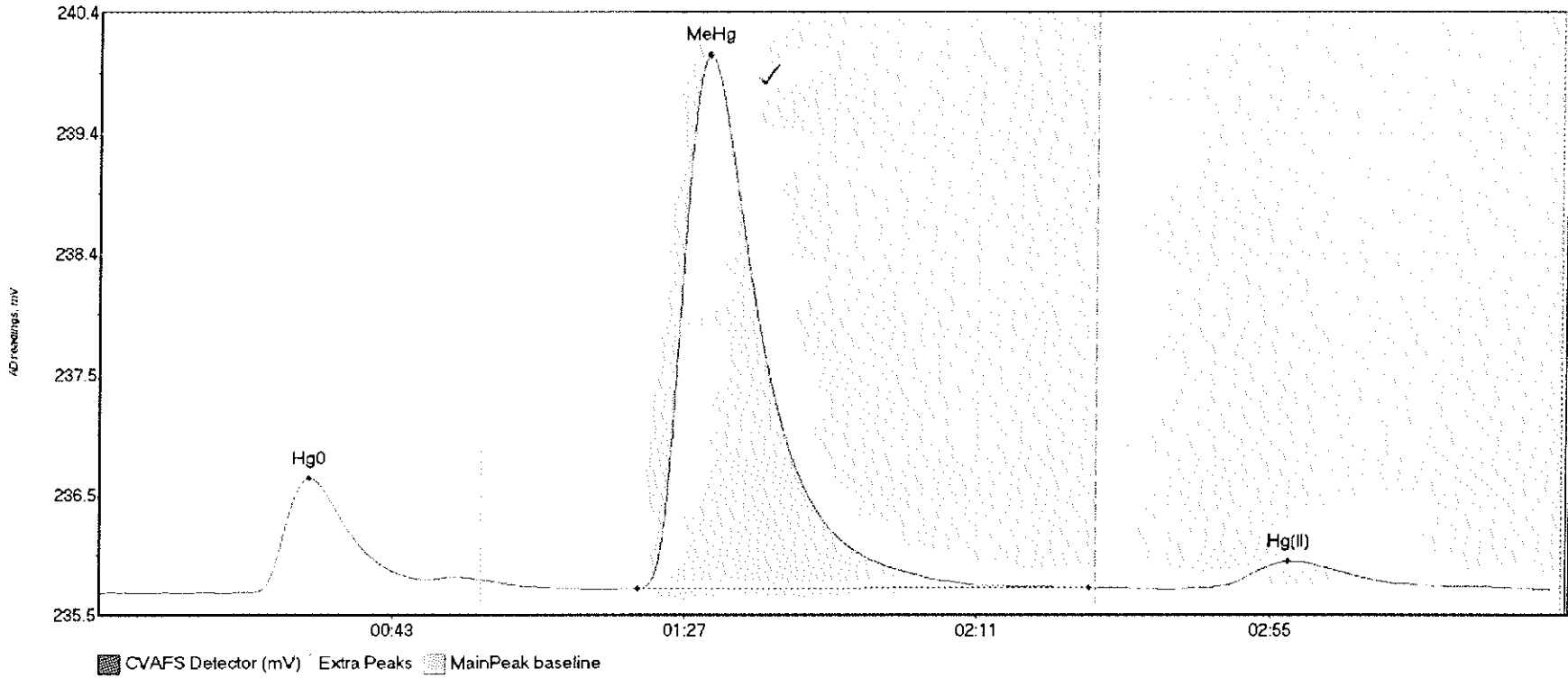
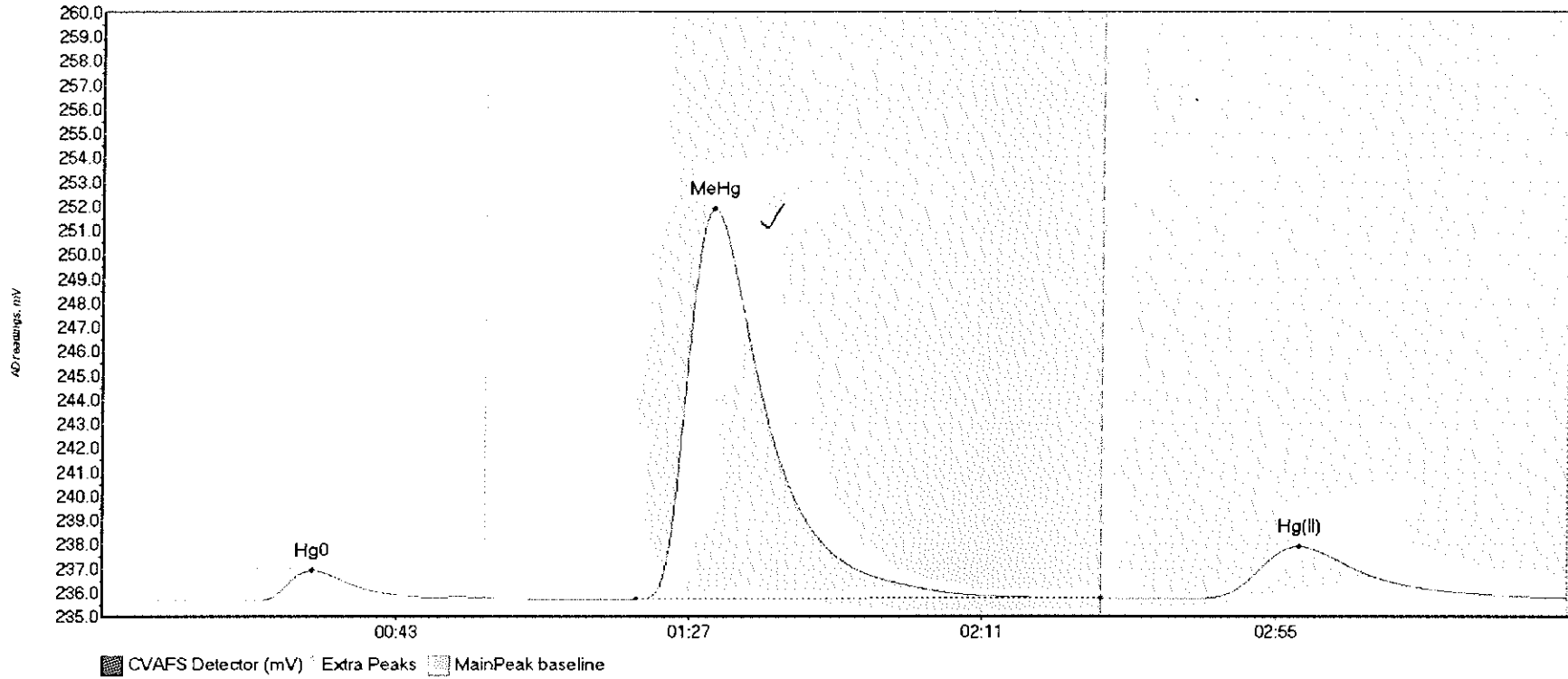


#26: 1608071-01RE1



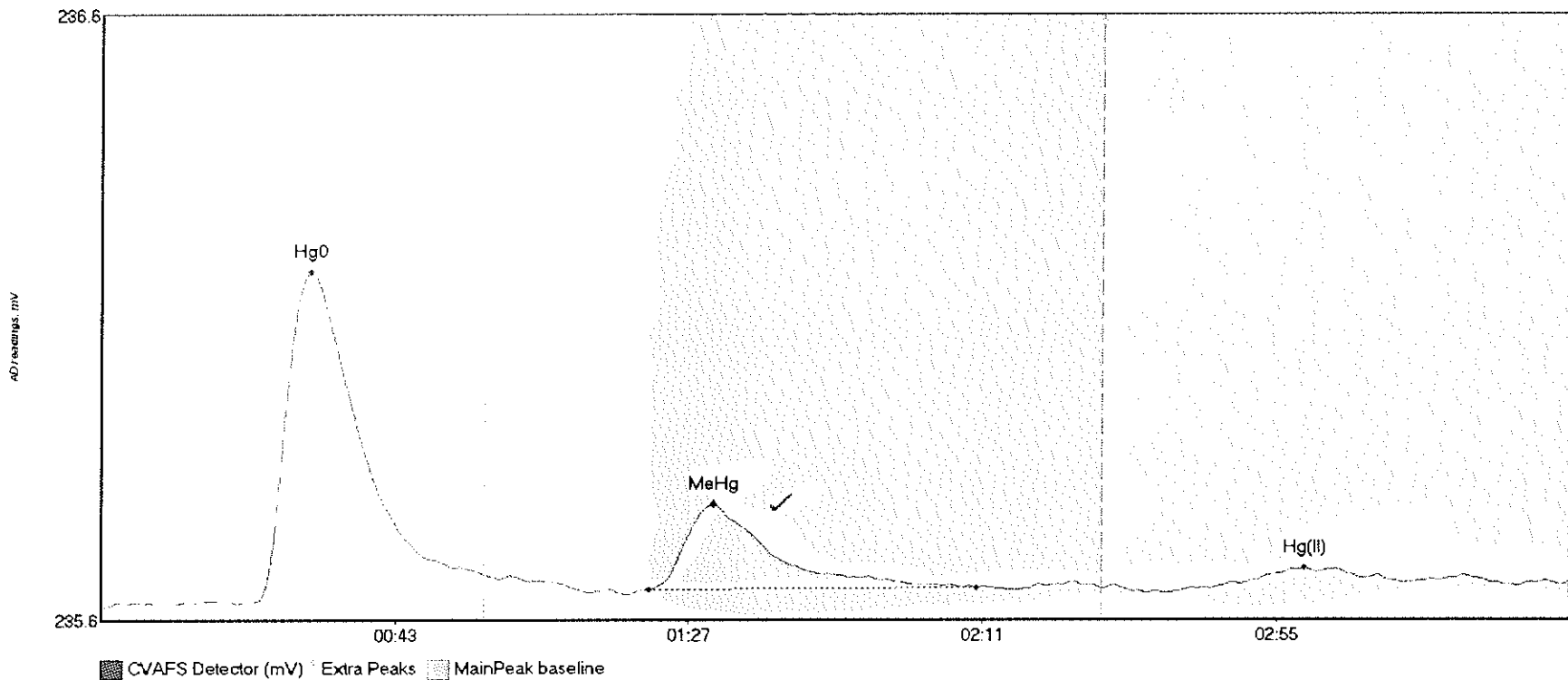
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-01RE1 H	99.285	19.0	57.5	235.67	235.78	31.5	0.942	CF	235.6714	0.00	0.04	
1608071-01RE1 M	605.880	81.0	148.9	235.71	235.71	91.5	4.351	OK	235.6714	0.00	0.04	
1608071-01RE1 H	36.198	165.2	211.4	235.71	235.72	178.8	0.216	OK	235.6714	0.00	0.04	

#27: 1608071-02RE1



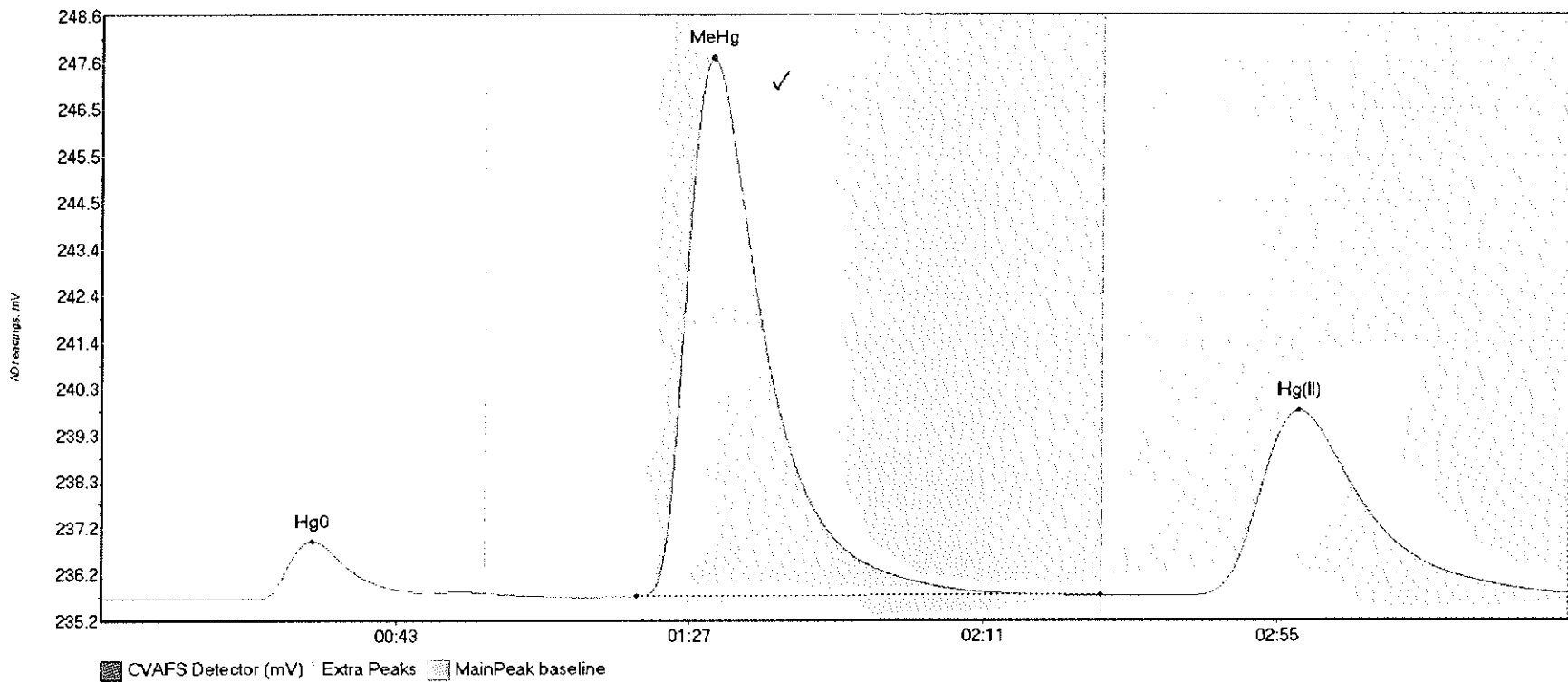
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-02RE1 H	131.332	23.3	57.5	235.67	235.78	31.6	1.232	CT	235.6719	0.00	0.10	
1608071-02RE1 M	2252.457	80.1	149.9	235.73	235.77	91.6	16.140	OK	235.6719	0.00	0.10	
1608071-02RE1 H	390.132	164.4	219.8	235.76	235.77	179.4	2.134	CT	235.6719	0.00	0.10	

#28: WS



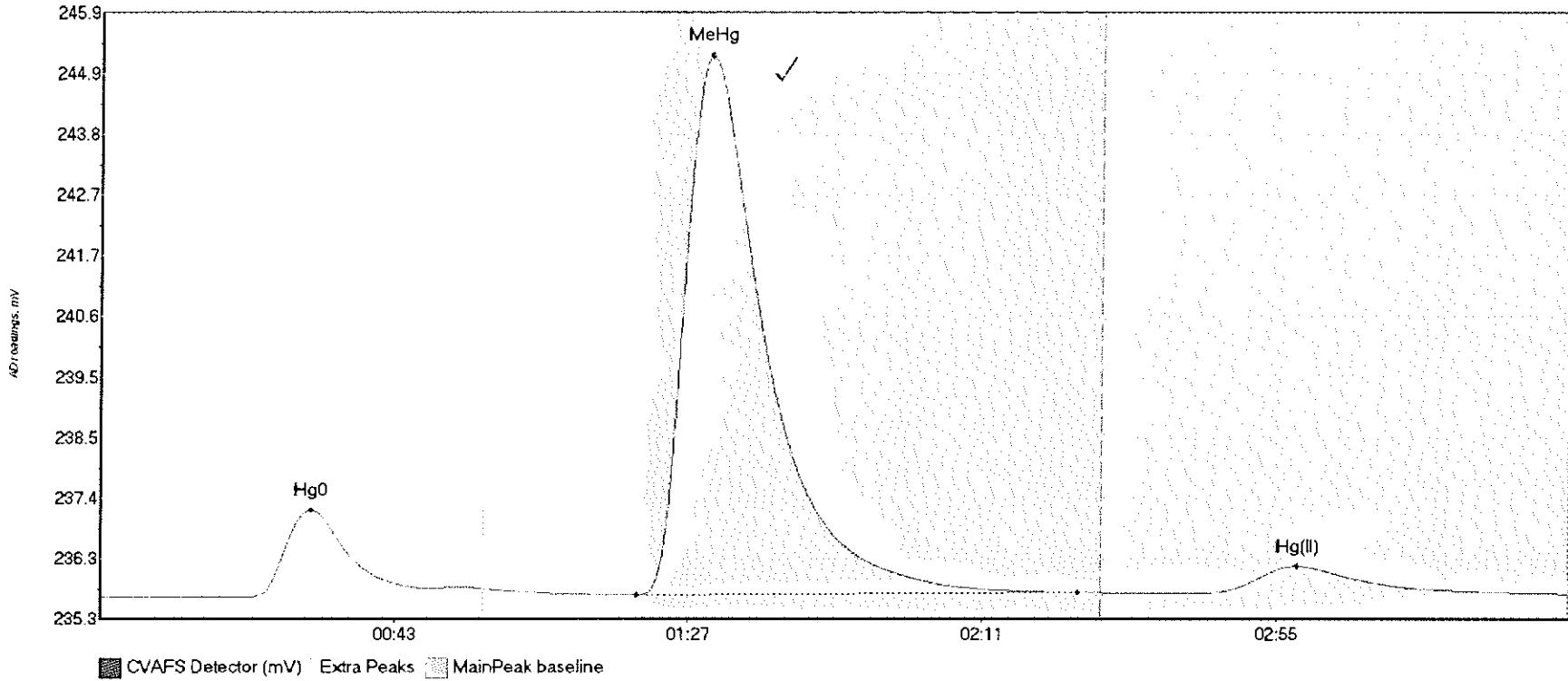
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	65.091	20.6	57.5	235.67	235.72	31.3	0.548	CT	235.6661	0.00	0.04	
WS MeHg	21.007	82.2	131.2	235.69	235.70	91.7	0.142	OK	235.6661	0.00	0.04	
WS Hg(II)	6.510	166.0	210.3	235.70	235.70	180.2	0.033	OK	235.6661	0.00	0.04	

#29: 1608071-05RE1



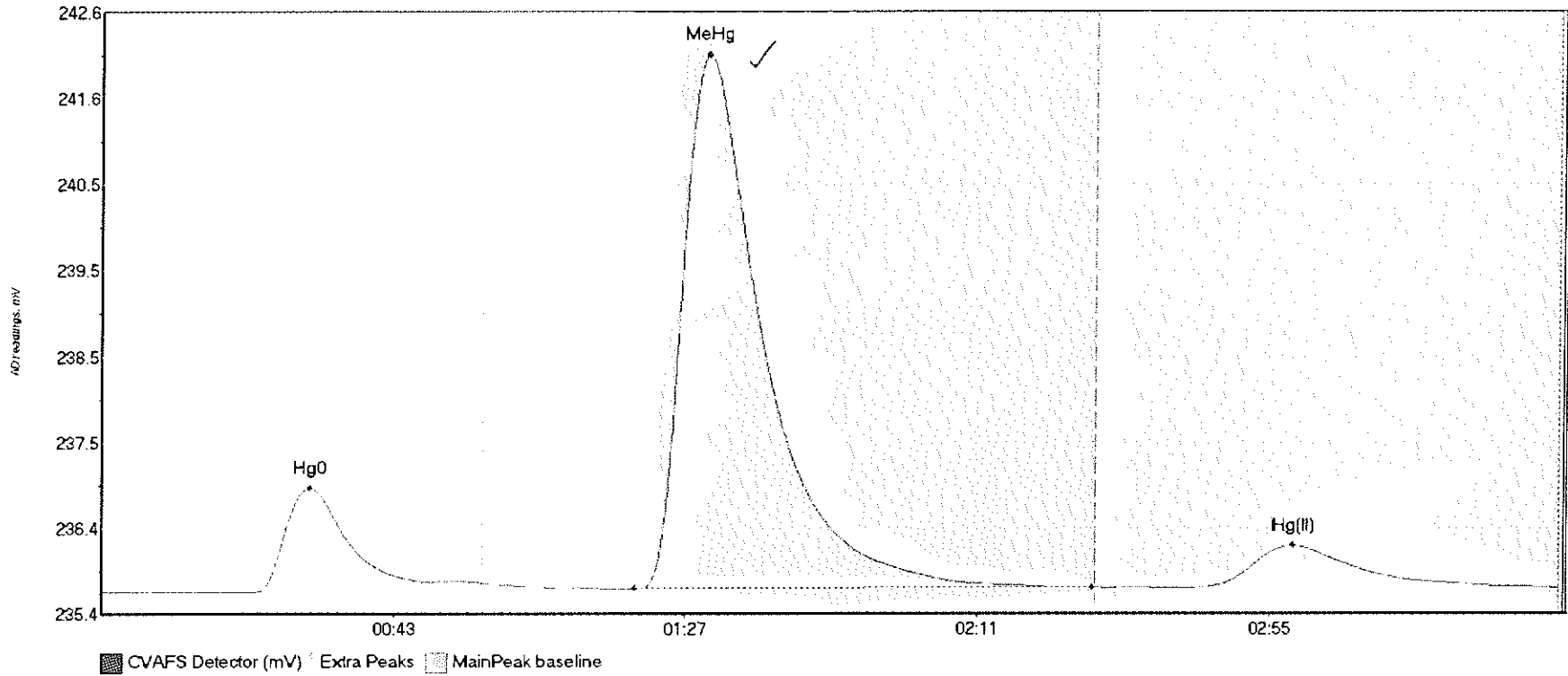
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	SlDev	BlShift	Comment
1608071-05RE1 H	123.025	23.0	48.8	235.67	235.78	31.6	1.273	OK	235.6644	0.00	0.13	
1608071-05RE1 M	1644.496	80.1	149.7	235.73	235.74	91.5	11.899	OK	235.6644	0.00	0.13	
1608071-05RE1 H	740.738	163.2	219.8	235.74	235.79	179.2	4.101	CT	235.6644	0.00	0.13	

#30: 1608071-06RE1



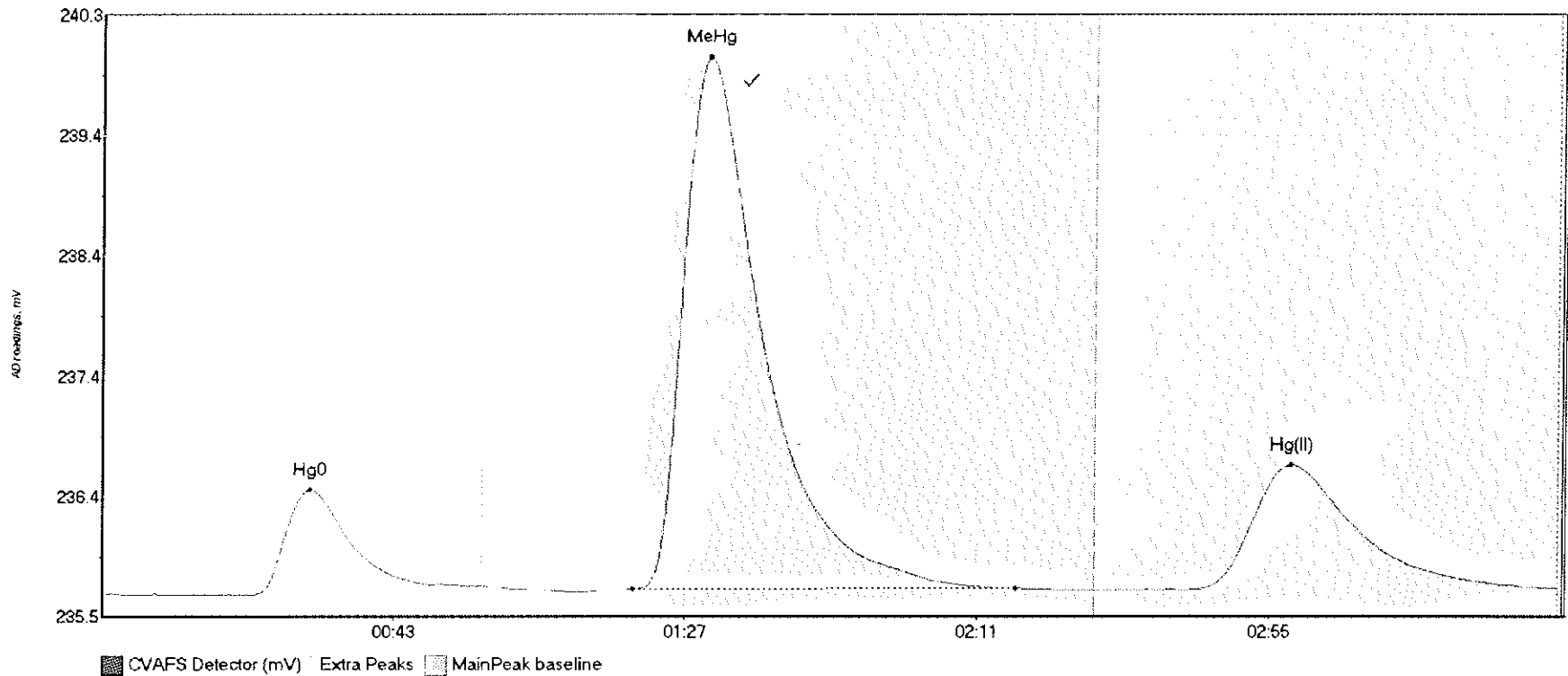
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1608071-06RE1 H	155.333	17.5	57.5	235.66	235.80	31.6	1.534	CT	235.6560	0.00	0.06	
1608071-06RE1 M	1321.741	80.5	146.4	235.69	235.74	91.3	9.474	OK	235.6560	0.00	0.06	
1608071-06RE1 H	81.957	164.8	214.2	235.73	235.73	179.2	0.470	OK	235.6560	0.00	0.06	

#31: 1608071-07RE1



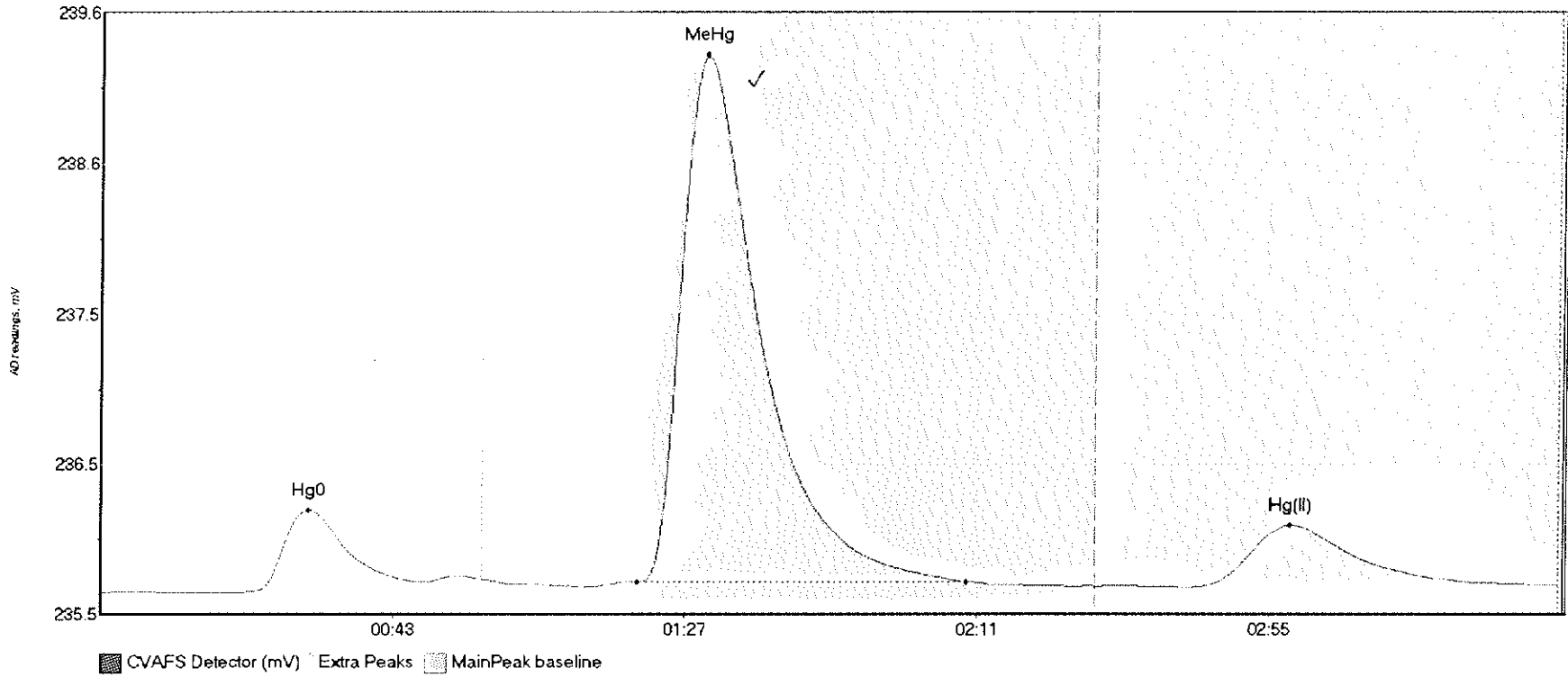
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-07RE1 H	129.030	21.9	57.5	235.66	235.77	31.4	1.243	CT	235.6697	0.00	0.04	
1608071-07RE1 M	895.677	80.4	149.5	235.70	235.72	91.5	6.373	OK	235.6697	0.00	0.04	
1608071-07RE1 H	89.533	163.9	217.4	235.71	235.72	179.6	0.505	OK	235.6697	0.00	0.04	

#32: 1608071-11RE1



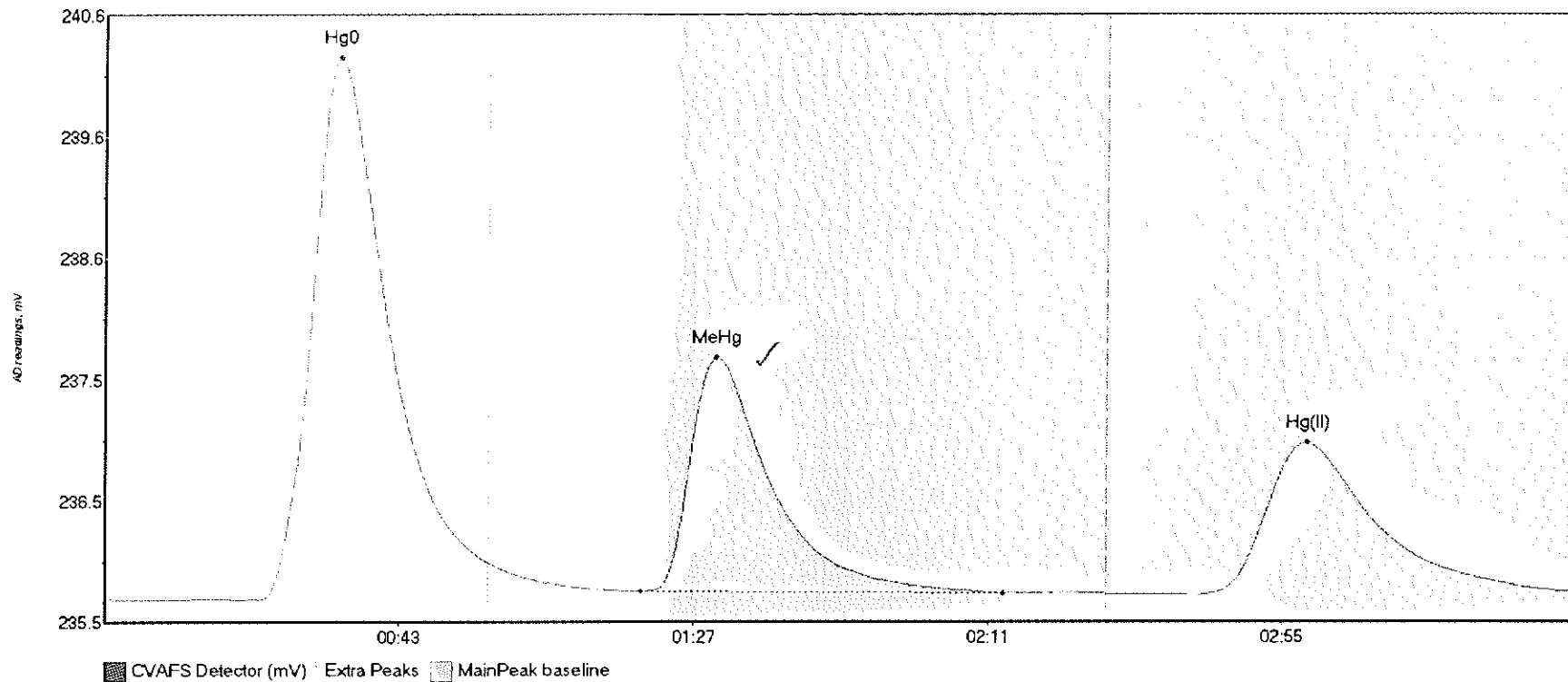
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1608071-11RE1 H	91.381	22.8	57.5	235.65	235.72	31.5	0.847	CT	235.6566	0.00	0.05	
1608071-11RE1 M	600.990	80.2	137.9	235.69	235.70	91.6	4.298	OK	235.6566	0.00	0.05	
1608071-11RE1 H	180.385	163.4	219.8	235.69	235.71	179.3	1.011	CT	235.6566	0.00	0.65	

#33: 1608072-02RE1



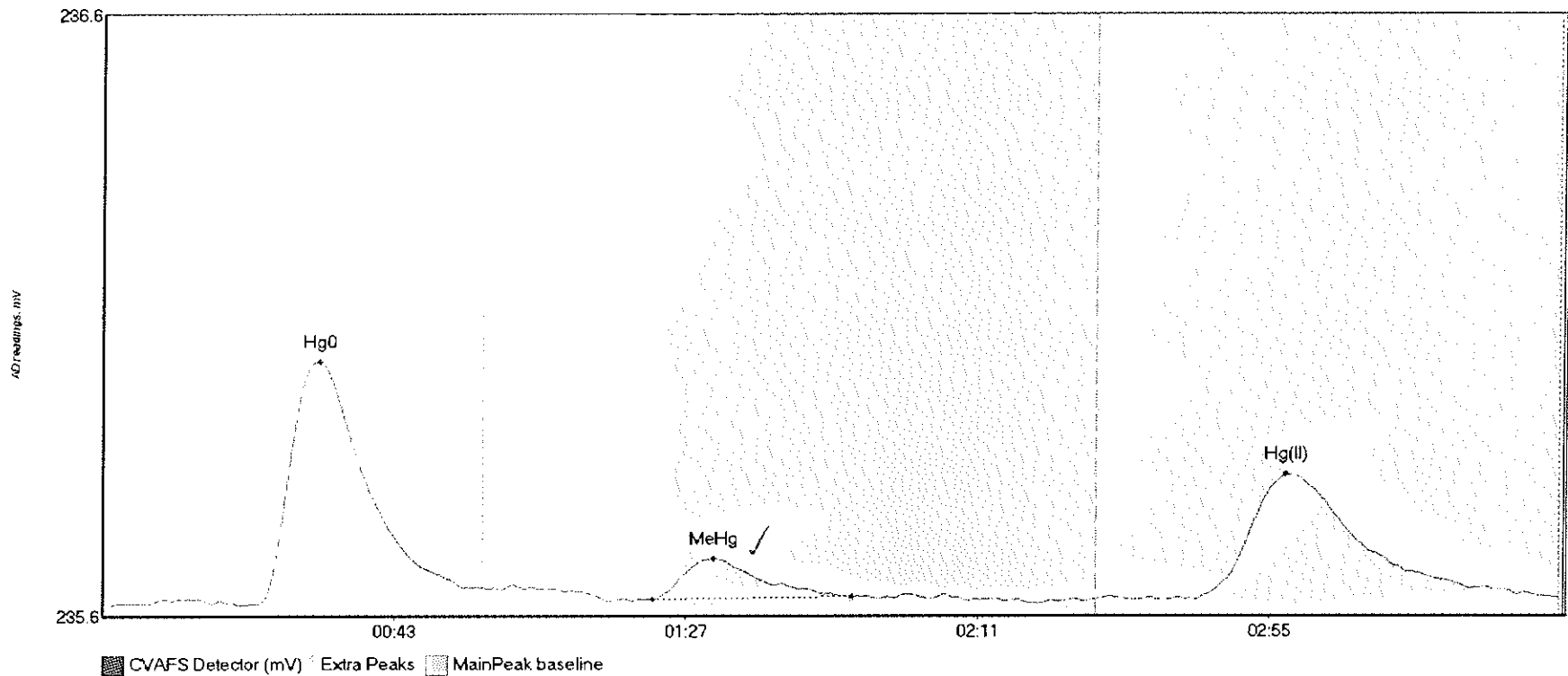
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608072-02RE1 H	54.867	20.4	48.7	235.64	235.71	31.5	0.560	OK	235.6386	0.00	0.05	
1608072-02RE1 M	490.758	80.9	130.5	235.71	235.71	91.3	3.582	OK	235.6386	0.00	0.05	
1608072-02RE1 H	76.280	163.9	217.7	235.67	235.69	179.2	0.424	OK	235.6386	0.00	0.05	

#34: SEQ-CCV2



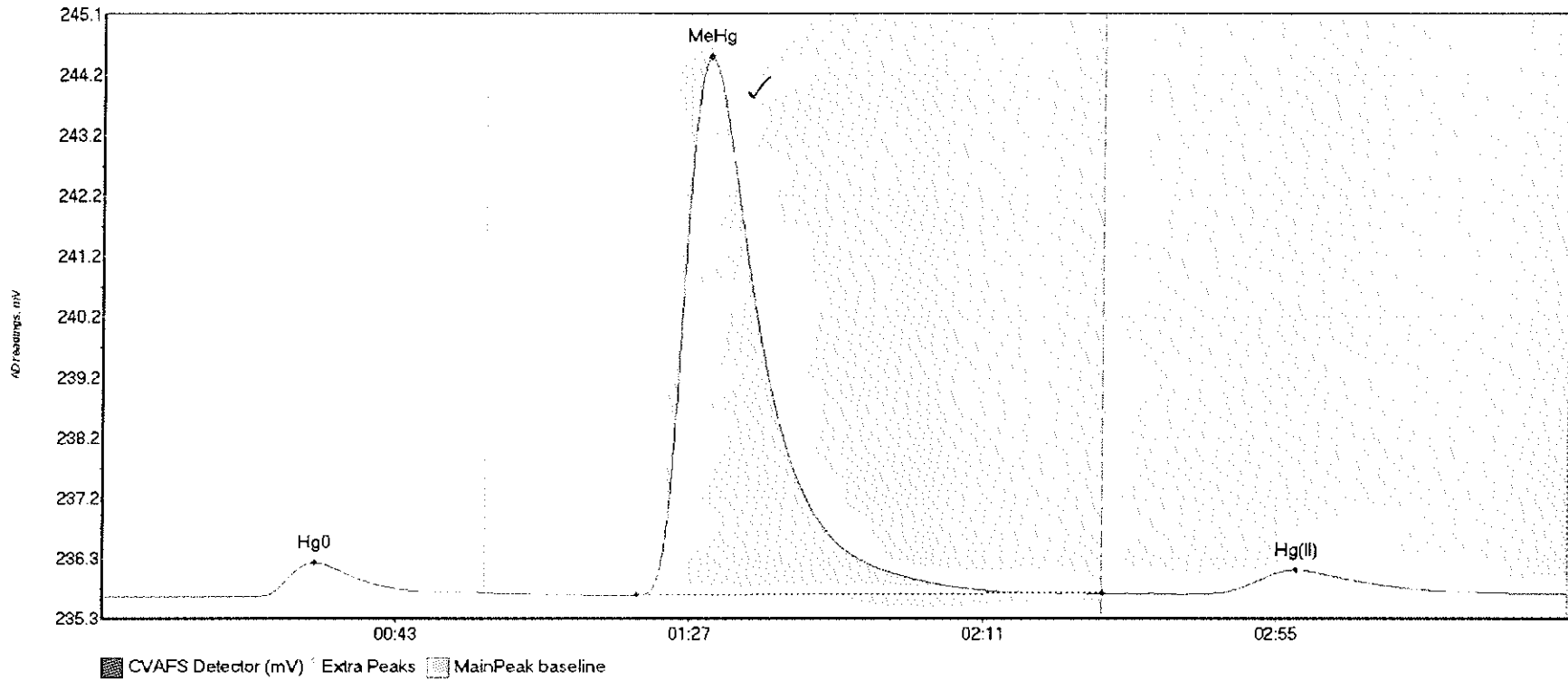
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV2 Hg0	571.775	23.1	57.5	235.65	235.96	35.1	4.619	CT	235.6470	0.00	0.07	
SEQ-CCV2 MeHg	281.346	80.1	134.3	235.71	235.70	91.5	2.000	OK	235.6470	0.00	0.07	
SEQ-CCV2 Hg(II)	238.485	163.7	219.8	235.69	235.71	179.7	1.299	CT	235.6470	0.00	0.07	

#35: SEQ-CCB2



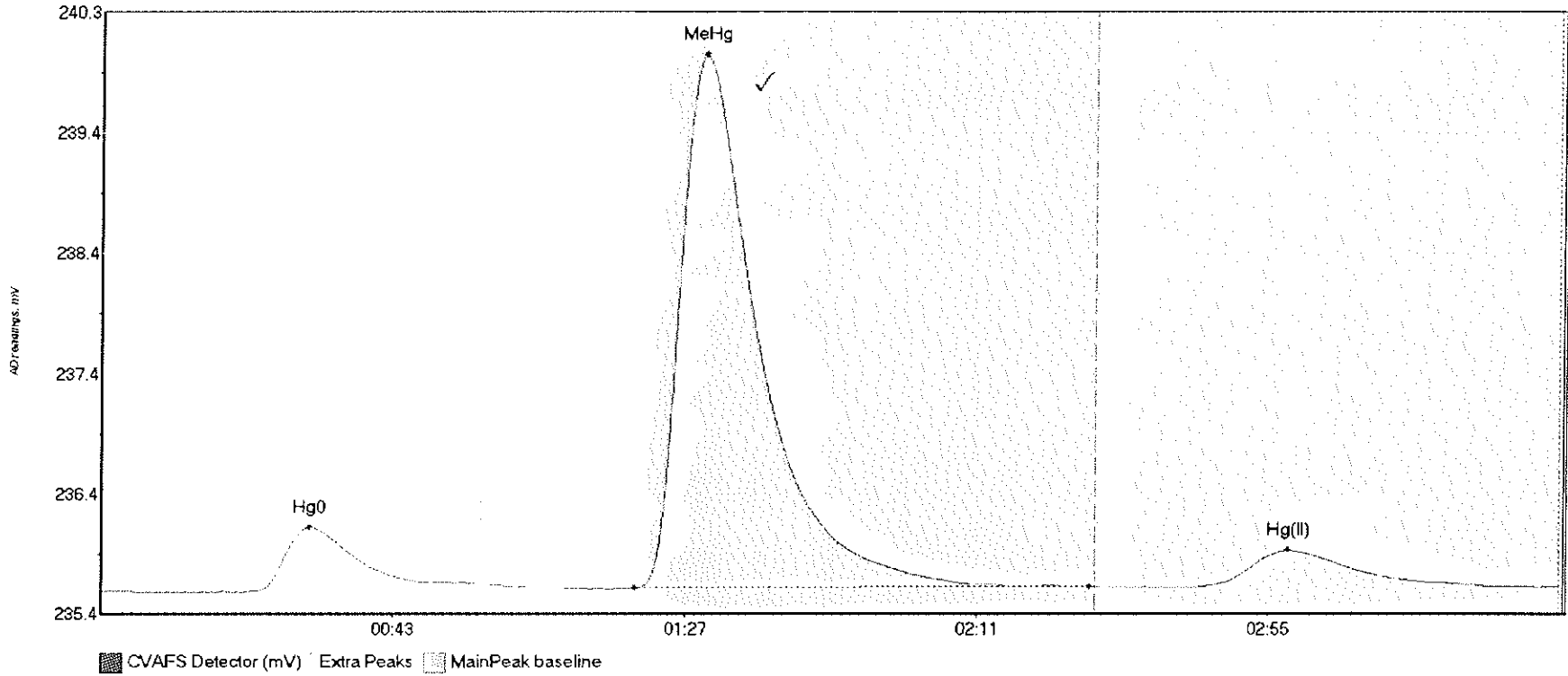
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	ElDev	ElShift	Comment
SEQ-CCB2 Hg0	50.526	23.4	57.5	235.65	235.67	32.8	0.404	CT	235.6426	0.00	0.02	
SEQ-CCB2 MeHg	8.963	83.0	113.1	235.65	235.66	92.3	0.068	OK	235.6426	0.00	0.02	
SEQ-CCB2 Hg(II)	38.206	165.2	216.7	235.65	235.66	178.5	0.208	OK	235.6426	0.00	0.02	

#36: 1607903-34RE1



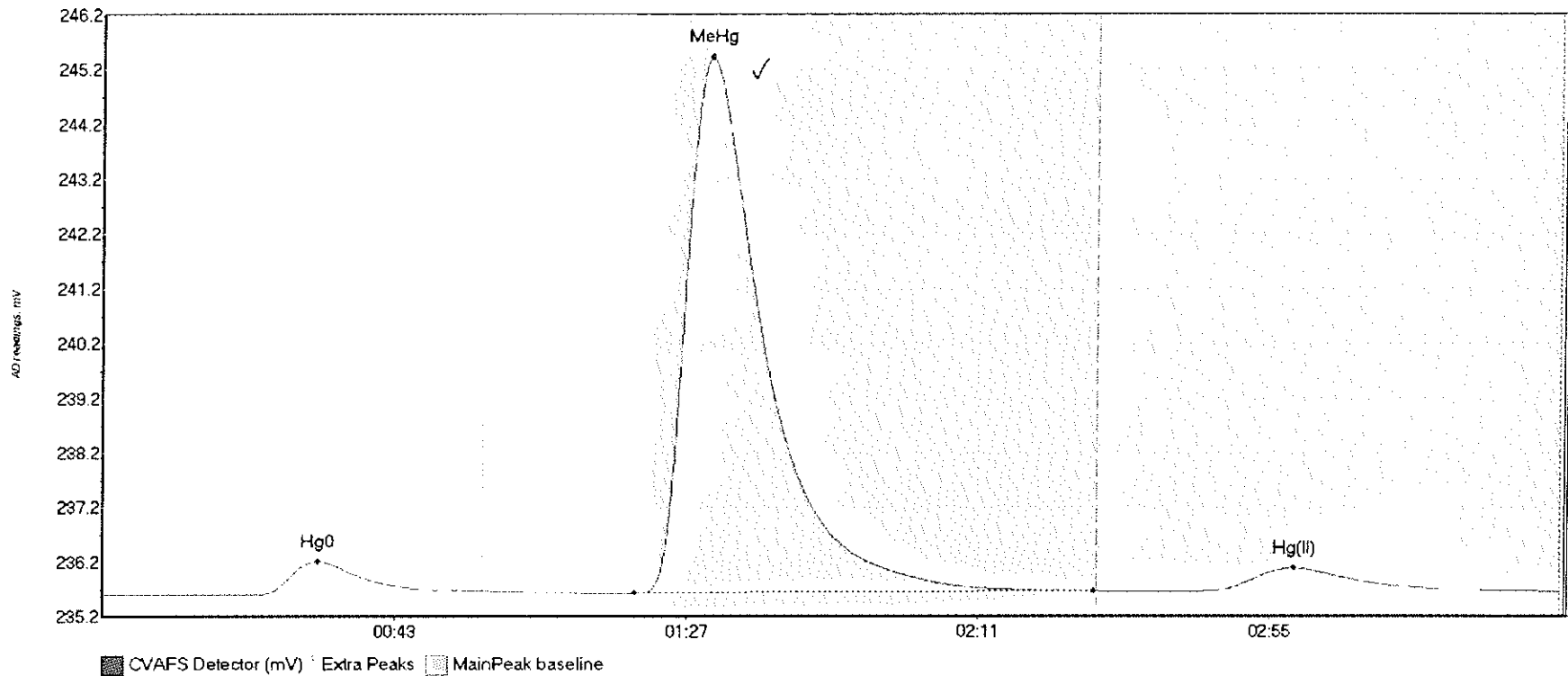
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-34RE1 H	63.422	22.3	57.5	235.63	235.69	31.9	0.551	CT	235.6281	0.00	0.04	
1607903-34RE1 M	1210.117	80.1	150.0	235.65	235.68	91.0	8.785	CT	235.6281	0.00	0.04	
1607903-34RE1 H	69.925	162.6	212.3	235.66	235.68	179.0	0.395	OK	235.6281	0.00	0.04	

#37: 1607903-35RE1



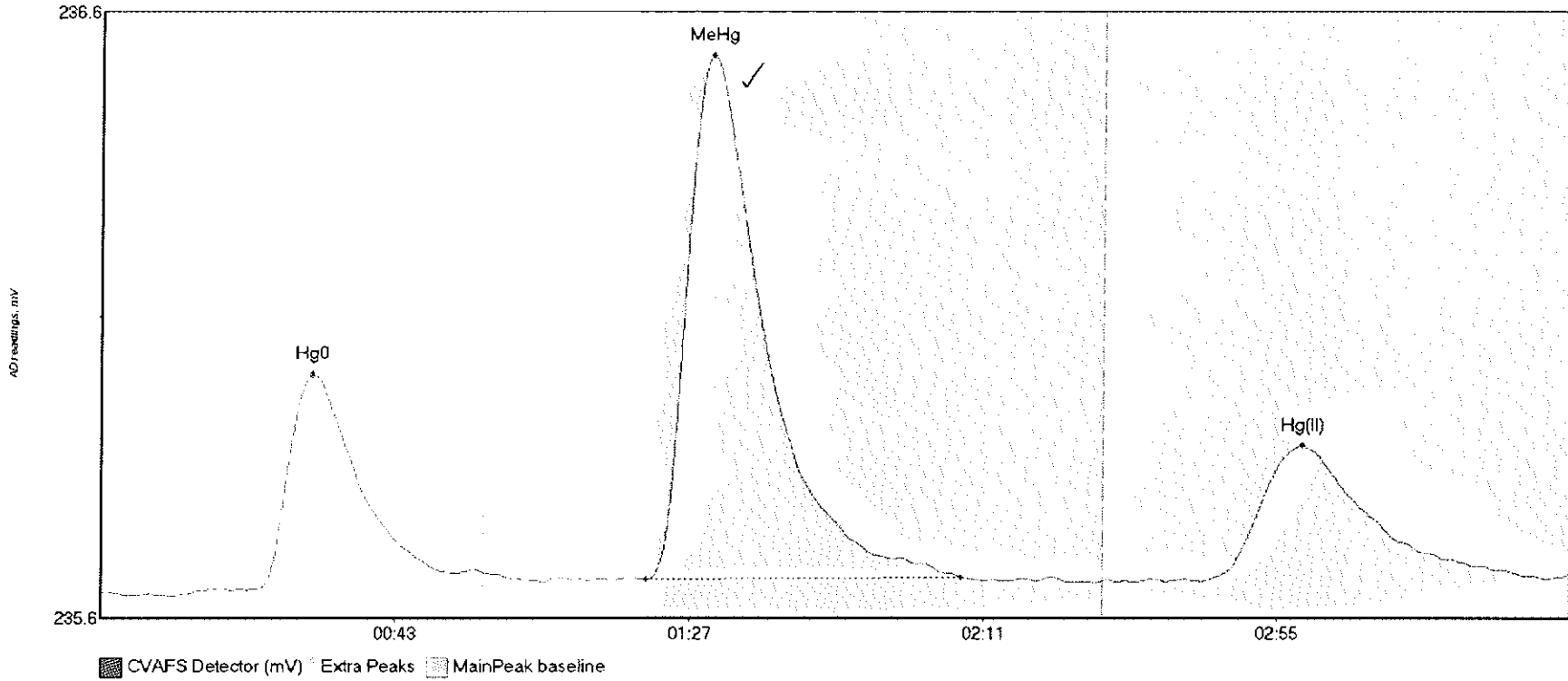
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-35RE1 H	61.226	21.8	57.5	235.63	235.69	31.5	0.525	CP	235.6335	0.00	0.04	
1607903-35RE1 M	596.484	80.5	149.1	235.66	235.67	91.0	4.336	OK	235.6335	0.00	0.04	
1607903-35RE1 H	53.352	164.4	216.8	235.67	235.67	179.1	0.302	OK	235.6335	0.00	0.04	

#38: 1607903-36RE1



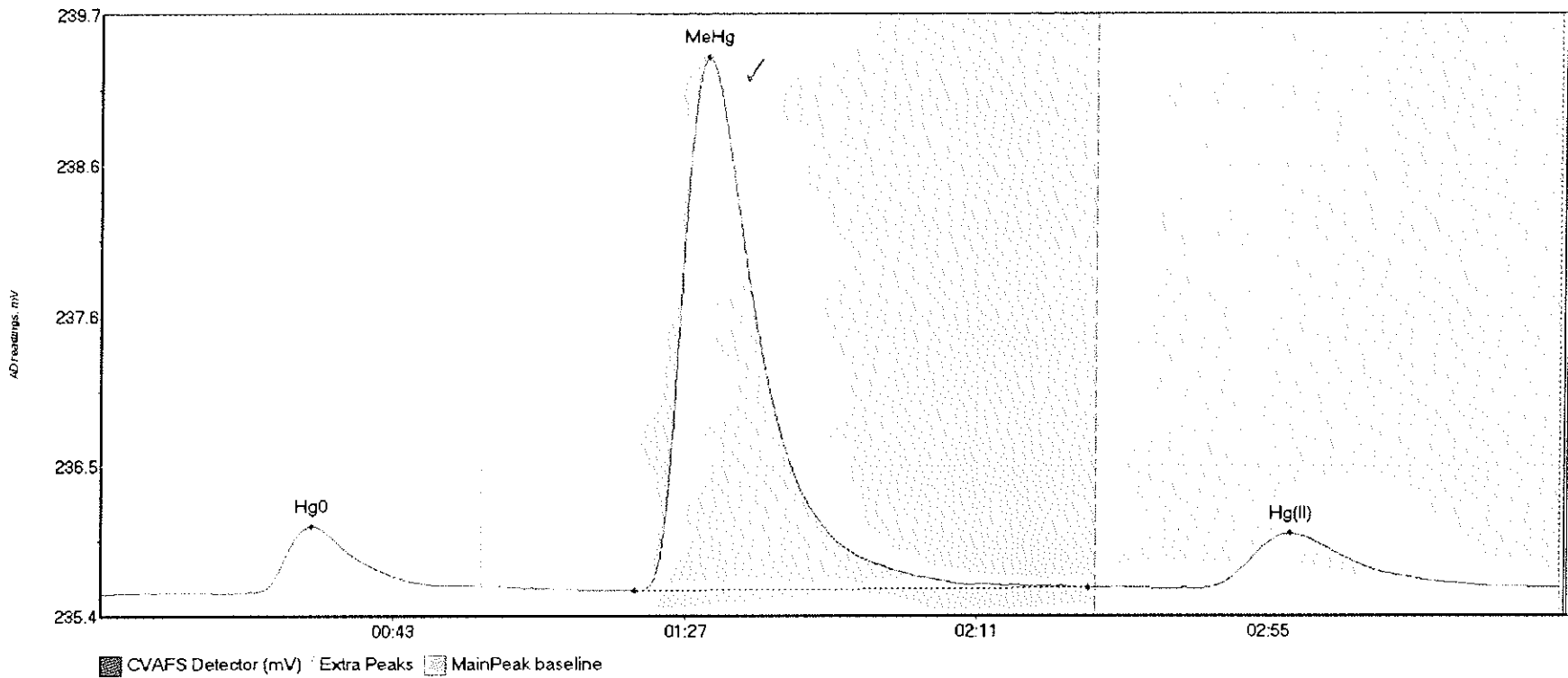
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	StDev	BlShift	Comment
1607903-36RE1 H	68.745	20.7	57.5	235.62	235.69	32.5	0.603	CF	235.6128	0.00	0.06	
1607903-36RE1 M	1343.670	80.1	149.4	235.65	235.68	91.7	9.779	OK	235.6128	0.00	0.06	
1607903-36RE1 H	73.986	164.3	215.6	235.67	235.68	179.7	0.431	OK	235.6128	0.00	0.06	

#39: 1607903-38RE1



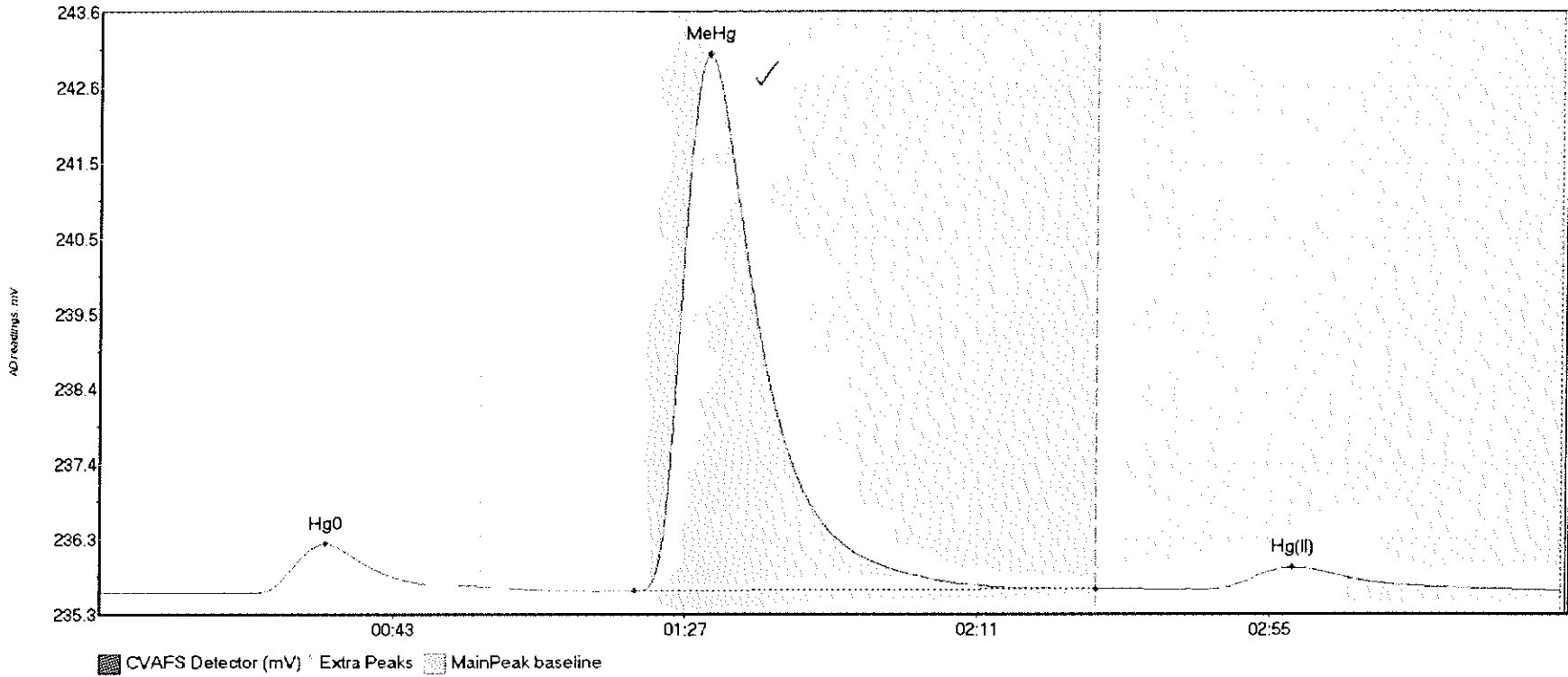
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-38RE1 H	42.933	23.2	53.2	235.62	235.65	31.6	0.376	OK	235.6163	0.00	0.03	
1607903-38RE1 M	123.932	81.6	128.8	235.64	235.64	91.3	0.917	OK	235.6163	0.00	0.03	
1607903-38RE1 H	43.822	164.9	216.2	235.63	235.64	179.7	0.238	OK	235.6163	0.00	0.03	

#40: 1607903-39RE1



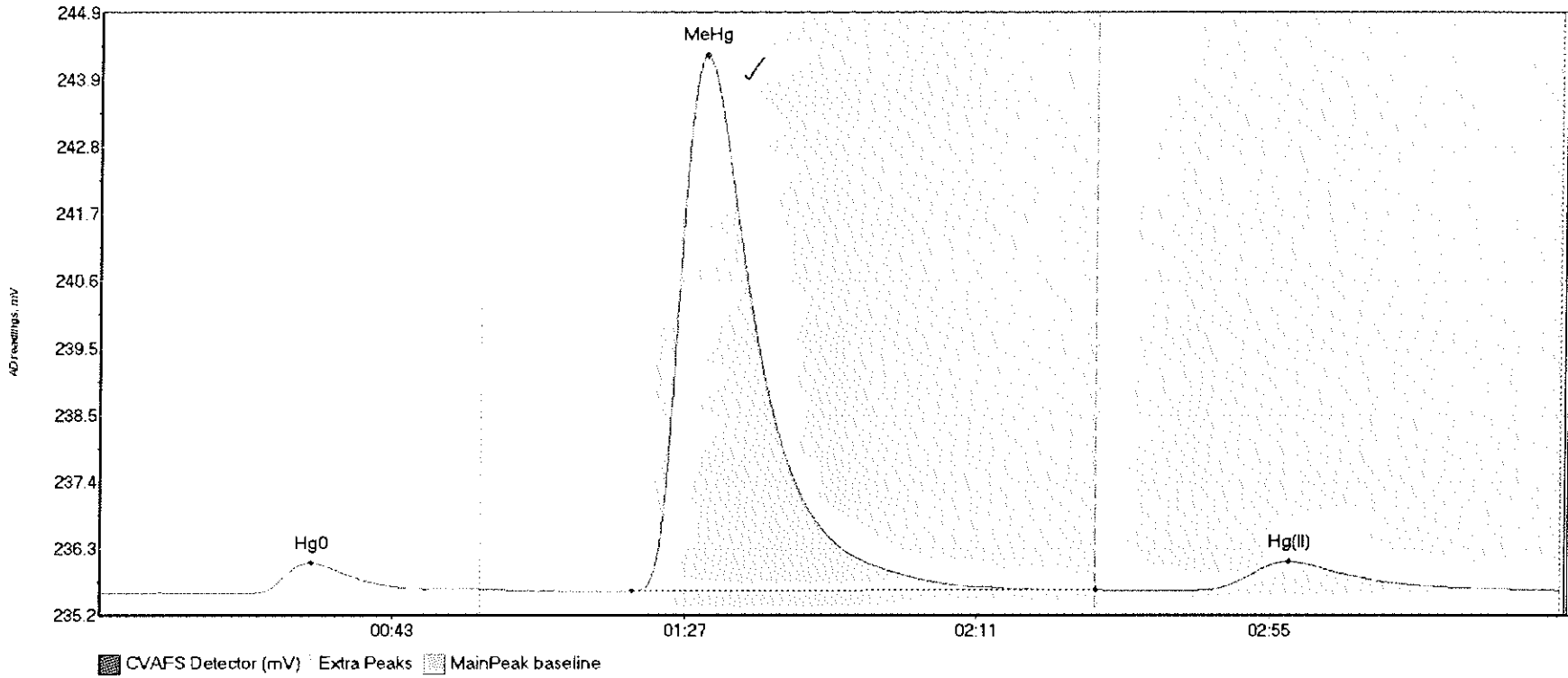
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	SiDev	BlShift	Comment
1607903-39RE1 H	53.467	0.1	57.5	235.59	235.65	31.7	0.481	CT	235.5922	0.00	0.05	
1607903-39RE1 M	518.286	80.5	148.7	235.62	235.64	91.3	3.760	OK	235.5922	0.00	0.05	
1607903-39RE1 H	68.653	165.3	216.7	235.63	235.64	179.3	0.388	OK	235.5922	0.00	0.05	

#41: 1607903-43RE1



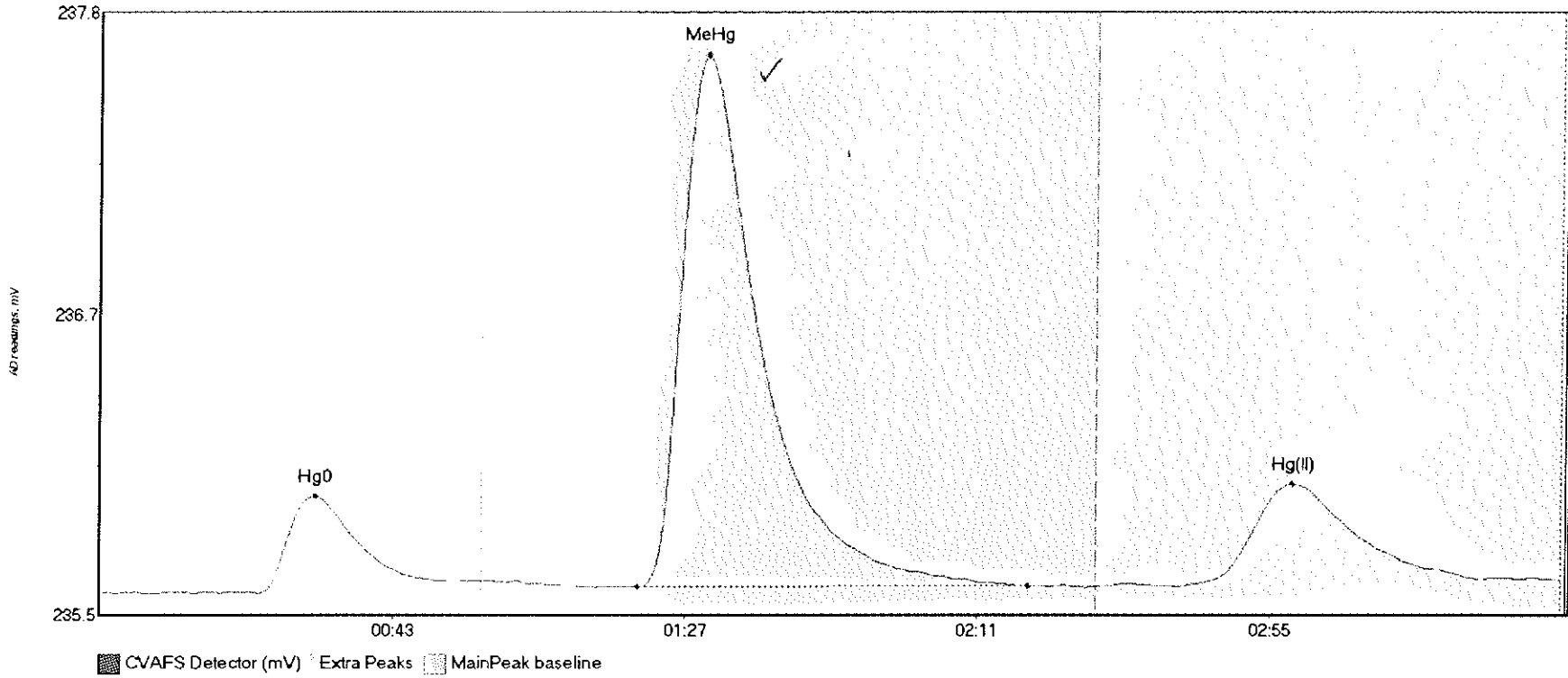
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-43RE1 H	80.840	23.0	57.5	235.61	235.69	33.9	0.676	CT	235.6063	0.00	0.03	
1607903-43RE1 M	1024.903	80.4	149.9	235.63	235.66	91.4	7.401	OK	235.6063	0.00	0.03	
1607903-43RE1 H	49.804	166.3	208.1	235.65	235.66	179.4	0.305	OK	235.6063	0.00	0.03	

#42: 1607903-44RE1



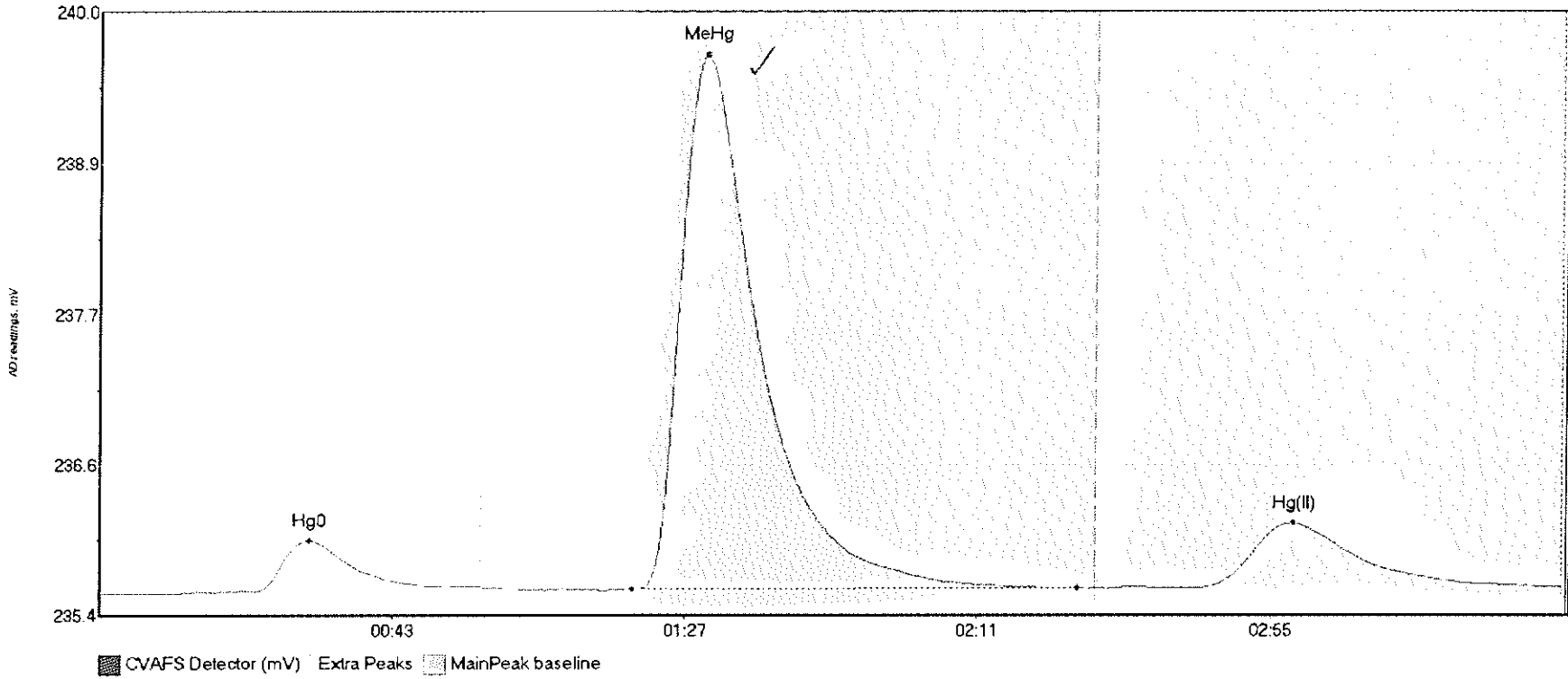
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-44RE1 H	53.483	16.0	57.5	235.59	235.66	31.8	0.490	CT	235.5844	0.00	0.06	
1607903-44RE1 M	1181.570	80.1	150.0	235.63	235.65	91.0	8.617	CT	235.5844	0.00	0.06	
1607903-44RE1 H	82.528	165.1	216.7	235.64	235.65	179.0	0.457	OK	235.5844	0.00	0.06	

#43: 1608071-03RE1



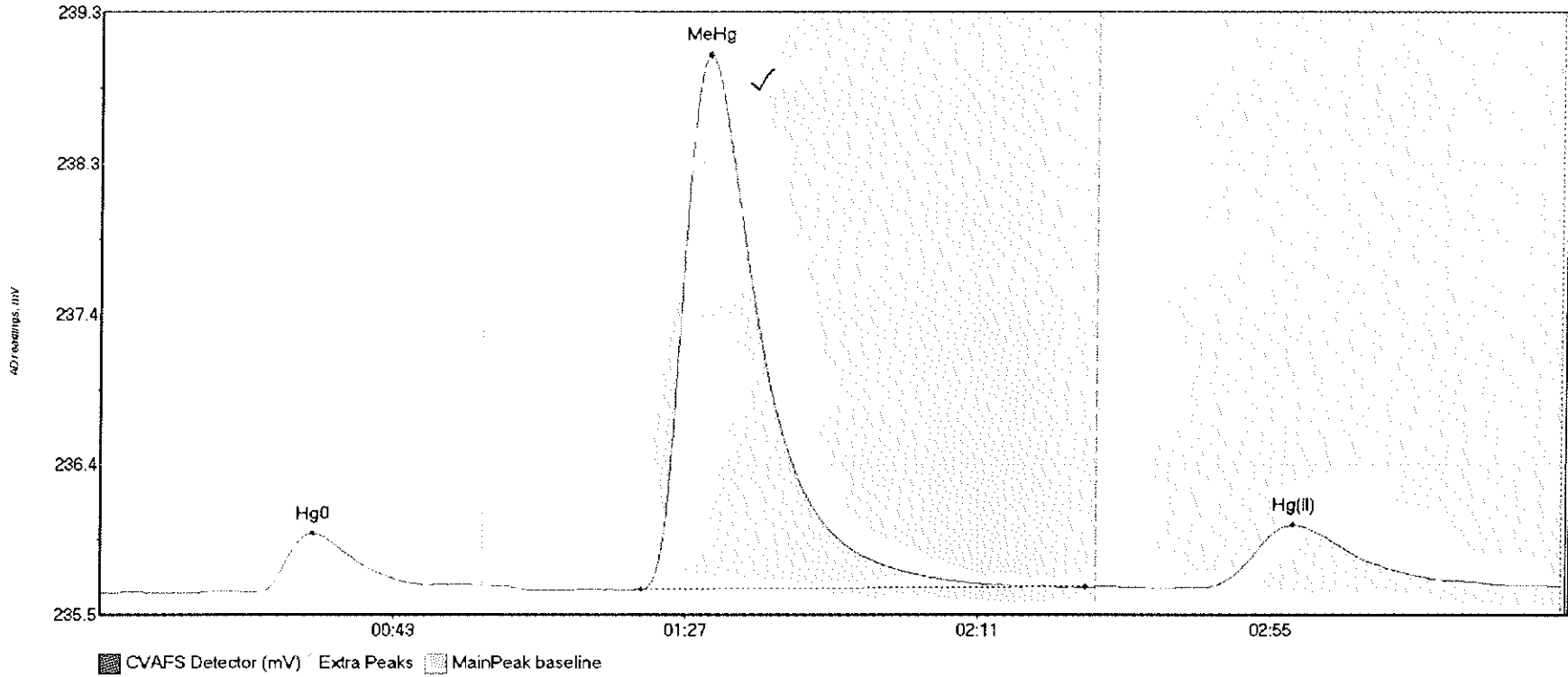
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-03RE1 H	41.789	23.8	55.3	235.59	235.64	32.3	0.372	OK	235.5974	0.00	0.05	
1608071-03RE1 M	281.289	80.9	139.8	235.62	235.62	91.3	2.037	OK	235.5974	0.00	0.05	
1608071-03RE1 H	69.399	161.9	218.9	235.62	235.65	179.4	0.393	OK	235.5974	0.00	0.05	

#44: 1608071-04RE1



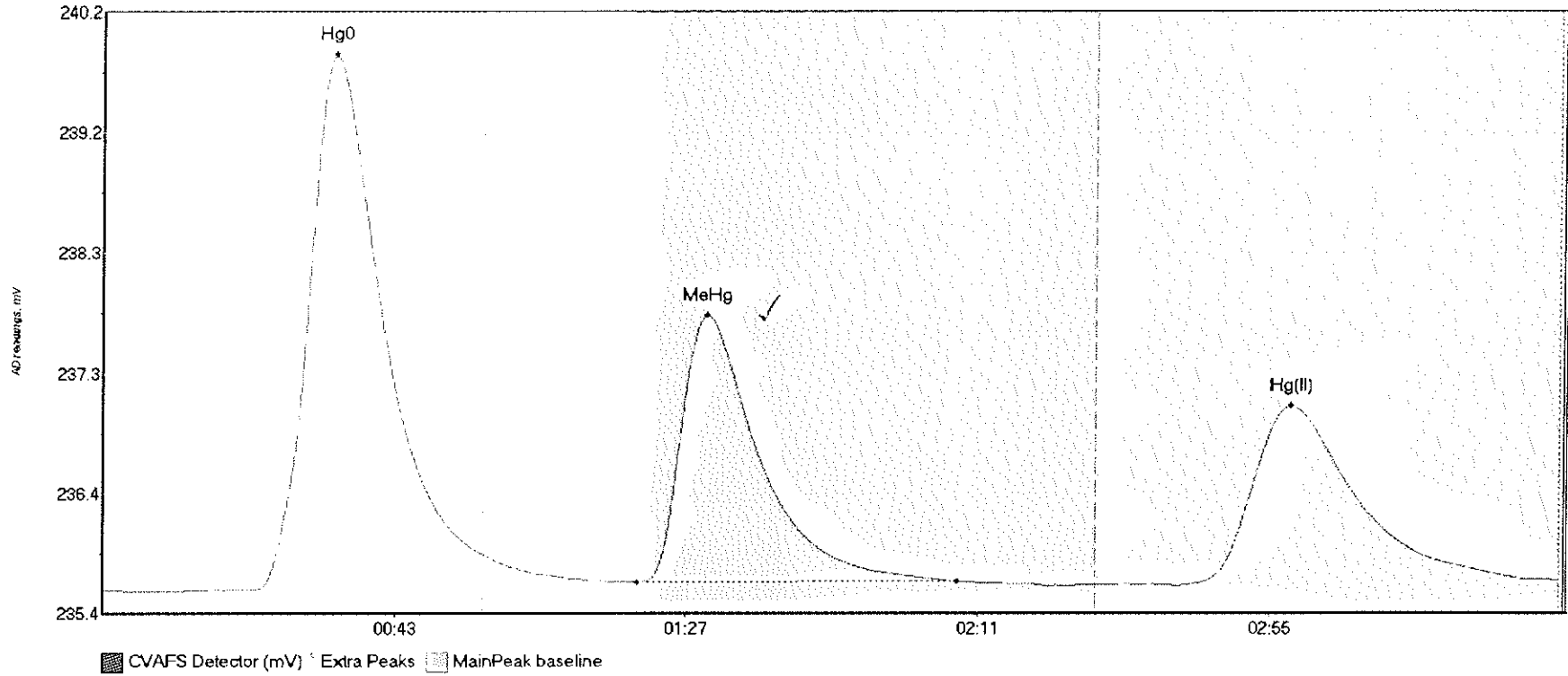
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-04RE1 H	44.698	11.6	57.5	235.60	235.65	31.6	0.398	CT	235.6031	0.00	0.05	
1608071-04RE1 M	550.392	80.2	147.2	235.64	235.64	91.1	4.025	OK	235.6031	0.00	0.05	
1608071-04RE1 H	87.348	165.7	217.5	235.65	235.65	179.5	0.486	OK	235.6031	0.00	0.05	

#45: 1608071-10RE1



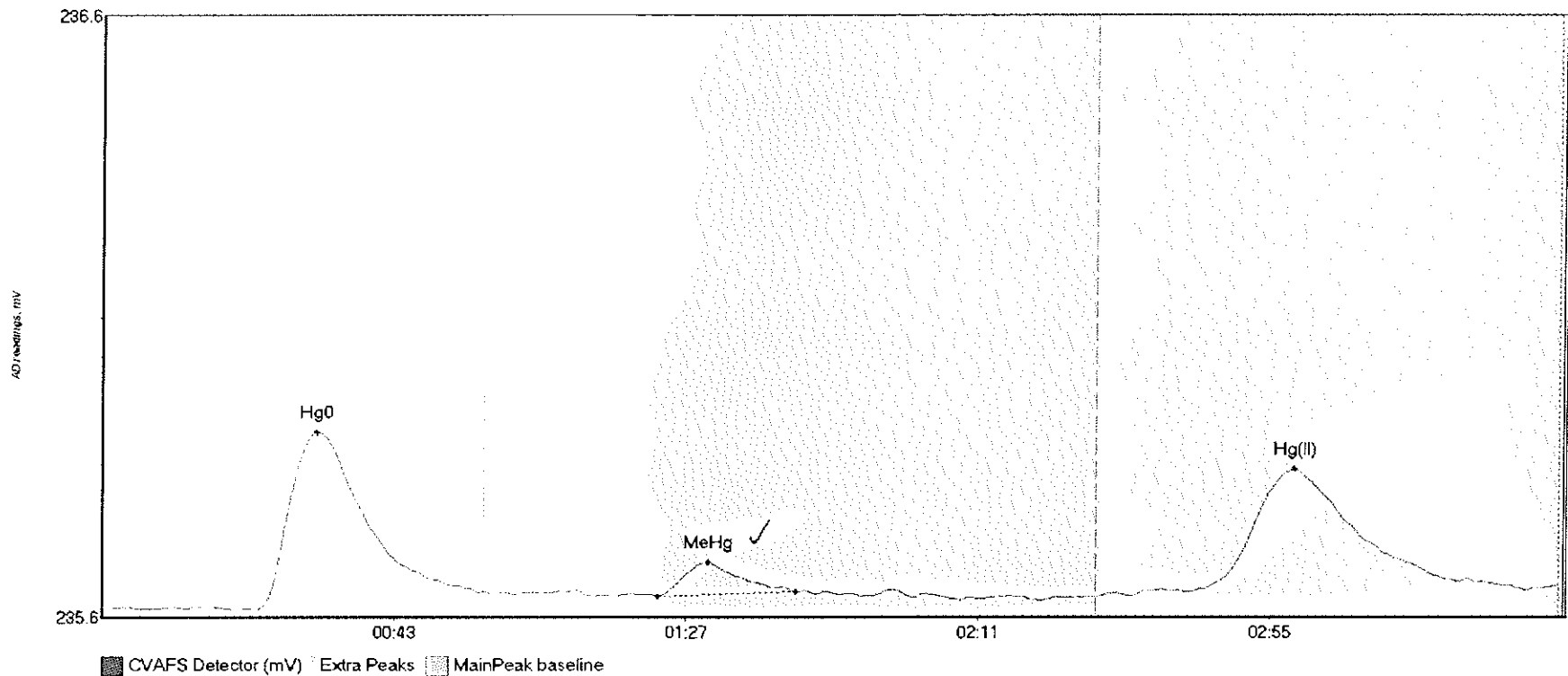
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-10RE1 H	39.101	13.7	49.0	235.61	235.66	32.0	0.380	OK	235.6084	0.00	0.04	
1608071-10RE1 M	466.887	81.4	148.3	235.63	235.65	91.5	3.390	OK	235.6084	0.00	0.04	
1608071-10RE1 H	69.470	166.0	214.2	235.65	235.66	179.5	0.394	OK	235.6084	0.00	0.04	

#46: SEQ-CCV3



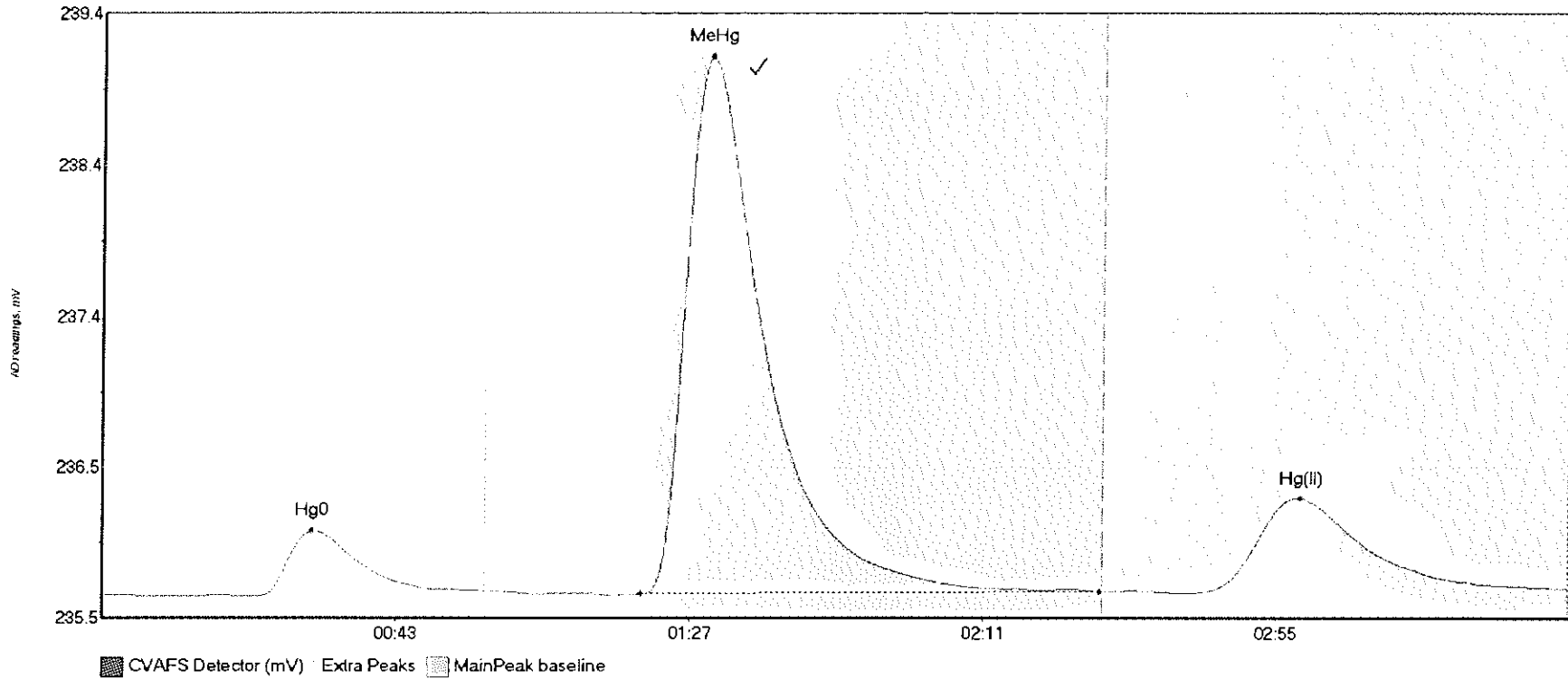
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV3 Hg0	504.875	15.5	57.5	235.61	235.89	35.0	4.234	CT	235.6049	0.00	0.09	
SEQ-CCV3 MeHg	284.650	80.8	128.9	235.67	235.68	91.2	2.113	OK	235.6049	0.00	0.09	
SEQ-CCV3 Hg(II)	254.074	162.4	219.8	235.65	235.69	179.2	1.422	CT	235.6049	0.00	0.09	

#47: SEQ-CCB3



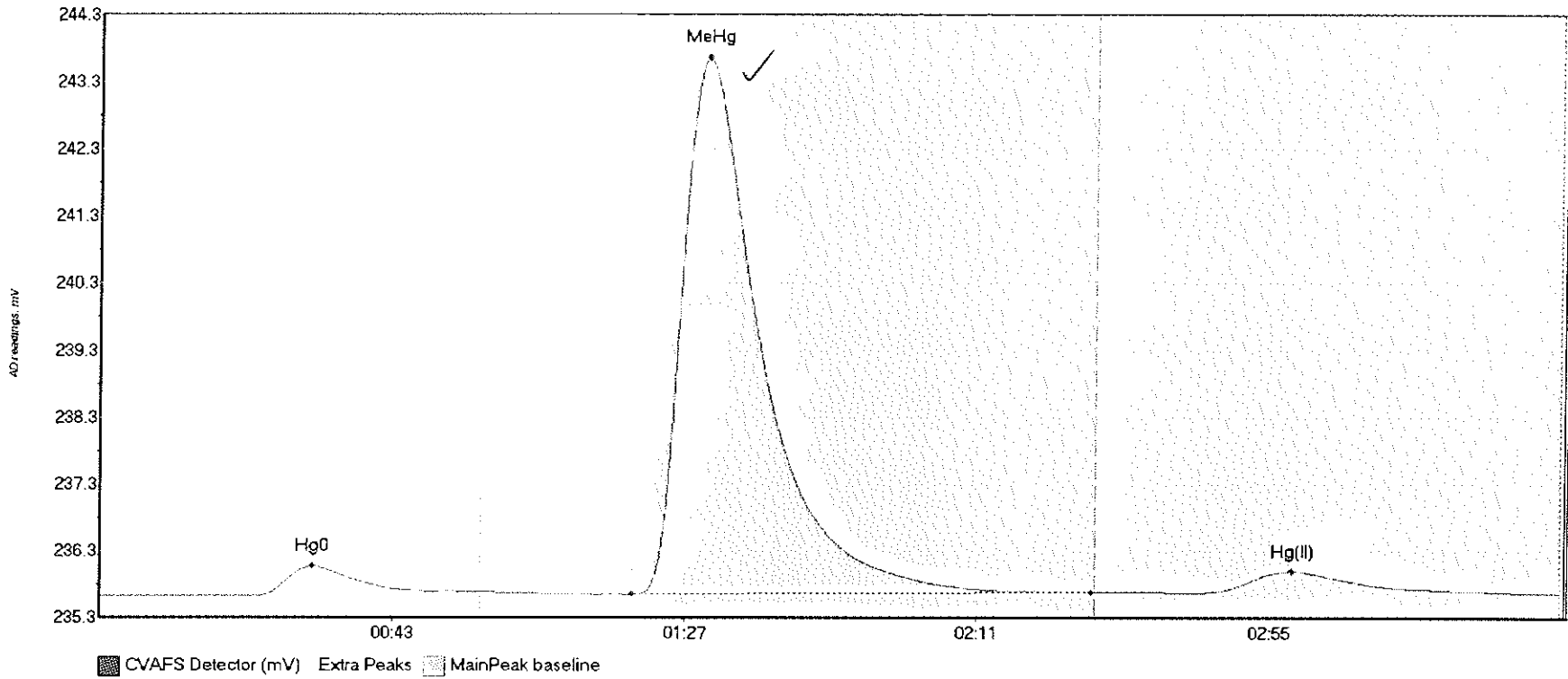
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	37.257	23.0	56.8	235.61	235.64	32.5	0.297	OK	235.6187	0.00	0.04	
SEQ-CCB3 MeHg	5.174	83.8	104.6	235.64	235.64	91.4	0.056	OK	235.6187	0.00	0.04	
SEQ-CCB3 Hg(II)	38.544	155.3	214.9	235.64	235.65	179.7	0.210	OK	235.6187	0.00	0.04	

#48: 1608071-02RE1/2 *Div 43014*



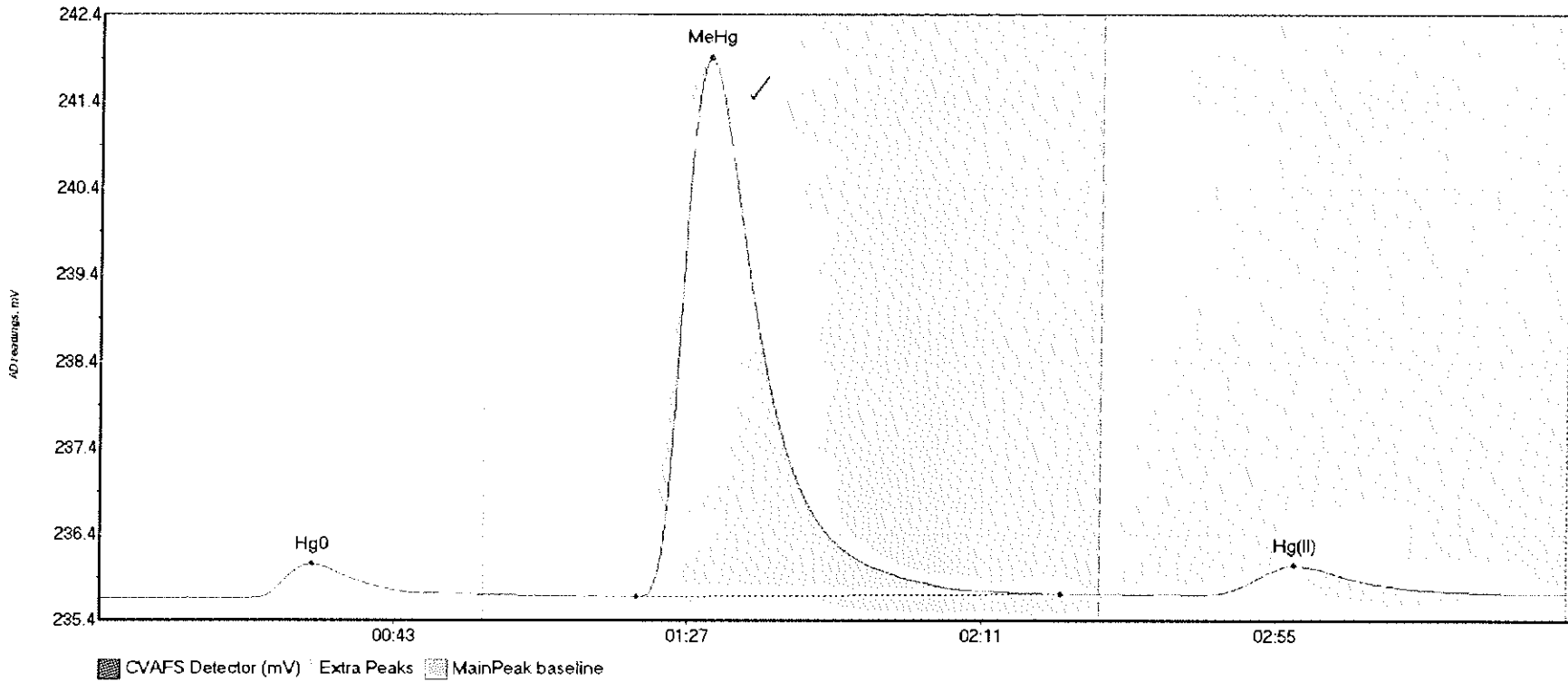
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1608071-02RE1 H	49.817	22.8	57.5	235.62	235.66	31.5	0.424	CT	235.6332	0.00	0.04	
1608071-02RE1 M	476.967	80.7	149.5	235.64	235.66	91.1	3.452	OK	235.6332	0.00	0.04	
1608071-02RE1 H	110.814	163.4	218.1	235.64	235.67	179.7	0.613	OK	235.6332	0.00	0.04	

#49: F609212-MS5



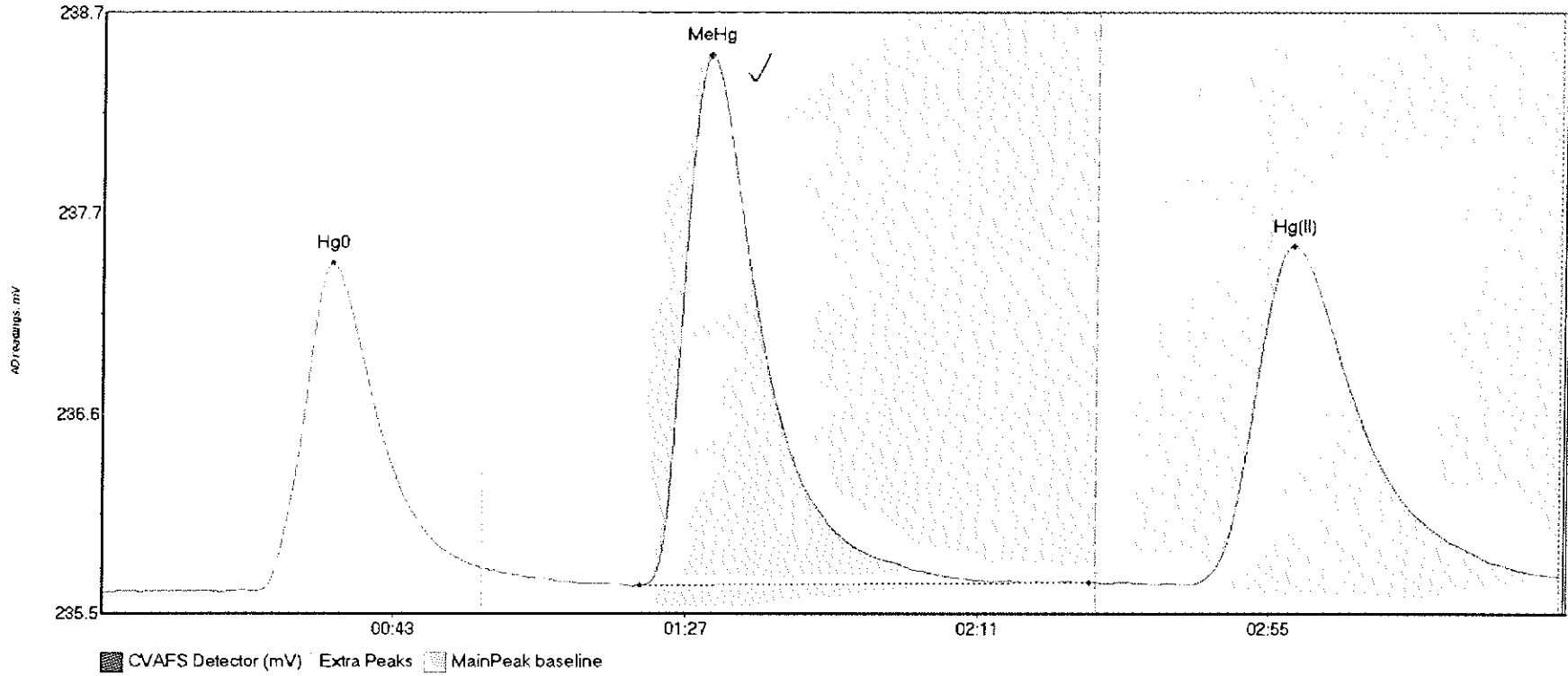
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-MS5 Hg0	49.734	23.5	57.5	235.62	235.68	32.0	0.443	CT	235.6194	0.00	0.05	
F609212-MS5 MeH	1097.402	80.2	149.3	235.64	235.68	91.3	7.986	OK	235.6194	0.00	0.05	
F609212-MS5 Hg(	55.394	165.1	210.2	235.67	235.68	179.5	0.324	OK	235.6194	0.00	0.05	

#50: F609212-MSD5



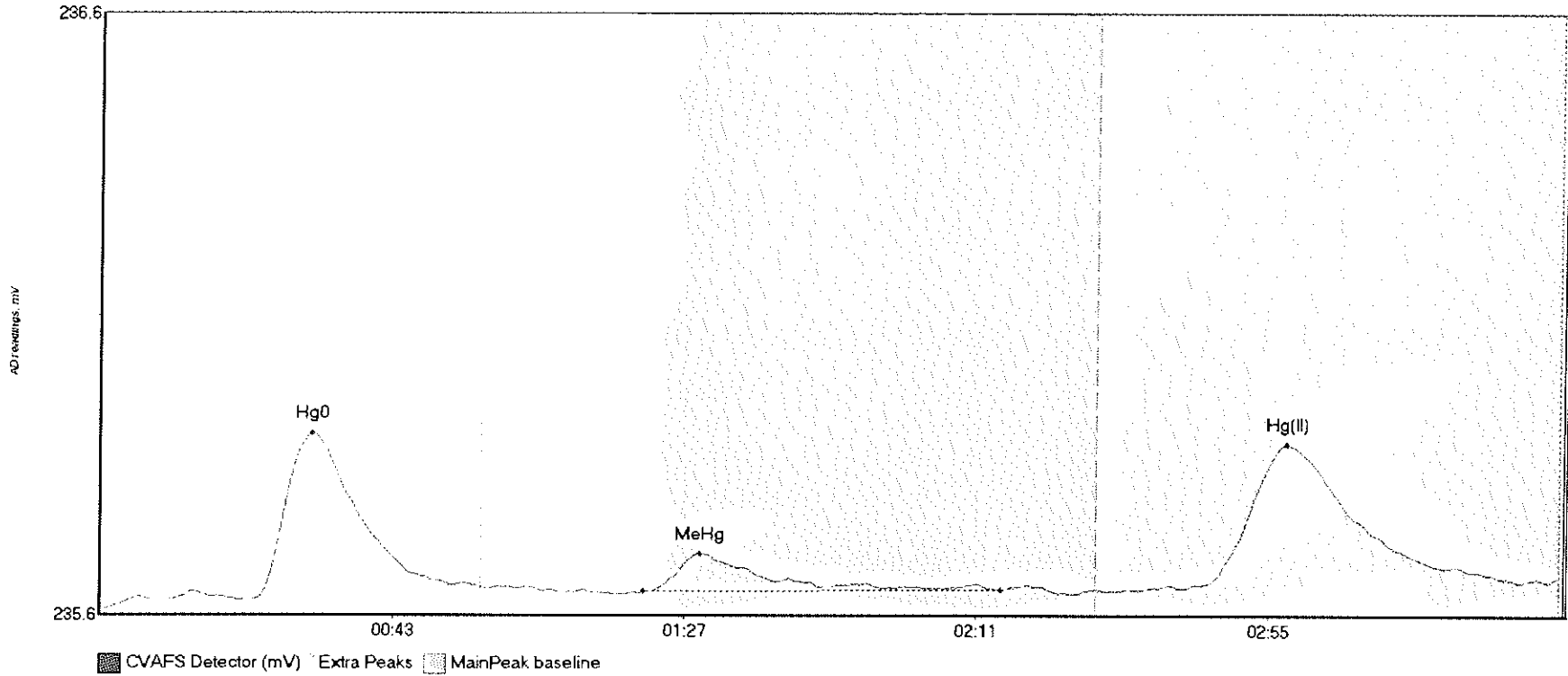
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	ElDev	ElShift	Comment
F609212-MSD5 Hg	45.569	22.3	57.5	235.63	235.67	31.8	0.392	CT	235.6313	0.00	0.05	
F609212-MSD5 Me	855.669	80.4	144.0	235.65	235.68	91.1	6.211	OK	235.6313	0.00	0.05	
F609212-MSD5 Hg	56.580	165.4	212.6	235.67	235.68	178.9	0.336	OK	235.6313	0.00	0.05	

#51: SEQ-CCV4



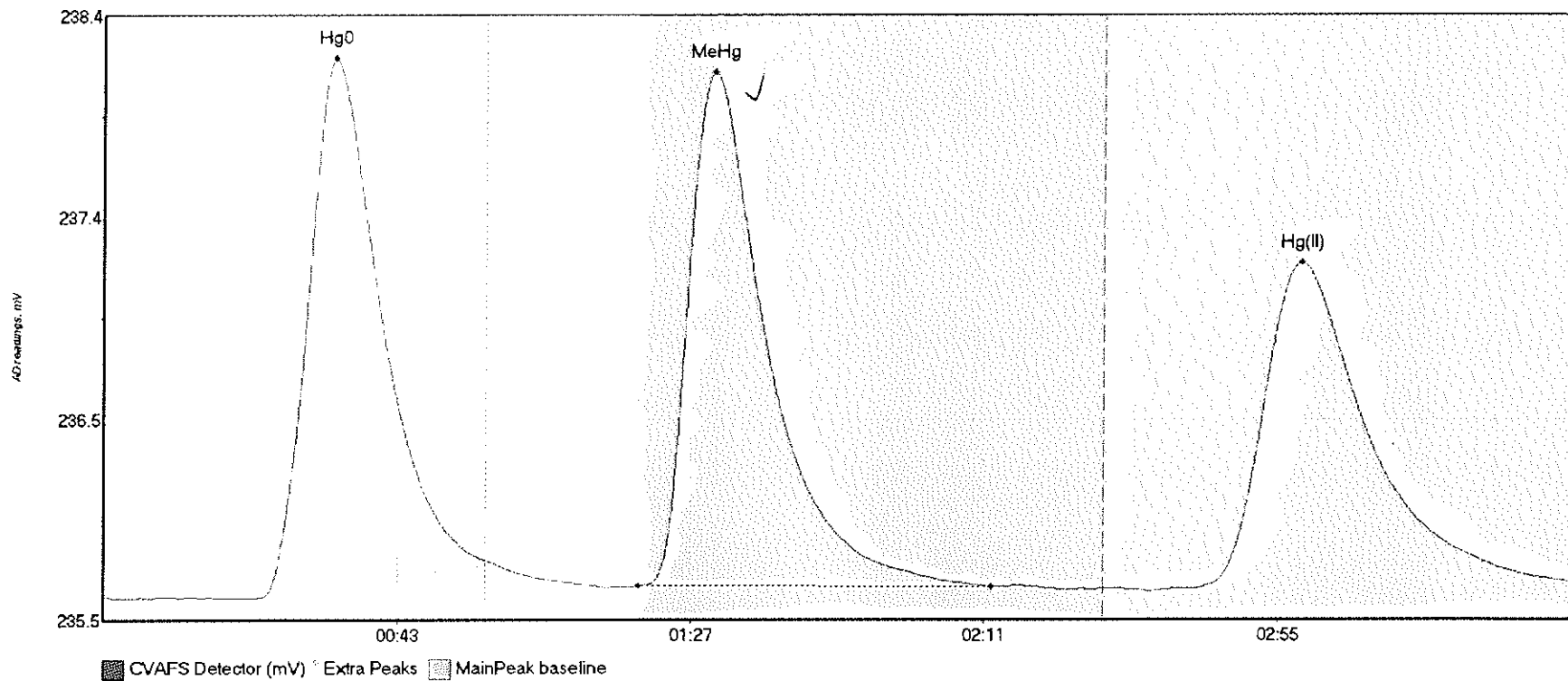
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	214.923	18.1	57.5	235.64	235.77	34.7	1.751	CF	235.6399	0.00	0.09	
SEQ-CCV4 MeHg	389.637	81.1	148.9	235.67	235.69	91.5	2.823	OK	235.6399	0.00	0.09	
SEQ-CCV4 Hg(II)	325.914	164.3	219.8	235.68	235.72	179.6	1.805	CF	235.6399	0.00	0.09	

#52: SEQ-CCB4 ✓



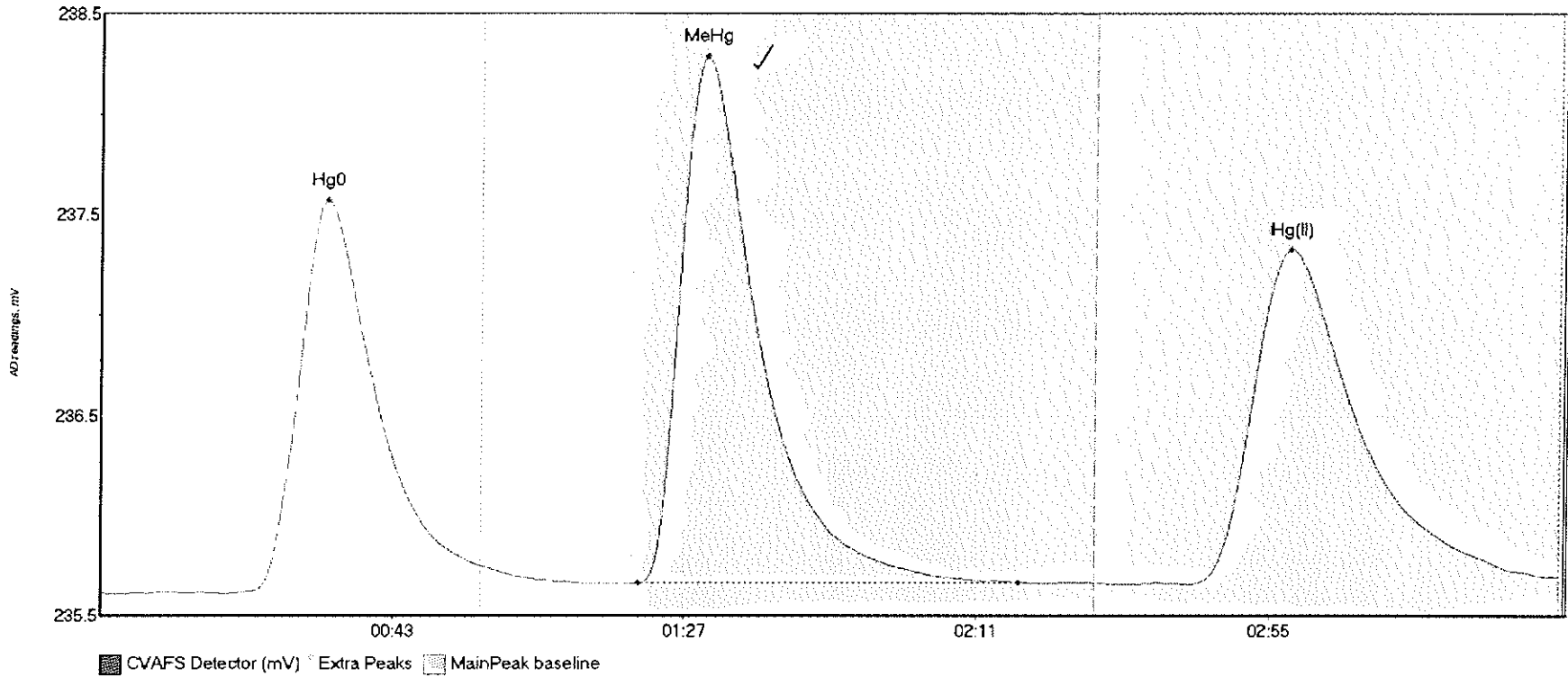
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	35.869	0.8	57.5	235.63	235.67	31.9	0.292	CT	235.6340	0.00	0.05	
SEQ-CCB4 MeHg	9.597	81.9	135.8	235.66	235.66	90.3	0.063	OK	235.6340	0.00	0.05	
SEQ-CCB4 Hg(II)	42.677	163.7	213.9	235.67	235.68	178.7	0.238	OK	235.6340	0.00	0.05	

#53: SEQ-CCV5



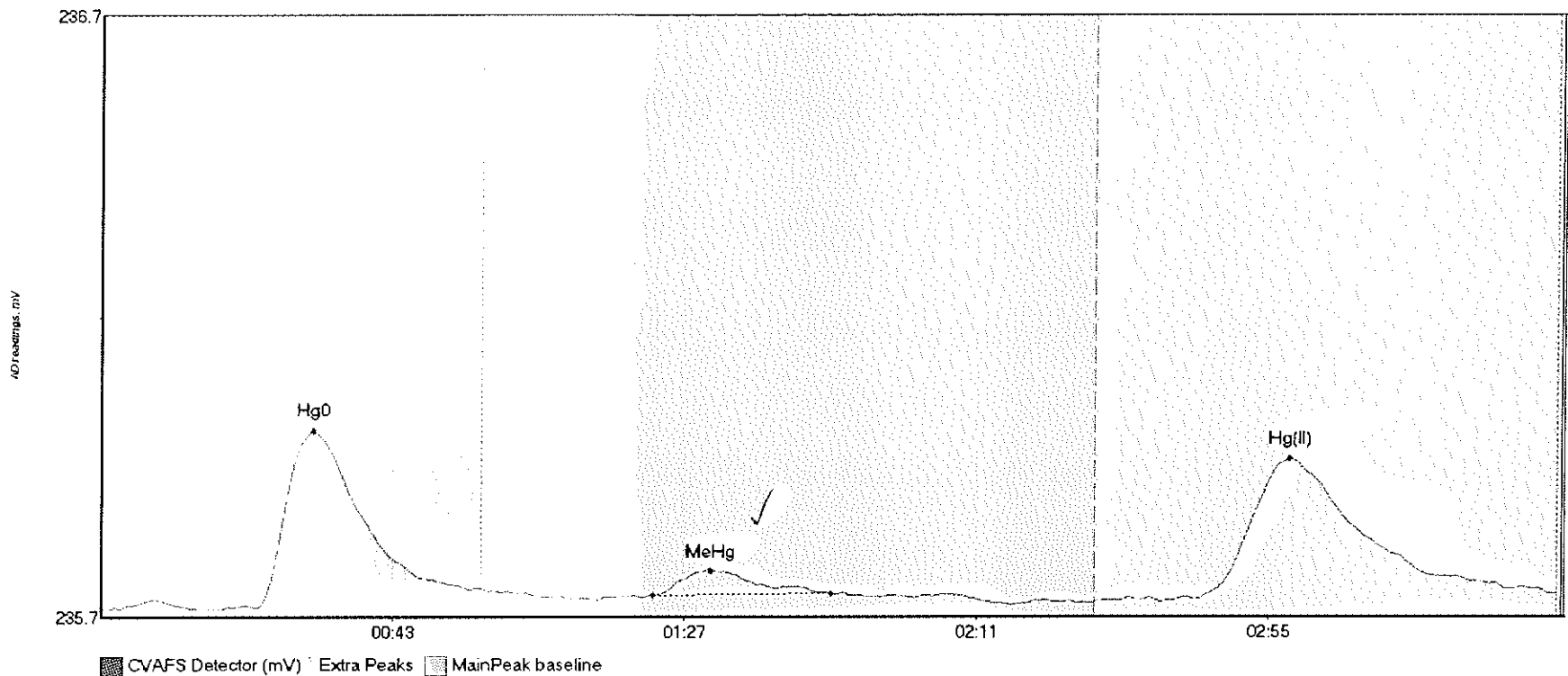
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	308.864	22.5	57.5	235.65	235.82	34.6	2.534	CT	235.6473	0.00	0.07	
SEQ-CCV5 MeHg	328.980	80.1	133.1	235.70	235.70	91.4	2.412	OK	235.6473	0.00	0.07	
SEQ-CCV5 Hg(II)	274.231	163.7	219.8	235.69	235.72	179.5	1.531	CT	235.6473	0.00	0.07	

#54: SEQ-CCV6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
SEQ-CCV6 Hg0	235.537	19.1	57.5	235.65	235.79	34.1	1.907	CP	235.6573	0.00	0.08	
SEQ-CCV6 MeHg	346.587	81.2	138.4	235.71	235.71	91.2	2.549	OK	235.6573	0.00	0.08	
SEQ-CCV6 Hg(II)	291.523	164.3	219.5	235.70	235.74	179.2	1.621	OK	235.6573	0.00	0.08	

#55: SEQ-CCB5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB5 Hg0	36.102	23.5	55.4	235.67	235.70	32.1	0.294	OK	235.6638	0.00	0.03	
SEQ-CCB5 MeHg	5.257	83.3	110.1	235.69	235.69	92.0	0.042	OK	235.6638	0.00	0.03	
SEQ-CCB5 Hg(II)	43.522	165.2	218.7	235.68	235.69	179.2	0.232	OK	235.6638	0.00	0.03	

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

Analyst: Ryan Nelson	Sequence #: 6I09004
Reviewer: DAN WEHART 9/30/16	Dataset ID #: MHg27001-160930-1
Date:	WO #: Various
Batch #(s): F609212	Client(s): Various

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input 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:		Reviewer Initials:	
1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<i>R</i>	<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	<i>9/30/16</i>	<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	<input checked="" type="checkbox"/>
(d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries).	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(f) Check and compare masses (review prep bench sheet)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(g) Check and compare initial and final volumes	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(h) Do aliquots and dilutions written on benchsheet match those in Excel?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(i) Is the pH>3.0 for all distilled samples?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(j) Is the sequence #, analyst, date, and instrument # on the QC page?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(k) Is the analysis status correct? (analyzed/initial review/reviewed)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(l) Original prep bench sheet added to data package?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
3. High QA? WO#(s)/Client(s): _____	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		<input checked="" type="checkbox"/>
4. Client specific QC? (if Yes, refer to Project Notes/LIMS)	<input 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	<input checked="" type="checkbox"/>
Comments: _____				
7. 1st Calibration Standard % Recoveries (65-135%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments: _____				
8. RSD CF (≤ 15%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: _____				

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

Analyst: Ryan Nelson	Sequence #: 6I09004
Reviewer: 0	Dataset ID #: MHg27001-160930-1
Date: 9/30/2016	WO #: Various
Batch #(s): F609212	Client(s): Various

Analyst Initials:

R

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 type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
13. LCS/LCSD or BS/BSD RPD (< 25%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
14. Water: Average of Preparation Blanks < 0.045 ng/L and standard deviation of 0.015 ng/L?	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____			
15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____	<input 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 checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input 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: <u>QM-02</u>			
23. MSD (ASD) % Recoveries (65-130%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: <u>QM-02</u>			
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 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 #: 6I09004
Reviewer: 0	Dataset ID #: MHg27001-160930-1
Date: 9/30/2016	WO #: Various
Batch #(s): F609212	Client(s): Various

Analyst Initials:

Reviewer Initials:

- | | | | | |
|--|---|--|---|-------------------------------------|
| 29. Are re-runs noted with reason?
Comments: _____ | <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 checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 32. Are qualifiers consistent with the data review flowcharts?
Comments: <u>QM-02</u> | <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 checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input 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 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 type="checkbox"/> YES | <input type="checkbox"/> NO | | <input checked="" type="checkbox"/> |
| 40. Date of LOD: <u>4/21/2016</u> LOD within last 3 months (within 12 months for MDN)? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 41. Date of LOQ: <u>4/21/2016</u> LOQ within last 3 months (within 12 months for MDN)? | <input 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 checked="" type="checkbox"/> NO | | <input checked="" type="checkbox"/> |



Frontier Global Sciences

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

13 October 2016

Denise King
AMEC Foster Wheeler
511 Congress Street
Portland, ME 04101

RE: Penobscot Sediments Hg and Methyl Hg 2016

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 "Amy Goodall".

Amy Goodall
Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ES-04_072816_SED_03	1608071-01	Soil/Sediment	28-Jul-16 10:30	02-Aug-16 09:35
E-01-01_072816_SED_03	1608071-02	Soil/Sediment	28-Jul-16 11:40	02-Aug-16 09:35
E-01-03_072816_SED_03	1608071-03	Soil/Sediment	28-Jul-16 15:10	02-Aug-16 09:35
E-01-04_072816_SED_03	1608071-04	Soil/Sediment	28-Jul-16 15:50	02-Aug-16 09:35
ES-03_072816_SED_03	1608071-05	Soil/Sediment	28-Jul-16 11:20	02-Aug-16 09:35
ES-FP_072816_SED_03	1608071-06	Soil/Sediment	28-Jul-16 14:30	02-Aug-16 09:35
ES-FP_072816_SED_03_DUP	1608071-07	Soil/Sediment	28-Jul-16 14:30	02-Aug-16 09:35
MMPOLY_072916_SED_03	1608071-10	Soil/Sediment	29-Jul-16 14:30	02-Aug-16 09:35
L9-45_072816_SED_03	1608071-11	Soil/Sediment	28-Jul-16 09:30	02-Aug-16 09:35
Ponar_072916_SED_QC	1608071-12	Water	29-Jul-16 08:25	02-Aug-16 09:35
Shovel_072916_SED_QC	1608071-13	Water	29-Jul-16 08:20	02-Aug-16 09:35
Spoon_072916_SED_QC	1608071-14	Water	29-Jul-16 08:15	02-Aug-16 09:35

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.

Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

SAMPLE RECEIPT

Samples were received at Eurofins Frontier Global Sciences (EFGS) on 8/2/2016 9:35:00 AM . The samples were received intact, on-ice within a sealed cooler at 8.8 degrees Celsius.

SAMPLE PREPARATION AND ANALYSIS

Total solids analysis was performed in accordance with method SM2540B. Total solids are prepared at the same time as the preparation for the analyte(s) of interest in order to provide the most accurate dry mass correction which may be outside of the method recommended holding time of 7 days from sample collection.

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

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.

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.

Amy Goodall, Project Manager



Frontier Global Sciences

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

AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

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.

Amy Goodall, Project Manager

Sample Receipt Checklist

EFGS Work Order: 1608071

Client: USDC Penobscot

Date & Time Received: 8/2/16 9:35

Date Labeled: 8/3/16 Labeled By: CSJ

Project: _____

Received By: WLF

Label Verified By: LM

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

Coolant: None/Ambient Loose Ice Gel Ice Dry Ice Coolant Required: Y N Temp Blank Used: Y N for Cooler(s): 1

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

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

TID: <u>1119431</u>	CF: <u>7.0</u>	°C	Date/time: <u>8/2/16 9:35</u>	By: <u>WLF</u>
Cooler 1: <u>8.4</u>	°C	w/ CF: <u>8.8</u>	°C	Cooler 4: °C w/ CF: °C
Cooler 2: °C	w/ CF: °C	Cooler 5: °C	w/ CF: °C	
Cooler 3: °C	w/ CF: °C	Cooler 6: °C	w/ CF: °C	

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

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

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

1608071

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: Eurofins

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
1542	7/28/2016	10:30	ES-04_072816_SED_03		1					
				FS	1	2 oz	Plastic	4 deg C	SED	Total Hg (1631e)/Total MeHg (1630)
1545	7/28/2016	11:40	E-01-01_072816_SED_03		1					
				FS	1	2 oz	Plastic	4 deg C	SED	Total Hg (1631e)/Total MeHg (1630)
1546	7/28/2016	15:10	E-01-03_072816_SED_03		1					
				FS	1	2 oz	Plastic	4 deg C	SED	Total Hg (1631e)/Total MeHg (1630)
1547	7/28/2016	15:50	E-01-04_072816_SED_03		1					
				FS	1	2 oz	Plastic	4 deg C	SED	Total Hg (1631e)/Total MeHg (1630)
1576	7/28/2016	11:20	ES-03_072816_SED_03		1					
				FS	1	2 oz	Plastic	4 deg C	SED	Total Hg (1631e)/Total MeHg (1630)
1578	7/28/2016	14:30	ES-FP_072816_SED_03		1					
				FS	1	2 oz	Plastic	4 deg C	SED	Total Hg (1631e)/Total MeHg (1630)
1579	7/28/2016	14:30	ES-FP_072816_SED_03_DUP		1					
				FD	1	2 oz	Plastic	4 deg C	SED	Total Hg (1631e)/Total MeHg (1630)
1580	7/28/2016	14:30	ES-FP_072816_SED_03_MS		1					
				MS	1	2 oz	Plastic	4 deg C	SED	Total Hg (1631e)/Total MeHg (1630)

Monday, August 01, 2016

Truck: 8049 4409 6882
Page 1 of 3

Seal intact
8.8°C
FedEx
9:35

Page 1 of 2
Connor Felt
Connor Felt
EFIS
8/2/16

1608071

<i>Samp #</i>	<i>Sample Date</i>	<i>Sample Time</i>	<i>Field Sample ID</i>	<i>QC Code</i>	<i>Qty Total</i>	<i>Qty Each</i>	<i>Bottle Size and Material</i>	<i>Preservative</i>	<i>Media Method</i>	<i>Fraction</i>
1581	7/28/2016	14:30	ES-FP_072816_SED_03_MD		1					
				MSD	1	2 oz	Plastic	4 deg C	SED Total Hg (1631e)/Total MeHg (1630)	T
1582	7/29/2016	14:30	MMPOLY_072916_SED_03		1					
				FS	1	2 oz	Plastic	4 deg C	SED Total Hg (1631e)/Total MeHg (1630)	T
1584	7/28/2016	9:30	L9-45_072816_SED_03		1					
				FS	1	2 oz	Plastic	4 deg C	SED Total Hg (1631e)/Total MeHg (1630)	T
1595	7/29/2016	8:25	Ponar_072916_SED_QC		1					
				EB	1	250 mL	PETG	4 deg C	BW Total Hg (1631e)	T
1597	7/29/2016	8:20	Shovel_072916_SED_QC		1					
				EB	1	250 mL	PETG	4 deg C	BW Total Hg (1631e)	T
1611	7/29/2016	8:15	Spoon_072916_SED_QC		1					
				EB	1	250 mL	PETG	4 deg C	BW Total Hg (1631e)	T

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

Relinquished: Matthew [Signature] Date: 08 / 01 / 2016 Time: 10:00

Received: _____ Date: _____ / _____ / _____ Time: _____

Monday, August 01, 2016



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

ES-04_072816_SED_03
1608071-01

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-019 Solids Analysis

% Solids	32.4	0.1	0.1	% by Weight	1	F609218	01-Sep-16		02-Sep-16	SM 2540B	O-04
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Sample Preparation: EFGS-045 MeCl2 Extraction for Methyl Hg

Methyl Mercury (as Mercury)	1.58	0.044	0.149	ng/g dry	1	F609212	08-Sep-16	6I09004	08-Sep-16	EPA 1630 Mod/FGS-070	
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Sample Preparation: EFGS-066 Cold Aqua Regia Digestion for Hg

Mercury	297	1.44	13.1	ng/g dry	100	F609214	01-Sep-16	6I07006	06-Sep-16	EPA 1631B	
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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

E-01-01_072816_SED_03
1608071-02

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-019 Solids Analysis											
% Solids	31.3	0.1	0.1	% by Weight	1	F609218	01-Sep-16		02-Sep-16	SM 2540B	O-04
Sample Preparation: EFGS-045 MeCl2 Extraction for Methyl Hg											
Methyl Mercury (as Mercury)	12.3	0.418	1.43	ng/g dry	10	F609212	08-Sep-16	6109004	08-Sep-16	EPA 1630 Mod/FGS-070	
Sample Preparation: EFGS-066 Cold Aqua Regia Digestion for Hg											
Mercury	1100	7.88	71.7	ng/g dry	500	F609214	01-Sep-16	6107006	06-Sep-16	EPA 1631B	

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

E-01-03_072816_SED_03
1608071-03

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-019 Solids Analysis											
% Solids	34.9	0.1	0.1	% by Weight	1	F609218	01-Sep-16		02-Sep-16	SM 2540B	O-04
Sample Preparation: EFGS-045 MeCl2 Extraction for Methyl Hg											
Methyl Mercury (as Mercury)	6.72	0.389	1.33	ng/g dry	10	F609212	08-Sep-16	6109004	08-Sep-16	EPA 1630 Mod/FGS-070	
Sample Preparation: EFGS-066 Cold Aqua Regia Digestion for Hg											
Mercury	513	6.77	61.6	ng/g dry	500	F609214	01-Sep-16	6107006	06-Sep-16	EPA 1631B	

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

E-01-04_072816_SED_03
1608071-04

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-019 Solids Analysis											
% Solids	44.9	0.1	0.1	% by Weight	1	F609218	01-Sep-16		02-Sep-16	SM 2540B	O-04
Sample Preparation: EFGS-045 MeCl2 Extraction for Methyl Hg											
Methyl Mercury (as Mercury)	9.38	0.277	0.944	ng/g dry	10	F609212	08-Sep-16	6109004	08-Sep-16	EPA 1630 Mod/FGS-070	
Sample Preparation: EFGS-066 Cold Aqua Regia Digestion for Hg											
Mercury	579	5.20	47.3	ng/g dry	500	F609214	01-Sep-16	6107006	06-Sep-16	EPA 1631B	

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

ES-03_072816_SED_03
1608071-05

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-019 Solids Analysis											
% Solids	38.2	0.1	0.1	% by Weight	1	F609218	01-Sep-16		02-Sep-16	SM 2540B	O-04
Sample Preparation: EFGS-045 MeCl2 Extraction for Methyl Hg											
Methyl Mercury (as Mercury)	3.74	0.037	0.127	ng/g dry	1	F609212	08-Sep-16	6109004	08-Sep-16	EPA 1630 Mod/FGS-070	
Sample Preparation: EFGS-066 Cold Aqua Regia Digestion for Hg											
Mercury	1090	6.78	61.7	ng/g dry	500	F609416	16-Sep-16	6120016	19-Sep-16	EPA 1631B	

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

ES-FP_072816_SED_03
1608071-06

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-019 Solids Analysis											
% Solids	75.6	0.1	0.1	% by Weight	1	F609218	01-Sep-16		02-Sep-16	SM 2540B	O-04
Sample Preparation: EFGS-045 MeCl2 Extraction for Methyl Hg											
Methyl Mercury (as Mercury)	1.50	0.019	0.063	ng/g dry	1	F609212	08-Sep-16	6109004	08-Sep-16	EPA 1630 Mod/FGS-070	
Sample Preparation: EFGS-066 Cold Aqua Regia Digestion for Hg											
Mercury	43.0	0.64	5.86	ng/g dry	100	F609416	16-Sep-16	6120016	19-Sep-16	EPA 1631B	

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

ES-FP_072816_SED_03_DUP
1608071-07

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-019 Solids Analysis											
% Solids	74.5	0.1	0.1	% by Weight	1	F609218	01-Sep-16		02-Sep-16	SM 2540B	O-04, O-09
Sample Preparation: EFGS-045 MeCl2 Extraction for Methyl Hg											
Methyl Mercury (as Mercury)	0.936	0.017	0.059	ng/g dry	1	F609212	08-Sep-16	6109004	08-Sep-16	EPA 1630 Mod/FGS-070	
Sample Preparation: EFGS-066 Cold Aqua Regia Digestion for Hg											
Mercury	37.8	0.65	5.90	ng/g dry	100	F609416	16-Sep-16	6120016	19-Sep-16	EPA 1631B	

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

MMPOLY_072916_SED_03
1608071-10

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-019 Solids Analysis											
% Solids	46.7	0.1	0.1	% by Weight	1	F609419	16-Sep-16		20-Sep-16	SM 2540B	O-04, O-09
Sample Preparation: EFGS-045 MeCl2 Extraction for Methyl Hg											
Methyl Mercury (as Mercury)	7.83	0.272	0.929	ng/g dry	10	F609212	08-Sep-16	6109004	08-Sep-16	EPA 1630 Mod/FGS-070	
Sample Preparation: EFGS-066 Cold Aqua Regia Digestion for Hg											
Mercury	488	1.07	9.70	ng/g dry	100	F609416	16-Sep-16	6120016	19-Sep-16	EPA 1631B	

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

L9-45_072816_SED_03
1608071-11

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-019 Solids Analysis											
% Solids	76.2	0.1	0.1	% by Weight	1	F609419	16-Sep-16		20-Sep-16	SM 2540B	O-04, O-09
Sample Preparation: EFGS-045 MeCl2 Extraction for Methyl Hg											
Methyl Mercury (as Mercury)	0.669	0.019	0.064	ng/g dry	1	F609212	08-Sep-16	6109004	08-Sep-16	EPA 1630 Mod/FGS-070	
Sample Preparation: EFGS-066 Cold Aqua Regia Digestion for Hg											
Mercury	87.1	0.67	6.14	ng/g dry	100	F609416	16-Sep-16	6120016	19-Sep-16	EPA 1631B	

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Ponar_072916_SED_QC
1608071-12

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EPA 1631E BrCl Oxidation											
Mercury	2.20	0.08	0.50	ng/L	1	F608311	03-Aug-16	6H17008	16-Aug-16	EPA 1631E	

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Shovel_072916_SED_QC
1608071-13

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EPA 1631E BrCl Oxidation											
Mercury	0.58	0.08	0.50	ng/L	1	F608311	03-Aug-16	6H17008	16-Aug-16	EPA 1631E	

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Spoon_072916_SED_QC
1608071-14

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EPA 1631E BrCl Oxidation											
Mercury	0.16	0.08	0.50	ng/L	1	F608311	03-Aug-16	6H17008	16-Aug-16	EPA 1631E	J

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H17008 - F608311											
Cal Standard (6H17008-CAL1)					Prepared & Analyzed: 16-Aug-16						
Mercury	0.48	-		ng/L	0.50100		95.9				
Cal Standard (6H17008-CAL2)					Prepared & Analyzed: 16-Aug-16						
Mercury	0.97	-		ng/L	1.0020		96.6				
Cal Standard (6H17008-CAL3)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.07	-		ng/L	5.0100		101				
Cal Standard (6H17008-CAL4)					Prepared & Analyzed: 16-Aug-16						
Mercury	20.79	-		ng/L	20.040		104				
Cal Standard (6H17008-CAL5)					Prepared & Analyzed: 16-Aug-16						
Mercury	40.74	-		ng/L	40.080		102				
Calibration Blank (6H17008-CCB1)					Prepared & Analyzed: 16-Aug-16						
Mercury	-0.09	-		ng/L							U
Calibration Blank (6H17008-CCB2)					Prepared & Analyzed: 16-Aug-16						
Mercury	-0.10	-		ng/L							U
Calibration Blank (6H17008-CCB3)					Prepared & Analyzed: 16-Aug-16						
Mercury	-0.04	-		ng/L							U
Calibration Blank (6H17008-CCB4)					Prepared & Analyzed: 16-Aug-16						
Mercury	-0.05	-		ng/L							U
Calibration Blank (6H17008-CCB5)					Prepared & Analyzed: 16-Aug-16						
Mercury	-0.06	-		ng/L							U

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H17008 - F608311											
Calibration Blank (6H17008-CCB6) Prepared & Analyzed: 16-Aug-16											
Mercury	-0.05	-		ng/L							U
Calibration Blank (6H17008-CCB7) Prepared & Analyzed: 16-Aug-16											
Mercury	-0.04	-		ng/L							U
Calibration Blank (6H17008-CCB8) Prepared & Analyzed: 16-Aug-16											
Mercury	-0.04	-		ng/L							U
Calibration Blank (6H17008-CCB9) Prepared & Analyzed: 16-Aug-16											
Mercury	0.04	-		ng/L							U
Calibration Blank (6H17008-CCBA) Prepared & Analyzed: 16-Aug-16											
Mercury	-0.007	-		ng/L							U
Calibration Blank (6H17008-CCBB) Prepared & Analyzed: 16-Aug-16											
Mercury	-0.002	-		ng/L							U
Calibration Blank (6H17008-CCBC) Prepared & Analyzed: 16-Aug-16											
Mercury	-0.03	-		ng/L							U
Calibration Blank (6H17008-CCBD) Prepared & Analyzed: 16-Aug-16											
Mercury	-0.006	-		ng/L							U
Calibration Check (6H17008-CCV1) Prepared & Analyzed: 16-Aug-16											
Mercury	5.13	-		ng/L	5.0000		103	77-123			
Calibration Check (6H17008-CCV2) Prepared & Analyzed: 16-Aug-16											
Mercury	5.34	-		ng/L	5.0000		107	77-123			

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

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 6H17008 - F608311

Calibration Check (6H17008-CCV3)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.49	-		ng/L	5.0000		110	77-123			
Calibration Check (6H17008-CCV4)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.34	-		ng/L	5.0000		107	77-123			
Calibration Check (6H17008-CCV5)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.42	-		ng/L	5.0000		108	77-123			
Calibration Check (6H17008-CCV6)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.40	-		ng/L	5.0000		108	77-123			
Calibration Check (6H17008-CCV7)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.46	-		ng/L	5.0000		109	77-123			
Calibration Check (6H17008-CCV8)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.50	-		ng/L	5.0000		110	77-123			
Calibration Check (6H17008-CCV9)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.79	-		ng/L	5.0000		116	77-123			
Calibration Check (6H17008-CCVA)					Prepared & Analyzed: 16-Aug-16						
Mercury	6.06	-		ng/L	5.0000		121	77-123			
Calibration Check (6H17008-CCVB)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.92	-		ng/L	5.0000		118	77-123			
Calibration Check (6H17008-CCVC)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.82	-		ng/L	5.0000		116	77-123			

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AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6H17008 - F608311											
Calibration Check (6H17008-CCVD)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.78	-		ng/L	5.0000		116	77-123			
Instrument Blank (6H17008-IBL1)					Prepared & Analyzed: 16-Aug-16						
Mercury	ND	0.08	0.50	ng/L							U
Instrument Blank (6H17008-IBL2)					Prepared & Analyzed: 16-Aug-16						
Mercury	0.10	0.08	0.50	ng/L							
Instrument Blank (6H17008-IBL3)					Prepared & Analyzed: 16-Aug-16						
Mercury	ND	0.08	0.50	ng/L							U
Initial Cal Check (6H17008-ICV2)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.18	-		ng/L	5.0000		104	77-123			
Initial Cal Check (6H17008-ICV3)					Prepared & Analyzed: 16-Aug-16						
Mercury	5.30	-		ng/L	5.0000		106	77-123			
Batch 6I06005 - F609212											
Cal Standard (6I06005-CAL1)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	0.051	-		ng/L	0.050050		103				
Cal Standard (6I06005-CAL2)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	0.198	-		ng/L	0.20020		98.9				
Cal Standard (6I06005-CAL3)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	0.988	-		ng/L	1.0010		98.7				

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Amy Goodall, Project Manager

AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I06005 - F609212											
Cal Standard (6I06005-CAL4)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	1.939	-		ng/L	2.0020		96.9				
Cal Standard (6I06005-CAL5)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	4.096	-		ng/L	4.0040		102				
Calibration Blank (6I06005-CCB1)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	0.008	-		ng/L							
Calibration Blank (6I06005-CCB2)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	0.013	-		ng/L							
Calibration Blank (6I06005-CCB3)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	0.007	-		ng/L							
Calibration Check (6I06005-CCV1)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	0.543	-		ng/L	0.50049		109	67-133			
Calibration Check (6I06005-CCV2)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	0.522	-		ng/L	0.50049		104	67-133			
Calibration Check (6I06005-CCV3)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	0.539	-		ng/L	0.50049		108	67-133			
Instrument Blank (6I06005-IBL1)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	ND	0.017	0.058	ng/L							U
Initial Cal Blank (6I06005-ICB1)					Prepared & Analyzed: 03-Sep-16						
Methyl Mercury (as Mercury)	0.012	-		ng/L							

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Amy Goodall, Project Manager

AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

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 6I06005 - F609212

Initial Cal Check (6I06005-ICV1)

Prepared & Analyzed: 03-Sep-16

Methyl Mercury (as Mercury)	0.562	-		ng/L	0.50049		112	67-133			
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Batch 6I07006 - F608517

Cal Standard (6I07006-CAL1)

Prepared & Analyzed: 06-Sep-16

Mercury	0.52	-		ng/L	0.50100		104				
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Cal Standard (6I07006-CAL2)

Prepared & Analyzed: 06-Sep-16

Mercury	0.99	-		ng/L	1.0020		99.0				
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Cal Standard (6I07006-CAL3)

Prepared & Analyzed: 06-Sep-16

Mercury	4.94	-		ng/L	5.0100		98.6				
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Cal Standard (6I07006-CAL4)

Prepared & Analyzed: 06-Sep-16

Mercury	20.02	-		ng/L	20.040		99.9				
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Cal Standard (6I07006-CAL5)

Prepared & Analyzed: 06-Sep-16

Mercury	38.97	-		ng/L	40.080		97.2				
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Calibration Blank (6I07006-CCB1)

Prepared & Analyzed: 06-Sep-16

Mercury	0.06	-		ng/L							
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Calibration Blank (6I07006-CCB2)

Prepared & Analyzed: 06-Sep-16

Mercury	0.08	-		ng/L							
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Calibration Blank (6I07006-CCB3)

Prepared & Analyzed: 06-Sep-16

Mercury	0.08	-		ng/L							
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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I07006 - F608517											
Calibration Blank (6I07006-CCB4) Prepared & Analyzed: 06-Sep-16											
Mercury	0.07	-		ng/L							
Calibration Blank (6I07006-CCB5) Prepared & Analyzed: 06-Sep-16											
Mercury	0.03	-		ng/L							
Calibration Blank (6I07006-CCB6) Prepared & Analyzed: 06-Sep-16											
Mercury	0.05	-		ng/L							
Calibration Blank (6I07006-CCB7) Prepared & Analyzed: 06-Sep-16											
Mercury	0.05	-		ng/L							
Calibration Blank (6I07006-CCB8) Prepared & Analyzed: 06-Sep-16											
Mercury	0.08	-		ng/L							
Calibration Blank (6I07006-CCB9) Prepared & Analyzed: 06-Sep-16											
Mercury	0.11	-		ng/L							
Calibration Check (6I07006-CCV1) Prepared & Analyzed: 06-Sep-16											
Mercury	5.43	-		ng/L	5.0000		109	77-123			
Calibration Check (6I07006-CCV2) Prepared & Analyzed: 06-Sep-16											
Mercury	5.39	-		ng/L	5.0000		108	77-123			
Calibration Check (6I07006-CCV3) Prepared & Analyzed: 06-Sep-16											
Mercury	5.31	-		ng/L	5.0000		106	77-123			
Calibration Check (6I07006-CCV4) Prepared & Analyzed: 06-Sep-16											
Mercury	5.30	-		ng/L	5.0000		106	77-123			

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

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 6I07006 - F608517

Calibration Check (6I07006-CCV5)					Prepared & Analyzed: 06-Sep-16						
Mercury	5.31	-		ng/L	5.0000		106	77-123			
Calibration Check (6I07006-CCV6)					Prepared & Analyzed: 06-Sep-16						
Mercury	5.30	-		ng/L	5.0000		106	77-123			
Calibration Check (6I07006-CCV7)					Prepared & Analyzed: 06-Sep-16						
Mercury	5.76	-		ng/L	5.0000		115	77-123			
Calibration Check (6I07006-CCV8)					Prepared & Analyzed: 06-Sep-16						
Mercury	6.17	-		ng/L	5.0000		123	77-123			
Calibration Check (6I07006-CCV9)					Prepared & Analyzed: 06-Sep-16						
Mercury	6.03	-		ng/L	5.0000		121	77-123			
Instrument Blank (6I07006-IBL1)					Prepared & Analyzed: 06-Sep-16						
Mercury	ND	0.005	0.05	ng/L							U
Instrument Blank (6I07006-IBL2)					Prepared & Analyzed: 06-Sep-16						
Mercury	ND	0.005	0.05	ng/L							U
Instrument Blank (6I07006-IBL3)					Prepared & Analyzed: 06-Sep-16						
Mercury	ND	0.005	0.05	ng/L							U
Initial Cal Check (6I07006-ICV1)					Prepared & Analyzed: 06-Sep-16						
Mercury	5.46	-		ng/L	5.0000		109	77-123			

Batch 6I09004 - F609212

Cal Standard (6I09004-CAL1)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.048	-		ng/L	0.050050		95.0				

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I09004 - F609212											
Cal Standard (6I09004-CAL2)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.209	-		ng/L	0.20020		105				
Cal Standard (6I09004-CAL3)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.934	-		ng/L	1.0010		93.3				
Cal Standard (6I09004-CAL4)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	2.122	-		ng/L	2.0020		106				
Cal Standard (6I09004-CAL5)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	4.029	-		ng/L	4.0040		101				
Calibration Blank (6I09004-CCB1)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.025	-		ng/L							
Calibration Blank (6I09004-CCB2)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.015	-		ng/L							
Calibration Blank (6I09004-CCB3)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.008	-		ng/L							
Calibration Blank (6I09004-CCB4)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.016	-		ng/L							
Calibration Blank (6I09004-CCB5)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.008	-		ng/L							
Calibration Check (6I09004-CCV1)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.634	-		ng/L	0.50049		127	67-133			

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

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 6I09004 - F609212

Calibration Check (6I09004-CCV2)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.513	-		ng/L	0.50049		103	67-133			
Calibration Check (6I09004-CCV3)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.519	-		ng/L	0.50049		104	67-133			
Calibration Check (6I09004-CCV5)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.600	-		ng/L	0.50049		120	67-133			
Calibration Check (6I09004-CCV6)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.633	-		ng/L	0.50049		126	67-133			
Instrument Blank (6I09004-IBL1)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	ND	0.017	0.058	ng/L							U
Initial Cal Blank (6I09004-ICB1)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.019	-		ng/L							
Initial Cal Check (6I09004-ICV1)					Prepared & Analyzed: 08-Sep-16						
Methyl Mercury (as Mercury)	0.571	-		ng/L	0.50049		114	67-133			

Batch 6I20016 - F609416

Cal Standard (6I20016-CAL1)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.46	-		ng/L	0.50100		91.6				
Cal Standard (6I20016-CAL2)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.96	-		ng/L	1.0020		95.3				

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I20016 - F609416											
Cal Standard (6I20016-CAL3)					Prepared & Analyzed: 19-Sep-16						
Mercury	5.37	-		ng/L	5.0100		107				
Cal Standard (6I20016-CAL4)					Prepared & Analyzed: 19-Sep-16						
Mercury	20.72	-		ng/L	20.040		103				
Cal Standard (6I20016-CAL5)					Prepared & Analyzed: 19-Sep-16						
Mercury	40.66	-		ng/L	40.080		101				
Calibration Blank (6I20016-CCB1)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.11	-		ng/L							
Calibration Blank (6I20016-CCB2)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.06	-		ng/L							
Calibration Blank (6I20016-CCB3)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.22	-		ng/L							
Calibration Blank (6I20016-CCB4)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.13	-		ng/L							
Calibration Blank (6I20016-CCB5)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.10	-		ng/L							
Calibration Blank (6I20016-CCB6)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.15	-		ng/L							
Calibration Blank (6I20016-CCB7)					Prepared & Analyzed: 19-Sep-16						
Mercury	0.20	-		ng/L							

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I20016 - F609416											
Calibration Blank (6I20016-CCB8) Prepared & Analyzed: 19-Sep-16											
Mercury	0.14	-		ng/L							
Calibration Blank (6I20016-CCB9) Prepared & Analyzed: 19-Sep-16											
Mercury	0.16	-		ng/L							
Calibration Blank (6I20016-CCBA) Prepared & Analyzed: 19-Sep-16											
Mercury	0.09	-		ng/L							
Calibration Blank (6I20016-CCBB) Prepared & Analyzed: 19-Sep-16											
Mercury	0.18	-		ng/L							
Calibration Check (6I20016-CCV1) Prepared & Analyzed: 19-Sep-16											
Mercury	5.49	-		ng/L	5.0000		110	77-123			
Calibration Check (6I20016-CCV2) Prepared & Analyzed: 19-Sep-16											
Mercury	5.29	-		ng/L	5.0000		106	77-123			
Calibration Check (6I20016-CCV3) Prepared & Analyzed: 19-Sep-16											
Mercury	5.91	-		ng/L	5.0000		118	77-123			
Calibration Check (6I20016-CCV4) Prepared & Analyzed: 19-Sep-16											
Mercury	5.67	-		ng/L	5.0000		113	77-123			
Calibration Check (6I20016-CCV5) Prepared & Analyzed: 19-Sep-16											
Mercury	5.59	-		ng/L	5.0000		112	77-123			
Calibration Check (6I20016-CCV6) Prepared & Analyzed: 19-Sep-16											
Mercury	5.52	-		ng/L	5.0000		110	77-123			

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

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 6I20016 - F609416

Calibration Check (6I20016-CCV7) Prepared & Analyzed: 19-Sep-16

Mercury	5.79	-		ng/L	5.0000		116	77-123			
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Calibration Check (6I20016-CCV8) Prepared & Analyzed: 19-Sep-16

Mercury	5.28	-		ng/L	5.0000		106	77-123			
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Calibration Check (6I20016-CCV9) Prepared & Analyzed: 19-Sep-16

Mercury	5.85	-		ng/L	5.0000		117	77-123			
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Calibration Check (6I20016-CCVA) Prepared & Analyzed: 19-Sep-16

Mercury	5.59	-		ng/L	5.0000		112	77-123			
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Calibration Check (6I20016-CCVB) Prepared & Analyzed: 19-Sep-16

Mercury	5.09	-		ng/L	5.0000		102	77-123			
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Instrument Blank (6I20016-IBL1) Prepared & Analyzed: 19-Sep-16

Mercury	ND	0.005	0.05	ng/L							U
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Instrument Blank (6I20016-IBL2) Prepared & Analyzed: 19-Sep-16

Mercury	ND	0.005	0.05	ng/L							U
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Instrument Blank (6I20016-IBL3) Prepared & Analyzed: 19-Sep-16

Mercury	ND	0.005	0.05	ng/L							U
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Initial Cal Check (6I20016-ICV1) Prepared & Analyzed: 19-Sep-16

Mercury	5.70	-		ng/L	5.0000		114	77-123			
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Batch F608311 - EPA 1631E BrCl Oxidation

Blank (F608311-BLK1) Prepared & Analyzed: 16-Aug-16

Mercury	ND	0.08	0.50	ng/L							U
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Amy Goodall, Project Manager

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F608311 - EPA 1631E BrCl Oxidation											
Blank (F608311-BLK2) Prepared & Analyzed: 16-Aug-16											
Mercury	ND	0.08	0.50	ng/L							U
Blank (F608311-BLK3) Prepared & Analyzed: 16-Aug-16											
Mercury	ND	0.08	0.50	ng/L							U
Blank (F608311-BLK4) Prepared & Analyzed: 16-Aug-16											
Mercury	ND	1.65	9.90	ng/L							QB-08, U
LCS (F608311-BS1) Prepared & Analyzed: 16-Aug-16											
Mercury	15.57	0.08	0.50	ng/L	15.679		99.3	80-120			
LCS Dup (F608311-BSD1) Prepared & Analyzed: 16-Aug-16											
Mercury	15.65	0.08	0.50	ng/L	15.679		99.8	80-120	0.468	24	
Duplicate (F608311-DUP1) Source: 1608394-01 Prepared & Analyzed: 16-Aug-16											
Mercury	5.01	0.08	0.50	ng/L		5.11			1.97	24	
Matrix Spike (F608311-MS1) Source: 1608071-12 Prepared & Analyzed: 16-Aug-16											
Mercury	13.34	0.08	0.50	ng/L	10.120	2.20	110	71-125			
Matrix Spike (F608311-MS2) Source: 1608394-01 Prepared & Analyzed: 16-Aug-16											
Mercury	24.58	0.08	0.50	ng/L	20.240	5.11	96.2	71-125			
Matrix Spike Dup (F608311-MSD1) Source: 1608071-12 Prepared & Analyzed: 16-Aug-16											
Mercury	13.96	0.08	0.50	ng/L	10.120	2.20	116	71-125	4.54	24	
Matrix Spike Dup (F608311-MSD2) Source: 1608394-01 Prepared & Analyzed: 16-Aug-16											
Mercury	24.60	0.08	0.50	ng/L	20.240	5.11	96.3	71-125	0.0824	24	

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch F609212 - EFGS-045 MeCl2 Extraction for Methyl Hg											
Blank (F609212-BLK4) Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	0.021	0.015	0.050	ng/g wet							J
Blank (F609212-BLK5) Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	0.023	0.015	0.050	ng/g wet							J
Blank (F609212-BLK6) Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	0.017	0.015	0.050	ng/g wet							J
LCS (F609212-BS2) Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	4.805	0.074	0.252	ng/g wet	5.0050		96.0	70-130			
LCS Dup (F609212-BSD2) Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	5.081	0.074	0.252	ng/g wet	5.0050		102	70-130	5.60	35	
Duplicate (F609212-DUP2) Source: 1607903-43RE1 Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	33.02	0.286	0.974	ng/g dry		31.69			4.13	35	
Matrix Spike (F609212-MS4) Source: 1608071-06RE1 Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	9.088	0.092	0.312	ng/g dry	6.2105	1.496	122	65-130			
Matrix Spike (F609212-MS5) Source: 1607903-43RE1 Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	73.21	1.08	3.68	ng/g dry	18.288	31.69	227	65-130			QM-02
Matrix Spike Dup (F609212-MSD4) Source: 1608071-06RE1 Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	9.106	0.087	0.297	ng/g dry	5.9005	1.496	129	65-130	5.36	35	
Matrix Spike Dup (F609212-MSD5) Source: 1607903-43RE1 Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	54.88	1.04	3.54	ng/g dry	17.590	31.69	132	65-130	53.1	35	QM-02

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511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

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 F609214 - EFGS-066 Cold Aqua Regia Digestion for Hg

Blank (F609214-BLK1)					Prepared: 01-Sep-16 Analyzed: 06-Sep-16						
Mercury	0.14	0.11	1.00	ng/g wet							J
Blank (F609214-BLK2)					Prepared: 01-Sep-16 Analyzed: 06-Sep-16						
Mercury	ND	0.11	1.00	ng/g wet							U
Blank (F609214-BLK3)					Prepared: 01-Sep-16 Analyzed: 06-Sep-16						
Mercury	0.25	0.11	1.00	ng/g wet							J
LCS (F609214-BS1)					Prepared: 01-Sep-16 Analyzed: 06-Sep-16						
Mercury	8.03	0.11	1.00	ng/g wet	8.0160		100	75-125			
LCS Dup (F609214-BSD1)					Prepared: 01-Sep-16 Analyzed: 06-Sep-16						
Mercury	8.36	0.11	1.00	ng/g wet	8.0160		104	75-125	3.97	24	
Duplicate (F609214-DUP1)					Source: 1607903-43 Prepared: 01-Sep-16 Analyzed: 06-Sep-16						
Mercury	783.7	9.89	90.0	ng/g dry		842.6			7.24	24	
Matrix Spike (F609214-MS1)					Source: 1607903-43 Prepared: 01-Sep-16 Analyzed: 06-Sep-16						
Mercury	2408	10.5	95.8	ng/g dry	1536.6	842.6	102	71-125			
Matrix Spike (F609214-MS2)					Source: 1608071-01RE2 Prepared: 01-Sep-16 Analyzed: 06-Sep-16						
Mercury	1488	8.01	72.9	ng/g dry	1169.2	297.0	102	71-125			
Matrix Spike Dup (F609214-MSD1)					Source: 1607903-43 Prepared: 01-Sep-16 Analyzed: 06-Sep-16						
Mercury	2041	9.41	85.6	ng/g dry	1372.8	842.6	87.3	71-125	15.4	24	
Matrix Spike Dup (F609214-MSD2)					Source: 1608071-01RE2 Prepared: 01-Sep-16 Analyzed: 06-Sep-16						
Mercury	1445	7.69	70.0	ng/g dry	1122.5	297.0	102	71-125	0.375	24	

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Amy Goodall, Project Manager

AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

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 F609416 - EFGS-066 Cold Aqua Regia Digestion for Hg

Blank (F609416-BLK1)											
Prepared: 16-Sep-16 Analyzed: 19-Sep-16											
Mercury	0.15	0.11	1.00	ng/g wet							J
Blank (F609416-BLK2)											
Prepared: 16-Sep-16 Analyzed: 19-Sep-16											
Mercury	0.22	0.11	1.00	ng/g wet							J
Blank (F609416-BLK3)											
Prepared: 16-Sep-16 Analyzed: 19-Sep-16											
Mercury	0.13	0.11	1.00	ng/g wet							J
LCS (F609416-BS1)											
Prepared: 16-Sep-16 Analyzed: 19-Sep-16											
Mercury	8.41	0.11	1.00	ng/g wet	8.0160		105	75-125			
LCS Dup (F609416-BSD1)											
Prepared: 16-Sep-16 Analyzed: 19-Sep-16											
Mercury	8.35	0.11	1.00	ng/g wet	8.0160		104	75-125	0.722	24	
Duplicate (F609416-DUP1)											
Source: 1608071-06RE1 Prepared: 16-Sep-16 Analyzed: 19-Sep-16											
Mercury	47.11	0.69	6.27	ng/g dry		43.01			9.10	24	
Matrix Spike (F609416-MS1)											
Source: 1608071-06RE1 Prepared: 16-Sep-16 Analyzed: 19-Sep-16											
Mercury	567.6	3.37	30.7	ng/g dry	490.82	43.01	107	71-125			
Matrix Spike (F609416-MS2)											
Source: 1608072-01 Prepared: 16-Sep-16 Analyzed: 19-Sep-16											
Mercury	577.8	3.36	30.6	ng/g dry	489.40	117.0	94.2	71-125			
Matrix Spike Dup (F609416-MSD1)											
Source: 1608071-06RE1 Prepared: 16-Sep-16 Analyzed: 19-Sep-16											
Mercury	542.8	3.24	29.5	ng/g dry	472.41	43.01	106	71-125	1.03	24	
Matrix Spike Dup (F609416-MSD2)											
Source: 1608072-01 Prepared: 16-Sep-16 Analyzed: 19-Sep-16											
Mercury	598.9	3.30	30.0	ng/g dry	480.70	117.0	100	71-125	6.26	24	

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

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 F609218 - EFGS-019 Solids Analysis

Duplicate (F609218-DUP1)		Source: 1607903-43			Prepared: 01-Sep-16 Analyzed: 02-Sep-16					
% Solids	23.0	0.1	0.1	% by Weight		24.7		7.13	10	O-04, O-09
Duplicate (F609218-DUP2)		Source: 1608071-06			Prepared: 01-Sep-16 Analyzed: 02-Sep-16					
% Solids	76.8	0.1	0.1	% by Weight		75.6		1.57	10	O-04, O-09

Batch F609419 - EFGS-019 Solids Analysis

Duplicate (F609419-DUP1)		Source: 1608072-01			Prepared: 16-Sep-16 Analyzed: 20-Sep-16					
% Solids	73.2	0.1	0.1	% by Weight		73.9		0.952	10	
Duplicate (F609419-DUP2)		Source: 1608361-15			Prepared: 16-Sep-16 Analyzed: 20-Sep-16					
% Solids	54.7	0.1	0.1	% by Weight		55.2		0.910	10	

Eurofins Frontier Global Sciences, Inc.

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
13-Oct-16 14:50

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.
- QM-02 The MS and/or MSD recoveries outside acceptance limits, due to spike concentration less than 1 times the sample concentration. The batch was accepted based on LCS and LCSD recoveries within control limits and, when analysis permits, acceptable AS/ASD.
- 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.
- O-09 Total Solids are prepared at the same time as the preparation for the analyte(s) of interest in order to provide the most accurate dry mass correction.
- O-04 This sample was analyzed outside of the recommended holding time.
- J The result is an estimated concentration.
- E-01 Sample was preceded by a sample exceeding the calibration curve and was reanalyzed for confirmation.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Frontier Global Sciences

Total Solids Dataset Cover Page

Dataset ID: TS160901-1
Batch ID: F609218
Work Order(s): 1607903, 1608071

Analyst: duyenh
Prep. Date: 9/1/2016

Analytical Issues/Explanations:

QUALITY ASSURANCE
PEER - REVIEWED
INITIALS: DMW 9.2.16

Preparation Date: Sep 1, 2016

Batch #: 1

Analyst: duyenh

Batch ID: F609218

Work Order(s): 1607903, 1608071

Pan ID	Sample ID	Pan Wt (g)	Pan + Sample Wet (g)	Wet Sample (g)	Pan + Sample Dry (g)	Dry Sample (g)	% TS	Notes
1	1607903-20	1.0370	6.3250	5.2880	3.6370	2.6000	49.2%	
2	1607903-30	1.0480	6.6580	5.6100	5.0840	4.0360	71.9%	
3	1607903-31	0.9910	6.2580	5.2670	4.3470	3.3560	63.7%	
4	1607903-32	1.0100	6.1230	5.1130	1.9310	0.9210	18.0%	
5	1607903-33	1.0290	6.4900	5.4610	4.4460	3.4170	62.6%	
6	1607903-34	0.9980	6.1690	5.1710	3.6390	2.6410	51.1%	
7	1607903-35	0.9770	6.5220	5.5450	4.7440	3.7670	67.9%	
8	1607903-36	1.0130	6.1470	5.1340	2.0890	1.0760	21.0%	
9	1607903-37	1.0170	6.4430	5.4260	1.7330	0.7160	13.2%	
10	1607903-38	1.0320	6.5150	5.4830	3.2290	2.1970	40.1%	
11	1607903-39	1.0170	6.8120	5.7950	3.9170	2.9000	50.0%	
12	1607903-43	1.0250	6.1980	5.1730	2.3040	1.2790	24.7%	
13	1607903-43MD	1.0010	6.2240	5.2230	2.2040	1.2030	23.0%	7.1%
14	1607903-44	1.0080	6.2630	5.2550	2.0960	1.0880	20.7%	
15	1608071-01	1.0160	6.4540	5.4380	2.7780	1.7620	32.4%	
16	1608071-02	0.9830	6.2420	5.2590	2.6300	1.6470	31.3%	
17	1608071-03	1.0150	6.4220	5.4070	2.9010	1.8860	34.9%	
18	1608071-04	1.0020	6.2490	5.2470	3.3560	2.3540	44.9%	
19	1608071-05	0.9960	6.2900	5.2940	3.0160	2.0200	38.2%	
20	1608071-06	1.0620	6.5130	5.4510	5.1830	4.1210	75.6%	
21	1608071-06MD	1.0600	6.5390	5.4790	5.2700	4.2100	76.8%	1.6%
22	1608071-07	0.9960	6.8070	5.8110	5.3280	4.3320	74.5%	

PREPARATION BENCH SHEET

F609218

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 9/1/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (g)	Spike1 ID	μ l Spike1	Spike2 ID	μ l Spike2	Extraction Comments
F609218-DUP1	Duplicate [1607903-43]	5	5					
F609218-DUP2	Duplicate [1608071-06]	5	5					

Standard ID(s): Description:

Expiration:

PREPARATION BENCH SHEET

F609218

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 9/1/2016

Lab Number	Sample ID	Initial (g)	Final (g)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607903-20	W-61-High_072716_SED_03	5	5	-	-	-		
1607903-30	W-65-Intertidal_072516_SED_03	5	5	-	-	-		
1607903-31	W-65-Low_072516_SED_03	5	5	-	-	-		
1607903-32	W-65-Mid_072516_SED_03	5	5	-	-	-		
1607903-33	ES-15_072716_SED_03	5	5	-	-	-		
1607903-34	SVE-01_072716_SED_03	5	5	-	-	-		
1607903-35	OL-01_072716_SED_03	5	5	-	-	-		
1607903-36	W17-N_072116_SED_03	5	5	-	-	-		
1607903-37	ADD-01_072116_SED_03	5	5	-	-	-		
1607903-38	ADD-02_072216_SED_03	5	5	-	-	-		
1607903-39	W-17-Low_072616_SED_03_DUP	5	5	-	-	-		
1607903-43	BO-04-02_072616_SED_03	5	5	QC	-	-	MS/MSD	
1607903-44	BO-04-02_072616_SED_03_DUP	5	5	-	-	-		
1608071-01	ES-04_072816_SED_03	5	5	-	-	-		
1608071-02	E-01-01_072816_SED_03	5	5	-	-	-		
1608071-03	E-01-03_072816_SED_03	5	5	-	-	-		
1608071-04	E-01-04_072816_SED_03	5	5	-	-	-		
1608071-05	ES-03_072816_SED_03	5	5	-	-	-		
1608071-06	ES-FP_072816_SED_03	5	5	QC	-	-	MS/MSD	

Page 42 of 257

Date: 9/30/2016

PREPARATION BENCH SHEET

F609218

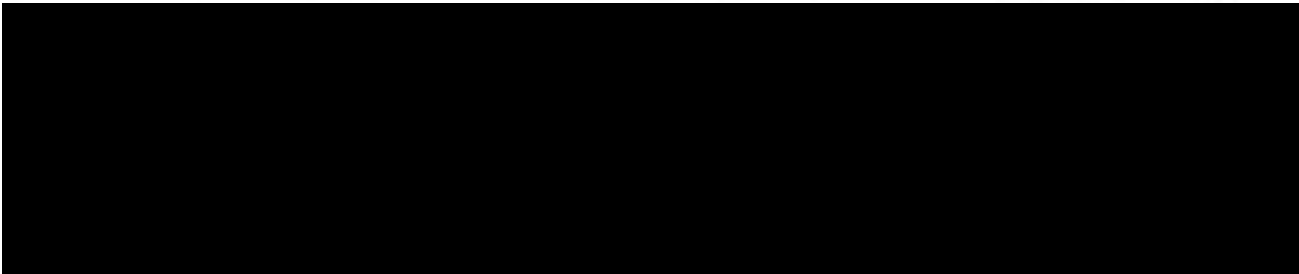
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-019 Solids Analysis

Prepared: 9/1/2016

1608071-07	ES-FP_072816_SED_03_DUP	5	5	-	-	-		
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Remote Lab Total Solids Logbook

Lab Technician(s): Dwyer Batch: F609218 Date: 9/1/16 Page 1 of 1
 Thermometer #: 1404025547 Oven #: 1 Actual temperature: 103.4 (Range 103-105°C)
 Balance #¹: 10 Start time: 15:50 End time²: 7:40 Time re-weighed³: 8:15 9/2/16
 Client(s)/WO#: 1607903, 1608071

Sample ID	Pan #	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Notes
1607903-20	1	1.037	6.325	3.637	
1607903-30	2	1.048	6.658	5.084	
1607903-31	3	0.991	6.258	4.347	
1607903-32	4	1.010	6.123	1.931	
1607903-33	5	1.029	6.490	4.446	
1607903-34	6	0.998	6.169	3.639	
1607903-35	7	0.977	6.522	4.744	
1607903-36	8	1.013	6.147	2.089	
1607903-37	9	1.017	6.443	1.733	
1607903-38	10	1.032	6.515	3.229	
1607903-39	11	1.017	6.812	3.917	
1607903-43	12	1.025	6.198	2.304	
1607903 43MD ^{9/1/16}	13	1.001	6.224	2.204	1607903-43MD
16078071-01 ^{9/1/16}	14	1.008	6.263	2.096	1607903-44
1608071-01 ^{9/1/16}	15	1.016	6.454	2.778	
1608071-02-03	16	0.983	6.242	2.630	
1608071-03-04	17	1.015	6.422	2.901	
1608071-04-05	18	1.002	6.249	3.356	
1608071-05 ^{9/1/16}	19	0.996	6.290	3.016	
1608071-06	20	1.062	6.513	5.183	
1608071-06MD	21	1.060	6.539	5.270	
1608071-07	22	0.996	6.807	5.328	
					9/2/16 ^{DM}

Comments:

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

Reviewed
9/2/16 DM

Peer Review Checklist for Total Solids and Density (SOP EFGS-019)

Analyst: Dmpw Date: 9/2/16 Reviewer: _____ Date: _____

WO #: 1607903-1608071 Batch #: F609218 Dataset ID: 75160901-1

Reviewer Initials: _____

General Comments/Re-run requirements:

Select	SOP	Method	Matrix
<input checked="" type="checkbox"/>	EFGS-019	TS	S/T
<input type="checkbox"/>	EFGS-019	Density	Liquids

Initials	SOP Date	
<u>DLT</u>	<u>5-19-2016</u>	<input type="checkbox"/>
		<input type="checkbox"/>

Reviewer Initials: _____

1. Total Solids

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

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

2. Density

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

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



Frontier Global Sciences

Total Solids Dataset Cover Page

Dataset ID: TS160916-1
Batch ID: F609419
Work Order(s): 1608071, 1608072, 1608361

Analyst: DH
Prep. Date: 9/16/2016

Analytical Issues/Explanations:

QUALITY ASSURANCE

PEER - REVIEWED

INITIALS: DMW 9-21-16

Preparation Date: Sep 16, 2016

Batch #: 1

Analyst: DH

Batch ID: F609419

Work Order(s): 1608071, 1608072, 1608361

Pan ID	Sample ID	Pan Wt (g)	Pan + Sample Wet (g)	Wet Sample (g)	Pan + Sample Dry (g)	Dry Sample (g)	% TS	Notes
1	1608071-10	1.0380	6.2970	5.2590	3.4920	2.4540	46.7%	
2	1608071-11	1.0240	6.2940	5.2700	5.0390	4.0150	76.2%	
3	1608072-01	1.0040	6.5350	5.5310	5.0890	4.0850	73.9%	
4	1608072-01MD	1.0140	6.2160	5.2020	4.8210	3.8070	73.2%	0.9%
5	1608072-02	0.9920	6.3920	5.4000	4.8380	3.8460	71.2%	
6	1608361-05	1.0010	6.5590	5.5580	2.3670	1.3660	24.6%	
7	1608361-06	1.0270	6.6580	5.6310	4.6220	3.5950	63.8%	
8	1608361-07	1.0230	6.5360	5.5130	5.3300	4.3070	78.1%	
9	1608361-08	1.0300	6.6190	5.5890	2.4010	1.3710	24.5%	
10	1608361-09	1.0180	6.3130	5.2950	2.5970	1.5790	29.8%	
11	1608361-10	1.0060	6.3730	5.3670	2.5270	1.5210	28.3%	
12	1608361-11	0.9980	6.2460	5.2480	2.8790	1.8810	35.8%	
13	1608361-12	0.9890	6.7610	5.7720	3.1180	2.1290	36.9%	
14	1608361-13	1.0240	6.6540	5.6300	2.9950	1.9710	35.0%	
15	1608361-14	0.9840	6.6470	5.6630	3.5540	2.5700	45.4%	
16	1608361-15	1.0200	6.7340	5.7140	4.1730	3.1530	55.2%	
17	1608361-15MD	1.0250	6.4490	5.4240	3.9910	2.9660	54.7%	0.9%
18	1608361-16	1.0170	6.5940	5.5770	2.5440	1.5270	27.4%	
19	1608361-17	1.0120	6.4490	5.4370	2.3010	1.2890	23.7%	
20	1608361-18	1.0110	6.6420	5.6310	2.0970	1.0860	19.3%	
21	1608361-19	0.9930	6.5280	5.5350	2.2150	1.2220	22.1%	
22	1608361-20	1.0160	6.5580	5.5420	3.2640	2.2480	40.6%	

Remote Lab Total Solids Logbook

Lab Technician(s): Duyen Batch: F609419 Date: 9/16/16 Page 1 of 1
 Thermometer #1: 204051425 Oven #: 12 Actual temperature: 104.6 (Range 103-105°C)
 Balance #1: 6210 Start time: 14:30 End time²: 7:35 Time re-weighed³: 8:05 9/19/16
 Client(s)/WO#: 1608071, 1608072, 1608361 19 9/16/16

Sample ID	Pan #	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Notes
1608071-10	1	1.038	6.297	3.492	
1608071-11	2	1.024	6.294	5.039	
1608072-01	3	1.004	6.535	5.089	
1608072-01MD	4	1.014	6.216	4.821	
1608072-02	5	0.992	6.392	4.838	
1608361-05	6	1.001	6.559	2.367	
1608361-06	7	1.027	6.658	4.622	
1608361-07	8	1.023	6.536	5.330	
1608361-08	9	1.030	6.619	2.401	
1608361-09	10	1.018	6.313	2.597	
1608361-10	11	1.006	6.373	2.527	
1608361-11	12	0.998	6.246	2.879	
1608361-12	13	0.989	6.761	2.118 ³ 2.118	3.118g pan tovg
1608361-13	14	1.024	6.654	2.995	
1608361-14	15	0.984	6.647	3.554	
1608361-15	16	1.020	6.734	4.173	
1608361-15MD ^{all 16/16}	17	1.025	6.449	3.991	1608361-15MD
1608361-16-17	18	1.017	6.594	2.544	
1608361-17-18MD	19	1.012	6.449	2.301	
1608361-18-18	20	1.011	6.642	2.097	
1608361-19-19	21	0.993	6.528	2.215	
1608361-20-20	22	1.016	6.558	3.264	
<u>9/16/16</u> ^{all 16/16}				<u>9/16/16</u>	

Comments:

¹The same balance must be used to weight samples before and after ovening.

²Samples must be ovened over 12 hours.

³Samples must be re-weighed within 30 minutes of oven cool down.

