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Lab Number: L1623305

Client: AMEC Foster Wheeler E & I, Inc.

ATTN: Rod Pendleton

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052

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Sample Delivery Group Information



Sample Delivery Group Form

Laboratory Job number: L1623305

Project Manager: Elizabeth Porta

Review Date: 07/28/2016

Project Number: 3616166052

Project Name: PENOBSCOT RIVER ESTUARY

Received: 07/27/2016 09:56

Client Account: AMEC Foster Wheeler E & I, Inc.

Received by: CM/JK

Samples Delivered by: FEDEX

Call Tracker #

Bill Of Laden Yes

Trackingnum 804544056941

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt 8

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Present/Intact	Yes	No	5.4 - IR Gun	No	No

LIMS Chain of Custody

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Aug 03 2016, 12:04 pm

Login Number: L1623305

Account: AMEC-ME AMEC Foster Wheeler E & I, Inc. Project: 3616166052

Sample #	Client ID	Received: 27JUL16 Mat PR Collected	Due Date: 03AUG16 Container
----------	-----------	---------------------------------------	--------------------------------

L1623305-01	ADD-02_072216_SW_10	1 S0 22JUL16 16:38	1-Plastic-Al,1-Vial-D
-------------	---------------------	--------------------	-----------------------

| DPKG-FULL Package Due Date: 08/03/16

DOC-9060,DPKG-FULL,TSS-2540

Page 1

Logged By: Brett Read

Container Tracking

ALPHA ANALYTICAL LABORATORIES
Container Tracking Report

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1623305-01A Vial-D	INTACT	02-AUG-16	CUSTODY	RETURN WALK-IN	CUSTODY Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1623305-01A Vial-D	INTACT	28-JUL-16		CUSTODY	Fred Ababio	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Fred Ababio
L1623305-01A Vial-D	INTACT	27-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read
L1623305-01B Plastic-Al	INTACT	29-JUL-16		RETURN WALK-IN	CUSTODY Nunya Gozey	W11-S5-C CUSTODY	W11-S5-C CUSTODY	Nunya Gozey
L1623305-01B Plastic-Al	INTACT	29-JUL-16	CUSTODY	WETCHEM	Minh Ly	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Minh Ly
L1623305-01B Plastic-Al	INTACT	28-JUL-16	CUSTODY	W11-S3-A	CUSTODY Minh Ly	WETCHEM	WETCHEM	Minh Ly
L1623305-01B Plastic-Al	INTACT	28-JUL-16		CUSTODY	Fred Ababio	W11-S3-A CUSTODY	W11-S3-A CUSTODY	Fred Ababio
L1623305-01B Plastic-Al	INTACT	27-JUL-16	LOGIN	LOGIN	Brett Read	CUSTODY	CUSTODY	Brett Read

Chain of Custody

L1623305

Chain Of Custody/Analysis Request Form

USDC - Penobscot River

Lab: Alpha

AMEC, Suite 200, 511 Congress Street, Portland, ME

Tech Lead - Louise Venne
Work# 770-421-3461

Proj Chemist - Denise King
508-789-1738

AMEC Job Number = 3616166052

Samp #	Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qty Each	Bottle Size and Material	Preservative	Media Method	Fraction
1601	7/22/2016	16:38	ADD-02_072216_SW_10		2					
			1 vial cap broke - only 1 of 2 sent	FS	1	40 mL	Glass Vial	H2SO4/4 deg C	SW DOC (SW846 9060)	T
				FS	1	1 L	Plastic	4 deg C	SW TSS (Mod 2450D)	T

QC Codes: FS = Field Sample, EB = Equipment Rinsate Blank, MS - Matrix Spike, MSD = Matrix Spike Duplicate

Relinquished: Julie Pallozzi Date: 7 / 26 / 2016 Time: 11:30

Received: [Signature] Date: 7 / 27 / 2016 Time: 09:56

AIRBILL: 8045 4405 6941

ONE COOLER

Wet Chemistry

Total Suspended Solids Analysis

Sample Raw Data

ALPHA ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT
 TOTAL SUSPENDED SOLIDS

Last Change 3/4/13
 File tss.xlt

2540D (PPB)

2540D

Get Samples

Save to LIMS

METHODS

Sample Number: _____ in 104 3:32
 out 6:05
 Client: _____ in 9:15
 out 9:55
 Analysis: T S S in 10:45
 Method: SM 2540D out 11:45
 in 12:45 out 13:00

Product: TSS-2540
 Analyte: Solids, Total Suspended
 Analysis Date: 7/29/2016 0:46
 Technician: MCL
 Work group: WG918076
 RDL: 5.0 mg/l

2

	Sample Number	Symbol	Tare Weight (gm)	Sample Volume (ml)	Net Weight(1) (gm)	Net Weight(2) (gm)	Net Weight(3) (gm)	Net Weight(4) (gm)	RDL MULT.	RESULT mg/l
BLANK	WG918076-1	31	0.42885	1000	0.42893	0.42874				0.00
DUP	WG918076-2	45	0.4363	500	0.9041	0.9038			2	935.00
SAMP	L1623305-01	44	0.4317	500	0.6304	0.6306			2	397.40
	L1623346-01	43	0.4316	1060	0.4470	0.4474				14.53
SAMP	L1623355-01	46	0.4299	1010	0.4486	0.4489				18.51
SAMP	L1623360-01	47	0.4308	250	0.5152	0.5158	0.5150		4	336.80
SAMP	L1623364-01	48	0.4318	750	0.5022	0.5020			2	93.60
	L1623408-01	49	0.4309	750	0.7230	0.7238	0.7227		2	389.07
	L1623408-02	50	0.4308	1075	0.4469	0.4470				14.98
	L1623444-01	51	0.4311	1140	0.4664	0.4664				30.96
SAMP	L1623488-01	52	0.4324	1125	0.4475	0.4468	0.4453	0.4453		11.47
SAMP	L1623488-02	53	0.4326	1150	0.4319	0.4318				0.00
			DUP-TARE:	0.90380	0.43630	0.46750				482739.54
			Sample-TARE:	0.63040	0.43170	0.19870				315196.70
			DUP weight (g) on the filter:			0.46750				
			Sample weight (g) on the filter:			0.19870				
			Ave weight (g) on the filter:			0.33310				
			DUP%:			140.3				
			Sample%:			59.7				

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 03 2016, 10:59 am

Work Group: WG918076 for Department: 7 Wet Chemistry

Created: 28-JUL-16 Due: Operator: MCL

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1623305-01	ADD-02_072216_SW_10	S TSS-2540	WATER	DONE	U	0729	0803	S0	Plastic-A1
L1623346-01	0401 COMPOSITE	S TSS-2540	WATER	DONE	U	0803	0804	S0	Plastic-A1
L1623355-01	0301 COMPOSITE	S TSS-2540	WATER	DONE	U	0803	0804	S0	Plastic-A1
L1623360-01	0201 COMPOSITE	S TSS-2540	WATER	DONE	U	0803	0804	S0	Plastic-A1
L1623364-01	0101 COMPOSITE	S TSS-2540	WATER	DONE	U	0803	0804	S0	Plastic-A1
L1623408-01	INF 072716	C TSS-2540	WATER	DONE	U	0803	0803	S0	Plastic-A1
L1623408-02	EFF 072716	C TSS-2540	WATER	DONE	U	0803	0803	S0	Plastic-A1
L1623444-01	A,B,C,D	S TSS-2540	WATER	DONE	U	0803	0808	S0	Plastic-A1
L1623488-01	20160728 INFLUENT	S TSS-2540	WATER	DONE	U	0804	0729	1A	Plastic-A1
L1623488-02	20160728 EFFLUENT	S TSS-2540	WATER	DONE	U	0804	0729	1A	Plastic-A1
WG918076-1	Laboratory Method Bl	S TSS-2540	WATER	DONE	U				
WG918076-2	Duplicate Sample	S TSS-2540	WATER	DONE	U				

Comments:

WG918076-2 L1623305-01

Organic Carbon Analysis

Sequence Logs

DATE: TUE 030216	STOCK STDS ID INFO:	WORKING STDS ID INFO:
ANALYST: <i>DA</i>	LOT #'s:	LOT #'s:
CURVE INFO:	2000 PPM CURVE SLN: TUC-050916-C	2 PPM ICV: TUC-030216-ICV
CURVE IN USE: 050916 TUC-3	2000 PPM ICV/LCS/SPK SLN: TUC-050916-W	2 PPM LCS: TUC-030216-LCS
	4000 PPM IC CK STD SLN: TUC-050-0312	4 PPM SPK: TUC-030216-SPK
	060216-ICV0010 PPM IC CK STD: TUC-030216-IC	

POSITION	SAMPLE	DIL X	PH	COMMENTS	POSITION	SAMPLE	DIL X	PH	COMMENTS
1	DE								
2	DUCK STD 10ppm								
3	ICV 2ppm								
4	ICV3								
5	MB								
6	LCS 2ppm								
7	23305.1 TUC	2	2	US + DUC PE					
8	23420.1	1	2						
9	2	1	2						
10	3	1	2						
11	4	1	2						
12	23616.3	80	2						
13	4	80	2						
14	6	80	2						
15	ICV 2ppm + rr			return / forgor vial					
16	LCS								
17	23305.1 dup PUC	2	2	LCS,					
18	23616.2 4	400	2	conc.					
19	23616.3 dup	80	2						
20	3 split	80	2	160 x = 640ppm					
21	23+33.1	1	2						
22	2	1	2						
23	3	1	2						
24	ICV 2ppm								
25	LCS								

Document Type: Form

Pre-Qualtrax Document ID: N/A

Sample Raw Data

ALPHA ANALYTICAL LABS
BACTERIA DEPARTMENT
 DISSOLVED ORGANIC CARBON

Last Change 03/4/13 GFF File TOC/DOC.xlt

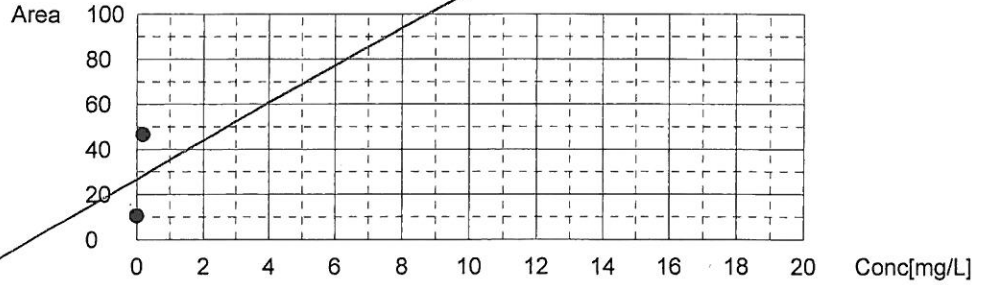
Sample Number: _____
 Client: _____
 Analysis: **DOC**
 TOC Instrument ID: 3
 Method: EPA-9060

Product: **DOC-9060**
 Analyte: **Dissolved Organic Carbon,**
 Analysis Date: 8/2/2016 7:36
 Technician: dw
 Work group: wg919141
 MDL: 1.0 mg/l
 Page Number:
 Preparation Date: 8/2/2016 7:36

LCS Conc. (ppm):
 Spike Conc(ppm):

	Sample Number	COMMENTS	MDL Multiplier	RESULT mg/L	
DUP	WG919141-3		2	3.16	L1623305-01
SAMP	L1623305-01	docs ff	2	3.26	
BLANK	WG919141-1		1	0.01	
		Sample	Spike	Spike	
		Comments	Result	Conc	% Rec
			4		0
LCS	WG919141-2		2	1.96	98

Slope: 7632
 Intercept: -548.4
 r^2 : 0.848361
 r : 0.921065
 Zero Shift: No



Cal. Curve

Sample Name: 05092016 toc-3 curve
 Sample ID:
 Cal. Curve: 05092016 toc-3.2016_05_09_09_55_51.cal
 Status: Completed

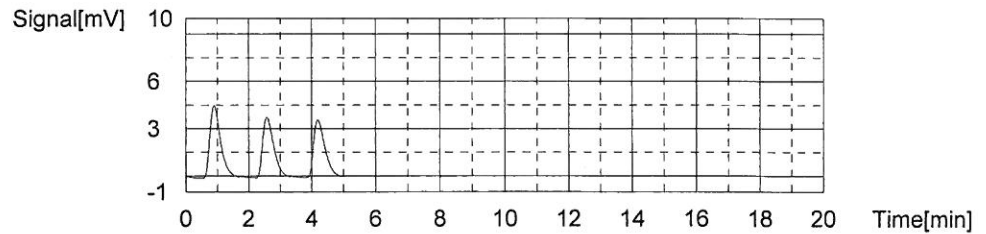
**TOC-3
 curve
 050916**

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	11.55	2500uL	1	*****	E	5/9/2016 10:04:29 AM
2	9.448	2500uL	1	*****		5/9/2016 10:09:05 AM
3	9.120	2500uL	1	*****		5/9/2016 10:13:42 AM

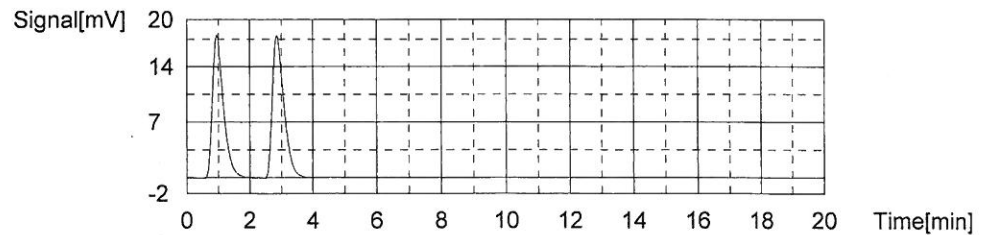
Acid Add. 3.000%
 Sp. Time 180.0sec
 Mean Area 9.284



Conc: 0.2000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	46.87	2500uL	1	*****		5/9/2016 10:24:17 AM
2	46.35	2500uL	1	*****		5/9/2016 10:28:33 AM

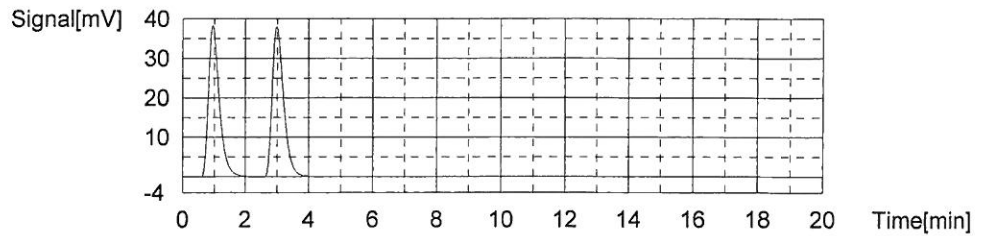
Acid Add. 3.000%
 Sp. Time 180.0sec
 Mean Area 46.61



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	98.92	2500uL	1	*****		5/9/2016 10:39:31 AM
2	96.85	2500uL	1	*****		5/9/2016 10:43:42 AM

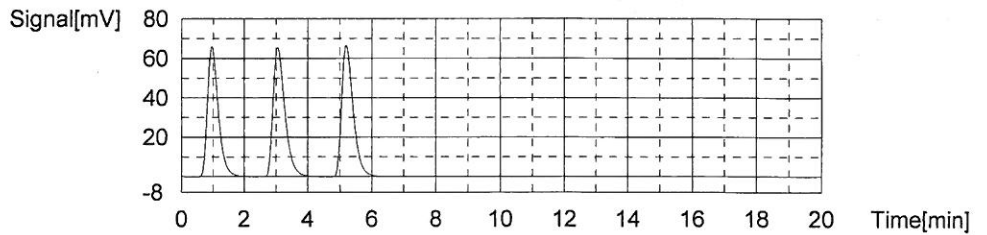
Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 97.89



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	168.5	2500uL	1	*****		5/9/2016 10:54:43 AM
2	174.4	2500uL	1	*****	E	5/9/2016 10:59:04 AM
3	171.1	2500uL	1	*****		5/9/2016 11:03:17 AM

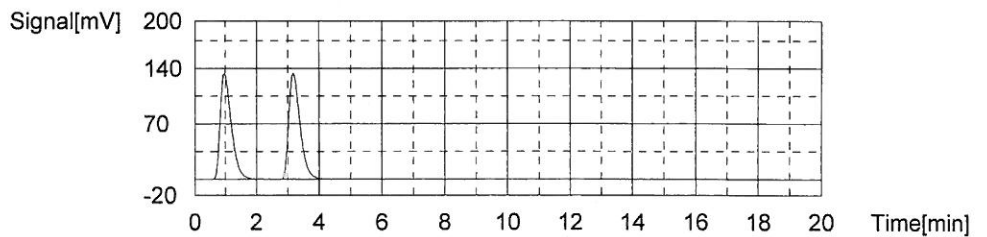
Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 169.8



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	346.8	2500uL	1	*****		5/9/2016 11:14:09 AM
2	349.8	2500uL	1	*****		5/9/2016 11:18:27 AM

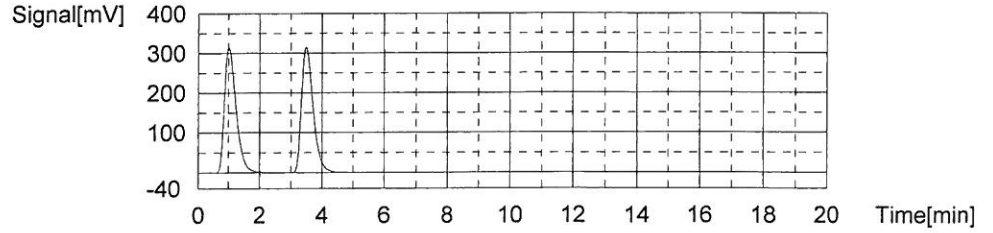
Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 348.3



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	850.0	2500uL	1	*****		5/9/2016 11:29:52 AM
2	841.4	2500uL	1	*****		5/9/2016 11:34:29 AM

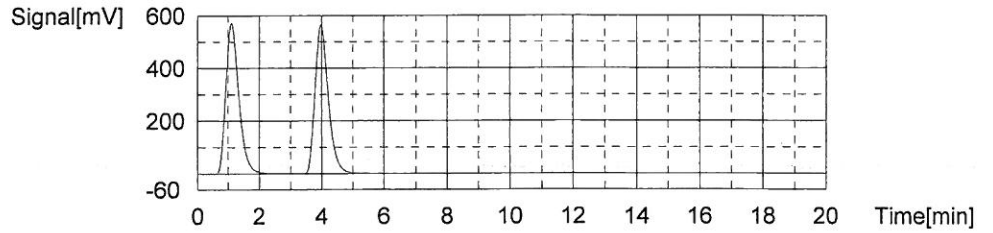
Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 845.7



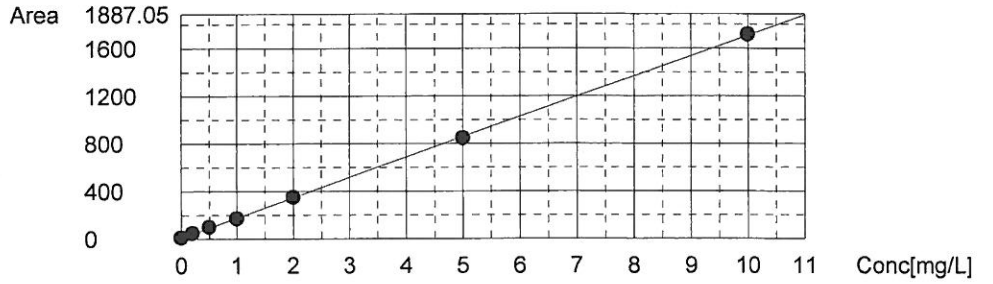
Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1710	2500uL	1	*****		5/9/2016 11:46:16 AM
2	1721	2500uL	1	*****		5/9/2016 11:52:21 AM

Acid Add. 3.000%
Sp. Time 180.0sec
Mean Area 1716



Slope: 170.2
Intercept 7.247
 r^2 0.999863
 r 0.999932
Zero Shift No



Instr.Information

System TOC-VW
Detector Wet Chemical

Sample

Sample Name: di
Sample ID:
Origin: toc-3 4 reps method.met
Status Completed
Chk. Result

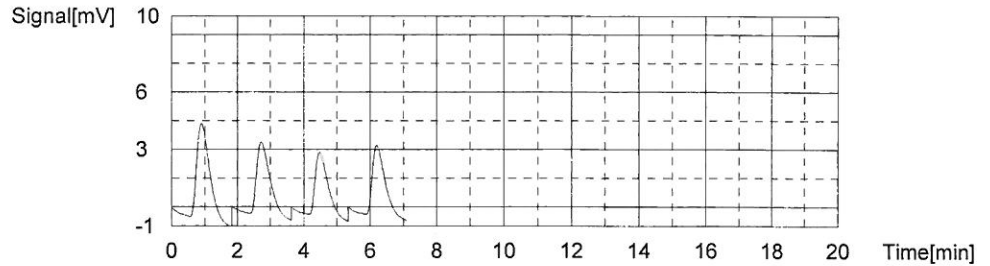
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.02189mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.99	0.03962mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 6:45:12 AM
2	10.94	0.02170mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 6:50:07 AM
3	9.061	0.01066mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 6:55:11 AM
4	9.897	0.01557mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 6:59:54 AM

Mean Area 10.97
Mean Conc. 0.02189mg/l



Sample

Sample Name: ic ck std 10ppm
Sample ID:
Origin: toc-3 4 reps method.met
Status Completed
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.08776mg/L

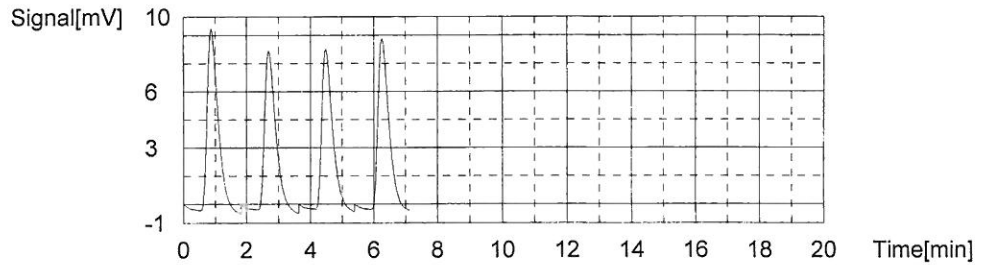


1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	24.32	0.1003mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:10:38 AM
2	21.21	0.08205mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:15:46 AM
3	20.85	0.07993mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:20:43 AM
4	22.35	0.08875mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:25:40 AM

Mean Area 22.18
 Mean Conc. 0.08776mg/l



Sample

Sample Name: icv 2ppm
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status Completed
 Chk. Result

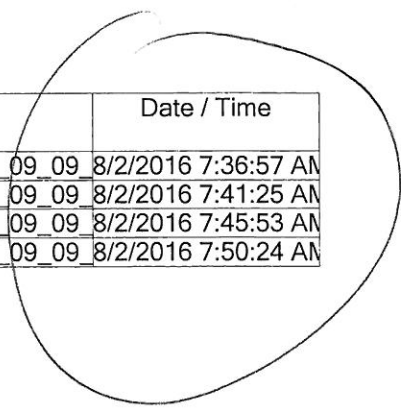
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.007mg/L



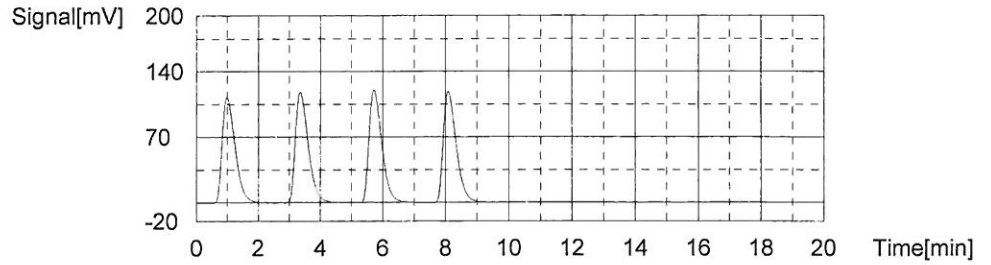
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	341.4	1.964mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:36:57 AM
2	349.9	2.013mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:41:25 AM
3	350.3	2.016mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:45:53 AM
4	353.3	2.033mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:50:24 AM



Mean Area 348.7
Mean Conc. 2.007mg/L



Sample

Sample Name: icb
Sample ID:
Origin: toc-3 4 reps method.met
Status Completed
Chk. Result

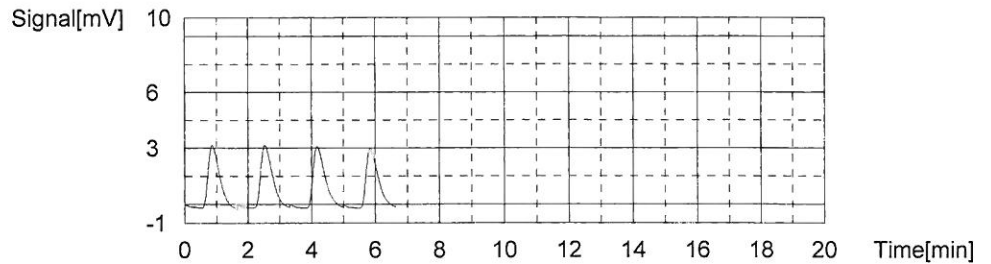
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.00804mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.779	0.00900mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 8:00:59 AM
2	8.647	0.00823mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 8:05:32 AM
3	8.699	0.00853mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 8:10:08 AM
4	8.332	0.00638mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 8:14:44 AM

Mean Area 8.614
Mean Conc. 0.00804mg/l



Sample

Sample Name: mb
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.00692mg/L

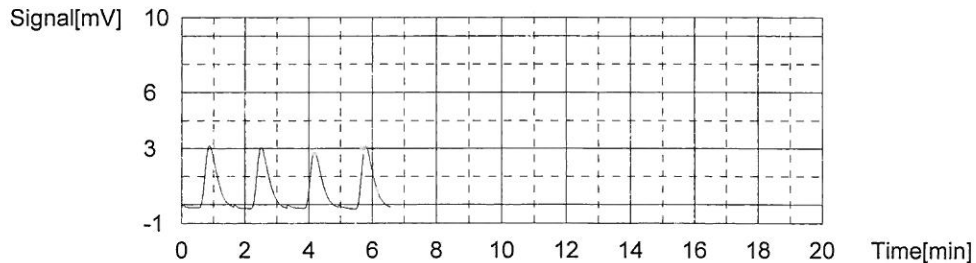
0.01

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.713	0.00862mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 8:25:18 AM
2	8.667	0.00835mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 8:29:56 AM
3	7.737	0.00288mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 8:34:28 AM
4	8.583	0.00785mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 8:39:00 AM

Mean Area 8.425
 Mean Conc. 0.00692mg/l



Sample

Sample Name: lcs 2ppm
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.956mg/L

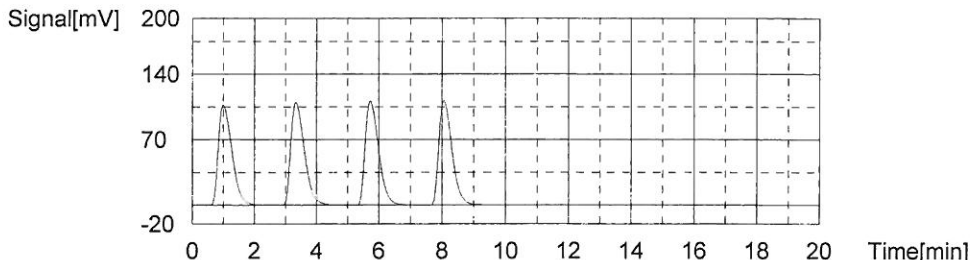
1.96

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	339.2	1.951mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 8:50:15 AM
2	346.0	1.991mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 8:55:38 AM
3	341.6	1.965mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 9:00:04 AM
4	333.4	1.917mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 9:04:27 AM

Mean Area 340.1
 Mean Conc. 1.956mg/L



Sample

Sample Name: 23305-01 2x doc
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.629mg/L

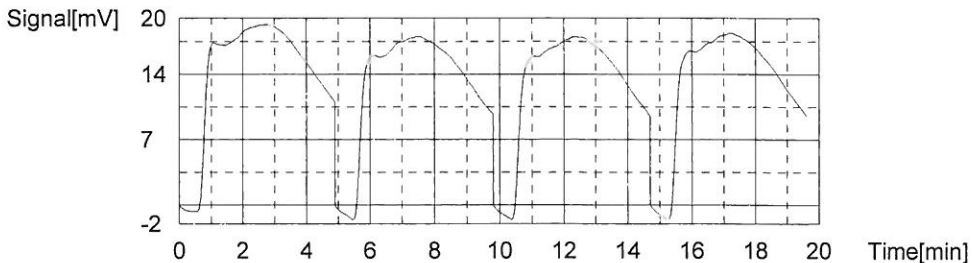
1. Det

Anal.: NPOC

326
 VA

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	285.4	1.634mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 9:22:11 AM
2	283.2	1.622mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 9:30:16 AM
3	279.3	1.599mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 9:38:20 AM
4	289.8	1.660mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 9:46:20 AM

Mean Area 284.4
 Mean Conc. 1.629mg/L



Sample

Sample Name: 23420-01
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.6792mg/L

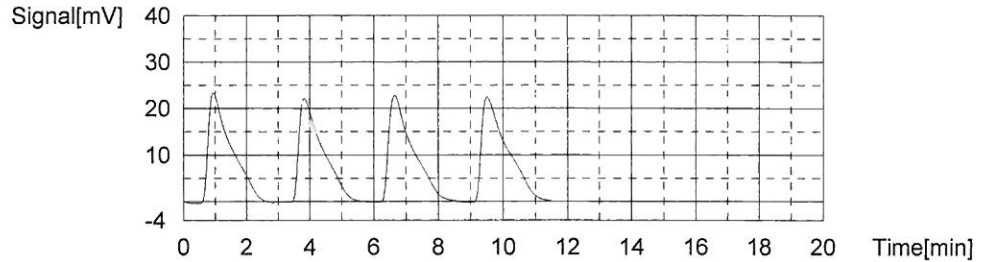
0.67

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	125.4	0.6943mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 9:58:07 AM
2	118.6	0.6543mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 10:03:01 A
3	121.1	0.6690mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 10:08:00 A
4	126.2	0.6990mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 10:13:02 A

Mean Area 122.8
 Mean Conc. 0.6792mg/L



Sample

Sample Name: 23420-02
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.666mg/L

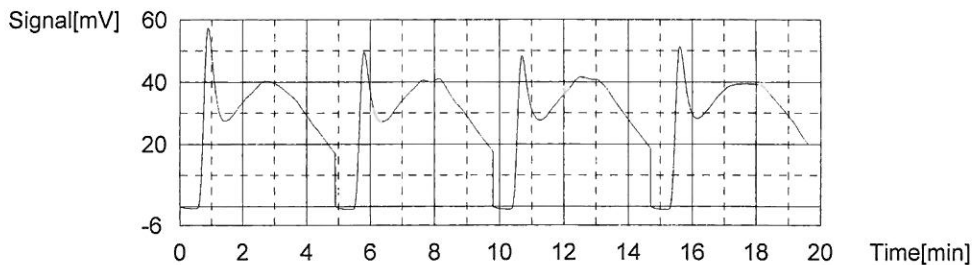
3.67

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	634.4	3.685mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 10:26:51 A
2	634.3	3.685mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 10:35:07 A
3	622.3	3.614mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 10:43:32 A
4	633.2	3.678mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 10:51:47 A

Mean Area 631.0
 Mean Conc. 3.666mg/L



Sample

Sample Name: 23420-03
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:9.769mg/L

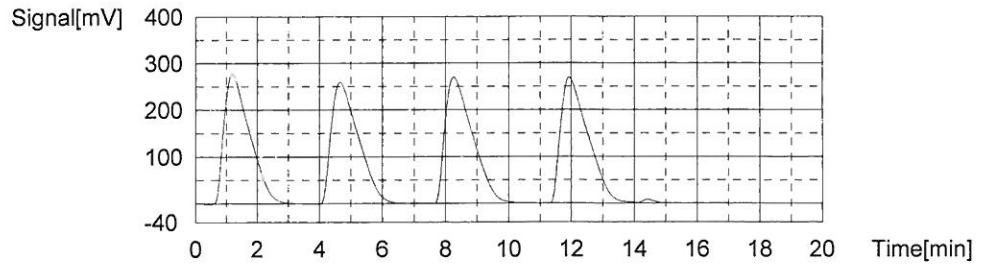
9.77

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1664	9.735mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 11:04:09 A
2	1621	9.483mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 11:11:15 A
3	1685	9.859mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 11:17:01 A
4	1709	10.000mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 11:23:49 A

Mean Area 1670
Mean Conc. 9.769mg/L



Sample

Sample Name: 23420-04
Sample ID:
Origin: toc-3 4 reps method.met
Status Completed
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.967mg/L

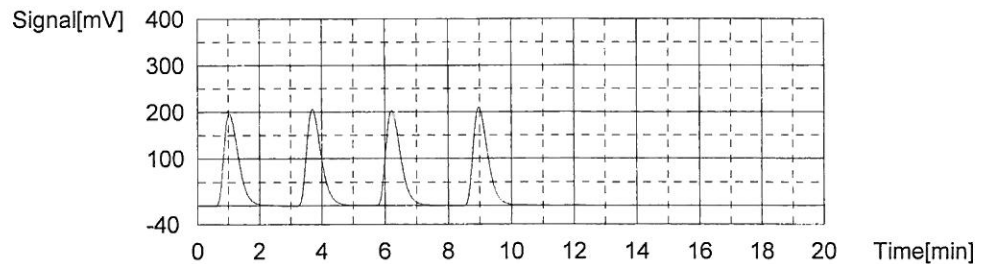
3.97

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	661.7	3.846mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 11:35:23 A
2	690.2	4.013mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 11:40:00 A
3	684.0	3.977mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 11:46:01 A
4	693.7	4.034mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 11:50:48 A

Mean Area 682.4
Mean Conc. 3.967mg/L



Sample

Sample Name: 23616-03 80x
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.084mg/L

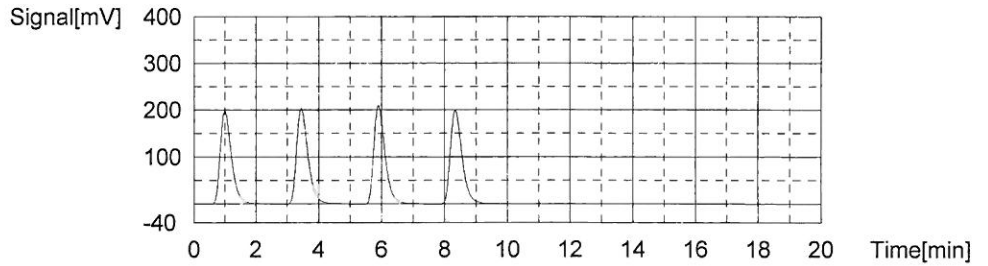
247
80+

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	521.6	3.022mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 12:02:10 P
2	535.5	3.104mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 12:06:44 P
3	532.5	3.086mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 12:11:15 P
4	538.9	3.124mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 12:15:59 P

Mean Area 532.1
 Mean Conc. 3.084mg/L



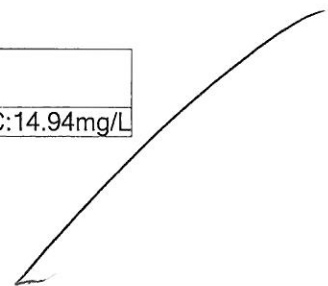
Sample

Sample Name: 23616-04 80x
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:14.94mg/L

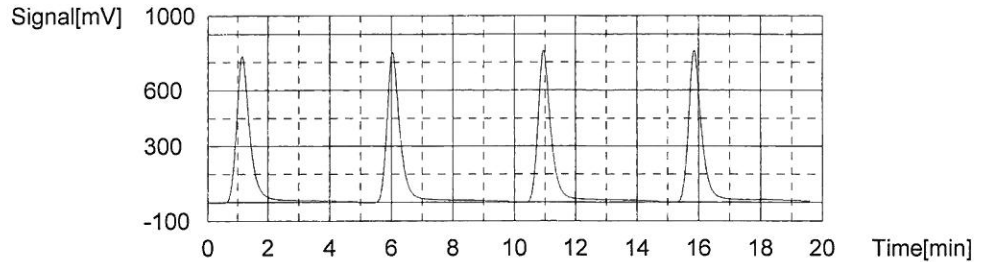
1. Det

Anal.: NPOC



No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2531	14.83mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 12:29:48 P
2	2528	14.81mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 12:37:09 P
3	2565	15.03mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 12:45:56 P
4	2574	15.08mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 12:54:46 P

Mean Area 2550
 Mean Conc. 14.94mg/L



Sample

Sample Name: 23616-06 80x
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.575mg/L

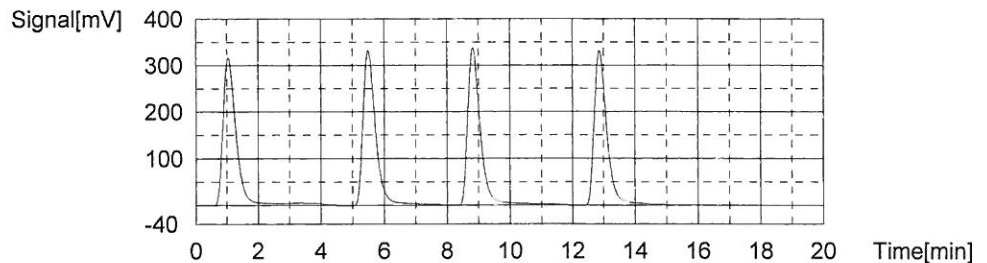
*446
80x*

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	965.0	5.628mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 1:08:09 PM
2	935.9	5.457mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 1:14:09 PM
3	968.1	5.646mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 1:20:39 PM
4	954.7	5.567mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 1:26:18 PM

Mean Area 955.9
 Mean Conc. 5.575mg/L



Sample

Sample Name: ccv 2ppm
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Aborted
 Chk. Result

*memin
(nonal)
7*

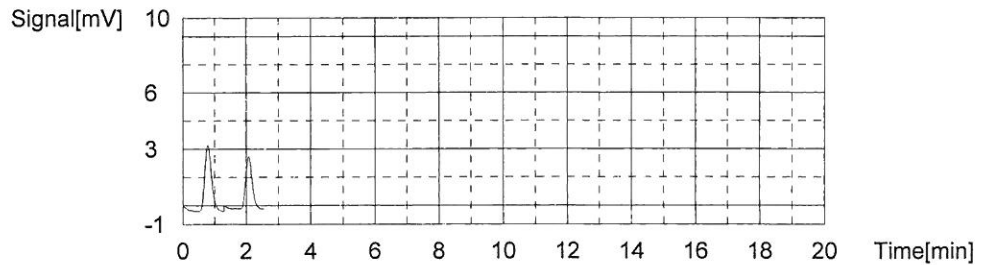
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	!!Failed!! NPOC:-0.01537mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.337	-0.01122mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 1:47:00 PM
2	3.926	-0.01951mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 1:51:14 PM

Mean Area 4.632
 Mean Conc. -0.01537mg/



Sample

Sample Name: ccv 2ppm *rr*
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.007mg/L

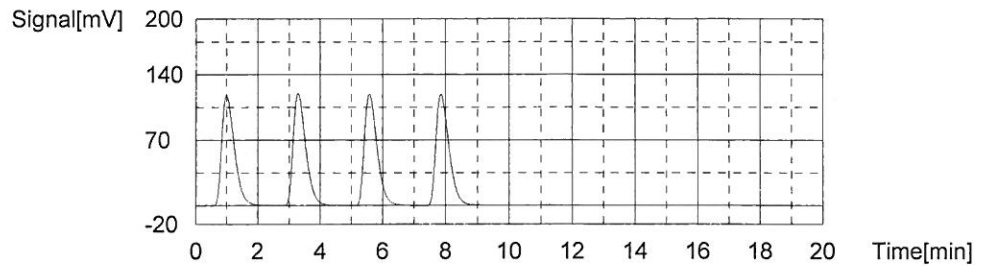
J

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	348.4	2.005mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 2:07:53 PM
2	350.6	2.018mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 2:12:16 PM
3	347.9	2.002mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 2:16:39 PM
4	348.1	2.003mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 2:20:58 PM

Mean Area 348.8
Mean Conc. 2.007mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: toc-3 4 reps method.met
Status Completed
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.02007mg/L

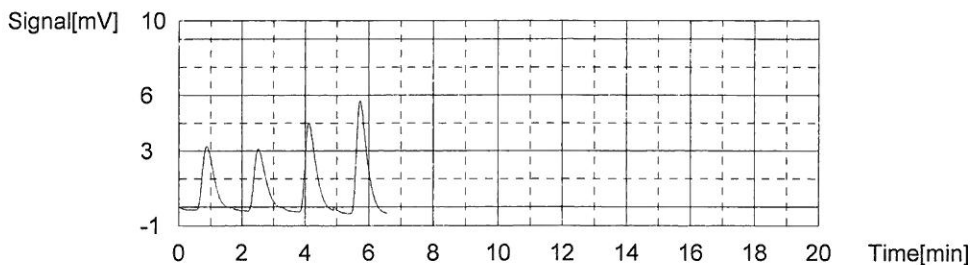
J

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.676	0.00840mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 2:31:32 PM
2	8.445	0.00704mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 2:36:07 PM
3	11.48	0.02487mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 2:40:41 PM
4	14.05	0.03998mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 2:45:18 PM

Mean Area 10.66
Mean Conc. 0.02007mg/l



Sample

Sample Name: 23305-01 dup 2x doc
Sample ID:
Origin: toc-3 4 reps method.met
Status: Completed
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.580mg/L

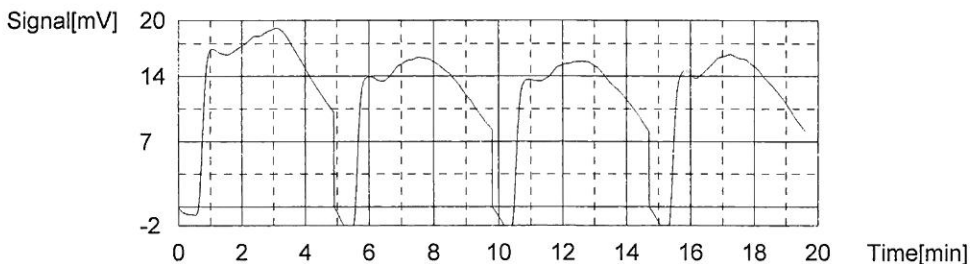
3.16
2A

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	287.7	1.648mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 2:59:07 PM
2	273.4	1.564mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 3:07:10 PM
3	265.3	1.516mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 3:15:15 PM
4	277.8	1.590mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 3:23:18 PM

Mean Area 276.1
Mean Conc. 1.580mg/L



Sample

Sample Name: 23616-04 400x
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.710mg/L

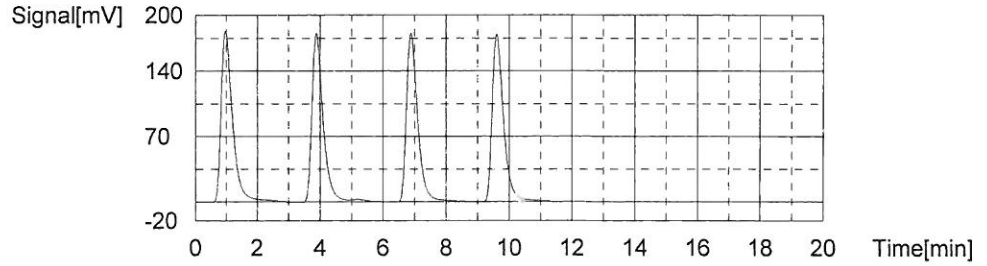
1084
400x

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	489.2	2.832mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 3:35:08 PM
2	464.3	2.686mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 3:40:14 PM
3	458.9	2.654mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 3:45:03 PM
4	461.6	2.670mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 3:49:49 PM

Mean Area 468.5
 Mean Conc. 2.710mg/L



Sample

Sample Name: 23616-03 dup 80x
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.086mg/L

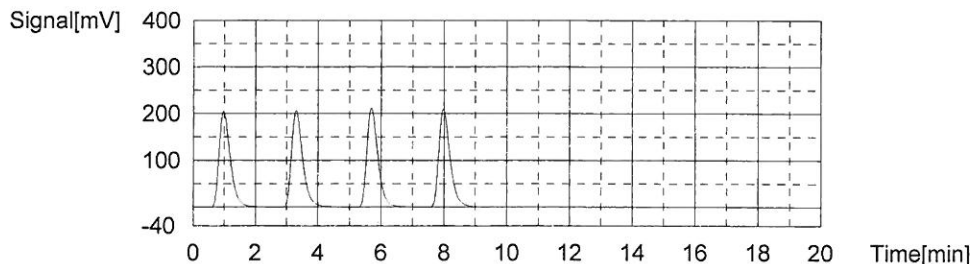
247
80x

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	527.9	3.059mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 4:01:04 PM
2	530.7	3.076mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 4:05:45 PM
3	532.7	3.088mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 4:10:08 PM
4	538.5	3.122mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 4:14:43 PM

Mean Area 532.5
 Mean Conc. 3.086mg/L



Sample

Sample Name: 23616-03 spk 640ppm 160x
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.637mg/L

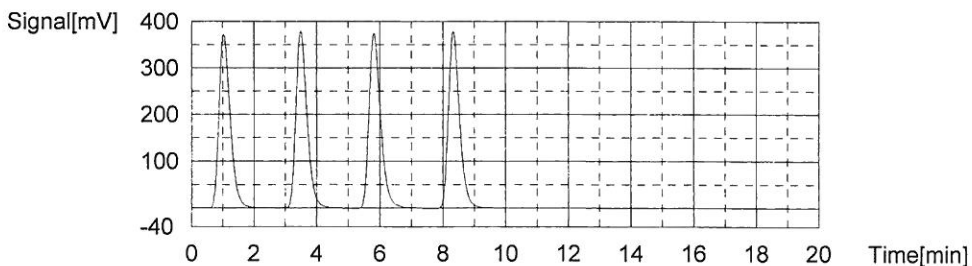
1. Det

Anal.: NPOC

902
160x

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	956.2	5.576mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 4:26:06 PM
2	961.9	5.610mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 4:30:31 PM
3	979.6	5.714mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 4:35:23 PM
4	968.4	5.648mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 4:40:01 PM

Mean Area 966.5
 Mean Conc. 5.637mg/L



Sample

Sample Name: 23738-01
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.842mg/L

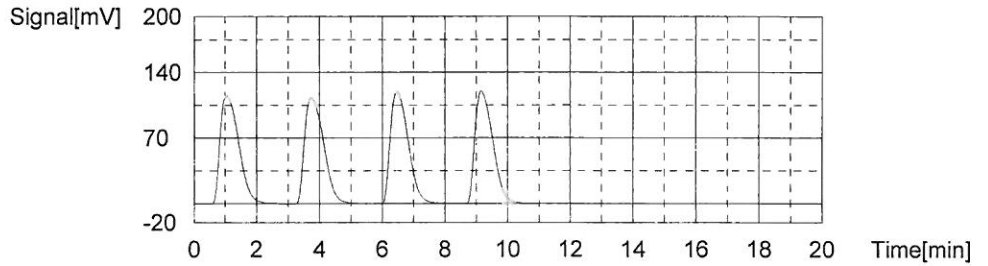
2.84

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	492.0	2.848mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 4:51:37 PM
2	491.2	2.844mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 4:57:35 PM
3	490.9	2.842mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 5:02:23 PM
4	489.7	2.835mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 5:07:08 PM

Mean Area 491.0
 Mean Conc. 2.842mg/L



Sample

Sample Name: 23738-02
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.605mg/L

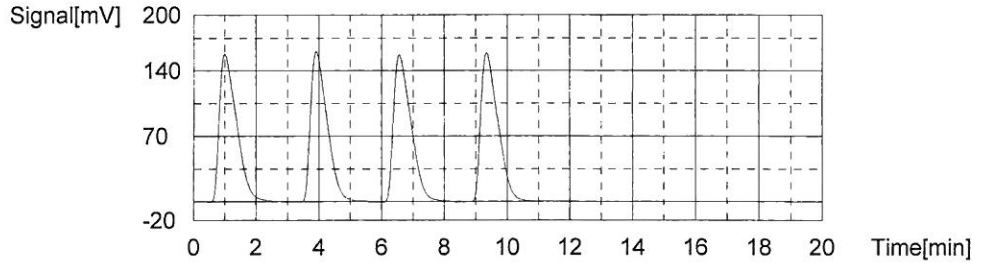
3.61

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	628.8	3.652mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 5:18:57 PM
2	612.7	3.558mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 5:23:42 PM
3	625.4	3.632mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 5:28:35 PM
4	616.3	3.579mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 5:33:28 PM

Mean Area 620.8
Mean Conc. 3.605mg/L



Sample

Sample Name: 23738-03
Sample ID:
Origin: toc-3 4 reps method.met
Status Completed
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.241mg/L

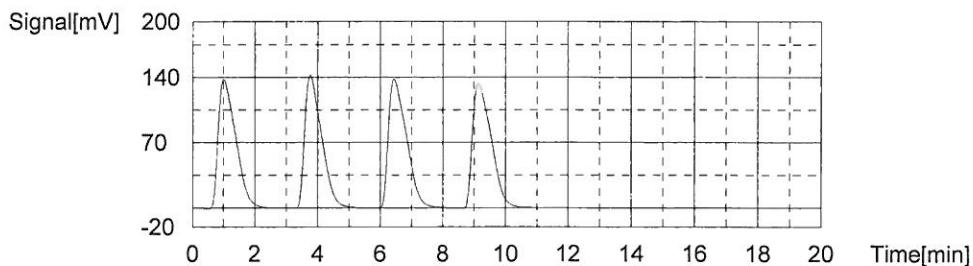
3.24

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	555.6	3.222mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 5:45:08 PM
2	551.9	3.200mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 5:49:55 PM
3	565.8	3.282mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 5:54:42 PM
4	562.2	3.261mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 5:59:43 PM

Mean Area 558.9
Mean Conc. 3.241mg/L



Sample

Sample Name: ccv2ppm
Sample ID:
Origin: toc-3 4 reps method.met
Status Completed
Chk. Result

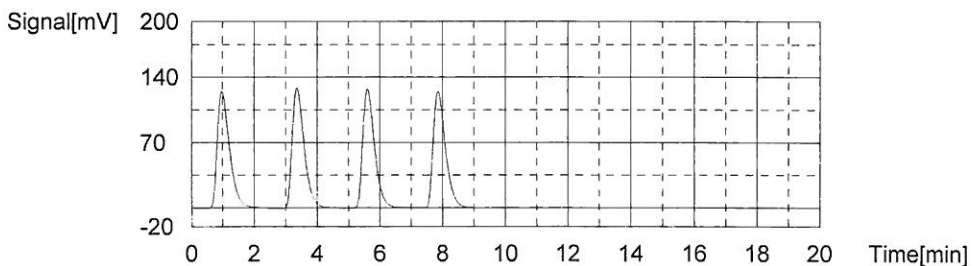
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.011mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	351.3	2.022mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 6:41:03 PM
2	348.4	2.005mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 6:45:24 PM
3	347.1	1.997mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 6:49:45 PM
4	351.3	2.022mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 6:54:08 PM

Mean Area 349.5
Mean Conc. 2.011mg/L



Sample

Sample Name: ccb
 Sample ID:
 Origin: toc-3 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.03435mg/L

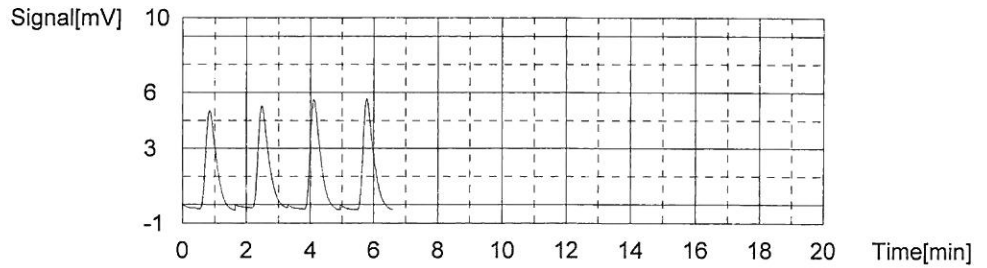


1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.50	0.03087mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:04:42 PM
2	12.84	0.03287mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:09:17 PM
3	13.36	0.03592mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:13:53 PM
4	13.67	0.03774mg/L	2500uL	1		05092016 toc-3.2016_05_09_09	8/2/2016 7:18:27 PM

Mean Area 13.09
 Mean Conc. 0.03435mg/l



Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 03 2016, 10:57 am

Work Group: WG919141 for Department: 7 Wet Chemistry

Created: 02-AUG-16 Due: Operator: dw

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1623305-01	ADD-02_072216_SW_10	S DOC-9060	WATER	DONE	U	0819	0803	S0	Vial-D
WG919141-1	Laboratory Method	Bl S DOC-9060	WATER	DONE	U				
WG919141-2	Laboratory Control	S S DOC-9060	WATER	DONE	U				
WG919141-3	Duplicate Sample	S DOC-9060	WATER	DONE	U				
Comments:									
WG919141-3	L1623305-01								

Alpha Report



ANALYTICAL REPORT

Lab Number:	L1623305
Client:	AMEC Foster Wheeler E & I, Inc. 511 Congress Street P.O. Box 7050 Portland, ME 04112-7050
ATTN:	Rod Pendleton
Phone:	(207) 828-3692
Project Name:	PENOBSCOT RIVER ESTUARY
Project Number:	3616166052
Report Date:	08/03/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: PENOBSCOT RIVER ESTUARY
Project Number: 3616166052

Lab Number: L1623305
Report Date: 08/03/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1623305-01	ADD-02_072216_SW_10	WATER	PENOBSCOT RIVER	07/22/16 16:38	07/27/16

Project Name: PENOBSCOT RIVER ESTUARY
Project Number: 3616166052

Lab Number: L1623305
Report Date: 08/03/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: PENOBSCOT RIVER ESTUARY
Project Number: 3616166052

Lab Number: L1623305
Report Date: 08/03/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Dissolved Organic Carbon

The sample was field filtered; a filter blank was not received.

WG919141: A matrix spike could not be performed due to insufficient sample volume available for analysis.

Solids, Total Suspended

The WG918076-2 Laboratory Duplicate RPD (81%), performed on L1623305-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Lura L Troy

Title: Technical Director/Representative

Date: 08/03/16

INORGANICS & MISCELLANEOUS

Project Name: PENOBSCOT RIVER ESTUARY
Project Number: 3616166052

Lab Number: L1623305
Report Date: 08/03/16

SAMPLE RESULTS

Lab ID: L1623305-01
Client ID: ADD-02_072216_SW_10
Sample Location: PENOBSCOT RIVER
Matrix: Water

Date Collected: 07/22/16 16:38
Date Received: 07/27/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	400		mg/l	10	NA	2	-	07/29/16 00:46	121,2540D	MC
Dissolved Organic Carbon	3.3		mg/l	2.0	0.08	2	08/02/16 07:36	08/02/16 07:36	1,9060A	DW



Project Name: PENOBSCOT RIVER ESTUARY

Lab Number: L1623305

Project Number: 3616166052

Report Date: 08/03/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG918076-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	07/29/16 00:46	121,2540D	MC
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG919141-1										
Dissolved Organic Carbon	ND		mg/l	1.0	0.04	1	08/02/16 07:36	08/02/16 07:36	1,9060A	DW



Lab Control Sample Analysis Batch Quality Control

Project Name: PENOBSCOT RIVER ESTUARY
Project Number: 3616166052

Lab Number: L1623305
Report Date: 08/03/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG919141-2								
Dissolved Organic Carbon	98		-		90-110	-		



Lab Duplicate Analysis Batch Quality Control

Project Name: PENOBSCOT RIVER ESTUARY

Project Number: 3616166052

Lab Number: L1623305

Report Date: 08/03/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG918076-2 QC Sample: L1623305-01 Client ID: ADD-02_072216_SW_10						
Solids, Total Suspended	400	940	mg/l	81	Q	29
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG919141-3 QC Sample: L1623305-01 Client ID: ADD-02_072216_SW_10						
Dissolved Organic Carbon	3.3	3.2	mg/l	3		20

Project Name: PENOBSCOT RIVER ESTUARY**Lab Number:** L1623305**Project Number:** 3616166052**Report Date:** 08/03/16**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1623305-01A	Vial H2SO4 preserved	A	N/A	5.4	Y	Present/Intact	DOC-9060(28)
L1623305-01B	Plastic 950ml unpreserved	A	8	5.4	Y	Present/Intact	TSS-2540(7)

*Values in parentheses indicate holding time in days

Project Name: PENOBSCOT RIVER ESTUARY
Project Number: 3616166052

Lab Number: L1623305
Report Date: 08/03/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers



Project Name: PENOBSCOT RIVER ESTUARY
Project Number: 3616166052

Lab Number: L1623305
Report Date: 08/03/16

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
 - D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
 - E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
 - G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
 - H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
 - I** - The lower value for the two columns has been reported due to obvious interference.
 - M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
 - NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
 - P** - The RPD between the results for the two columns exceeds the method-specified criteria.
 - Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
 - R** - Analytical results are from sample re-analysis.
 - RE** - Analytical results are from sample re-extraction.
 - S** - Analytical results are from modified screening analysis.
 - J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
 - ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: PENOBSCOT RIVER ESTUARY
Project Number: 3616166052

Lab Number: L1623305
Report Date: 08/03/16

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

L1623305

Chain Of Custody/Analysis Request Form

USDC - Penobscot River

AMEC, Suite 200, 511 Congress
Street, Portland, ME

Tech Lead - Louise Venne
Work# 770-421-3461

Lab: Alpha

Proj Chemist - Denise King
508-789-1738

AMEC Job Number = 3616166052

Samp #	Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qty Each	Bottle Size and Material	Preservative	Media Method	Fraction
1601	7/22/2016	16:38	ADD-02_072216_SW_10		2					
			1 vial cap broke - only 1 of 2 sent	FS	1	40 mL	Glass Vial	H2SO4/4 deg C	SW DOC (SW846 9060)	T
				FS	1	1 L	Plastic	4 deg C	SW TSS (Mod 2450D)	T

QC Codes: FS = Field Sample, EB = Equipment Rinsate Blank, MS - Matrix Spike, MSD = Matrix Spike Duplicate

Relinquished: Julie Pallozzi Date: 7 / 26 / 2016 Time: 11:30

Received: CM Date: 7 / 27 / 2016 Time: 09:56

AIRBILL: 8045 4405 6941

ONE COOLER

Tuesday, July 26, 2016

Page 1 of 1



Frontier Global Sciences

11720 Northcreek Pkwy N, Suite 400
Bothell, WA 98011
425.686.1996 Phone
425.686.3096 Fax

30 September 2016

Rod Pendleton
AMEC Foster Wheeler
511 Congress Street
Portland, ME 04101

RE: Penobscot Seawater Total And Diss Hg and MMHg

Enclosed are the analytical results for samples received by Eurofins Frontier Global Sciences. All quality control measurements are within established control limits and there were no analytical difficulties encountered with the exception of those listed in the case narrative section of this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Patrick Garcia-Strickland". The signature is written in a cursive style with a large initial "P".

Patrick Garcia-Strickland
Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB_083016_SW_QC	1608981-01	Water	30-Aug-16 15:15	31-Aug-16 09:20
EB_083016_SW_QC Dissolved	1608981-02	Water	30-Aug-16 15:15	31-Aug-16 09:20
WQ_1b-c_083016_SW_10	1608981-03	Water	30-Aug-16 13:25	31-Aug-16 09:20
WQ_1b-c_083016_SW_10 Dissolved	1608981-04	Water	30-Aug-16 13:25	31-Aug-16 09:20
WQ-2-C_083016_SW_10	1608981-05	Water	30-Aug-16 12:20	31-Aug-16 09:20
WQ-2-C_083016_SW_10 Dissolved	1608981-06	Water	30-Aug-16 12:20	31-Aug-16 09:20
WQ-3-L_083016_SW_10	1608981-07	Water	30-Aug-16 11:20	31-Aug-16 09:20
WQ-3-L_083016_SW_10 Dissolved	1608981-08	Water	30-Aug-16 11:20	31-Aug-16 09:20
WQ_FPT_083016_SW_10	1608981-09	Water	30-Aug-16 10:20	31-Aug-16 09:20
WQ_FPT_083016_SW_10 Dissolved	1608981-10	Water	30-Aug-16 10:20	31-Aug-16 09:20
WQ-ECH_082916_SW_10	1608981-11	Water	29-Aug-16 11:50	31-Aug-16 09:20
WQ-ECH_082916_SW_10 Dissolved	1608981-12	Water	29-Aug-16 11:50	31-Aug-16 09:20
ES-15_082916_SW_10	1608981-13	Water	29-Aug-16 14:00	31-Aug-16 09:20
ES-15_082916_SW_10 Dissolved	1608981-14	Water	29-Aug-16 14:00	31-Aug-16 09:20
OV02_082916_SW_10	1608981-15	Water	29-Aug-16 17:00	31-Aug-16 09:20
OV02_082916_SW_10 Dissolved	1608981-16	Water	29-Aug-16 17:00	31-Aug-16 09:20
OV02_082916_SW_10_DUP	1608981-17	Water	29-Aug-16 17:00	31-Aug-16 09:20
OV02_082916_SW_10_DUP Dissolved	1608981-18	Water	29-Aug-16 17:00	31-Aug-16 09:20

Eurofins Frontier Global Sciences, Inc.

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.

Patrick Garcia-Strickland, Laboratory Director

AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton**Reported:**
30-Sep-16 15:08

SAMPLE RECEIPT

Samples were received at Eurofins Frontier Global Sciences (EFGS) on 8/31/2016 9:20:00 AM . The samples were received intact, on-ice within a sealed cooler at 0.2 degrees Celsius.

SAMPLE PREPARATION AND ANALYSIS

Samples were prepared and analyzed for total mercury by flow injection atomic fluorescence spectrometry (FI-AFS) in accordance with EPA 1631E.

Samples were prepared and analyzed for methyl mercury by cold vapor gas chromatography atomic fluorescence spectrometry (CV-GC-AFS) in accordance with EPA 1630 (EFGS-070).

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 established acceptance criteria with the exception of any items flagged and described in the notes and definitions section of the report.

Eurofins Frontier Global Sciences, Inc.



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.

Patrick Garcia-Strickland, Laboratory Director

SUBCONTRACT ORDER
Eurofins Frontier Global Sciences, Inc.

1608981

SENDING LABORATORY:

Eurofins Frontier Global Sciences, Inc.
11720 North Creek Parkway North, Suite 400
Bothell, WA 98011
Phone: (425) 686-1996
Fax: (425) 686-3096

Project Manager: Amy Goodall

RECEIVING LABORATORY:

Alpha Analytical - MA
8 Walkup Drive
Westborough, MA 01581
Phone: (508) 898-9220
Fax: -

*Do not report
to Eurofins Frontier.*

Please report to AMEC Foster Wheeler.

Analysis

Due: 22-Sep-16 19:00

Comments

Sample ID: WQ_1b-c_083016_SW_10

EFGS Lab ID: 1608981-03 Sampled: 30-Aug-16 13:25

Misc. Subcontract 1

Containers Supplied:

40 mL Glass Vial (C) 40 mL Glass Vial (D)

TOC Analysis by Alpha Analytical-Billing-Only

Sample ID: WQ-2-C_083016_SW_10

EFGS Lab ID: 1608981-05 Sampled: 30-Aug-16 12:20

Misc. Subcontract 1

Containers Supplied:

40 mL Glass Vial (C) 40 mL Glass Vial (D)

TOC Analysis by Alpha Analytical-Billing-Only

Sample ID: WQ-3-L_083016_SW_10

EFGS Lab ID: 1608981-07 Sampled: 30-Aug-16 11:20

Misc. Subcontract 1

Containers Supplied:

40 mL Glass Vial (C) 40 mL Glass Vial (D)

TOC Analysis by Alpha Analytical-Billing-Only

Sample ID: WQ_FPT_083016_SW_10

EFGS Lab ID: 1608981-09 Sampled: 30-Aug-16 10:20

Misc. Subcontract 1

Containers Supplied:

40 mL Glass Vial (C) 40 mL Glass Vial (D)

TOC Analysis by Alpha Analytical-Billing-Only

*Direct Forward from AMEC Foster Wheeler.
Please contact Denise King at AMEC.*

[Signature]

Used By

9/20/16

Date

Received By

Date

[Signature]

Used By

9/20/16

Date

Received By

Date

SUBCONTRACT ORDER
Eurofins Frontier Global Sciences, Inc.
1608981

Analysis Due: 22-Sep-16 19:00 Comments

Sample ID: WQ-ECH_082916_SW_10 EFGS Lab ID: 1608981-11 Sampled: 29-Aug-16 11:50

Misc. Subcontract 1
Containers Supplied: TOC Analysis by Alpha Analytical Billing Only
40 mL Glass Vial (C) 40 mL Glass Vial (D)

Sample ID: OV02_082916_SW_10 EFGS Lab ID: 1608981-15 Sampled: 29-Aug-16 17:00
MS/MSD

Misc. Subcontract 1
Containers Supplied: TOC Analysis by Alpha Analytical Billing Only
40 mL Glass Vial (G) 40 mL Glass Vial (H)

Sample ID: OV02_082916_SW_10_DUP EFGS Lab ID: 1608981-17 Sampled: 29-Aug-16 17:00

Misc. Subcontract 1
Containers Supplied: TOC Analysis by Alpha Analytical Billing Only
40 mL Glass Vial (C) 40 mL Glass Vial (D)

*Direct Forward from AMEC Foster Wheeler.
Please contact Denise King at AMEC*

86W060 SEP 20, 2016 ACT WT 18.8 LBS #PK 1
SVC 1DA BL WT
TRACKING# 1786W0600150898493 ALL CURRENCY USD
DEPT NO.: OVERHEAD
REF 2: DIRECT FORWARD

HC 0.00 CNS 0.00 FRT: SHP
SHIPMENT NR RATE CHARGES: SVC 43.97 USD
DV 0.00 COD 0.00 RS 0.00
DC 0.00 DOD 0.00 ROD 0.00
AH 0.00 PR 0.00 NR + HC43.97
TOT NR CHG 43.97

By *[Signature]* Date 9/20/16 Recei
By *[Signature]* Date 9/20/16 Recei



AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Seawater Total And Diss Hg and MMHg Project Number: 3616166052 Project Manager: Rod Pendleton	Reported: 30-Sep-16 15:08
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EB_083016_SW_QC
1608981-01

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L	1.25	F609484	22-Sep-16	6I23010	23-Sep-16	EPA 1630/FGS-070	U
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	ND	0.08	0.50	ng/L	1	F609420	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	U
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Eurofins Frontier Global Sciences, Inc.

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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

**EB_083016_SW_QC Dissolved
1608981-02**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L	1.25	F609484	22-Sep-16	6I23010	23-Sep-16	EPA 1630/FGS-070	U
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	ND	0.08	0.50	ng/L	1	F609420	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	U
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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Seawater Total And Diss Hg and MMHg Project Number: 3616166052 Project Manager: Rod Pendleton	Reported: 30-Sep-16 15:08
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WQ_1b-c_083016_SW_10
1608981-03

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.336	0.026	0.050	ng/L	1.25	F609484	22-Sep-16	6I23010	23-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	7.83	0.08	0.50	ng/L	1	F609420	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	
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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

**WQ_1b-c_083016_SW_10 Dissolved
1608981-04**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.129	0.026	0.050	ng/L	1.25	F609484	22-Sep-16	6I23010	23-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	1.23	0.08	0.50	ng/L	1	F609420	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	
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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

WQ-2-C_083016_SW_10
1608981-05

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.118	0.026	0.050	ng/L	1.25	F609484	22-Sep-16	6I23010	23-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	3.72	0.08	0.50	ng/L	1	F609420	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	
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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

WQ-2-C_083016_SW_10 Dissolved
1608981-06

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.058	0.026	0.050	ng/L	1.25	F609484	22-Sep-16	6I23010	23-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	1.10	0.08	0.50	ng/L	1	F609420	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	
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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

WQ-3-L_083016_SW_10
1608981-07

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.106	0.026	0.050	ng/L	1.25	F609484	22-Sep-16	6I23010	23-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	6.00	0.08	0.50	ng/L	1	F609420	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	
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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

WQ-3-L_083016_SW_10 Dissolved
1608981-08

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L	1.25	F609484	22-Sep-16	6I23010	23-Sep-16	EPA 1630/FGS-070	U
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	0.59	0.08	0.50	ng/L	1	F609420	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	
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AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Seawater Total And Diss Hg and MMHg Project Number: 3616166052 Project Manager: Rod Pendleton	Reported: 30-Sep-16 15:08
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WQ_FPT_083016_SW_10
1608981-09

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.040	0.026	0.050	ng/L	1.25	F609484	22-Sep-16	6I23010	23-Sep-16	EPA 1630/FGS-070	J
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	1.87	0.08	0.50	ng/L	1	F609420	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	
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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

**WQ_FPT_083016_SW_10 Dissolved
1608981-10**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L	1.25	F609484	22-Sep-16	6I23010	23-Sep-16	EPA 1630/FGS-070	U
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	0.50	0.08	0.50	ng/L	1	F609420	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	
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Eurofins Frontier Global Sciences, Inc.

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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

WQ-ECH_082916_SW_10
1608981-11

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.155	0.026	0.050	ng/L	1.25	F609484	22-Sep-16	6I23010	23-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	9.14	0.08	0.50	ng/L	1	F609420	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	
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Eurofins Frontier Global Sciences, Inc.

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.

Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

**WQ-ECH_082916_SW_10 Dissolved
1608981-12**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L	1.25	F609569	27-Sep-16	6I29013	28-Sep-16	EPA 1630/FGS-070	U
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	0.94	0.08	0.50	ng/L	1	F609427	31-Aug-16	6I20007	19-Sep-16	EPA 1631E	
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Eurofins Frontier Global Sciences, Inc.

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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

ES-15_082916_SW_10
1608981-13

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.345	0.026	0.050	ng/L	1.25	F609569	27-Sep-16	6129013	28-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	21.0	0.08	0.50	ng/L	1	F609427	31-Aug-16	6120007	19-Sep-16	EPA 1631E	
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Eurofins Frontier Global Sciences, Inc.

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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

**ES-15_082916_SW_10 Dissolved
1608981-14**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.055	0.026	0.050	ng/L	1.25	F609569	27-Sep-16	6129013	28-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	2.70	0.08	0.50	ng/L	1	F609427	31-Aug-16	6120007	19-Sep-16	EPA 1631E	
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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

OV02_082916_SW_10
1608981-15

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.205	0.026	0.050	ng/L	1.25	F609569	27-Sep-16	6129013	28-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	2.16	0.08	0.50	ng/L	1	F609427	31-Aug-16	6120007	19-Sep-16	EPA 1631E	
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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

**OV02_082916_SW_10 Dissolved
1608981-16**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.127	0.026	0.050	ng/L	1.25	F609569	27-Sep-16	6129013	28-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	1.27	0.08	0.50	ng/L	1	F609427	31-Aug-16	6120007	19-Sep-16	EPA 1631E	
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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Seawater Total And Diss Hg and MMHg Project Number: 3616166052 Project Manager: Rod Pendleton	Reported: 30-Sep-16 15:08
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OV02_082916_SW_10_DUP
1608981-17

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.167	0.026	0.050	ng/L	1.25	F609569	27-Sep-16	6129013	28-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	1.62	0.08	0.50	ng/L	1	F609427	31-Aug-16	6120007	19-Sep-16	EPA 1631E	
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Patrick Garcia-Strickland, Laboratory Director



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

**OV02_082916_SW_10_DUP Dissolved
1608981-18**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-013 Methyl Hg Distillation for Water

Methyl Mercury (as Mercury)	0.105	0.026	0.050	ng/L	1.25	F609569	27-Sep-16	6129013	28-Sep-16	EPA 1630/FGS-070	
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Sample Preparation: EPA 1631E BrCl Oxidation

Mercury	1.18	0.08	0.50	ng/L	1	F609427	31-Aug-16	6120007	19-Sep-16	EPA 1631E	
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Patrick Garcia-Strickland, Laboratory Director

AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Seawater Total And Diss Hg and MMHg Project Number: 3616166052 Project Manager: Rod Pendleton	Reported: 30-Sep-16 15:08
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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
Batch 6I20007 - F609420											
Cal Standard (6I20007-CAL1)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.46	-		ng/L	0.50100		91.6				
Cal Standard (6I20007-CAL2)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.96	-		ng/L	1.0020		95.3				
Cal Standard (6I20007-CAL3)					Prepared & Analyzed: 19-Sep-16						
Mercury	5.37	-		ng/L	5.0100		107				
Cal Standard (6I20007-CAL4)					Prepared & Analyzed: 19-Sep-16						
Mercury	20.72	-		ng/L	20.040		103				
Cal Standard (6I20007-CAL5)					Prepared & Analyzed: 19-Sep-16						
Mercury	40.66	-		ng/L	40.080		101				
Calibration Blank (6I20007-CCB1)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.11	-		ng/L							
Calibration Blank (6I20007-CCB2)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.06	-		ng/L							
Calibration Blank (6I20007-CCB3)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.22	-		ng/L							
Calibration Blank (6I20007-CCB4)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.13	-		ng/L							
Calibration Blank (6I20007-CCB5)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.10	-		ng/L							

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Patrick Garcia-Strickland, Laboratory Director

AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I20007 - F609420											
Calibration Blank (6I20007-CCB6) Prepared & Analyzed: 19-Sep-16											
Mercury	0.15	-		ng/L							
Calibration Blank (6I20007-CCB7) Prepared & Analyzed: 19-Sep-16											
Mercury	0.20	-		ng/L							
Calibration Blank (6I20007-CCB8) Prepared & Analyzed: 19-Sep-16											
Mercury	0.14	-		ng/L							
Calibration Blank (6I20007-CCB9) Prepared & Analyzed: 19-Sep-16											
Mercury	0.16	-		ng/L							
Calibration Blank (6I20007-CCBA) Prepared & Analyzed: 19-Sep-16											
Mercury	0.09	-		ng/L							
Calibration Blank (6I20007-CCBB) Prepared & Analyzed: 19-Sep-16											
Mercury	0.18	-		ng/L							
Calibration Check (6I20007-CCV1) Prepared & Analyzed: 19-Sep-16											
Mercury	5.49	-		ng/L	5.0000		110	77-123			
Calibration Check (6I20007-CCV2) Prepared & Analyzed: 19-Sep-16											
Mercury	5.29	-		ng/L	5.0000		106	77-123			
Calibration Check (6I20007-CCV3) Prepared & Analyzed: 19-Sep-16											
Mercury	5.91	-		ng/L	5.0000		118	77-123			
Calibration Check (6I20007-CCV4) Prepared & Analyzed: 19-Sep-16											
Mercury	5.67	-		ng/L	5.0000		113	77-123			

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AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Seawater Total And Diss Hg and MMHg Project Number: 3616166052 Project Manager: Rod Pendleton	Reported: 30-Sep-16 15:08
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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
Batch 6I20007 - F609420											
Calibration Check (6I20007-CCV5)					Prepared & Analyzed: 19-Sep-16						
Mercury	5.59	-		ng/L	5.0000		112	77-123			
Calibration Check (6I20007-CCV6)					Prepared & Analyzed: 19-Sep-16						
Mercury	5.52	-		ng/L	5.0000		110	77-123			
Calibration Check (6I20007-CCV7)					Prepared & Analyzed: 19-Sep-16						
Mercury	5.79	-		ng/L	5.0000		116	77-123			
Calibration Check (6I20007-CCV8)					Prepared & Analyzed: 19-Sep-16						
Mercury	5.28	-		ng/L	5.0000		106	77-123			
Calibration Check (6I20007-CCV9)					Prepared & Analyzed: 19-Sep-16						
Mercury	5.85	-		ng/L	5.0000		117	77-123			
Calibration Check (6I20007-CCVA)					Prepared & Analyzed: 19-Sep-16						
Mercury	5.59	-		ng/L	5.0000		112	77-123			
Calibration Check (6I20007-CCVB)					Prepared & Analyzed: 19-Sep-16						
Mercury	5.09	-		ng/L	5.0000		102	77-123			
Instrument Blank (6I20007-IBL1)					Prepared & Analyzed: 19-Sep-16						
Mercury	ND	0.08	0.50	ng/L							U
Instrument Blank (6I20007-IBL2)					Prepared & Analyzed: 19-Sep-16						
Mercury	ND	0.08	0.50	ng/L							U
Instrument Blank (6I20007-IBL3)					Prepared & Analyzed: 19-Sep-16						
Mercury	ND	0.08	0.50	ng/L							U

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Patrick Garcia-Strickland, Laboratory Director

AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Seawater Total And Diss Hg and MMHg Project Number: 3616166052 Project Manager: Rod Pendleton	Reported: 30-Sep-16 15:08
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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
Batch 6I20007 - F609420											
Initial Cal Check (6I20007-ICV1)					Prepared & Analyzed: 19-Sep-16						
Mercury	5.70	-		ng/L	5.0000		114	77-123			
Batch 6I23010 - F609484											
Cal Standard (6I23010-CAL1)					Prepared & Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	0.048	-		ng/L	0.050050		95.1				
Cal Standard (6I23010-CAL2)					Prepared & Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	0.211	-		ng/L	0.20020		105				
Cal Standard (6I23010-CAL3)					Prepared & Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	0.978	-		ng/L	1.0010		97.7				
Cal Standard (6I23010-CAL4)					Prepared & Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	1.966	-		ng/L	2.0020		98.2				
Cal Standard (6I23010-CAL5)					Prepared & Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	4.127	-		ng/L	4.0040		103				
Calibration Blank (6I23010-CCB1)					Prepared & Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	0.005	-		ng/L							
Calibration Blank (6I23010-CCB2)					Prepared & Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	0.0002	-		ng/L							
Calibration Blank (6I23010-CCB3)					Prepared & Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	0.002	-		ng/L							

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AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I23010 - F609484											
Calibration Blank (6I23010-CCB4) Prepared & Analyzed: 23-Sep-16											
Methyl Mercury (as Mercury)	0.002	-		ng/L							
Calibration Blank (6I23010-CCB5) Prepared & Analyzed: 23-Sep-16											
Methyl Mercury (as Mercury)	0.001	-		ng/L							
Calibration Check (6I23010-CCV1) Prepared & Analyzed: 23-Sep-16											
Methyl Mercury (as Mercury)	0.642	-		ng/L	0.50049		128	67-133			
Calibration Check (6I23010-CCV3) Prepared & Analyzed: 23-Sep-16											
Methyl Mercury (as Mercury)	0.534	-		ng/L	0.50049		107	67-133			
Calibration Check (6I23010-CCV4) Prepared & Analyzed: 23-Sep-16											
Methyl Mercury (as Mercury)	0.490	-		ng/L	0.50049		97.9	67-133			
Calibration Check (6I23010-CCV6) Prepared & Analyzed: 23-Sep-16											
Methyl Mercury (as Mercury)	0.488	-		ng/L	0.50049		97.6	67-133			
Calibration Check (6I23010-CCV7) Prepared & Analyzed: 23-Sep-16											
Methyl Mercury (as Mercury)	0.500	-		ng/L	0.50049		99.8	67-133			
Instrument Blank (6I23010-IBL1) Prepared & Analyzed: 23-Sep-16											
Methyl Mercury (as Mercury)	ND	0.021	0.040	ng/L							U
Initial Cal Blank (6I23010-ICB1) Prepared & Analyzed: 23-Sep-16											
Methyl Mercury (as Mercury)	0.011	-		ng/L							
Initial Cal Check (6I23010-ICV1) Prepared & Analyzed: 23-Sep-16											
Methyl Mercury (as Mercury)	0.556	-		ng/L	0.50049		111	67-133			

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511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I29013 - F609569											
Cal Standard (6I29013-CAL1)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.052	-		ng/L	0.050050		103				
Cal Standard (6I29013-CAL2)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.200	-		ng/L	0.20020		100				
Cal Standard (6I29013-CAL3)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	1.002	-		ng/L	1.0010		100				
Cal Standard (6I29013-CAL4)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	1.821	-		ng/L	2.0020		91.0				
Cal Standard (6I29013-CAL5)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	4.211	-		ng/L	4.0040		105				
Calibration Blank (6I29013-CCB1)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.007	-		ng/L							
Calibration Blank (6I29013-CCB2)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.003	-		ng/L							
Calibration Blank (6I29013-CCB3)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.003	-		ng/L							
Calibration Check (6I29013-CCV1)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.653	-		ng/L	0.50049		130	67-133			
Calibration Check (6I29013-CCV2)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.586	-		ng/L	0.50049		117	67-133			

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Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I29013 - F609569											
Calibration Check (6I29013-CCV3)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.585	-		ng/L	0.50049		117	67-133			
Instrument Blank (6I29013-IBL1)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	ND	0.021	0.040	ng/L							U
Initial Cal Blank (6I29013-ICB1)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.010	-		ng/L							
Initial Cal Check (6I29013-ICV1)					Prepared & Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.625	-		ng/L	0.50049		125	67-133			
Batch F609420 - EPA 1631E BrCl Oxidation											
Blank (F609420-BLK1)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.18	0.08	0.50	ng/L							J
Blank (F609420-BLK2)					Prepared & Analyzed: 19-Sep-16						
Mercury	ND	0.08	0.50	ng/L							U
Blank (F609420-BLK3)					Prepared & Analyzed: 19-Sep-16						
Mercury	ND	0.08	0.50	ng/L							U
LCS (F609420-BS1)					Prepared & Analyzed: 19-Sep-16						
Mercury	16.48	0.08	0.50	ng/L	15.679		105	80-120			
LCS Dup (F609420-BSD1)					Prepared & Analyzed: 19-Sep-16						
Mercury	16.65	0.08	0.50	ng/L	15.679		106	80-120	1.03	24	

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AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Seawater Total And Diss Hg and MMHg Project Number: 3616166052 Project Manager: Rod Pendleton	Reported: 30-Sep-16 15:08
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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
Batch F609420 - EPA 1631E BrCl Oxidation											
Duplicate (F609420-DUP1) Source: 1608742-01 Prepared & Analyzed: 19-Sep-16											
Mercury	0.86	0.08	0.50	ng/L		1.00			14.8	24	
Matrix Spike (F609420-MS1) Source: 1608742-05 Prepared & Analyzed: 19-Sep-16											
Mercury	6.06	0.08	0.50	ng/L	5.0601	1.01	99.9	71-125			
Matrix Spike (F609420-MS2) Source: 1608981-03 Prepared & Analyzed: 19-Sep-16											
Mercury	29.10	0.08	0.50	ng/L	20.240	7.83	105	71-125			
Matrix Spike Dup (F609420-MSD1) Source: 1608742-05 Prepared & Analyzed: 19-Sep-16											
Mercury	6.24	0.08	0.50	ng/L	5.0601	1.01	104	71-125	3.02	24	
Matrix Spike Dup (F609420-MSD2) Source: 1608981-03 Prepared & Analyzed: 19-Sep-16											
Mercury	29.48	0.08	0.50	ng/L	20.240	7.83	107	71-125	1.29	24	
Batch F609427 - EPA 1631E BrCl Oxidation											
Blank (F609427-BLK1) Prepared & Analyzed: 19-Sep-16											
Mercury	0.08	0.08	0.50	ng/L							J
Blank (F609427-BLK2) Prepared & Analyzed: 19-Sep-16											
Mercury	ND	0.08	0.50	ng/L							U
Blank (F609427-BLK3) Prepared & Analyzed: 19-Sep-16											
Mercury	ND	0.08	0.50	ng/L							U
Blank (F609427-BLK4) Prepared & Analyzed: 19-Sep-16											
Mercury	2.79	1.65	9.90	ng/L							QB-08, J

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Patrick Garcia-Strickland, Laboratory Director

AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Seawater Total And Diss Hg and MMHg Project Number: 3616166052 Project Manager: Rod Pendleton	Reported: 30-Sep-16 15:08
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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 F609427 - EPA 1631E BrCl Oxidation

LCS (F609427-BS1)					Prepared & Analyzed: 19-Sep-16						
Mercury	15.76	0.08	0.50	ng/L	15.679		101	80-120			
LCS Dup (F609427-BSD1)					Prepared & Analyzed: 19-Sep-16						
Mercury	16.88	0.08	0.50	ng/L	15.679		108	80-120	6.85	24	
Duplicate (F609427-DUP1)					Source: 1608981-15 Prepared & Analyzed: 19-Sep-16						
Mercury	2.33	0.08	0.50	ng/L		2.16			7.50	24	
Matrix Spike (F609427-MS1)					Source: 1608981-15 Prepared & Analyzed: 19-Sep-16						
Mercury	12.99	0.08	0.50	ng/L	10.120	2.16	107	71-125			
Matrix Spike (F609427-MS2)					Source: 1608981-16 Prepared & Analyzed: 19-Sep-16						
Mercury	6.40	0.08	0.50	ng/L	5.0601	1.27	101	71-125			
Matrix Spike Dup (F609427-MSD1)					Source: 1608981-15 Prepared & Analyzed: 19-Sep-16						
Mercury	12.92	0.08	0.50	ng/L	10.120	2.16	106	71-125	0.541	24	
Matrix Spike Dup (F609427-MSD2)					Source: 1608981-16 Prepared & Analyzed: 19-Sep-16						
Mercury	6.51	0.08	0.50	ng/L	5.0601	1.27	104	71-125	1.77	24	

Batch F609484 - EFGS-013 Methyl Hg Distillation for Water

Blank (F609484-BLK1)					Prepared: 22-Sep-16 Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
Blank (F609484-BLK2)					Prepared: 22-Sep-16 Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U

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AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

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 F609484 - EFGS-013 Methyl Hg Distillation for Water

Blank (F609484-BLK3)					Prepared: 22-Sep-16 Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
LCS (F609484-BS1)					Prepared: 22-Sep-16 Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	1.106	0.026	0.050	ng/L	1.0010		110	70-130			
LCS Dup (F609484-BSD1)					Prepared: 22-Sep-16 Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	1.158	0.026	0.050	ng/L	1.0010		116	70-130	4.64	25	
Duplicate (F609484-DUP1)					Source: 1608741-01 Prepared: 22-Sep-16 Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	0.053	0.026	0.050	ng/L		0.053			0.674	35	
Matrix Spike (F609484-MS1)					Source: 1608742-05 Prepared: 22-Sep-16 Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	1.261	0.026	0.050	ng/L	1.0010	0.129	113	65-130			
Matrix Spike (F609484-MS2)					Source: 1608981-01 Prepared: 22-Sep-16 Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	1.111	0.026	0.050	ng/L	1.0010	ND	111	65-130			
Matrix Spike Dup (F609484-MSD1)					Source: 1608742-05 Prepared: 22-Sep-16 Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	1.266	0.026	0.050	ng/L	1.0010	0.129	114	65-130	0.388	35	
Matrix Spike Dup (F609484-MSD2)					Source: 1608981-01 Prepared: 22-Sep-16 Analyzed: 23-Sep-16						
Methyl Mercury (as Mercury)	1.052	0.026	0.050	ng/L	1.0010	ND	105	65-130	5.47	35	

Batch F609569 - EFGS-013 Methyl Hg Distillation for Water

Blank (F609569-BLK1)					Prepared: 26-Sep-16 Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U

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Patrick Garcia-Strickland, Laboratory Director

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.

AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Seawater Total And Diss Hg and MMHg Project Number: 3616166052 Project Manager: Rod Pendleton	Reported: 30-Sep-16 15:08
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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 F609569 - EFGS-013 Methyl Hg Distillation for Water

Blank (F609569-BLK2)					Prepared: 26-Sep-16 Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
Blank (F609569-BLK3)					Prepared: 26-Sep-16 Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	ND	0.026	0.050	ng/L							U
LCS (F609569-BS1)					Prepared: 26-Sep-16 Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.977	0.026	0.050	ng/L	1.0010		97.6	70-130			
LCS Dup (F609569-BSD1)					Prepared: 26-Sep-16 Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.956	0.026	0.050	ng/L	1.0010		95.5	70-130	2.15	25	
Duplicate (F609569-DUP1)					Source: 1608980-03RE1 Prepared: 26-Sep-16 Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	0.091	0.026	0.050	ng/L		0.099			8.44	35	
Matrix Spike (F609569-MS1)					Source: 1608981-15RE1 Prepared: 26-Sep-16 Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	1.313	0.026	0.050	ng/L	1.0010	0.205	111	65-130			
Matrix Spike (F609569-MS2)					Source: 1608981-16RE1 Prepared: 26-Sep-16 Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	1.273	0.026	0.050	ng/L	1.0010	0.127	114	65-130			
Matrix Spike Dup (F609569-MSD1)					Source: 1608981-15RE1 Prepared: 26-Sep-16 Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	1.297	0.026	0.050	ng/L	1.0010	0.205	109	65-130	1.17	35	
Matrix Spike Dup (F609569-MSD2)					Source: 1608981-16RE1 Prepared: 26-Sep-16 Analyzed: 28-Sep-16						
Methyl Mercury (as Mercury)	1.342	0.026	0.050	ng/L	1.0010	0.127	121	65-130	5.27	35	

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Patrick Garcia-Strickland, Laboratory Director

AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Seawater Total And Diss Hg and MMHg
Project Number: 3616166052
Project Manager: Rod Pendleton

Reported:
30-Sep-16 15:08

Notes and Definitions

- 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.
- QB-08 The blank was preserved to 50% BrCl rather than 1%. The control limit for blanks preserved to greater than 1% BrCl is the preservation percentage multiplied by the MRL.
- J The result is an estimated concentration.
- FB This blank is a filtration blank. Data is reported for informational purposes only.
- 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

Analysis Datasheet for Total Mercury

Date of Analysis: September 19, 2016

Instrument #: Hg2600-2

LIMS Sequence #: 6120016, 6120007

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	114.45 units	228.89	93.03 units	186.06	91.8 %Rec
SEQ-CAL2	1	1.00 ng/L	215.04 units	215.04	193.63 units	193.63	95.5 %Rec
SEQ-CAL3	1	5.00 ng/L	1110.72 units	222.14	1089.31 units	217.86	107.5 %Rec
SEQ-CAL4	1	20.00 ng/L	4221.52 units	211.08	4200.10 units	210.01	103.6 %Rec
SEQ-CAL5	1	40.00 ng/L	8263.15 units	206.58	8241.74 units	206.04	101.6 %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
 202.72 +/- 12.78 6.3% RSD 216.75

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	3	21.41 units	±3.42	0.10 ng/L	±0.02

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.104 ng/L	±0.061
BLK	2	3	0.055 ng/L	±0.030
BLK	3	1	1.394 ng/L	
BLK	4	3	2.077 ng/L	±0.602
BLK	5	0	0.000 ng/L	
BLK	6	0	0.000 ng/L	

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber							Correction?	RESP				
Hg2600-2	DM2	CAL	SEQ-IBL1	1	9/19/2016 5:48:10	61081-1.RAW	5:48:10 AM	21.94				0.5	0.003	0.003	ng/L
Hg2600-2	DM2	CAL	SEQ-IBL2	1	9/19/2016 5:52:18	61082-1.RAW	5:52:18 AM	17.76				-3.7	-0.018	-0.018	ng/L
Hg2600-2	DM2	CAL	SEQ-IBL3	1	9/19/2016 5:56:27	61083-1.RAW	5:56:27 AM	24.54				3.1	0.015	0.015	ng/L
Hg2600-2	DM2	CAL	SEQ-CAL1	1	9/19/2016 6:00:35	61084-1.RAW	6:00:35 AM	114.45				93.0	0.459	0.459	ng/L
Hg2600-2	DM2	CAL	SEQ-CAL2	1	9/19/2016 6:04:44	61085-1.RAW	6:04:44 AM	215.04				193.6	0.955	0.955	ng/L
Hg2600-2	DM2	CAL	SEQ-CAL3	1	9/19/2016 6:08:52	61086-1.RAW	6:08:52 AM	1110.72				1089.3	5.373	5.373	ng/L
Hg2600-2	DM2	CAL	SEQ-CAL4	1	9/19/2016 6:13:01	61087-1.RAW	6:13:01 AM	4221.52				4200.1	20.719	20.719	ng/L
Hg2600-2	DM2	CAL	SEQ-CAL5	1	9/19/2016 6:17:10	61088-1.RAW	6:17:10 AM	8263.15				8241.7	40.656	40.656	ng/L
Hg2600-2	DM2	CAL	SEQ-ICV1	1	9/19/2016 6:21:18	61089-1.RAW	6:21:18 AM	1176.59				1155.1	5.698	5.698	ng/L
Hg2600-2	DM2	BLK	F609420-BLK1	1	9/19/2016 6:25:27	61090-1.RAW	6:25:27 AM	56.78		1		35.4	0.174	0.174	ng/L
Hg2600-2	DM2	BLK	F609420-BLK2	1	9/19/2016 6:29:35	61091-1.RAW	6:29:35 AM	36.05		1		14.6	0.072	0.072	ng/L
Hg2600-2	DM2	BLK	F609420-BLK3	1	9/19/2016 6:33:44	61092-1.RAW	6:33:44 AM	34.91		1		13.5	0.067	0.067	ng/L
Hg2600-2	DM2	SAM	F609420-BS1	1	9/19/2016 6:37:52	61093-1.RAW	6:37:52 AM	3349.36		1		3327.9	16.312	16.312	ng/L
Hg2600-2	DM2	SAM	F609420-BSD1	1	9/19/2016 6:42:01	61094-1.RAW	6:42:01 AM	3383.46		1		3362.0	16.480	16.480	ng/L
Hg2600-2	DM2	SAM	+1608742-01	1	9/19/2016 6:46:09	61095-1.RAW	6:46:09 AM	243.69		1		222.3	0.992	0.992	ng/L
Hg2600-2	DM2	SAM	+1608742-02	1	9/19/2016 6:50:18	61096-1.RAW	6:50:18 AM	76.87		1		55.5	0.169	0.169	ng/L
Hg2600-2	DM2	SAM	+1608742-03	1	9/19/2016 6:54:26	61097-1.RAW	6:54:26 AM	180.71		1		159.3	0.681	0.681	ng/L
Hg2600-2	DM2	SAM	+1608742-04	1	9/19/2016 6:58:34	61098-1.RAW	6:58:34 AM	143.43		1		122.0	0.497	0.497	ng/L
Hg2600-2	DM2	SAM	+1608742-05	1	9/19/2016 7:02:43	61099-1.RAW	7:02:43 AM	244.52		1		223.1	0.996	0.996	ng/L
Hg2600-2	DM2	CAL	SEQ-CCV1	1	9/19/2016 7:06:51	61100-1.RAW	7:06:51 AM	1134.52				1113.1	5.491	5.491	ng/L
Hg2600-2	DM2	CAL	SEQ-CCB1	1	9/19/2016 7:11:00	61101-1.RAW	7:11:00 AM	44.15				22.7	0.112	0.112	ng/L
Hg2600-2	DM2	SAM	+1608742-06	1	9/19/2016 7:15:08	61102-1.RAW	7:15:08 AM	83.35		1		61.9	0.201	0.201	ng/L
Hg2600-2	DM2	SAM	+1608742-07	1	9/19/2016 7:19:17	61103-1.RAW	7:19:17 AM	352.56		1		331.1	1.529	1.529	ng/L
Hg2600-2	DM2	SAM	+1608742-08	1	9/19/2016 7:23:25	61104-1.RAW	7:23:25 AM	38.44		1		17.0	-0.020	-0.020	ng/L
Hg2600-2	DM2	SAM	+1608742-10	1	9/19/2016 7:27:34	61105-1.RAW	7:27:34 AM	34.13		1		12.7	-0.042	-0.042	ng/L
Hg2600-2	DM2	SAM	+1608981-01	1	9/19/2016 7:31:42	61106-1.RAW	7:31:42 AM	30.87		1		9.5	-0.058	-0.058	ng/L
Hg2600-2	DM2	SAM	+1608981-02	1	9/19/2016 7:35:50	61107-1.RAW	7:35:50 AM	34.82		1		13.4	-0.038	-0.038	ng/L
Hg2600-2	DM2	SAM	+1608981-03	1	9/19/2016 7:39:59	61108-1.RAW	7:39:59 AM	1614.44		1		1593.0	7.754	7.754	ng/L
Hg2600-2	DM2	SAM	+1608981-04	1	9/19/2016 7:44:07	61109-1.RAW	7:44:07 AM	289.97		1		268.6	1.220	1.220	ng/L
Hg2600-2	DM2	SAM	+1608981-05	1	9/19/2016 7:48:16	61110-1.RAW	7:48:16 AM	789.04		1		767.6	3.682	3.682	ng/L
Hg2600-2	DM2	SAM	+1608981-06	1	9/19/2016 7:52:24	61111-1.RAW	7:52:24 AM	263.25		1		241.8	1.089	1.089	ng/L
Hg2600-2	DM2	CAL	SEQ-CCV2	1	9/19/2016 7:56:33	61112-1.RAW	7:56:33 AM	1093.42				1072.0	5.288	5.288	ng/L
Hg2600-2	DM2	CAL	SEQ-CCB2	1	9/19/2016 8:00:41	61113-1.RAW	8:00:41 AM	33.38				12.0	0.059	0.059	ng/L
Hg2600-2	DM2	SAM	+1608981-07	1	9/19/2016 8:04:50	61114-1.RAW	8:04:50 AM	1245.86		1		1224.4	5.936	5.936	ng/L
Hg2600-2	DM2	SAM	+1608981-08	1	9/19/2016 8:08:58	61115-1.RAW	8:08:58 AM	161.87		1		140.5	0.588	0.588	ng/L
Hg2600-2	DM2	SAM	+1608981-09	1	9/19/2016 8:13:06	61116-1.RAW	8:13:06 AM	418.22		1		396.8	1.853	1.853	ng/L
Hg2600-2	DM2	SAM	+1608981-10	1	9/19/2016 8:17:15	61117-1.RAW	8:17:15 AM	142.50		1		121.1	0.493	0.493	ng/L
Hg2600-2	DM2	SAM	+1608981-11	1	9/19/2016 8:21:23	61118-1.RAW	8:21:23 AM	1876.51		1		1855.1	9.047	9.047	ng/L
Hg2600-2	DM2	SAM	F609420-DUP1	1	9/19/2016 8:25:32	61119-1.RAW	8:25:32 AM	215.90		1		194.5	0.855	0.855	ng/L
Hg2600-2	DM2	SAM	F609420-MS1	1	9/19/2016 8:29:40	61120-1.RAW	8:29:40 AM	1258.64		1		1237.2	5.999	5.999	ng/L
Hg2600-2	DM2	SAM	F609420-MSD1	1	9/19/2016 8:33:49	61121-1.RAW	8:33:49 AM	1295.87		1		1274.5	6.182	6.182	ng/L
Hg2600-2	DM2	SAM	F609420-MS2	1	9/19/2016 8:37:57	61122-1.RAW	8:37:57 AM	5883.37		1		5862.0	28.812	28.812	ng/L
Hg2600-2	DM2	SAM	F609420-MSD2	1	9/19/2016 8:42:06	61123-1.RAW	8:42:06 AM	5959.42		1		5938.0	29.187	29.187	ng/L
Hg2600-2	DM2	CAL	SEQ-CCV3	1	9/19/2016 8:46:14	61124-1.RAW	8:46:14 AM	1218.88				1197.5	5.907	5.907	ng/L
Hg2600-2	DM2	CAL	SEQ-CCB3	1	9/19/2016 8:50:22	61125-1.RAW	8:50:22 AM	65.48				44.1	0.217	0.217	ng/L
Hg2600-2	DM2	BLK	F609427-BLK1	1	9/19/2016 8:54:32	61126-1.RAW	8:54:32 AM	36.95		2		15.5	0.077	0.077	ng/L
Hg2600-2	DM2	BLK	F609427-BLK2	1	9/19/2016 8:58:40	61127-1.RAW	8:58:40 AM	35.28		2		13.9	0.068	0.068	ng/L
Hg2600-2	DM2	BLK	F609427-BLK3	1	9/19/2016 9:02:49	61128-1.RAW	9:02:49 AM	25.59		2		4.2	0.021	0.021	ng/L
Hg2600-2	DM2	BLK	F609427-BLK4	10	9/19/2016 9:06:56	61129-1.RAW	9:06:56 AM	49.67		3		28.3	0.139	1.394	ng/L
Hg2600-2	DM2	SAM	F609427-BS1	1	9/19/2016 9:11:04	61130-1.RAW	9:11:04 AM	3195.68		2		3174.3	15.603	15.603	ng/L
Hg2600-2	DM2	SAM	F609427-BSD1	1	9/19/2016 9:15:12	61131-1.RAW	9:15:12 AM	3420.18		2		3398.8	16.711	16.711	ng/L
Hg2600-2	DM2	SAM	+1608981-12	1	9/19/2016 9:19:21	61132-1.RAW	9:19:21 AM	220.73		2		199.3	0.928	0.928	ng/L
Hg2600-2	DM2	SAM	+1608981-13	1	9/19/2016 9:23:29	61133-1.RAW	9:23:29 AM	4248.79		2		4227.4	20.798	20.798	ng/L
Hg2600-2	DM2	SAM	+1608981-14	1	9/19/2016 9:27:38	61134-1.RAW	9:27:38 AM	575.01		2		553.6	2.676	2.676	ng/L
Hg2600-2	DM2	SAM	+1608981-15	1	9/19/2016 9:31:46	61135-1.RAW	9:31:46 AM	467.12		2		445.7	2.143	2.143	ng/L
Hg2600-2	DM2	CAL	SEQ-CCV4	1	9/19/2016 9:35:54	61136-1.RAW	9:35:54 AM	1170.67				1149.3	5.669	5.669	ng/L
Hg2600-2	DM2	CAL	SEQ-CCB4	1	9/19/2016 9:40:03	61137-1.RAW	9:40:03 AM	47.21				25.8	0.127	0.127	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	DM2	SAM	1608981-16	1	9/19/2016 9:44:11	61138-1.RAW	9:44:11 AM	287.60	2		266.2	1.258	1.258	ng/L	
Hg2600-2	DM2	SAM	1608981-17	1	9/19/2016 9:48:20	61139-1.RAW	9:48:20 AM	357.27	2		335.9	1.602	1.602	ng/L	
Hg2600-2	DM2	SAM	1608981-18	1	9/19/2016 9:52:28	61140-1.RAW	9:52:28 AM	270.21	2		248.8	1.172	1.172	ng/L	
Hg2600-2	DM2	SAM	1609078-01	1	9/19/2016 9:56:36	61141-1.RAW	9:56:36 AM	29.13	2		7.7	-0.017	-0.017	ng/L	
Hg2600-2	DM2	SAM	1609195-02	10	9/19/2016 10:00:45	61142-1.RAW	10:00:45 AM	942.85	2		921.4	4.540	45.398	ng/L	
Hg2600-2	DM2	SAM	1609195-04	1	9/19/2016 10:04:53	61143-1.RAW	10:04:53 AM	284.77	2		263.4	1.244	1.244	ng/L	
Hg2600-2	DM2	SAM	1609300-01	1	9/19/2016 10:09:02	61144-1.RAW	10:09:02 AM	21.10	2		-0.3	-0.057	-0.057	ng/L	
Hg2600-2	DM2	SAM	1609390-01	1	9/19/2016 10:13:10	61145-1.RAW	10:13:10 AM	623.08	2		601.7	2.913	2.913	ng/L	
Hg2600-2	DM2	SAM	1609390-02	1	9/19/2016 10:17:19	61146-1.RAW	10:17:19 AM	52.49	2		31.1	0.098	0.098	ng/L	
Hg2600-2	DM2	SAM	1609390-03	1	9/19/2016 10:21:27	61147-1.RAW	10:21:27 AM	867.12	2		845.7	4.117	4.117	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCV5	1	9/19/2016 10:25:35	61148-1.RAW	10:25:35 AM	1153.961892	2		1132.5	5.587	5.587	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCB5	1	9/19/2016 10:29:44	61149-1.RAW	10:29:44 AM	42.36	2		20.9	0.103	0.103	ng/L	
Hg2600-2	DM2	SAM	1609390-04	1	9/19/2016 10:33:52	61150-1.RAW	10:33:52 AM	35.46	2		14.0	0.014	0.014	ng/L	
Hg2600-2	DM2	SAM	1609390-05	10	9/19/2016 10:38:01	61151-1.RAW	10:38:01 AM	1951.06	3		1929.6	9.379	93.794	ng/L	
Hg2600-2	DM2	SAM	1609390-06	1	9/19/2016 10:42:09	61152-1.RAW	10:42:09 AM	47.72	2		26.3	0.075	0.075	ng/L	
Hg2600-2	DM2	SAM	1609422-01	1	9/19/2016 10:46:17	61153-1.RAW	10:46:17 AM	2231.17	2		2209.8	10.845	10.845	ng/L	
Hg2600-2	DM2	SAM	1609423-01	1	9/19/2016 10:50:26	61154-1.RAW	10:50:26 AM	6006.90	2		5985.5	29.471	29.471	ng/L	
Hg2600-2	DM2	SAM	F609427-DUP1	1	9/19/2016 10:54:34	61155-1.RAW	10:54:34 AM	501.00	2		479.6	2.311	2.311	ng/L	
Hg2600-2	DM2	SAM	F609427-MS1	1	9/19/2016 10:58:43	61156-1.RAW	10:58:43 AM	2639.06	2		2617.6	12.857	12.857	ng/L	
Hg2600-2	DM2	SAM	F609427-MSD1	1	9/19/2016 11:02:51	61157-1.RAW	11:02:51 AM	2624.99	2		2603.6	12.788	12.788	ng/L	
Hg2600-2	DM2	SAM	F609427-MS2	1	9/19/2016 11:07:00	61158-1.RAW	11:07:00 AM	1317.12	2		1295.7	6.336	6.336	ng/L	
Hg2600-2	DM2	SAM	F609427-MSD2	1	9/19/2016 11:11:08	61159-1.RAW	11:11:08 AM	1340.10	2		1318.7	6.450	6.450	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCV6	1	9/19/2016 11:15:16	61160-1.RAW	11:15:16 AM	1140.96	2		1119.5	5.523	5.523	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCB6	1	9/19/2016 11:19:25	61161-1.RAW	11:19:25 AM	52.44	2		31.0	0.153	0.153	ng/L	
Hg2600-2	DM2	BLK	F609416-BLK1	20	9/19/2016 11:23:33	61162-1.RAW	11:23:33 AM	40.12	4		18.7	0.092	1.846	ng/L	
Hg2600-2	DM2	BLK	F609416-BLK2	20	9/19/2016 11:27:42	61163-1.RAW	11:27:42 AM	49.39	4		28.0	0.138	2.760	ng/L	
Hg2600-2	DM2	BLK	F609416-BLK3	20	9/19/2016 11:31:50	61164-1.RAW	11:31:50 AM	37.89	4		16.5	0.081	1.625	ng/L	
Hg2600-2	DM2	SAM	F609416-BS1	20	9/19/2016 11:36:00	61165-1.RAW	11:36:00 AM	1107.62	4		1086.2	5.254	105.086	ng/L	
Hg2600-2	DM2	SAM	F609416-BSD1	20	9/19/2016 11:40:08	61166-1.RAW	11:40:08 AM	1099.96	4		1078.5	5.216	104.330	ng/L	
Hg2600-2	DM2	SAM	1608071-05	100	9/19/2016 11:44:16	61167-1.RAW	11:44:16 AM	11097.88	4		11076.5	54.618	5461.831	ng/L	
Hg2600-2	DM2	SAM	1608071-06	100	9/19/2016 11:48:25	61168-1.RAW	11:48:25 AM	1039.84	4		1018.4	5.003	500.304	ng/L	
Hg2600-2	DM2	SAM	1608071-07	100	9/19/2016 11:52:33	61169-1.RAW	11:52:33 AM	838.08	4		816.7	4.008	400.777	ng/L	
Hg2600-2	DM2	SAM	1608071-10	100	9/19/2016 11:56:42	61170-1.RAW	11:56:42 AM	6402.13	4		6380.7	31.455	3145.466	ng/L	
Hg2600-2	DM2	SAM	1608071-11	100	9/19/2016 12:00:50	61171-1.RAW	12:00:50 PM	1822.03	4		1800.6	8.861	886.150	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCV7	1	9/19/2016 12:04:58	61172-1.RAW	12:04:58 PM	1194.77	2		1173.4	5.788	5.788	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCB7	1	9/19/2016 12:09:07	61173-1.RAW	12:09:07 PM	62.16	2		40.7	0.201	0.201	ng/L	
Hg2600-2	DM2	SAM	1608072-01	500	9/19/2016 12:13:15	61174-1.RAW	12:13:15 PM	498.16	4		476.7	2.348	1173.797	ng/L	
Hg2600-2	DM2	SAM	1608072-02	500	9/19/2016 12:17:24	61175-1.RAW	12:17:24 PM	351.17	4		329.8	1.622	811.245	ng/L	
Hg2600-2	DM2	SAM	1608361-05	500	9/19/2016 12:21:32	61176-1.RAW	12:21:32 PM	492.47	4		471.1	2.320	1159.750	ng/L	
Hg2600-2	DM2	SAM	1608361-06	500	9/19/2016 12:25:40	61177-1.RAW	12:25:40 PM	71.29	4		49.9	0.242	120.951	ng/L	
Hg2600-2	DM2	SAM	1608361-07	500	9/19/2016 12:29:49	61178-1.RAW	12:29:49 PM	52.14	4		30.7	0.147	73.712	ng/L	
Hg2600-2	DM2	SAM	1608361-08	500	9/19/2016 12:33:57	61179-1.RAW	12:33:57 PM	227.81	4		206.4	1.014	506.993	ng/L	
Hg2600-2	DM2	SAM	1608361-09	500	9/19/2016 12:38:06	61180-1.RAW	12:38:06 PM	295.52	4		274.1	1.348	674.005	ng/L	
Hg2600-2	DM2	SAM	1608361-10	500	9/19/2016 12:42:14	61181-1.RAW	12:42:14 PM	561.43	4		540.0	2.660	1329.858	ng/L	
Hg2600-2	DM2	SAM	1608361-11	500	9/19/2016 12:46:23	61182-1.RAW	12:46:23 PM	906.76	4		885.3	4.363	2181.587	ng/L	
Hg2600-2	DM2	SAM	1608361-12	500	9/19/2016 12:50:31	61183-1.RAW	12:50:31 PM	1407.56	4		1386.1	6.834	3416.775	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCV8	1	9/19/2016 12:54:39	61184-1.RAW	12:54:39 PM	1090.85	2		1069.4	5.275	5.275	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCB8	1	9/19/2016 12:58:48	61185-1.RAW	12:58:48 PM	49.72	2		28.3	0.140	0.140	ng/L	
Hg2600-2	DM2	SAM	1608361-13	500	9/19/2016 13:02:56	61186-1.RAW	1:02:56 PM	1430.86	4		1409.5	6.949	3474.264	ng/L	
Hg2600-2	DM2	SAM	1608361-14	500	9/19/2016 13:07:05	61187-1.RAW	1:07:05 PM	1414.87	4		1393.5	6.870	3434.814	ng/L	
Hg2600-2	DM2	SAM	1608361-15	500	9/19/2016 13:11:13	61188-1.RAW	1:11:13 PM	5576.68	4		5555.3	27.399	13699.712	ng/L	
Hg2600-2	DM2	SAM	1608361-16	500	9/19/2016 13:15:21	61189-1.RAW	1:15:21 PM	876.26	4		854.8	4.213	2106.350	ng/L	
Hg2600-2	DM2	SAM	1608361-17	500	9/19/2016 13:19:30	61190-1.RAW	1:19:30 PM	854.08	4		832.7	4.103	2051.648	ng/L	
Hg2600-2	DM2	SAM	F609416-DUP1	100	9/19/2016 13:23:38	61191-1.RAW	1:23:38 PM	976.88	4		955.5	4.692	469.243	ng/L	
Hg2600-2	DM2	SAM	F609416-MS1	500	9/19/2016 13:27:47	61192-1.RAW	1:27:47 PM	2366.53	4		2345.1	11.564	5782.025	ng/L	
Hg2600-2	DM2	SAM	F609416-MSD1	500	9/19/2016 13:31:55	61193-1.RAW	1:31:55 PM	2351.31	4		2329.9	11.489	5744.502	ng/L	
Hg2600-2	DM2	SAM	F609416-MS2	500	9/19/2016 13:36:04	61194-1.RAW	1:36:04 PM	2415.60	4		2394.2	11.806	5903.054	ng/L	
Hg2600-2	DM2	SAM	F609416-MSD2	500	9/19/2016 13:40:12	61195-1.RAW	1:40:12 PM	2547.71	4		2526.3	12.458	6228.908	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCV9	1	9/19/2016 13:44:20	61196-1.RAW	1:44:20 PM	1207.93	2		1186.5	5.853	5.853	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCB9	1	9/19/2016 13:48:29	61197-1.RAW	1:48:29 PM	53.15	2		31.7	0.157	0.157	ng/L	
Hg2600-2	DM2	SAM	1608071-05RE1	500	9/19/2016 13:52:37	61198-1.RAW	1:52:37 PM	2268.56	4		2247.1	11.081	5540.400	ng/L	
Hg2600-2	DM2	SAM	1608071-06RE1	100	9/19/2016 13:56:46	61199-1.RAW	1:56:46 PM	955.01	4		933.6	4.585	458.457	ng/L	
Hg2600-2	DM2	SAM	1608361-06RE1	20	9/19/2016 14:00:54	61200-1.RAW	2:00:54 PM	1161.60	4		1140.2	5.521	110.412	ng/L	
Hg2600-2	DM2	SAM	1608361-07RE1	20	9/19/2016 14:05:03	61201-1.RAW	2:05:03 PM	543.05	4		521.6	2.469	49.386	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCVA	1	9/19/2016 14:09:11	61202-1.RAW	2:09:11 PM	1153.62	4		1132.2	5.585	5.585	ng/L	

