LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 6

2025

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LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX

VOLUME 6

2025

A.	Title:	(Cont'd) Report – Appendix C labs File 2 to Draft Quarterly Evaluation Report, 2nd Quarter (April–June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
	Author(s):	PCI-Bhate JV
	Recipient:	Longhorn Army Ammunition Plant
	Date:	March 7, 2025
	Bate Stamp:	01297808–01299765

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: HG04_470273
Instrument: HG04
Method: SW7470A

ICV	Date: 24-Jun-2024 11:25		Seq: 8094599	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.09	102	90-110	

CCV1	Date: 24-Jun-2024 11:31		Seq: 8094602	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5	100	90-110	

CCV2	Date: 24-Jun-2024 11:58		Seq: 8094614	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.02	100	90-110	

CCV3	Date: 24-Jun-2024 12:25		Seq: 8094626	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

CCV4	Date: 24-Jun-2024 12:53		Seq: 8094638	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5	100	90-110	

CCV5	Date: 24-Jun-2024 13:19		Seq: 8094650	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV6	Date: 24-Jun-2024 13:40		Seq: 8094662	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.91	98	90-110	

CCV7	Date: 24-Jun-2024 14:05		Seq: 8094674	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.95	99	90-110	

CCV8	Date: 24-Jun-2024 14:34		Seq: 8094698	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

CCV9	Date: 24-Jun-2024 15:00		Seq: 8094710	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.85	97	90-110	

CCV10	Date: 24-Jun-2024 15:30		Seq: 8094722	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.86	97	90-110	

CCV11	Date: 24-Jun-2024 15:53		Seq: 8094791	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.81	96	90-110	

ALS Houston, US

Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

ICV	Date: 25-Jun-2024 11:01	Seq: 8096755	ICV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.737	102	90-110	
Antimony	100	98.221	98	90-110	
Arsenic	100	98.763	99	90-110	
Barium	100	97.648	98	90-110	
Beryllium	100	95.306	95	90-110	
Cadmium	100	97.871	98	90-110	
Calcium	10000	9802.618	98	90-110	
Chromium	100	98.598	99	90-110	
Cobalt	100	98.666	99	90-110	
Copper	100	99.362	99	90-110	
Iron	10000	9861.289	99	90-110	
Lead	100	98.592	99	90-110	
Magnesium	10000	9883.176	99	90-110	
Manganese	100	97.656	98	90-110	
Nickel	100	99.46	100	90-110	
Potassium	10000	9921.599	99	90-110	
Selenium	100	97.877	98	90-110	
Silver	100	99.433	99	90-110	
Sodium	10000	9777.302	98	90-110	
Thallium	100	97.837	98	90-110	
Vanadium	100	98.092	98	90-110	
Zinc	100	99.966	100	90-110	

ICV	Date: 25-Jun-2024 16:18	Seq: 8097907	ICV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.7	102	90-110	
Antimony	100	99.177	99	90-110	
Arsenic	100	100.233	100	90-110	
Barium	100	98.472	99	90-110	
Beryllium	100	99.663	100	90-110	
Cadmium	100	98.208	98	90-110	
Calcium	10000	9861.725	99	90-110	
Chromium	100	100.212	100	90-110	
Cobalt	100	100.957	101	90-110	
Copper	100	100.887	101	90-110	
Iron	10000	10077.376	101	90-110	
Lead	100	98.36	98	90-110	
Magnesium	10000	10086.049	101	90-110	
Manganese	100	99.976	100	90-110	
Nickel	100	101.174	101	90-110	
Potassium	10000	10033.475	100	90-110	
Selenium	100	101.341	101	90-110	
Silver	100	99.246	99	90-110	
Sodium	10000	10020.113	100	90-110	
Thallium	100	98.785	99	90-110	
Vanadium	100	99.833	100	90-110	
Zinc	100	102.229	102	90-110	

CCV1	Date: 25-Jun-2024 16:42	Seq: 8098136	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.661	100	90-110	
Antimony	100	100.093	100	90-110	
Arsenic	100	99.895	100	90-110	
Barium	100	98.473	99	90-110	
Beryllium	100	100.052	100	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV1 Date: 25-Jun-2024 16:42 Seq: 8098136 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	98.143	98	90-110	
Calcium	10000	9724.528	97	90-110	
Chromium	100	100.18	100	90-110	
Cobalt	100	101.461	101	90-110	
Copper	100	100.976	101	90-110	
Iron	10000	10111.096	101	90-110	
Lead	100	98.877	99	90-110	
Magnesium	10000	10025.231	100	90-110	
Manganese	100	98.574	99	90-110	
Nickel	100	100.915	101	90-110	
Potassium	10000	10028.992	100	90-110	
Selenium	100	99.498	100	90-110	
Silver	100	99.724	100	90-110	
Sodium	10000	9968.711	100	90-110	
Thallium	100	99.346	99	90-110	
Vanadium	100	99.859	100	90-110	
Zinc	100	101.242	101	90-110	

CCV2 Date: 25-Jun-2024 17:06 Seq: 8098241 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	97.872	98	90-110	
Antimony	100	96.741	97	90-110	
Arsenic	100	96.526	97	90-110	
Barium	100	96.245	96	90-110	
Beryllium	100	97.275	97	90-110	
Cadmium	100	96.019	96	90-110	
Calcium	10000	9436.495	94	90-110	
Chromium	100	96.516	97	90-110	
Cobalt	100	98.328	98	90-110	
Copper	100	97.409	97	90-110	
Iron	10000	9787.536	98	90-110	
Lead	100	96.434	96	90-110	
Magnesium	10000	9724.745	97	90-110	
Manganese	100	95.82	96	90-110	
Nickel	100	98.209	98	90-110	
Potassium	10000	9702.682	97	90-110	
Selenium	100	97.324	97	90-110	
Silver	100	97.527	98	90-110	
Sodium	10000	9703.901	97	90-110	
Thallium	100	96.511	97	90-110	
Vanadium	100	96.083	96	90-110	
Zinc	100	98.45	98	90-110	

CCV3 Date: 25-Jun-2024 17:52 Seq: 8098256 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	95.537	96	90-110	
Antimony	100	103.951	104	90-110	
Arsenic	100	97.384	97	90-110	
Barium	100	102.548	103	90-110	
Beryllium	100	100.967	101	90-110	
Cadmium	100	101.219	101	90-110	
Calcium	10000	9003.431	90	90-110	
Chromium	100	98.42	98	90-110	
Cobalt	100	100.127	100	90-110	
Copper	100	99.725	100	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV3	Date: 25-Jun-2024 17:52	Seq: 8098256	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	9429.504	94	90-110	
Lead	100	102.627	103	90-110	
Magnesium	10000	9246.09	93	90-110	
Manganese	100	97.305	97	90-110	
Nickel	100	99.279	99	90-110	
Potassium	10000	9209.335	92	90-110	
Selenium	100	100.034	100	90-110	
Silver	100	100.494	100	90-110	
Sodium	10000	9134.974	91	90-110	
Thallium	100	106.156	106	90-110	
Vanadium	100	98.163	98	90-110	
Zinc	100	99.11	99	90-110	

CCV4	Date: 25-Jun-2024 17:54	Seq: 8098257	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.933	99	90-110	
Antimony	100	106.238	106	90-110	
Arsenic	100	99.027	99	90-110	
Barium	100	102.938	103	90-110	
Beryllium	100	102.485	102	90-110	
Cadmium	100	103.567	104	90-110	
Calcium	10000	9248.044	93	90-110	
Chromium	100	99.401	99	90-110	
Cobalt	100	101.307	101	90-110	
Copper	100	101.821	102	90-110	
Iron	10000	9487.578	95	90-110	
Lead	100	103.679	104	90-110	
Magnesium	10000	9480.477	95	90-110	
Manganese	100	98.323	98	90-110	
Nickel	100	100.589	101	90-110	
Potassium	10000	9539.387	95	90-110	
Selenium	100	100.827	101	90-110	
Silver	100	102.702	103	90-110	
Sodium	10000	9343.703	93	90-110	
Thallium	100	107.679	108	90-110	
Vanadium	100	100.231	100	90-110	
Zinc	100	101.613	102	90-110	

CCV5	Date: 25-Jun-2024 18:22	Seq: 8098363	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.265	98	90-110	
Antimony	100	107.828	108	90-110	
Arsenic	100	99.941	100	90-110	
Barium	100	103.012	103	90-110	
Beryllium	100	102.052	102	90-110	
Cadmium	100	102.446	102	90-110	
Calcium	10000	9215.957	92	90-110	
Chromium	100	101.574	102	90-110	
Cobalt	100	102.382	102	90-110	
Copper	100	102.639	103	90-110	
Iron	10000	9627.994	96	90-110	
Lead	100	102.433	102	90-110	
Magnesium	10000	9426.381	94	90-110	
Manganese	100	99.289	99	90-110	
Nickel	100	101.173	101	90-110	

ALS Houston, US

Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV5	Date: 25-Jun-2024 18:22		Seq: 8098363	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Potassium	10000	9415.508	94	90-110	
Selenium	100	101.565	102	90-110	
Silver	100	102.055	102	90-110	
Sodium	10000	9295.562	93	90-110	
Thallium	100	105.893	106	90-110	
Vanadium	100	100.677	101	90-110	
Zinc	100	100.921	101	90-110	

CCV6	Date: 25-Jun-2024 19:07		Seq: 8098806	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	98.829	99	90-110	
Antimony	100	105.92	106	90-110	
Arsenic	100	99.555	100	90-110	
Barium	100	102.416	102	90-110	
Beryllium	100	103.294	103	90-110	
Cadmium	100	102.062	102	90-110	
Calcium	10000	9154.792	92	90-110	
Chromium	100	99.183	99	90-110	
Cobalt	100	101.235	101	90-110	
Copper	100	101.894	102	90-110	
Iron	10000	9483.686	95	90-110	
Lead	100	101.583	102	90-110	
Magnesium	10000	9412.361	94	90-110	
Manganese	100	98.55	99	90-110	
Nickel	100	101.102	101	90-110	
Potassium	10000	9373.544	94	90-110	
Selenium	100	100.185	100	90-110	
Silver	100	100.909	101	90-110	
Sodium	10000	9309.643	93	90-110	
Thallium	100	105.634	106	90-110	
Vanadium	100	99.303	99	90-110	
Zinc	100	101.532	102	90-110	

CCV7	Date: 25-Jun-2024 19:37		Seq: 8098815	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	99.134	99	90-110	
Antimony	100	107.32	107	90-110	
Arsenic	100	100.75	101	90-110	
Barium	100	102.687	103	90-110	
Beryllium	100	104.158	104	90-110	
Cadmium	100	102.609	103	90-110	
Calcium	10000	9359.178	94	90-110	
Chromium	100	100.437	100	90-110	
Cobalt	100	102.304	102	90-110	
Copper	100	102.677	103	90-110	
Iron	10000	9568.008	96	90-110	
Lead	100	101.885	102	90-110	
Magnesium	10000	9538.159	95	90-110	
Manganese	100	99.679	100	90-110	
Nickel	100	102.102	102	90-110	
Potassium	10000	9502.388	95	90-110	
Selenium	100	101.762	102	90-110	
Silver	100	100.744	101	90-110	
Sodium	10000	9486.946	95	90-110	
Thallium	100	105.725	106	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV7 Date: 25-Jun-2024 19:37 Seq: 8098815 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Vanadium	100	100.93	101	90-110	
Zinc	100	101.864	102	90-110	

ALS Houston, US

Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICV | Date: 26-Jun-2024 11:15 | Seq: 8099741 | ICV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.81	100	90-110	
Zinc	100	102.9	103	90-110	

CCV1 | Date: 26-Jun-2024 11:52 | Seq: 8099811 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.47	100	90-110	
Zinc	100	100.642	101	90-110	

CCV2 | Date: 26-Jun-2024 12:33 | Seq: 8099902 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	104.669	105	90-110	
Zinc	100	103.778	104	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: HG04_470273
Instrument: HG04
Method: SW7470A

ICB	Date: 24-Jun-2024 11:27		Seq: 8094600	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB1	Date: 24-Jun-2024 11:32		Seq: 8094603	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB2	Date: 24-Jun-2024 12:00		Seq: 8094615	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB3	Date: 24-Jun-2024 12:26		Seq: 8094627	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB4	Date: 24-Jun-2024 12:55		Seq: 8094639	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB5	Date: 24-Jun-2024 13:21		Seq: 8094651	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB6	Date: 24-Jun-2024 13:42		Seq: 8094663	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB7	Date: 24-Jun-2024 14:07		Seq: 8094675	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB8	Date: 24-Jun-2024 14:36		Seq: 8094699	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
MBLK-214008	Date: 24-Jun-2024 14:42		Seq: 8094701	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB9	Date: 24-Jun-2024 15:01		Seq: 8094711	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB10	Date: 24-Jun-2024 15:32		Seq: 8094723	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB11	Date: 24-Jun-2024 15:54		Seq: 8094792	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 25-Jun-2024 11:13	Seq: 8096760	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Aluminum	2.696	1.8	10	J
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	69.22	34	500	J
Chromium	5	0.4	5	U
Cobalt	5	0.1	5	U
Copper	5	1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	-31.07	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

ICCB1	Date: 25-Jun-2024 16:15	Seq: 8097906	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Aluminum	2.058	1.8	10	J
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	42.64	34	500	J
Chromium	5	0.4	5	U
Cobalt	5	0.1	5	U
Copper	5	1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	-56.34	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

CCB2	Date: 25-Jun-2024 16:44	Seq: 8098137	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Aluminum	10	1.8	10	U
Antimony	2	0.4	2	U
Arsenic	2	0.4	2	U
Barium	4	1.9	4	U
Beryllium	2	0.2	2	U

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 25-Jun-2024 16:44		Seq: 8098137	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.483	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-81.6	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-213798	Date: 25-Jun-2024 16:47		Seq: 8098138	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB3	Date: 25-Jun-2024 17:09		Seq: 8098242	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.466	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB3	Date: 25-Jun-2024 17:09		Seq: 8098242	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-56.58	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 25-Jun-2024 17:38		Seq: 8098253	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.494	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 25-Jun-2024 18:25		Seq: 8098364	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.456	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB5	Date: 25-Jun-2024 18:25		Seq: 8098364	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-57.33	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB6	Date: 25-Jun-2024 19:10		Seq: 8098807	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.43	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-64.93	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB7	Date: 25-Jun-2024 19:39		Seq: 8098816	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.459	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-62.13	14	200	J	
Thallium	2	0.2	2	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB7 Date: 25-Jun-2024 19:39 Seq: 8098816 CCB Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 26-Jun-2024 11:24		Seq: 8099745	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	3.346	1.8	10	J	
Zinc	5	2	5	U	
CCB1	Date: 26-Jun-2024 11:55		Seq: 8099812	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	5.124	1.8	10	J	
Zinc	3.089	2	4	J	
CCB2	Date: 26-Jun-2024 12:35		Seq: 8099903	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	2.554	1.8	10	J	
Zinc	4	2	4	U	

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 25-Jun-2024 11:18	Seq: 8096762	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	98850	98.9	
Antimony		0.072	0	
Arsenic		0.362	0	
Barium		0.556	0	
Beryllium		0.03	0	
Cadmium		0.793	0	
Calcium	100000	98040	98.0	
Chromium		0.808	0	
Cobalt		0.956	0	
Copper		0.69	0	
Iron	100000	96530	96.5	
Lead		0.863	0	
Magnesium	100000	97060	97.1	
Manganese		1.726	0	
Nickel		1.007	0	
Potassium	100000	97960	98.0	
Selenium		0.024	0	
Silver		0.046	0	
Sodium	100000	98280	98.3	
Thallium		0.008	0	
Vanadium		0.211	0	
Zinc		3.182	0	

ICSAB	Date: 25-Jun-2024 11:21	Seq: 8096763	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	101100	101	
Antimony	100	99.77	99.8	
Arsenic	100	103.3	103	
Barium	100	102.8	103	
Beryllium	100	87.55	87.6	
Cadmium	100	98.96	99.0	
Calcium	110000	110000	100.0	
Chromium	100	101.1	101	
Cobalt	100	99.03	99.0	
Copper	100	96.24	96.2	
Iron	110000	109100	99.1	
Lead	100	103.6	104	
Magnesium	110000	109000	99.1	
Manganese	100	100.4	100	
Nickel	100	95.96	96.0	
Potassium	110000	111200	101	
Selenium	100	102.6	103	
Silver	100	98.92	98.9	
Sodium	110000	110900	101	
Thallium	100	101.8	102	
Vanadium	100	102.3	102	
Zinc	100	100.2	100	

ICSA	Date: 25-Jun-2024 16:29	Seq: 8097918	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	104000	104	
Antimony		0.146	0	
Arsenic		0.371	0	
Barium		0.439	0	

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 25-Jun-2024 16:29	Seq: 8097918	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Beryllium		0.026	0	
Cadmium		0.735	0	
Calcium	100000	99410	99.4	
Chromium		0.806	0	
Cobalt		1.01	0	
Copper		0.708	0	
Iron	100000	98350	98.3	
Lead		0.874	0	
Magnesium	100000	98850	98.8	
Manganese		1.81	0	
Nickel		0.998	0	
Potassium	100000	101200	101	
Selenium		0.151	0	
Silver		0.025	0	
Sodium	100000	99970	100.0	
Thallium		0.006	0	
Vanadium		0.267	0	
Zinc		2.944	0	

ICSAB	Date: 25-Jun-2024 16:32	Seq: 8097919	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	98710	98.2	
Antimony	100	101.2	101	
Arsenic	100	100.3	100	
Barium	100	102.8	103	
Beryllium	100	96.89	96.9	
Cadmium	100	100.1	100	
Calcium	110000	104700	95.2	
Chromium	100	97.58	97.6	
Cobalt	100	96.53	96.5	
Copper	100	93.87	93.9	
Iron	110000	104900	95.3	
Lead	100	103.3	103	
Magnesium	110000	104400	95.0	
Manganese	100	97.5	97.5	
Nickel	100	94.09	94.1	
Potassium	110000	105900	96.3	
Selenium	100	102.8	103	
Silver	100	98.54	98.5	
Sodium	110000	105800	96.1	
Thallium	100	97.34	97.3	
Vanadium	100	99.39	99.4	
Zinc	100	98.54	98.5	

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICSA	Date: 26-Jun-2024 11:31	Seq: 8099755	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	107500	107	
Zinc		3.199	0	

ICSAB	Date: 26-Jun-2024 11:34	Seq: 8099756	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	105900	105	
Zinc	100	105.9	106	

ALS Houston, US Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Date Analyzed: 24-Jun-2024 14:51
Date Extracted: 24-Jun-2024 09:00
Units: ug/L

Matrix Spike: HS24060694-02MS
Client Sample ID:

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	4.760	5.000	94.9	4.690	5.000	93.5	82-119	1.48	20

ALS Houston, US

Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Date Analyzed: 25-Jun-2024 16:59
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Matrix Spike: HS24060694-01MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Antimony	5.000	49.64	50.00	98.7	49.77	50.00	98.9	85-117	0.243	20
Arsenic	5.000	49.35	50.00	98.0	49.62	50.00	98.6	84-116	0.538	20
Barium	199.4	244.3	50.00	89.7	243.8	50.00	88.6	86-114	0.211	20
Beryllium	2.000	48.89	50.00	97.7	49.08	50.00	98.1	83-121	0.378	20
Cadmium	2.000	48.23	50.00	96.2	48.43	50.00	96.6	87-115	0.422	20
Calcium	16200	20760	5000	91.3	20950	5000	95.0	87-118	0.884	20
Chromium	1.750	48.65	50.00	93.8	48.85	50.00	94.2	85-116	0.404	20
Cobalt	0.9010	48.27	50.00	94.7	48.79	50.00	95.8	86-115	1.07	20
Copper	1.140	48.62	50.00	95.0	48.90	50.00	95.5	85-118	0.574	20
Iron	221.7	5025	5000	96.1	5078	5000	97.1	87-118	1.06	20
Lead	5.000	48.03	50.00	95.9	48.29	50.00	96.4	88-115	0.538	20
Magnesium	8499	13190	5000	93.8	13310	5000	96.2	83-118	0.900	20
Nickel	4.569	50.24	50.00	91.3	50.52	50.00	91.9	85-117	0.572	20
Potassium	1123	5948	5000	96.5	5971	5000	96.9	87-115	0.382	20
Selenium	5.000	49.35	50.00	98.1	50.66	50.00	101	80-120	2.62	20
Silver	5.000	47.55	50.00	95.0	47.65	50.00	95.2	85-116	0.208	20
Thallium	2.000	41.75	50.00	83.5	42.49	50.00	85.0	82-116	1.76	20
Vanadium	1.125	48.94	50.00	95.6	49.03	50.00	95.8	86-115	0.171	20
Manganese	203.5	239.2	50.00	71.5	237.5	50.00	68.0	87-115	0.730	20
Sodium	180200	179500	5000	-14.1	178000	5000	-43.0	85-117	0.809	20

ALS Houston, US Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Date Analyzed: 26-Jun-2024 12:20
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Matrix Spike: HS24060694-01MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	2.952	117.3	100.0	114	114.3	100.0	111	84-117	2.55	20
Zinc	4.939	118.7	100.0	114	117.5	100.0	113	83-119	1.03	20

ALS Houston, US Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Date Analyzed: 25-Jun-2024 17:01
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Antimony	0	93.99	100	94	80-120
Arsenic	0	94.35	100	94	80-120
Barium	199.4	282.3	100	83	80-120
Beryllium	0	92.6	100	93	80-120
Cadmium	0	92.98	100	93	80-120
Chromium	1.75	92.46	100	91	80-120
Cobalt	0.901	92.98	100	92	80-120
Copper	1.14	92.5	100	91	80-120
Iron	221.7	9522	10000	93	80-120
Lead	0	93.22	100	93	80-120
Magnesium	8499	17230	10000	87	80-120
Nickel	4.569	93.41	100	89	80-120
Potassium	1123	10320	10000	92	80-120
Selenium	0	93.83	100	94	80-120
Silver	0	94.78	100	95	80-120
Thallium	0	93.04	100	93	80-120
Vanadium	1.125	93.18	100	92	80-120
Manganese	203.5	283.8	100	80	80-120
Sodium	180200	180900	10000	7	80-120

ALS Houston, US Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Date Analyzed: 26-Jun-2024 12:23
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	2.952	112.9	100	110	80-120
Zinc	4.939	115.9	100	111	80-120

ALS Houston, US Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Date Analyzed: 24-Jun-2024 14:44
Date Extracted: 24-Jun-2024 09:00
Units: ug/L

Lab Sample ID: LCS-214008 Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.94	99	82-119

ALS Houston, US Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Date Analyzed: 25-Jun-2024 16:49
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: LCS-213798 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	105.2	105	84-117
Antimony	50	48.71	97	85-117
Arsenic	50	47.17	94	84-116
Barium	50	46.74	94	86-114
Beryllium	50	46.51	93	83-121
Cadmium	50	46.53	93	87-115
Calcium	5000	4767	95	87-118
Chromium	50	47.17	94	85-116
Cobalt	50	47.62	95	86-115
Copper	50	47.83	96	85-118
Iron	5000	4812	96	87-118
Lead	50	46.43	93	88-115
Magnesium	5000	4807	96	83-118
Manganese	50	49.1	98	87-115
Nickel	50	48.37	97	85-117
Potassium	5000	4747	95	87-115
Selenium	50	47.19	94	80-120
Silver	50	47.93	96	85-116
Sodium	5000	4680	94	85-117
Vanadium	50	46.34	93	86-115
Zinc	50	55.09	110	83-119
Thallium	50	44.52	89	82-116

ALS Houston, US

Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Date Analyzed: 25-Jun-2024 16:52
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	199.4		198.4		1	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	16200		16250		0	
Chromium	1.75	J	0	U	0	
Cobalt	0.901	J	0.932	J	3	
Copper	1.14	J	0	U	0	
Iron	221.7		228.5	J	3	
Lead	0	U	0	U	0	
Magnesium	8499		8733		3	
Nickel	4.569	J	4.624	J	1	
Potassium	1123		1108		1	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	
Thallium	0	U	0	U	0	
Vanadium	1.125	J	0	U	0	
Manganese	203.5		206.4		1	
Sodium	180200		181900		1	

ALS Houston, US Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Date Analyzed: 26-Jun-2024 12:15
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01SD
Client Sample ID:

Analysis Method: SW6020A

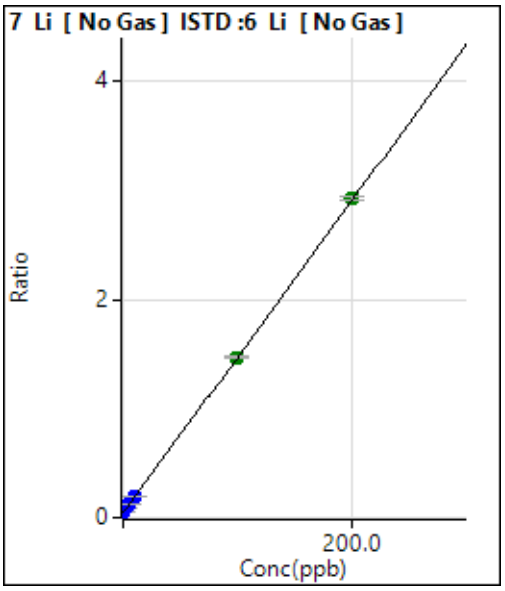
Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	2.952	J	0	U	0	
Zinc	4.939	J	0	U	0	

Calibration for 218_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	211CALB.d	CAL BLK	6/25/2024 8:21:55 PM
2	212CALS.d	2/10/200	6/25/2024 8:24:25 PM
3	213CALS.d	5/25/500	6/25/2024 8:26:55 PM
4	214CALS.d	10/50/100	6/25/2024 8:29:25 PM
5	215CALS.d	100/500/10K	6/25/2024 8:31:54 PM
6	216CALS.d	200/1000/20K	6/25/2024 8:34:24 PM

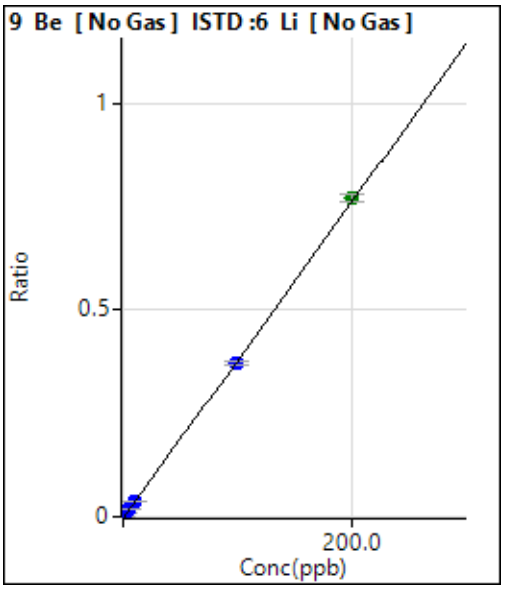
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	84075.92	0.0587	P	0.7	
2	☐	2.000	1.931	122682.61	0.0862	P	0.3	-3.5
3	☐	5.000	4.859	180022.05	0.1281	P	0.7	-2.8
4	☐	10.000	9.705	273098.89	0.1973	P	1.4	-3.0
5	☐	100.000	98.714	1898700.80	1.4688	A	1.9	-1.3
6	☐	200.000	200.662	3626143.70	2.9251	A	1.6	0.3

y = 0.0143 * x + 0.0587
R = 1.0000
DL = 0.08043 ppb
BEC = 4.107 ppb

Weight: <None>
Min Conc: <None>

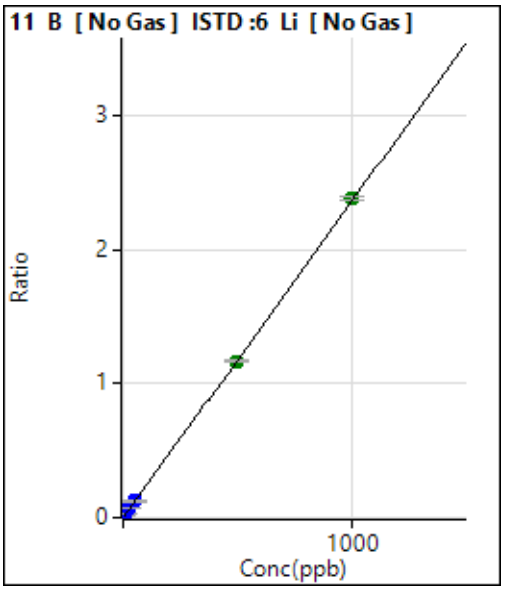


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	216.67	0.0002	P	14.3	
2	☐	2.000	1.859	10337.14	0.0073	P	3.3	-7.0
3	☐	5.000	4.767	25853.50	0.0184	P	0.7	-4.7
4	☐	10.000	9.536	50723.24	0.0366	P	1.8	-4.6
5	☐	100.000	96.834	479238.31	0.3707	P	2.3	-3.2
6	☐	200.000	201.613	956650.56	0.7717	A	2.3	0.8

y = 0.0038 * x + 1.5114E-004
R = 0.9998
DL = 0.01695 ppb
BEC = 0.03949 ppb

Weight: <None>
Min Conc: <None>

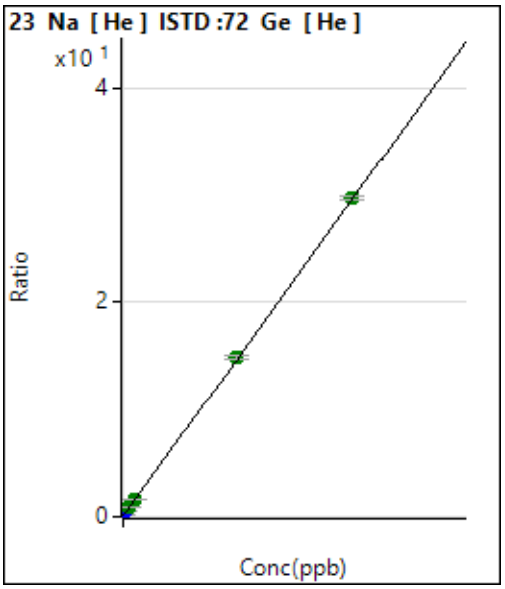
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15015.07	0.0105	P	1.8	
2	☐	10.000	9.482	46721.45	0.0328	P	1.5	-5.2
3	☐	25.000	23.300	91983.59	0.0654	P	0.9	-6.8
4	☐	50.000	47.271	168848.65	0.1220	P	1.9	-5.5
5	☐	500.000	490.205	1508411.28	1.1669	A	1.4	-2.0
6	☐	1000.000	1005.082	2952235.27	2.3815	A	1.5	0.5

y = 0.0024 * x + 0.0105
R = 0.9999
DL = 0.2367 ppb
BEC = 4.441 ppb

Weight: <None>
Min Conc: <None>

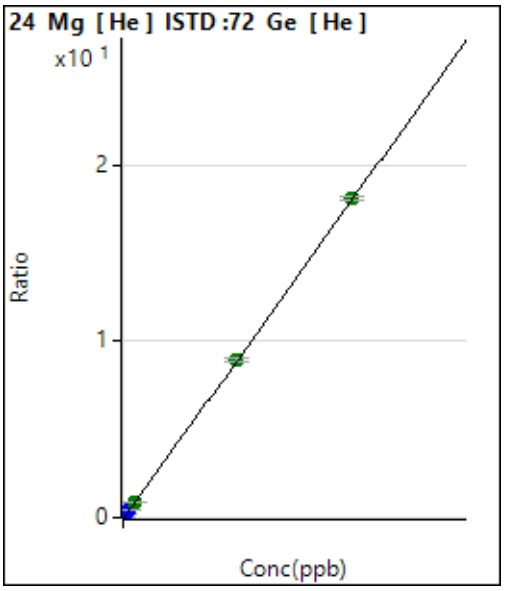


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246522.24	0.2094	P	0.5	
2	☐	200.000	177.215	556826.78	0.4703	P	1.5	-11.4
3	☐	500.000	468.746	1061610.14	0.8997	A	1.9	-6.3
4	☐	1000.000	979.302	1920986.32	1.6515	A	2.2	-2.1
5	☐	10000.00	9928.841	16887564.33	14.8311	A	2.6	-0.7
6	☐	20000.00	20037.62	32998102.01	29.7179	A	0.6	0.2

y = 0.0015 * x + 0.2094
R = 1.0000
DL = 1.963 ppb
BEC = 142.2 ppb

Weight: <None>
Min Conc: <None>

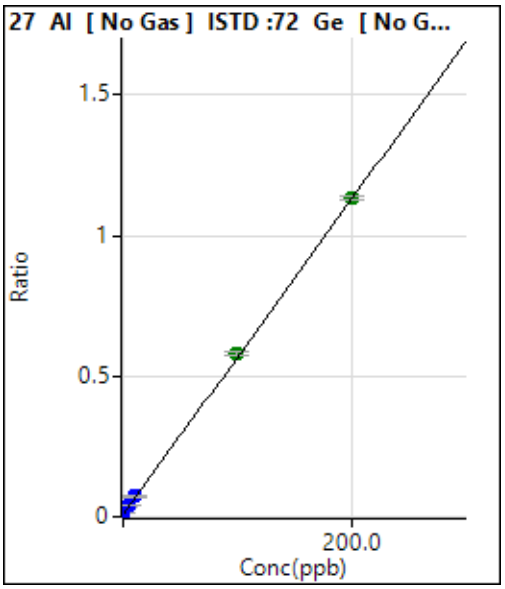
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1023.39	0.0009	P	13.8	
2	☐	200.000	190.730	205362.23	0.1735	P	1.1	-4.6
3	☐	500.000	478.958	512473.70	0.4343	P	2.0	-4.2
4	☐	1000.000	997.121	1050512.09	0.9032	A	2.5	-0.3
5	☐	10000.00	9944.357	10247370.68	8.9994	A	2.3	-0.6
6	☐	20000.00	20028.58	20125391.79	18.1246	A	0.9	0.1

y = 9.0489E-004 * x + 8.6956E-004
R = 1.0000
DL = 0.3972 ppb
BEC = 0.961 ppb

Weight: <None>
Min Conc: <None>

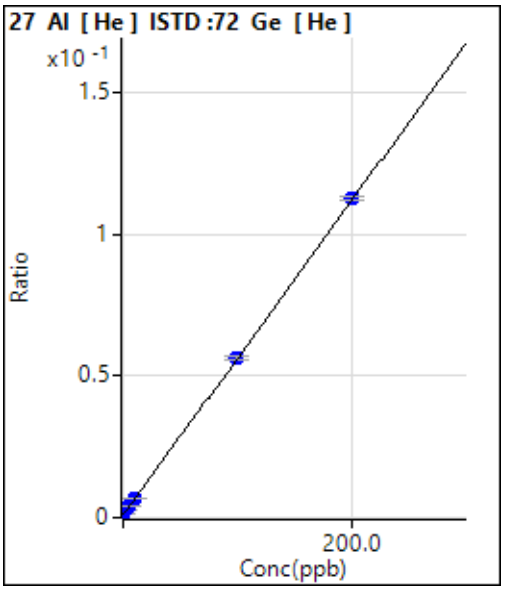


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55318.96	0.0135	P	1.8	
2	☐	2.000	3.183	129067.56	0.0314	P	1.6	59.1
3	☐	5.000	5.171	174084.36	0.0425	P	2.9	3.4
4	☐	10.000	10.458	292011.10	0.0722	P	1.5	4.6
5	☐	100.000	100.581	2240726.01	0.5778	A	2.3	0.6
6	☐	200.000	199.670	4346690.14	1.1337	A	0.9	-0.2

y = 0.0056 * x + 0.0135
R = 1.0000
DL = 0.131 ppb
BEC = 2.405 ppb

Weight: <None>
Min Conc: <None>

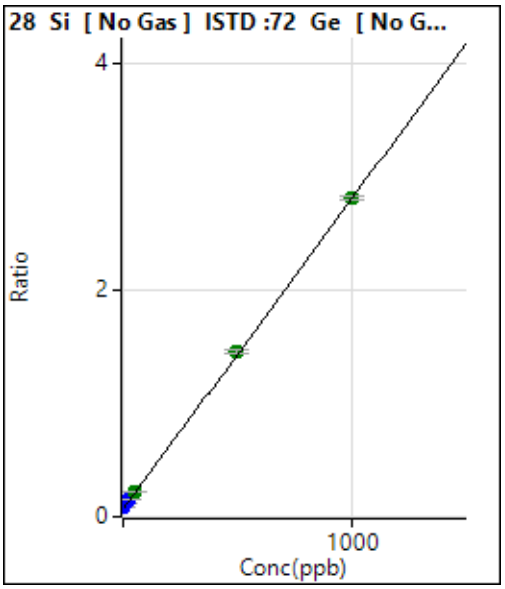
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.13	0.0014	P	6.8	
2	☐	2.000	2.668	3463.82	0.0029	P	1.0	33.4
3	☐	5.000	5.013	4990.97	0.0042	P	3.5	0.3
4	☐	10.000	10.037	8162.51	0.0070	P	2.8	0.4
5	☐	100.000	99.145	64330.56	0.0565	P	2.0	-0.9
6	☐	200.000	200.418	125172.48	0.1127	P	1.0	0.2

y = 5.5526E-004 * x + 0.0014
R = 1.0000
DL = 0.5323 ppb
BEC = 2.601 ppb

Weight: <None>
Min Conc: <None>

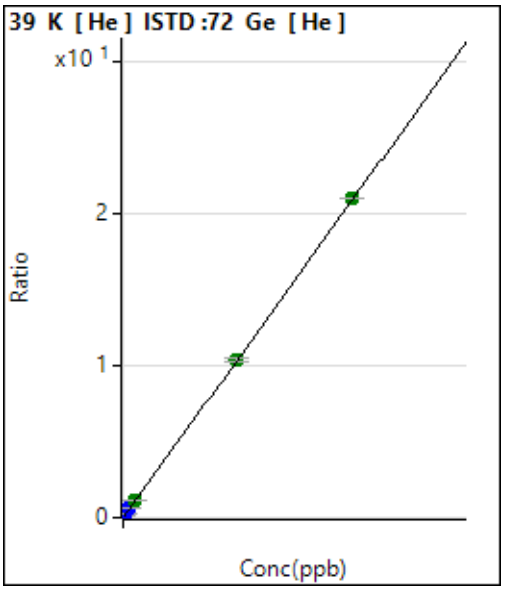


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	332308.51	0.0811	P	0.2	
2	☐	10.000	11.804	466731.36	0.1134	P	1.0	18.0
3	☐	25.000	27.593	641330.07	0.1566	P	0.7	10.4
4	☐	50.000	51.276	895774.07	0.2214	A	1.6	2.6
5	☐	500.000	503.803	5660879.29	1.4598	A	2.7	0.8
6	☐	1000.000	997.952	10781099.42	2.8120	A	1.0	-0.2

y = 0.0027 * x + 0.0811
R = 1.0000
DL = 0.193 ppb
BEC = 29.62 ppb

Weight: <None>
Min Conc: <None>

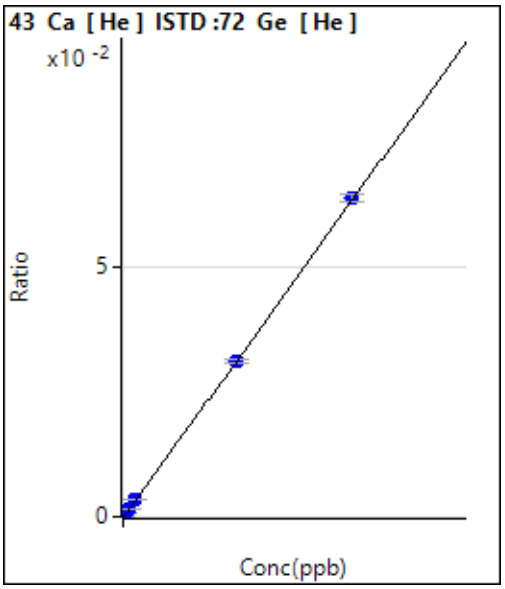
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	116935.82	0.0993	P	0.5	
2	☐	200.000	189.748	351277.07	0.2967	P	1.7	-5.1
3	☐	500.000	480.170	706757.41	0.5989	P	1.2	-4.0
4	☐	1000.000	993.223	1317504.72	1.1327	A	2.1	-0.7
5	☐	10000.00	9867.896	11804115.24	10.3664	A	2.1	-1.3
6	☐	20000.00	20066.98	23293283.82	20.9781	A	0.4	0.3

y = 0.0010 * x + 0.0993
R = 1.0000
DL = 1.34 ppb
BEC = 95.45 ppb

Weight: <None>
Min Conc: <None>

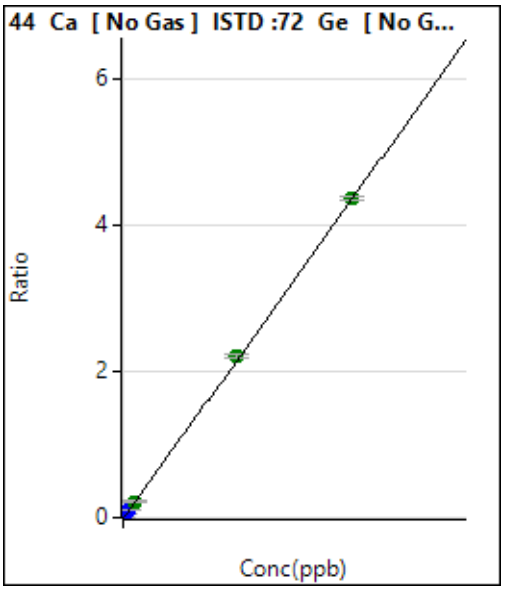


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0000	P	10.4	
2	☐	200.000	206.424	833.37	0.0007	P	6.8	3.2
3	☐	500.000	476.099	1843.51	0.0016	P	6.6	-4.8
4	☐	1000.000	1070.146	4010.65	0.0034	P	5.2	7.0
5	☐	10000.00	9820.201	35595.90	0.0313	P	2.8	-1.8
6	☐	20000.00	20086.92	70940.30	0.0639	P	1.8	0.4

y = 3.1782E-006 * x + 4.8134E-005
R = 0.9999
DL = 4.741 ppb
BEC = 15.14 ppb

Weight: <None>
Min Conc: <None>

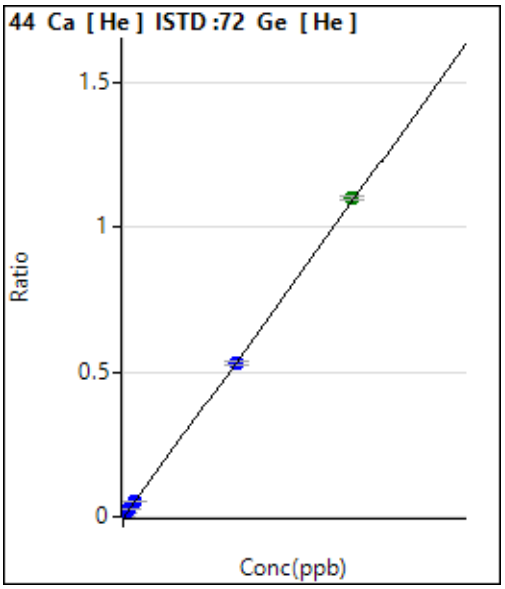
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18676.19	0.0046	P	0.6	
2	☐	200.000	210.423	208174.26	0.0506	P	2.1	5.2
3	☐	500.000	501.435	467758.65	0.1142	P	1.6	0.3
4	☐	1000.000	996.489	900106.37	0.2225	A	1.7	-0.4
5	☐	10000.00	10043.83	8534890.08	2.2009	A	2.5	0.4
6	☐	20000.00	19978.11	16766485.17	4.3732	A	0.9	-0.1

y = 2.1867E-004 * x + 0.0046
R = 1.0000
DL = 0.3469 ppb
BEC = 20.84 ppb

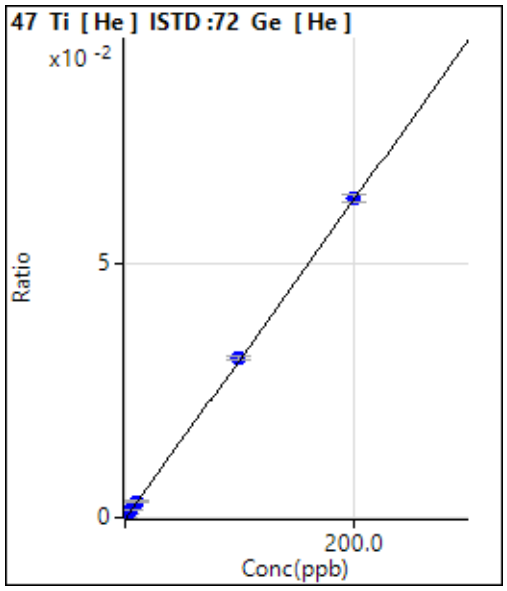
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	736.70	0.0006	P	12.9	
2	☐	200.000	193.391	13243.12	0.0112	P	0.7	-3.3
3	☐	500.000	477.192	31486.01	0.0267	P	1.5	-4.6
4	☐	1000.000	983.759	63210.00	0.0543	P	1.3	-1.6
5	☐	10000.00	9676.944	602399.91	0.5290	P	2.3	-3.2
6	☐	20000.00	20162.97	1223248.71	1.1016	A	1.1	0.8

y = 5.4605E-005 * x + 6.2601E-004
R = 0.9998
DL = 4.436 ppb
BEC = 11.46 ppb

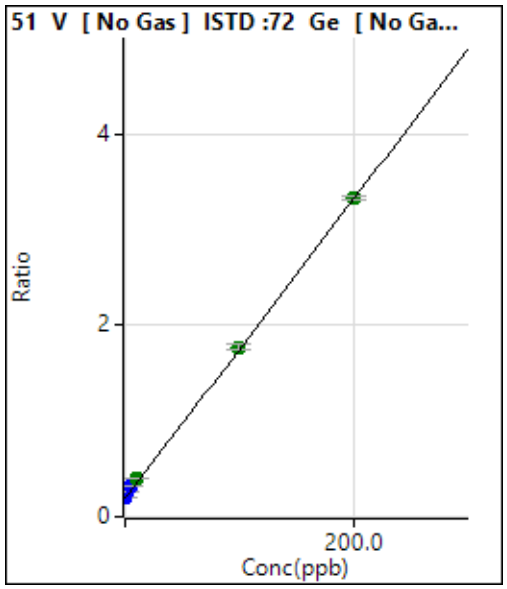
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	1.999	756.70	0.0006	P	12.6	0.0
3	☐	5.000	4.985	1860.16	0.0016	P	2.8	-0.3
4	☐	10.000	10.035	3673.88	0.0032	P	12.3	0.3
5	☐	100.000	99.730	35649.18	0.0313	P	2.6	-0.3
6	☐	200.000	200.134	69751.44	0.0628	P	2.0	0.1

y = 3.1381E-004 * x + 1.1279E-005
R = 1.0000
DL = 0.09338 ppb
BEC = 0.03594 ppb

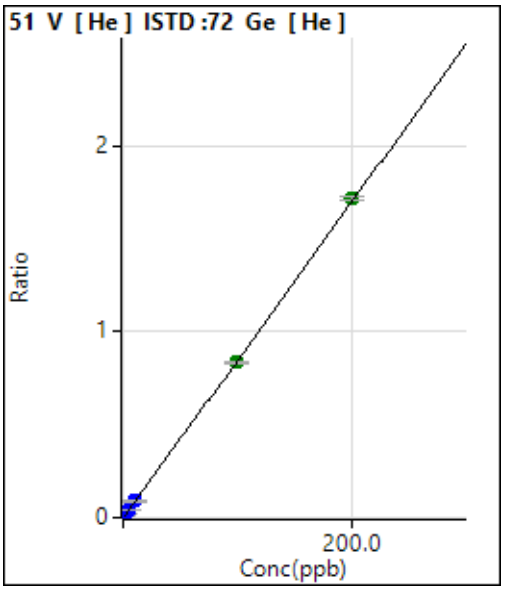
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	845280.58	0.2062	P	3.2	
2	☐	2.000	3.177	1053915.24	0.2560	P	0.6	58.9
3	☐	5.000	7.077	1298931.12	0.3171	P	1.2	41.5
4	☐	10.000	12.926	1654252.48	0.4088	A	0.2	29.3
5	☐	100.000	100.261	6895476.17	1.7781	A	2.5	0.3
6	☐	200.000	199.660	12791592.73	3.3365	A	1.3	-0.2

y = 0.0157 * x + 0.2062
R = 0.9999
DL = 1.28 ppb
BEC = 13.15 ppb

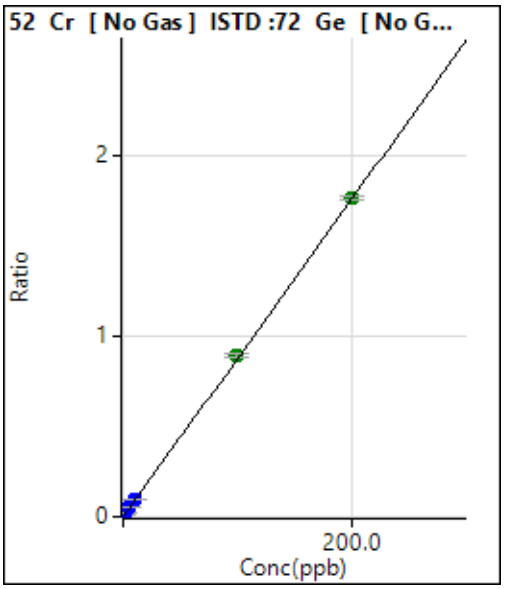
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6242.54	0.0053	P	2.7	
2	☐	2.000	1.895	25369.84	0.0214	P	2.4	-5.3
3	☐	5.000	4.794	54399.52	0.0461	P	2.0	-4.1
4	☐	10.000	9.792	103095.70	0.0886	P	2.0	-2.1
5	☐	100.000	97.338	949375.41	0.8337	A	1.9	-2.7
6	☐	200.000	201.348	1908762.42	1.7190	A	1.2	0.7

y = 0.0085 * x + 0.0053
R = 0.9999
DL = 0.05061 ppb
BEC = 0.623 ppb

Weight: <None>
Min Conc: <None>

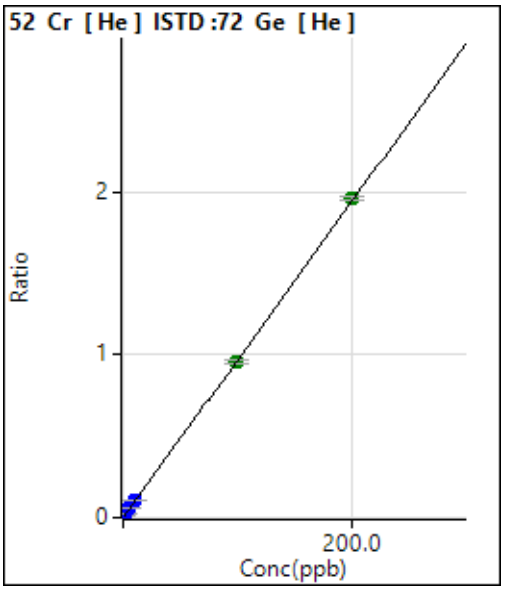


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33624.36	0.0082	P	3.3	
2	☐	2.000	2.042	107555.56	0.0261	P	1.4	2.1
3	☐	5.000	5.164	219274.43	0.0535	P	2.0	3.3
4	☐	10.000	10.159	394049.59	0.0974	P	1.3	1.6
5	☐	100.000	100.345	3448218.39	0.8892	A	2.2	0.3
6	☐	200.000	199.815	6756917.40	1.7624	A	1.4	-0.1

y = 0.0088 * x + 0.0082
R = 1.0000
DL = 0.09152 ppb
BEC = 0.9342 ppb

Weight: <None>
Min Conc: <None>

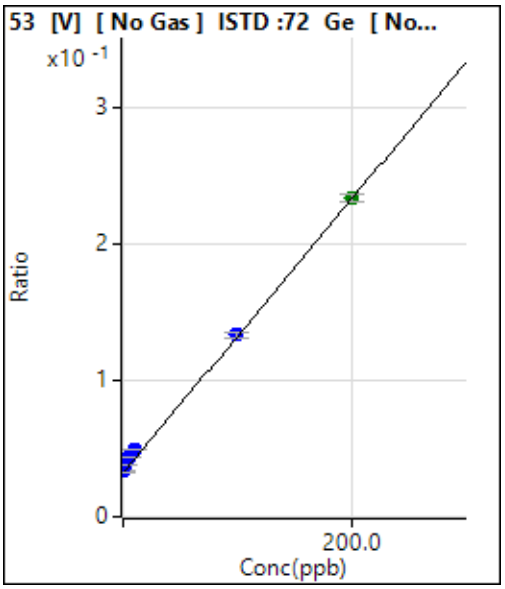
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12155.51	0.0103	P	2.3	
2	☐	2.000	1.877	33771.53	0.0285	P	1.2	-6.2
3	☐	5.000	4.816	67289.88	0.0570	P	3.2	-3.7
4	☐	10.000	9.900	123692.24	0.1064	P	2.4	-1.0
5	☐	100.000	97.672	1090534.12	0.9577	A	2.0	-2.3
6	☐	200.000	201.175	2178279.24	1.9617	A	1.6	0.6

y = 0.0097 * x + 0.0103
R = 0.9999
DL = 0.07385 ppb
BEC = 1.064 ppb

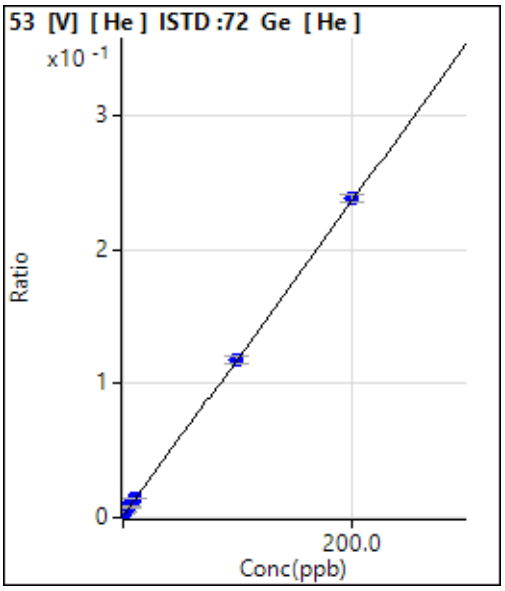
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	137235.88	0.0335	P	3.4	
2	☐	2.000	4.862	157899.77	0.0384	P	0.8	143.1
3	☐	5.000	9.956	178035.79	0.0435	P	1.4	99.1
4	☐	10.000	15.962	200268.18	0.0495	P	0.3	59.6
5	☐	100.000	99.725	517971.37	0.1336	P	2.8	-0.3
6	☐	200.000	199.687	896711.89	0.2339	A	2.1	-0.2

y = 0.0010 * x + 0.0335
R = 0.9996
DL = 3.37 ppb
BEC = 33.35 ppb

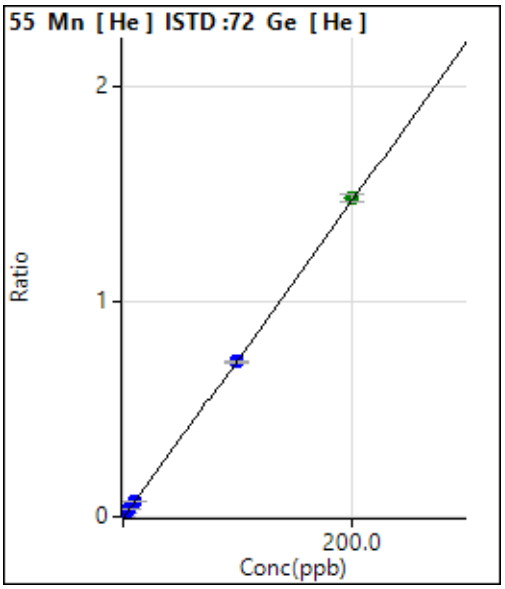
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2870.36	0.0024	P	10.7	
2	☐	2.000	1.972	5624.56	0.0048	P	5.0	-1.4
3	☐	5.000	4.713	9400.03	0.0080	P	7.7	-5.7
4	☐	10.000	9.989	16480.06	0.0142	P	0.9	-0.1
5	☐	100.000	98.088	133910.12	0.1176	P	4.0	-1.9
6	☐	200.000	200.964	264743.79	0.2384	P	1.9	0.5

y = 0.0012 * x + 0.0024
R = 0.9999
DL = 0.6662 ppb
BEC = 2.077 ppb

Weight: <None>
Min Conc: <None>

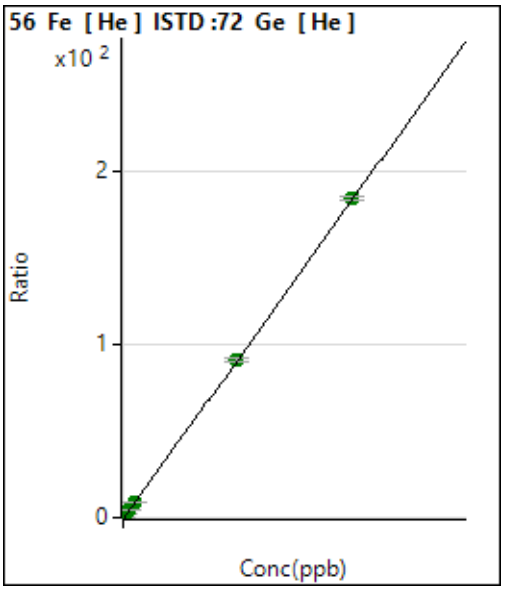


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	570.02	0.0005	P	11.1	
2	☐	2.000	1.916	17304.38	0.0146	P	2.2	-4.2
3	☐	5.000	4.783	42208.12	0.0358	P	3.5	-4.3
4	☐	10.000	9.867	85211.79	0.0733	P	2.9	-1.3
5	☐	100.000	97.664	820889.96	0.7209	P	2.1	-2.3
6	☐	200.000	201.181	1648454.09	1.4845	A	1.8	0.6

y = 0.0074 * x + 4.8393E-004
R = 0.9999
DL = 0.02178 ppb
BEC = 0.0656 ppb

Weight: <None>
Min Conc: <None>

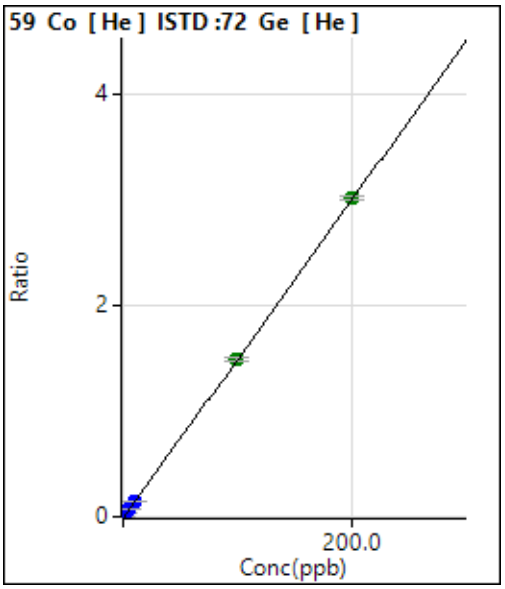
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18299.20	0.0155	P	2.8	
2	☐	200.000	192.844	2116630.39	1.7878	A	1.2	-3.6
3	☐	500.000	485.074	5279025.03	4.4735	A	1.8	-3.0
4	☐	1000.000	994.661	10650626.92	9.1566	A	1.7	-0.5
5	☐	10000.00	9920.174	103828568.4	91.1837	A	2.3	-0.8
6	☐	20000.00	20040.62	204529543.6	184.192	A	1.3	0.2

y = 0.0092 * x + 0.0155
R = 1.0000
DL = 0.1424 ppb
BEC = 1.691 ppb

Weight: <None>
Min Conc: <None>

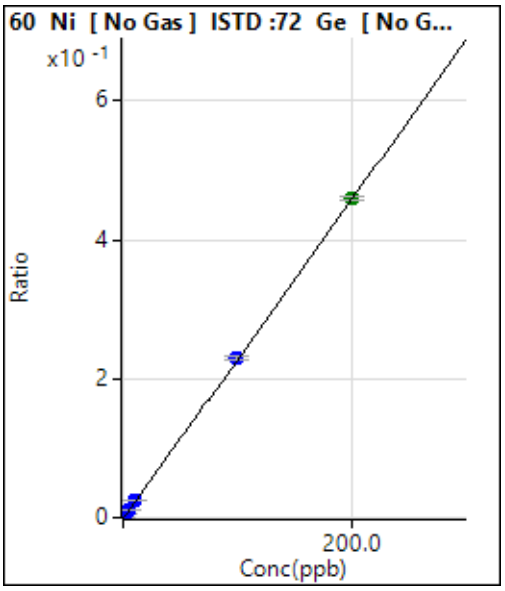


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0006	P	14.8	
2	☐	2.000	1.894	34463.48	0.0291	P	0.9	-5.3
3	☐	5.000	4.963	88959.04	0.0754	P	2.9	-0.7
4	☐	10.000	9.944	175054.83	0.1505	P	1.6	-0.6
5	☐	100.000	99.239	1704610.91	1.4970	A	2.6	-0.8
6	☐	200.000	200.385	3355907.55	3.0222	A	1.5	0.2

y = 0.0151 * x + 5.5189E-004
R = 1.0000
DL = 0.01627 ppb
BEC = 0.0366 ppb

Weight: <None>
Min Conc: <None>

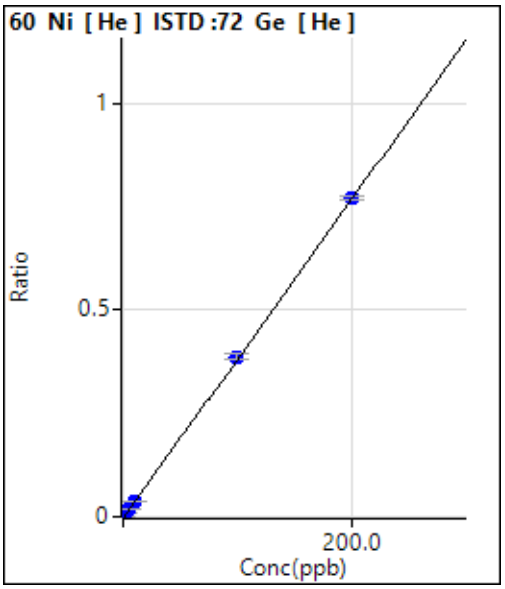
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1486.78	0.0004	P	3.2	
2	☐	2.000	2.050	20896.21	0.0051	P	5.7	2.5
3	☐	5.000	5.136	49860.20	0.0122	P	2.3	2.7
4	☐	10.000	10.239	96737.59	0.0239	P	0.3	2.4
5	☐	100.000	100.334	896167.85	0.2311	P	2.2	0.3
6	☐	200.000	199.817	1763000.29	0.4599	A	1.5	-0.1