Reviewed
9/19/16

PREPARATION BENCH SHEET

F609419

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-019 Solids Analysis

Prepared: 9/16/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (g)	Spike1 ID	μ l Spike1	Spike2 ID	μ l Spike2	Extraction Comments
F609419-DUP1	Duplicate [1608072-01]	5	5					
F609419-DUP2	Duplicate [1608361-15]	5	5					

Standard ID(s):

Description:

Expiration:

PREPARATION BENCH SHEET

F609419

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-019 Solids Analysis

Prepared: 9/16/2016

Lab Number	Sample ID	Initial (g)	Final (g)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608071-10	MMPOLY_072916_SED_03	5	5	-	-	-		
1608071-11	L9-45_072816_SED_03	5	5	-	-	-		
1608072-01	BO-04_072516_SED_03	5	5	QC	-	-	MS/MSD	
1608072-02	BO-04_072516_SED_03_DUP	5	5	-	-	-		
1608361-05	OCE-11	5	5	-	-	-		
1608361-06	OCE-14	5	5	-	-	-		
1608361-07	OCE-15	5	5	-	-	-		
1608361-08	OCE-11-1	5	5	-	-	-		
1608361-09	OCE-11-2	5	5	-	-	-		
1608361-10	OCE-11-3	5	5	-	-	-		
1608361-11	OCE-11-4	5	5	-	-	-		
1608361-12	OCE-11-5	5	5	-	-	-		
1608361-13	OCE-11-6	5	5	-	-	-		
1608361-14	OCE-11-7	5	5	-	-	-		
1608361-15	OCE-11-8	5	5	-	-	-		
1608361-16	OCE-13	5	5	-	-	-		
1608361-17	OCE-13-1	5	5	-	-	-		
1608361-18	OCE-13-2	5	5	-	-	-		
1608361-19	OCE-13-3	5	5	-	-	-		

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Issue Date: 9/8/2016

PREPARATION BENCH SHEET

F609419

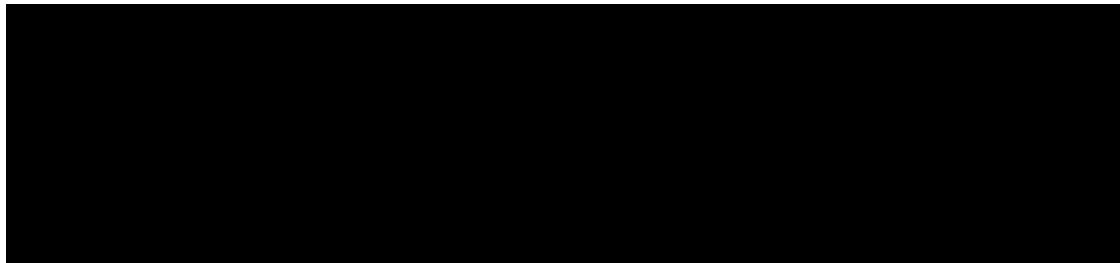
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-019 Solids Analysis

Prepared: 9/16/2016

1608361-20	OCE-13-4	5	5	-	-	-		
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Peer Review Checklist for Total Solids and Density (SOP EFGS-019)

Analyst: DH Date: 9/20/16 Reviewer: DMW Date: 9-21-16

WO #: 1608071, 1608072, 1608361 Batch #: F609419 Dataset ID: TS160916-1

Reviewer Initials: DMW

General Comments/Re-run requirements:

[Empty box for general comments]

Select	SOP	Method	Matrix
<input type="checkbox"/>	EFGS-019	TS	S/T
<input checked="" type="checkbox"/>	EFGS-019	Density	Liquids

Initials	SOP Date	
<u>DH</u>	<u>5-19-2016</u>	<input type="checkbox"/>
<u>AMB</u>	<u>6/02/16</u>	<input type="checkbox"/>

Reviewer Initials: DMW

1. Total Solids

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

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

2. Density

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

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

Analysis Datasheet for Total Mercury

Date of Analysis: August 16, 2016

Analyst: DM2

Instrument #: Hg2600-3

Units ng/L

LIMS Sequence #: 6H17009, 6H17008, 6H17007, 6H17006

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.50 ng/L	58.94 units	117.88	48.85 units	97.70	96.1 %Rec
SEQ-CAL2	1	1.00 ng/L	108.46 units	108.46	98.37 units	98.37	96.7 %Rec
SEQ-CAL3	1	5.00 ng/L	525.46 units	105.09	515.37 units	103.07	101.4 %Rec
SEQ-CAL4	1	20.00 ng/L	2123.69 units	106.18	2113.60 units	105.68	103.9 %Rec
SEQ-CAL5	1	40.00 ng/L	4151.83 units	103.80	4141.74 units	103.54	101.8 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						
Corr. Mean RF							
101.67							
Corr. St Dev RF							
+/- 3.47							
Corr. RSD CF							
3.4% RSD							
Uncorr. Mean RF							
108.28							

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	3	10.09 units	±8.51	0.09 ng/L	±0.08

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	2.287 ng/L	±0.573
BLK	2	3	-0.099 ng/L	±0.000
BLK	3	1	0.256 ng/L	
BLK	4	3	2.977 ng/L	±1.632
BLK	5	3	-1.514 ng/L	±2.213
BLK	6	0	0.000 ng/L	

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-3	DM2	SAM	1608404-02C ✓	2500	8/16/2016 15:30:04	48103-1.RAW	3:30:04 PM	3479.99	4		3469.9	34.126	85315.921	ng/L	
Hg2600-3	DM2	SAM	1608404-03C ✓	5000	8/16/2016 15:34:12	48104-1.RAW	3:34:12 PM	2321.92	4		2311.8	22.737	113685.036	ng/L	
Hg2600-3	DM2	SAM	1608404-04C ✓	5000	8/16/2016 15:38:21	48105-1.RAW	3:38:21 PM	2189.16	4		2179.1	21.431	107156.271	ng/L	
Hg2600-3	DM2	SAM	F608300-DUPI	2500	8/16/2016 15:42:29	48106-1.RAW	3:42:29 PM	785.40	4		775.3	7.624	19060.616	ng/L	
Hg2600-3	DM2	SAM	F608300-MS1	2500	8/16/2016 15:46:38	48107-1.RAW	3:46:38 PM	3125.83	4		3115.7	30.643	76607.684	ng/L	
Hg2600-3	DM2	SAM	F608300-MSD1	2500	8/16/2016 15:50:46	48108-1.RAW	3:50:46 PM	3166.26	4		3156.2	31.041	77601.835	ng/L	
Hg2600-3	DM2	SAM	1608391-03RE1 ✓	100	8/16/2016 15:54:55	48109-1.RAW	3:54:55 PM	1662.12	4		1652.0	16.219	1621.850	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCVA	1	8/16/2016 15:59:03	48110-1.RAW	3:59:03 PM	625.90			615.8	6.057	6.057	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCBA	1	8/16/2016 16:03:11	48111-1.RAW	4:03:11 PM	9.37			-0.7	-0.007	-0.007	ng/L	
Hg2600-3	DM2	SAM	1608391-04RE1 ✓	100	8/16/2016 16:07:20	48112-1.RAW	4:07:20 PM	1273.17	4		1263.1	12.393	1239.301	ng/L	
Hg2600-3	DM2	BLK	F608294-BLK1	50	8/16/2016 16:11:28	48113-1.RAW	4:11:28 PM	6.53	5		-3.6	-0.035	-1.749	ng/L	
Hg2600-3	DM2	BLK	F608294-BLK2	50	8/16/2016 16:15:37	48114-1.RAW	4:15:37 PM	2.77	5		-7.3	-0.072	-3.601	ng/L	
Hg2600-3	DM2	BLK	F608294-BLK3	50	8/16/2016 16:19:45	48115-1.RAW	4:19:45 PM	11.73	5		1.6	0.016	0.807	ng/L	
Hg2600-3	DM2	SAM	F608294-BS1	500	8/16/2016 16:23:54	48116-1.RAW	4:23:54 PM	1165.90	5		1155.8	11.371	5685.418	ng/L	
Hg2600-3	DM2	SAM	F608294-BSD1	500	8/16/2016 16:28:02	48117-1.RAW	4:28:02 PM	1114.75	5		1104.7	10.868	5433.882	ng/L	
Hg2600-3	DM2	SAM	1608253-18	500	8/16/2016 16:32:11	48118-1.RAW	4:32:11 PM	8.07	5		-2.0	-0.017	-8.413	ng/L	
Hg2600-3	DM2	SAM	1608253-19	500	8/16/2016 16:36:19	48119-1.RAW	4:36:19 PM	3.78	5		-6.3	-0.059	-29.520	ng/L	
Hg2600-3	DM2	SAM	F608294-DUPI	50	8/16/2016 16:40:27	48120-1.RAW	4:40:27 PM	8.44	5		-1.7	0.014	0.703	ng/L	
Hg2600-3	DM2	SAM	F608294-MS1	500	8/16/2016 16:44:36	48121-1.RAW	4:44:36 PM	1166.12	5		1156.0	11.373	5686.466	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCVB	1	8/16/2016 16:48:44	48122-1.RAW	4:48:44 PM	611.63			601.5	5.916	5.916	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCBB	1	8/16/2016 16:52:53	48123-1.RAW	4:52:53 PM	9.85			-0.2	-0.002	-0.002	ng/L	
Hg2600-3	DM2	SAM	F608294-MSD1	500	8/16/2016 16:57:01	48124-1.RAW	4:57:01 PM	1213.28	5		1203.2	11.837	5918.376	ng/L	
Hg2600-3	DM2	SAM	1608253-18RE1 ✓	50	8/16/2016 17:01:10	48125-1.RAW	5:01:10 PM	8.73	5		-1.4	0.017	0.844	ng/L	
Hg2600-3	DM2	SAM	1608253-19RE1 ✓	50	8/16/2016 17:05:18	48126-1.RAW	5:05:18 PM	7.95	5		-2.1	0.009	0.462	ng/L	
Hg2600-3	DM2	SAM	BRCL-1 1604595	1	8/16/2016 17:09:27	48127-1.RAW	5:09:27 PM	4.41		x	-5.7	-0.056	-0.056	ng/L	
Hg2600-3	DM2	SAM	BRCL-2 1604595	1	8/16/2016 17:13:35	48128-1.RAW	5:13:35 PM	0.00		x	-10.1	-0.099	-0.099	ng/L	
Hg2600-3	DM2	SAM	BRCL-3 1604595	1	8/16/2016 17:17:43	48129-1.RAW	5:17:43 PM	1.87		x	-8.2	-0.081	-0.081	ng/L	
Hg2600-3	DM2	SAM	BRCL-4 1604595	1	8/16/2016 17:21:52	48130-1.RAW	5:21:52 PM	3.62		x	-6.5	-0.064	-0.064	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCVC	1	8/16/2016 17:26:00	48131-1.RAW	5:26:00 PM	602.01			591.9	5.822	5.822	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCBC	1	8/16/2016 17:30:09	48132-1.RAW	5:30:09 PM	7.21			-2.9	-0.028	-0.028	ng/L	
Hg2600-3	DM2	SAM	SNCL 1604596	1	8/16/2016 17:34:17	48133-1.RAW	5:34:17 PM	0.00		x	-10.1	-0.099	-0.099	ng/L	
Hg2600-3	DM2	SAM	CLEAN		8/16/2016 17:37:09	48134-1.RAW	5:37:09 PM	0.00		x	-10.1	-0.099	0.000	ng/L	
Hg2600-3	DM2	SAM	CLEAN		8/16/2016 17:40:00	48135-1.RAW	5:40:00 PM	0.00		x	-10.1	-0.099	0.000	ng/L	
Hg2600-3	DM2	SAM	WS		8/16/2016 17:44:08	48136-1.RAW	5:44:08 PM	3.77		x	-6.3	-0.062	0.000	ng/L	
Hg2600-3	DM2	SAM	WS		8/16/2016 17:48:17	48137-1.RAW	5:48:17 PM	3.45		x	-6.6	-0.065	0.000	ng/L	
Hg2600-3	DM2	SAM	WS		8/16/2016 17:52:25	48138-1.RAW	5:52:25 PM	3.97		x	-6.1	-0.060	0.000	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCVD ✓	1	8/16/2016 17:56:34	48139-1.RAW	5:56:34 PM	598.09			588.0	5.783	5.783	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCBD ✓	1	8/16/2016 18:00:42	48140-1.RAW	6:00:42 PM	9.46			-0.6	-0.006	-0.006	ng/L	

TotalMercury
EPA1631

Operati DM BlankS 10.089 Calib Eqn: Conc = (Area-10.08 Run Date: 8/16/2016 Blank SD: 8.508545972
 Workst THg260(CalibFa 101.67 Status: QC Warnings:5/QC E Run Time: 11:54:44 Blank RSD%: 84.33420221
 Method ##### R: 0.9999 R²: 0.9999 CF SD: 3.470891982
 Descrip THg26003-160816-1 CF RSD%: 3.413732921

Sample/ID	Location	Rinse	Dilute	Blank	Conc (ppt)	MB%	FinalConc	Rec%	QA	RawData	RunEnd	Peak (Raw)	Control (etf)	Flags	RunCount
Clean				0.00	3.11					47976-1.RAW	6:42:22	315.75	Clean	OK	1
clean										47977-1.RAW	6:45:14	0.00	Clean	NP	1
ws				10.09	0.00					47978-1.RAW	6:49:22	7.39	Sample	OK	1
ws				10.09	0.00					47979-1.RAW	6:53:30	6.73	Sample	OK	1
ws				10.09	0.00					47980-1.RAW	6:57:39	7.90	Sample	OK	1
SEQ-IBL1	A1		1	0.00	0.04					47981-1.RAW	7:01:47	4.03	Sample	OK	1
SEQ-IBL2	A2		1	0.00	0.19					47982-1.RAW	7:05:56	19.82	Sample	OK	1
SEQ-IBL3	A3		1	0.00	0.06					47983-1.RAW	7:10:04	6.42	Sample	OK	1
SEQ-CAL1	A4		1	10.09	0.48			96.09		47984-1.RAW	7:14:12	58.94	Sample	OK	1
SEQ-CAL2	A5		1	10.09	0.97			96.75		47985-1.RAW	7:18:21	108.46	Sample	OK	1
SEQ-CAL3	A6		1	10.09	5.07			101.38		47986-1.RAW	7:22:29	525.46	Sample	OK	1
SEQ-CAL4	A7		1	10.09	20.79			103.94		47987-1.RAW	7:26:38	2123.69	Sample	OK	1
SEQ-CAL5	A8		1	10.09	40.74			101.84		47988-1.RAW	7:30:46	4151.83	Sample	OK	1
SEQ-ICV1	A9		1	10.09	0.00			0.00		47989-1.RAW	7:34:55	10.06	Sample	OK	1
SEQ-ICV2	D1		1	10.09	5.18			103.53		47990-1.RAW	7:40:35	536.41	Sample	OK	1
SEQ-ICV3	D2		1	10.09	5.30			106.03		47991-1.RAW	7:44:43	549.10	Sample	OK	1
F607208-BLK1	A10		20	10.09	1.85					47992-1.RAW	7:48:52	19.52	Sample	OK	1
F607208-BLK2	A11		20	10.09	2.94					47993-1.RAW	7:53:00	25.02	Sample	OK	1
F607208-BLK3	A12		20	10.09	2.07					47994-1.RAW	7:57:09	20.60	Sample	OK	1
F607208-BS1	B1		20	10.09	104.70					47995-1.RAW	8:01:17	542.35	Sample	OK	1
F607208-BSD1	B2		20	10.09	104.36					47996-1.RAW	8:05:26	540.61	Sample	OK	1
1607326-65	B3		100	10.09	485.60					47997-1.RAW	8:09:34	503.82	Sample	OK	1
1607326-66	B4		100	10.09	799.17					47998-1.RAW	8:13:42	822.65	Sample	OK	1
1607326-67	B5		100	10.09	514.16					47999-1.RAW	8:17:51	532.85	Sample	OK	1
1607326-68	B6		100	10.09	409.28					48000-1.RAW	8:21:59	426.22	Sample	OK	1
1607326-69	B7		100	10.09	295.80					48001-1.RAW	8:26:08	310.85	Sample	OK	1
SEQ-CCV1	B8		1	10.09	5.13			102.60		48002-1.RAW	8:30:16	531.67	Sample	OK	1
SEQ-CCB1	B9		1	10.09	0.00			0.00		48003-1.RAW	8:34:24	1.40	Sample	OK	1
1607326-70	B10		100	10.09	385.99					48004-1.RAW	8:38:33	402.54	Sample	OK	1
1607326-71	B11		100	10.09	471.59					48005-1.RAW	8:42:41	489.58	Sample	OK	1
1607326-72	B12		100	10.09	246.64					48006-1.RAW	8:46:50	260.86	Sample	OK	1
1607327-01	C1		100	10.09	266.18					48007-1.RAW	8:50:58	280.72	Sample	OK	1
1607327-02	C2		100	10.09	1119.35					48008-1.RAW	8:55:07	1148.18	Sample	OK	1
1607327-03	C3		100	10.09	1340.71					48009-1.RAW	8:59:15	1373.25	Sample	OK	1
1607327-04	C4		100	10.09	3810.69					48010-1.RAW	9:03:23	3884.58	Sample	OK	1
1607327-05	C5		100	10.09	2644.57					48011-1.RAW	9:07:32	2698.94	Sample	OK	1
1607327-06	C6		100	10.09	213.25					48012-1.RAW	9:11:40	226.91	Sample	OK	1
1607327-07	C7		100	10.09	224.03					48013-1.RAW	9:15:49	237.87	Sample	OK	1
SEQ-CCV2	C8		1	10.09	5.34			106.72		48014-1.RAW	9:19:57	552.64	Sample	OK	1
SEQ-CCB2	C9		1							48015-1.RAW	9:24:05	0.00	Sample	NP	1
1607327-08	C10		100	10.09	421.72					48016-1.RAW	9:28:14	438.87	Sample	OK	1
1607327-09	C11		100	10.09	211.62					48017-1.RAW	9:32:22	225.26	Sample	OK	1
1607327-10	C12		100	10.09	1363.62					48018-1.RAW	9:36:31	1396.54	Sample	OK	1
1607327-11	D1		100	10.09	392.65					48019-1.RAW	9:40:39	409.31	Sample	OK	1
1607327-12	D2		100	10.09	674.29					48020-1.RAW	9:44:48	695.67	Sample	OK	1
F607208-DUP1	D3		100	10.09	400.19					48021-1.RAW	9:48:56	416.98	Sample	OK	1

F607208-MS1	D4	500	10.09	5502.04	1371.44	48022-1.RAW	9:53:04	1128.92	Sample	OK	1
F607208-MSD1	D5	500	10.09	5865.96		48023-1.RAW	9:57:13	1202.92	Sample	OK	1
F607208-MS2	D6	500	10.09	6702.16	114.22	48024-1.RAW	10:01:21	1372.97	Sample	OK	1
F607208-MSD2	D7	500	10.09	6846.85		48025-1.RAW	10:05:30	1402.39	Sample	OK	1
SEQ-CCV3	D8	1	10.09	5.49	109.89	48026-1.RAW	10:09:38	568.73	Sample	OK	1
SEQ-CCB3	D9	1	10.09	0.00	0.00	48027-1.RAW	10:13:47	6.42	Sample	OK	1
F608311-BLK1	D10	1				48028-1.RAW	10:17:55	0.00	Sample	NP	1
F608311-BLK2	D11	1				48029-1.RAW	10:22:03	0.00	Sample	NP	1
F608311-BLK3	D12	1				48030-1.RAW	10:26:12	0.00	Sample	NP	1
F608311-BLK4	A1	10	10.09	0.26		48031-1.RAW	10:30:20	12.69	Sample	OK	1
F608311-BS1	A2	1	10.09	15.32		48032-1.RAW	10:34:29	1567.68	Sample	OK	1
F608311-BSD1	A3	1	10.09	15.39		48033-1.RAW	10:38:37	1575.03	Sample	OK	1
1608071-12	A4	1	10.09	2.08		48034-1.RAW	10:42:45	221.87	Sample	OK	1
1608071-13	A5	1	10.09	0.47		48035-1.RAW	10:46:54	58.33	Sample	OK	1
1608071-14	A6	1	10.09	0.06		48036-1.RAW	10:51:02	16.20	Sample	OK	1
1608269-01	A7	1	10.09	15.42		48037-1.RAW	10:55:11	1577.44	Sample	FB	1
SEQ-CCV4	A8	1	10.09	5.34	106.90	48038-1.RAW	10:59:19	553.52	Sample	OK	1
SEQ-CCB4	A9	1	10.09	0.00	0.00	48039-1.RAW	11:03:27	5.32	Sample	OK	1
1608269-02	A10	1	10.09	12.70		48040-1.RAW	11:07:36	1301.18	Sample	OK	1
1608269-03	A11	1	10.09	24.17		48041-1.RAW	11:11:44	2467.50	Sample	OK	1
1608269-04	A12	1	10.09	0.11		48042-1.RAW	11:15:53	20.87	Sample	OK	1
1608319-01	B1	1	10.09	1.04		48043-1.RAW	11:20:01	115.43	Sample	OK	1
1608319-02	B2	1	10.09	1.03		48044-1.RAW	11:24:10	114.79	Sample	OK	1
1608319-03	B3	1	10.09	0.00		48045-1.RAW	11:28:18	6.75	Sample	OK	1
1608356-02	B4	10	10.09	121.70		48046-1.RAW	11:32:27	1247.49	Sample	OK	1
1608356-04	B5	1	10.09	1.69		48047-1.RAW	11:36:36	181.63	Sample	OK	1
1608394-01	B6	1	10.09	4.96		48048-1.RAW	11:40:44	514.71	Sample	OK	1
1608394-02	B7	1	10.09	0.00		48049-1.RAW	11:44:53	2.61	Sample	OK	1
SEQ-CCV5	B8	1	10.09	5.42	108.50	48050-1.RAW	11:49:01	561.65	Sample	OK	1
SEQ-CCB5	B9	1	10.09	0.00	0.00	48051-1.RAW	11:53:10	3.91	Sample	OK	1
1608394-03	B10	1	10.09	5.77		48052-1.RAW	11:58:53	597.04	Sample	OK	1
1608394-04	B11	1	10.09	0.00		48053-1.RAW	12:03:02	2.17	Sample	OK	1
1608394-05	B12	10	10.09	25.73		48054-1.RAW	12:07:10	271.67	Sample	OK	1
1608394-06	C1	1	10.09	0.00		48055-1.RAW	12:11:19	5.64	Sample	OK	1
F608311-DUP1	C2	1	10.09	4.86		48056-1.RAW	12:15:27	504.66	Sample	OK	1
F608311-MS1	C3	1	10.09	13.11	223.60	48057-1.RAW	12:19:36	1343.28	Sample	OK	1
F608311-MSD1	C4	1	10.09	13.73		48058-1.RAW	12:23:44	1405.74	Sample	OK	1
F608311-MS2	C5	1	10.09	24.24	154.12	48059-1.RAW	12:27:52	2474.54	Sample	OK	1
F608311-MSD2	C6	1	10.09	24.26		48060-1.RAW	12:32:01	2476.58	Sample	FB	1
EFGS03402 900NG	C7	500	10.09	8526.51		48061-1.RAW	12:36:09	1743.94	Sample	OK	1
SEQ-CCV6	C8	1	10.09	5.40	107.97	48062-1.RAW	12:40:18	559.00	Sample	OK	1
SEQ-CCB6	C9	1	10.09	0.00	0.00	48063-1.RAW	12:44:26	4.83	Sample	OK	1
EFGS03369 900NG	C10	500	10.09	8641.35		48064-1.RAW	12:48:35	1767.30	Sample	OK	1
F608300-BLK1	C11	100	10.09	2.94		48065-1.RAW	12:52:43	13.08	Sample	OK	1
F608300-BLK2	C12	100	10.09	4.63		48066-1.RAW	12:56:51	14.79	Sample	OK	1
F608300-BLK3	D1	100	10.09	1.36		48067-1.RAW	13:01:00	11.48	Sample	OK	1
F608300-BS1	D2	500	10.09	1874.49		48068-1.RAW	13:05:08	391.26	Sample	OK	1
F608300-BSD1	D3	500	10.09	1814.66		48069-1.RAW	13:09:17	379.10	Sample	OK	1
1608391-01	D4	2500	10.09	17201.89		48070-1.RAW	13:13:25	709.69	Sample	OK	1
1608391-02	D5	2500	10.09	13269.06		48071-1.RAW	13:17:34	549.74	Sample	OK	1
1608391-03	D6	2500	10.09	1375.88		48072-1.RAW	13:21:42	66.05	Sample	OK	1

1608391-04	D7	2500	10.09	1072.71		48073-1.RAW	13:25:51	53.72	Sample	OK	1
SEQ-CCV7	D8	1	10.09	5.46	109.15	48074-1.RAW	13:29:59	565.00	Sample	OK	1
SEQ-CCB7	D9	1	10.09	0.00	0.00	48075-1.RAW	13:34:07	5.74	Sample	OK	1
1608391-05	D10	2500	10.09	8285.84		48076-1.RAW	13:38:16	347.07	Sample	OK	1
1608391-06	D11	2500	10.09	8795.64		48077-1.RAW	13:42:24	367.81	Sample	OK	1
1608404-01	D12	2500	10.09	31496.62		48078-1.RAW	13:46:33	1291.05	Sample	OK	1
1608404-02	A1	2500	10.09	31559.40		48079-1.RAW	13:50:41	1293.60	Sample	OK	1
1608404-03	A2	2500	10.09	31552.59		48080-1.RAW	13:54:50	1293.33	Sample	OK	1
1608404-04	A3	2500	10.09	31025.28		48081-1.RAW	13:58:58	1271.88	Sample	OK	1
1608391-01B	A4	100	10.09	0.00		48082-1.RAW	14:03:07	9.12	Sample	OK	1
1608391-02B	A5	100	10.09	0.00		48083-1.RAW	14:07:15	9.85	Sample	OK	1
1608391-03B	A6	100	10.09	6.24		48084-1.RAW	14:11:23	16.44	Sample	OK	1
1608391-04B	A7	100	10.09	10.23		48085-1.RAW	14:15:32	20.49	Sample	OK	1
SEQ-CCV8	A8	1	10.09	5.50	110.03	48086-1.RAW	14:19:40	569.44	Sample	OK	1
SEQ-CCB8	A9	1	10.09	0.00	0.00	48087-1.RAW	14:23:49	5.77	Sample	OK	1
1608391-05B	A10	100	10.09	0.54		48088-1.RAW	14:27:57	10.63	Sample	OK	1
1608391-06B	A11	100	10.09	0.00		48089-1.RAW	14:32:06	8.94	Sample	OK	1
1608404-01B	A12	100	10.09	6.57		48090-1.RAW	14:36:14	16.77	Sample	OK	1
1608404-02B	B1	100	10.09	11.85		48091-1.RAW	14:40:23	22.13	Sample	OK	1
1608404-03B	B2	100	10.09	5.15		48092-1.RAW	14:44:31	15.32	Sample	OK	1
1608404-04B	B3	100	10.09	2.25		48093-1.RAW	14:48:39	12.38	Sample	OK	1
1608391-01C	B4	2500	10.09	26745.57		48094-1.RAW	14:52:48	1097.82	Sample	OK	1
1608391-02C	B5	2500	10.09	27176.85		48095-1.RAW	14:56:56	1115.36	Sample	OK	1
1608391-03C	B6	2500	10.09	22707.07		48096-1.RAW	15:01:05	933.58	Sample	OK	1
1608391-04C	B7	2500	10.09	23392.16		48097-1.RAW	15:05:13	961.44	Sample	OK	1
SEQ-CCV9	B8	1	10.09	5.79	115.88	48098-1.RAW	15:09:22	599.19	Sample	OK	1
SEQ-CCB9	B9	1	10.09	0.04	0.00	48099-1.RAW	15:13:30	14.59	Sample	OK	1
1608391-05C	B10	2500	10.09	25751.48		48100-1.RAW	15:17:38	1057.40	Sample	OK	1
1608391-06C	B11	2500	10.09	23987.26		48101-1.RAW	15:21:47	985.65	Sample	OK	1
1608404-01C	B12	2500	10.09	82854.95		48102-1.RAW	15:25:55	3379.78	Sample	FB	1
1608404-02C	C1	2500	10.09	85318.90		48103-1.RAW	15:30:04	3479.99	Sample	OK	1
1608404-03C	C2	5000	10.09	113688.01		48104-1.RAW	15:34:12	2321.92	Sample	FB	1
1608404-04C	C3	5000	10.09	107159.25		48105-1.RAW	15:38:21	2189.16	Sample	OK	1
F608300-DUP1	C4	2500	10.09	19063.59		48106-1.RAW	15:42:29	785.40	Sample	OK	1
F608300-MS1	C5	2500	10.09	76610.66	401.85	48107-1.RAW	15:46:38	3125.83	Sample	OK	1
F608300-MSD1	C6	2500	10.09	77604.81		48108-1.RAW	15:50:46	3166.26	Sample	FB	1
1608391-03RE1	C7	100	10.09	1624.83		48109-1.RAW	15:54:55	1662.12	Sample	OK	1
SEQ-CCVA	C8	1	10.09	6.06		48110-1.RAW	15:59:03	625.90	Sample	OK	1
SEQ-CCBA	C9	1	10.09	0.00		48111-1.RAW	16:03:11	9.37	Sample	OK	1
1608391-04RE1	C10	100	10.09	1242.28		48112-1.RAW	16:07:20	1273.17	Sample	OK	1
F608294-BLK1	C11	50	10.09	0.00		48113-1.RAW	16:11:28	6.53	Sample	OK	1
F608294-BLK2	C12	50	10.09	0.00		48114-1.RAW	16:15:37	2.77	Sample	OK	1
F608294-BLK3	D1	50	10.09	0.81		48115-1.RAW	16:19:45	11.73	Sample	OK	1
F608294-BS1	D2	500	10.09	5683.90		48116-1.RAW	16:23:54	1165.90	Sample	OK	1
F608294-BSD1	D3	500	10.09	5432.37		48117-1.RAW	16:28:02	1114.75	Sample	OK	1
1608253-18	D4	500	10.09	0.00		48118-1.RAW	16:32:11	8.07	Sample	OK	1
1608253-19	D5	500	10.09	0.00		48119-1.RAW	16:36:19	3.78	Sample	OK	1
F608294-DUP1	D6	50	10.09	0.00		48120-1.RAW	16:40:27	8.44	Sample	OK	1
F608294-MS1	D7	500	10.09	5684.95	568495.20	48121-1.RAW	16:44:36	1166.12	Sample	OK	1
SEQ-CCVB	D8	1	10.09	5.92		48122-1.RAW	16:48:44	611.63	Sample	OK	1
SEQ-CCBB	D9	1	10.09	0.00		48123-1.RAW	16:52:53	9.85	Sample	OK	1

F608294-MSD1	D10	500	10.09	5916.86
1608253-18RE1	D11	50	10.09	0.00
1608253-19RE1	D12	50	10.09	0.00
BRCL-1 1604595	A1	1	10.09	0.00
BRCL-2 1604595	A2	1		
BRCL-3 1604595	A3	1	10.09	0.00
BRCL-4 1604595	A4	1	10.09	0.00
SEQ-CCVC	A5	1	10.09	5.82
SEQ-CCBC	A6	1	10.09	0.00
SNCL 1604596	A7	1		
CLEAN				
CLEAN				
WS			10.09	0.00
WS			10.09	0.00
WS			10.09	0.00
SEQ-CCVD	A8	1	10.09	5.78
SEQ-CCBD	A9	1		

48124-1.RAW	16:57:01	1213.28	Sample	OK	1
48125-1.RAW	17:01:10	8.73	Sample	OK	1
48126-1.RAW	17:05:18	7.95	Sample	OK	1
48127-1.RAW	17:09:27	4.41	Sample	OK	1
48128-1.RAW	17:13:35	0.00	Sample	NP	1
48129-1.RAW	17:17:43	1.87	Sample	OK	1
48130-1.RAW	17:21:52	3.62	Sample	OK	1
48131-1.RAW	17:26:00	602.01	Sample	OK	1
48132-1.RAW	17:30:09	7.21	Sample	OK	1
48133-1.RAW	17:34:17	0.00	Sample	NP	1
48134-1.RAW	17:37:09	0.00	Clean	NP	1
48135-1.RAW	17:40:00	0.00	Clean	NP	1
48136-1.RAW	17:44:08	3.77	Sample	OK	1
48137-1.RAW	17:48:17	3.45	Sample	OK	1
48138-1.RAW	17:52:25	3.97	Sample	OK	1
48139-1.RAW	17:56:34	598.09	Sample	OK	1
48140-1.RAW	18:00:42	9.46	Sample	OK	1

Failing Data Report - 6H17009

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
6H17009-ICV1	Hg-CVAFS-S-AR	-0.0003	1.250			5.0000	ng/L		77.00	123.00			PASS-OVER	FAIL-CCV	Re-Analyzed

Don Mason 8/17/16
Analyst Reviewed By Date

D 8.17.16
Peer Reviewed By Date

Failing Data Report - 6H17008

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
6H17008-ICV1	Hg-CVAFS-W-1631	-0.0003	0.495			5.0000	ng/L		77.00	123.00			PASS-OVER	FAIL-CCV	Re-Analyzed

 Dan Moran 8/17/16
Analyst Reviewed By Date


 IP 8-17-16
Peer Reviewed By Date

Failing Data Report - 6H17007

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
6H17007-ICV1	Hg_FSTM_TRAP_A	-0.0003	0.500			5.0000	ng/L		77.00	123.00			PASS-OVER	FAIL-CCV	Re-Analyzed

Don Moran
 Analyst Reviewed By

8/17/16
 Date


 Peer Reviewed By

8-17-16
 Date

Failing Data Report - 6H17006

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
6H17006-ICV1	Hg-CVAFS-S-Bomb	-0.0003	0.835			5.0000	ng/L		77.00	123.00			PASS-OVER	FAIL-CCV	Re-Analyzed

Don Moran
Analyst Reviewed By

8/17/16
Date

[Signature]
Peer Reviewed By

8.17.16
Date

ANALYSIS SEQUENCE

6H17009

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
6H17009-IBL1	QC		1				
6H17009-IBL2	QC		2				
6H17009-IBL3	QC		3				
6H17009-CAL1	QC		4		1603274		
6H17009-CAL2	QC		5		1603275		
6H17009-CAL3	QC		6		1603276		
6H17009-CAL4	QC		7		1603277		
6H17009-CAL5	QC		8		1603278		
6H17009-ICV1	QC		9		1603625		
6H17009-ICV2	QC		10		1603625		
6H17009-ICV3	QC		11		1603625		
F607208-BLK1	QC		12				
F607208-BLK2	QC		13				
F607208-BLK3	QC		14				
F607208-BS1	QC		15				
F607208-BSD1	QC		16				
1607326-65	Hg-CVAFS-S-AR	A	17				Tetra Tech, Inc. Lafayette
1607326-66	Hg-CVAFS-S-AR	A	18				Tetra Tech, Inc. Lafayette
1607326-67	Hg-CVAFS-S-AR	A	19				Tetra Tech, Inc. Lafayette
1607326-68	Hg-CVAFS-S-AR	A	20				Tetra Tech, Inc. Lafayette
1607326-69	Hg-CVAFS-S-AR	A	21				Tetra Tech, Inc. Lafayette
6H17009-CCV1	QC		22		1603625		
6H17009-CCB1	QC		23				
1607326-70	Hg-CVAFS-S-AR	A	24				Tetra Tech, Inc. Lafayette
1607326-71	Hg-CVAFS-S-AR	A	25				Tetra Tech, Inc. Lafayette
1607326-72	Hg-CVAFS-S-AR	A	26				Tetra Tech, Inc. Lafayette
1607327-01	Hg-CVAFS-S-AR	A	27				Tetra Tech, Inc. Lafayette
1607327-02	Hg-CVAFS-S-AR	A	28				Tetra Tech, Inc. Lafayette
1607327-03	Hg-CVAFS-S-AR	A	29				Tetra Tech, Inc. Lafayette
1607327-04	Hg-CVAFS-S-AR	A	30				Tetra Tech, Inc. Lafayette
1607327-05	Hg-CVAFS-S-AR	A	31				Tetra Tech, Inc. Lafayette
1607327-06	Hg-CVAFS-S-AR	A	32				Tetra Tech, Inc. Lafayette
1607327-07	Hg-CVAFS-S-AR	A	33				Tetra Tech, Inc. Lafayette

Don Maxam 8/16/16
 Samples Loaded By _____ Date _____

Don Maxam 8/17/16
 Data Processed By _____ Date _____

ANALYSIS SEQUENCE

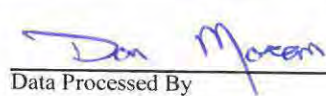
6H17009

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
6H17009-CCV2	QC		34		1603625		
6H17009-CCB2	QC		35				
1607327-08	Hg-CVAFS-S-AR	A	36				Tetra Tech, Inc. Lafayette
1607327-09	Hg-CVAFS-S-AR	A	37				Tetra Tech, Inc. Lafayette
1607327-10	Hg-CVAFS-S-AR	A	38				Tetra Tech, Inc. Lafayette
1607327-11	Hg-CVAFS-S-AR	A	39				Tetra Tech, Inc. Lafayette
1607327-12	Hg-CVAFS-S-AR	A	40				Tetra Tech, Inc. Lafayette
F607208-DUP1	QC		41				
F607208-MS1	QC		42				
F607208-MSD1	QC		43				
F607208-MS2	QC		44				
F607208-MSD2	QC		45				
6H17009-CCV3	QC		46		1603625		
6H17009-CCB3	QC		47				
6H17009-CCV4	QC		48		1603625		
6H17009-CCB4	QC		49				
6H17009-CCV5	QC		50		1603625		
6H17009-CCB5	QC		51				
6H17009-CCV6	QC		52		1603625		
6H17009-CCB6	QC		53				
6H17009-CCV7	QC		54		1603625		
6H17009-CCB7	QC		55				
6H17009-CCV8	QC		56		1603625		
6H17009-CCB8	QC		57				
6H17009-CCV9	QC		58		1603625		
6H17009-CCB9	QC		59				
6H17009-CCVA	QC		60		1603625		
6H17009-CCBA	QC		61				
6H17009-CCVB	QC		62		1603625		
6H17009-CCBB	QC		63				
6H17009-CCVC	QC		64		1603625		
6H17009-CCBC	QC		65				
6H17009-CCVD	QC		66		1603625		


8/16/16
 Samples Loaded By _____ Date _____


8/17/16
 Data Processed By _____ Date _____

ANALYSIS SEQUENCE

6H17009

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
6H17009-CCBD	QC		67				

Don Moran 8/16/16
Samples Loaded By Date

Don Moran 8/17/16
Data Processed By Date


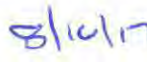
ANALYSIS SEQUENCE

6H17008



Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
6H17008-IBL1	QC		1				
6H17008-IBL2	QC		2				
6H17008-IBL3	QC		3				
6H17008-CAL1	QC		4		1603274		
6H17008-CAL2	QC		5		1603275		
6H17008-CAL3	QC		6		1603276		
6H17008-CAL4	QC		7		1603277		
6H17008-CAL5	QC		8		1603278		
6H17008-ICV1	QC		9		1603625		
6H17008-ICV2	QC		10		1603625		
6H17008-ICV3	QC		11		1603625		
6H17008-CCV1	QC		12		1603625		
6H17008-CCB1	QC		13				
6H17008-CCV2	QC		14		1603625		
6H17008-CCB2	QC		15				
6H17008-CCV3	QC		16		1603625		
6H17008-CCB3	QC		17				
F608311-BLK1	QC		18				
F608311-BLK2	QC		19				
F608311-BLK3	QC		20				
F608311-BLK4	QC		21				
F608311-BS1	QC		22				
F608311-BSD1	QC		23				
1608071-12	Hg-CVAFS-W-1631	A	24				AMEC Foster Wheeler
1608071-13	Hg-CVAFS-W-1631	A	25				AMEC Foster Wheeler
1608071-14	Hg-CVAFS-W-1631	A	26				AMEC Foster Wheeler
1608269-01	Hg-CVAFS-W-1631	A	27				Providence Engineering Baton Rouge
6H17008-CCV4	QC		28		1603625		
6H17008-CCB4	QC		29				
1608269-02	Hg-CVAFS-W-1631	A	30				Providence Engineering Baton Rouge
1608269-03	Hg-CVAFS-W-1631	A	31				Providence Engineering Baton Rouge
1608269-04	Hg-CVAFS-W-1631	A	32				Providence Engineering Baton Rouge
1608319-01	Hg-CVAFS-W-1631	A	33				Enersolv

 Samples Loaded By _____ Date _____

 Data Processed By _____ Date _____

ANALYSIS SEQUENCE

6H17008

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
1608319-02	Hg-CVAFS-W-1631	A	34				Enersolv
1608319-03	Hg-CVAFS-W-1631	A	35				Enersolv
1608356-02	Hg-CVAFS-W-1631	A	36				City of Spokane
1608356-04	Hg-CVAFS-W-1631	A	37				City of Spokane
1608394-01	Hg-CVAFS-W-1631	A	38				Conoco Phillips Wood River Refinery
1608394-02	Hg-CVAFS-W-1631	A	39				Conoco Phillips Wood River Refinery
6H17008-CCV5	QC		40		1603625		
6H17008-CCB5	QC		41				
1608394-03	Hg-CVAFS-W-1631	A	42				Conoco Phillips Wood River Refinery
1608394-04	Hg-CVAFS-W-1631	A	43				Conoco Phillips Wood River Refinery
1608394-05	Hg-CVAFS-W-1631	A	44				Conoco Phillips Wood River Refinery
1608394-06	Hg-CVAFS-W-1631	A	45				Conoco Phillips Wood River Refinery
F608311-DUP1	QC		46				
F608311-MS1	QC		47				
F608311-MSD1	QC		48				
F608311-MS2	QC		49				
F608311-MSD2	QC		50				
6H17008-CCV6	QC		51		1603625		
6H17008-CCB6	QC		52				
6H17008-CCV7	QC		53		1603625		
6H17008-CCB7	QC		54				
6H17008-CCV8	QC		55		1603625		
6H17008-CCB8	QC		56				
6H17008-CCV9	QC		57		1603625		
6H17008-CCB9	QC		58				
6H17008-CCVA	QC		59		1603625		
6H17008-CCBA	QC		60				
6H17008-CCVB	QC		61		1603625		
6H17008-CCBB	QC		62				
6H17008-CCVC	QC		63		1603625		
6H17008-CCBC	QC		64				
6H17008-CCVD	QC		65		1603625		
6H17008-CCBD	QC		66				

Don Moxem 8/16/17
 Samples Loaded By _____ Date _____

Don Moxem 8/17/16
 Data Processed By _____ Date _____

ANALYSIS SEQUENCE

6H17008

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
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Don Mason 8/16/17
Samples Loaded By Date

Don Mason 8/17/16
Data Processed By Date

ANALYSIS SEQUENCE

6H17007

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/16/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6H17007-IBL1	QC	1			
6H17007-IBL2	QC	2			
6H17007-IBL3	QC	3			
6H17007-CAL1	QC	4	1603274		
6H17007-CAL2	QC	5	1603275		
6H17007-CAL3	QC	6	1603276		
6H17007-CAL4	QC	7	1603277		
6H17007-CAL5	QC	8	1603278		
6H17007-ICV1	QC	9	1603625		
6H17007-ICV2	QC	10	1603625		
6H17007-ICV3	QC	11	1603625		
6H17007-CCV1	QC	12	1603625		
6H17007-CCB1	QC	13			
6H17007-CCV2	QC	14	1603625		
6H17007-CCB2	QC	15			
6H17007-CCV3	QC	16	1603625		
6H17007-CCB3	QC	17			
6H17007-CCV4	QC	18	1603625		
6H17007-CCB4	QC	19			
6H17007-CCV5	QC	20	1603625		
6H17007-CCB5	QC	21			
6H17007-CCV6	QC	22	1603625		
6H17007-CCB6	QC	23			
F608300-BLK1	QC	24			
F608300-BLK2	QC	25			
F608300-BLK3	QC	26			
F608300-BS1	QC	27			
F608300-BSD1	QC	28			
1608391-01	Hg_FSTM_TRAP_A	29			
1608391-02	Hg_FSTM_TRAP_A	30			
1608391-03	Hg_FSTM_TRAP_A	31			
1608391-04	Hg_FSTM_TRAP_A	32			
6H17007-CCV7	QC	33	1603625		
6H17007-CCB7	QC	34			
1608391-05	Hg_FSTM_TRAP_A	35			

Due Date: 8/17/2016

ANALYSIS SEQUENCE

6H17007

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/16/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1608391-06	Hg_FSTM_TRAP_A	36			
1608404-01	Hg_FSTM_TRAP_A	37			
1608404-02	Hg_FSTM_TRAP_A	38			
1608404-03	Hg_FSTM_TRAP_A	39			
1608404-04	Hg_FSTM_TRAP_A	40			
6H17007-CCV8	QC	41	1603625		
6H17007-CCB8	QC	42			
6H17007-CCV9	QC	43	1603625		
6H17007-CCB9	QC	44			
F608300-DUP1	QC	45			
F608300-MS1	QC	46			
F608300-MSD1	QC	47			
1608391-03RE1	Hg_FSTM_TRAP_A	48			Added 8/16/2016 by DM2
6H17007-CCVA	QC	49	1603625		
6H17007-CCBA	QC	50			
1608391-04RE1	Hg_FSTM_TRAP_A	51			Added 8/16/2016 by DM2
6H17007-CCVB	QC	52	1603625		
6H17007-CCBB	QC	53			
6H17007-CCVC	QC	54	1603625		
6H17007-CCBC	QC	55			
6H17007-CCVD	QC	56	1603625		
6H17007-CCBD	QC	57			

Don Macken 8/16/16
 Samples Loaded By Date

Don Macken 8/17/16
 Data Processed By Date

Due Date: 8/17/2016

ANALYSIS SEQUENCE

6H17006

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/16/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6H17006-IBL1	QC	1			
6H17006-IBL2	QC	2			
6H17006-IBL3	QC	3			
6H17006-CAL1	QC	4	1603274		
6H17006-CAL2	QC	5	1603275		
6H17006-CAL3	QC	6	1603276		
6H17006-CAL4	QC	7	1603277		
6H17006-CAL5	QC	8	1603278		
6H17006-ICV1	QC	9	1603625		
6H17006-ICV2	QC	10	1603625		
6H17006-ICV3	QC	11	1603625		
6H17006-CCV1	QC	12	1603625		
6H17006-CCB1	QC	13			
6H17006-CCV2	QC	14	1603625		
6H17006-CCB2	QC	15			
6H17006-CCV3	QC	16	1603625		
6H17006-CCB3	QC	17			
6H17006-CCV4	QC	18	1603625		
6H17006-CCB4	QC	19			
6H17006-CCV5	QC	20	1603625		
6H17006-CCB5	QC	21			
6H17006-CCV6	QC	22	1603625		
6H17006-CCB6	QC	23			
6H17006-CCV7	QC	24	1603625		
6H17006-CCB7	QC	25			
6H17006-CCV8	QC	26	1603625		
6H17006-CCB8	QC	27			
6H17006-CCV9	QC	28	1603625		
6H17006-CCB9	QC	29			
6H17006-CCVA	QC	30	1603625		
6H17006-CCBA	QC	31			
F608294-BLK1	QC	32			
F608294-BLK2	QC	33			
F608294-BLK3	QC	34			
F608294-BS1	QC	35			

Due Date: 8/17/2016

ANALYSIS SEQUENCE

6H17006

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 8/16/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
F608294-BSD1	QC	36			
1608253-18	Hg-CVAFS-S-Bomb	37			
1608253-19	Hg-CVAFS-S-Bomb	38			
F608294-DUP1	QC	39			
F608294-MS1	QC	40			
6H17006-CCVB	QC	41	1603625		
6H17006-CCBB	QC	42			
F608294-MSD1	QC	43			
1608253-18RE1	Hg-CVAFS-S-Bomb	44			Added 8/16/2016 by DM2
1608253-19RE1	Hg-CVAFS-S-Bomb	45			Added 8/16/2016 by DM2
6H17006-CCVC	QC	46	1603625		
6H17006-CCBC	QC	47			
6H17006-CCVD	QC	48	1603625		
6H17006-CCBD	QC	49			

Don Moseem 8/16/16
 Samples Loaded By Date

Don Moseem 8/17/16
 Data Processed By Date

Due Date: 8/17/2016

PREPARATION BENCH SHEET

F607208

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 7/22/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F607208-BLK1	Blank	0.5	40					
F607208-BLK2	Blank	0.5	40					
F607208-BLK3	Blank	0.5	40					
F607208-BS1	LCS	0.5	40	1603211	40			
F607208-BSD1	LCS Dup	0.5	40	1603211	40			
F607208-DUP1	Duplicate [1607326-65]	0.5386	40					
F607208-MS1	Matrix Spike [1607326-65]	0.55	40	1603188	200			
F607208-MS2	Matrix Spike [1607326-66]	0.5594	40	1603188	200			
F607208-MSD1	Matrix Spike Dup [1607326-65]	0.5525	40	1603188	200			
F607208-MSD2	Matrix Spike Dup [1607326-66]	0.5196	40	1603188	200			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1603188	THg 1,000ng/mL Primary Spiking Standard	15-Dec-16 00:00	1602381	Fisher Nitric Acid, Tracemetal Grade	16-Sep-17 00:00
1603211	THg 100ng/mL Primary Spiking Standard	16-Dec-16 00:00	1602941	25% Hydroxylamine-HCl working solution	03-Dec-16 00:00
			1603334	Omnitrace Hydrochloric Acid	21-Jun-19 00:00
			1603399	Boiling Chips for AFS prep	01-Jun-17 00:00
			1603826	THg Dilute 1% BrCl	12-Dec-16 00:00
			1603827	THg Washstation (0.5% BrCl)	03-Dec-16 00:00
			1604023	5% BrCl	12-Dec-16 00:00
			1604553	3% SnCl2 THg reductant	04-Feb-17 00:00

PREPARATION BENCH SHEET

F607208

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 7/22/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607326-65	NPCPP-3D2	0.5394	40	-	-	-		
1607326-66	NPCPP-3D3	0.528	40	-	-	-		
1607326-67	NPCPP-3E2	0.547	40	-	-	-		
1607326-68	NPCPP-3F2X	0.5651	40	-	-	-		
1607326-69	NPCPP-3G2	0.531	40	-	-	-		
1607326-70	NPCPP-4G2	0.537	40	-	-	-		
1607326-71	NPCPP-4F2	0.5568	40	-	-	-		
1607326-72	NPCPP-4E2	0.5366	40	-	-	-		
1607327-01	MGWA-1C1X	0.5314	40	-	-	-		
1607327-02	MGWA-1C2	0.5642	40	-	-	-		
1607327-03	MGWA-1C3	0.5465	40	-	-	-		
1607327-04	MGWA-1B2Y	0.5561	40	-	-	-		
1607327-05	MGWA-1B2Y-DUP	0.5344	40	-	-	-		
1607327-06	MGWA-2C1	0.5527	40	-	-	-		
1607327-07	MGWA-2C2	0.533	40	-	-	-		
1607327-08	MGWA-2B2X	0.539	40	-	-	-		
1607327-09	MGWA-3C1	0.5145	40	-	-	-		
1607327-10	MGWA-3B1X	0.5647	40	-	-	-		
1607327-11	MGWA-3C2	0.5145	40	-	-	-		

PREPARATION BENCH SHEET

F607208

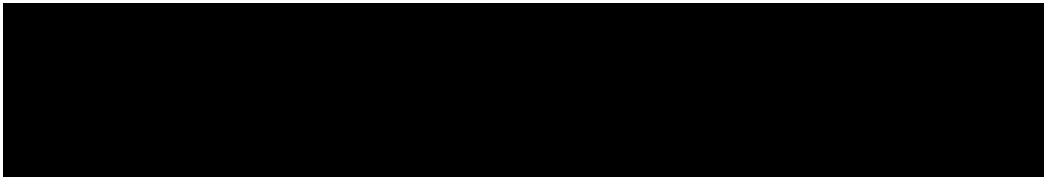
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 7/22/2016

1607327-12	MGWA-3C3	0.5134	40	-	-	-		
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PREPARATION BENCH SHEET

F608311

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/16/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F608311-BLK1	Blank	100	101					
F608311-BLK2	Blank	100	101					
F608311-BLK3	Blank	100	101					
F608311-BLK4	Blank	25	50					
F608311-BS1	LCS	50	50.5	1505246	100			
F608311-BSD1	LCS Dup	50	50.5	1505246	100			
F608311-DUP1	Duplicate [1608394-01]	100	101					
F608311-MS1	Matrix Spike [1608071-12]	49.50495	50	1603190	50			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F608311-MS2	Matrix Spike [1608394-01]	49.50495	50	1603190	100			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F608311-MSD1	Matrix Spike Dup [1608071-12]	49.50495	50	1603190	50			[Spk] 100mL->101mL; 101mL->101mL; Spiked 50mL
F608311-MSD2	Matrix Spike Dup [1608394-01]	49.50495	50	1603190	100			[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>
1505246	Nist 1641D 200X	20-Aug-16 00:00	1602941	25% Hydroxylamine-HCl working solution	03-Dec-16 00:00
1603190	THg 10ng/mL Calibration Standard	15-Sep-16 00:00	1603825	0.2 N BRCL JULY 2016	11-Jan-17 00:00
		15-Sep-16 00:00	1603826	THg Dilute 1% BrCl	12-Dec-16 00:00
			1603827	THg Washstation (0.5% BrCl)	03-Dec-16 00:00
			1604553	3% SnCl2 THg reductant	04-Feb-17 00:00

PREPARATION BENCH SHEET

F608311

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/16/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608071-12	Ponar_072916_SED_QC	100	101	-	-	-		
1608071-13	Shovel_072916_SED_QC	100	101	-	-	-		
1608071-14	Spoon_072916_SED_QC	100	101	-	-	-		
1608269-01	B-4100 008-Hg	100	101	-	-	-	SCAN DATA - LEVEL IV	
1608269-02	B-4103 008-Hg-DUP	100	101	-	-	-	SCAN DATA - LEVEL IV	
1608269-03	B-4104 004-Hg	100	101	-	-	-	SCAN DATA - LEVEL IV	
1608269-04	B-4112 BLANK-HG	100	101	-	-	-	SCAN DATA - LEVEL IV	
1608319-01	Big Cove - Effluent	100	101	-	-	-		
1608319-02	Big Cove - Duplicate	100	101	-	-	-		
1608319-03	Big Cove - Blank	100	101	-	-	-		
1608356-02	B-160347 PLANT INFLUENT #16-12577	100	101	-	-	can Dat	give data to PM for scanning	
1608356-04	B-160403 PLANT EFFLUENT #16-12579	100	101	-	-	can Dat	give data to PM for scanning	
1608394-01	Lagoons	100	101	-	-	-		
1608394-02	Lagoons Field Blank	100	101	-	-	-		
1608394-03	Clarifier	100	101	-	-	-		
1608394-04	Clarifier Field Blank	100	101	-	-	-		
1608394-05	A149	25	50	-	-	-		
1608394-06	A149 Blank	100	101	-	-	-		

PREPARATION BENCH SHEET

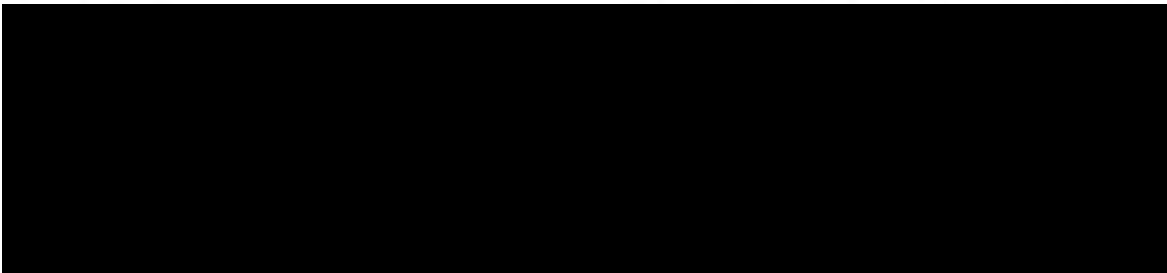
F608311

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/16/2016



PREPARATION BENCH SHEET

F608300

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/15/2016

Lab Number	Sample ID and Source Sample	Initial (Trap)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F608300-BLK1	Blank	1	100					
F608300-BLK2	Blank	1	100					
F608300-BLK3	Blank	1	100					
F608300-BS1	LCS	1	100	1603188	200			
F608300-BSD1	LCS Dup	1	100	1603188	200			
F608300-DUP1	Duplicate [1608391-01]	1	100					
F608300-MS1	Matrix Spike [1608391-01]	0.0002	0.02	1603190	100			[Spk] 1Trap->100mL; 20mL->20mL; Spiked 0.02mL
F608300-MSD1	Matrix Spike Dup [1608391-01]	0.0002	0.02	1603190	100			[Spk] 1Trap->100mL; 20mL->20mL; Spiked 0.02mL

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1603188	THg 1,000ng/mL Primary Spiking Standard	15-Dec-16 00:00	1602941	25% Hydroxylamine-HCl working solution	03-Dec-16 00:00
1603190	THg 10ng/mL Calibration Standard	15-Sep-16 00:00	1603826	THg Dilute 1% BrCl	12-Dec-16 00:00
			1603827	THg Washstation (0.5% BrCl)	03-Dec-16 00:00
			1604510	70/30 Digestion Acid	07-Feb-17 00:00
			1604546	5% BrCl	11-Jan-17 00:00
			1604553	3% SnCl2 THg reductant	04-Feb-17 00:00
			1604558	5% BrCl	11-Jan-17 00:00

PREPARATION BENCH SHEET

F608300

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/15/2016

Lab Number	Sample ID	Initial (Trap)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608391-01	EFGS05609 44 Trap A 7/31/16 - 8/4/16	1	100	-	-	-		
1608391-02	EFGS06014 44 Trap B 7/31/16 - 8/4/16	1	100	-	-	-		
1608391-03	EFGS06068 31/32 Trap A 8/3/16 - 8/4/16	1	100	-	-	-		
1608391-03RE1	EFGS06068 31/32 Trap A 8/3/16 - 8/4/16	1	100	-	-	-	Added 8/16/2016 by DM2	Added 8/16/2016 by DM2
1608391-04	EFGS06146 31/32 Trap B 8/3/16 - 8/4/16	1	100	-	-	-		
1608391-04RE1	EFGS06146 31/32 Trap B 8/3/16 - 8/4/16	1	100	-	-	-	Added 8/16/2016 by DM2	Added 8/16/2016 by DM2
1608391-05	EFGS06022 Unit 33 Trap A 8/2/16 - 8/5/16	1	100	-	-	-		
1608391-06	EFGS06102 Unit 33 Trap B 8/2/16 - 8/5/16	1	100	-	-	-		
1608404-01	EFGS06158 Kiln 1 / Trap A	1	100	-	-	-		
1608404-02	EFGS06114 Kiln 1 / Trap B	1	100	-	-	-		
1608404-03	EFGS06098 Kiln 2 / Trap A	1	100	-	-	-		
1608404-04	EFGS05706 Kiln 2 / Trap B	1	100	-	-	-		



PREPARATION BENCH SHEET

F608294

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-141 Nitric Acid Bomb Digestion

Prepared: 8/15/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (ml)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F608294-BLK1	Blank	0.6	40					
F608294-BLK2	Blank	0.6	40					
F608294-BLK3	Blank	0.6	40					
F608294-BS1	Blank Spike	0.6	40	1603188	200			
F608294-BSD1	Blank Spike Dup	0.6	40	1603188	200			
F608294-DUP1	Duplicate [1608253-18RE1]	0.614	40					
F608294-MS1	Matrix Spike [1608253-18RE1]	0.612	40	1603188	200			
F608294-MSD1	Matrix Spike Dup [1608253-18RE1]	0.621	40	1603188	200			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1603188	THg 1,000ng/mL Primary Spiking Standard	15-Dec-16 00:00	1600451	Boiling Chips for AFS prep	14-Dec-16 00:00
			1602941	25% Hydroxylamine-HCl working solution	03-Dec-16 00:00
			1603826	THg Dilute 1% BrCl	12-Dec-16 00:00
			1603827	THg Washstation (0.5% BrCl)	03-Dec-16 00:00
			1604512	Fisher Nitric Acid, Tracemetal Grade	24-Mar-18 00:00
			1604553	3% SnCl2 THg reductant	04-Feb-17 00:00

PREPARATION BENCH SHEET

F608294

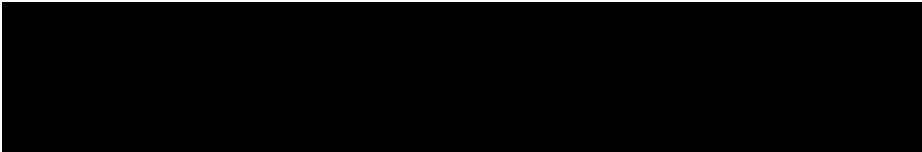
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-141 Nitric Acid Bomb Digestion

Prepared: 8/15/2016

Lab Number	Sample ID	Initial (g)	Final (ml)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608253-18	740-2016-00012237 EUUSBO2-00083384	0.616	40	-	See COC	-		
1608253-18RE1	740-2016-00012237 EUUSBO2-00083384	0.616	40	-	See COC	-	Added 8/16/2016 by DM2	Added 8/16/2016 by DM2
1608253-19	740-2016-00012239 EUUSBO2-00083386	0.609	40	-	See COC	-		
1608253-19RE1	740-2016-00012239 EUUSBO2-00083386	0.609	40	-	See COC	-	Added 8/16/2016 by DM2	Added 8/16/2016 by DM2



PREPARATION BENCH SHEET

200.3
8/16/16 DM

F607208

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 7/22/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F607208-BLK1	Blank	0.5	40					20x
F607208-BLK2	Blank	0.5	40					20x
F607208-BLK3	Blank	0.5	40					20x
F607208-BS1	LCS	0.5	40	1603211	40			20x
F607208-BSD1	LCS Dup	0.5	40	1603211	40			20x
F607208-DUP1	Duplicate [1607326-65]	0.5386	40					100x
F607208-MS1	Matrix Spike [1607326-65]	0.55	40	1603188	200			500x
F607208-MS2	Matrix Spike [1607326-66]	0.5594	40	1603188	200			500x
F607208-MSD1	Matrix Spike Dup [1607326-65]	0.5525	40	1603188	200			500x
F607208-MSD2	Matrix Spike Dup [1607326-66]	0.5196	40	1603188	200			500x

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1603188	THg 1,000ng/mL Primary Spiking Standard	15-Dec-16 00:00	1602381	Fisher Nitric Acid, Tracemetal Grade	16-Sep-17 00:00
1603211	THg 100ng/mL Primary Spiking Standard	16-Dec-16 00:00	1603334	Omnitrace Hydrochloric Acid	21-Jun-19 00:00
			1603399	Boiling Chips for AFS prep	01-Jun-17 00:00
			1604023	5% BrCl	12-Dec-16 00:00

1603526
1603527
1602041
1604553

PREPARATION BENCH SHEET

2000-3

8/16/16 DM

F607208

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 7/22/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	Sample Comments	Analysis Comments
1607326-65	NPCPP-3D2	0.5394	40		100X
1607326-66	NPCPP-3D3	0.528	40		100X
1607326-67	NPCPP-3E2	0.547	40		100X
1607326-68	NPCPP-3F2X	0.5651	40		100X
1607326-69	NPCPP-3G2	0.531	40		100X
1607326-70	NPCPP-4G2	0.537	40		100X
1607326-71	NPCPP-4F2	0.5568	40		100X
1607326-72	NPCPP-4E2	0.5366	40		100X
1607327-01	MGWA-1C1X	0.5314	40		100X
1607327-02	MGWA-1C2	0.5642	40		100X
1607327-03	MGWA-1C3	0.5465	40		100X
1607327-04	MGWA-1B2Y	0.5561	40		100X
1607327-05	MGWA-1B2Y-DUP	0.5344	40		100X
1607327-06	MGWA-2C1	0.5527	40		100X
1607327-07	MGWA-2C2	0.533	40		100X
1607327-08	MGWA-2B2X	0.539	40		100X
1607327-09	MGWA-3C1	0.5145	40		100X
1607327-10	MGWA-3B1X	0.5647	40		100X
1607327-11	MGWA-3C2	0.5145	40		100X
1607327-12	MGWA-3C3	0.5134	40		100X

PREPARATION BENCH SHEET

F607208

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 7/22/2016

EFGS-066 Solids - Total Mercury - Cold AR

Technician: MPM Batch#: F607208 Date: 7/22/16

EFGS-066 Solids - Total Mercury - Cold AR: **18-25°C for over four hours.**

Vial Type: Glass
ID# 00064819

Balance#: 19 Calibrated? Yes No

Final vol.: 40 mL 5% BrCl LIMS ID: 1604023 Spike vol.: SEE BELOW µL

Spike Witness: DM 7/22/16 (initial and date)

HCl LIMS ID: 1603334 Pipette SN#: MU11619 Calibration Date: 7/22/16

HNO₃ LIMS ID: 1602381 Dispenser #: 0842293 Calibrated? Yes No

Other Reagent/LIMS IDs: N/A Dispenser #: 09N45351 Calibrated? Yes No

Dispenser #: 02K27499 Calibrated? Yes No

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
D1	F607208-BLK 1	0.5207	D23	1607327-05	0.5344	
D2	F607208-BLK 2	0.5264	D24	1607327-06	0.5527	
D3	F607208-BLK 3	0.5271	D25	1607327-07	0.5330	
D4	F607208-BS1	0.5390	D26	1607327-08	0.5376	Comments
D5	F607208-BSD1	0.5598	D27	1607327-09	0.5145	BS Spike/BSD LIMS
D6	1607326-65	0.5394	D28	1607327-10	0.5647	ID: <u>1603211</u>
D7	F607208-DUP(1607326-65)	0.5386	D29	1607327-11	0.5145	40 µL of 100ng/mL MPM 7/22/16
D8	F607208-MS1(1607326-65)	0.5500	D30	1607327-12	0.5134	
D9	F607208-MSD1(1607326-65)	0.5525	D31			
D10	1607326-66	0.5280	D32			MS/MSD Spike LIMS
D11	F607208-MS2(1510191-01) <u>1607326-66</u> 7/22/16	0.5594	D33			ID: <u>1603188</u>
D12	F607208-MSD2(1510191-01) <u>1607326-66</u> 7/22/16	0.5196	D34			200µL of 1000ng/mL MPM 7/22/16
D13	1607326-67	0.5470	D35			
D14	1607326-68	0.5451	D36			Boiling Chip ID <u>1603399</u> 7/22/16 MPM
D15	1607326-69	0.5316	D37			
D16	1607326-70	0.5370	D38			
D17	1607326-71	0.5568	D39			
D18	1607326-72	0.5366	D40			
D19	1607327-01	0.5314	D41			
D20	1607327-02	0.5442	D42			
D21	1607327-03	0.5465	D43			
D22	1607327-04	0.5561	D44			MPM 7/22/16

PREPARATION BENCH SHEET

F608311

Eurofins Frontier Global Sciences, Inc.

2600-3
8/16/16 DM

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/16/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F608311-BLK1	Blank	100	101					1X
F608311-BLK2	Blank	100	101					1X
F608311-BLK3	Blank	100	101					1X
F608311-BLK4	Blank	25 100	50 101					10X
F608311-BS1	LCS DM 8-16-16	50 100	50 101	1505246	100			1X
F608311-BSD1	LCS Dup 1608311-01	50 100	50 101	1505246	100			1X
F608311-DUP1	Duplicate 1608311-12	100	101					1X
F608311-MS1	Matrix Spike 1608311-12	100	101	1603190	50			1X
F608311-MS2	Matrix Spike 1608311-01	100	101	1603190	100			1X
F608311-MSD1	Matrix Spike Dup 1608311-12	100	101	1603190	50			1X
F608311-MSD2	Matrix Spike Dup 1608311-01	100	101	1603190	100			1X

Standard ID(s): Description:

Expiration:

1603825
1602941
1603827
1603826
1604553

PREPARATION BENCH SHEET

2600-3
8/16/16 DM

F608311

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/16/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608071-12	Ponar_072916_SED_QC	100	101	-	-	-		IX
1608071-13	Shovel_072916_SED_QC	100	101	-	-	-		IX
1608071-14	Spoon_072916_SED_QC	100	101	-	-	-		IX
1608269-01	B-4100 008-Hg	100	101	-	-	-	SCAN DATA - LEVEL IV	IX
1608269-02	B-4103 008-Hg-DUP	100	101	-	-	-	SCAN DATA - LEVEL IV	IX
1608269-03	B-4104 004-Hg	100	101	-	-	-	SCAN DATA - LEVEL IV	IX
1608269-04	B-4112 BLANK-HG	100	101	-	-	-	SCAN DATA - LEVEL IV	IX
1608319-01	Big Cove - Effluent	100	101	-	-	-		IX
1608319-02	Big Cove - Duplicate	100	101	-	-	-		IX
1608319-03	Big Cove - Blank	100	101	-	-	-		IX
1608356-02	B-160347 PLANT INFLUENT #16-12577	100	101	-	-	scan Dat	give data to PM for scanning	IX
1608356-04	B-160403 PLANT EFFLUENT #16-12579	100	101	-	-	scan Dat	give data to PM for scanning	IX
1608394-01	Lagoons	100	101	-	-	-		IX
1608394-02	Lagoons Field Blank	100	101	-	-	-		IX
1608394-03	Clarifier	100	101	-	-	-		IX
1608394-04	Clarifier Field Blank	100	101	-	-	-		IX
1608394-05	A149	100 25	101 55	-	-	-		IX
1608394-06	A149 Blank	100	101	-	-	-		IX

PREPARATION BENCH SHEET

F608311

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

Prepared using: AFS - EPA 1631E BrCl Oxidation

Prepared: 8/16/2016



Total Mercury Preservation Logbook

Initial preservation and/or verification

Technician: CSQ Date: 8/3/16 Time Completed: 1750

Work Orders: 1608109, 1608114
1608113, 1608108, 1608071

Additional preservation and/or verification (as needed)

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

BrCl LIMS ID: ~~MU3222A~~ 1603196
1603825
 Pipette SN: MU3222A
 Cal. Date: 7/29/16

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1608109-01A	600	6.00	y			
1608109-03A	600	6.00	y			
1608109-05A	600	6.00	y			
1608109-07A	600	6.00	y			
1608109-09A	600	6.00	y			
1608109-11A	600	6.00	y			
1608113-01A	170	1.70	y			
1608113-02A	150	1.50	y			
1608113-03A	300	3.00	y			
1608113-04A	300	3.00	y			
1608113-05A	170	1.70	y			
1608113-06A	160	1.60	y			
1608113-07A	300	3.00	y			
1608113-08A	300	3.00	y			
1608113-09A	300	3.00	y			
1608113-10A	300	3.00	y			
1608108-01A	300	3.00	y			
1608108-02A	3.00 ^{CSQ 8/3/16} 300	3.00	y			
1608108-03A	3.00 ^{CSQ 8/3/16} 300	3.00	y			
1608108-05A	300	15.00	y			
1608108-06A	3.00 ^{CSQ 8/3/16} 300	3.00	y			
1608108-06A	3.00 ^{CSQ 8/3/16} 300	3.00	y			
1608071-12	150	1.50	y			
1608071-13	150	1.50	y			
1608071-14	150	1.50	y			
1608114-01B	10	10.00	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: 50/50 BrCl using BrCl 1603825 - sample spiked in temperature

Total Mercury Preservation Logbook

Initial preservation and/or verification

Technician: CSP Date: 8/9/16 Time Completed: 1730

Work Orders: 1608269

Additional preservation and/or verification (as needed)

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

BrCl LIMS ID: 1603825
 Pipette SN: MU32229
 Cal. Date: 9/5/16

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1608269-01A	300	3.00	Y			
1608269-02A	300	3.00	Y			
1608269-03A	300	3.00	Y			
1608269-04A	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="font-size: 2em; margin: 0;">CSP 8/9/16</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: 8/10/16 Time Completed: 1633

Work Orders: 1608316, 1608324
1608319, 1608317, 1608318
1608325
 CSP 8/10/16
 BrCl LIMS ID: MU3 1603825
1603825
 Pipette SN: MU32229, MU32229
 Cal. Date: 8/5/16, 8/5/16

Additional preservation and/or verification (as needed)

Technician: CSP Date: 8/11/16 Time Completed: 429
 Technician: _____ Date: _____ Time Completed: _____

Sample ID	Sample Volume (mL)	Reagent added (mL)	Oxidized? Y/N	Additional preservation (as needed)		
				Oxidized? Y/N	Reagent added (mL)	Oxidized? Y/N
1608316-01A	300	3.00	y			
1608316-02A	300	3.00	y			
1608316-03A	300	3.00	y			
1608316-04A	300	3.00	y			
* 1608316-05A	300	15.00	y	N		
1608316-06A	300	3.00	y			
1608324-01A	300	3.00	y			
1608324-02A	300	3.00	y			
1608324-03A	300	3.00	y			
1608324-04A	300	3.00	y			
1608324-05A	300	3.00	y			
1608324-06A	300	3.00	y			
1608319-01A	300	3.00	y			
1608319-02A	300	3.00	y			
1608319-03A	300	3.00	y			
1608317-01A	300	3.00	y			
1608317-02A	300	3.00	y			
1608318-01A	300	3.00	y			
1608318-02A	300	3.00	y			
1608318-03A	300	3.00	y			
1608325-21A	300	3.00	y			
1608324-07A	300	3.00	y			
1608317-03A	300	3.00	y			
CSP 8/10/16						

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

Comments: 1603825-21A, 1608324-07A, 1608317-03 are preservation blanks sharing the same bottle
 * 50/50 split

revised
8/12/16

Total Mercury Preservation Logbook

Initial preservation and/or verification

Technician: CSG Date: 8/11/16 Time Completed: 1715

Work Orders: 1608357, 1608356
1608359, 1608360, 1608358

Additional preservation and/or verification (as needed)

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

BrCl LIMS ID: 1603825
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
1608357-01 A	300	3.00	y			
1608357-02 A	300	3.00	y			
1608357-03 A	300	3.00	y			
1608357-04 A	300	3.00	y			
1608357-05 A	300	3.00	y			
1608357-06 A	300	3.00	y			
1608356-02 A	300	3.00	y			
1608356-04 A	300	3.00	y			
1608359-01 A	300	3.00	y			
1608359-02 A	300	3.00	y			
1608359-03 A	300	3.00	y			
1608359-04 A	300	3.00	y			
1608359-05 A	300	3.00	y			
1608360-01 A	300	3.00	y			
1608360-02 A	300	3.00	y			
1608360-03 A	300	3.00	y			
1608360-04 A	300	3.00	y			
1608360-05 A	300	3.00	y			
1608358-01 A	300	3.00	y			
1608358-02 A	300	3.00	y			
1608358-03 A	300	3.00	y			
1608358-04 A	300	3.00	y			
1608358-05 A	300	3.00	y			
1608358-06 A	300	3.00	y			
1608358-07 A	300	3.00	y			
1608358-08 A	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: _____

Reviewed
8/12/16

Total Mercury Preservation Logbook

Initial preservation and/or verification

Technician: CSJ Date: 8/12/16 Time Completed: 1720

Work Orders: 1608394, 1608393
1608361

Additional preservation and/or verification (as needed)

Technician: CSJ Date: 8/13/16 Time Completed: 1119
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
1608394-01A	300	3.00	y			
1608394-02A	300	3.00	y			
1608394-03A	300	3.00	y			
1608394-04A	300	3.00	y			
1608394-05A	300	15.00	N	N	9.00	y
1608394-06A	300	3.00	y			
1608393-01A	300	3.00	y			
1608393-02A	300	3.00	y			
1608393-03A	300	3.00	y			
1608393-04A	300	3.00	y			
1608393-05A	300	3.00	y			
1608393-06A	300	3.00	y			
1608393-07A	300	3.00	y			
1608393-08A	300	3.00	y			
1608361-28A	290	2.90	y			
1608361-30A	300	3.00	y			
1608361-33A	285	2.85	y			
1608361-36A	300	3.00	y			
1608361-39A	300	3.00	y			
1608361-42A	300	3.00	y			
1608361-45A	300	3.00	y			
1608361-48A	300	3.00	y			
CSJ 8/12/16						

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

PREPARATION BENCH SHEET

2600-3
8/16/16 DM

F608300

Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/15/2016

Lab Number	Sample ID and Source Sample	Initial (Trap)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F608300-BLK1	Blank	1	100					100X
F608300-BLK2	Blank	1	100					100X
F608300-BLK3	Blank	1	100					100X
F608300-BS1	LCS	1	100	1603188	200			500X
F608300-BSD1	LCS Dup	1	100	1603188	200			500X
F608300-DUP1	Duplicate 1608301-01	1	100					2500X
F608300-MS1	Matrix Spike 1608301-01	1	100	1603190	100			2500X
F608300-MSD1	Matrix Spike Dup 1608301-01	1	100	1603190	100			2500X

<u>Standard ID(s):</u> 1603188	<u>Description:</u> THg 1,000ng/mL Primary Spiking Standard	<u>Expiration:</u> 15-Dec-16 00:00	<u>Reagent ID(s):</u> 1604510 1604546 1604558	<u>Description:</u> 70/30 Digestion Acid 5% BrCl	<u>Expiration:</u> 07-Feb-17 00:00 11-Jan-17 00:00
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DM 8/16/16
16035286
1602941
1603527
1604553

PREPARATION BENCH SHEET

2600-3

8/16/16 DM

F608300

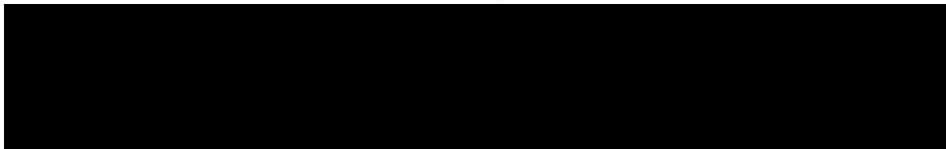
Eurofins Frontier Global Sciences, Inc.

Matrix: Air

Prepared using: AFS - EFGS-009 FSTM Trap Nitric/Sulfuric Digestion

Prepared: 8/15/2016

Lab Number	Sample ID	Initial (Trap)	Final (mL)	Sample Comments A	B Analysis Comments	C
1608391-01	EFGS05609 44 Trap A 7/31/16 - 8/4/16	1	100	Do not oven, No 2500X	100X	2500X
1608391-02	EFGS06014 44 Trap B 7/31/16 - 8/4/16	1	100	Do not oven, No 2500X	100X	2500X
1608391-03	EFGS06068 31/32 Trap A 8/3/16 - 8/4/16	1	100	Do not oven, No 2500X → 100X	100X	2500X
1608391-04	EFGS06146 31/32 Trap B 8/3/16 - 8/4/16	1	100	Do not oven, No 2500X → 100X	100X	2500X
1608391-05	EFGS06022 Unit 33 Trap A 8/2/16 - 8/5/16	1	100	Do not oven, No 2500X	100X	2500X
1608391-06	EFGS06102 Unit 33 Trap B 8/2/16 - 8/5/16	1	100	Do not oven, No 2500X	100X	2500X
1608404-01	EFGS06158 Kiln 1 / Trap A	1	100	No 2500X	100X	2500X
1608404-02	EFGS06114 Kiln 1 / Trap B	1	100	No 2500X	100X	2500X
1608404-03	EFGS06098 Kiln 2 / Trap A	1	100	No 2500X	100X	5000X
1608404-04	EFGS05706 Kiln 2 / Trap B	1	100	No 2500X	100X	5000X



Trap Digestions

Name: CLC Date: 8/15/16 Batch ID: F608300
 Work Order(s): 1608391, 1608404 Analysis: Total Hg Other _____
 Sample Matrix: FSTM KCl PHg Plug Other _____
 Prep: 70/30 Digestion, 2 hr. @ ~55°C (EFAFS-T-AFS-SOP2985)
 start time: 1207, start temp (°C): 54.0 (raw) 53.6 (w/ CF)
 end time: 1410, end temp (°C): 68.0 (raw) 67.6 (w/ CF) Timer? Yes No
 5% BrCl Oxidation (EFGS-031) start time: _____ (allow samples to sit for at least 4 hr before analysis)
 Other _____

Sample ID Number	Digest vol. (mL)	
F608300-BLK1	100	Spike ID: <u>1603188</u>
F608300-BLK2	100	
F608300-BLK3	100	
F608300-BS1	100	Spike Amount (µL): <u>200</u>
F608300-BS D1	100	Spike Witness: <u>DH 8/15/16</u>
1608391-D1A	100	BrCl ID: <u>1604546, 1604558</u>
1608391-01B	100	
1608391-01C	100	70/30: <u>1604510</u>
1608391-02A	100	Other: <u>NA</u>
1608391-02B	100	Thermometer: <u>13698</u>
1608391-02C	100	
1608391-03A	100	Dispensers: 02K27494 <input checked="" type="checkbox"/>
1608391-03B	100	04N73497 <input checked="" type="checkbox"/>
1608391-03C	100	Other: <u>NA</u>
1608391-04A	100	Pipette ID: <u>MU11619</u>
1608391-04B	100	
1608391-04C	100	Cal. Date: <u>8/10/16</u>
1608391-05A	100	Vials and Jars lot# <u>00064654</u> <u>00064924</u>
1608391-05B	100	
1608391-05C	100	Loader Mass Verification: <u>Y</u>
1608391-06A	100	Trap Material Lot#: <u>1603214</u>
1608391-06B	100	
1608391-06C	100	Comments: 1608391-01, -02, -03, -04, -05, -06 'C' beds spiked at 2,700 ng 1608404-01 and -02 'C' beds spiked @ 9,000 ng. ^{CLC 8/15/16} 1608404-03 and -04 'C' beds spiked @ 13,000 ng. CLC 8/15/16
1608404-01A	100	
1608404-01B	100	
1608404-01C	100	
1608404-02A	100	
1608404-02B	100	
1608404-02C	100	
1608404-03A	100	
1608404-03B	100	
1608404-03C	100	
1608404-04A	100	
1608404-04B	100	
1608404-04C	100	

PREPARATION BENCH SHEET

200.3

8/16/16 DM

F608294

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-141 Nitric Acid Bomb Digestion

Prepared: 8/15/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (ml)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F608294-BLK1	Blank	0.6	40					50X
F608294-BLK2	Blank	0.6	40					50X
F608294-BLK3	Blank	0.6	40					50X
F608294-BS1	Blank Spike	0.6	40	1603188	200			500X
F608294-BSD1	Blank Spike Dup	0.6	40	1603188	200			500X
F608294-DUP1	Duplicate [1608253-18] RE1	0.614	40					50X
F608294-MS1	Matrix Spike [1608253-18] RE1	0.612	40	1603188	200			500X
F608294-MSD1	Matrix Spike Dup [1608253-18] RE1	0.621	40	1603188	200			500X

Standard ID(s): 1603188
 Description: THg 1.000ng/mL Primary Spiking Standard

Expiration: 15-Dec-16 00:00

Reagent ID(s): 1600451, 1604512
 Description: Boiling Chips for AFS prep, Fisher Nitric Acid, Tracemetal Grade

Expiration: 14-Dec-16 00:00, 24-Mar-18 00:00

1602941
 1603827
 1604553
 1603826

PREPARATION BENCH SHEET

2600-3

8/16/16 DM

F608294

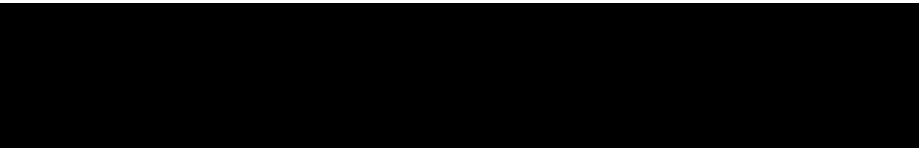
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: AFS - EFGS-141 Nitric Acid Bomb Digestion

Prepared: 8/15/2016

Lab Number	Sample ID	Initial (g)	Final (ml)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608253-18	740-2016-00012237 EUUSBO2-00083384	0.616	40	-	See COC	-		500X → 50X
1608253-19	740-2016-00012239 EUUSBO2-00083386	0.609	40	-	See COC	-		500X → 50X



Oven Bomb Digestions

Lab Tech(s): Dwyer Spiked By: DM TM Batch #: N/A Hg Batch #: F608294
 Balance #: 10 Oven SN: 2 Therm. SN: 151003777
 Temp. (°C): 159.1 (w/o CF) 158.7 (w/ CF) Date In: 8/15/16 Time In: 1520
 Date Out: 8/16/16 Time Out: 9:20 Final Vol. (mL): 40

Spike Name	Volume (µL)	LIMS #	Combined LIMS #
<u>Hg/1000µg/L</u>	<u>200</u>	<u>1603188</u>	
			<u>8-16-16</u> <u>DM</u>

SW: BC 8-15-16

Pipette / Dispenser	Cal Date
<u>MW 11619</u>	<u>8-10-16</u>
<u>0.9N 45351</u>	<u>8-15-16</u>
<u>8-16-16</u> <u>DM</u>	

EFGS-111 130±5°C 12 hours
(below applies to entire batch)

4 mL split removed and 5% BrCl added? Y

LIMS #: _____

Added 25 mL of HF/HNO₃ solution? Y

LIMS #: _____

Added 3 mL conc. HCl? Y

LIMS #: _____

Boil Down	Step 1	25 mL conc. HNO ₃ added? <input type="checkbox"/> Y <input type="checkbox"/>
	Step 2	25 mL conc. HNO ₃ added? <input type="checkbox"/> Y <input type="checkbox"/>
	Step 3	5 mL conc. HNO ₃ added? <input type="checkbox"/> Y <input type="checkbox"/>

EFGS-084 130±5°C 18 hours
(below applies to entire batch)

Added 10 mL conc. HCl? Y

LIMS #: _____

Added 7 mL conc. HNO₃? Y

LIMS #: _____

EFGS-141 160±5°C 18 hours
(below applies to entire batch)

Added 7.5 mL conc. HNO₃? Y

LIMS #: 1604512

#	Sample / Batch ID	Bomb #	Sample (g)	Notes
1	<u>F608294 Blank 1</u>	<u>N294</u>	<u>0.603</u>	
2	<u>F608294 Blank 2</u>	<u>N13</u>	<u>0.609</u>	
3	<u>F608294 Blank 3</u>	<u>120</u>	<u>0.650</u>	
4	<u>F608294 BS1</u>	<u>H241</u>	<u>0.607</u>	
5	<u>F608294 BS01</u>	<u>74007</u>	<u>0.627</u>	
6	<u>F608294 dup1</u>	<u>N1273</u>	<u>0.614</u>	<u>1608253-18</u>
7	<u>F608294 MS1</u>	<u>N35</u>	<u>0.612</u>	<u>1608253-18</u>
8	<u>F608294 MS01</u>	<u>N309</u>	<u>0.621</u>	<u>1608253-18</u>
9	<u>1608253-18A</u>	<u>N319</u>	<u>0.616</u>	
10	<u>1608253-19A</u>	<u>119</u>	<u>0.609</u>	
11	<u>8-16-16 DM</u>			
12	<u>8-16-16 DM</u>			

Reviewed 8/16/16 DM

Additional Comments:
Boiling chips 1600451
Dup 1
MS1
MS01
summary: 1608253-18

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

Analyst:	DON MORAN	Sequence(s) #:	6H17009, 6H17008, 6H17007, 6H17006
Reviewer:	DAN WEIKART	Dataset ID(s):	THG26003-160816-1
Date:	8/17/2016	WO (s) #:	VARIOUS
Batch #(s):	F607208, F608311, F608300, F608294		

• Select the correct preparation method.

Analyte	Prep Method		Matrix
<input checked="" type="checkbox"/> THg	EFAFS-T-AFS-SOP2985	FSTM Trap 70:30 Digest	Air/Gas
<input 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 checked="" 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?) YES NO
2. Check for transcription errors from Excel spreadsheet (or Prep Benchsheet)/Raw data YES NO
 - (a) On raw data (instrument print-out), does correct file (dataset ID#) name appear in description? YES NO

Naming convention: THg26001-yymmdd-1 or THg26002-yymmdd-1
 - (b) Check 5% of transcription from Instrument print-out and Excel file YES NO

Compare the "Dilute" and "Peak (raw)" columns to "Dilution" and "Uncorrected Result" in Excel
 - (c) Check standards & reagents in sequence & bench sheet for correct usage (expiries). YES NO N/A
 - (d) Check and compare masses (review prep benchsheet) YES NO N/A
 - (e) Check & compare initial & final volumes YES NO N/A
 - (f) Do aliquots and dilutions written on benchsheet match those in Excel? YES NO N/A

50 ml / aliquot = Excel dilution value
 - (g) Is the sequence #, analyst, date, and instrument # on the QC page? YES NO
 - (h) Is the analysis status correct? (analyzed/initial review/reviewed) YES NO
 - (i) Original prep bench sheet added to data package? YES NO
 - (j) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract) YES NO
3. High QA? WO#(s)/Client(s): _____ YES NO
4. Client specific QC? (if Yes, refer to Project Notes/LIMS) YES NO
 - (a) Have the QC requirements been met for all WO#s? YES NO
 - (b) Prep blanks corrections/assigned properly YES NO
- 5a. 20 or fewer samples in batch? YES NO
 - (i) 3 PBs, 1 LCS(or BS), 1 LCSD(or BSD), 1 DUP/Batch 1 MS/MSD (or AS/ASD)/10 samples? YES NO
 - (ii) 1 CCV and 1 CCB every 10 analytical runs? YES NO

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

Analyst:	DON MORAN	Sequence(s) #:	6H17009, 6H17008, 6H17007, 6H17006
Reviewer:	0	Dataset ID(s):	THG26003-160816-1
Date:	8/17/2016	WO (s) #:	VARIOUS
Batch #(s):	F607208, F608311, F608300, F608294		0

Analyst Initials DM

Reviewer Initials DMW

5b. Has the B/C section data been uploaded?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input type="checkbox"/>
QA/QC Data Checked				
6. RSD CF ($\leq 15\%$)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments:				
7. The calibration curve included a minimum of 5 Standards	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
Comments:				
8. 1st Calibration Standard % Recoveries EPA 1631E (75-125%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
9. ICV and CCV % Recoveries EPA 1631E (77-123%)	<input checked="" type="checkbox"/> PASS	<input checked="" type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments: SEQ-ICV1 FAILED. NOT SPIKED. RE-ANALYZED AND PASSED				
10. Do all calibration points pass acceptance criteria?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
Comments:				
11. Are qualifiers consistent with the data review flowcharts?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments:				
12. Explain any items on the failed data report from Element				<input checked="" type="checkbox"/>
Comments: <u>SEQ-ICV1 FAILED. NOT SPIKED. RE-ANALYZED AND PASSED</u>				
13. Are the individual Preparation Blanks < PQL or <2.2xMDL for WI (refer to appropriate prep method PQL list)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
(a) If not < PQL or <2.2xMDL for WI, note which PB(s) are above control limit:				
(b) Is the mean PB < PQL or <2.2xMDL for WI (for appropriate qualification)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(c) Was a BrCl Blank analyzed for each preservation level?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(d) Are Preparation Blanks summarized on QC page?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
14. Filtration Blank Prepared (if yes, use FB qualifier)	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		<input checked="" type="checkbox"/>
(a) Filtration Blank prep date same as associated samples' prep date	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(b) Filtration Blank absolute value < PQL or <2.2xMDL for WI	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
15. IBLs (3 minimum) individually < 0.50 ng/L, mean < 0.25 ng/L and STD of 0.10 ng/L?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments:				
16. CCBs individually < 0.50 ng/L or 2.2 x MDL for WI?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments:				
17. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done)	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
18. Is the correct 'Source' designated for MD/MS/MSD?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
19. For digested preps: was there a spike witness signature & date on the prep bench sheet?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>

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

Analyst:	DON MORAN	Sequence(s) #:	6H17009, 6H17008, 6H17007, 6H17006
Reviewer:	0	Dataset ID(s):	THG26003-160816-1
Date:	8/17/2016	WO (s) #:	VARIOUS
Batch #(s):	F607208, F608311, F608300, F608294		0

Analyst Initials DM

Reviewer Initials DMW

20. MS/MSD Spiked at least 1-5 X ambient or 5x MRL (whichever is higher) ? YES NO
- Comments: _____
21. Are all samples within instrument calibration range? (or at minimum dilution size) PASS FAIL
- Comments: _____
22. Are the samples run at the correct dilution level for the method? YES NO
- Comments: _____
23. Dissolved < Total (if applicable) YES NO N/A
- Comments: _____
24. Effluent < Influent (visually confirm if needed) YES NO N/A
- Comments: _____
25. Are re-runs noted with reason? YES NO N/A
- 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? YES NO N/A
- Comments: _____
27. Is the B trap <5% A Traps YES NO N/A
- Comments: _____
28. Are spiked trap recoveries 75-125% of true value? YES NO N/A
- Comments: _____
29. Have non-reportable samples been imported into LIMS and clicked to non-reportable? YES NO N/A
- Comments: _____
30. Have re-extracts been created for non-reportable samples? YES NO N/A
31. Are there any HIGH QA projects within the data? If so, place data package in QA office before scanning. YES NO N/A
32. Does the data set need scanning? YES NO N/A
33. Does the dataset have an LOQ/LOQ or DOC? YES NO N/A
34. Water samples: has the preservation log been included in dataset for final volume verification? YES NO N/A
35. Water samples-is the final volume correct in the sequence? YES NO N/A
- Files located at: \\Cuprum\igen_admin\Quality Assurance\Training Master\IDOCs
36. Date of analyst IDOC/CDOC: _____ 1/18/2016 _____ IDOC/CDOC within last 12 months? YES NO
37. Date of analyst's SOP reading for method: _____ 5/20/2016 _____ Current SOP revision read? YES NO
38. Date of LOD: 6/23/16, 6/14/16, 5/12/16 LOD within last 3 months? YES NO
39. Date of LOQ: 6/23/16, 6/14/16, 5/12/16 LOQ within last 3 months? YES NO

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

Analysis Datasheet for Total Mercury

Date of Analysis: September 06, 2016

Analyst: DM2

Instrument #: Hg2600-3

Units ng/L

LIMS Sequence #: 6107006

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.50 ng/L	64.60 units	129.20	61.06 units	122.12	104.5 %Rec
SEQ-CAL2	1	1.00 ng/L	119.45 units	119.45	115.91 units	115.91	99.2 %Rec
SEQ-CAL3	1	5.00 ng/L	580.49 units	116.10	576.95 units	115.39	98.8 %Rec
SEQ-CAL4	1	20.00 ng/L	2341.98 units	117.10	2338.43 units	116.92	100.1 %Rec
SEQ-CAL5	1	40.00 ng/L	4556.24 units	113.91	4552.70 units	113.82	97.4 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						
Corr. Mean RF		Corr. St Dev RF	Corr. RSD CF	Uncorr. Mean RF			
116.83		+/- 3.16	2.7% RSD	119.15			

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	3	3.54 units	±1.96	0.03 ng/L	±0.02

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	2.466 ng/L	±0.880
BLK	2	3	2.041 ng/L	±0.968
BLK	3	0	0.000 ng/L	
BLK	4	0	0.000 ng/L	
BLK	5	0	0.000 ng/L	
BLK	6	0	0.000 ng/L	

QUALITY ASSURANCE
 PEER - REVIEWED
 INITIALS: DMW 9-8-16

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-3	DM2	CAL	SEQ-IBL1	1	9/6/2016 6:13:38	49682-1.RAW	6:13:38 AM	5.65			2.1	0.018	0.018	ng/L	
Hg2600-3	DM2	CAL	SEQ-IBL2	1	9/6/2016 6:17:47	49683-1.RAW	6:17:47 AM	3.20			-0.3	-0.003	-0.003	ng/L	
Hg2600-3	DM2	CAL	SEQ-IBL3	1	9/6/2016 6:21:55	49684-1.RAW	6:21:55 AM	1.77			-1.8	-0.015	-0.015	ng/L	
Hg2600-3	DM2	CAL	SEQ-CAL1	1	9/6/2016 6:26:04	49685-1.RAW	6:26:04 AM	64.60			61.1	0.523	0.523	ng/L	
Hg2600-3	DM2	CAL	SEQ-CAL2	1	9/6/2016 6:30:12	49686-1.RAW	6:30:12 AM	119.45			115.9	0.992	0.992	ng/L	
Hg2600-3	DM2	CAL	SEQ-CAL3	1	9/6/2016 6:34:20	49687-1.RAW	6:34:20 AM	580.49			576.9	4.938	4.938	ng/L	
Hg2600-3	DM2	CAL	SEQ-CAL4	1	9/6/2016 6:38:29	49688-1.RAW	6:38:29 AM	2341.98			2338.4	20.015	20.015	ng/L	
Hg2600-3	DM2	CAL	SEQ-CAL5	1	9/6/2016 6:42:37	49689-1.RAW	6:42:37 AM	4556.24			4552.7	38.968	38.968	ng/L	
Hg2600-3	DM2	CAL	SEQ-ICV1	1	9/6/2016 6:46:46	49690-1.RAW	6:46:46 AM	641.98			638.4	5.465	5.465	ng/L	
Hg2600-3	DM2	BLK	F608517-BLK1	20	9/6/2016 6:53:17	49691-1.RAW	6:53:17 AM	21.80	1		18.3	0.156	3.126	ng/L	
Hg2600-3	DM2	BLK	F608517-BLK2	20	9/6/2016 6:57:25	49692-1.RAW	6:57:25 AM	19.93	1		16.4	0.140	2.805	ng/L	
Hg2600-3	DM2	BLK	F608517-BLK3	20	9/6/2016 7:01:34	49693-1.RAW	7:01:34 AM	12.11	1		8.6	0.073	1.467	ng/L	
Hg2600-3	DM2	SAM	F608517-BS1	500	9/6/2016 7:05:42	49694-1.RAW	7:05:42 AM	1107.21	1		1103.7	9.442	4720.848	ng/L	
Hg2600-3	DM2	SAM	F608517-BSD1	500	9/6/2016 7:09:50	49695-1.RAW	7:09:50 AM	1113.30	1		1109.8	9.494	4746.895	ng/L	
Hg2600-3	DM2	SAM	1607418-02	100	9/6/2016 7:13:59	49696-1.RAW	7:13:59 AM	13.44	1		9.9	0.060	6.008	ng/L	
Hg2600-3	DM2	SAM	1607418-03	100	9/6/2016 7:18:07	49697-1.RAW	7:18:07 AM	10.76	1		7.2	0.037	3.713	ng/L	
Hg2600-3	DM2	SAM	1607903-01	100	9/6/2016 7:22:16	49698-1.RAW	7:22:16 AM	395.01	1		391.5	3.326	332.599	ng/L	
Hg2600-3	DM2	SAM	1607903-02	100	9/6/2016 7:26:24	49699-1.RAW	7:26:24 AM	438.86	1		435.3	3.701	370.132	ng/L	
Hg2600-3	DM2	SAM	1607903-03	100	9/6/2016 7:30:32	49700-1.RAW	7:30:32 AM	241.17	1		237.6	2.009	200.924	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV1	1	9/6/2016 7:34:41	49701-1.RAW	7:34:41 AM	637.72			634.2	5.428	5.428	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB1	1	9/6/2016 7:38:49	49702-1.RAW	7:38:49 AM	10.63			7.1	0.061	0.061	ng/L	
Hg2600-3	DM2	SAM	1607903-04	100	9/6/2016 7:42:58	49703-1.RAW	7:42:58 AM	5389.13	1		5385.6	46.072	4607.199	ng/L	
Hg2600-3	DM2	SAM	1607903-05	100	9/6/2016 7:47:06	49704-1.RAW	7:47:06 AM	3886.83	1		3883.3	33.213	3321.345	ng/L	
Hg2600-3	DM2	SAM	1607903-06	100	9/6/2016 7:51:15	49705-1.RAW	7:51:15 AM	5447.42	1		5443.9	46.571	4657.095	ng/L	
Hg2600-3	DM2	SAM	1607903-07	100	9/6/2016 7:55:23	49706-1.RAW	7:55:23 AM	3650.80	1		3647.3	31.193	3119.321	ng/L	
Hg2600-3	DM2	SAM	1607903-08	100	9/6/2016 7:59:31	49707-1.RAW	7:59:31 AM	4807.37	1		4803.8	41.093	4109.255	ng/L	
Hg2600-3	DM2	SAM	1607903-09	100	9/6/2016 8:03:40	49708-1.RAW	8:03:40 AM	3775.00	1		3771.5	32.256	3225.622	ng/L	
Hg2600-3	DM2	SAM	1607903-10	100	9/6/2016 8:07:48	49709-1.RAW	8:07:48 AM	3034.21	1		3030.7	25.916	2591.562	ng/L	
Hg2600-3	DM2	SAM	1607903-11	100	9/6/2016 8:11:57	49710-1.RAW	8:11:57 AM	4527.00	1		4523.5	38.693	3869.282	ng/L	
Hg2600-3	DM2	SAM	1607903-12	100	9/6/2016 8:16:05	49711-1.RAW	8:16:05 AM	4260.79	1		4257.3	36.414	3641.425	ng/L	
Hg2600-3	DM2	SAM	1607903-13	100	9/6/2016 8:20:13	49712-1.RAW	8:20:13 AM	3026.13	1		3022.6	25.846	2584.647	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV2	1	9/6/2016 8:24:22	49713-1.RAW	8:24:22 AM	633.28			629.7	5.390	5.390	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB2	1	9/6/2016 8:28:30	49714-1.RAW	8:28:30 AM	12.92			9.4	0.080	0.080	ng/L	
Hg2600-3	DM2	SAM	1607903-14	500	9/6/2016 8:35:22	49715-1.RAW	8:35:22 AM	907.30	1		903.8	7.731	3865.274	ng/L	
Hg2600-3	DM2	SAM	1607903-15	500	9/6/2016 8:39:30	49716-1.RAW	8:39:30 AM	958.10	1		954.6	8.165	4082.683	ng/L	
Hg2600-3	DM2	SAM	1607903-16	500	9/6/2016 8:43:38	49717-1.RAW	8:43:38 AM	422.79	1		419.2	3.584	1791.764	ng/L	
Hg2600-3	DM2	SAM	1607903-17	500	9/6/2016 8:47:47	49718-1.RAW	8:47:47 AM	769.75	1		766.2	6.553	3276.613	ng/L	
Hg2600-3	DM2	SAM	1607903-18	500	9/6/2016 8:51:55	49719-1.RAW	8:51:55 AM	320.62	1		317.1	2.709	1354.504	ng/L	
Hg2600-3	DM2	SAM	1607418-02RE1	20	9/6/2016 8:56:04	49720-1.RAW	8:56:04 AM	39.96	1		36.4	0.188	3.768	ng/L	
Hg2600-3	DM2	SAM	1607418-03RE1	20	9/6/2016 9:00:12	49721-1.RAW	9:00:12 AM	33.70	1		30.2	0.135	2.697	ng/L	
Hg2600-3	DM2	SAM	1607903-04RE1	500	9/6/2016 9:04:21	49722-1.RAW	9:04:21 AM	1064.16	1		1060.6	9.073	4536.599	ng/L	
Hg2600-3	DM2	SAM	1607903-05RE1	100	9/6/2016 9:08:29	49723-1.RAW	9:08:29 AM	3877.98	1		3874.4	33.138	3313.772	ng/L	
Hg2600-3	DM2	SAM	1607903-06RE1	500	9/6/2016 9:12:38	49724-1.RAW	9:12:38 AM	1087.83	1		1084.3	9.276	4637.878	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV3	1	9/6/2016 9:16:46	49725-1.RAW	9:16:46 AM	624.10			620.6	5.312	5.312	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB3	1	9/6/2016 9:20:54	49726-1.RAW	9:20:54 AM	12.88			9.3	0.080	0.080	ng/L	
Hg2600-3	DM2	SAM	1607903-07RE1	100	9/6/2016 9:25:03	49727-1.RAW	9:25:03 AM	3628.45	1		3624.9	31.002	3100.189	ng/L	
Hg2600-3	DM2	SAM	1607903-08RE1	500	9/6/2016 9:29:11	49728-1.RAW	9:29:11 AM	950.28	1		946.7	8.098	4049.211	ng/L	
Hg2600-3	DM2	SAM	1607903-09RE1	100	9/6/2016 9:33:20	49729-1.RAW	9:33:20 AM	3753.98	1		3750.4	32.076	3207.636	ng/L	
Hg2600-3	DM2	SAM	F608517-DUP1	100	9/6/2016 9:37:28	49730-1.RAW	9:37:28 AM	3387.57	1		3384.0	28.940	2894.013	ng/L	
Hg2600-3	DM2	SAM	F608517-MS1	500	9/6/2016 9:41:36	49731-1.RAW	9:41:36 AM	1789.19	1		1785.7	15.279	7639.460	ng/L	
Hg2600-3	DM2	SAM	F608517-MSD1	500	9/6/2016 9:45:45	49732-1.RAW	9:45:45 AM	1748.80	1		1745.3	14.933	7466.610	ng/L	
Hg2600-3	DM2	SAM	F608517-MS2	500	9/6/2016 9:49:53	49733-1.RAW	9:49:53 AM	1237.36	1		1233.8	10.556	5277.835	ng/L	
Hg2600-3	DM2	SAM	F608517-MSD2	500	9/6/2016 9:54:02	49734-1.RAW	9:54:02 AM	1238.84	1		1235.3	10.568	5284.149	ng/L	
Hg2600-3	DM2	BLK	F609214-BLK1	20	9/6/2016 9:58:10	49735-1.RAW	9:58:10 AM	13.87	2		10.3	0.088	1.768	ng/L	
Hg2600-3	DM2	BLK	F609214-BLK2	20	9/6/2016 10:02:19	49736-1.RAW	10:02:19 AM	10.77	2		7.2	0.062	1.238	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV4	1	9/6/2016 10:06:27	49737-1.RAW	10:06:27 AM	622.24			618.7	5.296	5.296	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB4	1	9/6/2016 10:10:35	49738-1.RAW	10:10:35 AM	11.42			7.9	0.067	0.067	ng/L	

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber												
Hg2600-3	DM2	BLK	F609214-BLK3	20	9/6/2016 10:14:44	49739-1.RAW	10:14:44 AM	21.74	2		18.2	0.156	3.116	ng/L	
Hg2600-3	DM2	SAM	F609214-BS1	20	9/6/2016 10:18:52	49740-1.RAW	10:18:52 AM	601.89	2		598.4	5.019	100.388	ng/L	
Hg2600-3	DM2	SAM	F609214-BSD1	20	9/6/2016 10:23:01	49741-1.RAW	10:23:01 AM	625.65	2		622.1	5.223	104.456	ng/L	
Hg2600-3	DM2	SAM	1607903-19	500	9/6/2016 10:27:09	49742-1.RAW	10:27:09 AM	222.31	2		218.8	1.868	934.195	ng/L	
Hg2600-3	DM2	SAM	1607903-29	500	9/6/2016 10:31:17	49743-1.RAW	10:31:17 AM	56.16	2		52.6	0.446	223.135	ng/L	
Hg2600-3	DM2	SAM	1607903-30	500	9/6/2016 10:35:26	49744-1.RAW	10:35:26 AM	98.85	2		95.3	0.812	405.847	ng/L	
Hg2600-3	DM2	SAM	1607903-31	500	9/6/2016 10:39:34	49745-1.RAW	10:39:34 AM	43.06	2		39.5	0.334	167.067	ng/L	
Hg2600-3	DM2	SAM	1607903-32	500	9/6/2016 10:43:43	49746-1.RAW	10:43:43 AM	157.00	2		153.5	1.309	654.729	ng/L	
Hg2600-3	DM2	SAM	1607903-33	500	9/6/2016 10:47:51	49747-1.RAW	10:47:51 AM	300.65	2		297.1	2.539	1269.470	ng/L	
Hg2600-3	DM2	SAM	1607903-34	500	9/6/2016 10:52:00	49748-1.RAW	10:52:00 AM	832.33	2		828.8	7.090	3544.879	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV5	1	9/6/2016 10:58:08	49749-1.RAW	10:58:08 AM	624.0119123			620.5	5.311	5.311	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB5	1	9/6/2016 11:00:16	49750-1.RAW	11:00:16 AM	7.29			3.8	0.032	0.032	ng/L	
Hg2600-3	DM2	SAM	1607903-35	500	9/6/2016 11:04:25	49751-1.RAW	11:04:25 AM	617.14	2		613.6	5.248	2623.935	ng/L	
Hg2600-3	DM2	SAM	1607903-36	500	9/6/2016 11:08:33	49752-1.RAW	11:08:33 AM	257.21	2		253.7	2.167	1083.554	ng/L	
Hg2600-3	DM2	SAM	1607903-37	500	9/6/2016 11:12:42	49753-1.RAW	11:12:42 AM	16.42	2		12.9	0.106	53.089	ng/L	
Hg2600-3	DM2	SAM	1607903-38	500	9/6/2016 11:16:50	49754-1.RAW	11:16:50 AM	46.98	2		43.4	0.368	183.861	ng/L	
Hg2600-3	DM2	SAM	1607903-39	500	9/6/2016 11:20:58	49755-1.RAW	11:20:58 AM	587.10	2		583.6	4.991	2495.363	ng/L	
Hg2600-3	DM2	SAM	1607903-43	500	9/6/2016 11:25:07	49756-1.RAW	11:25:07 AM	672.68	2		669.1	5.723	2861.621	ng/L	
Hg2600-3	DM2	SAM	1607903-44	500	9/6/2016 11:29:15	49757-1.RAW	11:29:15 AM	655.28	2		651.7	5.574	2787.183	ng/L	
Hg2600-3	DM2	SAM	1608071-01	500	9/6/2016 11:33:24	49758-1.RAW	11:33:24 AM	8.29	2		4.7	0.037	18.268	ng/L	
Hg2600-3	DM2	SAM	1608071-02	500	9/6/2016 11:37:32	49759-1.RAW	11:37:32 AM	1127.88	2		1124.3	9.619	4809.724	ng/L	
Hg2600-3	DM2	SAM	1608071-03	500	9/6/2016 11:41:41	49760-1.RAW	11:41:41 AM	611.32	2		607.8	5.198	2599.016	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV6	1	9/6/2016 11:45:49	49761-1.RAW	11:45:49 AM	622.84			619.3	5.301	5.301	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB6	1	9/6/2016 11:49:57	49762-1.RAW	11:49:57 AM	9.05			5.5	0.047	0.047	ng/L	
Hg2600-3	DM2	SAM	1608071-04	500	9/6/2016 11:54:06	49763-1.RAW	11:54:06 AM	896.90	2		893.4	7.642	3821.219	ng/L	
Hg2600-3	DM2	SAM	1608321-01	500	9/6/2016 11:58:14	49764-1.RAW	11:58:14 AM	12.32	2		8.8	0.071	35.548	ng/L	
Hg2600-3	DM2	SAM	1608321-02	500	9/6/2016 12:02:23	49765-1.RAW	12:02:23 PM	6.16	2		2.6	0.018	9.149	ng/L	
Hg2600-3	DM2	SAM	1607903-29RE1	20	9/6/2016 12:06:31	49766-1.RAW	12:06:31 PM	1340.88	2		1337.3	11.345	226.893	ng/L	
Hg2600-3	DM2	SAM	1607903-30RE1	100	9/6/2016 12:10:39	49767-1.RAW	12:10:39 PM	489.71	2		486.2	4.141	414.088	ng/L	
Hg2600-3	DM2	SAM	1607903-31RE1	20	9/6/2016 12:14:48	49768-1.RAW	12:14:48 PM	920.02	2		916.5	7.742	154.848	ng/L	
Hg2600-3	DM2	SAM	1607903-37RE1	20	9/6/2016 12:18:56	49769-1.RAW	12:18:56 PM	238.75	2		235.2	1.911	38.223	ng/L	
Hg2600-3	DM2	SAM	1607903-38RE1	20	9/6/2016 12:23:05	49770-1.RAW	12:23:05 PM	1023.20	2		1019.7	8.626	172.511	ng/L	
Hg2600-3	DM2	SAM	F609214-DUP1	500	9/6/2016 12:27:13	49771-1.RAW	12:27:13 PM	639.56	2		636.0	5.440	2719.886	ng/L	
Hg2600-3	DM2	SAM	F609214-MS1	500	9/6/2016 12:31:22	49772-1.RAW	12:31:22 PM	1838.78	2		1835.2	15.704	7852.124	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV7	1	9/6/2016 12:35:30	49773-1.RAW	12:35:30 PM	676.88			673.3	5.763	5.763	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB7	1	9/6/2016 12:39:38	49774-1.RAW	12:39:38 PM	9.71			6.2	0.053	0.053	ng/L	
Hg2600-3	DM2	SAM	F609214-MSD1	500	9/6/2016 12:43:47	49775-1.RAW	12:43:47 PM	1744.80	2		1741.3	14.900	7449.904	ng/L	
Hg2600-3	DM2	SAM	F609214-MS2	500	9/6/2016 12:47:55	49776-1.RAW	12:47:55 PM	1494.21	2		1490.7	12.755	6377.453	ng/L	
Hg2600-3	DM2	SAM	F609214-MSD2	500	9/6/2016 12:52:04	49777-1.RAW	12:52:04 PM	1511.06	2		1507.5	12.899	6449.572	ng/L	
Hg2600-3	DM2	SAM	1608071-01RE1	20	9/6/2016 12:56:12	49778-1.RAW	12:56:12 PM	8235.34	2		8231.8	70.356	1407.122	ng/L	
Hg2600-3	DM2	SAM	1608321-01RE1	20	9/6/2016 13:00:21	49779-1.RAW	1:00:21 PM	59.22	2		55.7	0.375	7.490	ng/L	
Hg2600-3	DM2	SAM	1608321-02RE1	20	9/6/2016 13:04:29	49780-1.RAW	1:04:29 PM	32.25	2		28.7	0.144	2.875	ng/L	
Hg2600-3	DM2	SAM	EFGS06369 2000NG	2500	9/6/2016 13:08:37	49781-1.RAW	1:08:37 PM	2497.37	x		2493.8	21.345	53363.332	ng/L	
Hg2600-3	DM2	SAM	EFGS06911 2000NG	2500	9/6/2016 13:12:46	49782-1.RAW	1:12:46 PM	2490.47	x		2486.9	21.286	53215.703	ng/L	
Hg2600-3	DM2	SAM	EFGS03039 5000NG	5000	9/6/2016 13:16:54	49783-1.RAW	1:16:54 PM	3101.03	x		3097.5	26.512	132561.191	ng/L	
Hg2600-3	DM2	SAM	EFGS03178 5000NG	5000	9/6/2016 13:21:03	49784-1.RAW	1:21:03 PM	3130.67	x		3127.1	26.766	133829.549	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV8	1	9/6/2016 13:25:11	49785-1.RAW	1:25:11 PM	724.65			721.1	6.172	6.172	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB8	1	9/6/2016 13:29:19	49786-1.RAW	1:29:19 PM	13.41			9.9	0.085	0.085	ng/L	
Hg2600-3	DM2	SAM	1608071-01RE2	100	9/6/2016 13:33:28	49787-1.RAW	1:33:28 PM	1658.63	2		1655.1	14.146	1414.595	ng/L	
Hg2600-3	DM2	SAM	1608321-01RE2	20	9/6/2016 13:37:36	49788-1.RAW	1:37:36 PM	58.71	2		55.2	0.370	7.403	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCV9	1	9/6/2016 13:41:45	49789-1.RAW	1:41:45 PM	708.42			704.9	6.033	6.033	ng/L	
Hg2600-3	DM2	CAL	SEQ-CCB9	1	9/6/2016 13:45:54	49790-1.RAW	1:45:54 PM	16.61			13.1	0.112	0.112	ng/L	

TotalMercury
EPA1631

Operat: DM Blanks: 3.5409 Calib Eqn: Conc = (Area-3.540 Run Date: 9/6/2016 Blank SD: 1.960801025
 Worksh: THg260(CalibFa: 116.83 Status: QC Warnings:3/QC F Run Time: 8:31:13 Blank RSD%: 55.37568672
 Method ##### R: 0.9999 R²: 0.9998 CF SD: 3.162021418
 Descrip THg26003-160906-1 CF RSD%: 2.70645657

Sample/ID	Location	Rinse	Dilute	Blank	Conc (ppt)	MB%	FinalConc	Rec%	QA	RawData	RunEnd	Peak (Raw)	Control (etf)	Flags	RunCount
Clean				0.00	1.92					49677-1.RAW	5:54:13	224.67	Clean	OK	1
clean										49678-1.RAW	5:57:05	0.00	Clean	NP	1
ws				3.54	0.00					49679-1.RAW	6:01:13	1.32	Sample	OK	1
ws				3.54	0.00					49680-1.RAW	6:05:21	1.57	Sample	OK	1
ws										49681-1.RAW	6:09:30	0.00	Sample	NP	1
SEQ-IBL1	A1		1	0.00	0.05					49682-1.RAW	6:13:38	5.65	Sample	OK	1
SEQ-IBL2	A2		1	0.00	0.03					49683-1.RAW	6:17:47	3.20	Sample	OK	1
SEQ-IBL3	A3		1	0.00	0.02					49684-1.RAW	6:21:55	1.77	Sample	OK	1
SEQ-CAL1	A4		1	3.54	0.52			104.53		49685-1.RAW	6:26:04	64.60	Sample	OK	1
SEQ-CAL2	A5		1	3.54	0.99			99.21		49686-1.RAW	6:30:12	119.45	Sample	OK	1
SEQ-CAL3	A6		1	3.54	4.94			98.76		49687-1.RAW	6:34:20	580.49	Sample	OK	1
SEQ-CAL4	A7		1	3.54	20.02			100.08		49688-1.RAW	6:38:29	2341.98	Sample	OK	1
SEQ-CAL5	A8		1	3.54	38.97			97.42		49689-1.RAW	6:42:37	4556.24	Sample	OK	1
SEQ-ICV1	A9		1	3.54	5.46			109.29		49690-1.RAW	6:46:46	641.98	Sample	OK	1
F608517-BLK1	A10		20	3.54	3.13					49691-1.RAW	6:53:17	21.80	Sample	OK	1
F608517-BLK2	A11		20	3.54	2.80					49692-1.RAW	6:57:25	19.93	Sample	OK	1
F608517-BLK3	A12		20	3.54	1.47					49693-1.RAW	7:01:34	12.11	Sample	OK	1
F608517-BS1	B1		500	3.54	4723.31					49694-1.RAW	7:05:42	1107.21	Sample	OK	1
F608517-BSD1	B2		500	3.54	4749.36					49695-1.RAW	7:09:50	1113.30	Sample	OK	1
1607418-02	B3		100	3.54	8.47					49696-1.RAW	7:13:59	13.44	Sample	OK	1
1607418-03	B4		100	3.54	6.18					49697-1.RAW	7:18:07	10.76	Sample	OK	1
1607903-01	B5		100	3.54	335.07					49698-1.RAW	7:22:16	395.01	Sample	OK	1
1607903-02	B6		100	3.54	372.60					49699-1.RAW	7:26:24	438.86	Sample	OK	1
1607903-03	B7		100	3.54	203.39					49700-1.RAW	7:30:32	241.17	Sample	OK	1
SEQ-CCV1	B8		1	3.54	5.43			108.56		49701-1.RAW	7:34:41	637.72	Sample	OK	1
SEQ-CCB1	B9		1	3.54	0.06			0.00		49702-1.RAW	7:38:49	10.63	Sample	OK	1
1607903-04	B10		100	3.54	4609.66					49703-1.RAW	7:42:58	5389.13	Sample	OK	1
1607903-05	B11		100	3.54	3323.81					49704-1.RAW	7:47:06	3886.83	Sample	FB	1
1607903-06	B12		100	3.54	4659.56					49705-1.RAW	7:51:15	5447.42	Sample	OK	1
1607903-07	C1		100	3.54	3121.79					49706-1.RAW	7:55:23	3650.80	Sample	FB	1
1607903-08	C2		100	3.54	4111.72					49707-1.RAW	7:59:31	4807.37	Sample	OK	1
1607903-09	C3		100	3.54	3228.09					49708-1.RAW	8:03:40	3775.00	Sample	OK	1
1607903-10	C4		100	3.54	2594.03					49709-1.RAW	8:07:48	3034.21	Sample	OK	1
1607903-11	C5		100	3.54	3871.75					49710-1.RAW	8:11:57	4527.00	Sample	OK	1
1607903-12	C6		100	3.54	3643.89					49711-1.RAW	8:16:05	4260.79	Sample	FB	1
1607903-13	C7		100	3.54	2587.11					49712-1.RAW	8:20:13	3026.13	Sample	OK	1
SEQ-CCV2	C8		1	3.54	5.39			107.80		49713-1.RAW	8:24:22	633.28	Sample	OK	1
SEQ-CCB2	C9		1	3.54	0.08			0.00		49714-1.RAW	8:28:30	12.92	Sample	OK	1
1607903-14	C10		500	3.54	3867.74					49715-1.RAW	8:35:22	907.30	Sample	OK	1
1607903-15	C11		500	3.54	4085.15					49716-1.RAW	8:39:30	958.10	Sample	OK	1
1607903-16	C12		500	3.54	1794.23					49717-1.RAW	8:43:38	422.79	Sample	OK	1
1607903-17	D1		500	3.54	3279.08					49718-1.RAW	8:47:47	769.75	Sample	OK	1
1607903-18	D2		500	3.54	1356.97					49719-1.RAW	8:51:55	320.62	Sample	OK	1
1607418-02RE1	D3		20	3.54	6.23					49720-1.RAW	8:56:04	39.96	Sample	OK	1
1607418-03RE1	D4		20	3.54	5.16					49721-1.RAW	9:00:12	33.70	Sample	OK	1
1607903-04RE1	D5		500	3.54	4539.06					49722-1.RAW	9:04:21	1064.16	Sample	OK	1

1607903-05RE1	D6	100	3.54	3316.24		49723-1.RAW	9:08:29	3877.98	Sample	OK	1
1607903-06RE1	D7	500	3.54	4640.34		49724-1.RAW	9:12:38	1087.83	Sample	OK	1
SEQ-CCV3	D8	1	3.54	5.31	106.23	49725-1.RAW	9:16:46	624.10	Sample	OK	1
SEQ-CCB3	D9	1	3.54	0.08	0.00	49726-1.RAW	9:20:54	12.88	Sample	OK	1
1607903-07RE1	D10	100	3.54	3102.65		49727-1.RAW	9:25:03	3628.45	Sample	OK	1
1607903-08RE1	D11	500	3.54	4051.68		49728-1.RAW	9:29:11	950.28	Sample	OK	1
1607903-09RE1	D12	100	3.54	3210.10		49729-1.RAW	9:33:20	3753.98	Sample	FB	1
F608517-DUP1	A1	100	3.54	2896.48		49730-1.RAW	9:37:28	3387.57	Sample	FB	1
F608517-MS1	A2	500	3.54	7641.93	263.74	49731-1.RAW	9:41:36	1789.19	Sample	OK	1
F608517-MSD1	A3	500	3.54	7469.08		49732-1.RAW	9:45:45	1748.80	Sample	OK	1
F608517-MS2	A4	500	3.54	5280.30	70.68	49733-1.RAW	9:49:53	1237.36	Sample	OK	1
F608517-MSD2	A5	500	3.54	5286.62		49734-1.RAW	9:54:02	1238.84	Sample	OK	1
F609214-BLK1	A6	20	3.54	1.77		49735-1.RAW	9:58:10	13.87	Sample	OK	1
F609214-BLK2	A7	20	3.54	1.24		49736-1.RAW	10:02:19	10.77	Sample	OK	1
SEQ-CCV4	A8	1	3.54	5.30	105.91	49737-1.RAW	10:06:27	622.24	Sample	OK	1
SEQ-CCB4	A9	1	3.54	0.07	0.00	49738-1.RAW	10:10:35	11.42	Sample	OK	1
F609214-BLK3	A10	20	3.54	3.12		49739-1.RAW	10:14:44	21.74	Sample	OK	1
F609214-BS1	A11	20	3.54	102.43		49740-1.RAW	10:18:52	601.89	Sample	OK	1
F609214-BSD1	A12	20	3.54	106.50		49741-1.RAW	10:23:01	625.65	Sample	OK	1
1607903-19	B1	500	3.54	936.24		49742-1.RAW	10:27:09	222.31	Sample	OK	1
1607903-29	B2	500	3.54	225.18		49743-1.RAW	10:31:17	56.16	Sample	OK	1
1607903-30	B3	500	3.54	407.89		49744-1.RAW	10:35:26	98.85	Sample	OK	1
1607903-31	B4	500	3.54	169.11		49745-1.RAW	10:39:34	43.06	Sample	OK	1
1607903-32	B5	500	3.54	656.77		49746-1.RAW	10:43:43	157.00	Sample	OK	1
1607903-33	B6	500	3.54	1271.51		49747-1.RAW	10:47:51	300.65	Sample	OK	1
1607903-34	B7	500	3.54	3546.92		49748-1.RAW	10:52:00	832.33	Sample	OK	1
SEQ-CCV5	B8	1	3.54	5.31	106.22	49749-1.RAW	10:56:08	624.01	Sample	OK	1
SEQ-CCB5	B9	1	3.54	0.03	0.00	49750-1.RAW	11:00:16	7.29	Sample	OK	1
1607903-35	B10	500	3.54	2625.98		49751-1.RAW	11:04:25	617.14	Sample	OK	1
1607903-36	B11	500	3.54	1085.59		49752-1.RAW	11:08:33	257.21	Sample	OK	1
1607903-37	B12	500	3.54	55.13		49753-1.RAW	11:12:42	16.42	Sample	OK	1
1607903-38	C1	500	3.54	185.90		49754-1.RAW	11:16:50	46.98	Sample	OK	1
1607903-39	C2	500	3.54	2497.40		49755-1.RAW	11:20:58	587.10	Sample	OK	1
1607903-43	C3	500	3.54	2863.66		49756-1.RAW	11:25:07	672.68	Sample	OK	1
1607903-44	C4	500	3.54	2789.22		49757-1.RAW	11:29:15	655.28	Sample	OK	1
1608071-01	C5	500	3.54	20.31		49758-1.RAW	11:33:24	8.29	Sample	OK	1
1608071-02	C6	500	3.54	4811.76		49759-1.RAW	11:37:32	1127.88	Sample	OK	1
1608071-03	C7	500	3.54	2601.06		49760-1.RAW	11:41:41	611.32	Sample	OK	1
SEQ-CCV6	C8	1	3.54	5.30	106.02	49761-1.RAW	11:45:49	622.84	Sample	OK	1
SEQ-CCB6	C9	1	3.54	0.05	0.00	49762-1.RAW	11:49:57	9.05	Sample	OK	1
1608071-04	C10	500	3.54	3823.26		49763-1.RAW	11:54:06	896.90	Sample	OK	1
1608321-01	C11	500	3.54	37.59		49764-1.RAW	11:58:14	12.32	Sample	OK	1
1608321-02	C12	500	3.54	11.19		49765-1.RAW	12:02:23	6.16	Sample	OK	1
1607903-29RE1	D1	20	3.54	228.93		49766-1.RAW	12:06:31	1340.88	Sample	OK	1
1607903-30RE1	D2	100	3.54	416.13		49767-1.RAW	12:10:39	489.71	Sample	OK	1
1607903-31RE1	D3	20	3.54	156.89		49768-1.RAW	12:14:48	920.02	Sample	OK	1
1607903-37RE1	D4	20	3.54	40.26		49769-1.RAW	12:18:56	238.75	Sample	OK	1
1607903-38RE1	D5	20	3.54	174.55		49770-1.RAW	12:23:05	1023.20	Sample	OK	1
F609214-DUP1	D6	500	3.54	2721.93		49771-1.RAW	12:27:13	639.56	Sample	OK	1
F609214-MS1	D7	500	3.54	7854.16	288.45	49772-1.RAW	12:31:22	1838.78	Sample	OK	1
SEQ-CCV7	D8	1	3.54	5.76	115.27	49773-1.RAW	12:35:30	676.88	Sample	OK	1

SEQ-CCB7	D9	1	3.54	0.05	0.00	49774-1.RAW	12:39:38	9.71	Sample	OK	1
F609214-MSD1	D10	500	3.54	7451.94		49775-1.RAW	12:43:47	1744.80	Sample	OK	1
F609214-MS2	D11	500	3.54	6379.49	85.59	49776-1.RAW	12:47:55	1494.21	Sample	OK	1
F609214-MSD2	D12	500	3.54	6451.61		49777-1.RAW	12:52:04	1511.06	Sample	OK	1
1608071-01RE1	A1	20	3.54	1409.16		49778-1.RAW	12:56:12	8235.34	Sample	FB	1
1608321-01RE1	A2	20	3.54	9.53		49779-1.RAW	13:00:21	59.22	Sample	OK	1
1608321-02RE1	A3	20	3.54	4.92		49780-1.RAW	13:04:29	32.25	Sample	OK	1
EFGS06369 2000NG	A4	2500	3.54	53363.33		49781-1.RAW	13:08:37	2497.37	Sample	OK	1
EFGS06911 2000NG	A5	2500	3.54	53215.70		49782-1.RAW	13:12:46	2490.47	Sample	OK	1
EFGS03039 5000NG	A6	5000	3.54	132561.19		49783-1.RAW	13:16:54	3101.03	Sample	OK	1
EFGS03178 5000NG	A7	5000	3.54	133829.55		49784-1.RAW	13:21:03	3130.67	Sample	OK	1
SEQ-CCV8	A8	1	3.54	6.17	123.44	49785-1.RAW	13:25:11	724.65	Sample	OK	1
SEQ-CCB8	A9	1	3.54	0.08	0.00	49786-1.RAW	13:29:19	13.41	Sample	OK	1
1608071-01RE2	A10	100	3.54	1416.64		49787-1.RAW	13:33:28	1658.63	Sample	OK	1
1608321-01RE2	A11	20	3.54	9.44		49788-1.RAW	13:37:36	58.71	Sample	OK	1
SEQ-CCV9	C1	1	3.54	6.03	120.67	49789-1.RAW	13:41:45	708.42	Sample	OK	1
SEQ-CCB9	C2	1	3.54	0.11	0.00	49790-1.RAW	13:45:54	16.61	Sample	OK	1

Failing Data Report - 6I07006

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
1607903-04	Hg-CVAFS-S-AR	1440	19.5				ng/g						FAIL-OVER	PASS	F
1607903-06	Hg-CVAFS-S-AR	852	11.4				ng/g						FAIL-OVER	PASS	F
1607903-08	Hg-CVAFS-S-AR	976	14.9				ng/g						FAIL-OVER	PASS	F
1608071-01RE1	Hg-CVAFS-S-AR	295	2.62				ng/g						FAIL-OVER	PASS	F

Don M. Starn
Analyst Reviewed By

9/7/16
Date

P
Peer Reviewed By

9-8-16
Date

ANALYSIS SEQUENCE

6I07006

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 9/6/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6I07006-IBL1	QC	1			
6I07006-IBL2	QC	2			
6I07006-IBL3	QC	3			
6I07006-CAL1	QC	4	1603274		
6I07006-CAL2	QC	5	1603275		
6I07006-CAL3	QC	6	1603276		
6I07006-CAL4	QC	7	1603277		
6I07006-CAL5	QC	8	1603278		
6I07006-ICV1	QC	9	1603625		
F608517-BLK1	QC	10			
F608517-BLK2	QC	11			
F608517-BLK3	QC	12			
F608517-BS1	QC	13			
F608517-BSD1	QC	14			
1607418-02	Hg-CVAFS-S-AR	15			Scan all data for level IV report
1607418-03	Hg-CVAFS-S-AR	16			Scan all data for level IV report
1607903-01	Hg-CVAFS-S-AR	17			
1607903-02	Hg-CVAFS-S-AR	18			
1607903-03	Hg-CVAFS-S-AR	19			
6I07006-CCV1	QC	20	1603625		
6I07006-CCB1	QC	21			
1607903-04	Hg-CVAFS-S-AR	22			
1607903-05	Hg-CVAFS-S-AR	23			
1607903-06	Hg-CVAFS-S-AR	24			
1607903-07	Hg-CVAFS-S-AR	25			
1607903-08	Hg-CVAFS-S-AR	26			
1607903-09	Hg-CVAFS-S-AR	27			
1607903-10	Hg-CVAFS-S-AR	28			
1607903-11	Hg-CVAFS-S-AR	29			
1607903-12	Hg-CVAFS-S-AR	30			
1607903-13	Hg-CVAFS-S-AR	31			
6I07006-CCV2	QC	32	1603625		
6I07006-CCB2	QC	33			
1607903-14	Hg-CVAFS-S-AR	34			
1607903-15	Hg-CVAFS-S-AR	35			

Due Date: 9/8/2016

ANALYSIS SEQUENCE

6I07006

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 9/6/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1607903-16	Hg-CVAFS-S-AR	36			
1607903-17	Hg-CVAFS-S-AR	37			
1607903-18	Hg-CVAFS-S-AR	38			
1607418-02RE1	Hg-CVAFS-S-AR	39			Added 9/7/2016 by DM2
1607418-03RE1	Hg-CVAFS-S-AR	40			Added 9/7/2016 by DM2
1607903-04RE1	Hg-CVAFS-S-AR	41			Added 9/7/2016 by DM2
1607903-05RE1	Hg-CVAFS-S-AR	42			Added 9/7/2016 by DM2
1607903-06RE1	Hg-CVAFS-S-AR	43			Added 9/7/2016 by DM2
6I07006-CCV3	QC	44	1603625		
6I07006-CCB3	QC	45			
1607903-07RE1	Hg-CVAFS-S-AR	46			Added 9/7/2016 by DM2
1607903-08RE1	Hg-CVAFS-S-AR	47			Added 9/7/2016 by DM2
1607903-09RE1	Hg-CVAFS-S-AR	48			Added 9/7/2016 by DM2
F608517-DUP1	QC	49			
F608517-MS1	QC	50			
F608517-MSD1	QC	51			
F608517-MS2	QC	52			
F608517-MSD2	QC	53			
F609214-BLK1	QC	54			
F609214-BLK2	QC	55			
6I07006-CCV4	QC	56	1603625		
6I07006-CCB4	QC	57			
F609214-BLK3	QC	58			
F609214-BS1	QC	59			
F609214-BSD1	QC	60			
1607903-19	Hg-CVAFS-S-AR	61			
1607903-29	Hg-CVAFS-S-AR	62			
1607903-30	Hg-CVAFS-S-AR	63			
1607903-31	Hg-CVAFS-S-AR	64			
1607903-32	Hg-CVAFS-S-AR	65			
1607903-33	Hg-CVAFS-S-AR	66			
1607903-34	Hg-CVAFS-S-AR	67			
6I07006-CCV5	QC	68	1603625		
6I07006-CCB5	QC	69			
1607903-35	Hg-CVAFS-S-AR	70			

Due Date: 9/8/2016

ANALYSIS SEQUENCE

6107006

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 9/6/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1607903-36	Hg-CVAFS-S-AR	71			
1607903-37	Hg-CVAFS-S-AR	72			
1607903-38	Hg-CVAFS-S-AR	73			
1607903-39	Hg-CVAFS-S-AR	74			
1607903-43	Hg-CVAFS-S-AR	75			
1607903-44	Hg-CVAFS-S-AR	76			
1608071-01	Hg-CVAFS-S-AR	77			
1608071-02	Hg-CVAFS-S-AR	78			
1608071-03	Hg-CVAFS-S-AR	79			
6107006-CCV6	QC	80	1603625		
6107006-CCB6	QC	81			
1608071-04	Hg-CVAFS-S-AR	82			
1608321-01	Hg-CVAFS-S-AR	83			Scan all data for level IV report
1608321-02	Hg-CVAFS-S-AR	84			Scan all data for level IV report
1607903-29RE1	Hg-CVAFS-S-AR	85			Added 9/7/2016 by DM2
1607903-30RE1	Hg-CVAFS-S-AR	86			Added 9/7/2016 by DM2
1607903-31RE1	Hg-CVAFS-S-AR	87			Added 9/7/2016 by DM2
1607903-37RE1	Hg-CVAFS-S-AR	88			Added 9/7/2016 by DM2
1607903-38RE1	Hg-CVAFS-S-AR	89			Added 9/7/2016 by DM2
F609214-DUP1	QC	90			
F609214-MS1	QC	91			
6107006-CCV7	QC	92	1603625		
6107006-CCB7	QC	93			
F609214-MSD1	QC	94			
F609214-MS2	QC	95			
F609214-MSD2	QC	96			
1608071-01RE1	Hg-CVAFS-S-AR	97			Added 9/7/2016 by DM2
1608321-01RE1	Hg-CVAFS-S-AR	98			Added 9/7/2016 by DM2
1608321-02RE1	Hg-CVAFS-S-AR	99			Added 9/7/2016 by DM2
6107006-CCV8	QC	100	1603625		
6107006-CCB8	QC	101			
1608071-01RE2	Hg-CVAFS-S-AR	102			Added 9/7/2016 by DM2
1608321-01RE2	Hg-CVAFS-S-AR	103			Added 9/7/2016 by DM2
6107006-CCV9	QC	104	1603625		
6107006-CCB9	QC	105			

Due Date: 9/8/2016

ANALYSIS SEQUENCE

6107006

Instrument: Hg2600-3

Calibration ID: UNASSIGNED

Analyzed: 9/6/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
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Dan Mattem 9/6/16
Samples Loaded By Date

Dan Mattem 9/7/16
Data Processed By Date

Due Date: 9/8/2016

PREPARATION BENCH SHEET

F608517

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 8/31/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F608517-BLK1	Blank	0.5	40					
F608517-BLK2	Blank	0.5	40					
F608517-BLK3	Blank	0.5	40					
F608517-BS1	Blank Spike	0.5	40	1603188	200			
F608517-BSD1	Blank Spike Dup	0.5	40	1603188	200			
F608517-DUP1	Duplicate [1607903-10]	0.586	40					
F608517-MS1	Matrix Spike [1607903-10]	0.561	40	1603188	200			
F608517-MS2	Matrix Spike [1607903-18]	0.556	40	1603188	200			
F608517-MSD1	Matrix Spike Dup [1607903-10]	0.572	40	1603188	200			
F608517-MSD2	Matrix Spike Dup [1607903-18]	0.596	40	1603188	200			

Standard ID(s): 1603188
Description: THg 1,000ng/mL Primary Spiking Standard

Expiration: 15-Dec-16 00:00

<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1600451	Boiling Chips for AFS prep	14-Dec-16 00:00
1602941	25% Hydroxylamine-HCl working solution	03-Dec-16 00:00
1603334	Omnitrace Hydrochloric Acid	21-Jun-19 00:00
1603826	THg Dilute 1% BrCl	12-Dec-16 00:00
1603827	THg Washstation (0.5% BrCl)	03-Dec-16 00:00
1604512	Fisher Nitric Acid, Tracemetal Grade	24-Mar-18 00:00
1604980	5% BrCl	11-Jan-17 00:00
1605096	3% SnCl2 THg reductant	22-Feb-17 00:00

PREPARATION BENCH SHEET

F608517

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 8/31/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607418-02	OL-2464-01 - Retest #1	1	40	-	-	-	Prep 1mL Scan all data for level IV repr	
1607418-02RE1	OL-2464-01 - Retest #1	1	40	-	-	-	Prep 1mL Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1607418-03	OL-2464-01 - Retest #2	1	40	-	-	-	Prep 1mL Scan all data for level IV repr	
1607418-03RE1	OL-2464-01 - Retest #2	1	40	-	-	-	Prep 1mL Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1607903-01	OV-04_072216_SED_03	0.539	40	-	-	-		
1607903-02	OV-01_072216_SED_03	0.548	40	-	-	-		
1607903-03	OV-02_072216_SED_03	0.556	40	-	-	-		
1607903-04	BO-05_072016_SED_03	0.532	40	-	-	-		
1607903-04RE1	BO-05_072016_SED_03	0.532	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1607903-05	OB-05_072616_SED_03	0.558	40	-	-	-		
1607903-05RE1	OB-05_072616_SED_03	0.558	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1607903-06	ES-02_072716_SED_03	0.589	40	-	-	-		
1607903-06RE1	ES-02_072716_SED_03	0.589	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1607903-07	ES-13_072716_SED_03	0.595	40	-	-	-		
1607903-07RE1	ES-13_072716_SED_03	0.595	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1607903-08	W-17-High_072116_SED_03	0.563	40	-	-	-		
1607903-08RE1	W-17-High_072116_SED_03	0.563	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
903-09	W-17-Intertidal_072616_SED_03	0.584	40	-	-	-		
903-09RE1	W-17-Intertidal_072616_SED_03	0.584	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2

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Date: 9/8/2016

PREPARATION BENCH SHEET

F608517

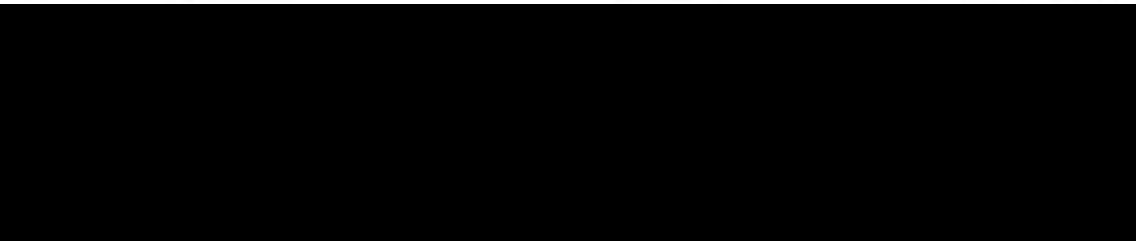
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 8/31/2016

1607903-10	W-17-Low_072616_SED_03	0.558	40	QC	-	-	MS/MSD	
1607903-11	W-17-Mid_072116_SED_03	0.548	40	-	-	-		
1607903-12	W-21-High_072516_SED_03	0.554	40	-	-	-		
1607903-13	W-21-Intertidal_072516_SED_03	0.534	40	-	-	-		
1607903-14	W-21-Low_072516_SED_03	0.52	40	-	-	-		
1607903-15	W-21-Mid_072516_SED_03	0.584	40	-	-	-		
1607903-16	W-21UM-Central-C_072716_SED_03	0.587	40	-	-	-		
1607903-17	W-21UM-East-C_072516_SED_03	0.585	40	-	-	-		
1607903-18	W-21UM-South_072716_SED_03	0.594	40	-	-	-		



PREPARATION BENCH SHEET

F609214

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 9/1/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609214-BLK1	Blank	0.5	40					
F609214-BLK2	Blank	0.5	40					
F609214-BLK3	Blank	0.5	40					
F609214-BS1	Blank Spike	0.5	40	1603211	40			
F609214-BSD1	Blank Spike dup	0.5	40	1603211	40			
F609214-DUP1	Duplicate [1607903-43]	0.562	40					
F609214-MS1	Matrix Spike [1607903-43]	0.528	40	1603188	200			
F609214-MS2	Matrix Spike [1608071-01RE2]	0.529	40	1603188	200			
F609214-MSD1	Matrix Spike Dup [1607903-43]	0.591	40	1603188	200			
F609214-MSD2	Matrix Spike Dup [1608071-01RE2]	0.551	40	1603188	200			

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1603188	THg 1,000ng/mL Primary Spiking Standard	15-Dec-16 00:00	1600451	Boiling Chips for AFS prep	14-Dec-16 00:00
1603211	THg 100ng/mL Primary Spiking Standard	16-Sep-16 00:00	1602941	25% Hydroxylamine-HCl working solution	03-Dec-16 00:00
			1603826	THg Dilute 1% BrCl	12-Dec-16 00:00
			1603827	THg Washstation (0.5% BrCl)	03-Dec-16 00:00
			1604378	Omnitrace Hydrochloric Acid	04-Aug-19 00:00
			1604810	Fisher Nitric Acid, Tracemetal Grade	24-Mar-18 00:00
			1605096	3% SnCl ₂ THg reductant	22-Feb-17 00:00
			1605111	5% BrCl	09-Feb-17 00:00

PREPARATION BENCH SHEET

F609214

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 9/1/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607903-19	W-21UM-West-A_07/27/16_SED_03	0.574	40	-	-	-		
1607903-29	W-65-High_072516_SED_03	0.522	40	-	-	-		
1607903-29RE1	W-65-High_072516_SED_03	0.522	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1607903-30	W-65-Intertidal_072516_SED_03	0.546	40	-	-	-		
1607903-30RE1	W-65-Intertidal_072516_SED_03	0.546	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1607903-31	W-65-Low_072516_SED_03	0.582	40	-	-	-		
1607903-31RE1	W-65-Low_072516_SED_03	0.582	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1607903-32	W-65-Mid_072516_SED_03	0.545	40	-	-	-		
1607903-33	ES-15_072716_SED_03	0.561	40	-	-	-		
1607903-34	SVE-01_072716_SED_03	0.556	40	-	-	-		
1607903-35	OL-01_072716_SED_03	0.59	40	-	-	-		
1607903-36	W17-N_072116_SED_03	0.577	40	-	-	-		
1607903-37	ADD-01_072116_SED_03	0.526	40	-	-	-		
1607903-37RE1	ADD-01_072116_SED_03	0.526	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1607903-38	ADD-02_072216_SED_03	0.596	40	-	-	-		
1607903-38RE1	ADD-02_072216_SED_03	0.596	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1607903-39	W-17-Low_072616_SED_03_DUP	0.594	40	-	-	-		
903-43	BO-04-02_072616_SED_03	0.55	40	QC	-	-	MS/MSD	
903-44	BO-04-02_072616_SED_03_DUP	0.559	40	-	-	-		

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Date: 9/8/2016

PREPARATION BENCH SHEET

F609214

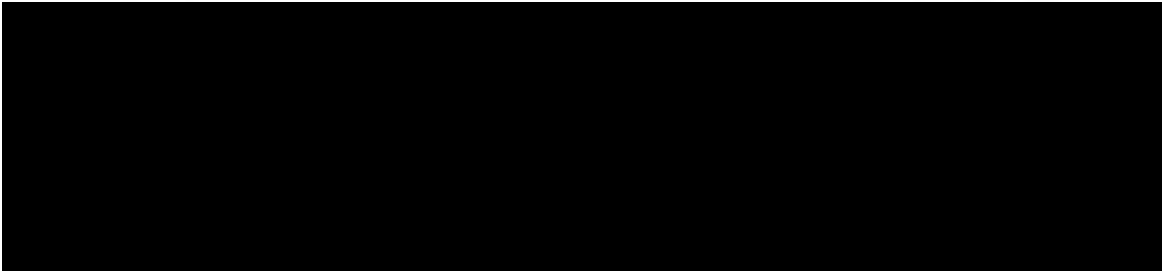
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 9/1/2016

1608071-01	ES-04_072816_SED_03	0.588	40	-	-	-		
1608071-01RE1	ES-04_072816_SED_03	0.588	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1608071-01RE2	ES-04_072816_SED_03	0.588	40	-	-	-	Added 9/7/2016 by DM2	Added 9/7/2016 by DM2
1608071-02	E-01-01_072816_SED_03	0.557	40	-	-	-		
1608071-03	E-01-03_072816_SED_03	0.581	40	-	-	-		
1608071-04	E-01-04_072816_SED_03	0.588	40	-	-	-		
1608321-01	OL-2465-01	1	40	-	-	-	Prep with 1mL Scan all data for level IV	
1608321-01RE1	OL-2465-01	1	40	-	-	-	Prep with 1mL Added 9/7/2016 by DM.	Added 9/7/2016 by DM2
1608321-01RE2	OL-2465-01	1	40	-	-	-	Prep with 1mL Added 9/7/2016 by DM.	Added 9/7/2016 by DM2
1608321-02	OL-2465-02	1	40	-	-	-	Prep with 1mL Scan all data for level IV	
1608321-02RE1	OL-2465-02	1	40	-	-	-	Prep with 1mL Added 9/7/2016 by DM.	Added 9/7/2016 by DM2



PREPARATION BENCH SHEET

2600-3

9/16/16 DM

F608517

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 8/31/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F608517-BLK1	Blank	0.5	40					20X
F608517-BLK2	Blank	0.5	40					20X
F608517-BLK3	Blank	0.5	40					20X
F608517-BS1	Blank Spike	0.5	40	1603188	200			500X
F608517-BSD1	Blank Spike Dup	0.5	40	1603188	200			500X
F608517-DUP1	Duplicate [1607903-10]	0.586	40					100X
F608517-MS1	Matrix Spike [1607903-10]	0.561	40	1603188	200			500X
F608517-MS2	Matrix Spike [1607903-18]	0.556	40	1603188	200			500X
F608517-MSD1	Matrix Spike Dup [1607903-10]	0.572	40	1603188	200			500X
F608517-MSD2	Matrix Spike Dup [1607903-18]	0.596	40	1603188	200			500X

Standard ID(s): 1603188
 Description: THg 1,000ng/mL Primary Spiking Standard

Expiration: 15-Dec-16 00:00

Reagent ID(s):

1600451
 1603334
 1604512
 1604980

Description:

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

Expiration:

14-Dec-16 00:00
 21-Jun-19 00:00
 24-Mar-18 00:00
 11-Jan-17 00:00

1605056 1605096

1603827

1603826

1602941

PREPARATION BENCH SHEET

200-3
9/16/16 DM

F608517

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 8/31/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607418-02	OL-2464-01 - Retest #1	1.029	40	-	-	-	Prep 1mL Scan all data for level IV rept	100X → 20X
1607418-03	OL-2464-01 - Retest #2	1.047	40	-	-	-	Prep 1mL Scan all data for level IV rept	100X → 20X
1607903-01	OV-04_072216_SED_03	0.539	40	-	-	-		100X
1607903-02	OV-01_072216_SED_03	0.548	40	-	-	-		100X
1607903-03	OV-02_072216_SED_03	0.556	40	-	-	-		100X
1607903-04	BO-05_072016_SED_03	0.532	40	-	-	-		100X → 500X
1607903-05	OB-05_072616_SED_03	0.558	40	-	-	-		100X → 100X
1607903-06	ES-02_072716_SED_03	0.589	40	-	-	-		100X → 500X
1607903-07	ES-13_072716_SED_03	0.595	40	-	-	-		100X → 100X
1607903-08	W-17-High_072116_SED_03	0.563	40	-	-	-		100X → 500X
1607903-09	W-17-Intertidal_072616_SED_03	0.584	40	-	-	-		100X → 100X
1607903-10	W-17-Low_072616_SED_03	0.558	40	QC	-	-	MS/MSD	100X →
1607903-11	W-17-Mid_072116_SED_03	0.548	40	-	-	-		100X
1607903-12	W-21-High_072516_SED_03	0.554	40	-	-	-		100X
1607903-13	W-21-Intertidal_072516_SED_03	0.534	40	-	-	-		100X
1607903-14	W-21-Low_072516_SED_03	0.52	40	-	-	-		500X
1607903-15	W-21-Mid_072516_SED_03	0.584	40	-	-	-		500X
903-16	W-21UM-Central-C_072716_SED_03	0.587	40	-	-	-		500X
903-17	W-21UM-East-C_072516_SED_03	0.585	40	-	-	-		500X

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Date: 8/26/2016

PREPARATION BENCH SHEET

2400.3

9/6/16 DM

F608517

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 8/31/2016

1607903-18	W-21UM-South_072716_SED_03	0.594	40	-	-	-		500X
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Technician: Dyer Batch#: F608517 Date: 8/31/16

- 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: 1604980) Spike vol.: 200 µL (LIMS ID: 1603188)

Spike Witness: DM 8/31/16 (initial and date)

HCl LIMS ID: 1603334

Pipette SN#: Mu11607 Calibration Date: 8/21/16

HNO₃ LIMS ID: 1604512

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

70/30 LIMS ID: N/A

Dispenser #: 08Y2293 Calibrated? Yes No

Other Acid LIMS ID: N/A

Dispenser #: 09N45351 Yes 02K27494 Yes

Glass Vial # 00065051 Boiling Chip lot # 1600451 *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	F608517 Blank1	0.534	23	1607903-11	0.548	
2	F608517 Blank2	0.507	24	1607903-12	0.554	
3	F608517 Blank3	0.516	25	1607903-13	0.534	
4	F608517 BS1	0.507	26	1607903-14	0.520	Comments 1607418-02, 03. have a lot of sample weights 18 8/31/16 dupl, MS1, MS2 source 70 1607903-10 24 8/21/16
5	F608517 BS01	0.523	27	1607903-15	0.584	
6	F608517 Dup1	0.586	28	1607903-16	0.587	
7	F608517 MS1	0.561	29	1607903-17	0.585	
8	F608517 MS01	0.572	30	1607903-18	0.594	
9	F608517 MS2	0.556	31	1607903-19		
10	F608517 MS02	0.598	32			
11	1607418-02	1.029	33			
12	1607418-03	1.047	34		9-1-16	
13	1607903-01	0.539	35		04	
14	1607903-02	0.548	36			
15	1607903-03	0.556	37			
16	1607903-04	0.532	38			
17	1607903-05	0.558	39			
18	1607903-06	0.589	40			
19	1607903-07	0.595	41			
20	1607903-08	0.563	42			
21	1607903-09	0.584	43			
22	1607903-10	0.558	44			

PREPARATION BENCH SHEET

200-3
9/16/16 DM

F609214

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 9/1/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609214-BLK1	Blank	0.5	40					20X
F609214-BLK2	Blank	0.5	40					20X
F609214-BLK3	Blank	0.5	40					20X
F609214-BS1	Blank Spike	0.5	40	1603211	40			20X
F609214-BSD1	Blank Spike dup	0.5	40	1603211	40			20X
F609214-DUP1	Duplicate [1607903-43]	0.562	40					50X
F609214-MS1	Matrix Spike [1607903-43]	0.528	40	1603188	200			50X
F609214-MS2	Matrix Spike [1608071-01] REX 2	0.529	40	1603188	200			500X
F609214-MSD1	Matrix Spike Dup [1607903-43]	0.591	40	1603188	200			500X
F609214-MSD2	Matrix Spike Dup [1608071-01] REX 2	0.551	40	1603188	200			500X

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1603188	THg 1,000ng/mL Primary Spiking Standard	15-Dec-16 00:00	1600451	Boiling Chips for AFS prep	14-Dec-16 00:00
1603211	THg 100ng/mL Primary Spiking Standard	16-Dec-16 00:00	1604378	Omnitrace Hydrochloric Acid	04-Aug-19 00:00
			1604810	Fisher Nitric Acid, Tracemetal Grade	24-Mar-18 00:00
			1605111	5% BrCl	09-Feb-17 00:00

1605056 1600 1605096
1603527
1603526
1602941

PREPARATION BENCH SHEET

2600.3
9/1/16 DM

F609214

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 9/1/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607903-19	W-21UM-West-A_07/27/16_SED_03	0.574	40	-	-	-		500X
1607903-29	W-65-High_072516_SED_03	0.522	40	-	-	-		500X → 20X
1607903-30	W-65-Intertidal_072516_SED_03	0.546	40	-	-	-		500X → 100X
1607903-31	W-65-Low_072516_SED_03	0.582	40	-	-	-		500X → 20X
1607903-32	W-65-Mid_072516_SED_03	0.545	40	-	-	-		500X
1607903-33	ES-15_072716_SED_03	0.561	40	-	-	-		500X
1607903-34	SVE-01_072716_SED_03	0.556	40	-	-	-		500X
1607903-35	OL-01_072716_SED_03	0.59	40	-	-	-		500X
1607903-36	W17-N_072116_SED_03	0.577	40	-	-	-		500X
1607903-37	ADD-01_072116_SED_03	0.526	40	-	-	-		500X → 20X
1607903-38	ADD-02_072216_SED_03	0.596	40	-	-	-		500X → 20X
1607903-39	W-17-Low_072616_SED_03_DUP	0.594	40	-	-	-		500X
1607903-43	BO-04-02_072616_SED_03	0.55	40	QC	-	-	MS/MSD	500X
1607903-44	BO-04-02_072616_SED_03_DUP	0.559	40	-	-	-		500X
1608071-01	ES-04_072816_SED_03	0.588	40	-	-	-		50X → 20X → 100X
1608071-02	E-01-01_072816_SED_03	0.557	40	-	-	-		500X
071-03	E-01-03_072816_SED_03	0.581	40	-	-	-		500X
071-04	E-01-04_072816_SED_03	0.588	40	-	-	-		500X
321-01	OL-2465-01	1	40	-	-	-	Prep with 1mL Scan all data for level IV	500X → 20X → 20X

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PREPARATION BENCH SHEET

2600-3
9/1/16 DM

F609214

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

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

Prepared: 9/1/2016

1608321-02	OL-2465-02	1	40	-	-	-	Prep with 1mL Scan all data for level IV	500X → 20X
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Technician: Duyen Batch#: F609214 Date: 9/1/16

- 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: 1605111) Spike vol.: 200 µL (LIMS ID: 1603188)

Spike Witness: BC 9-1-16 (initial and date)

HCl LIMS ID: 1604378 Pipette SN#: M4211607 Calibration Date: 8/31/16

HNO₃ LIMS ID: 1604810 Pipette SN#: N/A Calibration Date: N/A

70/30 LIMS ID: N/A Dispenser #: 0842293 Calibrated? Yes No

Other Acid LIMS ID: N/A Dispenser #: 09N45351, 02K27494 Yes

Glass Vial # 0065051 Boiling Chip lot # 1600451 *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	F609214 Blank1	0.497	23	1607903-43A	0.550	
2	F609214 Blank2	0.469	24	1607903-44A	0.559	
3	F609214 Blank3	0.517	25	1608071-01A	0.588	
4	F609214 B51	0.523	26	1608071-02A	0.557	Comments Dupl. MS1 MS01 1607903-43 source: MS2, MS02 1608071-01 B51, B501 = 100 µg/L = 40 µL 1603211 1608321-01-02 weight/mL have a lot liquid samples 9/1/16 via
5	F609214 B501	0.519	27	1608071-03A	0.581	
6	F609214 Dupl	0.562	28	1608071-04	0.588	
7	F609214 MS1	0.528	29	1608321-01A	1.036	
8	F609214 MS01	0.591	30	1608321-02A	1.051	
9	F609214 MS2	0.529	31			
10	F609214 MS02	0.551	32			
11	1607903-19A	0.574	33			
12	1607903-29A	0.522	34			
13	1607903-30A	0.546	35			
14	1607903-31A	0.582	36			
15	1607903-32A	0.545	37			
16	1607903-33A	0.561	38			
17	1607903-34A	0.556	39			
18	1607903-35A	0.590	40			
19	1607903-36A	0.577	41			
20	1607903-37A	0.526	42			
21	1607903-38A	0.596	43			
22	1607903-39A	0.594	44			

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

Analyst:	DON MORAN	Sequence(s) #:	6107006
Reviewer:	DAN WEIKART 9-8-16	Dataset ID(s):	THG26003-160906-1
Date:	9/7/2016	WO (s) #:	1607903, 1608071, 1608321, 1607418
Batch #(s):	F608517, F609214		

• 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 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: DW

- | | | | |
|---|---|--|--|
| 1. Compare SampleID with Benchsheet/Sequence/Raw Data (Have all samples been imported?) | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 2. Check for transcription errors from Excel spreadsheet (or Prep Benchsheet)/Raw data | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| (a) On raw data (instrument print-out), does correct file (dataset ID#) name appear in description? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| Naming convention: THg26001-yymmdd-1 or THg26002-yymmdd-1 | | | |
| (b) Check 5% of transcription from Instrument print-out and Excel file | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| Compare the "Dilute" and "Peak (raw)" columns to "Dilution" and "Uncorrected Result" in Excel | | | |
| (c) Check standards & reagents in sequence & bench sheet for correct usage (expiries). | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| (d) Check and compare masses (review prep benchsheet) | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| (e) Check & compare initial & final volumes | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| (f) Do aliquots and dilutions written on benchsheet match those in Excel? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 50 ml / aliquot = Excel dilution value | | | |
| (g) Is the sequence #, analyst, date, and instrument # on the QC page? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| (h) Is the analysis status correct? (analyzed/initial review/reviewed) | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| (i) Original prep bench sheet added to data package? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| (j) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract) | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 3. High QA? WO#(s)/Client(s): _____ | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 4. Client specific QC? (if Yes, refer to Project Notes/LIMS) | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| (a) Have the QC requirements been met for all WO#s? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| (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 LCS(D 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:	<u>DON MORAN</u>	Sequence(s) #:	<u>6107006</u>
Reviewer:	<u>0</u>	Dataset ID(s):	<u>THG26003-160906-1</u>
Date:	<u>9/7/2016</u>	WO (s) #:	<u>1607903, 1608071, 1608321, 1607418</u>
Batch #(s):	<u>F608517, F609214</u>		<u>0</u>

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 (≤ 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: 1607903-04,06, 08 AND 1608071-01RE1 HIGH SAMPLES
13. Are the individual Preparation Blanks < PQL or <2.2xMDL for WI (refer to appropriate prep method PQL list) PASS FAIL
 (a) If not < PQL or <2.2xMDL for WI, note which PB(s) are above control limit:
 (b) Is the mean PB < PQL or <2.2xMDL for WI (for appropriate qualification)? YES NO
 (c) Was a BrCl Blank analyzed for each preservation level? YES NO N/A
 (d) Are Preparation Blanks summarized on QC page? YES NO
14. Filtration Blank Prepared (if yes, use FB qualifier) YES NO
 (a) Filtration Blank prep date same as associated samples' prep date YES NO N/A
 (b) Filtration Blank absolute value < PQL or <2.2xMDL for WI YES NO N/A
15. IBLs (3 minimum) individually < 0.50 ng/L, mean < 0.25 ng/L and STD of 0.10 ng/L? PASS FAIL
 Comments: _____
16. CCBs individually < 0.50 ng/L or 2.2 x MDL for WI? PASS FAIL
 Comments: _____
17. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done) YES NO N/A
18. Is the correct 'Source' designated for MD/MS/MSD? YES NO
19. For digested preps: was there a spike witness signature & date on the prep bench sheet? YES NO N/A

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

Analyst:	DON MORAN	Sequence(s) #:	6107006
Reviewer:	0	Dataset ID(s):	THG26003-160906-1
Date:	9/7/2016	WO (s) #:	1607903, 1608071, 1608321, 1607418
Batch #(s):	F608517, F609214		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 | |
| Comments: _____ | | | |
| 23. Dissolved < Total (if applicable) | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____ | | | |
| 24. Effluent < Influent (visually confirm if needed) | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____ | | | |
| 25. Are re-runs noted with reason? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____ | | | |
| 26. FSTM Datasets: Check to ensure the 'Response' & 'Initial Result' columns match in both the Excel dataset & LIMS for the FSTM A (in sequence) & B/C (in batch) traps? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____ | | | |
| 27. Is the B trap <5% A Traps | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____ | | | |
| 28. Are spiked trap recoveries 75-125% of true value? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____ | | | |
| 29. Have non-reportable samples been imported into LIMS and clicked to non-reportable? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Comments: _____ | | | |
| 30. Have re-extracts been created for non-reportable samples? | <input 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 type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 35. Water samples-is the final volume correct in the sequence? | <input type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> |

Files located at: \\Cuprum\gen_admin\Quality Assurance\Training Master\DOCs

- | | | | |
|--|---|-----------------------------|-------------------------------------|
| 36. Date of analyst IDOC/CDOC: _____ 1/18/2016 _____ IDOC/CDOC within last 12 months? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 37. Date of analyst's SOP reading for method: _____ 5/20/2016 _____ Current SOP revision read? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 38. Date of LOD: _____ 5/12/2016 _____ LOD within last 3 months? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 39. Date of LOQ: _____ 5/12/2016 _____ LOQ within last 3 months? | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |

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

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

Analyst:	DON MORAN	Sequence(s) #:	6107006
Reviewer:	0	Dataset ID(s):	THG26003-160906-1
Date:	9/7/2016	WO (s) #:	1607903, 1608071, 1608321, 1607418
Batch #(s):	F608517, F609214		0

DM

40. Peer Reviewer's comments (use Peer Review Checklist Additional Comments form if necessary):

Additional Page (s)? YES



Frontier Global Sciences

MMHg27001-160908-1

Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: September 08, 2016

Analyst: RN

Instrument #: Hg2700-1

Units ng/L

LIMS Sequence #: 6I09004

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	26.65 units	532.92	25.99 units	519.88	95.1 %Rec
SEQ-CAL2	1	0.20 ng/L	115.11 units	575.55	114.46 units	572.29	104.7 %Rec
SEQ-CAL3	1	1.00 ng/L	511.61 units	511.61	510.96 units	510.96	93.4 %Rec
SEQ-CAL4	1	2.00 ng/L	1161.30 units	580.65	1160.65 units	580.33	106.1 %Rec
SEQ-CAL5	1	4.00 ng/L	2203.87 units	550.97	2203.22 units	550.81	100.7 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF **Corr. St Dev RF** **Corr. RSD CF** **Uncorr. Mean RF**
 546.85 +/- 30.82 5.6% RSD 550.34

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.65 units		0.00 ng/L	#VALUE!

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.041 ng/L	±0.005
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 Type	LabNumber	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	RN	CAL	SEQ-IBL1	1	9/8/16 10:11	15587-1.RAW	10:11:25	0.65			0.0	0.000	0.000	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL1	1	9/8/16 10:21	15588-1.RAW	10:21:55	26.65			26.0	0.048	0.048	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL2	1	9/8/16 10:32	15589-1.RAW	10:32:26	115.11			114.5	0.209	0.209	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL3	1	9/8/16 10:42	15590-1.RAW	10:42:57	511.61			511.0	0.934	0.934	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL4	1	9/8/16 10:53	15591-1.RAW	10:53:28	1161.30			1160.7	2.122	2.122	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL5	1	9/8/16 11:03	15592-1.RAW	11:03:58	2203.87			2203.2	4.029	4.029	ng/L	
Hg2700-1	RN	CAL	SEQ-ICV1	1	9/8/16 11:14	15593-1.RAW	11:14:29	313.17			312.5	0.571	0.571	ng/L	
Hg2700-1	RN	CAL	SEQ-ICB1	1	9/8/16 11:25	15594-1.RAW	11:25:00	11.17			10.5	0.019	0.019	ng/L	
Hg2700-1	RN	BLK	F609212-BLK4	1	9/8/16 11:35	15595-1.RAW	11:35:30	23.72	1		23.1	0.042	0.042	ng/L	
Hg2700-1	RN	BLK	F609212-BLK5	1	9/8/16 11:46	15596-1.RAW	11:46:01	25.38	1		24.7	0.045	0.045	ng/L	
Hg2700-1	RN	BLK	F609212-BLK6	1	9/8/16 11:56	15597-1.RAW	11:56:32	19.79	1		19.1	0.035	0.035	ng/L	
Hg2700-1	RN	SAM	F609212-BS2	5	9/8/16 12:07	15598-1.RAW	12:07:02	1056.06	1		1055.4	1.922	9.609	ng/L	
Hg2700-1	RN	SAM	F609212-BSD2	5	9/8/16 12:17	15599-1.RAW	12:17:33	1116.62	1		1116.0	2.033	10.163	ng/L	
Hg2700-1	RN	SAM	F609212-DUP2	5	9/8/16 12:28	15600-1.RAW	12:28:04	1871.30	1		1870.6	3.413	17.063	ng/L	
Hg2700-1	RN	SAM	F609212-MS3	5	9/8/16 12:38	15601-1.RAW	12:38:34	3739.85	1		3739.2	6.830	34.148	ng/L	
Hg2700-1	RN	SAM	F609212-MSD3	5	9/8/16 12:49	15602-1.RAW	12:49:05	2834.16	1		2833.5	5.173	25.867	ng/L	
Hg2700-1	RN	SAM	F609212-MS4	5	9/8/16 12:59	15603-1.RAW	12:59:36	1607.21	1		1606.6	2.930	14.648	ng/L	
Hg2700-1	RN	SAM	F609212-MSD4	5	9/8/16 13:10	15604-1.RAW	13:10:07	1694.71	1		1694.1	3.090	15.448	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV1	1	9/8/16 13:20	15605-1.RAW	13:20:38	347.42			346.8	0.634	0.634	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB1	1	9/8/16 13:31	15606-1.RAW	13:31:08	14.27			13.6	0.025	0.025	ng/L	
Hg2700-1	RN	SAM	1607903-32RE1	1	9/8/16 13:41	15607-1.RAW	13:41:39	1146.25	1		1145.6	2.054	2.054	ng/L	
Hg2700-1	RN	SAM	1607903-33RE1	1	9/8/16 13:52	15608-1.RAW	13:52:10	1984.16	1		1983.5	3.586	3.586	ng/L	
Hg2700-1	RN	SAM	1607903-37RE1	1	9/8/16 14:02	15609-1.RAW	14:02:41	134.58	1		133.9	0.204	0.204	ng/L	
Hg2700-1	RN	SAM	1608071-01RE1	1	9/8/16 14:13	15610-1.RAW	14:13:11	605.88	1		605.2	1.066	1.066	ng/L	
Hg2700-1	RN	SAM	1608071-02RE1	1	9/8/16 14:23	15611-1.RAW	14:23:42	2252.46	1		2251.8	4.077	4.077	ng/L	
Hg2700-1	RN	SAM	WS	1	9/8/16 14:34	15612-1.RAW	14:34:13	21.01	1		20.4	-0.004	-0.004	ng/L	
Hg2700-1	RN	SAM	1608071-05RE1	1	9/8/16 14:44	15613-1.RAW	14:44:43	1644.50	1		1643.8	2.965	2.965	ng/L	
Hg2700-1	RN	SAM	1608071-06RE1	1	9/8/16 14:55	15614-1.RAW	14:55:14	1321.74	1		1321.1	2.375	2.375	ng/L	
Hg2700-1	RN	SAM	1608071-07RE1	1	9/8/16 15:05	15615-1.RAW	15:05:45	895.68	1		895.0	1.596	1.596	ng/L	
Hg2700-1	RN	SAM	1608071-11RE1	1	9/8/16 15:16	15616-1.RAW	15:16:16	600.99	1		600.3	1.057	1.057	ng/L	
Hg2700-1	RN	SAM	1608072-02RE1	1	9/8/16 15:26	15617-1.RAW	15:26:46	490.76	1		490.1	0.855	0.855	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV2	1	9/8/16 15:37	15618-1.RAW	15:37:17	281.35			280.7	0.513	0.513	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB2	1	9/8/16 15:47	15619-1.RAW	15:47:48	8.96			8.3	0.015	0.015	ng/L	
Hg2700-1	RN	SAM	1607903-34RE1	10	9/8/16 15:58	15620-1.RAW	15:58:19	1210.12	1		1209.5	2.208	22.076	ng/L	
Hg2700-1	RN	SAM	1607903-35RE1	10	9/8/16 16:08	15621-1.RAW	16:08:49	596.48	1		595.8	1.085	10.855	ng/L	
Hg2700-1	RN	SAM	1607903-36RE1	10	9/8/16 16:19	15622-1.RAW	16:19:20	1343.67	1		1343.0	2.452	24.518	ng/L	
Hg2700-1	RN	SAM	1607903-38RE1	10	9/8/16 16:29	15623-1.RAW	16:29:51	123.93	1		123.3	0.221	2.214	ng/L	
Hg2700-1	RN	SAM	1607903-39RE1	10	9/8/16 16:40	15624-1.RAW	16:40:22	518.29	1		517.6	0.942	9.425	ng/L	
Hg2700-1	RN	SAM	1607903-43RE1	10	9/8/16 16:50	15625-1.RAW	16:50:52	1024.90	1		1024.3	1.869	18.689	ng/L	
Hg2700-1	RN	SAM	1607903-44RE1	10	9/8/16 17:01	15626-1.RAW	17:01:23	1181.57	1		1180.9	2.155	21.554	ng/L	
Hg2700-1	RN	SAM	1608071-03RE1	10	9/8/16 17:11	15627-1.RAW	17:11:54	281.29	1		280.6	0.509	5.091	ng/L	
Hg2700-1	RN	SAM	1608071-04RE1	10	9/8/16 17:22	15628-1.RAW	17:22:25	550.39	1		549.7	1.001	10.012	ng/L	
Hg2700-1	RN	SAM	1608071-10RE1	10	9/8/16 17:32	15629-1.RAW	17:32:54	466.89	1		466.2	0.849	8.485	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV3	1	9/8/16 17:43	15630-1.RAW	17:43:25	284.65			284.0	0.519	0.519	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB3	1	9/8/16 17:53	15631-1.RAW	17:53:56	5.17			4.5	0.008	0.008	ng/L	
Hg2700-1	RN	SAM	1608071-02RE2	10	9/8/16 18:04	15632-1.RAW	18:04:26	476.97	1		476.3	0.867	8.669	ng/L	

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	RN	SAM	F609212-MS5 -	20	9/8/16 18:14	15633-1.RAW	18:14:57	1097.40	1		1096.7	2.004	40.071	ng/L	
Hg2700-1	RN	SAM	F609212-MSD5 -	20	9/8/16 18:25	15634-1.RAW	18:25:28	855.67	1		855.0	1.561	31.230	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV4 -	1	9/8/16 18:35	15635-1.RAW	18:35:58	389.64			389.0	0.711	0.711	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB4 -	1	9/8/16 18:46	15636-1.RAW	18:46:29	9.60			8.9	0.016	0.016	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV5 -	1	9/8/16 18:57	15637-1.RAW	18:57:00	328.98			328.3	0.600	0.600	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV6 -	1	9/8/16 19:07	15638-1.RAW	19:07:30	346.59			345.9	0.633	0.633	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB5 -	1	9/8/16 19:18	15639-1.RAW	19:18:01	5.26			4.6	0.008	0.008	ng/L	

MethylMercury
EPA1630

Operat RN BlankS: 0.652 Calib Eqn: Conc = (Area-0.652) / 546
 Workst MHg270 CalibFa 546.85 Status: OK, 1 Warnings
 Method 2010-01 R: 0.9994 R²: 0.998735917
 Descr: MHg27001-160908-1

Run Date: ##### Blank SD: 0
 Run Time: 9:44:52 Blank RSD: 0
 CalibAnal: MeHg CF SD: 30.81903264
 CF RSD%: 5.635722858

Sample/ID	Location	Rinse	Dilute	Blank	ConcH2O(p)	ConcMeHg(ppb)	ConcH2O(p)	ConcPbHg(%)	QA	RawData	RunEnd	PeakH2O (Raw)	PeakMeHg (R)	PeakH2O (Raw)	PeakPbHg (Raw)	Control (etf)	Flags	RunCount	
Clean					0	0.000280436	0.005779			15585-1.RAW		0	0.15335701	3.16016321	0	cleandry	CT	1	
WS	A1									15586-1.RAW		20.4861506		0	3.23830492	0	psample10	OK	1
SEQ-IBL1	A2	1	0	0.102136	0.001192259	0.0509979				15587-1.RAW		55.853196	0.65198864	27.8780066	0	psample10	CT	1	
SEQ-CAL1	A3	1	0.652	0.140688	0.047533605	0.051194		95.07		15588-1.RAW		77.5873106	26.6458097	28.6477746	0	psample10	CT	1	
SEQ-CAL2	A4	1	0.652	0.184388	0.209303988	0.060209		104.65		15589-1.RAW		101.484754	115.11018	33.5771307	0	psample10	CT	1	
SEQ-CAL3	A5	1	0.652	0.309245	0.934365027	0.070777		93.44		15590-1.RAW		169.762926	511.610866	39.3563447	0	psample10	CT	1	
SEQ-CAL4	A6	1	0.652	0.501331	2.122425045	0.121445		106.12		15591-1.RAW		274.805436	1161.30322	67.0641572	0	psample10	CT	1	
SEQ-CAL5	A7	1	0.652	1.106191	4.028921661	0.146968		100.72		15592-1.RAW		605.574228	2203.87367	81.0217566	0	psample10	CT	1	
SEQ-ICV1	A8	1	0.652	1.220284	0.571493519	0.402006		114.44		15593-1.RAW		667.966091	313.174053	220.489301	0	psample10	CT	1	
SEQ-ICB1	A9	1	0.652	0.168288	0.019225806	0.054086		0.00		15594-1.RAW		92.6807866	11.1656487	30.2289299	0	psample10	CT	1	
F609212-BLK9	A10	1	0.652	0.13576	0.042183028	0.106558				15595-1.RAW		74.8926847	23.719839	58.9236506	0	psample10	CT	1	
F609212-BLK5	A11	1	0.652	0.119398	0.045217877	0.063922				15596-1.RAW		65.9447492	25.3794508	35.6079545	0	psample10	OK	1	
F609212-BLK6	A12	1	0.652	0.103719	0.034988606	0.057384				15597-1.RAW		57.3709991	19.7855587	32.0324811	0	psample10	CT	1	
F609212-BS2	A13	5	0.652	1.013878	6.949857828	0.310776				15598-1.RAW		111.540173	1056.05975	34.616193	0	psample10	CT	1	
F609212-BS2	A14	5	0.652	0.941643	10.20353448	0.30453				15599-1.RAW		103.639792	1116.61553	33.9585701	0	psample10	CT	1	
F609212-OUP2	A15	5	0.652	1.00955	17.10376528	0.86703				15600-1.RAW		111.066816	1871.29579	95.4792614	0	psample10	CT	1	
F609212-M53	A16	5	0.652	1.378771	34.18844965	0.999704	1139.61			15601-1.RAW		151.448601	3739.8527	109.989867	0	psample10	OK	1	
F609212-MSD3	A17	5	0.652	1.23989	25.9074659	0.952775				15602-1.RAW		136.25911	2834.15909	104.857315	0	psample10	CT	1	
F609212-MS4	A18	5	0.652	1.595564	14.68918904	0.441215	367.23			15603-1.RAW		175.159286	1607.21288	48.9078125	0	psample10	CT	1	
F609212-MSD4	A19	5	0.652	1.50718	15.48922435	0.434218				15604-1.RAW		165.492652	1694.71297	48.1425663	0	psample10	CT	1	
SEQ-CCV1	A20	1	0.652	0.704126	0.634115869	0.756836	126.98			15605-1.RAW		385.704563	347.419176	414.529026	0	psample10	CT	1	
SEQ-CCB1	A21	1	0.652	0.120564	0.024909514	0.14472	0.00			15606-1.RAW		66.5824811	14.2737926	79.7921402	0	psample10	CT	1	
1607903-32RE1	B1	1	0.652	0.13058	2.094894509	0.303828				15607-1.RAW		72.0596591	1146.24811	166.800805	0	psample10	OK	1	
1607903-33RE1	B2	1	0.652	0.190311	3.627140469	0.315418				15608-1.RAW		104.723934	1984.15904	173.13892	0	psample10	OK	1	
1607903-37RE1	B3	1	0.652	0.159582	0.244909504	0.056022				15609-1.RAW		87.9197969	134.581108	31.2877367	0	psample10	OK	1	
1608071-01RE1	B4	1	0.652	0.180365	1.106749634	0.065002				15610-1.RAW		99.2847914	605.87964	36.1982718	0	psample10	CT	1	
1608071-02RE1	B5	1	0.652	0.238968	4.117763667	0.712223				15611-1.RAW		131.331811	2252.45705	390.13227	0	psample10	CT	1	
WS	A1	1	0.652	0.117837	0.03722988	0.010712				15612-1.RAW		65.0914299	21.0074337	6.50980114	0	psample10	CT	1	
1608071-05RE1	B6	1	0.652	0.223777	3.006015636	1.353359				15613-1.RAW		123.024667	1644.49602	740.738181	0	psample10	CT	1	
1608071-06RE1	B7	1	0.652	0.282857	2.415809882	0.148678				15614-1.RAW		155.332792	1321.74115	81.9568182	0	psample10	CT	1	
1608071-07RE1	B8	1	0.652	0.234758	1.636687512	0.162532				15615-1.RAW		129.029585	895.676941	89.5326705	0	psample10	CT	1	
1608071-11RE1	B9	1	0.652	0.165912	1.097807604	0.328668				15616-1.RAW		91.3810855	600.989678	180.384614	0	psample10	CT	1	
1608072-02RE1	B10	1	0.652	0.09914	0.896231611	0.138297				15617-1.RAW		54.8670888	490.757552	76.2800189	0	psample10	OK	1	
SEQ-CCV2	B11	1	0.652	1.044384	0.513291706	0.434913	102.79			15618-1.RAW		571.774986	281.346307	238.484904	0	psample10	CT	1	
SEQ-CCB2	B12	1	0.652	0.091202	0.015197537	0.086872	0.00			15619-1.RAW		50.5257102	8.96278409	38.2056345	0	psample10	CT	1	
1607903-34RE1	B13	10	0.652	1.147852	22.11688282	1.266758				15620-1.RAW		63.4224669	1210.11695	69.9248106	0	psample10	CT	1	
1607903-35RE1	B14	10	0.652	1.107678	10.89567942	0.963701				15621-1.RAW	16:08:49	61.2255208	596.483807	53.3521307	0	psample10	CT	1	
1607903-36RE1	B15	10	0.652	1.245184	24.55910483	1.341017				15622-1.RAW		68.7450521	1343.67022	73.9857008	0	psample10	CT	1	
1607903-38RE1	B16	10	0.652	0.773181	2.254363712	0.78943				15623-1.RAW		42.9334991	123.932197	43.8220644	0	psample10	OK	1	
1607903-39RE1	B17	10	0.652	0.96581	9.465718299	1.243494				15624-1.RAW		53.4674749	518.286174	68.6526278	0	psample10	CT	1	
1607903-43RE1	B18	10	0.652	1.466366	18.72996732	0.898823				15625-1.RAW		80.8404437	1024.90298	49.8042377	0	psample10	CT	1	
1607903-44RE1	B19	10	0.652	0.966087	21.59486121	1.497218				15626-1.RAW		53.4826167	1181.57012	82.5275805	0	psample10	CT	1	
1608071-03RE1	B20	10	0.652	0.752257	5.131876326	1.257137				15627-1.RAW		41.7892519	281.289394	69.3987216	0	psample10	OK	1	
1608071-04RE1	B21	10	0.652	0.805446	10.05282063	1.585375				15628-1.RAW		44.6979167	550.391951	87.3484375	0	psample10	CT	1	
1608071-10RE1	C1	10	0.652	0.703107	8.525803379	1.258437				15629-1.RAW		39.1014885	466.88679	69.4697917	0	psample10	OK	1	
SEQ-CCV3	C2	1	0.652	0.922047	0.519333525	0.46342	104.00			15630-1.RAW		504.874904	284.650284	254.073665	0	psample10	CT	1	
SEQ-CCB3	C3	1	0.652	0.066938	0.008269317	0.069291	0.00			15631-1.RAW		37.2571316	5.1740767	38.5436553	0	psample10	OK	1	
1608071-02RE2	C4	10	0.652	0.899048	8.710142483	2.014474				15632-1.RAW		49.816572	476.967401	110.813778	0	psample10	CT	1	
F609212-M55	C5	20	0.652	1.795071	40.11143579	2.002065	802.23			15633-1.RAW		49.7338376	1097.40185	55.393608	0	psample10	CT	1	
F609212-MSD5	C6	20	0.652	1.642737	31.270534	2.045462				15634-1.RAW		45.5686316	855.668845	56.5801847	0	psample10	CT	1	
SEQ-CCV4	C7	1	0.652	0.391827	0.711317157	0.594791	142.44			15635-1.RAW		214.922897	389.636813	325.9143	0	psample10	CT	1	
SEQ-CCB4	C8	1	0.652	0.0644	0.016357414	0.076849	0.00			15636-1.RAW		35.8693422	9.59706439	42.6769886	0	psample10	CT	1	
SEQ-CCV5	C19	1	0.652	0.563612	0.600396279	0.500281	120.23			15637-1.RAW		308.863975	328.979569	274.231124	0	psample10	CT	1	
SEQ-CCV6	C20	1	0.652	0.429523	0.632594548	0.531902	126.68			15638-1.RAW		235.537003	346.58724	291.523284	0	psample10	CT	1	
SEQ-CCB5	C21	1	0.652	0.064825	0.008420622	0.078394	0.00			15639-1.RAW	19:18:01	36.1018939	5.25681818	43.522017	0	psample10	OK	1	

MethylMercury EPA1630

Operat: RN BlankS: 0.652 Calib Eqn: Conc = (Area-0.652) / 546. Run Date: ##### Blank SD: 0

Workst: MHg270 CalibFa: 546.85 Status: OK,1 Warnings Run Time: 9:44:52 Blank RSD: 0

Method: 2010-01 R: 0.9994 R²: 0.998735917 CalibAnaly: MeHg CF SD: 30.81903264



Descrip: MHg27001-160908-1 CF RSD%: 5.635722858

Sample/ID	Location	Rinse	Dilute	Blank	ConcHgD(ppm)	ConcMeHg(ppm)	ConcHg2(ppm)	ConcPrHg(µg:Rec%)	QA	RawData	RunEnd	PeakHgD (Raw)	PeakMeHg (R)	PeakHg2 (Raw)	PeakPrHg (Raw)	Control (str)	Flags	RunCount
Clean				0		0.000280436	0.0057788			15585-1.RAW	9:50:23	0	0.153357008	3.160163207	0	cleandry	CT	1
WS	A1									15586-1.RAW	10:00:54	21.02990057	0	3.359943182	0	psample10	OK	1
SEQ-1BL1	A2	1		0	0.102136	0.001192259	0.0509791			15587-1.RAW	10:11:25	55.85319602	0.651988636	27.87800663	0	psample10	CT	1
SEQ-CAL1	A3	1			0.652	0.1406878	0.047533605	0.0511945		15588-1.RAW	10:21:55	77.58731061	26.64580966	28.64777462	0	psample10	CT	1
SEQ-CAL2	A4	1			0.652	0.1843879	0.209303988	0.060208	95.07	15589-1.RAW	10:32:26	101.4847538	115.1101799	33.57682292	0	psample10	CT	1
SEQ-CAL3	A5	1			0.652	0.3092447	0.934365027	0.0707767	104.65	15590-1.RAW	10:42:57	169.7629261	511.6108665	39.3563447	0	psample10	CT	1
SEQ-CAL4	A6	1			0.652	0.5013307	2.122425045	0.1214446	93.44	15591-1.RAW	10:53:28	274.8054361	1161.30322	67.0641572	0	psample10	CT	1
SEQ-CAL5	A7	1			0.652	1.1061911	4.028921661	0.1469682	106.12	15592-1.RAW	11:03:58	605.5742282	2203.873674	81.02175663	0	psample10	CT	1
SEQ-ICV1	A8	1			0.652	1.2205888	0.571493519	0.4020055	100.72	15593-1.RAW	11:14:29	668.1327561	313.174053	220.4893013	0	psample10	CT	1
SEQ-ICB1	A9	1			0.652	0.1682885	0.019225806	0.0540859	114.44	15594-1.RAW	11:25:00	92.68078662	11.16564867	30.22892992	0	psample10	CT	1
F609212-BLK4	A10	1			0.652	0.1357603	0.042137139	0.1065585	0.00	15595-1.RAW	11:35:30	74.89268466	23.69474432	58.92365057	0	psample10	CT	1
F609212-BLK5	A11	1			0.652	1.1939976	0.045217877	0.0637098		15596-1.RAW	11:46:01	65.94474921	25.37945076	35.49176136	0	psample10	OK	1
F609212-BLK6	A12	1			0.652	0.1037192	0.034988606	0.0558997		15597-1.RAW	11:56:32	57.37099905	19.78555871	31.22083333	0	psample10	CT	1
F609212-BSD2	A13	5			0.652	1.0138785	9.64997082	0.3107757		15598-1.RAW	12:07:02	111.5401728	1056.072112	34.64161932	0	psample10	CT	1
F609212-BSD2	A14	5			0.652	0.9416433	10.20353448	0.3045304		15599-1.RAW	12:17:33	103.6397916	1116.61553	33.95857008	0	psample10	CT	1
F609212-DUP2	A15	5			0.652	1.0095505	17.10376528	0.8670295		15600-1.RAW	12:28:04	111.0668162	1871.295786	95.47926136	0	psample10	CT	1
F609212-MS3	A16	5			0.652	1.3787712	34.18844965	1.0004444	1139.61	15601-1.RAW	12:38:34	151.4486012	3739.852699	110.0708807	0	psample10	CT	1
F609212-MSD3	A17	5			0.652	1.2403826	25.9074659	0.9527754		15602-1.RAW	12:49:05	136.3129962	2834.159091	104.8573153	0	psample10	OK	1
F609212-MS4	A18	5			0.652	1.595564	14.68918904	0.4412151	367.23	15603-1.RAW	12:59:36	175.159286	1607.212879	48.9078125	0	psample10	CT	1
F609212-MSD4	A19	5			0.652	1.5071795	15.48922435	0.4234308		15604-1.RAW	13:10:07	165.4926523	1694.712973	46.96273674	0	psample10	CT	1
SEQ-CCV1	A20	1			0.652	0.7041264	0.634115869	0.7568363	126.98	15605-1.RAW	13:20:38	385.7045625	347.4191761	414.5290256	0	psample10	CT	1
SEQ-CCB1	A21	1			0.652	0.1205638	0.024909514	0.1447196	0.00	15606-1.RAW	13:31:08	66.58248106	14.27379261	79.79212015	0	psample10	CT	1
1607903-32RE1	B1	1			0.652	0.1305796	2.094894509	0.3038281		15607-1.RAW	13:41:39	72.05965909	1146.248106	166.8008049	0	psample10	OK	1
1607903-33RE1	B2	1			0.652	0.1903112	3.627193285	0.3154183		15608-1.RAW	13:52:10	104.7239335	1984.187926	173.1389205	0	psample10	OK	1
1607903-37RE1	B3	1			0.652	0.1595823	0.244909504	0.0560221		15609-1.RAW	14:02:41	87.91979685	134.581108	31.28773674	0	psample10	OK	1
1608071-01RE1	B4	1			0.652	0.1803649	1.106749634	0.0650017		15610-1.RAW	14:13:11	99.2847914	605.8796402	36.19827178	0	psample10	CT	1
1608071-02RE1	B5	1			0.652	0.2390724	4.117763667	0.7122322		15611-1.RAW	14:23:42	131.3890625	2252.457055	390.13227	0	psample10	CT	1
WS	A1	1			0.652	0.1178372	0.037222988	0.0092784		15612-1.RAW	14:34:13	65.09142992	21.00743371	5.725875947	0	psample10	CT	1
1608071-05RE1	B6	1			0.652	0.2237768	3.006015636	1.3533587		15613-1.RAW	14:44:43	123.0246673	1644.496023	740.7381806	0	psample10	CT	1
1608071-06RE1	B7	1			0.652	0.2828571	2.415809882	0.1486781		15614-1.RAW	14:55:14	155.3327922	1321.741146	81.95681818	0	psample10	CT	1
1608071-07RE1	B8	1			0.652	0.2347577	1.636687512	0.1625317		15615-1.RAW	15:05:45	129.0295851	895.6769413	89.53267045	0	psample10	CT	1
1608071-11RE1	B9	1			0.652	0.1659118	1.097807604	0.3286681		15616-1.RAW	15:16:16	91.38108551	600.989678	180.3846143	0	psample10	CT	1
1608072-02RE1	B10	1			0.652	0.0991405	0.896231611	0.1382815		15617-1.RAW	15:26:46	54.86708877	490.7575521	76.27140152	0	psample10	OK	1
SEQ-CCV2	B11	1			0.652	1.0443842	0.513291706	0.4349132	102.79	15618-1.RAW	15:37:17	571.7749855	281.3463068	238.4849043	0	psample10	CT	1
SEQ-CCB2	B12	1			0.652	0.0912016	0.015197537	0.0686725	0.00	15619-1.RAW	15:47:48	50.52571023	8.962784091	38.20563447	0	psample10	CT	1
1607903-34RE1	B13	10			0.652	1.1478524	22.11688282	1.2667576		15620-1.RAW	15:58:19	63.42246686	1210.116951	69.92481061	0	psample10	CT	1
1607903-35RE1	B14	10			0.652	1.107678	10.89567942	0.9637012		15621-1.RAW	16:08:49	61.22552083	596.4838068	53.35213068	0	psample10	CT	1
1607903-36RE1	B15	10			0.652	1.2451839	24.55910483	1.341017		15622-1.RAW	16:19:20	68.74505208	1343.670218	73.98570076	0	psample10	CT	1
1607903-38RE1	B16	10			0.652	0.7731809	2.254363712	0.7894297		15623-1.RAW	16:29:51	42.93349905	123.932197	43.82206439	0	psample10	OK	1
1607903-39RE1	B17	10			0.652	0.9658105	9.465718299	1.2049532		15624-1.RAW	16:40:22	53.46747492	518.2861742	66.54502841	0	psample10	CT	1
1607903-43RE1	B18	10			0.652	1.4663663	18.72996732	0.8988227		15625-1.RAW	16:50:52	80.84044373	1024.902893	49.80423769	0	psample10	CT	1
1607903-44RE1	B19	10			0.652	0.9653717	21.59486121	1.4972181		15626-1.RAW	17:01:23	53.44348321	1181.570123	82.52758049	0	psample10	CT	1
1608071-03RE1	B20	10			0.652	0.7522566	5.131876326	1.2571372		15627-1.RAW	17:11:54	41.78925189	281.2893939	69.39872159	0	psample10	OK	1
1608071-04RE1	B21	10			0.652	0.8054459	10.04816026	1.5904719		15628-1.RAW	17:22:25	44.69791667	550.1370975	87.62717803	0	psample10	CT	1
1608071-10RE1	C1	10			0.652	0.7031068	8.525803379	1.2645644		15629-1.RAW	17:32:54	39.10148852	466.8867898	69.80487689	0	psample10	OK	1
SEQ-CCV3	C2	1			0.652	0.9220473	0.519333525	0.4634196	104.00	15630-1.RAW	17:43:25	504.8749044	284.6502841	254.0736653	0	psample10	CT	1
SEQ-CCB3	C3	1			0.652	0.0669938	0.008269317	0.0692906	0.00	15631-1.RAW	17:53:56	37.25713164	5.174076705	38.5436553	0	psample10	OK	1
1608071-02RE2	C4	10			0.652	0.8990482	8.710142483	2.0144737		15632-1.RAW	18:04:26	49.81657197	476.9674006	110.8137784	0	psample10	CT	1
F609212-MS5	C5	20			0.652	1.7950706	40.11143579	2.0247434	802.23	15633-1.RAW	18:14:57	49.73383762	1097.401847	56.01368371	0	psample10	CT	1
F609212-MSD5	C6	20			0.652	1.6427365	31.270534	2.0454621		15634-1.RAW	18:25:28	45.56863163	855.6688447	56.58018466	0	psample10	CT	1
SEQ-CCV4	C7	1			0.652	0.3918265	0.711379108	0.594791	142.45	15635-1.RAW	18:35:58	214.9228966	389.6706913	325.9142999	0	psample10	CT	1
SEQ-CCB4	C8	1			0.652	0.0644002	0.015841634	0.0768882	0.00	15636-1.RAW	18:46:29	35.86934219	9.31500947	42.69839015	0	psample10	CT	1
SEQ-CCV5	C19	1			0.652	0.5636119	0.600396279	0.5002805	120.23	15637-1.RAW	18:57:00	308.8639751	328.9795691	274.2311244	0	psample10	CT	1
SEQ-CCV6	C20	1			0.652	0.4295225	0.632594548	0.5319018	126.68	15638-1.RAW	19:07:30	235.5370028	346.5872396	291.5232836	0	psample10	CT	1


SEQ-CCB5 C21 1 0.652 0.0648255 0.008420622 0.0783943 0.00 15639-1.RAW 19:18:01 36.10189394 5.256818182 43.52201705 0 psample10 OK 1

Failing Data Report - 6I09004

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
1608071-02RE1	MHg-CVAFS-S-MeClExt	5.77	0.143				ng/g						FAIL-OVER	PASS	E
F609212-MS3	MHg-CVAFS-S-MeClExt	62.39	0.920		31.69	18.288	ng/g	168	65.00	130.00			FAIL-OVER	FAIL-MS	B
F609212-MSD3	MHg-CVAFS-S-MeClExt	45.45	0.885	62.39	31.69	17.590	ng/g	78.3	65.00	130.00	72.8	35.00	FAIL-OVER	FAIL-MSD (RPD)	E
F609212-MS5	MHg-CVAFS-S-MeClExt	73.21	3.68		31.69	18.288	ng/g	227	65.00	130.00			PASS-OVER	FAIL-MS	AM-02
F609212-MSD5	MHg-CVAFS-S-MeClExt	54.88	3.54	73.21	31.69	17.590	ng/g	132	65.00	130.00	53.1	35.00	PASS-OVER	FAIL-MSD (Rec. and RPD)	AM-02
6I09004-CCV4	MHg-CVAFS-S-MeClExt	0.711	0.201			0.50049	ng/L	142	67.00	133.00			PASS-OVER	FAIL-CCV	DNR

 Analyst Reviewed By _____ Date 9/30/16



 Peer Reviewed By _____ Date 9-30-16

ANALYSIS SEQUENCE

6I09004

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/8/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6I09004-IBL1	QC	1			
6I09004-CAL1	QC	2	1604163		
6I09004-CAL2	QC	3	1604164		
6I09004-CAL3	QC	4	1604165		
6I09004-CAL4	QC	5	1604166		
6I09004-CAL5	QC	6	1604167		
6I09004-ICV1	QC	7	1605079		
6I09004-ICB1	QC	8			
F609212-BLK4	QC	9			
F609212-BLK5	QC	10			
F609212-BLK6	QC	11			
F609212-BS2	QC	12			
F609212-BSD2	QC	13			
F609212-DUP2	QC	14			
F609212-MS3	QC	15			
F609212-MSD3	QC	16			
F609212-MS4	QC	17			
F609212-MSD4	QC	18			
6I09004-CCV1	QC	19	1605079		
6I09004-CCB1	QC	20			
1607903-32RE1	MHg-CVAFS-S-MeClExt	21			Added 9/8/2016 by DMH
1607903-33RE1	MHg-CVAFS-S-MeClExt	22			Added 9/8/2016 by DMH
1607903-37RE1	MHg-CVAFS-S-MeClExt	23			Added 9/8/2016 by DMH
1608071-01RE1	MHg-CVAFS-S-MeClExt	24			Added 9/8/2016 by DMH
1608071-02RE1	MHg-CVAFS-S-MeClExt	25			Added 9/8/2016 by DMH
1608071-05RE1	MHg-CVAFS-S-MeClExt	26			Added 9/8/2016 by DMH
1608071-06RE1	MHg-CVAFS-S-MeClExt	27			Added 9/8/2016 by DMH
1608071-07RE1	MHg-CVAFS-S-MeClExt	28			Added 9/8/2016 by DMH
1608071-11RE1	MHg-CVAFS-S-MeClExt	29			Added 9/8/2016 by DMH
1608072-02RE1	MHg-CVAFS-S-MeClExt	30			Added 9/8/2016 by DMH
6I09004-CCV2	QC	31	1605079		
6I09004-CCB2	QC	32			
1607903-34RE1	MHg-CVAFS-S-MeClExt	33			Added 9/8/2016 by DMH
1607903-35RE1	MHg-CVAFS-S-MeClExt	34			Added 9/8/2016 by DMH
1607903-36RE1	MHg-CVAFS-S-MeClExt	35			Added 9/8/2016 by DMH