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Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-2	DM2	CAL	SEQ-CCBA	1	9/19/2016 14:13:19	61203-1.RAW	2:13:19 PM	39.55			18.1	0.089	0.089	ng/L	
Hg2600-2	DM2	SAM	SNCL 1605421	1	9/19/2016 14:17:28	61204-1.RAW	2:17:28 PM	35.26			13.8	Error	#VALUE!	ng/L	
Hg2600-2	DM2	SAM	CLEAN		9/19/2016 14:20:19	61205-1.RAW	2:20:19 PM	14.45		X	-7.0	-0.034	0.000	ng/L	
Hg2600-2	DM2	SAM	WS		9/19/2016 14:24:28	61206-1.RAW	2:24:28 PM	38.92		X	17.5	0.086	0.000	ng/L	
Hg2600-2	DM2	SAM	WS		9/19/2016 14:28:36	61207-1.RAW	2:28:36 PM	27.00		X	5.6	0.028	0.000	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCVB	1	9/19/2016 14:32:44	61208-1.RAW	2:32:44 PM	1052.70			1031.3	5.087	5.087	ng/L	
Hg2600-2	DM2	CAL	SEQ-CCBB	1	9/19/2016 14:36:53	61209-1.RAW	2:36:53 PM	57.40			36.0	0.178	0.178	ng/L	

TotalMercury Operatr DM BlankSi 21.413 Calib Eqn: Conc = (Area-21.41 Run Date: 9/19/2016 Blank SD: 3.419088303
 EPA1631 Worksh THg260(CalibFa 202.72 Status: QC Warnings:14/QC Run Time: 5:25:53 Blank RSD%: 15.96714572
 Method #### R: 0.9999 R²: 0.9999 CF SD: 12.78152002
 Descrip THg26002-160919-1 CF RSD%: 6.304994588

Sample/ID	Location	Rinse	Dilute	Blank	Conc.(ppt)	MB%	FinalConc	Rec%	QA	RawData	RunEnd	Peak (Raw)	Control (eif)	Flags	RunCount
Clean				0.00	6.24					61076-1.RAW	5:28:45	1264.16	Clean	FB	1
clean				0.00	0.05					61077-1.RAW	5:31:36	9.47	Clean	FB	1
ws				21.41	0.14					61078-1.RAW	5:35:45	50.71	Sample	FB	1
ws				21.41	0.05					61079-1.RAW	5:39:53	31.60	Sample	FB	1
ws				21.41	0.03					61080-1.RAW	5:44:01	27.99	Sample	OK	1
SEQ-IBL1	A1		1	0.00	0.11					61081-1.RAW	5:48:10	21.94	Sample	FB	1
SEQ-IBL2	A2		1	0.00	0.09					61082-1.RAW	5:52:18	17.76	Sample	FB	1
SEQ-IBL3	A3		1	0.00	0.12					61083-1.RAW	5:56:27	24.54	Sample	FB	1
SEQ-CAL1	A4		1	21.41	0.46			91.78		61084-1.RAW	6:00:35	114.45	Sample	FB	1
SEQ-CAL2	A5		1	21.41	0.96			95.51		61085-1.RAW	6:04:44	215.04	Sample	OK	1
SEQ-CAL3	A6		1	21.41	5.37			107.47		61086-1.RAW	6:08:52	1110.72	Sample	FB	1
SEQ-CAL4	A7		1	21.41	20.72			103.59		61087-1.RAW	6:13:01	4221.52	Sample	FB	1
SEQ-CAL5	A8		1	21.41	40.66			101.64		61088-1.RAW	6:17:10	8263.15	Sample	OK	1
SEQ-ICV1	A9		1	21.41	5.70			113.96		61089-1.RAW	6:21:18	1176.55	Sample	FB	1
F609420-BLK1	A10		1	21.41	0.17					61090-1.RAW	6:25:27	56.78	Sample	FB	1
F609420-BLK2	A11		1	21.41	0.07					61091-1.RAW	6:29:35	36.05	Sample	FB	1
F609420-BLK3	A12		1	21.41	0.07					61092-1.RAW	6:33:44	34.91	Sample	FB	1
F609420-BS1	A13		1	21.41	16.42					61093-1.RAW	6:37:52	3349.36	Sample	OK	1
F609420-BSD1	A14		1	21.41	16.58					61094-1.RAW	6:42:01	3383.46	Sample	FB	1
1608742-01	A15		1	21.41	1.10					61095-1.RAW	6:46:09	243.69	Sample	OK	1
1608742-02	A16		1	21.41	0.27					61096-1.RAW	6:50:18	76.87	Sample	FB	1
1608742-03	A17		1	21.41	0.79					61097-1.RAW	6:54:26	180.71	Sample	FB	1
1608742-04	A18		1	21.41	0.60					61098-1.RAW	6:58:34	143.43	Sample	FB	1
1608742-05	A19		1	21.41	1.10					61099-1.RAW	7:02:43	244.52	Sample	FB	1
SEQ-CCV1	A20		1	21.41	5.49			109.82		61100-1.RAW	7:06:51	1134.52	Sample	FB	1
SEQ-CCB1	A21		1	21.41	0.11			0.00		61101-1.RAW	7:11:00	44.15	Sample	FB	1
1608742-06	B1		1	21.41	0.31					61102-1.RAW	7:15:08	83.35	Sample	FB	1
1608742-07	B2		1	21.41	1.63					61103-1.RAW	7:19:17	352.56	Sample	FB	1
1608742-08	B3		1	21.41	0.08					61104-1.RAW	7:23:25	38.44	Sample	FB	1
1608742-10	B4		1	21.41	0.06					61105-1.RAW	7:27:34	34.13	Sample	FB	1
1608981-01	B5		1	21.41	0.05					61106-1.RAW	7:31:42	30.87	Sample	FB	1
1608981-02	B6		1	21.41	0.07					61107-1.RAW	7:35:50	34.82	Sample	OK	1
1608981-03	B7		1	21.41	7.86					61108-1.RAW	7:39:59	1614.44	Sample	OK	1
1608981-04	B8		1	21.41	1.32					61109-1.RAW	7:44:07	289.97	Sample	OK	1
1608981-05	B9		1	21.41	3.79					61110-1.RAW	7:48:16	789.04	Sample	FB	1
1608981-06	B10		1	21.41	1.19					61111-1.RAW	7:52:24	263.25	Sample	FB	1
SEQ-CCV2	B11		1	21.41	5.29			105.76		61112-1.RAW	7:56:33	1093.42	Sample	FB	1
SEQ-CCB2	B12		1	21.41	0.06			0.00		61113-1.RAW	8:00:41	33.38	Sample	FB	1
1608981-07	B13		1	21.41	6.04					61114-1.RAW	8:04:50	1245.86	Sample	FB	1
1608981-08	B14		1	21.41	0.69					61115-1.RAW	8:08:58	161.87	Sample	FB	1
1608981-09	B15		1	21.41	1.96					61116-1.RAW	8:13:06	418.22	Sample	OK	1
1608981-10	B16		1	21.41	0.60					61117-1.RAW	8:17:15	142.50	Sample	FB	1
1608981-11	B17		1	21.41	9.15					61118-1.RAW	8:21:23	1876.51	Sample	FB	1

F609420-DUP1	B18	1	21.41	0.96		61119-1.RAW	8:25:32	215.90	Sample	FB	1
F609420-MS1	B19	1	21.41	6.10	311.48	61120-1.RAW	8:29:40	1258.64	Sample	OK	1
F609420-MSD1	B20	1	21.41	6.29		61121-1.RAW	8:33:49	1295.87	Sample	FB	1
F609420-MS2	B21	1	21.41	28.92	348.95	61122-1.RAW	8:37:57	5883.37	Sample	OK	1
F609420-MSD2	C1	1	21.41	29.29		61123-1.RAW	8:42:06	5959.42	Sample	OK	1
SEQ-CCV3	C2	1	21.41	5.91	118.14	61124-1.RAW	8:46:14	1218.88	Sample	FB	1
SEQ-CCB3	C3	1	21.41	0.22	0.00	61125-1.RAW	8:50:22	65.48	Sample	FB	1
F609427-BLK1	C4	1	21.41	0.08		61126-1.RAW	8:54:32	36.95	Sample	FB	1
F609427-BLK2	C5	1	21.41	0.07		61127-1.RAW	8:58:40	35.28	Sample	FB	1
F609427-BLK3	C6	1	21.41	0.02		61128-1.RAW	9:02:49	25.59	Sample	FB	1
F609427-BLK4	C7	10	21.41	1.39		61129-1.RAW	9:06:56	49.67	Sample	FB	1
F609427-BS1	C8	1	21.41	15.66		61130-1.RAW	9:11:04	3195.68	Sample	FB	1
F609427-BSD1	C9	1	21.41	16.77		61131-1.RAW	9:15:12	3420.18	Sample	FB	1
1608981-12	C10	1	21.41	0.98		61132-1.RAW	9:19:21	220.73	Sample	FB	1
1608981-13	C11	1	21.41	20.85		61133-1.RAW	9:23:29	4248.79	Sample	FB	1
1608981-14	C12	1	21.41	2.73		61134-1.RAW	9:27:38	575.01	Sample	OK	1
1608981-15	C13	1	21.41	2.20		61135-1.RAW	9:31:46	467.12	Sample	FB	1
SEQ-CCV4	C14	1	21.41	5.67	113.38	61136-1.RAW	9:35:54	1170.67	Sample	FB	1
SEQ-CCB4	C15	1	21.41	0.13	0.00	61137-1.RAW	9:40:03	47.21	Sample	FB	1
1608981-16	C16	1	21.41	1.31		61138-1.RAW	9:44:11	287.60	Sample	FB	1
1608981-17	C17	1	21.41	1.66		61139-1.RAW	9:48:20	357.27	Sample	FB	1
1608981-18	C18	1	21.41	1.23		61140-1.RAW	9:52:28	270.21	Sample	FB	1
1609078-01	C19	1	21.41	0.04		61141-1.RAW	9:56:36	29.13	Sample	OK	1
1609195-02	C20	10	21.41	45.45		61142-1.RAW	10:00:45	942.85	Sample	FB	1
1609195-04	C21	1	21.41	1.30		61143-1.RAW	10:04:53	284.77	Sample	FB	1
1609300-01	A1	1	21.41	0.00		61144-1.RAW	10:09:02	21.10	Sample	FB	1
1609390-01	A2	1	21.41	2.97		61145-1.RAW	10:13:10	623.08	Sample	FB	1
1609390-02	A3	1	21.41	0.15		61146-1.RAW	10:17:19	52.49	Sample	FB	1
1609390-03	A4	1	21.41	4.17		61147-1.RAW	10:21:27	867.12	Sample	FB	1
SEQ-CCV5	A5	1	21.41	5.59	111.73	61148-1.RAW	10:25:35	1153.96	Sample	FB	1
SEQ-CCB5	A6	1	21.41	0.10	0.00	61149-1.RAW	10:29:44	42.36	Sample	FB	1
1609390-04	A7	1	21.41	0.07		61150-1.RAW	10:33:52	35.46	Sample	FB	1
1609390-05	A8	10	21.41	95.19		61151-1.RAW	10:38:01	1951.06	Sample	OK	1
1609390-06	A9	1	21.41	0.13		61152-1.RAW	10:42:09	47.72	Sample	FB	1
1609422-01	A10	1	21.41	10.90		61153-1.RAW	10:46:17	2231.17	Sample	FB	1
1609423-01	A11	1	21.41	29.53		61154-1.RAW	10:50:26	6006.90	Sample	FB	1
F609427-DUP1	A12	1	21.41	2.37		61155-1.RAW	10:54:34	501.00	Sample	FB	1
F609427-MS1	A13	1	21.41	12.91	383.65	61156-1.RAW	10:58:43	2639.06	Sample	FB	1
F609427-MSD1	A14	1	21.41	12.84		61157-1.RAW	11:02:51	2624.99	Sample	FB	1
F609427-MS2	A15	1	21.41	6.39	43.06	61158-1.RAW	11:07:00	1317.12	Sample	FB	1
F609427-MSD2	A16	1	21.41	6.50		61159-1.RAW	11:11:08	1340.10	Sample	FB	1
SEQ-CCV6	A17	1	21.41	5.52	110.45	61160-1.RAW	11:15:16	1140.96	Sample	FB	1
SEQ-CCB6	A18	1	21.41	0.15	0.00	61161-1.RAW	11:19:25	52.44	Sample	FB	1
F609416-BLK1	A19	20	21.41	1.85		61162-1.RAW	11:23:33	40.12	Sample	FB	1
F609416-BLK2	A20	20	21.41	2.76		61163-1.RAW	11:27:42	49.39	Sample	OK	1
F609416-BLK3	A21	20	21.41	1.63		61164-1.RAW	11:31:50	37.89	Sample	FB	1
F609416-BS1	B1	20	21.41	107.16		61165-1.RAW	11:36:00	1107.62	Sample	FB	1
F609416-BSD1	B2	20	21.41	106.41		61166-1.RAW	11:40:08	1099.96	Sample	FB	1

1608071-05	B3	100	21.41	5463.91		61167-1.RAW	11:44:16	11097.88	Sample	FB	1
1608071-06	B4	100	21.41	502.38		61168-1.RAW	11:48:25	1039.84	Sample	FB	1
1608071-07	B5	100	21.41	402.85		61169-1.RAW	11:52:33	838.08	Sample	FB	1
1608071-10	B6	100	21.41	3147.54		61170-1.RAW	11:56:42	6402.13	Sample	FB	1
1608071-11	B7	100	21.41	888.23		61171-1.RAW	12:00:50	1822.03	Sample	FB	1
SEQ-CCV7	B8	1	21.41	5.79	115.76	61172-1.RAW	12:04:58	1194.77	Sample	FB	1
SEQ-CCB7	B9	1	21.41	0.20	0.00	61173-1.RAW	12:09:07	62.16	Sample	FB	1
1608072-01	B10	500	21.41	1175.87		61174-1.RAW	12:13:15	498.16	Sample	FB	1
1608072-02	B11	500	21.41	813.32		61175-1.RAW	12:17:24	351.17	Sample	OK	1
1608361-05	B12	500	21.41	1161.83		61176-1.RAW	12:21:32	492.47	Sample	FB	1
1608361-06	B13	500	21.41	123.03		61177-1.RAW	12:25:40	71.29	Sample	FB	1
1608361-07	B14	500	21.41	75.79		61178-1.RAW	12:29:49	52.14	Sample	FB	1
1608361-08	B15	500	21.41	509.07		61179-1.RAW	12:33:57	227.81	Sample	FB	1
1608361-09	B16	500	21.41	676.08		61180-1.RAW	12:38:06	295.52	Sample	FB	1
1608361-10	B17	500	21.41	1331.93		61181-1.RAW	12:42:14	561.43	Sample	FB	1
1608361-11	B18	500	21.41	2183.66		61182-1.RAW	12:46:23	906.76	Sample	FB	1
1608361-12	B19	500	21.41	3418.85		61183-1.RAW	12:50:31	1407.56	Sample	FB	1
SEQ-CCV8	B20	1	21.41	5.28	105.51	61184-1.RAW	12:54:39	1090.85	Sample	FB	1
SEQ-CCB8	B21	1	21.41	0.14	0.00	61185-1.RAW	12:58:48	49.72	Sample	FB	1
1608361-13	C1	500	21.41	3476.34		61186-1.RAW	13:02:56	1430.86	Sample	OK	1
1608361-14	C2	500	21.41	3436.89		61187-1.RAW	13:07:05	1414.87	Sample	OK	1
1608361-15	C3	500	21.41	13701.79		61188-1.RAW	13:11:13	5576.68	Sample	FB	1
1608361-16	C4	500	21.41	2108.43		61189-1.RAW	13:15:21	876.26	Sample	FB	1
1608361-17	C5	500	21.41	2053.73		61190-1.RAW	13:19:30	854.08	Sample	OK	1
F609416-DUP1	C6	100	21.41	471.32		61191-1.RAW	13:23:38	976.88	Sample	FB	1
F609416-MS1	C7	500	21.41	5784.10	1224.62	61192-1.RAW	13:27:47	2366.53	Sample	FB	1
F609416-MSD1	C8	500	21.41	5746.58		61193-1.RAW	13:31:55	2351.31	Sample	FB	1
F609416-MS2	C9	500	21.41	5905.13	102.72	61194-1.RAW	13:36:04	2415.60	Sample	FB	1
F609416-MSD2	C10	500	21.41	6230.99		61195-1.RAW	13:40:12	2547.71	Sample	FB	1
SEQ-CCV9	C11	1	21.41	5.85	117.06	61196-1.RAW	13:44:20	1207.93	Sample	FB	1
SEQ-CCB9	C12	1	21.41	0.16	0.00	61197-1.RAW	13:48:29	53.15	Sample	OK	1
1608071-05RE1	C13	500	21.41	5542.48		61198-1.RAW	13:52:37	2268.56	Sample	FB	1
1608071-06RE1	C14	100	21.41	460.53		61199-1.RAW	13:56:46	955.01	Sample	FB	1
1608361-06RE1	C15	20	21.41	112.49		61200-1.RAW	14:00:54	1161.60	Sample	FB	1
1608361-07RE1	C16	20	21.41	51.46		61201-1.RAW	14:05:03	543.05	Sample	FB	1
SEQ-CCVA	C17	1	21.41	5.59		61202-1.RAW	14:09:11	1153.62	Sample	FB	1
SEQ-CCBA	C18	1	21.41	0.09		61203-1.RAW	14:13:19	39.55	Sample	FB	1
SNCL 1605421	C19	1	21.41	0.07		61204-1.RAW	14:17:28	35.26	Sample	FB	1
CLEAN			0.00	0.07		61205-1.RAW	14:20:19	14.45	Clean	OK	1
WS			21.41	0.09		61206-1.RAW	14:24:28	38.92	Sample	FB	1
WS			21.41	0.03		61207-1.RAW	14:28:36	27.00	Sample	FB	1
SEQ-CCVB	C20	1	21.41	5.09		61208-1.RAW	14:32:44	1052.70	Sample	FB	1
SEQ-CCBB	C21	1	21.41	0.18		61209-1.RAW	14:36:53	57.40	Sample	FB	1

Failing Data Report - 6I20007

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 Moran
Analyst Reviewed By

9/20/16
Date

P
Peer Reviewed By

9-20-16
Date

Failing Data Report - 6120016

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
1608071-05	Hg-CVAFS-S-AR	1080	12.3				ng/g						FAIL-OVER	PASS	E

Don Mason
Analyst Reviewed By

9/20/16
Date

[Signature]
Peer Reviewed By

9-20-16
Date

ANALYSIS SEQUENCE

6I20007

Instrument: Hg2600-2

Calibration ID: UNASSIGNED

Analyzed: 9/19/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6I20007-IBL1	QC	1			
6I20007-IBL2	QC	2			
6I20007-IBL3	QC	3			
6I20007-CAL1	QC	4	1605412		
6I20007-CAL2	QC	5	1605413		
6I20007-CAL3	QC	6	1605414		
6I20007-CAL4	QC	7	1605415		
6I20007-CAL5	QC	8	1605416		
6I20007-ICV1	QC	9	1603625		
F609420-BLK1	QC	10			
F609420-BLK2	QC	11			
F609420-BLK3	QC	12			
F609420-BS1	QC	13			
F609420-BSD1	QC	14			
1608742-01	Hg-CVAFS-W-1631	15			Scan all data for level IV report
1608742-02	Hg-CVAFS-W-1631	16			Scan all data for level IV report
1608742-03	Hg-CVAFS-W-1631	17			Scan all data for level IV report
1608742-04	Hg-CVAFS-W-1631	18			Scan all data for level IV report
1608742-05	Hg-CVAFS-W-1631	19			Scan all data for level IV report
6I20007-CCV1	QC	20	1603625		
6I20007-CCB1	QC	21			
1608742-06	Hg-CVAFS-W-1631	22			Scan all data for level IV report
1608742-07	Hg-CVAFS-W-1631	23			Scan all data for level IV report
1608742-08	Hg-CVAFS-W-1631	24			Scan all data for level IV report
1608742-10	Hg-CVAFS-W-1631	25			Scan all data for level IV report
1608981-01	Hg-CVAFS-W-1631	26			Scan all data - Level IV
1608981-02	Hg-CVAFS-W-1631	27			Scan all data - Level IV
1608981-03	Hg-CVAFS-W-1631	28			Scan all data - Level IV
1608981-04	Hg-CVAFS-W-1631	29			Scan all data - Level IV
1608981-05	Hg-CVAFS-W-1631	30			Scan all data - Level IV
1608981-06	Hg-CVAFS-W-1631	31			Scan all data - Level IV
6I20007-CCV2	QC	32	1603625		
6I20007-CCB2	QC	33			
1608981-07	Hg-CVAFS-W-1631	34			Scan all data - Level IV
1608981-08	Hg-CVAFS-W-1631	35			Scan all data - Level IV

Due Date: 9/19/2016

ANALYSIS SEQUENCE

6I20007

Instrument: Hg2600-2

Calibration ID: UNASSIGNED

Analyzed: 9/19/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1608981-09	Hg-CVAFS-W-1631	36			Scan all data - Level IV
1608981-10	Hg-CVAFS-W-1631	37			Scan all data - Level IV
1608981-11	Hg-CVAFS-W-1631	38			Scan all data - Level IV
F609420-DUP1	QC	39			
F609420-MS1	QC	40			
F609420-MSD1	QC	41			
F609420-MS2	QC	42			
F609420-MSD2	QC	43			
6I20007-CCV3	QC	44	1603625		
6I20007-CCB3	QC	45			
F609427-BLK1	QC	46			
F609427-BLK2	QC	47			
F609427-BLK3	QC	48			
F609427-BLK4	QC	49			
F609427-BS1	QC	50			
F609427-BSD1	QC	51			
1608981-12	Hg-CVAFS-W-1631	52			Scan all data - Level IV
1608981-13	Hg-CVAFS-W-1631	53			Scan all data - Level IV
1608981-14	Hg-CVAFS-W-1631	54			Scan all data - Level IV
1608981-15	Hg-CVAFS-W-1631	55			Scan all data - Level IV
6I20007-CCV4	QC	56	1603625		
6I20007-CCB4	QC	57			
1608981-16	Hg-CVAFS-W-1631	58			Scan all data - Level IV
1608981-17	Hg-CVAFS-W-1631	59			Scan all data - Level IV
1608981-18	Hg-CVAFS-W-1631	60			Scan all data - Level IV
1609078-01	Hg-CVAFS-W-1631	61			Do not oven samples (CCV 90-110%, CCB <), <1/2 PQL
1609195-02	Hg-CVAFS-W-1631	62			give data to PM for scanning
1609195-04	Hg-CVAFS-W-1631	63			give data to PM for scanning
1609300-01	Hg-CVAFS-W-1631	64			
1609390-01	Hg-CVAFS-W-1631	65			
1609390-02	Hg-CVAFS-W-1631	66			
1609390-03	Hg-CVAFS-W-1631	67			
6I20007-CCV5	QC	68	1603625		
6I20007-CCB5	QC	69			
1609390-04	Hg-CVAFS-W-1631	70			

Due Date: 9/19/2016

ANALYSIS SEQUENCE

6120007

Instrument: Hg2600-2

Calibration ID: UNASSIGNED

Analyzed: 9/19/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1609390-05	Hg-CVAFS-W-1631	71			
1609390-06	Hg-CVAFS-W-1631	72			
1609422-01	Hg-CVAFS-W-1631	73			
1609423-01	Hg-CVAFS-W-1631	74			
F609427-DUP1	QC	75			
F609427-MS1	QC	76			
F609427-MSD1	QC	77			
F609427-MS2	QC	78			
F609427-MSD2	QC	79			
6120007-CCV6	QC	80	1603625		
6120007-CCB6	QC	81			
6120007-CCV7	QC	82	1603625		
6120007-CCB7	QC	83			
6120007-CCV8	QC	84	1603625		
6120007-CCB8	QC	85			
6120007-CCV9	QC	86	1603625		
6120007-CCB9	QC	87			
6120007-CCVA	QC	88	1603625		
6120007-CCBA	QC	89			
6120007-CCVB	QC	90	1603625		
6120007-CCBB	QC	91			

Don Moxem 9/19/16
 Samples Loaded By Date

Don Moxem 9/20/16
 Data Processed By Date

Due Date: 9/19/2016

ANALYSIS SEQUENCE

6120016

Instrument: Hg2600-2

Calibration ID: UNASSIGNED

Analyzed: 9/19/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6120016-IBL1	QC	1			
6120016-IBL2	QC	2			
6120016-IBL3	QC	3			
6120016-CAL1	QC	4	1603274		
6120016-CAL2	QC	5	1603275		
6120016-CAL3	QC	6	1603276		
6120016-CAL4	QC	7	1603277		
6120016-CAL5	QC	8	1603278		
6120016-ICV1	QC	9	1603625		
6120016-CCV1	QC	10	1603625		
6120016-CCB1	QC	11			
6120016-CCV2	QC	12	1603625		
6120016-CCB2	QC	13			
6120016-CCV3	QC	14	1603625		
6120016-CCB3	QC	15			
6120016-CCV4	QC	16	1603625		
6120016-CCB4	QC	17			
6120016-CCV5	QC	18	1603625		
6120016-CCB5	QC	19			
6120016-CCV6	QC	20	1603625		
6120016-CCB6	QC	21			
F609416-BLK1	QC	22			
F609416-BLK2	QC	23			
F609416-BLK3	QC	24			
F609416-BS1	QC	25			
F609416-BSD1	QC	26			
1608071-05	Hg-CVAFS-S-AR	27			
1608071-06	Hg-CVAFS-S-AR	28			
1608071-07	Hg-CVAFS-S-AR	29			
1608071-10	Hg-CVAFS-S-AR	30			
1608071-11	Hg-CVAFS-S-AR	31			
6120016-CCV7	QC	32	1603625		
6120016-CCB7	QC	33			
1608072-01	Hg-CVAFS-S-AR	34			
1608072-02	Hg-CVAFS-S-AR	35			

Due Date: 9/8/2016

ANALYSIS SEQUENCE

6120016

Instrument: Hg2600-2

Calibration ID: UNASSIGNED

Analyzed: 9/19/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1608361-05	Hg-CVAFS-S-AR	36			
1608361-06	Hg-CVAFS-S-AR	37			
1608361-07	Hg-CVAFS-S-AR	38			
1608361-08	Hg-CVAFS-S-AR	39			
1608361-09	Hg-CVAFS-S-AR	40			
1608361-10	Hg-CVAFS-S-AR	41			
1608361-11	Hg-CVAFS-S-AR	42			
1608361-12	Hg-CVAFS-S-AR	43			
6120016-CCV8	QC	44	1603625		
6120016-CCB8	QC	45			
1608361-13	Hg-CVAFS-S-AR	46			
1608361-14	Hg-CVAFS-S-AR	47			
1608361-15	Hg-CVAFS-S-AR	48			
1608361-16	Hg-CVAFS-S-AR	49			
1608361-17	Hg-CVAFS-S-AR	50			
F609416-DUP1	QC	51			
F609416-MS1	QC	52			
F609416-MSD1	QC	53			
F609416-MS2	QC	54			
F609416-MSD2	QC	55			
6120016-CCV9	QC	56	1603625		
6120016-CCB9	QC	57			
1608071-05RE1	Hg-CVAFS-S-AR	58			Added 9/20/2016 by DM2
1608071-06RE1	Hg-CVAFS-S-AR	59			Added 9/20/2016 by DM2
1608361-06RE1	Hg-CVAFS-S-AR	60			Added 9/20/2016 by DM2
1608361-07RE1	Hg-CVAFS-S-AR	61			Added 9/20/2016 by DM2
6120016-CCVA	QC	62	1603625		
6120016-CCBA	QC	63			
6120016-CCVB	QC	64	1603625		
6120016-CCBB	QC	65			

Don Moran
Samples Loaded By

9/19/16
Date

Don Moran
Data Processed By

9/20/16
Date

Due Date: 9/8/2016

PREPARATION BENCH SHEET

F609420

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/19/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609420-BLK1	Blank	100	101					
F609420-BLK2	Blank	100	101					
F609420-BLK3	Blank	100	101					
F609420-BS1	LCS	50	50.5	1604715	100			
F609420-BSD1	LCS Dup	50	50.5	1604715	100			
F609420-DUP1	Duplicate [1608742-01]	100	101					
F609420-MS1	Matrix Spike [1608742-05]	49.50495	50	1605272	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F609420-MS2	Matrix Spike [1608981-03]	49.50495	50	1605272	100			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F609420-MSD1	Matrix Spike Dup [1608742-05]	49.50495	50	1605272	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F609420-MSD2	Matrix Spike Dup [1608981-03]	49.50495	50	1605272	100			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL

<u>Standard ID(s):</u>	<u>Description:</u>
1604715	Nist 1641D 200X
1605272	THg 10ng/mL Calibration Standard

<u>Expiration:</u>
18-Aug-17 00:00
10-Dec-16 00:00
10-Dec-16 00:00

<u>Reagent ID(s):</u>	<u>Description:</u>
1602941	25% Hydroxylamine-HCl working solution
1604595	0.2 N BRCLAUGUST 2016
1605112	THg Dilute 1% BrCl
1605113	THg Washstation (0.5% BrCl)
1605348	3% SnCl2 THg reductant

<u>Expiration:</u>
03-Dec-16 00:00
09-Feb-17 00:00
11-Jan-17 00:00
03-Dec-16 00:00
09-Mar-17 00:00

PREPARATION BENCH SHEET

F609420

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/19/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608742-01	OL-2453-01	100	101	-	-	-	Scan all data for level IV report	
1608742-02	OL-2453-01 Dissolved	100	101	-	-	-	Scan all data for level IV report	
1608742-03	OL-2453-02	100	101	-	-	-	Scan all data for level IV report	
1608742-04	OL-2453-03	100	101	-	-	-	Scan all data for level IV report	
1608742-05	OL-2453-04	100	101	-	-	-	Scan all data for level IV report	
1608742-06	OL-2453-04 Dissolved	100	101	-	-	-	Scan all data for level IV report	
1608742-07	OL-2453-05	100	101	-	-	-	Scan all data for level IV report	
1608742-08	OL-2453-06	100	101	-	-	-	Scan all data for level IV report	
1608742-10	Laboratory Filter Blank	100	101	-	-	-	Scan all data for level IV report	
1608981-01	EB_083016_SW_QC	100	101	-	-	-	Scan all data - Level IV	
1608981-02	EB_083016_SW_QC Dissolved	100	101	-	-	-	Scan all data - Level IV	
1608981-03	WQ_1b-c_083016_SW_10	100	101	-	-	-	Scan all data - Level IV	
1608981-04	WQ_1b-c_083016_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	
1608981-05	WQ-2-C_083016_SW_10	100	101	-	-	-	Scan all data - Level IV	
1608981-06	WQ-2-C_083016_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	
1608981-07	WQ-3-L_083016_SW_10	100	101	-	-	-	Scan all data - Level IV	
981-08	WQ-3-L_083016_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	
981-09	WQ_FPT_083016_SW_10	100	101	-	-	-	Scan all data - Level IV	
981-10	WQ_FPT_083016_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	

PREPARATION BENCH SHEET

F609420

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/19/2016

1608981-11	WQ-ECH_082916_SW_10	100	101	-	-	-	Scan all data - Level IV	
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PREPARATION BENCH SHEET

F609427

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/19/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609427-BLK1	Blank	100	101					
F609427-BLK2	Blank	100	101					
F609427-BLK3	Blank	100	101					
F609427-BLK4	Blank	25	50					
F609427-BS1	LCS	50	50.5	1604715	100			
F609427-BSD1	LCS Dup	50	50.5	1604715	100			
F609427-DUP1	Duplicate [1608981-15]	100	101					
F609427-MS1	Matrix Spike [1608981-15]	49.50495	50	1605272	50			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F609427-MS2	Matrix Spike [1608981-16]	49.50495	50	1605272	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F609427-MSD1	Matrix Spike Dup [1608981-15]	49.50495	50	1605272	50			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F609427-MSD2	Matrix Spike Dup [1608981-16]	49.50495	50	1605272	25			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1604715	Nist 1641D 200X	18-Aug-17 00:00	1602941	25% Hydroxylamine-HCl working solution	03-Dec-16 00:00
1605272	THg 10ng/mL Calibration Standard	10-Dec-16 00:00	1604595	0.2 N BRCL AUGUST 2016	09-Feb-17 00:00
		10-Dec-16 00:00	1605112	THg Dilute 1% BrCl	11-Jan-17 00:00
			1605113	THg Washstation (0.5% BrCl)	03-Dec-16 00:00
			1605348	3% SnCl2 THg reductant	09-Mar-17 00:00

PREPARATION BENCH SHEET

F609427

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/19/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608981-12	WQ-ECH_082916_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	
1608981-13	ES-15_082916_SW_10	100	101	-	-	-	Scan all data - Level IV	
1608981-14	ES-15_082916_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	
1608981-15	OV02_082916_SW_10	100	101	QC	-	-	MS/MSD Scan all data - Level IV	
1608981-16	OV02_082916_SW_10 Dissolved	100	101	QC	-	-	MS/MSD Scan all data - Level IV	
1608981-17	OV02_082916_SW_10_DUP	100	101	-	-	-	Scan all data - Level IV	
1608981-18	OV02_082916_SW_10_DUP Dissolved	100	101	-	-	-	Scan all data - Level IV	
1609078-01	September 2016 Monthly Water ICPMS Sink 1	100	101	-	-	-	Do not oven samples (CCV 90-110%, t	
1609195-02	B-160424 PLANT INFLUENT #16-14030	100	101	-	-	Scan Dat	give data to PM for scanning	
1609195-04	B-160397 PLANT EFFLUENT #16-14032	100	101	-	-	Scan Dat	give data to PM for scanning	
1609300-01	Rinse Blank 9/13/16	100	101	-	-	-	Rinse blank for tubing sent to AMEC F	
1609390-01	Lagoons	100	101	-	-	-		
1609390-02	Lagoons Field Blank	100	101	-	-	-		
1609390-03	Clarifier	100	101	-	-	-		
1609390-04	Clarifier Field Blank	100	101	-	-	-		
1609390-05	A149	25	50	-	-	-		
1609390-06	A149 Blank	100	101	-	-	-		
422-01	802W-090816-01H	100	101	-	-	-		
423-01	802W-091216-01H	100	101	-	-	-		

PREPARATION BENCH SHEET

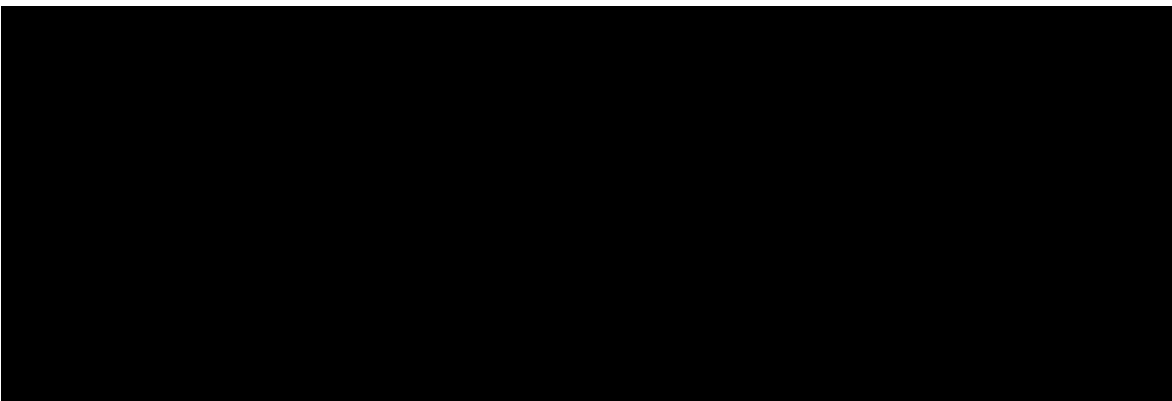
F609427

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/19/2016



PREPARATION BENCH SHEET

F609416

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-066 Cold Aqua Regia Digestion for Hg

Prepared: 9/16/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609416-BLK1	Blank	0.5	40					
F609416-BLK2	Blank	0.5	40					
F609416-BLK3	Blank	0.5	40					
F609416-BS1	Blank Spike	0.5	40	1605270	40			
F609416-BSD1	Blank Spike Dup	0.5	40	1605270	40			
F609416-DUP1	Duplicate [1608071-06RE1]	0.527	40					
F609416-MS1	Matrix Spike [1608071-06RE1]	0.539	40	1601846	200			
F609416-MS2	Matrix Spike [1608072-01]	0.553	40	1601846	200			
F609416-MSD1	Matrix Spike Dup [1608071-06RE1]	0.56	40	1601846	200			
F609416-MSD2	Matrix Spike Dup [1608072-01]	0.563	40	1601846	200			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1601846	THg 1,000ng/mL Secondary Spiking Standard	11-Oct-16 00:00
1605270	THg 100ng/mL Primary Spiking Standard	10-Dec-16 00:00

<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1602941	25% Hydroxylamine-HCl working solution	03-Dec-16 00:00
1603399	Boiling Chips for AFS prep	01-Jun-17 00:00
1604378	Omnitrace Hydrochloric Acid	04-Aug-19 00:00
1604810	Fisher Nitric Acid, Tracemetal Grade	24-Mar-18 00:00
1605112	THg Dilute 1% BrCl	11-Jan-17 00:00
1605113	THg Washstation (0.5% BrCl)	03-Dec-16 00:00
1605348	3% SnCl2 THg reductant	09-Mar-17 00:00
1605394	5% BrCl	09-Feb-17 00:00

PREPARATION BENCH SHEET

F609416

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-066 Cold Aqua Regia Digestion for Hg

Prepared: 9/16/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608071-05	ES-03_072816_SED_03	0.53	40	-	-	-		
1608071-05RE1	ES-03_072816_SED_03	0.53	40	-	-	-	Added 9/20/2016 by DM2	Added 9/20/2016 by DM2
1608071-06	ES-FP_072816_SED_03	0.564	40	QC	-	-	MS/MSD	
1608071-06RE1	ES-FP_072816_SED_03	0.564	40	QC	-	-	MS/MSD Added 9/20/2016 by DM2	Added 9/20/2016 by DM2
1608071-07	ES-FP_072816_SED_03_DUP	0.569	40	-	-	-		
1608071-10	MMPOLY_072916_SED_03	0.552	40	-	-	-		
1608071-11	L9-45_072816_SED_03	0.534	40	-	-	-		
1608072-01	BO-04_072516_SED_03	0.543	40	QC	-	-	MS/MSD	
1608072-02	BO-04_072516_SED_03_DUP	0.576	40	-	-	-		
1608361-05	OCE-11	0.554	40	-	-	-		
1608361-06	OCE-14	0.543	40	-	-	-		
1608361-06RE1	OCE-14	0.543	40	-	-	-	Added 9/20/2016 by DM2	Added 9/20/2016 by DM2
1608361-07	OCE-15	0.571	40	-	-	-		
1608361-07RE1	OCE-15	0.571	40	-	-	-	Added 9/20/2016 by DM2	Added 9/20/2016 by DM2
1608361-08	OCE-11-1	0.569	40	-	-	-		
1608361-09	OCE-11-2	0.57	40	-	-	-		
1608361-10	OCE-11-3	0.591	40	-	-	-		
1608361-11	OCE-11-4	0.547	40	-	-	-		
1608361-12	OCE-11-5	0.558	40	-	-	-		

PREPARATION BENCH SHEET

F609416

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-066 Cold Aqua Regia Digestion for Hg

Prepared: 9/16/2016

1608361-13	OCE-11-6	0.547	40	-	-	-		
1608361-14	OCE-11-7	0.524	40	-	-	-		
1608361-15	OCE-11-8	0.58	40	-	-	-		
1608361-16	OCE-13	0.559	40	-	-	-		
1608361-17	OCE-13-1	0.531	40	-	-	-		

PREPARATION BENCH SHEET

2600.2

9/19/16 DM

F609420

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/16/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609420-BLK1	Blank	100	101					IX
F609420-BLK2	Blank	100	101					IX
F609420-BLK3	Blank	100	101					IX
F609420-BS1	LCS	95 100	50.5 101	1004715	100			IX
F609420-BSD1	LCS Dup	50 100	50.5 101	1004715	100			IX
F609420-DUP1	Duplicate 1008742-01	100	101					IX
F609420-MS1	Matrix Spike 1008742-05	100	101	1005272	25			IX
F609420-MS2	Matrix Spike 1008081-03	100	101	1005272	100			IX
F609420-MSD1	Matrix Spike Dup 1008742-05	100	101	1005272	25			IX
F609420-MSD2	Matrix Spike Dup 1008081-03	100	101	1005272	100			IX

Standard ID(s): Description:

Expiration:

1005113

1005112

1002941

~~1005269~~

1005348

PREPARATION BENCH SHEET

2000-2
9/19/16 DM

F609420

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/16/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608742-01	OL-2453-01	100	101	-	-	-	Scan all data for level IV report	IX
1608742-02	OL-2453-01 Dissolved	100	101	-	-	-	Scan all data for level IV report	IX
1608742-03	OL-2453-02	100	101	-	-	-	Scan all data for level IV report	IX
1608742-04	OL-2453-03	100	101	-	-	-	Scan all data for level IV report	IX
1608742-05	OL-2453-04	100	101	-	-	-	Scan all data for level IV report	IX
1608742-06	OL-2453-04 Dissolved	100	101	-	-	-	Scan all data for level IV report	IX
1608742-07	OL-2453-05	100	101	-	-	-	Scan all data for level IV report	IX
1608742-08	OL-2453-06	100	101	-	-	-	Scan all data for level IV report	IX
1608742-10	Laboratory Filter Blank	100	101	-	-	-	Scan all data for level IV report	IX
1608981-01	EB_083016_SW_QC	100	101	-	-	-	Scan all data - Level IV	IX
1608981-02	EB_083016_SW_QC Dissolved	100	101	-	-	-	Scan all data - Level IV	IX
1608981-03	WQ_1b-c_083016_SW_10	100	101	-	-	-	Scan all data - Level IV	IX
1608981-04	WQ_1b-c_083016_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	IX
1608981-05	WQ-2-C_083016_SW_10	100	101	-	-	-	Scan all data - Level IV	IX
1608981-06	WQ-2-C_083016_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	IX
1608981-07	WQ-3-L_083016_SW_10	100	101	-	-	-	Scan all data - Level IV	IX
1608981-08	WQ-3-L_083016_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	IX
981-09	WQ_FPT_083016_SW_10	100	101	-	-	-	Scan all data - Level IV	IX
981-10	WQ_FPT_083016_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	IX

532

536

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Date: 9/22/2016

PREPARATION BENCH SHEET

2600-2
9/19/16 DM

F609420

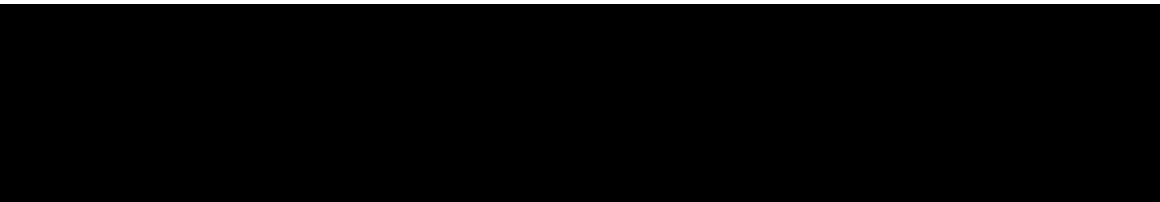
Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/16/2016

1608981-11	WQ-ECH_082916_SW_10	100	101	-	-	-	Scan all data - Level IV	IX
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Total Mercury Preservation Logbook

Initial preservation and/or verification

Technician: LMM Date: 8/24/16 Time Completed: 17:35

Work Orders: 1608735
1608741

Additional preservation and/or verification (as needed)

Technician: CSG Date: 8/25/16 Time Completed: 1:20
Technician: _____ Date: _____ Time Completed: _____

BrCl LIMS ID: 1603825, 1603825
Pipette SN: MU32229, MU32229
Cal. Date: 8/5/16, 8/5/16

Sample ID	Sample Volume (ml)	Reagent added (ml)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (ml)	Oxidized? Y/N
1608735-01A	300	3.00	Y			
1608735-02A	300	3.00	Y			
1608735-03A	300	3.00	Y			
1608735-04A	300	3.00	Y			
1608735-05A	300	15.00	Y	N	9.00	Y
1608735-06A	300	3.00	Y			
1608741-01A	300	3.00	Y			
1608741-02A	300	3.00	Y			
1608741-03A	300	3.00	Y			
* 1608741-04A	300	3.00	Y			
* 1608742-09A	300	3.00	Y			
1608742-01A	170	1.70	Y			
1608742-02A	150	1.50	Y			
1608742-03A	300	3.00	Y			
1608742-04A	300	3.00	Y			
1608742-05A	160	1.60	Y			
1608742-06A	150	1.50	Y			
1608742-07A	300	3.00	Y			
1608742-08A	300	3.00	Y			
1608742-10A	300	3.00	Y			
LMM 8/24/16						

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments: * 1608741-04A and 1608742-09A is preservation blank, used same bottle.

Total Mercury Preservation Logbook

Initial preservation and/or verification

Technician: LJM Date: 8/31/16 Time Completed: 18:50

Work Orders: 1608977
1608980, 1608981

Additional preservation and/or verification (as needed)

Technician: _____ Date: _____ Time Completed: _____

BrCl LIMS ID: 1603825, 1604595

Technician: _____ Date: _____ Time Completed: _____

Pipette SN: MU32224

Cal. Date: 8/5/16

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1608977-01A	300	3.00	Y			
1608977-02A	300	3.00	Y			
1608977-03A	300	3.00	Y			
1608977-04A	300	3.00	Y			
* 1608977-05A	300	10.00	Y			
1608977-06A	300	3.00	Y			
1608980-01A	300	3.00	Y			
1608980-02A	300	3.00	Y			
1608980-03A	300	3.00	Y			
1608980-04A	300	3.00	Y			
1608980-05A	300	3.00	Y			
1608980-06A	300	3.00	Y			
1608980-07A	300	3.00	Y			
1608981-01A	300	3.00	Y			
1608981-02A	300	3.00	Y			
1608981-03A	300	3.00	Y			
1608981-04A	300	3.00	Y			
1608981-05A	300	3.00	Y			
1608981-06A	300	3.00	Y			
1608981-07A	300	3.00	Y			
1608981-08A	300	3.00	Y			
1608981-09A	300	3.00	Y			
1608981-10A	300	3.00	Y			
1608981-11A	300	3.00	Y			
1608981-12A	300	3.00	Y			
1608981-13A	300	3.00	Y			

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments: 1608977-05A was taken directly as a 50/50 split into 1608977-05B. 10 ml sample + 10 ml BrCl. - LJM 8/31/16
BrCl 1603825 used on WO 1608977 & 1608980.
1604595 used on WO 1608981

PREPARATION BENCH SHEET

2600.2

9/19/16 DM

F609427

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/19/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609427-BLK1	Blank	100	101					IX
F609427-BLK2	Blank	100	101					IX
F609427-BLK3	Blank	100	101					IX
F609427-BLK4	Blank	25 100	50 101					10X
F609427-BS1	LCS	50 100	50.5 101	1604715	100			IX
F609427-BSD1	LCS Dup	50 100	50.5 101	1604715	100			IX
F609427-DUP1	Duplicate 1608981-15	100	101					IX
F609427-MS1	Matrix Spike [1608981-15]	100	101	1605272	50			IX
F609427-MS2	Matrix Spike [1608981-16]	100	101	1605272	25			IX
F609427-MSD1	Matrix Spike Dup [1608981-15]	100	101	1605272	50			IX
F609427-MSD2	Matrix Spike Dup [1608981-16]	100	101	1605272	25			IX

Standard ID(s): Description:

Expiration:

1605113

1605112

1602041

1605348

PREPARATION BENCH SHEET

250.2
9/19/16 om

F609427

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/19/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608981-12	WQ-ECH_082916_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	IX
1608981-13	ES-15_082916_SW_10	100	101	-	-	-	Scan all data - Level IV	IX
1608981-14	ES-15_082916_SW_10 Dissolved	100	101	-	-	-	Scan all data - Level IV	IX
1608981-15	OV02_082916_SW_10	100	101	QC	-	-	MS/MSD Scan all data - Level IV	IX
1608981-16	OV02_082916_SW_10 Dissolved	100	101	QC	-	-	MS/MSD Scan all data - Level IV	IX
1608981-17	OV02_082916_SW_10_DUP	100	101	-	-	-	Scan all data - Level IV	IX
1608981-18	OV02_082916_SW_10_DUP Dissolved	100	101	-	-	-	Scan all data - Level IV	IX
1609078-01	September 2016 Monthly Water ICPMS Sink 1	100	101	-	-	-	Do not oven samples (CCV 90-110%, c	IX
1609195-02	B-160424 PLANT INFLUENT #16-14030	100	101	-	-	scan Dat	give data to PM for scanning	IX
1609195-04	B-160397 PLANT EFFLUENT #16-14032	100	101	-	-	scan Dat	give data to PM for scanning	IX
1609300-01	Rinse Blank 9/13/16	100	101	-	-	-	Rinse blank for tubing sent to AMEC F	IX
1609390-01	Lagoons	100	101	-	-	-		IX
1609390-02	Lagoons Field Blank	100	101	-	-	-		IX
1609390-03	Clarifier	100	101	-	-	-		IX
1609390-04	Clarifier Field Blank	100	101	-	-	-		IX
1609390-05	A149	100 25	101 8	-	-	-		IX
1609390-06	A149 Blank	100	101	-	-	-		IX
422-01	802W-090816-01H	100	101	-	-	-		IX
423-01	802W-091216-01H	100	101	-	-	-		IX

PREPARATION BENCH SHEET

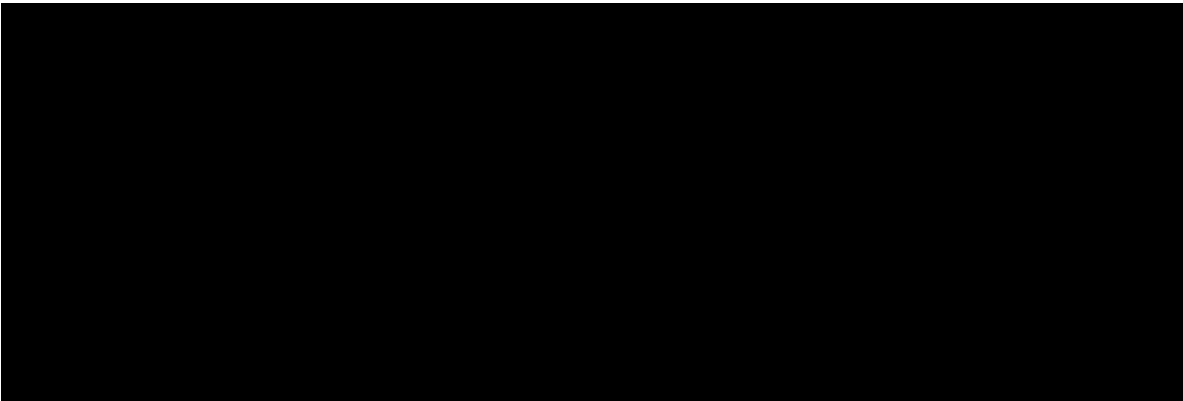
F609427

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 9/19/2016



Total Mercury Preservation Logbook

Initial preservation and/or verification

Technician: LM Date: 8/31/16 Time Completed: 19:00

Work Orders: 1608981

Additional preservation and/or verification (as needed)

Technician: _____ Date: _____ Time Completed: _____
 Technician: _____ Date: _____ Time Completed: _____

BrCl LIMS ID: 1604595

Pipette SN: MU32229

Cal. Date: 8/19/16

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1608981-14A	300	3.00	Y			
1608981-15A	300	3.00	Y			
1608981-15C	300	3.00	Y			
1608981-15E	300	3.00	Y			
1608981-16A	300	3.00	Y			
1608981-16C	300	3.00	Y			
1608981-16E	300	3.00	Y			
1608981-17A	300	3.00	Y			
1608981-18A	300	3.00	Y			
LM 8/31/16						

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: 9/6/16 Time Completed: 17:00

Work Orders: 1609068
1609078, 1609112

Additional preservation and/or verification (as needed)

Technician: _____ Date: _____ Time Completed: _____
Technician: _____ Date: _____ Time Completed: _____

BrCl LIMS ID: 1604595
Pipette SN: MU32229
Cal. Date: 8/5/16

Sample ID	Sample Volume (ml)	Reagent added (ml)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (ml)	Oxidized? Y/N
1609068-01A	300	3.00	Y			
1609068-02A	300	3.00	Y			
1609068-03A	300	3.00	Y			
1609068-04A	300	3.00	Y			
1609068-05A	300	3.00	Y			
1609068-06A	300	3.00	Y			
1609068-07A	300	3.00	Y			
1609078-01A	300	3.00	Y			
1609112-02A	580	5.80	Y			
1609112-04A	600	6.00	Y			
1609112-06A	600	6.00	Y			
1609112-08A	550	5.50	Y			
1609112-10A	500	5.00	Y			
LM 9/6/16						

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: CSQ Date: 9/8/16 Time Completed: 1635

Work Orders: 1609195

~~1609194~~ 1609198

CSQ 9/8/16

BrCl LIMS ID: 1601595

Additional preservation and/or verification (as needed)

Technician: _____ Date: _____ Time Completed: _____

Technician: _____ Date: _____ Time Completed: _____

Pipette SN: MU32229

Cal. Date: 9/8/16

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1609195-02A	300	3.00	y			
1609195-04A	300	3.00	y			
1609198-01A	300	3.00	y			
1609198-02A	300	3.00	y			
1609198-03A	300	3.00	y			
1609198-04A	300	3.00	y			
1609198-05A	300	3.00	y			
1609198-06A	300	3.00	y			
1609198-07A	300	3.00	y			
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(45deg); position: absolute; top: 50%; left: 50%;"></div> <p style="text-align: center; font-size: 2em;">9/8/16</p> <p style="text-align: center; font-size: 2em;">CSQ</p>						

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments: _____

Reviewed

Total Mercury Preservation Logbook

Initial preservation and/or verification

Technician: CSP Date: 9/13/16 Time Completed: 1730

Work Orders: 1609300

Additional preservation and/or verification (as needed)

Technician: _____ Date: _____ Time Completed: _____
 Technician: _____ Date: _____ Time Completed: _____

BrCl LIMS ID: 1604595

Pipette SN: MN32229

Cal. Date: 9/8/16

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
<u>1609300-01A</u>	<u>300</u>	<u>3.00</u>	<u>Y</u>			
<p><u>CSP</u> <u>9/13/16</u></p>						

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: 9/15/16 Time Completed: 1528

Work Orders: 1609390
1609393

Additional preservation and/or verification (as needed)

Technician: CSP Date: 9/15/16 Time Completed: 1535

Technician: _____ Date: _____ Time Completed: _____

BrCl LIMS ID: ^{CSP 9/15/16} ~~MU302~~ 1604595

Pipette SN: MU32229

Cal. Date: 9/14/16

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1609393-01A	550	5.50	Y			
1609390-01A	300	3.00	Y			
1609390-02A	300	3.00	Y			
1609390-03A	300	3.00	Y			
1609390-04A	300	3.00	Y			
* 1609390-05A	300	15.00	N	N		
CSP 9/15/16 1609393 1609390-06A	300	3.00	Y		CSP 9/15/16 2.00 18.00	
CSP 9/15/16						

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments: * 50/50 split created

Total Mercury Preservation Logbook

Initial preservation and/or verification

Technician: CSP Date: 9/16/16 Time Completed: 1535

Work Orders: 1609422, 1609423
1609438

Additional preservation and/or verification (as needed)

Technician: _____ Date: _____ Time Completed: _____
Technician: _____ Date: _____ Time Completed: _____

BrCl LIMS ID: 1604595
Pipette SN: 11A32229
Cal. Date: 9/16/16

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1609422-01A	500	5.00	Y			
1609422-02A		CSP 9/16/16				
1609423-01A	500	5.00	Y			
1609438-01A	300	3.00	Y			
1609438-02A	300	3.00	Y			

CSP
9/16/16

Oxidation with BrCl is confirmed by a yellow color change of the sample and/or a purple color change in KI starch paper.

Comments: _____

PREPARATION BENCH SHEET

2L00-2

9/19/16 DM

F609416

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-066 Cold Aqua Regia Digestion for Hg

Prepared: 9/16/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609416-BLK1	Blank	0.5	40					20X
F609416-BLK2	Blank	0.5	40					20X
F609416-BLK3	Blank	0.5	40					20X
F609416-BS1	Blank Spike	0.5	40	1605270	40			20X
F609416-BSD1	Blank Spike Dup	0.5	40	1605270	40			20X
F609416-DUP1	Duplicate [1608071-06] RE1	0.527	40					100X
F609416-MS1	Matrix Spike [1608071-06] RE1	0.539	40	1601846	200			500X
F609416-MS2	Matrix Spike [1608072-01]	0.553	40	1601846	200			500X
F609416-MSD1	Matrix Spike Dup [1608071-06] RE1	0.56	40	1601846	200			500X
F609416-MSD2	Matrix Spike Dup [1608072-01]	0.563	40	1601846	200			500X

Standard ID(s):
 1601846
 1605270

Description:
 THg 1,000ng/mL Secondary Spiking Standard
 THg 100ng/mL Primary Spiking Standard

Expiration:
 11-Oct-16 00:00
 10-Dec-16 00:00

Reagent ID(s):
 1603399
 1604378
 1604810
 1605394

Description:
 Boiling Chips for AFS prep
 Omnitrace Hydrochloric Acid
 Fisher Nitric Acid, Tracemetal Grade
 5% BrCl

Expiration:
 01-Jun-17 00:00
 04-Aug-19 00:00
 24-Mar-18 00:00
 09-Feb-17 00:00

1605113
 1605112
 1602941
 1605348

PREPARATION BENCH SHEET

2600-2

9/19/16 DM

F609416

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-066 Cold Aqua Regia Digestion for Hg

Prepared: 9/16/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608071-05	ES-03_072816_SED_03	0.53	40	-	-	-		100X → 500X
1608071-06	ES-FP_072816_SED_03	0.564	40	QC	-	-	MS/MSD	100X → 100X
1608071-07	ES-FP_072816_SED_03_DUP	0.569	40	-	-	-		100X
1608071-10	MMPOLY_072916_SED_03	0.552	40	-	-	-		100X
1608071-11	L9-45_072816_SED_03	0.534	40	-	-	-		100X
1608072-01	BO-04_072516_SED_03	0.543	40	QC	-	-	MS/MSD	500X
1608072-02	BO-04_072516_SED_03_DUP	0.576	40	-	-	-		500X
1608361-05	OCE-11	0.554	40	-	-	-		500X
1608361-06	OCE-14	0.543	40	-	-	-		500X → 20X
1608361-07	OCE-15	0.571	40	-	-	-		500X → 20X
1608361-08	OCE-11-1	0.569	40	-	-	-		500X
1608361-09	OCE-11-2	0.57	40	-	-	-		500X
1608361-10	OCE-11-3	0.591	40	-	-	-		500X
1608361-11	OCE-11-4	0.547	40	-	-	-		500X
1608361-12	OCE-11-5	0.558	40	-	-	-		500X
1608361-13	OCE-11-6	0.547	40	-	-	-		500X
1608361-14	OCE-11-7	0.524	40	-	-	-		500X
1608361-15	OCE-11-8	0.58	40	-	-	-		500X
1608361-16	OCE-13	0.559	40	-	-	-		500X

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Date: 9/8/2016

PREPARATION BENCH SHEET

2000-2

9/19/16 on

F609416

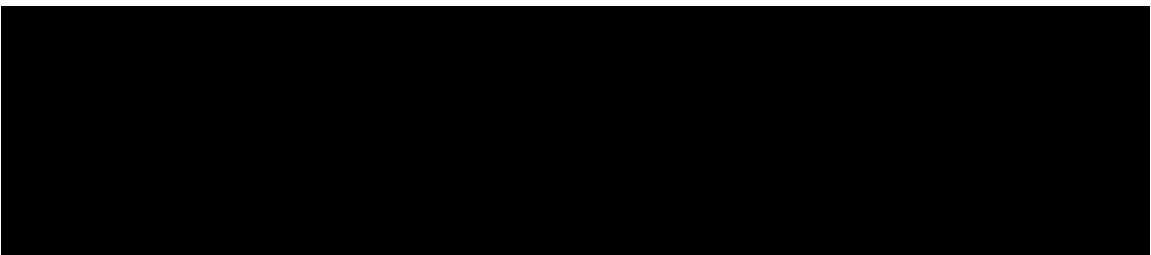
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-066 Cold Aqua Regia Digestion for Hg

Prepared: 9/16/2016

1608361-17	OCE-13-1	0.531	40	-	-	-	500X
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Technician: Dwyer Batch#: F609416 Date: 9/16/16

- EFGS-010 Tissues - Methyl Mercury - KOH/Methanol: Hot plate 75±5°C for 2-4 hours.
- EFGS-011 Tissues - Total Mercury - 70:30: Hot plate 75±5°C for two hours.
- EFGS-045 Sediments - Methyl Mercury - KBr/CH₂Cl₂: Heat Block 45°C (nitrogen purge for 30 minutes).
- EFGS-066 Solids - Total Mercury - Cold AR: 18-25°C for over four hours.

Other: _____ Vial Type: Glass Teflon

Balance#: 10 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

Final vol.: 40 mL (LIMS ID: 1605394) Spike vol.: 200 µL (LIMS ID: 1601846)

Spike Witness: AMB 9/16/16 (initial and date)

HCl LIMS ID: 1604378 1604378 Pipette SN#: MU11619 Calibration Date: 9/14/16
 HNO₃ LIMS ID: 1604810 Pipette SN#: 0842293 Calibration Date: 8/3/16
 70/30 LIMS ID: N/A Dispenser #: 09N45351 Calibrated? Yes No
 Other Acid LIMS ID: N/A Dispenser #: 02K27499 Yes
 Glass Vial # 00065315 Boiling Chip lot # 1603399 *Hotblock Position: N/A

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 checked="" type="checkbox"/> NA
1	F609416 Blank1	0.510	23	1608361-09	0.570	
2	F609416 Blank2	0.503	24	1608361-10	0.591	
3	F609416 Blank3	0.498	25	1608361-11	0.547	
4	F609416 B51	0.523	26	1608361-12	0.558	Comments Dupl. MS1, MS01 source 1608071-06 MS2 MS02 source 1608072-01 B51, B501 1605270 = 100 µg/L = 40 µL 9/19/16 BC
5	F609416 B501	0.518	27	1608361-13	0.547	
6	F609416 dupl	0.527	28	1608361-14	0.524	
7	F609416 MS1	0.539	29	1608361-15	0.580	
8	F609416 MS01	0.560	30	1608361-16	0.559	
9	F609416 MS2	0.553	31	1608361-17	0.531	
10	F609416 MS02	0.563	32			
11	1608071-10	0.552	33			
12	1608071-11	0.534	34			
13	1608072-01	0.534	35			
14	1608071-05	0.530	36			
15	1608071-06	0.564	37			
16	1608071-07	0.569	38			
17	1608072-01	0.543	39			
18	1608072-02	0.576	40			
19	1608361-05	0.554	41			
20	1608361-06	0.543	42			
21	1608361-07	0.571	43			
22	1608361-08	0.569	44			

Peer Review Check List for THg by 2600 CV-AFS (FGS-121) 2016 Rev 1 (04/1/2016)

Analyst:	DM	Sequence(s) #:	6120016, 6120007
Reviewer:	DAN WEIKART 9.20.16	Dataset ID(s):	THg26002-160919-1
Date:	9/20/2016	WO (s) #:	Various
Batch #(s):	F609420, F609427, F609416		

• 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 checked="" 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: DM

Reviewer Initials: DMW

- | | | | |
|---|---|--|--|
| 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?
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
Compare the "Dilute" and "Peak (raw)" columns to "Dilution" and "Uncorrected Result" in Excel | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input 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 <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?
50 ml / aliquot = Excel dilution value | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| (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 (FGS-121) 2016 Rev 1 (04/1/2016)

Analyst: DM	Sequence(s) #: 6I20016, 6I20007
Reviewer: 0	Dataset ID(s): THg26002-160919-1
Date: 9/20/2016	WO (s) #: Various
Batch #(s): F609420, F609427, F609416	0

Analyst Initials DM **Reviewer Initials** DMW

- 5b. Has the B/C section data been uploaded? YES NO N/A
- QA/QC Data Checked**
6. RSD CF ($\leq 15\%$) 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: Sample off curve
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 $2.2 \times MDL$ 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 (FGS-121) 2016 Rev 1 (04/1/2016)

Analyst: DM	Sequence(s) #: 6I20016, 6I20007
Reviewer: 0	Dataset ID(s): THg26002-160919-1
Date: 9/20/2016	WO (s) #: Various
Batch #(s): F609420, F609427, F609416	0

Analyst Initials DM **Reviewer Initials** DMW

- | | | | |
|--|--|-------------------------------|---|
| 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 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 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 checked="" type="checkbox"/> YES | | <input 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 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\igen_admin\Quality Assurance\Training Master\DOCs
- | | | | | |
|--|----------------------------------|---|-----------------------------|-------------------------------------|
| 36. Date of analyst IDOC/CDOC: <u>11/18/16</u> | 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: <u>5/20/16</u> | Current SOP revision read? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 38. Date of LOD: <u>5-11-16, 6-15-16</u> | LOD within last 3 months? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> |
| 39. Date of LOQ: <u>5-11-16, 6-15-16</u> | LOQ within last 3 months? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> |

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

MMHg27001-160923-1



Frontier Global Sciences

Analysis Datasheet for Methyl Mercury in Waters

Date of Analysis: September 23, 2016

Instrument #: Hg2700-1

LIMS Sequence #: 6123010

Analyst: RN

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	26.47 units	529.46	24.79 units	495.87	95.2 %Rec
SEQ-CAL2	1	0.20 ng/L	111.66 units	558.32	109.98 units	549.92	105.6 %Rec
SEQ-CAL3	1	1.00 ng/L	510.84 units	510.84	509.16 units	509.16	97.8 %Rec
SEQ-CAL4	1	2.00 ng/L	1025.51 units	512.75	1023.83 units	511.91	98.3 %Rec
SEQ-CAL5	1	4.00 ng/L	2151.11 units	537.78	2149.43 units	537.36	103.2 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF 520.85
 Corr. St Dev RF +/- 22.13
 Corr. RSD CF 4.2% RSD
 Uncorr. Mean RF 529.83
 Eff Factor 0.8046

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	1.68 units		0.00 ng/L	#VALUE!

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.007 ng/L	±0.003
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: DMW 9-23-16

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber												
Hq2700-1	RN	CAL	SEQ-1BL1	1	9/23/16 5:50	15893-1.RAW	5:50	1.68			0.0	0.000	0.000	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL1	1	9/23/16 6:00	15894-1.RAW	6:00	26.47			24.8	0.048	0.048	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL2	1	9/23/16 6:11	15895-1.RAW	6:11	111.66			110.0	0.211	0.211	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL3	1	9/23/16 6:21	15896-1.RAW	6:21	510.84			509.2	0.978	0.978	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL4	1	9/23/16 6:32	15897-1.RAW	6:32	1025.51			1023.8	1.966	1.966	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL5	1	9/23/16 6:42	15898-1.RAW	6:42	2151.11			2149.4	4.127	4.127	ng/L	
Hq2700-1	RN	CAL	SEQ-1CV1	1	9/23/16 6:53	15899-1.RAW	6:53	291.45			289.8	0.556	0.556	ng/L	
Hq2700-1	RN	CAL	SEQ-1CB1	1	9/23/16 7:03	15900-1.RAW	7:03	7.64			6.0	0.011	0.011	ng/L	
Hq2700-1	RN	BLK	F609484-BLK1	1.25	9/23/16 7:14	15901-1.RAW	7:14	4.58	1		2.9	0.007	0.009	ng/L	
Hq2700-1	RN	BLK	F609484-BLK2	1.25	9/23/16 7:24	15902-1.RAW	7:24	4.29	1		2.6	0.006	0.008	ng/L	
Hq2700-1	RN	BLK	F609484-BLK3	1.25	9/23/16 7:35	15903-1.RAW	7:35	2.96	1		1.3	0.003	0.004	ng/L	
Hq2700-1	RN	SAM	F609484-B51	1.25	9/23/16 7:45	15904-1.RAW	7:45	420.94	1		419.3	0.995	1.244	ng/L	
Hq2700-1	RN	SAM	F609484-B5D1	1.25	9/23/16 7:56	15905-1.RAW	7:56	440.73	1		439.1	1.042	1.303	ng/L	
Hq2700-1	RN	SAM	F609484-DUP1	1.25	9/23/16 8:06	15906-1.RAW	8:06	23.89	1		22.2	0.048	0.059	ng/L	
Hq2700-1	RN	SAM	F609484-MS1	1.25	9/23/16 8:17	15907-1.RAW	8:17	479.42	1		477.7	1.135	1.418	ng/L	
Hq2700-1	RN	SAM	F609484-MSD1	1.25	9/23/16 8:27	15908-1.RAW	8:27	481.27	1		479.6	1.139	1.424	ng/L	
Hq2700-1	RN	SAM	F609484-MS2	1.25	9/23/16 8:38	15909-1.RAW	8:38	422.92	1		421.2	1.000	1.250	ng/L	
Hq2700-1	RN	SAM	F609484-MSD2	1.25	9/23/16 8:48	15910-1.RAW	8:48	400.61	1		398.9	0.947	1.183	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV1	1	9/23/16 8:59	15911-1.RAW	8:59	335.94			334.3	0.642	0.642	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB1	1	9/23/16 9:09	15912-1.RAW	9:09	4.53			2.9	0.005	0.005	ng/L	
Hq2700-1	RN	SAM	1608741-01	1.25	9/23/16 9:20	15913-1.RAW	9:20	24.02	1		22.3	0.048	0.060	ng/L	
Hq2700-1	RN	SAM	1608741-02	1.25	9/23/16 9:30	15914-1.RAW	9:30	23.38	1		21.7	0.046	0.058	ng/L	
Hq2700-1	RN	SAM	1608741-03	1.25	9/23/16 9:41	15915-1.RAW	9:41	21.13	1		19.4	0.041	0.051	ng/L	
Hq2700-1	RN	SAM	1608742-01	1.25	9/23/16 9:51	15916-1.RAW	9:51	46.98	1		45.3	0.103	0.128	ng/L	
Hq2700-1	RN	SAM	1608742-03	1.25	9/23/16 10:02	15917-1.RAW	10:02	51.82	1		50.1	0.114	0.143	ng/L	
Hq2700-1	RN	SAM	1608742-04	1.25	9/23/16 10:12	15918-1.RAW	10:12	53.85	1		52.2	0.119	0.149	ng/L	
Hq2700-1	RN	SAM	1608742-05	1.25	9/23/16 10:23	15919-1.RAW	10:23	52.49	1		50.8	0.116	0.145	ng/L	
Hq2700-1	RN	SAM	1608742-07	1.25	9/23/16 10:33	15920-1.RAW	10:33	82.15	1		80.5	0.187	0.233	ng/L	
Hq2700-1	RN	SAM	1608742-08	1.25	9/23/16 10:44	15921-1.RAW	10:44	24.32	1		22.6	0.049	0.061	ng/L	
Hq2700-1	RN	SAM	1608981-01	1.25	9/23/16 10:54	15922-1.RAW	10:54	7.57	1		5.9	0.009	0.011	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV2	1	9/23/16 11:05	15923-1.RAW	11:05	353.87			352.2	0.676	0.676	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB2	1	9/23/16 11:15	15924-1.RAW	11:15	1.81			0.1	0.000	0.000	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV3	1	9/23/16 11:59	15925-1.RAW	11:59	280.01			278.3	0.534	0.534	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV4	1	9/23/16 12:10	15926-1.RAW	12:10	256.87			255.2	0.490	0.490	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB3	1	9/23/16 12:20	15927-1.RAW	12:20	2.69			1.0	0.002	0.002	ng/L	
Hq2700-1	RN	SAM	1608981-02	1.25	9/23/16 12:31	15928-1.RAW	12:31	1.92	1		0.2	-0.005	-0.006	ng/L	
Hq2700-1	RN	SAM	1608981-03	1.25	9/23/16 12:42	15929-1.RAW	12:42	130.79	1		129.1	0.303	0.378	ng/L	
Hq2700-1	RN	SAM	1608981-04	1.25	9/23/16 12:52	15930-1.RAW	12:52	52.46	1		50.8	0.116	0.145	ng/L	
Hq2700-1	RN	SAM	1608981-05	1.25	9/23/16 13:03	15931-1.RAW	13:03	48.58	1		46.9	0.106	0.133	ng/L	
Hq2700-1	RN	SAM	1608981-06	1.25	9/23/16 13:13	15932-1.RAW	13:13	25.82	1		24.1	0.052	0.065	ng/L	
Hq2700-1	RN	SAM	1608981-07	1.25	9/23/16 13:24	15933-1.RAW	13:24	43.76	1		42.1	0.095	0.119	ng/L	
Hq2700-1	RN	SAM	1608981-08	1.25	9/23/16 13:34	15934-1.RAW	13:34	11.59	1		9.9	0.018	0.023	ng/L	
Hq2700-1	RN	SAM	1608981-09	1.25	9/23/16 13:45	15935-1.RAW	13:45	19.18	1		17.5	0.036	0.045	ng/L	
Hq2700-1	RN	SAM	1608981-10	1.25	9/23/16 13:55	15936-1.RAW	13:55	5.82	1		4.1	0.004	0.006	ng/L	
Hq2700-1	RN	SAM	1608981-11	1.25	9/23/16 14:06	15937-1.RAW	14:06	62.52	1		60.8	0.140	0.175	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV5	1	9/23/16 14:16	15938-1.RAW	14:16	387.45			385.8	0.741	0.741	ng/L	

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber												
Hq2700-1	RN	CAL	SEQ-CCB4	1	9/23/16 14:27	15939-1.RAW	14:27	2.50			0.8	0.002	0.002	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV6	1	9/23/16 14:37	15940-1.RAW	14:37	256.08			254.4	0.488	0.488	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV7	1	9/23/16 14:48	15941-1.RAW	14:48	261.95			260.3	0.500	0.500	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB5	1	9/23/16 14:58	15942-1.RAW	14:58	2.38			0.7	0.001	0.001	ng/L	

MethylMercury EPA1630
 Operat RN BlankS: 1.6796 Calib Eqn: Conc = (Area-1.680) / 520.846
 Workst MhQ270 CalibFa 520.85 Status: OK, 1 Warnings
 Methox 2010-01 R: 0.9997 R²: 0.999354403
 Descrip MhQ27001-160923-1
 Run Date: ##### Blank SD: 0
 Run Time: 11:49:25 Blank RSC: 0
 CalibAnaly MeHg CF SD: 22.12590298
 4.248068909

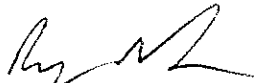
Sample/ID	Location	Rinse	Dilute	Blank	ConcHg0(p)	ConcMeHg(opt)	ConcHg2(p)	ConcPrHg(f)	Rec%	QA	RawData	RunEnd	PeakHg0 (Raw)	PeakMeHg (R)	PeakHg2(Raw)	PeakPrHg(Raw)	Control (etf)	Flags	RunCount
Clean				0		0.001199342	0.012581				15891-1.RAW		0	0.62467262	6.55259382		0 cleandry	OK	1
WS	A1			1.6796	0.04614	0.00271966	0.065541				15892-1.RAW		25.7116477	3.09616477	35.816572		0 psample10	CT	1
SEQ-IBL1	A2		1	0	0.101867	0.00322483	0.053165				15893-1.RAW		53.0571496	1.67964015	27.6909091		0 psample10	CT	1
SEQ-CAL1	A3		1	1.6796	0.125958	0.047602557	0.061717		95.21		15894-1.RAW		67.2845562	26.4732481	33.8247633		0 psample10	CT	1
SEQ-CAL2	A4		1	1.6796	0.160262	0.211165898	0.073876		105.58		15895-1.RAW		85.1515388	111.664583	40.1577888		0 psample10	CT	1
SEQ-CAL3	A5		1	1.6796	0.325195	0.97756487	0.069365		97.76		15896-1.RAW		171.056068	510.84053	37.808286		0 psample10	CT	1
SEQ-CAL4	A6		1	1.6796	0.515419	1.965704571	0.080234		98.29		15897-1.RAW		270.133569	1025.50928	43.4690814		0 psample10	CT	1
SEQ-CAL5	A7		1	1.6796	0.970115	4.126808882	0.113927		103.17		15898-1.RAW		506.960284	2151.11212	61.0181345		0 psample10	CT	1
SEQ-ICV1	A8		1	1.6796	1.700335	0.556339865	0.411814		111.41		15899-1.RAW		887.29277	291.447112	216.171591		0 psample10	CT	1
SEQ-ICB1	A9		1	1.6796	0.153241	0.0114404	0.054508		0.00		15900-1.RAW		81.4946496	7.6383286	30.0701705		0 psample10	CT	1
F609484-BLK1	A10		1.25	1.6796	0.148614	0.006971874	0.082346				15901-1.RAW		63.6035654	4.58465909	35.9915009		0 psample10	CT	1
F609484-BLK2	A11		1.25	1.6796	0.148101	0.006256096	0.075491				15902-1.RAW		63.3900568	4.28641098	33.1349669		0 psample10	OK	1
F609484-BLK3	A12		1.25	1.6796	0.111121	0.003082311	0.066058				15903-1.RAW		47.981179	2.9639678	29.2043087		0 psample10	CT	1
F609484-BS1	A13		1.25	1.6796	0.117879	1.006190711	0.069923				15904-1.RAW		50.7969223	420.93608	30.8147727		0 psample10	CT	1
F609484-BSD1	A14		1.25	1.6796	0.124236	1.053696418	0.095923				15905-1.RAW		53.4457386	440.730611	41.6486269		0 psample10	CT	1
F609484-DUP1	A15		1.25	1.6796	0.078634	0.053302098	0.086069				15906-1.RAW		34.4444839	23.8893939	37.5425663		0 psample10	OK	1
F609484-MS1	A16		1.25	1.6796	0.154429	1.146540328	0.106502		108.85		15907-1.RAW		66.0266098	479.416525	46.0564394		0 psample10	CT	1
F609484-MSD1	A17		1.25	1.6796	0.247534	1.150979651	0.156613				15908-1.RAW		104.821527	481.266288	66.9365243		0 psample10	CT	1
F609484-MS2	A18		1.25	1.6796	0.125917	1.010945822	0.09907		32.08		15909-1.RAW		54.1464015	422.917424	42.9600142		0 psample10	CT	1
F609484-MSD2	A19		1.25	1.6796	0.10961	0.95742032	0.089463				15910-1.RAW		47.3516572	400.614583	38.9566103		0 psample10	CT	1
SEQ-CCV1	A20		1	1.6796	0.709619	0.641757128	0.542363		128.51		15911-1.RAW		371.281848	335.936364	284.167472		0 psample10	CT	1
SEQ-CCB1	A21		1	1.6796	0.07477	0.005478593	0.08239		0.00		15912-1.RAW		40.6233902	4.53314394	44.5922348		0 psample10	CT	1
1608741-01	B1		1.25	1.6796	0.075074	0.053625784	0.085015				15913-1.RAW		32.9612216	24.0242661	37.1033617		0 psample10	OK	1
1608741-02	B2		1.25	1.6796	0.074009	0.052084401	0.091326				15914-1.RAW		32.517589	23.3820076	39.7329514		0 psample10	CT	1
1608741-03	B3		1.25	1.6796	0.060744	0.046673455	0.093774				15915-1.RAW		26.9902225	21.1273911	40.7387311		0 psample10	OK	1
1608742-01	B4		1.25	1.6796	0.087165	0.108712327	0.145592				15916-1.RAW		37.9993134	46.9775568	62.3444949		0 psample10	OK	1
1608742-03	B5		1.25	1.6796	0.112252	0.120324996	0.150889				15917-1.RAW		48.4525331	51.8162879	64.5517282		0 psample10	CT	1
1608742-04	B6		1.25	1.6796	0.076301	0.125217489	0.137316				15918-1.RAW		33.4724669	53.8548769	58.8959991		0 psample10	OK	1
1608742-05	B7		1.25	1.6796	0.155513	0.121945297	0.120915				15919-1.RAW		66.4784564	52.4914299	52.0623106		0 psample10	CT	1
1608742-07	B8		1.25	1.6796	0.149538	0.193120194	0.137752				15920-1.RAW		63.9884943	82.1483665	59.0775331		0 psample10	OK	1
1608742-08	B9		1.25	1.6796	0.124906	0.054338039	0.086515				15921-1.RAW		53.725	24.3210464	37.7285275		0 psample10	CT	1
1608981-01	B10		1.25	1.6796	0.085367	0.014129255	0.100616				15922-1.RAW		37.2502043	7.56697443	43.6041208		0 psample10	CT	1
SEQ-CCV2	B11		1	1.6796	0.374065	0.676183645	0.594188		135.40		15923-1.RAW		196.50988	353.867282	311.160192		0 psample10	CT	1
SEQ-CCB2	B12		1	1.6796	0.057069	0.000246903	0.064648		0.00		15924-1.RAW	11:15:59	31.4035748	1.80823864	35.35116		0 psample10	CT	1
SEQ-CCV3	C4		1	1.6796	1.092727	0.534382223	0.434219		107.01		15925-1.RAW		570.822453	280.010559	227.841074		0 psample10	CT	1
SEQ-CCV4	C5		1	1.6796	0.835467	0.48995577	0.401647		98.11		15926-1.RAW		436.82954	256.871212	210.876006		0 psample10	CT	1
SEQ-CCB3	C6		1	1.6796	0.083172	0.001947816	0.06168		0.00		15927-1.RAW		44.9992491	2.69415246	33.8053267		0 psample10	OK	1
1608981-02	B13		1.25	1.6796	0.092358	0.000566804	0.182861				15928-1.RAW		40.1629735	1.91581439	77.8736099		0 psample10	CT	1
1608981-03	B14		1.25	1.6796	0.143547	0.309845562	1.762647				15929-1.RAW		61.4924716	130.785133	736.134076		0 psample10	CT	1
1608981-04	B15		1.25	1.6796	0.078356	0.121879673	0.160353				15930-1.RAW		34.3288116	52.4640862	68.4949337		0 psample10	CT	1
1608981-05	B16		1.25	1.6796	0.067074	0.112547573	0.413974				15931-1.RAW		29.6276515	48.5756155	174.173055		0 psample10	CT	1
1608981-06	B17		1.25	1.6796	0.046129	0.057940337	0.100519				15932-1.RAW		20.9004261	25.8220407	43.5634233		0 psample10	OK	1
1608981-07	B18		1.25	1.6796	0.052763	0.100992517	0.169853				15933-1.RAW		23.6648437	43.7608902	72.453267		0 psample10	CT	1
1608981-08	B19		1.25	1.6796	0.051304	0.023782711	0.127078				15934-1.RAW		23.0568419	11.5893466	54.630232		0 psample10	CT	1
1608981-09	B20		1.25	1.6796	0.046028	0.04199891	0.111541				15935-1.RAW		20.8586411	19.1796165	48.1562027		0 psample10	OK	1
1608981-10	B21		1.25	1.6796	0.045833	0.009927142	0.121307				15936-1.RAW		20.777036	5.81605114	52.2253314		0 psample10	OK	1
1608981-11	C1		1.25	1.6796	0.049659	0.146017432	0.191727				15937-1.RAW		22.3715076	62.521733	81.567661		0 psample10	OK	1
SEQ-CCV5	C2		1	1.6796	0.636155	0.740659605	0.696089		148.32		15938-1.RAW		333.018365	387.449337	364.234655		0 psample10	CT	1
SEQ-CCB4	C3		1	1.6796	0.042319	0.001581325	0.082736		0.00		15939-1.RAW		23.7211648	2.50326705	44.7724905		0 psample10	CT	1
SEQ-CCV6	C4		1	1.6796	1.455898	0.488434625	0.487325		97.81		15940-1.RAW		759.978371	256.07893	255.500784		0 psample10	OK	1
SEQ-CCV7	C5		1	1.6796	1.227197	0.499703303	0.461682		100.06		15941-1.RAW		640.860439	261.948177	242.145071		0 psample10	CT	1
SEQ-CCB5	C6		1	1.6796	0.078801	0.00135033	0.070085		0.00		15942-1.RAW	14:58:41	42.7226799	2.38295455	38.1830966		0 psample10	OK	1

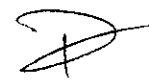
MethylMercury EPA1630
 Operat: RN
 BlankS: 1.6796
 Calib Eqn: Conc = (Area-1.680) / 520.846
 Run Date: #####
 Blank SD: 0
 Workst: MHg270
 CalibFa: 520.85
 Status: OK, 1 Warnings
 Run Time: 11:49:25
 Blank RSC: 0
 Methoc: 2010-01
 R: 0.9997
 R²: 0.999354403
 CalibAnaly: MeHg
 CF SD: 22.12590298
 4.248068909
 Descrip: MHg27001-160923-1
 CF RSD%: 0

Sample/ID	Location	Rinse	Dilute	Blank	ConcHg0(p)	ConcMeHg(ppt)	ConcHg2(p)	ConcPrHg(Rec%)	QA	RawData	RunEnd	PeakHg0 (Raw)	PeakMeHg (R)	PeakHg2(Raw)	PeakPrHg(Raw)	Control (etf)	Flags	RunCount
Clean				0		0.001199342	0.012581			15891-1.RAW	5:29:04	0	0.62467262	6.55259382	0	cleandry	OK	1
WS	A1			1.6796	0.04614	0.00271966	0.065548			15892-1.RAW	5:39:35	25.7116477	3.09616477	35.8201941	0	psample10	CT	1
SEQ-IBL1	A2		1	0	0.101867	0.00322483	0.053165			15893-1.RAW	5:50:05	53.0571496	1.67964015	27.6909091	0	psample10	CT	1
SEQ-CAL1	A3		1	1.6796	0.125986	0.047602557	0.061717	95.21		15894-1.RAW	6:00:36	67.2990342	26.4732481	33.8247633	0	psample10	CT	1
SEQ-CAL2	A4		1	1.6796	0.160262	0.211165898	0.073876	105.58		15895-1.RAW	6:11:07	85.1515388	111.664583	40.1577888	0	psample10	CT	1
SEQ-CAL3	A5		1	1.6796	0.325195	0.97756487	0.069365	97.76		15896-1.RAW	6:21:37	171.056068	510.84053	37.808286	0	psample10	CT	1
SEQ-CAL4	A6		1	1.6796	0.515419	1.965704571	0.080226	98.29		15897-1.RAW	6:32:08	270.133569	1025.50928	43.4648674	0	psample10	CT	1
SEQ-CAL5	A7		1	1.6796	0.970115	4.126808882	0.113927	103.17		15898-1.RAW	6:42:39	506.960284	2151.11212	61.0181345	0	psample10	CT	1
SEQ-ICV1	A8		1	1.6796	1.700335	0.556339865	0.411814	111.41		15899-1.RAW	6:53:09	887.29277	291.447112	216.171591	0	psample10	CT	1
SEQ-ICB1	A9		1	1.6796	0.153241	0.0114404	0.054508	0.00		15900-1.RAW	7:03:40	81.4946496	7.6383286	30.0701705	0	psample10	CT	1
F609484-BLK1	A10		1.25	1.6796	0.148614	0.006971874	0.082345			15901-1.RAW	7:14:12	63.6035654	4.58465909	35.9910038	0	psample10	CT	1
F609484-BLK2	A11		1.25	1.6796	0.148055	0.006256096	0.075083			15902-1.RAW	7:24:43	63.3705729	4.28641098	32.9651042	0	psample10	OK	1
F609484-BLK3	A12		1.25	1.6796	0.111121	0.003082311	0.066058			15903-1.RAW	7:35:14	47.981179	2.9639678	29.2043087	0	psample10	CT	1
F609484-BS1	A13		1.25	1.6796	0.117879	1.006190711	0.069923			15904-1.RAW	7:45:44	50.7969223	420.93608	30.8147727	0	psample10	CT	1
F609484-BSD1	A14		1.25	1.6796	0.124236	1.053696418	0.095923			15905-1.RAW	7:56:15	53.4457386	440.730611	41.6486269	0	psample10	CT	1
F609484-DUP1	A15		1.25	1.6796	0.078634	0.053302098	0.086069			15906-1.RAW	8:06:46	34.4444839	23.8893939	37.5425663	0	psample10	OK	1
F609484-MS1	A16		1.25	1.6796	0.154429	1.146540328	0.106502	108.85		15907-1.RAW	8:17:17	66.0266098	479.416525	46.0564394	0	psample10	CT	1
F609484-MSD1	A17		1.25	1.6796	0.247534	1.150979651	0.156662			15908-1.RAW	8:27:47	104.821527	481.266288	66.956918	0	psample10	CT	1
F609484-MS2	A18		1.25	1.6796	0.125917	1.010945822	0.09907	32.08		15909-1.RAW	8:38:18	54.1464015	422.917424	42.9600142	0	psample10	CT	1
F609484-MSD2	A19		1.25	1.6796	0.10961	0.957431115	0.089463			15910-1.RAW	8:48:49	47.3516572	400.619081	38.9566103	0	psample10	CT	1
SEQ-CCV1	A20		1	1.6796	0.709437	0.641757128	0.542363	128.51		15911-1.RAW	8:59:20	371.187252	335.936364	284.167472	0	psample10	CT	1
SEQ-CCB1	A21		1	1.6796	0.073514	0.005472684	0.08239	0.00		15912-1.RAW	9:09:50	39.9691525	4.53006629	44.5922348	0	psample10	CT	1
1608741-01	B1		1.25	1.6796	0.075074	0.053625784	0.085015			15913-1.RAW	9:20:21	32.9612216	24.0242661	37.1033617	0	psample10	OK	1
1608741-02	B2		1.25	1.6796	0.074009	0.052084401	0.091326			15914-1.RAW	9:30:52	32.517589	23.3820076	39.7329514	0	psample10	CT	1
1608741-03	B3		1.25	1.6796	0.060744	0.046673455	0.09374			15915-1.RAW	9:41:23	26.9902225	21.1273911	40.7387311	0	psample10	OK	1
1608742-01	B4		1.25	1.6796	0.087165	0.108712327	0.145592			15916-1.RAW	9:51:53	37.9993134	46.9775568	62.3444949	0	psample10	OK	1
1608742-03	B5		1.25	1.6796	0.112252	0.120324996	0.150861			15917-1.RAW	10:02:24	48.4525331	51.8162879	64.5399621	0	psample10	CT	1
1608742-04	B6		1.25	1.6796	0.076194	0.125217489	0.137316			15918-1.RAW	10:12:55	33.4278883	53.8548769	58.8959991	0	psample10	OK	1
1608742-05	B7		1.25	1.6796	0.155513	0.121945297	0.120915			15919-1.RAW	10:23:26	66.4784564	52.4914299	52.0623106	0	psample10	CT	1
1608742-07	B8		1.25	1.6796	0.149538	0.192726056	0.137752			15920-1.RAW	10:33:56	63.9884943	81.9841383	59.0775331	0	psample10	OK	1
1608742-08	B9		1.25	1.6796	0.124906	0.054338039	0.086515			15921-1.RAW	10:44:27	53.725	24.3210464	37.7285275	0	psample10	CT	1
1608981-01	B10		1.25	1.6796	0.085367	0.014129255	0.100616			15922-1.RAW	10:54:58	37.2502043	7.56697443	43.6041208	0	psample10	CT	1
SEQ-CCV2	B11		1	1.6796	0.374065	0.676183645	0.594188	135.40		15923-1.RAW	11:05:28	196.50988	353.867282	311.160192	0	psample10	CT	1
SEQ-CCB2	B12		1	1.6796	0.057069	0.000246903	0.064648	0.00		15924-1.RAW	11:15:59	31.4035748	1.80823864	35.35116	0	psample10	CT	1
SEQ-CCV3	C4		1	1.6796	1.092727	0.534382223	0.434219	107.01		15925-1.RAW	11:59:58	570.822453	280.010559	227.841074	0	psample10	CT	1
SEQ-CCV4	C5		1	1.6796	0.835467	0.48995577	0.401647	98.11		15926-1.RAW	12:10:28	436.82954	256.871212	210.876006	0	psample10	CT	1
SEQ-CCB3	C6		1	1.6796	0.083172	0.001947816	0.06168	0.00		15927-1.RAW	12:20:59	44.9992491	2.69415246	33.8053267	0	psample10	OK	1
1608981-02	B13		1.25	1.6796	0.092358	0.000566804	0.182861			15928-1.RAW	12:31:30	40.1629735	1.91581439	77.8736099	0	psample10	CT	1
1608981-03	B14		1.25	1.6796	0.143547	0.309845562	1.762647			15929-1.RAW	12:42:01	61.4924716	130.785133	736.134076	0	psample10	CT	1
1608981-04	B15		1.25	1.6796	0.078356	0.121879673	0.160353			15930-1.RAW	12:52:31	34.3288116	52.4640862	68.4949337	0	psample10	CT	1
1608981-05	B16		1.25	1.6796	0.067046	0.112547573	0.413974			15931-1.RAW	13:03:02	29.6159991	48.5756155	174.173055	0	psample10	CT	1
1608981-06	B17		1.25	1.6796	0.046129	0.057940337	0.100519			15932-1.RAW	13:13:33	20.9004261	25.8220407	43.5634233	0	psample10	OK	1
1608981-07	B18		1.25	1.6796	0.052763	0.101382052	0.169853			15933-1.RAW	13:24:03	23.6648437	43.9232008	72.453267	0	psample10	CT	1
1608981-08	B19		1.25	1.6796	0.051304	0.023782711	0.127091			15934-1.RAW	13:34:34	23.0568419	11.5893466	54.6357008	0	psample10	CT	1
1608981-09	B20		1.25	1.6796	0.046028	0.04199891	0.110563			15935-1.RAW	13:45:05	20.8586411	19.1796165	47.7488636	0	psample10	OK	1
1608981-10	B21		1.25	1.6796	0.045833	0.011009729	0.121449			15936-1.RAW	13:55:36	20.777036	6.26714015	52.3017519	0	psample10	OK	1
1608981-11	C1		1.25	1.6796	0.049659	0.146017432	0.191727			15937-1.RAW	14:06:06	22.3715076	62.521733	81.567661	0	psample10	OK	1
SEQ-CCV5	C2		1	1.6796	0.636155	0.740659605	0.696089	148.32		15938-1.RAW	14:16:37	333.018365	387.449337	364.234655	0	psample10	CT	1
SEQ-CCB4	C3		1	1.6796	0.042319	0.001517417	0.082736	0.00		15939-1.RAW	14:27:08	23.7211648	2.46998106	44.7724905	0	psample10	CT	1
SEQ-CCV6	C4		1	1.6796	1.455266	0.488434625	0.487325	97.81		15940-1.RAW	14:37:39	759.649376	256.07893	255.500784	0	psample10	OK	1
SEQ-CCV7	C5		1	1.6796	1.227197	0.499703303	0.461682	100.06		15941-1.RAW	14:48:10	640.860439	261.948177	242.145071	0	psample10	CT	1
SEQ-CCB5	C6		1	1.6796	0.078801	0.00135033	0.070085	0.00		15942-1.RAW	14:58:41	42.7226799	2.38295455	38.1830966	0	psample10	OK	1

Failing Data Report - 6I23010

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
6I23010-CCV2	MHg-CVAFS-W-Dist	0.676	0.045			0.50049	ng/L	135	67.00	133.00			PASS-OVER	FAIL-CCV	DMR
6I23010-CCV5	MHg-CVAFS-W-Dist	0.741	0.045			0.50049	ng/L	148	67.00	133.00			PASS-OVER	FAIL-CCV	DMR


 Analyst Reviewed By _____
 Date 9/23/16


 Peer Reviewed By _____
 Date 9-23-16

ANALYSIS SEQUENCE

6123010

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/23/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6123010-IBL1	QC	1			
6123010-CAL1	QC	2	1604163		
6123010-CAL2	QC	3	1604164		
6123010-CAL3	QC	4	1604165		
6123010-CAL4	QC	5	1604166		
6123010-CAL5	QC	6	1604167		
6123010-ICV1	QC	7	1605079		
6123010-ICB1	QC	8			
F609484-BLK1	QC	9			
F609484-BLK2	QC	10			
F609484-BLK3	QC	11			
F609484-BS1	QC	12			
F609484-BSD1	QC	13			
F609484-DUP1	QC	14			
F609484-MS1	QC	15			
F609484-MSD1	QC	16			
F609484-MS2	QC	17			
F609484-MSD2	QC	18			
6123010-CCV1	QC	19	1605079		
6123010-CCB1	QC	20			
1608741-01	MHg-CVAFS-W-Dist	21			Scan all data for level IV report
1608741-02	MHg-CVAFS-W-Dist	22			Scan all data for level IV report
1608741-03	MHg-CVAFS-W-Dist	23			Scan all data for level IV report
1608742-01	MHg-CVAFS-W-Dist	24			Scan all data for level IV report
1608742-03	MHg-CVAFS-W-Dist	25			Scan all data for level IV report
1608742-04	MHg-CVAFS-W-Dist	26			Scan all data for level IV report
1608742-05	MHg-CVAFS-W-Dist	27			Scan all data for level IV report
1608742-07	MHg-CVAFS-W-Dist	28			Scan all data for level IV report
1608742-08	MHg-CVAFS-W-Dist	29			Scan all data for level IV report
1608981-01	MHg-CVAFS-W-Dist	30			Scan all data - Level IV
6123010-CCV2	QC	31	1605079		
6123010-CCB2	QC	32			
6123010-CCV3	QC	33	1605079		
6123010-CCV4	QC	34	1605079		
6123010-CCB3	QC	35			

Due Date: 9/22/2016

PREPARATION BENCH SHEET

F609484

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/22/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609484-BLK1	Blank	45	40					
F609484-BLK2	Blank	45	40					
F609484-BLK3	Blank	45	40					
F609484-BS1	Blank Spike	45	40	1603908	45			
F609484-BSD1	Blank Spike Dup	45	40	1603908	45			
F609484-DUP1	Duplicate [1608741-01]	45	40					
F609484-MS1	Matrix Spike [1608742-05]	45	40	1603908	45			
F609484-MS2	Matrix Spike [1608981-01]	45	40	1603908	45			
F609484-MSD1	Matrix Spike Dup [1608742-05]	45	40	1603908	45			
F609484-MSD2	Matrix Spike Dup [1608981-01]	45	40	1603908	45			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1603908	MHg New Primary 1.0 ng/mL CAL	19-Oct-16 00:00	1604614	Acetate Buffer	15-Feb-17 00:00
			1605166	Ethylating Agent (For Methyl Mercury Analysis)	05-Mar-17 00:00
			1605512	APDC	21-Mar-17 00:00
			1605513	0.5% Distillation Dilute (Made Daily)	
			1605520	2.5% Ascorbic Acid	30-Sep-16 00:00

PREPARATION BENCH SHEET

F609484

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/22/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608741-01	OL-2446-01	45	40	-	-	-	Scan all data for level IV report	
1608741-02	OL-2446-02	45	40	-	-	-	Scan all data for level IV report	
1608741-03	OL-2446-03	45	40	-	-	-	Scan all data for level IV report	
1608742-01	OL-2453-01	45	40	-	-	-	Scan all data for level IV report	
1608742-03	OL-2453-02	45	40	-	-	-	Scan all data for level IV report	
1608742-04	OL-2453-03	45	40	-	-	-	Scan all data for level IV report	
1608742-05	OL-2453-04	45	40	-	-	-	Scan all data for level IV report	
1608742-07	OL-2453-05	45	40	-	-	-	Scan all data for level IV report	
1608742-08	OL-2453-06	45	40	-	-	-	Scan all data for level IV report	
1608981-01	EB_083016_SW_QC	45	40	-	-	-	Scan all data - Level IV	
1608981-02	EB_083016_SW_QC Dissolved	45	40	-	-	-	Scan all data - Level IV	
1608981-03	WQ_1b-c_083016_SW_10	45	40	-	-	-	Scan all data - Level IV	
1608981-04	WQ_1b-c_083016_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	
1608981-05	WQ-2-C_083016_SW_10	45	40	-	-	-	Scan all data - Level IV	
1608981-06	WQ-2-C_083016_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	
1608981-07	WQ-3-L_083016_SW_10	45	40	-	-	-	Scan all data - Level IV	
1608981-08	WQ-3-L_083016_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	
1608981-09	WQ_FPT_083016_SW_10	45	40	-	-	-	Scan all data - Level IV	
1608981-10	WQ_FPT_083016_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	

PREPARATION BENCH SHEET

F609484

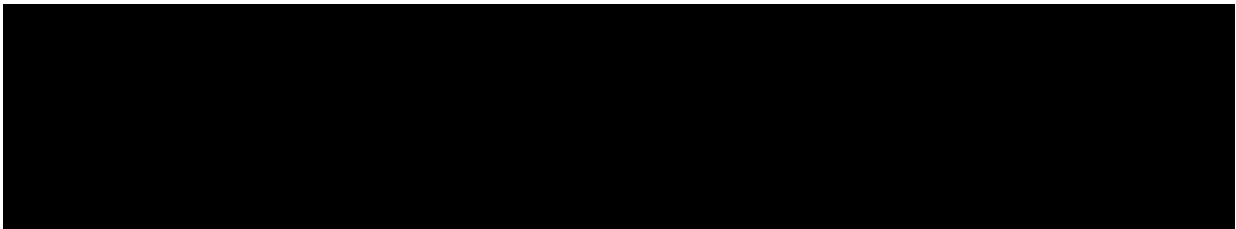
Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/22/2016

1608981-11	WQ-ECH_082916_SW_10	45	40	-	-	-	Scan all data - Level IV
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PREPARATION BENCH SHEET

Rw 27001
9/23/16

F609484

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/22/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609484-BLK1	Blank	45	40					1.25x
F609484-BLK2	Blank	45	40					1.25x
F609484-BLK3	Blank	45	40					1.25x
F609484-BS1	Blank Spike	45	40	1603908	45			1.25x
F609484-BSD1	Blank Spike Dup	45	40	1603908	45			1.25x
F609484-DUP1	Duplicate [1608741-01]	45	40					1.25x
F609484-MS1	Matrix Spike [1608742-05]	45	40	1603908	45			1.25x
F609484-MS2	Matrix Spike [1608981-01]	45	40	1603908	45			1.25x
F609484-MSD1	Matrix Spike Dup [1608742-05]	45	40	1603908	45			1.25x
F609484-MSD2	Matrix Spike Dup [1608981-01]	45	40	1603908	45			1.25x

Standard ID(s): 1603908
Description: MHg New Primary 1.0 ng/mL CAL

Expiration: 19-Oct-16 00:00

Reagent ID(s): 1605512, 1605513
Description: APDC, 0.5% Distillation Dilute (Made Daily)

Expiration: 21-Mar-17 00:00

160466 5166
M 9/23/16
1604614
1605520

PREPARATION BENCH SHEET

F609484

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/22/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608741-01	OL-2446-01	45	40	-	-	-	Scan all data for level IV report	1.25x
1608741-02	OL-2446-02	45	40	-	-	-	Scan all data for level IV report	1.25x
1608741-03	OL-2446-03	45	40	-	-	-	Scan all data for level IV report	1.25x
1608742-01	OL-2453-01	45	40	-	-	-	Scan all data for level IV report	1.25x
1608742-03	OL-2453-02	45	40	-	-	-	Scan all data for level IV report	1.25x
1608742-04	OL-2453-03	45	40	-	-	-	Scan all data for level IV report	1.25x
1608742-05	OL-2453-04	45	40	-	-	-	Scan all data for level IV report	1.25x
1608742-07	OL-2453-05	45	40	-	-	-	Scan all data for level IV report	1.25x
1608742-08	OL-2453-06	45	40	-	-	-	Scan all data for level IV report	1.25x
1608981-01	EB_083016_SW_QC	45	40	-	-	-	Scan all data - Level IV	1.25x
1608981-02	EB_083016_SW_QC Dissolved	45	40	-	-	-	Scan all data - Level IV	1.25x
1608981-03	WQ_1b-c_083016_SW_10	45	40	-	-	-	Scan all data - Level IV	1.25x
1608981-04	WQ_1b-c_083016_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	1.25x
1608981-05	WQ-2-C_083016_SW_10	45	40	-	-	-	Scan all data - Level IV	1.25x
1608981-06	WQ-2-C_083016_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	1.25x
1608981-07	WQ-3-L_083016_SW_10	45	40	-	-	-	Scan all data - Level IV	1.25x
1608981-08	WQ-3-L_083016_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	1.25x
1608981-09	WQ_FPT_083016_SW_10	45	40	-	-	-	Scan all data - Level IV	1.25x
1608981-10	WQ_FPT_083016_SW_10 Dissolved	45	40	-	-	-	Scan all data - Level IV	1.25x

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Date: 9/22/2016

PREPARATION BENCH SHEET

F609484

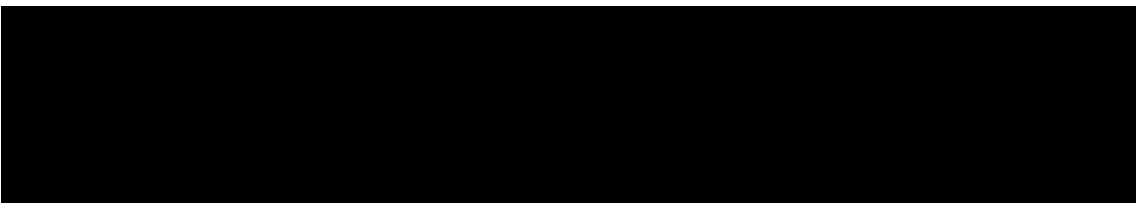
Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/22/2016

1608981-11	WQ-ECH_082916_SW_10	45	40	-	-	-	Scan all data - Level IV	1.25x
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Methyl Mercury Distillations (EPA 1630)

Name: Duyen Date: 9/22/16 Batch #: F609484 Sample Matrix: Water
 WO#: 1608741, 1608742, 1608981

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	F609484 Blank1	1.0	45	3.0	
Blk2	F609484 Blank2	1.0	45	3.0	
Blk3	F609484 Blank3	1.0	45	3.0	
BS1	F609484 BS1	1.0	45	3.0	
BS1	F609484 BS01	1.0	45	3.0	
Dup1	F609484 Dup1	1.0	45	3.0	
MS1	F609484 MS1	1.0	45	3.0	
MS01	F609484 MS01	1.0	45	3.0	
MS2	F609484 MS2	1.0	45	4.0	
MS02	F609484 MS02	1.0	45		
1	1608741-01 B	1.0	45	3.0	
2	1608741-02 B	1.0	45	3.0	
3	1608741-03 B	1.0	45	4.0	
4	1608742-01 B	1.0	45	4.0	
5	9/22/16 or 1608742-02 B	1.0	45		
5	^{9/22/16} 1608742-03 B	1.0	45	3.0	
6	1608742-04 B	1.0	45	3.0	
7	1608742-05 B	1.0	45	3.0	
8	1608742-07 B	1.0	45	3.0	
9	1608742-08 B	1.0	45	4.0	
10	1608981-01 B	1.0	45	5.0	
11	1608981-02 B	1.0	45	5.0	
12	1608981-03 B	1.0	45	5.0	
13	1608981-04 B	1.0	45	5.0	
14	1608981-05 B	1.0	45	4.0	
15	1608981-06	1.0	45	3.0	
16	1608981-07	1.0	45	4.0	
17	1608981-08	1.0	45	4.0	
18	1608981-09	1.0	45	3.0	
19	^{9/22/16} 1608981-10	1.0	45	4.0	
20	1608981-11	1.0	45	4.0	
				9/22/16	6.8

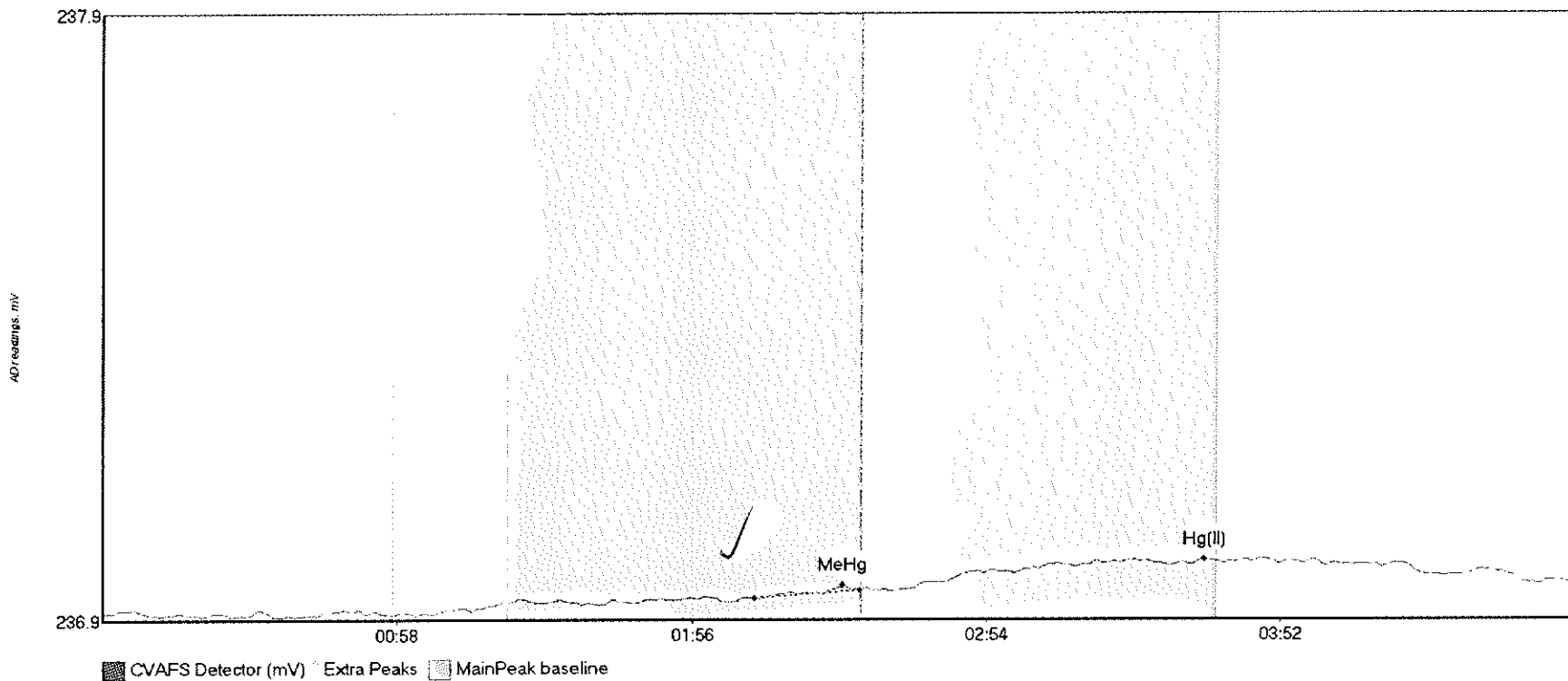
Spike ID: 1603908
 Spike Amount: 45 µL
 Spike Witness: R 9/22/16
 Balance #: 2
 Calibrated? Yes No
 Pipette #: CJ17087
 Cal. Date: 9/21/16
 Pipette #: N27707
 Cal. Date: 9/22/16
 Pipette #: 1224486
 Cal. Date: 9/22/16
 APDC ID: 1605512
 HCl ID: 1605513

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: 120.7
 Unit 2: 122.
 Unit 3: 120.2
 Unit 4: 120.3
 Unit 5: 122.
 Unit 6: 122.