y = 0.0023 * x + 3.6277E-004
R = 1.0000
DL = 0.01528 ppb
BEC = 0.1578 ppb

Weight: <None>
Min Conc: <None>

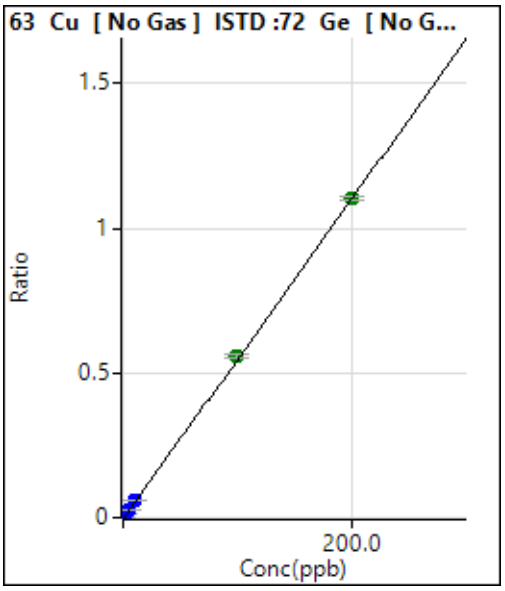


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	336.68	0.0003	P	6.9	
2	☐	2.000	1.950	9233.30	0.0078	P	1.8	-2.5
3	☐	5.000	5.048	23280.00	0.0197	P	3.0	1.0
4	☐	10.000	10.133	45733.01	0.0393	P	0.6	1.3
5	☐	100.000	100.173	439681.75	0.3861	P	3.2	0.2
6	☐	200.000	199.906	855346.16	0.7703	P	1.2	0.0

y = 0.0039 * x + 2.8601E-004
R = 1.0000
DL = 0.01536 ppb
BEC = 0.07425 ppb

Weight: <None>
Min Conc: <None>

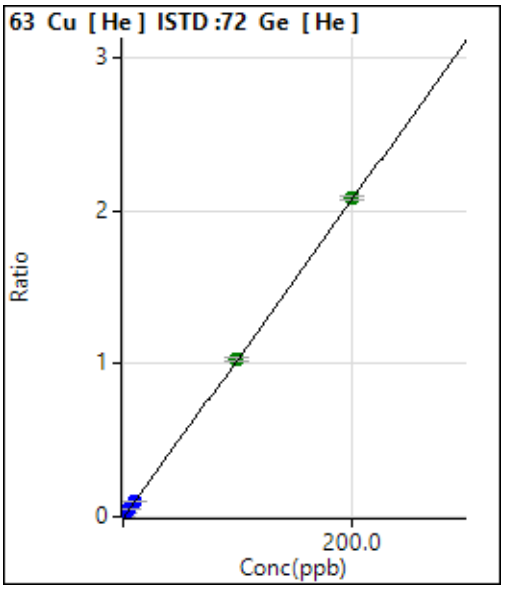
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1923.51	0.0005	P	4.6	
2	☐	2.000	2.115	50077.92	0.0122	P	1.8	5.7
3	☐	5.000	5.165	118910.60	0.0290	P	1.9	3.3
4	☐	10.000	10.437	235447.52	0.0582	P	0.6	4.4
5	☐	100.000	100.938	2166606.01	0.5587	A	1.8	0.9
6	☐	200.000	199.504	4231617.02	1.1037	A	1.5	-0.2

y = 0.0055 * x + 4.6936E-004
R = 1.0000
DL = 0.01178 ppb
BEC = 0.08487 ppb

Weight: <None>
Min Conc: <None>

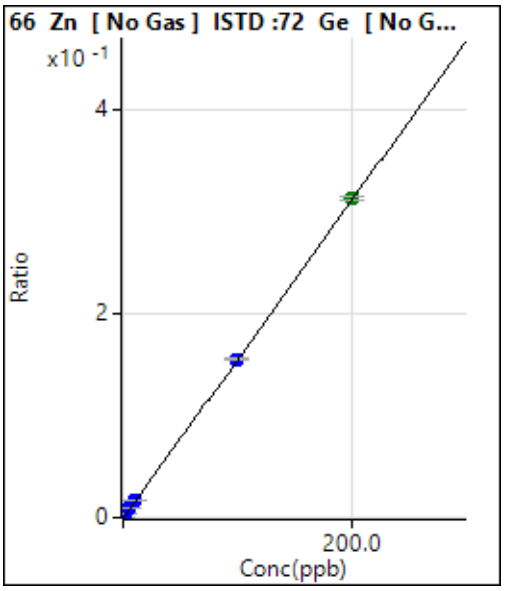


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.37	0.0007	P	3.1	
2	☐	2.000	1.943	24775.89	0.0209	P	0.9	-2.8
3	☐	5.000	4.891	60871.55	0.0516	P	2.3	-2.2
4	☐	10.000	10.000	121805.49	0.1047	P	1.6	0.0
5	☐	100.000	99.335	1177091.47	1.0338	A	2.8	-0.7
6	☐	200.000	200.336	2314158.40	2.0841	A	0.9	0.2

y = 0.0104 * x + 7.1626E-004
R = 1.0000
DL = 0.006386 ppb
BEC = 0.06887 ppb

Weight: <None>
Min Conc: <None>

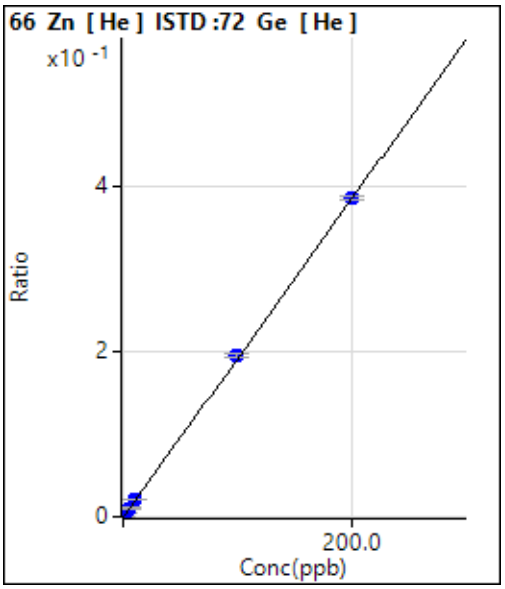
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3040.38	0.0007	P	2.4	
2	☐	2.000	2.388	18409.32	0.0045	P	1.4	19.4
3	☐	5.000	5.169	36111.22	0.0088	P	0.8	3.4
4	☐	10.000	10.015	66299.77	0.0164	P	2.5	0.2
5	☐	100.000	99.235	604032.56	0.1558	P	1.8	-0.8
6	☐	200.000	200.373	1202846.96	0.3137	A	1.5	0.2

y = 0.0016 * x + 7.4167E-004
R = 1.0000
DL = 0.03428 ppb
BEC = 0.4748 ppb

Weight: <None>
Min Conc: <None>

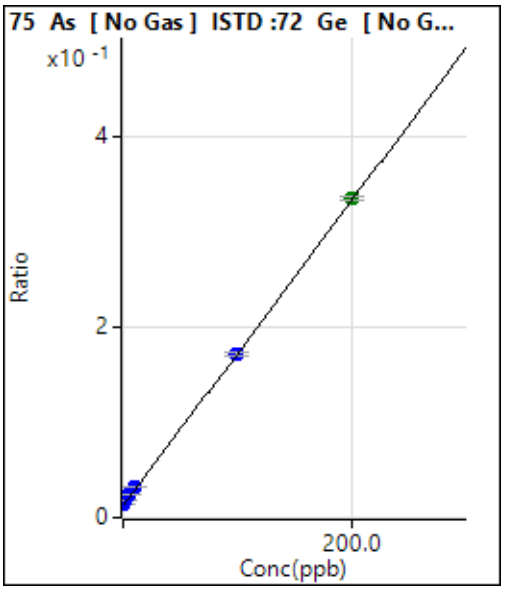


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.07	0.0010	P	4.0	
2	☐	2.000	2.396	6645.07	0.0056	P	5.2	19.8
3	☐	5.000	4.916	12369.09	0.0105	P	1.4	-1.7
4	☐	10.000	10.195	24051.38	0.0207	P	2.3	1.9
5	☐	100.000	100.670	222537.52	0.1954	P	1.8	0.7
6	☐	200.000	199.654	429295.78	0.3866	P	0.7	-0.2

y = 0.0019 * x + 9.8522E-004
R = 1.0000
DL = 0.06098 ppb
BEC = 0.5101 ppb

Weight: <None>
Min Conc: <None>

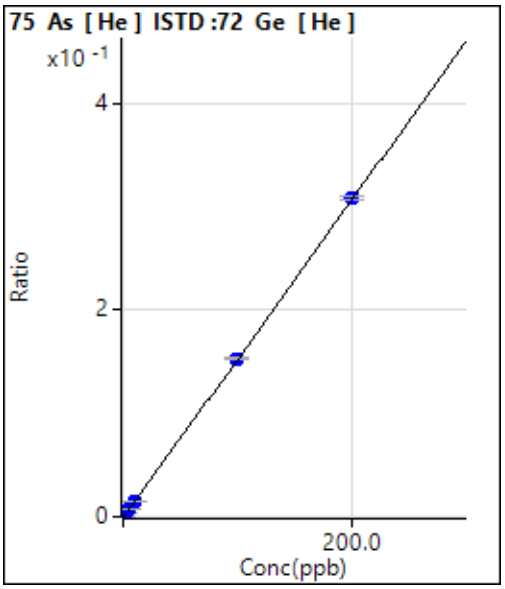
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	57748.96	0.0141	P	1.7	
2	☐	2.000	2.889	77077.08	0.0187	P	2.0	44.5
3	☐	5.000	6.260	98812.46	0.0241	P	0.7	25.2
4	☐	10.000	11.511	131676.97	0.0325	P	1.8	15.1
5	☐	100.000	98.892	669531.35	0.1726	P	2.4	-1.1
6	☐	200.000	200.438	1286103.57	0.3355	A	1.7	0.2

y = 0.0016 * x + 0.0141
R = 0.9999
DL = 0.4556 ppb
BEC = 8.786 ppb

Weight: <None>
Min Conc: <None>

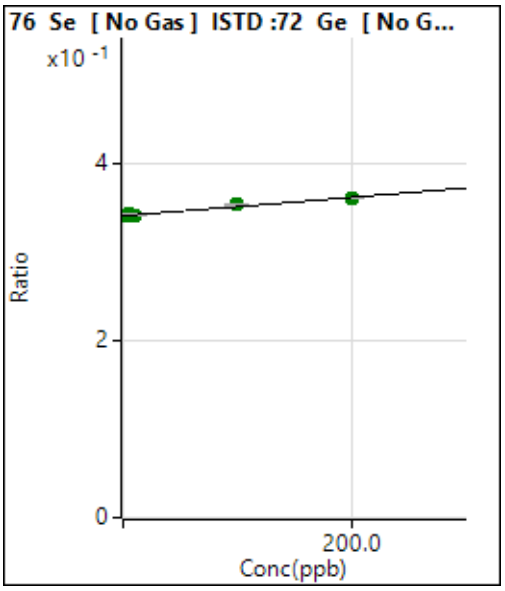


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	384.45	0.0003	P	8.6	
2	☐	2.000	1.903	3849.45	0.0033	P	1.8	-4.9
3	☐	5.000	4.990	9439.98	0.0080	P	1.2	-0.2
4	☐	10.000	9.800	17906.18	0.0154	P	2.2	-2.0
5	☐	100.000	99.215	174069.08	0.1529	P	1.8	-0.8
6	☐	200.000	200.404	342487.31	0.3084	P	0.7	0.2

y = 0.0015 * x + 3.2639E-004
R = 1.0000
DL = 0.05504 ppb
BEC = 0.2123 ppb

Weight: <None>
Min Conc: <None>

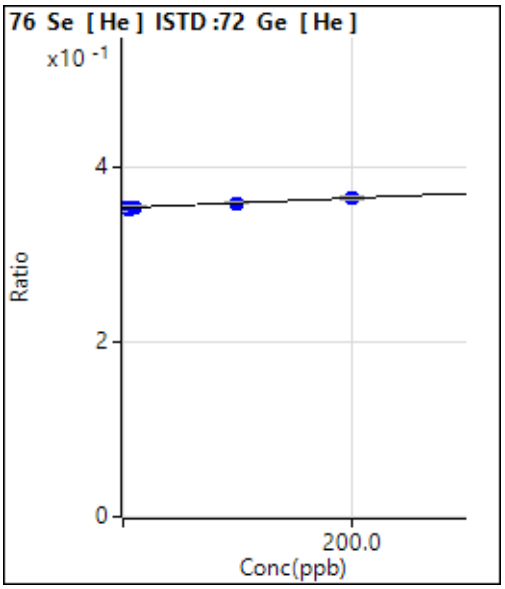
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1394924.09	0.3403	A	0.4	
2	☐	2.000	11.483	1406012.27	0.3415	A	0.6	474.2
3	☐	5.000	17.815	1401568.31	0.3422	A	0.4	256.3
4	☐	10.000	11.262	1381775.81	0.3415	A	0.4	12.6
5	☐	100.000	122.450	1369788.31	0.3532	A	0.5	22.4
6	☐	200.000	188.297	1380678.10	0.3601	A	0.3	-5.9

y = 1.0523E-004 * x + 0.3403
R = 0.9901
DL = 35.26 ppb
BEC = 3234 ppb

Weight: <None>
Min Conc: <None>

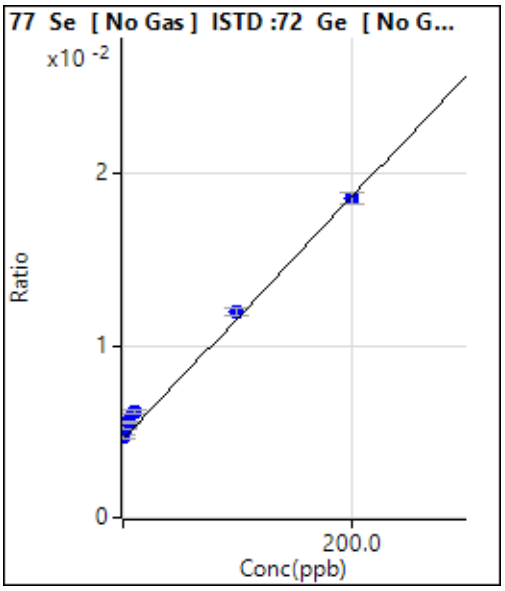


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	415837.52	0.3532	P	1.9	
2	☐	2.000	5.576	418439.47	0.3535	P	0.7	178.8
3	☐	5.000	-42.936	413916.10	0.3508	P	1.1	-958.7
4	☐	10.000	17.797	411977.18	0.3542	P	0.9	78.0
5	☐	100.000	99.665	408551.40	0.3588	P	0.7	-0.3
6	☐	200.000	200.940	404654.04	0.3644	P	0.8	0.5

y = 5.6107E-005 * x + 0.3532
R = 0.9736
DL = 359.6 ppb
BEC = 6295 ppb

Weight: <None>
Min Conc: <None>

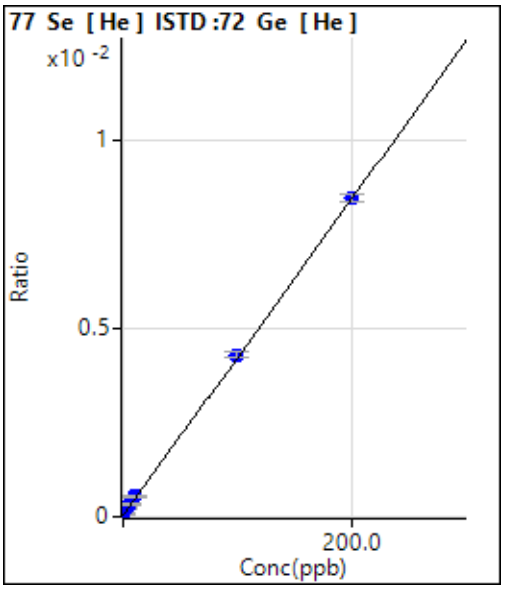
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19157.18	0.0047	P	4.3	
2	☐	2.000	7.500	21410.47	0.0052	P	1.3	275.0
3	☐	5.000	12.322	22692.50	0.0055	P	2.2	146.4
4	☐	10.000	20.557	24759.52	0.0061	P	4.0	105.6
5	☐	100.000	103.342	46328.95	0.0119	P	3.3	3.3
6	☐	200.000	197.563	71229.20	0.0186	P	3.2	-1.2

y = 7.0384E-005 * x + 0.0047
R = 0.9990
DL = 8.612 ppb
BEC = 66.39 ppb

Weight: <None>
Min Conc: <None>

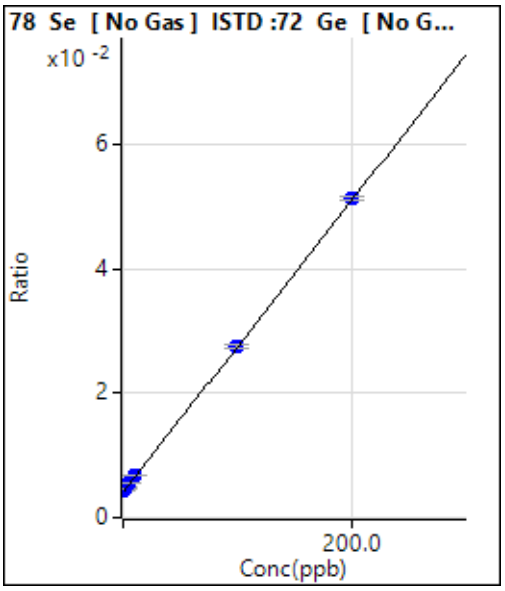


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	39.9	
2	☐	2.000	3.545	266.68	0.0002	P	21.7	77.3
3	☐	5.000	5.708	373.35	0.0003	P	15.5	14.2
4	☐	10.000	11.287	640.03	0.0006	P	8.9	12.9
5	☐	100.000	100.505	4894.31	0.0043	P	3.8	0.5
6	☐	200.000	199.650	9396.77	0.0085	P	2.0	-0.2

y = 4.2009E-005 * x + 7.6425E-005
R = 1.0000
DL = 2.177 ppb
BEC = 1.819 ppb

Weight: <None>
Min Conc: <None>

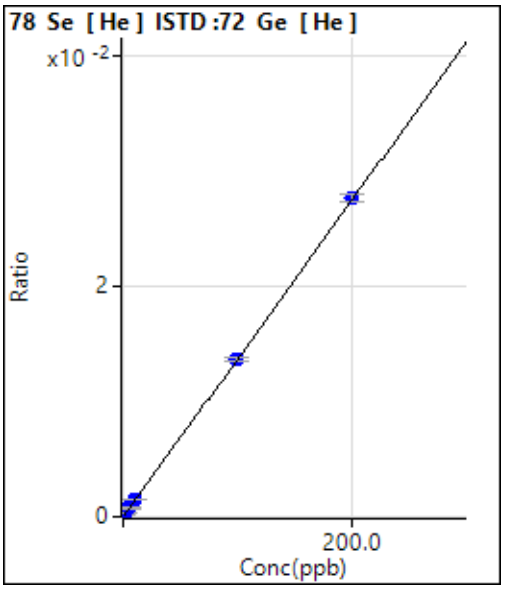
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17875.30	0.0044	P	1.8	
2	☐	2.000	1.741	19631.10	0.0048	P	1.8	-12.9
3	☐	5.000	4.799	22468.77	0.0055	P	0.9	-4.0
4	☐	10.000	10.086	27210.80	0.0067	P	0.6	0.9
5	☐	100.000	99.078	106987.36	0.0276	P	2.4	-0.9
6	☐	200.000	200.464	196896.55	0.0514	P	1.2	0.2

y = 2.3444E-004 * x + 0.0044
R = 1.0000
DL = 1.015 ppb
BEC = 18.6 ppb

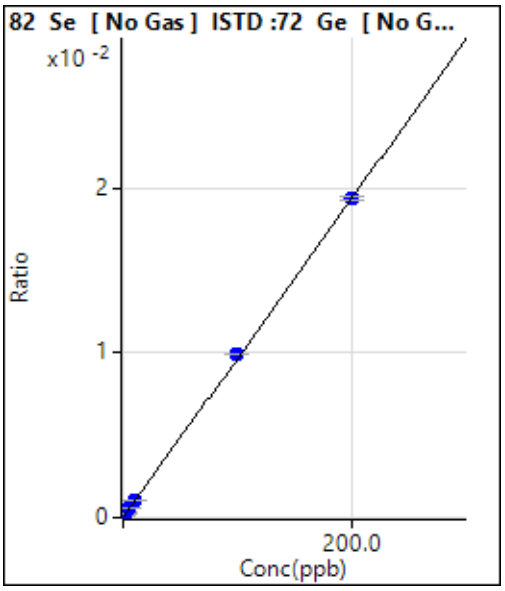
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0001	P	3.0	
2	☐	2.000	1.967	461.34	0.0004	P	6.9	-1.6
3	☐	5.000	4.745	910.03	0.0008	P	6.0	-5.1
4	☐	10.000	9.951	1730.78	0.0015	P	3.7	-0.5
5	☐	100.000	98.745	15602.27	0.0137	P	2.4	-1.3
6	☐	200.000	200.637	30777.30	0.0277	P	2.2	0.3

y = 1.3756E-004 * x + 1.1890E-004
R = 1.0000
DL = 0.0789 ppb
BEC = 0.8644 ppb

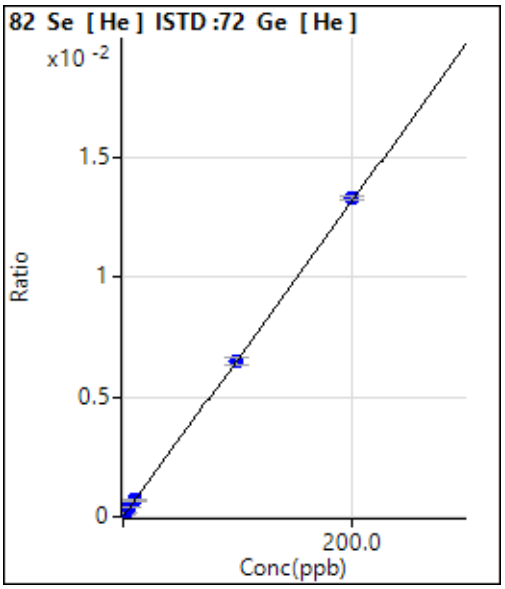
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	5.1	
2	☐	2.000	1.873	1173.40	0.0003	P	13.4	-6.4
3	☐	5.000	5.311	2530.28	0.0006	P	0.9	6.2
4	☐	10.000	10.100	4374.11	0.0011	P	3.0	1.0
5	☐	100.000	101.619	38521.55	0.0099	P	0.2	1.6
6	☐	200.000	199.179	74255.89	0.0194	P	0.8	-0.4

y = 9.6719E-005 * x + 1.0410E-004
R = 1.0000
DL = 0.1647 ppb
BEC = 1.076 ppb

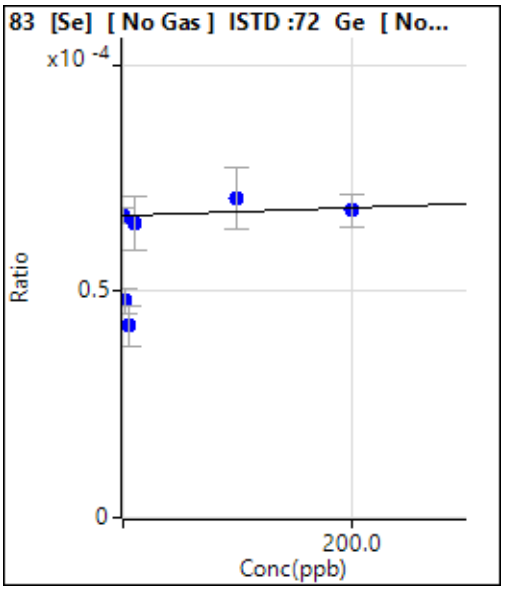
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	37.1	
2	☐	2.000	1.234	176.67	0.0001	P	10.3	-38.3
3	☐	5.000	5.282	490.02	0.0004	P	9.9	5.6
4	☐	10.000	9.848	833.37	0.0007	P	10.6	-1.5
5	☐	100.000	97.429	7378.80	0.0065	P	5.2	-2.6
6	☐	200.000	201.294	14784.92	0.0133	P	1.5	0.6

y = 6.5812E-005 * x + 6.7852E-005
R = 0.9999
DL = 1.148 ppb
BEC = 1.031 ppb

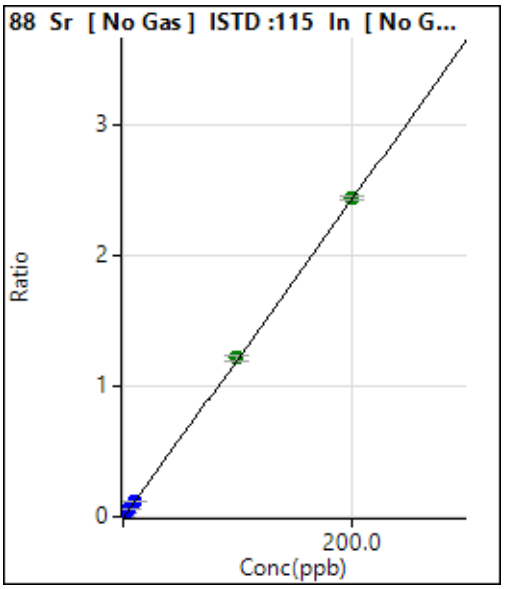
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0001	P	4.8	
2	☐	2.000	-2125.11	196.67	0.0000	P	11.5	-106356.
3	☐	5.000	-2745.31	173.34	0.0000	P	21.6	-55006.2
4	☐	10.000	-176.403	263.34	0.0001	P	18.2	-1864.0
5	☐	100.000	433.320	273.34	0.0001	P	18.8	333.3
6	☐	200.000	132.689	260.01	0.0001	P	10.7	-33.7

y = 8.8770E-009 * x + 6.6668E-005
R = 0.5250
DL = 1083 ppb
BEC = 7510 ppb

Weight: <None>
Min Conc: <None>

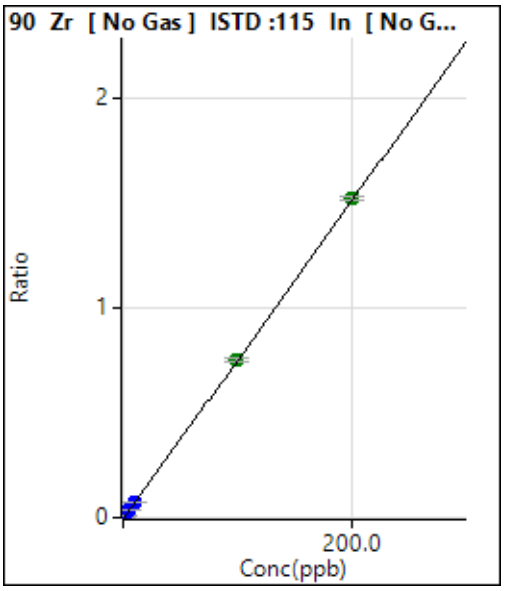


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3467.18	0.0006	P	8.1	
2	☐	2.000	1.989	134213.36	0.0248	P	1.5	-0.6
3	☐	5.000	4.841	323450.76	0.0596	P	1.4	-3.2
4	☐	10.000	9.592	634164.55	0.1174	P	1.7	-4.1
5	☐	100.000	99.563	6249461.99	1.2123	A	3.1	-0.4
6	☐	200.000	200.243	12414274.82	2.4376	A	1.0	0.1

y = 0.0122 * x + 6.3423E-004
R = 1.0000
DL = 0.01262 ppb
BEC = 0.05211 ppb

Weight: <None>
Min Conc: <None>

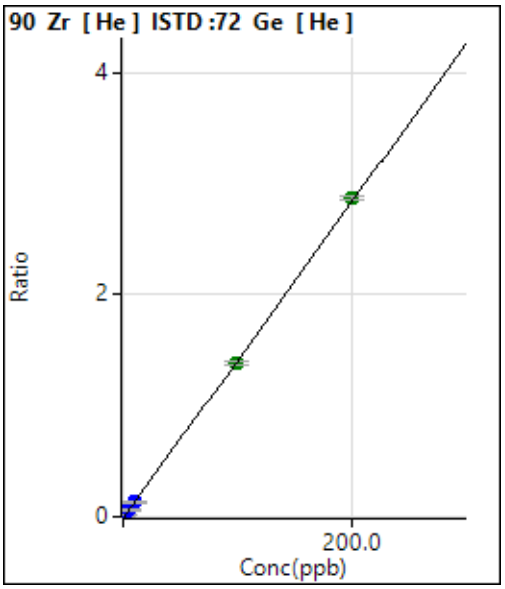
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1356.76	0.0002	P	12.9	
2	☐	2.000	1.645	68898.79	0.0127	P	1.9	-17.8
3	☐	5.000	4.362	181428.50	0.0334	P	0.6	-12.8
4	☐	10.000	9.175	378157.39	0.0700	P	1.4	-8.3
5	☐	100.000	98.724	3869658.69	0.7507	A	2.9	-1.3
6	☐	200.000	200.699	7770539.05	1.5258	A	1.1	0.3

y = 0.0076 * x + 2.4823E-004
R = 1.0000
DL = 0.01266 ppb
BEC = 0.03266 ppb

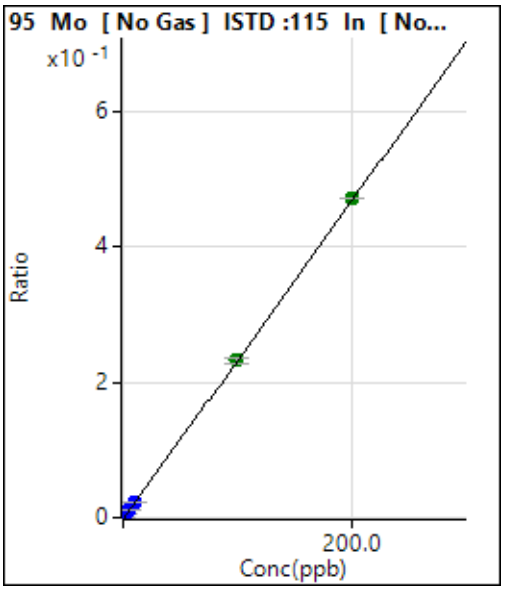
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1680.13	0.0014	P	4.9	
2	☐	2.000	1.571	28176.43	0.0238	P	2.1	-21.5
3	☐	5.000	4.180	71934.31	0.0610	P	2.1	-16.4
4	☐	10.000	9.080	152082.92	0.1307	P	2.7	-9.2
5	☐	100.000	96.884	1572687.27	1.3812	A	2.7	-3.1
6	☐	200.000	201.629	3190047.98	2.8729	A	1.6	0.8

y = 0.0142 * x + 0.0014
R = 0.9998
DL = 0.01476 ppb
BEC = 0.1002 ppb

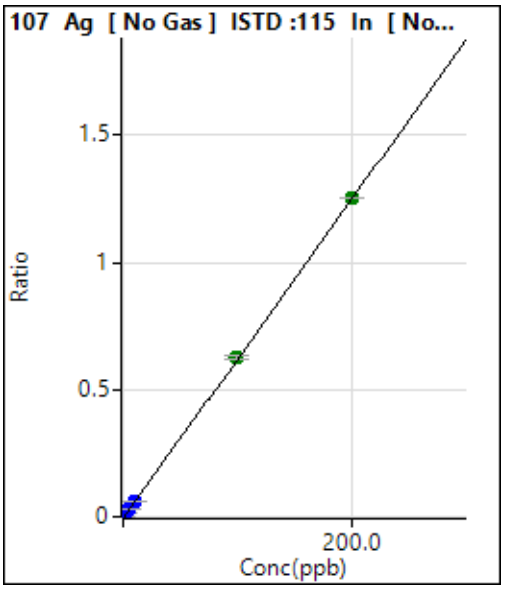
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0000	P	45.6	
2	☐	2.000	1.982	25354.24	0.0047	P	3.6	-0.9
3	☐	5.000	4.844	61999.25	0.0114	P	1.9	-3.1
4	☐	10.000	9.866	125420.09	0.0232	P	2.4	-1.3
5	☐	100.000	98.611	1194393.78	0.2317	A	2.6	-1.4
6	☐	200.000	200.706	2401501.16	0.4715	A	0.1	0.4

y = 0.0023 * x + 3.5413E-005
R = 1.0000
DL = 0.02063 ppb
BEC = 0.01507 ppb

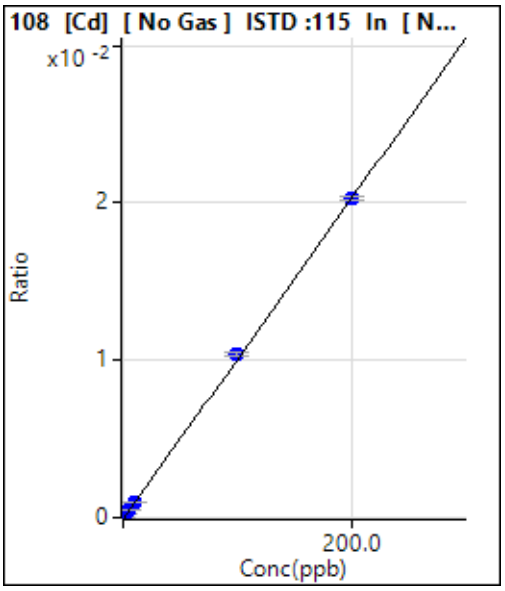
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.38	0.0002	P	8.1	
2	☐	2.000	2.025	69463.52	0.0129	P	2.8	1.3
3	☐	5.000	5.027	172063.10	0.0317	P	1.7	0.5
4	☐	10.000	10.121	343805.45	0.0636	P	1.1	1.2
5	☐	100.000	100.245	3241620.37	0.6288	A	2.8	0.2
6	☐	200.000	199.870	6384405.32	1.2536	A	0.6	-0.1

y = 0.0063 * x + 1.5427E-004
R = 1.0000
DL = 0.005997 ppb
BEC = 0.0246 ppb

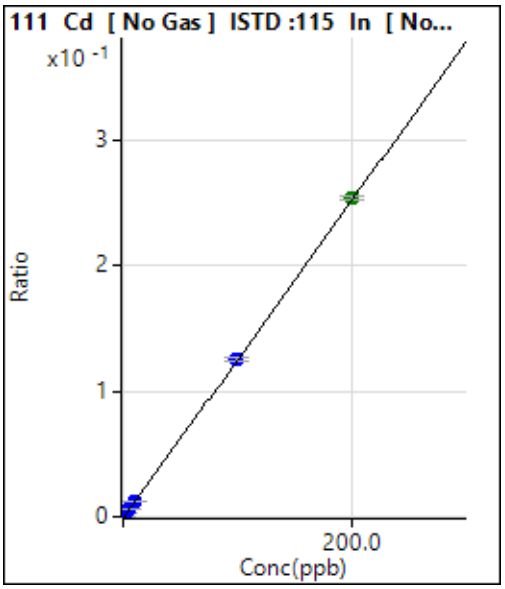
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	1.995	1106.74	0.0002	P	13.3	-0.3
3	☐	5.000	4.879	2710.33	0.0005	P	0.8	-2.4
4	☐	10.000	10.130	5591.27	0.0010	P	0.7	1.3
5	☐	100.000	101.970	53637.82	0.0104	P	2.0	2.0
6	☐	200.000	199.012	103414.66	0.0203	P	0.9	-0.5

y = 1.0203E-004 * x + 1.2162E-006
R = 0.9999
DL = 0.06194 ppb
BEC = 0.01192 ppb

Weight: <None>
Min Conc: <None>

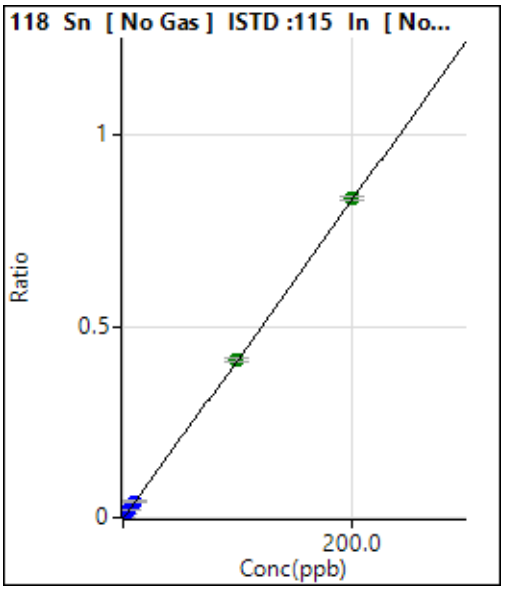


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.18	0.0000	P	181.1	
2	☐	2.000	1.981	13574.23	0.0025	P	9.1	-1.0
3	☐	5.000	4.959	34133.56	0.0063	P	2.5	-0.8
4	☐	10.000	9.756	66792.22	0.0124	P	3.1	-2.4
5	☐	100.000	98.615	643980.48	0.1249	P	2.3	-1.4
6	☐	200.000	200.706	1294841.88	0.2542	A	1.0	0.4

y = 0.0013 * x + 2.9543E-006
R = 1.0000
DL = 0.01267 ppb
BEC = 0.002332 ppb

Weight: <None>
Min Conc: <None>

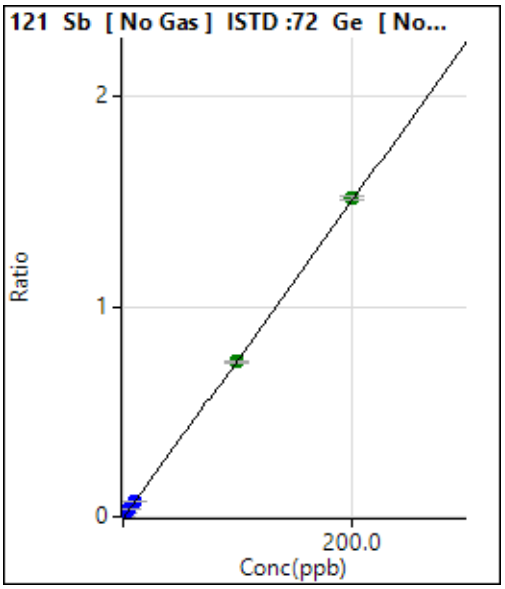
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6124.86	0.0011	P	4.1	
2	☐	2.000	2.069	52568.32	0.0097	P	3.0	3.5
3	☐	5.000	4.943	117741.68	0.0217	P	1.8	-1.1
4	☐	10.000	9.970	230119.40	0.0426	P	1.9	-0.3
5	☐	100.000	99.084	2130163.56	0.4132	A	1.9	-0.9
6	☐	200.000	200.460	4251728.27	0.8348	A	1.5	0.2

y = 0.0042 * x + 0.0011
R = 1.0000
DL = 0.03341 ppb
BEC = 0.2694 ppb

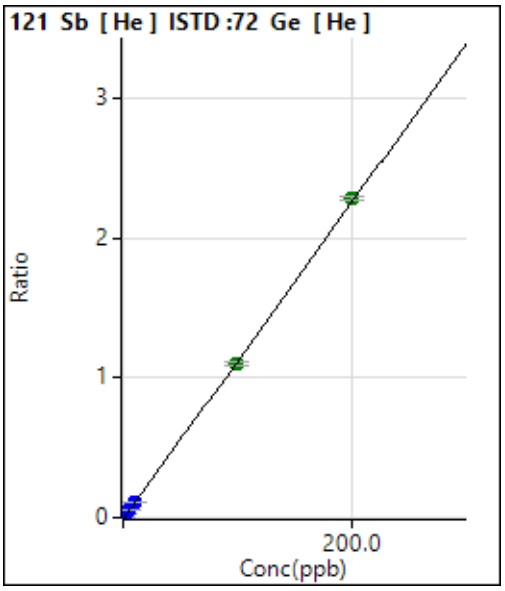
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.01	0.0001	P	10.5	
2	☐	2.000	1.983	62045.06	0.0151	P	1.4	-0.9
3	☐	5.000	4.990	154660.79	0.0378	P	0.9	-0.2
4	☐	10.000	10.053	307370.92	0.0760	P	1.5	0.5
5	☐	100.000	97.899	2865220.27	0.7388	A	1.6	-2.1
6	☐	200.000	201.048	5816531.79	1.5171	A	1.8	0.5

y = 0.0075 * x + 1.0981E-004
R = 0.9999
DL = 0.00459 ppb
BEC = 0.01455 ppb

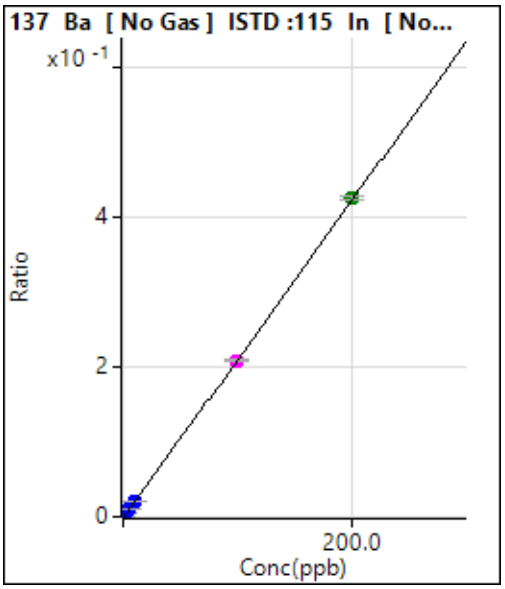
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0002	P	19.9	
2	☐	2.000	1.877	25494.88	0.0215	P	1.3	-6.1
3	☐	5.000	4.788	64389.44	0.0546	P	2.2	-4.2
4	☐	10.000	9.820	129844.74	0.1116	P	2.6	-1.8
5	☐	100.000	96.637	1248588.89	1.0965	A	2.5	-3.4
6	☐	200.000	201.697	2540939.80	2.2883	A	1.2	0.8

y = 0.0113 * x + 2.4049E-004
R = 0.9998
DL = 0.01265 ppb
BEC = 0.0212 ppb

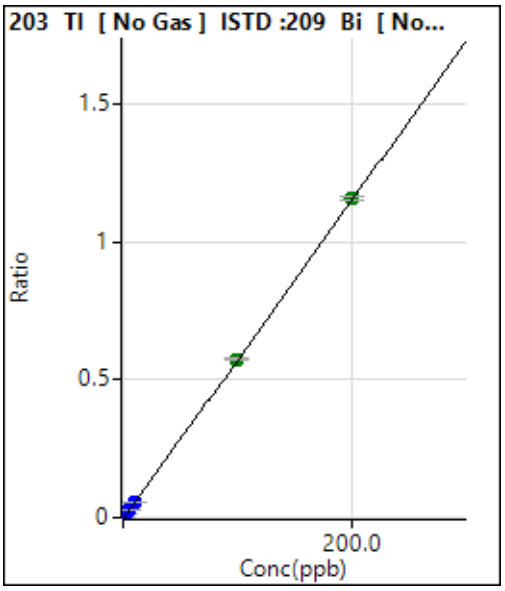
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0002	P	12.4	
2	☐	2.000	2.214	26276.57	0.0049	P	2.4	10.7
3	☐	5.000	4.861	56920.11	0.0105	P	2.0	-2.8
4	☐	10.000	9.803	113295.91	0.0210	P	1.4	-2.0
5	☐	100.000	98.448	1077914.15	0.2091	M	1.8	-1.6
6	☐	200.000	200.787	2171018.98	0.4263	A	1.2	0.4

y = 0.0021 * x + 1.6343E-004
R = 1.0000
DL = 0.02857 ppb
BEC = 0.07701 ppb

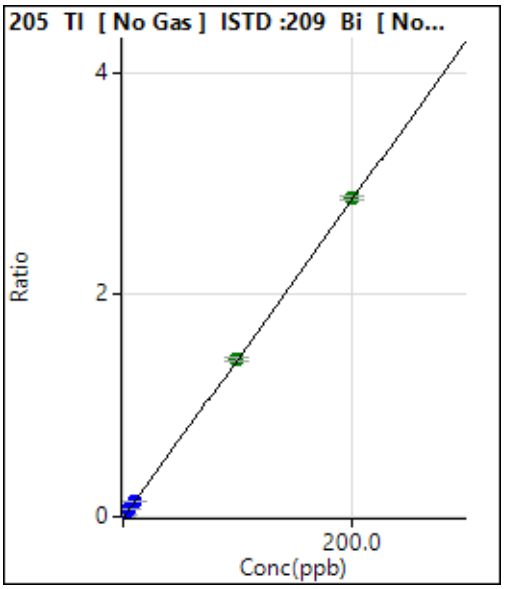
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1230.09	0.0002	P	1.3	
2	☐	2.000	1.807	61355.70	0.0107	P	1.0	-9.7
3	☐	5.000	4.760	161845.36	0.0278	P	1.3	-4.8
4	☐	10.000	9.818	328100.53	0.0570	P	0.2	-1.8
5	☐	100.000	99.166	3206285.79	0.5742	A	1.4	-0.8
6	☐	200.000	200.434	6377438.24	1.1603	A	1.3	0.2

y = 0.0058 * x + 2.1599E-004
R = 1.0000
DL = 0.001412 ppb
BEC = 0.03732 ppb

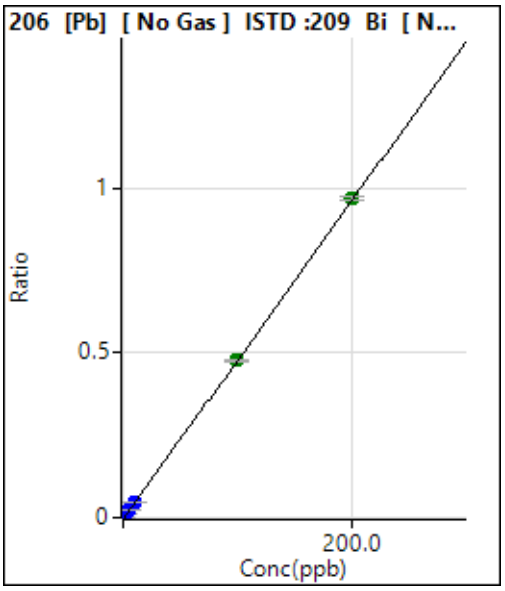
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2840.38	0.0005	P	6.7	
2	☐	2.000	1.742	146130.02	0.0254	P	1.0	-12.9
3	☐	5.000	4.615	387799.11	0.0665	P	0.6	-7.7
4	☐	10.000	9.477	782940.41	0.1361	P	0.9	-5.2
5	☐	100.000	99.068	7919079.46	1.4181	A	1.6	-0.9
6	☐	200.000	200.504	15772541.85	2.8697	A	0.9	0.3

y = 0.0143 * x + 4.9888E-004
R = 1.0000
DL = 0.007026 ppb
BEC = 0.03486 ppb

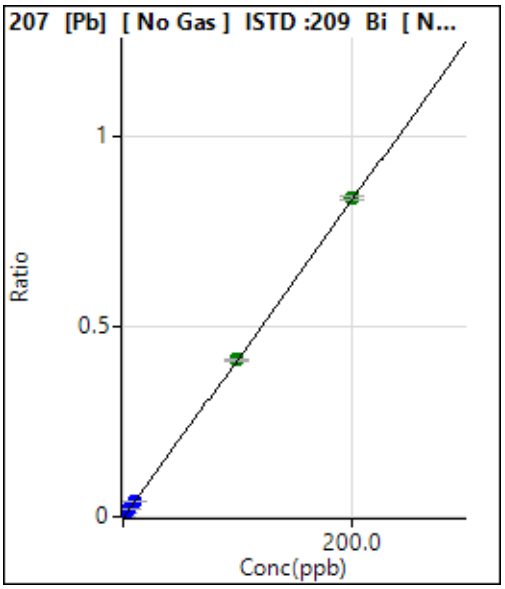
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1390.11	0.0002	P	10.9	
2	☐	2.000	1.910	54441.76	0.0095	P	0.9	-4.5
3	☐	5.000	4.875	138674.39	0.0238	P	0.6	-2.5
4	☐	10.000	9.894	276350.48	0.0480	P	0.8	-1.1
5	☐	100.000	98.626	2662080.06	0.4767	A	1.1	-1.4
6	☐	200.000	200.696	5330407.42	0.9698	A	1.4	0.3

y = 0.0048 * x + 2.4425E-004
R = 1.0000
DL = 0.01653 ppb
BEC = 0.05056 ppb

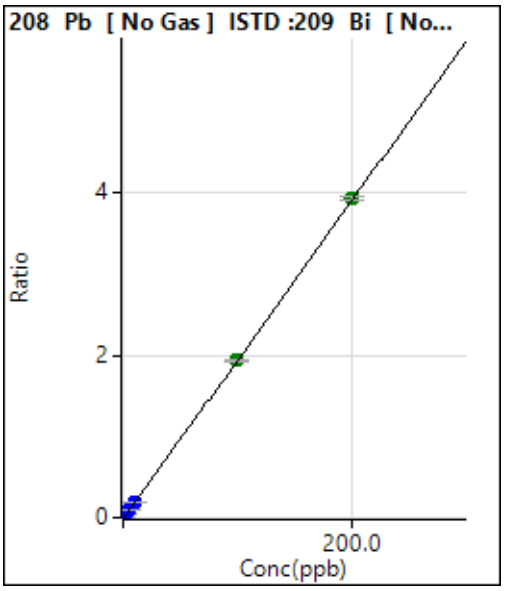
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1326.76	0.0002	P	13.0	
2	☐	2.000	1.949	48199.16	0.0084	P	1.9	-2.6
3	☐	5.000	4.888	120537.44	0.0207	P	1.9	-2.2
4	☐	10.000	9.882	239120.22	0.0416	P	0.8	-1.2
5	☐	100.000	98.681	2306490.44	0.4130	A	1.1	-1.3
6	☐	200.000	200.669	4615146.80	0.8397	A	1.5	0.3

y = 0.0042 * x + 2.3280E-004
R = 1.0000
DL = 0.02164 ppb
BEC = 0.05565 ppb

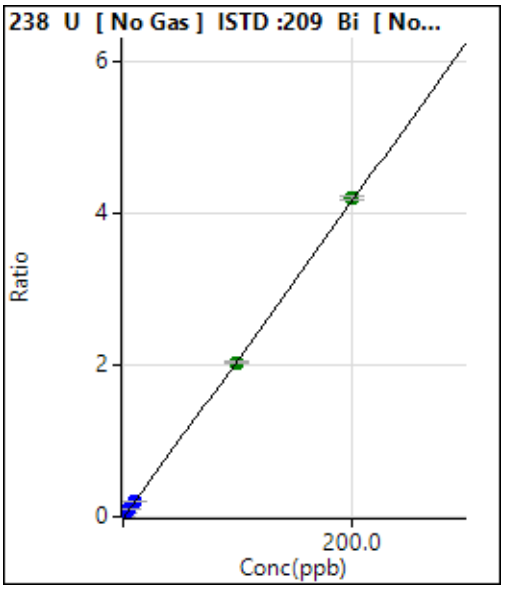
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5820.65	0.0010	P	2.9	
2	☐	2.000	1.914	221755.03	0.0386	P	0.4	-4.3
3	☐	5.000	4.805	555429.51	0.0953	P	0.8	-3.9
4	☐	10.000	9.701	1100723.80	0.1914	P	0.9	-3.0
5	☐	100.000	98.819	10833656.04	1.9401	A	0.9	-1.2
6	☐	200.000	200.611	21641126.13	3.9374	A	1.3	0.3

y = 0.0196 * x + 0.0010
R = 1.0000
DL = 0.004475 ppb
BEC = 0.05209 ppb

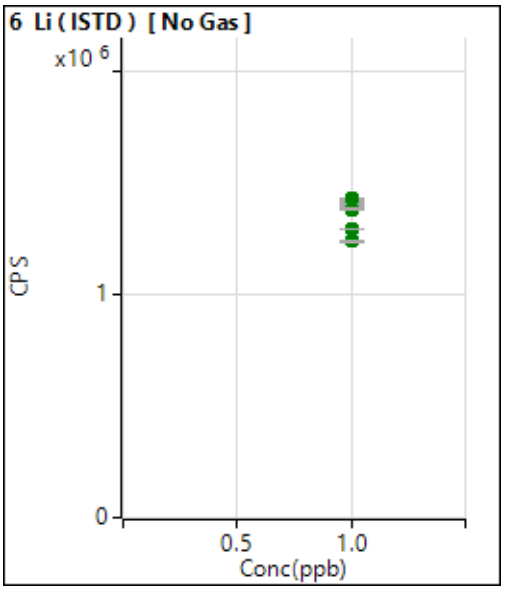
Weight: <None>
Min Conc: <None>



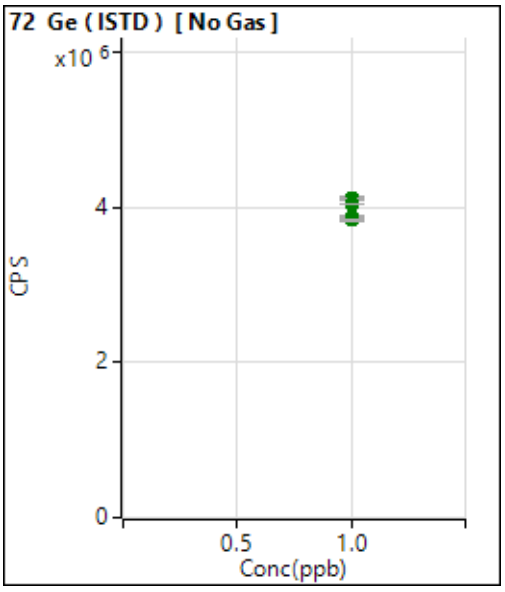
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4307.51	0.0008	P	3.9	
2	☐	2.000	1.823	223408.42	0.0389	P	1.3	-8.9
3	☐	5.000	4.578	562286.40	0.0965	P	0.8	-8.4
4	☐	10.000	9.238	1115451.42	0.1939	P	1.1	-7.6
5	☐	100.000	97.520	11391080.25	2.0399	A	1.0	-2.5
6	☐	200.000	201.291	23138007.15	4.2097	A	1.6	0.6

y = 0.0209 * x + 7.5650E-004
R = 0.9999
DL = 0.004286 ppb
BEC = 0.03618 ppb

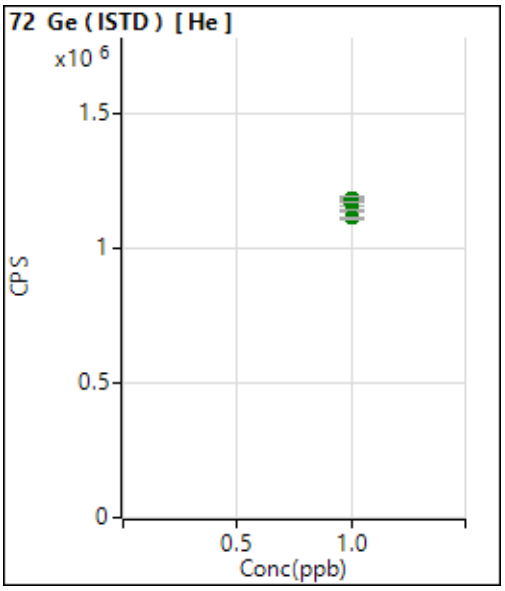
Weight: <None>
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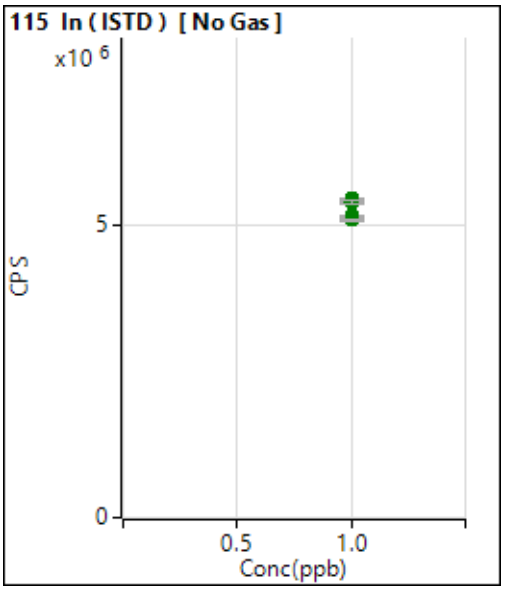
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1432988.15		A	0.6	
2	☐	1.000		1422407.92		A	0.4	
3	☐	1.000		1405542.21		A	0.4	
4	☐	1.000		1384224.02		A	0.7	
5	☐	1.000		1292698.36		A	0.2	
6	☐	1.000		1239713.30		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4099067.23		A	0.8	
2	☐	1.000		4117109.21		A	0.9	
3	☐	1.000		4095960.36		A	0.5	
4	☐	1.000		4046244.73		A	0.3	
5	☐	1.000		3878311.09		A	0.5	
6	☐	1.000		3833939.11		A	0.6	

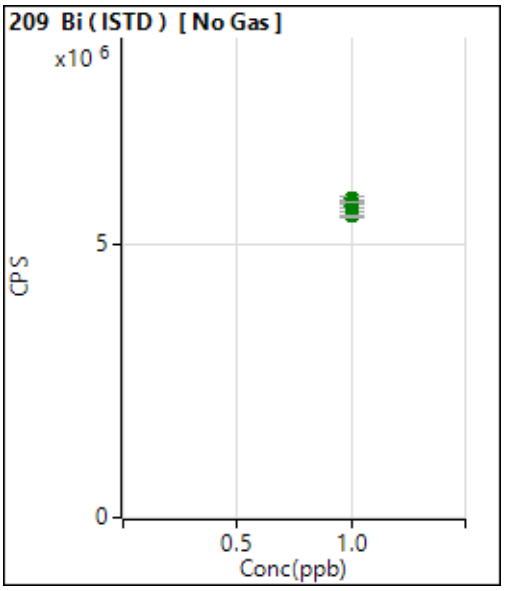


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177508.26		A	0.7	
2	☐	1.000		1183818.29		A	1.4	
3	☐	1.000		1180155.40		A	1.8	
4	☐	1.000		1163171.26		A	1.1	
5	☐	1.000		1138806.67		A	0.9	
6	☐	1.000		1110352.72		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5466008.96		A	0.4	
2	☐	1.000		5404327.92		A	0.5	
3	☐	1.000		5431307.58		A	0.3	
4	☐	1.000		5403499.29		A	0.8	
5	☐	1.000		5155412.32		A	0.5	
6	☐	1.000		5092861.04		A	0.5	

Calibration for 218_ICV.d

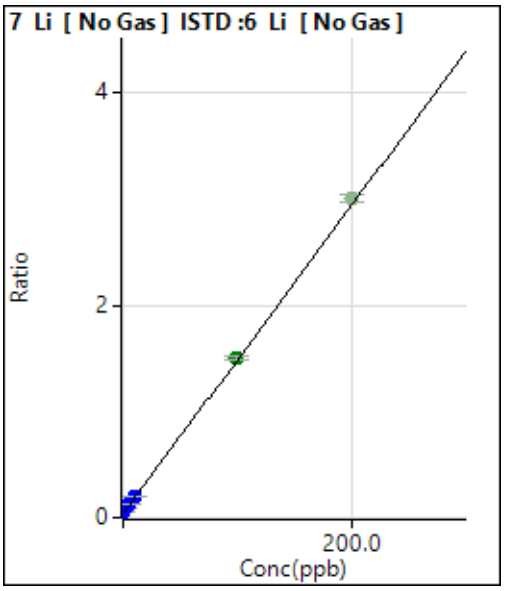


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5695482.21		A	1.0	
2	☐	1.000		5747471.37		A	1.2	
3	☐	1.000		5827952.62		A	1.0	
4	☐	1.000		5751858.45		A	0.2	
5	☐	1.000		5584293.25		A	0.4	
6	☐	1.000		5496197.21		A	0.2	