Due Date: 9/30/2016

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 9/8/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609212-BLK1	Blank	0.5	250					
F609212-BLK2	Blank	0.5	250					
F609212-BLK3	Blank	0.5	250					
F609212-BLK4	Blank	0.5	250					
F609212-BLK5	Blank	0.5	250					
F609212-BLK6	Blank	0.5	250					
F609212-BS1	Blank Spike	0.5	250	1506872	25			
F609212-BS2	LCS	0.5	250	1506872	25			Added 9/9/2016 by RN
F609212-BSD1	Blank Spike dup	0.5	250	1506872	25			
F609212-BSD2	LCS Dup	0.5	250	1506872	25			Added 9/9/2016 by RN
F609212-DUP1	Duplicate [1607903-43RE1]	0.523	250					
F609212-DUP2	Duplicate [1607903-43RE1]	0.523	250					Added 9/9/2016 by RN
F609212-MS1	Matrix Spike [1607903-43RE1]	0.554	250	1506872	25			
F609212-MS2	Matrix Spike [1608071-06RE1]	0.533	250	1506872	25			
F609212-MS3	Matrix Spike [1607903-43RE1]	0.554	250	1506872	25			Added 9/9/2016 by RN
F609212-MS4	Matrix Spike [1608071-06RE1]	0.533	250	1506872	25			Added 9/9/2016 by RN
F609212-MS5	Matrix Spike [1607903-43RE1]	0.554	250	1506872	25			Added 9/9/2016 by RN
F609212-MSD1	Matrix Spike Dup [1607903-43RE1]	0.576	250	1506872	25			
F609212-MSD2	Matrix Spike Dup [1608071-06RE1]	0.561	250	1506872	25			
F609212-MSD3	Matrix Spike Dup [1607903-43RE1]	0.576	250	1506872	25			Added 9/9/2016 by RN
F609212-MSD4	Matrix Spike Dup [1608071-06RE1]	0.561	250	1506872	25			Added 9/9/2016 by RN
F609212-MSD5	Matrix Spike Dup [1607903-43RE1]	0.576	250	1506872	25			Added 9/9/2016 by RN

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Date: 9/30/2016

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/8/2016

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1506872	MHg New Primary 100 ng/mL spike	03-Nov-16 00:00	1600451	Boiling Chips for AFS prep	14-Dec-16 00:00
			1604517	Ethylating Agent (For Methyl Mercury Analysis)	07-Feb-17 00:00
			1604614	Acetate Buffer	15-Feb-17 00:00
			1604634	Dichloromethane	15-Aug-19 00:00
			1604778	CuSO ₄	16-Oct-16 00:00
			1605015	Acid Bromide	30-Sep-16 00:00

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 9/8/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607903-32	W-65-Mid_072516_SED_03	0.541	250	-	-	-		
1607903-32RE1	W-65-Mid_072516_SED_03	0.541	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-33	ES-15_072716_SED_03	0.526	250	-	-	-		
1607903-33RE1	ES-15_072716_SED_03	0.526	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-34	SVE-01_072716_SED_03	0.589	250	-	-	-		
1607903-34RE1	SVE-01_072716_SED_03	0.589	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-35	OL-01_072716_SED_03	0.587	250	-	-	-		
1607903-35RE1	OL-01_072716_SED_03	0.587	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-36	W17-N_072116_SED_03	0.576	250	-	-	-		
1607903-36RE1	W17-N_072116_SED_03	0.576	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-37	ADD-01_072116_SED_03	0.558	250	-	-	-		
1607903-37RE1	ADD-01_072116_SED_03	0.558	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-38	ADD-02_072216_SED_03	0.575	250	-	-	-		
1607903-38RE1	ADD-02_072216_SED_03	0.575	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-39	W-17-Low_072616_SED_03_DUP	0.538	250	-	-	-		
1607903-39RE1	W-17-Low_072616_SED_03_DUP	0.538	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-43	BO-04-02_072616_SED_03	0.597	250	QC	-	-	MS/MSD	
1607903-43RE1	BO-04-02_072616_SED_03	0.597	250	QC	-	-	MS/MSD Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-44	BO-04-02_072616_SED_03_DUP	0.584	250	-	-	-		

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Date: 9/30/2016

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 9/8/2016

1607903-44RE1	BO-04-02_072616_SED_03_DUP	0.584	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-01	ES-04_072816_SED_03	0.521	250	-	-	-		
1608071-01RE1	ES-04_072816_SED_03	0.521	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-02	E-01-01_072816_SED_03	0.564	250	-	-	-		
1608071-02RE1	E-01-01_072816_SED_03	0.564	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-02RE2	E-01-01_072816_SED_03	0.564	250	-	-	-	Added 9/9/2016 by RN	Added 9/9/2016 by RN
1608071-03	E-01-03_072816_SED_03	0.543	250	-	-	-		
1608071-03RE1	E-01-03_072816_SED_03	0.543	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-04	E-01-04_072816_SED_03	0.594	250	-	-	-		
1608071-04RE1	E-01-04_072816_SED_03	0.594	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-05	ES-03_072816_SED_03	0.519	250	-	-	-		
1608071-05RE1	ES-03_072816_SED_03	0.519	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-06	ES-FP_072816_SED_03	0.525	250	QC	-	-	MS/MSD	
1608071-06RE1	ES-FP_072816_SED_03	0.525	250	QC	-	-	MS/MSD Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-07	ES-FP_072816_SED_03_DUP	0.572	250	-	-	-		
1608071-07RE1	ES-FP_072816_SED_03_DUP	0.572	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-10	MMPOLY_072916_SED_03	0.58	250	-	-	-		
1608071-10RE1	MMPOLY_072916_SED_03	0.58	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-11	L9-45_072816_SED_03	0.597	288	-	-	-		
1608071-11RE1	L9-45_072816_SED_03	0.597	288	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-12	BO-04_072516_SED_03_DUP	0.553	288	-	-	-		

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Date: 9/30/2016

PREPARATION BENCH SHEET

F609212

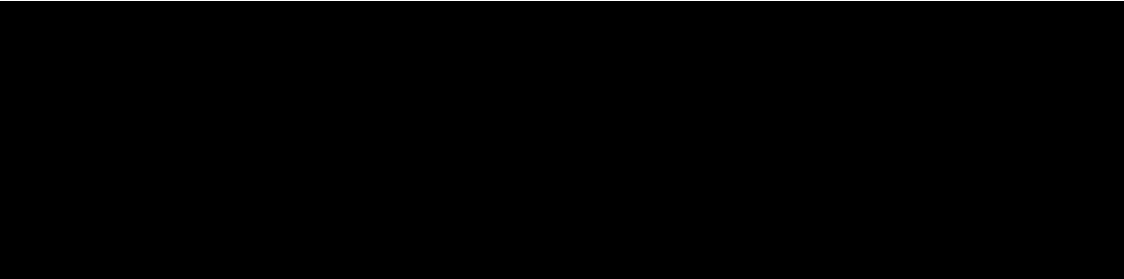
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 9/8/2016

1608072-02RE1	BO-04_072516_SED_03_DUP	0.553	288	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
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PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

for 9/8/16
2700

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/8/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609212-BLK1	Blank	0.5	250					
F609212-BLK2	Blank	0.5	250					
F609212-BLK3	Blank	0.5	250					
F609212-BLK4	Blank 1x	0.5	288					
F609212-BLK5	Blank 1x	0.5	288					
F609212-BLK6	Blank 1x	0.5	288					
F609212-BS1	Blank Spike	0.5	250	1506872	25			
F609212-BSD1	Blank Spike dup	0.5	250	1506872	25			
F609212-DUP1	Duplicate [1607903-43] Sx	0.523	250					as DUP2
F609212-MS1	Matrix Spike [1607903-43] Sx → 20x	0.554	250	1506872	25			as MS3 9MSS
F609212-MS2	Matrix Spike [1608071-06] Sx → 20x	0.533	250	1506872	25			as MS4
F609212-MSD1	Matrix Spike Dup [1607903-43] Sx → 20x	0.576	250	1506872	25			as MSD3 + MSD5
F609212-MSD2	Matrix Spike Dup [1608071-06] Sx	0.561	250	1506872	25			as MSD4

<u>Standard ID(s):</u> 1506872	<u>Description:</u> MHg New Primary 100 ng/mL spike	<u>Expiration:</u> 03-Nov-16 00:00	<u>Reagent ID(s):</u> 1600451 1604517 1604614 1604634 1604778 1605015	<u>Description:</u> Boiling Chips for AFS prep Ethylating Agent (For Methyl Mercury Analysis) Acetate Buffer Dichloromethane CuSO ₄ Acid Bromide	<u>Expiration:</u> 14-Dec-16 00:00 07-Feb-17 00:00 15-Feb-17 00:00 15-Aug-19 00:00 16-Oct-16 00:00 30-Sep-16 00:00
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BS2/BSD2 runs of
BS1/BSD1 @ Sx

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/8/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607903-32	W-65-Mid_072516_SED_03 <i>12 9/8/16</i>	0.541	250	-	-	-		
1607903-32RE1	W-65-Mid_072516_SED_03 <i>10x</i>	0.541	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-33	ES-15_072716_SED_03	0.526	250	-	-	-		
1607903-33RE1	ES-15_072716_SED_03 <i>10x</i>	0.526	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-34	SVE-01_072716_SED_03	0.589	250	-	-	-		
1607903-34RE1	SVE-01_072716_SED_03 <i>10x</i>	0.589	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-35	OL-01_072716_SED_03	0.587	250	-	-	-		
1607903-35RE1	OL-01_072716_SED_03 <i>10x</i>	0.587	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-36	W17-N_072116_SED_03	0.576	250	-	-	-		
1607903-36RE1	W17-N_072116_SED_03 <i>10x</i>	0.576	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-37	ADD-01_072116_SED_03	0.558	250	-	-	-		
1607903-37RE1	ADD-01_072116_SED_03 <i>10x</i>	0.558	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-38	ADD-02_072216_SED_03	0.575	250	-	-	-		
1607903-38RE1	ADD-02_072216_SED_03 <i>10x</i>	0.575	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-39	W-17-Low_072616_SED_03_DUP	0.538	250	-	-	-		
1607903-39RE1	W-17-Low_072616_SED_03_DUP <i>10x</i>	0.538	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-43	BO-04-02_072616_SED_03	0.597	250	QC	-	-	MS/MSD	
1607903-43RE1	BO-04-02_072616_SED_03 <i>10x</i>	0.597	250	QC	-	-	MS/MSD Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-44	BO-04-02_072616_SED_03_DUP	0.584	250	-	-	-		

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Date: 9/30/2016

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/8/2016

1607903-44RE1	BO-04-02_072616_SED_03_DUP <i>10x</i>	0.584	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-01	ES-04_072816_SED_03	0.521	250	-	-	-		
1608071-01RE1	ES-04_072816_SED_03 <i>1x</i>	0.521	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-02	E-01-01_072816_SED_03	0.564	250	-	-	-		
1608071-02RE1	E-01-01_072816_SED_03 <i>1x → 10x</i>	0.564	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-03	E-01-03_072816_SED_03	0.543	250	-	-	-		
1608071-03RE1	E-01-03_072816_SED_03 <i>10x</i>	0.543	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-04	E-01-04_072816_SED_03	0.594	250	-	-	-		
1608071-04RE1	E-01-04_072816_SED_03 <i>10x</i>	0.594	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-05	ES-03_072816_SED_03	0.519	250	-	-	-		
1608071-05RE1	ES-03_072816_SED_03 <i>1x</i>	0.519	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-06	ES-FP_072816_SED_03	0.525	250	QC	-	-	MS/MSD	
1608071-06RE1	ES-FP_072816_SED_03 <i>1x</i>	0.525	250	QC	-	-	MS/MSD Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-07	ES-FP_072816_SED_03_DUP	0.572	250	-	-	-		
1608071-07RE1	ES-FP_072816_SED_03_DUP <i>1x</i>	0.572	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-10	MMPOLY_072916_SED_03	0.58	250	-	-	-		
1608071-10RE1	MMPOLY_072916_SED_03 <i>10x</i>	0.58	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-11	L9-45_072816_SED_03	0.597	288	-	-	-		
171-11RE1	L9-45_072816_SED_03 <i>1x</i>	0.597	288	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
172-02	BO-04_072516_SED_03_DUP	0.553	288	-	-	-		
172-02RE1	BO-04_072516_SED_03_DUP <i>1x → 10x</i>	0.553	288	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH

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Date: 9/30/2016

*DMH
9.30.16*

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/8/2016



Methyl Mercury Sediment Preparation : EFAFS-T-AFS-SOP5134

Technician: Dufren Batch#: F609212 Date: 9/11/16

Heat Block 45°C (nitrogen purge for 30 minutes). Balance#: 10 Calibrated? Yes No

Date of purging:	Actual Temp (raw) °C	W/CF °C	Hot Block Unit # (10 or 11)	Date of purging:	Actual Temp (raw) °C	W/CF °C	Hot Block Unit # (10 or 11)
9/2/16				9/8/16 re-purges			
1 st time in: 10:20	10:20	49.8	11	1 st time in: 8:30	49.0	49.4	10
1 st time out: 10:50	10:50	49.8	11	1 st time out: 9:10	50.2	50.6	10
2 nd time in: 10:55	10:55	49.9	10	2 nd time in: 9:05	49.7	50.1	11
2 nd time out: 11:25	11:25	50.1	10	2 nd time out: 9:35	49.9	50.3	11
3 rd time in: 11:30	11:30	50.2	11	3 rd time in: 9:40	49.8	50.2	10
3 rd time out: 12:05	12:05	50.5	11	3 rd time out: 10:10	50.5	50.7	10
4 th time in: 12:10	12:10	50.2	10	4 th time in: 10:15	50.3	50.7	11
4 th time out: 12:40	12:40	50.3	10	4 th time out: 10:45	50.1	50.5	11

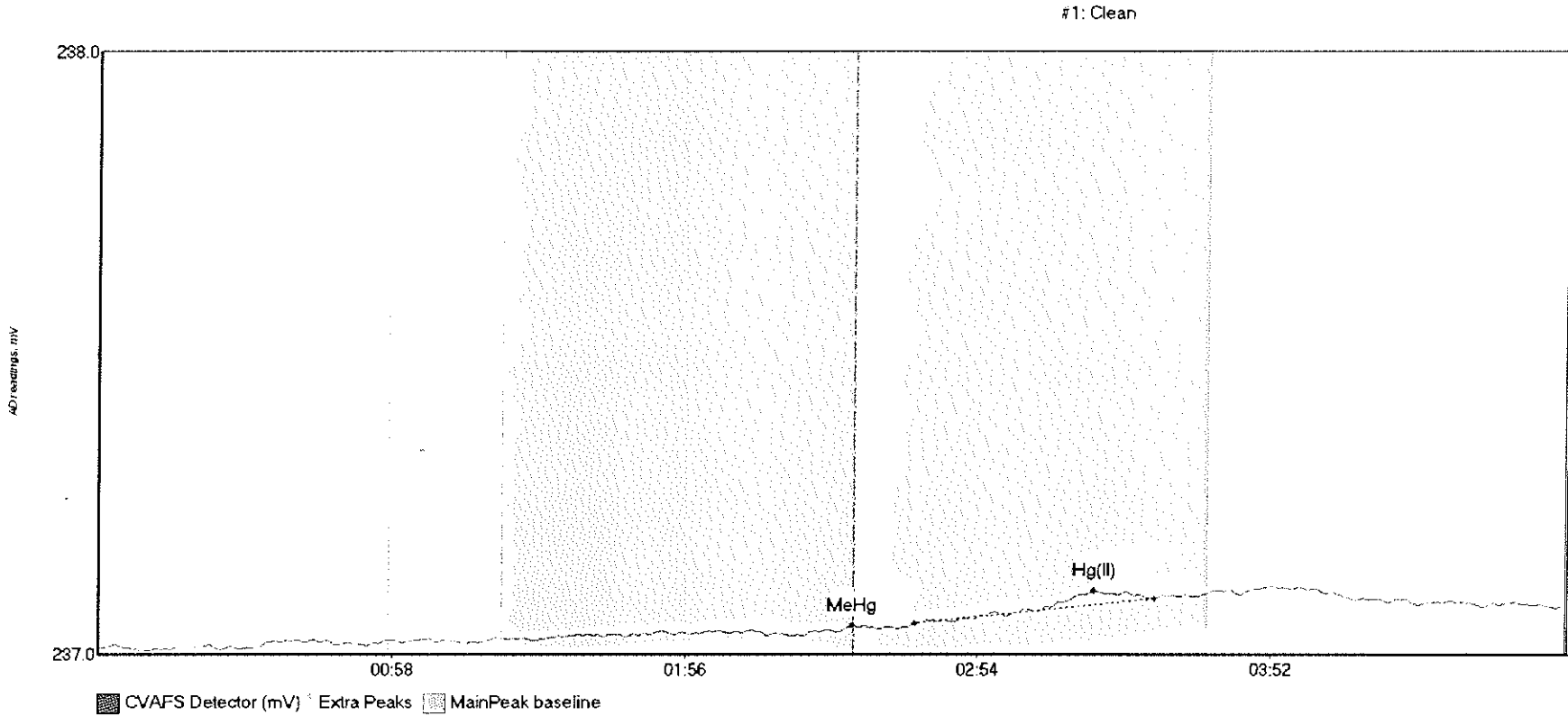
Final vol.: 50 ml (LIMS ID: N/A) Spike vol.: 25 µl (LIMS ID: 15068782)

Spike Witness: DM 9-2-16 (initial and date)

Acid Bromide LIMS ID: 1605015 Pipette SN#: CT17087 Calibration Date: 8/30/16
 CH₂Cl₂ LIMS ID: 1604634 Pipette SN#: 624486 Calibration Date: 8/30/16
 CuSO₄ LIMS ID: 1604778 Dispenser #: 12391647 Calibrated? Yes No
 Other Acid LIMS ID: N/A Boiling Chip lot # 1600451

Centrifuge Tube Lot #: 49308 J237721-6560

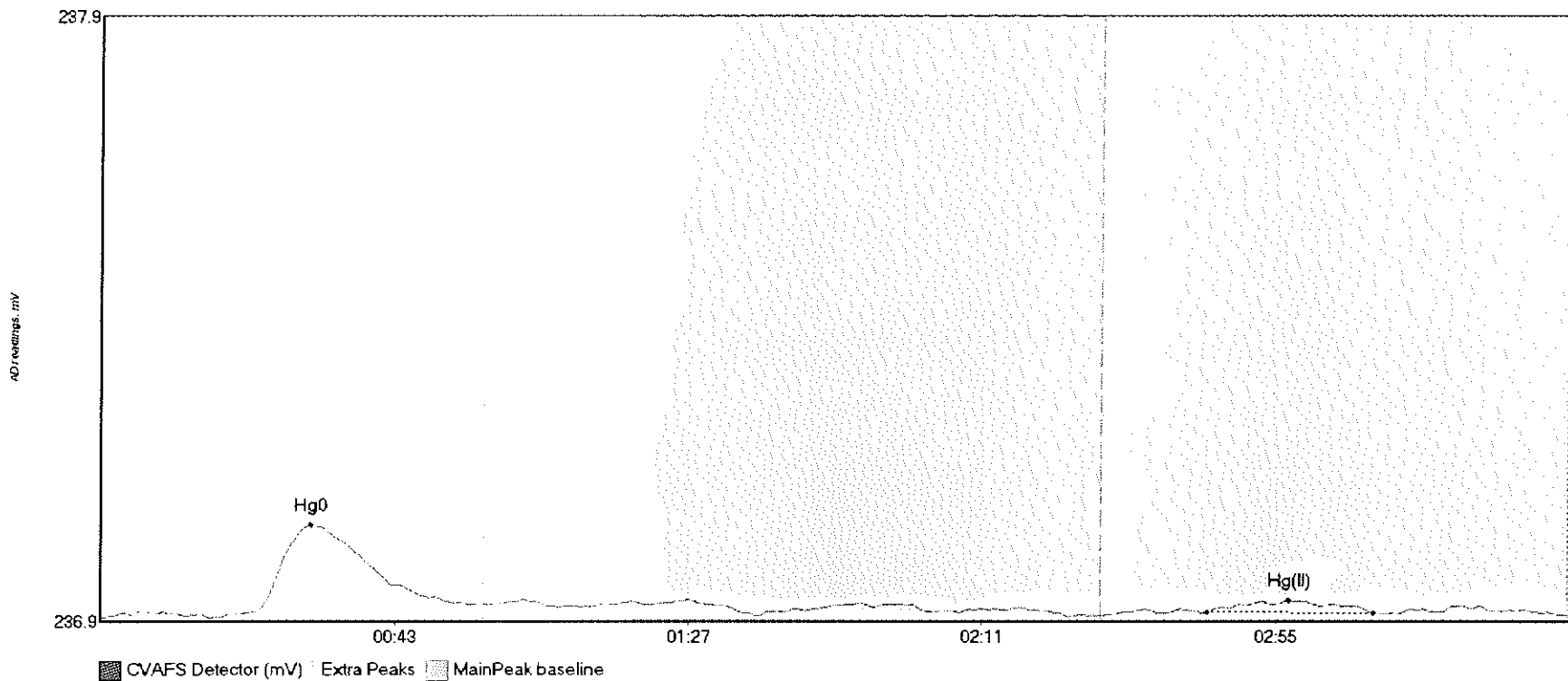
Vial #	Sample ID Number	Sample Size <input type="checkbox"/> ml <input checked="" type="checkbox"/> g	Vial #	Sample ID Number	Sample Size <input type="checkbox"/> ml <input checked="" type="checkbox"/> g	Comments
1	F608071		23	1608071 -02	0.564	Thermometer SN:
2	F609212 Blank1	0.549	24	1608071 -03	0.543	140418015
3	F609212 Blank2	0.507	25	1608071 -04	0.594	Dupl. MS1, MS1
4	F609212 Blank3	0.514	26	1608071 -05	0.519	source
5	F609212 B51	0.503	27	1608071 -06	0.525	1607903-43
6	F609212 B501	0.499	28	1608071 -07	0.572	MS2, MS02
7	F609212 M Dupl	0.523	29	1608071 -10	0.580	1608071-06
8	F609212 MS1	0.554	30	1608071 -11	0.597	1607903-35
9	F609212 MS01	0.576	31	1608072 -02	0.553	35 - 0.587g
10	F609212 MS2	0.533	32			weigh samples
11	F609212 MS02	0.561	33			on 9/11/16
12	1607903-32	0.541	34			9/11/16
13	1607903-33	0.526	35			9/11/16
14	1607903-34	0.589	36			Re-purged samples
15	1607903 0.589g-35	0.587	37			on 9/8/16
16	1607903-36	0.576	38			
17	1607903-37	0.558	39			
18	1607903-38	0.575	40			
19	1607903-39	0.538	41			
20	1607903-43	0.597	42			
21	1607903-44	0.584	43			
22	1608071-01	0.521	44			



ALL CHROMATOGRAMS REVIEWED 9-30-16 DMW

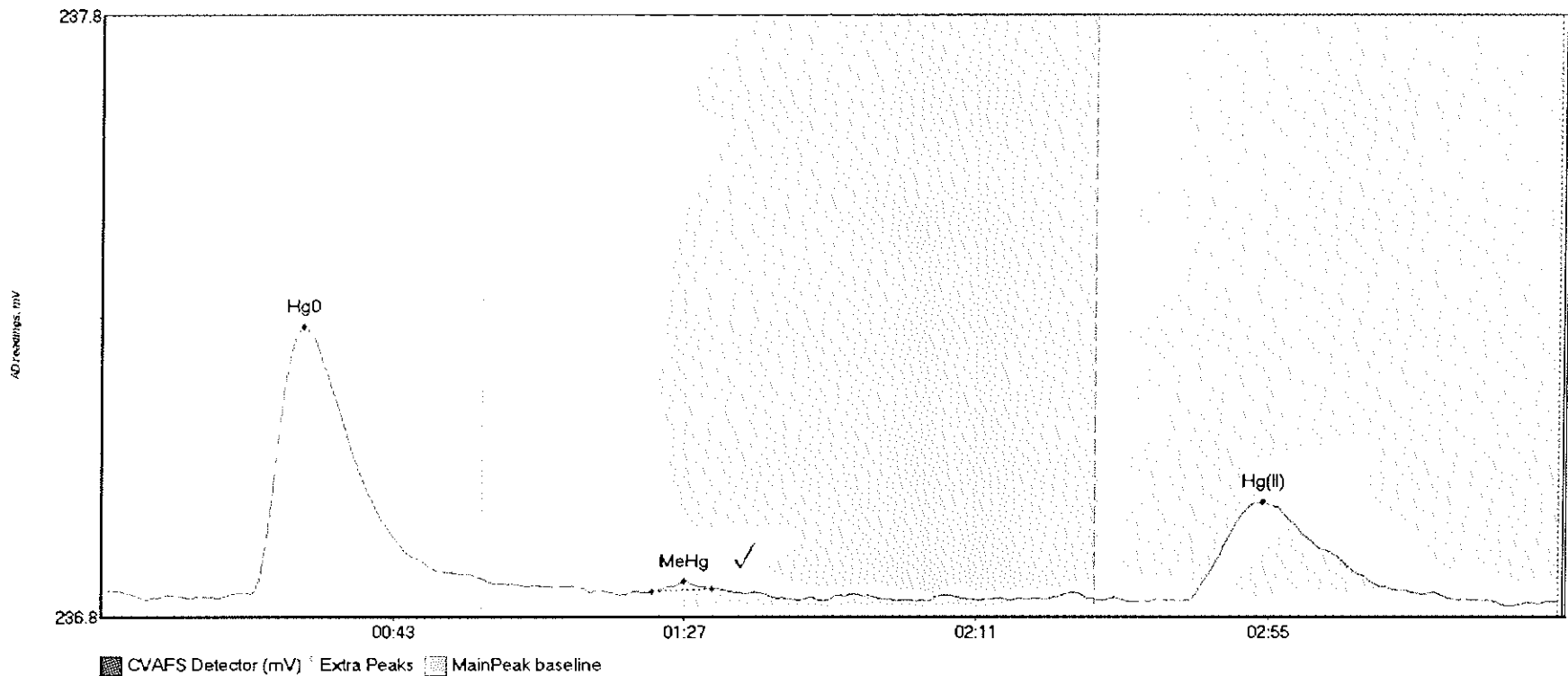
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
Clean MeHg	0.153	139.9	150.0	237.05	237.07	149.7	0.017	CT	237.0287	0.00	0.07	
Clean Hg(II)	3.160	162.1	209.5	237.07	237.11	197.7	0.054	OK	237.0287	0.00	0.07	

#2: WS



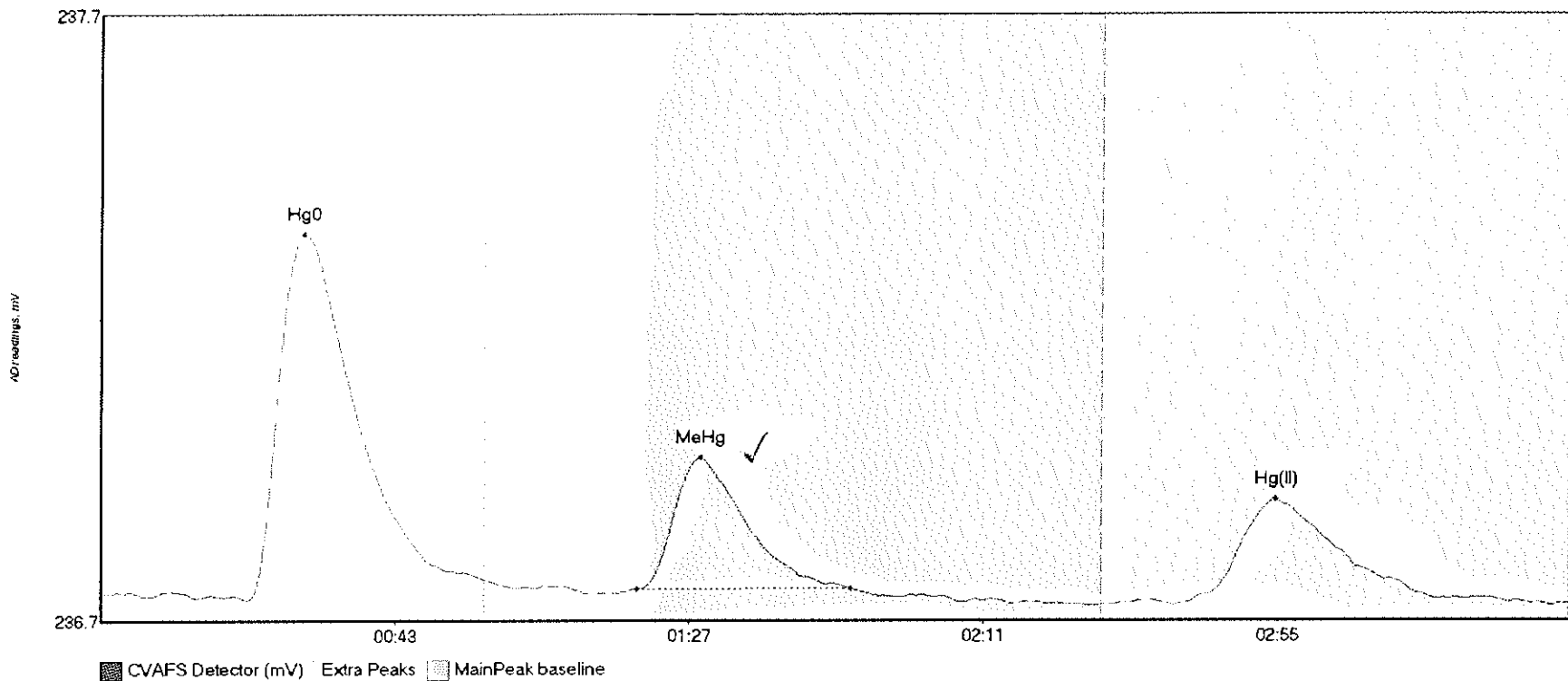
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	20.486	19.0	55.8	236.94	236.96	31.5	0.149	OK	236.9390	0.00	0.00	
WS Hg(II)	3.238	165.7	190.8	236.95	236.95	178.0	0.020	OK	236.9390	0.00	0.00	116

#3: SEQ-IBL1



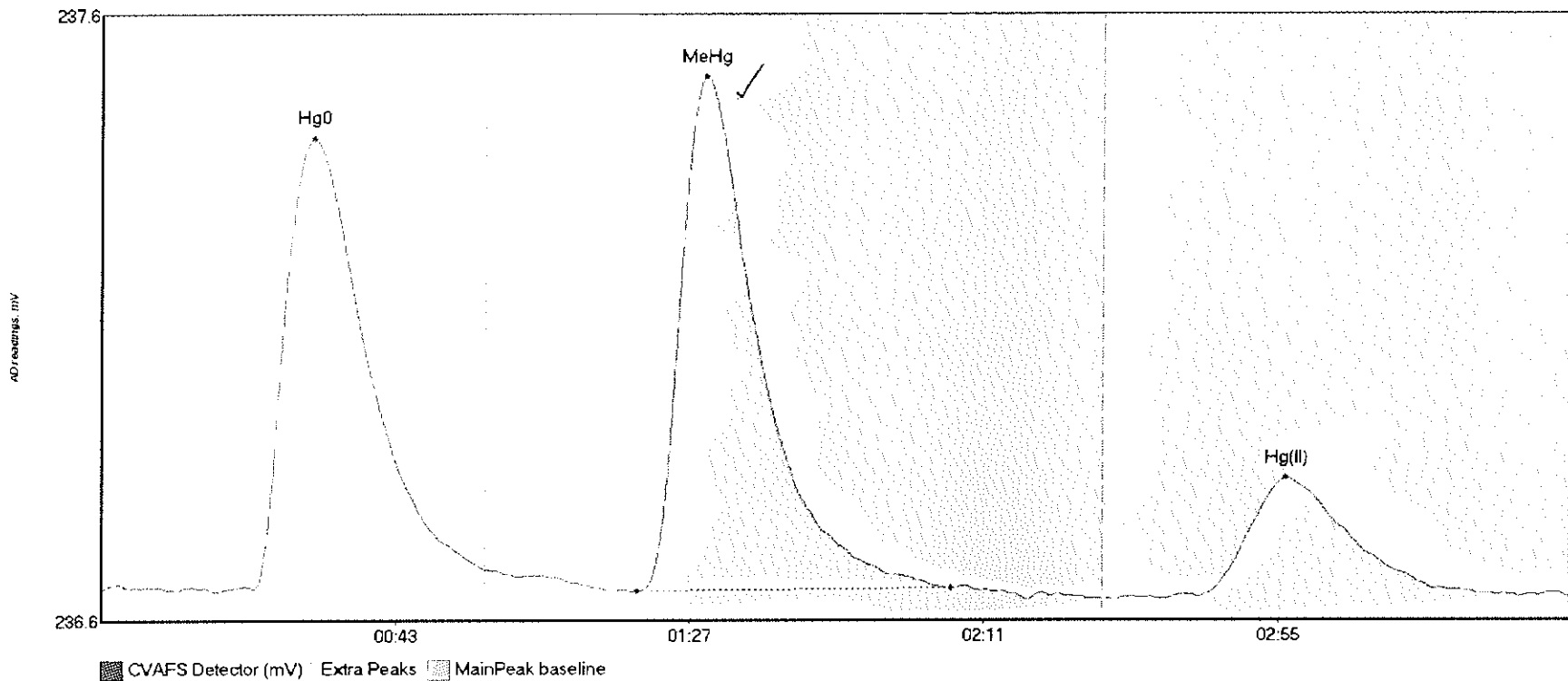
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-IBL1 Hg0	55.853	22.5	57.5	236.87	236.89	30.5	0.443	CT	236.8658	0.00	-0.01	
SEQ-IBL1 MeHg	0.652	83.1	92.2	236.87	236.87	88.0	0.017	OK	236.8658	0.00	-0.01	
SEQ-IBL1 Hg(II)	27.878	163.8	204.8	236.85	236.86	175.2	0.163	OK	236.8658	0.00	-0.01	

#4: SEQ-CAL1



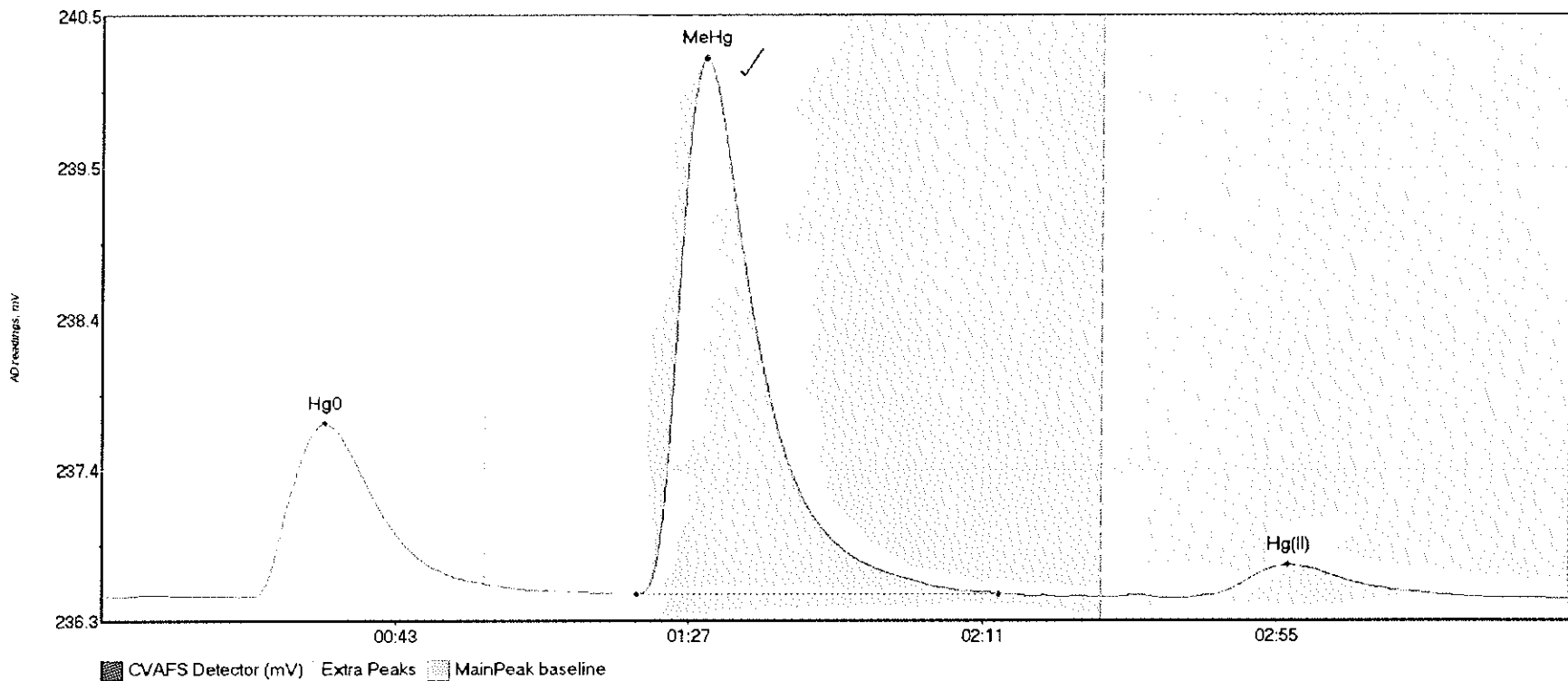
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL1 Hg0	77.587	21.8	57.5	236.75	236.78	30.3	0.604	CT	236.7585	0.00	-0.02	
SEQ-CAL1 MeHg	26.646	80.3	112.1	236.76	236.77	89.8	0.218	OK	236.7585	0.00	-0.02	
SEQ-CAL1 Hg(II)	28.648	162.7	210.8	236.74	236.74	175.7	0.169	OK	236.7585	0.00	-0.02	

#5: SEQ-CAL2



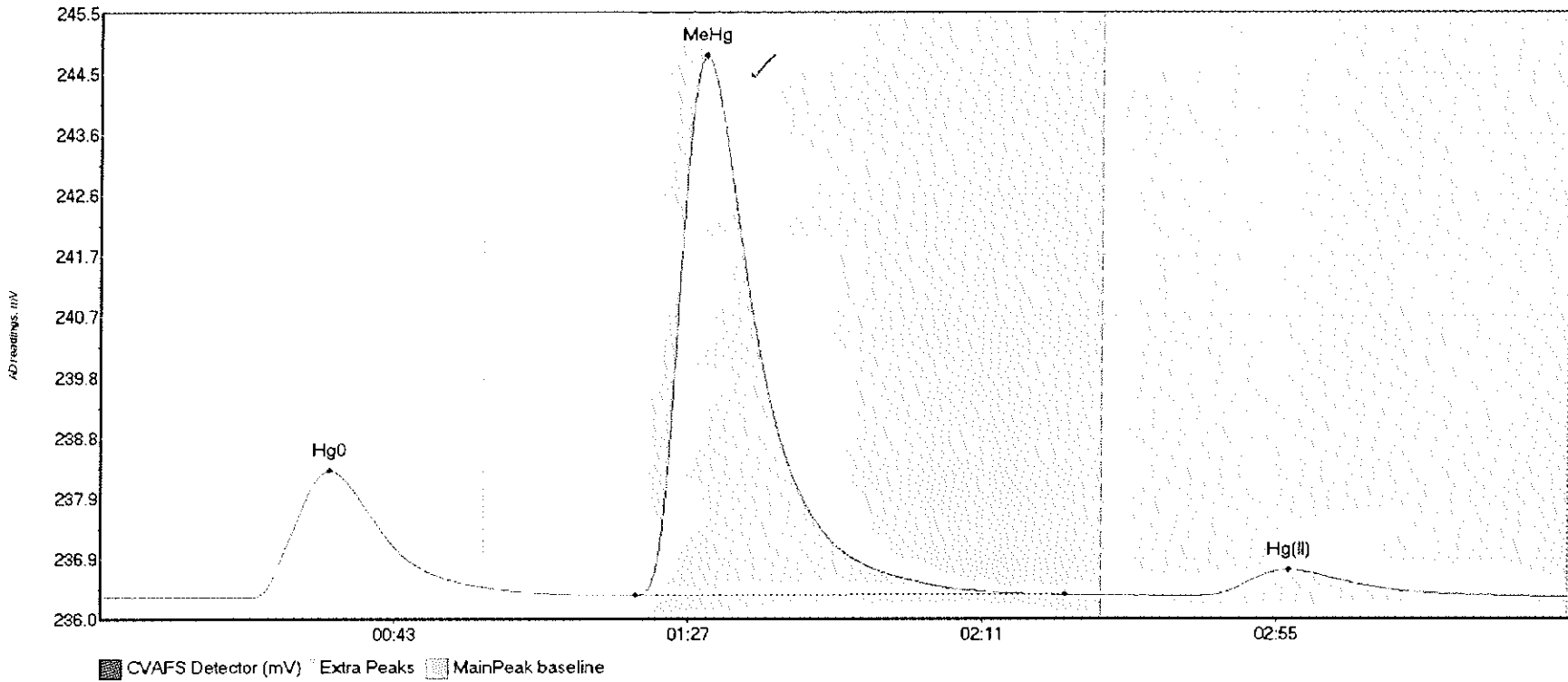
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL2 Hg0	101.485	23.0	57.5	236.62	236.66	31.9	0.744	CT	236.6266	0.00	-0.01	
SEQ-CAL2 MeHg	115.110	80.1	127.2	236.62	236.63	90.5	0.850	OK	236.6266	0.00	-0.01	
SEQ-CAL2 Hg(II)	33.577	164.2	212.1	236.61	236.61	177.2	0.196	OK	236.6266	0.00	-0.01	

#6: SEQ-CAL3



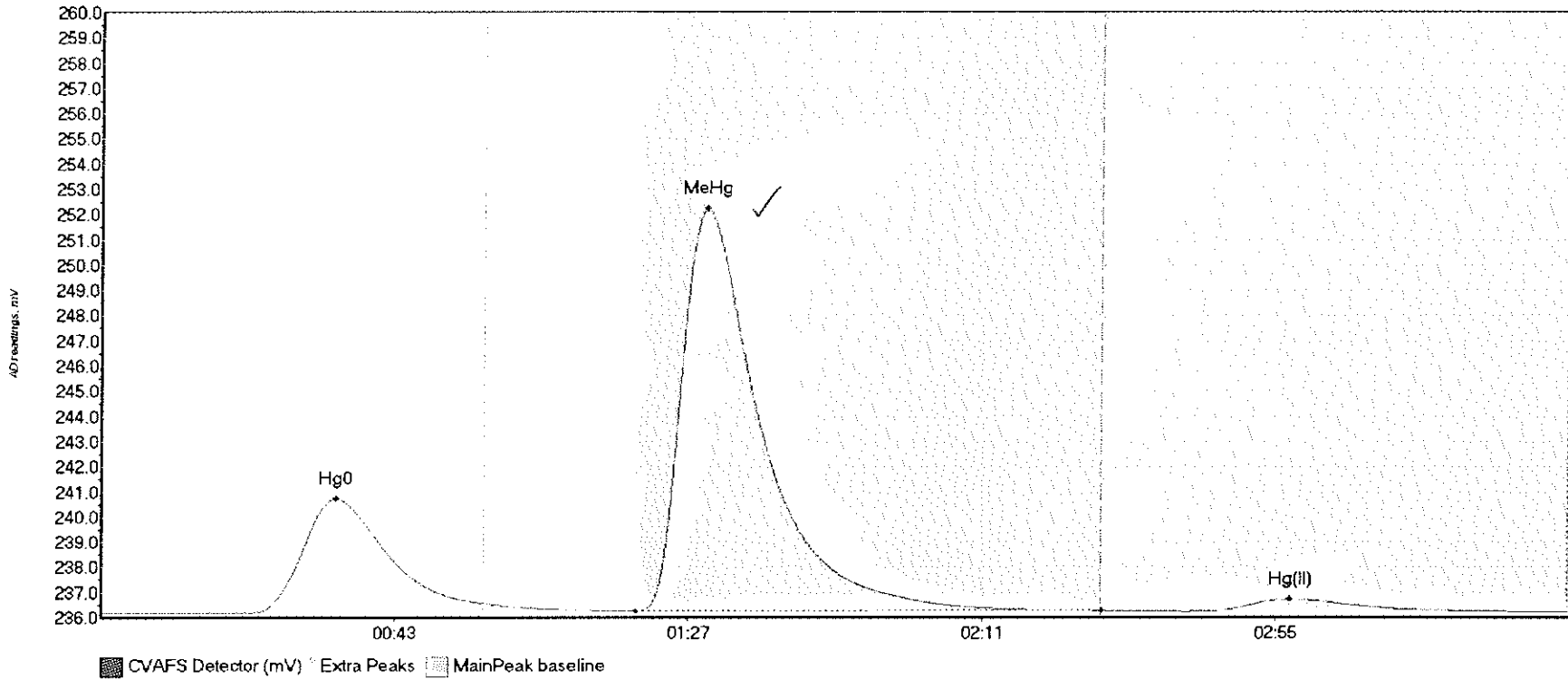
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
SEQ-CAL3 Hg0	169.763	22.4	57.5	236.47	236.56	33.4	1.207	CF	236.4709	0.00	-0.02	
SEQ-CAL3 MeHg	511.611	80.1	134.5	236.48	236.49	90.5	3.720	OK	236.4709	0.00	-0.02	
SEQ-CAL3 Hg(II)	39.356	162.0	204.7	236.46	236.47	177.8	0.228	OK	236.4709	0.00	-0.02	

#7: SEQ-CAL4



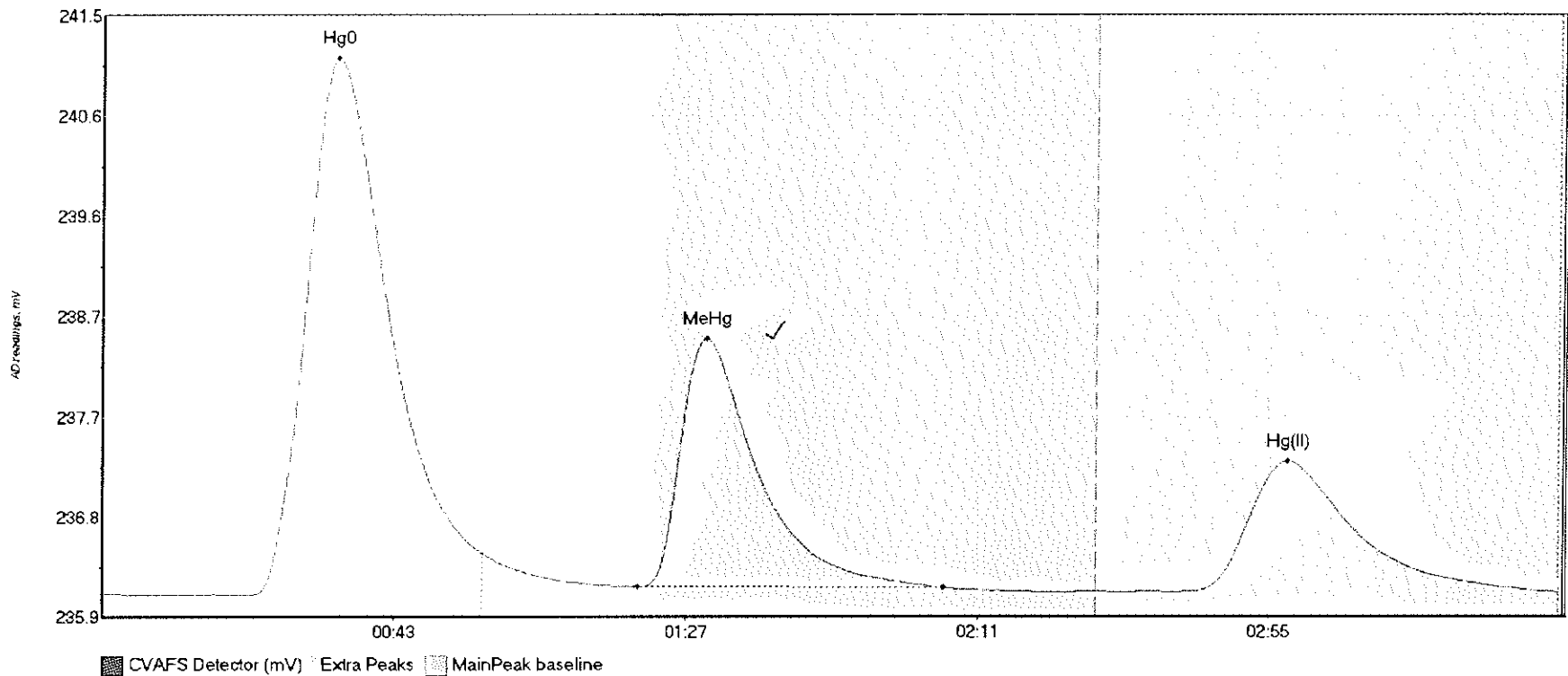
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL4 Hg0	274.805	22.1	57.5	236.32	236.47	34.4	1.986	CP	236.3194	0.00	0.00	
SEQ-CAL4 MeHg	1161.303	80.1	144.4	236.35	236.35	90.6	8.432	OK	236.3194	0.00	0.00	
SEQ-CAL4 Hg(II)	67.064	163.3	205.3	236.34	236.35	177.9	0.407	OK	236.3194	0.00	0.00	

#8: SEQ-CAL5



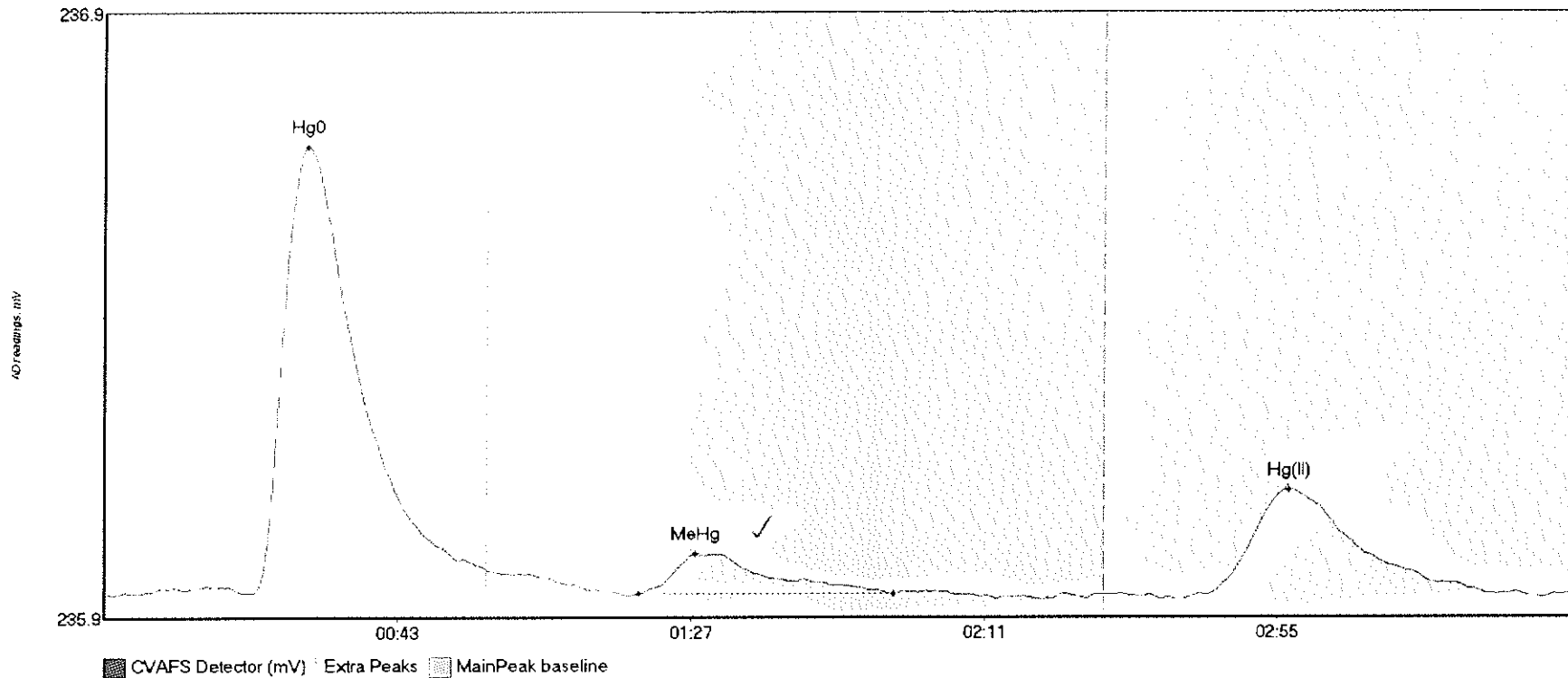
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL5 Hg0	605.574	21.5	57.5	236.19	236.54	35.3	4.522	CT	236.1992	0.00	0.03	
SEQ-CAL5 MeHg	2203.874	80.1	150.0	236.27	236.28	90.8	15.940	CT	236.1992	0.00	0.03	
SEQ-CAL5 Hg(II)	81.022	163.3	206.1	236.25	236.27	178.2	0.492	OK	236.1992	0.00	0.03	

#9: SEQ-ICV1



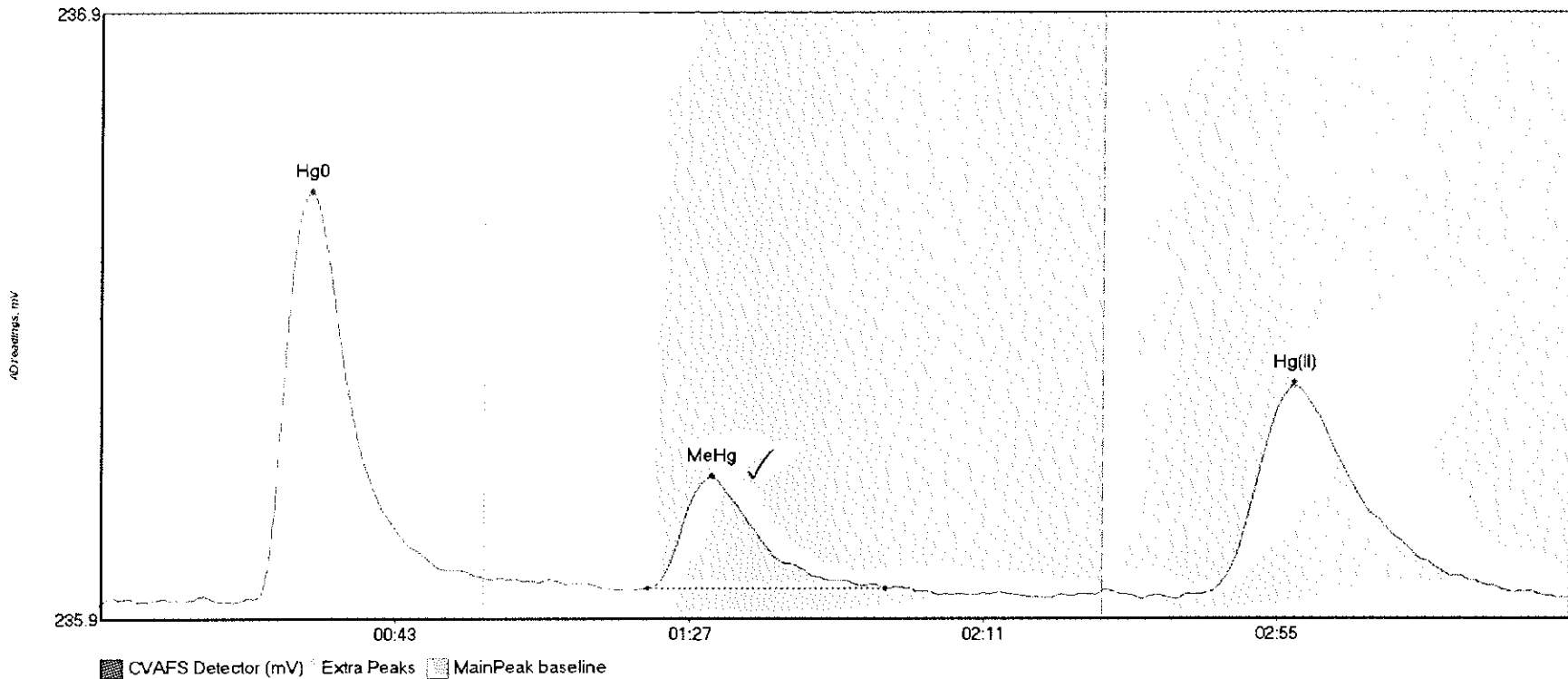
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICV1 Hg0	667.966	21.4	57.5	236.08	236.46	35.5	5.012	CT	236.0843	0.00	0.03	
SEQ-ICV1 MeHg	313.174	80.8	126.9	236.15	236.14	91.1	2.327	OK	236.0843	0.00	0.03	
SEQ-ICV1 Hg(II)	220.489	163.6	219.6	236.11	236.11	178.9	1.220	OK	236.0843	0.00	0.03	

#10: SEQ-ICB1



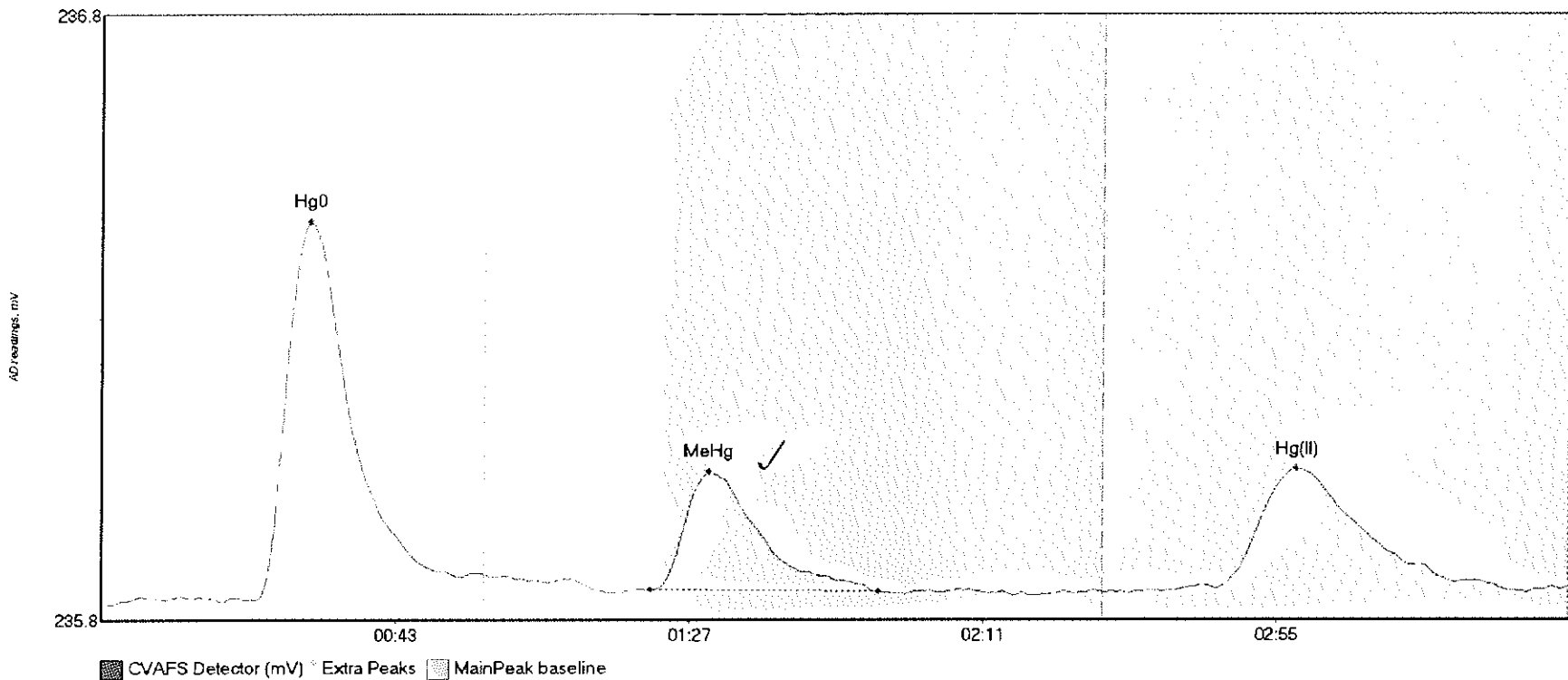
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICB1 Hg0	92.681	21.8	57.5	235.98	236.02	30.4	0.738	CT	235.9782	0.00	0.00	
SEQ-ICB1 MeHg	11.166	80.1	118.5	235.98	235.98	88.7	0.067	OK	235.9782	0.00	0.00	
SEQ-ICB1 Hg(II)	30.229	165.5	207.6	235.98	235.98	177.7	0.176	OK	235.9782	0.00	0.00	

#11: F609212-BLK4



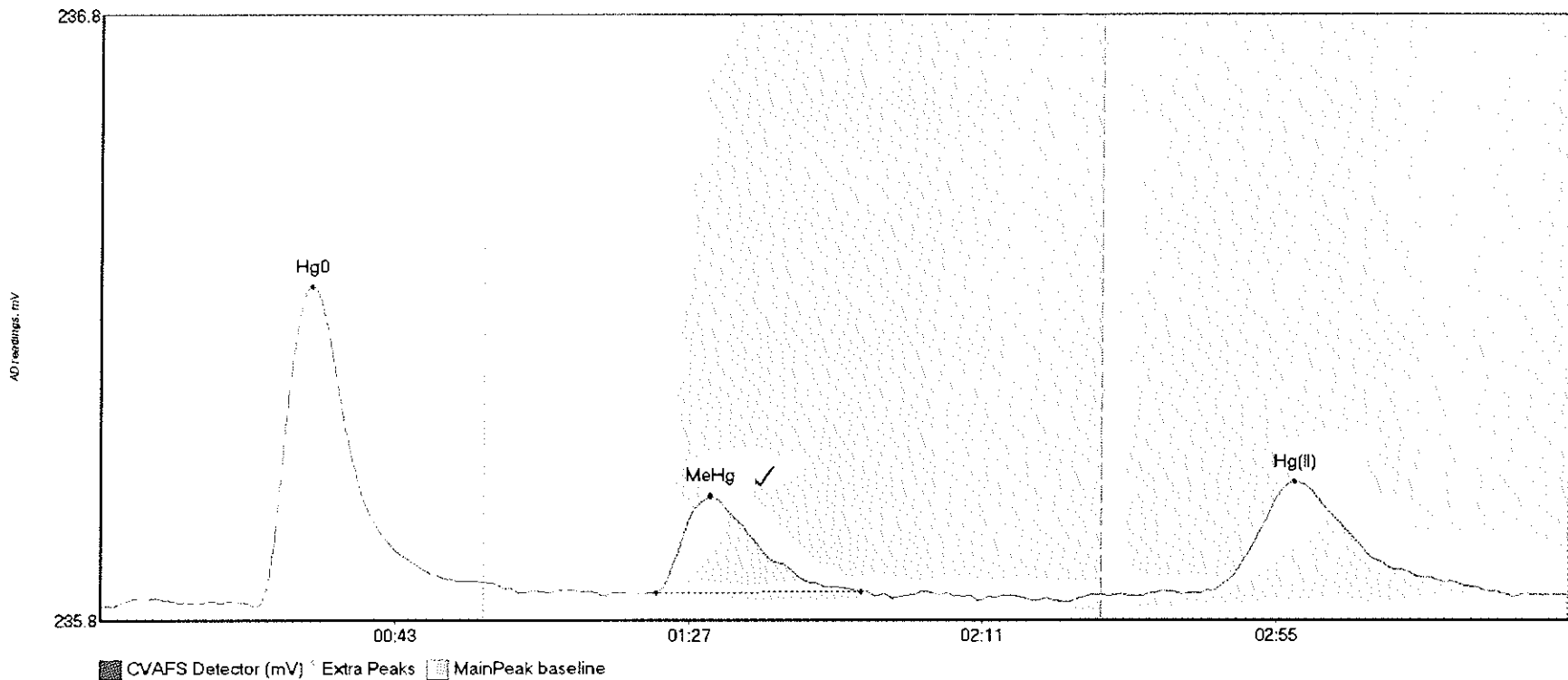
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-BLK4 Hg	74.893	22.7	57.5	235.89	235.93	31.4	0.673	CT	235.8885	0.00	0.01	
F609212-BLK4 Me	23.720	81.8	117.5	235.91	235.91	91.3	0.186	OK	235.8885	0.00	0.01	
F609212-BLK4 Hg	58.924	164.0	211.6	235.90	235.90	178.6	0.344	OK	235.8885	0.00	0.01	

#12: F609212-BLK5



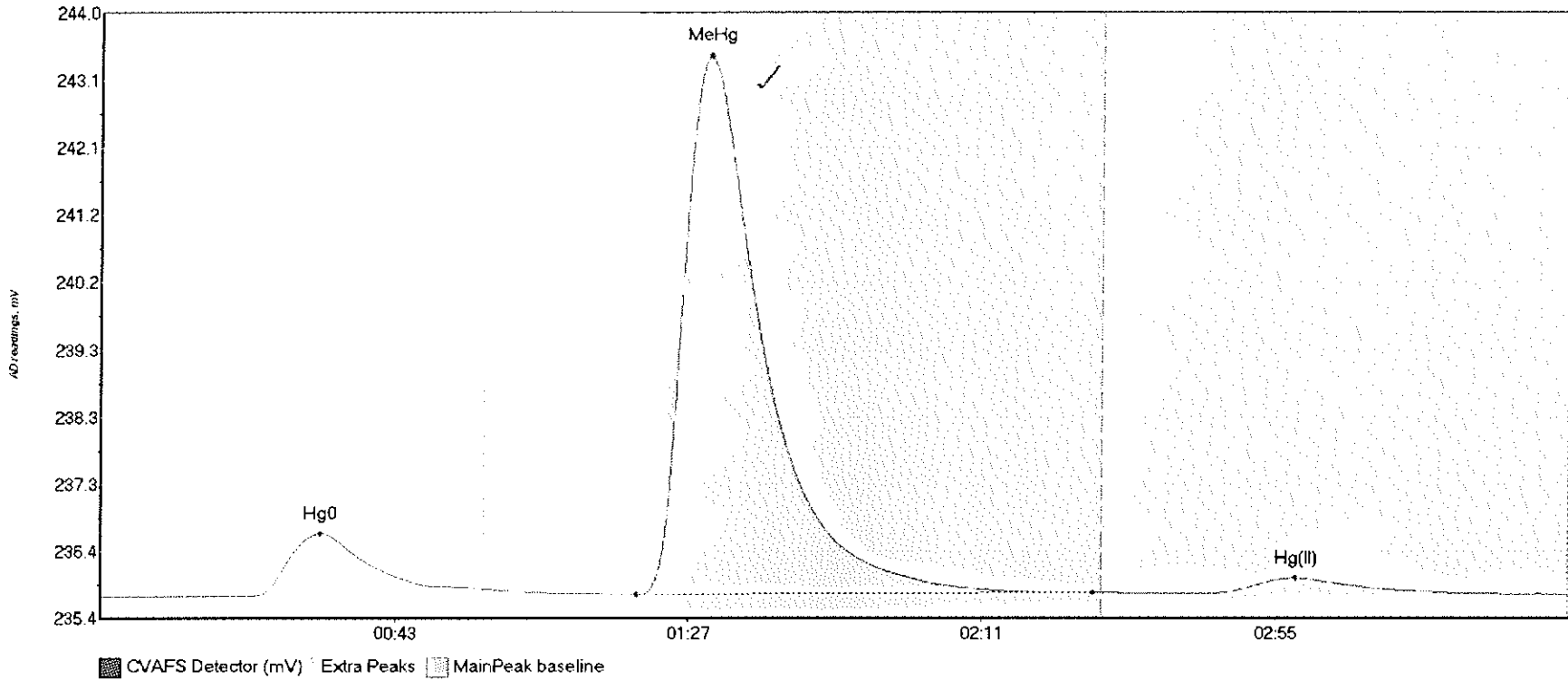
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-BLK5 Hg	65.945	18.1	54.0	235.83	235.87	31.2	0.627	OK	235.8286	0.00	0.03	
F609212-BLK5 Me	25.379	82.2	116.4	235.85	235.85	90.9	0.196	OK	235.8286	0.00	0.03	
F609212-BLK5 Hg	35.608	161.1	211.1	235.85	235.85	179.0	0.201	OK	235.8286	0.00	0.03	

#13: F609212-BLK6



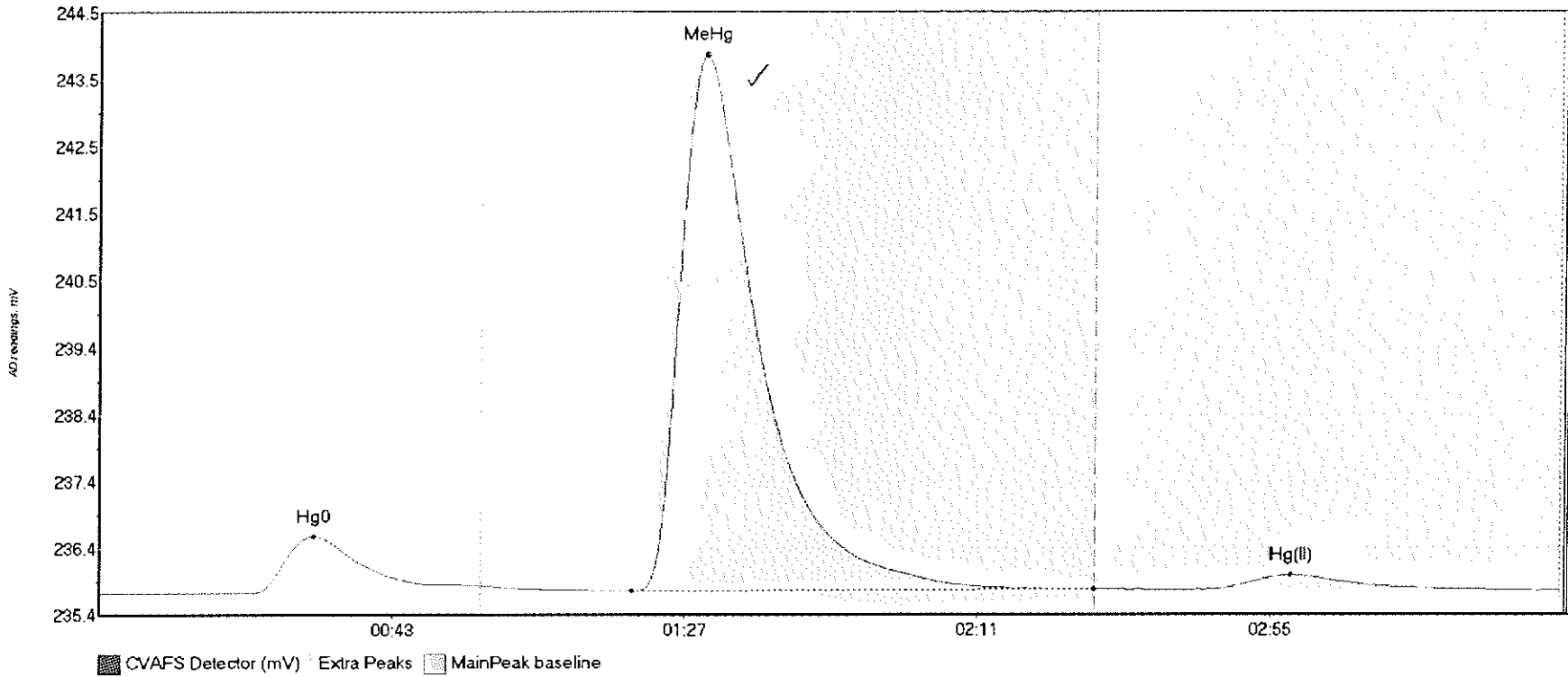
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-BLK6 Hg	57.371	23.1	57.5	235.79	235.83	31.4	0.531	CT	235.7870	0.00	0.02	
F609212-BLK6 Me	19.786	83.1	113.9	235.81	235.81	91.2	0.158	OK	235.7870	0.00	0.02	
F609212-BLK6 Hg	32.032	164.5	211.6	235.81	235.80	178.7	0.185	OK	235.7870	0.00	0.02	

#14: F609212-BS2



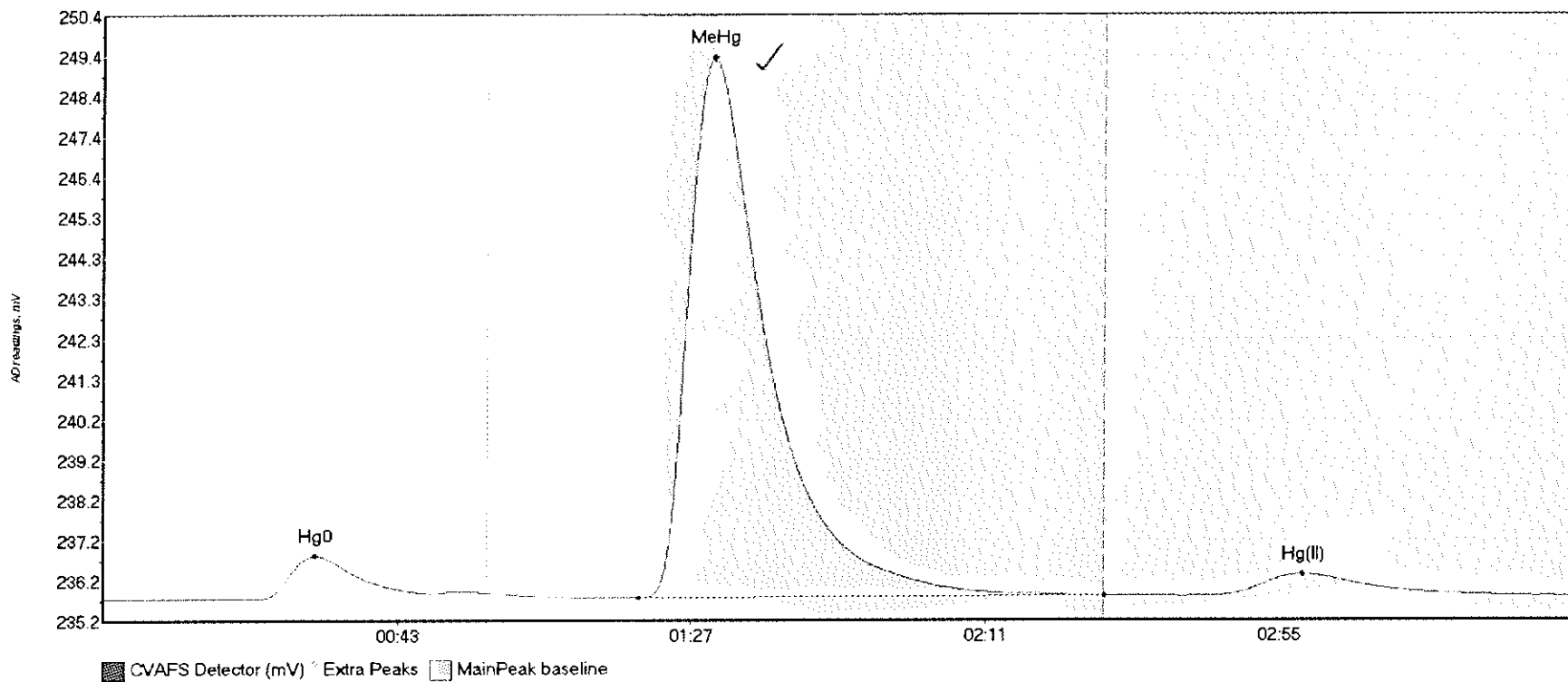
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-BS2 Hg0	111.540	21.1	57.5	235.75	235.85	32.9	0.889	CT	235.7465	0.00	0.04	
F609212-BS2 MeH	1056.060	80.3	148.6	235.77	235.80	91.1	7.650	OK	235.7465	0.00	0.04	
F609212-BS2 Hg(34.642	166.2	202.9	235.79	235.79	179.1	0.217	OK	235.7465	0.00	0.04	

#15: F609212-BSD2



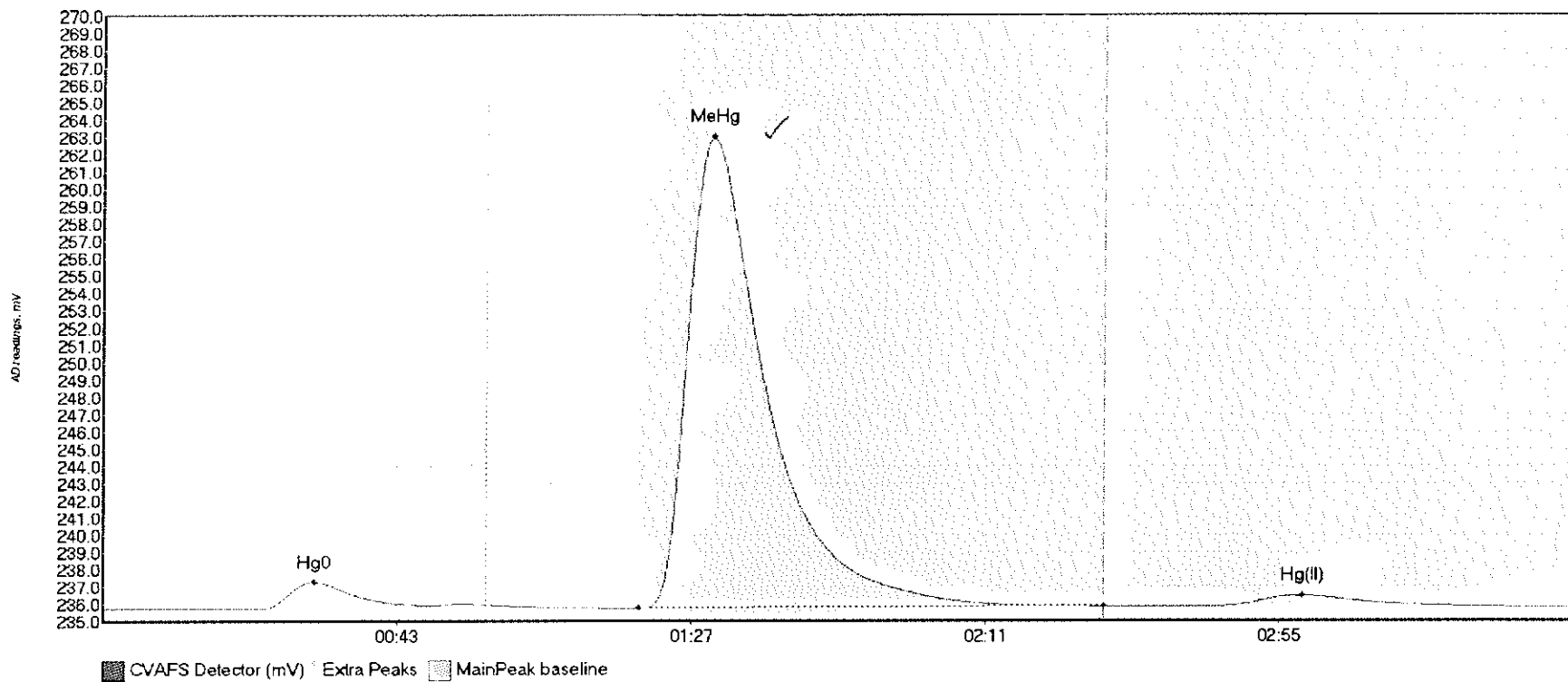
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F609212-BSD2 Hg	103.640	22.5	57.5	235.72	235.83	32.3	0.860	CF	235.7153	0.00	0.05	
F609212-BSD2 Me	1116.616	80.1	149.7	235.74	235.77	91.1	8.129	OK	235.7153	0.00	0.05	
F609212-BSD2 Hg	33.959	166.1	206.6	235.77	235.77	179.2	0.213	OK	235.7153	0.00	0.05	

#16: F609212-DUP2



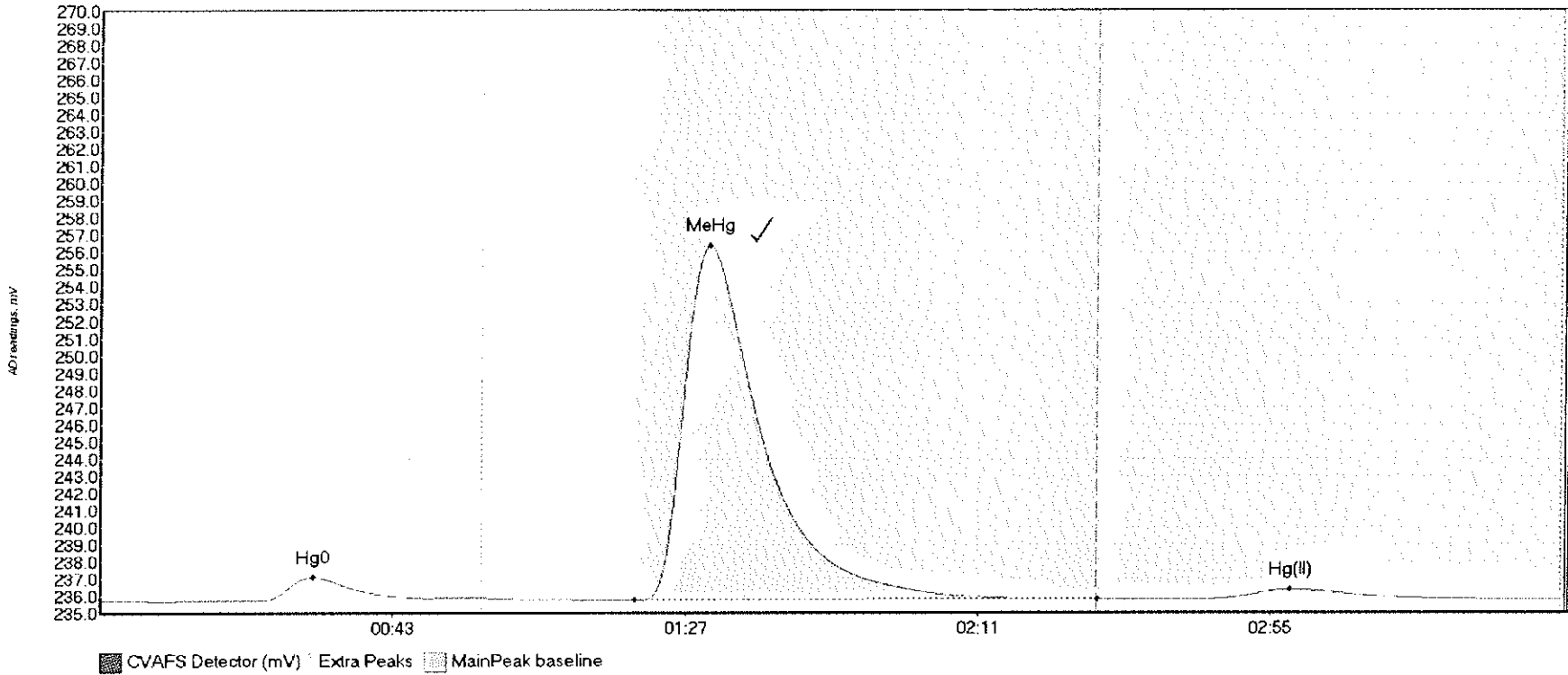
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-DUP2 Hg	111.067	20.5	49.3	235.70	235.84	31.8	1.091	OK	235.7150	0.00	0.05	
F609212-DUP2 Me	1871.296	80.1	150.0	235.73	235.78	91.4	13.606	CT	235.7150	0.00	0.05	
F609212-DUP2 Hg	95.479	165.5	214.4	235.78	235.77	179.6	0.535	OK	235.7150	0.00	0.05	

#17: F609212-MS3



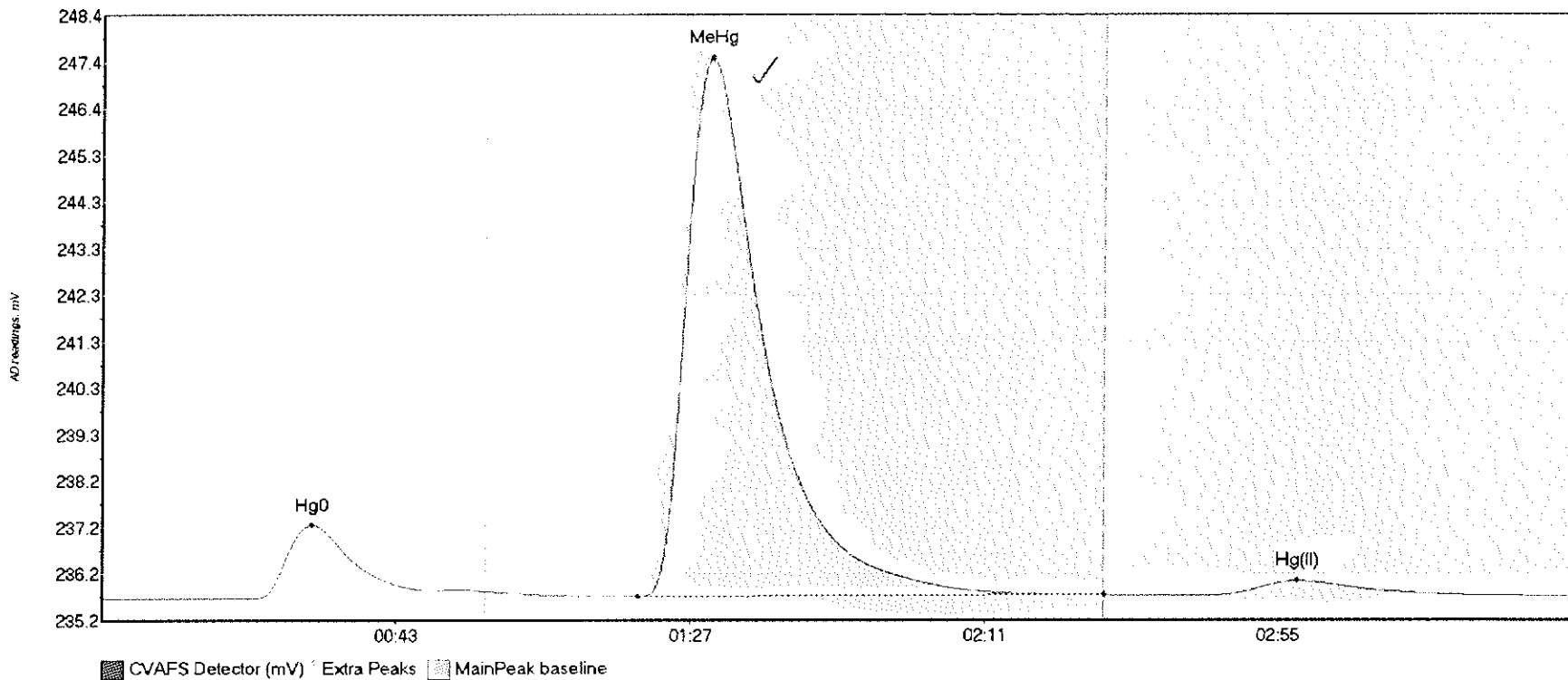
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-MS3 Hg0	151.449	14.9	40.6	235.70	235.88	31.7	1.553	OK	235.7005	0.00	0.08	
F609212-MS3 MeH	3739.853	80.1	149.9	235.74	235.85	91.3	27.218	OK	235.7005	0.00	0.08	
F609212-MS3 Hg(	109.990	164.5	209.7	235.82	235.80	179.4	0.631	OK	235.7005	0.00	0.08	

#18: F609212-MSD3



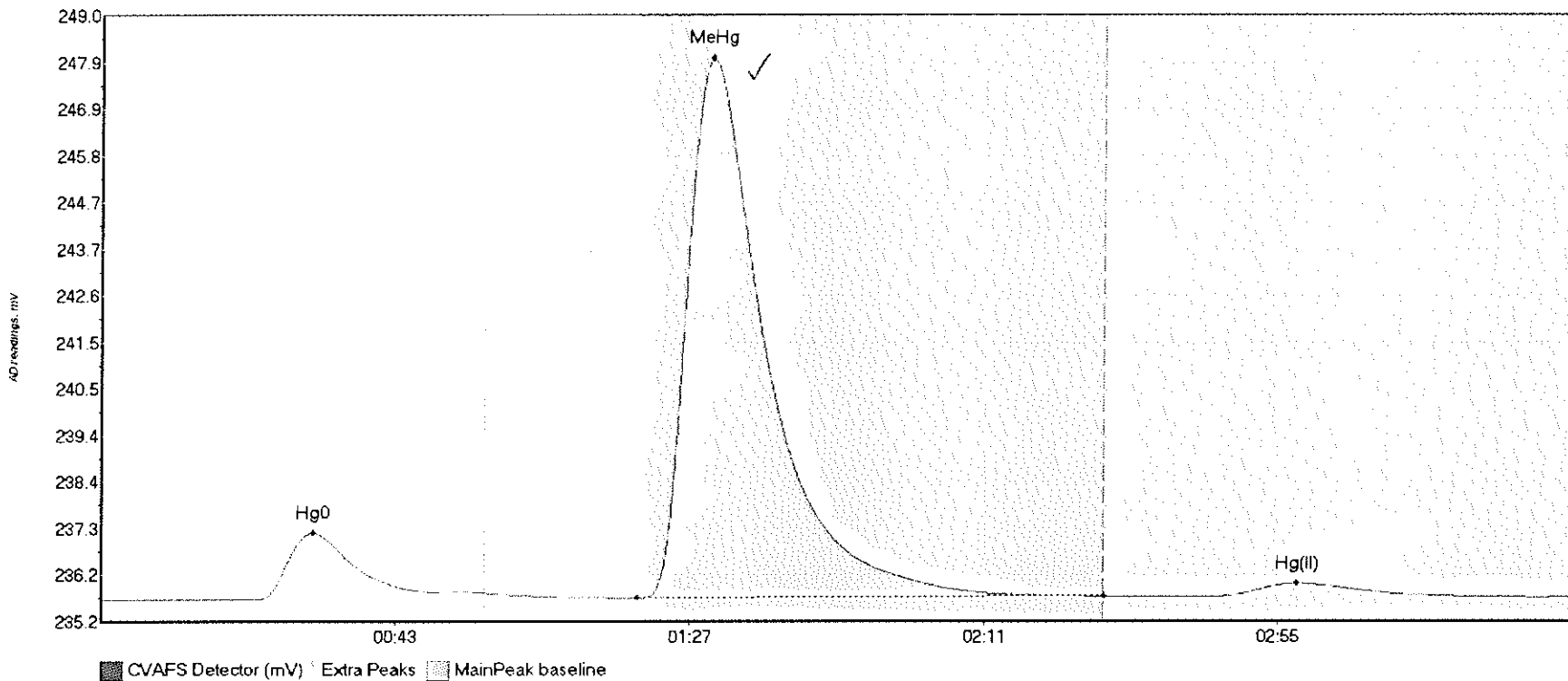
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-MSD3 Hg	136.259	19.3	49.5	235.70	235.85	32.1	1.377	OK	235.6948	0.00	0.07	
F609212-MSD3 Me	2834.159	80.3	150.0	235.73	235.80	91.6	20.621	CT	235.6948	0.00	0.07	
F609212-MSD3 Hg	104.857	164.3	214.9	235.78	235.76	179.1	0.572	OK	235.6948	0.00	0.07	

#19: F609212-MS4



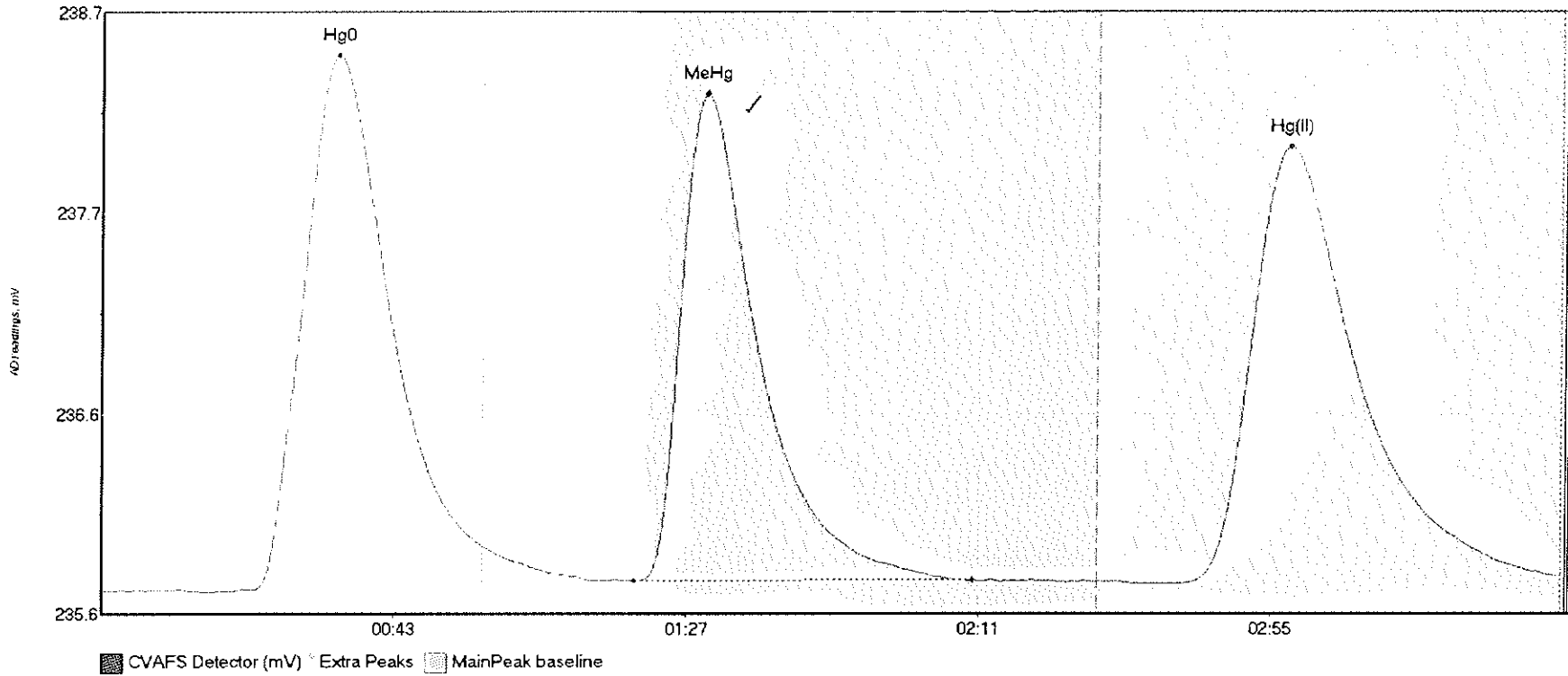
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-MS4 Hg0	175.159	20.2	57.5	235.68	235.83	31.4	1.609	CT	235.6802	0.00	0.06	
F609212-MS4 MeH	1607.213	80.1	150.0	235.73	235.76	91.1	11.722	CT	235.6802	0.00	0.06	
F609212-MS4 Hg(	48.908	165.9	204.0	235.75	235.76	178.9	0.310	OK	235.6802	0.00	0.06	

#20: F609212-MSD4



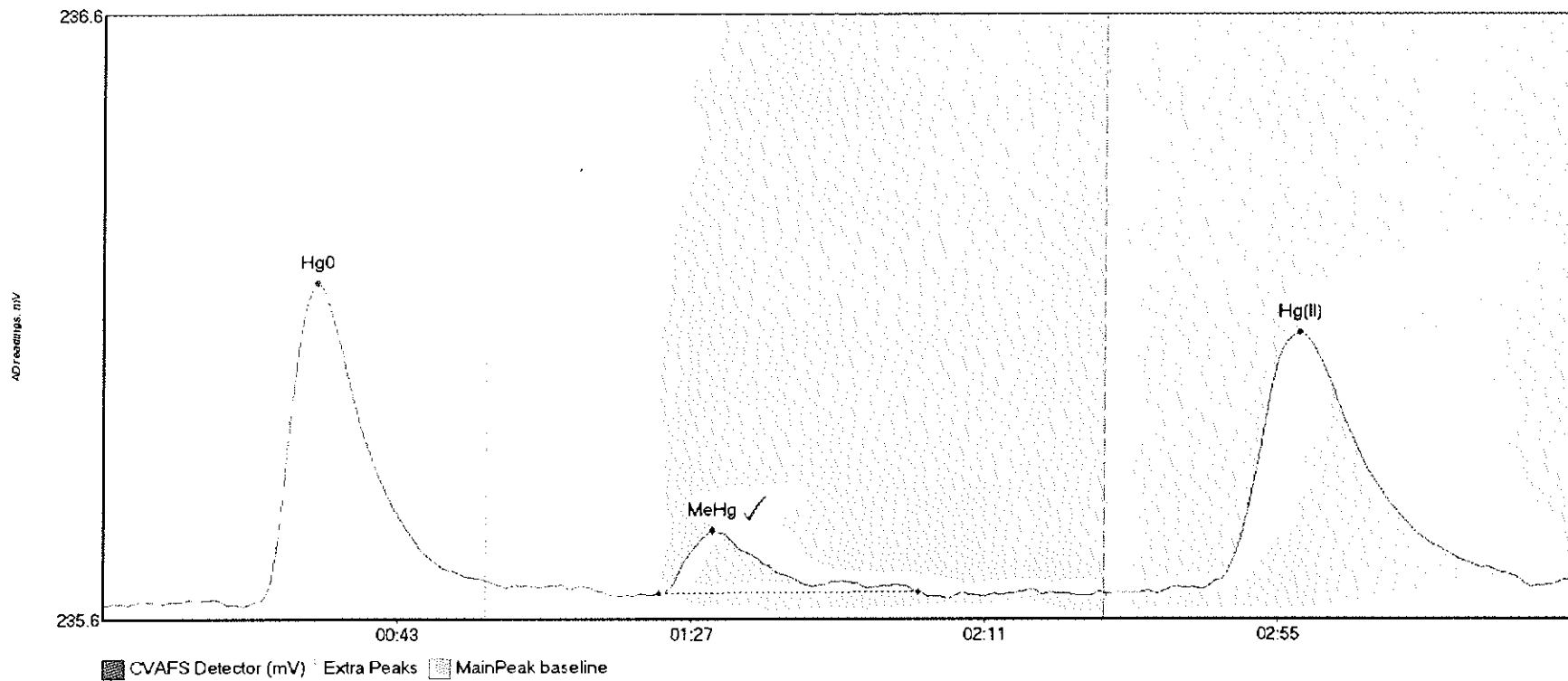
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-MSD4 Hg	165.493	22.1	57.5	235.67	235.83	31.7	1.514	CT	235.6756	0.00	0.06	
F609212-MSD4 Me	1694.713	80.2	150.0	235.71	235.75	91.3	12.280	CT	235.6756	0.00	0.06	
F609212-MSD4 Hg	48.143	166.6	205.0	235.75	235.75	178.9	0.296	OK	235.6756	0.00	0.06	

#21: SEQ-CCV1



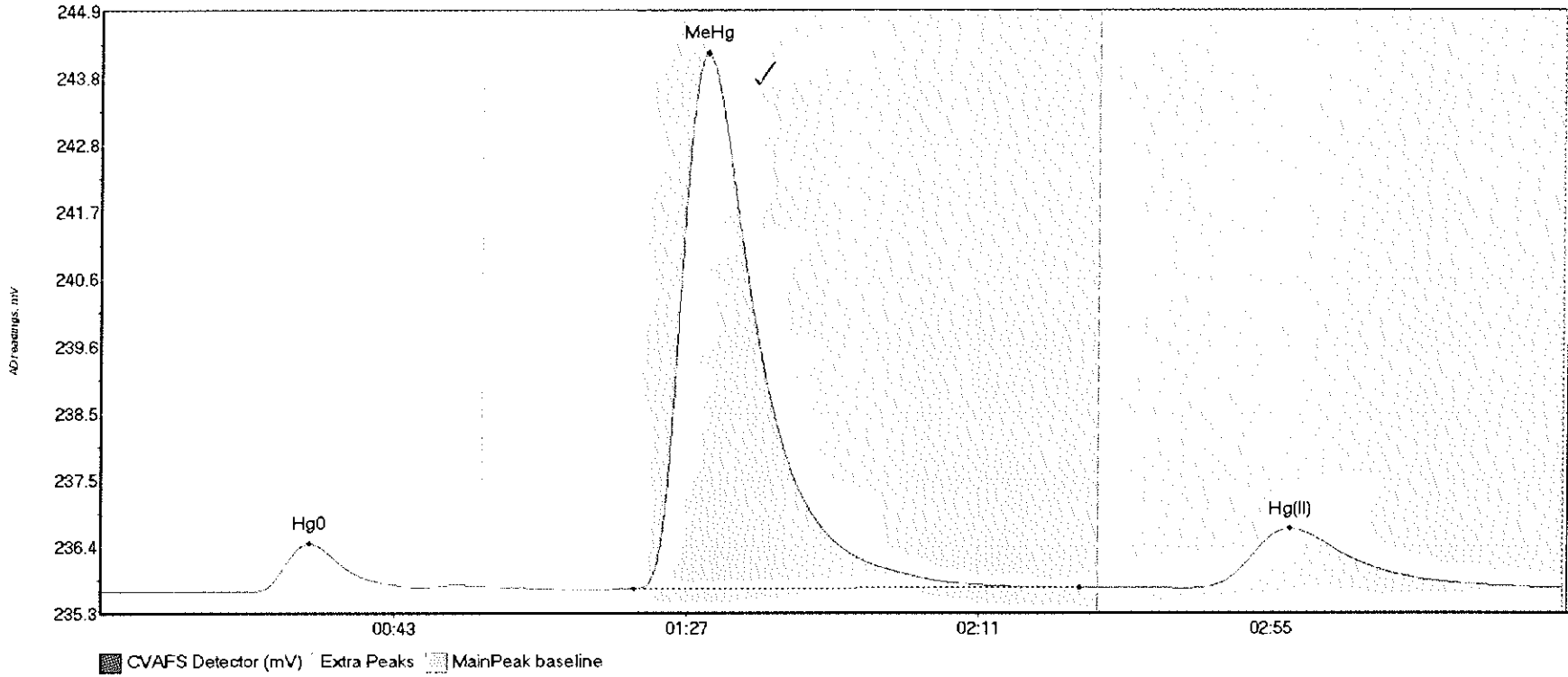
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0	385.705	19.5	57.5	235.68	235.91	35.6	2.805	CT	235.6776	0.00	0.08	
SEQ-CCV1 MeHg	347.419	80.1	131.2	235.73	235.73	91.0	2.551	OK	235.6776	0.00	0.08	
SEQ-CCV1 Hg(II)	414.529	162.2	219.8	235.72	235.76	178.9	2.288	CT	235.6776	0.00	0.08	

#22: SEQ-CCB1



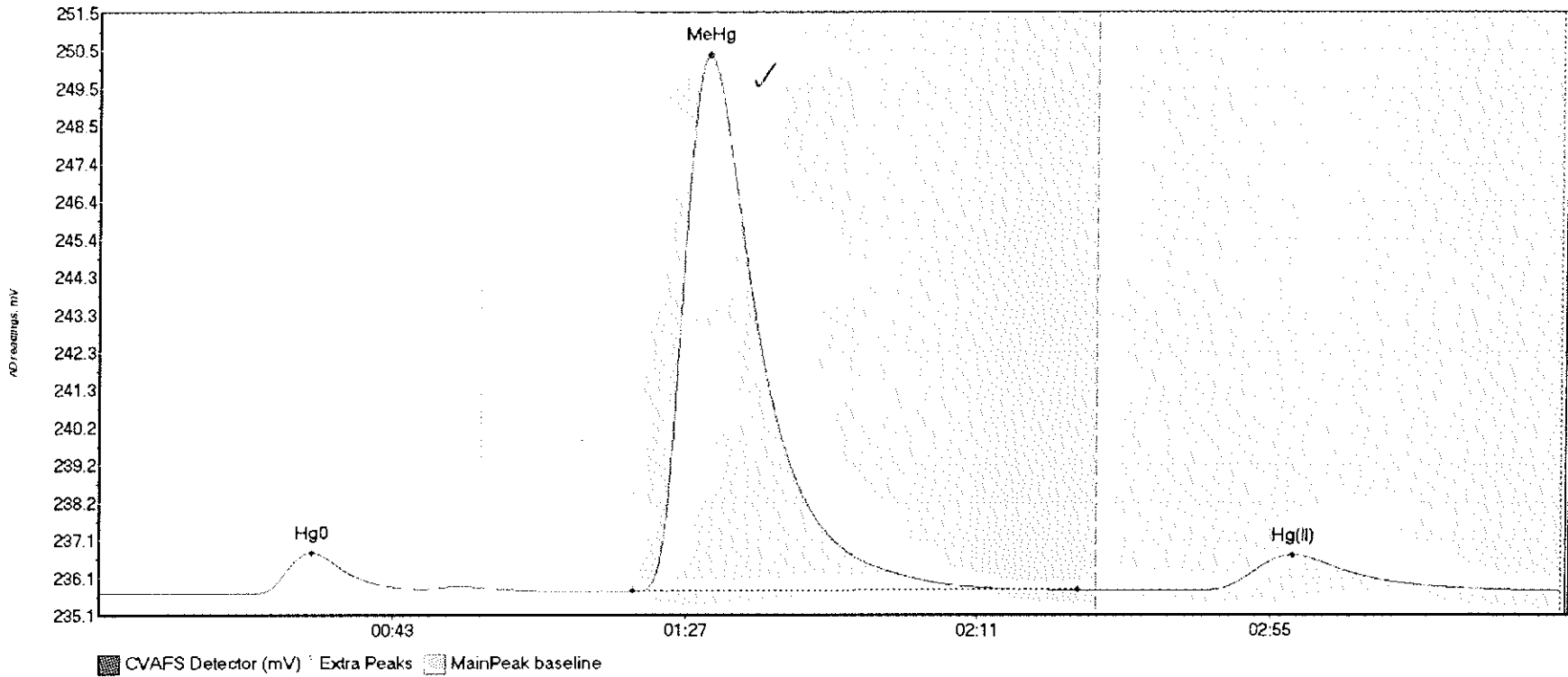
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB1 Hg0	66.582	21.0	57.5	235.66	235.70	32.0	0.534	CP	235.6612	0.00	0.04	
SEQ-CCB1 MeHg	14.274	83.1	122.1	235.68	235.68	91.2	0.104	OK	235.6612	0.00	0.04	
SEQ-CCB1 Hg(II)	79.792	157.8	214.2	235.68	235.69	179.2	0.431	OK	235.6612	0.00	0.04	

#23: 1607903-32RE1



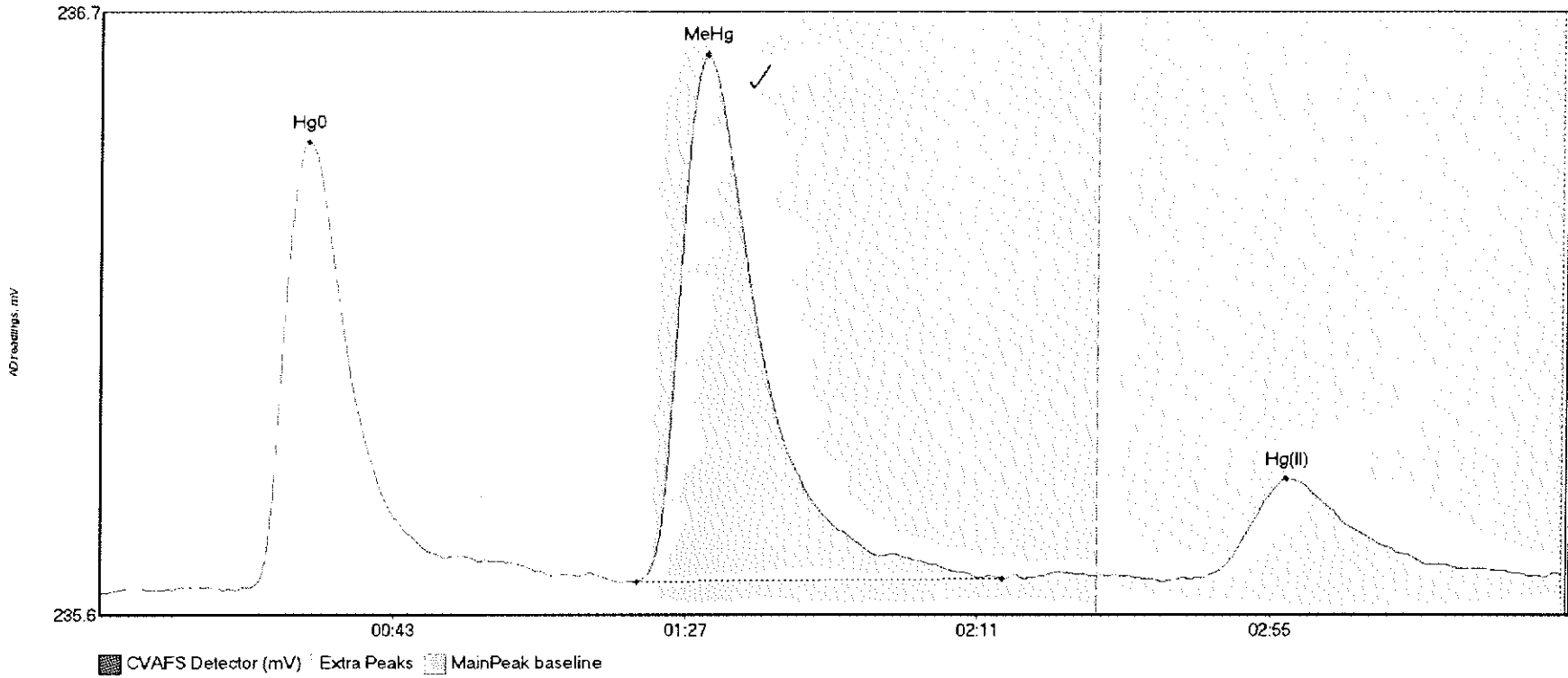
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-32RE1 H	72.060	22.5	48.3	235.67	235.73	31.3	0.762	OK	235.6637	0.00	0.07	
1607903-32RE1 M	1146.248	80.1	147.1	235.71	235.73	91.0	8.513	OK	235.6637	0.00	0.07	
1607903-32RE1 H	166.801	164.0	216.8	235.72	235.73	178.9	0.948	OK	235.6637	0.00	0.07	

#24: 1607903-33RE1



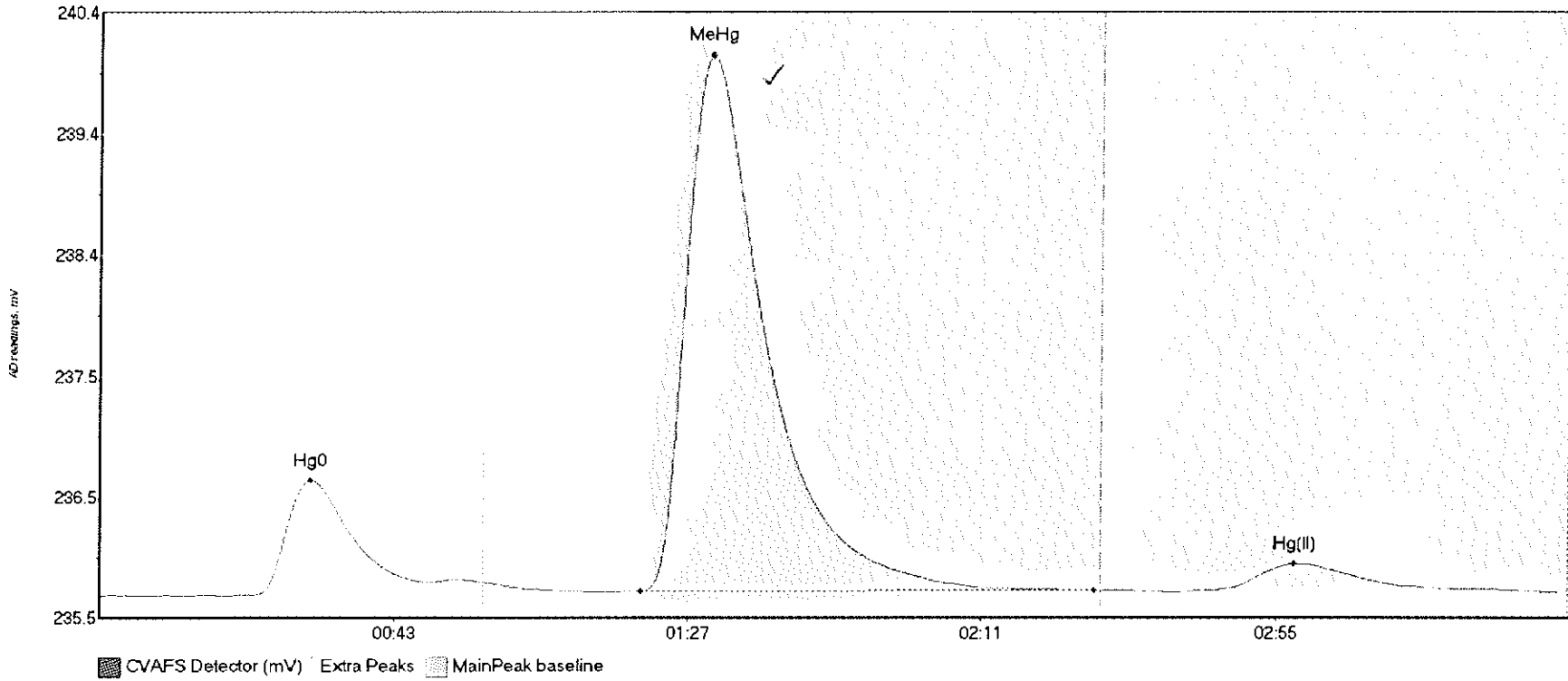
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-33RE1	H 104.724	21.6	48.6	235.68	235.79	31.8	1.105	OK	235.6782	0.00	0.07	
1607903-33RE1	M 1984.159	80.1	147.2	235.73	235.76	91.4	14.635	OK	235.6782	0.00	0.07	
1607903-33RE1	H 173.139	164.9	210.0	235.75	235.75	179.5	0.972	OK	235.6782	0.00	0.07	

#25: 1607903-37RE1



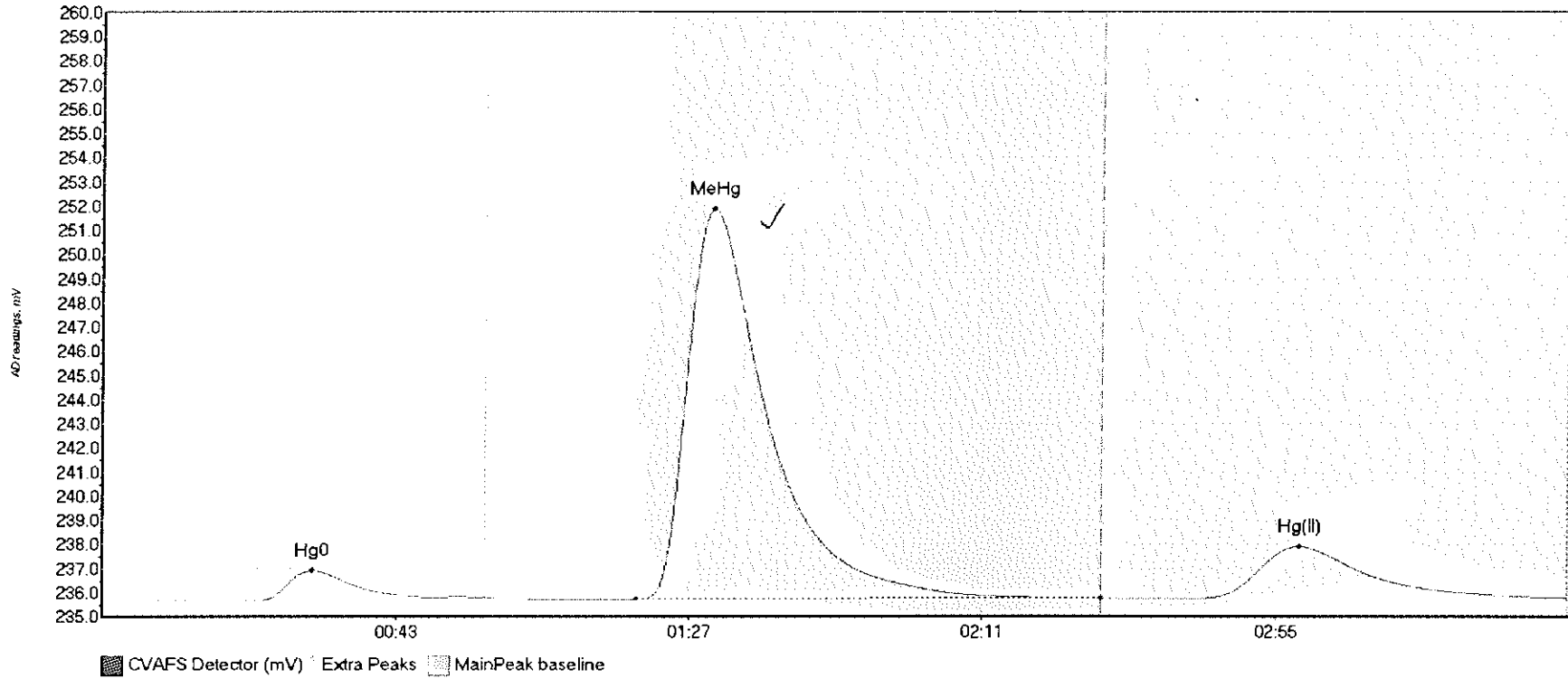
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-37RE1 H	87.920	0.6	57.1	235.68	235.73	31.2	0.823	OK	235.6757	0.00	0.04	
1607903-37RE1 M	134.581	80.7	135.8	235.70	235.70	91.0	0.964	OK	235.6757	0.00	0.04	
1607903-37RE1 H	31.288	165.9	212.4	235.70	235.71	178.4	0.183	OK	235.6757	0.00	0.04	

#26: 1608071-01RE1



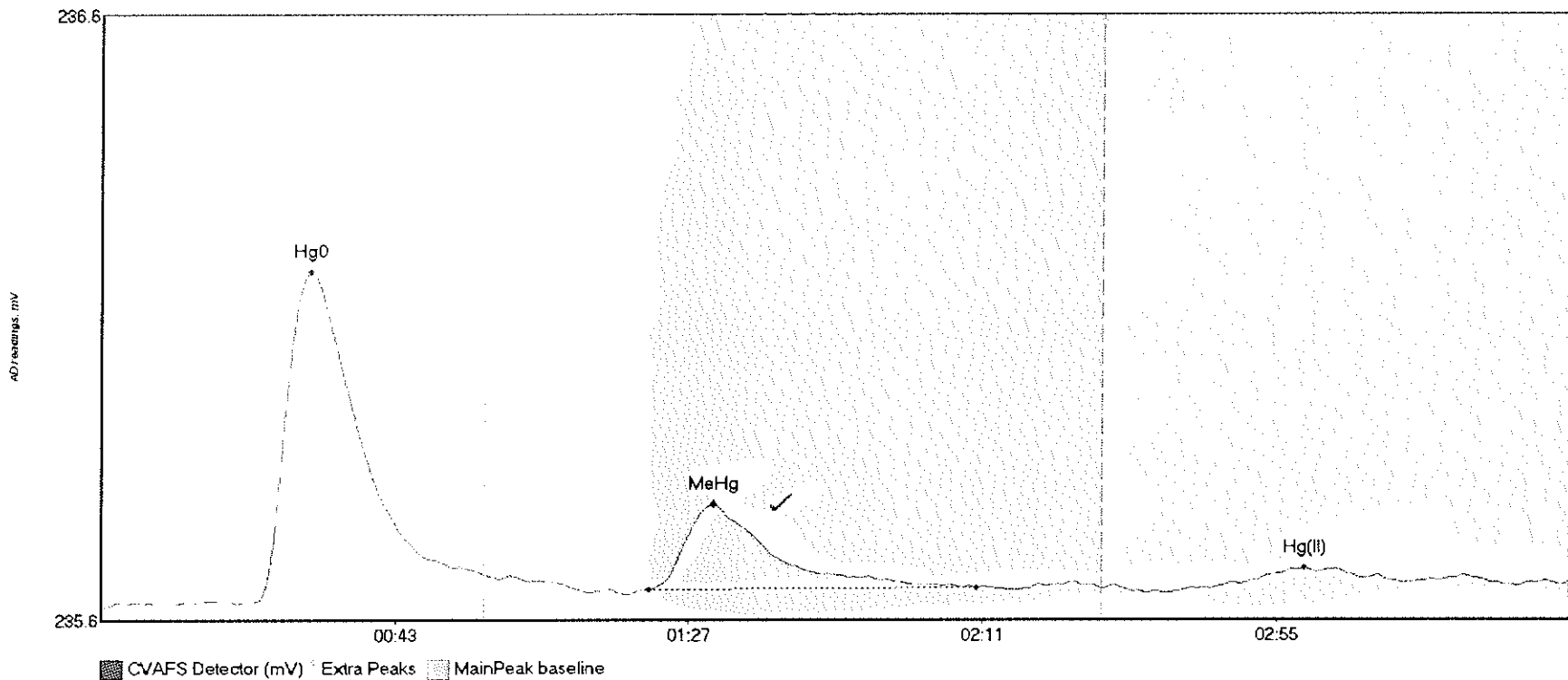
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-01RE1 H	99.285	19.0	57.5	235.67	235.78	31.5	0.942	CF	235.6714	0.00	0.04	
1608071-01RE1 M	605.880	81.0	148.9	235.71	235.71	91.5	4.351	OK	235.6714	0.00	0.04	
1608071-01RE1 H	36.198	165.2	211.4	235.71	235.72	178.8	0.216	OK	235.6714	0.00	0.04	

#27: 1608071-02RE1



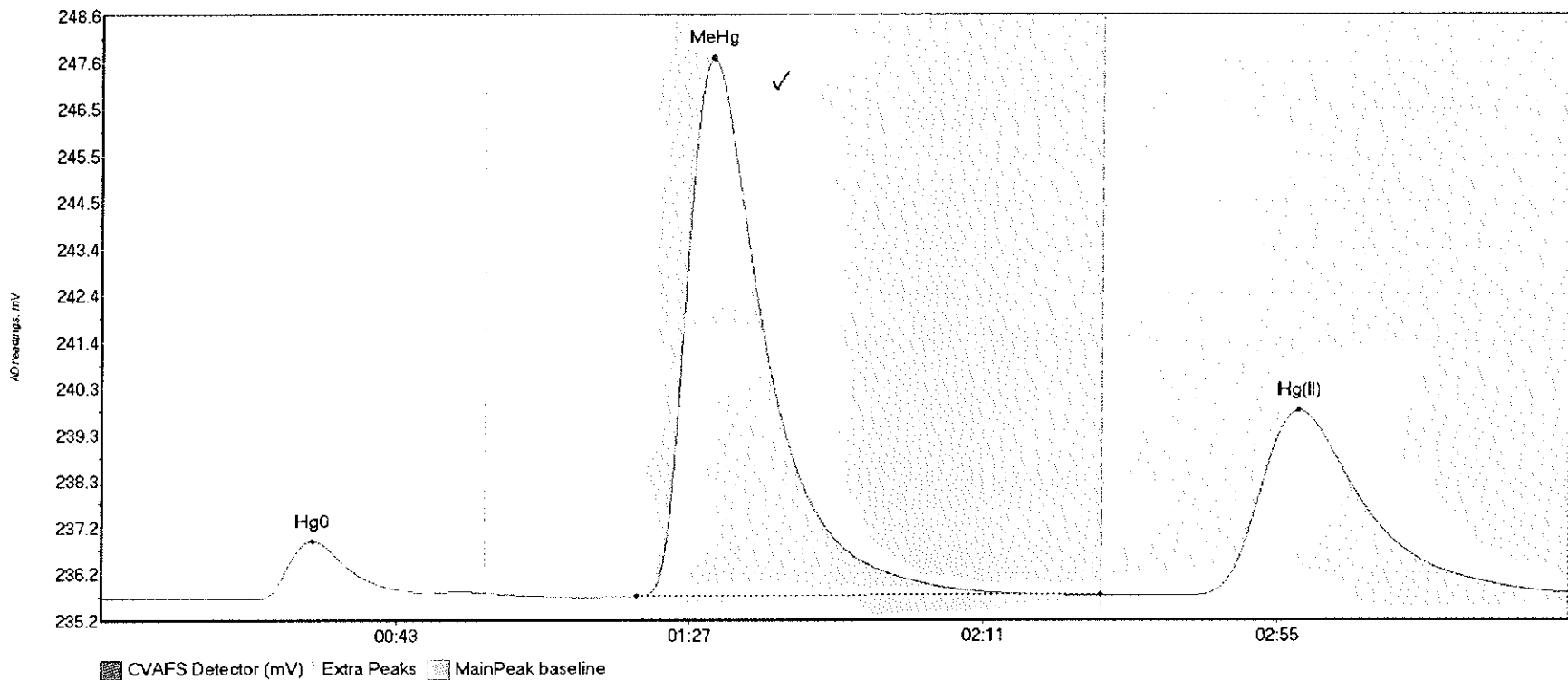
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-02RE1 H	131.332	23.3	57.5	235.67	235.78	31.6	1.232	CT	235.6719	0.00	0.10	
1608071-02RE1 M	2252.457	80.1	149.9	235.73	235.77	91.6	16.140	OK	235.6719	0.00	0.10	
1608071-02RE1 H	390.132	164.4	219.8	235.76	235.77	179.4	2.134	CT	235.6719	0.00	0.10	

#28: WS



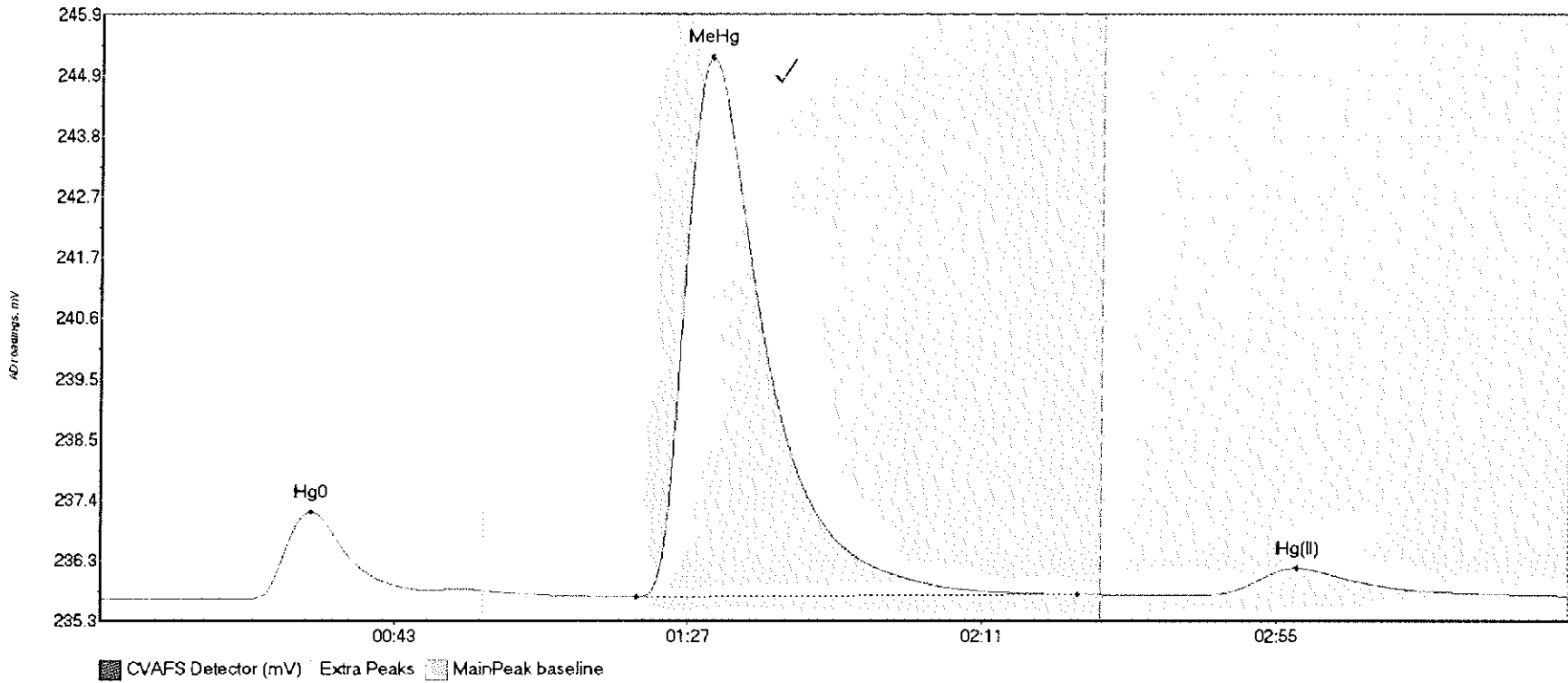
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	65.091	20.6	57.5	235.67	235.72	31.3	0.548	CT	235.6661	0.00	0.04	
WS MeHg	21.007	82.2	131.2	235.69	235.70	91.7	0.142	OK	235.6661	0.00	0.04	
WS Hg(II)	6.510	166.0	210.3	235.70	235.70	180.2	0.033	OK	235.6661	0.00	0.04	

#29: 1608071-05RE1



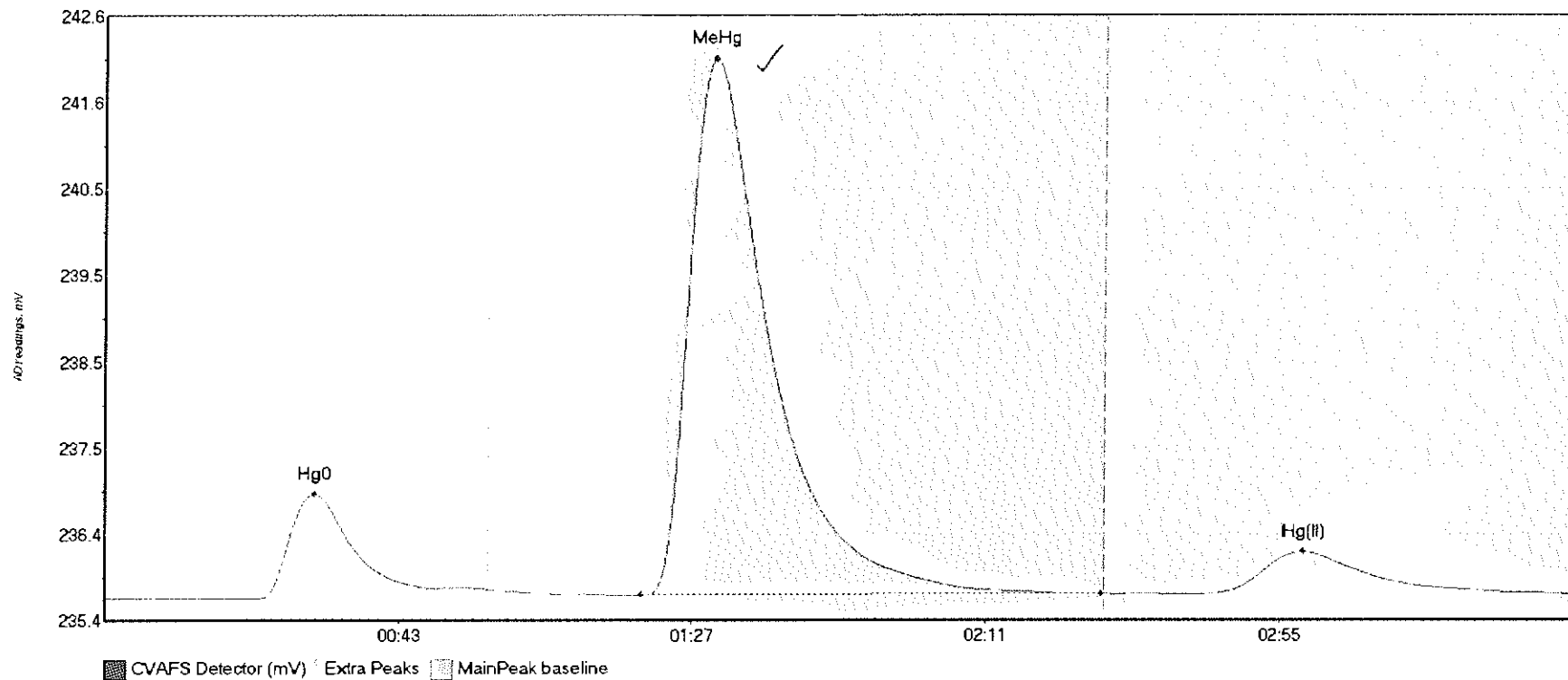
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	StDev	BlShift	Comment
1608071-05RE1 H	123.025	23.0	48.8	235.67	235.78	31.6	1.273	OK	235.6644	0.00	0.13	
1608071-05RE1 M	1644.496	80.1	149.7	235.73	235.74	91.5	11.899	OK	235.6644	0.00	0.13	
1608071-05RE1 H	740.738	163.2	219.8	235.74	235.79	179.2	4.101	CT	235.6644	0.00	0.13	

#30: 1608071-06RE1



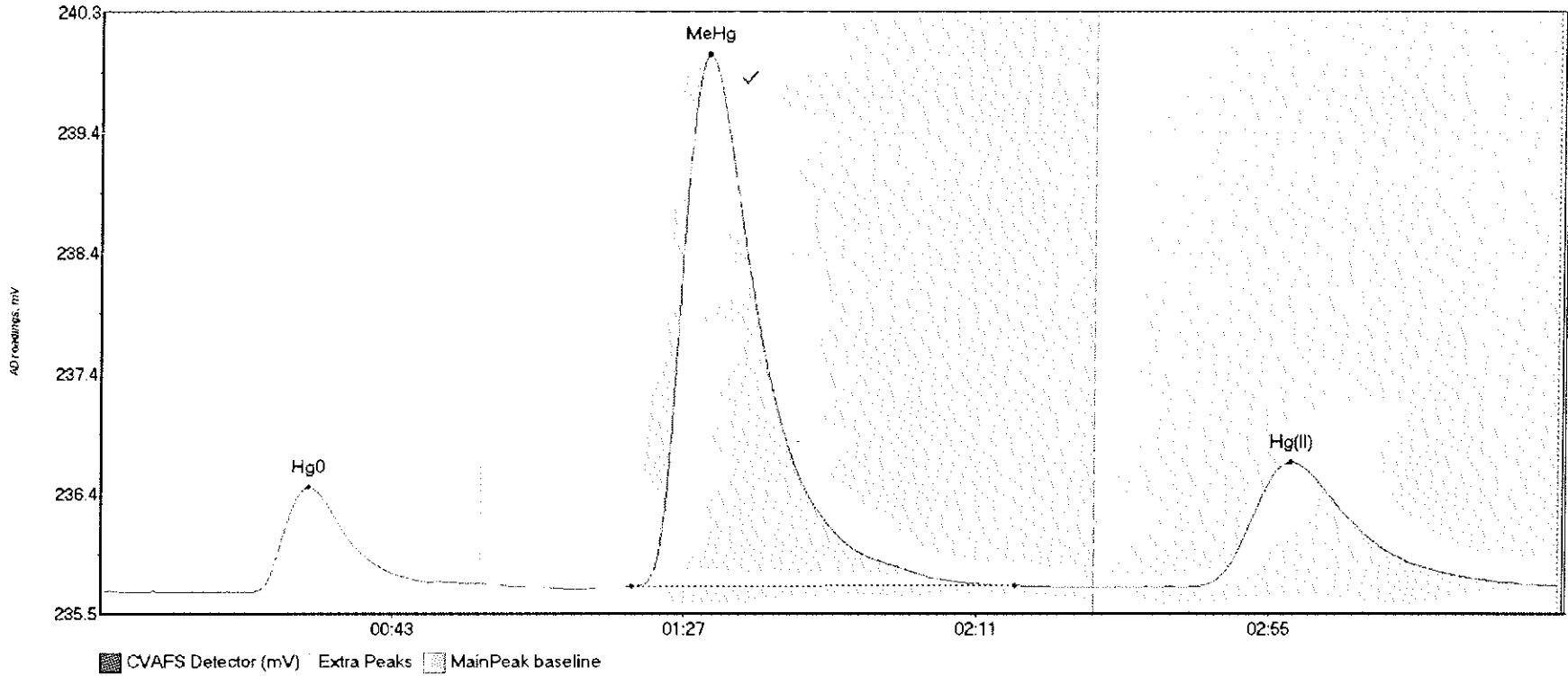
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1608071-06RE1 H	155.333	17.5	57.5	235.66	235.80	31.6	1.534	CT	235.6560	0.00	0.06	
1608071-06RE1 M	1321.741	80.5	146.4	235.69	235.74	91.3	9.474	OK	235.6560	0.00	0.06	
1608071-06RE1 H	81.957	164.8	214.2	235.73	235.73	179.2	0.470	OK	235.6560	0.00	0.06	

#31: 1608071-07RE1



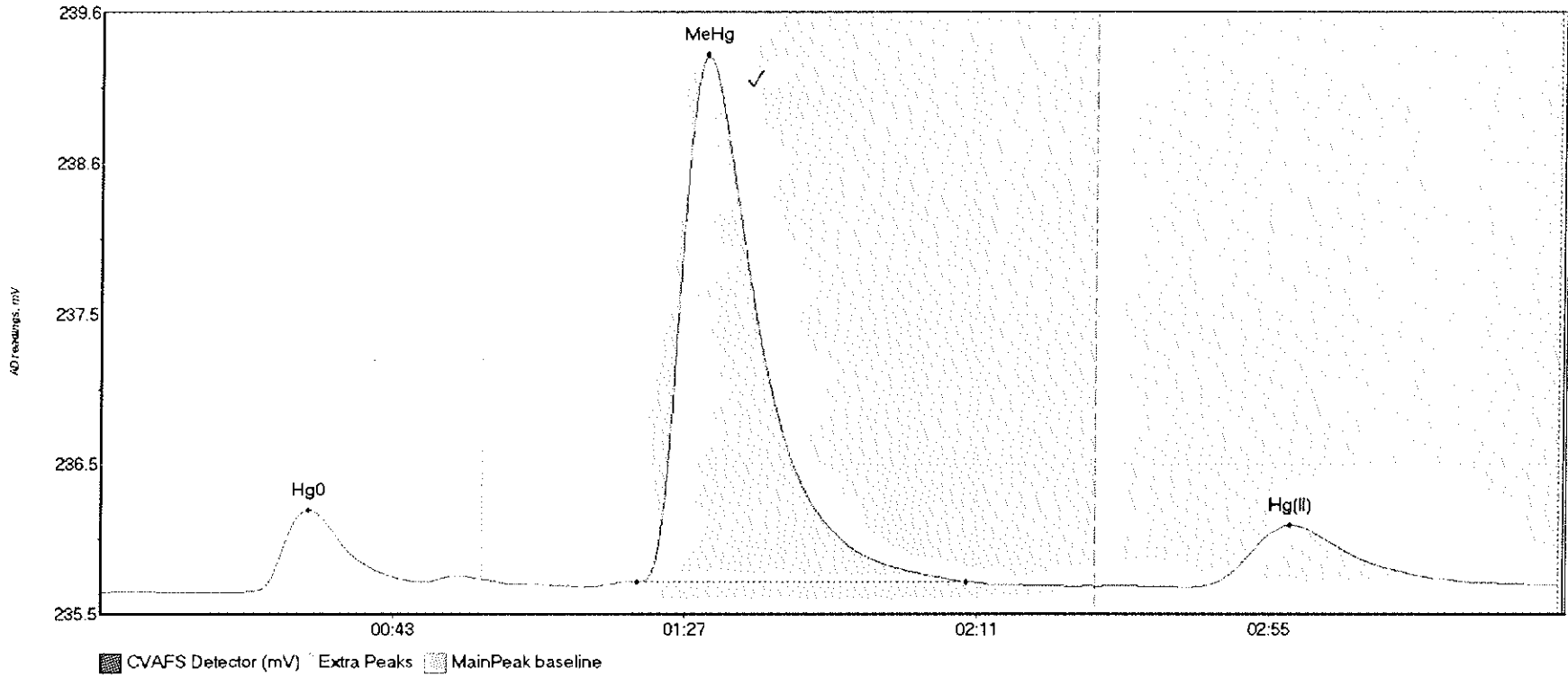
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-07RE1 H	129.030	21.9	57.5	235.66	235.77	31.4	1.243	CT	235.6697	0.00	0.04	
1608071-07RE1 M	895.677	80.4	149.5	235.70	235.72	91.5	6.373	OK	235.6697	0.00	0.04	
1608071-07RE1 H	89.533	163.9	217.4	235.71	235.72	179.6	0.505	OK	235.6697	0.00	0.04	

#32: 1608071-11RE1



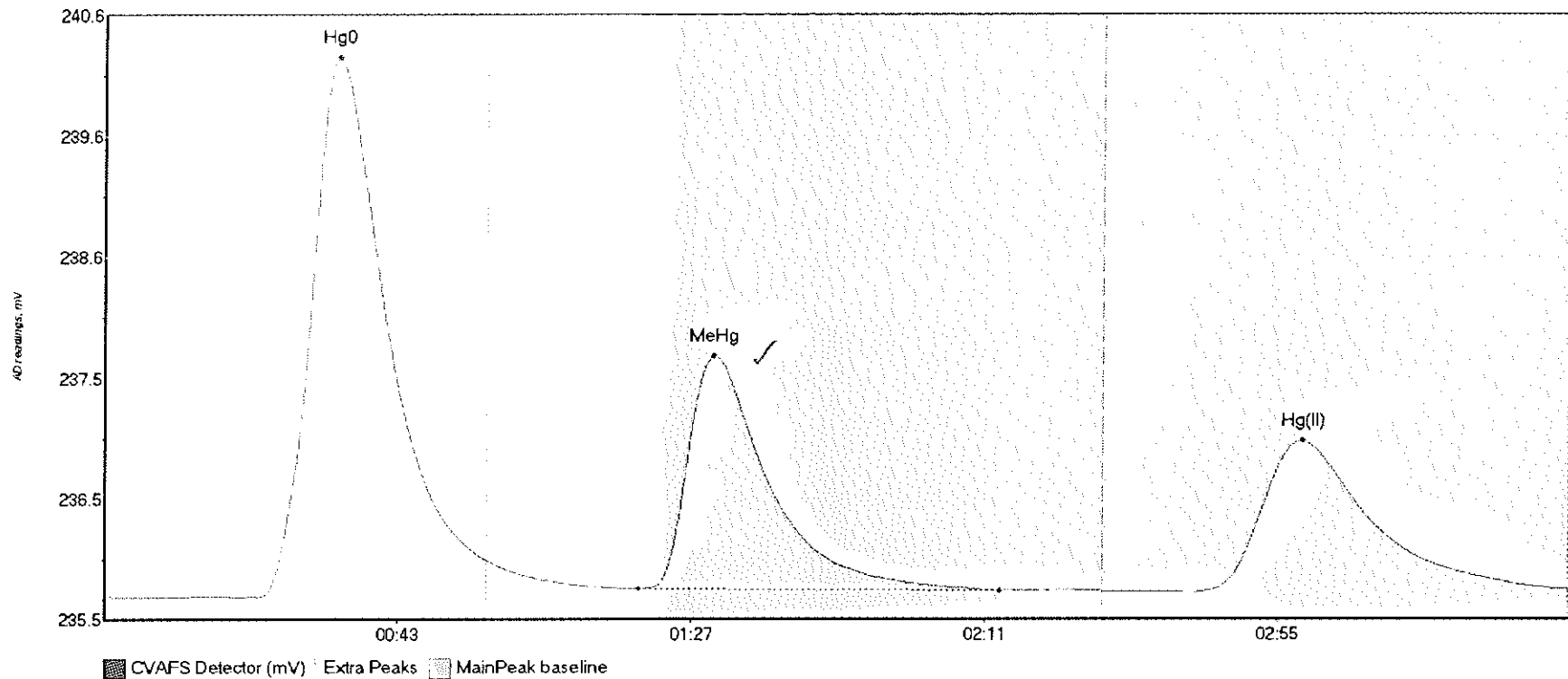
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1608071-11RE1 H	91.381	22.8	57.5	235.65	235.72	31.5	0.847	CT	235.6566	0.00	0.05	
1608071-11RE1 M	600.990	80.2	137.9	235.69	235.70	91.6	4.298	OK	235.6566	0.00	0.05	
1608071-11RE1 H	180.385	163.4	219.8	235.69	235.71	179.3	1.011	CT	235.6566	0.00	0.65	

#33: 1608072-02RE1



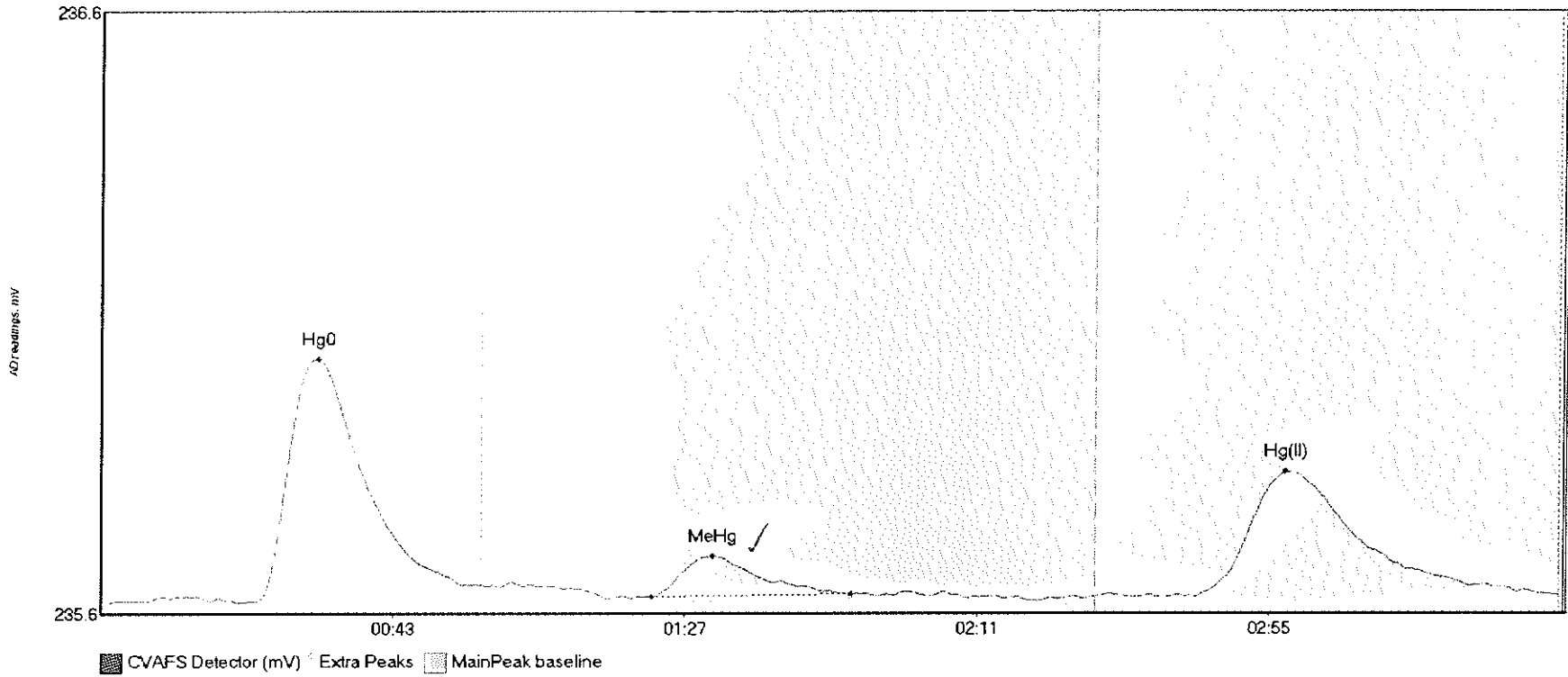
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608072-02RE1 H	54.867	20.4	48.7	235.64	235.71	31.5	0.560	OK	235.6386	0.00	0.05	
1608072-02RE1 M	490.758	80.9	130.5	235.71	235.71	91.3	3.582	OK	235.6386	0.00	0.05	
1608072-02RE1 H	76.280	163.9	217.7	235.67	235.69	179.2	0.424	OK	235.6386	0.00	0.05	

#34: SEQ-CCV2



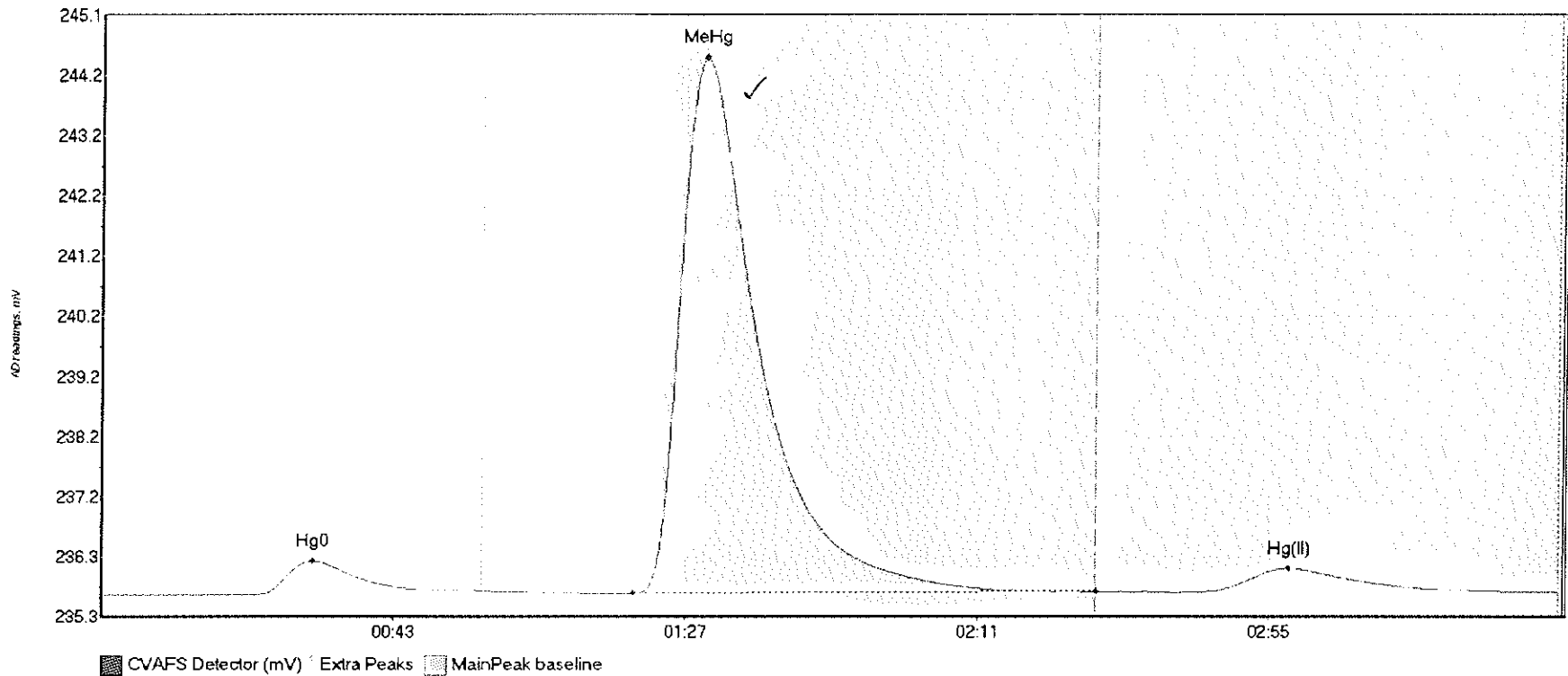
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV2 Hg0	571.775	23.1	57.5	235.65	235.96	35.1	4.619	CT	235.6470	0.00	0.07	
SEQ-CCV2 MeHg	281.346	80.1	134.3	235.71	235.70	91.5	2.000	OK	235.6470	0.00	0.07	
SEQ-CCV2 Hg(II)	238.485	163.7	219.8	235.69	235.71	179.7	1.299	CT	235.6470	0.00	0.07	

#35: SEQ-CCB2



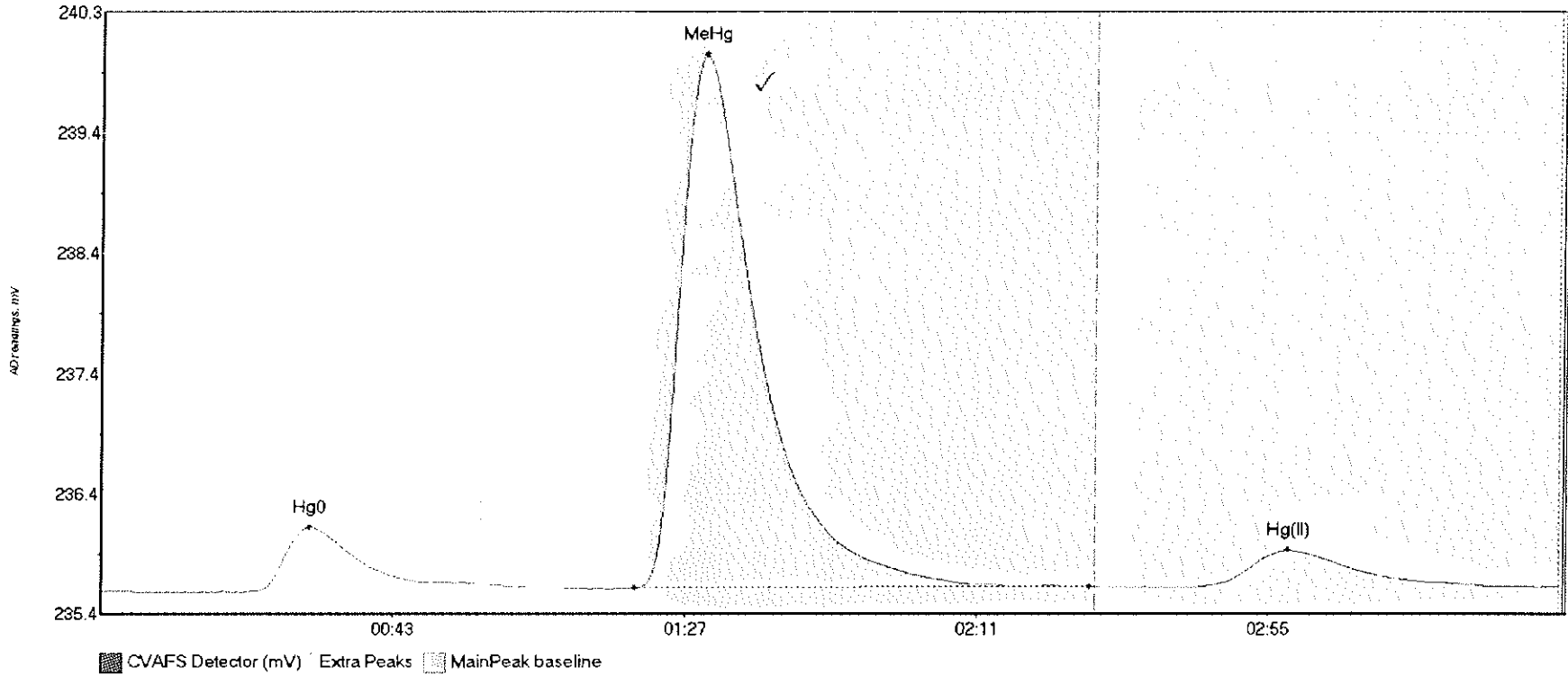
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	ElDev	ElShift	Comment
SEQ-CCB2 Hg0	50.526	23.4	57.5	235.65	235.67	32.8	0.404	CT	235.6426	0.00	0.02	
SEQ-CCB2 MeHg	8.963	83.0	113.1	235.65	235.66	92.3	0.068	OK	235.6426	0.00	0.02	
SEQ-CCB2 Hg(II)	38.206	165.2	216.7	235.65	235.66	178.5	0.268	OK	235.6426	0.00	0.02	

#36: 1607903-34RE1



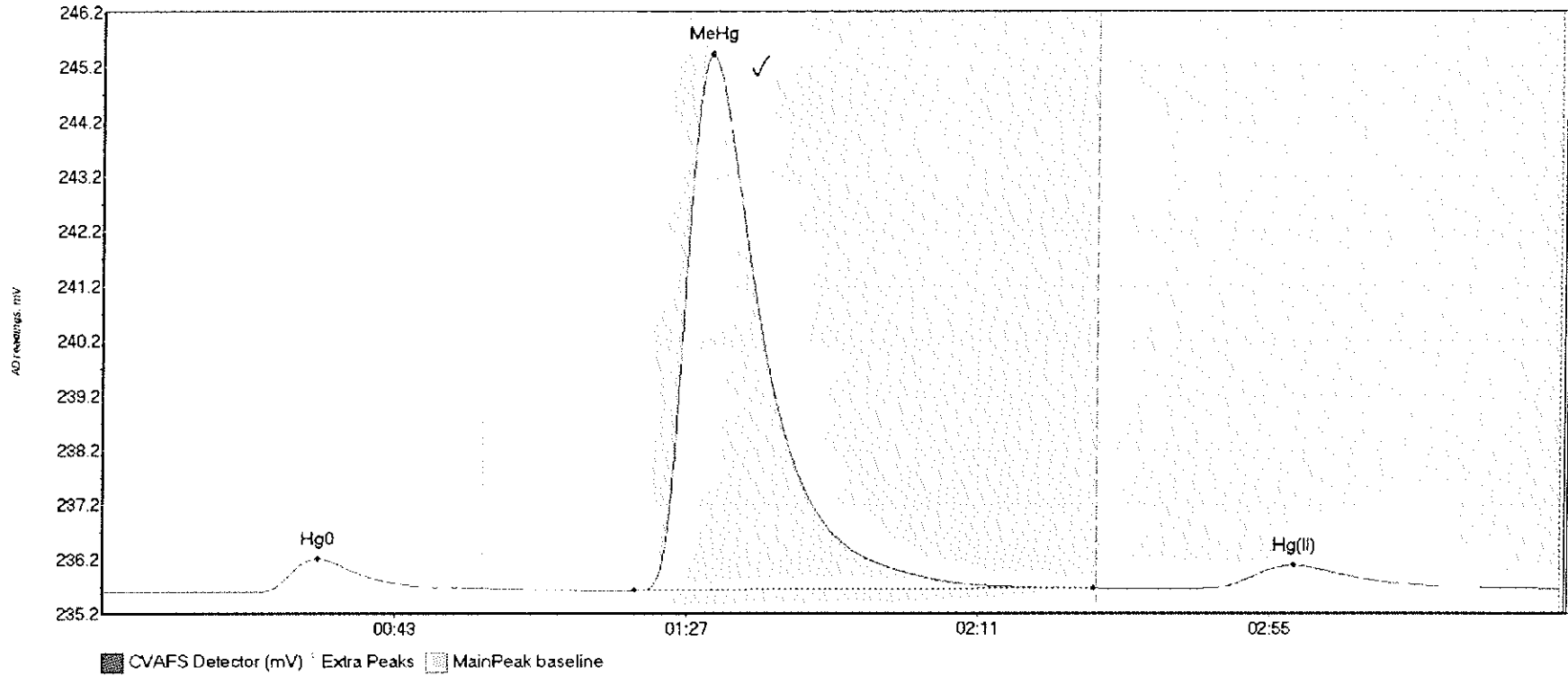
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-34RE1 H	63.422	22.3	57.5	235.63	235.69	31.9	0.551	CT	235.6281	0.00	0.04	
1607903-34RE1 M	1210.117	80.1	150.0	235.65	235.68	91.0	8.785	CT	235.6281	0.00	0.04	
1607903-34RE1 H	69.925	162.6	212.3	235.66	235.68	179.0	0.395	OK	235.6281	0.00	0.04	

#37: 1607903-35RE1



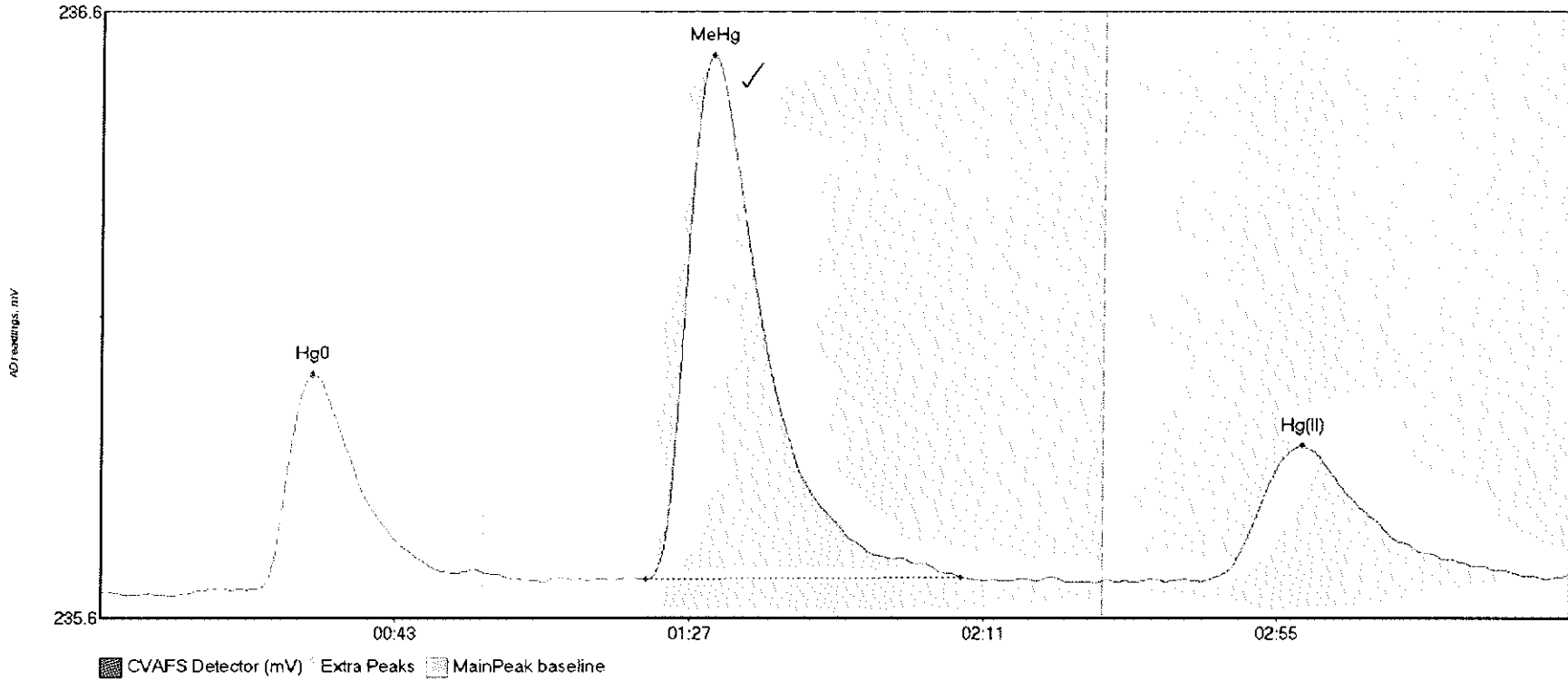
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-35RE1 H	61.226	21.8	57.5	235.63	235.69	31.5	0.525	CP	235.6335	0.00	0.04	
1607903-35RE1 M	596.484	80.5	149.1	235.66	235.67	91.0	4.336	OK	235.6335	0.00	0.04	
1607903-35RE1 H	53.352	164.4	216.8	235.67	235.67	179.1	0.302	OK	235.6335	0.00	0.04	

#38: 1607903-36RE1



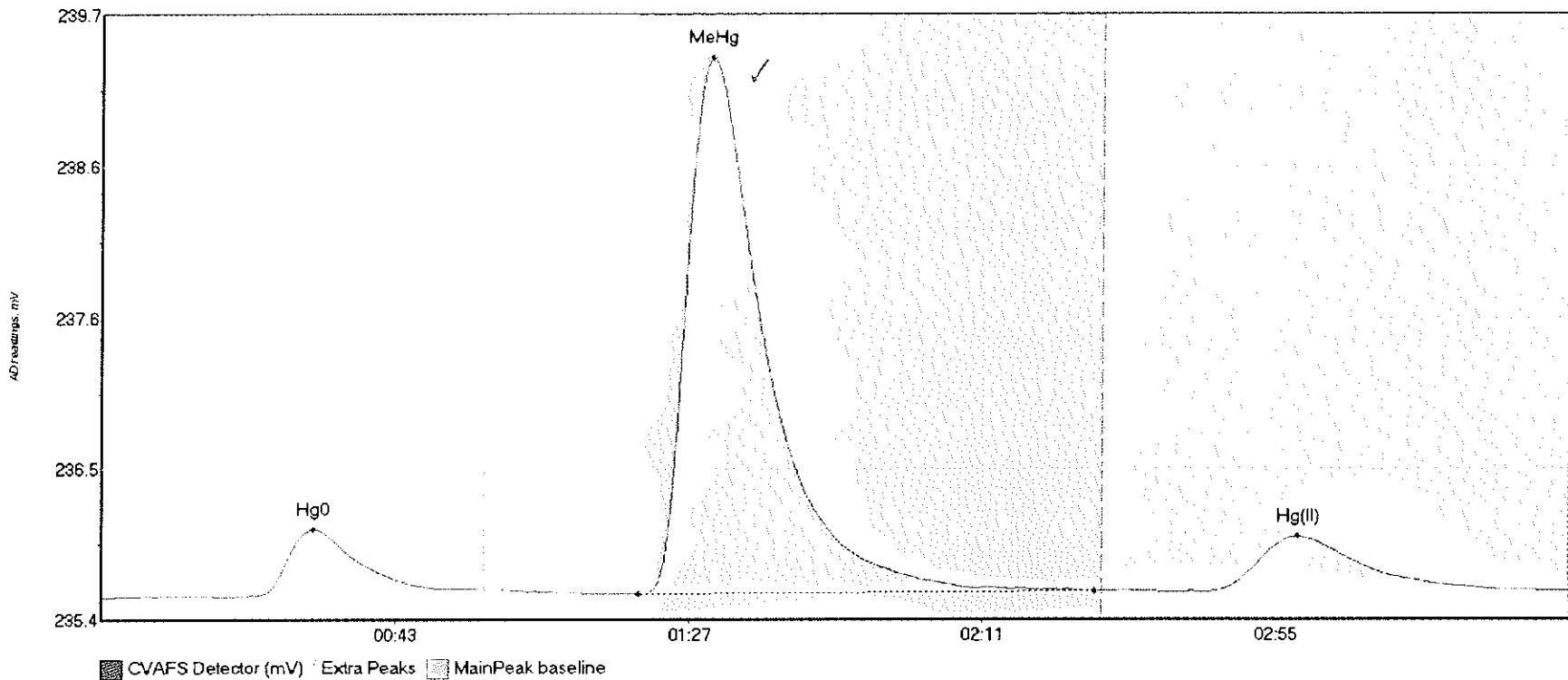
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	StDev	BlShift	Comment
1607903-36RE1 H	68.745	20.7	57.5	235.62	235.69	32.5	0.603	CF	235.6128	0.00	0.06	
1607903-36RE1 M	1343.670	80.1	149.4	235.65	235.68	91.7	9.779	OK	235.6128	0.00	0.06	
1607903-36RE1 H	73.986	164.3	215.6	235.67	235.68	179.7	0.431	OK	235.6128	0.00	0.06	

#39: 1607903-38RE1



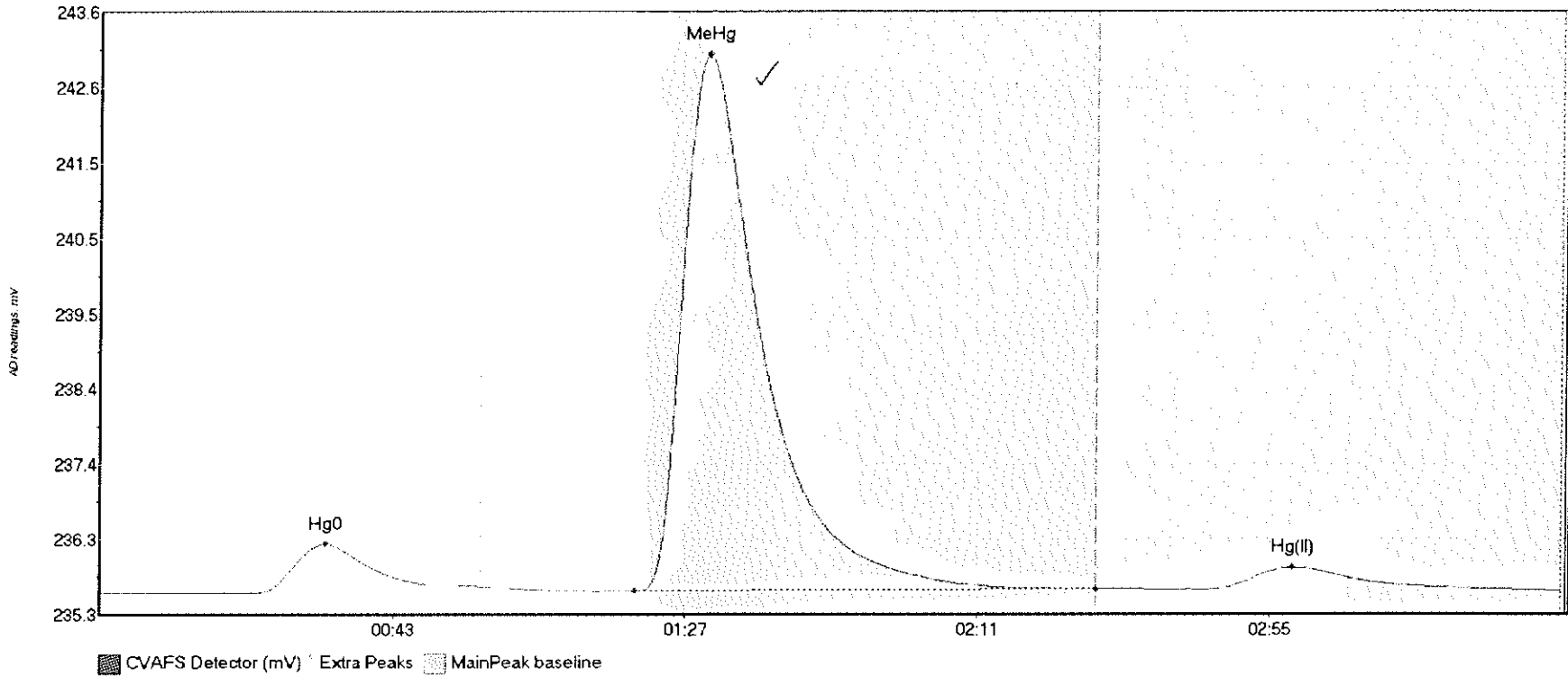
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-38RE1 H	42.933	23.2	53.2	235.62	235.65	31.6	0.376	OK	235.6163	0.00	0.03	
1607903-38RE1 M	123.932	81.6	128.8	235.64	235.64	91.3	0.917	OK	235.6163	0.00	0.03	
1607903-38RE1 H	43.822	164.9	216.2	235.63	235.64	179.7	0.238	OK	235.6163	0.00	0.03	

#40: 1607903-39RE1



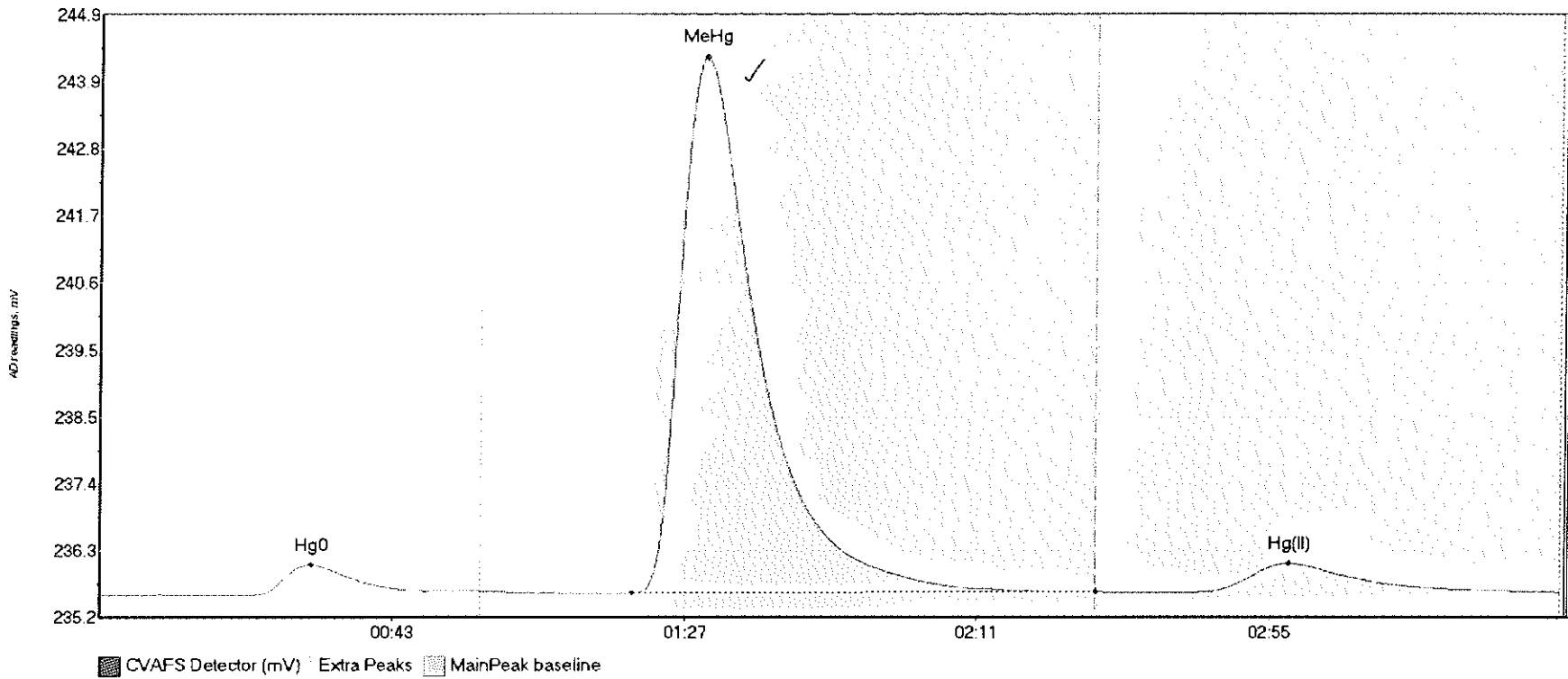
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	StDev	BlShift	Comment
1607903-39RE1 H	53.467	0.1	57.5	235.59	235.65	31.7	0.481	CT	235.5922	0.00	0.05	
1607903-39RE1 M	518.286	80.5	148.7	235.62	235.64	91.3	3.760	OK	235.5922	0.00	0.05	
1607903-39RE1 H	68.653	165.3	216.7	235.63	235.64	179.3	0.388	OK	235.5922	0.00	0.05	

#41: 1607903-43RE1



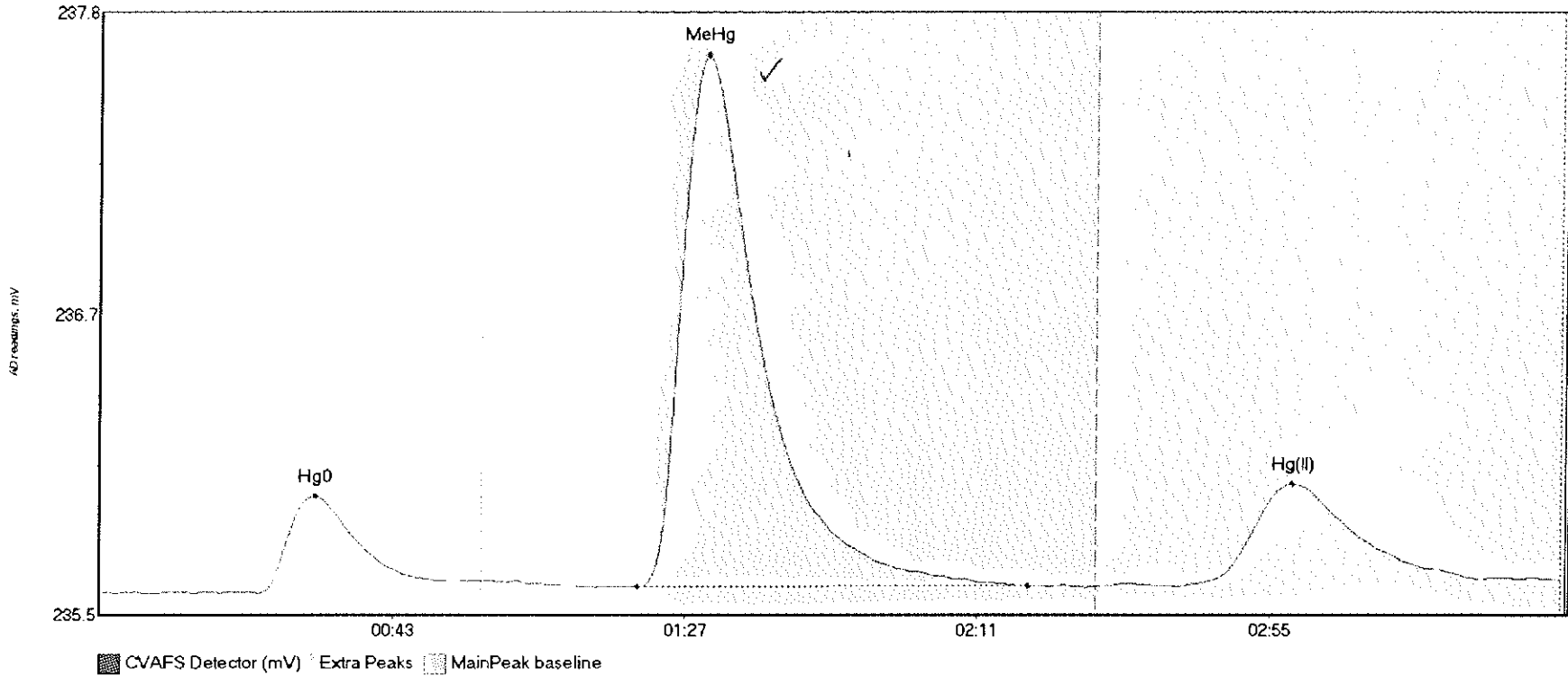
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-43RE1 H	80.840	23.0	57.5	235.61	235.69	33.9	0.676	CT	235.6063	0.00	0.03	
1607903-43RE1 M	1024.903	80.4	149.9	235.63	235.66	91.4	7.401	OK	235.6063	0.00	0.03	
1607903-43RE1 H	49.804	166.3	208.1	235.65	235.66	179.4	0.305	OK	235.6063	0.00	0.03	

#42: 1607903-44RE1



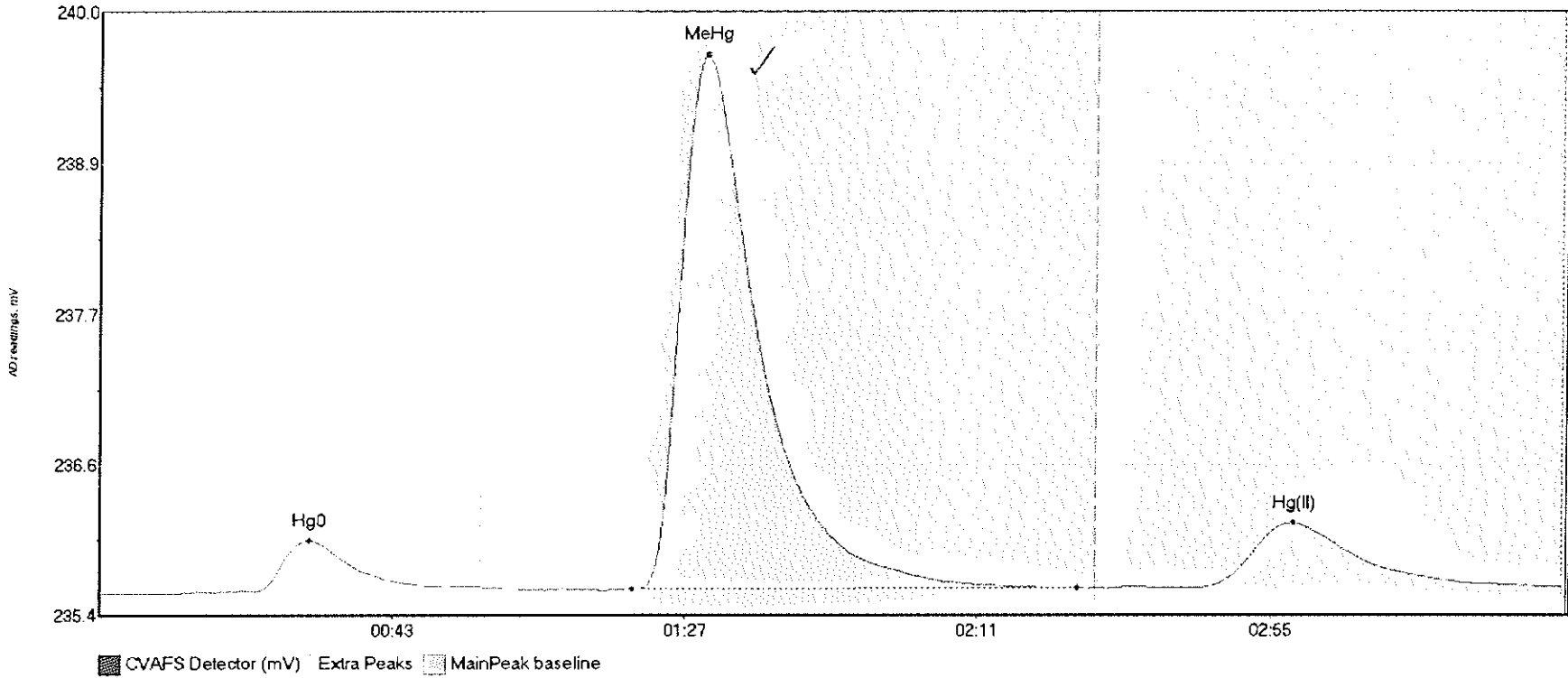
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-44RE1 H	53.483	16.0	57.5	235.59	235.66	31.8	0.490	CT	235.5844	0.00	0.06	
1607903-44RE1 M	1181.570	80.1	150.0	235.63	235.65	91.0	8.617	CT	235.5844	0.00	0.06	
1607903-44RE1 H	82.528	165.1	216.7	235.64	235.65	179.0	0.457	OK	235.5844	0.00	0.06	

