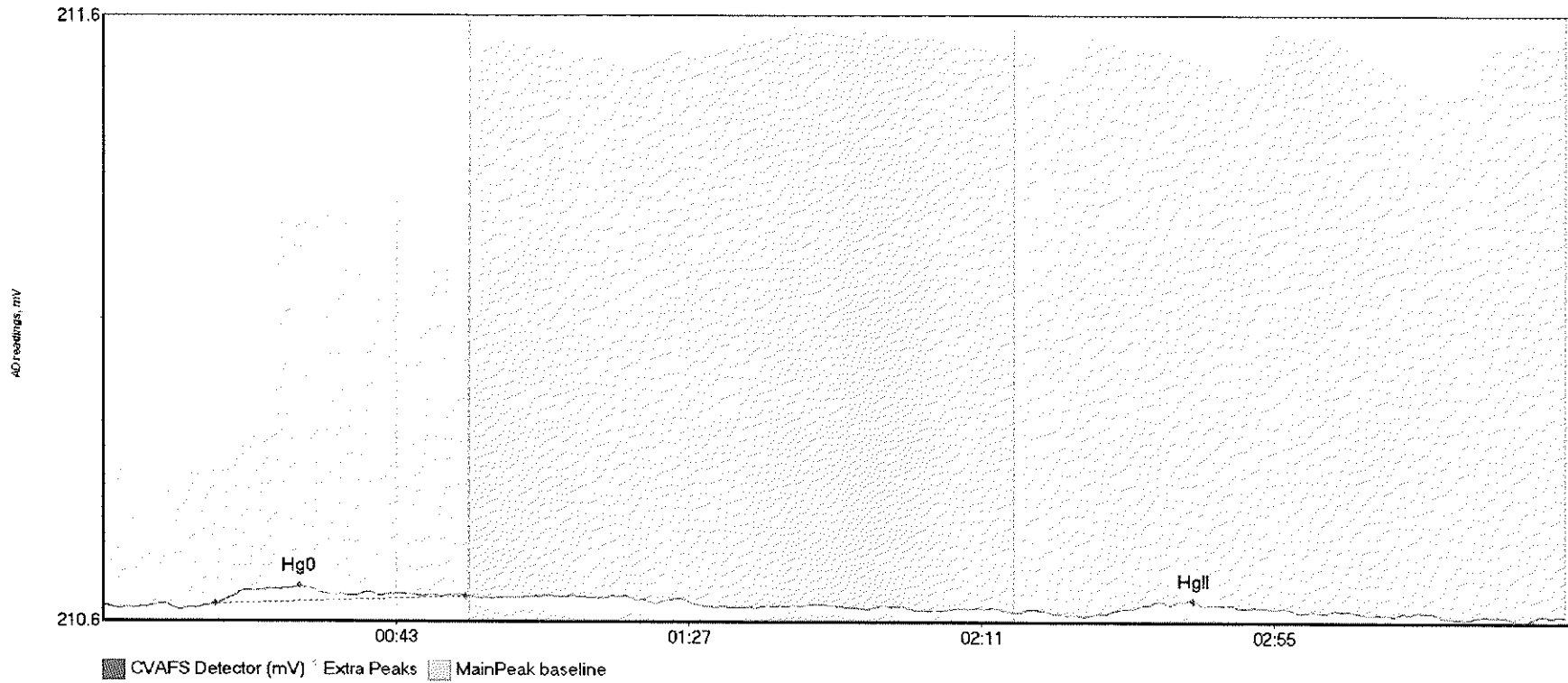
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
Clean MeHg	0.356	124.6	135.2	210.73	210.75	133.1	0.015	OK	210.7893	0.00	-0.02	
Clean HgII	2.790	146.0	219.8	210.75	210.82	218.4	0.074	CT	210.7893	0.00	-0.02	017

#2: WS



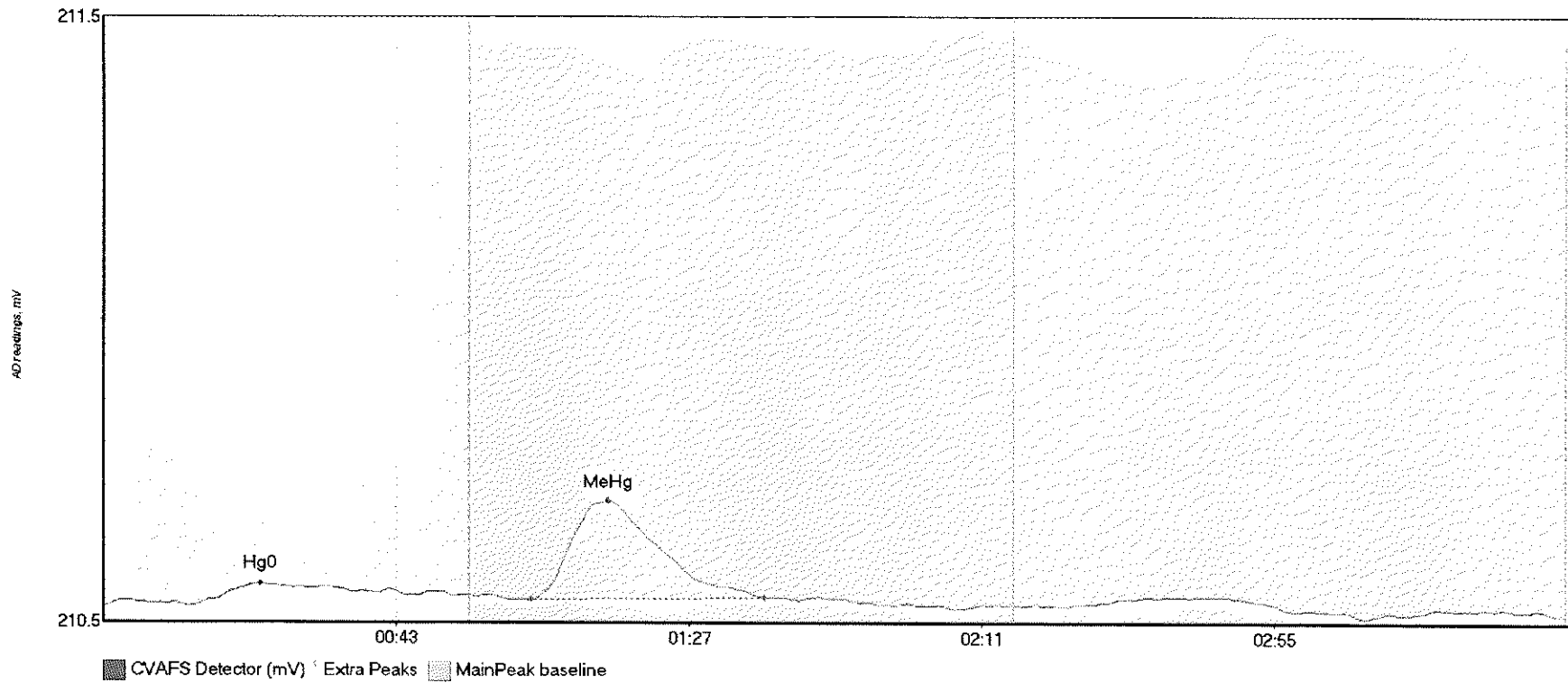
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	3.971	14.7	37.1	210.67	210.69	25.4	0.037	OK	210.6787	0.00	-0.01	
WS HgII	2.057	148.4	172.8	210.67	210.67	156.0	0.014	OK	210.6787	0.00	-0.01	017

#3: SEQ4BL1



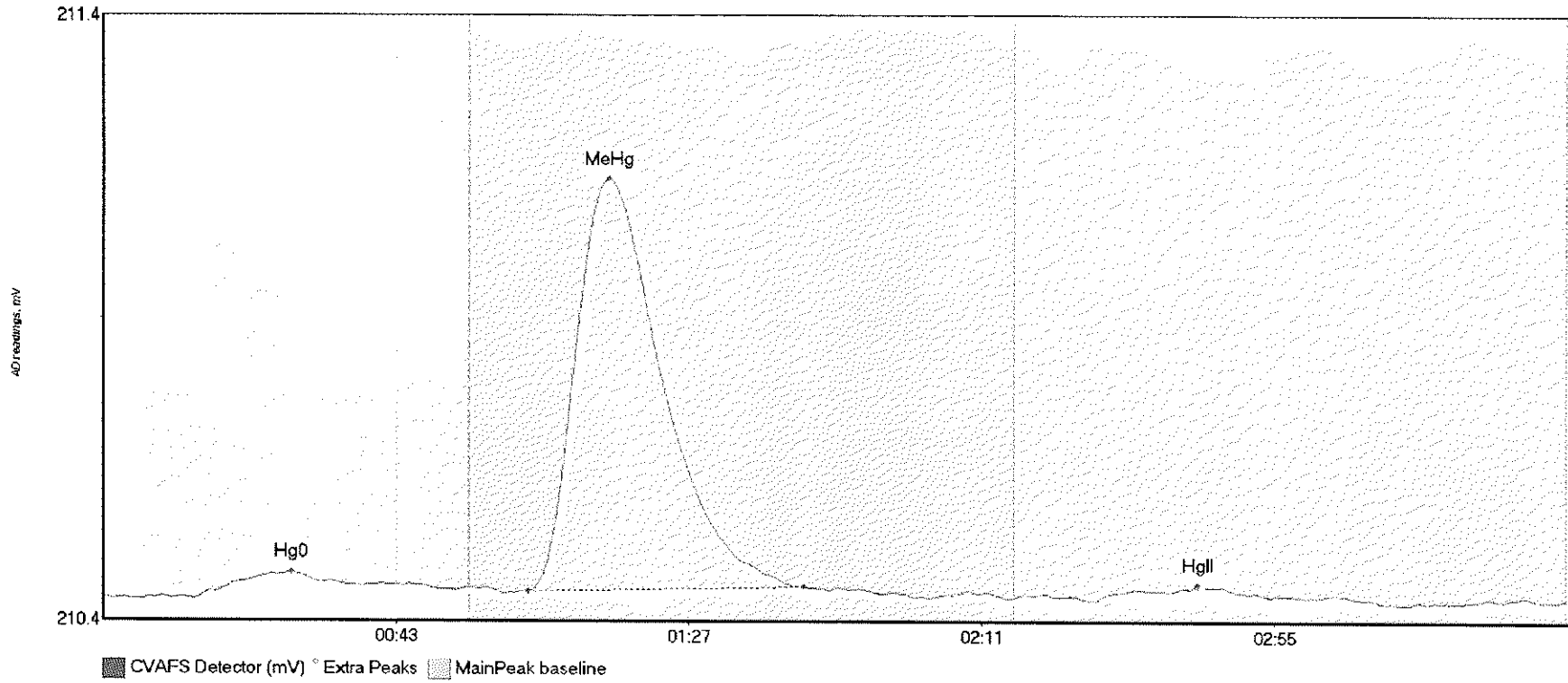
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-IBL1 Hg0	4.416	16.8	54.5	210.61	210.62	29.4	0.029	OK	210.6044	0.00	-0.01	
SEQ-IBL1 HgII	2.561	152.2	179.8	210.60	210.60	163.9	0.017	OK	210.6044	0.00	-0.01	017

#4: SEQ-CAL1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL1 Hg0	6.180	13.4	52.6	210.52	210.54	23.6	0.034	OK	210.5198	0.00	-0.02	
SEQ-CAL1 MeHg	24.166	64.3	99.3	210.53	210.53	75.9	0.163	OK	210.5198	0.00	-0.02	317

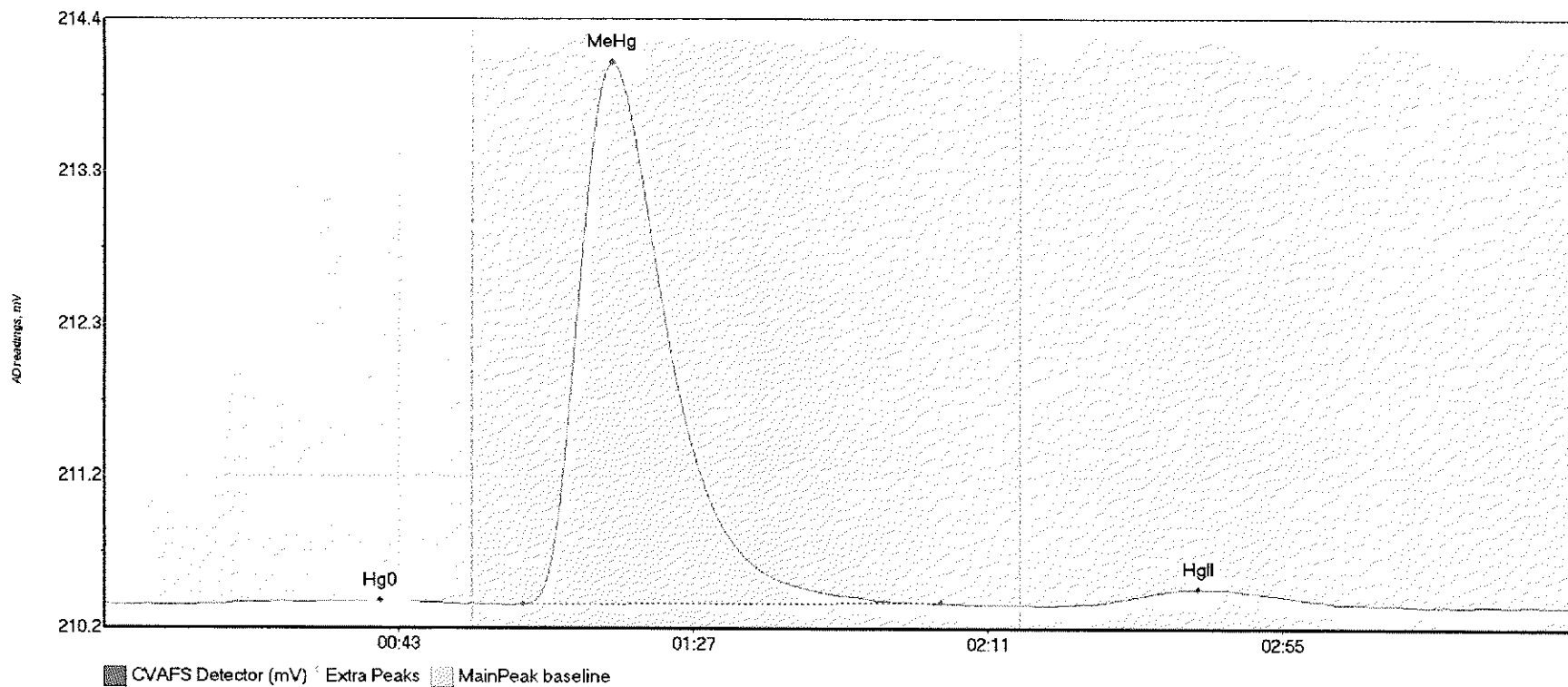
#5: SEQ-CAL2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL2 Hg0	7.081	13.9	53.0	210.44	210.45	28.3	0.043	OK	210.4421	0.00	0.00	
SEQ-CAL2 MeHg	102.598	63.9	105.3	210.45	210.46	76.0	0.681	OK	210.4421	0.00	0.00	
SEQ-CAL2 HgII	2.604	148.8	172.3	210.44	210.45	164.5	0.025	OK	210.4421	0.00	0.00	

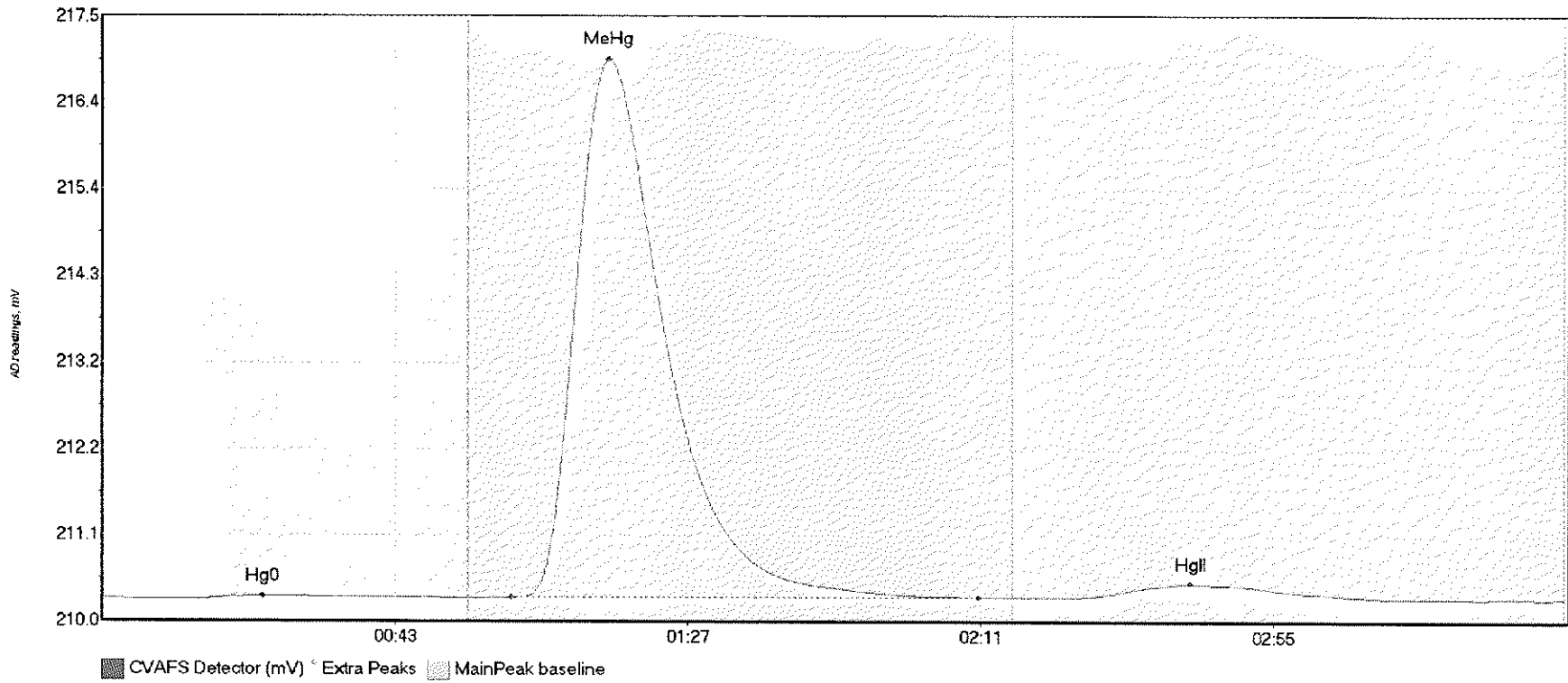


#6: SEQ-CAL3



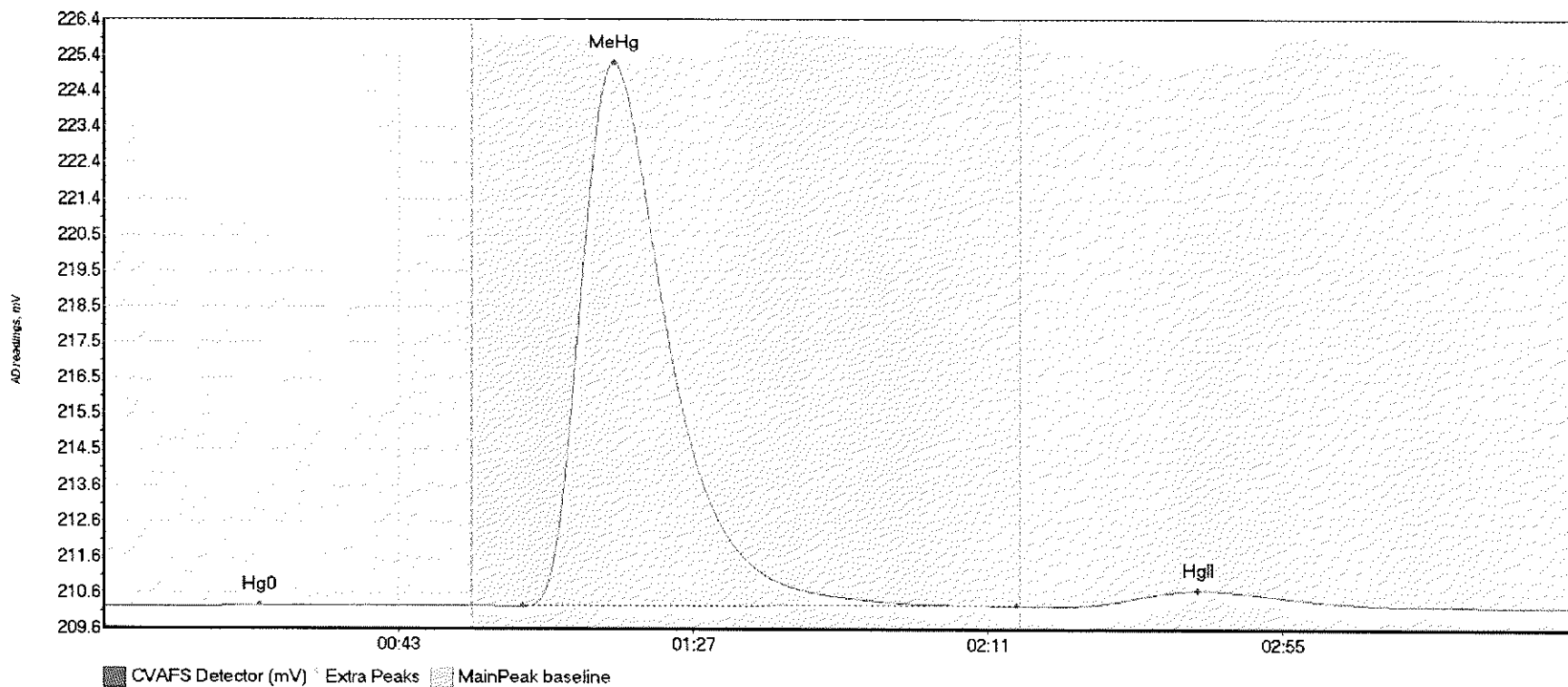
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL3 Hg0	5.297	17.6	53.6	210.37	210.37	41.3	0.023	OK	210.3699	0.00	-0.01	
SEQ-CAL3 MeHg	571.335	62.6	125.0	210.37	210.38	75.9	3.692	OK	210.3699	0.00	-0.01	
SEQ-CAL3 HgII	22.403	146.5	188.5	210.38	210.38	163.5	0.104	OK	210.3699	0.00	-0.01	

#7: SEQ-CAL4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL4 Hg0	7.301	14.5	54.3	210.29	210.31	24.2	0.039	OK	210.3021	0.00	0.00	
SEQ-CAL4 MeHg	1033.187	61.5	131.7	210.31	210.31	76.2	6.661	OK	210.3021	0.00	0.00	017
SEQ-CAL4 HgII	39.002	147.0	193.4	210.32	210.31	163.6	0.167	OK	210.3021	0.00	0.00	

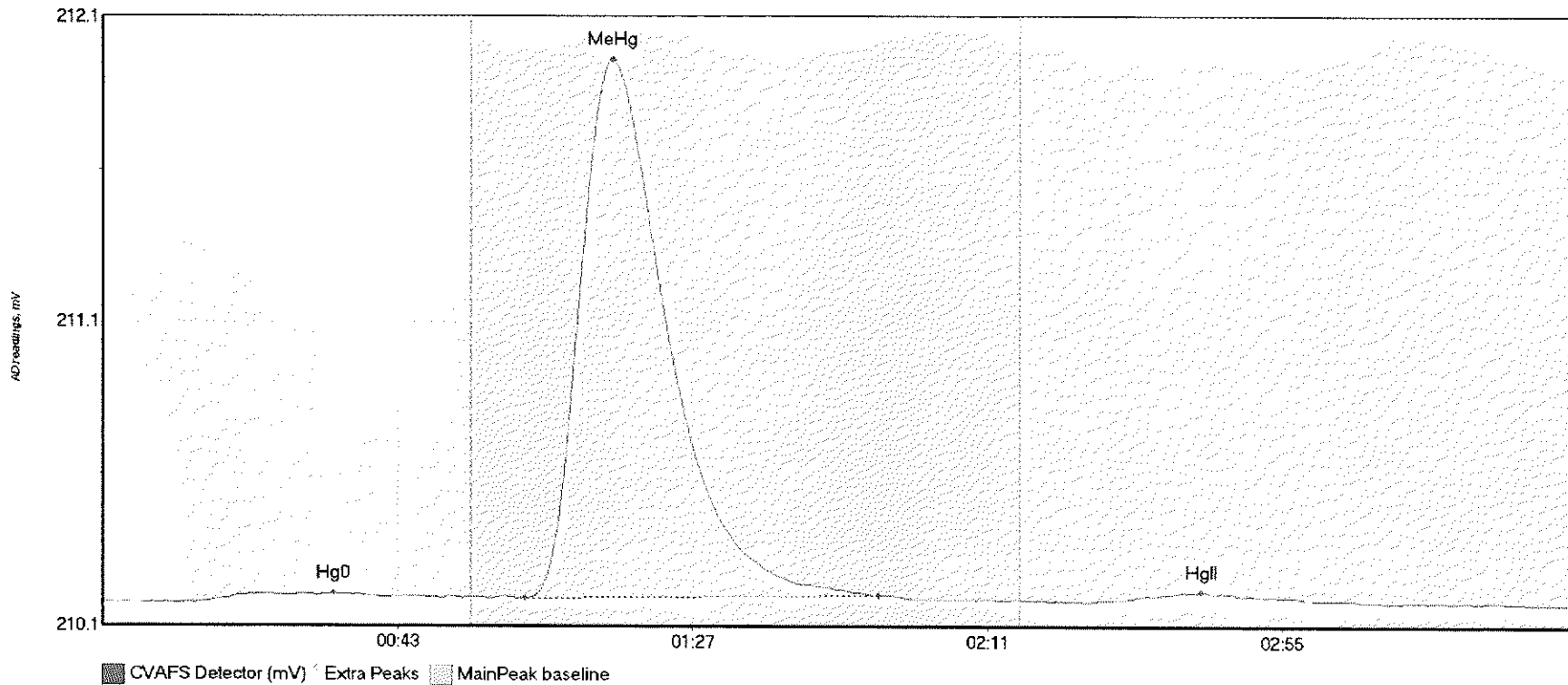
#8: SEQ-CAL5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL5 Hg0	8.012	12.5	53.1	210.22	210.24	23.3	0.050	OK	210.2244	0.00	0.00	
SEQ-CAL5 MeHg	2288.585	62.6	136.3	210.24	210.27	76.1	14.943	OK	210.2244	0.00	0.00	
SEQ-CAL5 HgII	99.949	143.9	192.8	210.26	210.26	163.5	0.425	OK	210.2244	0.00	0.00	

017

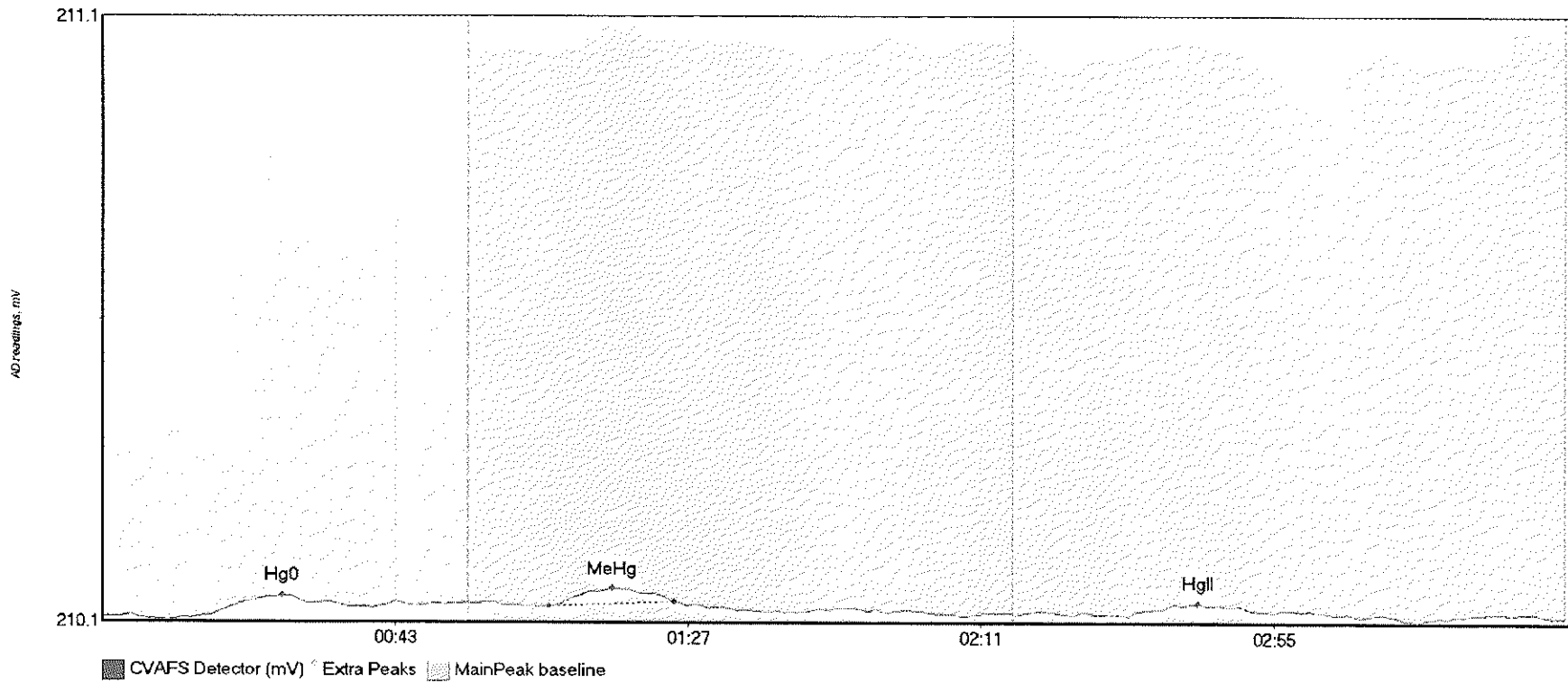
#9 SEQ-ICV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICV1 Hg0	4.559	14.9	50.7	210.16	210.17	34.5	0.026	OK	210.1615	0.00	-0.01	
SEQ-ICV1 MeHg	263.737	63.0	115.9	210.17	210.18	76.1	1.745	OK	210.1615	0.00	-0.01	
SEQ-ICV1 HgII	3.287	152.1	179.5	210.17	210.17	164.1	0.024	OK	210.1615	0.00	-0.01	

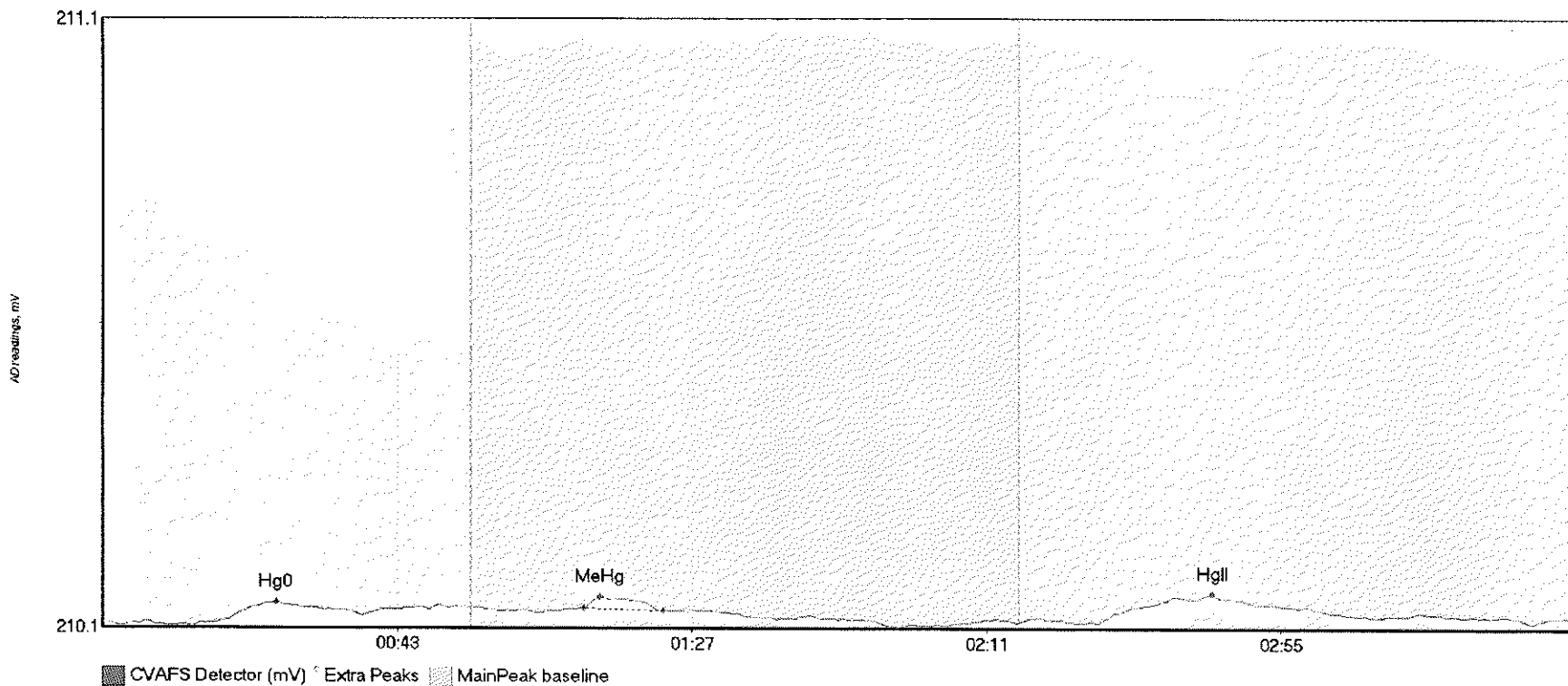
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#10: SEQ-ICB1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICB1 Hg0	3.407	16.1	40.6	210.11	210.13	27.0	0.033	OK	210.1124	0.00	0.00	
SEQ-ICB1 MeHg	2.999	67.1	85.9	210.13	210.14	76.6	0.030	OK	210.1124	0.00	0.00	
SEQ-ICB1 HgII	2.221	153.9	175.6	210.11	210.12	164.6	0.021	OK	210.1124	0.00	0.00	

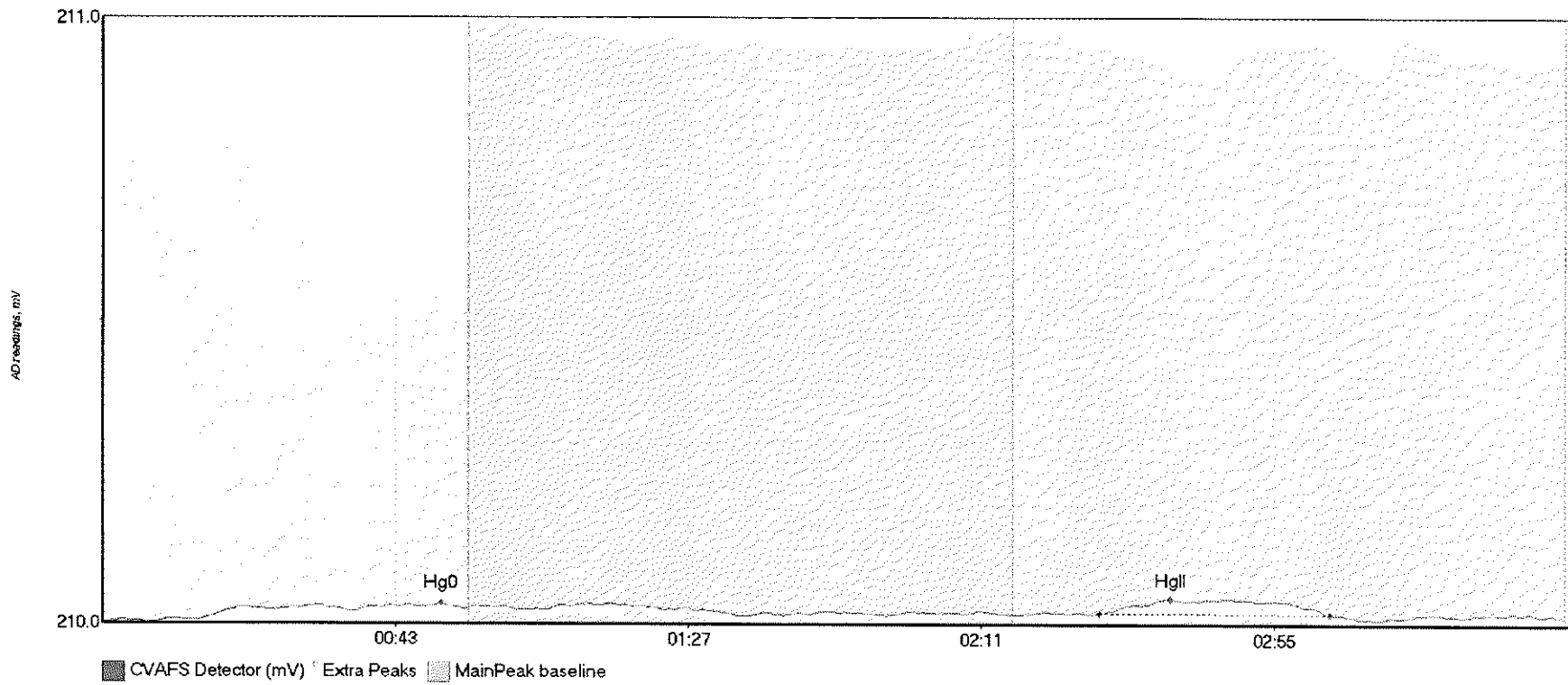
#11: F708549-BLK7



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BLK7 Hg	2.908	18.6	38.7	210.08	210.09	25.8	0.028	OK	210.0758	0.00	0.01	
F708549-BLK7 Me	1.468	71.8	83.7	210.10	210.09	74.3	0.017	OK	210.0758	0.00	0.01	
F708549-BLK7 Hg	11.403	148.7	210.8	210.08	210.08	165.7	0.047	OK	210.0758	0.00	0.01	

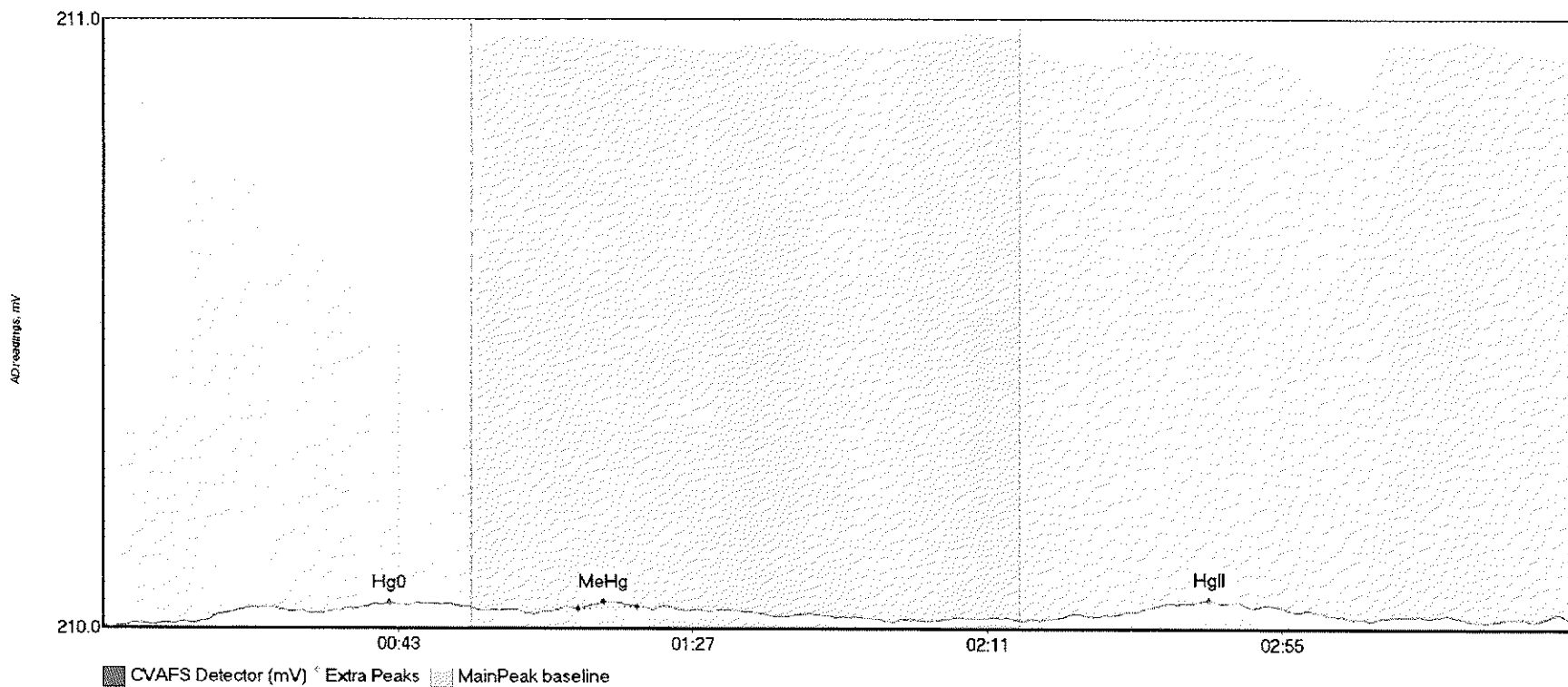
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#12: F708549-BLK8



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BLK8 Hg	4.160	14.3	54.2	210.05	210.06	50.8	0.027	OK	210.0433	0.00	0.01	
F708549-BLK8 Hg	6.337	149.9	184.4	210.06	210.06	160.4	0.026	OK	210.0433	0.00	0.01	017

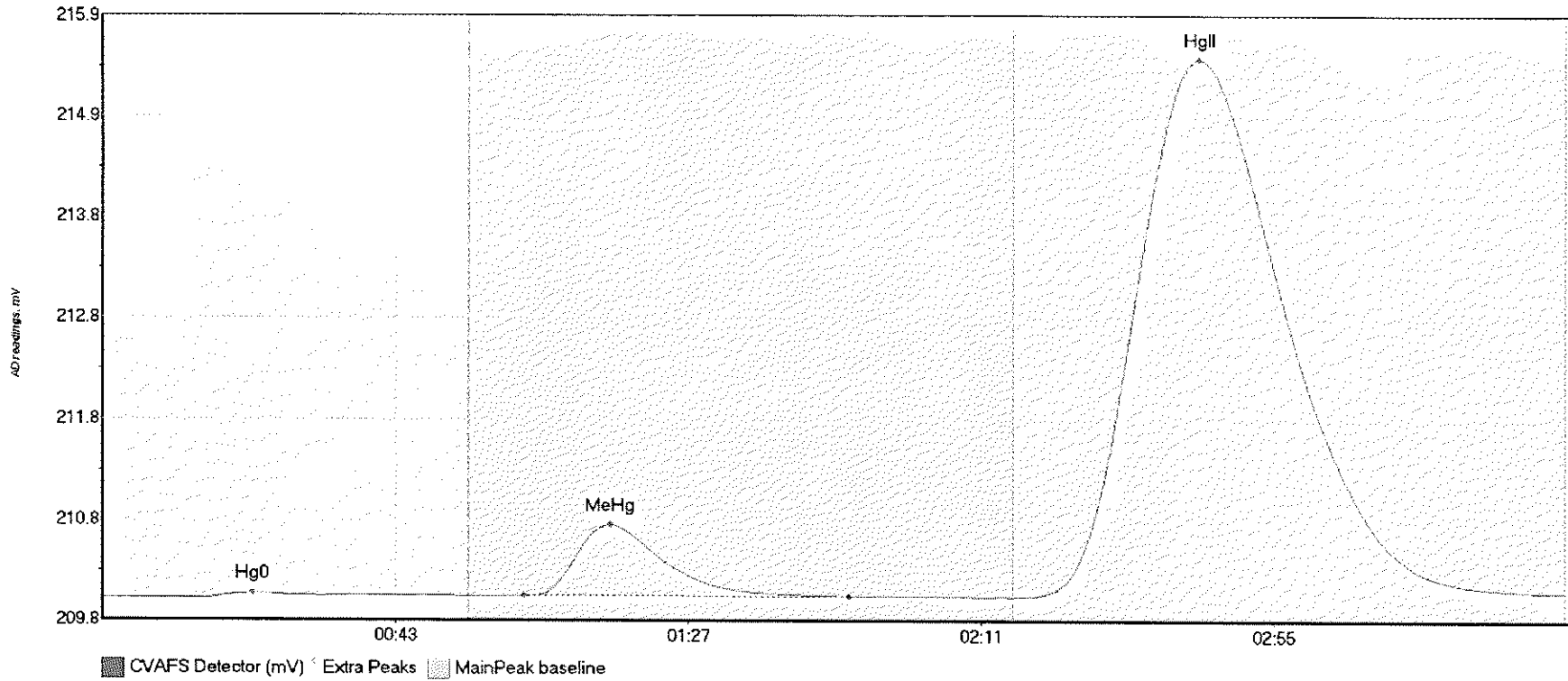
#13: F708549-BLK9



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708549-BLK9 Hg	4.224	13.3	55.0	210.02	210.05	42.7	0.033	CT	210.0170	0.00	0.01	
F708549-BLK9 Me	0.499	70.9	79.8	210.05	210.05	74.7	0.011	OK	210.0170	0.00	0.01	
F708549-BLK9 Hg	6.849	142.3	186.9	210.03	210.03	165.2	0.030	OK	210.0170	0.00	0.01	

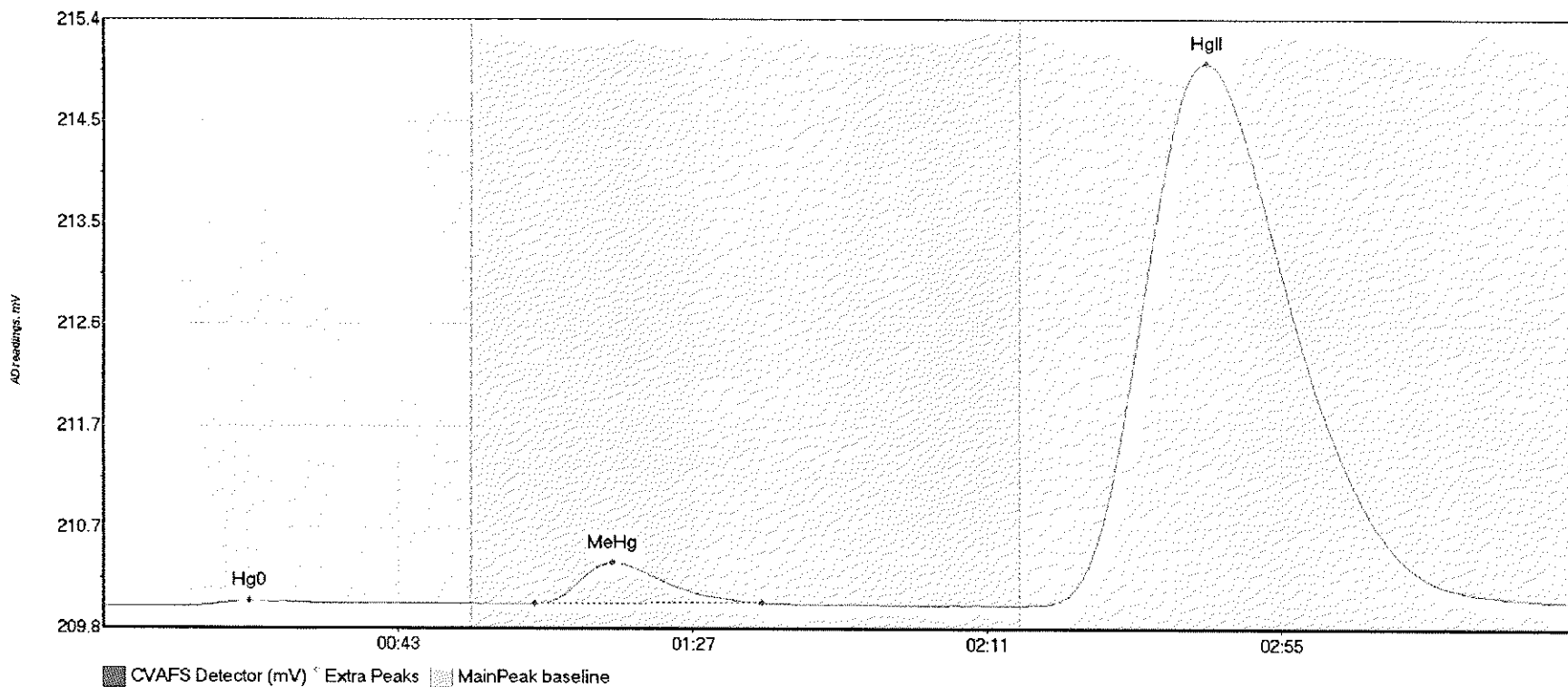


#14: 1708151-09RE3



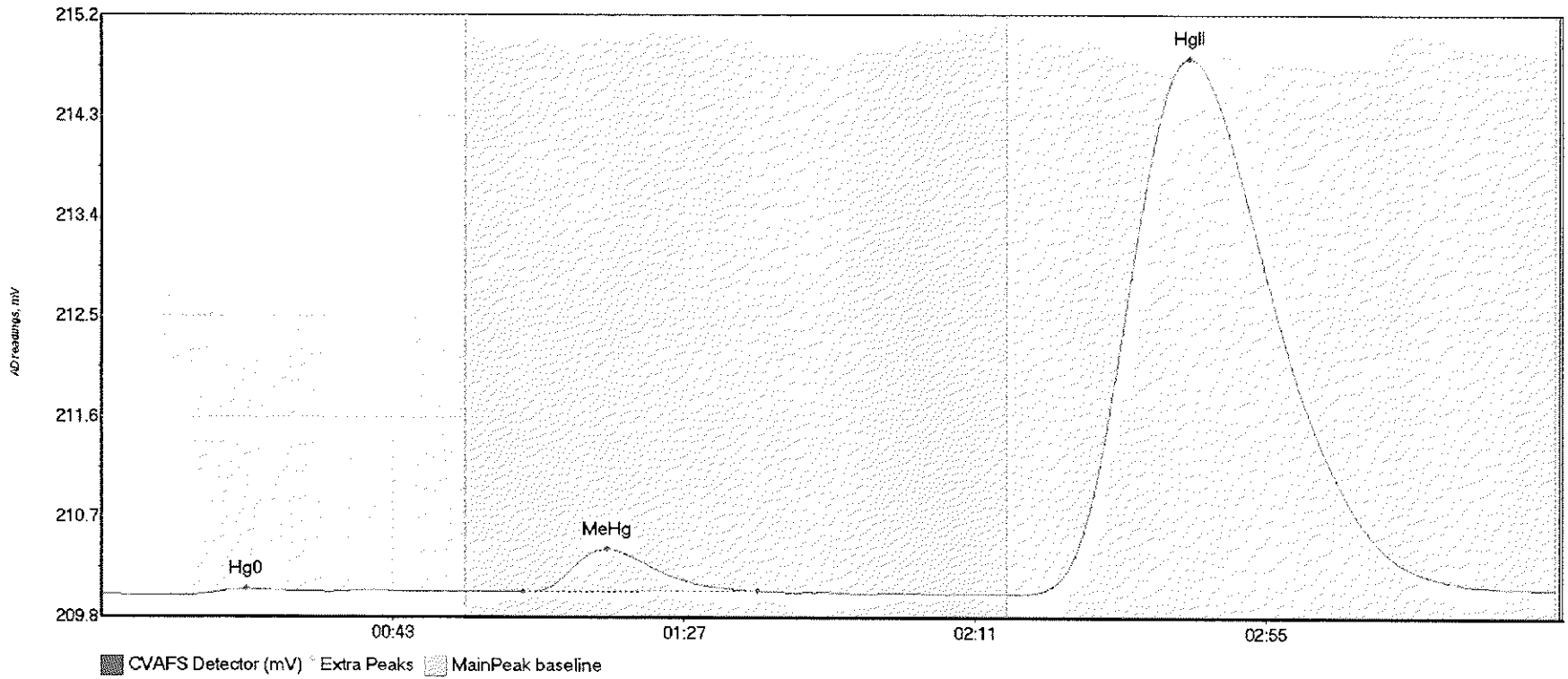
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-09RE3 H	8.092	14.3	55.0	210.00	210.03	22.6	0.050	CT	210.0100	0.00	0.06	
1708151-09RE3 M	109.208	63.3	112.1	210.03	210.02	76.3	0.722	OK	210.0100	0.00	0.06	
1708151-09RE3 H	1384.991	137.5	219.8	210.02	210.07	164.7	5.412	CT	210.0100	0.00	0.06	