Comments:
 Dupl. source
 1608741-01 B
 MS1. MS01
 1608742-05 B
 MS2 MS02
 1608981-01 B

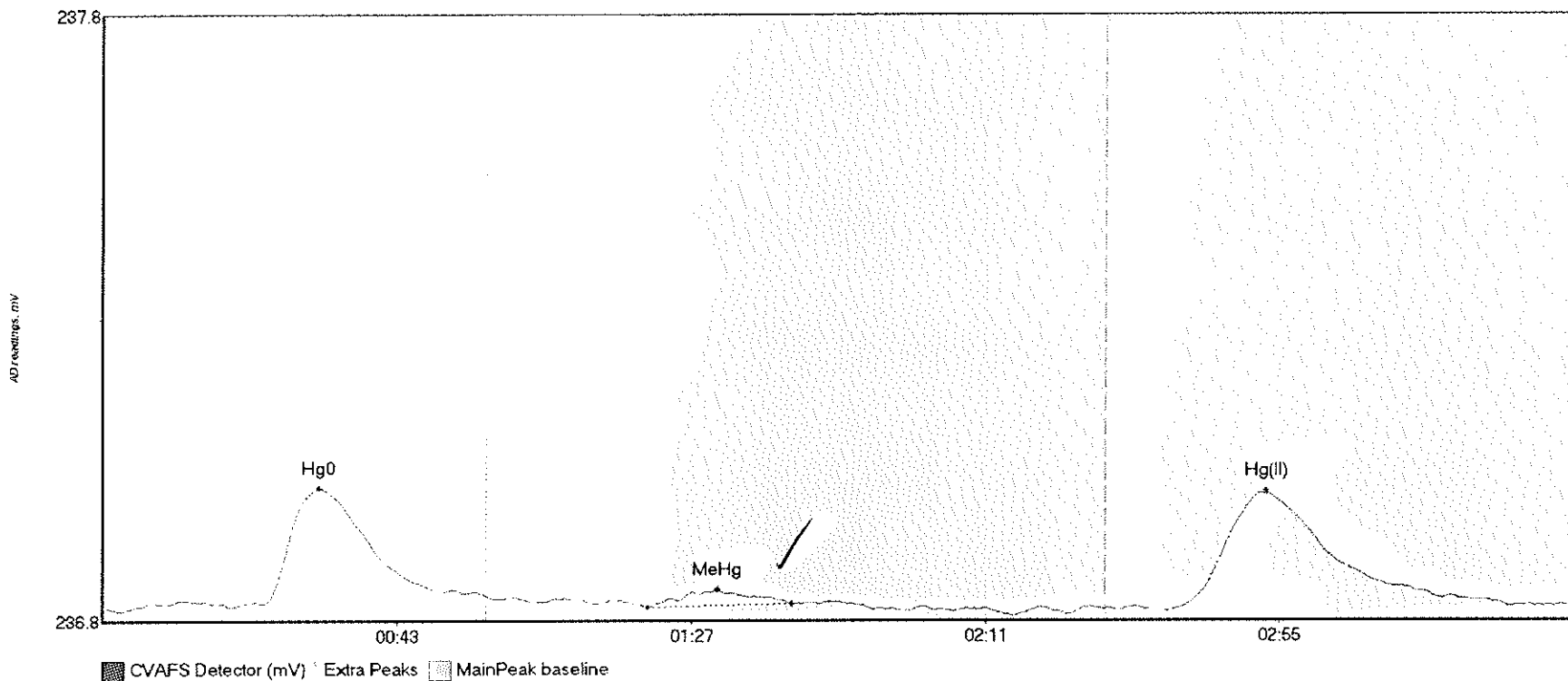
#1: Clean



- ALL CHROMATOGRAMS REVIEWED 9-23-16 DMW

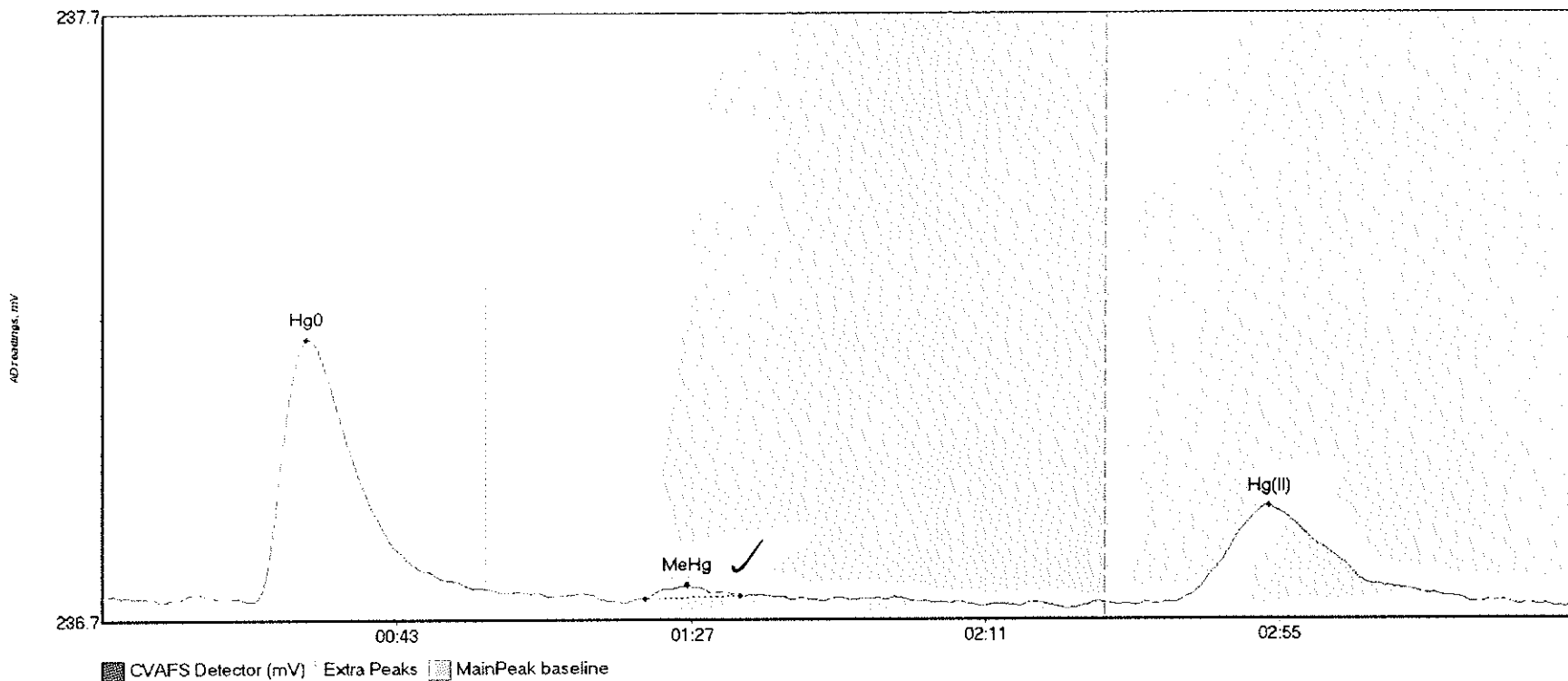
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
Clean MeHg	0.625	128.7	149.8	236.95	236.96	146.3	0.021	OK	236.9261	0.00	0.05	
Clean Hg(II)	6.553	159.4	219.0	236.97	237.01	217.7	0.049	OK	236.9261	0.00	0.05	

#2: WS



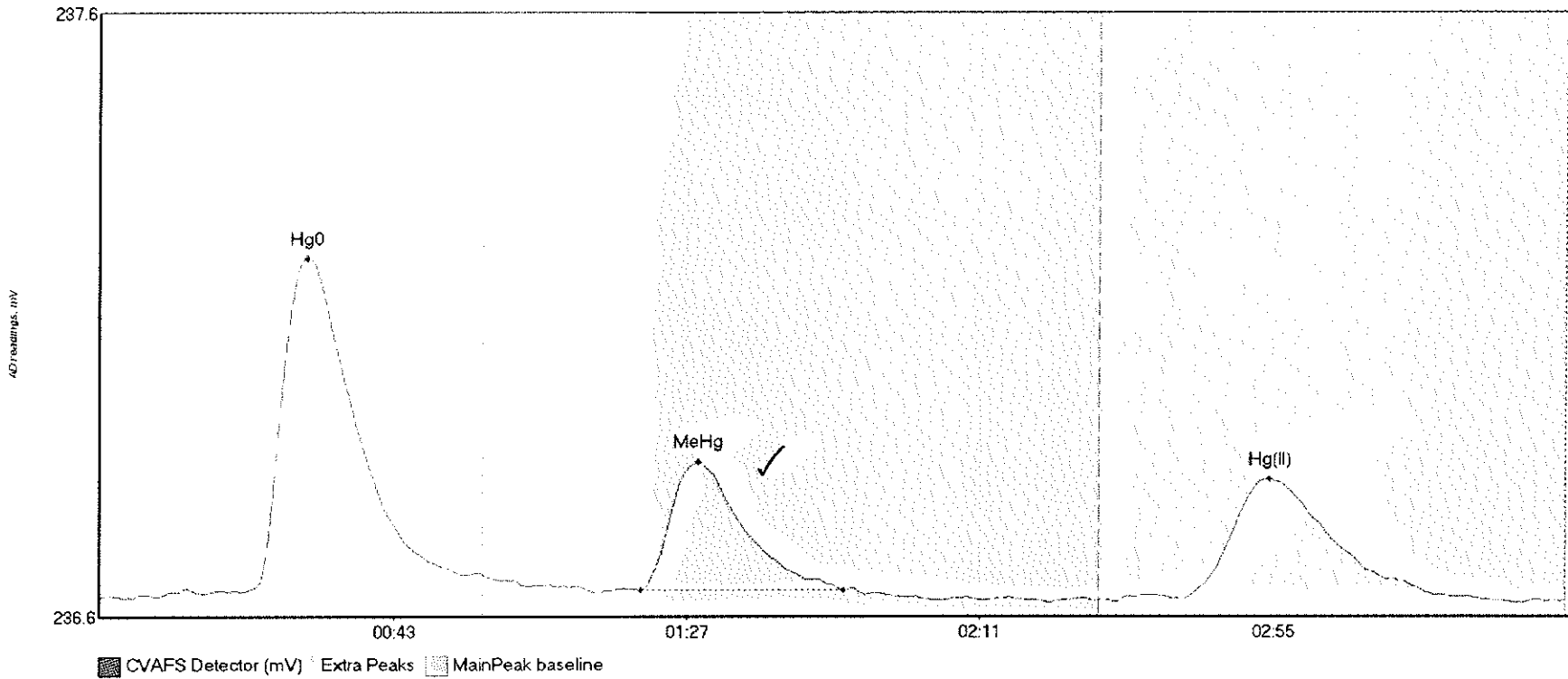
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	25.712	19.3	57.5	236.84	236.85	32.3	0.197	CF	236.8326	0.00	0.01	
WS MeHg	3.096	81.5	103.0	236.83	236.84	91.9	0.029	OK	236.8326	0.00	0.01	
WS Hg(II)	35.817	159.3	210.4	236.83	236.84	174.1	0.195	OK	236.8326	0.00	0.01	

#3: SEQ-IBL1



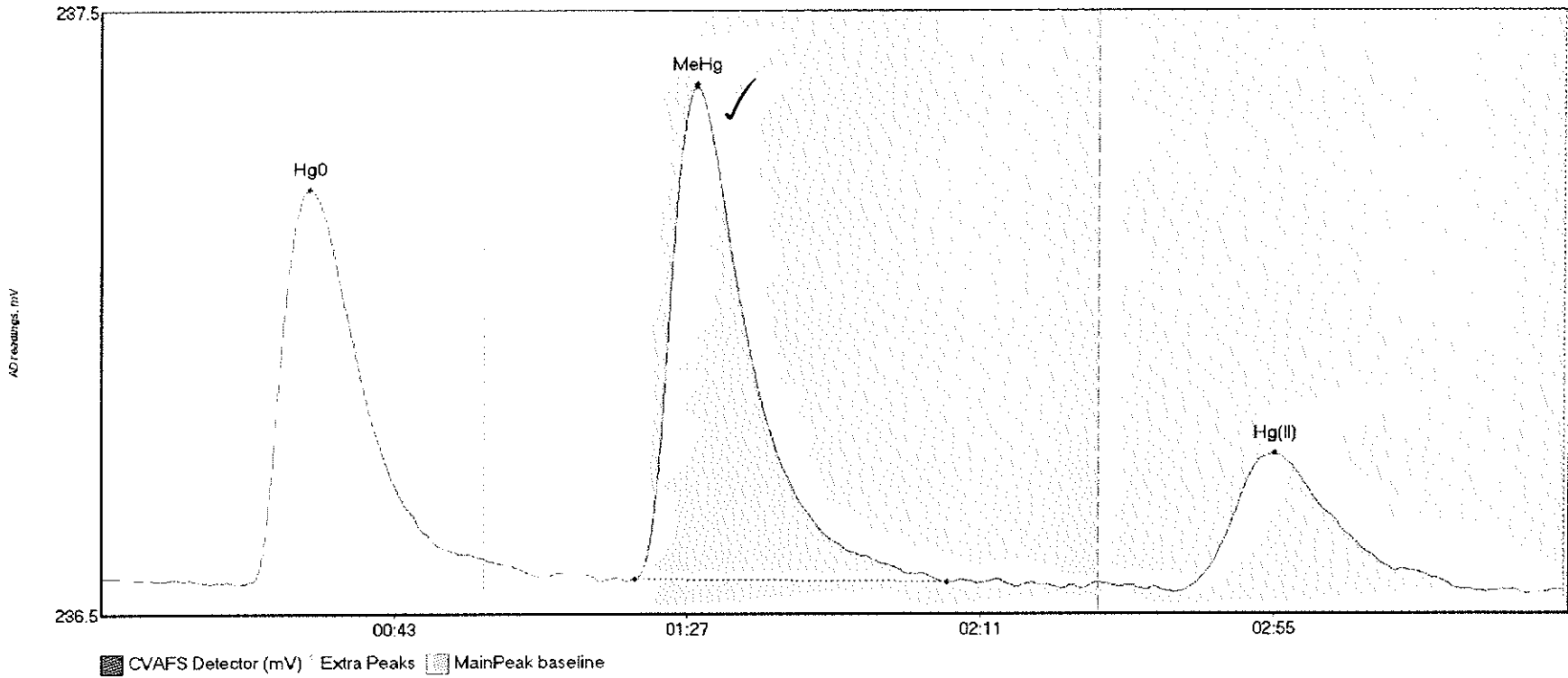
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-IBL1 Hg0	53.057	22.2	57.5	236.75	236.77	30.5	0.433	CT	236.7589	0.00	-0.02	
SEQ-IBL1 MeHg	1.680	81.0	95.3	236.75	236.76	87.3	0.022	OK	236.7589	0.00	-0.02	
SEQ-IBL1 Hg(II)	27.691	160.2	204.5	236.75	236.75	174.4	0.159	OK	236.7589	0.00	-0.02	

#4: SEQ-CAL1



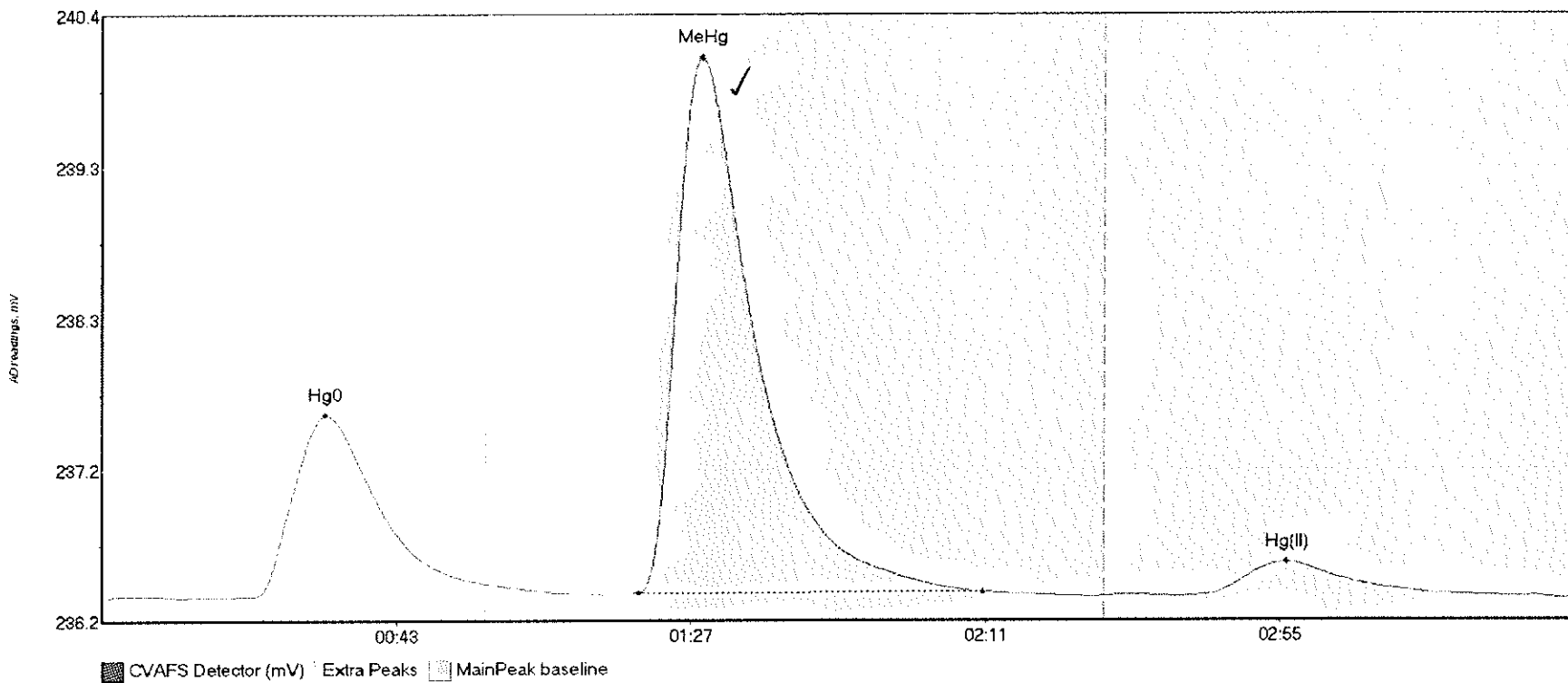
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL1 Hg0	67.285	15.8	57.5	236.64	236.67	30.9	0.558	CT	236.6397	0.00	-0.01	
SEQ-CAL1 MeHg	26.473	81.2	111.5	236.65	236.65	89.8	0.212	OK	236.6397	0.00	-0.01	
SEQ-CAL1 Hg(II)	33.825	162.5	206.3	236.64	236.64	175.4	0.199	OK	236.6397	0.00	-0.01	

#5: SEQ-CAL2



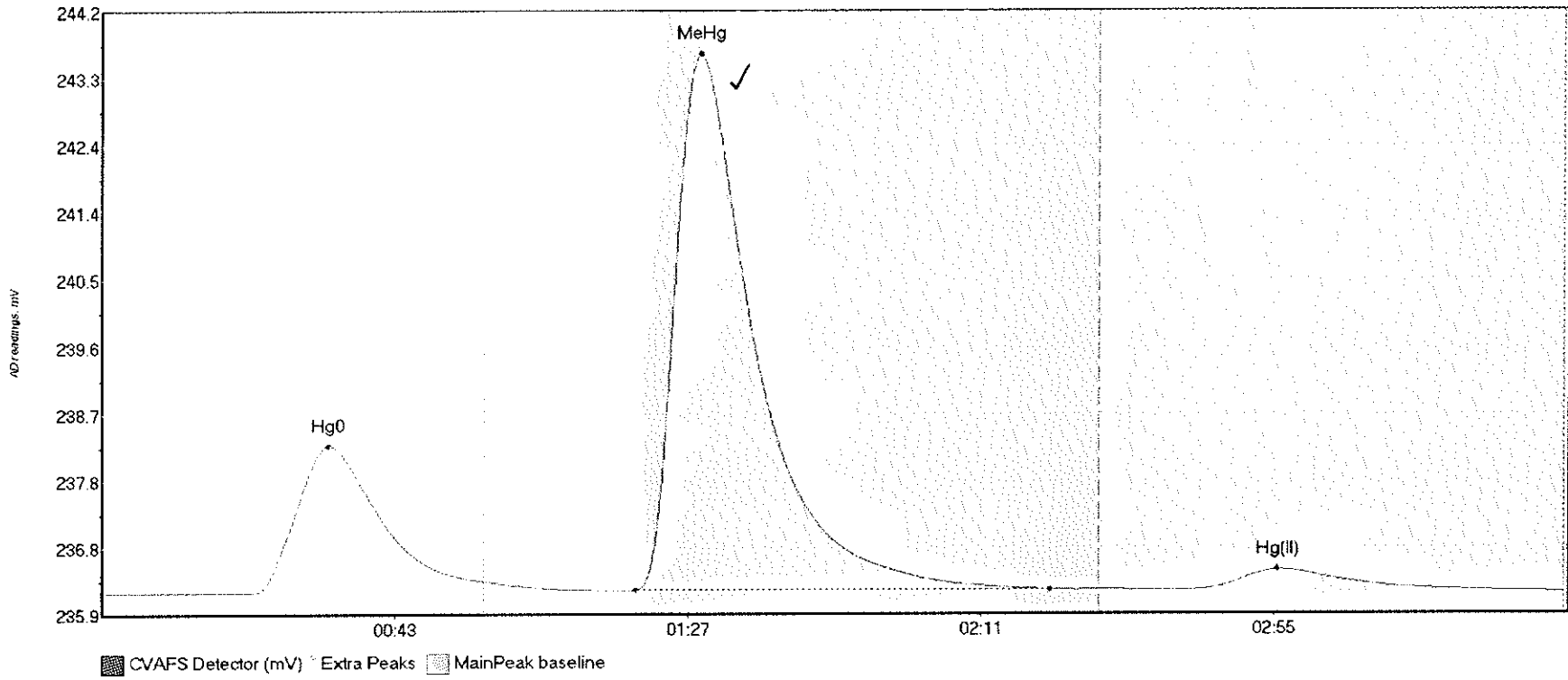
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL2 Hg0	85.152	21.5	57.5	236.51	236.55	31.4	0.654	CT	236.5198	0.00	-0.02	
SEQ-CAL2 MeHg	111.665	80.1	127.0	236.52	236.51	89.4	0.817	OK	236.5198	0.00	-0.02	
SEQ-CAL2 Hg(II)	40.158	161.4	204.8	236.50	236.50	176.2	0.230	OK	236.5198	0.00	-0.02	

#6: SEQ-CAL3



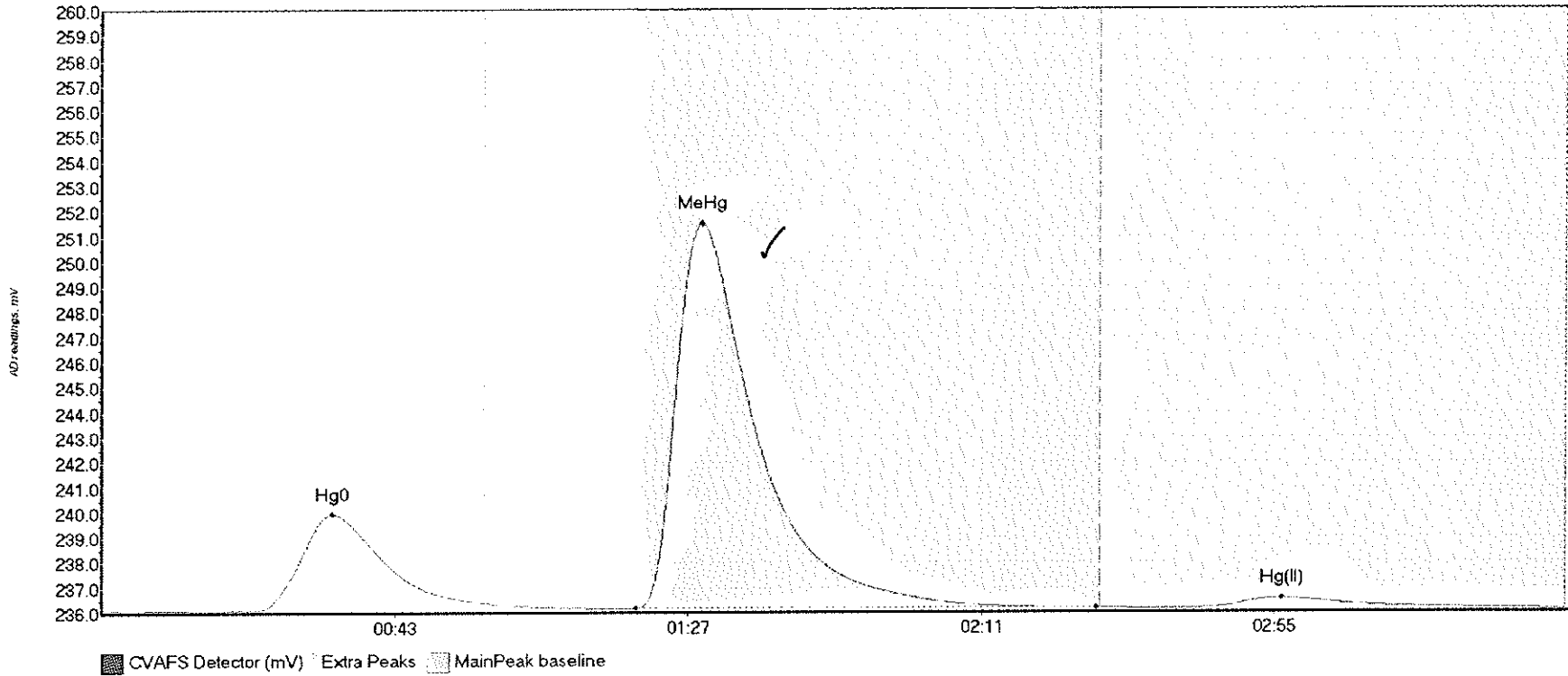
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
SEQ-CAL3 Hg0	171.056	22.3	57.5	236.37	236.45	33.5	1.258	CT	236.3655	0.00	-0.01	
SEQ-CAL3 MeHg	510.841	80.1	131.6	236.39	236.40	89.7	3.705	OK	236.3655	0.00	-0.01	
SEQ-CAL3 Hg(II)	37.808	161.6	202.8	236.37	236.38	177.0	0.235	OK	236.3655	0.00	-0.01	

#7: SEQ-CAL4



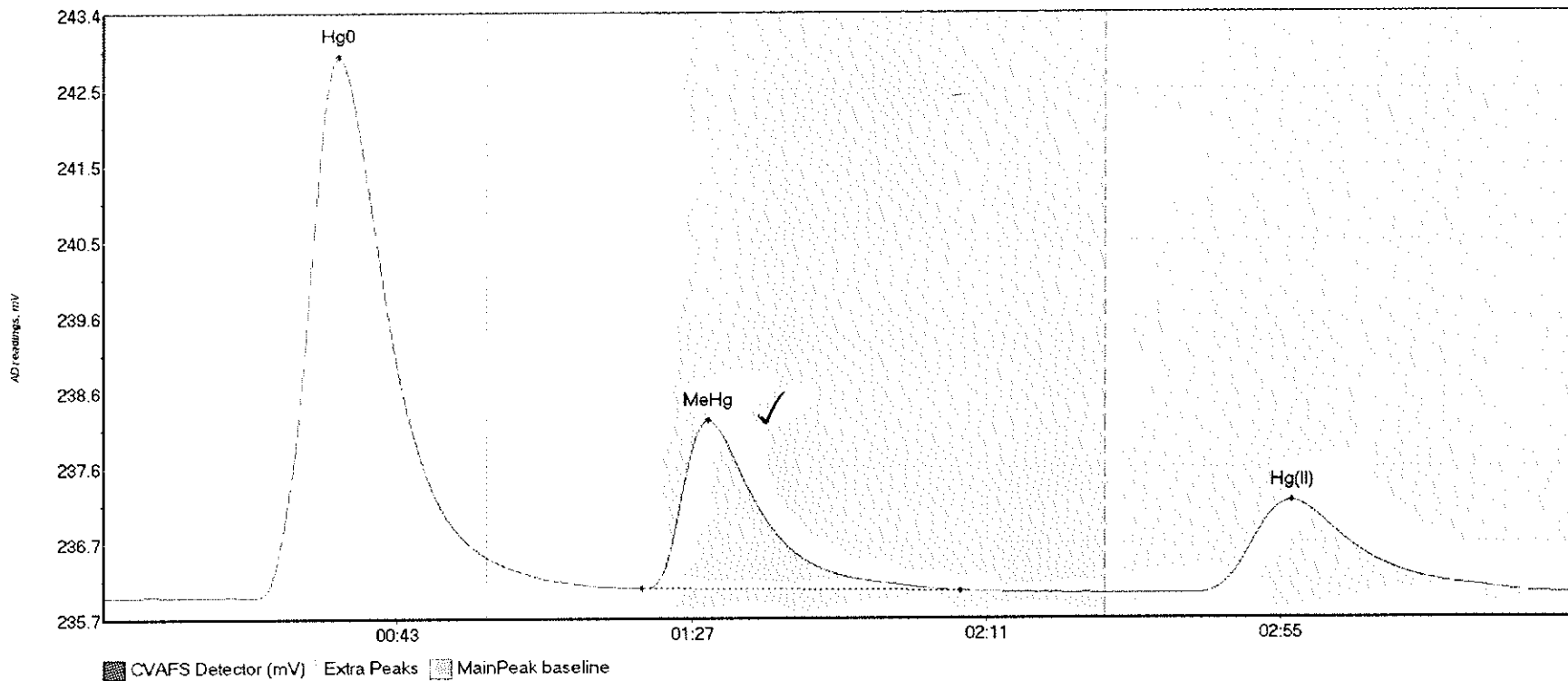
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL4 Hg0	270.134	22.5	57.5	236.22	236.37	34.2	2.024	CT	236.2269	0.00	0.00	
SEQ-CAL4 MeHg	1025.509	80.1	142.5	236.25	236.26	90.0	7.365	OK	236.2269	0.00	0.00	
SEQ-CAL4 Hg(II)	43.469	163.8	201.5	236.25	236.26	176.6	0.278	OK	236.2269	0.00	0.00	

#8: SEQ-CAL5



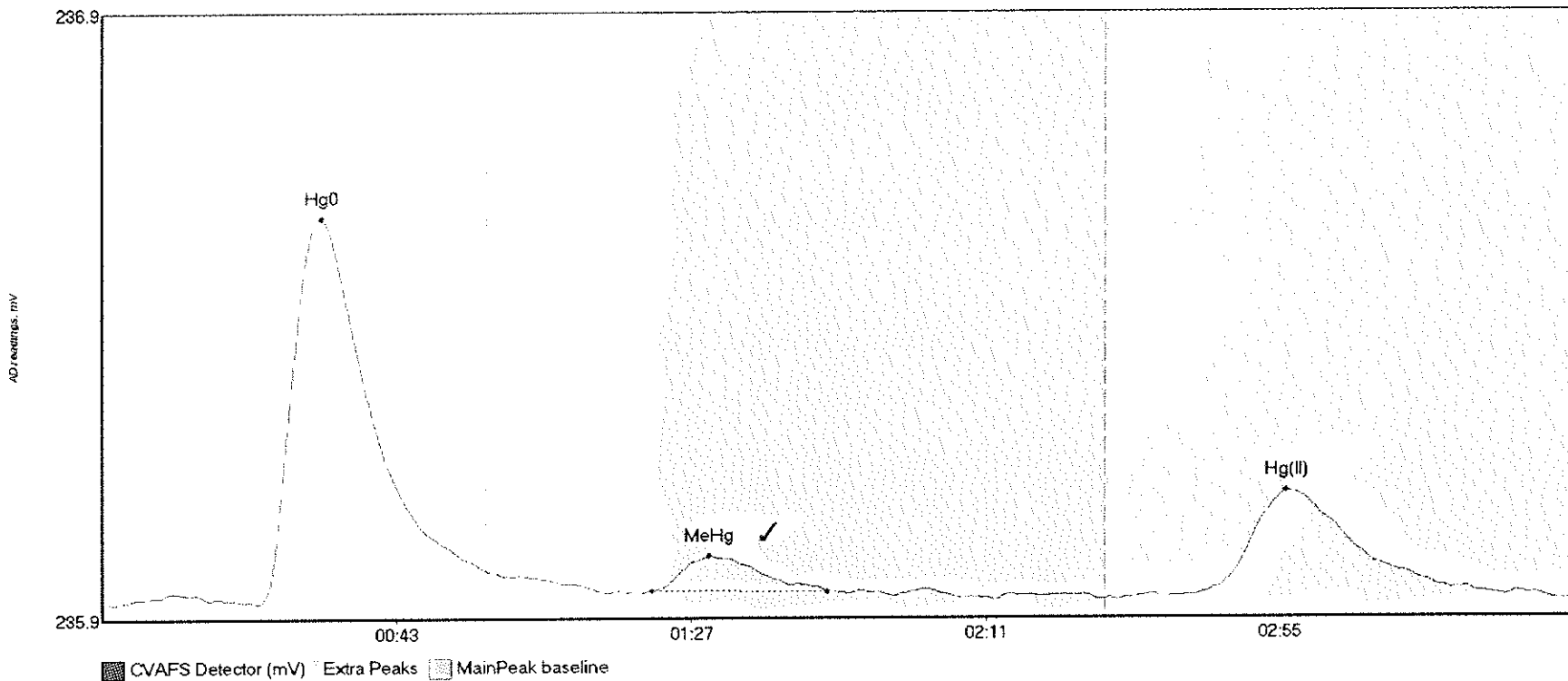
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL5 Hg0	506.960	22.0	57.5	236.09	236.38	34.7	3.842	CT	236.0946	0.00	0.04	
SEQ-CAL5 MeHg	2151.112	80.1	149.3	236.16	236.19	90.1	15.351	OK	236.0946	0.00	0.04	
SEQ-CAL5 Hg(II)	61.018	163.2	201.9	236.16	236.18	177.2	0.386	OK	236.0946	0.00	0.04	

#9: SEQ-ICV1



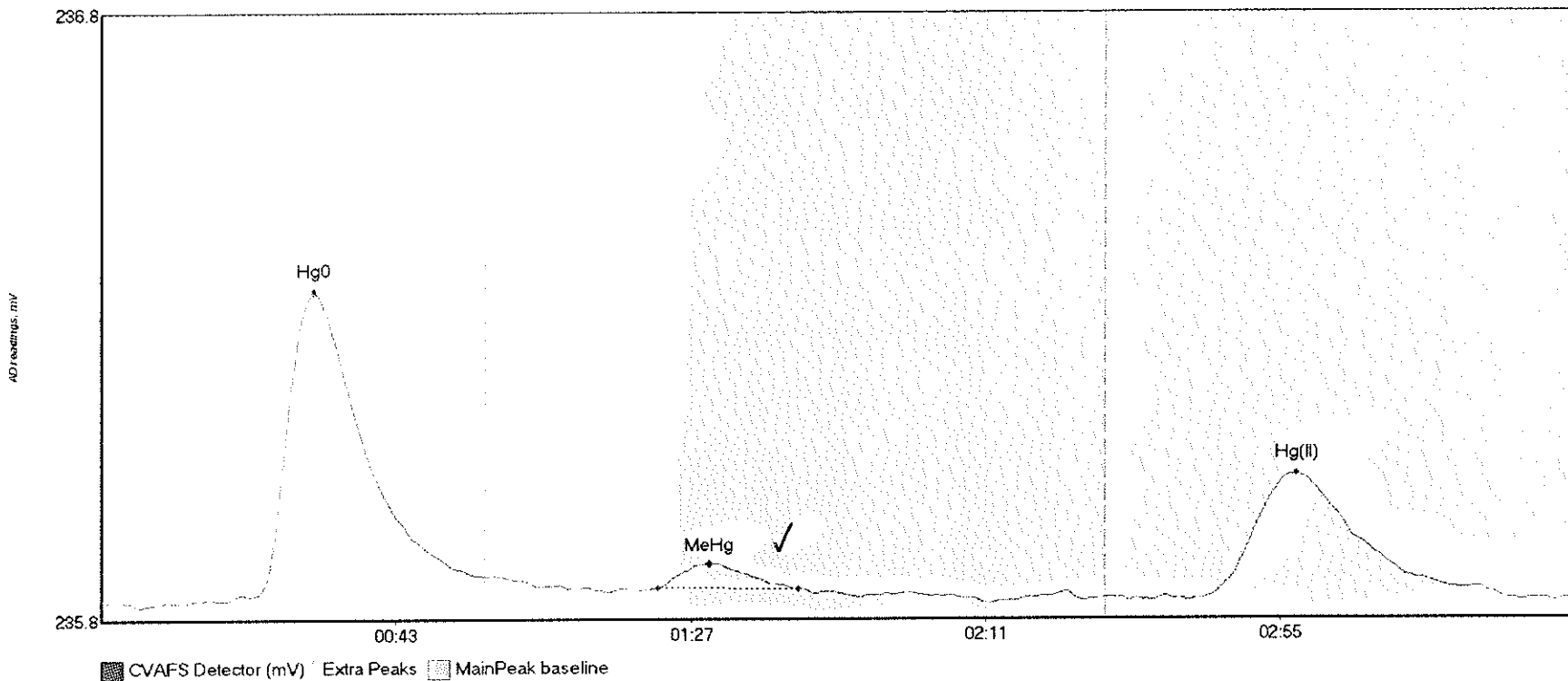
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICV1 Hg0	887.293	22.4	57.5	235.99	236.48	35.3	6.886	CT	235.9884	0.00	0.04	
SEQ-ICV1 MeHg	291.447	80.4	128.1	236.09	236.06	90.5	2.144	OK	235.9884	0.00	0.04	
SEQ-ICV1 Hg(II)	216.172	162.6	217.7	236.02	236.03	177.7	1.177	OK	235.9884	0.00	0.04	

#10: SEQ-ICB1



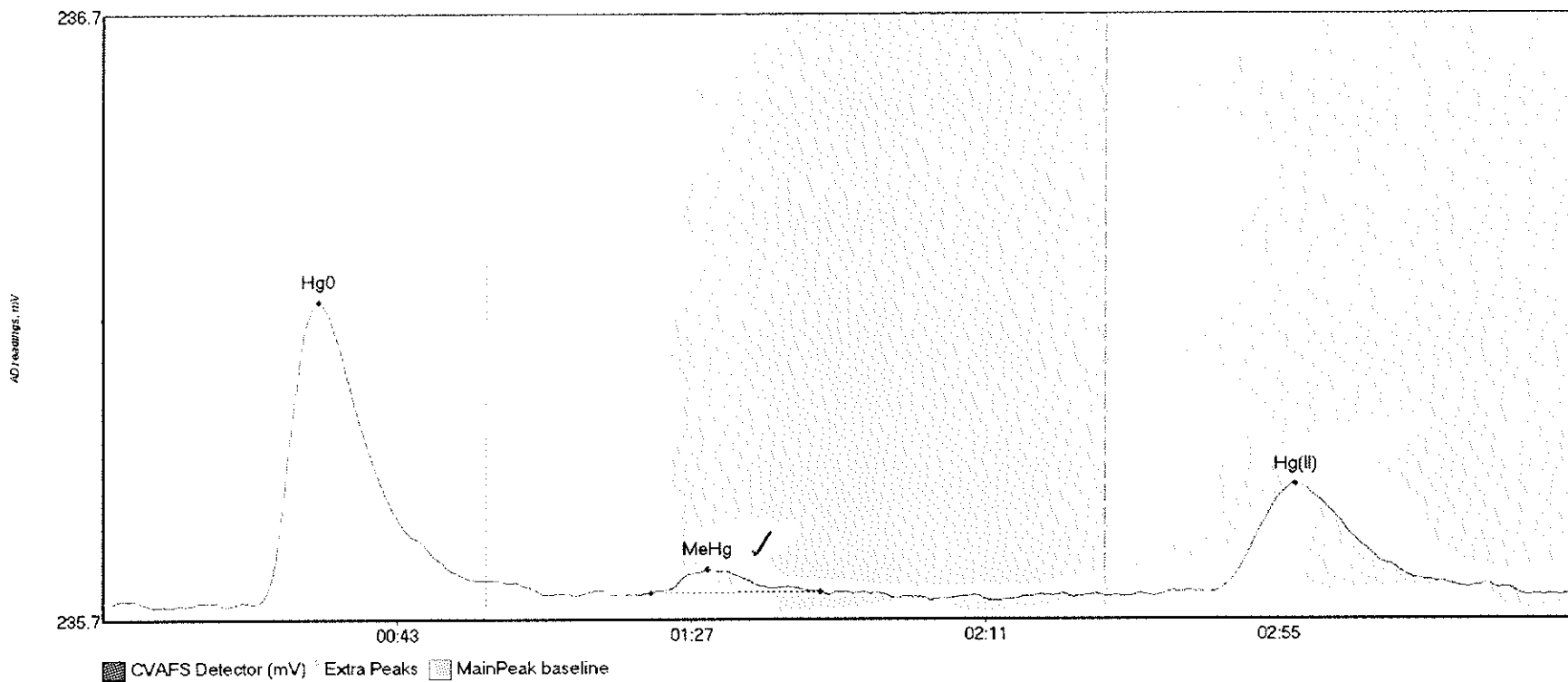
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
SEQ-ICB1 Hg0	81.495	23.1	57.5	235.88	235.94	32.8	0.636	CT	235.8846	0.00	0.00	
SEQ-ICB1 MeHg	7.638	82.2	108.4	235.90	235.90	90.8	0.058	OK	235.8846	0.00	0.00	
SEQ-ICB1 Hg(II)	30.070	161.5	209.8	235.89	235.89	177.0	0.173	OK	235.8846	0.00	0.00	

#11: F609484-BLK1



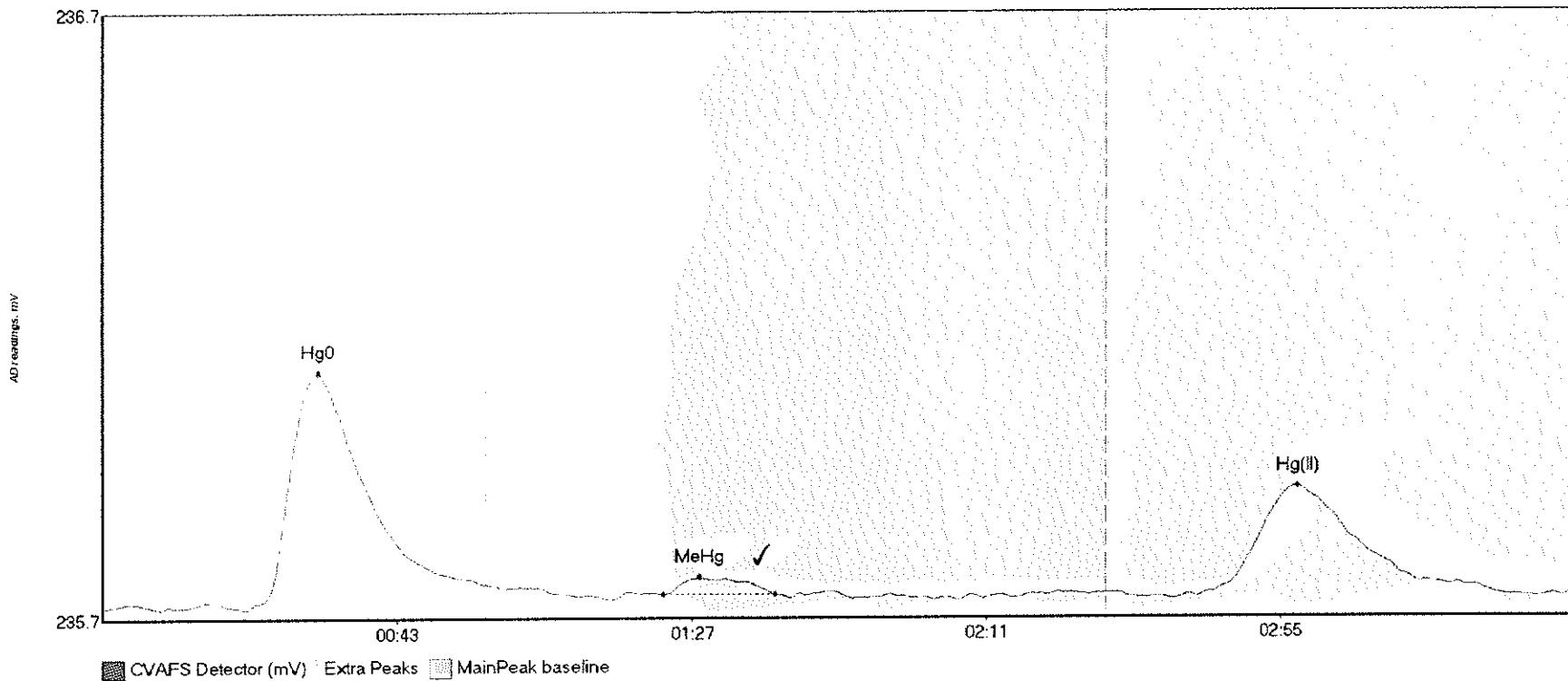
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609484-BLK1 Hg	63.604	18.2	57.5	235.81	235.85	31.7	0.509	CT	235.8108	0.00	0.00	
F609484-BLK1 Me	4.585	83.0	104.1	235.83	235.83	90.8	0.040	OK	235.8108	0.00	0.00	
F609484-BLK1 Hg	35.992	164.2	209.6	235.82	235.82	178.5	0.205	OK	235.8108	0.00	0.00	

#12: F609484-BLK2



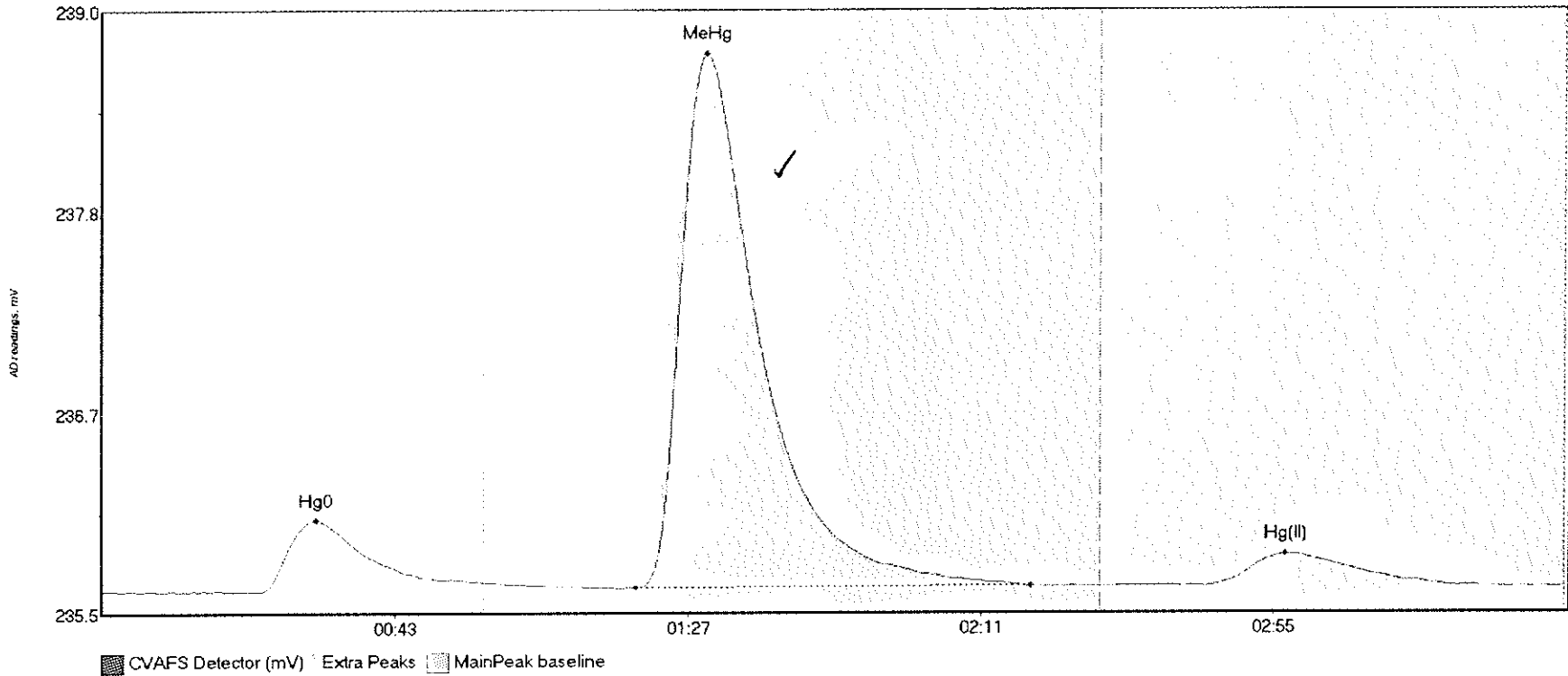
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
F609484-BLK2 Hg	63.390	22.7	56.6	235.73	235.77	32.1	0.500	OK	235.7361	0.00	0.01	
F609484-BLK2 Me	4.286	82.0	107.5	235.75	235.75	90.4	0.038	OK	235.7361	0.00	0.01	
F609484-BLK2 Hg	33.135	157.2	213.2	235.75	235.75	178.5	0.185	OK	235.7361	0.00	0.01	

#13: F609484-BLK3



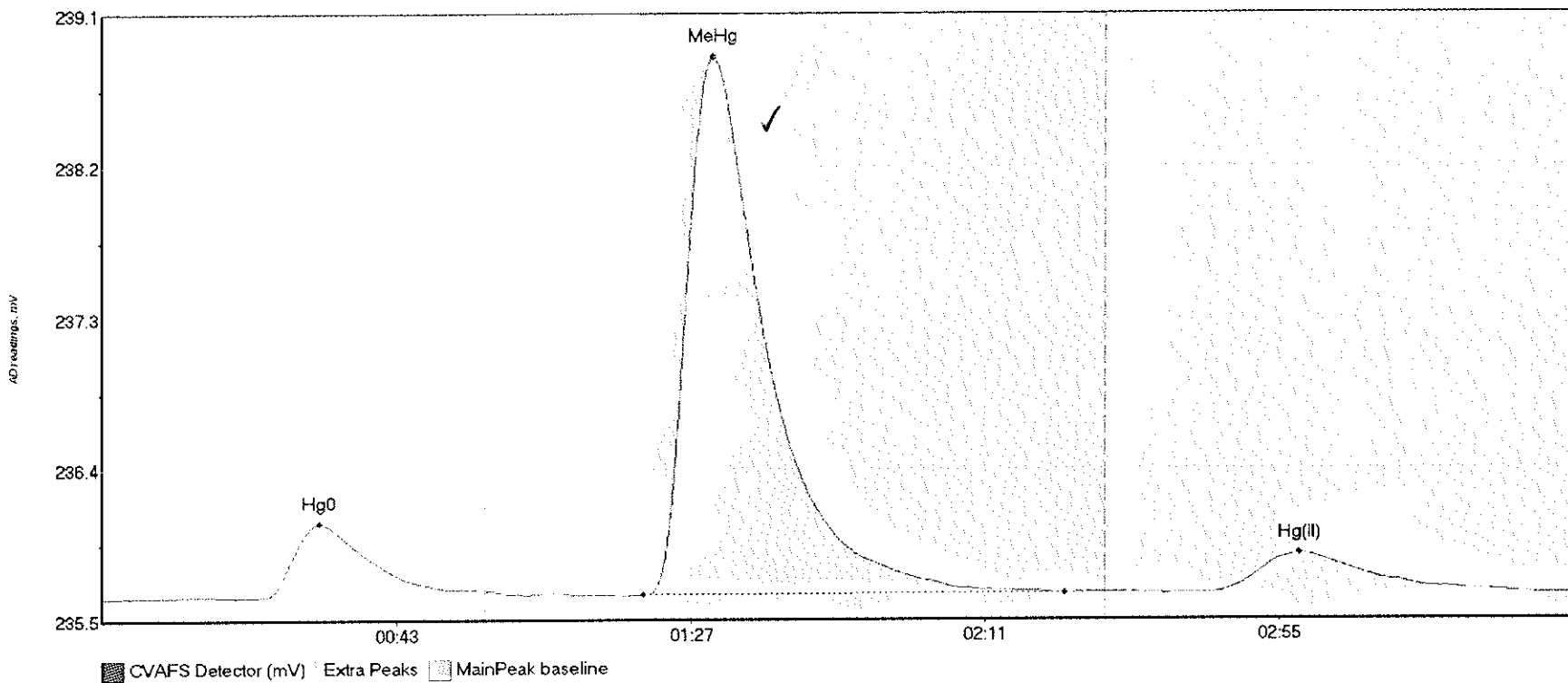
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609484-BLK3 Hg	47.981	21.3	57.5	235.68	235.72	32.1	0.390	CT	235.6851	0.00	0.02	
F609484-BLK3 Me	2.964	83.8	100.5	235.71	235.71	89.2	0.027	OK	235.6851	0.00	0.02	
F609484-BLK3 Hg	29.204	165.6	209.5	235.71	235.70	178.6	0.173	OK	235.6851	0.00	0.02	

#14: F609484-BS1



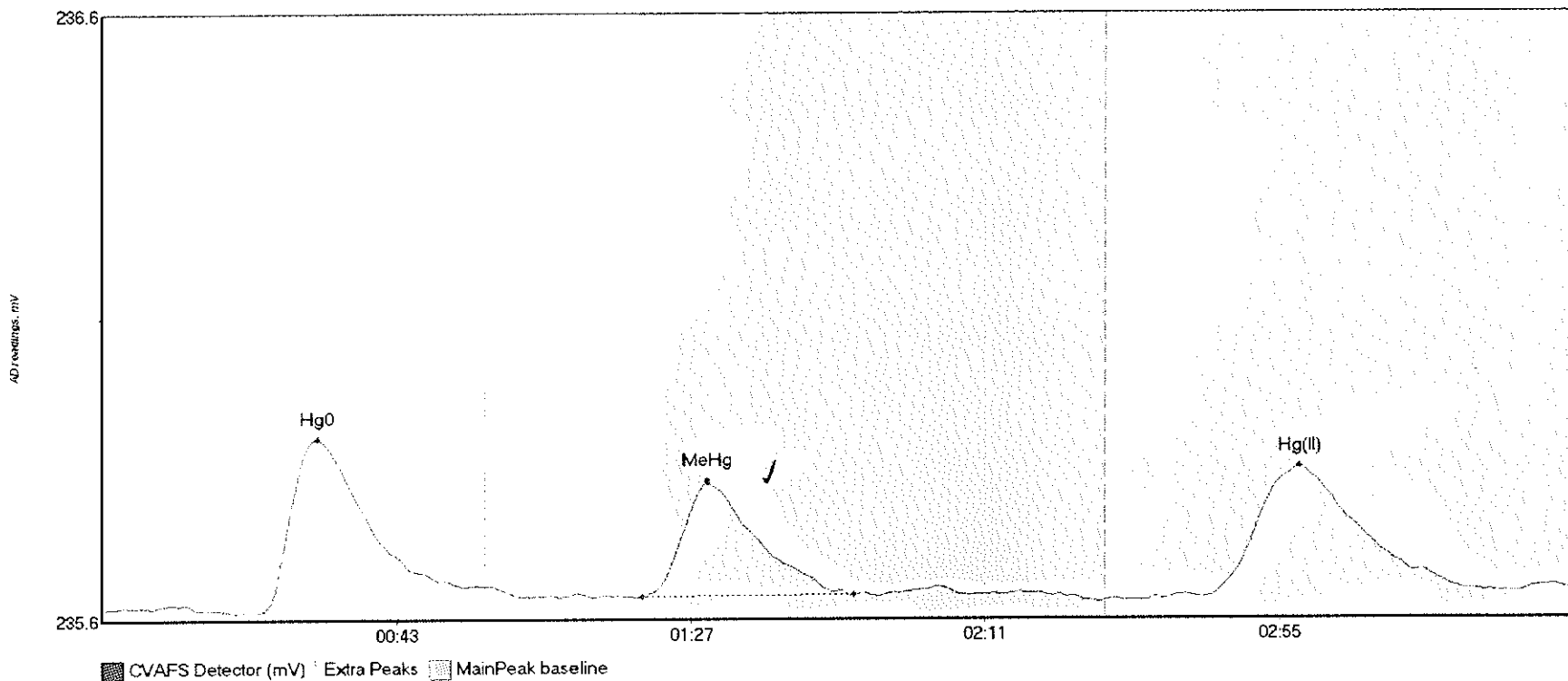
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609484-BS1 Hg0	50.797	23.2	57.5	235.65	235.71	32.2	0.407	CP	235.6619	0.00	0.02	
F609484-BS1 MeH	420.936	80.1	139.4	235.68	235.68	90.8	3.034	OK	235.6619	0.00	0.02	
F609484-BS1 Hg(	30.815	165.7	203.1	235.68	235.69	177.9	0.180	OK	235.6619	0.00	0.02	

#15: F609484-BSD1



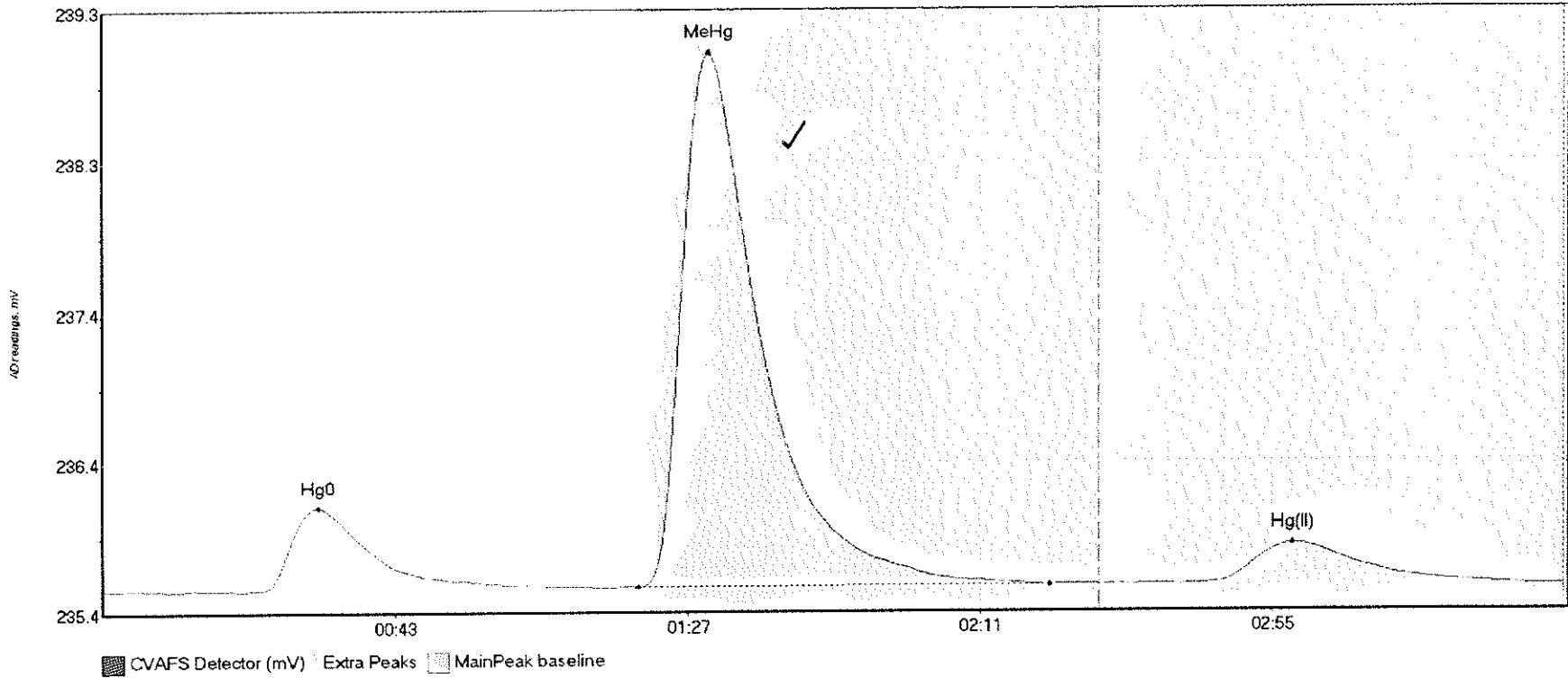
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609484-BSD1 Hg	53.446	21.3	57.5	235.62	235.66	32.4	0.440	CT	235.6196	0.00	0.03	
F609484-BSD1 Me	440.731	80.9	143.9	235.64	235.65	91.2	3.184	OK	235.6196	0.00	0.03	
F609484-BSD1 Hg	41.649	165.0	212.2	235.65	235.65	179.1	0.232	OK	235.6196	0.00	0.03	

#16: F609484-DUP1



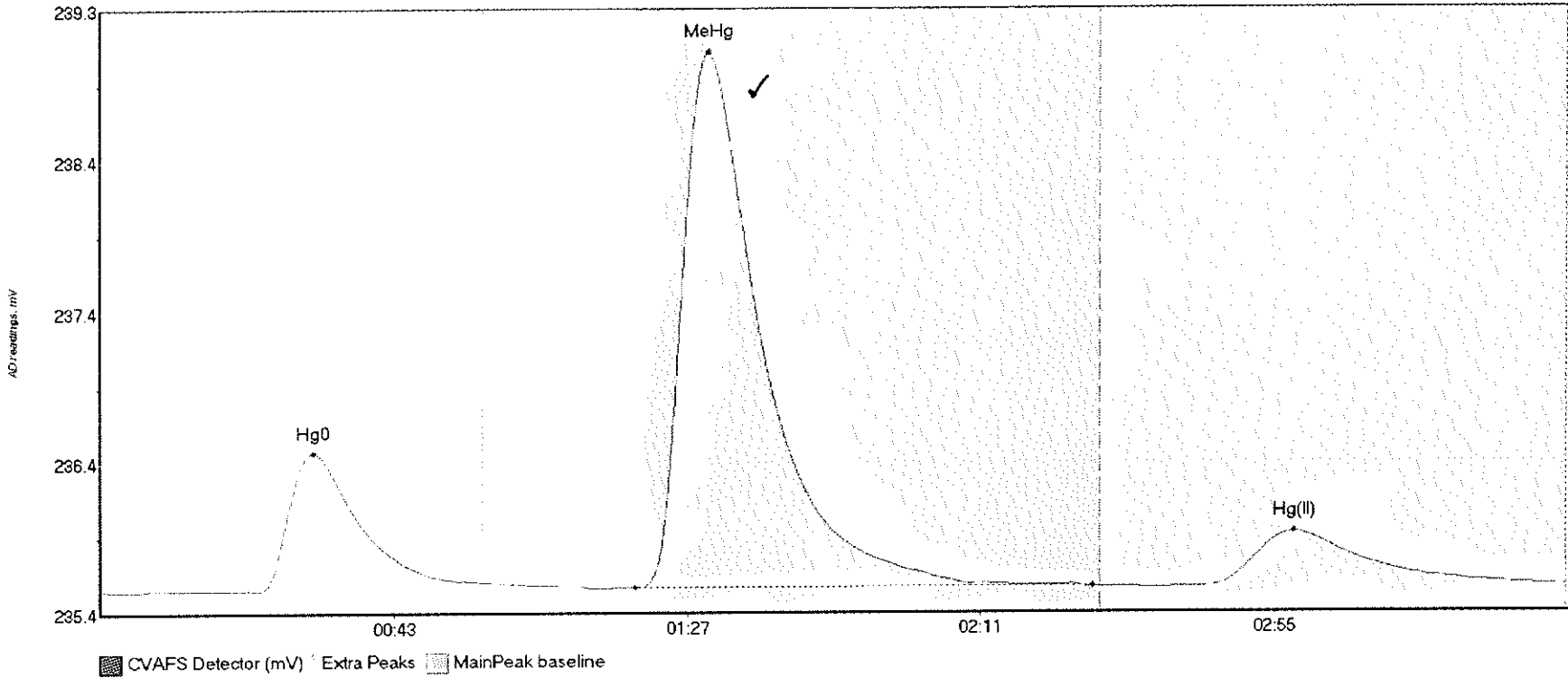
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609484-DUP1 Hg	34.444	23.4	54.2	235.60	235.64	32.1	0.287	OK	235.6014	0.00	0.03	
F609484-DUP1 Me	23.889	80.7	112.4	235.62	235.62	90.4	0.189	OK	235.6014	0.00	0.03	
F609484-DUP1 Hg	37.543	164.4	211.3	235.62	235.63	179.1	0.216	OK	235.6014	0.00	0.03	

#17: F609484-MS1



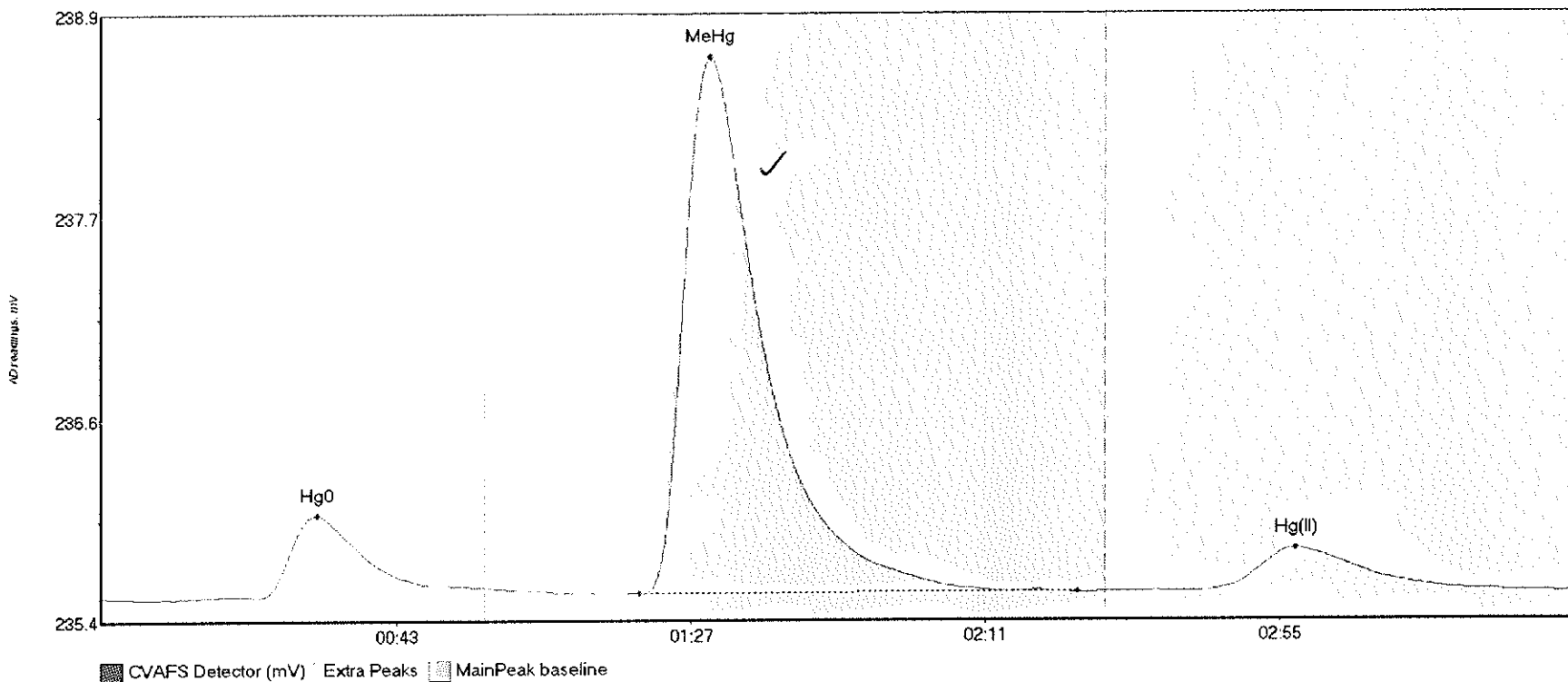
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
F609484-MS1 Hg0	66.027	23.1	57.5	235.57	235.62	32.4	0.538	CT	235.5758	0.00	0.02	
F609484-MS1 MeH	479.417	80.6	142.5	235.59	235.60	91.1	3.452	OK	235.5758	0.00	0.02	
F609484-MS1 Hg(	46.056	164.8	211.9	235.61	235.60	179.1	0.257	OK	235.5758	0.00	0.02	

#18: F609484-MSD1



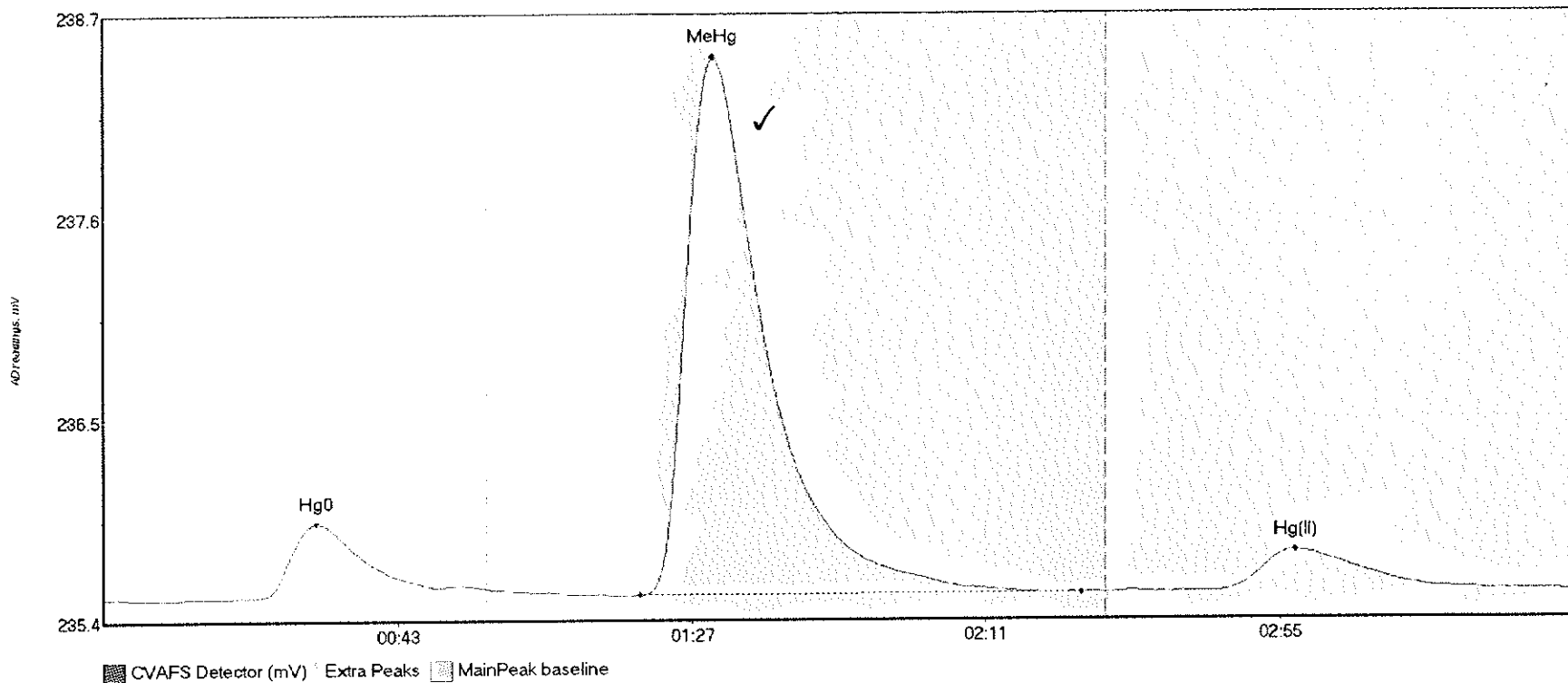
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609484-MSD1 Hg	104.822	23.4	57.5	235.57	235.62	31.8	0.894	CT	235.5684	0.00	0.03	
F609484-MSD1 Me	481.266	80.2	148.7	235.59	235.59	91.1	3.463	OK	235.5684	0.00	0.03	
F609484-MSD1 Hg	66.937	165.2	219.8	235.59	235.60	179.0	0.352	CT	235.5684	0.00	0.03	

#19: F609484-MS2



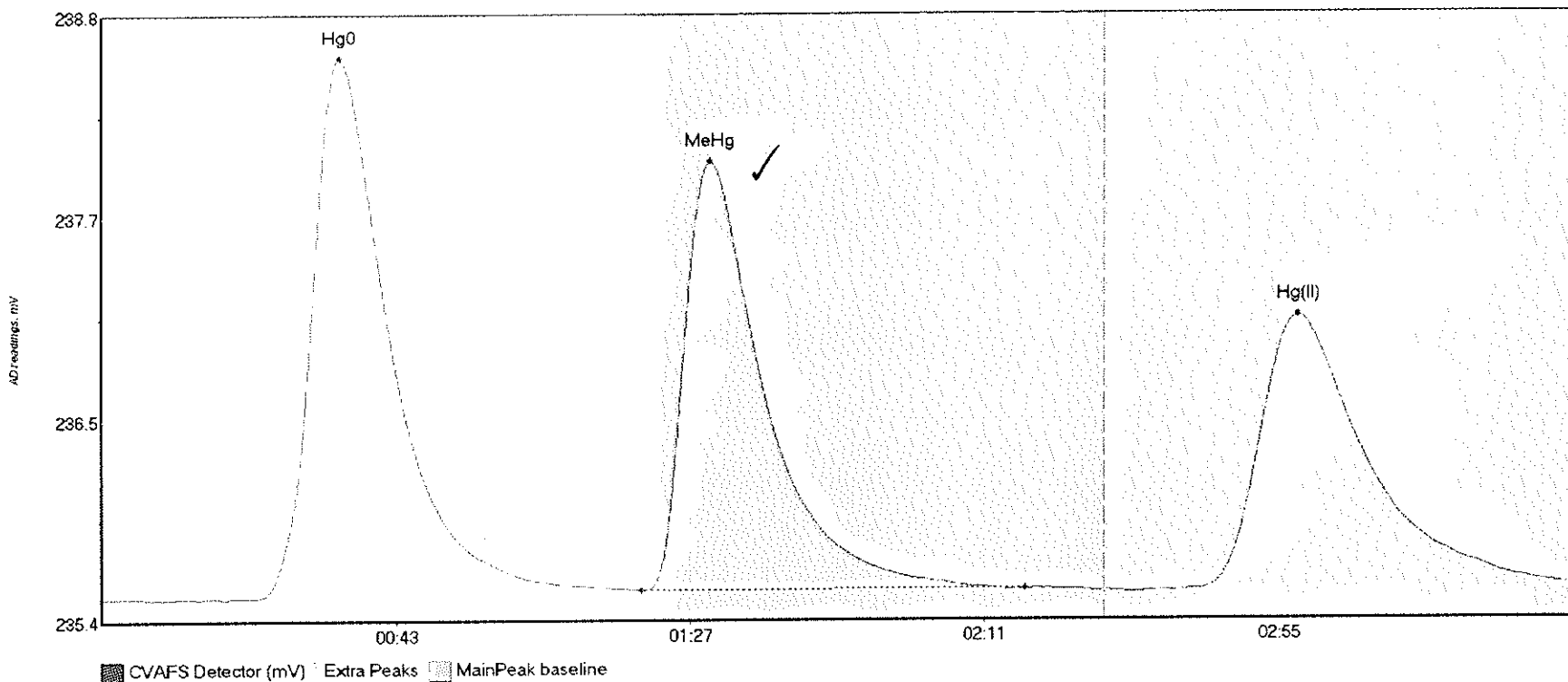
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609484-MS2 Hg0	54.146	23.4	57.5	235.56	235.60	32.1	0.466	CT	235.5519	0.00	0.03	
F609484-MS2 MeH	422.917	80.3	145.8	235.57	235.58	90.9	3.060	OK	235.5519	0.00	0.03	
F609484-MS2 Hg(I)	42.960	163.5	210.1	235.58	235.58	178.5	0.243	OK	235.5519	0.00	0.03	

#20: F609484-MSD2



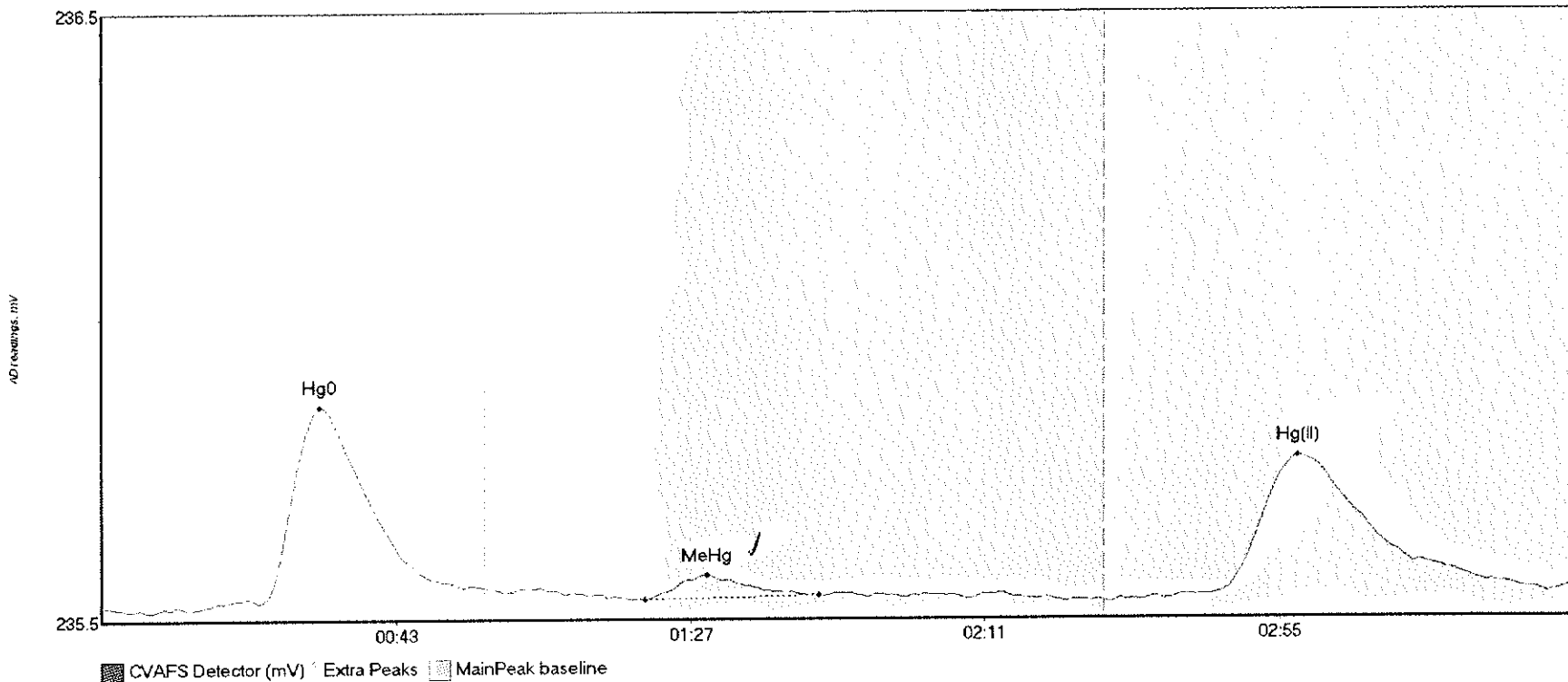
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
F609484-MSD2 Hg	47.352	23.2	57.5	235.54	235.59	31.8	0.398	CT	235.5406	0.00	0.02	
F609484-MSD2 Me	400.615	80.3	146.3	235.55	235.56	91.0	2.892	OK	235.5406	0.00	0.02	
F609484-MSD2 Hg	38.957	166.0	219.8	235.56	235.56	178.3	0.217	CT	235.5406	0.00	0.02	

#21: SEQ-CCV1



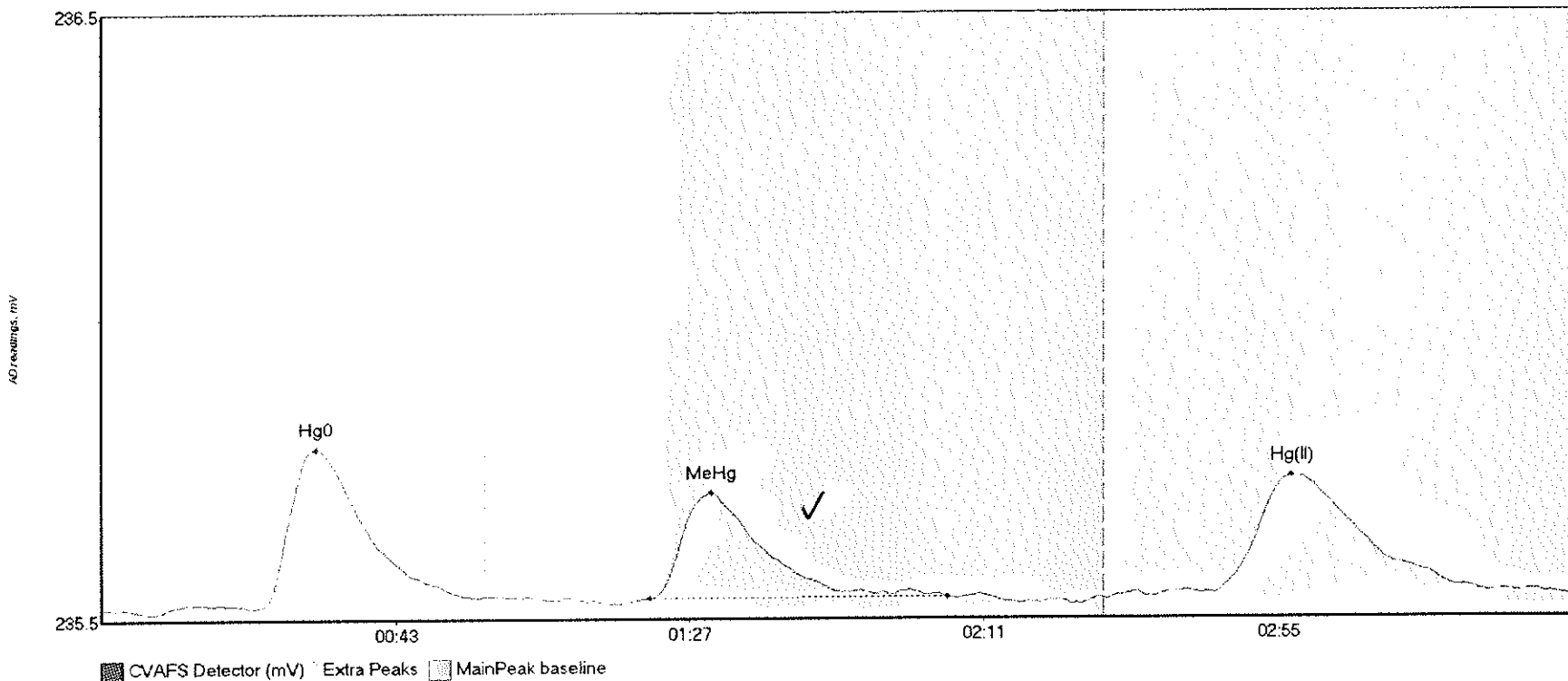
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0	371.282	23.0	57.5	235.53	235.73	35.4	3.063	CT	235.5289	0.00	0.07	
SEQ-CCV1 MeHg	335.936	80.8	138.2	235.57	235.57	91.0	2.438	OK	235.5289	0.00	0.07	
SEQ-CCV1 Hg(II)	284.167	160.4	219.8	235.56	235.60	178.9	1.559	CT	235.5289	0.00	0.07	

#22: SEQ-CCB1



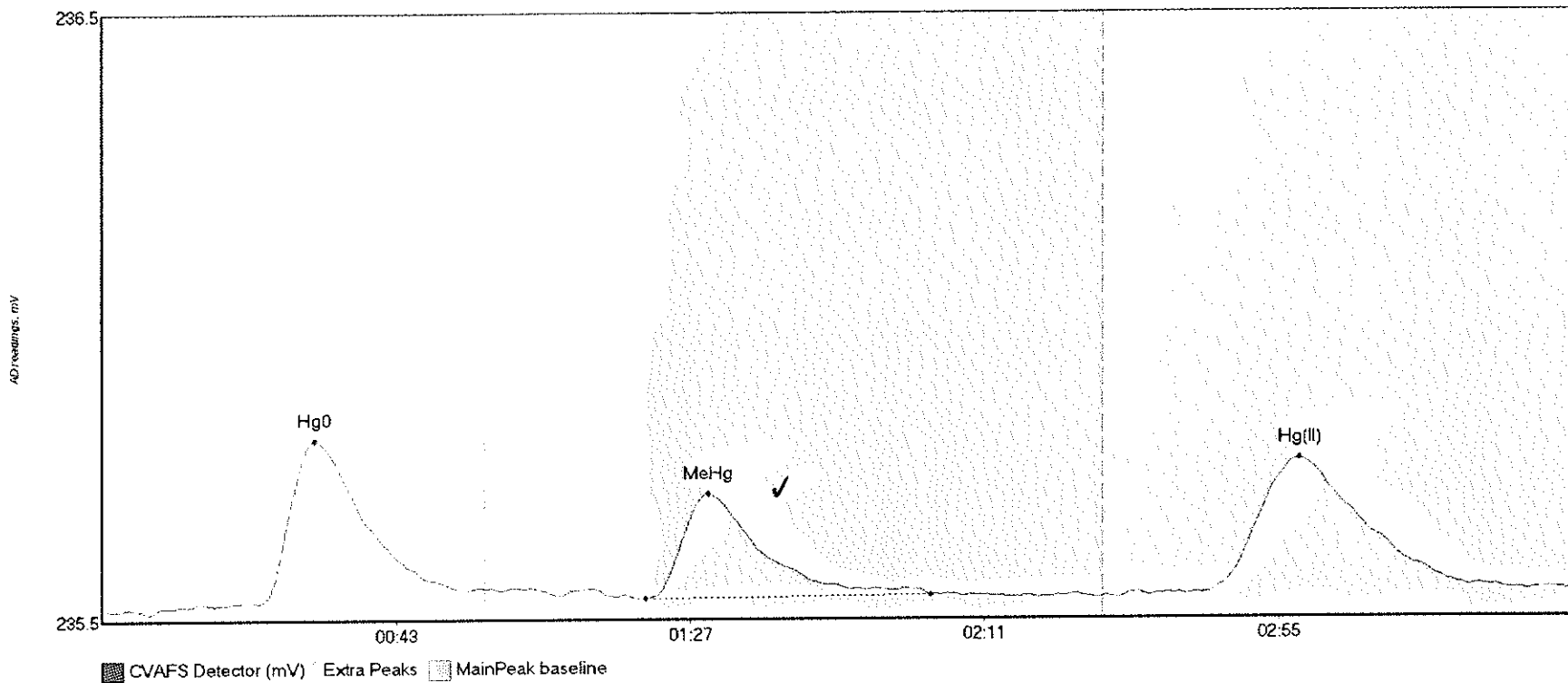
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB1 Hg0	40.623	14.7	57.5	235.52	235.55	32.6	0.332	CT	235.5190	0.00	0.03	
SEQ-CCB1 MeHg	4.533	81.3	107.2	235.53	235.53	90.4	0.041	OK	235.5190	0.00	0.03	
SEQ-CCB1 Hg(II)	44.592	158.9	216.2	235.53	235.54	178.8	0.235	OK	235.5190	0.00	0.03	

#23: 1608741-01



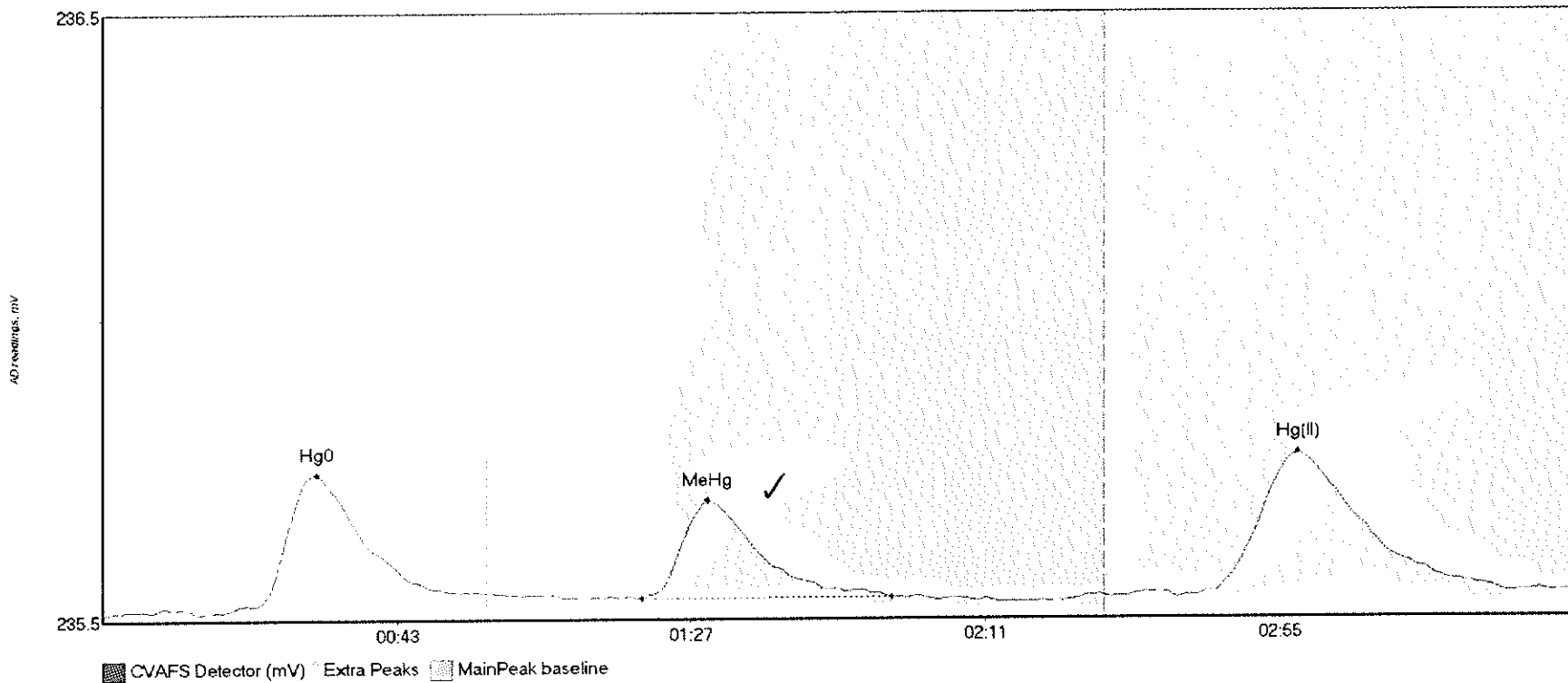
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608741-01 Hg0	32.961	22.9	56.0	235.52	235.54	32.1	0.264	OK	235.5242	0.00	0.02	
1608741-01 MeHg	24.024	82.2	126.6	235.54	235.54	91.3	0.175	OK	235.5242	0.00	0.02	
1608741-01 Hg(I)	37.103	157.4	218.8	235.54	235.54	178.0	0.199	OK	235.5242	0.00	0.02	

#24: 1608741-02



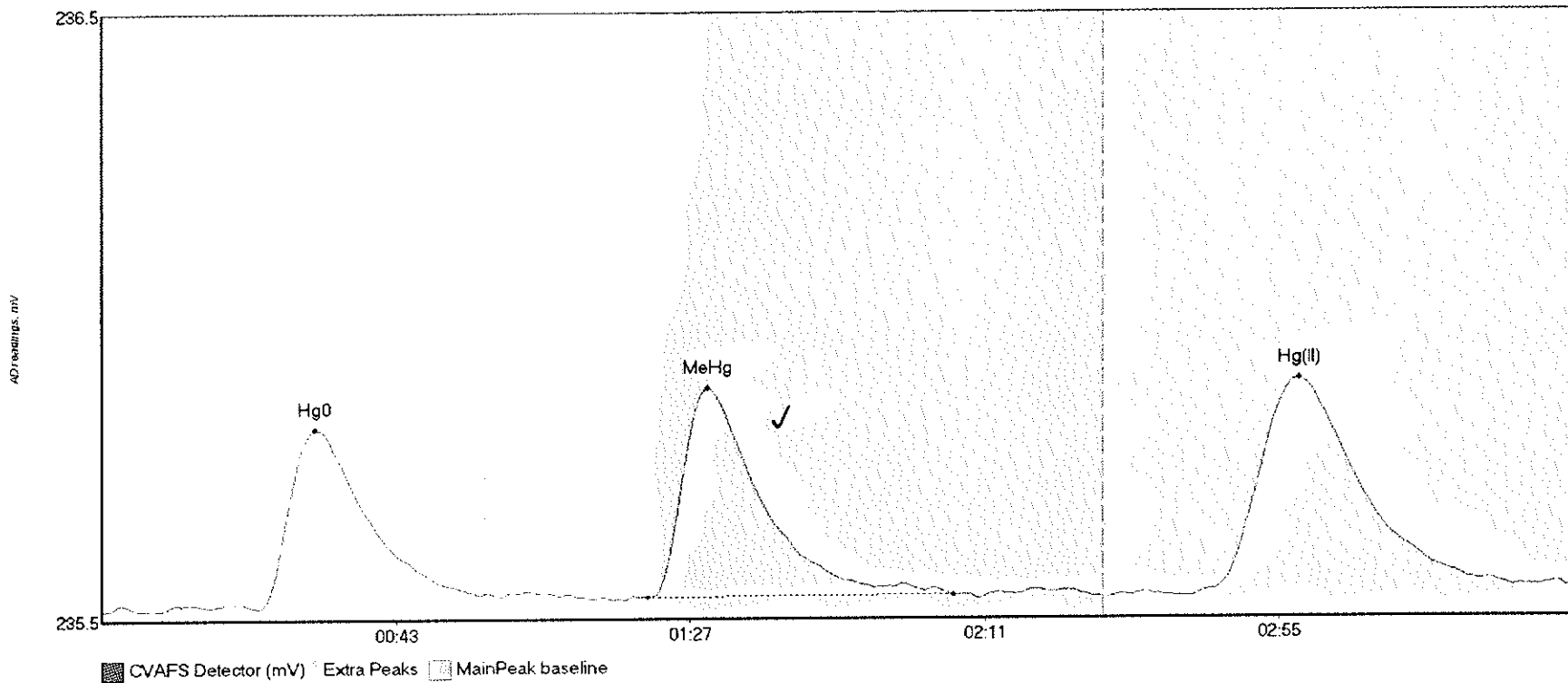
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608741-02 Hg0	32.518	10.7	53.8	235.51	235.54	31.9	0.276	OK	235.5104	0.00	0.03	
1608741-02 MeHg	23.382	81.4	124.0	235.53	235.53	90.7	0.173	OK	235.5104	0.00	0.03	
1608741-02 Hg(I)	39.733	165.4	219.8	235.54	235.54	179.2	0.220	CT	235.5104	0.00	0.03	

#25: 1608741-03



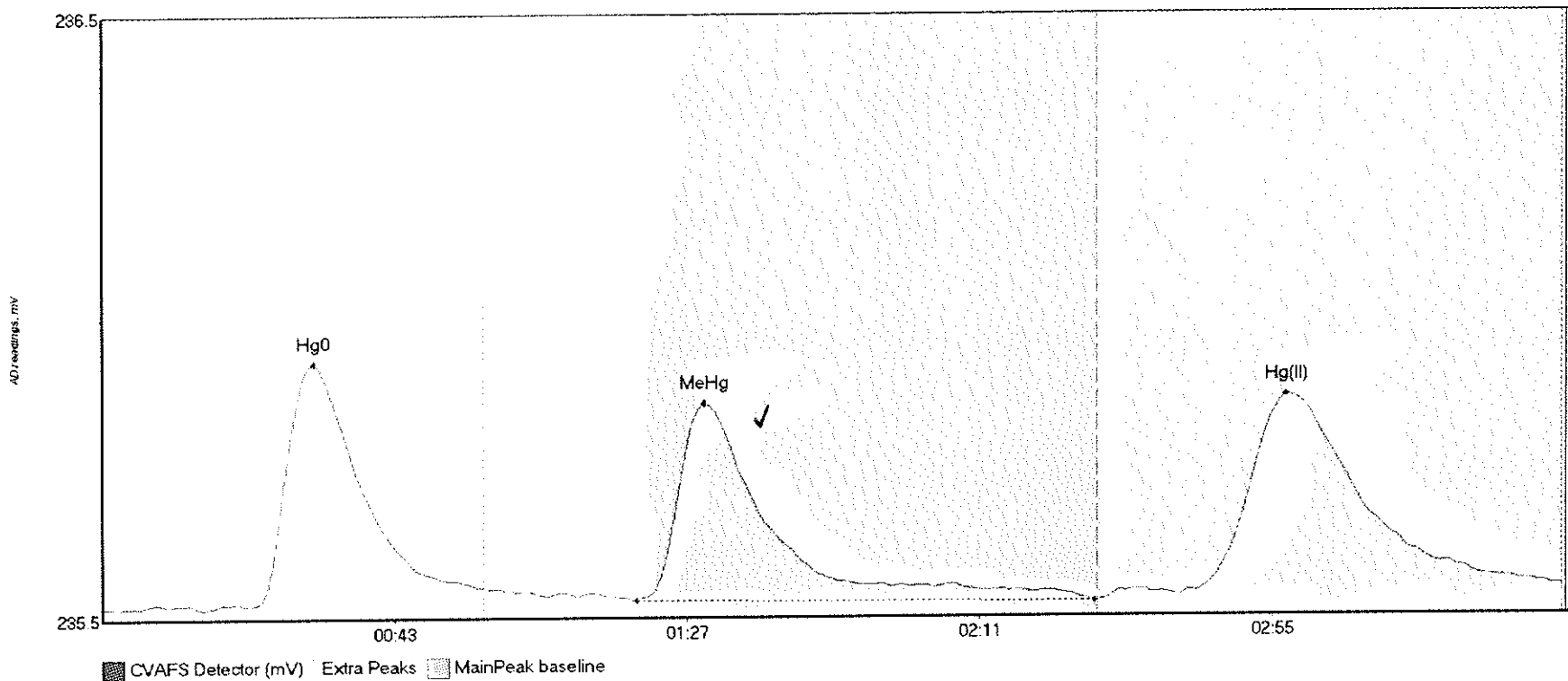
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608741-03 Hg0	26.990	17.9	53.3	235.51	235.54	32.1	0.227	OK	235.5109	0.00	0.03	
1608741-03 MeHg	21.127	80.8	118.0	235.53	235.54	90.6	0.162	OK	235.5109	0.00	0.03	
1608741-03 Hg(I)	40.739	163.6	210.4	235.54	235.54	178.7	0.234	OK	235.5109	0.00	0.03	

#26: 1608742-01



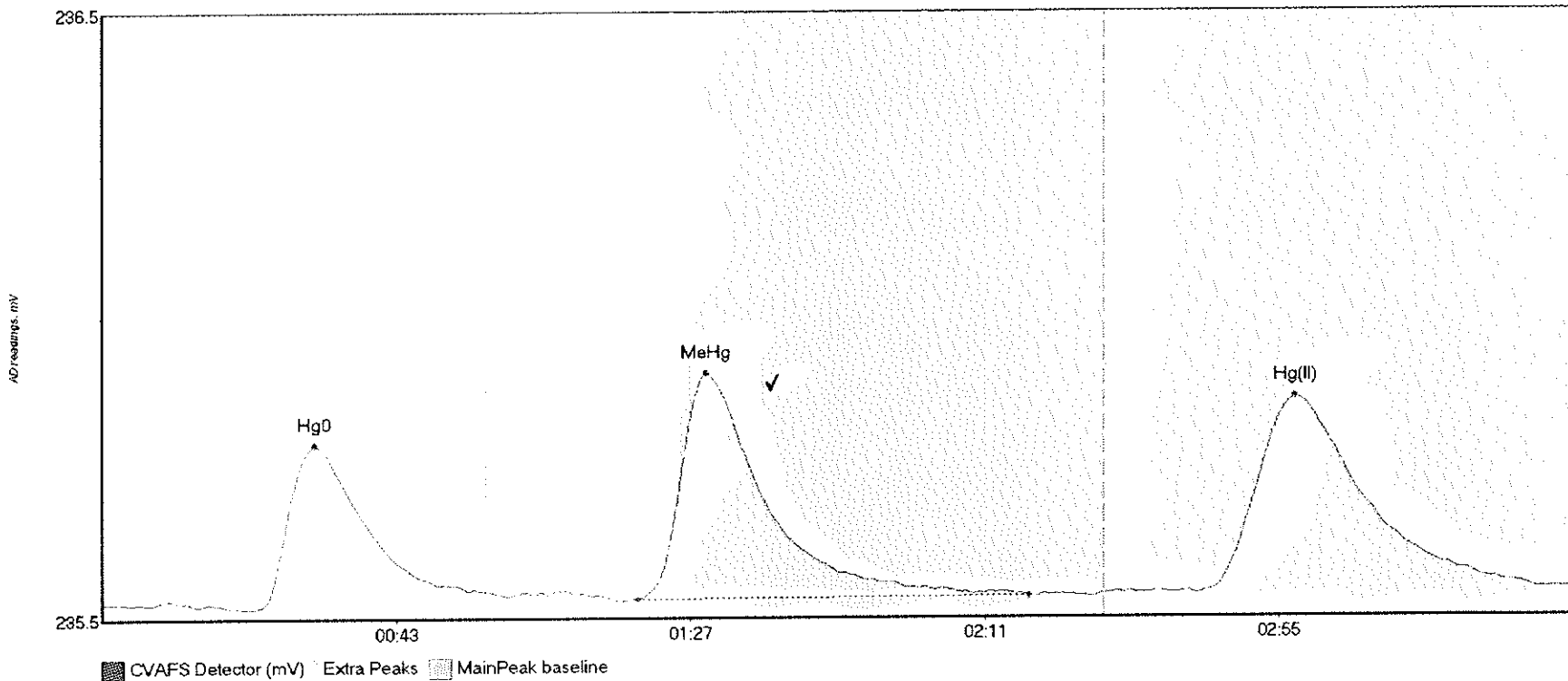
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608742-01 Hg0	37.999	23.6	56.4	235.52	235.54	31.8	0.296	OK	235.5129	0.00	0.03	
1608742-01 MeHg	46.978	81.7	127.3	235.53	235.54	90.8	0.346	OK	235.5129	0.00	0.03	
1608742-01 Hg(I)	62.344	162.9	219.6	235.53	235.55	179.0	0.358	OK	235.5129	0.00	0.03	

#27: 1608742-03



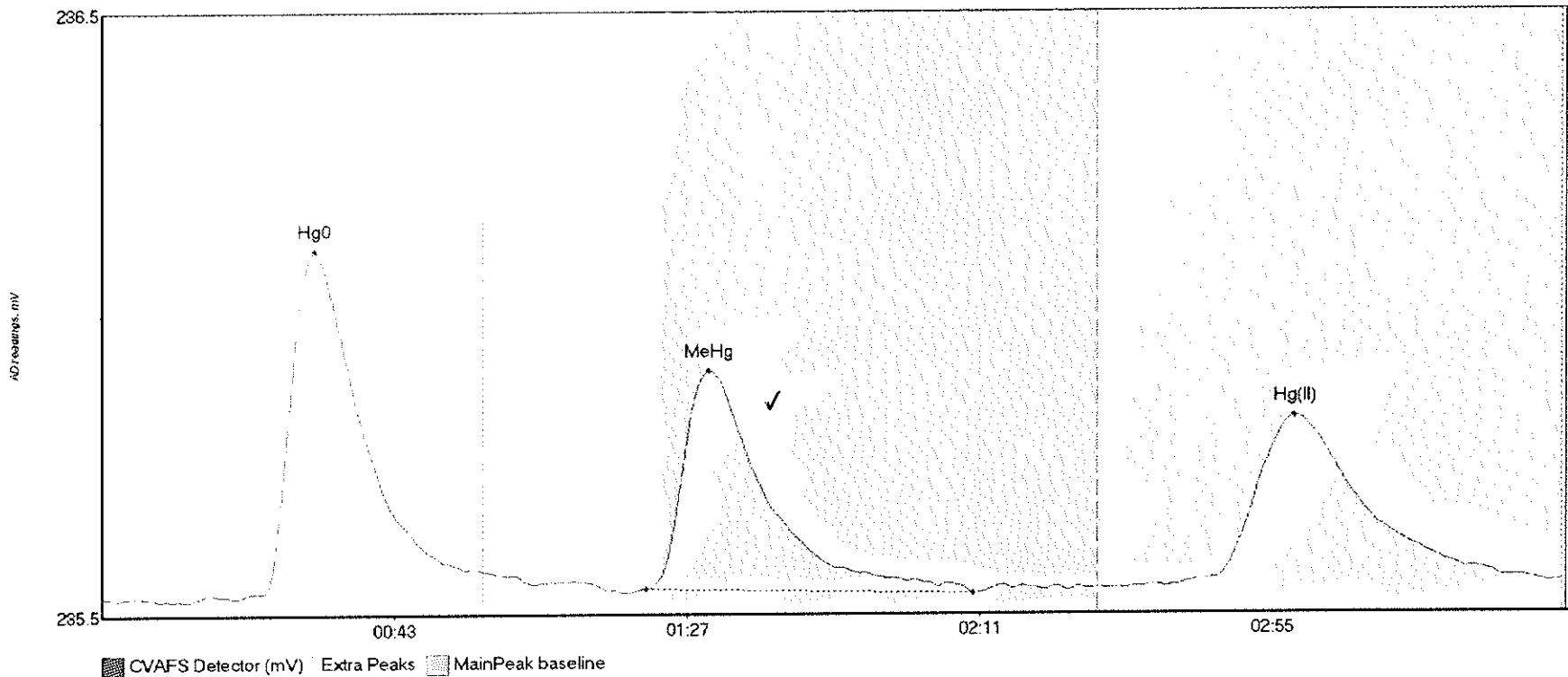
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608742-03 Hg0	48.453	22.1	57.5	235.53	235.56	32.0	0.402	CT	235.5275	0.00	0.03	
1608742-03 MeHg	51.816	80.4	149.5	235.54	235.53	90.8	0.326	OK	235.5275	0.00	0.03	
1608742-03 Hg(1)	64.552	150.1	218.7	235.54	235.56	178.2	0.339	OK	235.5275	0.00	0.03	

#28: 1608742-04



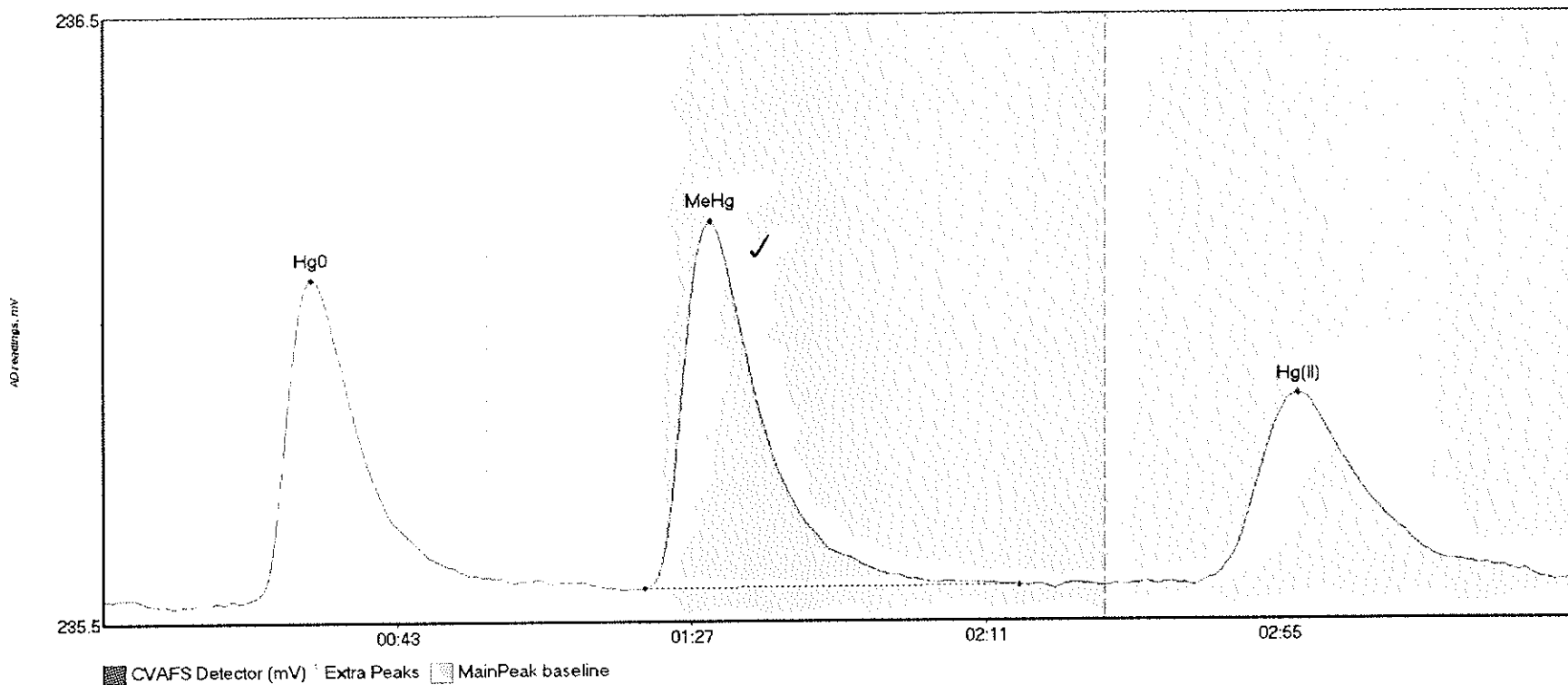
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608742-04 Hg0	33.472	22.4	57.4	235.53	235.56	31.8	0.271	OK	235.5384	0.00	0.02	
1608742-04 MeHg	53.855	80.1	138.6	235.54	235.55	90.5	0.373	OK	235.5384	0.00	0.02	
1608742-04 Hg(I)	58.896	163.9	216.3	235.55	235.56	178.5	0.323	OK	235.5384	0.00	0.02	

#29: 1608742-05



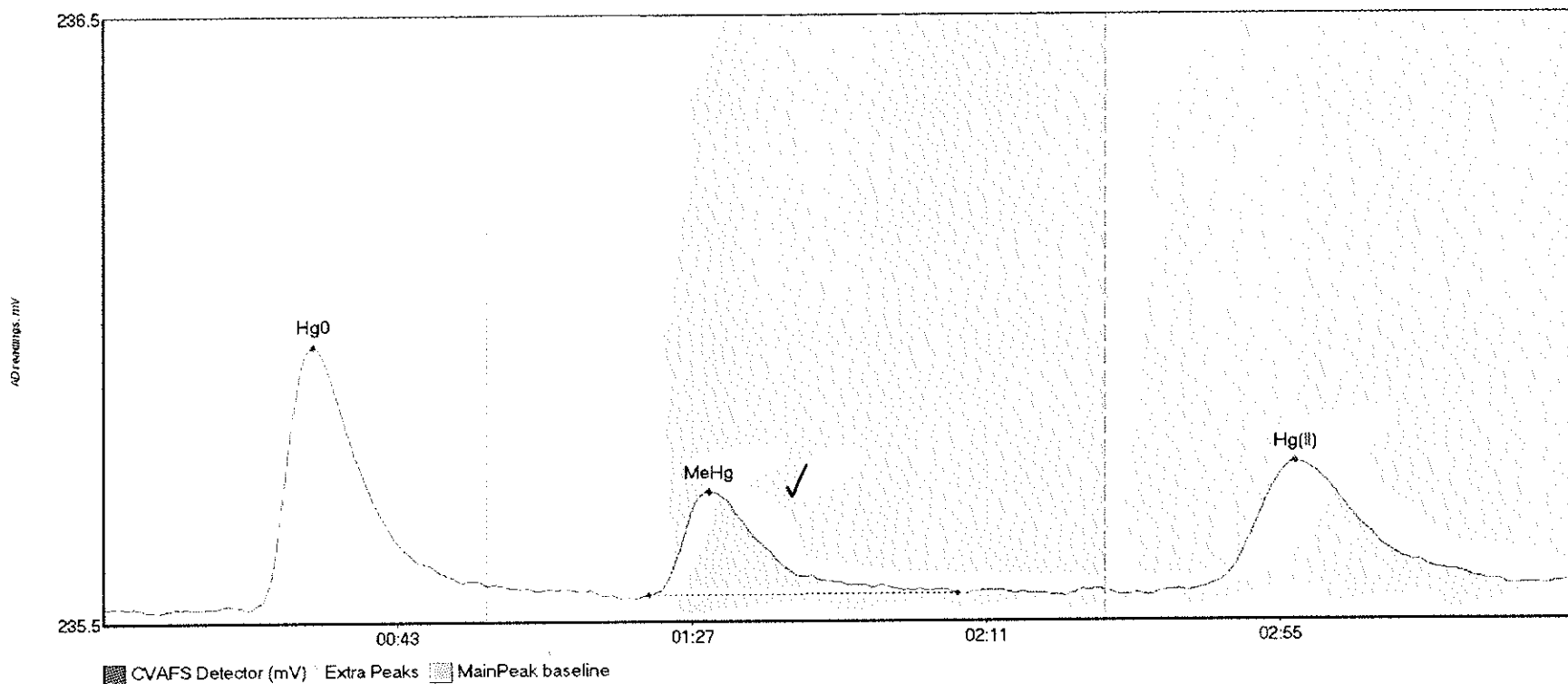
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608742-05 Hg0	66.478	19.9	57.5	235.54	235.58	32.1	0.578	CT	235.5367	0.00	0.02	
1608742-05 MeHg	52.491	81.9	131.0	235.55	235.54	91.4	0.363	OK	235.5367	0.00	0.02	
1608742-05 Hg(I)	52.062	161.9	217.9	235.56	235.56	179.4	0.281	OK	235.5367	0.00	0.02	