#43: 1608071-03RE1



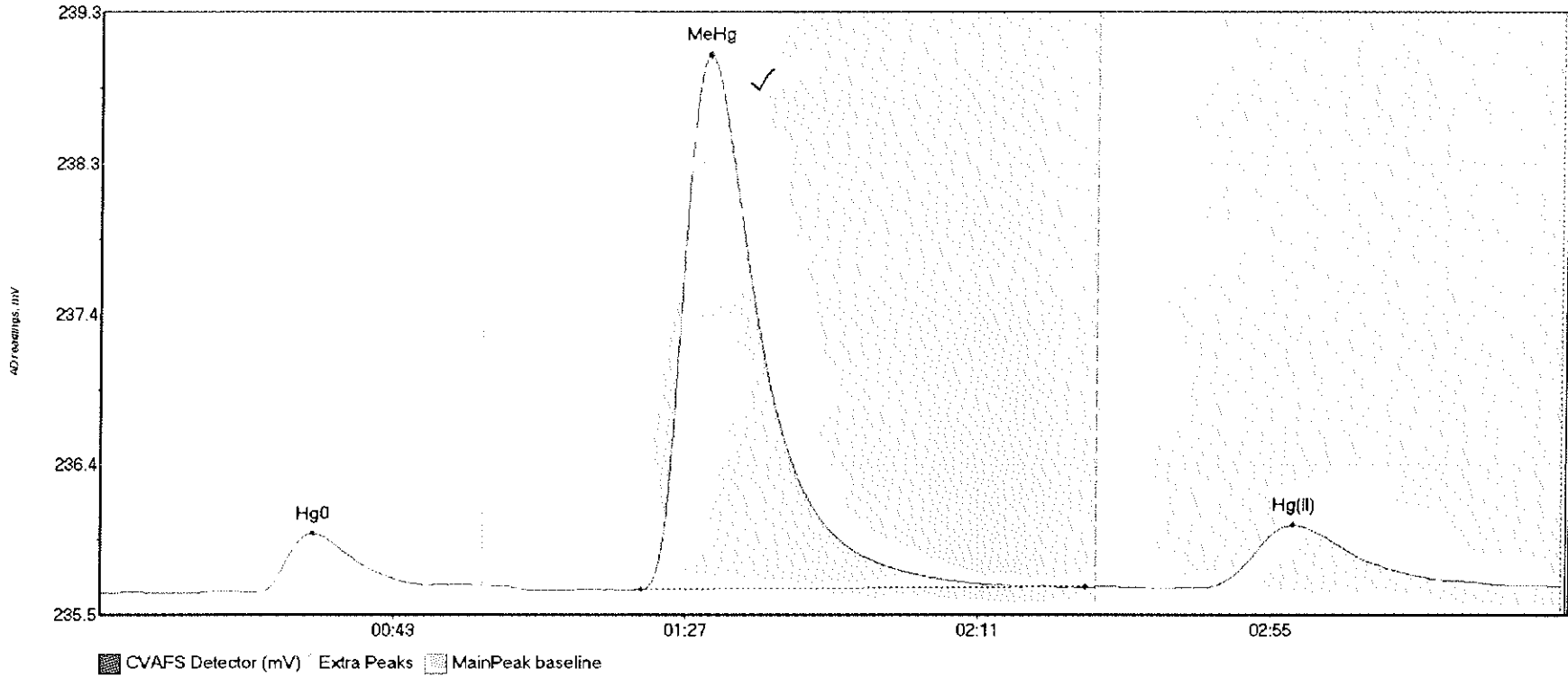
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-03RE1 H	41.789	23.8	55.3	235.59	235.64	32.3	0.372	OK	235.5974	0.00	0.05	
1608071-03RE1 M	281.289	80.9	139.8	235.62	235.62	91.3	2.037	OK	235.5974	0.00	0.05	
1608071-03RE1 H	69.399	161.9	218.9	235.62	235.65	179.4	0.393	OK	235.5974	0.00	0.05	

#44: 1608071-04RE1



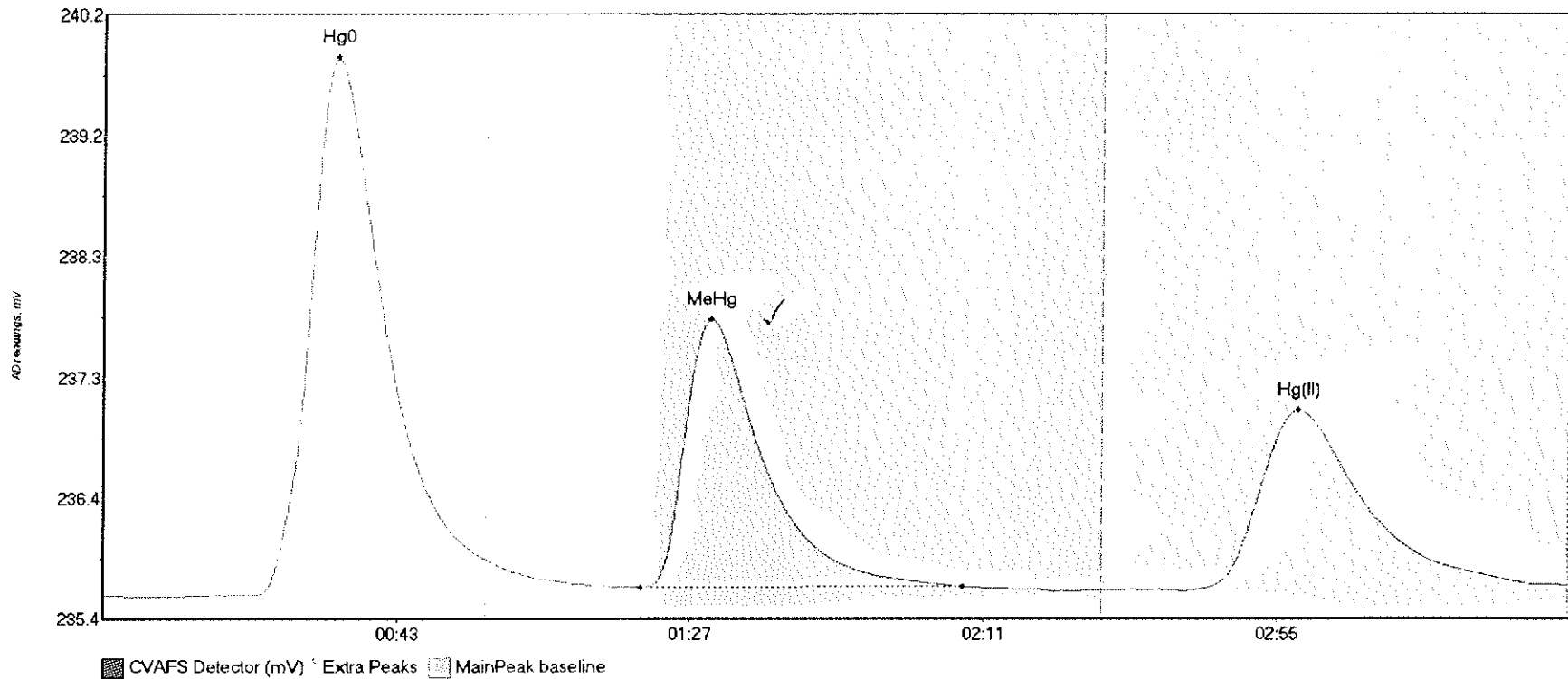
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-04RE1 H	44.698	11.6	57.5	235.60	235.65	31.6	0.398	CT	235.6031	0.00	0.05	
1608071-04RE1 M	550.392	80.2	147.2	235.64	235.64	91.1	4.025	OK	235.6031	0.00	0.05	
1608071-04RE1 H	87.348	165.7	217.5	235.65	235.65	179.5	0.486	OK	235.6031	0.00	0.05	

#45: 1608071-10RE1



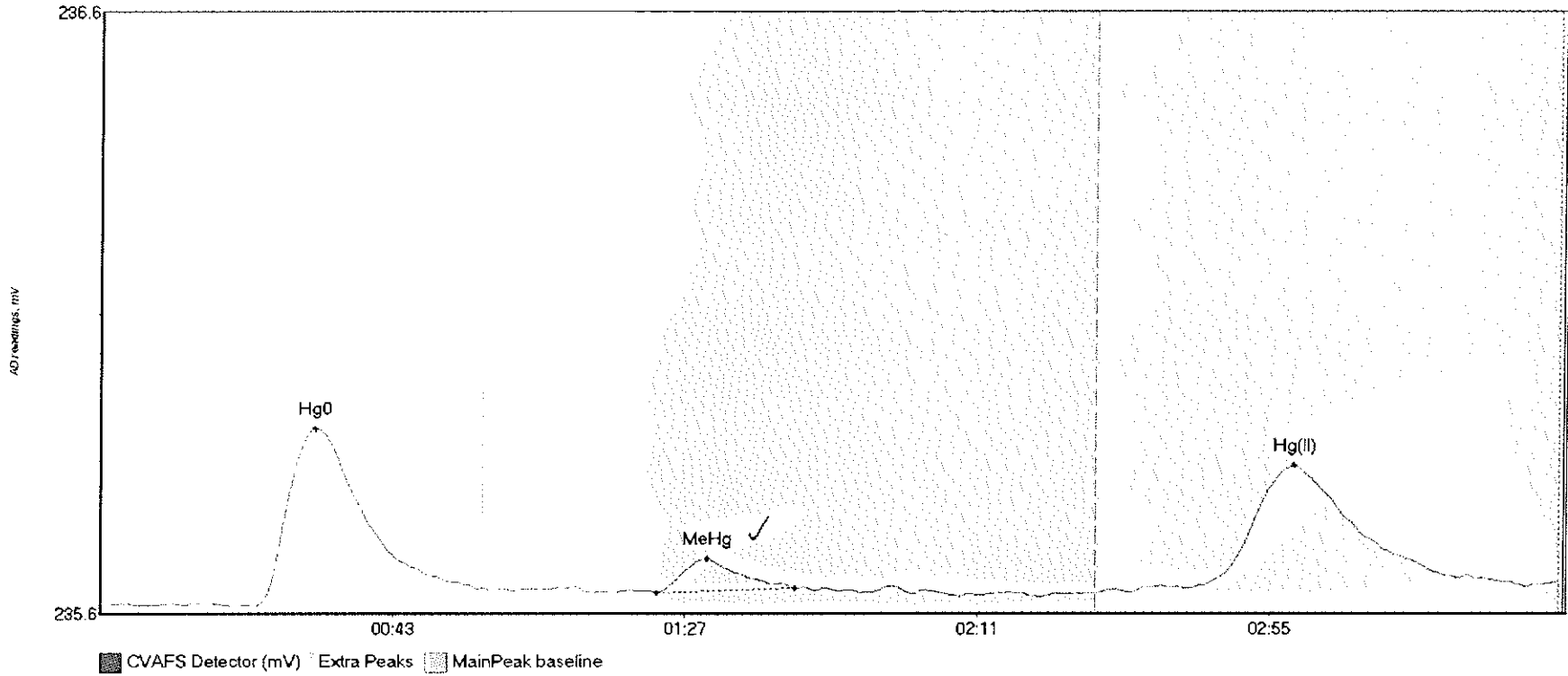
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-10RE1 H	39.101	13.7	49.0	235.61	235.66	32.0	0.380	OK	235.6084	0.00	0.04	
1608071-10RE1 M	466.887	81.4	148.3	235.63	235.65	91.5	3.390	OK	235.6084	0.00	0.04	
1608071-10RE1 H	69.470	166.0	214.2	235.65	235.66	179.5	0.394	OK	235.6084	0.00	0.04	

#46: SEQ-CCV3



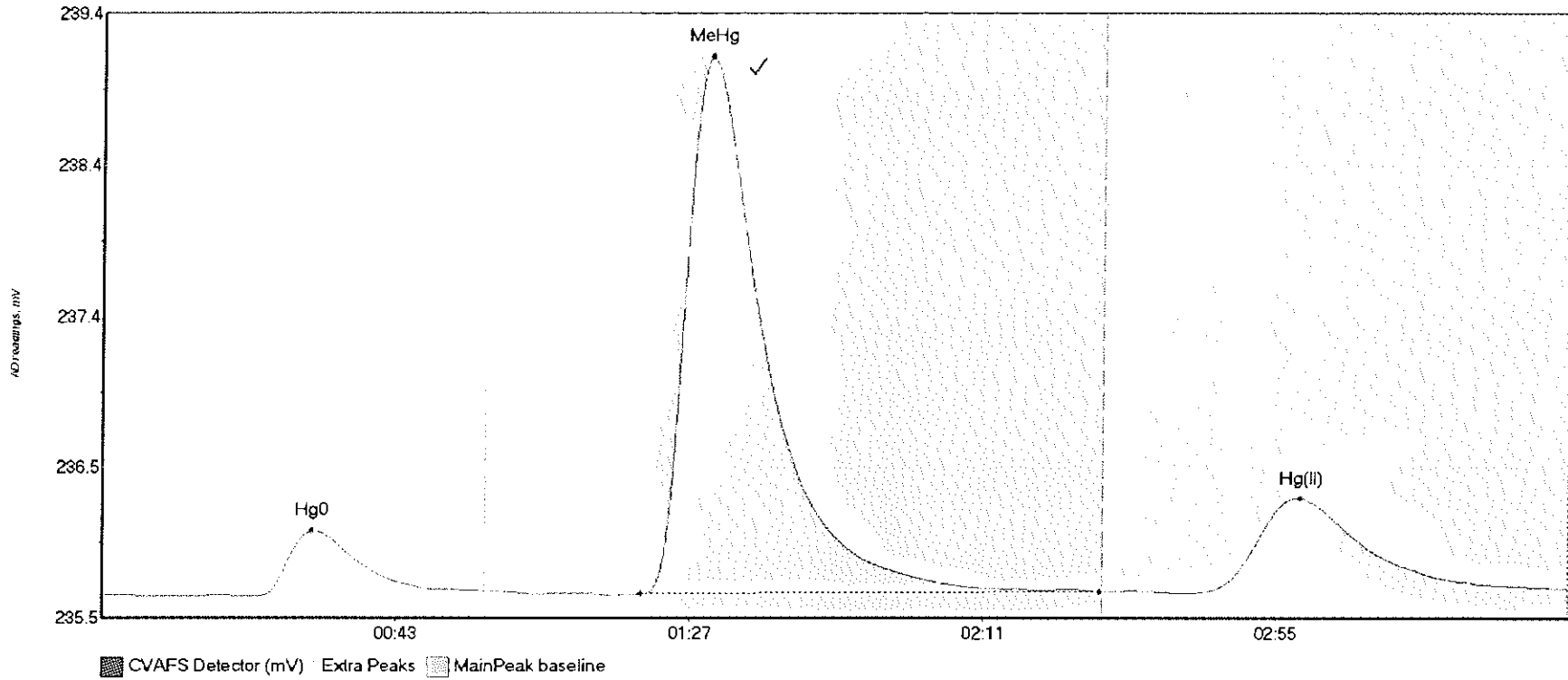
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV3 Hg0	504.875	15.5	57.5	235.61	235.89	35.0	4.234	CT	235.6049	0.00	0.09	
SEQ-CCV3 MeHg	284.650	80.8	128.9	235.67	235.68	91.2	2.113	OK	235.6049	0.00	0.09	
SEQ-CCV3 Hg(II)	254.074	162.4	219.8	235.65	235.69	179.2	1.422	CT	235.6049	0.00	0.09	

#47: SEQ-CCB3



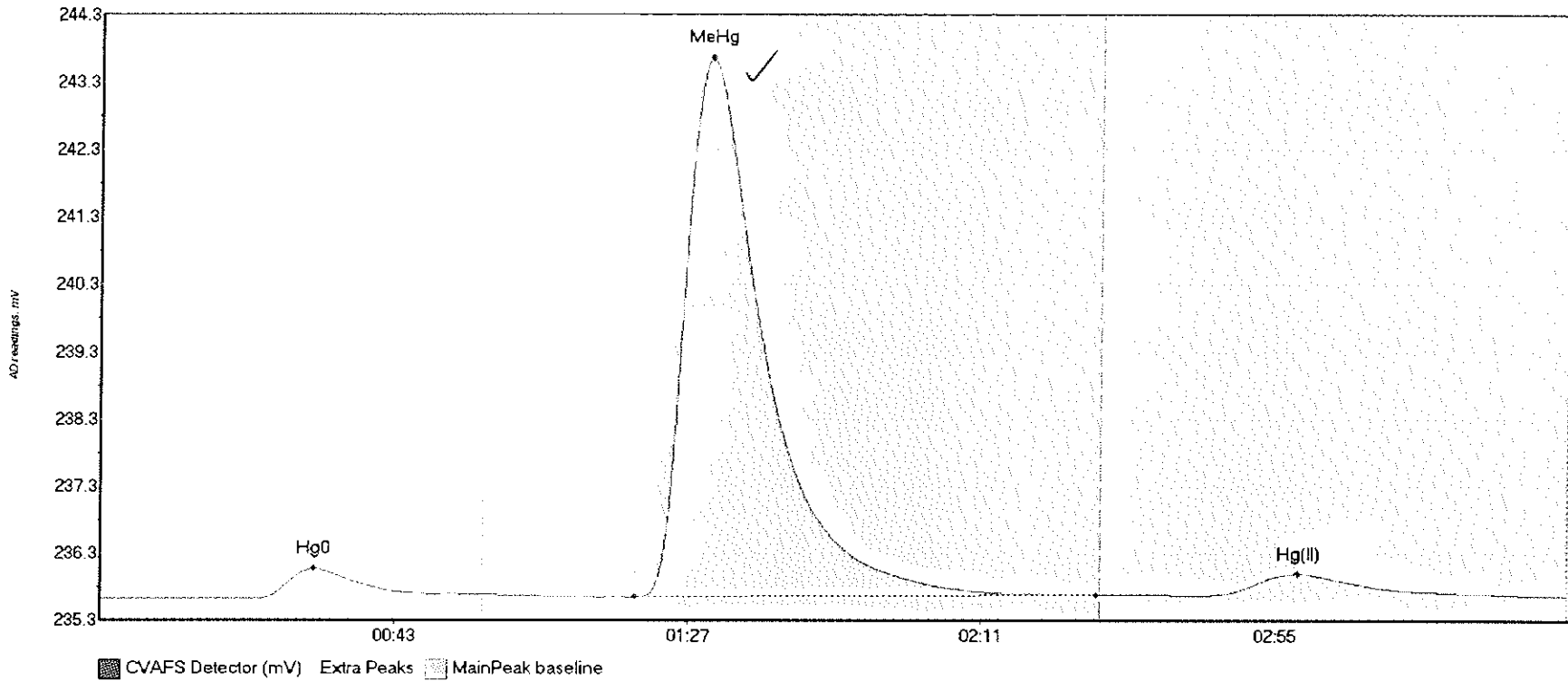
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	37.257	23.0	56.8	235.61	235.64	32.5	0.297	OK	235.6187	0.00	0.04	
SEQ-CCB3 MeHg	5.174	83.8	104.6	235.64	235.64	91.4	0.056	OK	235.6187	0.00	0.04	
SEQ-CCB3 Hg(II)	38.544	155.3	214.9	235.64	235.65	179.7	0.210	OK	235.6187	0.00	0.04	

#48: 1608071-02RE1/2 *Draw 4/30/14*



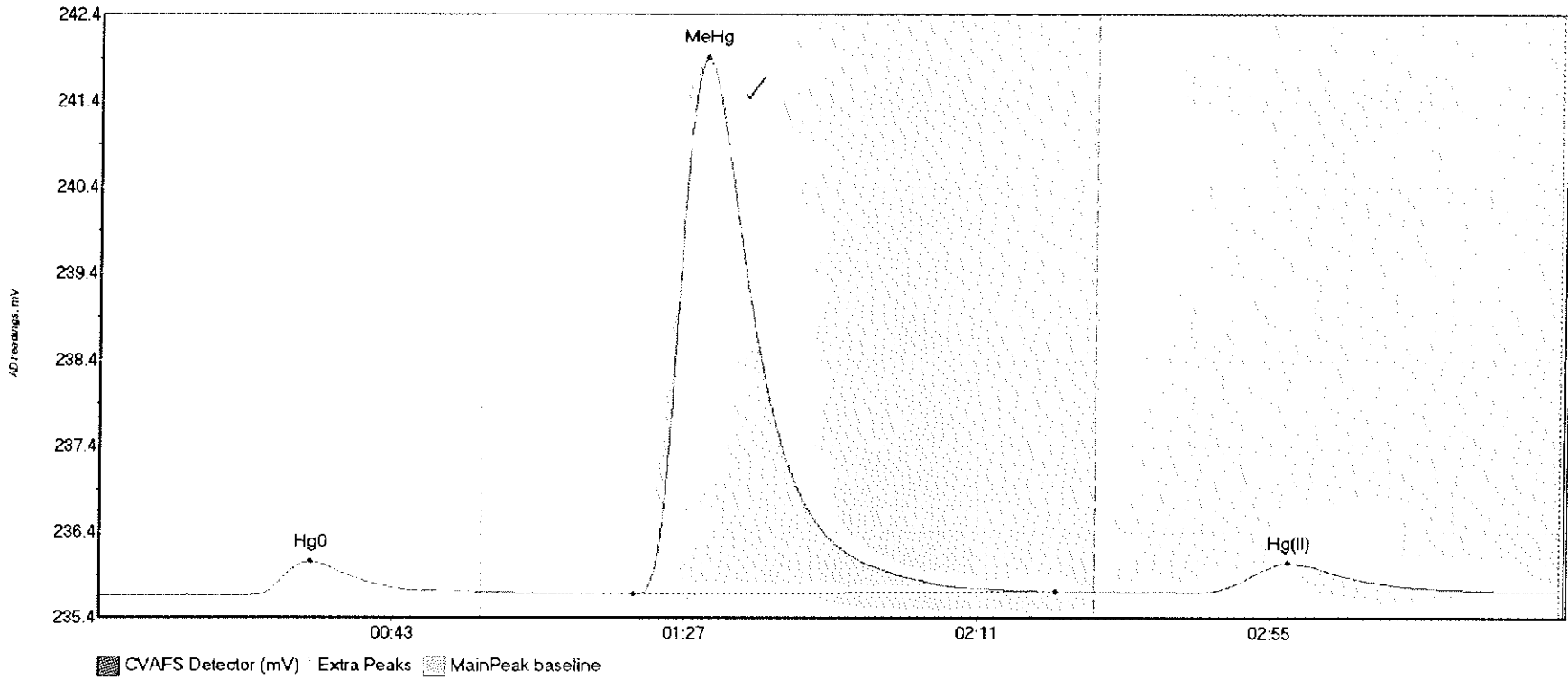
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1608071-02RE1 H	49.817	22.8	57.5	235.62	235.66	31.5	0.424	CT	235.6332	0.00	0.04	
1608071-02RE1 M	476.967	80.7	149.5	235.64	235.66	91.1	3.452	OK	235.6332	0.00	0.04	
1608071-02RE1 H	110.814	163.4	218.1	235.64	235.67	179.7	0.613	OK	235.6332	0.00	0.04	

#49: F609212-MS5



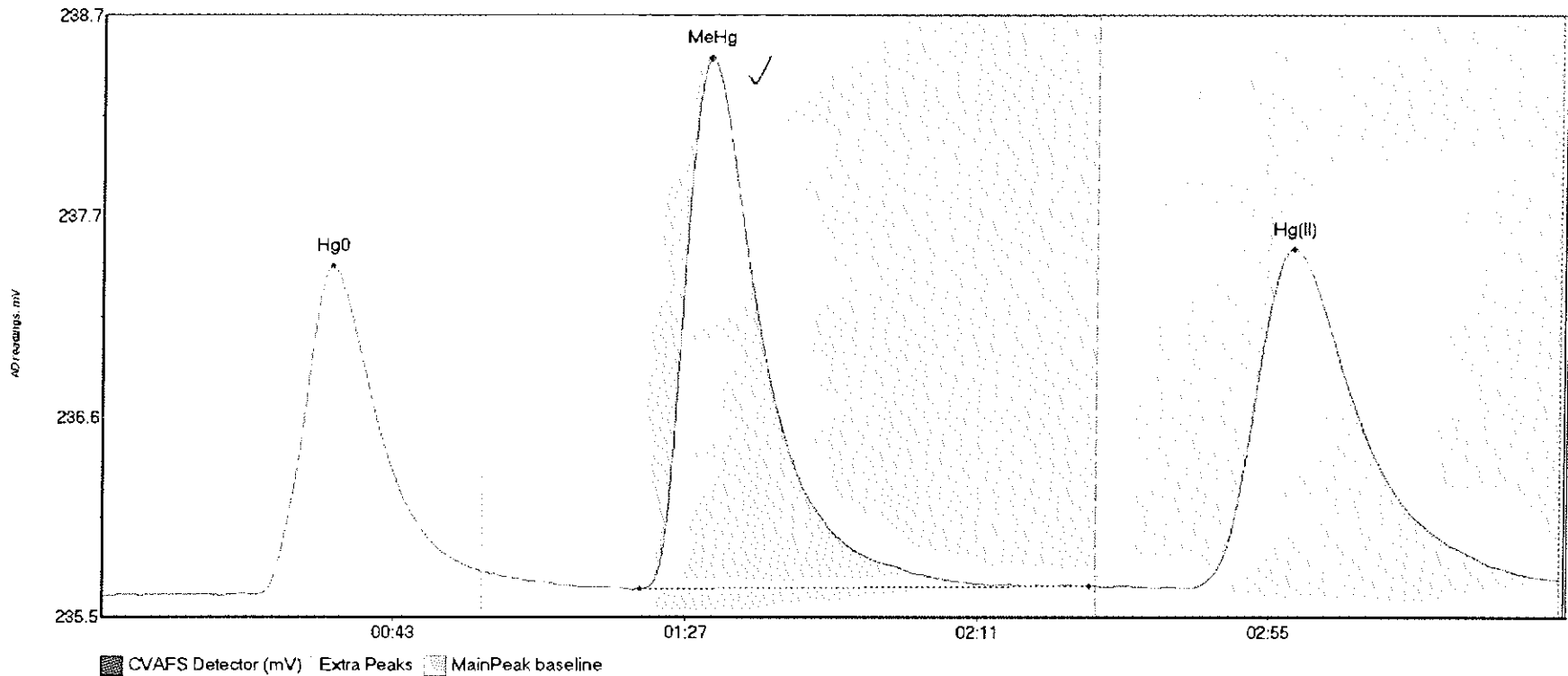
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-MS5 Hg0	49.734	23.5	57.5	235.62	235.68	32.0	0.443	CT	235.6194	0.00	0.05	
F609212-MS5 MeH	1097.402	80.2	149.3	235.64	235.68	91.3	7.986	OK	235.6194	0.00	0.05	
F609212-MS5 Hg(	55.394	165.1	210.2	235.67	235.68	179.5	0.324	OK	235.6194	0.00	0.05	

#50: F609212-MSD5



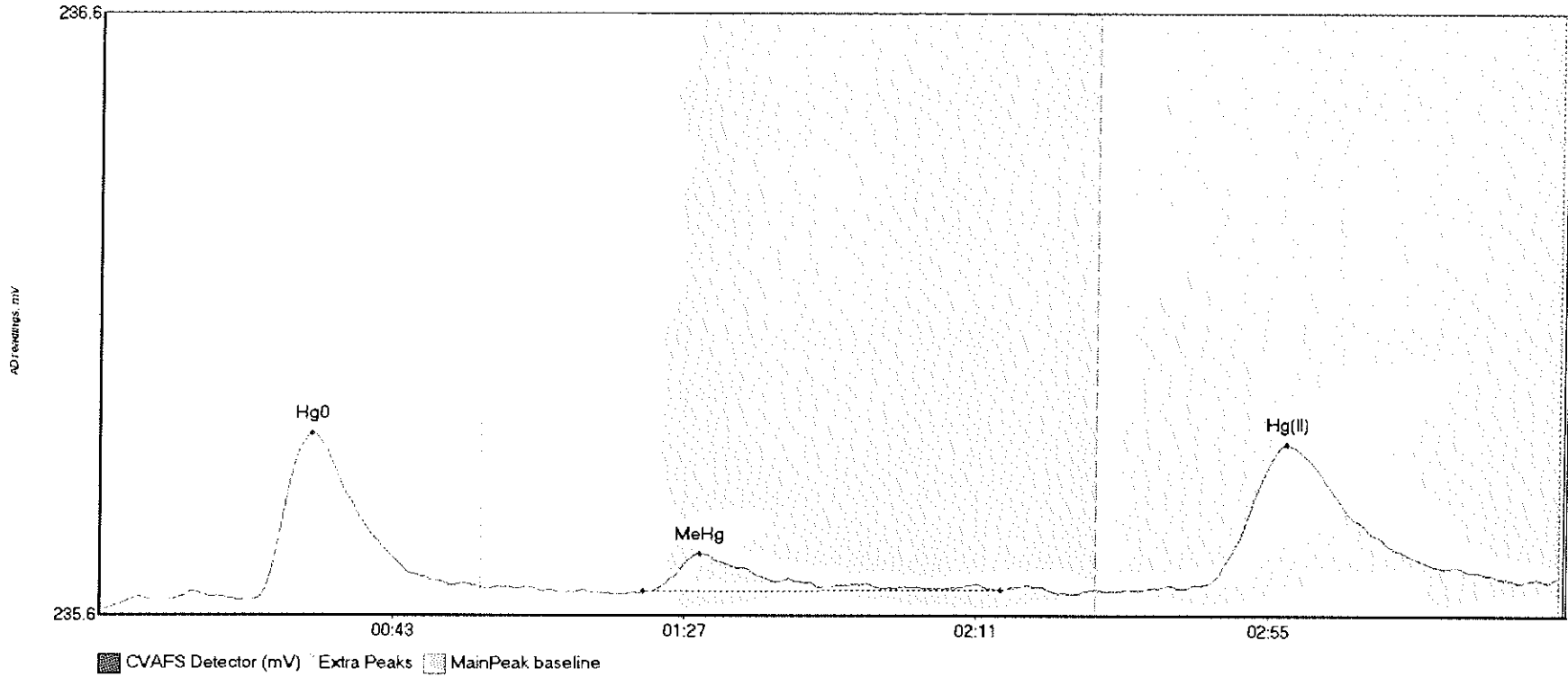
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	ElDev	ElShift	Comment
F609212-MSD5 Hg	45.569	22.3	57.5	235.63	235.67	31.8	0.392	CT	235.6313	0.00	0.05	
F609212-MSD5 Me	855.669	80.4	144.0	235.65	235.68	91.1	6.211	OK	235.6313	0.00	0.05	
F609212-MSD5 Hg	56.580	165.4	212.6	235.67	235.68	178.9	0.336	OK	235.6313	0.00	0.05	

#51: SEQ-CCV4



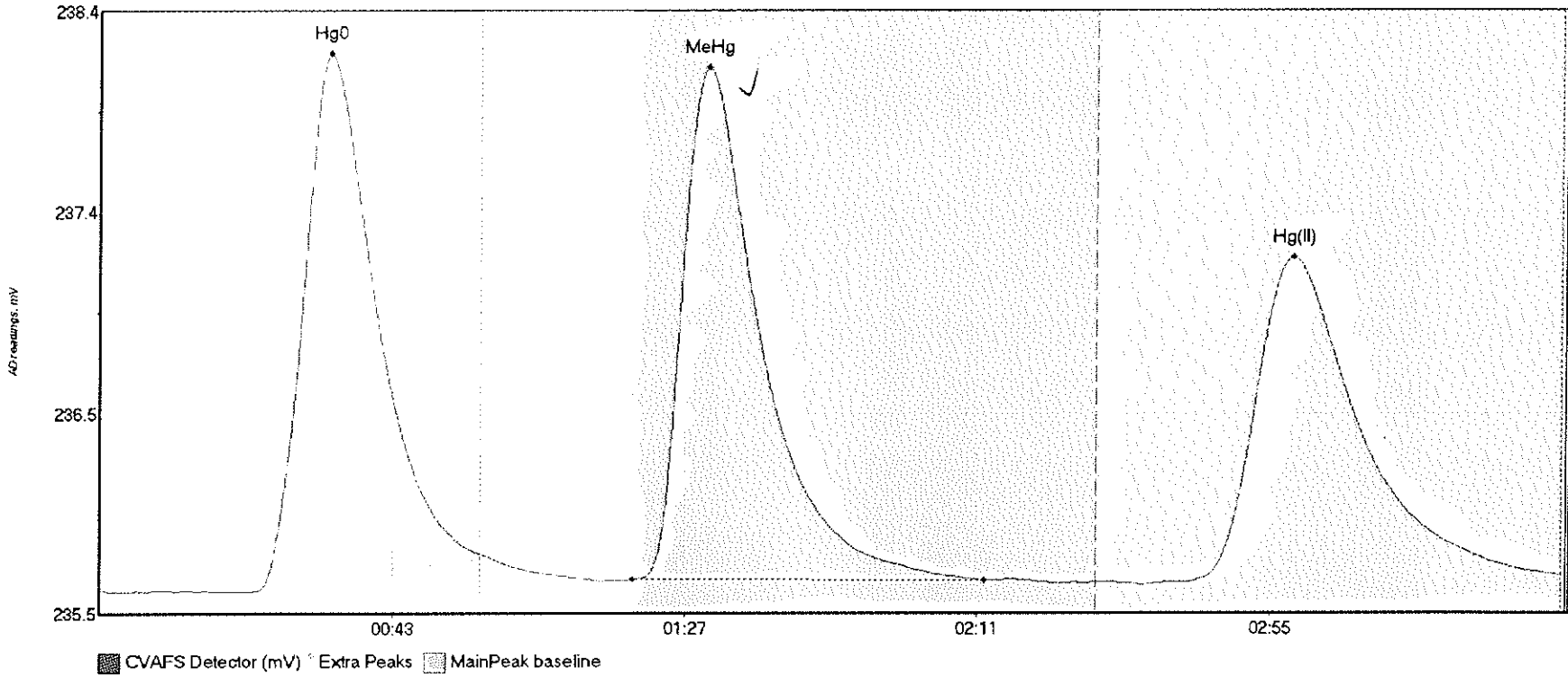
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	214.923	18.1	57.5	235.64	235.77	34.7	1.751	CF	235.6399	0.00	0.09	
SEQ-CCV4 MeHg	389.637	81.1	148.9	235.67	235.69	91.5	2.823	OK	235.6399	0.00	0.09	
SEQ-CCV4 Hg(II)	325.914	164.3	219.8	235.68	235.72	179.6	1.805	CF	235.6399	0.00	0.09	

#52: SEQ-CCB4 ✓



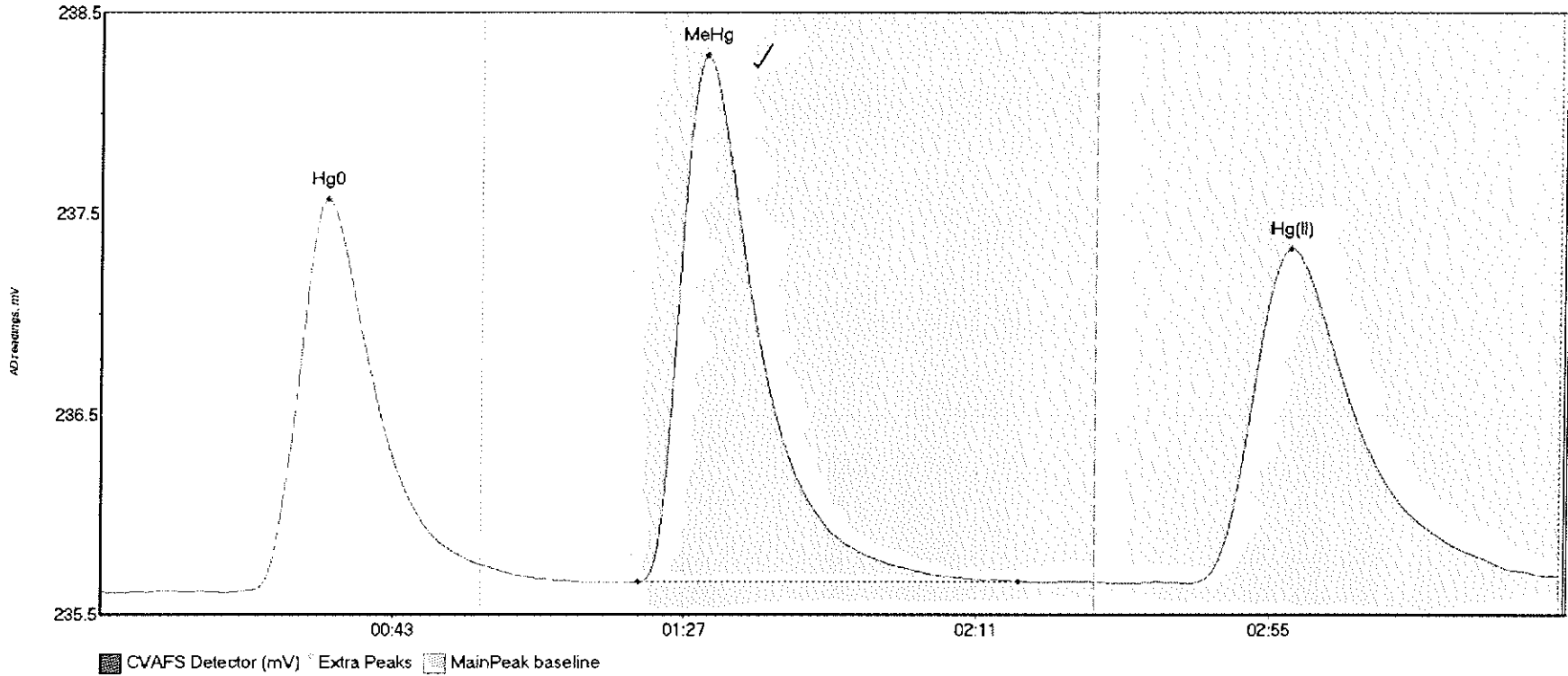
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	35.869	0.8	57.5	235.63	235.67	31.9	0.292	CT	235.6340	0.00	0.05	
SEQ-CCB4 MeHg	9.597	81.9	135.8	235.66	235.66	90.3	0.063	OK	235.6340	0.00	0.05	
SEQ-CCB4 Hg(II)	42.677	163.7	213.9	235.67	235.68	178.7	0.238	OK	235.6340	0.00	0.05	

#53: SEQ-CCV5



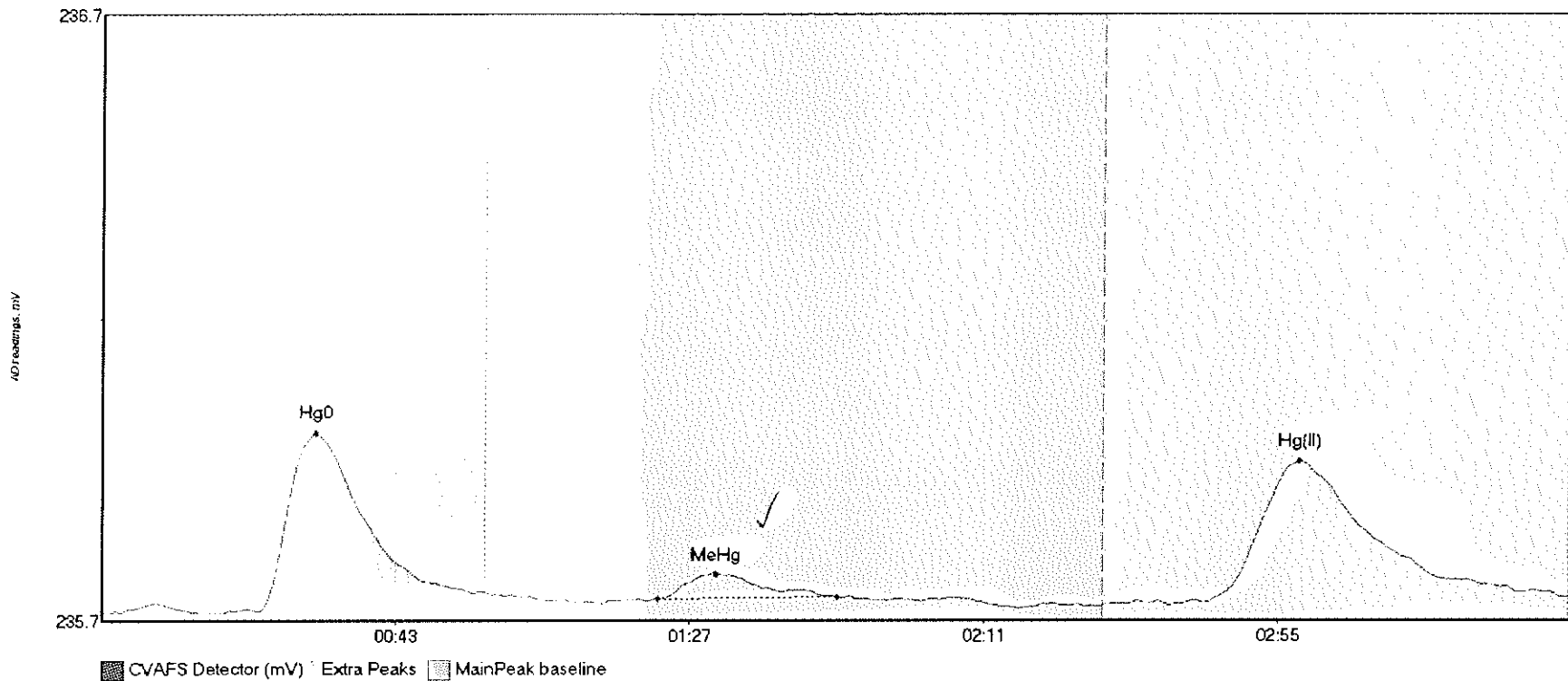
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	308.864	22.5	57.5	235.65	235.82	34.6	2.534	CT	235.6473	0.00	0.07	
SEQ-CCV5 MeHg	328.980	80.1	133.1	235.70	235.70	91.4	2.412	OK	235.6473	0.00	0.07	
SEQ-CCV5 Hg(II)	274.231	163.7	219.8	235.69	235.72	179.5	1.531	CT	235.6473	0.00	0.07	

#54: SEQ-CCV6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
SEQ-CCV6 Hg0	235.537	19.1	57.5	235.65	235.79	34.1	1.907	CP	235.6573	0.00	0.08	
SEQ-CCV6 MeHg	346.587	81.2	138.4	235.71	235.71	91.2	2.549	OK	235.6573	0.00	0.08	
SEQ-CCV6 Hg(II)	291.523	164.3	219.5	235.70	235.74	179.2	1.621	OK	235.6573	0.00	0.08	

#55: SEQ-CCB5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB5 Hg0	36.102	23.5	55.4	235.67	235.70	32.1	0.294	OK	235.6638	0.00	0.03	
SEQ-CCB5 MeHg	5.257	83.3	110.1	235.69	235.69	92.0	0.042	OK	235.6638	0.00	0.03	
SEQ-CCB5 Hg(II)	43.522	165.2	218.7	235.68	235.69	179.2	0.232	OK	235.6638	0.00	0.03	

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

Analyst: Ryan Nelson	Sequence #: 6I09004
Reviewer: DAN WEHART 9/30/16	Dataset ID #: MHg27001-160930-1
Date:	WO #: Various
Batch #(s): F609212	Client(s): Various

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input 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:	Reviewer Initials:		
1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	R	<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	9/30/16	<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	<input checked="" type="checkbox"/>
(d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries).	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(f) Check and compare masses (review prep bench sheet)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(g) Check and compare initial and final volumes	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(h) Do aliquots and dilutions written on benchsheet match those in Excel?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(i) Is the pH>3.0 for all distilled samples?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(j) Is the sequence #, analyst, date, and instrument # on the QC page?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(k) Is the analysis status correct? (analyzed/initial review/reviewed)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(l) Original prep bench sheet added to data package?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
3. High QA? WO#(s)/Client(s):	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		<input checked="" type="checkbox"/>
4. Client specific QC? (if Yes, refer to Project Notes/LIMS)	<input 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	<input checked="" type="checkbox"/>
Comments:				
7. 1st Calibration Standard % Recoveries (65-135%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments:				
8. RSD CF (≤ 15%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments:				

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

Analyst: Ryan Nelson	Sequence #: 6I09004
Reviewer: 0	Dataset ID #: MHg27001-160930-1
Date: 9/30/2016	WO #: Various
Batch #(s): F609212	Client(s): Various

Analyst Initials:

Reviewer Initials:

R

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 type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
13. LCS/LCSD or BS/BSD RPD (< 25%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
14. Water: Average of Preparation Blanks < 0.045 ng/L and standard deviation of 0.015 ng/L?	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____			
15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____	<input 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 checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input 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: <u>QM-02</u>			
23. MSD (ASD) % Recoveries (65-130%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: <u>QM-02</u>			
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 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 #: 6I09004
Reviewer: 0	Dataset ID #: MHg27001-160930-1
Date: 9/30/2016	WO #: Various
Batch #(s): F609212	Client(s): Various

Analyst Initials:

Reviewer Initials:

29. Are re-runs noted with reason?

YES NO N/A

Comments: _____

30. For failing QC (CCV, CCB, PB, BS/BSO, CAL):

YES NO N/A

Was a bubbler and trap test run before the analytical run continued?

Comments: _____

31. Do re-run results compare to initial analysis (< 35% RPD)?

YES NO N/A

Comments: _____

32. Are qualifiers consistent with the data review flowcharts?

YES NO N/A

Comments: QM-02

33. Have non-reportable samples been imported into LIMS and clicked to non-reportable?

YES NO N/A

Comments: _____

34. Have re-extracts been created for non-reportable samples?

YES NO N/A

35. Narrations in MMO box in LIMS?

Comments: _____

36. Are there any HIGH QA projects within the data?

YES NO N/A

If so, place dataset to the QA office.

37. Does the data set need scanning?

YES NO N/A

Files located at: \\Cuprum\gen_admin\Quality Assurance\Training Master\DOCs

38. Date of analyst IDOC/CDOC: 7/19/2016 IDOC/CDOC within last 12 months?

YES NO N/A

39. Date of analyst's SOP reading: 6/8/2016 Current SOP revision?

YES NO N/A

40. Date of LOD: 4/21/2016 LOD within last 3 months (within 12 months for MDN)?

YES NO N/A

41. Date of LOQ: 4/21/2016 LOQ within last 3 months (within 12 months for MDN)?

YES NO N/A

42. If MDN samples, date of last MDL study: _____

43. MDL study within last 12 months?

YES NO N/A

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

Additional Comments:

YES NO



Frontier Global Sciences

Analysis Datasheet for Total Mercury

Date of Analysis: September 19, 2016

Analyst: DMZ

Instrument #: Hg2600-2

Units ng/L

LIMS Sequence #: 6120016, 6120007

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-TBL	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 Type	LabNumber	Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2600-2	DM2	CAL	SEQ-IHL1	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-IHL2	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-IHL3	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	RunEnd	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 Operat: 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 (cif)	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	

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PREPARATION BENCH SHEET

F609420

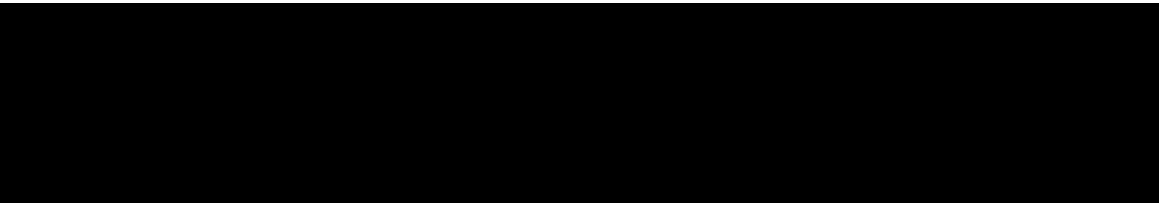
Eurofins Frontier Global Sciences, Inc.

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	-	-	-		

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Date: 9/19/2016

PREPARATION BENCH SHEET

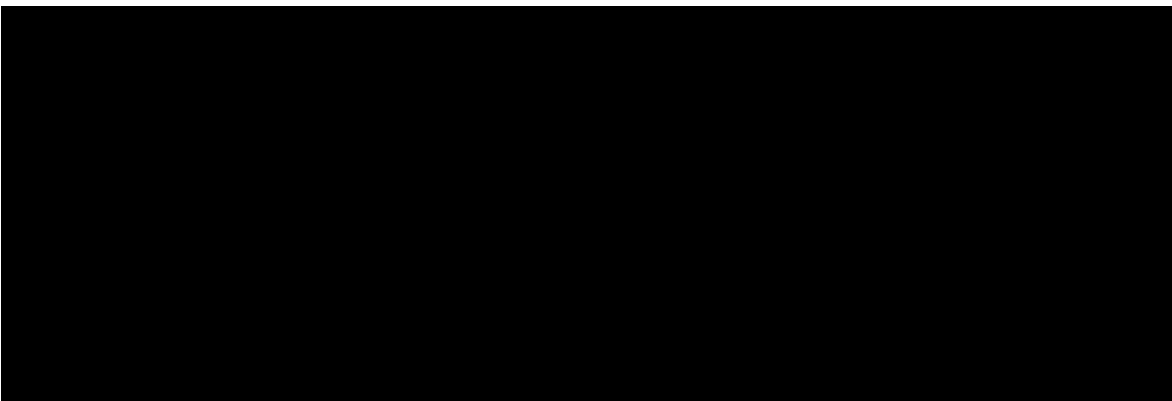
F609427

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	-	-	-		

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Date: 9/8/2016

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

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

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Date: 9/22/2016

PREPARATION BENCH SHEET

2600-2
9/19/16 DM

F609420

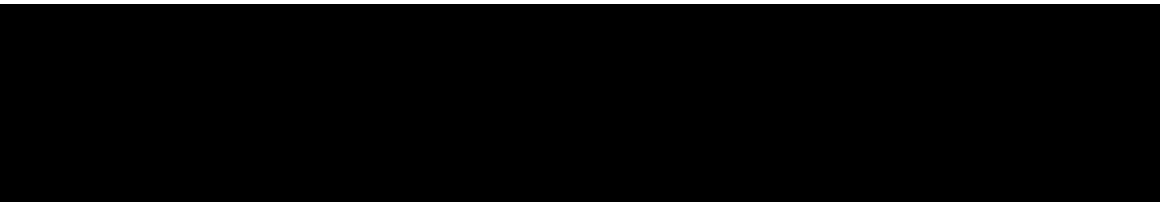
Eurofins Frontier Global Sciences, Inc.

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: LM 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. - LM 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

1602941

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

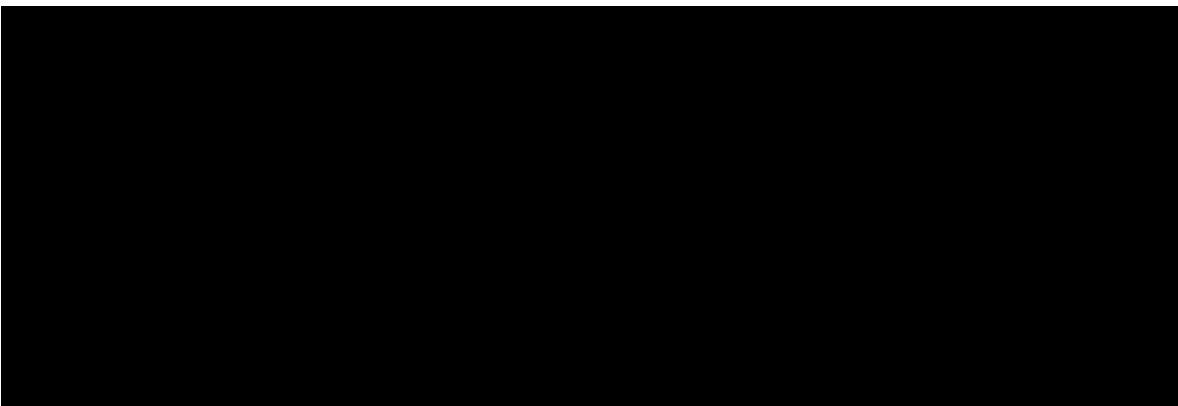
F609427

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: _____

Reviewed

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
1609300-01A	300	3.00	Y			
<div style="position: absolute; top: 50px; left: 50px; opacity: 0.3;"> <p>CSP 9/13/16</p> </div>						

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

Comments: _____

Reviewed

alw/ll

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~~ 16091595

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: 11032229
 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: _____

Reviewed

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

Page 251 of 257

Date: 9/8/2016

PREPARATION BENCH SHEET

2000-2

9/19/16 on

F609416

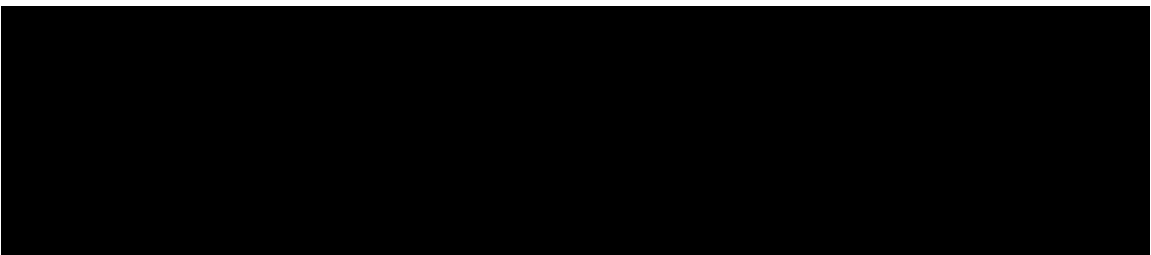
Eurofins Frontier Global Sciences, Inc.

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 1604810 ^{9/16/16} 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 b8
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) #: 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 $< 2.2 \times MDL$ for WI (refer to appropriate prep method PQL list) PASS FAIL
 (a) If not $< PQL$ or $< 2.2 \times MDL$ for WI, note which PB(s) are above control limit:
 (b) Is the mean PB $< PQL$ or $< 2.2 \times MDL$ 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 $< 2.2 \times MDL$ 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>11/15/16</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.



Frontier Global Sciences

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

17 October 2016

Denise King
AMEC Foster Wheeler
511 Congress Street
Portland, ME 04101

RE: Penobscot Sediments Hg and Methyl Hg 2016

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 "Amy Goodall". The signature is written in a cursive, flowing style.

Amy Goodall
Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BO-04_072516_SED_03	1608072-01	Soil/Sediment	25-Jul-16 11:30	02-Aug-16 14:00
BO-04_072516_SED_03_DUP	1608072-02	Soil/Sediment	25-Jul-16 11:30	02-Aug-16 14:00

Eurofins Frontier Global Sciences, Inc.

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

SAMPLE RECEIPT

Samples were received at Eurofins Frontier Global Sciences (EFGS) on 8/2/2016 2:00:00 PM . The samples were received intact, on-ice within a sealed cooler at 8.8 degrees Celsius.

SAMPLE PREPARATION AND ANALYSIS

Total solids analysis was performed in accordance with method SM2540B. Total solids are prepared at the same time as the preparation for the analyte(s) of interest in order to provide the most accurate dry mass correction which may be outside of the method recommended holding time of 7 days from sample collection.

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

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.

Eurofins Frontier Global Sciences, Inc.

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

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.

Sample Receipt Checklist

EFGS Work Order: 1608072

Client: USDC Pendobscot

Date & Time Received: 8/2/16 9:35

Date Labeled: 8/3/16 Labeled By: LSP

Project: _____

Received By: WLF

Label Verified By: LM

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

Coolant: None/Ambient Loose Ice Gel Ice Dry Ice Coolant Required: Y/N Temp Blank Used: Y/N for Cooler(s): 1

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

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

TID: <u>111943150</u>	CF: <u>70.4</u> °C	Date/time: <u>8/2/16 9:35</u>	By: <u>WLF</u>
Cooler 1: <u>8.4</u> °C	w/ CF: <u>8.8</u> °C	Cooler 4: °C	w/ CF: °C
Cooler 2: °C	w/ CF: °C	Cooler 5: °C	w/ CF: °C
Cooler 3: °C	w/ CF: °C	Cooler 6: °C	w/ CF: °C

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

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

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

1608072

Chain Of Custody/Analysis Request Form

USDC - Penobscot River

Lab: Eurofins

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
1590	7/25/2016	11:30	BO-04_072516_SED_03	FS	1	1 2 oz	Plastic	4 deg C	SED Total Hg (1631e)/Total MeHg (1630)	T
1591	7/25/2016	11:30	BO-04_072516_SED_03_DUP	FD	1	1 2 oz	Plastic	4 deg C	SED Total Hg (1631e)/Total MeHg (1630)	T
<i>A</i> 1592	7/25/2016	11:30	BO-04_072516_SED_03_MS	MS	1	1 2 oz	Plastic	4 deg C	SED Total Hg (1631e)/Total MeHg (1630)	T
<i>A</i> 1593	7/25/2016	11:30	BO-04_072516_SED_03_MD	MSD	1	1 2 oz	Plastic	4 deg C	SED Total Hg (1631e)/Total MeHg (1630)	T

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

Relinquished: Matthew [Signature] Date: 08 / 02 / 2016 Time: 14:00

Received: _____ Date: ____/____/____ Time: _____

A = QC sample

Monday, August 01, 2016

Page 1 of 1



AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Sediments Hg and Methyl Hg 2016 Project Number: Penobscot Sediments Hg and Methyl Hg 2016 Project Manager: Denise King	Reported: 17-Oct-16 13:00
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BO-04_072516_SED_03
1608072-01

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
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Sample Preparation: EFGS-019 Solids Analysis

% Solids	73.9	0.1	0.1	% by Weight	1	F609419	16-Sep-16		20-Sep-16	SM 2540B	O-04, O-09
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Sample Preparation: EFGS-045 MeCl2 Extraction for Methyl Hg

Methyl Mercury (as Mercury)	1.08	0.017	0.059	ng/g dry	1	F609314	16-Sep-16	6I16012	16-Sep-16	EPA 1630 Mod/FGS-070	
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Sample Preparation: EFGS-066 Cold Aqua Regia Digestion for Hg

Mercury	117	3.42	31.2	ng/g dry	500	F609416	16-Sep-16	6I20016	19-Sep-16	EPA 1631B	
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Eurofins Frontier Global Sciences, Inc.

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

BO-04_072516_SED_03_DUP
1608072-02

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
Sample Preparation: EFGS-019 Solids Analysis											
% Solids	71.2	0.1	0.1	% by Weight	1	F609419	16-Sep-16		20-Sep-16	SM 2540B	O-04, O-09
Sample Preparation: EFGS-045 MeCl2 Extraction for Methyl Hg											
Methyl Mercury (as Mercury)	0.626	0.022	0.074	ng/g dry	1	F609212	08-Sep-16	6109004	08-Sep-16	EPA 1630 Mod/FGS-070	
Sample Preparation: EFGS-066 Cold Aqua Regia Digestion for Hg											
Mercury	79.1	3.35	30.5	ng/g dry	500	F609416	16-Sep-16	6120016	19-Sep-16	EPA 1631B	

Eurofins Frontier Global Sciences, Inc.

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Amy Goodall, Project Manager

AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Sediments Hg and Methyl Hg 2016 Project Number: Penobscot Sediments Hg and Methyl Hg 2016 Project Manager: Denise King	Reported: 17-Oct-16 13:00
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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 6I06005 - F609212											
Cal Standard (6I06005-CAL1) Prepared & Analyzed: 03-Sep-16											
Methyl Mercury (as Mercury)	0.051	-		ng/L	0.050050		103				
Cal Standard (6I06005-CAL2) Prepared & Analyzed: 03-Sep-16											
Methyl Mercury (as Mercury)	0.198	-		ng/L	0.20020		98.9				
Cal Standard (6I06005-CAL3) Prepared & Analyzed: 03-Sep-16											
Methyl Mercury (as Mercury)	0.988	-		ng/L	1.0010		98.7				
Cal Standard (6I06005-CAL4) Prepared & Analyzed: 03-Sep-16											
Methyl Mercury (as Mercury)	1.939	-		ng/L	2.0020		96.9				
Cal Standard (6I06005-CAL5) Prepared & Analyzed: 03-Sep-16											
Methyl Mercury (as Mercury)	4.096	-		ng/L	4.0040		102				
Calibration Blank (6I06005-CCB1) Prepared & Analyzed: 03-Sep-16											
Methyl Mercury (as Mercury)	0.008	-		ng/L							
Calibration Blank (6I06005-CCB2) Prepared & Analyzed: 03-Sep-16											
Methyl Mercury (as Mercury)	0.013	-		ng/L							
Calibration Blank (6I06005-CCB3) Prepared & Analyzed: 03-Sep-16											
Methyl Mercury (as Mercury)	0.007	-		ng/L							
Calibration Check (6I06005-CCV1) Prepared & Analyzed: 03-Sep-16											
Methyl Mercury (as Mercury)	0.543	-		ng/L	0.50049		109	67-133			
Calibration Check (6I06005-CCV2) Prepared & Analyzed: 03-Sep-16											
Methyl Mercury (as Mercury)	0.522	-		ng/L	0.50049		104	67-133			

Eurofins Frontier Global Sciences, Inc.



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Amy Goodall, Project Manager

AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

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 6I06005 - F609212

Calibration Check (6I06005-CCV3)

Prepared & Analyzed: 03-Sep-16

Methyl Mercury (as Mercury)	0.539	-		ng/L	0.50049		108	67-133			
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Instrument Blank (6I06005-IBL1)

Prepared & Analyzed: 03-Sep-16

Methyl Mercury (as Mercury)	ND	0.017	0.058	ng/L							U
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Initial Cal Blank (6I06005-ICB1)

Prepared & Analyzed: 03-Sep-16

Methyl Mercury (as Mercury)	0.012	-		ng/L							
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Initial Cal Check (6I06005-ICV1)

Prepared & Analyzed: 03-Sep-16

Methyl Mercury (as Mercury)	0.562	-		ng/L	0.50049		112	67-133			
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Batch 6I09004 - F609212

Cal Standard (6I09004-CAL1)

Prepared & Analyzed: 08-Sep-16

Methyl Mercury (as Mercury)	0.048	-		ng/L	0.050050		95.0				
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Cal Standard (6I09004-CAL2)

Prepared & Analyzed: 08-Sep-16

Methyl Mercury (as Mercury)	0.209	-		ng/L	0.20020		105				
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Cal Standard (6I09004-CAL3)

Prepared & Analyzed: 08-Sep-16

Methyl Mercury (as Mercury)	0.934	-		ng/L	1.0010		93.3				
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Cal Standard (6I09004-CAL4)

Prepared & Analyzed: 08-Sep-16

Methyl Mercury (as Mercury)	2.122	-		ng/L	2.0020		106				
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Cal Standard (6I09004-CAL5)

Prepared & Analyzed: 08-Sep-16

Methyl Mercury (as Mercury)	4.029	-		ng/L	4.0040		101				
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Eurofins Frontier Global Sciences, Inc.



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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I09004 - F609212											
Calibration Blank (6I09004-CCB1)											
Methyl Mercury (as Mercury)	0.025	-		ng/L							Prepared & Analyzed: 08-Sep-16
Calibration Blank (6I09004-CCB2)											
Methyl Mercury (as Mercury)	0.015	-		ng/L							Prepared & Analyzed: 08-Sep-16
Calibration Blank (6I09004-CCB3)											
Methyl Mercury (as Mercury)	0.008	-		ng/L							Prepared & Analyzed: 08-Sep-16
Calibration Blank (6I09004-CCB4)											
Methyl Mercury (as Mercury)	0.016	-		ng/L							Prepared & Analyzed: 08-Sep-16
Calibration Blank (6I09004-CCB5)											
Methyl Mercury (as Mercury)	0.008	-		ng/L							Prepared & Analyzed: 08-Sep-16
Calibration Check (6I09004-CCV1)											
Methyl Mercury (as Mercury)	0.634	-		ng/L	0.50049		127	67-133			Prepared & Analyzed: 08-Sep-16
Calibration Check (6I09004-CCV2)											
Methyl Mercury (as Mercury)	0.513	-		ng/L	0.50049		103	67-133			Prepared & Analyzed: 08-Sep-16
Calibration Check (6I09004-CCV3)											
Methyl Mercury (as Mercury)	0.519	-		ng/L	0.50049		104	67-133			Prepared & Analyzed: 08-Sep-16
Calibration Check (6I09004-CCV5)											
Methyl Mercury (as Mercury)	0.600	-		ng/L	0.50049		120	67-133			Prepared & Analyzed: 08-Sep-16
Calibration Check (6I09004-CCV6)											
Methyl Mercury (as Mercury)	0.633	-		ng/L	0.50049		126	67-133			Prepared & Analyzed: 08-Sep-16

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Amy Goodall, Project Manager



AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

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 6I09004 - F609212

Instrument Blank (6I09004-IBL1)				Prepared & Analyzed: 08-Sep-16							
Methyl Mercury (as Mercury)	ND	0.017	0.058	ng/L							U
Initial Cal Blank (6I09004-ICB1)				Prepared & Analyzed: 08-Sep-16							
Methyl Mercury (as Mercury)	0.019	-		ng/L							
Initial Cal Check (6I09004-ICV1)				Prepared & Analyzed: 08-Sep-16							
Methyl Mercury (as Mercury)	0.571	-		ng/L	0.50049		114	67-133			

Batch 6I16012 - F609314

Cal Standard (6I16012-CAL1)				Prepared & Analyzed: 16-Sep-16							
Methyl Mercury (as Mercury)	0.045	-		ng/L	0.050050		90.1				
Cal Standard (6I16012-CAL2)				Prepared & Analyzed: 16-Sep-16							
Methyl Mercury (as Mercury)	0.203	-		ng/L	0.20020		101				
Cal Standard (6I16012-CAL3)				Prepared & Analyzed: 16-Sep-16							
Methyl Mercury (as Mercury)	1.000	-		ng/L	1.0010		99.9				
Cal Standard (6I16012-CAL4)				Prepared & Analyzed: 16-Sep-16							
Methyl Mercury (as Mercury)	2.271	-		ng/L	2.0020		113				
Cal Standard (6I16012-CAL5)				Prepared & Analyzed: 16-Sep-16							
Methyl Mercury (as Mercury)	3.796	-		ng/L	4.0040		94.8				
Calibration Blank (6I16012-CCB1)				Prepared & Analyzed: 16-Sep-16							
Methyl Mercury (as Mercury)	0.005	-		ng/L							

Eurofins Frontier Global Sciences, Inc.

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Amy Goodall, Project Manager

AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I16012 - F609314											
Calibration Blank (6I16012-CCB2) Prepared & Analyzed: 16-Sep-16											
Methyl Mercury (as Mercury)	0.008	-		ng/L							
Calibration Blank (6I16012-CCB3) Prepared & Analyzed: 16-Sep-16											
Methyl Mercury (as Mercury)	0.004	-		ng/L							
Calibration Blank (6I16012-CCB4) Prepared & Analyzed: 16-Sep-16											
Methyl Mercury (as Mercury)	0.007	-		ng/L							
Calibration Blank (6I16012-CCB5) Prepared & Analyzed: 16-Sep-16											
Methyl Mercury (as Mercury)	0.035	-		ng/L							
Calibration Check (6I16012-CCV1) Prepared & Analyzed: 16-Sep-16											
Methyl Mercury (as Mercury)	0.528	-		ng/L	0.50049		105	67-133			
Calibration Check (6I16012-CCV2) Prepared & Analyzed: 16-Sep-16											
Methyl Mercury (as Mercury)	0.514	-		ng/L	0.50049		103	67-133			
Calibration Check (6I16012-CCV3) Prepared & Analyzed: 16-Sep-16											
Methyl Mercury (as Mercury)	0.483	-		ng/L	0.50049		96.6	67-133			
Calibration Check (6I16012-CCV4) Prepared & Analyzed: 16-Sep-16											
Methyl Mercury (as Mercury)	0.512	-		ng/L	0.50049		102	67-133			
Calibration Check (6I16012-CCV5) Prepared & Analyzed: 16-Sep-16											
Methyl Mercury (as Mercury)	0.591	-		ng/L	0.50049		118	67-133			
Instrument Blank (6I16012-IBL1) Prepared & Analyzed: 16-Sep-16											
Methyl Mercury (as Mercury)	ND	0.017	0.058	ng/L							U

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Amy Goodall, Project Manager

AMEC Foster Wheeler
511 Congress Street
Portland ME, 04101

Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

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 6I16012 - F609314

Initial Cal Blank (6I16012-ICB1)

Prepared & Analyzed: 16-Sep-16

Methyl Mercury (as Mercury) 0.010 - ng/L

Initial Cal Check (6I16012-ICV1)

Prepared & Analyzed: 16-Sep-16

Methyl Mercury (as Mercury) 0.525 - ng/L 0.50049 105 67-133

Batch 6I20016 - F609416

Cal Standard (6I20016-CAL1)

Prepared & Analyzed: 19-Sep-16

Mercury 0.46 - ng/L 0.50100 91.6

Cal Standard (6I20016-CAL2)

Prepared & Analyzed: 19-Sep-16

Mercury 0.96 - ng/L 1.0020 95.3

Cal Standard (6I20016-CAL3)

Prepared & Analyzed: 19-Sep-16

Mercury 5.37 - ng/L 5.0100 107

Cal Standard (6I20016-CAL4)

Prepared & Analyzed: 19-Sep-16

Mercury 20.72 - ng/L 20.040 103

Cal Standard (6I20016-CAL5)

Prepared & Analyzed: 19-Sep-16

Mercury 40.66 - ng/L 40.080 101

Calibration Blank (6I20016-CCB1)

Prepared & Analyzed: 19-Sep-16

Mercury 0.11 - ng/L

Calibration Blank (6I20016-CCB2)

Prepared & Analyzed: 19-Sep-16

Mercury 0.06 - ng/L

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I20016 - F609416											
Calibration Blank (6I20016-CCB3) Prepared & Analyzed: 19-Sep-16											
Mercury	0.22	-		ng/L							
Calibration Blank (6I20016-CCB4) Prepared & Analyzed: 19-Sep-16											
Mercury	0.13	-		ng/L							
Calibration Blank (6I20016-CCB5) Prepared & Analyzed: 19-Sep-16											
Mercury	0.10	-		ng/L							
Calibration Blank (6I20016-CCB6) Prepared & Analyzed: 19-Sep-16											
Mercury	0.15	-		ng/L							
Calibration Blank (6I20016-CCB7) Prepared & Analyzed: 19-Sep-16											
Mercury	0.20	-		ng/L							
Calibration Blank (6I20016-CCB8) Prepared & Analyzed: 19-Sep-16											
Mercury	0.14	-		ng/L							
Calibration Blank (6I20016-CCB9) Prepared & Analyzed: 19-Sep-16											
Mercury	0.16	-		ng/L							
Calibration Blank (6I20016-CCBA) Prepared & Analyzed: 19-Sep-16											
Mercury	0.09	-		ng/L							
Calibration Blank (6I20016-CCBB) Prepared & Analyzed: 19-Sep-16											
Mercury	0.18	-		ng/L							
Calibration Check (6I20016-CCV1) Prepared & Analyzed: 19-Sep-16											
Mercury	5.49	-		ng/L	5.0000		110	77-123			

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Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

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 6I20016 - F609416

Calibration Check (6I20016-CCV2)											
Prepared & Analyzed: 19-Sep-16											
Mercury	5.29	-		ng/L	5.0000		106	77-123			
Calibration Check (6I20016-CCV3)											
Prepared & Analyzed: 19-Sep-16											
Mercury	5.91	-		ng/L	5.0000		118	77-123			
Calibration Check (6I20016-CCV4)											
Prepared & Analyzed: 19-Sep-16											
Mercury	5.67	-		ng/L	5.0000		113	77-123			
Calibration Check (6I20016-CCV5)											
Prepared & Analyzed: 19-Sep-16											
Mercury	5.59	-		ng/L	5.0000		112	77-123			
Calibration Check (6I20016-CCV6)											
Prepared & Analyzed: 19-Sep-16											
Mercury	5.52	-		ng/L	5.0000		110	77-123			
Calibration Check (6I20016-CCV7)											
Prepared & Analyzed: 19-Sep-16											
Mercury	5.79	-		ng/L	5.0000		116	77-123			
Calibration Check (6I20016-CCV8)											
Prepared & Analyzed: 19-Sep-16											
Mercury	5.28	-		ng/L	5.0000		106	77-123			
Calibration Check (6I20016-CCV9)											
Prepared & Analyzed: 19-Sep-16											
Mercury	5.85	-		ng/L	5.0000		117	77-123			
Calibration Check (6I20016-CCVA)											
Prepared & Analyzed: 19-Sep-16											
Mercury	5.59	-		ng/L	5.0000		112	77-123			
Calibration Check (6I20016-CCVB)											
Prepared & Analyzed: 19-Sep-16											
Mercury	5.09	-		ng/L	5.0000		102	77-123			

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

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 6I20016 - F609416

Instrument Blank (6I20016-IBL1)											
											Prepared & Analyzed: 19-Sep-16
Mercury	ND	0.005	0.05	ng/L							U
Instrument Blank (6I20016-IBL2)											
											Prepared & Analyzed: 19-Sep-16
Mercury	ND	0.005	0.05	ng/L							U
Instrument Blank (6I20016-IBL3)											
											Prepared & Analyzed: 19-Sep-16
Mercury	ND	0.005	0.05	ng/L							U
Initial Cal Check (6I20016-ICV1)											
											Prepared & Analyzed: 19-Sep-16
Mercury	5.70	-		ng/L	5.0000		114	77-123			

Batch 6I21008 - F609314

Cal Standard (6I21008-CAL1)											
											Prepared & Analyzed: 19-Sep-16
Methyl Mercury (as Mercury)	0.049	-		ng/L	0.050050		97.4				
Cal Standard (6I21008-CAL2)											
											Prepared & Analyzed: 19-Sep-16
Methyl Mercury (as Mercury)	0.194	-		ng/L	0.20020		97.1				
Cal Standard (6I21008-CAL3)											
											Prepared & Analyzed: 19-Sep-16
Methyl Mercury (as Mercury)	1.057	-		ng/L	1.0010		106				
Cal Standard (6I21008-CAL4)											
											Prepared & Analyzed: 19-Sep-16
Methyl Mercury (as Mercury)	1.965	-		ng/L	2.0020		98.1				
Cal Standard (6I21008-CAL5)											
											Prepared & Analyzed: 19-Sep-16
Methyl Mercury (as Mercury)	4.052	-		ng/L	4.0040		101				

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

Quality Control Data

Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6I21008 - F609314											
Calibration Blank (6I21008-CCB1) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	-0.0002	-		ng/L							U
Calibration Blank (6I21008-CCB2) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	0.004	-		ng/L							
Calibration Blank (6I21008-CCB3) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	0.003	-		ng/L							
Calibration Blank (6I21008-CCB4) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	0.006	-		ng/L							
Calibration Blank (6I21008-CCB5) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	0.0006	-		ng/L							
Calibration Check (6I21008-CCV2) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	0.469	-		ng/L	0.50049		93.7	67-133			
Calibration Check (6I21008-CCV3) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	0.479	-		ng/L	0.50049		95.8	67-133			
Calibration Check (6I21008-CCV5) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	0.448	-		ng/L	0.50049		89.4	67-133			
Calibration Check (6I21008-CCV6) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	0.510	-		ng/L	0.50049		102	67-133			
Calibration Check (6I21008-CCV7) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	0.385	-		ng/L	0.50049		76.8	67-133			

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Amy Goodall, Project Manager



AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Sediments Hg and Methyl Hg 2016 Project Number: Penobscot Sediments Hg and Methyl Hg 2016 Project Manager: Denise King	Reported: 17-Oct-16 13:00
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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 6I21008 - F609314											
Instrument Blank (6I21008-IBL1) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	ND	0.017	0.058	ng/L							J
Initial Cal Blank (6I21008-ICB1) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	0.009	-		ng/L							
Initial Cal Check (6I21008-ICV1) Prepared & Analyzed: 19-Sep-16											
Methyl Mercury (as Mercury)	0.522	-		ng/L	0.50049		104	67-133			
Batch F609212 - EFGS-045 MeCl2 Extraction for Methyl Hg											
Blank (F609212-BLK4) Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	0.021	0.015	0.050	ng/g wet							J
Blank (F609212-BLK5) Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	0.023	0.015	0.050	ng/g wet							J
Blank (F609212-BLK6) Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	0.017	0.015	0.050	ng/g wet							J
LCS (F609212-BS2) Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	4.805	0.074	0.252	ng/g wet	5.0050		96.0	70-130			
LCS Dup (F609212-BSD2) Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	5.081	0.074	0.252	ng/g wet	5.0050		102	70-130	5.60	35	
Duplicate (F609212-DUP2) Source: 1607903-43RE1 Prepared & Analyzed: 08-Sep-16											
Methyl Mercury (as Mercury)	33.02	0.286	0.974	ng/g dry		31.69			4.13	35	

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Amy Goodall, Project Manager

AMEC Foster Wheeler 511 Congress Street Portland ME, 04101	Project: Penobscot Sediments Hg and Methyl Hg 2016 Project Number: Penobscot Sediments Hg and Methyl Hg 2016 Project Manager: Denise King	Reported: 17-Oct-16 13:00
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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 F609212 - EFGS-045 MeCl2 Extraction for Methyl Hg

Matrix Spike (F609212-MS4)		Source: 1608071-06RE1		Prepared & Analyzed: 08-Sep-16							
Methyl Mercury (as Mercury)	9.088	0.092	0.312	ng/g dry	6.2105	1.496	122	65-130			
Matrix Spike (F609212-MS5)		Source: 1607903-43RE1		Prepared & Analyzed: 08-Sep-16							
Methyl Mercury (as Mercury)	73.21	1.08	3.68	ng/g dry	18.288	31.69	227	65-130			QM-02
Matrix Spike Dup (F609212-MSD4)		Source: 1608071-06RE1		Prepared & Analyzed: 08-Sep-16							
Methyl Mercury (as Mercury)	9.106	0.087	0.297	ng/g dry	5.9005	1.496	129	65-130	5.36	35	
Matrix Spike Dup (F609212-MSD5)		Source: 1607903-43RE1		Prepared & Analyzed: 08-Sep-16							
Methyl Mercury (as Mercury)	54.88	1.04	3.54	ng/g dry	17.590	31.69	132	65-130	53.1	35	QM-02

Batch F609314 - EFGS-045 MeCl2 Extraction for Methyl Hg

Blank (F609314-BLK1)				Prepared & Analyzed: 16-Sep-16							
Methyl Mercury (as Mercury)	0.018	0.015	0.050	ng/g wet							J
Blank (F609314-BLK2)				Prepared & Analyzed: 16-Sep-16							
Methyl Mercury (as Mercury)	0.016	0.015	0.050	ng/g wet							J
Blank (F609314-BLK3)				Prepared & Analyzed: 16-Sep-16							
Methyl Mercury (as Mercury)	0.020	0.015	0.050	ng/g wet							J
Blank (F609314-BLK4)				Prepared: 16-Sep-16 Analyzed: 19-Sep-16							
Methyl Mercury (as Mercury)	0.021	0.015	0.050	ng/g wet							J
Blank (F609314-BLK5)				Prepared: 16-Sep-16 Analyzed: 19-Sep-16							
Methyl Mercury (as Mercury)	0.020	0.015	0.050	ng/g wet							J

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

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 F609314 - EFGS-045 MeCl2 Extraction for Methyl Hg

Blank (F609314-BLK6)					Prepared: 16-Sep-16 Analyzed: 19-Sep-16						
Methyl Mercury (as Mercury)	0.018	0.015	0.050	ng/g wet							J
LCS (F609314-BS1)					Prepared & Analyzed: 16-Sep-16						
Methyl Mercury (as Mercury)	4.839	0.148	0.503	ng/g wet	5.0050		96.7	70-130			
LCS Dup (F609314-BSD1)					Prepared & Analyzed: 16-Sep-16						
Methyl Mercury (as Mercury)	4.945	0.148	0.503	ng/g wet	5.0050		98.8	70-130	2.17	35	
Matrix Spike (F609314-MS3)					Source: 1608072-01 Prepared: 16-Sep-16 Analyzed: 19-Sep-16						
Methyl Mercury (as Mercury)	6.569	0.192	0.655	ng/g dry	6.5122	1.085	84.2	65-130			
Matrix Spike (F609314-MS5)					Source: 1608072-01 Prepared: 16-Sep-16 Analyzed: 19-Sep-16						
Methyl Mercury (as Mercury)	6.059	0.192	0.655	ng/g dry	6.5122	1.085	76.4	65-130			
Matrix Spike Dup (F609314-MSD3)					Source: 1608072-01 Prepared: 16-Sep-16 Analyzed: 19-Sep-16						
Methyl Mercury (as Mercury)	6.701	0.182	0.622	ng/g dry	6.1794	1.085	90.9	65-130	7.61	35	
Matrix Spike Dup (F609314-MSD5)					Source: 1608072-01 Prepared: 16-Sep-16 Analyzed: 19-Sep-16						
Methyl Mercury (as Mercury)	5.089	0.182	0.622	ng/g dry	6.1794	1.085	64.8	65-130	16.4	35	

Batch F609416 - EFGS-066 Cold Aqua Regia Digestion for Hg

Blank (F609416-BLK1)					Prepared: 16-Sep-16 Analyzed: 19-Sep-16						
Mercury	0.15	0.11	1.00	ng/g wet							J
Blank (F609416-BLK2)					Prepared: 16-Sep-16 Analyzed: 19-Sep-16						
Mercury	0.22	0.11	1.00	ng/g wet							J

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

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 F609416 - EFGS-066 Cold Aqua Regia Digestion for Hg

Blank (F609416-BLK3)				Prepared: 16-Sep-16 Analyzed: 19-Sep-16							
Mercury	0.13	0.11	1.00	ng/g wet							J
LCS (F609416-BS1)				Prepared: 16-Sep-16 Analyzed: 19-Sep-16							
Mercury	8.41	0.11	1.00	ng/g wet	8.0160		105	75-125			
LCS Dup (F609416-BSD1)				Prepared: 16-Sep-16 Analyzed: 19-Sep-16							
Mercury	8.35	0.11	1.00	ng/g wet	8.0160		104	75-125	0.722	24	
Duplicate (F609416-DUP1)				Source: 1608071-06RE1 Prepared: 16-Sep-16 Analyzed: 19-Sep-16							
Mercury	47.11	0.69	6.27	ng/g dry		43.01			9.10	24	
Matrix Spike (F609416-MS1)				Source: 1608071-06RE1 Prepared: 16-Sep-16 Analyzed: 19-Sep-16							
Mercury	567.6	3.37	30.7	ng/g dry	490.82	43.01	107	71-125			
Matrix Spike (F609416-MS2)				Source: 1608072-01 Prepared: 16-Sep-16 Analyzed: 19-Sep-16							
Mercury	577.8	3.36	30.6	ng/g dry	489.40	117.0	94.2	71-125			
Matrix Spike Dup (F609416-MSD1)				Source: 1608071-06RE1 Prepared: 16-Sep-16 Analyzed: 19-Sep-16							
Mercury	542.8	3.24	29.5	ng/g dry	472.41	43.01	106	71-125	1.03	24	
Matrix Spike Dup (F609416-MSD2)				Source: 1608072-01 Prepared: 16-Sep-16 Analyzed: 19-Sep-16							
Mercury	598.9	3.30	30.0	ng/g dry	480.70	117.0	100	71-125	6.26	24	

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Project: Penobscot Sediments Hg and Methyl Hg 2016
Project Number: Penobscot Sediments Hg and Methyl Hg 2016
Project Manager: Denise King

Reported:
17-Oct-16 13:00

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 F609419 - EFGS-019 Solids Analysis

Duplicate (F609419-DUP1)		Source: 1608072-01			Prepared: 16-Sep-16 Analyzed: 20-Sep-16					
% Solids	73.2	0.1	0.1	% by Weight		73.9		0.952	10	
Duplicate (F609419-DUP2)		Source: 1608361-15			Prepared: 16-Sep-16 Analyzed: 20-Sep-16					
% Solids	54.7	0.1	0.1	% by Weight		55.2		0.910	10	

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 511 Congress Street
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Project: Penobscot Sediments Hg and Methyl Hg 2016
 Project Number: Penobscot Sediments Hg and Methyl Hg 2016
 Project Manager: Denise King

Reported:
 17-Oct-16 13:00

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.
- QM-02 The MS and/or MSD recoveries outside acceptance limits, due to spike concentration less than 1 times the sample concentration. The batch was accepted based on LCS and LCSD recoveries within control limits and, when analysis permits, acceptable AS/ASD.
- O-09 Total Solids are prepared at the same time as the preparation for the analyte(s) of interest in order to provide the most accurate dry mass correction.
- O-04 This sample was analyzed outside of the recommended holding time.
- J The result is an estimated concentration.
- E-01 Sample was preceded by a sample exceeding the calibration curve and was reanalyzed for confirmation.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





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Total Solids Dataset Cover Page

Dataset ID: TS160916-1
Batch ID: F609419
Work Order(s): 1608071, 1608072, 1608361

Analyst: DH
Prep. Date: 9/16/2016

Analytical Issues/Explanations:

QUALITY ASSURANCE

PEER - REVIEWED

INITIALS: DMW 9-21-16

Preparation Date: Sep 16, 2016

Batch #: 1

Analyst: DH

Batch ID: F609419

Work Order(s): 1608071, 1608072, 1608361

Pan ID	Sample ID	Pan Wt (g)	Pan + Sample Wet (g)	Wet Sample (g)	Pan + Sample Dry (g)	Dry Sample (g)	% TS	Notes
1	1608071-10	1.0380	6.2970	5.2590	3.4920	2.4540	46.7%	
2	1608071-11	1.0240	6.2940	5.2700	5.0390	4.0150	76.2%	
3	1608072-01	1.0040	6.5350	5.5310	5.0890	4.0850	73.9%	
4	1608072-01MD	1.0140	6.2160	5.2020	4.8210	3.8070	73.2%	0.9%
5	1608072-02	0.9920	6.3920	5.4000	4.8380	3.8460	71.2%	
6	1608361-05	1.0010	6.5590	5.5580	2.3670	1.3660	24.6%	
7	1608361-06	1.0270	6.6580	5.6310	4.6220	3.5950	63.8%	
8	1608361-07	1.0230	6.5360	5.5130	5.3300	4.3070	78.1%	
9	1608361-08	1.0300	6.6190	5.5890	2.4010	1.3710	24.5%	
10	1608361-09	1.0180	6.3130	5.2950	2.5970	1.5790	29.8%	
11	1608361-10	1.0060	6.3730	5.3670	2.5270	1.5210	28.3%	
12	1608361-11	0.9980	6.2460	5.2480	2.8790	1.8810	35.8%	
13	1608361-12	0.9890	6.7610	5.7720	3.1180	2.1290	36.9%	
14	1608361-13	1.0240	6.6540	5.6300	2.9950	1.9710	35.0%	
15	1608361-14	0.9840	6.6470	5.6630	3.5540	2.5700	45.4%	
16	1608361-15	1.0200	6.7340	5.7140	4.1730	3.1530	55.2%	
17	1608361-15MD	1.0250	6.4490	5.4240	3.9910	2.9660	54.7%	0.9%
18	1608361-16	1.0170	6.5940	5.5770	2.5440	1.5270	27.4%	
19	1608361-17	1.0120	6.4490	5.4370	2.3010	1.2890	23.7%	
20	1608361-18	1.0110	6.6420	5.6310	2.0970	1.0860	19.3%	
21	1608361-19	0.9930	6.5280	5.5350	2.2150	1.2220	22.1%	
22	1608361-20	1.0160	6.5580	5.5420	3.2640	2.2480	40.6%	

Remote Lab Total Solids Logbook

Lab Technician(s): Duyen Batch: F609419 Date: 9/16/16 Page 1 of 1

Thermometer # 204051425 Oven #: 12 Actual temperature: 104.6 (Range 103-105°C)

Balance #1: 6210 Start time: 14:30 End time²: 7:35 Time re-weighed³: 8:05 9/19/16
19 9/16/16

Client(s)/WO#: 1608071, 1608072, 1608361

Sample ID	Pan #	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Notes
1608071-10	1	1.038	6.297	3.492	
1608071-11	2	1.024	6.294	5.039	
1608072-01	3	1.004	6.535	5.089	
1608072-01MD	4	1.014	6.216	4.821	
1608072-02	5	0.992	6.392	4.838	
1608361-05	6	1.001	6.559	2.367	
1608361-06	7	1.027	6.658	4.622	
1608361-07	8	1.023	6.536	5.330	
1608361-08	9	1.030	6.619	2.401	
1608361-09	10	1.018	6.313	2.597	
1608361-10	11	1.006	6.373	2.527	
1608361-11	12	0.998	6.246	2.879	
1608361-12	13	0.989	6.761	2.118 3/9/19/16	3.118g pan top
1608361-13	14	1.024	6.654	2.995	
1608361-14	15	0.984	6.647	3.554	
1608361-15	16	1.020	6.734	4.173	
1608361-15MD ^{all 16/16}	17	1.025	6.449	3.991	1608361-15MD
1608361-16-17	18	1.017	6.594	2.544	
1608361-17-18	19	1.012	6.449	2.301	
1608361-18-19	20	1.011	6.642	2.097	
1608361-19-20	21	0.993	6.528	2.215	
1608361-20-21	22	1.016	6.558	3.264	
<u>9/16/16</u> ^{9/16/16}				<u>9/16/16</u>	

Comments:

EFG5 / Remote Lab Total Solids / LOG-HG-032.01 / Effective: Feb. 21, 2013 / QA2015-134

¹The same balance must be used to weight samples before and after ovening.

²Samples must be ovened over 12 hours.

³Samples must be re-weighed within 30 minutes of oven cool down.

*Reviewed
9/19/16*

PREPARATION BENCH SHEET

F609419

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-019 Solids Analysis

Prepared: 9/16/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (g)	Spike1 ID	μ l Spike1	Spike2 ID	μ l Spike2	Extraction Comments
F609419-DUP1	Duplicate [1608072-01]	5	5					
F609419-DUP2	Duplicate [1608361-15]	5	5					

Standard ID(s):

Description:

Expiration:

PREPARATION BENCH SHEET

F609419

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-019 Solids Analysis

Prepared: 9/16/2016

Lab Number	Sample ID	Initial (g)	Final (g)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608071-10	MMPOLY_072916_SED_03	5	5	-	-	-		
1608071-11	L9-45_072816_SED_03	5	5	-	-	-		
1608072-01	BO-04_072516_SED_03	5	5	QC	-	-	MS/MSD	
1608072-02	BO-04_072516_SED_03_DUP	5	5	-	-	-		
1608361-05	OCE-11	5	5	-	-	-		
1608361-06	OCE-14	5	5	-	-	-		
1608361-07	OCE-15	5	5	-	-	-		
1608361-08	OCE-11-1	5	5	-	-	-		
1608361-09	OCE-11-2	5	5	-	-	-		
1608361-10	OCE-11-3	5	5	-	-	-		
1608361-11	OCE-11-4	5	5	-	-	-		
1608361-12	OCE-11-5	5	5	-	-	-		
1608361-13	OCE-11-6	5	5	-	-	-		
1608361-14	OCE-11-7	5	5	-	-	-		
1608361-15	OCE-11-8	5	5	-	-	-		
1608361-16	OCE-13	5	5	-	-	-		
1608361-17	OCE-13-1	5	5	-	-	-		
1608361-18	OCE-13-2	5	5	-	-	-		
1608361-19	OCE-13-3	5	5	-	-	-		

Page 29 of 277

Issue Date: 9/8/2016

PREPARATION BENCH SHEET

F609419

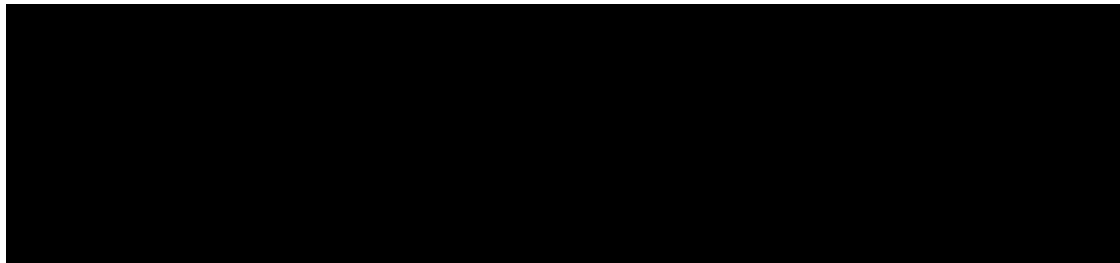
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-019 Solids Analysis

Prepared: 9/16/2016

1608361-20	OCE-13-4	5	5	-	-	-		
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Analyst: DH Date: 9/20/16 Reviewer: DMW Date: 9-21-16

WO #: 1608071, 1608072, 1608361 Batch #: F609419 Dataset ID: TS160916-1

Reviewer Initials: DMW

General Comments/Re-run requirements:

[Empty box for general comments]

Select	SOP	Method	Matrix
<input type="checkbox"/>	EFGS-019	TS	S/T
<input checked="" type="checkbox"/>	EFGS-019	Density	Liquids

Initials	SOP Date	
<u>DH</u>	<u>5-19-2016</u>	<input type="checkbox"/>
<u>AMB</u>	<u>6/02/16</u>	<input type="checkbox"/>

Reviewer Initials: DMW

1. Total Solids

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

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

2. Density

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

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



Frontier Global Sciences

MMHg27001-160908-1

Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: September 08, 2016

Analyst: RN

Instrument #: Hg2700-1

Units ng/L

LIMS Sequence #: 6I09004

Calibration Statistics:

LabNumber	n	True Val	Area	Uncorrected Response Factor	Corrected Peak Height	Corrected Response Factor	% Recovery
SEQ-CAL1	1	0.05 ng/L	26.65 units	532.92	25.99 units	519.88	95.1 %Rec
SEQ-CAL2	1	0.20 ng/L	115.11 units	575.55	114.46 units	572.29	104.7 %Rec
SEQ-CAL3	1	1.00 ng/L	511.61 units	511.61	510.96 units	510.96	93.4 %Rec
SEQ-CAL4	1	2.00 ng/L	1161.30 units	580.65	1160.65 units	580.33	106.1 %Rec
SEQ-CAL5	1	4.00 ng/L	2203.87 units	550.97	2203.22 units	550.81	100.7 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF **Corr. St Dev RF** **Corr. RSD CF** **Uncorr. Mean RF**
 546.85 +/- 30.82 5.6% RSD 550.34

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.65 units		0.00 ng/L	#VALUE!

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.041 ng/L	±0.005
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 Type	LabNumber	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	RN	CAL	SEQ-IBL1	1	9/8/16 10:11	15587-1.RAW	10:11:25	0.65			0.0	0.000	0.000	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL1	1	9/8/16 10:21	15588-1.RAW	10:21:55	26.65			26.0	0.048	0.048	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL2	1	9/8/16 10:32	15589-1.RAW	10:32:26	115.11			114.5	0.209	0.209	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL3	1	9/8/16 10:42	15590-1.RAW	10:42:57	511.61			511.0	0.934	0.934	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL4	1	9/8/16 10:53	15591-1.RAW	10:53:28	1161.30			1160.7	2.122	2.122	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL5	1	9/8/16 11:03	15592-1.RAW	11:03:58	2203.87			2203.2	4.029	4.029	ng/L	
Hg2700-1	RN	CAL	SEQ-ICV1	1	9/8/16 11:14	15593-1.RAW	11:14:29	313.17			312.5	0.571	0.571	ng/L	
Hg2700-1	RN	CAL	SEQ-ICB1	1	9/8/16 11:25	15594-1.RAW	11:25:00	11.17			10.5	0.019	0.019	ng/L	
Hg2700-1	RN	BLK	F609212-BLK4	1	9/8/16 11:35	15595-1.RAW	11:35:30	23.72	1		23.1	0.042	0.042	ng/L	
Hg2700-1	RN	BLK	F609212-BLK5	1	9/8/16 11:46	15596-1.RAW	11:46:01	25.38	1		24.7	0.045	0.045	ng/L	
Hg2700-1	RN	BLK	F609212-BLK6	1	9/8/16 11:56	15597-1.RAW	11:56:32	19.79	1		19.1	0.035	0.035	ng/L	
Hg2700-1	RN	SAM	F609212-BS2	5	9/8/16 12:07	15598-1.RAW	12:07:02	1056.06	1		1055.4	1.922	9.609	ng/L	
Hg2700-1	RN	SAM	F609212-BSD2	5	9/8/16 12:17	15599-1.RAW	12:17:33	1116.62	1		1116.0	2.033	10.163	ng/L	
Hg2700-1	RN	SAM	F609212-DUP2	5	9/8/16 12:28	15600-1.RAW	12:28:04	1871.30	1		1870.6	3.413	17.063	ng/L	
Hg2700-1	RN	SAM	F609212-MS3	5	9/8/16 12:38	15601-1.RAW	12:38:34	3739.85	1		3739.2	6.830	34.148	ng/L	
Hg2700-1	RN	SAM	F609212-MSD3	5	9/8/16 12:49	15602-1.RAW	12:49:05	2834.16	1		2833.5	5.173	25.867	ng/L	
Hg2700-1	RN	SAM	F609212-MS4	5	9/8/16 12:59	15603-1.RAW	12:59:36	1607.21	1		1606.6	2.930	14.648	ng/L	
Hg2700-1	RN	SAM	F609212-MSD4	5	9/8/16 13:10	15604-1.RAW	13:10:07	1694.71	1		1694.1	3.090	15.448	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV1	1	9/8/16 13:20	15605-1.RAW	13:20:38	347.42			346.8	0.634	0.634	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB1	1	9/8/16 13:31	15606-1.RAW	13:31:08	14.27			13.6	0.025	0.025	ng/L	
Hg2700-1	RN	SAM	1607903-32RE1	1	9/8/16 13:41	15607-1.RAW	13:41:39	1146.25	1		1145.6	2.054	2.054	ng/L	
Hg2700-1	RN	SAM	1607903-33RE1	1	9/8/16 13:52	15608-1.RAW	13:52:10	1984.16	1		1983.5	3.586	3.586	ng/L	
Hg2700-1	RN	SAM	1607903-37RE1	1	9/8/16 14:02	15609-1.RAW	14:02:41	134.58	1		133.9	0.204	0.204	ng/L	
Hg2700-1	RN	SAM	1608071-01RE1	1	9/8/16 14:13	15610-1.RAW	14:13:11	605.88	1		605.2	1.066	1.066	ng/L	
Hg2700-1	RN	SAM	1608071-02RE1	1	9/8/16 14:23	15611-1.RAW	14:23:42	2252.46	1		2251.8	4.077	4.077	ng/L	
Hg2700-1	RN	SAM	WS	1	9/8/16 14:34	15612-1.RAW	14:34:13	21.01	1		20.4	-0.004	-0.004	ng/L	
Hg2700-1	RN	SAM	1608071-05RE1	1	9/8/16 14:44	15613-1.RAW	14:44:43	1644.50	1		1643.8	2.965	2.965	ng/L	
Hg2700-1	RN	SAM	1608071-06RE1	1	9/8/16 14:55	15614-1.RAW	14:55:14	1321.74	1		1321.1	2.375	2.375	ng/L	
Hg2700-1	RN	SAM	1608071-07RE1	1	9/8/16 15:05	15615-1.RAW	15:05:45	895.68	1		895.0	1.596	1.596	ng/L	
Hg2700-1	RN	SAM	1608071-11RE1	1	9/8/16 15:16	15616-1.RAW	15:16:16	600.99	1		600.3	1.057	1.057	ng/L	
Hg2700-1	RN	SAM	1608072-02RE1	1	9/8/16 15:26	15617-1.RAW	15:26:46	490.76	1		490.1	0.855	0.855	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV2	1	9/8/16 15:37	15618-1.RAW	15:37:17	281.35			280.7	0.513	0.513	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB2	1	9/8/16 15:47	15619-1.RAW	15:47:48	8.96			8.3	0.015	0.015	ng/L	
Hg2700-1	RN	SAM	1607903-34RE1	10	9/8/16 15:58	15620-1.RAW	15:58:19	1210.12	1		1209.5	2.208	22.076	ng/L	
Hg2700-1	RN	SAM	1607903-35RE1	10	9/8/16 16:08	15621-1.RAW	16:08:49	596.48	1		595.8	1.085	10.855	ng/L	
Hg2700-1	RN	SAM	1607903-36RE1	10	9/8/16 16:19	15622-1.RAW	16:19:20	1343.67	1		1343.0	2.452	24.518	ng/L	
Hg2700-1	RN	SAM	1607903-38RE1	10	9/8/16 16:29	15623-1.RAW	16:29:51	123.93	1		123.3	0.221	2.214	ng/L	
Hg2700-1	RN	SAM	1607903-39RE1	10	9/8/16 16:40	15624-1.RAW	16:40:22	518.29	1		517.6	0.942	9.425	ng/L	
Hg2700-1	RN	SAM	1607903-43RE1	10	9/8/16 16:50	15625-1.RAW	16:50:52	1024.90	1		1024.3	1.869	18.689	ng/L	
Hg2700-1	RN	SAM	1607903-44RE1	10	9/8/16 17:01	15626-1.RAW	17:01:23	1181.57	1		1180.9	2.155	21.554	ng/L	
Hg2700-1	RN	SAM	1608071-03RE1	10	9/8/16 17:11	15627-1.RAW	17:11:54	281.29	1		280.6	0.509	5.091	ng/L	
Hg2700-1	RN	SAM	1608071-04RE1	10	9/8/16 17:22	15628-1.RAW	17:22:25	550.39	1		549.7	1.001	10.012	ng/L	
Hg2700-1	RN	SAM	1608071-10RE1	10	9/8/16 17:32	15629-1.RAW	17:32:54	466.89	1		466.2	0.849	8.485	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV3	1	9/8/16 17:43	15630-1.RAW	17:43:25	284.65			284.0	0.519	0.519	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB3	1	9/8/16 17:53	15631-1.RAW	17:53:56	5.17			4.5	0.008	0.008	ng/L	
Hg2700-1	RN	SAM	1608071-02RE2	10	9/8/16 18:04	15632-1.RAW	18:04:26	476.97	1		476.3	0.867	8.669	ng/L	

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	RN	SAM	F609212-MS5 -	20	9/8/16 18:14	15633-1.RAW	18:14:57	1097.40	1		1096.7	2.004	40.071	ng/L	
Hg2700-1	RN	SAM	F609212-MSD5 -	20	9/8/16 18:25	15634-1.RAW	18:25:28	855.67	1		855.0	1.561	31.230	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV4 -	1	9/8/16 18:35	15635-1.RAW	18:35:58	389.64			389.0	0.711	0.711	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB4 -	1	9/8/16 18:46	15636-1.RAW	18:46:29	9.60			8.9	0.016	0.016	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV5 -	1	9/8/16 18:57	15637-1.RAW	18:57:00	328.98			328.3	0.600	0.600	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV6 -	1	9/8/16 19:07	15638-1.RAW	19:07:30	346.59			345.9	0.633	0.633	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB5 -	1	9/8/16 19:18	15639-1.RAW	19:18:01	5.26			4.6	0.008	0.008	ng/L	

MethylMercury
EPA1630

Operat RN Blank# 0.652 Calib Eqn: Conc = (Area-0.652) / 546 Run Date: ##### Blank SD: 0
 Workst MHg270 CalibFa 546.85 Status: OK,1 Warnings Run Time: 9:44:52 Blank RSD 0
 Method 2010-01 R: 0.9994 R²: 0.998735917 CalibAnal# MeHg CF SD: 30.81903264
 Descr# MHg27001-160908-1 CF RSD%: 5.635722858

Sample/ID	Location	Rinse	Dilute	Blank	ConcHg0(p)	ConcMeHg(ppb)	ConcHg2(p)	ConcPHg(%)	QA	RawData	RunEnd	PeakHg0 (Raw)	PeakMeHg (R-)	PeakHg2 (Raw)	PeakPHg (Raw)	Control (etc)	Flags	RunCount
Clean				0	0.000280436	0.005779				15585-1.RAW		0	0.15335701	3.16016321	0	cleandry	CT	1
WS	A1									15586-1.RAW		20.4861506	0	3.23830492	0	psample10	OK	1
SEQ-IBL1	A2	1	0	0.102136	0.001192259	0.0509979				15587-1.RAW		55.853196	0.65198864	27.8780066	0	psample10	CT	1
SEQ-CAL1	A3	1	0.652	0.140688	0.047533605	0.051194		95.07		15588-1.RAW		77.5873106	26.6458097	28.6477746	0	psample10	CT	1
SEQ-CAL2	A4	1	0.652	0.184388	0.209303988	0.060209		104.65		15589-1.RAW		101.484754	115.11018	33.5771307	0	psample10	CT	1
SEQ-CAL3	A5	1	0.652	0.309245	0.934365027	0.070777		93.44		15590-1.RAW		169.762926	511.610866	39.3563447	0	psample10	CT	1
SEQ-CAL4	A6	1	0.652	0.501331	2.122425045	0.121445		106.12		15591-1.RAW		274.805436	1161.30322	67.0641572	0	psample10	CT	1
SEQ-CAL5	A7	1	0.652	1.106191	4.028921661	0.146968		100.72		15592-1.RAW		605.574228	2203.87367	81.0217566	0	psample10	CT	1
SEQ-ICV1	A8	1	0.652	1.220284	0.571493519	0.402006		114.44		15593-1.RAW		667.966091	313.174053	220.489301	0	psample10	CT	1
SEQ-ICB1	A9	1	0.652	0.168288	0.019225806	0.054086		0.00		15594-1.RAW		92.6807866	11.1656487	30.2289299	0	psample10	CT	1
F609212-BLK4	A10	1	0.652	0.13576	0.042183028	0.106558				15595-1.RAW		74.8926847	23.719839	58.9236506	0	psample10	CT	1
F609212-BLK5	A11	1	0.652	0.119398	0.045217877	0.063922				15596-1.RAW		65.9447492	25.3794508	35.6079545	0	psample10	OK	1
F609212-BLK6	A12	1	0.652	0.103719	0.034988606	0.057384				15597-1.RAW		57.3709991	19.7855587	32.0324811	0	psample10	CT	1
F609212-BS2	A13	5	0.652	1.013878	6.949857828	0.310776				15598-1.RAW		111.540173	1056.05975	34.616193	0	psample10	CT	1
F609212-BSD2	A14	5	0.652	0.941643	10.20353448	0.30453				15599-1.RAW		103.639792	1116.61553	33.9585701	0	psample10	CT	1
F609212-OUP2	A15	5	0.652	1.00955	17.10376528	0.86703				15600-1.RAW		111.066816	1871.29579	95.4792614	0	psample10	CT	1
F609212-M53	A16	5	0.652	1.378771	34.18844965	0.999704	1139.61			15601-1.RAW		151.448601	3739.8527	109.989867	0	psample10	OK	1
F609212-MSD3	A17	5	0.652	1.23989	25.9074659	0.952775				15602-1.RAW		136.25911	2834.15909	104.857315	0	psample10	CT	1
F609212-MS4	A18	5	0.652	1.595564	14.68918904	0.441215	367.23			15603-1.RAW		175.159286	1607.21288	48.9078125	0	psample10	CT	1
F609212-MSD4	A19	5	0.652	1.50718	15.48922435	0.434218				15604-1.RAW		165.492652	1694.71297	48.1425663	0	psample10	CT	1
SEQ-CCV1	A20	1	0.652	0.704126	0.634115869	0.756836	126.98			15605-1.RAW		385.704563	347.419176	414.529026	0	psample10	CT	1
SEQ-CCB1	A21	1	0.652	0.120564	0.024909514	0.14472	0.00			15606-1.RAW		66.5824811	14.2737926	79.7921402	0	psample10	CT	1
1607903-32RE1	B1	1	0.652	0.13058	2.094894509	0.303828				15607-1.RAW		72.0596591	1146.24811	166.800805	0	psample10	OK	1
1607903-33RE1	B2	1	0.652	0.190311	3.627140469	0.315418				15608-1.RAW		104.723934	1984.15904	173.13892	0	psample10	OK	1
1607903-37RE1	B3	1	0.652	0.159582	0.244909504	0.056022				15609-1.RAW		87.9197969	134.581108	31.2877367	0	psample10	OK	1
1608071-01RE1	B4	1	0.652	0.180365	1.106749634	0.065002				15610-1.RAW		99.2847914	605.87964	36.1982718	0	psample10	CT	1
1608071-02RE1	B5	1	0.652	0.238968	4.117763667	0.712223				15611-1.RAW		131.331811	2252.45705	390.13227	0	psample10	CT	1
WS	A1	1	0.652	0.117837	0.037222988	0.010712				15612-1.RAW		65.0914299	21.0074337	6.50980114	0	psample10	CT	1
1608071-05RE1	B6	1	0.652	0.223777	3.006015636	1.353359				15613-1.RAW		123.024667	1644.49602	740.738181	0	psample10	CT	1
1608071-06RE1	B7	1	0.652	0.282857	2.415809882	0.148678				15614-1.RAW		155.332792	1321.74115	81.9568182	0	psample10	CT	1
1608071-07RE1	B8	1	0.652	0.234758	1.636687512	0.162532				15615-1.RAW		129.029585	895.676941	89.5326705	0	psample10	CT	1
1608071-11RE1	B9	1	0.652	0.165912	1.097807604	0.328668				15616-1.RAW		91.3810855	600.989678	180.384614	0	psample10	CT	1
1608072-02RE1	B10	1	0.652	0.09914	0.896231611	0.138297				15617-1.RAW		54.8670888	490.757552	76.2800189	0	psample10	OK	1
SEQ-CCV2	B11	1	0.652	1.044384	0.513291706	0.434913	102.79			15618-1.RAW		571.774986	281.346307	238.484904	0	psample10	CT	1
SEQ-CCB2	B12	1	0.652	0.091202	0.015197537	0.086872	0.00			15619-1.RAW		50.5257102	8.96278409	38.2056345	0	psample10	CT	1
1607903-34RE1	B13	10	0.652	1.147852	22.11688282	1.266758				15620-1.RAW		63.4224669	1210.11695	69.9248106	0	psample10	CT	1
1607903-35RE1	B14	10	0.652	1.107678	10.89567942	0.963701				15621-1.RAW	16:08:49	61.2255208	596.483807	53.3521307	0	psample10	CT	1
1607903-36RE1	B15	10	0.652	1.245184	24.55910483	1.341017				15622-1.RAW		68.7450521	1343.67022	73.9857008	0	psample10	CT	1
1607903-38RE1	B16	10	0.652	0.773181	2.254363712	0.78943				15623-1.RAW		42.9334991	123.932197	43.8220644	0	psample10	OK	1
1607903-39RE1	B17	10	0.652	0.96581	9.465718299	1.243494				15624-1.RAW		53.4674749	518.286174	68.6526278	0	psample10	CT	1
1607903-43RE1	B18	10	0.652	1.466366	18.72996732	0.898823				15625-1.RAW		80.8404437	1024.90298	49.8042377	0	psample10	CT	1
1607903-44RE1	B19	10	0.652	0.966087	21.59486121	1.497218				15626-1.RAW		53.4826167	1181.57012	82.5275805	0	psample10	CT	1
1608071-03RE1	B20	10	0.652	0.752257	5.131876326	1.257137				15627-1.RAW		41.7892519	281.289394	69.3987216	0	psample10	OK	1
1608071-04RE1	B21	10	0.652	0.805446	10.05282063	1.585375				15628-1.RAW		44.6979167	550.391951	87.3484375	0	psample10	CT	1
1608071-10RE1	C1	10	0.652	0.703107	8.525803379	1.258437				15629-1.RAW		39.1014885	466.88679	69.4697917	0	psample10	OK	1
SEQ-CCV3	C2	1	0.652	0.922047	0.519333525	0.46342	104.00			15630-1.RAW		504.874904	284.650284	254.073665	0	psample10	CT	1
SEQ-CCB3	C3	1	0.652	0.066938	0.008269317	0.069291	0.00			15631-1.RAW		37.2571316	5.1740767	38.5436553	0	psample10	OK	1
1608071-02RE2	C4	10	0.652	0.899048	8.710142483	2.014474				15632-1.RAW		49.816572	476.967401	110.813778	0	psample10	CT	1
F609212-M55	C5	20	0.652	1.795071	40.11143579	2.002065	802.23			15633-1.RAW		49.7338376	1097.40185	55.393608	0	psample10	CT	1
F609212-MSD5	C6	20	0.652	1.642737	31.270534	2.045462				15634-1.RAW		45.5686316	855.668845	56.5801847	0	psample10	CT	1
SEQ-CCV4	C7	1	0.652	0.391827	0.711317157	0.594791	142.44			15635-1.RAW		214.922897	389.636813	325.9143	0	psample10	CT	1
SEQ-CCB4	C8	1	0.652	0.0644	0.016357414	0.076849	0.00			15636-1.RAW		35.8693422	9.59706439	42.6769886	0	psample10	CT	1
SEQ-CCV5	C19	1	0.652	0.563612	0.600396279	0.500281	120.23			15637-1.RAW		308.863975	328.979569	274.231124	0	psample10	CT	1
SEQ-CCV6	C20	1	0.652	0.429523	0.632594548	0.531902	126.68			15638-1.RAW		235.537003	346.58724	291.523284	0	psample10	CT	1
SEQ-CCB5	C21	1	0.652	0.064825	0.008420622	0.078394	0.00			15639-1.RAW	19:18:01	36.1018939	5.25681818	43.522017	0	psample10	OK	1

MethylMercury EPA1630
 Operat: RN
 BlankS: 0.652
 Calib Eqn: Conc = (Area-0.652) / 546.85
 Conc = (Area-0.652) / 546.85
 Status: OK, 1 Warnings
 Run Date: #####
 Blank SD: 0
 Run Time: 9:44:52
 Blank RSD: 0
 Method 2010-01-R: 0.9994
 R²: 0.998735917
 CalibAnaly: MeHg
 CF SD: 30.81903264
 CF RSD%: 5.635722858

Sample/ID	Location	Rinse	Dilute	Blank	ConcHgD(ppm)	ConcMeHg(ppm)	ConcHg2(ppm)	ConcPrHg(µg/g Rec%)	QA	RawData	RunEnd	PeakHgD (Raw)	PeakMeHg (R)	PeakHg2 (Raw)	PeakPrHg (Raw)	Control (ref)	Flags	RunCount
Clean				0		0.000280436	0.0057788			15585-1.RAW	9:50:23	0	0.153357008	3.160163207	0	cleandry	CT	1
WS	A1									15586-1.RAW	10:00:54	21.02990057	0	3.359943182	0	psample10	OK	1
SEQ-1BL1	A2			1	0	0.102136	0.001192259	0.0509791		15587-1.RAW	10:11:25	55.85319602	0.651988636	27.87800663	0	psample10	CT	1
SEQ-CAL1	A3			1	0.652	0.1406878	0.047533605	0.0511945		15588-1.RAW	10:21:55	77.58731061	26.64580966	28.64777462	0	psample10	CT	1
SEQ-CAL2	A4			1	0.652	0.1843879	0.209303988	0.060208	95.07	15589-1.RAW	10:32:26	101.4847538	115.1101799	33.57682292	0	psample10	CT	1
SEQ-CAL3	A5			1	0.652	0.3092447	0.934365027	0.0707767	104.65	15590-1.RAW	10:42:57	169.7629261	511.6108665	39.3563447	0	psample10	CT	1
SEQ-CAL4	A6			1	0.652	0.5013307	2.122425045	0.1214446	93.44	15591-1.RAW	10:53:28	274.8054361	1161.30322	67.0641572	0	psample10	CT	1
SEQ-CAL5	A7			1	0.652	1.1061911	4.028921661	0.1469682	106.12	15592-1.RAW	11:03:58	605.5742282	2203.873674	81.02175663	0	psample10	CT	1
SEQ-ICV1	A8			1	0.652	1.2205888	0.571493519	0.4020055	100.72	15593-1.RAW	11:14:29	668.1327561	313.174053	220.4893013	0	psample10	CT	1
SEQ-ICB1	A9			1	0.652	0.1682885	0.019225806	0.0540859	114.44	15594-1.RAW	11:25:00	92.68078662	11.16564867	30.22892992	0	psample10	CT	1
F609212-BLK4	A10			1	0.652	0.1357603	0.042137139	0.1065585	0.00	15595-1.RAW	11:35:30	74.89268466	23.69474432	58.92365057	0	psample10	CT	1
F609212-BLK5	A11			1	0.652	1.1939976	0.045217877	0.0637098		15596-1.RAW	11:46:01	65.94474921	25.37945076	35.49176136	0	psample10	OK	1
F609212-BLK6	A12			1	0.652	0.1037192	0.034988606	0.0558997		15597-1.RAW	11:56:32	57.37099905	19.78555871	31.22083333	0	psample10	CT	1
F609212-BS2	A13			5	0.652	1.0138785	9.64997082	0.3107757		15598-1.RAW	12:07:02	111.5401728	1056.072112	34.64161932	0	psample10	CT	1
F609212-BS2	A14			5	0.652	0.9416433	10.20353448	0.3045304		15599-1.RAW	12:17:33	103.6397916	1116.61553	33.95857008	0	psample10	CT	1
F609212-DUP2	A15			5	0.652	1.0095505	17.10376528	0.8670295		15600-1.RAW	12:28:04	111.0668162	1871.295786	95.47926136	0	psample10	CT	1
F609212-MS3	A16			5	0.652	1.3787712	34.18844965	1.0004444	1139.61	15601-1.RAW	12:38:34	151.4486012	3739.852699	110.0708807	0	psample10	CT	1
F609212-MSD3	A17			5	0.652	1.2403826	25.9074659	0.9527754		15602-1.RAW	12:49:05	136.3129962	2834.159091	104.8573153	0	psample10	CT	1
F609212-MS4	A18			5	0.652	1.595564	14.68918904	0.4412151	367.23	15603-1.RAW	12:59:36	175.159286	1607.212879	48.9078125	0	psample10	CT	1
F609212-MSD4	A19			5	0.652	1.5071795	15.48922435	0.4234308		15604-1.RAW	13:10:07	165.4926523	1694.712973	46.96273674	0	psample10	CT	1
SEQ-CCV1	A20			1	0.652	0.7041264	0.634115869	0.7568363	126.98	15605-1.RAW	13:20:38	385.7045625	347.4191761	414.5290256	0	psample10	CT	1
SEQ-CCB1	A21			1	0.652	0.1205638	0.024909514	0.1447196	0.00	15606-1.RAW	13:31:08	66.58248106	14.27379261	79.79212015	0	psample10	CT	1
1607903-32RE1	B1			1	0.652	0.1305796	2.094894509	0.3038281		15607-1.RAW	13:41:39	72.05965909	1146.248106	166.8008049	0	psample10	OK	1
1607903-33RE1	B2			1	0.652	0.1903112	3.627193285	0.3154183		15608-1.RAW	13:52:10	104.7239335	1984.187926	173.1389205	0	psample10	OK	1
1607903-37RE1	B3			1	0.652	0.1595823	0.244909504	0.0560221		15609-1.RAW	14:02:41	87.91979685	134.581108	31.28773674	0	psample10	OK	1
1608071-01RE1	B4			1	0.652	0.1803649	1.106749634	0.0650017		15610-1.RAW	14:13:11	99.2847914	605.8796402	36.19827178	0	psample10	CT	1
1608071-02RE1	B5			1	0.652	0.2390724	4.117763667	0.7122232		15611-1.RAW	14:23:42	131.3890625	2252.457055	390.13227	0	psample10	CT	1
WS	A1			1	0.652	0.1178372	0.037222988	0.0092784		15612-1.RAW	14:34:13	65.09142992	21.00743371	5.725875947	0	psample10	CT	1
1608071-05RE1	B6			1	0.652	0.2237768	3.006015636	1.3533587		15613-1.RAW	14:44:43	123.0246673	1644.496023	740.7381806	0	psample10	CT	1
1608071-06RE1	B7			1	0.652	0.2828571	2.415809882	0.1486781		15614-1.RAW	14:55:14	155.3327922	1321.741146	81.95681818	0	psample10	CT	1
1608071-07RE1	B8			1	0.652	0.2347577	1.636687512	0.1625317		15615-1.RAW	15:05:45	129.0295851	895.6769413	89.53267045	0	psample10	CT	1
1608071-11RE1	B9			1	0.652	0.1659118	1.097807604	0.3286681		15616-1.RAW	15:16:16	91.38108551	600.989678	180.3846143	0	psample10	CT	1
1608072-02RE1	B10			1	0.652	0.0991405	0.896231611	0.1382815		15617-1.RAW	15:26:46	54.86708877	490.7575521	76.27140152	0	psample10	OK	1
SEQ-CCV2	B11			1	0.652	1.0443842	0.513291706	0.4349132	102.79	15618-1.RAW	15:37:17	571.7749855	281.3463068	238.4849043	0	psample10	CT	1
SEQ-CCB2	B12			1	0.652	0.0912016	0.015197537	0.0686725	0.00	15619-1.RAW	15:47:48	50.52571023	8.962784091	38.20563447	0	psample10	CT	1
1607903-34RE1	B13			10	0.652	1.1478524	22.11688282	1.2667576		15620-1.RAW	15:58:19	63.42246686	1210.116951	69.92481061	0	psample10	CT	1
1607903-35RE1	B14			10	0.652	1.107678	10.89567942	0.9637012		15621-1.RAW	16:08:49	61.22552083	596.4838068	53.35213068	0	psample10	CT	1
1607903-36RE1	B15			10	0.652	1.2451839	24.55910483	1.341017		15622-1.RAW	16:19:20	68.74505208	1343.670218	73.98570076	0	psample10	CT	1
1607903-38RE1	B16			10	0.652	0.7731809	2.254363712	0.7894297		15623-1.RAW	16:29:51	42.93349905	123.932197	43.82206439	0	psample10	OK	1
1607903-39RE1	B17			10	0.652	0.9658105	9.465718299	1.2049532		15624-1.RAW	16:40:22	53.46747492	518.2861742	66.54502841	0	psample10	CT	1
1607903-43RE1	B18			10	0.652	1.4663663	18.72996732	0.8988227		15625-1.RAW	16:50:52	80.84044373	1024.902283	49.80423769	0	psample10	CT	1
1607903-44RE1	B19			10	0.652	0.9653717	21.59486121	1.4972181		15626-1.RAW	17:01:23	53.44348321	1181.570123	82.52758049	0	psample10	CT	1
1608071-03RE1	B20			10	0.652	0.7522566	5.131876326	1.2571372		15627-1.RAW	17:11:54	41.78925189	281.2893939	69.39872159	0	psample10	OK	1
1608071-04RE1	B21			10	0.652	0.8054459	10.04816026	1.5904719		15628-1.RAW	17:22:25	44.69791667	550.1370975	87.62717803	0	psample10	CT	1
1608071-10RE1	C1			10	0.652	0.7031068	8.525803379	1.2645644		15629-1.RAW	17:32:54	39.10148852	466.8867898	69.80487689	0	psample10	OK	1
SEQ-CCV3	C2			1	0.652	0.9220473	0.519333525	0.4634196	104.00	15630-1.RAW	17:43:25	504.8749044	284.6502841	254.0736653	0	psample10	CT	1
SEQ-CCB3	C3			1	0.652	0.0669938	0.008269317	0.0692906	0.00	15631-1.RAW	17:53:56	37.25713164	5.174076705	38.5436553	0	psample10	OK	1
1608071-02RE2	C4			10	0.652	0.8990482	8.710142483	2.0144737		15632-1.RAW	18:04:26	49.81657197	476.9674006	110.8137784	0	psample10	CT	1
F609212-MS5	C5			20	0.652	1.7950706	40.11143579	2.0247434	802.23	15633-1.RAW	18:14:57	49.73383762	1097.401847	56.01368371	0	psample10	CT	1
F609212-MSD5	C6			20	0.652	1.6427365	31.270534	2.0454621		15634-1.RAW	18:25:28	45.56863163	855.6688447	56.58018466	0	psample10	CT	1
SEQ-CCV4	C7			1	0.652	0.3918265	0.711379108	0.594791	142.45	15635-1.RAW	18:35:58	214.9228966	389.6706913	325.9142999	0	psample10	CT	1
SEQ-CCB4	C8			1	0.652	0.0644002	0.015841634	0.0768882	0.00	15636-1.RAW	18:46:29	35.86934219	9.31500947	42.69839015	0	psample10	CT	1
SEQ-CCV5	C19			1	0.652	0.5636119	0.600396279	0.5002805	120.23	15637-1.RAW	18:57:00	308.8639751	328.9795691	274.2311244	0	psample10	CT	1
SEQ-CCV6	C20			1	0.652	0.4295225	0.632594548	0.5319018	126.68	15638-1.RAW	19:07:30	235.5370028	346.5872396	291.5232836	0	psample10	CT	1


SEQ-CCB5	C21	1	0.652	0.0648255	0.008420622	0.0783943	0.00	15639-1.RAW	19:18:01	36.10189394	5.256818182	43.52201705	0 psample10	OK	1
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Failing Data Report - 6I09004

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
1608071-02RE1	MHg-CVAFS-S-MeClExt	5.77	0.143				ng/g						FAIL-OVER	PASS	E
F609212-MS3	MHg-CVAFS-S-MeClExt	62.39	0.920		31.69	18.288	ng/g	168	65.00	130.00			FAIL-OVER	FAIL-MS	B
F609212-MSD3	MHg-CVAFS-S-MeClExt	45.45	0.885	62.39	31.69	17.590	ng/g	78.3	65.00	130.00	72.8	35.00	FAIL-OVER	FAIL-MSD (RPD)	E
F609212-MS5	MHg-CVAFS-S-MeClExt	73.21	3.68		31.69	18.288	ng/g	227	65.00	130.00			PASS-OVER	FAIL-MS	AM-02
F609212-MSD5	MHg-CVAFS-S-MeClExt	54.88	3.54	73.21	31.69	17.590	ng/g	132	65.00	130.00	53.1	35.00	PASS-OVER	FAIL-MSD (Rec. and RPD)	AM-02
6I09004-CCV4	MHg-CVAFS-S-MeClExt	0.711	0.201			0.50049	ng/L	142	67.00	133.00			PASS-OVER	FAIL-CCV	DNR




 Analyst Reviewed By _____ Date 9/30/16



 Peer Reviewed By _____ Date 9-30-16

ANALYSIS SEQUENCE

6I09004

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/8/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6I09004-IBL1	QC	1			
6I09004-CAL1	QC	2	1604163		
6I09004-CAL2	QC	3	1604164		
6I09004-CAL3	QC	4	1604165		
6I09004-CAL4	QC	5	1604166		
6I09004-CAL5	QC	6	1604167		
6I09004-ICV1	QC	7	1605079		
6I09004-ICB1	QC	8			
F609212-BLK4	QC	9			
F609212-BLK5	QC	10			
F609212-BLK6	QC	11			
F609212-BS2	QC	12			
F609212-BSD2	QC	13			
F609212-DUP2	QC	14			
F609212-MS3	QC	15			
F609212-MSD3	QC	16			
F609212-MS4	QC	17			
F609212-MSD4	QC	18			
6I09004-CCV1	QC	19	1605079		
6I09004-CCB1	QC	20			
1607903-32RE1	MHg-CVAFS-S-MeClExt	21			Added 9/8/2016 by DMH
1607903-33RE1	MHg-CVAFS-S-MeClExt	22			Added 9/8/2016 by DMH
1607903-37RE1	MHg-CVAFS-S-MeClExt	23			Added 9/8/2016 by DMH
1608071-01RE1	MHg-CVAFS-S-MeClExt	24			Added 9/8/2016 by DMH
1608071-02RE1	MHg-CVAFS-S-MeClExt	25			Added 9/8/2016 by DMH
1608071-05RE1	MHg-CVAFS-S-MeClExt	26			Added 9/8/2016 by DMH
1608071-06RE1	MHg-CVAFS-S-MeClExt	27			Added 9/8/2016 by DMH
1608071-07RE1	MHg-CVAFS-S-MeClExt	28			Added 9/8/2016 by DMH
1608071-11RE1	MHg-CVAFS-S-MeClExt	29			Added 9/8/2016 by DMH
1608072-02RE1	MHg-CVAFS-S-MeClExt	30			Added 9/8/2016 by DMH
6I09004-CCV2	QC	31	1605079		
6I09004-CCB2	QC	32			
1607903-34RE1	MHg-CVAFS-S-MeClExt	33			Added 9/8/2016 by DMH
1607903-35RE1	MHg-CVAFS-S-MeClExt	34			Added 9/8/2016 by DMH
1607903-36RE1	MHg-CVAFS-S-MeClExt	35			Added 9/8/2016 by DMH

Due Date: 9/30/2016

ANALYSIS SEQUENCE

6I09004

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/8/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1607903-38RE1	MHg-CVAFS-S-MeClExt	36			Added 9/8/2016 by DMH
1607903-39RE1	MHg-CVAFS-S-MeClExt	37			Added 9/8/2016 by DMH
1607903-43RE1	MHg-CVAFS-S-MeClExt	38			Added 9/8/2016 by DMH
1607903-44RE1	MHg-CVAFS-S-MeClExt	39			Added 9/8/2016 by DMH
1608071-03RE1	MHg-CVAFS-S-MeClExt	40			Added 9/8/2016 by DMH
1608071-04RE1	MHg-CVAFS-S-MeClExt	41			Added 9/8/2016 by DMH
1608071-10RE1	MHg-CVAFS-S-MeClExt	42			Added 9/8/2016 by DMH
6I09004-CCV3	QC	43	1605079		
6I09004-CCB3	QC	44			
1608071-02RE2	MHg-CVAFS-S-MeClExt	45			Added 9/9/2016 by RN
F609212-MS5	QC	46			
F609212-MSD5	QC	47			
6I09004-CCV4	QC	48	1605079		
6I09004-CCB4	QC	49			
6I09004-CCV5	QC	50	1605079		
6I09004-CCV6	QC	51	1605079		
6I09004-CCB5	QC	52			

9/30/16
 Samples Loaded By _____ Date _____

9/30/16
 Data Processed By _____ Date _____

Due Date: 9/30/2016

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 9/8/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609212-BLK1	Blank	0.5	250					
F609212-BLK2	Blank	0.5	250					
F609212-BLK3	Blank	0.5	250					
F609212-BLK4	Blank	0.5	250					
F609212-BLK5	Blank	0.5	250					
F609212-BLK6	Blank	0.5	250					
F609212-BS1	Blank Spike	0.5	250	1506872	25			
F609212-BS2	LCS	0.5	250	1506872	25			Added 9/9/2016 by RN
F609212-BSD1	Blank Spike dup	0.5	250	1506872	25			
F609212-BSD2	LCS Dup	0.5	250	1506872	25			Added 9/9/2016 by RN
F609212-DUP1	Duplicate [1607903-43RE1]	0.523	250					
F609212-DUP2	Duplicate [1607903-43RE1]	0.523	250					Added 9/9/2016 by RN
F609212-MS1	Matrix Spike [1607903-43RE1]	0.554	250	1506872	25			
F609212-MS2	Matrix Spike [1608071-06RE1]	0.533	250	1506872	25			
F609212-MS3	Matrix Spike [1607903-43RE1]	0.554	250	1506872	25			Added 9/9/2016 by RN
F609212-MS4	Matrix Spike [1608071-06RE1]	0.533	250	1506872	25			Added 9/9/2016 by RN
F609212-MS5	Matrix Spike [1607903-43RE1]	0.554	250	1506872	25			Added 9/9/2016 by RN
F609212-MSD1	Matrix Spike Dup [1607903-43RE1]	0.576	250	1506872	25			
F609212-MSD2	Matrix Spike Dup [1608071-06RE1]	0.561	250	1506872	25			
F609212-MSD3	Matrix Spike Dup [1607903-43RE1]	0.576	250	1506872	25			Added 9/9/2016 by RN
F609212-MSD4	Matrix Spike Dup [1608071-06RE1]	0.561	250	1506872	25			Added 9/9/2016 by RN
F609212-MSD5	Matrix Spike Dup [1607903-43RE1]	0.576	250	1506872	25			Added 9/9/2016 by RN

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Date: 9/30/2016

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/8/2016

<u>Standard ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>	<u>Reagent ID(s):</u>	<u>Description:</u>	<u>Expiration:</u>
1506872	MHg New Primary 100 ng/mL spike	03-Nov-16 00:00	1600451	Boiling Chips for AFS prep	14-Dec-16 00:00
			1604517	Ethylating Agent (For Methyl Mercury Analysis)	07-Feb-17 00:00
			1604614	Acetate Buffer	15-Feb-17 00:00
			1604634	Dichloromethane	15-Aug-19 00:00
			1604778	CuSO ₄	16-Oct-16 00:00
			1605015	Acid Bromide	30-Sep-16 00:00

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 9/8/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607903-32	W-65-Mid_072516_SED_03	0.541	250	-	-	-		
1607903-32RE1	W-65-Mid_072516_SED_03	0.541	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-33	ES-15_072716_SED_03	0.526	250	-	-	-		
1607903-33RE1	ES-15_072716_SED_03	0.526	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-34	SVE-01_072716_SED_03	0.589	250	-	-	-		
1607903-34RE1	SVE-01_072716_SED_03	0.589	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-35	OL-01_072716_SED_03	0.587	250	-	-	-		
1607903-35RE1	OL-01_072716_SED_03	0.587	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-36	W17-N_072116_SED_03	0.576	250	-	-	-		
1607903-36RE1	W17-N_072116_SED_03	0.576	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-37	ADD-01_072116_SED_03	0.558	250	-	-	-		
1607903-37RE1	ADD-01_072116_SED_03	0.558	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-38	ADD-02_072216_SED_03	0.575	250	-	-	-		
1607903-38RE1	ADD-02_072216_SED_03	0.575	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-39	W-17-Low_072616_SED_03_DUP	0.538	250	-	-	-		
1607903-39RE1	W-17-Low_072616_SED_03_DUP	0.538	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-43	BO-04-02_072616_SED_03	0.597	250	QC	-	-	MS/MSD	
1607903-43RE1	BO-04-02_072616_SED_03	0.597	250	QC	-	-	MS/MSD Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-44	BO-04-02_072616_SED_03_DUP	0.584	250	-	-	-		

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Date: 9/30/2016

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 9/8/2016

1607903-44RE1	BO-04-02_072616_SED_03_DUP	0.584	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-01	ES-04_072816_SED_03	0.521	250	-	-	-		
1608071-01RE1	ES-04_072816_SED_03	0.521	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-02	E-01-01_072816_SED_03	0.564	250	-	-	-		
1608071-02RE1	E-01-01_072816_SED_03	0.564	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-02RE2	E-01-01_072816_SED_03	0.564	250	-	-	-	Added 9/9/2016 by RN	Added 9/9/2016 by RN
1608071-03	E-01-03_072816_SED_03	0.543	250	-	-	-		
1608071-03RE1	E-01-03_072816_SED_03	0.543	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-04	E-01-04_072816_SED_03	0.594	250	-	-	-		
1608071-04RE1	E-01-04_072816_SED_03	0.594	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-05	ES-03_072816_SED_03	0.519	250	-	-	-		
1608071-05RE1	ES-03_072816_SED_03	0.519	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-06	ES-FP_072816_SED_03	0.525	250	QC	-	-	MS/MSD	
1608071-06RE1	ES-FP_072816_SED_03	0.525	250	QC	-	-	MS/MSD Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-07	ES-FP_072816_SED_03_DUP	0.572	250	-	-	-		
1608071-07RE1	ES-FP_072816_SED_03_DUP	0.572	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-10	MMPOLY_072916_SED_03	0.58	250	-	-	-		
1608071-10RE1	MMPOLY_072916_SED_03	0.58	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-11	L9-45_072816_SED_03	0.597	288	-	-	-		
1608071-11RE1	L9-45_072816_SED_03	0.597	288	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-12	BO-04_072516_SED_03_DUP	0.553	288	-	-	-		

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Date: 9/30/2016

PREPARATION BENCH SHEET

F609212

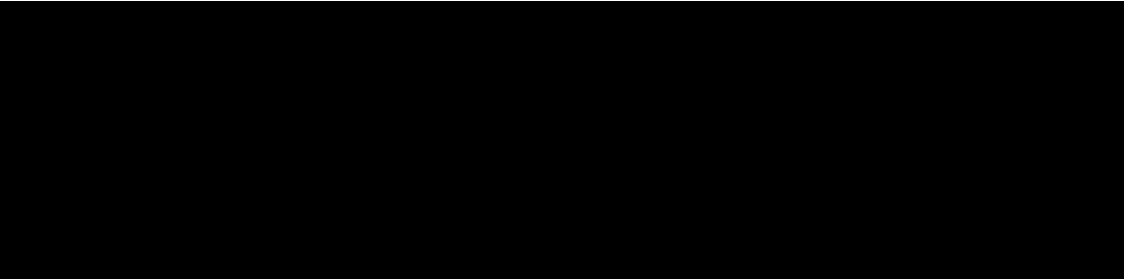
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 9/8/2016

1608072-02RE1	BO-04_072516_SED_03_DUP	0.553	288	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
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PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

for 9/8/16
2700

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/8/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609212-BLK1	Blank	0.5	250					
F609212-BLK2	Blank	0.5	250					
F609212-BLK3	Blank	0.5	250					
F609212-BLK4	Blank 1x	0.5	288					
F609212-BLK5	Blank 1x	0.5	288					
F609212-BLK6	Blank 1x	0.5	288					
F609212-BS1	Blank Spike	0.5	250	1506872	25			
F609212-BSD1	Blank Spike dup	0.5	250	1506872	25			
F609212-DUP1	Duplicate [1607903-43] Sx	0.523	250					as DUP2
F609212-MS1	Matrix Spike [1607903-43] Sx → 20x	0.554	250	1506872	25			as MS3 9MSS
F609212-MS2	Matrix Spike [1608071-06] Sx → 20x	0.533	250	1506872	25			as MS4
F609212-MSD1	Matrix Spike Dup [1607903-43] Sx → 20x	0.576	250	1506872	25			as MSD3 + MSD5
F609212-MSD2	Matrix Spike Dup [1608071-06] Sx	0.561	250	1506872	25			as MSD4

Standard ID(s): 1506872
Description: MHg New Primary 100 ng/mL spike

Expiration: 03-Nov-16 00:00

Reagent ID(s):
1600451 Boiling Chips for AFS prep
1604517 Ethylating Agent (For Methyl Mercury Analysis)
1604614 Acetate Buffer
1604634 Dichloromethane
1604778 CuSO₄
1605015 Acid Bromide

Expiration:
14-Dec-16 00:00
07-Feb-17 00:00
15-Feb-17 00:00
15-Aug-19 00:00
16-Oct-16 00:00
30-Sep-16 00:00

BS2/BSD2 runs of
BS1/BSD1 @ Sx

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/8/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1607903-32	W-65-Mid_072516_SED_03 <i>12 9/8/16</i>	0.541	250	-	-	-		
1607903-32RE1	W-65-Mid_072516_SED_03 <i>10x</i>	0.541	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-33	ES-15_072716_SED_03	0.526	250	-	-	-		
1607903-33RE1	ES-15_072716_SED_03 <i>10x</i>	0.526	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-34	SVE-01_072716_SED_03	0.589	250	-	-	-		
1607903-34RE1	SVE-01_072716_SED_03 <i>10x</i>	0.589	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-35	OL-01_072716_SED_03	0.587	250	-	-	-		
1607903-35RE1	OL-01_072716_SED_03 <i>10x</i>	0.587	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-36	W17-N_072116_SED_03	0.576	250	-	-	-		
1607903-36RE1	W17-N_072116_SED_03 <i>10x</i>	0.576	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-37	ADD-01_072116_SED_03	0.558	250	-	-	-		
1607903-37RE1	ADD-01_072116_SED_03 <i>10x</i>	0.558	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-38	ADD-02_072216_SED_03	0.575	250	-	-	-		
1607903-38RE1	ADD-02_072216_SED_03 <i>10x</i>	0.575	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-39	W-17-Low_072616_SED_03_DUP	0.538	250	-	-	-		
1607903-39RE1	W-17-Low_072616_SED_03_DUP <i>10x</i>	0.538	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-43	BO-04-02_072616_SED_03	0.597	250	QC	-	-	MS/MSD	
1607903-43RE1	BO-04-02_072616_SED_03 <i>10x</i>	0.597	250	QC	-	-	MS/MSD Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1607903-44	BO-04-02_072616_SED_03_DUP	0.584	250	-	-	-		

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Date: 9/30/2016

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/8/2016

1607903-44RE1	BO-04-02_072616_SED_03_DUP <i>10x</i>	0.584	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-01	ES-04_072816_SED_03	0.521	250	-	-	-		
1608071-01RE1	ES-04_072816_SED_03 <i>1x</i>	0.521	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-02	E-01-01_072816_SED_03	0.564	250	-	-	-		
1608071-02RE1	E-01-01_072816_SED_03 <i>1x → 10x</i>	0.564	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-03	E-01-03_072816_SED_03	0.543	250	-	-	-		
1608071-03RE1	E-01-03_072816_SED_03 <i>10x</i>	0.543	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-04	E-01-04_072816_SED_03	0.594	250	-	-	-		
1608071-04RE1	E-01-04_072816_SED_03 <i>10x</i>	0.594	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-05	ES-03_072816_SED_03	0.519	250	-	-	-		
1608071-05RE1	ES-03_072816_SED_03 <i>1x</i>	0.519	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-06	ES-FP_072816_SED_03	0.525	250	QC	-	-	MS/MSD	
1608071-06RE1	ES-FP_072816_SED_03 <i>1x</i>	0.525	250	QC	-	-	MS/MSD Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-07	ES-FP_072816_SED_03_DUP	0.572	250	-	-	-		
1608071-07RE1	ES-FP_072816_SED_03_DUP <i>1x</i>	0.572	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-10	MMPOLY_072916_SED_03	0.58	250	-	-	-		
1608071-10RE1	MMPOLY_072916_SED_03 <i>10x</i>	0.58	250	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
1608071-11	L9-45_072816_SED_03	0.597	288	-	-	-		
171-11RE1	L9-45_072816_SED_03 <i>1x</i>	0.597	288	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH
172-02	BO-04_072516_SED_03_DUP	0.553	288	-	-	-		
172-02RE1	BO-04_072516_SED_03_DUP <i>1x → 10x</i>	0.553	288	-	-	-	Added 9/8/2016 by DMH	Added 9/8/2016 by DMH

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Date: 9/30/2016

*DMH
9.30.16*

PREPARATION BENCH SHEET

F609212

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 9/8/2016



Methyl Mercury Sediment Preparation : EFAFS-T-AFS-SOP5134

Technician: Dufren Batch#: F609212 Date: 9/11/16

Heat Block 45°C (nitrogen purge for 30 minutes). Balance#: 10 Calibrated? Yes No

Date of purging:	Actual Temp (raw) °C	W/CF °C	Hot Block Unit # (10 or 11)	Date of purging:	Actual Temp (raw) °C	W/CF °C	Hot Block Unit # (10 or 11)
9/2/16				9/8/16 re-purges			
1 st time in: 10:20	10:20	49.8	11	1 st time in: 8:30	49.0	49.4	10
1 st time out: 10:50	10:50	49.8	11	1 st time out: 9:10	50.2	50.6	10
2 nd time in: 10:55	10:55	49.9	10	2 nd time in: 9:05	49.7	50.1	11
2 nd time out: 11:25	11:25	50.1	10	2 nd time out: 9:35	49.9	50.3	11
3 rd time in: 11:30	11:30	50.2	11	3 rd time in: 9:40	49.8	50.2	10
3 rd time out: 12:05	12:05	50.5	11	3 rd time out: 10:10	50.5	50.9	10
4 th time in: 12:10	12:10	50.2	10	4 th time in: 10:15	50.3	50.7	11
4 th time out: 12:40	12:40	50.3	10	4 th time out: 10:45	50.1	50.5	11

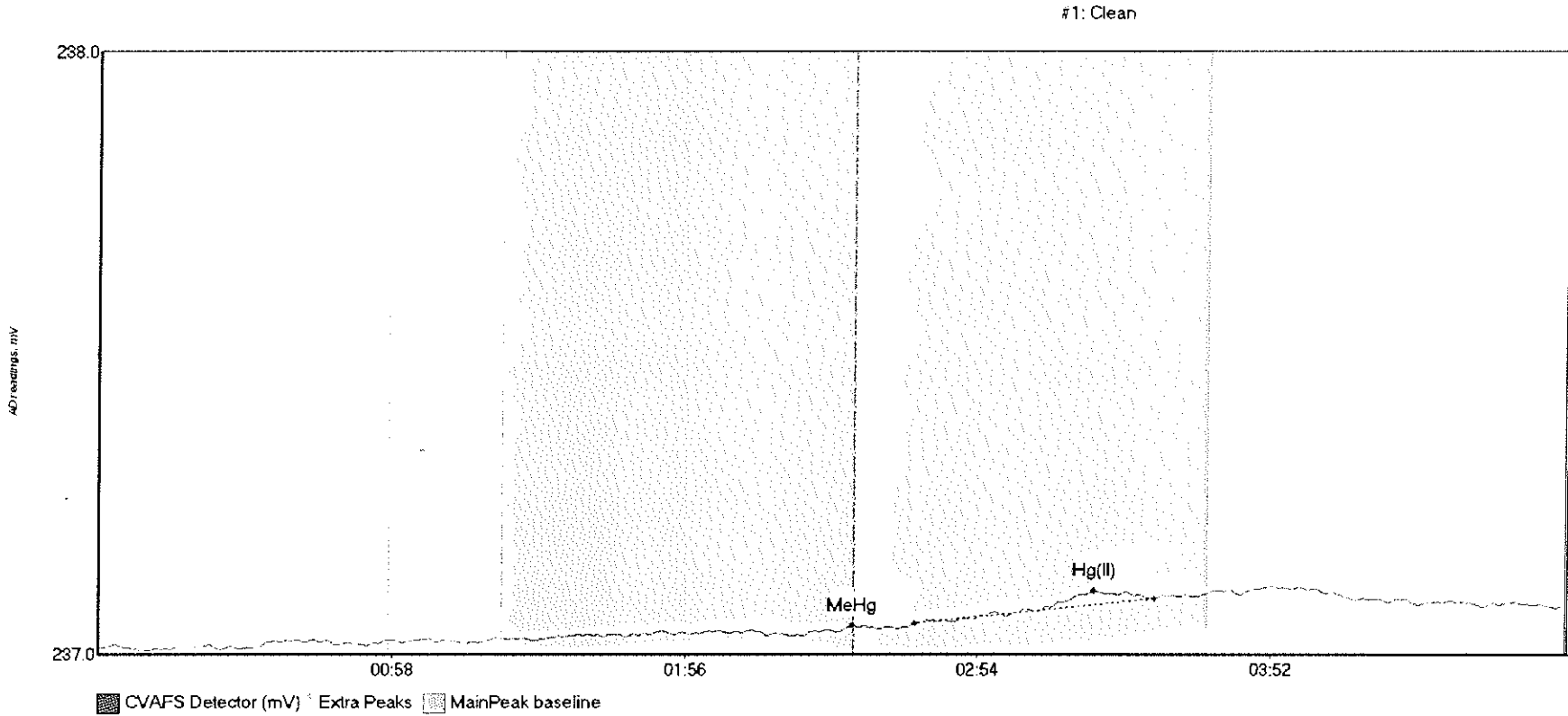
Final vol.: 50 ml (LIMS ID: N/A) Spike vol.: 25 µl (LIMS ID: 15068782)

Spike Witness: DM 9-2-16 (initial and date)

Acid Bromide LIMS ID: 1605015 Pipette SN#: CT17087 Calibration Date: 8/30/16
 CH₂Cl₂ LIMS ID: 1604634 Pipette SN#: 624486 Calibration Date: 8/30/16
 CuSO₄ LIMS ID: 1604778 Dispenser #: 12391647 Calibrated? Yes No
 Other Acid LIMS ID: N/A Boiling Chip lot # 1600451

Centrifuge Tube Lot #: 49308 J237721-6560

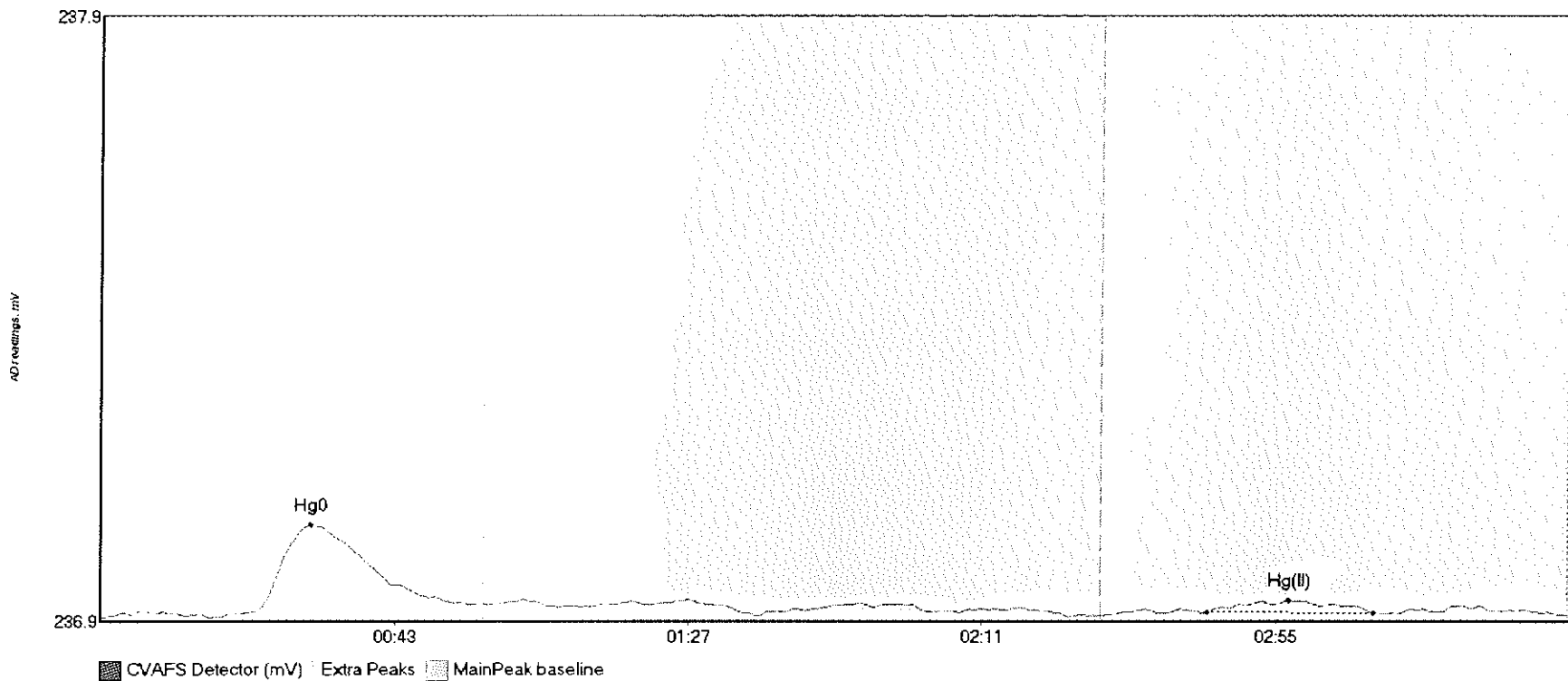
Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	Comments
1	F608071		23	1608071 -02	0.564	Thermometer SN:
2	F609212 Blank1	0.549	24	1608071 -03	0.543	140418015
3	F609212 Blank2	0.507	25	1608071 -04	0.594	Dupl. MS1, MS1
4	F609212 Blank3	0.514	26	1608071 -05	0.519	source
5	F609212 BS1	0.503	27	1608071 -06	0.525	1607903-43
6	F609212 BS01	0.499	28	1608071 -07	0.572	MS2, MS02
7	F609212 H Dupl	0.523	29	1608071 -10	0.580	1608071-06
8	F609212 MS1	0.554	30	1608071 -11	0.597	1607903-35
9	F609212 MS01	0.576	31	1608072 -02	0.553	35 - 0.587g
10	F609212 MS2	0.533	32			weigh samples
11	F609212 MS02	0.561	33			on 9/11/16
12	1607903-32	0.541	34			9/11/16
13	1607903-33	0.526	35			
14	1607903-34	0.589	36			Re-purged samples
15	1607903 0.589g-35	0.587	37			on 9/8/16
16	1607903-36	0.576	38			
17	1607903-37	0.558	39			
18	1607903-38	0.575	40			
19	1607903-39	0.538	41			
20	1607903-43	0.597	42			
21	1607903-44	0.584	43			
22	1608071-01	0.521	44			



ALL CHROMATOGRAMS REVIEWED 9-30-16 DMW

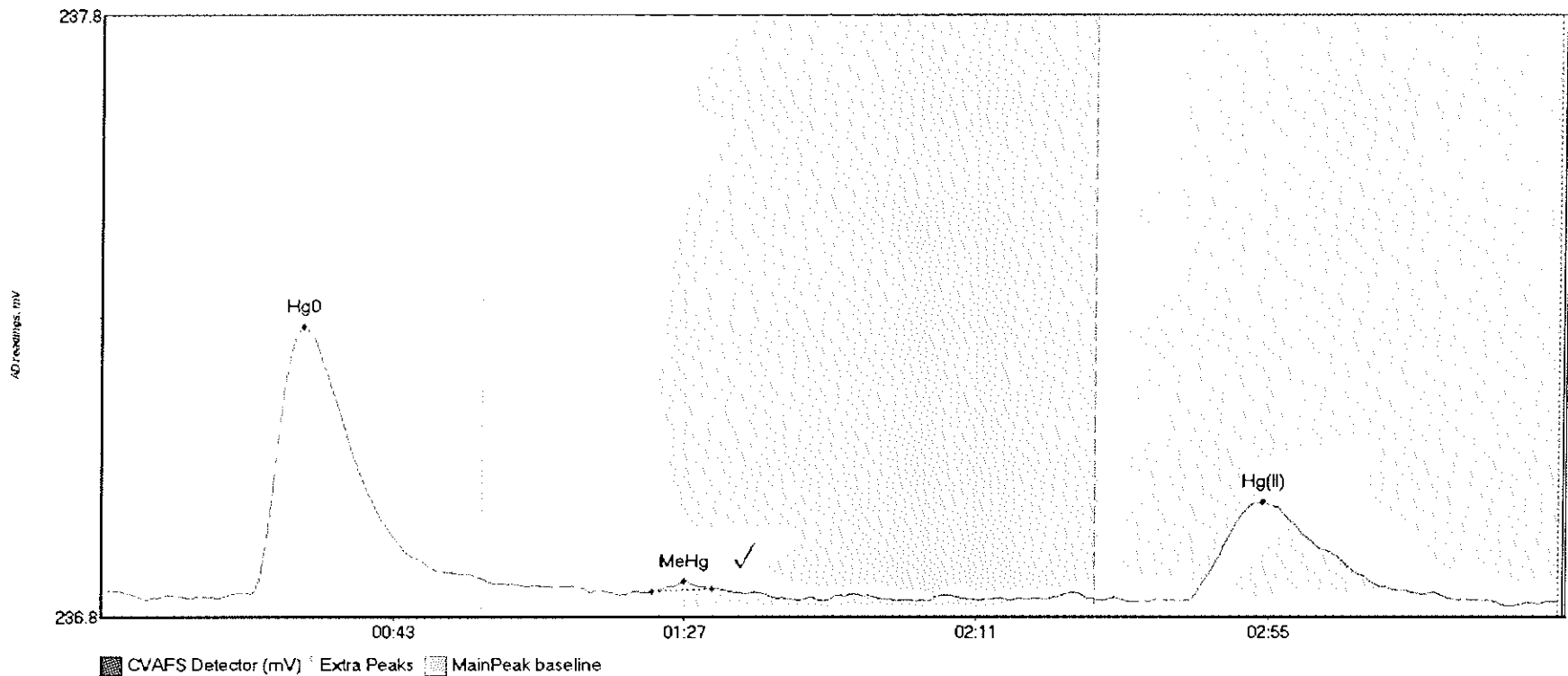
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
Clean MeHg	0.153	139.9	150.0	237.05	237.07	149.7	0.017	CT	237.0287	0.00	0.07	
Clean Hg(II)	3.160	162.1	209.5	237.07	237.11	197.7	0.054	OK	237.0287	0.00	0.07	016

#2: WS



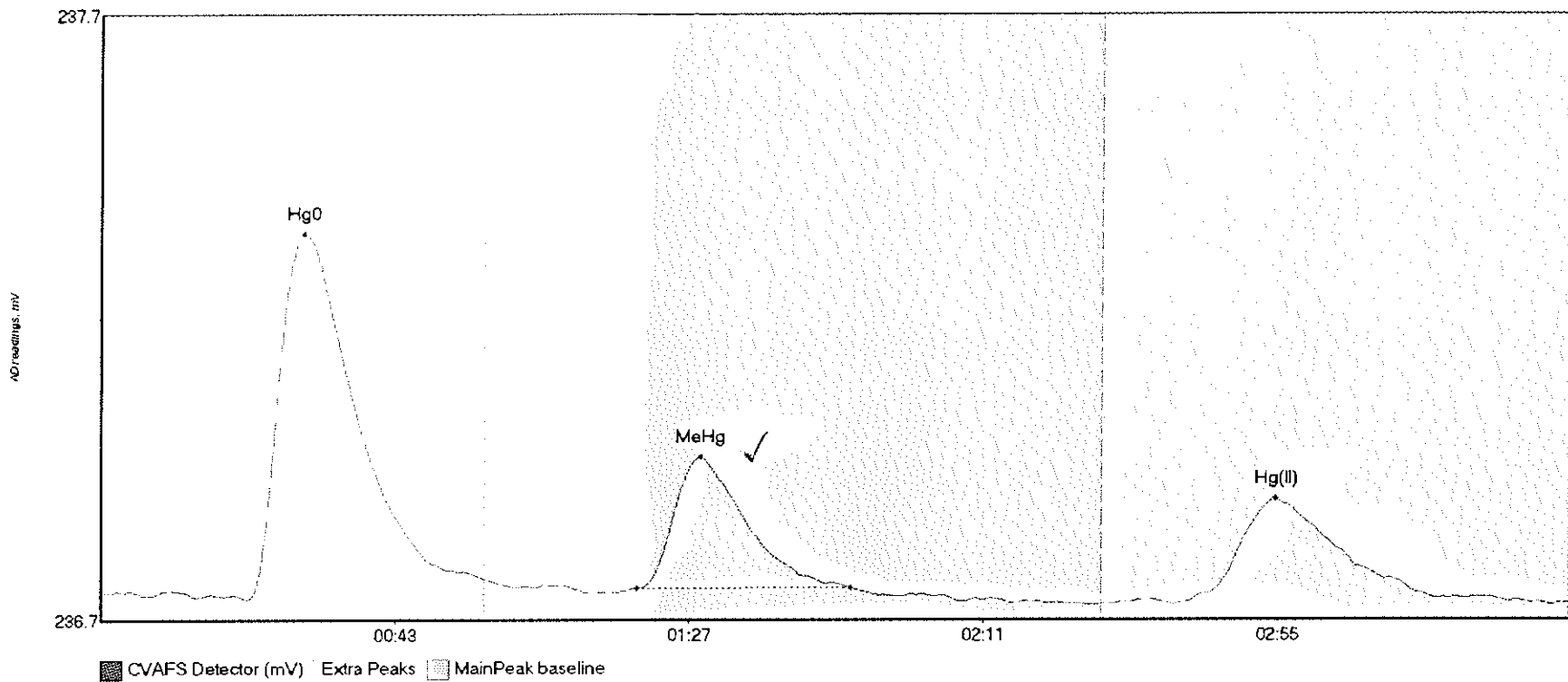
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	20.486	19.0	55.8	236.94	236.96	31.5	0.149	OK	236.9390	0.00	0.00	
WS Hg(II)	3.238	165.7	190.8	236.95	236.95	178.0	0.020	OK	236.9390	0.00	0.00	116

#3: SEQ-IBL1



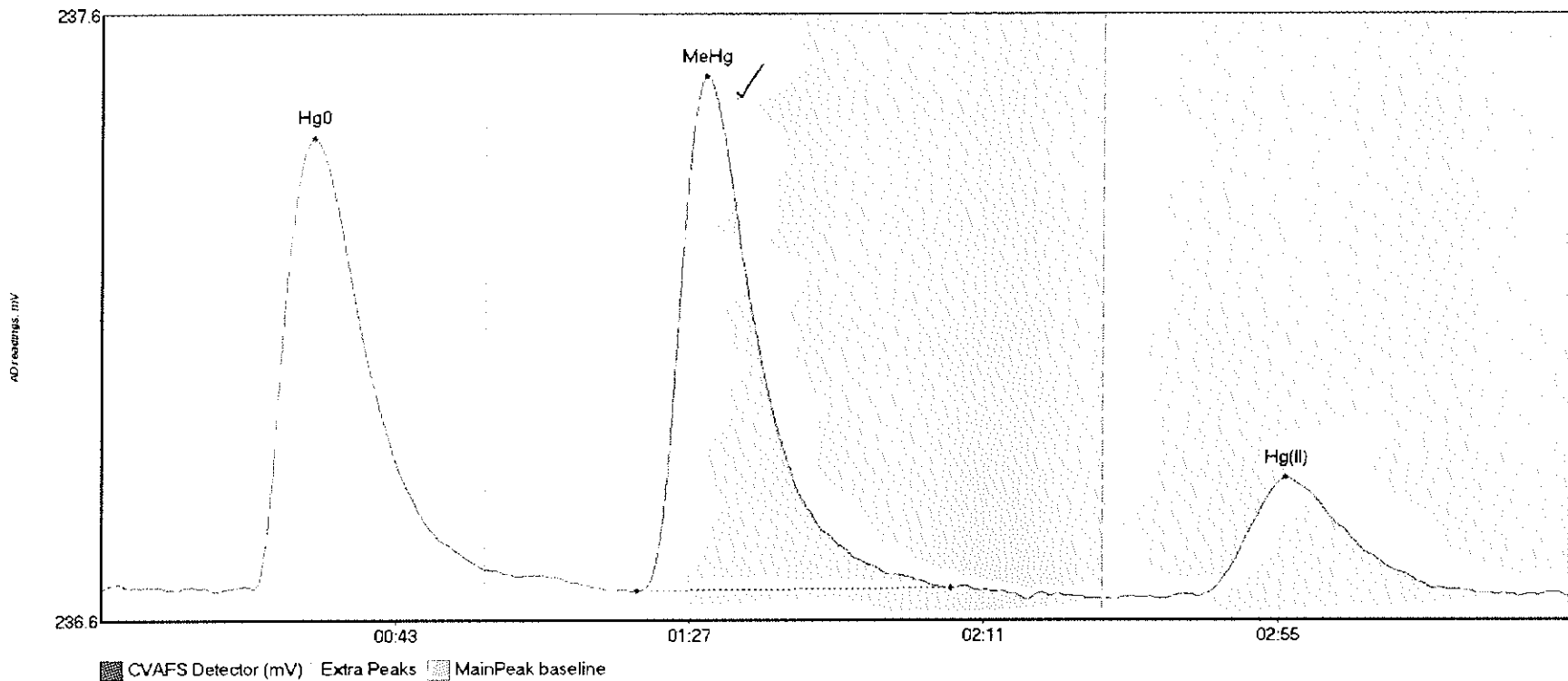
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-IBL1 Hg0	55.853	22.5	57.5	236.87	236.89	30.5	0.443	CT	236.8658	0.00	-0.01	
SEQ-IBL1 MeHg	0.652	83.1	92.2	236.87	236.87	88.0	0.017	OK	236.8658	0.00	-0.01	
SEQ-IBL1 Hg(II)	27.878	163.8	204.8	236.85	236.86	175.2	0.163	OK	236.8658	0.00	-0.01	

#4: SEQ-CAL1



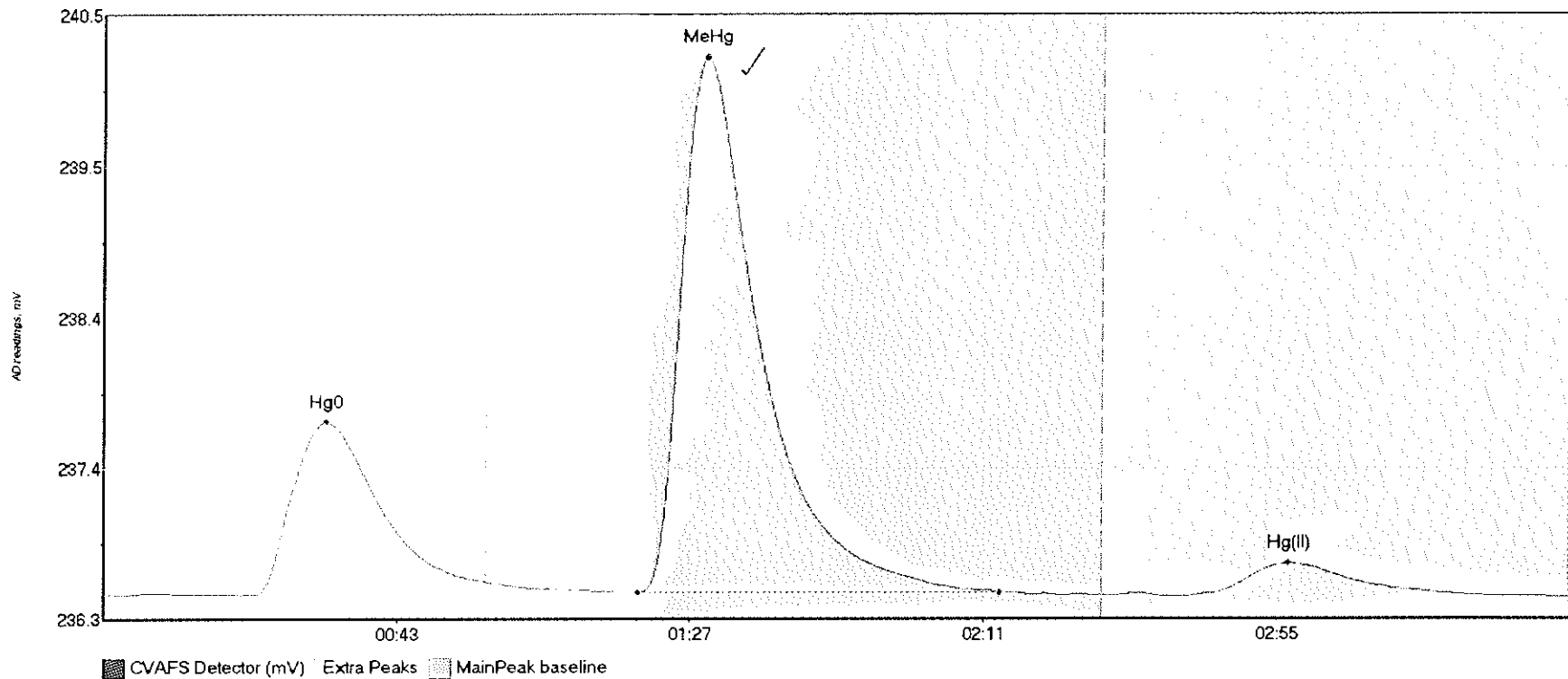
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL1 Hg0	77.587	21.8	57.5	236.75	236.78	30.3	0.604	CT	236.7585	0.00	-0.02	
SEQ-CAL1 MeHg	26.646	80.3	112.1	236.76	236.77	89.8	0.218	OK	236.7585	0.00	-0.02	
SEQ-CAL1 Hg(II)	28.648	162.7	210.8	236.74	236.74	175.7	0.169	OK	236.7585	0.00	-0.02	

#5: SEQ-CAL2



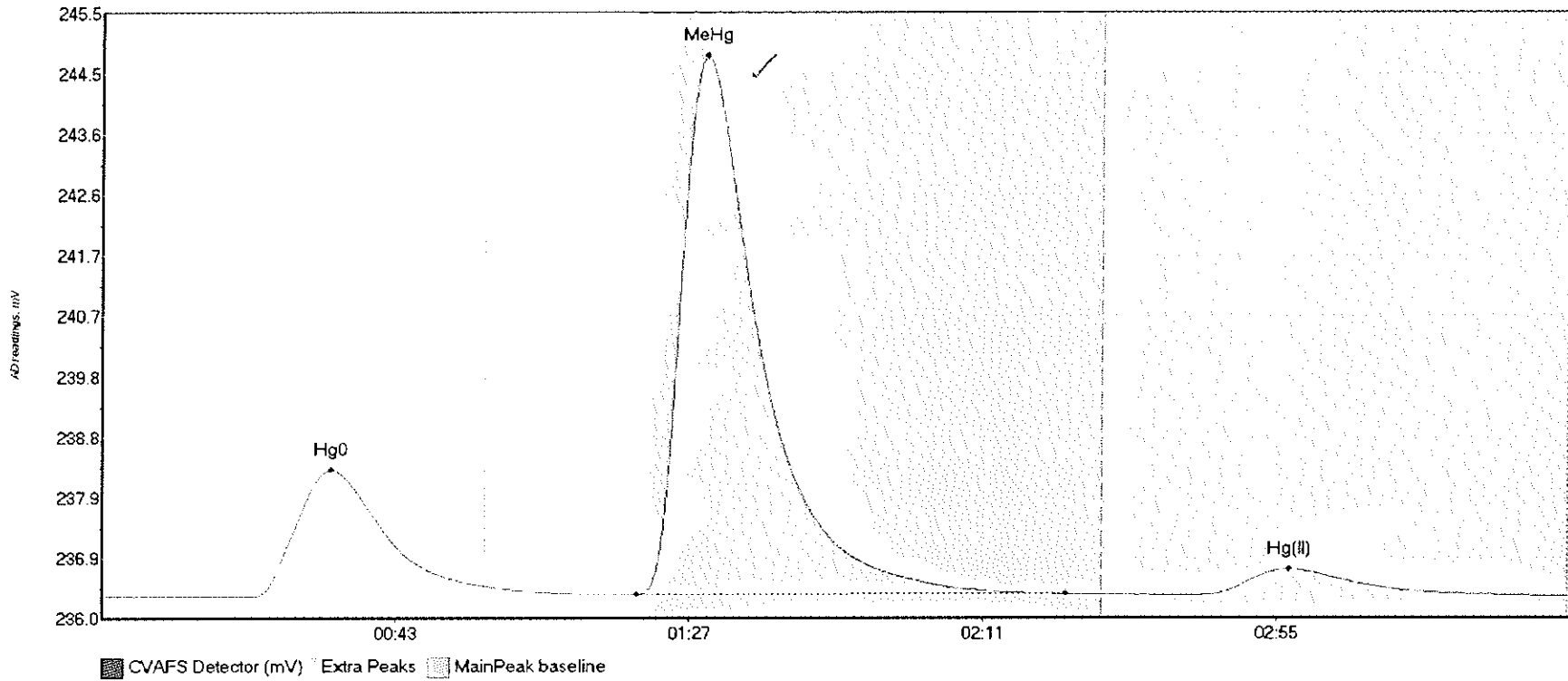
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL2 Hg0	101.485	23.0	57.5	236.62	236.66	31.9	0.744	CT	236.6266	0.00	-0.01	
SEQ-CAL2 MeHg	115.110	80.1	127.2	236.62	236.63	90.5	0.850	OK	236.6266	0.00	-0.01	
SEQ-CAL2 Hg(II)	33.577	164.2	212.1	236.61	236.61	177.2	0.196	OK	236.6266	0.00	-0.01	

#6: SEQ-CAL3



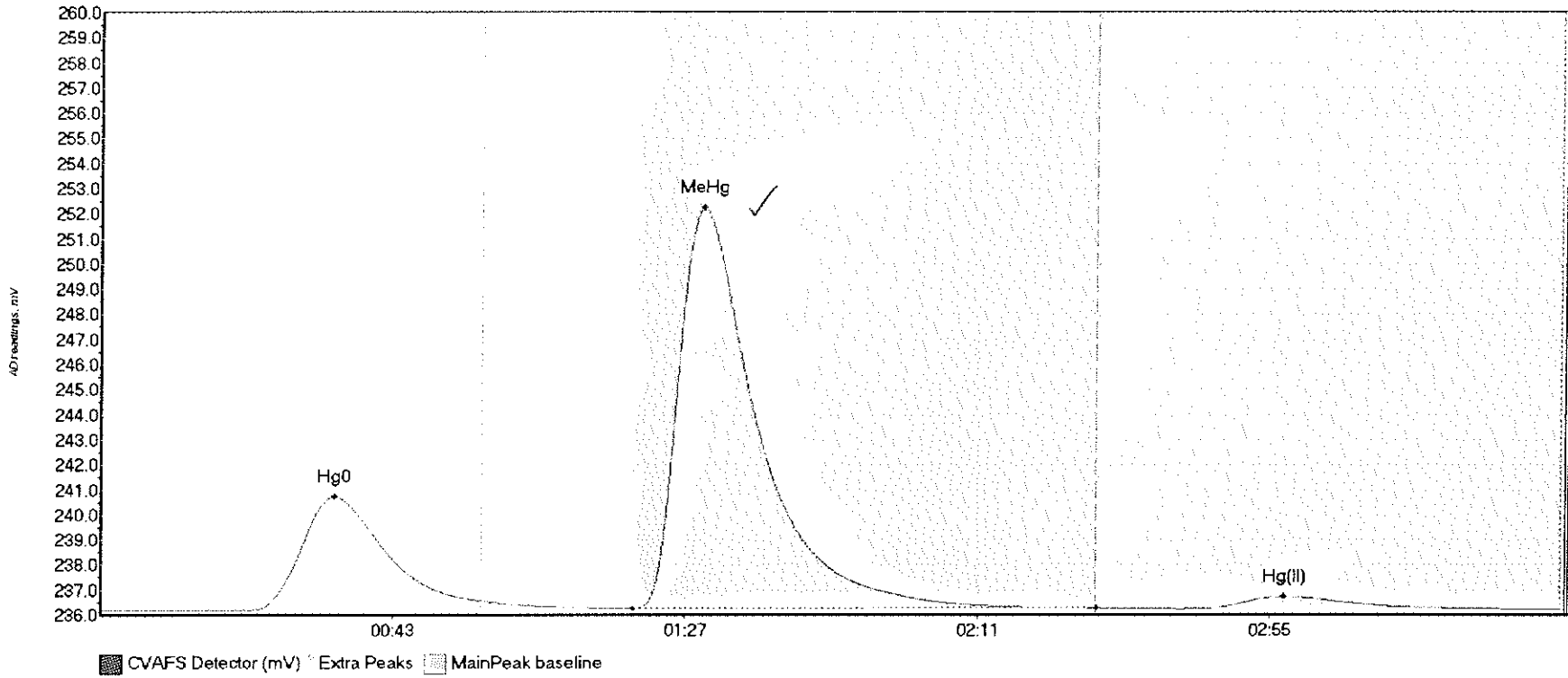
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
SEQ-CAL3 Hg0	169.763	22.4	57.5	236.47	236.56	33.4	1.207	CF	236.4709	0.00	-0.02	
SEQ-CAL3 MeHg	511.611	80.1	134.5	236.48	236.49	90.5	3.720	OK	236.4709	0.00	-0.02	
SEQ-CAL3 Hg(II)	39.356	162.0	204.7	236.46	236.47	177.8	0.228	OK	236.4709	0.00	-0.02	

#7: SEQ-CAL4



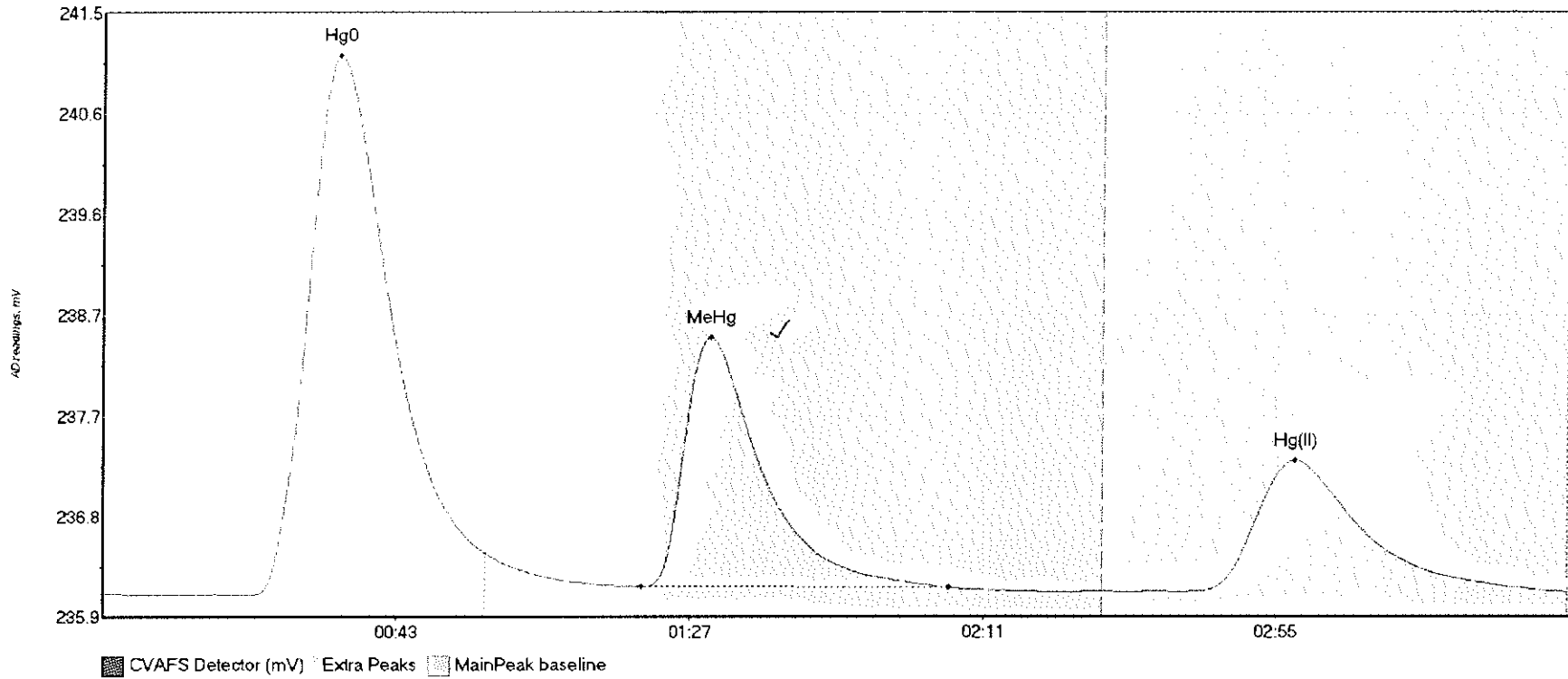
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL4 Hg0	274.805	22.1	57.5	236.32	236.47	34.4	1.986	CP	236.3194	0.00	0.00	
SEQ-CAL4 MeHg	1161.303	80.1	144.4	236.35	236.35	90.6	8.432	OK	236.3194	0.00	0.00	
SEQ-CAL4 Hg(II)	67.064	163.3	205.3	236.34	236.35	177.9	0.407	OK	236.3194	0.00	0.00	

#8: SEQ-CAL5



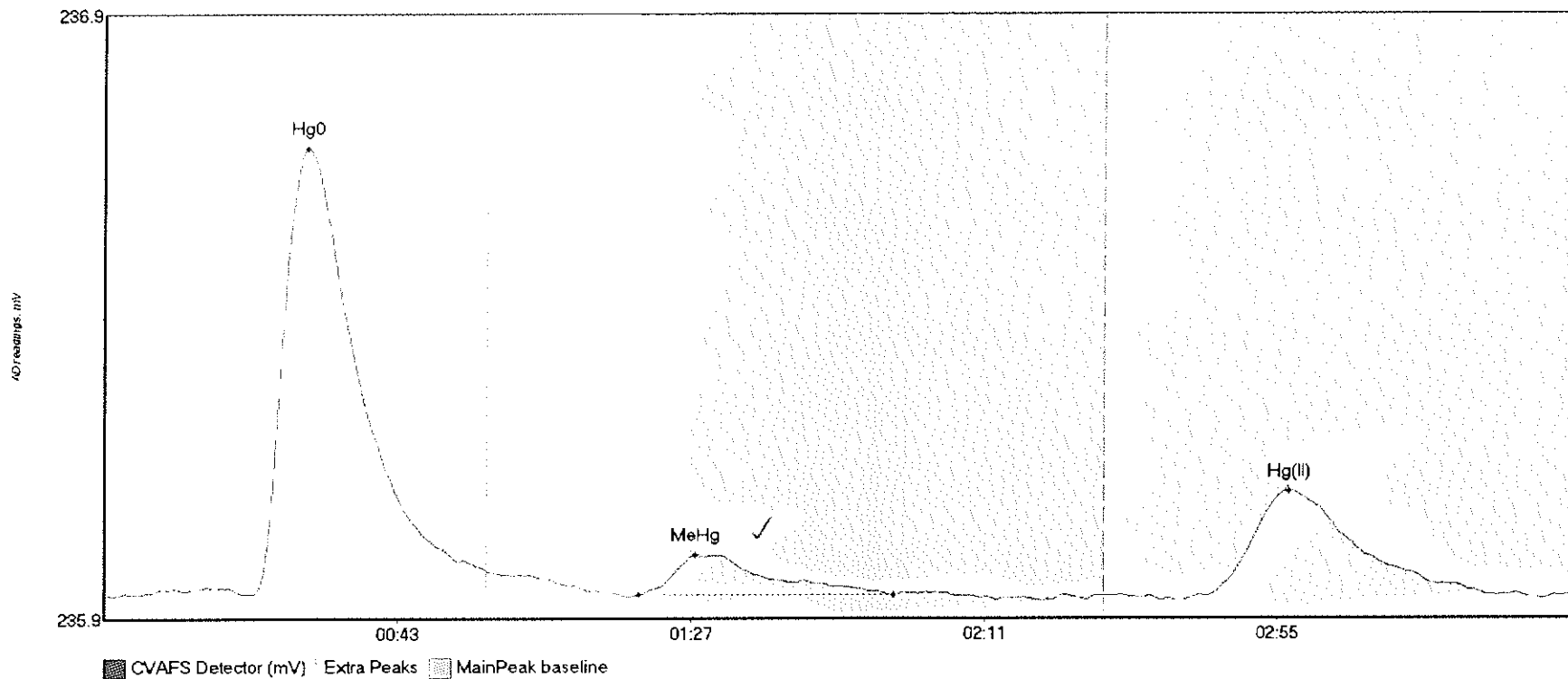
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL5 Hg0	605.574	21.5	57.5	236.19	236.54	35.3	4.522	CT	236.1992	0.00	0.03	
SEQ-CAL5 MeHg	2203.874	80.1	150.0	236.27	236.28	90.8	15.940	CT	236.1992	0.00	0.03	
SEQ-CAL5 Hg(II)	81.022	163.3	206.1	236.25	236.27	178.2	0.492	OK	236.1992	0.00	0.03	

#9: SEQ-ICV1



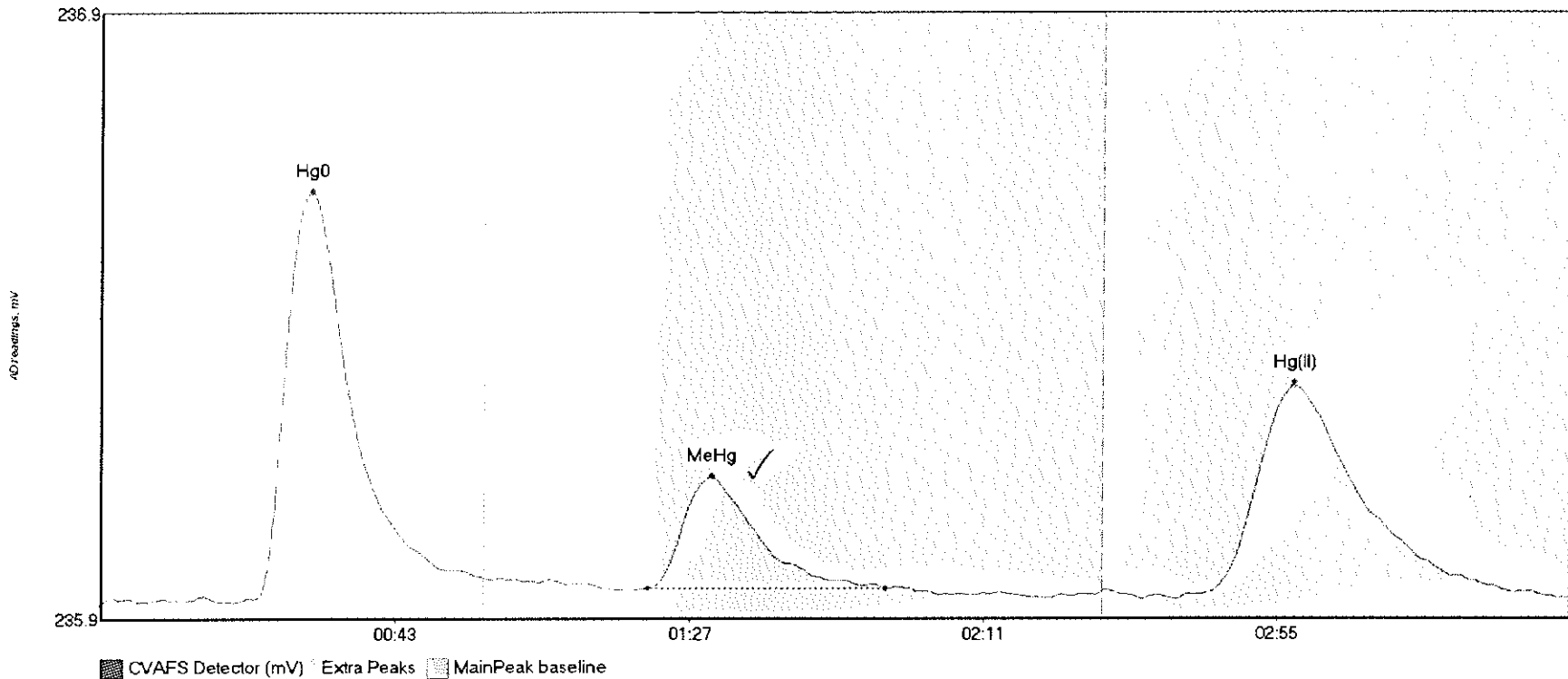
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICV1 Hg0	667.966	21.4	57.5	236.08	236.46	35.5	5.012	CT	236.0843	0.00	0.03	
SEQ-ICV1 MeHg	313.174	80.8	126.9	236.15	236.14	91.1	2.327	OK	236.0843	0.00	0.03	
SEQ-ICV1 Hg(II)	220.489	163.6	219.6	236.11	236.11	178.9	1.220	OK	236.0843	0.00	0.03	