#15: 1708151-10RE3



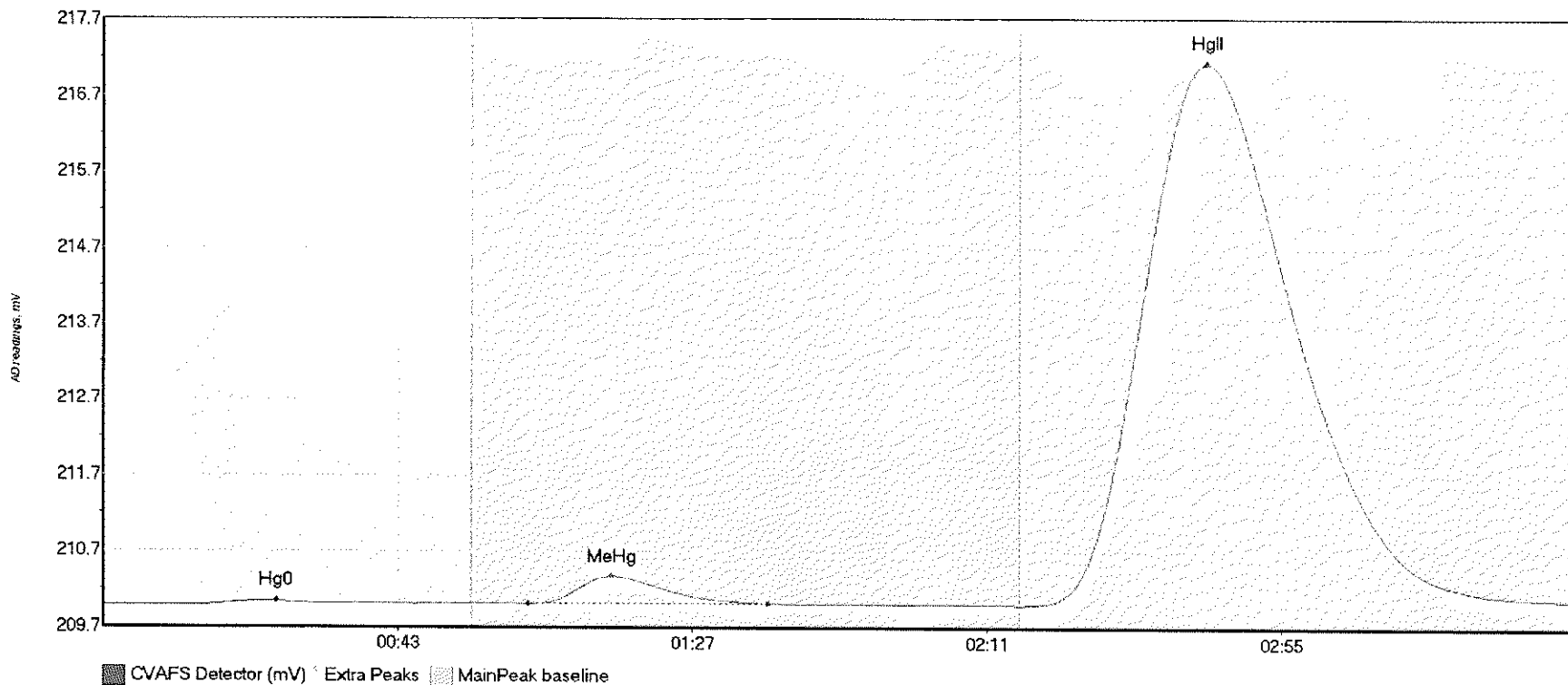
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-10RE3 H	6.325	13.3	45.5	209.99	210.02	21.9	0.052	OK	209.9930	0.00	0.05	
1708151-10RE3 M	54.197	64.4	98.3	210.01	210.03	76.0	0.385	OK	209.9930	0.00	0.05	
1708151-10RE3 H	1278.472	139.5	219.2	210.01	210.04	164.8	4.999	OK	209.9930	0.00	0.05	

#16: 1708151-11RE3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-11RE3 H	4.311	13.1	34.0	209.98	210.01	21.8	0.053	OK	209.9912	0.00	0.05	
1708151-11RE3 M	53.821	63.7	99.2	210.02	210.02	76.5	0.384	OK	209.9912	0.00	0.05	
1708151-11RE3 H	1225.030	140.2	219.8	210.00	210.04	164.5	4.829	CT	209.9912	0.00	0.05	

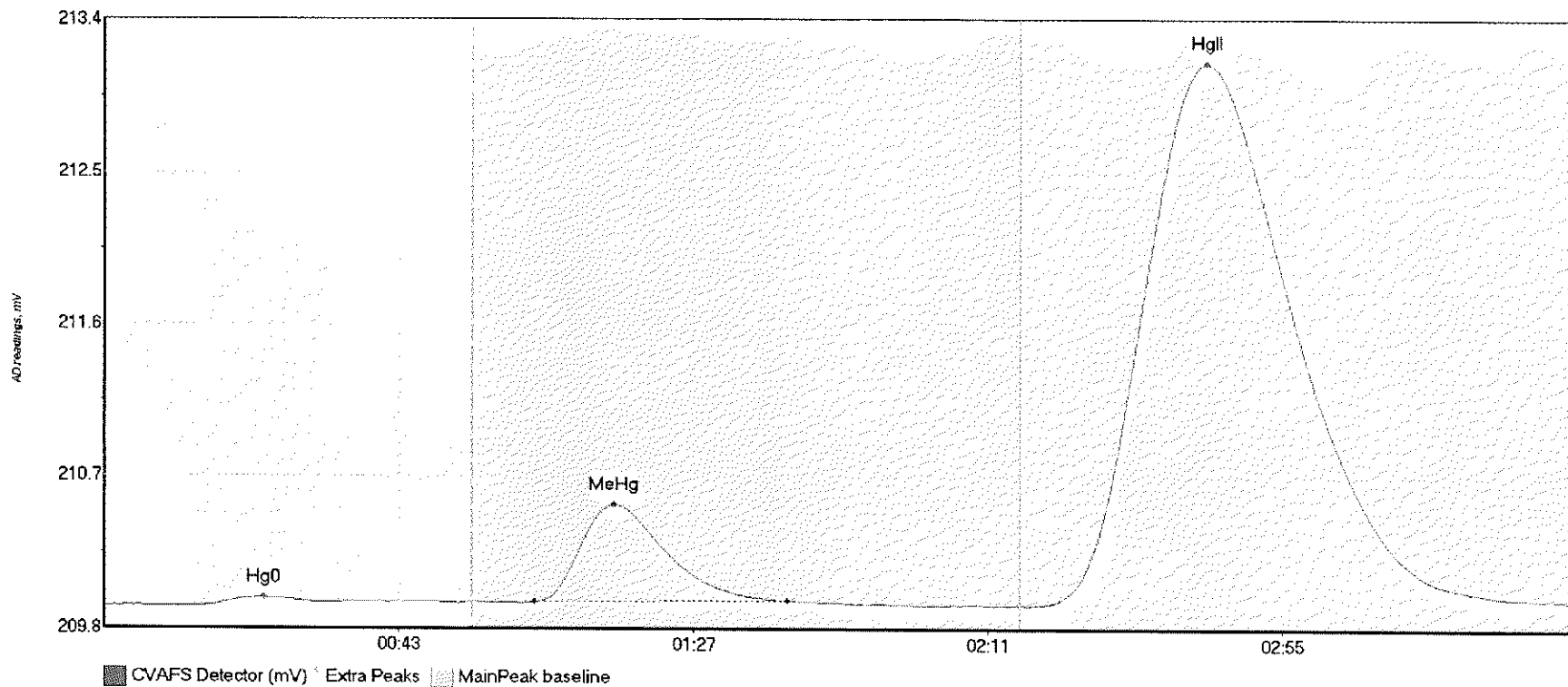
#17: 1708151-12RE3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-12RE3 H	7.271	13.5	46.4	209.98	210.00	25.9	0.054	OK	209.9790	0.00	0.08	
1708151-12RE3 M	52.311	63.5	99.3	210.00	210.00	76.0	0.363	OK	209.9790	0.00	0.08	
1708151-12RE3 H	1835.054	137.1	219.8	209.99	210.06	164.7	7.139	CT	209.9790	0.00	0.08	

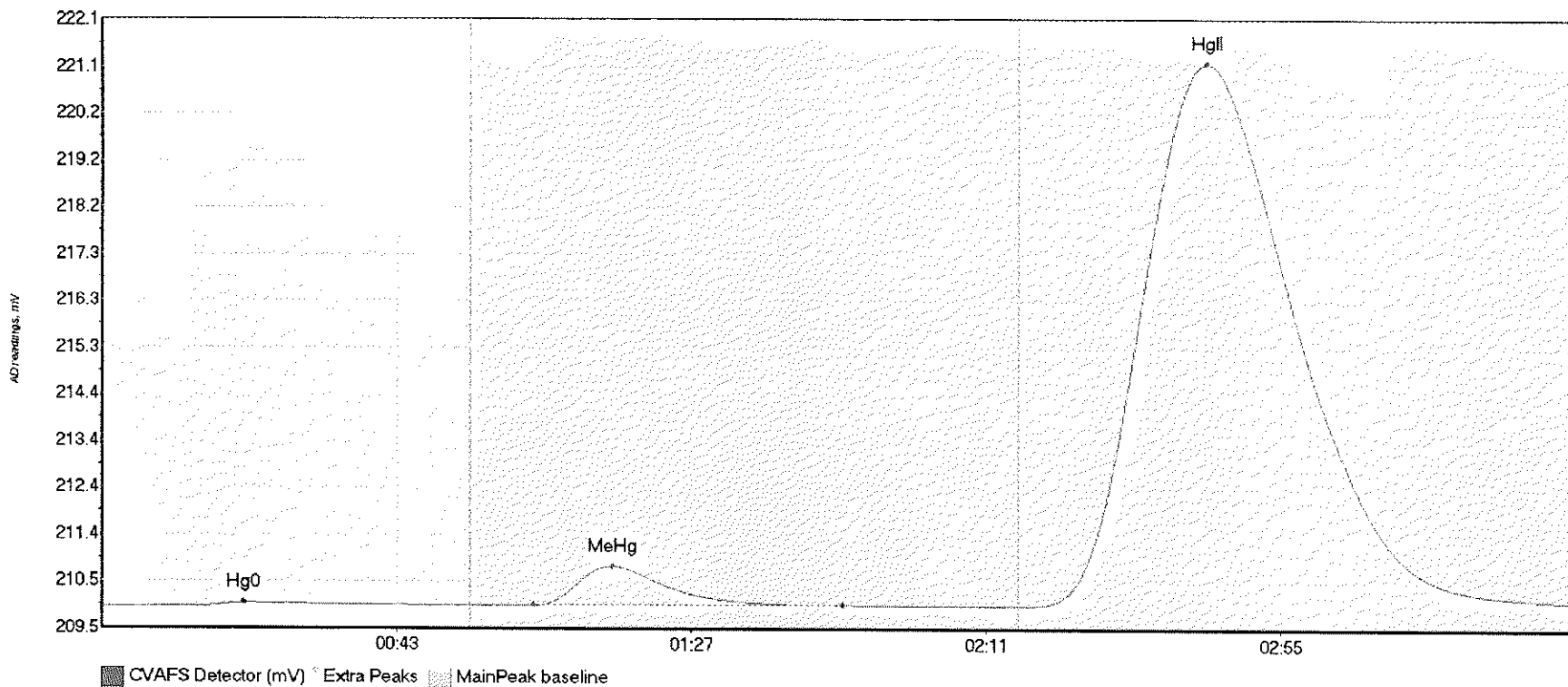
017

#18: 1708151-13RE3



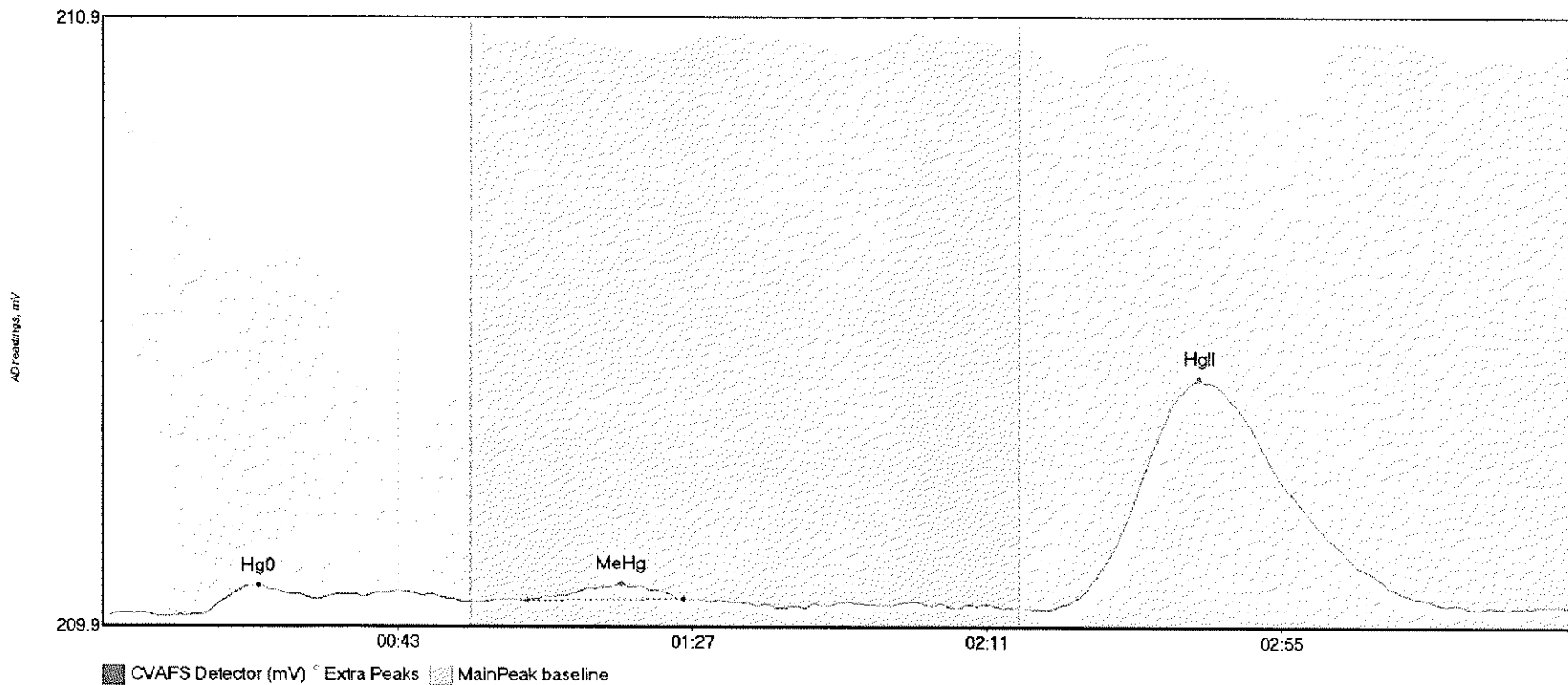
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-13RE3 H	7.438	14.3	52.9	209.97	209.99	23.8	0.049	OK	209.9730	0.00	0.04	
1708151-13RE3 M	82.374	64.3	102.0	210.00	210.01	76.1	0.573	OK	209.9730	0.00	0.04	
1708151-13RE3 H	809.133	140.0	219.4	209.99	210.01	164.6	3.168	OK	209.9730	0.00	0.04	

#19: 1708151-14RE3



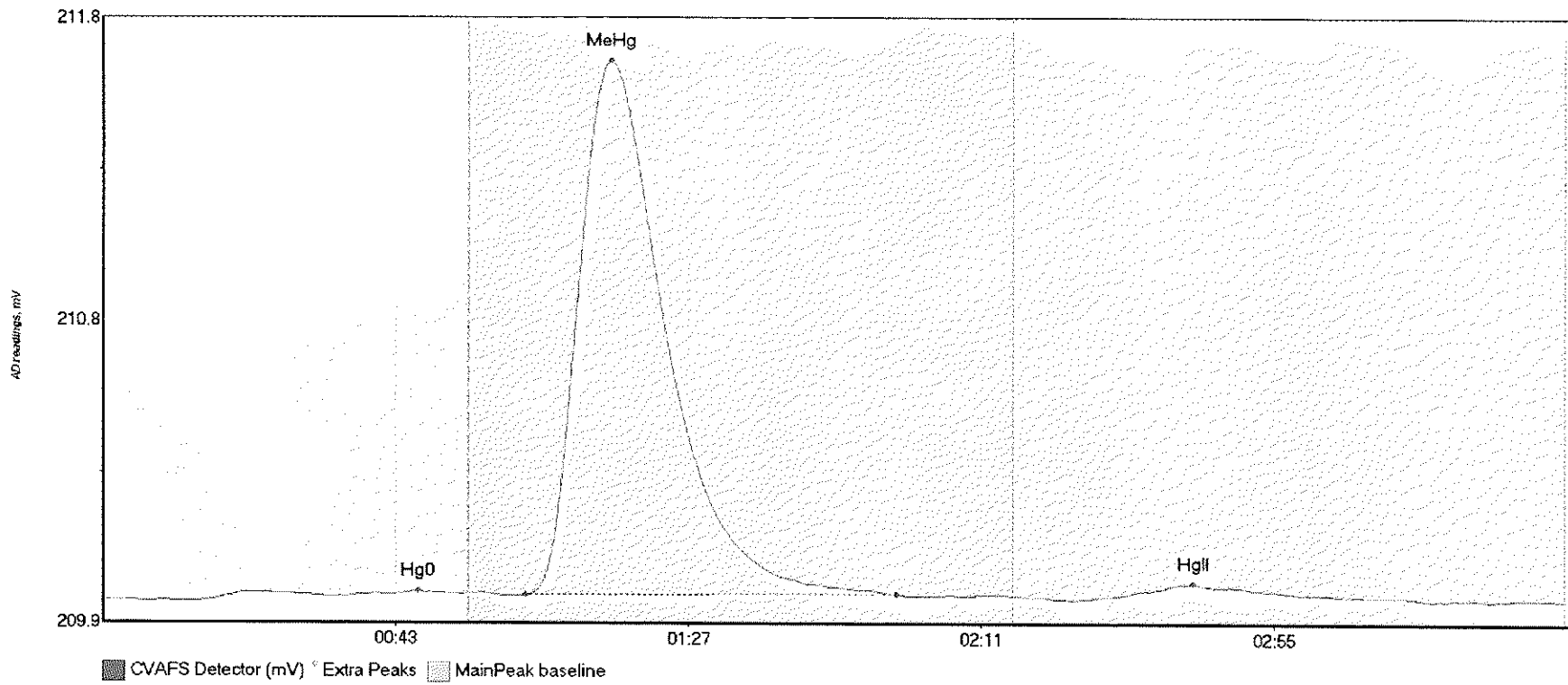
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-14RE3 H	11.146	11.5	49.5	209.97	209.99	21.2	0.075	OK	209.9631	0.00	0.12	
1708151-14RE3 M	121.536	64.5	110.6	209.99	210.00	76.3	0.805	OK	209.9631	0.00	0.12	
1708151-14RE3 H	2905.370	136.8	219.8	209.99	210.09	164.9	11.210	CT	209.9631	0.00	0.12	

#20: 1708151-15RE3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-15RE3 H	8.473	14.5	55.0	209.97	209.99	23.3	0.047	CT	209.9646	0.00	0.01	
1708151-15RE3 M	3.260	63.4	86.7	209.99	209.99	77.4	0.027	OK	209.9646	0.00	0.01	
1708151-15RE3 H	95.178	141.4	204.4	209.97	209.98	163.7	0.380	OK	209.9646	0.00	0.01	

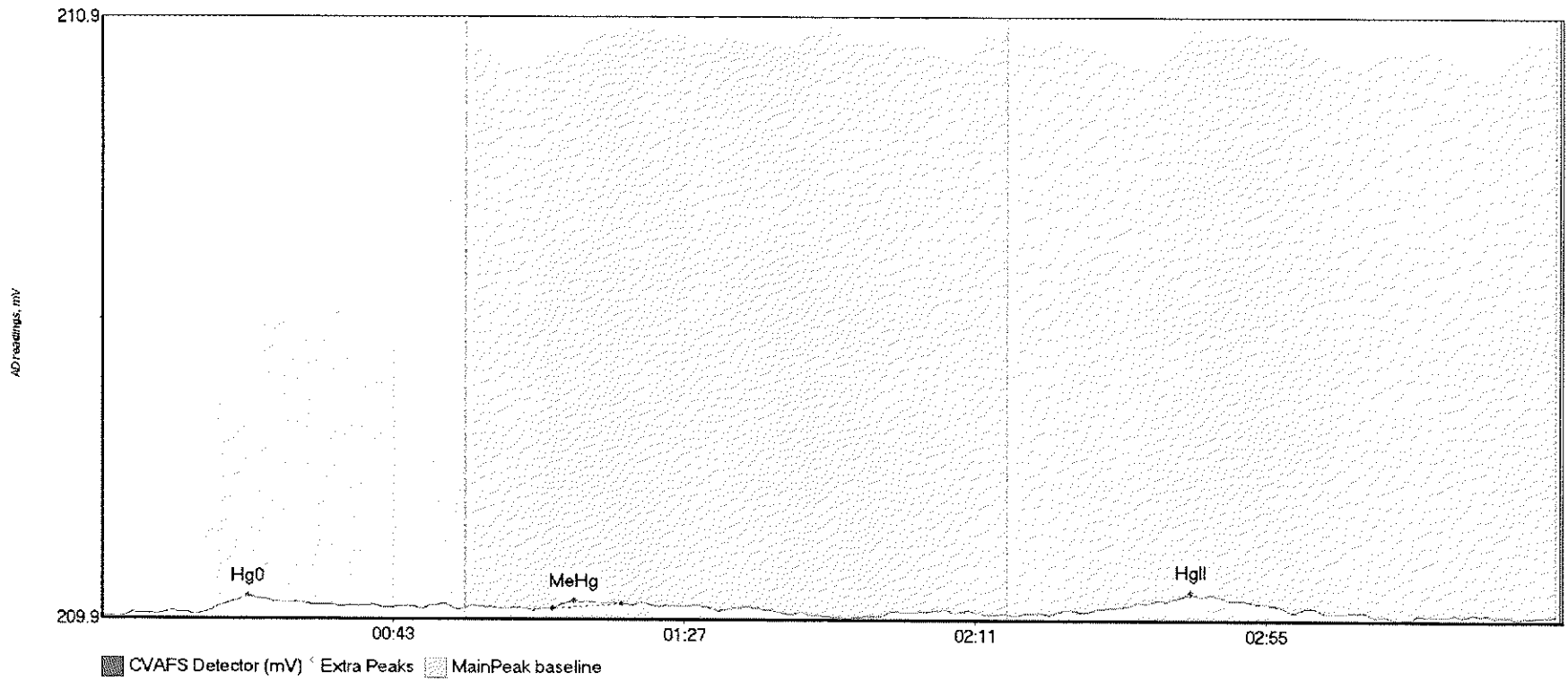
#21: SEQ-CCV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0	3.816	14.4	53.7	209.97	209.99	47.5	0.029	OK	209.9703	0.00	0.00	
SEQ-CCV1 MeHg	251.438	63.6	119.3	209.99	209.99	76.5	1.657	OK	209.9703	0.00	0.00	017
SEQ-CCV1 HgII	5.815	151.4	182.0	209.98	209.99	163.9	0.041	OK	209.9703	0.00	0.00	

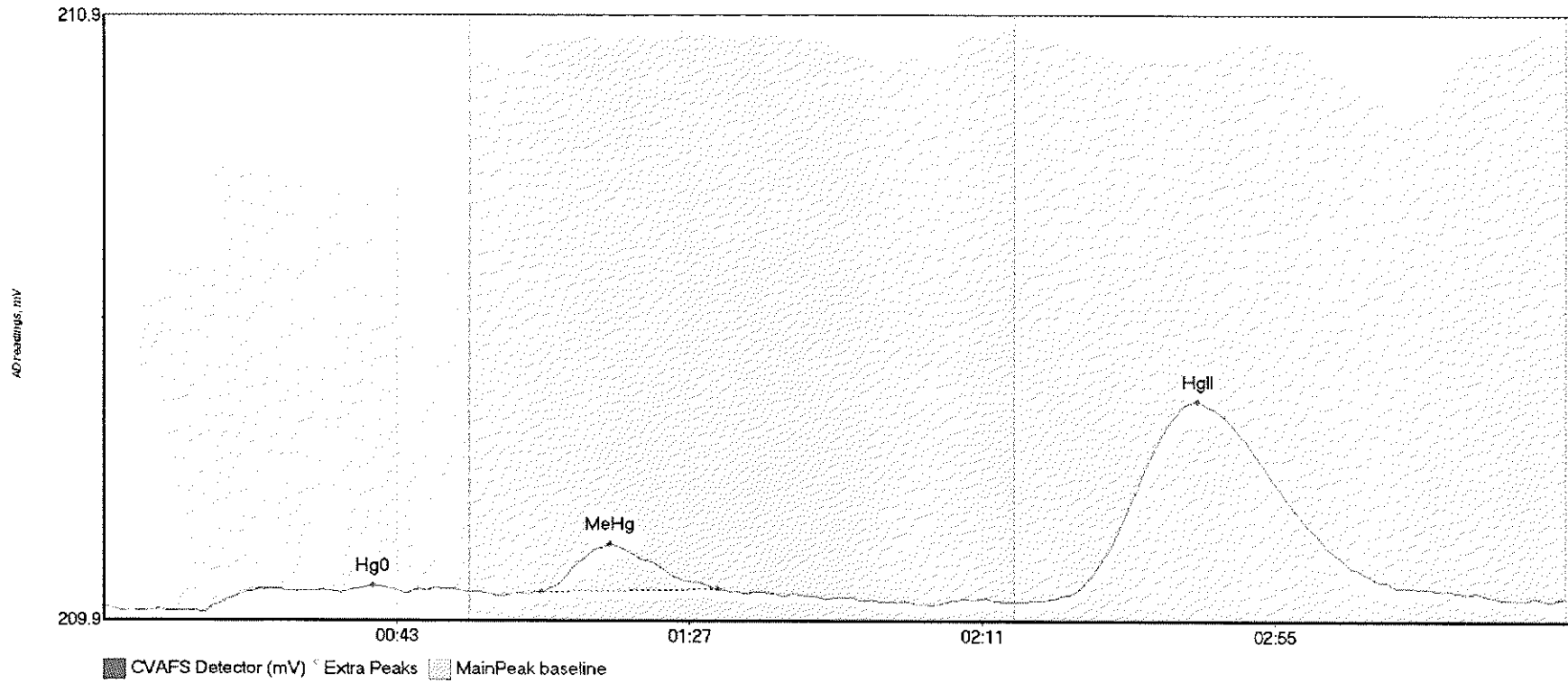


#22: SEQ-CCB1



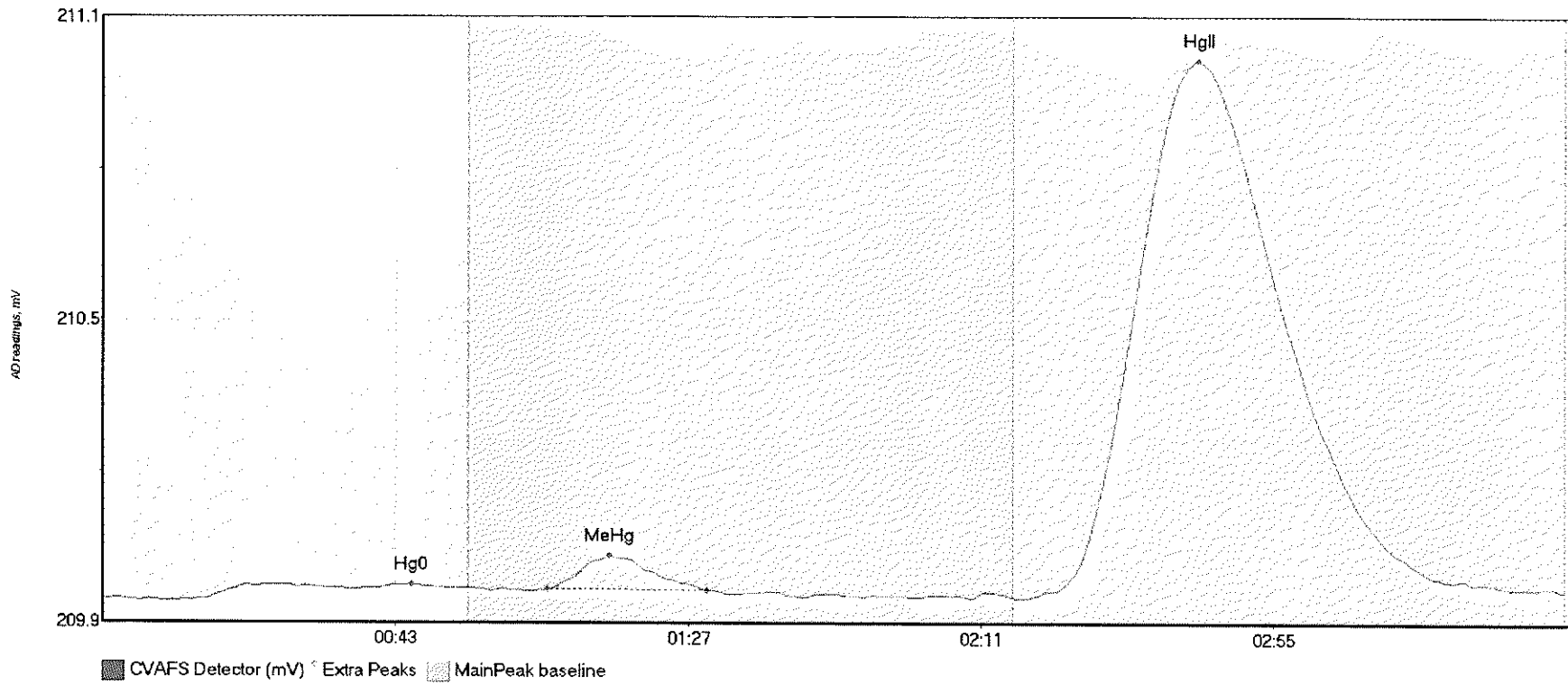
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB1 Hg0	4.716	13.9	54.0	209.96	209.97	22.1	0.030	OK	209.9532	0.00	0.00	
SEQ-CCB1 MeHg	0.623	68.1	78.6	209.97	209.97	71.4	0.013	OK	209.9532	0.00	0.00	
SEQ-CCB1 HgII	5.051	149.1	180.3	209.96	209.96	164.6	0.030	OK	209.9532	0.00	0.00	

#23: 1708151-16RE3



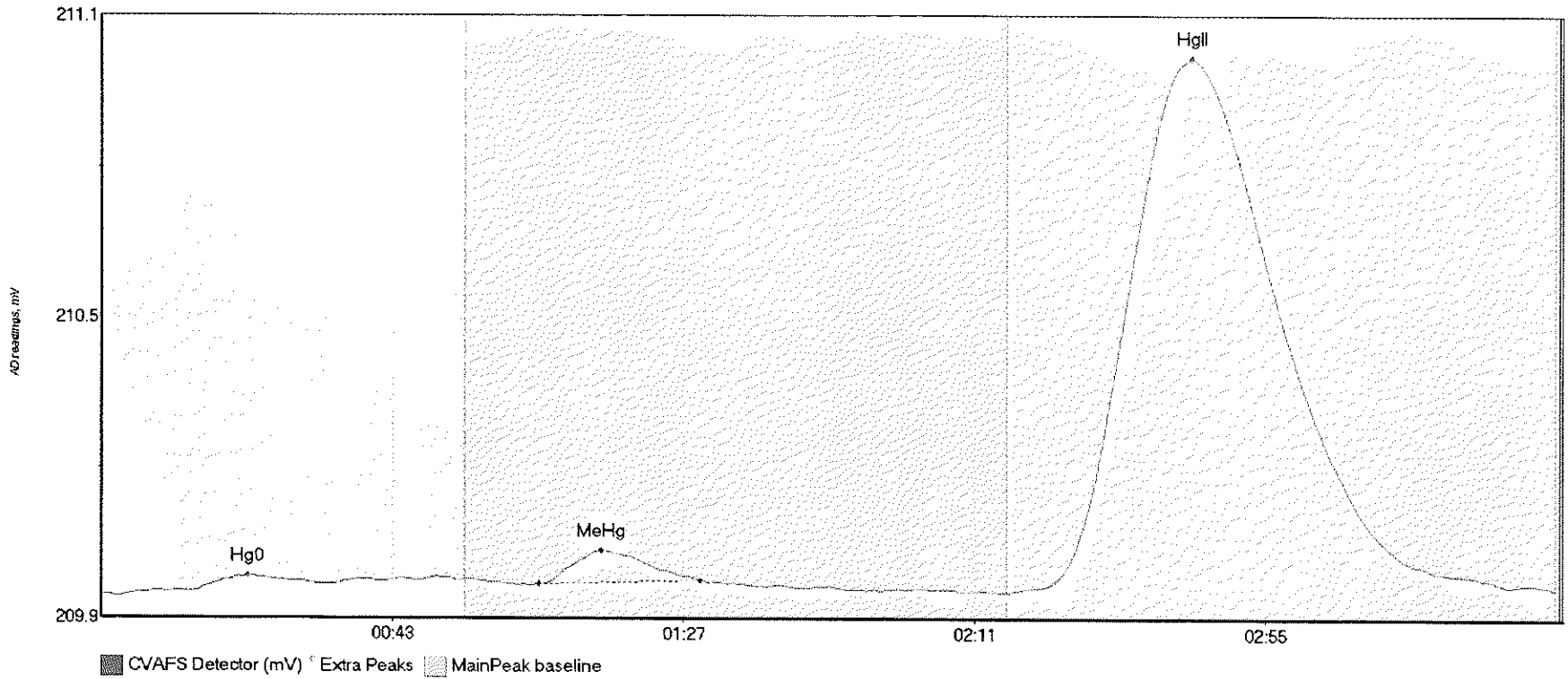
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-16RE3 H	5.230	15.0	45.5	209.93	209.96	40.5	0.045	OK	209.9385	0.00	0.02	
1708151-16RE3 M	9.978	65.9	92.3	209.96	209.97	76.2	0.079	OK	209.9385	0.00	0.02	
1708151-16RE3 H	82.948	142.6	212.1	209.95	209.95	164.4	0.329	OK	209.9385	0.00	0.02	

#24: 1708151-17RE3



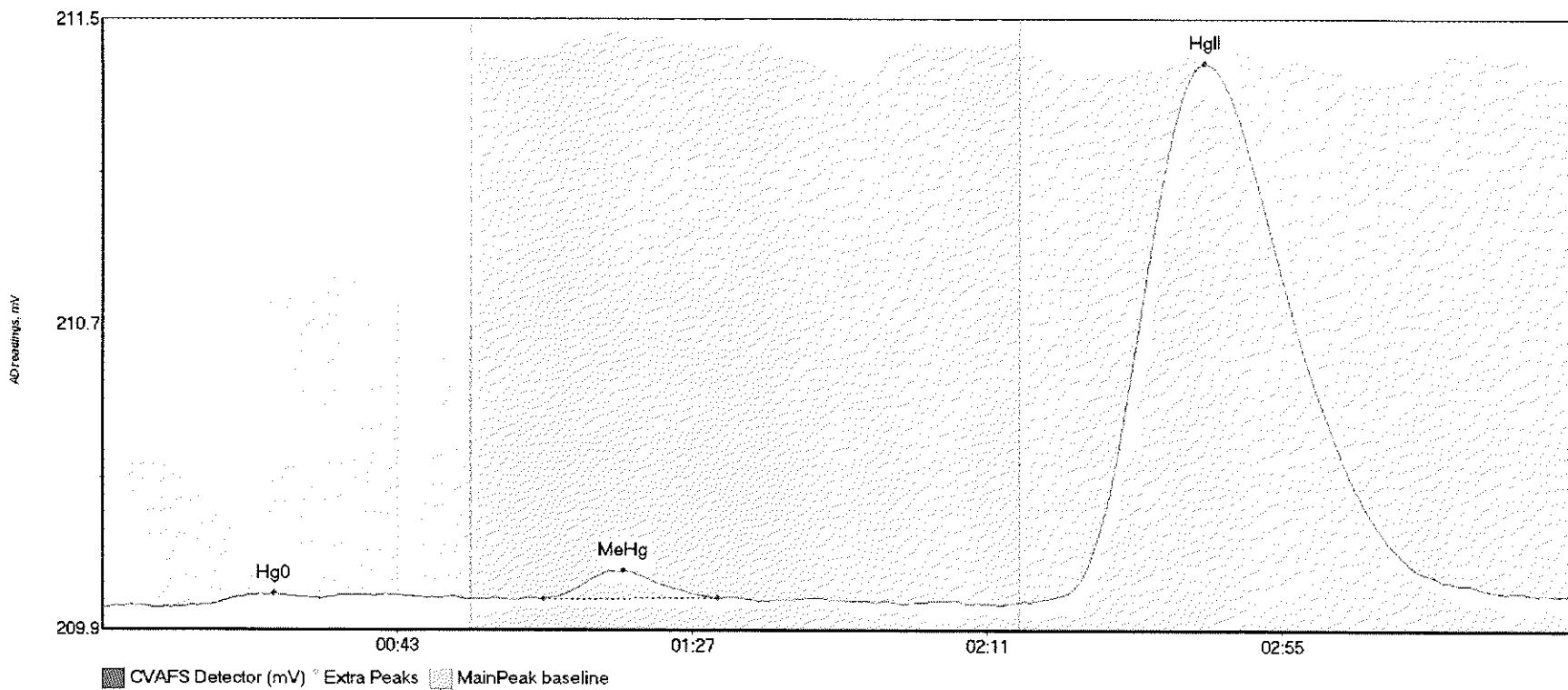
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-17RE3 H	4.469	15.6	54.1	209.94	209.96	46.4	0.027	OK	209.9359	0.00	0.02	
1708151-17RE3 M	7.892	66.8	90.8	209.95	209.95	76.2	0.066	OK	209.9359	0.00	0.02	
1708151-17RE3 H	266.242	139.1	219.7	209.94	209.95	164.7	1.055	OK	209.9359	0.00	0.02	

#25: 1708151-18RE3



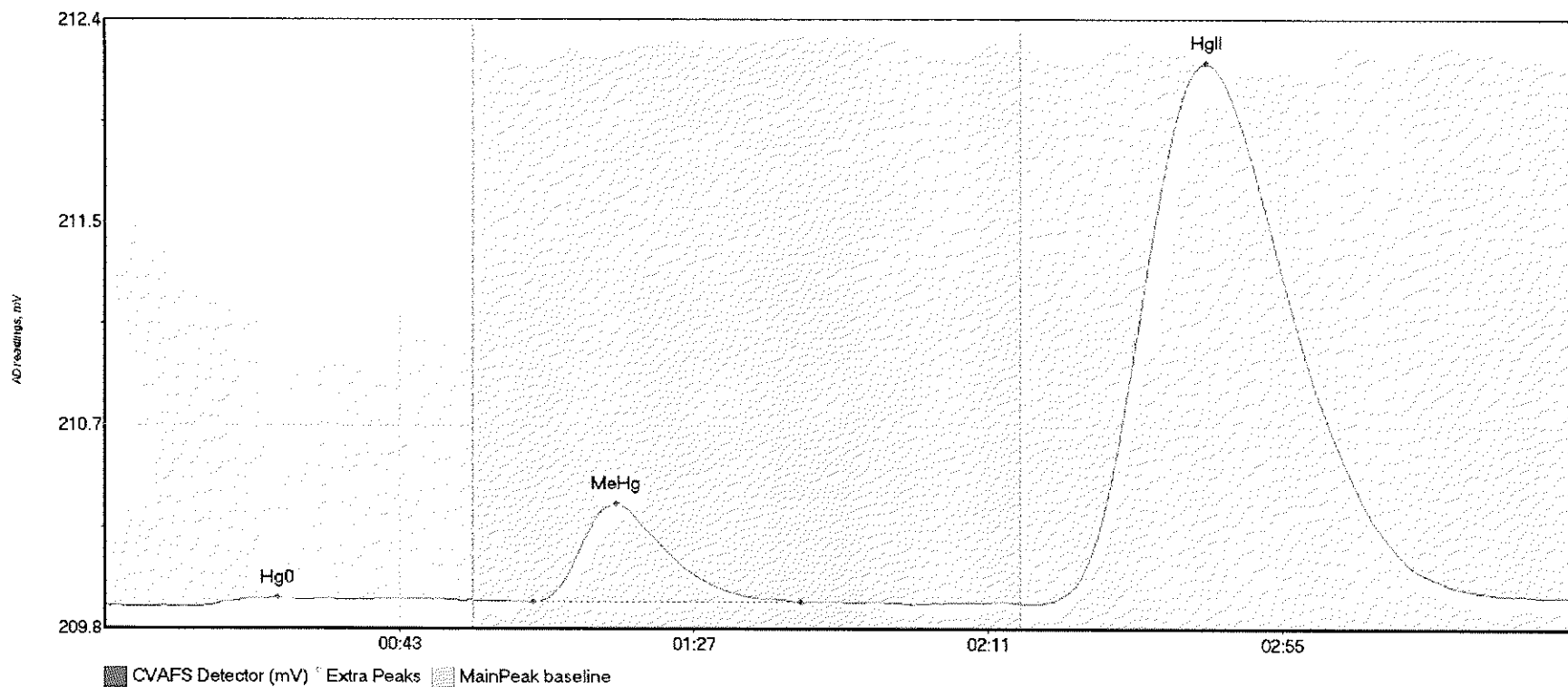
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-18RE3 H	2.341	6.4	32.8	209.93	209.95	22.2	0.032	OK	209.9250	0.00	0.01	
1708151-18RE3 M	8.092	66.1	90.5	209.95	209.95	75.6	0.068	OK	209.9250	0.00	0.01	
1708151-18RE3 H	279.793	138.5	219.8	209.93	209.94	164.9	1.072	CT	209.9250	0.00	0.01	

#26: 1708151-19RE3



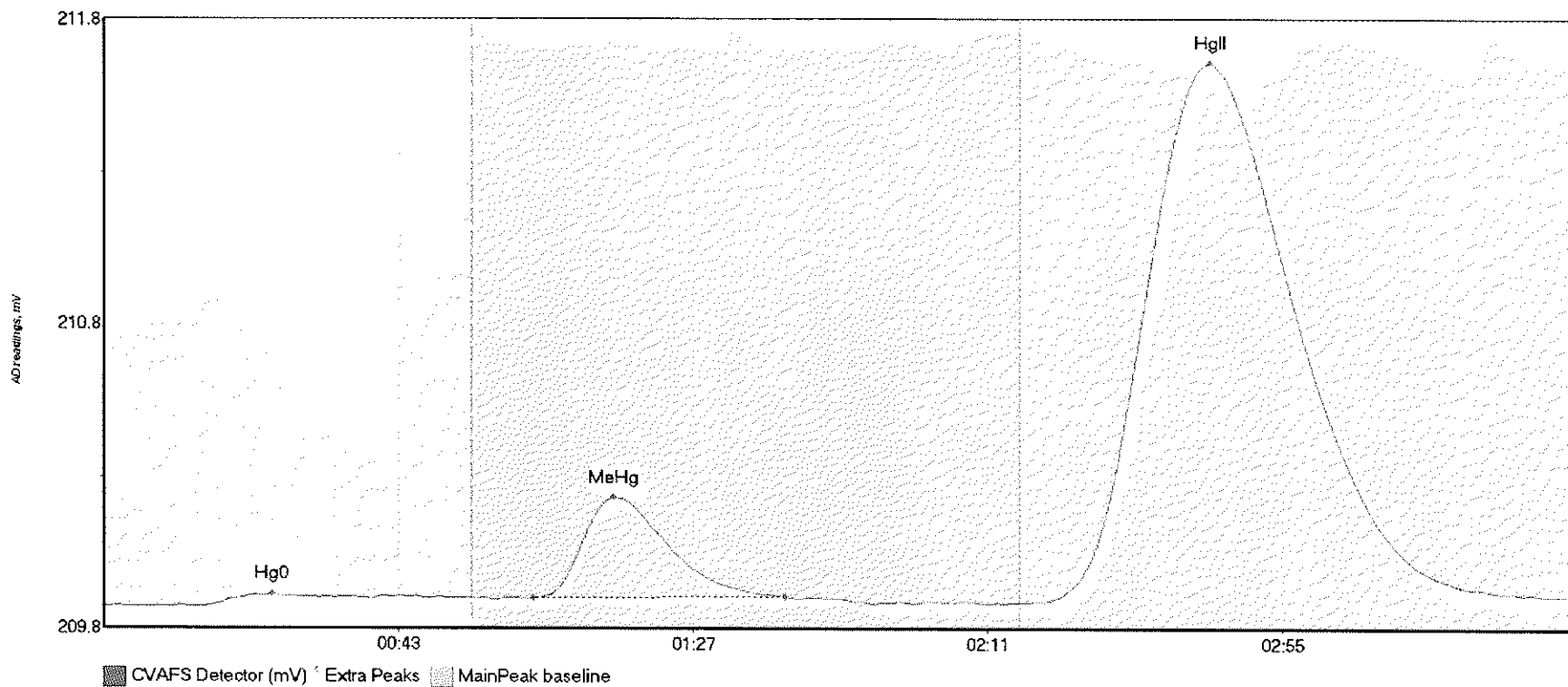
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-19RE3 H	5.766	12.1	54.3	209.91	209.94	25.6	0.033	OK	209.9128	0.00	0.03	
1708151-19RE3 M	9.294	65.8	91.7	209.93	209.94	77.7	0.075	OK	209.9128	0.00	0.03	
1708151-19RE3 H	360.522	138.4	218.6	209.93	209.94	164.5	1.420	OK	209.9128	0.00	0.03	