Calibration for 123_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

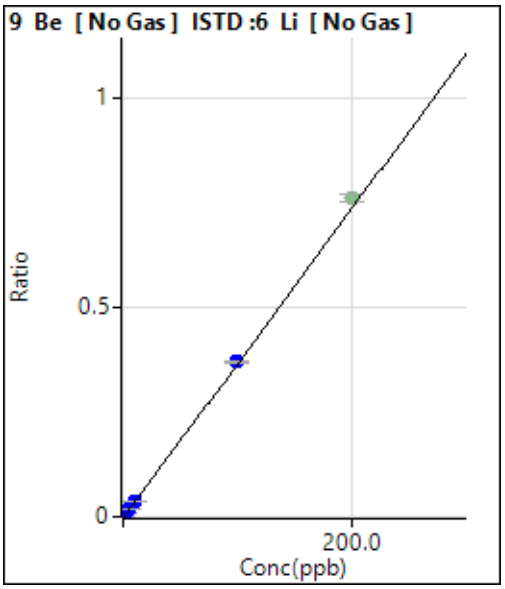
Level	Standard Data File	Sample Name	Acq. Date-Time
1	116CALB.d	CAL BLK	6/25/2024 3:47:08 PM
2	117CALS.d	2/10/200	6/25/2024 3:49:38 PM
3	118CALS.d	5/25/500	6/25/2024 3:52:08 PM
4	119CALS.d	10/50/100	6/25/2024 3:54:39 PM
5	120CALS.d	100/500/10K	6/25/2024 3:57:08 PM
6	121CALS.d	200/1000/20K	6/25/2024 3:59:38 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	91003.24	0.0543	P	0.5	
2	☐	2.000	1.967	135801.46	0.0828	P	1.3	-1.6
3	☐	5.000	4.954	204053.63	0.1261	P	0.4	-0.9
4	☐	10.000	10.038	314748.84	0.1998	P	1.3	0.4
5	☐	100.000	99.999	2252302.10	1.5043	A	2.2	0.0
6	☑	200.000		4295084.10	3.0049	A	2.0	

y = 0.0145 * x + 0.0543
R = 1.0000
DL = 0.0599 ppb
BEC = 3.744 ppb

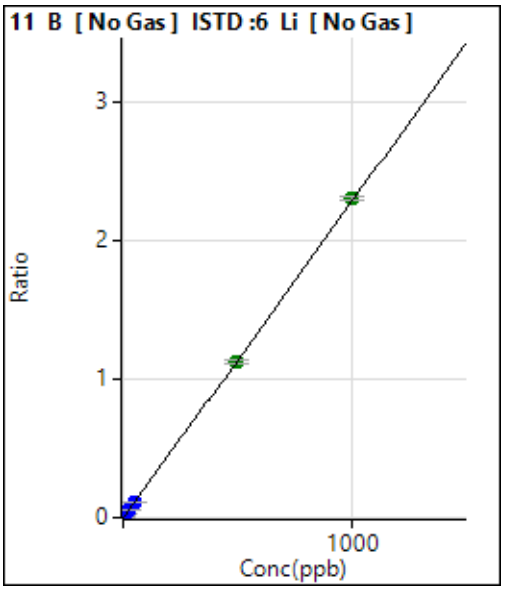
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230.00	0.0001	P	27.7	
2	☐	2.000	1.902	11771.61	0.0072	P	2.0	-4.9
3	☐	5.000	4.830	29161.52	0.0180	P	1.0	-3.4
4	☐	10.000	9.798	57351.63	0.0364	P	4.0	-2.0
5	☐	100.000	100.031	554805.86	0.3705	P	1.7	0.0
6	☑	200.000		1090310.09	0.7628	A	1.9	

y = 0.0037 * x + 1.3710E-004
R = 1.0000
DL = 0.03077 ppb
BEC = 0.03702 ppb

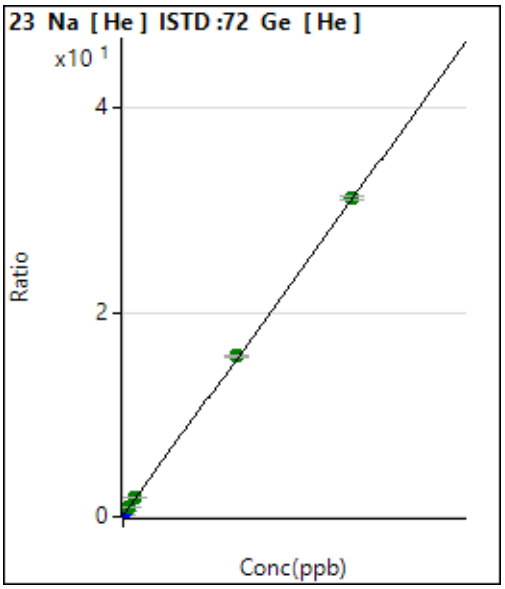
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11521.41	0.0069	P	2.4	
2	☐	10.000	9.636	47375.21	0.0289	P	0.6	-3.6
3	☐	25.000	23.398	97622.44	0.0603	P	0.4	-6.4
4	☐	50.000	48.118	183988.66	0.1168	P	1.7	-3.8
5	☐	500.000	488.824	1682650.81	1.1238	A	1.8	-2.2
6	☐	1000.000	1005.726	3294655.99	2.3049	A	1.1	0.6

y = 0.0023 * x + 0.0069
R = 0.9999
DL = 0.2126 ppb
BEC = 3.008 ppb

Weight: <None>
Min Conc: <None>

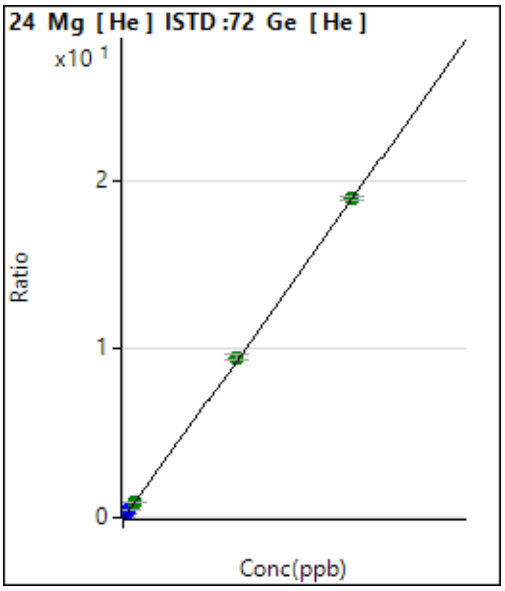


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	321941.48	0.2767	P	1.6	
2	☐	200.000	183.255	654923.78	0.5599	P	1.4	-8.4
3	☐	500.000	471.113	1164116.52	1.0047	A	2.3	-5.8
4	☐	1000.000	997.823	2070850.23	1.8185	A	0.5	-0.2
5	☐	10000.00	9980.713	17609042.24	15.6978	A	2.2	-0.2
6	☐	20000.00	20010.64	34254962.82	31.1950	A	1.2	0.1

y = 0.0015 * x + 0.2767
R = 1.0000
DL = 8.492 ppb
BEC = 179.1 ppb

Weight: <None>
Min Conc: <None>

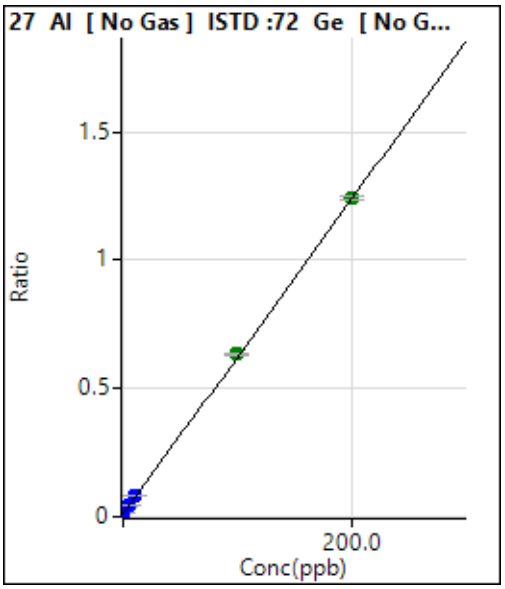
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0008	P	5.2	
2	☐	200.000	192.523	214489.24	0.1834	P	1.6	-3.7
3	☐	500.000	481.411	529997.76	0.4574	P	3.7	-3.7
4	☐	1000.000	1014.470	1096589.41	0.9630	A	0.1	1.4
5	☐	10000.00	10047.61	10690653.17	9.5306	A	2.5	0.5
6	☐	20000.00	19976.00	20805941.36	18.9473	A	1.1	-0.1

y = 9.4846E-004 * x + 7.6806E-004
R = 1.0000
DL = 0.1266 ppb
BEC = 0.8098 ppb

Weight: <None>
Min Conc: <None>

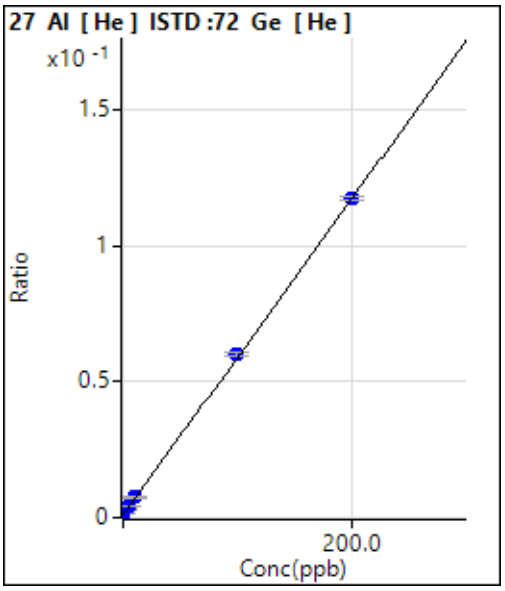


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	64770.12	0.0159	P	1.7	
2	☐	2.000	2.991	140429.14	0.0343	P	1.0	49.6
3	☐	5.000	5.018	190061.91	0.0467	P	2.1	0.4
4	☐	10.000	10.353	320636.44	0.0795	P	1.2	3.5
5	☐	100.000	100.702	2479820.07	0.6349	A	1.6	0.7
6	☐	200.000	199.621	4792184.20	1.2430	A	1.8	-0.2

y = 0.0061 * x + 0.0159
R = 1.0000
DL = 0.1281 ppb
BEC = 2.583 ppb

Weight: <None>
Min Conc: <None>

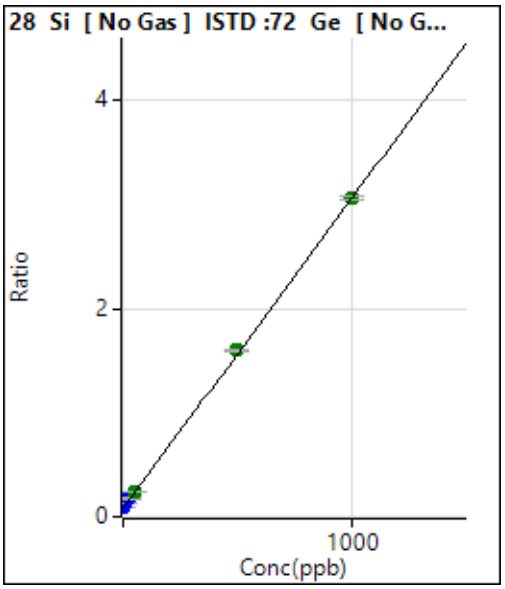
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1796.82	0.0015	P	13.2	
2	☐	2.000	2.931	3800.61	0.0032	P	6.6	46.6
3	☐	5.000	4.893	5087.70	0.0044	P	5.0	-2.1
4	☐	10.000	10.332	8602.75	0.0076	P	3.6	3.3
5	☐	100.000	100.930	67571.85	0.0602	P	3.0	0.9
6	☐	200.000	199.512	129111.29	0.1176	P	1.5	-0.2

y = 5.8157E-004 * x + 0.0015
R = 1.0000
DL = 1.052 ppb
BEC = 2.657 ppb

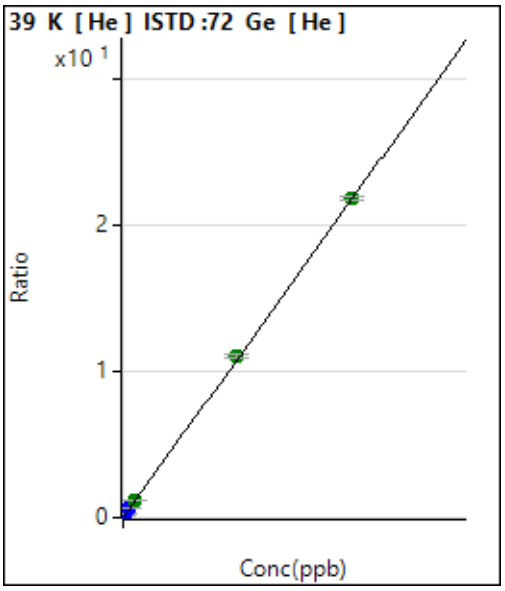
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	388377.05	0.0952	P	0.3	
2	☐	10.000	11.436	529644.03	0.1292	P	0.9	14.4
3	☐	25.000	26.952	713459.73	0.1754	P	0.9	7.8
4	☐	50.000	50.617	991057.85	0.2458	A	1.0	1.2
5	☐	500.000	506.361	6255443.66	1.6017	A	1.2	1.3
6	☐	1000.000	996.725	11798675.24	3.0605	A	1.7	-0.3

y = 0.0030 * x + 0.0952
R = 1.0000
DL = 0.2656 ppb
BEC = 32.01 ppb

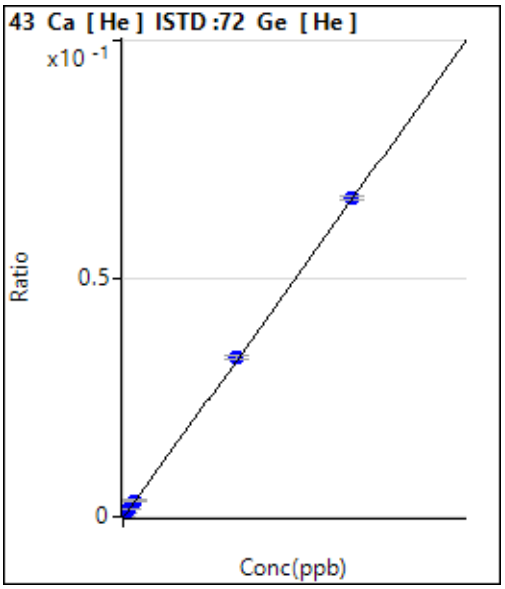
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	124829.84	0.1073	P	0.1	
2	☐	200.000	191.152	369134.79	0.3156	P	1.4	-4.4
3	☐	500.000	484.894	736485.49	0.6356	P	2.5	-3.0
4	☐	1000.000	1011.868	1377701.70	1.2098	A	0.0	1.2
5	☐	10000.00	10057.46	12412694.40	11.0656	A	2.0	0.6
6	☐	20000.00	19971.13	24012157.98	21.8673	A	1.3	-0.1

y = 0.0011 * x + 0.1073
R = 1.0000
DL = 0.154 ppb
BEC = 98.48 ppb

Weight: <None>
Min Conc: <None>

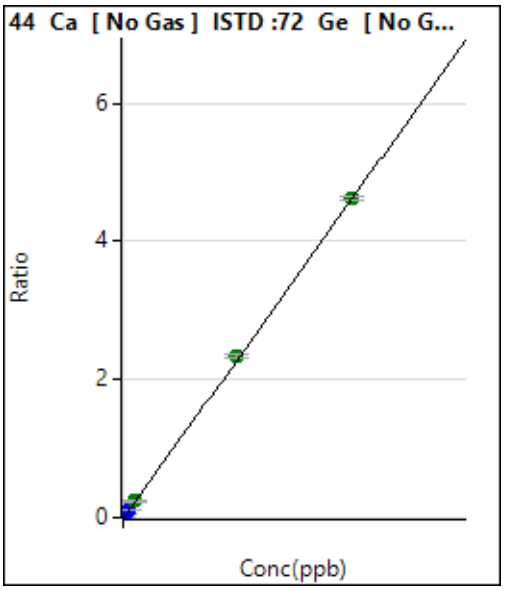


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	57.6	
2	☐	200.000	192.400	796.70	0.0007	P	5.1	-3.8
3	☐	500.000	449.620	1786.82	0.0015	P	6.4	-10.1
4	☐	1000.000	1005.975	3877.26	0.0034	P	3.2	0.6
5	☐	10000.00	9966.497	37457.34	0.0334	P	2.0	-0.3
6	☐	20000.00	20017.78	73611.18	0.0670	P	1.5	0.1

y = 3.3468E-006 * x + 3.7205E-005
R = 1.0000
DL = 19.22 ppb
BEC = 11.12 ppb

Weight: <None>
Min Conc: <None>

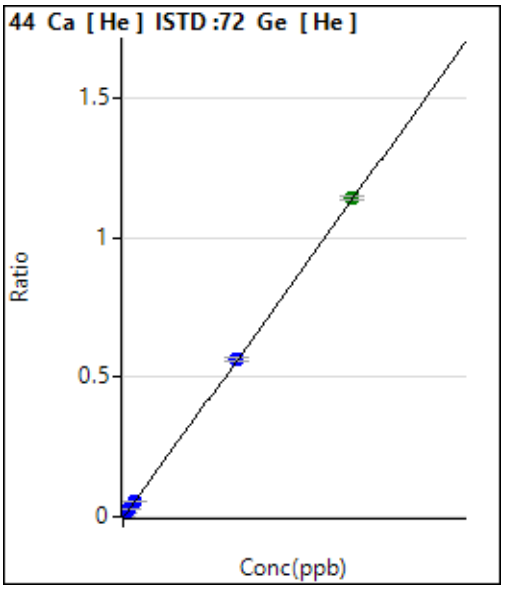
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27230.15	0.0067	P	1.1	
2	☐	200.000	208.057	224649.09	0.0548	P	2.3	4.0
3	☐	500.000	505.820	503239.55	0.1237	P	2.0	1.2
4	☐	1000.000	996.604	956737.17	0.2373	A	1.8	-0.3
5	☐	10000.00	10071.34	9128186.74	2.3372	A	1.6	0.7
6	☐	20000.00	19964.27	17835365.57	4.6264	A	1.8	-0.2

y = 2.3140E-004 * x + 0.0067
R = 1.0000
DL = 0.9426 ppb
BEC = 28.85 ppb

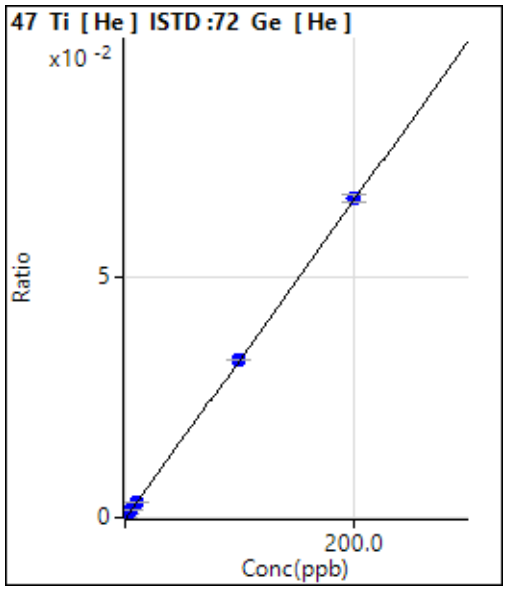
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	920.05	0.0008	P	7.0	
2	☐	200.000	198.184	14150.82	0.0121	P	6.9	-0.9
3	☐	500.000	484.070	32919.17	0.0284	P	1.4	-3.2
4	☐	1000.000	989.865	65209.62	0.0573	P	1.2	-1.0
5	☐	10000.00	9905.756	634861.45	0.5660	P	2.0	-0.9
6	☐	20000.00	20048.04	1256934.25	1.1446	A	1.5	0.2

y = 5.7054E-005 * x + 7.9066E-004
R = 1.0000
DL = 2.919 ppb
BEC = 13.86 ppb

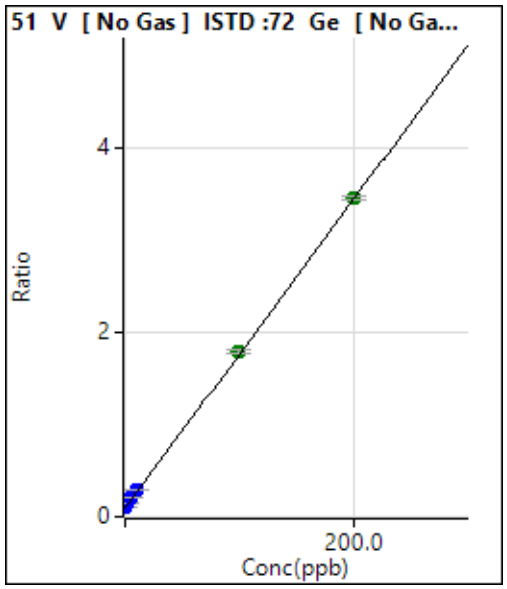
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.9	
2	☐	2.000	2.022	800.04	0.0007	P	11.0	1.1
3	☐	5.000	4.810	1860.16	0.0016	P	17.3	-3.8
4	☐	10.000	9.976	3777.24	0.0033	P	1.8	-0.2
5	☐	100.000	98.996	36779.08	0.0328	P	0.6	-1.0
6	☐	200.000	200.508	72907.57	0.0664	P	1.9	0.3

y = 3.3104E-004 * x + 1.4366E-005
R = 1.0000
DL = 0.09103 ppb
BEC = 0.0434 ppb

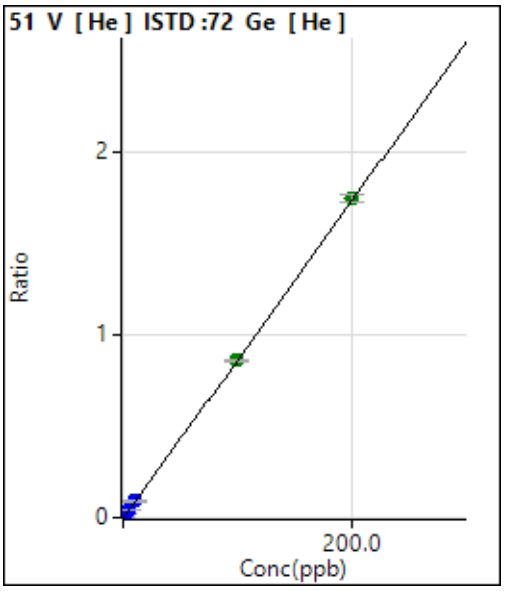
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	453557.67	0.1112	P	1.0	
2	☐	2.000	2.203	606605.10	0.1480	P	1.3	10.1
3	☐	5.000	5.439	822123.80	0.2021	P	1.7	8.8
4	☐	10.000	10.838	1178835.30	0.2924	P	0.8	8.4
5	☐	100.000	100.170	6974698.70	1.7858	A	1.5	0.2
6	☐	200.000	199.860	13309114.98	3.4524	A	1.8	-0.1

y = 0.0167 * x + 0.1112
R = 1.0000
DL = 0.1965 ppb
BEC = 6.652 ppb

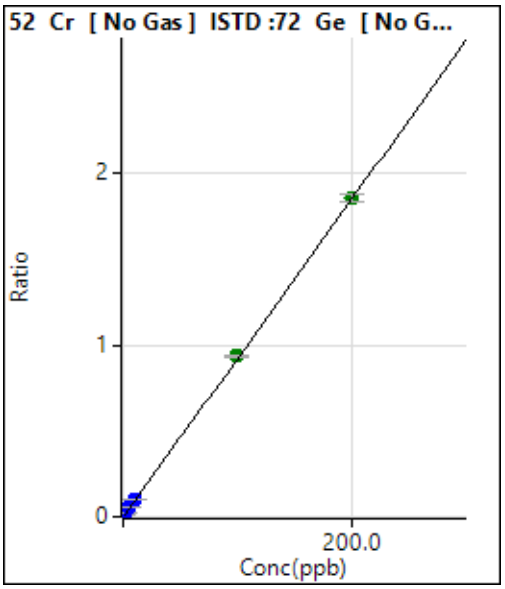
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3789.43	0.0033	P	2.9	
2	☐	2.000	1.908	23211.63	0.0198	P	2.8	-4.6
3	☐	5.000	4.765	51769.62	0.0447	P	2.8	-4.7
4	☐	10.000	10.002	102739.73	0.0902	P	2.0	0.0
5	☐	100.000	98.405	963216.11	0.8587	A	2.4	-1.6
6	☐	200.000	200.804	1920441.80	1.7488	A	1.9	0.4

y = 0.0087 * x + 0.0033
R = 1.0000
DL = 0.03223 ppb
BEC = 0.3747 ppb

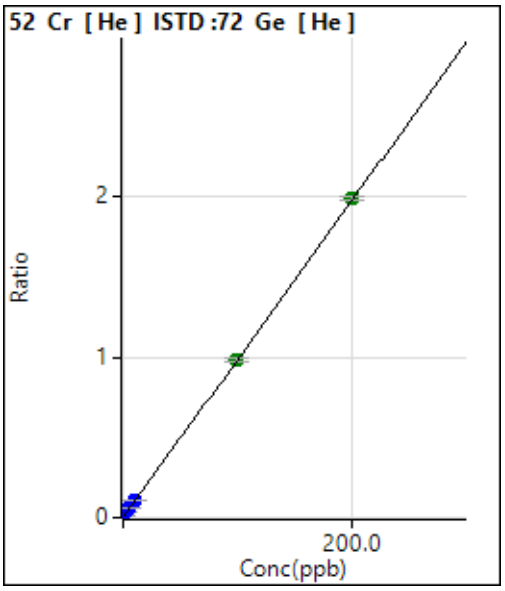
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27009.97	0.0066	P	1.4	
2	☐	2.000	2.049	104794.40	0.0256	P	2.0	2.4
3	☐	5.000	5.058	217253.33	0.0534	P	1.3	1.2
4	☐	10.000	10.151	405311.49	0.1005	P	1.1	1.5
5	☐	100.000	100.356	3651833.18	0.9350	A	1.4	0.4
6	☐	200.000	199.812	7151443.02	1.8551	A	1.9	-0.1

y = 0.0093 * x + 0.0066
R = 1.0000
DL = 0.02996 ppb
BEC = 0.7158 ppb

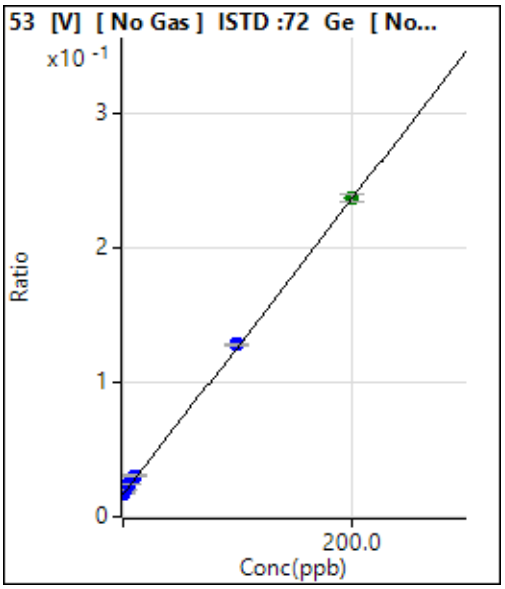
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12989.63	0.0112	P	1.0	
2	☐	2.000	1.929	35321.92	0.0302	P	0.7	-3.5
3	☐	5.000	4.833	68184.68	0.0588	P	3.8	-3.3
4	☐	10.000	10.101	126207.02	0.1108	P	0.8	1.0
5	☐	100.000	98.782	1105733.97	0.9858	A	2.6	-1.2
6	☐	200.000	200.609	2185686.32	1.9904	A	1.7	0.3

y = 0.0099 * x + 0.0112
R = 1.0000
DL = 0.03515 ppb
BEC = 1.132 ppb

Weight: <None>
Min Conc: <None>

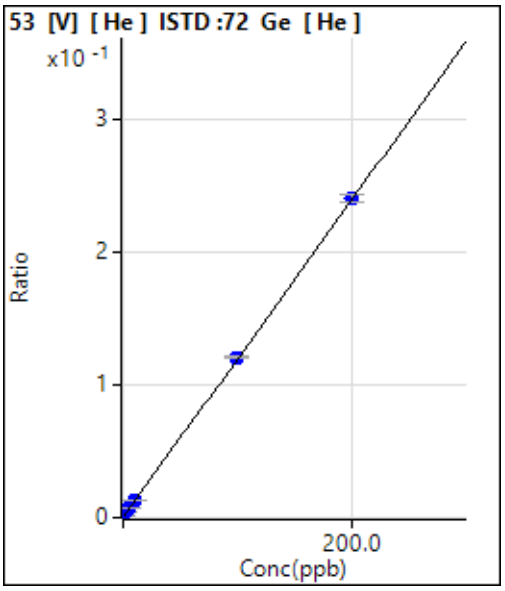


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	72744.09	0.0178	P	1.4	
2	☐	2.000	2.383	83819.92	0.0205	P	1.6	19.1
3	☐	5.000	5.854	98717.08	0.0243	P	1.9	17.1
4	☐	10.000	11.585	123252.36	0.0306	P	1.2	15.8
5	☐	100.000	100.263	500136.87	0.1281	P	1.7	0.3
6	☐	200.000	199.764	915310.85	0.2374	A	2.2	-0.1

y = 0.0011 * x + 0.0178
R = 1.0000
DL = 0.6802 ppb
BEC = 16.22 ppb

Weight: <None>
Min Conc: <None>

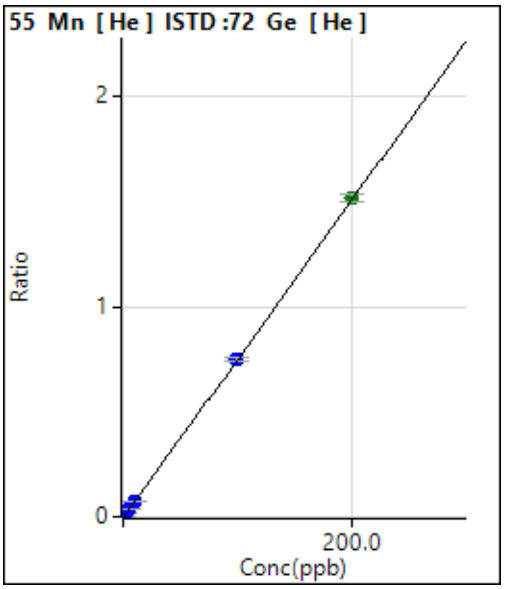
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1780.15	0.0015	P	5.1	
2	☐	2.000	2.026	4617.51	0.0039	P	4.8	1.3
3	☐	5.000	4.973	8649.55	0.0075	P	3.5	-0.5
4	☐	10.000	10.050	15395.48	0.0135	P	1.6	0.5
5	☐	100.000	99.818	135299.51	0.1206	P	1.7	-0.2
6	☐	200.000	200.089	263814.19	0.2402	P	2.0	0.0

y = 0.0012 * x + 0.0015
R = 1.0000
DL = 0.1952 ppb
BEC = 1.283 ppb

Weight: <None>
Min Conc: <None>

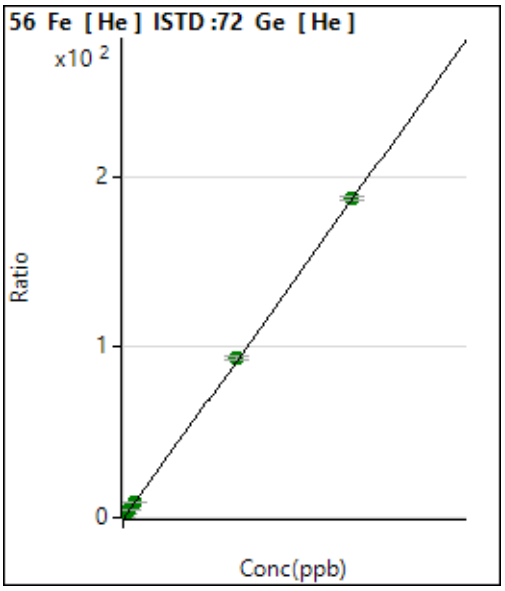


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	833.37	0.0007	P	6.3	
2	☐	2.000	1.930	17908.48	0.0153	P	3.6	-3.5
3	☐	5.000	4.849	43311.44	0.0374	P	3.3	-3.0
4	☐	10.000	10.045	87315.37	0.0767	P	2.5	0.4
5	☐	100.000	99.036	840741.34	0.7495	P	1.4	-1.0
6	☐	200.000	200.484	1665307.79	1.5165	A	2.0	0.2

y = 0.0076 * x + 7.1644E-004
R = 1.0000
DL = 0.01804 ppb
BEC = 0.09476 ppb

Weight: <None>
Min Conc: <None>

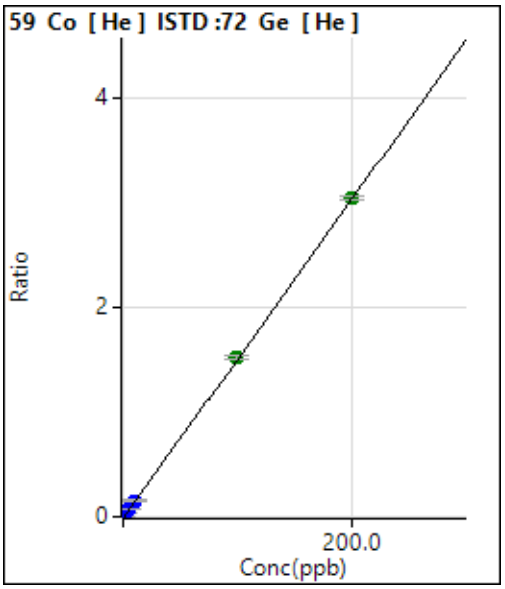
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20475.76	0.0176	P	4.5	
2	☐	200.000	194.991	2155481.11	1.8427	A	1.7	-2.5
3	☐	500.000	482.440	5252886.69	4.5333	A	2.2	-3.5
4	☐	1000.000	1005.981	10743919.84	9.4336	A	1.5	0.6
5	☐	10000.00	9986.993	104877321.7	93.4964	A	2.6	-0.1
6	☐	20000.00	20006.69	205654770.2	187.281	A	1.3	0.0

y = 0.0094 * x + 0.0176
R = 1.0000
DL = 0.2551 ppb
BEC = 1.881 ppb

Weight: <None>
Min Conc: <None>

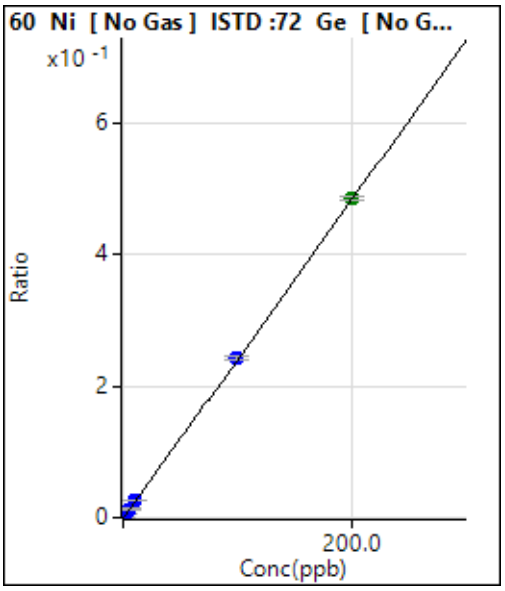


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0007	P	2.4	
2	☐	2.000	1.900	34687.26	0.0297	P	2.0	-5.0
3	☐	5.000	4.889	87151.55	0.0752	P	1.7	-2.2
4	☐	10.000	10.153	177025.39	0.1554	P	1.5	1.5
5	☐	100.000	100.015	1710770.03	1.5251	A	2.5	0.0
6	☐	200.000	199.989	3347949.12	3.0489	A	1.4	0.0

y = 0.0152 * x + 6.9061E-004
R = 1.0000
DL = 0.003301 ppb
BEC = 0.04531 ppb

Weight: <None>
Min Conc: <None>

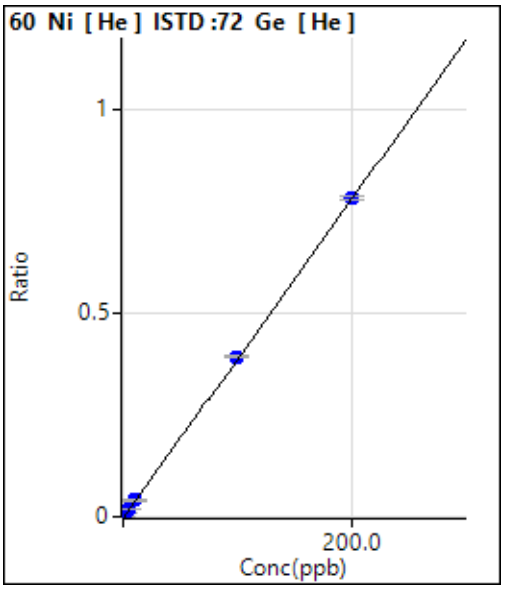
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3663.90	0.0009	P	6.0	
2	☐	2.000	1.981	23366.75	0.0057	P	2.6	-1.0
3	☐	5.000	5.016	53139.27	0.0131	P	2.0	0.3
4	☐	10.000	10.212	103486.37	0.0257	P	1.7	2.1
5	☐	100.000	99.922	950082.48	0.2433	P	1.7	-0.1
6	☐	200.000	200.028	1873903.56	0.4861	A	1.7	0.0

y = 0.0024 * x + 8.9818E-004
R = 1.0000
DL = 0.06666 ppb
BEC = 0.3703 ppb

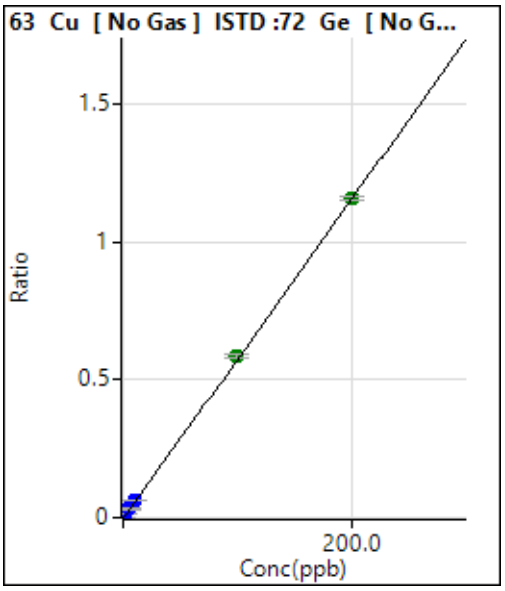
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	423.35	0.0004	P	7.7	
2	☐	2.000	2.006	9603.88	0.0082	P	8.5	0.3
3	☐	5.000	4.911	22675.72	0.0196	P	4.1	-1.8
4	☐	10.000	10.192	45806.41	0.0402	P	2.0	1.9
5	☐	100.000	100.267	440247.23	0.3925	P	1.7	0.3
6	☐	200.000	199.859	858608.89	0.7819	P	1.2	-0.1

y = 0.0039 * x + 3.6378E-004
R = 1.0000
DL = 0.02143 ppb
BEC = 0.09303 ppb

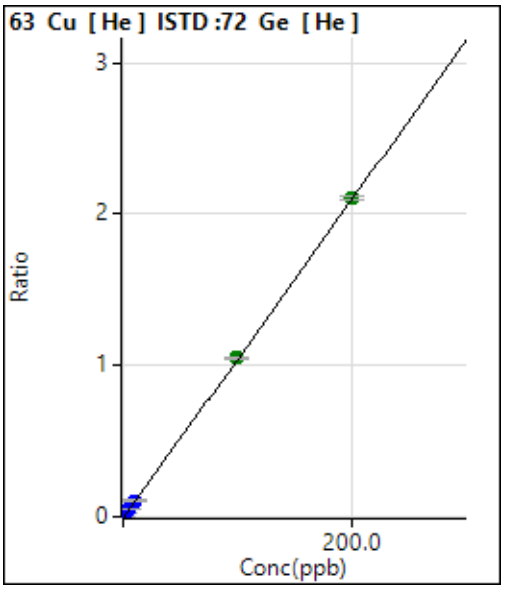
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7001.93	0.0017	P	3.3	
2	☐	2.000	2.122	57506.90	0.0140	P	1.1	6.1
3	☐	5.000	5.158	128742.09	0.0317	P	2.7	3.2
4	☐	10.000	10.297	247850.91	0.0615	P	1.3	3.0
5	☐	100.000	100.823	2291887.73	0.5868	A	1.7	0.8
6	☐	200.000	199.568	4471530.97	1.1599	A	1.3	-0.2

y = 0.0058 * x + 0.0017
R = 1.0000
DL = 0.02933 ppb
BEC = 0.2958 ppb

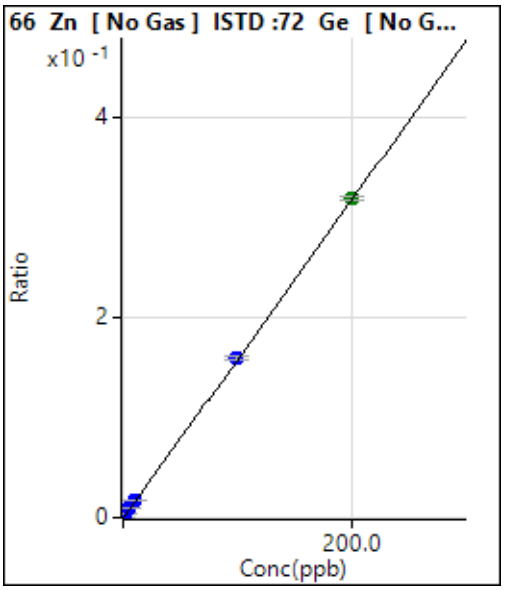
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	756.70	0.0007	P	11.7	
2	☐	2.000	1.992	25266.92	0.0216	P	3.2	-0.4
3	☐	5.000	4.802	59284.39	0.0512	P	0.4	-4.0
4	☐	10.000	10.180	122701.28	0.1077	P	1.5	1.8
5	☐	100.000	99.671	1176878.16	1.0492	A	1.4	-0.3
6	☐	200.000	200.161	2312817.31	2.1063	A	1.7	0.1

y = 0.0105 * x + 6.5039E-004
R = 1.0000
DL = 0.02176 ppb
BEC = 0.06183 ppb

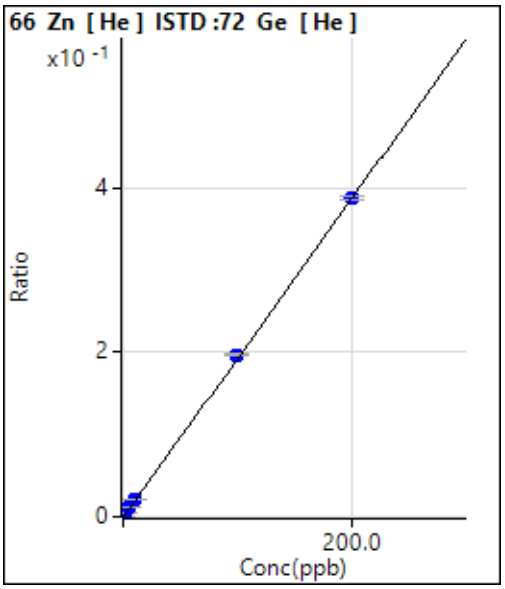
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2770.33	0.0007	P	4.5	
2	☐	2.000	2.457	18826.49	0.0046	P	2.9	22.9
3	☐	5.000	5.103	35833.69	0.0088	P	2.6	2.1
4	☐	10.000	10.003	66996.82	0.0166	P	0.2	0.0
5	☐	100.000	99.727	623213.06	0.1596	P	1.5	-0.3
6	☐	200.000	200.129	1231909.83	0.3195	A	1.5	0.1

y = 0.0016 * x + 6.7929E-004
R = 1.0000
DL = 0.0572 ppb
BEC = 0.4264 ppb

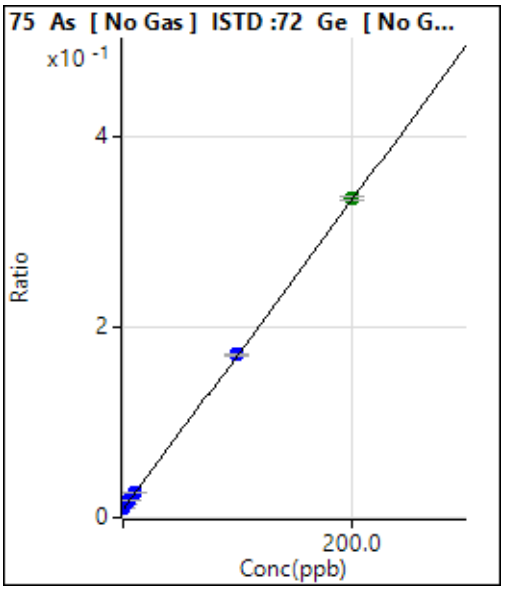
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	943.39	0.0008	P	8.6	
2	☐	2.000	2.445	6494.97	0.0056	P	5.6	22.3
3	☐	5.000	5.185	12589.39	0.0109	P	5.8	3.7
4	☐	10.000	10.236	23533.84	0.0207	P	2.4	2.4
5	☐	100.000	101.026	220719.51	0.1968	P	0.7	1.0
6	☐	200.000	199.466	425720.44	0.3877	P	1.7	-0.3

y = 0.0019 * x + 8.1072E-004
R = 1.0000
DL = 0.1075 ppb
BEC = 0.418 ppb

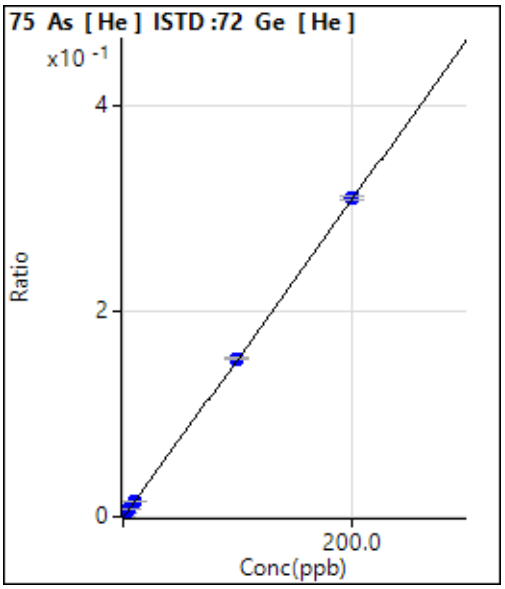
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	42061.77	0.0103	P	1.2	
2	☐	2.000	1.844	54502.39	0.0133	P	1.8	-7.8
3	☐	5.000	4.928	74412.41	0.0183	P	1.9	-1.4
4	☐	10.000	10.132	107748.90	0.0267	P	2.3	1.3
5	☐	100.000	99.327	668667.49	0.1712	P	1.4	-0.7
6	☐	200.000	200.333	1290763.26	0.3348	A	1.6	0.2

y = 0.0016 * x + 0.0103
R = 1.0000
DL = 0.2216 ppb
BEC = 6.366 ppb

Weight: <None>
Min Conc: <None>

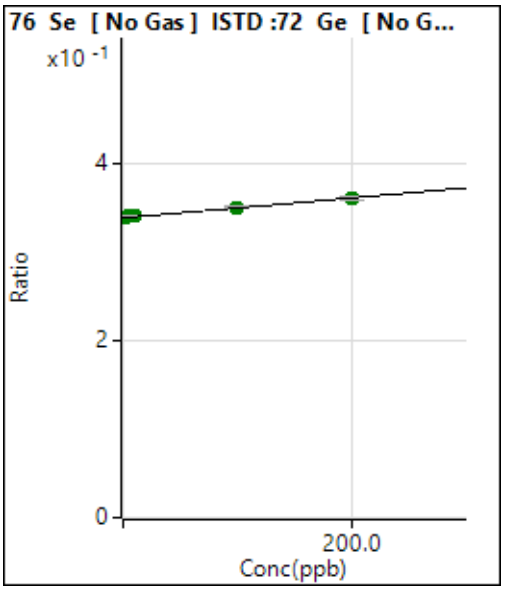


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	345.56	0.0003	P	1.2	
2	☐	2.000	1.877	3747.20	0.0032	P	1.4	-6.2
3	☐	5.000	4.902	9141.98	0.0079	P	3.0	-2.0
4	☐	10.000	9.915	17827.23	0.0157	P	2.1	-0.9
5	☐	100.000	99.344	172929.96	0.1542	P	1.3	-0.7
6	☐	200.000	200.336	341030.84	0.3106	P	1.3	0.2

y = 0.0015 * x + 2.9704E-004
R = 1.0000
DL = 0.0069 ppb
BEC = 0.1918 ppb

Weight: <None>
Min Conc: <None>

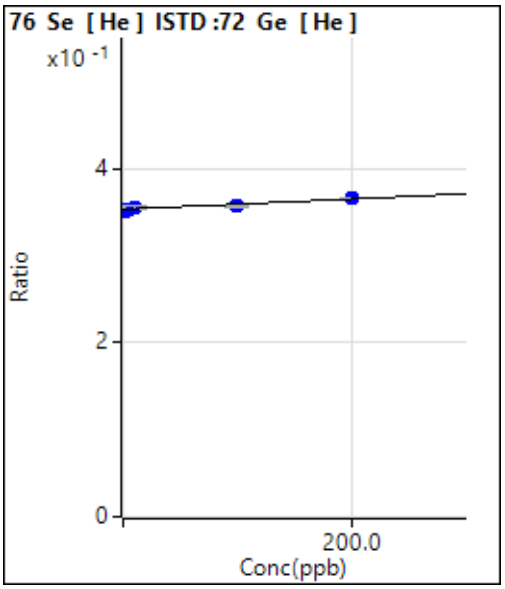
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1382797.01	0.3390	A	0.2	
2	☐	2.000	7.546	1392932.79	0.3399	A	0.6	277.3
3	☐	5.000	16.516	1386656.39	0.3409	A	0.7	230.3
4	☐	10.000	22.842	1377368.00	0.3416	A	0.5	128.4
5	☐	100.000	107.710	1371910.14	0.3513	A	0.4	7.7
6	☐	200.000	195.159	1392566.85	0.3612	A	0.8	-2.4

y = 1.1375E-004 * x + 0.3390
R = 0.9976
DL = 14.1 ppb
BEC = 2980 ppb

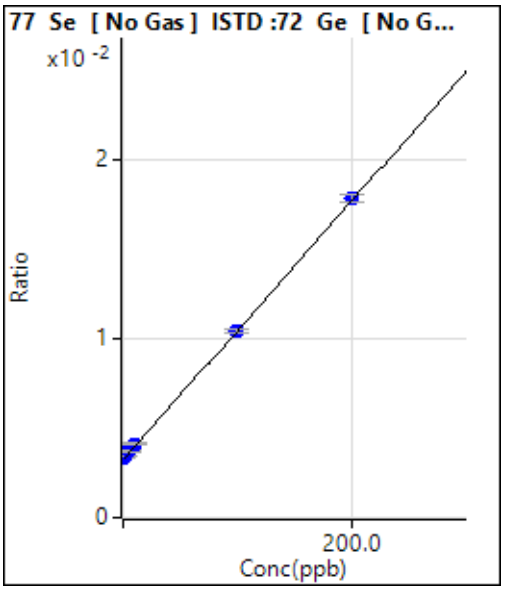
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	410886.54	0.3532	P	0.6	
2	☐	2.000	-30.509	410981.36	0.3514	P	0.5	-1625.4
3	☐	5.000	6.630	409698.93	0.3536	P	0.5	32.6
4	☐	10.000	37.447	404724.50	0.3554	P	1.2	274.5
5	☐	100.000	63.444	400470.54	0.3570	P	0.8	-36.6
6	☐	200.000	217.190	402112.69	0.3662	P	0.6	8.6

y = 6.0005E-005 * x + 0.3532
R = 0.9567
DL = 114.1 ppb
BEC = 5886 ppb

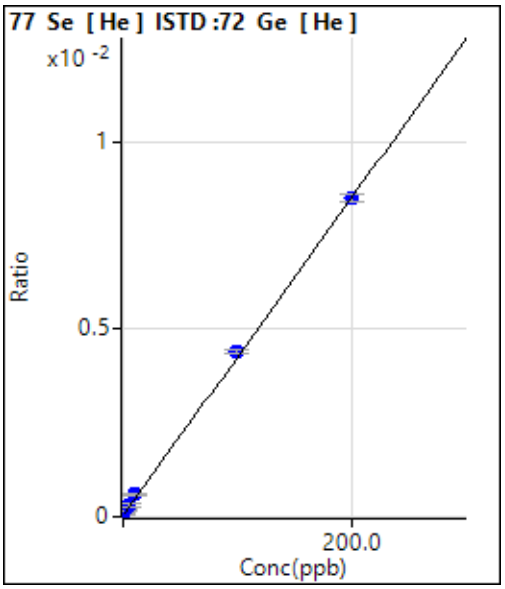
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13620.34	0.0033	P	3.1	
2	☐	2.000	1.476	14124.23	0.0034	P	1.5	-26.2
3	☐	5.000	5.362	15162.02	0.0037	P	4.1	7.2
4	☐	10.000	10.741	16600.31	0.0041	P	2.7	7.4
5	☐	100.000	98.052	40764.54	0.0104	P	1.3	-1.9
6	☐	200.000	200.933	68940.67	0.0179	P	2.8	0.5

y = 7.2386E-005 * x + 0.0033
R = 0.9999
DL = 4.245 ppb
BEC = 46.14 ppb

Weight: <None>
Min Conc: <None>

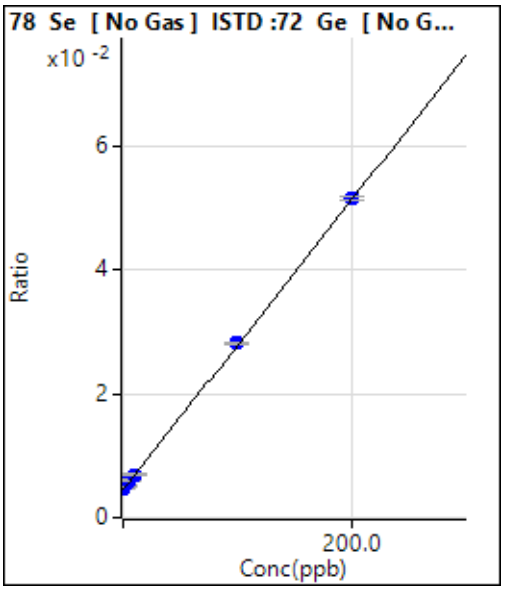


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	33.8	
2	☐	2.000	2.683	223.34	0.0002	P	18.6	34.2
3	☐	5.000	5.579	363.35	0.0003	P	25.2	11.6
4	☐	10.000	12.209	676.70	0.0006	P	7.8	22.1
5	☐	100.000	102.033	4934.31	0.0044	P	1.4	2.0
6	☐	200.000	198.852	9333.38	0.0085	P	2.9	-0.6

y = 4.2351E-005 * x + 7.7431E-005
R = 0.9999
DL = 1.854 ppb
BEC = 1.828 ppb

Weight: <None>
Min Conc: <None>

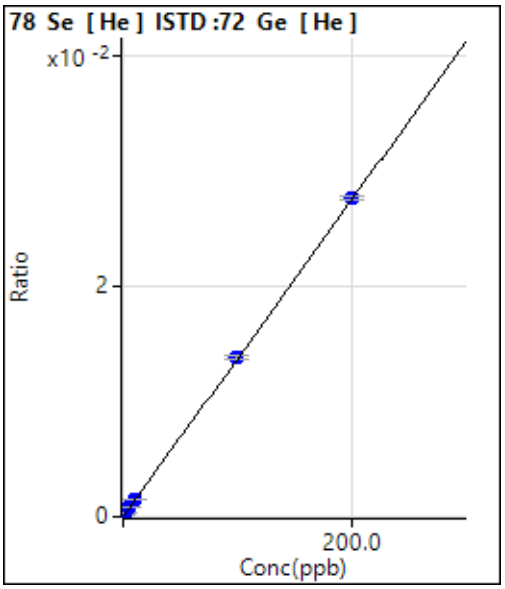
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19400.68	0.0048	P	1.7	
2	☐	2.000	1.841	21260.28	0.0052	P	2.2	-7.9
3	☐	5.000	5.386	24478.98	0.0060	P	2.5	7.7
4	☐	10.000	9.504	28156.05	0.0070	P	1.9	-5.0
5	☐	100.000	99.882	109978.08	0.0282	P	1.7	-0.1
6	☐	200.000	200.076	199052.68	0.0516	P	1.2	0.0

y = 2.3430E-004 * x + 0.0048
R = 1.0000
DL = 1.022 ppb
BEC = 20.3 ppb

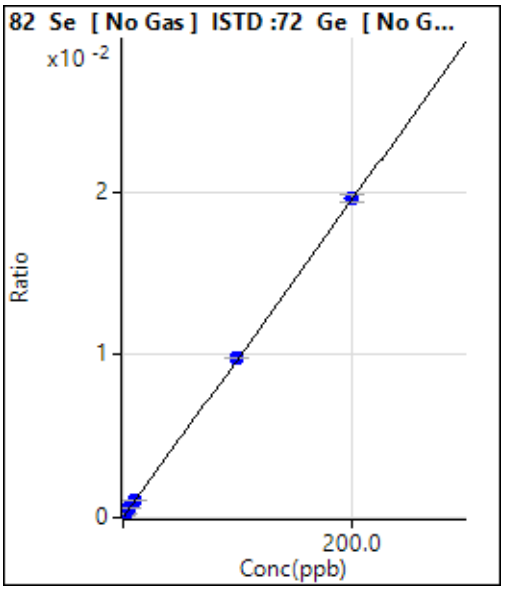
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	3.7	
2	☐	2.000	1.892	458.01	0.0004	P	11.0	-5.4
3	☐	5.000	5.225	984.04	0.0008	P	6.2	4.5
4	☐	10.000	9.775	1678.78	0.0015	P	1.1	-2.3
5	☐	100.000	99.540	15483.46	0.0138	P	2.3	-0.5
6	☐	200.000	200.237	30342.99	0.0276	P	1.7	0.1

y = 1.3734E-004 * x + 1.3179E-004
R = 1.0000
DL = 0.1055 ppb
BEC = 0.9596 ppb

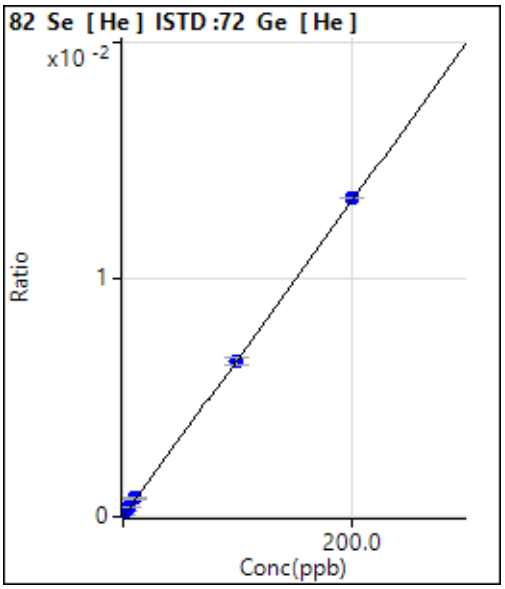
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.01	0.0001	P	4.8	
2	☐	2.000	1.782	1153.40	0.0003	P	9.6	-10.9
3	☐	5.000	5.173	2486.94	0.0006	P	6.5	3.5
4	☐	10.000	10.120	4407.46	0.0011	P	4.1	1.2
5	☐	100.000	99.557	38274.21	0.0098	P	1.0	-0.4
6	☐	200.000	200.214	75553.20	0.0196	P	2.4	0.1

y = 9.7352E-005 * x + 1.0789E-004
R = 1.0000
DL = 0.1583 ppb
BEC = 1.108 ppb

Weight: <None>
Min Conc: <None>

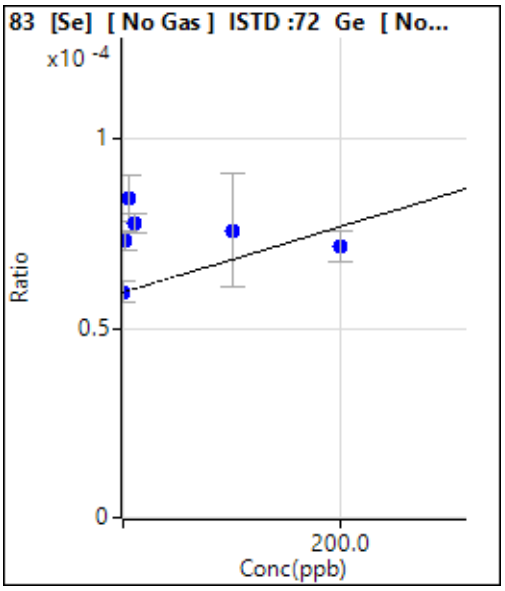


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	8.0	
2	☐	2.000	2.568	276.68	0.0002	P	13.5	28.4
3	☐	5.000	4.939	456.69	0.0004	P	7.8	-1.2
4	☐	10.000	10.776	890.04	0.0008	P	4.9	7.8
5	☐	100.000	97.662	7352.12	0.0066	P	3.8	-2.3
6	☐	200.000	201.126	14744.90	0.0134	P	0.1	0.6

y = 6.6438E-005 * x + 6.5918E-005
R = 0.9999
DL = 0.2387 ppb
BEC = 0.9922 ppb

Weight: <None>
Min Conc: <None>

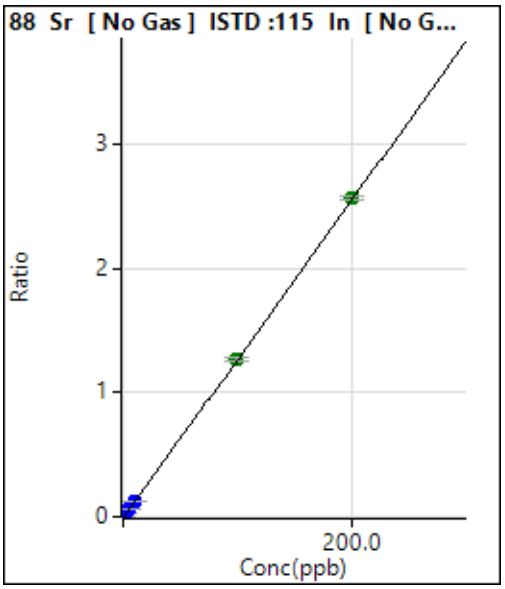
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0001	P	9.0	
2	☐	2.000	155.471	300.01	0.0001	P	6.4	7673.6
3	☐	5.000	283.571	343.34	0.0001	P	14.4	5571.4
4	☐	10.000	206.868	313.34	0.0001	P	6.5	1968.7
5	☐	100.000	186.831	296.68	0.0001	P	39.1	86.8
6	☐	200.000	138.242	276.68	0.0001	P	10.8	-30.9

y = 8.7337E-008 * x + 5.9645E-005
R = -0.0305
DL = 185.1 ppb
BEC = 682.9 ppb

Weight: <None>
Min Conc: <None>

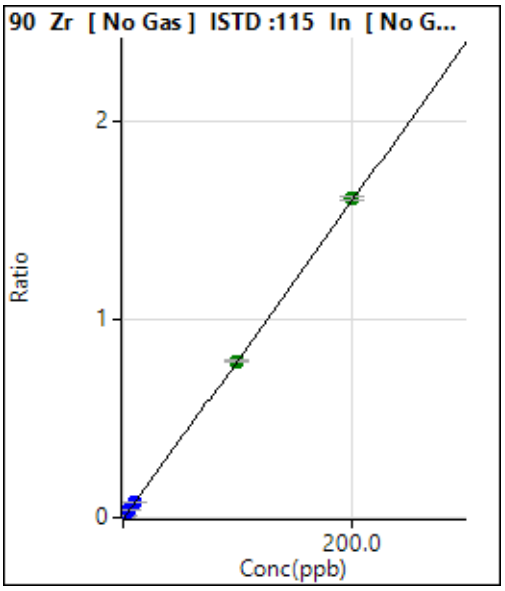


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3443.83	0.0007	P	3.3	
2	☐	2.000	1.949	131827.46	0.0257	P	1.2	-2.5
3	☐	5.000	4.810	320927.11	0.0623	P	1.5	-3.8
4	☐	10.000	9.718	641791.93	0.1253	P	1.2	-2.8
5	☐	100.000	99.087	6355008.03	1.2711	A	1.6	-0.9
6	☐	200.000	200.476	12478416.90	2.5710	A	1.8	0.2

y = 0.0128 * x + 6.6940E-004
R = 1.0000
DL = 0.005164 ppb
BEC = 0.05221 ppb

Weight: <None>
Min Conc: <None>

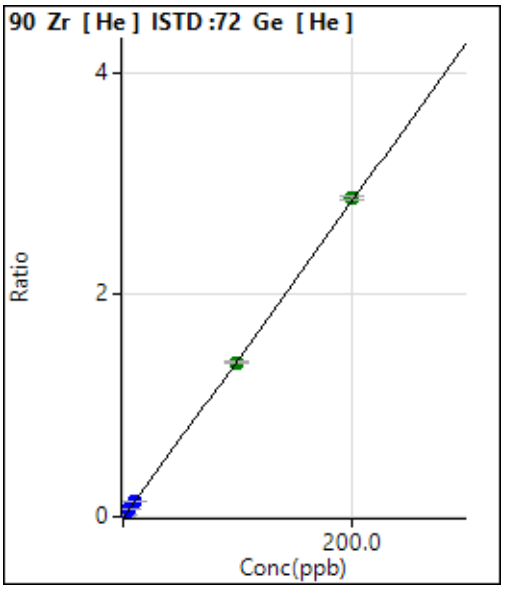
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.09	0.0003	P	4.3	
2	☐	2.000	1.668	69980.91	0.0136	P	0.7	-16.6
3	☐	5.000	4.367	181449.79	0.0352	P	1.6	-12.7
4	☐	10.000	9.208	379299.12	0.0740	P	0.3	-7.9
5	☐	100.000	98.197	3934941.40	0.7870	A	1.3	-1.8
6	☐	200.000	200.960	7816321.76	1.6104	A	1.5	0.5

y = 0.0080 * x + 2.5467E-004
R = 0.9999
DL = 0.004084 ppb
BEC = 0.03178 ppb

Weight: <None>
Min Conc: <None>

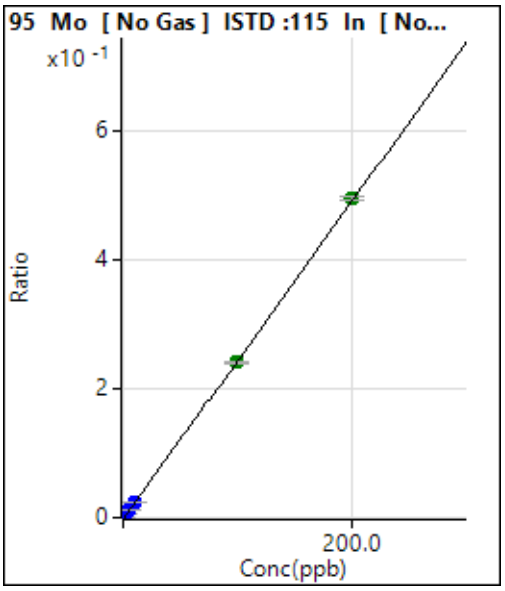


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1793.49	0.0015	P	9.9	
2	☐	2.000	1.582	28153.13	0.0241	P	2.2	-20.9
3	☐	5.000	4.293	72628.27	0.0627	P	3.5	-14.1
4	☐	10.000	9.248	151728.95	0.1332	P	1.5	-7.5
5	☐	100.000	97.451	1558273.26	1.3891	A	2.0	-2.5
6	☐	200.000	201.334	3149651.93	2.8683	A	1.6	0.7