#10: SEQ-ICB1



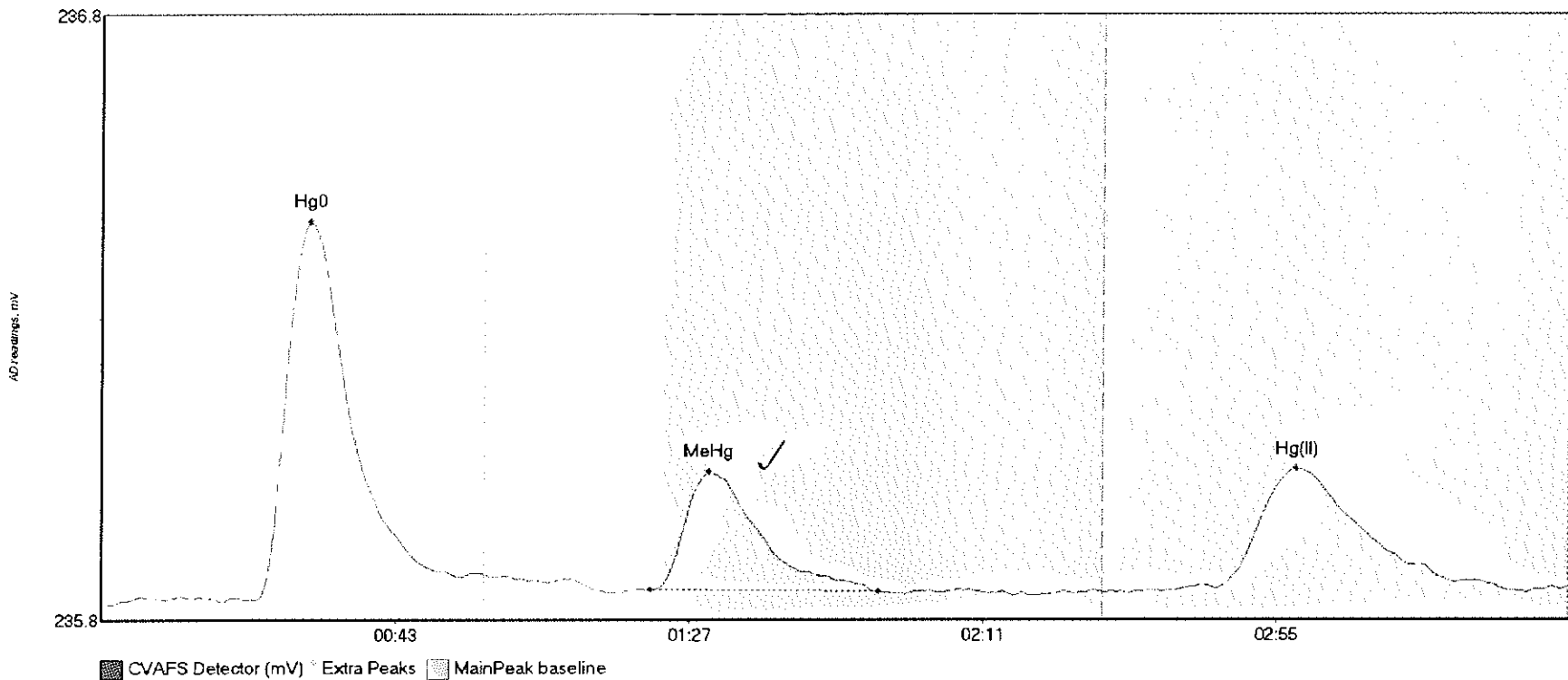
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICB1 Hg0	92.681	21.8	57.5	235.98	236.02	30.4	0.738	CT	235.9782	0.00	0.00	
SEQ-ICB1 MeHg	11.166	80.1	118.5	235.98	235.98	88.7	0.067	OK	235.9782	0.00	0.00	
SEQ-ICB1 Hg(II)	30.229	165.5	207.6	235.98	235.98	177.7	0.176	OK	235.9782	0.00	0.00	

#11: F609212-BLK4



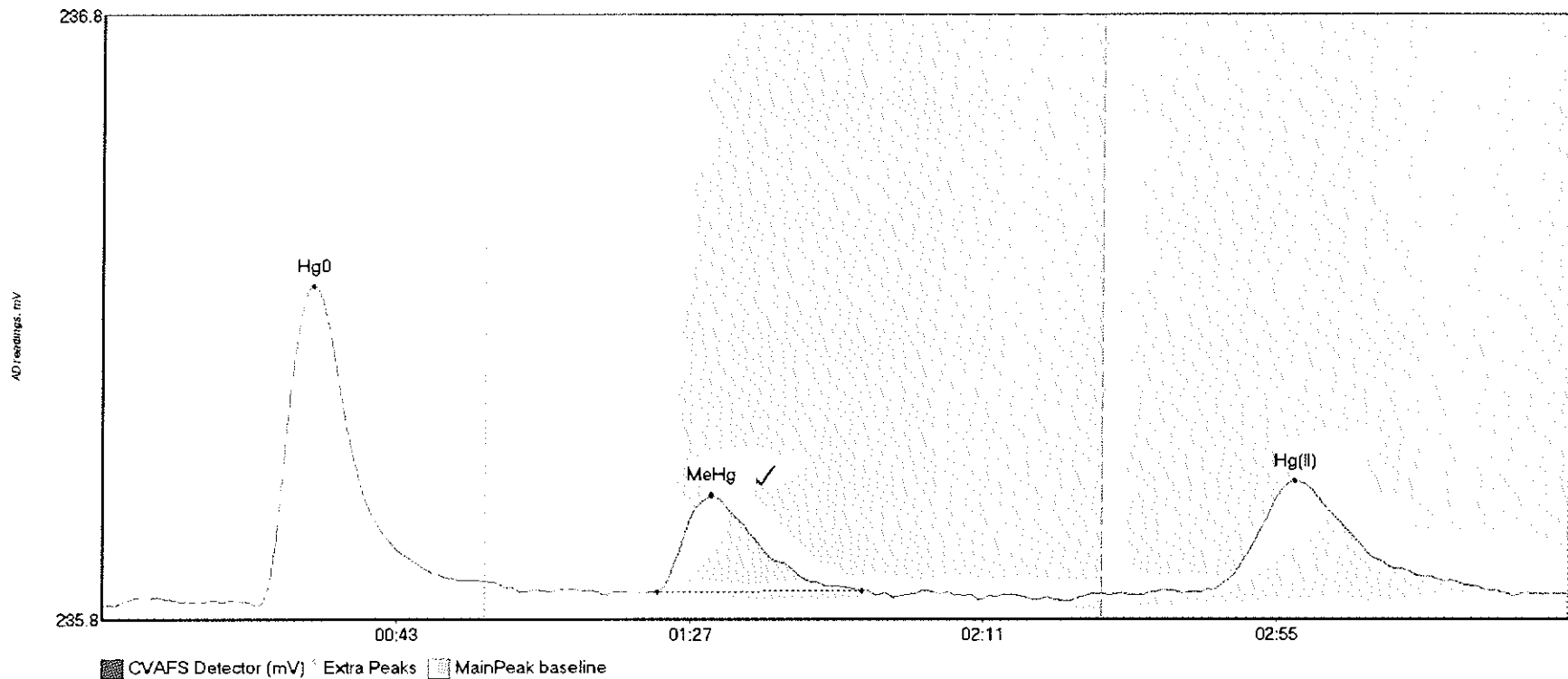
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-BLK4 Hg	74.893	22.7	57.5	235.89	235.93	31.4	0.673	CT	235.8885	0.00	0.01	
F609212-BLK4 Me	23.720	81.8	117.5	235.91	235.91	91.3	0.186	OK	235.8885	0.00	0.01	
F609212-BLK4 Hg	58.924	164.0	211.6	235.90	235.90	178.6	0.344	OK	235.8885	0.00	0.01	

#12: F609212-BLK5



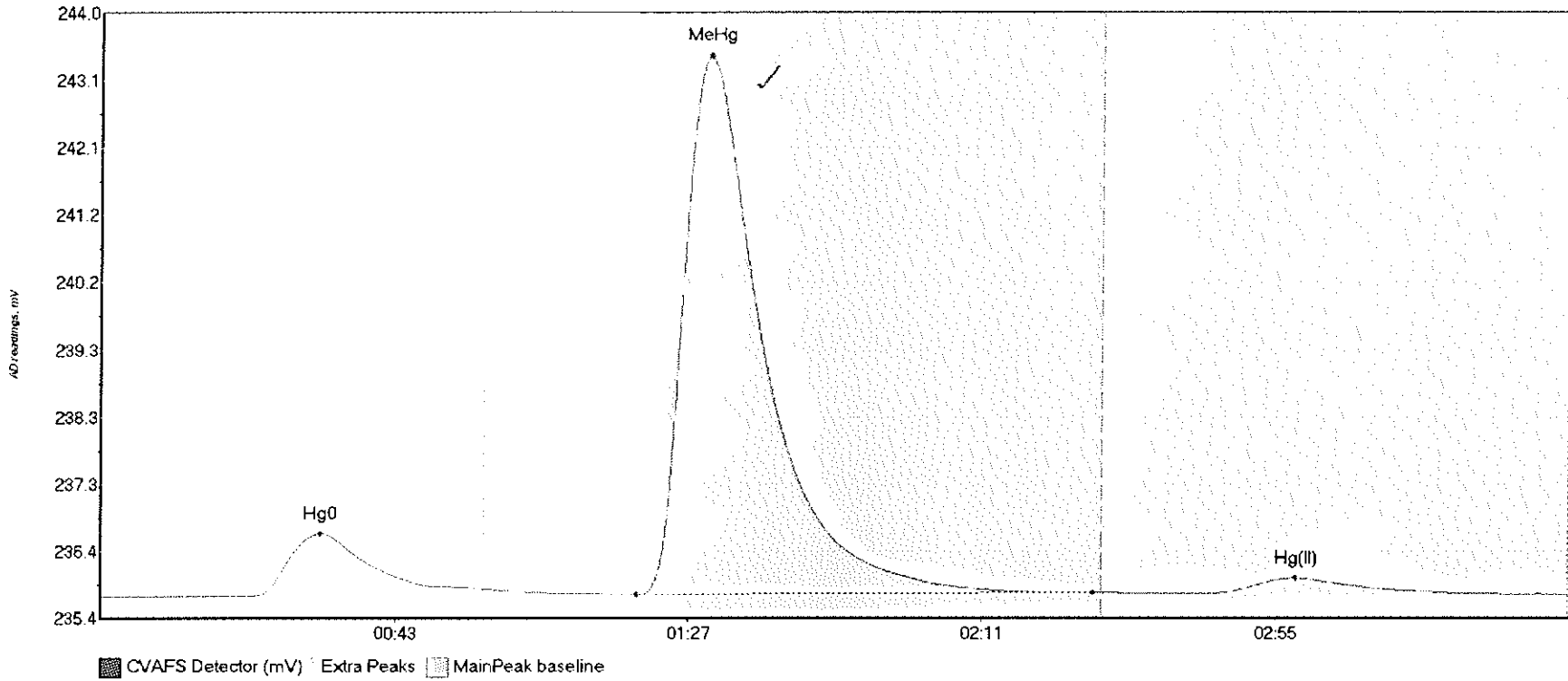
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-BLK5 Hg	65.945	18.1	54.0	235.83	235.87	31.2	0.627	OK	235.8286	0.00	0.03	
F609212-BLK5 Me	25.379	82.2	116.4	235.85	235.85	90.9	0.196	OK	235.8286	0.00	0.03	
F609212-BLK5 Hg	35.608	161.1	211.1	235.85	235.85	179.0	0.201	OK	235.8286	0.00	0.03	

#13: F609212-BLK6



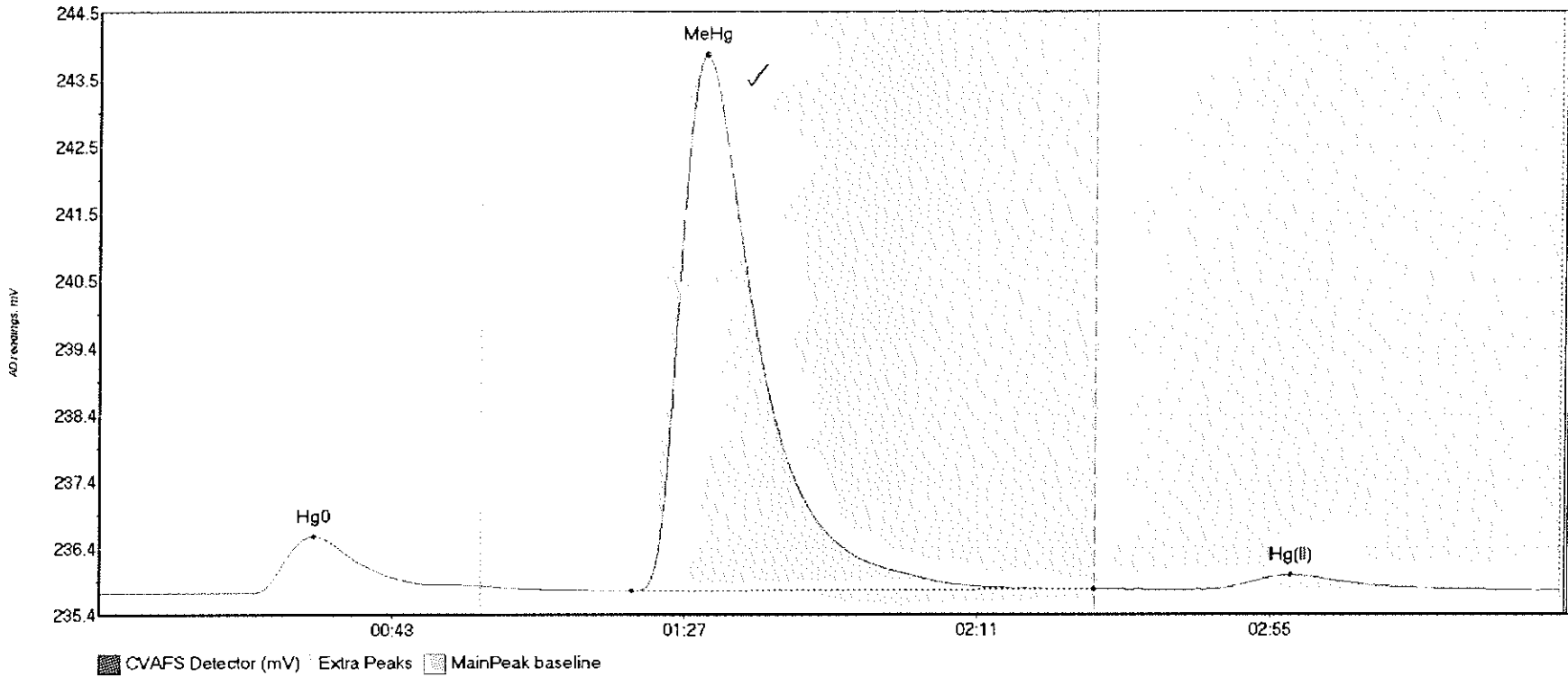
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-BLK6 Hg	57.371	23.1	57.5	235.79	235.83	31.4	0.531	CT	235.7870	0.00	0.02	
F609212-BLK6 Me	19.786	83.1	113.9	235.81	235.81	91.2	0.158	OK	235.7870	0.00	0.02	
F609212-BLK6 Hg	32.032	164.5	211.6	235.81	235.80	178.7	0.185	OK	235.7870	0.00	0.02	

#14: F609212-BS2



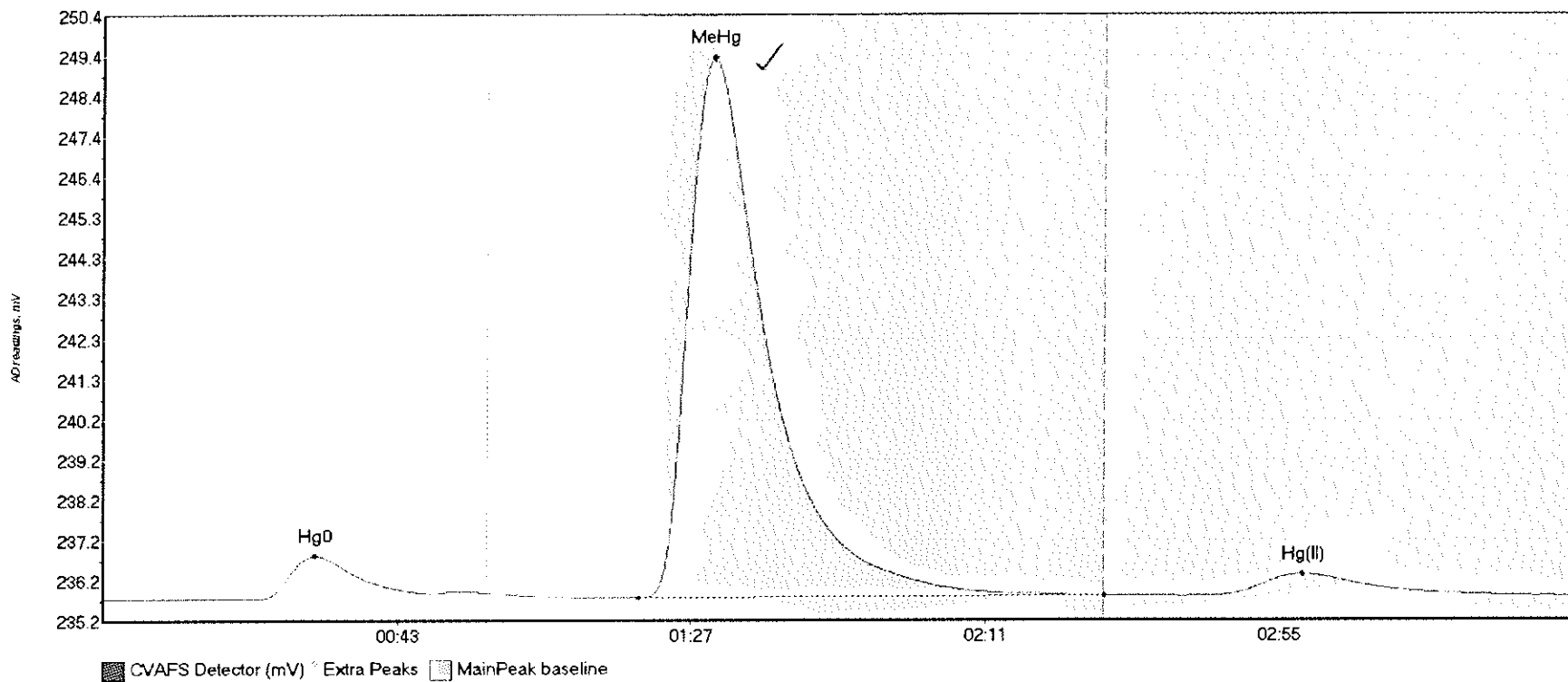
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-BS2 Hg0	111.540	21.1	57.5	235.75	235.85	32.9	0.889	CT	235.7465	0.00	0.04	
F609212-BS2 MeH	1056.060	80.3	148.6	235.77	235.80	91.1	7.650	OK	235.7465	0.00	0.04	
F609212-BS2 Hg(	34.642	166.2	202.9	235.79	235.79	179.1	0.217	OK	235.7465	0.00	0.04	

#15: F609212-BSD2



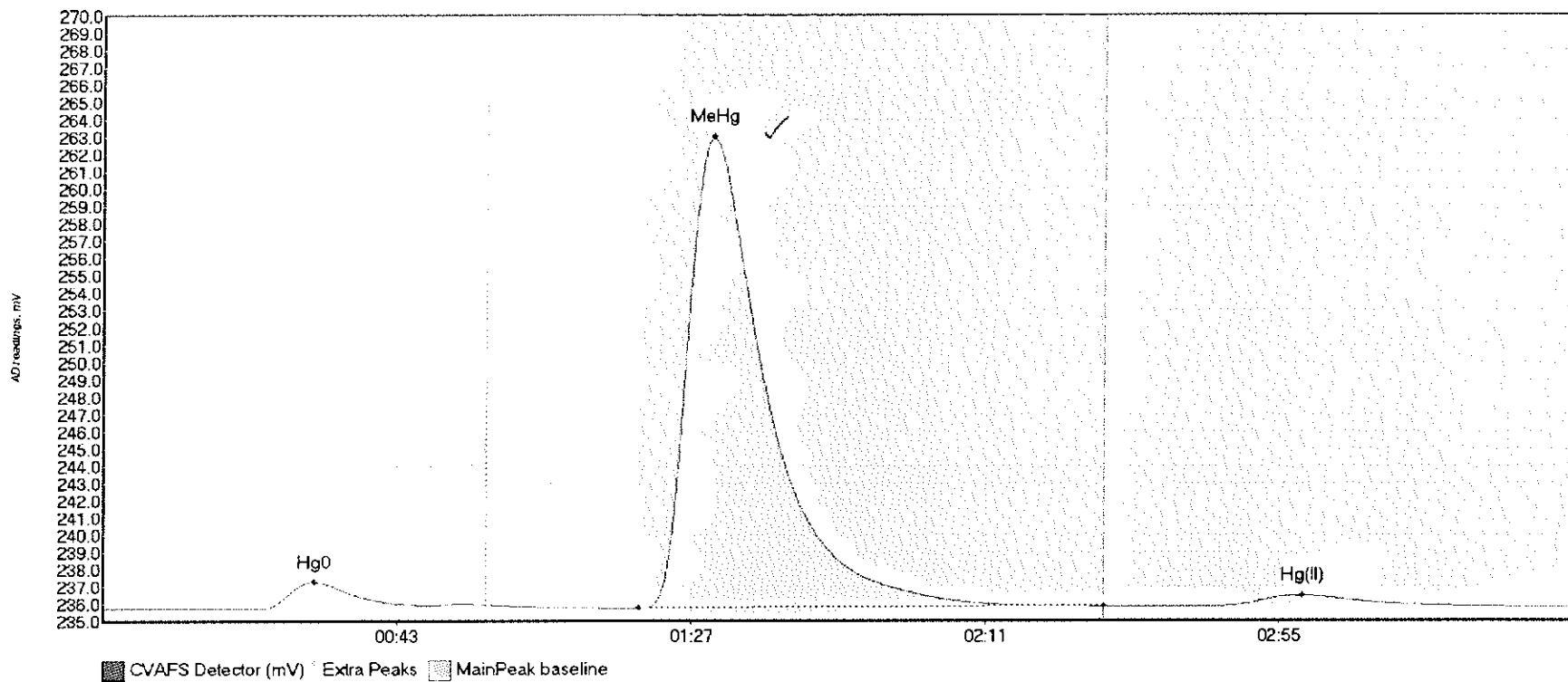
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-BSD2 Hg	103.640	22.5	57.5	235.72	235.83	32.3	0.860	CF	235.7153	0.00	0.05	
F609212-BSD2 Me	1116.616	80.1	149.7	235.74	235.77	91.1	8.129	OK	235.7153	0.00	0.05	
F609212-BSD2 Hg	33.959	166.1	206.6	235.77	235.77	179.2	0.213	OK	235.7153	0.00	0.05	

#16: F609212-DUP2



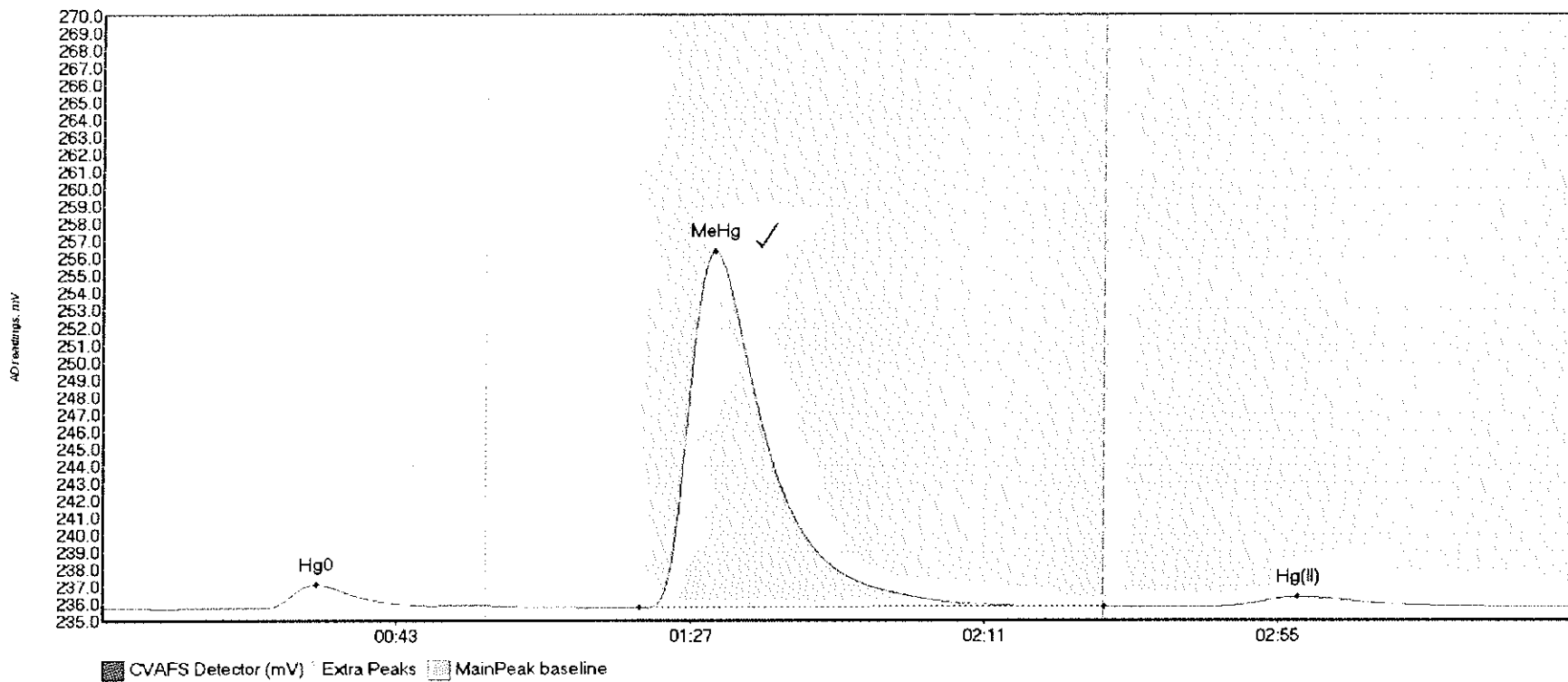
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-DUP2 Hg	111.067	20.5	49.3	235.70	235.84	31.8	1.091	OK	235.7150	0.00	0.05	
F609212-DUP2 Me	1871.296	80.1	150.0	235.73	235.78	91.4	13.606	CT	235.7150	0.00	0.05	
F609212-DUP2 Hg	95.479	165.5	214.4	235.78	235.77	179.6	0.535	OK	235.7150	0.00	0.05	

#17: F609212-MS3



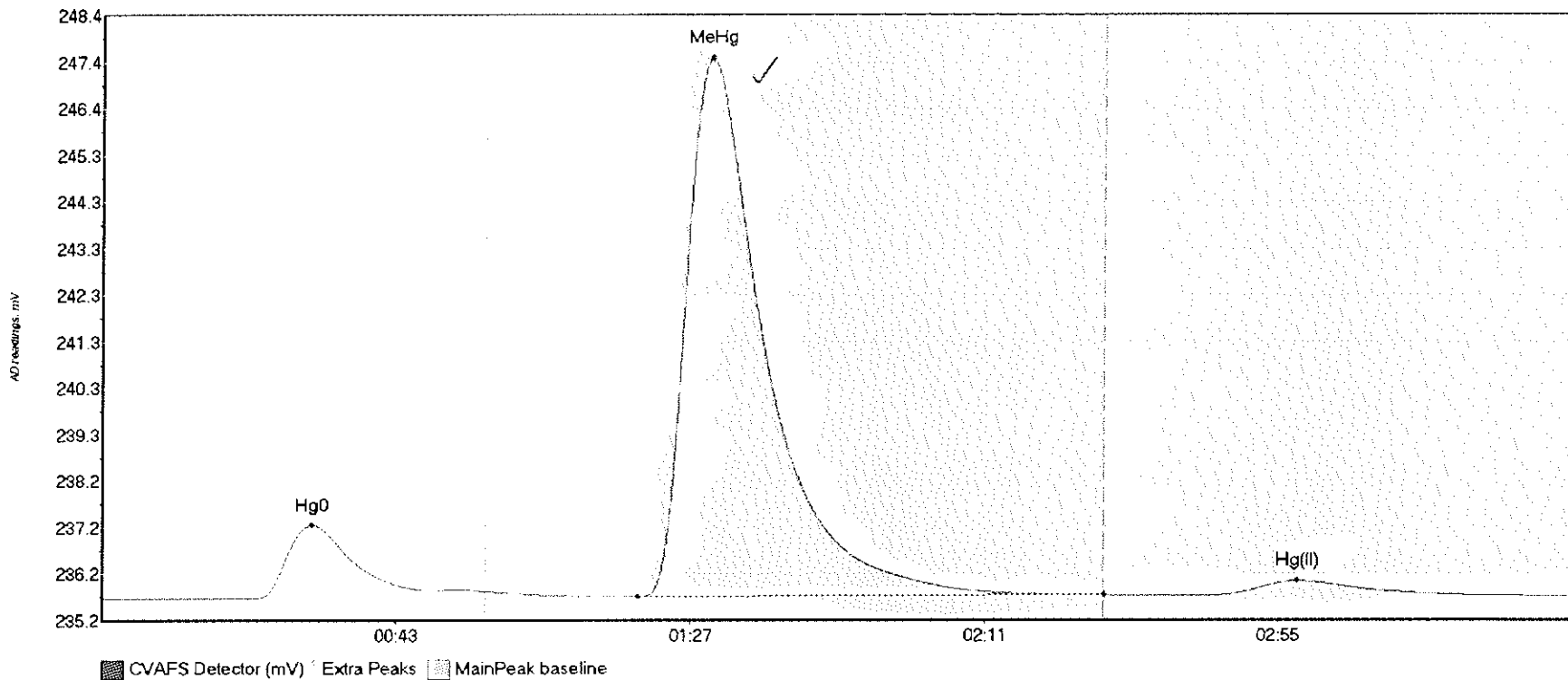
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-MS3 Hg0	151.449	14.9	40.6	235.70	235.88	31.7	1.553	OK	235.7005	0.00	0.08	
F609212-MS3 MeH	3739.853	80.1	149.9	235.74	235.85	91.3	27.218	OK	235.7005	0.00	0.08	
F609212-MS3 Hg(	109.990	164.5	209.7	235.82	235.80	179.4	0.631	OK	235.7005	0.00	0.08	

#18: F609212-MSD3



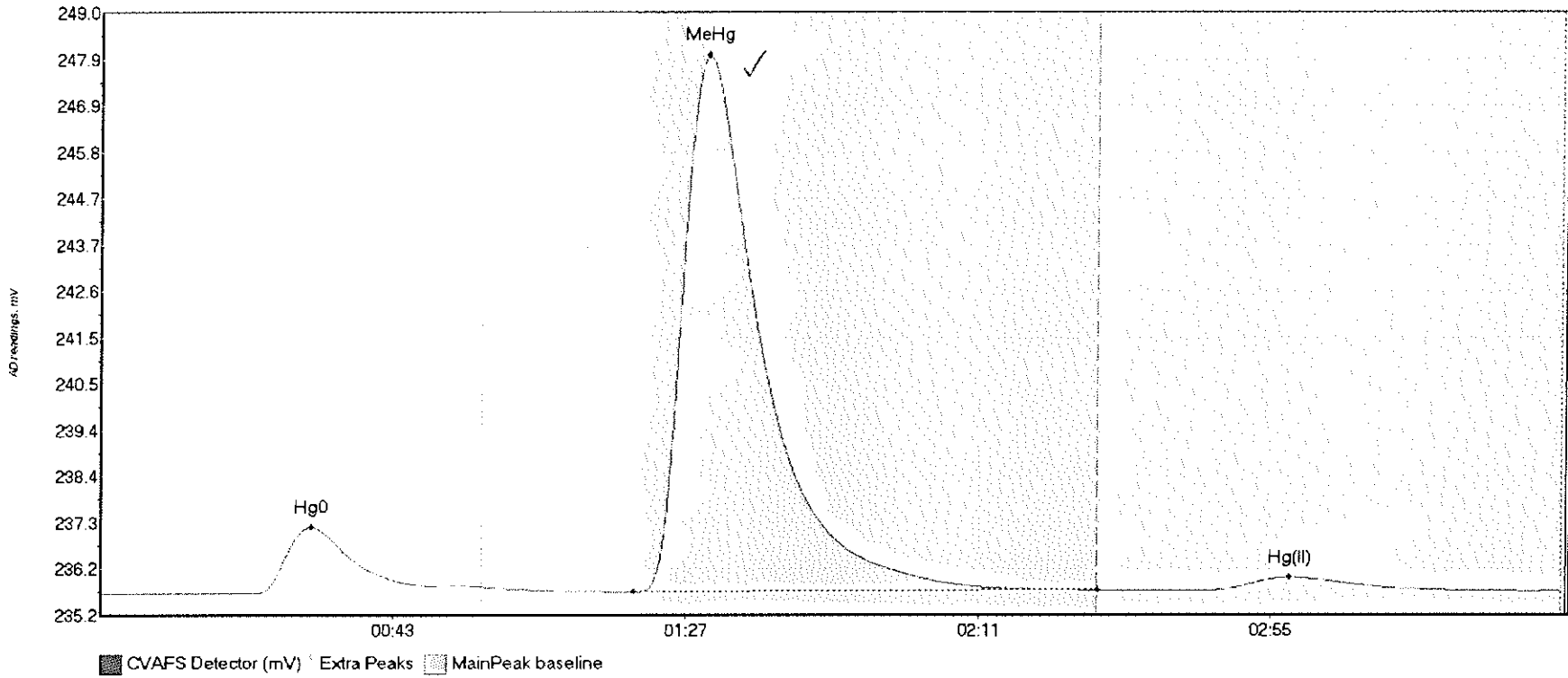
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-MSD3 Hg	136.259	19.3	49.5	235.70	235.85	32.1	1.377	OK	235.6948	0.00	0.07	
F609212-MSD3 Me	2834.159	80.3	150.0	235.73	235.80	91.6	20.621	CT	235.6948	0.00	0.07	
F609212-MSD3 Hg	104.857	164.3	214.9	235.78	235.76	179.1	0.572	OK	235.6948	0.00	0.07	

#19: F609212-MS4



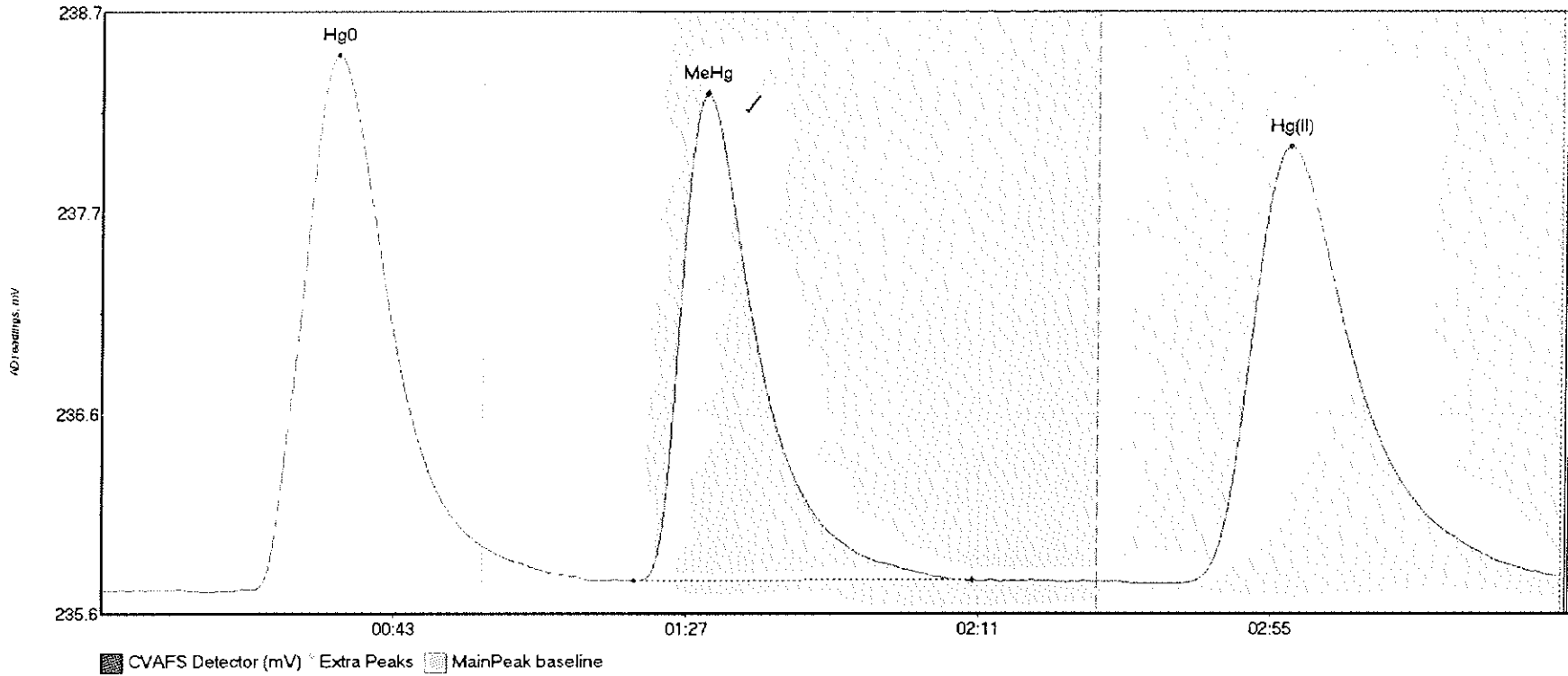
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-MS4 Hg0	175.159	20.2	57.5	235.68	235.83	31.4	1.609	CT	235.6802	0.00	0.06	
F609212-MS4 MeH	1607.213	80.1	150.0	235.73	235.76	91.1	11.722	CT	235.6802	0.00	0.06	
F609212-MS4 Hg(	48.908	165.9	204.0	235.75	235.76	178.9	0.310	OK	235.6802	0.00	0.06	

#20: F609212-MSD4



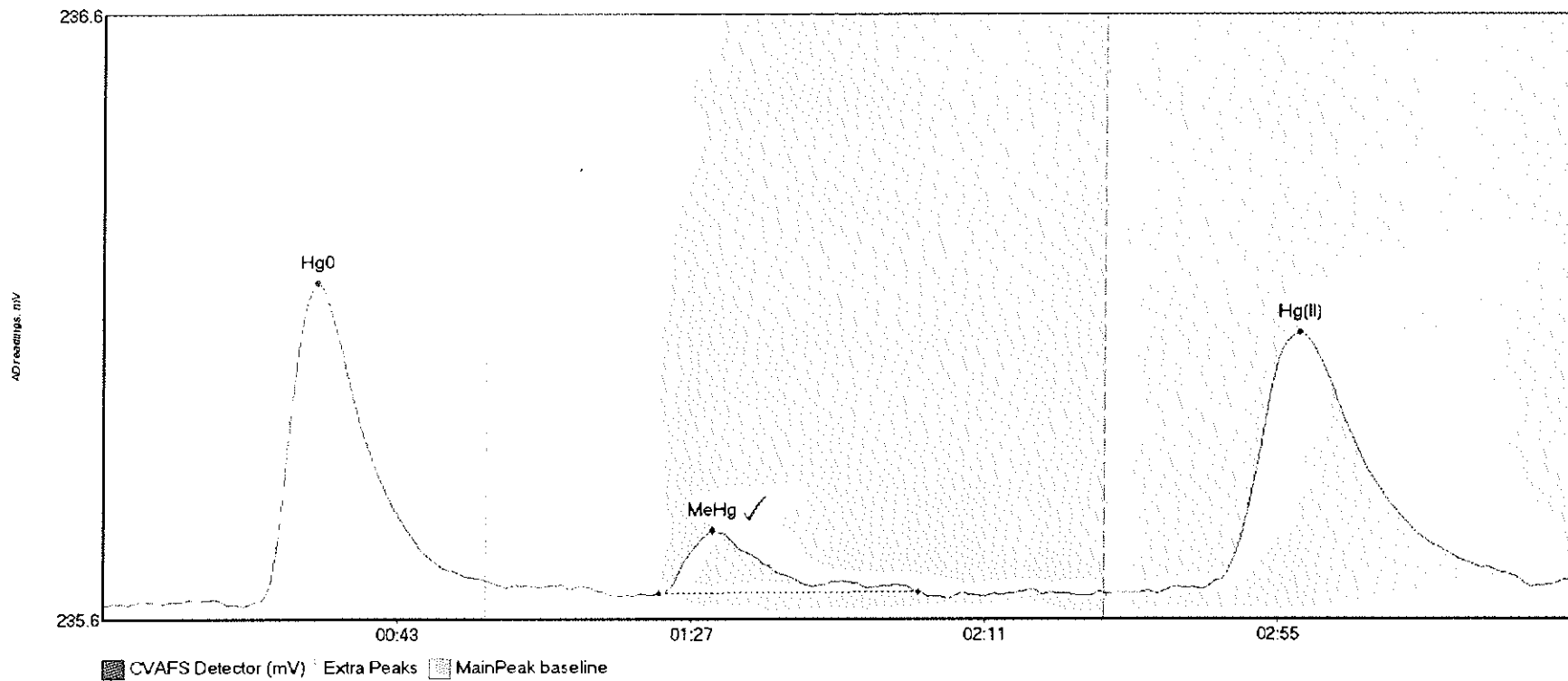
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-MSD4 Hg	165.493	22.1	57.5	235.67	235.83	31.7	1.514	CT	235.6756	0.00	0.06	
F609212-MSD4 Me	1694.713	80.2	150.0	235.71	235.75	91.3	12.280	CT	235.6756	0.00	0.06	
F609212-MSD4 Hg	48.143	166.6	205.0	235.75	235.75	178.9	0.296	OK	235.6756	0.00	0.06	

#21: SEQ-CCV1



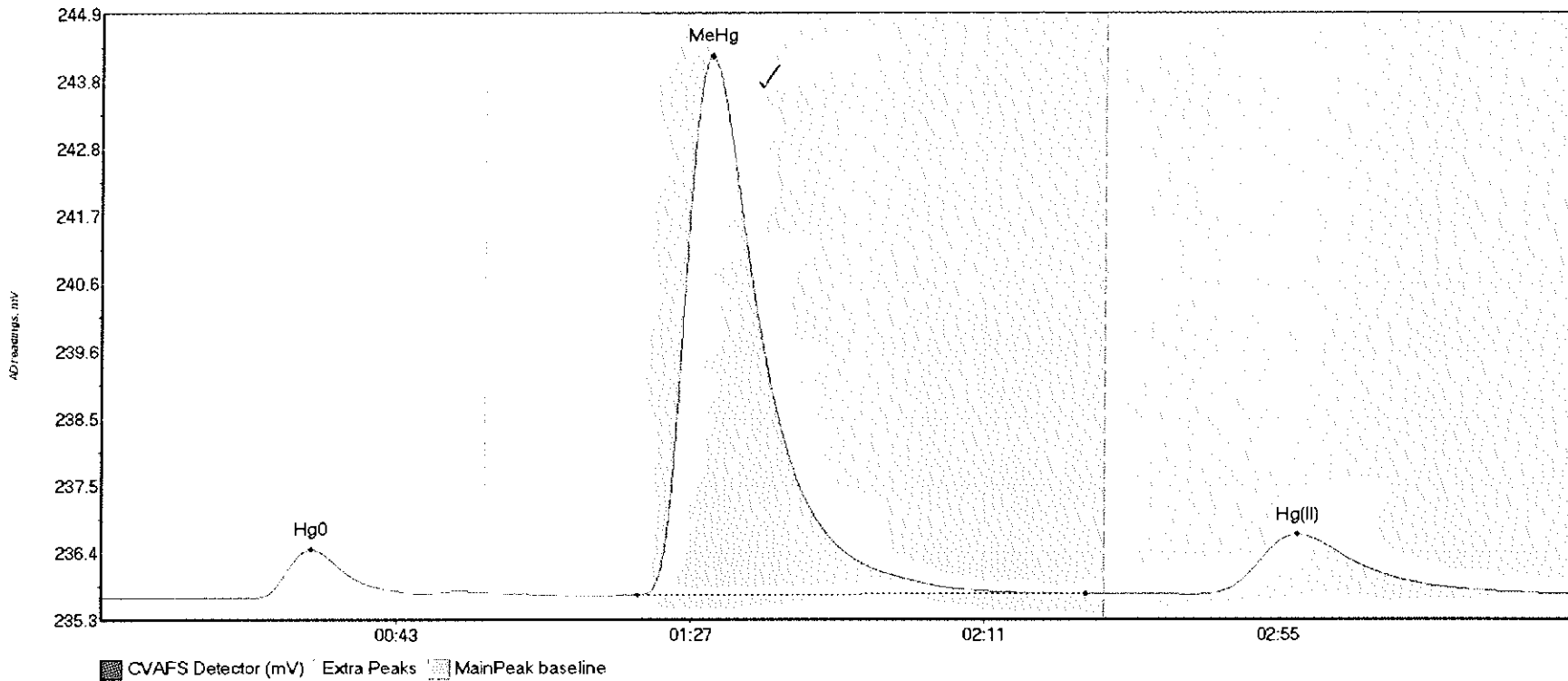
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0	385.705	19.5	57.5	235.68	235.91	35.6	2.805	CT	235.6776	0.00	0.08	
SEQ-CCV1 MeHg	347.419	80.1	131.2	235.73	235.73	91.0	2.551	OK	235.6776	0.00	0.08	
SEQ-CCV1 Hg(II)	414.529	162.2	219.8	235.72	235.76	178.9	2.288	CT	235.6776	0.00	0.08	

#22: SEQ-CCB1



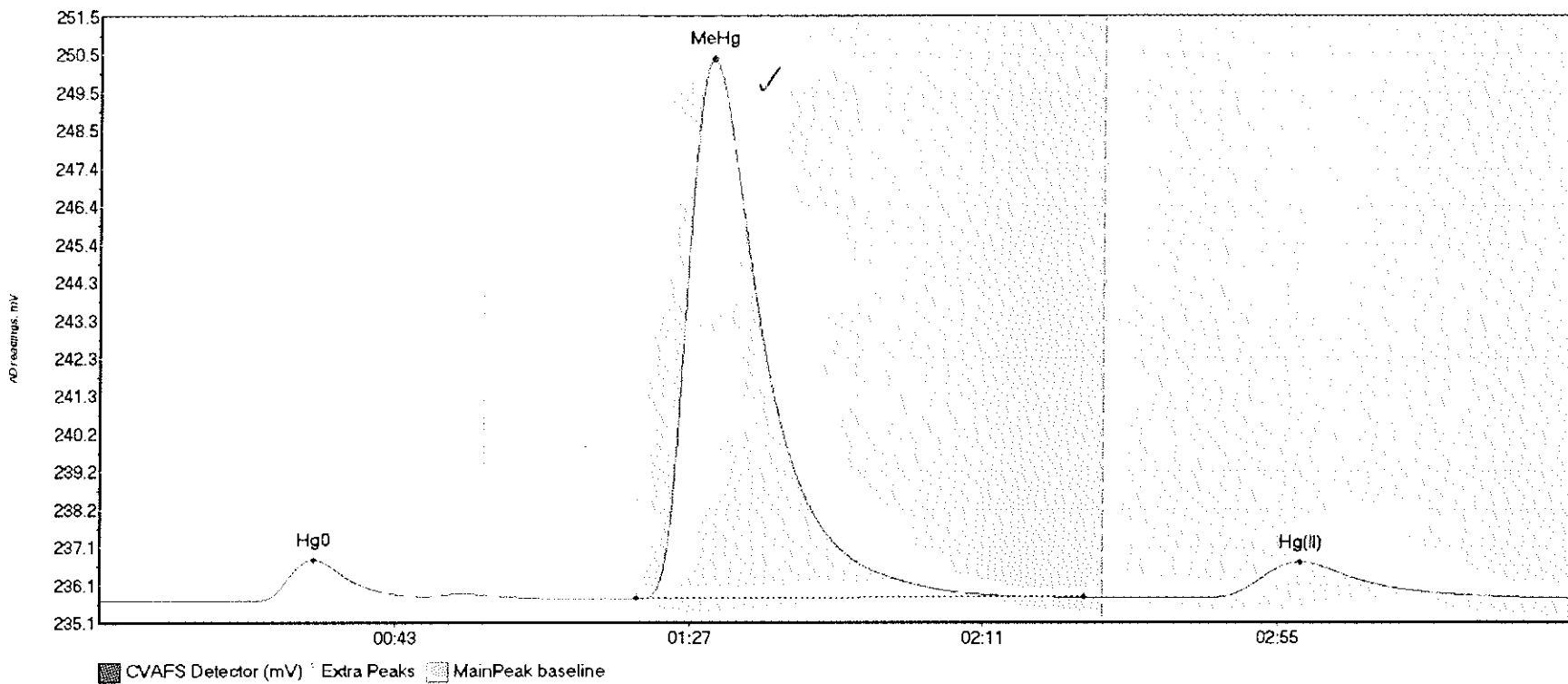
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB1 Hg0	66.582	21.0	57.5	235.66	235.70	32.0	0.534	CP	235.6612	0.00	0.04	
SEQ-CCB1 MeHg	14.274	83.1	122.1	235.68	235.68	91.2	0.104	OK	235.6612	0.00	0.04	
SEQ-CCB1 Hg(II)	79.792	157.8	214.2	235.68	235.69	179.2	0.431	OK	235.6612	0.00	0.04	

#23: 1607903-32RE1



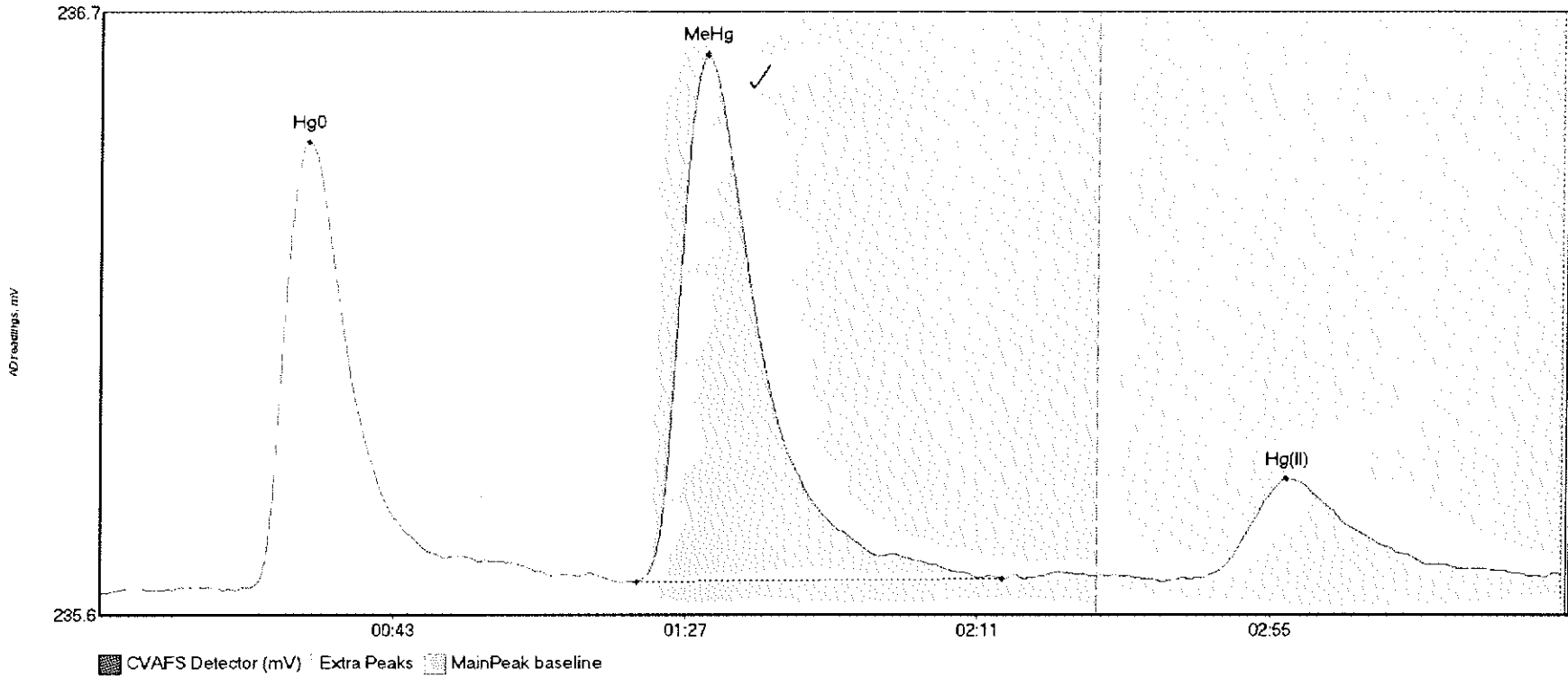
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-32RE1 H	72.060	22.5	48.3	235.67	235.73	31.3	0.762	OK	235.6637	0.00	0.07	
1607903-32RE1 M	1146.248	80.1	147.1	235.71	235.73	91.0	8.513	OK	235.6637	0.00	0.07	
1607903-32RE1 H	166.801	164.0	216.8	235.72	235.73	178.9	0.948	OK	235.6637	0.00	0.07	

#24: 1607903-33RE1



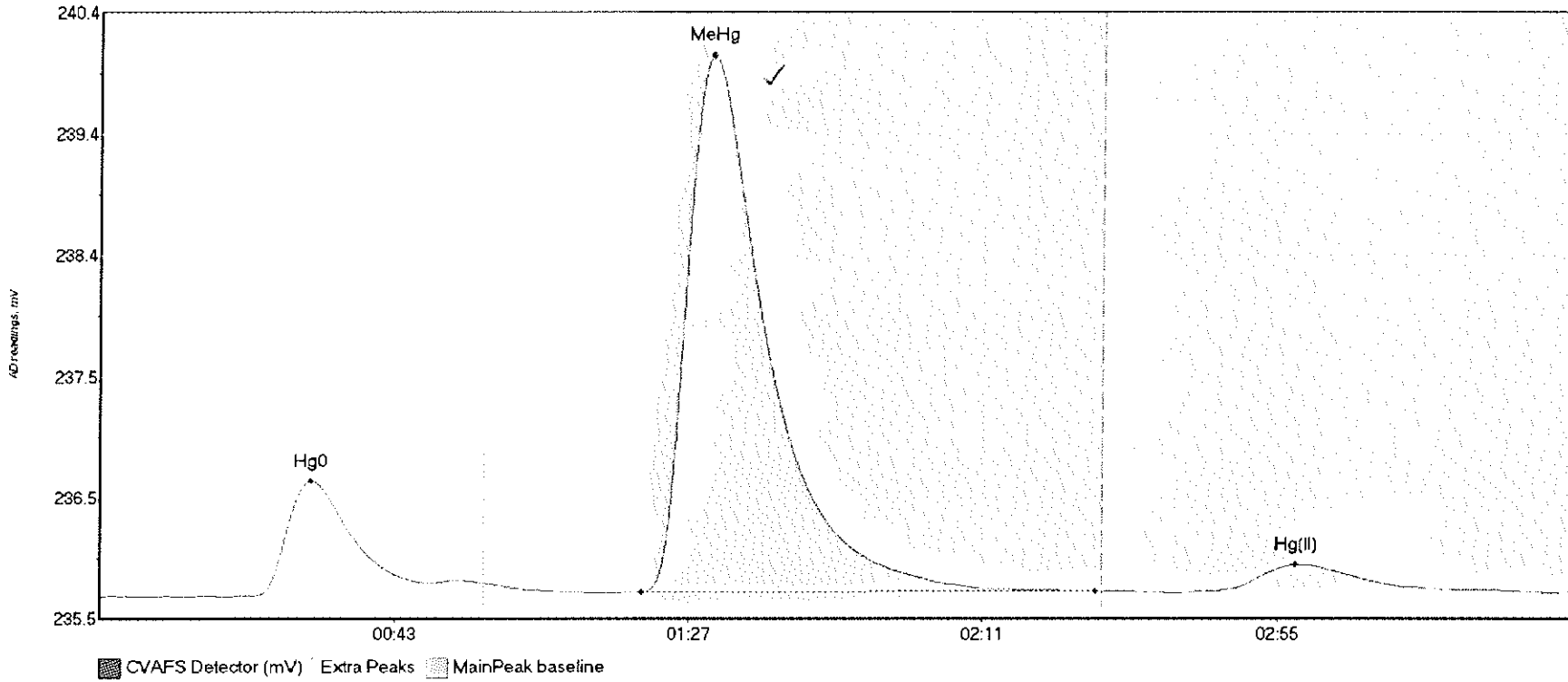
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-33RE1	H 104.724	21.6	48.6	235.68	235.79	31.8	1.105	OK	235.6782	0.00	0.07	
1607903-33RE1	M 1984.159	80.1	147.2	235.73	235.76	91.4	14.635	OK	235.6782	0.00	0.07	
1607903-33RE1	H 173.139	164.9	210.0	235.75	235.75	179.5	0.972	OK	235.6782	0.00	0.07	

#25: 1607903-37RE1



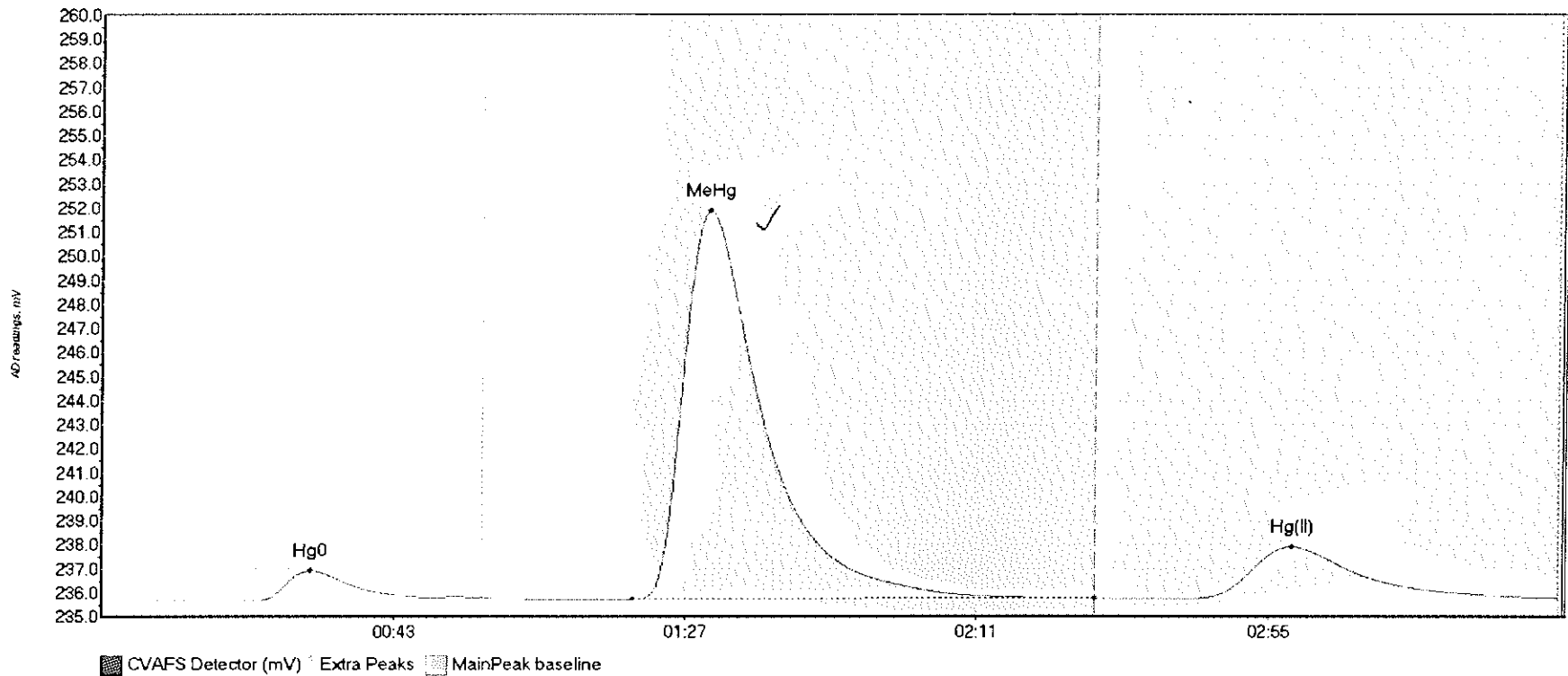
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-37RE1 H	87.920	0.6	57.1	235.68	235.73	31.2	0.823	OK	235.6757	0.00	0.04	
1607903-37RE1 M	134.581	80.7	135.8	235.70	235.70	91.0	0.964	OK	235.6757	0.00	0.04	
1607903-37RE1 H	31.288	165.9	212.4	235.70	235.71	178.4	0.183	OK	235.6757	0.00	0.04	

#26: 1608071-01RE1



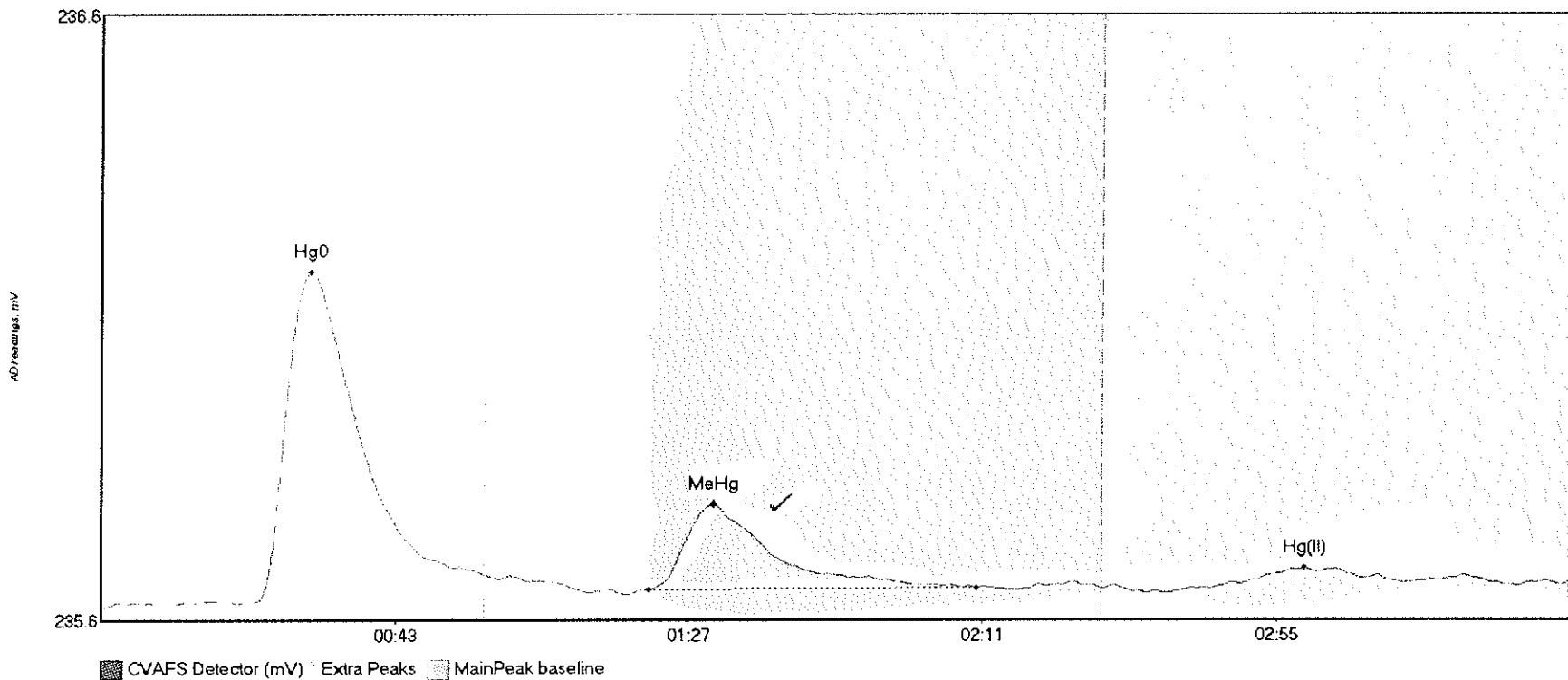
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-01RE1 H	99.285	19.0	57.5	235.67	235.78	31.5	0.942	CF	235.6714	0.00	0.04	
1608071-01RE1 M	605.880	81.0	148.9	235.71	235.71	91.5	4.351	OK	235.6714	0.00	0.04	
1608071-01RE1 H	36.198	165.2	211.4	235.71	235.72	178.8	0.216	OK	235.6714	0.00	0.04	

#27: 1608071-02RE1



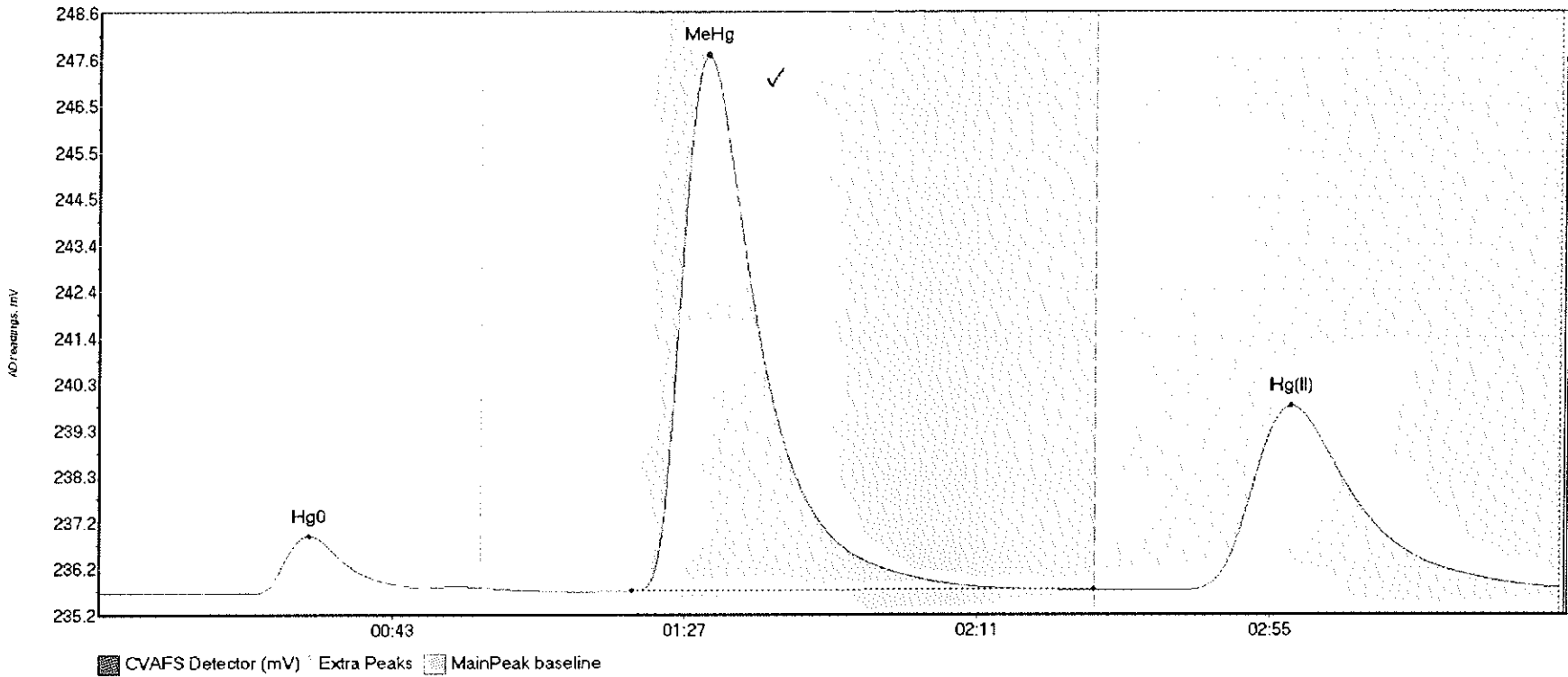
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-02RE1 H	131.332	23.3	57.5	235.67	235.78	31.6	1.232	CT	235.6719	0.00	0.10	
1608071-02RE1 M	2252.457	80.1	149.9	235.73	235.77	91.6	16.140	OK	235.6719	0.00	0.10	
1608071-02RE1 H	390.132	164.4	219.8	235.76	235.77	179.4	2.134	CT	235.6719	0.00	0.10	

#28: WS



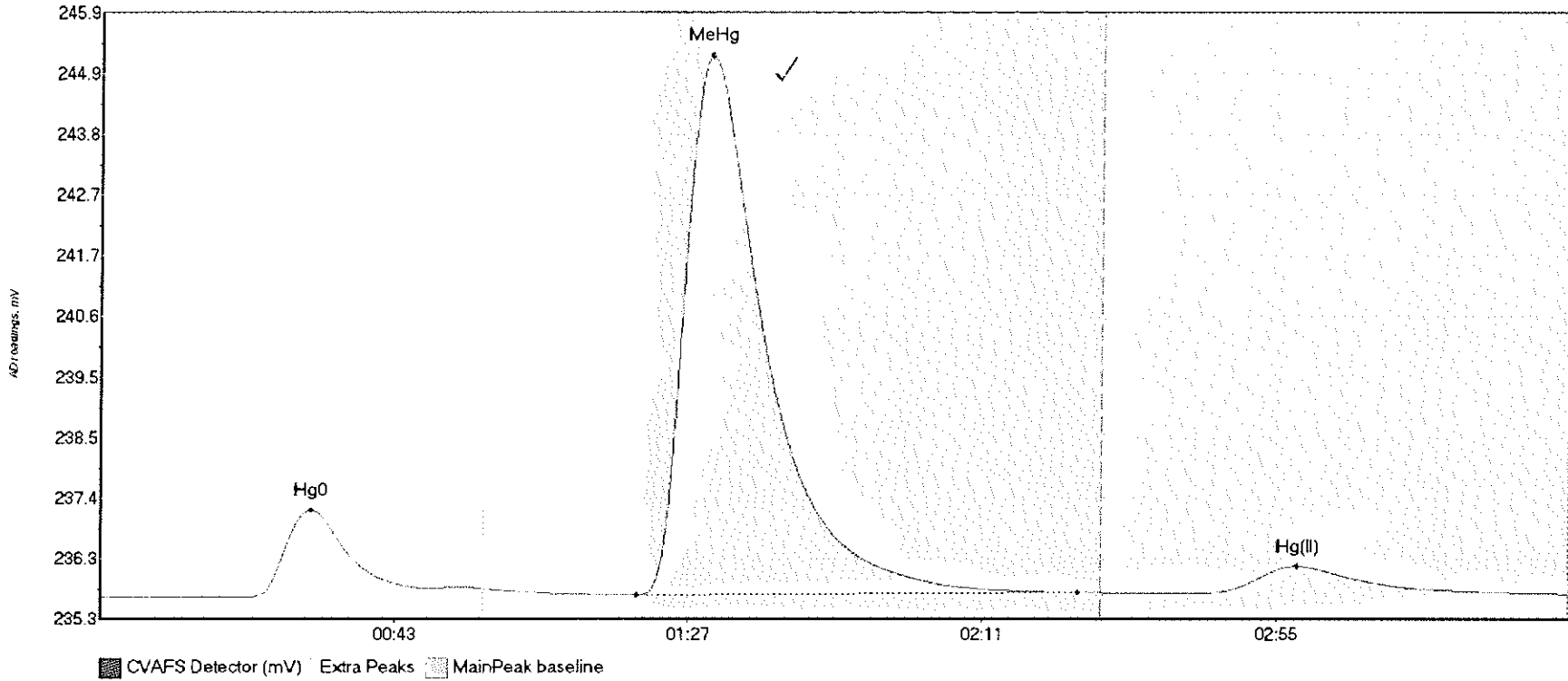
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	65.091	20.6	57.5	235.67	235.72	31.3	0.548	CT	235.6661	0.00	0.04	
WS MeHg	21.007	82.2	131.2	235.69	235.70	91.7	0.142	OK	235.6661	0.00	0.04	
WS Hg(II)	6.510	166.0	210.3	235.70	235.70	180.2	0.033	OK	235.6661	0.00	0.04	

#29: 1608071-05RE1



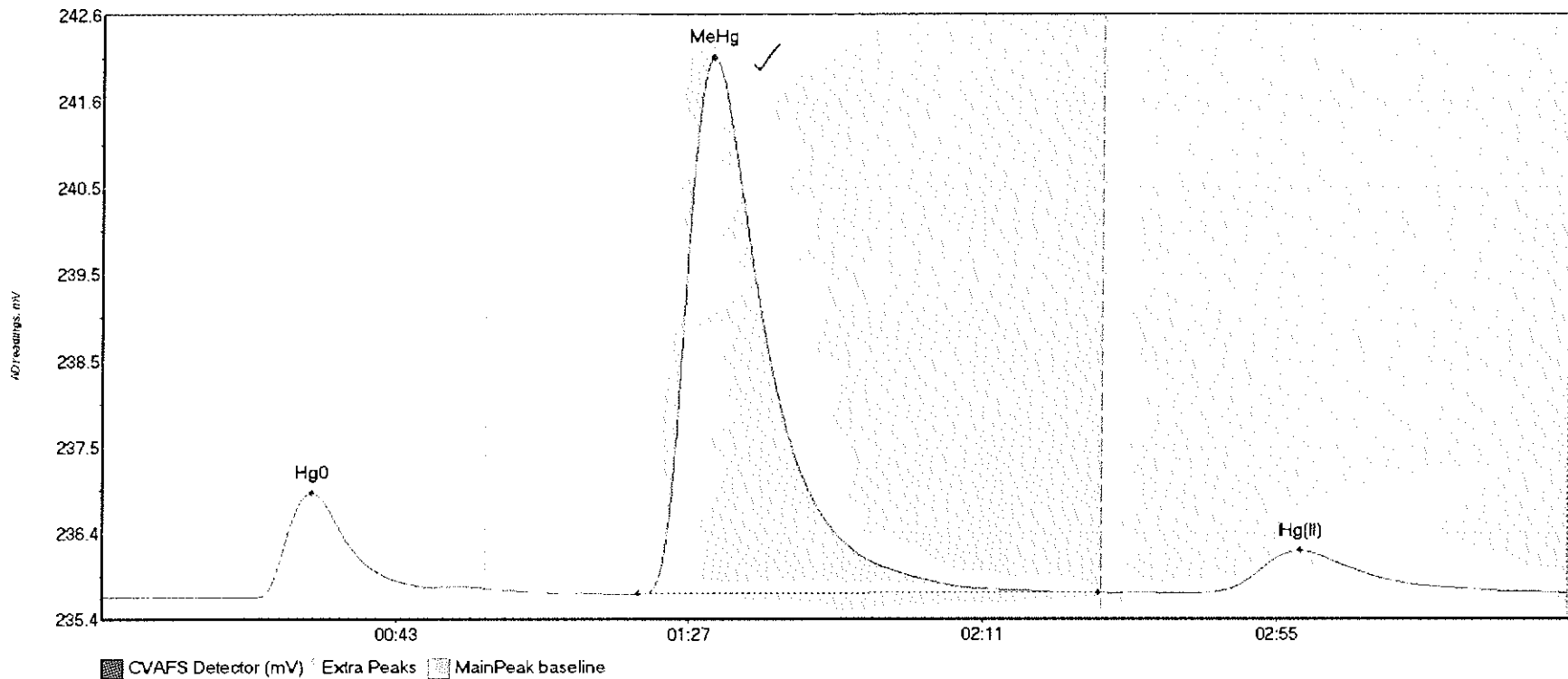
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	StDev	BlShift	Comment
1608071-05RE1 H	123.025	23.0	48.8	235.67	235.78	31.6	1.273	OK	235.6644	0.00	0.13	
1608071-05RE1 M	1644.496	80.1	149.7	235.73	235.74	91.5	11.899	OK	235.6644	0.00	0.13	
1608071-05RE1 H	740.738	163.2	219.8	235.74	235.79	179.2	4.101	CT	235.6644	0.00	0.13	

#30: 1608071-06RE1



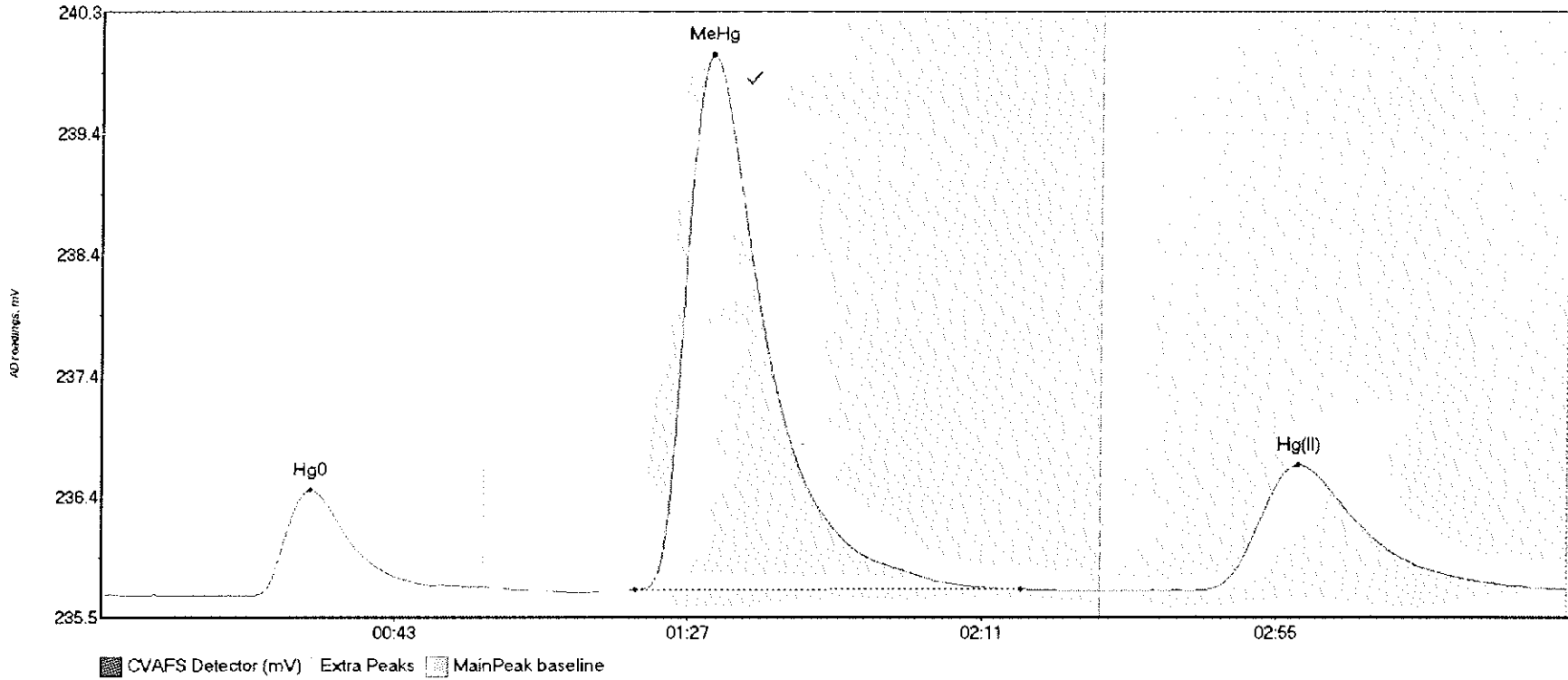
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BiShift	Comment
1608071-06RE1 H	155.333	17.5	57.5	235.66	235.80	31.6	1.534	CT	235.6560	0.00	0.06	
1608071-06RE1 M	1321.741	80.5	146.4	235.69	235.74	91.3	9.474	OK	235.6560	0.00	0.06	
1608071-06RE1 H	81.957	164.8	214.2	235.73	235.73	179.2	0.470	OK	235.6560	0.00	0.06	

#31: 1608071-07RE1



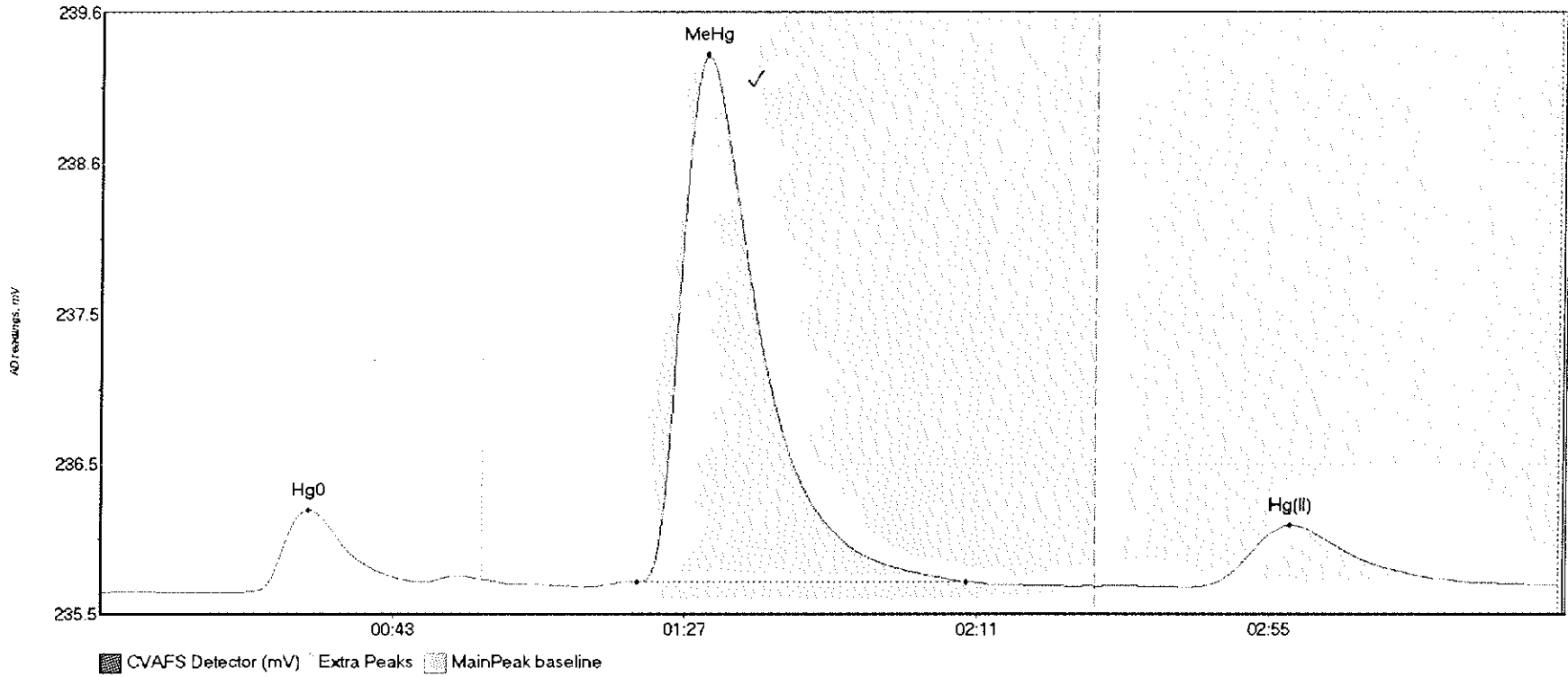
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-07RE1 H	129.030	21.9	57.5	235.66	235.77	31.4	1.243	CT	235.6697	0.00	0.04	
1608071-07RE1 M	895.677	80.4	149.5	235.70	235.72	91.5	6.373	OK	235.6697	0.00	0.04	
1608071-07RE1 H	89.533	163.9	217.4	235.71	235.72	179.6	0.505	OK	235.6697	0.00	0.04	

#32: 1608071-11RE1



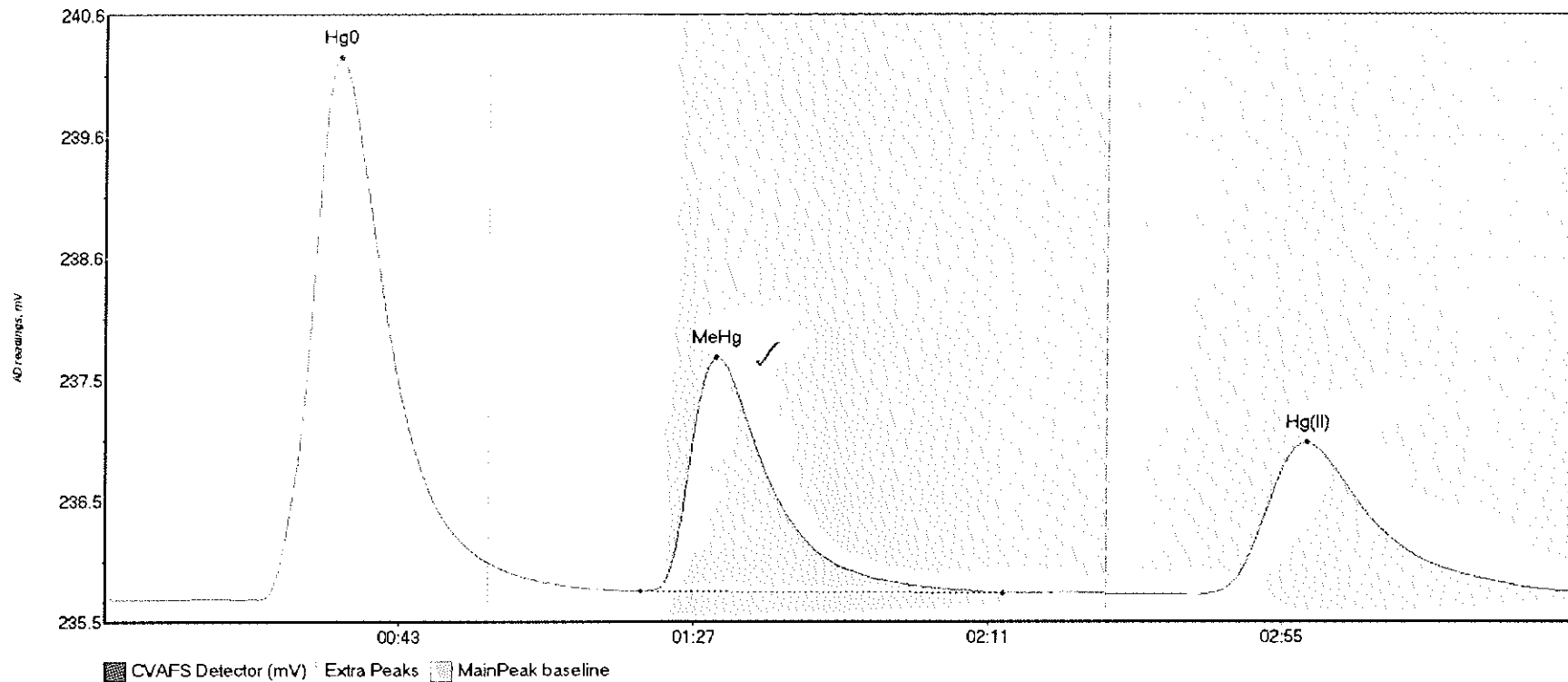
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1608071-11RE1 H	91.381	22.8	57.5	235.65	235.72	31.5	0.847	CT	235.6566	0.00	0.05	
1608071-11RE1 M	600.990	80.2	137.9	235.69	235.70	91.6	4.298	OK	235.6566	0.00	0.05	
1608071-11RE1 H	180.385	163.4	219.8	235.69	235.71	179.3	1.011	CT	235.6566	0.00	0.65	

#33: 1608072-02RE1



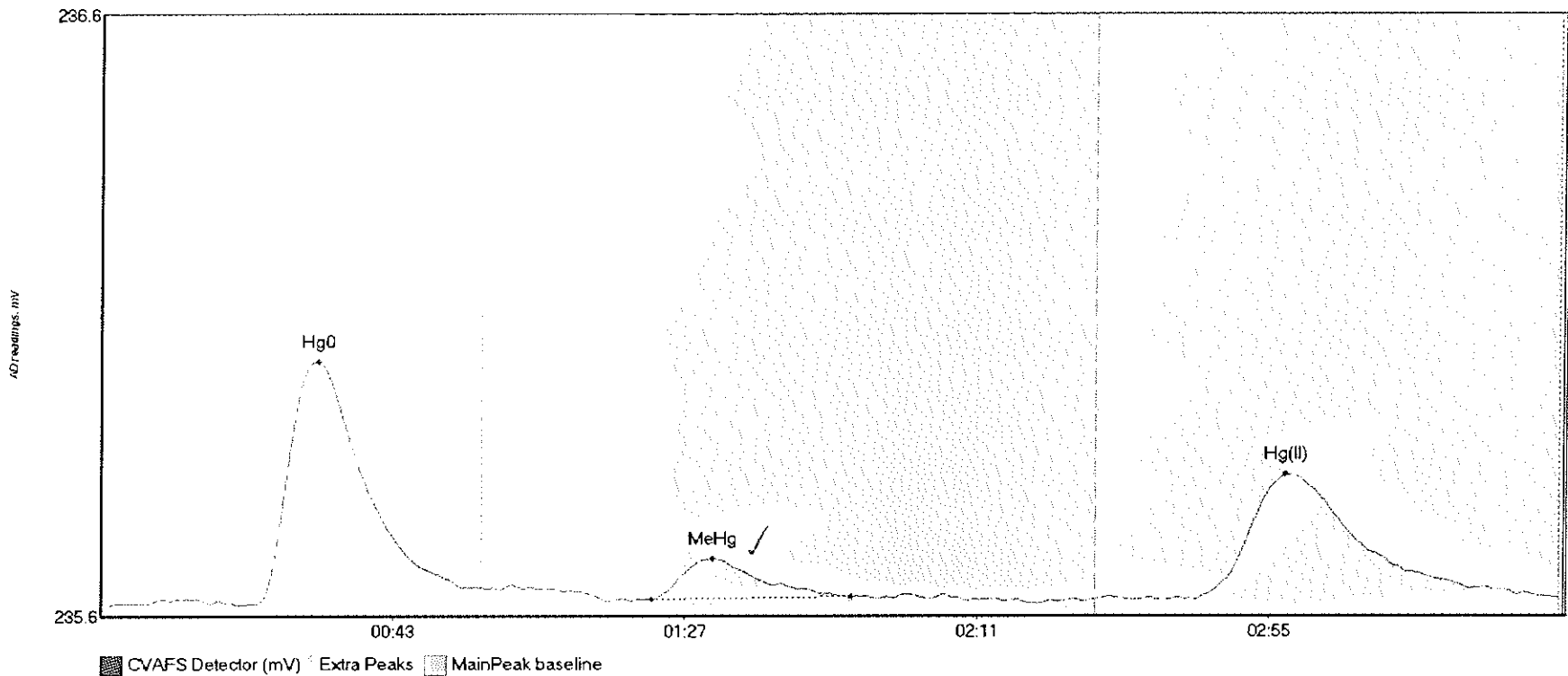
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608072-02RE1 H	54.867	20.4	48.7	235.64	235.71	31.5	0.560	OK	235.6386	0.00	0.05	
1608072-02RE1 M	490.758	80.9	130.5	235.71	235.71	91.3	3.582	OK	235.6386	0.00	0.05	
1608072-02RE1 H	76.280	163.9	217.7	235.67	235.69	179.2	0.424	OK	235.6386	0.00	0.05	

#34: SEQ-CCV2



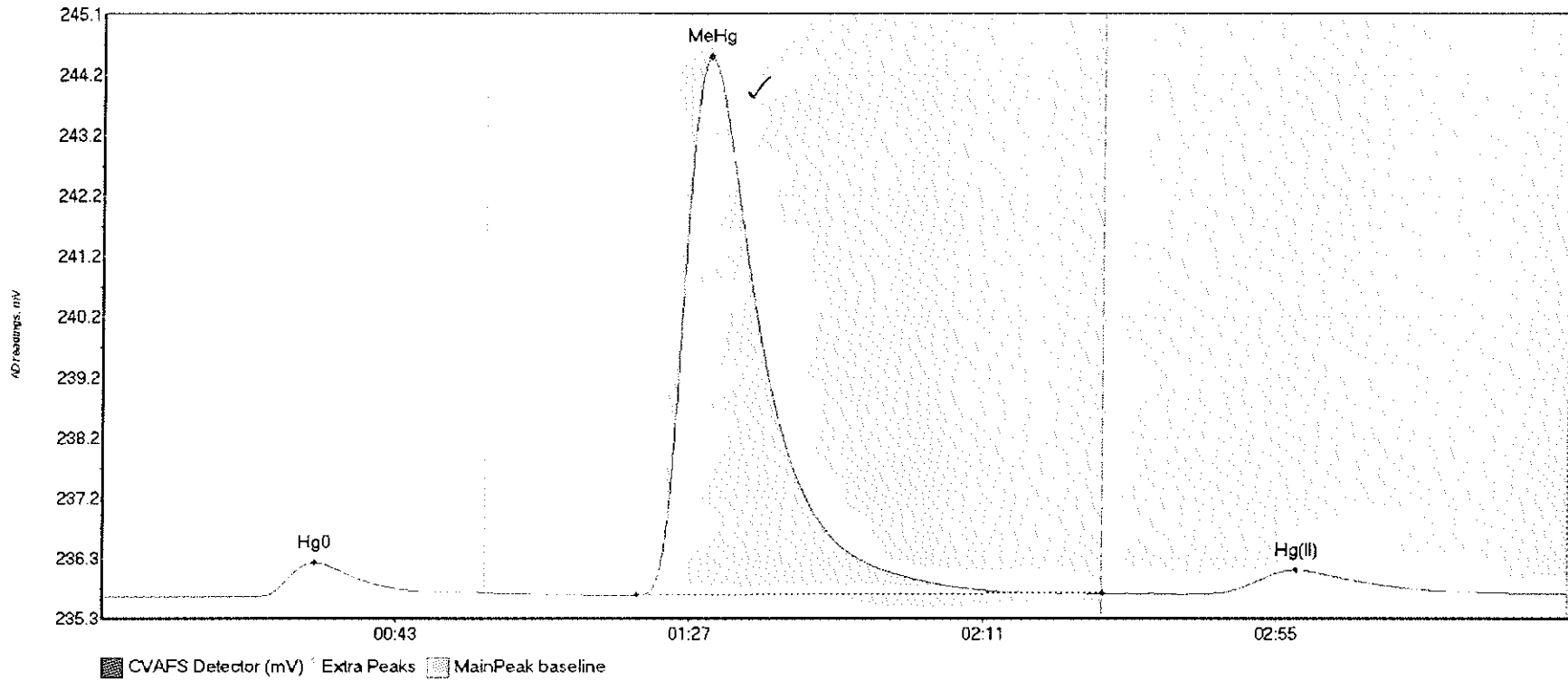
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV2 Hg0	571.775	23.1	57.5	235.65	235.96	35.1	4.619	CT	235.6470	0.00	0.07	
SEQ-CCV2 MeHg	281.346	80.1	134.3	235.71	235.70	91.5	2.000	OK	235.6470	0.00	0.07	
SEQ-CCV2 Hg(II)	238.485	163.7	219.8	235.69	235.71	179.7	1.299	CT	235.6470	0.00	0.07	

#35: SEQ-CCB2



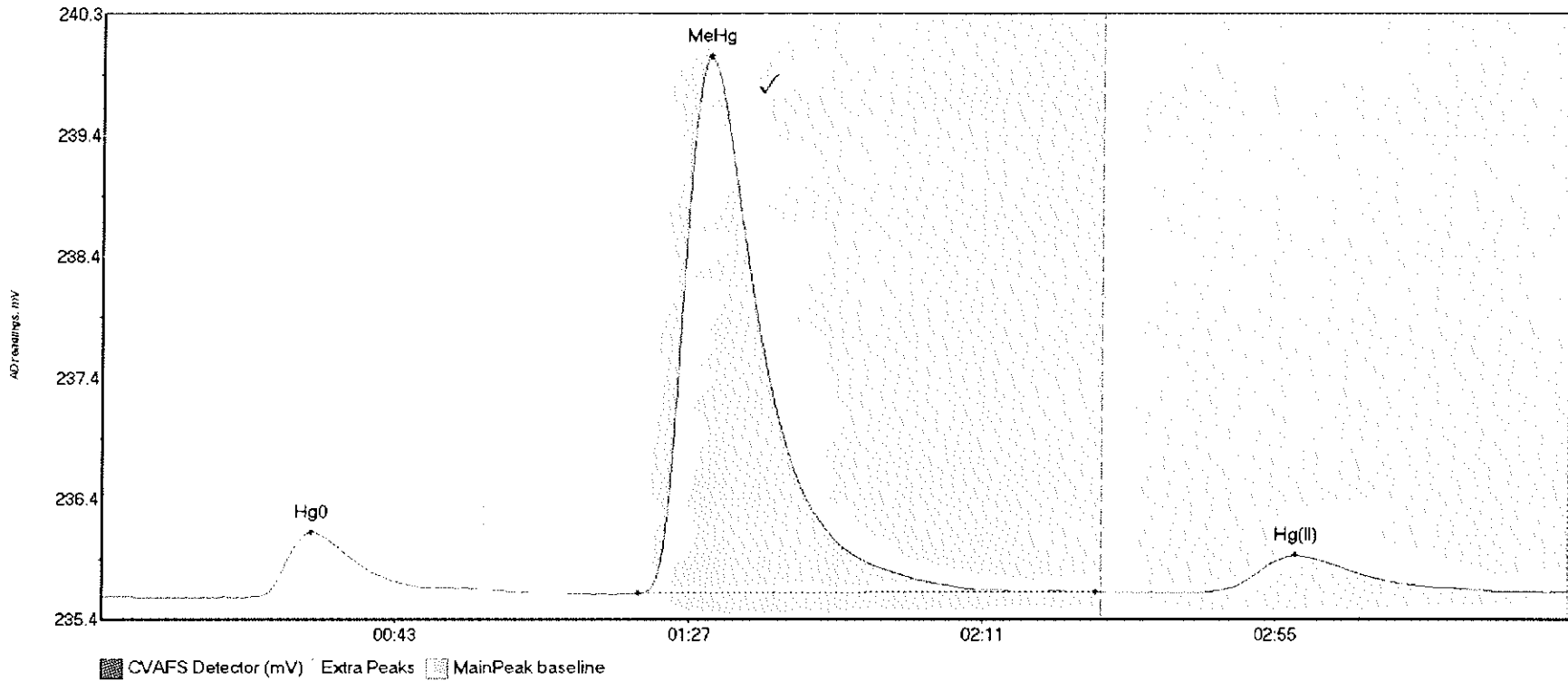
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	ElDev	ElShift	Comment
SEQ-CCB2 Hg0	50.526	23.4	57.5	235.65	235.67	32.8	0.404	CT	235.6426	0.00	0.02	
SEQ-CCB2 MeHg	8.963	83.0	113.1	235.65	235.66	92.3	0.068	OK	235.6426	0.00	0.02	
SEQ-CCB2 Hg(II)	38.206	165.2	216.7	235.65	235.66	178.5	0.268	OK	235.6426	0.00	0.02	

#36: 1607903-34RE1



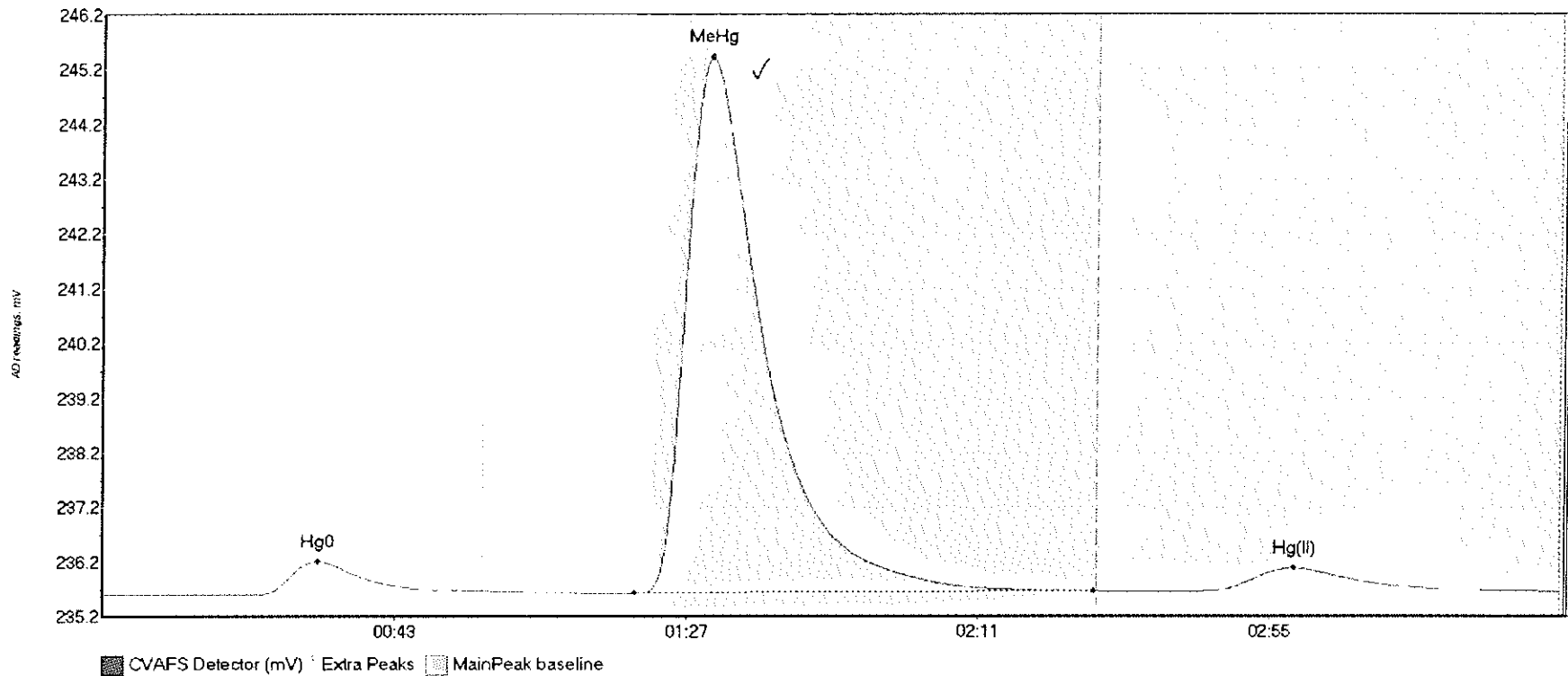
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-34RE1 H	63.422	22.3	57.5	235.63	235.69	31.9	0.551	CT	235.6281	0.00	0.04	
1607903-34RE1 M	1210.117	80.1	150.0	235.65	235.68	91.0	8.785	CT	235.6281	0.00	0.04	
1607903-34RE1 H	69.925	162.6	212.3	235.66	235.68	179.0	0.395	OK	235.6281	0.00	0.04	

#37: 1607903-35RE1



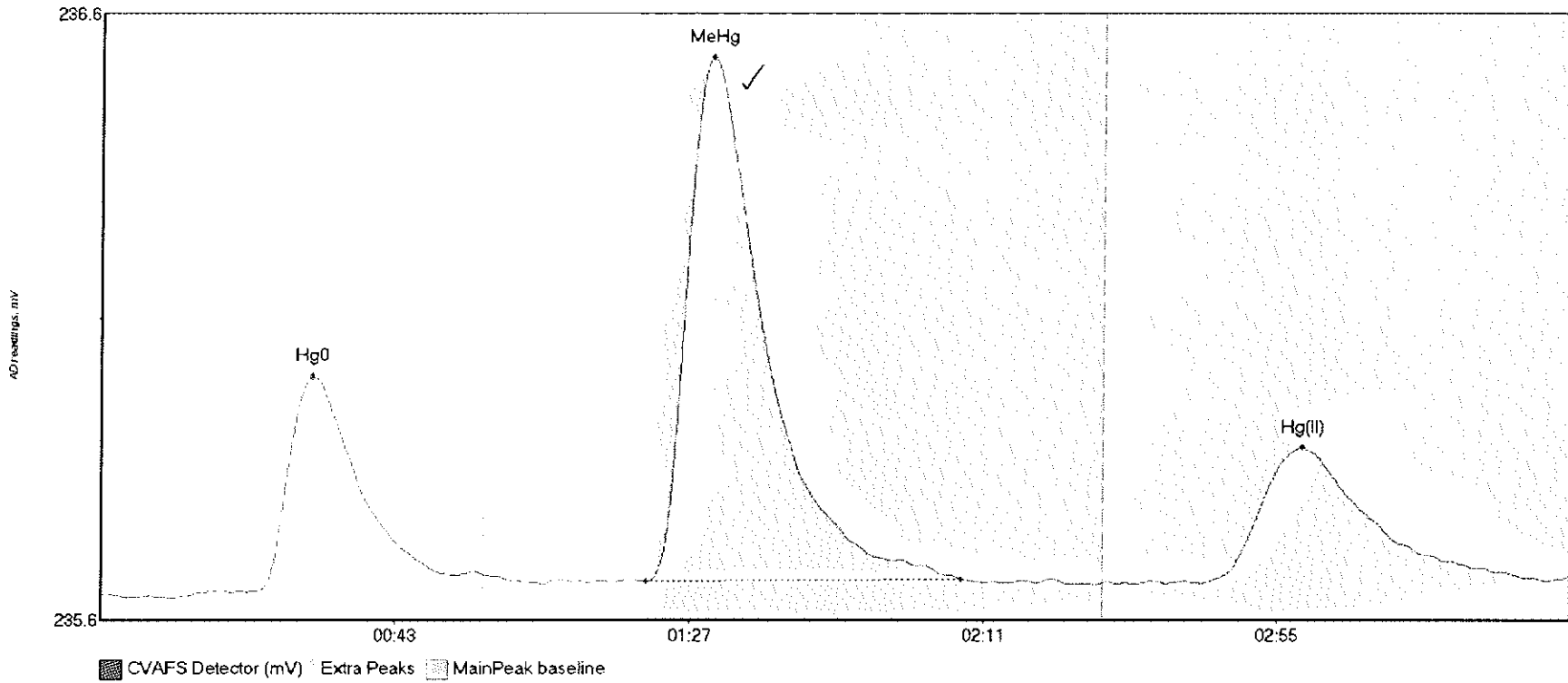
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-35RE1 H	61.226	21.8	57.5	235.63	235.69	31.5	0.525	CP	235.6335	0.00	0.04	
1607903-35RE1 M	596.484	80.5	149.1	235.66	235.67	91.0	4.336	OK	235.6335	0.00	0.04	
1607903-35RE1 H	53.352	164.4	216.8	235.67	235.67	179.1	0.302	OK	235.6335	0.00	0.04	

#38: 1607903-36RE1



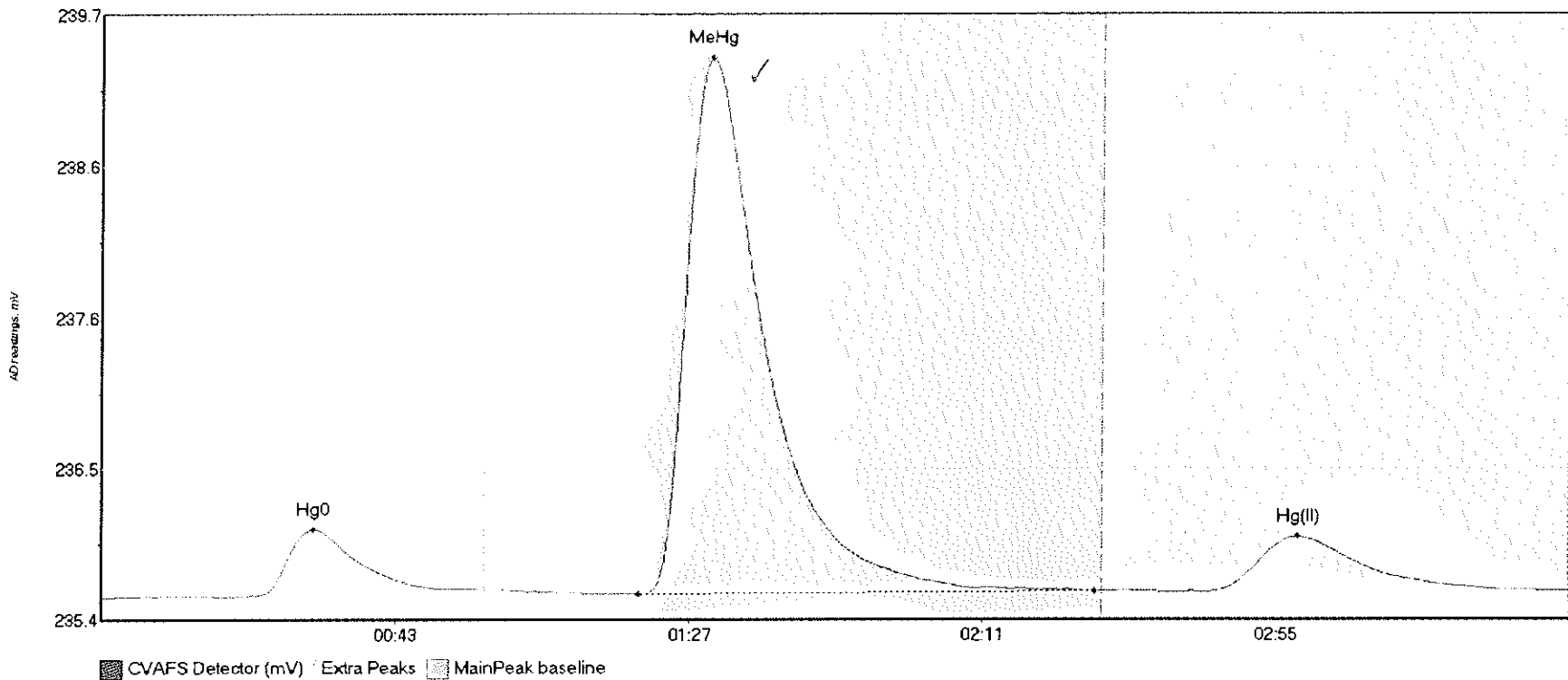
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	StDev	BlShift	Comment
1607903-36RE1 H	68.745	20.7	57.5	235.62	235.69	32.5	0.603	CF	235.6128	0.00	0.06	
1607903-36RE1 M	1343.670	80.1	149.4	235.65	235.68	91.7	9.779	OK	235.6128	0.00	0.06	
1607903-36RE1 H	73.986	164.3	215.6	235.67	235.68	179.7	0.431	OK	235.6128	0.00	0.06	

#39: 1607903-38RE1



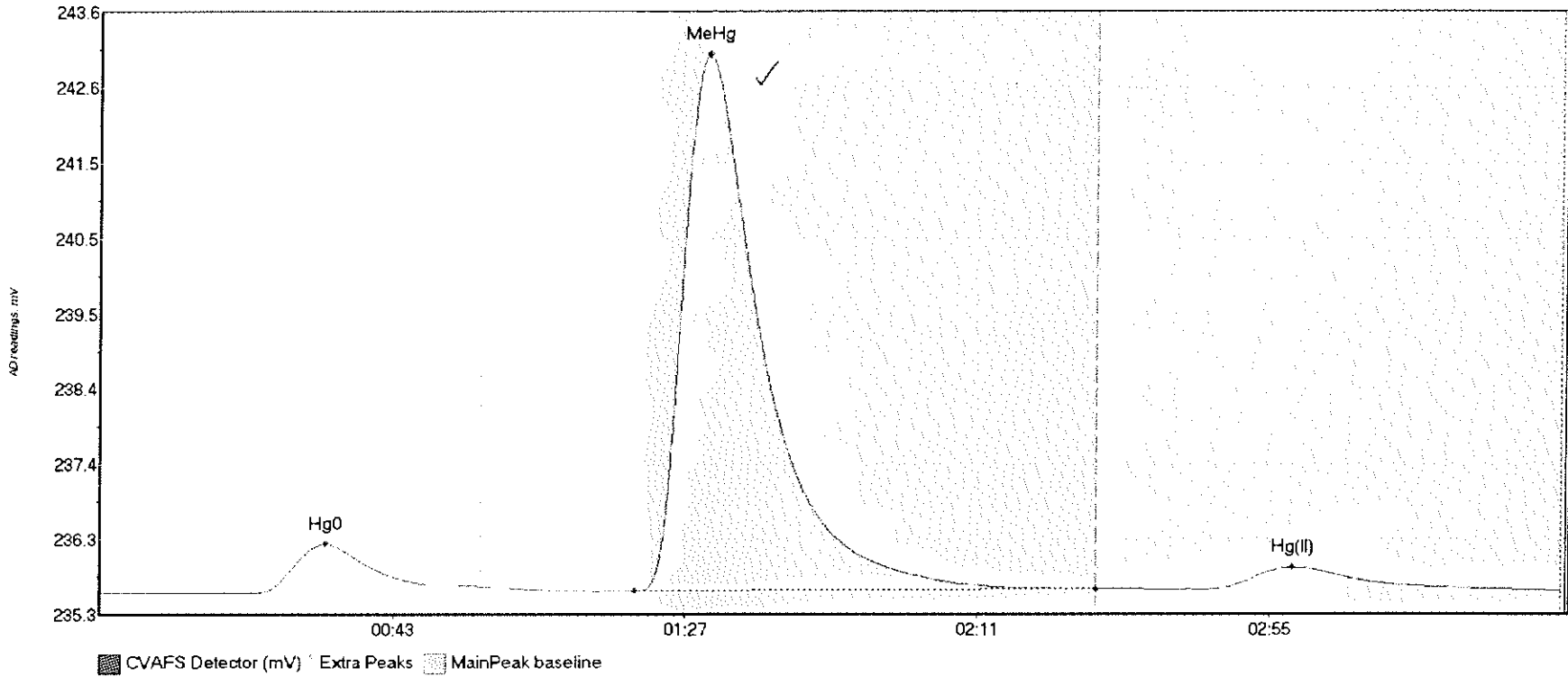
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-38RE1 H	42.933	23.2	53.2	235.62	235.65	31.6	0.376	OK	235.6163	0.00	0.03	
1607903-38RE1 M	123.932	81.6	128.8	235.64	235.64	91.3	0.917	OK	235.6163	0.00	0.03	
1607903-38RE1 H	43.822	164.9	216.2	235.63	235.64	179.7	0.238	OK	235.6163	0.00	0.03	

#40: 1607903-39RE1



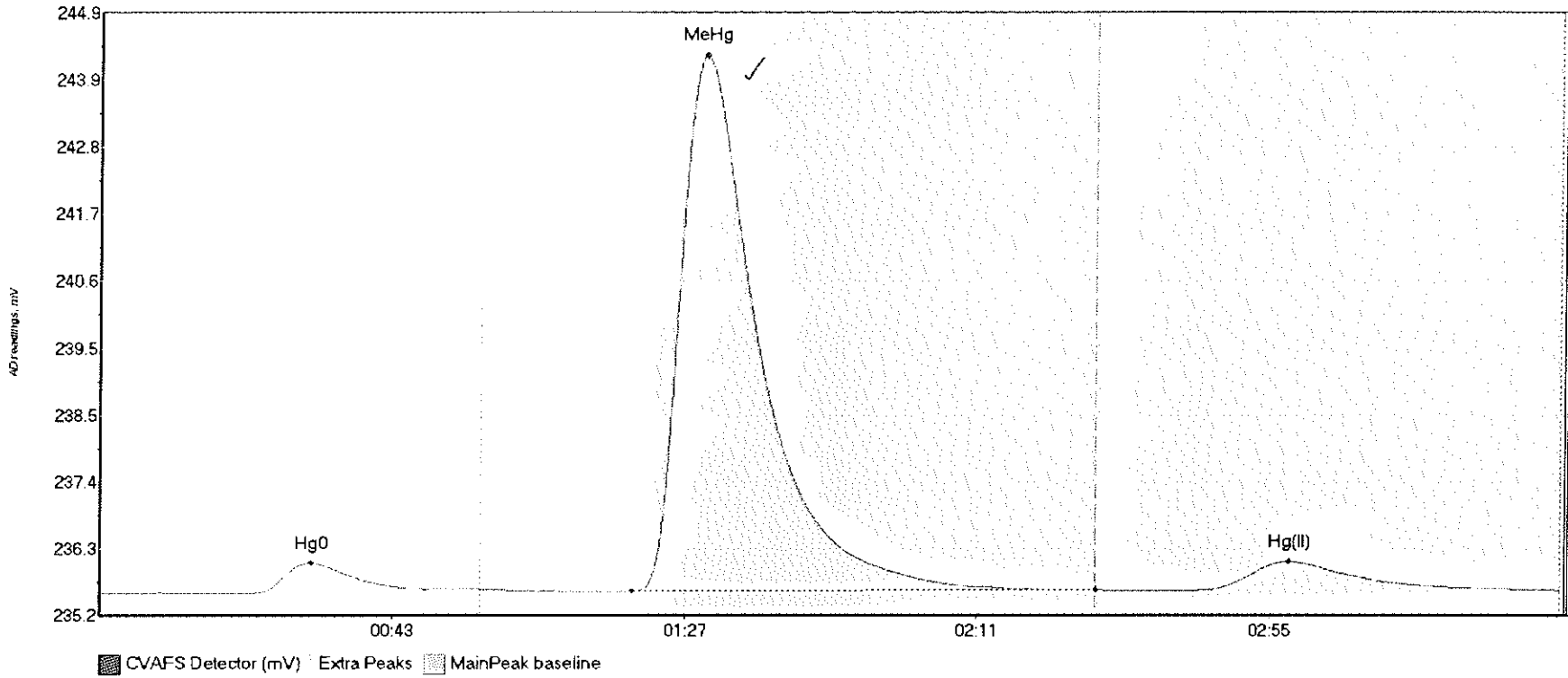
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	StDev	StShift	Comment
1607903-39RE1 H	53.467	0.1	57.5	235.59	235.65	31.7	0.481	CT	235.5922	0.00	0.05	
1607903-39RE1 M	518.286	80.5	148.7	235.62	235.64	91.3	3.760	OK	235.5922	0.00	0.05	
1607903-39RE1 H	68.653	165.3	216.7	235.63	235.64	179.3	0.388	OK	235.5922	0.00	0.05	

#41: 1607903-43RE1



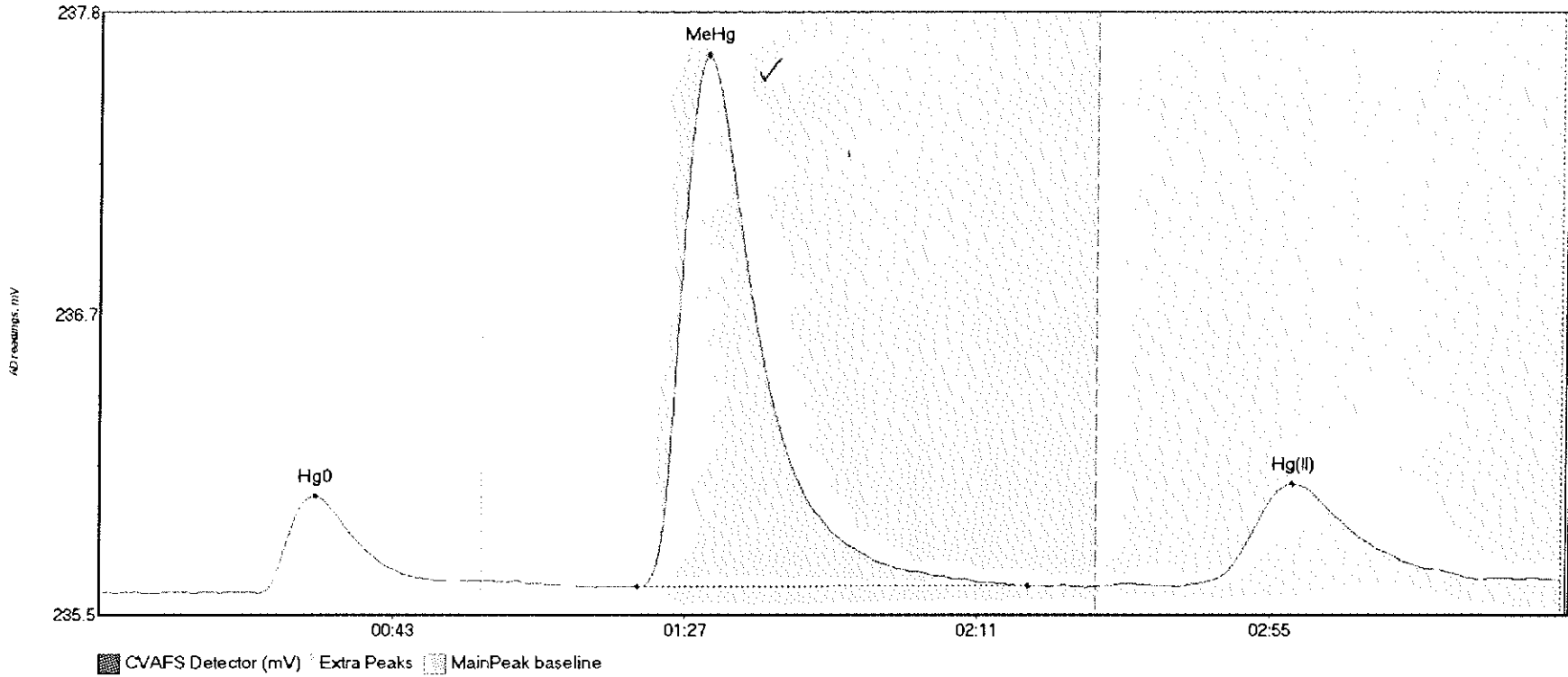
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-43RE1 H	80.840	23.0	57.5	235.61	235.69	33.9	0.676	CT	235.6063	0.00	0.03	
1607903-43RE1 M	1024.903	80.4	149.9	235.63	235.66	91.4	7.401	OK	235.6063	0.00	0.03	
1607903-43RE1 H	49.804	166.3	208.1	235.65	235.66	179.4	0.305	OK	235.6063	0.00	0.03	

#42: 1607903-44RE1



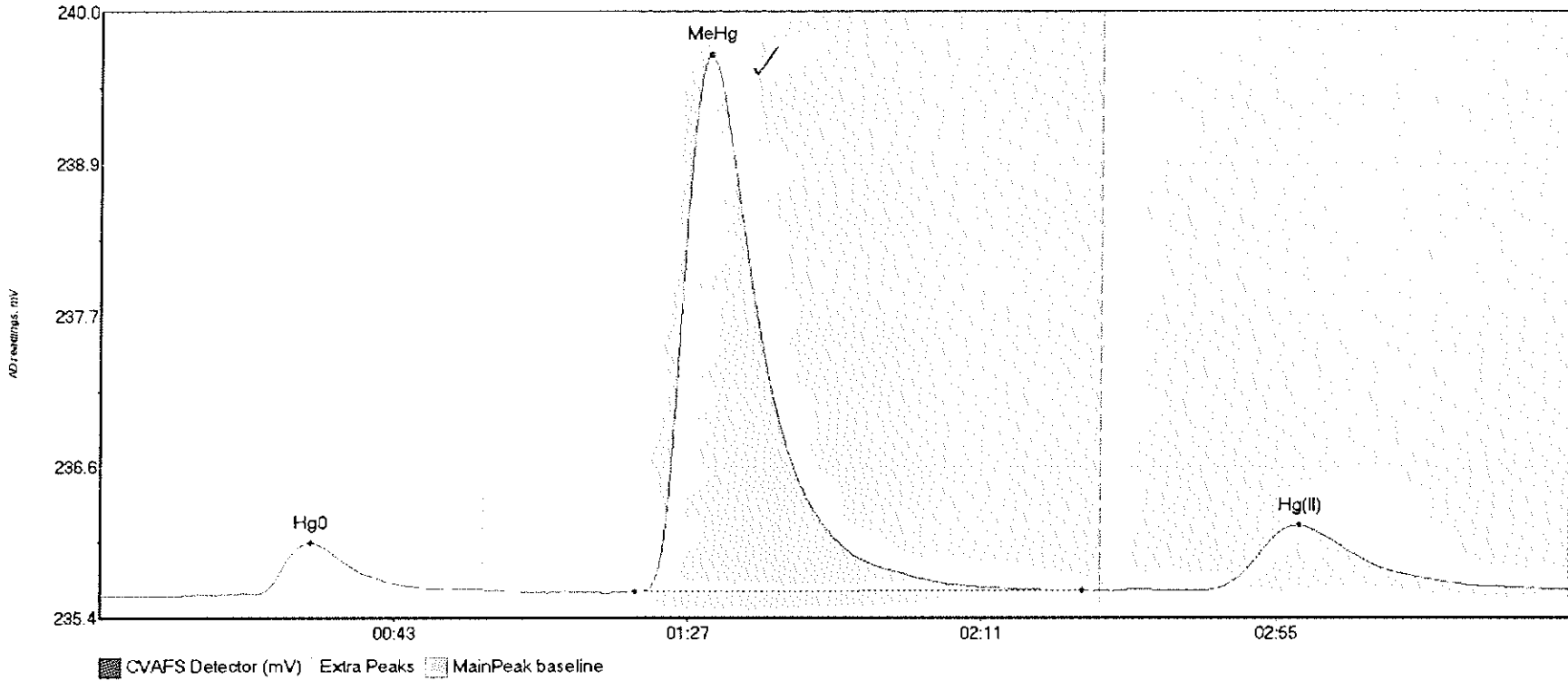
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1607903-44RE1 H	53.483	16.0	57.5	235.59	235.66	31.8	0.490	CT	235.5844	0.00	0.06	
1607903-44RE1 M	1181.570	80.1	150.0	235.63	235.65	91.0	8.617	CT	235.5844	0.00	0.06	
1607903-44RE1 H	82.528	165.1	216.7	235.64	235.65	179.0	0.457	OK	235.5844	0.00	0.06	

#43: 1608071-03RE1



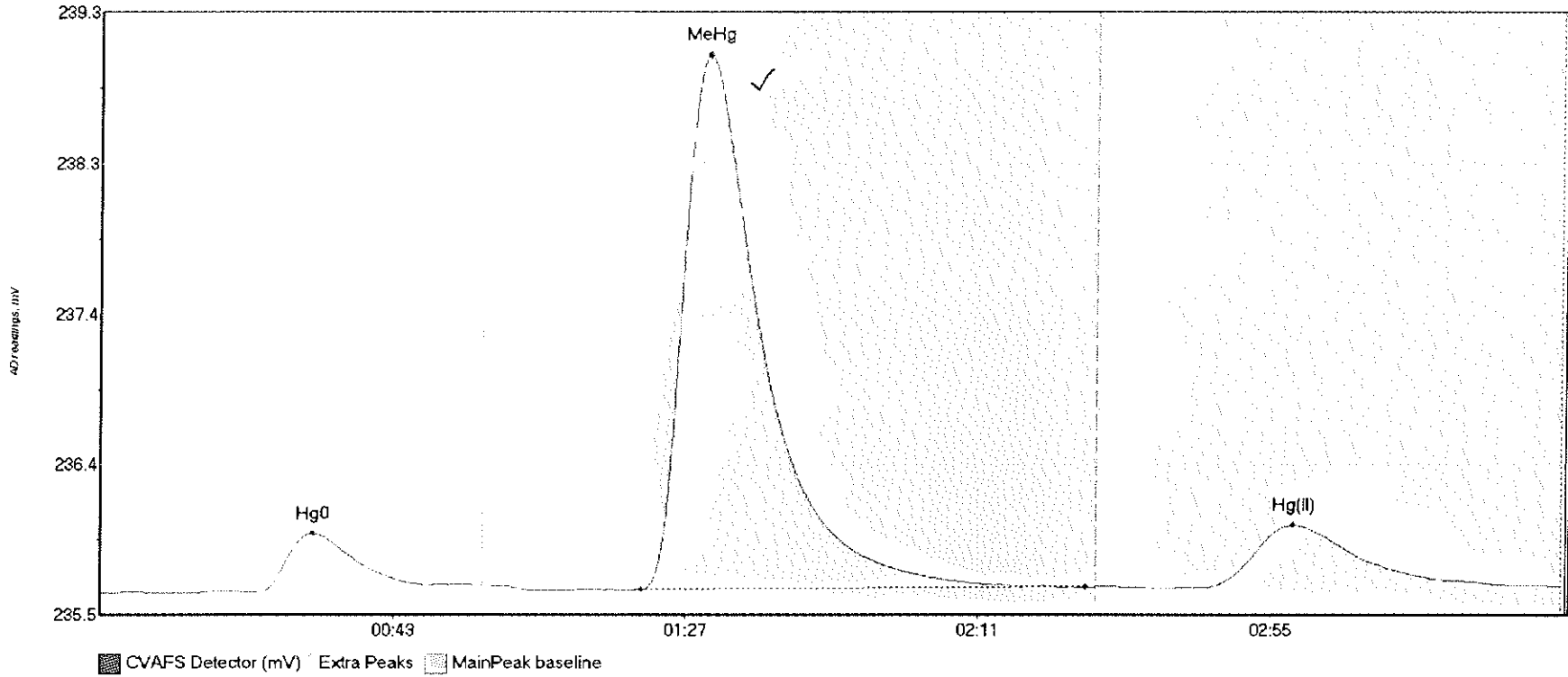
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-03RE1 H	41.789	23.8	55.3	235.59	235.64	32.3	0.372	OK	235.5974	0.00	0.05	
1608071-03RE1 M	281.289	80.9	139.8	235.62	235.62	91.3	2.037	OK	235.5974	0.00	0.05	
1608071-03RE1 H	69.399	161.9	218.9	235.62	235.65	179.4	0.393	OK	235.5974	0.00	0.05	

#44: 1608071-04RE1



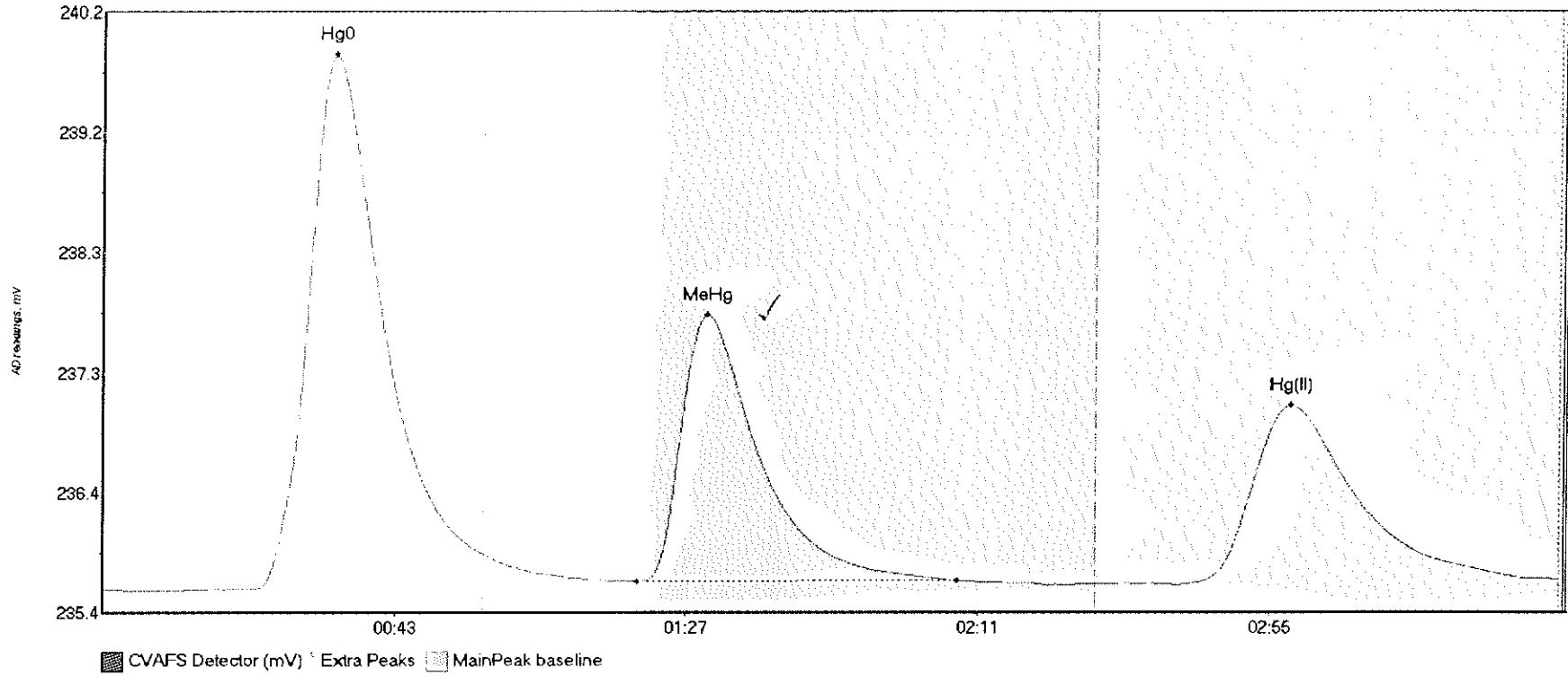
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-04RE1 H	44.698	11.6	57.5	235.60	235.65	31.6	0.398	CT	235.6031	0.00	0.05	
1608071-04RE1 M	550.392	80.2	147.2	235.64	235.64	91.1	4.025	OK	235.6031	0.00	0.05	
1608071-04RE1 H	87.348	165.7	217.5	235.65	235.65	179.5	0.486	OK	235.6031	0.00	0.05	

#45: 1608071-10RE1



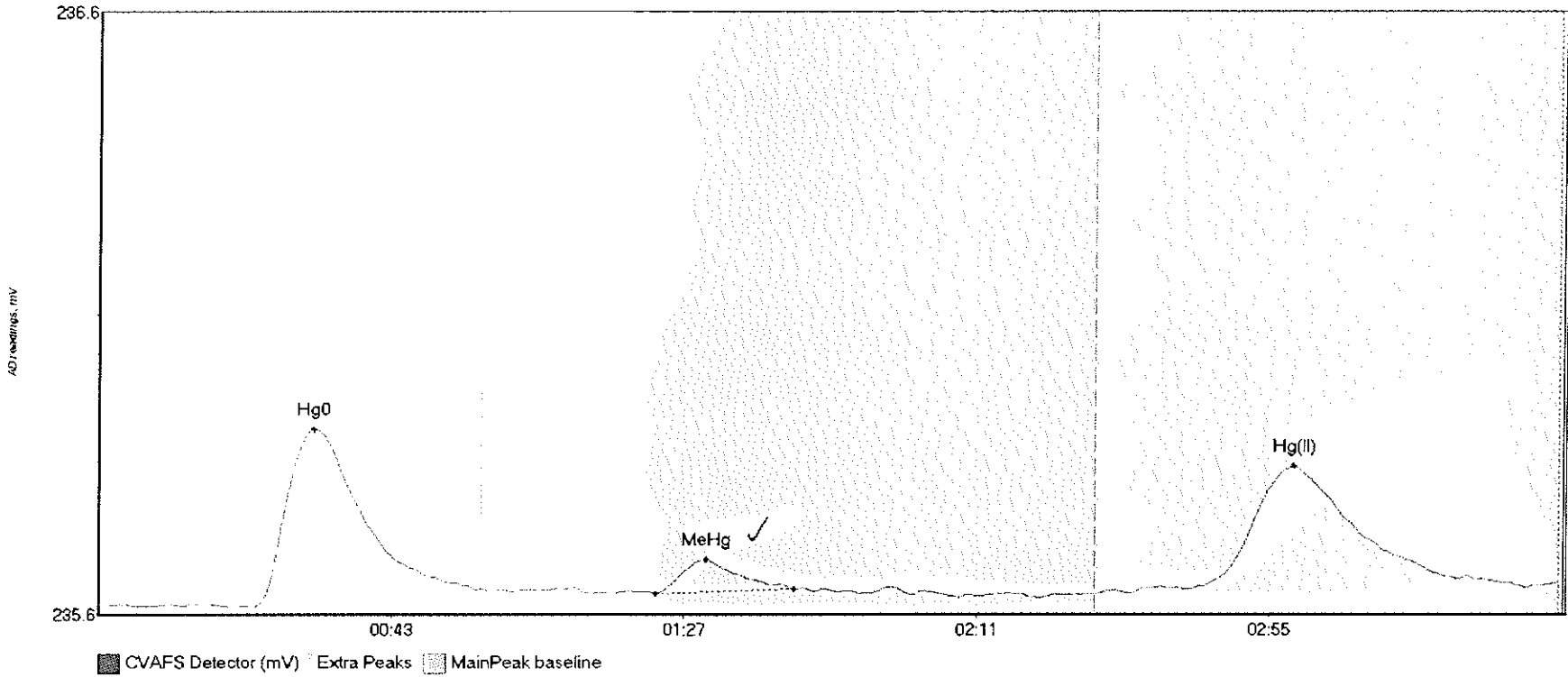
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608071-10RE1 H	39.101	13.7	49.0	235.61	235.66	32.0	0.380	OK	235.6084	0.00	0.04	
1608071-10RE1 M	466.887	81.4	148.3	235.63	235.65	91.5	3.390	OK	235.6084	0.00	0.04	
1608071-10RE1 H	69.470	166.0	214.2	235.65	235.66	179.5	0.394	OK	235.6084	0.00	0.04	

#46: SEQ-CCV3



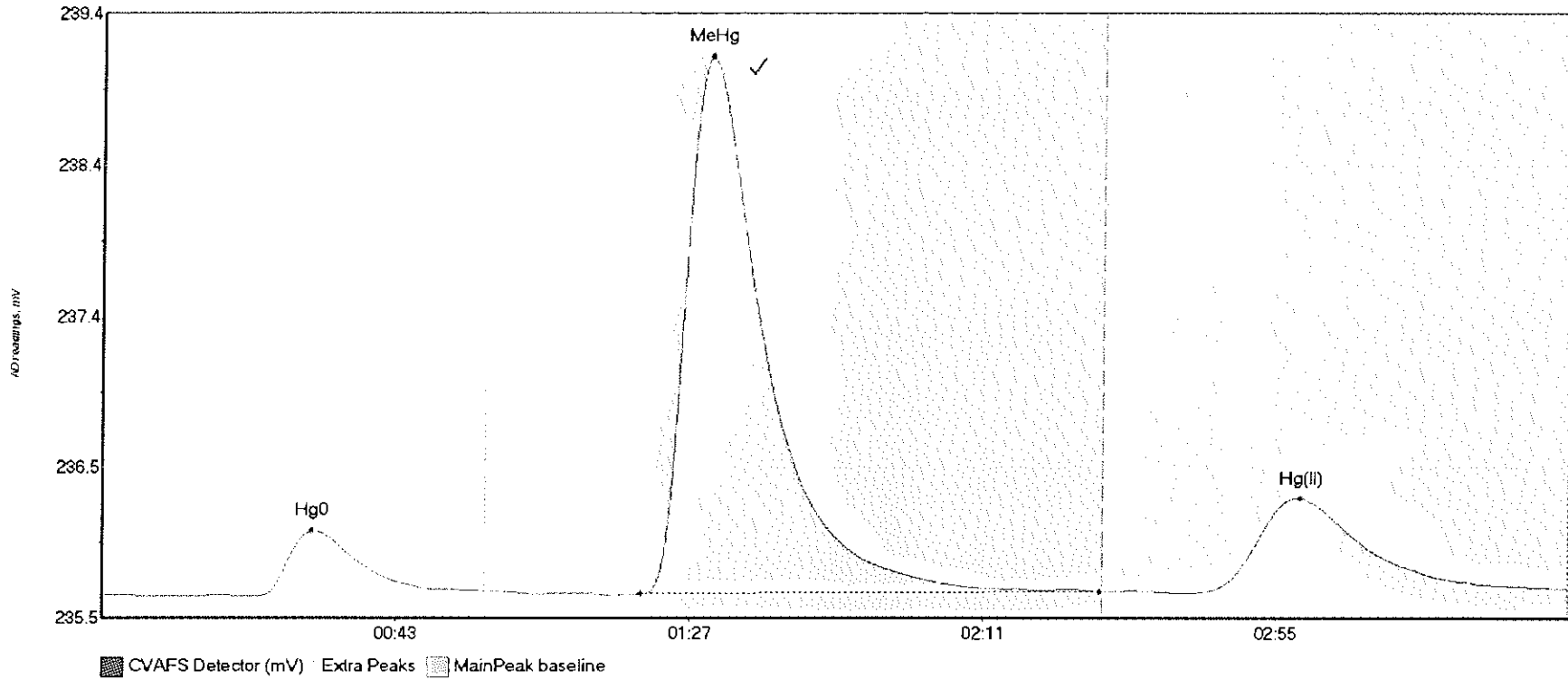
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV3 Hg0	504.875	15.5	57.5	235.61	235.89	35.0	4.234	CT	235.6049	0.00	0.09	
SEQ-CCV3 MeHg	284.650	80.8	128.9	235.67	235.68	91.2	2.113	OK	235.6049	0.00	0.09	
SEQ-CCV3 Hg(II)	254.074	162.4	219.8	235.65	235.69	179.2	1.422	CT	235.6049	0.00	0.09	

#47: SEQ-CCB3



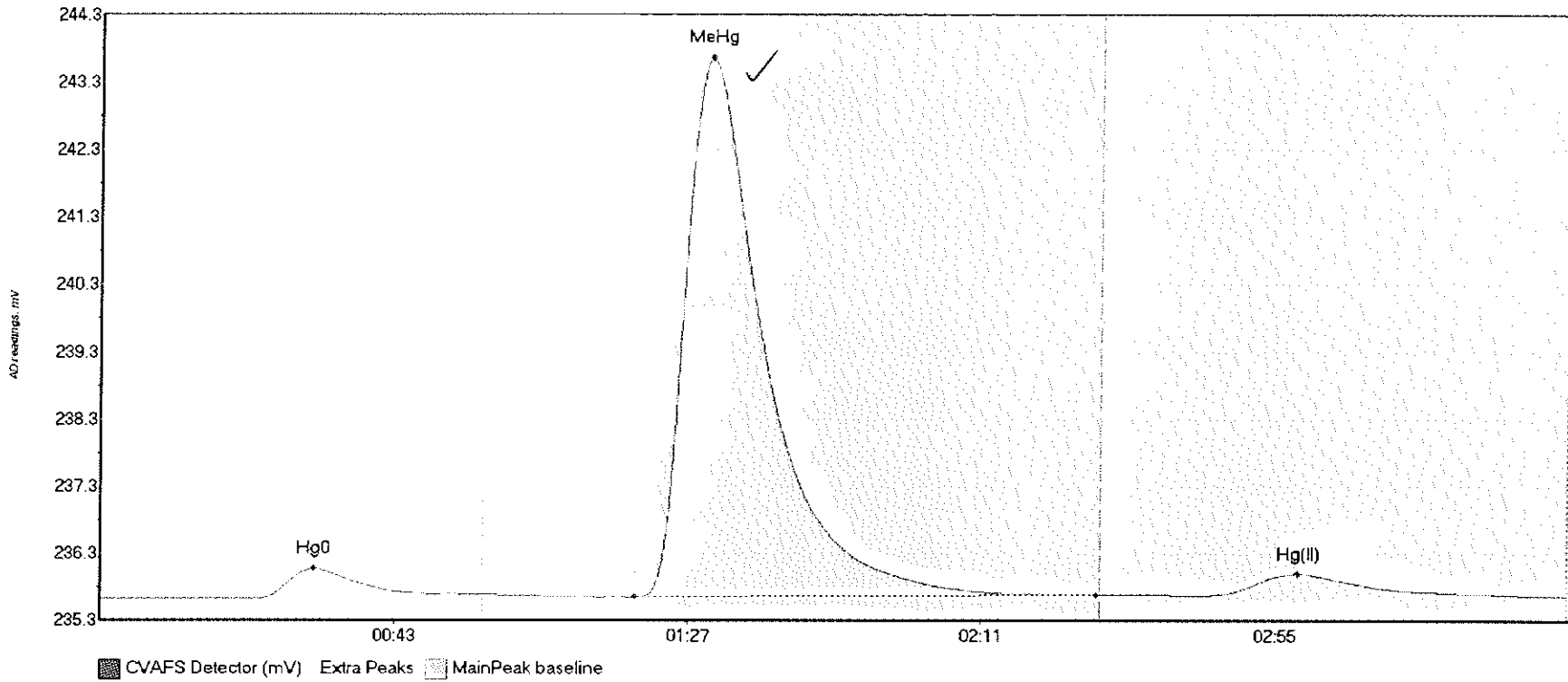
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	37.257	23.0	56.8	235.61	235.64	32.5	0.297	OK	235.6187	0.00	0.04	
SEQ-CCB3 MeHg	5.174	83.8	104.6	235.64	235.64	91.4	0.056	OK	235.6187	0.00	0.04	
SEQ-CCB3 Hg(II)	38.544	155.3	214.9	235.64	235.65	179.7	0.210	OK	235.6187	0.00	0.04	

#48: 1608071-02RE1/2 *Div 430-14*



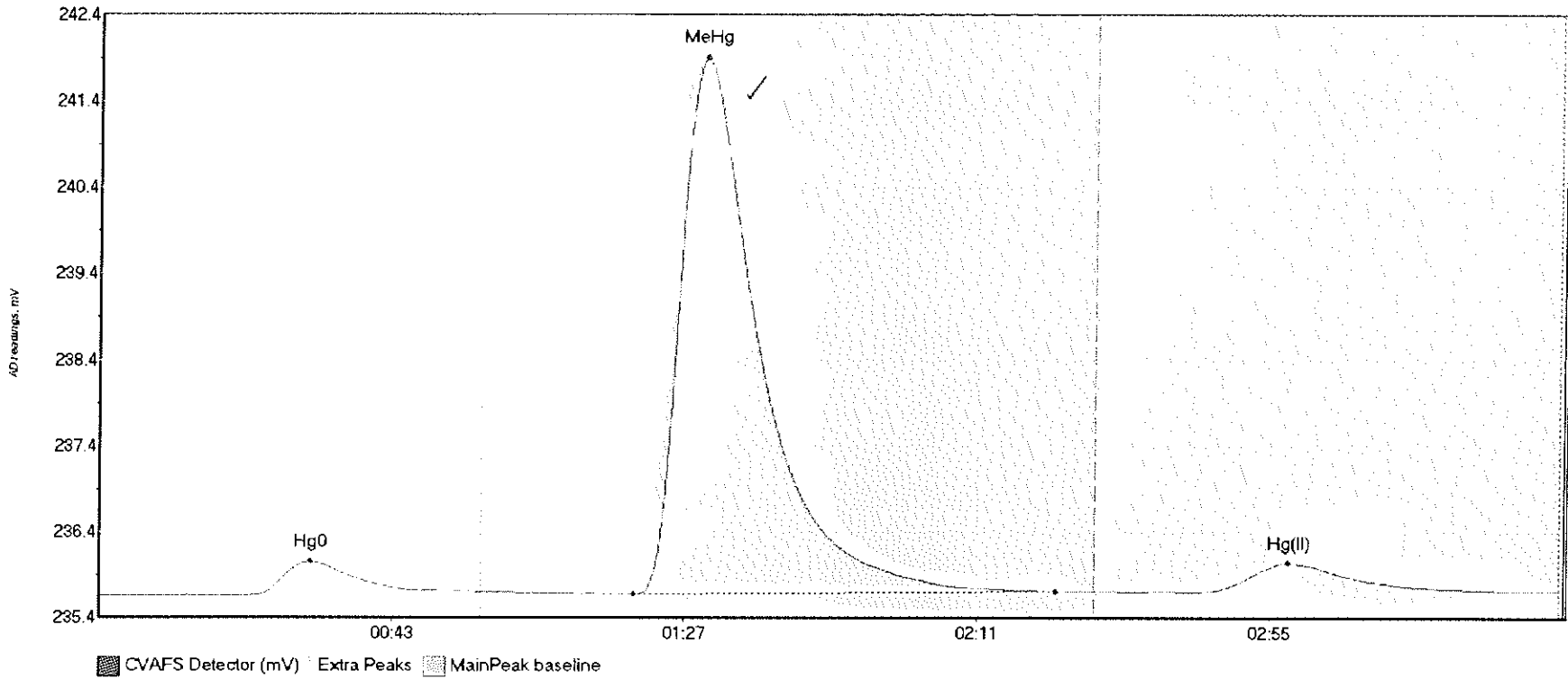
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
1608071-02RE1 H	49.817	22.8	57.5	235.62	235.66	31.5	0.424	CT	235.6332	0.00	0.04	
1608071-02RE1 M	476.967	80.7	149.5	235.64	235.66	91.1	3.452	OK	235.6332	0.00	0.04	
1608071-02RE1 H	110.814	163.4	218.1	235.64	235.67	179.7	0.613	OK	235.6332	0.00	0.04	

#49: F609212-MS5



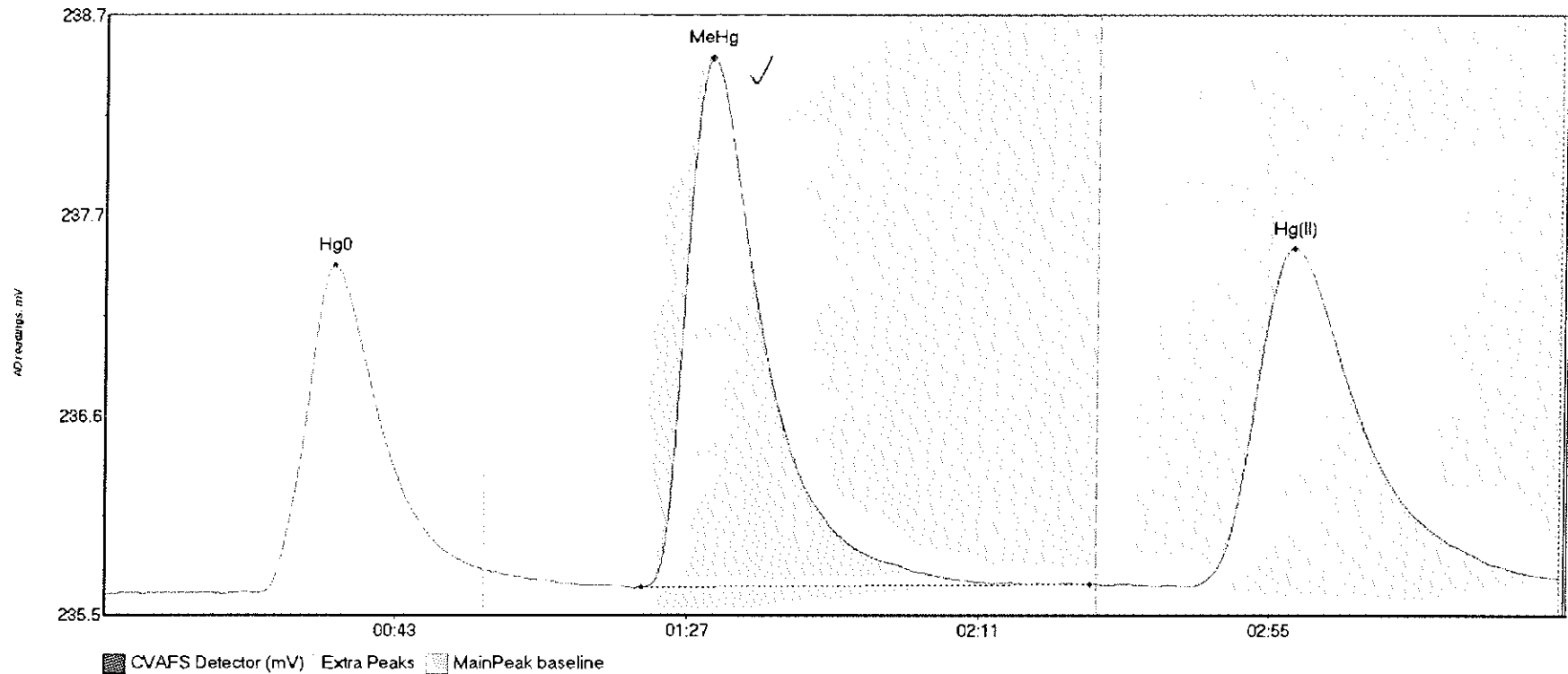
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609212-MS5 Hg0	49.734	23.5	57.5	235.62	235.68	32.0	0.443	CT	235.6194	0.00	0.05	
F609212-MS5 MeH	1097.402	80.2	149.3	235.64	235.68	91.3	7.986	OK	235.6194	0.00	0.05	
F609212-MS5 Hg(	55.394	165.1	210.2	235.67	235.68	179.5	0.324	OK	235.6194	0.00	0.05	

#50: F609212-MSD5



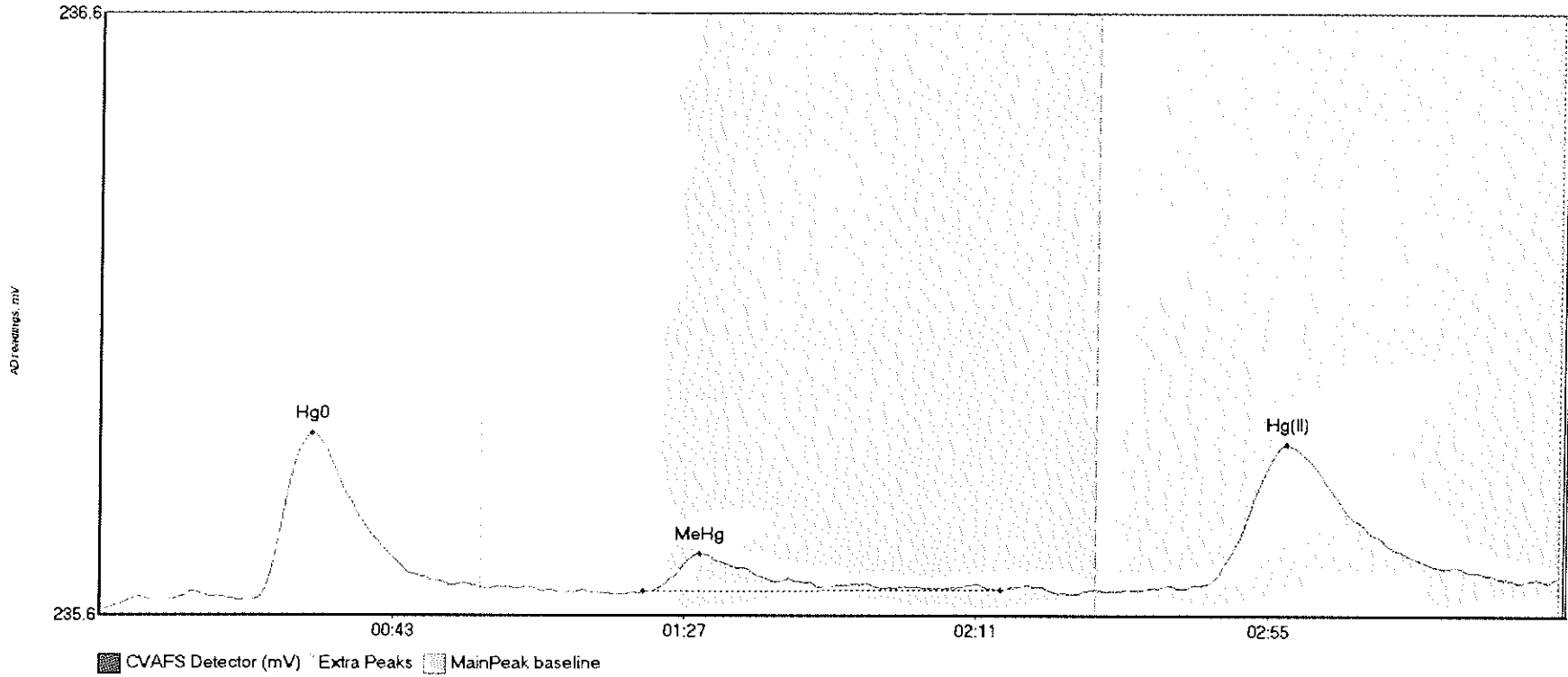
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	ElDev	ElShift	Comment
F609212-MSD5 Hg	45.569	22.3	57.5	235.63	235.67	31.8	0.392	CT	235.6313	0.00	0.05	
F609212-MSD5 Me	855.669	80.4	144.0	235.65	235.68	91.1	6.211	OK	235.6313	0.00	0.05	
F609212-MSD5 Hg	56.580	165.4	212.6	235.67	235.68	178.9	0.336	OK	235.6313	0.00	0.05	

#51: SEQ-CCV4



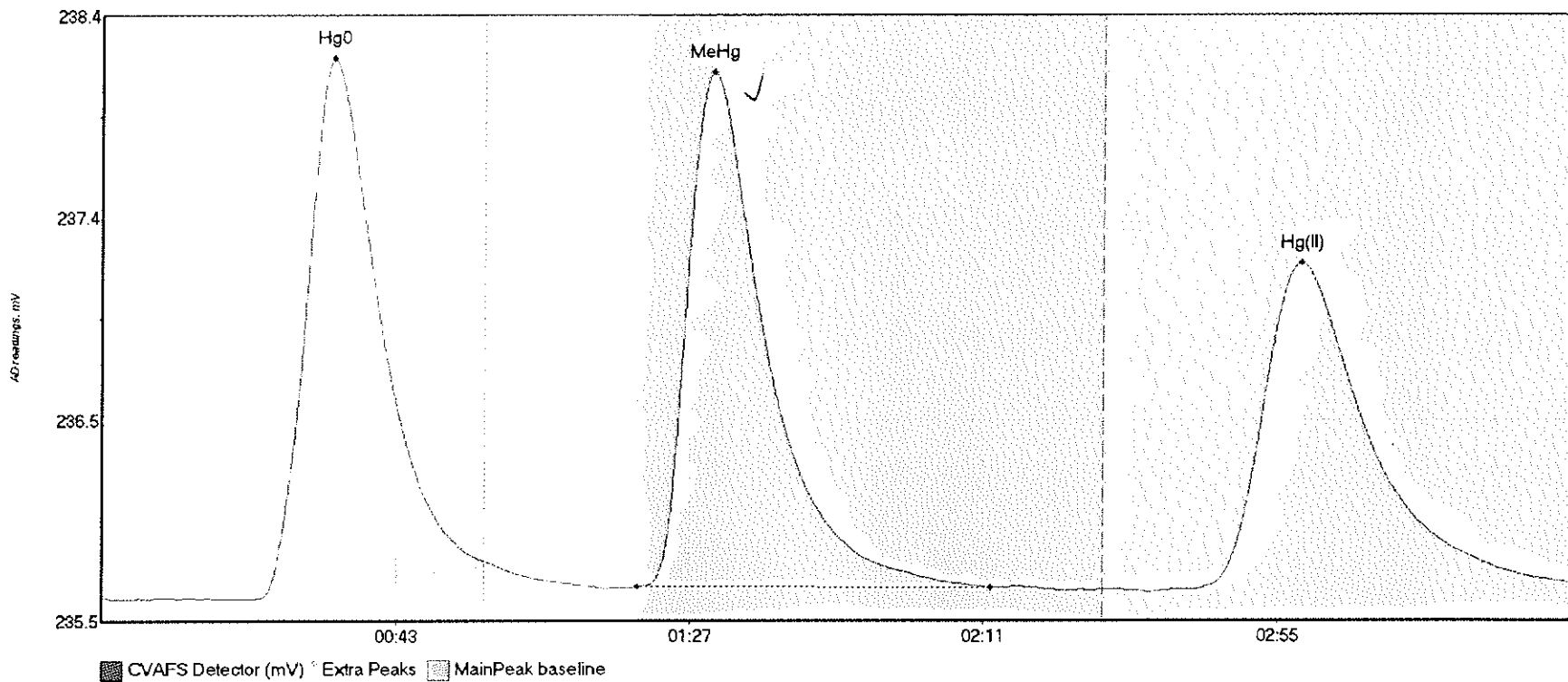
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	214.923	18.1	57.5	235.64	235.77	34.7	1.751	CF	235.6399	0.00	0.09	
SEQ-CCV4 MeHg	389.637	81.1	148.9	235.67	235.69	91.5	2.823	OK	235.6399	0.00	0.09	
SEQ-CCV4 Hg(II)	325.914	164.3	219.8	235.68	235.72	179.6	1.805	CF	235.6399	0.00	0.09	

#52: SEQ-CCB4 ✓



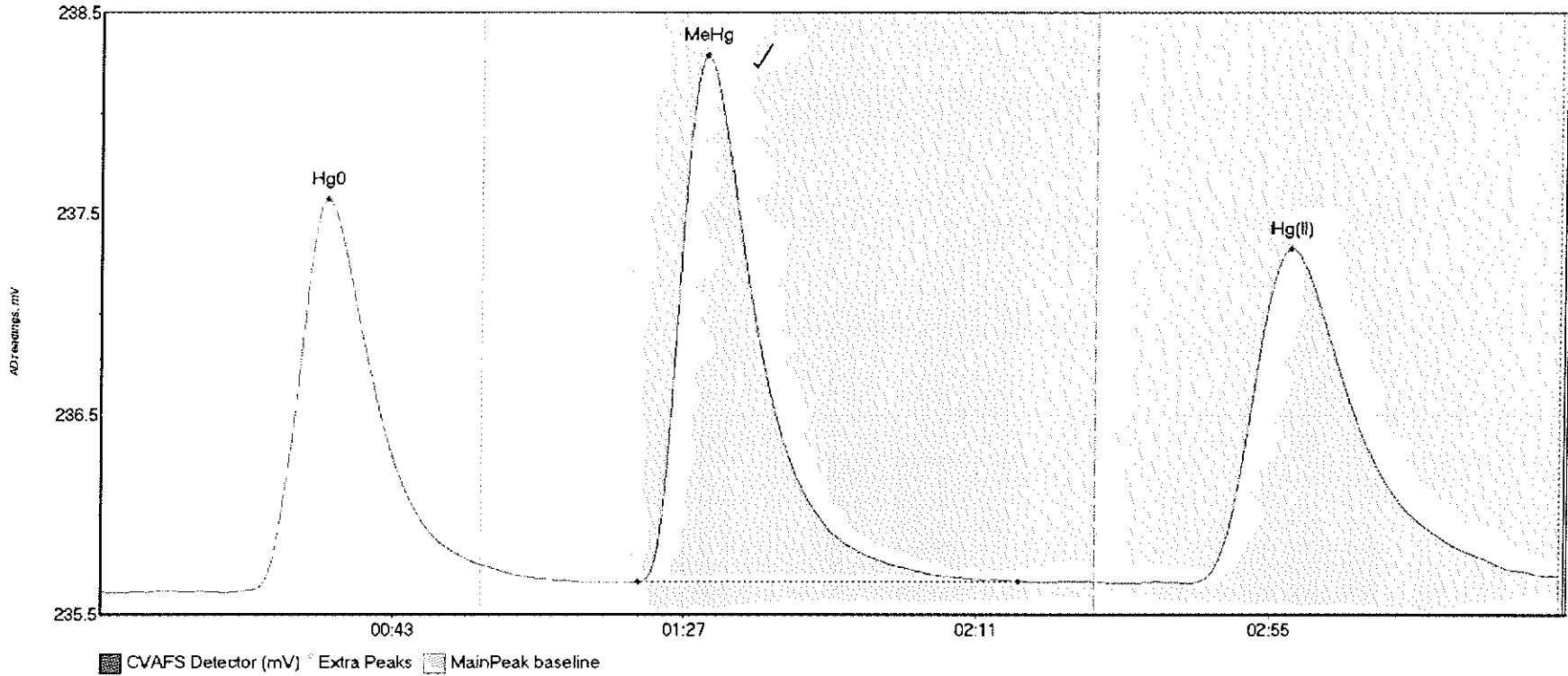
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	35.869	0.8	57.5	235.63	235.67	31.9	0.292	CT	235.6340	0.00	0.05	
SEQ-CCB4 MeHg	9.597	81.9	135.8	235.66	235.66	90.3	0.063	OK	235.6340	0.00	0.05	
SEQ-CCB4 Hg(II)	42.677	163.7	213.9	235.67	235.68	178.7	0.238	OK	235.6340	0.00	0.05	

#53: SEQ-CCV5



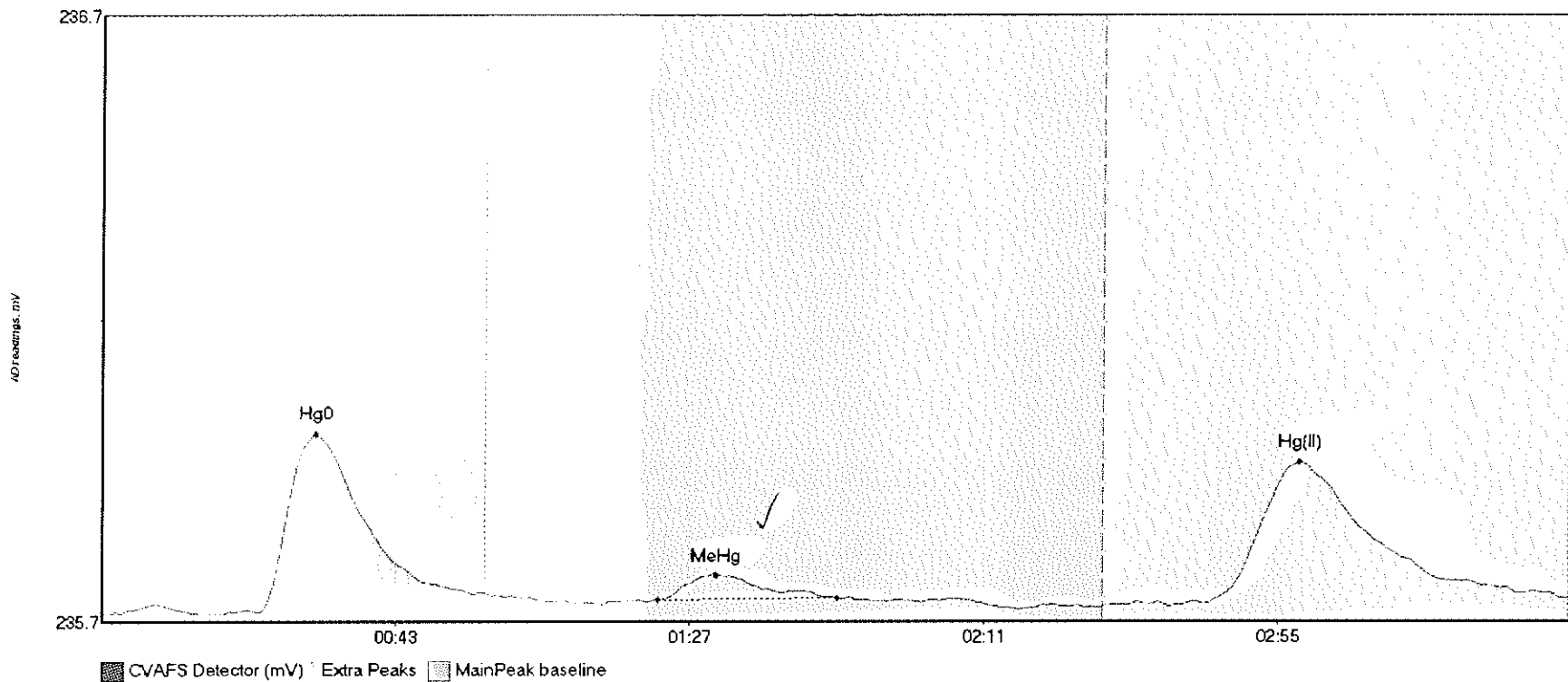
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	308.864	22.5	57.5	235.65	235.82	34.6	2.534	CT	235.6473	0.00	0.07	
SEQ-CCV5 MeHg	328.980	80.1	133.1	235.70	235.70	91.4	2.412	OK	235.6473	0.00	0.07	
SEQ-CCV5 Hg(II)	274.231	163.7	219.8	235.69	235.72	179.5	1.531	CT	235.6473	0.00	0.07	

#54: SEQ-CCV6



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BiDev	BlShift	Comment
SEQ-CCV6 Hg0	235.537	19.1	57.5	235.65	235.79	34.1	1.907	CP	235.6573	0.00	0.08	
SEQ-CCV6 MeHg	346.587	81.2	138.4	235.71	235.71	91.2	2.549	OK	235.6573	0.00	0.08	
SEQ-CCV6 Hg(II)	291.523	164.3	219.5	235.70	235.74	179.2	1.621	OK	235.6573	0.00	0.08	

#55: SEQ-CCB5



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB5 Hg0	36.102	23.5	55.4	235.67	235.70	32.1	0.294	OK	235.6638	0.00	0.03	
SEQ-CCB5 MeHg	5.257	83.3	110.1	235.69	235.69	92.0	0.042	OK	235.6638	0.00	0.03	
SEQ-CCB5 Hg(II)	43.522	165.2	218.7	235.68	235.69	179.2	0.232	OK	235.6638	0.00	0.03	

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

Analyst: Ryan Nelson	Sequence #: 6I09004
Reviewer: DAN WEHART 9/30/16	Dataset ID #: MHg27001-160930-1
Date:	WO #: Various
Batch #(s): F609212	Client(s): Various

• Select the correct preparation method.

Additional Comments:

Analyte	Prep Method	Matrix
<input 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:	Reviewer Initials:		
1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	R	<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	9/30/16	<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	<input checked="" type="checkbox"/>
(d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries).	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(f) Check and compare masses (review prep bench sheet)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(g) Check and compare initial and final volumes	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(h) Do aliquots and dilutions written on benchsheet match those in Excel?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(i) Is the pH>3.0 for all distilled samples?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(j) Is the sequence #, analyst, date, and instrument # on the QC page?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(k) Is the analysis status correct? (analyzed/initial review/reviewed)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(l) Original prep bench sheet added to data package?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
3. High QA? WO#(s)/Client(s):	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		<input checked="" type="checkbox"/>
4. Client specific QC? (if Yes, refer to Project Notes/LIMS)	<input 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	<input checked="" type="checkbox"/>
Comments:				
7. 1st Calibration Standard % Recoveries (65-135%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
Comments:				
8. RSD CF (≤ 15%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<input checked="" type="checkbox"/>
Comments:				

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

Analyst: Ryan Nelson	Sequence #: 6I09004
Reviewer: 0	Dataset ID #: MHg27001-160930-1
Date: 9/30/2016	WO #: Various
Batch #(s): F609212	Client(s): Various

Analyst Initials:

R

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 type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
13. LCS/LCSD or BS/BSD RPD (< 25%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: _____			
14. Water: Average of Preparation Blanks < 0.045 ng/L and standard deviation of 0.015 ng/L?	<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____			
15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix?	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Comments: _____	<input 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 checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input 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: <u>QM-02</u>			
23. MSD (ASD) % Recoveries (65-130%)	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input checked="" type="checkbox"/>
Comments: <u>QM-02</u>			
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 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 #: 6I09004
Reviewer: 0	Dataset ID #: MHg27001-160930-1
Date: 9/30/2016	WO #: Various
Batch #(s): F609212	Client(s): Various

Analyst Initials:

Reviewer Initials:

29. Are re-runs noted with reason?

YES NO

N/A

Comments: _____

30. For failing QC (CCV, CCB, PB, BS/BSO, CAL):

YES NO

N/A

Was a bubbler and trap test run before the analytical run continued?

Comments: _____

31. Do re-run results compare to initial analysis (< 35% RPD)?

YES NO

N/A

Comments: _____

32. Are qualifiers consistent with the data review flowcharts?

YES NO

N/A

Comments: QM-02

33. Have non-reportable samples been imported into LIMS and clicked to non-reportable?

YES NO

N/A

Comments: _____

34. Have re-extracts been created for non-reportable samples?

YES NO

N/A

35. Narrations in MMO box in LIMS?

Comments: _____

36. Are there any HIGH QA projects within the data?

YES NO

If so, place dataset to the QA office.

37. Does the data set need scanning?

YES

N/A

Files located at: \\Cuprum\gen_admin\Quality Assurance\Training Master\DOCs

38. Date of analyst IDOC/CDOC: 7/19/2016 IDOC/CDOC within last 12 months?

YES NO

39. Date of analyst's SOP reading: 6/8/2016 Current SOP revision?

YES NO

40. Date of LOD: 4/21/2016 LOD within last 3 months (within 12 months for MDN)?

YES NO

N/A

41. Date of LOQ: 4/21/2016 LOQ within last 3 months (within 12 months for MDN)?

YES NO

N/A

42. If MDN samples, date of last MDL study: _____

43. MDL study within last 12 months?

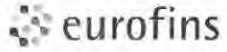
YES NO

N/A

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

Additional Comments:

YES NO



Frontier Global Sciences

MMHg27001-160916-1 WATERS

Analysis Datasheet for Methyl Mercury in Waters

Date of Analysis: September 16, 2016

Instrument #: Hg2700-1

LIMS Sequence #: 6116011

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	28.56 units	571.15	27.78 units	555.55	90.2 %Rec
SEQ-CAL2	1	0.20 ng/L	125.59 units	627.96	124.81 units	624.06	101.4 %Rec
SEQ-CAL3	1	1.00 ng/L	616.30 units	616.30	615.52 units	615.52	100.0 %Rec
SEQ-CAL4	1	2.00 ng/L	1398.89 units	699.44	1398.11 units	699.05	113.5 %Rec
SEQ-CAL5	1	4.00 ng/L	2338.07 units	584.52	2337.29 units	584.32	94.9 %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	Eff Factor			
615.70	+/- 53.90	8.8% RSD	619.87	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	0.78 units		0.00 ng/L	#VALUE!

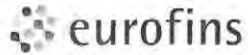
Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.013 ng/L	±0.004
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: BC 9/19/16

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hq2700-1	RN	CAL	SEQ-IBL1	1	9/16/16 8:34	15680-1.RAW	8:34	0.78			0.0	0.000	0.000	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL1	1	9/16/16 8:44	15681-1.RAW	#####	28.56			27.8	0.045	0.045	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL2	1	9/16/16 8:55	15682-1.RAW	#####	125.59			124.8	0.203	0.203	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL3	1	9/16/16 9:05	15683-1.RAW	#####	616.30			615.5	1.000	1.000	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL4	1	9/16/16 9:16	15684-1.RAW	#####	1398.89			1398.1	2.271	2.271	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL5	1	9/16/16 9:27	15685-1.RAW	#####	2338.07			2337.3	3.796	3.796	ng/L	
Hq2700-1	RN	CAL	SEQ-ICV1	1	9/16/16 9:37	15686-1.RAW	#####	324.12			323.3	0.525	0.525	ng/L	
Hq2700-1	RN	CAL	SEQ-ICB1	1	9/16/16 9:48	15687-1.RAW	#####	7.16			6.4	0.010	0.010	ng/L	
Hq2700-1	RN	BLK	F609389-BLK1	1.25	9/16/16 10:23	15688-1.RAW	#####	7.41	1		6.6	0.013	0.017	ng/L	
Hq2700-1	RN	BLK	F609389-BLK2	1.25	9/16/16 10:33	15689-1.RAW	#####	4.48	1		3.7	0.007	0.009	ng/L	
Hq2700-1	RN	BLK	F609389-BLK3	1.25	9/16/16 10:44	15690-1.RAW	#####	6.16	1		5.4	0.011	0.014	ng/L	
Hq2700-1	RN	SAM	F609389-BS1	1.25	9/16/16 10:55	15691-1.RAW	#####	413.86	1		413.1	0.823	1.029	ng/L	
Hq2700-1	RN	SAM	F609389-BSD1	1.25	9/16/16 11:05	15692-1.RAW	#####	417.05	1		416.3	0.830	1.037	ng/L	
Hq2700-1	RN	SAM	F609389-DUP1	1.25	9/16/16 11:16	15693-1.RAW	#####	8.24	1		7.5	0.004	0.006	ng/L	
Hq2700-1	RN	SAM	F609389-MS1	1.25	9/16/16 11:26	15694-1.RAW	#####	472.73	1		472.0	0.942	1.178	ng/L	
Hq2700-1	RN	SAM	F609389-MSD1	1.25	9/16/16 11:37	15695-1.RAW	#####	484.71	1		483.9	0.966	1.208	ng/L	
Hq2700-1	RN	SAM	F609389-MS2	1.25	9/16/16 11:47	15696-1.RAW	#####	505.28	1		504.5	1.008	1.260	ng/L	
Hq2700-1	RN	SAM	F609389-MSD2	1.25	9/16/16 11:58	15697-1.RAW	#####	489.60	1		488.8	0.976	1.220	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV1	1	9/16/16 12:08	15698-1.RAW	#####	325.79			325.0	0.528	0.528	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB1	1	9/16/16 12:19	15699-1.RAW	#####	3.92			3.1	0.005	0.005	ng/L	
Hq2700-1	RN	SAM	1608361-46	1.25	9/16/16 12:29	15700-1.RAW	#####	79.42	1		78.6	0.148	0.185	ng/L	
Hq2700-1	RN	SAM	1608361-49	1.25	9/16/16 12:40	15701-1.RAW	#####	52.16	1		51.4	0.093	0.116	ng/L	
Hq2700-1	RN	SAM	1608361-53	1.25	9/16/16 12:50	15702-1.RAW	#####	25.70	1		24.9	0.040	0.050	ng/L	
Hq2700-1	RN	SAM	1608361-55	1.25	9/16/16 13:01	15703-1.RAW	#####	3.31	1		2.5	-0.005	-0.007	ng/L	
Hq2700-1	RN	SAM	1608517-01	1.25	9/16/16 13:11	15704-1.RAW	#####	41.00	1		40.2	0.071	0.088	ng/L	
Hq2700-1	RN	SAM	1608517-02	1.25	9/16/16 13:22	15705-1.RAW	#####	47.83	1		47.0	0.084	0.106	ng/L	
Hq2700-1	RN	SAM	1608517-03	1.25	9/16/16 13:32	15706-1.RAW	#####	48.39	1		47.6	0.086	0.107	ng/L	
Hq2700-1	RN	SAM	1608517-04	1.25	9/16/16 13:43	15707-1.RAW	#####	41.88	1		41.1	0.072	0.090	ng/L	
Hq2700-1	RN	SAM	1608517-05	1.25	9/16/16 13:53	15708-1.RAW	#####	56.23	1		55.4	0.101	0.127	ng/L	
Hq2700-1	RN	SAM	1608517-06	1.25	9/16/16 14:04	15709-1.RAW	#####	30.64	1		29.9	0.050	0.062	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV2	1	9/16/16 14:14	15710-1.RAW	#####	317.01			316.2	0.514	0.514	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB2	1	9/16/16 14:25	15711-1.RAW	#####	5.40			4.6	0.008	0.008	ng/L	
Hq2700-1	RN	SAM	1608566-01	1.25	9/16/16 14:35	15712-1.RAW	#####	2.49	1		1.7	-0.007	-0.009	ng/L	
Hq2700-1	RN	SAM	1608618-01	1.25	9/16/16 14:46	15713-1.RAW	#####	3.45	1		2.7	-0.005	-0.006	ng/L	
Hq2700-1	RN	SAM	1608618-02	1.25	9/16/16 14:56	15714-1.RAW	#####	845.80	1		845.0	1.695	2.119	ng/L	
Hq2700-1	RN	SAM	1608618-03	1.25	9/16/16 15:07	15715-1.RAW	#####	34.82	1		34.0	0.058	0.073	ng/L	
Hq2700-1	RN	SAM	1608618-04	1.25	9/16/16 15:17	15716-1.RAW	#####	29.97	1		29.2	0.048	0.060	ng/L	
Hq2700-1	RN	SAM	1608618-05	1.25	9/16/16 15:28	15717-1.RAW	#####	35.05	1		34.3	0.059	0.073	ng/L	
Hq2700-1	RN	SAM	1608618-06	1.25	9/16/16 15:38	15718-1.RAW	#####	823.79	1		823.0	1.651	2.063	ng/L	
Hq2700-1	RN	SAM	1608618-07	1.25	9/16/16 15:49	15719-1.RAW	#####	901.21	1		900.4	1.807	2.259	ng/L	
Hq2700-1	RN	SAM	1608618-08	1.25	9/16/16 15:59	15720-1.RAW	#####	10.05	1		9.3	0.008	0.010	ng/L	
Hq2700-1	RN	SAM	1608663-01	1.25	9/16/16 16:10	15721-1.RAW	#####	4.42	1		3.2	-0.004	-0.005	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV3	1	9/16/16 16:20	15722-1.RAW	#####	298.44			297.7	0.483	0.483	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB3	1	9/16/16 16:31	15723-1.RAW	#####	3.13			2.4	0.004	0.004	ng/L	
Hq2700-1	RN	SAM	1608323-01	2500	9/16/16 16:41	15724-1.RAW	#####	4.54		X	3.8	0.008	18.991	ng/L	
Hq2700-1	RN	SAM	1608323-07	2500	9/16/16 16:52	15725-1.RAW	#####	15.75		X	15.0	0.030	75.528	ng/L	

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hq2700-1	RN	SAM	1608361-05	1	9/16/16 17:02	15726-1.RAW	#####	19.98		X	19.2	0.039	0.039	ng/L	
Hq2700-1	RN	BLK	F609314-BLK1	1	9/16/16 17:13	15727-1.RAW	#####	23.32		X	22.5	0.046	0.046	ng/L	
Hq2700-1	RN	BLK	F609314-BLK2	1	9/16/16 17:23	15728-1.RAW	#####	20.99		X	20.2	0.041	0.041	ng/L	
Hq2700-1	RN	BLK	F609314-BLK3	10	9/16/16 17:34	15729-1.RAW	#####	24.88		X	24.1	0.049	0.486	ng/L	
Hq2700-1	RN	SAM	F609314-BS1	10	9/16/16 17:44	15730-1.RAW	#####	598.85		X	598.1	1.207	12.073	ng/L	
Hq2700-1	RN	SAM	F609314-BSD1	1	9/16/16 17:55	15731-1.RAW	#####	611.95		X	611.2	1.234	1.234	ng/L	
Hq2700-1	RN	SAM	1608072-01	1	9/16/16 18:05	15732-1.RAW	#####	1167.99		X	1167.2	2.356	2.356	ng/L	
Hq2700-1	RN	SAM	1608361-06	1	9/16/16 18:16	15733-1.RAW	#####	100.49		X	99.7	0.201	0.201	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV4	1	9/16/16 18:26	15734-1.RAW	#####	316.04			315.3	0.512	0.512	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB4	1	9/16/16 18:37	15735-1.RAW	#####	5.14			4.4	0.007	0.007	ng/L	
Hq2700-1	RN	SAM	1608323-01RE1	5	9/16/16 18:48	15736-1.RAW	#####	408.12		X	407.3	0.822	4.111	ng/L	
Hq2700-1	RN	SAM	1608323-02	5	9/16/16 18:58	15737-1.RAW	#####	385.87		X	385.1	0.777	3.887	ng/L	
Hq2700-1	RN	SAM	1608323-03	5	9/16/16 19:09	15738-1.RAW	#####	303.49		X	302.7	0.611	3.055	ng/L	
Hq2700-1	RN	SAM	1608323-04	5	9/16/16 19:19	15739-1.RAW	#####	202.21		X	201.4	0.407	2.033	ng/L	
Hq2700-1	RN	SAM	1608323-05	5	9/16/16 19:30	15740-1.RAW	#####	217.37		X	216.6	0.437	2.186	ng/L	
Hq2700-1	RN	SAM	1608323-06	5	9/16/16 19:40	15741-1.RAW	#####	187.50		X	186.7	0.377	1.885	ng/L	
Hq2700-1	RN	SAM	1608323-07RE1	5	9/16/16 19:51	15742-1.RAW	#####	6401.20		X	6400.4	12.920	64.599	ng/L	
Hq2700-1	RN	SAM	1608323-08	5	9/16/16 20:01	15743-1.RAW	#####	3915.93		X	3915.2	7.903	39.516	ng/L	
Hq2700-1	RN	SAM	1608323-09	5	9/16/16 20:12	15744-1.RAW	#####	46.29		X	45.5	0.092	0.459	ng/L	
Hq2700-1	RN	SAM	1608323-10	5	9/16/16 20:22	15745-1.RAW	#####	8790.83		X	8790.1	17.744	88.718	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV5	1	9/16/16 20:33	15746-1.RAW	#####	364.44			363.7	0.591	0.591	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB5	1	9/16/16 20:43	15747-1.RAW	#####	22.37			21.6	0.035	0.035	ng/L	
Hq2700-1	RN	SAM	1608323-11	1	9/16/16 20:54	15748-1.RAW	#####	3962.62		X	3961.8	7.997	7.997	ng/L	
Hq2700-1	RN	SAM	1608323-12	1	9/16/16 21:04	15749-1.RAW	#####	4963.86		X	4963.1	10.018	10.018	ng/L	
Hq2700-1	RN	SAM	1608361-07	1	9/16/16 21:15	15750-1.RAW	#####	106.16		X	105.4	0.213	0.213	ng/L	
Hq2700-1	RN	SAM	1608361-08	1	9/16/16 21:25	15751-1.RAW	#####	50.11		X	49.3	0.100	0.100	ng/L	
Hq2700-1	RN	SAM	1608361-09	1	9/16/16 21:36	15752-1.RAW	#####	14527.10		X	14526.3	29.323	29.323	ng/L	
Hq2700-1	RN	SAM	1608361-10	1	9/16/16 21:46	15753-1.RAW	#####	120.45		X	119.7	0.242	0.242	ng/L	
Hq2700-1	RN	SAM	1608361-11	1	9/16/16 21:57	15754-1.RAW	#####	65.56		X	64.8	0.131	0.131	ng/L	
Hq2700-1	RN	SAM	F609314-DUP1	1	9/16/16 22:07	15755-1.RAW	#####	684.46		X	683.7	1.380	1.380	ng/L	
Hq2700-1	RN	SAM	F609314-MS1	10	9/16/16 22:18	15756-1.RAW	#####	817.78		X	817.0	1.649	16.492	ng/L	
Hq2700-1	RN	SAM	F609314-MSD1	10	9/16/16 22:28	15757-1.RAW	#####	860.02		X	859.2	1.734	17.345	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV6	1	9/16/16 22:39	15758-1.RAW	#####	433.08			432.3	0.702	0.702	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB6	1	9/16/16 22:49	15759-1.RAW	#####	13.38			12.6	0.020	0.020	ng/L	
Hq2700-1	RN	SAM	F609314-MS2	10	9/16/16 23:00	15760-1.RAW	#####	695.07		X	694.3	1.401	14.015	ng/L	
Hq2700-1	RN	SAM	F609314-MSD2	10	9/16/16 23:10	15761-1.RAW	#####	1004.00		X	1003.2	2.025	20.251	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV7	1	9/16/16 23:21	15762-1.RAW	#####	377.25			376.5	0.611	0.611	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB7	1	9/16/16 23:31	15763-1.RAW	#####	9.60			8.8	0.014	0.014	ng/L	



Frontier Global Sciences

MMHg27001-160916-1 SOLIDS

Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: September 16, 2016

Instrument #: Hg2700-1

LIMS Sequence #: 6116012

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	28.56 units	571.15	27.78 units	555.55	90.2 %Rec
SEQ-CAL2	1	0.20 ng/L	125.59 units	627.96	124.81 units	624.06	101.4 %Rec
SEQ-CAL3	1	1.00 ng/L	616.30 units	616.30	615.52 units	615.52	100.0 %Rec
SEQ-CAL4	1	2.00 ng/L	1398.89 units	699.44	1398.11 units	699.05	113.5 %Rec
SEQ-CAL5	1	4.00 ng/L	2338.07 units	584.52	2337.29 units	584.32	94.9 %Rec
SEQ-CAL6	0						
SEQ-CAL7	0						
SEQ-CAL8	0						
SEQ-CAL9	0						

Corr. Mean RF
615.70

Corr. St Dev RF
+/- 53.90

Corr. RSD CF
8.8% RSD

Uncorr. Mean RF
619.87

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.78 units		0.00 ng/L	#VALUE!