#27: 1708151-20RE3



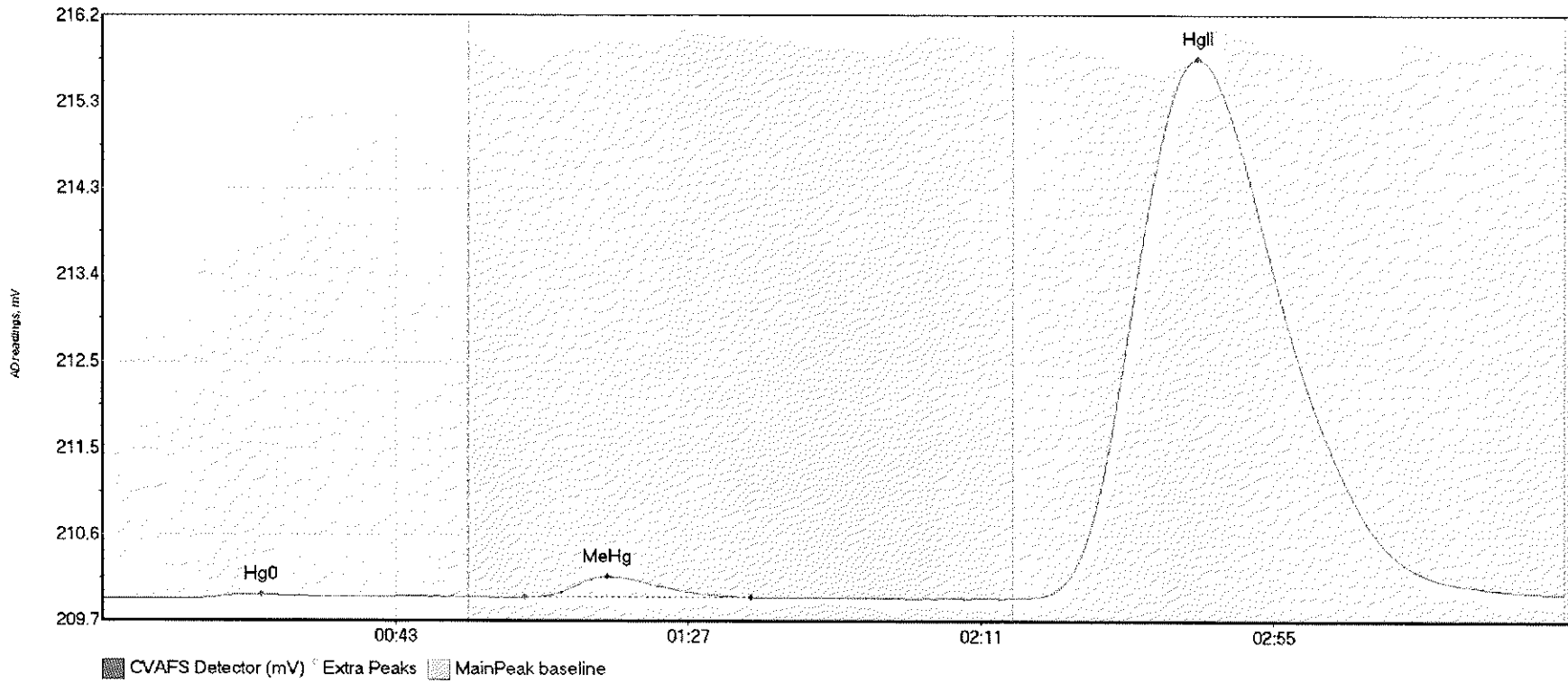
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-20RE3 H	6.301	14.4	53.6	209.92	209.94	25.9	0.037	OK	209.9192	0.00	0.04	
1708151-20RE3 M	61.226	64.0	104.0	209.93	209.93	76.5	0.414	OK	209.9192	0.00	0.04	
1708151-20RE3 H	583.491	139.5	215.5	209.93	209.96	164.6	2.276	OK	209.9192	0.00	0.04	

#28: 1708151-21RE3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-21RE3 H	3.564	15.2	40.1	209.92	209.94	25.2	0.036	OK	209.9171	0.00	0.03	
1708151-21RE3 M	45.743	64.1	101.7	209.94	209.95	76.1	0.317	OK	209.9171	0.00	0.03	
1708151-21RE3 H	432.298	140.8	219.8	209.93	209.95	165.2	1.692	CT	209.9171	0.00	0.03	

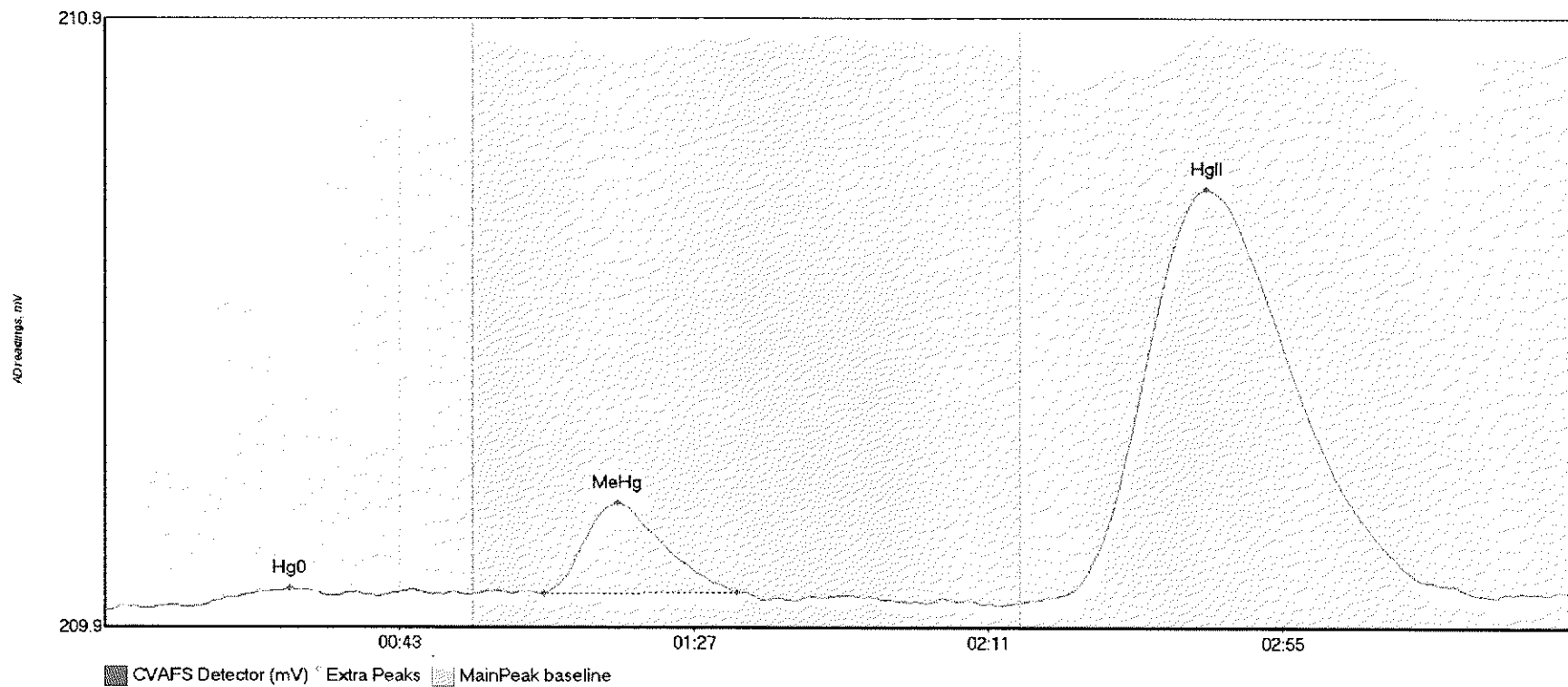
#29: 1708151-22RE3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-22RE3 H	3.799	13.8	32.6	209.93	209.95	23.8	0.047	OK	209.9314	0.00	0.06	
1708151-22RE3 M	32.328	63.5	97.5	209.94	209.94	75.9	0.226	OK	209.9314	0.00	0.06	
1708151-22RE3 H	1484.701	136.8	219.8	209.94	209.99	164.6	5.781	CT	209.9314	0.00	0.06	

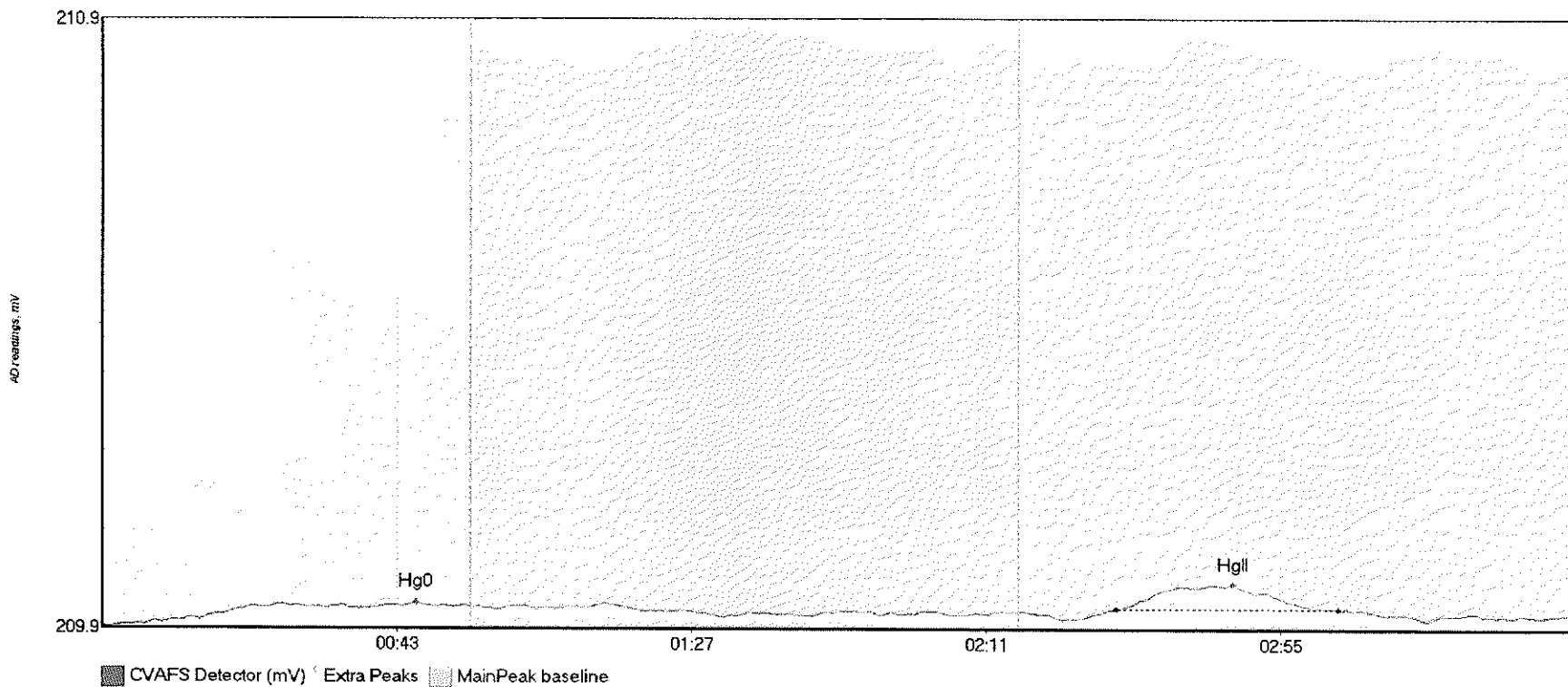


#30: 1708151-23RE3



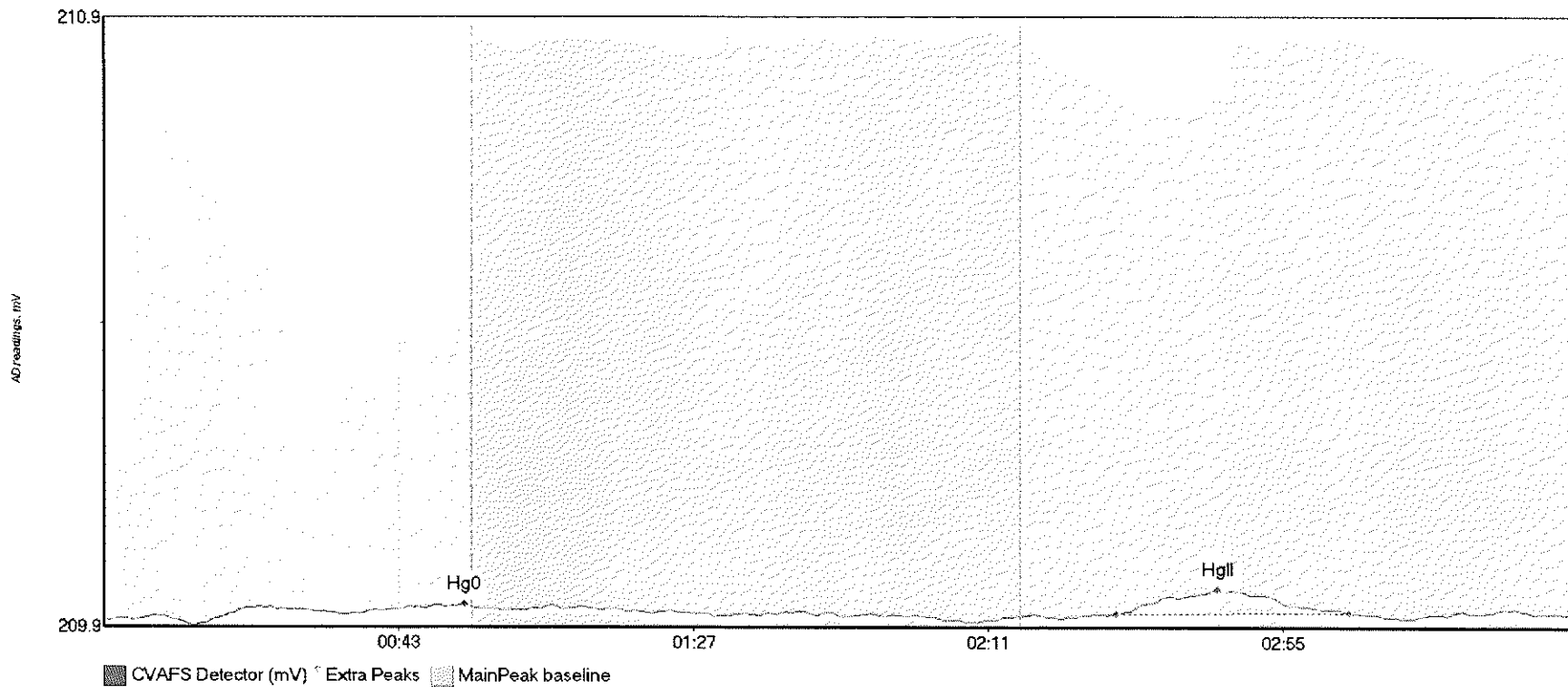
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708151-23RE3 H	2.961	6.7	40.9	209.93	209.95	27.6	0.032	OK	209.9251	0.00	0.03	
1708151-23RE3 M	20.168	65.6	94.4	209.95	209.95	76.6	0.150	OK	209.9251	0.00	0.03	
1708151-23RE3 H	172.111	139.4	208.1	209.94	209.95	164.6	0.676	OK	209.9251	0.00	0.03	

#31: F708539-BLK1



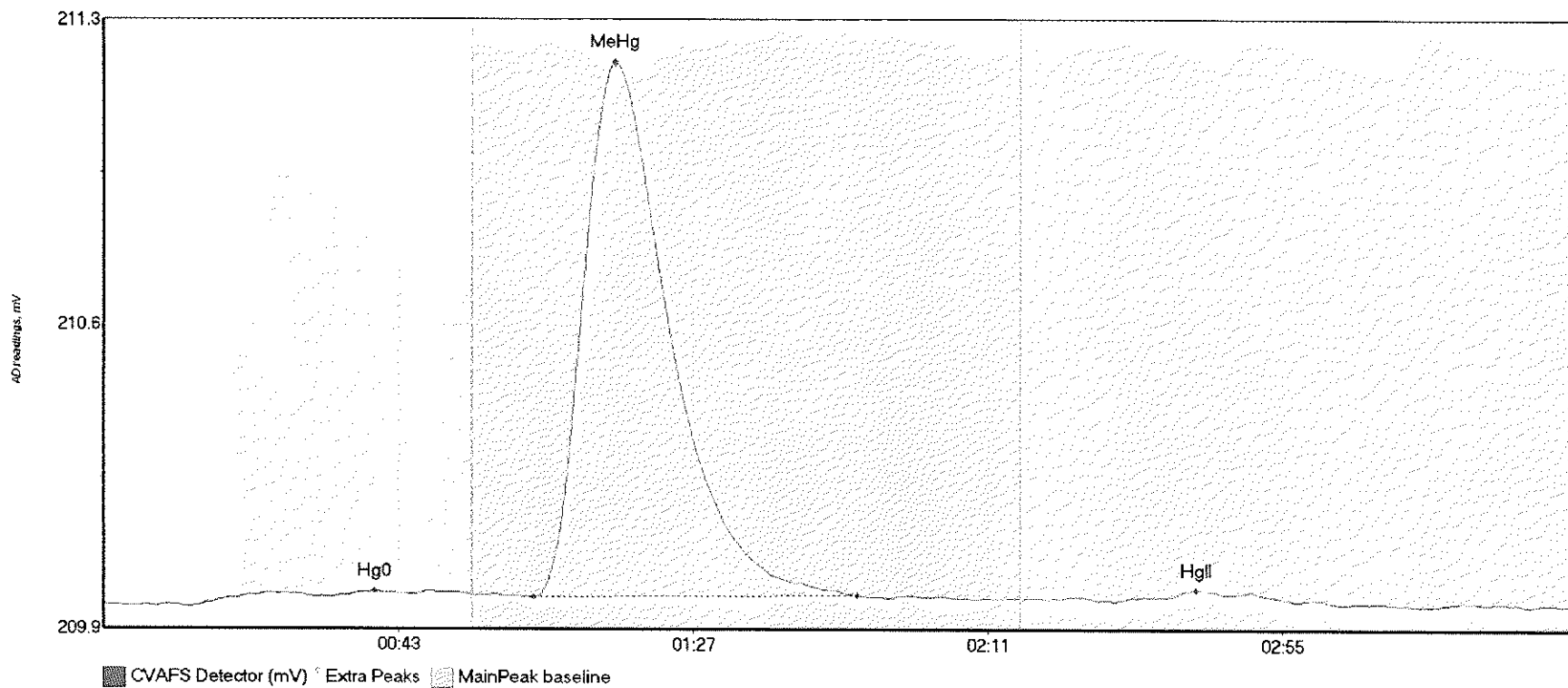
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708539-BLK1 Hg	4.824	6.1	55.0	209.92	209.95	46.8	0.035	CT	209.9191	0.00	0.02	
F708539-BLK1 Hg	7.366	151.5	184.6	209.95	209.95	168.9	0.041	OK	209.9191	0.00	0.02	017

#32: F708539-BLK2



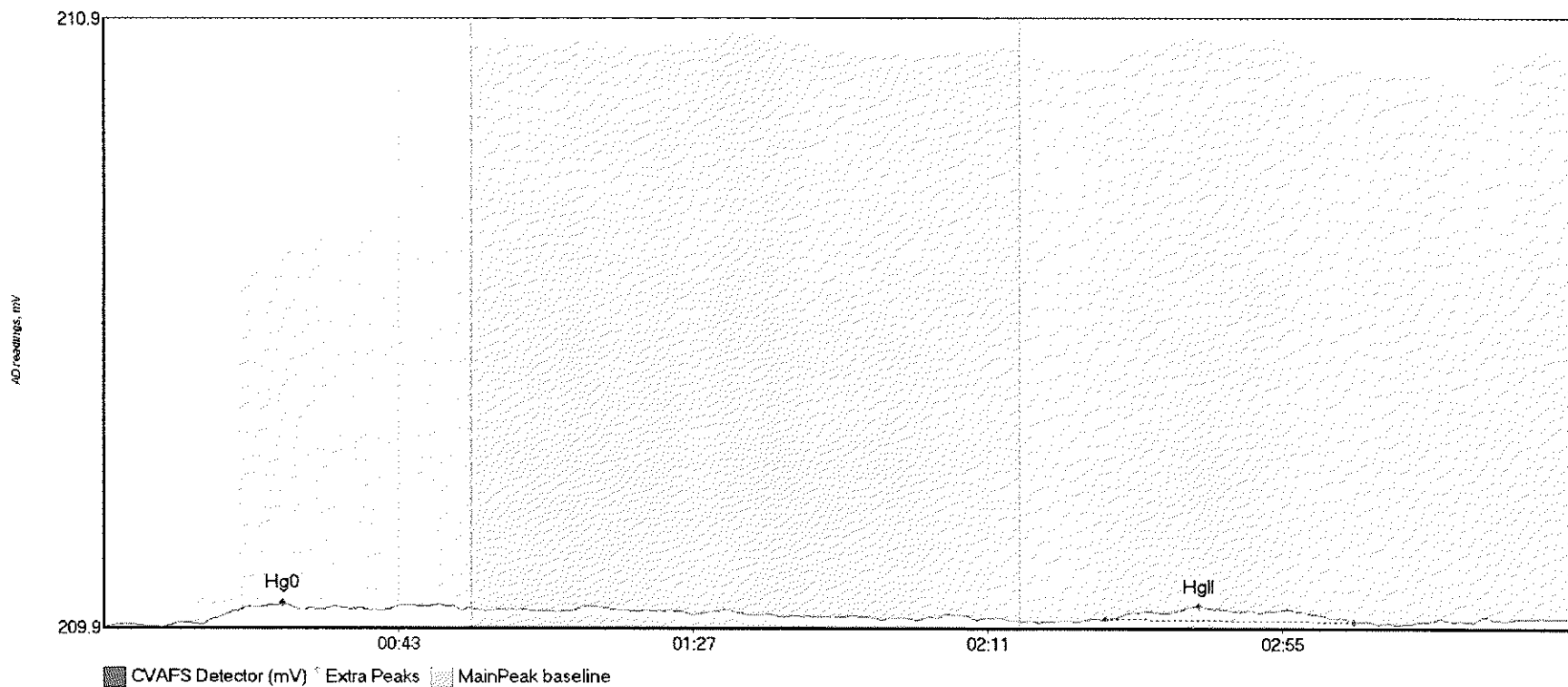
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708539-BLK2 Hg	3.235	14.9	55.0	209.92	209.95	53.8	0.031	CT	209.9265	0.00	0.01	
F708539-BLK2 Hg	7.423	151.2	185.9	209.94	209.94	166.3	0.040	OK	209.9265	0.00	0.01	117

#33: SEQ-CCV2



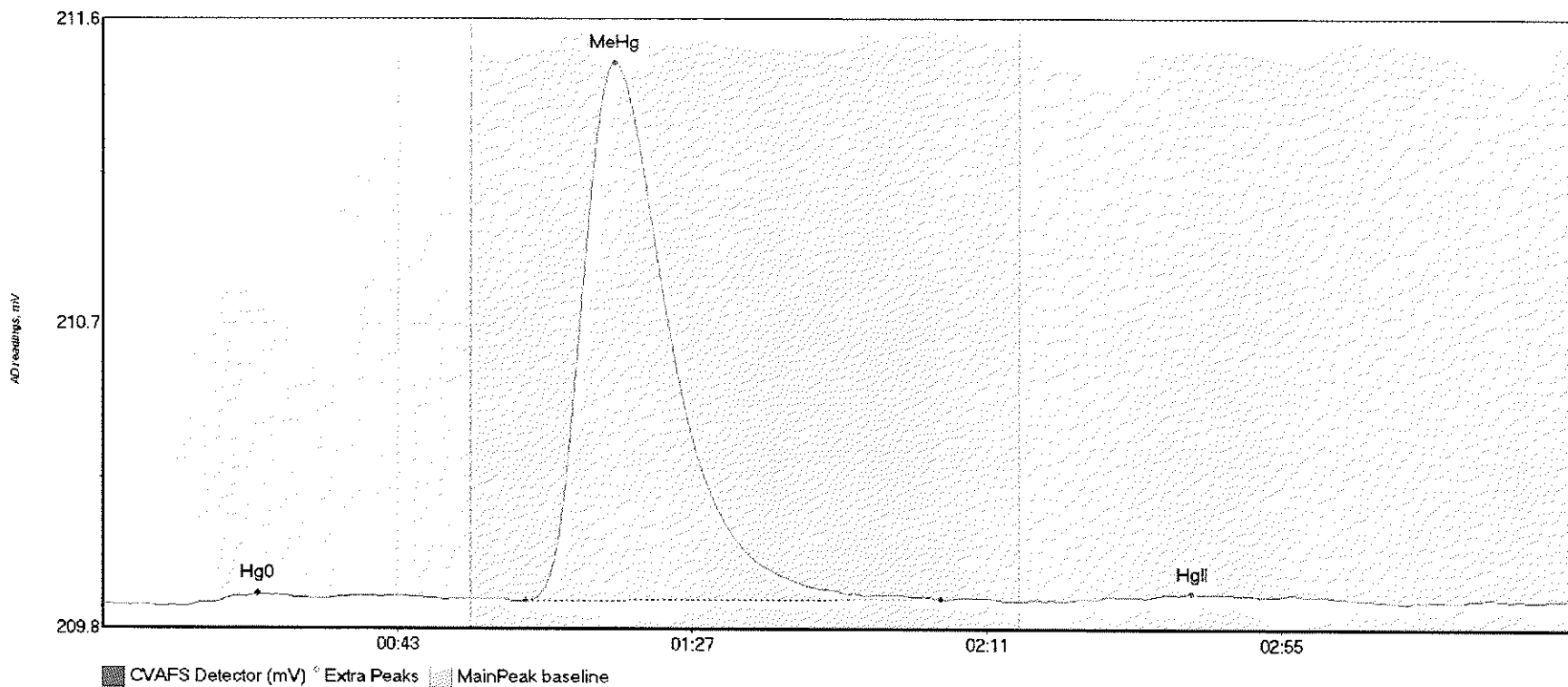
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV2 Hg0	4.044	15.8	55.0	209.92	209.94	40.5	0.027	CT	209.9195	0.00	0.00	
SEQ-CCV2 MeHg	182.427	64.1	112.6	209.94	209.94	76.3	1.219	OK	209.9195	0.00	0.00	
SEQ-CCV2 HgII	1.956	158.6	176.2	209.94	209.93	163.2	0.018	OK	209.9195	0.00	0.00	

#34: SEQ-CCB2



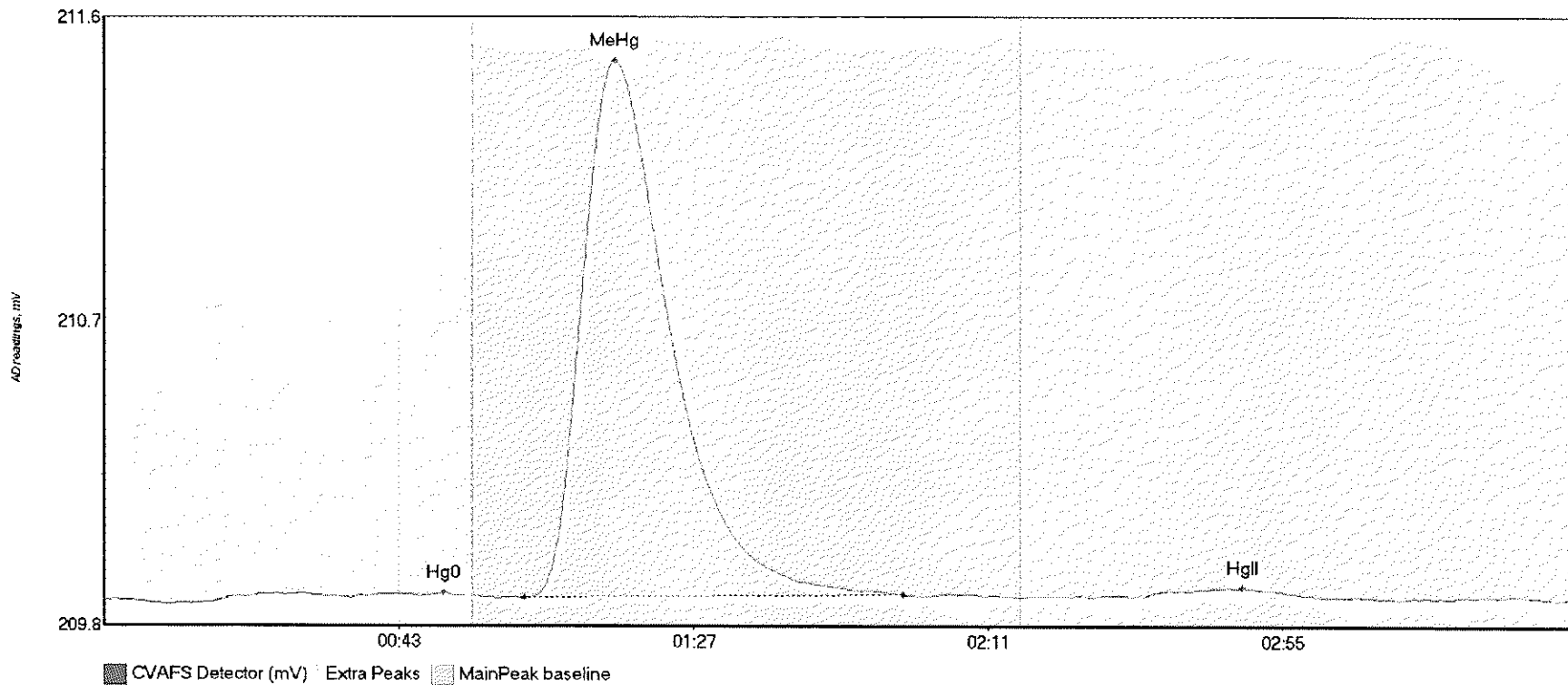
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB2 Hg0	1.708	14.5	29.7	209.91	209.93	26.7	0.033	OK	209.9039	0.00	0.01	
SEQ-CCB2 HgII	5.239	149.8	186.8	209.92	209.91	163.6	0.022	OK	209.9039	0.00	0.01	017

#35: SEQ-CCV3



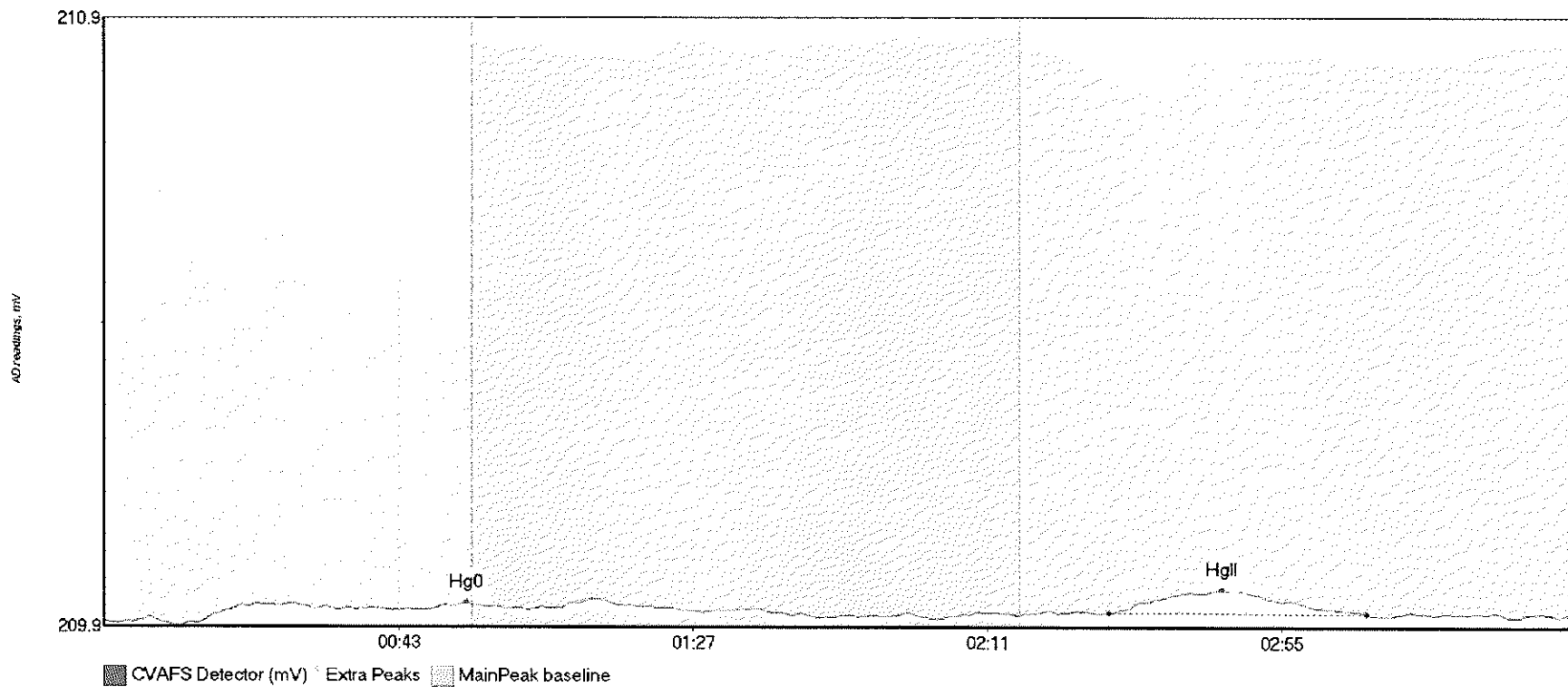
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
SEQ-CCV3 Hg0	4.155	16.1	50.7	209.91	209.92	23.2	0.024	OK	209.9084	0.00	0.01	
SEQ-CCV3 MeHg	245.030	63.2	125.1	209.92	209.92	76.5	1.590	OK	209.9084	0.00	0.01	
SEQ-CCV3 HgII	4.259	148.4	188.0	209.92	209.92	162.8	0.017	OK	209.9084	0.00	0.01	

#36: SEQ-CCV4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	3.978	15.9	54.1	209.91	209.93	50.7	0.026	OK	209.9146	0.00	0.00	
SEQ-CCV4 MeHg	242.074	62.7	119.3	209.92	209.93	76.3	1.591	OK	209.9146	0.00	0.00	
SEQ-CCV4 HgII	4.504	154.7	182.3	209.92	209.92	170.1	0.026	OK	209.9146	0.00	0.00	

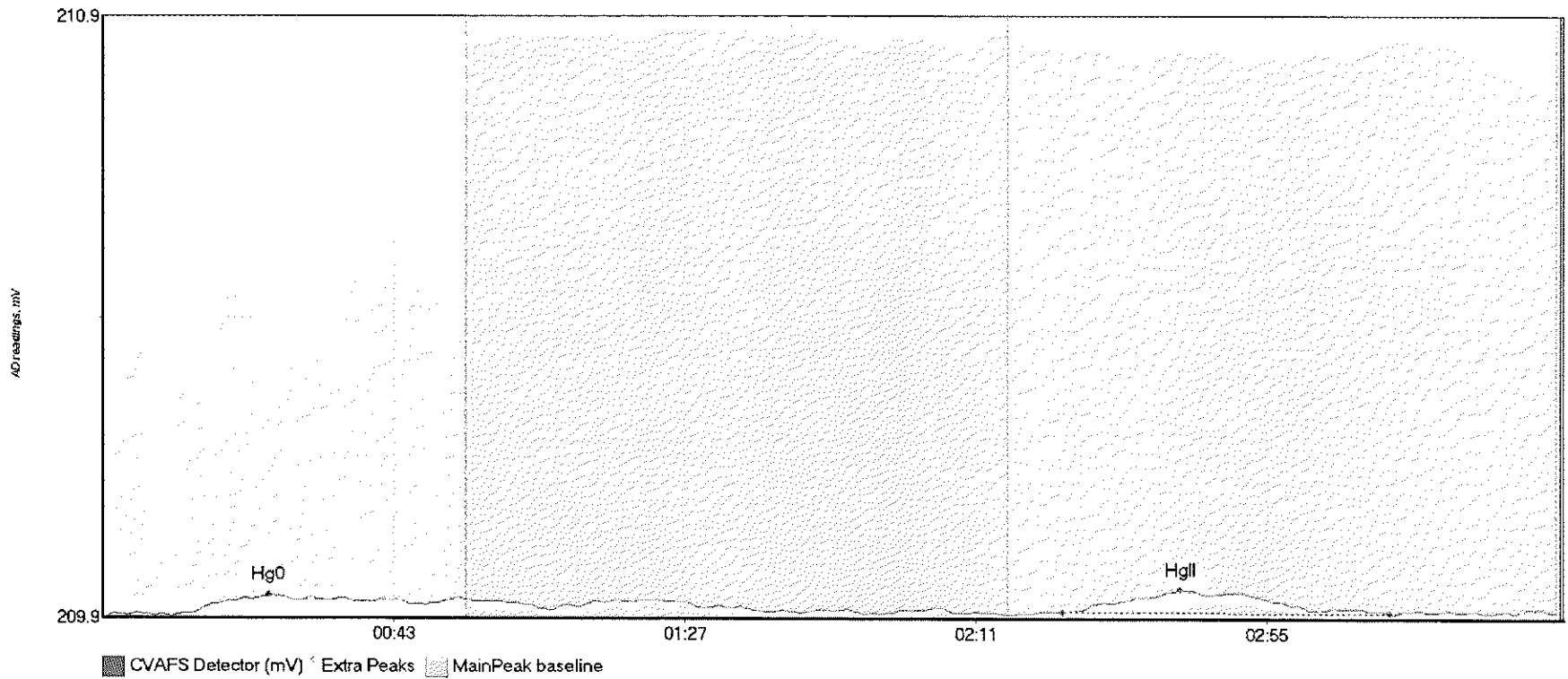
#37: F708539-BLK3



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708539-BLK3 Hg	3.975	13.6	55.0	209.89	209.92	54.1	0.033	CT	209.8928	0.00	0.01	
F708539-BLK3 Hg	7.985	150.2	186.7	209.91	209.91	167.1	0.038	OK	209.8928	0.00	0.01	017

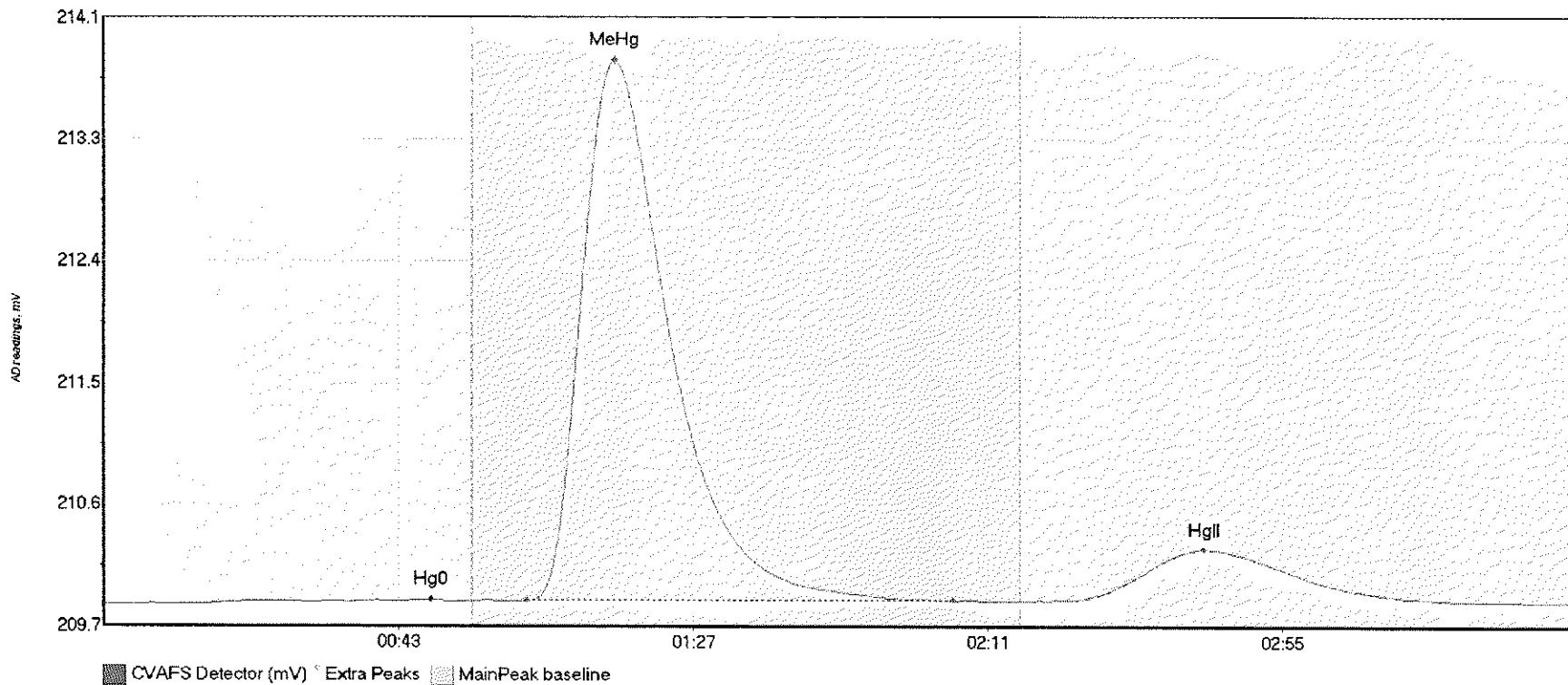


#38: \*F708539-BLK4



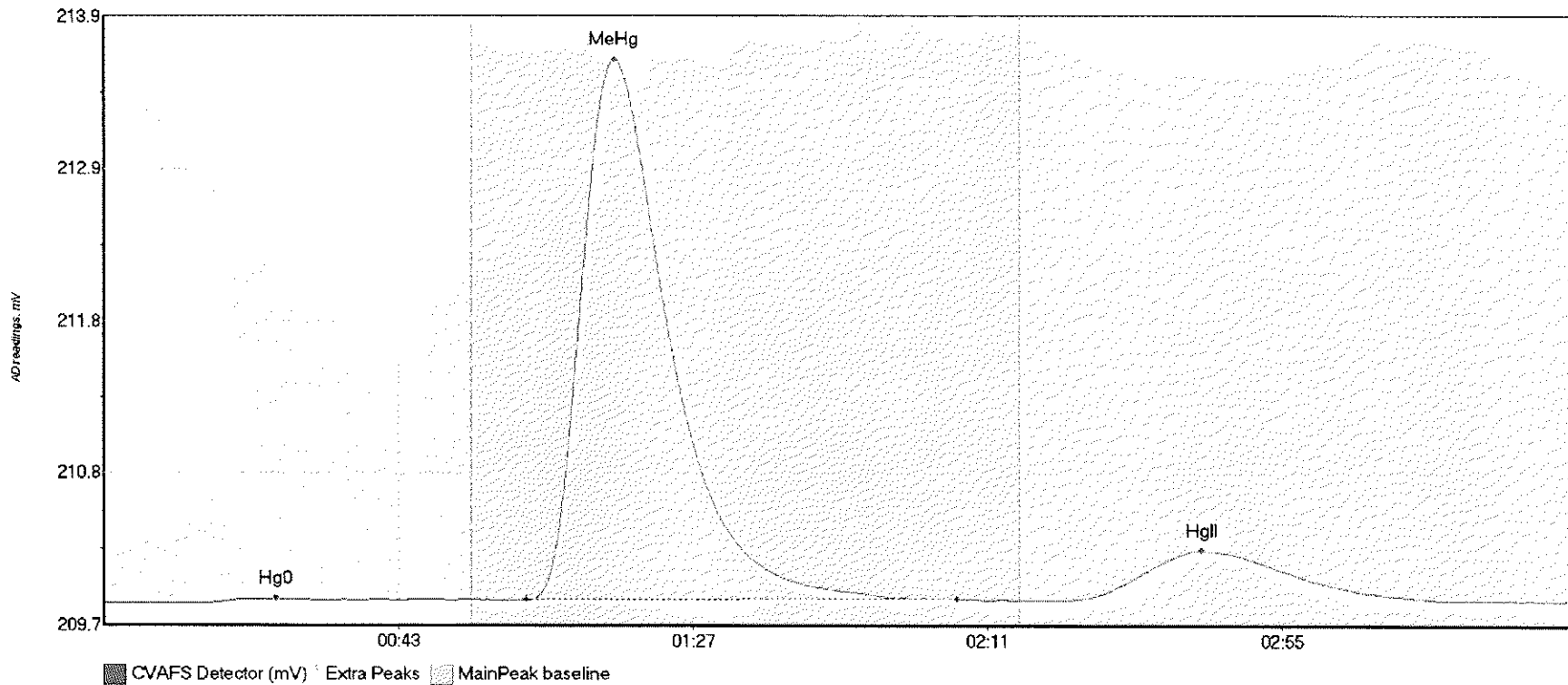
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
*F708539-BLK4	H 4.881	12.1	48.6	209.90	209.91	25.2	0.031	OK	209.8923	0.00	0.01	
*F708539-BLK4	H 9.202	145.2	194.6	209.90	209.90	163.1	0.039	OK	209.8923	0.00	0.01	017

#39: F708539-BS1



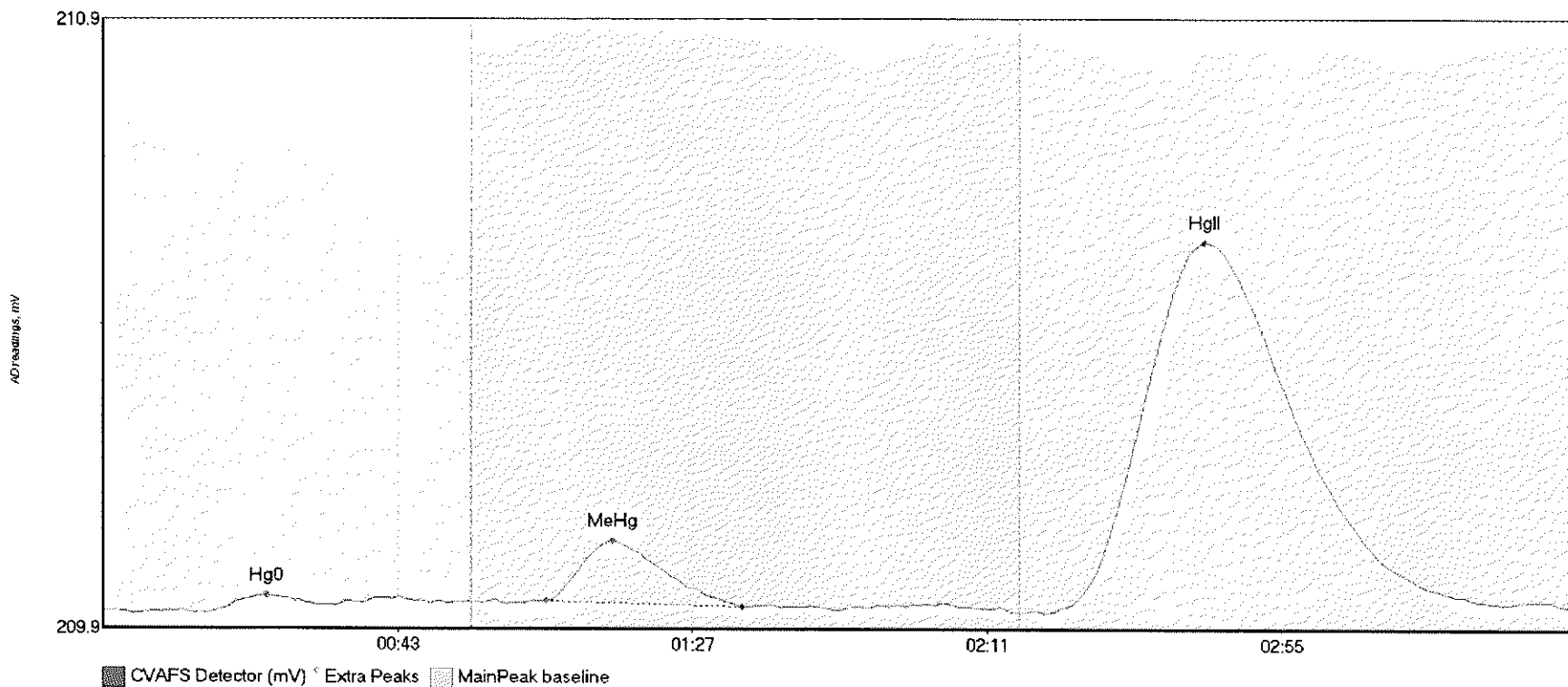
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708539-BS1 Hg0	4.390	14.9	55.0	209.90	209.92	48.8	0.031	CT	209.8993	0.00	0.01	
F708539-BS1 MeH	598.642	63.2	126.9	209.92	209.92	76.3	3.911	OK	209.8993	0.00	0.01	
F708539-BS1 HgI	90.126	143.7	199.9	209.92	209.92	164.3	0.371	OK	209.8993	0.00	0.01	

#40: F708539-BSD1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708539-BSD1 Hg	1.987	16.7	34.0	209.90	209.91	25.7	0.027	OK	209.8944	0.00	0.02	
F708539-BSD1 Me	567.175	63.2	127.5	209.91	209.92	76.3	3.728	OK	209.8944	0.00	0.02	
F708539-BSD1 Hg	83.889	143.7	199.9	209.91	209.91	164.0	0.344	OK	209.8944	0.00	0.02	