y = 0.0142 * x + 0.0015
R = 0.9999
DL = 0.03205 ppb
BEC = 0.1083 ppb

Weight: <None>
Min Conc: <None>

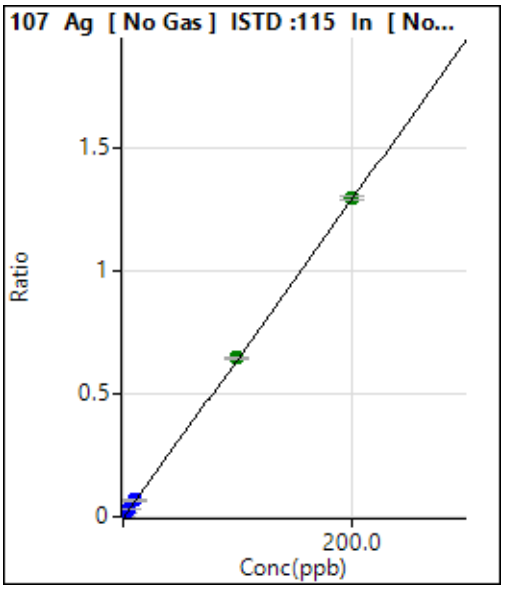
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0000	P	14.1	
2	☐	2.000	1.963	25043.84	0.0049	P	4.6	-1.9
3	☐	5.000	4.863	61895.32	0.0120	P	1.9	-2.7
4	☐	10.000	9.786	123764.89	0.0242	P	0.4	-2.1
5	☐	100.000	97.785	1205195.30	0.2410	A	1.6	-2.2
6	☐	200.000	201.122	2406098.45	0.4957	A	1.3	0.6

y = 0.0025 * x + 3.6939E-005
R = 0.9999
DL = 0.006329 ppb
BEC = 0.01499 ppb

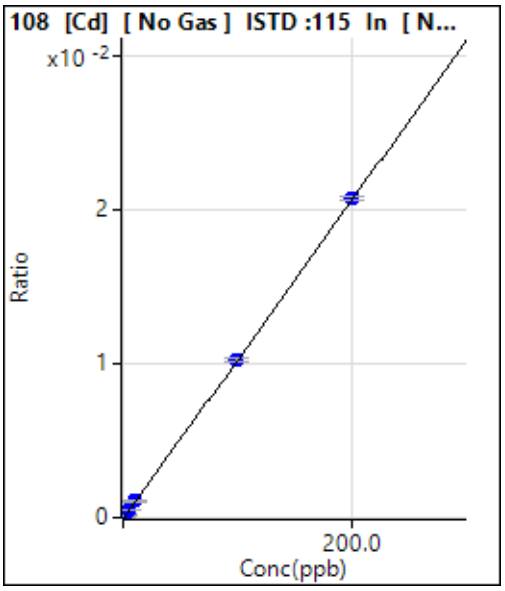
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1130.07	0.0002	P	6.4	
2	☐	2.000	2.055	69617.39	0.0135	P	2.1	2.8
3	☐	5.000	5.082	170821.07	0.0332	P	2.2	1.6
4	☐	10.000	10.252	341807.09	0.0667	P	1.1	2.5
5	☐	100.000	99.713	3234625.68	0.6470	A	1.8	-0.3
6	☐	200.000	200.128	6301259.49	1.2983	A	1.6	0.1

y = 0.0065 * x + 2.1968E-004
R = 1.0000
DL = 0.006466 ppb
BEC = 0.03387 ppb

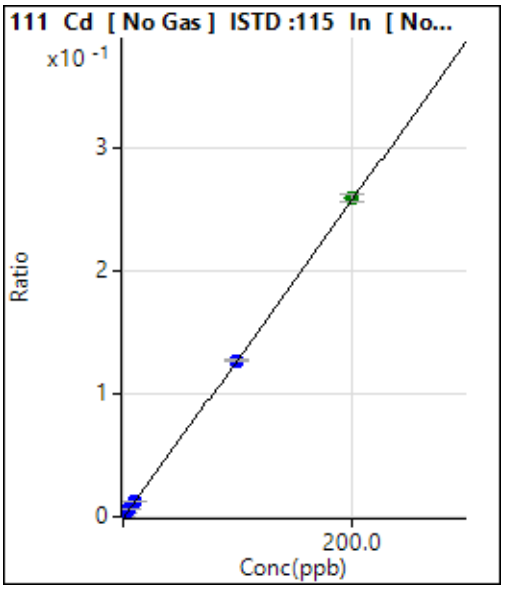
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	86.6	
2	☐	2.000	1.851	1003.39	0.0002	P	9.5	-7.5
3	☐	5.000	4.555	2443.59	0.0005	P	5.0	-8.9
4	☐	10.000	10.261	5454.56	0.0011	P	5.1	2.6
5	☐	100.000	99.244	51312.02	0.0103	P	2.7	-0.8
6	☐	200.000	200.378	100553.55	0.0207	P	1.8	0.2

y = 1.0337E-004 * x + 3.8826E-006
R = 1.0000
DL = 0.09758 ppb
BEC = 0.03756 ppb

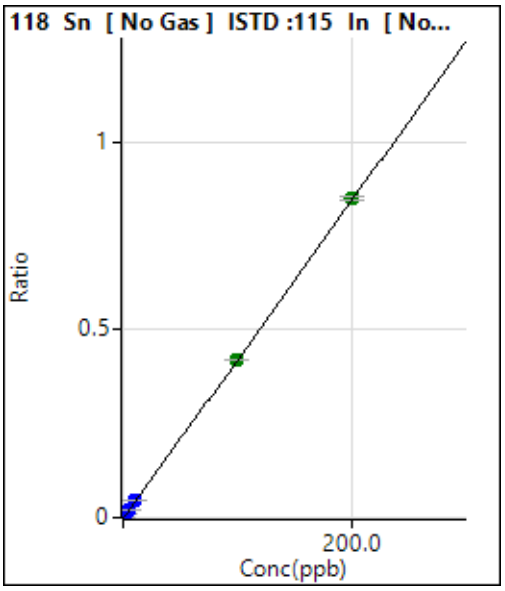
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1.87	0.0000	P	1877.	
2	☐	2.000	2.067	13751.81	0.0027	P	2.3	3.3
3	☐	5.000	4.975	33166.39	0.0064	P	2.7	-0.5
4	☐	10.000	9.969	66141.43	0.0129	P	1.3	-0.3
5	☐	100.000	98.429	637239.95	0.1275	P	2.1	-1.6
6	☐	200.000	200.787	1261910.71	0.2600	A	2.1	0.4

y = 0.0013 * x + 3.7572E-007
R = 1.0000
DL = 0.01634 ppb
BEC = 0.0002902 ppb

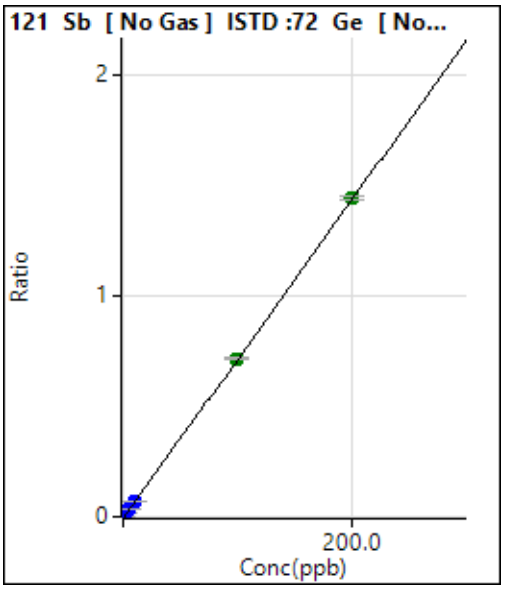
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6481.70	0.0013	P	3.9	
2	☐	2.000	2.034	50780.98	0.0099	P	1.8	1.7
3	☐	5.000	4.924	113983.02	0.0221	P	1.3	-1.5
4	☐	10.000	10.016	224036.87	0.0437	P	0.4	0.2
5	☐	100.000	99.133	2107880.75	0.4216	A	0.5	-0.9
6	☐	200.000	200.434	4131092.85	0.8511	A	1.0	0.2

y = 0.0042 * x + 0.0013
R = 1.0000
DL = 0.03505 ppb
BEC = 0.2971 ppb

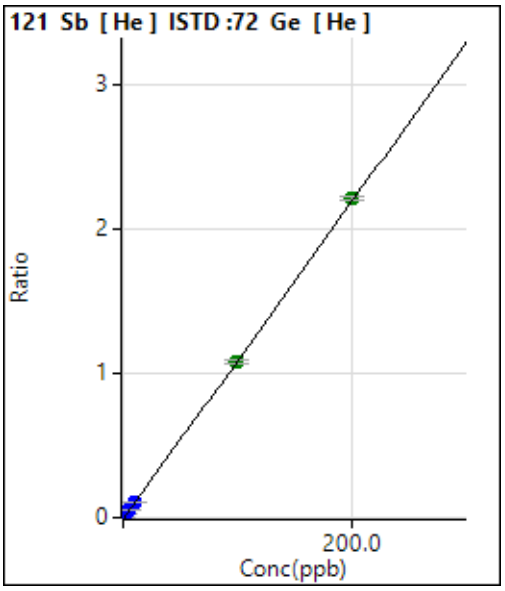
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	596.69	0.0001	P	5.4	
2	☐	2.000	2.025	60330.69	0.0147	P	3.0	1.2
3	☐	5.000	5.016	147472.58	0.0363	P	0.7	0.3
4	☐	10.000	10.057	292505.77	0.0725	P	1.5	0.6
5	☐	100.000	99.225	2790506.63	0.7145	A	1.2	-0.8
6	☐	200.000	200.384	5562198.46	1.4428	A	1.3	0.2

y = 0.0072 * x + 1.4629E-004
R = 1.0000
DL = 0.0033 ppb
BEC = 0.02032 ppb

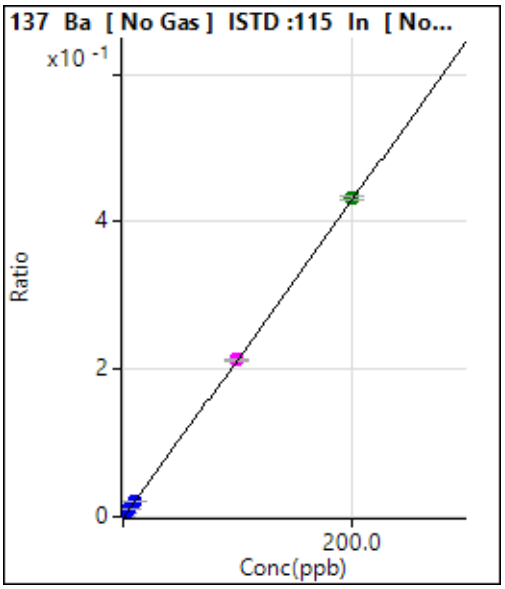
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.67	0.0002	P	27.7	
2	☐	2.000	1.929	25084.10	0.0214	P	2.4	-3.5
3	☐	5.000	4.803	61523.29	0.0531	P	4.6	-3.9
4	☐	10.000	9.973	125278.34	0.1100	P	1.2	-0.3
5	☐	100.000	97.652	1206188.45	1.0753	A	2.3	-2.3
6	☐	200.000	201.181	2432430.90	2.2151	A	1.6	0.6

y = 0.0110 * x + 2.0354E-004
R = 0.9999
DL = 0.01534 ppb
BEC = 0.01849 ppb

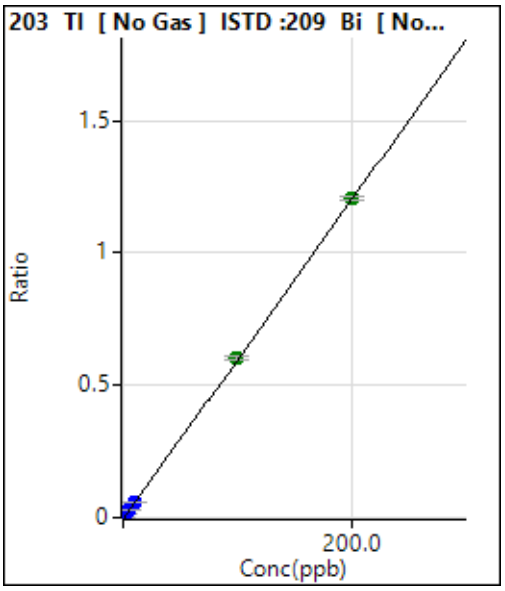
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	770.03	0.0001	P	9.7	
2	☐	2.000	2.176	24847.13	0.0048	P	2.7	8.8
3	☐	5.000	4.841	54449.82	0.0106	P	4.8	-3.2
4	☐	10.000	9.911	110132.49	0.0215	P	1.2	-0.9
5	☐	100.000	98.606	1062547.56	0.2125	M	0.9	-1.4
6	☐	200.000	200.704	2098757.68	0.4324	A	1.7	0.4

y = 0.0022 * x + 1.4967E-004
R = 1.0000
DL = 0.02027 ppb
BEC = 0.06949 ppb

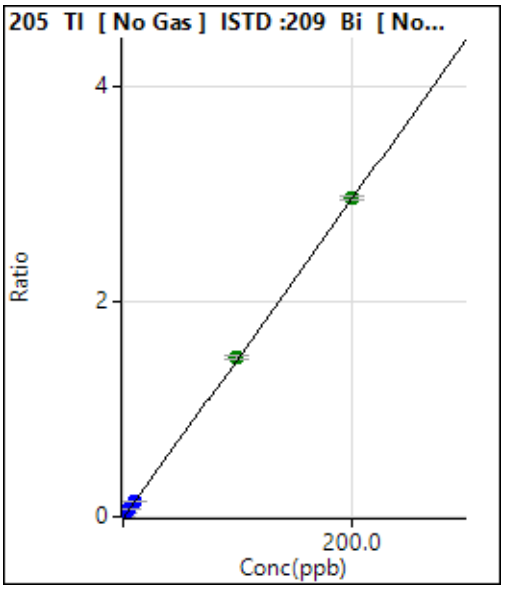
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1063.39	0.0002	P	4.7	
2	☐	2.000	1.864	56952.25	0.0115	P	0.9	-6.8
3	☐	5.000	4.855	146964.38	0.0295	P	3.0	-2.9
4	☐	10.000	9.930	303207.52	0.0602	P	1.1	-0.7
5	☐	100.000	100.133	2957484.85	0.6047	A	2.1	0.1
6	☐	200.000	199.942	5896563.24	1.2072	A	1.2	0.0

y = 0.0060 * x + 2.1508E-004
R = 1.0000
DL = 0.005027 ppb
BEC = 0.03563 ppb

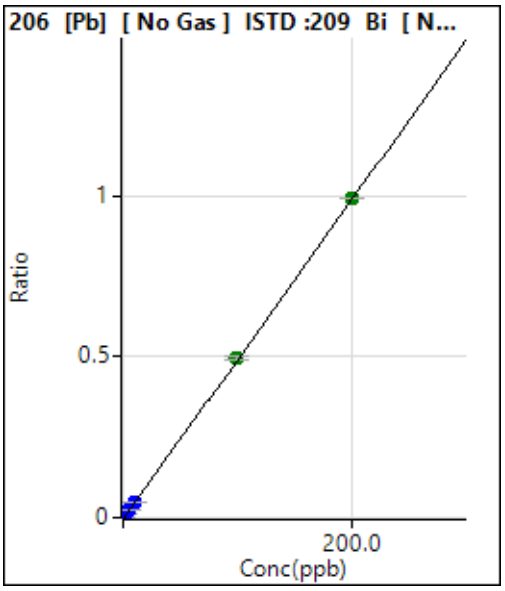
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2733.67	0.0006	P	8.7	
2	☐	2.000	1.800	135292.49	0.0272	P	3.1	-10.0
3	☐	5.000	4.693	349043.55	0.0701	P	1.7	-6.1
4	☐	10.000	9.618	721276.55	0.1431	P	1.4	-3.8
5	☐	100.000	100.235	7269242.39	1.4863	A	3.0	0.2
6	☐	200.000	199.911	14476418.54	2.9638	A	0.8	0.0

y = 0.0148 * x + 5.5313E-004
R = 1.0000
DL = 0.009768 ppb
BEC = 0.03732 ppb

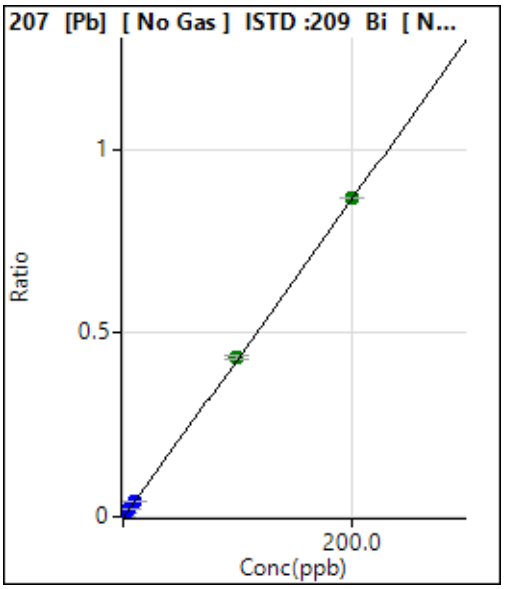
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1283.43	0.0003	P	9.3	
2	☐	2.000	2.040	51592.69	0.0104	P	0.1	2.0
3	☐	5.000	4.992	124661.17	0.0250	P	2.2	-0.2
4	☐	10.000	9.948	250236.17	0.0497	P	2.0	-0.5
5	☐	100.000	99.962	2428589.13	0.4965	A	2.4	0.0
6	☐	200.000	200.022	4851910.13	0.9933	A	0.0	0.0

y = 0.0050 * x + 2.5971E-004
R = 1.0000
DL = 0.01455 ppb
BEC = 0.05231 ppb

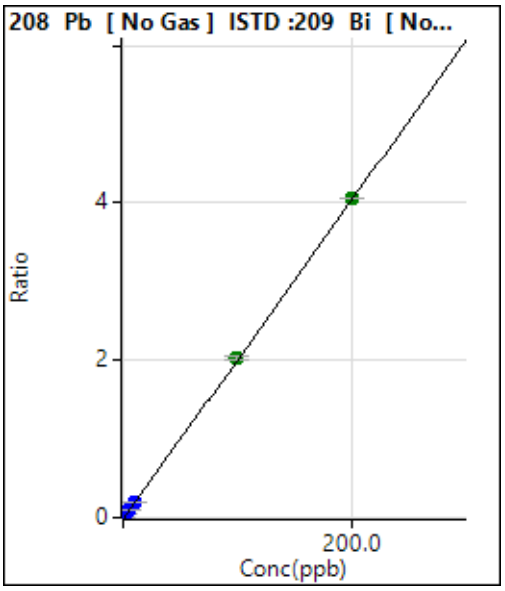
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1186.75	0.0002	P	2.8	
2	☐	2.000	1.973	43739.78	0.0088	P	4.1	-1.3
3	☐	5.000	4.929	107645.92	0.0216	P	3.2	-1.4
4	☐	10.000	9.929	218349.87	0.0433	P	1.1	-0.7
5	☐	100.000	99.842	2120187.93	0.4335	A	2.3	-0.2
6	☐	200.000	200.085	4242060.04	0.8685	A	0.3	0.0

y = 0.0043 * x + 2.4000E-004
R = 1.0000
DL = 0.004669 ppb
BEC = 0.05531 ppb

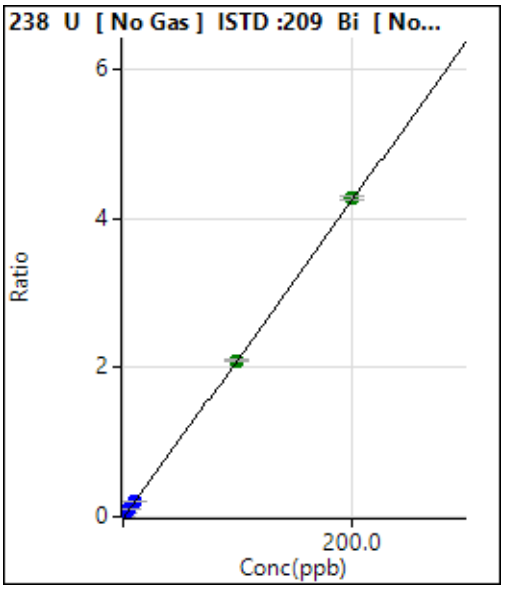
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5470.59	0.0011	P	3.2	
2	☐	2.000	1.953	202278.69	0.0407	P	2.0	-2.3
3	☐	5.000	4.833	493260.76	0.0991	P	1.5	-3.3
4	☐	10.000	9.730	999973.48	0.1984	P	1.6	-2.7
5	☐	100.000	99.663	9889606.15	2.0220	A	2.0	-0.3
6	☐	200.000	200.187	19833060.43	4.0603	A	0.6	0.1

y = 0.0203 * x + 0.0011
R = 1.0000
DL = 0.005191 ppb
BEC = 0.05457 ppb

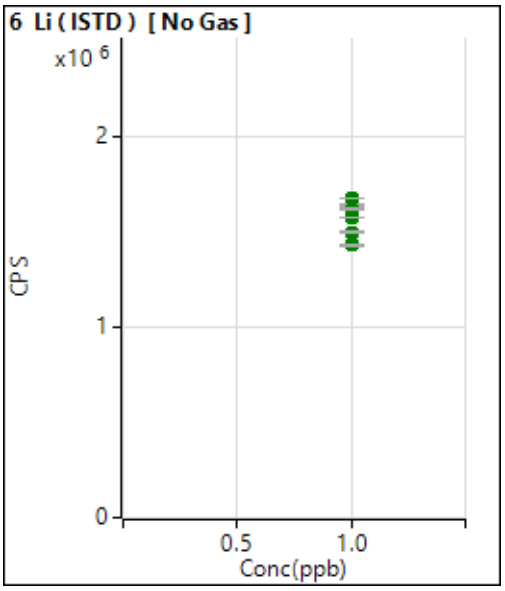
Weight: <None>
Min Conc: <None>



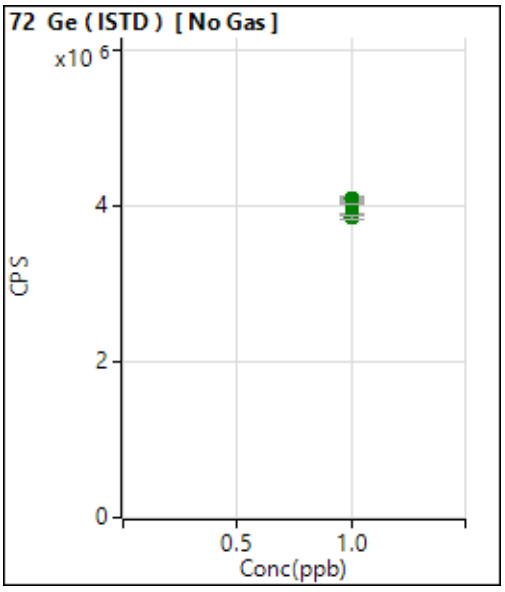
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3840.69	0.0008	P	2.4	
2	☐	2.000	1.852	199597.32	0.0402	P	1.2	-7.4
3	☐	5.000	4.633	494594.50	0.0994	P	0.6	-7.3
4	☐	10.000	9.370	1008708.24	0.2001	P	1.3	-6.3
5	☐	100.000	98.429	10247644.64	2.0951	A	1.7	-1.6
6	☐	200.000	200.828	20877186.77	4.2740	A	1.5	0.4

y = 0.0213 * x + 7.7664E-004
R = 1.0000
DL = 0.002649 ppb
BEC = 0.0365 ppb

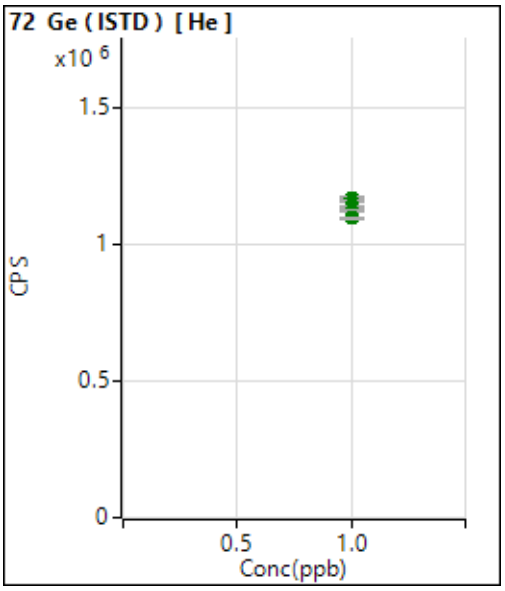
Weight: <None>
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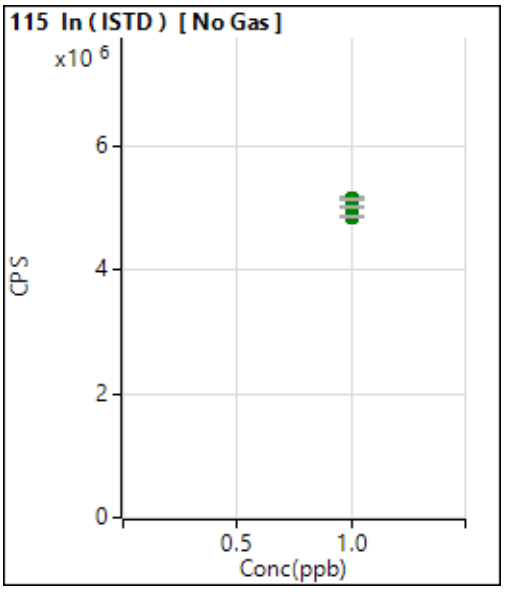
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1676118.60		A	0.5	
2	☐	1.000		1639782.03		A	0.4	
3	☐	1.000		1617926.82		A	0.3	
4	☐	1.000		1575065.32		A	0.6	
5	☐	1.000		1497357.81		A	0.5	
6	☐	1.000		1429491.40		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4078799.42		A	0.6	
2	☐	1.000		4098266.40		A	0.7	
3	☐	1.000		4067729.52		A	0.7	
4	☐	1.000		4031887.75		A	0.2	
5	☐	1.000		3905522.13		A	0.4	
6	☐	1.000		3855346.19		A	0.9	

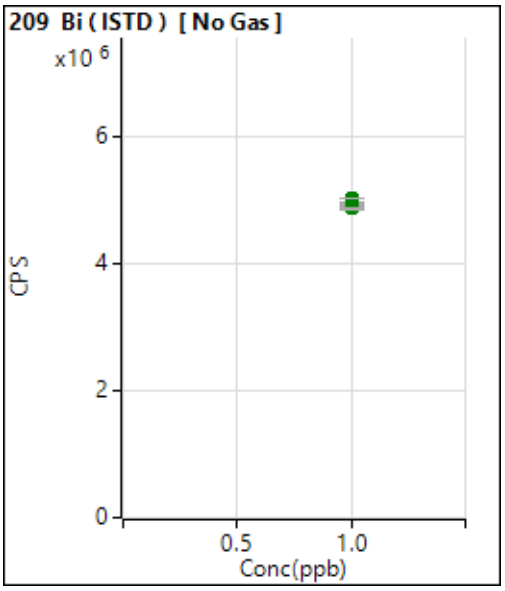


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1163380.53		A	0.6	
2	☐	1.000		1169709.75		A	0.6	
3	☐	1.000		1158721.52		A	0.7	
4	☐	1.000		1138781.05		A	1.1	
5	☐	1.000		1121782.67		A	0.7	
6	☐	1.000		1098050.29		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5144582.62		A	0.2	
2	☐	1.000		5137782.22		A	0.6	
3	☐	1.000		5148852.71		A	1.1	
4	☐	1.000		5123281.63		A	0.7	
5	☐	1.000		4999629.60		A	0.6	
6	☐	1.000		4853657.02		A	0.2	

Calibration for 123_ICV.d

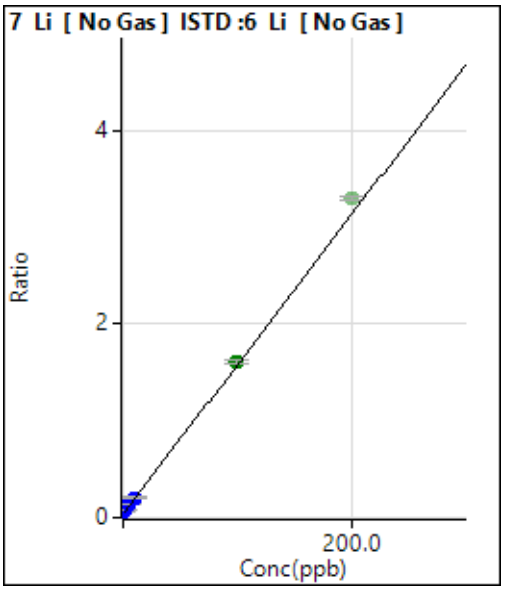


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4944445.55		A	1.4	
2	☐	1.000		4967616.70		A	1.0	
3	☐	1.000		4977585.03		A	0.1	
4	☐	1.000		5040043.05		A	0.3	
5	☐	1.000		4891836.59		A	1.2	
6	☐	1.000		4884540.86		A	0.8	

Calibration for 019_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

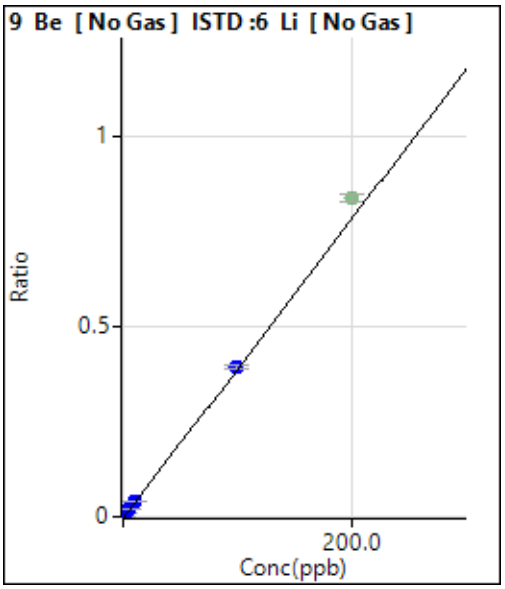
Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/25/2024 10:33:10 AM
2	011CALS.d	2/10/200	6/25/2024 10:35:53 AM
3	012CALS.d	5/25/500	6/25/2024 10:38:34 AM
4	013CALS.d	10/50/100	6/25/2024 10:41:15 AM
5	017CALS.d	100/500/10K	6/25/2024 10:54:32 AM
6	015CALS.d	200/1000/20K	6/25/2024 10:46:33 AM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95109.43	0.0556	P	0.2	
2	☐	2.000	1.920	146884.63	0.0853	P	1.6	-4.0
3	☐	5.000	4.841	218591.44	0.1304	P	1.3	-3.2
4	☐	10.000	9.815	340796.34	0.2073	P	1.2	-1.9
5	☐	100.000	100.028	2490753.19	1.6010	A	2.6	0.0
6	☑	200.000		4828676.80	3.2967	A	1.3	

y = 0.0154 * x + 0.0556
R = 1.0000
DL = 0.02597 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

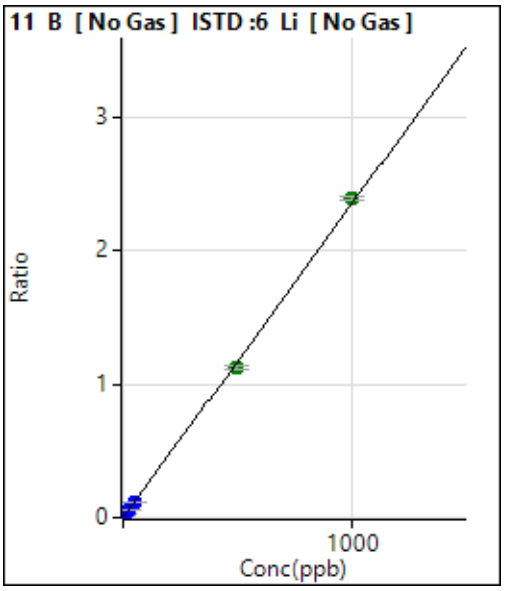


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0002	P	5.8	
2	☐	2.000	1.913	13332.98	0.0077	P	2.5	-4.3
3	☐	5.000	4.795	31982.57	0.0191	P	2.3	-4.1
4	☐	10.000	9.736	63339.98	0.0385	P	1.5	-2.6
5	☐	100.000	100.038	612588.03	0.3938	P	2.9	0.0
6	☑	200.000		1228024.38	0.8384	A	2.0	

y = 0.0039 * x + 2.1639E-004
R = 1.0000
DL = 0.009619 ppb
BEC = 0.055 ppb

Weight: <None>
Min Conc: <None>

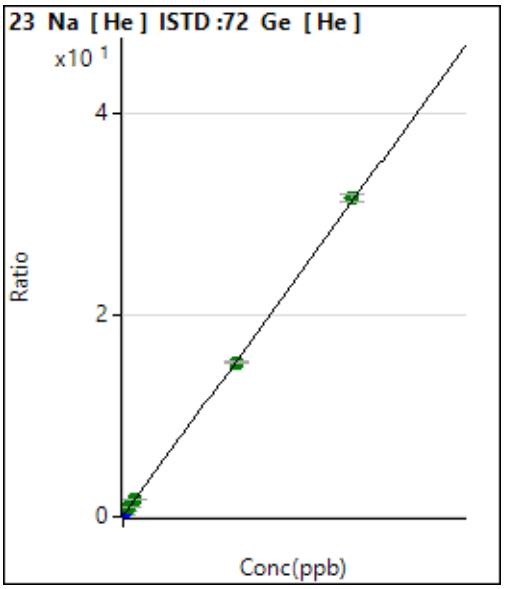
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19585.24	0.0115	P	1.0	
2	☐	10.000	8.404	53786.34	0.0312	P	2.6	-16.0
3	☐	25.000	22.147	106565.72	0.0636	P	0.9	-11.4
4	☐	50.000	46.381	198326.89	0.1206	P	2.3	-7.2
5	☐	500.000	473.544	1751959.19	1.1260	A	1.6	-5.3
6	☐	1000.000	1013.496	3510760.36	2.3969	A	1.3	1.3

y = 0.0024 * x + 0.0115
R = 0.9995
DL = 0.1393 ppb
BEC = 4.866 ppb

Weight: <None>
Min Conc: <None>

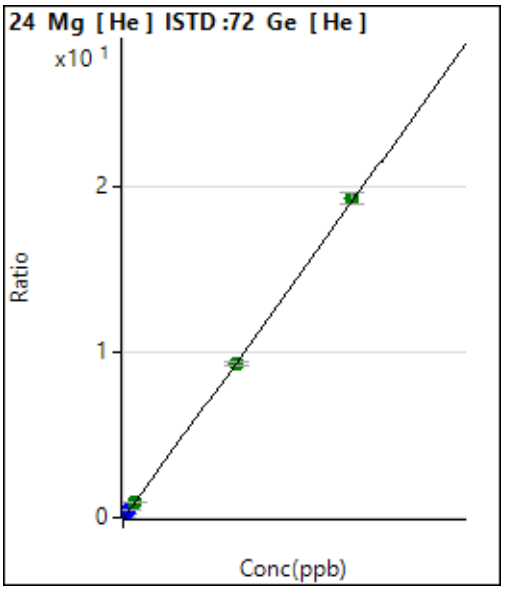


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	288606.42	0.2451	P	1.4	
2	☐	200.000	177.589	622281.82	0.5213	P	1.0	-11.2
3	☐	500.000	473.179	1151604.43	0.9810	A	1.8	-5.4
4	☐	1000.000	977.456	2041607.21	1.7652	A	1.2	-2.3
5	☐	10000.00	9676.744	17407033.07	15.2937	A	1.6	-3.2
6	☐	20000.00	20163.65	3504496448	31.6022	A	2.8	0.8

y = 0.0016 * x + 0.2451
R = 0.9998
DL = 6.411 ppb
BEC = 157.6 ppb

Weight: <None>
Min Conc: <None>

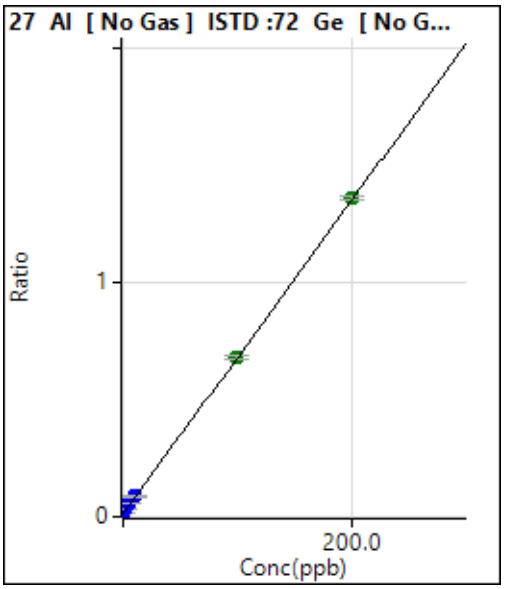
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2800.34	0.0024	P	2.9	
2	☐	200.000	188.332	218868.20	0.1833	P	2.1	-5.8
3	☐	500.000	476.135	539864.42	0.4598	P	1.8	-4.8
4	☐	1000.000	980.631	1092519.88	0.9446	A	1.5	-1.9
5	☐	10000.00	9714.978	10626664.43	9.3364	A	1.8	-2.9
6	☐	20000.00	20144.19	21464943.01	19.3567	A	3.2	0.7

y = 9.6079E-004 * x + 0.0024
R = 0.9999
DL = 0.2145 ppb
BEC = 2.475 ppb

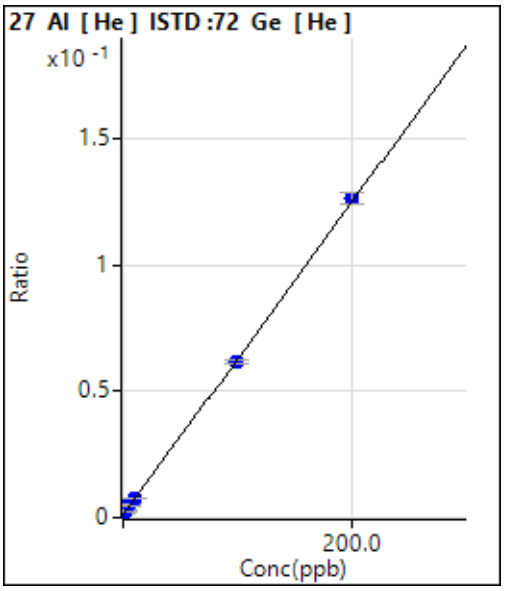
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79772.13	0.0192	P	2.2	
2	☐	2.000	1.525	123569.26	0.0294	P	2.4	-23.8
3	☐	5.000	5.524	232171.49	0.0562	P	7.8	10.5
4	☐	10.000	10.174	358454.78	0.0874	P	2.6	1.7
5	☐	100.000	98.905	2713647.56	0.6822	A	1.7	-1.1
6	☐	200.000	200.531	5281947.84	1.3634	A	1.7	0.3

y = 0.0067 * x + 0.0192
R = 1.0000
DL = 0.1901 ppb
BEC = 2.859 ppb

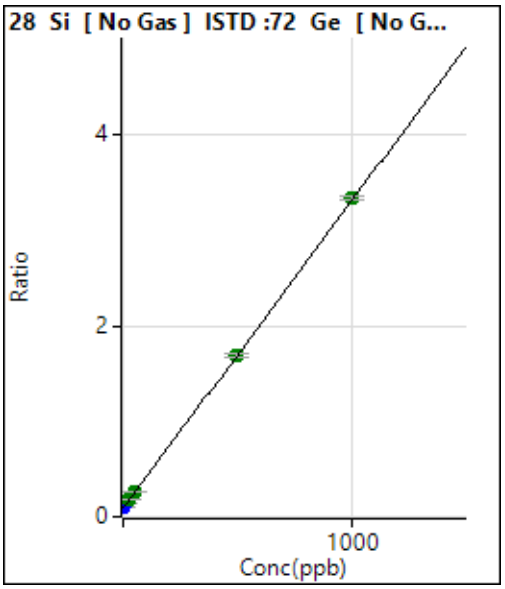
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2066.86	0.0018	P	3.4	
2	☐	2.000	1.406	3137.07	0.0026	P	7.0	-29.7
3	☐	5.000	5.203	5844.66	0.0050	P	1.6	4.1
4	☐	10.000	9.473	8816.28	0.0076	P	5.9	-5.3
5	☐	100.000	96.780	70231.85	0.0617	P	3.0	-3.2
6	☐	200.000	201.637	140454.75	0.1267	P	3.5	0.8

y = 6.1944E-004 * x + 0.0018
R = 0.9998
DL = 0.2864 ppb
BEC = 2.834 ppb

Weight: <None>
Min Conc: <None>

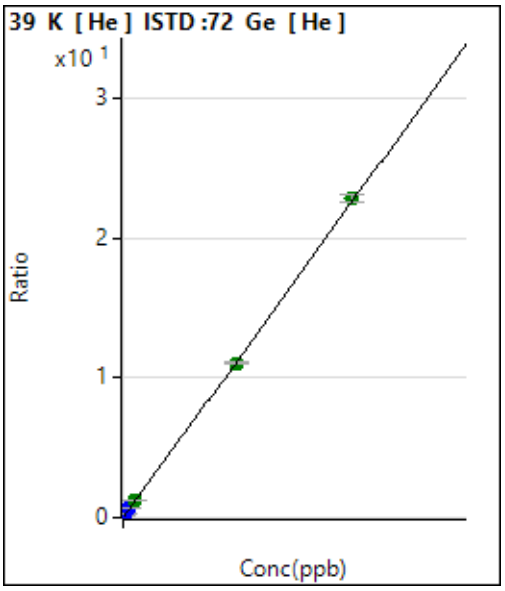


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	438318.65	0.1053	P	0.4	
2	☐	10.000	9.287	568752.14	0.1353	P	0.2	-7.1
3	☐	25.000	24.351	759668.97	0.1839	A	0.1	-2.6
4	☐	50.000	49.749	1090527.61	0.2658	A	1.3	-0.5
5	☐	500.000	492.180	6734428.23	1.6930	A	1.8	-1.6
6	☐	1000.000	1003.946	12953963.98	3.3438	A	1.5	0.4

y = 0.0032 * x + 0.1053
R = 1.0000
DL = 0.4316 ppb
BEC = 32.65 ppb

Weight: <None>
Min Conc: <None>

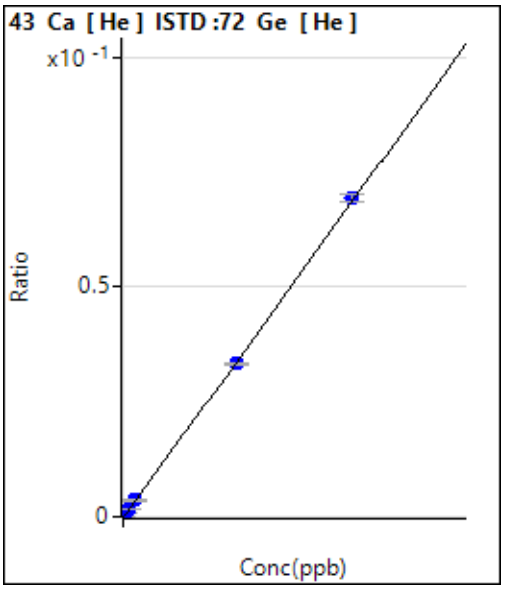
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	119097.76	0.1011	P	0.3	
2	☐	200.000	186.455	372135.50	0.3117	P	0.3	-6.8
3	☐	500.000	475.349	748983.87	0.6380	P	1.9	-4.9
4	☐	1000.000	982.636	1400574.72	1.2109	A	1.3	-1.7
5	☐	10000.00	9705.924	12591435.65	11.0629	A	1.7	-2.9
6	☐	20000.00	20148.65	25347163.79	22.8567	A	2.3	0.7

y = 0.0011 * x + 0.1011
R = 0.9999
DL = 0.6747 ppb
BEC = 89.55 ppb

Weight: <None>
Min Conc: <None>

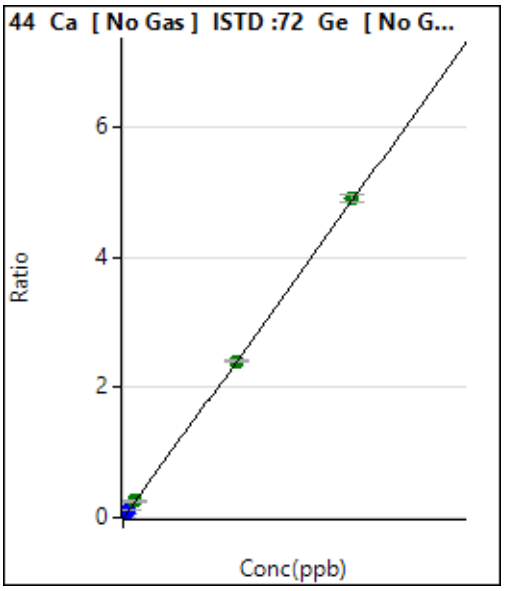


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	44.0	
2	☐	200.000	220.012	956.72	0.0008	P	6.9	10.0
3	☐	500.000	475.202	1970.17	0.0017	P	1.5	-5.0
4	☐	1000.000	1040.743	4187.37	0.0036	P	5.6	4.1
5	☐	10000.00	9668.254	37855.14	0.0333	P	1.7	-3.3
6	☐	20000.00	20164.25	76871.75	0.0693	P	2.5	0.8

y = 3.4355E-006 * x + 4.5378E-005
R = 0.9998
DL = 17.45 ppb
BEC = 13.21 ppb

Weight: <None>
Min Conc: <None>

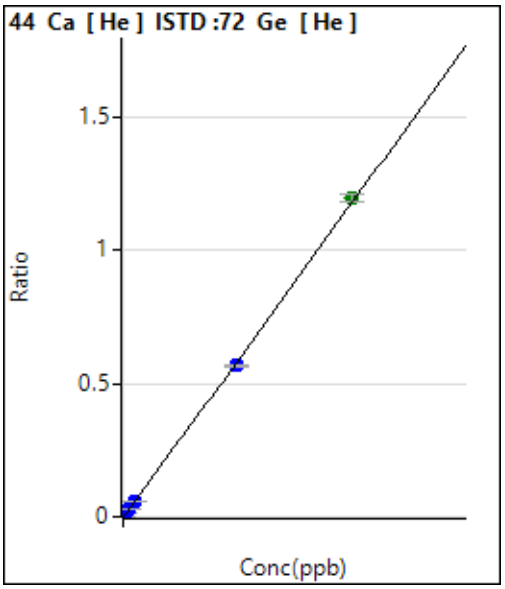
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54075.33	0.0130	P	1.7	
2	☐	200.000	198.146	257829.67	0.0613	P	1.6	-0.9
3	☐	500.000	486.430	543875.83	0.1316	P	2.3	-2.7
4	☐	1000.000	981.332	1035362.72	0.2524	A	1.5	-1.9
5	☐	10000.00	9825.374	9584837.57	2.4095	A	2.1	-1.7
6	☐	20000.00	20088.60	19032093.05	4.9128	A	2.3	0.4

y = 2.4391E-004 * x + 0.0130
R = 0.9999
DL = 2.69 ppb
BEC = 53.27 ppb

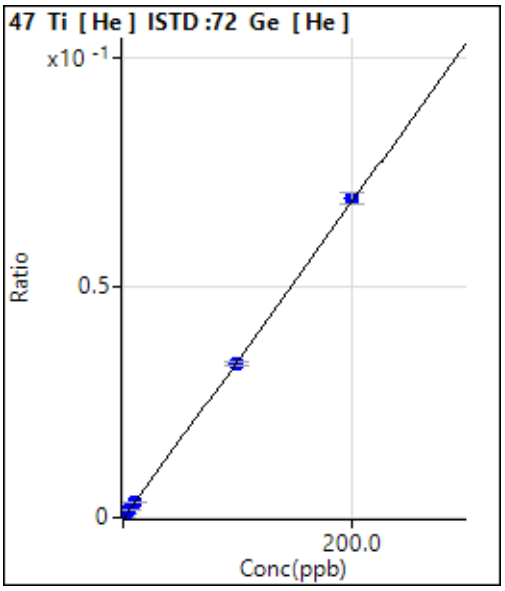
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	15.2	
2	☐	200.000	193.959	15048.30	0.0126	P	2.3	-3.0
3	☐	500.000	468.624	33828.14	0.0288	P	1.5	-6.3
4	☐	1000.000	970.349	67563.50	0.0584	P	2.2	-3.0
5	☐	10000.00	9557.200	643072.29	0.5650	P	1.4	-4.4
6	☐	20000.00	20223.72	1324475.06	1.1943	A	2.6	1.1

y = 5.8999E-005 * x + 0.0012
R = 0.9997
DL = 9 ppb
BEC = 19.72 ppb

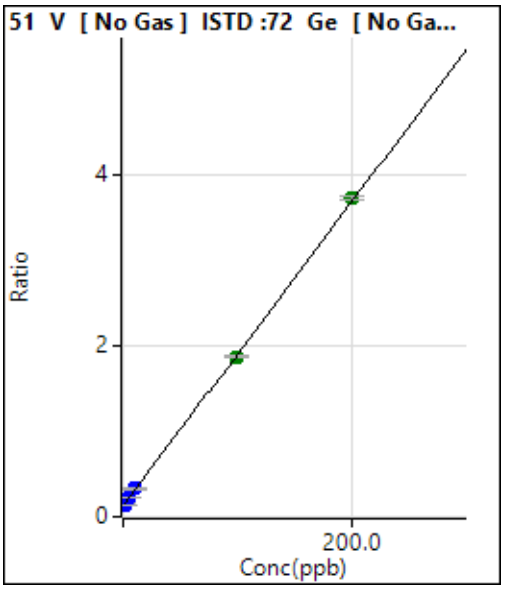
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	44.0	
2	☐	2.000	1.824	776.70	0.0007	P	5.7	-8.8
3	☐	5.000	4.469	1833.49	0.0016	P	12.4	-10.6
4	☐	10.000	9.439	3783.92	0.0033	P	4.4	-5.6
5	☐	100.000	97.296	38132.74	0.0335	P	2.0	-2.7
6	☐	200.000	201.395	76872.09	0.0693	P	3.7	0.7

y = 3.4411E-004 * x + 2.2689E-005
R = 0.9999
DL = 0.08712 ppb
BEC = 0.06593 ppb

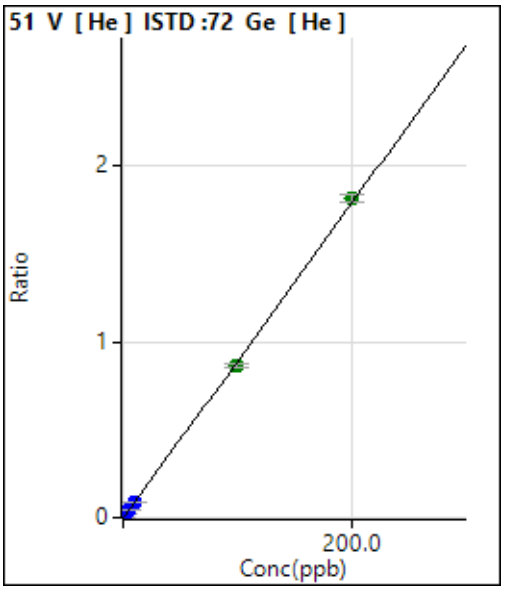
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	623488.18	0.1498	P	1.4	
2	☐	2.000	-0.404	599723.22	0.1426	P	1.6	-120.2
3	☐	5.000	4.124	921434.11	0.2230	P	1.8	-17.5
4	☐	10.000	9.910	1336488.84	0.3257	P	1.1	-0.9
5	☐	100.000	96.962	7443170.55	1.8711	A	1.6	-3.0
6	☐	200.000	201.570	14443088.49	3.7282	A	1.8	0.8

y = 0.0178 * x + 0.1498
R = 0.9998
DL = 0.3599 ppb
BEC = 8.439 ppb

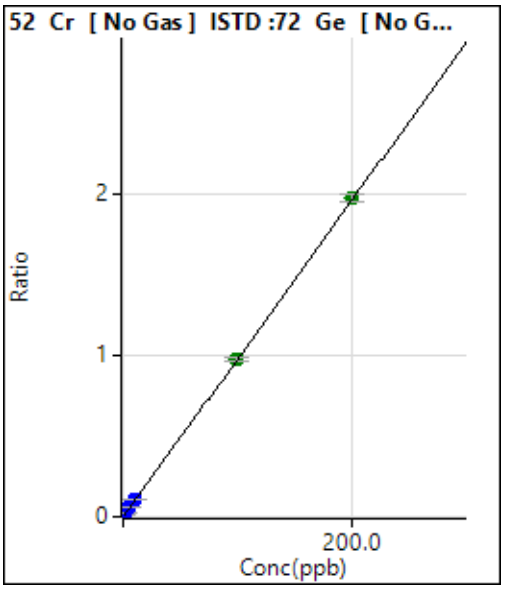
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5106.53	0.0043	P	1.3	
2	☐	2.000	1.750	23909.53	0.0200	P	1.6	-12.5
3	☐	5.000	4.697	54554.53	0.0465	P	2.7	-6.1
4	☐	10.000	9.668	105327.92	0.0911	P	2.7	-3.3
5	☐	100.000	95.893	984011.87	0.8645	A	1.7	-4.1
6	☐	200.000	202.080	2015089.64	1.8171	A	3.0	1.0

y = 0.0090 * x + 0.0043
R = 0.9997
DL = 0.01826 ppb
BEC = 0.4834 ppb

Weight: <None>
Min Conc: <None>

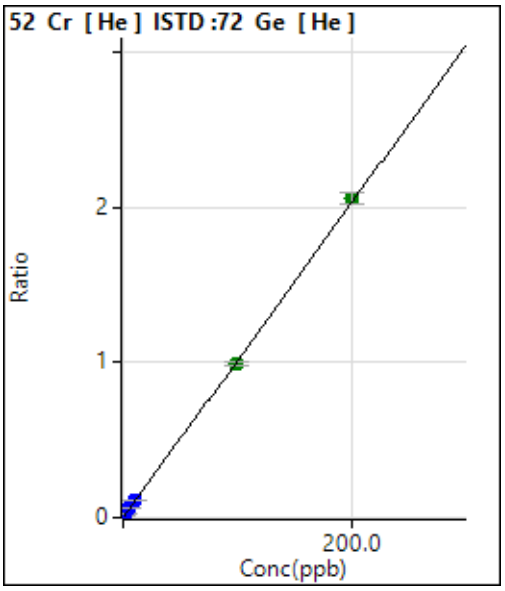


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37434.31	0.0090	P	2.1	
2	☐	2.000	1.766	110679.48	0.0263	P	1.8	-11.7
3	☐	5.000	4.828	232859.77	0.0564	P	1.3	-3.4
4	☐	10.000	9.872	434256.59	0.1058	P	1.5	-1.3
5	☐	100.000	98.544	3881322.96	0.9757	A	1.8	-1.5
6	☐	200.000	200.741	7663884.26	1.9783	A	1.9	0.4

y = 0.0098 * x + 0.0090
R = 1.0000
DL = 0.05682 ppb
BEC = 0.9169 ppb

Weight: <None>
Min Conc: <None>

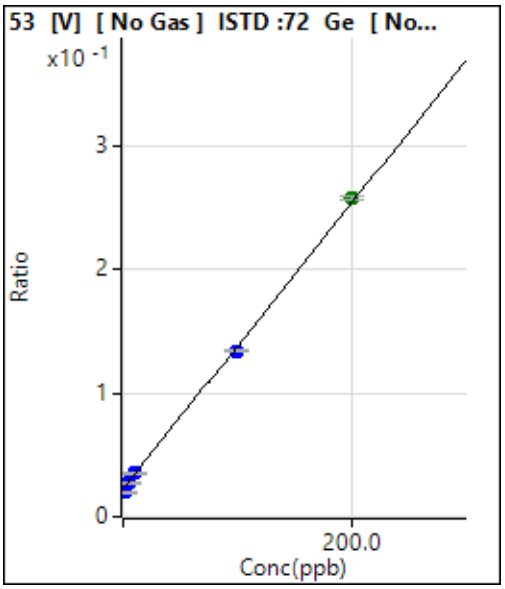
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12652.62	0.0107	P	4.0	
2	☐	2.000	1.538	31466.12	0.0264	P	1.3	-23.1
3	☐	5.000	4.828	70170.90	0.0598	P	2.5	-3.4
4	☐	10.000	9.941	129188.69	0.1117	P	2.7	-0.6
5	☐	100.000	96.416	1126568.11	0.9898	A	2.4	-3.6
6	☐	200.000	201.804	2284256.84	2.0599	A	3.2	0.9

y = 0.0102 * x + 0.0107
R = 0.9998
DL = 0.1276 ppb
BEC = 1.058 ppb

Weight: <None>
Min Conc: <None>

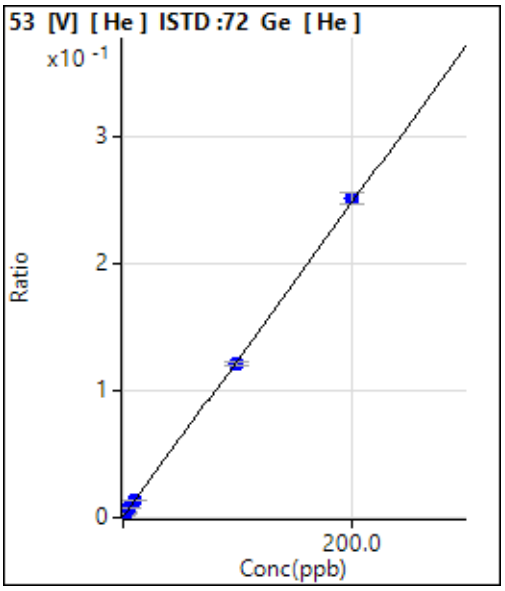


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101036.73	0.0243	P	1.8	
2	☐	2.000	-4.140	81968.87	0.0195	P	2.1	-307.0
3	☐	5.000	2.731	113331.30	0.0274	P	2.6	-45.4
4	☐	10.000	9.394	144120.20	0.0351	P	0.9	-6.1
5	☐	100.000	95.281	534242.26	0.1343	P	1.3	-4.7
6	☐	200.000	202.508	999993.19	0.2581	A	1.4	1.3

y = 0.0012 * x + 0.0243
R = 0.9994
DL = 1.125 ppb
BEC = 21.02 ppb

Weight: <None>
Min Conc: <None>

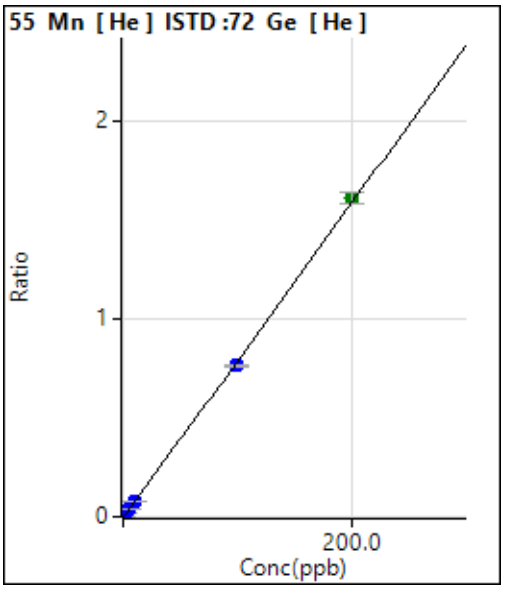
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2336.92	0.0020	P	0.1	
2	☐	2.000	1.449	4500.82	0.0038	P	3.2	-27.5
3	☐	5.000	4.493	8833.00	0.0075	P	6.0	-10.1
4	☐	10.000	9.573	15946.03	0.0138	P	1.4	-4.3
5	☐	100.000	96.223	137279.10	0.1206	P	2.1	-3.8
6	☐	200.000	201.928	278261.94	0.2509	P	3.1	1.0

y = 0.0012 * x + 0.0020
R = 0.9998
DL = 0.003174 ppb
BEC = 1.61 ppb

Weight: <None>
Min Conc: <None>

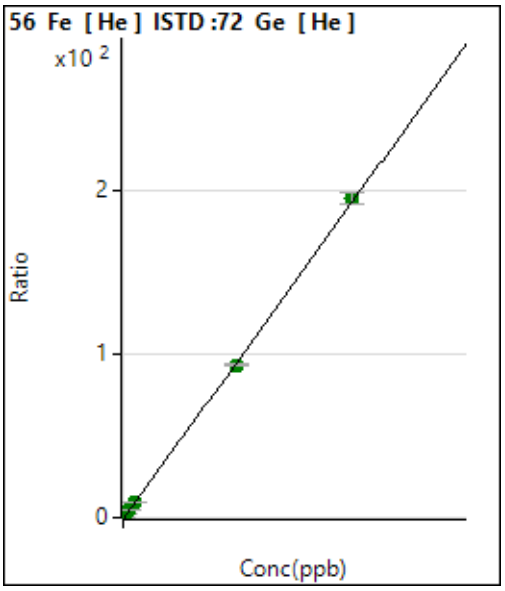


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1773.48	0.0015	P	5.5	
2	☐	2.000	1.839	19250.32	0.0161	P	2.2	-8.0
3	☐	5.000	4.861	47140.58	0.0402	P	1.7	-2.8
4	☐	10.000	9.816	92011.73	0.0795	P	2.8	-1.8
5	☐	100.000	95.630	867052.17	0.7618	P	1.4	-4.4
6	☐	200.000	202.199	1784314.40	1.6091	A	3.4	1.1

y = 0.0080 * x + 0.0015
R = 0.9997
DL = 0.03105 ppb
BEC = 0.1895 ppb

Weight: <None>
Min Conc: <None>

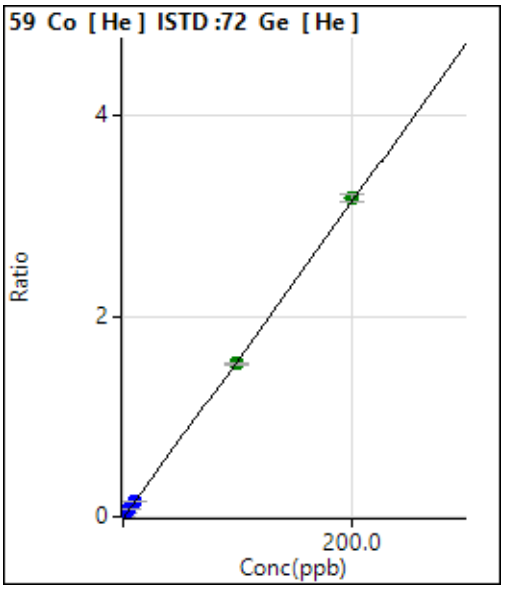
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43278.54	0.0367	P	0.9	
2	☐	200.000	188.123	2218554.55	1.8583	A	1.2	-5.9
3	☐	500.000	480.763	5508640.75	4.6918	A	2.3	-3.8
4	☐	1000.000	985.434	11078721.09	9.5783	A	2.2	-1.5
5	☐	10000.00	9640.722	106286848.4	93.3839	A	1.3	-3.6
6	☐	20000.00	20180.96	216728676.7	195.440	A	3.2	0.9