#30: 1608742-07



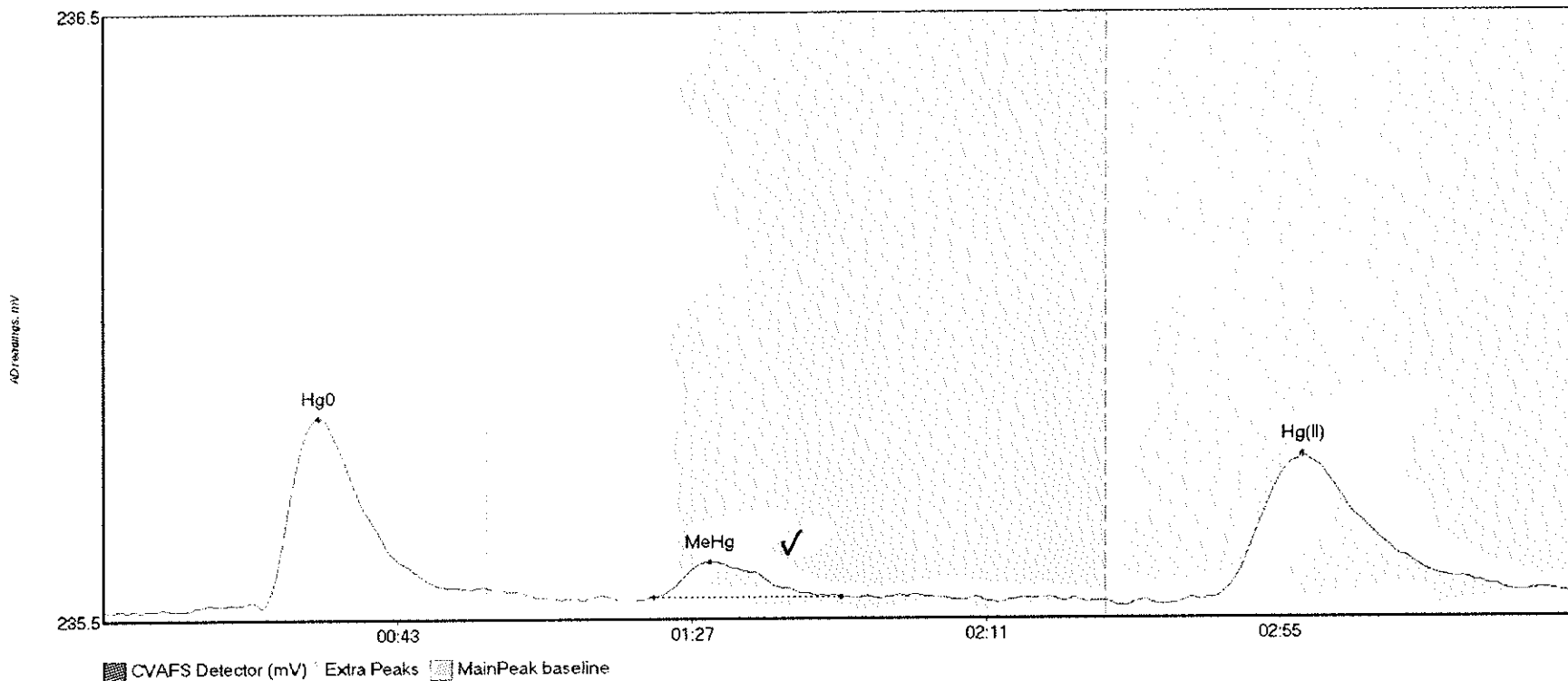
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608742-07 Hg0	63.988	20.5	56.9	235.54	235.58	31.2	0.535	OK	235.5407	0.00	0.03	
1608742-07 MeHg	82.148	81.0	137.0	235.56	235.56	90.9	0.605	OK	235.5407	0.00	0.03	
1608742-07 Hg(I	59.078	163.3	217.3	235.56	235.56	178.7	0.316	OK	235.5407	0.00	0.03	

#31: 1608742-08



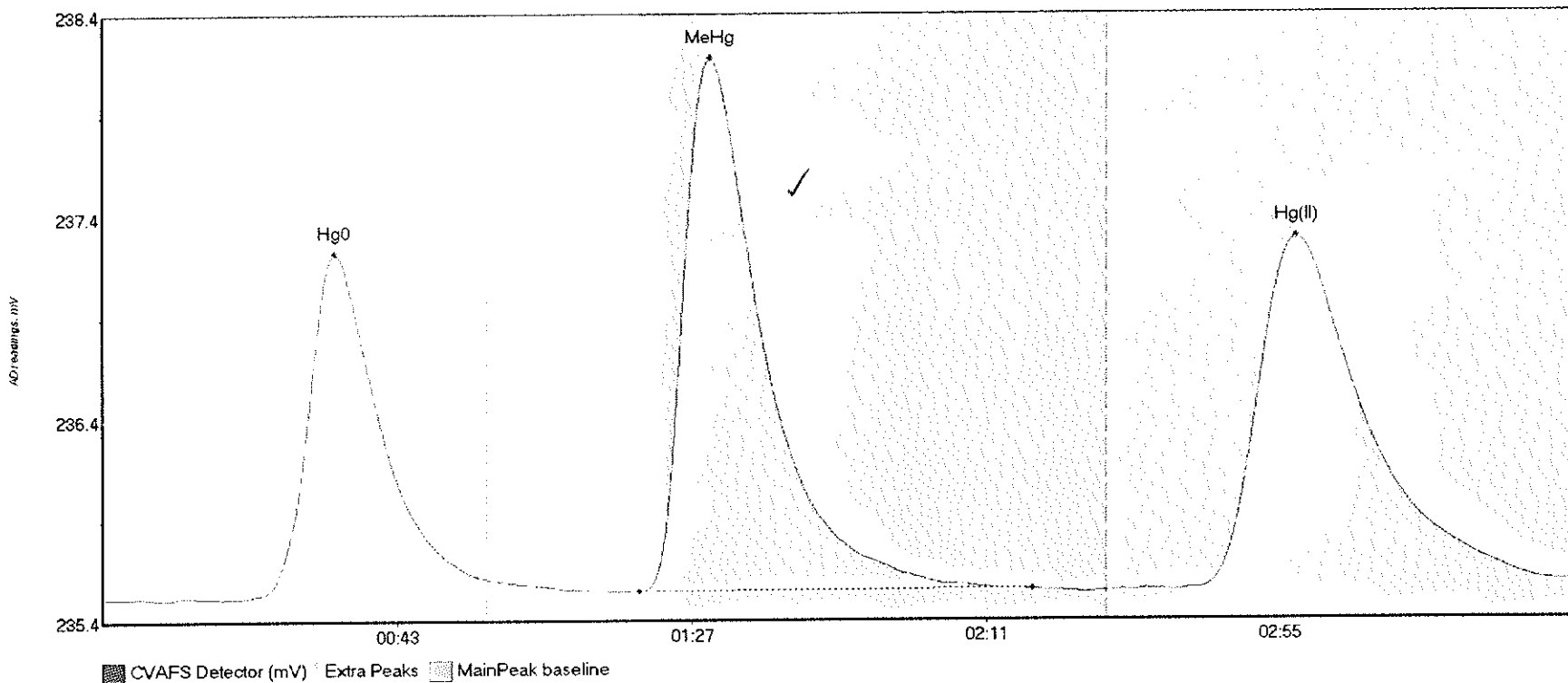
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608742-08 Hg0	53.725	21.8	57.5	235.54	235.58	31.4	0.433	CF	235.5430	0.00	0.04	
1608742-08 MeHg	24.321	81.6	127.8	235.56	235.56	90.6	0.171	OK	235.5430	0.00	0.04	
1608742-08 Hg(I)	37.729	163.5	210.9	235.57	235.58	178.3	0.211	OK	235.5430	0.00	0.04	

#32: 1608981-01



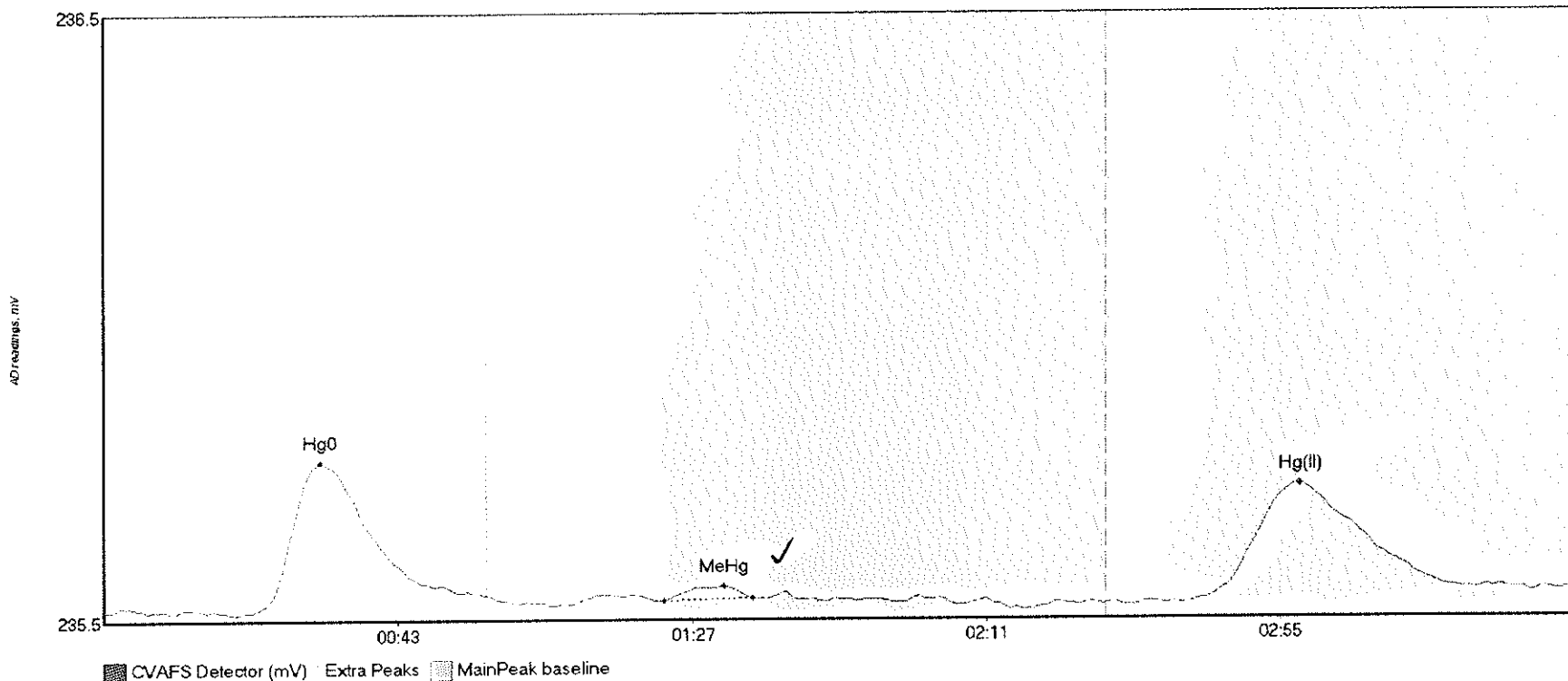
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakReight	Flags	Baseline	BlDev	BlShift	Comment
1608981-01 Hg0	37.250	12.7	54.6	235.55	235.59	32.2	0.320	OK	235.5538	0.00	0.03	
1608981-01 MeHg	7.567	82.3	110.5	235.57	235.57	90.8	0.058	OK	235.5538	0.00	0.03	
1608981-01 Hg(I	43.604	164.3	219.8	235.57	235.58	179.4	0.238	CT	235.5538	0.00	0.03	

#33: SEQ-CCV2



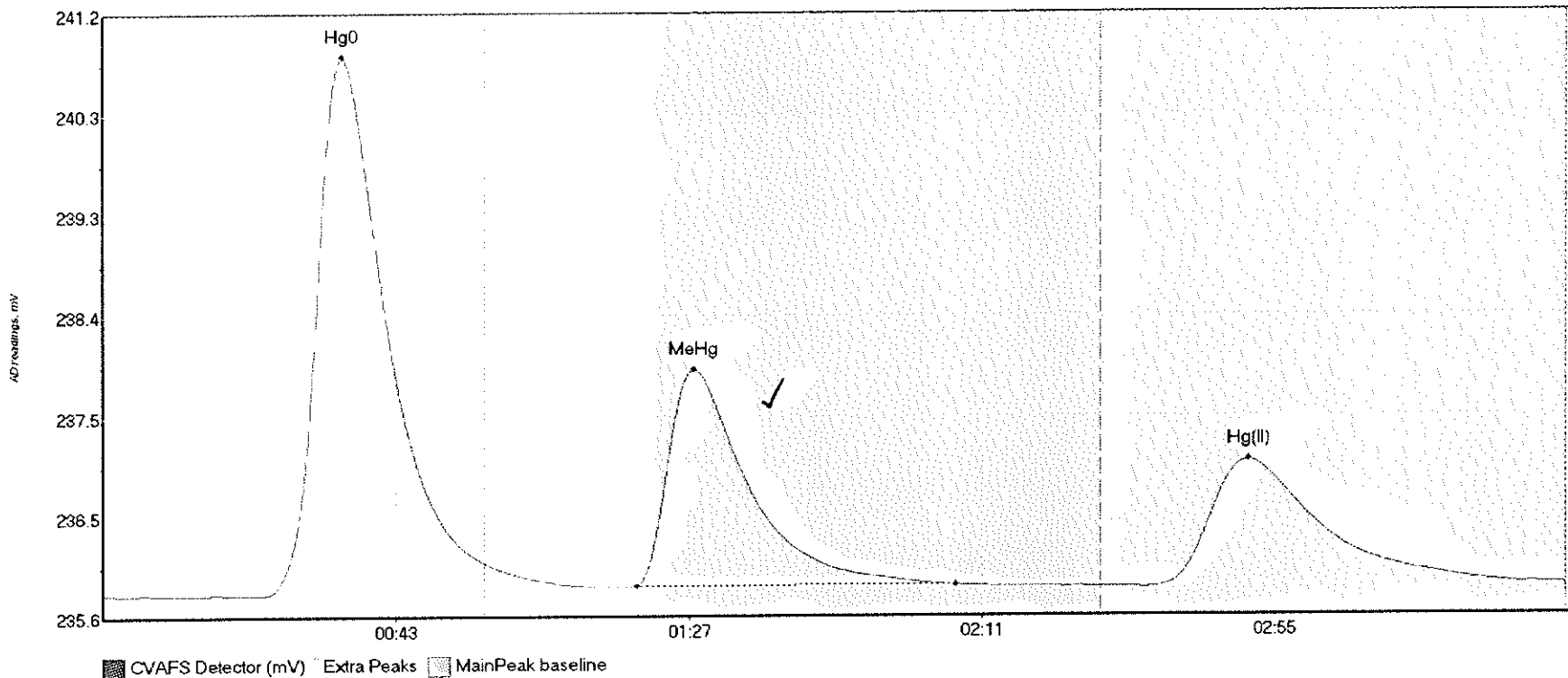
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	ElDev	ElShift	Comment
SEQ-CCV2 Hg0	196.510	19.7	57.5	235.55	235.64	34.6	1.660	CT	235.5509	0.00	0.07	
SEQ-CCV2 MeHg	353.867	80.1	138.9	235.58	235.59	90.8	2.564	OK	235.5509	0.00	0.07	
SEQ-CCV2 Hg(II)	311.160	160.8	219.8	235.58	235.62	178.5	1.696	CT	235.5509	0.00	0.07	

#34: SEQ-CCB2



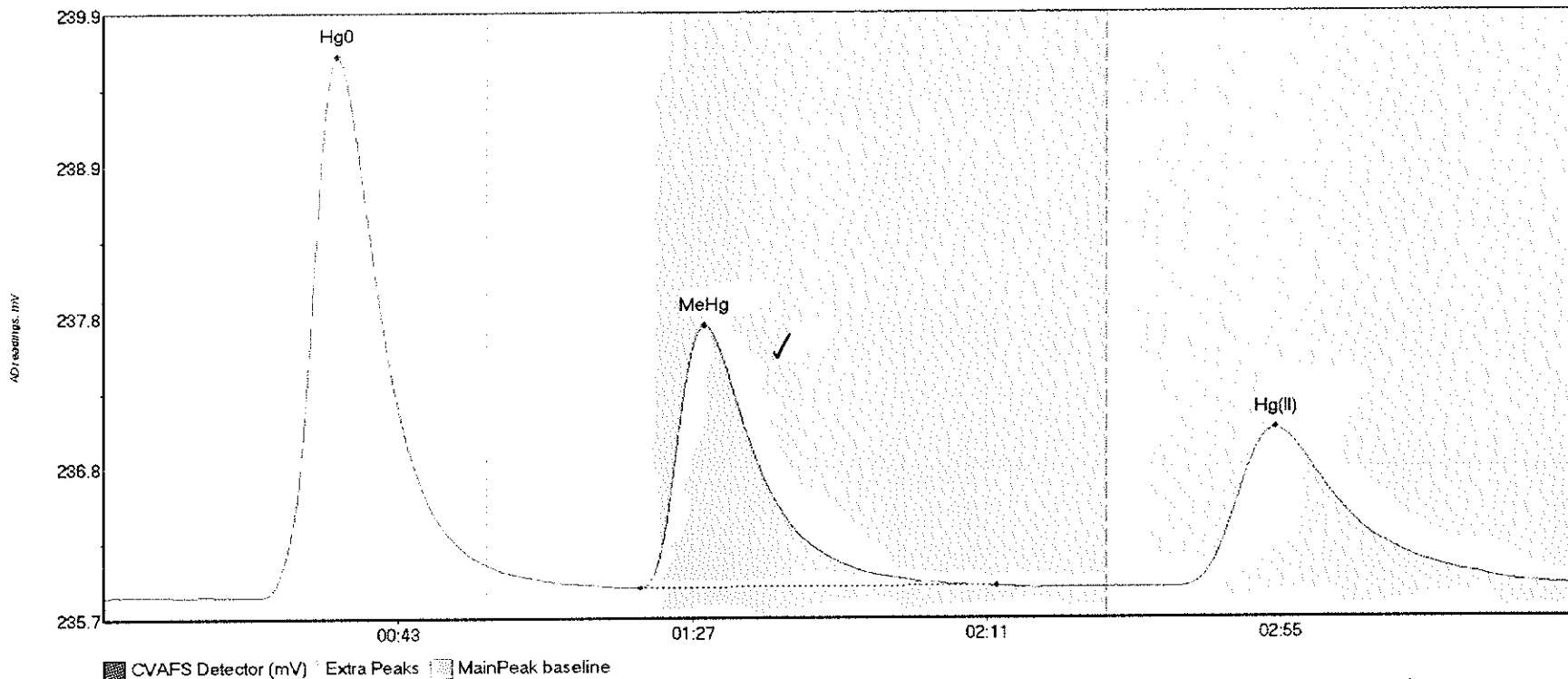
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB2 Hg0	31.404	22.3	57.5	235.55	235.58	32.4	0.246	CT	235.5527	0.00	0.03	
SEQ-CCB2 MeHg	1.808	83.7	97.0	235.57	235.57	92.8	0.024	OK	235.5527	0.00	0.03	
SEQ-CCB2 Hg(II)	35.351	162.2	213.8	235.56	235.58	179.0	0.196	OK	235.5527	0.00	0.03	

#35: SEQ-CCV3



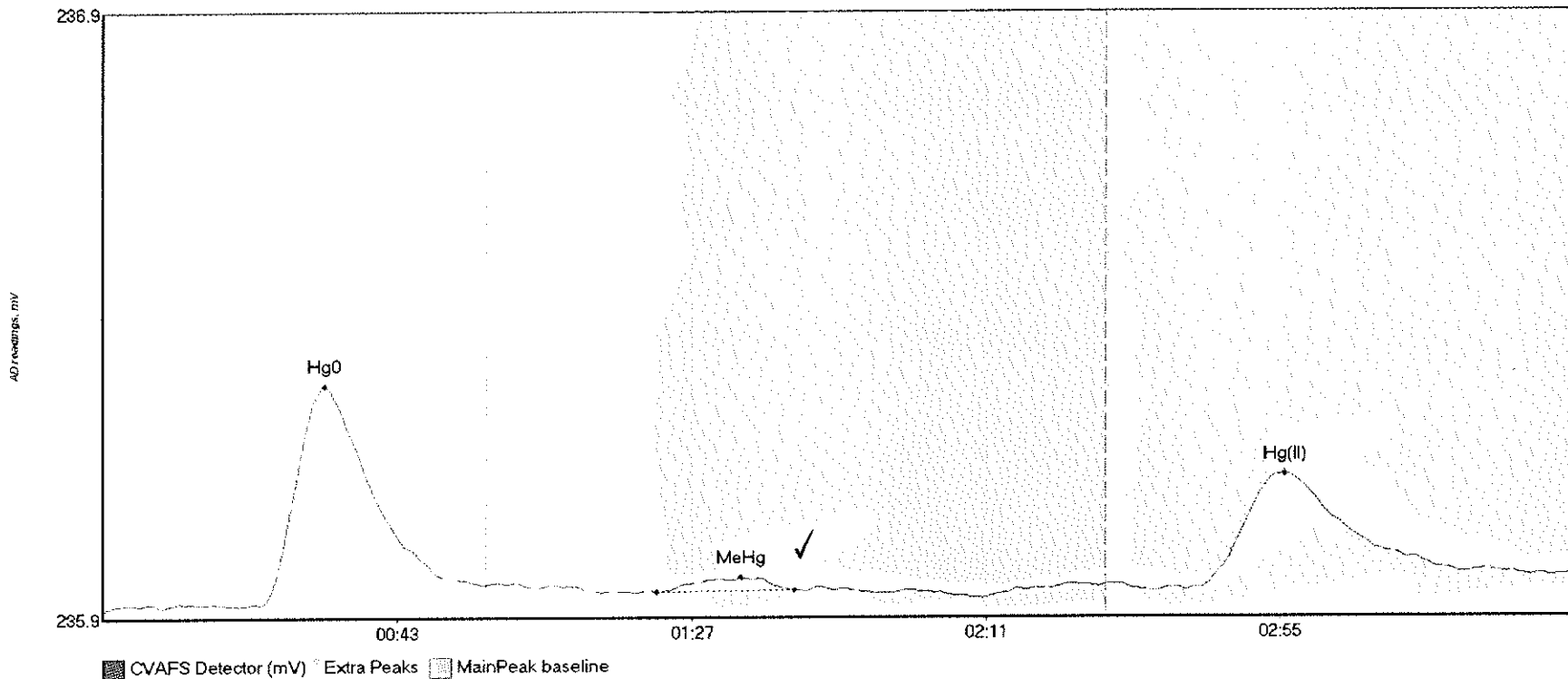
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	SlDev	SlShift	Comment
SEQ-CCV3 Hg0	570.822	24.0	57.5	235.80	236.08	35.9	5.000	CT	235.8002	0.00	0.08	
SEQ-CCV3 MeHg	280.011	80.1	128.2	235.87	235.88	88.8	2.017	OK	235.8002	0.00	0.08	
SEQ-CCV3 Hg(II)	227.841	156.4	219.8	235.85	235.88	172.2	1.187	CT	235.8002	0.00	0.08	

#36: SEQ-CCV4



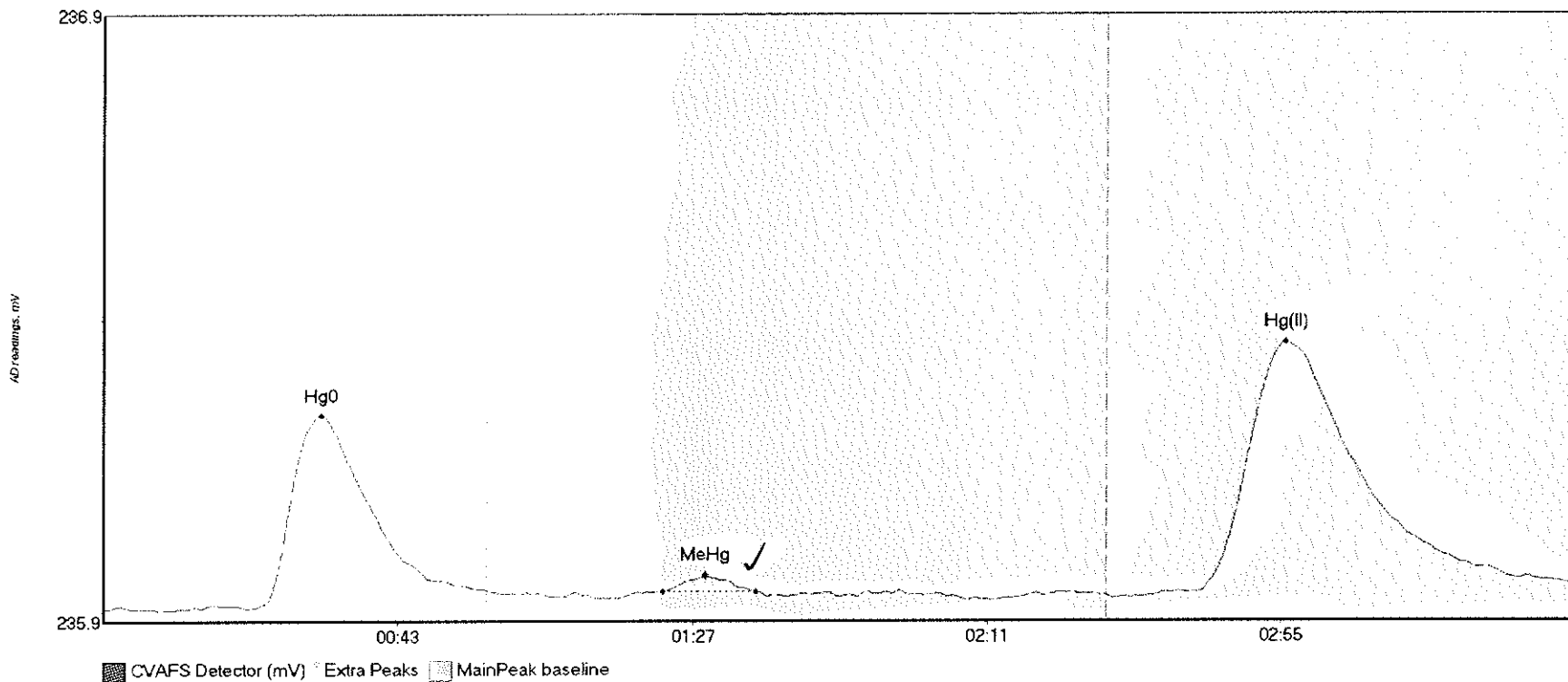
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	ElDev	ElShift	Comment
SEQ-CCV4 Hg0	436.830	22.9	57.5	235.86	236.07	34.9	3.762	CF	235.8633	0.00	0.07	
SEQ-CCV4 MeHg	256.871	80.1	133.4	235.92	235.93	89.8	1.831	OK	235.8633	0.00	0.07	
SEQ-CCV4 Hg(II)	210.876	160.7	219.7	235.92	235.93	175.3	1.105	OK	235.8633	0.00	0.07	

#37: SEQ-CCB3



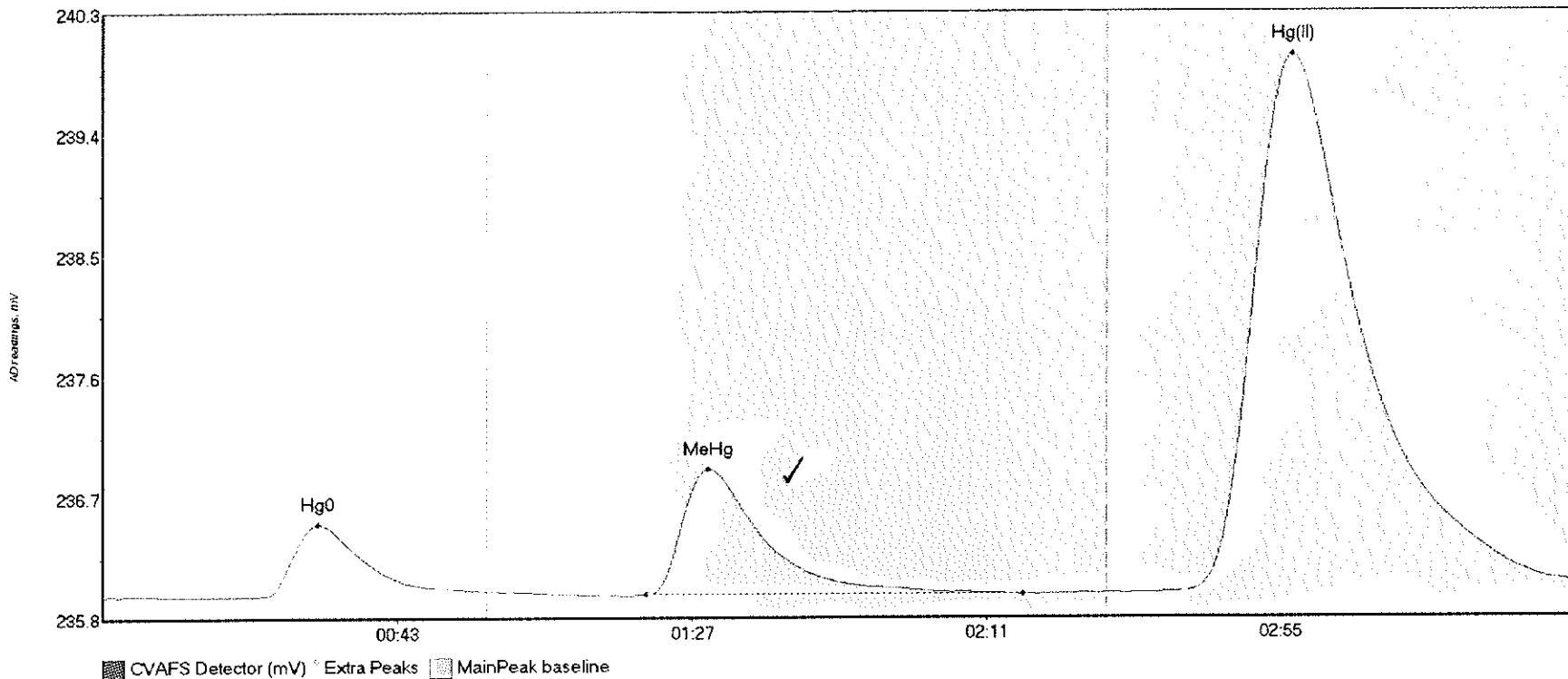
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	44.999	20.3	56.9	235.93	235.96	33.2	0.364	OK	235.9224	0.00	0.06	
SEQ-CCB3 MeHg	2.694	82.8	103.4	235.95	235.95	95.5	0.025	OK	235.9224	0.00	0.06	
SEQ-CCB3 Hg(II)	33.805	163.9	216.5	235.96	235.97	176.7	0.188	OK	235.9224	0.00	0.06	

#38: 1608981-02



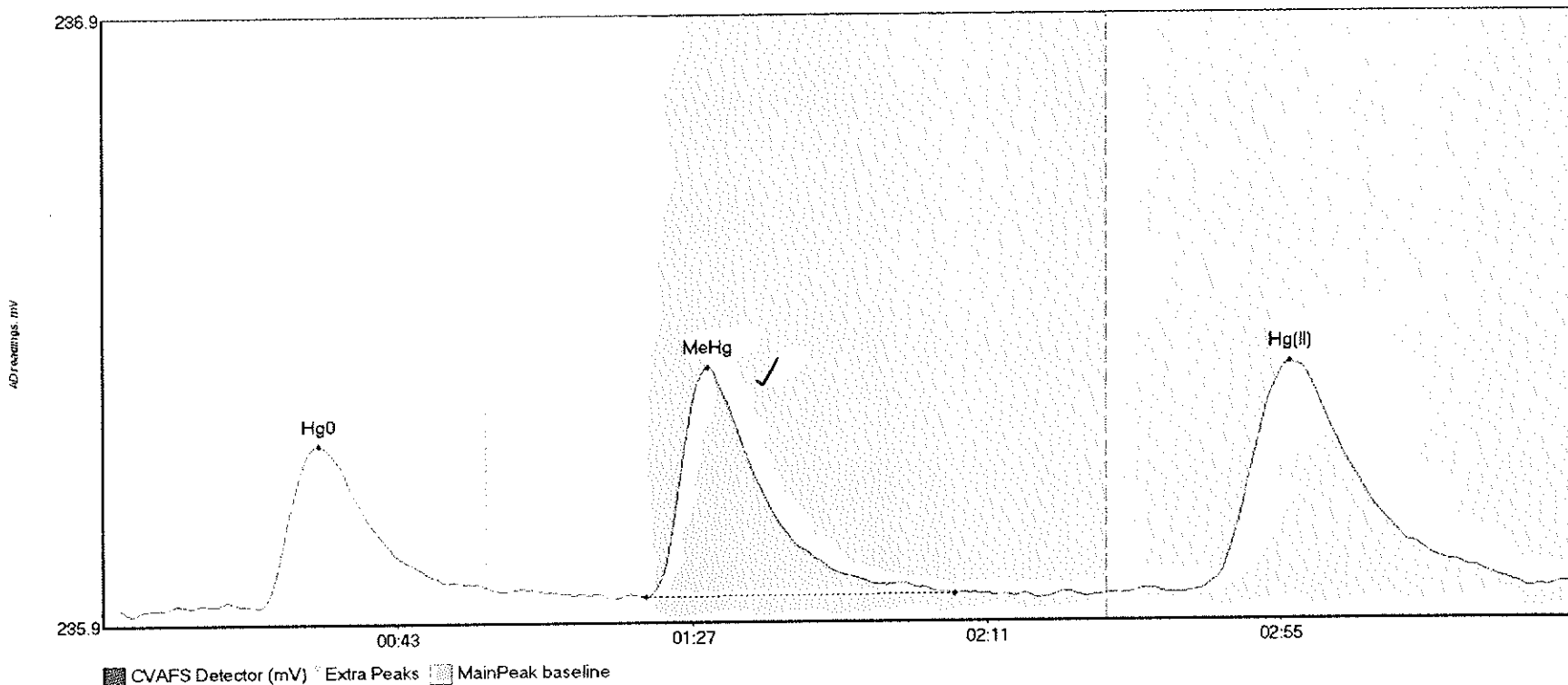
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-02 Hg0	40.163	22.8	57.5	235.97	236.00	32.6	0.318	CF	235.9697	0.00	0.04	
1608981-02 MeHg	1.916	83.6	97.5	236.00	236.00	89.9	0.025	OK	235.9697	0.00	0.04	
1608981-02 Hg(I)	77.874	157.4	219.7	235.99	236.01	176.8	0.416	OK	235.9697	0.00	0.04	

#39: 1608981-03



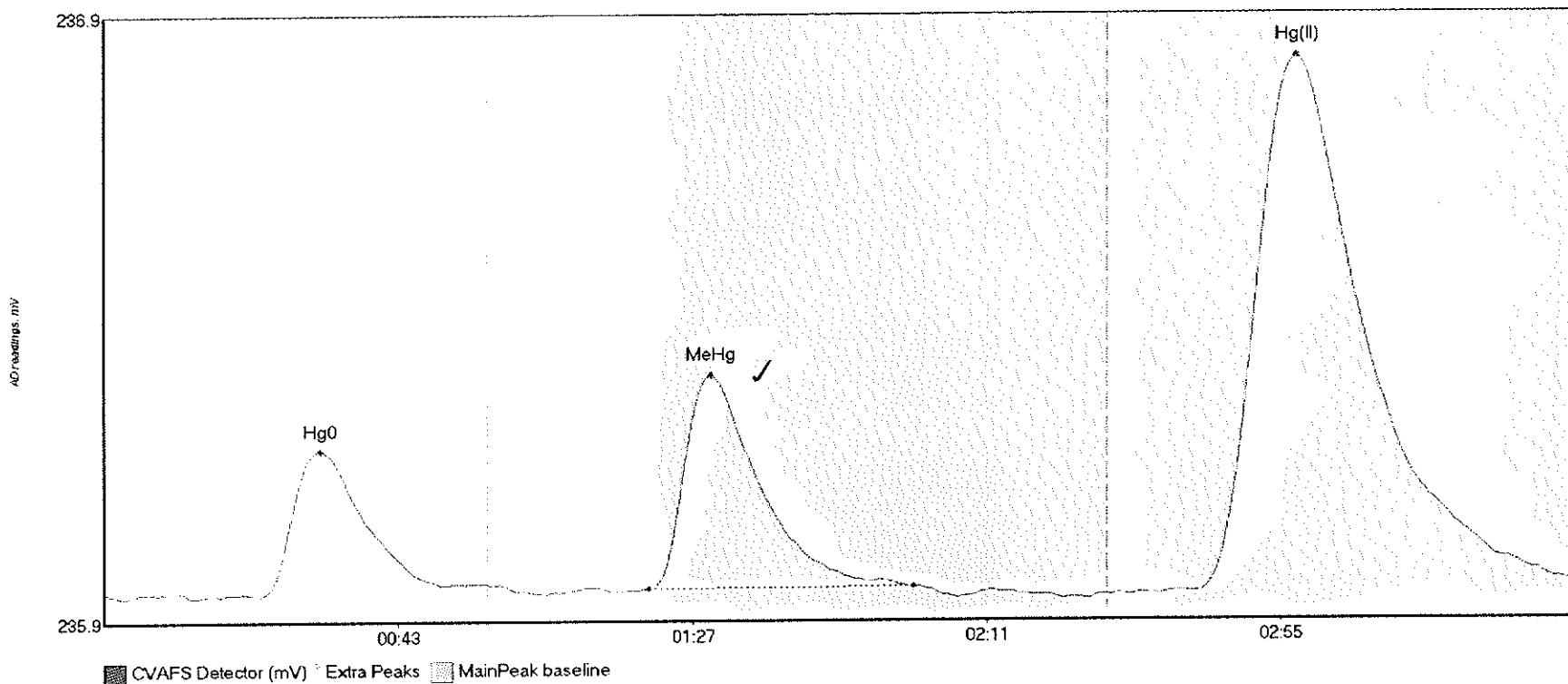
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-03 Hg0	61.492	22.8	57.5	235.99	236.02	32.2	0.530	CT	235.9911	0.00	0.10	
1608981-03 MeHg	130.785	81.1	137.4	236.00	236.00	90.5	0.930	OK	235.9911	0.00	0.10	
1608981-03 Hg(I)	736.134	157.0	219.8	236.01	236.09	177.8	3.972	CT	235.9911	0.00	0.10	

#40: 1608981-04



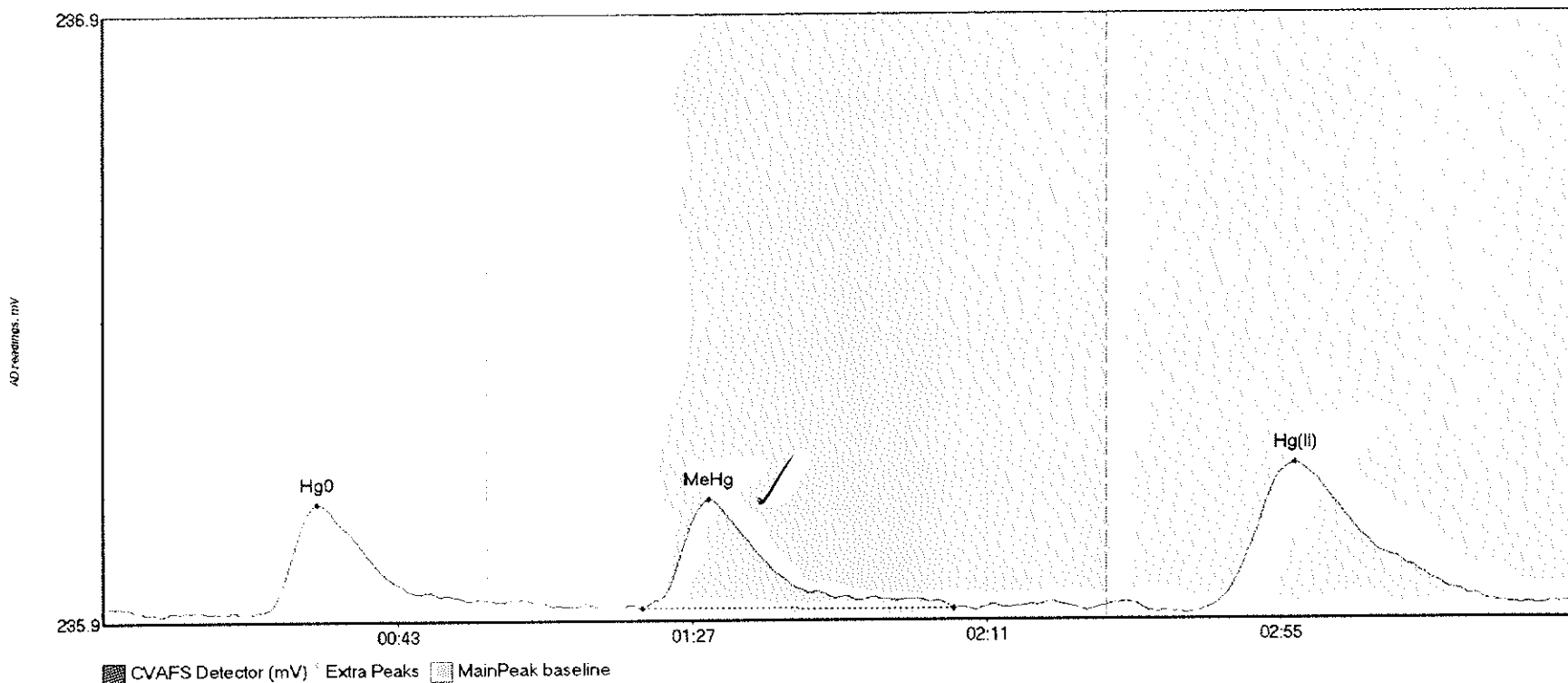
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-04 Hg0	34.329	23.3	57.5	235.96	235.99	32.3	0.267	CT	235.9564	0.00	0.03	
1608981-04 MeHg	52.464	81.0	127.2	235.97	235.97	90.3	0.379	OK	235.9564	0.00	0.03	
1608981-04 Hg(I)	68.495	163.9	213.1	235.98	235.98	177.5	0.374	OK	235.9564	0.00	0.03	

#41: 1608981-05



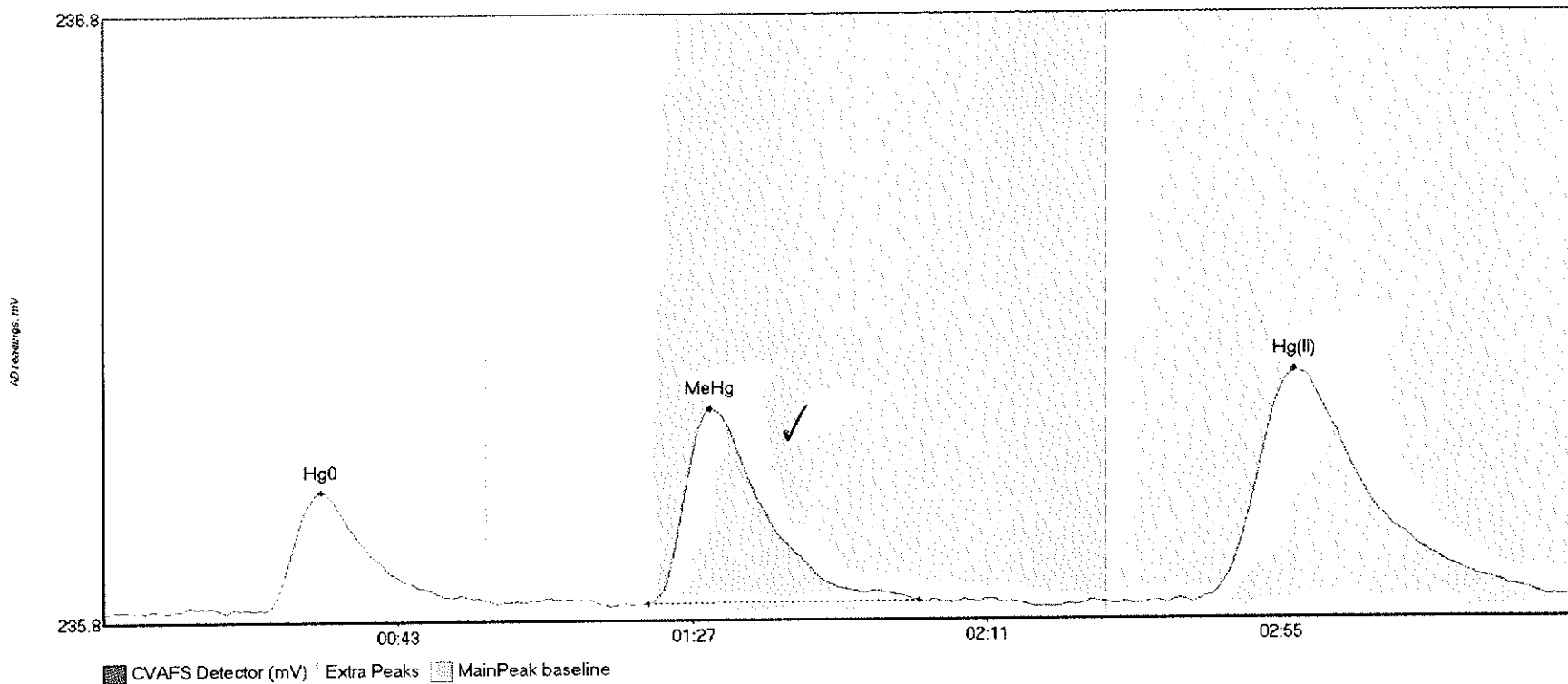
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-05 Hg0	29.628	23.6	51.0	235.92	235.94	32.4	0.256	OK	235.9278	0.00	0.02	
1608981-05 MeHg	48.576	81.5	121.2	235.93	235.94	90.7	0.376	OK	235.9278	0.00	0.02	
1608981-05 Hg(I)	174.173	158.1	219.8	235.93	235.95	178.3	0.940	CT	235.9278	0.00	0.02	

#42: 1608981-06



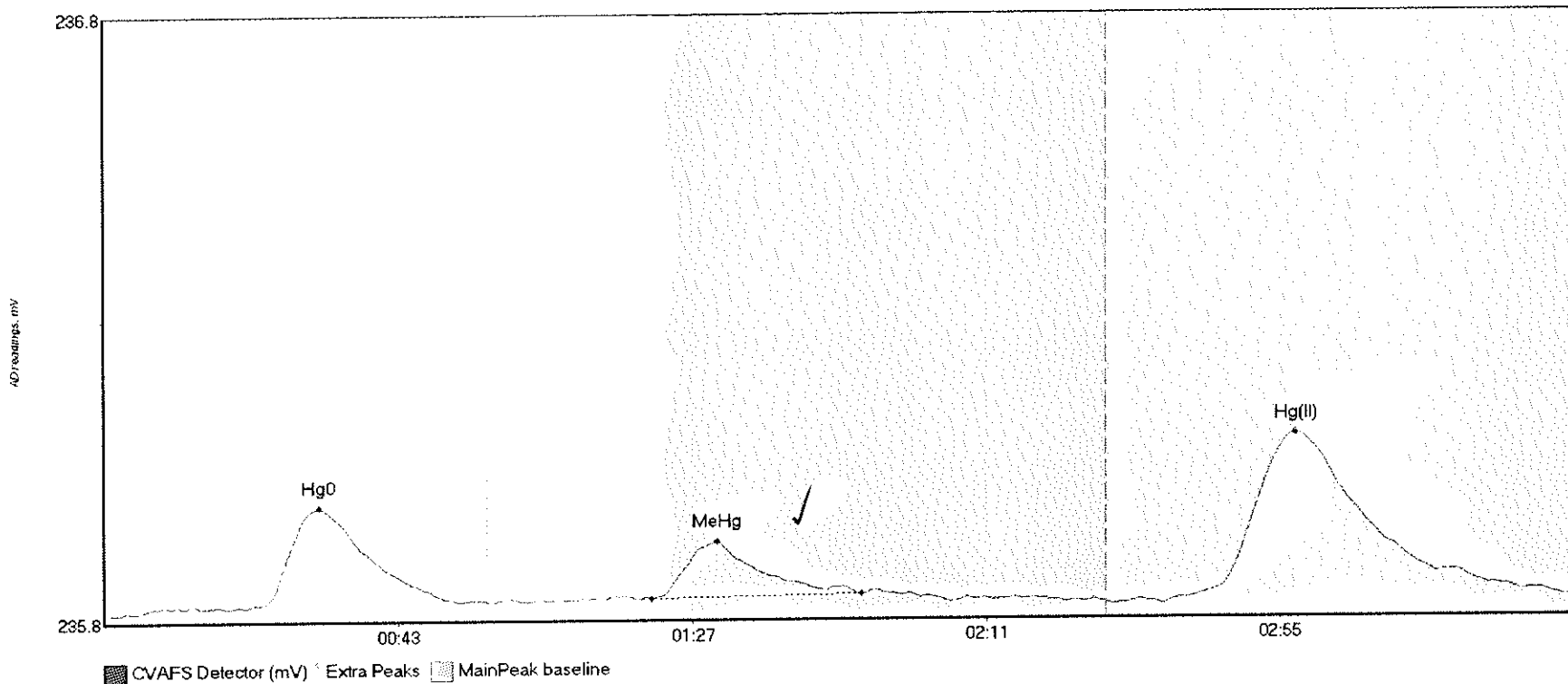
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-06 Hg0	20.900	23.3	54.8	235.87	235.88	31.9	0.178	OK	235.8730	0.00	0.01	
1608981-06 MeHg	25.822	80.4	127.0	235.87	235.87	90.5	0.180	OK	235.8730	0.00	0.01	
1608981-06 Hg(II)	43.563	163.1	207.9	235.86	235.88	178.2	0.245	OK	235.8730	0.00	0.01	

#43: 1608981-07



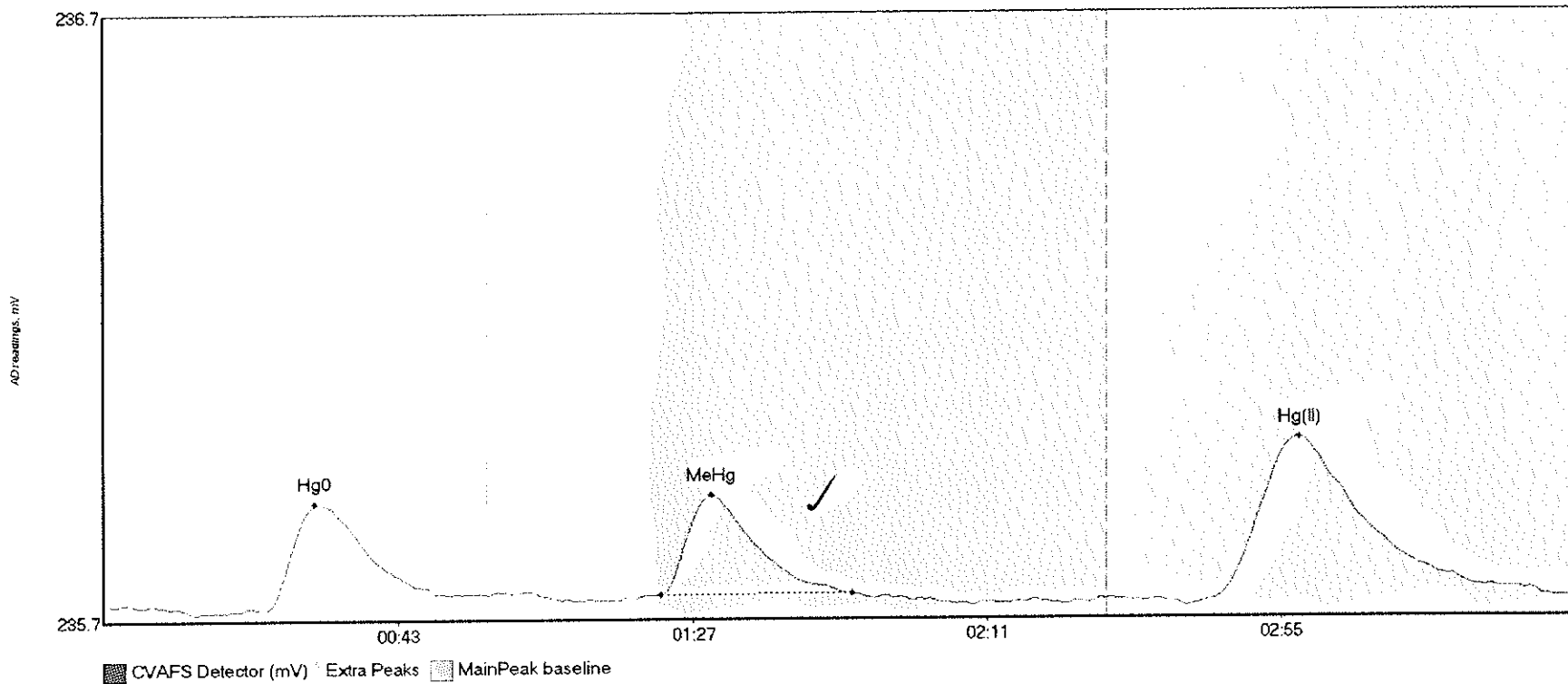
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-07 Hg0	23.665	24.1	57.5	235.83	235.84	32.4	0.196	CT	235.8223	0.00	0.02	
1608981-07 MeHg	43.761	81.3	122.0	235.83	235.84	90.6	0.322	OK	235.8223	0.00	0.02	
1608981-07 Hg(II)	72.453	163.2	218.1	235.83	235.84	178.1	0.381	OK	235.8223	0.00	0.02	

#44: 1608981-08



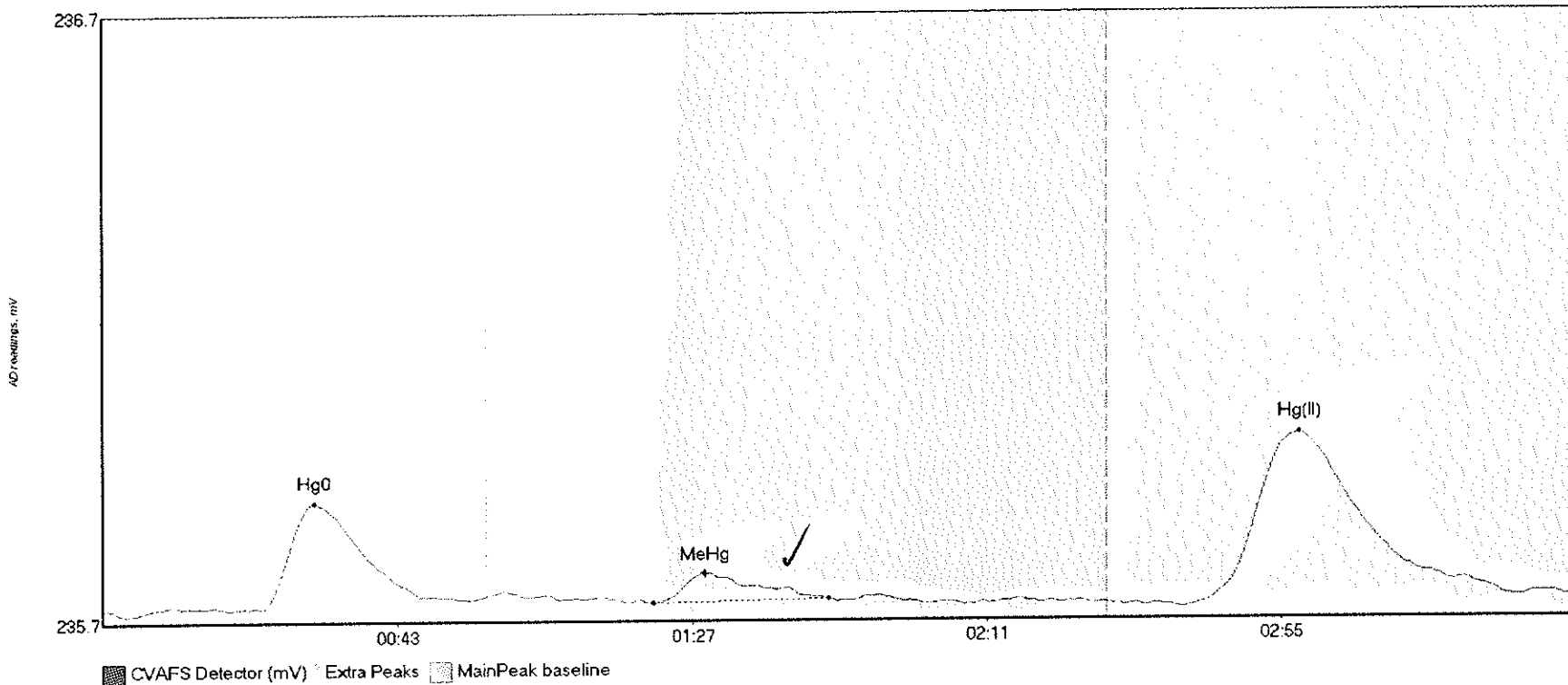
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-08 Hg0	23.057	4.5	57.5	235.78	235.80	32.1	0.173	CT	235.7763	0.00	0.02	
1608981-08 MeHg	11.589	81.9	113.4	235.80	235.81	91.7	0.093	OK	235.7763	0.00	0.02	
1608981-08 Hg(I)	54.630	158.4	219.0	235.79	235.80	178.4	0.282	OK	235.7763	0.00	0.02	

#45: 1608981-09



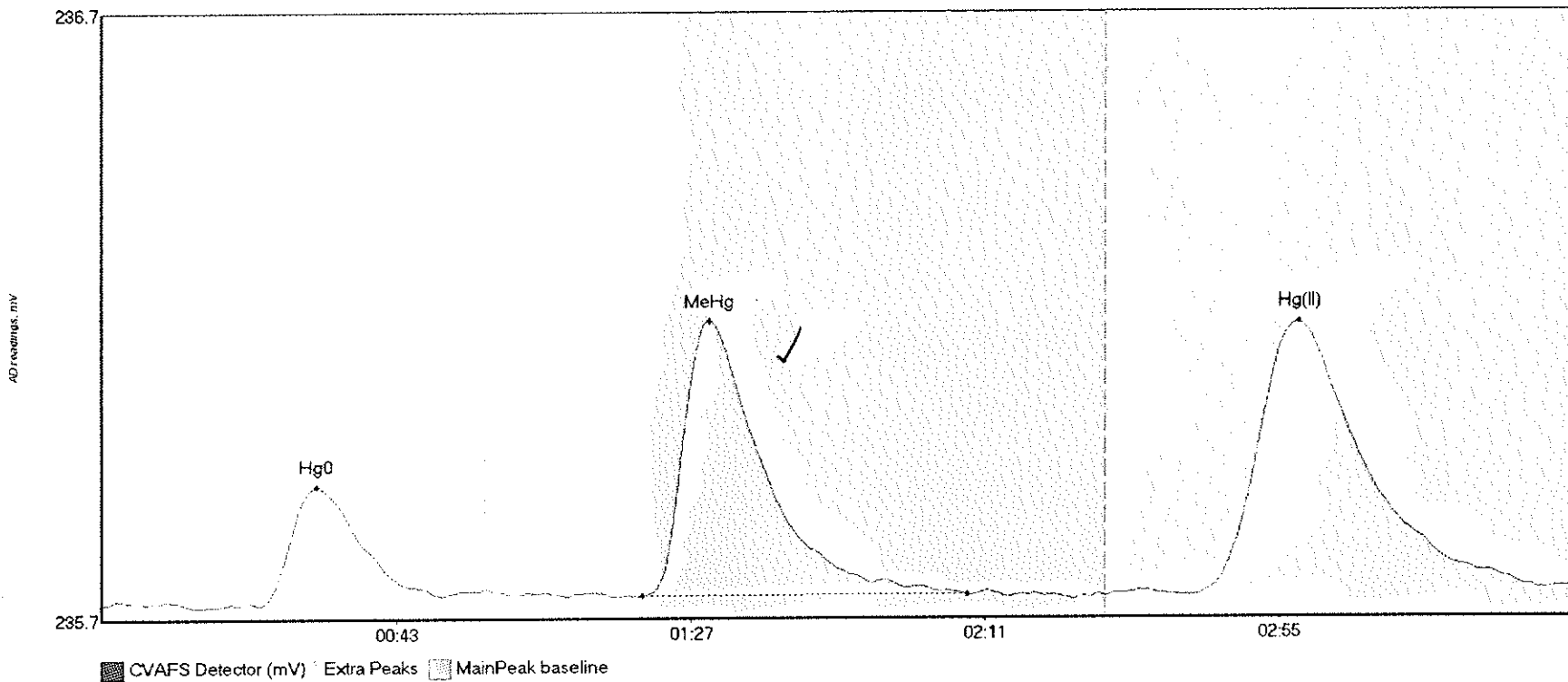
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-09 Hg0	20.859	24.0	52.0	235.75	235.78	31.5	0.174	OK	235.7625	0.00	0.00	
1608981-09 MeHg	19.180	83.1	111.9	235.78	235.78	90.7	0.166	OK	235.7625	0.00	0.00	
1608981-09 Hg(I)	48.156	165.4	215.4	235.76	235.77	178.8	0.268	OK	235.7625	0.00	0.00	

#46: 1608981-10



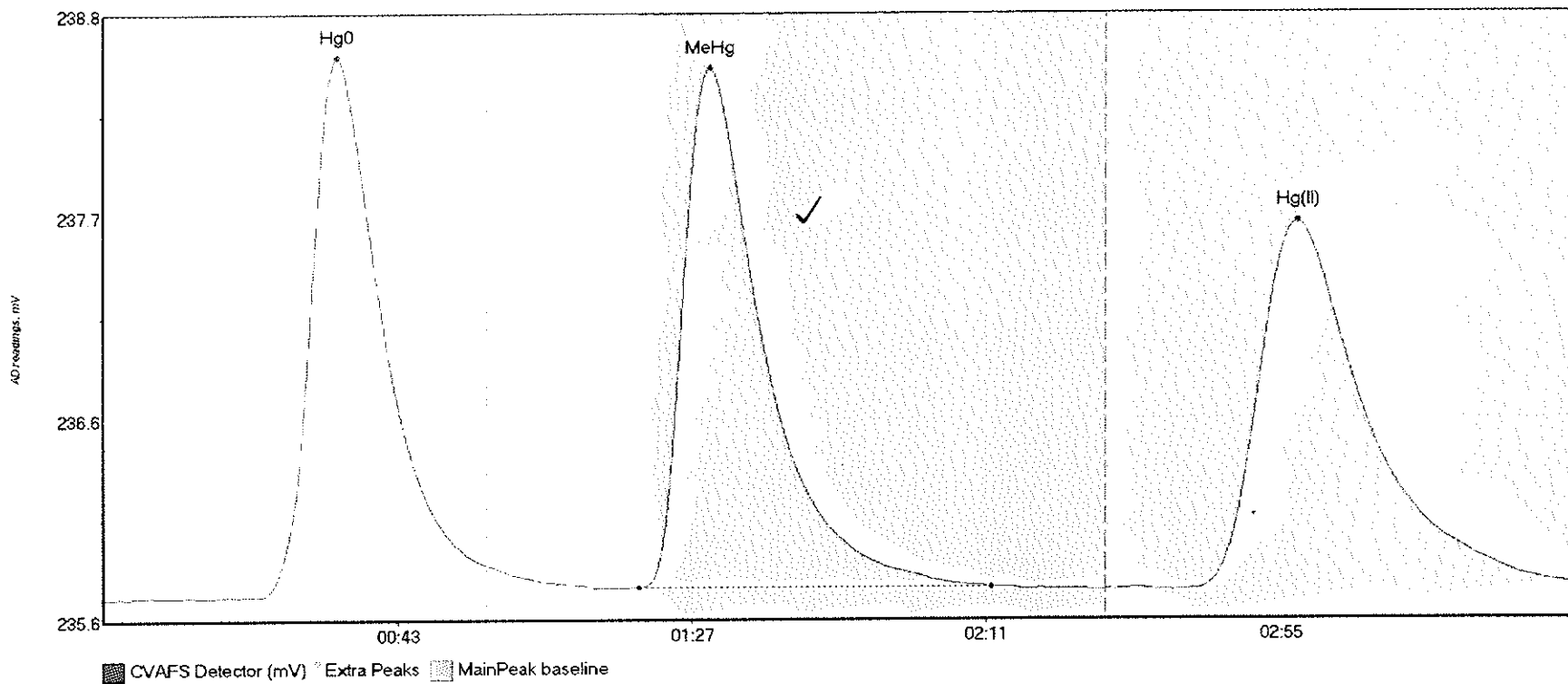
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	ElDev	BlShift	Comment
1608981-10 Hg0	20.777	23.6	54.6	235.73	235.74	31.6	0.175	OK	235.7296	0.00	0.02	
1608981-10 MeHg	5.816	82.1	108.4	235.74	235.74	89.9	0.050	OK	235.7296	0.00	0.02	
1608981-10 Hg(I)	52.225	161.6	218.8	235.73	235.74	178.7	0.286	OK	235.7296	0.00	0.02	

#47: 1608981-11



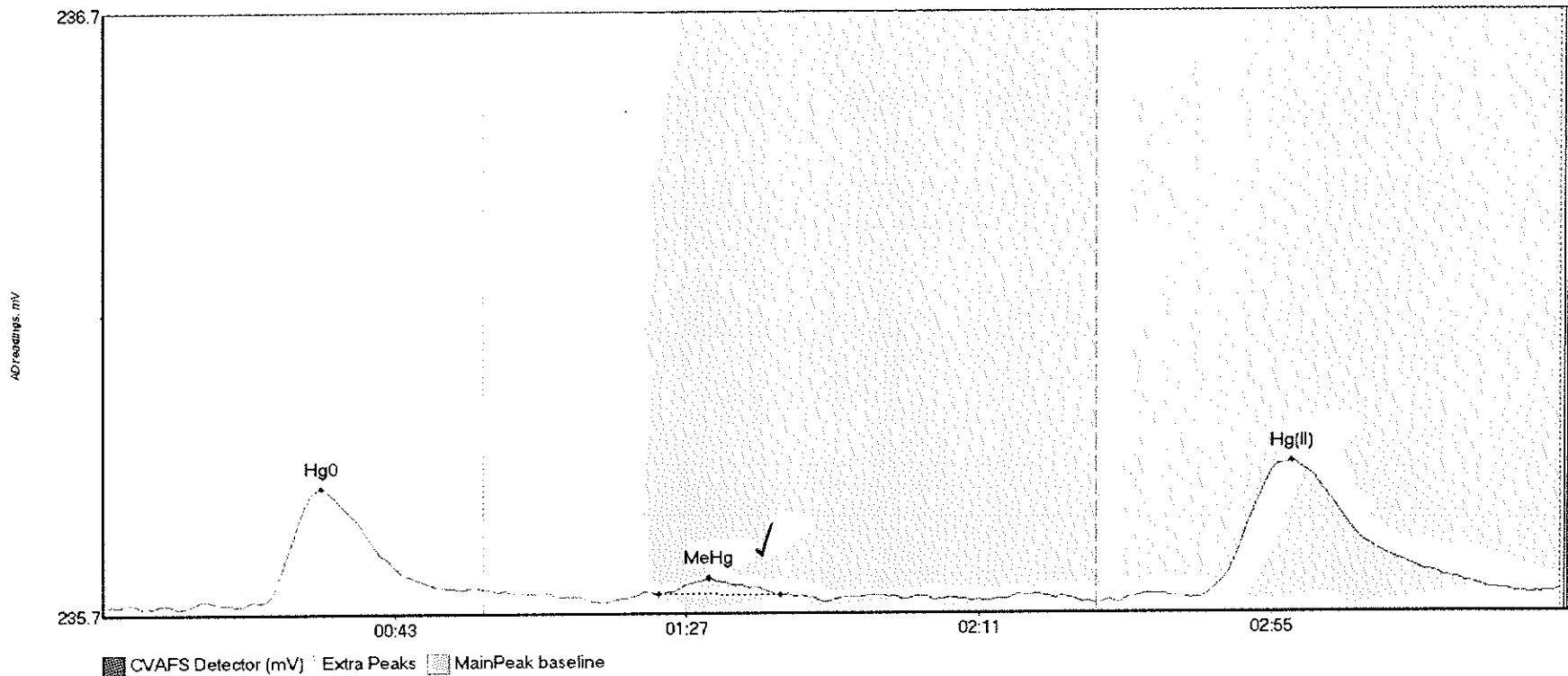
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-11 Hg0	22.372	23.3	50.9	235.70	235.71	32.0	0.195	OK	235.6990	0.00	0.03	
1608981-11 MeHg	62.522	86.8	129.5	235.71	235.71	90.7	0.455	OK	235.6990	0.00	0.03	
1608981-11 Hg(I)	81.568	163.6	215.7	235.71	235.72	179.0	0.450	OK	235.6990	0.00	0.03	

#48: SEQ-CCV5



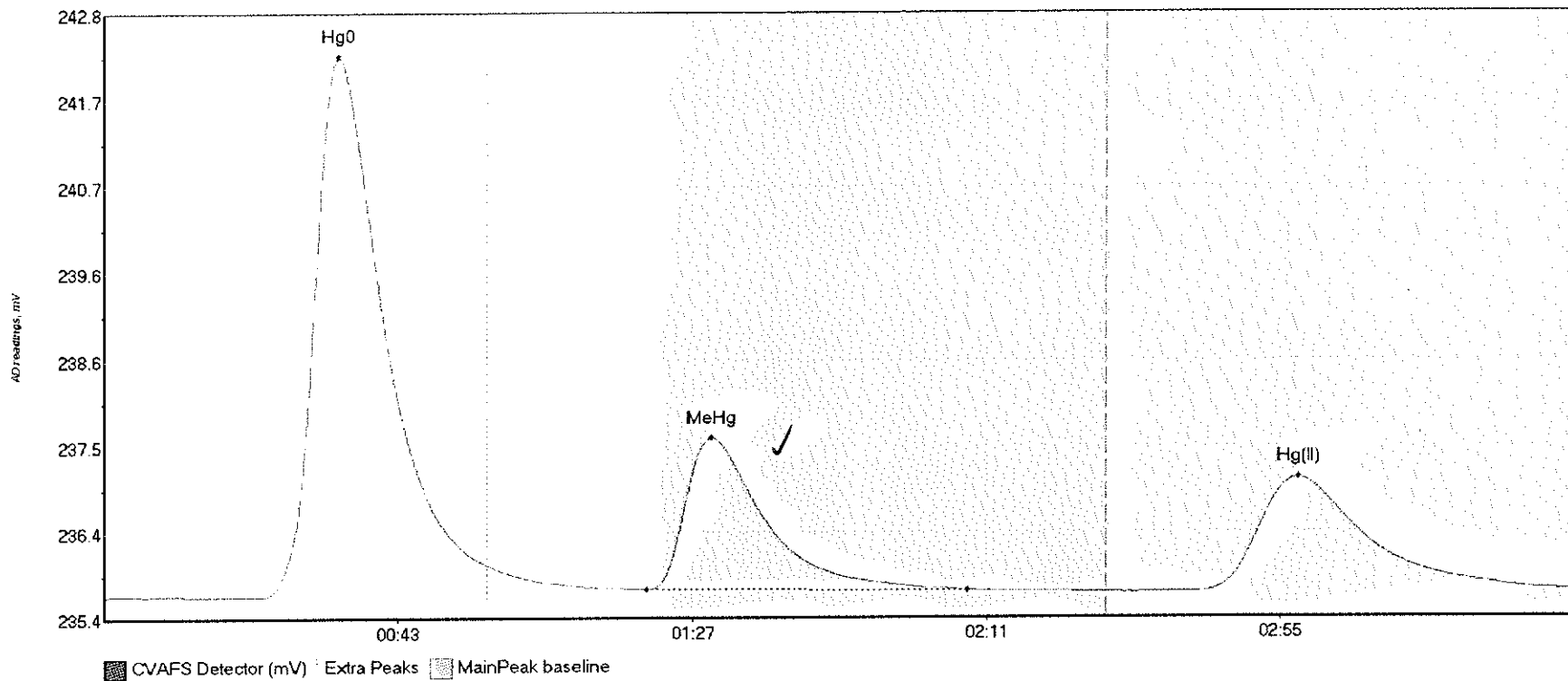
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	333.018	10.6	57.5	235.68	235.85	34.8	2.913	CF	235.6739	0.00	0.08	
SEQ-CCV5 MeHg	387.449	80.1	132.9	235.73	235.73	90.7	2.803	OK	235.6739	0.00	0.08	
SEQ-CCV5 Hg(II)	364.235	163.5	219.7	235.72	235.75	178.4	1.982	OK	235.6739	0.00	0.08	

#49: SEQ-CCB4



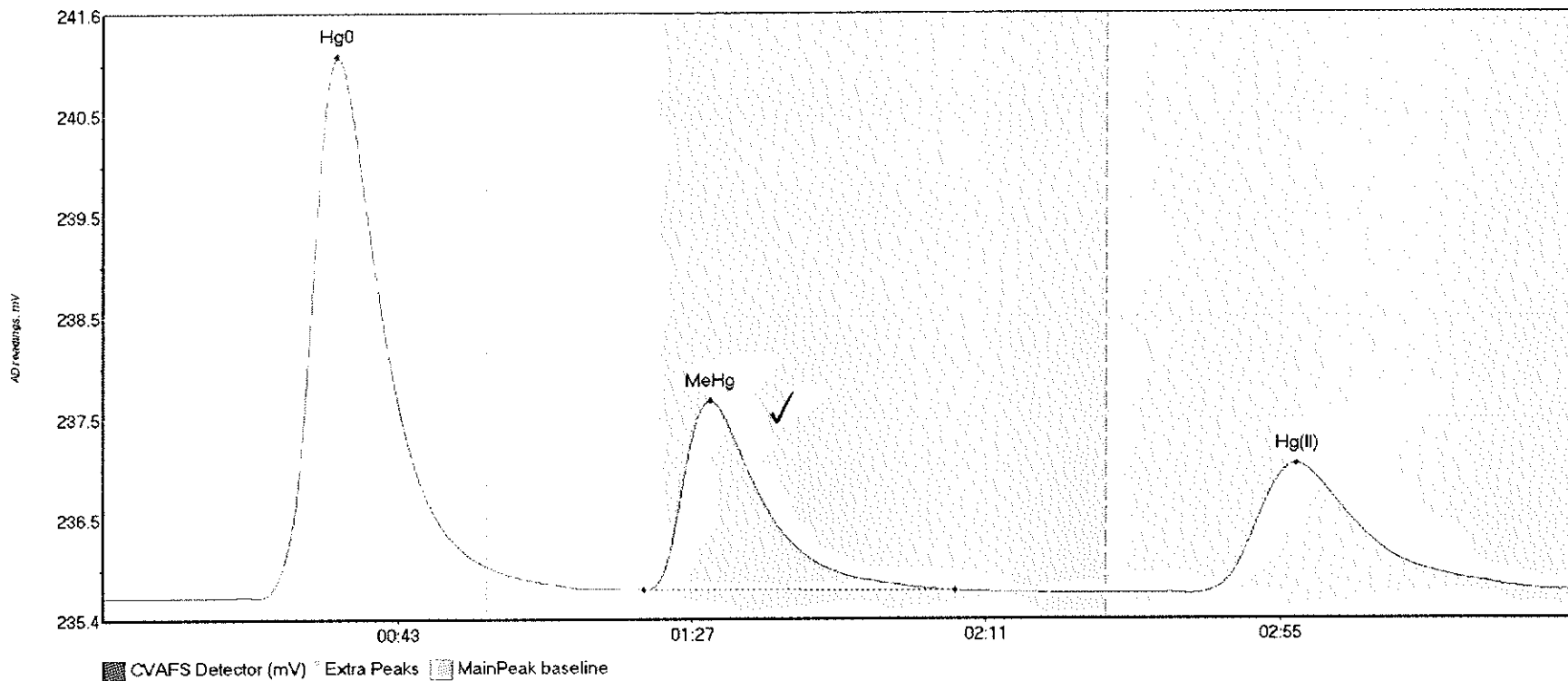
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
SEQ-CCB4 Hg0	23.721	20.9	54.1	235.67	235.70	33.0	0.198	OK	235.6714	0.00	0.02	
SEQ-CCB4 MeHg	2.503	83.9	102.2	235.69	235.69	91.4	0.026	OK	235.6714	0.00	0.02	
SEQ-CCB4 Hg(II)	44.772	153.3	215.2	235.68	235.69	179.2	0.235	OK	235.6714	0.00	0.02	

#50: SEQ-CCV6



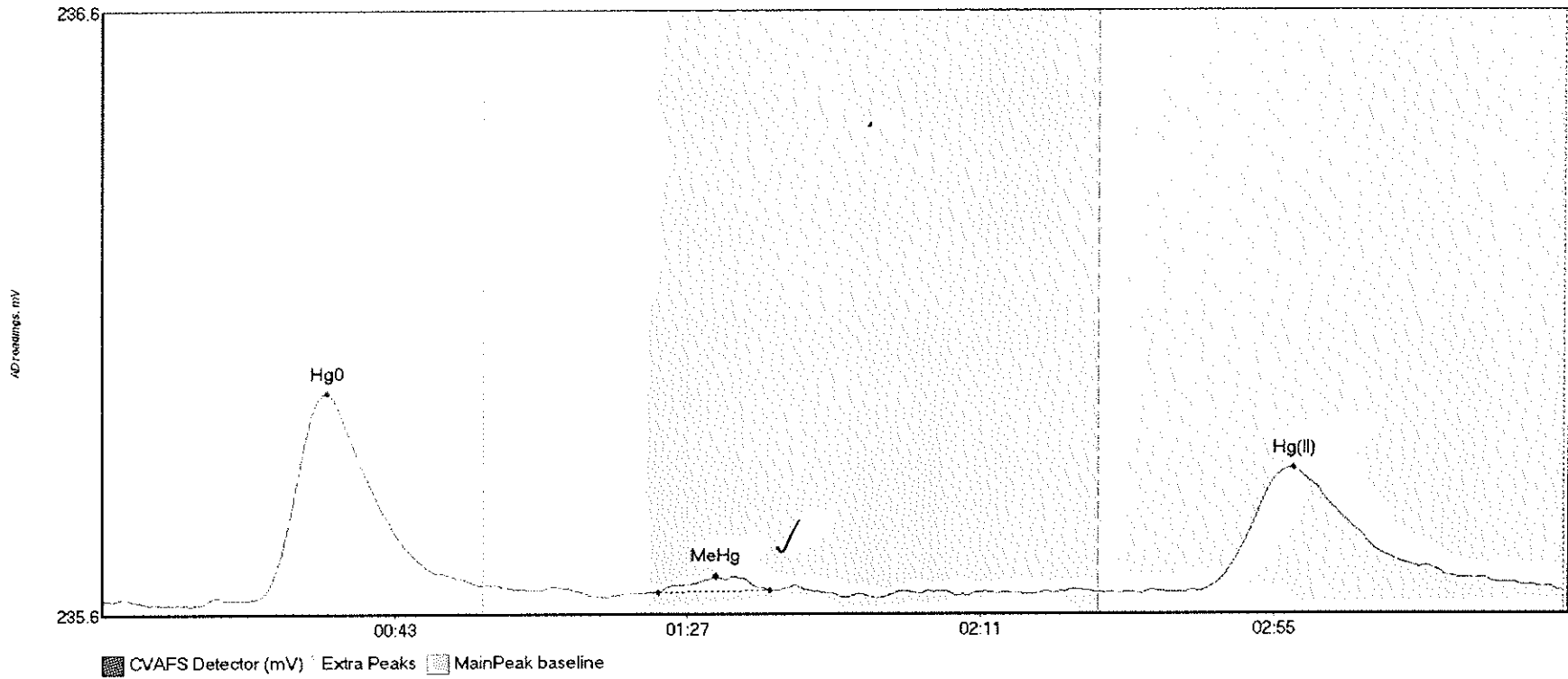
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV6 Hg0	759.978	22.6	57.5	235.65	236.03	35.2	6.629	CF	235.6599	0.00	0.07	
SEQ-CCV6 MeHg	256.079	81.1	129.1	235.73	235.72	90.9	1.869	OK	235.6599	0.00	0.07	
SEQ-CCV6 Hg(II)	255.501	160.9	219.8	235.70	235.73	178.8	1.402	CF	235.6599	0.00	0.07	

#51: SEQ-CCV7



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV7 Hg0	640.860	23.1	57.5	235.65	235.96	34.9	5.482	CF	235.6486	0.00	0.06	
SEQ-CCV7 MeHg	261.948	80.9	127.5	235.72	235.72	90.7	1.924	OK	235.6486	0.00	0.06	
SEQ-CCV7 Hg(II)	242.145	162.5	219.8	235.68	235.71	178.4	1.316	CF	235.6486	0.00	0.06	

#52: SEQ-CCB5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
SEQ-CCB5 Hg0	42.723	23.1	56.7	235.64	235.67	33.8	0.344	OK	235.6420	0.00	0.02	
SEQ-CCB5 MeHg	2.393	83.7	106.4	235.65	235.66	92.3	0.026	OK	235.6420	0.00	0.02	
SEQ-CCB5 Hg(II)	38.183	165.3	219.2	235.66	235.66	179.0	0.204	OK	235.6420	0.00	0.02	

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2015 Rev 5 (08/06/2015)

Analyst: Ryan Nelson	Sequence #: 6123010
Reviewer: DAN WEIKART	Dataset ID #: MHg27001-160923-1
Date: 9.23.16	WO #: Various
Batch #(s): F609484	Client(s): NA

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input checked="" type="checkbox"/> MHg	FGS-013 MHg Distillation	Water
<input type="checkbox"/> MHg	FGS-010 KOH/MeOH Digest	Tissue
<input type="checkbox"/> MHg	FGS-045 MeCl Extraction	Sed/Soil
<input type="checkbox"/> DMHg	FGS-098 (None Accredited method)	ALL

Analyst Initials:

Reviewer Initials:

1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)
2. Check for transcription errors from Excel spreadsheet (or Prep Bench sheet)/Raw data
 - (a) Reviewer: 100% of peak heights checked
 - (b) Are there peak height errors?
 - (c) Error on a sample: Do peak heights, responses, & initial results match corrected data?
 - (d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?
 - (e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries).
 - (f) Check and compare masses (review prep bench sheet)
 - (g) Check and compare initial and final volumes
 - (h) Do aliquots and dilutions written on benchsheet match those in Excel?
 - (i) Is the pH>3.0 for all distilled samples? _____
 - (j) Is the sequence #, analyst, date, and instrument # on the QC page?
 - (k) Is the analysis status correct? (analyzed/initial review/reviewed)
 - (l) Original prep bench sheet added to data package?
 - (m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)
3. High QA? WO#(s)/Client(s): _____
4. Client specific QC? (if Yes, refer to Project Notes/LIMS)
 - (a) Have the QC requirements been met for all WO#s?
5. 20 or fewer samples in batch? _____
 - (a) 3 PBs, 1 LCS/LCSD (or BS/BSD), 2 MS/MSD/MD per batch?
 - (b) 1 CCV and 1 CCB every 10 analytical runs? _____

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

QA/QC Data Checked

6. The calibration curve included a minimum of 5 Standards
Comments: _____
7. 1st Calibration Standard % Recoveries (65-135%)
Comments: _____
8. RSD CF (≤ 15%)
Comments: _____

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2013 Rev 4 (08/22/2013)

Analyst:	Ryan Nelson	Sequence #:	6I23010
Reviewer:	0	Dataset ID #:	MHg27001-160923-1
Date:	9/23/2016	WO #:	Various
Batch #(s):	F609484	Client(s):	NA

Analyst Initials:

RN

Reviewer Initials:

DMW

- | | | | | |
|--|--|--|---|-------------------------------------|
| 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: <i>CCV2 and CCV4 were high but investigation showed the instrument in control</i> | | | | |
| 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 type="checkbox"/> PASS | <input type="checkbox"/> FAIL | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| Comments: _____ | <input type="checkbox"/> PASS | <input type="checkbox"/> FAIL | | <input 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 type="checkbox"/> YES | <input type="checkbox"/> NO | | <input 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 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 type="checkbox"/> PASS | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| Is the sample volume, diluents, and final volume of the dilution noted on benchsheet? | <input type="checkbox"/> PASS | <input type="checkbox"/> NO | <input checked="" 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 (FGS-070) 2013 Rev 4 (08/22/2013)

Analyst:	Ryan Nelson	Sequence #:	6I23010
Reviewer:	0	Dataset ID #:	MHg27001-160923-1
Date:	9/23/2016	WO #:	Various
Batch #(s):	F609484	Client(s):	NA

Analyst Initials: *RN* **Reviewer Initials:** *DMW*

- | | | | | |
|--|---|--|---|-------------------------------------|
| 29. Are re-runs noted with reason?
Comments: <u>CCV investigation</u> | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 30. For failing QC (CCV, CCB, PB, BS/BSD, CAL):
Was a bubbler and trap test run before the analytical run continued?
Comments: _____ | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 31. Do re-run results compare to initial analysis (< 35% RPD)?
Comments: _____ | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 32. Are qualifiers consistent with the data review flowcharts?
Comments: _____ | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 33. Have non-reportable samples been imported into LIMS and clicked to non-reportable?
Comments: _____ | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 34. 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"/> |
| 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. | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO | | <input checked="" type="checkbox"/> |
| 37. Does the data set need scanning?
<u>Files located at: \\Cuprum\gen_admin\Quality Assurance\Training Master\DOCs</u> | <input checked="" type="checkbox"/> YES | | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 38. Date of analyst IDOC/CDOC: <u>7/19/2016</u> IDOC/CDOC within last 12 months? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | | <input checked="" type="checkbox"/> |
| 39. Date of analyst's SOP reading: <u>6/8/2016</u> Current SOP revision? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | | <input checked="" type="checkbox"/> |
| 40. Date of LOD: <u>7/7/2016</u> LOD within last 3 months (within 12 months for MDN)? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 41. Date of LOQ: <u>7/7/2016</u> LOQ within last 3 months (within 12 months for MDN)? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 42. If MDN samples, date of last MDL study: _____ | | | | |
| 43. MDL study within last 12 months?
Data can not be reported without a current IDOC/CDOC, LOD or LOQ. | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| Additional Comments: _____ | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO | | <input checked="" type="checkbox"/> |

RN 9/23/16



Frontier Global Sciences

MMHg27001-160928-1 WATERS

Analysis Datasheet for Methyl Mercury in Waters

Date of Analysis: September 28, 2016

Instrument #: Hg2700-1

LIMS Sequence #: 6129013, (6129018 (SCRIP)) DMW 9-30-16

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	31.77 units	635.32	30.38 units	607.52	103.4 %Rec
SEQ-CAL2	1	0.20 ng/L	119.00 units	594.98	117.61 units	588.03	100.1 %Rec
SEQ-CAL3	1	1.00 ng/L	589.88 units	589.88	588.49 units	588.49	100.2 %Rec
SEQ-CAL4	1	2.00 ng/L	1071.38 units	535.69	1069.99 units	534.99	91.1 %Rec
SEQ-CAL5	1	4.00 ng/L	2475.03 units	618.76	2473.64 units	618.41	105.3 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF 587.49
Corr. St Dev RF +/- 32.07
Corr. RSD CF 5.5% RSD
Uncorr. Mean RF 594.92
Eff Factor 0.8046

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	1.39 units		0.00 ng/L	#VALUE!

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.009 ng/L	±0.002
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: DMW 9-30-16

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber												
Hq2700-1	DM2	CAL	SEQ-IBL1	1	9/28/16 7:21	16078-1.RAW	7:21	1.39			0.0	0.000	0.000	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL1	1	9/28/16 7:32	16079-1.RAW	#####	31.77			30.4	0.052	0.052	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL2	1	9/28/16 7:42	16080-1.RAW	#####	119.00			117.6	0.200	0.200	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL3	1	9/28/16 7:53	16081-1.RAW	#####	589.88			588.5	1.002	1.002	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL4	1	9/28/16 8:03	16082-1.RAW	#####	1071.38			1070.0	1.821	1.821	ng/L	
Hq2700-1	DM2	CAL	SEQ-CAL5	1	9/28/16 8:14	16083-1.RAW	#####	2475.03			2473.6	4.211	4.211	ng/L	
Hq2700-1	DM2	CAL	SEQ-ICV1	1	9/28/16 8:24	16084-1.RAW	#####	368.78			367.4	0.625	0.625	ng/L	
Hq2700-1	DM2	CAL	SEQ-ICB1	1	9/28/16 8:35	16085-1.RAW	#####	7.37			6.0	0.010	0.010	ng/L	
Hq2700-1	DM2	SAM	F609569-BS1	1.25	9/28/16 8:45	16086-1.RAW	#####	420.61	1		419.2	0.879	1.099	ng/L	
Hq2700-1	DM2	SAM	F609569-BSD1	1.25	9/28/16 8:56	16087-1.RAW	#####	411.77	1		410.4	0.861	1.076	ng/L	
Hq2700-1	DM2	BLK	F609569-BLK1	1.25	9/28/16 9:06	16088-1.RAW	#####	5.40	1		4.0	0.008	0.011	ng/L	
Hq2700-1	DM2	BLK	F609569-BLK2	1.25	9/28/16 9:17	16089-1.RAW	#####	5.44	1		4.0	0.009	0.011	ng/L	
Hq2700-1	DM2	BLK	F609569-BLK3	1.25	9/28/16 9:27	16090-1.RAW	#####	4.08	1		2.7	0.006	0.007	ng/L	
Hq2700-1	DM2	SAM	F609569-DUP1	1.25	9/28/16 9:38	16091-1.RAW	#####	43.65	1		42.3	0.082	0.102	ng/L	
Hq2700-1	DM2	SAM	F609569-MS1	1.25	9/28/16 9:48	16092-1.RAW	#####	563.41	1		562.0	1.181	1.477	ng/L	
Hq2700-1	DM2	SAM	F609569-MSD1	1.25	9/28/16 9:59	16093-1.RAW	#####	556.92	1		555.5	1.168	1.460	ng/L	
Hq2700-1	DM2	SAM	F609569-MS2	1.25	9/28/16 10:09	16094-1.RAW	#####	546.59	1		545.2	1.146	1.432	ng/L	
Hq2700-1	DM2	SAM	F609569-MSD2	1.25	9/28/16 10:20	16095-1.RAW	#####	575.92	1		574.5	1.208	1.510	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV1	1	9/28/16 10:30	16096-1.RAW	#####	384.88			383.5	0.653	0.653	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB1	1	9/28/16 10:41	16097-1.RAW	#####	5.56			4.2	0.007	0.007	ng/L	
Hq2700-1	DM2	SAM	1608980-01RE1	1.25	9/28/16 10:51	16098-1.RAW	#####	49.37	1		48.0	0.094	0.117	ng/L	
Hq2700-1	DM2	SAM	1608980-02RE1	1.25	9/28/16 11:02	16099-1.RAW	#####	52.78	1		51.4	0.101	0.126	ng/L	
Hq2700-1	DM2	SAM	1608980-03RE1	1.25	9/28/16 11:12	16100-1.RAW	#####	47.06	1		45.7	0.089	0.111	ng/L	
Hq2700-1	DM2	SAM	1608980-04RE1	1.25	9/28/16 11:23	16101-1.RAW	#####	54.83	1		53.4	0.105	0.132	ng/L	
Hq2700-1	DM2	SAM	1608980-05RE1	1.25	9/28/16 11:33	16102-1.RAW	#####	68.80	1		67.4	0.135	0.169	ng/L	
Hq2700-1	DM2	SAM	1608980-06RE1	1.25	9/28/16 11:44	16103-1.RAW	#####	25.96	1		24.6	0.044	0.055	ng/L	
Hq2700-1	DM2	SAM	1608981-12RE1	1.25	9/28/16 11:54	16104-1.RAW	#####	12.57	1		11.2	0.016	0.020	ng/L	
Hq2700-1	DM2	SAM	1608981-13RE1	1.25	9/28/16 12:05	16105-1.RAW	#####	151.74	1		150.4	0.311	0.388	ng/L	
Hq2700-1	DM2	SAM	1608981-14RE1	1.25	9/28/16 12:15	16106-1.RAW	#####	28.51	1		27.1	0.050	0.062	ng/L	
Hq2700-1	DM2	SAM	1608981-15RE1	1.25	9/28/16 12:26	16107-1.RAW	#####	92.37	1		91.0	0.185	0.231	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV2	1	9/28/16 12:37	16108-1.RAW	#####	345.88			344.5	0.586	0.586	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB2	1	9/28/16 12:47	16109-1.RAW	#####	3.35			2.0	0.003	0.003	ng/L	
Hq2700-1	DM2	SAM	1608981-16RE1	1.25	9/28/16 12:58	16110-1.RAW	#####	59.05	1		57.7	0.114	0.143	ng/L	
Hq2700-1	DM2	SAM	1608981-17RE1	1.25	9/28/16 13:08	16111-1.RAW	#####	76.19	1		74.8	0.151	0.188	ng/L	
Hq2700-1	DM2	SAM	1608981-18RE1	1.25	9/28/16 13:19	16112-1.RAW	#####	49.45	1		48.1	0.094	0.118	ng/L	
Hq2700-1	DM2	SAM	1609068-01RE1	1.25	9/28/16 13:29	16113-1.RAW	#####	1.66	1		0.3	-0.007	-0.009	ng/L	
Hq2700-1	DM2	SAM	1609068-02RE1	1.25	9/28/16 13:40	16114-1.RAW	#####	51.45	1		50.1	0.098	0.123	ng/L	
Hq2700-1	DM2	SAM	1609068-03RE1	1.25	9/28/16 13:50	16115-1.RAW	#####	44.32	1		42.9	0.083	0.104	ng/L	
Hq2700-1	DM2	SAM	1609068-04RE1	1.25	9/28/16 14:01	16116-1.RAW	#####	40.03	1		38.6	0.074	0.093	ng/L	
Hq2700-1	DM2	SAM	1609068-05RE1	1.25	9/28/16 14:11	16117-1.RAW	#####	57.22	1		55.8	0.111	0.138	ng/L	
Hq2700-1	DM2	SAM	1609068-06RE1	1.25	9/28/16 14:22	16118-1.RAW	#####	60.56	1		59.2	0.118	0.147	ng/L	
Hq2700-1	DM2	SAM	1609068-07RE1	1.25	9/28/16 14:32	16119-1.RAW	#####	8.38	1		7.0	0.007	0.009	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCV3	1	9/28/16 14:43	16120-1.RAW	#####	344.87			343.5	0.585	0.585	ng/L	
Hq2700-1	DM2	CAL	SEQ-CCB3	1	9/28/16 14:53	16121-1.RAW	#####	3.41			2.0	0.003	0.003	ng/L	



Frontier Global Sciences

MMHg27001-160928-1 SOLIDS

Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: September 28, 2016

Analyst: DM2

Instrument #: Hg2700-1

Units ng/L

LIMS Sequence #: 6I29018

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	31.77 units	635.32	30.38 units	607.52	103.4 %Rec
SEQ-CAL2	1	0.20 ng/L	119.00 units	594.98	117.61 units	588.03	100.1 %Rec
SEQ-CAL3	1	1.00 ng/L	589.88 units	589.88	588.49 units	588.49	100.2 %Rec
SEQ-CAL4	1	2.00 ng/L	1071.38 units	535.69	1069.99 units	534.99	91.1 %Rec
SEQ-CAL5	1	4.00 ng/L	2475.03 units	618.76	2473.64 units	618.41	105.3 %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
587.49	+/- 32.07	5.5% RSD	594.92

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	1.39 units		0.00 ng/L	#VALUE!

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.231 ng/L	±0.424
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	

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	9/28/16 7:21	16078-1.RAW	7:21:38	1.39			0.0	0.000	0.000	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL1	1	9/28/16 7:32	16079-1.RAW	7:32:09	31.77			30.4	0.052	0.052	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL2	1	9/28/16 7:42	16080-1.RAW	7:42:40	119.00			117.6	0.200	0.200	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL3	1	9/28/16 7:53	16081-1.RAW	7:53:10	589.88			588.5	1.002	1.002	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL4	1	9/28/16 8:03	16082-1.RAW	8:03:41	1071.38			1070.0	1.821	1.821	ng/L	
Hg2700-1	DM2	CAL	SEQ-CAL5	1	9/28/16 8:14	16083-1.RAW	8:14:12	2475.03			2473.6	4.211	4.211	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICV1	1	9/28/16 8:24	16084-1.RAW	8:24:42	368.78			367.4	0.625	0.625	ng/L	
Hg2700-1	DM2	CAL	SEQ-ICB1	1	9/28/16 8:35	16085-1.RAW	8:35:13	7.37			6.0	0.010	0.010	ng/L	
Hg2700-1	DM2	SAM	F609569-BS1	1.25	9/28/16 8:45	16086-1.RAW	8:45:44	420.61		X	419.2	0.714	0.892	ng/L	
Hg2700-1	DM2	SAM	F609569-BSD1	1.25	9/28/16 8:56	16087-1.RAW	8:56:14	411.77		X	410.4	0.699	0.873	ng/L	
Hg2700-1	DM2	BLK	F609569-BLK1	1.25	9/28/16 9:06	16088-1.RAW	9:06:45	5.40		X	4.0	0.007	0.009	ng/L	
Hg2700-1	DM2	BLK	F609569-BLK2	1.25	9/28/16 9:17	16089-1.RAW	9:17:17	5.44		X	4.0	0.007	0.009	ng/L	
Hg2700-1	DM2	BLK	F609569-BLK3	1.25	9/28/16 9:27	16090-1.RAW	9:27:48	4.08		X	2.7	0.005	0.006	ng/L	
Hg2700-1	DM2	SAM	F609569-DUP1	1.25	9/28/16 9:38	16091-1.RAW	9:38:19	43.65		X	42.3	0.072	0.090	ng/L	
Hg2700-1	DM2	SAM	F609569-MS1	1.25	9/28/16 9:48	16092-1.RAW	9:48:49	563.41		X	562.0	0.957	1.196	ng/L	
Hg2700-1	DM2	SAM	F609569-MSD1	1.25	9/28/16 9:59	16093-1.RAW	9:59:20	556.92		X	555.5	0.946	1.182	ng/L	
Hg2700-1	DM2	SAM	F609569-MS2	1.25	9/28/16 10:09	16094-1.RAW	10:09:51	546.59		X	545.2	0.928	1.160	ng/L	
Hg2700-1	DM2	SAM	F609569-MSD2	1.25	9/28/16 10:20	16095-1.RAW	10:20:21	575.92		X	574.5	0.978	1.222	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV1	1	9/28/16 10:30	16096-1.RAW	10:30:52	384.88			383.5	0.653	0.653	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB1	1	9/28/16 10:41	16097-1.RAW	10:41:23	5.56			4.2	0.007	0.007	ng/L	
Hg2700-1	DM2	SAM	1608980-01RE1	1.25	9/28/16 10:51	16098-1.RAW	10:51:53	49.37		X	48.0	0.082	0.102	ng/L	
Hg2700-1	DM2	SAM	1608980-02RE1	1.25	9/28/16 11:02	16099-1.RAW	11:02:24	52.78		X	51.4	0.087	0.109	ng/L	
Hg2700-1	DM2	SAM	1608980-03RE1	1.25	9/28/16 11:12	16100-1.RAW	11:12:55	47.06		X	45.7	0.078	0.097	ng/L	
Hg2700-1	DM2	SAM	1608980-04RE1	1.25	9/28/16 11:23	16101-1.RAW	11:23:25	54.83		X	53.4	0.091	0.114	ng/L	
Hg2700-1	DM2	SAM	1608980-05RE1	1.25	9/28/16 11:33	16102-1.RAW	11:33:56	68.80		X	67.4	0.115	0.143	ng/L	
Hg2700-1	DM2	SAM	1608980-06RE1	1.25	9/28/16 11:44	16103-1.RAW	11:44:27	25.96		X	24.6	0.042	0.052	ng/L	
Hg2700-1	DM2	SAM	1608981-12RE1	1.25	9/28/16 11:54	16104-1.RAW	11:54:57	12.57		X	11.2	0.019	0.024	ng/L	
Hg2700-1	DM2	SAM	1608981-13RE1	1.25	9/28/16 12:05	16105-1.RAW	12:05:28	151.74		X	150.4	0.256	0.320	ng/L	
Hg2700-1	DM2	SAM	1608981-14RE1	1.25	9/28/16 12:15	16106-1.RAW	12:15:59	28.51		X	27.1	0.046	0.058	ng/L	
Hg2700-1	DM2	SAM	1608981-15RE1	1.25	9/28/16 12:26	16107-1.RAW	12:26:29	92.37		X	91.0	0.155	0.194	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV2	1	9/28/16 12:37	16108-1.RAW	12:37:00	345.88			344.5	0.586	0.586	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB2	1	9/28/16 12:47	16109-1.RAW	12:47:31	3.35			2.0	0.003	0.003	ng/L	
Hg2700-1	DM2	SAM	1608981-16RE1	1.25	9/28/16 12:58	16110-1.RAW	12:58:01	59.05		X	57.7	0.098	0.123	ng/L	
Hg2700-1	DM2	SAM	1608981-17RE1	1.25	9/28/16 13:08	16111-1.RAW	13:08:32	76.19		X	74.8	0.127	0.159	ng/L	
Hg2700-1	DM2	SAM	1608981-18RE1	1.25	9/28/16 13:19	16112-1.RAW	13:19:03	49.45		X	48.1	0.082	0.102	ng/L	
Hg2700-1	DM2	SAM	1609068-01RE1	1.25	9/28/16 13:29	16113-1.RAW	13:29:33	1.66		X	0.3	0.000	0.001	ng/L	
Hg2700-1	DM2	SAM	1609068-02RE1	1.25	9/28/16 13:40	16114-1.RAW	13:40:04	51.45		X	50.1	0.085	0.107	ng/L	
Hg2700-1	DM2	SAM	1609068-03RE1	1.25	9/28/16 13:50	16115-1.RAW	13:50:35	44.32		X	42.9	0.073	0.091	ng/L	
Hg2700-1	DM2	SAM	1609068-04RE1	1.25	9/28/16 14:01	16116-1.RAW	14:01:06	40.03		X	38.6	0.066	0.082	ng/L	
Hg2700-1	DM2	SAM	1609068-05RE1	1.25	9/28/16 14:11	16117-1.RAW	14:11:36	57.22		X	55.8	0.095	0.119	ng/L	
Hg2700-1	DM2	SAM	1609068-06RE1	1.25	9/28/16 14:22	16118-1.RAW	14:22:07	60.56		X	59.2	0.101	0.126	ng/L	
Hg2700-1	DM2	SAM	1609068-07RE1	1.25	9/28/16 14:32	16119-1.RAW	14:32:38	8.38		X	7.0	0.012	0.015	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV3	1	9/28/16 14:43	16120-1.RAW	14:43:08	344.87			343.5	0.585	0.585	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB3	1	9/28/16 14:53	16121-1.RAW	14:53:39	3.41			2.0	0.003	0.003	ng/L	
Hg2700-1	DM2	BLK	F609558-BLK1	500	9/28/16 15:04	16122-1.RAW	15:04:10	2.12		1	0.7	0.001	0.619	ng/L	
Hg2700-1	DM2	BLK	F609558-BLK2	500	9/28/16 15:14	16123-1.RAW	15:14:40	1.13		1	-0.3	0.000	-0.222	ng/L	

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments
		Response	Correction?					RESP							
Hg2700-1	DM2	BLK	#F609558-BLK3	500	9/28/16 15:25	16124-1.RAW	15:25:11	1.74	1		0.3	0.001	0.295	ng/L	
Hg2700-1	DM2	SAM	#F609558-BS1	1000	9/28/16 15:35	16125-1.RAW	15:35:42	1091.58	1		1090.2	1.855	1855.456	ng/L	
Hg2700-1	DM2	SAM	#F609558-BSD1	1000	9/28/16 15:46	16126-1.RAW	15:46:12	1121.18	1		1119.8	1.906	1905.836	ng/L	
Hg2700-1	DM2	SAM	#1608793-07	1000	9/28/16 15:56	16127-1.RAW	15:56:43	386.70	1		385.3	0.656	655.626	ng/L	
Hg2700-1	DM2	SAM	#1608793-08	1000	9/28/16 16:07	16128-1.RAW	16:07:14	608.81	1		607.4	1.034	1033.696	ng/L	
Hg2700-1	DM2	SAM	#1608793-09	1000	9/28/16 16:17	16129-1.RAW	16:17:44	275.97	1		274.6	0.467	467.157	ng/L	
Hg2700-1	DM2	SAM	#1608793-10	1000	9/28/16 16:28	16130-1.RAW	16:28:15	512.84	1		511.5	0.870	870.339	ng/L	
Hg2700-1	DM2	SAM	#1608793-11	1000	9/28/16 16:38	16131-1.RAW	16:38:46	647.58	1		646.2	1.100	1099.694	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV4	1	9/28/16 16:49	16132-1.RAW	16:49:16	332.47			331.1	0.564	0.564	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB4	1	9/28/16 16:59	16133-1.RAW	16:59:47	5.24			3.8	0.007	0.007	ng/L	
Hg2700-1	DM2	SAM	#1608793-12	1000	9/28/16 17:10	16134-1.RAW	17:10:18	325.52	1		324.1	0.551	551.492	ng/L	
Hg2700-1	DM2	SAM	#1608793-13	1000	9/28/16 17:20	16135-1.RAW	17:20:48	764.79	1		763.4	1.299	1299.199	ng/L	
Hg2700-1	DM2	SAM	#1608793-14	1000	9/28/16 17:31	16136-1.RAW	17:31:19	810.50	1		809.1	1.377	1377.011	ng/L	
Hg2700-1	DM2	SAM	#1608793-15	1000	9/28/16 17:41	16137-1.RAW	17:41:50	846.07	1		844.7	1.438	1437.555	ng/L	
Hg2700-1	DM2	SAM	#1608793-16	1000	9/28/16 17:52	16138-1.RAW	17:52:20	1419.50	1		1418.1	2.414	2413.625	ng/L	
Hg2700-1	DM2	SAM	#1608793-17	1000	9/28/16 18:02	16139-1.RAW	18:02:51	1594.20	1		1592.8	2.711	2710.983	ng/L	
Hg2700-1	DM2	SAM	#1608793-18	1000	9/28/16 18:13	16140-1.RAW	18:13:22	688.60	1		687.2	1.170	1169.511	ng/L	
Hg2700-1	DM2	SAM	#1608793-19	1000	9/28/16 18:23	16141-1.RAW	18:23:53	1255.55	1		1254.2	2.135	2134.552	ng/L	
Hg2700-1	DM2	SAM	#1608793-20	1000	9/28/16 18:34	16142-1.RAW	18:34:24	433.68	1		432.3	0.736	735.589	ng/L	
Hg2700-1	DM2	SAM	#1608793-21	1000	9/28/16 18:44	16143-1.RAW	18:44:55	1409.78	1		1408.4	2.397	2397.071	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV5	1	9/28/16 18:55	16144-1.RAW	18:55:26	348.35			347.0	0.591	0.591	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB5	1	9/28/16 19:05	16145-1.RAW	19:05:57	6.86			5.5	0.009	0.009	ng/L	
Hg2700-1	DM2	SAM	#1608793-22	1000	9/28/16 19:16	16146-1.RAW	19:16:27	573.18	1		571.8	0.973	973.044	ng/L	
Hg2700-1	DM2	SAM	#1608793-23	1000	9/28/16 19:26	16147-1.RAW	19:26:58	844.73	1		843.3	1.435	1435.263	ng/L	
Hg2700-1	DM2	SAM	#1608793-24	1000	9/28/16 19:37	16148-1.RAW	19:37:29	446.22	1		444.8	0.757	756.946	ng/L	
Hg2700-1	DM2	SAM	#1608793-25	1000	9/28/16 19:48	16149-1.RAW	19:48:00	776.91	1		775.5	1.320	1319.827	ng/L	
Hg2700-1	DM2	SAM	#1608793-26	1000	9/28/16 19:58	16150-1.RAW	19:58:30	663.71	1		662.3	1.127	1127.136	ng/L	
Hg2700-1	DM2	SAM	#F609558-DUP1	1000	9/28/16 20:09	16151-1.RAW	20:09:01	816.89	1		815.5	1.388	1387.879	ng/L	
Hg2700-1	DM2	SAM	#F609558-MSL	1000	9/28/16 20:19	16152-1.RAW	20:19:32	970.38	1		969.0	1.649	1649.147	ng/L	
Hg2700-1	DM2	SAM	#F609558-MSD1	1000	9/28/16 20:30	16153-1.RAW	20:30:02	1041.47	1		1040.0	1.770	1770.045	ng/L	
Hg2700-1	DM2	SAM	#F609558-MS2	1000	9/28/16 20:40	16154-1.RAW	20:40:33	860.57	1		859.2	1.462	1462.228	ng/L	
Hg2700-1	DM2	SAM	#F609558-MSD2	1000	9/28/16 20:51	16155-1.RAW	20:51:04	811.56	1		810.2	1.379	1378.802	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCV6	1	9/28/16 21:01	16156-1.RAW	21:01:35	369.22			367.8	0.626	0.626	ng/L	
Hg2700-1	DM2	CAL	SEQ-CCB6	1	9/28/16 21:12	16157-1.RAW	21:12:05	8.51			7.1	0.012	0.012	ng/L	

MethylMercury EPA1630 Operat DM BlankS 1.3899 Calib Eqn: Conc = (Area-1.390) / 587.4; Run Date: ##### Blank SD: 0
 Workst MHq2700 CalibFa 587.49 Status: OK,1 Warnings Run Time: 6:55:06 Blank RSt: 0
 Method 2010-01 R: 0.9977 R2: 0.995468452 CalibAnal# MeHg CF SD: 32.07154477
 Descrip MHq27001-160928-1 CF RSD% 5.459091188