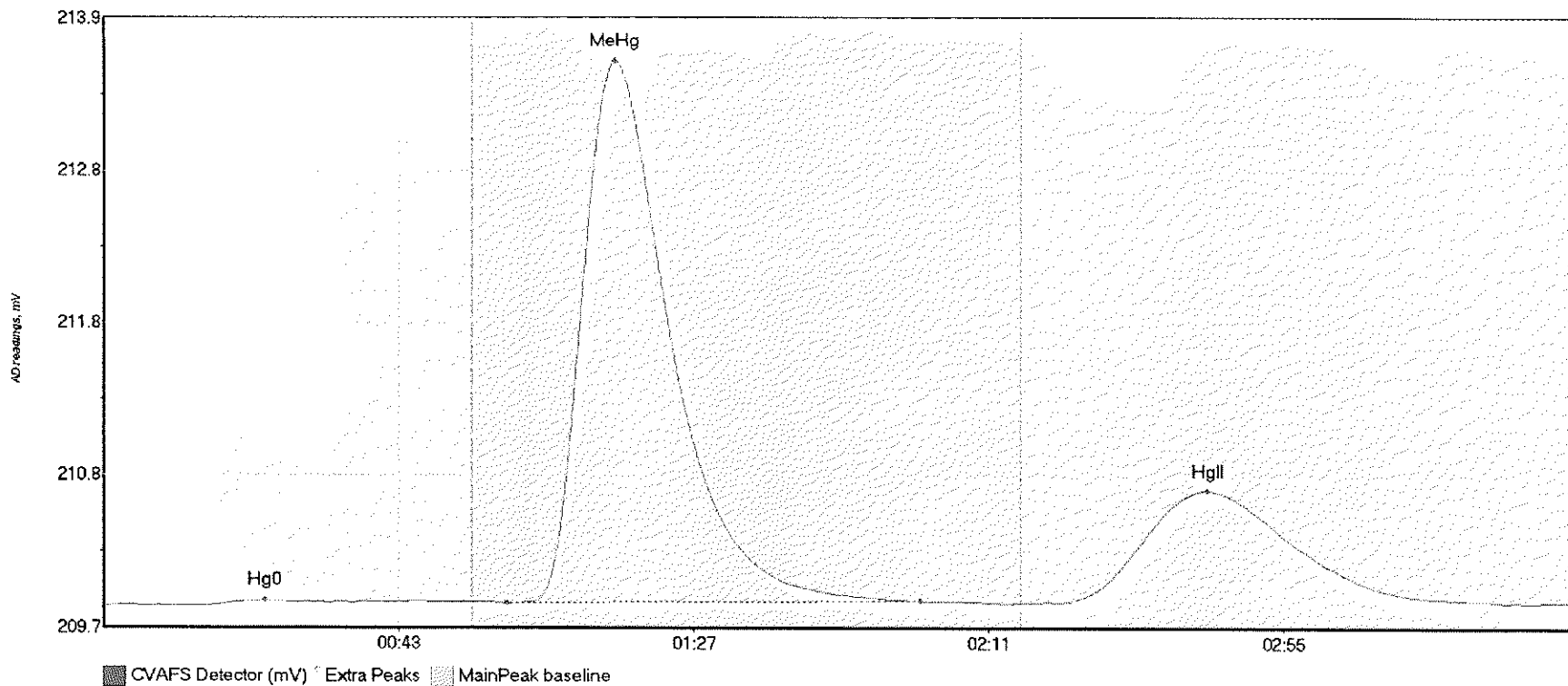
#41: F708539-DUP1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708539-DUP1 Hg	2.223	15.3	34.5	209.90	209.92	24.5	0.029	OK	209.9077	0.00	0.01	
F708539-DUP1 Me	14.103	66.1	95.5	209.92	209.91	76.1	0.098	OK	209.9077	0.00	0.01	
F708539-DUP1 Hg	156.808	141.8	219.8	209.91	209.91	164.4	0.607	CT	209.9077	0.00	0.01	

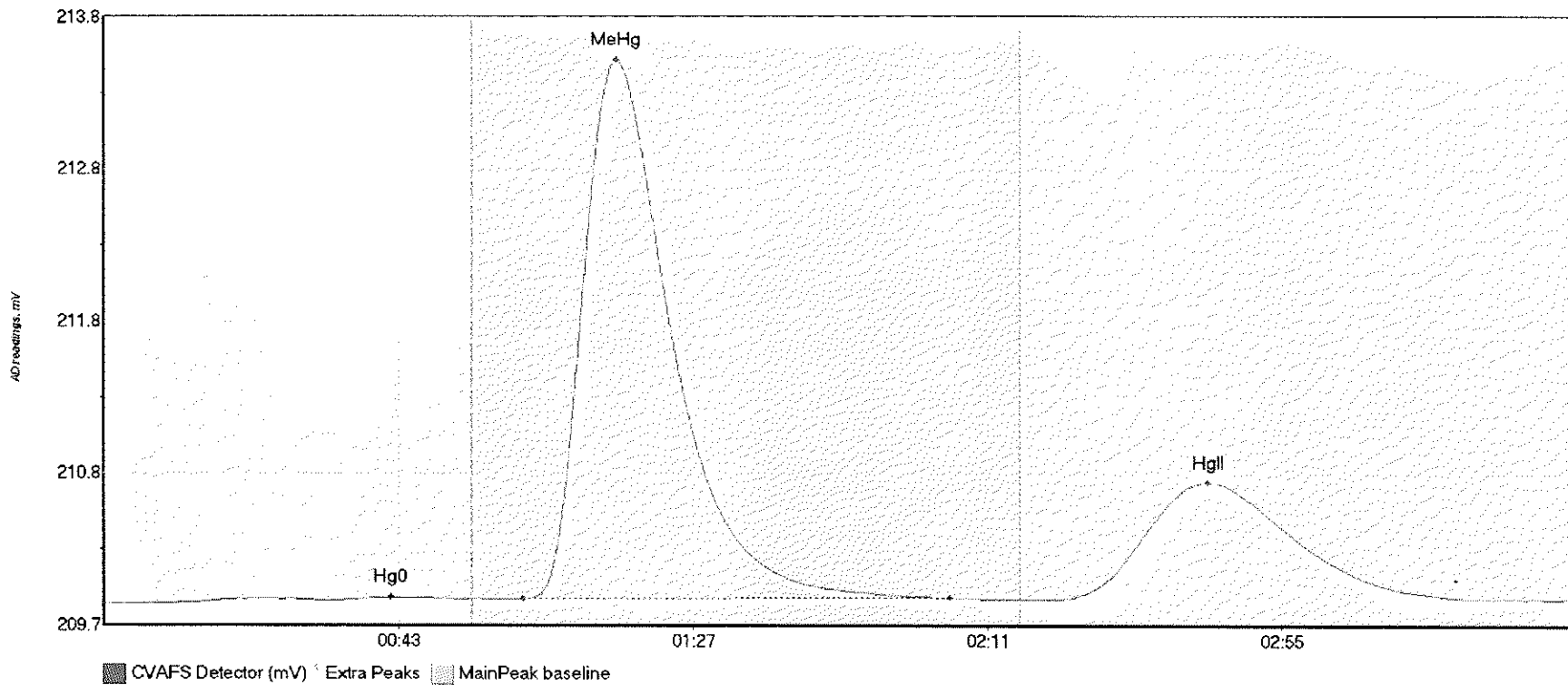
117

#42: F708539-MS1



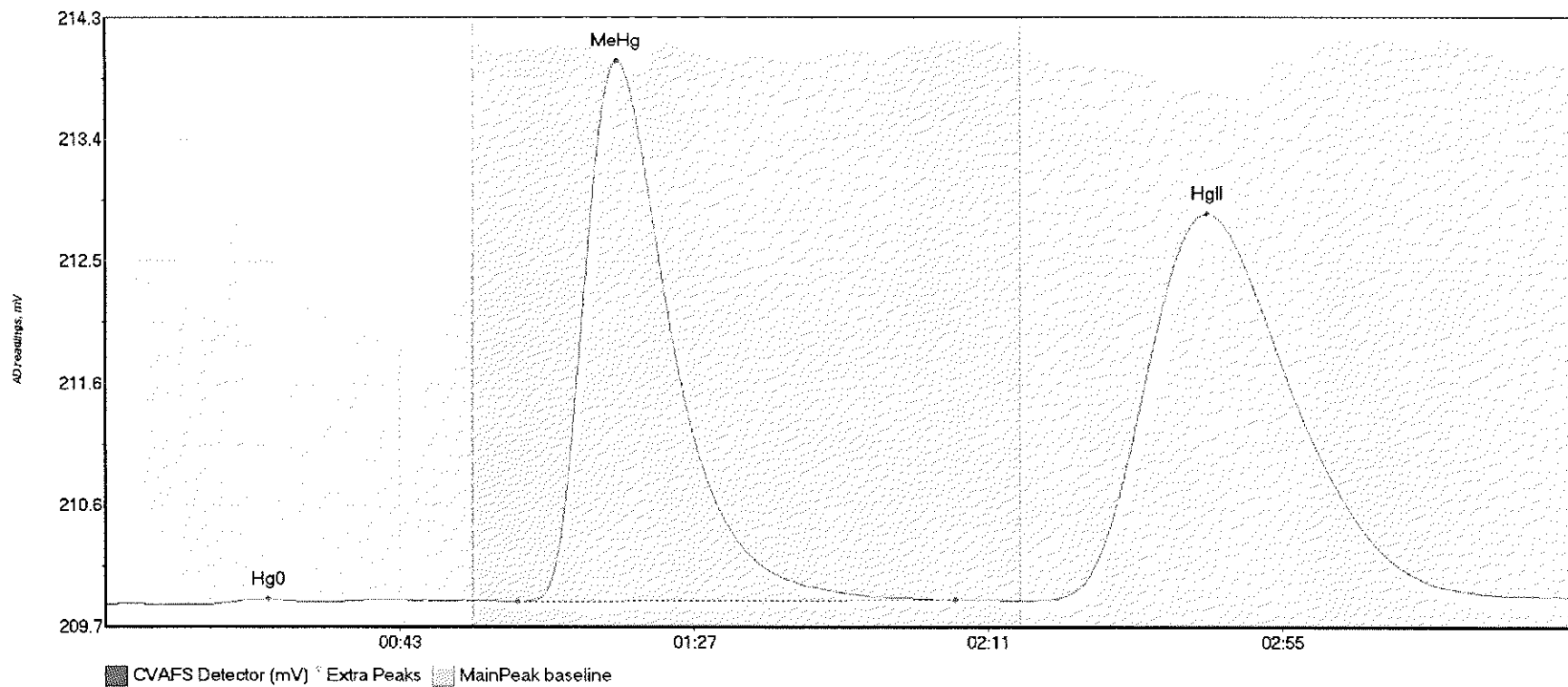
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708539-MS1 Hg0	2.761	15.9	37.0	209.90	209.92	24.1	0.032	OK	209.8977	0.00	0.02	
F708539-MS1 MeH	555.985	60.2	121.9	209.91	209.93	76.3	3.664	OK	209.8977	0.00	0.02	
F708539-MS1 HgI	190.042	142.7	209.3	209.92	209.92	164.8	0.758	OK	209.8977	0.00	0.02	

#43: F708539-MSD1



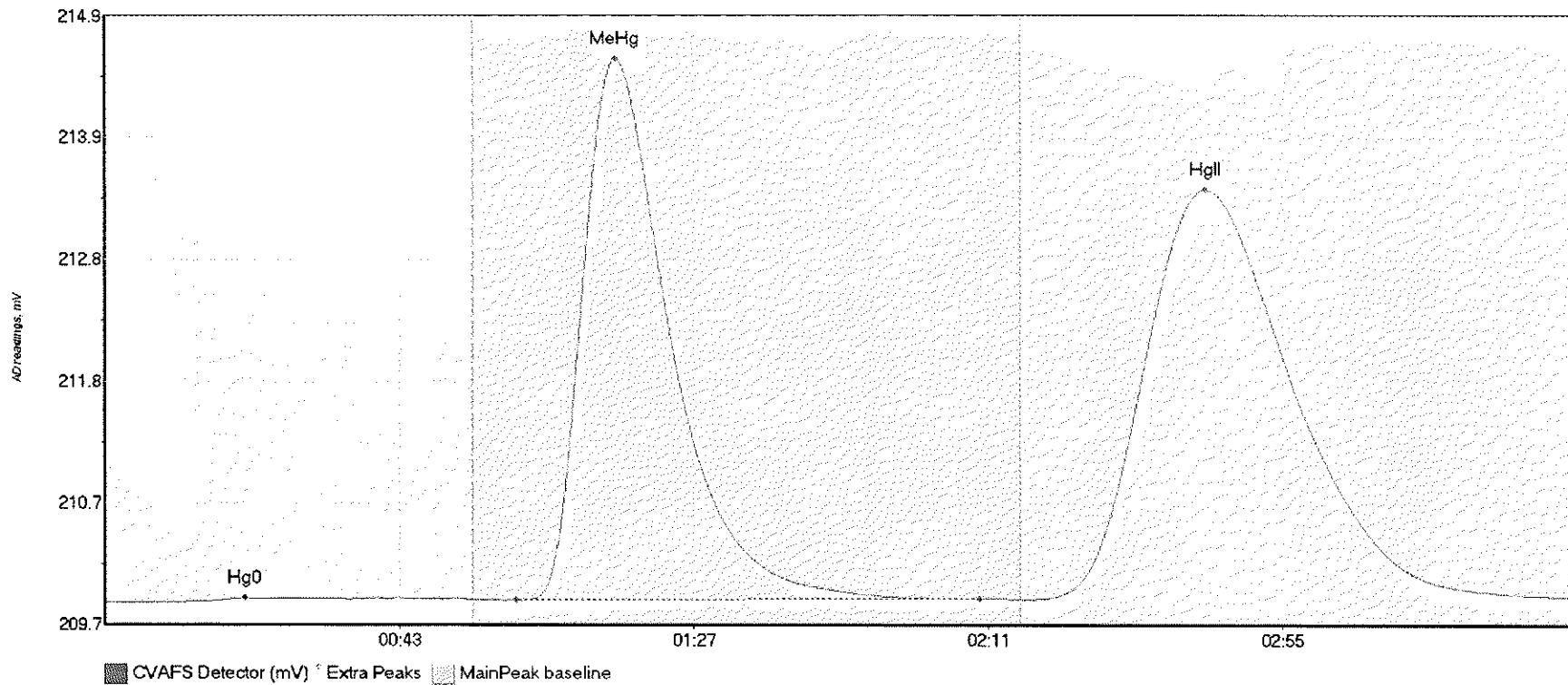
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708539-MSD1 Hg	5.520	12.5	53.3	209.89	209.91	42.8	0.037	OK	209.8851	0.00	0.03	
F708539-MSD1 Me	555.808	62.6	126.3	209.91	209.92	76.6	3.625	OK	209.8851	0.00	0.03	
F708539-MSD1 Hg	196.304	143.2	206.3	209.91	209.92	165.0	0.787	OK	209.8851	0.00	0.03	

#44: F708539-MS2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708539-MS2 Hg0	3.152	14.4	33.6	209.89	209.91	24.5	0.044	OK	209.8905	0.00	0.05	
F708539-MS2 MeH	625.600	61.7	127.1	209.91	209.92	76.5	4.080	OK	209.8905	0.00	0.05	
F708539-MS2 HgI	739.337	140.4	219.8	209.92	209.94	164.8	2.917	CT	209.8905	0.00	0.05	

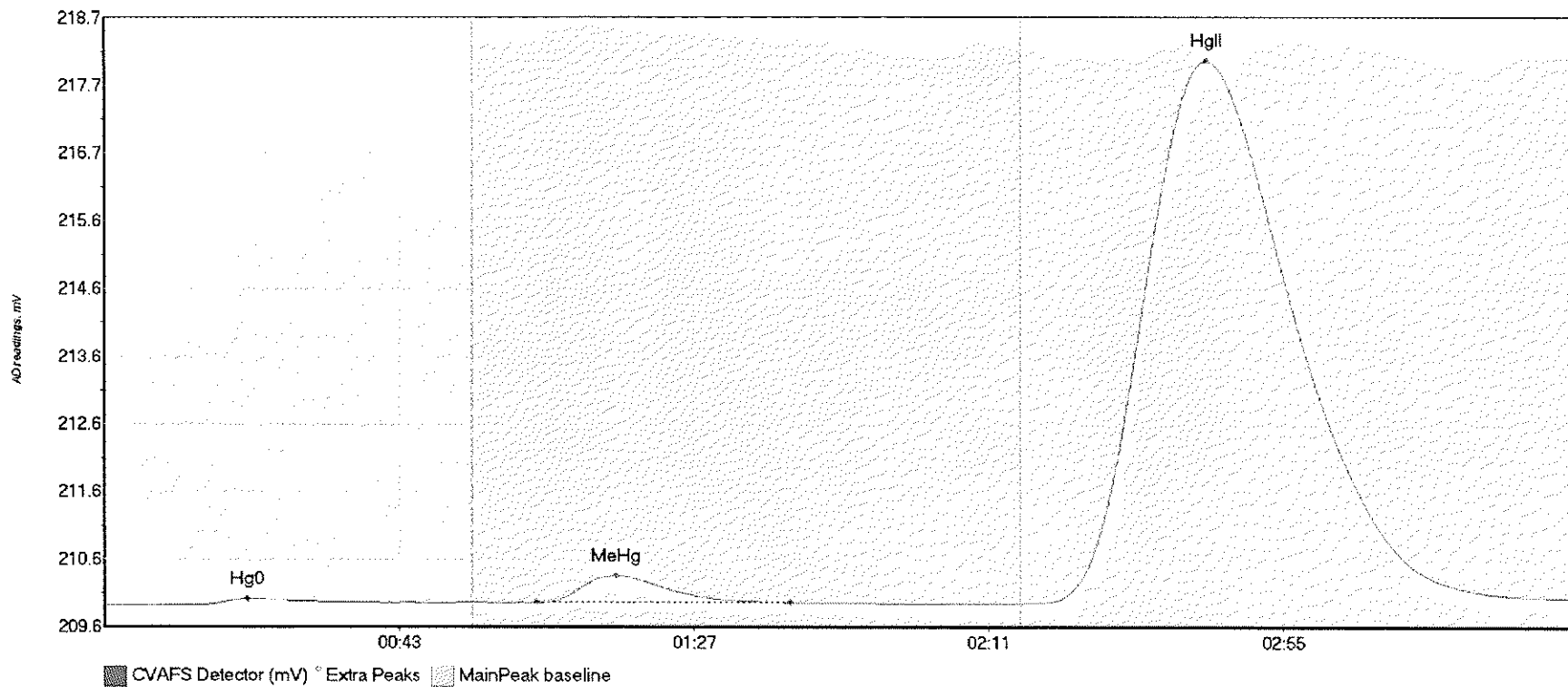
#45: F708539-MSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708539-MSD2 Hg	6.706	10.4	55.0	209.90	209.92	20.8	0.038	CT	209.8936	0.00	0.05	
F708539-MSD2 Me	702.683	61.4	130.8	209.92	209.93	76.3	4.611	OK	209.8936	0.00	0.05	
F708539-MSD2 Hg	887.869	138.6	219.7	209.92	209.94	164.5	3.498	OK	209.8936	0.00	0.05	

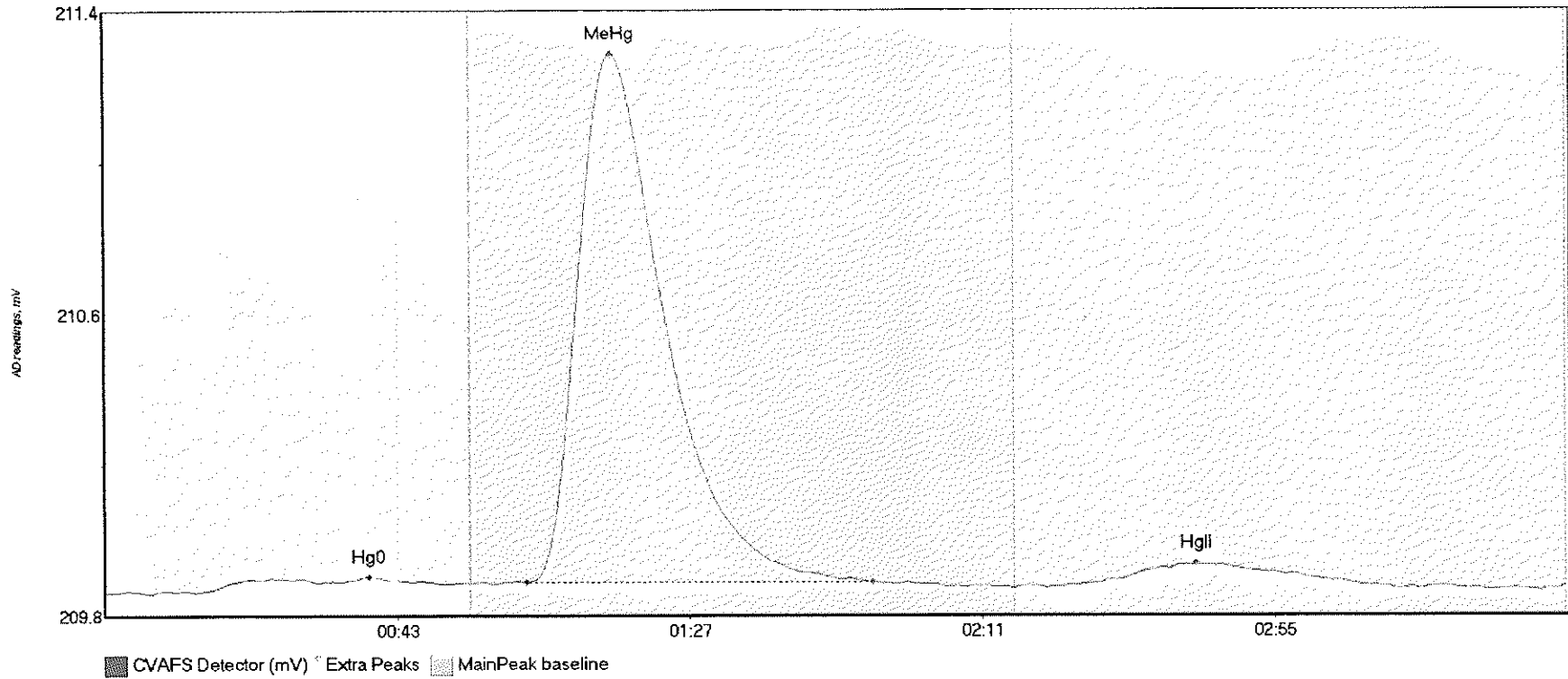


#46: 1708441-01



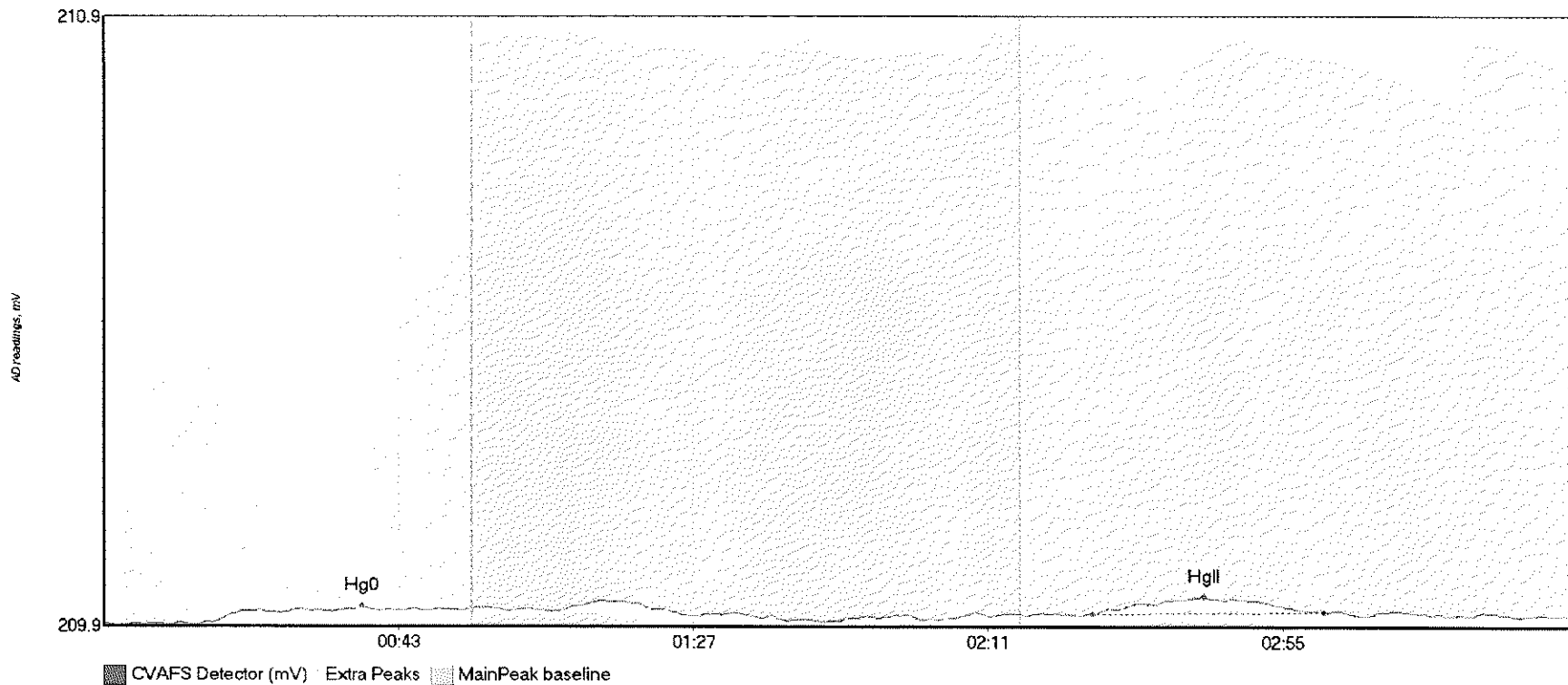
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708441-01 Hg0	10.965	11.7	47.8	209.89	209.93	21.5	0.088	OK	209.8918	0.00	0.10	
1708441-01 MeHg	57.782	64.6	102.4	209.93	209.93	76.5	0.401	OK	209.8918	0.00	0.10	
1708441-01 HgII	2065.483	138.0	219.8	209.92	209.99	164.6	8.112	CT	209.8918	0.00	0.10	

#47: SEQ-CCV3



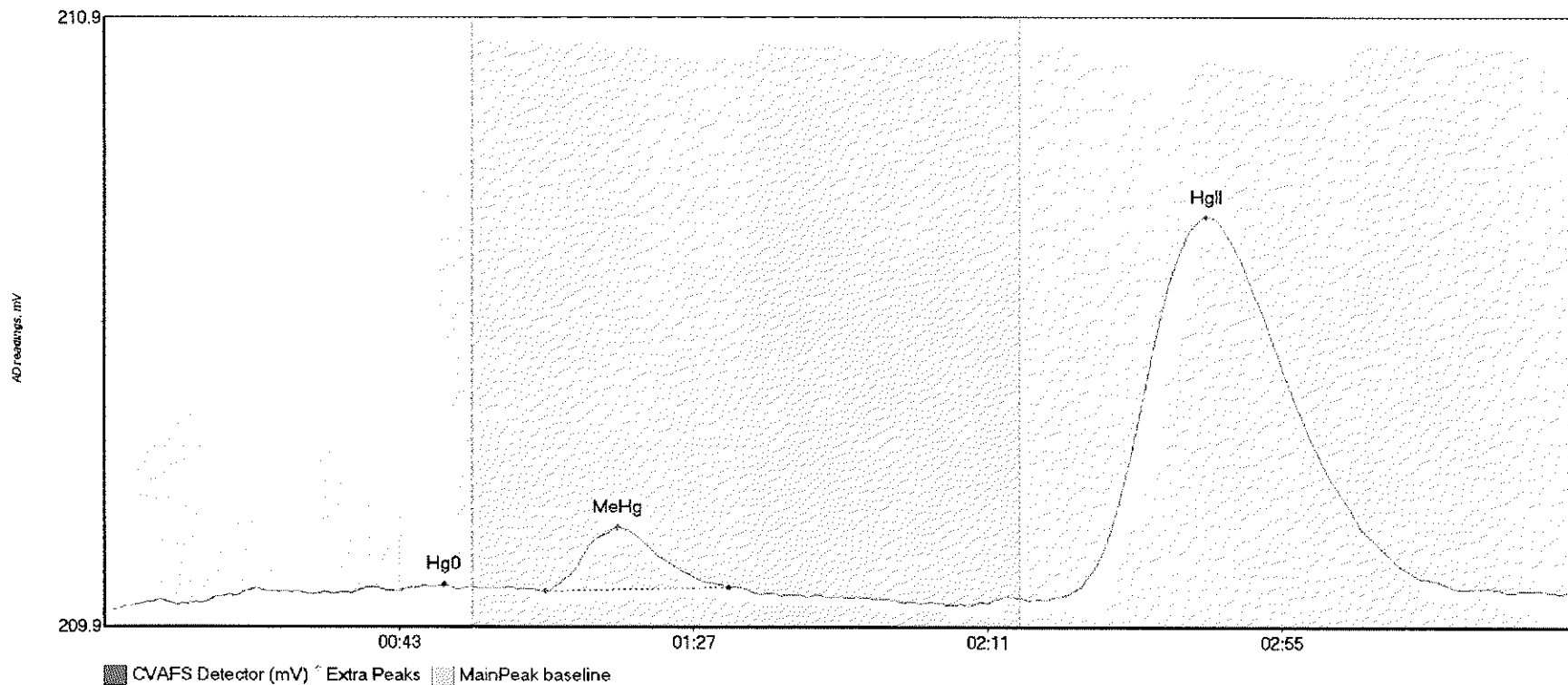
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV3 Hg0	6.385	13.7	51.9	209.90	209.92	39.7	0.040	OK	209.8983	0.00	0.02	
SEQ-CCV3 MeHg	206.760	63.4	115.6	209.93	209.93	76.3	1.362	OK	209.8983	0.00	0.02	
SEQ-CCV3 HgII	13.986	143.6	190.2	209.91	209.92	164.2	0.060	OK	209.8983	0.00	0.02	

#48: SEQ-CCB3



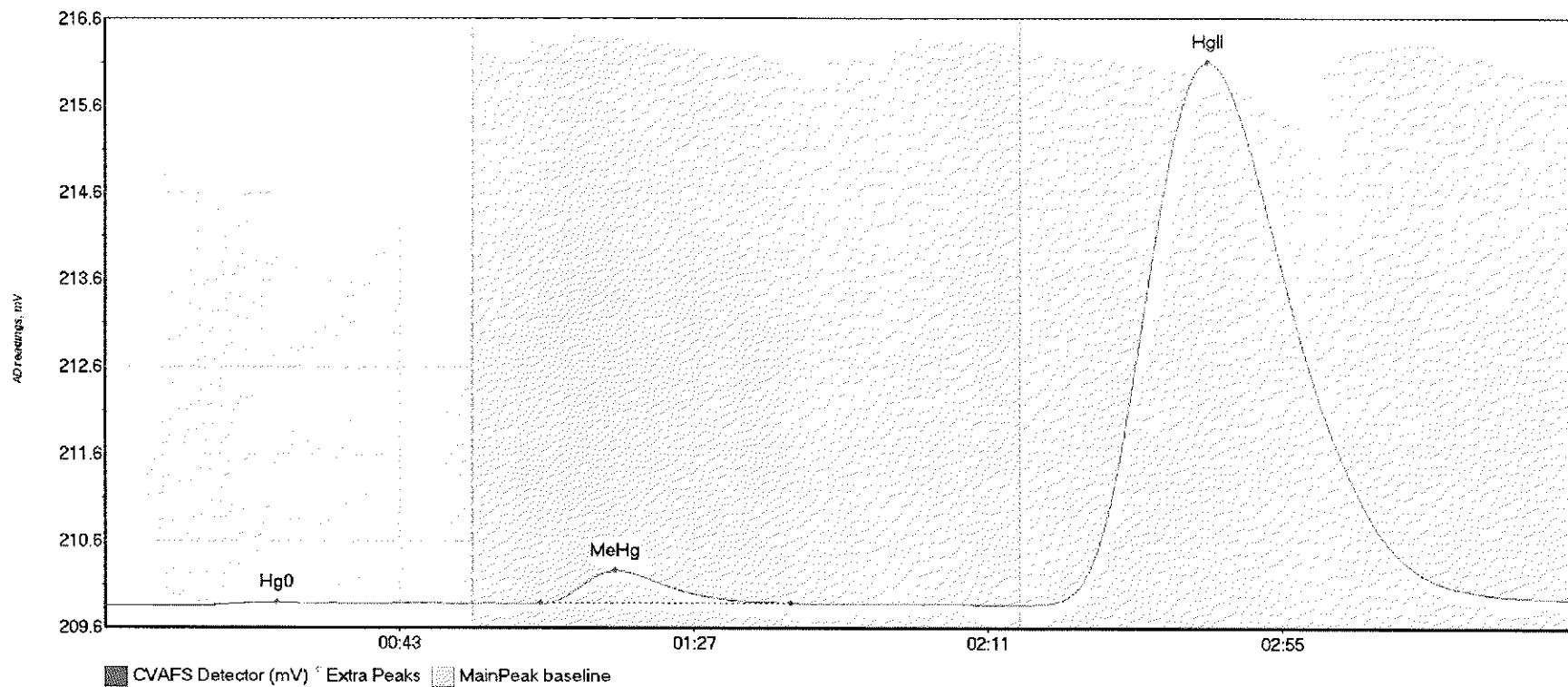
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	2.094	16.3	41.2	209.89	209.91	38.6	0.026	OK	209.8857	0.00	0.01	
SEQ-CCB3 HgII	5.396	147.8	182.2	209.90	209.90	164.3	0.029	OK	209.8857	0.00	0.01	017

#49: 1708557-11



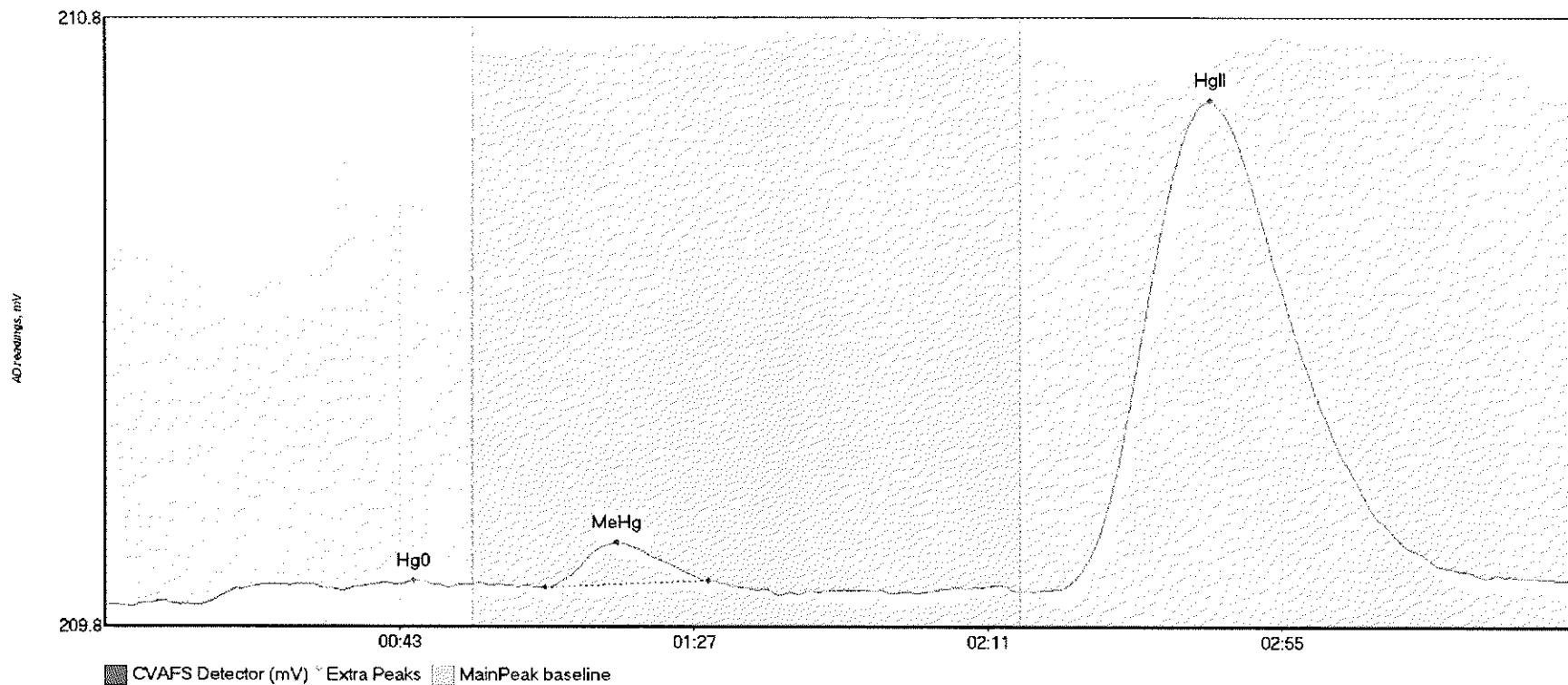
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-11 Hg0	4.225	1.7	52.7	209.88	209.91	50.7	0.039	OK	209.8789	0.00	0.03	
1708557-11 MeHg	13.307	65.9	93.3	209.91	209.92	76.7	0.107	OK	209.8789	0.00	0.03	
1708557-11 HgII	157.474	140.5	217.3	209.90	209.91	164.7	0.631	OK	209.8789	0.00	0.03	

#50: 1708557-18



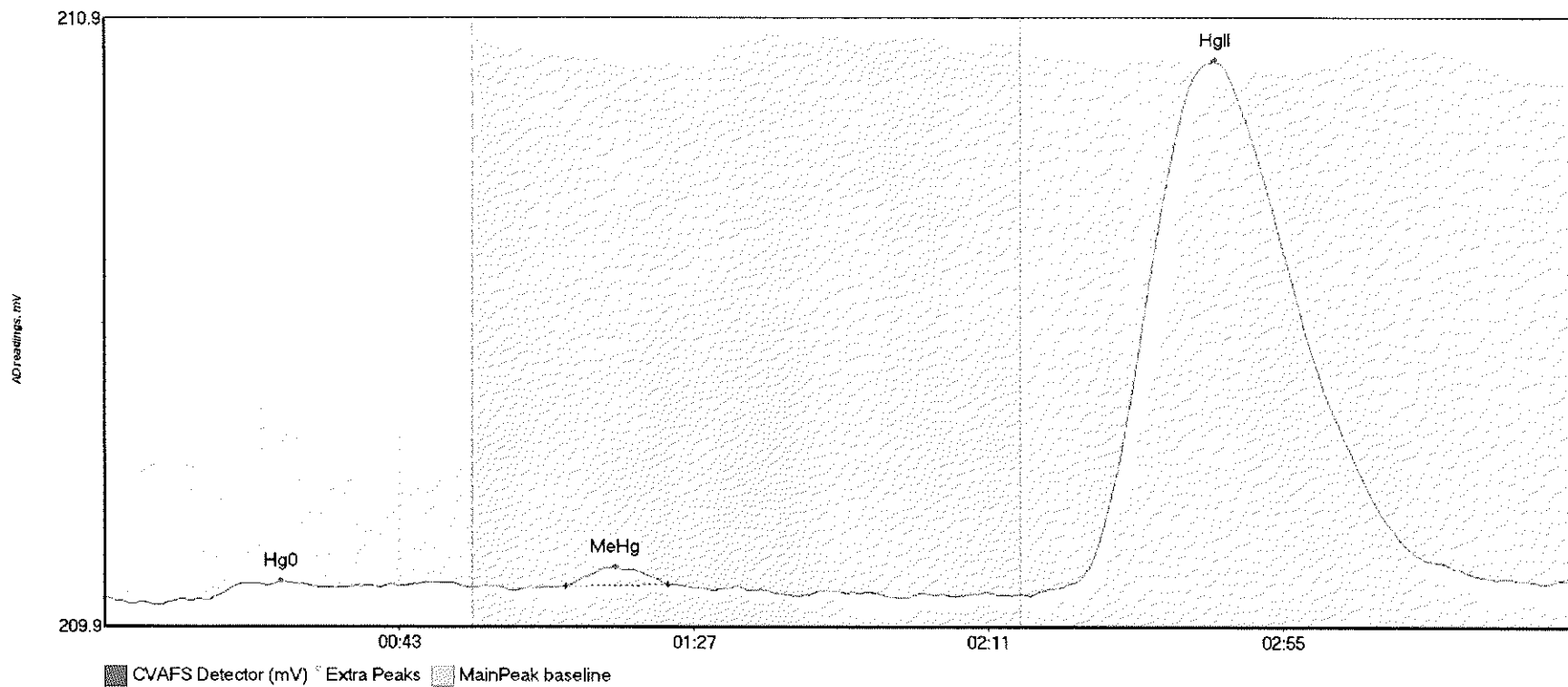
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-18 Hg0	3.705	13.8	38.3	209.89	209.91	25.7	0.039	OK	209.8883	0.00	0.08	
1708557-18 MeHg	54.683	65.1	102.5	209.92	209.92	76.3	0.375	OK	209.8883	0.00	0.08	
1708557-18 HgII	1568.070	138.6	219.8	209.91	209.97	164.9	6.208	CT	209.8883	0.00	0.08	

#51: 1708557-19



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-19 Hg0	5.554	14.2	51.3	209.88	209.91	46.1	0.040	OK	209.8796	0.00	0.04	
1708557-19 MeHg	8.660	65.8	90.1	209.91	209.92	76.6	0.075	OK	209.8796	0.00	0.04	
1708557-19 HgII	203.431	142.8	219.8	209.90	209.92	165.3	0.804	CT	209.8796	0.00	0.04	

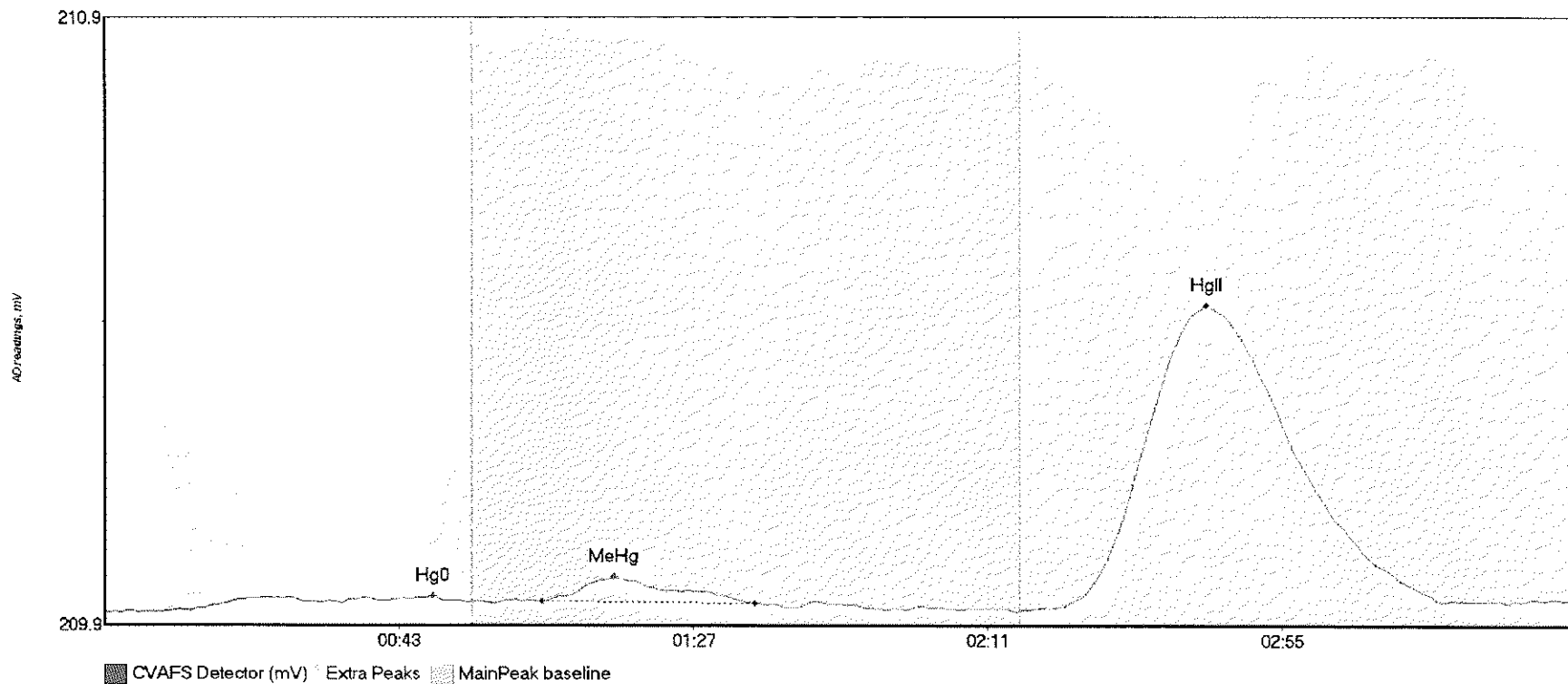
#52: 1708557-20



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-20 Hg0	2.406	15.3	34.6	209.90	209.92	26.4	0.033	OK	209.9011	0.00	0.03	
1708557-20 MeHg	2.793	68.8	84.2	209.92	209.92	76.3	0.032	OK	209.9011	0.00	0.03	
1708557-20 HgII	230.628	138.3	215.8	209.90	209.92	165.9	0.895	OK	209.9011	0.00	0.03	

017

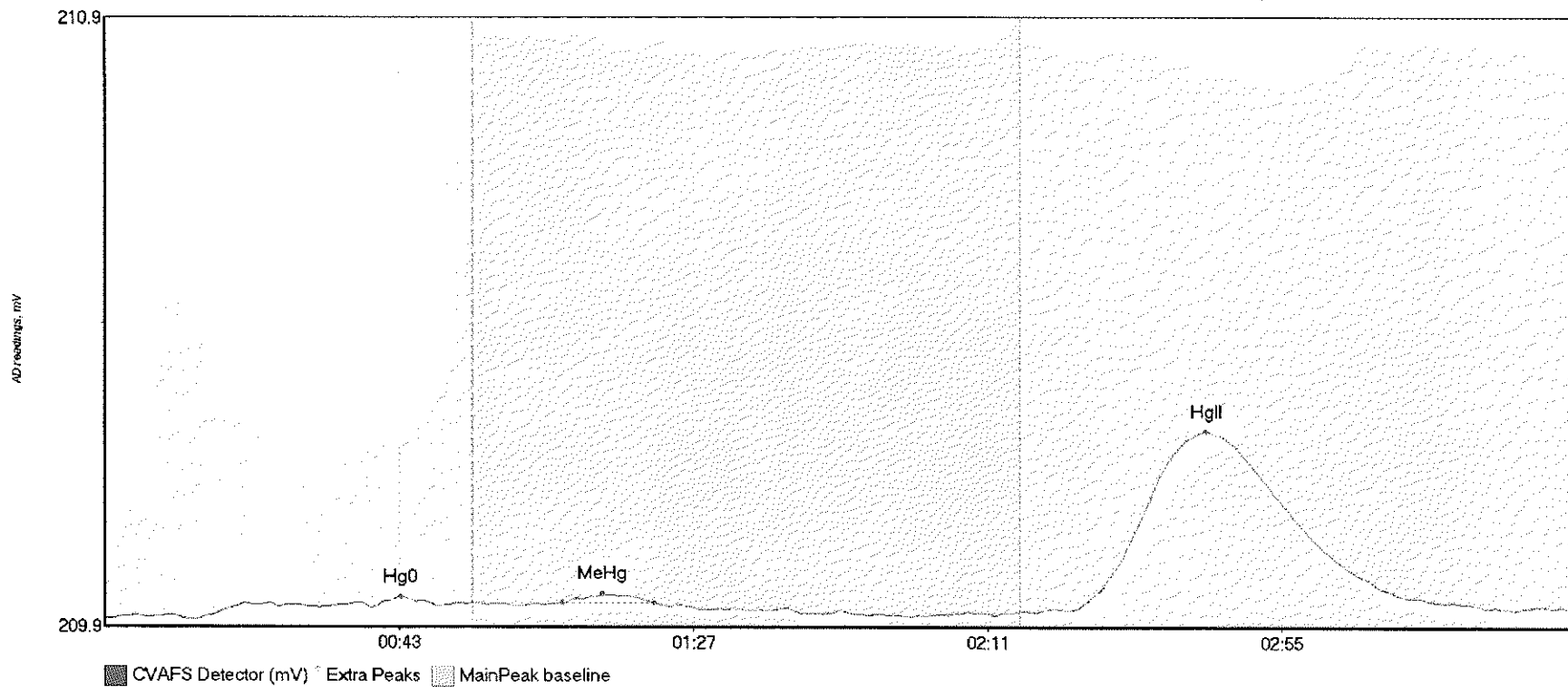
#53: 1708557-21



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-21 Hg0	4.264	12.7	54.5	209.91	209.92	49.1	0.024	OK	209.9054	0.00	0.02	
1708557-21 MeHg	6.196	65.4	97.2	209.92	209.92	76.1	0.039	OK	209.9054	0.00	0.02	
1708557-21 HgII	123.576	142.9	210.0	209.91	209.92	164.7	0.498	OK	209.9054	0.00	0.02	