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.036 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: BC 9/19/16

Instrument	Analyst	Sample		Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB		InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber							Correction?	RESP				
Hg2700-1	RN	CAL	SEQ-IBL1	1	9/16/16 8:34	15680-1.RAW	8:34:27	0.78				0.0	0.000	0.000	ng/L
Hg2700-1	RN	CAL	SEQ-CAL1	1	9/16/16 8:44	15681-1.RAW	8:44:57	28.56				27.8	0.045	0.045	ng/L
Hg2700-1	RN	CAL	SEQ-CAL2	1	9/16/16 8:55	15682-1.RAW	8:55:28	125.59				124.8	0.203	0.203	ng/L
Hg2700-1	RN	CAL	SEQ-CAL3	1	9/16/16 9:05	15683-1.RAW	9:05:59	616.30				615.5	1.000	1.000	ng/L
Hg2700-1	RN	CAL	SEQ-CAL4	1	9/16/16 9:16	15684-1.RAW	9:16:30	1398.89				1398.1	2.271	2.271	ng/L
Hg2700-1	RN	CAL	SEQ-CAL5	1	9/16/16 9:27	15685-1.RAW	9:27:00	2338.07				2337.3	3.796	3.796	ng/L
Hg2700-1	RN	CAL	SEQ-ICV1	1	9/16/16 9:37	15686-1.RAW	9:37:31	324.12				323.3	0.525	0.525	ng/L
Hg2700-1	RN	CAL	SEQ-ICB1	1	9/16/16 9:48	15687-1.RAW	9:48:02	7.16				6.4	0.010	0.010	ng/L
Hg2700-1	RN	BLK	F609389-BLK1	1.25	9/16/16 10:23	15688-1.RAW	10:23:30	7.41			X	6.6	0.011	0.013	ng/L
Hg2700-1	RN	BLK	F609389-BLK2	1.25	9/16/16 10:33	15689-1.RAW	10:33:59	4.48		X		3.7	0.006	0.008	ng/L
Hg2700-1	RN	BLK	F609389-BLK3	1.25	9/16/16 10:44	15690-1.RAW	10:44:30	6.16		X		5.4	0.009	0.011	ng/L
Hg2700-1	RN	SAM	F609389-BS1	1.25	9/16/16 10:55	15691-1.RAW	10:55:00	413.86		X		413.1	0.671	0.839	ng/L
Hg2700-1	RN	SAM	F609389-BSD1	1.25	9/16/16 11:05	15692-1.RAW	11:05:31	417.05		X		416.3	0.676	0.845	ng/L
Hg2700-1	RN	SAM	F609389-DUP1	1.25	9/16/16 11:16	15693-1.RAW	11:16:02	8.24		X		7.5	0.012	0.015	ng/L
Hg2700-1	RN	SAM	F609389-MS1	1.25	9/16/16 11:26	15694-1.RAW	11:26:32	472.73		X		472.0	0.767	0.958	ng/L
Hg2700-1	RN	SAM	F609389-MSD1	1.25	9/16/16 11:37	15695-1.RAW	11:37:03	484.71		X		483.9	0.786	0.982	ng/L
Hg2700-1	RN	SAM	F609389-MS2	1.25	9/16/16 11:47	15696-1.RAW	11:47:34	505.28		X		504.5	0.819	1.024	ng/L
Hg2700-1	RN	SAM	F609389-MSD2	1.25	9/16/16 11:58	15697-1.RAW	11:58:04	489.60		X		488.8	0.794	0.992	ng/L
Hg2700-1	RN	CAL	SEQ-CCV1	1	9/16/16 12:08	15698-1.RAW	12:08:35	325.79				325.0	0.528	0.528	ng/L
Hg2700-1	RN	CAL	SEQ-CCB1	1	9/16/16 12:19	15699-1.RAW	12:19:06	3.92				3.1	0.005	0.005	ng/L
Hg2700-1	RN	SAM	1608361-46	1.25	9/16/16 12:29	15700-1.RAW	12:29:36	79.42		X		78.6	0.128	0.160	ng/L
Hg2700-1	RN	SAM	1608361-49	1.25	9/16/16 12:40	15701-1.RAW	12:40:07	52.16		X		51.4	0.083	0.104	ng/L
Hg2700-1	RN	SAM	1608361-53	1.25	9/16/16 12:50	15702-1.RAW	12:50:38	25.70		X		24.9	0.040	0.051	ng/L
Hg2700-1	RN	SAM	1608361-55	1.25	9/16/16 13:01	15703-1.RAW	13:01:08	3.31		X		2.5	0.004	0.005	ng/L
Hg2700-1	RN	SAM	1608517-01	1.25	9/16/16 13:11	15704-1.RAW	13:11:39	41.00		X		40.2	0.065	0.082	ng/L
Hg2700-1	RN	SAM	1608517-02	1.25	9/16/16 13:22	15705-1.RAW	13:22:10	47.83		X		47.0	0.076	0.096	ng/L
Hg2700-1	RN	SAM	1608517-03	1.25	9/16/16 13:32	15706-1.RAW	13:32:40	48.39		X		47.6	0.077	0.097	ng/L
Hg2700-1	RN	SAM	1608517-04	1.25	9/16/16 13:43	15707-1.RAW	13:43:11	41.88		X		41.1	0.067	0.083	ng/L
Hg2700-1	RN	SAM	1608517-05	1.25	9/16/16 13:53	15708-1.RAW	13:53:42	56.23		X		55.4	0.090	0.113	ng/L
Hg2700-1	RN	SAM	1608517-06	1.25	9/16/16 14:04	15709-1.RAW	14:04:12	30.64		X		29.9	0.048	0.061	ng/L
Hg2700-1	RN	CAL	SEQ-CCV2	1	9/16/16 14:14	15710-1.RAW	14:14:43	317.01				316.2	0.514	0.514	ng/L
Hg2700-1	RN	CAL	SEQ-CCB2	1	9/16/16 14:25	15711-1.RAW	14:25:14	5.40				4.6	0.008	0.008	ng/L
Hg2700-1	RN	SAM	1608566-01	1.25	9/16/16 14:35	15712-1.RAW	14:35:44	2.49		X		1.7	0.003	0.003	ng/L
Hg2700-1	RN	SAM	1608618-01	1.25	9/16/16 14:46	15713-1.RAW	14:46:15	3.45		X		2.7	0.004	0.005	ng/L
Hg2700-1	RN	SAM	1608618-02	1.25	9/16/16 14:56	15714-1.RAW	14:56:46	845.80		X		845.0	1.372	1.716	ng/L
Hg2700-1	RN	SAM	1608618-03	1.25	9/16/16 15:07	15715-1.RAW	15:07:16	34.82		X		34.0	0.055	0.069	ng/L
Hg2700-1	RN	SAM	1608618-04	1.25	9/16/16 15:17	15716-1.RAW	15:17:47	29.97		X		29.2	0.047	0.059	ng/L
Hg2700-1	RN	SAM	1608618-05	1.25	9/16/16 15:28	15717-1.RAW	15:28:18	35.05		X		34.3	0.056	0.070	ng/L
Hg2700-1	RN	SAM	1608618-06	1.25	9/16/16 15:38	15718-1.RAW	15:38:48	823.79		X		823.0	1.337	1.671	ng/L
Hg2700-1	RN	SAM	1608618-07	1.25	9/16/16 15:49	15719-1.RAW	15:49:19	901.21		X		900.4	1.462	1.828	ng/L
Hg2700-1	RN	SAM	1608618-08	1.25	9/16/16 15:59	15720-1.RAW	15:59:50	10.05		X		9.3	0.015	0.019	ng/L
Hg2700-1	RN	SAM	1608663-01	1.25	9/16/16 16:10	15721-1.RAW	16:10:20	4.02		X		3.2	0.005	0.007	ng/L
Hg2700-1	RN	CAL	SEQ-CCV3	1	9/16/16 16:20	15722-1.RAW	16:20:51	298.44				297.7	0.483	0.483	ng/L
Hg2700-1	RN	CAL	SEQ-CCB3	1	9/16/16 16:31	15723-1.RAW	16:31:22	3.13				2.4	0.004	0.004	ng/L
Hg2700-1	RN	SAM	1608323-01	2500	9/16/16 16:41	15724-1.RAW	16:41:53	4.54		1		3.8	0.006	15.244	ng/L
Hg2700-1	RN	SAM	1608323-07	2500	9/16/16 16:52	15725-1.RAW	16:52:23	15.75		1		15.0	0.024	60.734	ng/L

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	RN	SAM	1608361-05	1	9/16/16 17:02	15726-1.RAW	17:02:54	19.98	1		19.2	-0.005	-0.005	ng/L	
Hg2700-1	RN	BLK	F609314-BLK1	1	9/16/16 17:13	15727-1.RAW	17:13:25	23.32	1		22.5	0.037	0.037	ng/L	
Hg2700-1	RN	BLK	F609314-BLK2	1	9/16/16 17:23	15728-1.RAW	17:23:55	20.99	1		20.2	0.033	0.033	ng/L	
Hg2700-1	RN	BLK	F609314-BLK3	1	9/16/16 17:34	15729-1.RAW	17:34:26	24.88	1		24.1	0.039	0.039	ng/L	
Hg2700-1	RN	SAM	F609314-BS1	10	9/16/16 17:44	15730-1.RAW	17:44:57	598.85	1		598.1	0.968	9.678	ng/L	
Hg2700-1	RN	SAM	F609314-BSD1	10	9/16/16 17:55	15731-1.RAW	17:55:27	611.95	1		611.2	0.989	9.890	ng/L	
Hg2700-1	RN	SAM	1608072-01	1	9/16/16 18:05	15732-1.RAW	18:05:58	1167.99	1		1167.2	1.860	1.860	ng/L	
Hg2700-1	RN	SAM	1608361-06	1	9/16/16 18:16	15733-1.RAW	18:16:29	100.49	1		99.7	0.126	0.126	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV4	1	9/16/16 18:26	15734-1.RAW	18:26:59	316.04			315.3	0.512	0.512	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB4	1	9/16/16 18:37	15735-1.RAW	18:37:30	5.14			4.4	0.007	0.007	ng/L	
Hg2700-1	RN	SAM	1608323-01RE1	5	9/16/16 18:48	15736-1.RAW	18:48:01	408.12	1		407.3	0.654	3.272	ng/L	
Hg2700-1	RN	SAM	1608323-02	5	9/16/16 18:58	15737-1.RAW	18:58:31	385.87	1		385.1	0.618	3.091	ng/L	
Hg2700-1	RN	SAM	1608323-03	5	9/16/16 19:09	15738-1.RAW	19:09:02	303.49	1		302.7	0.484	2.422	ng/L	
Hg2700-1	RN	SAM	1608323-04	5	9/16/16 19:19	15739-1.RAW	19:19:33	202.21	1		201.4	0.320	1.600	ng/L	
Hg2700-1	RN	SAM	1608323-05	5	9/16/16 19:30	15740-1.RAW	19:30:03	217.37	1		216.6	0.345	1.723	ng/L	
Hg2700-1	RN	SAM	1608323-06	5	9/16/16 19:40	15741-1.RAW	19:40:35	187.50	1		186.7	0.296	1.480	ng/L	
Hg2700-1	RN	SAM	1608323-07RE1	5	9/16/16 19:51	15742-1.RAW	19:51:06	6401.20	1		6400.4	10.388	51.940	ng/L	
Hg2700-1	RN	SAM	1608323-08	5	9/16/16 20:01	15743-1.RAW	20:01:37	3915.93	1		3915.2	6.352	31.758	ng/L	
Hg2700-1	RN	SAM	1608323-09	5	9/16/16 20:12	15744-1.RAW	20:12:07	46.29	1		45.5	0.067	0.333	ng/L	
Hg2700-1	RN	SAM	1608323-10	5	9/16/16 20:22	15745-1.RAW	20:22:38	8790.83	1		8790.1	14.269	71.346	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV5	1	9/16/16 20:33	15746-1.RAW	20:33:09	364.44			363.7	0.591	0.591	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB5	1	9/16/16 20:43	15747-1.RAW	20:43:39	22.37			21.6	0.035	0.035	ng/L	
Hg2700-1	RN	SAM	1608323-11	1	9/16/16 20:54	15748-1.RAW	20:54:10	3962.62	1		3961.8	6.398	6.398	ng/L	
Hg2700-1	RN	SAM	1608323-12	1	9/16/16 21:04	15749-1.RAW	21:04:41	4963.86	1		4963.1	8.025	8.025	ng/L	
Hg2700-1	RN	SAM	1608361-07	1	9/16/16 21:15	15750-1.RAW	21:15:11	106.16	1		105.4	0.135	0.135	ng/L	
Hg2700-1	RN	SAM	1608361-08	1	9/16/16 21:25	15751-1.RAW	21:25:42	50.11	1		49.3	0.044	0.044	ng/L	
Hg2700-1	RN	SAM	1608361-09	1	9/16/16 21:36	15752-1.RAW	21:36:13	14527.10	1		14526.3	23.557	23.557	ng/L	
Hg2700-1	RN	SAM	1608361-10	1	9/16/16 21:46	15753-1.RAW	21:46:43	120.45	1		119.7	0.158	0.158	ng/L	
Hg2700-1	RN	SAM	1608361-11	1	9/16/16 21:57	15754-1.RAW	21:57:14	65.56	1		64.8	0.069	0.069	ng/L	
Hg2700-1	RN	SAM	F609314-DUP1	1	9/16/16 22:07	15755-1.RAW	22:07:45	684.46	1		683.7	1.074	1.074	ng/L	
Hg2700-1	RN	SAM	F609314-MS1	10	9/16/16 22:18	15756-1.RAW	22:18:16	817.78	1		817.0	1.323	13.233	ng/L	
Hg2700-1	RN	SAM	F609314-MSD1	10	9/16/16 22:28	15757-1.RAW	22:28:46	860.02	1		859.2	1.392	13.919	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV6	1	9/16/16 22:39	15758-1.RAW	22:39:17	433.08			432.3	0.702	0.702	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB6	1	9/16/16 22:49	15759-1.RAW	22:49:48	13.38			12.6	0.020	0.020	ng/L	
Hg2700-1	RN	SAM	F609314-MS2	10	9/16/16 23:00	15760-1.RAW	23:00:18	695.07	1		694.3	1.124	11.240	ng/L	
Hg2700-1	RN	SAM	F609314-MSD2	10	9/16/16 23:10	15761-1.RAW	23:10:49	1004.00	1		1003.2	1.626	16.258	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV7	1	9/16/16 23:21	15762-1.RAW	23:21:20	377.25			376.5	0.611	0.611	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB7	1	9/16/16 23:31	15763-1.RAW	23:31:50	9.60			8.8	0.014	0.014	ng/L	



Frontier Global Sciences

MMHg27001-160916-1 WATERS

Analysis Datasheet for Methyl Mercury in Waters

Date of Analysis: September 16, 2016

Instrument #: Hg2700-1

LIMS Sequence #: 6I16011

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	28.56 units	571.15	27.78 units	555.55	90.2 %Rec
SEQ-CAL2	1	0.20 ng/L	125.59 units	627.96	124.81 units	624.06	101.4 %Rec
SEQ-CAL3	1	1.00 ng/L	616.30 units	616.30	615.52 units	615.52	100.0 %Rec
SEQ-CAL4	1	2.00 ng/L	1398.89 units	699.44	1398.11 units	699.05	113.5 %Rec
SEQ-CAL5	1	4.00 ng/L	2338.07 units	584.52	2337.29 units	584.32	94.9 %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	Eff Factor
615.70	+/- 53.90	8.8% RSD	619.87	0.8046

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.78 units		0.00 ng/L	#VALUE!

Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.013 ng/L	±0.004
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	

BC 9-19-16

MDN Only

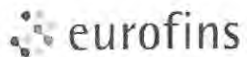
SEQ-CAL1
 SEQ-CAL2
 SEQ-CAL3
 SEQ-CAL4
 SEQ-CAL5
 SEQ-CAL6 NA
 SEQ-CAL7 NA
 SEQ-CAL8 NA
 SEQ-CAL9 NA
 SEQ-ICV/CCV
 Acetate Buffer
 Ethylating Agent

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hq2700-1	RN	CAL	SEQ-JBL1	1	9/16/16 8:34	15680-1.RAW	8:34	0.28			0.0	0.000	0.000	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL1	1	9/16/16 8:44	15681-1.RAW	#####	28.56			27.8	0.045	0.045	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL2	1	9/16/16 8:55	15682-1.RAW	#####	125.59			124.8	0.203	0.203	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL3	1	9/16/16 9:05	15683-1.RAW	#####	616.30			615.5	1.000	1.000	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL4	1	9/16/16 9:16	15684-1.RAW	#####	1398.89			1398.1	2.271	2.271	ng/L	
Hq2700-1	RN	CAL	SEQ-CAL5	1	9/16/16 9:27	15685-1.RAW	#####	2338.07			2337.3	3.796	3.796	ng/L	
Hq2700-1	RN	CAL	SEQ-1CV1	1	9/16/16 9:37	15686-1.RAW	#####	324.12			323.3	0.525	0.525	ng/L	
Hq2700-1	RN	CAL	SEQ-1CB1	1	9/16/16 9:48	15687-1.RAW	#####	7.16			6.4	0.010	0.010	ng/L	
Hq2700-1	RN	BLK	F609389-BLK1	1.25	9/16/16 10:23	15688-1.RAW	#####	7.41	1		6.6	0.013	0.017	ng/L	
Hq2700-1	RN	BLK	F609389-BLK2	1.25	9/16/16 10:33	15689-1.RAW	#####	4.48	1		3.7	0.007	0.009	ng/L	
Hq2700-1	RN	BLK	F609389-BLK3	1.25	9/16/16 10:44	15690-1.RAW	#####	6.23	1		5.5	0.011	0.014	ng/L	
Hq2700-1	RN	SAM	F609389-BS1	1.25	9/16/16 10:55	15691-1.RAW	#####	413.86	1		413.1	0.823	1.029	ng/L	
Hq2700-1	RN	SAM	F609389-BSD1	1.25	9/16/16 11:05	15692-1.RAW	#####	417.05	1		416.3	0.830	1.037	ng/L	
Hq2700-1	RN	SAM	F609389-DUP1	1.25	9/16/16 11:16	15693-1.RAW	#####	8.24	1		7.5	0.004	0.006	ng/L	
Hq2700-1	RN	SAM	F609389-MS1	1.25	9/16/16 11:26	15694-1.RAW	#####	473.18	1		472.4	0.943	1.179	ng/L	
Hq2700-1	RN	SAM	F609389-MSD1	1.25	9/16/16 11:37	15695-1.RAW	#####	484.71	1		483.9	0.966	1.208	ng/L	
Hq2700-1	RN	SAM	F609389-MS2	1.25	9/16/16 11:47	15696-1.RAW	#####	505.28	1		504.5	1.008	1.260	ng/L	
Hq2700-1	RN	SAM	F609389-MSD2	1.25	9/16/16 11:58	15697-1.RAW	#####	489.60	1		488.8	0.976	1.220	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV1	1	9/16/16 12:08	15698-1.RAW	#####	325.79			325.0	0.528	0.528	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB1	1	9/16/16 12:19	15699-1.RAW	#####	3.92			3.1	0.005	0.005	ng/L	
Hq2700-1	RN	SAM	1608361-46	1.25	9/16/16 12:29	15700-1.RAW	#####	79.42	1		78.6	0.148	0.185	ng/L	
Hq2700-1	RN	SAM	1608361-49	1.25	9/16/16 12:40	15701-1.RAW	#####	52.16	1		51.4	0.093	0.116	ng/L	
Hq2700-1	RN	SAM	1608361-53	1.25	9/16/16 12:50	15702-1.RAW	#####	25.66	1		24.9	0.040	0.050	ng/L	
Hq2700-1	RN	SAM	1608361-55	1.25	9/16/16 13:01	15703-1.RAW	#####	3.31	1		2.5	-0.006	-0.007	ng/L	
Hq2700-1	RN	SAM	1608517-01	1.25	9/16/16 13:11	15704-1.RAW	#####	41.00	1		40.2	0.071	0.088	ng/L	
Hq2700-1	RN	SAM	1608517-02	1.25	9/16/16 13:22	15705-1.RAW	#####	47.83	1		47.0	0.084	0.105	ng/L	
Hq2700-1	RN	SAM	1608517-03	1.25	9/16/16 13:32	15706-1.RAW	#####	48.39	1		47.6	0.085	0.107	ng/L	
Hq2700-1	RN	SAM	1608517-04	1.25	9/16/16 13:43	15707-1.RAW	#####	41.88	1		41.1	0.072	0.090	ng/L	
Hq2700-1	RN	SAM	1608517-05	1.25	9/16/16 13:53	15708-1.RAW	#####	56.23	1		55.4	0.101	0.127	ng/L	
Hq2700-1	RN	SAM	1608517-06	1.25	9/16/16 14:04	15709-1.RAW	#####	30.64	1		29.9	0.050	0.062	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV2	1	9/16/16 14:14	15710-1.RAW	#####	317.01			316.2	0.514	0.514	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB2	1	9/16/16 14:25	15711-1.RAW	#####	5.40			4.6	0.008	0.008	ng/L	
Hq2700-1	RN	SAM	1608566-01	1.25	9/16/16 14:35	15712-1.RAW	#####	2.49	1		1.7	-0.007	-0.009	ng/L	
Hq2700-1	RN	SAM	1608618-01	1.25	9/16/16 14:46	15713-1.RAW	#####	3.45	1		2.7	-0.005	-0.007	ng/L	
Hq2700-1	RN	SAM	1608618-02	1.25	9/16/16 14:56	15714-1.RAW	#####	845.80	1		845.0	1.695	2.119	ng/L	
Hq2700-1	RN	SAM	1608618-03	1.25	9/16/16 15:07	15715-1.RAW	#####	34.82	1		34.0	0.058	0.073	ng/L	
Hq2700-1	RN	SAM	1608618-04	1.25	9/16/16 15:17	15716-1.RAW	#####	29.97	1		29.2	0.048	0.060	ng/L	
Hq2700-1	RN	SAM	1608618-05	1.25	9/16/16 15:28	15717-1.RAW	#####	35.05	1		34.3	0.059	0.073	ng/L	
Hq2700-1	RN	SAM	1608618-06	1.25	9/16/16 15:38	15718-1.RAW	#####	823.79	1		823.0	1.651	2.063	ng/L	
Hq2700-1	RN	SAM	1608618-07	1.25	9/16/16 15:49	15719-1.RAW	#####	901.22	1		900.4	1.807	2.259	ng/L	
Hq2700-1	RN	SAM	1608618-08	1.25	9/16/16 15:59	15720-1.RAW	#####	10.05	1		9.3	0.008	0.010	ng/L	
Hq2700-1	RN	SAM	1608663-01	1.25	9/16/16 16:10	15721-1.RAW	#####	4.02	1		3.2	-0.004	-0.005	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV3	1	9/16/16 16:20	15722-1.RAW	#####	298.84			298.1	0.484	0.484	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB3	1	9/16/16 16:31	15723-1.RAW	#####	3.13			2.4	0.004	0.004	ng/L	
Hq2700-1	RN	SAM	1608323-01	2500	9/16/16 16:41	15724-1.RAW	#####	4.54		X	3.8	0.008	18.991	ng/L	
Hq2700-1	RN	SAM	1608323-07	2500	9/16/16 16:52	15725-1.RAW	#####	15.75		X	15.0	0.030	75.528	ng/L	

BC 9-11-16

Instrument	Analyst	Sample Type	LabNumber	Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hq2700-1	RN	BLK	F609314-BLK1	1	9/16/16 17:02	15726-1.RAW	#####	19.98		X	19.2	0.039	0.039	ng/L	
Hq2700-1	RN	BLK	F609314-BLK2	1	9/16/16 17:13	15727-1.RAW	#####	23.32		X	22.5	0.046	0.046	ng/L	
Hq2700-1	RN	BLK	F609314-BLK3	1	9/16/16 17:23	15728-1.RAW	#####	20.99		X	20.2	0.041	0.041	ng/L	
Hq2700-1	RN	SAM	F609314-BS1	10	9/16/16 17:34	15729-1.RAW	#####	24.88		X	24.1	0.049	0.486	ng/L	
Hq2700-1	RN	SAM	F609314-BSD1	10	9/16/16 17:44	15730-1.RAW	#####	598.85		X	598.1	1.207	12.073	ng/L	
Hq2700-1	RN	SAM	1608072-01	1	9/16/16 17:55	15731-1.RAW	#####	611.95		X	611.2	1.234	1.234	ng/L	
Hq2700-1	RN	SAM	1608361-05	1	9/16/16 18:05	15732-1.RAW	#####	1167.99		X	1167.2	2.356	2.356	ng/L	
Hq2700-1	RN	SAM	1608361-06	1	9/16/16 18:16	15733-1.RAW	#####	100.49		X	99.7	0.201	0.201	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV4	1	9/16/16 18:26	15734-1.RAW	#####	316.04			315.3	0.512	0.512	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB4	1	9/16/16 18:37	15735-1.RAW	#####	5.14			4.4	0.007	0.007	ng/L	
Hq2700-1	RN	SAM	1608323-01RE1	5	9/16/16 18:48	15736-1.RAW	#####	410.09		X	409.3	0.826	4.131	ng/L	
Hq2700-1	RN	SAM	1608323-02	5	9/16/16 18:58	15737-1.RAW	#####	385.87		X	385.1	0.777	3.887	ng/L	
Hq2700-1	RN	SAM	1608323-03	5	9/16/16 19:09	15738-1.RAW	#####	303.49		X	302.7	0.611	3.055	ng/L	
Hq2700-1	RN	SAM	1608323-04	5	9/16/16 19:19	15739-1.RAW	#####	202.21		X	201.4	0.407	2.033	ng/L	
Hq2700-1	RN	SAM	1608323-05	5	9/16/16 19:30	15740-1.RAW	#####	217.37		X	216.6	0.437	2.186	ng/L	
Hq2700-1	RN	SAM	1608323-06	5	9/16/16 19:40	15741-1.RAW	#####	187.50		X	186.7	0.377	1.885	ng/L	
Hq2700-1	RN	SAM	1608323-07RE1	5	9/16/16 19:51	15742-1.RAW	#####	6401.20		X	6400.4	12.920	64.599	ng/L	
Hq2700-1	RN	SAM	1608323-08	5	9/16/16 20:01	15743-1.RAW	#####	3916.30		X	3915.5	7.904	39.519	ng/L	
Hq2700-1	RN	SAM	1608323-09	5	9/16/16 20:12	15744-1.RAW	#####	46.29		X	45.5	0.092	0.459	ng/L	
Hq2700-1	RN	SAM	1608323-10	5	9/16/16 20:22	15745-1.RAW	#####	8790.83		X	8790.1	17.744	88.718	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV5	1	9/16/16 20:33	15746-1.RAW	#####	364.44			363.7	0.591	0.591	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB5	1	9/16/16 20:43	15747-1.RAW	#####	22.37			21.6	0.035	0.035	ng/L	
Hq2700-1	RN	SAM	1608323-11	1	9/16/16 20:54	15748-1.RAW	#####	3962.62		X	3961.8	7.997	7.997	ng/L	
Hq2700-1	RN	SAM	1608323-12	1	9/16/16 21:04	15749-1.RAW	#####	4963.86		X	4963.1	10.018	10.018	ng/L	
Hq2700-1	RN	SAM	1608361-07	1	9/16/16 21:15	15750-1.RAW	#####	106.16		X	105.4	0.213	0.213	ng/L	
Hq2700-1	RN	SAM	1608361-08	1	9/16/16 21:25	15751-1.RAW	#####	49.88		X	49.1	0.099	0.099	ng/L	
Hq2700-1	RN	SAM	1608361-09	1	9/16/16 21:36	15752-1.RAW	#####	14527.31		X	14526.5	29.323	29.323	ng/L	
Hq2700-1	RN	SAM	1608361-10	1	9/16/16 21:46	15753-1.RAW	#####	120.45		X	119.7	0.242	0.242	ng/L	
Hq2700-1	RN	SAM	1608361-11	1	9/16/16 21:57	15754-1.RAW	#####	66.31		X	65.5	0.132	0.132	ng/L	
Hq2700-1	RN	SAM	F609314-DUP1	1	9/16/16 22:07	15755-1.RAW	#####	684.46		X	683.7	1.380	1.380	ng/L	
Hq2700-1	RN	SAM	F609314-MS1	10	9/16/16 22:18	15756-1.RAW	#####	817.78		X	817.0	1.649	16.492	ng/L	
Hq2700-1	RN	SAM	F609314-MSD1	10	9/16/16 22:28	15757-1.RAW	#####	860.02		X	859.2	1.734	17.345	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV6	1	9/16/16 22:39	15758-1.RAW	#####	433.08			432.3	0.702	0.702	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB6	1	9/16/16 22:49	15759-1.RAW	#####	13.38			12.6	0.020	0.020	ng/L	
Hq2700-1	RN	SAM	F609314-MS2	10	9/16/16 23:00	15760-1.RAW	#####	695.07		X	694.3	1.401	14.015	ng/L	
Hq2700-1	RN	SAM	F609314-MSD2	10	9/16/16 23:10	15761-1.RAW	#####	1004.00		X	1003.2	2.025	20.251	ng/L	
Hq2700-1	RN	CAL	SEQ-CCV7	1	9/16/16 23:21	15762-1.RAW	#####	377.25			376.5	0.611	0.611	ng/L	
Hq2700-1	RN	CAL	SEQ-CCB7	1	9/16/16 23:31	15763-1.RAW	#####	9.60			8.8	0.014	0.014	ng/L	

BC 9-18-16



Frontier Global Sciences

MMHg27001-160916-1 SOLIDS

Analysis Datasheet for Methyl Mercury in Soil/Tissue

Date of Analysis: September 16, 2016

Instrument #: Hg2700-1

LIMS Sequence #: 6I16012

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	28.56 units	571.15	27.78 units	555.55	90.2 %Rec
SEQ-CAL2	1	0.20 ng/L	125.59 units	627.96	124.81 units	624.06	101.4 %Rec
SEQ-CAL3	1	1.00 ng/L	616.30 units	616.30	615.52 units	615.52	100.0 %Rec
SEQ-CAL4	1	2.00 ng/L	1398.89 units	699.44	1398.11 units	699.05	113.5 %Rec
SEQ-CAL5	1	4.00 ng/L	2338.07 units	584.52	2337.29 units	584.32	94.9 %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**
 615.70 +/- 53.90 8.8% RSD 619.87

Blanks:

LabNumber	n	Mean	Std Dev	Mean (ng/L)	Std Dev (ng/L)
SEQ-IBL	1	0.78 units		0.00 ng/L	#VALUE!

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Preparation Blanks

Sample Type	Batch ID	n	Mean	Std Dev
BLK	1	3	0.036 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	

Sample								Uncorrected	No PB						
Instrument	Analyst	Type	LabNumber	Dilution	Analyzed	FileID	Run End	Response	Batch ID	Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
Hg2700-1	RN	CAL	SEQ-IBL1	1	9/16/16 8:34	15680-1.RAW	8:34:27	0.78			0.0	0.000	0.000	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL1	1	9/16/16 8:44	15681-1.RAW	8:44:57	28.56			27.8	0.045	0.045	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL2	1	9/16/16 8:55	15682-1.RAW	8:55:28	125.59			124.8	0.203	0.203	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL3	1	9/16/16 9:05	15683-1.RAW	9:05:59	616.30			615.5	1.000	1.000	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL4	1	9/16/16 9:16	15684-1.RAW	9:16:30	1398.89			1398.1	2.271	2.271	ng/L	
Hg2700-1	RN	CAL	SEQ-CAL5	1	9/16/16 9:27	15685-1.RAW	9:27:00	2338.07			2337.3	3.796	3.796	ng/L	
Hg2700-1	RN	CAL	SEQ-ICV1	1	9/16/16 9:37	15686-1.RAW	9:37:31	324.12			323.3	0.525	0.525	ng/L	
Hg2700-1	RN	CAL	SEQ-ICB1	1	9/16/16 9:48	15687-1.RAW	9:48:02	7.16			6.4	0.010	0.010	ng/L	
Hg2700-1	RN	BLK	F609389-BLK1	1.25	9/16/16 10:23	15688-1.RAW	10:23:30	7.41		X	6.6	0.011	0.013	ng/L	
Hg2700-1	RN	BLK	F609389-BLK2	1.25	9/16/16 10:33	15689-1.RAW	10:33:59	4.48		X	3.7	0.006	0.008	ng/L	
Hg2700-1	RN	BLK	F609389-BLK3	1.25	9/16/16 10:44	15690-1.RAW	10:44:30	6.23		X	5.5	0.009	0.011	ng/L	
Hg2700-1	RN	SAM	F609389-BS1	1.25	9/16/16 10:55	15691-1.RAW	10:55:00	413.86		X	413.1	0.671	0.839	ng/L	
Hg2700-1	RN	SAM	F609389-BSD1	1.25	9/16/16 11:05	15692-1.RAW	11:05:31	417.05		X	416.3	0.676	0.845	ng/L	
Hg2700-1	RN	SAM	F609389-DUP1	1.25	9/16/16 11:16	15693-1.RAW	11:16:02	8.24		X	7.5	0.012	0.018	ng/L	
Hg2700-1	RN	SAM	F609389-MS1	1.25	9/16/16 11:26	15694-1.RAW	11:26:32	473.18		X	472.4	0.767	0.959	ng/L	
Hg2700-1	RN	SAM	F609389-MSD1	1.25	9/16/16 11:37	15695-1.RAW	11:37:03	484.71		X	483.9	0.786	0.982	ng/L	
Hg2700-1	RN	SAM	F609389-MS2	1.25	9/16/16 11:47	15696-1.RAW	11:47:34	505.28		X	504.5	0.819	1.024	ng/L	
Hg2700-1	RN	SAM	F609389-MSD2	1.25	9/16/16 11:58	15697-1.RAW	11:58:04	489.60		X	488.8	0.794	0.992	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV1	1	9/16/16 12:08	15698-1.RAW	12:08:35	325.79			324.6	0.528	0.528	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB1	1	9/16/16 12:19	15699-1.RAW	12:19:06	3.92			3.1	0.005	0.005	ng/L	
Hg2700-1	RN	SAM	1608361-46	1.25	9/16/16 12:29	15700-1.RAW	12:29:36	79.42		X	78.6	0.128	0.160	ng/L	
Hg2700-1	RN	SAM	1608361-49	1.25	9/16/16 12:40	15701-1.RAW	12:40:07	52.16		X	51.4	0.083	0.104	ng/L	
Hg2700-1	RN	SAM	1608361-53	1.25	9/16/16 12:50	15702-1.RAW	12:50:38	25.66		X	24.9	0.040	0.051	ng/L	
Hg2700-1	RN	SAM	1608361-55	1.25	9/16/16 13:01	15703-1.RAW	13:01:08	3.31		X	2.5	0.004	0.005	ng/L	
Hg2700-1	RN	SAM	1608517-01	1.25	9/16/16 13:11	15704-1.RAW	13:11:39	41.00		X	40.2	0.065	0.082	ng/L	
Hg2700-1	RN	SAM	1608517-02	1.25	9/16/16 13:22	15705-1.RAW	13:22:10	47.83		X	47.0	0.076	0.096	ng/L	
Hg2700-1	RN	SAM	1608517-03	1.25	9/16/16 13:32	15706-1.RAW	13:32:40	48.39		X	47.6	0.077	0.097	ng/L	
Hg2700-1	RN	SAM	1608517-04	1.25	9/16/16 13:43	15707-1.RAW	13:43:11	41.88		X	41.1	0.067	0.083	ng/L	
Hg2700-1	RN	SAM	1608517-05	1.25	9/16/16 13:53	15708-1.RAW	13:53:42	56.23		X	55.4	0.090	0.113	ng/L	
Hg2700-1	RN	SAM	1608517-06	1.25	9/16/16 14:04	15709-1.RAW	14:04:12	30.64		X	29.9	0.048	0.061	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV2	1	9/16/16 14:14	15710-1.RAW	14:14:43	317.01			316.2	0.514	0.514	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB2	1	9/16/16 14:25	15711-1.RAW	14:25:14	5.40			4.6	0.008	0.008	ng/L	
Hg2700-1	RN	SAM	1608566-01	1.25	9/16/16 14:35	15712-1.RAW	14:35:44	2.49		X	1.7	0.003	0.003	ng/L	
Hg2700-1	RN	SAM	1608618-01	1.25	9/16/16 14:46	15713-1.RAW	14:46:15	3.45		X	2.7	0.004	0.005	ng/L	
Hg2700-1	RN	SAM	1608618-02	1.25	9/16/16 14:56	15714-1.RAW	14:56:46	845.80		X	845.0	1.372	1.716	ng/L	
Hg2700-1	RN	SAM	1608618-03	1.25	9/16/16 15:07	15715-1.RAW	15:07:16	34.82		X	34.0	0.055	0.069	ng/L	
Hg2700-1	RN	SAM	1608618-04	1.25	9/16/16 15:17	15716-1.RAW	15:17:47	29.97		X	29.2	0.047	0.059	ng/L	
Hg2700-1	RN	SAM	1608618-05	1.25	9/16/16 15:28	15717-1.RAW	15:28:18	35.05		X	34.3	0.056	0.070	ng/L	
Hg2700-1	RN	SAM	1608618-06	1.25	9/16/16 15:38	15718-1.RAW	15:38:48	823.79		X	823.0	1.337	1.671	ng/L	
Hg2700-1	RN	SAM	1608618-07	1.25	9/16/16 15:49	15719-1.RAW	15:49:19	901.22		X	900.4	1.462	1.828	ng/L	
Hg2700-1	RN	SAM	1608618-08	1.25	9/16/16 15:59	15720-1.RAW	15:59:50	10.05		X	9.3	0.015	0.019	ng/L	
Hg2700-1	RN	SAM	1608663-01	1.25	9/16/16 16:10	15721-1.RAW	16:10:20	4.02		X	3.2	0.005	0.007	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV3	1	9/16/16 16:20	15722-1.RAW	16:20:51	298.84			298.1	0.484	0.484	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB3	1	9/16/16 16:31	15723-1.RAW	16:31:22	3.13			2.4	0.004	0.004	ng/L	
Hg2700-1	RN	SAM	1608323-01	2500	9/16/16 16:41	15724-1.RAW	16:41:53	4.54		1	3.8	0.006	15.244	ng/L	
Hg2700-1	RN	SAM	1608323-07	2500	9/16/16 16:52	15725-1.RAW	16:52:23	15.75		1	15.0	0.024	60.734	ng/L	

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Sample				Dilution	Analyzed	FileID	Run End	Uncorrected Response	Batch ID	No PB				Comments	
Instrument	Analyst	Type	LabNumber							Correction?	RESP	InitialResult	FinalResult		InitialUnits
Hg2700-1	RN	SAM	1608361-05	1	9/16/16 17:02	15726-1.RAW	17:02:54	19.98	1		19.2	-0.005	-0.005	ng/L	
Hg2700-1	RN	BLK	F609314-BLK1	1	9/16/16 17:13	15727-1.RAW	17:13:25	23.32	1		22.5	0.037	0.037	ng/L	
Hg2700-1	RN	BLK	F609314-BLK2	1	9/16/16 17:23	15728-1.RAW	17:23:55	20.99	1		20.2	0.033	0.033	ng/L	
Hg2700-1	RN	BLK	F609314-BLK3	1	9/16/16 17:34	15729-1.RAW	17:34:26	24.88	1		24.1	0.039	0.039	ng/L	
Hg2700-1	RN	SAM	F609314-BS1	10	9/16/16 17:44	15730-1.RAW	17:44:57	598.85	1		598.1	0.968	9.678	ng/L	
Hg2700-1	RN	SAM	F609314-BSD1	10	9/16/16 17:55	15731-1.RAW	17:55:27	611.95	1		611.2	0.989	9.890	ng/L	
Hg2700-1	RN	SAM	1608072-01	1	9/16/16 18:05	15732-1.RAW	18:05:58	1167.99	1		1167.2	1.860	1.860	ng/L	
Hg2700-1	RN	SAM	1608361-06	1	9/16/16 18:16	15733-1.RAW	18:16:29	100.49	1		99.7	0.126	0.126	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV4	1	9/16/16 18:26	15734-1.RAW	18:26:59	316.04			315.3	0.512	0.512	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB4	1	9/16/16 18:37	15735-1.RAW	18:37:30	5.14			4.4	0.007	0.007	ng/L	
Hg2700-1	RN	SAM	1608323-01RE1	5	9/16/16 18:48	15736-1.RAW	18:48:01	410.09	1		409.3	0.658	3.288	ng/L	
Hg2700-1	RN	SAM	1608323-02	5	9/16/16 18:58	15737-1.RAW	18:58:31	385.87	1		385.1	0.618	3.091	ng/L	
Hg2700-1	RN	SAM	1608323-03	5	9/16/16 19:09	15738-1.RAW	19:09:02	303.49	1		302.7	0.484	2.422	ng/L	
Hg2700-1	RN	SAM	1608323-04	5	9/16/16 19:19	15739-1.RAW	19:19:33	202.21	1		201.4	0.320	1.600	ng/L	
Hg2700-1	RN	SAM	1608323-05	5	9/16/16 19:30	15740-1.RAW	19:30:03	217.37	1		216.6	0.345	1.723	ng/L	
Hg2700-1	RN	SAM	1608323-06	5	9/16/16 19:40	15741-1.RAW	19:40:35	187.50	1		186.7	0.296	1.480	ng/L	
Hg2700-1	RN	SAM	1608323-07RE1	5	9/16/16 19:51	15742-1.RAW	19:51:06	6400.20	1		6400.4	10.388	51.940	ng/L	
Hg2700-1	RN	SAM	1608323-08	5	9/16/16 20:01	15743-1.RAW	20:01:37	3916.30	1		3915.5	6.352	31.761	ng/L	
Hg2700-1	RN	SAM	1608323-09	5	9/16/16 20:12	15744-1.RAW	20:12:07	46.29	1		45.5	0.067	0.333	ng/L	
Hg2700-1	RN	SAM	1608323-10	5	9/16/16 20:22	15745-1.RAW	20:22:38	8790.83	1		8790.1	14.269	71.346	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV5	1	9/16/16 20:33	15746-1.RAW	20:33:09	364.44			363.7	0.591	0.591	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB5	1	9/16/16 20:43	15747-1.RAW	20:43:39	22.37			21.6	0.035	0.035	ng/L	
Hg2700-1	RN	SAM	1608323-11	1	9/16/16 20:54	15748-1.RAW	20:54:10	3962.62	1		3961.8	6.398	6.398	ng/L	
Hg2700-1	RN	SAM	1608323-12	1	9/16/16 21:04	15749-1.RAW	21:04:41	4963.86	1		4963.1	8.025	8.025	ng/L	
Hg2700-1	RN	SAM	1608361-07	1	9/16/16 21:15	15750-1.RAW	21:15:11	106.16	1		105.4	0.135	0.135	ng/L	
Hg2700-1	RN	SAM	1608361-08	1	9/16/16 21:25	15751-1.RAW	21:25:42	49.88	1		49.1	0.044	0.044	ng/L	
Hg2700-1	RN	SAM	1608361-09	1	9/16/16 21:36	15752-1.RAW	21:36:13	14527.31	1		14526.5	23.557	23.557	ng/L	
Hg2700-1	RN	SAM	1608361-10	1	9/16/16 21:46	15753-1.RAW	21:46:43	120.45	1		119.7	0.158	0.158	ng/L	
Hg2700-1	RN	SAM	1608361-11	1	9/16/16 21:57	15754-1.RAW	21:57:14	66.31	1		65.5	0.070	0.070	ng/L	
Hg2700-1	RN	SAM	F609314-DUP1	1	9/16/16 22:07	15755-1.RAW	22:07:45	684.46	1		683.7	1.074	1.074	ng/L	
Hg2700-1	RN	SAM	F609314-MS1	10	9/16/16 22:18	15756-1.RAW	22:18:16	817.78	1		817.0	1.323	13.233	ng/L	
Hg2700-1	RN	SAM	F609314-MSD1	10	9/16/16 22:28	15757-1.RAW	22:28:46	860.02	1		859.2	1.392	13.919	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV6	1	9/16/16 22:39	15758-1.RAW	22:39:17	433.08			432.3	0.702	0.702	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB6	1	9/16/16 22:49	15759-1.RAW	22:49:48	13.38			12.6	0.020	0.020	ng/L	
Hg2700-1	RN	SAM	F609314-MS2	10	9/16/16 23:00	15760-1.RAW	23:00:18	695.07	1		694.3	1.124	11.240	ng/L	
Hg2700-1	RN	SAM	F609314-MSD2	10	9/16/16 23:10	15761-1.RAW	23:10:49	1004.00	1		1003.2	1.626	16.258	ng/L	
Hg2700-1	RN	CAL	SEQ-CCV7	1	9/16/16 23:21	15762-1.RAW	23:21:20	377.25			376.5	0.611	0.611	ng/L	
Hg2700-1	RN	CAL	SEQ-CCB7	1	9/16/16 23:31	15763-1.RAW	23:31:50	9.60			8.8	0.014	0.014	ng/L	

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Sample/ID	Locatior	Rinse	Dilute	Blank	ConcHo(p)	ConcHo(pp)	ConcHo(pp)	ConcHo(pp)	Rec%	RawData	RunEnd	PeakHo(d)	PeakMeHo (R)	PeakHo(HoW)	PeakPrHo(R)	Control (ctf)	Flags	RunCount	
Clean					0	0.001523062	0.0014906			15678-1.RAW		0	0.8146113	0.91776974		0	cleaning	1	
W5	A1									15579-1.RAW		47.4794981	0	0.08560006		0	psample10	CT	1
SEQ-IBL1	A2	1	0	0.1368301	0.001266801	0.0506486				15680-1.RAW		85.4779119	0.77997159	31.1344015		0	psample10	CT	1
SEQ-CAL1	A3	1	0.78	0.1372007	0.04511537	0.0522453		90.23		15681-1.RAW		85.2546638	28.5575758	32.9474905		0	psample10	CT	1
SEQ-CAL2	A4	1	0.78	0.134099	0.202715901	0.0593395		101.36		15682-1.RAW		83.3449574	125.592472	37.3153883		0	psample10	OK	1
SEQ-CAL3	A5	1	0.78	0.2487803	0.999999599	0.0668036		99.97		15683-1.RAW		153.954372	0.16296591	43.0194602		0	psample10	CT	1
SEQ-CAL4	A6	3	0.78	0.2282733	2.270758614	0.0767345		113.54		15684-1.RAW		141.328174	1398.88963	48.0255208		0	psample10	CT	1
SEQ-CAL5	A7	3	0.78	0.6716932	3.796136787	0.110283		94.90		15685-1.RAW		414.342554	2338.06738	68.681392		0	psample10	CT	1
SEQ-ICV1	A8	1	0.78	1.2310969	0.525156335	0.4749726		105.16		15686-1.RAW		758.768277	324.119555	293.221327		0	psample10	CT	1
SEQ-ICB1	A9	1	0.78	0.086455	0.010338367	0.06199		0.00		15687-1.RAW	9:48:02	95.3591383	7.15764678	38.9473011		0	psample10	CT	1
F609389-BL.K1	A10	1.25	0.78	0.078334	0.013458707	0.0725003				15688-1.RAW		39.3642818	7.40520928	36.4908144		0	psample10	CT	1
F609389-BLK2	A11	1.25	0.78	0.0982532	0.007514544	0.0694717				15689-1.RAW		49.1756674	4.4813447	34.9990179		0	psample10	CT	1
F609389-BLK3	A12	1.25	0.78	0.0763221	0.01091975	0.1054938				15690-1.RAW		54.3442708	61.5861742	52.7421165		0	psample10	CT	1
F609389-BS1	A13	1.25	0.78	0.1087465	0.838636069	0.071334				15691-1.RAW		51.0909328	41.704517	48.8431345		0	psample10	OK	1
F609389-BSD1	A14	1.25	0.78	0.1021415	0.845103404	0.097578				15692-1.RAW		35.6654356	8.24464967	69.0206913		0	psample10	OK	1
F609389-DUP1	A15	1.25	0.78	0.0708246	0.015154822	0.1382626				15693-1.RAW		41.1318182	472.7334040	68.9664896		0	psample10	CT	1
F609389-MS1	A16	1.25	0.78	0.0819225	0.958161897	0.1384366		95.82		15694-1.RAW		39.700142	484.714205	54.2527277		0	psample10	CT	1
F609389-MSD1	A17	1.25	0.78	0.0796159	0.38248537	0.1085597				15695-1.RAW		47.021875	505.282197	76.0558712		0	psample10	OK	1
F609389-MS2	A18	1.25	0.78	0.0938805	1.024242597	0.1528255		51.21		15696-1.RAW		46.5619792	489.598295	79.3310133		0	psample10	CT	1
F609389-MSD2	A19	1.25	0.78	0.0929468	0.92491072	0.1594747				15697-1.RAW		636.497673	325.789441	297.650549		0	psample10	CT	1
SEQ-CCV1	A20	1	0.78	1.0325095	0.527868503	0.4821663		105.70		15698-1.RAW		34.1058002	3.92372159	47.2630568		0	psample10	CT	1
SEQ-CCB1	A21	1	0.78	0.0541266	0.005105964	0.0754994		0.00		15699-1.RAW		89.2267045	79.4161458	56.5788352		0	psample10	CT	1
1608361-46	B1	1.25	0.78	0.1795649	0.159647501	0.1132831				15700-1.RAW		67.7867151	52.1554451	52.1301847		0	psample10	CT	1
1608361-49	B2	1.25	0.78	0.1360374	0.104302708	0.1042514				15701-1.RAW		52.5700758	25.7049006	74.4424242		0	psample10	CT	1
1608361-53	B3	1.25	0.78	0.1051445	0.050602698	0.1495498				15702-1.RAW		39.4204545	3.31420455	59.4701705		0	psample10	OK	1
1608361-55	B4	1.25	0.78	0.0784481	0.005145011	0.1191531				15703-1.RAW		44.9539145	41.0026409	82.3360334		0	psample10	CT	1
1608517-01	BS	1.25	0.78	0.0896821	0.081660643	0.1655755				15704-1.RAW		42.4643466	47.8282197	100.61643		0	psample10	CT	1
1608517-02	B6	1.25	0.78	0.0840278	0.095517556	0.2026884				15705-1.RAW		31.3016572	48.3856061	69.0685902		0	psample10	CT	1
1608517-03	B7	1.25	0.78	0.0619653	0.09649165	0.1386398				15706-1.RAW		42.8050852	41.3816998	47.7544508		0	psample10	OK	1
1608517-04	B8	1.25	0.78	0.085482	0.083444906	0.0953678				15707-1.RAW		46.1709317	56.2258523	62.5521311		0	psample10	CT	1
1608517-05	B9	1.25	0.78	0.092153	0.112869466	0.1254101				15708-1.RAW		28.1097604	30.6361742	47.6521089		0	psample10	CT	1
1608517-06	B10	1.25	0.78	0.0554849	0.060614192	0.0951601				15709-1.RAW		656.582539	317.012713	319.370315		0	psample10	CT	1
SEQ-CCV2	B11	1	0.78	1.0651322	0.513613662	0.5174428		102.85		15710-1.RAW		33.0170455	5.39928977	44.3324574		0	psample10	OK	1
SEQ-CCB2	B12	1	0.78	0.0523583	0.007503528	0.0707364		0.00		15711-1.RAW		30.2795218	2.49483902	68.6557528		0	psample10	OK	1
1608596-01	B13	1.25	0.78	0.0598901	0.003481531	0.1378017				15712-1.RAW		29.7669981	3.45203598	48.6000473		0	psample10	OK	1
1608618-01	B14	1.25	0.78	0.0584496	0.005424837	0.0970945				15713-1.RAW		51.6363636	845.803835	191.512744		0	psample10	OK	1
1608618-02	B15	1.25	0.78	0.1032489	1.71571097	0.3872265				15714-1.RAW		34.1272254	34.8217566	94.1630682		0	psample10	OK	1
1608618-03	B16	1.25	0.78	0.0677017	0.069111779	0.1895868				15715-1.RAW		33.034375	29.9702652	128.208144		0	psample10	OK	1
1608618-04	B17	1.25	0.78	0.065483	0.05926226	0.2587052				15716-1.RAW		28.7987689	35.0509706	127.01804		0	psample10	CT	1
1608618-05	B18	1.25	0.78	0.0568839	0.06957713	0.2562891				15717-1.RAW		60.7098854	823.789489	160.523651		0	psample10	CT	1
1608618-06	B19	1.25	0.78	0.12167	1.670877476	0.3243123				15718-1.RAW		58.9360795	901.205083	273.994115		0	psample10	CT	1
1608618-07	B20	1.25	0.78	0.1180688	1.82804695	0.5546683				15719-1.RAW		23.8446672	10.0492424	61.18241		0	psample10	CT	1
1608618-08	B21	1.25	0.78	0.0468256	0.018818514	0.1226293				15720-1.RAW		20.0437973	0.01919981	56.3048769		0	psample10	OK	1
1608663-01	C1	1.25	0.78	0.0391095	0.006576295	0.1131329				15721-1.RAW		1038.39734	296.440578	313.515661		0	psample10	CT	1
SEQ-CCV3	C2	1	0.78	1.6852602	0.483449478	0.5079339		96.81		15722-1.RAW		29.8868865	3.13297822	50.8999527		0	psample10	OK	1
SEQ-CCB3	C3	1	0.78	0.0472744	0.003821667	0.081403		0.00		15723-1.RAW		40.852942	4.94320549	53.278267		0	psample10	OK	1
1608323-01	C4	2500	0.78	162.71407	15.28026744	213.16453				15724-1.RAW		60.657339	15.7464489	79.4020168		0	psample10	CT	1
1608323-07	C5	2500	0.78	243.12658	60.77001359	319.35254				15725-1.RAW		80.8067235	19.9775568	1099.10826		0	psample10	CT	1
1608361-05	C12	1	0.78	0.1299765	0.031180016	1.7838647				15726-1.RAW		34.793608	32.3214015	41.5276989		0	psample10	CT	1
F609314-BLK1	C5	1	0.78	0.0552437	0.036630967	0.066181				15727-1.RAW		38.3660985	20.9861269	40.5024982		0	psample10	CT	1
F609314-BLK2	C6	1	0.78	0.0446044	0.032818099	0.0651635				15728-1.RAW		24.311411	24.8797822	40.5687028		0	psample10	CT	1
F609314-BS1	C9	10	0.78	0.0382189	0.039142032	0.0646234				15729-1.RAW		38.0923295	598.853527	30.2049242		0	psample10	CT	1
F609314-BSD1	C10	10	0.78	0.0606137	9.713692128	0.4779093				15730-1.RAW		45.4857249	611.946946	36.0354698		0	psample10	OK	1
1608702-01	C11	1	0.78	0.7260545	9.926350647	0.5726069				15731-1.RAW		96.0468277	1167.98909	1207.38854		0	psample10	CT	1
1608361-06	C13	1	0.78	0.1547289	1.895738188	1.9597295				15732-1.RAW		52.7268785	100.491454	57.3424716		0	psample10	CT	1
SEQ-CCV4	C14	1	0.78	0.0843703	0.161947745	0.0918667				15733-1.RAW		1009.16848	316.042094	343.245174		0	psample10	CT	1
SEQ-CCB4	C15	1	0.78	1.6377878	0.512034294	0.5562195		102.53		15734-1.RAW		32.6436553	5.1375947	47.793679		0	psample10	CT	1
1608323-01RE1	C1																		

F609314-MS1	A16	10	0.78	12.82014	13.26941158	4.5374058	1326.94	15756-1.RAW	790.118043	817.779735	280.149006	0	psample10	CT	1	
F609314-MSD1	A17	10	0.78	8.8562894	13.95552182	3.6493946		15757-1.RAW	607.633265	860.023651	225.473771	0	psample10	CT	1	
SEQ-CCV6	A18	1	0.78	0.9950381	0.702120786	0.8561105	140.60	15758-1.RAW	613.426495	433.075867	527.888535	0	psample10	CT	1	
SEQ-CCB6	A19	1	0.78	0.5920708	0.020459192	0.2369504	0.00	15759-1.RAW	365.318898	13.3767282	146.670691	0	psample10	CT	1	
F609314-MS2	A20	10	0.78	21.087684	11.27635	214.98684	563.82	15760-1.RAW	1299.15201	695.066619	13237.5525	0	psample10	CT	1	
F609314-MSD2	AZ1	10	0.78	28.50562	16.289398998	151.7546		15761-1.RAW	1755.8755	1004.0035	9344.33466	0	psample10	CT	1	
SEQ-CCV7	B1	1	0.78	0.8114641	0.611448016	0.8179979	122.44	15762-1.RAW	500.39971	377.249479	504.402542	0	psample10	CT	1	
SEQ-CCB7	B2	1	0.78	0.5037275	0.014317939	0.241991	0.00	15763-1.RAW	23331.50	310.925793	9.59554924	145.774223	0	psample10	CT	1

SampleID	ID	Operator	RN	Blanks	0.78	Calib Eqn:	Conc = (Area-0.780) / 615.702	Run Date:	####	Blank SD:	0										
Workst	MHz270	CalibFz	615.7	Status:	OK, 1	Warnings	Run Time:	10:12:57	Blank RSt	0											
Method	2010-01	R:	0.9955	R:	0.995094412		Time:	10:12:57	CF SD:	53.69866994											
Descr	MHz270	101616					CalibAnah	MeHg	CF RSD%	8.754057482											
SampleID	ID	Locator	Rinse	Dilute	Blank	ConcHo2(R)	ConcMeHg(ppb)	ConcHo2(Raw)	ConcPrHo2	Rec%	QA	RawData	RunEnd	PeakHo2 (Raw)	PeakMeHg (R)	PeakHo2(Raw)	PeakPrHo2(Raw)	Control (etc)	Flags	RunCount	
15678-1	RAW					0.001323062	0.0014906					15678-1.RAW	8:13:25	0	0.8146113	0.91776974		0	cleany	CT	1
15679-1	RAW											15679-1.RAW	8:21:56	47.4794801	0	6.08570076		0	psample10	CT	1
15680-1	RAW									90.23		15680-1.RAW	8:34:27	85.4779119	0.77997159	31.1844015		0	psample10	CT	1
15681-1	RAW									101.36		15681-1.RAW	8:44:57	85.2546638	28.5575758	32.9474905		0	psample10	CT	1
15682-1	RAW									99.97		15682-1.RAW	9:05:59	153.954372	616.296591	43.0194602		0	psample10	CT	1
15683-1	RAW									113.54		15683-1.RAW	9:16:30	141.328174	1398.88963	48.0255208		0	psample10	CT	1
15684-1	RAW									94.90		15684-1.RAW	9:27:00	414.342554	2338.06738	68.8452178		0	psample10	CT	1
15685-1	RAW									105.16		15685-1.RAW	9:37:31	759.912997	324.119555	293.221327		0	psample10	CT	1
15686-1	RAW									0.00		15686-1.RAW	9:48:02	55.3591383	7.15861742	38.9473011		0	psample10	CT	1
15687-1	RAW											15687-1.RAW	10:23:30	39.3542818	7.40662879	35.4908144		0	psample10	CT	1
15688-1	RAW											15688-1.RAW	10:33:59	49.1756674	4.4613447	34.8375663		0	psample10	CT	1
15689-1	RAW											15689-1.RAW	10:44:30	38.3776989	6.23309659	52.7421165		0	psample10	CT	1
15690-1	RAW											15690-1.RAW	10:55:00	54.3442708	413.859612	75.9163589		0	psample10	OK	1
15691-1	RAW											15691-1.RAW	11:05:31	51.072854	417.04517	48.8295597		0	psample10	OK	1
15692-1	RAW											15692-1.RAW	11:16:02	35.6654356	8.24464962	89.0206913		0	psample10	OK	1
15693-1	RAW									95.91		15693-1.RAW	11:26:32	41.1318182	473.1759	68.8046307		0	psample10	OK	1
15694-1	RAW											15694-1.RAW	11:37:03	39.700142	484.714205	54.2522727		0	psample10	OK	1
15695-1	RAW									51.21		15695-1.RAW	11:47:34	47.021875	505.282197	76.0556712		0	psample10	OK	1
15696-1	RAW											15696-1.RAW	11:58:04	46.5619792	489.598295	79.3310133		0	psample10	OK	1
15697-1	RAW											15697-1.RAW	12:08:35	636.497673	325.789441	297.721403		0	psample10	OK	1
15698-1	RAW									105.70		15698-1.RAW	12:19:06	24.1058002	3.92321519	47.3731534		0	psample10	OK	1
15699-1	RAW									0.00		15699-1.RAW	12:29:36	59.2267045	79.4161458	56.5788352		0	psample10	OK	1
15700-1	RAW											15700-1.RAW	12:40:07	67.7867151	52.1554451	51.9336648		0	psample10	OK	1
15701-1	RAW											15701-1.RAW	12:50:38	52.5700758	25.6598485	74.4741951		0	psample10	OK	1
15702-1	RAW											15702-1.RAW	13:01:08	39.4204545	3.31420455	59.4701705		0	psample10	OK	1
15703-1	RAW											15703-1.RAW	13:11:39	44.9539145	41.0028409	82.3360334		0	psample10	OK	1
15704-1	RAW											15704-1.RAW	13:22:10	42.4658144	47.8282197	100.61643		0	psample10	OK	1
15705-1	RAW											15705-1.RAW	13:32:40	31.3016572	48.3856061	67.5753137		0	psample10	OK	1
15706-1	RAW											15706-1.RAW	13:49:11	42.8850852	41.8816998	47.7544558		0	psample10	OK	1
15707-1	RAW											15707-1.RAW	13:53:42	46.1709517	56.2258523	62.8521311		0	psample10	OK	1
15708-1	RAW											15708-1.RAW	14:04:12	28.1097064	30.6361742	47.6521889		0	psample10	OK	1
15709-1	RAW									102.85		15709-1.RAW	14:14:42	656.583539	317.012713	219.370215		0	psample10	OK	1
15710-1	RAW									0.00		15710-1.RAW	14:25:14	33.0170455	5.39928977	44.3446259		0	psample10	OK	1
15711-1	RAW											15711-1.RAW	14:35:44	30.2795218	2.49483902	68.6557528		0	psample10	OK	1
15712-1	RAW											15712-1.RAW	14:46:15	29.7669981	3.45203598	48.6000473		0	psample10	OK	1
15713-1	RAW											15713-1.RAW	14:56:46	51.6363636	845.803835	191.512744		0	psample10	OK	1
15714-1	RAW											15714-1.RAW	15:07:16	34.1272254	34.8217566	94.0999527		0	psample10	OK	1
15715-1	RAW											15715-1.RAW	15:17:47	33.034375	29.9702652	128.208144		0	psample10	OK	1
15716-1	RAW											15716-1.RAW	15:28:18	28.7987689	35.0509706	127.01804		0	psample10	OK	1
15717-1	RAW											15717-1.RAW	15:38:48	80.6864502	823.789489	160.523651		0	psample10	OK	1
15718-1	RAW											15718-1.RAW	15:49:19	58.9360795	901.219129	273.994115		0	psample10	OK	1
15719-1	RAW											15719-1.RAW	15:59:50	23.8444672	10.0492424	61.18241		0	psample10	OK	1
15720-1	RAW											15720-1.RAW	16:10:20	20.0504498	4.01919981	56.5048768		0	psample10	OK	1
15721-1	RAW											15721-1.RAW	16:20:51	1038.39934	298.837925	313.515661		0	psample10	OK	1
15722-1	RAW									96.94		15722-1.RAW	16:31:22	29.8868845	3.13257822	50.8999527		0	psample10	OK	1
15723-1	RAW											15723-1.RAW	16:41:53	40.8532942	4.54320549	53.272667		0	psample10	OK	1
15724-1	RAW											15724-1.RAW	16:52:23	60.657339	15.7464489	79.4303168		0	psample10	OK	1
15725-1	RAW											15725-1.RAW	17:02:54	80.8067235	19.9784091	1099.10826		0	psample10	OK	1
15726-1	RAW											15726-1.RAW	17:13:25	34.793608	23.3214015	41.5279889		0	psample10	OK	1
15727-1	RAW											15727-1.RAW	17:23:55	28.3660985	20.9861269	40.9024882		0	psample10	OK	1
15728-1	RAW											15728-1.RAW	17:34:26	24.311411	24.8786222	40.5687028		0	psample10	OK	1
15729-1	RAW											15729-1.RAW	17:44:57	38.0923295	598.853527	30.2049242		0	psample10	OK	1
15730-1	RAW											15730-1.RAW	17:55:27	45.4857249	611.946946	36.6780303		0	psample10	OK	1
15731-1	RAW											15731-1.RAW	18:05:58	96.0468277	1167.98909	1207.38854		0	psample10	OK	1
15732-1	RAW											15732-1.RAW	18:16:29	52.7268785	100.491454	57.3424716		0	psample10	OK	1
15733-1	RAW											15733-1.RAW	18:26:59	1009.16848	316.040294	343.245174		0	psample10	OK	1
15734-1	RAW											15734-1.RAW	18:37:30	32.6436553	5.14060133	47.793679		0	psample10	OK	1
15735-1	RAW											15735-1.RAW	18:48:01	2351.31834	410.08634	14524.7306		0	psample10	OK	1
15736-1	RAW											15736-1.RAW	18:58:31	1091.02947	385.866004	5961.75079		0	psample10	OK	1
15737-1	RAW											15737-1.RAW	19:09:02	2358.16221	303.49037	48272.8929		0	psample10	OK	1
15738-1	RAW											15738-1.RAW	19:19:35	5027.61141	202.209422	36466.4859		0	psample10	OK	1
15739-1	RAW																				

F609314-MS1	A16	10	0.78	12.82014	13.26941158	4.5374098	1326.94	15756-1.RAW	22:18:16	790.118043	817.779735	280.149006	0 psample10	CT	1
F609314-MSD1	A17	10	0.78	9.8562894	13.9552182	3.6494038		15757-1.RAW	22:28:46	607.633065	860.023651	225.474337	0 psample10	CT	1
SEQ-CCV6	A18	1	0.78	0.9961703	0.70212324	0.8561105	140.60	15758-1.RAW	22:39:17	614.123584	433.077794	527.988535	0 psample10	CT	1
SEQ-CCB6	A19	1	0.78	0.5920708	0.020459192	0.2369915	0.00	15759-1.RAW	22:49:48	365.918898	13.3767262	146.671354	0 psample10	CT	1
F609314-MS2	A20	10	0.78	21.087684	11.27635	214.98664	563.82	15760-1.RAW	23:00:18	1299.15201	695.066619	13237.5535	0 psample10	CT	1
F609314-MSD2	A21	10	0.78	28.50562	16.29398998	151.7546		15761-1.RAW	23:10:49	1755.8755	1004.0035	9344.33466	0 psample10	CT	1
SEQ-CCV7	B1	1	0.78	0.8114641	0.611448016	0.8180253	122.44	15762-1.RAW	23:21:20	500.39971	377.249479	504.439442	0 psample10	CT	1
SEQ-CCB7	B2	1	0.78	0.5037275	0.014317939	0.241991	0.00	15763-1.RAW	23:31:50	310.925752	9.59554924	149.774223	0 psample10	CT	1

ANALYSIS SEQUENCE

6116012

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/16/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6116012-IBL1	QC	1			
6116012-CAL1	QC	2	1604163		
6116012-CAL2	QC	3	1604164		
6116012-CAL3	QC	4	1604165		
6116012-CAL4	QC	5	1604166		
6116012-CAL5	QC	6	1604167		
6116012-ICV1	QC	7	1605079		
6116012-ICB1	QC	8			
6116012-CCV1	QC	9	1605079		
6116012-CCB1	QC	10			
6116012-CCV2	QC	11	1605079		
6116012-CCB2	QC	12			
6116012-CCV3	QC	13	1605079		
6116012-CCB3	QC	14			
1608323-01	MHg-CVAFS-S-MeClExt	15			
1608323-07	MHg-CVAFS-S-MeClExt	16			
1608361-05	MHg-CVAFS-S-MeClExt	17			
F609314-BLK1	QC	18			
F609314-BLK2	QC	19			
F609314-BLK3	QC	20			
F609314-BS1	QC	21			
F609314-BSD1	QC	22			
1608072-01	MHg-CVAFS-S-MeClExt	23			
1608361-06	MHg-CVAFS-S-MeClExt	24			
6116012-CCV4	QC	25	1605079		
6116012-CCB4	QC	26			
1608323-01RE1	MHg-CVAFS-S-MeClExt	27			Added 9/17/2016 by DM2
1608323-02	MHg-CVAFS-S-MeClExt	28			
1608323-03	MHg-CVAFS-S-MeClExt	29			
1608323-04	MHg-CVAFS-S-MeClExt	30			
1608323-05	MHg-CVAFS-S-MeClExt	31			
1608323-06	MHg-CVAFS-S-MeClExt	32			
1608323-07RE1	MHg-CVAFS-S-MeClExt	33			Added 9/17/2016 by DM2
1608323-08	MHg-CVAFS-S-MeClExt	34			
1608323-09	MHg-CVAFS-S-MeClExt	35			

Due Date: 9/6/2016

ANALYSIS SEQUENCE

6116012

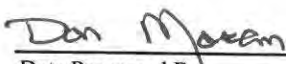
Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/16/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1608323-10	MHg-CVAFS-S-MeClExt	36			
6116012-CCV5	QC	37	1605079		
6116012-CCB5	QC	38			
1608323-11	MHg-CVAFS-S-MeClExt	39			
1608323-12	MHg-CVAFS-S-MeClExt	40			
1608361-07	MHg-CVAFS-S-MeClExt	41			
1608361-08	MHg-CVAFS-S-MeClExt	42			
1608361-09	MHg-CVAFS-S-MeClExt	43			
1608361-10	MHg-CVAFS-S-MeClExt	44			
1608361-11	MHg-CVAFS-S-MeClExt	45			
F609314-DUP1	QC	46			
F609314-MS1	QC	47			
F609314-MSD1	QC	48			
6116012-CCV6	QC	49	1605079		
6116012-CCB6	QC	50			
F609314-MS2	QC	51			
F609314-MSD2	QC	52			
6116012-CCV7	QC	53	1605079		
6116012-CCB7	QC	54			


 Samples Loaded By _____ Date 9/16/16


 Data Processed By _____ Date 9/17/16

Due Date: 9/6/2016

ANALYSIS SEQUENCE

6I16011

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/16/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
6I16011-JBL1	QC	1			
6I16011-CAL1	QC	2	1604163		
6I16011-CAL2	QC	3	1604164		
6I16011-CAL3	QC	4	1604165		
6I16011-CAL4	QC	5	1604166		
6I16011-CAL5	QC	6	1604167		
6I16011-ICV1	QC	7	1605079		
6I16011-ICB1	QC	8			
F609389-BLK1	QC	9			
F609389-BLK2	QC	10			
F609389-BLK3	QC	11			
F609389-BS1	QC	12			
F609389-BSD1	QC	13			
F609389-DUP1	QC	14			
F609389-MS1	QC	15			
F609389-MSD1	QC	16			
F609389-MS2	QC	17			
F609389-MSD2	QC	18			
6I16011-CCV1	QC	19	1605079		
6I16011-CCB1	QC	20			
1608361-46	MHg-CVAFS-W-Dist	21			
1608361-49	MHg-CVAFS-W-Dist	22			
1608361-53	MHg-CVAFS-W-Dist	23			
1608361-55	MHg-CVAFS-W-Dist	24			
1608517-01	MHg-CVAFS-W-Dist	25			Scan all data for level IV report
1608517-02	MHg-CVAFS-W-Dist	26			Scan all data for level IV report
1608517-03	MHg-CVAFS-W-Dist	27			Scan all data for level IV report
1608517-04	MHg-CVAFS-W-Dist	28			Scan all data for level IV report
1608517-05	MHg-CVAFS-W-Dist	29			Scan all data for level IV report
1608517-06	MHg-CVAFS-W-Dist	30			Scan all data for level IV report
6I16011-CCV2	QC	31	1605079		
6I16011-CCB2	QC	32			
1608566-01	MHg-CVAFS-W-Dist	33			
1608618-01	MHg-CVAFS-W-Dist	34			
1608618-02	MHg-CVAFS-W-Dist	35			

Due Date: 8/25/2016

ANALYSIS SEQUENCE

6116011

Instrument: Hg2700-1

Calibration ID: UNASSIGNED

Analyzed: 9/16/2016

Lab Number	Analysis	Order	STD ID	ISTD ID	Comments
1608618-03	MHg-CVAFS-W-Dist	36			
1608618-04	MHg-CVAFS-W-Dist	37			
1608618-05	MHg-CVAFS-W-Dist	38			
1608618-06	MHg-CVAFS-W-Dist	39			
1608618-07	MHg-CVAFS-W-Dist	40			
1608618-08	MHg-CVAFS-W-Dist	41			
1608663-01	MHg-CVAFS-W-Dist	42			
6116011-CCV3	QC	43	1605079		
6116011-CCB3	QC	44			
6116011-CCV4	QC	45	1605079		
6116011-CCB4	QC	46			
6116011-CCV5	QC	47	1605079		
6116011-CCB5	QC	48			
6116011-CCV6	QC	49	1605079		
6116011-CCB6	QC	50			
6116011-CCV7	QC	51	1605079		
6116011-CCB7	QC	52			


9/19/16

 Samples Loaded By Date


9/17/16

 Data Processed By Date

Due Date: 8/25/2016

Failing Data Report - 6I16012

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
1608323-07RE1	MHg-CVAFS-S-MeClExt	23.6	0.229				ng/g						FAIL-OVER	PASS	E
1608323-08	MHg-CVAFS-S-MeClExt	14.9	0.237				ng/g						FAIL-OVER	PASS	E
1608323-10	MHg-CVAFS-S-MeClExt	34.1	0.241				ng/g						FAIL-OVER	PASS	E
1608323-11	MHg-CVAFS-S-MeClExt	2.84	0.045				ng/g						FAIL-OVER	PASS	E
1608323-12	MHg-CVAFS-S-MeClExt	3.59	0.045				ng/g						FAIL-OVER	PASS	E
1608361-09	MHg-CVAFS-S-MeClExt	10.9	0.047				ng/g						FAIL-OVER	PASS	E
F609314-DUP1	MHg-CVAFS-S-MeClExt	0.519	0.049	0.802	0.802		ng/g				42.7	35.00	PASS-OVER	FAIL-DUP	QR-07
6I16012-CCV6	MHg-CVAFS-S-MeClExt	0.702	0.201			0.50049	ng/L	140	67.00	133.00			PASS-OVER	FAIL-CCV	DNR
F609314-MSD2	MHg-CVAFS-S-MeClExt	7.417	0.459	5.204	ND	4.5666	ng/g	162	65.00	130.00	36.5	35.00	PASS-OVER	FAIL-MSD (Rec. and RPD)	QR-07, QR-08

Don Moran
Analyst Reviewed By

9/17/16
Date

Peer Reviewing
Peer Reviewed By

9/19/16
Date

Failing Data Report - 6116011

Sample ID	Analysis	Result	MRL	Dup Result	Source Result	True Value	Units	% Rec.	Rec. LCL	Rec. UCL	RPD	RPD Limit	Over Cal	Failure	Qualifier
6116011-CCV6	MHg-CVAFS-W-Dist	0.702	0.045			0.50049	ng/L	140	67.00	133.00			PASS-OVER	FAIL-CCV	DNR

Don Moran
 Analyst Reviewed By | 9/17/16
 Date

B. King
 Peer Reviewed By | 9/19/16
 Date

PREPARATION BENCH SHEET

F609389

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

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

Prepared: 9/15/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609389-BLK1	Blank	45	40					
F609389-BLK2	Blank	45	40					
F609389-BLK3	Blank	45	40					
F609389-BS1	Blank Spike	45	40	1603908	45			
F609389-BSD1	Blank Spike Dup	45	40	1603908	45			
F609389-DUP1	Duplicate [1608566-01]	45	40					
F609389-MS1	Matrix Spike [1608361-53]	45	40	1603908	45			
F609389-MS2	Matrix Spike [1608517-01]	45	40	1603908	45			
F609389-MSD1	Matrix Spike Dup [1608361-53]	45	40	1603908	45			
F609389-MSD2	Matrix Spike Dup [1608517-01]	45	40	1603908	45			

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

Expiration: 19-Oct-16 00:00

<u>Reagent ID(s):</u> 1604614	<u>Description:</u> Acetate Buffer	<u>Expiration:</u> 15-Feb-17 00:00
1605166	Ethylating Agent (For Methyl Mercury Analysis)	05-Mar-17 00:00
1605365	APDC	25-Feb-17 00:00
1605395	0.5% Distillation Dilute (Made Daily)	14-Mar-17 00:00

PREPARATION BENCH SHEET

F609389

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

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

Prepared: 9/15/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608361-46	OCE-A	45	40	-	-	-		
1608361-49	OCE-B	45	40	-	-	-		
1608361-53	EQ-2	45	40	-	-	-	Sample frozen during transit and the bo	
1608361-55	WB-2	45	40	-	-	-		
1608517-01	OL-2449-01	45	40	-	-	-	Scan all data for level IV report	
1608517-02	OL-2449-02	45	40	-	-	-	Scan all data for level IV report	
1608517-03	OL-2449-03	45	40	-	-	-	Scan all data for level IV report	
1608517-04	OL-2449-04	45	40	-	-	-	Scan all data for level IV report	
1608517-05	OL-2449-05	45	40	-	-	-	Scan all data for level IV report	
1608517-06	OL-2449-06	45	40	-	-	-	Scan all data for level IV report	
1608566-01	Eff-001 Grab	45	40	-	-	-		
1608618-01	P85261-1	45	40	-	-	-		
1608618-02	P85261-2	45	40	-	-	-		
1608618-03	P85261-3	45	40	-	-	-		
1608618-04	P85261-4	45	40	-	-	-		
1608618-05	P85261-5	45	40	-	-	-		
618-06	P85261-6	45	40	-	-	-		
618-07	P85261-7	45	40	-	-	-		
618-08	P85261-8	45	40	-	-	-		

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PREPARATION BENCH SHEET

F609389

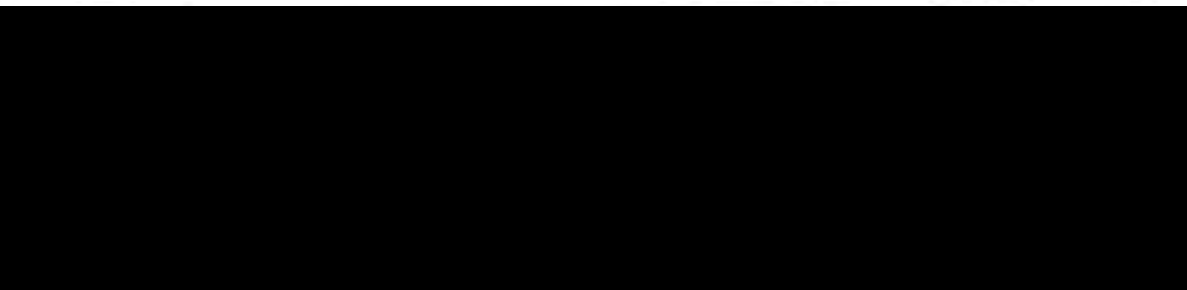
Eurofins Frontier Global Sciences, Inc.

Matrix: Water

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

Prepared: 9/15/2016

1608663-01	Rinse Blank	45	40	-	-	-	Rinse blank for tubing sent to AMEC Fi
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PREPARATION BENCH SHEET

F609314

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl 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
F609314-BLK1	Blank	0.5	250					
F609314-BLK2	Blank	0.5	250					
F609314-BLK3	Blank	0.5	250					
F609314-BS1	Blank Spike	0.5	250	1506872	25			
F609314-BSD1	Blank Spike Dup	0.5	250	1506872	25			
F609314-DUP1	Duplicate [1608072-01]	0.517	250					
F609314-MS1	Matrix Spike [1608072-01]	0.52	250	1506872	25			
F609314-MS2	Matrix Spike [1608323-01]	0.54	250	1506872	25			
F609314-MSD1	Matrix Spike Dup [1608072-01]	0.548	250	1506872	25			
F609314-MSD2	Matrix Spike Dup [1608323-01]	0.548	250	1506872	25			

Standard ID(s): 1506872
Description: MHg New Primary 100 ng/mL spike

Expiration: 03-Nov-16 00:00

<u>Reagent ID(s):</u> 1603399	<u>Description:</u> Boiling Chips for AFS prep	<u>Expiration:</u> 01-Jun-17 00:00
1604614	Acetate Buffer	15-Feb-17 00:00
1604634	Dichloromethane	15-Aug-19 00:00
1605015	Acid Bromide	30-Sep-16 00:00
1605166	Ethylating Agent (For Methyl Mercury Analysis)	05-Mar-17 00:00
1605302	CuSO4	16-Oct-16 00:00

PREPARATION BENCH SHEET

F609314

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/16/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608072-01	BO-04_072516_SED_03	0.58	250	QC	-	-	MS/MSD	
1608323-01	sand-1-top	0.559	250	-	-	-		
1608323-01RE1	sand-1-top	0.559	250	-	-	-	Added 9/17/2016 by DM2	Added 9/17/2016 by DM2
1608323-02	sand-1-bottom	0.561	250	-	-	-		
1608323-03	sand-2-top	0.556	250	-	-	-		
1608323-04	sand-2-bottom	0.525	250	-	-	-		
1608323-05	sand-3-top	0.554	250	-	-	-		
1608323-06	sand-3-bottom	0.57	250	-	-	-		
1608323-07	gravel-1-top	0.55	250	-	-	-		
1608323-07RE1	gravel-1-top	0.55	250	-	-	-	Added 9/17/2016 by DM2	Added 9/17/2016 by DM2
1608323-08	gravel-1-bottom	0.532	250	-	-	-		
1608323-09	gravel-2-top	0.574	250	-	-	-		
1608323-10	gravel-2-bottom	0.523	250	-	-	-		
1608323-11	gravel-3-top	0.564	250	-	-	-		
1608323-12	gravel-3-bottom	0.559	250	-	-	-		
1608361-05	OCE-11	0.544	250	-	-	-		
1608361-06	OCE-14	0.575	250	-	-	-		
1608361-07	OCE-15	0.572	250	-	-	-		
1608361-08	OCE-11-1	0.569	250	-	-	-		

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Date: 9/6/2016

PREPARATION BENCH SHEET

F609314

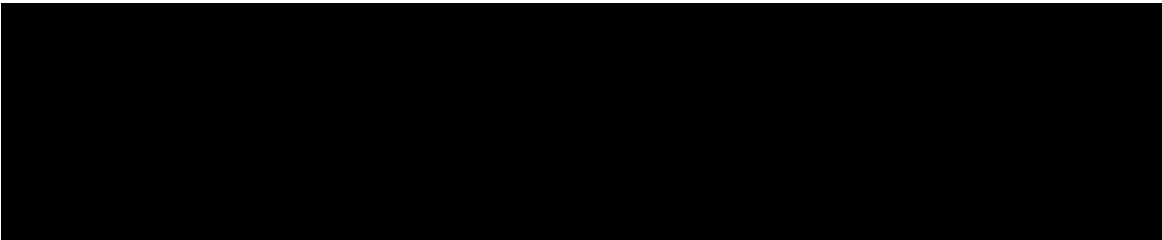
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/16/2016

1608361-09	OCE-11-2	0.538	250	-	-	-		
1608361-10	OCE-11-3	0.59	250	-	-	-		
1608361-11	OCE-11-4	0.557	250	-	-	-		



PREPARATION BENCH SHEET

RW 27001

GI16011

F609389

9/16/16

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

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

Prepared: 9/15/2016

Lab Number	Sample ID and Source Sample	Initial (mL)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609389-BLK1	Blank	45	40					1.25x
F609389-BLK2	Blank	45	40					1.25x
F609389-BLK3	Blank	45	40					1.25x
F609389-BS1	Blank Spike	45	40	1603908	45			1.25x
F609389-BSD1	Blank Spike Dup	45	40	1603908	45			1.25x
F609389-DUP1	Duplicate [1608566-01]	45	40					1.25x
F609389-MS1	Matrix Spike [1608361-53]	45	40	1603908	45			1.25x
F609389-MS2	Matrix Spike [1608517-01]	45	40	1603908	45			1.25x
F609389-MSD1	Matrix Spike Dup [1608361-53]	45	40	1603908	45			1.25x
F609389-MSD2	Matrix Spike Dup [1608517-01]	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): 1605365, 1605395
Description: APDC, 0.5% Distillation Dilute (Made Daily)

Expiration: 25-Feb-17 00:00, 14-Mar-17 00:00

1604614
1605171
1605166

PREPARATION BENCH SHEET

F609389

Eurofins Frontier Global Sciences, Inc.

Matrix: Water

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

Prepared: 9/15/2016

Lab Number	Sample ID	Initial (mL)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608361-46	OCE-A	45	40	-	-	-		1.25x
1608361-49	OCE-B	45	40	-	-	-		1.25x
1608361-53	EQ-2	45	40	-	-	-	Sample frozen during transit and the bo	1.25x
1608361-55	WB-2	45	40	-	-	-		1.25x
1608517-01	OL-2449-01	45	40	-	-	-	Scan all data for level IV report	1.25x
1608517-02	OL-2449-02	45	40	-	-	-	Scan all data for level IV report	1.25x
1608517-03	OL-2449-03	45	40	-	-	-	Scan all data for level IV report	1.25x
1608517-04	OL-2449-04	45	40	-	-	-	Scan all data for level IV report	1.25x
1608517-05	OL-2449-05	45	40	-	-	-	Scan all data for level IV report	1.25x
1608517-06	OL-2449-06	45	40	-	-	-	Scan all data for level IV report	1.25x
1608566-01	Eff-001 Grab	45	40	-	-	-		1.25x
1608618-01	P85261-1	45	40	-	-	-		1.25x
1608618-02	P85261-2	45	40	-	-	-		1.25x
1608618-03	P85261-3	45	40	-	-	-		1.25x
1608618-04	P85261-4	45	40	-	-	-		1.25x
1608618-05	P85261-5	45	40	-	-	-		1.25x
1608618-06	P85261-6	45	40	-	-	-		1.25x
1608618-07	P85261-7	45	40	-	-	-		1.25x
1608618-08	P85261-8	45	40	-	-	-		1.25x

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Date: 8/25/2016

PREPARATION BENCH SHEET

F609389

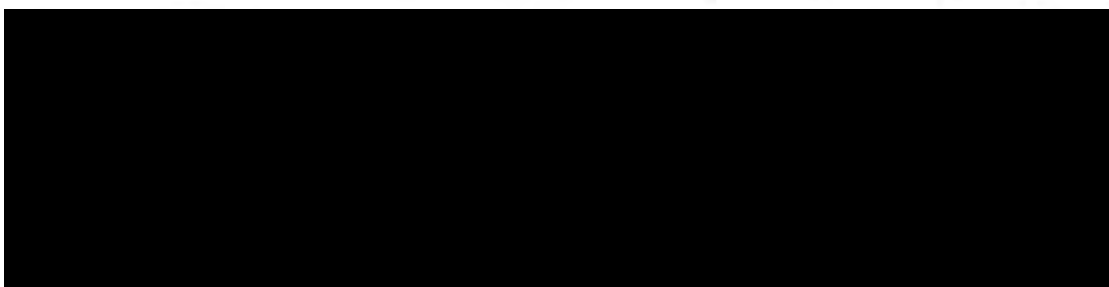
Eurofins Frontier Global Sciences, Inc.

Matrix: Water

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

Prepared: 9/15/2016

1608663-01	Rinse Blank	45	40	-	-	-	Rinse blank for tubing sent to AMEC Fi	1.25x
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Methyl Mercury Distillations (EPA 1630)

Name: Dwyer Date: 9/15/16 Batch #: F609389 Sample Matrix: Water
 WO#: 1608361, 1608517, 1608566, 1608618, 1608663.

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	F609389 Blank1	1.0	45	3.0	Spike ID: <u>1603908</u> Spike Amount: <u>45</u> µL Spike Witness: <u>DM 9-15-16</u> Balance #: <u>2</u> Calibrated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Pipette #: <u>CJ17087</u> Cal. Date: <u>9/14/16</u> Pipette #: <u>m24486</u> Cal. Date: <u>9/15/16</u> Pipette #: <u>N277087</u> Cal. Date: <u>9/15/16</u> APDC ID: <u>1605365</u> HCl ID: <u>1605345</u> Temperature: No set range as the temp. may be changed to keep flow rate of ≥10 mL per hour. Temperature is recorded for informational purposes only. Unit 1: <u>120.6</u> Unit 2: <u>122.</u> Unit 3: <u>120.4</u> Unit 4: <u>120.6</u> Unit 5: <u>122.</u> Unit 6: <u>122.</u> Comments: Dupl source: 1608566-01 MS1, MS01 1608361-53 MS2, MS02 1608517-01 9-15-16 DW Pine Tape
Blk2	F609389 Blank2	1.0	45	3.0	
Blk3	F609389 Blank3	1.0	45	3.0	
BS1	F609389 BS1	1.0	45	3.0	
BS01	F609389 BS01	1.0	45	3.0	
Dup1	F609389 Dup1	1.0	45	3.0	
MS1	F609389 MS1	1.0	45	4.0	
MS01	F609389 MS01	1.0	45	4.0	
MS2	F609389 MS2	1.0	45	3.0	
MS02	F609389 MS02	1.0	45	3.0	
1	1608361-46 A	1.0	45	3.0	
2	1608361 49 A	1.0	45	3.0	
3	1608361 53B ^{9/15/16}	1.0	45	4.0	
4	1608361 55 A	1.0	45	4.0	
5	1608517-01 B	1.0	45	3.0	
6	1608517-02 B	1.0	45	3.0	
7	1608517-03 B	1.0	45	3.0	
8	1608517-04 B	1.0	45	3.0	
9	1608517-05 B	1.0	45	4.0	
10	1608517-06 B	1.0	45	4.0	
11	1608566-01 B	1.0	45	4.0	
12	1608618-01 B	1.0	45	4.0	
13	1608618-02 B	1.0	45	3.0	
14	1608618-03 B	1.0	45	3.0	
15	1608618-04 B	1.0	45	3.0	
16	1608618-05 B	1.0	45	3.0	
17	1608618-06 B	1.0	45	3.0	
18	1608618-07 B	1.0	45	3.0	
19	1608618-08 B	1.0	45	3.0	
20	1608663-01 B	1.0	45	3.0	
			9/15/16	DW	

RW 9/16/16 27001 6216012

PREPARATION BENCH SHEET

F609314

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl2 Extraction for Methyl Hg

Prepared: 9/9/2016

Lab Number	Sample ID and Source Sample	Initial (g)	Final (mL)	Spike1 ID	µl Spike1	Spike2 ID	µl Spike2	Extraction Comments
F609314-BLK1	Blank	0.5	250					1x
F609314-BLK2	Blank	0.5	250					1x
F609314-BLK3	Blank	0.5	250					1x
F609314-BS1	Blank Spike	0.5	250	1506872	25			10x
F609314-BSD1	Blank Spike Dup	0.5	250	1506872	25			10x
F609314-DUP1	Duplicate [1608072-01]	0.517	250					1x
F609314-MS1	Matrix Spike [1608072-01]	0.52	250	1506872	25			10x
F609314-MS2	Matrix Spike [1608323-01]	0.54	250	1506872	25			10x
F609314-MSD1	Matrix Spike Dup [1608072-01]	0.548	250	1506872	25			10x
F609314-MSD2	Matrix Spike Dup [1608323-01]	0.548	250	1506872	25			10x

<u>Standard ID(s):</u> 1506872	<u>Description:</u> MHg New Primary 100 ng/mL spike	<u>Expiration:</u> 03-Nov-16 00:00	<u>Reagent ID(s):</u> 1603399 1604634 1605015 1605302	<u>Description:</u> Boiling Chips for AFS prep Dichloromethane Acid Bromide CuSO4	<u>Expiration:</u> 01-Jun-17 00:00 15-Aug-19 00:00 30-Sep-16 00:00 16-Oct-16 00:00
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1605166
1604614

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PREPARATION BENCH SHEET

RV 9/10/16

F609314

Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/9/2016

Lab Number	Sample ID	Initial (g)	Final (mL)	QC Sample	Sample Specs.	Raw Data	Sample Comments	Analysis Comments
1608072-01	BO-04_072516_SED_03	0.58	250	QC	-	-	MS/MSD	1x
1608323-01	sand-1-top	0.559	250	-	-	-		2500x → 5x
1608323-02	sand-1-bottom	0.561	250	-	-	-		5x
1608323-03	sand-2-top	0.556	250	-	-	-		5x
1608323-04	sand-2-bottom	0.525	250	-	-	-		5x
1608323-05	sand-3-top	0.554	250	-	-	-		5x
1608323-06	sand-3-bottom	0.57	250	-	-	-		5x
1608323-07	gravel-1-top	0.55	250	-	-	-		2500x → 5x
1608323-08	gravel-1-bottom	0.532	250	-	-	-		5x
1608323-09	gravel-2-top	0.574	250	-	-	-		5x
1608323-10	gravel-2-bottom	0.523	250	-	-	-		5x
1608323-11	gravel-3-top	0.564	250	-	-	-		5x
1608323-12	gravel-3-bottom	0.559	250	-	-	-		5x
1608361-05	OCE-11	0.544	250	-	-	-		1x
1608361-06	OCE-14	0.575	250	-	-	-		1x
1608361-07	OCE-15	0.572	250	-	-	-		1x
1608361-08	OCE-11-1	0.569	250	-	-	-		1x
1608361-09	OCE-11-2	0.538	250	-	-	-		1x
1608361-10	OCE-11-3	0.59	250	-	-	-		1x

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Date: 9/6/2016

PREPARATION BENCH SHEET

m 9/10/16

F609314

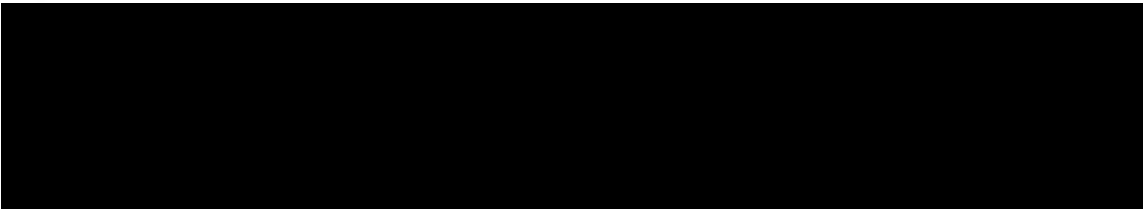
Eurofins Frontier Global Sciences, Inc.

Matrix: Soil/Sediment

Prepared using: Hg Aquatic/Solids - EFGS-045 MeCl₂ Extraction for Methyl Hg

Prepared: 9/9/2016

1608361-11	OCE-11-4	0.557	250	-	-	-	/α
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Methyl Mercury Sediment Preparation : EFAPS-T-AFS-SOP5134

Technician: Dwyer Batch#: F609314 Date: 9/12/16

Heat Block 45°C (nitrogen purge for 30 minutes). Balance#: 106 Calibrated? Yes No

Date of purging:	Actual Temp (raw) °C	W/CF °C	Hot Block Unit # (10 or 11)	Date of purging:	Actual Temp (raw) °C	W/CF °C	Hot Block Unit # (10 or 11)
1 st time in: <u>7:55</u>	<u>7:55</u>	<u>49.7/50.1</u>	<u>11</u>	1 st time in:			
1 st time out: <u>8:25</u>	<u>50.0</u>	<u>50.0/50.4</u>	<u>11</u>	1 st time out:			
2 nd time in: <u>8:30</u>	<u>50.1</u>	<u>50.5</u>	<u>10</u>	2 nd time in:			
2 nd time out: <u>9:00</u>	<u>50.6</u>	<u>50.5/51.0</u>	<u>10</u>	2 nd time out:			
3 rd time in: <u>9:05</u>	<u>49.9</u>	<u>50.3</u>	<u>11</u>	3 rd time in:			
3 rd time out: <u>9:35</u>	<u>49.9</u>	<u>49.3</u>	<u>11</u>	3 rd time out:			
4 th time in: <u>9:40</u>	<u>50.1</u>	<u>50.5</u>	<u>10</u>	4 th time in:			
4 th time out: <u>10:10</u>	<u>50.3</u>	<u>50.7</u>	<u>10</u>	4 th time out:			

Final vol.: 50 mL (LIMS ID: N/A) Spike vol.: 25 µL (LIMS ID: 1506872)

Spike Witness: on 9/15/16 (initial and date)

Acid Bromide LIMS ID: 1605015

Pipette SN#: 1224486 Calibration Date: 9/15/16

CH₂Cl₂ LIMS ID: 1604634

Pipette SN#: CJ17087 Calibration Date: 9/14/16

CuSO₄ LIMS ID: 1605302

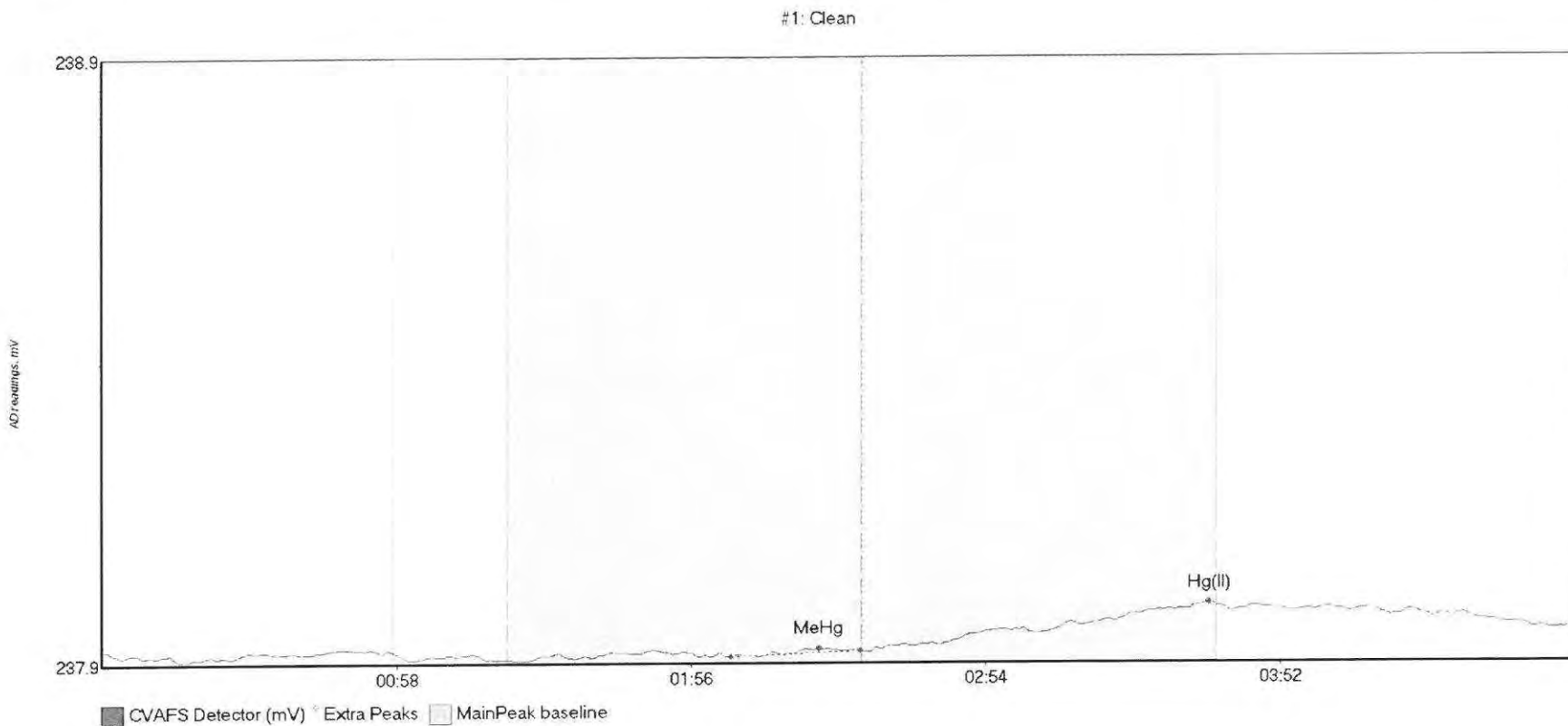
Dispenser #: 1219647 Calibrated? Yes No

Other Acid LIMS ID: N/A

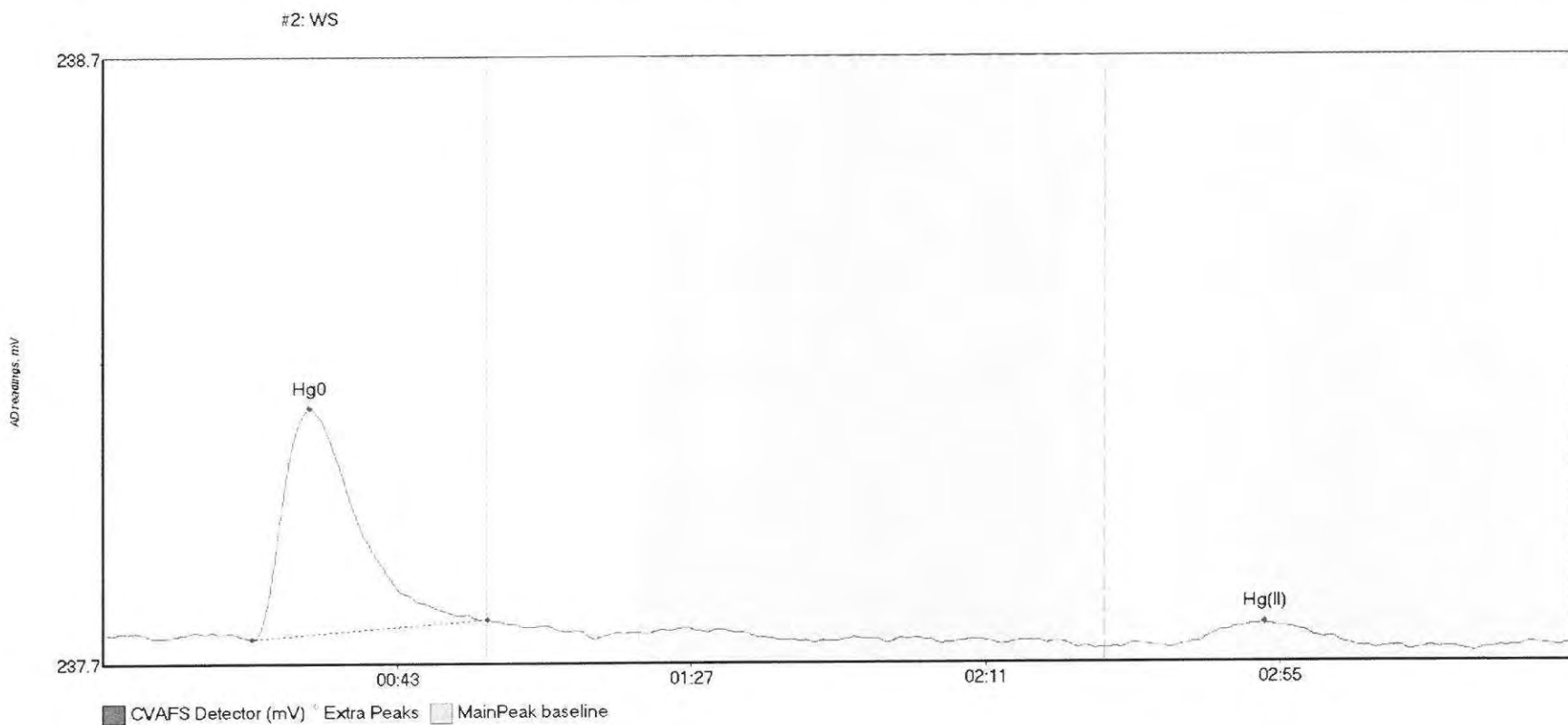
Boiling Chip lot # 1603399

Centrifuge Tube Lot #: J237721-6560

Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	Vial #	Sample ID Number	Sample Size <input type="checkbox"/> mL <input checked="" type="checkbox"/> µg	Comments
1	F609314 Blank1	0.529	23	1608723-12A	0.559	Thermometer SN: <u>9/16/16</u>
2	F609314 Blank2	0.507	24	1608761-05	0.544	<u>4/9/16/04</u>
3	F609314 Blank3	0.510	25	1608761-06	0.575	<u>140/18015</u>
4	F609314 BS1	0.527	26	1608761-07	0.572	<u>Dupl, MS1, MS01</u>
5	F609314 BS01	0.498	27	1608761-08	0.569	<u>1608072-01</u>
6	F609314 Dupl	0.517	28	1608761-09	0.538	<u>source</u>
7	F609314 MS1	0.520	29	1608761-10	0.590	<u>MS2 MS02</u>
8	F609314 MS01	0.548	30	1608761-11	0.557	<u>1608323-01</u>
9	F609314 MS2	0.540	31			<u>weigh 9/16/16</u>
10	F609314 MS02	0.548	32			<u>weigh samples</u>
11	1608072-01	0.580	33			<u>on 9/12/16</u>
12	1608323-01A	0.559	34			<u>wt</u>
13	1608323-02A	0.561	35			<u>Add Acid Bromate</u>
14	1608323-03A	0.556	36			<u>on 9/15/16 wt</u>
15	1608323-04A	0.525	37			<u>Purge samples</u>
16	1608323-05A	0.554	38			<u>on 9/16/16 wt</u>
17	1608323-06A	0.570	39			
18	1608323-07A	0.550	40			
19	1608323-08A	0.532	41			
20	1608323-09A	0.574	42			
21	1608323-10A	0.523	43			
22	1608323-11A	0.564	44			

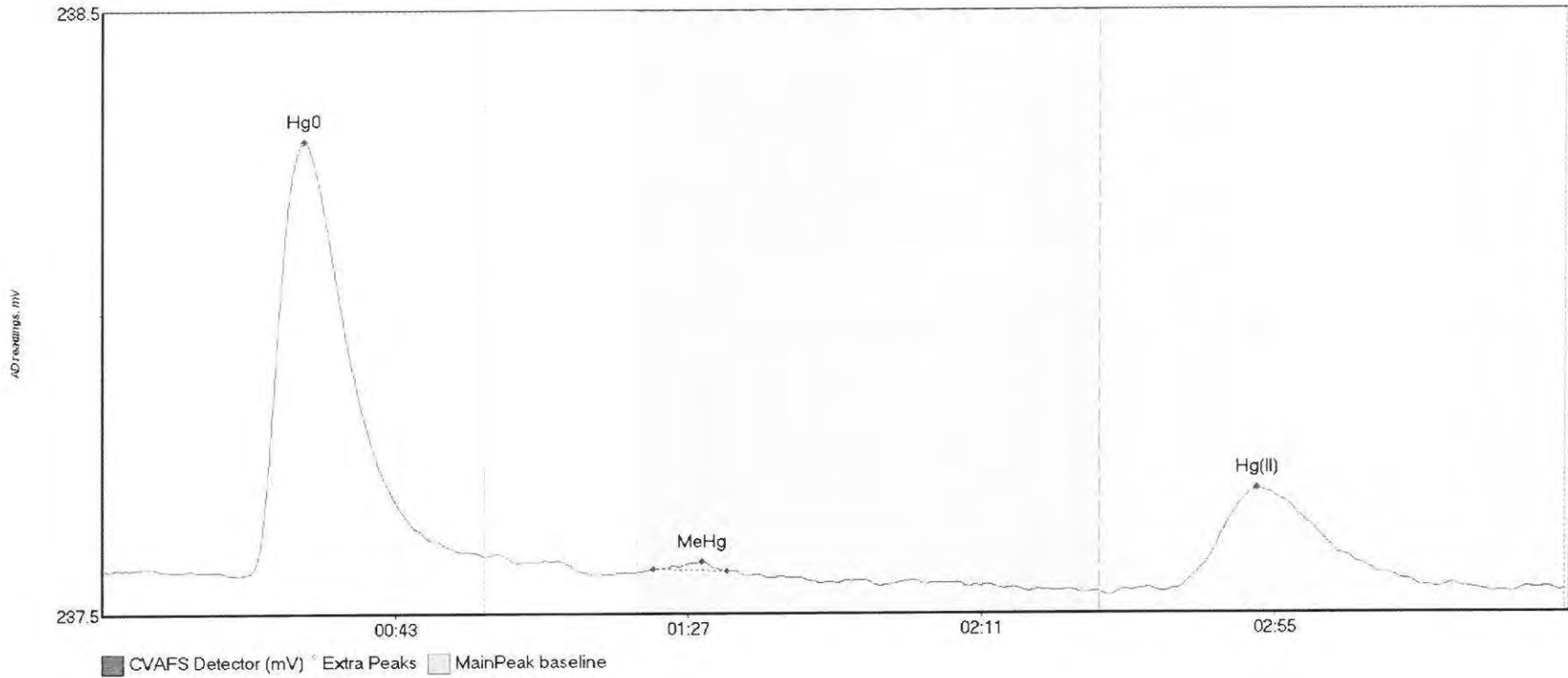


Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
Clean MeHg	0.815	124.3	149.8	237.89	237.90	141.6	0.013	OK	237.9035	0.00	0.04	
Clean Hg(II)	0.918	154.0	219.8	237.90	237.98	218.7	0.076	CT	237.9035	0.00	0.04	016



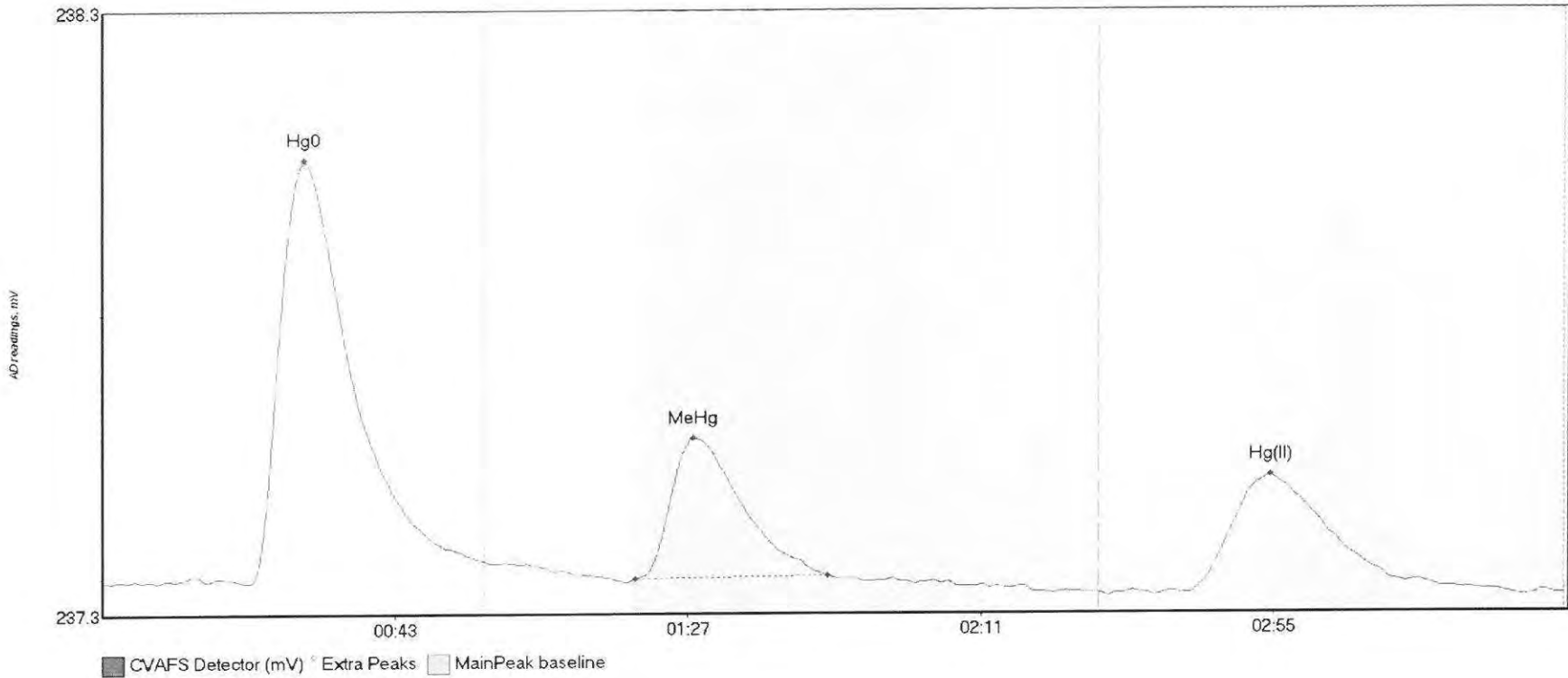
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
WS Hg0	47.479	22.4	57.5	237.70	237.73	31.0	0.382	CT	237.7087	0.00	-0.02	
WS Hg(II)	6.086	160.2	188.0	237.68	237.68	173.7	0.038	OK	237.7087	0.00	-0.02	016

#3: SEQ-IBL1



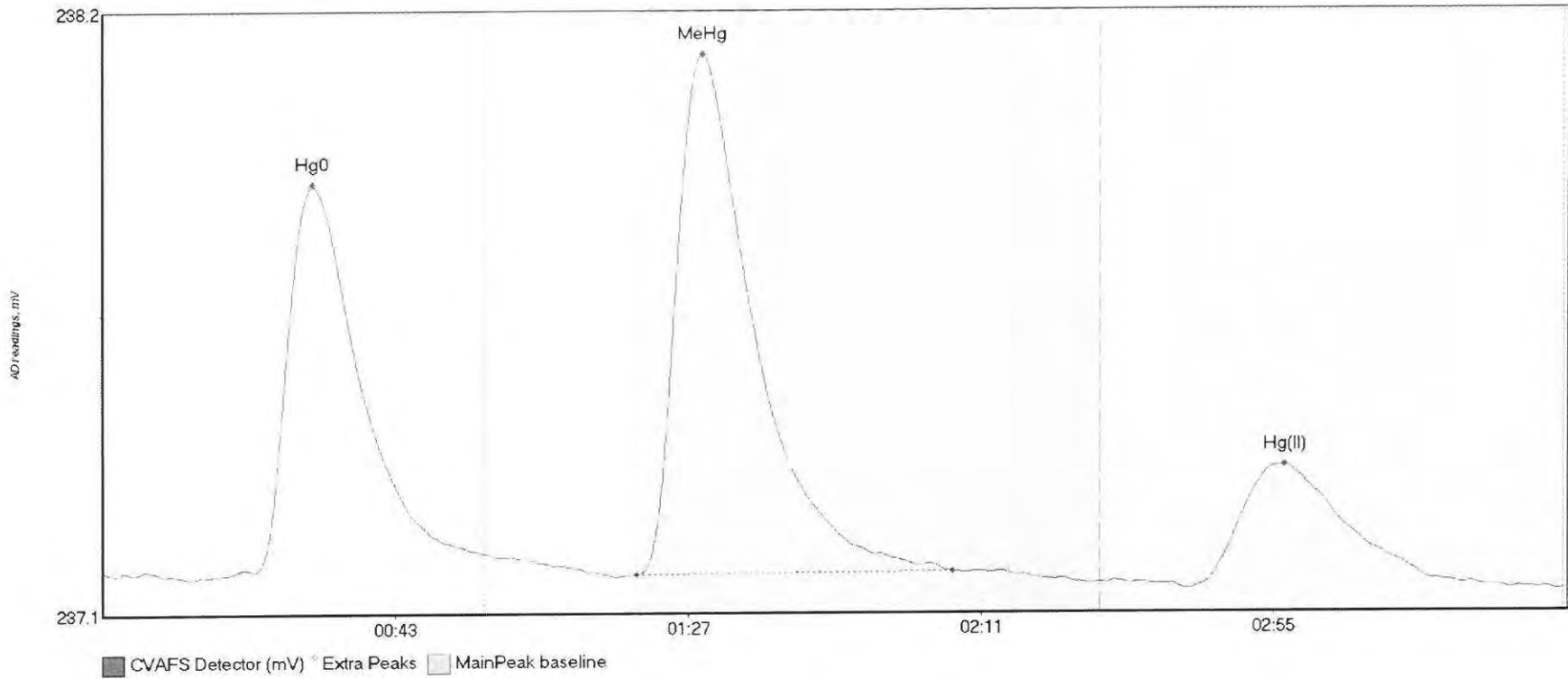
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-IBL1 Hg0	85.478	21.7	57.5	237.54	237.57	30.3	0.717	CT	237.5478	0.00	-0.03	
SEQ-IBL1 MeHg	0.780	82.8	93.9	237.55	237.55	90.1	0.012	OK	237.5478	0.00	-0.03	
SEQ-IBL1 Hg(II)	31.184	159.7	209.1	237.51	237.51	173.3	0.170	OK	237.5478	0.00	-0.03	

#4: SEQ-CAL1



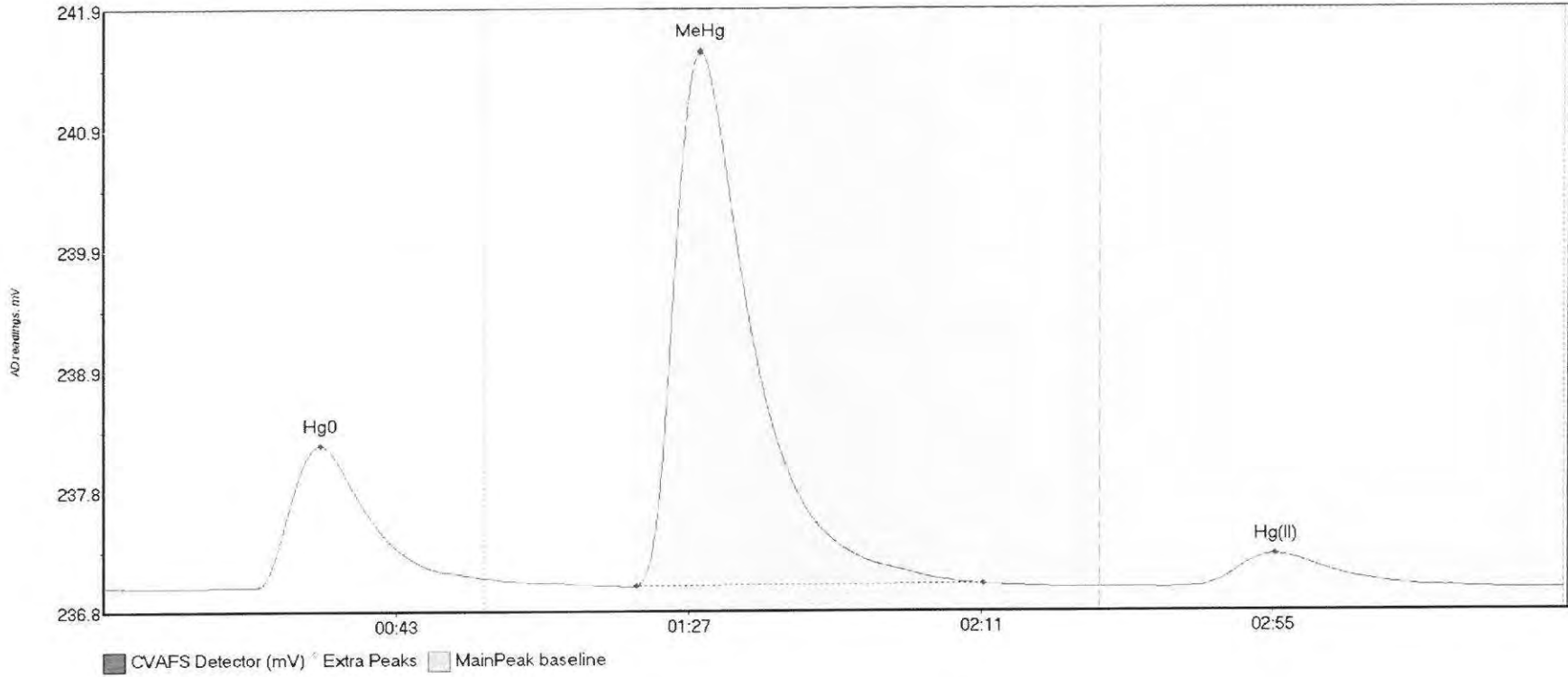
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL1 Hg0	85.255	22.1	57.5	237.37	237.41	30.5	0.699	CT	237.3722	0.00	-0.02	
SEQ-CAL1 MeHg	28.558	80.1	109.0	237.38	237.38	88.9	0.235	OK	237.3722	0.00	-0.02	
SEQ-CAL1 Hg(II)	32.947	163.5	211.2	237.35	237.35	175.6	0.195	OK	237.3722	0.00	-0.02	

#5: SEQ-CAL2



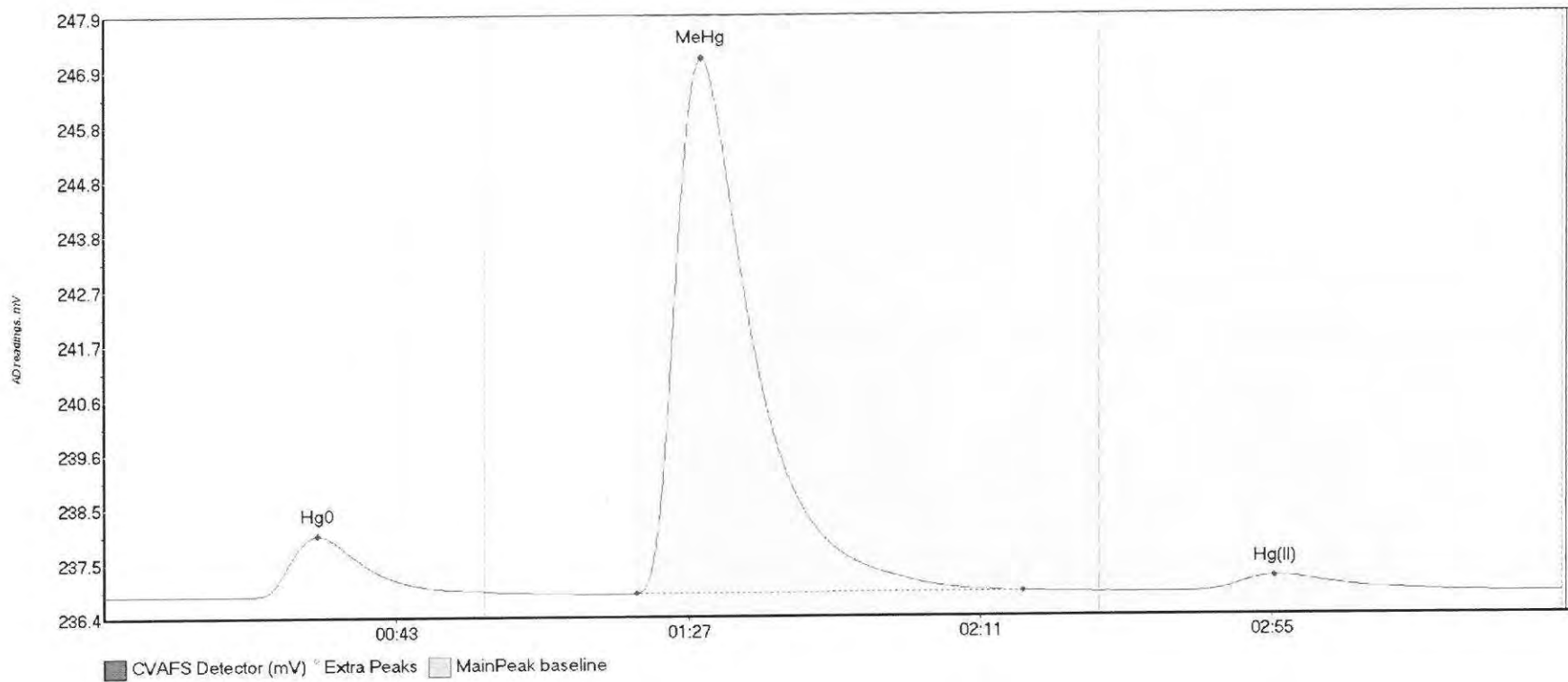
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL2 Hg0	83.345	22.9	57.3	237.22	237.25	31.6	0.689	OK	237.2130	0.00	-0.03	
SEQ-CAL2 MeHg	125.592	80.1	127.8	237.21	237.21	90.1	0.930	OK	237.2130	0.00	-0.03	
SEQ-CAL2 Hg(II)	37.315	163.2	201.7	237.18	237.19	177.8	0.221	OK	237.2130	0.00	-0.03	

#6: SEQ-CAL3



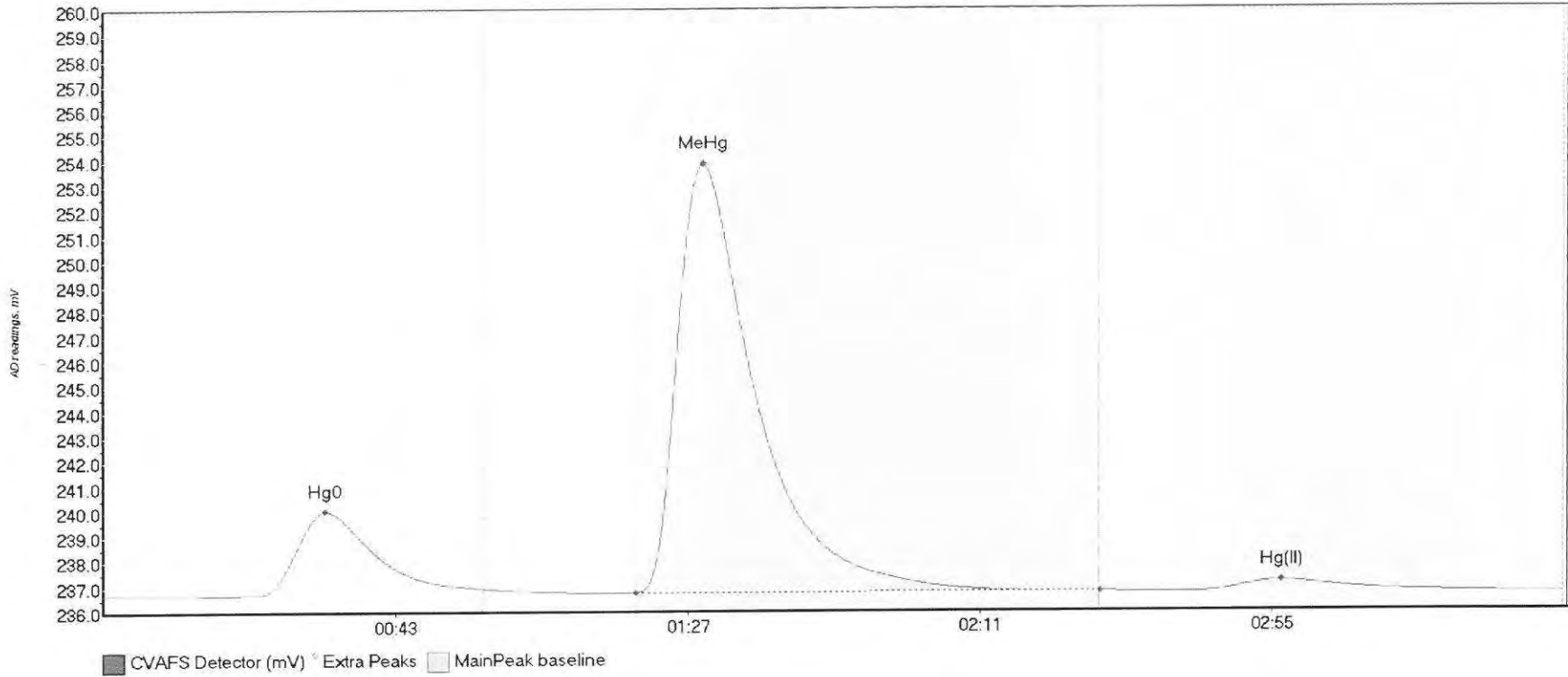
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL3 Hg0	153.954	22.1	57.5	237.03	237.11	32.7	1.201	CT	237.0411	0.00	-0.03	
SEQ-CAL3 MeHg	616.297	80.1	132.3	237.05	237.06	89.8	4.505	OK	237.0411	0.00	-0.03	
SEQ-CAL3 Hg(II)	43.019	160.4	201.8	237.03	237.03	176.5	0.279	OK	237.0411	0.00	-0.03	

#7: SEQ-CAL4



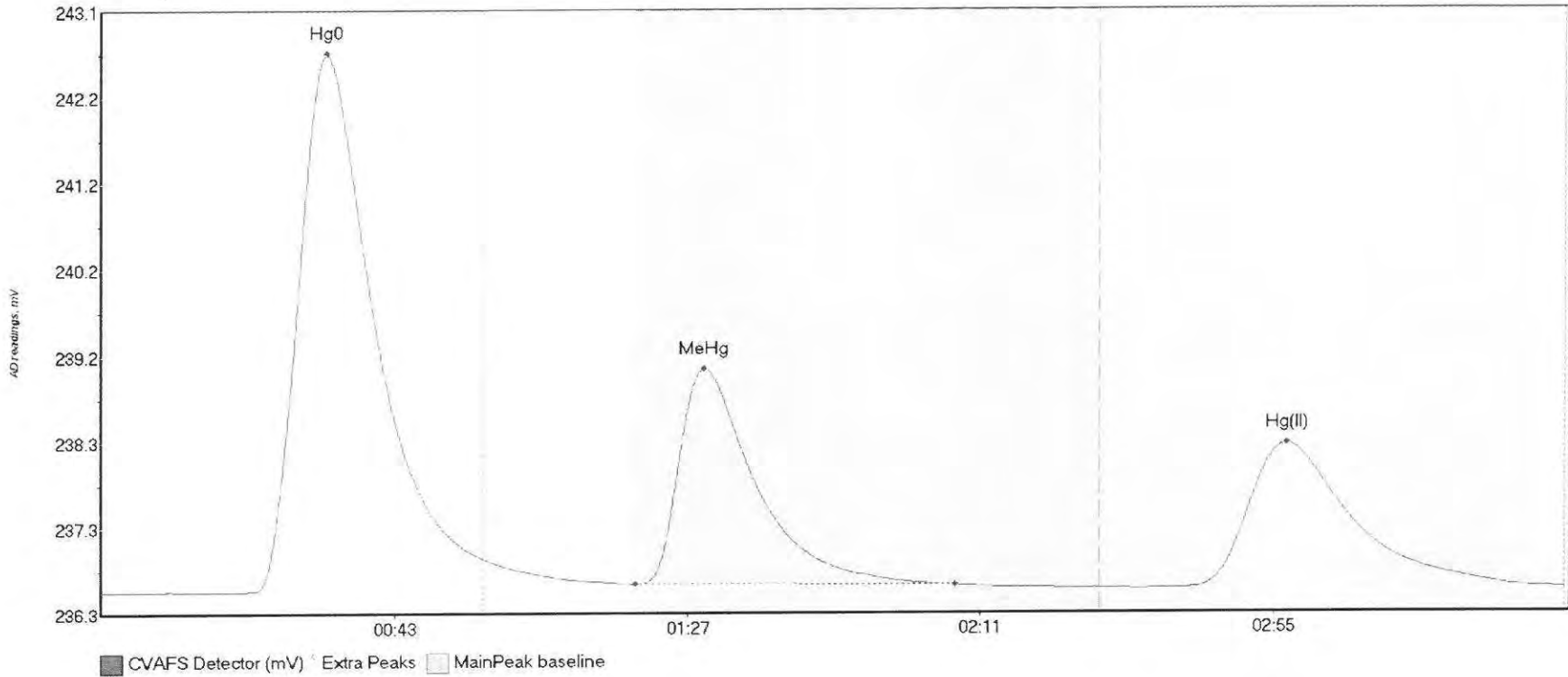
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL4 Hg0	141.328	21.2	57.5	236.87	236.94	32.2	1.149	CT	236.8653	0.00	-0.01	
SEQ-CAL4 MeHg	1398.890	80.1	138.5	236.89	236.91	89.9	10.227	OK	236.8653	0.00	-0.01	
SEQ-CAL4 Hg(II)	48.026	164.3	203.8	236.89	236.88	176.4	0.282	OK	236.8653	0.00	-0.01	

#8: SEQ-CAL5



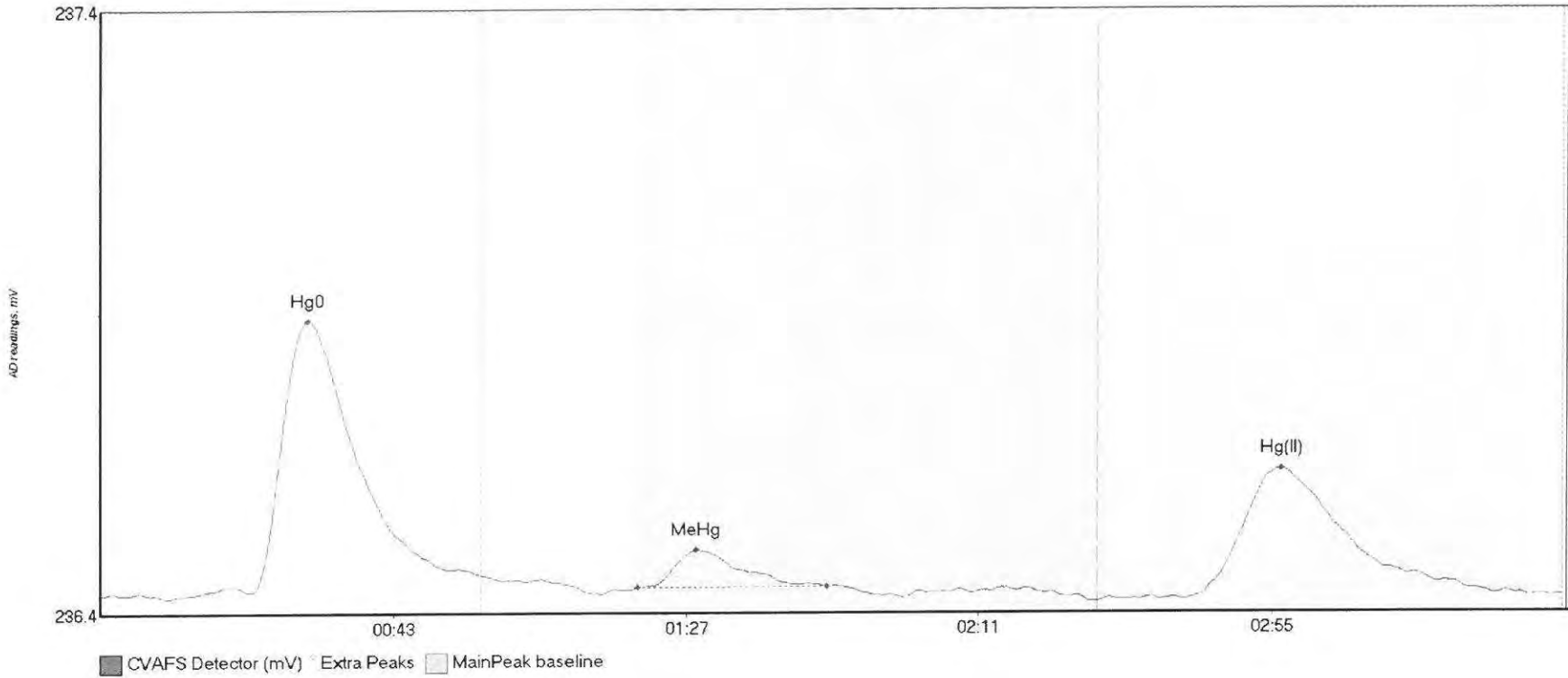
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CAL5 Hg0	414.343	19.0	57.5	236.70	236.93	33.5	3.339	CT	236.7037	0.00	0.02	
SEQ-CAL5 MeHg	2338.067	80.1	150.0	236.76	236.78	90.3	17.082	CT	236.7037	0.00	0.02	
SEQ-CAL5 Hg(II)	68.681	164.5	204.4	236.76	236.76	177.4	0.414	OK	236.7037	0.00	0.02	

#9: SEQ-ICV1



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICV1 Hg0	758.768	18.7	57.5	236.56	236.93	33.7	6.096	CT	236.5619	0.00	0.03	
SEQ-ICV1 MeHg	324.120	80.1	128.3	236.64	236.63	90.5	2.444	OK	236.5619	0.00	0.03	
SEQ-ICV1 Hg(II)	293.221	162.7	219.6	236.60	236.59	178.0	1.631	OK	236.5619	0.00	0.03	

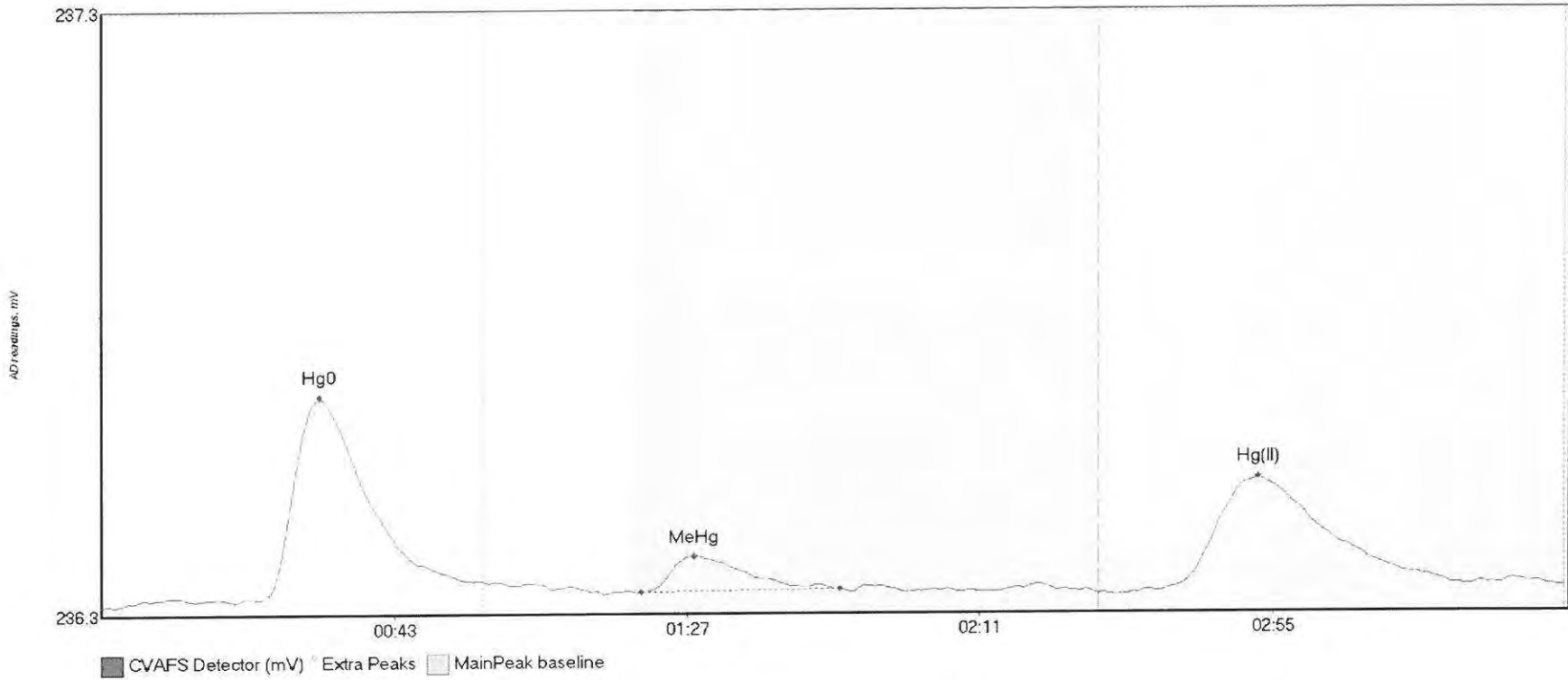
#10: SEQ-ICB1



✓

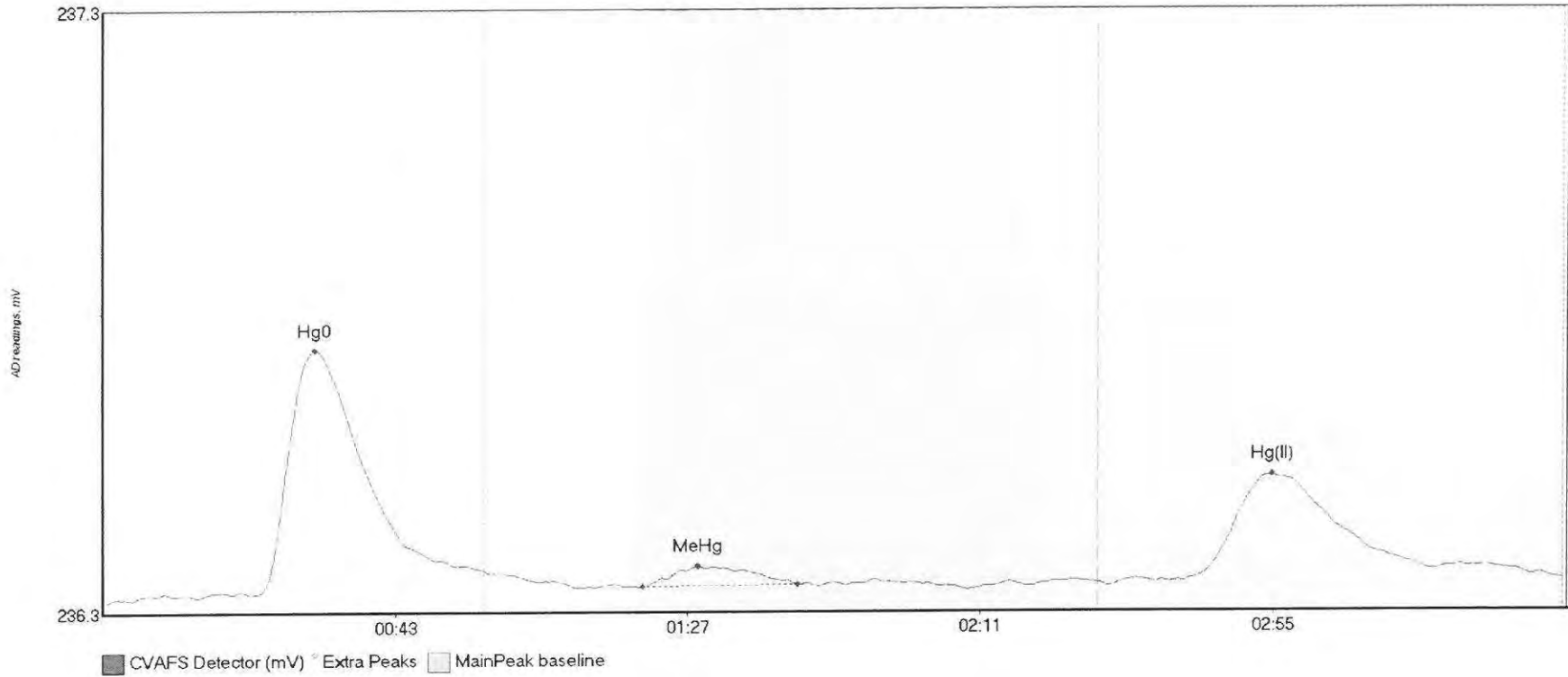
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-ICB1 Hg0	55.359	22.6	57.5	236.46	236.48	31.2	0.451	CT	236.4533	0.00	0.00	
SEQ-ICB1 MeHg	7.158	80.8	109.2	236.46	236.46	89.5	0.064	OK	236.4533	0.00	0.00	
SEQ-ICB1 Hg(II)	38.947	163.3	214.9	236.44	236.45	177.4	0.215	OK	236.4533	0.00	0.00	

#11: F609389-BLK1



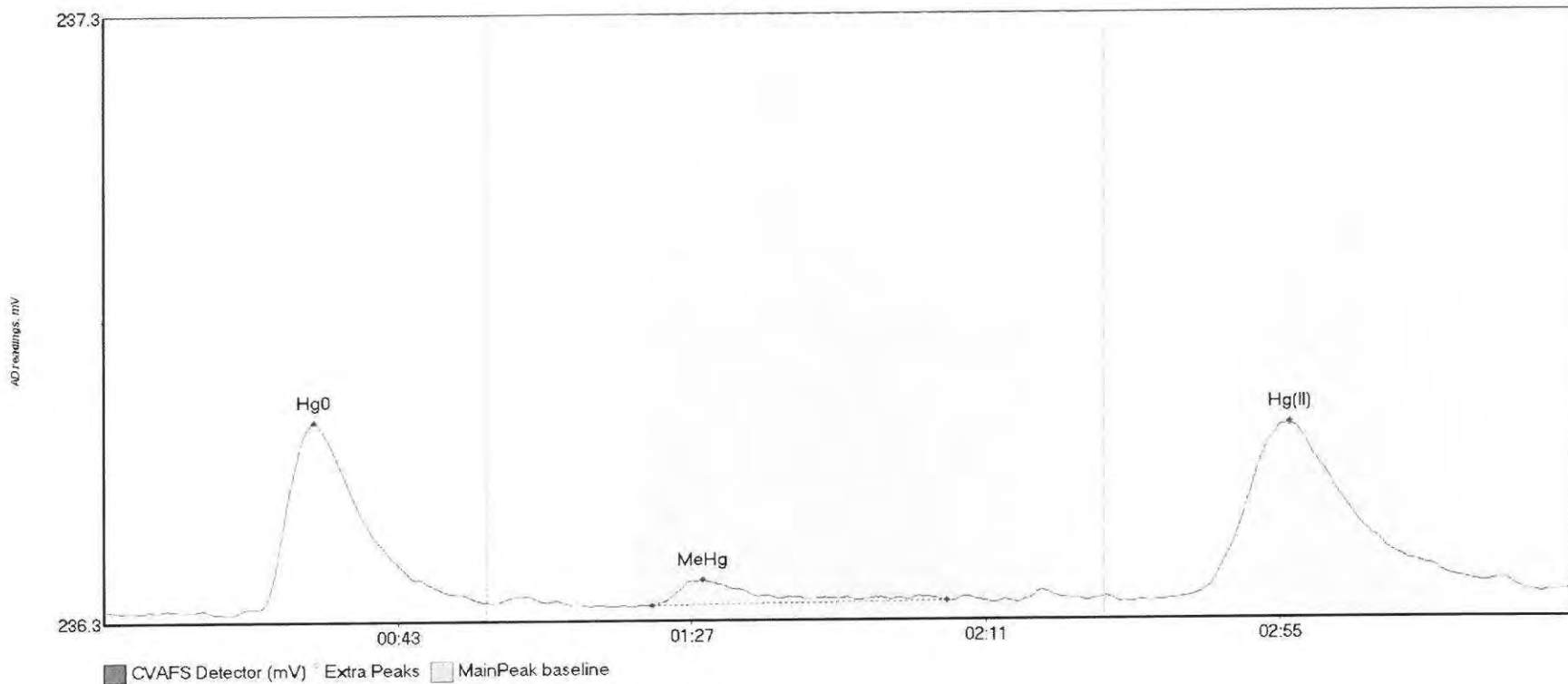
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609389-BLK1 Hg	39.364	4.7	57.5	236.29	236.32	32.7	0.340	CT	236.2843	0.00	0.03	
F609389-BLK1 Me	7.409	81.1	110.9	236.30	236.31	89.0	0.060	OK	236.2843	0.00	0.03	
F609389-BLK1 Hg	36.491	159.3	219.2	236.31	236.31	173.8	0.186	OK	236.2843	0.00	0.03	

#12: F609389-BLK2



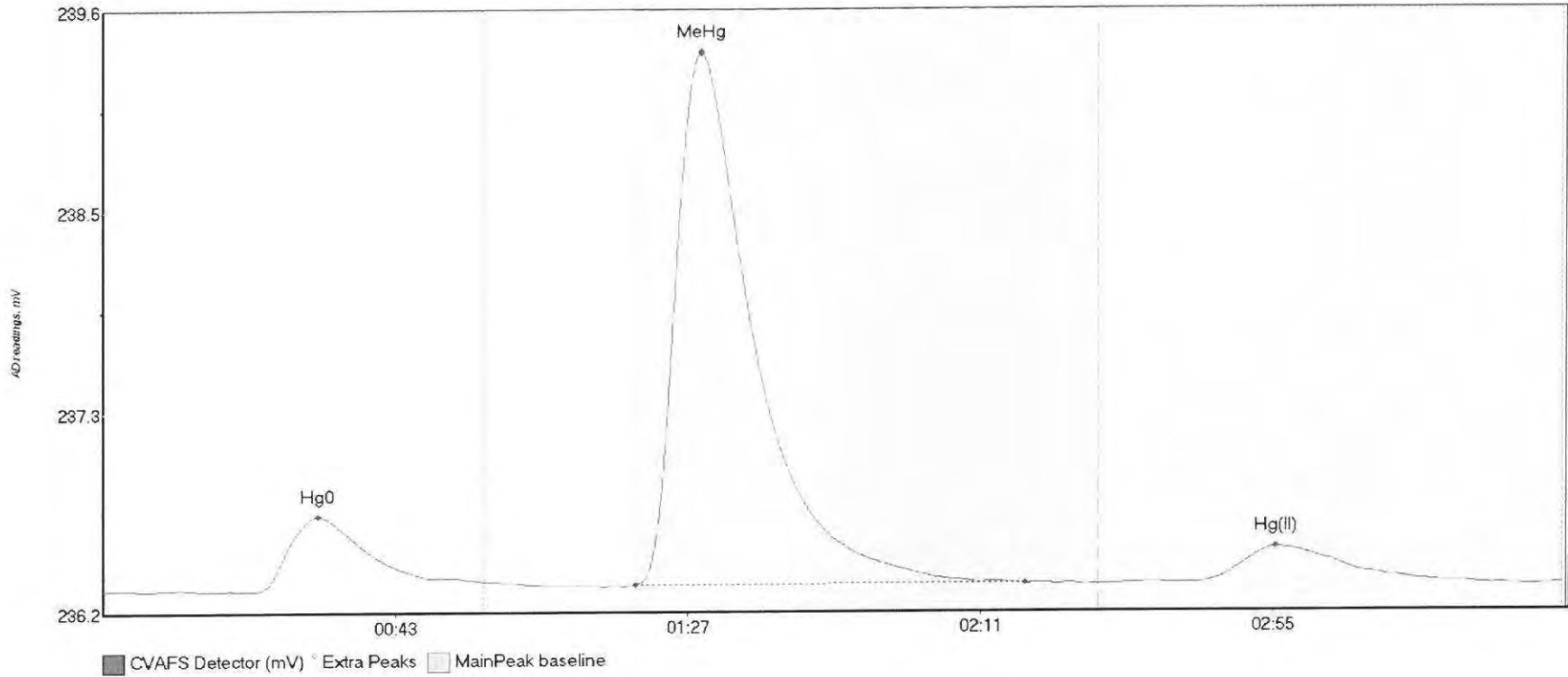
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
F609389-BLK2 Hg	49.176	4.5	57.5	236.29	236.33	31.9	0.416	CT	236.2824	0.00	0.04	
F609389-BLK2 Me	4.481	81.3	104.6	236.31	236.31	89.6	0.034	OK	236.2824	0.00	0.04	
F609389-BLK2 Hg	34.999	160.5	219.8	236.31	236.32	175.9	0.177	CT	236.2824	0.00	0.04	

#13: F609389-BLK3



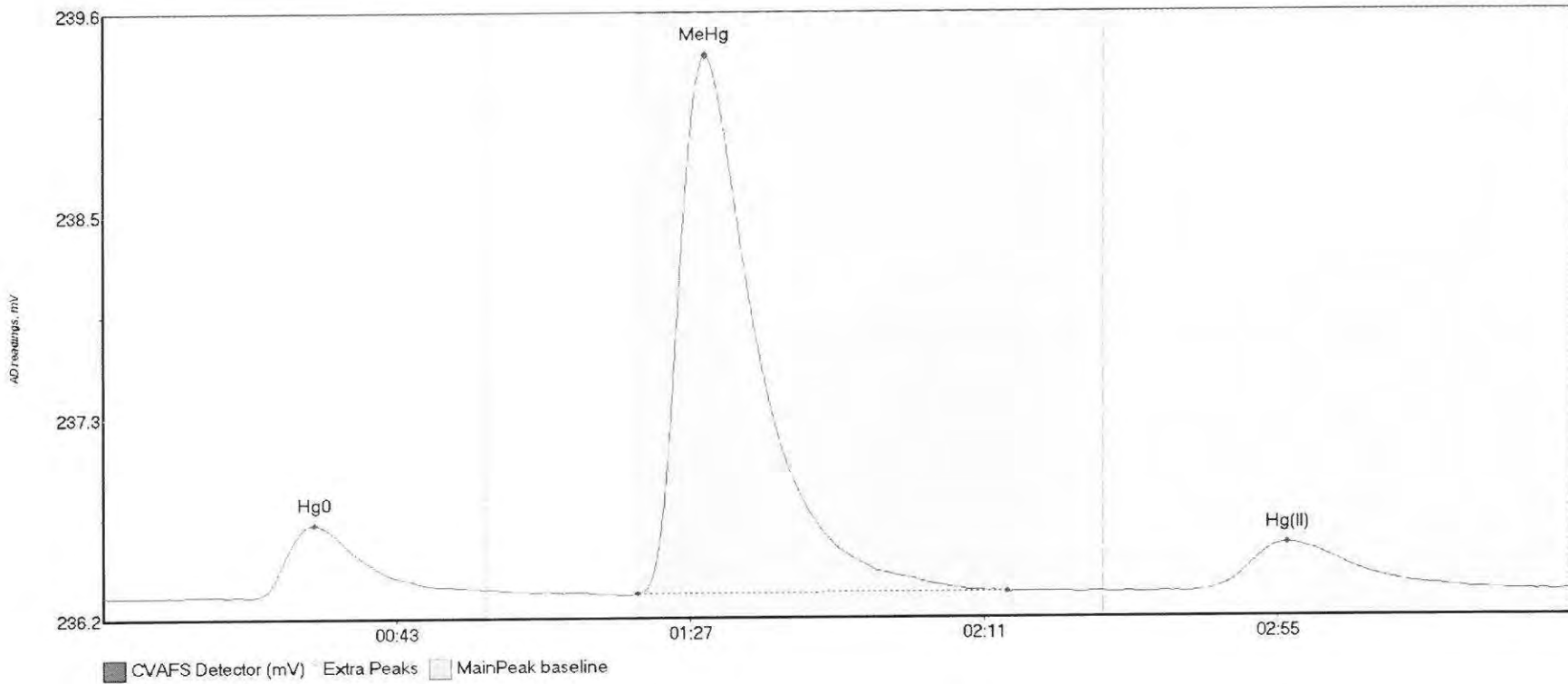
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609389-BLK3 Hg	38.373	23.1	57.5	236.32	236.32	31.6	0.308	CT	236.3116	0.00	0.03	
F609389-BLK3 Me	6.159	82.1	126.1	236.32	236.32	89.8	0.042	OK	236.3116	0.00	0.03	
F609389-BLK3 Hg	52.742	162.8	215.4	236.33	236.33	177.4	0.283	OK	236.3116	0.00	0.03	

#14: F609389-BS1



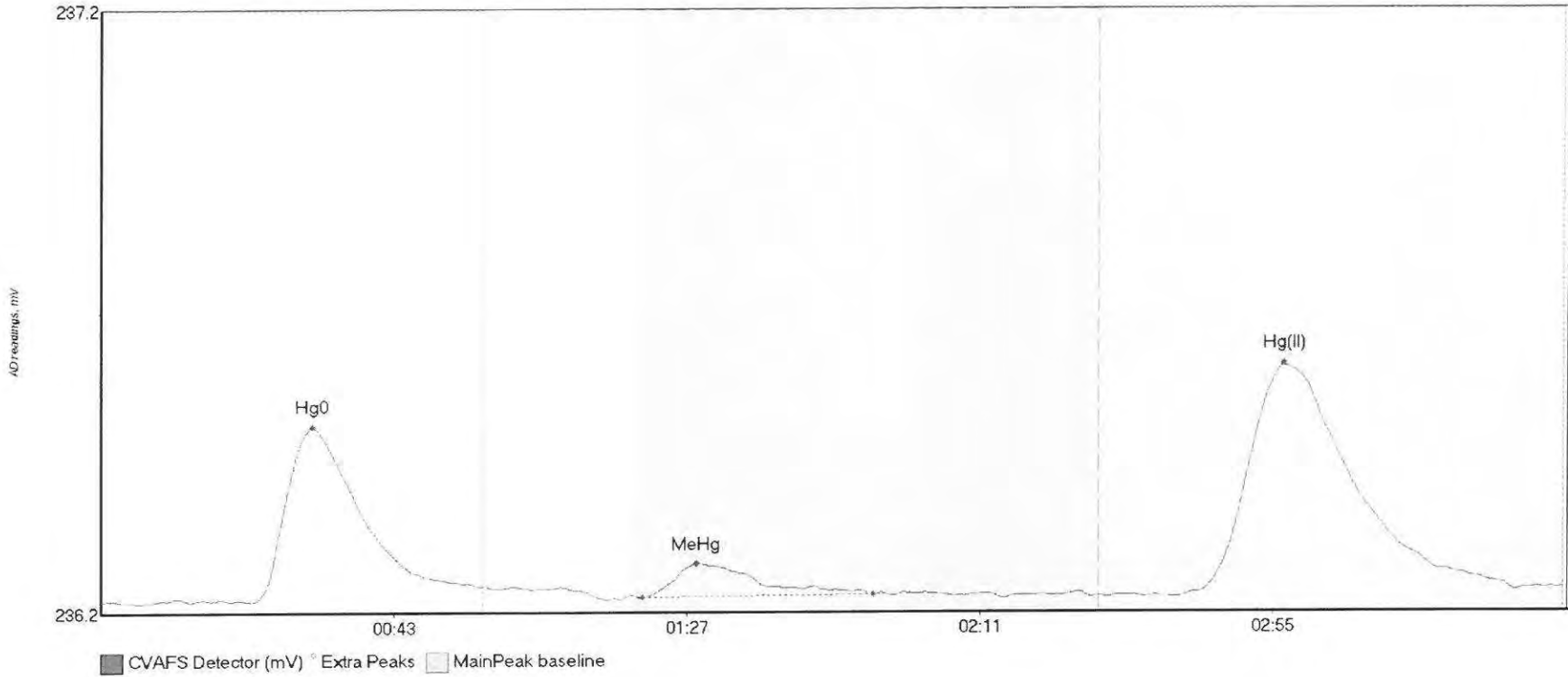
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609389-BS1 Hg0	54.344	22.7	57.4	236.30	236.35	32.4	0.428	OK	236.3096	0.00	0.03	
F609389-BS1 MeH	413.860	80.1	138.8	236.33	236.34	90.1	3.027	OK	236.3096	0.00	0.03	
F609389-BS1 Hg(	35.916	153.0	206.8	236.34	236.34	176.5	0.207	OK	236.3096	0.00	0.03	

#15: F609389-BSD1



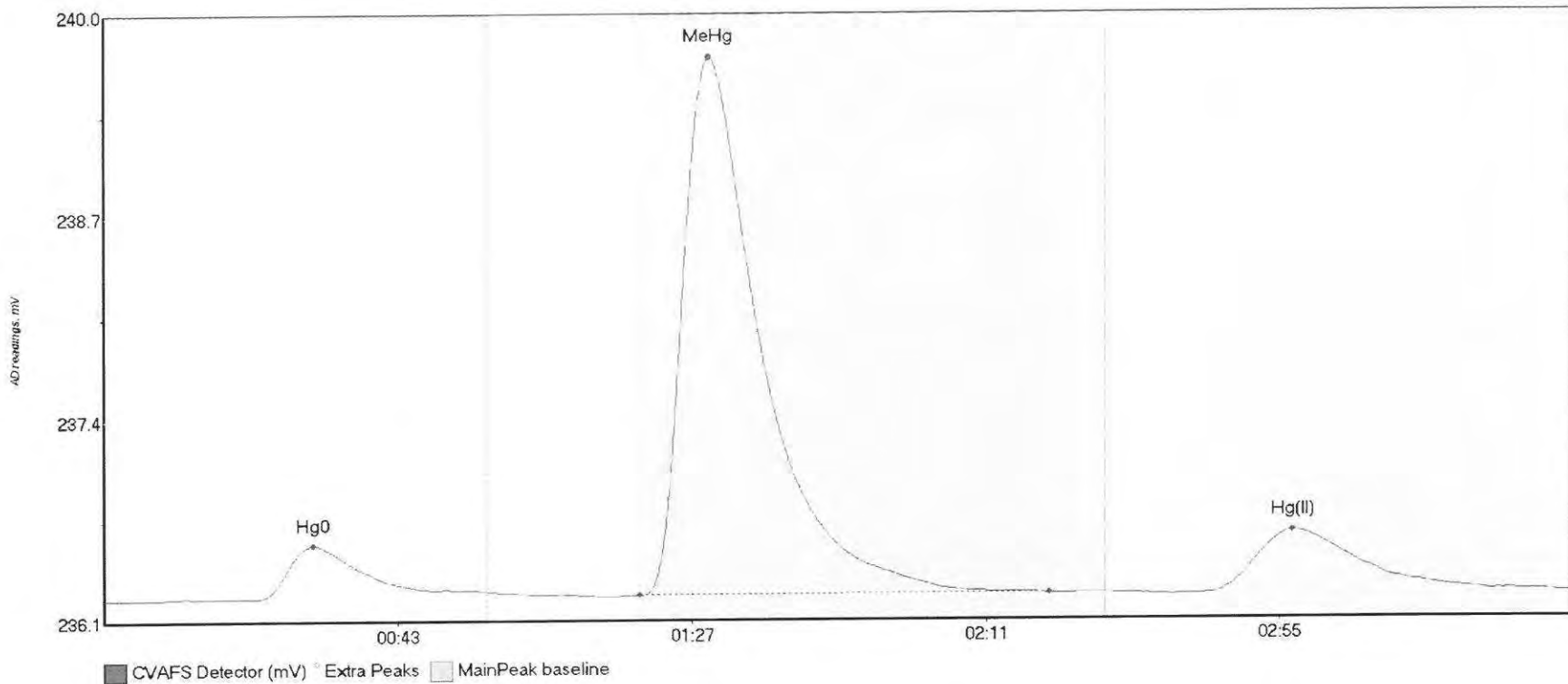
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
F609389-BSD1 Hg	51.091	22.2	57.4	236.29	236.33	31.8	0.411	OK	236.2938	0.00	0.02	
F609389-BSD1 Me	417.045	80.1	135.5	236.30	236.31	90.2	3.067	OK	236.2938	0.00	0.02	
F609389-BSD1 Hg	48.843	162.3	211.2	236.31	236.31	177.4	0.276	OK	236.2938	0.00	0.02	

#16: F609389-DUP1



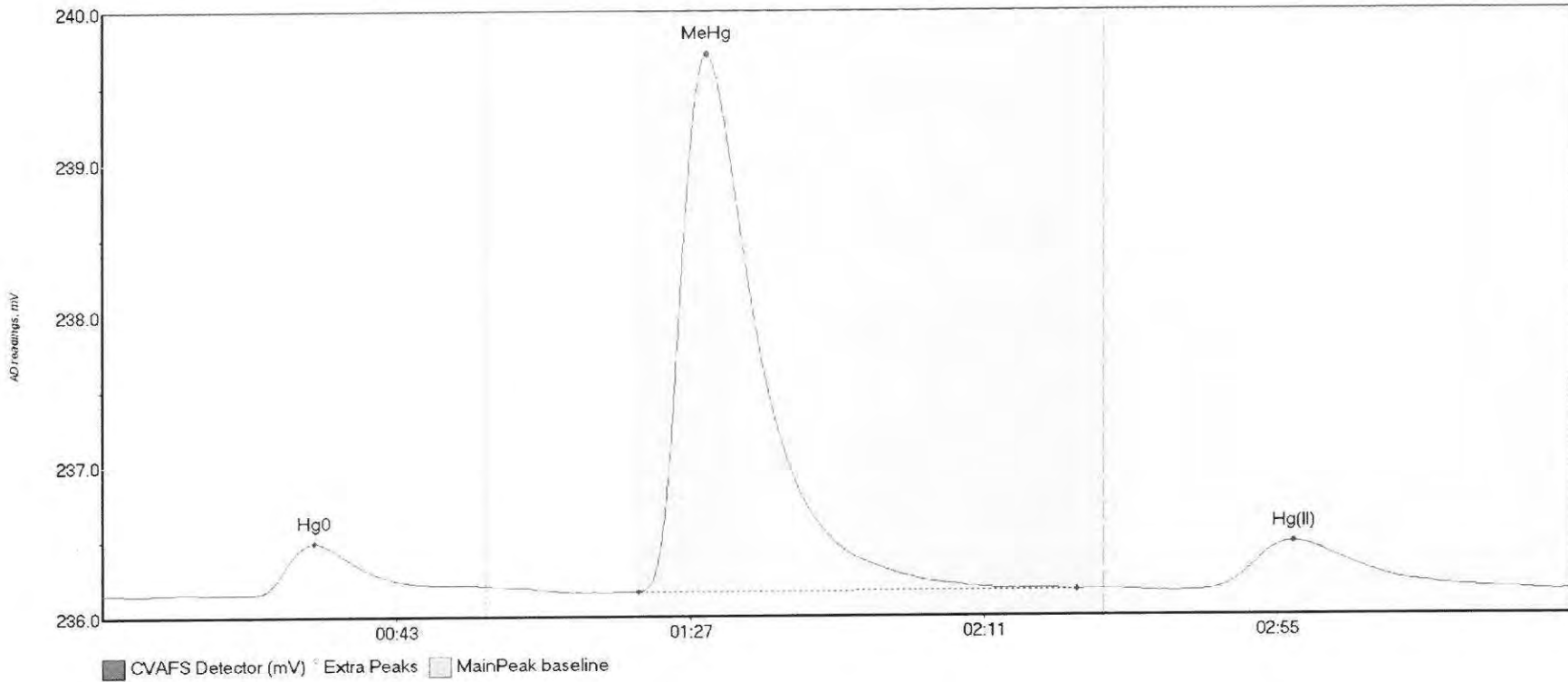
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609389-DUP1 Hg	35.665	22.6	57.0	236.25	236.28	31.7	0.290	OK	236.2534	0.00	0.02	
F609389-DUP1 Me	8.245	81.3	116.0	236.26	236.26	89.5	0.057	OK	236.2534	0.00	0.02	
F609389-DUP1 Hg	69.021	161.3	212.6	236.26	236.27	177.7	0.386	OK	236.2534	0.00	0.02	

#17: F609389-MS1



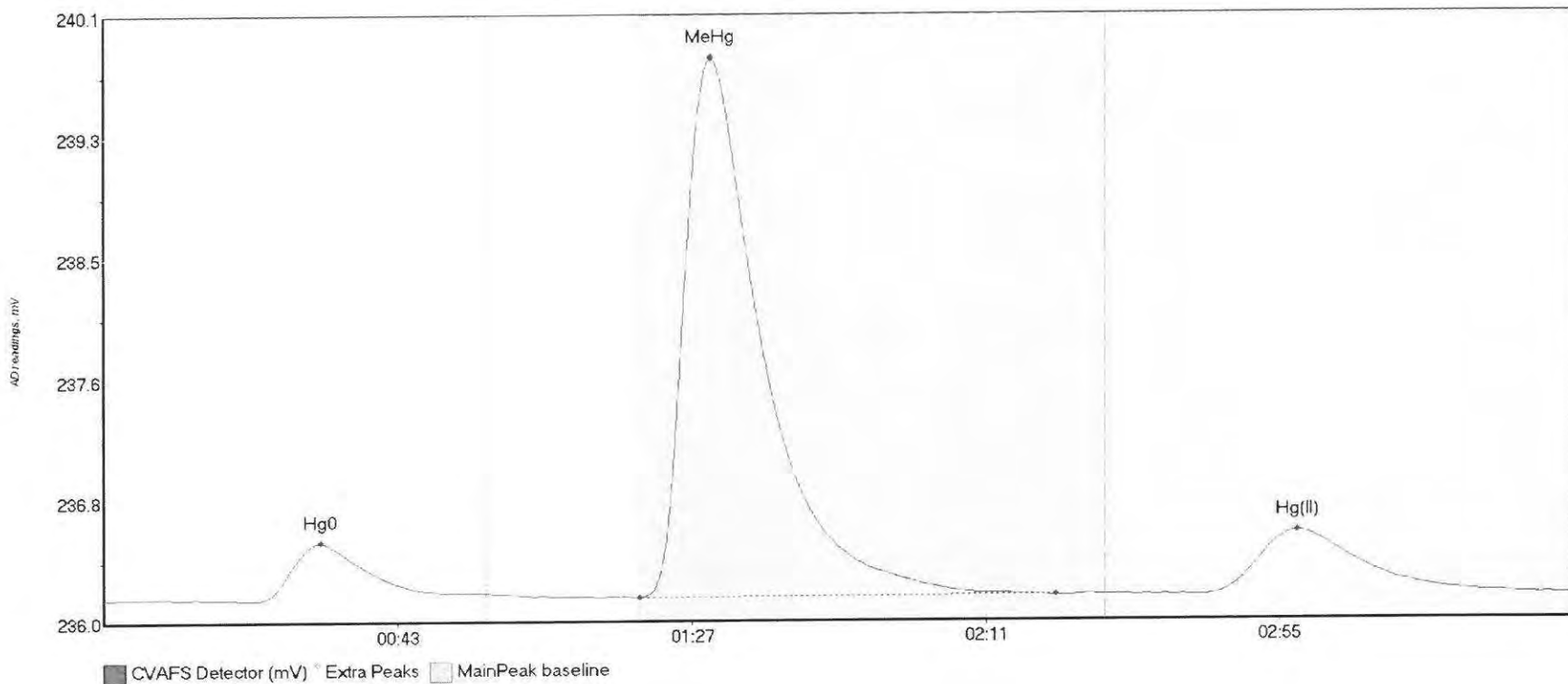
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
F609389-MS1 Hg0	41.132	22.4	57.5	236.21	236.25	31.4	0.344	CT	236.2054	0.00	0.02	
F609389-MS1 MeH	472.733	80.1	141.5	236.22	236.23	90.5	3.472	OK	236.2054	0.00	0.02	
F609389-MS1 Hg(	68.968	164.7	214.5	236.22	236.24	178.1	0.402	OK	236.2054	0.00	0.02	

#18: F609389-MSD1



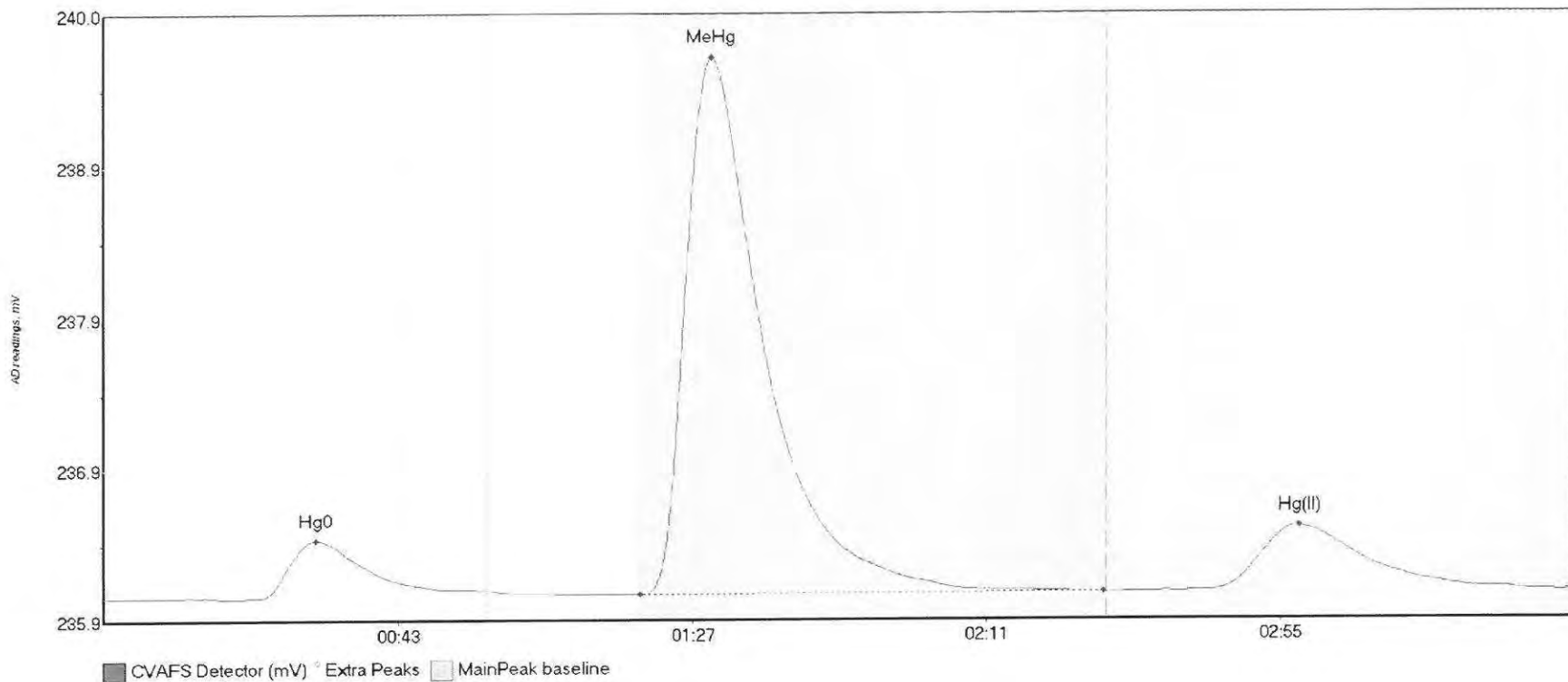
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609389-MSD1 Hg	39.700	22.8	57.2	236.16	236.21	31.7	0.335	OK	236.1597	0.00	0.01	
F609389-MSD1 Me	484.714	80.1	145.9	236.17	236.18	90.4	3.552	OK	236.1597	0.00	0.01	
F609389-MSD1 Hg	54.252	164.8	208.3	236.17	236.19	178.5	0.318	OK	236.1597	0.00	0.01	

#19: F609389-MS2



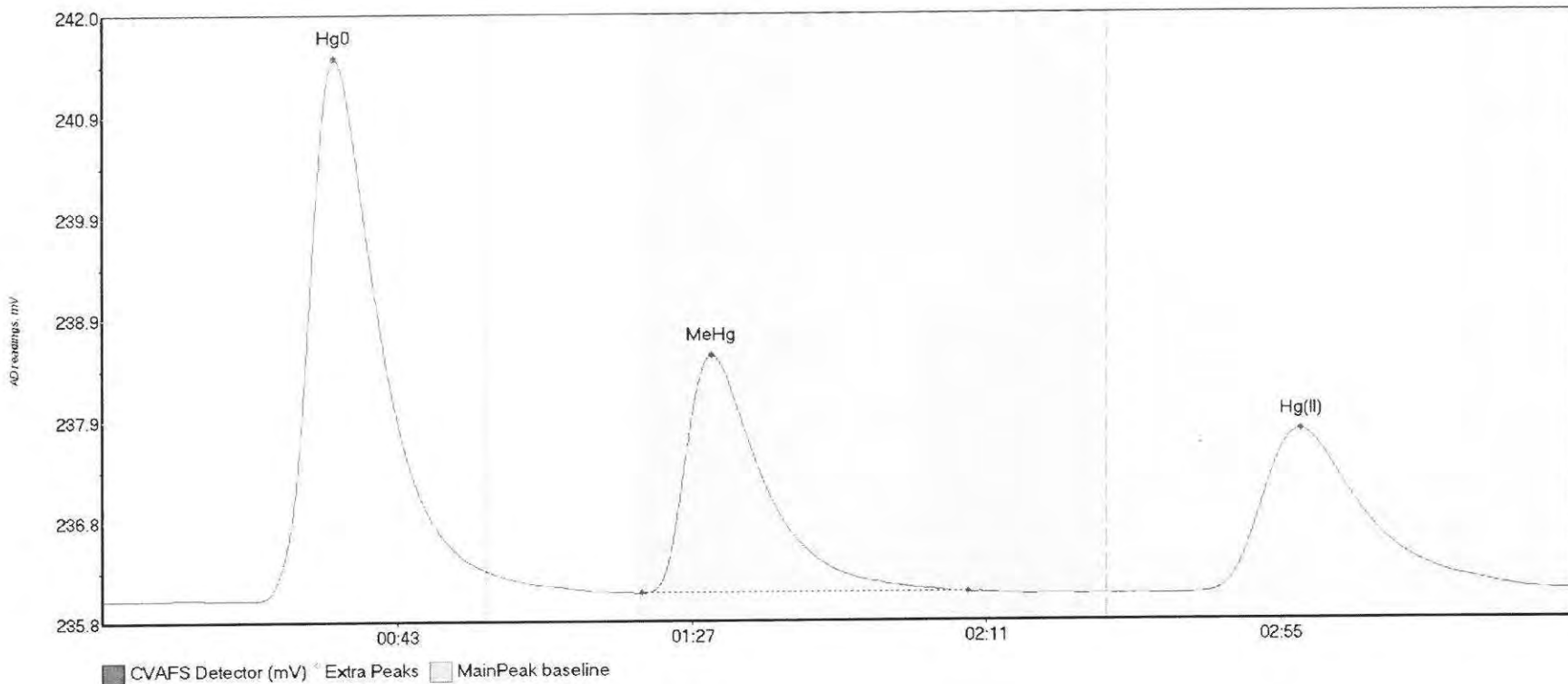
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609389-MS2 Hg0	47.022	22.8	54.5	236.11	236.15	32.4	0.398	OK	236.1177	0.00	0.01	
F609389-MS2 MeH	505.282	80.1	142.4	236.12	236.13	90.8	3.713	OK	236.1177	0.00	0.01	
F609389-MS2 Hg(	76.056	165.1	212.7	236.13	236.14	178.7	0.436	OK	236.1177	0.00	0.01	