y = 0.0097 * x + 0.0367
R = 0.9998
DL = 0.1028 ppb
BEC = 3.795 ppb

Weight: <None>
Min Conc: <None>

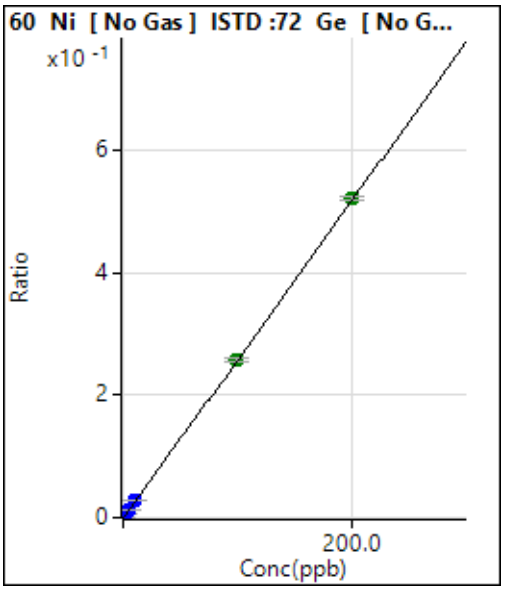


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1033.39	0.0009	P	12.3	
2	☐	2.000	1.923	37253.94	0.0312	P	4.1	-3.9
3	☐	5.000	4.873	91277.55	0.0777	P	3.4	-2.5
4	☐	10.000	10.047	184353.51	0.1594	P	2.7	0.5
5	☐	100.000	96.844	1739956.22	1.5287	A	1.6	-3.2
6	☐	200.000	201.580	3527645.26	3.1810	A	2.4	0.8

y = 0.0158 * x + 8.7793E-004
R = 0.9998
DL = 0.02052 ppb
BEC = 0.05565 ppb

Weight: <None>
Min Conc: <None>

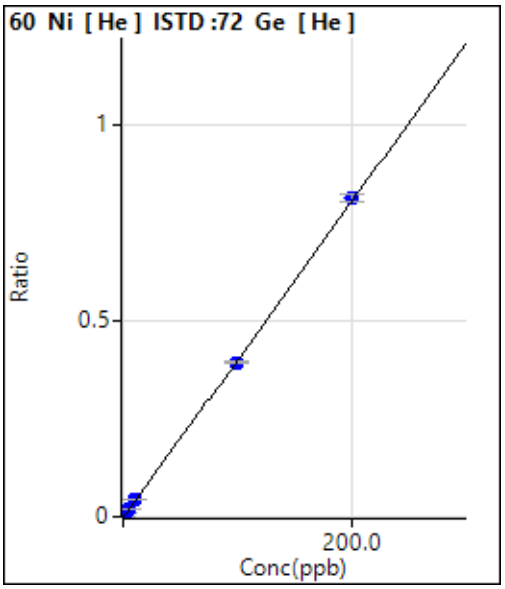
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4237.40	0.0010	P	1.1	
2	☐	2.000	1.918	25250.18	0.0060	P	1.5	-4.1
3	☐	5.000	4.998	57898.44	0.0140	P	2.2	0.0
4	☐	10.000	10.113	112049.36	0.0273	P	1.1	1.1
5	☐	100.000	98.616	1023925.77	0.2574	A	2.1	-1.4
6	☐	200.000	200.687	2025283.09	0.5228	A	1.4	0.3

y = 0.0026 * x + 0.0010
R = 1.0000
DL = 0.01257 ppb
BEC = 0.3916 ppb

Weight: <None>
Min Conc: <None>

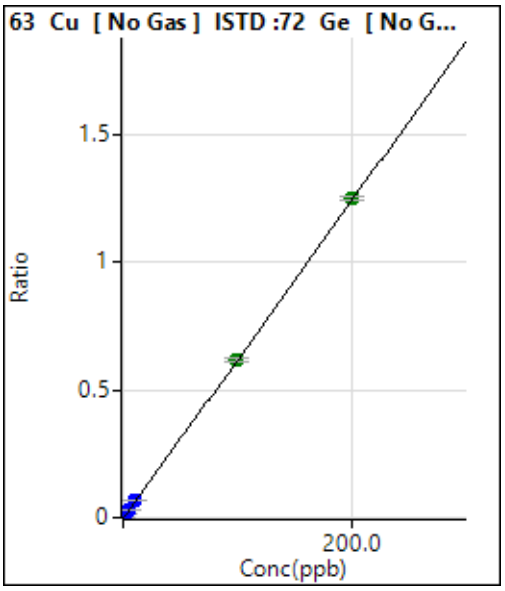


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	2.3	
2	☐	2.000	1.973	10907.82	0.0091	P	7.7	-1.3
3	☐	5.000	4.850	24391.83	0.0208	P	2.6	-3.0
4	☐	10.000	10.255	49315.27	0.0426	P	2.2	2.6
5	☐	100.000	97.350	449400.83	0.3948	P	1.8	-2.7
6	☐	200.000	201.316	904123.53	0.8153	P	2.0	0.7

y = 0.0040 * x + 0.0012
R = 0.9999
DL = 0.0196 ppb
BEC = 0.2877 ppb

Weight: <None>
Min Conc: <None>

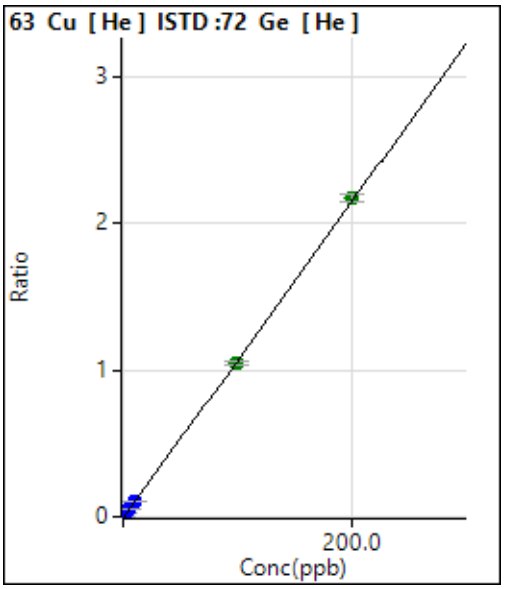
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7608.90	0.0018	P	4.3	
2	☐	2.000	2.006	60252.13	0.0143	P	3.6	0.3
3	☐	5.000	5.060	137858.86	0.0334	P	2.6	1.2
4	☐	10.000	10.184	267930.58	0.0653	P	2.0	1.8
5	☐	100.000	98.992	2461635.85	0.6188	A	1.8	-1.0
6	☐	200.000	200.493	4848458.99	1.2515	A	1.2	0.2

y = 0.0062 * x + 0.0018
R = 1.0000
DL = 0.03749 ppb
BEC = 0.2933 ppb

Weight: <None>
Min Conc: <None>

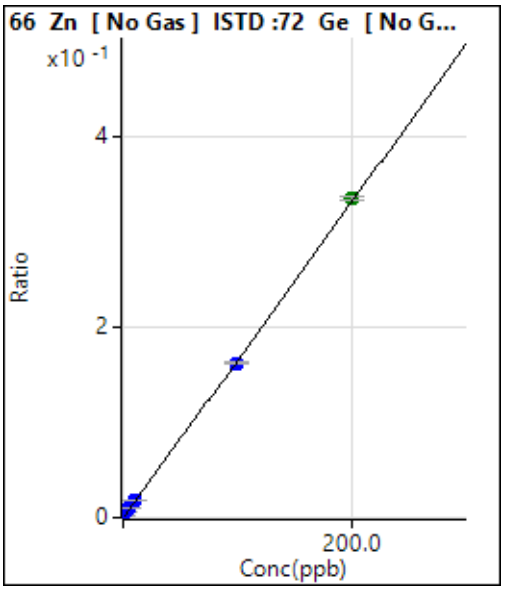


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.09	0.0011	P	16.3	
2	☐	2.000	1.925	26111.82	0.0219	P	2.4	-3.8
3	☐	5.000	4.936	63848.37	0.0544	P	1.2	-1.3
4	☐	10.000	10.015	126312.89	0.1092	P	0.4	0.1
5	☐	100.000	96.995	1193030.61	1.0482	A	1.7	-3.0
6	☐	200.000	201.504	2413664.39	2.1764	A	1.8	0.8

y = 0.0108 * x + 0.0011
R = 0.9998
DL = 0.04961 ppb
BEC = 0.1014 ppb

Weight: <None>
Min Conc: <None>

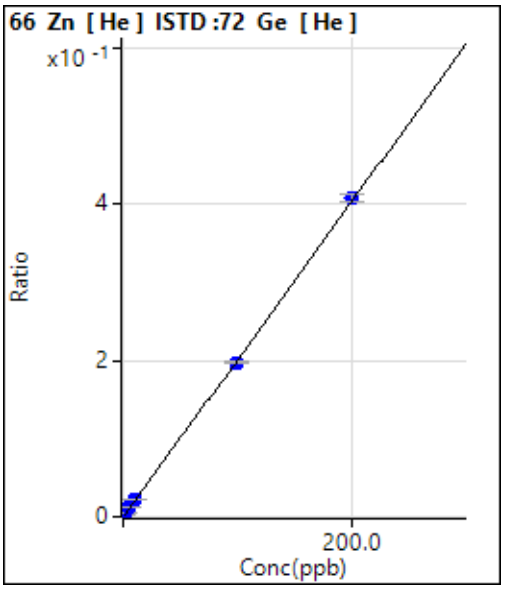
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4424.13	0.0011	P	4.0	
2	☐	2.000	2.492	21897.70	0.0052	P	3.4	24.6
3	☐	5.000	5.019	38885.42	0.0094	P	4.4	0.4
4	☐	10.000	10.061	73027.29	0.0178	P	1.2	0.6
5	☐	100.000	97.306	648074.41	0.1629	P	2.0	-2.7
6	☐	200.000	201.339	1301588.63	0.3360	A	1.5	0.7

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.07603 ppb
BEC = 0.639 ppb

Weight: <None>
Min Conc: <None>

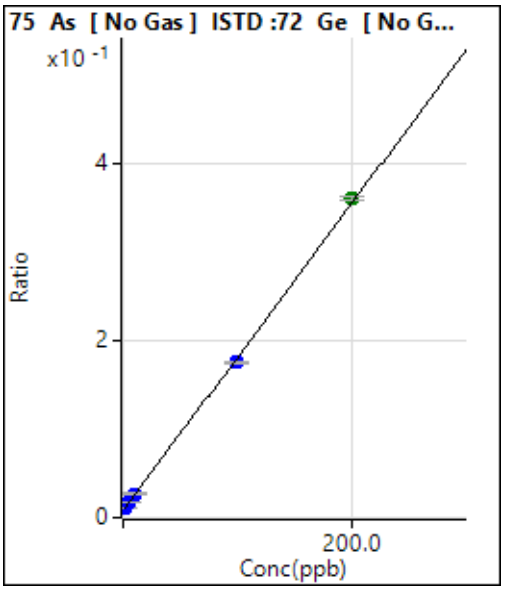


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1546.78	0.0013	P	6.9	
2	☐	2.000	2.350	7238.72	0.0061	P	0.9	17.5
3	☐	5.000	4.954	13299.97	0.0113	P	3.7	-0.9
4	☐	10.000	10.064	25053.27	0.0217	P	1.3	0.6
5	☐	100.000	97.122	224987.90	0.1977	P	1.9	-2.9
6	☐	200.000	201.433	453103.39	0.4086	P	2.6	0.7

y = 0.0020 * x + 0.0013
R = 0.9998
DL = 0.1336 ppb
BEC = 0.6498 ppb

Weight: <None>
Min Conc: <None>

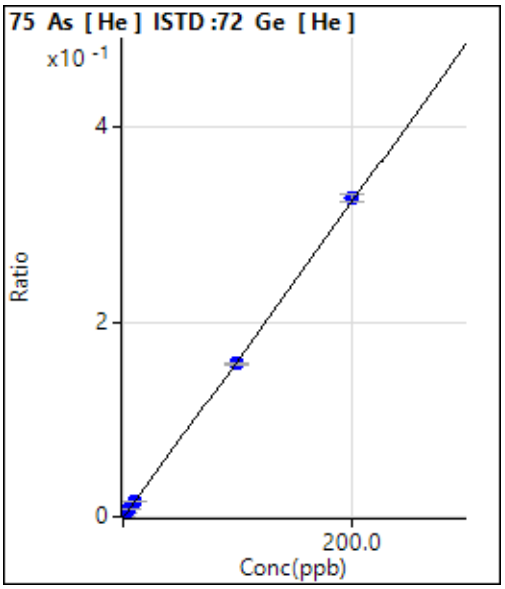
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41420.07	0.0100	P	2.2	
2	☐	2.000	0.174	43111.79	0.0103	P	0.8	-91.3
3	☐	5.000	4.236	71393.00	0.0173	P	2.2	-15.3
4	☐	10.000	9.765	110125.14	0.0268	P	2.7	-2.4
5	☐	100.000	95.313	695363.61	0.1748	P	1.6	-4.7
6	☐	200.000	202.393	1394740.55	0.3600	A	1.6	1.2

y = 0.0017 * x + 0.0100
R = 0.9996
DL = 0.3786 ppb
BEC = 5.754 ppb

Weight: <None>
Min Conc: <None>

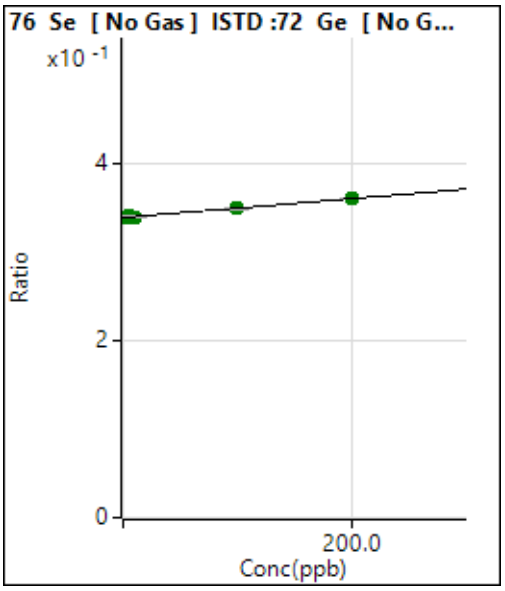


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	356.67	0.0003	P	6.9	
2	☐	2.000	1.841	3928.36	0.0033	P	3.7	-7.9
3	☐	5.000	4.835	9564.50	0.0081	P	4.6	-3.3
4	☐	10.000	9.803	18745.11	0.0162	P	1.3	-2.0
5	☐	100.000	96.787	179057.99	0.1573	P	1.7	-3.2
6	☐	200.000	201.622	363060.04	0.3274	P	2.6	0.8

y = 0.0016 * x + 3.0293E-004
R = 0.9998
DL = 0.03847 ppb
BEC = 0.1867 ppb

Weight: <None>
Min Conc: <None>

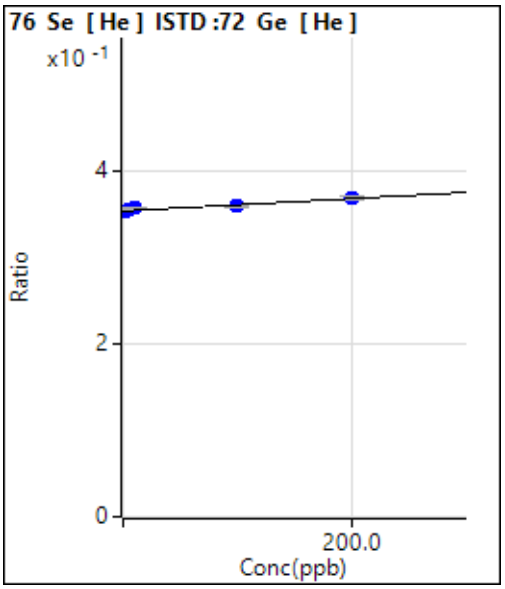
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1411471.07	0.3391	A	0.2	
2	☐	2.000	-6.447	1422952.53	0.3384	A	0.7	-422.4
3	☐	5.000	11.669	1406365.14	0.3404	A	0.6	133.4
4	☐	10.000	6.783	1394506.23	0.3399	A	0.4	-32.2
5	☐	100.000	95.860	1390091.65	0.3495	A	0.5	-4.1
6	☐	200.000	202.148	1398200.03	0.3609	A	0.3	1.1

y = 1.0766E-004 * x + 0.3391
R = 0.9980
DL = 22.78 ppb
BEC = 3150 ppb

Weight: <None>
Min Conc: <None>

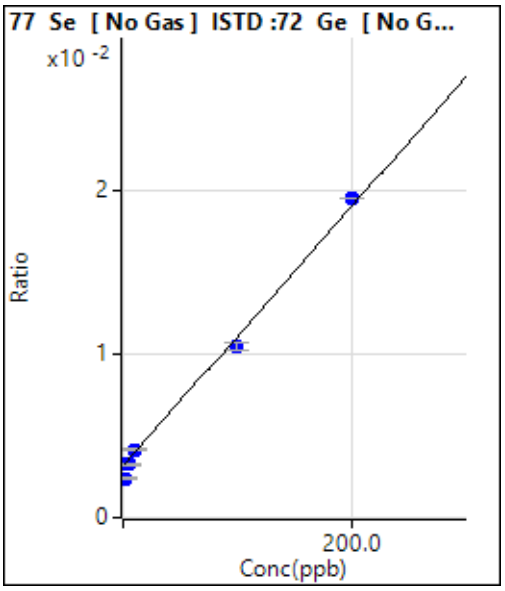


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416216.30	0.3534	P	0.2	
2	☐	2.000	-11.688	420892.72	0.3526	P	1.0	-684.4
3	☐	5.000	21.482	416774.79	0.3550	P	0.9	329.6
4	☐	10.000	49.882	412980.25	0.3571	P	0.7	398.8
5	☐	100.000	78.995	408769.76	0.3592	P	0.4	-21.0
6	☐	200.000	208.233	408732.73	0.3686	P	1.5	4.1

y = 7.2568E-005 * x + 0.3534
R = 0.9636
DL = 35.82 ppb
BEC = 4870 ppb

Weight: <None>
Min Conc: <None>

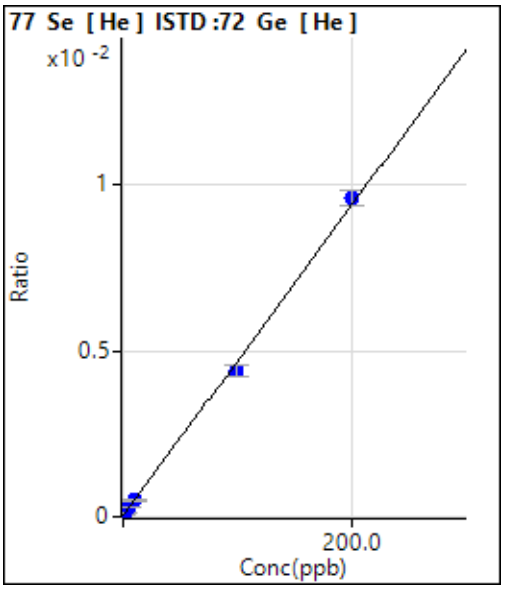
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13703.79	0.0033	P	1.8	
2	☐	2.000	-11.125	10137.27	0.0024	P	3.9	-656.3
3	☐	5.000	-0.623	13400.07	0.0032	P	2.7	-112.5
4	☐	10.000	10.886	17050.96	0.0042	P	2.4	8.9
5	☐	100.000	90.162	41516.84	0.0104	P	4.7	-9.8
6	☐	200.000	205.146	75736.43	0.0195	P	0.3	2.6

y = 7.9240E-005 * x + 0.0033
R = 0.9972
DL = 2.21 ppb
BEC = 41.55 ppb

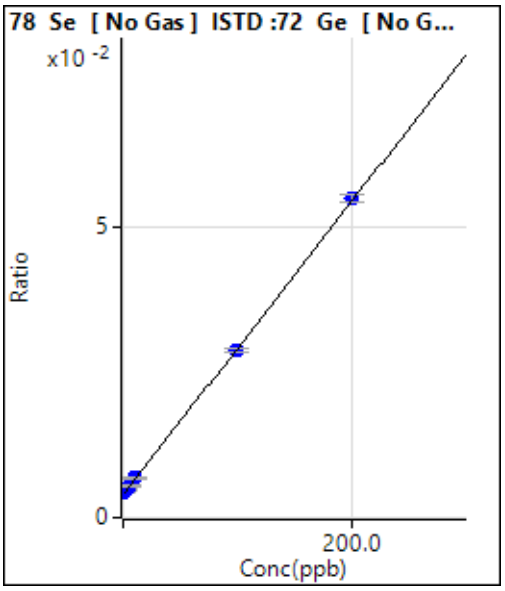
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	6.5	
2	☐	2.000	1.111	156.67	0.0001	P	8.5	-44.4
3	☐	5.000	4.796	356.68	0.0003	P	8.8	-4.1
4	☐	10.000	8.887	573.36	0.0005	P	8.1	-11.1
5	☐	100.000	92.779	5034.34	0.0044	P	8.2	-7.2
6	☐	200.000	203.680	10667.72	0.0096	P	4.4	1.8

y = 4.6838E-005 * x + 7.9270E-005
R = 0.9991
DL = 0.3311 ppb
BEC = 1.692 ppb

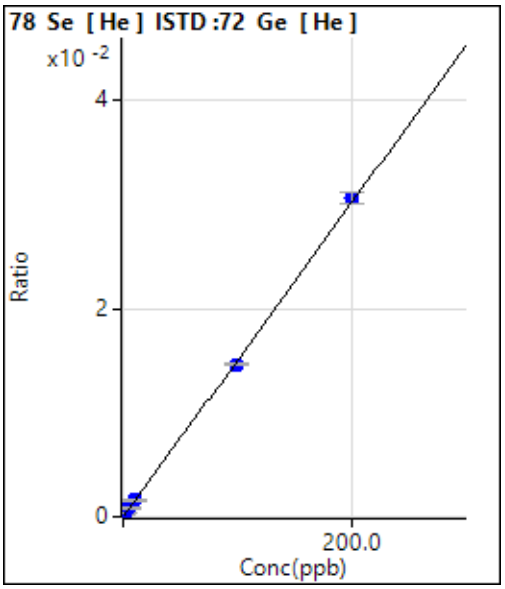
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17611.61	0.0042	P	2.6	
2	☐	2.000	2.103	20014.94	0.0048	P	2.4	5.2
3	☐	5.000	4.648	22311.83	0.0054	P	1.9	-7.0
4	☐	10.000	10.145	27828.68	0.0068	P	1.1	1.5
5	☐	100.000	97.785	114635.87	0.0288	P	2.4	-2.2
6	☐	200.000	201.108	212292.33	0.0548	P	2.0	0.6

y = 2.5143E-004 * x + 0.0042
R = 0.9999
DL = 1.302 ppb
BEC = 16.83 ppb

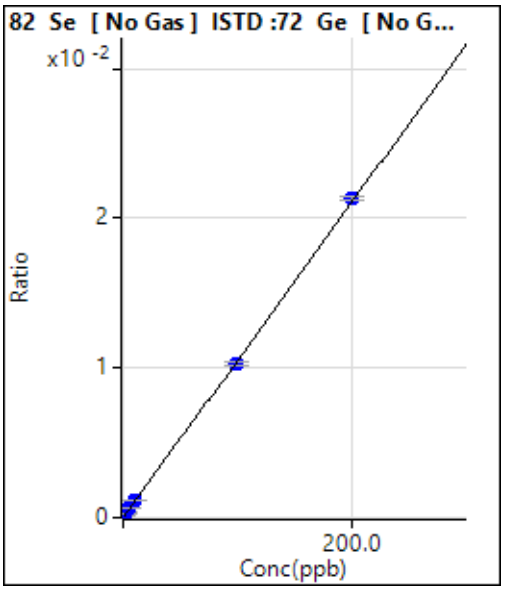
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	158.67	0.0001	P	8.1	
2	☐	2.000	2.023	525.34	0.0004	P	6.2	1.2
3	☐	5.000	4.647	981.37	0.0008	P	4.6	-7.1
4	☐	10.000	9.711	1850.80	0.0016	P	4.8	-2.9
5	☐	100.000	96.045	16650.84	0.0146	P	1.7	-4.0
6	☐	200.000	202.001	33953.46	0.0306	P	3.5	1.0

y = 1.5091E-004 * x + 1.3471E-004
R = 0.9997
DL = 0.216 ppb
BEC = 0.8926 ppb

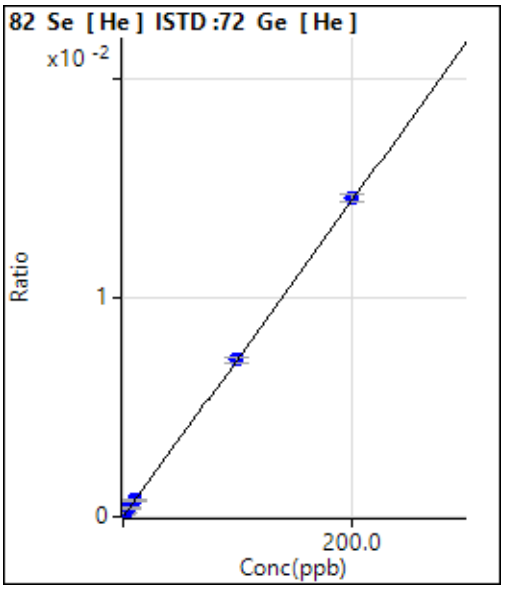
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	25.5	
2	☐	2.000	1.939	1290.09	0.0003	P	19.5	-3.1
3	☐	5.000	4.748	2490.28	0.0006	P	1.2	-5.0
4	☐	10.000	9.887	4694.22	0.0011	P	3.6	-1.1
5	☐	100.000	96.838	40985.51	0.0103	P	1.8	-3.2
6	☐	200.000	201.593	82664.00	0.0213	P	1.8	0.8

y = 1.0534E-004 * x + 1.0258E-004
R = 0.9998
DL = 0.7442 ppb
BEC = 0.9739 ppb

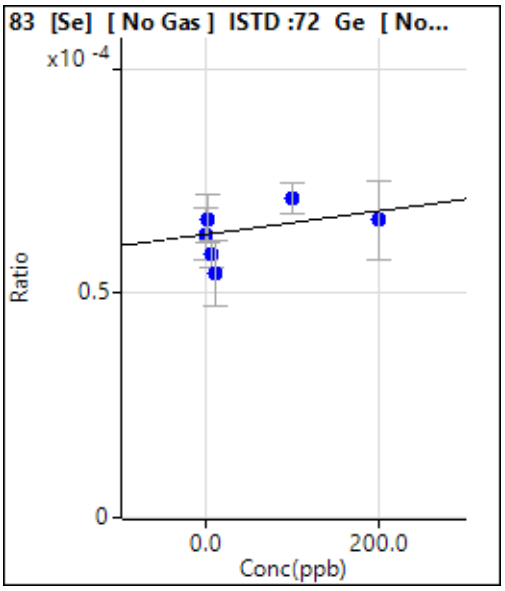
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	22.0	
2	☐	2.000	1.461	206.68	0.0002	P	20.2	-26.9
3	☐	5.000	4.684	476.68	0.0004	P	20.7	-6.3
4	☐	10.000	9.567	876.71	0.0008	P	9.0	-4.3
5	☐	100.000	98.378	8149.25	0.0072	P	3.4	-1.6
6	☐	200.000	200.846	16133.29	0.0145	P	2.0	0.4

y = 7.2094E-005 * x + 6.7964E-005
R = 1.0000
DL = 0.621 ppb
BEC = 0.9427 ppb

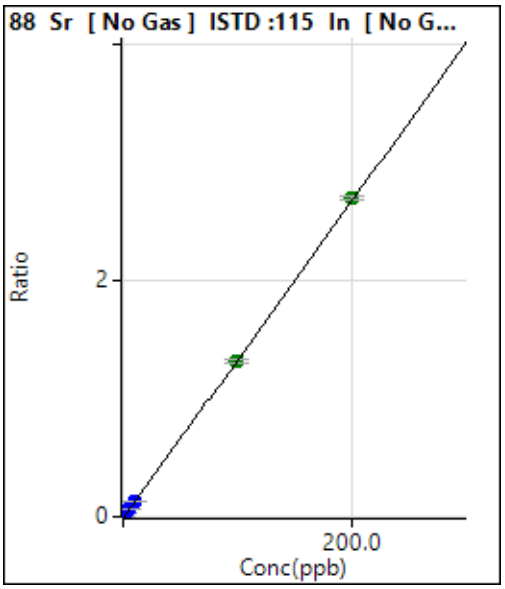
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	18.4	
2	☐	2.000	128.285	280.01	0.0001	P	16.3	6314.2
3	☐	5.000	-167.283	243.34	0.0001	P	10.2	-3445.7
4	☐	10.000	-339.012	223.34	0.0001	P	26.7	-3490.1
5	☐	100.000	305.817	283.34	0.0001	P	10.1	205.8
6	☐	200.000	117.586	256.68	0.0001	P	26.6	-41.2

y = 2.6064E-008 * x + 6.3252E-005
R = 0.5062
DL = 1341 ppb
BEC = 2427 ppb

Weight: <None>
Min Conc: <None>

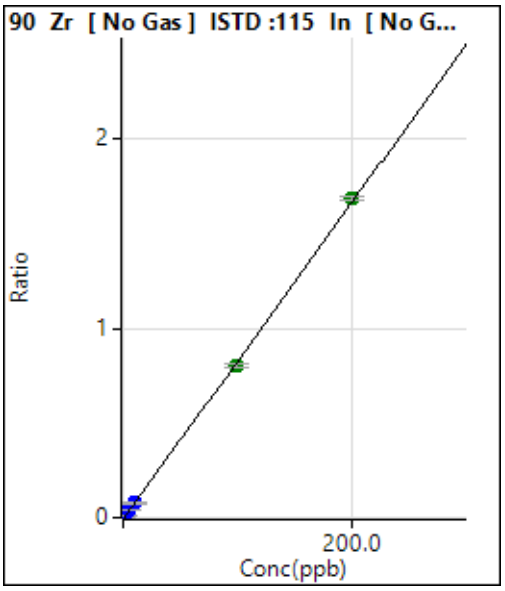


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4904.32	0.0009	P	7.3	
2	☐	2.000	1.864	137527.00	0.0259	P	1.2	-6.8
3	☐	5.000	4.711	337079.14	0.0641	P	1.1	-5.8
4	☐	10.000	9.534	674025.95	0.1287	P	0.6	-4.7
5	☐	100.000	97.841	6609469.07	1.3123	A	2.4	-2.2
6	☐	200.000	201.111	13219901.88	2.6964	A	1.3	0.6

y = 0.0134 * x + 9.2501E-004
R = 0.9999
DL = 0.01507 ppb
BEC = 0.06902 ppb

Weight: <None>
Min Conc: <None>

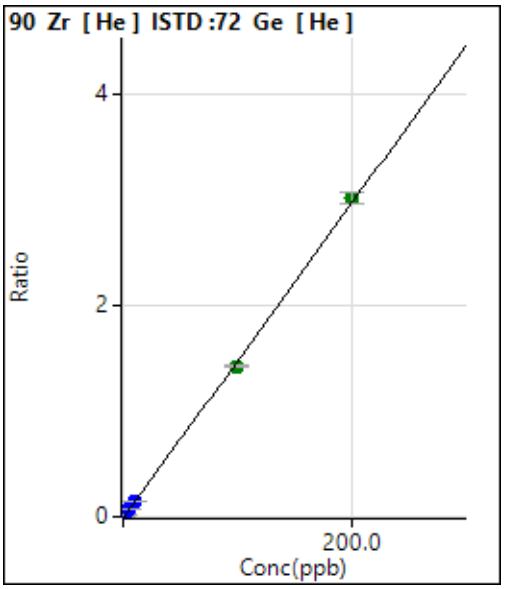
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2100.20	0.0004	P	19.4	
2	☐	2.000	1.596	72866.28	0.0137	P	1.3	-20.2
3	☐	5.000	4.327	192226.04	0.0365	P	1.7	-13.5
4	☐	10.000	9.154	402526.14	0.0769	P	1.8	-8.5
5	☐	100.000	96.419	4058347.96	0.8058	A	2.6	-3.6
6	☐	200.000	201.854	8268343.63	1.6864	A	1.4	0.9

y = 0.0084 * x + 3.9617E-004
R = 0.9998
DL = 0.02754 ppb
BEC = 0.04743 ppb

Weight: <None>
Min Conc: <None>

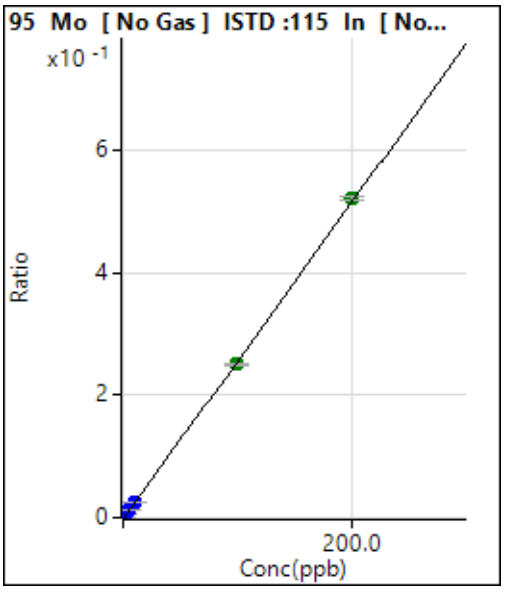


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0017	P	2.1	
2	☐	2.000	1.597	30474.83	0.0255	P	1.3	-20.2
3	☐	5.000	4.306	77360.72	0.0659	P	3.7	-13.9
4	☐	10.000	9.243	161276.68	0.1394	P	2.1	-7.6
5	☐	100.000	95.413	1619902.21	1.4232	A	2.0	-4.6
6	☐	200.000	202.353	3344962.35	3.0164	A	3.1	1.2

y = 0.0149 * x + 0.0017
R = 0.9997
DL = 0.007522 ppb
BEC = 0.1167 ppb

Weight: <None>
Min Conc: <None>

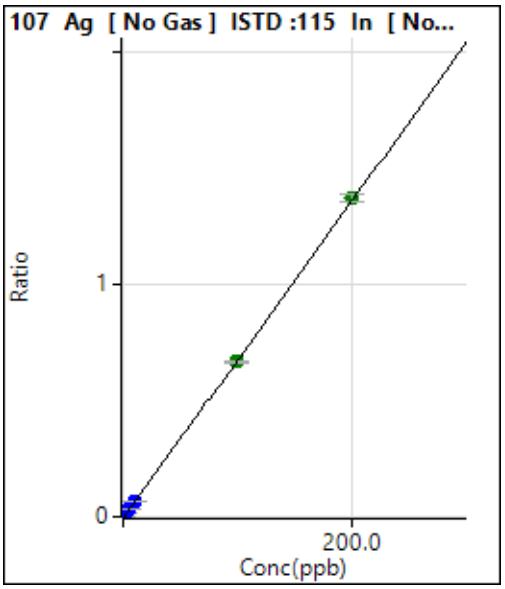
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0001	P	21.2	
2	☐	2.000	1.886	26265.88	0.0049	P	4.8	-5.7
3	☐	5.000	4.791	65532.40	0.0125	P	2.1	-4.2
4	☐	10.000	9.571	129939.16	0.0248	P	2.1	-4.3
5	☐	100.000	96.791	1260475.16	0.2503	A	2.0	-3.2
6	☐	200.000	201.632	2555596.78	0.5213	A	1.5	0.8

y = 0.0026 * x + 7.2253E-005
R = 0.9998
DL = 0.01779 ppb
BEC = 0.02795 ppb

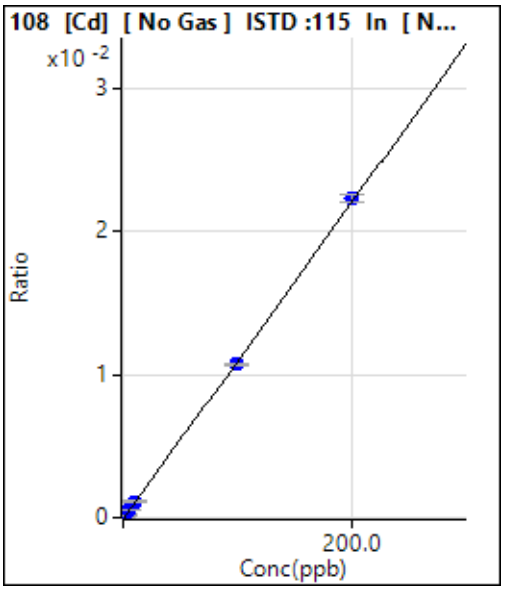
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1473.44	0.0003	P	9.2	
2	☐	2.000	1.978	73196.34	0.0138	P	2.4	-1.1
3	☐	5.000	4.937	178888.02	0.0340	P	1.2	-1.3
4	☐	10.000	9.934	356860.89	0.0681	P	1.9	-0.7
5	☐	100.000	97.700	3362962.35	0.6677	A	1.4	-2.3
6	☐	200.000	201.155	6738256.15	1.3744	A	2.2	0.6

y = 0.0068 * x + 2.7790E-004
R = 0.9999
DL = 0.01118 ppb
BEC = 0.04068 ppb

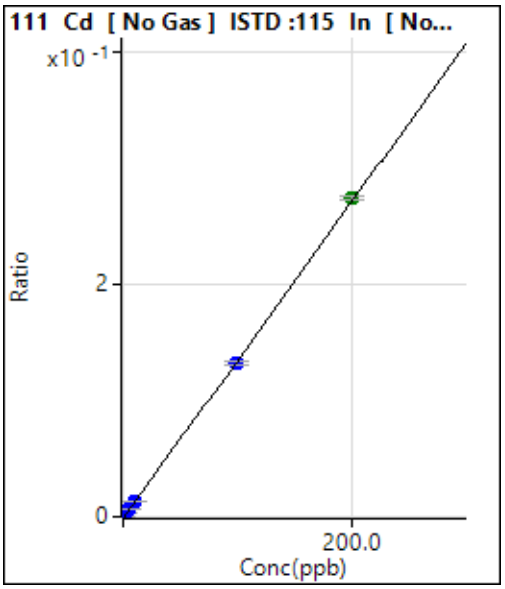
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	99.8	
2	☐	2.000	1.758	1053.40	0.0002	P	16.5	-12.1
3	☐	5.000	4.930	2893.71	0.0006	P	4.1	-1.4
4	☐	10.000	10.251	5968.10	0.0011	P	3.4	2.5
5	☐	100.000	96.634	53948.86	0.0107	P	1.3	-3.4
6	☐	200.000	201.674	109577.53	0.0224	P	1.9	0.8

y = 1.1080E-004 * x + 3.7564E-006
R = 0.9998
DL = 0.1015 ppb
BEC = 0.0339 ppb

Weight: <None>
Min Conc: <None>

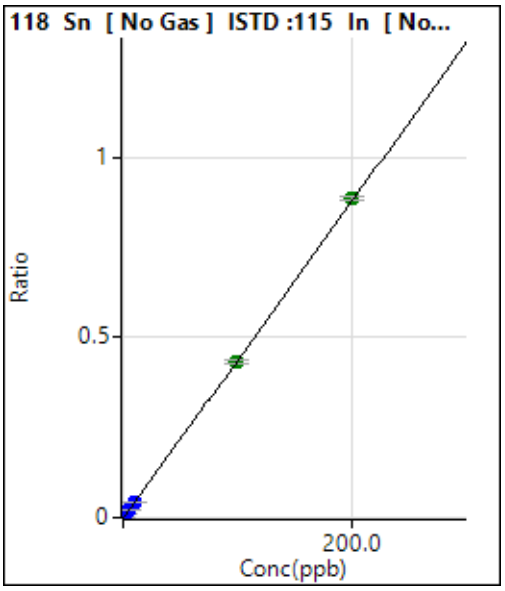


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	161.88	0.0000	P	17.1	
2	☐	2.000	1.958	14305.56	0.0027	P	3.2	-2.1
3	☐	5.000	4.876	35056.73	0.0067	P	2.6	-2.5
4	☐	10.000	9.727	69461.72	0.0133	P	1.0	-2.7
5	☐	100.000	97.128	665670.65	0.1322	P	2.1	-2.9
6	☐	200.000	201.453	1343775.42	0.2741	A	1.7	0.7

y = 0.0014 * x + 3.0559E-005
R = 0.9999
DL = 0.01152 ppb
BEC = 0.02246 ppb

Weight: <None>
Min Conc: <None>

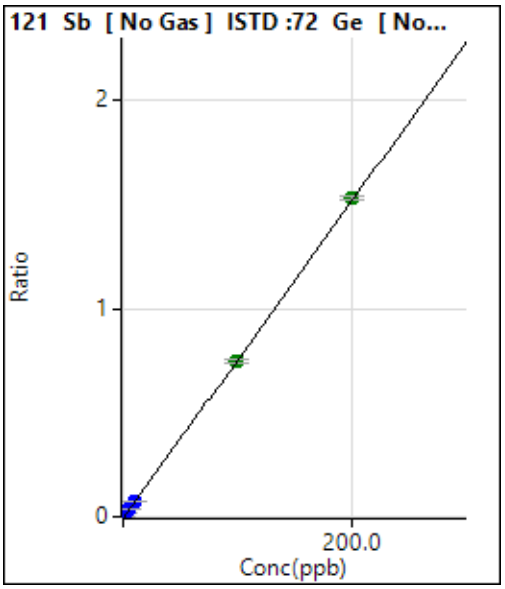
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8672.97	0.0016	P	4.3	
2	☐	2.000	1.777	50235.19	0.0095	P	1.9	-11.1
3	☐	5.000	4.844	120829.17	0.0230	P	2.4	-3.1
4	☐	10.000	9.771	233896.42	0.0447	P	1.8	-2.3
5	☐	100.000	97.909	2179718.82	0.4328	A	2.4	-2.1
6	☐	200.000	201.063	4348892.12	0.8870	A	1.5	0.5

y = 0.0044 * x + 0.0016
R = 0.9999
DL = 0.04822 ppb
BEC = 0.3715 ppb

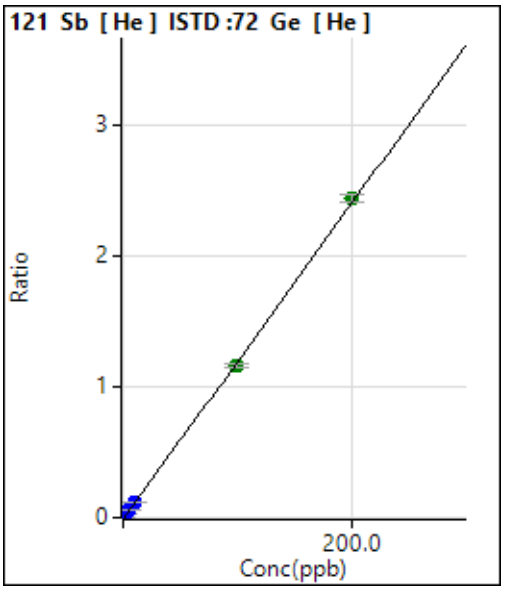
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1300.09	0.0003	P	6.4	
2	☐	2.000	1.927	63069.68	0.0150	P	2.9	-3.6
3	☐	5.000	4.830	153386.18	0.0371	P	1.8	-3.4
4	☐	10.000	9.841	309005.41	0.0753	P	2.5	-1.6
5	☐	100.000	97.922	2970035.48	0.7466	A	2.6	-2.1
6	☐	200.000	201.052	5937645.75	1.5326	A	0.9	0.5

y = 0.0076 * x + 3.1238E-004
R = 0.9999
DL = 0.007811 ppb
BEC = 0.04099 ppb

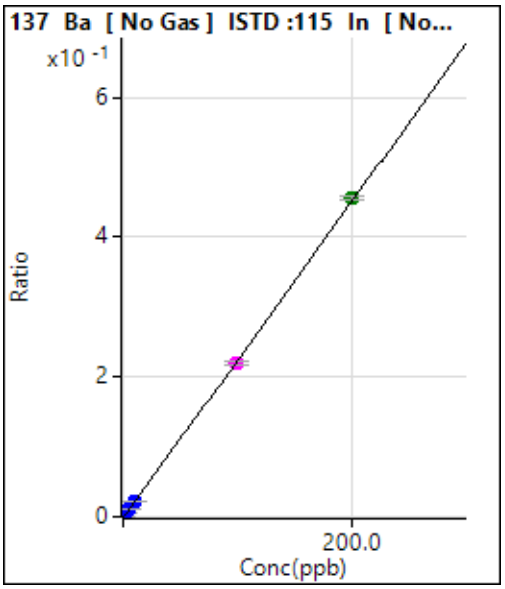
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	500.02	0.0004	P	15.2	
2	☐	2.000	1.854	27265.11	0.0228	P	2.9	-7.3
3	☐	5.000	4.709	67310.56	0.0573	P	1.9	-5.8
4	☐	10.000	9.697	136043.29	0.1176	P	2.3	-3.0
5	☐	100.000	95.928	1320040.99	1.1598	A	1.7	-4.1
6	☐	200.000	202.060	2708541.42	2.4424	A	2.6	1.0

y = 0.0121 * x + 4.2496E-004
R = 0.9997
DL = 0.016 ppb
BEC = 0.03516 ppb

Weight: <None>
Min Conc: <None>

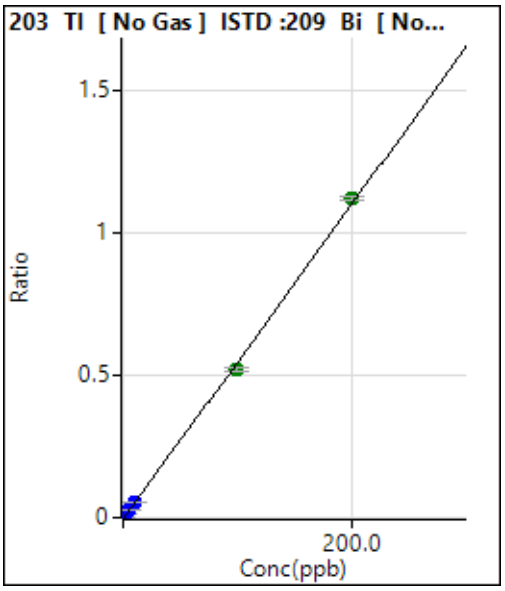


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.15	0.0003	P	10.7	
2	☐	2.000	1.879	24276.29	0.0046	P	2.6	-6.0
3	☐	5.000	4.818	59039.55	0.0112	P	4.2	-3.6
4	☐	10.000	9.605	115501.48	0.0221	P	0.7	-4.0
5	☐	100.000	97.269	1110159.10	0.2204	M	2.9	-2.7
6	☐	200.000	201.391	2235829.65	0.4560	A	1.4	0.7

y = 0.0023 * x + 3.2087E-004
R = 0.9999
DL = 0.04554 ppb
BEC = 0.1418 ppb

Weight: <None>
Min Conc: <None>

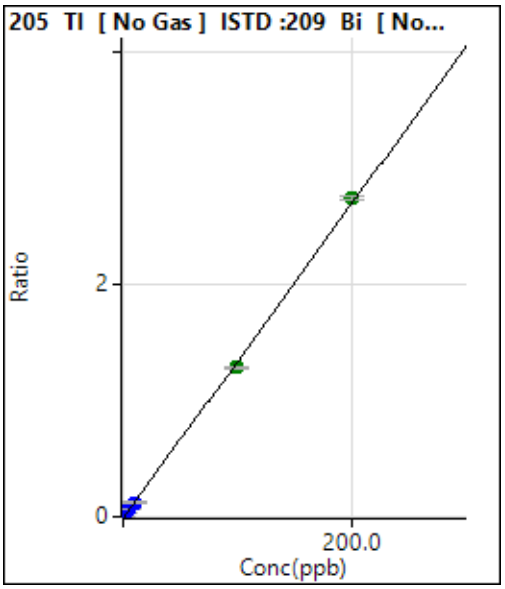
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.14	0.0003	P	7.8	
2	☐	2.000	1.878	55793.72	0.0107	P	2.8	-6.1
3	☐	5.000	4.593	135000.39	0.0257	P	2.0	-8.1
4	☐	10.000	9.304	270992.55	0.0517	P	2.8	-7.0
5	☐	100.000	94.454	2656535.90	0.5223	A	2.8	-5.5
6	☐	200.000	202.819	5571897.42	1.1211	A	0.9	1.4

y = 0.0055 * x + 3.1486E-004
R = 0.9995
DL = 0.01335 ppb
BEC = 0.05697 ppb

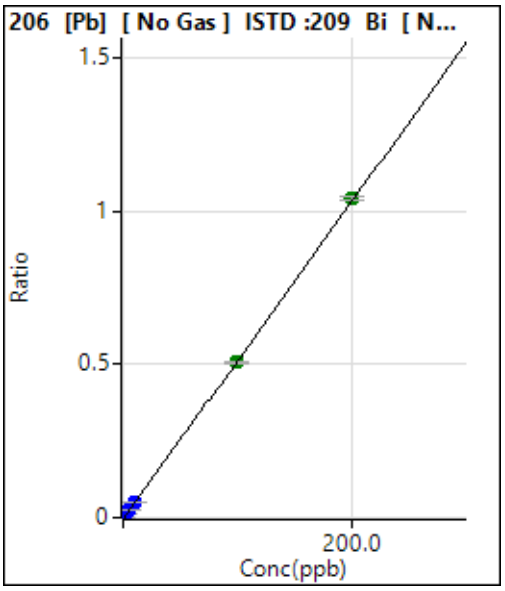
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4244.13	0.0008	P	4.2	
2	☐	2.000	1.804	131364.11	0.0252	P	1.7	-9.8
3	☐	5.000	4.409	317138.36	0.0604	P	2.2	-11.8
4	☐	10.000	9.034	643602.01	0.1229	P	2.6	-9.7
5	☐	100.000	94.683	6510474.90	1.2800	A	1.9	-5.3
6	☐	200.000	202.724	13615678.13	2.7396	A	1.2	1.4

y = 0.0135 * x + 8.0492E-004
R = 0.9995
DL = 0.007506 ppb
BEC = 0.05958 ppb

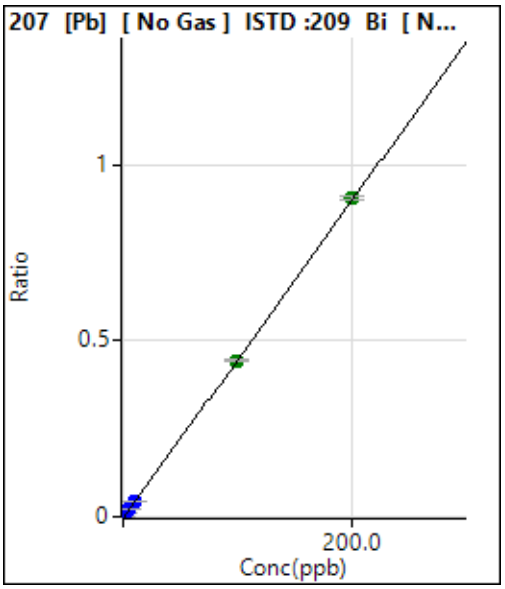
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2093.56	0.0004	P	1.4	
2	☐	2.000	1.997	56105.45	0.0108	P	3.6	-0.1
3	☐	5.000	4.917	136045.56	0.0259	P	1.4	-1.7
4	☐	10.000	9.875	270387.76	0.0516	P	1.2	-1.2
5	☐	100.000	97.799	2581850.59	0.5076	A	1.2	-2.2
6	☐	200.000	201.109	5185454.40	1.0434	A	1.1	0.6

y = 0.0052 * x + 3.9707E-004
R = 0.9999
DL = 0.003131 ppb
BEC = 0.07656 ppb

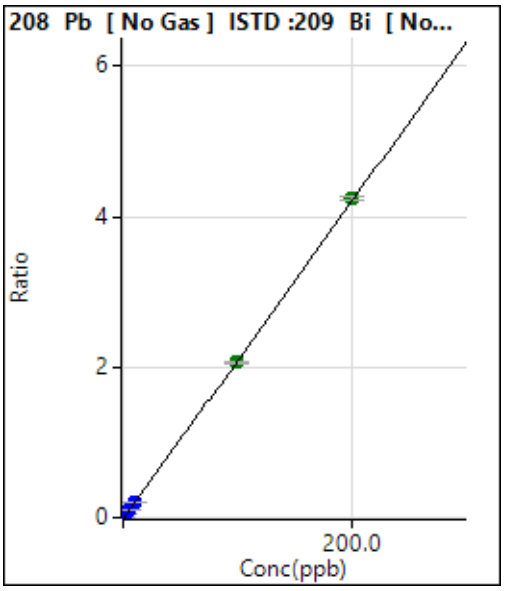
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1683.48	0.0003	P	17.7	
2	☐	2.000	1.953	47653.75	0.0091	P	2.7	-2.3
3	☐	5.000	4.892	117666.31	0.0224	P	1.5	-2.2
4	☐	10.000	9.855	234677.64	0.0448	P	1.0	-1.5
5	☐	100.000	98.236	2256621.22	0.4437	A	1.4	-1.8
6	☐	200.000	200.892	4507385.76	0.9070	A	0.7	0.4

y = 0.0045 * x + 3.1925E-004
R = 0.9999
DL = 0.03765 ppb
BEC = 0.07074 ppb

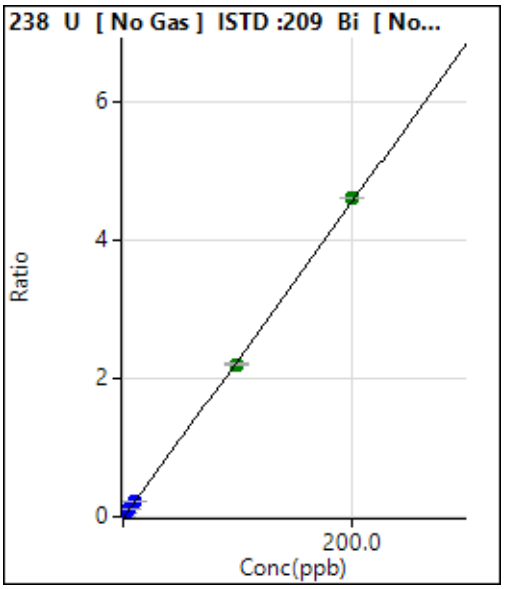
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8201.26	0.0016	P	3.9	
2	☐	2.000	1.928	220534.58	0.0423	P	2.9	-3.6
3	☐	5.000	4.791	539540.36	0.1027	P	1.4	-4.2
4	☐	10.000	9.714	1082670.58	0.2067	P	1.2	-2.9
5	☐	100.000	97.924	10524649.43	2.0692	A	1.2	-2.1
6	☐	200.000	201.058	21106062.91	4.2468	A	1.1	0.5

y = 0.0211 * x + 0.0016
R = 0.9999
DL = 0.008711 ppb
BEC = 0.07367 ppb

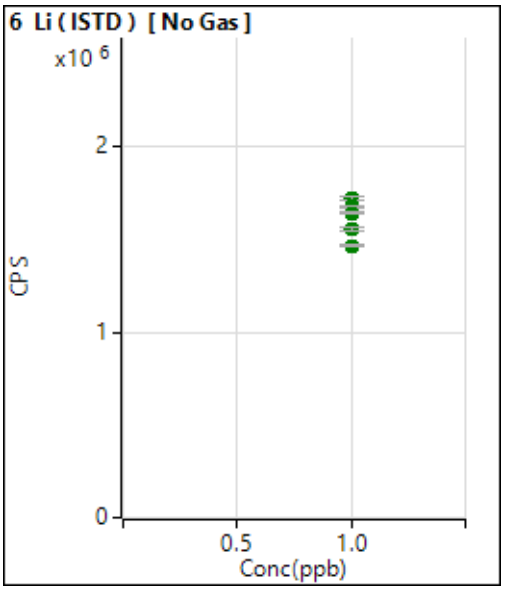
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Min Conc: <None>



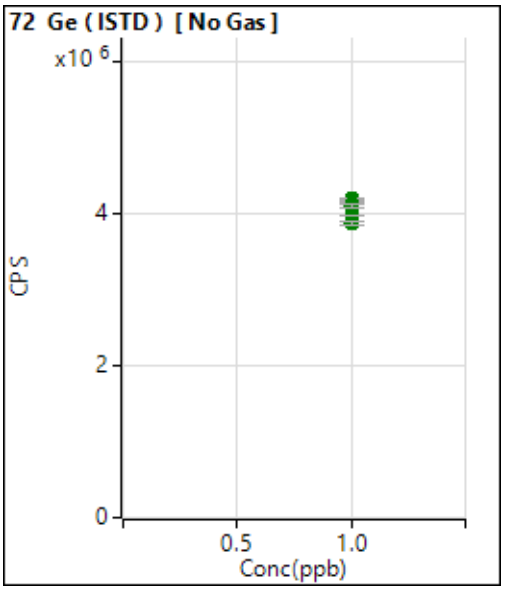
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5417.97	0.0010	P	3.9	
2	☐	2.000	1.829	223446.58	0.0428	P	0.8	-8.5
3	☐	5.000	4.528	548908.05	0.1045	P	1.6	-9.4
4	☐	10.000	9.306	1119428.45	0.2137	P	1.0	-6.9
5	☐	100.000	96.488	11219859.42	2.2059	A	1.4	-3.5
6	☐	200.000	201.804	22922825.49	4.6125	A	0.4	0.9

y = 0.0229 * x + 0.0010
R = 0.9998
DL = 0.005247 ppb
BEC = 0.04497 ppb

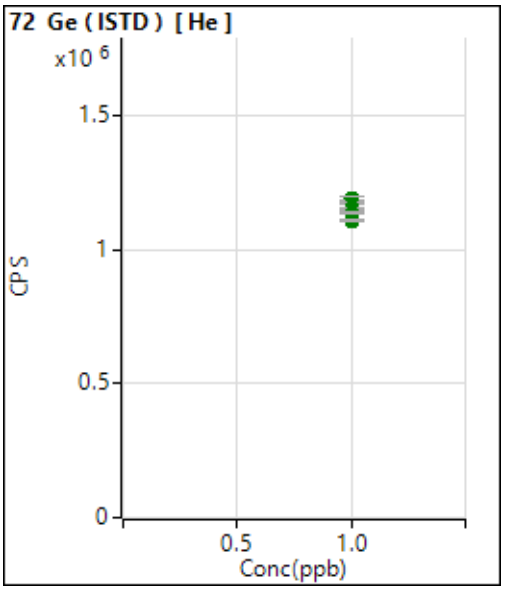
Weight: <None>
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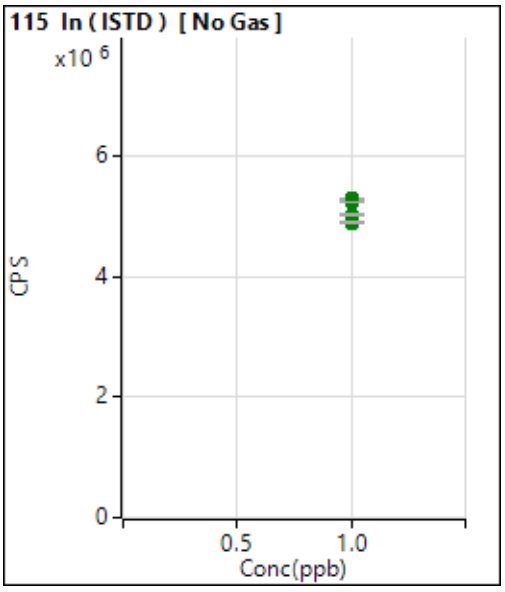
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1709896.43		A	0.1	
2	☐	1.000		1722227.11		A	0.8	
3	☐	1.000		1676112.40		A	0.7	
4	☐	1.000		1644380.63		A	0.5	
5	☐	1.000		1556073.15		A	1.2	
6	☐	1.000		1464767.87		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4162003.17		A	0.4	
2	☐	1.000		4204480.88		A	0.1	
3	☐	1.000		4131653.38		A	0.1	
4	☐	1.000		4103178.79		A	0.7	
5	☐	1.000		3977893.69		A	0.2	
6	☐	1.000		3874294.11		A	0.8	

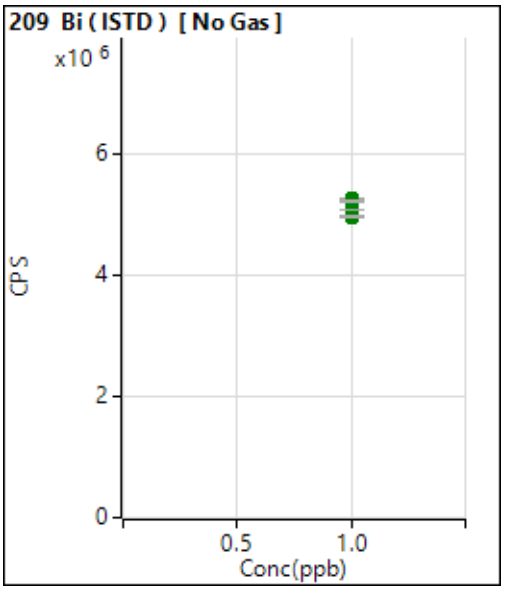


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177618.06		A	1.0	
2	☐	1.000		1193812.90		A	1.4	
3	☐	1.000		1174066.93		A	0.9	
4	☐	1.000		1156621.96		A	0.7	
5	☐	1.000		1138105.48		A	0.7	
6	☐	1.000		1109115.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5301074.33		A	0.7	
2	☐	1.000		5309002.67		A	0.4	
3	☐	1.000		5261197.90		A	0.4	
4	☐	1.000		5237070.79		A	0.0	
5	☐	1.000		5036649.90		A	0.1	
6	☐	1.000		4903058.98		A	0.8	

Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5272521.38		A	0.1	
2	☐	1.000		5216993.47		A	0.7	
3	☐	1.000		5253118.88		A	0.0	
4	☐	1.000		5239227.94		A	0.6	
5	☐	1.000		5086380.97		A	0.1	
6	☐	1.000		4969671.91		A	0.5	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:33:10-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	95109	0.00
Be	9	1	No Gas	370	1.59
V	51	2	He	5107	0.02
Cr	52	2	He	12653	0.03
Fe	56	2	He	43279	0.00
Se	78	2	He	159	5.29
As	75	2	He	357	1.83
Ca	44	2	He	1370	1.12
Na	23	2	He	288606	0.00
Mg	24	2	He	2800	0.09
K	39	2	He	119098	0.00
Mn	55	2	He	1773	0.26
Co	59	2	He	1033	1.13
Ni	60	2	He	1370	0.19
Cu	63	2	He	1290	1.34
Zn	66	2	He	1547	0.42
Al	27	2	He	2067	0.14
B	11	1	No Gas	19585	0.01
Al	27	1	No Gas	79772	0.00
Si	28	1	No Gas	438319	0.00
Ag	107	1	No Gas	1473	0.65
Cd	111	1	No Gas	162	10.16
Sr	88	1	No Gas	4904	0.16
Mo	95	1	No Gas	383	5.71
Sn	118	1	No Gas	8673	0.06
Sb	121	1	No Gas	1300	0.48
Ba	137	1	No Gas	1700	0.59
Tl	205	1	No Gas	4244	0.10
Tl	203	1	No Gas	1660	0.47
Pb	208	1	No Gas	8201	0.05
U	238	1	No Gas	5418	0.07
Ca	43	2	He	53	81.19
Sb	121	2	He	500	2.88
Ti	47	2	He	27	162.38
Cu	63	1	No Gas	7609	0.06