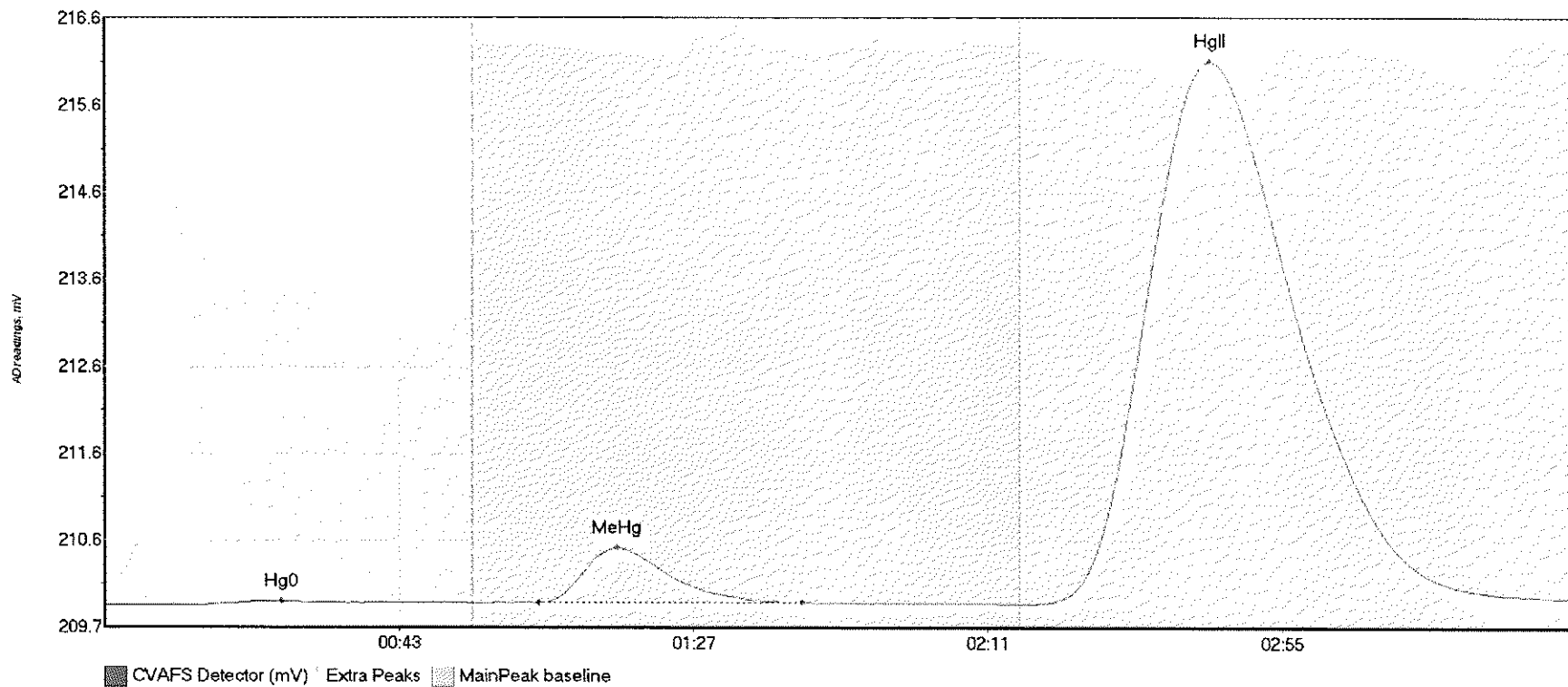


#54: 1708557-22



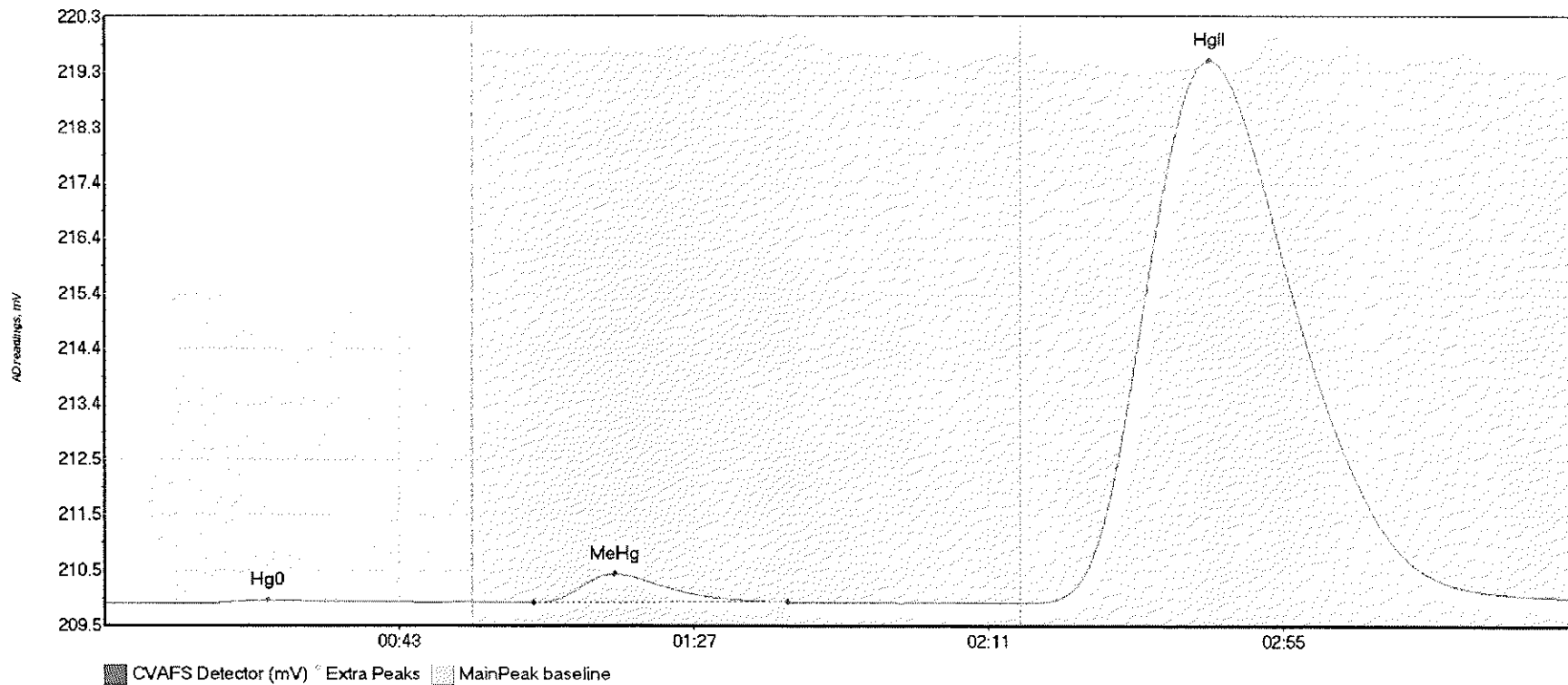
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-22 Hg0	3.293	15.7	49.7	209.91	209.93	44.3	0.030	OK	209.9050	0.00	0.02	
1708557-22 MeHg	1.247	68.4	82.2	209.93	209.93	74.5	0.014	OK	209.9050	0.00	0.02	
1708557-22 HgII	74.179	144.1	209.1	209.92	209.92	164.8	0.297	OK	209.9050	0.00	0.02	

#55: 1708557-23



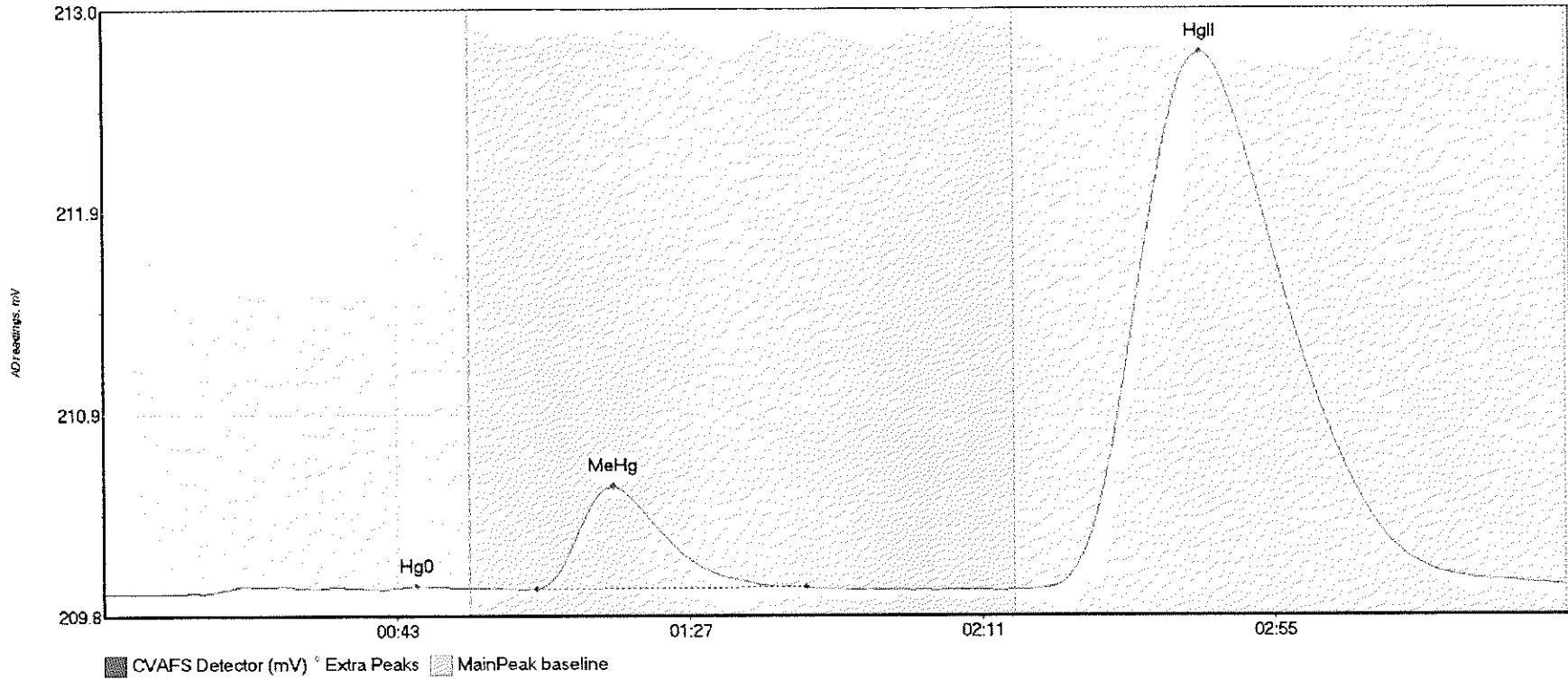
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-23 Hg0	6.655	14.1	54.8	209.91	209.94	26.5	0.040	OK	209.9158	0.00	0.07	
1708557-23 MeHg	89.914	64.9	104.3	209.94	209.94	76.6	0.622	OK	209.9158	0.00	0.07	
1708557-23 HgII	1568.384	139.2	218.8	209.93	209.99	165.2	6.155	OK	209.9158	0.00	0.07	

#56: 1708557-24



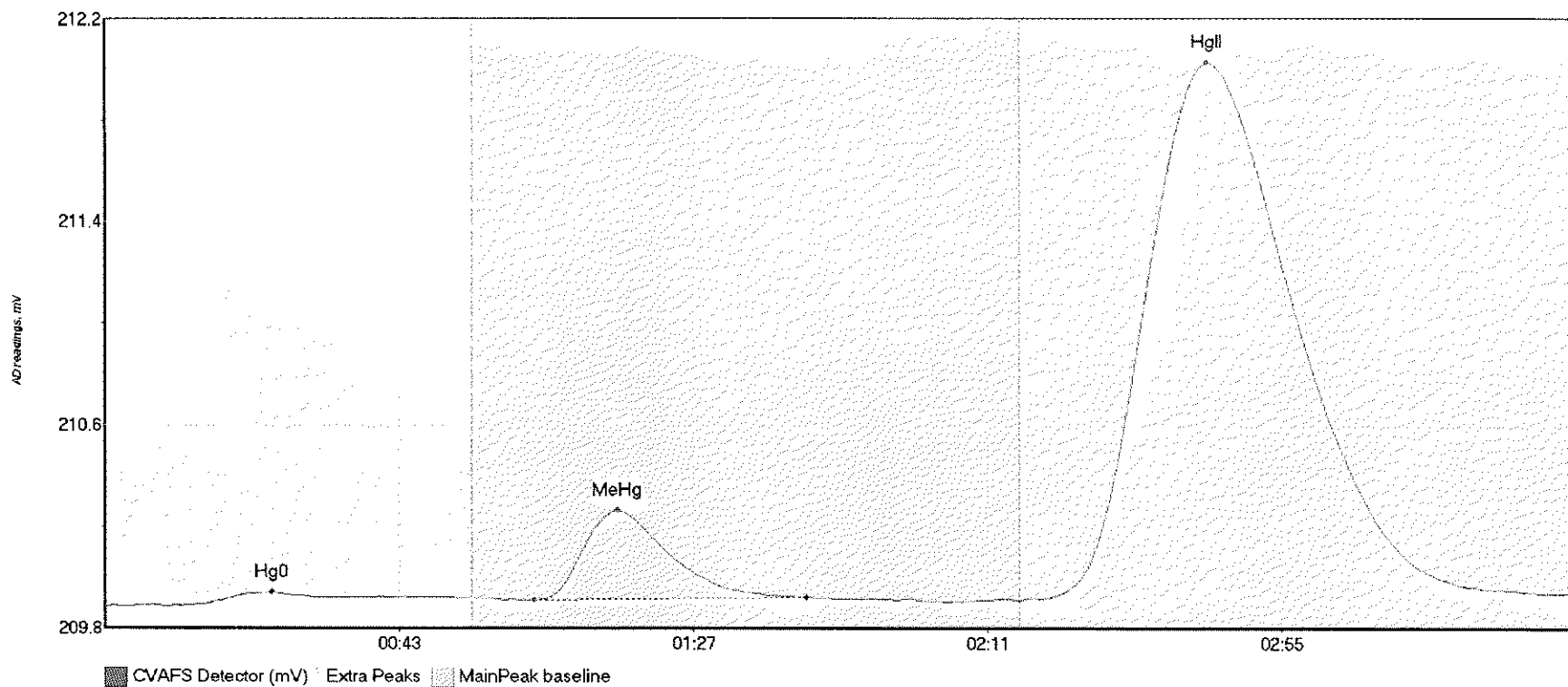
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-24 Hg0	7.938	15.8	48.0	209.92	209.95	24.4	0.056	OK	209.9202	0.00	0.11	
1708557-24 MeHg	72.075	64.1	102.0	209.94	209.95	76.3	0.497	OK	209.9202	0.00	0.11	
1708557-24 HgII	2475.333	138.6	219.8	209.94	210.03	165.0	9.579	CT	209.9202	0.00	0.11	

#57: 1708557-25



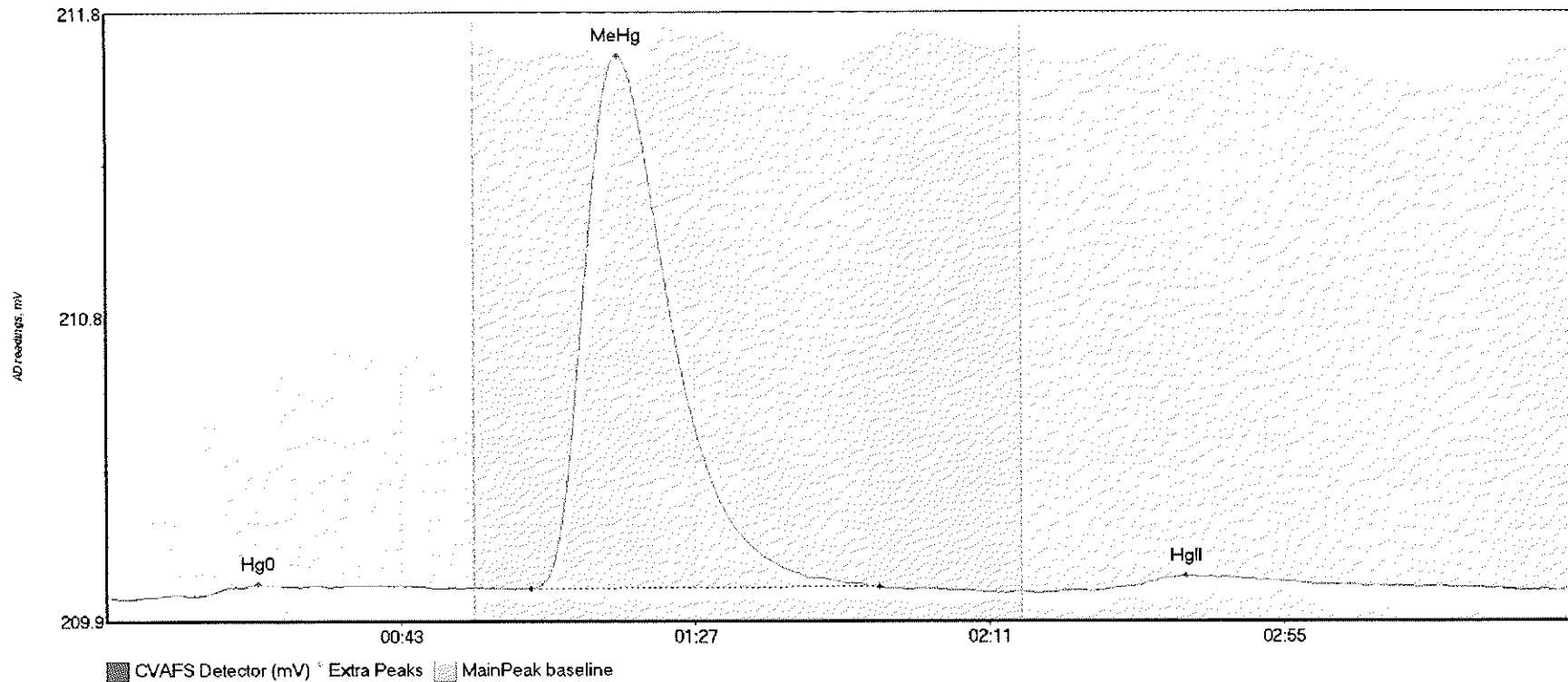
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-25 Hg0	5.625	15.6	54.8	209.93	209.95	47.0	0.039	OK	209.9231	0.00	0.04	
1708557-25 MeHg	78.540	65.0	105.6	209.95	209.95	76.6	0.538	OK	209.9231	0.00	0.04	
1708557-25 HgII	727.123	138.5	219.8	209.94	209.96	165.1	2.825	CT	209.9231	0.00	0.04	

#58: 1708557-26



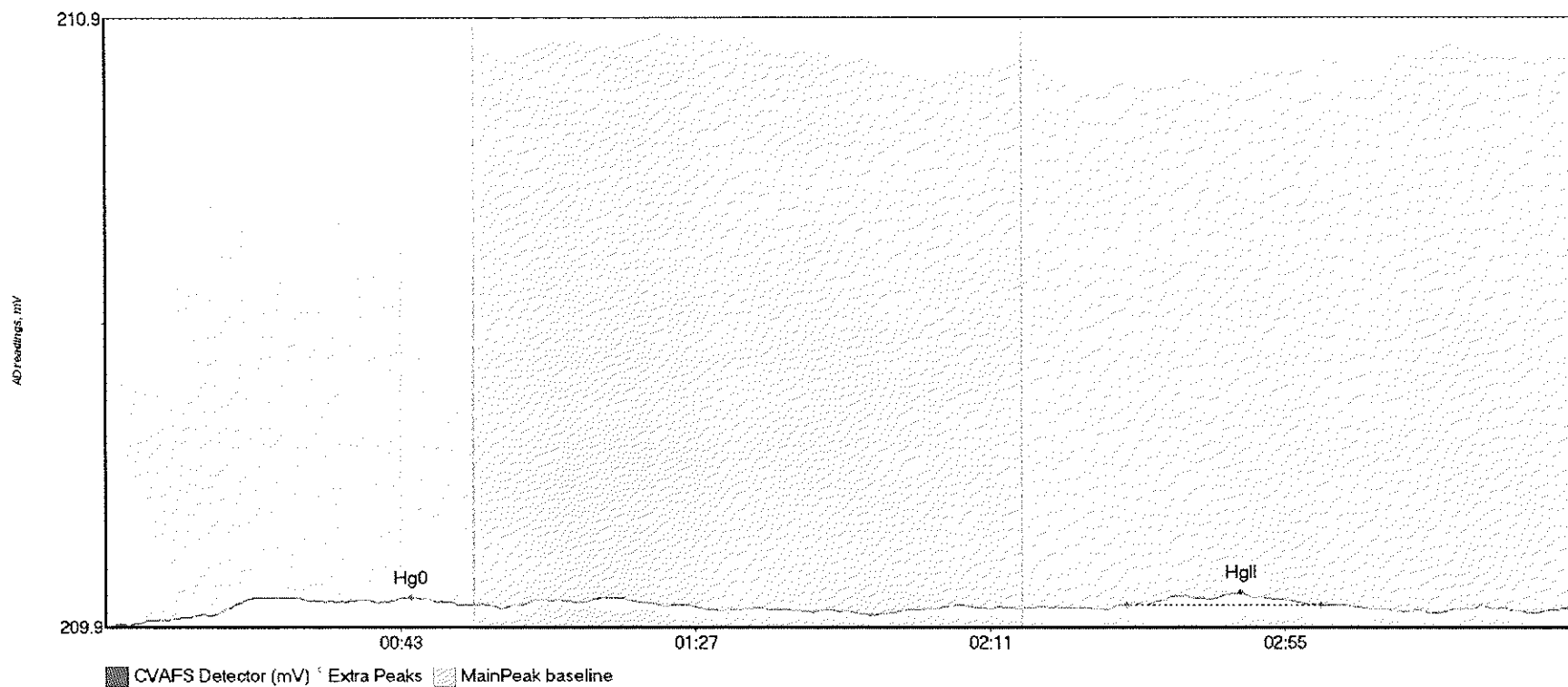
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-26 Hg0	7.493	12.1	53.2	209.92	209.95	25.0	0.051	OK	209.9241	0.00	0.05	
1708557-26 MeHg	49.716	64.3	104.9	209.94	209.95	76.7	0.344	OK	209.9241	0.00	0.05	
1708557-26 HgII	524.286	140.3	215.6	209.95	209.97	164.9	2.060	OK	209.9241	0.00	0.05	

#59: SEQ-CCV4



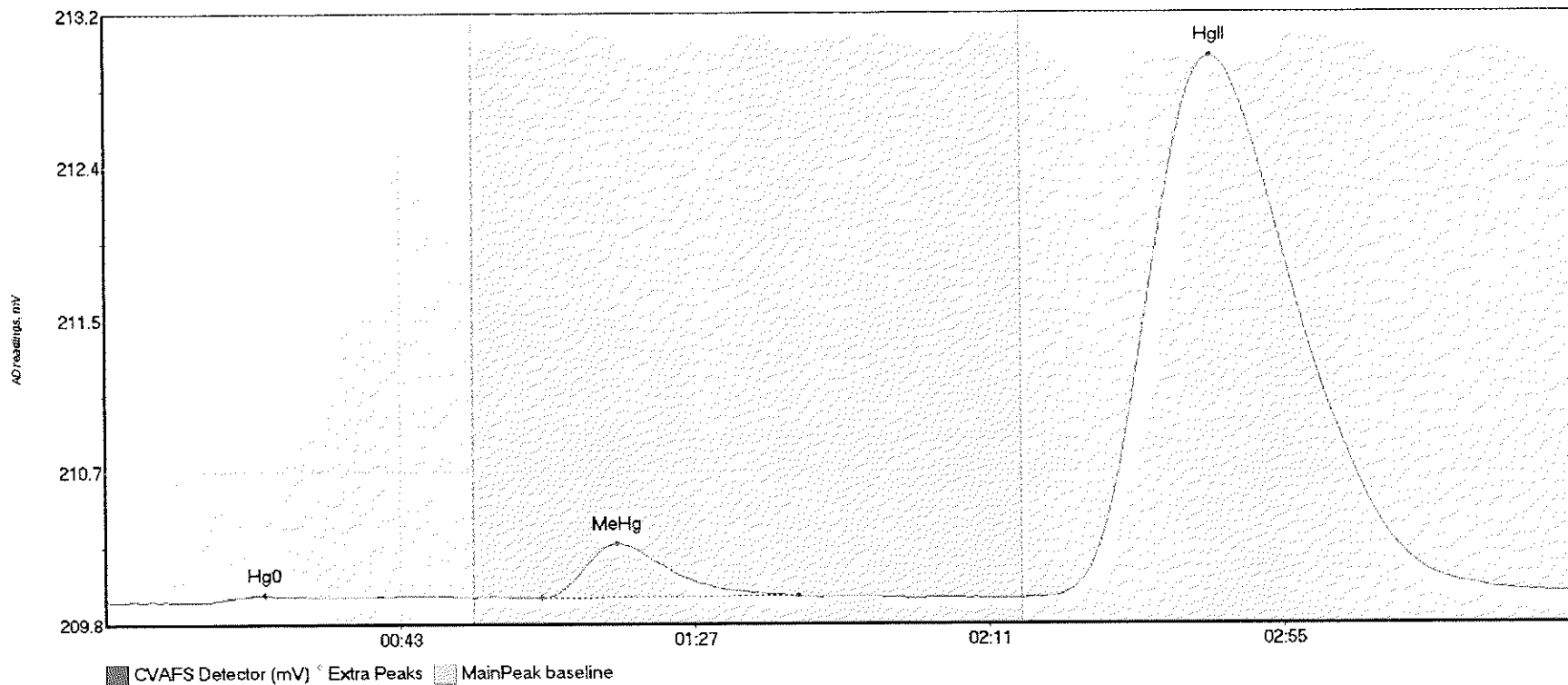
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	5.973	12.6	49.9	209.93	209.95	22.7	0.035	OK	209.9250	0.00	0.03	
SEQ-CCV4 MeHg	254.922	63.4	115.6	209.95	209.96	76.6	1.681	OK	209.9250	0.00	0.03	
SEQ-CCV4 HgII	13.185	148.3	211.1	209.95	209.95	161.5	0.046	OK	209.9250	0.00	0.03	

#60: SEQ-CCB4



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	7.370	5.0	53.6	209.92	209.95	45.6	0.043	OK	209.9192	0.00	0.03	
SEQ-CCB4 HgII	3.034	152.5	181.5	209.95	209.95	169.4	0.021	OK	209.9192	0.00	0.03	117

#61: 1708557-27

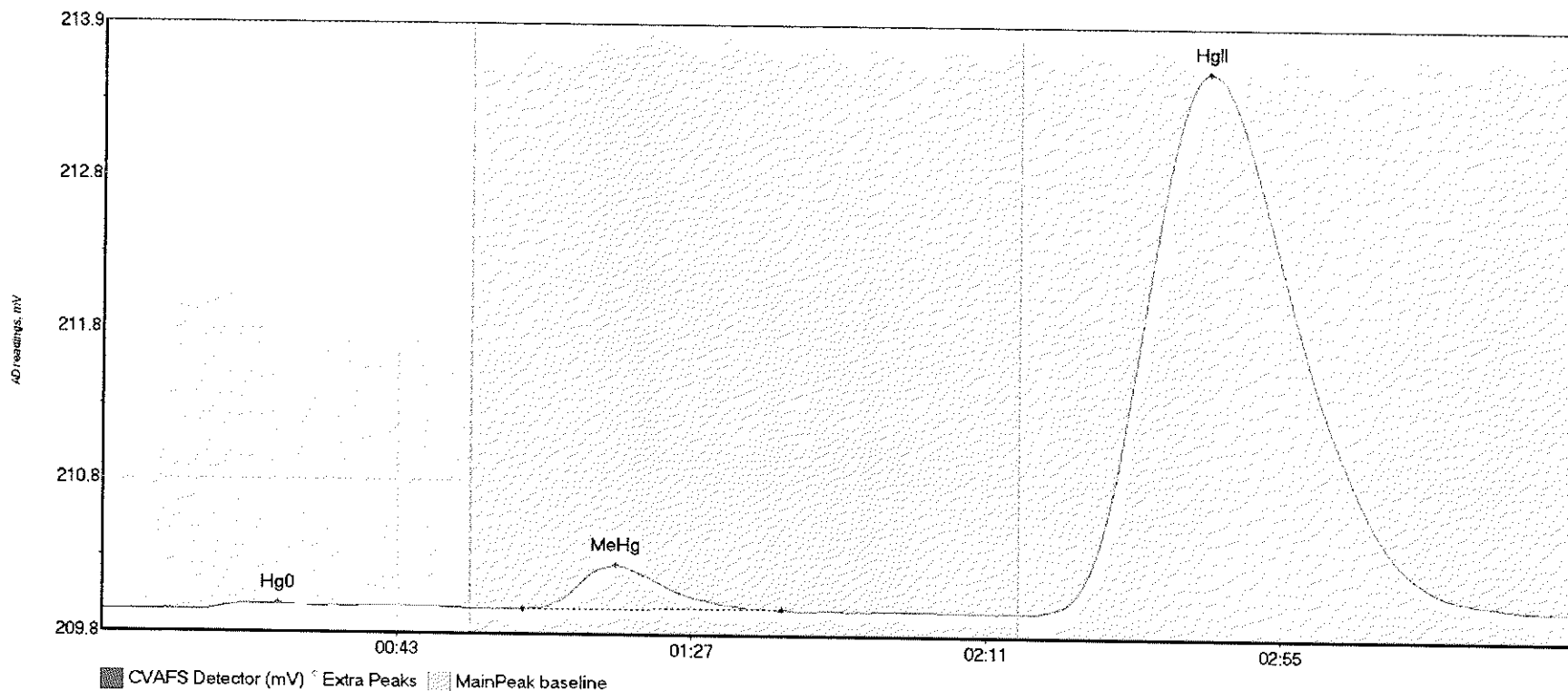


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-27 Hg0	6.755	15.1	55.0	209.93	209.96	23.9	0.040	CT	209.9341	0.00	0.04	
1708557-27 MeHg	44.044	65.1	103.5	209.95	209.96	76.4	0.303	OK	209.9341	0.00	0.04	
1708557-27 HgII	776.953	139.7	218.3	209.95	209.98	165.3	3.033	OK	209.9341	0.00	0.04	

017

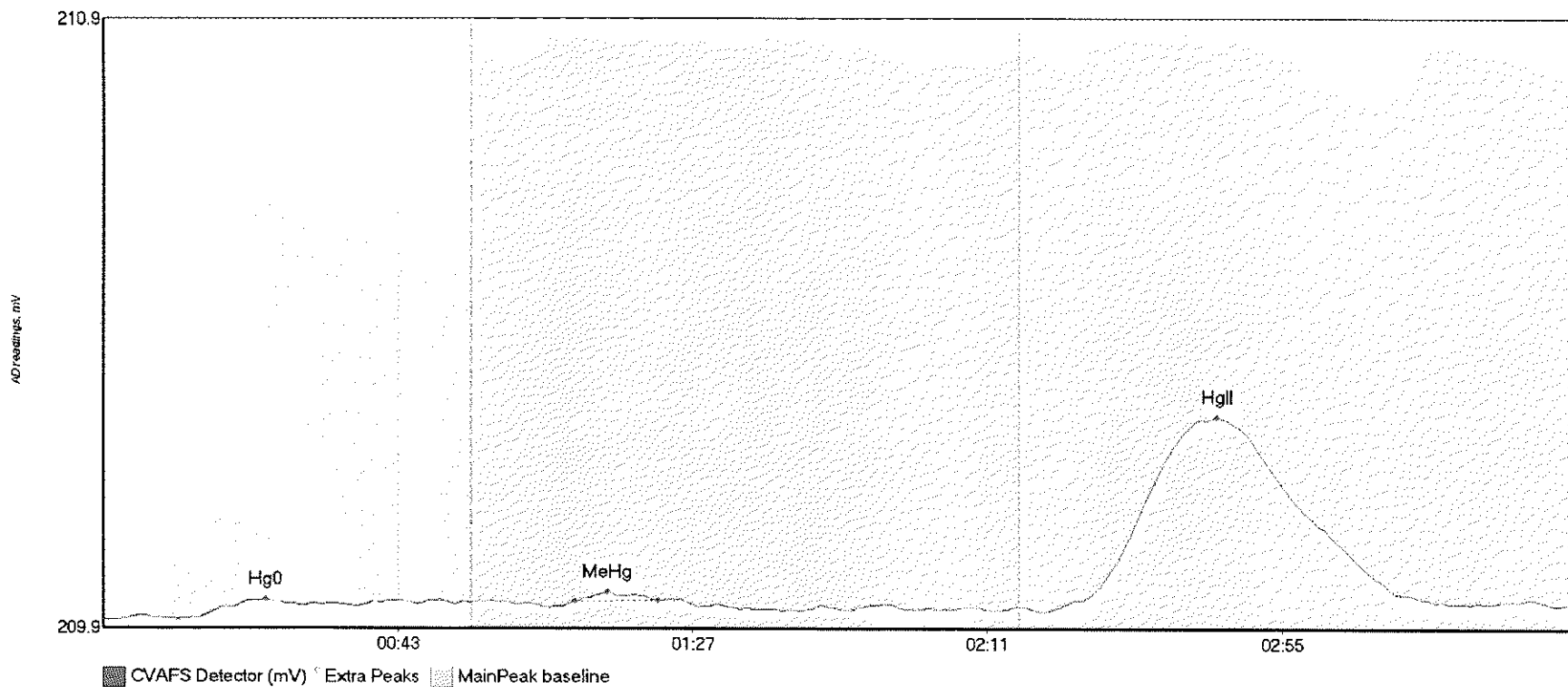


#62: 1708557-28



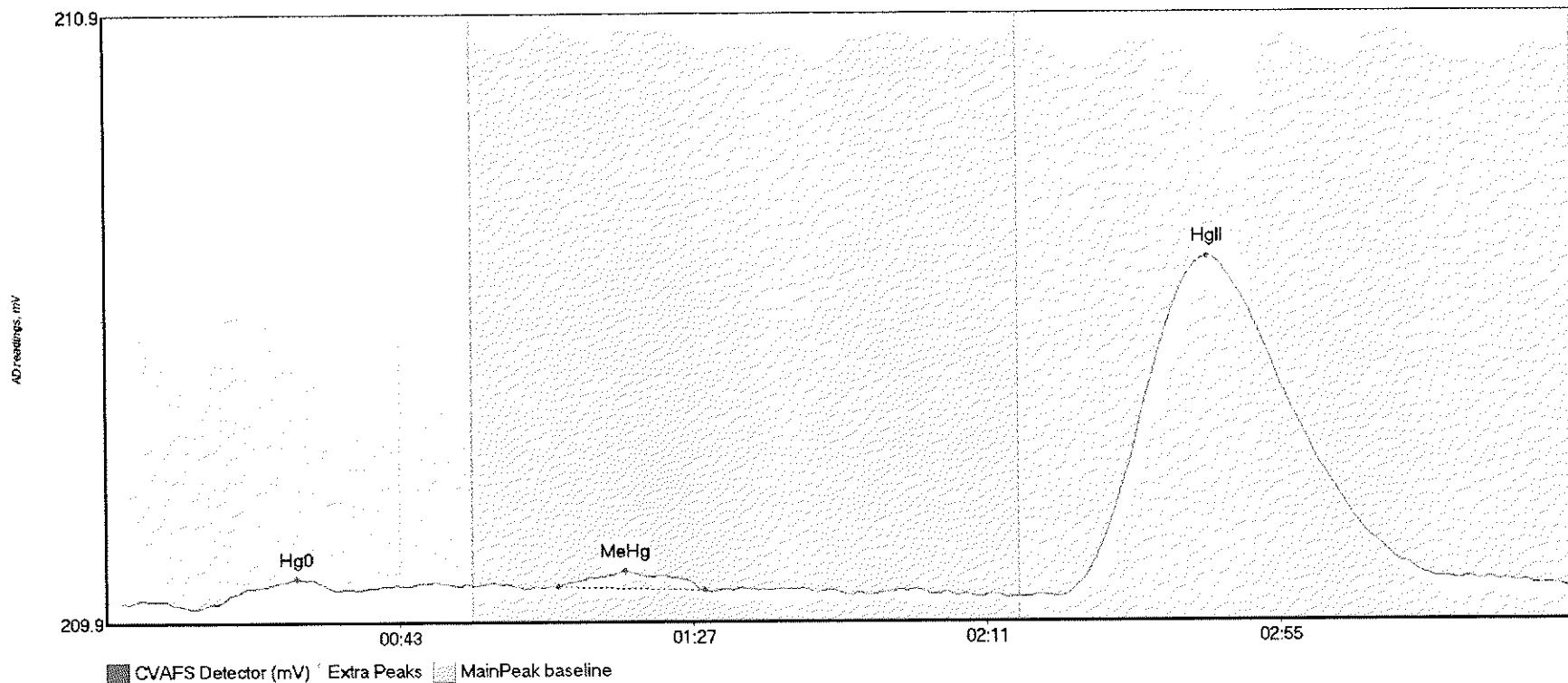
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-28 Hg0	8.558	14.7	55.0	209.94	209.96	26.3	0.045	CT	209.9466	0.00	0.05	
1708557-28 MeHg	43.003	62.9	101.6	209.96	209.97	76.8	0.291	OK	209.9466	0.00	0.05	
1708557-28 HgII	934.650	139.4	219.1	209.96	210.00	165.0	3.612	OK	209.9466	0.00	0.05	

#63: 1708557-29



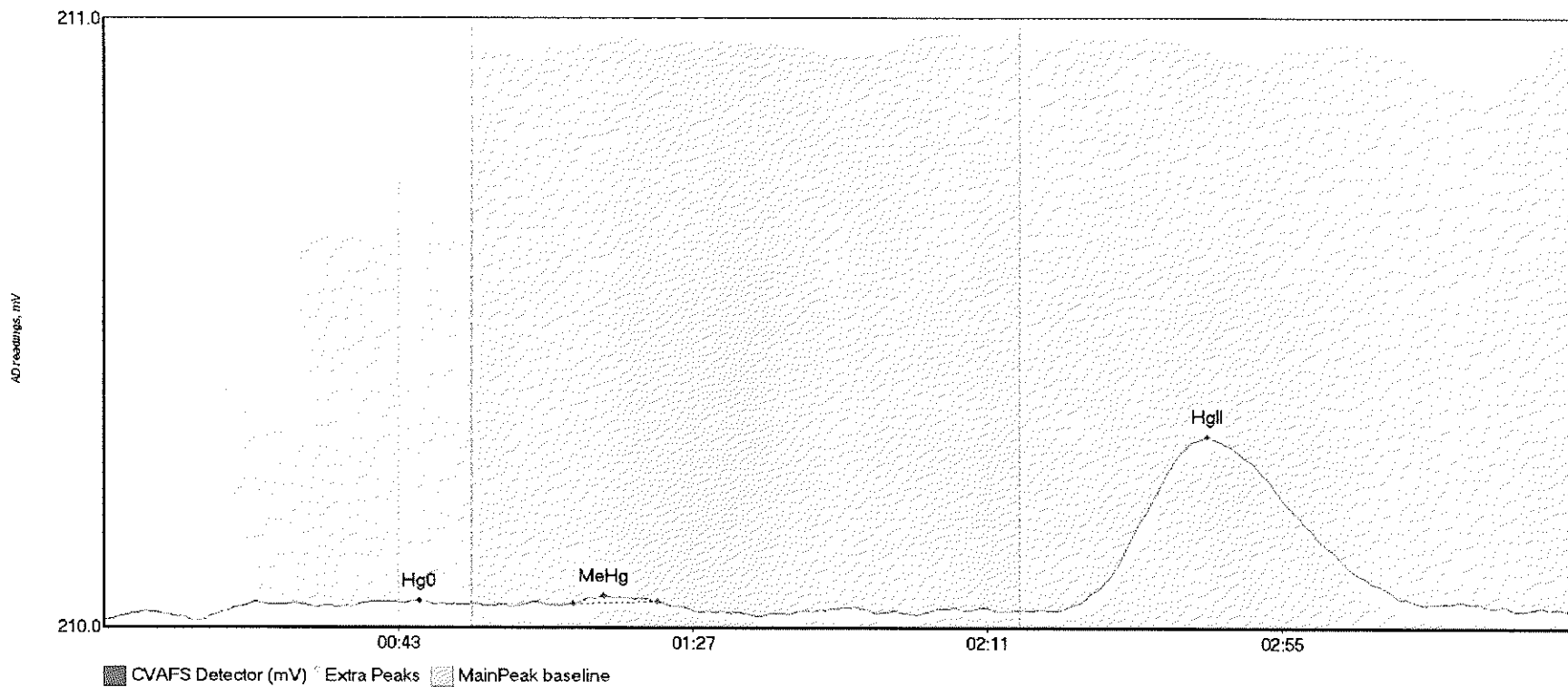
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-29 Hg0	2.791	13.9	37.9	209.95	209.97	24.3	0.030	OK	209.9473	0.00	0.03	
1708557-29 MeHg	1.017	70.4	82.9	209.98	209.98	75.3	0.016	OK	209.9473	0.00	0.03	
1708557-29 HgII	83.883	140.7	216.9	209.96	209.97	166.3	0.321	OK	209.9473	0.00	0.03	

#64: 1708557-30



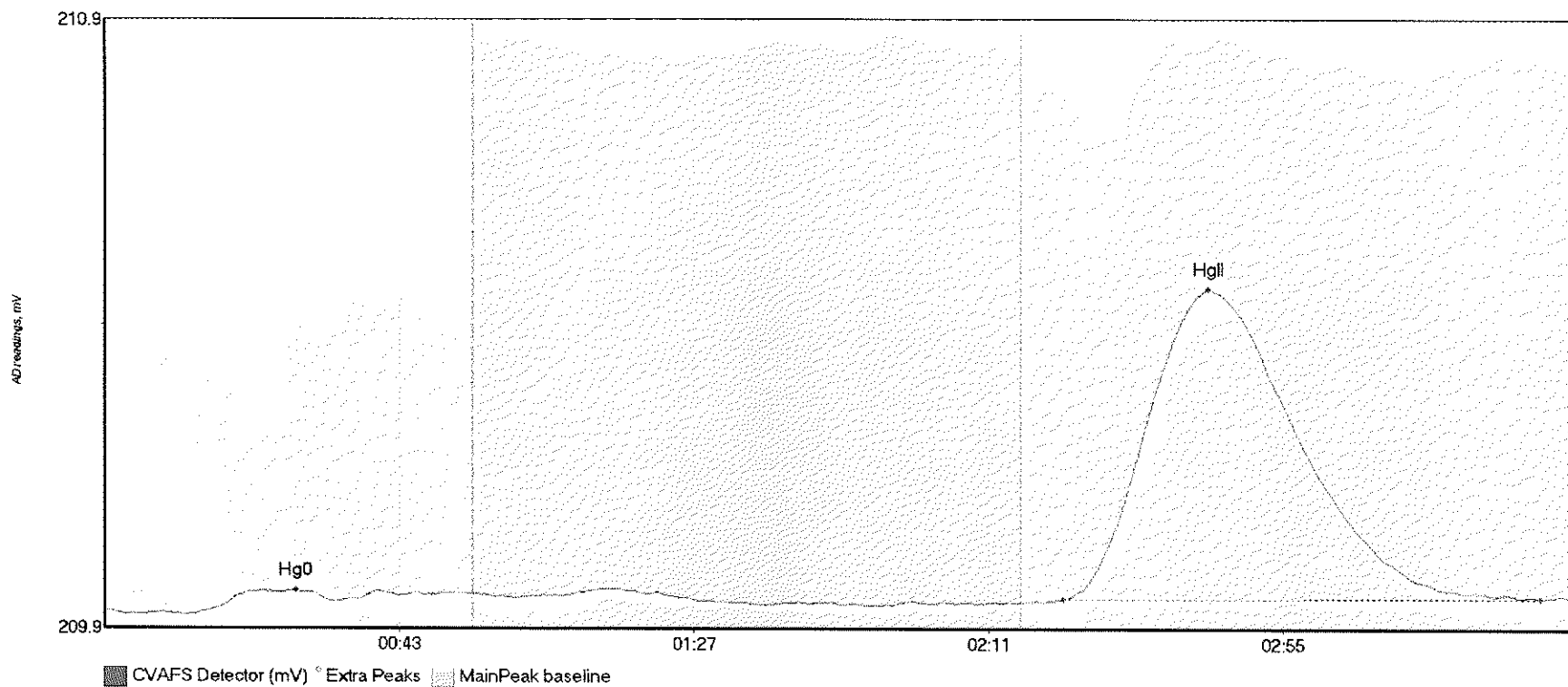
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-30 Hg0	2.995	16.6	34.7	209.95	209.97	28.6	0.041	OK	209.9559	0.00	0.02	
1708557-30 MeHg	3.798	67.8	89.7	209.98	209.97	77.9	0.025	OK	209.9559	0.00	0.02	
1708557-30 HgII	144.721	143.2	219.1	209.96	209.98	165.3	0.558	OK	209.9559	0.00	0.02	

#65: 1708557-31



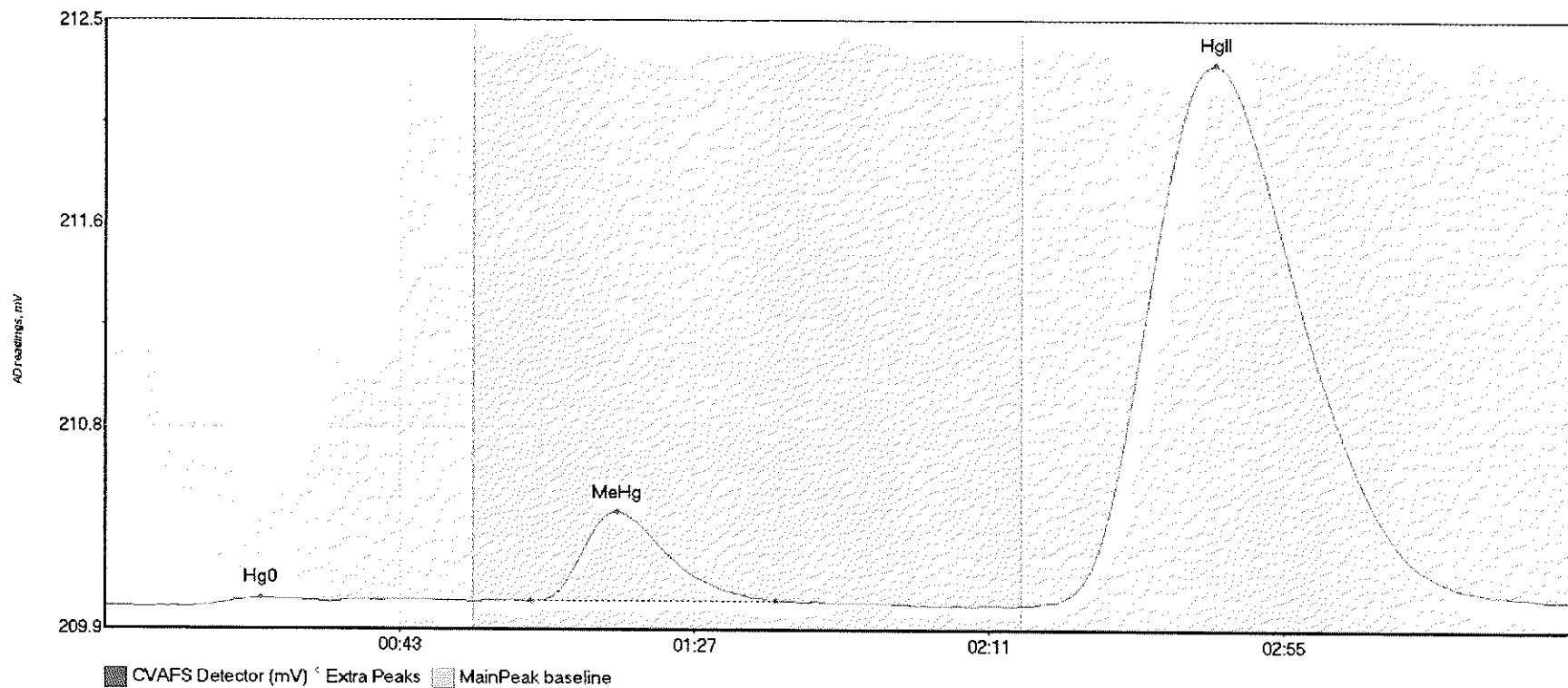
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-31 Hg0	4.354	14.7	51.6	209.97	209.99	47.1	0.032	OK	209.9657	0.00	0.02	
1708557-31 MeHg	0.916	70.2	82.8	209.99	209.99	74.7	0.014	OK	209.9657	0.00	0.02	
1708557-31 HgII	72.822	143.1	207.8	209.98	209.99	164.9	0.284	OK	209.9657	0.00	0.02	

#66: 1708557-32



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-32 Hg0	3.143	15.2	34.4	209.97	209.99	28.6	0.033	OK	209.9702	0.00	0.02	
1708557-32 HgII	131.193	143.2	214.6	209.99	209.99	164.9	0.511	OK	209.9702	0.00	0.02	017

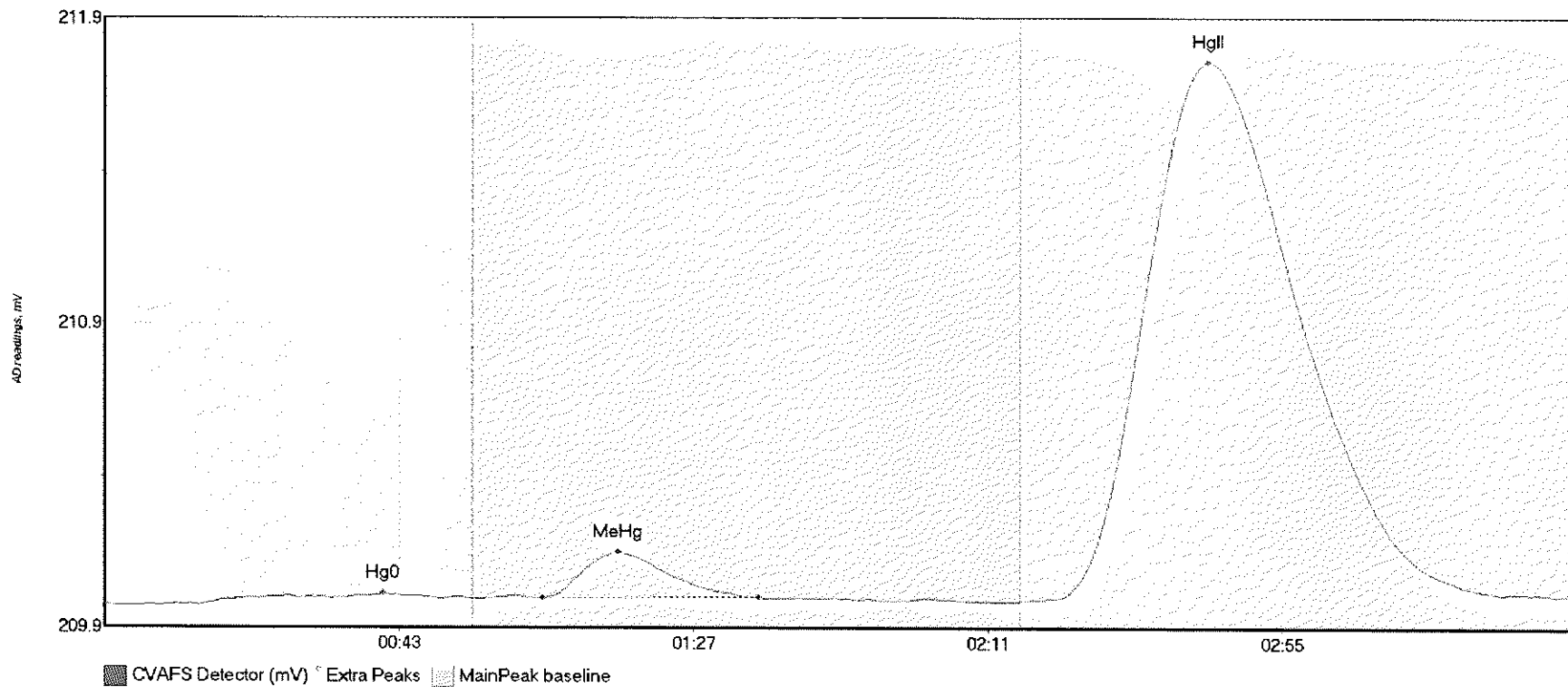
#67: 1708557-33



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-33 Hg0	2.906	12.7	33.7	209.98	210.00	23.3	0.038	OK	209.9805	0.00	0.03	
1708557-33 MeHg	56.396	63.6	100.1	210.00	210.01	76.4	0.388	OK	209.9805	0.00	0.03	
1708557-33 HgII	610.436	138.7	217.5	209.99	210.01	165.7	2.334	OK	209.9805	0.00	0.03	