Sample/ID	Location	Rinse	Dilute	Blank	ConcHg0(p)	ConcMeHg(ppb)	ConcHg2(p)	ConcPrHg(μg)	Rec%	QA	RawData	RunEnd	PeakHg0 (Raw)	PeakMeHg (R)	PeakHg2(Raw)	PeakPrHg(Raw)	Control (etf)	Flags	RunCount
Clean				0	0.002714188	0.010249					16076-1.RAW		0	1.59455492	6.02114925	0	cleandry	CT	1
WS	A1										16077-1.RAW		16.3890152	0	23.9560606	0	psample10	OK	1
SEQ-IBL1	A2	1	0	0.0553734	0.002365777	0.0443899					16078-1.RAW		32.5312263	1.38986742	26.0785748	0	psample10	OK	1
SEQ-CAL1	A3	1	1.3899	0.0629559	0.051705055	0.0351551		103.41			16079-1.RAW		38.3757339	31.7660038	22.0431108	0	psample10	OK	1
SEQ-CAL2	A4	1	1.3899	0.078095	0.200184091	0.0401245		100.09			16080-1.RAW		47.2697917	118.995762	24.9625473	0	psample10	CT	1
SEQ-CAL3	A5	1	1.3899	0.1570805	1.001699283	0.0453901		100.17			16081-1.RAW		93.6729167	589.876894	28.0560133	0	psample10	CT	1
SEQ-CAL4	A6	1	1.3899	0.375109	1.821294368	0.0605718		91.06			16082-1.RAW		221.762177	1071.37976	36.975142	0	psample10	CT	1
SEQ-CAL5	A7	1	1.3899	0.5549873	4.210527915	0.0801861		105.26			16083-1.RAW		327.438657	2475.02751	48.4983191	0	psample10	CT	1
SEQ-ICV1	A8	1	1.3899	0.4569913	0.625355982	0.49471		125.23			16084-1.RAW		269.867119	368.779451	292.026437	0	psample10	CT	1
SEQ-ICB1	A9	1	1.3899	0.059225	0.010180805	0.0467131		0.00			16085-1.RAW		36.1839015	7.37097538	28.833286	0	psample10	CT	1
F609569-BS1	A10	1.25	1.3899	0.0850779	0.891981237	0.0594318					16086-1.RAW		41.3757102	420.612997	29.3222538	0	psample10	CT	1
F609569-BSD1	A11	1.25	1.3899	0.117372	0.873176022	0.0484697					16087-1.RAW		56.5536439	411.774716	24.1701705	0	psample10	CT	1
F609569-BLK1	A12	1.25	1.3899	0.0458025	0.008530346	0.0607258					16088-1.RAW		22.916643	5.39905303	29.93043	0	psample10	CT	1
F609569-BLK2	A13	1.25	1.3899	0.0459806	0.008609933	0.0649032					16089-1.RAW		23.0003246	5.43645833	31.8937973	0	psample10	OK	1
F609569-BLK3	A14	1.25	1.3899	0.0384243	0.005724441	0.0695502					16090-1.RAW		19.4489347	4.08030303	34.0778409	0	psample10	CT	1
F609569-DUP1	A15	1.25	1.3899	0.0474308	0.089909145	0.1038802					16091-1.RAW		23.6819129	43.6463542	50.212642	0	psample10	OK	1
F609569-MS1	A16	1.25	1.3899	0.0769658	1.195804921	0.3733796		119.58			16092-1.RAW		37.5631155	563.407386	176.874905	0	psample10	CT	1
F609569-MSD1	A17	1.25	1.3899	0.0752467	1.181999248	0.370386					16093-1.RAW		36.7551373	556.918845	175.467934	0	psample10	CT	1
F609569-MS2	A18	1.25	1.3899	0.0465786	1.160026711	0.143059		58.00			16094-1.RAW		23.2814006	546.591951	68.6263258	0	psample10	CT	1
F609569-MSD2	A19	1.25	1.3899	0.0504162	1.222420721	0.1835942					16095-1.RAW		25.0850142	575.916572	87.6774621	0	psample10	OK	1
SEQ-CCV1	A20	1	1.3899	0.4347912	0.652767211	0.5188581		130.72			16096-1.RAW		256.824803	384.883239	306.213117	0	psample10	CT	1
SEQ-CCB1	A21	1	1.3899	0.0312412	0.007091287	0.0576424		0.00			16097-1.RAW		19.7437027	5.55591856	35.2541193	0	psample10	OK	1
1608980-01RE1	B1	1.25	1.3899	0.0584464	0.102096376	0.1275771					16098-1.RAW		28.8591661	49.3742424	61.3499527	0	psample10	OK	1
1608980-02RE1	B2	1.25	1.3899	0.043065	0.10934179	0.1159153					16099-1.RAW		21.6300426	52.7795218	55.8690341	0	psample10	OK	1
1608980-03RE1	B3	1.25	1.3899	0.0348036	0.097164332	0.083308					16100-1.RAW		17.7472538	47.0562263	40.5438886	0	psample10	CT	1
1608980-04RE1	B4	1.25	1.3899	0.0347985	0.113708412	0.1021954					16101-1.RAW		17.7448627	54.8317945	49.420786	0	psample10	OK	1
1608980-05RE1	B5	1.25	1.3899	0.0364985	0.143420056	0.1640561					16102-1.RAW		18.543824	68.7959991	78.4947443	0	psample10	OK	1
1608980-06RE1	B6	1.25	1.3899	0.0271381	0.052271515	0.0627376					16103-1.RAW		14.1445313	25.9570076	30.8752367	0	psample10	CT	1
1608981-12RE1	B7	1.25	1.3899	0.0288262	0.023791056	0.0726478					16104-1.RAW		14.9379261	12.5714489	35.5336884	0	psample10	OK	1
1608981-13RE1	B8	1.25	1.3899	0.0508425	0.319907317	0.2946297					16105-1.RAW		25.2853693	151.743419	139.863149	0	psample10	CT	1
1608981-14RE1	B9	1.25	1.3899	0.0323209	0.057703649	0.0811689					16106-1.RAW		16.58038	28.5100616	39.5384943	0	psample10	OK	1
1608981-15RE1	B10	1.25	1.3899	0.0460382	0.193568353	0.4065739					16107-1.RAW		23.0273911	92.3652462	192.475941	0	psample10	CT	1
SEQ-CCV2	B11	1	1.3899	0.7790973	0.586372359	0.51327		117.42			16108-1.RAW		459.100758	345.877012	302.930199	0	psample10	CT	1
SEQ-CCB2	B12	1	1.3899	0.031061	0.003335251	0.0649116		0.00			16109-1.RAW		19.6378267	3.34928977	39.5247159	0	psample10	OK	1
1608981-16RE1	B13	1.25	1.3899	0.0460895	0.122673516	0.2377519					16110-1.RAW		23.0515233	59.0453125	113.131132	0	psample10	CT	1
1608981-17RE1	B14	1.25	1.3899	0.0722956	0.159149625	0.2947875					16111-1.RAW		35.3681345	76.1887547	139.937308	0	psample10	CT	1
1608981-18RE1	B15	1.25	1.3899	0.0416284	0.102254895	0.1134241					16112-1.RAW		20.9548207	49.4487453	54.6981534	0	psample10	CT	1
1609068-01RE1	B16	1.25	1.3899	0.0233305	0.000565271	0.0491191					16113-1.RAW		12.3549716	1.65553977	24.4753788	0	psample10	OK	1
1609068-02RE1	B17	1.25	1.3899	0.0340701	0.106517399	0.1402775					16114-1.RAW		17.4025095	51.4520833	67.3190215	0	psample10	CT	1
1609068-03RE1	B18	1.25	1.3899	0.0269428	0.091333657	0.0958646					16115-1.RAW		14.0527462	44.3158617	46.4453835	0	psample10	OK	1
1609068-04RE1	B19	1.25	1.3899	0.0235326	0.082212955	0.0822358					16116-1.RAW		12.45	40.029214	40.0399621	0	psample10	OK	1
1609068-05RE1	B20	1.25	1.3899	0.0406893	0.118784418	0.1439423					16117-1.RAW		20.5134943	57.2174716	69.0414442	0	psample10	CT	1
1609068-06RE1	B21	1.25	1.3899	0.0273768	0.125895189	0.1630454					16118-1.RAW		14.2567235	60.5594697	78.0197379	0	psample10	CT	1
1609068-07RE1	C1	1.25	1.3899	0.0238917	0.014867206	0.0793114					16119-1.RAW		12.61875	8.37732008	38.6655264	0	psample10	CT	1
SEQ-CCV3	C2	1	1.3899	0.5540254	0.584650775	0.4729104		117.08			16120-1.RAW		326.873565	344.865601	279.219408	0	psample10	CT	1
SEQ-CCB3	C3	1	1.3899	0.0216627	0.003443812	0.051178		0.00			16121-1.RAW		14.1164299	3.41306818	31.4563679	0	psample10	CT	1
F609558-BLK1	C4	500	1.3899	9.0958388	0.619189036	42.38746					16122-1.RAW		12.0772727	2.11740057	51.1941761	0	psample10	OK	1
F609558-BLK2	C5	500	1.3899	11.484505	-0.222421261	46.324209					16123-1.RAW		14.8839015	1.12852746	55.819768	0	psample10	OK	1
F609558-BLK3	C6	500	1.3899	10.080223	0.29515799	49.04555					16124-1.RAW		13.2339015	1.7366714	59.0172822	0	psample10	OK	1
F609558-BS1	C7	1000	1.3899	177.65844	1855.686751	567.57839					16125-1.RAW		105.762195	1091.5849	334.835768	0	psample10	CT	1
F609558-BSD1	C8	1000	1.3899	200.48193	1906.066829	578.45531					16126-1.RAW		119.170739	1121.18262	341.225837	0	psample10	CT	1
1608793-07	C9	1000	1.3899	93.231102	655.856487	107.40632					16127-1.RAW		56.1620879	386.698153	64.4898674	0	psample10	OK	1
1608793-08	C10	1000	1.3899	111.00697	1033.926933	105.35994					16128-1.RAW		66.6052083	608.810275	63.287642	0	psample10	CT	1
1608793-09	C11	1000	1.3899	93.958768	467.3876433	90.37601					16129-1.RAW		56.5895833	275.974834	54.4847538	0	psample10	CT	1
1608793-10	C12	1000	1.3899	94.879079	870.5701126	114.13074					16130-1.RAW		57.1302557	512.839986	68.4403883	0	psample10	OK	1

1608793-11	-	C13	1000	1.3899	112.52251	1099.924735	104.80327			16131-1.RAW	67.4955729	647.583239	62.9606061	0	psample10	CT	1
SEQ-CCV4	-	C14	1	1.3899	0.7279026	0.563544833	0.4959941	112.85		16132-1.RAW	429.024449	332.466098	292.780806	0	psample10	CT	1
SEQ-CCB4	-	C15	1	1.3899	0.0576328	0.006545419	0.048527	0.00		16133-1.RAW	35.2484848	5.2352727	29.8989583	0	psample10	CT	1
1608793-12	-	C16	1000	1.3899	84.019264	551.7223546	104.46735			16134-1.RAW	50.7502367	325.520526	62.7632576	0	psample10	CT	1
1608793-13	-	C17	1000	1.3899	110.67234	1299.429292	105.73688			16135-1.RAW	66.4086174	764.789915	63.5090909	0	psample10	CT	1
1608793-14	-	C18	1000	1.3899	103.28045	1377.242118	129.39804			16136-1.RAW	62.0659636	810.504072	77.4097538	0	psample10	OK	1
1608793-15	-	C19	1000	1.3899	106.69668	1437.78535	110.58973		17:31:19	16137-1.RAW	64.072964	846.072538	66.3600852	0	psample10	CT	1
1608793-16	-	C20	1000	1.3899	163.52289	2413.855756	134.71422			16138-1.RAW	97.4577178	1419.50289	80.5329545	0	psample10	CT	1
1608793-17	-	C21	1000	1.3899	164.46004	2711.21374	131.14501			16139-1.RAW	98.008286	1594.19735	78.4360795	0	psample10	CT	1
1608793-18	-	A1	1000	1.3899	97.10704	1169.742082	104.13224			16140-1.RAW	58.4391577	688.600142	62.5663826	0	psample10	OK	1
1608793-19	-	A2	1000	1.3899	137.26346	2134.782376	131.33569			16141-1.RAW	82.0306041	1255.55043	78.5481061	0	psample10	CT	1
1608793-20	-	A3	1000	1.3899	94.979058	735.8199827	123.64285			16142-1.RAW	57.1889926	433.675805	74.0286458	0	psample10	OK	1
1608793-21	-	A4	1000	1.3899	154.74096	2397.301441	132.39382			16143-1.RAW	92.2984375	1409.77741	79.1697443	0	psample10	CT	1
SEQ-CCV5	-	A5	1	1.3899	0.5162844	0.590583473	0.5224188	118.26		16144-1.RAW	304.701121	348.350994	308.305012	0	psample10	CT	1
SEQ-CCB5	-	A6	1	1.3899	0.0514389	0.009309536	0.0532049	0.00		16145-1.RAW	31.6096591	6.85911458	32.6471354	0	psample10	OK	1
1608793-22	-	A7	1000	1.3899	94.950123	973.2748172	135.07549			16146-1.RAW	57.1719934	573.177841	80.7451941	0	psample10	CT	1
1608793-23	-	A8	1000	1.3899	110.47553	1435.493881	162.69961			16147-1.RAW	66.2929924	844.726326	96.974053	0	psample10	CT	1
1608793-24	-	A9	1000	1.3899	83.453224	757.1770177	127.54528			16148-1.RAW	50.417695	446.222822	76.3212831	0	psample10	CT	1
1608793-25	-	A10	1000	1.3899	115.94021	1320.057348	126.048			16149-1.RAW	69.5034328	776.908665	75.441643	0	psample10	OK	1
1608793-26	-	A11	1000	1.3899	103.90117	1127.366908	118.84867			16150-1.RAW	62.4306345	663.705206	71.2121212	0	psample10	CT	1
F609558-DUP1	-	A12	1000	1.3899	117.83038	1388.109267	157.03646			16151-1.RAW	70.6138849	816.8884	93.647017	0	psample10	CT	1
F609558-MS1	-	A13	1000	1.3899	131.86839	1649.377865	146.8079	164937.79		16152-1.RAW	78.8610559	970.380753	87.6378551	0	psample10	OK	1
F609558-MSD1	-	A14	1000	1.3899	144.67267	1770.275617	165.13736			16153-1.RAW	86.383428	1041.40682	98.4062027	0	psample10	OK	1
F609558-MS2	-	A15	1000	1.3899	129.61081	1462.458858	157.7249	73122.94		16154-1.RAW	77.5347538	860.567945	94.0514678	0	psample10	CT	1
F609558-MSD2	-	A16	1000	1.3899	120.09293	1379.03261	155.11315			16155-1.RAW	71.9431081	811.555966	92.5170928	0	psample10	CT	1
SEQ-CCV6	-	A17	1	1.3899	0.3834153	0.626107528	0.5113528	125.38		16156-1.RAW	226.642036	369.220975	301.803874	0	psample10	CT	1
SEQ-CCB6	-	A18	1	1.3899	0.0520383	0.012115964	0.0620774	0.00		16157-1.RAW	31.9617898	8.50785985	37.8596591	0	psample10	CT	1

Methylmercury
EPA1630

Operat DM
Works1 MHQ27C
Method 2010-01 R:
Descrit MHQ27001-160928-1

BlankS 1.3899
CalibF5 587.48
Status: 0.9977 R:
R1:

Calib Eqn: Conc = (Area-1.390) / 587.4
OK, 1 Warnings
0.995468452

Conc = (Area-1.390) / 587.4
Run Date: #####
Run Time: 6:55:06
Blank SD: 0
Blank RSE: 0
CF SD: 32.07154477
CF RSD%: 5.459091168

Sample/D	Locat	Rinse	Dilute	Blank	ConcHa2(D)	ConcMeHg(Exp)	ConcHa2(D)	ConcPrHa2(R)	Rec%	OA	RawData	RunEnd	PeakHa20 (R)	PeakMeHg (R)	PeakHa2(Raw)	PeakPrHa2(Raw)	Control (Std)	Flags	RunCount
Clear					0	0.002714188	0.010245				16076-1.RAW	7:00:37	0	1.59455492	6.02114925	0	clearly	1	
WS	A1										16077-1.RAW	7:11:08	16.3890152	0	23.8567708	0	psample10	OK	1
SEQ-CAL1	A3	1	0	0.0553734	0.002365777	0.0443899					16078-1.RAW	7:21:38	32.5312263	1.38986742	26.0785748	0	psample10	OK	1
SEQ-CAL2	A4	1	1.3899	0.078095	0.051705055	0.0351551		103.41			16079-1.RAW	7:32:09	38.3757339	31.7660028	22.0431108	0	psample10	OK	1
SEQ-CAL3	A5	1	1.3899	0.1578005	1.001699283	0.0453901		130.17			16080-1.RAW	7:42:40	47.2697917	118.995762	24.9665246	0	psample10	OK	1
SEQ-CAL4	A6	1	1.3899	0.375109	1.821294368	0.0655718		91.06			16081-1.RAW	7:53:10	93.6729167	589.876894	28.0560133	0	psample10	OK	1
SEQ-CAL5	A7	1	1.3899	0.5549873	4.210527915	0.0801861		105.26			16082-1.RAW	8:03:42	221.762177	1071.37976	36.975142	0	psample10	OK	1
SEQ-ICV1	A8	1	1.3899	0.4569913	0.625359582	0.49471		125.23			16083-1.RAW	8:14:52	327.438857	2475.02751	48.4963191	0	psample10	OK	1
SEQ-ICB1	A9	1	1.3899	0.0592225	0.010180905	0.0467131		0.00			16084-1.RAW	8:24:42	269.867119	368.779451	292.026437	0	psample10	OK	1
F609569-B51	A10	1.25	1.3899	0.0850779	0.891981237	0.0943418					16085-1.RAW	8:45:44	41.3751102	420.612997	29.3225328	0	psample10	OK	1
F609569-B5D1	A11	1.25	1.3899	0.117372	0.873176027	0.0484697					16086-1.RAW	8:56:14	56.5536439	411.774716	24.1701705	0	psample10	OK	1
F609569-BLK1	A12	1.25	1.3899	0.0458025	0.008503346	0.0607258					16088-1.RAW	9:06:45	22.916643	5.39905303	29.93043	0	psample10	OK	1
F609569-BLK2	A13	1.25	1.3899	0.0459806	0.008609933	0.0648963					16089-1.RAW	9:17:17	23.003246	5.43645833	31.890554	0	psample10	OK	1
F609569-BLK3	A14	1.25	1.3899	0.0382443	0.005724441	0.0695502					16090-1.RAW	9:27:48	19.4489347	4.08030303	34.0778409	0	psample10	OK	1
F609569-DU1P1	A15	1.25	1.3899	0.0474308	0.089909145	0.1038802					16091-1.RAW	9:38:19	23.6819129	43.6463542	50.212642	0	psample10	OK	1
F609569-MS1	A16	1.25	1.3899	0.0769658	1.195791018	0.1733796		119.58			16092-1.RAW	9:48:49	37.5631155	563.400852	176.874905	0	psample10	OK	1
F609569-MSD1	A17	1.25	1.3899	0.0752467	1.181999248	0.370386					16093-1.RAW	9:59:20	36.7551373	556.918645	175.467934	0	psample10	OK	1
F609569-MS2	A18	1.25	1.3899	0.0465786	1.160026711	0.143059		58.00			16094-1.RAW	10:09:51	23.2814006	546.591951	68.6263258	0	psample10	OK	1
F609569-MSD2	A19	1.25	1.3899	0.0504162	1.222420721	0.183942					16095-1.RAW	10:20:21	25.0850142	575.916572	87.6774621	0	psample10	OK	1
SEQ-CCV1	A20	1	1.3899	0.4347912	0.652767211	0.5188581		130.72			16096-1.RAW	10:30:52	256.674803	384.863239	306.213117	0	psample10	OK	1
SEQ-CCB1	A21	1	1.3899	0.0312412	0.007091287	0.0576424		0.00			16097-1.RAW	10:41:23	19.7437027	5.55591856	35.2541193	0	psample10	OK	1
1608980-01RE1	B1	1.25	1.3899	0.0844664	0.103096376	0.1275771					16098-1.RAW	10:51:53	28.8591661	49.3742424	61.3499527	0	psample10	OK	1
1608980-02RE1	B2	1.25	1.3899	0.043065	0.10934179	0.1159386					16099-1.RAW	11:02:24	21.6200426	52.7795218	55.6799716	0	psample10	OK	1
1608980-03RE1	B3	1.25	1.3899	0.0348036	0.097164332	0.083308					16100-1.RAW	11:12:55	17.7472336	47.0502263	40.5438886	0	psample10	OK	1
1608980-04RE1	B4	1.25	1.3899	0.0347985	0.113706812	0.1021954					16101-1.RAW	11:23:25	17.7448627	54.8312945	49.4207986	0	psample10	OK	1
1608980-05RE1	B5	1.25	1.3899	0.0364985	0.143420056	0.1640561					16102-1.RAW	11:32:56	18.5438224	68.7959991	78.4947443	0	psample10	OK	1
1608980-06RE1	B6	1.25	1.3899	0.0271381	0.052271515	0.062736					16103-1.RAW	11:44:27	14.1445312	25.9570076	30.8752367	0	psample10	OK	1
1608981-12RE1	B7	1.25	1.3899	0.0288262	0.023791056	0.0726478					16104-1.RAW	11:54:57	14.9379261	12.571489	53.5326884	0	psample10	OK	1
1608981-13RE1	B8	1.25	1.3899	0.0508425	0.319902308	0.2946297					16105-1.RAW	12:05:28	25.2653693	151.741098	139.863149	0	psample10	OK	1
1608981-14RE1	B9	1.25	1.3899	0.0323209	0.055301675	0.0811689					16106-1.RAW	12:15:59	16.58038	27.3811553	39.5384943	0	psample10	OK	1
1608981-15RE1	B10	1.25	1.3899	0.0460382	0.193568353	0.4065739					16107-1.RAW	12:26:29	23.0273911	92.3652462	192.475941	0	psample10	OK	1
SEQ-CCV2	B11	1	1.3899	0.7790973	0.586372359	0.51327		117.42			16108-1.RAW	12:37:00	459.100758	345.877012	302.930199	0	psample10	OK	1
SEQ-CCB2	B12	1	1.3899	0.031061	0.003325251	0.0649116		0.00			16109-1.RAW	12:47:31	19.6378267	3.34928977	79.5247159	0	psample10	OK	1
1608981-16RE1	B13	1.25	1.3899	0.0460895	0.122673516	0.2377519					16110-1.RAW	12:58:01	23.0512333	59.0453125	113.131132	0	psample10	OK	1
1608981-17RE1	B14	1.25	1.3899	0.0722956	0.159149625	0.2947875					16111-1.RAW	13:08:32	35.3681345	76.1887457	139.937308	0	psample10	OK	1
1609066-18RE1	B15	1.25	1.3899	0.0416284	0.102254895	0.1134241					16112-1.RAW	13:19:03	20.9548207	49.4487453	54.6961534	0	psample10	OK	1
1609066-01RE1	B16	1.25	1.3899	0.0229688	0.000965271	0.0491191					16113-1.RAW	13:29:33	12.1981534	1.65553977	24.4753788	0	psample10	OK	1
1609066-02RE1	B17	1.25	1.3899	0.0347071	0.106517399	0.1399032					16114-1.RAW	13:40:04	17.4025095	51.4520833	67.1431064	0	psample10	OK	1
1609066-03RE1	B18	1.25	1.3899	0.0269428	0.09133865	0.0995856					16115-1.RAW	13:50:35	14.0527462	44.3158617	46.4653835	0	psample10	OK	1
1609066-04RE1	B19	1.25	1.3899	0.0235236	0.082212965	0.0821257					16116-1.RAW	14:01:06	12.45	40.029214	40.0399911	0	psample10	OK	1
1609066-05RE1	B20	1.25	1.3899	0.0406893	0.118784118	0.14032018					16117-1.RAW	14:11:36	20.5134948	57.2174718	67.3304396	0	psample10	OK	1
1609066-06RE1	B21	1.25	1.3899	0.0273259	0.125895189	0.1630454					16118-1.RAW	14:22:07	14.2327833	80.5594697	88.0197399	0	psample10	OK	1
1609066-07RE1	C1	1.25	1.3899	0.0283817	0.014867206	0.0793114					16119-1.RAW	14:32:38	12.61875	8.37732008	38.6655264	0	psample10	OK	1
SEQ-CCV3	C2	1	1.3899	0.5540254	0.584650775	0.4729104		117.08			16120-1.RAW	14:43:08	326.873565	344.865601	279.219408	0	psample10	OK	1
SEQ-CCB3	C3	1	1.3899	0.0216103	0.003443812	0.0511178		0.00			16121-1.RAW	14:53:39	14.0857008	3.41306818	31.4563769	0	psample10	OK	1
F609558-BLK1	C4	500	1.3899	9.1043617	0.619189636	42.38746					16122-1.RAW	15:04:10	12.0872869	2.11740057	51.1941761	0	psample10	OK	1
F609558-BLK2	C5	500	1.3899	11.484505	0.227421251	46.324209					16123-1.RAW	15:14:40	14.8839015	1.12852746	55.819768	0	psample10	OK	1
F609558-BLK3	C6	500	1.3899	10.080223	0.29515799	49.04555					16124-1.RAW	15:25:11	13.239015	1.7366714	59.0172822	0	psample10	OK	1
F609558-B51	C7	1000	1.3899	177.65844	1855.71633	567.57839					16125-1.RAW	15:35:42	105.762195	1091.60227	334.835768	0	psample10	OK	1
F609558-B5D1	C8	1000	1.3899	200.48193	1906.066829	578.45531					16126-1.RAW	15:46:12	119.170739	1121.18262	341.225837	0	psample10	OK	1
1608793-07	C9	1000	1.3899	93.231102	655.856487	107.36981					16127-1.RAW	15:56:43	56.1602899	386.698153	64.4684186	0	psample10	OK	1
1608793-08	C10	1000	1.3899	110.97969	1033.926933	105.36639					16128-1.RAW	16:07:14	66.589182	608.810275	63.2914299	0	psample10	OK	1
1608793-09	C11	1000	1.3899	93.958768	467.3876433	90.37601					16129-1.RAW	16:17:44	56.5895833	275.974834	54.4847538	0			

F60955E-MS2	A15	1000	1.3899	129.61081	1462.458658	157.7249	73122.94	16154-1.RAW	20:40:33	77.5347538	860.567945	94.0514678	0	psample10	CT	1
F60955E-MSD2	A16	1000	1.3899	120.09293	1379.03261	155.11315		16155-1.RAW	20:51:04	71.9431081	611.555966	92.5170926	0	psample10	CT	1
SEQ-CCV6	A17	1	1.3899	0.3834153	0.626107528	0.512064	125.38	16156-1.RAW	21:01:25	226.642036	368.220975	362.221691	0	psample10	CT	1
5FQ-CCB6	A18	1	1.3899	0.0520669	0.012115964	0.0621084	0.00	16157-1.RAW	21:12:05	31.9785985	6.50785985	37.8778409	0	psample10	CT	1

Failing Data Report - 6I29018

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
F609558-BS1	MHg-CVAFS-T-KOH	147.3	4.0			330.28	ng/g	44.6	70.00	130.00			PASS-OVER	FAIL-BS	DNR
F609558-BSD1	MHg-CVAFS-T-KOH	152.5	4.0	147.3		330.28	ng/g	46.2	70.00	130.00	3.48	25.00	PASS-OVER	FAIL-BSD (Rec.)	DNR

Don Mason 9/29/16
 Analyst Reviewed By Date

D 9-30-16
 Peer Reviewed By Date

Failing Data Report - 6I29013

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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DM Moom
Analyst Reviewed By

9/29/16
Date

[Signature]
Peer Reviewed By

9-29-16
Date

ANALYSIS SEQUENCE

6I29013

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/28/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6I29013-IBL1	QC	1			
6I29013-CAL1	QC	2	1604163		
6I29013-CAL2	QC	3	1604164		
6I29013-CAL3	QC	4	1604165		
6I29013-CAL4	QC	5	1604166		
6I29013-CAL5	QC	6	1604167		
6I29013-ICV1	QC	7	1605079		
6I29013-ICB1	QC	8			
F609569-BS1	QC	9			
F609569-BSD1	QC	10			
F609569-BLK1	QC	11			
F609569-BLK2	QC	12			
F609569-BLK3	QC	13			
F609569-DUP1	QC	14			
F609569-MS1	QC	15			
F609569-MSD1	QC	16			
F609569-MS2	QC	17			
F609569-MSD2	QC	18			
6I29013-CCV1	QC	19	1605079		
6I29013-CCB1	QC	20			
1608980-01RE1	MHg-CVAFS-W-Dist	21			From F609509 by DMH on 26-Sep-16
1608980-02RE1	MHg-CVAFS-W-Dist	22			From F609509 by DMH on 26-Sep-16
1608980-03RE1	MHg-CVAFS-W-Dist	23			From F609509 by DMH on 26-Sep-16
1608980-04RE1	MHg-CVAFS-W-Dist	24			From F609509 by DMH on 26-Sep-16
1608980-05RE1	MHg-CVAFS-W-Dist	25			From F609509 by DMH on 26-Sep-16
1608980-06RE1	MHg-CVAFS-W-Dist	26			From F609509 by DMH on 26-Sep-16
1608981-12RE1	MHg-CVAFS-W-Dist	27			From F609509 by DMH on 26-Sep-16
1608981-13RE1	MHg-CVAFS-W-Dist	28			From F609509 by DMH on 26-Sep-16
1608981-14RE1	MHg-CVAFS-W-Dist	29			From F609509 by DMH on 26-Sep-16
1608981-15RE1	MHg-CVAFS-W-Dist	30			From F609509 by DMH on 26-Sep-16
6I29013-CCV2	QC	31	1605079		
6I29013-CCB2	QC	32			
1608981-16RE1	MHg-CVAFS-W-Dist	33			From F609509 by DMH on 26-Sep-16
1608981-17RE1	MHg-CVAFS-W-Dist	34			From F609509 by DMH on 26-Sep-16
1608981-18RE1	MHg-CVAFS-W-Dist	35			From F609509 by DMH on 26-Sep-16

Due Date: 9/22/2016

ANALYSIS SEQUENCE

6I29013

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/28/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1609068-01RE1	MHg-CVAFS-W-Dist	36			From F609509 by DMH on 26-Sep-16
1609068-02RE1	MHg-CVAFS-W-Dist	37			From F609509 by DMH on 26-Sep-16
1609068-03RE1	MHg-CVAFS-W-Dist	38			From F609509 by DMH on 26-Sep-16
1609068-04RE1	MHg-CVAFS-W-Dist	39			From F609509 by DMH on 26-Sep-16
1609068-05RE1	MHg-CVAFS-W-Dist	40			From F609509 by DMH on 26-Sep-16
1609068-06RE1	MHg-CVAFS-W-Dist	41			From F609509 by DMH on 26-Sep-16
1609068-07RE1	MHg-CVAFS-W-Dist	42			From F609509 by DMH on 26-Sep-16
6I29013-CCV3	QC	43	1605079		
6I29013-CCB3	QC	44			

Don Mattem 9/28/16
 Samples Loaded By Date

Don Mattem 9/29/16
 Data Processed By Date

Due Date: 9/22/2016

ANALYSIS SEQUENCE

6I29018

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/28/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6I29018-IBL1	QC	1			
6I29018-CAL1	QC	2	1604163		
6I29018-CAL2	QC	3	1604164		
6I29018-CAL3	QC	4	1604165		
6I29018-CAL4	QC	5	1604166		
6I29018-CAL5	QC	6	1604167		
6I29018-ICV1	QC	7	1605079		
6I29018-ICB1	QC	8			
6I29018-CCV1	QC	9	1605079		
6I29018-CCB1	QC	10			
6I29018-CCV2	QC	11	1605079		
6I29018-CCB2	QC	12			
6I29018-CCV3	QC	13	1605079		
6I29018-CCB3	QC	14			
F609558-BLK1	QC	15			
F609558-BLK2	QC	16			
F609558-BLK3	QC	17			
F609558-BS1	QC	18			
F609558-BSD1	QC	19			
1608793-07	MHg-CVAFS-T-KOH	20			
1608793-08	MHg-CVAFS-T-KOH	21			
1608793-09	MHg-CVAFS-T-KOH	22			
1608793-10	MHg-CVAFS-T-KOH	23			
1608793-11	MHg-CVAFS-T-KOH	24			
6I29018-CCV4	QC	25	1605079		
6I29018-CCB4	QC	26			
1608793-12	MHg-CVAFS-T-KOH	27			
1608793-13	MHg-CVAFS-T-KOH	28			
1608793-14	MHg-CVAFS-T-KOH	29			
1608793-15	MHg-CVAFS-T-KOH	30			
1608793-16	MHg-CVAFS-T-KOH	31			
1608793-17	MHg-CVAFS-T-KOH	32			
1608793-18	MHg-CVAFS-T-KOH	33			
1608793-19	MHg-CVAFS-T-KOH	34			
1608793-20	MHg-CVAFS-T-KOH	35			

Due Date: 9/20/2016

ANALYSIS SEQUENCE

6I29018

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/28/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1608793-21	MHg-CVAFS-T-KOH	36			
6I29018-CCV5	QC	37	1605079		
6I29018-CCB5	QC	38			
1608793-22	MHg-CVAFS-T-KOH	39			
1608793-23	MHg-CVAFS-T-KOH	40			
1608793-24	MHg-CVAFS-T-KOH	41			
1608793-25	MHg-CVAFS-T-KOH	42			
1608793-26	MHg-CVAFS-T-KOH	43			
F609558-DUP1	QC	44			
F609558-MS1	QC	45			
F609558-MSD1	QC	46			
F609558-MS2	QC	47			
F609558-MSD2	QC	48			
6I29018-CCV6	QC	49	1605079		
6I29018-CCB6	QC	50			

Don Mason 9/28/16
 Samples Loaded By Date

Don Mason 9/29/16
 Data Processed By Date

Due Date: 9/20/2016

PREPARATION BENCH SHEET

F609569

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/27/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609569-BLK1	Blank	45	40					
F609569-BLK2	Blank	45	40					
F609569-BLK3	Blank	45	40					
F609569-BS1	Blank Spike	45	40	1603908	45			
F609569-BSD1	Blank Spike Dup	45	40	1603908	45			
F609569-DUP1	Duplicate [1608980-03RE1]	45	40					
F609569-MS1	Matrix Spike [1608981-15RE1]	45	40	1603908	45			
F609569-MS2	Matrix Spike [1608981-16RE1]	45	40	1603908	45			
F609569-MSD1	Matrix Spike Dup [1608981-15RE1]	45	40	1603908	45			
F609569-MSD2	Matrix Spike Dup [1608981-16RE1]	45	40	1603908	45			

Standard ID(s): 1603908
Description: MHg New Primary 1.0 ng/mL CAL

Expiration: 19-Oct-16 00:00

Reagent ID(s): 1604614
 1605166
 1605520
 1605632
 1605633

Description: Acetate Buffer
 Ethylating Agent (For Methyl Mercury Analysis)
 2.5% Ascorbic Acid
 0.5% Distillation Dilute (Made Daily)
 APDC

Expiration: 15-Feb-17 00:00
 05-Mar-17 00:00
 30-Sep-16 00:00
 26-Mar-17 00:00

PREPARATION BENCH SHEET

F609569

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/27/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608980-01RE1	OL-2457-01	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1608980-02RE1	OL-2457-02	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1608980-03RE1	OL-2457-03	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1608980-04RE1	OL-2457-04	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1608980-05RE1	OL-2457-05	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1608980-06RE1	OL-2457-06	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1608981-12RE1	WQ-ECH_082916_SW_10 Dissolved	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1608981-13RE1	ES-15_082916_SW_10	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1608981-14RE1	ES-15_082916_SW_10 Dissolved	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1608981-15RE1	OV02_082916_SW_10	45	40	QC	-	-	MS/MSD From F609509 by DMH on 2	From F609509 by DMH on 26-Sep-16
1608981-16RE1	OV02_082916_SW_10 Dissolved	45	40	QC	-	-	MS/MSD From F609509 by DMH on 2	From F609509 by DMH on 26-Sep-16
1608981-17RE1	OV02_082916_SW_10_DUP	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1608981-18RE1	OV02_082916_SW_10_DUP Dissolved	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1609068-01RE1	P85499-1	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1609068-02RE1	P85499-2	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1609068-03RE1	P85499-3	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
1609068-04RE1	P85499-4	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
068-05RE1	P85499-5	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
068-06RE1	P85499-6	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16

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Date: 9/22/2016

PREPARATION BENCH SHEET

F609569

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/27/2016

1609068-07RE1	P85499-7	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16
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Work Order	Client	Project
1608980		
1608981		
1609068		

From F609509 on 9/26/2016 by DMH

PREPARATION BENCH SHEET

F609558

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 9/27/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609558-BLK1	Blank	0.25	20					
F609558-BLK2	Blank	0.25	20					
F609558-BLK3	Blank	0.25	20					
F609558-BS1	LCS	0.252	20	1605470	252			
F609558-BSD1	LCS Dup	0.25	20	1605470	250			
F609558-DUP1	Duplicate [1608793-11]	0.263	20					
F609558-MS1	Matrix Spike [1608793-11]	0.279	20	1506872	100			
F609558-MS2	Matrix Spike [1608793-22]	0.296	20	1506872	100			
F609558-MSD1	Matrix Spike Dup [1608793-11]	0.307	20	1506872	100			
F609558-MSD2	Matrix Spike Dup [1608793-22]	0.295	20	1506872	100			

Standard ID(s):
1506872
1605470

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

Expiration:
03-Nov-16 00:00
19-Mar-17 00:00
19-Mar-17 00:00

Reagent ID(s):
1602119
1603399
1603805
1604614
1605166

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

Expiration:
15-Apr-19 00:00
01-Jun-17 00:00
10-Jan-17 00:00
15-Feb-17 00:00
05-Mar-17 00:00

PREPARATION BENCH SHEET

F609558

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 9/27/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608793-07	GBN-F-7	0.275	20	-	-	-		
1608793-08	GBN-F-8	0.283	20	-	-	-		
1608793-09	GBN-F-9	0.272	20	-	-	-		
1608793-10	GBN-F-10	0.287	20	-	-	-		
1608793-11	GBN-F-11	0.293	20	-	-	-		
1608793-12	GBN-F-12	0.266	20	-	-	-		
1608793-13	GBN-F-13	0.298	20	-	-	-		
1608793-14	GBN-F-14	0.29	20	-	-	-		
1608793-15	GBN-F-15	0.269	20	-	-	-		
1608793-16	GBN-F-16	0.293	20	-	-	-		
1608793-17	GBN-F-17	0.288	20	-	-	-		
1608793-18	GBN-F-18	0.278	20	-	-	-		
1608793-19	GBN-F-19	0.292	20	-	-	-		
1608793-20	GBN-F-20	0.29	20	-	-	-		
1608793-21	GBN-F-21	0.297	20	-	-	-		
1608793-22	GBN-F-22	0.296	20	-	-	-		
1608793-23	GBN-F-23	0.273	20	-	-	-		
1608793-24	GBN-F-24	0.282	20	-	-	-		
1608793-25	GBN-F-25	0.298	20	-	-	-		

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Date: 9/20/2016

PREPARATION BENCH SHEET

F609558

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 9/27/2016

1608793-26	GBN-F-26	0.288	20	-	-	-		
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Work Order

Client

Project

1608793



PREPARATION BENCH SHEET

2709-1

9/28/16 DM

F609569

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/27/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609569-BLK1	Blank	45	40					1.25x
F609569-BLK2	Blank	45	40					1.25x
F609569-BLK3	Blank	45	40					1.25x
F609569-BS1	Blank Spike	45	40	1603908	45			1.25x
F609569-BSD1	Blank Spike Dup	45	40	1603908	45			1.25x
F609569-DUP1	Duplicate [1608980-03RE1]	45	40					1.25x
F609569-MS1	Matrix Spike [1608981-15RE1]	45	40	1603908	45			1.25x
F609569-MS2	Matrix Spike [1608981-16RE1]	45	40	1603908	45			1.25x
F609569-MSD1	Matrix Spike Dup [1608981-15RE1]	45	40	1603908	45			1.25x
F609569-MSD2	Matrix Spike Dup [1608981-16RE1]	45	40	1603908	45			1.25x

Standard ID(s):
1603908

Description:
MHg New Primary 1.0 ng/mL CAL

Expiration:
19-Oct-16 00:00

Reagent ID(s):
1605632
1605633

Description:
0.5% Distillation Dilute (Made Daily)
APDC

Expiration:
26-Mar-17 00:00

1605520

1604614

1605166

PREPARATION BENCH SHEET

2700-1

9/28/16 DM

F609569

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/27/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608980-01RE1	OL-2457-01	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1608980-02RE1	OL-2457-02	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1608980-03RE1	OL-2457-03	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1608980-04RE1	OL-2457-04	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1608980-05RE1	OL-2457-05	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1608980-06RE1	OL-2457-06	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1608981-12RE1	WQ-ECH_082916_SW_10 Dissolved	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1608981-13RE1	ES-15_082916_SW_10	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1608981-14RE1	ES-15_082916_SW_10 Dissolved	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1608981-15RE1	OV02_082916_SW_10	45	40	QC	-	-	MS/MSD From F609509 by DMH on 2	From F609509 by DMH on 26-Sep-16 1.25X
1608981-16RE1	OV02_082916_SW_10 Dissolved	45	40	QC	-	-	MS/MSD From F609509 by DMH on 2	From F609509 by DMH on 26-Sep-16 1.25X
1608981-17RE1	OV02_082916_SW_10_DUP	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1608981-18RE1	OV02_082916_SW_10_DUP Dissolved	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1609068-01RE1	P85499-1	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1609068-02RE1	P85499-2	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1609068-03RE1	P85499-3	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1609068-04RE1	P85499-4	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1609068-05RE1	P85499-5	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X
1609068-06RE1	P85499-6	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16 1.25X

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Date: 9/22/2016

PREPARATION BENCH SHEET

2700-1

9/28/16 DM

F609569

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: Hg Aquatic/Solids - EFGS-013 Methyl Hg Distillation for Water

Prepared: 9/27/2016

1609068-07RE1	P85499-7	45	40	-	-	-	From F609509 by DMH on 26-Sep-16	From F609509 by DMH on 26-Sep-16	1.25X
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Work Order	Client	Project
1608980		
1608981		
1609068		
From F609509 on 9/27/16		

Methyl Mercury Distillations (EPA 1630)

Name: Duyen Date: 9/27/16 Batch #: F609569 Sample Matrix: Water
 WO#: 1608980, 1608981, 1609068

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	F609569 Blank1	1.0	45	3.0
Blk2	F609569 Blank2	1.0	45	3.0
Blk3	F609569 Blank3	1.0	45	3.0
BS1	F609569 BS1	1.0	45	3.0
BS01	F609569 BS01	1.0	45	3.0
Dup1	F609569 Dup1	1.0	45	3.0
MS1	F609569 MS1	1.0	45	5.0
MS01	F609569 MS01	1.0	45	5.0
MS2	F609569 MS2	1.0	45	5.0
MS02	F609569 MS02	1.0	45	5.0
1	1608980-01 RE1	1.0	45	3.0
2	1608980-02 RE1	1.0	45	3.0
3	1608980-03 RE1	1.0	45	4.0
4	1608980-04 RE1	1.0	45	4.0
5	1608980-05 RE1	1.0	45	4.0
6	1608980-06 RE1	1.0	45	4.0
7	1608981-12 RE1	1.0	45	4.0
8	1608981-13 RE1	1.0	45	4.0
9	1608981-14 RE1	1.0	45	4.0
10	1608981-15 RE1	1.0	45	4.0
11	1608981-16 RE1	1.0	45	5.0
12	1608981-17 RE1	1.0	45	5.0
13	1608981-18 RE1	1.0	45	5.0
14	1609068-01 RE1	1.0	45	4.0
15	1609068-02 RE1	1.0	45	4.0
16	1609068-03 RE1	1.0	45	4.0
17	1609068-04 RE1	1.0	45	3.0
18	1609068-05 RE1	1.0	45	3.0
19	1609068-06 RE1	1.0	45	3.0
20	1609068-07 RE1	1.0	45	3.0

Spike ID: 1603908
 Spike Amount: 45 µL
 Spike Witness: DN 9/27/16

Balance #: 2
 Calibrated? Yes No

Pipette #: CJ12087
 Cal. Date: 9/21/16

Pipette #: W24486
 Cal. Date: 9/22/16

Pipette #: N27707
 Cal. Date: 9/22/16

APDC ID: 16056323
 HCl ID: 16055632

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: 120.9
 Unit 2: 122.
 Unit 3: 120.3
 Unit 4: 120.5
 Unit 5: 122.
 Unit 6: 122.

Comments: Dup1. 1608980-03 RE1
MS1-MS01 1608981-15 RE1
MS02 MS02 1608981-16 RE1
9/27/16

PREPARATION BENCH SHEET

2700-1

9/28/16 DN

F609558

Euofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 9/27/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609558-BLK1	Blank	0.25	20					500X
F609558-BLK2	Blank	0.25	20					500X
F609558-BLK3	Blank	0.25	20					500X
F609558-BS1	LCS	0.252	20	1605470	252			1000X
F609558-BSD1	LCS Dup	0.25	20	1605470	250			1000X
F609558-DUP1	Duplicate [1608793-11]	0.263	20					1000X
F609558-MS1	Matrix Spike [1608793-11]	0.279	20	1506872	100			1000X
F609558-MS2	Matrix Spike [1608793-22]	0.296	20	1506872	100			1000X
F609558-MSD1	Matrix Spike Dup [1608793-11]	0.307	20	1506872	100			1000X
F609558-MSD2	Matrix Spike Dup [1608793-22]	0.295	20	1506872	100			1000X

Standard ID(s):
 1506872
 1605470

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

Expiration:
 03-Nov-16 00:00
 19-Mar-17 00:00
 19-Mar-17 00:00

Reagent ID(s):
 1602119
 1603399
 1603805

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

Expiration:
 15-Apr-19 00:00
 01-Jun-17 00:00
 10-Jan-17 00:00

1605166

1604614

PREPARATION BENCH SHEET

2700-1

9/28/16 DM

F609558

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 9/27/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608793-07	GBN-F-7	0.275	20	-	-	-		1000X
1608793-08	GBN-F-8	0.283	20	-	-	-		1000X
1608793-09	GBN-F-9	0.272	20	-	-	-		1000X
1608793-10	GBN-F-10	0.287	20	-	-	-		1000X
1608793-11	GBN-F-11	0.293	20	-	-	-		1000X
1608793-12	GBN-F-12	0.266	20	-	-	-		1000X
1608793-13	GBN-F-13	0.298	20	-	-	-		1000X
1608793-14	GBN-F-14	0.29	20	-	-	-		1000X
1608793-15	GBN-F-15	0.269	20	-	-	-		1000X
1608793-16	GBN-F-16	0.293	20	-	-	-		1000X
1608793-17	GBN-F-17	0.288	20	-	-	-		1000X
1608793-18	GBN-F-18	0.278	20	-	-	-		1000X
1608793-19	GBN-F-19	0.292	20	-	-	-		1000X
1608793-20	GBN-F-20	0.29	20	-	-	-		1000X
1608793-21	GBN-F-21	0.297	20	-	-	-		1000X
1608793-22	GBN-F-22	0.296	20	-	-	-		1000X
1608793-23	GBN-F-23	0.273	20	-	-	-		1000X
793-24	GBN-F-24	0.282	20	-	-	-		1000X
793-25	GBN-F-25	0.298	20	-	-	-		1000X

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Date: 9/20/2016

PREPARATION BENCH SHEET

2700-1

9/28/16 DM

F609558

Eurofins Frontier Global Sciences, Inc.

Matrix: Tissue

Prepared using: Hg Aquatic/Solids - EFGS-010 KOH/Methanol Hg Digestion

Prepared: 9/27/2016

1608793-26	GBN-F-26	0.288	20	-	-	-	1000x
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Work Order

Client

Project

1608793



Technician: Duffy/AMB Batch#: F609558 Date: 9/27/16

- EFGS-010** Tissues - Methyl Mercury - KOH/Methanol: **Hot plate 75±5°C for 2-4 hours.**
- EFGS-011** Tissues - Total Mercury - 70:30: **Hot plate 75±5°C for two hours.**
- EFGS-045** Sediments - Methyl Mercury - KBr/CH₂Cl₂: **Heat Block 45°C (nitrogen purge for 30 minutes).**
- EFGS-066** Solids - Total Mercury - Cold AR: **18-25°C for over four hours.**

Other: _____

Vial Type: Glass Teflon

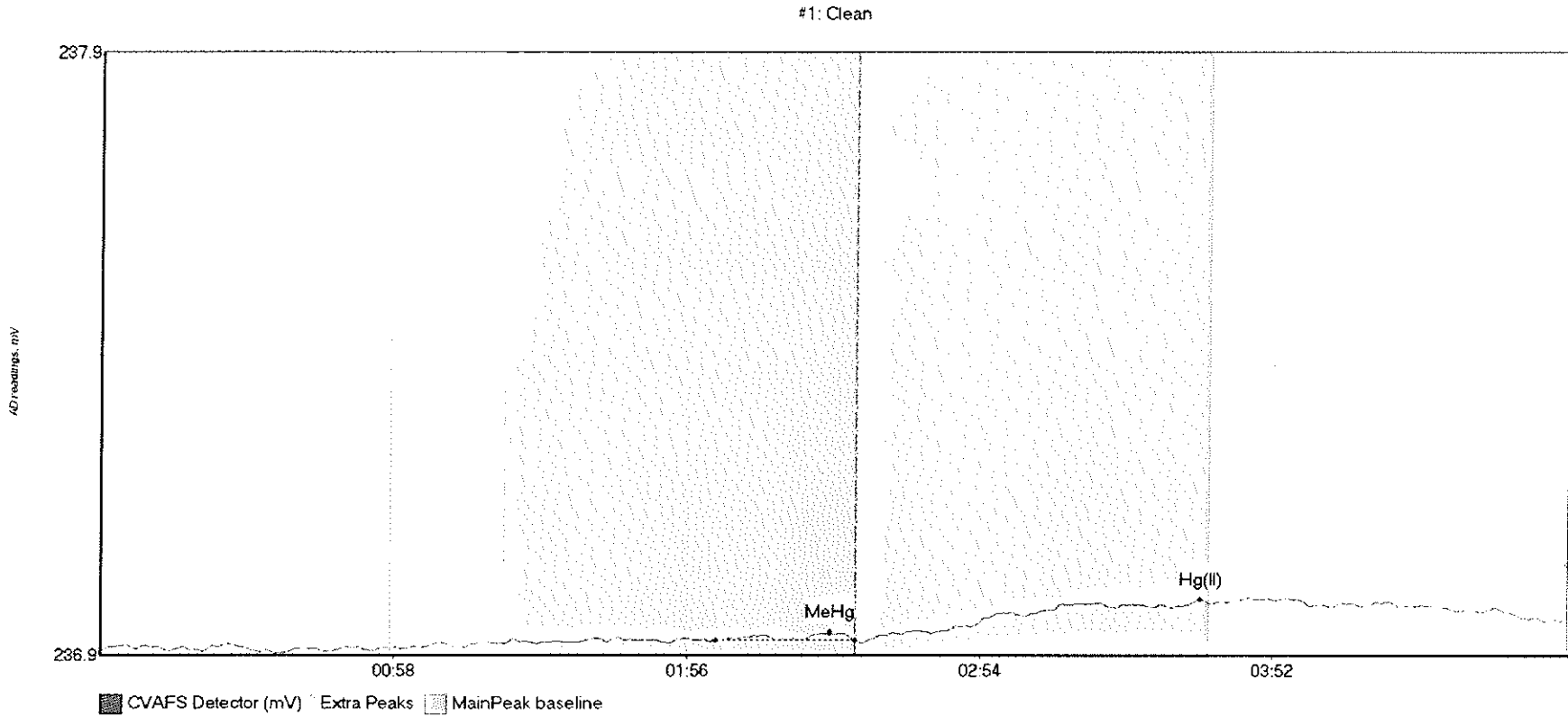
Balance#: 10 Calibrated? Yes No Therm.#: 13698 Calibrated? Yes No
 Time in: 1800 Actual Temp. (raw): 72.0 °C w/ CF: 71.6 °C
 Time out: 2100 Actual Temp. (raw): timer °C w/ CF: timer °C

Final vol.: 20 mL (LIMS ID: 1602119) Spike vol.: 100 µL (LIMS ID: 1506872)
 Spike Witness: PL 9/27/16 (initial and date)

HCl LIMS ID: N/A Pipette SN#: 9-27-16 AMB V17325 Calibration Date: 9/22/16
 HNO₃ LIMS ID: N/A Pipette SN#: MU11619 Calibration Date: 9/21/16
 70/30 LIMS ID: N/A Dispenser #: 02N48426 Calibrated? Yes No
 Other Acid LIMS ID: 25% KOH/Methanol Dispenser #: N/A
 Glass Vial # 00065276 Boiling Chip lot # 1603399 *Hotblock Position: K7

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	F609558 Blank1	0.275	23	1608793-19A	0.292	BS1/BS01
2	F609558 Blank2	0.283	24	1608793-20A	0.290	PORU-4
3	F609558 Blank3	0.289	25	1608793-21A	0.297	1605470
4	F609558 BS1	0.252	26	1608793-22A	0.296	Comments Dupl. MS/MS01 source 1608793-11 1608793-11 = 0.293g. MS2, MS02 source 1608793-22 spiked by AMB 9/27/16
5	F609558 BS01	0.250	27	1608793-23A	0.273	
6	F609558 Dupl	0.263	28	1608793-24A	0.282	
7	F609558 MS1	0.279	29	1608793-25A	0.298	
8	F609558 MS01	0.307	30	1608793-26A	0.288	
9	F609558 MS2	0.296	31			
10	F609558 MS02	0.295	32			
11	1608793-07A	0.275	33			
12	1608793-08A	0.283	34			
13	1608793-09A	0.272	35			
14	1608793-10A	0.287	36			
15	1608793-11A	0.293	37			
16	1608793-12A	0.266	38			
17	1608793-13A	0.298	39			
18	1608793-14A	0.290	40			
19	1608793-15A	0.269	41			
20	1608793-16A	0.293	42			
21	1608793-17A	0.288	43			
22	1608793-18A	0.278	44			

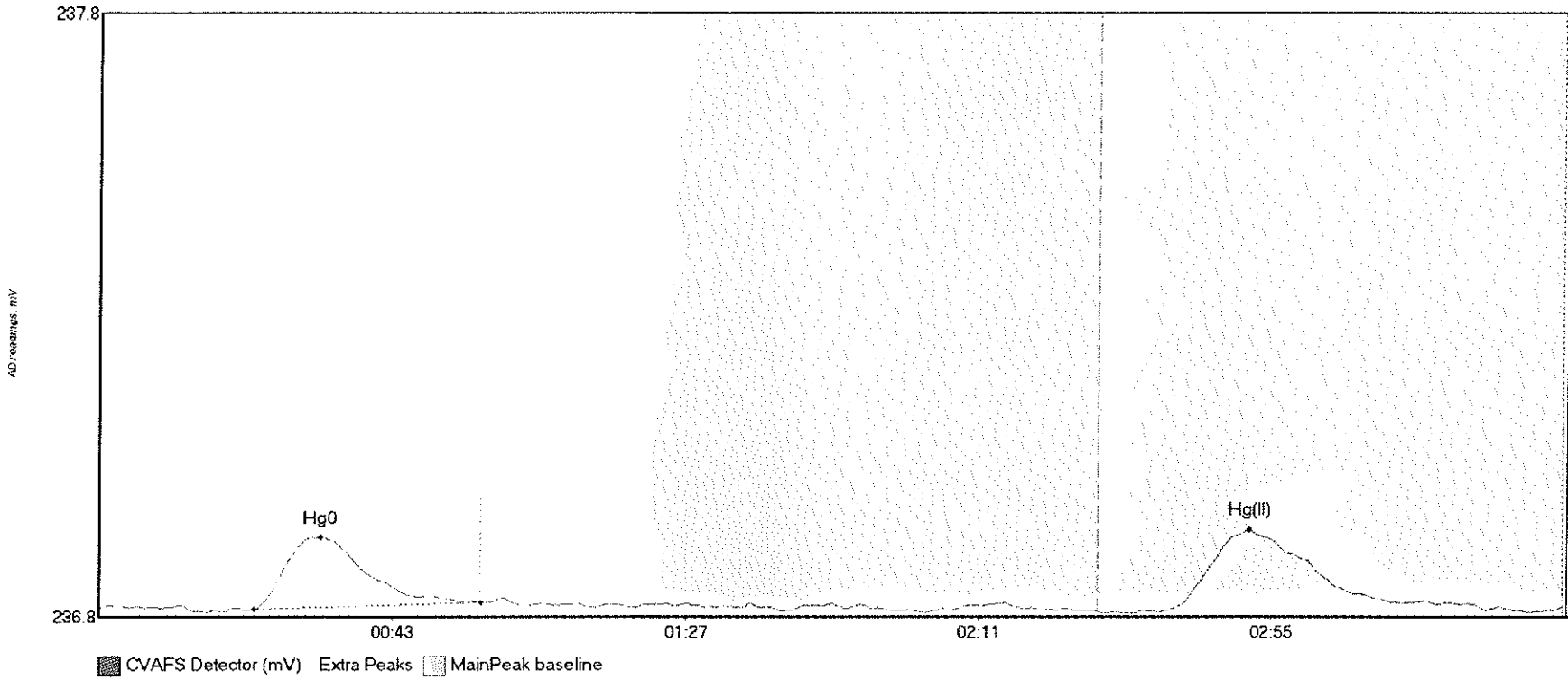
Verified By: DM 9/28/16



CHROMATOGRAMS VERIFIED 9-29-16 DMW

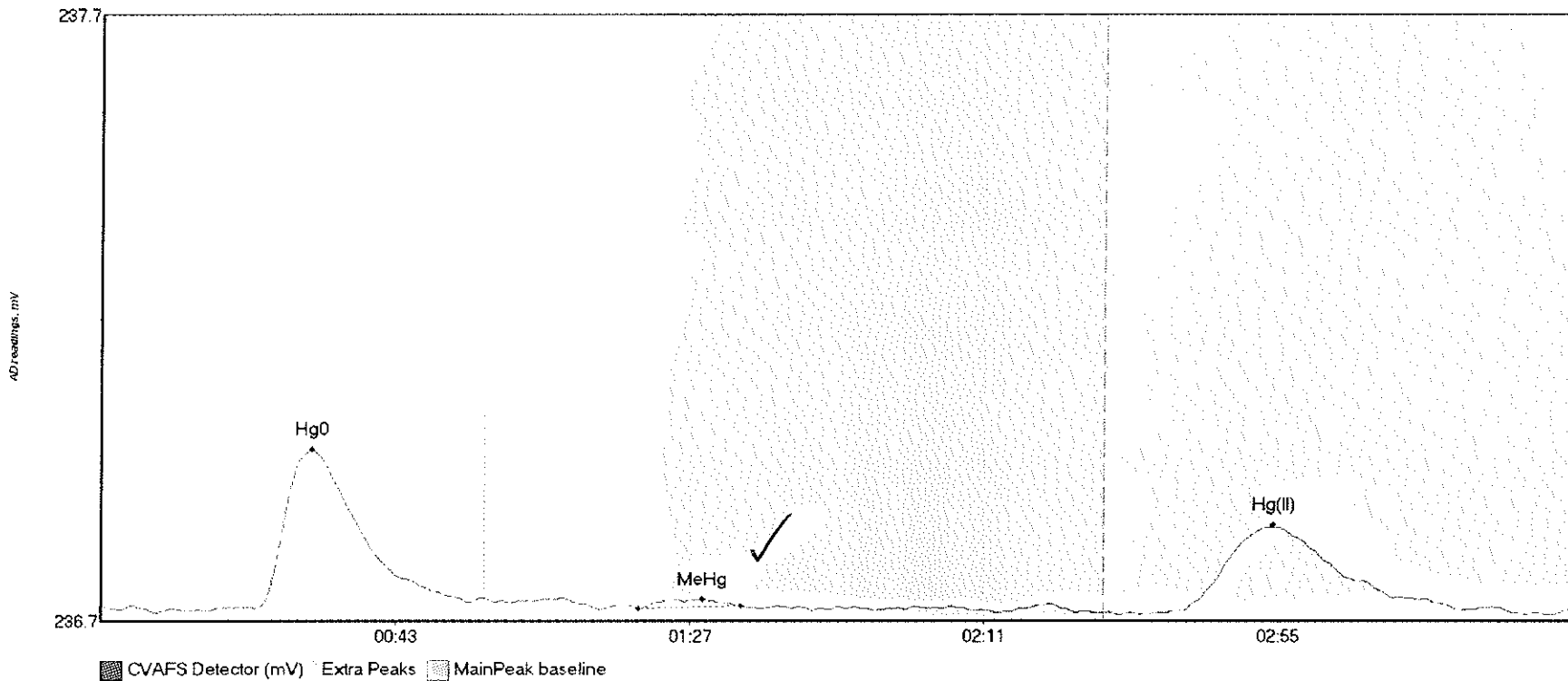
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
Clean MeHg	1.595	122.2	150.0	236.92	236.92	145.0	0.013	CT	236.9028	0.00	0.05	
Clean Hg(II)	6.021	153.5	219.8	236.92	236.98	218.4	0.065	CT	236.9028	0.00	0.05	

#2: WS



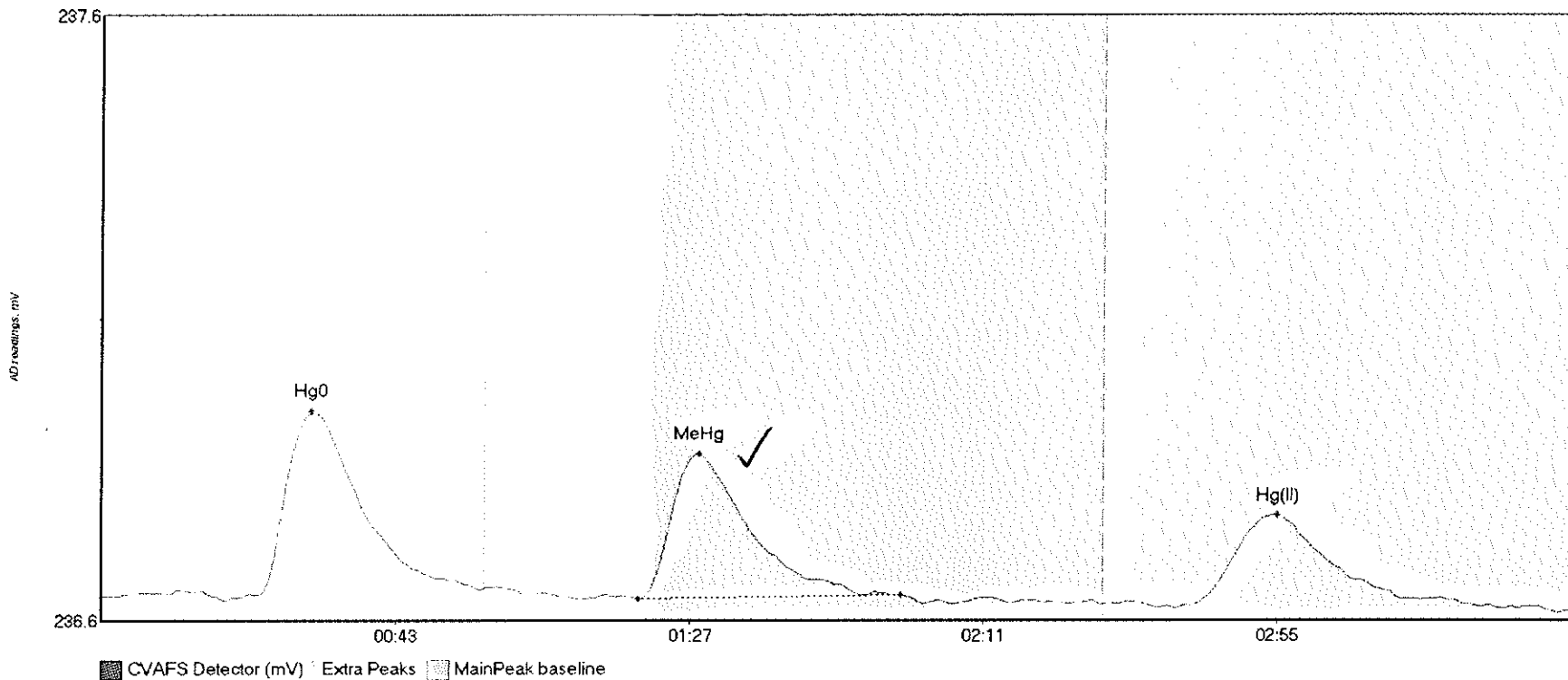
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
WS Hg0	16.389	23.2	57.4	236.82	236.84	33.2	0.121	OK	236.8295	0.00	0.00	
WS Hg (II)	23.956	160.4	212.9	236.82	236.82	172.8	0.132	OK	236.8295	0.00	0.00	

#3: SEQ-IBL1



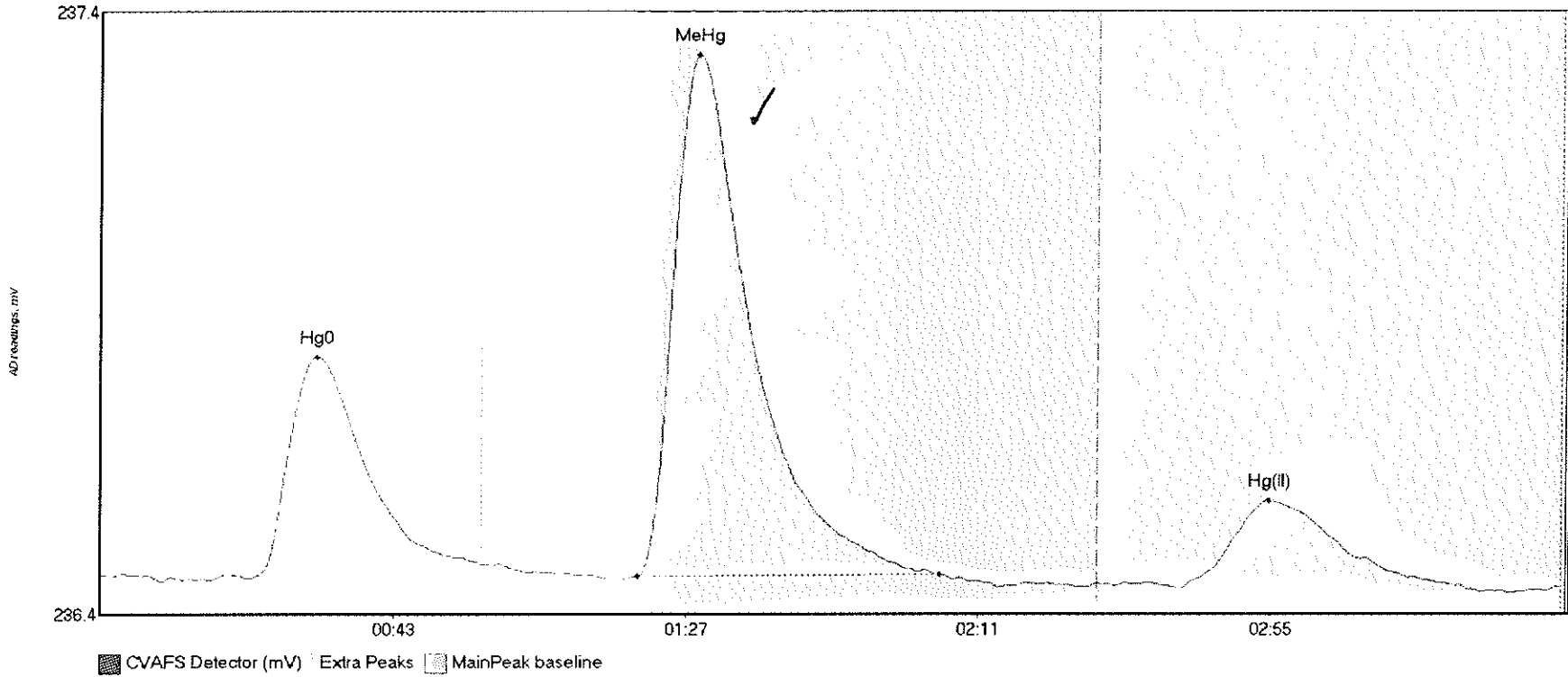
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-IBL1 Hg0	32.531	23.1	55.1	236.74	236.75	31.4	0.262	OK	236.7434	0.00	0.00	
SEQ-IBL1 MeHg	1.390	80.3	95.6	236.74	236.74	89.9	0.016	OK	236.7434	0.00	0.00	
SEQ-IBL1 Hg(II)	26.079	161.7	203.3	236.74	236.74	175.3	0.139	OK	236.7434	0.00	0.00	

#4: SEQ-CAL1



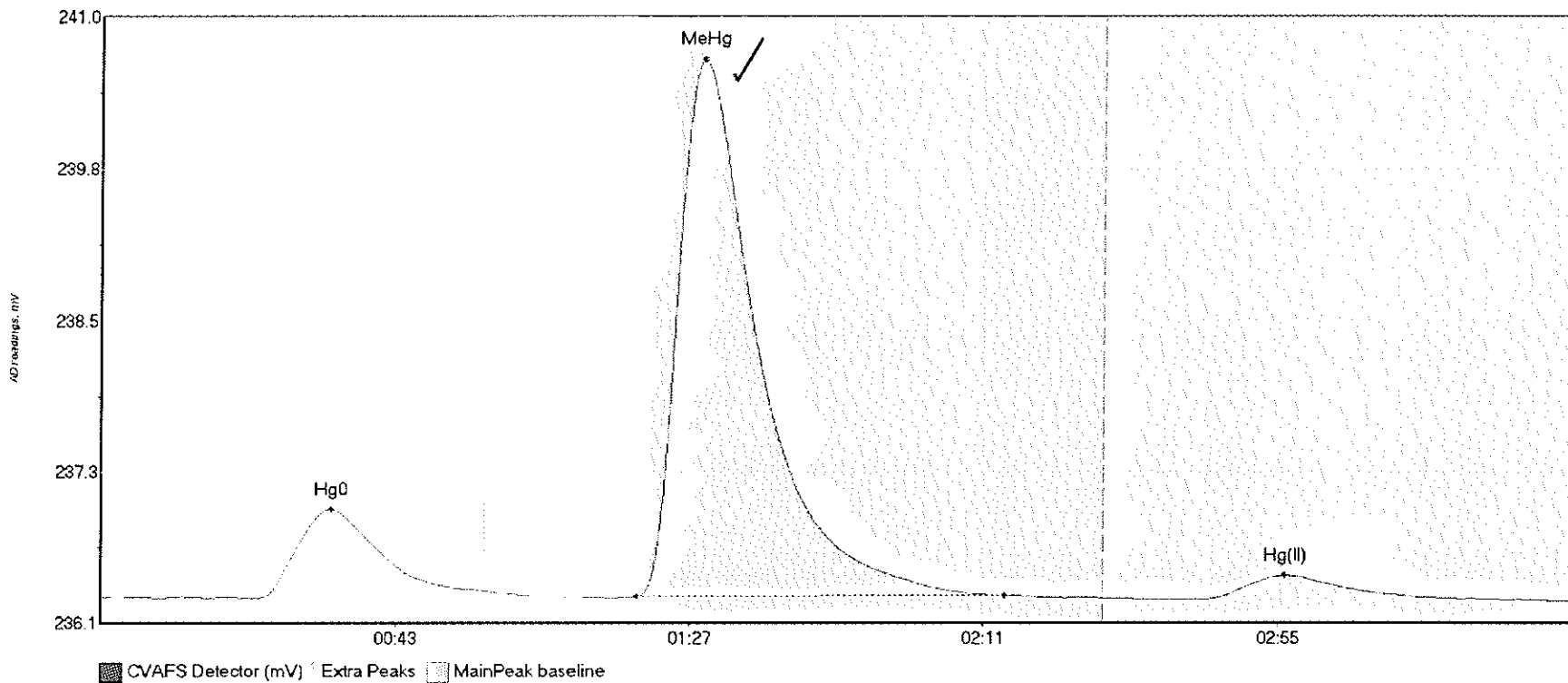
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL1 Hg0	38.376	23.3	56.7	236.63	236.64	31.3	0.303	OK	236.6303	0.00	-0.02	
SEQ-CAL1 MeHg	31.766	80.3	119.8	236.62	236.63	89.3	0.239	OK	236.6303	0.00	-0.02	
SEQ-CAL1 Hg(II)	22.043	163.5	201.5	236.62	236.62	176.0	0.149	OK	236.6303	0.00	-0.02	

#5: SEQ-CAL2



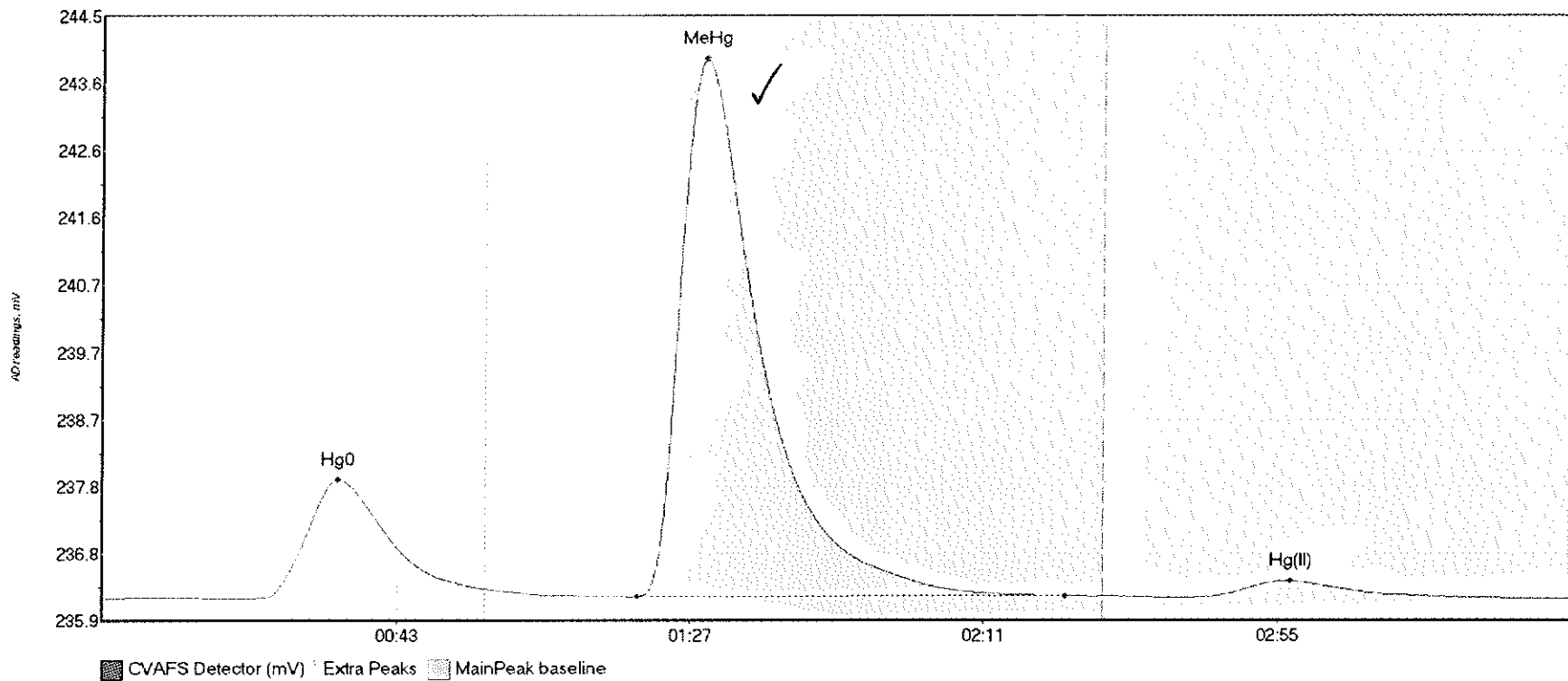
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL2 Hg0	47.270	22.4	57.5	236.49	236.51	32.5	0.372	CF	236.4919	0.00	-0.02	
SEQ-CAL2 MeHg	118.996	80.7	126.3	236.49	236.49	89.8	0.876	OK	236.4919	0.00	-0.02	
SEQ-CAL2 Hg(II)	24.963	162.1	201.5	236.47	236.48	175.8	0.147	OK	236.4919	0.00	-0.02	

#6: SEQ-CAL3



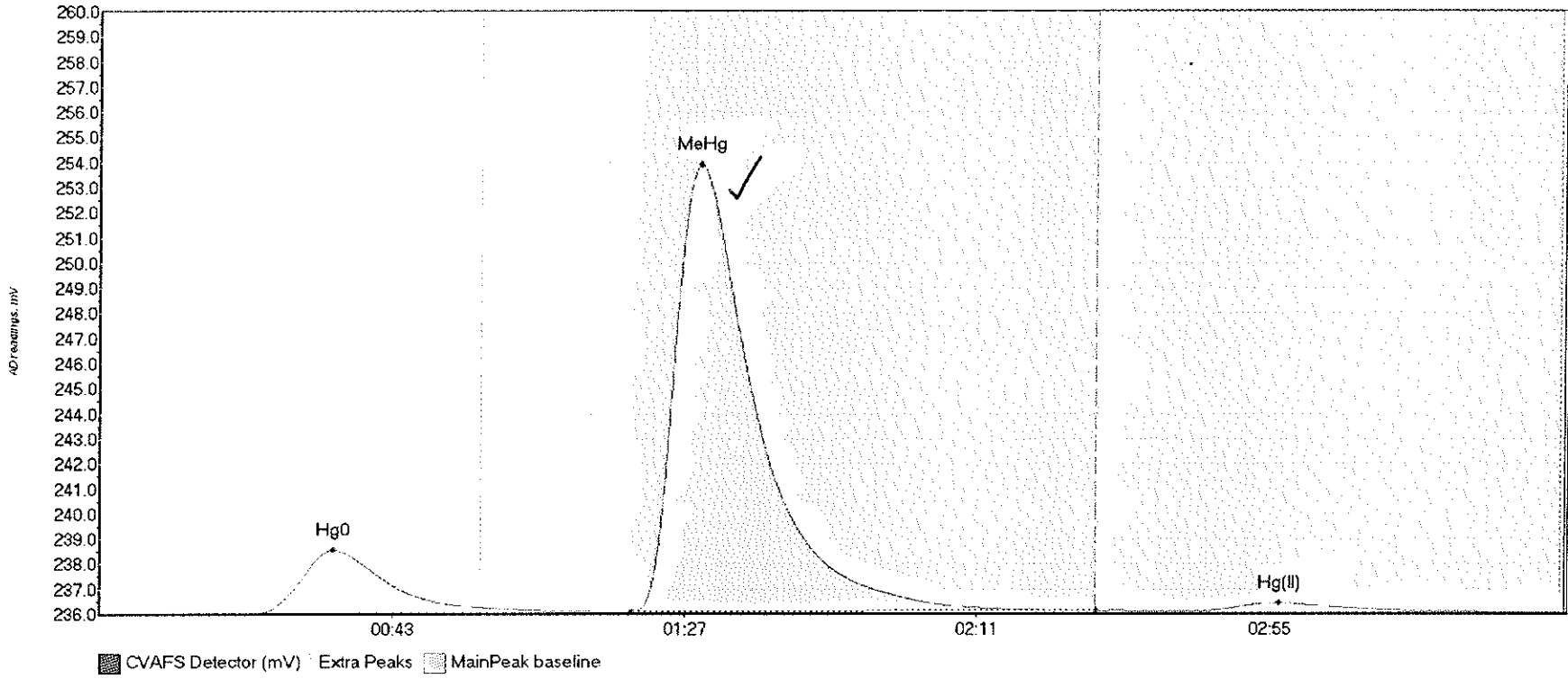
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL3 Hg0	93.673	23.4	57.5	236.34	236.39	34.4	0.707	CT	236.3432	0.00	-0.03	
SEQ-CAL3 MeHg	589.877	80.1	135.3	236.34	236.36	90.0	4.271	OK	236.3432	0.00	-0.03	
SEQ-CAL3 Hg(II)	28.056	162.8	198.2	236.32	236.34	177.1	0.191	OK	236.3432	0.00	-0.03	

#7: SEQ-CAL4



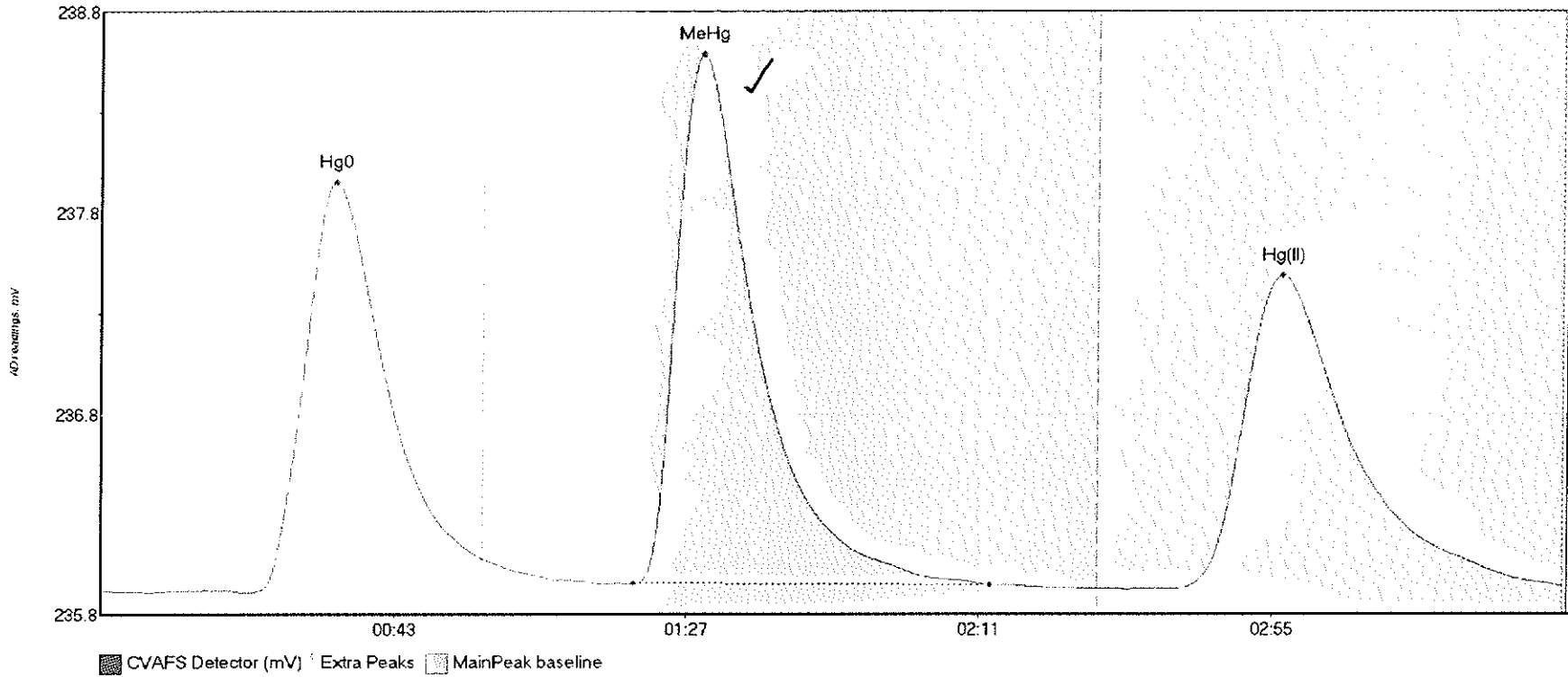
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
SEQ-CAL4 Hg0	221.762	23.4	57.5	236.19	236.31	35.2	1.690	CT	236.1832	0.00	-0.01	
SEQ-CAL4 MeHg	1071.380	80.1	144.3	236.20	236.22	90.3	7.695	OK	236.1832	0.00	-0.01	
SEQ-CAL4 Hg(II)	36.975	164.2	201.9	236.20	236.20	178.1	0.230	OK	236.1832	0.00	-0.01	

#8: SEQ-CAL5



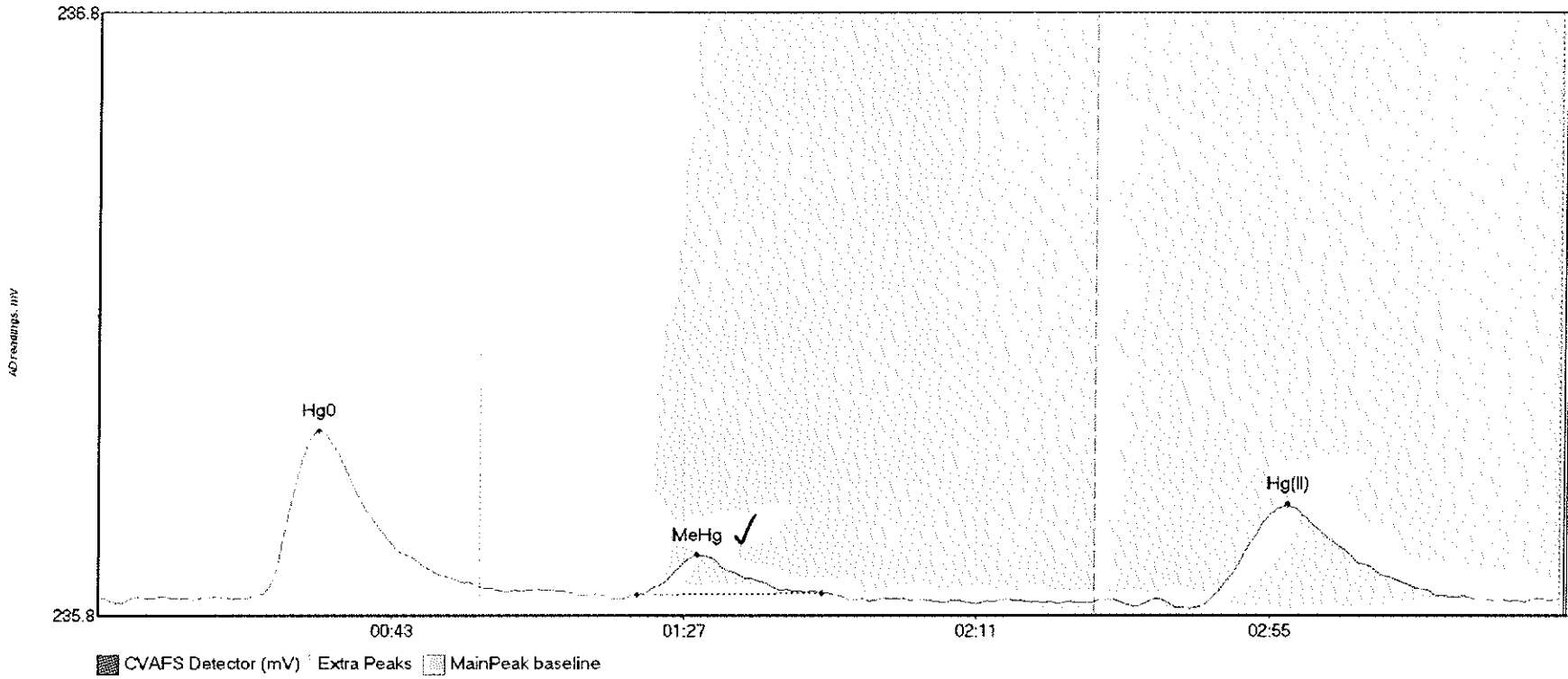
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL5 Hg0	327.439	21.3	57.5	236.04	236.26	35.2	2.516	CT	236.0467	0.00	0.03	
SEQ-CAL5 MeHg	2475.028	80.1	150.0	236.10	236.13	90.3	17.790	CT	236.0467	0.00	0.03	
SEQ-CAL5 Hg(II)	48.498	164.0	198.6	236.11	236.12	177.4	0.318	OK	236.0467	0.00	0.03	

#9: SEQ-ICV1



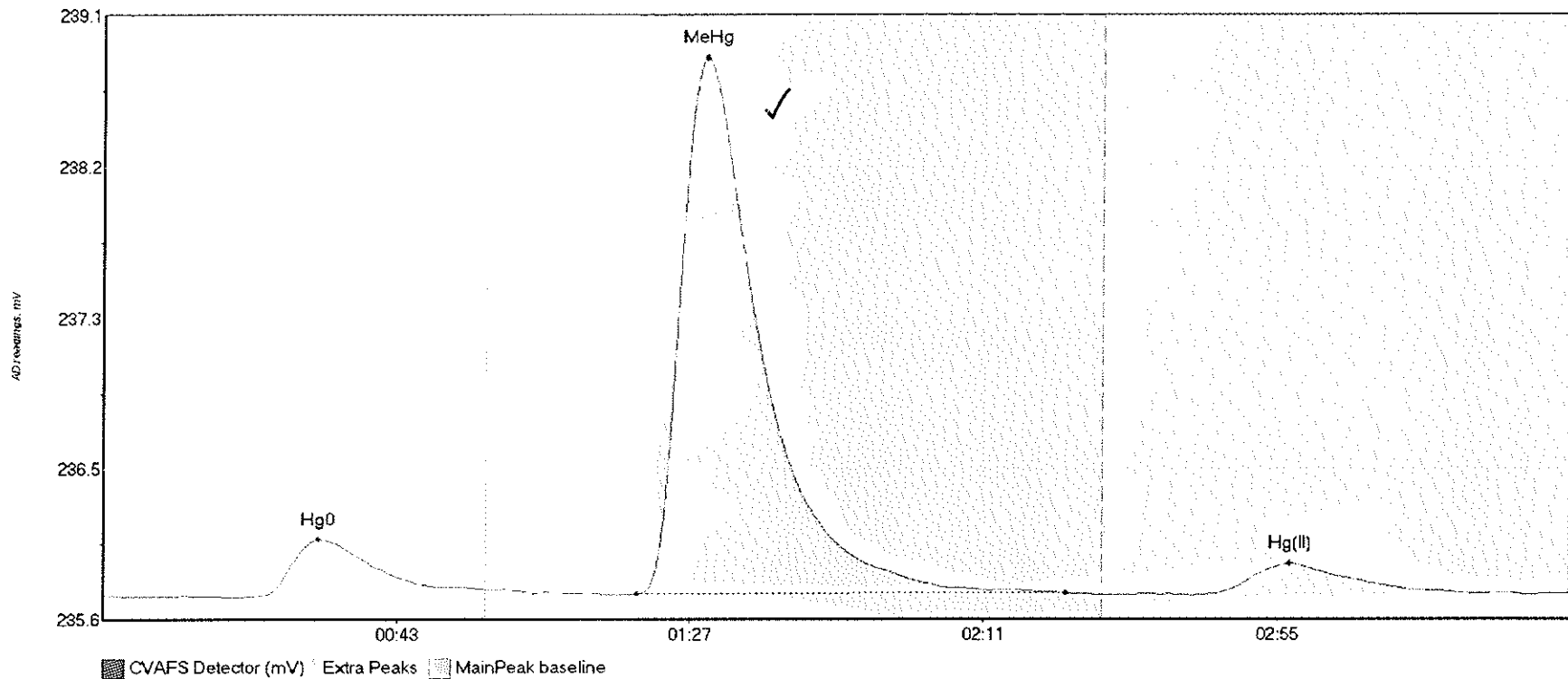
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICV1 Hg0	269.867	21.8	57.5	235.93	236.10	35.2	2.063	CT	235.9386	0.00	0.03	
SEQ-ICV1 MeHg	368.779	80.1	133.7	235.97	235.97	90.4	2.658	OK	235.9386	0.00	0.03	
SEQ-ICV1 Hg(II)	292.026	161.9	219.8	235.95	235.96	177.6	1.575	CT	235.9386	0.00	0.03	

#10: SEQ-ICB1



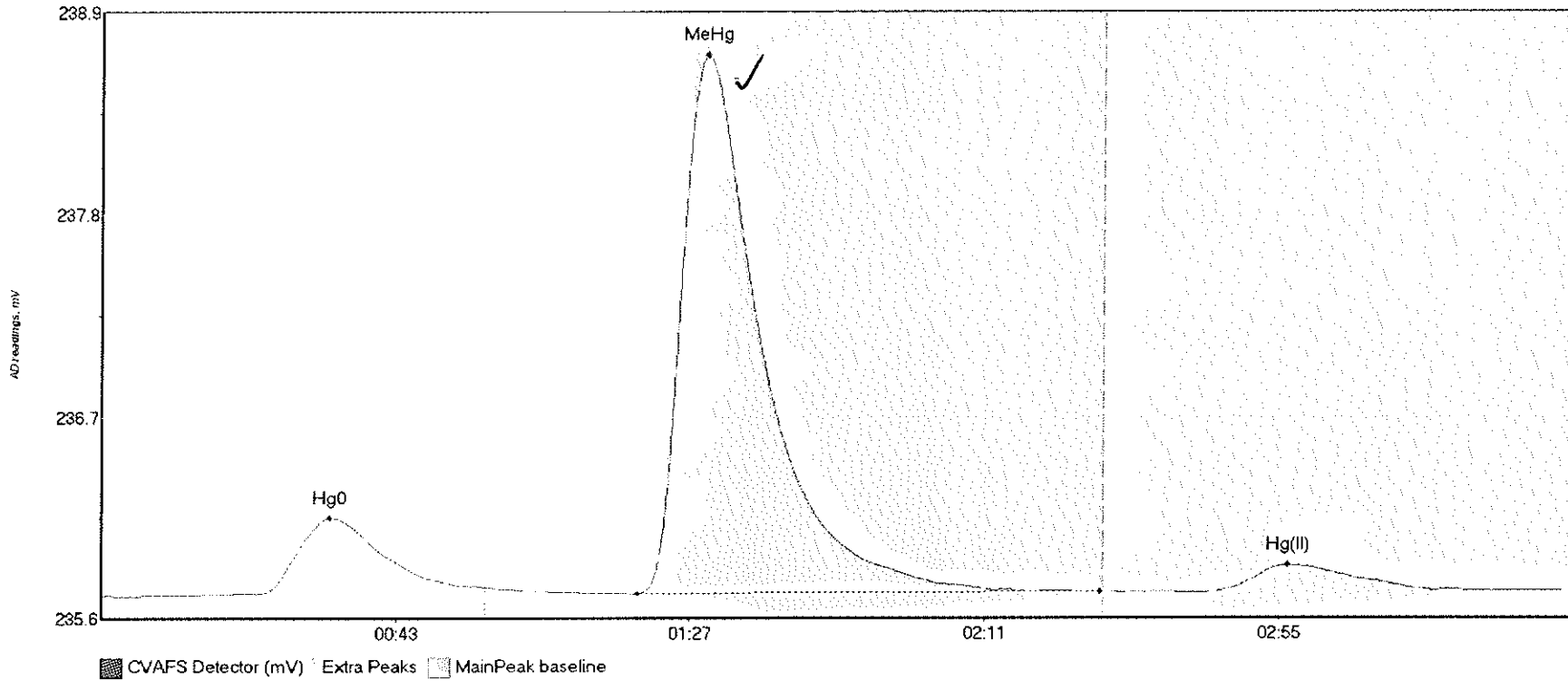
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICB1 Hg0	36.184	22.0	57.5	235.84	235.86	33.0	0.281	CT	235.8396	0.00	0.00	
SEQ-ICB1 MeHg	7.371	81.0	109.7	235.85	235.85	90.0	0.067	OK	235.8396	0.00	0.00	
SEQ-ICB1 Hg(II)	28.833	165.4	207.7	235.83	235.84	178.7	0.169	OK	235.8396	0.00	0.00	

#11: F609569-BS1



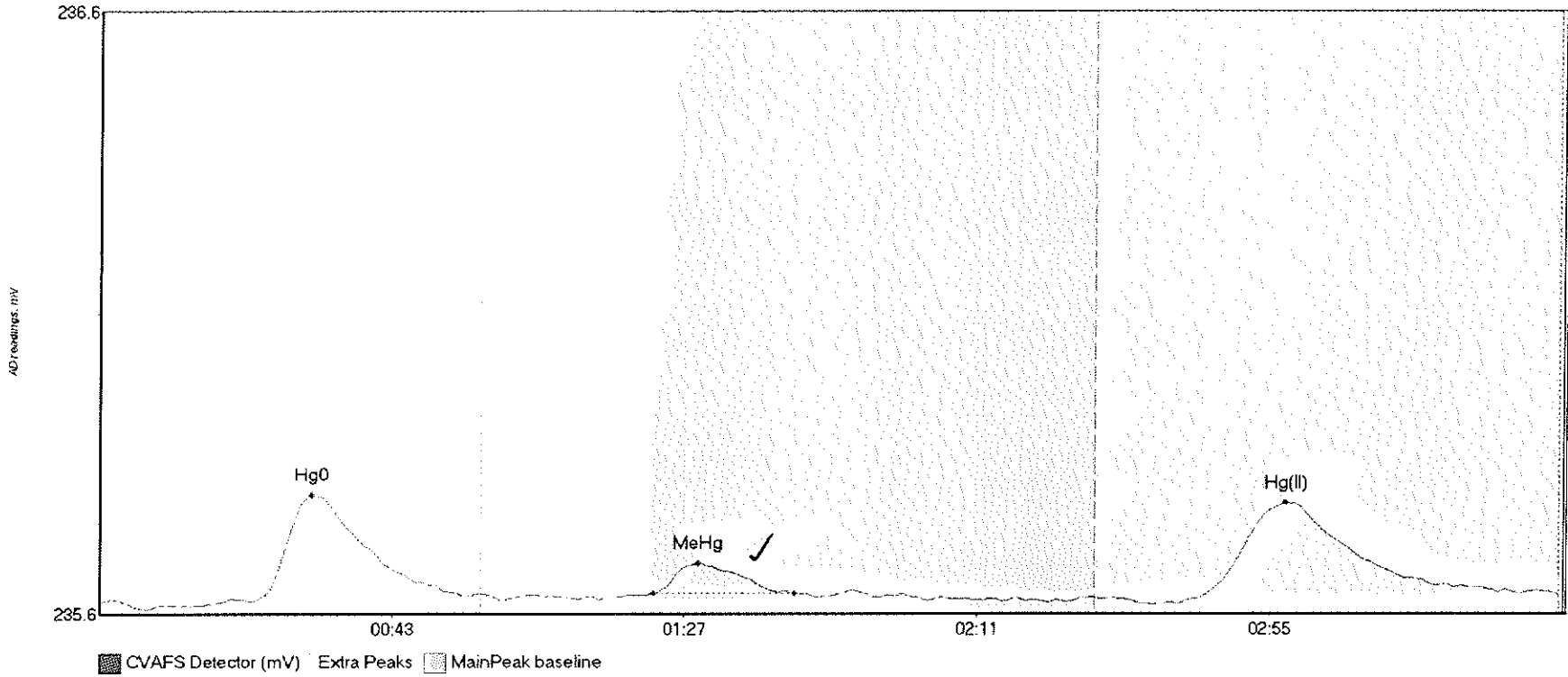
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609569-BS1 Hg0	41.376	23.4	57.5	235.76	235.80	32.3	0.321	CT	235.7641	0.00	0.01	
F609569-BS1 MeHg	420.613	80.1	144.5	235.77	235.78	90.5	3.040	OK	235.7641	0.00	0.01	
F609569-BS1 Hg(II)	29.322	164.7	205.8	235.77	235.77	177.9	0.175	OK	235.7641	0.00	0.01	

#12: F609569-BSD1



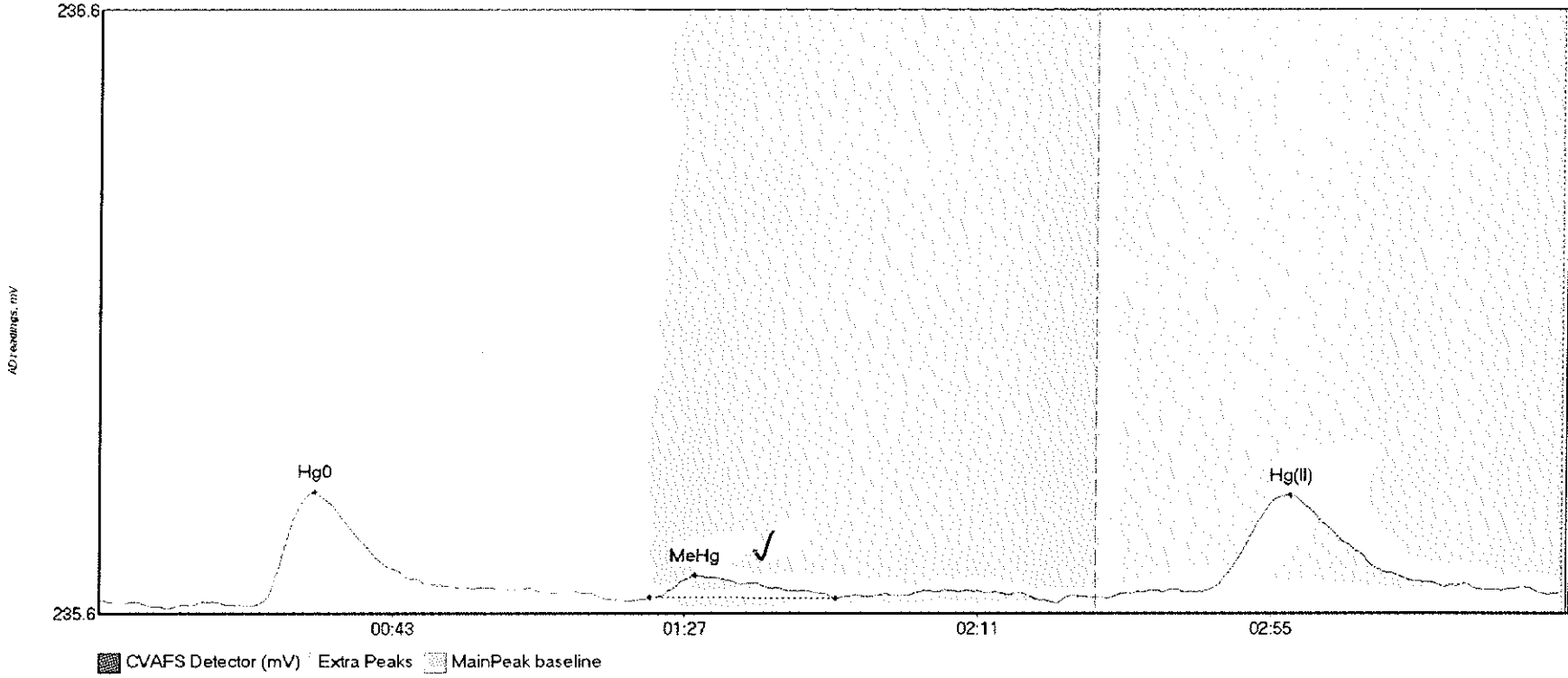
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609569-BSD1 Hg	56.554	18.6	57.5	235.70	235.73	34.2	0.423	CT	235.6920	0.00	0.02	
F609569-BSD1 Me	411.775	80.1	149.5	235.70	235.71	90.6	2.969	OK	235.6920	0.00	0.02	
F609569-BSD1 Hg	24.170	166.0	207.3	235.71	235.72	177.3	0.146	OK	235.6920	0.00	0.02	

#13: F609569-BLK1



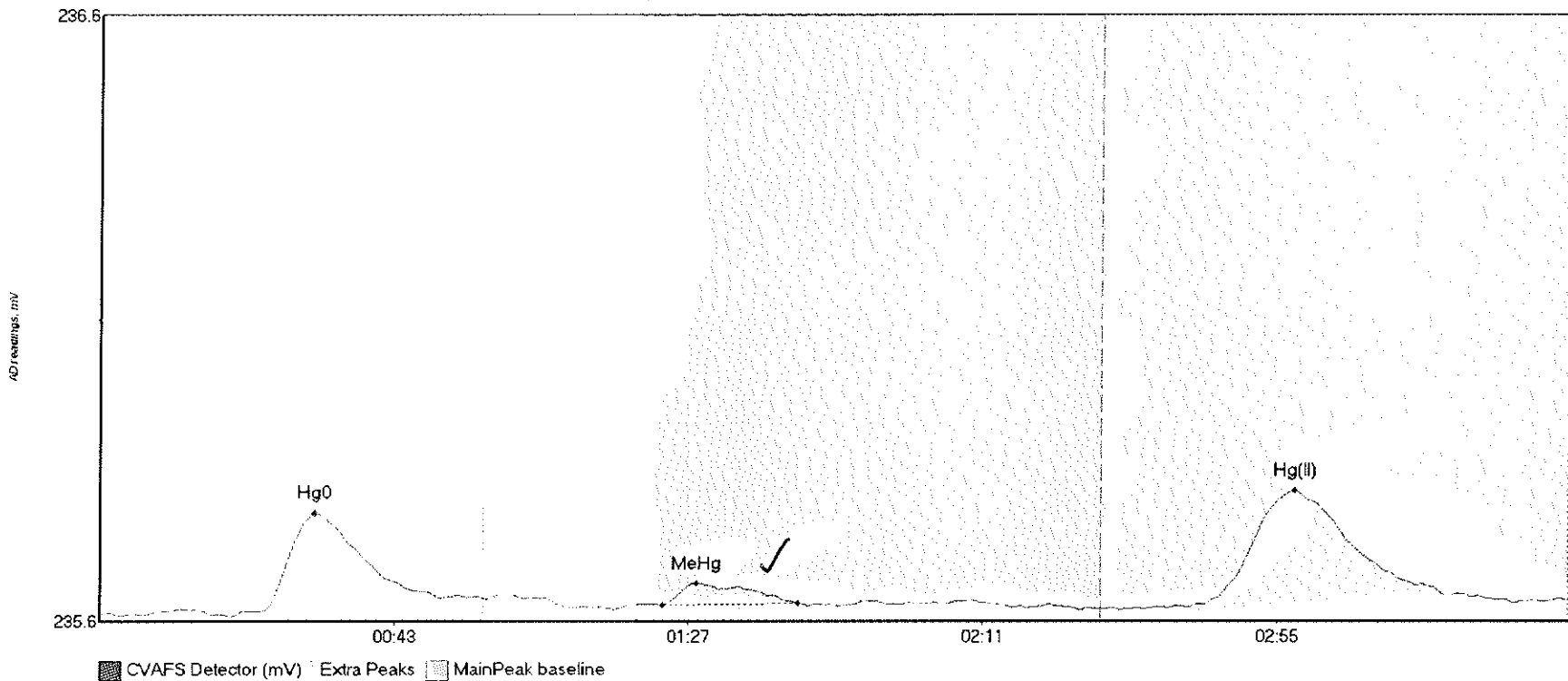
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609569-BLK1 Hg	22.917	23.2	55.0	235.64	235.65	32.0	0.176	OK	235.6445	0.00	0.01	
F609569-BLK1 Me	5.399	83.4	104.6	235.66	235.66	90.2	0.050	OK	235.6445	0.00	0.01	
F609569-BLK1 Hg	29.930	164.9	219.8	235.65	235.66	178.4	0.159	CT	235.6445	0.00	0.01	

#14: F609569-BLK2



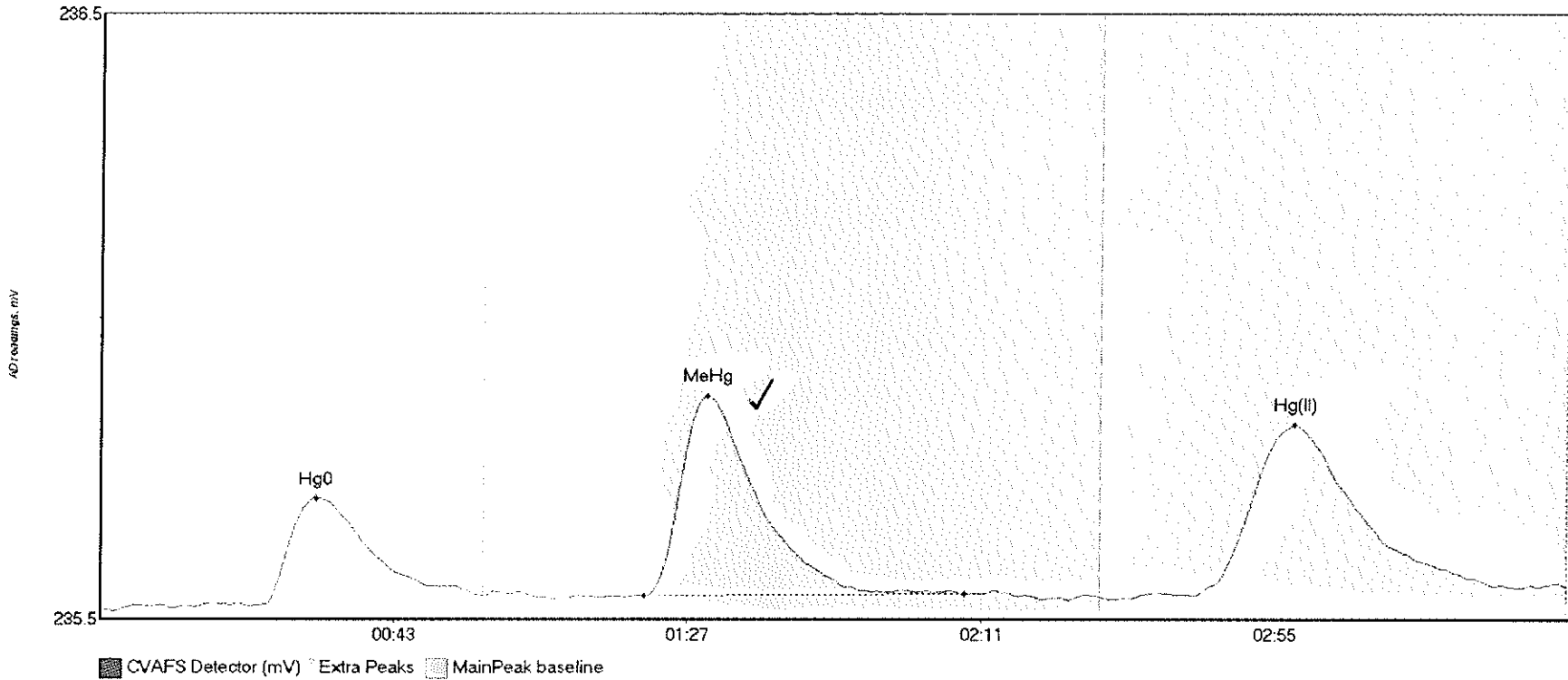
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609569-BLK2 Hg	23.000	23.0	56.1	235.60	235.63	32.4	0.189	OK	235.6125	0.00	0.01	
F609569-BLK2 Me	5.436	82.9	110.6	235.62	235.62	89.6	0.037	OK	235.6125	0.00	0.01	
F609569-BLK2 Hg	31.894	151.5	217.8	235.62	235.62	179.1	0.171	OK	235.6125	0.00	0.01	

#15: F609569-BLK3



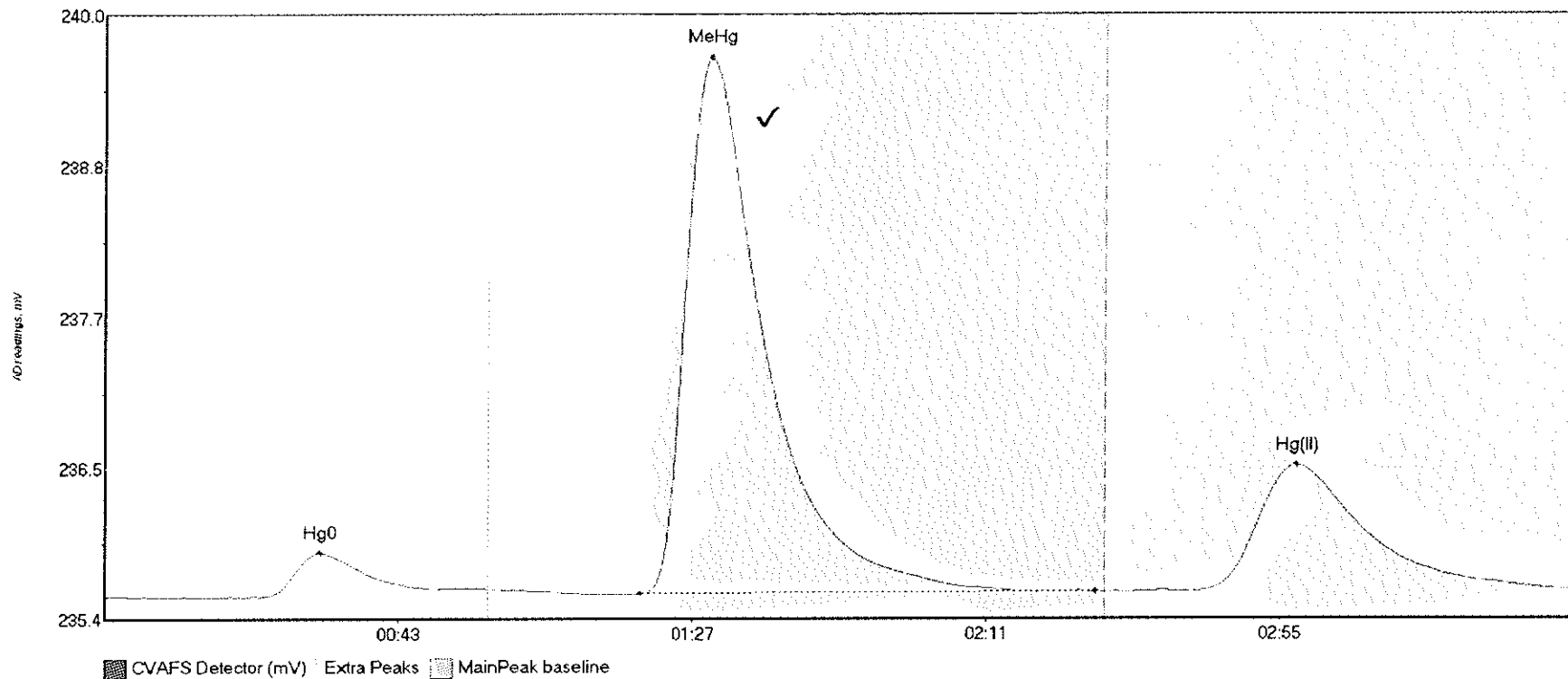
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609569-BLK3 Hg	19.449	23.9	57.5	235.59	235.61	32.2	0.162	CT	235.5811	0.00	0.02	
F609569-BLK3 Me	4.080	84.1	104.4	235.60	235.60	89.3	0.036	OK	235.5811	0.00	0.02	
F609569-BLK3 Hg	34.078	162.9	211.8	235.59	235.60	178.6	0.193	OK	235.5811	0.00	0.02	