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1709896	0.13
Ge	72	2	He	1177618	0.96
Ge	72	1	No Gas	4162003	0.40
In	115	1	No Gas	5301074	0.66

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	5272521	0.12

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:35:53-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	13333	0.02
V	51	2	He	23910	0.00
Cr	52	2	He	31466	0.00
Fe	56	2	He	2218555	0.00
Se	78	2	He	525	1.23
As	75	2	He	3928	0.12
Ca	44	2	He	15048	0.01
Na	23	2	He	622282	0.00
Mg	24	2	He	218868	0.00
K	39	2	He	372136	0.00
Mn	55	2	He	19250	0.01
Co	59	2	He	37254	0.01
Ni	60	2	He	10908	0.06
Cu	63	2	He	26112	0.01
Zn	66	2	He	7239	0.01
Al	27	2	He	3137	0.27
B	11	1	No Gas	53786	0.00
Al	27	1	No Gas	123569	0.00
Si	28	1	No Gas	568752	0.00
Ag	107	1	No Gas	73196	0.00
Cd	111	1	No Gas	14306	0.02
Sr	88	1	No Gas	137527	0.00
Mo	95	1	No Gas	26266	0.02
Sn	118	1	No Gas	50235	0.00
Sb	121	1	No Gas	63070	0.00
Ba	137	1	No Gas	24276	0.01
Tl	205	1	No Gas	131364	0.00
Tl	203	1	No Gas	55794	0.01
Pb	208	1	No Gas	220535	0.00
U	238	1	No Gas	223447	0.00
Ca	43	2	He	957	0.78
Sb	121	2	He	27265	0.01
Cu	63	1	No Gas	60252	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1722227	0.78	1709896	100.72	70	120	
Ge	72	2	He	1193813	1.42	1177618	101.38	70	120	
Ge	72	1	No Gas	4204481	0.06	4162003	101.02	70	120	

Calibration Standard Report

In	115	1	No Gas	5309003	0.40	5301074	100.15	70	120	
Bi	209	1	No Gas	5216993	0.65	5272521	98.95	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:38:34-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	31983	0.01
V	51	2	He	54555	0.01
Cr	52	2	He	70171	0.00
Fe	56	2	He	5508641	0.00
Se	78	2	He	981	0.44
As	75	2	He	9565	0.05
Ca	44	2	He	33828	0.01
Na	23	2	He	1151604	0.00
Mg	24	2	He	539864	0.00
K	39	2	He	748984	0.00
Mn	55	2	He	47141	0.00
Co	59	2	He	91278	0.00
Ni	60	2	He	24392	0.01
Cu	63	2	He	63848	0.00
Zn	66	2	He	13300	0.02
Al	27	2	He	5845	0.01
B	11	1	No Gas	106566	0.00
Al	27	1	No Gas	232171	0.00
Si	28	1	No Gas	759669	0.00
Ag	107	1	No Gas	178888	0.00
Cd	111	1	No Gas	35057	0.01
Sr	88	1	No Gas	337079	0.00
Mo	95	1	No Gas	65532	0.00
Sn	118	1	No Gas	120829	0.00
Sb	121	1	No Gas	153386	0.00
Ba	137	1	No Gas	59040	0.01
Tl	205	1	No Gas	317138	0.00
Tl	203	1	No Gas	135000	0.00
Pb	208	1	No Gas	539540	0.00
U	238	1	No Gas	548908	0.00
Ca	43	2	He	1970	0.12
Sb	121	2	He	67311	0.00
Cu	63	1	No Gas	137859	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1676112	0.69	1709896	98.02	70	120	
Ge	72	2	He	1174067	0.85	1177618	99.70	70	120	
Ge	72	1	No Gas	4131653	0.14	4162003	99.27	70	120	

Calibration Standard Report

In	115	1	No Gas	5261198	0.45	5301074	99.25	70	120	
Bi	209	1	No Gas	5253119	0.02	5272521	99.63	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:41:15-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	63340	0.00
V	51	2	He	105328	0.00
Cr	52	2	He	129189	0.00
Fe	56	2	He	11078721	0.00
Se	78	2	He	1851	0.25
As	75	2	He	18745	0.01
Ca	44	2	He	67564	0.00
Na	23	2	He	2041607	0.00
Mg	24	2	He	1092520	0.00
K	39	2	He	1400575	0.00
Mn	55	2	He	92012	0.00
Co	59	2	He	184354	0.00
Ni	60	2	He	49315	0.01
Cu	63	2	He	126313	0.00
Zn	66	2	He	25053	0.01
Al	27	2	He	8816	0.06
B	11	1	No Gas	198327	0.00
Al	27	1	No Gas	358455	0.00
Si	28	1	No Gas	1090528	0.00
Ag	107	1	No Gas	356861	0.00
Cd	111	1	No Gas	69462	0.00
Sr	88	1	No Gas	674026	0.00
Mo	95	1	No Gas	129939	0.00
Sn	118	1	No Gas	233896	0.00
Sb	121	1	No Gas	309005	0.00
Ba	137	1	No Gas	115501	0.00
Tl	205	1	No Gas	643602	0.00
Tl	203	1	No Gas	270993	0.00
Pb	208	1	No Gas	1082671	0.00
U	238	1	No Gas	1119428	0.00
Ca	43	2	He	4187	0.12
Sb	121	2	He	136043	0.00
Cu	63	1	No Gas	267931	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1644381	0.55	1709896	96.17	70	120	
Ge	72	2	He	1156622	0.70	1177618	98.22	70	120	
Ge	72	1	No Gas	4103179	0.74	4162003	98.59	70	120	

Calibration Standard Report

In	115	1	No Gas	5237071	0.05	5301074	98.79	70	120	
Bi	209	1	No Gas	5239228	0.62	5272521	99.37	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:43:54-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	581352	0.00
V	51	2	He	908004	0.00
Cr	52	2	He	1037560	0.00
Fe	56	2	He	97268009	0.00
Se	78	2	He	15265	0.01
As	75	2	He	163974	0.00
Ca	44	2	He	588568	0.00
Na	23	2	He	15964244	0.00
Mg	24	2	He	9738579	0.00
K	39	2	He	11552115	0.00
Mn	55	2	He	794929	0.00
Co	59	2	He	1592098	0.00
Ni	60	2	He	412945	0.00
Cu	63	2	He	1094631	0.00
Zn	66	2	He	207911	0.00
Al	27	2	He	64789	0.00
B	11	1	No Gas	1666849	0.00
Al	27	1	No Gas	2575882	0.00
Si	28	1	No Gas	6451698	0.00
Ag	107	1	No Gas	3227566	0.00
Cd	111	1	No Gas	644108	0.00
Sr	88	1	No Gas	6284169	0.00
Mo	95	1	No Gas	1199264	0.00
Sn	118	1	No Gas	2077682	0.00
Sb	121	1	No Gas	2843598	0.00
Ba	137	1	No Gas	1061875	0.00
Tl	205	1	No Gas	6160861	0.00
Tl	203	1	No Gas	2514077	0.00
Pb	208	1	No Gas	10140020	0.00
U	238	1	No Gas	10774259	0.00
Ca	43	2	He	34901	0.01
Sb	121	2	He	1214677	0.00
Cu	63	1	No Gas	2338535	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1554162	0.75	1709896	90.89	70	120	
Ge	72	2	He	1137003	0.71	1177618	96.55	70	120	
Ge	72	1	No Gas	3991943	0.75	4162003	95.91	70	120	

Calibration Standard Report

In	115	1	No Gas	5033692	0.53	5301074	94.96	70	120	
Bi	209	1	No Gas	5121556	0.51	5272521	97.14	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:46:33-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1228024	0.00
V	51	2	He	2015090	0.00
Cr	52	2	He	2284257	0.00
Fe	56	2	He	216728677	0.00
Se	78	2	He	33953	0.01
As	75	2	He	363060	0.00
Ca	44	2	He	1324475	0.00
Na	23	2	He	35044964	0.00
Mg	24	2	He	21464943	0.00
K	39	2	He	25347164	0.00
Mn	55	2	He	1784314	0.00
Co	59	2	He	3527645	0.00
Ni	60	2	He	904124	0.00
Cu	63	2	He	2413664	0.00
Zn	66	2	He	453103	0.00
Al	27	2	He	140455	0.00
B	11	1	No Gas	3510760	0.00
Al	27	1	No Gas	5281948	0.00
Si	28	1	No Gas	12953964	0.00
Ag	107	1	No Gas	6738256	0.00
Cd	111	1	No Gas	1343775	0.00
Sr	88	1	No Gas	13219902	0.00
Mo	95	1	No Gas	2555597	0.00
Sn	118	1	No Gas	4348892	0.00
Sb	121	1	No Gas	5937646	0.00
Ba	137	1	No Gas	2235830	0.00
Tl	205	1	No Gas	13615678	0.00
Tl	203	1	No Gas	5571897	0.00
Pb	208	1	No Gas	21106063	0.00
U	238	1	No Gas	22922825	0.00
Ca	43	2	He	76872	0.00
Sb	121	2	He	2708541	0.00
Cu	63	1	No Gas	4848459	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1464768	0.54	1709896	85.66	70	120	
Ge	72	2	He	1109115	0.93	1177618	94.18	70	120	
Ge	72	1	No Gas	3874294	0.76	4162003	93.09	70	120	

Calibration Standard Report

In	115	1	No Gas	4903059	0.84	5301074	92.49	70	120	
Bi	209	1	No Gas	4969672	0.50	5272521	94.26	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:54:32-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	612588	0.00
V	51	2	He	984012	0.00
Cr	52	2	He	1126568	0.00
Fe	56	2	He	106286848	0.00
Se	78	2	He	16651	0.01
As	75	2	He	179058	0.00
Ca	44	2	He	643072	0.00
Na	23	2	He	17407033	0.00
Mg	24	2	He	10626664	0.00
K	39	2	He	12591436	0.00
Mn	55	2	He	867052	0.00
Co	59	2	He	1739956	0.00
Ni	60	2	He	449401	0.00
Cu	63	2	He	1193031	0.00
Zn	66	2	He	224988	0.00
Al	27	2	He	70232	0.00
B	11	1	No Gas	1751959	0.00
Al	27	1	No Gas	2713648	0.00
Si	28	1	No Gas	6734428	0.00
Ag	107	1	No Gas	3362962	0.00
Cd	111	1	No Gas	665671	0.00
Sr	88	1	No Gas	6609469	0.00
Mo	95	1	No Gas	1260475	0.00
Sn	118	1	No Gas	2179719	0.00
Sb	121	1	No Gas	2970035	0.00
Ba	137	1	No Gas	1110159	0.00
Tl	205	1	No Gas	6510475	0.00
Tl	203	1	No Gas	2656536	0.00
Pb	208	1	No Gas	10524649	0.00
U	238	1	No Gas	11219859	0.00
Ca	43	2	He	37855	0.01
Sb	121	2	He	1320041	0.00
Cu	63	1	No Gas	2461636	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1556073	1.17	1709896	91.00	70	120	
Ge	72	2	He	1138105	0.66	1177618	96.64	70	120	
Ge	72	1	No Gas	3977894	0.15	4162003	95.58	70	120	

Calibration Standard Report

In	115	1	No Gas	5036650	0.07	5301074	95.01	70	120	
Bi	209	1	No Gas	5086381	0.08	5272521	96.47	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	019_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:01:54-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	95.871	1.776	2477598	2.06	100	95.9	90	110	
Be	9	1	No Gas	95.306	1.015	613254	1.35	100	95.3	90	110	
V	51	2	He	98.092	0.893	1017721	1.43	100	98.1	90	110	
Cr	52	2	He	98.598	1.093	1164623	1.58	100	98.6	90	110	
Fe	56	2	He	9861.289	1.490	109936638	2.03	10000	98.6	90	110	
Se	78	2	He	97.877	1.349	17155	1.85	100	97.9	90	110	
As	75	2	He	98.763	0.994	184752	1.52	100	98.8	90	110	
Ca	44	2	He	9802.618	0.378	666948	0.92	10000	98.0	90	110	
Na	23	2	He	9777.302	0.907	17781675	1.44	10000	97.8	90	110	
Mg	24	2	He	9883.176	1.216	10931537	1.76	10000	98.8	90	110	
K	39	2	He	9921.599	0.961	13012715	1.50	10000	99.2	90	110	
Mn	55	2	He	97.656	0.796	895301	1.34	100	97.7	90	110	
Co	59	2	He	98.666	1.494	1792522	2.03	100	98.7	90	110	
Ni	60	2	He	99.460	0.823	464241	1.36	100	99.5	90	110	
Cu	63	2	He	99.362	0.996	1235786	1.53	100	99.4	90	110	
Zn	66	2	He	99.966	0.642	234115	1.15	100	100.0	90	110	
Al	27	2	He	101.737	2.568	74554	2.95	100	101.7	90	110	
B	11	1	No Gas	469.956	0.909	1736412	1.24	500	94.0	90	110	
Al	27	1	No Gas	99.504	2.059	2749289	1.19	100	99.5	90	110	
Si	28	1	No Gas	492.953	2.482	6792772	1.49	500	98.6	90	110	
Ag	107	1	No Gas	99.433	1.708	3431750	1.50	100	99.4	90	110	
Cd	111	1	No Gas	97.871	1.440	672557	1.14	100	97.9	90	110	
Sr	88	1	No Gas	97.963	1.530	6635403	1.24	100	98.0	90	110	
Mo	95	1	No Gas	96.685	1.412	1262472	1.16	100	96.7	90	110	
Sn	118	1	No Gas	98.713	1.895	2203408	1.52	100	98.7	90	110	
Sb	121	1	No Gas	98.604	2.907	3012111	2.12	100	98.6	90	110	
Ba	137	1	No Gas	97.648	2.889	1117428	2.50	100	97.6	90	110	
Tl	205	1	No Gas	97.837	2.122	6681790	2.71	100	97.8	90	110	
Tl	203	1	No Gas	97.160	2.663	2714235	3.28	100	97.2	90	110	
Pb	208	1	No Gas	98.592	1.218	10524480	1.83	100	98.6	90	110	
U	238	1	No Gas	95.856	1.548	11070984	2.15	100	95.9	90	110	
Ca	43	2	He	9910.856	1.235	39239	1.52	10000	99.1	90	110	
Sb	121	2	He	98.221	0.539	1366677	1.08	100	98.2	90	110	
Ti	47	2	He	100.656	2.412	39891	2.74	100	100.7	90	110	
Cu	63	1	No Gas	99.190	2.506	2484232	1.66	100	99.2	90	110	
Se	82	1	No Gas	97.658	1.291	41628	0.52	100	97.7	90	110	
Zr	90	1	No Gas	88.101	1.460	3718324	1.12	100	88.1	90	110	ICV Main CR1 Failed
Zr	90	2	He	88.507	1.126	1519598	1.67	100	88.5	90	1100	ICV Main CR1 Failed

QC ISTD Table

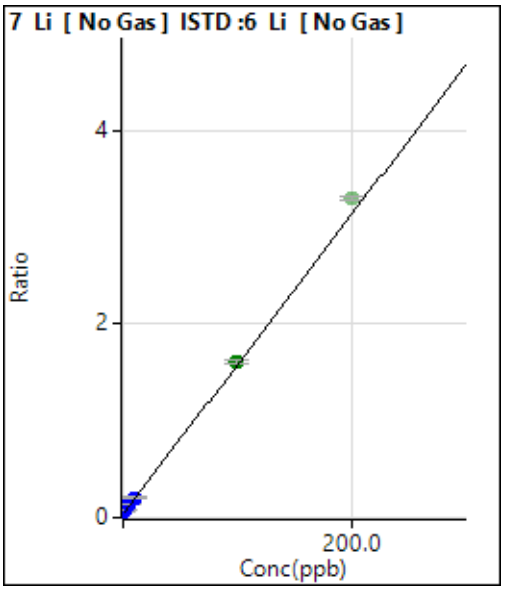
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1553694	0.38	1709896	90.86	70	120	
Ge	72	2	He	1150873	0.55	1177618	97.73	70	120	
Ge	72	1	No Gas	4006990	0.84	4162003	96.28	70	120	
In	115	1	No Gas	5050272	0.39	5301074	95.27	70	120	
Bi	209	1	No Gas	5051591	0.62	5272521	95.81	70	120	

Calibration for 019_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/25/2024 10:33:10 AM
2	011CALS.d	2/10/200	6/25/2024 10:35:53 AM
3	012CALS.d	5/25/500	6/25/2024 10:38:34 AM
4	013CALS.d	10/50/100	6/25/2024 10:41:15 AM
5	017CALS.d	100/500/10K	6/25/2024 10:54:32 AM
6	015CALS.d	200/1000/20K	6/25/2024 10:46:33 AM

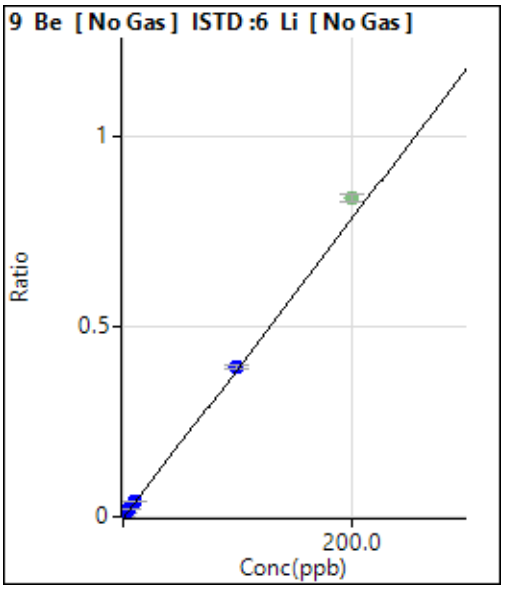
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95109.43	0.0556	P	0.2	
2	☐	2.000	1.920	146884.63	0.0853	P	1.6	-4.0
3	☐	5.000	4.841	218591.44	0.1304	P	1.3	-3.2
4	☐	10.000	9.815	340796.34	0.2073	P	1.2	-1.9
5	☐	100.000	100.028	2490753.19	1.6010	A	2.6	0.0
6	☑	200.000		4828676.80	3.2967	A	1.3	

y = 0.0154 * x + 0.0556
R = 1.0000
DL = 0.02597 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

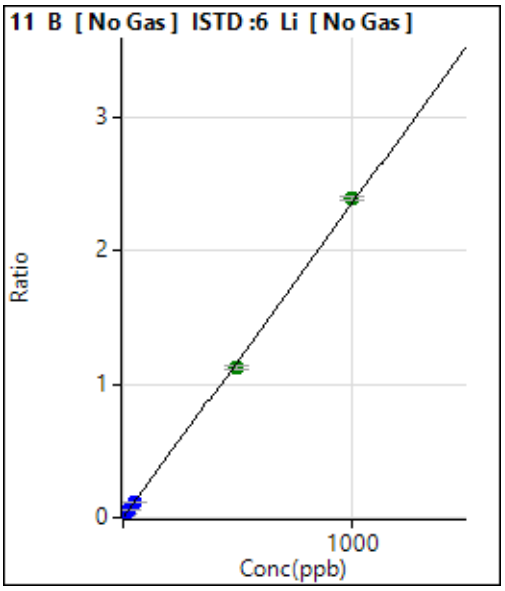


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0002	P	5.8	
2	☐	2.000	1.913	13332.98	0.0077	P	2.5	-4.3
3	☐	5.000	4.795	31982.57	0.0191	P	2.3	-4.1
4	☐	10.000	9.736	63339.98	0.0385	P	1.5	-2.6
5	☐	100.000	100.038	612588.03	0.3938	P	2.9	0.0
6	☑	200.000		1228024.38	0.8384	A	2.0	

y = 0.0039 * x + 2.1639E-004
R = 1.0000
DL = 0.009619 ppb
BEC = 0.055 ppb

Weight: <None>
Min Conc: <None>

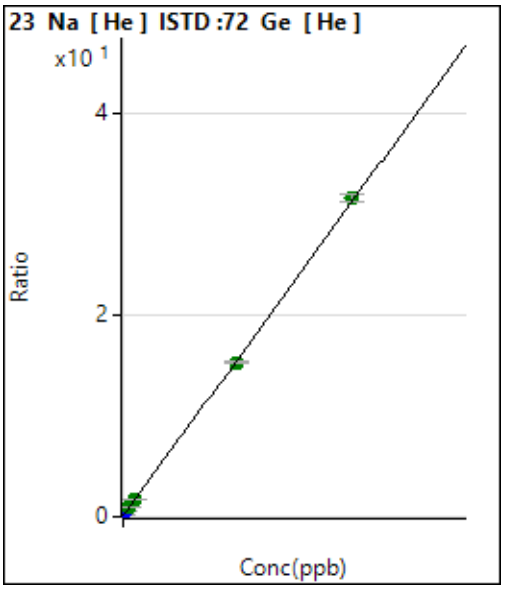
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19585.24	0.0115	P	1.0	
2	☐	10.000	8.404	53786.34	0.0312	P	2.6	-16.0
3	☐	25.000	22.147	106565.72	0.0636	P	0.9	-11.4
4	☐	50.000	46.381	198326.89	0.1206	P	2.3	-7.2
5	☐	500.000	473.544	1751959.19	1.1260	A	1.6	-5.3
6	☐	1000.000	1013.496	3510760.36	2.3969	A	1.3	1.3

y = 0.0024 * x + 0.0115
R = 0.9995
DL = 0.1393 ppb
BEC = 4.866 ppb

Weight: <None>
Min Conc: <None>

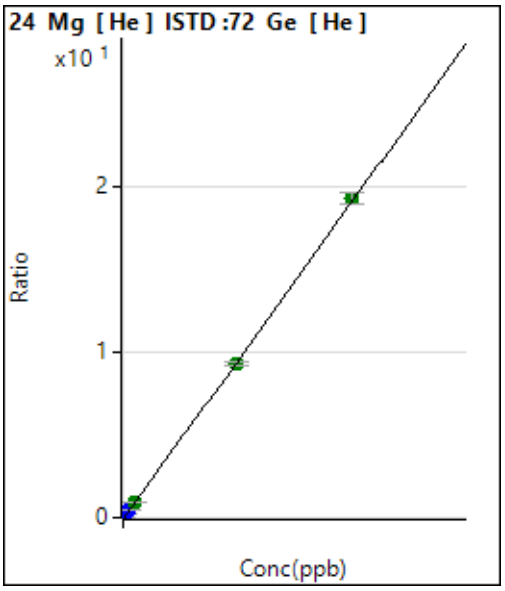


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	288606.42	0.2451	P	1.4	
2	☐	200.000	177.589	622281.82	0.5213	P	1.0	-11.2
3	☐	500.000	473.179	1151604.43	0.9810	A	1.8	-5.4
4	☐	1000.000	977.456	2041607.21	1.7652	A	1.2	-2.3
5	☐	10000.00	9676.744	17407033.07	15.2937	A	1.6	-3.2
6	☐	20000.00	20163.65	3504496448	31.6022	A	2.8	0.8

y = 0.0016 * x + 0.2451
R = 0.9998
DL = 6.411 ppb
BEC = 157.6 ppb

Weight: <None>
Min Conc: <None>

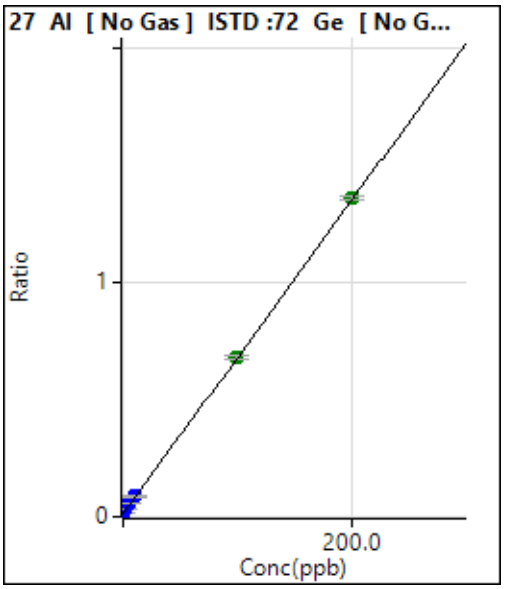
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2800.34	0.0024	P	2.9	
2	☐	200.000	188.332	218868.20	0.1833	P	2.1	-5.8
3	☐	500.000	476.135	539864.42	0.4598	P	1.8	-4.8
4	☐	1000.000	980.631	1092519.88	0.9446	A	1.5	-1.9
5	☐	10000.00	9714.978	10626664.43	9.3364	A	1.8	-2.9
6	☐	20000.00	20144.19	21464943.01	19.3567	A	3.2	0.7

y = 9.6079E-004 * x + 0.0024
R = 0.9999
DL = 0.2145 ppb
BEC = 2.475 ppb

Weight: <None>
Min Conc: <None>

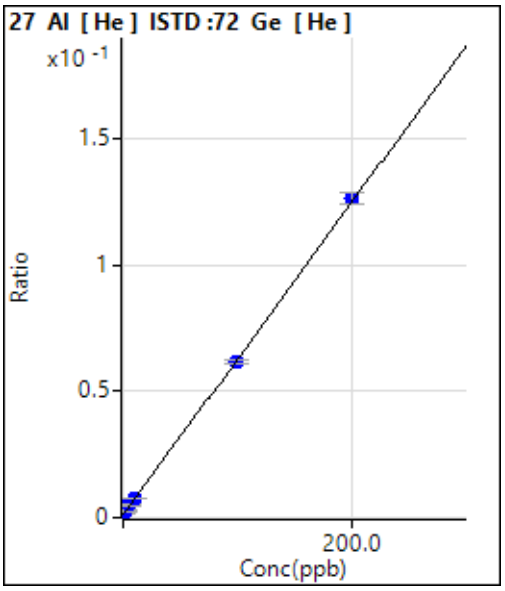


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79772.13	0.0192	P	2.2	
2	☐	2.000	1.525	123569.26	0.0294	P	2.4	-23.8
3	☐	5.000	5.524	232171.49	0.0562	P	7.8	10.5
4	☐	10.000	10.174	358454.78	0.0874	P	2.6	1.7
5	☐	100.000	98.905	2713647.56	0.6822	A	1.7	-1.1
6	☐	200.000	200.531	5281947.84	1.3634	A	1.7	0.3

y = 0.0067 * x + 0.0192
R = 1.0000
DL = 0.1901 ppb
BEC = 2.859 ppb

Weight: <None>
Min Conc: <None>

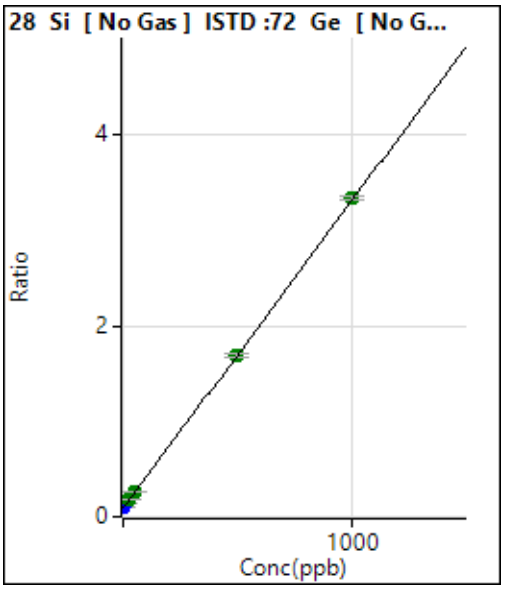
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2066.86	0.0018	P	3.4	
2	☐	2.000	1.406	3137.07	0.0026	P	7.0	-29.7
3	☐	5.000	5.203	5844.66	0.0050	P	1.6	4.1
4	☐	10.000	9.473	8816.28	0.0076	P	5.9	-5.3
5	☐	100.000	96.780	70231.85	0.0617	P	3.0	-3.2
6	☐	200.000	201.637	140454.75	0.1267	P	3.5	0.8

y = 6.1944E-004 * x + 0.0018
R = 0.9998
DL = 0.2864 ppb
BEC = 2.834 ppb

Weight: <None>
Min Conc: <None>

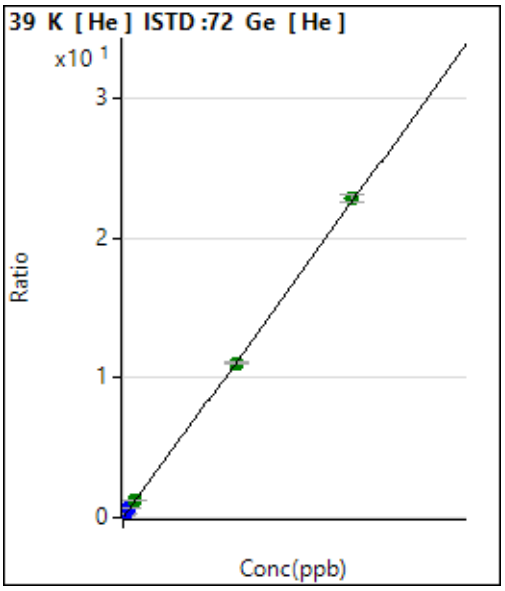


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	438318.65	0.1053	P	0.4	
2	☐	10.000	9.287	568752.14	0.1353	P	0.2	-7.1
3	☐	25.000	24.351	759668.97	0.1839	A	0.1	-2.6
4	☐	50.000	49.749	1090527.61	0.2658	A	1.3	-0.5
5	☐	500.000	492.180	6734428.23	1.6930	A	1.8	-1.6
6	☐	1000.000	1003.946	12953963.98	3.3438	A	1.5	0.4

y = 0.0032 * x + 0.1053
R = 1.0000
DL = 0.4316 ppb
BEC = 32.65 ppb

Weight: <None>
Min Conc: <None>

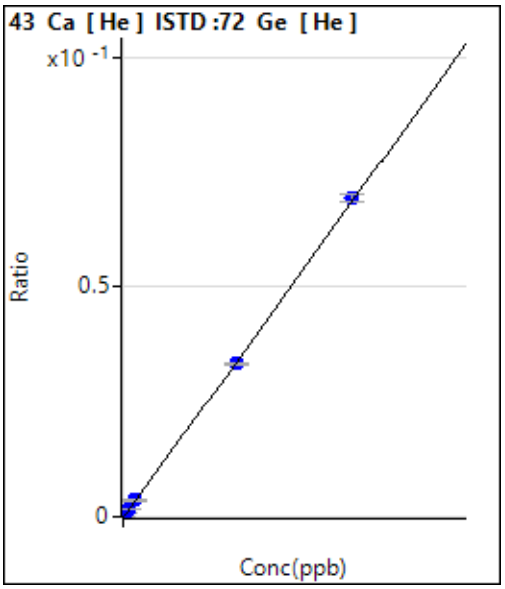
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	119097.76	0.1011	P	0.3	
2	☐	200.000	186.455	372135.50	0.3117	P	0.3	-6.8
3	☐	500.000	475.349	748983.87	0.6380	P	1.9	-4.9
4	☐	1000.000	982.636	1400574.72	1.2109	A	1.3	-1.7
5	☐	10000.00	9705.924	12591435.65	11.0629	A	1.7	-2.9
6	☐	20000.00	20148.65	25347163.79	22.8567	A	2.3	0.7

y = 0.0011 * x + 0.1011
R = 0.9999
DL = 0.6747 ppb
BEC = 89.55 ppb

Weight: <None>
Min Conc: <None>

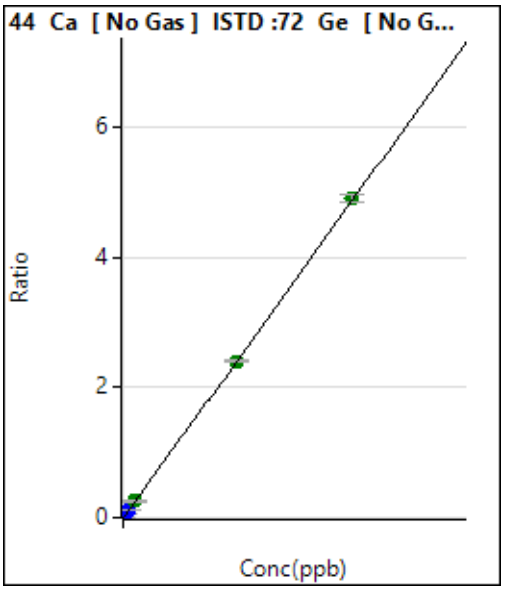


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	44.0	
2	☐	200.000	220.012	956.72	0.0008	P	6.9	10.0
3	☐	500.000	475.202	1970.17	0.0017	P	1.5	-5.0
4	☐	1000.000	1040.743	4187.37	0.0036	P	5.6	4.1
5	☐	10000.00	9668.254	37855.14	0.0333	P	1.7	-3.3
6	☐	20000.00	20164.25	76871.75	0.0693	P	2.5	0.8

y = 3.4355E-006 * x + 4.5378E-005
R = 0.9998
DL = 17.45 ppb
BEC = 13.21 ppb

Weight: <None>
Min Conc: <None>

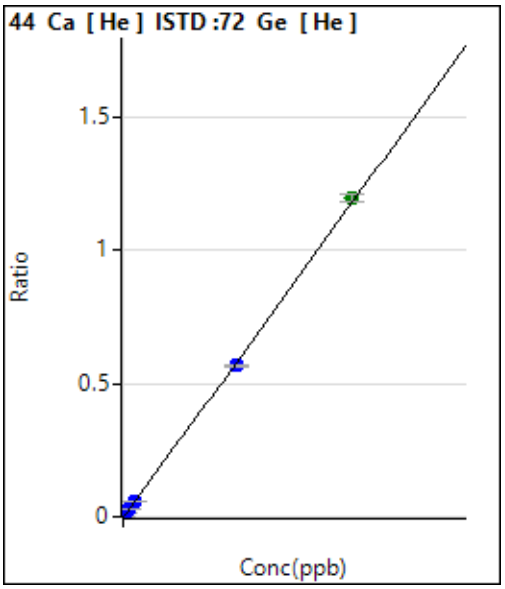
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54075.33	0.0130	P	1.7	
2	☐	200.000	198.146	257829.67	0.0613	P	1.6	-0.9
3	☐	500.000	486.430	543875.83	0.1316	P	2.3	-2.7
4	☐	1000.000	981.332	1035362.72	0.2524	A	1.5	-1.9
5	☐	10000.00	9825.374	9584837.57	2.4095	A	2.1	-1.7
6	☐	20000.00	20088.60	19032093.05	4.9128	A	2.3	0.4

y = 2.4391E-004 * x + 0.0130
R = 0.9999
DL = 2.69 ppb
BEC = 53.27 ppb

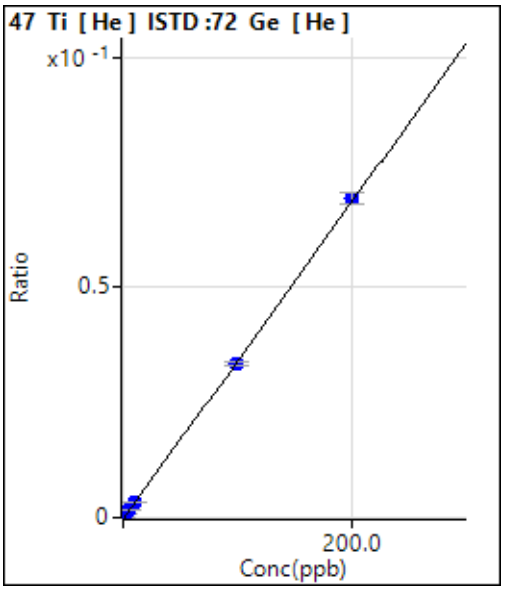
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	15.2	
2	☐	200.000	193.959	15048.30	0.0126	P	2.3	-3.0
3	☐	500.000	468.624	33828.14	0.0288	P	1.5	-6.3
4	☐	1000.000	970.349	67563.50	0.0584	P	2.2	-3.0
5	☐	10000.00	9557.200	643072.29	0.5650	P	1.4	-4.4
6	☐	20000.00	20223.72	1324475.06	1.1943	A	2.6	1.1

y = 5.8999E-005 * x + 0.0012
R = 0.9997
DL = 9 ppb
BEC = 19.72 ppb

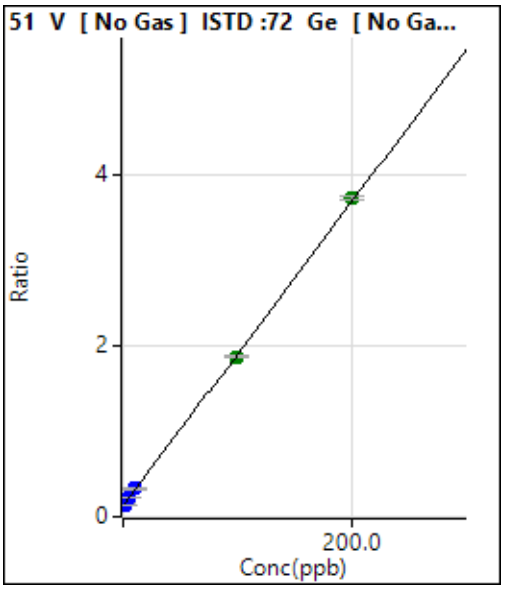
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	44.0	
2	☐	2.000	1.824	776.70	0.0007	P	5.7	-8.8
3	☐	5.000	4.469	1833.49	0.0016	P	12.4	-10.6
4	☐	10.000	9.439	3783.92	0.0033	P	4.4	-5.6
5	☐	100.000	97.296	38132.74	0.0335	P	2.0	-2.7
6	☐	200.000	201.395	76872.09	0.0693	P	3.7	0.7

y = 3.4411E-004 * x + 2.2689E-005
R = 0.9999
DL = 0.08712 ppb
BEC = 0.06593 ppb

Weight: <None>
Min Conc: <None>

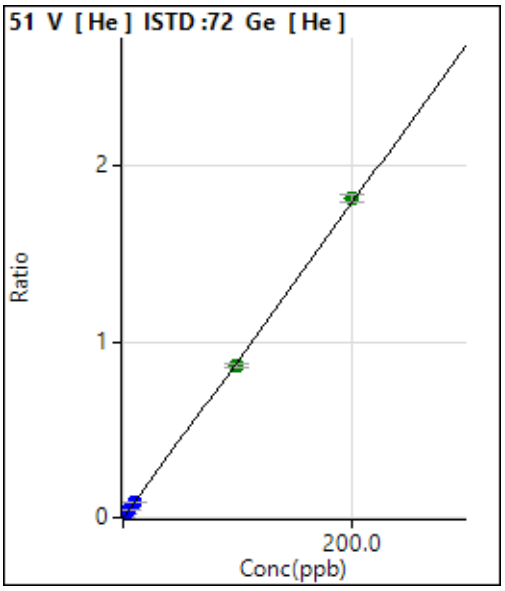


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	623488.18	0.1498	P	1.4	
2	☐	2.000	-0.404	599723.22	0.1426	P	1.6	-120.2
3	☐	5.000	4.124	921434.11	0.2230	P	1.8	-17.5
4	☐	10.000	9.910	1336488.84	0.3257	P	1.1	-0.9
5	☐	100.000	96.962	7443170.55	1.8711	A	1.6	-3.0
6	☐	200.000	201.570	14443088.49	3.7282	A	1.8	0.8

y = 0.0178 * x + 0.1498
R = 0.9998
DL = 0.3599 ppb
BEC = 8.439 ppb

Weight: <None>
Min Conc: <None>

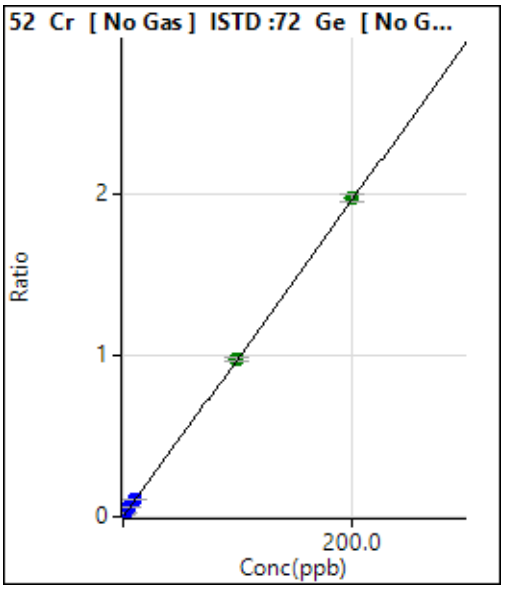
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5106.53	0.0043	P	1.3	
2	☐	2.000	1.750	23909.53	0.0200	P	1.6	-12.5
3	☐	5.000	4.697	54554.53	0.0465	P	2.7	-6.1
4	☐	10.000	9.668	105327.92	0.0911	P	2.7	-3.3
5	☐	100.000	95.893	984011.87	0.8645	A	1.7	-4.1
6	☐	200.000	202.080	2015089.64	1.8171	A	3.0	1.0

y = 0.0090 * x + 0.0043
R = 0.9997
DL = 0.01826 ppb
BEC = 0.4834 ppb

Weight: <None>
Min Conc: <None>

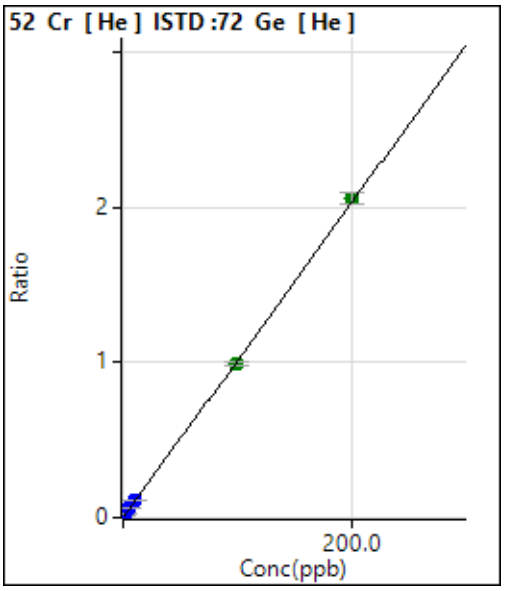


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37434.31	0.0090	P	2.1	
2	☐	2.000	1.766	110679.48	0.0263	P	1.8	-11.7
3	☐	5.000	4.828	232859.77	0.0564	P	1.3	-3.4
4	☐	10.000	9.872	434256.59	0.1058	P	1.5	-1.3
5	☐	100.000	98.544	3881322.96	0.9757	A	1.8	-1.5
6	☐	200.000	200.741	7663884.26	1.9783	A	1.9	0.4

y = 0.0098 * x + 0.0090
R = 1.0000
DL = 0.05682 ppb
BEC = 0.9169 ppb

Weight: <None>
Min Conc: <None>

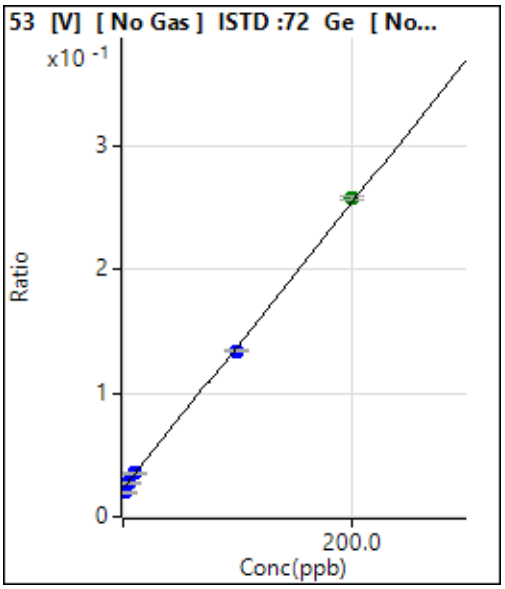
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12652.62	0.0107	P	4.0	
2	☐	2.000	1.538	31466.12	0.0264	P	1.3	-23.1
3	☐	5.000	4.828	70170.90	0.0598	P	2.5	-3.4
4	☐	10.000	9.941	129188.69	0.1117	P	2.7	-0.6
5	☐	100.000	96.416	1126568.11	0.9898	A	2.4	-3.6
6	☐	200.000	201.804	2284256.84	2.0599	A	3.2	0.9

y = 0.0102 * x + 0.0107
R = 0.9998
DL = 0.1276 ppb
BEC = 1.058 ppb

Weight: <None>
Min Conc: <None>

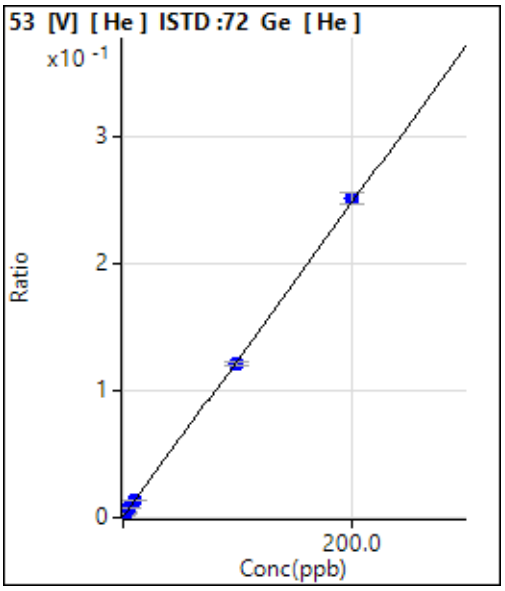


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101036.73	0.0243	P	1.8	
2	☐	2.000	-4.140	81968.87	0.0195	P	2.1	-307.0
3	☐	5.000	2.731	113331.30	0.0274	P	2.6	-45.4
4	☐	10.000	9.394	144120.20	0.0351	P	0.9	-6.1
5	☐	100.000	95.281	534242.26	0.1343	P	1.3	-4.7
6	☐	200.000	202.508	999993.19	0.2581	A	1.4	1.3

y = 0.0012 * x + 0.0243
R = 0.9994
DL = 1.125 ppb
BEC = 21.02 ppb

Weight: <None>
Min Conc: <None>

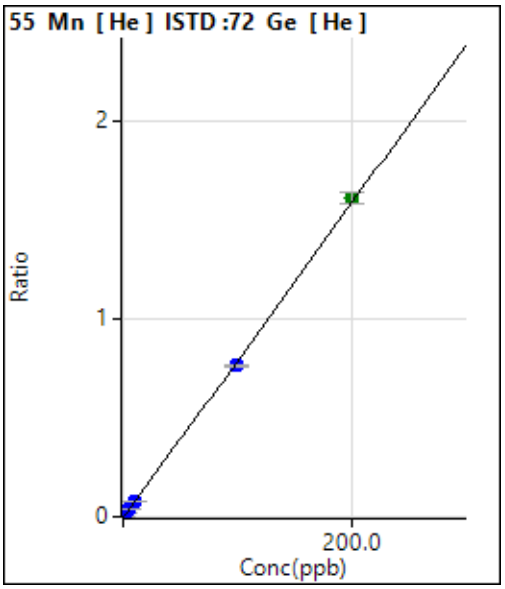
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2336.92	0.0020	P	0.1	
2	☐	2.000	1.449	4500.82	0.0038	P	3.2	-27.5
3	☐	5.000	4.493	8833.00	0.0075	P	6.0	-10.1
4	☐	10.000	9.573	15946.03	0.0138	P	1.4	-4.3
5	☐	100.000	96.223	137279.10	0.1206	P	2.1	-3.8
6	☐	200.000	201.928	278261.94	0.2509	P	3.1	1.0

y = 0.0012 * x + 0.0020
R = 0.9998
DL = 0.003174 ppb
BEC = 1.61 ppb

Weight: <None>
Min Conc: <None>

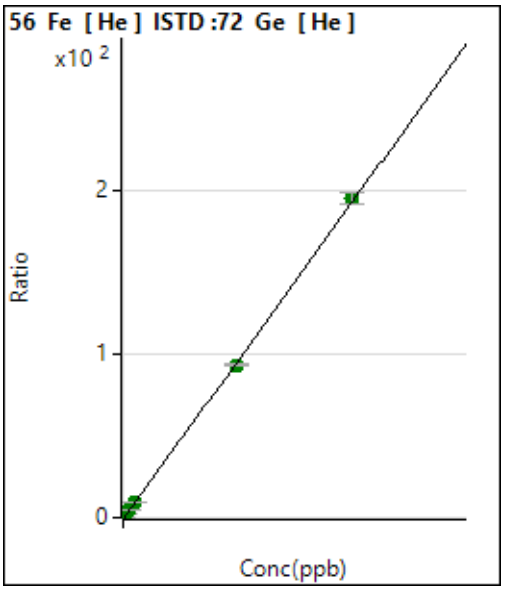


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1773.48	0.0015	P	5.5	
2	☐	2.000	1.839	19250.32	0.0161	P	2.2	-8.0
3	☐	5.000	4.861	47140.58	0.0402	P	1.7	-2.8
4	☐	10.000	9.816	92011.73	0.0795	P	2.8	-1.8
5	☐	100.000	95.630	867052.17	0.7618	P	1.4	-4.4
6	☐	200.000	202.199	1784314.40	1.6091	A	3.4	1.1

y = 0.0080 * x + 0.0015
R = 0.9997
DL = 0.03105 ppb
BEC = 0.1895 ppb

Weight: <None>
Min Conc: <None>

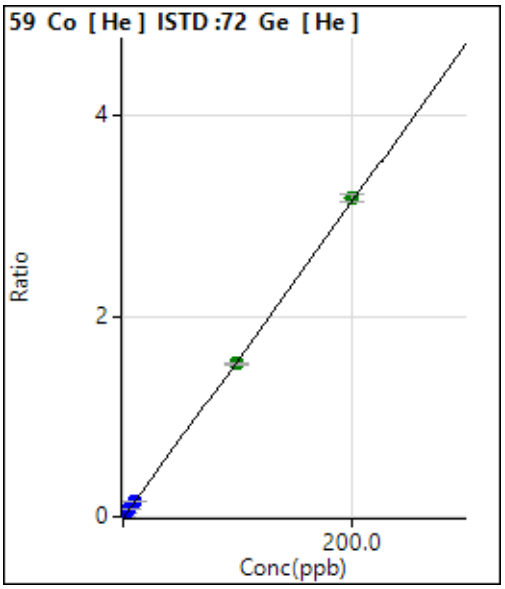
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43278.54	0.0367	P	0.9	
2	☐	200.000	188.123	2218554.55	1.8583	A	1.2	-5.9
3	☐	500.000	480.763	5508640.75	4.6918	A	2.3	-3.8
4	☐	1000.000	985.434	11078721.09	9.5783	A	2.2	-1.5
5	☐	10000.00	9640.722	106286848.4	93.3839	A	1.3	-3.6
6	☐	20000.00	20180.96	216728676.7	195.440	A	3.2	0.9

y = 0.0097 * x + 0.0367
R = 0.9998
DL = 0.1028 ppb
BEC = 3.795 ppb

Weight: <None>
Min Conc: <None>

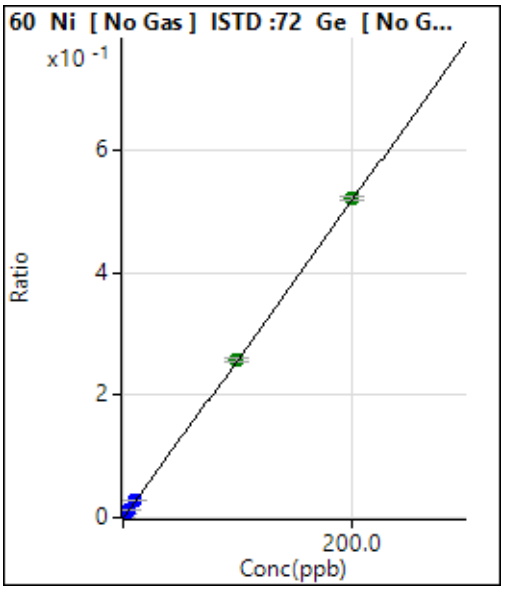


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1033.39	0.0009	P	12.3	
2	☐	2.000	1.923	37253.94	0.0312	P	4.1	-3.9
3	☐	5.000	4.873	91277.55	0.0777	P	3.4	-2.5
4	☐	10.000	10.047	184353.51	0.1594	P	2.7	0.5
5	☐	100.000	96.844	1739956.22	1.5287	A	1.6	-3.2
6	☐	200.000	201.580	3527645.26	3.1810	A	2.4	0.8

y = 0.0158 * x + 8.7793E-004
R = 0.9998
DL = 0.02052 ppb
BEC = 0.05565 ppb

Weight: <None>
Min Conc: <None>

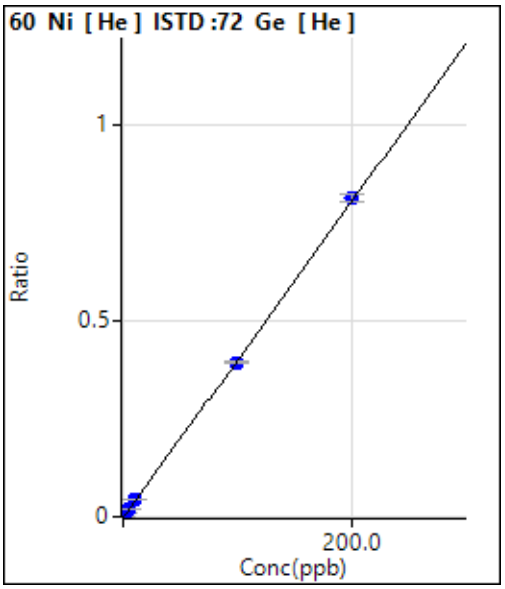
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4237.40	0.0010	P	1.1	
2	☐	2.000	1.918	25250.18	0.0060	P	1.5	-4.1
3	☐	5.000	4.998	57898.44	0.0140	P	2.2	0.0
4	☐	10.000	10.113	112049.36	0.0273	P	1.1	1.1
5	☐	100.000	98.616	1023925.77	0.2574	A	2.1	-1.4
6	☐	200.000	200.687	2025283.09	0.5228	A	1.4	0.3

y = 0.0026 * x + 0.0010
R = 1.0000
DL = 0.01257 ppb
BEC = 0.3916 ppb

Weight: <None>
Min Conc: <None>

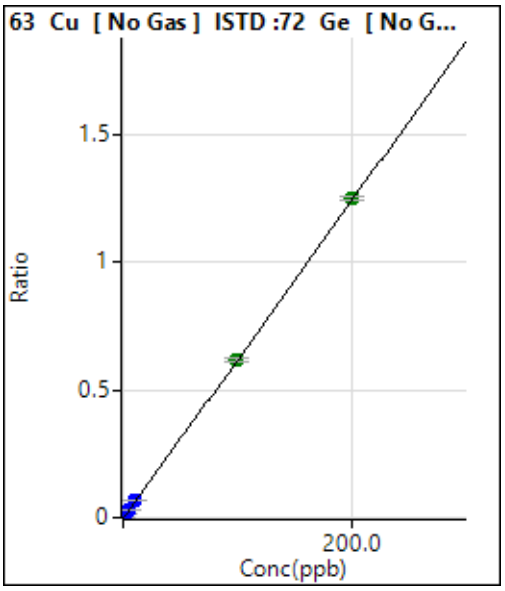


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	2.3	
2	☐	2.000	1.973	10907.82	0.0091	P	7.7	-1.3
3	☐	5.000	4.850	24391.83	0.0208	P	2.6	-3.0
4	☐	10.000	10.255	49315.27	0.0426	P	2.2	2.6
5	☐	100.000	97.350	449400.83	0.3948	P	1.8	-2.7
6	☐	200.000	201.316	904123.53	0.8153	P	2.0	0.7

y = 0.0040 * x + 0.0012
R = 0.9999
DL = 0.0196 ppb
BEC = 0.2877 ppb

Weight: <None>
Min Conc: <None>

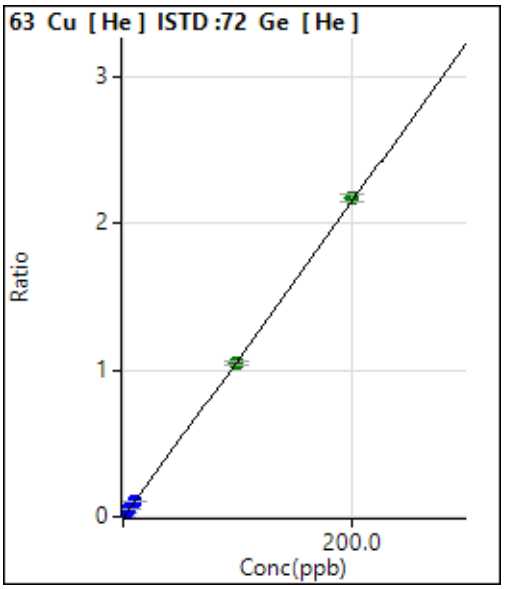
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7608.90	0.0018	P	4.3	
2	☐	2.000	2.006	60252.13	0.0143	P	3.6	0.3
3	☐	5.000	5.060	137858.86	0.0334	P	2.6	1.2
4	☐	10.000	10.184	267930.58	0.0653	P	2.0	1.8
5	☐	100.000	98.992	2461635.85	0.6188	A	1.8	-1.0
6	☐	200.000	200.493	4848458.99	1.2515	A	1.2	0.2

y = 0.0062 * x + 0.0018
R = 1.0000
DL = 0.03749 ppb
BEC = 0.2933 ppb

Weight: <None>
Min Conc: <None>

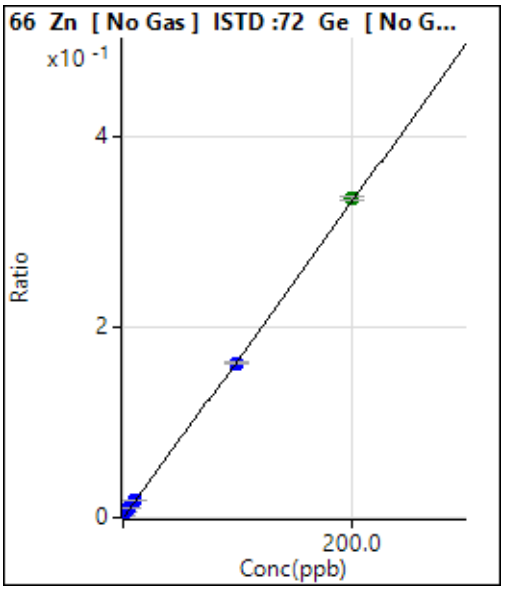


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.09	0.0011	P	16.3	
2	☐	2.000	1.925	26111.82	0.0219	P	2.4	-3.8
3	☐	5.000	4.936	63848.37	0.0544	P	1.2	-1.3
4	☐	10.000	10.015	126312.89	0.1092	P	0.4	0.1
5	☐	100.000	96.995	1193030.61	1.0482	A	1.7	-3.0
6	☐	200.000	201.504	2413664.39	2.1764	A	1.8	0.8

y = 0.0108 * x + 0.0011
R = 0.9998
DL = 0.04961 ppb
BEC = 0.1014 ppb

Weight: <None>
Min Conc: <None>

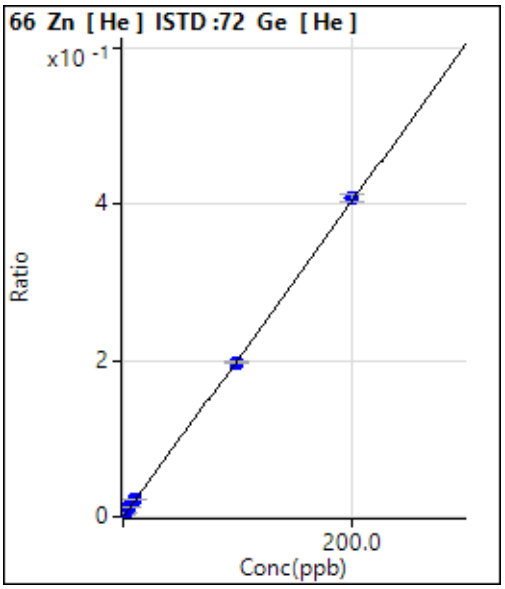
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4424.13	0.0011	P	4.0	
2	☐	2.000	2.492	21897.70	0.0052	P	3.4	24.6
3	☐	5.000	5.019	38885.42	0.0094	P	4.4	0.4
4	☐	10.000	10.061	73027.29	0.0178	P	1.2	0.6
5	☐	100.000	97.306	648074.41	0.1629	P	2.0	-2.7
6	☐	200.000	201.339	1301588.63	0.3360	A	1.5	0.7