017

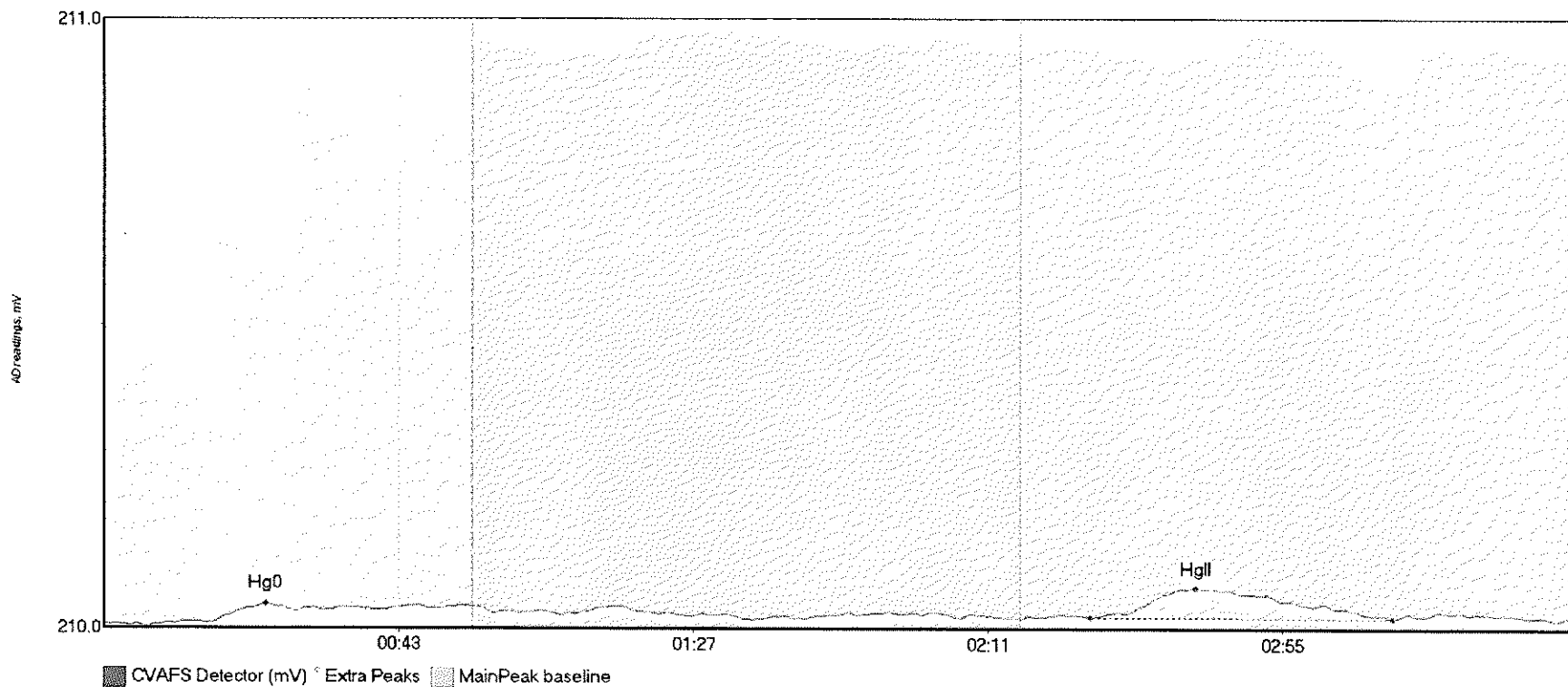
#68: 1708557-34



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-34 Hg0	6.356	14.1	55.0	209.99	210.01	41.6	0.038	CT	209.9879	0.00	0.03	
1708557-34 MeHg	21.486	65.4	97.7	210.01	210.01	76.8	0.150	OK	209.9879	0.00	0.03	
1708557-34 HgII	464.422	139.8	217.0	210.00	210.02	164.9	1.777	OK	209.9879	0.00	0.03	

017

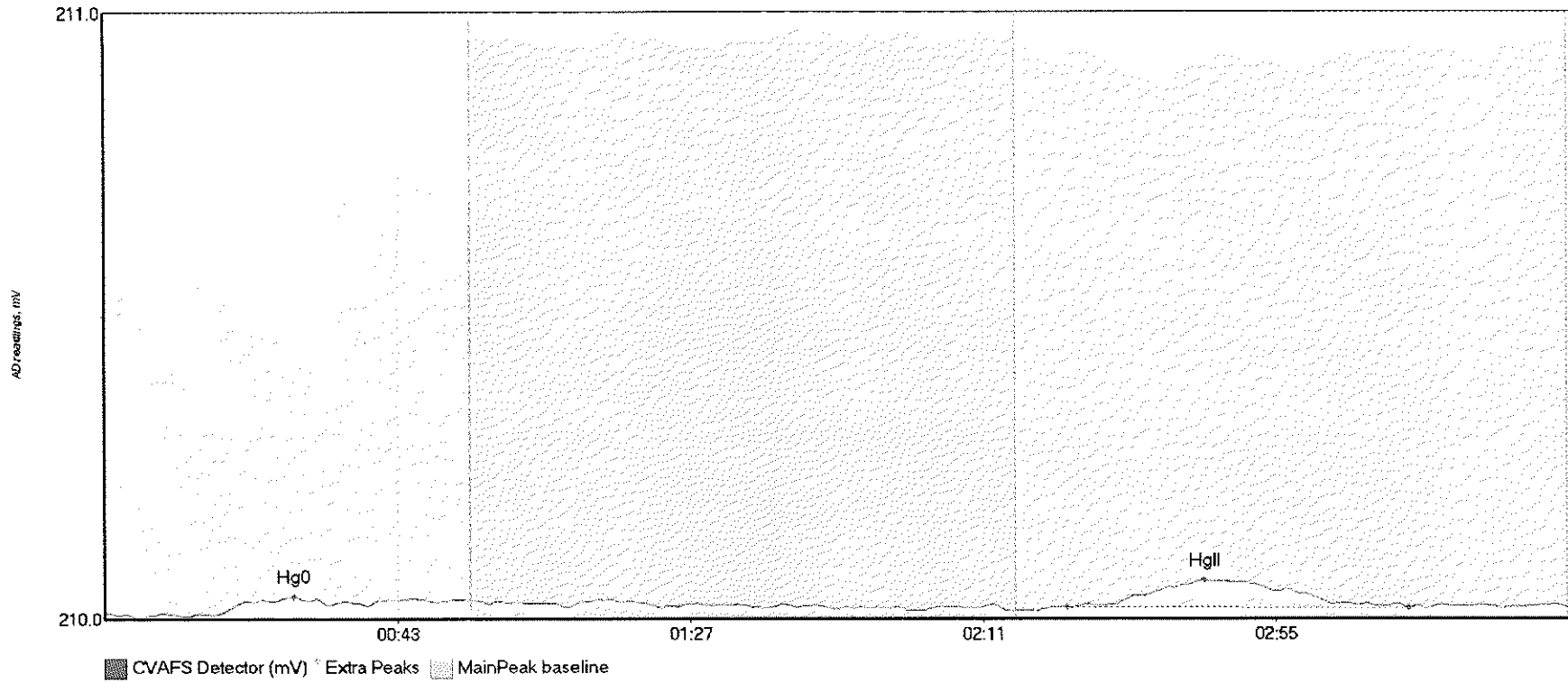
#69: F708535-BLK1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708535-BLK1 Hg	1.361	15.8	28.8	210.00	210.02	24.2	0.031	OK	209.9951	0.00	0.01	
F708535-BLK1 Hg	11.550	147.3	192.4	210.01	210.01	163.0	0.048	OK	209.9951	0.00	0.01	017

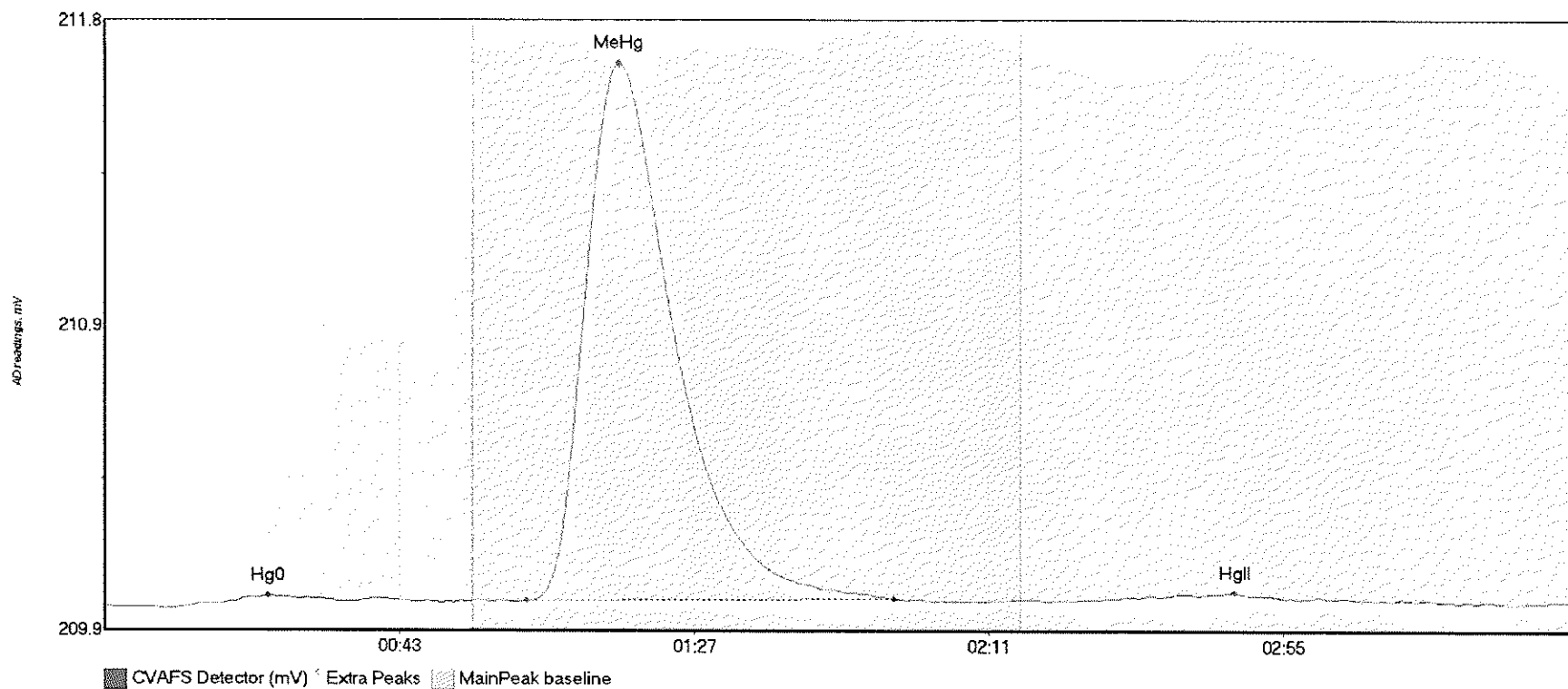


#70: F708535-BLK2



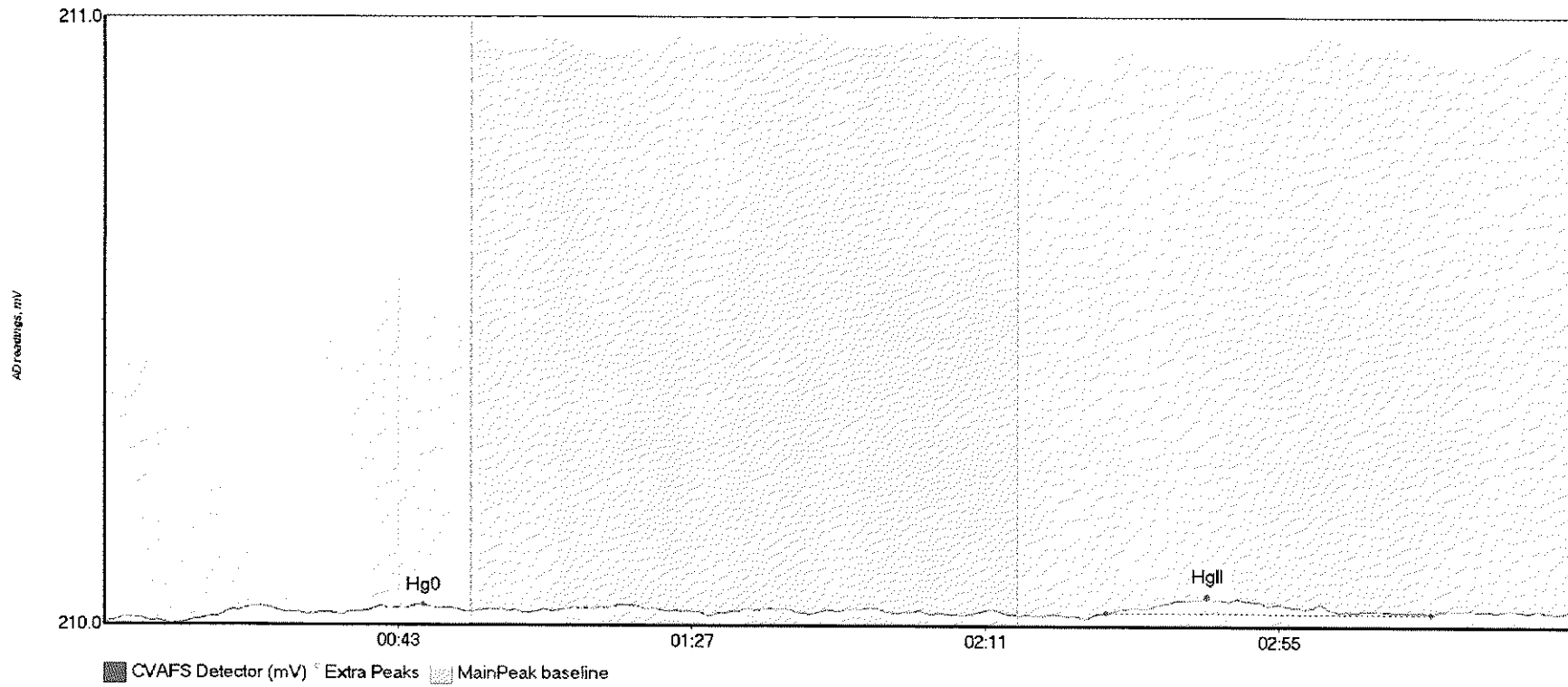
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708535-BLK2 Hg	2.887	16.2	39.4	210.00	210.02	28.4	0.029	OK	210.0050	0.00	0.01	
F708535-BLK2 Hg	10.638	144.6	196.0	210.01	210.01	165.3	0.044	OK	210.0050	0.00	0.01	017

#71: SEQ-CCV5



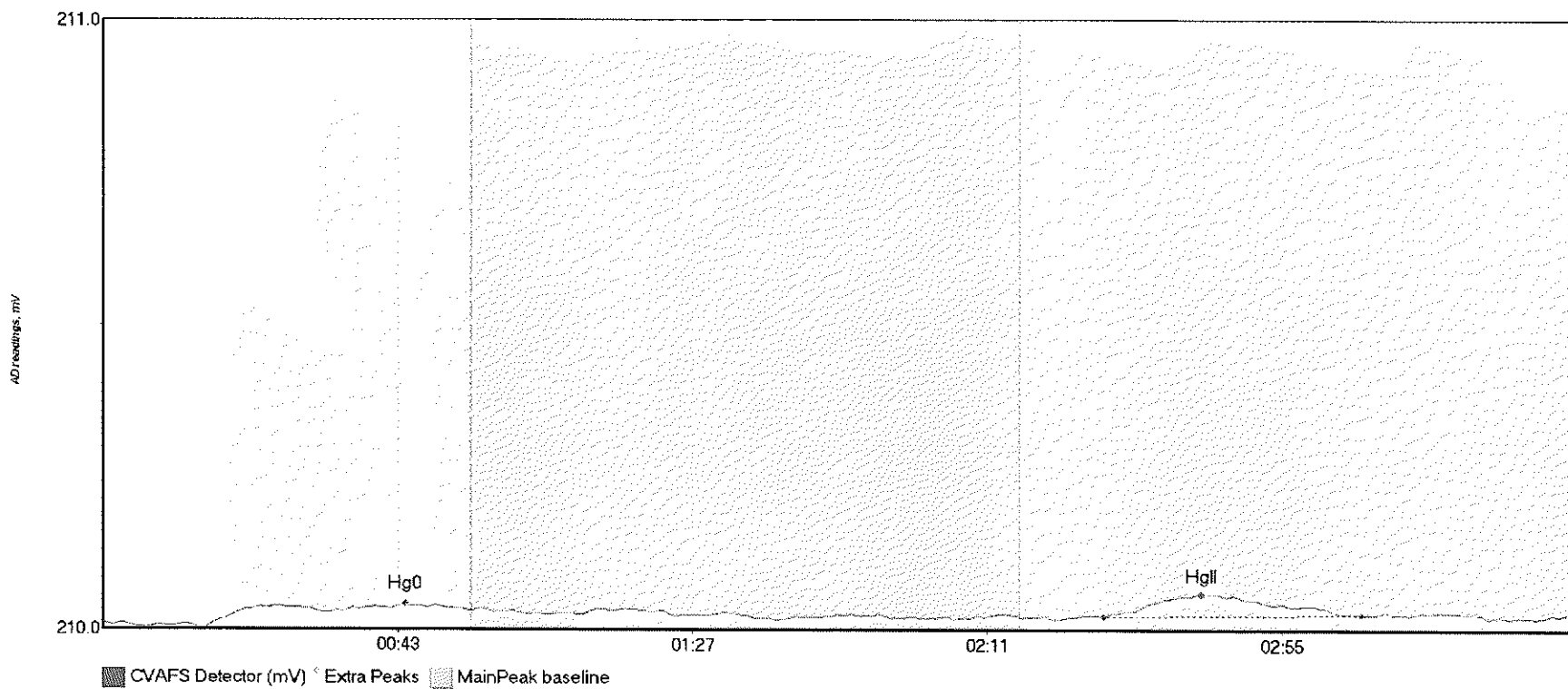
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	5.031	12.5	50.2	210.00	210.02	24.5	0.033	OK	210.0022	0.00	0.01	
SEQ-CCV5 MeHg	256.891	63.0	117.9	210.02	210.02	76.7	1.661	OK	210.0022	0.00	0.01	
SEQ-CCV5 HgII	2.660	151.6	178.6	210.03	210.02	168.7	0.019	OK	210.0022	0.00	0.01	

#72: SEQ-CCB5



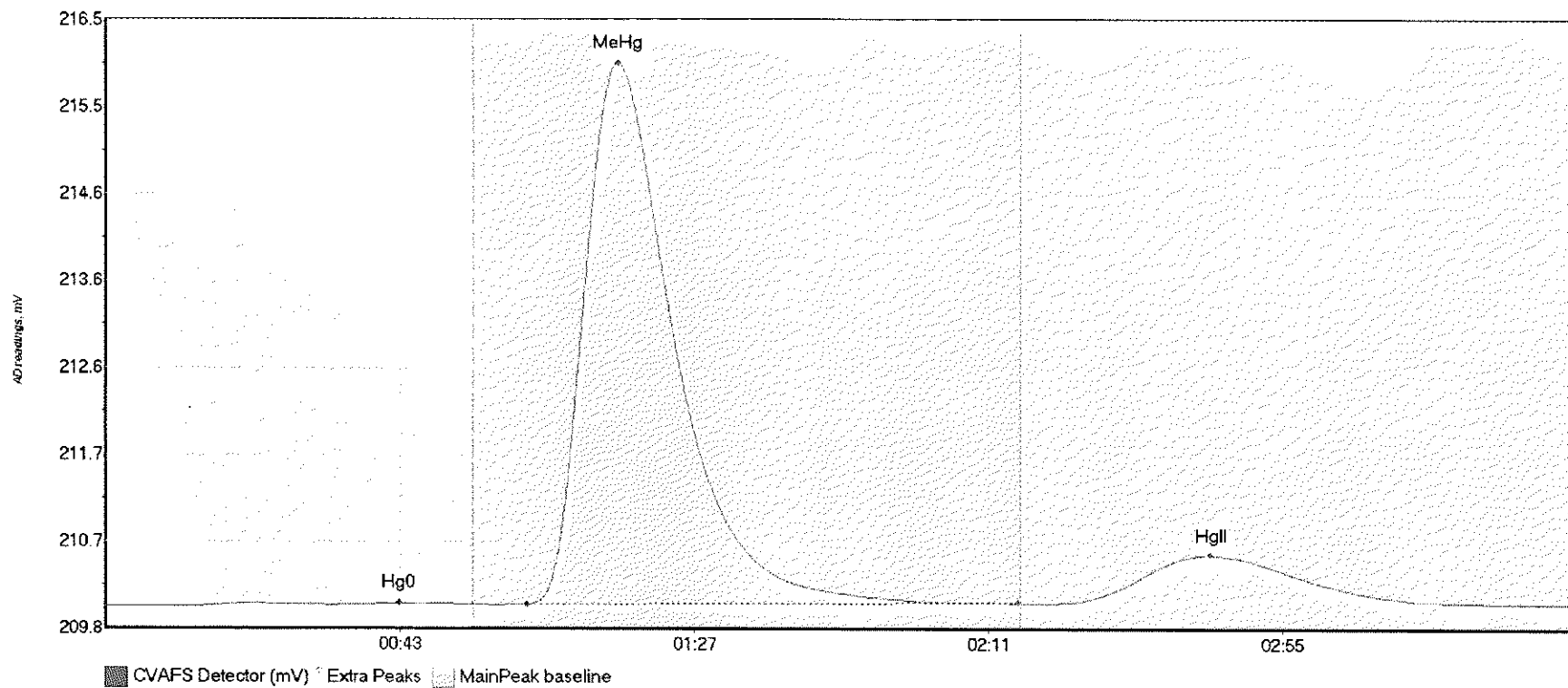
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB5 Hg0	3.275	14.3	54.6	210.00	210.01	47.9	0.023	OK	209.9955	0.00	0.02	
SEQ-CCB5 HgII	5.837	150.2	198.9	210.01	210.01	165.3	0.025	OK	209.9955	0.00	0.02	317

#73: F708535-BLK3



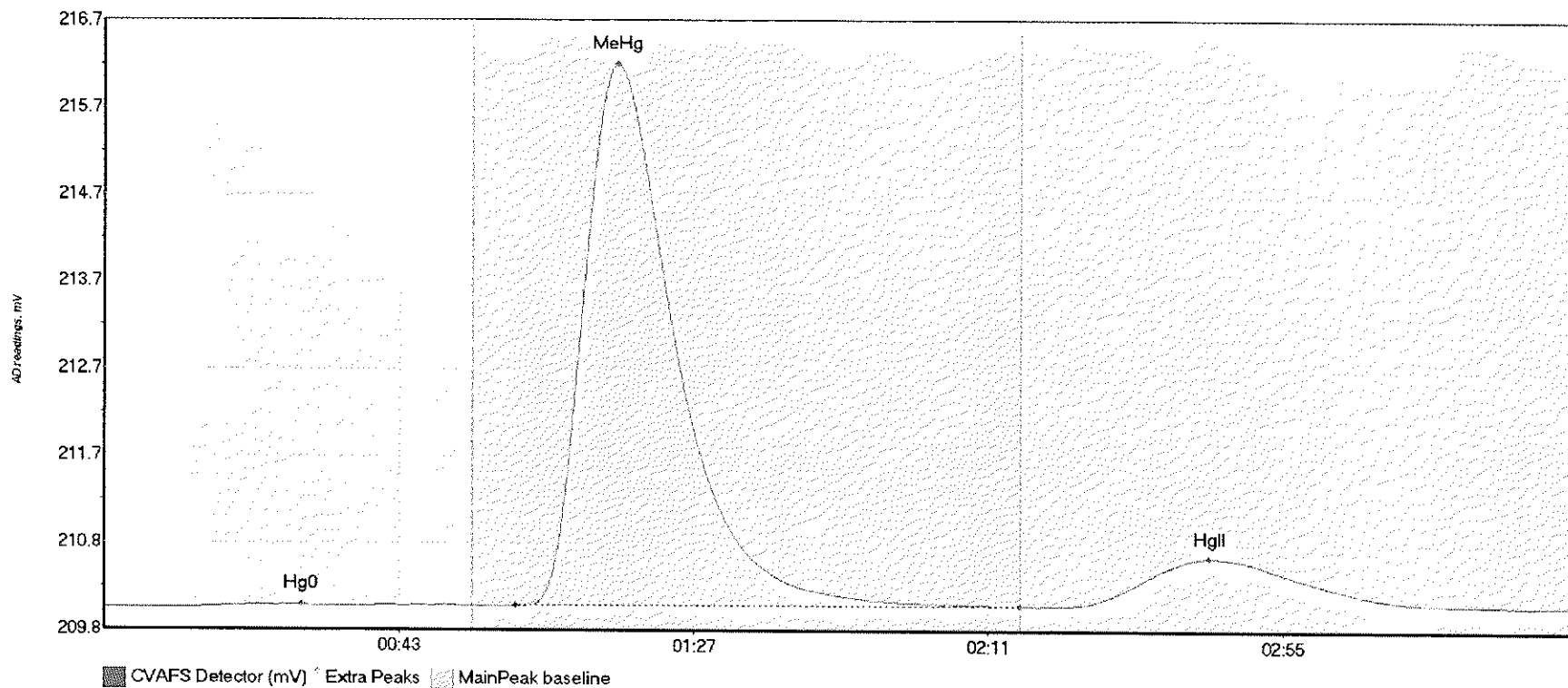
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708535-BLK3 Hg	6.257	14.7	54.7	210.00	210.03	45.1	0.039	OK	210.0056	0.00	0.02	
F708535-BLK3 Hg	7.488	149.5	188.1	210.02	210.02	164.0	0.037	OK	210.0056	0.00	0.02	017

#74: F708535-BS1



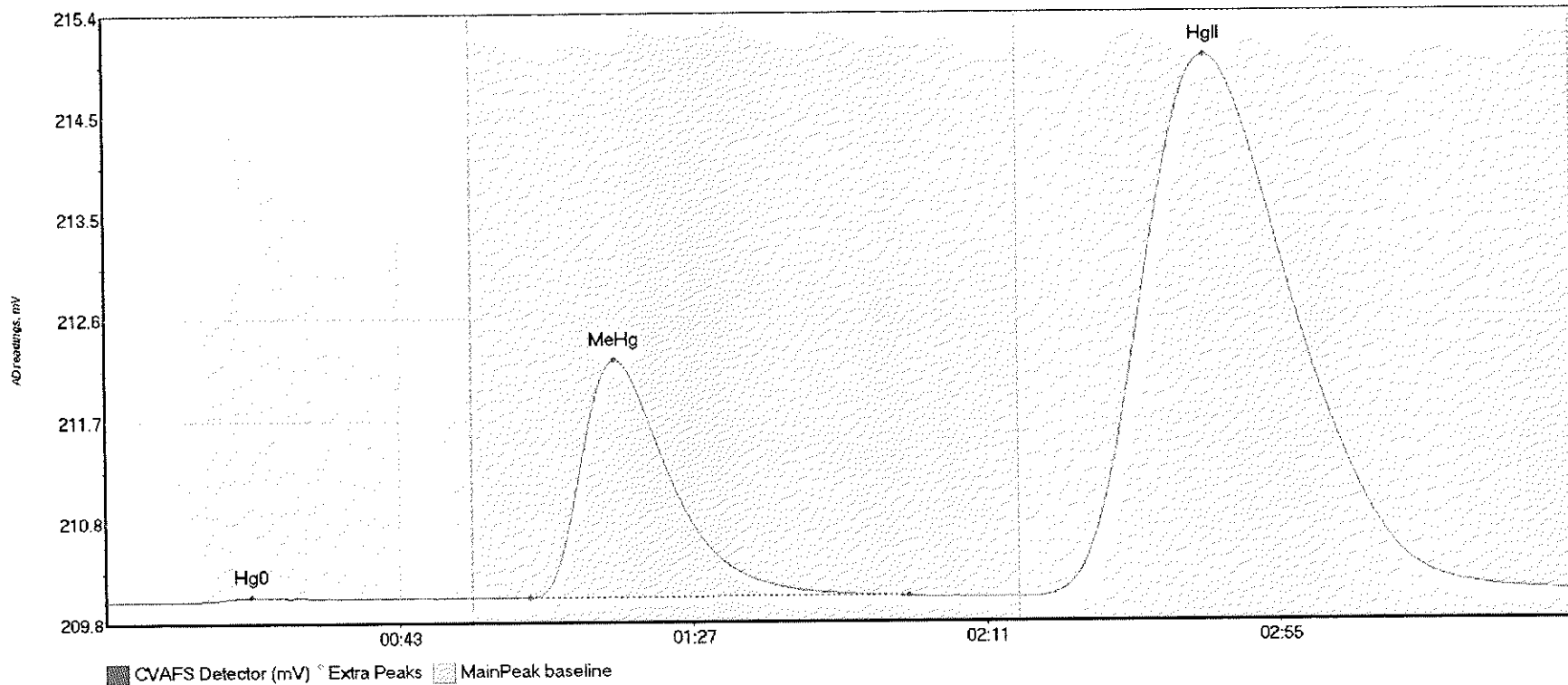
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708535-BS1 Hg0	4.973	13.3	55.0	210.01	210.03	43.8	0.030	CT	210.0078	0.00	0.03	
F708535-BS1 MeH	934.582	63.0	136.4	210.03	210.04	76.6	5.979	OK	210.0078	0.00	0.03	
F708535-BS1 HgI	138.558	142.6	206.6	210.05	210.05	165.3	0.534	OK	210.0078	0.00	0.03	

#75: F708535-BSD1



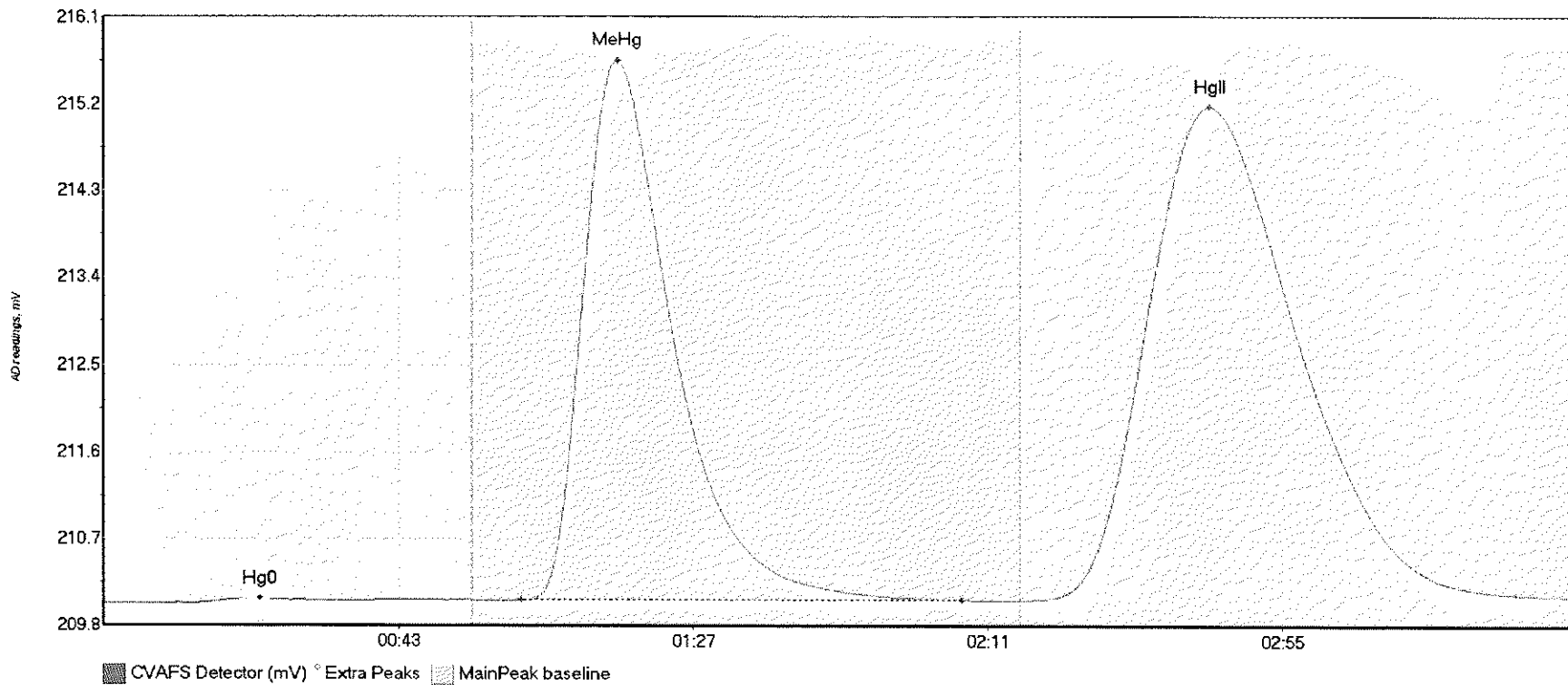
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708535-BSD1 Hg	5.527	13.4	55.0	210.02	210.04	29.5	0.031	CT	210.0182	0.00	0.03	
F708535-BSD1 Me	968.230	61.5	136.8	210.04	210.05	76.6	6.132	CT	210.0182	0.00	0.03	
F708535-BSD1 Hg	145.284	142.7	216.3	210.05	210.04	165.1	0.547	OK	210.0182	0.00	0.03	

#76: F708535-DUP1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708535-DUP1 Hg	5.169	13.4	49.5	210.03	210.05	21.8	0.037	OK	210.0281	0.00	0.06	
F708535-DUP1 Me	337.674	63.6	120.3	210.05	210.05	76.5	2.176	OK	210.0281	0.00	0.06	
F708535-DUP1 Hg	1296.073	138.6	219.8	210.04	210.09	165.2	4.962	CT	210.0281	0.00	0.06	

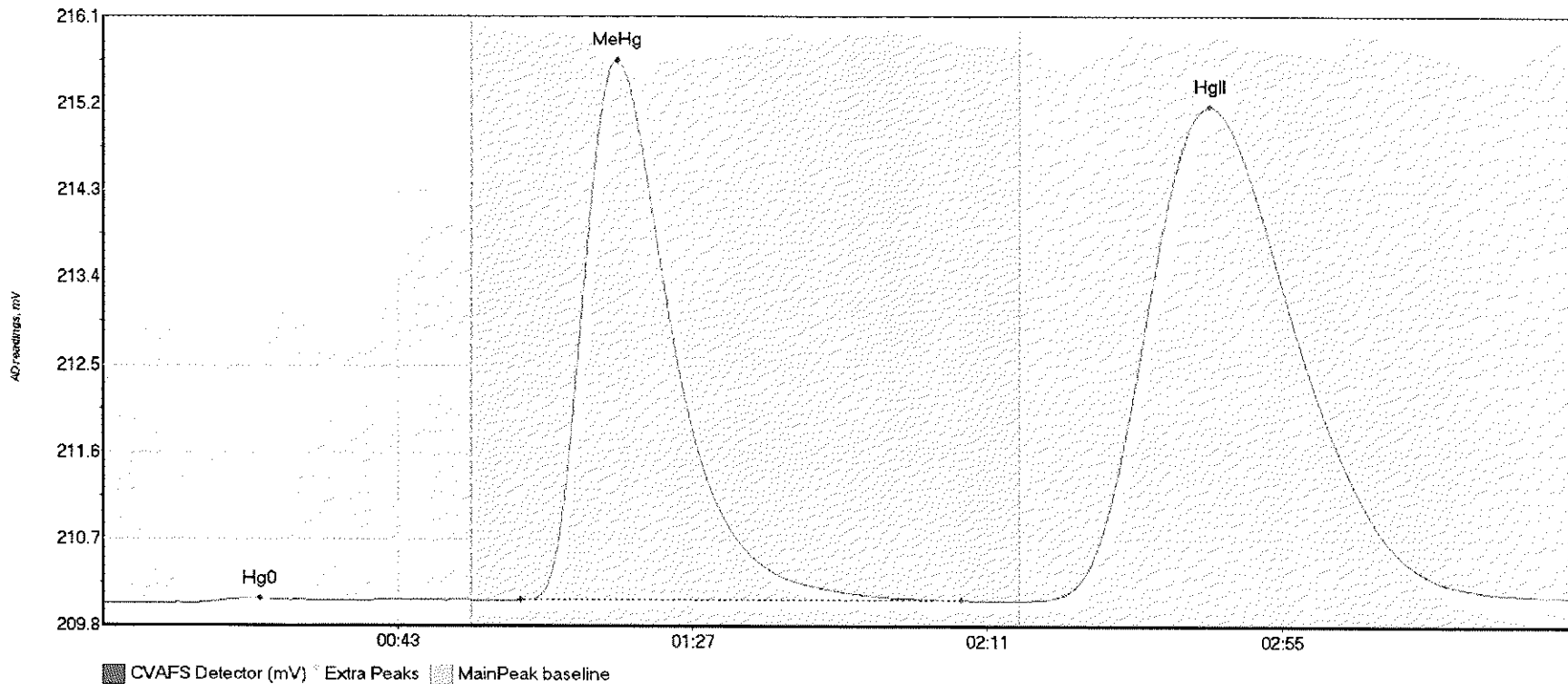
#77: F708535-MS1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F708535-MS1	Hg0	3.658	13.5	33.6	210.02	210.05	23.5	0.048	OK	210.0218	0.00	0.07	
F708535-MS1	MeH	873.149	62.3	128.2	210.05	210.06	76.7	5.622	OK	210.0218	0.00	0.07	
F708535-MS1	HgI	1320.347	138.0	219.8	210.05	210.09	165.2	5.144	CT	210.0218	0.00	0.07	

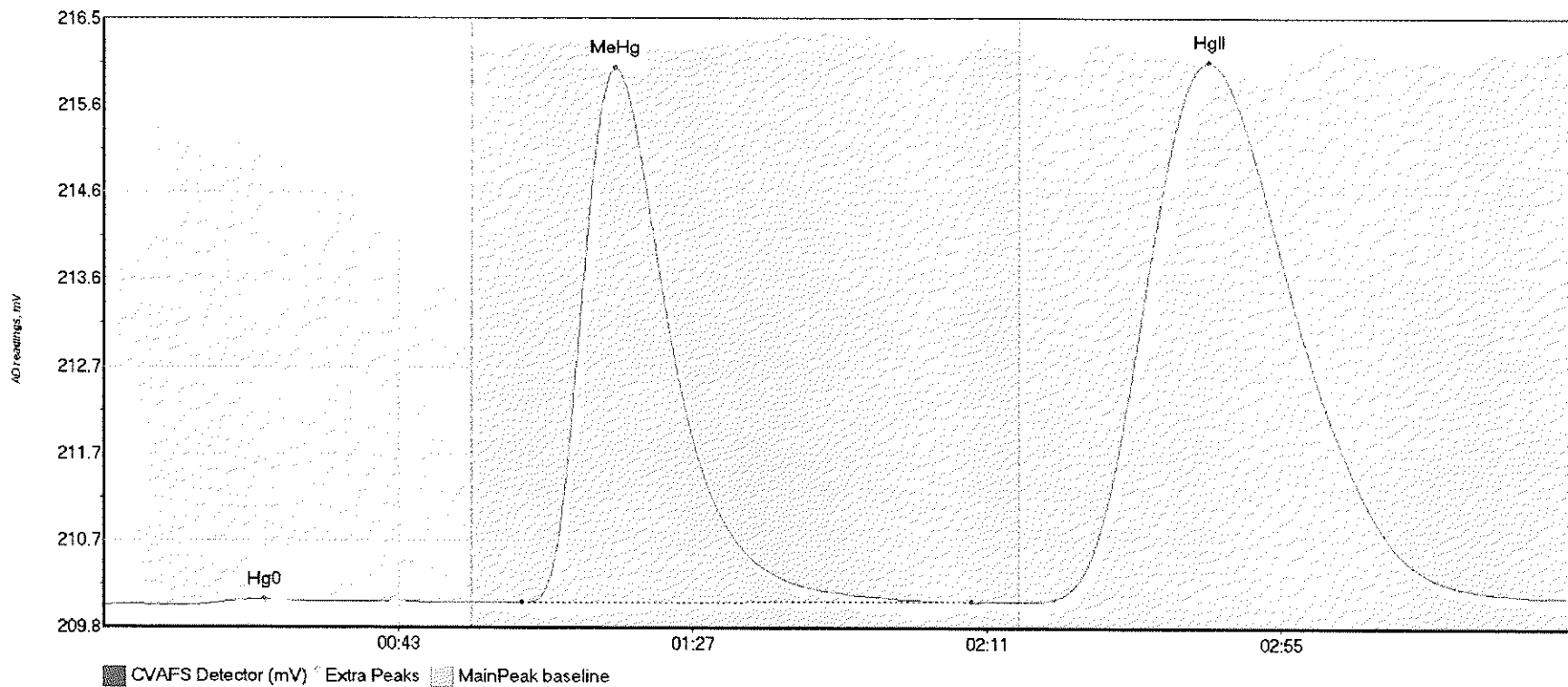


#77: F708535-MS1



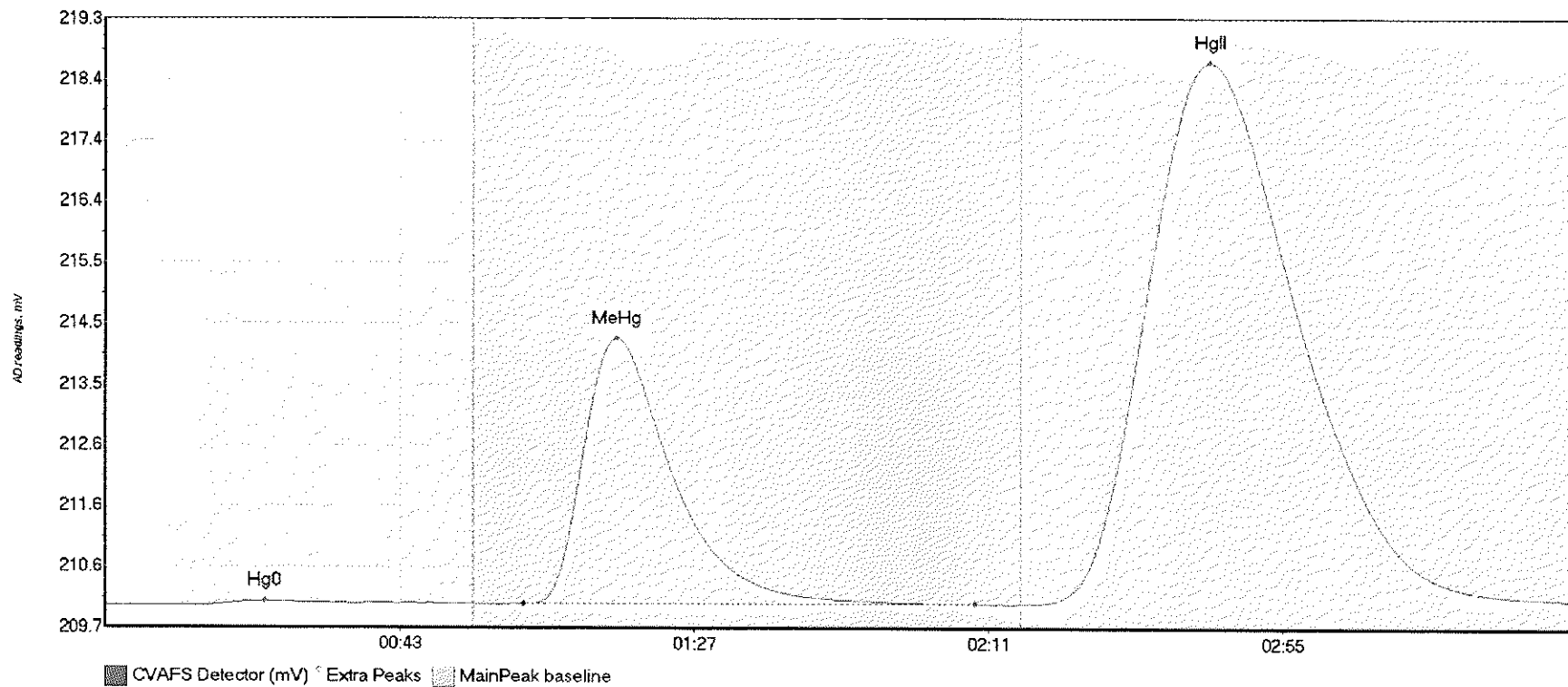
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F708535-MS1	Hg0	3.658	13.5	33.6	210.02	210.05	23.5	0.048	OK	210.0218	0.00	0.07	
F708535-MS1	MeH	873.149	62.3	128.2	210.05	210.06	76.7	5.622	OK	210.0218	0.00	0.07	
F708535-MS1	HgI	1320.347	138.0	219.8	210.05	210.09	165.2	5.144	CT	210.0218	0.00	0.07	

#78: F708535-MSD1



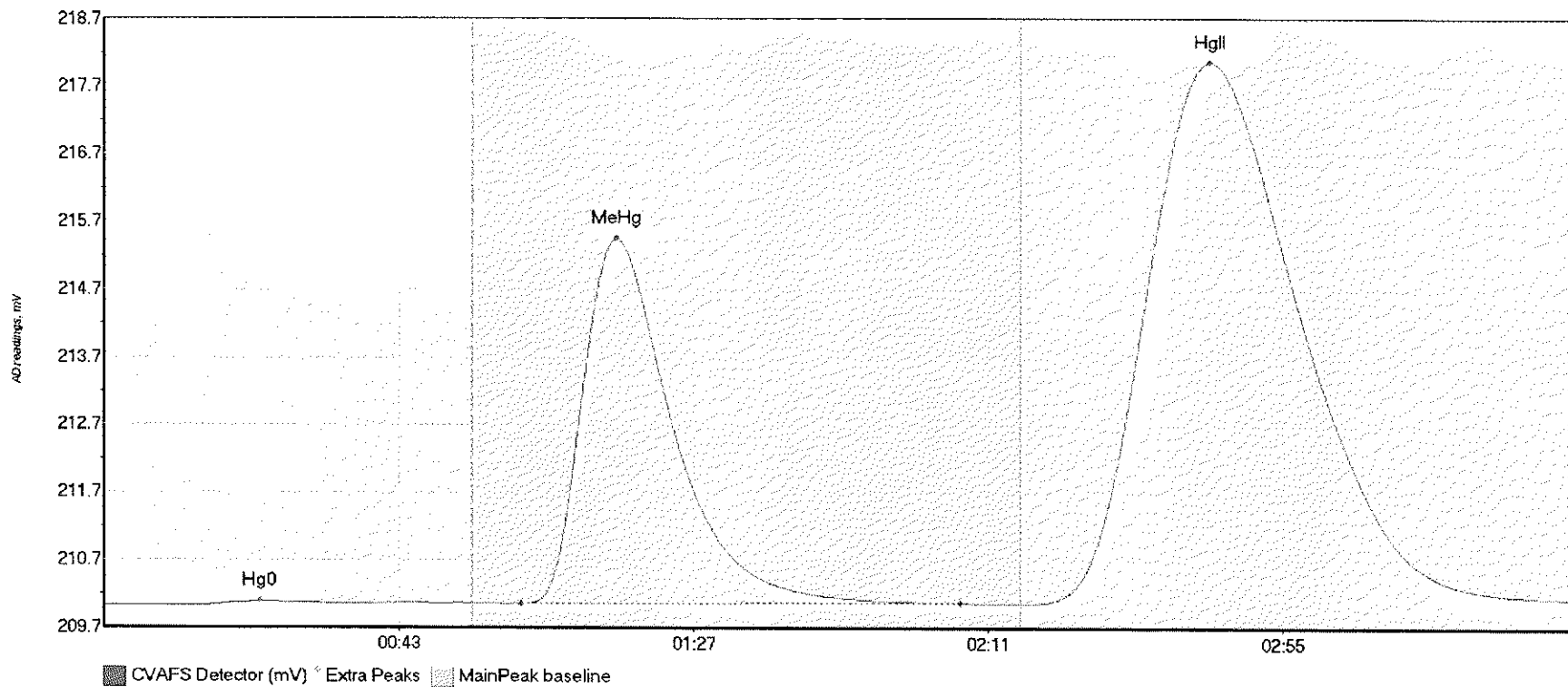
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708535-MSD1 Hg	11.036	12.5	55.0	210.02	210.05	24.0	0.065	CT	210.0227	0.00	0.08	
F708535-MSD1 Me	922.669	62.5	129.8	210.05	210.05	76.5	5.927	OK	210.0227	0.00	0.08	
F708535-MSD1 Hg	1544.965	139.2	219.6	210.06	210.11	165.2	5.981	OK	210.0227	0.00	0.08	