#20: F609389-MSD2



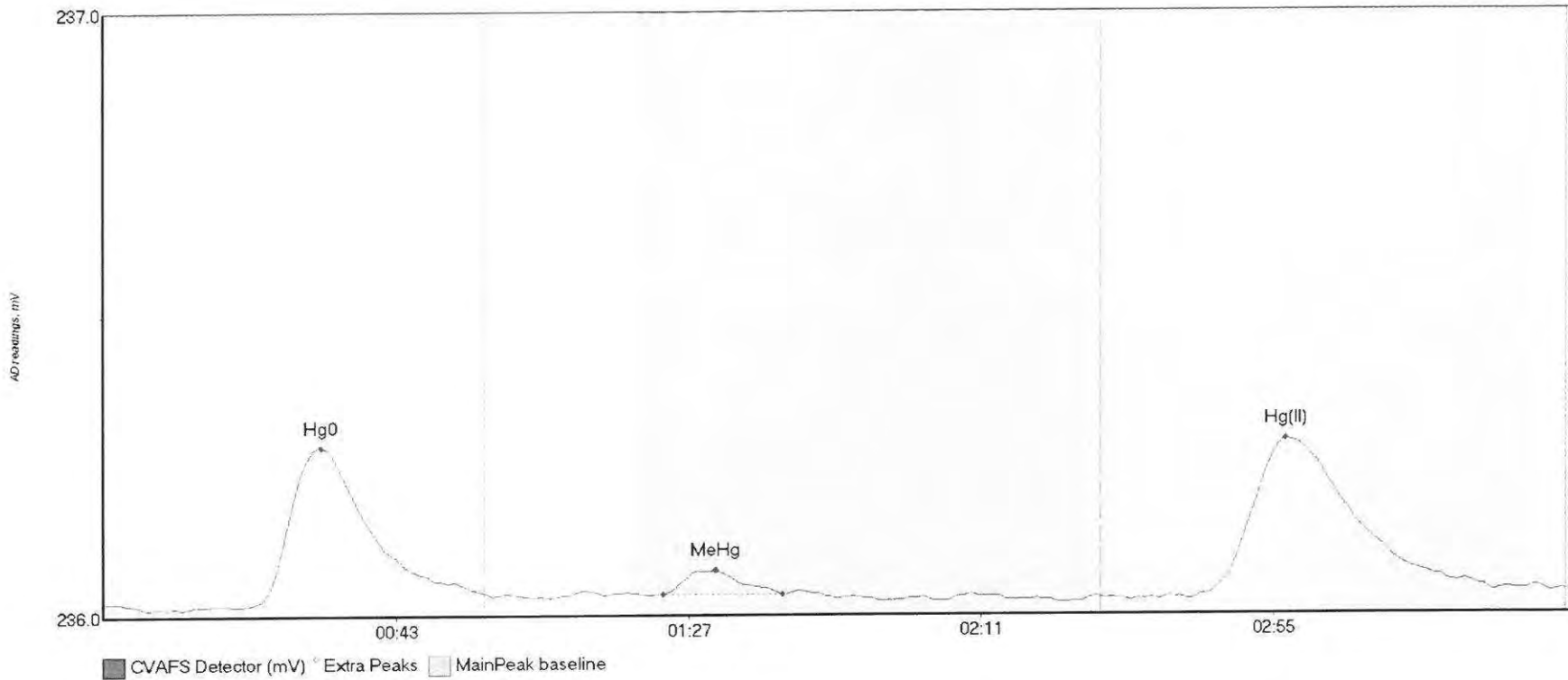
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
F609389-MSD2 Hg	46.562	23.4	57.5	236.07	236.11	31.7	0.379	CT	236.0662	0.00	0.04	
F609389-MSD2 Me	489.598	80.2	149.4	236.08	236.09	90.8	3.588	OK	236.0662	0.00	0.04	
F609389-MSD2 Hg	79.331	160.2	217.7	236.10	236.10	178.9	0.437	OK	236.0662	0.00	0.04	

#21: SEQ-CCV1



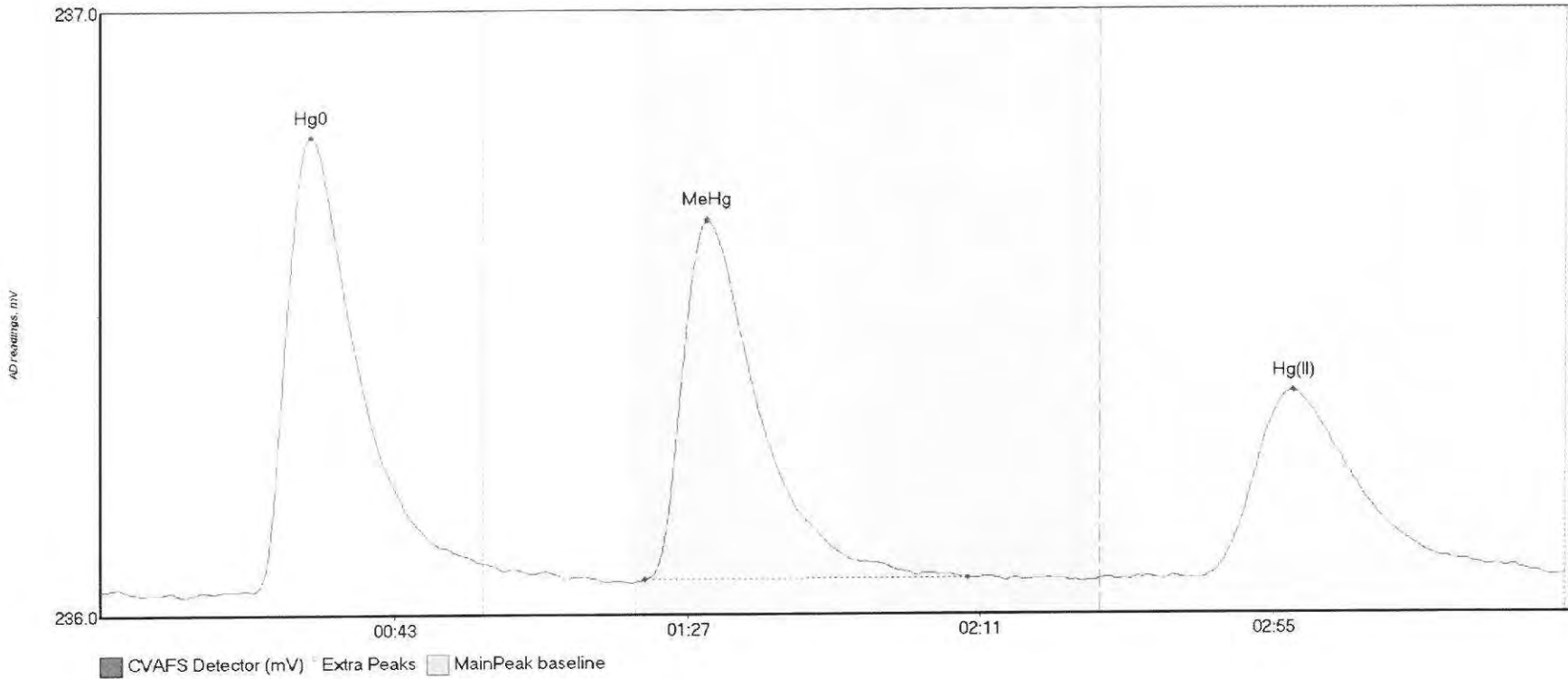
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV1 Hg0	636.498	22.5	57.5	236.04	236.33	34.5	5.493	CT	236.0423	0.00	0.07	
SEQ-CCV1 MeHg	325.789	80.5	129.3	236.10	236.11	90.9	2.416	OK	236.0423	0.00	0.07	
SEQ-CCV1 Hg(II)	297.651	161.7	219.8	236.08	236.11	179.0	1.662	CT	236.0423	0.00	0.07	

#22: SEQ-CCB1



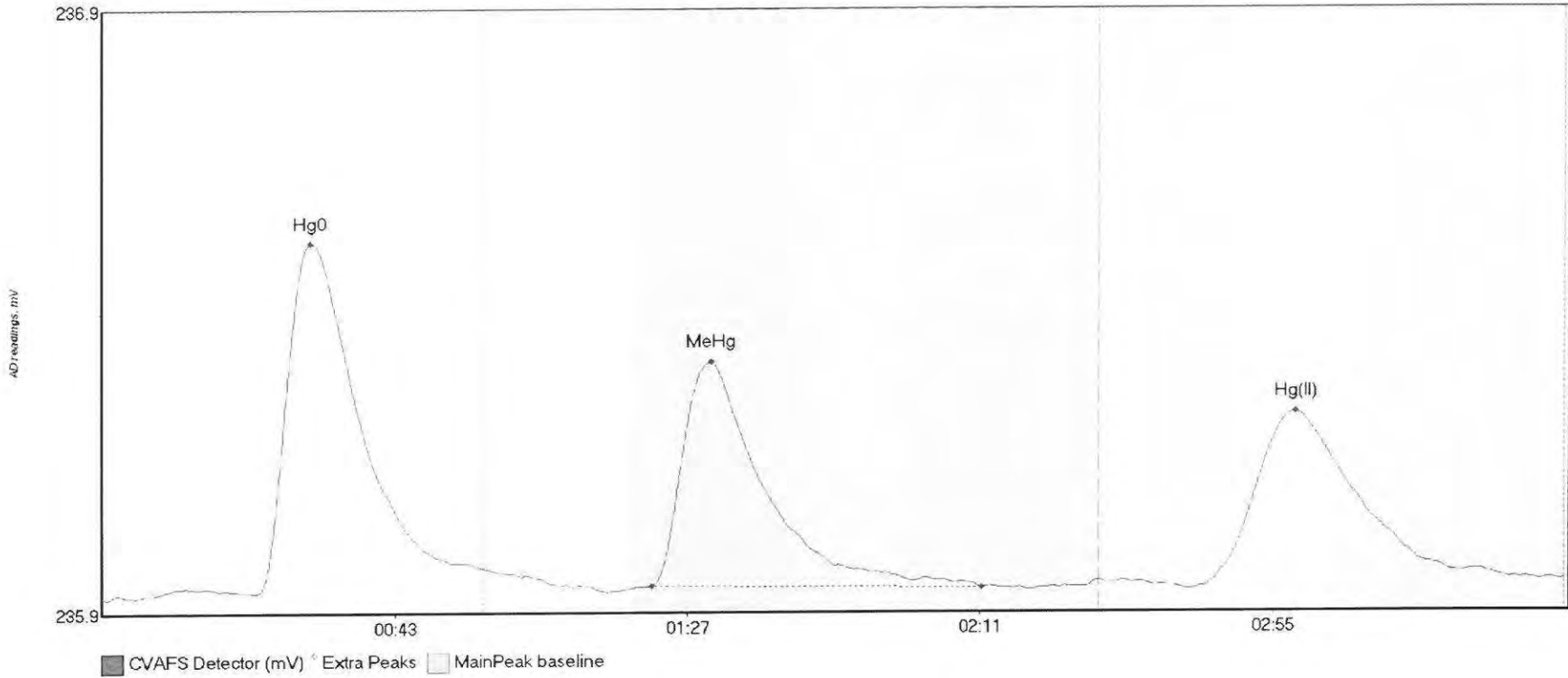
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB1 Hg0	34.106	22.1	57.5	236.02	236.04	32.7	0.263	CT	236.0270	0.00	0.02	
SEQ-CCB1 MeHg	3.924	84.1	102.0	236.04	236.04	92.0	0.040	OK	236.0270	0.00	0.02	
SEQ-CCB1 Hg(II)	47.265	163.7	218.0	236.03	236.04	177.9	0.264	OK	236.0270	0.00	0.02	

#23: 1608361-46



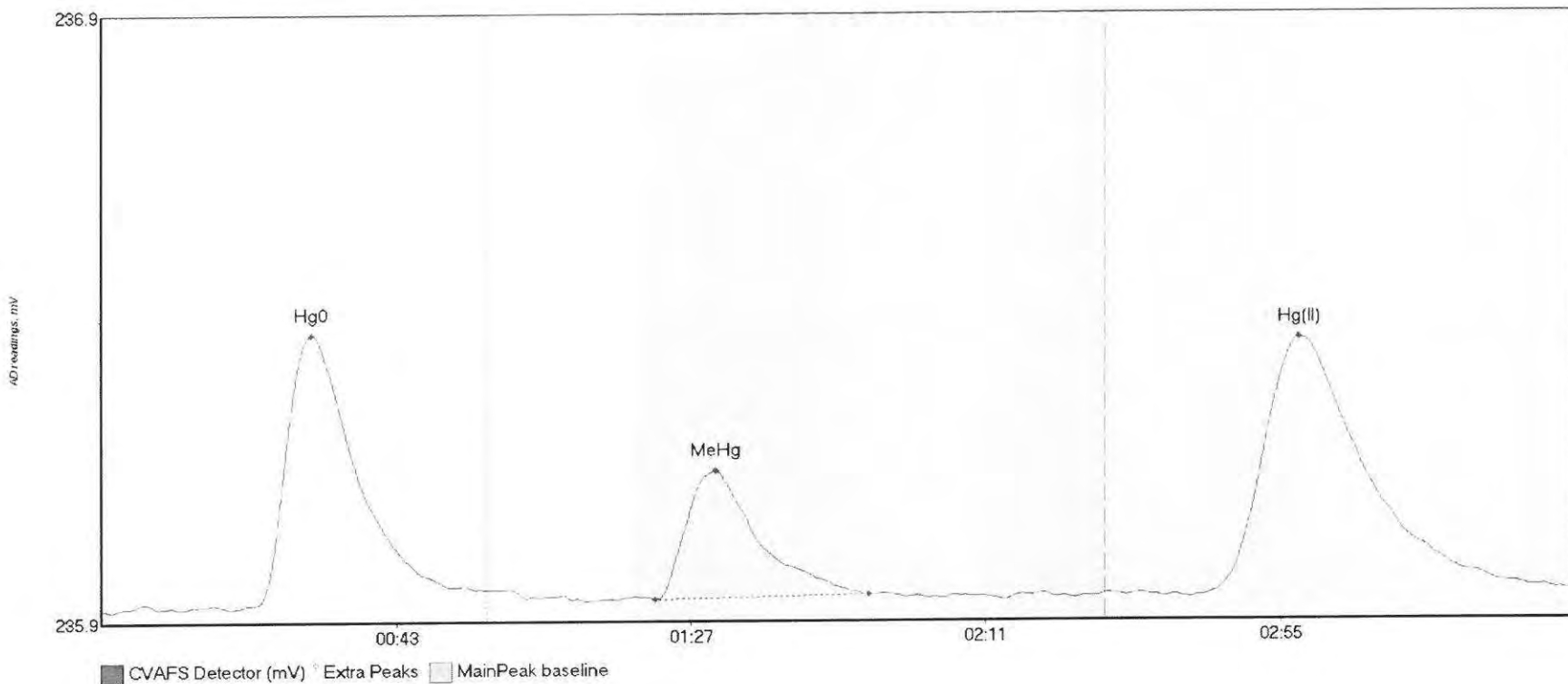
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	ElDev	ElShift	Comment
1608361-46 Hg0	89.227	22.8	57.5	236.00	236.05	31.4	0.753	CT	236.0014	0.00	0.02	
1608361-46 MeHg	79.416	81.6	130.1	236.02	236.02	90.9	0.595	OK	236.0014	0.00	0.02	
1608361-46 Hg(I)	56.579	164.9	217.7	236.02	236.02	179.0	0.310	OK	236.0014	0.00	0.02	

#24: 1608361-49



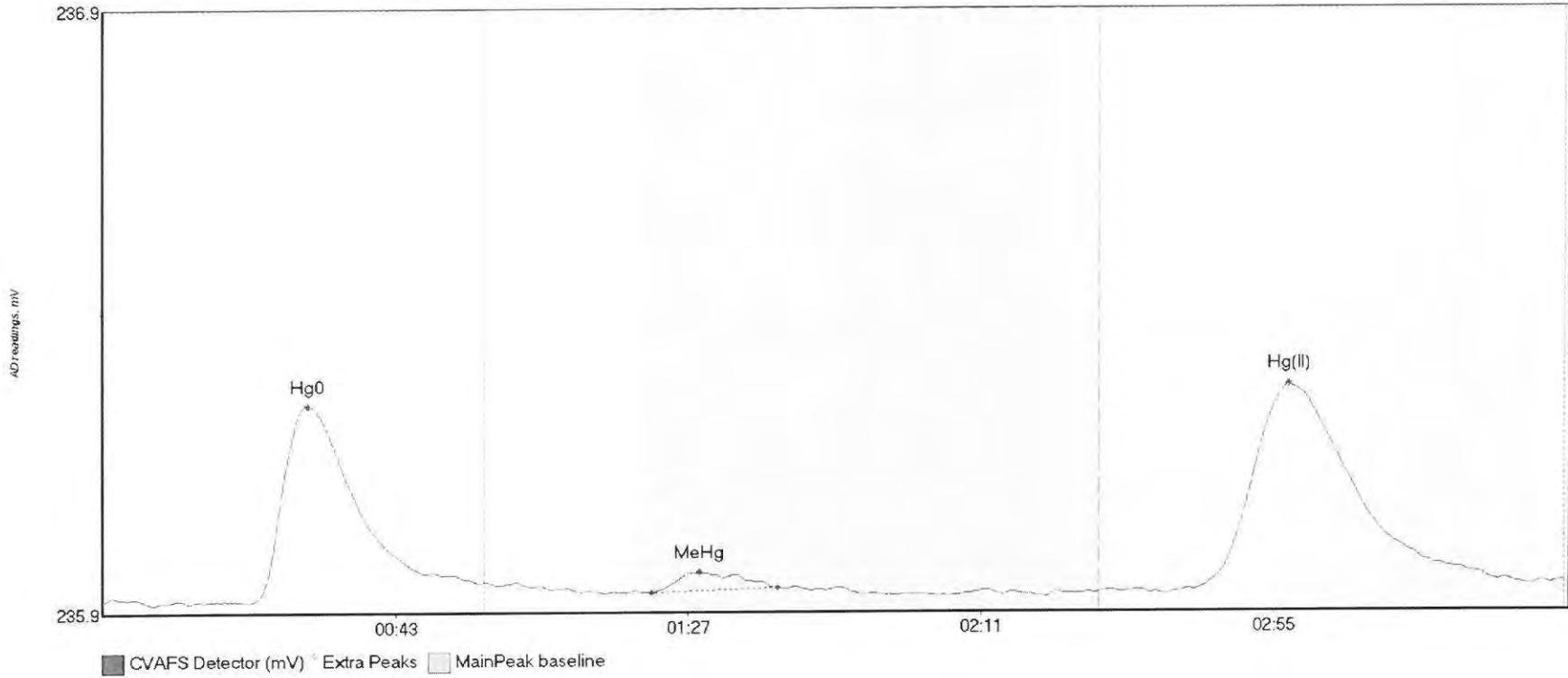
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608361-49 Hg0	67.787	7.7	57.5	235.98	236.02	31.3	0.585	CT	235.9727	0.00	0.03	
1608361-49 MeHg	52.155	82.8	132.3	235.99	235.99	91.6	0.372	OK	235.9727	0.00	0.03	
1608361-49 Hg(I)	52.130	163.2	216.2	235.99	236.00	179.4	0.294	OK	235.9727	0.00	0.03	

#25: 1608361-53



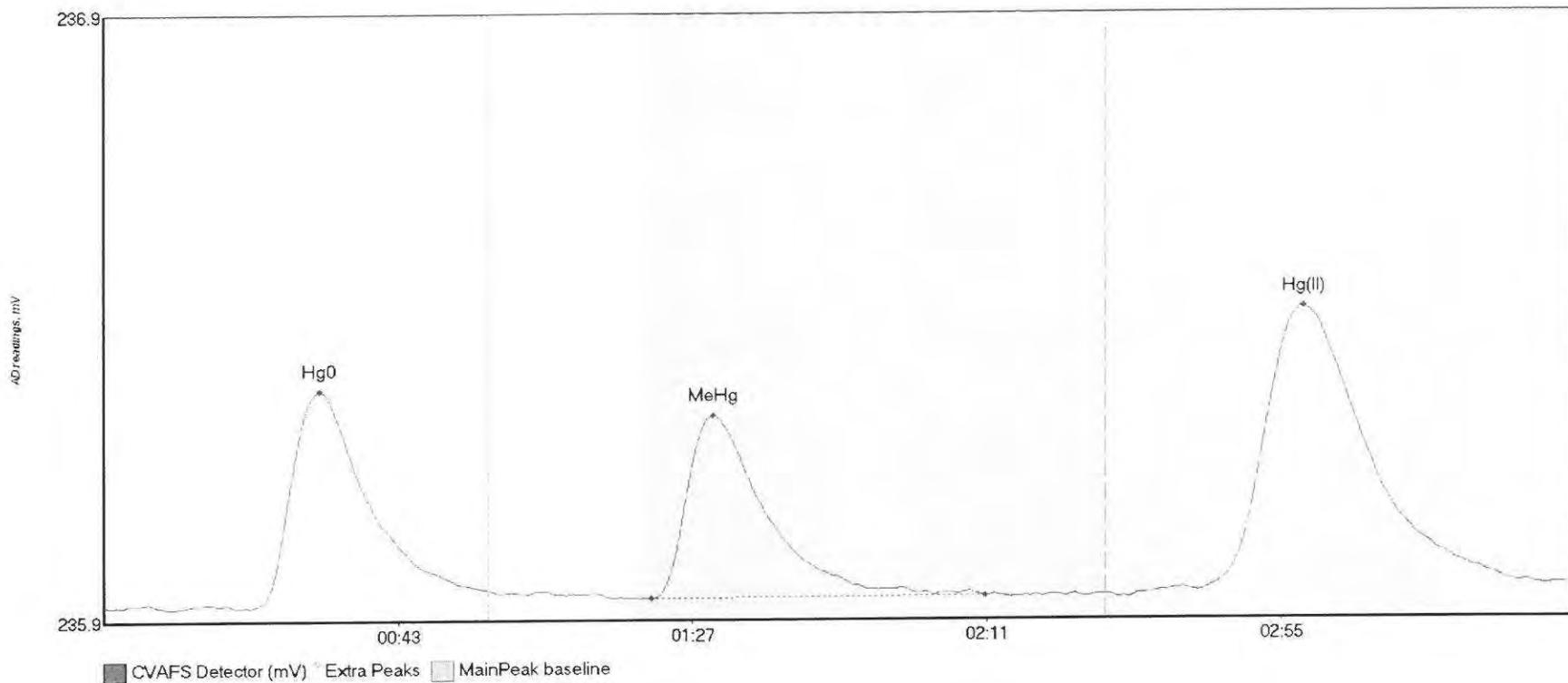
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608361-53 Hg0	52.570	19.4	57.5	235.97	236.00	31.3	0.452	CT	235.9659	0.00	0.03	
1608361-53 MeHg	25.705	82.8	114.4	235.98	235.99	91.8	0.212	OK	235.9659	0.00	0.03	
1608361-53 Hg(I)	74.442	164.6	218.9	235.99	235.99	178.8	0.424	OK	235.9659	0.00	0.03	

#26: 1608361-55



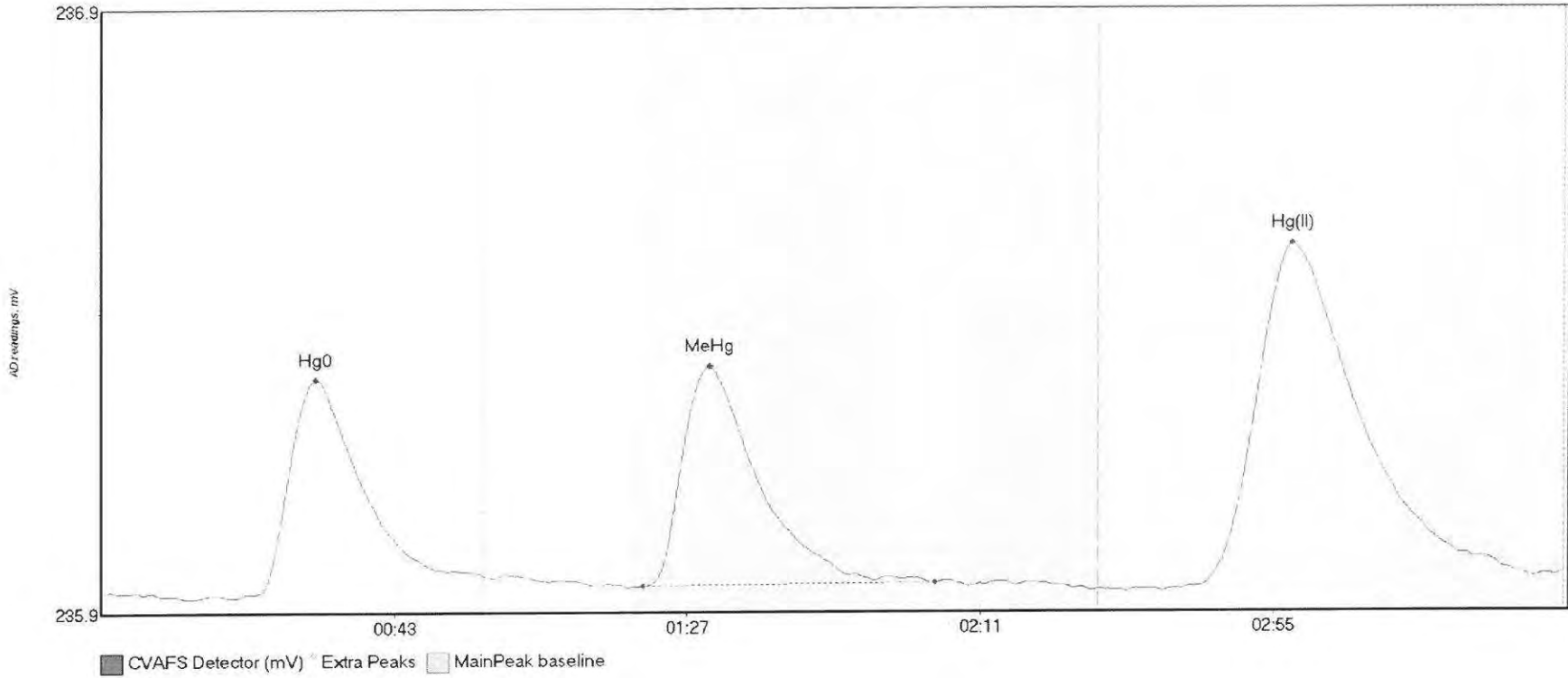
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608361-55 Hg0	39.420	21.9	56.6	235.96	235.99	30.9	0.329	OK	235.9629	0.00	0.03	
1608361-55 MeHg	3.314	82.6	101.5	235.97	235.98	89.7	0.034	OK	235.9629	0.00	0.03	
1608361-55 Hg(I)	59.470	164.2	214.7	235.98	235.99	178.3	0.340	OK	235.9629	0.00	0.03	

#27: 1608517-01



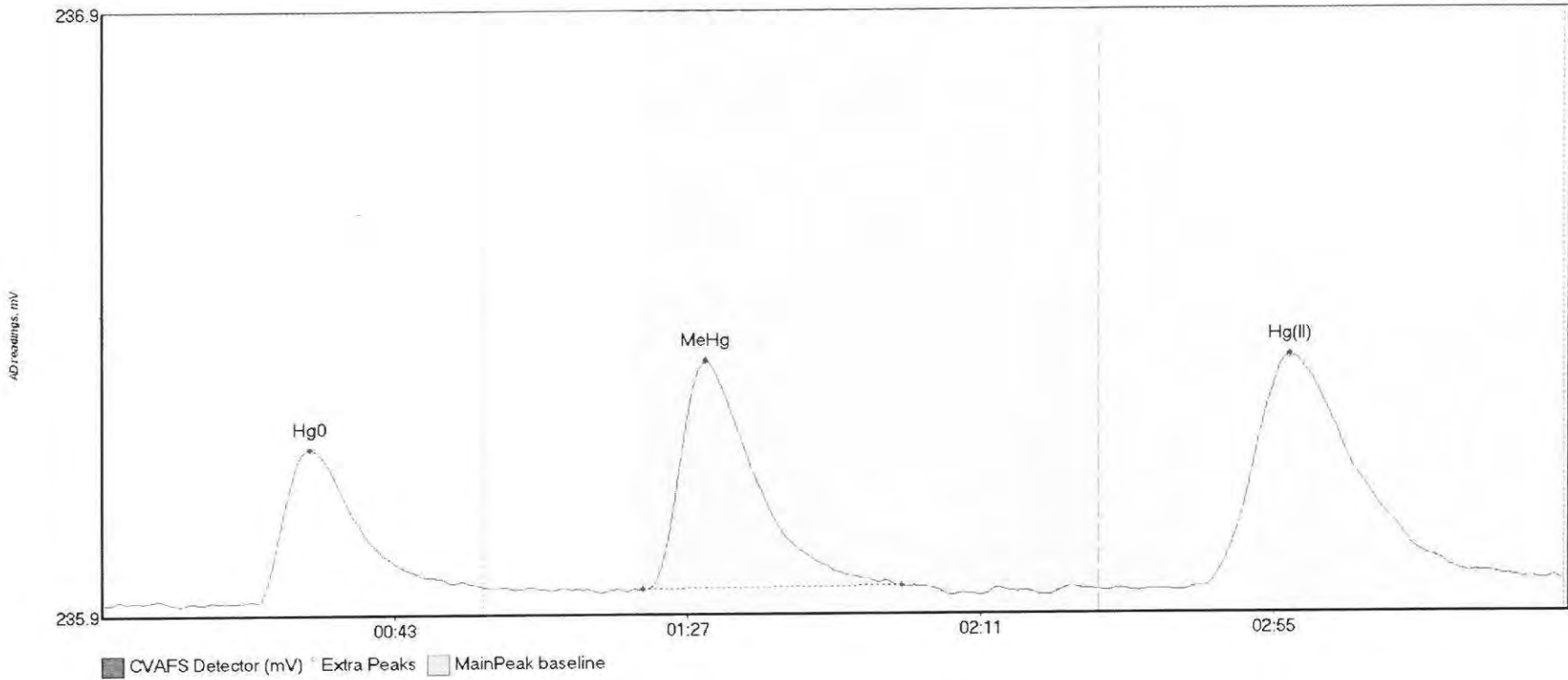
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608517-01 Hg0	44.954	21.6	57.5	235.95	235.98	32.3	0.358	CT	235.9523	0.00	0.03	
1608517-01 MeHg	41.003	81.9	131.8	235.96	235.97	91.1	0.302	OK	235.9523	0.00	0.03	
1608517-01 Hg(I)	82.336	157.4	215.8	235.97	235.98	179.3	0.471	OK	235.9523	0.00	0.03	

#28: 1608517-02



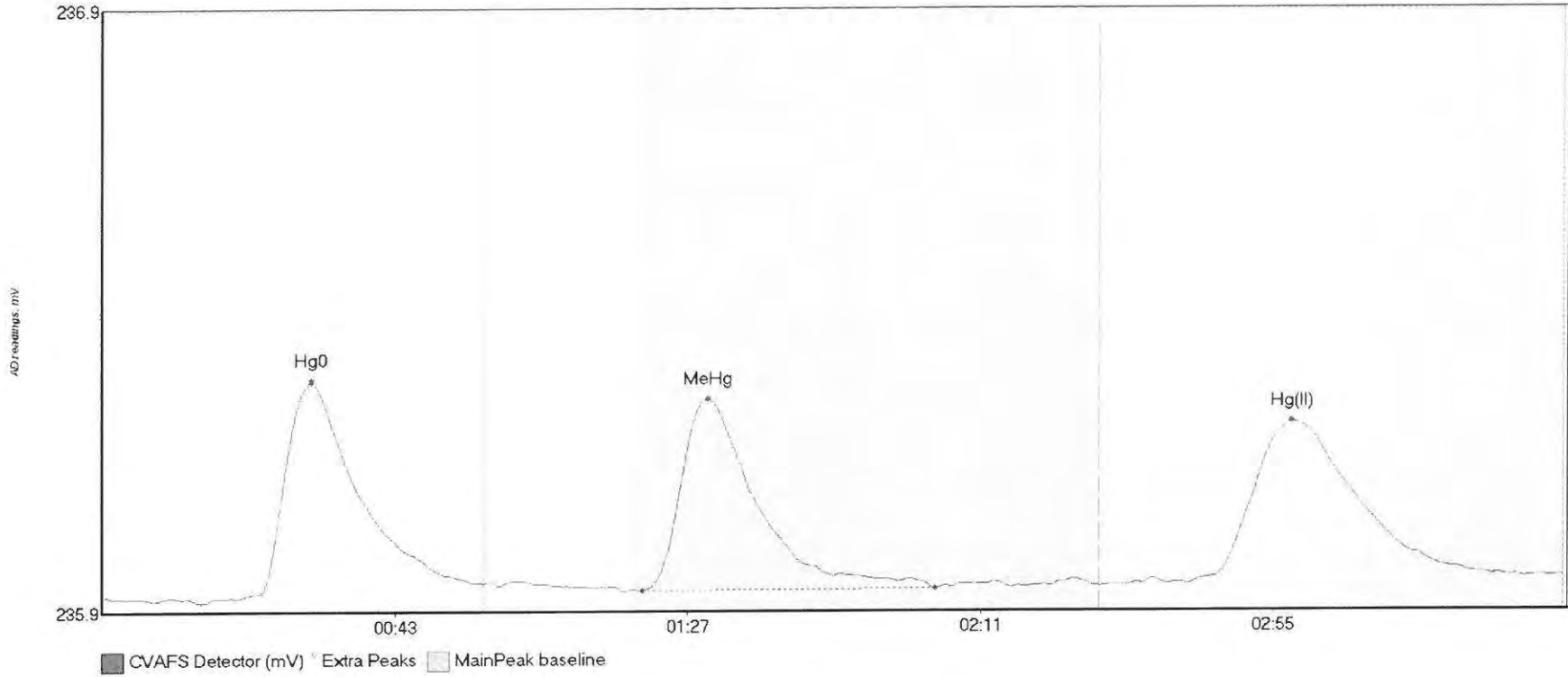
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
1608517-02 Hg0	42.464	23.4	57.5	235.95	235.97	32.2	0.356	CT	235.9473	0.00	0.03	
1608517-02 MeHg	47.828	81.4	125.2	235.96	235.96	91.4	0.364	OK	235.9473	0.00	0.03	
1608517-02 Hg(I)	100.616	164.5	215.4	235.95	235.97	178.9	0.568	OK	235.9473	0.00	0.03	

#29: 1608517-03



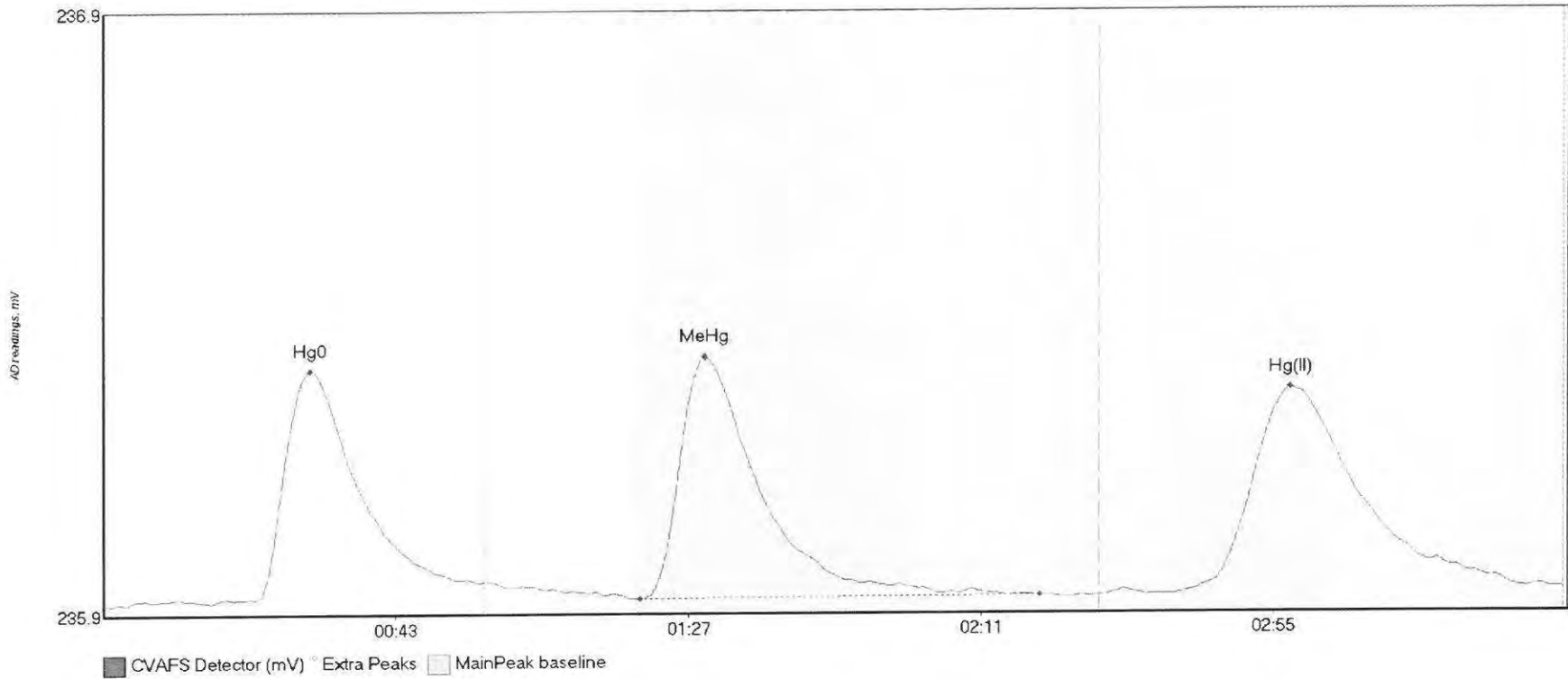
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608517-03 Hg0	31.302	23.5	57.3	235.92	235.95	31.5	0.255	OK	235.9202	0.00	0.04	
1608517-03 MeHg	48.386	81.3	120.1	235.94	235.95	90.8	0.379	OK	235.9202	0.00	0.04	
1608517-03 Hg(I)	69.069	162.3	219.8	235.94	235.95	178.5	0.389	CT	235.9202	0.00	0.04	

#30: 1608517-04



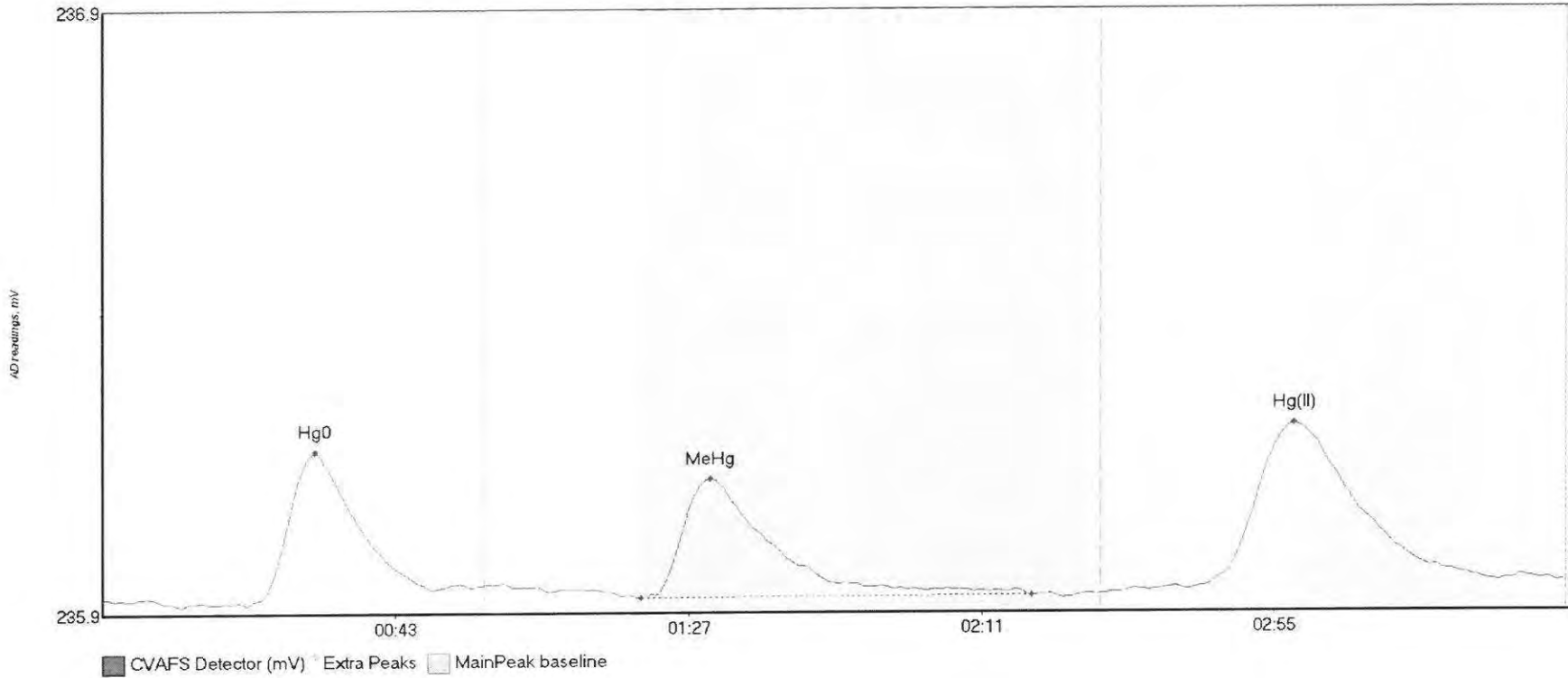
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608517-04 Hg0	42.885	23.5	57.2	235.93	235.95	31.4	0.353	OK	235.9260	0.00	0.03	
1608517-04 MeHg	41.882	81.1	125.1	235.93	235.94	91.1	0.319	OK	235.9260	0.00	0.03	
1608517-04 Hg(I	47.754	163.2	214.1	235.95	235.96	178.9	0.270	OK	235.9260	0.00	0.03	

#31: 1608517-05



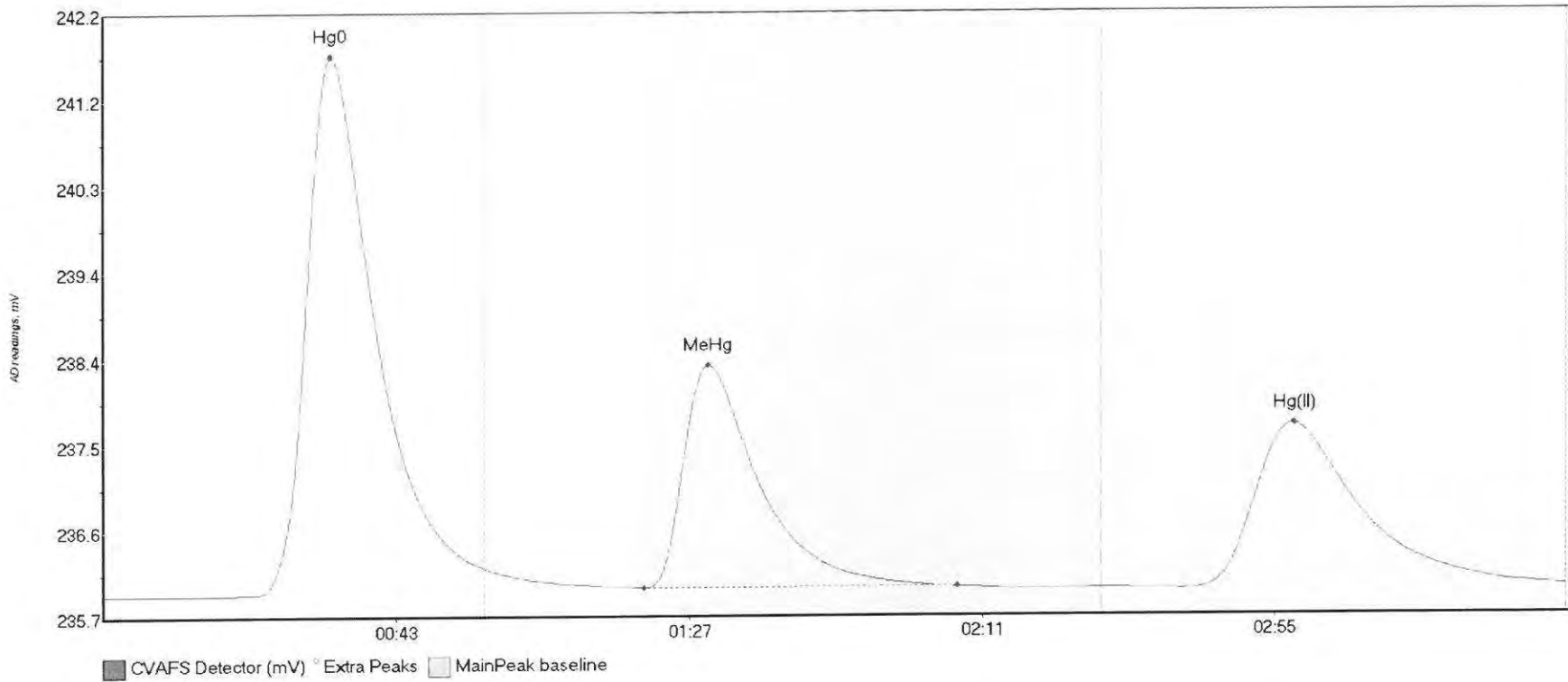
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608517-05 Hg0	46.171	16.3	56.7	235.93	235.96	31.3	0.387	OK	235.9237	0.00	0.02	
1608517-05 MeHg	56.226	80.8	140.9	235.93	235.94	90.5	0.402	OK	235.9237	0.00	0.02	
1608517-05 Hg(I)	62.552	160.9	219.8	235.94	235.95	178.6	0.343	CT	235.9237	0.00	0.02	

#32: 1608517-06



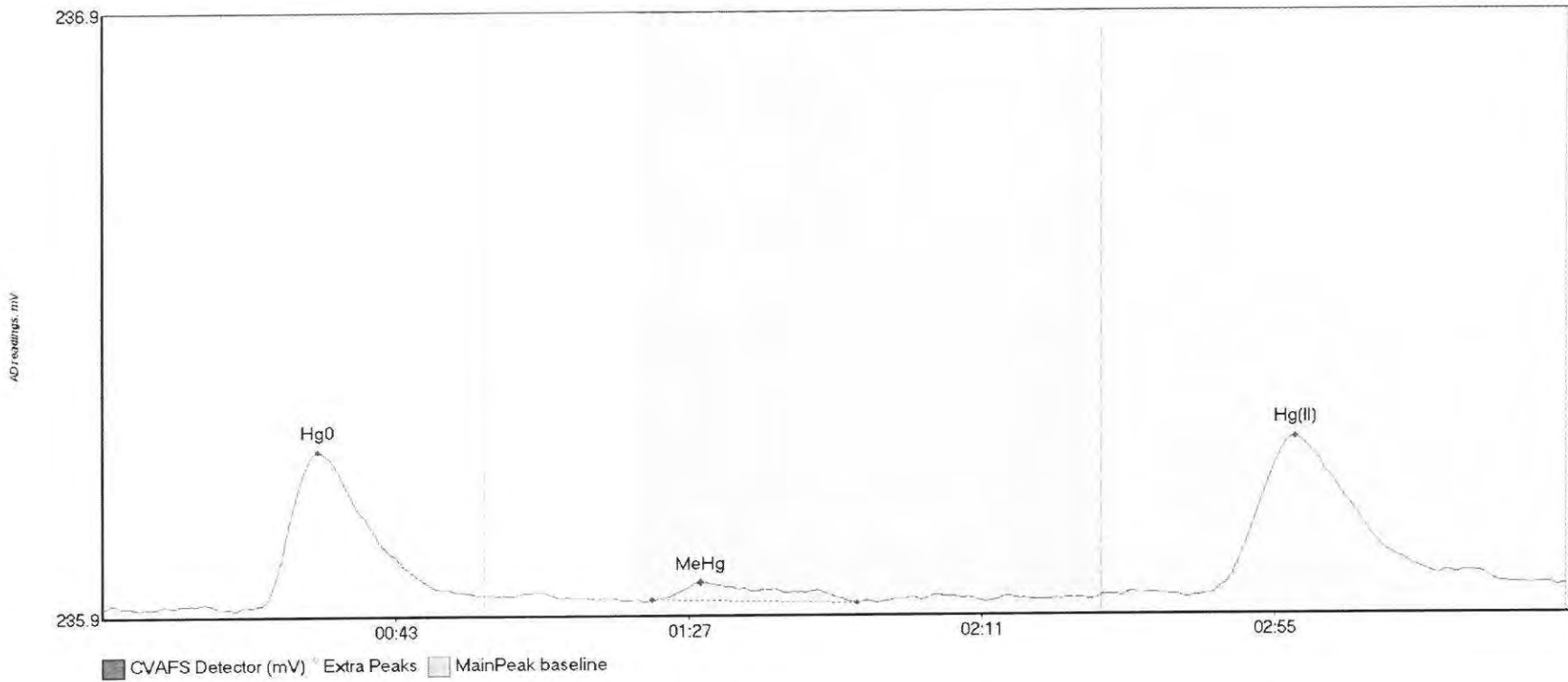
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608517-06 Hg0	28.110	21.5	49.8	235.91	235.93	31.9	0.253	OK	235.9198	0.00	0.03	
1608517-06 MeHg	30.636	80.7	139.4	235.92	235.92	91.3	0.197	OK	235.9198	0.00	0.03	
1608517-06 Hg(I)	47.652	157.2	219.8	235.93	235.94	179.1	0.276	CT	235.9198	0.00	0.03	

#33: SEQ-CCV2



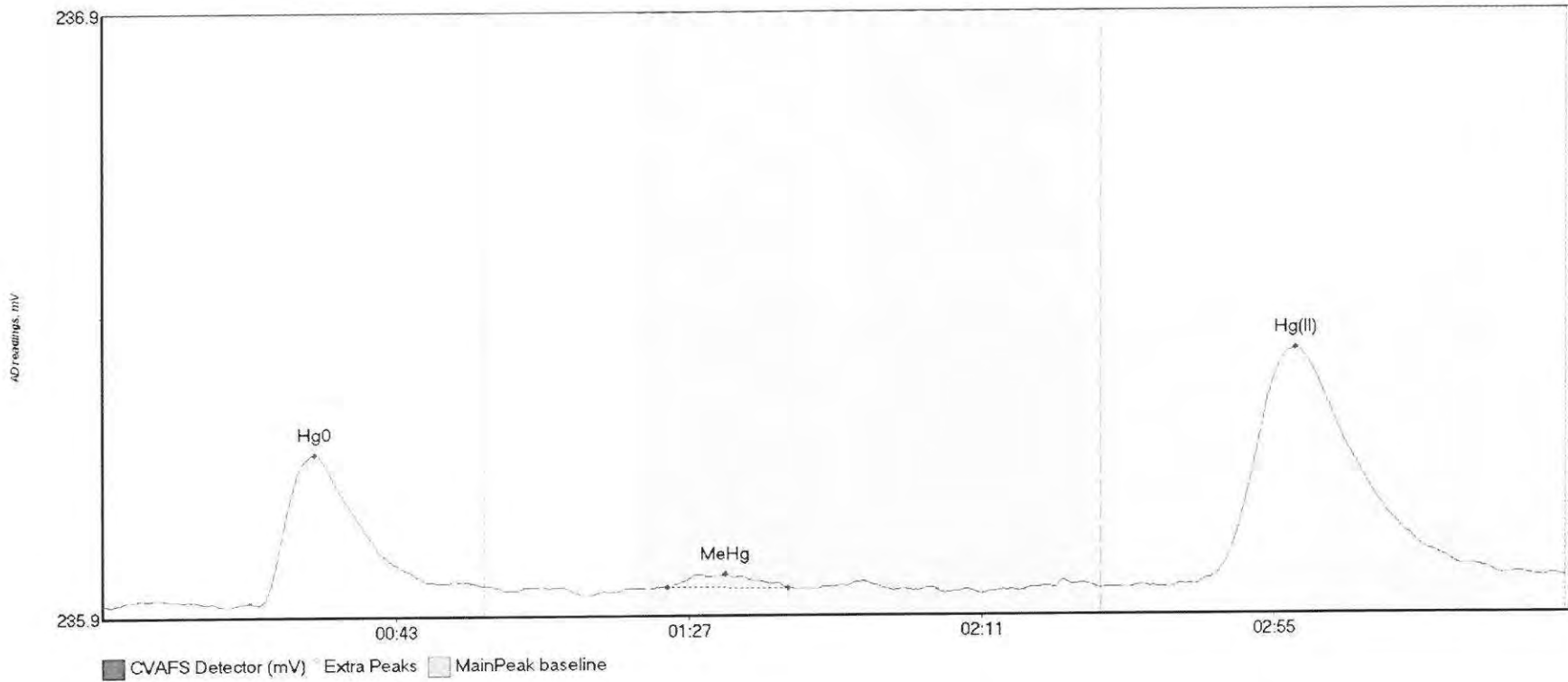
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV2 Hg0	656.584	16.5	57.5	235.90	236.18	34.2	5.796	CT	235.8988	0.00	0.08	
SEQ-CCV2 MeHg	317.013	81.1	128.3	235.97	235.98	90.9	2.402	OK	235.8988	0.00	0.08	
SEQ-CCV2 Hg(II)	319.370	162.0	219.8	235.95	235.97	179.0	1.774	CT	235.8988	0.00	0.08	

#34: SEQ-CCB2



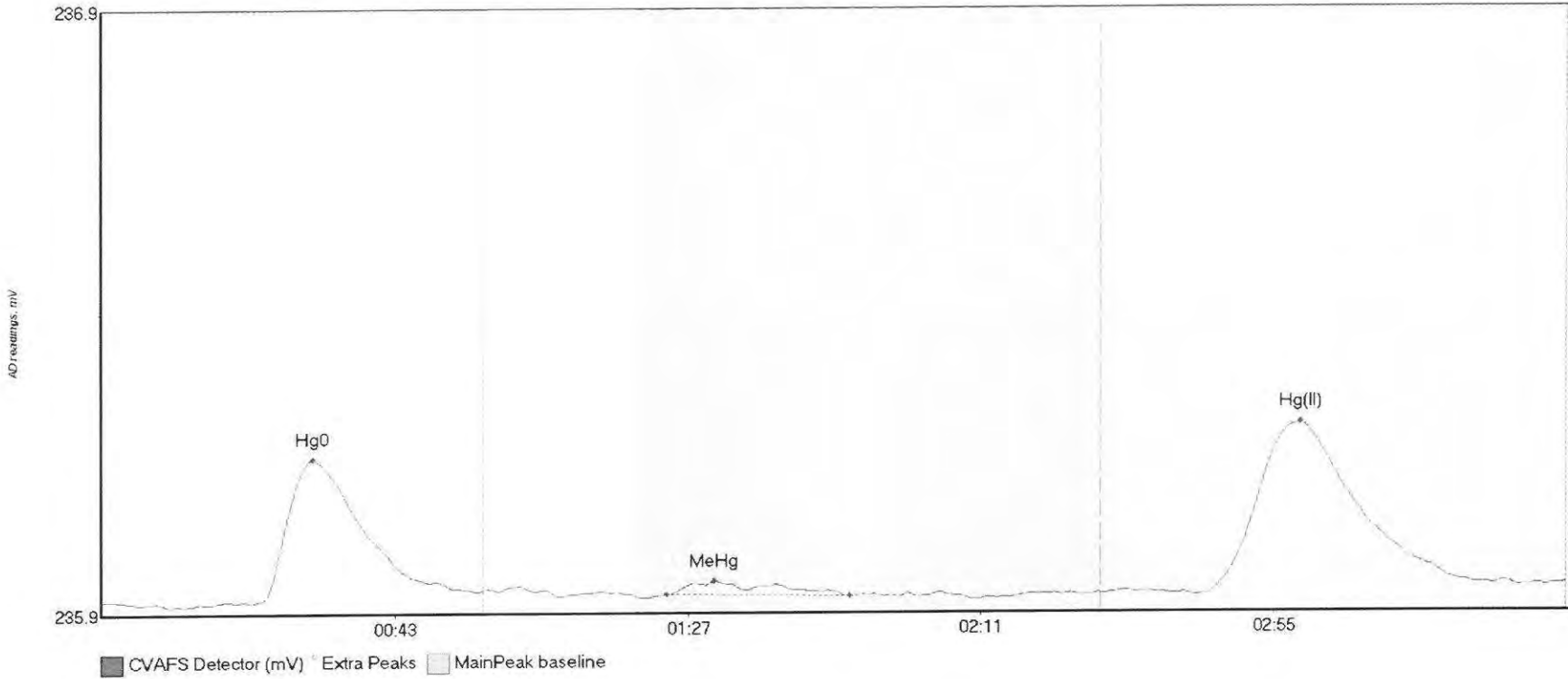
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB2 Hg0	33.017	22.6	56.3	235.91	235.92	32.3	0.258	OK	235.9076	0.00	0.03	
SEQ-CCB2 MeHg	5.399	82.4	113.3	235.92	235.91	89.8	0.030	OK	235.9076	0.00	0.03	
SEQ-CCB2 Hg(II)	44.332	166.3	218.5	235.93	235.94	179.2	0.260	OK	235.9076	0.00	0.03	

#35: 1608566-01



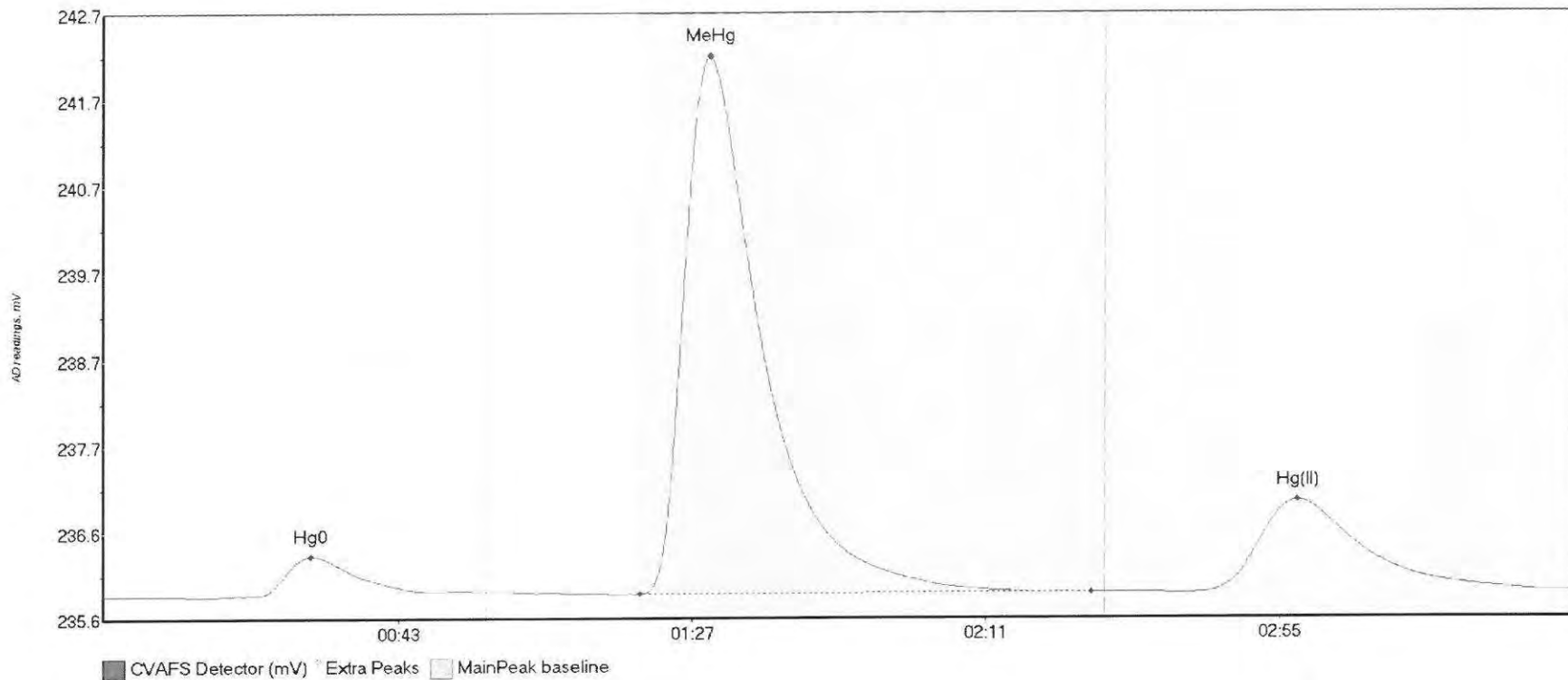
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608566-01 Hg0	30.280	23.2	57.4	235.91	235.94	31.7	0.249	OK	235.9101	0.00	0.04	
1608566-01 MeHg	2.495	84.7	102.9	235.94	235.94	93.5	0.021	OK	235.9101	0.00	0.04	
1608566-01 Hg(I	68.656	164.0	216.4	235.94	235.95	179.3	0.391	OK	235.9101	0.00	0.04	

#36: 1608618-01



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608618-01 Hg0	29.767	22.4	56.4	235.91	235.93	31.7	0.239	OK	235.9176	0.00	0.02	
1608618-01 MeHg	3.452	84.7	112.3	235.93	235.92	91.9	0.022	OK	235.9176	0.00	0.02	
1608618-01 Hg(I)	48.600	165.8	212.8	235.93	235.94	180.1	0.284	OK	235.9176	0.00	0.02	

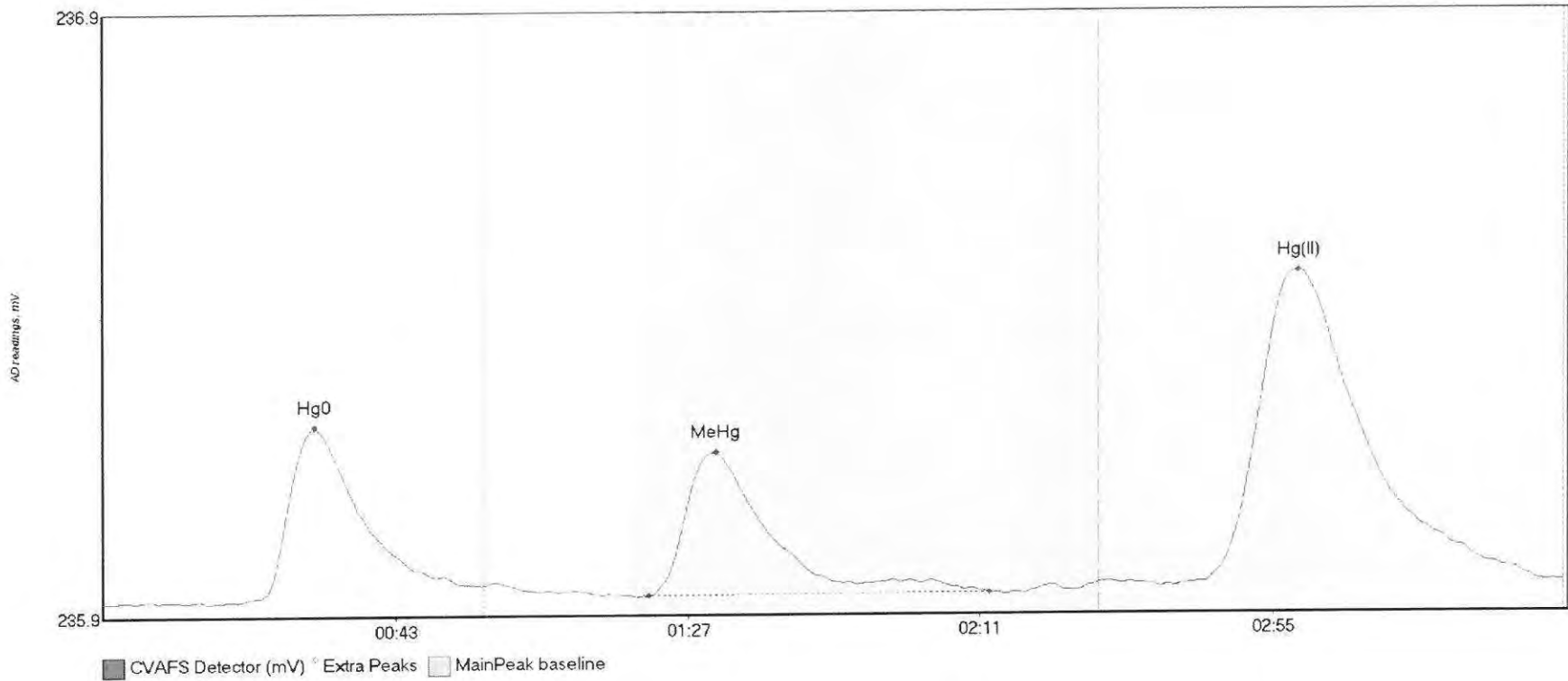
#37: 1608618-02



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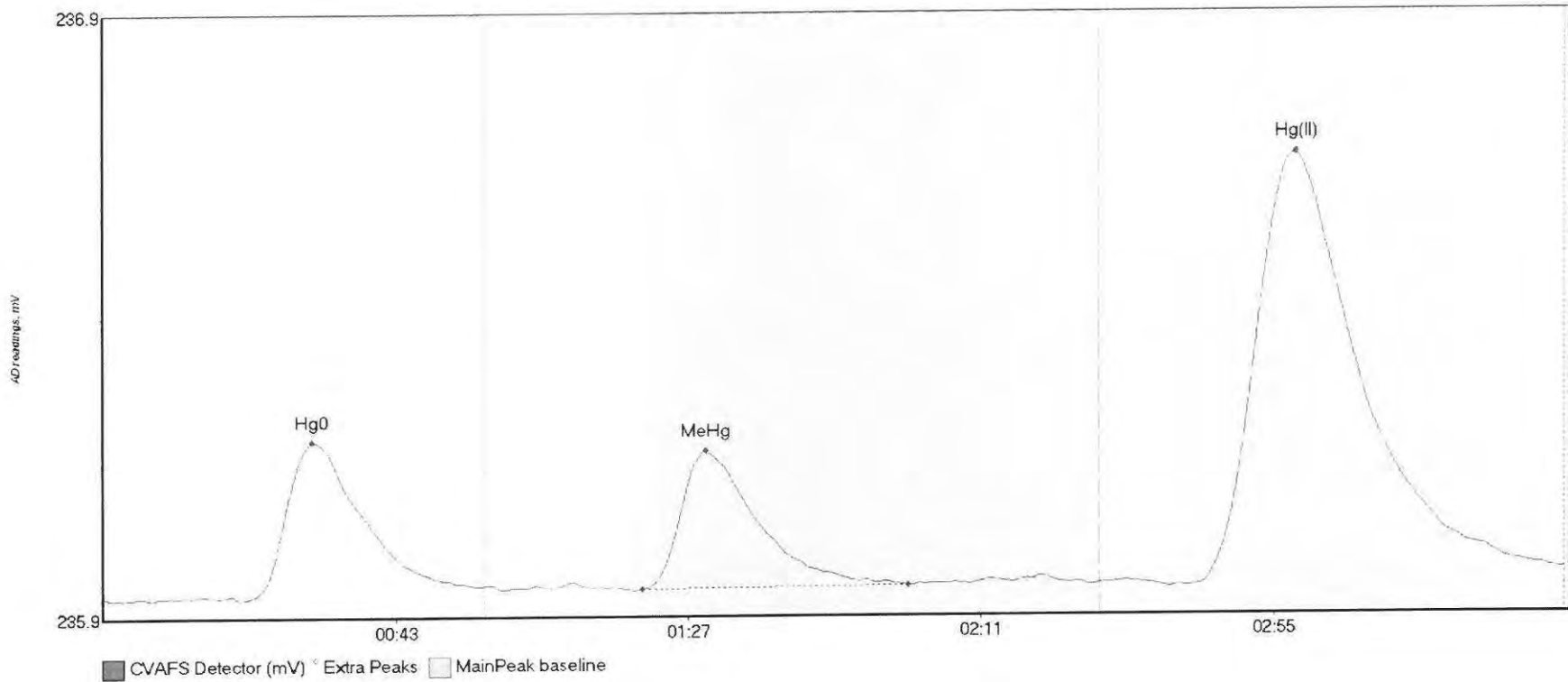
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608618-02 Hg0	51.636	16.3	49.0	235.90	235.95	30.9	0.471	OK	235.9103	0.00	0.05	
1608618-02 MeHg	845.804	80.1	147.9	235.93	235.94	90.7	6.239	OK	235.9103	0.00	0.05	
1608618-02 Hg(I)	191.513	162.3	217.8	235.93	235.95	178.8	1.075	OK	235.9103	0.00	0.05	

#38: 1608618-03



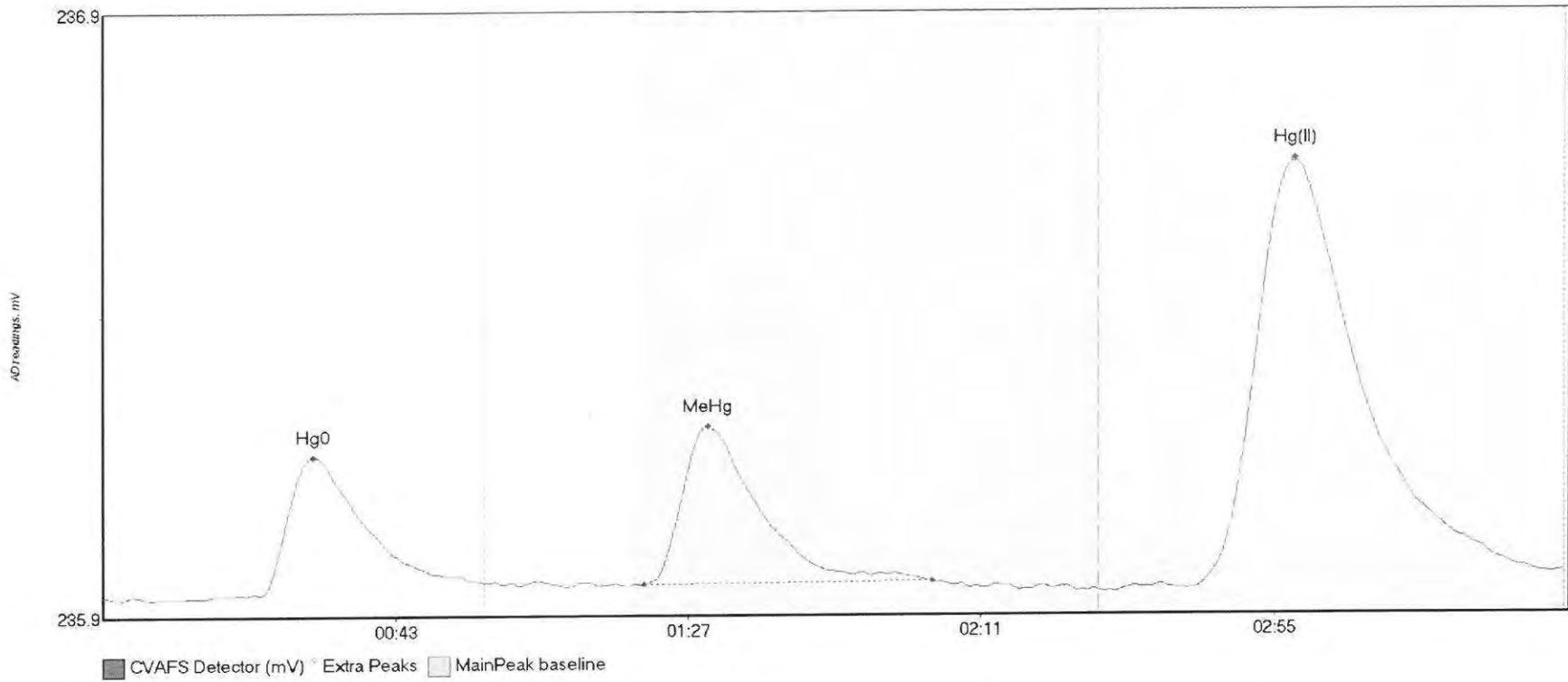
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608618-03 Hg0	34.127	20.9	57.0	235.90	235.93	31.8	0.288	OK	235.9012	0.00	0.03	
1608618-03 MeHg	34.822	82.1	133.5	235.91	235.91	92.2	0.238	OK	235.9012	0.00	0.03	
1608618-03 Hg(I)	94.163	165.3	216.5	235.93	235.93	179.9	0.516	OK	235.9012	0.00	0.03	

#39: 1608618-04



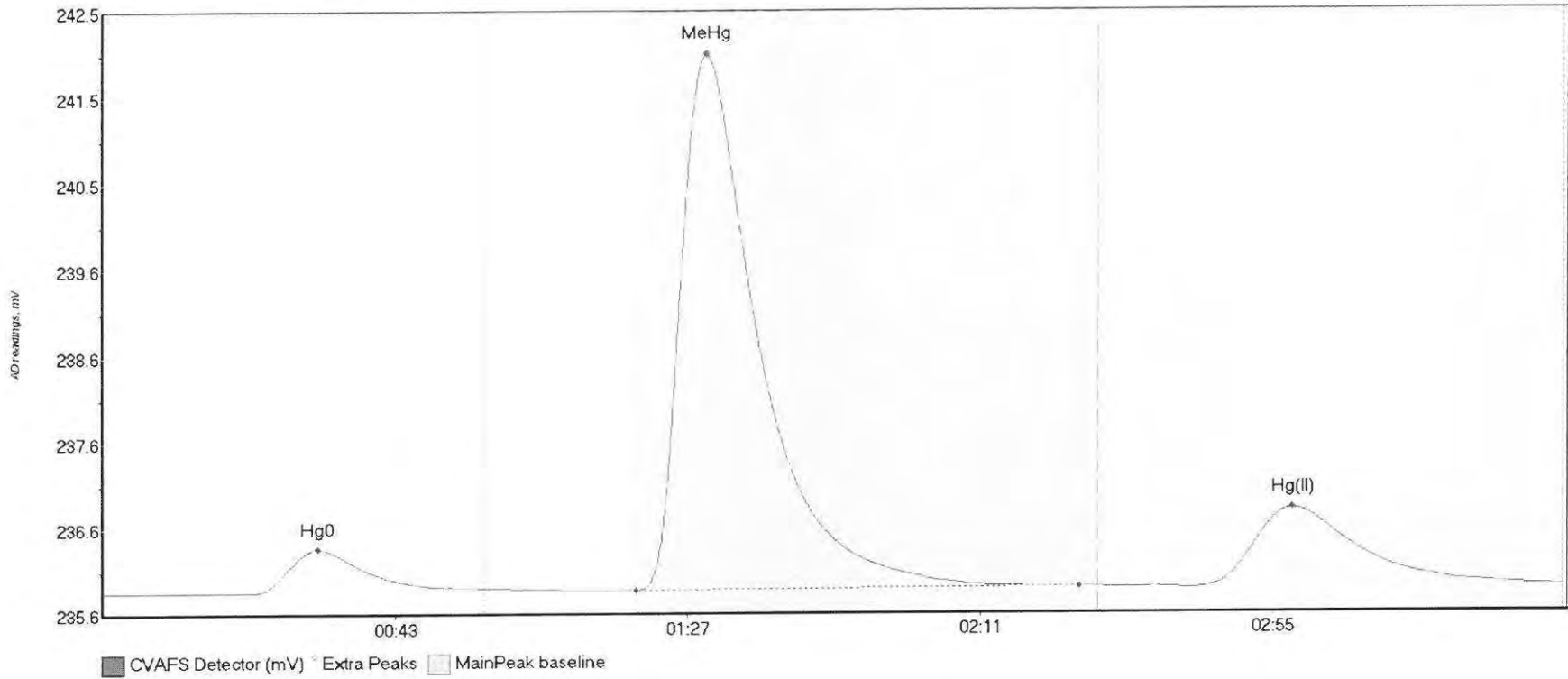
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608618-04 Hg0	33.034	20.8	55.9	235.90	235.92	31.5	0.264	OK	235.9020	0.00	0.04	
1608618-04 MeHg	29.970	81.1	121.0	235.91	235.92	90.8	0.229	OK	235.9020	0.00	0.04	
1608618-04 Hg(I)	128.208	163.5	219.3	235.92	235.94	179.4	0.717	OK	235.9020	0.00	0.04	

#40: 1608618-05



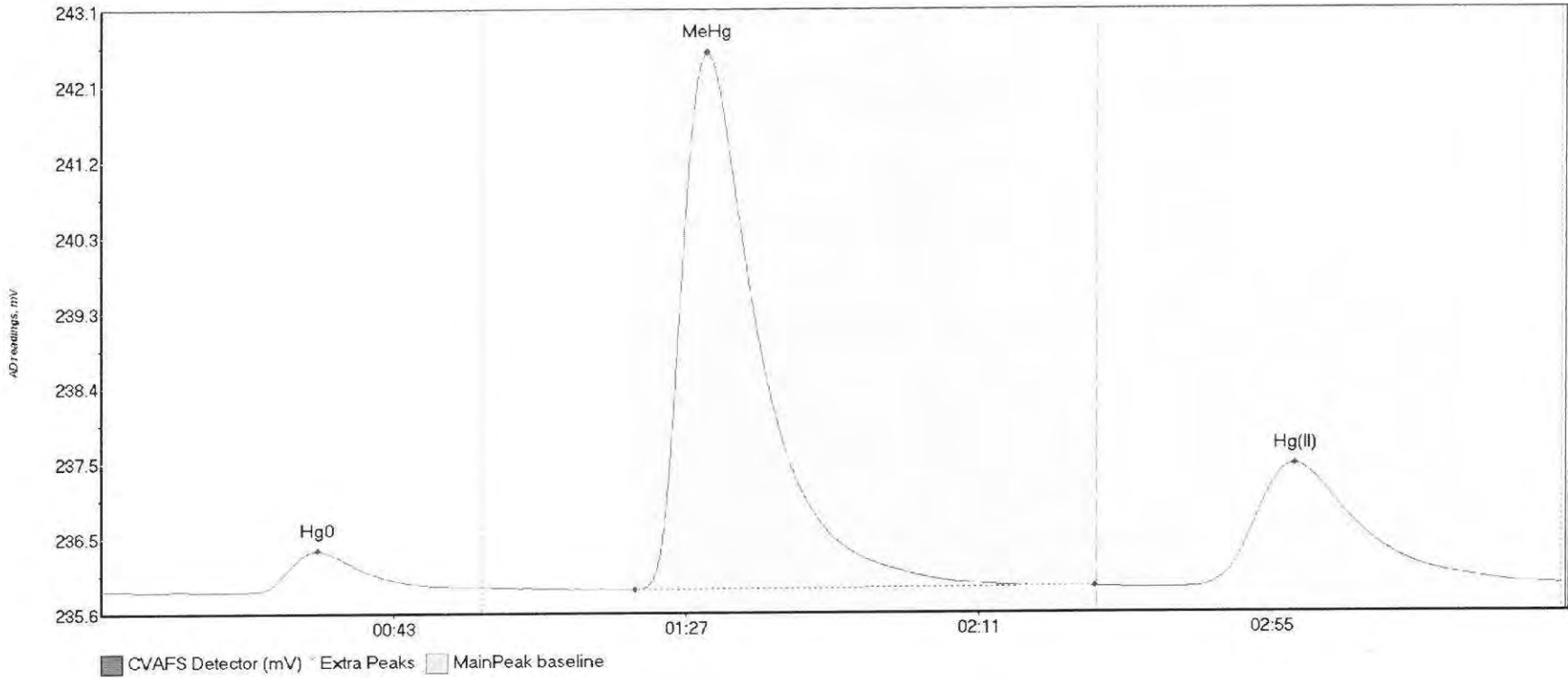
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608618-05 Hg0	28.799	23.8	57.5	235.90	235.92	31.7	0.229	CT	235.9020	0.00	0.04	
1608618-05 MeHg	35.051	81.5	124.7	235.92	235.92	91.0	0.264	OK	235.9020	0.00	0.04	
1608618-05 Hg(I)	127.018	163.0	217.8	235.91	235.94	179.2	0.709	OK	235.9020	0.00	0.04	

#41: 1608618-06



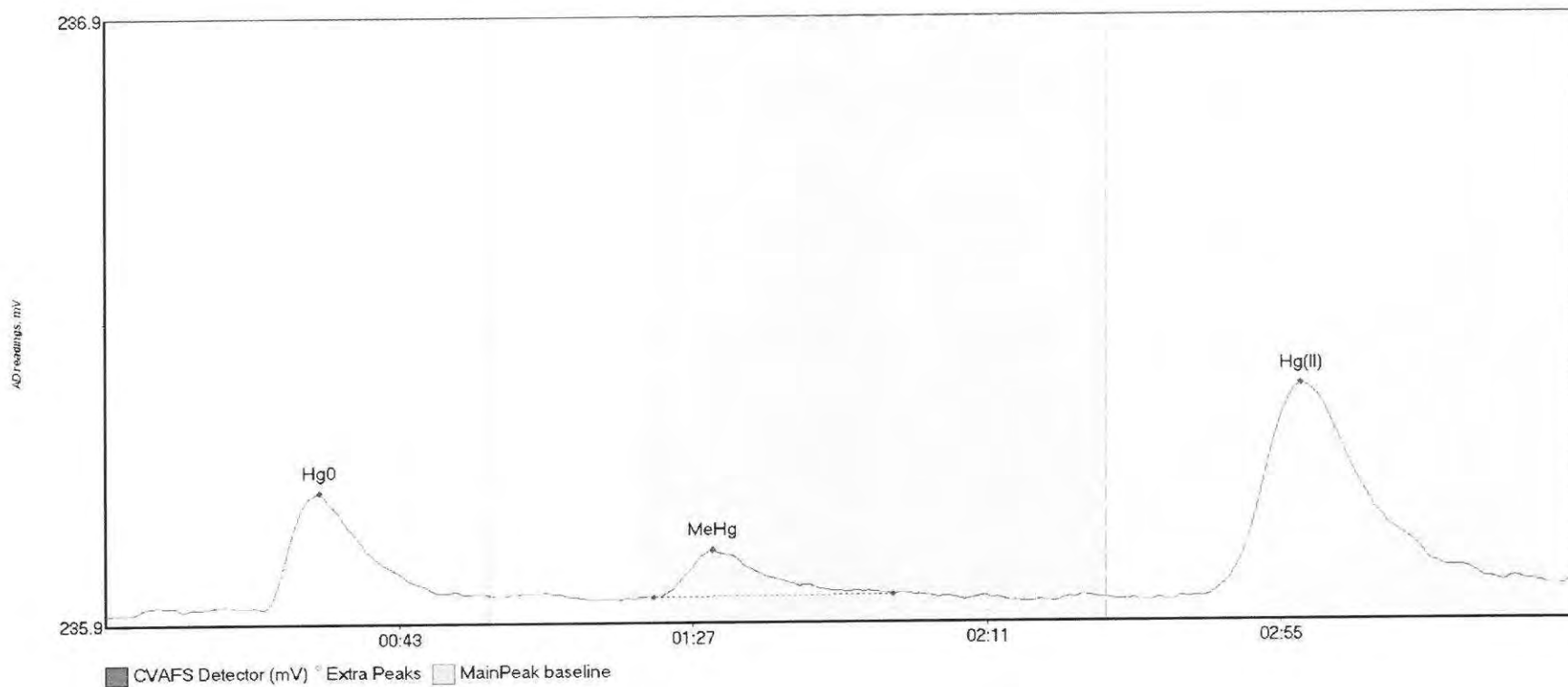
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608618-06 Hg0	60.710	22.0	57.5	235.89	235.94	32.4	0.497	CT	235.8898	0.00	0.06	
1608618-06 MeHg	823.789	80.3	147.0	235.91	235.94	90.9	6.092	OK	235.8898	0.00	0.06	
1608618-06 Hg(I)	160.524	164.6	218.8	235.93	235.95	179.0	0.904	OK	235.8898	0.00	0.06	

#42: 1608618-07



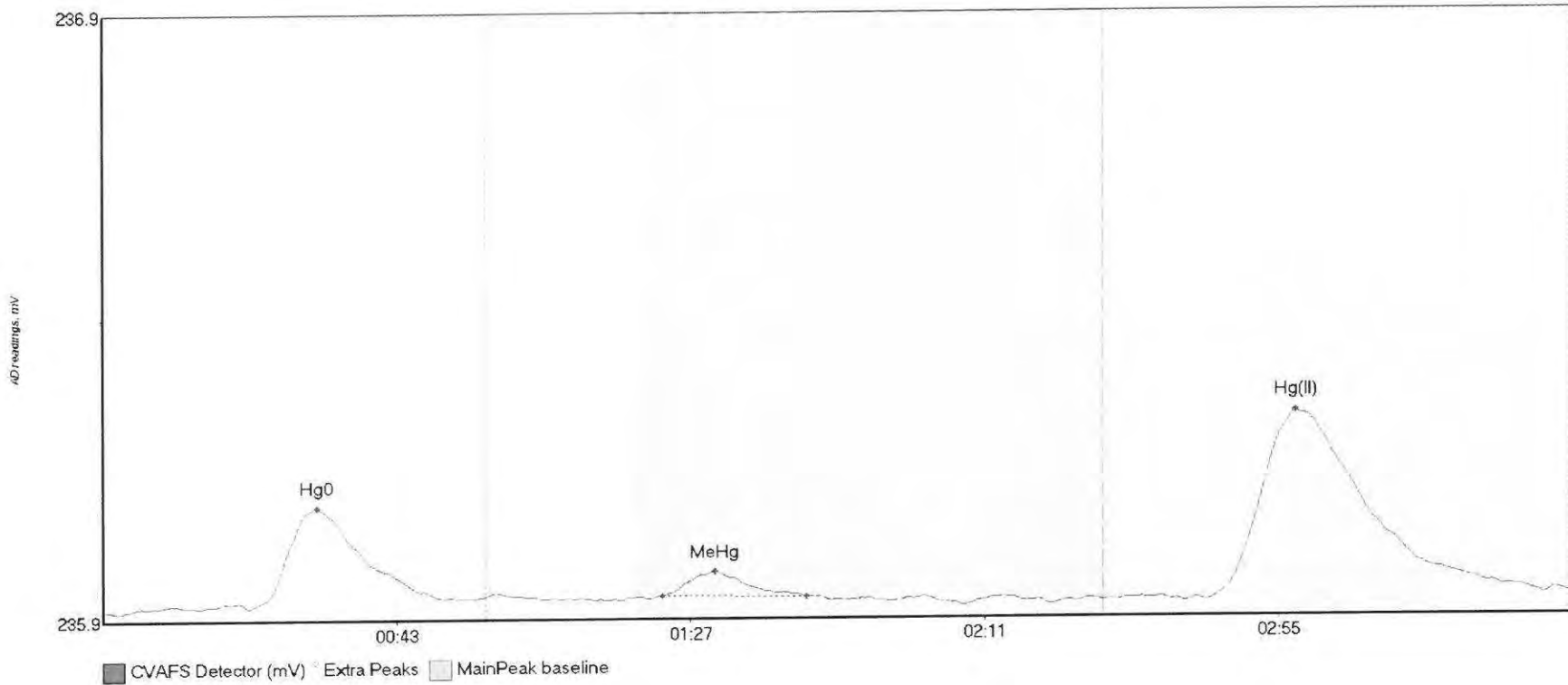
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
1608618-07 Hg0	58.936	22.1	56.5	235.89	235.94	32.7	0.505	OK	235.8953	0.00	0.06	
1608618-07 MeHg	901.205	80.3	149.6	235.91	235.93	91.2	6.643	OK	235.8953	0.00	0.06	
1608618-07 Hg(I)	273.994	163.3	219.8	235.92	235.96	179.5	1.528	CT	235.8953	0.00	0.06	

#43: 1608618-08



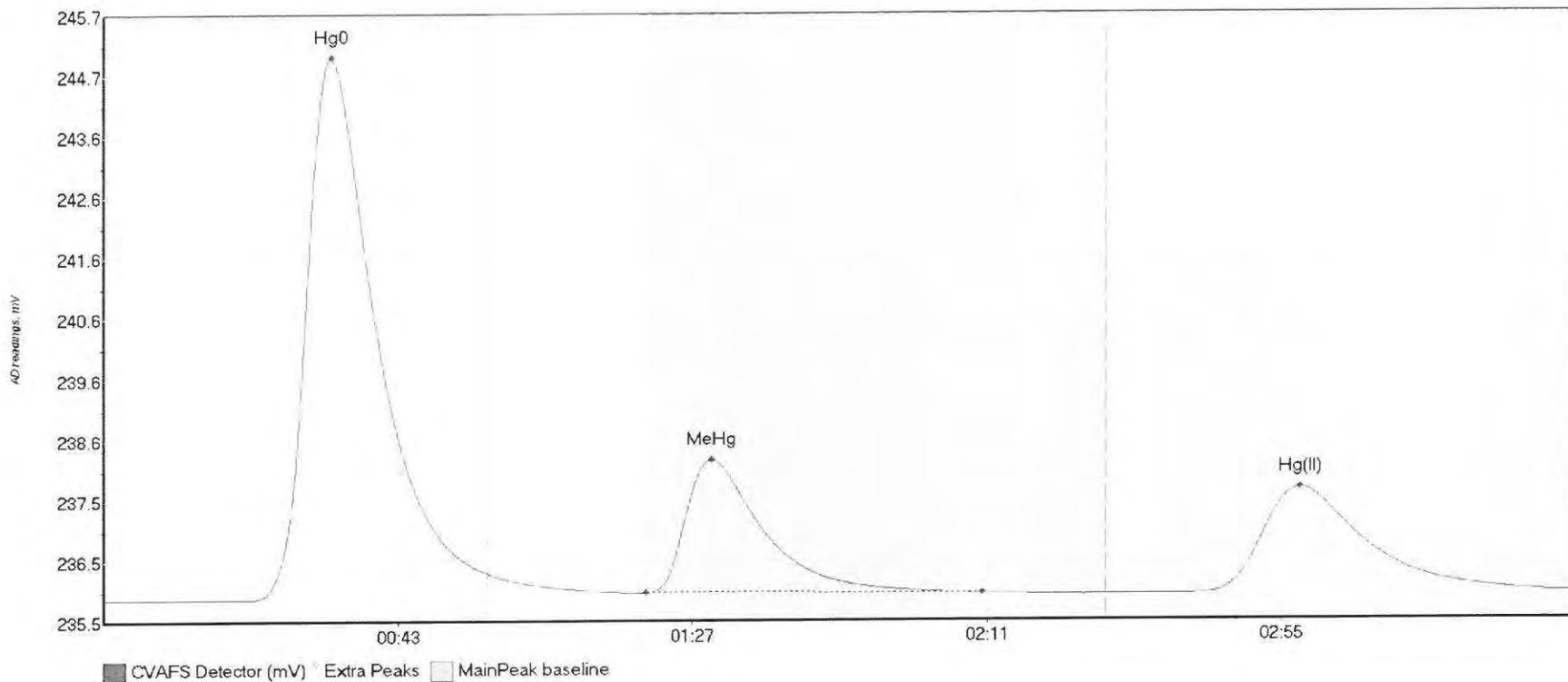
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608618-08 Hg0	23.844	3.9	57.5	235.88	235.91	32.1	0.200	CT	235.8778	0.00	0.05	
1608618-08 MeHg	10.049	82.2	117.9	235.90	235.91	91.0	0.077	OK	235.8778	0.00	0.05	
1608618-08 Hg(I)	61.182	164.2	218.4	235.90	235.92	179.1	0.351	OK	235.8778	0.00	0.05	

#44: 1608663-01



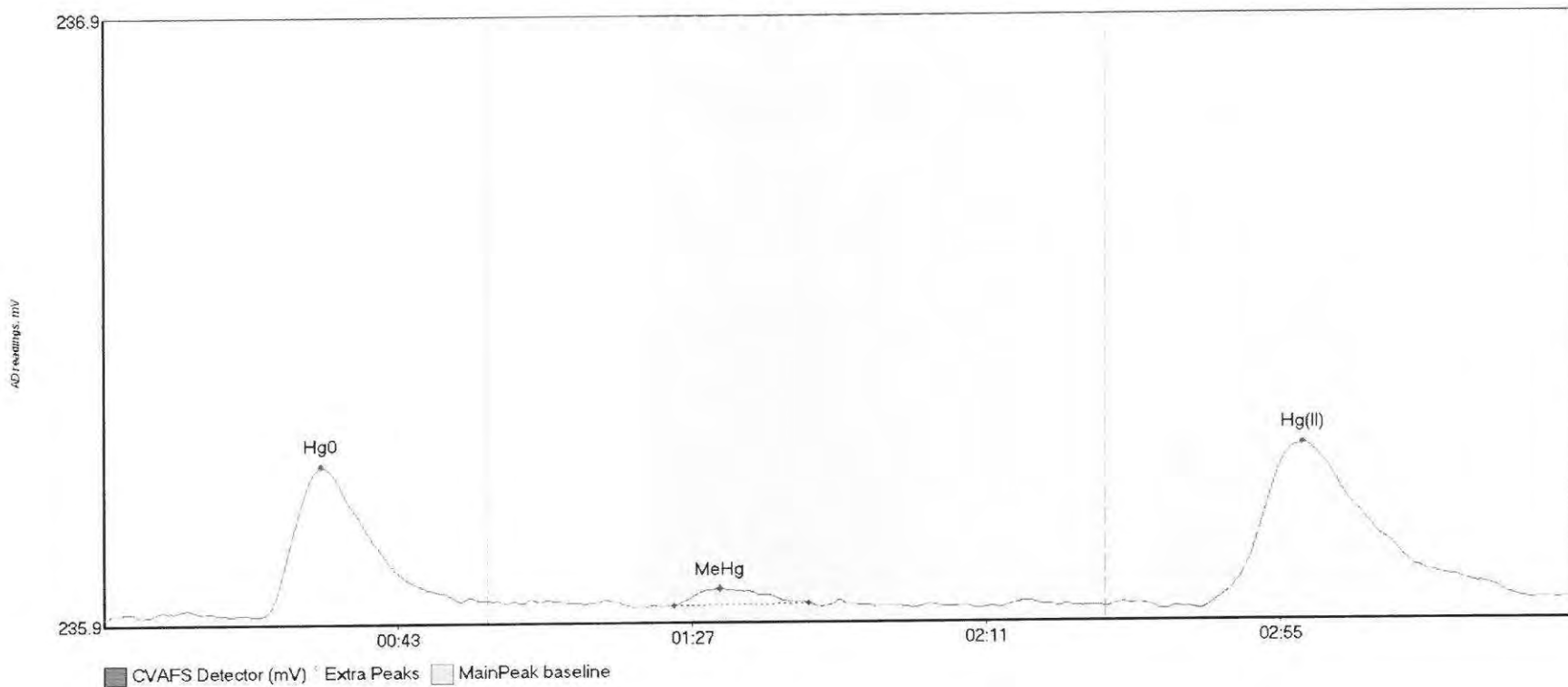
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
1608663-01 Hg0	20.044	21.9	53.0	235.88	235.90	32.1	0.165	OK	235.8790	0.00	0.02	
1608663-01 MeHg	4.019	83.8	105.4	235.90	235.90	91.7	0.040	OK	235.8790	0.00	0.02	
1608663-01 Hg(I)	56.505	165.4	216.1	235.89	235.90	178.6	0.311	OK	235.8790	0.00	0.02	

#45: SEQ-CCV3



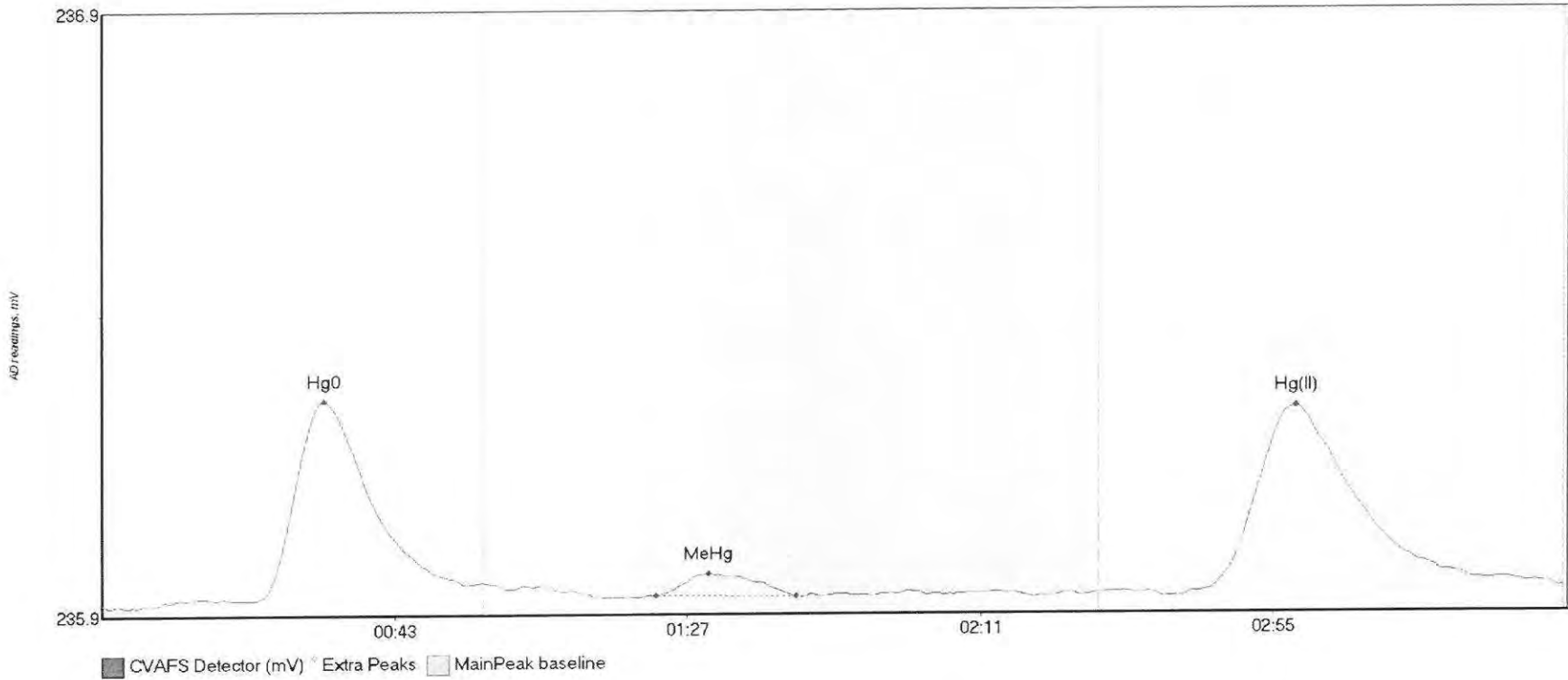
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
SEQ-CCV3 Hg0	1038.397	20.5	57.5	235.87	236.30	34.1	9.079	CT	235.8731	0.00	0.09	
SEQ-CCV3 MeHg	298.441	81.2	131.3	235.97	235.95	91.0	2.231	OK	235.8731	0.00	0.09	
SEQ-CCV3 Hg(II)	313.516	161.7	219.8	235.94	235.96	178.9	1.775	CT	235.8731	0.00	0.09	

#46: SEQ-CCB3



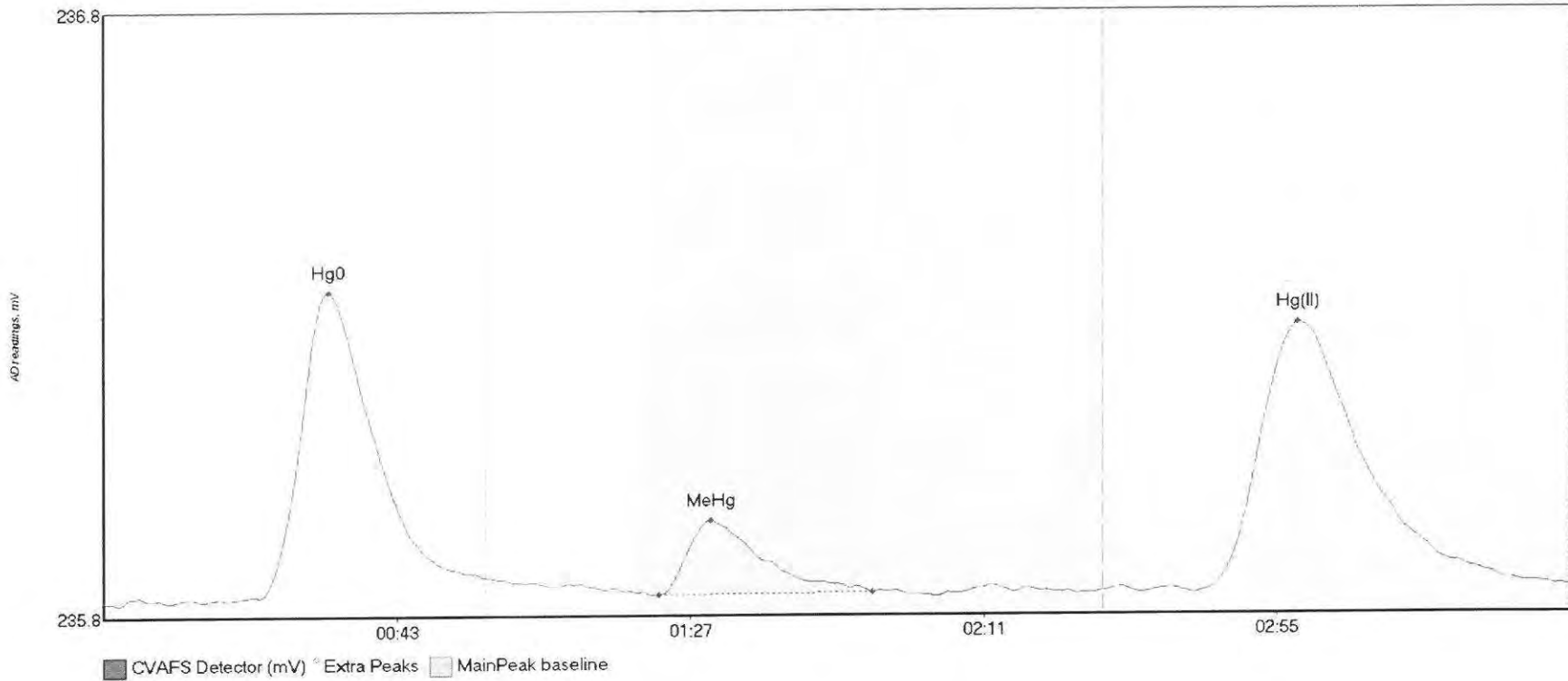
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB3 Hg0	29.887	23.6	53.4	235.88	235.90	32.6	0.246	OK	235.8757	0.00	0.02	
SEQ-CCB3 MeHg	3.133	85.3	105.5	235.89	235.89	92.1	0.028	OK	235.8757	0.00	0.02	
SEQ-CCB3 Hg(II)	50.900	164.1	213.8	235.88	235.90	179.3	0.273	OK	235.8757	0.00	0.02	

#47: 1608323-01



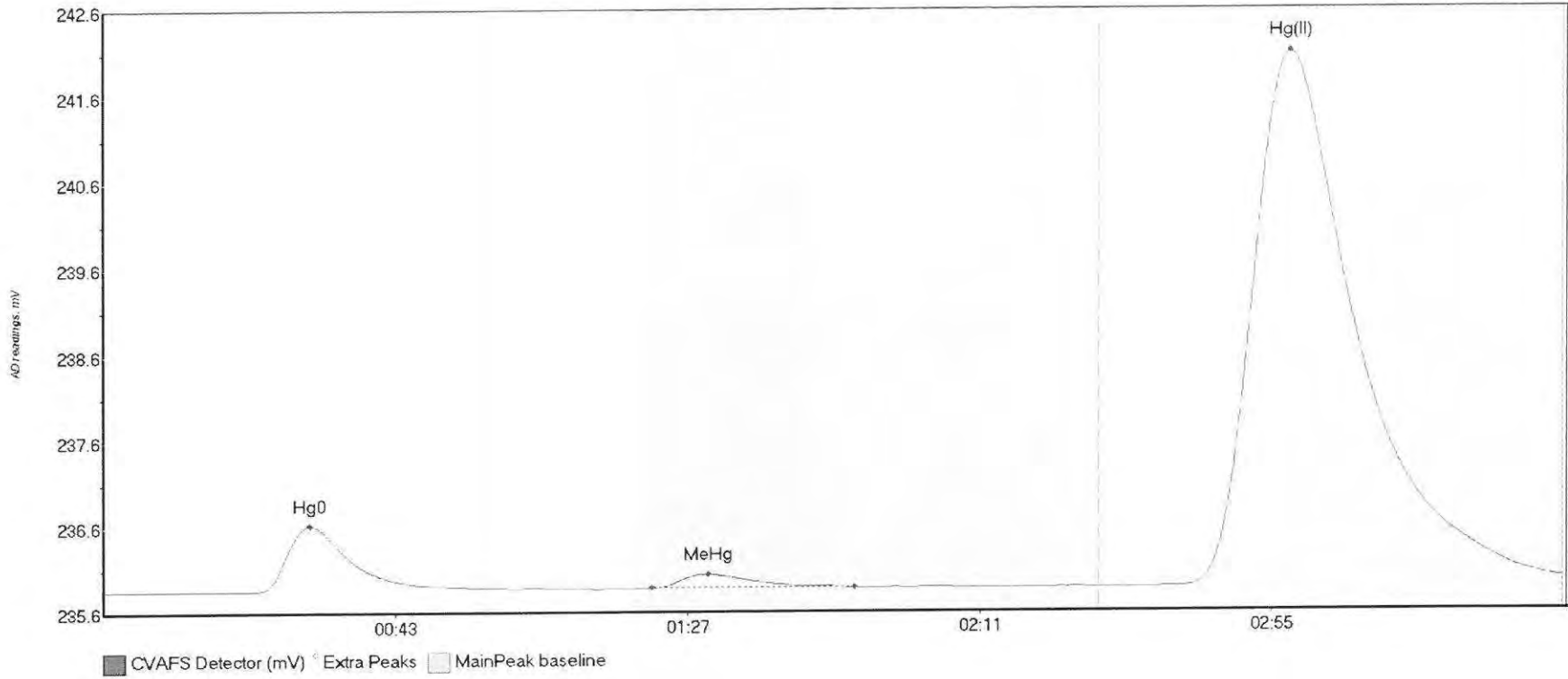
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-01 Hg0	40.853	7.9	55.0	235.87	235.90	33.4	0.339	OK	235.8720	0.00	0.03	
1608323-01 MeHg	4.543	83.3	104.5	235.89	235.88	91.3	0.036	OK	235.8720	0.00	0.03	
1608323-01 Hg(I)	53.278	164.8	219.1	235.89	235.90	179.4	0.307	OK	235.8720	0.00	0.03	

#48: 1608323-07



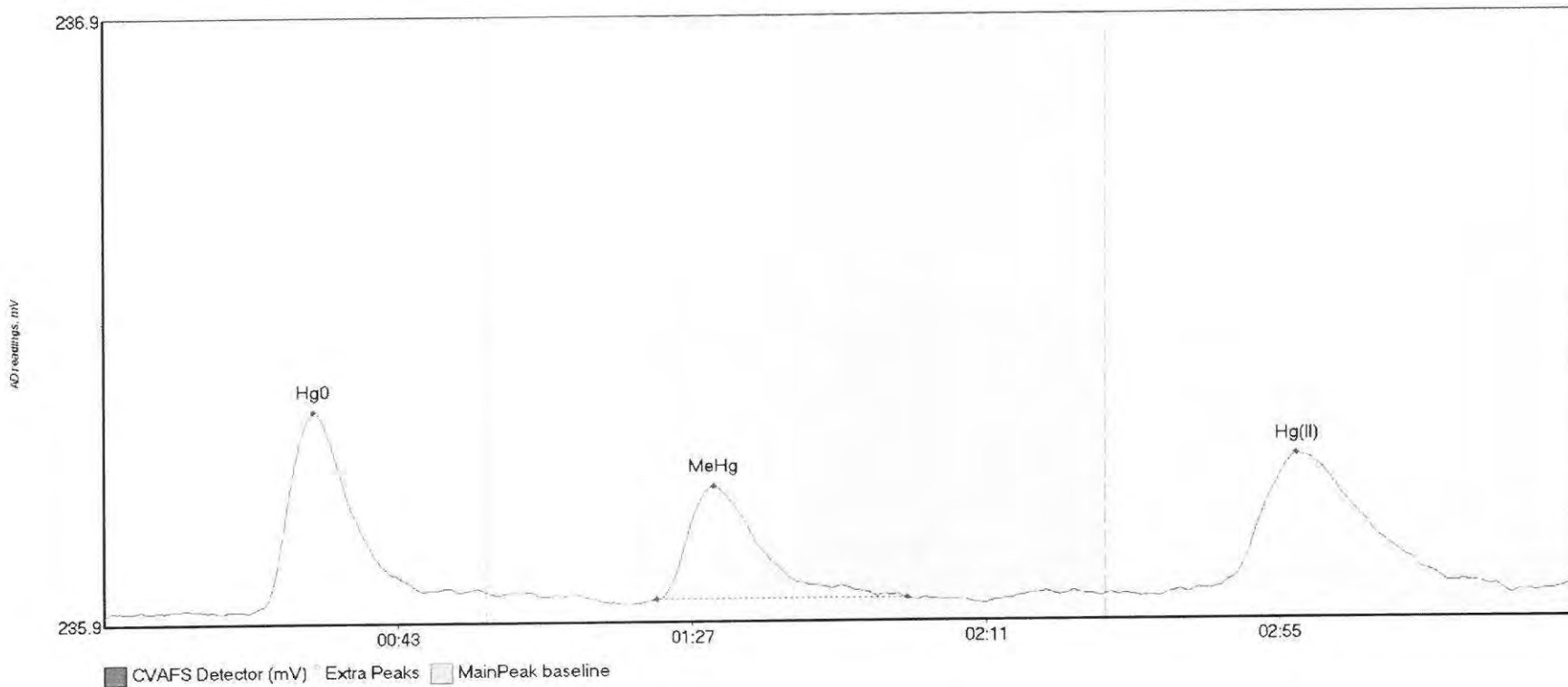
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-07 Hg0	60.657	19.8	57.4	235.87	235.90	33.8	0.509	OK	235.8653	0.00	0.02	
1608323-07 MeHg	15.746	83.3	115.3	235.88	235.88	91.1	0.123	OK	235.8653	0.00	0.02	
1608323-07 Hg(I)	79.430	163.8	219.8	235.88	235.89	179.2	0.446	CT	235.8653	0.00	0.02	

#49: 1608361-05



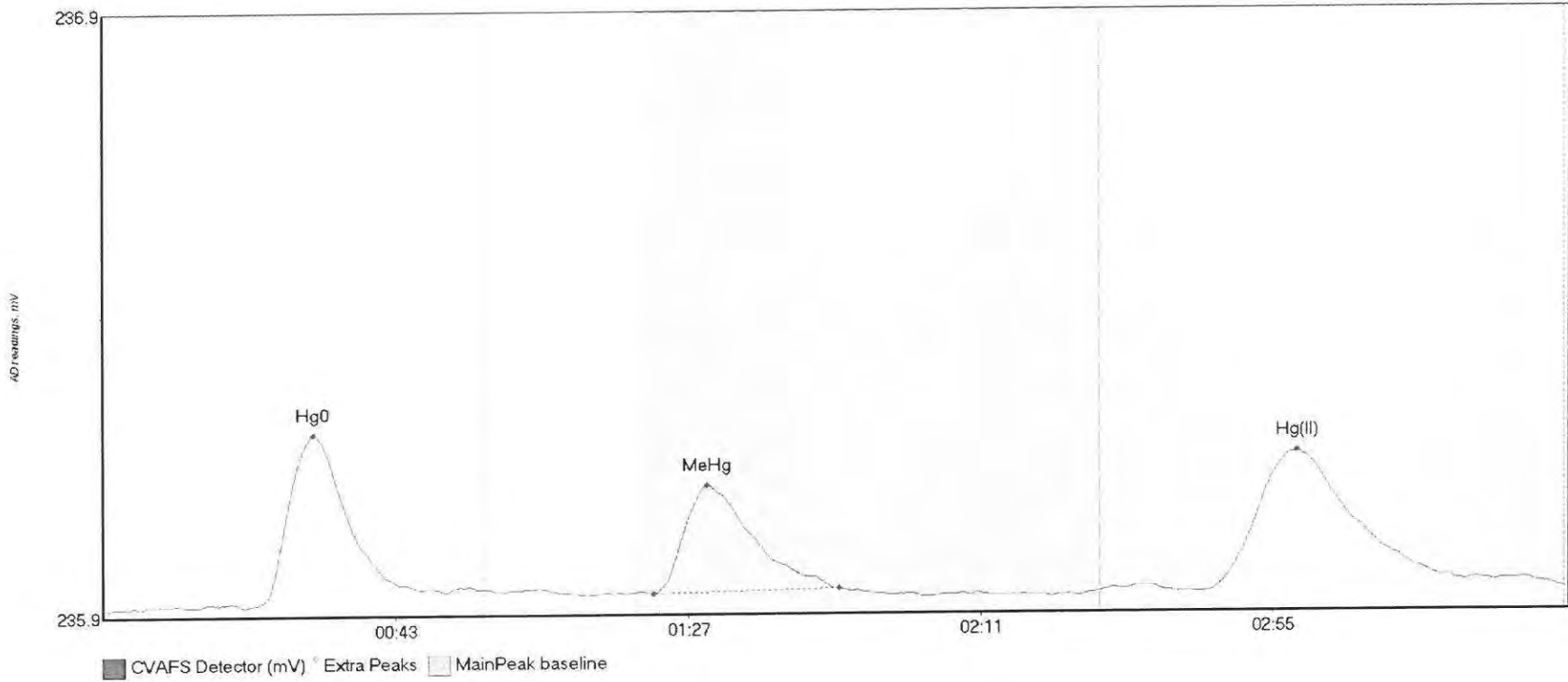
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608361-05 Hg0	80.807	21.7	56.6	235.86	235.90	31.2	0.763	OK	235.8605	0.00	0.14	
1608361-05 MeHg	19.978	82.6	113.1	235.89	235.88	91.2	0.157	OK	235.8605	0.00	0.14	
1608361-05 Hg(I)	1099.108	156.6	219.8	235.89	235.99	178.9	6.214	CT	235.8605	0.00	0.14	

#50: F609314-BLK1



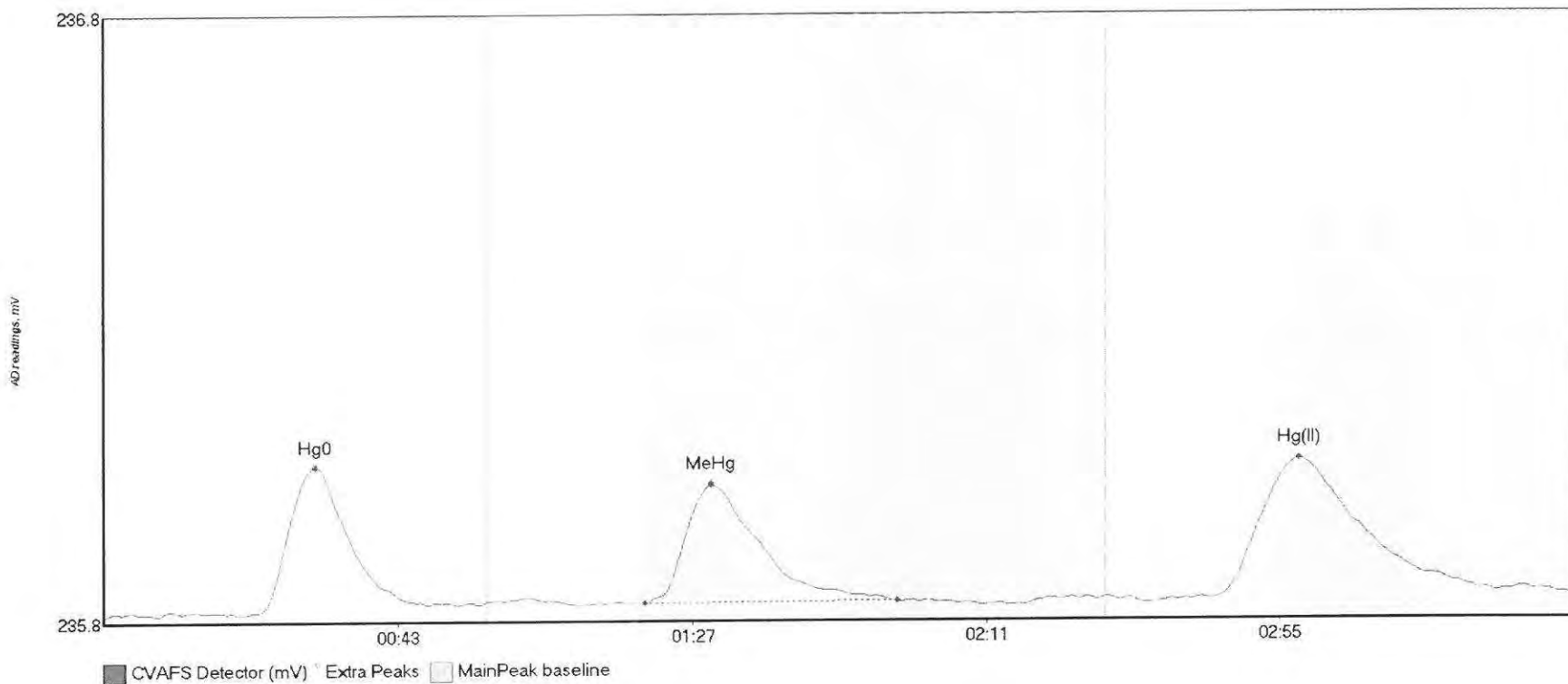
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
F609314-BLK1 Hg	34.794	21.7	57.5	235.87	235.90	31.5	0.331	CT	235.8672	0.00	0.04	
F609314-BLK1 Me	23.321	82.8	120.3	235.89	235.89	91.3	0.187	OK	235.8672	0.00	0.04	
F609314-BLK1 Hg	41.528	162.4	210.7	235.90	235.89	178.6	0.227	OK	235.8672	0.00	0.04	

#51: F609314-BLK2



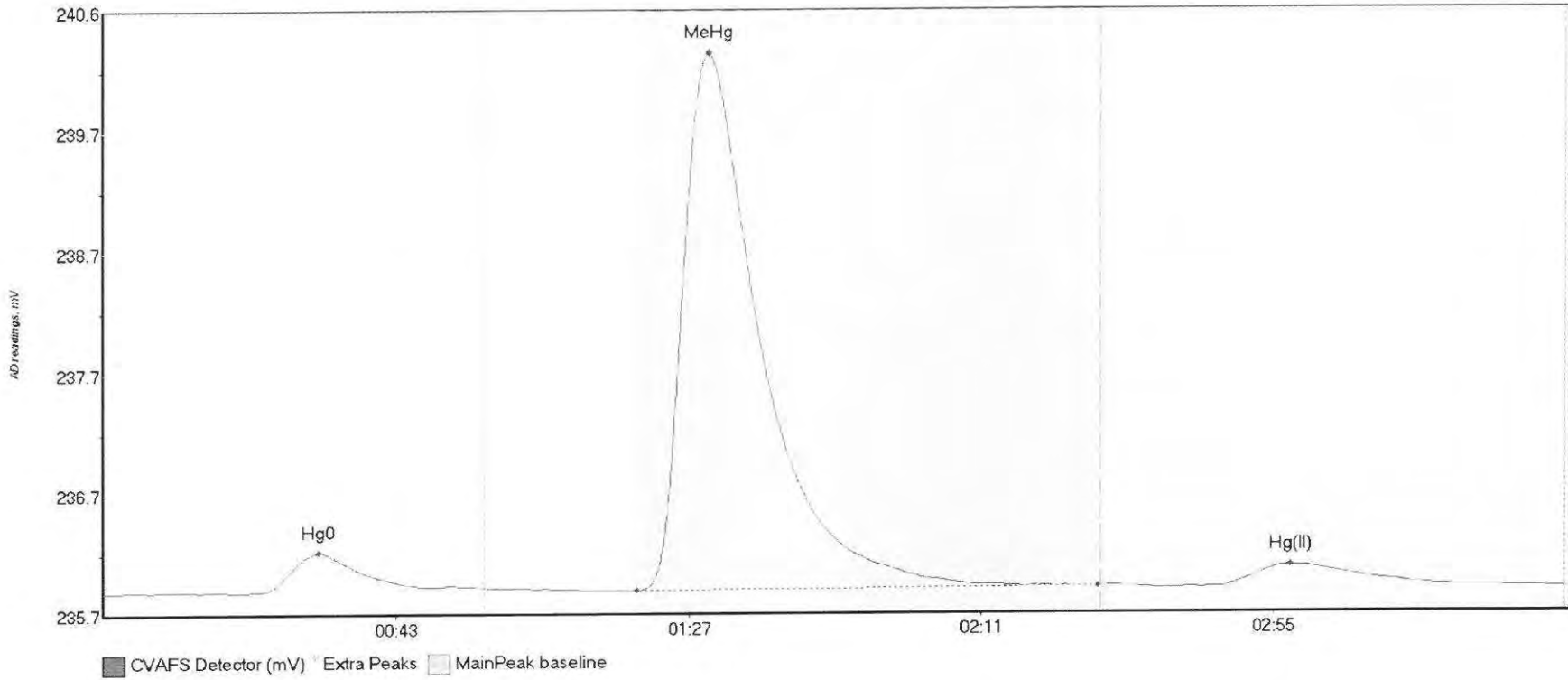
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609314-BLK2 Hg	28.366	21.2	51.7	235.87	235.90	31.6	0.286	OK	235.8719	0.00	0.03	
F609314-BLK2 Me	20.986	82.8	110.7	235.89	235.90	90.9	0.180	OK	235.8719	0.00	0.03	
F609314-BLK2 Hg	40.902	166.2	219.8	235.89	235.90	179.8	0.231	CT	235.8719	0.00	0.03	

#52: F609314-BLK3



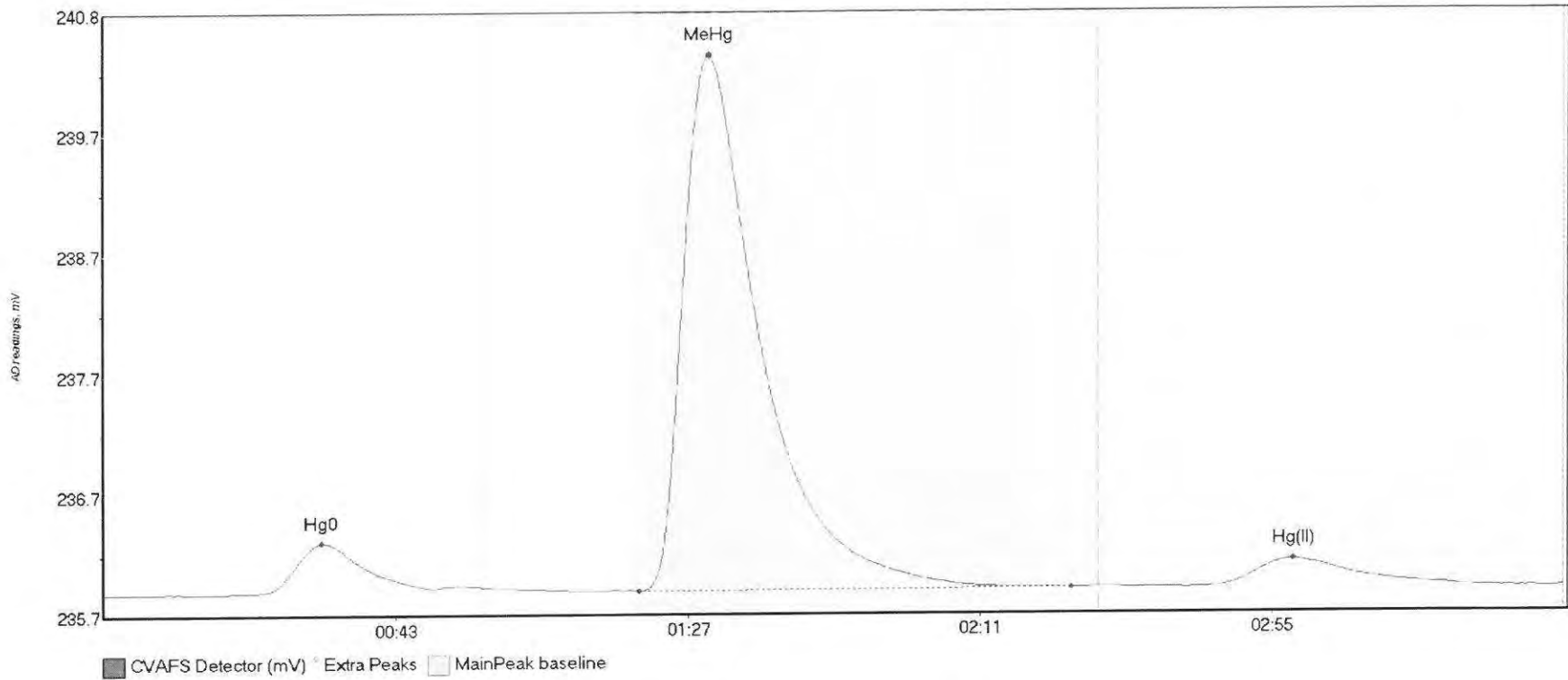
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
F609314-BLK3 Hg	24.311	23.0	52.9	235.87	235.88	31.6	0.242	OK	235.8615	0.00	0.03	
F609314-BLK3 Me	24.880	80.9	118.8	235.88	235.88	90.8	0.195	OK	235.8615	0.00	0.03	
F609314-BLK3 Hg	40.569	166.3	219.8	235.88	235.89	178.9	0.230	CT	235.8615	0.00	0.03	

#53: F609314-BS1



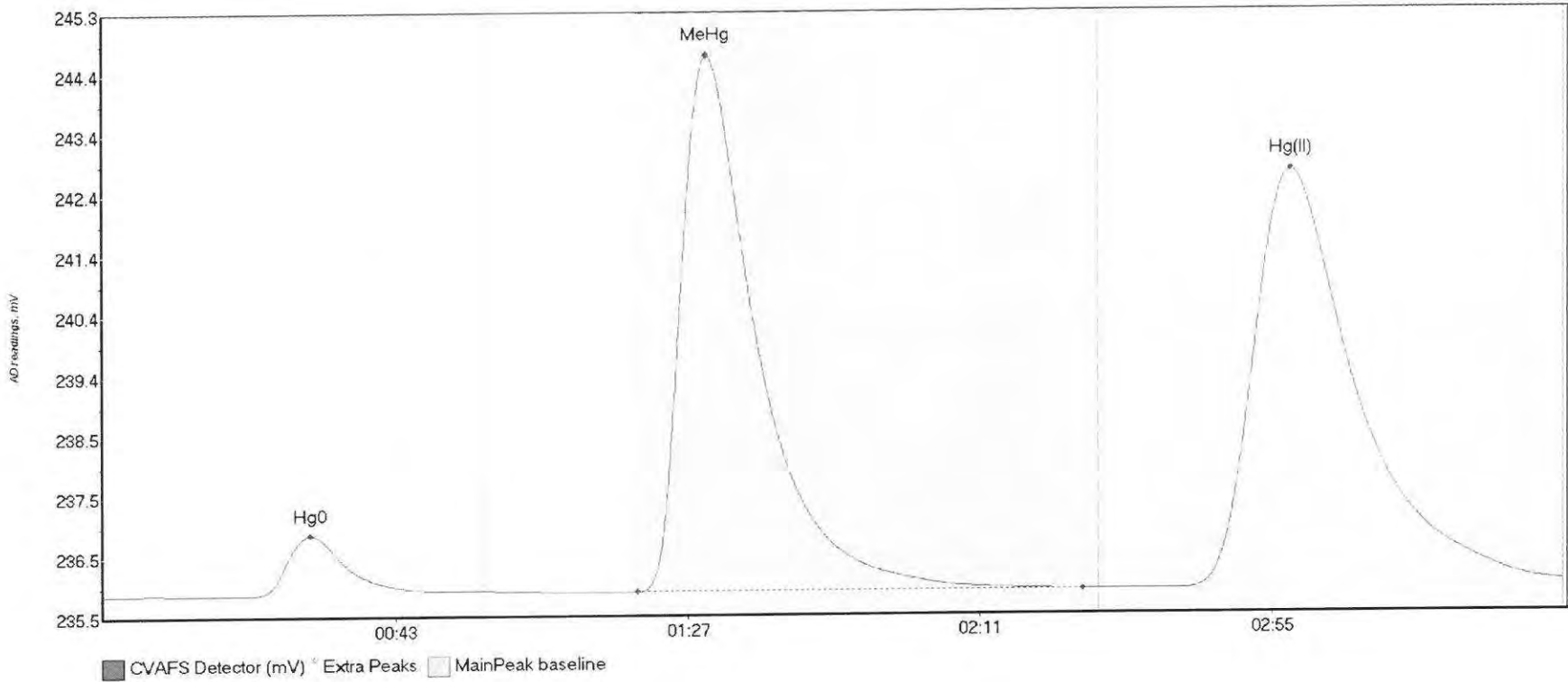
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609314-BS1 Hg0	38.092	20.6	57.5	235.86	235.90	32.5	0.331	CT	235.8595	0.00	0.03	
F609314-BS1 MeH	598.854	80.1	149.5	235.88	235.90	91.0	4.411	OK	235.8595	0.00	0.03	
F609314-BS1 Hg(	30.205	167.5	203.5	235.89	235.90	178.6	0.178	OK	235.8595	0.00	0.03	

#54: F609314-BSD1



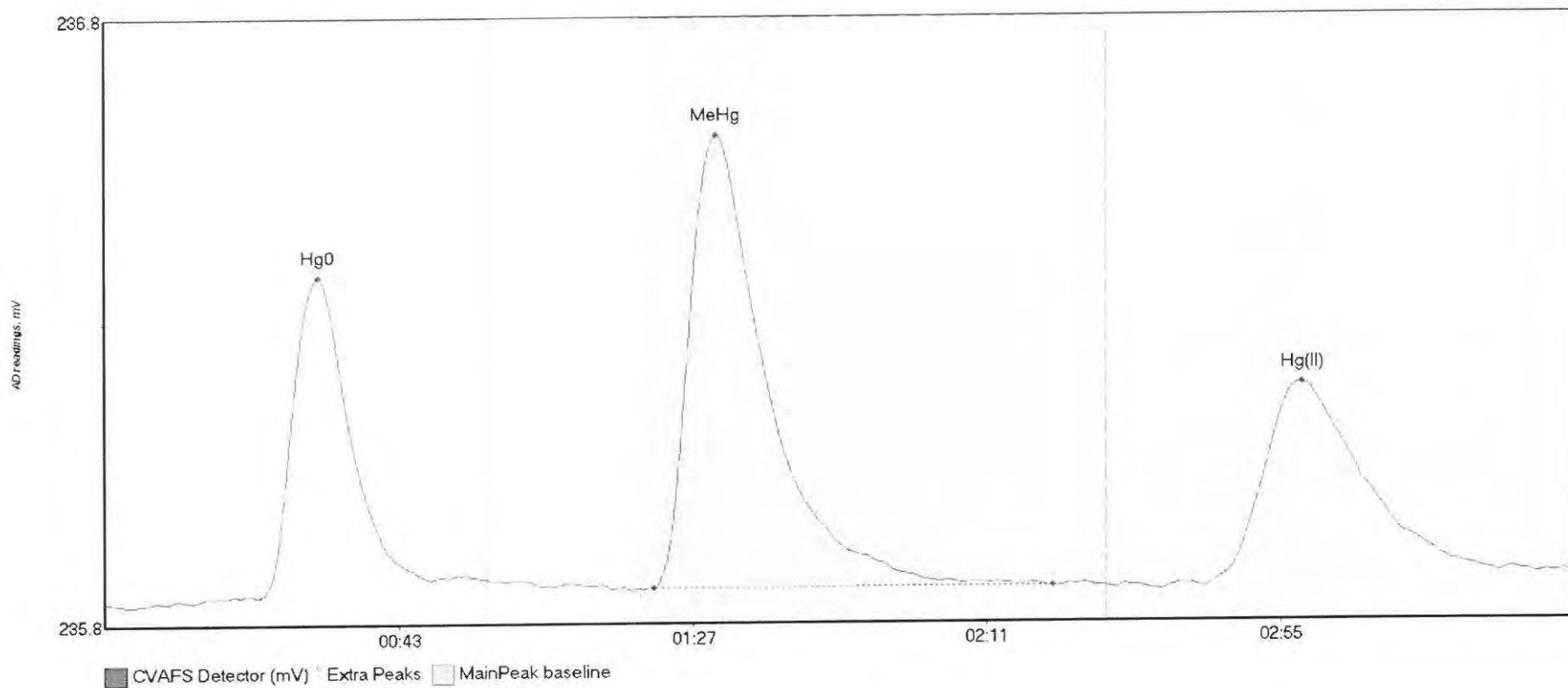
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609314-BSD1 Hg	45.486	16.4	49.9	235.86	235.90	32.7	0.427	OK	235.8572	0.00	0.03	
F609314-BSD1 Me	611.947	80.6	145.8	235.87	235.89	91.1	4.518	OK	235.8572	0.00	0.03	
F609314-BSD1 Hg	36.035	167.7	206.0	235.90	235.90	179.3	0.221	OK	235.8572	0.00	0.03	

#55: 1608072-01



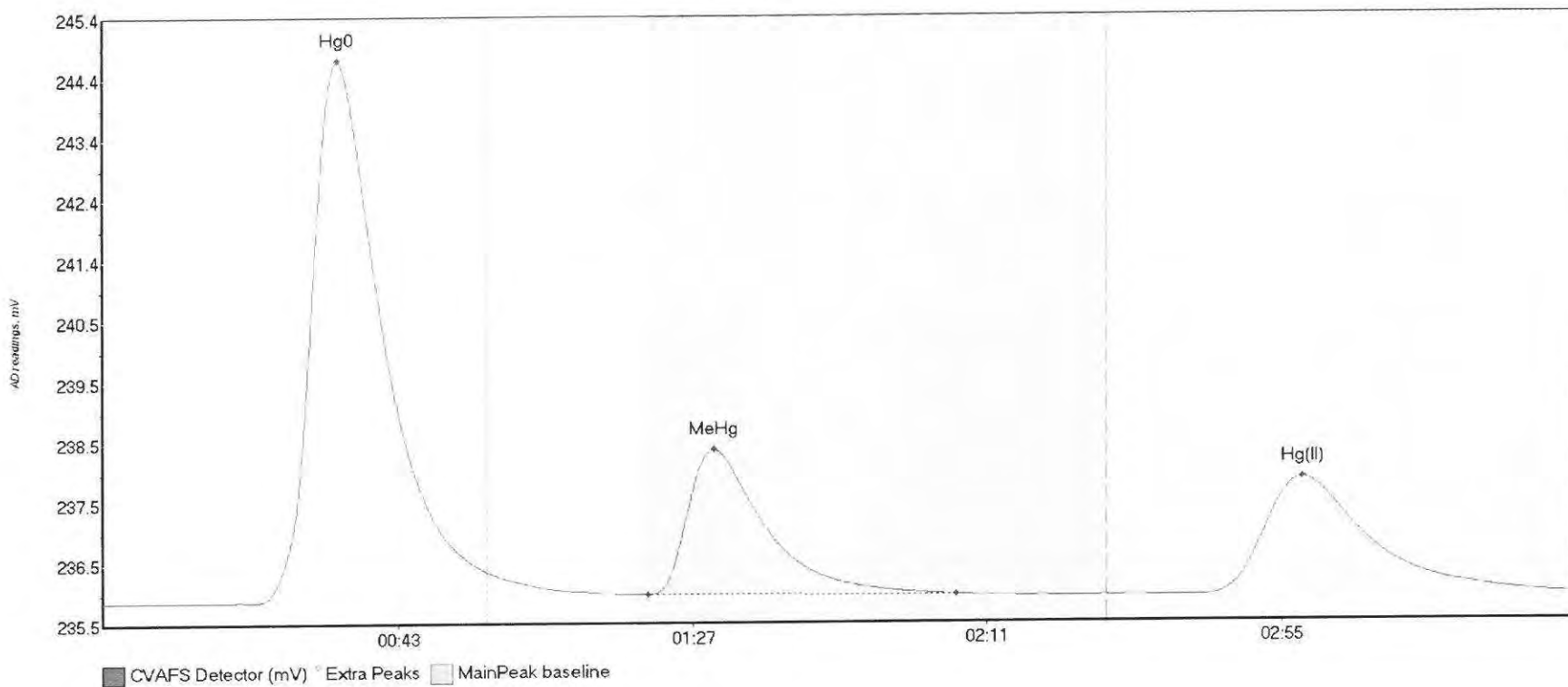
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608072-01 Hg0	96.047	21.3	55.2	235.86	235.91	31.3	0.977	OK	235.8608	0.00	0.15	
1608072-01 MeHg	1167.989	80.5	147.5	235.89	235.90	90.8	8.747	OK	235.8608	0.00	0.15	
1608072-01 Hg(I)	1207.389	162.0	219.8	235.90	236.01	178.9	6.838	CT	235.8608	0.00	0.15	

#56: 1608361-06



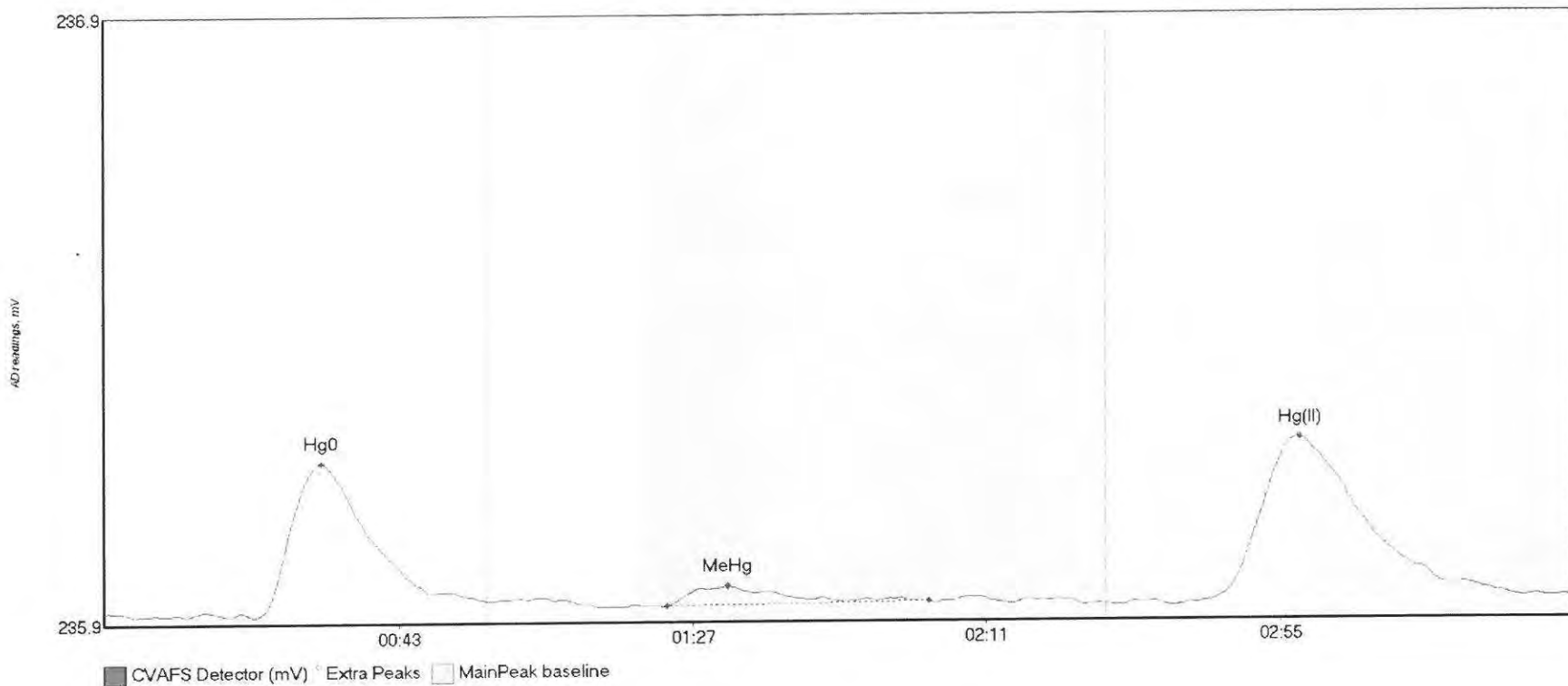
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608361-06 Hg0	52.727	13.2	57.5	235.85	235.88	31.8	0.537	CT	235.8463	0.00	0.04	
1608361-06 MeHg	100.491	82.1	141.9	235.87	235.87	91.5	0.748	OK	235.8463	0.00	0.04	
1608361-06 Hg(I)	57.342	164.6	214.3	235.87	235.89	179.3	0.336	OK	235.8463	0.00	0.04	

#57: SEQ-CCV4



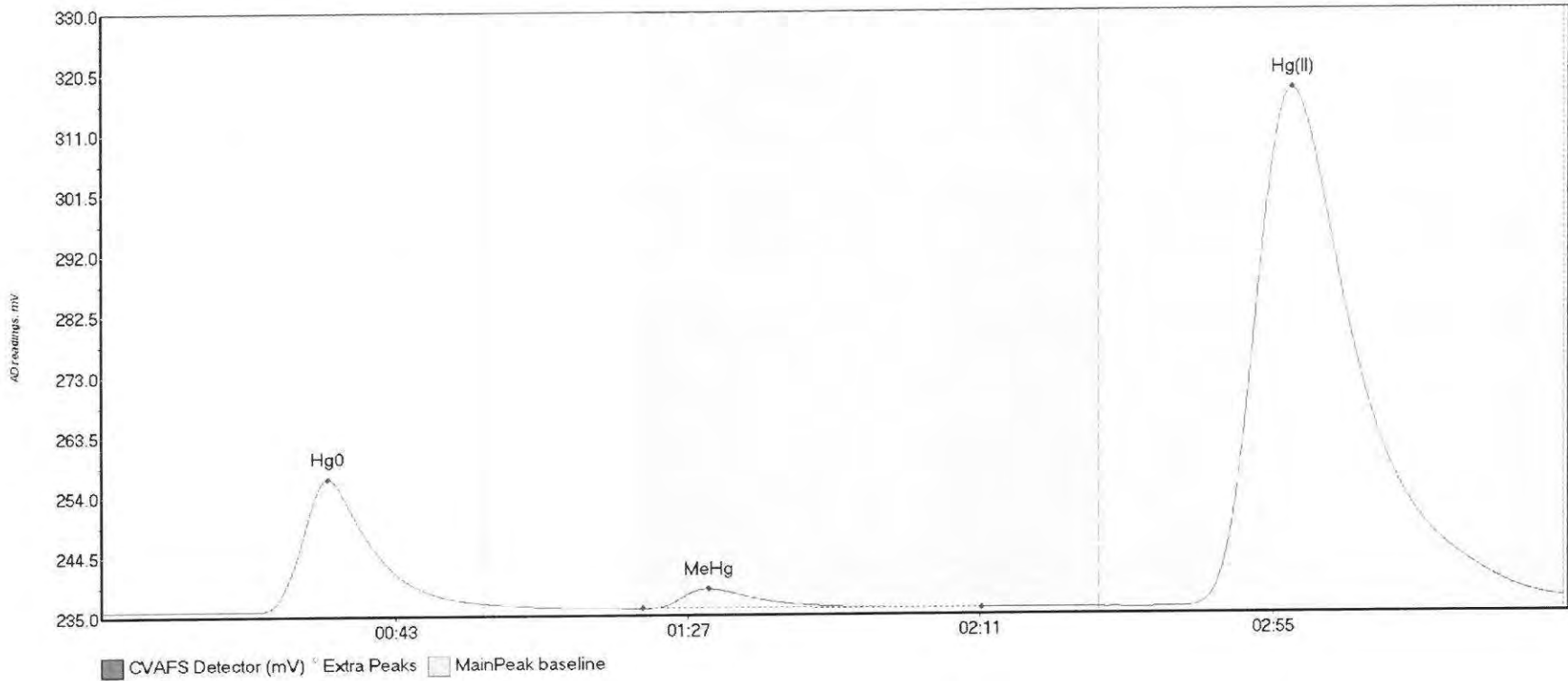
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV4 Hg0	1009.168	8.6	57.5	235.85	236.33	34.8	8.859	CT	235.8508	0.00	0.09	
SEQ-CCV4 MeHg	316.040	81.3	127.4	235.97	235.95	91.1	2.375	OK	235.8508	0.00	0.09	
SEQ-CCV4 Hg(II)	343.245	164.3	219.8	235.92	235.94	179.2	1.915	CT	235.8508	0.00	0.09	

#58: SEQ-CCB4



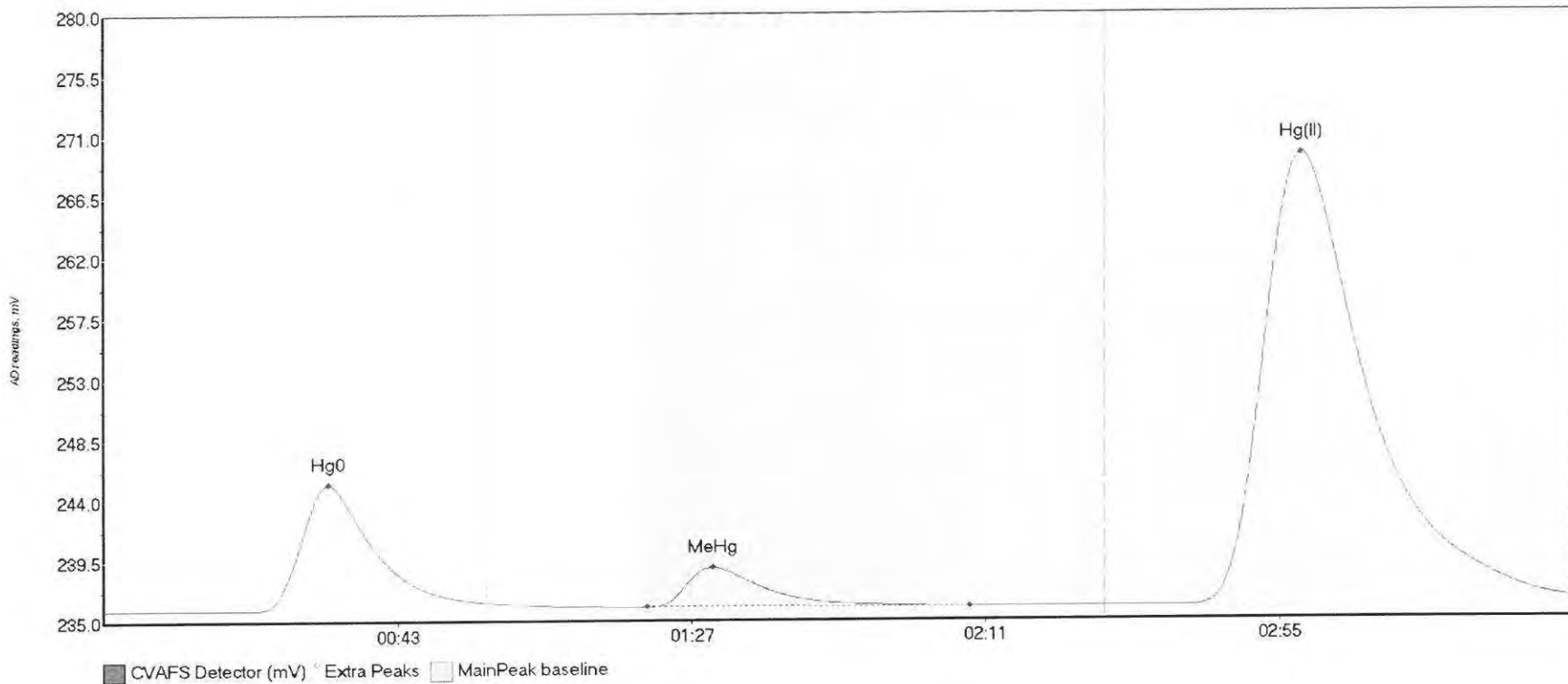
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB4 Hg0	32.644	22.4	57.5	235.87	235.89	32.4	0.254	CT	235.8748	0.00	0.02	
SEQ-CCB4 MeHg	5.138	84.1	123.4	235.88	235.89	93.1	0.033	OK	235.8748	0.00	0.02	
SEQ-CCB4 Hg(II)	47.794	163.6	217.0	235.88	235.89	178.9	0.272	OK	235.8748	0.00	0.02	

#59: 1608323-01RE1



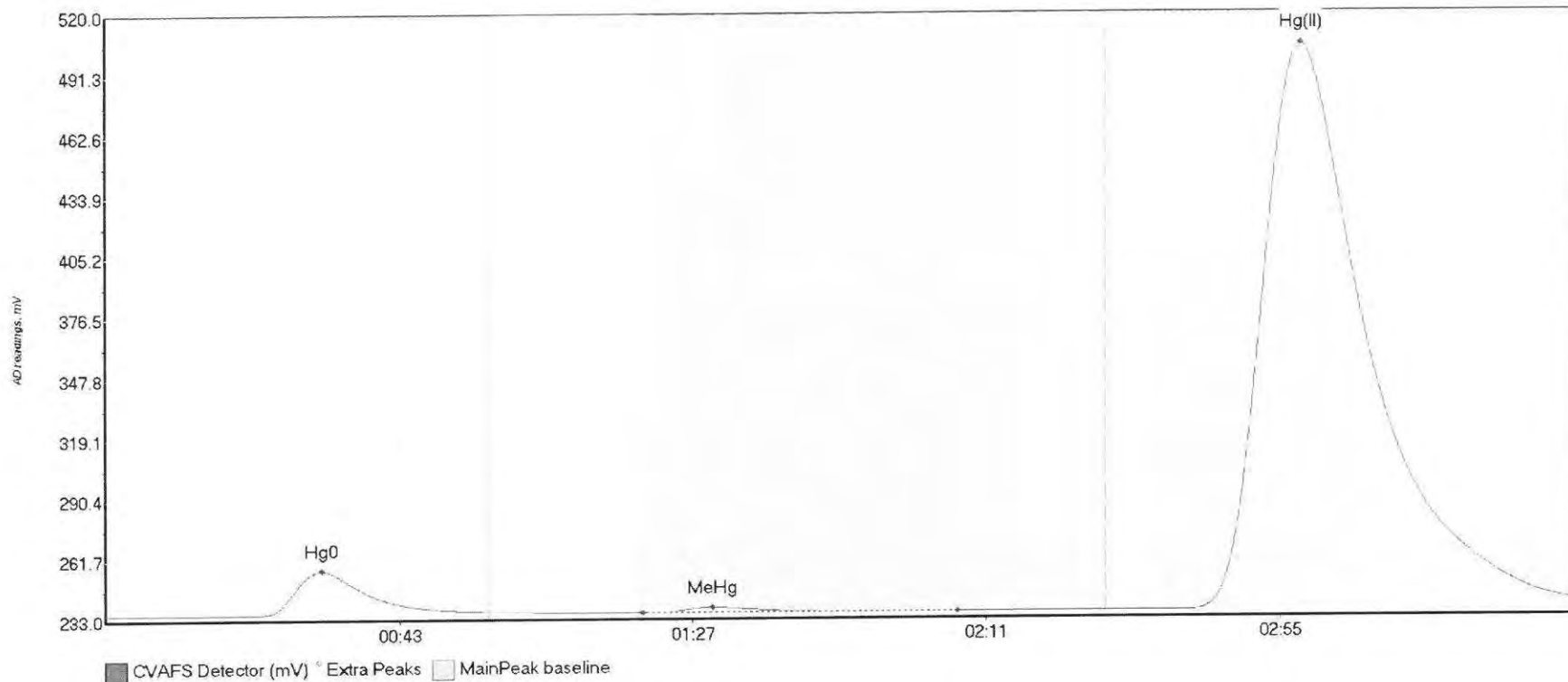
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-01RE1 H	2351.318	14.8	57.5	235.86	236.95	33.9	20.886	CT	235.8569	0.00	1.59	
1608323-01RE1 M	408.125	81.3	132.3	236.11	236.01	91.1	3.074	OK	235.8569	0.00	1.59	
1608323-01RE1 H	14524.731	160.5	219.8	235.98	237.41	179.0	81.614	CT	235.8569	0.00	1.59	

#60: 1608323-02



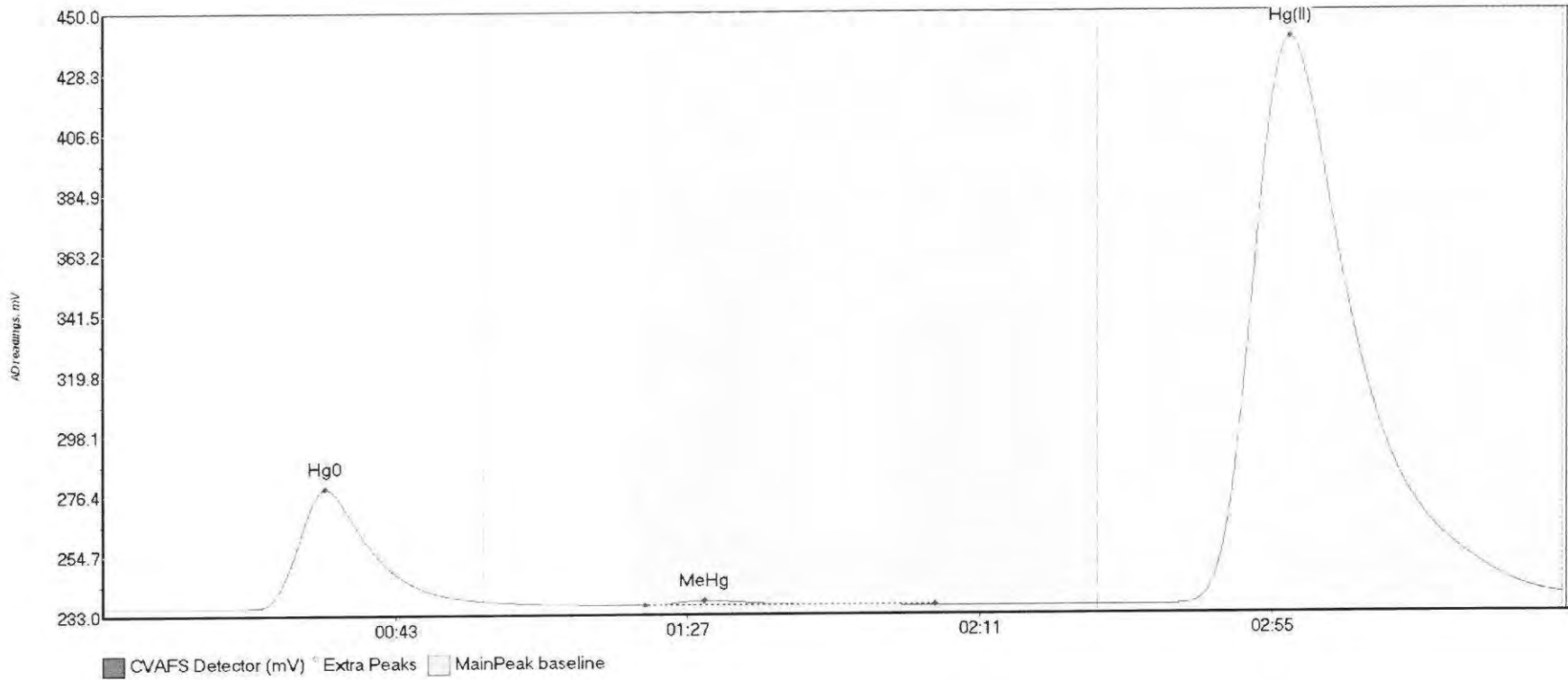
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-02 Hg0	1091.029	22.0	57.5	235.87	236.36	33.7	9.314	CT	235.8701	0.00	0.70	
1608323-02 MeHg	385.866	81.4	129.7	236.01	236.00	91.1	2.926	OK	235.8701	0.00	0.70	
1608323-02 Hg(I)	5961.751	161.6	219.8	235.96	236.56	179.2	33.573	CT	235.8701	0.00	0.70	

#61: 1608323-03



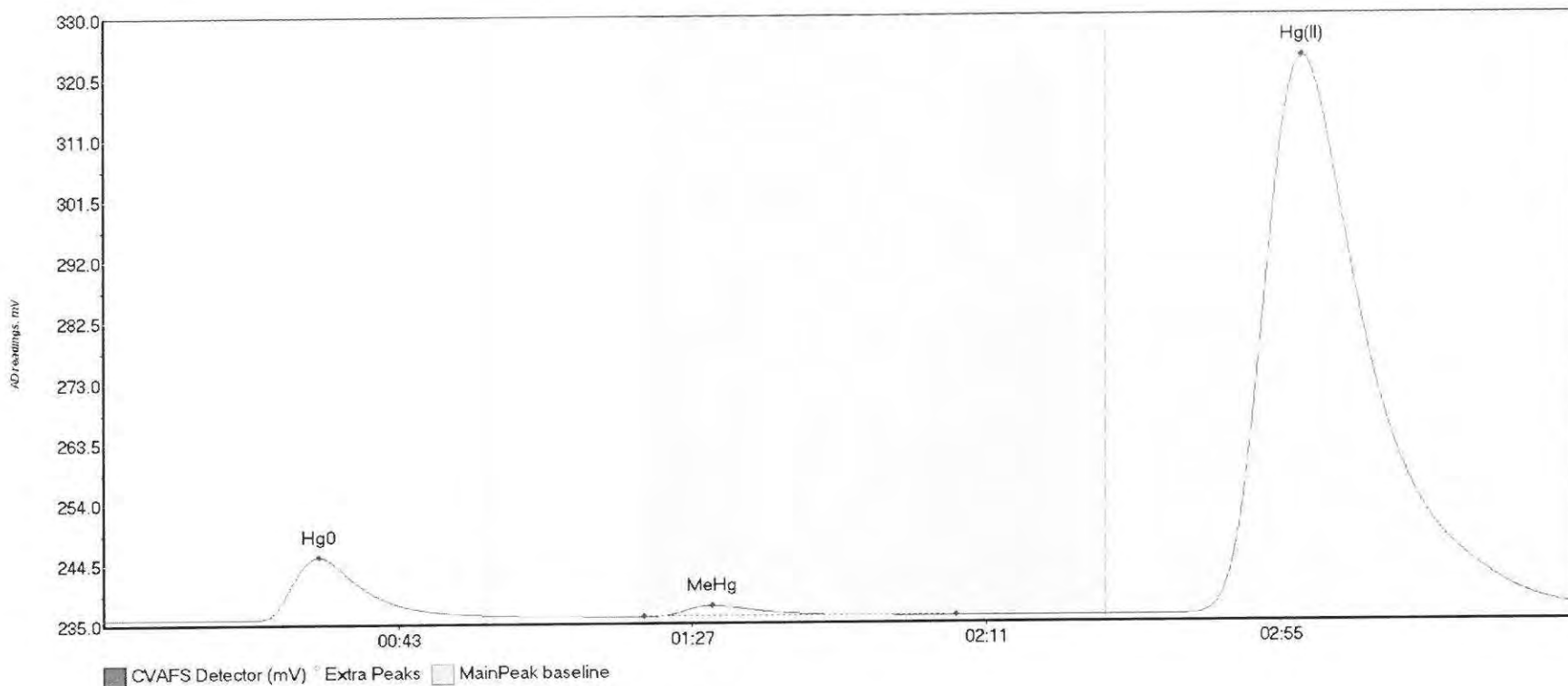
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
1608323-03 Hg0	2357.646	14.1	57.5	235.89	236.77	32.4	20.542	CT	235.8819	0.00	5.36	
1608323-03 MeHg	303.490	80.6	127.8	236.13	236.05	91.0	2.290	OK	235.8819	0.00	5.36	
1608323-03 Hg(I)	48272.893	150.1	219.8	236.03	241.13	179.0	268.830	CT	235.8819	0.00	5.36	

#62: 1608323-04



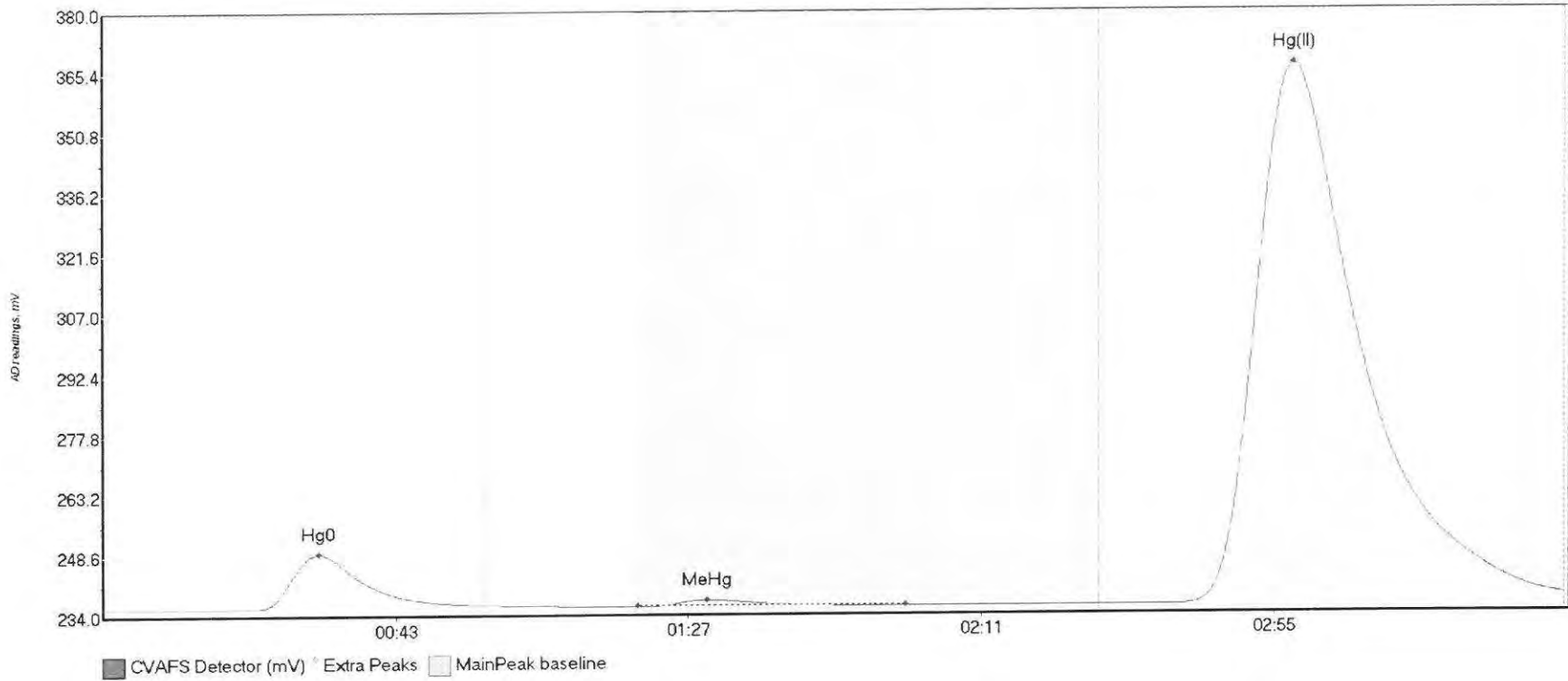
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-04 Hg0	5027.611	13.9	57.5	235.91	238.00	33.5	42.853	CT	235.9112	0.00	3.96	
1608323-04 MeHg	202.209	81.7	125.3	236.42	236.23	90.6	1.559	OK	235.9112	0.00	3.96	
1608323-04 Hg(I)	36466.486	158.1	219.8	236.18	239.79	178.8	204.120	CT	235.9112	0.00	3.96	

#63: 1608323-05



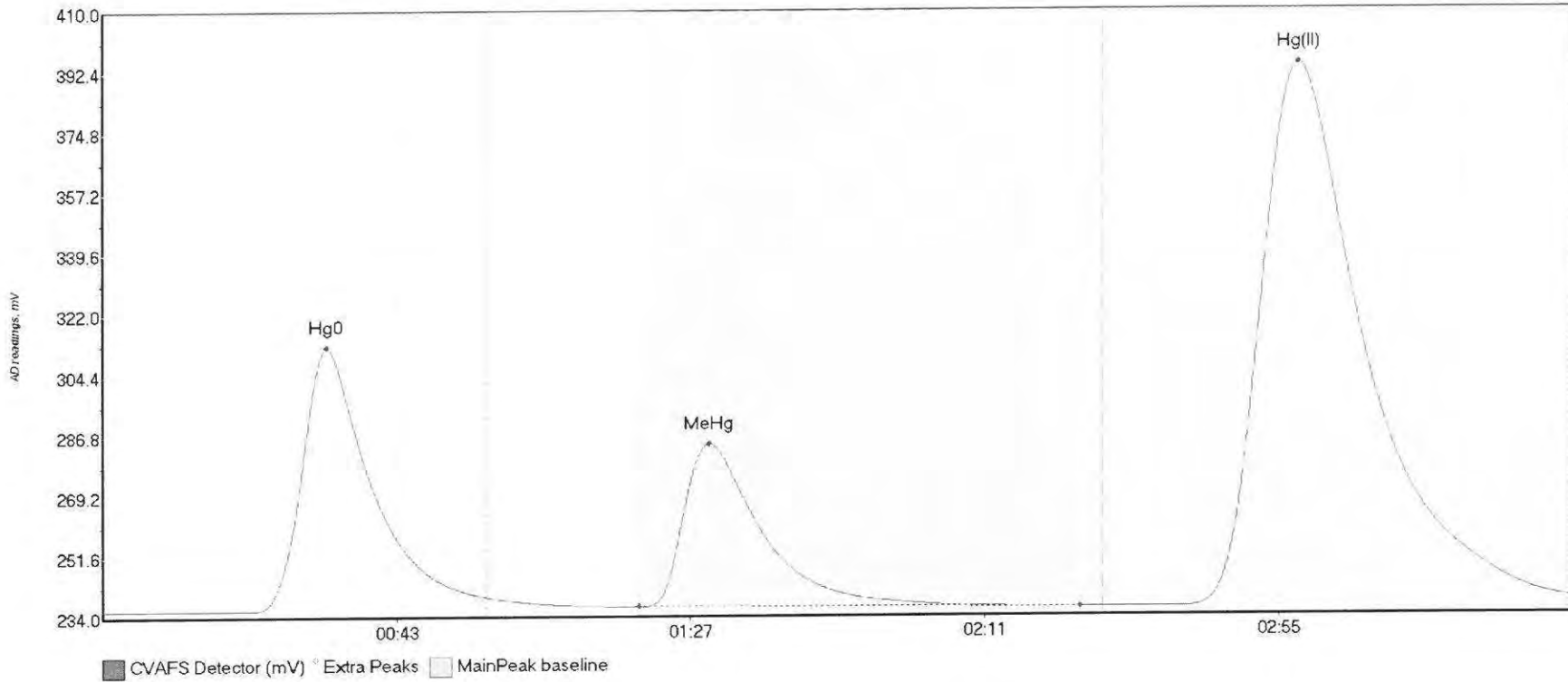
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-05 Hg0	1117.008	14.9	57.5	235.92	236.39	32.3	9.736	CT	235.9146	0.00	1.75	
1608323-05 MeHg	217.372	80.9	127.4	236.10	236.08	91.0	1.648	OK	235.9146	0.00	1.75	
1608323-05 Hg(I)	15573.395	150.1	219.8	236.09	237.63	179.1	87.354	CT	235.9146	0.00	1.75	

#64: 1608323-06



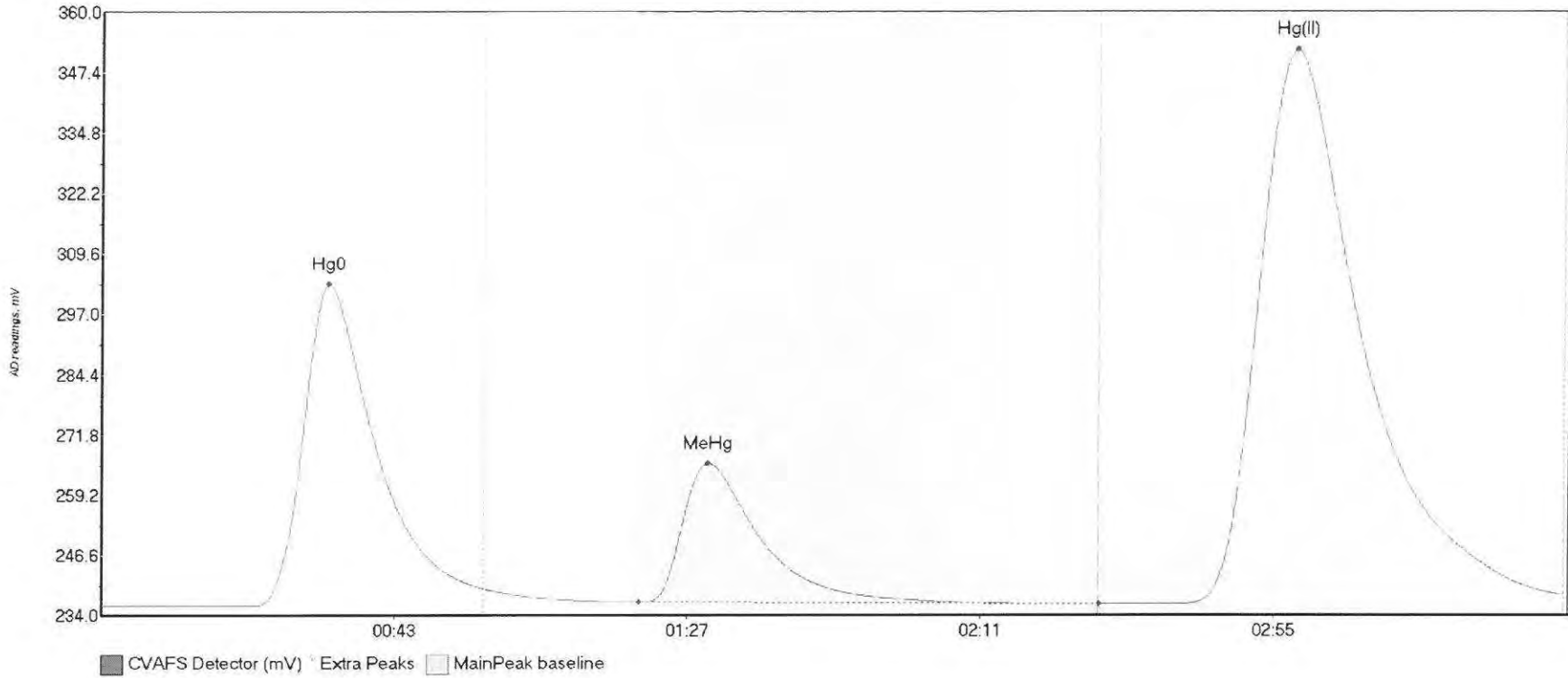
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-06 Hg0	1503.363	3.6	57.5	235.90	236.52	32.4	13.179	CT	235.9033	0.00	2.59	
1608323-06 MeHg	187.504	80.5	120.5	236.10	236.09	90.9	1.462	OK	235.9033	0.00	2.59	
1608323-06 Hg(I)	23360.400	150.1	219.8	236.06	238.44	179.1	130.899	CT	235.9033	0.00	2.59	

#65: 1608323-07RE1



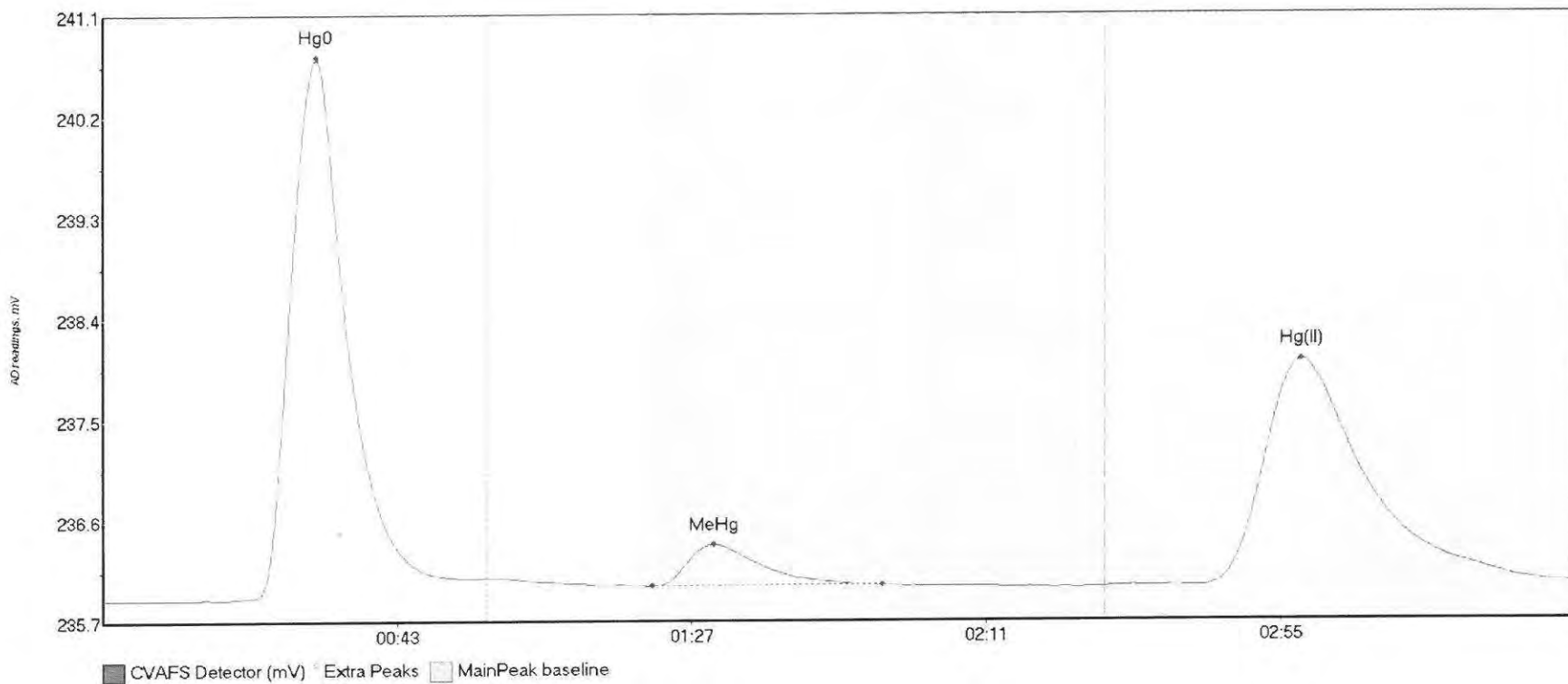
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	B1Dev	B1Shift	Comment
1608323-07RE1 H	8574.768	19.9	57.5	235.91	239.71	33.6	76.642	CT	235.9117	0.00	3.26	
1608323-07RE1 M	6401.203	80.3	146.5	236.79	236.47	90.9	47.478	OK	235.9117	0.00	3.26	
1608323-07RE1 H	28297.890	160.2	219.8	236.44	239.10	178.9	157.965	CT	235.9117	0.00	3.26	

#66: 1608323-08



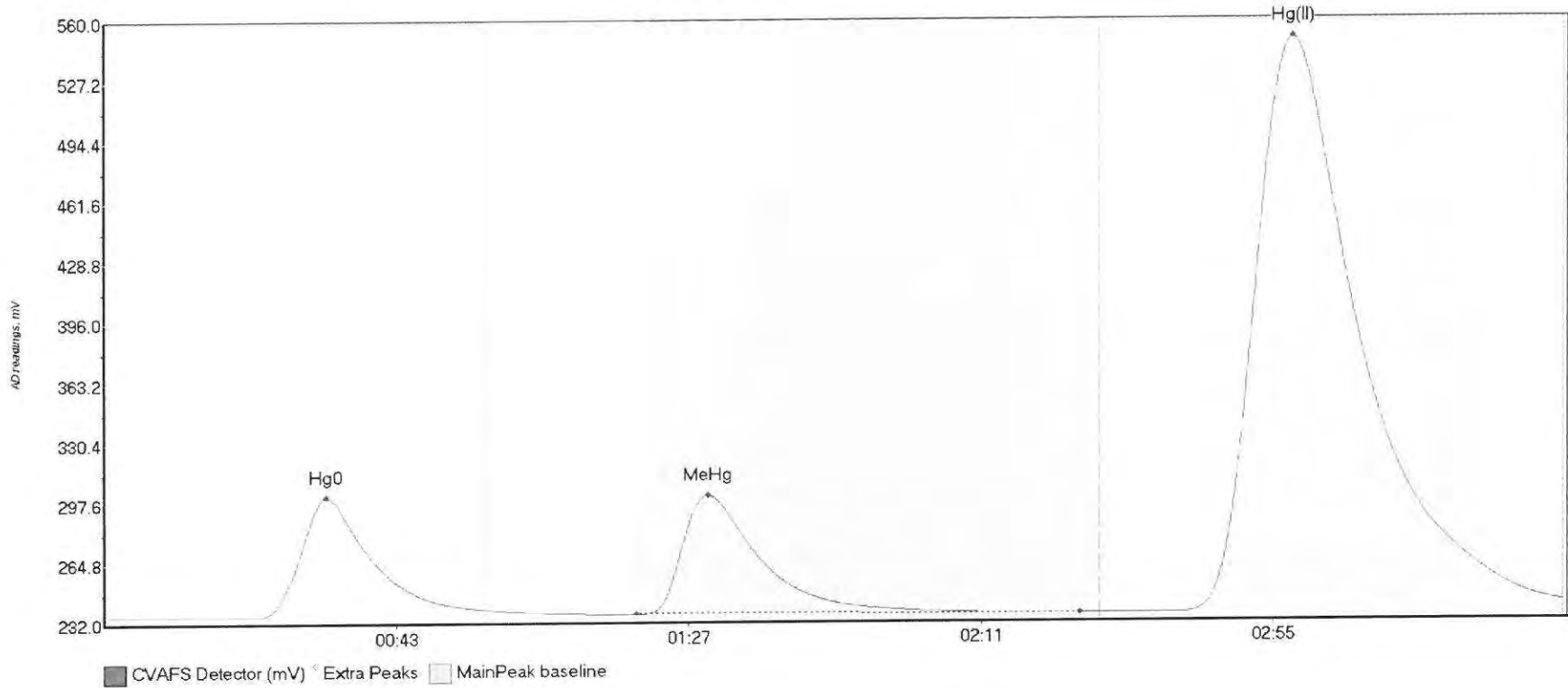
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-08 Hg0	7866.158	16.8	57.5	235.95	239.51	34.2	67.289	CT	235.9407	0.00	2.42	
1608323-08 MeHg	3915.932	80.8	150.0	236.71	236.39	91.2	29.115	CT	235.9407	0.00	2.42	
1608323-08 Hg(I)	20553.142	160.2	219.8	236.37	238.31	179.3	115.715	CT	235.9407	0.00	2.42	

#67: 1608323-09



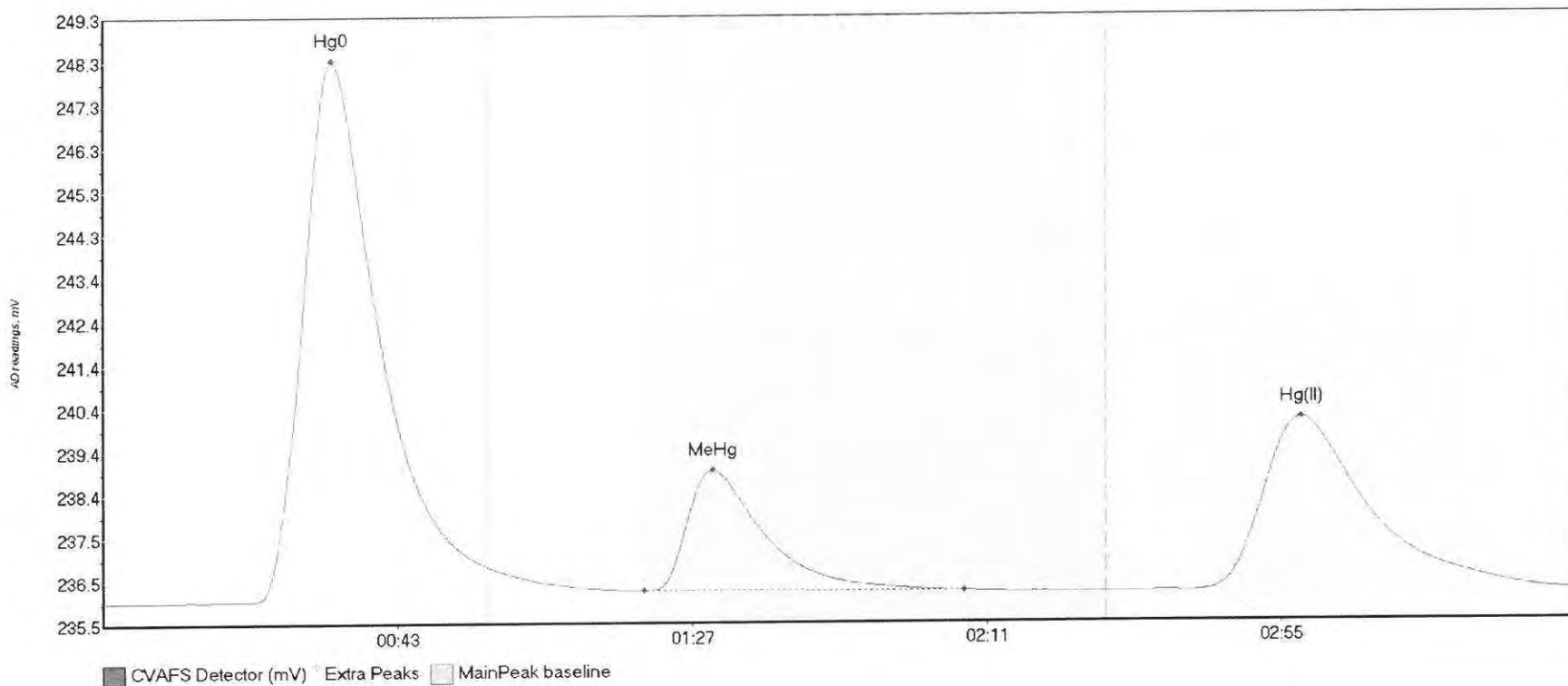
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-09 Hg0	449.791	18.7	55.3	235.95	236.13	31.9	4.811	OK	235.9446	0.00	0.14	
1608323-09 MeHg	46.293	82.1	116.5	236.06	236.06	91.5	0.370	OK	235.9446	0.00	0.14	
1608323-09 Hg(I)	351.631	164.0	219.8	236.05	236.08	179.1	2.014	CT	235.9446	0.00	0.14	

#68: 1608323-10



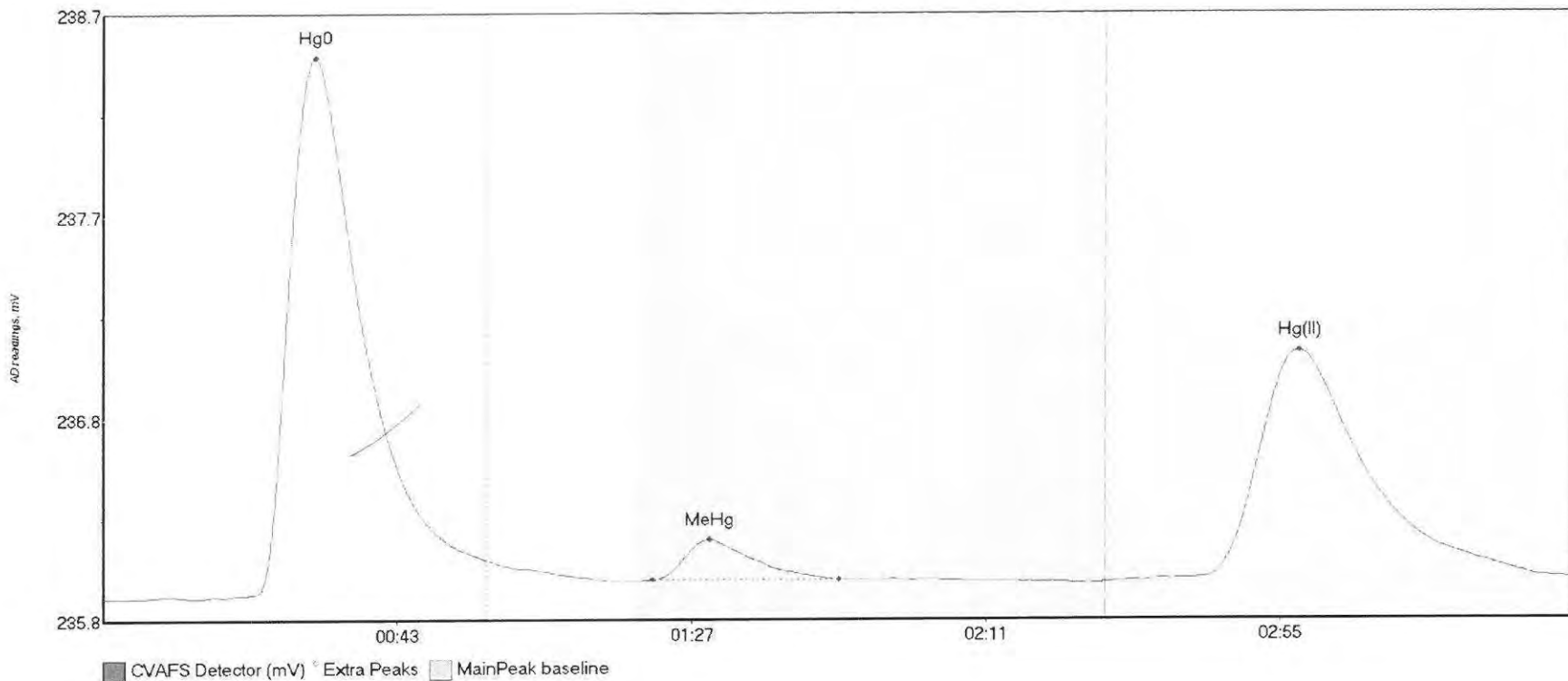
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-10 Hg0	7428.296	15.1	57.5	235.93	239.37	33.6	65.141	CT	235.9327	0.00	6.52	
1608323-10 MeHg	8790.833	80.2	146.9	236.72	236.54	91.0	64.924	OK	235.9327	0.00	6.52	
1608323-10 Hg(I)	56191.788	159.8	219.8	236.51	242.32	179.0	313.584	CT	235.9327	0.00	6.52	