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.07603 ppb
BEC = 0.639 ppb

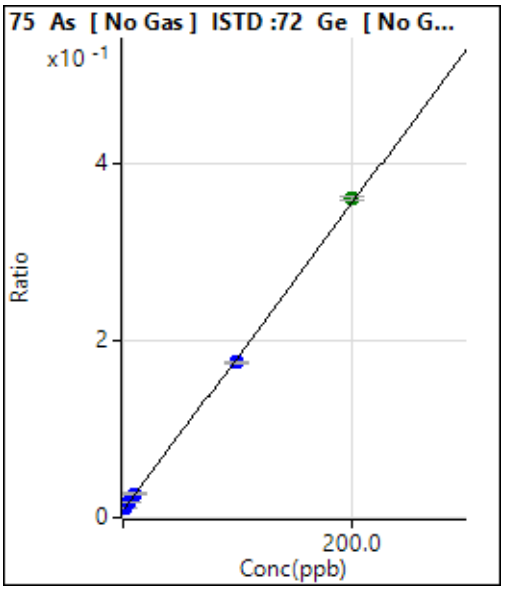
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1546.78	0.0013	P	6.9	
2	☐	2.000	2.350	7238.72	0.0061	P	0.9	17.5
3	☐	5.000	4.954	13299.97	0.0113	P	3.7	-0.9
4	☐	10.000	10.064	25053.27	0.0217	P	1.3	0.6
5	☐	100.000	97.122	224987.90	0.1977	P	1.9	-2.9
6	☐	200.000	201.433	453103.39	0.4086	P	2.6	0.7

y = 0.0020 * x + 0.0013
R = 0.9998
DL = 0.1336 ppb
BEC = 0.6498 ppb

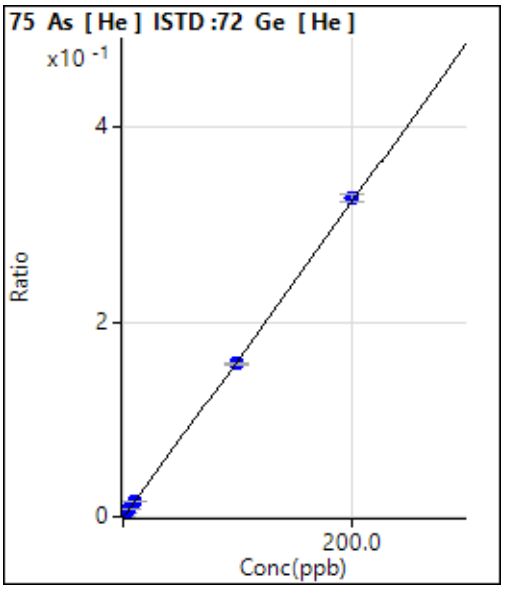
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41420.07	0.0100	P	2.2	
2	☐	2.000	0.174	43111.79	0.0103	P	0.8	-91.3
3	☐	5.000	4.236	71393.00	0.0173	P	2.2	-15.3
4	☐	10.000	9.765	110125.14	0.0268	P	2.7	-2.4
5	☐	100.000	95.313	695363.61	0.1748	P	1.6	-4.7
6	☐	200.000	202.393	1394740.55	0.3600	A	1.6	1.2

y = 0.0017 * x + 0.0100
R = 0.9996
DL = 0.3786 ppb
BEC = 5.754 ppb

Weight: <None>
Min Conc: <None>

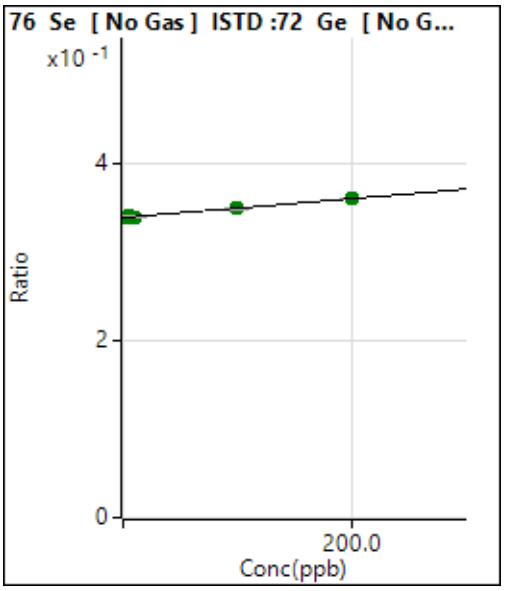


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	356.67	0.0003	P	6.9	
2	☐	2.000	1.841	3928.36	0.0033	P	3.7	-7.9
3	☐	5.000	4.835	9564.50	0.0081	P	4.6	-3.3
4	☐	10.000	9.803	18745.11	0.0162	P	1.3	-2.0
5	☐	100.000	96.787	179057.99	0.1573	P	1.7	-3.2
6	☐	200.000	201.622	363060.04	0.3274	P	2.6	0.8

y = 0.0016 * x + 3.0293E-004
R = 0.9998
DL = 0.03847 ppb
BEC = 0.1867 ppb

Weight: <None>
Min Conc: <None>

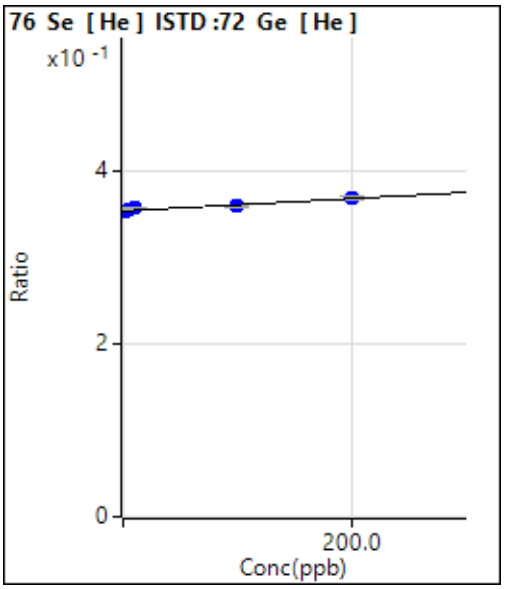
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1411471.07	0.3391	A	0.2	
2	☐	2.000	-6.447	1422952.53	0.3384	A	0.7	-422.4
3	☐	5.000	11.669	1406365.14	0.3404	A	0.6	133.4
4	☐	10.000	6.783	1394506.23	0.3399	A	0.4	-32.2
5	☐	100.000	95.860	1390091.65	0.3495	A	0.5	-4.1
6	☐	200.000	202.148	1398200.03	0.3609	A	0.3	1.1

y = 1.0766E-004 * x + 0.3391
R = 0.9980
DL = 22.78 ppb
BEC = 3150 ppb

Weight: <None>
Min Conc: <None>

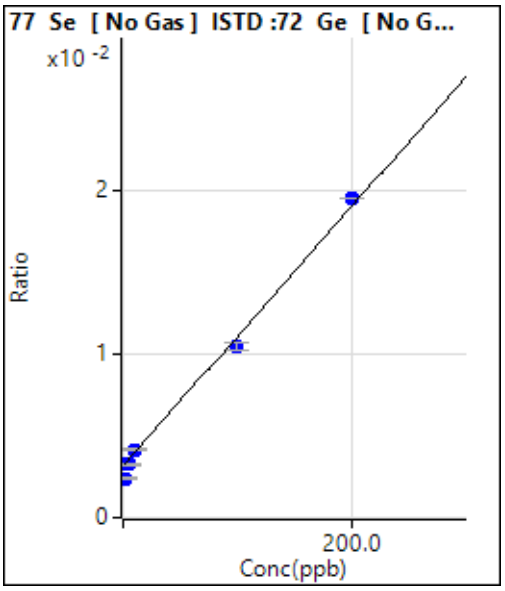


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416216.30	0.3534	P	0.2	
2	☐	2.000	-11.688	420892.72	0.3526	P	1.0	-684.4
3	☐	5.000	21.482	416774.79	0.3550	P	0.9	329.6
4	☐	10.000	49.882	412980.25	0.3571	P	0.7	398.8
5	☐	100.000	78.995	408769.76	0.3592	P	0.4	-21.0
6	☐	200.000	208.233	408732.73	0.3686	P	1.5	4.1

y = 7.2568E-005 * x + 0.3534
R = 0.9636
DL = 35.82 ppb
BEC = 4870 ppb

Weight: <None>
Min Conc: <None>

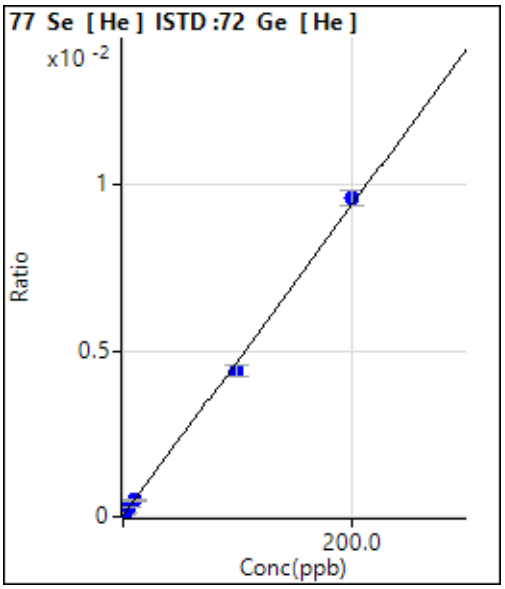
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13703.79	0.0033	P	1.8	
2	☐	2.000	-11.125	10137.27	0.0024	P	3.9	-656.3
3	☐	5.000	-0.623	13400.07	0.0032	P	2.7	-112.5
4	☐	10.000	10.886	17050.96	0.0042	P	2.4	8.9
5	☐	100.000	90.162	41516.84	0.0104	P	4.7	-9.8
6	☐	200.000	205.146	75736.43	0.0195	P	0.3	2.6

y = 7.9240E-005 * x + 0.0033
R = 0.9972
DL = 2.21 ppb
BEC = 41.55 ppb

Weight: <None>
Min Conc: <None>

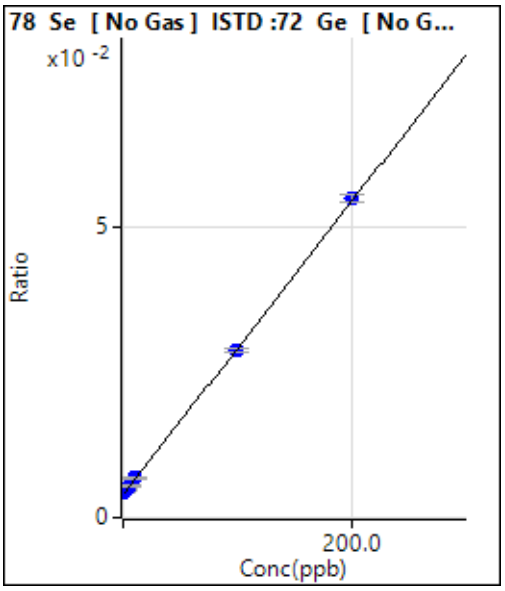


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	6.5	
2	☐	2.000	1.111	156.67	0.0001	P	8.5	-44.4
3	☐	5.000	4.796	356.68	0.0003	P	8.8	-4.1
4	☐	10.000	8.887	573.36	0.0005	P	8.1	-11.1
5	☐	100.000	92.779	5034.34	0.0044	P	8.2	-7.2
6	☐	200.000	203.680	10667.72	0.0096	P	4.4	1.8

y = 4.6838E-005 * x + 7.9270E-005
R = 0.9991
DL = 0.3311 ppb
BEC = 1.692 ppb

Weight: <None>
Min Conc: <None>

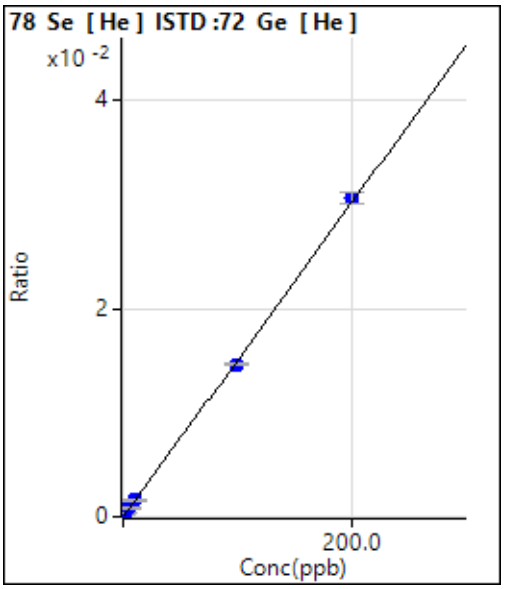
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17611.61	0.0042	P	2.6	
2	☐	2.000	2.103	20014.94	0.0048	P	2.4	5.2
3	☐	5.000	4.648	22311.83	0.0054	P	1.9	-7.0
4	☐	10.000	10.145	27828.68	0.0068	P	1.1	1.5
5	☐	100.000	97.785	114635.87	0.0288	P	2.4	-2.2
6	☐	200.000	201.108	212292.33	0.0548	P	2.0	0.6

y = 2.5143E-004 * x + 0.0042
R = 0.9999
DL = 1.302 ppb
BEC = 16.83 ppb

Weight: <None>
Min Conc: <None>

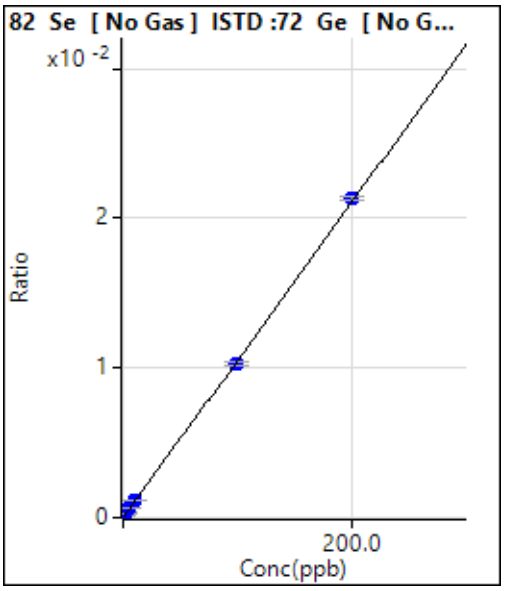


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	158.67	0.0001	P	8.1	
2	☐	2.000	2.023	525.34	0.0004	P	6.2	1.2
3	☐	5.000	4.647	981.37	0.0008	P	4.6	-7.1
4	☐	10.000	9.711	1850.80	0.0016	P	4.8	-2.9
5	☐	100.000	96.045	16650.84	0.0146	P	1.7	-4.0
6	☐	200.000	202.001	33953.46	0.0306	P	3.5	1.0

y = 1.5091E-004 * x + 1.3471E-004
R = 0.9997
DL = 0.216 ppb
BEC = 0.8926 ppb

Weight: <None>
Min Conc: <None>

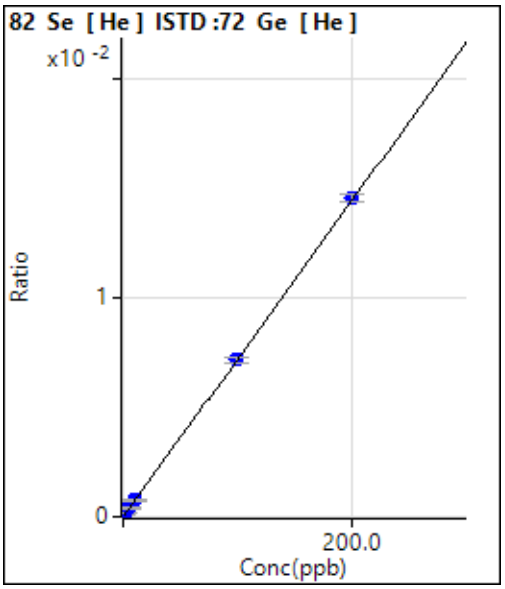
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	25.5	
2	☐	2.000	1.939	1290.09	0.0003	P	19.5	-3.1
3	☐	5.000	4.748	2490.28	0.0006	P	1.2	-5.0
4	☐	10.000	9.887	4694.22	0.0011	P	3.6	-1.1
5	☐	100.000	96.838	40985.51	0.0103	P	1.8	-3.2
6	☐	200.000	201.593	82664.00	0.0213	P	1.8	0.8

y = 1.0534E-004 * x + 1.0258E-004
R = 0.9998
DL = 0.7442 ppb
BEC = 0.9739 ppb

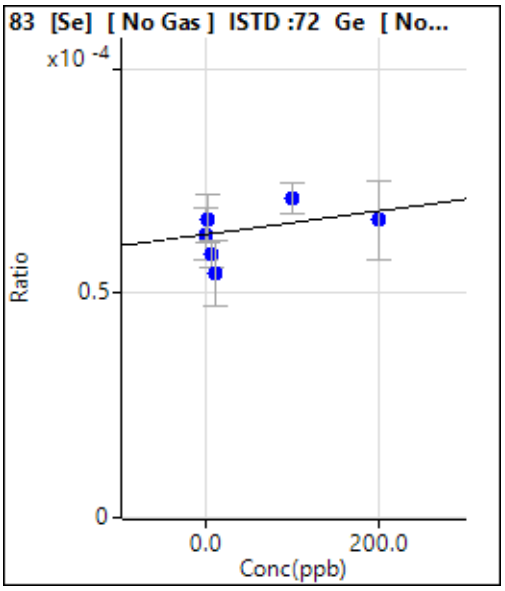
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	22.0	
2	☐	2.000	1.461	206.68	0.0002	P	20.2	-26.9
3	☐	5.000	4.684	476.68	0.0004	P	20.7	-6.3
4	☐	10.000	9.567	876.71	0.0008	P	9.0	-4.3
5	☐	100.000	98.378	8149.25	0.0072	P	3.4	-1.6
6	☐	200.000	200.846	16133.29	0.0145	P	2.0	0.4

y = 7.2094E-005 * x + 6.7964E-005
R = 1.0000
DL = 0.621 ppb
BEC = 0.9427 ppb

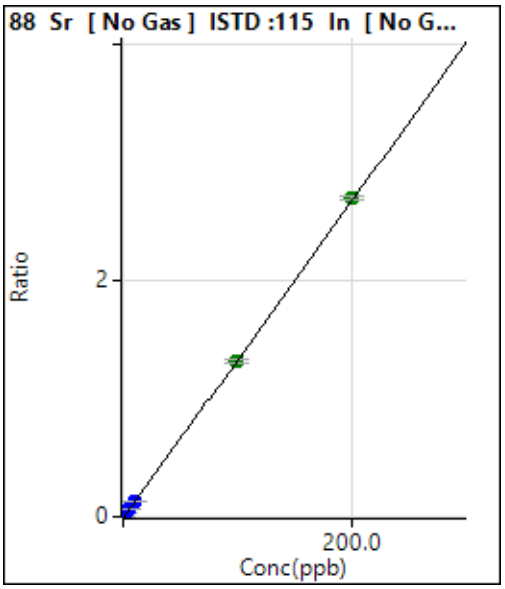
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	18.4	
2	☐	2.000	128.285	280.01	0.0001	P	16.3	6314.2
3	☐	5.000	-167.283	243.34	0.0001	P	10.2	-3445.7
4	☐	10.000	-339.012	223.34	0.0001	P	26.7	-3490.1
5	☐	100.000	305.817	283.34	0.0001	P	10.1	205.8
6	☐	200.000	117.586	256.68	0.0001	P	26.6	-41.2

y = 2.6064E-008 * x + 6.3252E-005
R = 0.5062
DL = 1341 ppb
BEC = 2427 ppb

Weight: <None>
Min Conc: <None>

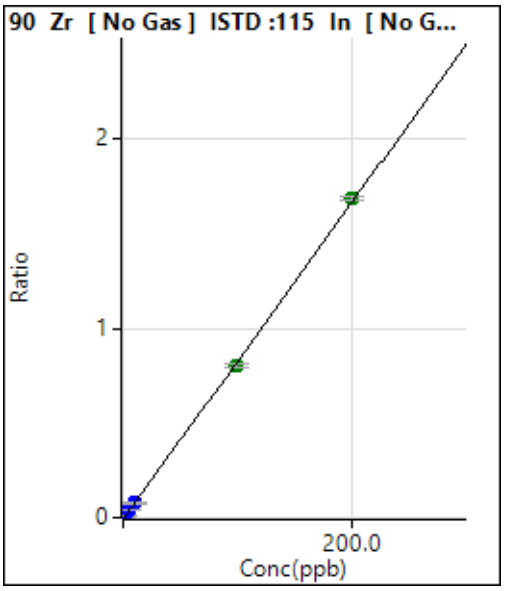


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4904.32	0.0009	P	7.3	
2	☐	2.000	1.864	137527.00	0.0259	P	1.2	-6.8
3	☐	5.000	4.711	337079.14	0.0641	P	1.1	-5.8
4	☐	10.000	9.534	674025.95	0.1287	P	0.6	-4.7
5	☐	100.000	97.841	6609469.07	1.3123	A	2.4	-2.2
6	☐	200.000	201.111	13219901.88	2.6964	A	1.3	0.6

y = 0.0134 * x + 9.2501E-004
R = 0.9999
DL = 0.01507 ppb
BEC = 0.06902 ppb

Weight: <None>
Min Conc: <None>

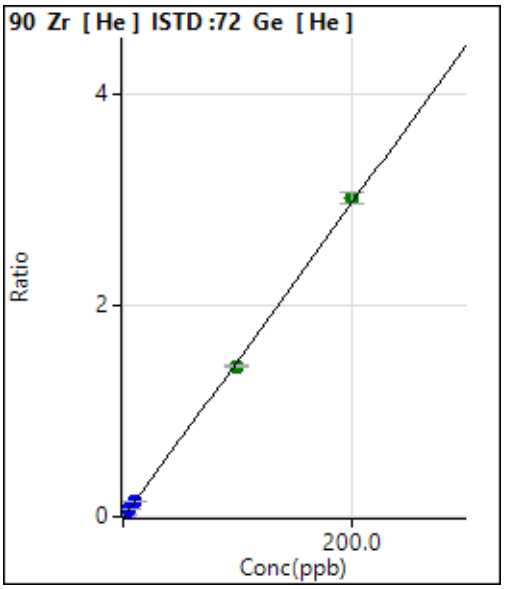
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2100.20	0.0004	P	19.4	
2	☐	2.000	1.596	72866.28	0.0137	P	1.3	-20.2
3	☐	5.000	4.327	192226.04	0.0365	P	1.7	-13.5
4	☐	10.000	9.154	402526.14	0.0769	P	1.8	-8.5
5	☐	100.000	96.419	4058347.96	0.8058	A	2.6	-3.6
6	☐	200.000	201.854	8268343.63	1.6864	A	1.4	0.9

y = 0.0084 * x + 3.9617E-004
R = 0.9998
DL = 0.02754 ppb
BEC = 0.04743 ppb

Weight: <None>
Min Conc: <None>

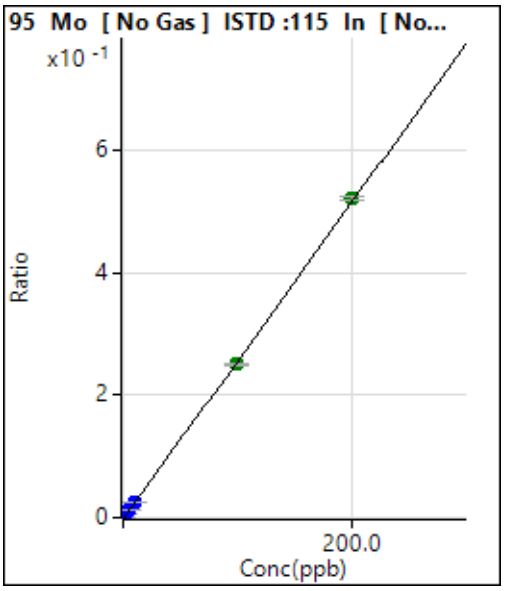


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0017	P	2.1	
2	☐	2.000	1.597	30474.83	0.0255	P	1.3	-20.2
3	☐	5.000	4.306	77360.72	0.0659	P	3.7	-13.9
4	☐	10.000	9.243	161276.68	0.1394	P	2.1	-7.6
5	☐	100.000	95.413	1619902.21	1.4232	A	2.0	-4.6
6	☐	200.000	202.353	3344962.35	3.0164	A	3.1	1.2

y = 0.0149 * x + 0.0017
R = 0.9997
DL = 0.007522 ppb
BEC = 0.1167 ppb

Weight: <None>
Min Conc: <None>

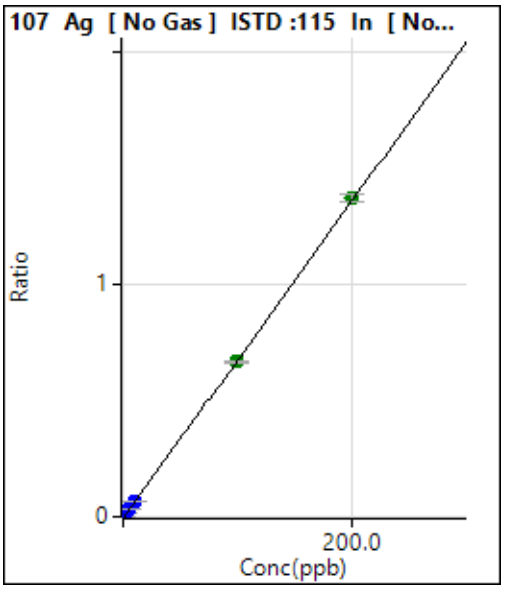
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0001	P	21.2	
2	☐	2.000	1.886	26265.88	0.0049	P	4.8	-5.7
3	☐	5.000	4.791	65532.40	0.0125	P	2.1	-4.2
4	☐	10.000	9.571	129939.16	0.0248	P	2.1	-4.3
5	☐	100.000	96.791	1260475.16	0.2503	A	2.0	-3.2
6	☐	200.000	201.632	2555596.78	0.5213	A	1.5	0.8

y = 0.0026 * x + 7.2253E-005
R = 0.9998
DL = 0.01779 ppb
BEC = 0.02795 ppb

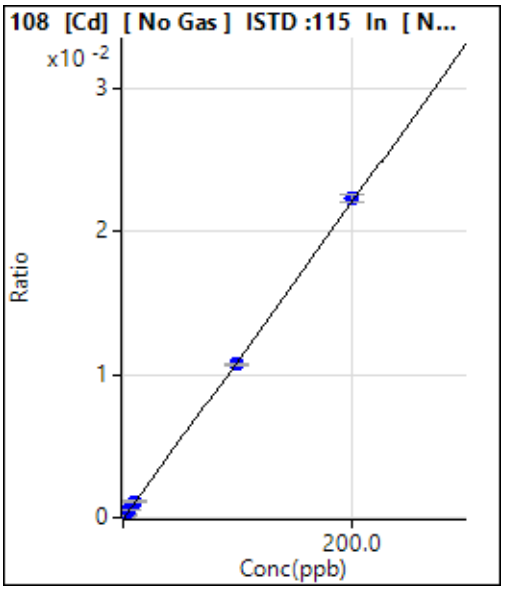
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1473.44	0.0003	P	9.2	
2	☐	2.000	1.978	73196.34	0.0138	P	2.4	-1.1
3	☐	5.000	4.937	178888.02	0.0340	P	1.2	-1.3
4	☐	10.000	9.934	356860.89	0.0681	P	1.9	-0.7
5	☐	100.000	97.700	3362962.35	0.6677	A	1.4	-2.3
6	☐	200.000	201.155	6738256.15	1.3744	A	2.2	0.6

y = 0.0068 * x + 2.7790E-004
R = 0.9999
DL = 0.01118 ppb
BEC = 0.04068 ppb

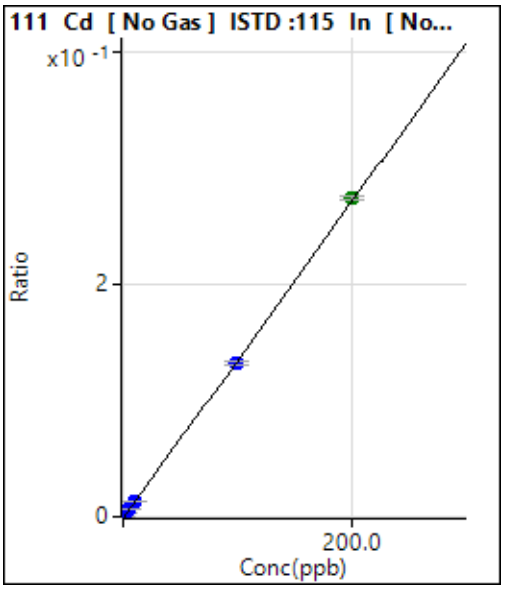
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	99.8	
2	☐	2.000	1.758	1053.40	0.0002	P	16.5	-12.1
3	☐	5.000	4.930	2893.71	0.0006	P	4.1	-1.4
4	☐	10.000	10.251	5968.10	0.0011	P	3.4	2.5
5	☐	100.000	96.634	53948.86	0.0107	P	1.3	-3.4
6	☐	200.000	201.674	109577.53	0.0224	P	1.9	0.8

y = 1.1080E-004 * x + 3.7564E-006
R = 0.9998
DL = 0.1015 ppb
BEC = 0.0339 ppb

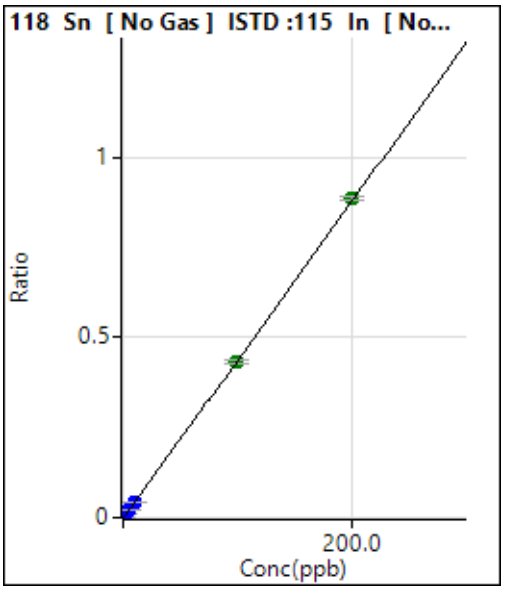
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	161.88	0.0000	P	17.1	
2	☐	2.000	1.958	14305.56	0.0027	P	3.2	-2.1
3	☐	5.000	4.876	35056.73	0.0067	P	2.6	-2.5
4	☐	10.000	9.727	69461.72	0.0133	P	1.0	-2.7
5	☐	100.000	97.128	665670.65	0.1322	P	2.1	-2.9
6	☐	200.000	201.453	1343775.42	0.2741	A	1.7	0.7

y = 0.0014 * x + 3.0559E-005
R = 0.9999
DL = 0.01152 ppb
BEC = 0.02246 ppb

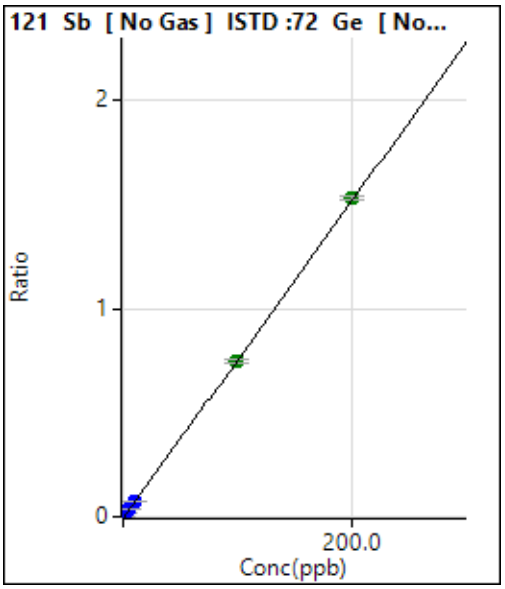
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8672.97	0.0016	P	4.3	
2	☐	2.000	1.777	50235.19	0.0095	P	1.9	-11.1
3	☐	5.000	4.844	120829.17	0.0230	P	2.4	-3.1
4	☐	10.000	9.771	233896.42	0.0447	P	1.8	-2.3
5	☐	100.000	97.909	2179718.82	0.4328	A	2.4	-2.1
6	☐	200.000	201.063	4348892.12	0.8870	A	1.5	0.5

y = 0.0044 * x + 0.0016
R = 0.9999
DL = 0.04822 ppb
BEC = 0.3715 ppb

Weight: <None>
Min Conc: <None>

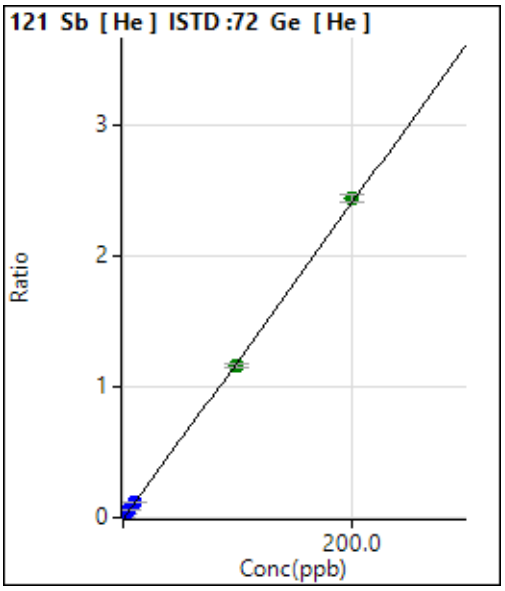


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1300.09	0.0003	P	6.4	
2	☐	2.000	1.927	63069.68	0.0150	P	2.9	-3.6
3	☐	5.000	4.830	153386.18	0.0371	P	1.8	-3.4
4	☐	10.000	9.841	309005.41	0.0753	P	2.5	-1.6
5	☐	100.000	97.922	2970035.48	0.7466	A	2.6	-2.1
6	☐	200.000	201.052	5937645.75	1.5326	A	0.9	0.5

y = 0.0076 * x + 3.1238E-004
R = 0.9999
DL = 0.007811 ppb
BEC = 0.04099 ppb

Weight: <None>
Min Conc: <None>

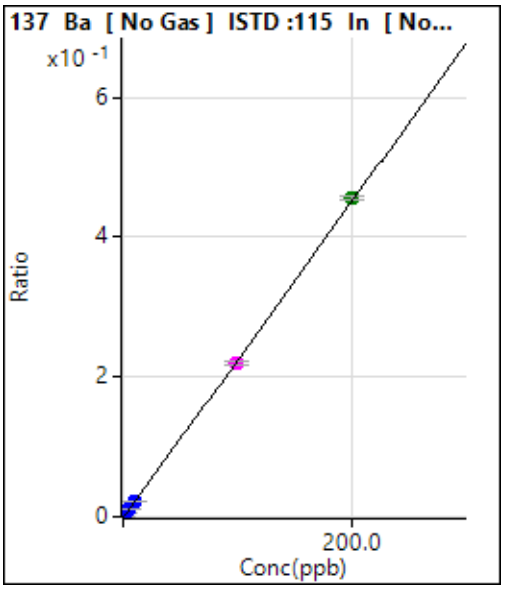
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	500.02	0.0004	P	15.2	
2	☐	2.000	1.854	27265.11	0.0228	P	2.9	-7.3
3	☐	5.000	4.709	67310.56	0.0573	P	1.9	-5.8
4	☐	10.000	9.697	136043.29	0.1176	P	2.3	-3.0
5	☐	100.000	95.928	1320040.99	1.1598	A	1.7	-4.1
6	☐	200.000	202.060	2708541.42	2.4424	A	2.6	1.0

y = 0.0121 * x + 4.2496E-004
R = 0.9997
DL = 0.016 ppb
BEC = 0.03516 ppb

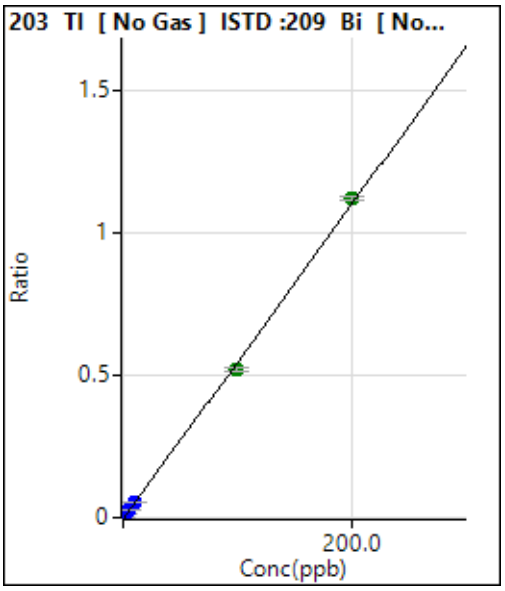
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.15	0.0003	P	10.7	
2	☐	2.000	1.879	24276.29	0.0046	P	2.6	-6.0
3	☐	5.000	4.818	59039.55	0.0112	P	4.2	-3.6
4	☐	10.000	9.605	115501.48	0.0221	P	0.7	-4.0
5	☐	100.000	97.269	1110159.10	0.2204	M	2.9	-2.7
6	☐	200.000	201.391	2235829.65	0.4560	A	1.4	0.7

y = 0.0023 * x + 3.2087E-004
R = 0.9999
DL = 0.04554 ppb
BEC = 0.1418 ppb

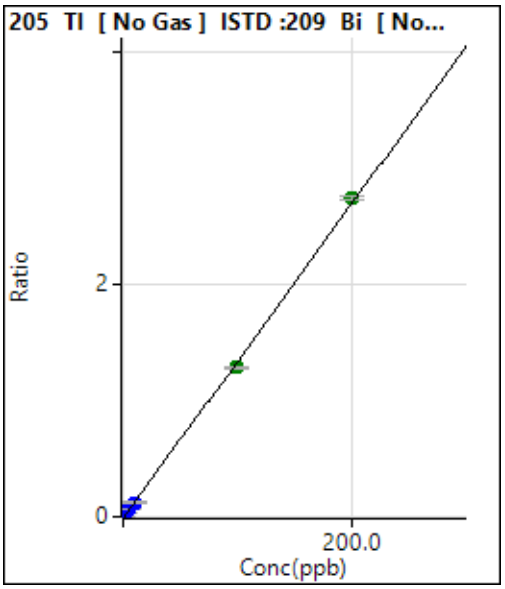
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.14	0.0003	P	7.8	
2	☐	2.000	1.878	55793.72	0.0107	P	2.8	-6.1
3	☐	5.000	4.593	135000.39	0.0257	P	2.0	-8.1
4	☐	10.000	9.304	270992.55	0.0517	P	2.8	-7.0
5	☐	100.000	94.454	2656535.90	0.5223	A	2.8	-5.5
6	☐	200.000	202.819	5571897.42	1.1211	A	0.9	1.4

y = 0.0055 * x + 3.1486E-004
R = 0.9995
DL = 0.01335 ppb
BEC = 0.05697 ppb

Weight: <None>
Min Conc: <None>

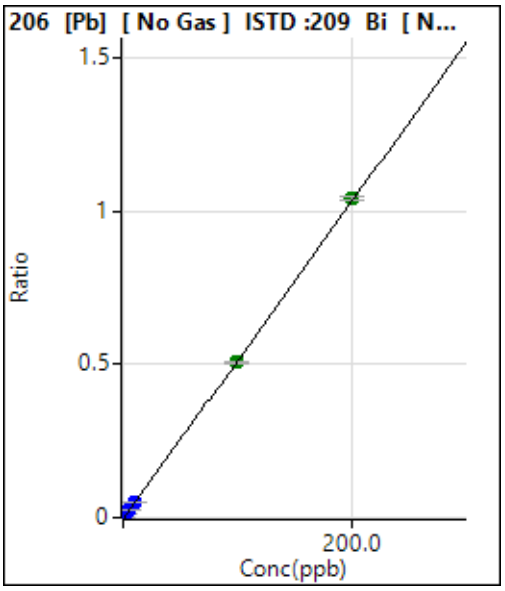


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4244.13	0.0008	P	4.2	
2	☐	2.000	1.804	131364.11	0.0252	P	1.7	-9.8
3	☐	5.000	4.409	317138.36	0.0604	P	2.2	-11.8
4	☐	10.000	9.034	643602.01	0.1229	P	2.6	-9.7
5	☐	100.000	94.683	6510474.90	1.2800	A	1.9	-5.3
6	☐	200.000	202.724	13615678.13	2.7396	A	1.2	1.4

y = 0.0135 * x + 8.0492E-004
R = 0.9995
DL = 0.007506 ppb
BEC = 0.05958 ppb

Weight: <None>
Min Conc: <None>

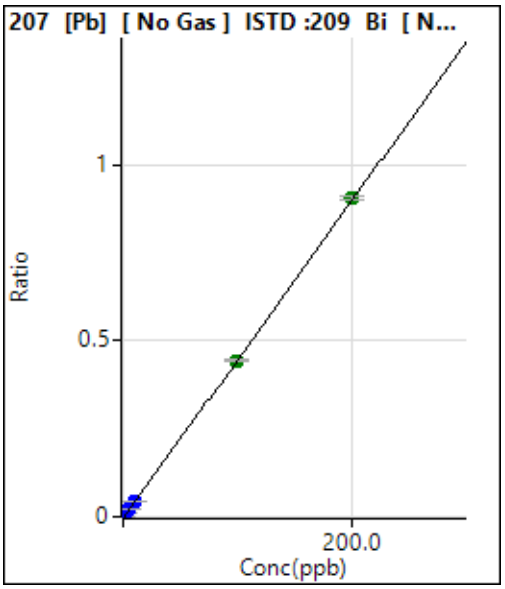
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2093.56	0.0004	P	1.4	
2	☐	2.000	1.997	56105.45	0.0108	P	3.6	-0.1
3	☐	5.000	4.917	136045.56	0.0259	P	1.4	-1.7
4	☐	10.000	9.875	270387.76	0.0516	P	1.2	-1.2
5	☐	100.000	97.799	2581850.59	0.5076	A	1.2	-2.2
6	☐	200.000	201.109	5185454.40	1.0434	A	1.1	0.6

y = 0.0052 * x + 3.9707E-004
R = 0.9999
DL = 0.003131 ppb
BEC = 0.07656 ppb

Weight: <None>
Min Conc: <None>

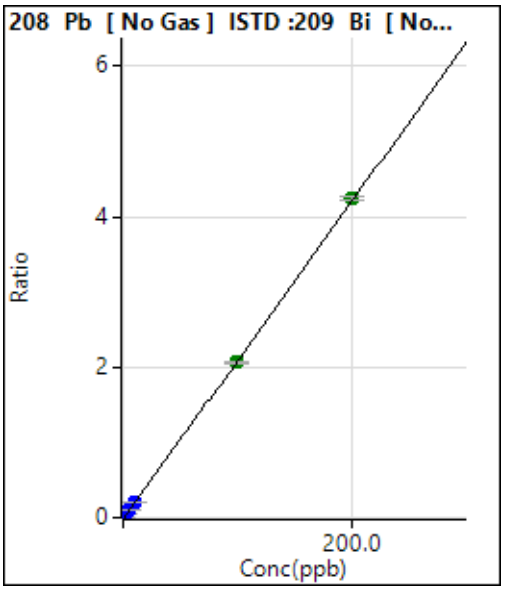


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1683.48	0.0003	P	17.7	
2	☐	2.000	1.953	47653.75	0.0091	P	2.7	-2.3
3	☐	5.000	4.892	117666.31	0.0224	P	1.5	-2.2
4	☐	10.000	9.855	234677.64	0.0448	P	1.0	-1.5
5	☐	100.000	98.236	2256621.22	0.4437	A	1.4	-1.8
6	☐	200.000	200.892	4507385.76	0.9070	A	0.7	0.4

y = 0.0045 * x + 3.1925E-004
R = 0.9999
DL = 0.03765 ppb
BEC = 0.07074 ppb

Weight: <None>
Min Conc: <None>

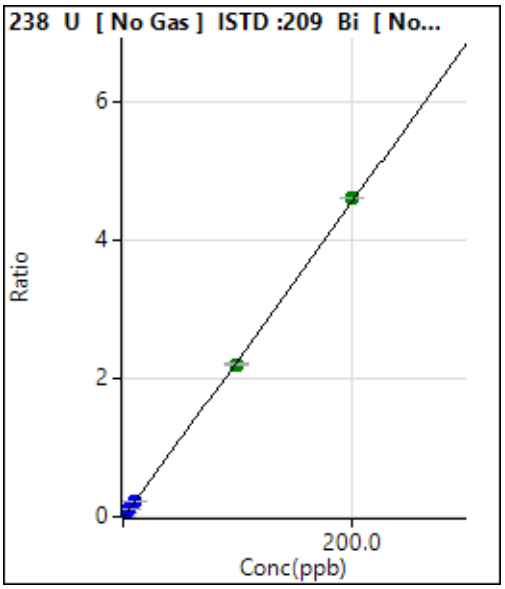
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8201.26	0.0016	P	3.9	
2	☐	2.000	1.928	220534.58	0.0423	P	2.9	-3.6
3	☐	5.000	4.791	539540.36	0.1027	P	1.4	-4.2
4	☐	10.000	9.714	1082670.58	0.2067	P	1.2	-2.9
5	☐	100.000	97.924	10524649.43	2.0692	A	1.2	-2.1
6	☐	200.000	201.058	21106062.91	4.2468	A	1.1	0.5

y = 0.0211 * x + 0.0016
R = 0.9999
DL = 0.008711 ppb
BEC = 0.07367 ppb

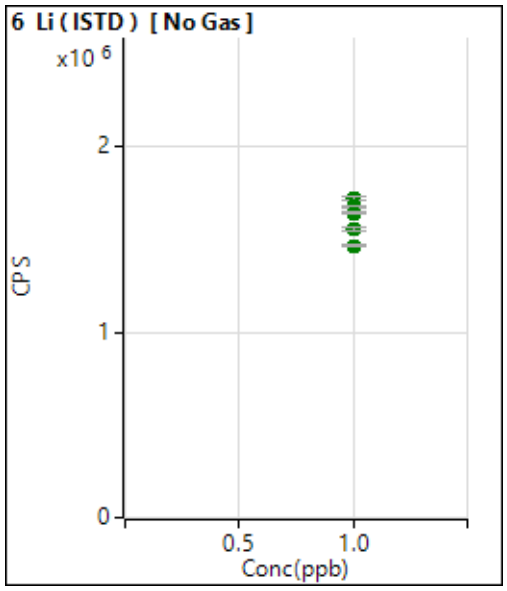
Weight: <None>
Min Conc: <None>



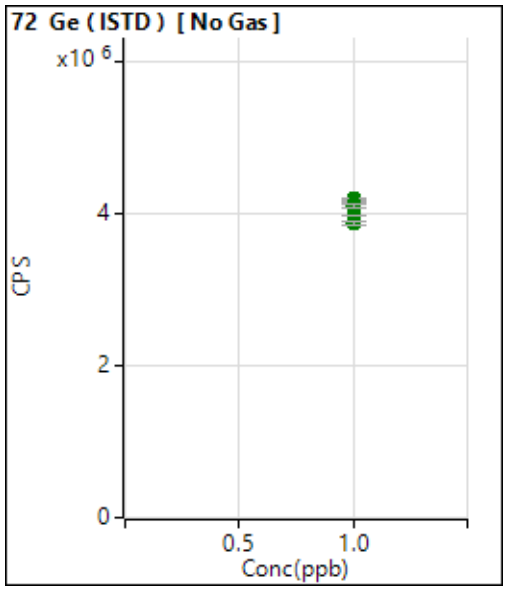
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5417.97	0.0010	P	3.9	
2	☐	2.000	1.829	223446.58	0.0428	P	0.8	-8.5
3	☐	5.000	4.528	548908.05	0.1045	P	1.6	-9.4
4	☐	10.000	9.306	1119428.45	0.2137	P	1.0	-6.9
5	☐	100.000	96.488	11219859.42	2.2059	A	1.4	-3.5
6	☐	200.000	201.804	22922825.49	4.6125	A	0.4	0.9

y = 0.0229 * x + 0.0010
R = 0.9998
DL = 0.005247 ppb
BEC = 0.04497 ppb

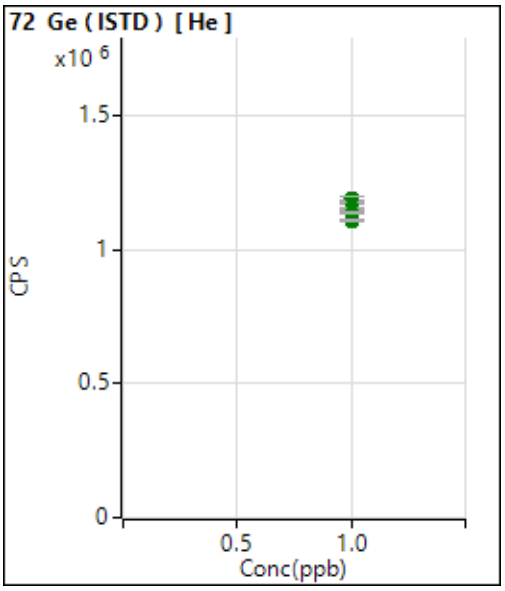
Weight: <None>
Min Conc: <None>



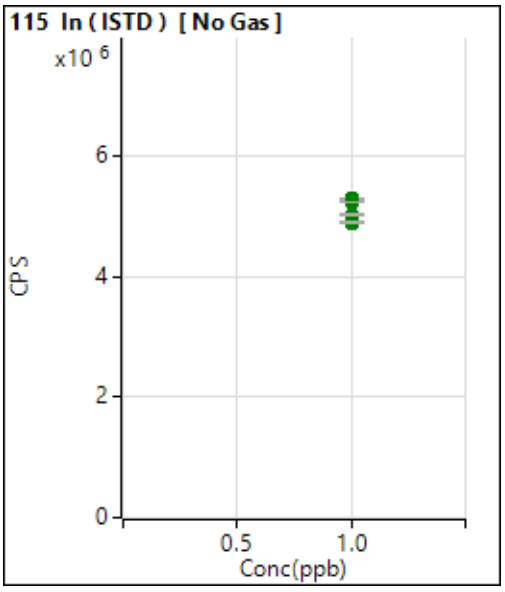
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1709896.43		A	0.1	
2	☐	1.000		1722227.11		A	0.8	
3	☐	1.000		1676112.40		A	0.7	
4	☐	1.000		1644380.63		A	0.5	
5	☐	1.000		1556073.15		A	1.2	
6	☐	1.000		1464767.87		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4162003.17		A	0.4	
2	☐	1.000		4204480.88		A	0.1	
3	☐	1.000		4131653.38		A	0.1	
4	☐	1.000		4103178.79		A	0.7	
5	☐	1.000		3977893.69		A	0.2	
6	☐	1.000		3874294.11		A	0.8	

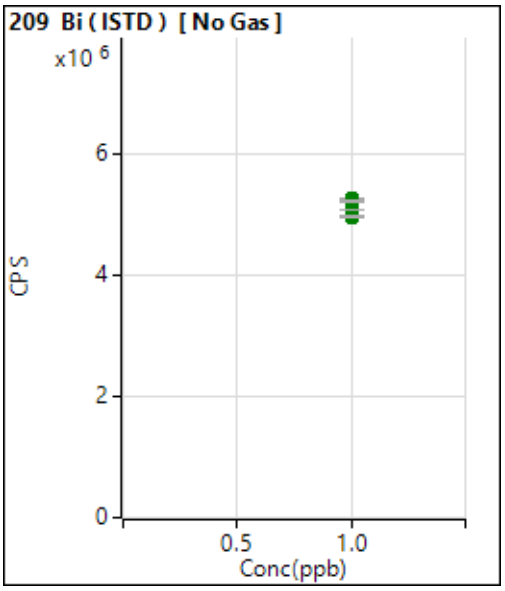


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177618.06		A	1.0	
2	☐	1.000		1193812.90		A	1.4	
3	☐	1.000		1174066.93		A	0.9	
4	☐	1.000		1156621.96		A	0.7	
5	☐	1.000		1138105.48		A	0.7	
6	☐	1.000		1109115.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5301074.33		A	0.7	
2	☐	1.000		5309002.67		A	0.4	
3	☐	1.000		5261197.90		A	0.4	
4	☐	1.000		5237070.79		A	0.0	
5	☐	1.000		5036649.90		A	0.1	
6	☐	1.000		4903058.98		A	0.8	

Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5272521.38		A	0.1	
2	☐	1.000		5216993.47		A	0.7	
3	☐	1.000		5253118.88		A	0.0	
4	☐	1.000		5239227.94		A	0.6	
5	☐	1.000		5086380.97		A	0.1	
6	☐	1.000		4969671.91		A	0.5	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	021LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:06:42-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.887	1.887	0.85	142538	0.00	2	
Be	9	1	No Gas	1.906	1.906	1.63	13448	0.01	2	
V	51	2	He	1.710	1.710	2.23	22824	0.01	2	
Cr	52	2	He	1.687	1.687	0.55	32342	0.01	2	
Fe	56	2	He	194.077	194.077	2.51	2222891	0.01	200	
Se	78	2	He	1.986	1.986	7.88	504	0.39	2	
As	75	2	He	1.915	1.915	4.15	3956	0.05	2	
Ca	44	2	He	194.320	194.320	3.64	14651	1.33	200	
Na	23	2	He	157.703	157.703	1.67	568895	0.03	200	
Mg	24	2	He	191.882	191.882	2.24	216658	0.09	200	
K	39	2	He	193.016	193.016	2.99	370252	0.05	200	
Mn	55	2	He	1.883	1.883	8.32	19117	0.01	2	
Co	59	2	He	1.966	1.966	2.40	37003	0.01	2	
Ni	60	2	He	1.952	1.952	3.91	10508	0.02	2	
Cu	63	2	He	2.007	2.007	1.89	26402	0.01	2	
Zn	66	2	He	2.612	2.612	9.01	7652	0.03	2	NewName Main CR1 Failed
Al	27	2	He	1.254	1.254	18.09	2937	0.04	2	NewName Main CR1 Failed
B	11	1	No Gas	9.336	9.336	4.28	55461	0.02	10	
Al	27	1	No Gas	1.389	1.389	5.55	116930	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	8.836	8.836	5.52	549379	0.00	10	
Ag	107	1	No Gas	2.026	2.026	4.17	73324	0.00	2	
Cd	111	1	No Gas	2.020	2.020	3.35	14430	0.01	2	
Sr	88	1	No Gas	1.886	1.886	3.15	136055	0.00	2	
Mo	95	1	No Gas	1.947	1.947	3.45	26513	0.01	2	
Sn	118	1	No Gas	1.835	1.835	1.63	50463	0.00	2	
Sb	121	1	No Gas	1.995	1.995	3.66	63717	0.00	2	
Ba	137	1	No Gas	1.930	1.930	2.25	24343	0.01	2	
Tl	205	1	No Gas	1.809	1.809	1.21	131529	0.00	2	
Tl	203	1	No Gas	1.866	1.866	3.57	55389	0.00	2	
Pb	208	1	No Gas	1.952	1.952	2.88	222876	0.00	2	
U	238	1	No Gas	1.856	1.856	1.19	226402	0.00	2	
Ca	43	2	He	182.428	182.428	16.34	780	23.39	200	
Sb	121	2	He	1.906	1.906	0.73	27212	0.01	2	
Ti	47	2	He	2.029	2.029	15.75	837	0.24	200	
Cu	63	1	No Gas	1.982	1.982	0.75	58226	0.00	2	
Se	82	1	No Gas	1.747	1.747	4.52	1177	0.15	2	
Zr	90	1	No Gas	1.729	1.729	3.32	77056	0.00	2	
Zr	90	2	He	1.709	1.709	2.84	31551	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1659167	0.24	1709896	97.03	70	120	
Ge	72	2	He	1160167	0.44	1177618	98.52	70	120	
Ge	72	1	No Gas	4105531	0.39	4162003	98.64	70	120	
In	115	1	No Gas	5193231	0.27	5301074	97.97	70	120	
Bi	209	1	No Gas	5210604	0.56	5272521	98.83	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	022LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:09:06-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.775	4.775	1.69	214284	0.00	5	
Be	9	1	No Gas	4.719	4.719	1.64	31994	0.01	5	
V	51	2	He	4.896	4.896	1.35	55846	0.01	5	
Cr	52	2	He	4.941	4.941	0.90	70492	0.01	5	
Fe	56	2	He	502.613	502.613	2.06	5674368	0.01	500	
Se	78	2	He	5.089	5.089	5.84	1045	0.49	5	
As	75	2	He	5.038	5.038	2.24	9808	0.05	5	
Ca	44	2	He	494.073	494.073	2.20	35081	1.41	500	
Na	23	2	He	470.021	470.021	1.19	1129543	0.04	500	
Mg	24	2	He	499.465	499.465	1.18	558104	0.09	500	
K	39	2	He	498.153	498.153	1.21	768130	0.06	500	
Mn	55	2	He	4.975	4.975	4.62	47512	0.01	5	
Co	59	2	He	5.076	5.076	2.37	93687	0.01	5	
Ni	60	2	He	5.212	5.212	4.45	25738	0.02	5	
Cu	63	2	He	5.203	5.203	3.15	66266	0.01	5	
Zn	66	2	He	5.036	5.036	2.39	13303	0.04	5	
Al	27	2	He	5.320	5.320	8.59	5845	0.09	5	
B	11	1	No Gas	23.623	23.623	1.48	108635	0.02	25	
Al	27	1	No Gas	5.231	5.231	3.31	220662	0.00	5	
Si	28	1	No Gas	24.655	24.655	4.61	752069	0.00	25	
Ag	107	1	No Gas	5.047	5.047	2.99	180919	0.00	5	
Cd	111	1	No Gas	4.892	4.892	3.40	34801	0.01	5	
Sr	88	1	No Gas	4.767	4.767	1.92	337352	0.00	5	
Mo	95	1	No Gas	4.856	4.856	2.74	65713	0.01	5	
Sn	118	1	No Gas	4.878	4.878	1.52	120332	0.00	5	
Sb	121	1	No Gas	4.991	4.991	2.36	156027	0.00	5	
Ba	137	1	No Gas	4.932	4.932	2.85	59763	0.01	5	
Tl	205	1	No Gas	4.559	4.559	2.03	326752	0.00	5	
Tl	203	1	No Gas	4.729	4.729	1.24	138499	0.00	5	
Pb	208	1	No Gas	4.928	4.928	1.49	552988	0.00	5	
U	238	1	No Gas	4.644	4.644	1.29	561011	0.00	5	
Ca	43	2	He	535.203	535.203	6.36	2180	24.55	500	
Sb	121	2	He	4.941	4.941	0.57	69593	0.01	5	
Ti	47	2	He	4.755	4.755	5.08	1920	0.25	5	
Cu	63	1	No Gas	5.092	5.092	1.01	136569	0.00	5	
Se	82	1	No Gas	5.062	5.062	6.57	2587	0.20	5	
Zr	90	1	No Gas	4.429	4.429	2.49	194640	0.00	5	
Zr	90	2	He	4.610	4.610	0.99	81489	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1620047	0.35	1709896	94.75	70	120	

Sample Report

Ge	72	2	He	1157270	0.24	1177618	98.27	70	120	
Ge	72	1	No Gas	4068466	0.41	4162003	97.75	70	120	
In	115	1	No Gas	5205280	0.29	5301074	98.19	70	120	
Bi	209	1	No Gas	5236127	0.60	5272521	99.31	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	024_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:13:55-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.041	-111.0	90225	1.0	0.5	
Be	9	1	No Gas	0.001	982.5	363	22.1	0.5	
V	51	2	He	-0.077	-9.3	4258	2.9	2.5	
Cr	52	2	He	-0.044	-92.4	12022	3.6	2.5	
Fe	56	2	He	4.131	3.7	89640	1.5	100	
Se	78	2	He	0.118	61.1	178	5.8	1	
As	75	2	He	0.013	62.5	379	5.4	2.5	
Ca	44	2	He	69.218	3.3	6128	2.0	100	
Na	23	2	He	-31.072	-6.1	229825	0.4	100	
Mg	24	2	He	3.369	11.0	6555	5.0	100	
K	39	2	He	-2.307	-48.0	115081	1.0	100	
Mn	55	2	He	0.167	7.5	3307	4.1	2.5	
Co	59	2	He	0.013	23.5	1267	3.9	2.5	
Ni	60	2	He	0.200	13.1	2307	6.6	2.5	
Cu	63	2	He	0.085	23.1	2347	9.7	1	
Zn	66	2	He	0.887	13.1	3631	8.2	2.5	
Al	27	2	He	2.696	4.4	4001	1.1	5	
B	11	1	No Gas	0.047	376.8	18984	4.1	0.5	
Al	27	1	No Gas	2.790	7.5	154285	3.1	5	
Si	28	1	No Gas	5.246	13.2	498127	2.3	10	
Ag	107	1	No Gas	0.010	45.0	1817	9.7	2.5	
Cd	111	1	No Gas	-0.008	-82.8	99	49.4	1	
Sr	88	1	No Gas	0.176	3.1	17091	2.3	2.5	
Mo	95	1	No Gas	0.008	95.5	487	21.6	2.5	
Sn	118	1	No Gas	-0.027	-61.7	7879	5.3	5	
Sb	121	1	No Gas	0.016	26.4	1783	7.7	2.5	
Ba	137	1	No Gas	0.226	6.3	4324	4.4	2.5	
Tl	205	1	No Gas	0.005	92.0	4568	7.5	1	
Tl	203	1	No Gas	0.007	158.4	1837	16.5	1	
Pb	208	1	No Gas	0.006	26.3	8805	1.9	2.5	
U	238	1	No Gas	0.006	88.6	6068	10.4	2.5	
Ca	43	2	He	74.928	26.0	353	21.6	100	
Sb	121	2	He	0.015	26.1	703	6.4	2.5	
Ti	47	2	He	0.001	6705.0	27	57.3	2.5	
Se	82	1	No Gas	0.130	131.5	473	14.8	1	
Zr	90	1	No Gas	0.042	15.1	3894	6.9	2.5	
Zr	90	2	He	0.045	22.8	2807	5.1	2.5	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1641365	0.49	1709896	95.99	70	120	
Ge	72	2	He	1168101	1.28	1177618	99.19	70	120	
Ge	72	1	No Gas	4074953	0.86	4162003	97.91	70	120	
In	115	1	No Gas	5195093	0.85	5301074	98.00	70	120	
Bi	209	1	No Gas	5218548	0.55	5272521	98.98	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	026ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:18:47-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.392	15.0	94346	2.0	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.030	21.0	520	7.3	0	ICSA Main CR1 Failed
V	51	2	He	0.211	8.8	7094	1.9	0	ICSA Main CR1 Failed
Cr	52	2	He	0.808	5.0	21584	3.1	0	ICSA Main CR1 Failed
Fe	56	2	He	96527.332	2.3	1064156384	1.9	0	
Se	78	2	He	0.024	608.9	157	14.9	0	ICSA Main CR1 Failed
As	75	2	He	0.362	6.2	1013	4.7	0	ICSA Main CR1 Failed
Ca	44	2	He	98037.236	3.6	6586553	3.2	0	
Na	23	2	He	98284.266	2.9	174290804	2.2	0	
Mg	24	2	He	97064.818	2.0	106182292	1.5	0	
K	39	2	He	97964.607	2.3	126081198	1.7	0	
Mn	55	2	He	1.726	2.2	17334	1.1	0	ICSA Main CR1 Failed
Co	59	2	He	0.956	2.1	18172	1.9	0	ICSA Main CR1 Failed
Ni	60	2	He	1.007	4.3	5961	3.3	0	ICSA Main CR1 Failed
Cu	63	2	He	0.690	2.3	9730	1.4	0	ICSA Main CR1 Failed
Zn	66	2	He	3.182	5.2	8820	3.6	0	ICSA Main CR1 Failed
Al	27	2	He	98851.983	2.1	69717736	1.6	0	
B	11	1	No Gas	1.499	4.0	22830	0.9	0	
Al	27	1	No Gas	95337.832	2.8	2489547696	1.5	0	
Si	28	1	No Gas	37.439	3.7	880967	3.0	0	
Ag	107	1	No Gas	0.046	12.3	2797	6.2	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.793	4.4	5271	4.3	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.886	2.8	60810	2.4	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1990.188	1.1	24442532	0.9	0	
Sn	118	1	No Gas	0.124	14.7	10361	3.6	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.076	3.0	3461	1.8	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.556	0.9	7506	0.9	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.008	106.5	4271	12.5	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.012	47.0	1770	7.8	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.863	4.4	92477	3.9	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.017	37.5	6602	10.1	0	ICSA Main CR1 Failed
Ca	43	2	He	94948.389	2.7	371446	2.4	0	
Sb	121	2	He	0.072	2.2	1473	2.1	0	ICSA Main CR1 Failed
Ti	47	2	He	1948.235	3.2	763310	2.9	0	
Se	82	1	No Gas	0.277	79.5	513	17.6	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1523893	0.48	1709896	89.12	70	120	
Ge	72	2	He	1138644	0.94	1177618	96.69	70	120	
Ge	72	1	No Gas	3896285	1.47	4162003	93.62	70	120	
In	115	1	No Gas	4751392	0.36	5301074	89.63	70	120	
Bi	209	1	No Gas	4678059	0.43	5272521	88.73	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	027ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:21:20-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	94.609	1.975	2437566	0.95	100	94.6	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	87.550	2.538	561388	1.58	100	87.5	80	120	
V	51	2	He	102.288	3.408	1050465	2.99	100	102.3	80	120	
Cr	52	2	He	101.063	3.562	1181532	3.12	100	101.1	80	120	
Fe	56	2	He	109062.487	2.602	1203331422	2.21	100	109062.5	80	120	ICSB Main CR1 Failed
Se	78	2	He	102.637	3.126	17803	2.68	100	102.6	80	120	
As	75	2	He	103.256	2.500	191219	2.08	100	103.3	80	120	
Ca	44	2	He	109984.747	1.562	7395528	1.15	100	109984.7	80	120	
Na	23	2	He	110850.587	2.517	196709744	2.10	100	110850.6	80	120	ICSB Main CR1 Failed
Mg	24	2	He	109003.593	2.869	119338295	2.47	100	109003.6	80	120	
K	39	2	He	111247.305	1.749	143282798	1.35	100	111247.3	80	120	ICSB Main CR1 Failed
Mn	55	2	He	100.356	3.314	910853	2.97	100	100.4	80	120	
Co	59	2	He	99.027	2.236	1781195	1.88	100	99.0	80	120	
Ni	60	2	He	95.961	2.911	443502	2.49	100	96.0	80	120	
Cu	63	2	He	96.236	2.654	1185047	2.26	100	96.2	80	120	
Zn	66	2	He	100.191	2.889	232306	2.45	100	100.2	80	120	
Al	27	2	He	101149.667	2.549	71396764	2.15	100	101149.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	478.279	1.542	1760748	0.57	100	478.3	80	120	
Al	27	1	No Gas	94900.610	2.494	2521311962	1.32	100	94900.6	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	537.215	2.177	7285419	0.88	100	537.2	80	120	
Ag	107	1	No Gas	98.922	0.442	3305458	0.22	100	98.9	80	120	
Cd	111	1	No Gas	98.955	1.982	658338	1.58	100	99.0	80	120	
Sr	88	1	No Gas	103.311	1.167	6774612	0.79	100	103.3	80	120	
Mo	95	1	No Gas	2078.382	0.658	26267556	0.37	100	2078.4	80	120	
Sn	118	1	No Gas	101.851	1.709	2200867	1.49	100	101.9	80	120	
Sb	121	1	No Gas	100.539	2.485	3038067	1.34	100	100.5	80	120	
Ba	137	1	No Gas	102.763	2.469	1138460	2.15	100	102.8	80	120	
Tl	205	1	No Gas	101.782	2.256	6532668	1.08	100	101.8	80	120	
Tl	203	1	No Gas	101.236	3.275	2657525	2.06	100	101.2	80	120	
Pb	208	1	No Gas	103.619	1.389	10395996	0.48	100	103.6	80	120	
U	238	1	No Gas	103.084	1.543	11189888	0.80	100	103.1	80	120	
Ca	43	2	He	105193.891	1.222	411866	0.80	100	105193.9	80	120	
Sb	121	2	He	99.772	3.009	1374442	2.60	100	99.8	80	120	
Ti	47	2	He	2071.419	2.344	812246	1.93	100	2071.4	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	96.183	2.773	2383092	1.60	100	96.2	80	120	
Se	82	1	No Gas	102.421	0.847	43169	0.48	100	102.4	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1548509	0.95	1709896	90.56	70	120	
Ge	72	2	He	1139551	0.42	1177618	96.77	70	120	
Ge	72	1	No Gas	3963916	1.16	4162003	95.24	70	120	
In	115	1	No Gas	4889487	0.42	5301074	92.24	70	120	
Bi	209	1	No Gas	4748828	1.32	5272521	90.07	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	116CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:47:08-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	91003	0.00
Be	9	1	No Gas	230	12.29
V	51	2	He	3789	0.09
Cr	52	2	He	12990	0.01
Fe	56	2	He	20476	0.02
Se	78	2	He	153	2.60
As	75	2	He	346	0.32
Ca	44	2	He	920	0.82
Na	23	2	He	321941	0.00
Mg	24	2	He	893	0.52
K	39	2	He	124830	0.00
Mn	55	2	He	833	0.72
Co	59	2	He	803	0.24
Ni	60	2	He	423	1.96
Cu	63	2	He	757	1.57
Zn	66	2	He	943	0.96
Al	27	2	He	1797	0.70
B	11	1	No Gas	11521	0.02
Al	27	1	No Gas	64770	0.00
Si	28	1	No Gas	388377	0.00
Ag	107	1	No Gas	1130	0.54
Cd	111	1	No Gas	2	103340.62
Sr	88	1	No Gas	3444	0.10
Mo	95	1	No Gas	190	7.33
Sn	118	1	No Gas	6482	0.06
Sb	121	1	No Gas	597	0.90
Ba	137	1	No Gas	770	1.27
Tl	205	1	No Gas	2734	0.30
Tl	203	1	No Gas	1063	0.45
Pb	208	1	No Gas	5471	0.06
U	238	1	No Gas	3841	0.09
Ca	43	2	He	43	134.02
Sb	121	2	He	237	11.62
Ti	47	2	He	17	415.69
Cu	63	1	No Gas	7002	0.05