#79: F708535-MS2



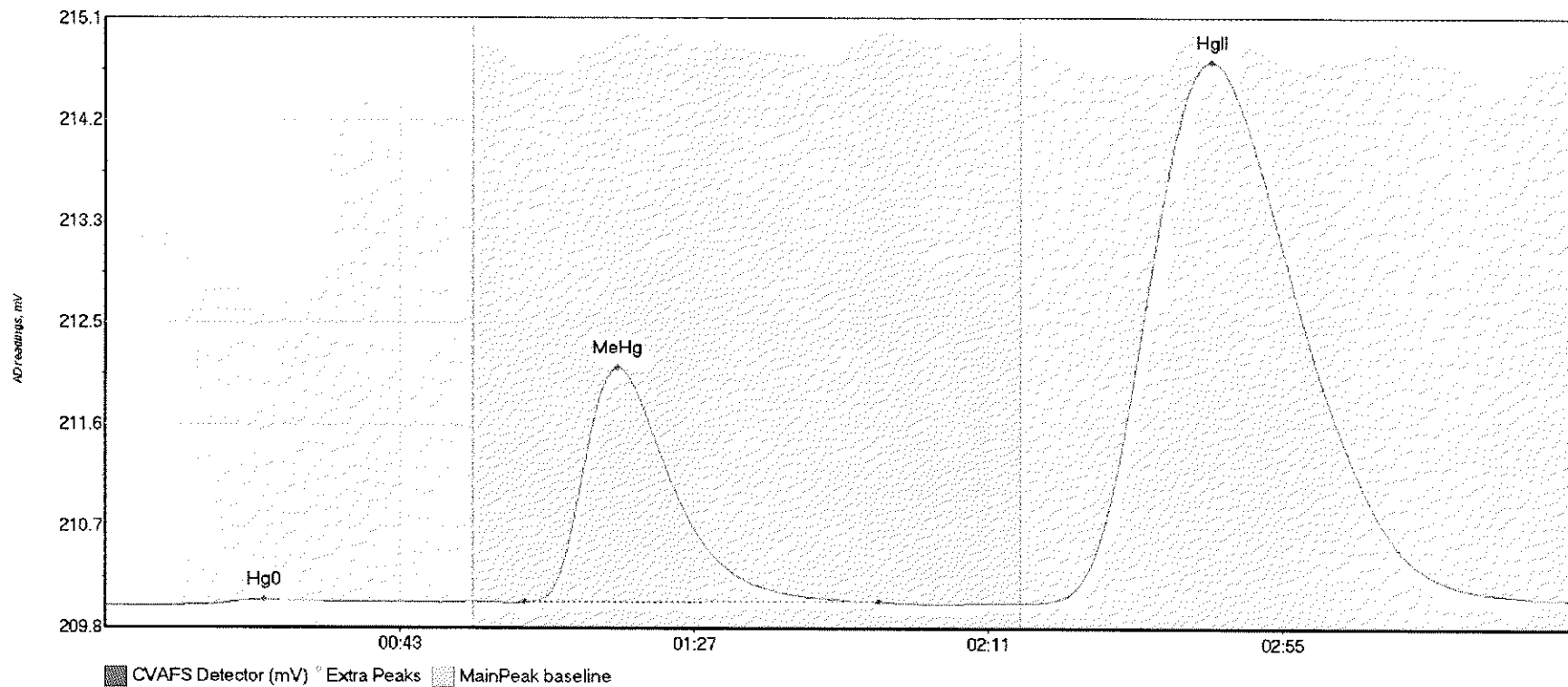
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment	
F708535-MS2	Hg0	10.694	14.8	55.0	210.03	210.05	23.8	0.060	CT	210.0287	0.00	0.09	
F708535-MS2	MeH	650.929	62.4	130.0	210.05	210.06	76.5	4.214	OK	210.0287	0.00	0.09	
F708535-MS2	HgI	2211.120	136.8	219.8	210.05	210.12	165.2	8.572	CT	210.0287	0.00	0.09	

#80: F708535-MSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F708535-MSD2 Hg	7.726	14.8	50.5	210.03	210.06	23.3	0.055	OK	210.0284	0.00	0.10	
F708535-MSD2 Me	842.417	62.3	127.9	210.05	210.07	76.4	5.412	OK	210.0284	0.00	0.10	
F708535-MSD2 Hg	2094.135	139.2	219.8	210.07	210.13	165.1	8.007	CT	210.0284	0.00	0.10	

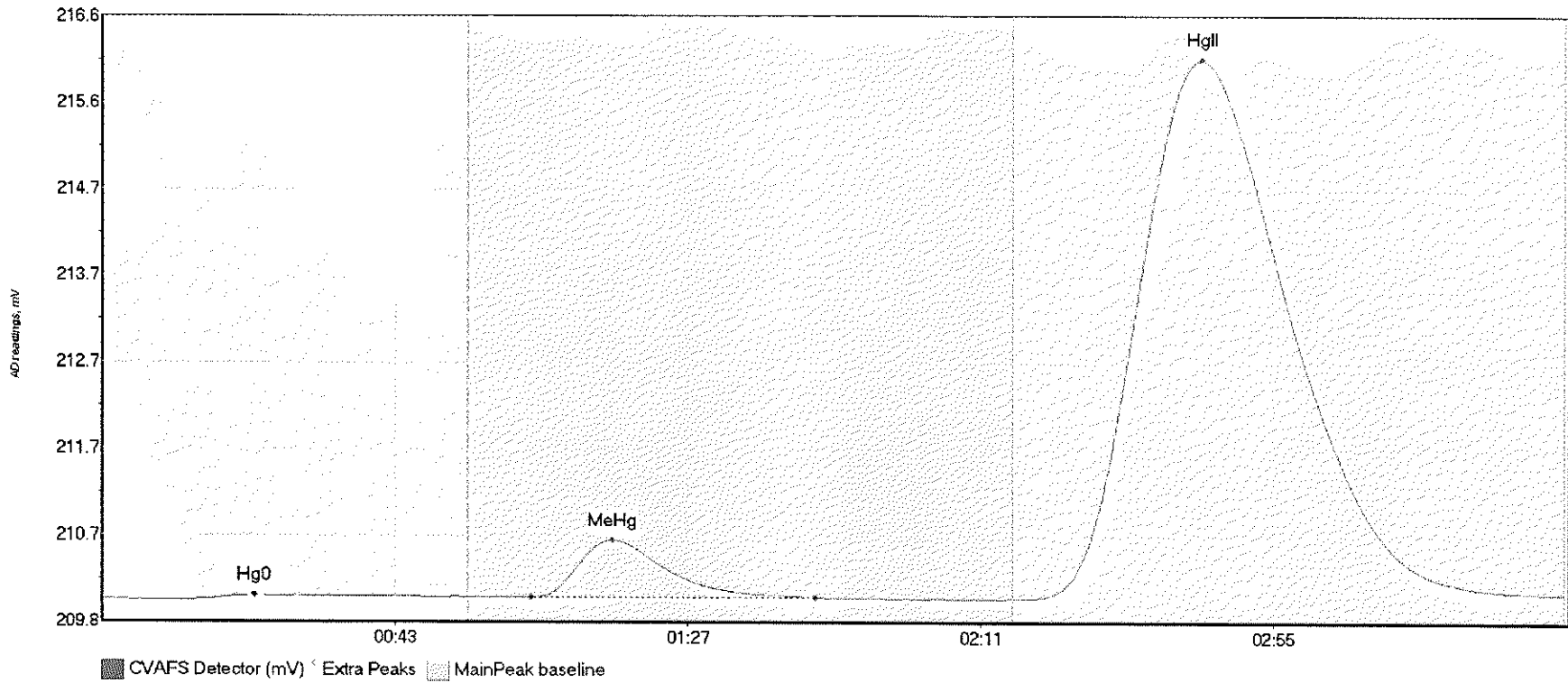
#81: 1708525-11



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708525-11 Hg0	6.434	14.9	50.2	210.03	210.06	23.8	0.043	OK	210.0327	0.00	0.06	
1708525-11 MeHg	308.941	62.7	115.7	210.06	210.06	76.6	2.012	OK	210.0327	0.00	0.06	
1708525-11 HgII	1209.253	139.2	219.8	210.06	210.09	165.4	4.640	CT	210.0327	0.00	0.06	

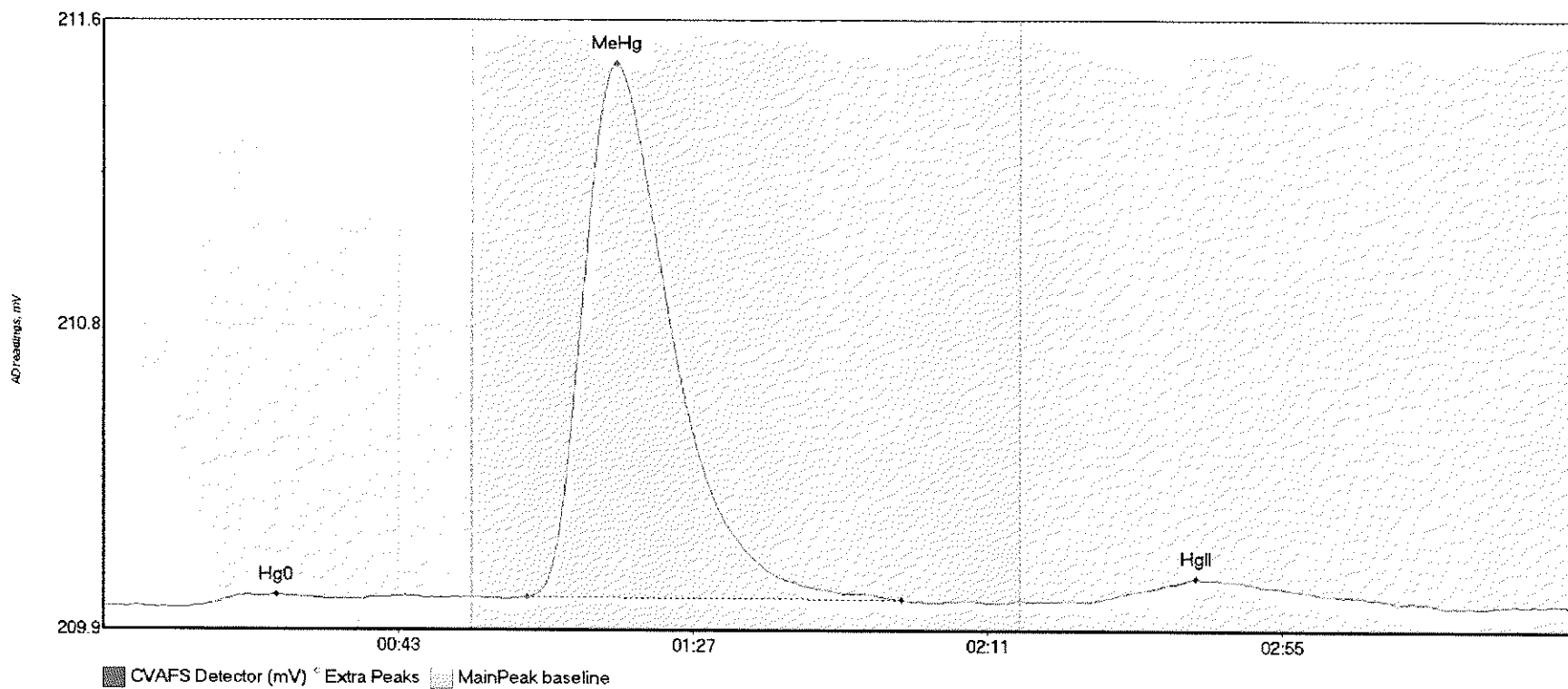
017

#82: 1708524-12



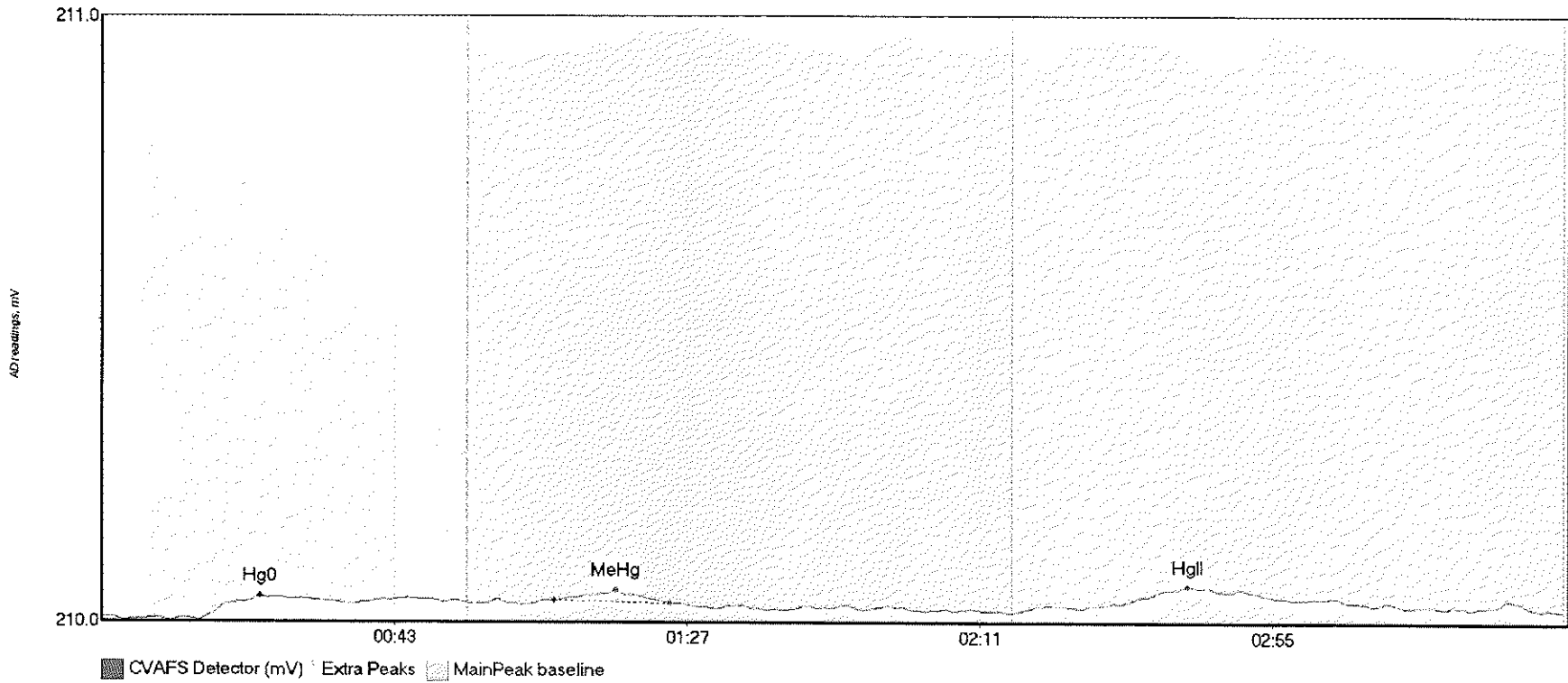
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-12 Hg0	8.601	10.7	50.5	210.01	210.05	22.8	0.057	OK	210.0269	0.00	0.06	
1708524-12 MeHg	96.261	64.5	107.2	210.05	210.05	76.7	0.642	OK	210.0269	0.00	0.06	
1708524-12 HgII	1560.538	140.1	219.7	210.04	210.09	165.3	6.073	OK	210.0269	0.00	0.06	

#83: SEQ-CCV6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV6 Hg0	2.998	14.4	38.5	210.01	210.03	25.8	0.030	OK	210.0149	0.00	0.00	
SEQ-CCV6 MeHg	225.728	63.3	119.1	210.04	210.03	76.6	1.471	OK	210.0149	0.00	0.00	
SEQ-CCV6 HgII	12.121	148.6	189.5	210.03	210.04	163.2	0.059	OK	210.0149	0.00	0.00	

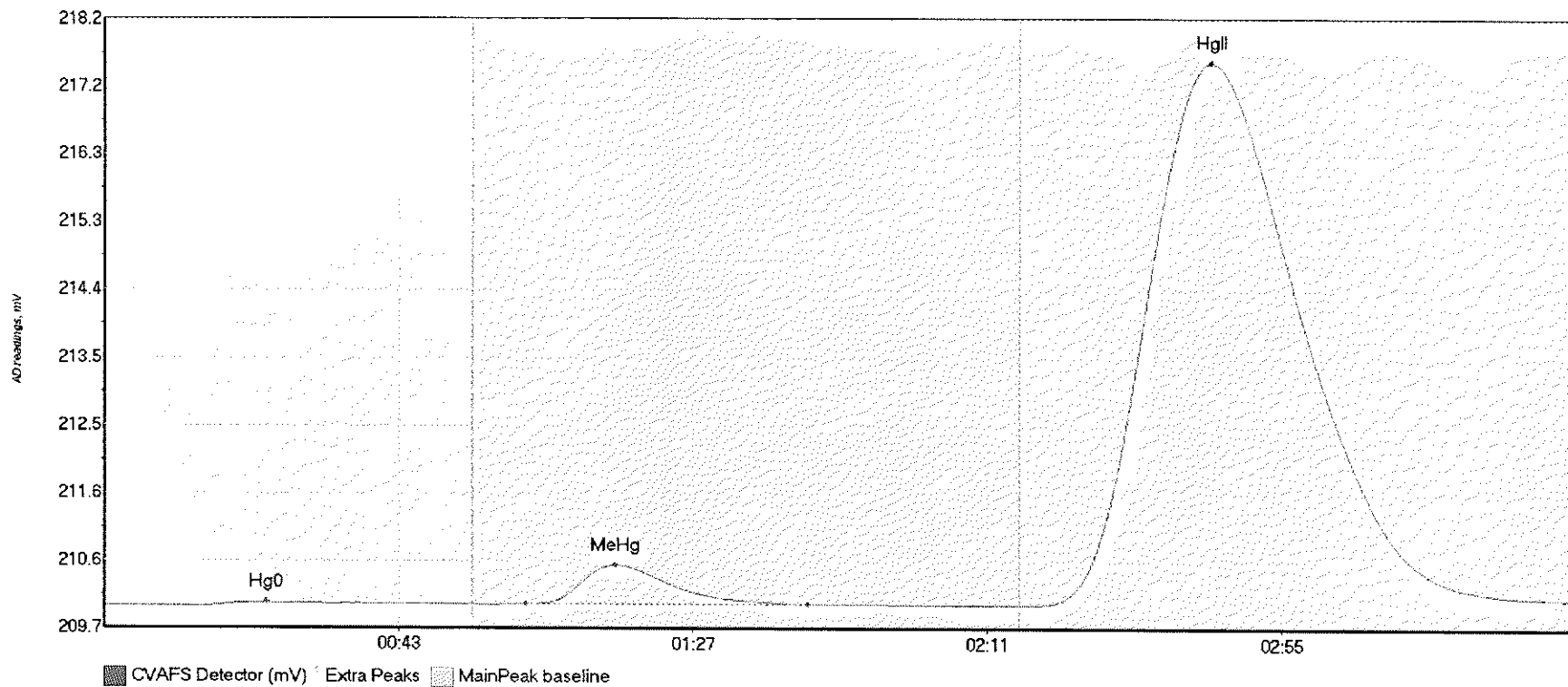
#84: SEQ-CCB6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB6 Hg0	3.551	14.5	37.5	210.00	210.03	23.9	0.039	OK	210.0044	0.00	0.01	
SEQ-CCB6 MeHg	1.528	68.0	85.4	210.03	210.03	77.3	0.016	OK	210.0044	0.00	0.01	
SEQ-CCB6 HgII	12.395	136.8	206.0	210.01	210.02	163.3	0.044	OK	210.0044	0.00	0.01	



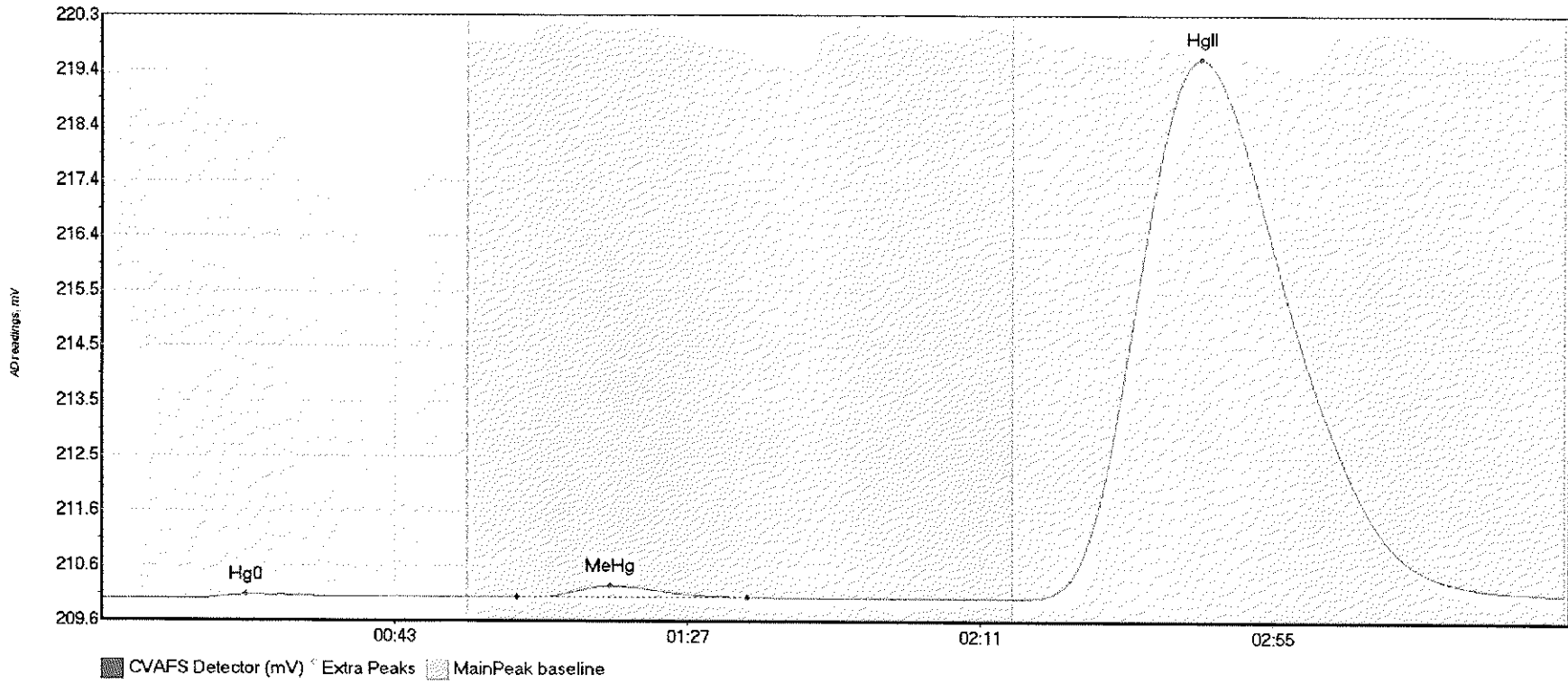
#85: 1708524-13



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-13 Hg0	8.289	14.6	53.7	210.00	210.03	24.3	0.048	OK	210.0022	0.00	0.10	
1708524-13 MeHg	82.595	63.0	105.2	210.03	210.03	76.5	0.552	OK	210.0022	0.00	0.10	
1708524-13 HgII	1965.677	139.2	219.8	210.02	210.10	165.5	7.527	CT	210.0022	0.00	0.10	

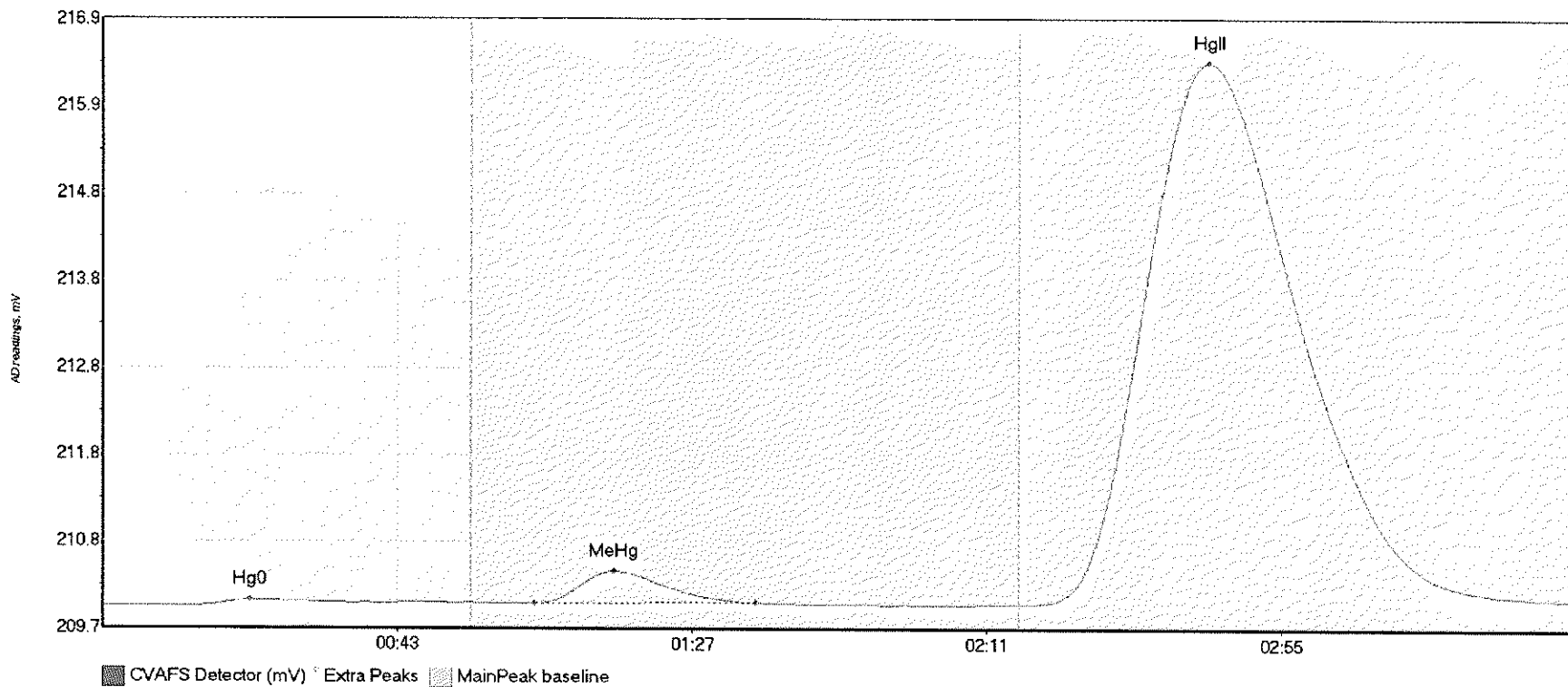
017

#86: 1708524-14



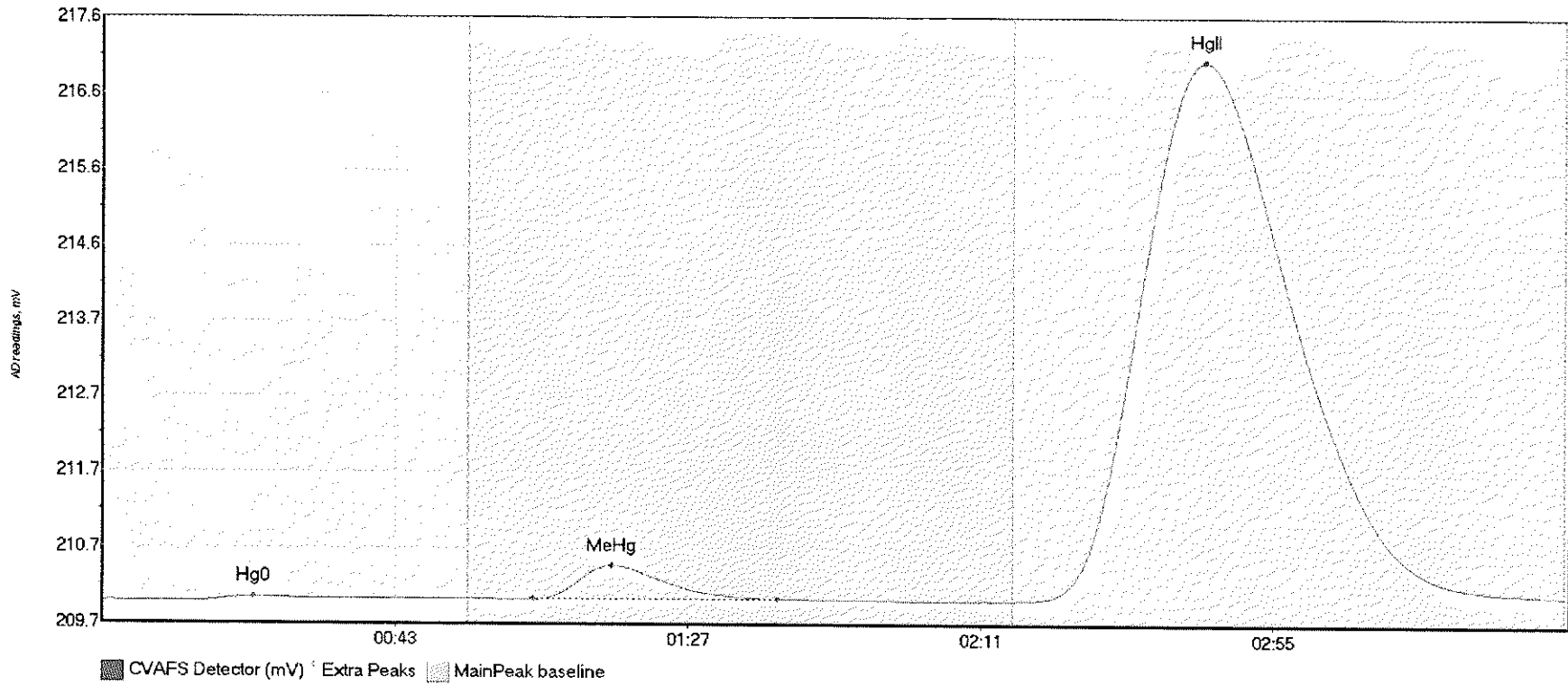
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708524-14 Hg0	10.701	14.8	55.0	210.01	210.04	21.7	0.065	CT	210.0115	0.00	0.10	
1708524-14 MeHg	28.313	62.5	97.0	210.04	210.04	76.5	0.199	OK	210.0115	0.00	0.10	
1708524-14 HgII	2490.751	138.2	219.8	210.03	210.11	165.3	9.533	CT	210.0115	0.00	0.10	

#87: 1708557-01



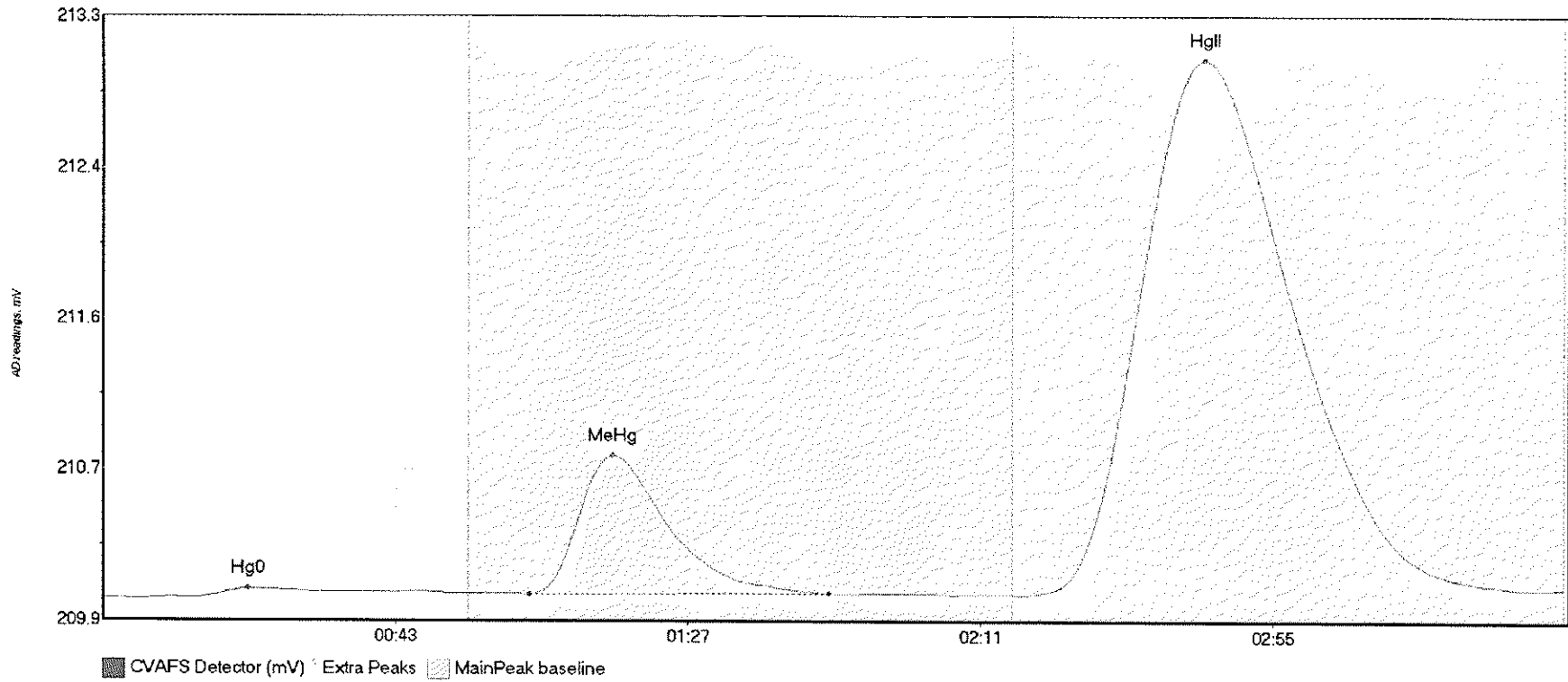
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-01 Hg0	6.685	12.1	37.6	210.00	210.03	22.0	0.069	OK	209.9943	0.00	0.09	
1708557-01 MeHg	53.034	64.5	97.4	210.03	210.04	76.3	0.379	OK	209.9943	0.00	0.09	
1708557-01 HgII	1653.689	139.0	217.6	210.02	210.08	165.2	6.343	OK	209.9943	0.00	0.09	

#88: 1708557-02



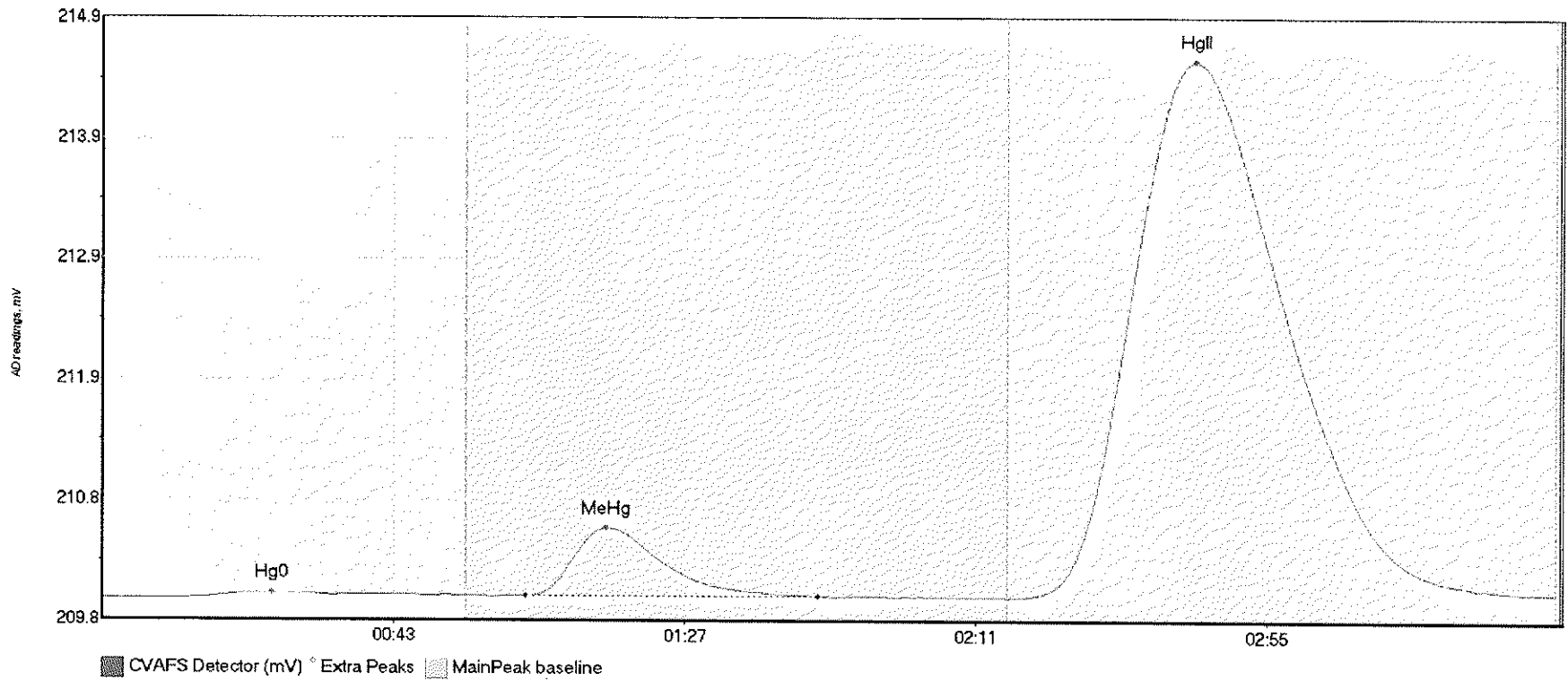
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-02 Hg0	6.984	14.4	47.0	210.00	210.04	22.7	0.056	OK	210.0066	0.00	0.09	
1708557-02 MeHg	62.915	64.7	101.5	210.03	210.04	76.6	0.437	OK	210.0066	0.00	0.09	
1708557-02 HgII	1819.809	138.7	219.7	210.02	210.09	165.7	6.998	OK	210.0066	0.00	0.09	

#89: 1708557-03



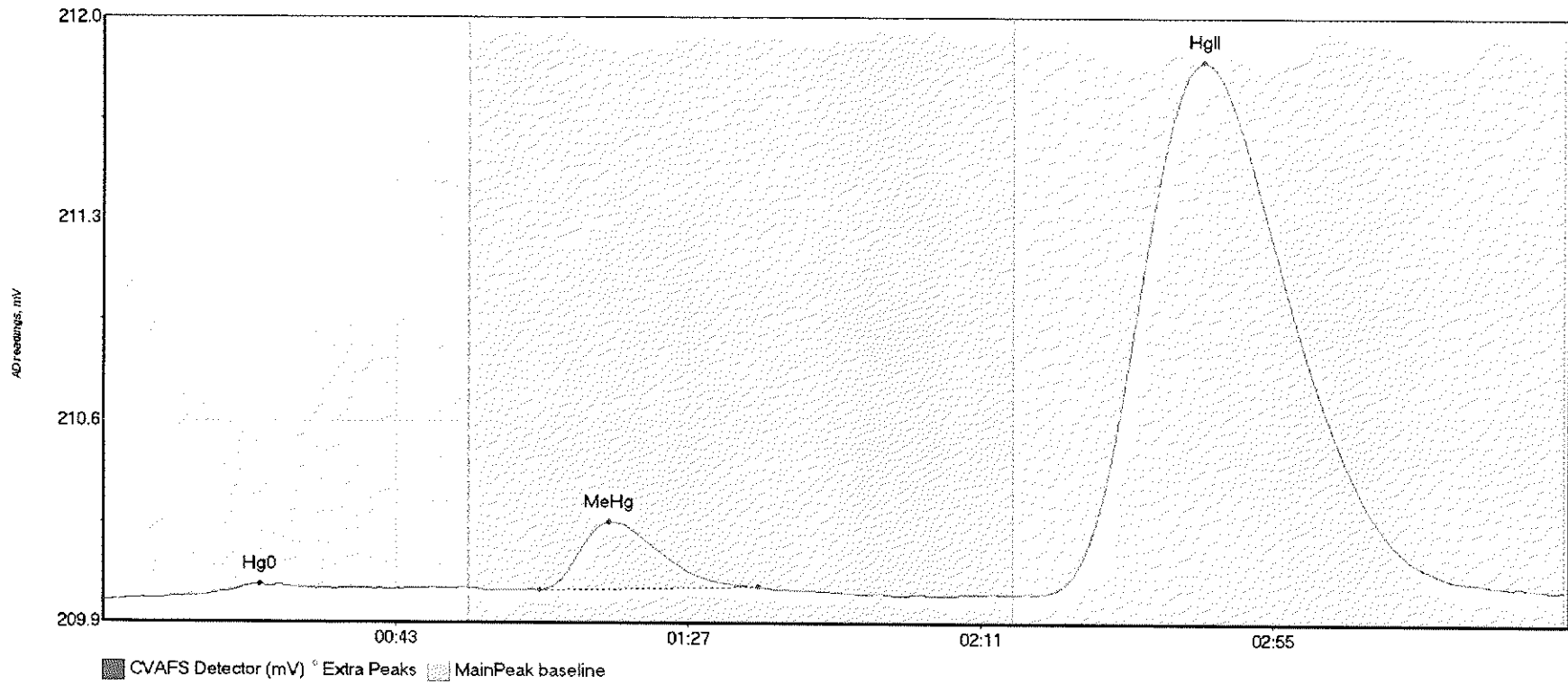
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-03 Hg0	8.374	13.9	52.3	210.01	210.03	21.9	0.052	OK	210.0094	0.00	0.06	
1708557-03 MeHg	120.641	64.2	109.1	210.03	210.03	76.8	0.784	OK	210.0094	0.00	0.06	
1708557-03 HgII	791.811	139.1	217.0	210.03	210.06	165.8	3.030	OK	210.0094	0.00	0.06	

#90: 1708557-04



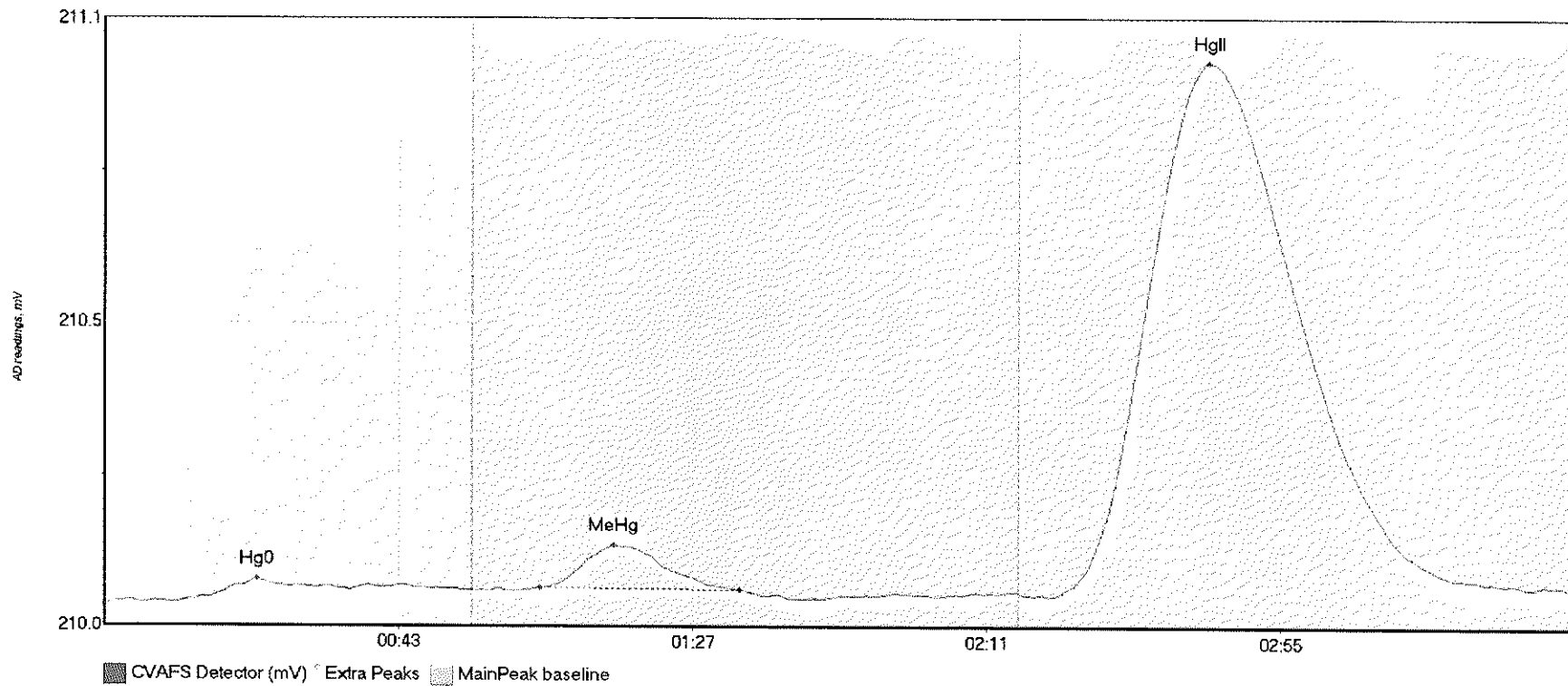
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-04 Hg0	6.807	14.2	54.0	210.01	210.03	25.7	0.040	OK	210.0099	0.00	0.05	
1708557-04 MeHg	87.335	64.0	108.1	210.03	210.03	76.2	0.573	OK	210.0099	0.00	0.05	
1708557-04 HgII	1183.358	136.9	219.7	210.02	210.06	165.3	4.512	OK	210.0099	0.00	0.05	

#91: 1708557-05



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-05 Hg0	2.704	2.4	34.9	210.00	210.04	23.6	0.052	OK	209.9953	0.00	0.04	
1708557-05 MeHg	32.018	65.7	98.6	210.03	210.04	76.2	0.237	OK	209.9953	0.00	0.04	
1708557-05 HgII	476.200	141.5	218.5	210.02	210.04	165.6	1.834	OK	209.9953	0.00	0.04	

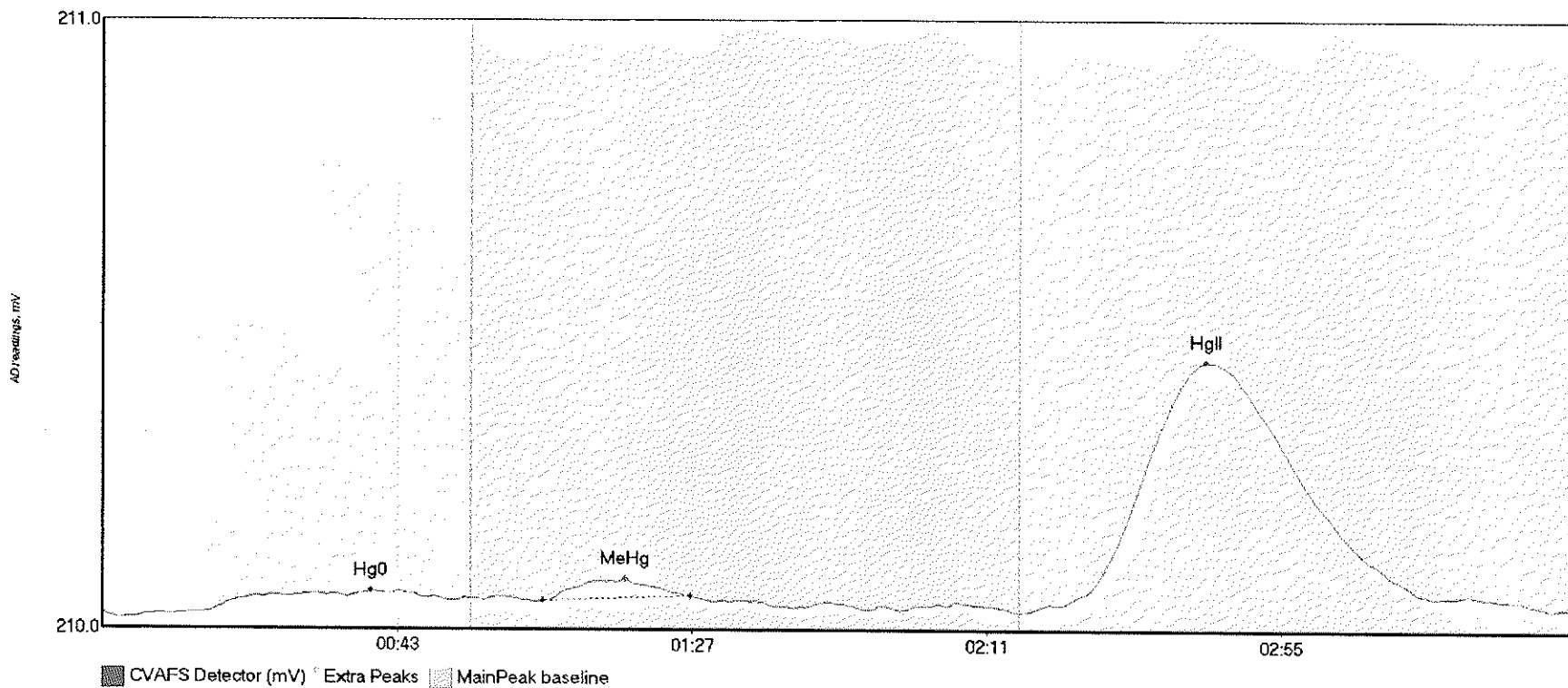
#92: 1708557-06



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-06 Hg0	6.120	11.3	55.0	210.01	210.03	22.9	0.040	CT	210.0069	0.00	0.03	
1708557-06 MeHg	10.876	65.1	95.0	210.03	210.03	76.1	0.077	OK	210.0069	0.00	0.03	
1708557-06 HgII	246.338	141.5	219.5	210.02	210.04	165.3	0.964	OK	210.0069	0.00	0.03	