#16: F609569-DUP1



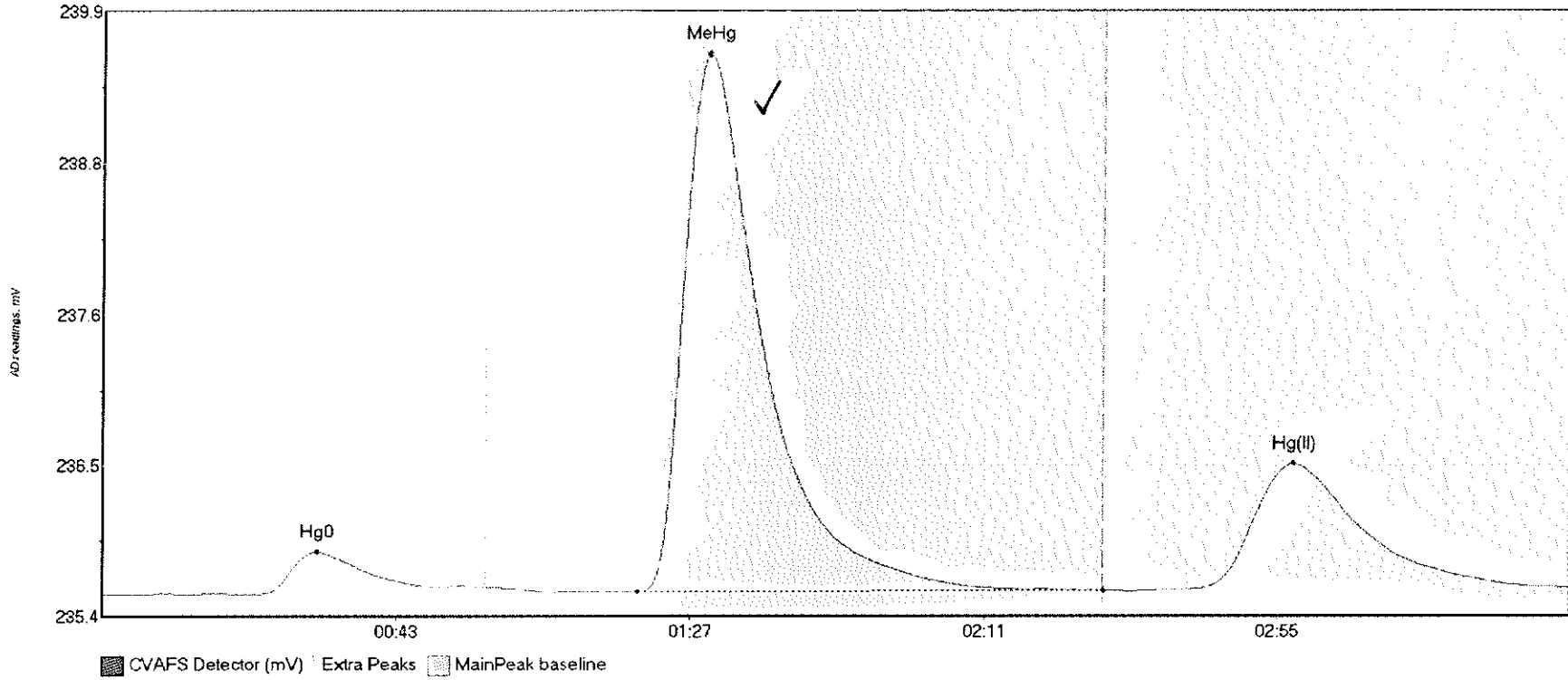
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609569-DUP1 Hg	23.682	22.6	57.2	235.56	235.58	32.4	0.180	OK	235.5565	0.00	0.04	
F609569-DUP1 Me	43.646	81.6	129.5	235.58	235.58	91.0	0.331	OK	235.5565	0.00	0.04	
F609569-DUP1 Hg	50.213	164.2	212.5	235.58	235.59	178.9	0.282	OK	235.5565	0.00	0.04	

#17: F609569-MS1



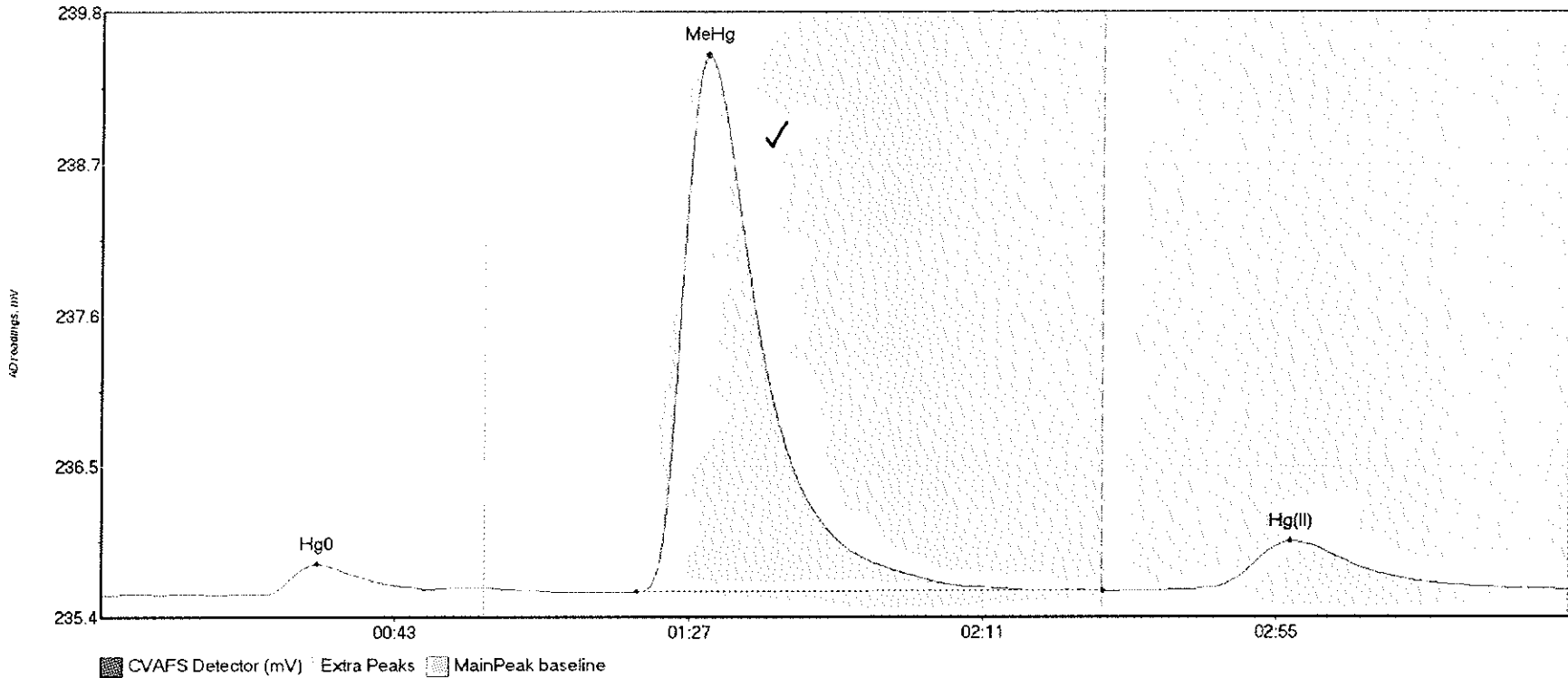
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609569-MS1 Hg0	37.563	23.8	57.5	235.54	235.60	32.4	0.335	CT	235.5443	0.00	0.05	
F609569-MS1 MeH	563.407	80.1	148.5	235.57	235.58	90.9	4.073	OK	235.5443	0.00	0.05	
F609569-MS1 Hg(	176.875	163.0	218.8	235.58	235.60	178.6	0.963	OK	235.5443	0.00	0.05	

#18: F609569-MSD1



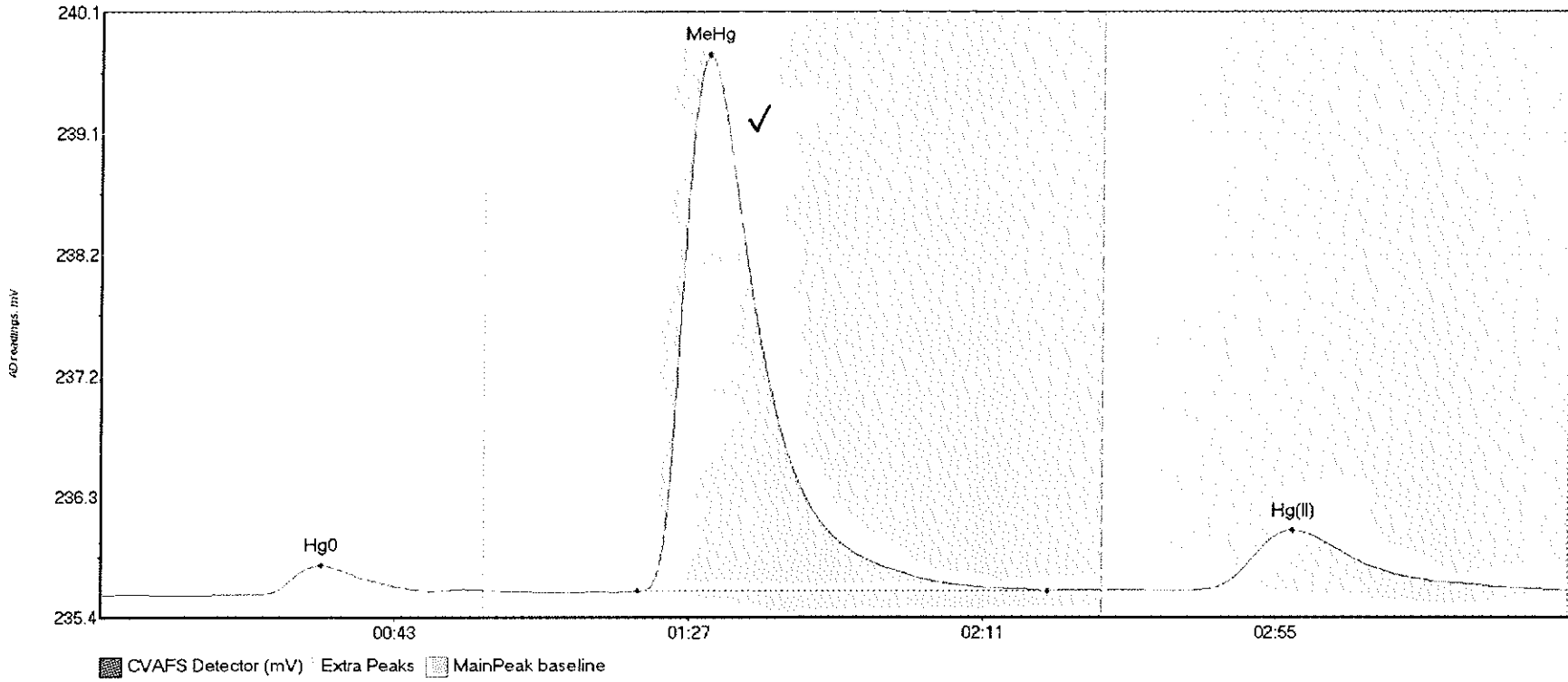
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609569-MSD1 Hg	36.755	23.3	57.5	235.53	235.58	32.3	0.315	CT	235.5298	0.00	0.05	
F609569-MSD1 Me	556.919	80.1	150.0	235.55	235.56	90.8	4.030	CT	235.5298	0.00	0.05	
F609569-MSD1 Hg	175.468	156.9	219.8	235.56	235.58	178.5	0.956	CT	235.5298	0.00	0.05	

#19: F609569-MS2



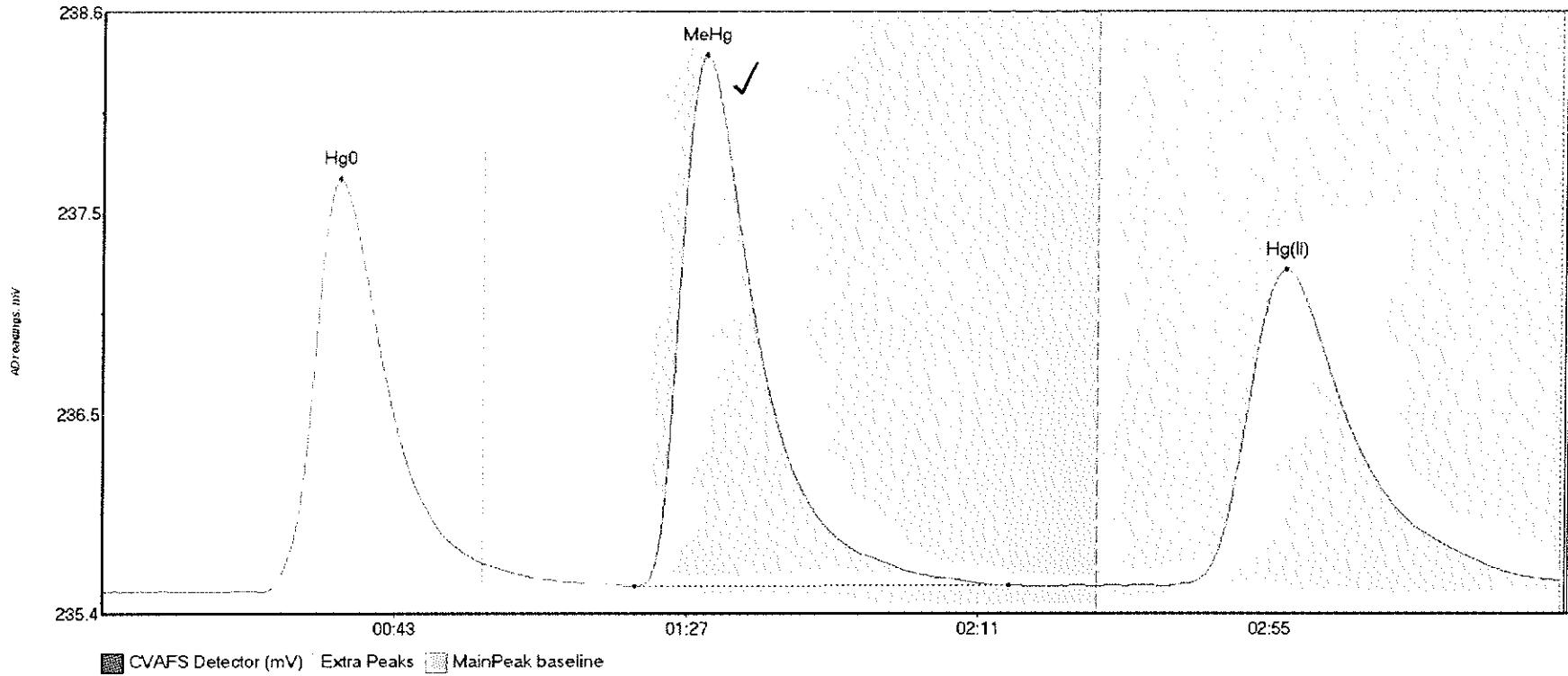
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609569-MS2 Hg0	23.281	17.5	48.9	235.52	235.56	32.5	0.229	OK	235.5205	0.00	0.05	
F609569-MS2 MeH	546.592	80.1	150.0	235.55	235.55	90.8	3.951	CT	235.5205	0.00	0.05	
F609569-MS2 Hg(	68.626	151.7	218.8	235.55	235.57	178.2	0.371	OK	235.5205	0.00	0.05	

#20: F609569-MSD2



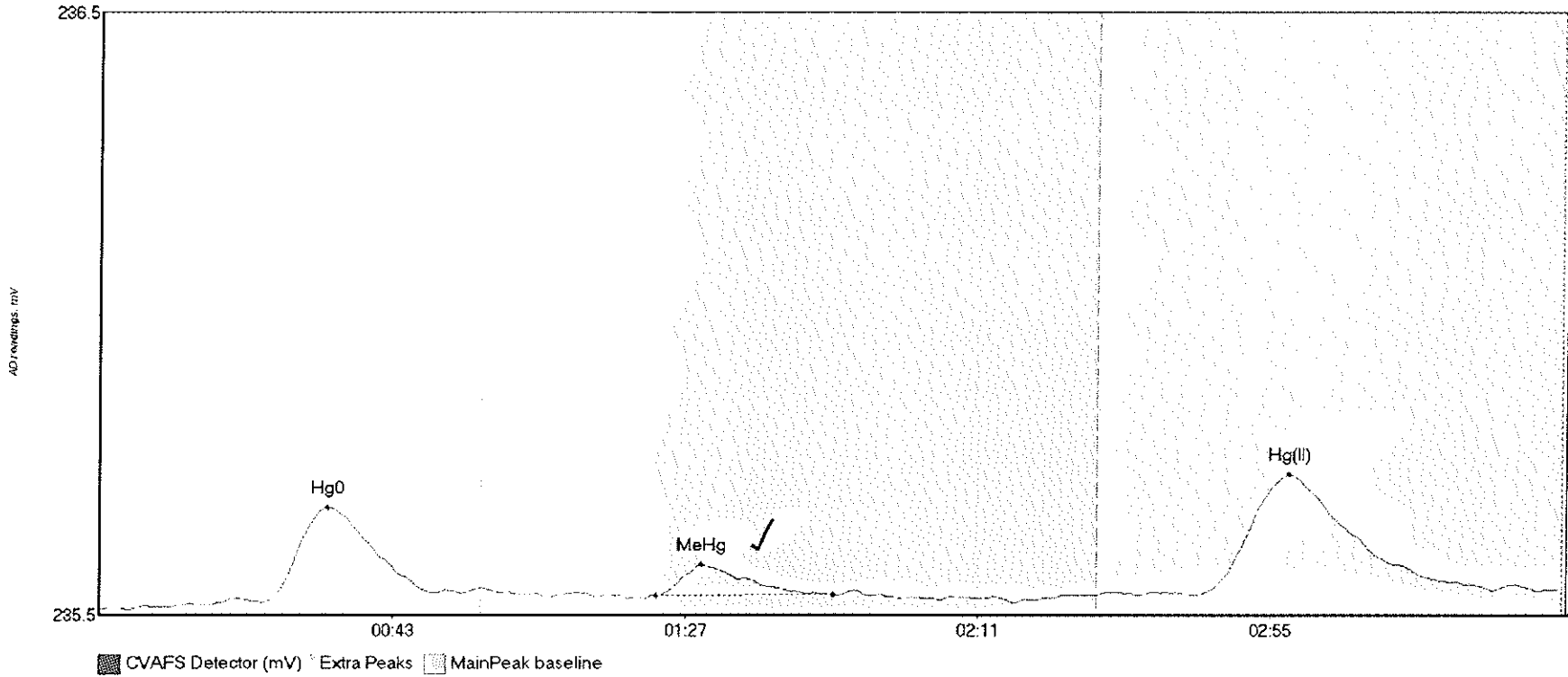
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609569-MSD2 Hg	25.085	23.7	49.7	235.53	235.56	33.0	0.225	OK	235.5291	0.00	0.04	
F609569-MSD2 Me	575.917	80.3	141.7	235.56	235.56	90.9	4.179	OK	235.5291	0.00	0.04	
F609569-MSD2 Hg	87.677	163.2	218.9	235.57	235.57	178.6	0.470	OK	235.5291	0.00	0.04	

#21: SEQ-CCV1



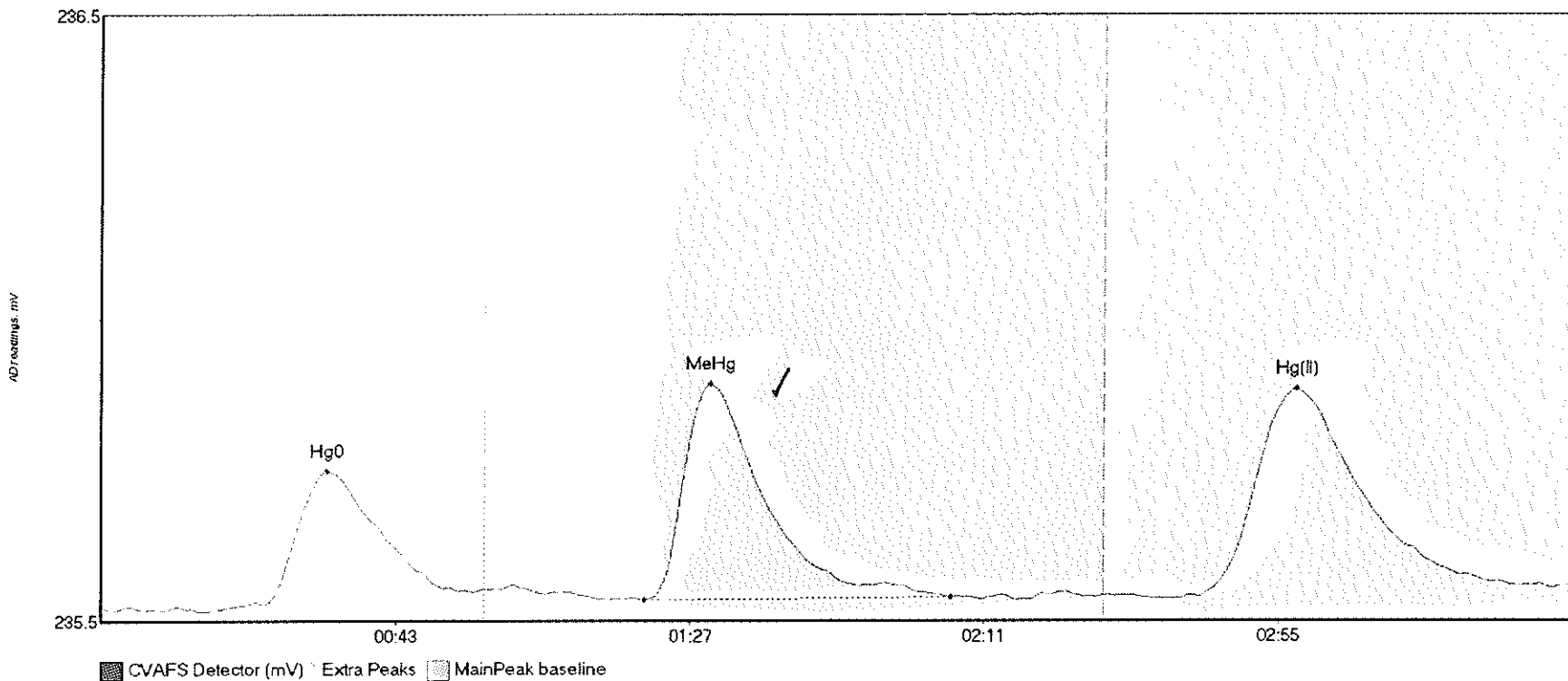
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0	256.825	24.0	57.5	235.53	235.67	35.7	2.167	CT	235.5248	0.00	0.06	
SEQ-CCV1 MeHg	384.883	80.1	136.7	235.55	235.56	90.8	2.789	OK	235.5248	0.00	0.06	
SEQ-CCV1 Hg(II)	306.213	160.1	219.8	235.55	235.58	178.5	1.662	CT	235.5248	0.00	0.06	

#22: SEQ-CCB1



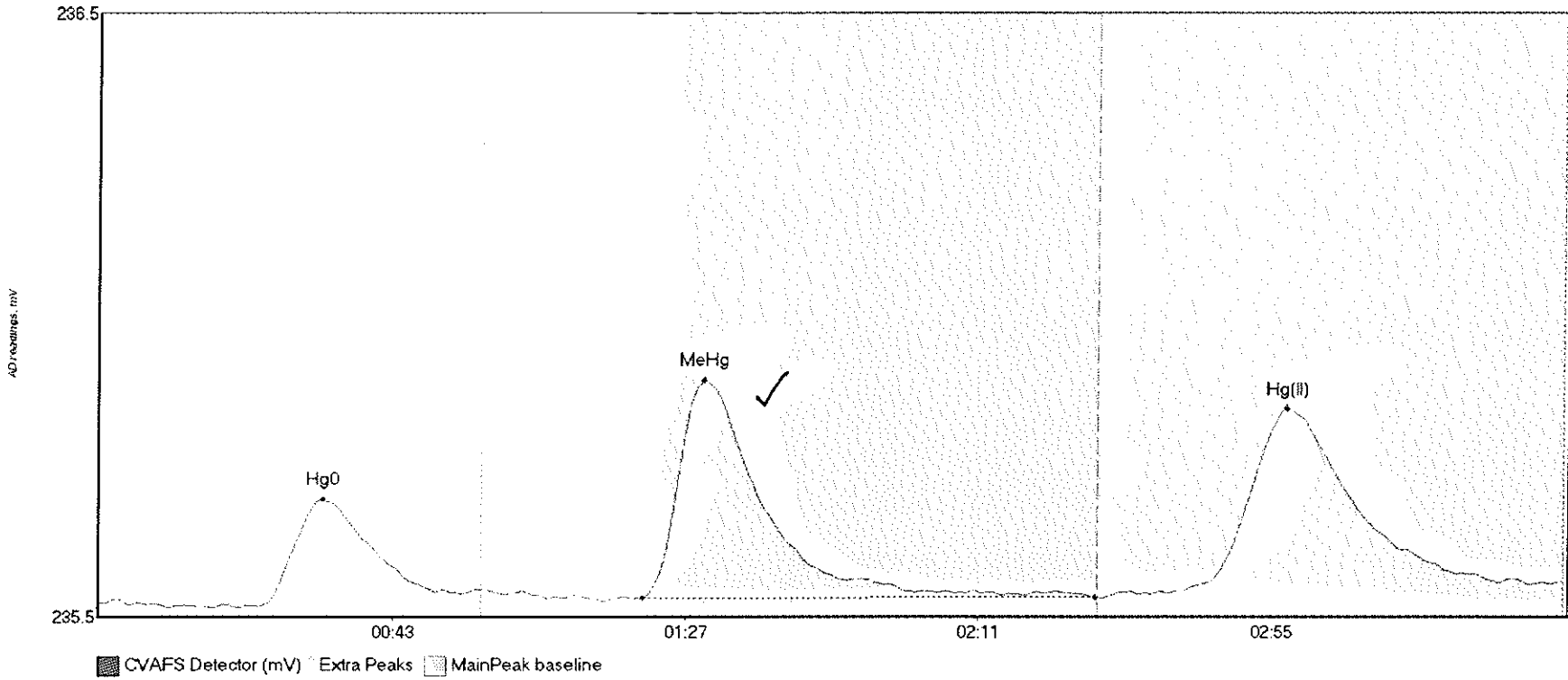
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB1 Hg0	19.744	10.8	54.4	235.51	235.54	34.2	0.166	OK	235.5104	0.00	0.03	
SEQ-CCB1 MeHg	5.556	83.6	110.3	235.53	235.53	90.4	0.051	OK	235.5104	0.00	0.03	
SEQ-CCB1 Hg(II)	35.254	165.1	216.4	235.53	235.54	178.9	0.200	OK	235.5104	0.00	0.03	

#23: 1608980-01RE1



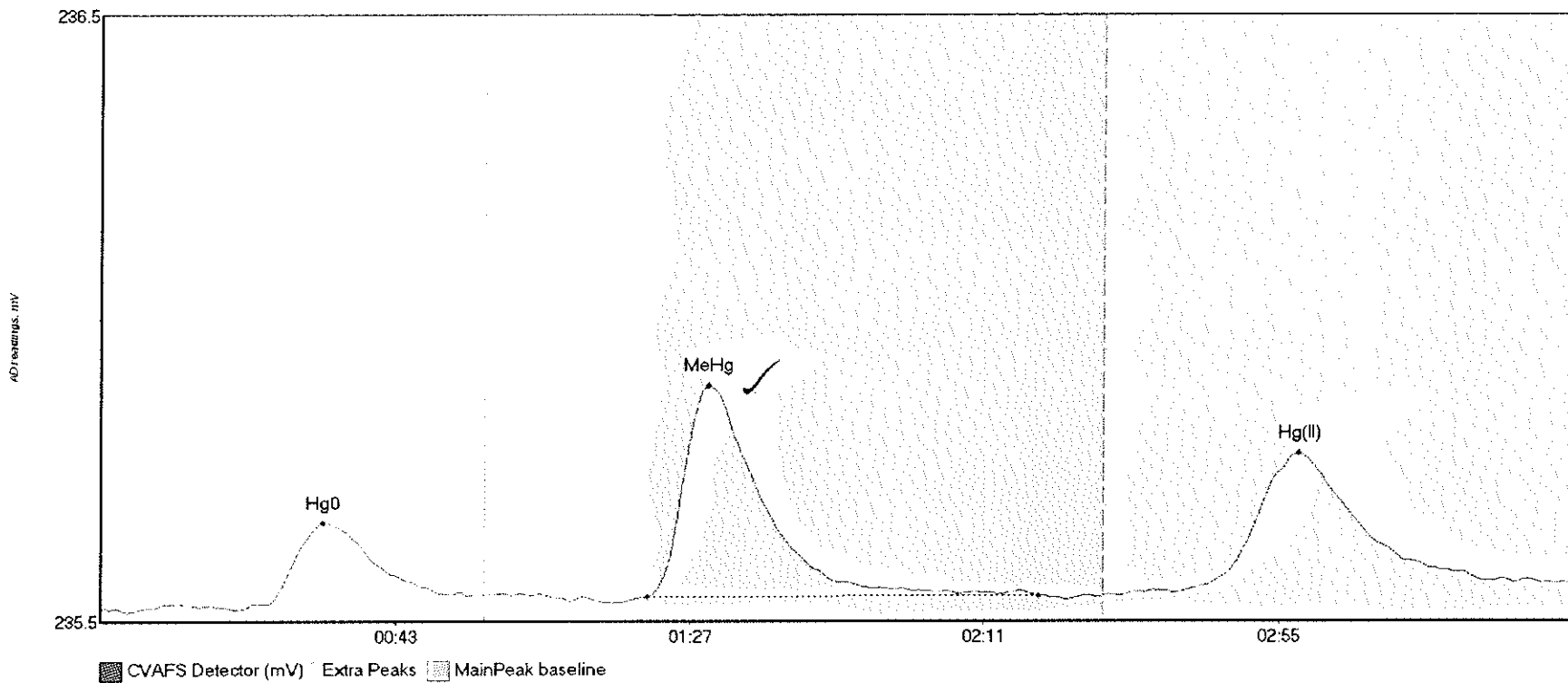
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608980-01RE1 H	28.859	21.3	55.6	235.51	235.53	33.7	0.223	OK	235.5072	0.00	0.04	
1608980-01RE1 M	49.374	81.1	127.2	235.52	235.53	91.0	0.357	OK	235.5072	0.00	0.04	
1608980-01RE1 H	61.350	164.1	217.1	235.53	235.54	178.7	0.342	OK	235.5072	0.00	0.04	

#24: 1608980-02RE1



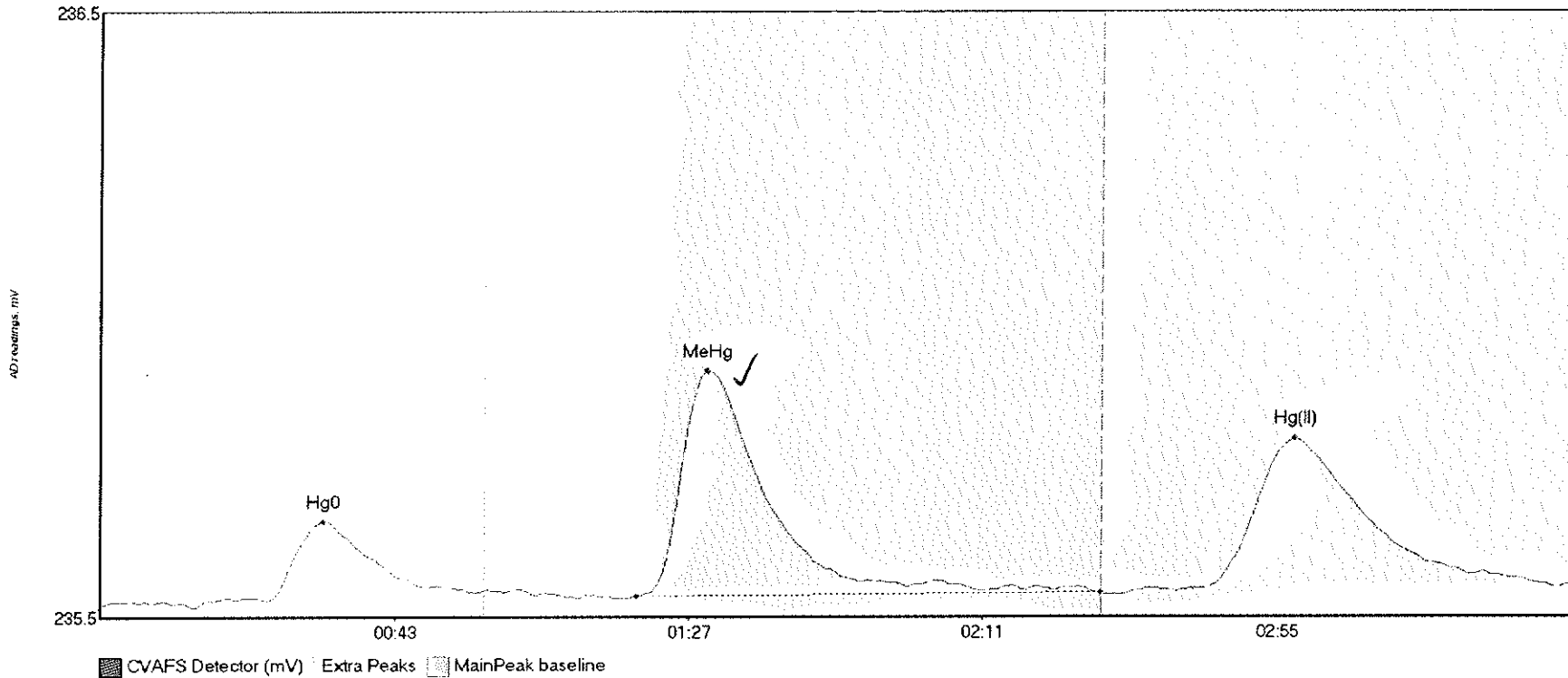
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608980-02RE1 H	21.630	23.9	54.1	235.50	235.52	33.4	0.177	OK	235.5006	0.00	0.04	
1608980-02RE1 M	52.780	81.6	149.6	235.51	235.51	90.8	0.361	OK	235.5006	0.00	0.04	
1608980-02RE1 H	55.869	150.8	215.0	235.51	235.53	178.3	0.314	OK	235.5006	0.00	0.04	

#25: 1608980-03RE1



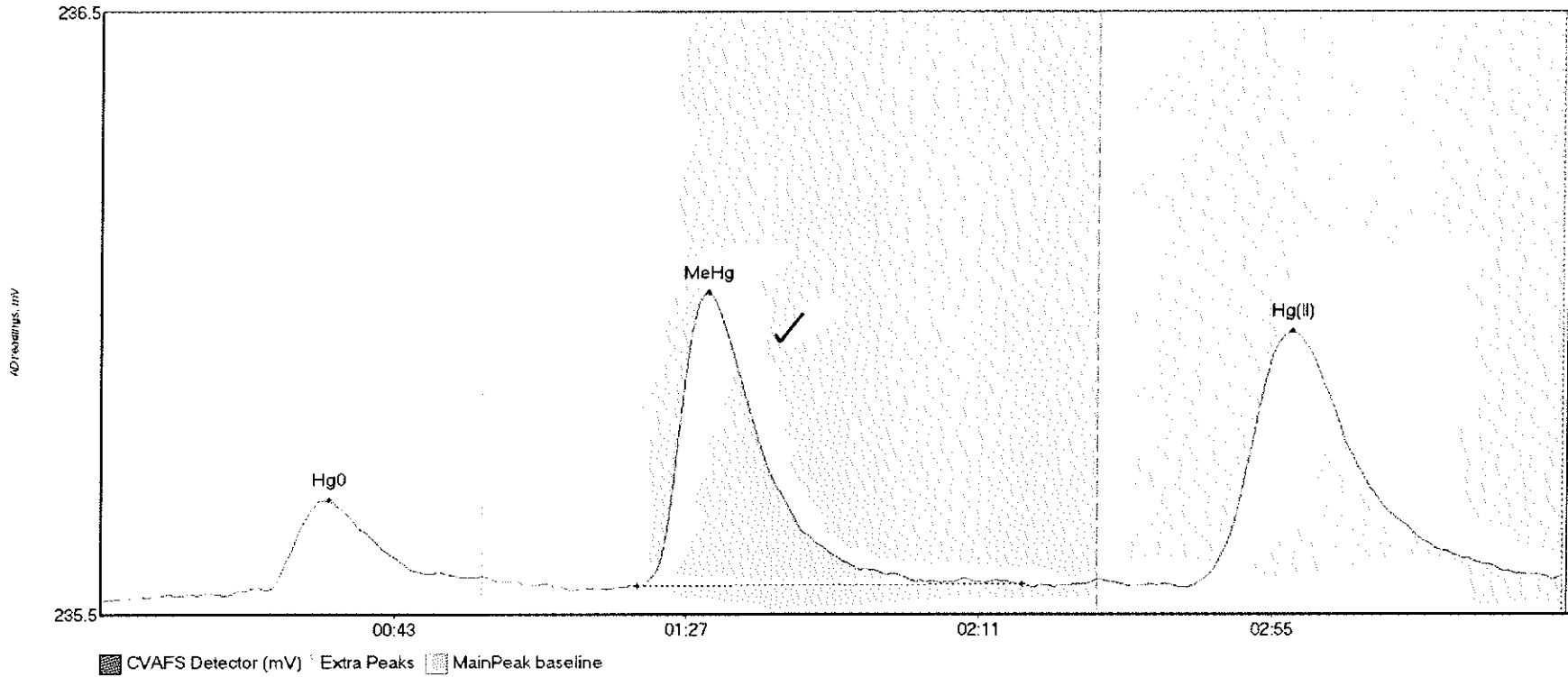
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608980-03RE1 H	17.747	21.3	54.9	235.50	235.52	33.2	0.143	OK	235.5042	0.00	0.04	
1608980-03RE1 M	47.056	81.7	140.3	235.52	235.52	90.7	0.349	OK	235.5042	0.00	0.04	
1608980-03RE1 H	40.544	160.8	219.8	235.53	235.54	179.1	0.229	CT	235.5042	0.00	0.04	

#26: 1608980-04RE1



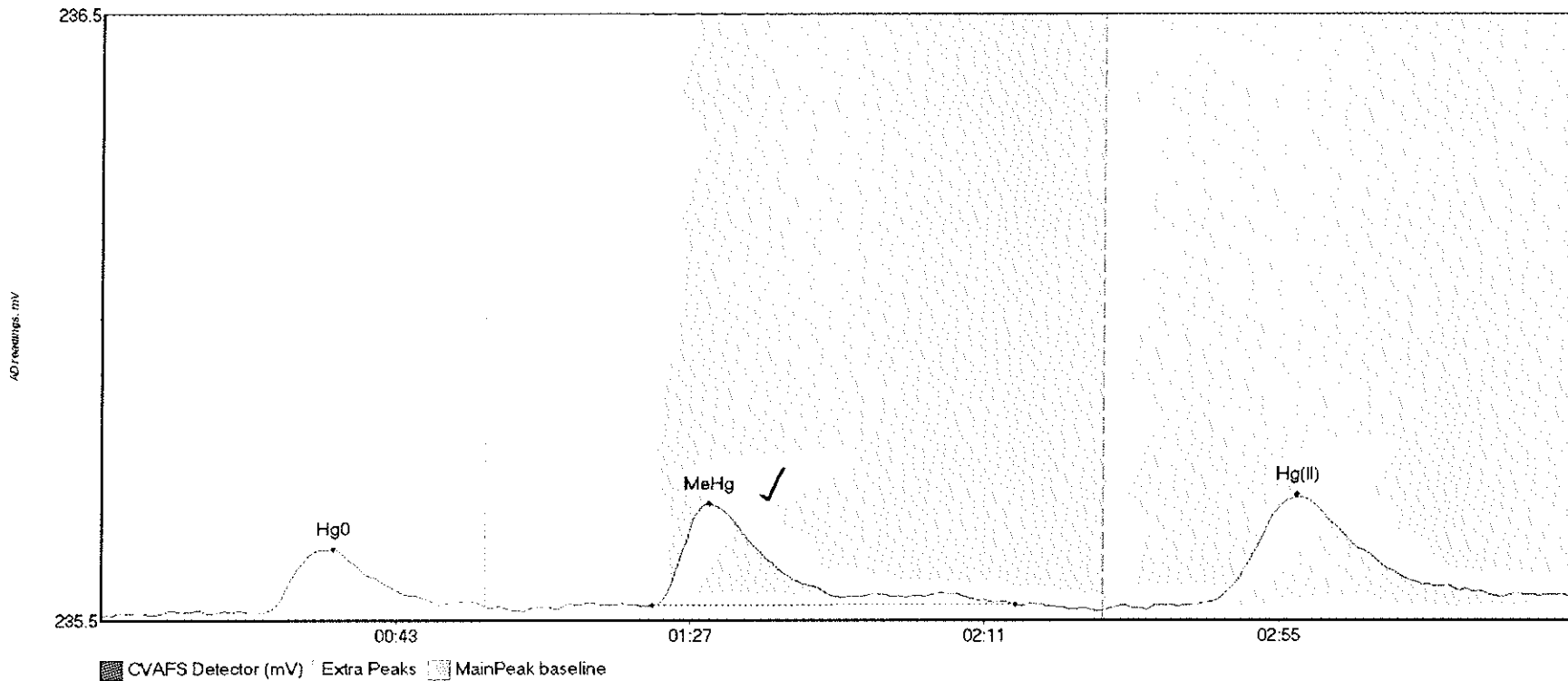
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608980-04RE1 H	17.745	14.0	55.8	235.50	235.53	33.3	0.143	OK	235.5060	0.00	0.03	
1608980-04RE1 M	54.832	80.1	149.7	235.52	235.53	90.8	0.374	OK	235.5060	0.00	0.03	
1608980-04RE1 H	49.421	153.2	217.7	235.52	235.54	178.6	0.256	OK	235.5060	0.00	0.03	

#27: 1608980-05RE1



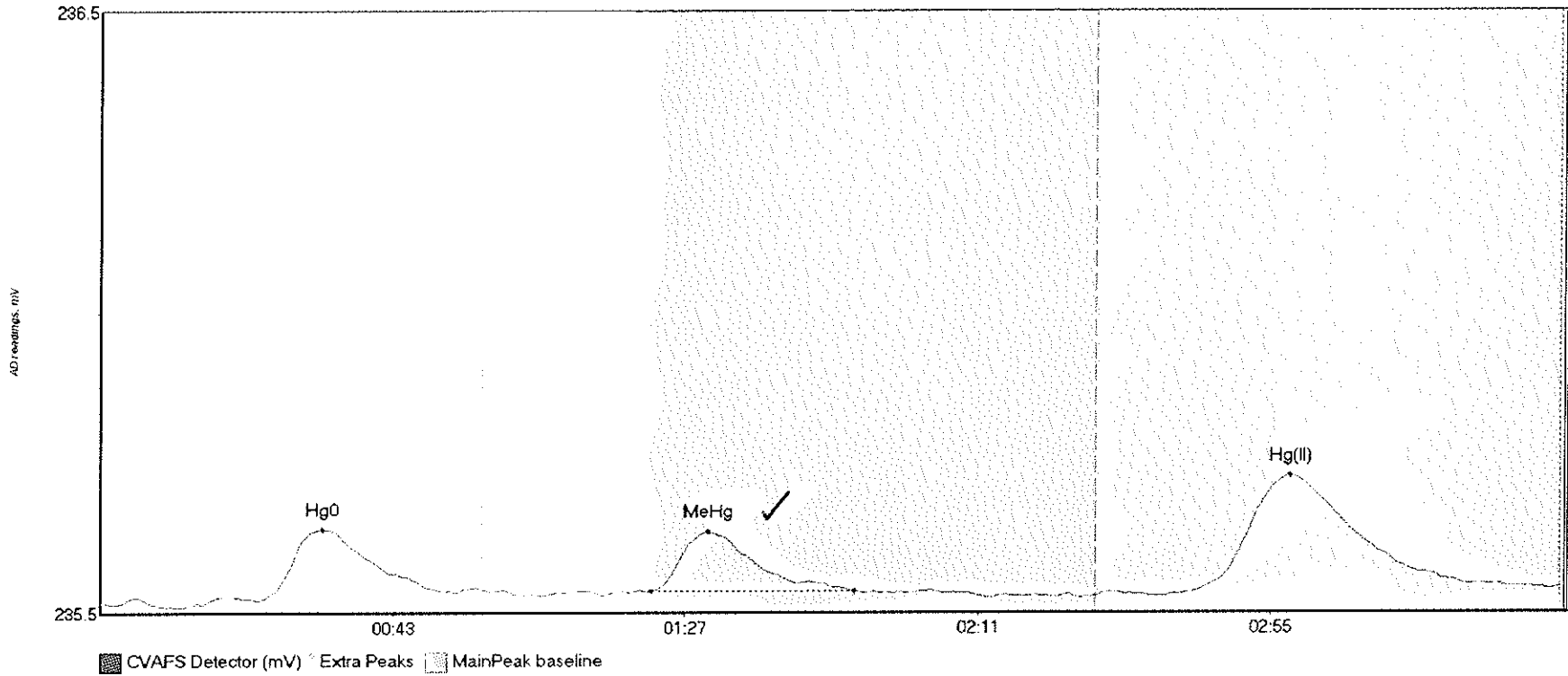
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1608980-05RE1 H	18.544	6.2	56.4	235.51	235.54	34.3	0.163	OK	235.5042	0.00	0.04	
1608980-05RE1 M	68.796	80.8	138.6	235.53	235.53	91.3	0.488	OK	235.5042	0.00	0.04	
1608980-05RE1 H	78.495	163.3	218.3	235.53	235.54	179.0	0.424	OK	235.5042	0.00	0.04	

#28: 1608980-06RE1



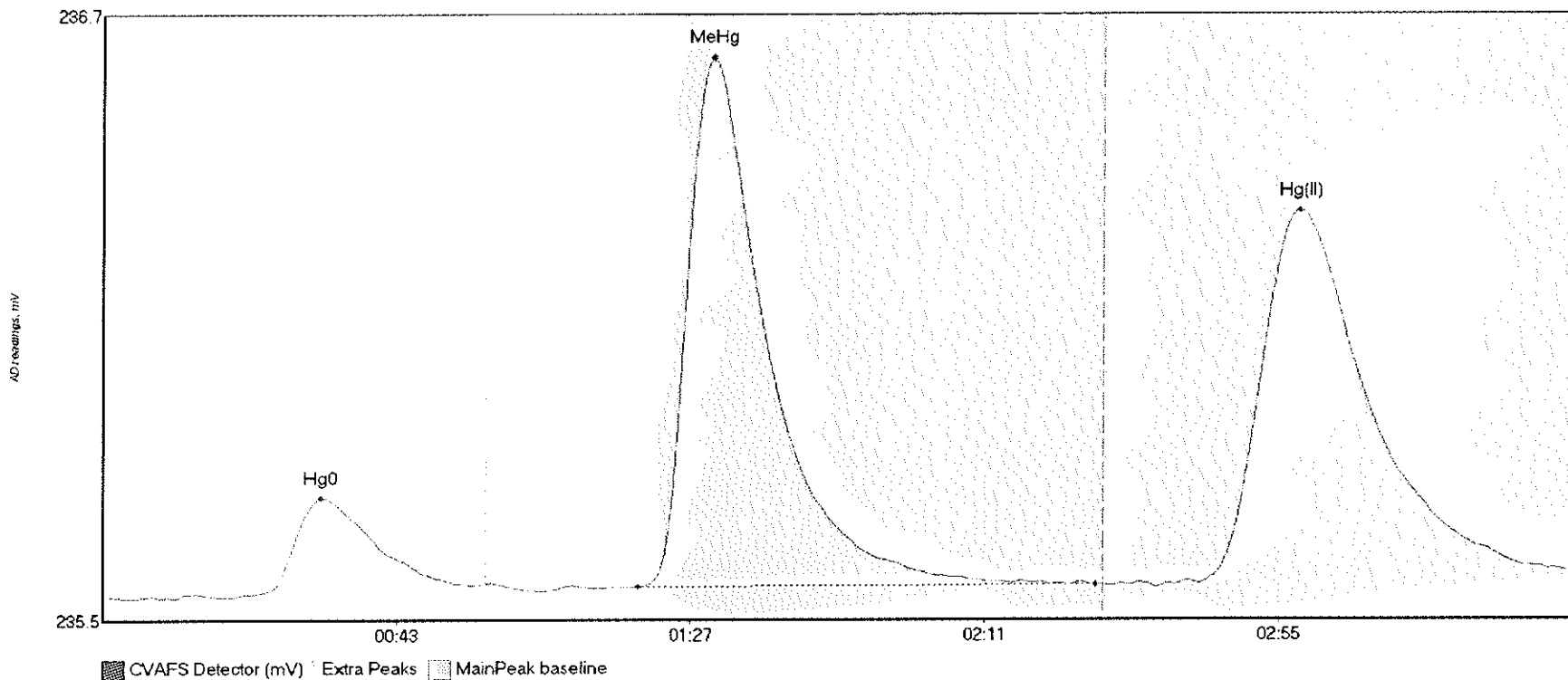
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1608980-06RE1 H	14.145	24.5	57.5	235.51	235.52	34.7	0.104	CT	235.5083	0.00	0.03	
1608980-06RE1 M	25.957	82.4	136.8	235.52	235.53	90.9	0.168	OK	235.5083	0.00	0.03	
1608980-06RE1 H	30.875	161.1	209.4	235.52	235.54	178.6	0.182	OK	235.5083	0.00	0.03	

#29: 1608981-12RE1



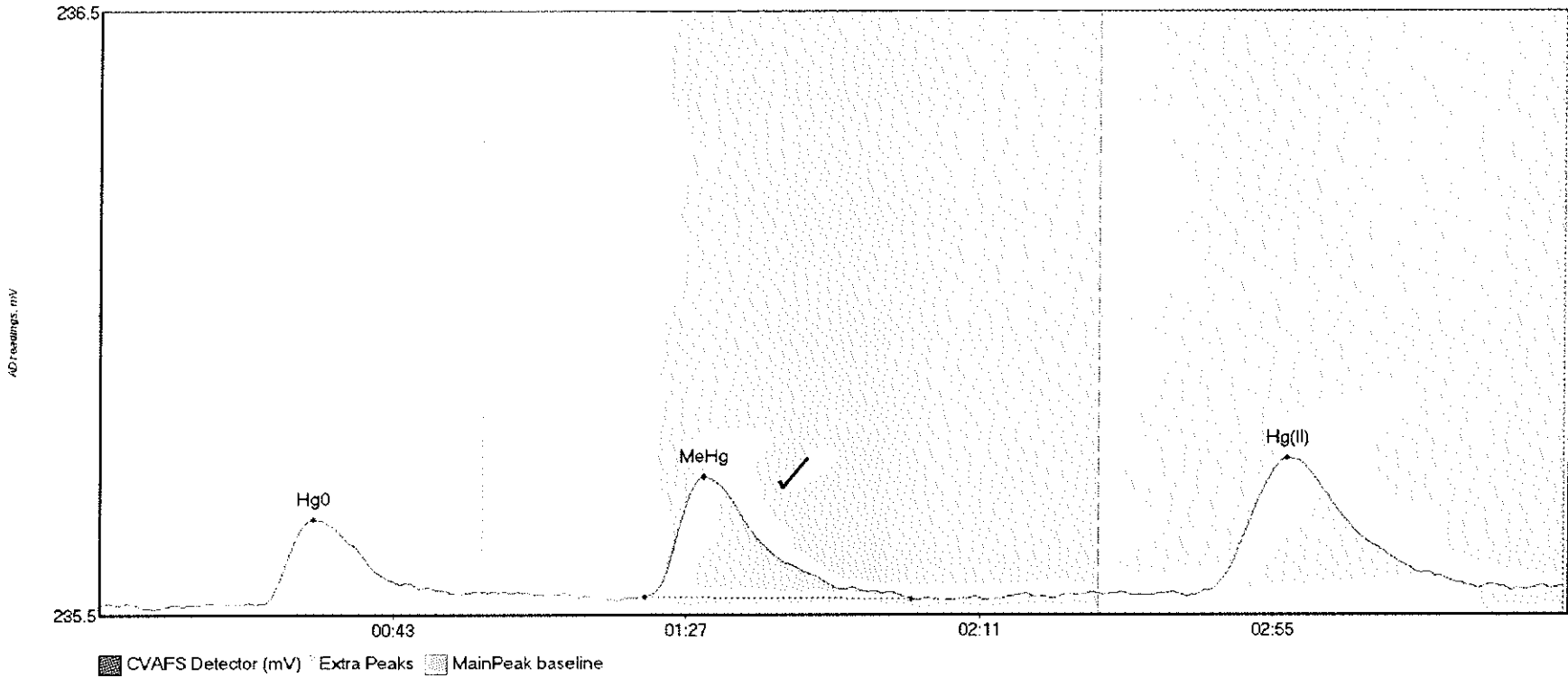
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-12RE1 H	14.938	24.1	53.3	235.51	235.52	33.5	0.118	OK	235.5063	0.00	0.03	
1608981-12RE1 M	12.571	83.0	113.5	235.52	235.52	91.6	0.099	OK	235.5063	0.00	0.03	
1608981-12RE1 H	35.534	164.4	218.4	235.53	235.53	179.1	0.193	OK	235.5063	0.00	0.03	

#30: 1608981-13RE1



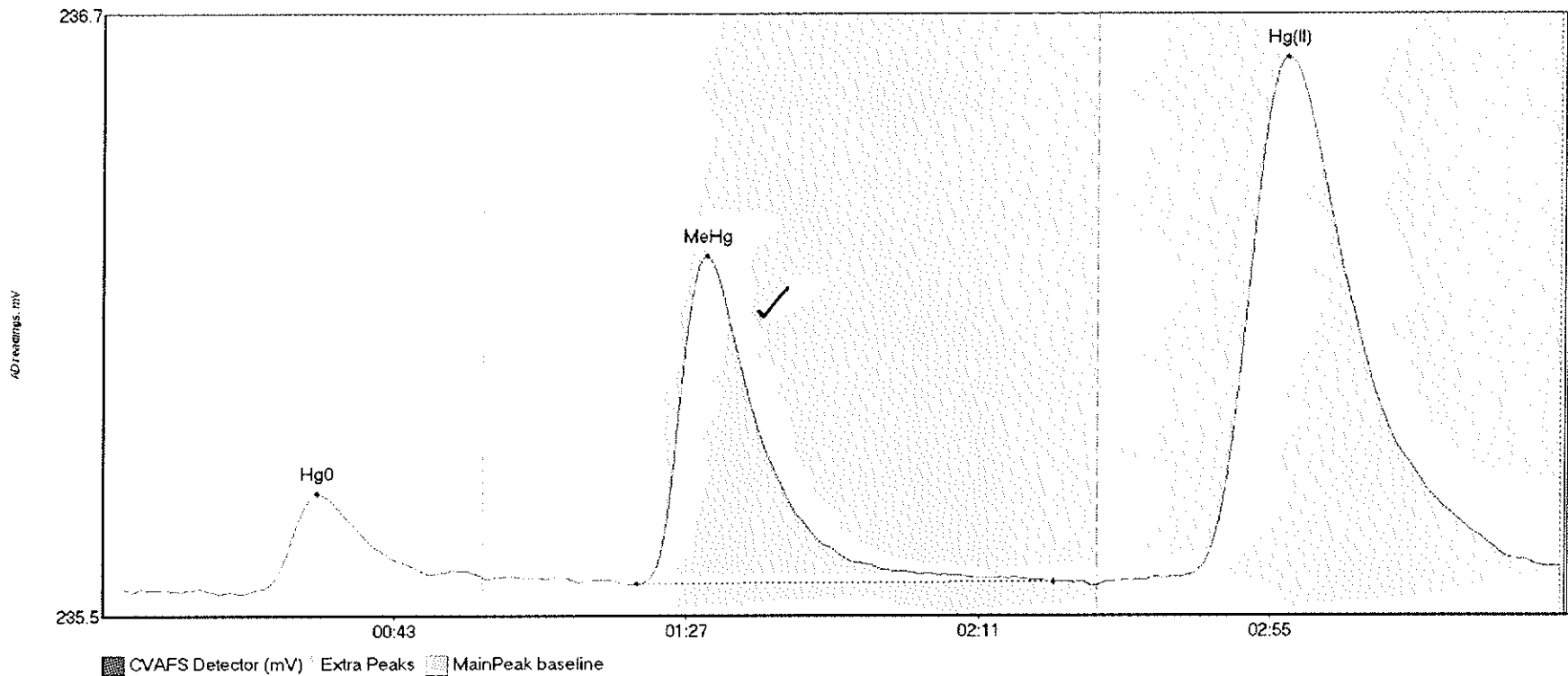
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-13RE1 H	25.285	22.5	55.5	235.51	235.53	32.9	0.200	OK	235.5094	0.00	0.05	
1608981-13RE1 M	151.743	80.1	148.7	235.53	235.53	91.4	1.091	OK	235.5094	0.00	0.05	
1608981-13RE1 H	139.863	164.5	219.8	235.54	235.56	179.2	0.769	CT	235.5094	0.00	0.05	

#31: 1608981-14RE1



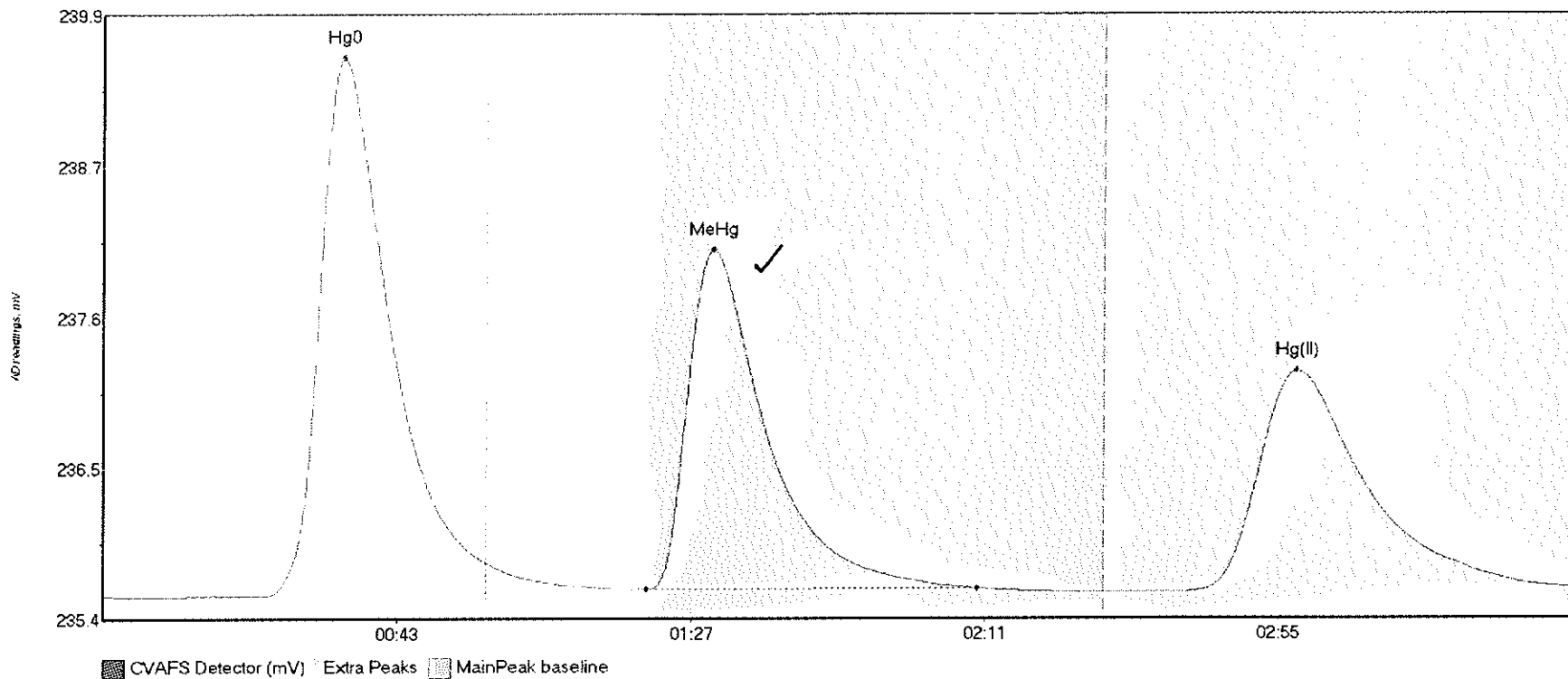
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-14RE1 H	16.580	24.6	54.4	235.52	235.54	32.1	0.138	OK	235.5222	0.00	0.03	
1608981-14RE1 M	28.510	81.9	121.7	235.53	235.53	90.8	0.199	OK	235.5222	0.00	0.03	
1608981-14RE1 H	39.538	164.4	212.0	235.54	235.55	178.2	0.227	OK	235.5222	0.00	0.03	

#32: 1608981-15RE1



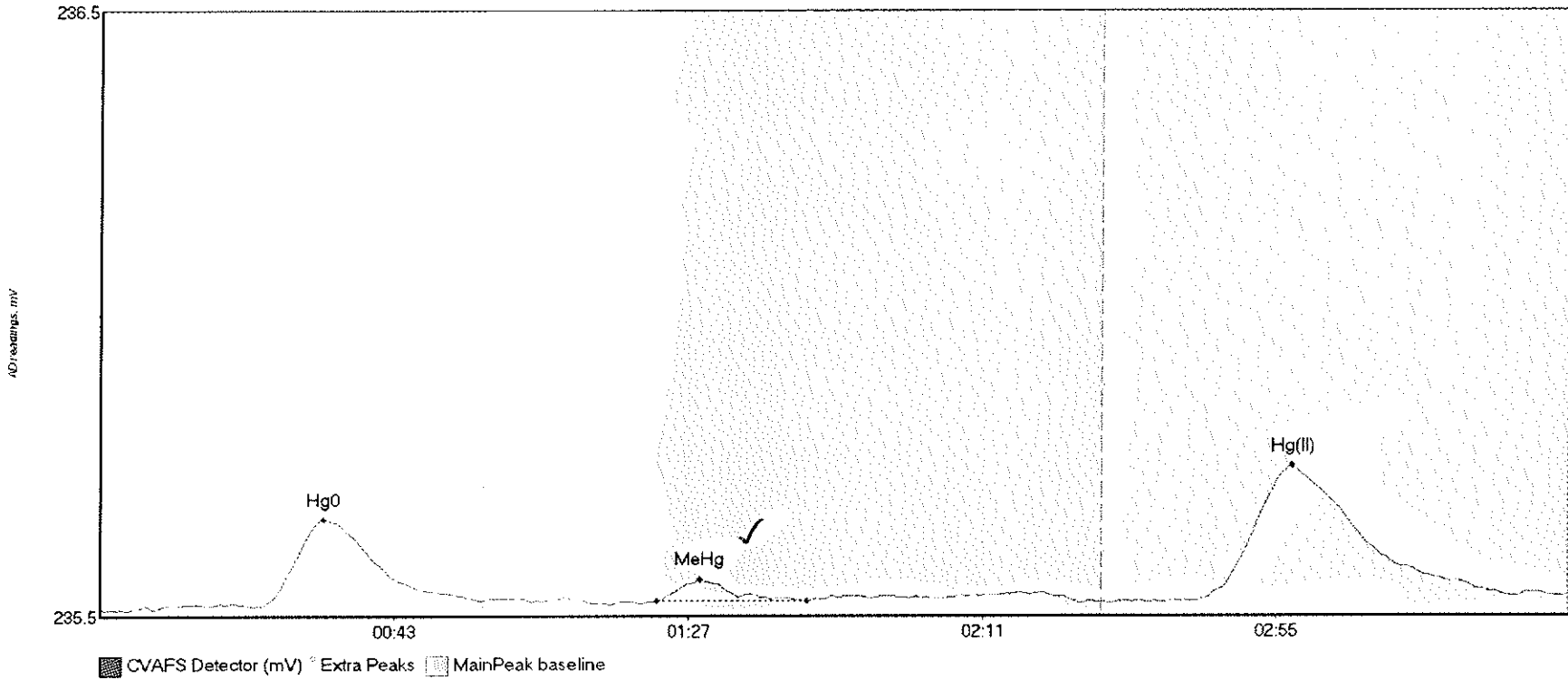
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-15RE1 H	23.027	24.5	57.5	235.52	235.54	32.5	0.190	CT	235.5194	0.00	0.05	
1608981-15RE1 M	92.365	80.6	143.3	235.53	235.53	91.1	0.654	OK	235.5194	0.00	0.05	
1608981-15RE1 H	192.476	152.1	219.6	235.54	235.56	178.6	1.044	OK	235.5194	0.00	0.05	

#33: SEQ-CCV2



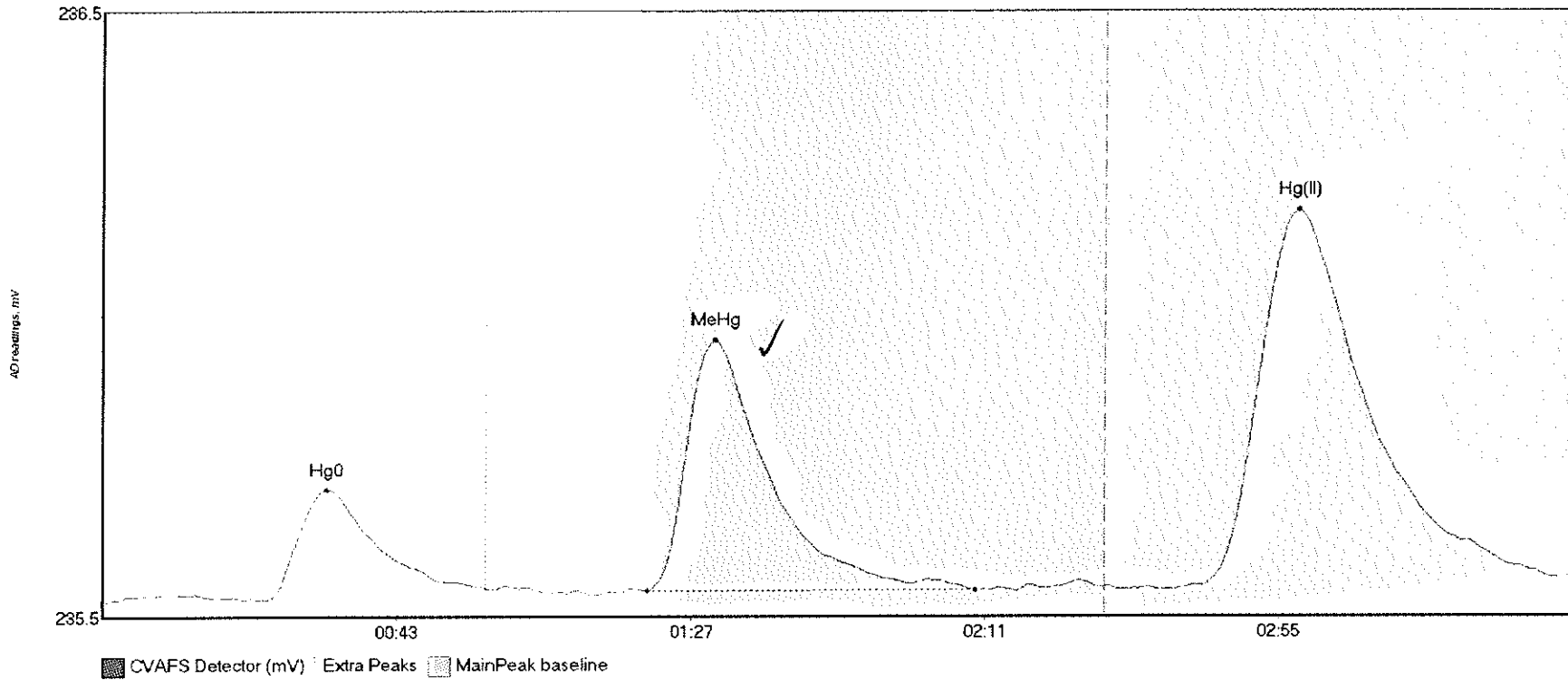
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV2 Hg0	459.101	24.2	57.5	235.52	235.76	36.0	4.014	CT	235.5212	0.00	0.06	
SEQ-CCV2 MeHg	345.877	81.3	130.9	235.57	235.58	91.3	2.533	OK	235.5212	0.00	0.06	
SEQ-CCV2 Hg(II)	302.930	159.8	219.8	235.55	235.58	178.8	1.653	CT	235.5212	0.00	0.06	

#34: SEQ-CCB2



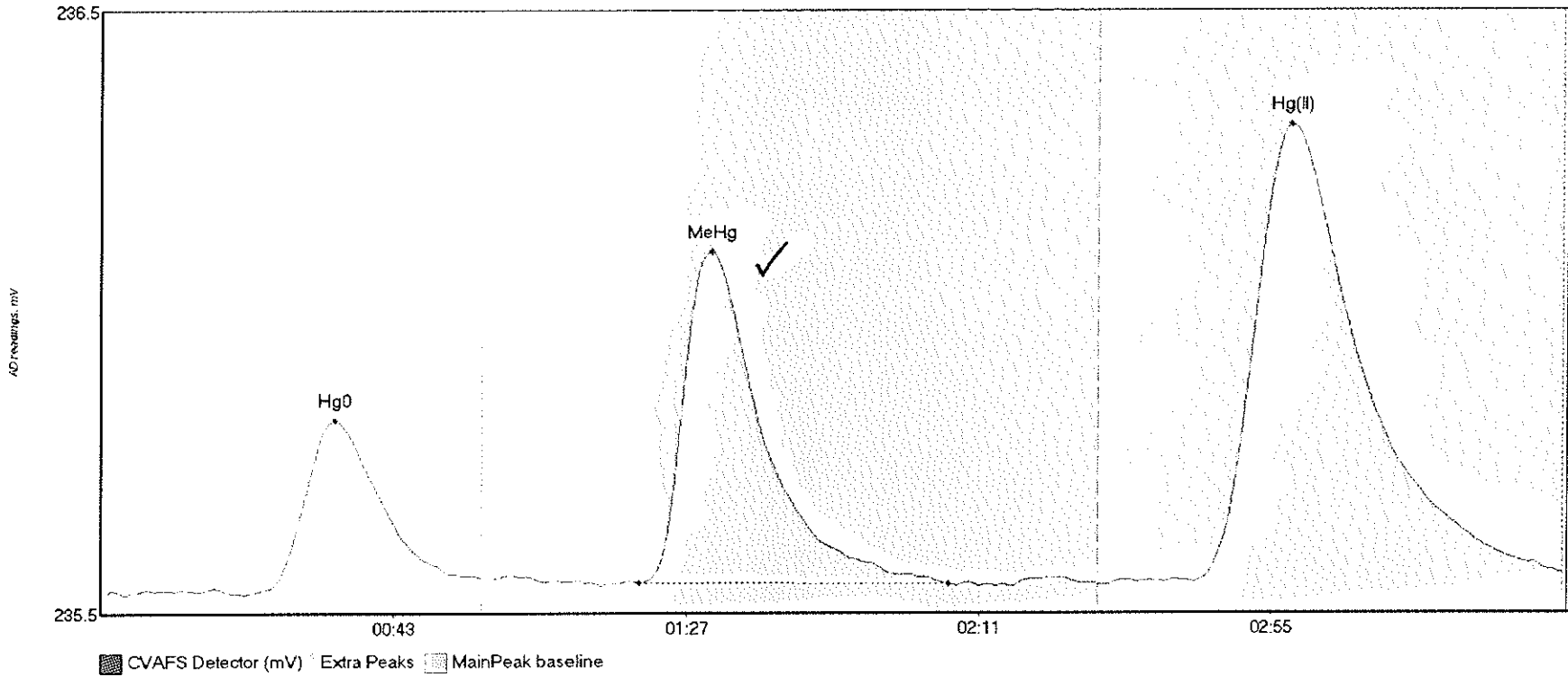
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB2 Hg0	19.638	8.2	57.2	235.51	235.52	33.5	0.148	OK	235.5078	0.00	0.02	
SEQ-CCB2 MeHg	3.349	83.3	105.9	235.52	235.52	89.7	0.036	OK	235.5078	0.00	0.02	
SEQ-CCB2 Hg(II)	39.525	164.3	212.2	235.52	235.53	178.4	0.225	OK	235.5078	0.00	0.02	

#35: 1608981-16RE1



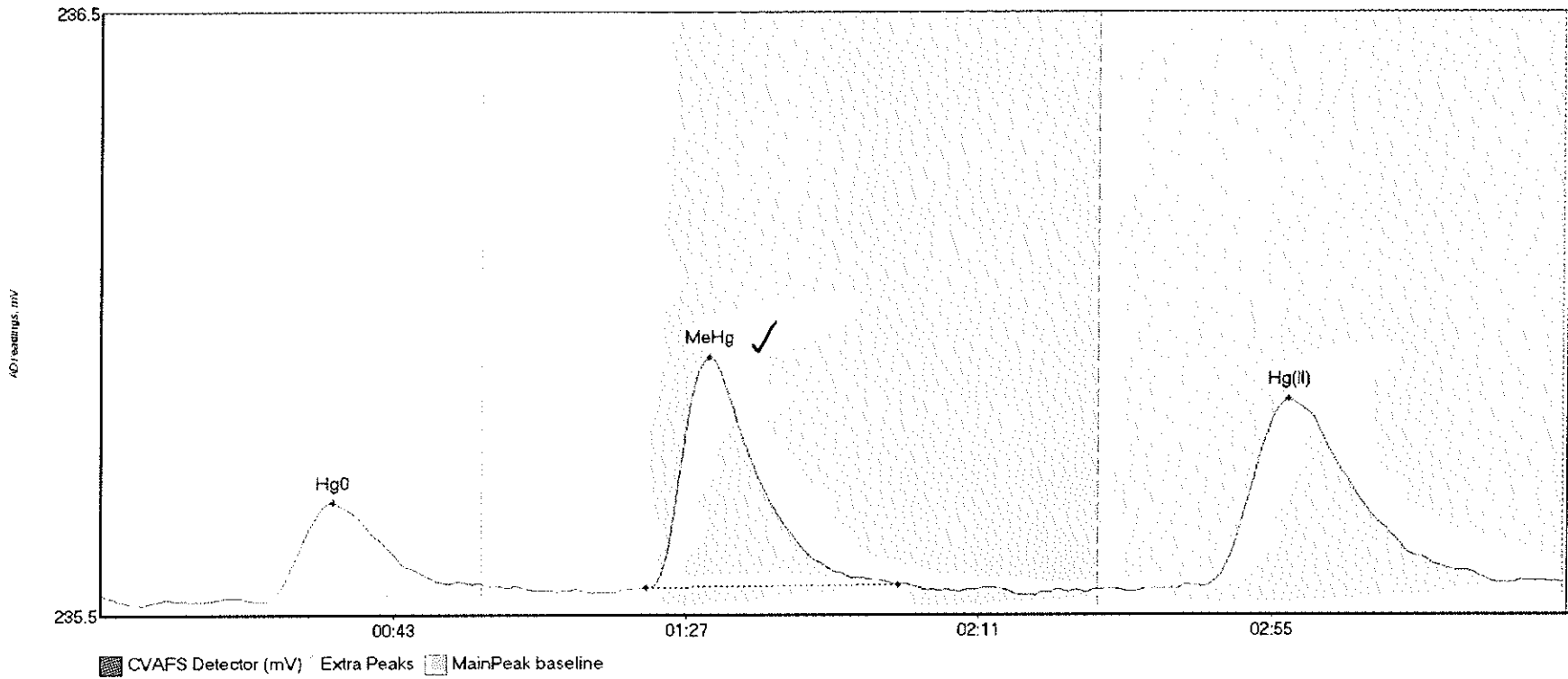
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-16RE1 H	23.052	24.1	57.5	235.52	235.53	33.6	0.183	CT	235.5131	0.00	0.04	
1608981-16RE1 M	59.045	81.4	130.6	235.53	235.53	91.6	0.415	OK	235.5131	0.00	0.04	
1608981-16RE1 H	113.131	164.4	217.4	235.54	235.55	179.0	0.620	OK	235.5131	0.00	0.04	

#36: 1608981-17RE1



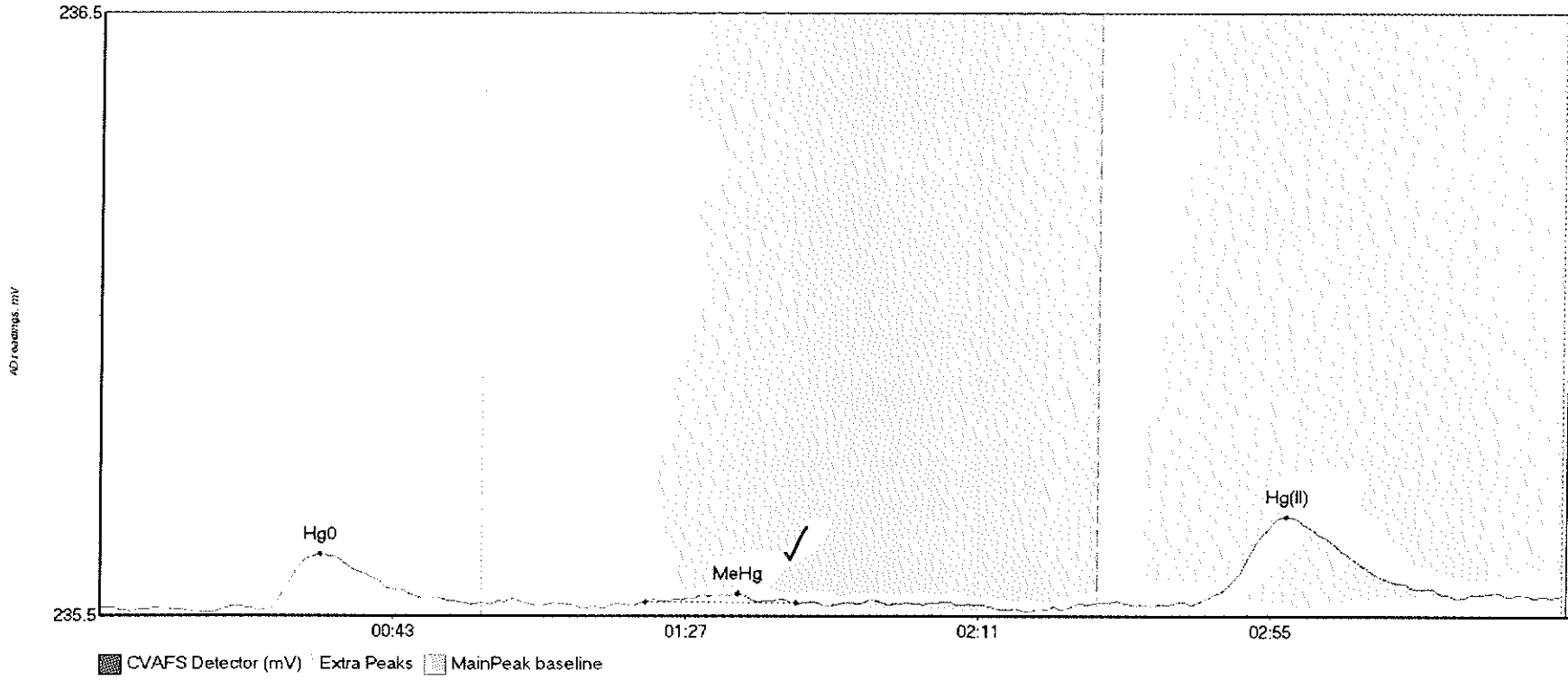
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1608981-17RE1 H	35.368	22.9	57.4	235.51	235.54	35.2	0.287	OK	235.5147	0.00	0.03	
1608981-17RE1 M	76.189	80.9	127.5	235.53	235.53	91.7	0.550	OK	235.5147	0.00	0.03	
1608981-17RE1 H	139.937	151.2	219.8	235.53	235.55	179.1	0.763	CT	235.5147	0.00	0.03	

#37: 1608981-18RE1



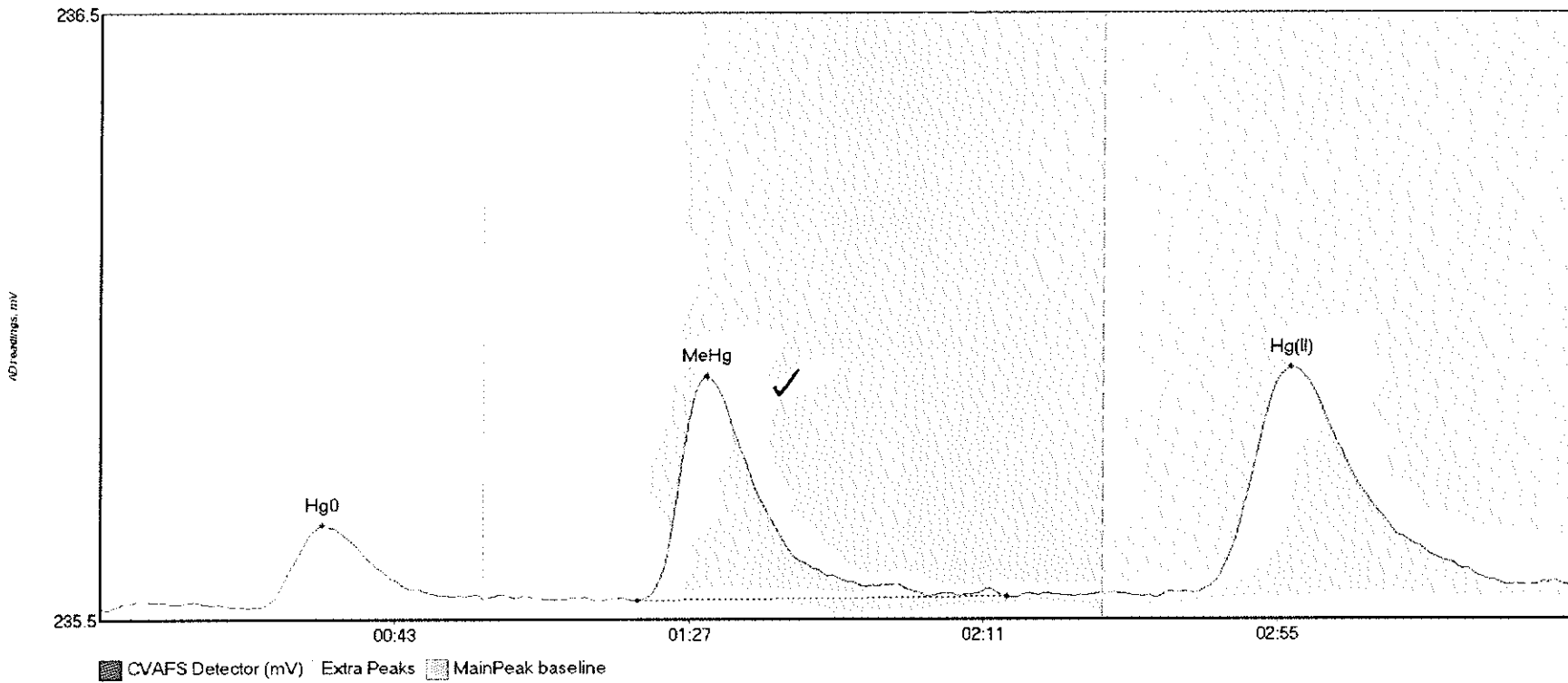
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608981-18RE1 H	20.955	24.7	57.5	235.51	235.54	34.8	0.166	CT	235.5183	0.00	0.02	
1608981-18RE1 M	49.449	82.0	120.0	235.53	235.53	91.5	0.383	OK	235.5183	0.00	0.02	
1608981-18RE1 H	54.698	166.0	211.1	235.53	235.54	178.6	0.310	OK	235.5183	0.00	0.02	

#38: 1609068-01RE1



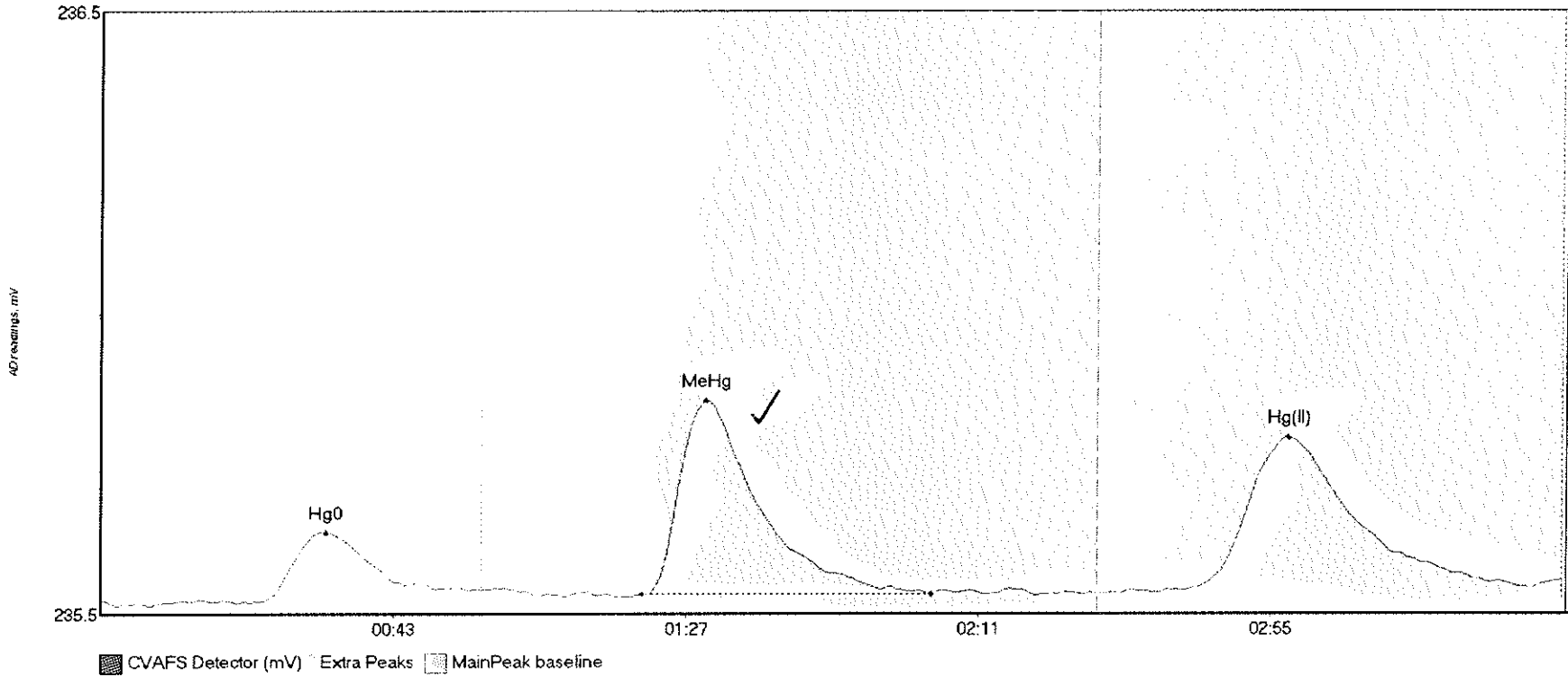
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1609068-01RE1 H	12.355	24.6	55.7	235.52	235.53	33.0	0.091	OK	235.5225	0.00	0.02	
1609068-01RE1 M	1.656	82.0	104.6	235.53	235.53	95.9	0.013	OK	235.5225	0.00	0.02	
1609068-01RE1 H	24.475	164.1	204.1	235.53	235.54	178.4	0.146	OK	235.5225	0.00	0.02	

#39: 1609068-02RE1



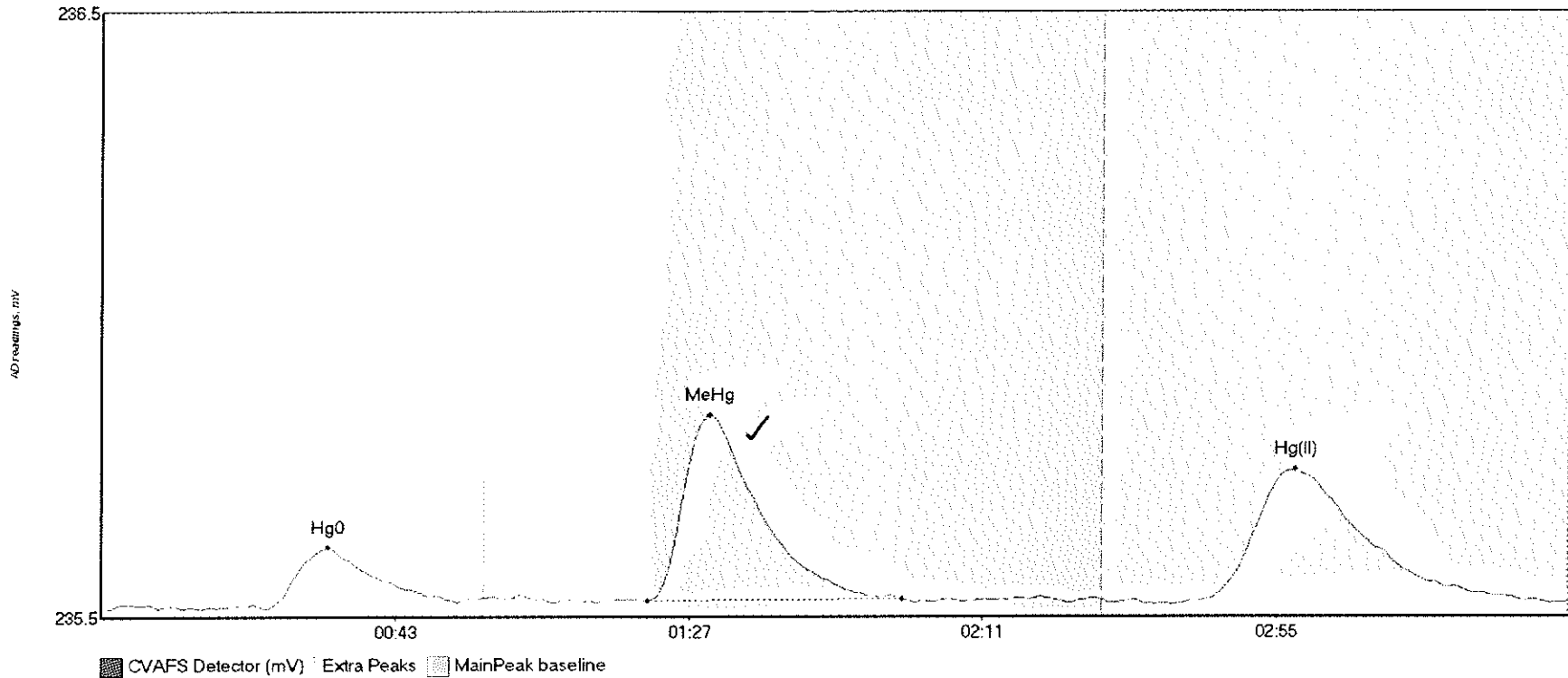
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1609068-02RE1 H	17.403	23.5	57.4	235.52	235.53	33.2	0.136	OK	235.5180	0.00	0.04	
1609068-02RE1 M	51.452	80.2	135.6	235.53	235.54	90.6	0.369	OK	235.5180	0.00	0.04	
1609068-02RE1 H	67.319	163.5	219.8	235.54	235.56	178.1	0.373	CT	235.5180	0.00	0.04	

#40: 1609068-03RE1



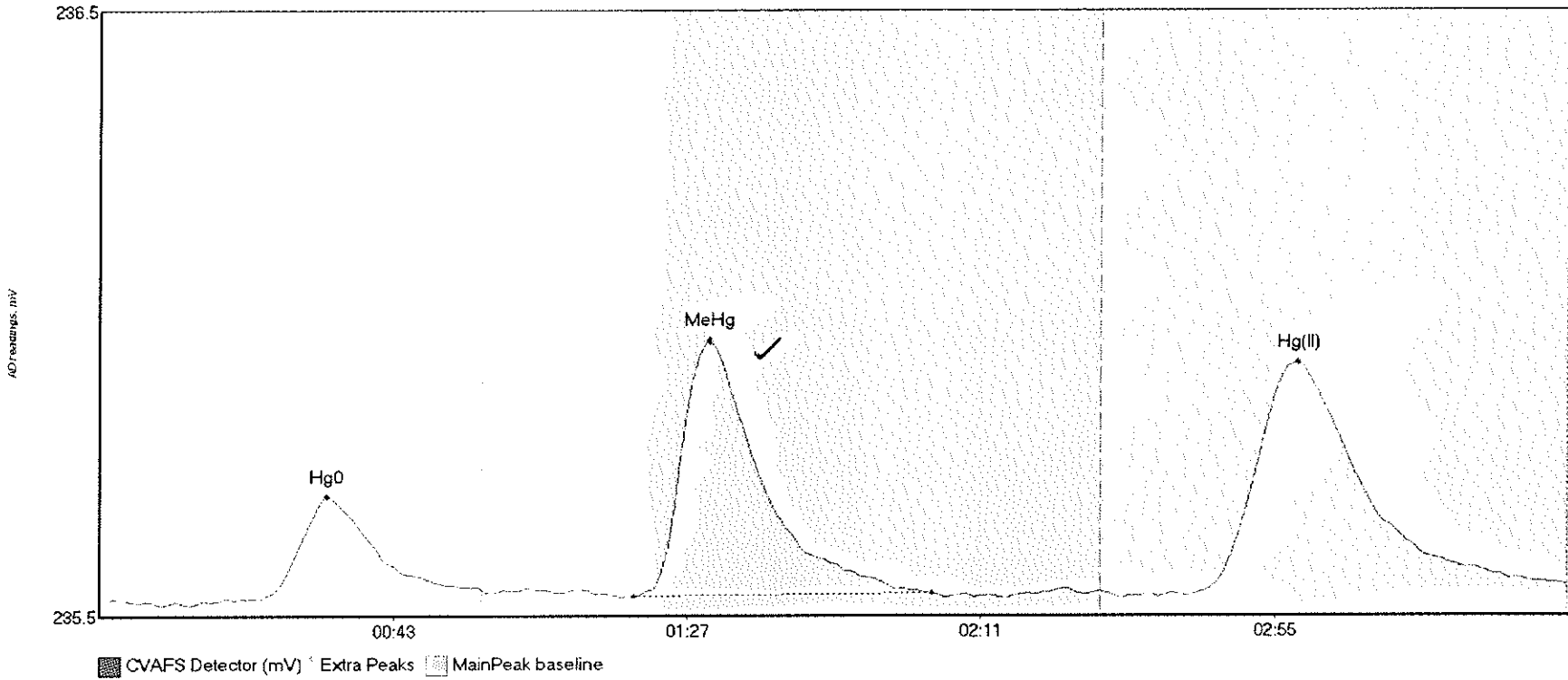
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1609068-03RE1 H	14.053	24.4	55.5	235.53	235.54	33.8	0.115	OK	235.5275	0.00	0.03	
1609068-03RE1 M	44.316	81.5	125.0	235.54	235.54	91.0	0.323	OK	235.5275	0.00	0.03	
1609068-03RE1 H	46.445	162.8	215.2	235.54	235.55	178.8	0.254	OK	235.5275	0.00	0.03	

#41: 1609068-04RE1



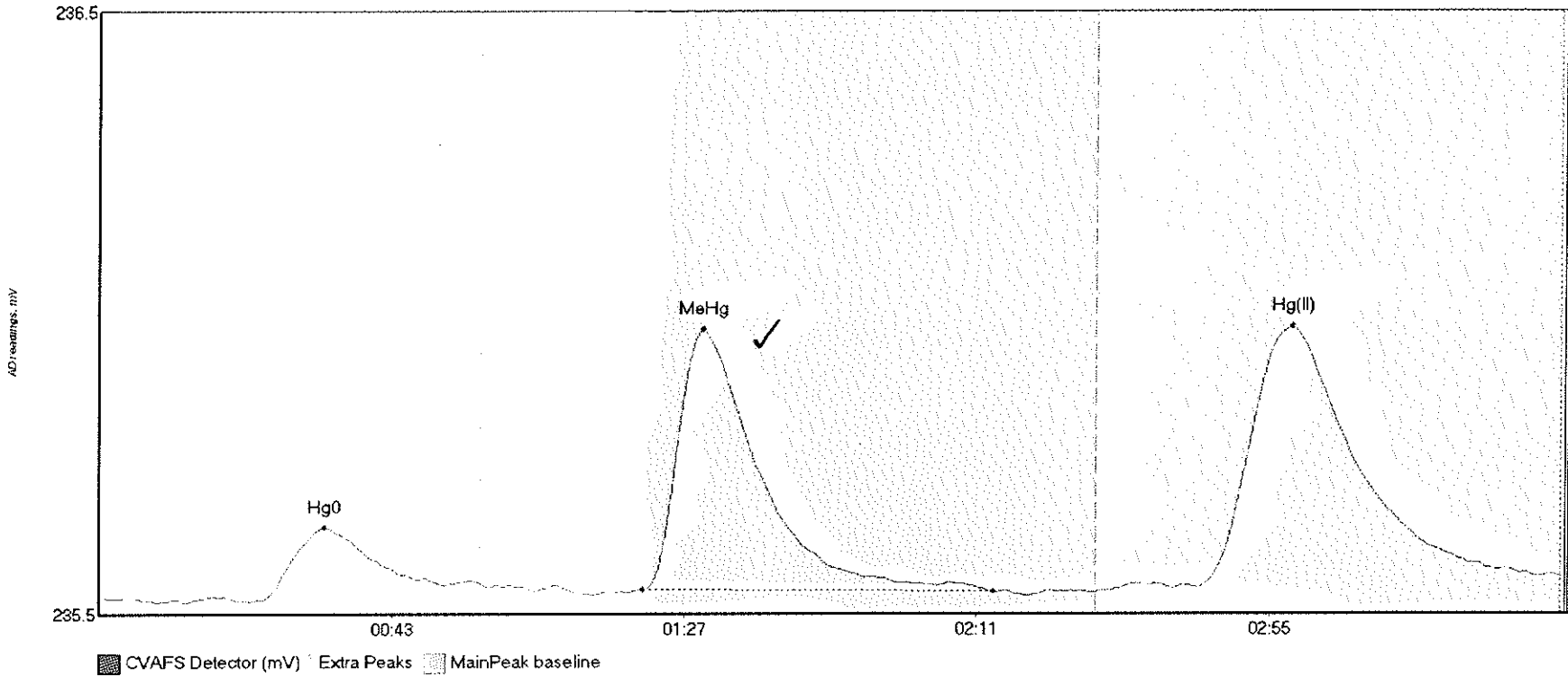
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1609068-04RE1	R 12.450	24.8	53.2	235.52	235.53	33.8	0.101	OK	235.5238	0.00	0.01	
1609068-04RE1	M 40.029	81.7	120.0	235.54	235.54	91.0	0.306	OK	235.5238	0.00	0.01	
1609068-04RE1	H 40.040	164.4	213.5	235.54	235.54	178.9	0.217	OK	235.5238	0.00	0.01	

#42: 1609068-05RE1



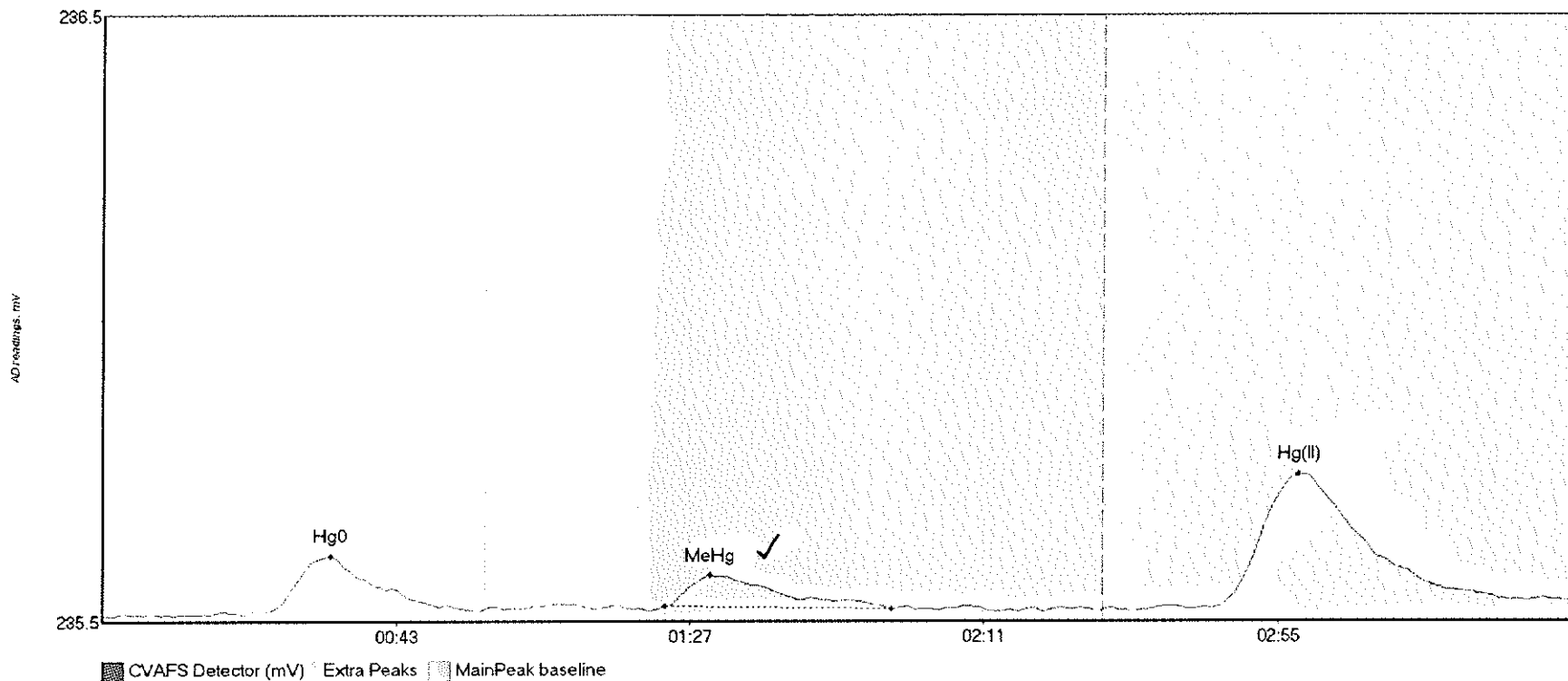
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1609068-05RE1 H	20.513	23.9	57.5	235.52	235.53	34.0	0.171	CT	235.5191	0.00	0.03	
1609068-05RE1 M	57.217	80.1	124.8	235.52	235.53	91.3	0.422	OK	235.5191	0.00	0.03	
1609068-05RE1 H	69.041	162.9	219.8	235.53	235.54	179.4	0.386	CT	235.5191	0.00	0.03	

#43: 1609068-06RE1



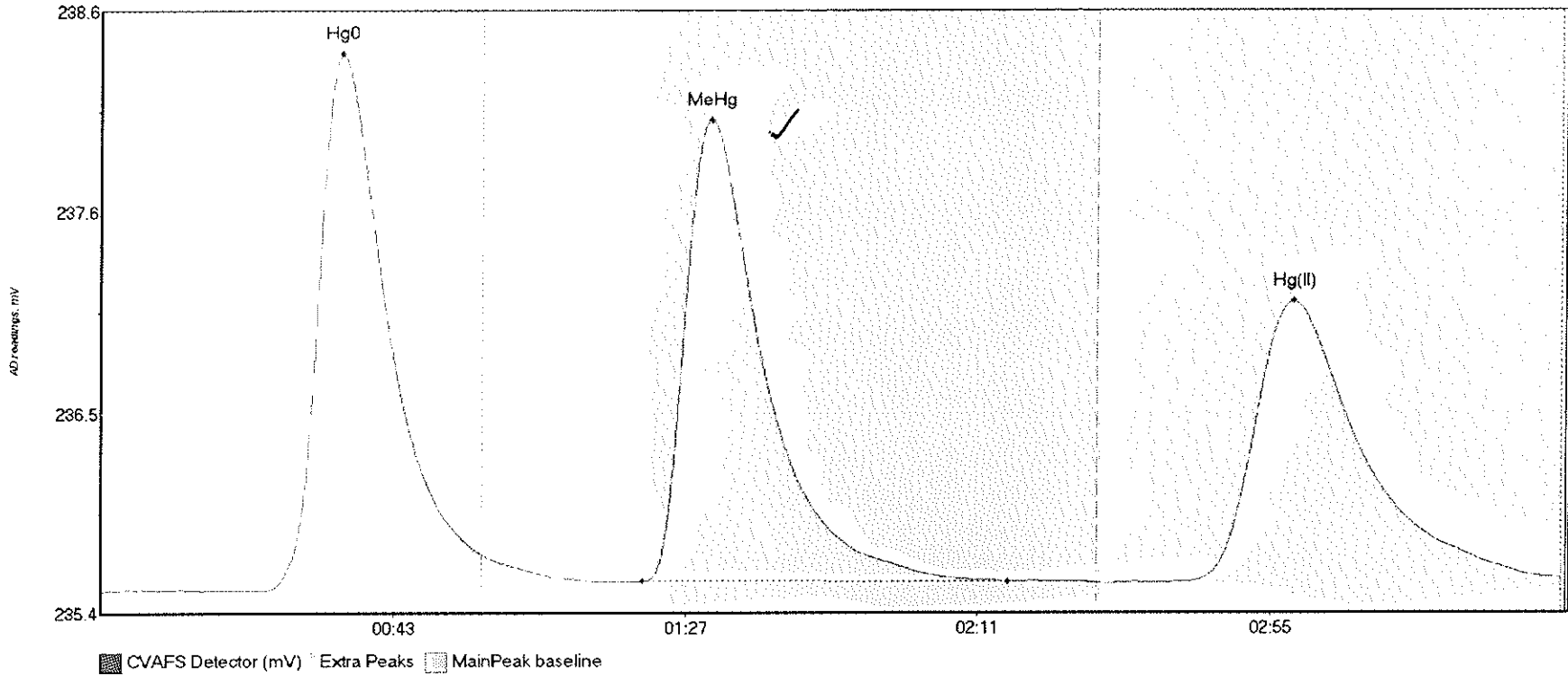
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1609068-06RE1 H	14.257	23.3	51.7	235.51	235.54	33.9	0.121	OK	235.5153	0.00	0.04	
1609068-06RE1 M	60.559	81.9	134.6	235.53	235.52	90.9	0.432	OK	235.5153	0.00	0.04	
1609068-06RE1 H	78.020	161.5	219.8	235.53	235.55	179.5	0.434	CT	235.5153	0.00	0.04	

#44: 1609068-07RE1



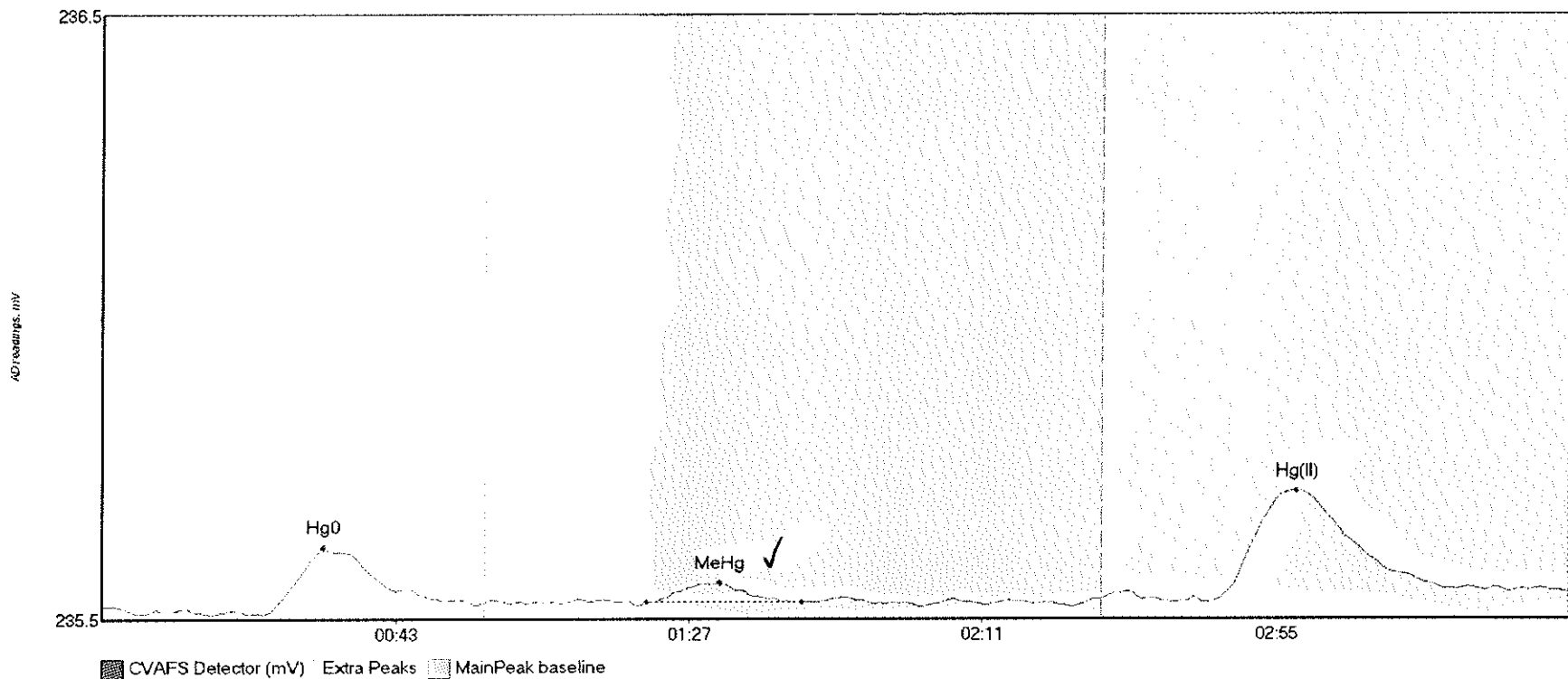
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1609068-07RE1	H 12.619	21.2	56.3	235.51	235.52	34.1	0.096	OK	235.5129	0.00	0.02	
1609068-07RE1	M 8.377	84.3	118.2	235.53	235.52	91.0	0.052	OK	235.5129	0.00	0.02	
1609068-07RE1	H 38.666	166.0	219.8	235.53	235.54	179.0	0.221	CT	235.5129	0.00	0.02	

#45: SEQ-CCV3



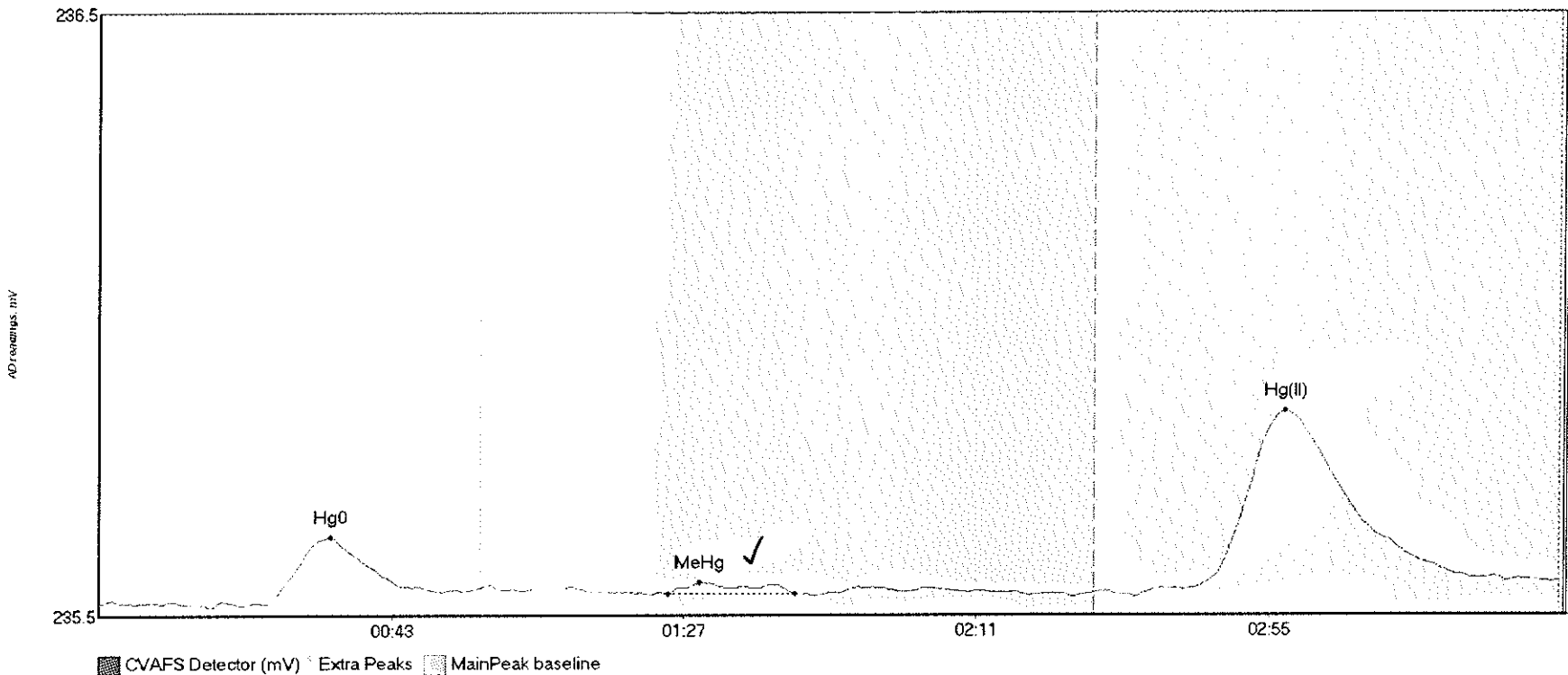
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV3 Hg0	326.874	24.7	57.5	235.50	235.69	36.2	2.911	CT	235.4987	0.00	0.07	
SEQ-CCV3 MeHg	344.866	81.6	136.6	235.55	235.55	91.7	2.506	OK	235.4987	0.00	0.07	
SEQ-CCV3 Hg(II)	279.219	160.5	219.7	235.55	235.57	179.4	1.527	OK	235.4987	0.00	0.07	