#69: SEQ-CCV5



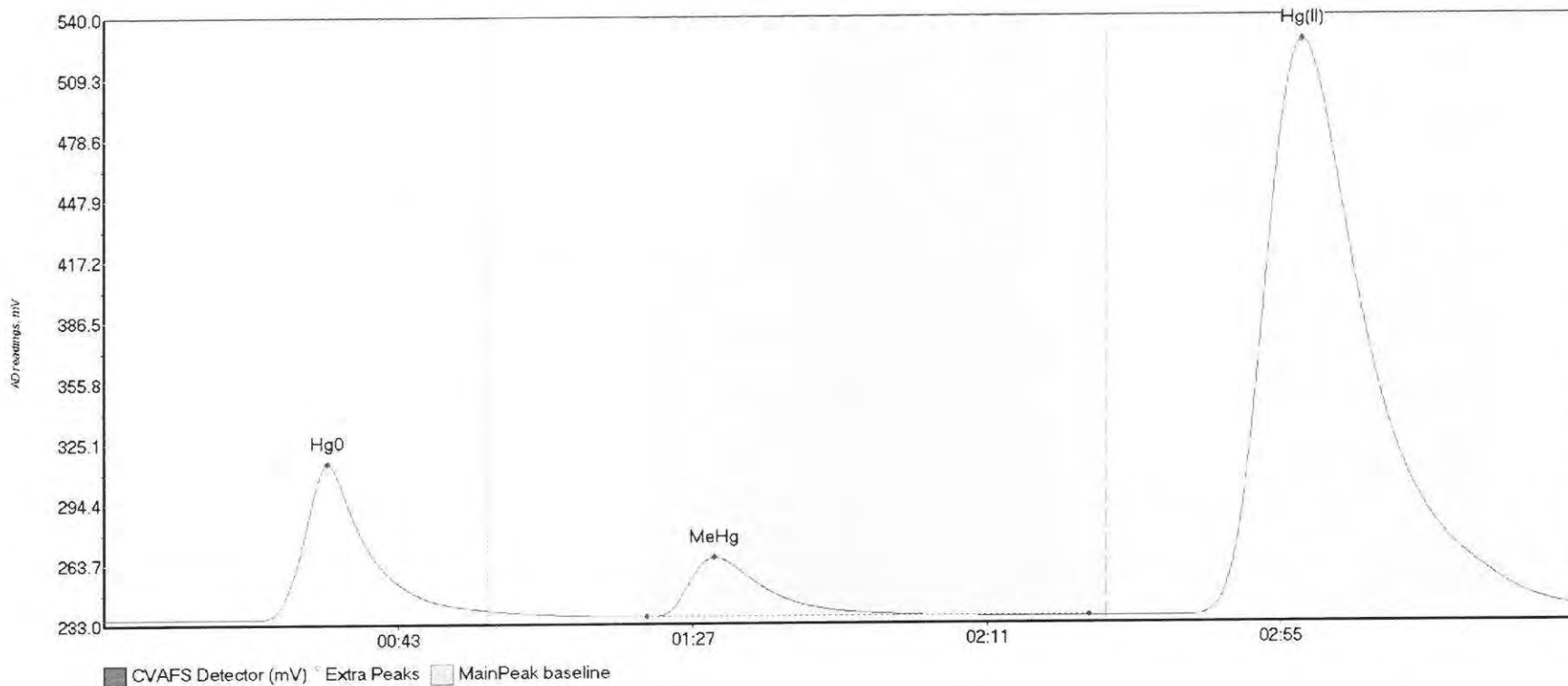
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV5 Hg0	1474.894	4.0	57.5	235.98	236.77	34.1	12.294	CT	235.9823	0.00	0.20	
SEQ-CCV5 MeHg	364.437	80.8	128.6	236.22	236.20	91.1	2.743	OK	235.9823	0.00	0.20	
SEQ-CCV5 Hg(II)	717.527	161.9	219.7	236.17	236.18	179.0	3.933	OK	235.9823	0.00	0.20	

#70: SEQ-CCB5



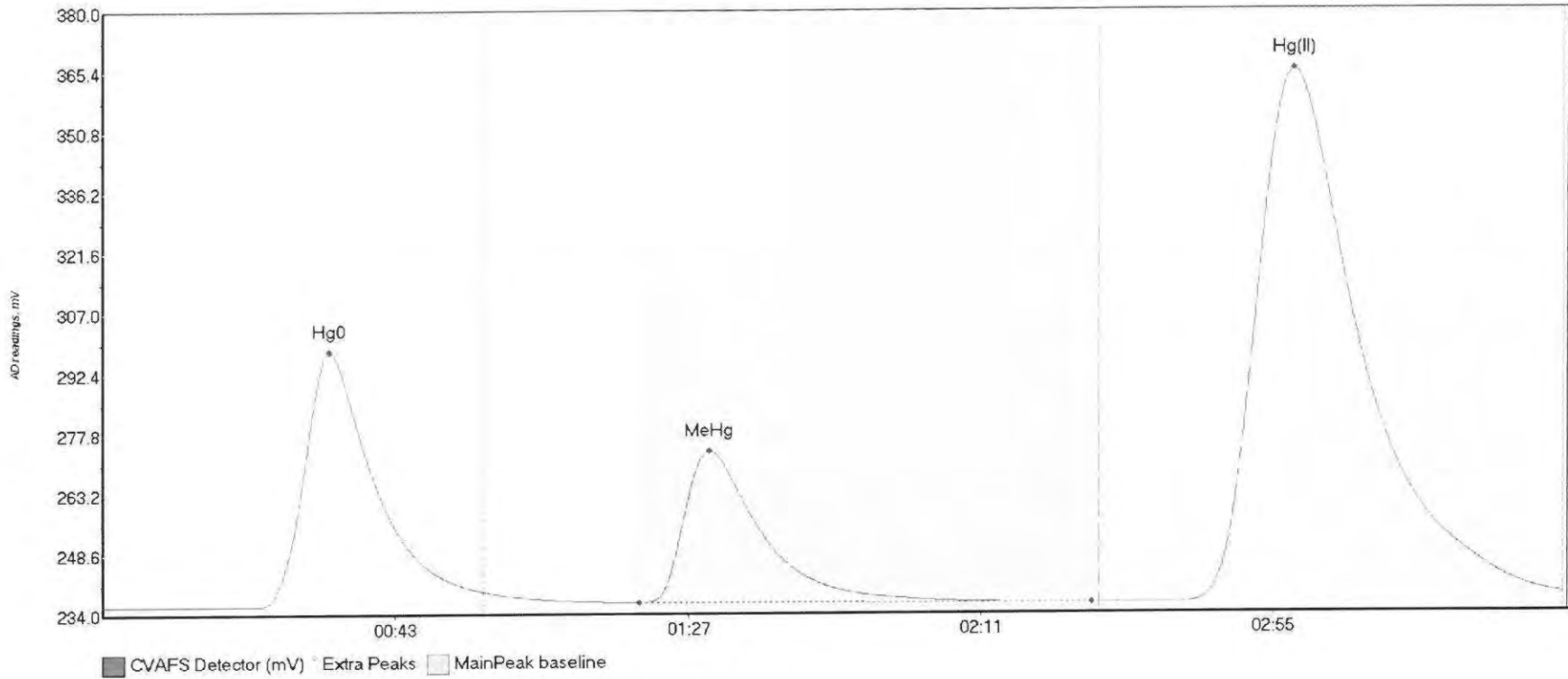
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB5 Hg0	301.071	14.4	57.5	235.94	236.11	31.8	2.532	CT	235.9374	0.00	0.09	
SEQ-CCB5 MeHg	22.371	82.2	110.1	236.02	236.02	90.8	0.191	OK	235.9374	0.00	0.09	
SEQ-CCB5 Hg(II)	198.243	155.5	219.8	236.01	236.03	178.9	1.077	CT	235.9374	0.00	0.09	

#71: 1608323-11



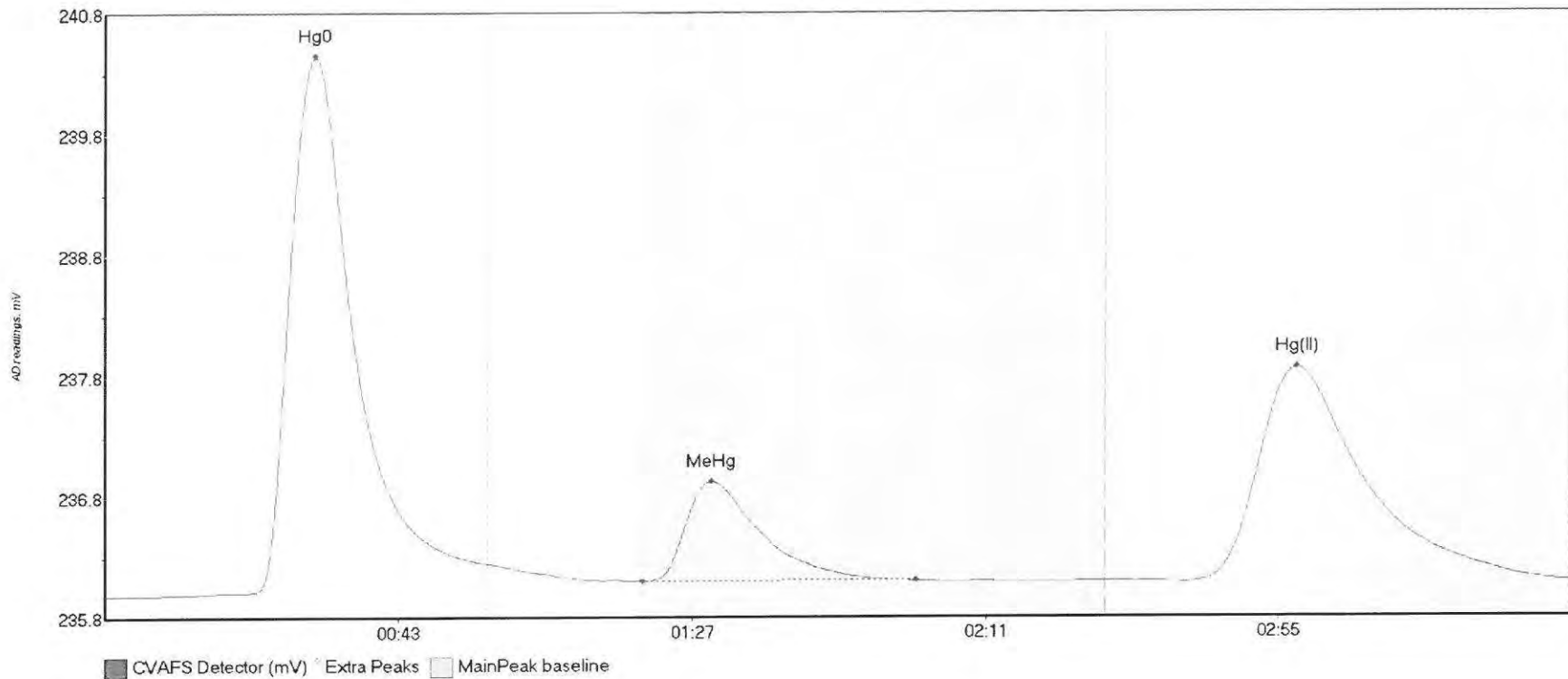
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-11 Hg0	8105.003	20.0	57.5	235.94	239.94	33.5	78.485	CT	235.9374	0.00	5.75	
1608323-11 MeHg	3962.624	81.1	147.3	236.82	236.41	91.3	29.807	OK	235.9374	0.00	5.75	
1608323-11 Hg(I)	51668.032	159.0	219.8	236.37	241.56	179.2	291.183	CT	235.9374	0.00	5.75	

#72: 1608323-12



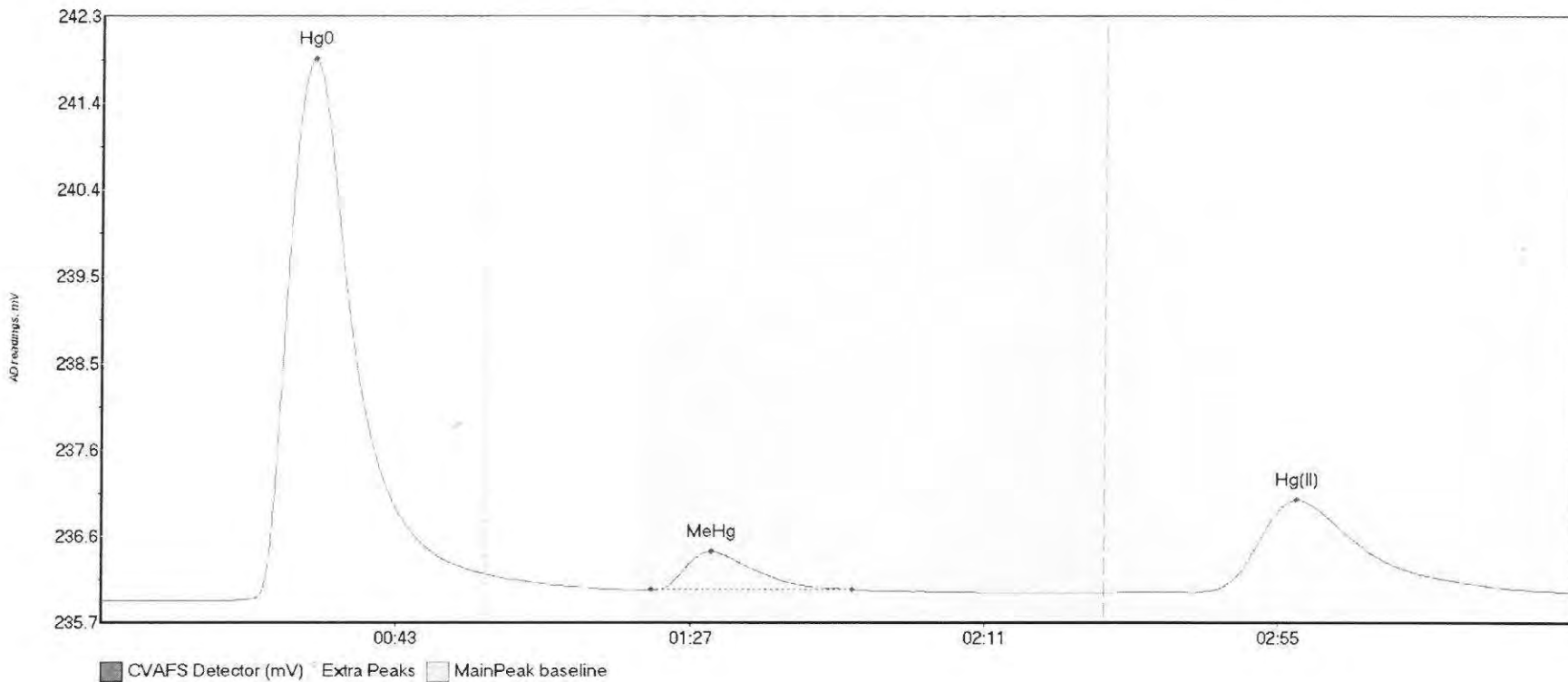
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608323-12 Hg0	6976.746	10.6	57.5	235.99	239.41	34.2	61.678	CT	235.9920	0.00	2.77	
1608323-12 MeHg	4963.864	80.6	148.8	236.76	236.50	91.2	36.771	OK	235.9920	0.00	2.77	
1608323-12 Hg(I	23065.149	160.4	219.8	236.46	238.71	179.2	129.110	CT	235.9920	0.00	2.77	

#73: 1608361-07



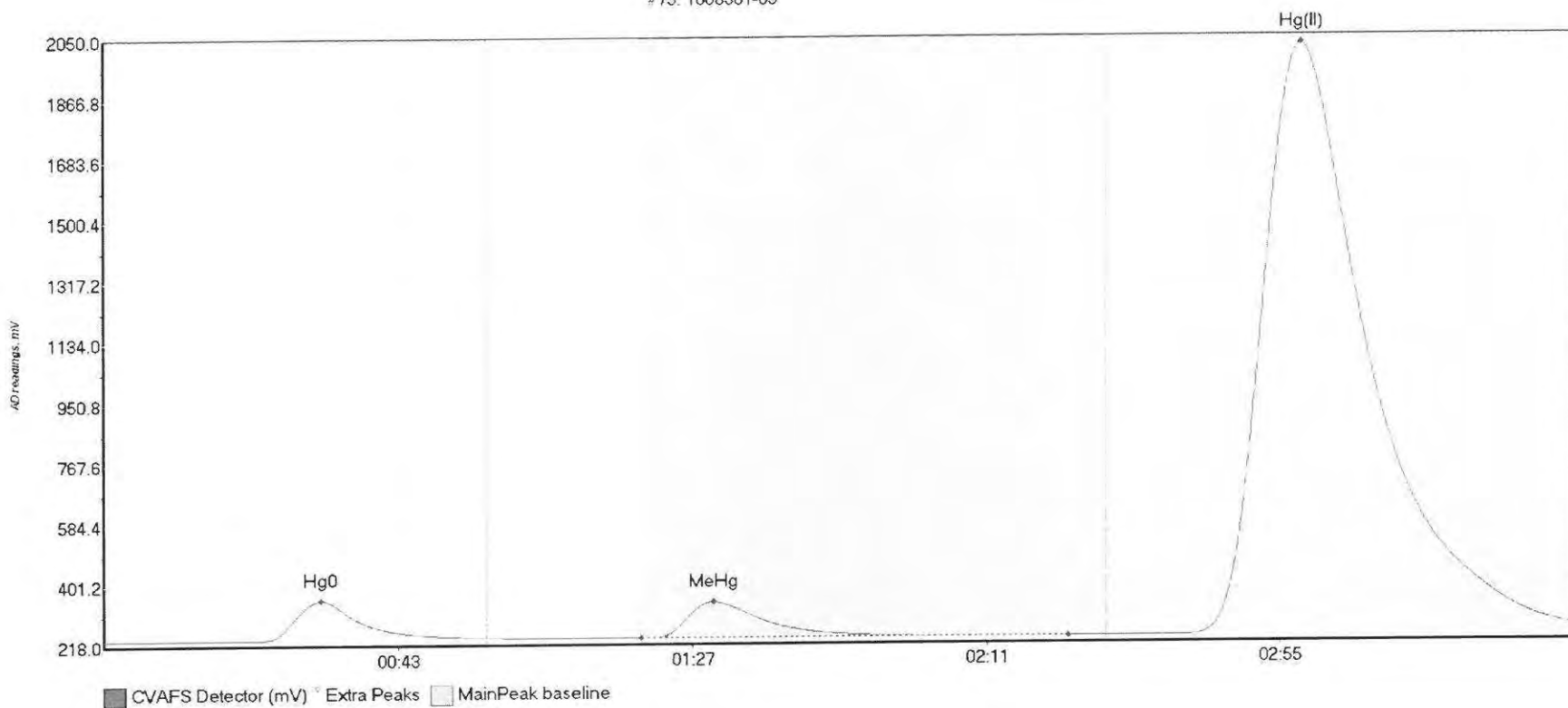
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608361-07 Hg0	464.329	7.5	57.5	235.98	236.24	31.5	4.427	CT	235.9821	0.00	0.12	
1608361-07 MeHg	106.162	80.6	121.6	236.10	236.10	90.9	0.824	OK	235.9821	0.00	0.12	
1608361-07 Hg(I	321.846	162.1	219.8	236.09	236.10	178.7	1.768	CT	235.9821	0.00	0.12	

#74: 1608361-08



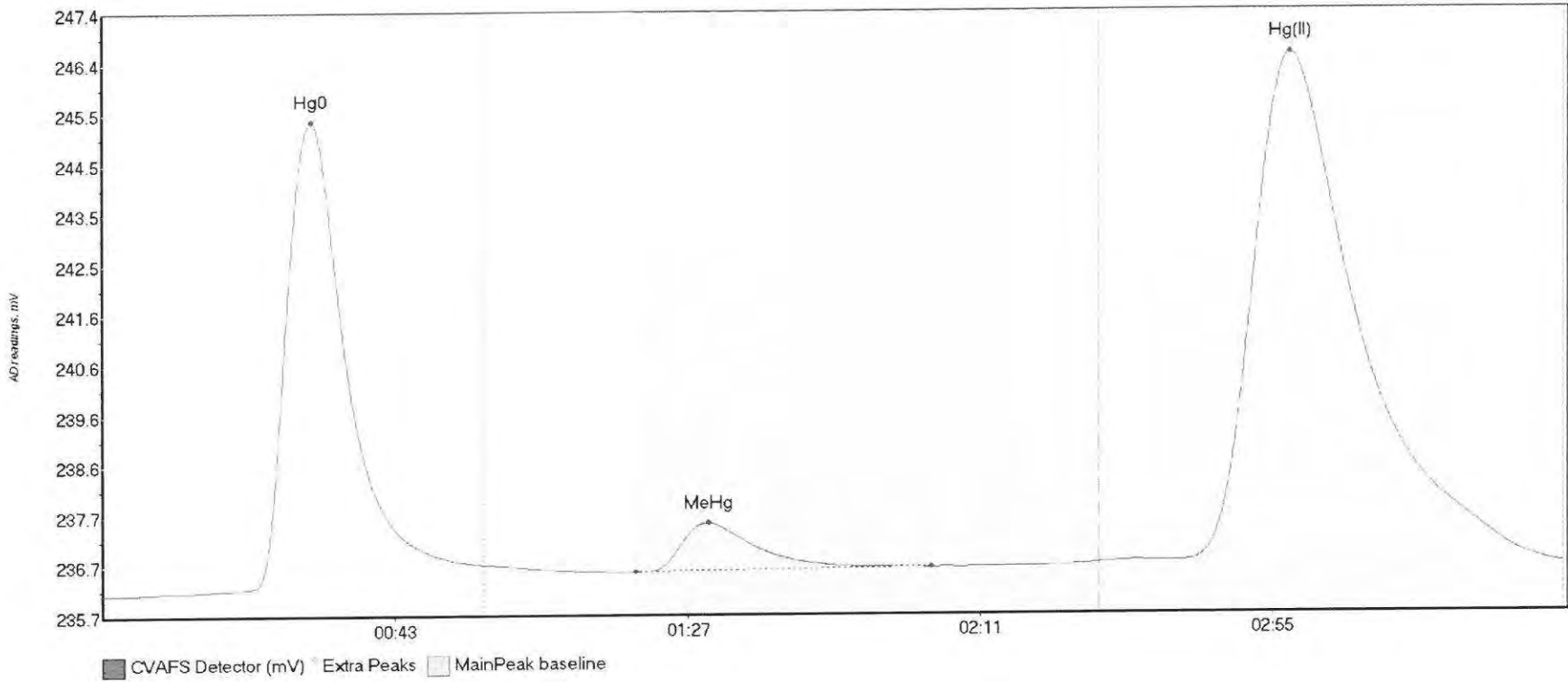
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608361-08 Hg0	654.202	11.9	57.5	235.94	236.23	31.7	5.933	CT	235.9374	0.00	0.10	
1608361-08 MeHg	50.107	82.2	112.3	236.06	236.06	91.1	0.422	OK	235.9374	0.00	0.10	
1608361-08 Hg(I	183.232	163.6	219.6	236.03	236.04	178.8	1.018	OK	235.9374	0.00	0.10	

#75: 1608361-09



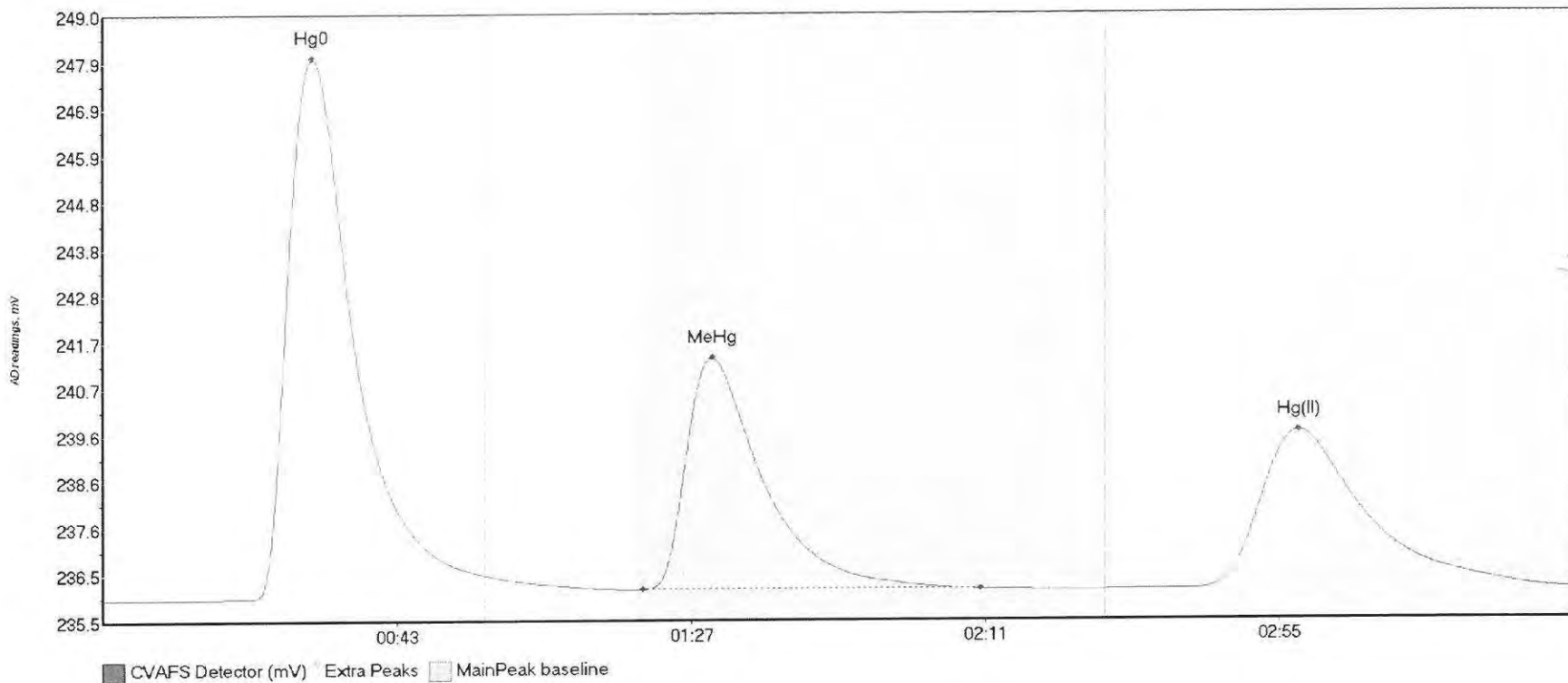
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608361-09 Hg0	12648.206	20.8	57.5	235.94	240.58	32.5	119.404	CT	235.9454	0.00	34.30	
1608361-09 MeHg	14527.100	80.3	144.1	237.42	236.98	91.2	108.146	OK	235.9454	0.00	34.30	
1608361-09 Hg(I)	319255.230	150.1	219.8	237.86	269.49	179.2	1788.000	CT	235.9454	0.00	34.30	

#76: 1608361-10



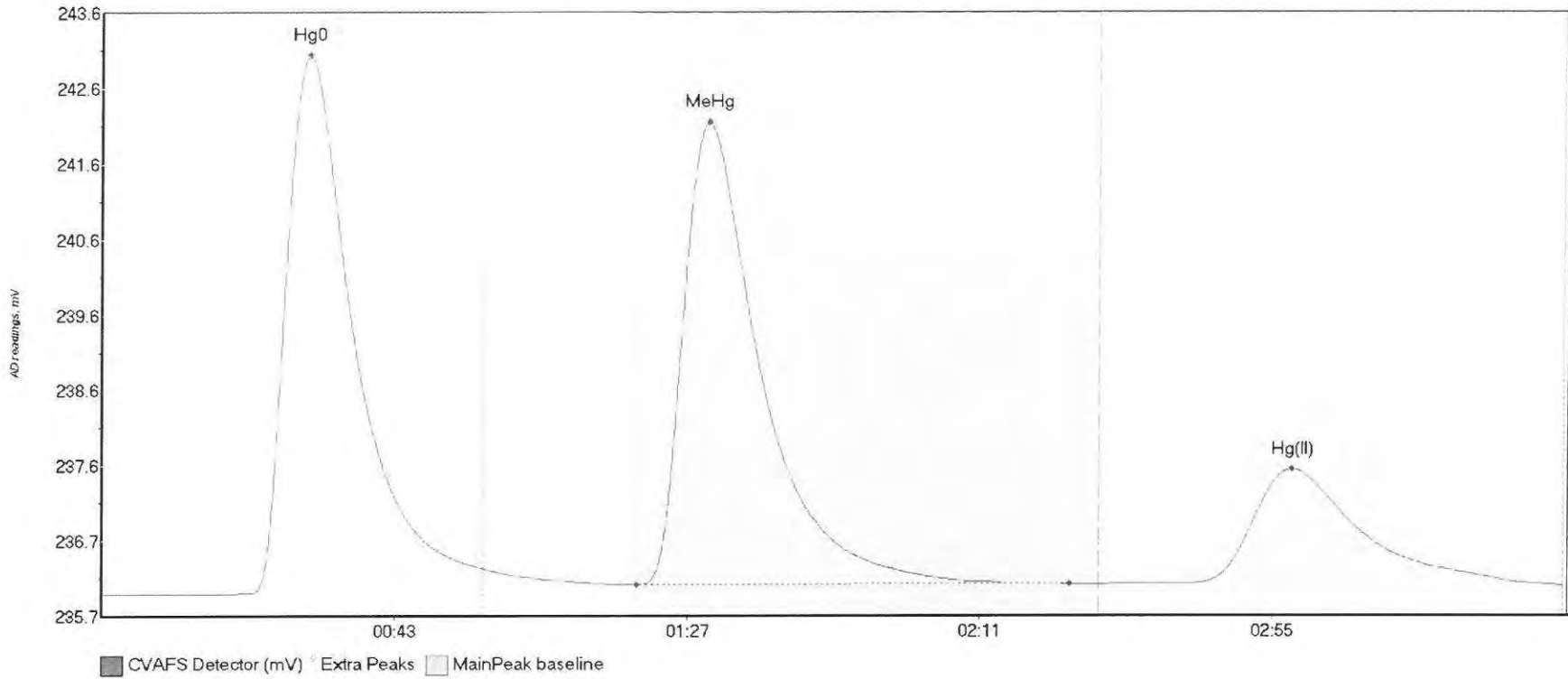
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
1608361-10 Hg0	906.926	2.4	57.5	236.14	236.71	31.4	9.150	CT	236.1406	0.00	0.54	
1608361-10 MeHg	120.452	80.1	124.8	236.56	236.63	91.1	0.949	OK	236.1406	0.00	0.54	
1608361-10 Hg(I)	1817.111	150.1	219.8	236.71	236.68	178.8	9.853	CT	236.1406	0.00	0.54	

#78: F609314-DUP1



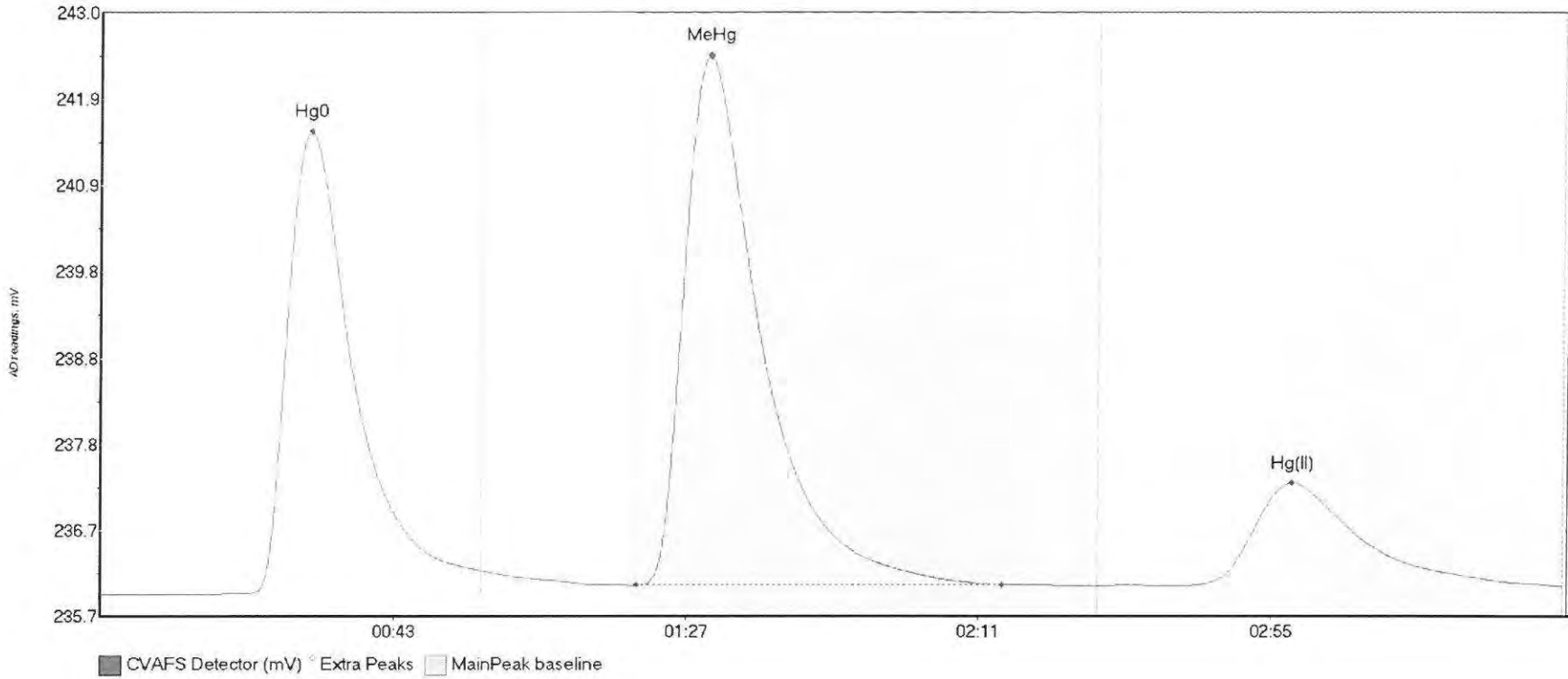
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609314-DUP1 Hg	1311.688	2.6	57.5	235.98	236.50	31.2	12.041	CT	235.9763	0.00	0.19	
F609314-DUP1 Me	684.464	80.7	131.3	236.19	236.18	91.1	5.167	OK	235.9763	0.00	0.19	
F609314-DUP1 Hg	642.884	162.0	219.8	236.17	236.17	178.9	3.531	CT	235.9763	0.00	0.19	

#79: F609314-MS1



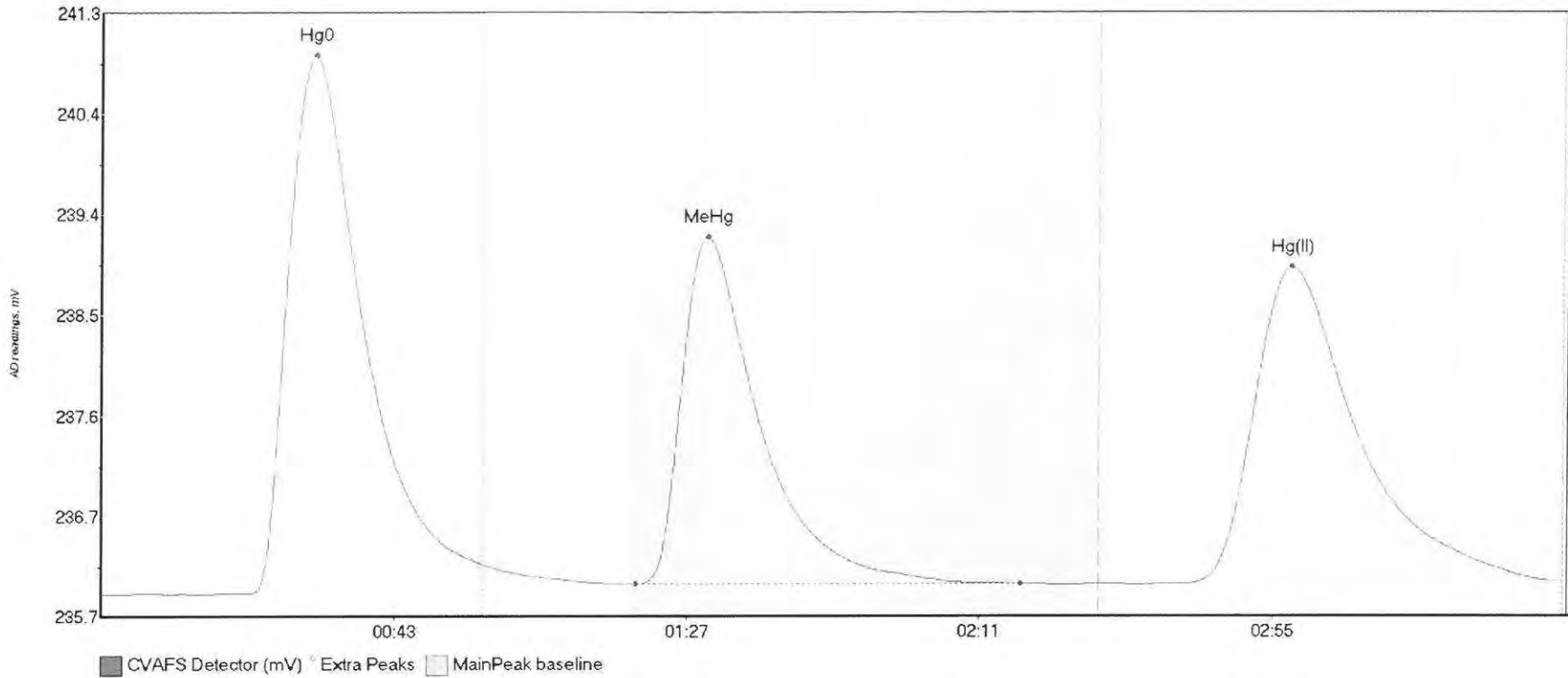
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609314-MS1 Hg0	790.118	18.9	57.5	235.96	236.29	31.2	7.025	CT	235.9615	0.00	0.12	
F609314-MS1 MeH	817.780	80.5	145.5	236.09	236.09	91.1	6.031	OK	235.9615	0.00	0.12	
F609314-MS1 Hg(	280.149	154.3	219.3	236.10	236.08	179.0	1.502	OK	235.9615	0.00	0.12	

#80: F609314-MSD1



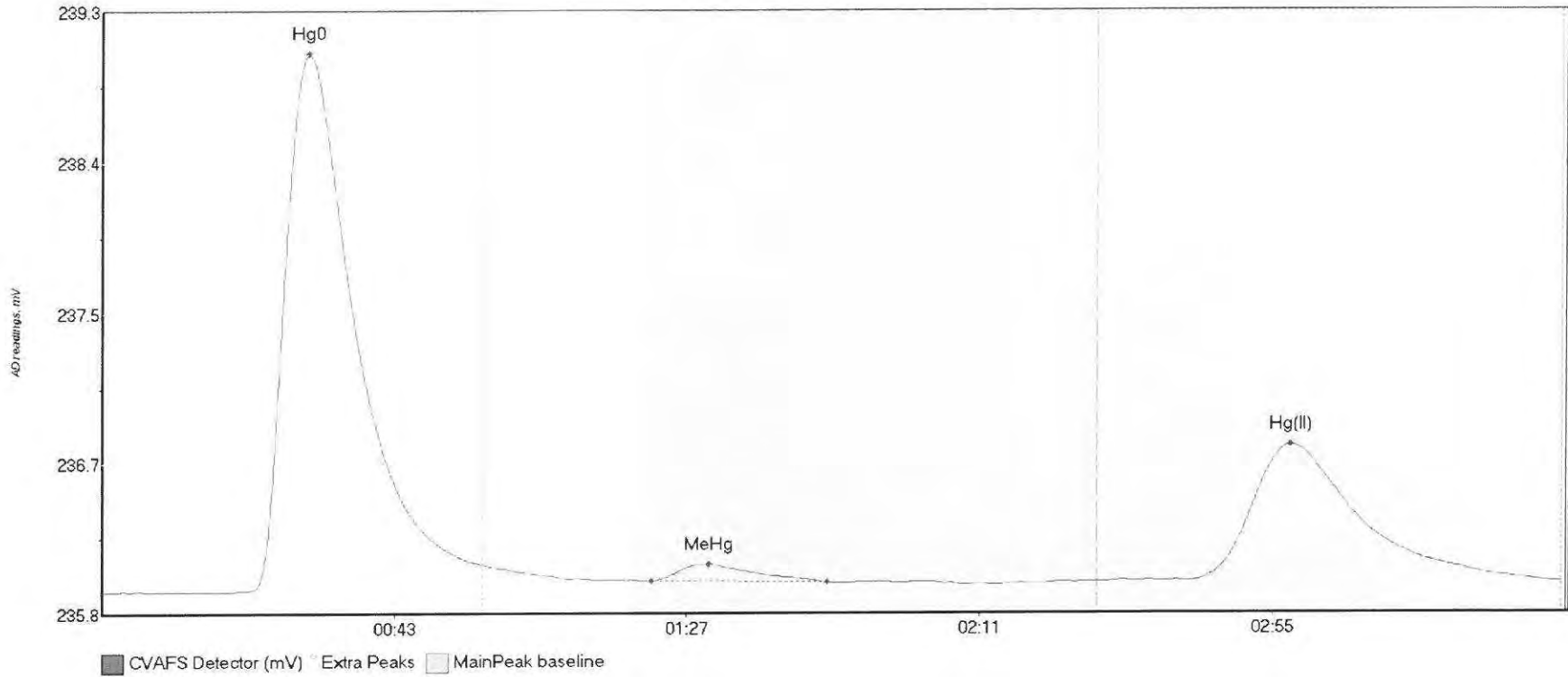
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609314-MSD1 Hg	607.633	16.4	57.5	235.95	236.23	31.4	5.583	CT	235.9412	0.00	0.11	
F609314-MSD1 Me	860.024	80.6	135.6	236.05	236.06	91.4	6.397	OK	235.9412	0.00	0.11	
F609314-MSD1 Hg	225.474	163.6	218.3	236.05	236.05	179.2	1.242	OK	235.9412	0.00	0.11	

#81: SEQ-CCV6



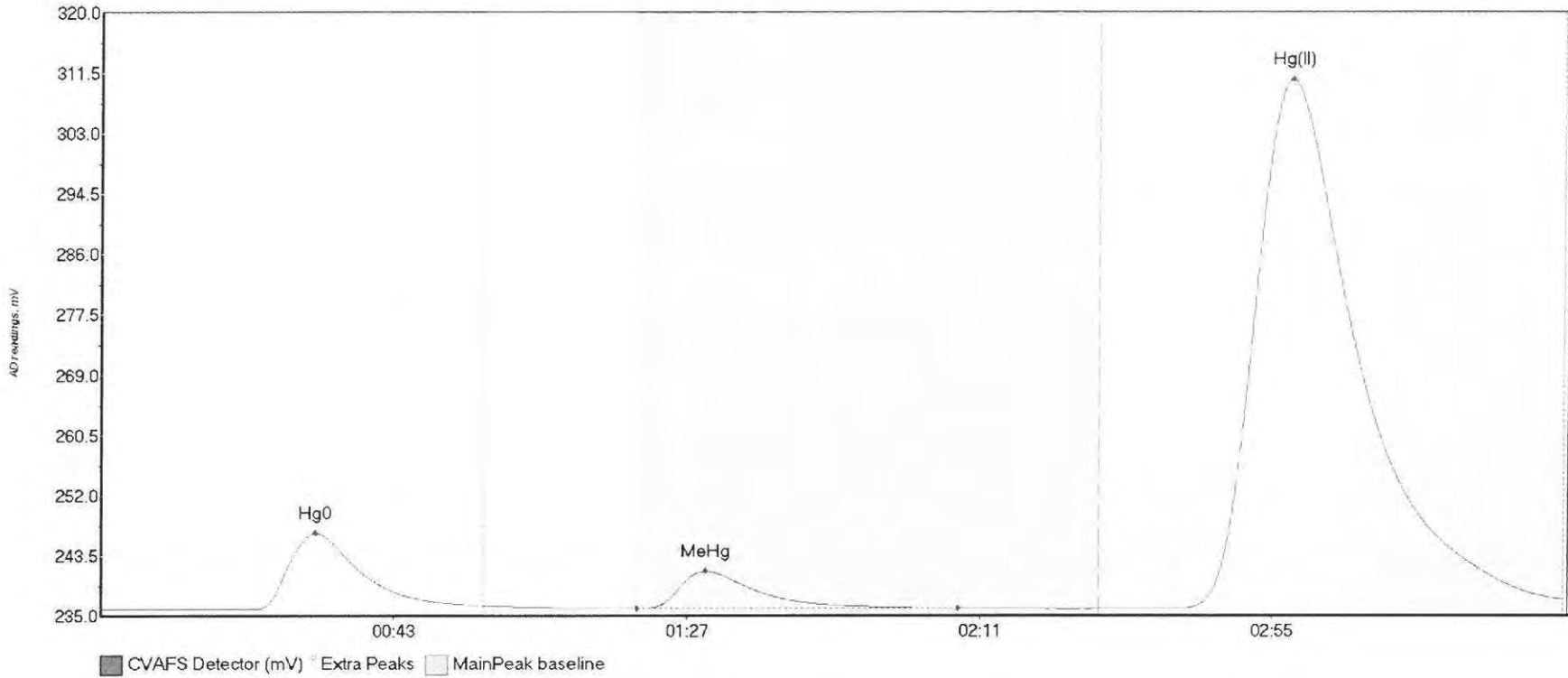
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV6 Hg0	613.426	14.7	57.5	235.92	236.20	32.1	4.988	CT	235.9214	0.00	0.12	
SEQ-CCV6 MeHg	433.077	80.4	138.3	236.02	236.02	91.1	3.213	OK	235.9214	0.00	0.12	
SEQ-CCV6 Hg(II)	527.889	161.5	219.8	236.02	236.04	178.9	2.937	CT	235.9214	0.00	0.12	

#82: SEQ-CCB6



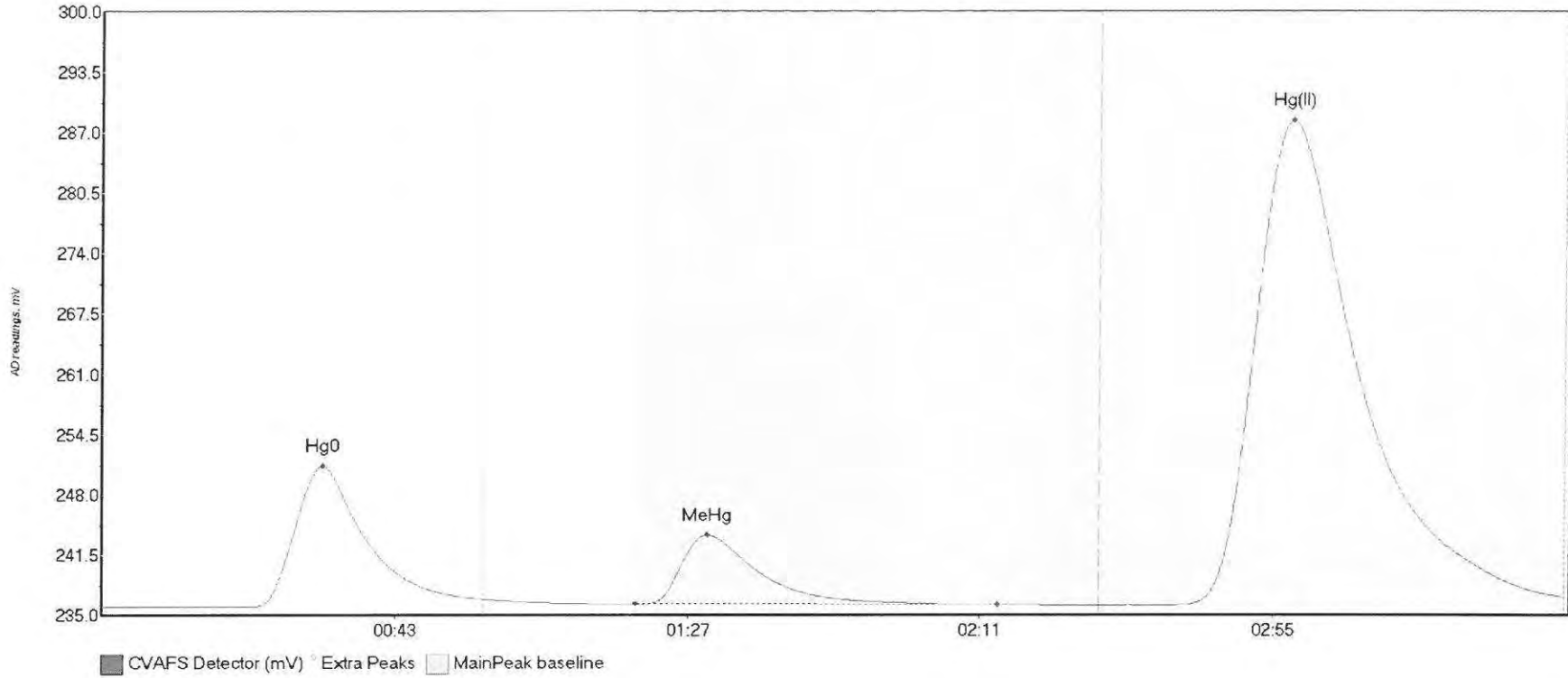
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB6 Hg0	365.319	21.2	57.5	235.92	236.07	31.2	3.126	CT	235.9124	0.00	0.06	
SEQ-CCB6 MeHg	13.377	82.7	109.1	235.97	235.96	91.4	0.099	OK	235.9124	0.00	0.06	
SEQ-CCB6 Hg(II)	146.671	156.3	217.8	235.97	235.97	178.8	0.794	OK	235.9124	0.00	0.06	

#83: F609314-MS2



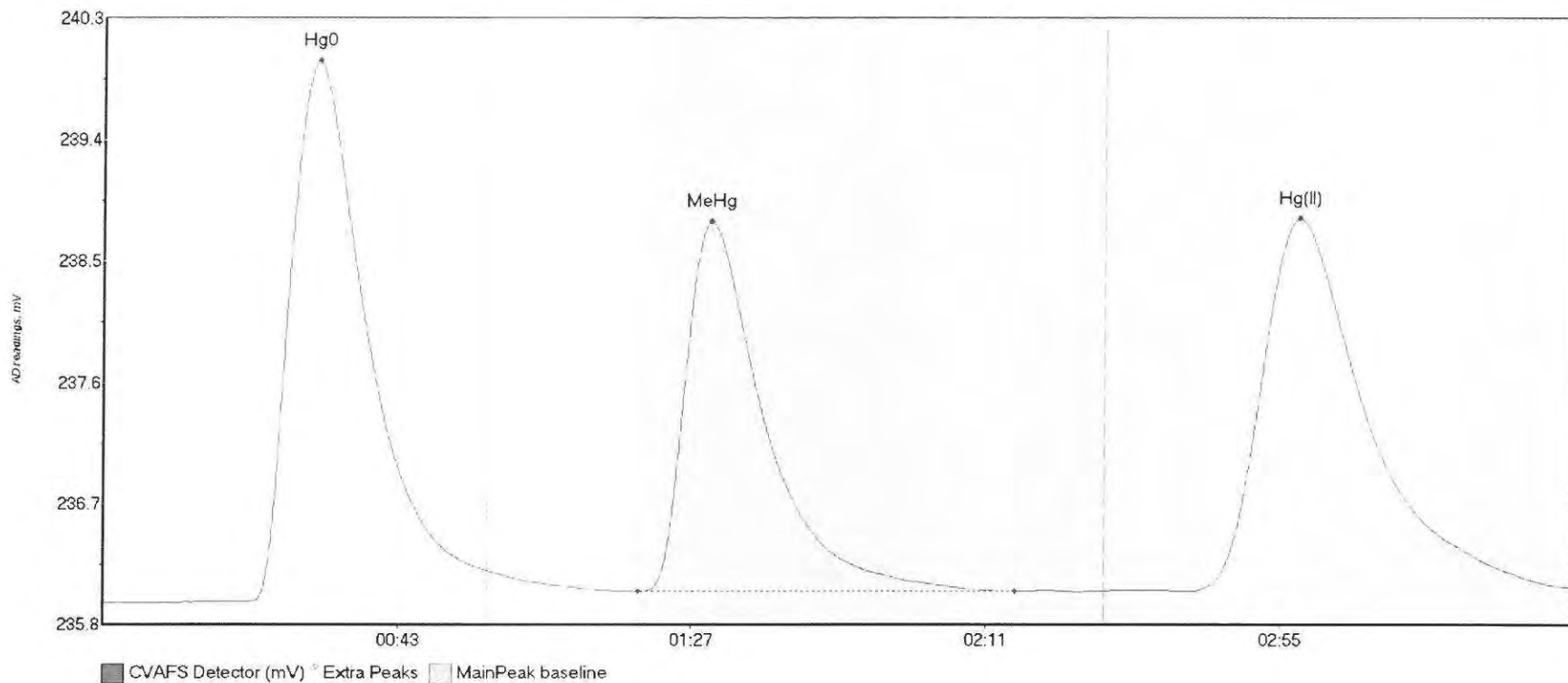
Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609314-MS2 Hg0	1299.152	20.7	57.5	235.89	236.41	32.2	10.766	CT	235.8962	0.00	1.46	
F609314-MS2 MeH	695.067	80.4	128.8	236.05	236.06	90.9	5.237	OK	235.8962	0.00	1.46	
F609314-MS2 Hg(	13237.554	159.7	219.8	236.01	237.32	179.0	74.569	CT	235.8962	0.00	1.46	

#84: F609314-MSD2



Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
F609314-MSD2 Hg	1755.876	17.0	57.5	235.91	236.69	33.1	15.210	CT	235.9114	0.00	1.09	
F609314-MSD2 Me	1004.004	80.1	134.8	236.14	236.10	90.9	7.473	OK	235.9114	0.00	1.09	
F609314-MSD2 Hg	9344.335	160.3	219.8	236.07	236.98	178.9	52.211	CT	235.9114	0.00	1.09	

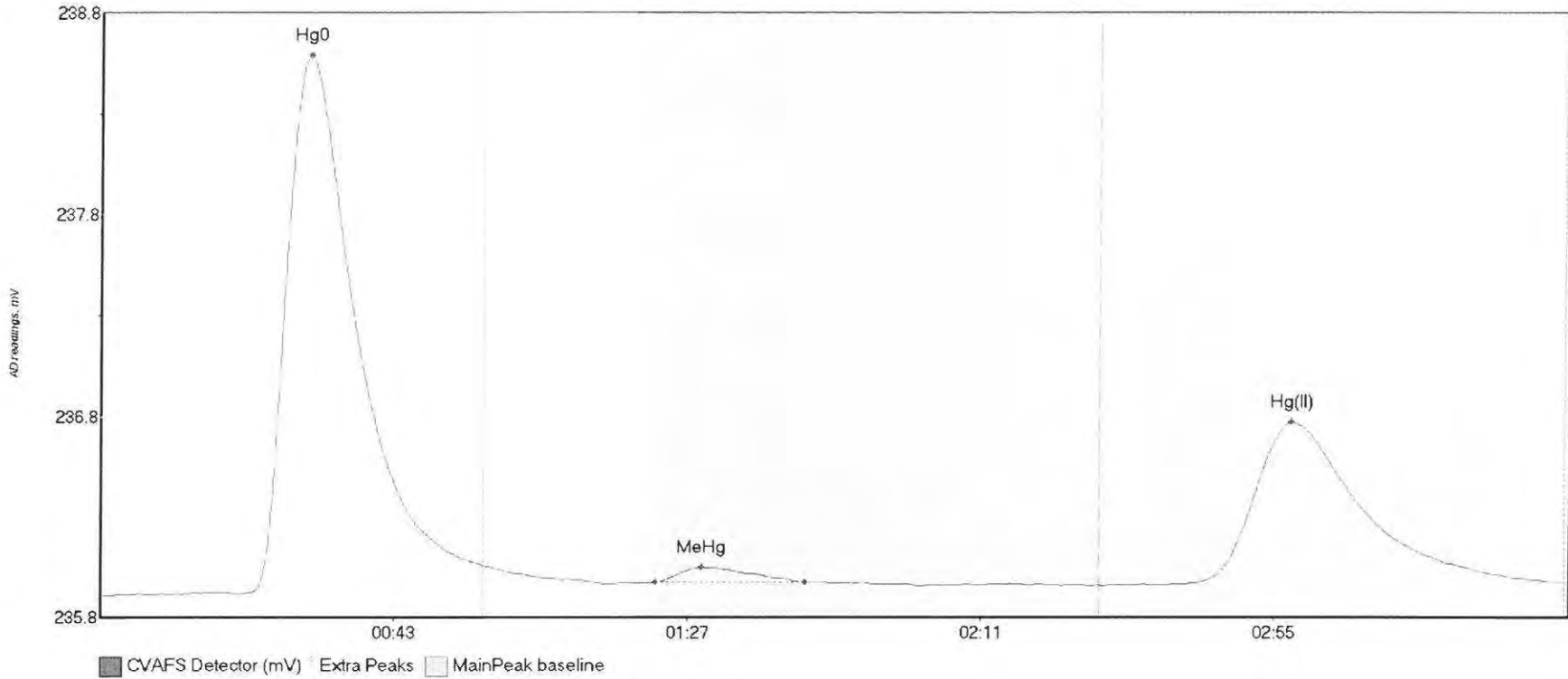
#85: SEQ-CCV7



✓
✓

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCV7 Hg0	500.400	10.5	57.5	235.92	236.16	32.1	4.054	CT	235.9187	0.00	0.12	
SEQ-CCV7 MeHg	377.249	80.1	136.4	236.00	236.01	90.9	2.774	OK	235.9187	0.00	0.12	
SEQ-CCV7 Hg(II)	504.423	163.3	219.8	236.01	236.03	178.8	2.789	CT	235.9187	0.00	0.12	

#86: SEQ-CCB7



✓

Name	Area	Start Time	EndTime	StartValue	EndValue	Peak Max	PeakHeight	Flags	Baseline	BlDev	BlShift	Comment
SEQ-CCB7 Hg0	310.926	2.6	57.5	235.92	236.07	31.4	2.706	CT	235.9177	0.00	0.07	
SEQ-CCB7 MeHg	9.596	83.1	105.8	235.98	235.98	90.2	0.078	OK	235.9177	0.00	0.07	
SEQ-CCB7 Hg(II)	149.774	159.5	219.8	235.97	235.98	178.6	0.819	CT	235.9177	0.00	0.07	

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

Analyst:	DON MORAN	Sequence #:	6I16011, 6I16012
Reviewer:	<i>Barc [Signature]</i> 9/19/16	Dataset ID #:	MMHG27001-160916-1
Date:	9-17-16	WO #:	VARIOUS
Batch #(s):	F609389, F609314	Client(s):	VARIOUS

• 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 checked="" type="checkbox"/> MHg	FGS-045 MeCl Extraction	Sed/Soil
<input type="checkbox"/> DMHg	FGS-098 (None Accredited method)	ALL

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? _____

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: _____

Analyst Initials:

DM

Reviewer Initials:

BC

	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
1. Compare Sample ID with Bench sheet/Sequence/Raw Data (Have all samples been imported?)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
2. Check for transcription errors from Excel spreadsheet (or Prep Bench sheet)/Raw data	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(a) Reviewer: 100% of peak heights checked	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(b) Are there peak height errors?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(c) Error on a sample: Do peak heights, responses, & initial results match corrected data?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(d) Error on a Cal Pt, ICB/CCB, or PB: Has the data been reimported?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(e) Check standards & reagents in sequence & bench sheet for correct usage (i.e. expiries).	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(f) Check and compare masses (review prep bench sheet)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(g) Check and compare initial and final volumes	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(h) Do aliquots and dilutions written on benchsheet match those in Excel?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(i) Is the pH>3.0 for all distilled samples? _____	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
(j) Is the sequence #, analyst, date, and instrument # on the QC page?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(k) Is the analysis status correct? (analyzed/initial review/reviewed)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(l) Original prep bench sheet added to data package?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(m) Benchsheet prep date MUST match actual prep date (check if re-shot vs re-extract)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
3. High QA? WO#(s)/Client(s): _____	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		<input checked="" type="checkbox"/>
4. Client specific QC? (if Yes, refer to Project Notes/LIMS)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		<input checked="" type="checkbox"/>
(a) Have the QC requirements been met for all WO#s? _____	<input type="checkbox"/> YES	<input checked="" 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"/>
6. The calibration curve included a minimum of 5 Standards Comments: _____	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
7. 1st Calibration Standard % Recoveries (65-135%) Comments: _____	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>
8. RSD CF (<= 15%) Comments: _____	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL		<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 #:	6I16011, 6I16012
Reviewer:	0 <i>Don Moran</i> 9/17/16	Dataset ID #:	MMHG27001-160916-1
Date:	9/17/2016	WO #:	VARIOUS
Batch #(s):	F609389, F609314	Client(s):	VARIOUS

Analyst Initials:

DM

Reviewer Initials:

BC

- | Item | Analyst Initials | Reviewer Initials |
|---|---|-------------------------------------|
| 9. ICV % Recoveries 67-133%
Comments: _____ | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL | <input checked="" type="checkbox"/> |
| 10. CCV % Recoveries 67-133%
Comments: SEQ-CCV6 FAILED. HIGH RECOVERY | <input checked="" type="checkbox"/> PASS <input checked="" type="checkbox"/> FAIL | <input checked="" type="checkbox"/> |
| 11. Are the absolute value of the ICB and CCBs < PQL?
Comments: _____ | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL | <input checked="" type="checkbox"/> |
| 12. LCS/LCSD/CRM/BS/BSD % Recoveries (70-130%)
Comments: _____ | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL | <input checked="" type="checkbox"/> |
| 13. LCS/LCSD or BS/BSD RPD (< 25%)
Comments: _____ | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL | <input checked="" type="checkbox"/> |
| 14. Water: Average of Preparation Blanks < 0.045 ng/L and standard deviation of 0.015 ng/L?
Comments: _____ | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 15. Sediment/Tissue: Individually, are the Preparation Blanks < PQL for the matrix?
Comments: _____ | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 16. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done) | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 17. Is the correct 'Source' designated for MD/MS/MSD? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 18. For digested preps: was there a spike witness signature & date on the prep bench sheet? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 19. MD RPD/MT RSD(< 35%)
Comments: F609314-DUP1 FAILED. HIGH RPD | <input checked="" type="checkbox"/> PASS <input checked="" type="checkbox"/> FAIL | <input checked="" type="checkbox"/> |
| 20. Is there one set of MS/MSD per every 10 samples?
Comments: _____ | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL | <input checked="" type="checkbox"/> |
| 21. MS/MSD RPD(< 35%)
Comments: F609314-MSD2 FAILED. HIGH RPD | <input checked="" type="checkbox"/> PASS <input checked="" type="checkbox"/> FAIL | <input checked="" type="checkbox"/> |
| 22. MS (AS) % Recoveries (65-130%)
Comments: _____ | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL | <input checked="" type="checkbox"/> |
| 23. MSD (ASD) % Recoveries (65-130%)
Comments: F609314-MSD2 FAILED. HIGH RECOVERY | <input checked="" type="checkbox"/> PASS <input checked="" type="checkbox"/> FAIL | <input checked="" type="checkbox"/> |
| 24. Spiked 1-5X ambient or 1-5X PQL (whichever is higher) (from EPA 1630) | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 25. Are all samples within instrument calibration range (or at maximum aliquot size)?
Comments: 1608323-07RE1, 08, 10, 11, 12 AND 1608361-09 ALL OFF CURVE. ABOVE CAL5. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| 26. For instrumental dilutions, is the dilution factor in excel correct?
Is the sample volume, diluents, and final volume of the dilution noted on benchsheet? | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> NO <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 27. Dissolved < Total metals (if applicable)
Comments: _____ | <input type="checkbox"/> PASS <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> |
| 28. Effluent < Influent metals (visually confirm if needed)
Comments: _____ | <input type="checkbox"/> PASS <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A | <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 #:	6I16011, 6I16012
Reviewer:	0 <i>BC</i> 9-19-16	Dataset ID #:	MMHG27001-160916-1
Date:	9/17/2016	WO #:	VARIOUS
Batch #(s):	F609389, F609314	Client(s):	VARIOUS

Analyst Initials:

DM

Reviewer Initials:

BC

29. Are re-runs noted with reason?

YES NO N/A

Comments: _____

30. For failing QC (CCV, CCB, PB, BS/BSD, CAL):

YES NO N/A

Was a bubbler and trap test run before the analytical run continued?

Comments: _____

31. Do re-run results compare to initial analysis (< 35% RPD)?

YES NO N/A

Comments: _____

32. Are qualifiers consistent with the data review flowcharts?

YES NO N/A

Comments: _____

33. Have non-reportable samples been imported into LIMS and clicked to non-reportable?

YES NO N/A

Comments: _____

34. Have re-extracts been created for non-reportable samples?

YES NO N/A

35. Narrations in MMO box in LIMS?

Comments: _____

36. Are there any HIGH QA projects within the data?

YES NO

If so, place dataset to the QA office.

37. Does the data set need scanning?

YES N/A

BC 9-19-16

Files located at: \\Cuprum\gen_admin\Quality Assurance\Training Master\DOCs

38. Date of analyst IDOC/CDOC: *on 9-19-16* 7/22/16 IDOC/CDOC within last 12 months?

YES NO

39. Date of analyst's SOP reading: 6/8/16 Current SOP revision?

YES NO

40. Date of LOD: 7/7/16, 4/21/16 LOD within last 3 months (within 12 months for MDN)?

YES NO

N/A

41. Date of LOQ: 7/7/16, 4/21/16 LOQ within last 3 months (within 12 months for MDN)?

YES NO

N/A

42. If MDN samples, date of last MDL study: _____

43. MDL study within last 12 months?

YES NO

N/A

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

Additional Comments: _____

YES NO



Frontier Global Sciences

Analysis Datasheet for Total Mercury

Date of Analysis: September 19, 2016

Analyst: DMZ

Instrument #: Hg2600-2

Units ng/L

LIMS Sequence #: 6120016, 6120007

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-TBL	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 Type	LabNumber	Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
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			Dilution	Analyzed	FileID	RunEnd	Uncorrected Response	Batch ID	No PB Correction?	RESP	InitialResult	FinalResult	InitialUnits	Comments
		Type	LabNumber	✓												
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	

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 (cif)	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


 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 9/20/16
 Analyst Reviewed By Date

[Signature] 9-20-16
 Peer Reviewed By 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

6I20016

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			
6I20016-CCV8	QC	44	1603625		
6I20016-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			
6I20016-CCV9	QC	56	1603625		
6I20016-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
6I20016-CCVA	QC	62	1603625		
6I20016-CCBA	QC	63			
6I20016-CCVB	QC	64	1603625		
6I20016-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	

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PREPARATION BENCH SHEET

F609420

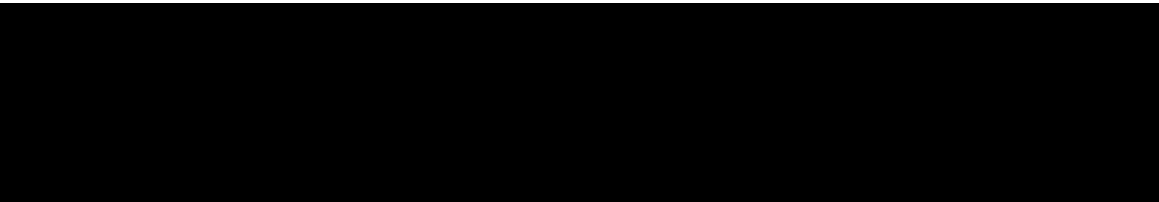
Eurofins Frontier Global Sciences, Inc.

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	-	-	-		

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Date: 9/19/2016

PREPARATION BENCH SHEET

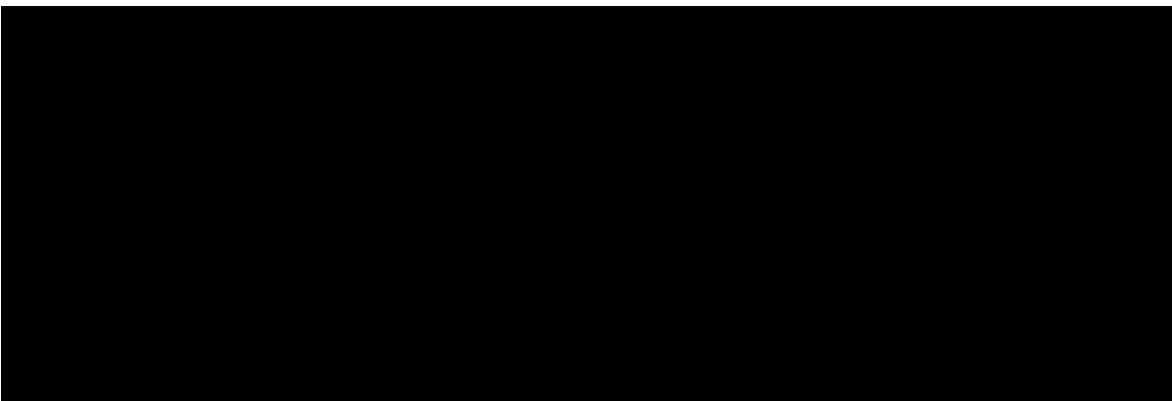
F609427

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	-	-	-		

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Date: 9/8/2016

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

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					1X
F609420-BLK2	Blank	100	101					1X
F609420-BLK3	Blank	100	101					1X
F609420-BS1	LCS	95 100	50.5 101	1004715	100			1X
F609420-BSD1	LCS Dup	50 100	50.5 101	1004715	100			1X
F609420-DUP1	Duplicate 1008742-01	100	101					1X
F609420-MS1	Matrix Spike 1008742-05	100	101	1005272	25			1X
F609420-MS2	Matrix Spike 1008081-03	100	101	1005272	100			1X
F609420-MSD1	Matrix Spike Dup 1008742-05	100	101	1005272	25			1X
F609420-MSD2	Matrix Spike Dup 1008081-03	100	101	1005272	100			1X

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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PREPARATION BENCH SHEET

2600-2
9/19/16 DM

F609420

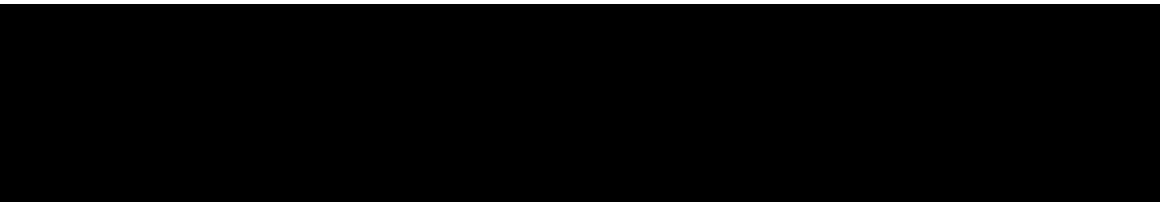
Eurofins Frontier Global Sciences, Inc.

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: LM 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. - LM 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

1602941

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

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Date: 9/19/2016

PREPARATION BENCH SHEET

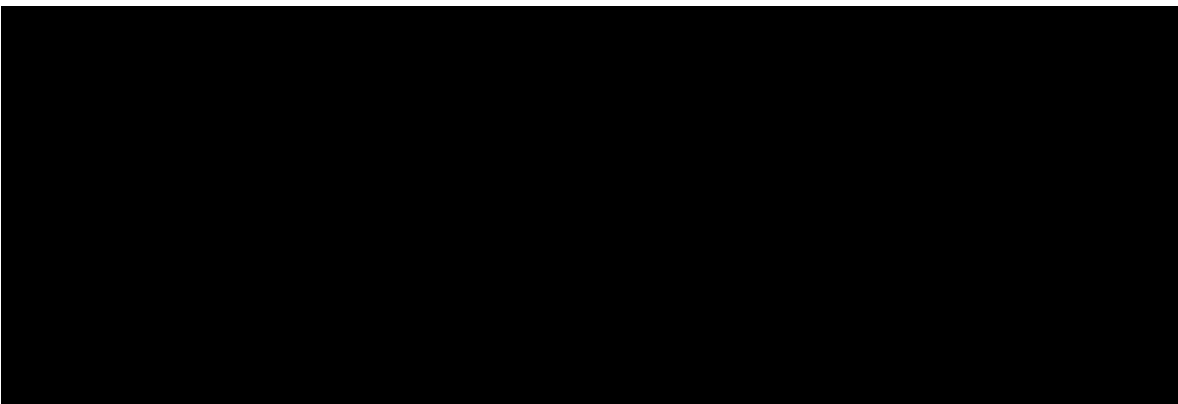
F609427

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: _____

REVIEWED
 [Signature]

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			
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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: 9/15/16 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 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

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

2600-2
9/19/16 DM

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	-	-	-		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

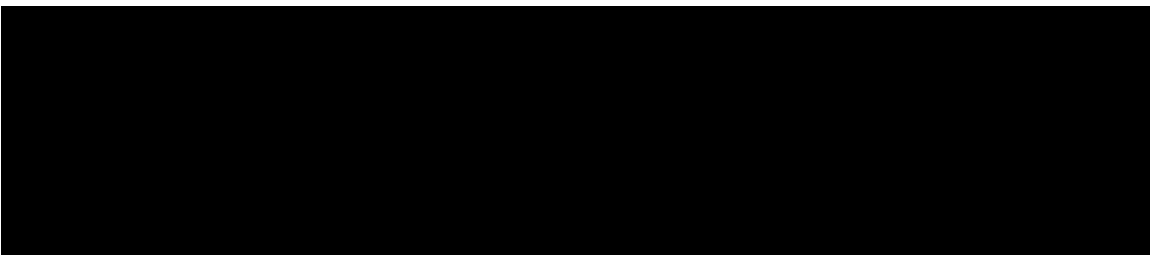
Eurofins Frontier Global Sciences, Inc.

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 9/16/16 Dispenser #: 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 b8
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) #: 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 x MDL for WI? PASS FAIL
 Comments: _____
17. Have Total Solids been applied? (If NO, please ensure that they are done or nearly done) YES NO N/A
18. Is the correct 'Source' designated for MD/MS/MSD? YES NO
19. For digested preps: was there a spike witness signature & date on the prep bench sheet? YES NO N/A

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

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

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.



www.alphalab.com



Lab Number: L1623546

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: L1623546

Project Manager: Elizabeth Porta

Review Date: 08/01/2016

Project Number: 3616166052

Project Name: PENOBSCOT RIVER ESTUARY

Received: 07/29/2016 10:18

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

Received by: KB

Samples Delivered by: FEDEX

Call Tracker #

Bill Of Laden Yes

Trackingnum 804544056908

Coc Present Present

Container Status Intact

Sample IDs rec'd in MF at 3.5c (9849)

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 N/A

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	2.5 - IR Gun	No	No

LIMS Chain of Custody



ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Aug 17 2016, 02:08 pm

Login Number: L1623546

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

Sample # Client ID Received: 29JUL16 Due Date: 19AUG16
 Mat PR Collected Container

L1623546-01 W-61-HIGH_072716_SE 3 S0 27JUL16 09:20 1-Glass-A.06

| DPKG-FULL Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS,DPKG-FULL

L1623546-02 W-61-INTERTIDAL-072 3 S0 27JUL16 10:00 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-03 W-61-LOW_072716_SED 3 S0 27JUL16 09:40 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-04 W-61-MID_072716_SED 3 S0 27JUL16 09:30 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-05 W-63-HIGH_072116_SE 3 S0 21JUL16 11:10 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-06 W-63-HIGH_072116_SE 3 S0 21JUL16 11:10 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-07 W-63-INTERTIDAL_072 3 S0 26JUL16 13:00 1-Glass-A.06

| Package Due Date: 08/19/16

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Aug 17 2016, 02:08 pm

Login Number: L1623546

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

Sample # Client ID Received: 29JUL16 Due Date: 19AUG16
 Mat PR Collected Container

A2-TOC-LK-2REPS,A2-TS

L1623546-08 W-63-LOW_072616_SED 3 S0 26JUL16 12:50 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-09 W-63-MID_072616_SED 3 S0 26JUL16 12:40 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-10 W-65-HIGH_072516_SE 3 S0 25JUL16 15:30 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-11 W-65-INTERTIDAL_072 3 S0 25JUL16 16:10 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-12 W-65-LOW_072516_SED 3 S0 25JUL16 15:50 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-13 W-65-MID_072516_SED 3 S0 25JUL16 15:40 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Aug 17 2016, 02:08 pm

Login Number: L1623546

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

Sample # Client ID Received: 29JUL16 Due Date: 19AUG16
 Mat PR Collected Container

L1623546-14 ES-15_072716_SED_03 3 S0 27JUL16 14:50 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-15 SVE-01_072716_SED_0 3 S0 27JUL16 10:50 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-16 OL-01_072716_SED_03 3 S0 27JUL16 14:30 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-17 W17-N_072116_SED_03 3 S0 21JUL16 10:20 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-18 ADD-01_072116_SED_0 3 S0 21JUL16 14:15 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-19 ADD-02_072216_SED_0 3 S0 22JUL16 16:44 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

L1623546-20 W-17-LOW_072616_SED 3 S0 26JUL16 14:45 1-Glass-A.06

| Package Due Date: 08/19/16

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Aug 17 2016, 02:08 pm

Login Number: L1623546

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

Sample #	Client ID	Received: 29JUL16 Mat PR Collected	Due Date: 19AUG16 Container
----------	-----------	---------------------------------------	--------------------------------

A2-TOC-LK-2REPS,A2-TS

L1623546-21 BO-04-02_072616_SED 3 S0 26JUL16 10:15 1-Glass-A.06

L1623546-21 MS L1623546-21 MSD Package Due Date: 08/19/16

A2-MS/MSD,A2-TOC-LK-2REPS,A2-TS

L1623546-22 BO-04-02_072616_SED 3 S0 26JUL16 10:15 1-Glass-A.06

| Package Due Date: 08/19/16

A2-TOC-LK-2REPS,A2-TS

Container Tracking



ALPHA ANALYTICAL LABORATORIES
Container Tracking Report

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1623546-01A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-01A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-01A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-01A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-02A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-02A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-02A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-02A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-03A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-03A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-03A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-03A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-04A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-04A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-04A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-04A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-05A	Glass-A.06	INTACT	08-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Ashley Roulx	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Ashley Roulx
L1623546-05A	Glass-A.06	INTACT	08-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-FRZ1-Z3	Ashley Roulx	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Ashley Roulx
L1623546-05A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-05A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-05A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-05A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-06A	Glass-A.06	INTACT	08-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Ashley Roulx	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Ashley Roulx
L1623546-06A	Glass-A.06	INTACT	08-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-FRZ1-Z3	Ashley Roulx	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Ashley Roulx
L1623546-06A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1623546-06A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-06A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-06A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-07A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-07A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-07A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-07A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-08A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-08A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-08A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-08A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-09A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-09A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-09A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-09A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-10A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-10A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-10A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-10A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-11A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-11A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-11A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-11A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-12A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-12A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1623546-12A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-12A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-13A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-13A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-13A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-13A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-14A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-14A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-14A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-14A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-15A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-15A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-15A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-15A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-16A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-16A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-16A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-16A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-17A	Glass-A.06	INTACT	08-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Ashley Roulx	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Ashley Roulx
L1623546-17A	Glass-A.06	INTACT	08-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-FRZ1-Z3	Ashley Roulx	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Ashley Roulx
L1623546-17A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-17A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-17A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-17A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-18A	Glass-A.06	INTACT	08-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Ashley Roulx	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Ashley Roulx

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1623546-18A	Glass-A.06	INTACT	08-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-FRZ1-Z3	Ashley Roulx	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Ashley Roulx
L1623546-18A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-18A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-18A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-18A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-19A	Glass-A.06	INTACT	08-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Ashley Roulx	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Ashley Roulx
L1623546-19A	Glass-A.06	INTACT	08-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-FRZ1-Z3	Ashley Roulx	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Ashley Roulx
L1623546-19A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-19A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-19A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-19A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-20A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-20A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-20A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-20A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-21A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-21A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-21A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-21A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Brett Read	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Brett Read
L1623546-22A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-Z3	A2-CUSTODY-FRZ1-Z3	Sonal Patel
L1623546-22A	Glass-A.06	INTACT	01-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-NOAA4	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1623546-22A	Glass-A.06	INTACT	29-JUL-16	CUSTODY	A2-CUSTODY-REFRIDGE	Kim L. Bailey	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Kim L. Bailey
L1623546-22A	Glass-A.06	INTACT	29-JUL-16	A2-LOGIN	A2-LOGIN	Kim L. Bailey	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Kim L. Bailey

Communications

Call Tracker Report

Call # 86509

Call #: 86509
Call Date: 08/01/16 16:39
Status: NEED
Date: 08/01/16 16:39
Operator: LPORTA
Type: Live

Contact: Denise King
Company: AMEC Foster Wheeler E & I, Inc.
Acct #: AMEC-ME
Project #: 3616166052
Client Proj: PENOBSCOT RIVER ESTUARY
Login #: L1623546

Call Details

King, Denise
4:31 PM (7 minutes ago)

to me
Could we add MS/MD to sample BO-04-02_072616_SED_03?

Thanks,

Denise King
Senior Environmental Chemist, Environment & Infrastructure, Amec Foster Wheeler
T +1 978 392 5339
M +1 508 789 1738
Denise.king@amecfw.com

Chain of Custody



L1623546

23546

	<i>Samp #</i>	<i>Sample Date</i>	<i>Sample Time</i>	<i>Field Sample ID</i>	<i>QC Code</i>	<i>Qty Total</i>	<i>Qty Each</i>	<i>Bottle Size and Material</i>	<i>Preservative</i>	<i>Media Method</i>	<i>Fraction</i>
.01	1563	7/27/2016	9:20	W-61-High_072716_SED_03		1					
					FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
.02	1564	7/27/2016	10:00	W-61-Intertidal_072716_SED_03		1					
					FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
.03	1565	7/27/2016	9:40	W-61-Low_072716_SED_03		1					
					FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
.04	1566	7/27/2016	9:30	W-61-Mid_072716_SED_03		1					
					FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
.05	1567	7/21/2016	11:10	W-63-High_072116_SED_03		1					
					FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
.06	1568	7/21/2016	11:10	W-63-High_072116_SED_03_DUP		1					
					FD		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
.07	1569	7/26/2016	13:00	W-63-Intertidal_072616_SED_03		1					
					FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
.08	1570	7/26/2016	12:50	W-63-Low_072616_SED_03		1					
					FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
.09	1571	7/26/2016	12:40	W-63-Mid_072616_SED_03		1					
					FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
.10	1572	7/25/2016	15:30	W-65-High_072516_SED_03		1					
					FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
.11	1573	7/25/2016	16:10	W-65-Intertidal_072516_SED_03		1					
					FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T

Thursday, July 28, 2016

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L1623546

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<i>Samp #</i>	<i>Sample Date</i>	<i>Sample Time</i>	<i>Field Sample ID</i>	<i>QC Code</i>	<i>Qty Total</i>	<i>Qty Each</i>	<i>Bottle Size and Material</i>	<i>Preservative</i>	<i>Media Method</i>	<i>Fraction</i>
1574	7/25/2016	15:50	W-65-Low_072516_SED_03		1					
				FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
1575	7/25/2016	15:40	W-65-Mid_072516_SED_03		1					
				FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
1577	7/27/2016	14:50	ES-15_072716_SED_03		1					
				FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
1583	7/27/2016	10:50	SVE-01_072716_SED_03		1					
				FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
1585	7/27/2016	14:30	OL-01_072716_SED_03		1					
				FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
1587	7/21/2016	10:20	W17-N_072116_SED_03		1					
				FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
1588	7/21/2016	14:15	ADD-01_072116_SED_03		1					
				FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
1602	7/22/2016	16:44	ADD-02_072216_SED_03		1					
				FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
1603	7/26/2016	14:45	W-17-Low_072616_SED_03_DUP		1					
				FD		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
1607	7/26/2016	10:15	BO-04-02_072616_SED_03		1					
				FS		1 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T
1610	7/26/2016	10:15	BO-04-02_072616_SED_03_DUP		0					
				FD		0 2	oz Amber Glass	4 deg C	SED TOC (Lloyd-Kahn)	T

Thursday, July 28, 2016

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Samp #	Sample Date	Sample Time	Field Sample ID	QC Code	Qty Total	Qty Each	Bottle Size and Material	Preservative	Media Method	Fraction
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QC Codes: FS = Field Sample, EB = Equipment Rinsate Blank, MS - Matrix Spike, MSD = Matrix Spike Duplicate

Relinquished: Matthew Matti Date: 07 / 28 / 2016 Time: 1400

Received: Guest AM Date: 7 / 29 / 16 Time: 10:18

Relinquished AK 7/29/16 14:45 Rec: Kim O'Brien 7/29/16 14:45

AIRBILL: 8045 4405 6908

- ONE COOLER

Wet Chemistry



Total Solids / Percent Moisture Analysis

Sample Raw Data

ALPHA ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT
 PERCENT TOTAL SOLIDS

Last Change 3/26/13
File A2-TS_S.xlt

Sample Number: _____

Client: _____

Analysis: %TOTAL SOLIDS
 in solids
 Method: STM 2540-G

Product: A2-TS
 Analyte: Solids, Total
 Analysis Date: 8/1/2016 11:20
 Technician: SP
 Work group: WG918872
 MDL: 0.10%
 Scale Serial#: 14621307

		-----105 degrees C -----							
	Sample Number	Tare Weight (gm)	Gross Weight (gm)	Net Weight(1) (gm)	Net Weight(2) (gm)	Net Weight(3) (gm)	Net Weight(4) (gm)	Net Weight(5) (gm)	RESULT %
DUP	WG918872-1	1.18	8.64	5.83	5.85				62.33
SAMP	L1623546-01	1.18	9.04	6.51	6.52				67.81
SAMP	L1623546-02	1.19	9.57	5.18	5.18				47.61
SAMP	L1623546-03	1.19	9.08	5.82	5.83				58.68
SAMP	L1623546-04	1.18	10.06	7.01	7.03				65.65
SAMP	L1623546-05	1.17	8.29	5.72	5.72				63.90
SAMP	L1623546-06	1.17	11.98	8.7	8.72				69.66
SAMP	L1623546-07	1.19	6.25	2.48	2.49				25.49
SAMP	L1623546-08	1.18	10.67	3.91	3.92				28.77
SAMP	L1623546-09	1.17	10.7	6.49	6.51				55.82
SAMP	L1623546-10	1.18	11.9	2.8	2.81				15.11
SAMP	L1623546-11	1.18	12.44	9.35	9.36				72.56
SAMP	L1623546-12	1.18	8.29	5.71	5.73				63.71
SAMP	L1623546-13	1.18	8.26	2.33	2.33				16.24
SAMP	L1623546-14	1.17	10.46	5.43	5.43				45.86
SAMP	L1623546-15	1.16	10.24	5.7	5.72				50.00
SAMP	L1623546-16	1.17	7.33	4.62	4.64				56.01
SAMP	L1623546-17	1.19	10.51	3.06	3.08				20.06
SAMP	L1623546-18	1.18	7.54	1.98	2				12.58
SAMP	L1623546-19	1.17	6.73	3.27	3.26				37.59
SAMP	L1623546-20	1.16	10.65	5.81	5.82				49.00

Comments:

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 02 2016, 02:36 pm

Work Group: WG918872 for Department: 7 Wet Chemistry

Created: 01-AUG-16 Due: Operator: SP

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1623546-01	W-61-HIGH_072716_SED	S A2-TS	SOIL	DONE	U	0803	0819	S0	Glass-A.06
L1623546-02	W-61-INTERTIDAL-0727	S A2-TS	SOIL	DONE	U	0803	0819	S0	Glass-A.06
L1623546-03	W-61-LOW_072716_SED_	S A2-TS	SOIL	DONE	U	0803	0819	S0	Glass-A.06
L1623546-04	W-61-MID_072716_SED_	S A2-TS	SOIL	DONE	U	0803	0819	S0	Glass-A.06
L1623546-05	W-63-HIGH_072116_SED	S A2-TS	SOIL	DONE	U	0728	0819	S0	Glass-A.06
L1623546-06	W-63-HIGH_072116_SED	S A2-TS	SOIL	DONE	U	0728	0819	S0	Glass-A.06
L1623546-07	W-63-INTERTIDAL_0726	S A2-TS	SOIL	DONE	U	0802	0819	S0	Glass-A.06
L1623546-08	W-63-LOW_072616_SED_	S A2-TS	SOIL	DONE	U	0802	0819	S0	Glass-A.06
L1623546-09	W-63-MID_072616_SED_	S A2-TS	SOIL	DONE	U	0802	0819	S0	Glass-A.06
L1623546-10	W-65-HIGH_072516_SED	S A2-TS	SOIL	DONE	U	0801	0819	S0	Glass-A.06
L1623546-11	W-65-INTERTIDAL_0725	S A2-TS	SOIL	DONE	U	0801	0819	S0	Glass-A.06
L1623546-12	W-65-LOW_072516_SED_	S A2-TS	SOIL	DONE	U	0801	0819	S0	Glass-A.06
L1623546-13	W-65-MID_072516_SED_	S A2-TS	SOIL	DONE	U	0801	0819	S0	Glass-A.06
L1623546-14	ES-15_072716_SED_03	S A2-TS	SOIL	DONE	U	0803	0819	S0	Glass-A.06
L1623546-15	SVE-01_072716_SED_03	S A2-TS	SOIL	DONE	U	0803	0819	S0	Glass-A.06
L1623546-16	OL-01_072716_SED_03	S A2-TS	SOIL	DONE	U	0803	0819	S0	Glass-A.06
L1623546-17	W17-N_072116_SED_03	S A2-TS	SOIL	DONE	U	0728	0819	S0	Glass-A.06
L1623546-18	ADD-01_072116_SED_03	S A2-TS	SOIL	DONE	U	0728	0819	S0	Glass-A.06
L1623546-19	ADD-02_072216_SED_03	S A2-TS	SOIL	DONE	U	0729	0819	S0	Glass-A.06
L1623546-20	W-17-LOW_072616_SED_	S A2-TS	SOIL	DONE	U	0802	0819	S0	Glass-A.06
WG918872-1	Duplicate Sample	S A2-TS	SOIL	DONE	U				

Comments:

WG918872-1 L1623546-01

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 02 2016, 02:36 pm

Work Group: WG918950 for Department: 7 Wet Chemistry

Created: 01-AUG-16 Due: Operator: SP

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1623546-21	BO-04-02_072616_SED_	S A2-TS	SOIL	DONE	U	0802	0819	S0	Glass-A.06
L1623546-22	BO-04-02_072616_SED_	S A2-TS	SOIL	DONE	U	0802	0819	S0	Glass-A.06
WG918950-1	Duplicate Sample	S A2-TS	SOIL	DONE	U				
Comments:									
WG918950-1	L1623546-21								

Organic Carbon Analysis

Sequence Logs

Date of report: 8/9/2016 9:40 AM
 User ID: mansfield_toc1

Run	Run Details			Results				Signals				
	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR		
K1	1	10.120	8/8/2016 9:30:29 AM	14.071	24.040	1.824	1497	1892	3178	17466		
BLANK	2		8/8/2016 9:35:40 AM	51	3166	756	1503	1583	1900	15788		
0	3	10.050	8/8/2016 9:40:45 AM	-0.28%	4.574%	-1.881%	1499	1530	2739	15299		
1000	4	10.040	8/8/2016 9:45:45 AM	0.082%	4.697%	-8.672%	1500	1533	2772	15175		
5000	5	10.400	8/8/2016 9:50:46 AM	0.495%	4.516%	-10.381%	1502	1589	2823	15147		
10000	6	10.100	8/8/2016 9:55:47 AM	0.999%	4.582%	-11.379%	1502	1655	2872	15132		
20000	7	10.440	8/8/2016 10:00:48 AM	2.023%	4.432%	-11.437%	1502	1805	3022	15125		
40000	8	10.600	8/8/2016 10:25:28 AM	3.955%	4.291%	-10.889%	1498	2086	3283	15095		
ICV	9	10.200	8/8/2016 10:36:48 AM	0.984%	4.528%	-12.243%	1500	1651	2865	15096		
MB	10	74.180	8/8/2016 10:41:50 AM	-0.01%	0.076%	-1.704%	1501	1513	1716	15102		
HICV	11	52.020	8/8/2016 10:49:28 AM	3.959%	0.921%	-2.334%	1500	4327	5585	15104		
SRM1944	12	7.550	8/8/2016 11:04:06 AM	5.048%	8.927%	-8.830%	1499	2045	3789	15202		
MB	13	64.110	8/8/2016 11:09:12 AM	0.002%	0.995%	-1.862%	1502	1518	3172	15124		
SRM1944	14	8.370	8/8/2016 11:14:17 AM	4.550%	1.801%	-8.797%	1504	2048	2486	15236		
MB	15	74.650	8/8/2016 11:19:22 AM	0.002%	0.066%	-1.633%	1501	1517	1701	15109		
162354610	16	15.57	8/8/2016 11:42:37 AM	11.997%	3.084%	21.504%	1498	4807	6073	15999		
162354610	17	13.09	8/8/2016 11:47:40 AM	15.227%	3.285%	19.863%	1500	4344	5484	15874		
162354611	18	19.26	8/8/2016 11:52:43 AM	8.501%	0.464%	-5.482%	1502	1653	1940	15150		
162354611	19	18.62	8/8/2016 11:57:45 AM	0.993%	0.352%	-5.828%	1501	1618	1845	15134		
162354612	20	19.38	8/8/2016 12:02:48 PM	2.371%	0.743%	-2.346%	1501	2162	2585	15260		
162354612	21	12.75	8/8/2016 12:07:51 PM	2.775%	0.764%	-5.657%	1499	1940	2246	15192		
CCV	22	10.610	8/8/2016 12:12:53 PM	0.988%	4.577%	-11.723%	1500	1657	2931	15096		
CCB	23	89.250	8/8/2016 12:17:56 PM	0.0%	0.039%	-1.416%	1503	1515	1664	15118		
162354613	24	8.880	8/8/2016 12:24:46 PM	25.580%	4.319%	21.612%	1500	4507	5440	15700		
162354613	25	9.430	8/8/2016 12:29:48 PM	25.325%	4.464%	24.163%	1502	4977	6089	15827		
162354614	26	11.53	8/8/2016 12:34:47 PM	3.255%	0.848%	-7.700%	1503	2040	2348	15194		

Run	Run Details			Results				Signals			
	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR	
162354614	27 15.50	15.640	8/8/2016 12:39:47 PM	2.558%	0.635%	-5.281%	1501	2070	2379	15194	
162354615	28 1.04	11.120	8/8/2016 12:44:47 PM	3.979%	0.829%	-7.874%	1501	2111	2403	15178	
162354615	29 6.82	6.870	8/8/2016 12:49:47 PM	2.589%	0.578%	-15.642%	1500	1760	1921	15134	
162354912	30 9.81	7.930	8/8/2016 12:54:46 PM	9.609%	1.755%	-3.325%	1501	2574	2984	15299	
162354912	31 11.08	9.440	8/8/2016 12:59:45 PM	9.742%	1.870%	-4.22%	1500	2794	3297	15341	
162354913	32 15.55	15.510	8/8/2016 1:04:45 PM	5.214%	1.151%	-8.666%	1501	2641	3149	15331	
162354913	33 14.10	14.060	8/8/2016 1:09:44 PM	5.092%	1.130%	-1.946%	1501	2496	2955	15303	
CCV	34	10.280	8/8/2016 1:14:46 PM	0.982%	4.893%	-12.147%	1499	1651	2968	15090	
CCB	35	55.720	8/8/2016 1:19:48 PM	-0.02%	0.049%	-2.241%	1503	1514	1645	15121	
162354914	36 6.43	6.350	8/8/2016 1:42:20 PM	6.727%	1.264%	-9.402%	1501	2111	2373	15234	
162354914	37 6.56	6.480	8/8/2016 1:47:23 PM	7.573%	1.378%	-9.827%	1500	2196	2481	15222	
162354914D	38 8.10	8.0	8/8/2016 1:52:29 PM	7.159%	1.305%	-5.659%	1500	2312	2635	15260	
162354914D	39 5.07	5.010	8/8/2016 1:57:34 PM	6.804%	1.104%	-15.293%	1499	1988	2188	15184	
162354914MS	40 11.33	11.190	8/8/2016 2:02:38 PM	8.373%	4.257%	-1.289%	1500	2810	4061	15318	
162354914MS	41 11.36	11.220	8/8/2016 2:07:41 PM	8.158%	4.183%	-1.685%	1501	2786	4019	15321	
162354914MSD	42 5.09	5.920	8/8/2016 2:12:44 PM	8.719%	8.177%	-12.018%	1501	2230	3500	15214	
162354914MSD	43 8.80	8.690	8/8/2016 2:17:47 PM	8.366%	5.516%	-4.752%	1503	2538	3796	15293	
162363715	44	7.700	8/8/2016 2:22:50 PM	-0.056%	0.486%	-16.347%	1503	1511	1666	15125	
162354915	45	13.130	8/8/2016 2:27:53 PM	9.956%	2.363%	3.069%	1501	3333	4169	15439	
CCV	46	10.250	8/8/2016 2:34:53 PM	-0.034%	0.063%	-12.765%	1500	1508	1586	15084	
CCB	47	65.650	8/8/2016 2:39:55 PM	-0.01%	-0.11%	-1.932%	1500	1512	1556	15092	
CCV	48	10.0	8/8/2016 2:46:57 PM	0.899%	4.995%	-11.393%	1499	1638	2946	15112	
CCB	49	38.700	8/8/2016 2:51:59 PM	-0.02%	0.060%	-3.612%	1505	1514	1633	15111	
162354915	50 14.49	14.360	8/8/2016 3:02:35 PM	5.683%	1.351%	-6.96%	1501	2686	3230	15334	
162354915	51 11.05	10.910	8/8/2016 3:07:46 PM	5.749%	1.338%	-3.785%	1502	2389	2815	15286	
162354916	52 12.00	7.410	8/8/2016 3:12:58 PM	22.768%	3.797%	23.499%	1502	3941	4705	15715	
162354916	53 10.08	5.930	8/8/2016 3:18:11 PM	22.166%	3.671%	18.541%	1502	3358	3963	15591	

Run Details				Results				Signals			
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR	
162354916	53	10.08	8/8/2016 3:18:11 PM	22.166%	3.671%	18.541%	1502	3358	3963	15591	
162354917	54	8.85	8/8/2016 3:23:24 PM	6.955%	1.411%	-5.588%	1501	2223	2542	15277	
162354917	55	11.91	8/8/2016 3:28:39 PM	6.889%	1.381%	-2.456%	1500	2443	2833	15303	
162407401	56	23.380	8/8/2016 3:33:47 PM	1.432%	0.496%	-2.022%	1500	1986	2337	15248	
162407401	57	14.150	8/8/2016 3:38:55 PM	1.567%	0.467%	-6.048%	1501	1826	2052	15188	
162407402	58	10.900	8/8/2016 3:43:59 PM	2.508%	0.544%	-10.407%	1501	1890	2100	15124	
162407402	59	15.730	8/8/2016 3:49:03 PM	1.771%	0.488%	-6.547%	1500	1899	2152	15142	
CCV	60	10.340	8/8/2016 3:54:04 PM	0.938%	4.791%	-12.366%	1498	1643	2942	15069	
CCB	61	52.500	8/8/2016 4:09:34 PM	0.0%	0.039%	-2.208%	1502	1517	1630	15129	
162407403	62	14.840	8/8/2016 4:09:36 PM	14.688	0.521%	-1.978%	1500	4510	4765	15292	
162407403	63	10.330	8/8/2016 4:20:09 PM	21.819	0.639%	-4.624%	1498	4605	4832	15234	
162407404	64	6.280	8/8/2016 4:25:06 PM	29.250	2.139%	1.347%	1499	4048	4445	15351	
162407405	65	8.410	8/8/2016 4:30:01 PM	20.606	2.143%	4.082%	1499	3911	4423	15408	
162407405	66	10.310	8/8/2016 4:34:50 PM	24.039	2.926%	1.303%	1508	4934	5749	15451	
162407405	67	8.450	8/8/2016 4:39:38 PM	23.386	3.023%	-1.001%	1501	4237	4936	15341	
162407406	68	7.530	8/8/2016 4:44:27 PM	24.672	1.174%	-17.905%	1499	4047	4330	15063	
162407406	69	6.540	8/8/2016 4:49:16 PM	30.031	1.203%	-16.584%	1496	4195	4453	15088	
162407402	70	13.210	8/8/2016 4:54:05 PM	5.043%	0.452%	-9.792%	1498	2420	2631	15064	
162407402	71	11.190	8/8/2016 4:58:54 PM	4.153%	0.510%	-11.826%	1498	2145	2350	15065	
CCV	72	10.370	8/8/2016 5:03:43 PM	5.325%	4.715%	-13.241%	1498	2263	3546	15051	
CCB	73	106.90	8/8/2016 5:08:33 PM	0.114%	0.009%	-1.336%	1500	1676	1763	15059	
CCV	74	10.150	8/9/2016 7:50:41 AM	1.167%	4.687%	29.508%	1501	1762	3011	15959	
CCB	75	92.010	8/9/2016 7:57:59 AM	0.024%	0.026%	-5.35%	1502	1560	1683	15266	
162354615	76	9.780	8/9/2016 8:18:38 AM	2.521%	0.593%	-8.976%	1499	1858	2064	15162	
162354615	77	8.240	8/9/2016 8:23:27 AM	2.481%	0.517%	-12.740%	1500	1797	1965	15138	
162407403	78	7.700	8/9/2016 8:28:16 AM	15.616	0.563%	-9.240%	1500	3166	3336	15203	
162407403	79	5.940	8/9/2016 8:33:04 AM	21.246	0.515%	-11.558%	1502	3250	3388	15224	

Run Details			Results				Signals			
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR
162407403	79	5.940	8/9/2016 8:33:04 AM	21.246	0.515%	-11.558%	1502	3250	3388	15224
162407404	80	5.530	8/9/2016 8:37:53 AM	17.557	2.026%	-5.218%	1501	2859	3201	15294
162407404	81	6.200	8/9/2016 8:42:42 AM	14.535	1.928%	-3.771%	1501	2766	3126	15312
CCV	82	10.260	8/9/2016 8:58:13 AM	1.517%	4.375%	-12.511%	1499	1725	2907	15080
CCB	83	75.190	8/9/2016 9:03:03 AM	0.037%	0.024%	-1.773%	1503	1552	1659	15104
CCV	84	10.260	8/9/2016 9:28:43 AM	1.031%	4.566%	-12.365%	1499	1657	2888	15084
CCB	85	59.910	8/9/2016 9:33:33 AM	0.005%	0.030%	-2.275%	1502	1518	1624	15096

Date of report: 8/10/2016 9:13 AM
 User ID: Alpha Analytical

Run Details			Results				Signals			
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR
K1	1	10.200	8/9/2016 8:42:23 AM	19.647	-0.39	0.851	26563	29637	29543	2759
BLANK	2		8/9/2016 8:49:17 AM	35	-66	268	26506	26809	26743	2677
0	3	10.100	8/9/2016 8:54:14 AM	-0.25%	2.017%	0.572%	26482	26549	26490	2656
1000	4	10.080	8/9/2016 8:59:09 AM	0.077%	2.572%	0.102%	26471	26690	26634	2650
5000	5	10.150	8/9/2016 9:04:00 AM	0.478%	4.379%	-0.28%	26464	27470	27424	2648
10000	6	10.340	8/9/2016 9:08:50 AM	0.992%	5.194%	-0.72%	26461	28524	28483	2647
20000	7	10.320	8/9/2016 9:13:41 AM	1.994%	6.101%	-0.99%	26469	30559	30523	2647
40000	8	10.650	8/9/2016 9:18:31 AM	3.931%	8.520%	0.490%	26479	34821	34800	2655
ICV	9	10.220	8/9/2016 9:25:49 AM	0.985%	8.335%	-1.09%	26505	28527	28503	2651
ICB	10	64.460	8/9/2016 9:30:41 AM	-0.01%	0.833%	-0.27%	26500	26521	26480	2650
HICV	11	51.270	8/9/2016 9:49:30 AM	3.895%	3.034%	-0.16%	26554	65858	65872	2656
SRM1944	12	8.660	8/9/2016 10:01:28 A	4.161%	812.377	1.344%	26549	33814	37543	2669
MB	13	64.510	8/9/2016 10:06:18 A	0.017%	0.459%	-0.26%	26522	26777	26723	2652
SRM1944	14	7.580	8/9/2016 10:11:12 A	4.493%	9.284%	1.290%	26507	33363	33331	2663
MB	15	86.260	8/9/2016 10:16:07 A	0.006%	0.258%	-0.19%	26528	26673	26615	2652
162354622	16	6.490	8/9/2016 10:27:31 A	9.011%	10.558	3.314%	26549	38332	38299	2679
162354622	17	5.900	8/9/2016 10:32:21 A	8.785%	26.365	3.140%	26551	36995	37009	2676
162354621	18	5.340	8/9/2016 10:37:12 A	7.666%	14.912	2.668%	26556	34812	34785	2672
162354621	19	6.750	8/9/2016 10:42:04 A	7.087%	10.974	2.579%	26572	36219	36189	2677
162354621D	20	6.690	8/9/2016 10:47:02 A	7.185%	6.090%	2.728%	26580	36281	36233	2679
162354621D	21	8.220	8/9/2016 10:52:00 A	7.404%	5.857%	3.092%	26588	38881	38837	2688
CCV	22	10.300	8/9/2016 10:56:51 A	1.011%	10.248	-0.99%	26606	28697	28684	2661
CCB	23	76.360	8/9/2016 11:01:42 A	0.003%	0.388%	-0.17%	26608	26695	26641	2661
162354621MS	24	5.820	8/9/2016 11:07:21 A	9.385%	23.546	2.848%	26607	37579	37583	2680
162354621MS	25	5.530	8/9/2016 11:12:12 A	9.065%	23.776	2.593%	26624	36688	36689	2679
162354621MS	26	5.900	8/9/2016 11:16:28 A	9.475%	20.402	2.825%	26625	37850	37845	2682

Run Details			Results				Signals			
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR
162354621MS	27	6.290	8/9/2016 11:21:00 A	9.281%	16.193	2.813%	26626	38348	38333	2683
162354620	28	9.060	8/9/2016 11:25:48 A	2.064%	6.745%	0.514%	26629	30410	30373	2669
162354620	29	8.370	8/9/2016 11:30:41 A	2.168%	5.089%	0.534%	26629	30299	30252	2669
162354616	30	11.080	8/9/2016 11:35:32 A	1.508%	3.176%	0.420%	26631	30022	29971	2670
162354616	31	9.170	8/9/2016 11:40:23 A	2.006%	5.049%	0.416%	26641	30353	30308	2670
162354609	32	9.570	8/9/2016 11:45:15 A	2.381%	4.644%	0.681%	26639	31243	31197	2672
162354609	33	9.230	8/9/2016 11:50:02 A	2.133%	6.220%	0.646%	26633	30622	30583	2671
CCV	34	10.230	8/9/2016 11:54:59 A	0.999%	10.680	-1.18%	26642	28694	28683	2664
CCB	35	75.770	8/9/2016 12:00:16 PM	0.002%	-0.98%	0.001%	26661	26740	26666	2668
162354608	36	10.440	8/9/2016 12:31:13 PM	6.450%	6.918%	2.167%	26654	40191	40160	2691
162354618	37	11.620	8/9/2016 12:36:06 PM	6.456%	8.287%	2.188%	26640	41717	41699	2693
162354607	38	7.120	8/9/2016 12:40:53 PM	7.201%	9.623%	2.694%	26649	36990	36957	2687
162354607	39	9.750	8/9/2016 12:46:00 PM	7.453%	5.698%	2.636%	26646	41263	41223	2694
162354604	40	11.660	8/9/2016 12:51:14 PM	1.261%	0.635%	0.391%	26643	29637	29571	2671
162354604	41	10.810	8/9/2016 12:55:46 PM	1.714%	2.912%	0.345%	26662	30400	30347	2672
162354603	42	11.660	8/9/2016 1:00:31 PM	1.962%	2.541%	0.671%	26664	31300	31246	2676
162354603	43	14.890	8/9/2016 1:05:22 PM	1.949%	3.980%	0.732%	26650	32526	32488	2678
162354602	44	17.250	8/9/2016 1:10:11 PM	2.125%	3.972%	0.470%	26654	34003	33970	2676
162354602	45	16.380	8/9/2016 1:14:52 PM	4.487%	5.879%	0.512%	26664	41259	41241	2677
CCV	46	10.330	8/9/2016 1:23:37 PM	0.989%	3.765%	0.036%	26684	28751	28702	2670
CCB	47	34.930	8/9/2016 1:28:39 PM	0.003%	-0.689%	-0.48%	26665	26720	26637	2666
162354602	48	16.160	8/9/2016 1:38:59 PM	3.239%	2.636%	0.668%	26685	37148	37101	2682
162354602	49	9.410	8/9/2016 1:43:58 PM	3.444%	4.133%	0.584%	26676	33162	33113	2675
162354601	50	14.560	8/9/2016 1:48:56 PM	2.183%	3.307%	0.927%	26658	33108	33064	2682
162354601	51	17.220	8/9/2016 1:53:52 PM	2.425%	3.764%	0.979%	26655	35102	35067	2685
162394201	52	21.900	8/9/2016 1:58:48 PM	0.843%	2.199%	0.302%	26659	30416	30372	2674
162394201	53	11.250	8/9/2016 2:03:28 PM	0.854%	3.786%	0.257%	26654	28628	28581	2670

Run	Run Details			Results				Signals			
	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR	
162394201	53	11.250	8/9/2016 2:03:28 PM	0.854%	3.786%	0.257%	26654	28628	28581	2670	
MB	54	92.110	8/9/2016 2:08:12 PM	0.004%	0.161%	-0.15%	26647	26756	26694	2665	
162394202	55	12.040	8/9/2016 2:13:04 PM	1.967%	4.153%	0.595%	26635	31422	31379	2673	
162394202	56	12.670	8/9/2016 2:32:57 PM	2.009%	1.315%	0.544%	26652	31785	31724	2674	
CCV	57	10.640	8/9/2016 2:37:47 PM	0.937%	15.142	0.726%	26632	28730	28747	2673	
CCB	58	69.010	8/9/2016 2:42:39 PM	-0.05%	0.483%	-0.38%	26618	26583	26531	2660	
162379105	59	9.590	8/9/2016 2:49:54 PM	1.308%	11.779	0.612%	26594	29178	29169	2667	
1623799105	60	13.060	8/9/2016 2:54:44 PM	1.298%	3.828%	0.763%	26611	30106	30063	2673	
162379106	61	10.020	8/9/2016 2:59:35 PM	1.320%	5.360%	0.743%	26607	29342	29301	2670	
162379106	62	18.020	8/9/2016 3:04:29 PM	1.358%	3.802%	0.770%	26613	31629	31596	2678	
162379107	63	8.520	8/9/2016 3:09:23 PM	1.227%	8.477%	0.852%	26631	28820	28789	2672	
162379107	64	14.940	8/9/2016 3:14:16 PM	1.237%	1.735%	0.841%	26638	30461	30405	2679	
162379108	65	22.580	8/9/2016 3:19:05 PM	-0.14%	1.148%	-0.78%	26635	26608	26552	2663	
162379108	66	11.210	8/9/2016 3:23:56 PM	3.903%	6.773%	2.060%	26634	35538	35509	2690	
162379109	67	11.360	8/9/2016 3:28:49 PM	1.595%	5.379%	0.721%	26642	30348	30311	2674	
162379109	68	17.890	8/9/2016 3:33:41 PM	1.923%	4.348%	0.874%	26644	33630	33602	2683	
CCV	69	10.740	8/9/2016 3:56:23 PM	0.987%	15.001	-0.95%	26659	28788	28805	2666	
CCB	70	87.130	8/9/2016 4:01:19 PM	0.0%	0.383%	-0.22%	26635	26676	26624	2663	
162379110	1	13.620	8/9/2016 4:14:27 PM	1.937%	4.487%	0.861%	26633	32000	31963	2677	
162379110	2	15.690	8/9/2016 4:19:23 PM	1.645%	1.062%	0.819%	26619	31886	31825	2677	
162379110D	3	10.040	8/9/2016 4:24:19 PM	1.537%	0.738%	0.742%	26620	29789	29723	2671	
162379110D	4	14.140	8/9/2016 4:29:15 PM	1.925%	1.441%	0.797%	26618	32144	32085	2675	
162379110MS	5	10.870	8/9/2016 4:34:08 PM	2.723%	21.466	0.899%	26627	32606	32662	2675	
162379110MS	6	12.620	8/9/2016 4:38:48 PM	3.408%	19.663	0.863%	26633	35261	35325	2676	
162379108	7	20.300	8/9/2016 4:43:38 PM	1.270%	1.642%	0.624%	26627	31887	31835	2678	
162379108	8	10.260	8/9/2016 4:48:32 PM	1.748%	2.166%	0.572%	26632	30275	30217	2671	
BLANK	9		8/9/2016 4:53:27 PM	-8	-57	-8	26637	26621	26564	2662	

Run	Run Details			Results				Signals			
	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR	
BLANK	9		8/9/2016 4:53:27 PM	-8	-57	-8	26637	26621	26564	2662	
162379116	10	12.010	8/9/2016 4:58:20 PM	1.204%	4.934%	0.698%	26639	29590	29558	2673	
162379116	11	12.210	8/9/2016 5:03:12 PM	1.331%	4.702%	0.724%	26633	29943	29910	2673	
CCV	12	10.360	8/9/2016 5:08:03 PM	0.975%	22.344	0.944%	26640	28750	28811	2675	
CCB	13	97.680	8/9/2016 5:12:47 PM	0.002%	0.171%	-0.07%	26639	26689	26634	2663	
162379108	14	8.510	8/10/2016 8:38:02 A	1.276%	-9.140%	11.149%	26858	30030	29924	2788	
162379108	15	8.390	8/10/2016 8:43:04 A	1.427%	-2.428%	3.562%	26792	29485	29410	2711	
162379110MS	16	14.150	8/10/2016 8:48:03 A	2.387%	4.057%	1.612%	26810	33715	33682	2706	
162379110MS	17	15.080	8/10/2016 8:53:01 A	2.322%	4.666%	1.235%	26814	33917	33891	2701	
CCV	18	10.210	8/10/2016 9:05:20 A	0.797%	12.696	1.760%	26822	28633	28639	2702	
CCB	19	77.260	8/10/2016 9:09:58 A	0.002%	0.911%	-0.029%	26805	26836	26810	2678	

Date of report: 8/10/2016 1:37 PM
 User ID: mansfield_toc1

Run	Run Details			Results				Signals			
	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR	
COND	1	7.500	8/9/2016 10:34:45 AM	4.992%	9.292%	14.129%	1501	2072	3873	15565	
K1	2	10.350	8/9/2016 10:40:55 AM	16.106	32.026	-1.28	1501	1691	3420	15203	
BLANK	3		8/9/2016 10:46:55 AM	251	16838	111	1502	1538	3222	15135	
K1	4	10.200	8/9/2016 10:51:43 AM	15.176	29.558	-2.08	1504	1673	3251	15140	
K1	5	10.320	8/9/2016 11:09:55 AM	14.545	24.338	-1.93	1500	1666	2991	15117	
BLANK	6		8/9/2016 11:25:03 AM	106	3414	103	1500	1521	1863	15110	
0	7	10.300	8/9/2016 11:30:36 AM	0.0%	3.849%	-8.21%	1500	1517	2800	15099	
1000	8	10.410	8/9/2016 11:35:24 AM	0.082%	3.694%	-7.65%	1504	1533	2779	15133	
5000	9	10.380	8/9/2016 11:40:12 AM	0.453%	3.799%	-9.11%	1505	1591	2868	15146	
10000	10	10.510	8/9/2016 11:45:01 AM	0.911%	3.901%	-8.05%	1504	1662	2987	15136	
20000	11	10.820	8/9/2016 11:49:50 AM	1.766%	3.656%	-6.44%	1505	1805	3085	15152	
40000	12	11.200	8/9/2016 11:54:39 AM	3.642%	3.540%	-6.66%	1506	2126	3409	15159	
ICV	13	10.600	8/9/2016 12:01:41 PM	0.912%	3.745%	-1.314%	1503	1661	2945	15109	
ICB	14	107.20	8/9/2016 12:06:28 PM	-0.01%	0.031%	-1.44%	1504	1518	1681	15118	
HICV	15	52.190	8/9/2016 12:11:16 PM	3.674%	0.784%	-2.19%	1503	4354	5677	15122	
SRM1944	16	13.840	8/9/2016 12:28:07 PM	4.116%	4.250%	5.212%	1503	2378	4251	15287	
MB	17	63.030	8/9/2016 12:41:25 PM	-0.01%	0.252%	-1.89%	1501	1516	2066	15094	
SRM1944	18	7.860	8/9/2016 12:46:12 PM	3.784%	1.076%	4.051%	1502	1966	2289	15194	
MB	19	53.510	8/9/2016 12:51:00 PM	-0.05%	0.034%	-2.32%	1500	1512	1631	15091	
162354905	20	9.600	8/9/2016 12:55:47 PM	5.216%	1.020%	5.701%	1500	2269	2633	15220	
162354905	21	10.860	8/9/2016 1:00:35 PM	5.209%	1.001%	5.772%	1502	2369	2766	15254	
162354906	22	14.030	8/9/2016 1:05:23 PM	6.721%	1.155%	6.560%	1502	2933	3493	15314	
162354906	23	12.480	8/9/2016 1:10:11 PM	6.646%	1.140%	6.339%	1502	2762	3263	15290	
162354907	24	13.780	8/9/2016 1:14:59 PM	2.880%	0.617%	3.394%	1502	2116	2440	15224	
162354907	25	16.280	8/9/2016 1:19:46 PM	2.482%	0.531%	2.903%	1502	2127	2455	15226	
CCV	26	10.580	8/9/2016 1:24:34 PM	0.897%	3.886%	-1.035%	1502	1658	2986	15106	

Run Details			Results					Signals				
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR		
CCB	27	81.070	8/9/2016 1:29:22 PM	-0.03%	0.022%	-1.60%	1503	1515	1633	15119		
162354909	28	12.310	8/9/2016 1:39:23 PM	1.450%	0.346%	1.010%	1500	1785	1978	15140		
162354909	29	12.860	8/9/2016 1:44:11 PM	1.545%	0.312%	1.199%	1500	1815	2001	15146		
162354910	30	9.760	8/9/2016 1:48:59 PM	2.312%	0.366%	2.090%	1499	1855	2027	15147		
162354910	31	11.310	8/9/2016 1:53:47 PM	2.337%	0.395%	2.551%	1500	1915	2115	15173		
162354918	32	12.290	8/9/2016 1:58:35 PM	9.850%	1.403%	16.435%	1500	3349	3942	15517		
162354918	33	20.030	8/9/2016 2:03:23 PM	10.018	1.532%	16.915%	1501	4554	5561	15802		
162354919	34	15.680	8/9/2016 2:08:11 PM	10.053	1.527%	16.721%	1502	3904	4703	15658		
162354919	35	16.750	8/9/2016 2:12:59 PM	10.551	1.581%	17.851%	1502	4193	5071	15730		
162354919D	36	14.400	8/9/2016 2:17:47 PM	10.661	1.576%	17.240%	1502	3840	4601	15631		
162354919D	37	15.600	8/9/2016 2:22:35 PM	10.719	1.596%	17.891%	1502	4049	4877	15693		
CCV	38	10.300	8/9/2016 2:27:23 PM	0.902%	4.088%	-1.159%	1502	1655	3013	15106		
CCB	39	86.440	8/9/2016 2:32:12 PM	-0.02%	0.016%	-0.035%	1504	1519	1624	15145		
162354919MS	40	20.490	8/9/2016 2:37:02 PM	11.239	1.987%	18.211%	1502	5000	6316	15881		
162354919MS	41	16.330	8/9/2016 2:41:52 PM	11.384	2.528%	18.280%	1504	4331	5664	15749		
CCV	42	10.210	8/9/2016 2:47:49 PM	0.825%	4.036%	-6.33%	1504	1645	2976	15138		
CCB	43	62.310	8/9/2016 2:52:45 PM	-0.04%	0.034%	-0.088%	1505	1519	1645	15151		
162354904	44	5.711	8/9/2016 3:11:23 PM	8.502%	1.349%	8.790%	1501	2246	2543	15221		
162354904	45	6.43	8/9/2016 3:16:11 PM	8.241%	1.325%	9.748%	1500	2320	2642	15237		
162354908	46	5.298	8/9/2016 4:18:50 PM	7.497%	1.249%	13.637%	1498	2117	2383	15236		
162354908	47	6.650	8/9/2016 4:23:39 PM	7.818%	1.310%	11.970%	1499	2302	2632	15258		
162354911	48	6.580	8/9/2016 4:28:29 PM	4.225%	0.655%	6.124%	1499	1937	2131	15184		
162354911	49	8.57	8/9/2016 4:33:18 PM	4.199%	0.689%	6.269%	1499	2104	2349	15214		
162354903	50	9.090	8/9/2016 4:38:07 PM	3.228%	0.594%	5.856%	1500	2032	2260	15217		
162354903	51	9.840	8/9/2016 4:42:56 PM	4.164%	0.742%	7.685%	1500	2140	2426	15268		
162354902	52	12.880	8/9/2016 4:47:46 PM	0.355%	0.219%	0.464%	1500	1588	1736	15128		
162354902	53	16.27	8/9/2016 4:52:36 PM	0.309%	0.216%	0.551%	1500	1593	1763	15134		

Run Details			Results					Signals				
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR		
162354902	53	16.250	8/9/2016 4:52:36 PM	0.308%	0.216%	0.551%	1500	1593	1763	15134		
CCV	54	10.350	8/9/2016 4:57:26 PM	0.901%	3.969%	5.576%	1501	1668	2995	15233		
CCB	55	61.910	8/9/2016 5:02:17 PM	-0.02%	0.009%	-0.72%	1503	1519	1598	15136		
16354901	56	16.610	8/10/2016 8:09:57 AM	0.399%	0.338%	22.734%	1503	1695	1930	15901		
162354901	57	15.160	8/10/2016 8:14:44 AM	0.38%	0.331%	7.220%	1504	1631	1847	15368		
162354605	58	11.12	8/10/2016 8:19:30 AM	1.95%	0.509%	4.859%	1505	1856	2093	15266		
162354605	59	10.58	8/10/2016 8:24:17 AM	1.76%	0.466%	2.436%	1503	1804	2018	15197		
162354606	60	15.370	8/10/2016 8:29:03 AM	1.487%	0.479%	1.975%	1504	1867	2155	15215		
162354606	61	16.190	8/10/2016 8:33:50 AM	1.242%	0.458%	1.383%	1503	1823	2113	15187		
162354617	62	7.760	8/10/2016 8:38:36 AM	1.25%	2.444%	23.786%	1504	3195	3841	15523		
162354617	63	5.290	8/10/2016 8:43:23 AM	1.26%	2.420%	21.819%	1504	2622	3078	15384		
162354618	64	5.600	8/10/2016 8:48:10 AM	1.55%	2.897%	27.766%	1504	3113	3681	15466		
162354618	65	6.310	8/10/2016 8:52:56 AM	1.95%	3.079%	28.384%	1506	3328	3989	15529		
CCV	66	10.190	8/10/2016 8:57:43 AM	0.868%	3.457%	-6.84%	1505	1653	2799	15147		
CCB	67	52.020	8/10/2016 9:02:30 AM	-0.08%	0.006%	-2.49%	1509	1519	1591	15175		
162354619	68	10.620	8/10/2016 9:07:56 AM	2.49%	0.594%	5.059%	1507	1927	2183	15290		
162354619	69	9.170	8/10/2016 9:12:43 AM	2.33%	0.559%	4.069%	1506	1848	2068	15249		
CCV	70	10.250	8/10/2016 9:20:42 AM	0.894%	4.113%	-1.456%	1505	1656	3016	15136		
CCB	71	86.470	8/10/2016 9:25:29 AM	-0.04%	0.012%	-1.96%	1506	1517	1611	15142		
162379117	1	8.100	8/10/2016 10:48:38 AM	1.177%	0.602%	5.098%	1503	1671	1883	15226		
162379117	2	8.570	8/10/2016 10:53:25 AM	1.047%	0.540%	2.032%	1503	1658	1862	15181		
162379118	3	10.930	8/10/2016 10:58:12 AM	1.106%	0.535%	1.912%	1503	1704	1946	15182		
162379118	4	7.850	8/10/2016 11:02:58 AM	0.974%	0.478%	0.887%	1504	1637	1815	15168		
162379119	5	11.650	8/10/2016 11:07:45 AM	1.044%	0.558%	1.794%	1504	1706	1968	15192		
162379119	6	5.790	8/10/2016 11:12:32 AM	1.135%	0.432%	0.516%	1505	1621	1760	15166		
162379120	7	16.790	8/10/2016 11:17:19 AM	1.176%	0.635%	2.311%	1503	1821	2212	15224		
162379120	8	10.310	8/10/2016 11:22:06 AM	1.070%	0.625%	1.448%	1506	1690	1951	15200		

Run Details			Results				Signals			
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR
162379120	8	10.310	8/10/2016 11:22:06 AM	1.070%	0.625%	1.448%	1506	1690	1951	15200
162379120D	9	6.970	8/10/2016 11:26:53 AM	1.095%	0.529%	0.928%	1505	1638	1813	15178
162379120D	10	14.500	8/10/2016 11:31:40 AM	1.127%	0.644%	2.127%	1506	1772	2121	15231
CCV	11	10.490	8/10/2016 11:36:26 AM	0.885%	3.869%	-1.565%	1506	1658	2970	15139
CCB	12	39.700	8/10/2016 11:41:14 AM	-0.10%	0.007%	-2.13%	1507	1518	1588	15163
162379120MS	13	13.610	8/10/2016 11:47:11 AM	1.877%	3.013%	2.230%	1504	1907	3231	15217
162379120MS	14	15.490	8/10/2016 11:51:58 AM	1.810%	2.631%	2.505%	1506	1946	3263	15248
162354604	15	10.030	8/10/2016 11:56:45 AM	1.272%	0.500%	0.248%	1508	1715	1932	15194
162354604	16	17.310	8/10/2016 12:01:33 PM	1.356%	0.375%	1.035%	1506	1875	2137	15207
SRM1944	17	8.740	8/10/2016 12:06:20 PM	4.066%	0.513%	4.042%	1506	2057	2257	15241
MB	18	52.960	8/10/2016 12:11:07 PM	0.005%	-0.19%	-2.44%	1505	1524	1556	15134
SRM1944	19	6.690	8/10/2016 12:15:54 PM	3.770%	0.333%	3.049%	1505	1900	2031	15202
MB	20	82.910	8/10/2016 12:20:46 PM	-0.002%	-0.14%	-1.32%	1504	1518	1543	15129
CCV	21	10.580	8/10/2016 12:25:38 PM	0.906%	3.908%	-1.41%	1505	1665	3000	15163
CCB	22	53.300	8/10/2016 12:30:30 PM	-0.007%	0.019%	-2.05%	1508	1518	1611	15165

Sample Raw Data

Date of report 8/9/2016 9:40:49AM

User ID mansfield_toc1

DATE & TIME	8/8/2016 9:31:29 AM	P_ID	080816AR
RUN TYPE	BLANK	USER ID	mansfield_toc1
WEIGHT (mg)	10.040	MODE	CHN
SIGNALS			
		ZR	14970
		NR	17466
		CR	18927
		HR	31784
		AVERAGE RESULTS	
KC	14.071	KC	13.656
KH	24.040	KH	24.958
KN	1.824	KN	0.201
BLANKS	37 620 342		
K FACTORS	1.0% 5.03% 11.67%		
FILL TIME	54 Seconds		

DATE & TIME	8/8/2016 9:35:40 AM	P_ID	080816AR
RUN TYPE	BLANK	USER ID	mansfield_toc1
		MODE	CHN
SIGNALS			
		ZR	15032
		NR	15788
		CR	15839
		HR	19005
		AVERAGE RESULTS	
CARBON	44	CARBON	44
HYDROGEN	620	HYDROGEN	620
NITROGEN	342	NITROGEN	342
FILL TIME	52 Seconds		
NUMBER	MESSAGE		
16	HYDROGEN BLANK OUT OF TOLERANCE		
17	NITROGEN BLANK OUT OF TOLERANCE		

DATE & TIME	8/8/2016 9:40:05 AM	P_ID	080816AR
SAMPLE ID	0	USER ID	mansfield_toc1
WEIGHT (mg)	10.040	MODE	CHN
SIGNALS			
		ZR	14995
		NR	15299
		CR	15305
		HR	27399
CARBON	0.028%		
HYDROGEN	4.574%		
NITROGEN	-1.881%		
BLANKS	44 620 342		
K FACTORS	13.656 24.958 0.201		
FILL	COMB BOOST1 BOOST2		
0	0 0 0		
FILL TIME	42 Seconds		

DATE & TIME	8/8/2016 9:45:45 AM	P_ID	080816AR
SAMPLE ID	1000	USER ID	mansfield_toc1
WEIGHT (mg)	10.040	MODE	CHN
SIGNALS			
		ZR	15008
		NR	15175
		CR	15332
		HR	27722
CARBON	0.082%		
HYDROGEN	4.697%		
NITROGEN	-8.672%		
BLANKS	44 620 342		
K FACTORS	13.656 24.958 0.201		

FILL 0 COMB 0 BOOST1 0 BOOST2 0
 FILL TIME 42 Seconds

DATE & TIME 8/8/2016 9:54:48 AM P_ID 080816AR
 SAMPLE ID 10000 USER ID mansfield_toc1
 WEIGHT (mg) 10.100 MODE CHN

SIGNALS

ZR 15022
 NR 15147
 CR 15894
 HR 28235
 CARBON 0.495%
 HYDROGEN 4.516%
 NITROGEN -10.381%
 BLANKS 44 620 342
 K FACTORS 13.656 24.958 0.201
 FILL 0 COMB 0 BOOST1 0 BOOST2 0
 FILL TIME 42 Seconds

DATE & TIME 8/8/2016 9:55:47 AM P_ID 080816AR
 SAMPLE ID 10000 USER ID mansfield_toc1
 WEIGHT (mg) 10.100 MODE CHN

SIGNALS

ZR 15021
 NR 15132
 CR 16554
 HR 28723
 CARBON 0.999%
 HYDROGEN 4.582%
 NITROGEN -11.374%
 BLANKS 44 620 342
 K FACTORS 13.656 24.958 0.201
 FILL 0 COMB 0 BOOST1 0 BOOST2 0
 FILL TIME 42 Seconds

DATE & TIME 8/8/2016 10:10:48 AM P_ID 080816AR
 SAMPLE ID 10000 USER ID mansfield_toc1
 WEIGHT (mg) 10.400 MODE CHN

SIGNALS

ZR 15023
 NR 15125
 CR 18053
 HR 30222
 CARBON 2.023%
 HYDROGEN 4.432%
 NITROGEN -11.437%
 BLANKS 44 620 342
 K FACTORS 13.656 24.958 0.201
 FILL 0 COMB 0 BOOST1 0 BOOST2 0
 FILL TIME 43 Seconds

DATE & TIME 8/8/2016 10:25:28 AM P_ID 080816AR
 SAMPLE ID 40000 USER ID mansfield_toc1
 WEIGHT (mg) 10.600 MODE CHN

SIGNALS

ZR 14985

CARBON	3.955%	NR	15095
HYDROGEN	4.291%	CR	20864
NITROGEN	-10.889%	HR	32837
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	44 Seconds		

DATE & TIME	8/9/2016 10:41:48 AM	P_ID	080816AR
SAMPLE ID	EV	USER ID	mansfield_toc1
WEIGHT (mg)	10.290	MODE	CHN

SIGNALS

		ZR	15005
CARBON	3.955%	NR	15096
HYDROGEN	4.291%	CR	16511
NITROGEN	-10.889%	HR	28657
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	44 Seconds		

DATE & TIME	8/9/2016 10:41:50 AM	P_ID	080816AR
SAMPLE ID	EV	USER ID	mansfield_toc1
WEIGHT (mg)	10.290	MODE	CHN

SIGNALS

		ZR	15014
CARBON	-0.001%	NR	15102
HYDROGEN	0.076%	CR	15139
NITROGEN	-1.704%	HR	17164
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	44 Seconds		

DATE & TIME	8/8/2016 10:49:28 AM	P_ID	080816AR
SAMPLE ID	HICV	USER ID	mansfield_toc1
WEIGHT (mg)	52.020	MODE	CHN

SIGNALS

		ZR	15006
CARBON	3.959%	NR	15104
HYDROGEN	0.921%	CR	43273
NITROGEN	-2.334%	HR	55852
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	45 Seconds		

DATE & TIME	8/8/2016 11:04:06 AM	P_ID	080816AR
SAMPLE ID	SRM1944	USER ID	mansfield_toc1
WEIGHT (mg)	7.550	MODE	CHN

SIGNALS

	ZR	14994
CARBON	NR	15202
HYDROGEN	CR	20451
NITROGEN	HR	37892
BLANKS	44	620 342
K FACTORS	13.656	24.958 0.201
FILL	COMB	BOOST1 BOOST2
	0	0 0
FILL TIME	49 Seconds	

DATE & TIME	8/8/2016 11:06:17 AM	P_ID	080816AR
SAMPLE ID	MB	USER ID	mansfield_toc1
WEIGHT (mg)	7.550	MODE	CHN

SIGNALS

	ZR	15022
CARBON	NR	15124
HYDROGEN	CR	15185
NITROGEN	HR	31726
BLANKS	44	620 342
K FACTORS	13.656	24.958 0.201
FILL	COMB	BOOST1 BOOST2
	0	0 0
FILL TIME	48 Seconds	

DATE & TIME	8/8/2016 11:14:17 AM	P_ID	080816AR
SAMPLE ID	MB	USER ID	mansfield_toc1
WEIGHT (mg)	7.550	MODE	CHN

SIGNALS

	ZR	15042
CARBON	NR	15236
HYDROGEN	CR	20481
NITROGEN	HR	24863
BLANKS	44	620 342
K FACTORS	13.656	24.958 0.201
FILL	COMB	BOOST1 BOOST2
	0	0 0
FILL TIME	47 Seconds	

DATE & TIME	8/8/2016 11:19:22 AM	P_ID	080816AR
SAMPLE ID	MB	USER ID	mansfield_toc1
WEIGHT (mg)	74.650	MODE	CHN

SIGNALS

	ZR	15012
CARBON	NR	15109
HYDROGEN	CR	15172
NITROGEN	HR	17013
BLANKS	44	620 342

K FACTORS 13.656 24.958 0.201
 FILL COMB BOOST1 BOOST2
 0 0 0 0
 FILL TIME 46 Seconds

DATE & TIME 8/8/2016 11:42:37 AM P_ID 080816AR
 SAMPLE ID 162354611 USER ID mansfield_toc1
 WEIGHT (mg) 18.880 15.57 MODE CHN

SIGNALS
 ZR 14981
 NR 15999
 CR 48074
 HR 60733

CARBON 14.997% 15.064
 HYDROGEN 3.084%
 NITROGEN 21.504%
 BLANKS 44 620 342
 K FACTORS 13.656 24.958 0.201
 FILL COMB BOOST1 BOOST2
 0 0 0 0
 FILL TIME 44 Seconds

DATE & TIME 8/8/2016 11:47:41 AM P_ID 080816AR
 SAMPLE ID 162354611 USER ID mansfield_toc1
 WEIGHT (mg) 18.880 15.07 MODE CHN

SIGNALS
 ZR 15007
 NR 15874
 CR 43442
 HR 54842

CARBON 14.124% 15.241
 HYDROGEN 3.287%
 NITROGEN 21.167%
 BLANKS 44 620 342
 K FACTORS 13.656 24.958 0.201
 FILL COMB BOOST1 BOOST2
 0 0 0 0
 FILL TIME 44 Seconds

DATE & TIME 8/8/2016 11:52:43 AM P_ID 080816AR
 SAMPLE ID 162354611 USER ID mansfield_toc1
 WEIGHT (mg) 18.880 18.21 MODE CHN

SIGNALS
 ZR 15022
 NR 15150
 CR 16531
 HR 19401

CARBON 0.504% .508
 HYDROGEN 0.464%
 NITROGEN 5.482%
 BLANKS 44 620 342
 K FACTORS 13.656 24.958 0.201
 FILL COMB BOOST1 BOOST2
 0 0 0 0
 FILL TIME 44 Seconds

DATE & TIME 8/8/2016 11:57:45 AM P_ID 080816AR
 SAMPLE ID 162354611 USER ID mansfield_toc1
 WEIGHT (mg) 18.780 18.62 MODE CHN

				SIGNALS
				ZR 15012
CARBON	0.393%	.396		NR 15134
HYDROGEN	0.352%			CR 16186
NITROGEN	-5.828%			HR 18458
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	44 Seconds			

DATE & TIME	8/8/2016 12:02:40 PM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.610	MODE	CHN

				SIGNALS
				ZR 15010
CARBON	2.375%	2.392		NR 15260
HYDROGEN	0.764%			CR 21620
NITROGEN	-5.657%			HR 25858
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	44 Seconds			

DATE & TIME	8/8/2016 12:07:51 PM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.610	MODE	CHN

				SIGNALS
				ZR 14996
CARBON	2.375%	2.392		NR 15192
HYDROGEN	0.764%			CR 19400
NITROGEN	-5.657%			HR 22468
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	44 Seconds			

DATE & TIME	8/8/2016 12:12:53 PM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.610	MODE	CHN

				SIGNALS
				ZR 15004
CARBON	0.988%			NR 15096
HYDROGEN	4.577%			CR 16572
NITROGEN	-11.723%			HR 29311
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	44 Seconds			

DATE & TIME	8/8/2016 12:17:56 PM	P_ID	080816AR
SAMPLE ID	CCB	USER ID	mansfield_toc1
WEIGHT (mg)	89.250	MODE	CHN

				SIGNALS			
		ZR	15030				
CARBON	26.580%	NR	15118				
HYDROGEN	4.319%	CR	15157				
NITROGEN	21.612%	HR	16644				
BLANKS	44	620	342				
K FACTORS	13.656	24.958	0.201				
FILL	COMB	BOOST1	BOOST2				
0	0	0	0				
FILL TIME	44 Seconds						

DATE & TIME	8/8/2016 12:28:46 PM	P_ID	080816AR
SAMPLE ID	162354611	USER ID	mansfield_toc1
WEIGHT (mg)	9.150	MODE	CHN

				SIGNALS			
		ZR	15007				
CARBON	26.580% 26.001	NR	15700				
HYDROGEN	4.319%	CR	45072				
NITROGEN	21.612%	HR	54402				
BLANKS	44	620	342				
K FACTORS	13.656	24.958	0.201				
FILL	COMB	BOOST1	BOOST2				
0	0	0	0				
FILL TIME	44 Seconds						

DATE & TIME	8/8/2016 12:29:48 PM	P_ID	080816AR
SAMPLE ID	162354613	USER ID	mansfield_toc1
WEIGHT (mg)	9.430 9.64	MODE	CHN

				SIGNALS			
		ZR	15027				
CARBON	26.326% 25.153	NR	15827				
HYDROGEN	4.464%	CR	49772				
NITROGEN	24.163%	HR	60899				
BLANKS	44	620	342				
K FACTORS	13.656	24.958	0.201				
FILL	COMB	BOOST1	BOOST2				
0	0	0	0				
FILL TIME	44 Seconds						

DATE & TIME	8/8/2016 12:34:47 PM	P_ID	080816AR
SAMPLE ID	162354614	USER ID	mansfield_toc1
WEIGHT (mg)	11.630 11.53	MODE	CHN

				SIGNALS			
		ZR	15032				
CARBON	3.255% 3.283	NR	15194				
HYDROGEN	0.848%	CR	20408				
NITROGEN	7.700%	HR	23489				

BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	41 Seconds		

DATE & TIME	8/8/2016 12:39:47 PM	P_ID	080816AR
SAMPLE ID	162354614	USER ID	mansfield_toc1
WEIGHT (mg)	15.640 15.50	MODE	CHN

SIGNALS

		ZR	15018
CARBON	2.558% 2.581	NR	15194
HYDROGEN	0.635%	CR	20701
NITROGEN	-5.281%	HR	23799
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	41 Seconds		

DATE & TIME	8/8/2016 12:44:47 PM	P_ID	080816AR
SAMPLE ID	162354615	USER ID	mansfield_toc1
WEIGHT (mg)	11.120 11.04	MODE	CHN

SIGNALS

		ZR	15012
CARBON	3.879% 3.907	NR	15178
HYDROGEN	0.829%	CR	21113
NITROGEN	-7.874%	HR	24034
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	41 Seconds		

DATE & TIME	8/8/2016 12:49:47 PM	P_ID	080816AR
SAMPLE ID	162354615	USER ID	mansfield_toc1
WEIGHT (mg)	6.870 6.82	MODE	CHN

SIGNALS

		ZR	15008
CARBON	2.589% 2.608	NR	15134
HYDROGEN	0.578%	CR	17607
NITROGEN	-15.642%	HR	19218
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	41 Seconds		

DATE & TIME	8/8/2016 12:54:46 PM	P_ID	080816AR
SAMPLE ID	162354912	USER ID	mansfield_toc1
WEIGHT (mg)	7.930 9.81	MODE	CHN

				SIGNALS
				ZR 15010
CARBON	-9.609%	7.768		NR 15299
HYDROGEN	1.755%			CR 25749
NITROGEN	-3.325%			HR 29843
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	41 Seconds			

DATE & TIME	8/8/2016 12:57:25 PM	P_ID	162354913
SAMPLE ID	162354913	USER ID	mansfield_toc1
WEIGHT (mg)	15.510 15.51	MODE	CHN

				SIGNALS
				ZR 15007
CARBON	-9.742%	7.874		NR 15341
HYDROGEN	1.870%			CR 27944
NITROGEN	-4.22%			HR 32970
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	41 Seconds			

DATE & TIME	8/8/2016 1:04:45 PM	P_ID	080816AR
SAMPLE ID	162354913	USER ID	mansfield_toc1
WEIGHT (mg)	15.510 15.55	MODE	CHN

				SIGNALS
				ZR 15016
CARBON	-5.214%	5.201		NR 15331
HYDROGEN	1.151%			CR 26419
NITROGEN	-8.66%			HR 31495
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	41 Seconds			

DATE & TIME	8/8/2016 1:09:44 PM	P_ID	080816AR
SAMPLE ID	162354913	USER ID	mansfield_toc1
WEIGHT (mg)	14.860 14.10	MODE	CHN

				SIGNALS
				ZR 15016
CARBON	-5.009%	4.995		NR 15303
HYDROGEN	1.130%			CR 24964
NITROGEN	-1.946%			HR 29551
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	41 Seconds			

DATE & TIME	8/8/2016 1:14:46 PM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.280	MODE	CHN

		SIGNALS	
		ZR	14999
CARBON	0.982%	NR	15090
HYDROGEN	4.893%	CR	16512
NITROGEN	-12.147%	HR	29686
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	44 Seconds		

DATE & TIME	8/8/2016 1:19:48 PM	P_ID	080816AR
SAMPLE ID	CCB	USER ID	mansfield_toc1
WEIGHT (mg)	55.720	MODE	CHN

		SIGNALS	
		ZR	15030
CARBON	-0.002%	NR	15121
HYDROGEN	0.049%	CR	15146
NITROGEN	-2.241%	HR	16452
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	44 Seconds		

DATE & TIME	8/8/2016 1:43:20 PM	P_ID	080816AR
SAMPLE ID	162354914	USER ID	mansfield_toc1
WEIGHT (mg)	6.480	MODE	CHN

		SIGNALS	
		ZR	15012
CARBON	7.573%	NR	15234
HYDROGEN	1.378%	CR	21111
NITROGEN	-9.827%	HR	23734
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	56 Seconds		

DATE & TIME	8/8/2016 1:47:23 PM	P_ID	080816AR
SAMPLE ID	162354914	USER ID	mansfield_toc1
WEIGHT (mg)	6.480 <i>v. 56</i>	MODE	CHN

		SIGNALS	
		ZR	15008
CARBON	7.573% <i>7.480</i>	NR	15222
HYDROGEN	1.378%	CR	21967
NITROGEN	-9.827%	HR	24815

BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	44 Seconds		

DATE & TIME	8/8/2016 1:52:29 PM	P_ID	080816AR
SAMPLE ID	162354914D	USER ID	mansfield_toc1
WEIGHT (mg)	8.0 8.10	MODE	CHN

SIGNALS

	ZR	15009
CARBON	NR	15260
HYDROGEN	CR	23125
NITROGEN	HR	26350
BLANKS	44	620 342
K FACTORS	13.656	24.958 0.201
FILL	COMB	BOOST1 BOOST2
	0	0 0
FILL TIME	48 Seconds	

DATE & TIME	8/8/2016 1:57:34 PM	P_ID	080816AR
SAMPLE ID	162354914D	USER ID	mansfield_toc1
WEIGHT (mg)	8.0 8.1	MODE	CHN

SIGNALS

	ZR	14996
CARBON	NR	15184
HYDROGEN	CR	19883
NITROGEN	HR	21884
BLANKS	44	620 342
K FACTORS	13.656	24.958 0.201
FILL	COMB	BOOST1 BOOST2
	0	0 0
FILL TIME	47 Seconds	

DATE & TIME	8/8/2016 2:02:38 PM	P_ID	080816AR
SAMPLE ID	162354914MS	USER ID	mansfield_toc1
WEIGHT (mg)	11.190 11.33	MODE	CHN

SIGNALS

	ZR	15005
CARBON	NR	15318
HYDROGEN	CR	28102
NITROGEN	HR	40611
BLANKS	44	620 342
K FACTORS	13.656	24.958 0.201
FILL	COMB	BOOST1 BOOST2
	0	0 0
FILL TIME	46 Seconds	

DATE & TIME	8/8/2016 2:07:41 PM	P_ID	080816AR
SAMPLE ID	162354914MS	USER ID	mansfield_toc1
WEIGHT (mg)	11.220 11.36	MODE	CHN

				SIGNALS
				ZR 15017
CARBON	8.158%	8.057		NR 15321
HYDROGEN	4.183%			CR 27864
NITROGEN	-1.685%			HR 40197
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
	0	0	0	
FILL TIME	45 Seconds			

DATE & TIME	8/8/2016 2:12:41 PM	P_ID	080816AR
SAMPLE ID	162354914MSD	USER ID	mansfield_toc1
WEIGHT (mg)	8.690 8.99	MODE	CHN

				SIGNALS
				ZR 15015
CARBON	8.719%	8.617		NR 15214
HYDROGEN	8.177%			CR 22307
NITROGEN	-12.018%			HR 35008
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
	0	0	0	
FILL TIME	45 Seconds			

DATE & TIME	8/8/2016 2:17:47 PM	P_ID	080816AR
SAMPLE ID	162354914MSD	USER ID	mansfield_toc1
WEIGHT (mg)	8.690 8.80	MODE	CHN

				SIGNALS
				ZR 15034
CARBON	8.466%	8.360		NR 15293
HYDROGEN	5.516%			CR 25384
NITROGEN	-4.752%			HR 37968
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
	0	0	0	
FILL TIME	45 Seconds			

DATE & TIME	8/8/2016 2:22:50 PM	P_ID	080816AR
SAMPLE ID	162363715	USER ID	mansfield_toc1
WEIGHT (mg)	7.700	MODE	CHN

				SIGNALS
				ZR 15036
CARBON	-0.056%			NR 15125
HYDROGEN	0.486%			CR 15110
NITROGEN	-16.347%			HR 16664
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
	0	0	0	
FILL TIME	44 Seconds			

DATE & TIME	8/8/2016 2:27:53 PM	P_ID	080816AR
SAMPLE ID	162354915	USER ID	mansfield_toc1
WEIGHT (mg)	13.130	MODE	CHN

				SIGNALS			
				ZR	15016		
CARBON				NR	15439		
HYDROGEN				CR	33334		
NITROGEN				HR	41699		
BLANKS	44	620	342				
K FACTORS	13.656	24.958	0.201				
FILL	COMB	BOOST1	BOOST2				
	0	0	0				
FILL TIME	44 Seconds						

DATE & TIME	8/8/2016 2:34:53 PM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.250	MODE	CHN

				SIGNALS			
				ZR	15005		
CARBON	-0.34%			NR	15084		
HYDROGEN	0.063%			CR	15080		
NITROGEN	-12.765%			HR	15860		
BLANKS	44	620	342				
K FACTORS	13.656	24.958	0.201				
FILL	COMB	BOOST1	BOOST2				
	0	0	0				
FILL TIME	44 Seconds						

DATE & TIME	8/8/2016 2:39:55 PM	P_ID	080816AR
SAMPLE ID	CCB	USER ID	mansfield_toc1
WEIGHT (mg)	65.650	MODE	CHN

				SIGNALS			
				ZR	15005		
CARBON	-0.01%			NR	15092		
HYDROGEN	-0.11%			CR	15124		
NITROGEN	-1.932%			HR	15562		
BLANKS	44	620	342				
K FACTORS	13.656	24.958	0.201				
FILL	COMB	BOOST1	BOOST2				
	0	0	0				
FILL TIME	43 Seconds						

DATE & TIME	8/8/2016 2:46:57 PM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.0	MODE	CHN

				SIGNALS			
				ZR	14999		
CARBON	0.899%			NR	15112		
HYDROGEN	4.995%			CR	16383		
NITROGEN	-11.393%			HR	29469		

BLANKS 44 620 342
 K FACTORS 13.656 24.958 0.201
 FILL COMB BOOST1 BOOST2
 0 0 0 0
 FILL TIME 57 Seconds

DATE & TIME 8/8/2016 2:51:59 PM P_ID
 SAMPLE ID CCB USER ID
 WEIGHT (mg) 38.700 MODE

SIGNALS
 ZR 15050
 NR 15111
 CR 15143
 HR 16339

CARBON
 HYDROGEN
 NITROGEN
 BLANKS 44 620 342
 K FACTORS 13.656 24.958 0.201
 FILL COMB BOOST1 BOOST2
 0 0 0 0
 FILL TIME 43 Seconds

DATE & TIME 8/8/2016 3:02:35 PM P_ID
 SAMPLE ID 162354915 USER ID
 WEIGHT (mg) 14.300 14.49 MODE

SIGNALS
 ZR 15012
 NR 15334
 CR 26866
 HR 32307

CARBON 5.889% 5.806
 HYDROGEN 1.351%
 NITROGEN -0.696%
 BLANKS 44 620 342
 K FACTORS 13.656 24.958 0.201
 FILL COMB BOOST1 BOOST2
 0 0 0 0
 FILL TIME 50 Seconds

DATE & TIME 8/8/2016 3:07:46 PM P_ID 080816AR
 SAMPLE ID 162354915 USER ID mansfield_toc1
 WEIGHT (mg) 10.910 11.05 MODE CHN

SIGNALS
 ZR 15027
 NR 15286
 CR 23896
 HR 28159

CARBON 5.749% 5.676
 HYDROGEN 1.338%
 NITROGEN -3.785%
 BLANKS 44 620 342
 K FACTORS 13.656 24.958 0.201
 FILL COMB BOOST1 BOOST2
 0 0 0 0
 FILL TIME 52 Seconds

DATE & TIME 8/8/2016 3:12:58 PM P_ID 080816AR
 SAMPLE ID 162354916 USER ID mansfield_toc1
 WEIGHT (mg) 7.410 12.60 MODE CHN

		SIGNALS		
		ZR	15023	
CARBON	23.378% 13.748	NR	15715	
HYDROGEN	3.797%	CR	39415	
NITROGEN	23.499%	HR	47057	
BLANKS	44 620 342			
K FACTORS	13.656 24.958 0.201			
FILL	COMB BOOST1 BOOST2			
	0 0 0 0			
FILL TIME	54 Seconds			

DATE & TIME	8/9/2016 3:18:11 PM	P_ID	080816AR
SAMPLE ID	162354917	USER ID	mansfield_toc1
WEIGHT (mg)	7.300 8.85	MODE	CHN

		SIGNALS		
		ZR	15028	
CARBON	22.166% 13.040	NR	15591	
HYDROGEN	3.671%	CR	33585	
NITROGEN	18.541%	HR	39638	
BLANKS	44 620 342			
K FACTORS	13.656 24.958 0.201			
FILL	COMB BOOST1 BOOST2			
	0 0 0 0			
FILL TIME	54 Seconds			

DATE & TIME	8/8/2016 3:23:24 PM	P_ID	080816AR
SAMPLE ID	162354917	USER ID	mansfield_toc1
WEIGHT (mg)	7.300 8.85	MODE	CHN

		SIGNALS		
		ZR	15017	
CARBON	6.935% 5.720	NR	15277	
HYDROGEN	1.411%	CR	22234	
NITROGEN	-5.588%	HR	25424	
BLANKS	44 620 342			
K FACTORS	13.656 24.958 0.201			
FILL	COMB BOOST1 BOOST2			
	0 0 0 0			
FILL TIME	55 Seconds			

DATE & TIME	8/8/2016 3:28:39 PM	P_ID	080816AR
SAMPLE ID	162354917	USER ID	mansfield_toc1
WEIGHT (mg)	9.520 11.54	MODE	CHN

		SIGNALS		
		ZR	15008	
CARBON	6.989% 5.766	NR	15303	
HYDROGEN	1.381%	CR	24433	
NITROGEN	-2.456%	HR	28335	
BLANKS	44 620 342			
K FACTORS	13.656 24.958 0.201			
FILL	COMB BOOST1 BOOST2			
	0 0 0 0			
FILL TIME	56 Seconds			

DATE & TIME	8/8/2016 3:33:47 PM	P_ID	080816AR
SAMPLE ID	162407401	USER ID	mansfield_toc1
WEIGHT (mg)	23.380	MODE	CHN

SIGNALS

	ZR	15001
CARBON	1.432%	NR 15248
HYDROGEN	0.496%	CR 19864
NITROGEN	-2.022%	HR 23378
BLANKS	44	620 342
K FACTORS	13.656	24.958 0.201
FILL	COMB	BOOST1 BOOST2
	0	0 0
FILL TIME	50 Seconds	

DATE & TIME	8/8/2016 3:35:55 PM	P_ID	080816AR
SAMPLE ID	162407401	USER ID	mansfield_toc1
WEIGHT (mg)	14.151	MODE	CHN

SIGNALS

	ZR	15018
CARBON	1.567%	NR 15188
HYDROGEN	0.467%	CR 18260
NITROGEN	-6.048%	HR 20529
BLANKS	44	620 342
K FACTORS	13.656	24.958 0.201
FILL	COMB	BOOST1 BOOST2
	0	0 0
FILL TIME	49 Seconds	

DATE & TIME	8/8/2016 3:43:59 PM	P_ID	080816AR
SAMPLE ID	162407402	USER ID	mansfield_toc1
WEIGHT (mg)	10.900	MODE	CHN

SIGNALS

	ZR	15010
CARBON	2.508%	NR 15124
HYDROGEN	0.544%	CR 18901
NITROGEN	-10.407%	HR 21000
BLANKS	44	620 342
K FACTORS	13.656	24.958 0.201
FILL	COMB	BOOST1 BOOST2
	0	0 0
FILL TIME	46 Seconds	

DATE & TIME	8/8/2016 3:49:03 PM	P_ID	080816AR
SAMPLE ID	162407402	USER ID	mansfield_toc1
WEIGHT (mg)	15.730	MODE	CHN

SIGNALS

	ZR	15007
CARBON	1.771%	NR 15142
HYDROGEN	0.488%	CR 18990
NITROGEN	-6.547%	HR 21525

BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	45 Seconds		

DATE & TIME	8/8/2016 3:54:04 PM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.340	MODE	CHN

SIGNALS

	ZR	14984	
CARBON	NR	15069	
HYDROGEN	CR	1643B	
NITROGEN	HR	29422	
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	43 Seconds		

DATE & TIME	8/8/2016 4:09:36 PM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	12.540	MODE	CHN

SIGNALS

	ZR	15020	
CARBON	NR	15129	
HYDROGEN	CR	15172	
NITROGEN	HR	16305	
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	55 Seconds		

DATE & TIME	8/8/2016 4:09:36 PM	P_ID	080816AR
SAMPLE ID	162407403	USER ID	mansfield_toc1
WEIGHT (mg)	14.840	MODE	CHN

SIGNALS

	ZR	15009	
CARBON	NR	15292	
HYDROGEN	CR	45102	
NITROGEN	HR	47653	
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	48 Seconds		

DATE & TIME	8/8/2016 4:20:09 PM	P_ID	080816AR
SAMPLE ID	162407403	USER ID	mansfield_toc1
WEIGHT (mg)	10.330	MODE	CHN

				SIGNALS
				ZR 14988
CARBON	21.819%			NR 15234
HYDROGEN	0.639%			CR 46058
NITROGEN	-4.624%			HR 48326
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
	0	0	0	
FILL TIME	41 Seconds			

DATE & TIME	8/8/2016 4:25:06 PM	P_ID	080816AR
SAMPLE ID	162407404	USER ID	mansfield_toc1
WEIGHT (mg)	6.280	MODE	CHN

				SIGNALS
				ZR 14992
CARBON	29.250%			NR 15351
HYDROGEN	2.139%			CR 40480
NITROGEN	1.347%			HR 44453
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
	0	0	0	
FILL TIME	38 Seconds			

DATE & TIME	8/8/2016 4:33:01 PM	P_ID	080816AR
SAMPLE ID	162407405	USER ID	mansfield_toc1
WEIGHT (mg)	6.410	MODE	CHN

				SIGNALS
				ZR 14997
CARBON	20.224%			NR 15408
HYDROGEN	2.141%			CR 39117
NITROGEN	1.182%			HR 44235
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
	0	0	0	
FILL TIME	37 Seconds			

DATE & TIME	8/8/2016 4:34:50 PM	P_ID	080816AR
SAMPLE ID	162407405	USER ID	mansfield_toc1
WEIGHT (mg)	10.310	MODE	CHN

				SIGNALS
				ZR 15082
CARBON	24.039%			NR 15451
HYDROGEN	2.926%			CR 49341
NITROGEN	1.303%			HR 57491
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
	0	0	0	
FILL TIME	30 Seconds			

DATE & TIME	8/8/2016 4:39:38 PM	P_ID	080816AR
SAMPLE ID	162407405	USER ID	mansfield_toc1
WEIGHT (mg)	8.450	MODE	CHN

		SIGNALS	
		ZR	15016
CARBON	23.386%	NR	15341
HYDROGEN	3.023%	CR	42371
NITROGEN	-1.001%	HR	49366
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	30 Seconds		

DATE & TIME	8/8/2016 4:44:27 PM	P_ID	080816AR
SAMPLE ID	162407406	USER ID	mansfield_toc1
WEIGHT (mg)	7.540	MODE	CHN

		SIGNALS	
		ZR	14992
CARBON	24.672%	NR	15063
HYDROGEN	1.174%	CR	40477
NITROGEN	-17.905%	HR	43304
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	30 Seconds		

DATE & TIME	8/8/2016 4:49:16 PM	P_ID	080816AR
SAMPLE ID	162407406	USER ID	mansfield_toc1
WEIGHT (mg)	6.540	MODE	CHN

		SIGNALS	
		ZR	14964
CARBON	30.031%	NR	15088
HYDROGEN	1.203%	CR	41953
NITROGEN	-16.584%	HR	44536
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	30 Seconds		

DATE & TIME	8/8/2016 4:54:05 PM	P_ID	080816AR
SAMPLE ID	162407402	USER ID	mansfield_toc1
WEIGHT (mg)	13.210	MODE	CHN

		SIGNALS	
		ZR	14982
CARBON	5.043%	NR	15064
HYDROGEN	0.452%	CR	24206
NITROGEN	-9.792%	HR	26317

BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	30 Seconds		

DATE & TIME	8/8/2016 4:58:54 PM	P_ID	080816AR
SAMPLE ID	162407402	USER ID	mansfield_toc1
WEIGHT (mg)	11.190	MODE	CHN

SIGNALS

ZR	14989
NR	15065
CR	21455
HR	23500

CARBON	11.51%		
HYDROGEN	11.51%		
NITROGEN	11.51%		
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	31 Seconds		

DATE & TIME	8/8/2016 5:03:43 PM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.370	MODE	CHN

SIGNALS

ZR	14985
NR	15051
CR	22636
HR	35460

CARBON	5.325%		
HYDROGEN	4.715%		
NITROGEN	13.241%		
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	31 Seconds		

DATE & TIME	8/8/2016 5:08:33 PM	P_ID	080816AR
SAMPLE ID	CCB	USER ID	mansfield_toc1
WEIGHT (mg)	106.900	MODE	CHN

SIGNALS

ZR	15004
NR	15059
CR	16768
HR	17638

CARBON	0.114%		
HYDROGEN	0.009%		
NITROGEN	1.336%		
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	31 Seconds		

DATE & TIME	8/9/2016 7:50:41 AM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.150	MODE	CHN

				SIGNALS
				ZR 15015
CARBON	1.167%			NR 15959
HYDROGEN	4.687%			CR 17621
NITROGEN	29.508%			HR 30114
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	30 Seconds			

DATE & TIME	8/9/2016 7:57:59 AM	P_ID	080816AR
SAMPLE ID	CCB	USER ID	mansfield_toc1
WEIGHT (mg)	02.010	MODE	CHN

				SIGNALS
				ZR 15023
CARBON	0.024%			NR 15266
HYDROGEN	0.026%			CR 15608
NITROGEN	.535%			HR 16836
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	30 Seconds			

DATE & TIME	8/9/2016 8:19:55 AM	P_ID	080816AR
SAMPLE ID	162354615	USER ID	mansfield_toc1
WEIGHT (mg)	0.240	MODE	CHN

				SIGNALS
				ZR 14995
CARBON	2.481% 2.499			NR 15162
HYDROGEN	0.517%			CR 18586
NITROGEN	-12.740%			HR 20642
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	30 Seconds			

DATE & TIME	8/9/2016 8:23:27 AM	P_ID	080816AR
SAMPLE ID	162354615	USER ID	mansfield_toc1
WEIGHT (mg)	0.240 0.18	MODE	CHN

				SIGNALS
				ZR 15007
CARBON	2.481% 2.499			NR 15138
HYDROGEN	0.517%			CR 17974
NITROGEN	-12.740%			HR 19657
BLANKS	44	620	342	
K FACTORS	13.656	24.958	0.201	
FILL	COMB	BOOST1	BOOST2	
0	0	0	0	
FILL TIME	30 Seconds			

DATE & TIME	8/9/2016 8:28:16 AM	P_ID	080816AR
SAMPLE ID	162407403	USER ID	mansfield_toc1
WEIGHT (mg)	7.700	MODE	CHN

SIGNALS

	ZR	15004	
CARBON	15.616%	NR	15203
HYDROGEN	0.563%	CR	31667
NITROGEN	-9.240%	HR	33368
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	30 Seconds		

DATE & TIME	8/9/2016 8:28:16 AM	P_ID	080816AR
SAMPLE ID	162407403	USER ID	mansfield_toc1
WEIGHT (mg)	7.700	MODE	CHN

SIGNALS

	ZR	15020	
CARBON	21.246%	NR	15224
HYDROGEN	0.515%	CR	32502
NITROGEN	-11.558%	HR	33885
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	30 Seconds		

DATE & TIME	8/9/2016 8:28:16 AM	P_ID	080816AR
SAMPLE ID	162407403	USER ID	mansfield_toc1
WEIGHT (mg)	7.700	MODE	CHN

SIGNALS

	ZR	15010	
CARBON	17.557%	NR	15294
HYDROGEN	2.026%	CR	28597
NITROGEN	-5.218%	HR	32013
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	30 Seconds		

DATE & TIME	8/9/2016 8:42:42 AM	P_ID	080816AR
SAMPLE ID	162407404	USER ID	mansfield_toc1
WEIGHT (mg)	6.200	MODE	CHN

SIGNALS

	ZR	15017	
CARBON	14.535%	NR	15312
HYDROGEN	1.928%	CR	27662
NITROGEN	-3.771%	HR	31265

BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	30 Seconds		

DATE & TIME	8/9/2016 8:58:13 AM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.260	MODE	CHN

SIGNALS

		ZR	14996
CARBON	1.517%	NR	15080
HYDROGEN	4.375%	CR	17250
NITROGEN	-12.511%	HR	29074
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	31 Seconds		

DATE & TIME	8/9/2016 9:00:01 AM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.260	MODE	CHN

SIGNALS

		ZR	15030
CARBON	0.037%	NR	15104
HYDROGEN	0.024%	CR	15528
NITROGEN	-12.511%	HR	16590
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	31 Seconds		

DATE & TIME	8/9/2016 9:28:43 AM	P_ID	080816AR
SAMPLE ID	CCV	USER ID	mansfield_toc1
WEIGHT (mg)	10.260	MODE	CHN

SIGNALS

		ZR	14997
CARBON	1.031%	NR	15084
HYDROGEN	4.566%	CR	16573
NITROGEN	-12.365%	HR	28885
BLANKS	44	620	342
K FACTORS	13.656	24.958	0.201
FILL	COMB	BOOST1	BOOST2
	0	0	0
FILL TIME	36 Seconds		

DATE & TIME	8/9/2016 9:33:33 AM	P_ID	080816AR
SAMPLE ID	CCB	USER ID	mansfield_toc1
WEIGHT (mg)	59.910	MODE	CHN

				SIGNALS	
				ZR	15028
CARBON	0.005%			NR	15096
HYDROGEN	0.030%			CR	15180
NITROGEN	-2.275%			HR	16245
BLANKS	44	620	342		
K FACTORS	13.656	24.958	0.201		
FILL	COMB	BOOST1	BOOST2		
0	0	0	0		
FILL TIME	31 Seconds				

DATE & TIME	8/9/2016 8:42:23 AM	P_ID	080916AR
RUN TYPE	K1	USER ID	alpha
WEIGHT (mg)	10.200	MODE	CHN

SIGNALS			
ZR	26563	AVERAGE RESULTS	
KC	19.647	NR	27595
KH	-039	CR	29637
KN	0.851	HR	29543
BLANKS	38	-74	19
K FACTORS	1.0%	5.03%	11.67%
FILL TIME	33 Seconds		
NUMBER	MESSAGE		
8	CHECK FOR SAMPLE DROP		

DATE & TIME	8/9/2016 8:49:17 AM	P_ID	080916AR
RUN TYPE	BLANK	USER ID	alpha
		MODE	CHN

SIGNALS			
ZR	26506	AVERAGE RESULTS	
CARBON	35	NR	26774
HYDROGEN	-66	CR	26809
NITROGEN	268	HR	26743
FILL TIME	27 Seconds		

DATE & TIME	8/9/2016 8:54:14 AM	P_ID	080916AR
SAMPLE ID	1000	USER ID	alpha
WEIGHT (mg)	10.080	MODE	CHN

SIGNALS			
ZR	26482	AVERAGE RESULTS	
CARBON	0.077%	NR	26563
HYDROGEN	2.572%	CR	26549
NITROGEN	0.102%	HR	26490
BLANKS	36	-70	19
K FACTORS	19.660	0.054	1.074
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	27 Seconds		

DATE & TIME	8/9/2016 8:59:09 AM	P_ID	080916AR
SAMPLE ID	1000	USER ID	alpha
WEIGHT (mg)	10.080	MODE	CHN

SIGNALS			
ZR	26471	AVERAGE RESULTS	
CARBON	0.077%	NR	26501
HYDROGEN	2.572%	CR	26690
NITROGEN	0.102%	HR	26634
BLANKS	36	-70	19
K FACTORS	19.660	0.054	1.074

FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	28 Seconds		

DATE & TIME	8/10/2016 9:14:48 AM	P_ID	080916AR
SAMPLE ID	40000	USER ID	alpha
WEIGHT (mg)	10.154	MODE	CHN

SIGNALS

ZR	26464
NR	26480
CR	27470
HR	27424

CARBON	0.411%
HYDROGEN	1.111%
NITROGEN	0.028%
BLANKS	36 -70 19
K FACTORS	19.660 0.054 1.074
FILL	COMB BOOST1 BOOST2
1	2 1 1
FILL TIME	28 Seconds

DATE & TIME	8/10/2016 9:15:16 AM	P_ID	080916AR
SAMPLE ID	40000	USER ID	alpha
WEIGHT (mg)	10.154	MODE	CHN

SIGNALS

ZR	26461
NR	26472
CR	28524
HR	28483

CARBON	0.992%
HYDROGEN	5.194%
NITROGEN	-0.72%
BLANKS	36 -70 19
K FACTORS	19.660 0.054 1.074
FILL	COMB BOOST1 BOOST2
1	2 1 1
FILL TIME	27 Seconds

DATE & TIME	8/10/2016 9:17:41 AM	P_ID	080916AR
SAMPLE ID	40000	USER ID	alpha
WEIGHT (mg)	10.128	MODE	CHN

SIGNALS

ZR	26469
NR	26477
CR	30559
HR	30523

CARBON	1.994%
HYDROGEN	6.101%
NITROGEN	-0.99%
BLANKS	36 -70 19
K FACTORS	19.660 0.054 1.074
FILL	COMB BOOST1 BOOST2
1	2 1 1
FILL TIME	27 Seconds

DATE & TIME	8/9/2016 9:18:31 AM	P_ID	080916AR
SAMPLE ID	40000	USER ID	alpha
WEIGHT (mg)	10.650	MODE	CHN

SIGNALS

ZR	26479
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CARBON	3.931%		NR	26554
HYDROGEN	8.520%		CR	34821
NITROGEN	0.490%		HR	34800
BLANKS	36	-70	19	
K FACTORS	19.660	0.054	1.074	
FILL	COMB	BOOST1	BOOST2	
	2	1	1	
FILL TIME	27 Seconds			

DATE & TIME	8/9/2016 9:25:41 AM	P_ID	080916AR
SAMPLE ID	HICV	USER ID	alpha
WEIGHT (mg)	51.270	MODE	CHN

		SIGNALS	
		ZR	26505
CARBON	0.985%	NR	26512
HYDROGEN	8.335%	CR	28527
NITROGEN	-1.09%	HR	28503
BLANKS	36	-70	19
K FACTORS	19.660	0.054	1.074
FILL	COMB	BOOST1	BOOST2
	2	1	1
FILL TIME	27 Seconds		

DATE & TIME	8/9/2016 9:37:41 AM	P_ID	080916AR
SAMPLE ID	HICV	USER ID	alpha
WEIGHT (mg)	51.450	MODE	CHN

		SIGNALS	
		ZR	26500
CARBON	-0.001%	NR	26500
HYDROGEN	0.833%	CR	26521
NITROGEN	-0.27%	HR	26480
BLANKS	36	-70	19
K FACTORS	19.660	0.054	1.074
FILL	COMB	BOOST1	BOOST2
	2	1	1
FILL TIME	27 Seconds		

DATE & TIME	8/9/2016 9:49:30 AM	P_ID	080916AR
SAMPLE ID	HICV	USER ID	alpha
WEIGHT (mg)	51.270	MODE	CHN

		SIGNALS	
		ZR	26554
CARBON	3.895%	NR	26564
HYDROGEN	3.034%	CR	65858
NITROGEN	-0.16%	HR	65872
BLANKS	36	-70	19
K FACTORS	19.660	0.054	1.074
FILL	COMB	BOOST1	BOOST2
	2	1	1
FILL TIME	30 Seconds		

DATE & TIME	8/9/2016 10:01:28 AM	P_ID	080916AR
SAMPLE ID	SRM1944	USER ID	alpha
WEIGHT (mg)	8.660	MODE	CHN

SIGNALS

	ZR	26549
CARBON	NR	26693
HYDROGEN	CR	33814
NITROGEN	HR	37543
BLANKS	36	-70 19
K FACTORS	19.660	0.054 1.074
FILL	COMB	BOOST1 BOOST2
	2	1 1
FILL TIME	27 Seconds	

DATE & TIME	8/9/2016 10:08:16 AM	P_ID	080916AR
SAMPLE ID	SRM1944	USER ID	alpha
WEIGHT (mg)	8.660	MODE	CHN

SIGNALS

	ZR	26522
CARBON	NR	26523
HYDROGEN	CR	26777
NITROGEN	HR	26723
BLANKS	36	-70 19
K FACTORS	19.660	0.054 1.074
FILL	COMB	BOOST1 BOOST2
	2	1 1
FILL TIME	27 Seconds	

DATE & TIME	8/9/2016 10:11:12 AM	P_ID	080916AR
SAMPLE ID	SRM1944	USER ID	alpha
WEIGHT (mg)	7.580	MODE	CHN

SIGNALS

	ZR	26507
CARBON	NR	26631
HYDROGEN	CR	33363
NITROGEN	HR	33331
BLANKS	36	-70 19
K FACTORS	19.660	0.054 1.074
FILL	COMB	BOOST1 BOOST2
	2	1 1
FILL TIME	27 Seconds	

DATE & TIME	8/9/2016 10:16:07 AM	P_ID	080916AR
SAMPLE ID	MB	USER ID	alpha
WEIGHT (mg)	86.260	MODE	CHN

SIGNALS

	ZR	26528
CARBON	NR	26529
HYDROGEN	CR	26673
NITROGEN	HR	26615
BLANKS	36	-70 19

K FACTORS 19.660 0.054 1.074
 FILL COMB BOOST1 BOOST2
 1 2 1 1
 FILL TIME 27 Seconds

DATE & TIME 8/9/2016 10:32:21 AM P_ID 080916AR
 SAMPLE ID 162354622 USER ID alpha
 WEIGHT (mg) 5.900 MODE CHN

SIGNALS
 ZR 26549
 NR 26799
 CR 38332
 HR 38299
 CARBON 9.011%
 HYDROGEN 10.558%
 NITROGEN 3.314%
 BLANKS 36 -70 19
 K FACTORS 19.660 0.054 1.074
 FILL COMB BOOST1 BOOST2
 1 2 1 1
 FILL TIME 27 Seconds

DATE & TIME 8/9/2016 10:32:21 AM P_ID 080916AR
 SAMPLE ID 162354622 USER ID alpha
 WEIGHT (mg) 5.900 MODE CHN

SIGNALS
 ZR 26551
 NR 26769
 CR 36995
 HR 37009
 CARBON 8.785%
 HYDROGEN 26.365%
 NITROGEN 3.140%
 BLANKS 36 -70 19
 K FACTORS 19.660 0.054 1.074
 FILL COMB BOOST1 BOOST2
 1 2 1 1
 FILL TIME 27 Seconds

DATE & TIME 8/9/2016 10:37:12 AM P_ID 080916AR
 SAMPLE ID 162354621 USER ID alpha
 WEIGHT (mg) 5.340 MODE CHN

SIGNALS
 ZR 26556
 NR 26728
 CR 34812
 HR 34785
 CARBON 7.666%
 HYDROGEN 14.912%
 NITROGEN 2.668%
 BLANKS 36 -70 19
 K FACTORS 19.660 0.054 1.074
 FILL COMB BOOST1 BOOST2
 1 2 1 1
 FILL TIME 27 Seconds

DATE & TIME 8/9/2016 10:42:04 AM P_ID 080916AR
 SAMPLE ID 162354621 USER ID alpha
 WEIGHT (mg) 6.750 MODE CHN

				SIGNALS
				ZR 26572
CARBON	7.087%			NR 26778
HYDROGEN	10.974%			CR 36219
NITROGEN	2.579%			HR 36189
BLANKS	36	-70	19	
K FACTORS	19.660	0.054	1.074	
FILL	COMB	BOOST1	BOOST2	
	2	1	1	
FILL TIME	28 Seconds			

DATE & TIME	8/9/2016 10:47:12 AM	P_ID	080916AR
SAMPLE ID	162354621D	USER ID	alpha
WEIGHT (mg)	8.220	MODE	CHN

				SIGNALS
				ZR 26580
CARBON	7.185%			NR 26795
HYDROGEN	6.090%			CR 36281
NITROGEN	2.728%			HR 36233
BLANKS	36	-70	19	
K FACTORS	19.660	0.054	1.074	
FILL	COMB	BOOST1	BOOST2	
	2	1	1	
FILL TIME	35 Seconds			

DATE & TIME	8/9/2016 10:52:00 AM	P_ID	080916AR
SAMPLE ID	162354621D	USER ID	alpha
WEIGHT (mg)	8.220	MODE	CHN

				SIGNALS
				ZR 26588
CARBON	7.404%			NR 26880
HYDROGEN	5.857%			CR 38881
NITROGEN	3.092%			HR 38837
BLANKS	36	-70	19	
K FACTORS	19.660	0.054	1.074	
FILL	COMB	BOOST1	BOOST2	
	2	1	1	
FILL TIME	34 Seconds			

DATE & TIME	8/9/2016 10:56:51 AM	P_ID	080916AR
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	10.300	MODE	CHN

				SIGNALS
				ZR 26606
CARBON	1.011%			NR 26614
HYDROGEN	10.248%			CR 28697
NITROGEN	-0.99%			HR 28684
BLANKS	36	-70	19	
K FACTORS	19.660	0.054	1.074	
FILL	COMB	BOOST1	BOOST2	
	2	1	1	
FILL TIME	28 Seconds			

DATE & TIME	8/9/2016 11:01:42 AM	P_ID	080916AR
SAMPLE ID	CCB	USER ID	alpha
WEIGHT (mg)	76.360	MODE	CHN

SIGNALS

	ZR	26608
CARBON	NR	26613
HYDROGEN	CR	26695
NITROGEN	HR	26641
BLANKS	36	-70 19
K FACTORS	19.660	0.054 1.074
FILL	COMB	BOOST1 BOOST2
	1	2 1 1
FILL TIME	28 Seconds	

DATE & TIME	8/9/2016 11:07:11 AM	P_ID	080916AR
SAMPLE ID	162354621MSD	USER ID	alpha
WEIGHT (mg)	5.528	MODE	CHN

SIGNALS

	ZR	26607
CARBON	NR	26804
HYDROGEN	CR	37579
NITROGEN	HR	37583
BLANKS	36	-70 19
K FACTORS	19.660	0.054 1.074
FILL	COMB	BOOST1 BOOST2
	1	2 1 1
FILL TIME	28 Seconds	

DATE & TIME	8/9/2016 11:12:12 AM	P_ID	080916AR
SAMPLE ID	162354621MSD	USER ID	alpha
WEIGHT (mg)	5.528	MODE	CHN

SIGNALS

	ZR	26624
CARBON	NR	26797
HYDROGEN	CR	36688
NITROGEN	HR	36689
BLANKS	36	-70 19
K FACTORS	19.660	0.054 1.074
FILL	COMB	BOOST1 BOOST2
	1	2 1 1
FILL TIME	28 Seconds	

DATE & TIME	8/9/2016 11:16:28 AM	P_ID	080916AR
SAMPLE ID	162354621MSD	USER ID	alpha
WEIGHT (mg)	5.900	MODE	CHN

SIGNALS

	ZR	26625
CARBON	NR	26823
HYDROGEN	CR	37850
NITROGEN	HR	37845

BLANKS	36	-70	19
K FACTORS	19.660	0.054	1.074
FILL	COMB	BOOST1	BOOST2
	2	1	1
FILL TIME	28 Seconds		

DATE & TIME	8/9/2016 11:21:00 AM	P_ID	080916AR
SAMPLE ID	162354620	USER ID	alpha
WEIGHT (mg)	8.370	MODE	CHN

SIGNALS

	ZR	26626	
CARBON	9.281%	NR	26835
HYDROGEN	16.193%	CR	38348
NITROGEN	2.813%	HR	38333
BLANKS	36	-70	19
K FACTORS	19.660	0.054	1.074
FILL	COMB	BOOST1	BOOST2
	2	1	1
FILL TIME	28 Seconds		

DATE & TIME	8/9/2016 11:25:40 AM	P_ID	080916AR
SAMPLE ID	162354620	USER ID	alpha
WEIGHT (mg)	8.370	MODE	CHN

SIGNALS

	ZR	26629	
CARBON	7.884%	NR	26698
HYDROGEN	5.111%	CR	30410
NITROGEN	1.511%	HR	30373
BLANKS	36	-70	19
K FACTORS	19.660	0.054	1.074
FILL	COMB	BOOST1	BOOST2
	2	1	1
FILL TIME	28 Seconds		

DATE & TIME	8/9/2016 11:30:41 AM	P_ID	080916AR
SAMPLE ID	162354620	USER ID	alpha
WEIGHT (mg)	8.370	MODE	CHN

SIGNALS

	ZR	26629	
CARBON	2.168%	NR	26696
HYDROGEN	5.089%	CR	30299
NITROGEN	0.534%	HR	30252
BLANKS	36	-70	19
K FACTORS	19.660	0.054	1.074
FILL	COMB	BOOST1	BOOST2
	2	1	1
FILL TIME	29 Seconds		

DATE & TIME	8/9/2016 11:35:32 AM	P_ID	080916AR
SAMPLE ID	162354616	USER ID	alpha
WEIGHT (mg)	11.080	MODE	CHN

				SIGNALS
				ZR 26631
CARBON	1.508%			NR 26700
HYDROGEN	3.176%			CR 30022
NITROGEN	0.420%			HR 29971
BLANKS	36	-70	19	
K FACTORS	19.660	0.054	1.074	
FILL	COMB	BOOST1	BOOST2	
	1	2	1	1
FILL TIME	28 Seconds			

DATE & TIME	8/9/2016 11:40:23 AM	P_ID	080916AR
SAMPLE ID	162354616	USER ID	alpha
WEIGHT (mg)	9.170	MODE	CHN

				SIGNALS
				ZR 26641
CARBON	2.006%			NR 26701
HYDROGEN	5.049%			CR 30353
NITROGEN	0.416%			HR 30308
BLANKS	36	-70	19	
K FACTORS	19.660	0.054	1.074	
FILL	COMB	BOOST1	BOOST2	
	1	2	1	1
FILL TIME	28 Seconds			

DATE & TIME	8/9/2016 11:45:15 AM	P_ID	080916AR
SAMPLE ID	162354609	USER ID	alpha
WEIGHT (mg)	9.570	MODE	CHN

				SIGNALS
				ZR 26639
CARBON	2.381%			NR 26728
HYDROGEN	4.644%			CR 31243
NITROGEN	0.681%			HR 31197
BLANKS	36	-70	19	
K FACTORS	19.660	0.054	1.074	
FILL	COMB	BOOST1	BOOST2	
	2	1	1	
FILL TIME	28 Seconds			

DATE & TIME	8/9/2016 11:50:02 AM	P_ID	080916AR
SAMPLE ID	162354609	USER ID	alpha
WEIGHT (mg)	9.230	MODE	CHN

				SIGNALS
				ZR 26633
CARBON	2.133%			NR 26716
HYDROGEN	6.220%			CR 30622
NITROGEN	0.646%			HR 30583
BLANKS	36	-70	19	
K FACTORS	19.660	0.054	1.074	
FILL	COMB	BOOST1	BOOST2	
	1	2	1	
FILL TIME	28 Seconds			