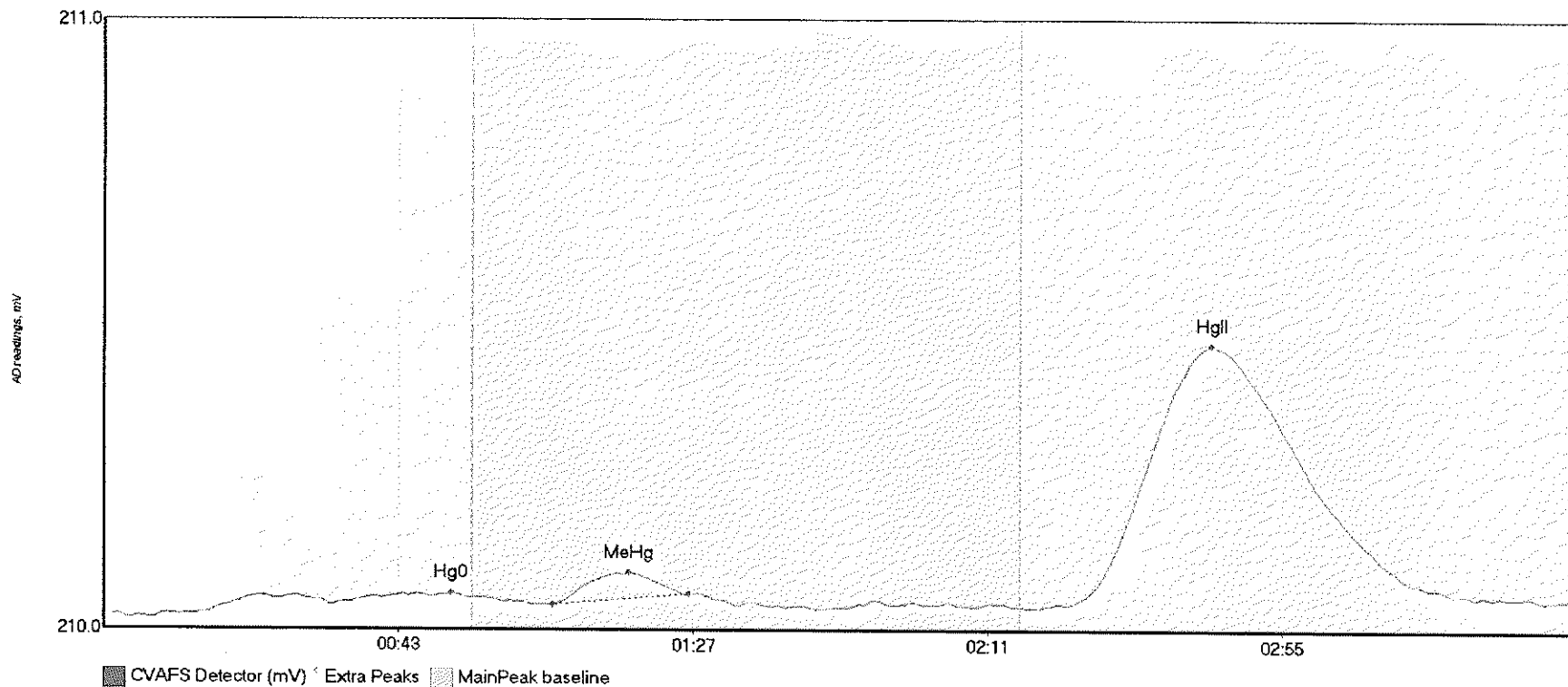


#93: 1708557-07



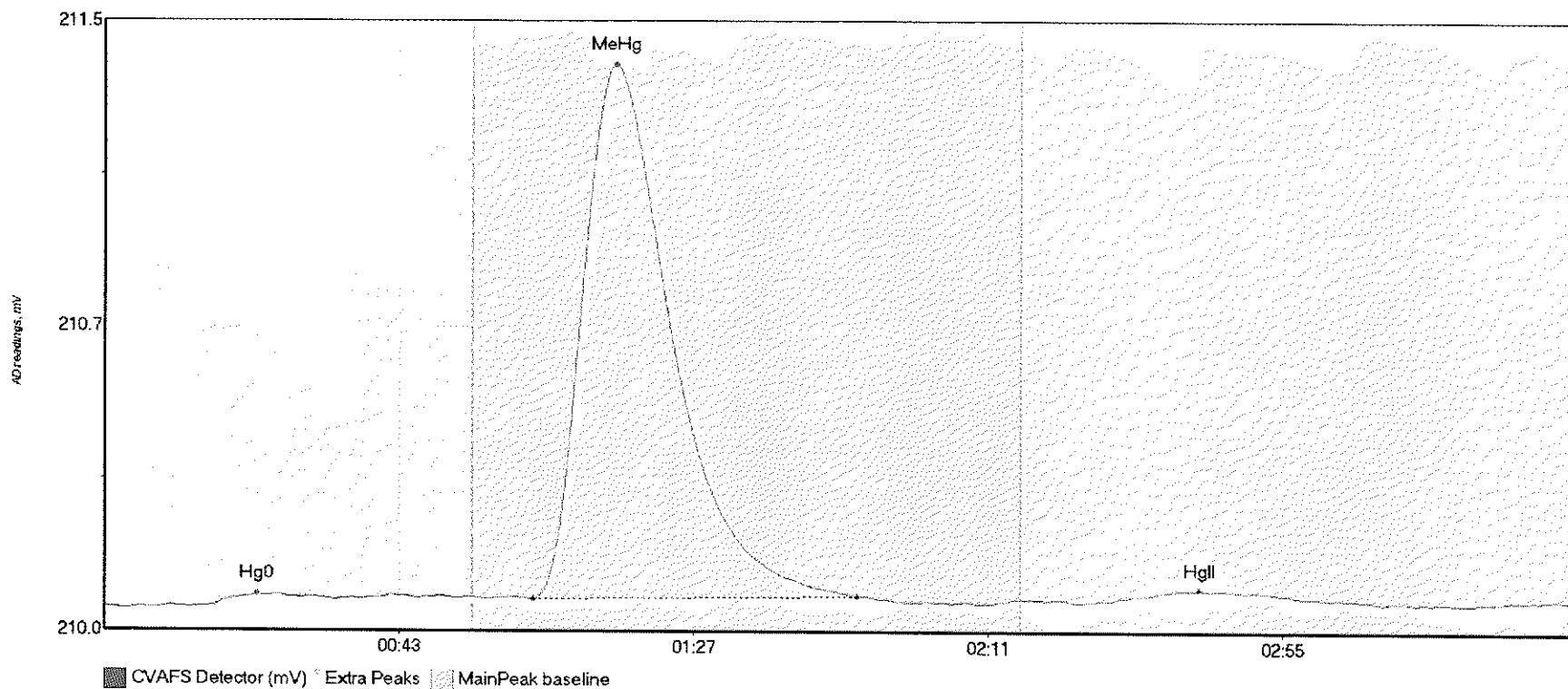
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-07 Hg0	5.895	15.8	52.6	210.02	210.04	40.0	0.034	OK	210.0142	0.00	0.01	
1708557-07 MeHg	3.983	65.7	87.8	210.04	210.04	78.0	0.035	OK	210.0142	0.00	0.01	
1708557-07 HgII	111.644	137.5	216.2	210.02	210.02	164.8	0.413	OK	210.0142	0.00	0.01	

#94: 1708557-08



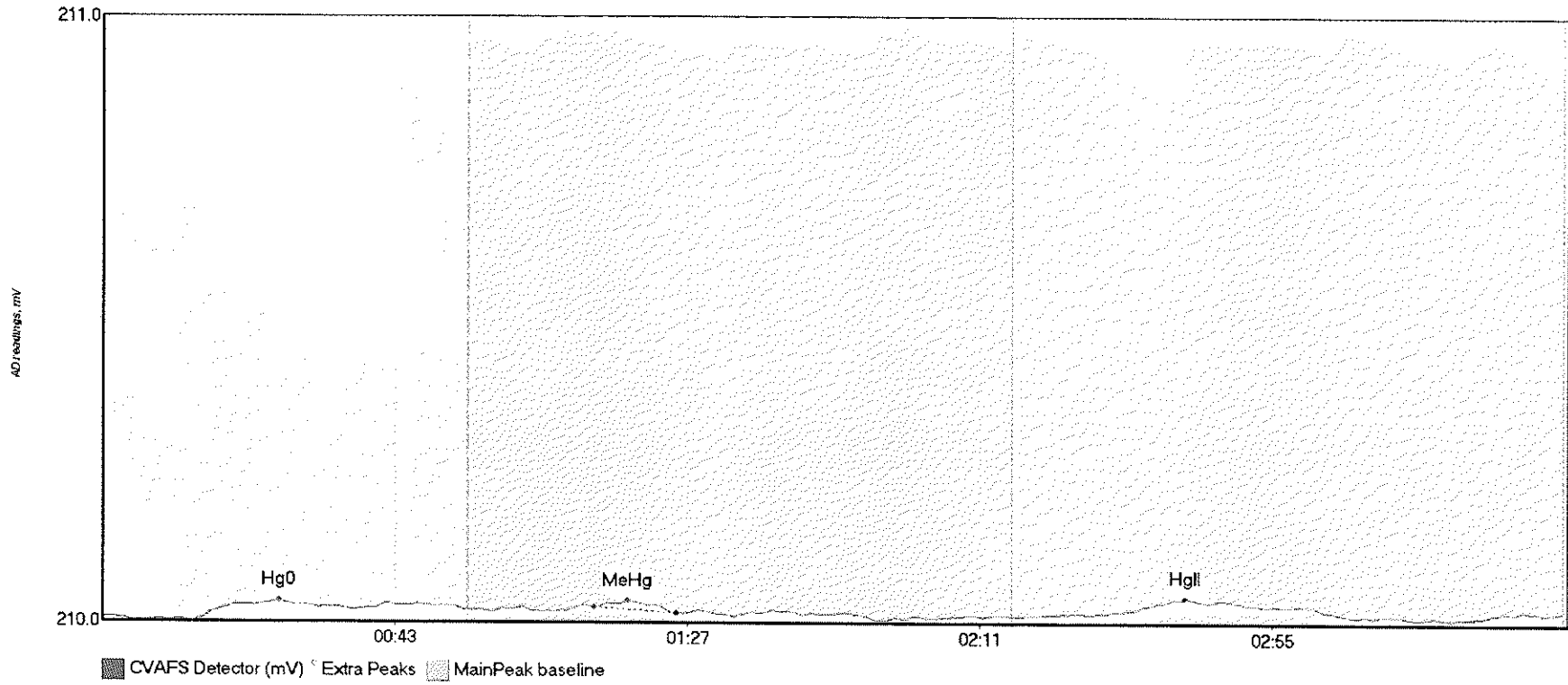
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-08 Hg0	4.306	14.4	54.4	210.02	210.04	51.8	0.033	OK	210.0119	0.00	0.03	
1708557-08 MeHg	5.038	67.0	87.3	210.03	210.05	78.4	0.053	OK	210.0119	0.00	0.03	
1708557-08 HgII	110.884	143.9	215.5	210.03	210.04	165.5	0.428	OK	210.0119	0.00	0.03	

#95: SEQ-CCV7



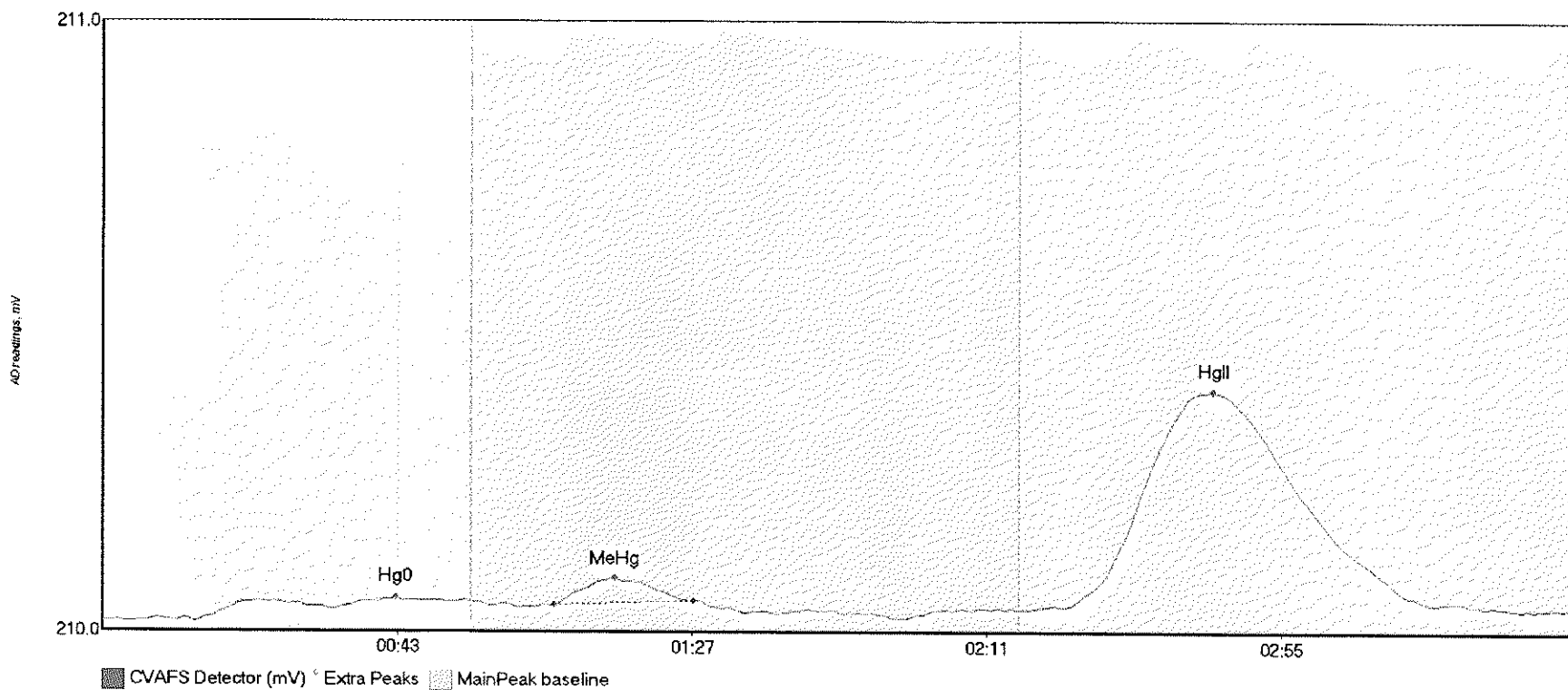
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV7 Hg0	2.319	16.0	34.4	210.01	210.03	22.8	0.028	OK	210.0111	0.00	0.02	
SEQ-CCV7 MeHg	206.214	64.2	112.5	210.03	210.04	76.4	1.347	OK	210.0111	0.00	0.02	
SEQ-CCV7 HgII	3.314	152.3	179.4	210.04	210.04	163.6	0.022	OK	210.0111	0.00	0.02	

#96: SEQ-CCB7



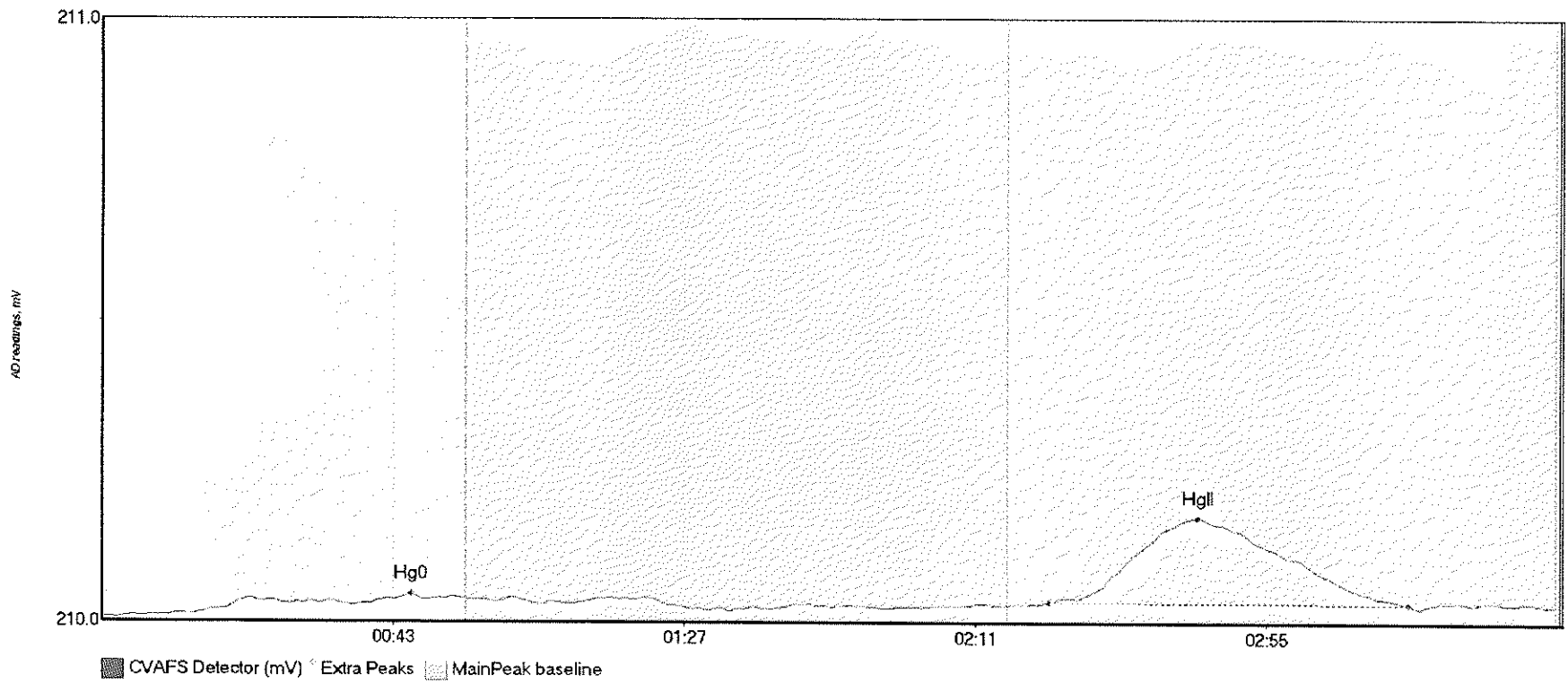
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB7 Hg0	3.010	14.7	37.8	210.01	210.02	26.6	0.029	OK	210.0111	0.00	0.01	
SEQ-CCB7 MeHg	1.105	74.0	86.3	210.03	210.02	79.0	0.011	OK	210.0111	0.00	0.01	
SEQ-CCB7 HgII	4.693	150.9	186.0	210.02	210.02	162.9	0.025	OK	210.0111	0.00	0.01	017

#97: 1708557-09



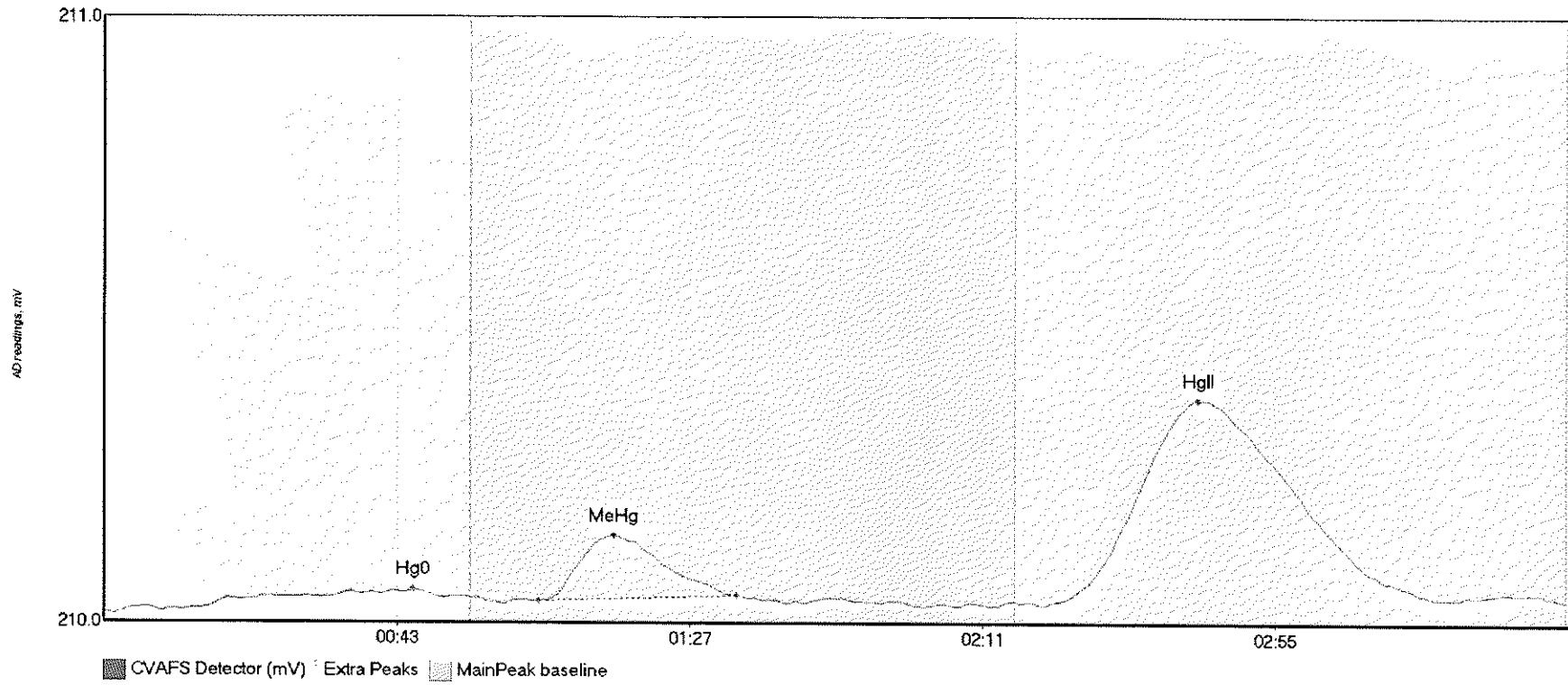
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1708557-09 Hg0	4.951	13.9	55.0	210.01	210.04	43.7	0.038	CT	210.0087	0.00	0.02	
1708557-09 MeHg	4.712	67.5	88.1	210.03	210.04	76.4	0.045	OK	210.0087	0.00	0.02	
1708557-09 HgII	91.854	143.6	206.6	210.03	210.03	165.9	0.355	OK	210.0087	0.00	0.02	

#98: 1708557-10



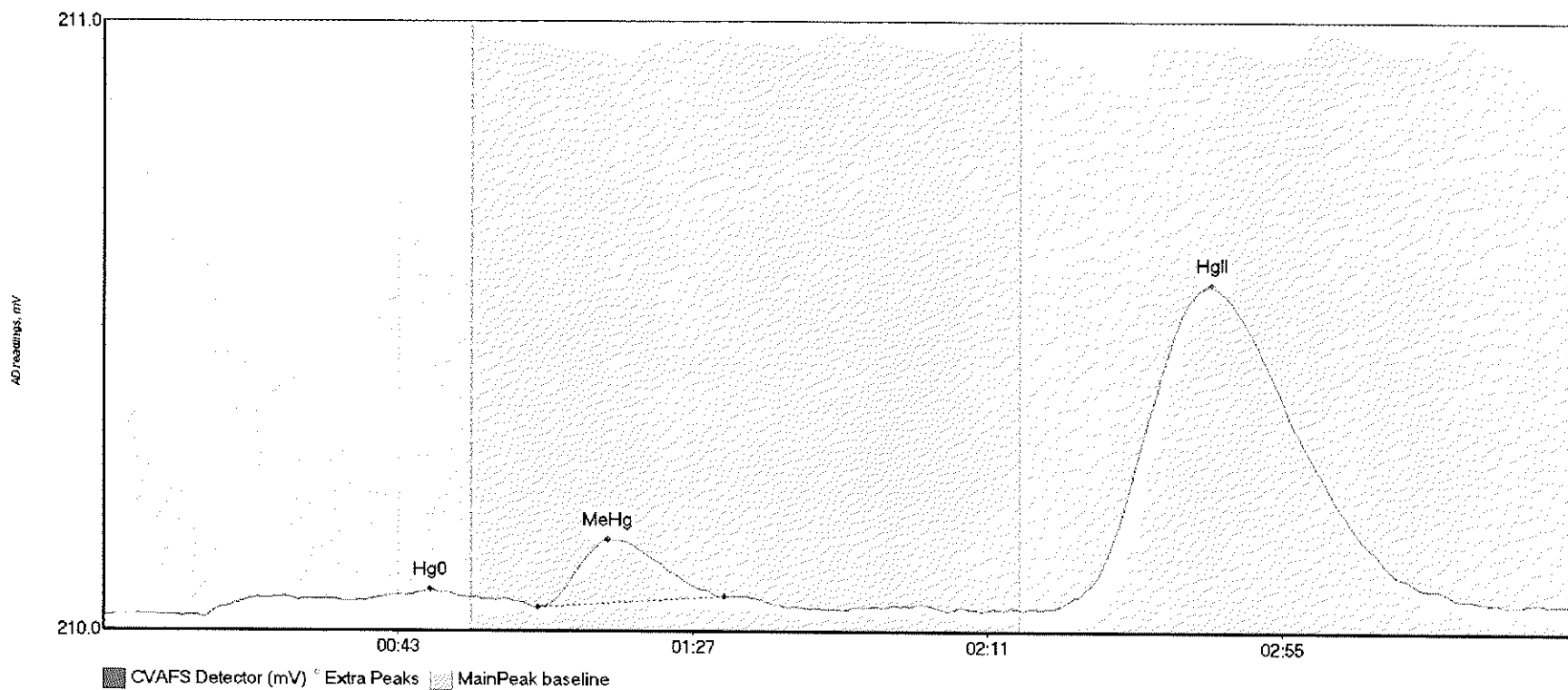
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-10 Hg0	2.492	13.3	48.8	210.02	210.04	46.7	0.033	OK	210.0153	0.00	0.02	
1708557-10 HgII	35.723	143.2	197.4	210.04	210.04	165.8	0.141	OK	210.0153	0.00	0.02	017

#99: 1708557-12



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-12 Hg0	4.914	9.1	55.0	210.02	210.04	46.5	0.035	CT	210.0142	0.00	0.02	
1708557-12 MeHg	14.867	65.3	95.0	210.03	210.04	76.6	0.108	OK	210.0142	0.00	0.02	
1708557-12 HgII	87.726	143.6	219.5	210.04	210.04	164.5	0.334	OK	210.0142	0.00	0.02	

#100: 1708557-13

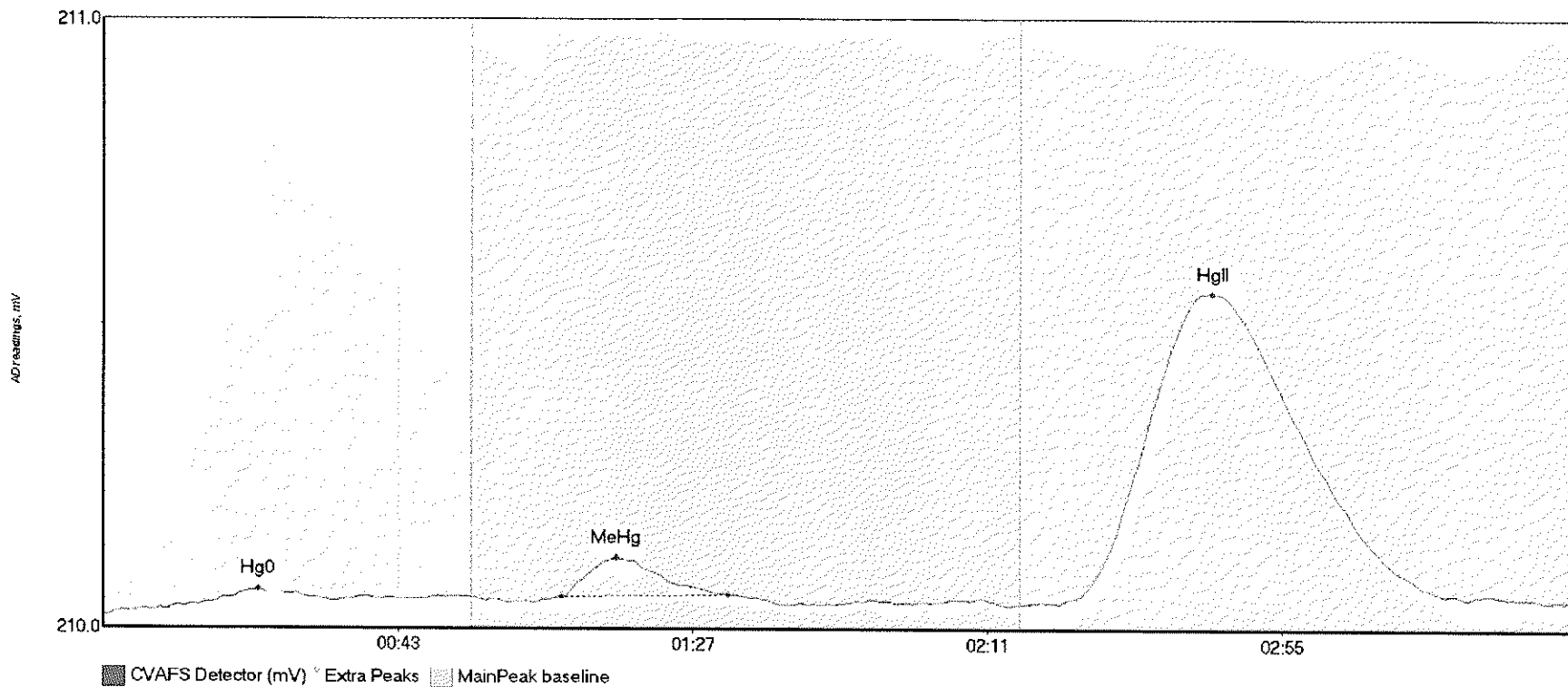


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-13 Hg0	5.823	15.1	55.0	210.01	210.04	48.9	0.046	CT	210.0130	0.00	0.02	
1708557-13 MeHg	14.391	64.9	92.7	210.03	210.04	75.3	0.111	OK	210.0130	0.00	0.02	
1708557-13 HgII	137.604	141.7	209.6	210.03	210.03	165.4	0.532	OK	210.0130	0.00	0.02	

017

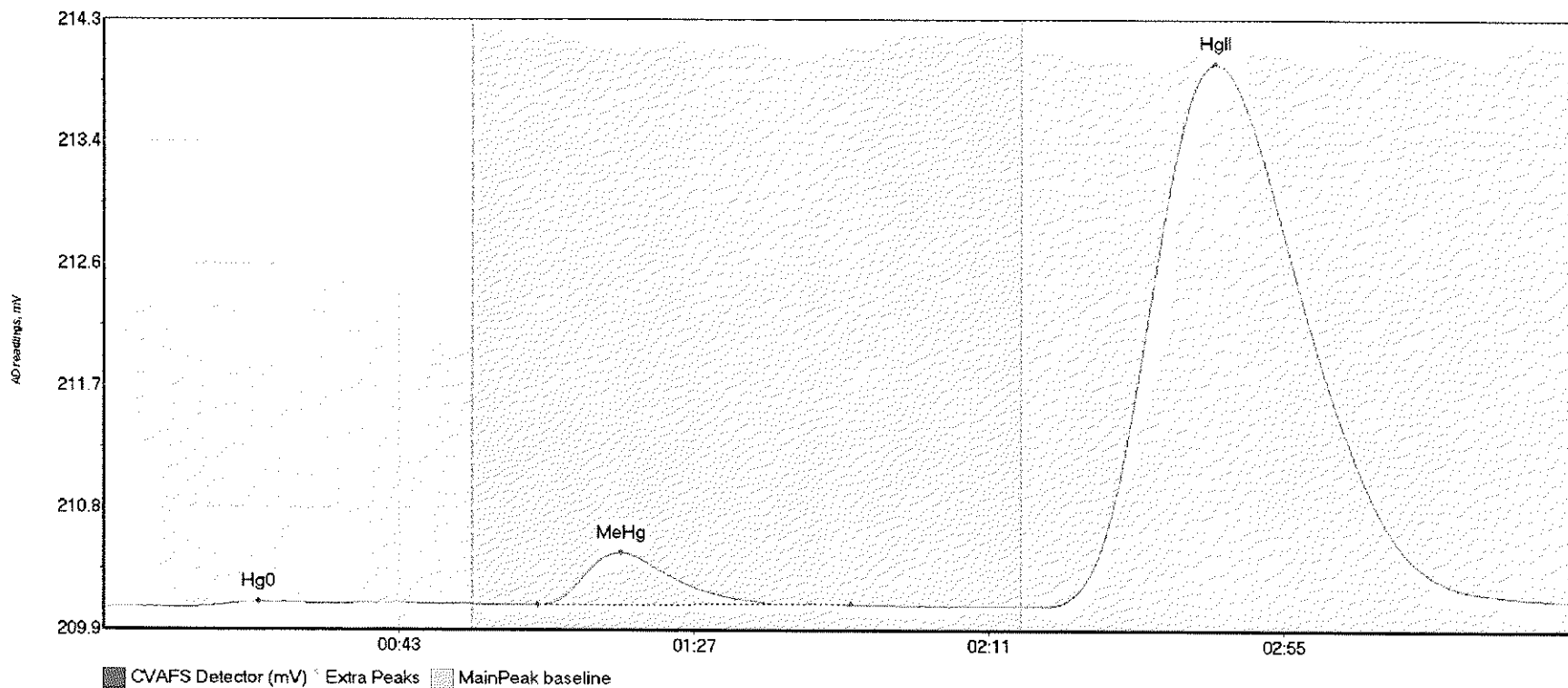


#101: 1708557-14



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-14 Hg0	3.795	0.6	34.5	210.01	210.04	23.2	0.042	OK	210.0113	0.00	0.03	
1708557-14 MeHg	7.554	68.5	93.3	210.04	210.04	76.6	0.064	OK	210.0113	0.00	0.03	
1708557-14 HgII	134.259	142.7	215.7	210.03	210.04	165.6	0.512	OK	210.0113	0.00	0.03	

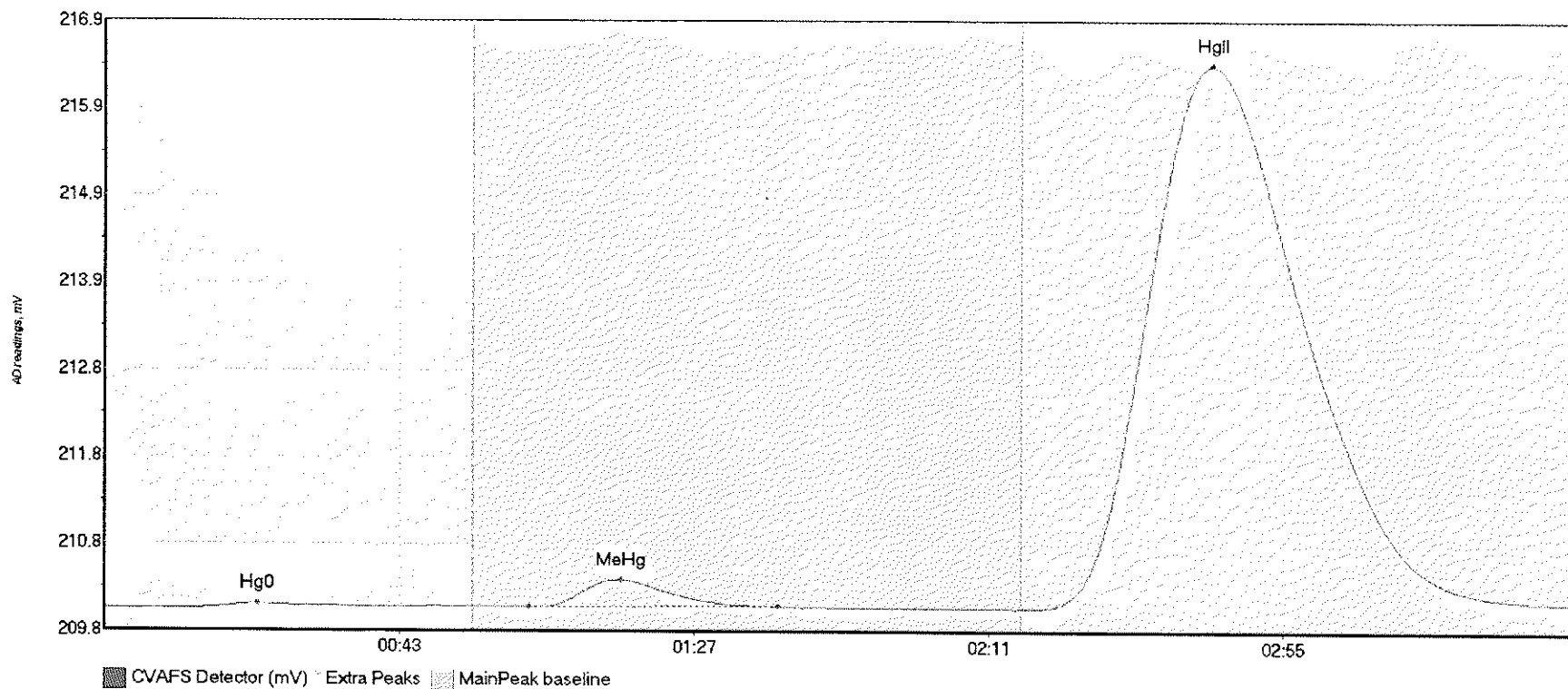
#102: 1708557-15



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-15 Hg0	7.168	13.2	55.0	210.02	210.05	23.1	0.041	CT	210.0244	0.00	0.05	
1708557-15 MeHg	59.035	64.7	111.5	210.04	210.04	77.2	0.385	OK	210.0244	0.00	0.05	
1708557-15 HgII	1045.542	140.7	219.3	210.03	210.08	165.8	3.992	OK	210.0244	0.00	0.05	

017

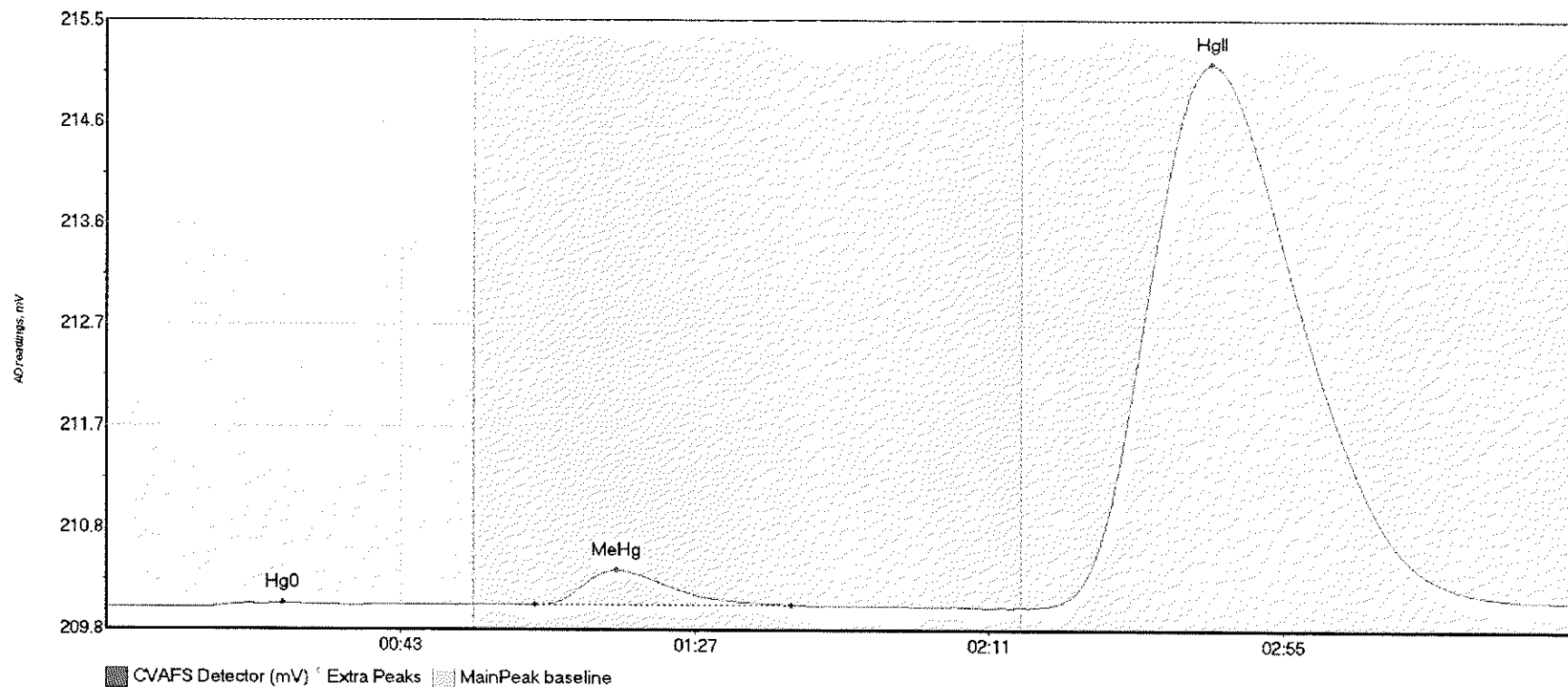
#103: 1708557-16



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-16 Hg0	4.716	13.3	37.0	210.03	210.05	22.8	0.053	OK	210.0254	0.00	0.08	
1708557-16 MeHg	46.610	63.4	100.6	210.04	210.05	77.1	0.319	OK	210.0254	0.00	0.08	
1708557-16 HgII	1683.727	137.9	219.8	210.03	210.10	165.4	6.398	CT	210.0254	0.00	0.08	

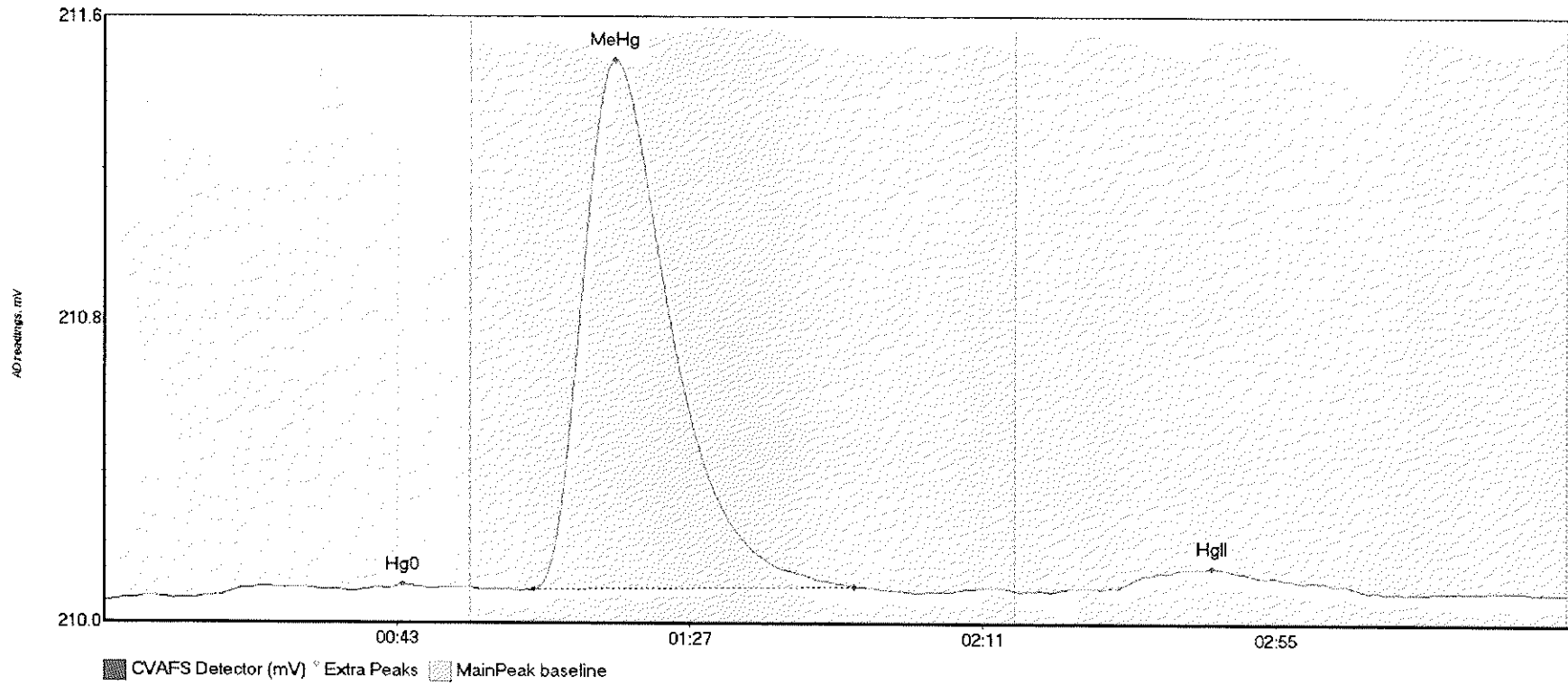
017

#104: 1708557-17



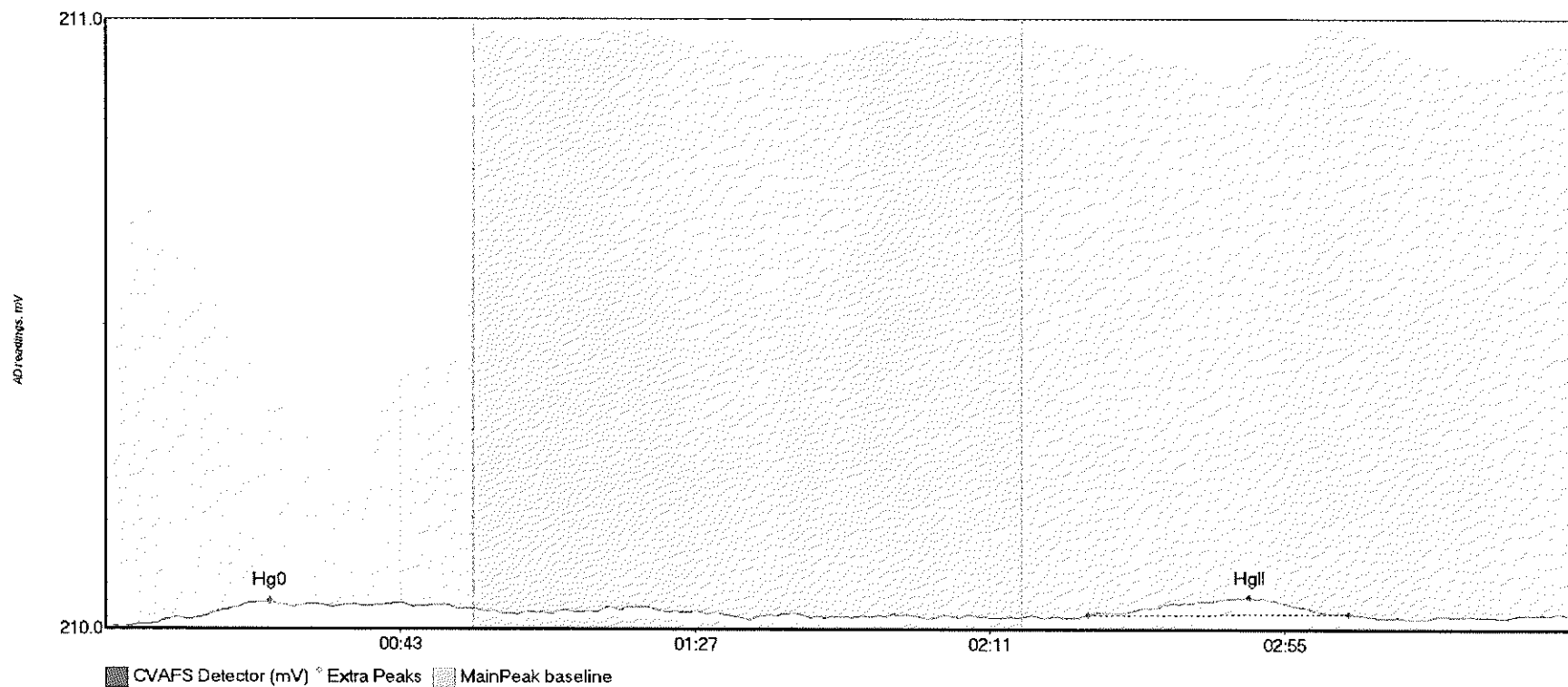
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1708557-17 Hg0	3.693	14.4	36.5	210.03	210.05	26.5	0.040	OK	210.0256	0.00	0.07	
1708557-17 MeHg	47.525	64.1	102.5	210.05	210.05	76.3	0.323	OK	210.0256	0.00	0.07	
1708557-17 HgII	1333.940	137.9	219.8	210.03	210.09	165.3	5.107	CT	210.0256	0.00	0.07	

#105: SEQ-CCV8



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV8 Hg0	4.356	0.0	49.1	210.01	210.05	44.9	0.046	NP	210.0159	0.00	0.03	
SEQ-CCV8 MeHg	224.691	64.6	112.7	210.05	210.06	76.8	1.470	OK	210.0159	0.00	0.03	
SEQ-CCV8 HgII	15.956	142.2	190.2	210.04	210.04	166.4	0.066	OK	210.0159	0.00	0.03	

#106: SEQ-CCB8



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
SEQ-CCB8 Hg0	6.375	6.5	52.9	210.02	210.05	24.6	0.037	OK	210.0206	0.00	0.02	
SEQ-CCB8 HgII	5.459	146.7	185.6	210.04	210.04	170.8	0.030	OK	210.0206	0.00	0.02	017