#46: SEQ-CCB3



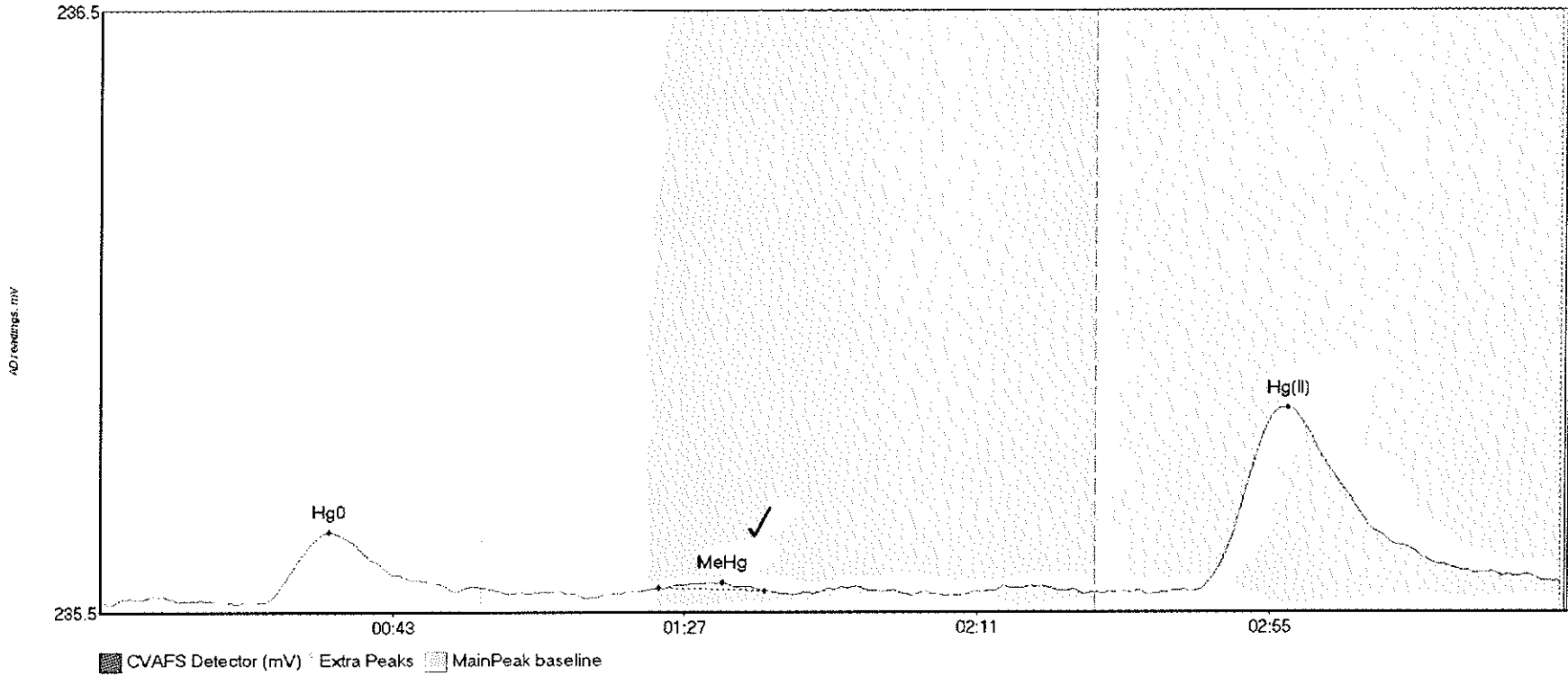
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	14.116	24.1	56.1	235.49	235.51	33.2	0.109	OK	235.5067	0.00	0.02	
SEQ-CCB3 MeHg	3.413	81.8	104.7	235.51	235.51	92.6	0.032	OK	235.5067	0.00	0.02	
SEQ-CCB3 Hg(II)	31.456	166.6	219.8	235.52	235.53	179.0	0.182	CT	235.5067	0.00	0.02	

#47: F609558-BLK1



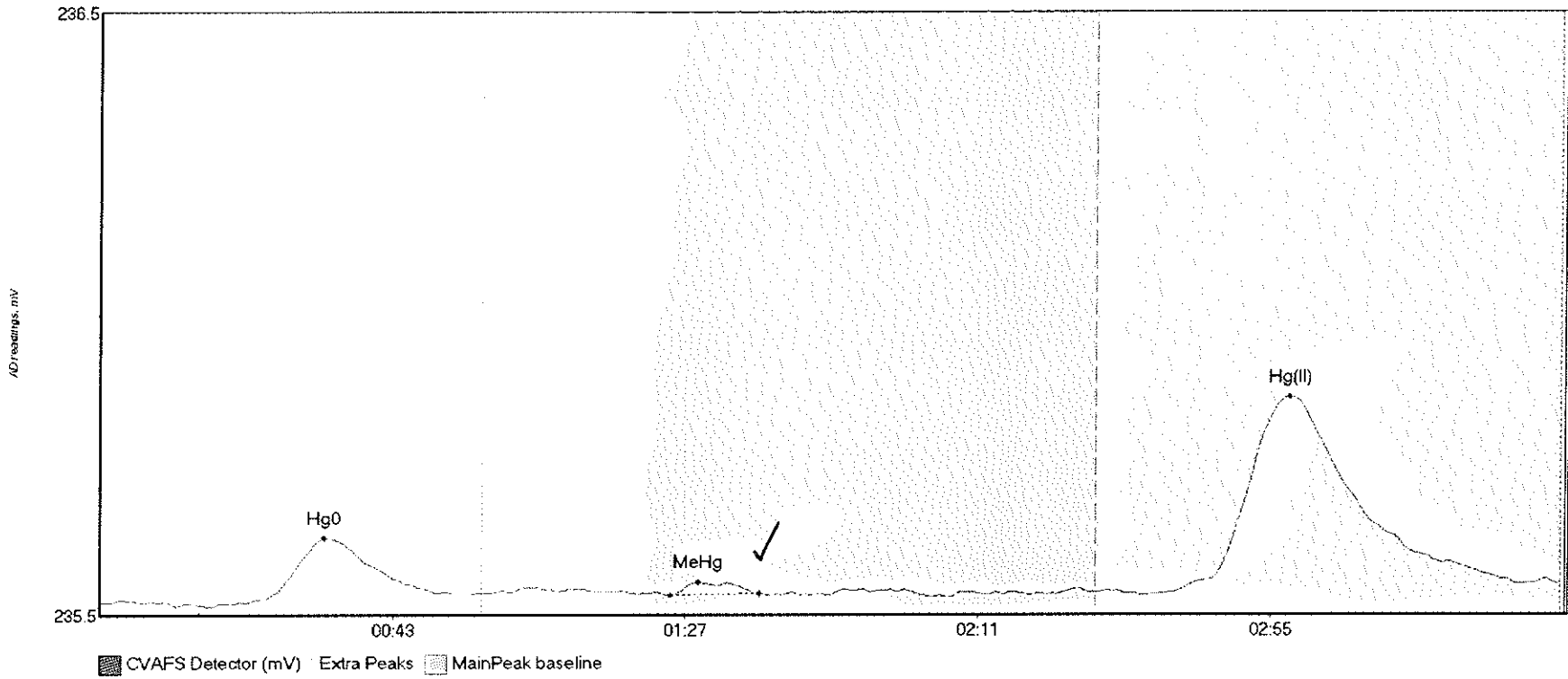
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609558-BLK1 Hg	12.077	25.2	51.5	235.50	235.52	34.8	0.112	OK	235.5017	0.00	0.04	
F609558-BLK1 Me	2.117	85.7	104.7	235.52	235.52	90.4	0.018	OK	235.5017	0.00	0.04	
F609558-BLK1 Hg	51.194	163.2	218.6	235.52	235.54	178.5	0.295	OK	235.5017	0.00	0.04	

#48: F609558-BLK2



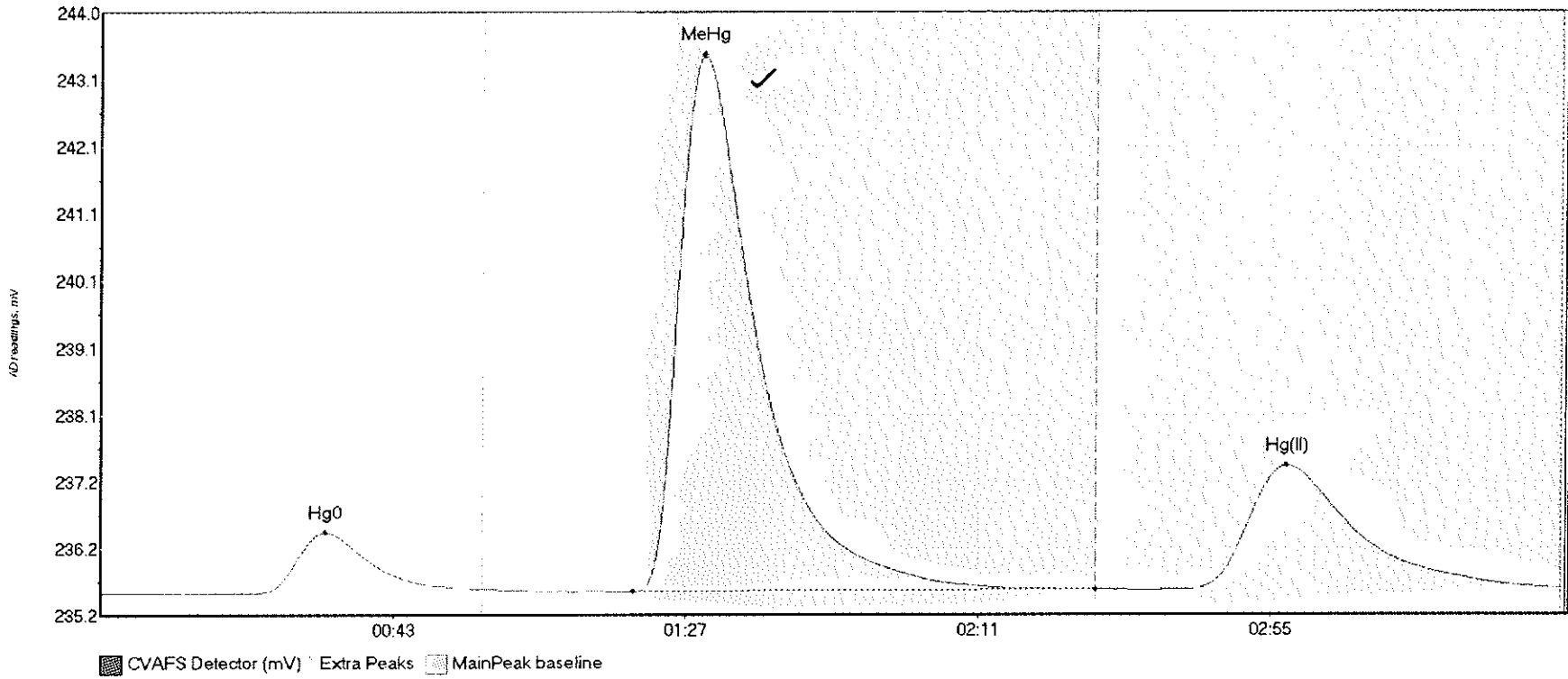
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609558-BLK2 Hg	14.884	24.5	53.3	235.50	235.52	34.4	0.118	OK	235.5058	0.00	0.03	
F609558-BLK2 Me	1.129	84.2	100.0	235.53	235.52	93.7	0.010	OK	235.5058	0.00	0.03	
F609558-BLK2 Hg	55.820	164.2	218.8	235.52	235.54	178.7	0.306	OK	235.5058	0.00	0.03	

#49: F609558-BLK3



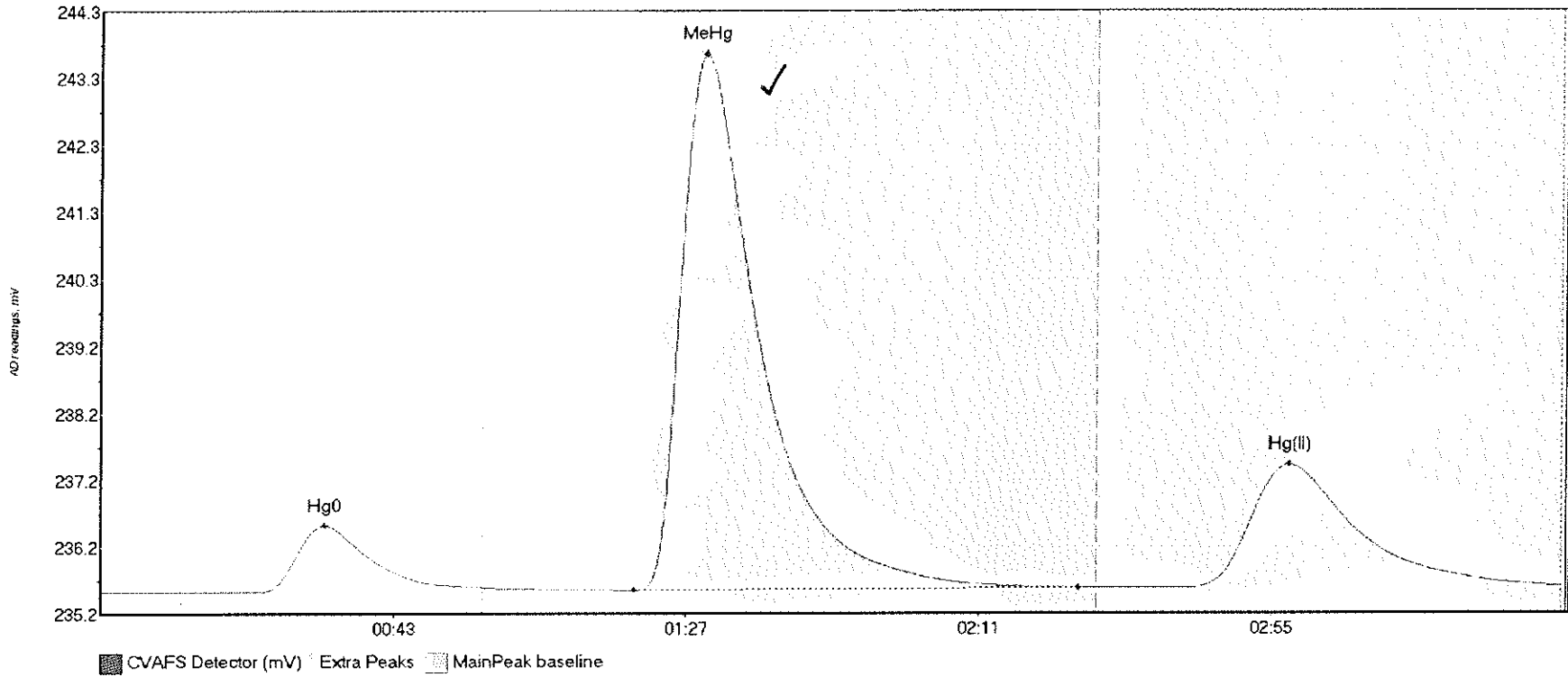
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609558-BLK3 Hg	13.234	22.3	55.3	235.50	235.51	33.7	0.107	OK	235.5005	0.00	0.03	
F609558-BLK3 Me	1.737	85.9	99.1	235.51	235.52	90.0	0.021	OK	235.5005	0.00	0.03	
F609558-BLK3 Hg	59.017	161.6	214.1	235.52	235.53	178.9	0.325	OK	235.5005	0.00	0.03	

#50: F609558-BS1



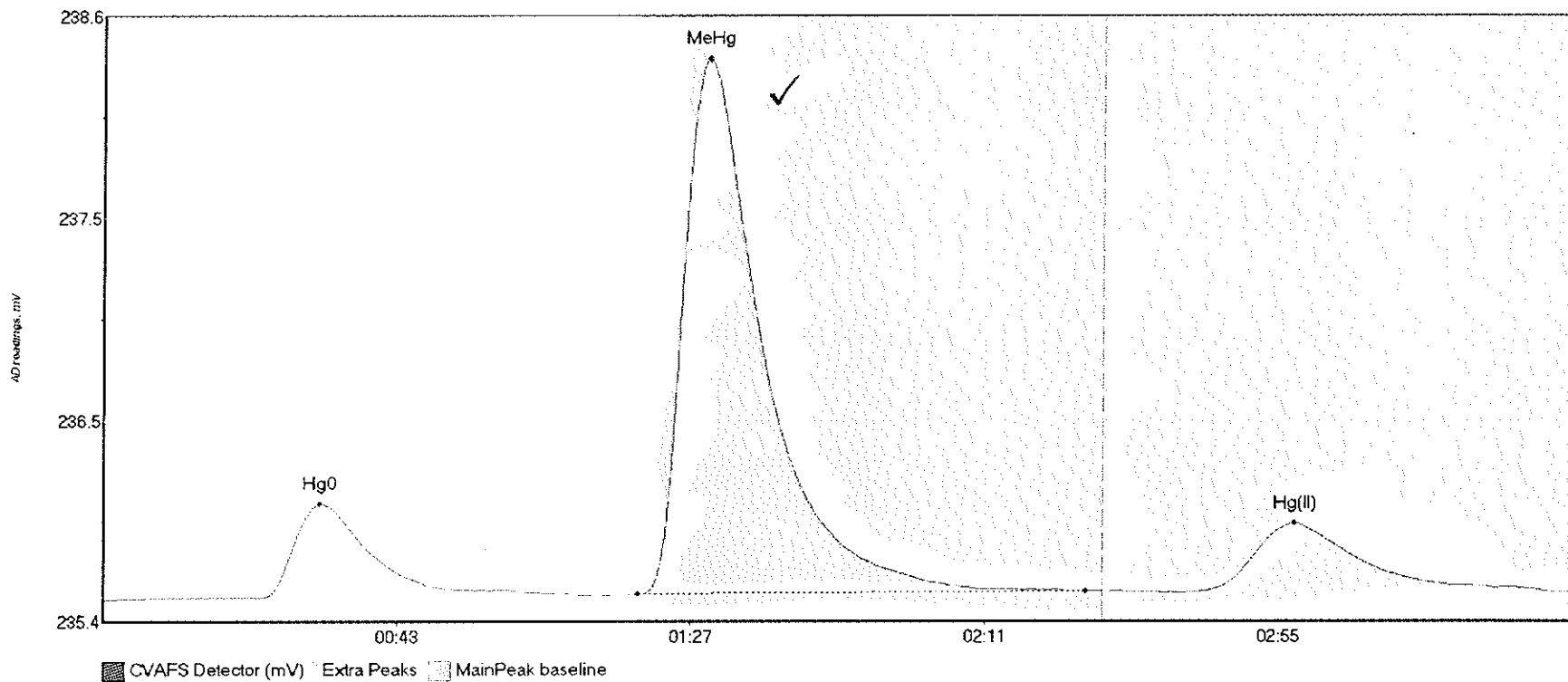
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
F609558-BS1 Hg0	105.762	19.7	57.5	235.51	235.56	33.8	0.894	CT	235.5023	0.00	0.08	
F609558-BS1 MeH	1091.585	80.1	149.9	235.52	235.56	90.8	7.885	OK	235.5023	0.00	0.08	
F609558-BS1 Hg(	334.836	162.5	219.8	235.56	235.58	178.5	1.827	CT	235.5023	0.00	0.08	

#51: F609558-BSD1



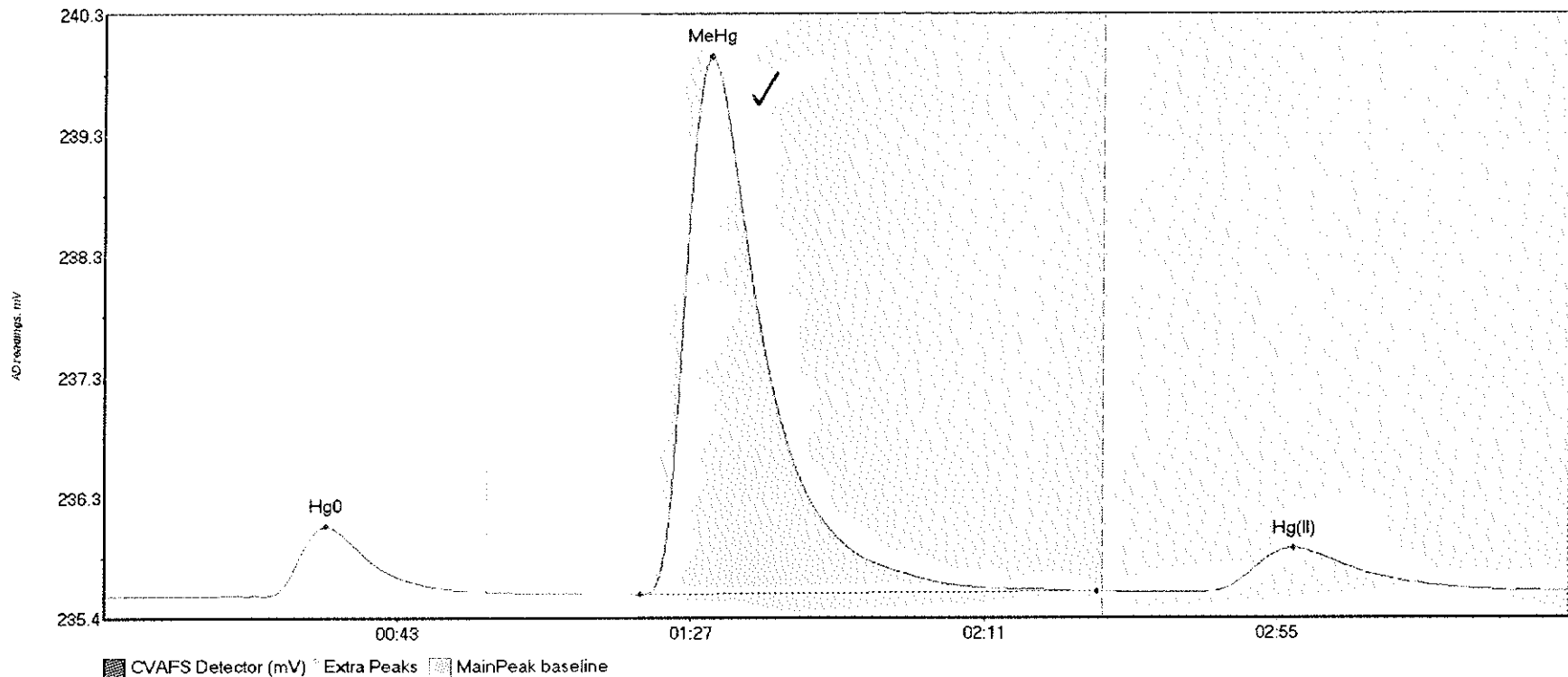
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
F609558-BSD1 Hg	119.171	24.1	57.5	235.51	235.58	33.7	1.007	CT	235.5131	0.00	0.08	
F609558-BSD1 Me	1121.183	80.1	147.2	235.53	235.57	91.0	8.142	OK	235.5131	0.00	0.08	
F609558-BSD1 Hg	341.226	163.7	219.8	235.57	235.59	178.7	1.875	CT	235.5131	0.00	0.08	

#52: 1608793-07



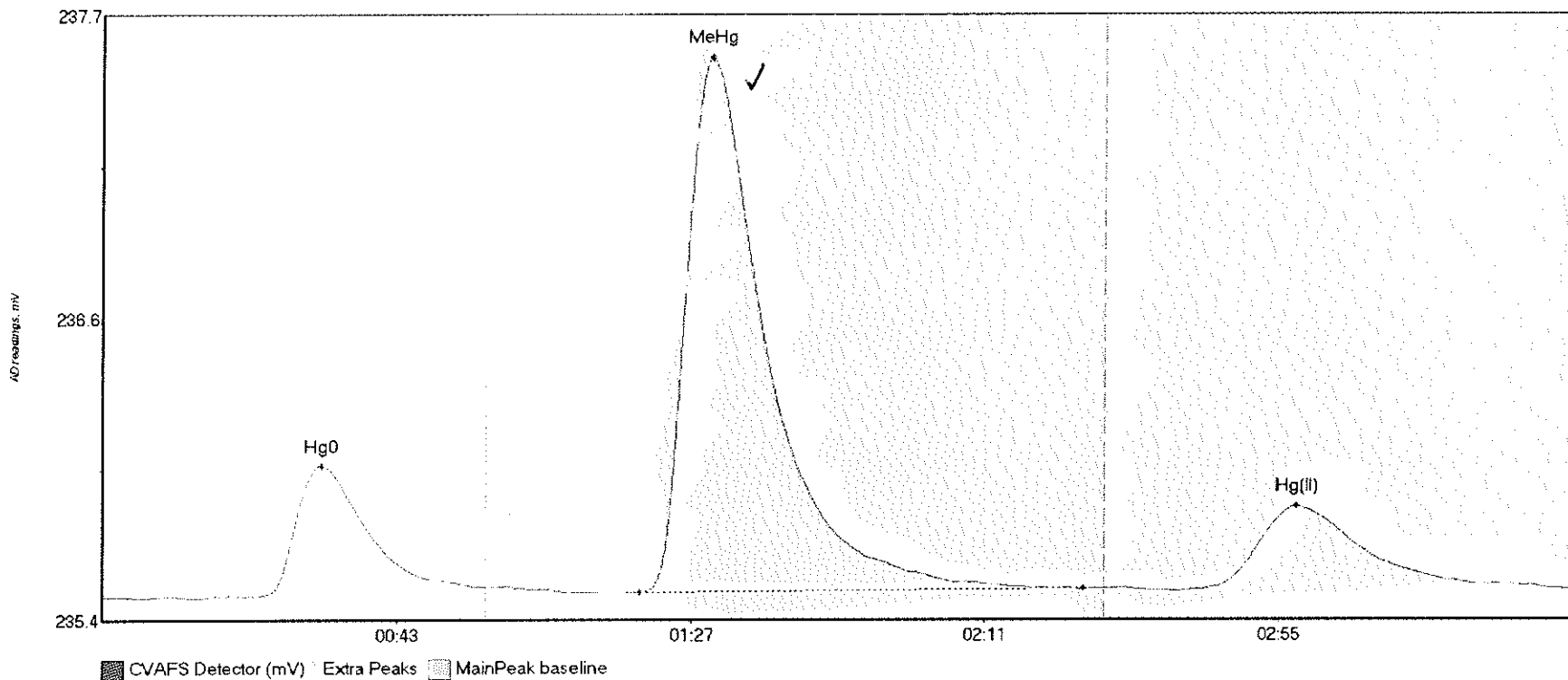
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-07 Hg0	56.162	2.5	55.9	235.53	235.57	32.6	0.496	OK	235.5214	0.00	0.04	
1608793-07 MeHg	386.698	80.1	147.3	235.55	235.56	90.7	2.794	OK	235.5214	0.00	0.04	
1608793-07 Hg(I)	64.490	164.0	217.6	235.56	235.56	178.5	0.357	OK	235.5214	0.00	0.04	

#53: 1608793-08



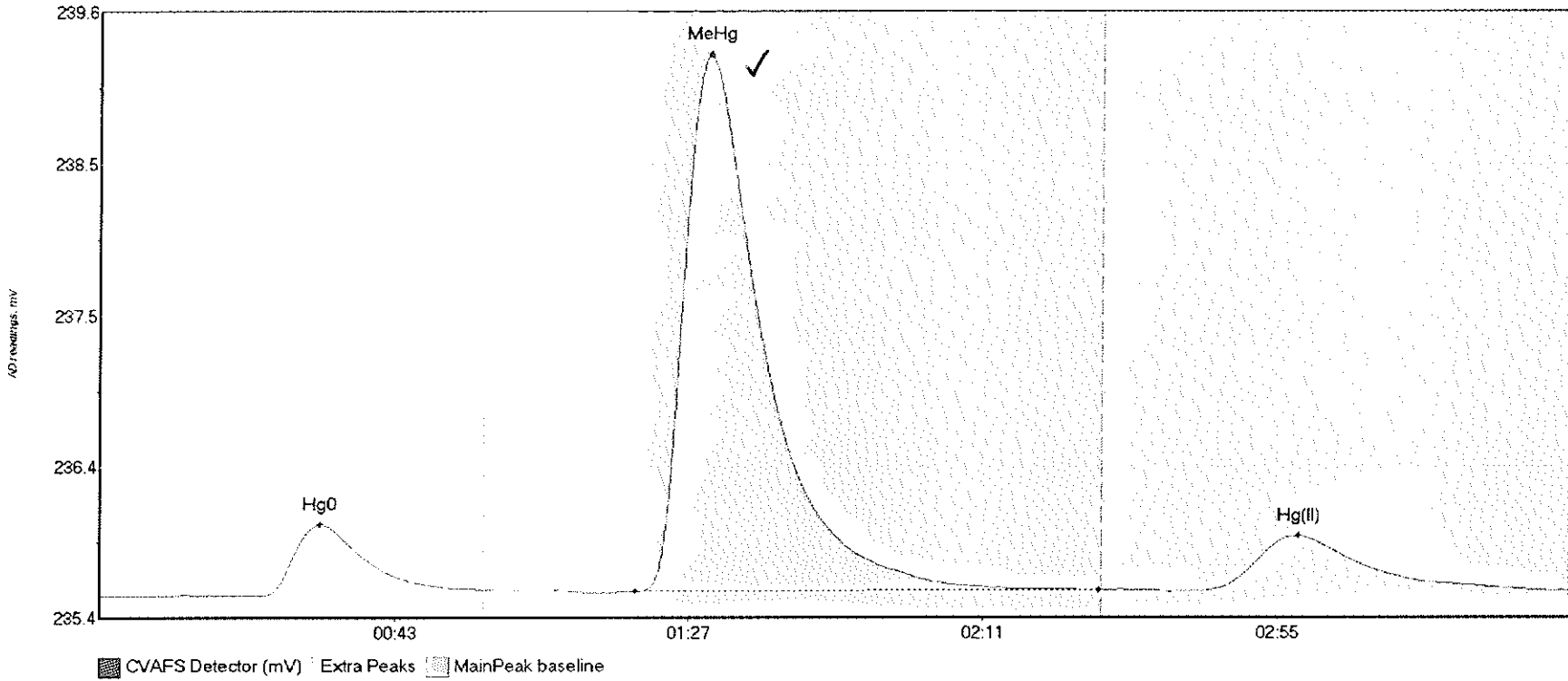
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1608793-08 Hg0	66.605	24.0	57.5	235.53	235.57	33.3	0.566	CT	235.5307	0.00	0.04	
1608793-08 MeHg	608.810	80.5	149.0	235.54	235.57	91.0	4.393	OK	235.5307	0.00	0.04	
1608793-08 Hg(II)	63.288	165.1	211.4	235.56	235.57	178.6	0.358	OK	235.5307	0.00	0.04	

#54: 1608793-09



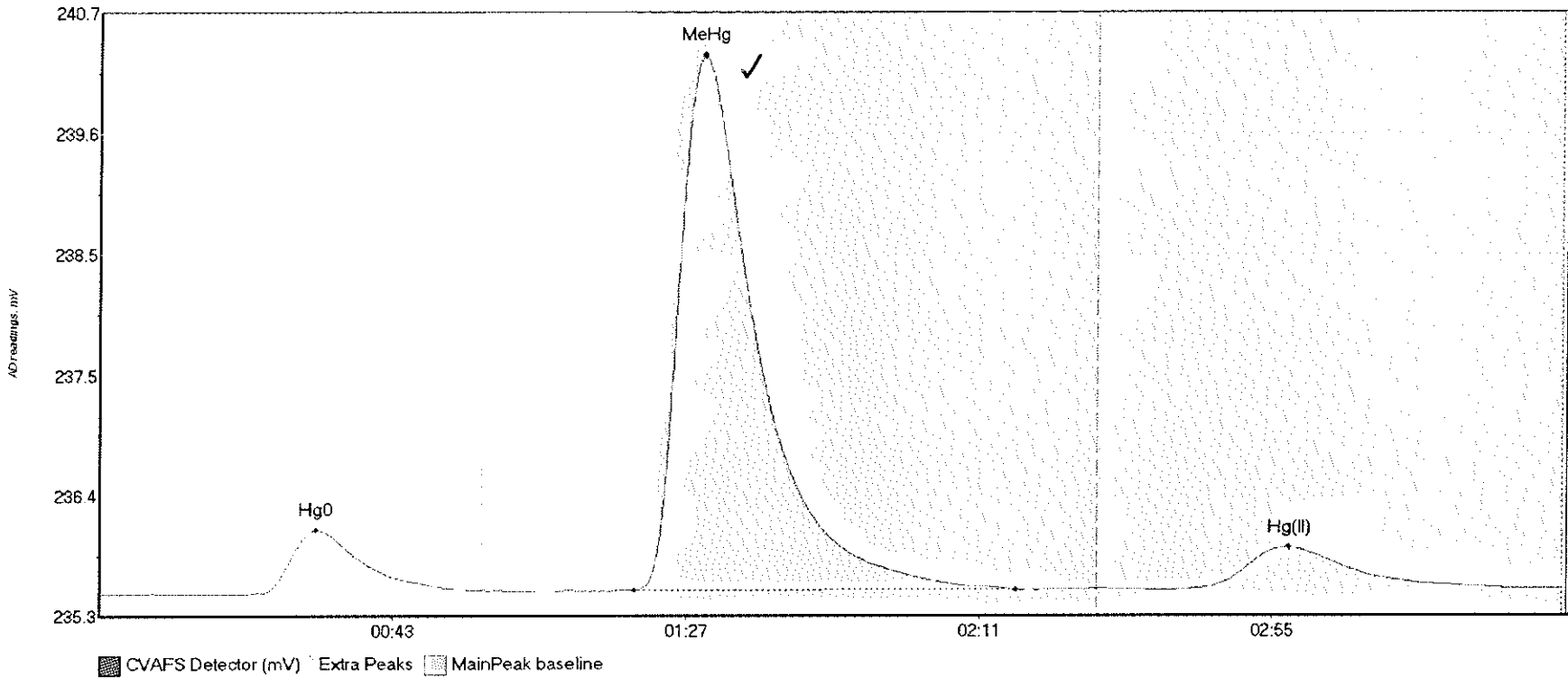
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-09 Hg0	56.590	22.4	57.5	235.53	235.56	32.7	0.485	CT	235.5269	0.00	0.03	
1608793-09 MeHg	275.975	80.3	146.7	235.54	235.55	91.0	1.974	OK	235.5269	0.00	0.03	
1608793-09 Hg(I)	54.485	164.7	216.7	235.56	235.56	178.7	0.304	OK	235.5269	0.00	0.03	

#55: 1608793-10



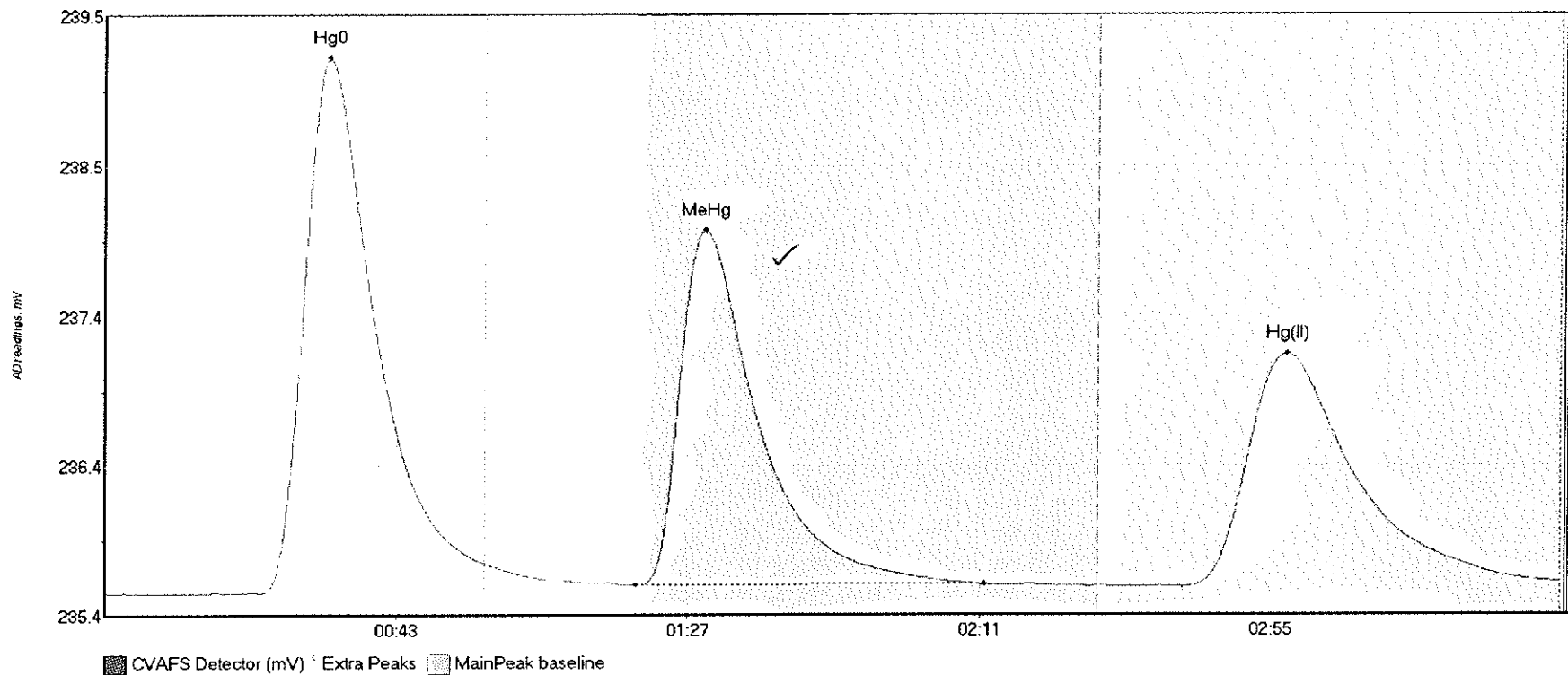
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-10 Hg0	57.130	24.3	57.0	235.54	235.58	32.8	0.497	OK	235.5388	0.00	0.04	
1608793-10 MeHg	512.840	80.1	149.5	235.57	235.58	91.1	3.732	OK	235.5388	0.00	0.04	
1608793-10 Hg(I	68.440	165.1	214.7	235.57	235.58	179.2	0.381	OK	235.5388	0.00	0.04	

#56: 1608793-11



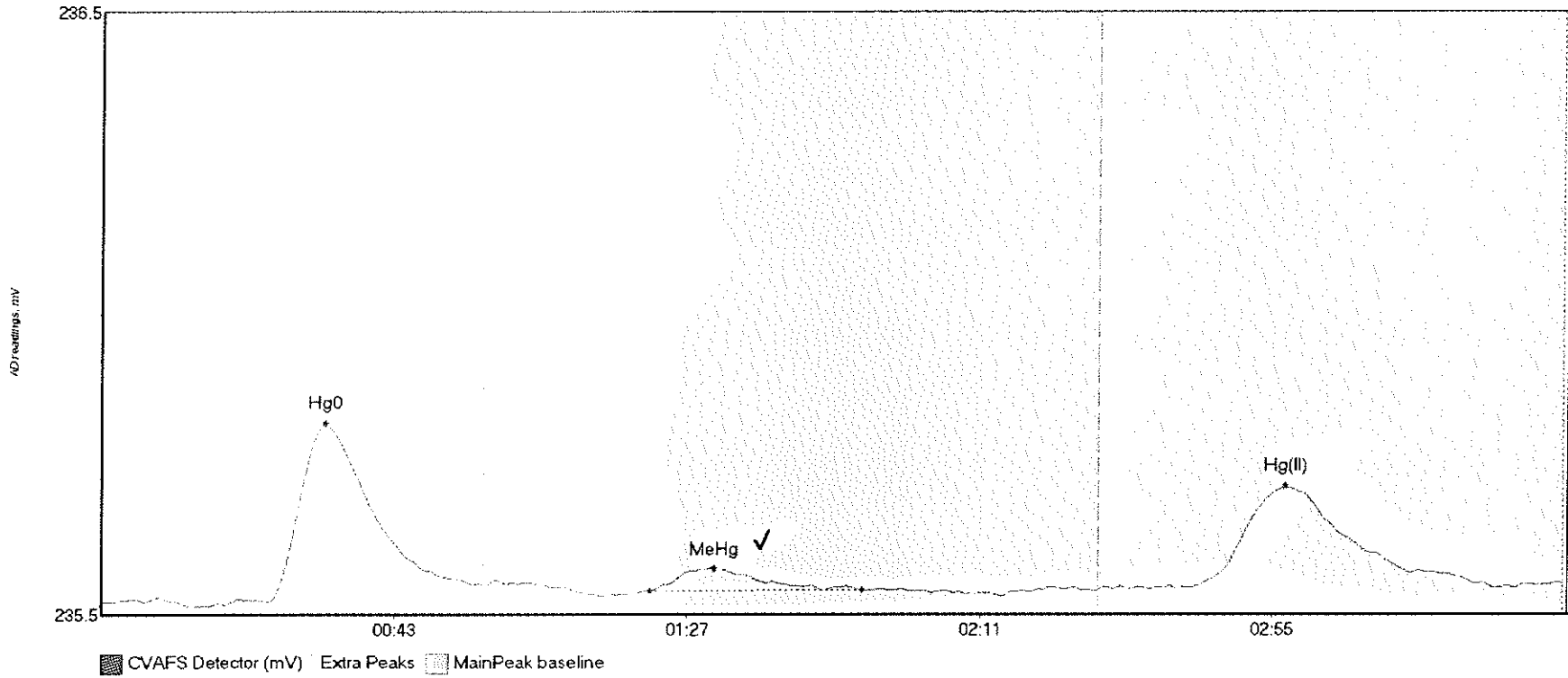
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-11 Hg0	67.496	19.9	57.5	235.54	235.57	32.6	0.568	CF	235.5375	0.60	0.05	
1608793-11 MeHg	647.583	80.1	137.6	235.57	235.58	90.7	4.720	OK	235.5375	0.60	0.05	
1608793-11 Hg(I)	62.961	164.6	211.9	235.59	235.59	178.6	0.363	OK	235.5375	0.60	0.05	

#57: SEQ-CCV4



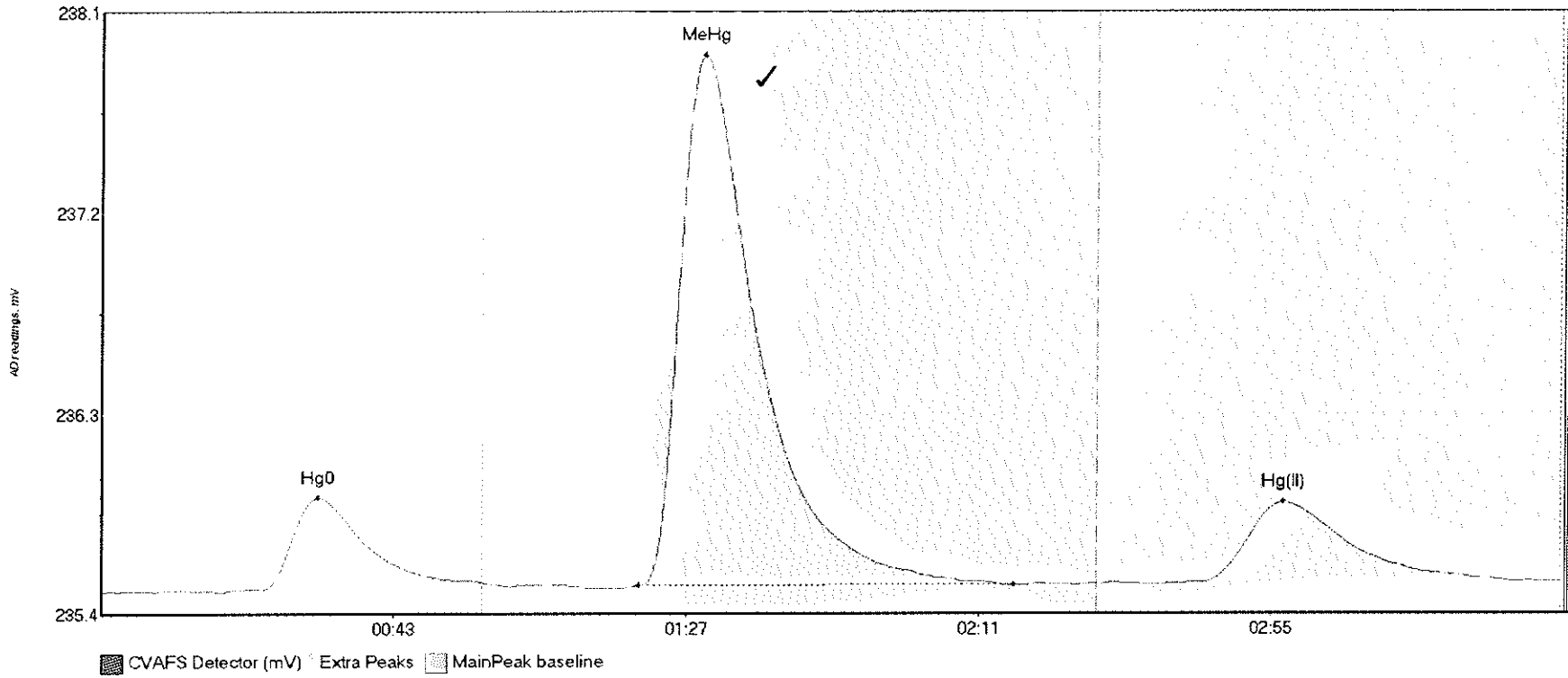
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	429.024	23.5	57.5	235.53	235.73	34.0	3.660	CT	235.5347	0.00	0.08	
SEQ-CCV4 MeHg	332.466	80.1	132.8	235.59	235.59	90.7	2.428	OK	235.5347	0.00	0.08	
SEQ-CCV4 Hg(II)	292.781	162.8	219.7	235.57	235.61	178.5	1.598	OK	235.5347	0.00	0.08	

#58: SEQ-CCB4



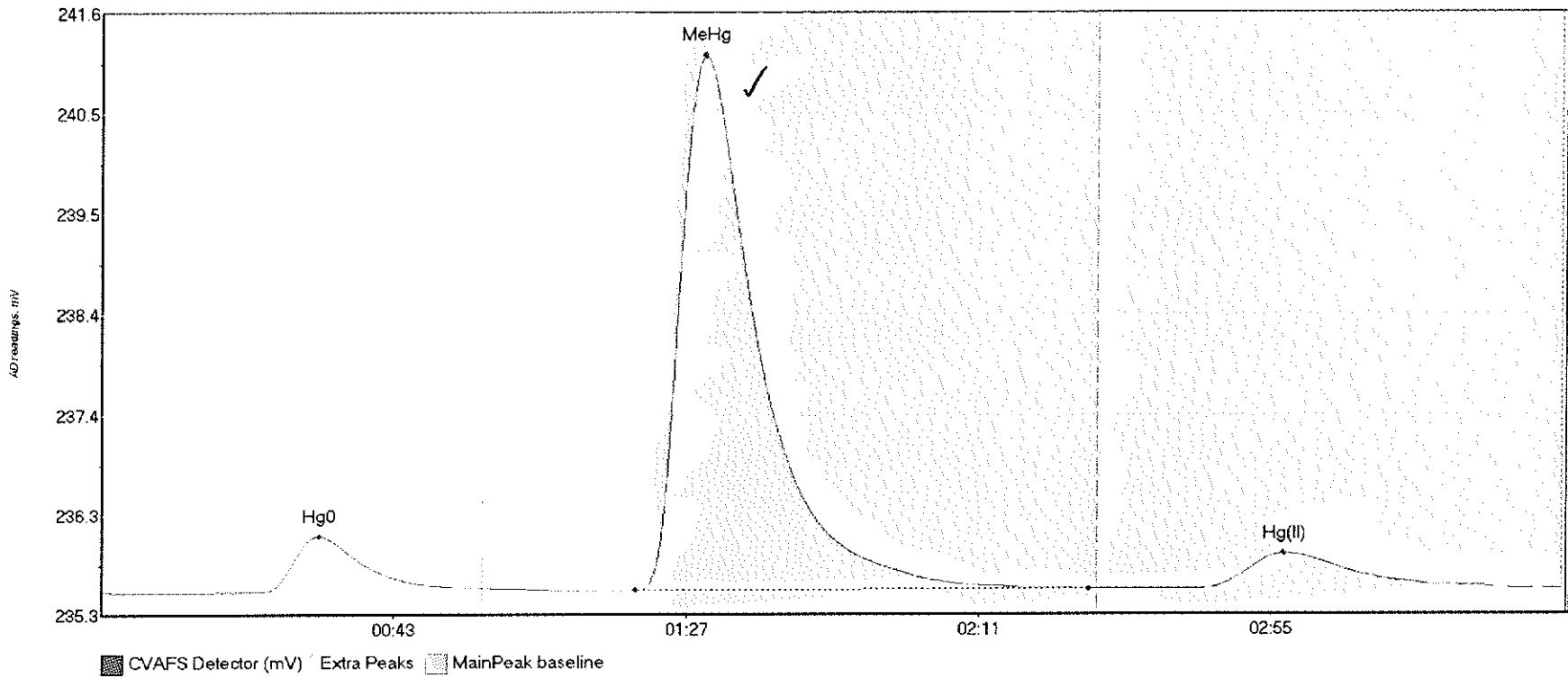
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	35.248	25.2	57.5	235.53	235.56	33.7	0.296	CT	235.5304	0.00	0.03	
SEQ-CCB4 MeHg	5.235	82.4	114.3	235.55	235.55	92.1	0.038	OK	235.5304	0.00	0.03	
SEQ-CCB4 Hg(II)	29.899	164.1	209.6	235.56	235.55	178.1	0.165	OK	235.5304	0.00	0.03	

#59: 1608793-12



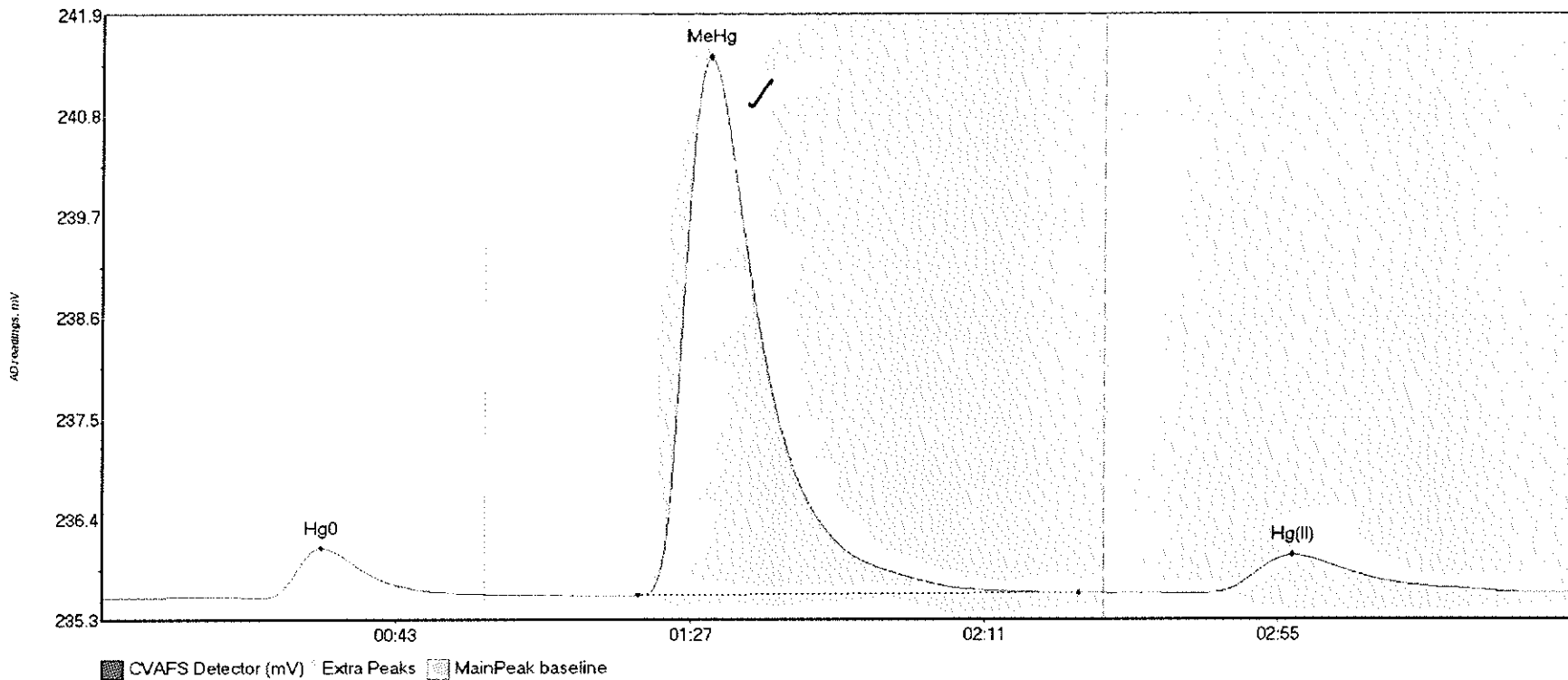
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-12 Hg0	50.750	17.9	57.5	235.53	235.57	32.7	0.425	CT	235.5311	0.00	0.05	
1608793-12 MeHg	325.521	80.9	137.3	235.56	235.56	90.8	2.374	OK	235.5311	0.00	0.05	
1608793-12 Hg(I)	62.763	163.3	217.7	235.57	235.58	177.9	0.363	OK	235.5311	0.00	0.05	

#60: 1608793-13



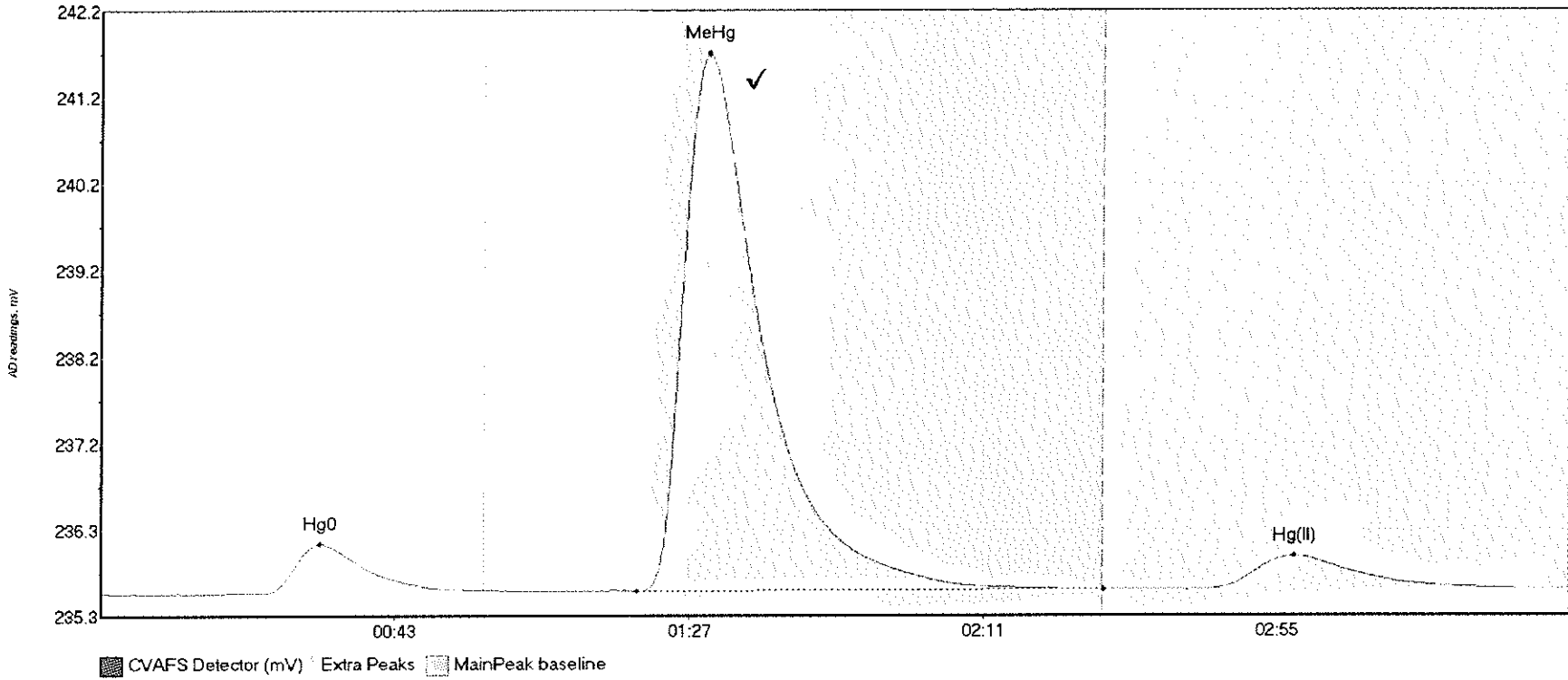
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-13 Hg0	66.409	23.9	57.5	235.54	235.58	32.8	0.581	CF	235.5393	0.00	0.03	
1608793-13 MeHg	764.790	80.3	148.6	235.56	235.57	90.8	5.558	OK	235.5393	0.00	0.03	
1608793-13 Hg(I)	63.509	165.4	211.2	235.58	235.58	178.0	0.364	OK	235.5393	0.00	0.03	

#61: 1608793-14



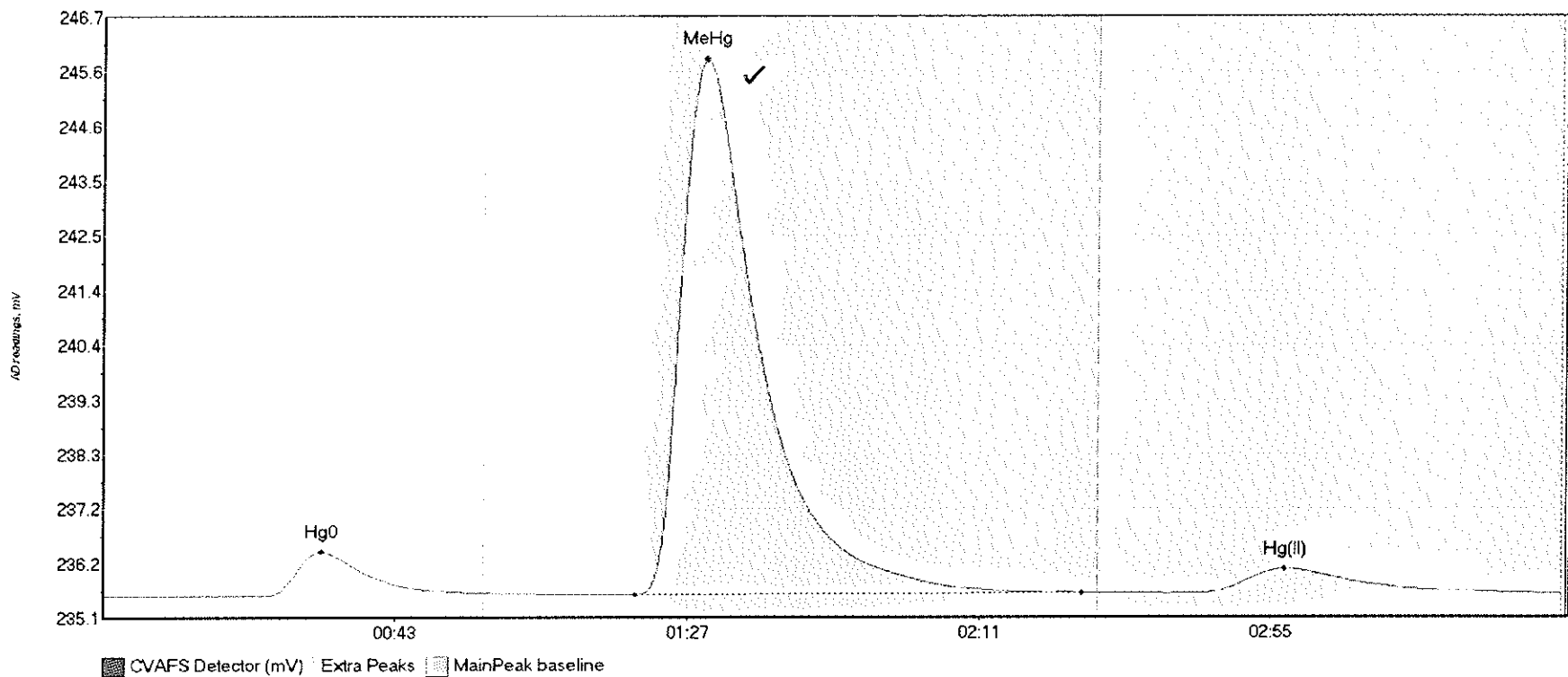
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-14 Hg0	62.066	7.0	57.4	235.52	235.56	32.9	0.550	OK	235.5208	0.00	0.06	
1608793-14 MeHg	810.504	80.1	146.2	235.55	235.57	90.9	5.917	OK	235.5208	0.00	0.06	
1608793-14 Hg(I)	77.410	163.2	214.2	235.56	235.58	178.2	0.427	OK	235.5208	0.00	0.06	

#62: 1608793-15



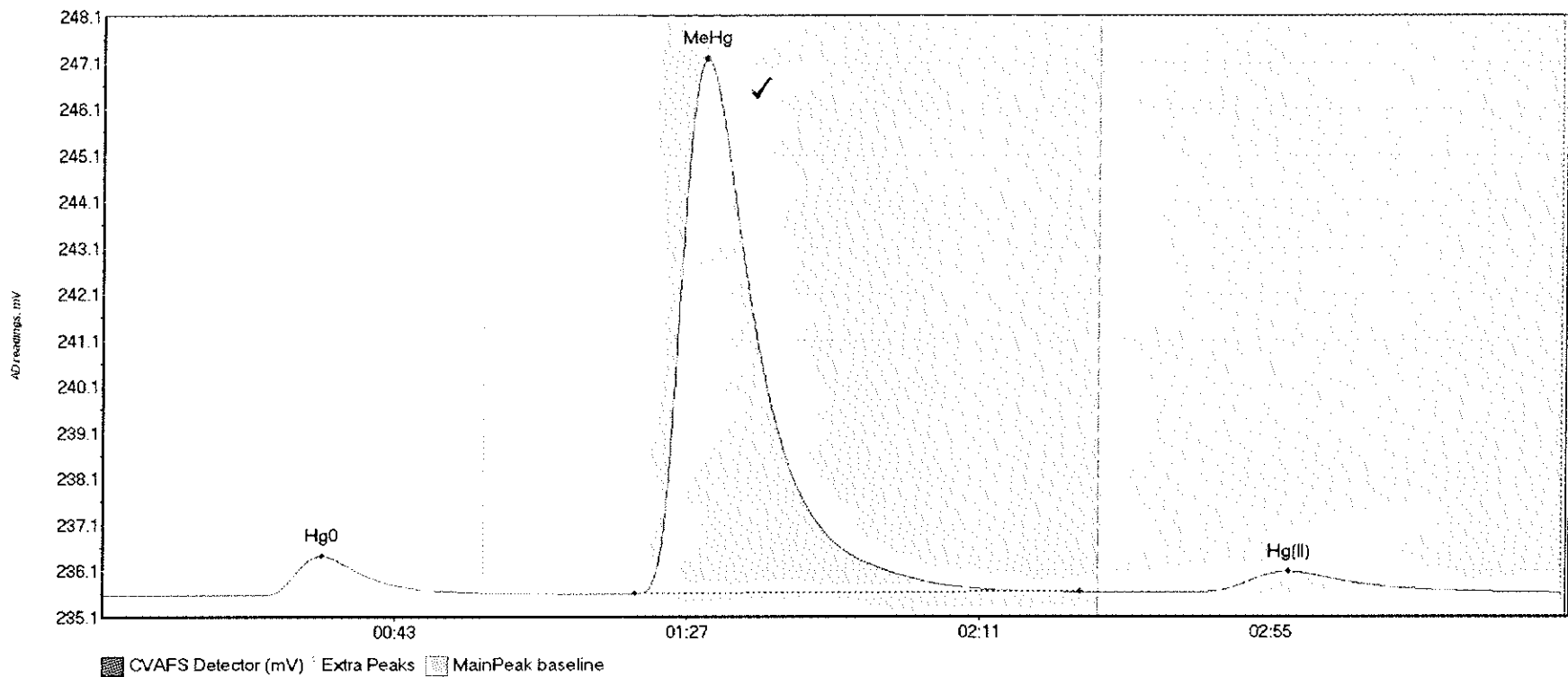
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-15 Hg0	64.073	24.4	55.5	235.53	235.57	32.9	0.562	OK	235.5330	0.00	0.04	
1608793-15 MeHg	846.073	80.2	150.0	235.56	235.57	90.9	6.131	CT	235.5330	0.00	0.04	
1608793-15 Hg(I)	66.360	162.6	216.9	235.57	235.58	178.6	0.382	OK	235.5330	0.00	0.04	

#63: 1608793-16



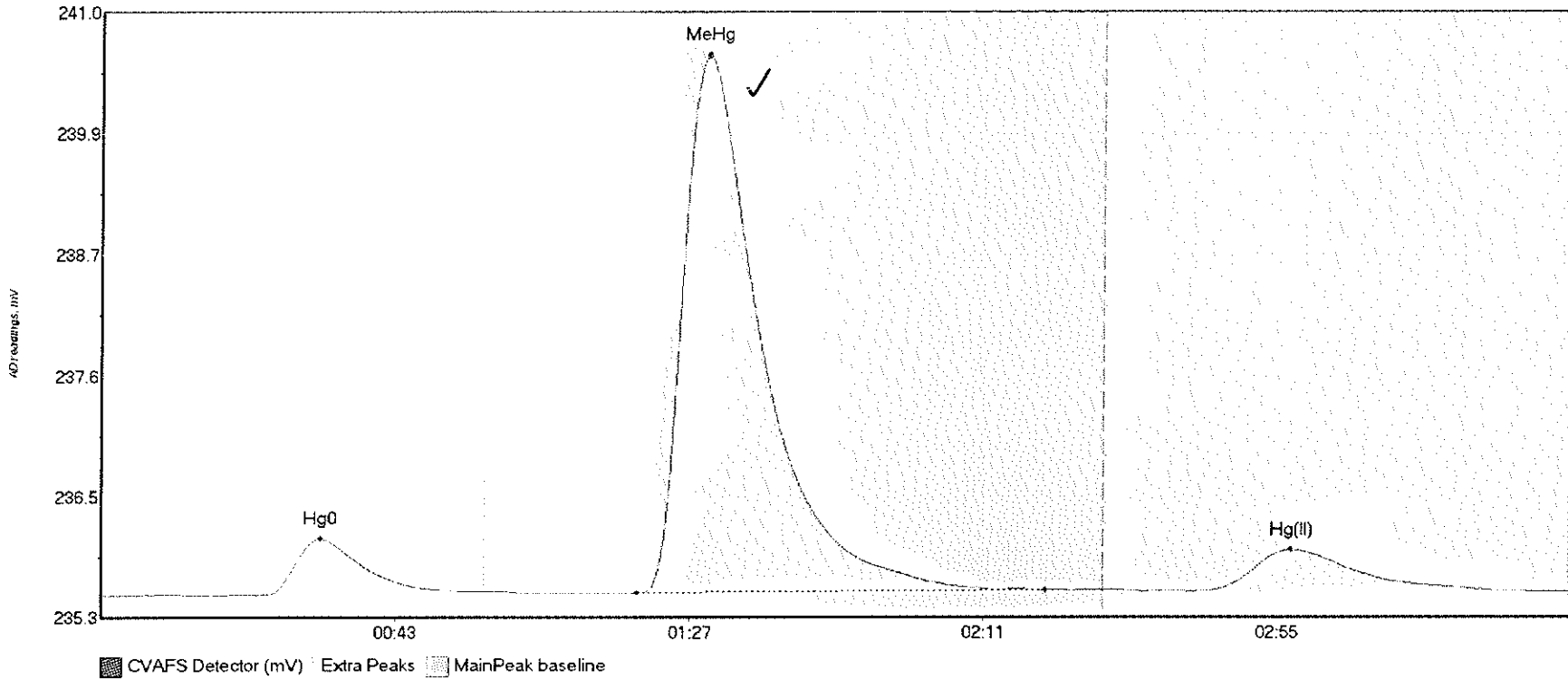
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-16 Hg0	97.458	24.2	57.5	235.53	235.58	33.0	0.849	CT	235.5351	0.00	0.04	
1608793-16 MeHg	1419.903	80.1	147.4	235.55	235.59	90.8	10.290	OK	235.5351	0.00	0.04	
1608793-16 Hg(I)	80.533	165.4	211.3	235.58	235.59	178.2	0.462	OK	235.5351	0.00	0.04	

#64: 1608793-17



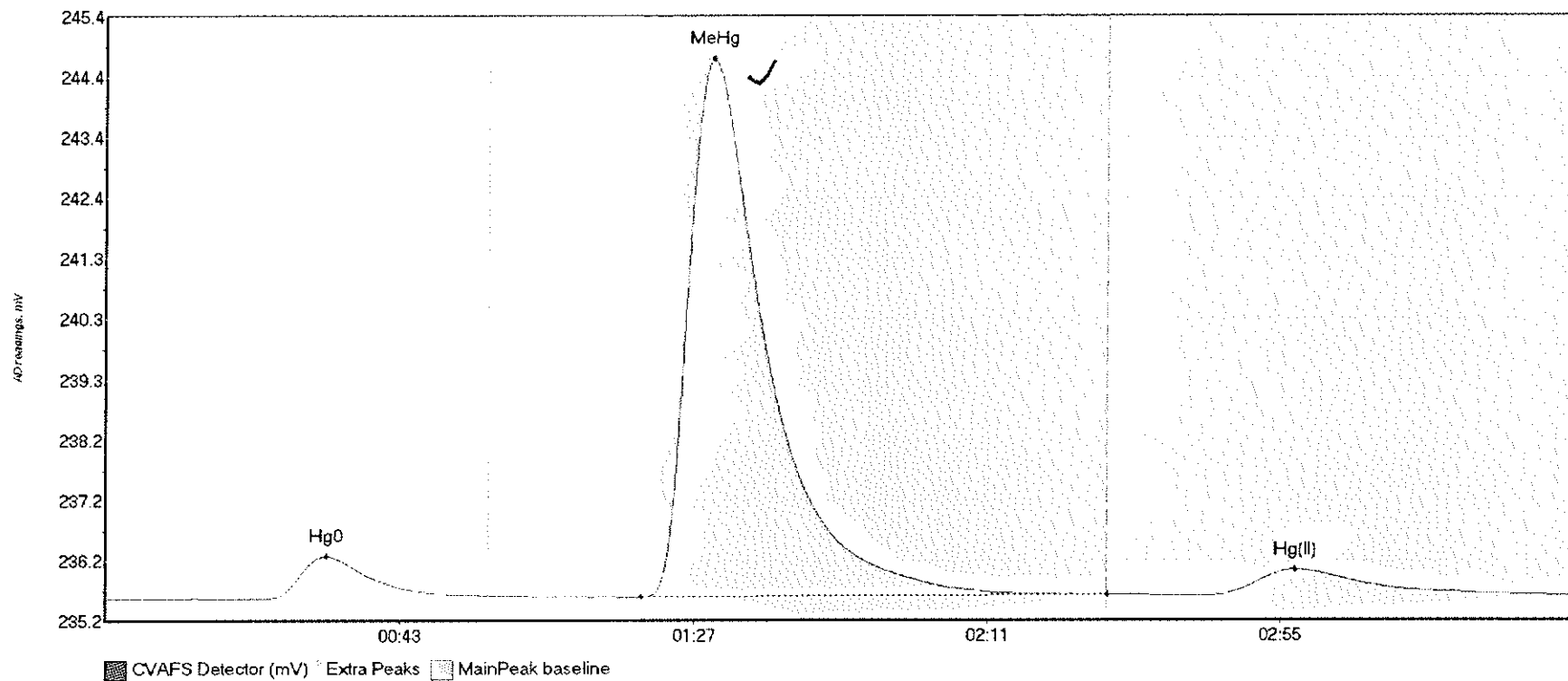
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-17 Hg0	98.008	24.3	57.5	235.53	235.57	33.0	0.850	CT	235.5241	0.00	0.05	
1608793-17 MeHg	1594.197	80.1	147.2	235.55	235.59	90.8	11.586	OK	235.5241	0.00	0.05	
1608793-17 Hg(I)	78.436	164.5	213.4	235.59	235.59	178.8	0.446	OK	235.5241	0.00	0.05	

#65: 1608793-18



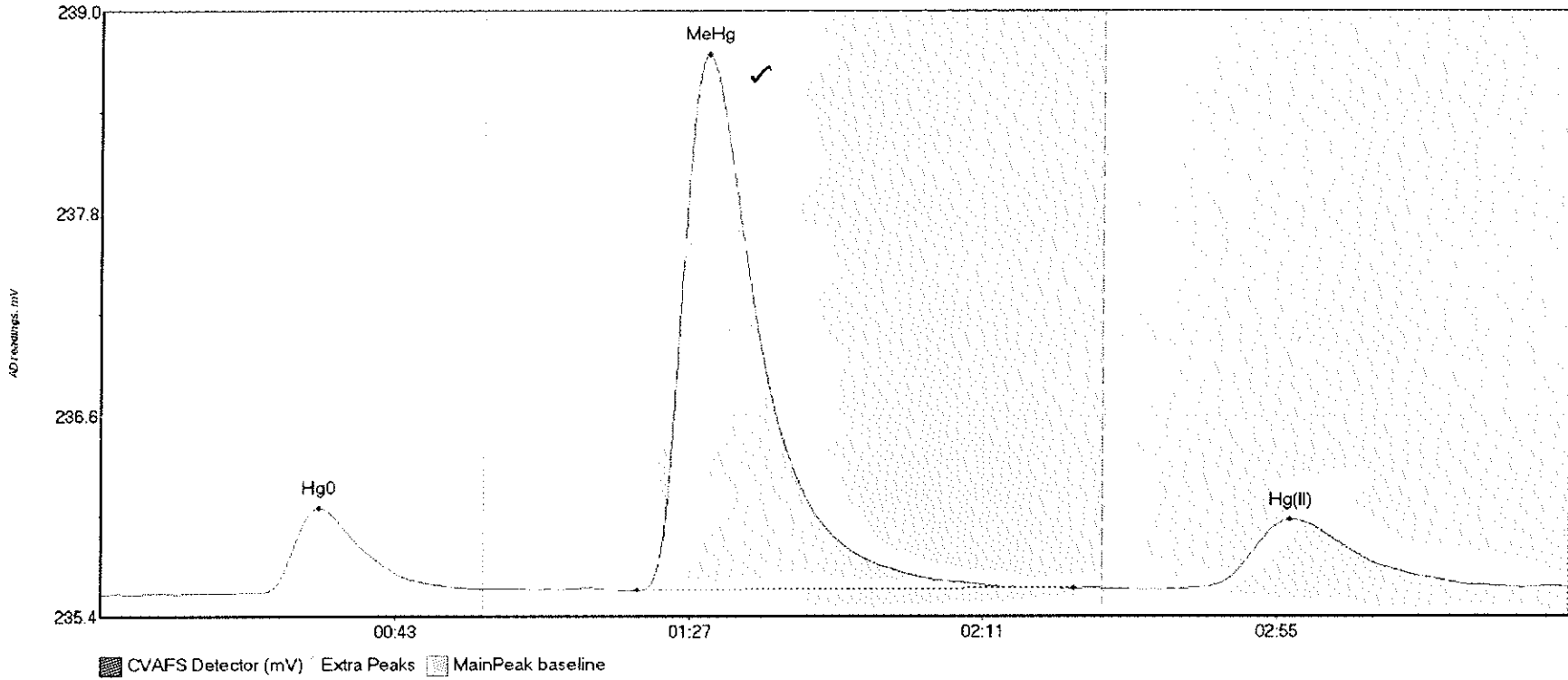
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1608793-18 Hg0	58.439	18.4	56.5	235.53	235.56	32.8	0.527	OK	235.5223	0.00	0.04	
1608793-18 MeHg	688.600	80.1	141.3	235.54	235.57	90.7	5.036	OK	235.5223	0.00	0.04	
1608793-18 Hg(I)	62.566	164.6	206.0	235.57	235.58	170.2	0.386	OK	235.5223	0.00	0.04	

#66: 1608793-19



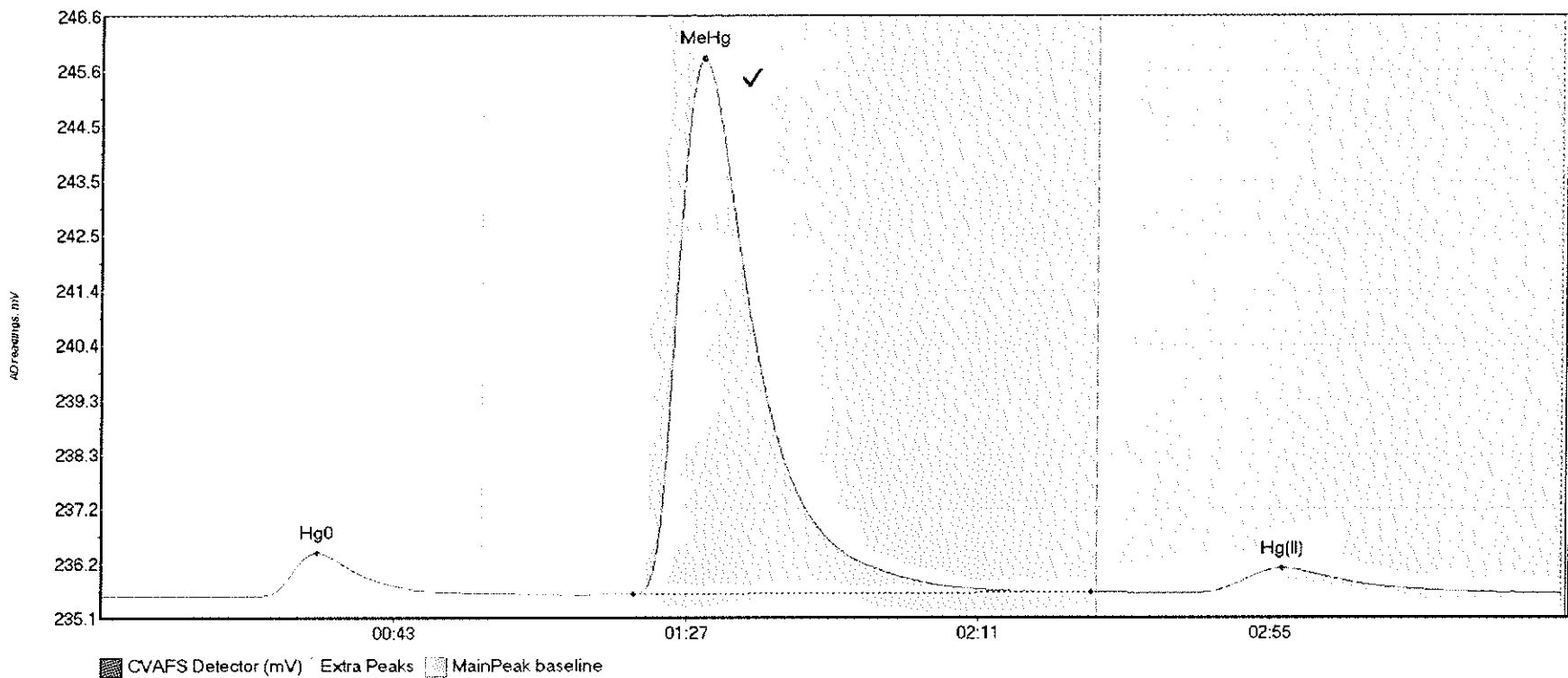
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-19 Hg0	82.031	21.5	57.5	235.53	235.59	33.0	0.721	CT	235.5289	0.00	0.06	
1608793-19 MeHg	1255.550	80.1	150.0	235.56	235.60	90.9	9.152	CT	235.5289	0.00	0.06	
1608793-19 Hg(I)	78.548	164.1	213.4	235.58	235.60	178.3	0.440	OK	235.5289	0.00	0.06	

#67: 1608793-20



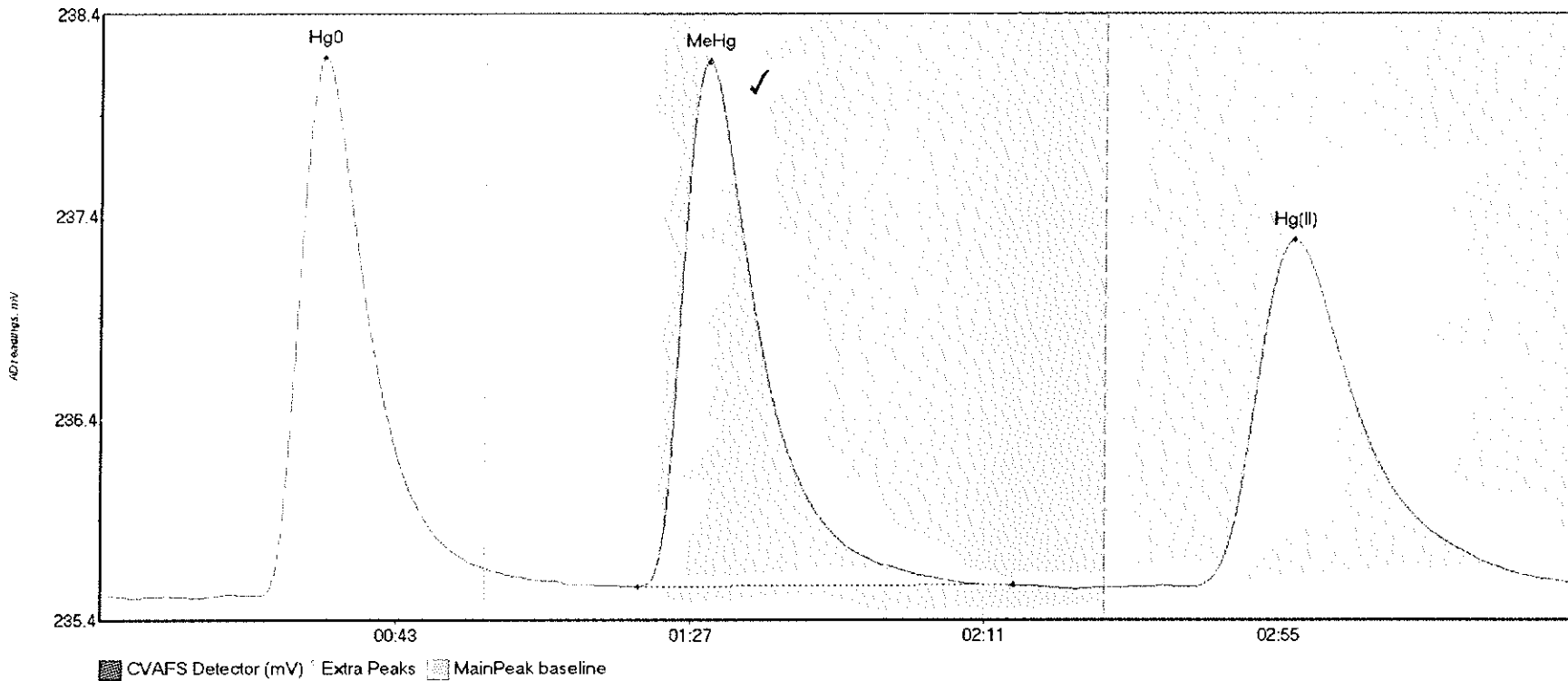
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-20 Hg0	57.189	11.5	55.6	235.53	235.57	32.6	0.509	OK	235.5294	0.00	0.05	
1608793-20 MeHg	433.676	80.1	145.6	235.56	235.57	90.7	3.162	OK	235.5294	0.00	0.05	
1608793-20 Hg(I)	74.029	161.5	212.8	235.56	235.57	176.1	0.410	OK	235.5294	0.00	0.05	

#68: 1608793-21



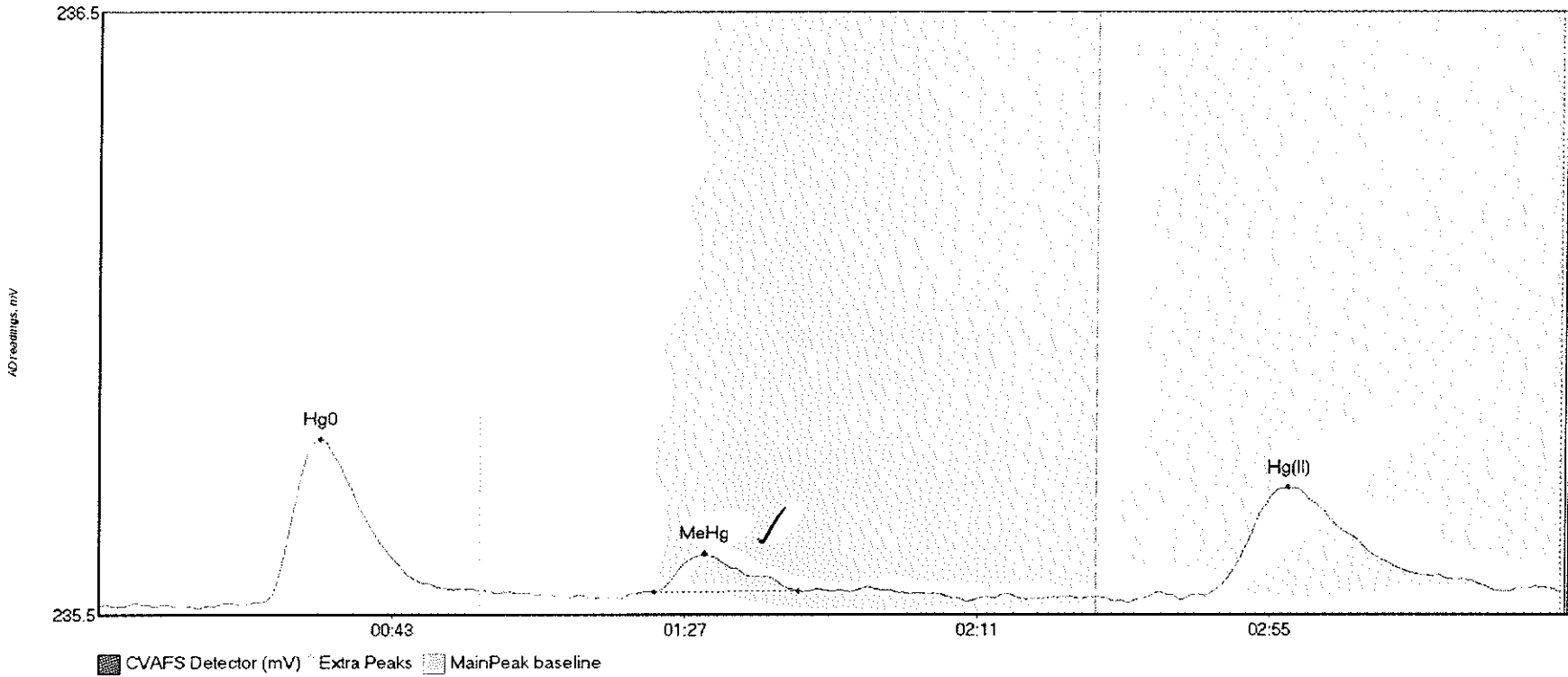
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-21 Hg0	92.298	22.8	57.5	235.53	235.59	32.5	0.822	CT	235.5307	0.00	0.06	
1608793-21 MeHg	1409.777	80.1	149.0	235.56	235.60	90.4	10.257	OK	235.5307	0.00	0.06	
1608793-21 Hg(I)	79.170	164.7	208.8	235.59	235.60	177.9	0.471	OK	235.5307	0.00	0.06	

#69: SEQ-CCV5



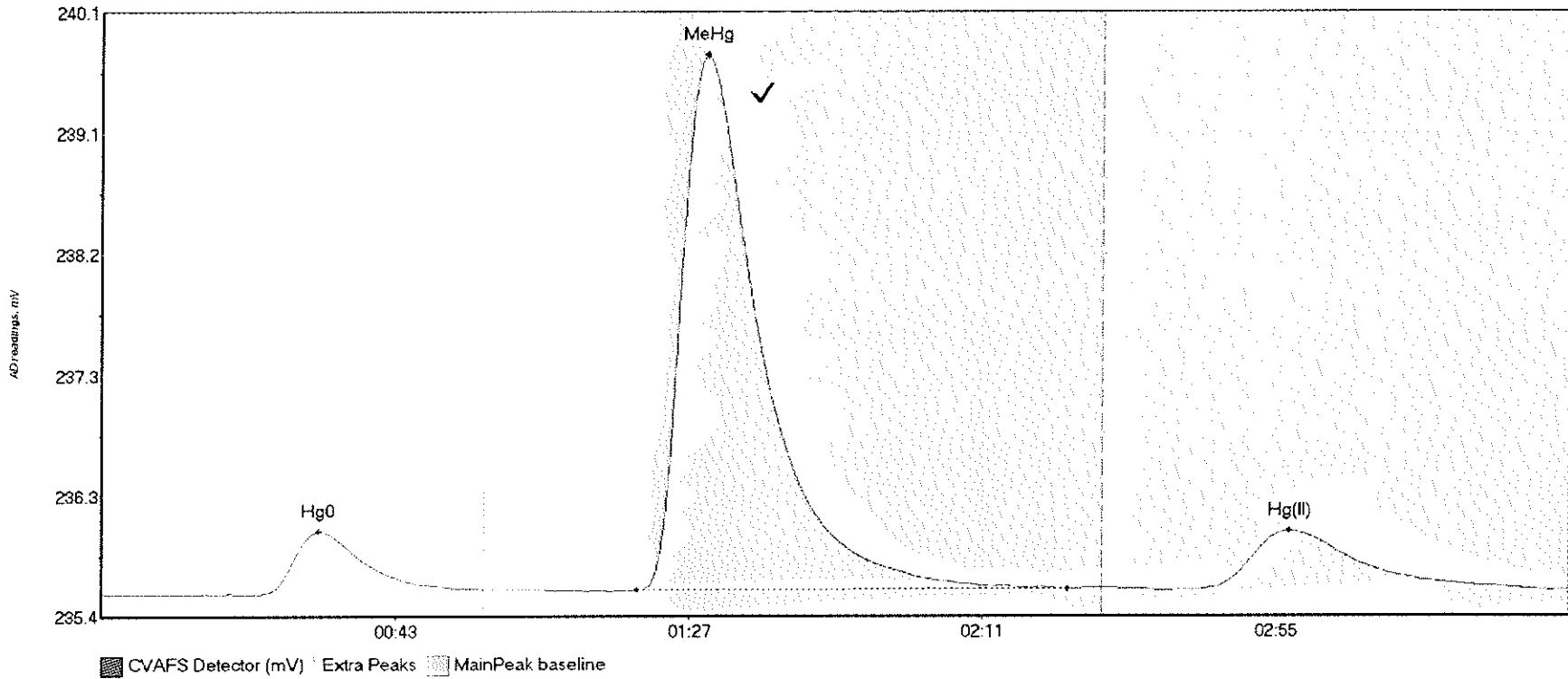
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	304.701	16.6	57.5	235.54	235.67	33.2	2.631	CT	235.5347	0.00	0.07	
SEQ-CCV5 MeHg	348.351	80.1	136.4	235.58	235.59	90.7	2.562	OK	235.5347	0.00	0.07	
SEQ-CCV5 Hg(II)	308.305	162.9	219.8	235.58	235.60	178.3	1.694	CT	235.5347	0.00	0.07	

#70: SEQ-CCB5



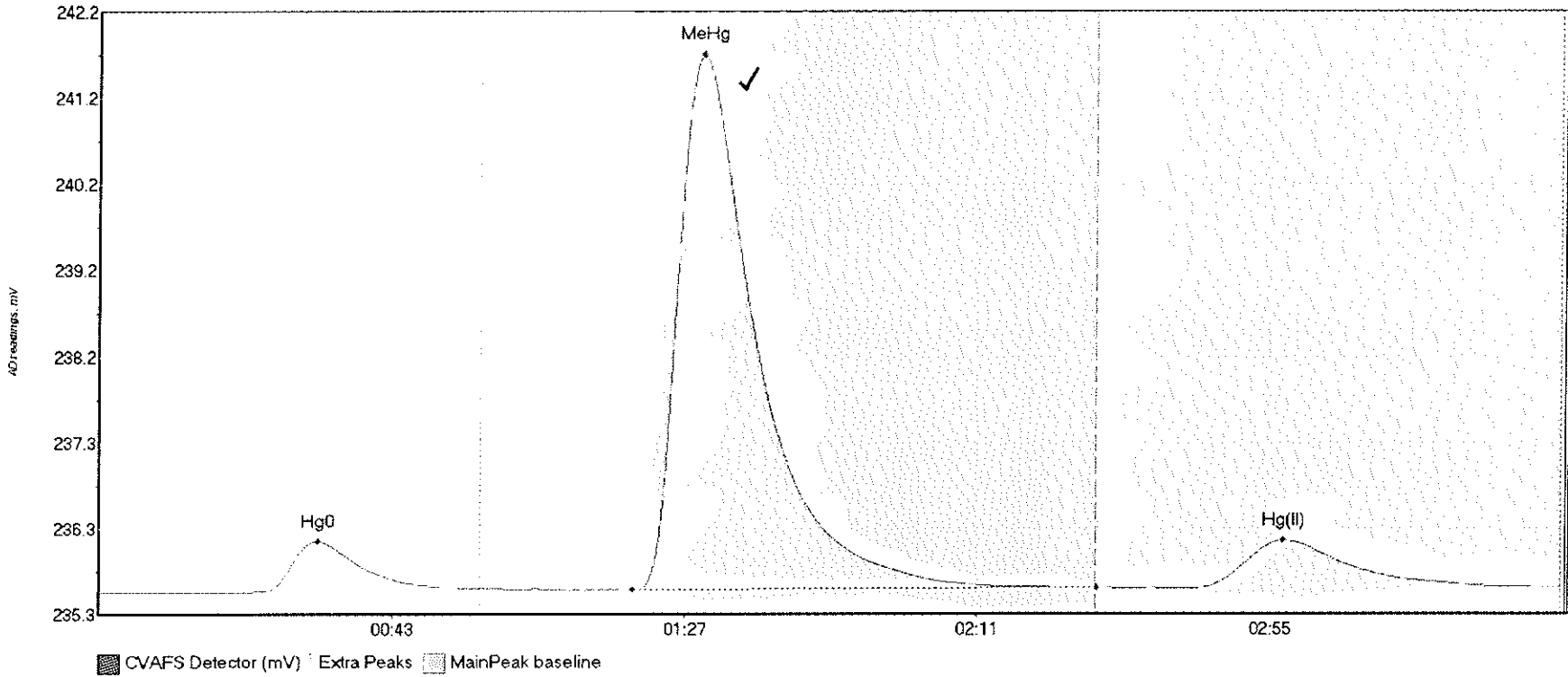
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB5 Hg0	31.610	24.1	57.4	235.55	235.57	33.1	0.271	OK	235.5478	0.00	0.02	
SEQ-CCB5 MeHg	6.859	83.4	105.2	235.57	235.57	91.0	0.062	OK	235.5478	0.00	0.02	
SEQ-CCB5 Hg(II)	32.647	166.3	211.3	235.56	235.57	178.9	0.179	OK	235.5478	0.00	0.02	

#71: 1608793-22



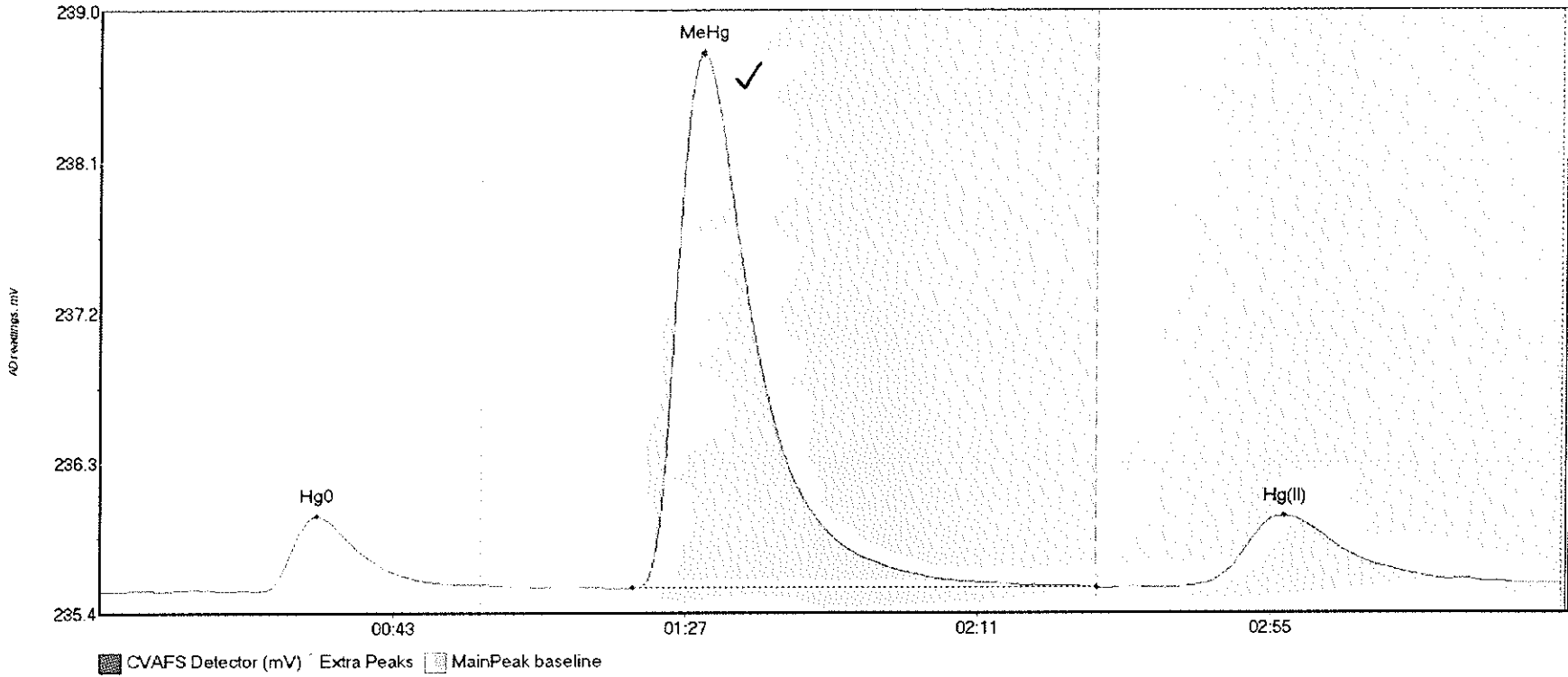
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-22 Hg0	57.172	23.5	57.5	235.54	235.58	32.5	0.492	CT	235.5457	0.00	0.03	
1608793-22 MeHg	573.178	80.1	144.7	235.58	235.59	90.6	4.168	OK	235.5457	0.00	0.03	
1608793-22 Hg(I)	80.745	164.7	213.7	235.58	235.59	178.1	0.455	OK	235.5457	0.00	0.03	

#72: 1608793-23



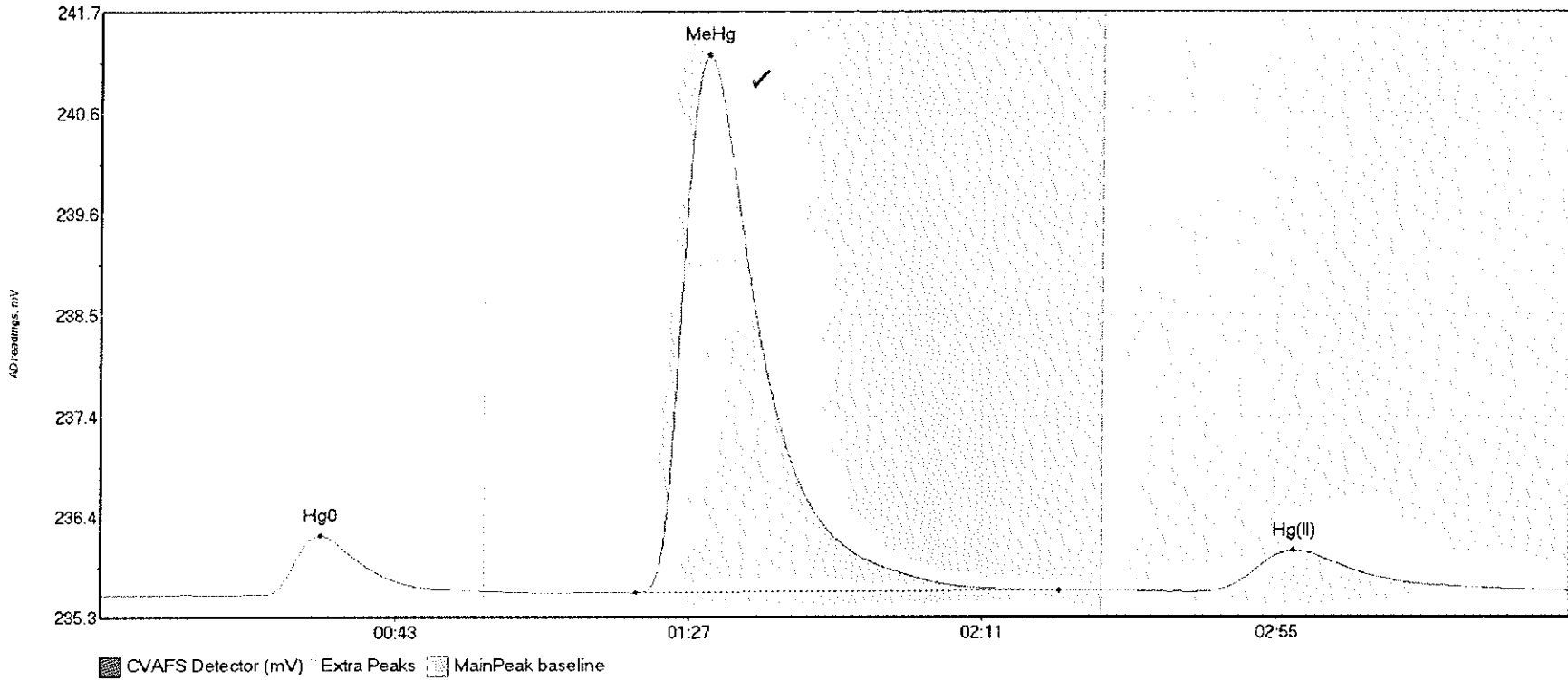
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-23 Hg0	66.293	22.0	57.5	235.54	235.58	32.8	0.587	CT	235.5411	0.00	0.05	
1608793-23 MeHg	844.726	80.1	150.0	235.56	235.59	90.7	6.138	CT	235.5411	0.00	0.05	
1608793-23 Hg(I)	96.974	164.8	217.5	235.59	235.59	178.0	0.547	OK	235.5411	0.00	0.05	

#73: 1608793-24



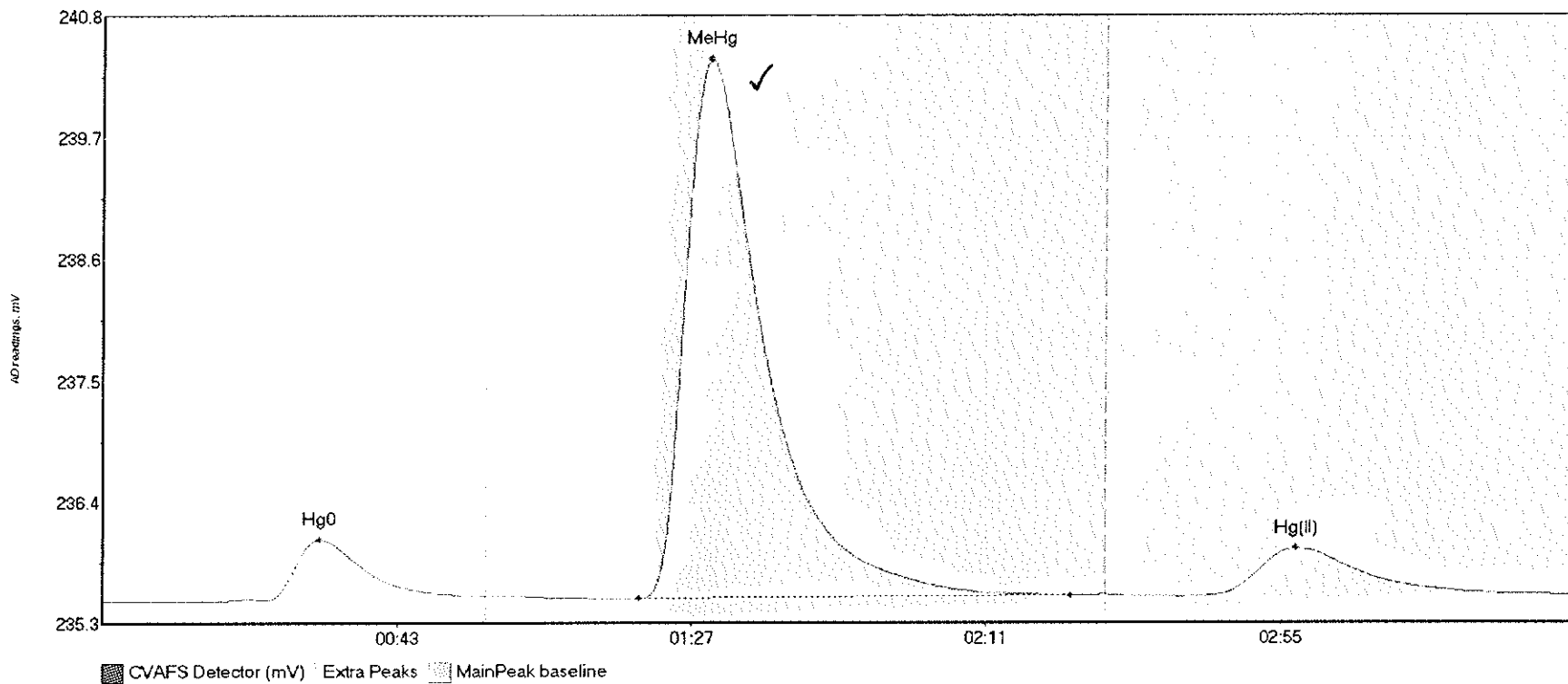
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1608793-24 Hg0	50.418	24.1	55.9	235.54	235.58	32.6	0.450	OK	235.5399	0.00	0.04	
1608793-24 MeHg	446.223	80.1	150.0	235.56	235.56	90.6	3.217	CT	235.5399	0.00	0.04	
1608793-24 Hg(I)	76.321	161.8	217.0	235.56	235.58	178.2	0.428	OK	235.5399	0.00	0.04	

#74: 1608793-25



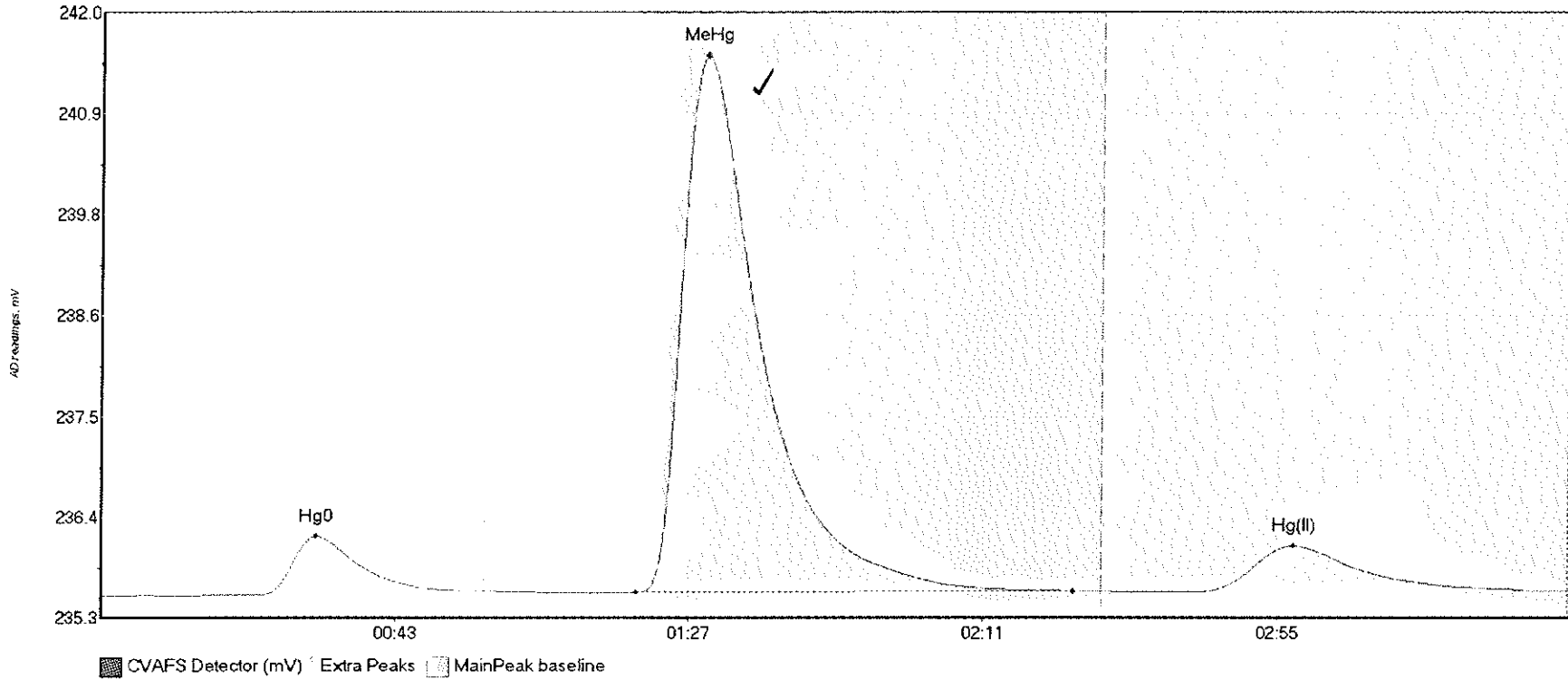
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-25 Hg0	69.503	23.6	57.4	235.55	235.59	32.9	0.625	OK	235.5495	0.00	0.04	
1608793-25 MeHg	776.909	80.1	143.6	235.57	235.59	90.9	5.664	OK	235.5495	0.00	0.04	
1608793-25 Hg(1)	75.442	163.7	213.9	235.58	235.60	178.6	0.436	OK	235.5495	0.00	0.04	

#75: 1608793-26



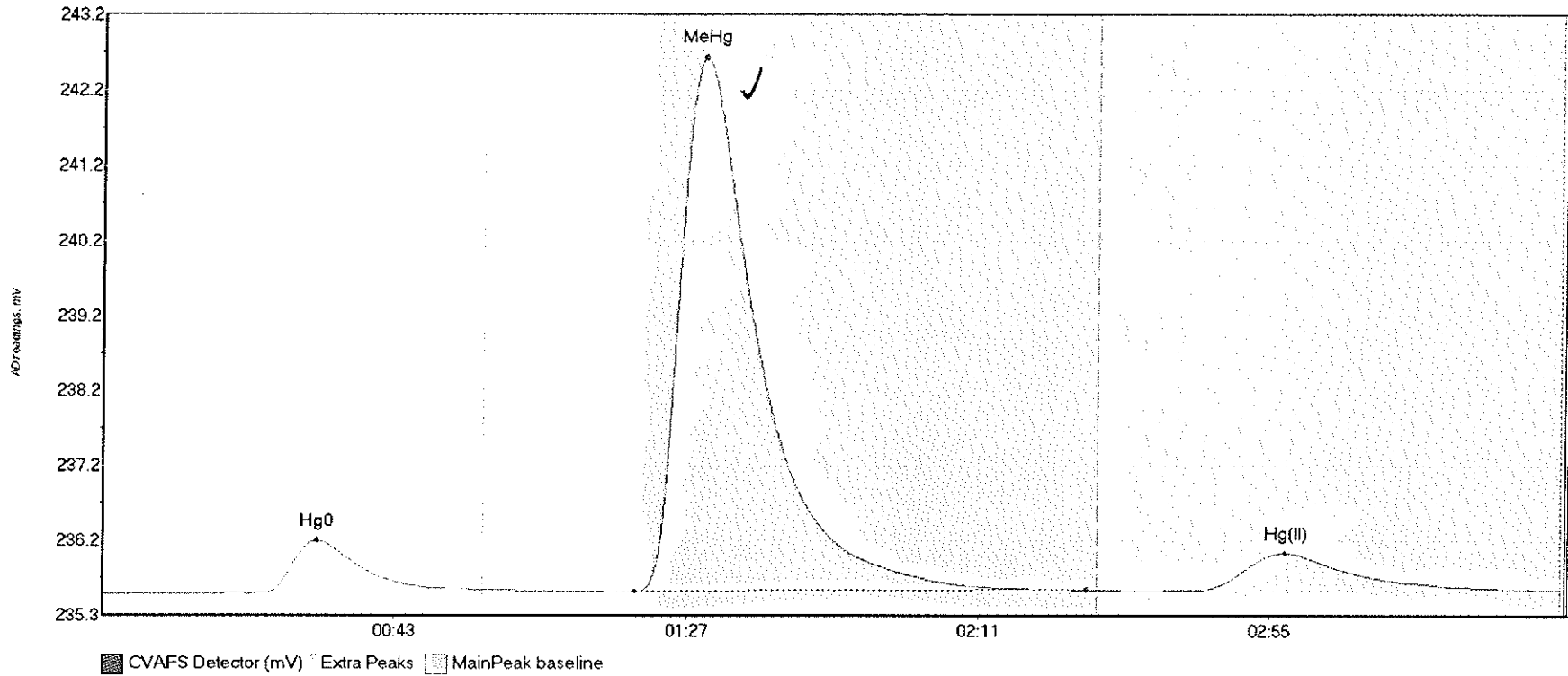
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608793-26 Hg0	62.431	17.4	57.5	235.54	235.59	32.5	0.554	OT	235.5450	0.00	0.05	
1608793-26 MeHg	663.705	80.3	144.8	235.56	235.59	90.8	4.826	OK	235.5450	0.00	0.05	
1608793-26 Hg(I)	71.212	165.8	209.9	235.59	235.61	178.3	0.421	OK	235.5450	0.00	0.05	

#76: F609558-DUP1



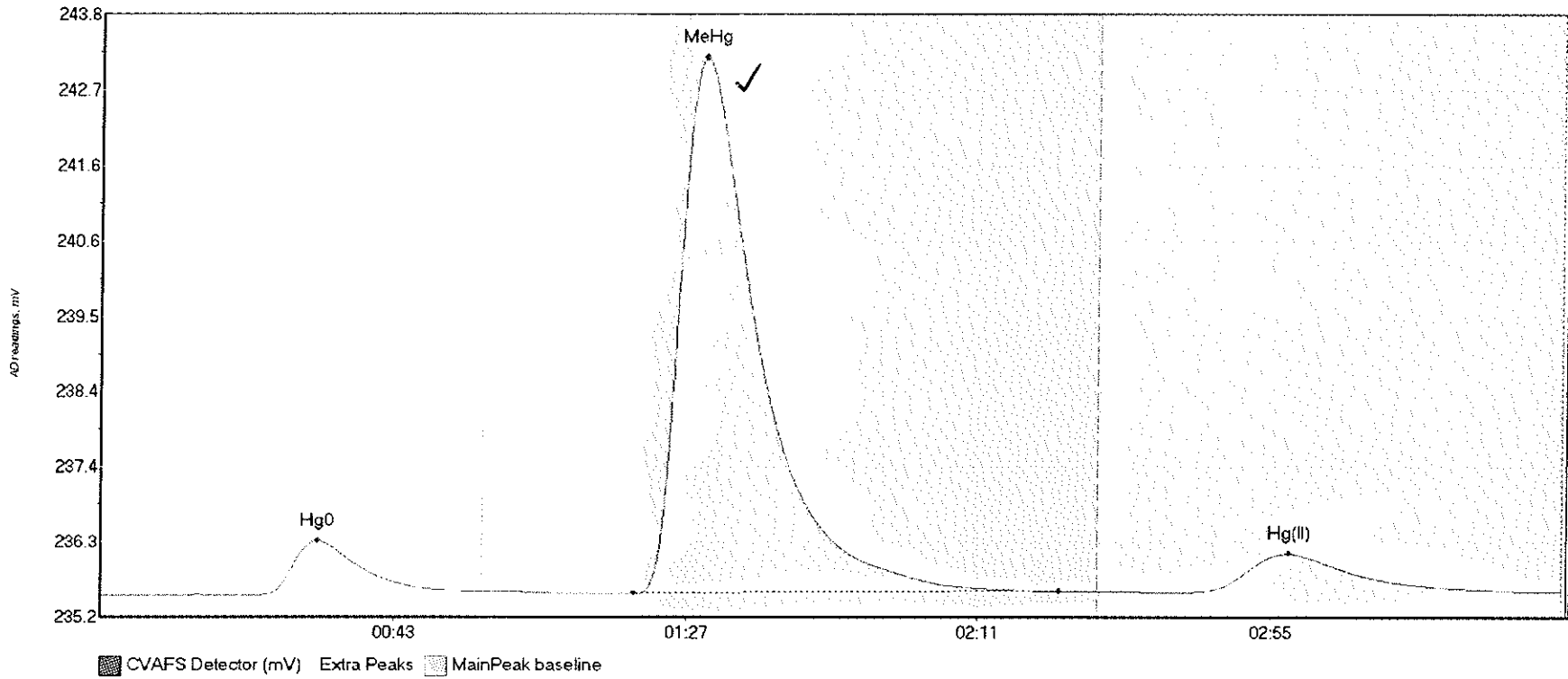
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609558-DUP1 Hg	70.614	13.4	57.5	235.55	235.59	32.3	0.656	CT	235.5430	0.00	0.05	
F609558-DUP1 Me	816.868	80.1	145.6	235.58	235.59	90.8	5.935	OK	235.5430	0.00	0.05	
F609558-DUP1 Hg	93.647	164.1	216.9	235.59	235.59	178.4	0.510	OK	235.5430	0.00	0.05	

#77: F609558-MS1



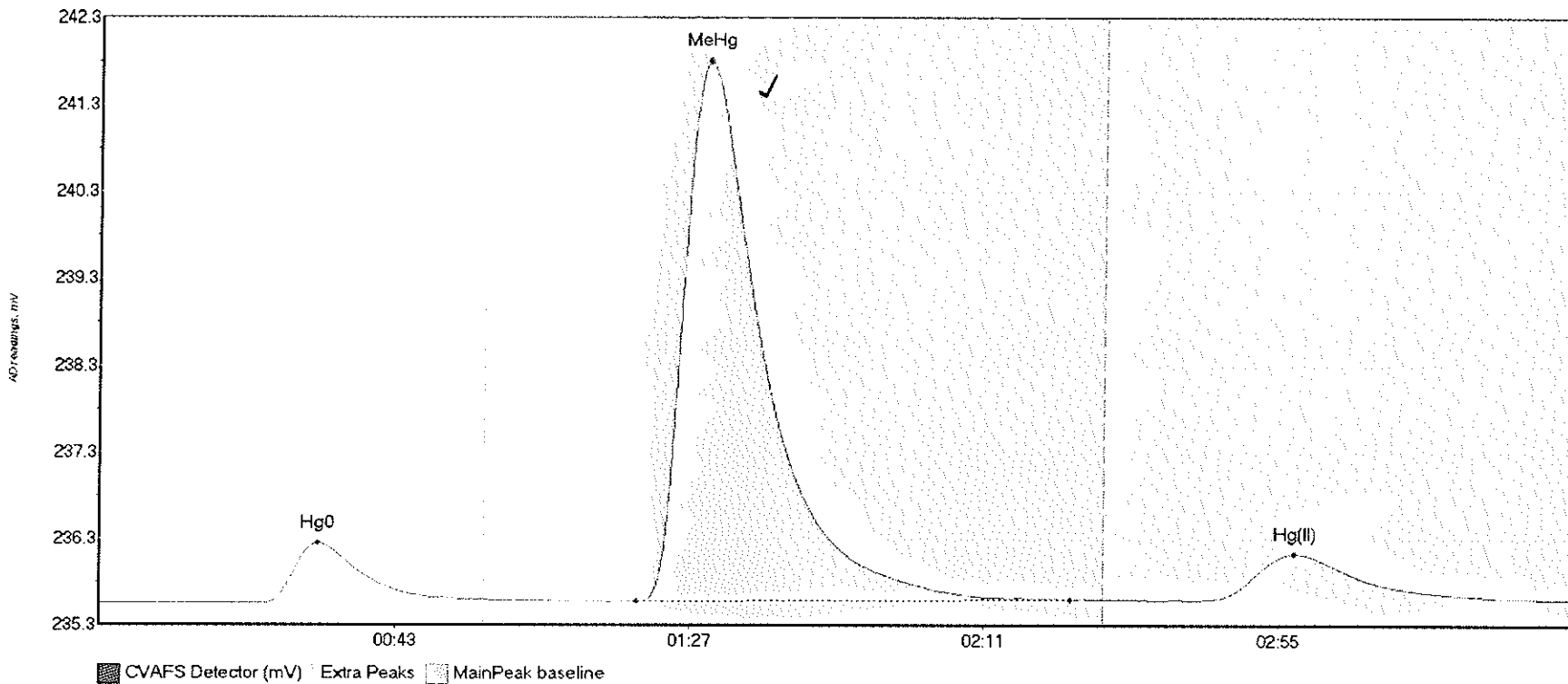
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609558-MS1 Hg0	78.861	22.9	57.1	235.55	235.60	32.3	0.697	OK	235.5490	0.00	0.05	
F609558-MS1 MeHg	970.381	80.1	148.3	235.57	235.60	90.6	7.055	OK	235.5490	0.00	0.05	
F609558-MS1 Hg(II)	87.638	163.8	216.0	235.59	235.60	178.4	0.493	OK	235.5490	0.00	0.05	

#78: F609558-MSD1



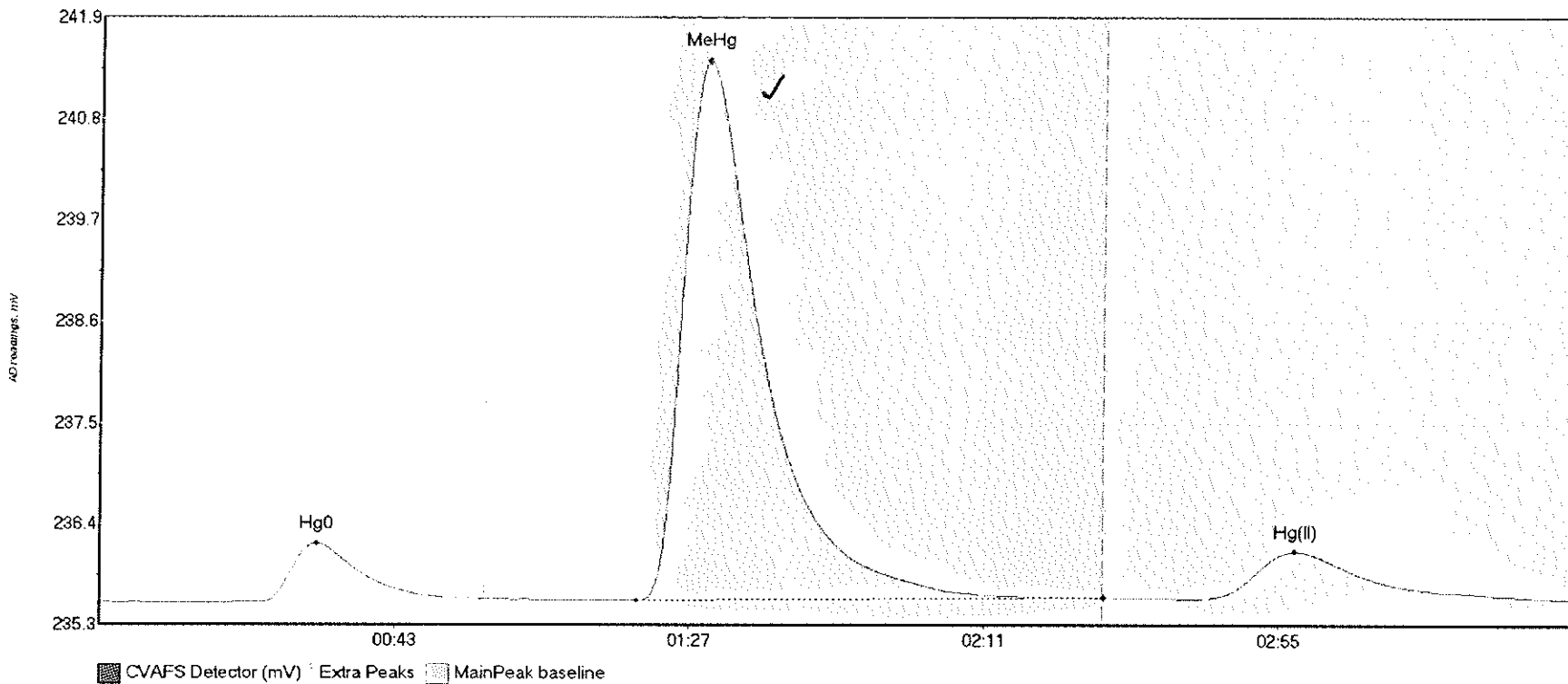
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609558-MSD1 Hg	86.383	23.5	57.4	235.55	235.60	32.6	0.770	OK	235.5434	0.00	0.05	
F609558-MSD1 Me	1041.407	80.1	144.2	235.57	235.60	90.8	7.603	OK	235.5434	0.00	0.05	
F609558-MSD1 Hg	98.406	163.4	213.9	235.59	235.60	178.7	0.552	OK	235.5434	0.00	0.05	

#79: F609558-MS2



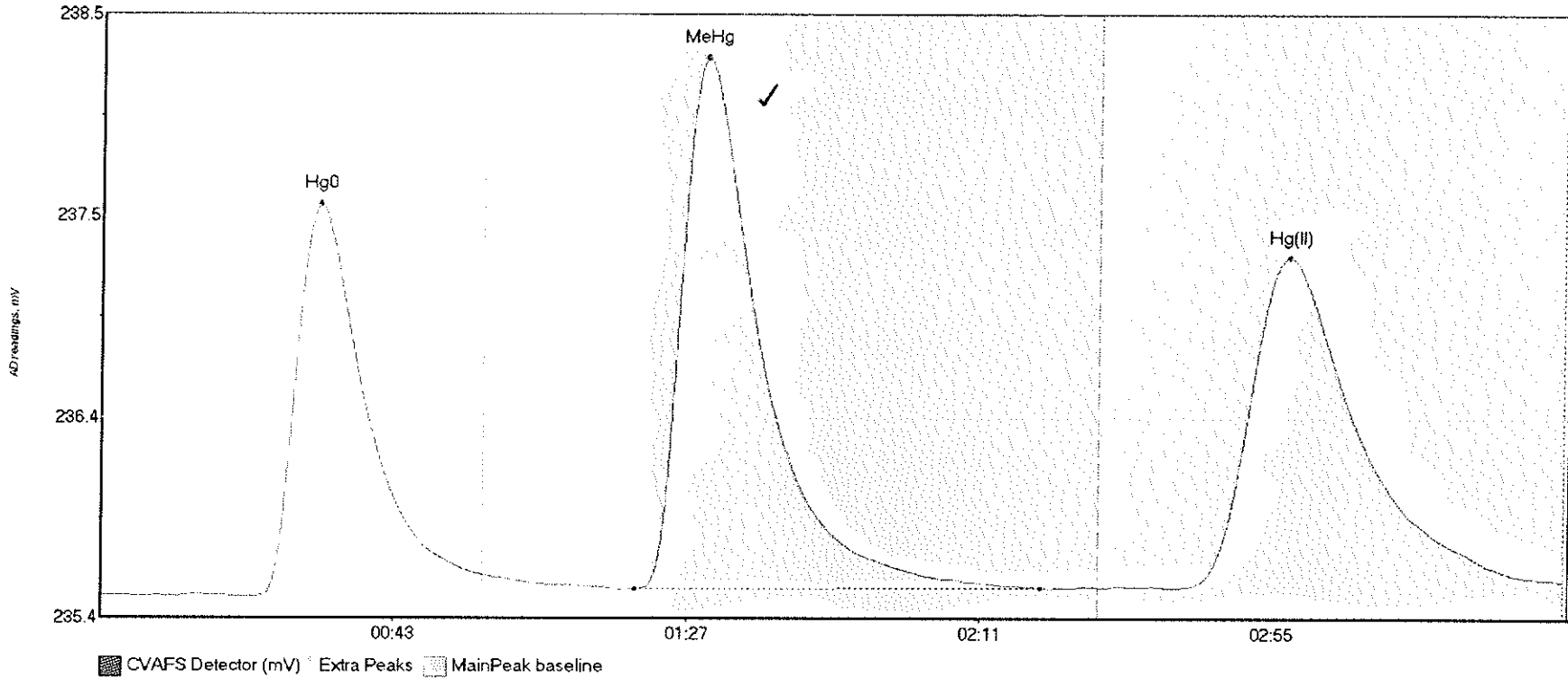
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609558-MS2 Hg0	77.535	23.6	57.5	235.54	235.59	32.4	0.699	CT	235.5417	0.00	0.04	
F609558-MS2 MeH	860.568	80.1	145.0	235.57	235.59	90.8	6.269	OK	235.5417	0.00	0.04	
F609558-MS2 Hg(	94.051	163.4	215.7	235.58	235.59	178.5	0.537	OK	235.5417	0.00	0.04	

#80: F609558-MSD2



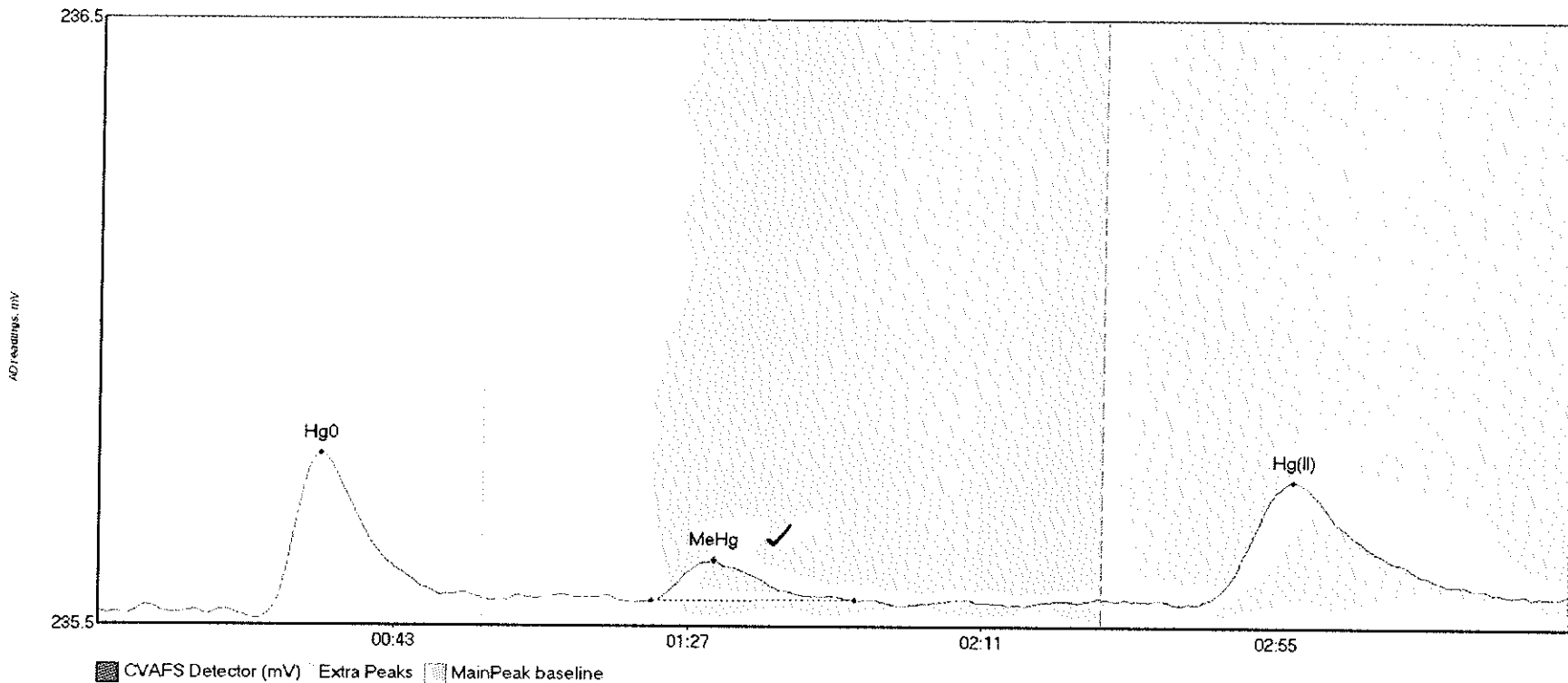
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609558-MSD2 Hg	71.943	23.7	56.9	235.55	235.59	32.5	0.641	OK	235.5457	0.00	0.03	
F609558-MSD2 Me	811.556	80.1	150.0	235.57	235.59	90.8	5.876	CT	235.5457	0.00	0.03	
F609558-MSD2 Hg	92.517	164.5	214.8	235.59	235.60	178.5	0.516	OK	235.5457	0.00	0.03	

#81: SEQ-CCV6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV6 Hg0	226.642	22.6	57.5	235.55	235.66	32.9	1.967	CT	235.5546	0.00	0.07	
SEQ-CCV6 MeHg	369.221	80.1	141.1	235.59	235.59	90.8	2.661	OK	235.5546	0.00	0.07	
SEQ-CCV6 Hg(II)	301.804	163.1	219.8	235.60	235.63	178.5	1.656	CT	235.5546	0.00	0.07	

#82: SEQ-CCB6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB6 Hg0	31.962	23.8	57.5	235.55	235.58	33.0	0.273	CT	235.5557	0.00	0.03	
SEQ-CCB6 MeHg	8.508	82.6	113.0	235.58	235.58	91.9	0.065	OK	235.5557	0.00	0.03	
SEQ-CCB6 Hg(II)	37.860	163.7	214.2	235.57	235.58	178.5	0.204	OK	235.5557	0.00	0.03	

Peer Review Check List for MHg for CV-GC-AFS (FGS-070) 2015 Rev 5 (08/06/2015)

Analyst: DON MORAN	Sequence #: 6I29018, 6I29013
Reviewer: DAN WEIKART 9.24.16	Dataset ID #: MMHG27001-160928-1
Date: 9.29.16	WO #: 1608793, 1608980, 1608981, 1609068
Batch #(s): F609558, F609569	Client(s): [REDACTED]

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input checked="" type="checkbox"/> MHg	FGS-013 MHg Distillation	Water
<input checked="" type="checkbox"/> MHg	FGS-010 KOH/MeOH Digest	Tissue
<input type="checkbox"/> MHg	FGS-045 MeCl Extraction	Sed/Soil
<input type="checkbox"/> DMHg	FGS-098 (None Accredited method)	ALL

Analyst Initials:

DM

Reviewer Initials:

Dm

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 type="checkbox"/> YES	<input checked="" 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 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"/>
QA/QC Data Checked			
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 (FGS-070) 2013 Rev 4 (08/22/2013)

Analyst: DON MORAN	Sequence #: 6129018, 6129013
Reviewer: 0	Dataset ID #: MMHG27001-160928-1
Date: 9/29/2016	WO #: 1608793, 1608980, 1608981, 1609068
Batch #(s): F609558, F609569	Client(s): [REDACTED]

Analyst Initials:

DM

Reviewer Initials:

DMW

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 checked="" type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: F609558-BS1, BSD1 FAILED. LOW RECOVERY			
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 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 checked="" type="checkbox"/> PASS	<input type="checkbox"/> NO	<input 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 (FGS-070) 2013 Rev 4 (08/22/2013)

Analyst: DON MORAN	Sequence #: 6I29018, 6I29013
Reviewer: 0	Dataset ID #: MMHG27001-160928-1
Date: 9/29/2016	WO #: 1608793, 1608980, 1608981, 1609068
Batch #(s): F609558, F609569	Client(s): [REDACTED]

Analyst Initials:

DM

Reviewer Initials:

DMr

29. Are re-runs noted with reason? Comments: _____	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
30. For failing QC (CCV, CCB, PB, BS/BSD, CAL): Was a bubbler and trap test run before the analytical run continued? Comments: _____	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
31. Do re-run results compare to initial analysis (< 35% RPD)? Comments: _____	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
32. Are qualifiers consistent with the data review flowcharts? Comments: _____	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
33. Have non-reportable samples been imported into LIMS and clicked to non-reportable? Comments: _____	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
34. 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"/>
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.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		<input checked="" type="checkbox"/>
37. Does the data set need scanning? <u>Files located at: \\Cuprum\gen_admin\Quality Assurance\Training Master\DOCs</u>	<input type="checkbox"/> YES		<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
38. Date of analyst IDOC/CDOC: <u>7/9/2015</u> IDOC/CDOC within last 12 months?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		<input checked="" type="checkbox"/>
39. Date of analyst's SOP reading: <u>5/23/2016</u> Current SOP revision?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
40. Date of LOD: <u>6/24/16, 7/7/16</u> LOD within last 3 months (within 12 months for MDN)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
41. Date of LOQ: <u>6/24/16, 7/7/16</u> LOQ within last 3 months (within 12 months for MDN)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
42. If MDN samples, date of last MDL study: _____				
43. MDL study within last 12 months?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Data can not be reported without a current IDOC/CDOC, LOD or LOQ.				
Additional Comments:	<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/>



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Lab Number: L1627358

Client: AMEC Foster Wheeler E & I, Inc.

ATTN: Rod Pendleton

Project Name: USDC PENOBSCOT

Project Number: 3616166052

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Sample Delivery Group Information



Sample Delivery Group Form

Laboratory Job number: L1627358

Project Manager: Elizabeth Porta

Review Date: 09/01/2016

Project Number: 3616166052

Project Name: USDC PENOBSCOT

Received: 08/31/2016 10:06

Client Account: AMEC Foster Wheeler E & I, Inc.

Received by: CM/RS

Samples Delivered by: FEDEX

Call Tracker #

Bill Of Laden Yes

Trackingnum 808618918692

Coc Present Present

Container Status Broken

Sample IDs -01 "WQ_1B-C_083016_SW_10" TSS container
rec'd with cap unattached, sample spilled into
cooler.

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt 7

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Present/Intact	Yes	No	4.3 - IR Gun	No	No

LIMS Chain of Custody

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Sep 08 2016, 02:23 pm

Login Number: L1627358

Account: AMEC-ME AMEC Foster Wheeler E & I, Inc. Project: 3616166052

Sample # Client ID Received: 31AUG16 Due Date: 08SEP16
 Mat PR Collected Container

L1627358-01 WQ_1B-C_083016_SW_1 1 S0 30AUG16 13:25 1-Plastic-A1,2-Vial-D
| DPKG-FULL Package Due Date: 08/03/16

DOC-9060,DPKG-FULL,HOLD-WETCHEM

L1627358-02 WQ_2-C_083016_SW_10 1 S0 30AUG16 12:20 1-Plastic-A1,2-Vial-D
| Package Due Date: 08/03/16

DOC-9060,TSS-2540

L1627358-03 WQ_3-L_083016_SW_10 1 S0 30AUG16 11:20 1-Plastic-A1,2-Vial-D
| Package Due Date: 08/03/16

DOC-9060,TSS-2540

L1627358-04 WQ_FTP_083016_SW_10 1 S0 30AUG16 10:20 1-Plastic-A1,2-Vial-D
| Package Due Date: 08/03/16

DOC-9060,TSS-2540

L1627358-05 WQ_EC4_082916_SW_10 1 S0 29AUG16 11:50 1-Plastic-A1,2-Vial-D
| Package Due Date: 08/03/16

DOC-9060,TSS-2540

L1627358-06 CS_15_082916_SW_10 1 S0 29AUG16 14:00 1-Plastic-A1,2-Vial-D
| Package Due Date: 08/03/16

DOC-9060,TSS-2540

L1627358-07 OV02_082916_SW_10 1 S0 29AUG16 17:00 3-Plastic-A1,6-Vial-D
L1627358-07 MS L1627358-07 MSD Package Due Date: 08/03/16

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Sep 08 2016, 02:23 pm

Login Number: L1627358

Account: AMEC-ME AMEC Foster Wheeler E & I, Inc. Project: 3616166052

Sample #	Client ID	Received: 31AUG16 Mat PR Collected	Due Date: 08SEP16 Container
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DOC-9060,MS/MSD,TSS-2540

L1627358-08 OV02_082916_SW_10_D 1 S0 29AUG16 17:00 1-Plastic-A1,2-Vial-D

| Package Due Date: 08/03/16

DOC-9060,TSS-2540

Container Tracking

ALPHA ANALYTICAL LABORATORIES
Container Tracking Report

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1627358-01A Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-01A Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-01A Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-01A Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-01B Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-01B Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-01B Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-01B Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-01C Plastic-Al	INTACT	06-SEP-16		W14-S3-C CUSTODY	Sam Bardsley	W14-S5-D CUSTODY	W14-S5-D CUSTODY	Sam Bardsley
L1627358-01C Plastic-Al	INTACT	01-SEP-16	W13-S2-A CUSTODY	CUSTODY	Roobenso Romain	W14-S3-C CUSTODY	W14-S3-C CUSTODY	Roobenso Romain
L1627358-01C Plastic-Al	INTACT	01-SEP-16	LOGIN	LOGIN	Christina Mazza	CUSTODY	CUSTODY	Christina Mazza
L1627358-02A Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-02A Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-02A Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-02A Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-02B Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-02B Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-02B Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-02B Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-02C Plastic-Al	EMPTY	04-SEP-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1627358-02C Plastic-Al	INTACT	04-SEP-16	CUSTODY	W14-S3-C CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1627358-02C Plastic-Al	INTACT	01-SEP-16	W13-S2-A CUSTODY	CUSTODY	Roobenso Romain	W14-S3-C CUSTODY	W14-S3-C CUSTODY	Roobenso Romain
L1627358-02C Plastic-Al	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-03A Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-03A Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1627358-03A	Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-03A	Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-03B	Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-03B	Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-03B	Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-03B	Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-03C	Plastic-A1	EMPTY	04-SEP-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1627358-03C	Plastic-A1	INTACT	04-SEP-16	CUSTODY	W14-S3-C CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1627358-03C	Plastic-A1	INTACT	01-SEP-16	W13-S2-A CUSTODY	CUSTODY	Roobenso Romain	W14-S3-C CUSTODY	W14-S3-C CUSTODY	Roobenso Romain
L1627358-03C	Plastic-A1	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-04A	Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-04A	Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-04A	Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-04A	Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-04B	Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-04B	Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-04B	Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-04B	Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-04C	Plastic-A1	EMPTY	04-SEP-16	CUSTODY	WETCHEM	Samantha Garner	CUSTODY	CUSTODY	Samantha Garner
L1627358-04C	Plastic-A1	INTACT	04-SEP-16	CUSTODY	W14-S3-C CUSTODY	Samantha Garner	WETCHEM	WETCHEM	Samantha Garner
L1627358-04C	Plastic-A1	INTACT	01-SEP-16	W13-S2-A CUSTODY	CUSTODY	Roobenso Romain	W14-S3-C CUSTODY	W14-S3-C CUSTODY	Roobenso Romain
L1627358-04C	Plastic-A1	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-05A	Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-05A	Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-05A	Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1627358-05A Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-05B Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-05B Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-05B Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-05B Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-05C Plastic-A1	EMPTY	02-SEP-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1627358-05C Plastic-A1	INTACT	02-SEP-16	CUSTODY	W14-S3-C CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-05C Plastic-A1	INTACT	01-SEP-16	W13-S2-A CUSTODY	CUSTODY	Roobenso Romain	W14-S3-C CUSTODY	W14-S3-C CUSTODY	Roobenso Romain
L1627358-05C Plastic-A1	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-06A Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-06A Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-06A Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-06A Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-06B Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-06B Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-06B Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-06B Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-06C Plastic-A1	EMPTY	02-SEP-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1627358-06C Plastic-A1	INTACT	02-SEP-16	CUSTODY	W14-S3-C CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-06C Plastic-A1	INTACT	01-SEP-16	W13-S2-A CUSTODY	CUSTODY	Roobenso Romain	W14-S3-C CUSTODY	W14-S3-C CUSTODY	Roobenso Romain
L1627358-06C Plastic-A1	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-07A Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-07A Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-07A Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-07A Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1627358-07A1 Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-07A1 Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-07A1 Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-07A1 Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-07A2 Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-07A2 Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-07A2 Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-07A2 Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-07B Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-07B Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-07B Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-07B Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-07B1 Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-07B1 Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-07B1 Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-07B1 Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-07B2 Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-07B2 Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-07B2 Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-07B2 Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-07C Plastic-A1	EMPTY	02-SEP-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1627358-07C Plastic-A1	INTACT	02-SEP-16	CUSTODY	W14-S3-C CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-07C Plastic-A1	INTACT	01-SEP-16	W13-S2-A CUSTODY	CUSTODY	Roobenso Romain	W14-S3-C CUSTODY	W14-S3-C CUSTODY	Roobenso Romain
L1627358-07C Plastic-A1	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-07D Plastic-A1	INTACT	06-SEP-16		W14-S3-C CUSTODY	Sam Bardsley	W14-S5-D CUSTODY	W14-S5-D CUSTODY	Sam Bardsley

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1627358-07D	Plastic-A1	INTACT	01-SEP-16	W13-S2-A CUSTODY	CUSTODY	Roobenso Romain	W14-S3-C CUSTODY	W14-S3-C CUSTODY	Roobenso Romain
L1627358-07D	Plastic-A1	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-07E	Plastic-A1	EMPTY	02-SEP-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1627358-07E	Plastic-A1	INTACT	02-SEP-16	CUSTODY	W14-S3-C CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-07E	Plastic-A1	INTACT	01-SEP-16	W13-S2-A CUSTODY	CUSTODY	Roobenso Romain	W14-S3-C CUSTODY	W14-S3-C CUSTODY	Roobenso Romain
L1627358-07E	Plastic-A1	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-08A	Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-08A	Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-08A	Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-08A	Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-08B	Vial-D	INTACT	08-SEP-16	WETCHEM	WETCHEM	Marc Pollard	CUSTODY	WALK-IN CUSTODY	Marc Pollard
L1627358-08B	Vial-D	INTACT	07-SEP-16	CUSTODY	WALK-IN CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-08B	Vial-D	INTACT	01-SEP-16		CUSTODY	Roobenso Romain	WALK-IN CUSTODY	WALK-IN CUSTODY	Roobenso Romain
L1627358-08B	Vial-D	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta
L1627358-08C	Plastic-A1	EMPTY	02-SEP-16	CUSTODY	WETCHEM	Deb Whelan	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Deb Whelan
L1627358-08C	Plastic-A1	INTACT	02-SEP-16	CUSTODY	W14-S3-C CUSTODY	Deb Whelan	WETCHEM	WETCHEM	Deb Whelan
L1627358-08C	Plastic-A1	INTACT	01-SEP-16	W13-S2-A CUSTODY	CUSTODY	Roobenso Romain	W14-S3-C CUSTODY	W14-S3-C CUSTODY	Roobenso Romain
L1627358-08C	Plastic-A1	INTACT	31-AUG-16	LOGIN	LOGIN	Elizabeth Porta	CUSTODY	CUSTODY	Elizabeth Porta

Communications

Call Tracker Report

Call # 87821

Call #: 87821
Call Date: 09/01/16 14:02
Status: NEED
Date: 09/01/16 14:02
Operator: LPORTA
Type: Live

Contact:
Company: AMEC Foster Wheeler E & I, Inc.
Acct #: AMEC-ME
Project #: 3616166052
Client Proj: USDC PENOBSCOT
Login #: L1627358

Call Details

Hi Denise and Rod,

Sample: "WQ_1B-C_083016_SW_10" for the TSS container was rec'd with cap unattached, and the sample spilled into cooler. Unfortunately, we will not be able to run TSS on this sample.

Please let me know if there are any questions.

Thank you,

Liz Porta

Project Manager

Email: eporta@alphalab.com

Direct: 508-844-4124

Main: 508-844-4100

Chain of Custody



CHAIN OF CUSTODY

PAGE 1 OF 2Date Rec'd in Lab: 8/31/16ALPHA Job #: L1627358

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information

Project Name: USDC PONDSCOT

Project Location: WINTERPORT MS

Project #: 3616166052.04.04

Project Manager: ROD PENDLETON

ALPHA Quote #:

Report Information - Data Deliverables
 ADEX EMAIL
Billing Information
 Same as Client info PO #:
Client Information

Client: AMEC FOSTER WHEELER E&I

Address: 511 CONGRESS ST STE 200
PORTLAND ME 04101

Phone: 207-775-5401

Email: ROD.PENDLETON@AMECFW.COM

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due:

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods

Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

Yes No GW1 Standards (Info Required for Metals & EPH with Targets)

Yes No NPDES RGP

Other State /Fed Program _____ Criteria _____

Additional Project Information:

FCD # 80861891
8692

SB - SALT - BRACKISH
FW - FRESH WATER

1 COOLER

ANALYSIS

VOC: 8260 624 524.2

SVOC: ABN PAH

METALS: MCP 13 MCP 14 MCP 15

EPH: RCRA5 RCRA8

VPH: Ranges & Targets Ranges Only

PCB PEST

TPH: Quant Only Fingerprint

DOC - SW 8469060 HSBY
TSS 2450D LP 4PEJ C

SAMPLE INFO

Filtration
 Field
 Lab to do

Preservation
 Lab to do

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	DOC	TSS	Sample Comments	
		Date	Time														
	EB-083016-SW-10	08/30/16	1515	FW	KLB											FB DS/16	
<u>27358-01</u>	<u>WR-16-C-083016-SW-10</u>	<u>08/30/16</u>	<u>1325</u>	<u>SB</u>													
<u>-02</u>	<u>WR-26-083016-SW-10</u>	<u>08/30/16</u>	<u>1220</u>														
<u>-03</u>	<u>WR-32-083016-SW-10</u>	<u>08/30/16</u>	<u>1120</u>														
<u>-04</u>	<u>WR-FTP-083016-SW-10</u>	<u>08/30/16</u>	<u>1020</u>														
<u>-05</u>	<u>WR-ECH-082916-SW-10</u>	<u>8/29/16</u>	<u>1150</u>														
<u>-06</u>	<u>ES-15-082916-SW-10</u>	<u>8/29/16</u>	<u>1400</u>														
<u>-07</u>	<u>OV02-082916-SW-10</u>	<u>8/29/16</u>	<u>1700</u>														
<u>-08</u>	<u>OV02-082916-SW-DUP</u>	<u>8/29/16</u>	<u>1700</u>														
<u>-09</u>	<u>OV02-082916-SW-MS</u>	<u>8/29/16</u>	<u>1700</u>														

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type

Preservative

A P

D N

Relinquished By:	Date/Time	Received By:	Date/Time
<u>KENDRA BAVOR</u>	<u>08/30/16 1730</u>	<u>Guo AAL</u>	<u>8/31/16</u>

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 8/31/16

ALPHA Job #: 11627358

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information

Project Name: USDC PENOBSCOT

Project Location: WINTHROP ME

Project #: 3616166052, 04.04

Project Manager: ROD PONDLTON

ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: AMEC FOSTER WHEELER ES&I

Address: 511 CONGRESS ST STE200
PORTLAND ME 04101

Phone: 207-775-5401

Email: ROD.PONDLTON@AMECFW.COM

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 1 cooler

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods

Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

Yes No GW1 Standards (Info Required for Metals & EPH with Targets)

Yes No NPDES RGP

Other State /Fed Program _____ Criteria _____

Additional Project Information:

FED UX # 8086 1891
0692

SB - SALT - BRACKISH

ANALYSIS	VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 824 <input type="checkbox"/> 524.2
	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH
	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15
	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PP13
	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only
	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only
	PCB <input type="checkbox"/> PEST
	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint

DOL - SW 846/9060 40 mL Ag
TSS 2450 LP 4.2% C

SAMPLE INFO

Filtration
 Field
 Lab to do

Preservation
 Lab to do

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
<u>27358-01</u>	<u>0V02 - 082916 - SW - MD</u>	<u>08/29/16</u>	<u>1700</u>	<u>SB</u>	<u>KCB/ID</u>

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
<u>KENDRA BAVAR</u>	<u>8/30/16 1730</u>	<u>[Signature]</u>	<u>8/31/16</u>

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO. 01-01 (rev. 12-Mar-2012)

FedEx NEW Packages
Express US AIRMAIL

FedEx
Tracking
Number

8086 1891 8692

ORIGIN ID: BGRA (207) 828-3627
AMEC FOSTER WHEELER

511 CONGRESS ST
PORTLAND, ME 041013482
UNITED STATES US

SHIP DATE: 30AUG16
ACTWGT: 55.20 LB
CAD: /POS1721
DIMS: 25x14x14 IN

BILL SENDER

1 From
Date 8-30-16

Sender's Name K. BAVOK Phone 207 775 5401

Company AMEC FOSTER WHEELER

Address 511 CONGRESS ST 5R 200

City PORTLAND State ME ZIP 04101

2 Your Internal Billing Reference 361616052.0404

3 To Recipient's Name LIZ PORTER Phone 508 844 4124

Company ALPHA ANALYTICA

Address 6 WALKUP DRIVE
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Unit 1
Use this line for the HOLD location address or for continuation of your shipping address.

City WESTBOROUGH State MA ZIP 01581

HOLD Weekday
FedEx location address
REQUIRED NOT available for
FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

- 4
- 5
- 6 S No SA No No Pack Obs Does No Dangerous or placed in a 7 Pay Send Total Packa

TO LIZ PORTER
ALPHA ANANTICA
WALK UP DR

WESTBOROUGH MA 01581

(111) 111-1111
IMU: PO: REF: DEPT:



WED - 31 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 8086 1891 8692
0200

XE BBFA

01581
MA-US BOS



8086 1891 8692

CUSTODY SEAL

Date 8-30-16
Signature [Signature]

CUSTODY SEAL

Date 8-30-16
Signature [Signature]



Align FedEx Pouch Here

Do Not Lift Using This Tag

Wet Chemistry

Total Suspended Solids Analysis

Sample Raw Data

ALPHA ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT
 TOTAL SUSPENDED SOLIDS
 filter lot pall t60808

Last Change 3/4/13
 File tss.xlt

2540D (PPB)

2540D

Get Samples

Save to LIMS

Sample Number: _____ oven C
 in 104 04:50
 Client: _____ out 8:40
 in 9:15
 Analysis: T S S out 9:45
 Method: SM 2540D

Product: TSS-2540
 Analyte: Solids, Total Suspended
 Analysis Date: 9/2/2016 4:30
 Technician: DW
 Work group: WG928360
 RDL: 5.0 mg/l

METHODS

	Sample Number	Symbol	Tare Weight (gm)	Sample Volume (ml)	Net Weight(1) (gm)	Net Weight(2) (gm)	Net Weight(3) (gm)	Net Weight(4) (gm)	RDL MULT.	RESULT mg/l
BLANK	WG928360-1	61	0.4311	1000	0.4294	0.4297				0.00
DUP	WG928360-2	62	0.4281	1100	0.4323	0.4325				3.82
SAMP	L1627358-05	63	0.4294	1150	0.4579	0.4579				24.78
SAMP	L1627358-06	64	0.4297	1120	0.4878	0.4881				51.88
SAMP	L1627358-07	65	0.4274	1105	0.4327	0.4328				4.80
SAMP	L1627358-08	66	0.4282	1100	0.4327	0.4328				4.09
	L1627533-01	67	0.4323	1090	0.4373	0.4371				4.40
	L1627533-02	68	0.4304	1080	0.4406	0.4411				9.44
	L1627550-01	69	0.4306	1080	0.4508	0.4513				18.70
	L1627550-02	70	0.432	1095	0.4410	0.4414				8.22
	L1627550-03	71	0.4327	1135	0.4386	0.4383				4.93
	L1627550-04	72	0.4305	1085	0.4476	0.4479				15.76
			DUP-TARE:	0.43230	0.42810	0.00420				9715.48
			Sample-TARE:	0.43270	0.42740	0.00530				12248.67
			DUP weight (g) on the filter:			0.00420				
			Sample weight (g) on the filter:			0.00530				
			Ave weight (g) on the filter:			0.00475				
			DUP%:			88.4				
			Sample%:			111.6				

ALPHA ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT

Last Change 3/4/13
 File tss.xlt

2540D (PPB)

TOTAL SUSPENDED SOLIDS
 Filter Lot#: Pall T60808

2540D

Sample Number: In 104: 09/04/16 17:10
 Out: 09/06/16 06:00
 Client: In: 08:50
 Out: 09:50

Product: TSS-2540
 Analyte: Solids, Total Suspended
 Analysis Date: 9/4/2016 14:25
 Technician: SG
 Work group: WG928893
 RDL: 5.0 mg/l

Get Samples

Analysis: T S S
 Method: SM 2540D

Save to LIMS

METHODS

3

	Sample Number	Symbol	Tare Weight (gm)	Sample Volume (ml)	Net Weight(1) (gm)	Net Weight(2) (gm)	Net Weight(3) (gm)	Net Weight(4) (gm)	RDL MULT.	RESULT mg/l	
BLANK	WG928893-1	39	0.4391	1000	0.4378	0.4377				0.00	
DUP	WG928893-2	40	0.4393	10	0.4777	0.4781			100	3840.00	L1627351-01
	L1627281-01	41	0.4387	1030	0.5044	0.5041				63.50	
	L1627281-02	42	0.4373	1030	0.4424	0.4427				4.95	
	L1627351-01	43	0.4373	10	0.4702	0.4697			100	3240.00	
SAMP	L1627358-02	44	0.4394	1130	0.4474	0.4471				6.81	
SAMP	L1627358-03	45	0.4398	1140	0.4515	0.4516				10.26	
SAMP	L1627358-04	46	0.4383	1100	0.4503	0.4508				10.91	
	L1627403-01	47	0.4366	1120	0.4381	0.4383				1.34	
	L1627466-01	118	0.4379	20	0.4501	0.4499			50	600.00	
SAMP	L1627751-01	49	0.4388	1130	0.4402	0.4407				1.24	
SAMP	L1627751-02	50	0.4394	1070	0.4400	0.4395				0.09	
			DUP-TARE:		0.47770	0.43930	0.03840				
			Sample-TARE:		0.46970	0.43730	0.03240				
			DUP weight (g) on the filter:				0.03840				
			Sample weight (g) on the filter:				0.03240				
			Ave weight (g) on the filter:				0.03540				
			DUP%:				108.5				
			Sample%:				91.5				

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 07 2016, 04:13 pm

Work Group: WG928360 for Department: 7 Wet Chemistry

Created: 02-SEP-16 Due: Operator: dw

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1627358-05	WQ_EC4_082916_SW_10	S TSS-2540	WATER	DONE	U	0905	0908	S0	Plastic-A1
L1627358-06	CS_15_082916_SW_10	S TSS-2540	WATER	DONE	U	0905	0908	S0	Plastic-A1
L1627358-07	OV02_082916_SW_10	S TSS-2540	WATER	DONE	U	0905	0908	S0	Plastic-A1
L1627358-08	OV02_082916_SW_10_DU	S TSS-2540	WATER	DONE	U	0905	0908	S0	Plastic-A1
L1627533-01	WRLP-IP-1	S TSS-2540	WATER	DONE	U	0908	0906	1B	Plastic-A1
L1627533-02	WRLP-IP-2	S TSS-2540	WATER	DONE	U	0908	0906	1B	Plastic-A1
L1627550-01	OUTFAL-002-WW1-09011	S TSS-2540	WATER	DONE	U	0908	0913	1A	Plastic-A1
L1627550-02	OUTFAL-010-WW1-09011	S TSS-2540	WATER	DONE	U	0908	0913	1A	Plastic-A1
L1627550-03	OUTFAL-016-WW1-09011	S TSS-2540	WATER	DONE	U	0908	0913	1A	Plastic-A1
L1627550-04	OUTFAL-022-WW1-09011	S TSS-2540	WATER	DONE	U	0908	0913	1A	Plastic-A1
WG928360-1	Laboratory Method Bl	S TSS-2540	WATER	DONE	U				
WG928360-2	Duplicate Sample	S TSS-2540	WATER	DONE	U				

Comments:

WG928360-2 L1627358-07

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 07 2016, 04:13 pm

Work Group: WG928893 for Department: 7 Wet Chemistry

Created: 04-SEP-16 Due: Operator: SG

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1627281-01	OUTFALL 001	S TSS-2540	WATER	DONE	U	0906	0908	S0	Plastic-A1
L1627281-02	OUTFALL 002	S TSS-2540	WATER	DONE	U	0906	0908	S0	Plastic-A1
L1627351-01	CW-1	S TSS-2540	WATER	DONE	U	0907	0908	S0	Plastic-A1
L1627358-02	WQ_2-C_083016_SW_10	S TSS-2540	WATER	DONE	U	0906	0908	S0	Plastic-A1
L1627358-03	WQ_3-L_083016_SW_10	S TSS-2540	WATER	DONE	U	0906	0908	S0	Plastic-A1
L1627358-04	WQ_FTP_083016_SW_10	S TSS-2540	WATER	DONE	U	0906	0908	S0	Plastic-A1
L1627403-01	G1_SPDES_E-03B_08311	S TSS-2540	WATER	DONE	U	0907	0908	S0	Plastic-A1
L1627466-01	WEIR EFFLUENT	S TSS-2540	WATER	DONE	U	0908	0909	S0	Plastic-A1
L1627751-01	20160902 INFLUENT	S TSS-2540	WATER	DONE	U	0909	0906	1A	Plastic-A1
L1627751-02	20160902 EFFLUENT	S TSS-2540	WATER	DONE	U	0909	0906	1A	Plastic-A1
WG928893-1	Laboratory Method Bl	S TSS-2540	WATER	DONE	U				
WG928893-2	Duplicate Sample	S TSS-2540	WATER	DONE	U				

Comments:

WG928893-2 L1627351-01

Organic Carbon Analysis

Sequence Logs

DATE: WED 090716	STOCK STDS ID INFO:	WORKING STDS ID INFO:
ANALYST: <u>MS</u>	LOT #s:	LOT #'s:
CURVE INFO:	2000 PPM CURVE SLN: TDC-050916-C	2 PPM ICV: TDC-090716-ICV
CURVE IN USE: 052516 TR-4	2000 PPM ICV/LCS/SPK SLN: TDC-050916-W	2 PPM LCS: TDC-090716-LCS
	4000 PPM IC CK STD SLN: TDC-060716-W	4 PPM SPK: TDC-090716-SPK
	EV 400	10 PPM IC CK STD: TDC-090616-IC

POSITION	SAMPLE	DIL X	PH	COMMENTS	POSITION	SAMPLE	DIL X	PH	COMMENTS
1	DC				26	27431-4	1		
2	ICV 20ppm				27	-5	1		
3	ICV 4ppm				28	-6	1		
4	ICV				29	-7	1		
5	MS				30	-8	1		
6	LCS 20ppm				31	-9	1		
7	27358.1 DC	1	2	Field filtered	32	-10	1		
8	2	2	2		33	-11	1		
9	3	5	2		34	-12	1		
10	4	5	2		35	-13	1		
11	5	5	2		36	CCV 2ppm			
12	6	5	2		37	CCV			
13	7	1	2		38	-14	1		
14	8	1	2		39	-4 DC	1		
15	CCV 2ppm				40	-5 MS	1		
16	CCV				41	CCV			
17	27358.2	1	2		42	CCV			
18	3	1	2						
19	4	1	2						
20	5	1	2						
21	6	1	2						
22	7 deep	1	1						
23	7 SPK	2	2	= 8ppm					
24	CCV 2ppm								
25	CCV								

Document Type: Form

Pre-Qualtrax Document ID: N/A

Sample Raw Data

ALPHA ANALYTICAL LABS
BACTERIA DEPARTMENT
 DISSOLVED ORGANIC CARBON

Last Change 03/4/13 GFF File TOC/DOC.xlt

Sample Number: _____
 Client: _____
 Analysis: **DOC**
 TOC Instrument ID: 4
 Method: EPA-9060

Product: **DOC-9060**
 Analyte: **Dissolved Organic Carbon,**
 Analysis Date: 9/7/2016 7:17
 Technician: dw
 Work group: wg929404
 MDL: 1.0 mg/l
 Page Number:
 Preparation Date: 9/7/2016 7:17

LCS Conc. (ppm):
 Spike Conc(ppm):

	Sample Number	COMMENTS	MDL Multiplier	RESULT mg/L	
DUP	WG929404-3		1	6.90	L1627358-07
SAMP	L1627358-01	DOCS FF	1	6.76	
SAMP	L1627358-02		1	1.34	
SAMP	L1627358-03		1	0.23	
SAMP	L1627358-04		1	0.17	
SAMP	L1627358-05		1	0.41	
SAMP	L1627358-06		1	0.19	
SAMP	L1627358-07		1	7.36	
SAMP	L1627358-08		1	6.97	
BLANK	WG929404-1		1	0.00	

	Sample	Comments	Spike Conc	Spike Result	% Rec
MS	WG929404-4		8	15.6	103
LCS	WG929404-2		2	1.99	100

L16273

Date of Creation 1:50:02 PM 5/25/2016
 User dw
 System TOC-VW

Cal. Curve

Sample Name: 05252016 toc-4 curve
 Sample ID:
 Object ID: OA-103073-10101000-133A00D1BDD8-0000
 Cal. Curve: 05252016 toc-4 curve.cal
 Status Completed
 Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.156	2500uL	1	*****	E	5/25/2016 12:00:56
2	6.706	2500uL	1	*****		5/25/2016 12:05:53
3	6.693	2500uL	1	*****		5/25/2016 12:10:46

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 6.700
 SD Area 0.00919
 CV Area 0.14%
 Vial 1
 WetChem Oxid. 1.5mL

Conc: 0.2000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	46.95	2500uL	1	*****	E	5/25/2016 12:21:02
2	48.30	2500uL	1	*****		5/25/2016 12:26:05
3	49.49	2500uL	1	*****		5/25/2016 12:31:04

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 48.90
 SD Area 0.8415
 CV Area 1.72%
 Vial 2
 WetChem Oxid. 1.5mL

Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	84.18	2500uL	1	*****		5/25/2016 12:41:23
2	85.60	2500uL	1	*****		5/25/2016 12:46:36

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 84.89
 SD Area 1.004
 CV Area 1.18%
 Vial 3
 WetChem Oxid. 1.5mL

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	155.5	2500uL	1	*****		5/25/2016 12:57:13
2	157.0	2500uL	1	*****		5/25/2016 1:02:17 F

TOC-4
 curve
 052516

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 156.3
 SD Area 1.061
 CV Area 0.68%
 Vial 4
 WetChem Oxid. 1.5mL

Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	314.5	2500uL	1	*****		5/25/2016 1:13:15 P
2	315.7	2500uL	1	*****		5/25/2016 1:18:33 P

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 315.1
 SD Area 0.8485
 CV Area 0.27%
 Vial 5
 WetChem Oxid. 1.5mL

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	724.5	2500uL	1	*****		5/25/2016 1:29:50 P
2	727.8	2500uL	1	*****		5/25/2016 1:33:55 P

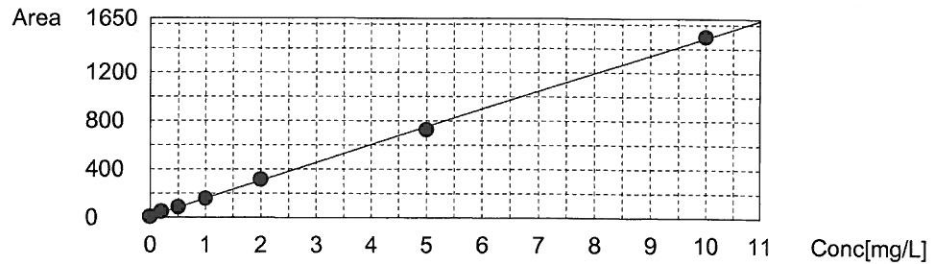
Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 726.2
 SD Area 2.333
 CV Area 0.32%
 Vial 6
 WetChem Oxid. 1.5mL

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1499	2500uL	1	*****		5/25/2016 1:45:22 P
2	1501	2500uL	1	*****		5/25/2016 1:50:02 P

Acid Add. 0.000%
 Sp. Time 180.0sec
 Mean Area 1500
 SD Area 1.414
 CV Area 0.09%
 Vial 7
 WetChem Oxid. 1.5mL

Slope: 148.0
 Intercept 10.11
 r^2 0.9995
 r 0.9998
 Zero Shift No



Instr.Information

System TOC-VW
Instrument Options TOC/ASI/

Sample

Sample Name: di
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

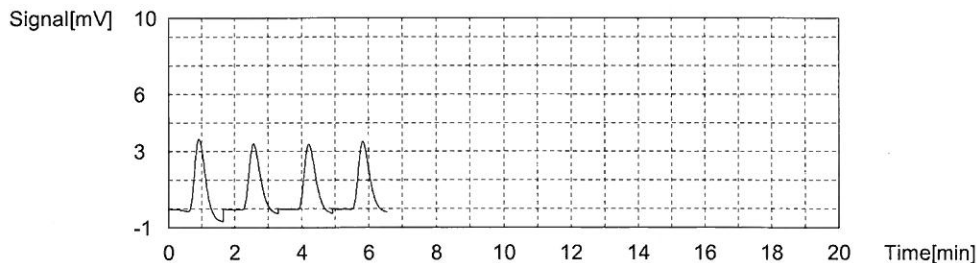
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.01066mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.017	-0.00736mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 6:21:34 AM
2	8.428	-0.01134mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 6:27:01 AM
3	8.200	-0.01288mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 6:32:23 AM
4	8.466	-0.01108mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 6:37:44 AM

Mean Area 8.528
Mean Conc. -0.01066mg/



Sample

Sample Name: ic ck std 10ppm
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02779mg/L

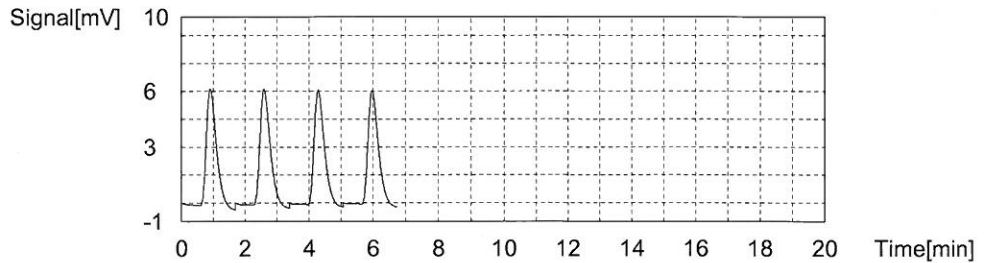


1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.49	0.02963mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 6:48:26 AM
2	14.41	0.02909mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 6:54:30 AM
3	13.95	0.02598mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 7:00:25 AM
4	14.02	0.02645mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 7:06:21 AM

Mean Area 14.22
 Mean Conc. 0.02779mg/L



Sample

Sample Name: icv 2ppm
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

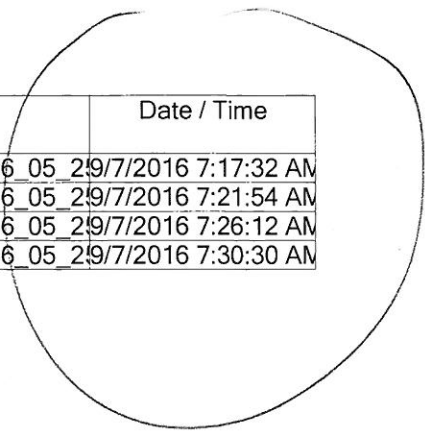
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.022mg/L



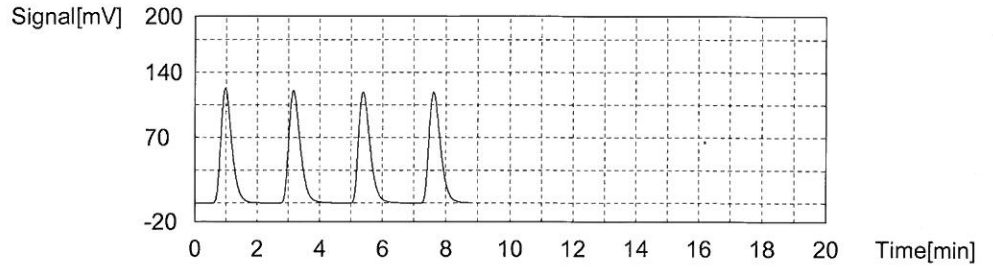
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	307.6	2.010mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 7:17:32 AM
2	310.4	2.029mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 7:21:54 AM
3	309.6	2.024mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 7:26:12 AM
4	309.8	2.025mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 7:30:30 AM



Mean Area 309.4
Mean Conc. 2.022mg/L



Sample

Sample Name: icb
Sample ID:
Origin: toc doc 4 reps method.met
Status Completed
Chk. Result

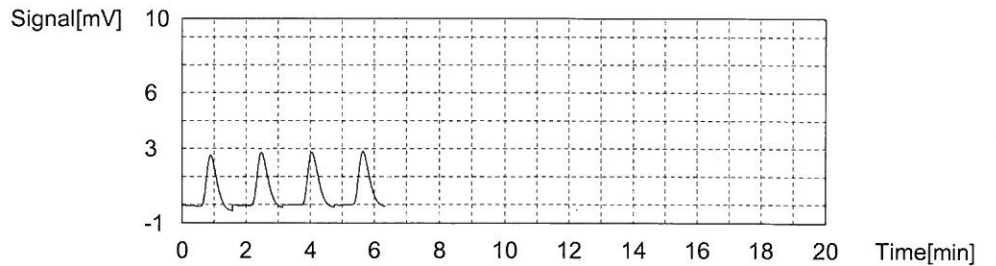
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02383mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.346	-0.02541mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 7:41:06 AM
2	6.622	-0.02354mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 7:46:16 AM
3	6.665	-0.02325mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 7:51:35 AM
4	6.686	-0.02311mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 7:56:53 AM

Mean Area 6.580
Mean Conc. -0.02383mg/



Sample

Sample Name: mb
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.01935mg/L

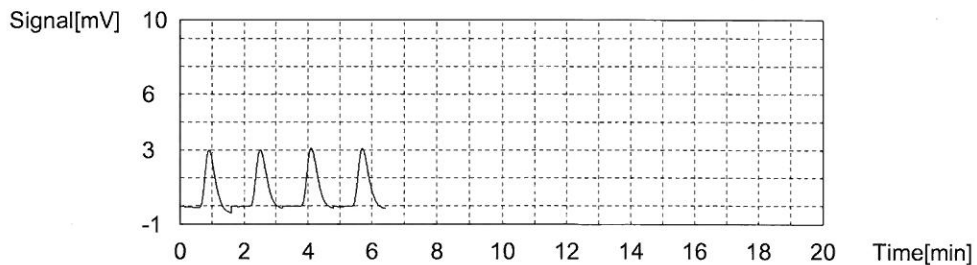
0

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.164	-0.01988mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 8:07:30 AM	
2	7.125	-0.02014mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 8:12:49 AM	
3	7.328	-0.01877mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 8:18:03 AM	
4	7.350	-0.01862mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 8:23:22 AM	

Mean Area 7.242
 Mean Conc. -0.01935mg/



Sample

Sample Name: lcs 2ppm
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.991mg/L

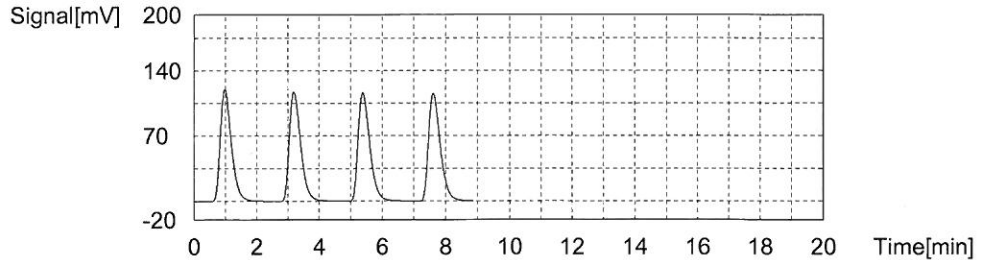
1.99

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	302.0	1.973mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 8:34:35 AM
2	304.8	1.991mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 8:38:53 AM
3	306.0	2.000mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 8:43:12 AM
4	306.3	2.002mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 8:47:31 AM

Mean Area 304.8
 Mean Conc. 1.991mg/L



Sample

Sample Name: 27358-01 doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.756mg/L

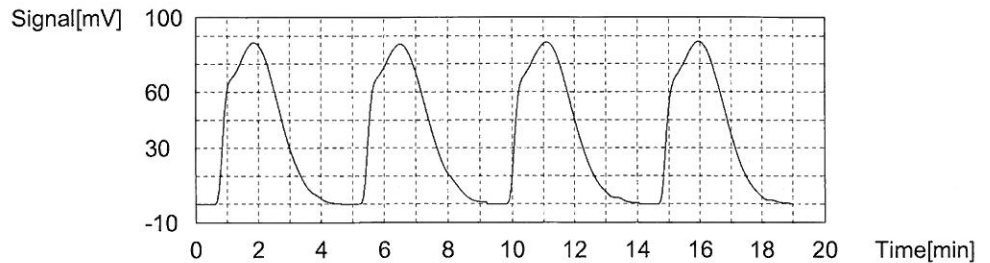
6.76

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	991.5	6.632mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 9:04:42 AM
2	996.7	6.667mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 9:12:57 AM
3	1021	6.831mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 9:20:10 AM
4	1030	6.892mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 9:27:07 AM

Mean Area 1010
 Mean Conc. 6.756mg/L



Sample

Sample Name: 27358-02 2x doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

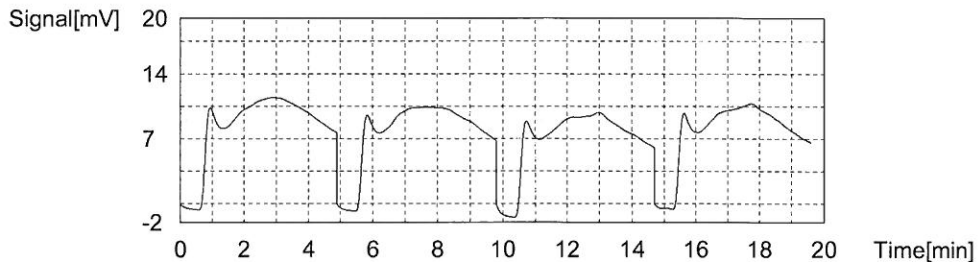
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9636mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	157.1	0.9933mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 9:41:02 AM
2	154.9	0.9785mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 9:48:57 AM
3	147.1	0.9258mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 9:57:05 AM
4	151.7	0.9568mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 10:06:28 AM

Mean Area 152.7
 Mean Conc. 0.9636mg/L



Sample

Sample Name: 27358-03 5x doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

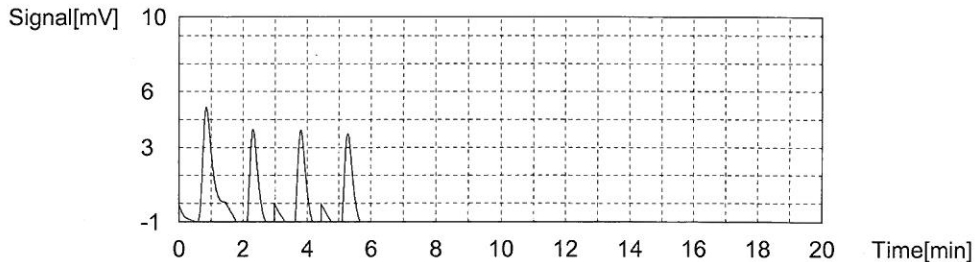
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00488mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.42	0.00888mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 10:16:58 A	
2	10.79	0.00463mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 10:23:06 A	
3	10.59	0.00327mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 10:28:26 A	
4	10.51	0.00273mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 10:34:16 A	

Mean Area 10.83
 Mean Conc. 0.00488mg/L



Sample

Sample Name: 27358-04 5x doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

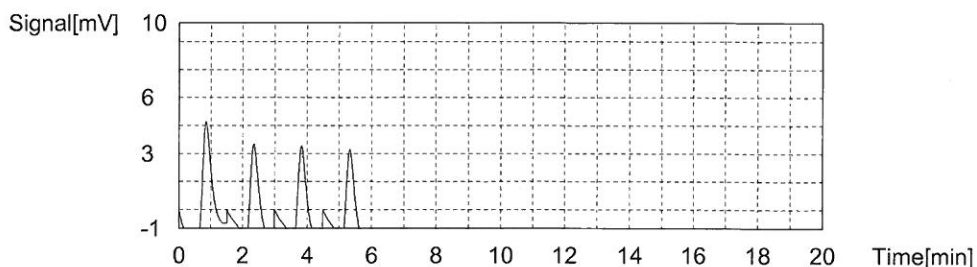
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.00158mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.56	0.00983mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 10:44:46 A	
2	9.471	-0.00429mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 10:50:33 A	
3	9.471	-0.00429mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 10:56:19 A	
4	8.987	-0.00756mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 11:02:09 A	

Mean Area 9.872
Mean Conc. -0.00158mg/



Sample

Sample Name: 27358-05 5x doc
Sample ID:
Origin: toc doc 4 reps method.met
Status: Completed
Chk. Result

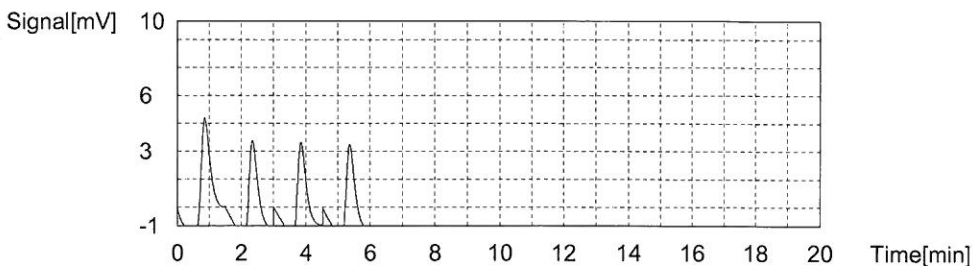
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00203mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.32	0.00821mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 11:12:40 A
2	10.41	0.00206mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 11:18:20 A
3	10.06	-0.00031mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 11:24:02 A
4	9.833	-0.00184mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 11:29:29 A

Mean Area 10.41
Mean Conc. 0.00203mg/L



Sample

Sample Name: 27538-06 5x doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

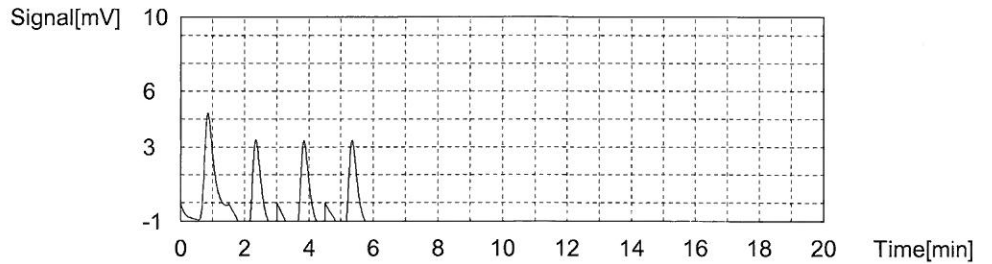
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00040mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.96	0.00577mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 11:40:01 A
2	10.01	-0.00065mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 11:45:59 A
3	10.09	-0.00011mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 11:51:47 A
4	9.598	-0.00343mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 11:57:39 A

Mean Area 10.16
 Mean Conc. 0.00040mg/L



Sample

Sample Name: 27358-07 doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.357mg/L

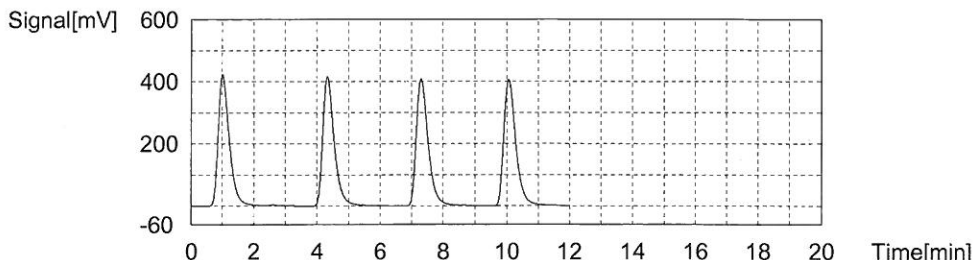
1. Det

Anal.: NPOC

7.36

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1087	7.277mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29/7/2016 12:09:59 P	
2	1097	7.345mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29/7/2016 12:15:03 P	
3	1100	7.365mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29/7/2016 12:21:26 P	
4	1111	7.439mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29/7/2016 12:27:57 P	

Mean Area 1099
 Mean Conc. 7.357mg/L



Sample

Sample Name: 27358-08 doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.966mg/L

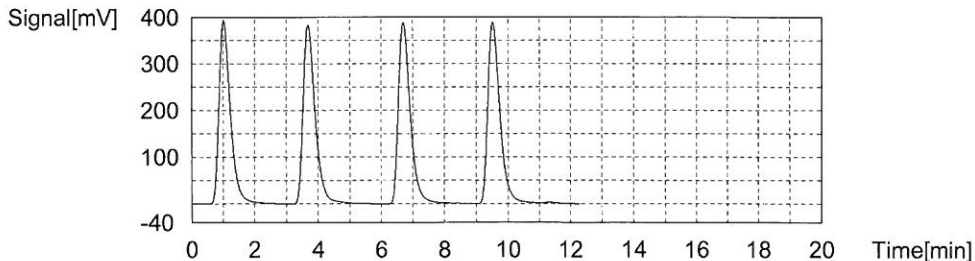
6.97

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1017	6.804mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29/7/2016 12:39:36 P	
2	1036	6.933mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29/7/2016 12:46:13 P	
3	1041	6.966mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29/7/2016 12:51:18 P	
4	1070	7.162mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29/7/2016 12:57:15 P	

Mean Area 1041
 Mean Conc. 6.966mg/L



Sample

Sample Name: ccv 2ppm
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

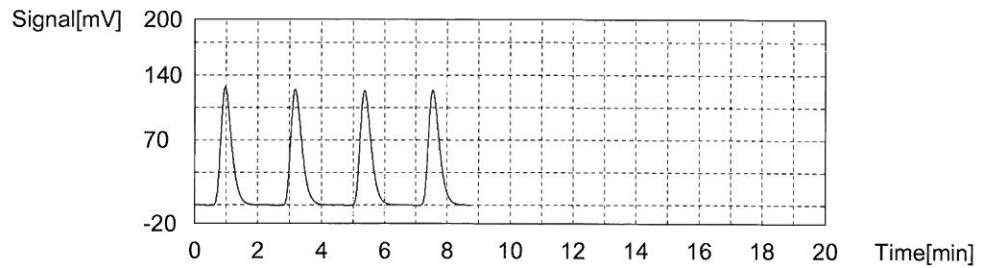
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.056mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	315.5	2.064mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 1:14:31 PM	
2	313.0	2.047mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 1:18:49 PM	
3	313.9	2.053mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 1:23:06 PM	
4	315.3	2.062mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 1:27:24 PM	

Mean Area 314.4
 Mean Conc. 2.056mg/L



Sample

Sample Name: ccb
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00638mg/L

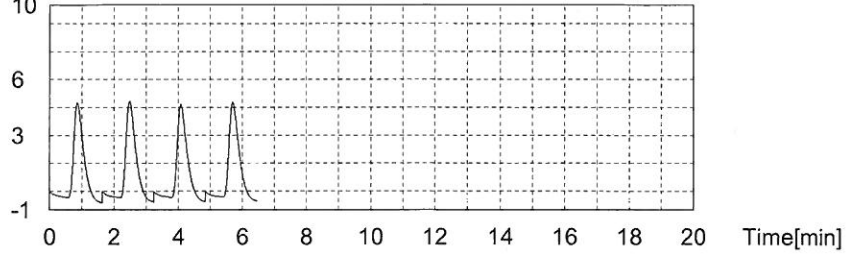
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.21	0.00746mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 1:38:03 PM
2	11.01	0.00611mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 1:43:11 PM
3	10.77	0.00449mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 1:48:20 PM
4	11.21	0.00746mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 1:53:14 PM

Mean Area 11.05
 Mean Conc. 0.00638mg/L

Signal[mV] 10



Sample

Sample Name: 27358--02 1x doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.335mg/L

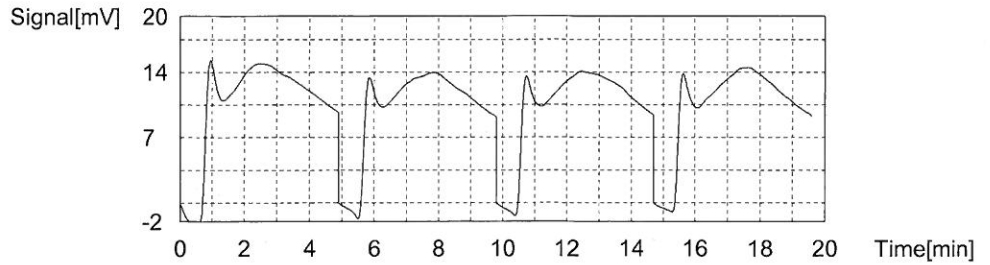
1.34

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	224.1	1.446mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 2:07:08 PM
2	203.6	1.308mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 2:15:30 PM
3	201.5	1.293mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 2:24:31 PM
4	201.2	1.291mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 2:33:25 PM

Mean Area 207.6
Mean Conc. 1.335mg/L



Sample

Sample Name: 27358-03 1x doc
Sample ID:
Origin: toc doc 4 reps method.met
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2340mg/L

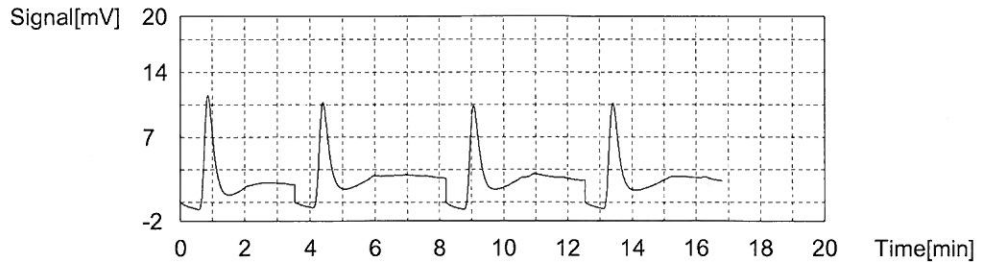
0.23

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.39	0.1776mg/L	2500uL		1	05252016 toc-4 curve.2016_05_29	7/2016 2:45:58 PM
2	49.69	0.2675mg/L	2500uL		1	05252016 toc-4 curve.2016_05_29	7/2016 2:52:44 PM
3	48.14	0.2570mg/L	2500uL		1	05252016 toc-4 curve.2016_05_29	7/2016 2:59:10 PM
4	44.74	0.2340mg/L	2500uL		1	05252016 toc-4 curve.2016_05_29	7/2016 3:05:31 PM

Mean Area 44.74
Mean Conc. 0.2340mg/L



Sample

Sample Name: 27358-04 1x doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1688mg/L

0.17

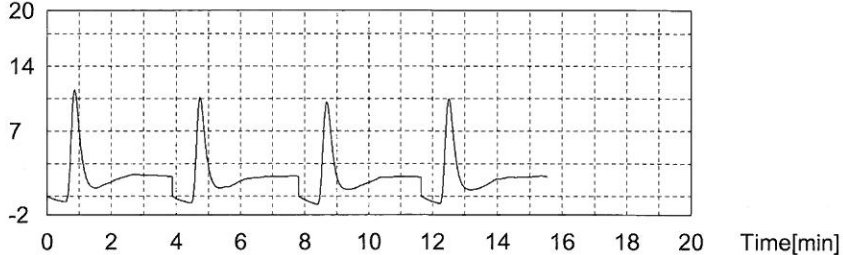
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.71	0.1865mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 3:18:25 PM
2	35.27	0.1701mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 3:24:27 PM
3	33.68	0.1593mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 3:30:23 PM
4	33.66	0.1592mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 3:36:22 PM

Mean Area 35.08
 Mean Conc. 0.1688mg/L

Signal[mV] 20



Sample

Sample Name: 27358-05 1x doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4074mg/L

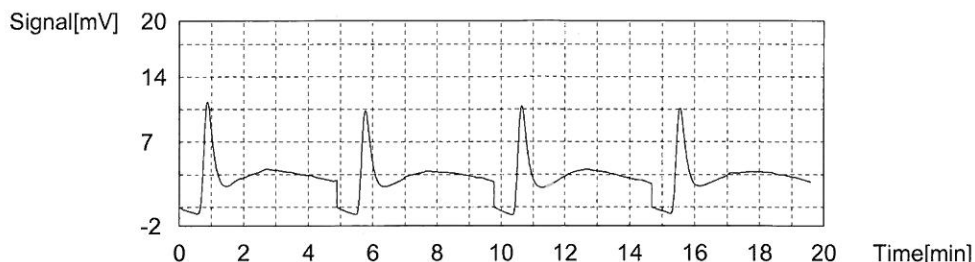
0.41

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	71.16	0.4126mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 3:50:17 PM	
2	69.70	0.4027mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 3:57:31 PM	
3	72.00	0.4183mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 4:04:30 PM	
4	68.70	0.3960mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 4:11:30 PM	

Mean Area 70.39
 Mean Conc. 0.4074mg/L



Sample

Sample Name: 27358-06 1x doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1936mg/L

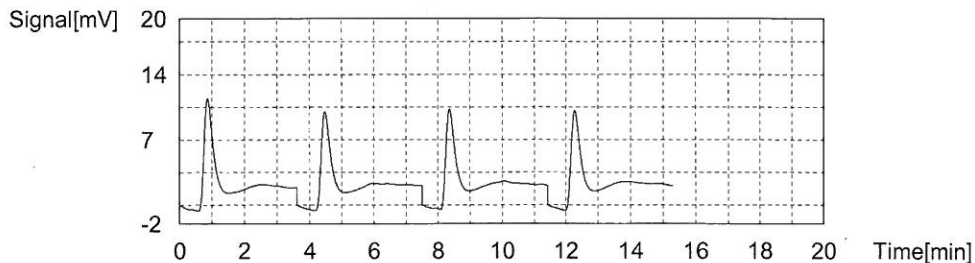
0.19

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.39	0.1844mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 4:24:07 PM	
2	37.63	0.1860mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 4:30:16 PM	
3	39.26	0.1970mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 4:36:17 PM	
4	40.74	0.2070mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 4:42:14 PM	

Mean Area 38.76
 Mean Conc. 0.1936mg/L



Sample

Sample Name: 27358-07 dup doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.902mg/L

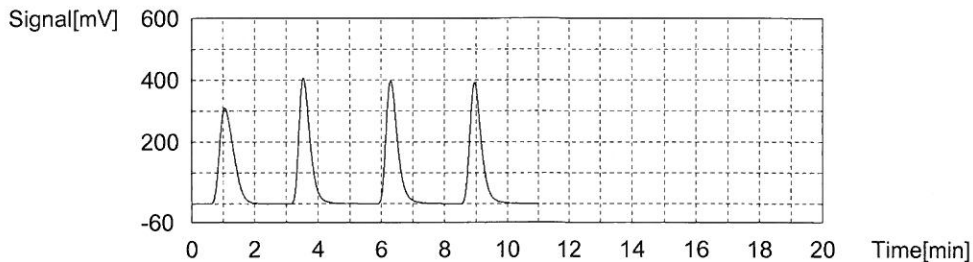
6.90

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1004	6.716mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 4:53:47 PM
2	1030	6.892mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 5:00:02 PM
3	1041	6.966mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 5:04:46 PM
4	1051	7.034mg/L	2500uL	1	1	05252016 toc-4 curve.2016_05_29	9/7/2016 5:11:06 PM

Mean Area 1032
 Mean Conc. 6.902mg/L



Sample

Sample Name: 27358-07 spk 8ppm 2x doc
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.821mg/L

15.4
~~15.8~~

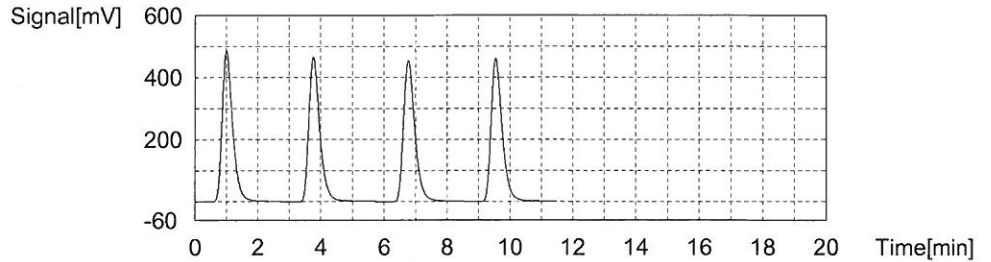
24

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1167	7.818mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 5:22:52 PM	
2	1159	7.764mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 5:27:57 PM	
3	1168	7.825mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 5:34:13 PM	
4	1176	7.879mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 5:39:11 PM	

Mean Area 1168
 Mean Conc. 7.821mg/L



Sample

Sample Name: ccv 2ppm
 Sample ID:
 Origin: toc doc 4 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.161mg/L

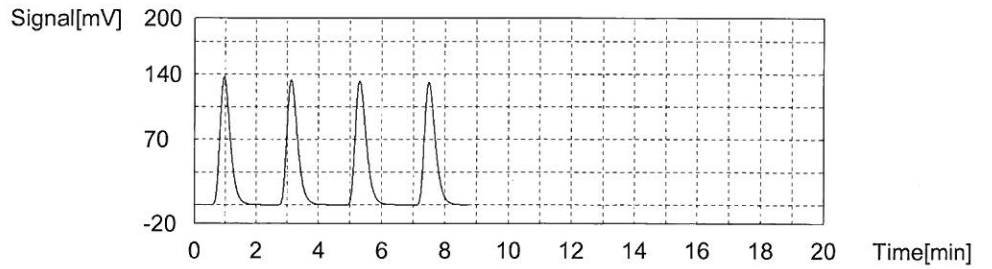
J

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	330.5	2.165mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 6:12:59 PM	
2	329.5	2.158mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 6:17:27 PM	
3	330.5	2.165mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 6:21:45 PM	
4	328.9	2.154mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 6:26:03 PM	

Mean Area 329.9
Mean Conc. 2.161mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: toc doc 4 reps method.met
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02584mg/L

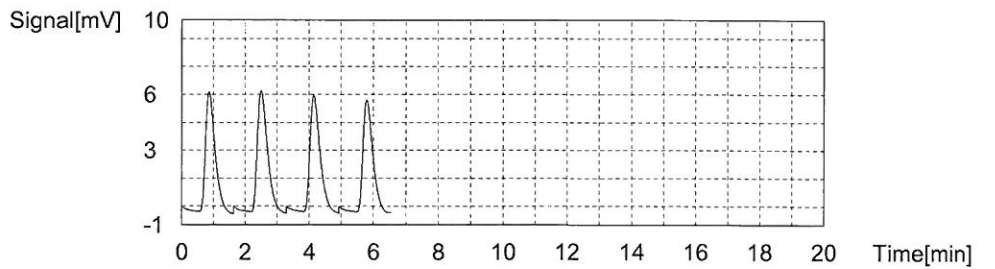


1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.19	0.02760mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 6:36:42 PM
2	14.64	0.03064mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 6:41:37 PM
3	14.01	0.02638mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 6:46:31 PM
4	12.88	0.01875mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 6:51:26 PM

Mean Area 13.93
Mean Conc. 0.02584mg/L



Sample

Sample Name: 27431-4
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.660mg/L

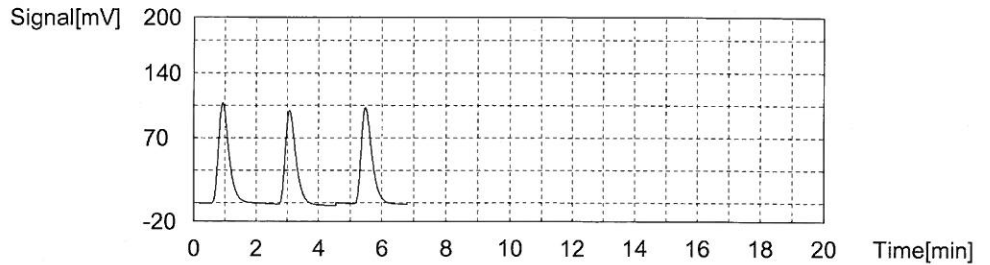
1.66

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	258.5	1.679mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 7:28:19 PM	
2	245.6	1.591mg/L	2500uL	1	E	05252016 toc-4 curve.2016_05_29/7/2016 7:32:54 PM	
3	252.9	1.641mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/7/2016 7:37:15 PM	

Mean Area 255.7
 Mean Conc. 1.660mg/L



Sample

Sample Name: 27431-5
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.628mg/L

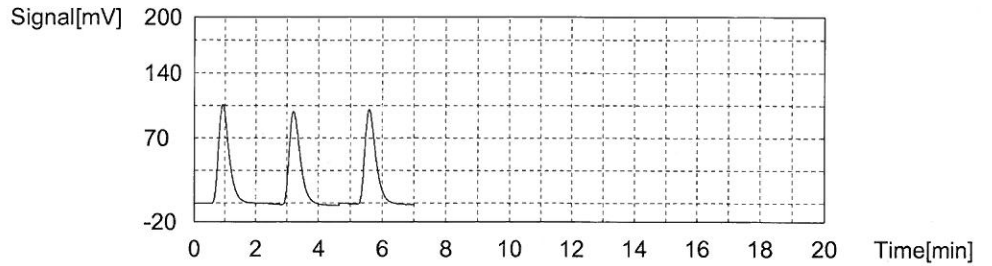
1.63

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	263.4	1.712mg/L	2500uL	1	E	05252016 toc-4 curve.2016_05_29	7/2016 7:48:18 PM
2	249.1	1.615mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 7:52:46 PM
3	252.8	1.640mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 7:57:11 PM

Mean Area 251.0
 Mean Conc. 1.628mg/L



Sample

Sample Name: 27431-6
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.685mg/L

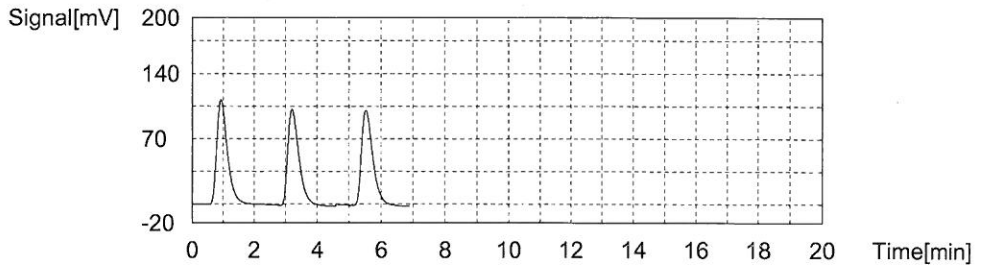
1.69

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	276.9	1.803mg/L	2500uL	1	E	05252016 toc-4 curve.2016_05_29	7/2016 8:08:13 PM
2	259.7	1.687mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 8:12:37 PM
3	259.2	1.683mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 8:17:01 PM

Mean Area 259.4
 Mean Conc. 1.685mg/L



Sample

Sample Name: 27431-7
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.247mg/L

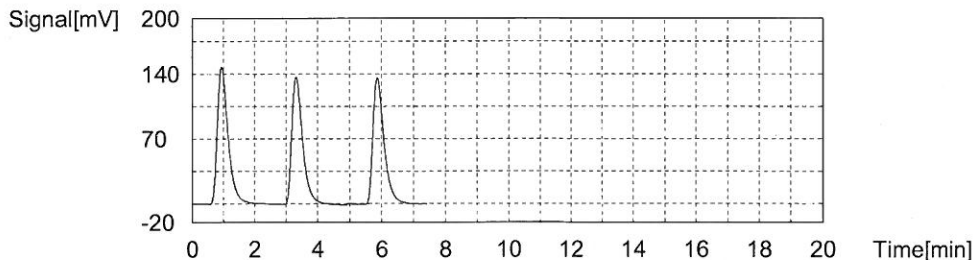
2.25

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	363.3	2.387mg/L	2500uL	1	E	05252016 toc-4 curve.2016_05_29	7/2016 8:28:09 PM
2	342.4	2.246mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 8:32:48 PM
3	342.7	2.248mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 8:37:23 PM

Mean Area 342.6
 Mean Conc. 2.247mg/L



Sample

Sample Name: 27431-8
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.815mg/L

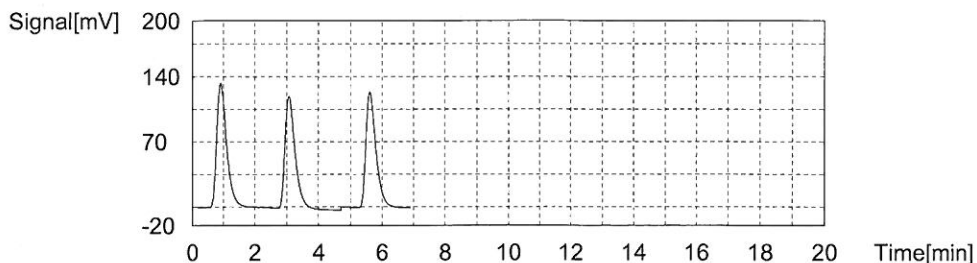
1.82

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	300.3	1.961mg/L	2500uL	1	E	05252016 toc-4 curve.2016_05_29	7/2016 8:48:18 PM
2	274.5	1.787mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 8:53:00 PM
3	282.9	1.843mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 8:57:17 PM

Mean Area 278.7
 Mean Conc. 1.815mg/L



Sample

Sample Name: 27431-9
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.124mg/L

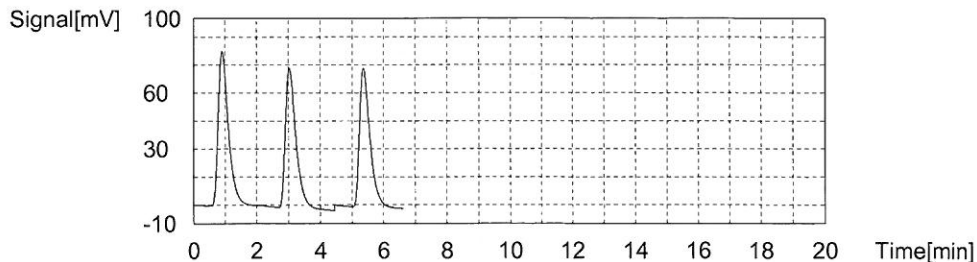
1.12

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	191.8	1.228mg/L	2500uL	1	E	05252016 toc-4 curve.2016_05_29	7/2016 9:08:10 PM
2	175.9	1.120mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 9:12:41 PM
3	177.1	1.128mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 9:16:56 PM

Mean Area 176.5
 Mean Conc. 1.124mg/L



Sample

Sample Name: 27431-10
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.226mg/L

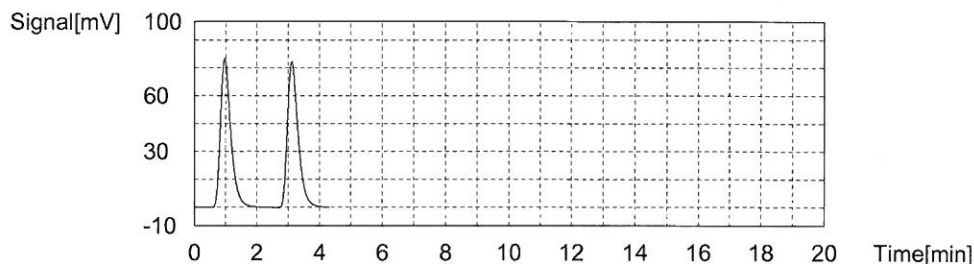
1.23

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	191.2	1.224mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 9:27:50 PM
2	191.8	1.228mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 9:32:11 PM

Mean Area 191.5
 Mean Conc. 1.226mg/L



Sample

Sample Name: 27431-11
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.278mg/L

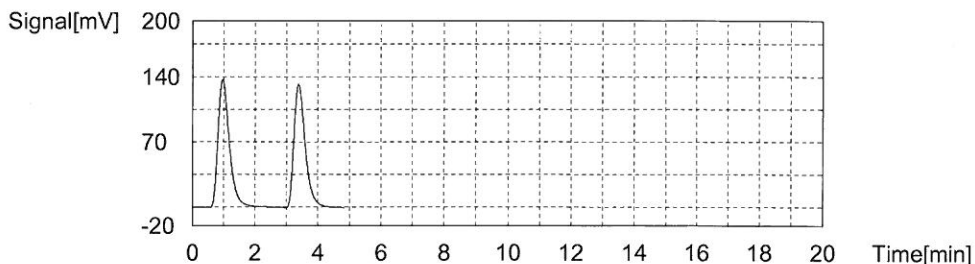
2.28

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	350.9	2.303mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 9:43:37 PM
2	343.4	2.252mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 9:48:12 PM

Mean Area 347.2
 Mean Conc. 2.278mg/L



Sample

Sample Name: 27431-12
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.405mg/L

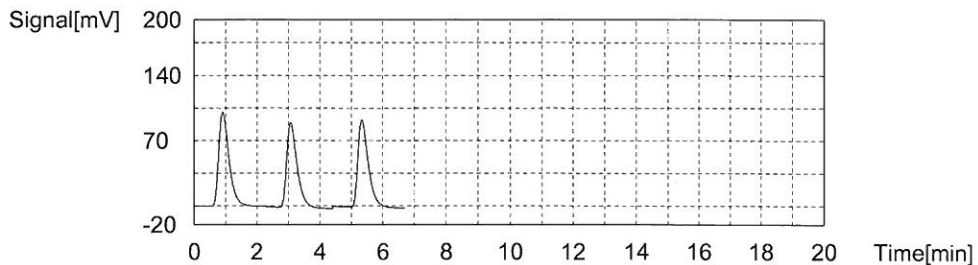
1.41

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	234.8	1.518mg/L	2500uL	1	E	05252016 toc-4 curve.2016_05_29	7/2016 9:59:23 PM
2	213.9	1.377mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 10:03:48 P
3	222.1	1.433mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 10:08:09 P

Mean Area 218.0
 Mean Conc. 1.405mg/L



Sample

Sample Name: 27431-13
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.768mg/L

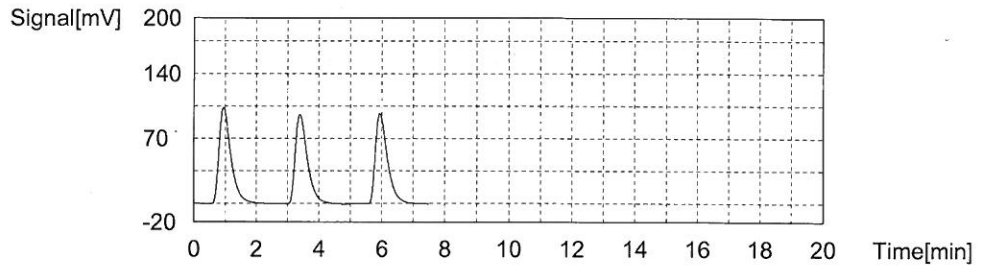
1.77

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	282.2	1.839mg/L	2500uL	1	E	05252016 toc-4 curve.2016_05_29	7/2016 10:19:21 P
2	269.4	1.752mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 10:24:00 P
3	274.0	1.783mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	7/2016 10:28:36 P

Mean Area 271.7
 Mean Conc. 1.768mg/L



Sample

Sample Name: ccv 2ppm
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.079mg/L

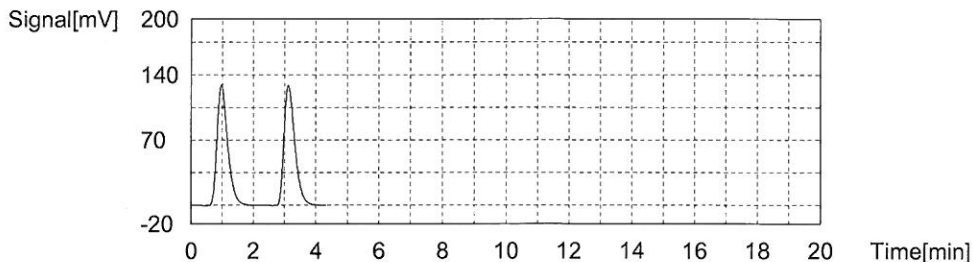
✓

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	316.8	2.073mg/L	2500uL		1	05252016 toc-4 curve.2016_05_29	9/7/2016 11:01:31 P
2	318.7	2.085mg/L	2500uL		1	05252016 toc-4 curve.2016_05_29	9/7/2016 11:05:50 P

Mean Area 317.8
 Mean Conc. 2.079mg/L



Sample

Sample Name: ccb
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status: Completed
 Chk. Result

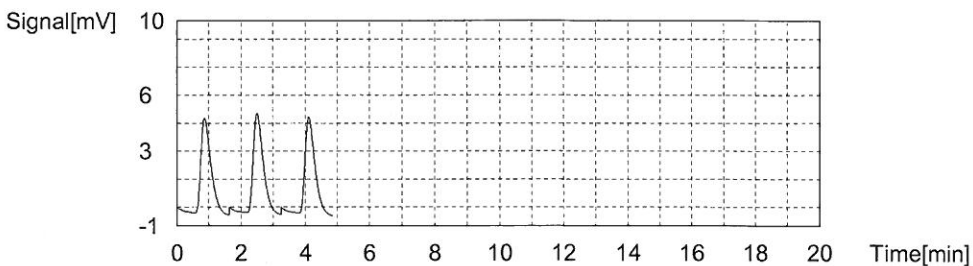
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00797mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.35	0.00841mg/L	2500uL		1	05252016 toc-4 curve.2016_05_29	9/7/2016 11:16:30 P
2	11.71	0.01084mg/L	2500uL		1 E	05252016 toc-4 curve.2016_05_29	9/7/2016 11:21:25 P
3	11.22	0.00753mg/L	2500uL		1	05252016 toc-4 curve.2016_05_29	9/7/2016 11:26:20 P

Mean Area 11.29
 Mean Conc. 0.00797mg/L



Sample

Sample Name: 27431-14
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.186mg/L

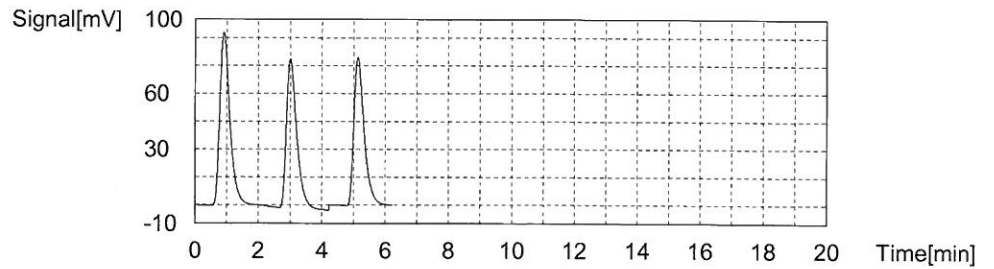
1.19

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	211.0	1.358mg/L	2500uL	1	E	05252016 toc-4 curve.2016_05_29	9/7/2016 11:37:11 P
2	186.3	1.191mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 11:41:32 P
3	184.9	1.181mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/7/2016 11:49:41 P

Mean Area 185.6
 Mean Conc. 1.186mg/L



Sample

Sample Name: 27431-4 dup
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.588mg/L

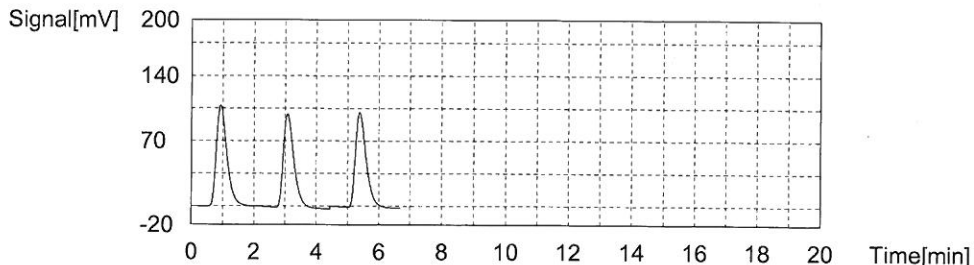
1.59

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	259.7	1.687mg/L	2500uL	1	E	05252016 toc-4 curve.2016_05_29/8/2016 12:00:35 A	
2	243.3	1.576mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/8/2016 12:05:04 A	
3	247.0	1.601mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/8/2016 12:09:24 A	

Mean Area 245.2
 Mean Conc. 1.588mg/L



Sample

Sample Name: 27431-5 ms
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status: Completed
 Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.763mg/L

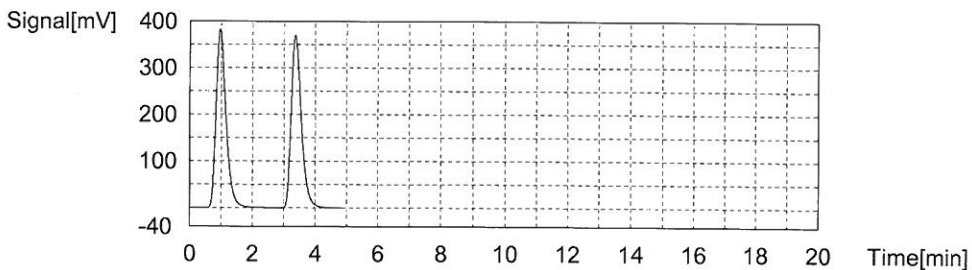
5.76

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	867.6	5.795mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/8/2016 12:20:33 A	
2	858.2	5.731mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29/8/2016 12:25:09 A	

Mean Area 862.9
 Mean Conc. 5.763mg/L



Sample

Sample Name: ccv 2ppm
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status: Completed
 Chk. Result

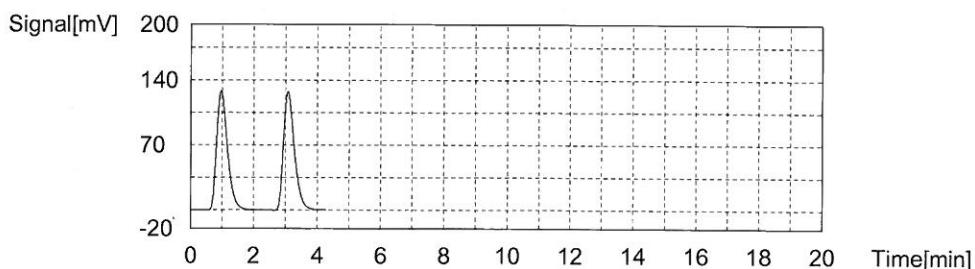
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.047mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	312.7	2.045mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/8/2016 12:53:42 A
2	313.2	2.048mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/8/2016 12:58:04 A

Mean Area 312.9
 Mean Conc. 2.047mg/L



Sample

Sample Name: ccb
 Sample ID:
 Origin: toc doc 2 reps method.met
 Status: Completed
 Chk. Result

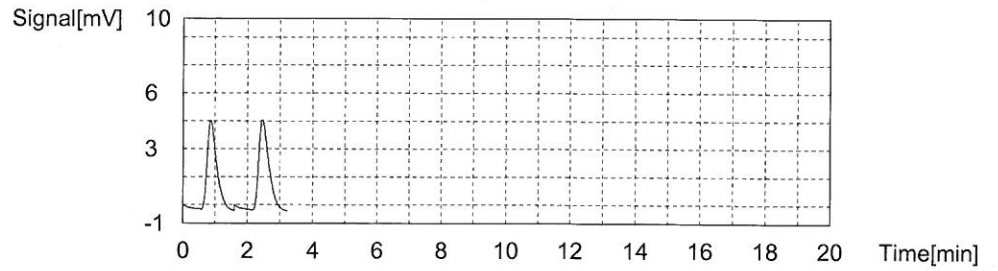
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00361mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.53	0.00287mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/8/2016 1:08:42 AM
2	10.75	0.00435mg/L	2500uL	1		05252016 toc-4 curve.2016_05_29	9/8/2016 1:13:27 AM

Mean Area 10.64
Mean Conc. 0.00361mg/L



Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 08 2016, 11:33 am

Work Group: WG929404 for Department: 7 Wet Chemistry

Created: 07-SEP-16 Due: Operator: dw

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1627358-01	WQ_1B-C_083016_SW_10	S DOC-9060	WATER	DONE	U	0927	0908	S0	Vial-D
L1627358-02	WQ_2-C_083016_SW_10	S DOC-9060	WATER	DONE	U	0927	0908	S0	Vial-D
L1627358-03	WQ_3-L_083016_SW_10	S DOC-9060	WATER	DONE	U	0927	0908	S0	Vial-D
L1627358-04	WQ_FTP_083016_SW_10	S DOC-9060	WATER	DONE	U	0927	0908	S0	Vial-D
L1627358-05	WQ_EC4_082916_SW_10	S DOC-9060	WATER	DONE	U	0926	0908	S0	Vial-D
L1627358-06	CS_15_082916_SW_10	S DOC-9060	WATER	DONE	U	0926	0908	S0	Vial-D
L1627358-07	OV02_082916_SW_10	S DOC-9060	WATER	DONE	U	0926	0908	S0	Vial-D
L1627358-08	OV02_082916_SW_10_DU	S DOC-9060	WATER	DONE	U	0926	0908	S0	Vial-D
WG929404-1	Laboratory Method Bl	S DOC-9060	WATER	DONE	U				
WG929404-2	Laboratory Control S	S DOC-9060	WATER	DONE	U				
WG929404-3	Duplicate Sample	S DOC-9060	WATER	DONE	U				
WG929404-4	Matrix Spike	S DOC-9060	WATER	DONE	U				

Comments:

WG929404-3 L1627358-07
 WG929404-4 L1627358-07

Alpha Report



ANALYTICAL REPORT

Lab Number:	L1627358
Client:	AMEC Foster Wheeler E & I, Inc. 511 Congress Street P.O. Box 7050 Portland, ME 04112-7050
ATTN:	Rod Pendleton
Phone:	(207) 828-3692
Project Name:	USDC PENOBSCOT
Project Number:	3616166052
Report Date:	09/08/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: USDC PENOBSCOT
Project Number: 3616166052

Lab Number: L1627358
Report Date: 09/08/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1627358-01	WQ_1B-C_083016_SW_10	WATER	WINTERPORT, ME	08/30/16 13:25	08/31/16
L1627358-02	WQ_2-C_083016_SW_10	WATER	WINTERPORT, ME	08/30/16 12:20	08/31/16
L1627358-03	WQ_3-L_083016_SW_10	WATER	WINTERPORT, ME	08/30/16 11:20	08/31/16
L1627358-04	WQ_FTP_083016_SW_10	WATER	WINTERPORT, ME	08/30/16 10:20	08/31/16
L1627358-05	WQ_EC4_082916_SW_10	WATER	WINTERPORT, ME	08/29/16 11:50	08/31/16
L1627358-06	CS_15_082916_SW_10	WATER	WINTERPORT, ME	08/29/16 14:00	08/31/16
L1627358-07	OV02_082916_SW_10	WATER	WINTERPORT, ME	08/29/16 17:00	08/31/16
L1627358-08	OV02_082916_SW_10_DUP	WATER	WINTERPORT, ME	08/29/16 17:00	08/31/16

Project Name: USDC PENOBSCOT
Project Number: 3616166052

Lab Number: L1627358
Report Date: 09/08/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: USDC PENOBSCOT
Project Number: 3616166052

Lab Number: L1627358
Report Date: 09/08/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

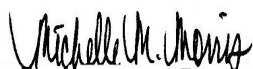
L1627358-01: The sample for TSS analysis was received with cap unattached, and the sample had spilled into cooler. Results for TSS are not available for this sample.

Dissolved Organic Carbon

The samples were field filtered; a filter blank was not received.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 09/08/16

INORGANICS & MISCELLANEOUS

Project Name: USDC PENOBSCOT
Project Number: 3616166052

Lab Number: L1627358
Report Date: 09/08/16

SAMPLE RESULTS

Lab ID: L1627358-01
Client ID: WQ_1B-C_083016_SW_10
Sample Location: WINTERPORT, ME
Matrix: Water

Date Collected: 08/30/16 13:25
Date Received: 08/31/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Dissolved Organic Carbon	6.8		mg/l	1.0	0.04	1	09/07/16 07:17	09/07/16 07:17	1,9060A	DW



Project Name: USDC PENOBSCOT
Project Number: 3616166052

Lab Number: L1627358
Report Date: 09/08/16

SAMPLE RESULTS

Lab ID: L1627358-02
Client ID: WQ_2-C_083016_SW_10
Sample Location: WINTERPORT, ME
Matrix: Water

Date Collected: 08/30/16 12:20
Date Received: 08/31/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	6.8		mg/l	5.0	NA	1	-	09/04/16 14:25	121,2540D	SG
Dissolved Organic Carbon	1.3		mg/l	1.0	0.04	1	09/07/16 07:17	09/07/16 07:17	1,9060A	DW



Project Name: USDC PENOBSCOT
Project Number: 3616166052

Lab Number: L1627358
Report Date: 09/08/16

SAMPLE RESULTS

Lab ID: L1627358-03
Client ID: WQ_3-L_083016_SW_10
Sample Location: WINTERPORT, ME
Matrix: Water

Date Collected: 08/30/16 11:20
Date Received: 08/31/16
Field Prep: Field Filtered (DOC)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	10.		mg/l	5.0	NA	1	-	09/04/16 14:25	121,2540D	SG
Dissolved Organic Carbon	0.23	J	mg/l	1.0	0.04	1	09/07/16 07:17	09/07/16 07:17	1,9060A	DW