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1676119	0.51
Ge	72	2	He	1163381	0.64
Ge	72	1	No Gas	4078799	0.57
In	115	1	No Gas	5144583	0.25

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	4944446	1.35

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	117CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:49:38-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	11772	0.02
V	51	2	He	23212	0.01
Cr	52	2	He	35322	0.00
Fe	56	2	He	2155481	0.00
Se	78	2	He	458	2.33
As	75	2	He	3747	0.04
Ca	44	2	He	14151	0.05
Na	23	2	He	654924	0.00
Mg	24	2	He	214489	0.00
K	39	2	He	369135	0.00
Mn	55	2	He	17908	0.02
Co	59	2	He	34687	0.01
Ni	60	2	He	9604	0.09
Cu	63	2	He	25267	0.01
Zn	66	2	He	6495	0.08
Al	27	2	He	3801	0.16
B	11	1	No Gas	47375	0.00
Al	27	1	No Gas	140429	0.00
Si	28	1	No Gas	529644	0.00
Ag	107	1	No Gas	69617	0.00
Cd	111	1	No Gas	13752	0.02
Sr	88	1	No Gas	131827	0.00
Mo	95	1	No Gas	25044	0.02
Sn	118	1	No Gas	50781	0.00
Sb	121	1	No Gas	60331	0.00
Ba	137	1	No Gas	24847	0.01
Tl	205	1	No Gas	135292	0.00
Tl	203	1	No Gas	56952	0.00
Pb	208	1	No Gas	202279	0.00
U	238	1	No Gas	199597	0.00
Ca	43	2	He	797	0.64
Sb	121	2	He	25084	0.01
Cu	63	1	No Gas	57507	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1639782	0.41	1676119	97.83	70	120	
Ge	72	2	He	1169710	0.61	1163381	100.54	70	120	
Ge	72	1	No Gas	4098266	0.68	4078799	100.48	70	120	

Calibration Standard Report

In	115	1	No Gas	5137782	0.59	5144583	99.87	70	120	
Bi	209	1	No Gas	4967617	0.97	4944446	100.47	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	118CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:52:08-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	29162	0.00
V	51	2	He	51770	0.01
Cr	52	2	He	68185	0.01
Fe	56	2	He	5252887	0.00
Se	78	2	He	984	0.58
As	75	2	He	9142	0.03
Ca	44	2	He	32919	0.01
Na	23	2	He	1164117	0.00
Mg	24	2	He	529998	0.00
K	39	2	He	736485	0.00
Mn	55	2	He	43311	0.01
Co	59	2	He	87152	0.00
Ni	60	2	He	22676	0.02
Cu	63	2	He	59284	0.00
Zn	66	2	He	12589	0.04
Al	27	2	He	5088	0.10
B	11	1	No Gas	97622	0.00
Al	27	1	No Gas	190062	0.00
Si	28	1	No Gas	713460	0.00
Ag	107	1	No Gas	170821	0.00
Cd	111	1	No Gas	33166	0.01
Sr	88	1	No Gas	320927	0.00
Mo	95	1	No Gas	61895	0.00
Sn	118	1	No Gas	113983	0.00
Sb	121	1	No Gas	147473	0.00
Ba	137	1	No Gas	54450	0.01
Tl	205	1	No Gas	349044	0.00
Tl	203	1	No Gas	146964	0.00
Pb	208	1	No Gas	493261	0.00
U	238	1	No Gas	494594	0.00
Ca	43	2	He	1787	0.37
Sb	121	2	He	61523	0.01
Cu	63	1	No Gas	128742	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1617927	0.35	1676119	96.53	70	120	
Ge	72	2	He	1158722	0.74	1163381	99.60	70	120	
Ge	72	1	No Gas	4067730	0.67	4078799	99.73	70	120	

Calibration Standard Report

In	115	1	No Gas	5148853	1.07	5144583	100.08	70	120	
Bi	209	1	No Gas	4977585	0.11	4944446	100.67	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	119CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:54:39-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	57352	0.01
V	51	2	He	102740	0.00
Cr	52	2	He	126207	0.00
Fe	56	2	He	10743920	0.00
Se	78	2	He	1679	0.09
As	75	2	He	17827	0.02
Ca	44	2	He	65210	0.00
Na	23	2	He	2070850	0.00
Mg	24	2	He	1096589	0.00
K	39	2	He	1377702	0.00
Mn	55	2	He	87315	0.00
Co	59	2	He	177025	0.00
Ni	60	2	He	45806	0.01
Cu	63	2	He	122701	0.00
Zn	66	2	He	23534	0.01
Al	27	2	He	8603	0.05
B	11	1	No Gas	183989	0.00
Al	27	1	No Gas	320636	0.00
Si	28	1	No Gas	991058	0.00
Ag	107	1	No Gas	341807	0.00
Cd	111	1	No Gas	66141	0.00
Sr	88	1	No Gas	641792	0.00
Mo	95	1	No Gas	123765	0.00
Sn	118	1	No Gas	224037	0.00
Sb	121	1	No Gas	292506	0.00
Ba	137	1	No Gas	110132	0.00
Tl	205	1	No Gas	721277	0.00
Tl	203	1	No Gas	303208	0.00
Pb	208	1	No Gas	999973	0.00
U	238	1	No Gas	1008708	0.00
Ca	43	2	He	3877	0.11
Sb	121	2	He	125278	0.00
Cu	63	1	No Gas	247851	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1575065	0.57	1676119	93.97	70	120	
Ge	72	2	He	1138781	1.09	1163381	97.89	70	120	
Ge	72	1	No Gas	4031888	0.21	4078799	98.85	70	120	

Calibration Standard Report

In	115	1	No Gas	5123282	0.75	5144583	99.59	70	120	
Bi	209	1	No Gas	5040043	0.30	4944446	101.93	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	120CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:57:08-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	554806	0.00
V	51	2	He	963216	0.00
Cr	52	2	He	1105734	0.00
Fe	56	2	He	104877322	0.00
Se	78	2	He	15483	0.02
As	75	2	He	172930	0.00
Ca	44	2	He	634861	0.00
Na	23	2	He	17609042	0.00
Mg	24	2	He	10690653	0.00
K	39	2	He	12412694	0.00
Mn	55	2	He	840741	0.00
Co	59	2	He	1710770	0.00
Ni	60	2	He	440247	0.00
Cu	63	2	He	1176878	0.00
Zn	66	2	He	220720	0.00
Al	27	2	He	67572	0.00
B	11	1	No Gas	1682651	0.00
Al	27	1	No Gas	2479820	0.00
Si	28	1	No Gas	6255444	0.00
Ag	107	1	No Gas	3234626	0.00
Cd	111	1	No Gas	637240	0.00
Sr	88	1	No Gas	6355008	0.00
Mo	95	1	No Gas	1205195	0.00
Sn	118	1	No Gas	2107881	0.00
Sb	121	1	No Gas	2790507	0.00
Ba	137	1	No Gas	1062548	0.00
Tl	205	1	No Gas	7269242	0.00
Tl	203	1	No Gas	2957485	0.00
Pb	208	1	No Gas	9889606	0.00
U	238	1	No Gas	10247645	0.00
Ca	43	2	He	37457	0.00
Sb	121	2	He	1206188	0.00
Cu	63	1	No Gas	2291888	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1497358	0.53	1676119	89.33	70	120	
Ge	72	2	He	1121783	0.68	1163381	96.42	70	120	
Ge	72	1	No Gas	3905522	0.37	4078799	95.75	70	120	

Calibration Standard Report

In	115	1	No Gas	4999630	0.60	5144583	97.18	70	120	
Bi	209	1	No Gas	4891837	1.21	4944446	98.94	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	121CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:59:38-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1090310	0.00
V	51	2	He	1920442	0.00
Cr	52	2	He	2185686	0.00
Fe	56	2	He	205654770	0.00
Se	78	2	He	30343	0.01
As	75	2	He	341031	0.00
Ca	44	2	He	1256934	0.00
Na	23	2	He	34254963	0.00
Mg	24	2	He	20805941	0.00
K	39	2	He	24012158	0.00
Mn	55	2	He	1665308	0.00
Co	59	2	He	3347949	0.00
Ni	60	2	He	858609	0.00
Cu	63	2	He	2312817	0.00
Zn	66	2	He	425720	0.00
Al	27	2	He	129111	0.00
B	11	1	No Gas	3294656	0.00
Al	27	1	No Gas	4792184	0.00
Si	28	1	No Gas	11798675	0.00
Ag	107	1	No Gas	6301259	0.00
Cd	111	1	No Gas	1261911	0.00
Sr	88	1	No Gas	12478417	0.00
Mo	95	1	No Gas	2406098	0.00
Sn	118	1	No Gas	4131093	0.00
Sb	121	1	No Gas	5562198	0.00
Ba	137	1	No Gas	2098758	0.00
Tl	205	1	No Gas	14476419	0.00
Tl	203	1	No Gas	5896563	0.00
Pb	208	1	No Gas	19833060	0.00
U	238	1	No Gas	20877187	0.00
Ca	43	2	He	73611	0.00
Sb	121	2	He	2432431	0.00
Cu	63	1	No Gas	4471531	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1429491	0.91	1676119	85.29	70	120	
Ge	72	2	He	1098050	0.73	1163381	94.38	70	120	
Ge	72	1	No Gas	3855346	0.92	4078799	94.52	70	120	

Calibration Standard Report

In	115	1	No Gas	4853657	0.21	5144583	94.35	70	120	
Bi	209	1	No Gas	4884541	0.75	4944446	98.79	70	120	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	125LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:11:04-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.017	2.017	2.12	127494	0.00	2	
Be	9	1	No Gas	2.004	2.004	2.19	11533	0.02	2	
V	51	2	He	1.927	1.927	0.83	22459	0.01	2	
Cr	52	2	He	1.900	1.900	1.50	33574	0.01	2	
Fe	56	2	He	200.958	200.958	1.23	2131452	0.01	200	
Se	78	2	He	2.188	2.188	2.87	485	0.45	2	
As	75	2	He	2.003	2.003	1.68	3816	0.05	2	
Ca	44	2	He	201.333	201.333	2.68	13784	1.46	200	
Na	23	2	He	138.740	138.740	1.43	551348	0.03	200	NewName Main CR1 Failed
Mg	24	2	He	197.791	197.791	1.47	211467	0.09	200	
K	39	2	He	194.890	194.890	1.62	358851	0.05	200	
Mn	55	2	He	1.977	1.977	3.10	17588	0.01	2	
Co	59	2	He	2.000	2.000	1.59	35005	0.01	2	
Ni	60	2	He	2.113	2.113	2.54	9684	0.02	2	
Cu	63	2	He	2.033	2.033	2.65	24743	0.01	2	
Zn	66	2	He	2.507	2.507	1.29	6368	0.04	2	
Al	27	2	He	2.806	2.806	11.29	3567	0.08	2	NewName Main CR1 Failed
B	11	1	No Gas	12.495	12.495	2.25	53077	0.02	10	
Al	27	1	No Gas	2.932	2.932	4.41	134448	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	11.760	11.760	11.65	516388	0.00	10	
Ag	107	1	No Gas	2.018	2.018	1.88	67708	0.00	2	
Cd	111	1	No Gas	2.026	2.026	2.35	13349	0.02	2	
Sr	88	1	No Gas	1.947	1.947	1.36	130401	0.00	2	
Mo	95	1	No Gas	1.910	1.910	2.16	24129	0.01	2	
Sn	118	1	No Gas	2.093	2.093	2.53	51554	0.00	2	
Sb	121	1	No Gas	2.112	2.112	2.68	60886	0.00	2	
Ba	137	1	No Gas	2.223	2.223	2.57	25114	0.01	2	
Tl	205	1	No Gas	1.801	1.801	1.43	139174	0.00	2	
Tl	203	1	No Gas	1.858	1.858	0.94	58375	0.00	2	
Pb	208	1	No Gas	1.969	1.969	2.01	209612	0.00	2	
U	238	1	No Gas	1.878	1.878	1.25	208088	0.00	2	
Ca	43	2	He	193.860	193.860	11.45	770	25.18	200	
Sb	121	2	He	2.094	2.094	3.93	26113	0.01	2	
Ti	47	2	He	1.957	1.957	7.48	743	0.26	200	
Cu	63	1	No Gas	2.029	2.029	1.78	53501	0.00	2	
Se	82	1	No Gas	1.939	1.939	14.73	1177	0.16	2	
Zr	90	1	No Gas	1.648	1.648	2.26	68476	0.00	2	
Zr	90	2	He	1.691	1.691	0.11	28761	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1526050	0.49	1676119	91.05	70	120	
Ge	72	2	He	1122637	0.21	1163381	96.50	70	120	
Ge	72	1	No Gas	3966371	0.78	4078799	97.24	70	120	
In	115	1	No Gas	5087287	0.59	5144583	98.89	70	120	
Bi	209	1	No Gas	5106980	1.07	4944446	103.29	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	126LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:13:29-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	5.062	5.062	1.64	192457	0.00	5	
Be	9	1	No Gas	4.944	4.944	0.69	27796	0.02	5	
V	51	2	He	4.907	4.907	3.53	51910	0.01	5	
Cr	52	2	He	4.935	4.935	3.05	67685	0.01	5	
Fe	56	2	He	500.046	500.046	3.76	5311641	0.01	500	
Se	78	2	He	4.967	4.967	2.99	921	0.54	5	
As	75	2	He	4.972	4.972	1.83	9044	0.05	5	
Ca	44	2	He	501.470	501.470	2.79	33247	1.51	500	
Na	23	2	He	434.491	434.491	4.79	1071934	0.04	500	
Mg	24	2	He	493.228	493.228	3.82	529770	0.09	500	
K	39	2	He	489.295	489.295	3.79	724104	0.07	500	
Mn	55	2	He	4.935	4.935	3.90	42991	0.01	5	
Co	59	2	He	4.977	4.977	3.78	86554	0.01	5	
Ni	60	2	He	5.115	5.115	3.49	23030	0.02	5	
Cu	63	2	He	5.065	5.065	2.15	60985	0.01	5	
Zn	66	2	He	5.362	5.362	5.60	12676	0.04	5	
Al	27	2	He	5.152	5.152	11.41	5134	0.10	5	
B	11	1	No Gas	26.480	26.480	1.48	99487	0.03	25	
Al	27	1	No Gas	4.894	4.894	1.60	181312	0.00	5	
Si	28	1	No Gas	26.094	26.094	1.49	681860	0.00	25	
Ag	107	1	No Gas	5.113	5.113	2.46	168860	0.00	5	
Cd	111	1	No Gas	5.018	5.018	0.96	32871	0.02	5	
Sr	88	1	No Gas	4.809	4.809	1.52	315266	0.00	5	
Mo	95	1	No Gas	4.922	4.922	2.15	61557	0.01	5	
Sn	118	1	No Gas	5.084	5.084	1.53	115422	0.00	5	
Sb	121	1	No Gas	5.252	5.252	0.31	149728	0.00	5	
Ba	137	1	No Gas	4.988	4.988	1.46	55113	0.01	5	
Tl	205	1	No Gas	4.756	4.756	0.69	361715	0.00	5	
Tl	203	1	No Gas	4.922	4.922	0.94	152362	0.00	5	
Pb	208	1	No Gas	4.960	4.960	0.99	517621	0.00	5	
U	238	1	No Gas	4.717	4.717	1.28	514916	0.00	5	
Ca	43	2	He	467.477	467.477	8.35	1810	25.83	500	
Sb	121	2	He	5.061	5.061	3.36	63224	0.01	5	
Ti	47	2	He	4.584	4.584	15.47	1730	0.26	5	
Cu	63	1	No Gas	5.127	5.127	0.38	124150	0.00	5	
Se	82	1	No Gas	5.178	5.178	12.53	2414	0.21	5	
Zr	90	1	No Gas	4.388	4.388	1.44	179140	0.00	5	
Zr	90	2	He	4.428	4.428	4.42	73017	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1507153	0.32	1676119	89.92	70	120	

Sample Report

Ge	72	2	He	1131031	1.52	1163381	97.22	70	120	
Ge	72	1	No Gas	3944895	0.51	4078799	96.72	70	120	
In	115	1	No Gas	5059192	0.84	5144583	98.34	70	120	
Bi	209	1	No Gas	5090535	0.59	4944446	102.95	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	127_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:15:52-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.039	106.9	84314	1.4	0.5	
Be	9	1	No Gas	0.005	58.7	242	7.3	0.5	
V	51	2	He	-0.020	-35.4	3479	1.9	2.5	
Cr	52	2	He	-0.002	-2396.6	12583	5.2	2.5	
Fe	56	2	He	2.989	3.1	51483	2.0	100	
Se	78	2	He	-0.027	-597.7	145	17.5	1	
As	75	2	He	-0.012	-141.5	314	9.6	2.5	
Ca	44	2	He	42.639	7.5	3641	5.6	100	
Na	23	2	He	-56.344	-2.0	214242	1.0	100	
Mg	24	2	He	1.985	8.5	2994	5.9	100	
K	39	2	He	-3.774	-40.0	116543	1.7	100	
Mn	55	2	He	0.146	12.2	2057	7.2	2.5	
Co	59	2	He	0.005	130.1	860	12.3	2.5	
Ni	60	2	He	0.130	10.8	983	6.1	2.5	
Cu	63	2	He	0.066	4.2	1520	2.4	1	
Zn	66	2	He	0.942	7.3	2980	5.2	2.5	
Al	27	2	He	2.058	9.3	3097	4.2	5	
B	11	1	No Gas	1.967	5.1	17314	1.8	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	2.118	5.9	113930	2.5	5	
Si	28	1	No Gas	4.725	6.6	430864	1.0	10	
Ag	107	1	No Gas	-0.003	-164.7	1013	16.5	2.5	
Cd	111	1	No Gas	-0.001	-212.4	-6	-286.3	1	
Sr	88	1	No Gas	0.100	11.6	9904	7.4	2.5	
Mo	95	1	No Gas	0.012	6.0	340	2.9	2.5	
Sn	118	1	No Gas	0.041	50.9	7272	6.3	5	
Sb	121	1	No Gas	0.033	7.3	1510	4.3	2.5	
Ba	137	1	No Gas	0.221	14.3	3174	11.1	2.5	
Tl	205	1	No Gas	0.002	178.1	2990	10.2	1	
Tl	203	1	No Gas	0.006	65.1	1270	8.9	1	
Pb	208	1	No Gas	0.006	50.5	6271	4.7	2.5	
U	238	1	No Gas	0.003	75.2	4261	5.6	2.5	
Ca	43	2	He	30.325	13.1	157	9.8	100	
Sb	121	2	He	0.031	17.4	617	10.8	2.5	
Ti	47	2	He	-0.008	-198.8	13	43.3	2.5	
Se	82	1	No Gas	0.055	104.9	447	5.2	1	
Zr	90	1	No Gas	0.086	10.3	4784	7.6	2.5	
Zr	90	2	He	0.070	32.5	2864	12.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1536705	0.30	1676119	91.68	70	120	
Ge	72	2	He	1129419	0.19	1163381	97.08	70	120	
Ge	72	1	No Gas	3942786	0.19	4078799	96.67	70	120	
In	115	1	No Gas	5077277	0.28	5144583	98.69	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	5083205	0.55	4944446	102.81	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	128_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:18:16-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	99.498	2.460	2177117	2.37	100	99.5	90	110	
Be	9	1	No Gas	99.663	2.658	536902	2.66	100	99.7	90	110	
V	51	2	He	99.833	1.632	974654	1.60	100	99.8	90	110	
Cr	52	2	He	100.212	2.031	1118697	1.80	100	100.2	90	110	
Fe	56	2	He	10077.376	0.687	105560958	1.15	10000	100.8	90	110	
Se	78	2	He	101.341	2.780	15721	3.16	100	101.3	90	110	
As	75	2	He	100.233	1.379	174028	1.62	100	100.2	90	110	
Ca	44	2	He	9861.725	1.168	630454	1.62	10000	98.6	90	110	
Na	23	2	He	10020.113	0.647	17633239	1.51	10000	100.2	90	110	
Mg	24	2	He	10086.049	0.891	10704612	1.23	10000	100.9	90	110	
K	39	2	He	10033.475	1.427	12352314	1.74	10000	100.3	90	110	
Mn	55	2	He	99.976	1.300	846637	2.27	100	100.0	90	110	
Co	59	2	He	100.957	1.037	1722475	0.87	100	101.0	90	110	
Ni	60	2	He	101.174	1.239	443088	1.28	100	101.2	90	110	
Cu	63	2	He	100.887	1.441	1188162	1.13	100	100.9	90	110	
Zn	66	2	He	102.229	2.548	222732	1.77	100	102.2	90	110	
Al	27	2	He	101.700	2.062	67910	2.45	100	101.7	90	110	
B	11	1	No Gas	503.925	1.365	1646673	1.36	500	100.8	90	110	
Al	27	1	No Gas	98.015	2.661	2424660	1.98	100	98.0	90	110	
Si	28	1	No Gas	493.126	2.811	6125285	2.04	500	98.6	90	110	
Ag	107	1	No Gas	99.246	1.546	3192384	1.23	100	99.2	90	110	
Cd	111	1	No Gas	98.208	2.120	630472	2.15	100	98.2	90	110	
Sr	88	1	No Gas	98.939	1.831	6291956	1.36	100	98.9	90	110	
Mo	95	1	No Gas	98.045	1.291	1198185	0.93	100	98.0	90	110	
Sn	118	1	No Gas	99.381	1.674	2095373	1.59	100	99.4	90	110	
Sb	121	1	No Gas	98.636	2.147	2784794	1.55	100	98.6	90	110	
Ba	137	1	No Gas	98.472	2.089	1052154	1.70	100	98.5	90	110	
Tl	205	1	No Gas	98.785	2.262	7343951	2.57	100	98.8	90	110	
Tl	203	1	No Gas	98.566	1.754	2984190	2.21	100	98.6	90	110	
Pb	208	1	No Gas	98.360	2.202	10005159	2.66	100	98.4	90	110	
U	238	1	No Gas	98.346	2.280	10495651	2.72	100	98.3	90	110	
Ca	43	2	He	9929.435	2.559	37220	1.76	10000	99.3	90	110	
Sb	121	2	He	99.177	1.101	1221978	1.44	100	99.2	90	110	
Ti	47	2	He	101.082	1.683	37454	0.92	100	101.1	90	110	
Cu	63	1	No Gas	99.696	2.380	2275133	1.78	100	99.7	90	110	
Se	82	1	No Gas	100.663	2.338	38846	1.71	100	100.7	90	110	
Zr	90	1	No Gas	97.330	1.765	3867343	1.29	100	97.3	90	110	
Zr	90	2	He	97.795	0.591	1559828	1.35	100	97.8	90	1100	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1454301	0.00	1676119	86.77	70	120	
Ge	72	2	He	1118961	1.46	1163381	96.18	70	120	
Ge	72	1	No Gas	3921161	0.61	4078799	96.14	70	120	
In	115	1	No Gas	4957788	0.53	5144583	96.37	70	120	
Bi	209	1	No Gas	5013513	0.91	4944446	101.40	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	130ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:29:40-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.358	1.6	82287	0.3	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.026	19.9	325	8.6	0	ICSA Main CR1 Failed
V	51	2	He	0.267	9.7	5997	3.6	0	ICSA Main CR1 Failed
Cr	52	2	He	0.806	4.0	20562	1.3	0	ICSA Main CR1 Failed
Fe	56	2	He	98348.270	1.3	990302145	1.5	0	
Se	78	2	He	0.151	168.4	164	22.6	0	ICSA Main CR1 Failed
As	75	2	He	0.371	6.7	938	4.8	0	ICSA Main CR1 Failed
Ca	44	2	He	99406.286	1.8	6102115	2.1	0	
Na	23	2	He	99974.006	1.5	166468284	1.7	0	
Mg	24	2	He	98846.466	1.9	100855442	2.1	0	
K	39	2	He	101153.495	1.3	118678692	1.5	0	
Mn	55	2	He	1.810	2.9	15489	2.7	0	ICSA Main CR1 Failed
Co	59	2	He	1.010	1.2	17298	1.2	0	ICSA Main CR1 Failed
Ni	60	2	He	0.998	2.6	4591	1.9	0	ICSA Main CR1 Failed
Cu	63	2	He	0.708	3.9	8710	3.1	0	ICSA Main CR1 Failed
Zn	66	2	He	2.944	1.6	7015	1.3	0	ICSA Main CR1 Failed
Al	27	2	He	103953.730	1.9	65038362	2.1	0	
B	11	1	No Gas	3.288	9.6	19667	4.8	0	
Al	27	1	No Gas	98464.957	2.8	2217983434	1.9	0	
Si	28	1	No Gas	37.470	10.5	757742	6.5	0	
Ag	107	1	No Gas	0.025	22.7	1760	11.1	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.735	19.8	4351	18.6	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.887	3.4	55119	1.8	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2006.802	2.1	22649670	0.9	0	
Sn	118	1	No Gas	0.218	10.3	10001	4.2	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.164	10.5	4851	9.1	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.439	6.4	5014	4.3	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.006	40.7	2890	5.9	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.010	33.6	1243	7.2	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.874	2.6	85471	2.4	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.008	23.1	4271	3.5	0	ICSA Main CR1 Failed
Ca	43	2	He	95843.592	0.9	345112	1.2	0	
Sb	121	2	He	0.146	4.1	1947	3.9	0	ICSA Main CR1 Failed
Ti	47	2	He	2001.390	2.1	712750	2.2	0	
Se	82	1	No Gas	0.416	44.1	543	11.1	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1383481	0.37	1676119	82.54	70	120	
Ge	72	2	He	1075739	0.47	1163381	92.47	70	120	
Ge	72	1	No Gas	3664810	1.04	4078799	89.85	70	120	
In	115	1	No Gas	4580139	1.50	5144583	89.03	70	120	
Bi	209	1	No Gas	4540268	0.63	4944446	91.83	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	131ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:32:11-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	101.638	1.890	2078349	1.54	100	101.6	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	96.891	1.764	488179	1.43	100	96.9	80	120	
V	51	2	He	99.387	2.466	954030	2.28	100	99.4	80	120	
Cr	52	2	He	97.577	2.732	1071343	2.49	100	97.6	80	120	
Fe	56	2	He	104873.313	2.892	1079903451	2.76	100	104873.3	80	120	ICSB Main CR1 Failed
Se	78	2	He	102.827	3.107	15680	2.92	100	102.8	80	120	
As	75	2	He	100.327	2.567	171266	2.50	100	100.3	80	120	
Ca	44	2	He	104746.385	3.200	6575082	2.88	100	104746.4	80	120	ICSB Main CR1 Failed
Na	23	2	He	105760.470	2.387	180072257	2.23	100	105760.5	80	120	ICSB Main CR1 Failed
Mg	24	2	He	104449.605	2.907	108984382	2.78	100	104449.6	80	120	ICSB Main CR1 Failed
K	39	2	He	105904.002	2.042	127062011	2.03	100	105904.0	80	120	ICSB Main CR1 Failed
Mn	55	2	He	97.499	2.820	811730	2.70	100	97.5	80	120	
Co	59	2	He	96.529	2.584	1619375	2.56	100	96.5	80	120	
Ni	60	2	He	94.087	3.196	405161	3.07	100	94.1	80	120	
Cu	63	2	He	93.867	2.544	1087015	2.44	100	93.9	80	120	
Zn	66	2	He	98.536	3.575	211139	3.45	100	98.5	80	120	
Al	27	2	He	98705.068	2.485	63154012	2.53	100	98705.1	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	518.422	1.250	1584088	0.81	100	518.4	80	120	
Al	27	1	No Gas	94212.890	3.179	2179570421	1.84	100	94212.9	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	530.795	2.471	6301319	1.00	100	530.8	80	120	
Ag	107	1	No Gas	98.537	2.057	2962834	0.87	100	98.5	80	120	
Cd	111	1	No Gas	100.069	1.571	600531	0.85	100	100.1	80	120	
Sr	88	1	No Gas	104.207	3.641	6193324	1.82	100	104.2	80	120	
Mo	95	1	No Gas	2067.179	3.113	23607650	1.32	100	2067.2	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	103.654	2.524	2042502	1.01	100	103.7	80	120	
Sb	121	1	No Gas	104.423	1.629	2830034	0.72	100	104.4	80	120	
Ba	137	1	No Gas	102.771	1.706	1026480	0.50	100	102.8	80	120	
Tl	205	1	No Gas	97.338	0.869	6609837	0.63	100	97.3	80	120	
Tl	203	1	No Gas	97.747	1.039	2703125	0.80	100	97.7	80	120	
Pb	208	1	No Gas	103.277	1.340	9595010	1.10	100	103.3	80	120	
U	238	1	No Gas	104.453	1.397	10181597	1.16	100	104.5	80	120	
Ca	43	2	He	100740.236	2.838	370936	2.43	100	100740.2	80	120	ICSB Main CR1 Failed
Sb	121	2	He	101.227	2.794	1226244	2.56	100	101.2	80	120	
Ti	47	2	He	1990.942	3.139	725056	2.84	100	1990.9	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	96.523	2.354	2114542	1.02	100	96.5	80	120	
Se	82	1	No Gas	106.484	4.113	39414	2.76	100	106.5	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1360186	0.44	1676119	81.15	70	120	
Ge	72	2	He	1100153	0.73	1163381	94.57	70	120	
Ge	72	1	No Gas	3764228	1.32	4078799	92.29	70	120	
In	115	1	No Gas	4635240	1.79	5144583	90.10	70	120	
Bi	209	1	No Gas	4579544	0.24	4944446	92.62	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	134_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:42:30-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	100.550	2.241	2061873	2.02	100	100.5	90	110	
Be	9	1	No Gas	100.052	1.868	505319	1.70	100	100.1	90	110	
V	51	2	He	99.859	0.584	965369	1.02	100	99.9	90	110	
Cr	52	2	He	100.180	0.831	1107406	0.92	100	100.2	90	110	
Fe	56	2	He	10111.096	0.279	104874045	0.76	10000	101.1	90	110	
Se	78	2	He	99.498	0.361	15285	0.45	100	99.5	90	110	
As	75	2	He	99.895	1.468	171738	1.55	100	99.9	90	110	
Ca	44	2	He	9724.528	1.427	615575	1.47	10000	97.2	90	110	
Na	23	2	He	9968.711	1.214	17371078	1.09	10000	99.7	90	110	
Mg	24	2	He	10025.231	1.036	10535448	1.03	10000	100.3	90	110	
K	39	2	He	10028.992	1.180	12225331	1.18	10000	100.3	90	110	
Mn	55	2	He	98.574	0.220	826507	0.78	100	98.6	90	110	
Co	59	2	He	101.461	0.395	1714134	0.67	100	101.5	90	110	
Ni	60	2	He	100.915	0.873	437613	0.61	100	100.9	90	110	
Cu	63	2	He	100.976	0.687	1177584	0.86	100	101.0	90	110	
Zn	66	2	He	101.242	0.983	218454	1.14	100	101.2	90	110	
Al	27	2	He	99.661	1.090	65928	1.31	100	99.7	90	110	
B	11	1	No Gas	511.988	1.184	1568355	1.13	500	102.4	90	110	
Al	27	1	No Gas	97.019	2.053	2343938	1.40	100	97.0	90	110	
Si	28	1	No Gas	482.926	1.955	5864650	1.60	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.724	1.652	3194823	1.10	100	99.7	90	110	
Cd	111	1	No Gas	98.143	1.836	627490	1.25	100	98.1	90	110	
Sr	88	1	No Gas	97.968	2.359	6205063	1.79	100	98.0	90	110	
Mo	95	1	No Gas	97.400	1.108	1185561	1.08	100	97.4	90	110	
Sn	118	1	No Gas	99.937	1.474	2098563	1.08	100	99.9	90	110	
Sb	121	1	No Gas	101.141	1.852	2788029	1.33	100	101.1	90	110	
Ba	137	1	No Gas	98.473	1.519	1047941	0.93	100	98.5	90	110	
Tl	205	1	No Gas	99.346	1.126	7459016	1.64	100	99.3	90	110	
Tl	203	1	No Gas	99.800	0.947	3051461	1.30	100	99.8	90	110	
Pb	208	1	No Gas	98.877	1.722	10157533	2.23	100	98.9	90	110	
U	238	1	No Gas	99.247	0.797	10696650	1.34	100	99.2	90	110	
Ca	43	2	He	9911.115	2.777	36789	2.39	10000	99.1	90	110	
Sb	121	2	He	100.093	1.084	1221112	0.81	100	100.1	90	110	
Ti	47	2	He	98.676	1.059	36208	1.34	100	98.7	90	110	
Cu	63	1	No Gas	99.448	1.635	2215962	1.50	100	99.4	90	110	
Se	82	1	No Gas	98.686	3.479	37188	2.69	100	98.7	90	110	
Zr	90	1	No Gas	95.462	2.317	3777884	1.88	100	95.5	90	110	
Zr	90	2	He	98.212	1.248	1550985	0.77	100	98.2	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1363455	0.23	1676119	81.35	70	120	
Ge	72	2	He	1107920	0.57	1163381	95.23	70	120	
Ge	72	1	No Gas	3828711	1.61	4078799	93.87	70	120	
In	115	1	No Gas	4937954	0.74	5144583	95.98	70	120	
Bi	209	1	No Gas	5063257	0.64	4944446	102.40	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	135_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:44:54-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.003	826.4	79564	1.4	0.5	
Be	9	1	No Gas	0.015	64.9	280	19.3	0.5	
V	51	2	He	-0.173	-1.5	1995	2.2	2.5	
Cr	52	2	He	-0.483	-1.4	7275	2.5	2.5	
Fe	56	2	He	1.011	7.0	30752	3.9	100	
Se	78	2	He	0.095	106.1	165	11.0	2	
As	75	2	He	-0.034	-35.4	278	6.2	2.5	
Ca	44	2	He	3.112	10.6	1100	3.3	100	
Na	23	2	He	-81.597	-1.6	171139	0.1	100	
Mg	24	2	He	0.183	15.8	1070	4.3	100	
K	39	2	He	-1.240	-27.3	120354	1.5	100	
Mn	55	2	He	0.160	19.6	2190	13.5	2.5	
Co	59	2	He	0.004	56.4	857	5.8	2.5	
Ni	60	2	He	0.059	25.6	673	9.9	2.5	
Cu	63	2	He	0.041	28.0	1223	10.9	2	
Zn	66	2	He	0.669	8.6	2394	4.4	2.5	
Al	27	2	He	-0.961	-17.7	1120	9.4	5	
B	11	1	No Gas	3.471	10.7	21420	5.9	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.813	-21.0	42736	9.4	5	
Si	28	1	No Gas	0.666	66.0	381886	1.3	10	
Ag	107	1	No Gas	-0.012	-12.8	737	6.1	2.5	
Cd	111	1	No Gas	0.000	-422.4	0	-2056.6	1	
Sr	88	1	No Gas	-0.024	-9.9	1820	9.1	2.5	
Mo	95	1	No Gas	0.097	9.0	1400	7.5	2.5	
Sn	118	1	No Gas	0.014	122.5	6698	5.8	5	
Sb	121	1	No Gas	0.187	14.7	5868	13.2	2.5	
Ba	137	1	No Gas	0.013	31.2	903	5.5	2.5	
Tl	205	1	No Gas	0.012	45.6	3747	11.2	1	
Tl	203	1	No Gas	0.015	47.4	1577	14.5	1	
Pb	208	1	No Gas	0.009	47.4	6624	6.1	2.5	
U	238	1	No Gas	0.007	33.5	4794	5.4	2.5	
Ca	43	2	He	7.235	92.2	70	37.8	100	
Sb	121	2	He	0.139	13.1	1967	13.0	2.5	
Ti	47	2	He	-0.017	-161.8	10	100.0	2.5	
Cu	63	1	No Gas	-0.140	-3.3	3551	2.8	2.5	
Se	82	1	No Gas	-0.001	-10404.7	423	10.7	2	
Zr	90	1	No Gas	0.177	20.2	8490	16.9	2.5	
Zr	90	2	He	0.109	17.5	3521	9.8	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1464404	1.12	1676119	87.37	70	120	
Ge	72	2	He	1135977	1.44	1163381	97.64	70	120	
Ge	72	1	No Gas	3928910	0.27	4078799	96.33	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5079849	0.51	5144583	98.74	70	120	
Bi	209	1	No Gas	5145448	0.60	4944446	104.07	70	120	

Sample Report

Sample Table

Sample Name	MBLK-213798
Data File Name	136SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:47:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	-0.019	-0.019	-153.28	79922	0.00	2000	
Be	9	1	No Gas	0.010	0.010	50.47	257	0.00	2000	
V	51	2	He	-0.184	-0.184	-2.24	1867	-0.01	2000	
Cr	52	2	He	-0.451	-0.451	-2.69	7556	-0.01	2000	
Fe	56	2	He	2.172	2.172	3.42	42683	0.01	200000	
Se	78	2	He	0.119	0.119	121.98	167	0.07	2000	
As	75	2	He	-0.041	-0.041	-52.35	262	-0.02	2000	
Ca	44	2	He	21.240	21.240	10.30	2254	0.94	200000	
Na	23	2	He	-83.461	-83.461	-0.42	166312	-0.05	200000	
Mg	24	2	He	0.992	0.992	2.41	1924	0.05	200000	
K	39	2	He	-0.537	-0.537	-117.71	120086	0.00	200000	
Mn	55	2	He	0.546	0.546	3.38	5448	0.01	2000	
Co	59	2	He	-0.001	-0.001	-1089.80	763	0.00	2000	
Ni	60	2	He	0.232	0.232	10.35	1430	0.02	2000	
Cu	63	2	He	0.132	0.132	5.46	2300	0.01	2000	
Zn	66	2	He	1.940	1.940	4.37	5148	0.04	2000	
Al	27	2	He	0.529	0.529	91.52	2084	0.03	2000	
B	11	1	No Gas	1.364	1.364	13.04	14674	0.01	2000	
Al	27	1	No Gas	0.574	0.574	2.54	76260	0.00	2000	
Si	28	1	No Gas	2.829	2.829	7.45	407269	0.00	2000	
Ag	107	1	No Gas	-0.015	-0.015	-39.91	630	0.00	2000	
Cd	111	1	No Gas	-0.003	-0.003	-352.35	-16	0.02	2000	
Sr	88	1	No Gas	-0.008	-0.008	-55.32	2897	0.00	2000	
Mo	95	1	No Gas	0.041	0.041	7.49	703	0.01	2000	
Sn	118	1	No Gas	0.153	0.153	13.35	9661	0.00	2000	
Sb	121	1	No Gas	0.051	0.051	1.87	2007	0.00	2000	
Ba	137	1	No Gas	0.011	0.011	101.48	873	0.00	2000	
Tl	205	1	No Gas	0.002	0.002	30.09	2990	0.00	2000	
Tl	203	1	No Gas	0.007	0.007	44.76	1337	0.00	2000	
Pb	208	1	No Gas	0.015	0.015	21.67	7261	0.00	2000	
U	238	1	No Gas	0.003	0.003	94.33	4338	0.00	2000	
Ca	43	2	He	27.848	27.848	22.68	147	18.99	200000	
Sb	121	2	He	0.051	0.051	12.63	857	0.01	2000	
Ti	47	2	He	0.011	0.011	673.62	20	0.05	2000	
Cu	63	1	No Gas	-0.057	-0.057	-24.66	5455	0.00	2000	
Ca	44	1	No Gas	19.957	19.957	6.93	44378	0.04	200000	
Zn	66	1	No Gas	1.810	1.810	2.13	14004	0.01	2000	
Se	82	1	No Gas	-0.281	-0.281	-33.32	317	-0.09	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1479387	0.60	1676119	88.26	70	120	
Ge	72	2	He	1125319	0.72	1163381	96.73	70	120	
Ge	72	1	No Gas	3929819	0.86	4078799	96.35	70	120	

Sample Report

In	115	1	No Gas	5056449	0.50	5144583	98.29	70	120	
Bi	209	1	No Gas	5170787	0.28	4944446	104.58	70	120	

Sample Report

Sample Table

Sample Name	LCS-213798
Data File Name	137SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:49:41-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	90.118	90.118	2.03	1865004	0.00	2000	
Be	9	1	No Gas	46.508	46.508	1.77	236176	0.02	2000	
V	51	2	He	46.335	46.335	3.53	449982	0.01	2000	
Cr	52	2	He	47.169	47.169	3.10	528120	0.01	2000	
Fe	56	2	He	4812.026	4812.026	2.91	49937048	0.01	200000	
Se	78	2	He	47.191	47.191	4.21	7328	0.64	2000	
As	75	2	He	47.172	47.172	2.29	81300	0.06	2000	
Ca	44	2	He	4767.361	4767.361	3.41	302308	1.58	200000	
Na	23	2	He	4680.112	4680.112	2.65	8320905	0.06	200000	
Mg	24	2	He	4806.518	4806.518	3.26	5053058	0.10	200000	
K	39	2	He	4746.942	4746.942	3.67	5850647	0.08	200000	
Mn	55	2	He	49.095	49.095	2.96	412167	0.01	2000	
Co	59	2	He	47.616	47.616	2.81	805106	0.01	2000	
Ni	60	2	He	48.371	48.371	1.29	210063	0.02	2000	
Cu	63	2	He	47.830	47.830	3.00	558357	0.01	2000	
Zn	66	2	He	55.087	55.087	2.09	119319	0.05	2000	
Al	27	2	He	105.182	105.182	3.15	69504	0.15	2000	
B	11	1	No Gas	414.139	414.139	1.26	1276784	0.03	2000	
Al	27	1	No Gas	101.489	101.489	2.94	2464515	0.00	2000	
Si	28	1	No Gas	498.782	498.782	2.71	6083123	0.01	2000	
Ag	107	1	No Gas	47.933	47.933	1.96	1543085	0.00	2000	
Cd	111	1	No Gas	46.529	46.529	2.25	298848	0.02	2000	
Sr	88	1	No Gas	82.851	82.851	2.89	5271516	0.00	2000	
Mo	95	1	No Gas	45.928	45.928	2.00	561612	0.01	2000	
Sn	118	1	No Gas	83.809	83.809	1.77	1768773	0.00	2000	
Sb	121	1	No Gas	49.259	49.259	2.75	1366666	0.00	2000	
Ba	137	1	No Gas	46.744	46.744	1.78	500070	0.01	2000	
Tl	205	1	No Gas	40.165	40.165	1.27	3047483	0.00	2000	
Tl	203	1	No Gas	39.873	39.873	1.19	1232024	0.00	2000	
Pb	208	1	No Gas	46.427	46.427	1.24	4820006	0.00	2000	
U	238	1	No Gas	85.576	85.576	1.30	9316118	0.00	2000	
Ca	43	2	He	4848.856	4848.856	6.46	18022	26.91	200000	
Sb	121	2	He	48.713	48.713	2.48	594625	0.01	2000	
Ti	47	2	He	128.774	128.774	3.91	47257	0.27	2000	
Cu	63	1	No Gas	46.788	46.788	2.18	1052631	0.00	2000	
Ca	44	1	No Gas	4744.246	4744.246	2.68	4254771	0.11	200000	
Zn	66	1	No Gas	53.433	53.433	2.47	330574	0.02	2000	
Se	82	1	No Gas	46.296	46.296	2.65	17779	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1370254	0.33	1676119	81.75	70	120	
Ge	72	2	He	1108488	1.10	1163381	95.28	70	120	
Ge	72	1	No Gas	3852818	1.23	4078799	94.46	70	120	

Sample Report

In	115	1	No Gas	4960094	1.07	5144583	96.41	70	120	
Bi	209	1	No Gas	5113667	0.95	4944446	103.42	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	138SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:52:05-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	3.244	16.218	3.03	145979	0.00	2000	
Be	9	1	No Gas	0.013	0.066	36.81	268	0.00	2000	
V	51	2	He	0.145	0.726	20.25	5081	0.00	2000	
Cr	52	2	He	-0.077	-0.384	-51.78	11705	0.00	2000	
Fe	56	2	He	45.694	228.469	0.77	500935	0.01	200000	
Se	78	2	He	0.176	0.880	96.69	175	0.10	2000	
As	75	2	He	0.063	0.317	42.18	444	0.01	2000	
Ca	44	2	He	3250.460	16252.298	0.74	209507	1.55	200000	
Na	23	2	He	36582.220	182911.100	1.06	63896271	0.06	200000	
Mg	24	2	He	1746.611	8733.054	0.98	1864384	0.09	200000	
K	39	2	He	221.549	1107.745	1.27	392285	0.06	200000	
Mn	55	2	He	41.009	205.045	1.47	349566	0.01	2000	
Co	59	2	He	0.186	0.932	10.85	3971	0.00	2000	
Ni	60	2	He	0.925	4.624	2.75	4477	0.02	2000	
Cu	63	2	He	0.220	1.101	5.06	3337	0.01	2000	
Zn	66	2	He	12.935	64.673	3.74	29138	0.04	2000	
Al	27	2	He	5.698	28.491	6.07	5464	0.10	2000	
B	11	1	No Gas	6.060	30.299	4.02	29400	0.02	2000	
Al	27	1	No Gas	5.572	27.861	2.30	196322	0.00	2000	
Si	28	1	No Gas	4737.154	23685.772	2.14	55559688	0.01	2000	>LDR
Ag	107	1	No Gas	-0.005	-0.024	-94.28	953	0.00	2000	
Cd	111	1	No Gas	0.029	0.147	18.70	195	0.02	2000	
Sr	88	1	No Gas	50.030	250.149	1.74	3253428	0.00	2000	
Mo	95	1	No Gas	0.074	0.372	7.74	1117	0.01	2000	
Sn	118	1	No Gas	0.570	2.849	2.54	18627	0.00	2000	
Sb	121	1	No Gas	0.083	0.413	10.87	2900	0.00	2000	
Ba	137	1	No Gas	39.688	198.441	0.57	433846	0.01	2000	
Tl	205	1	No Gas	0.051	0.254	38.05	6692	0.00	2000	
Tl	203	1	No Gas	0.057	0.283	48.76	2850	0.00	2000	
Pb	208	1	No Gas	0.020	0.102	11.44	7784	0.00	2000	
U	238	1	No Gas	0.124	0.619	1.18	17459	0.00	2000	
Ca	43	2	He	3386.574	16932.869	2.60	12789	26.48	200000	
Sb	121	2	He	0.072	0.358	4.11	1117	0.01	2000	
Ti	47	2	He	0.297	1.487	46.79	127	0.23	2000	
Cu	63	1	No Gas	0.293	1.463	2.33	13373	0.00	2000	
Ca	44	1	No Gas	3253.141	16265.704	2.06	2973953	0.11	200000	
Zn	66	1	No Gas	12.399	61.995	1.07	80019	0.02	2000	
Se	82	1	No Gas	-0.225	-1.126	-74.55	337	-0.07	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1440651	0.26	1676119	85.95	70	120	
Ge	72	2	He	1124946	1.43	1163381	96.70	70	120	
Ge	72	1	No Gas	3916111	0.42	4078799	96.01	70	120	

Sample Report

In	115	1	No Gas	5066507	0.52	5144583	98.48	70	120	
Bi	209	1	No Gas	5117974	0.40	4944446	103.51	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	140SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:56:57-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	106.680	106.680	1.65	2224677	0.00	2000	
Be	9	1	No Gas	48.892	48.892	2.50	251739	0.02	2000	
V	51	2	He	48.943	48.943	1.46	475631	0.01	2000	
Cr	52	2	He	48.654	48.654	1.99	544933	0.01	2000	
Fe	56	2	He	5024.801	5024.801	1.20	52198906	0.01	200000	
Se	78	2	He	49.351	49.351	2.22	7666	0.64	2000	
As	75	2	He	49.353	49.353	2.35	85128	0.06	2000	
Ca	44	2	He	20761.088	20761.088	1.80	1315019	1.58	200000	
Na	23	2	He	180990.998	180990.998	1.81	310549649	0.06	200000	>LDR
Mg	24	2	He	13188.123	13188.123	1.83	13878134	0.10	200000	
K	39	2	He	5947.848	5947.848	2.16	7308952	0.08	200000	
Mn	55	2	He	238.452	238.452	1.51	2000898	0.01	2000	
Co	59	2	He	48.268	48.268	0.99	816986	0.01	2000	
Ni	60	2	He	50.235	50.235	0.94	218344	0.02	2000	
Cu	63	2	He	48.618	48.618	1.41	568136	0.01	2000	
Zn	66	2	He	57.661	57.661	2.59	124971	0.05	2000	
Al	27	2	He	107.557	107.557	1.92	71113	0.15	2000	
B	11	1	No Gas	447.064	447.064	1.46	1396772	0.03	2000	
Al	27	1	No Gas	105.530	105.530	2.28	2571165	0.00	2000	
Si	28	1	No Gas	23175.698	23175.698	1.95	267105849	0.01	2000	>LDR
Ag	107	1	No Gas	47.548	47.548	1.60	1510927	0.00	2000	
Cd	111	1	No Gas	48.228	48.228	1.41	305751	0.02	2000	
Sr	88	1	No Gas	327.595	327.595	1.94	20566071	0.00	2000	
Mo	95	1	No Gas	48.032	48.032	1.42	579760	0.01	2000	
Sn	118	1	No Gas	85.376	85.376	1.87	1778464	0.00	2000	
Sb	121	1	No Gas	49.815	49.815	2.41	1387901	0.00	2000	
Ba	137	1	No Gas	244.270	244.270	2.45	2576340	0.01	2000	
Tl	205	1	No Gas	41.752	41.752	2.35	2985330	0.00	2000	
Tl	203	1	No Gas	41.590	41.590	2.68	1211003	0.00	2000	
Pb	208	1	No Gas	48.029	48.029	1.24	4698955	0.00	2000	
U	238	1	No Gas	88.810	88.810	1.44	9111231	0.00	2000	
Ca	43	2	He	20503.621	20503.621	1.81	76175	26.92	200000	
Sb	121	2	He	49.645	49.645	1.60	606600	0.01	2000	
Ti	47	2	He	136.121	136.121	2.10	50007	0.27	2000	
Cu	63	1	No Gas	49.727	49.727	2.29	1123040	0.00	2000	
Ca	44	1	No Gas	20234.475	20234.475	1.86	18139493	0.11	200000	
Zn	66	1	No Gas	56.550	56.550	2.81	351169	0.02	2000	
Se	82	1	No Gas	48.703	48.703	1.08	18760	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1389407	0.10	1676119	82.89	70	120	
Ge	72	2	He	1109429	0.30	1163381	95.36	70	120	
Ge	72	1	No Gas	3868868	0.88	4078799	94.85	70	120	
In	115	1	No Gas	4895995	0.43	5144583	95.17	70	120	
Bi	209	1	No Gas	4819697	0.34	4944446	97.48	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	141SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:59:25-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	107.408	107.408	2.16	2264831	0.00	2000	
Be	9	1	No Gas	49.077	49.077	2.11	255558	0.02	2000	
V	51	2	He	49.027	49.027	1.95	487197	0.01	2000	
Cr	52	2	He	48.851	48.851	1.82	559430	0.01	2000	
Fe	56	2	He	5078.390	5078.390	0.94	53946448	0.01	200000	
Se	78	2	He	50.663	50.663	2.69	8043	0.63	2000	
As	75	2	He	49.619	49.619	2.10	87519	0.06	2000	
Ca	44	2	He	20945.361	20945.361	1.91	1356636	1.54	200000	
Na	23	2	He	180762.748	180762.748	1.68	317168955	0.06	200000	>LDR
Mg	24	2	He	13307.414	13307.414	1.78	14320306	0.09	200000	
K	39	2	He	5970.612	5970.612	1.77	7502182	0.08	200000	
Mn	55	2	He	240.242	240.242	0.79	2061454	0.01	2000	
Co	59	2	He	48.786	48.786	0.82	844387	0.01	2000	
Ni	60	2	He	50.523	50.523	0.94	224557	0.02	2000	
Cu	63	2	He	48.898	48.898	1.39	584305	0.01	2000	
Zn	66	2	He	58.399	58.399	2.55	129426	0.05	2000	
Al	27	2	He	109.732	109.732	2.79	74155	0.15	2000	
B	11	1	No Gas	449.441	449.441	1.59	1420119	0.03	2000	
Al	27	1	No Gas	106.533	106.533	1.34	2603719	0.00	2000	
Si	28	1	No Gas	23372.296	23372.296	0.96	270276196	0.01	2000	>LDR
Ag	107	1	No Gas	47.647	47.647	1.99	1528891	0.00	2000	
Cd	111	1	No Gas	48.432	48.432	2.24	310034	0.02	2000	
Sr	88	1	No Gas	330.254	330.254	2.03	20935986	0.00	2000	
Mo	95	1	No Gas	48.105	48.105	2.34	586309	0.01	2000	
Sn	118	1	No Gas	85.647	85.647	1.68	1801595	0.00	2000	
Sb	121	1	No Gas	50.433	50.433	1.15	1409941	0.00	2000	
Ba	137	1	No Gas	243.755	243.755	1.25	2596221	0.01	2000	
Tl	205	1	No Gas	42.492	42.492	2.57	3073187	0.00	2000	
Tl	203	1	No Gas	42.058	42.058	2.51	1238754	0.00	2000	
Pb	208	1	No Gas	48.288	48.288	2.32	4778825	0.00	2000	
U	238	1	No Gas	89.152	89.152	2.07	9252264	0.00	2000	
Ca	43	2	He	20914.338	20914.338	2.79	79453	26.32	200000	
Sb	121	2	He	49.766	49.766	1.33	621815	0.01	2000	
Ti	47	2	He	136.755	136.755	0.78	51375	0.27	2000	
Cu	63	1	No Gas	49.744	49.744	2.55	1127204	0.00	2000	
Ca	44	1	No Gas	20325.472	20325.472	1.62	18282326	0.11	200000	
Zn	66	1	No Gas	57.188	57.188	2.62	356306	0.02	2000	
Se	82	1	No Gas	49.004	49.004	1.54	18937	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1405331	0.77	1676119	83.84	70	120	
Ge	72	2	He	1134485	0.52	1163381	97.52	70	120	
Ge	72	1	No Gas	3881738	0.63	4078799	95.17	70	120	
In	115	1	No Gas	4944187	0.79	5144583	96.10	70	120	
Bi	209	1	No Gas	4876363	1.64	4944446	98.62	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	142SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:01:53-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	14.525	14.525	1.41	373909	0.00	2000	
Be	9	1	No Gas	92.602	92.602	2.08	484196	0.02	2000	
V	51	2	He	93.180	93.180	3.64	871269	0.01	2000	
Cr	52	2	He	92.457	92.457	3.14	989212	0.01	2000	
Fe	56	2	He	9521.782	9521.782	2.39	95500315	0.01	200000	
Se	78	2	He	93.833	93.833	0.76	13947	0.67	2000	
As	75	2	He	94.347	94.347	1.66	156861	0.06	2000	
Ca	44	2	He	24060.948	24060.948	2.94	1471542	1.64	200000	
Na	23	2	He	176156.061	176156.061	3.06	291886402	0.06	200000	
Mg	24	2	He	17225.310	17225.310	2.37	17503736	0.10	200000	
K	39	2	He	10317.894	10317.894	2.47	12158919	0.08	200000	
Mn	55	2	He	273.881	273.881	2.52	2219167	0.01	2000	
Co	59	2	He	92.979	92.979	1.50	1519013	0.01	2000	
Ni	60	2	He	93.410	93.410	1.51	391729	0.02	2000	
Cu	63	2	He	92.497	92.497	2.05	1043135	0.01	2000	
Zn	66	2	He	102.781	102.781	1.78	214436	0.05	2000	
Al	27	2	He	101.351	101.351	2.87	64802	0.16	2000	
B	11	1	No Gas	16.404	16.404	2.03	61410	0.03	2000	
Al	27	1	No Gas	99.747	99.747	1.91	2394994	0.00	2000	
Si	28	1	No Gas	22092.399	22092.399	2.77	250591936	0.01	2000	>LDR
Ag	107	1	No Gas	94.780	94.780	1.87	2983678	0.00	2000	
Cd	111	1	No Gas	92.977	92.977	1.34	584121	0.02	2000	
Sr	88	1	No Gas	232.845	232.845	2.23	14487509	0.00	2000	
Mo	95	1	No Gas	92.350	92.350	2.19	1104496	0.01	2000	
Sn	118	1	No Gas	0.398	0.398	6.37	14298	0.00	2000	
Sb	121	1	No Gas	95.812	95.812	1.89	2626741	0.00	2000	
Ba	137	1	No Gas	282.325	282.325	1.66	2950893	0.01	2000	
Tl	205	1	No Gas	93.035	93.035	2.36	6672509	0.00	2000	
Tl	203	1	No Gas	93.159	93.159	2.20	2720976	0.00	2000	
Pb	208	1	No Gas	93.215	93.215	1.49	9148190	0.00	2000	
U	238	1	No Gas	0.606	0.606	1.96	66107	0.00	2000	
Ca	43	2	He	23574.369	23574.369	4.21	84566	27.88	200000	
Sb	121	2	He	93.988	93.988	3.92	1108797	0.01	2000	
Ti	47	2	He	92.768	92.768	3.62	32916	0.28	2000	
Cu	63	1	No Gas	94.499	94.499	2.99	2094425	0.00	2000	
Ca	44	1	No Gas	24169.245	24169.245	2.95	21318319	0.11	200000	
Zn	66	1	No Gas	101.146	101.146	2.35	616115	0.02	2000	
Se	82	1	No Gas	93.147	93.147	4.46	34935	0.27	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1411394	0.51	1676119	84.21	70	120	
Ge	72	2	He	1071338	0.07	1163381	92.09	70	120	
Ge	72	1	No Gas	3807279	0.12	4078799	93.34	70	120	
In	115	1	No Gas	4851630	0.30	5144583	94.31	70	120	
Bi	209	1	No Gas	4837639	1.68	4944446	97.84	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	144_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:06:45-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.552	2.409	1954299	3.33	100	97.6	90	110	
Be	9	1	No Gas	97.275	1.527	479417	2.51	100	97.3	90	110	
V	51	2	He	96.083	1.787	872205	2.10	100	96.1	90	110	
Cr	52	2	He	96.516	1.709	1002089	1.73	100	96.5	90	110	
Fe	56	2	He	9787.536	1.586	95320909	2.50	10000	97.9	90	110	
Se	78	2	He	97.324	0.354	14041	1.66	100	97.3	90	110	
As	75	2	He	96.526	0.334	155815	1.26	100	96.5	90	110	
Ca	44	2	He	9436.495	0.476	560879	1.59	10000	94.4	90	110	
Na	23	2	He	9703.901	1.691	15886004	2.79	10000	97.0	90	110	
Mg	24	2	He	9724.745	1.784	9596472	2.93	10000	97.2	90	110	
K	39	2	He	9702.682	0.797	11108881	1.80	10000	97.0	90	110	
Mn	55	2	He	95.820	1.253	754331	1.73	100	95.8	90	110	
Co	59	2	He	98.328	1.418	1559730	2.04	100	98.3	90	110	
Ni	60	2	He	98.209	0.927	399861	1.33	100	98.2	90	110	
Cu	63	2	He	97.409	0.666	1066673	2.05	100	97.4	90	110	
Zn	66	2	He	98.450	1.176	199495	2.56	100	98.5	90	110	
Al	27	2	He	97.872	0.801	60821	2.26	100	97.9	90	110	
B	11	1	No Gas	491.582	0.617	1469668	1.49	500	98.3	90	110	
Al	27	1	No Gas	95.008	2.391	2184514	2.32	100	95.0	90	110	
Si	28	1	No Gas	480.285	2.398	5549526	2.20	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.527	2.271	2980253	1.67	100	97.5	90	110	
Cd	111	1	No Gas	96.019	1.816	585588	1.13	100	96.0	90	110	
Sr	88	1	No Gas	96.155	2.403	5809309	1.73	100	96.2	90	110	
Mo	95	1	No Gas	95.259	1.771	1105968	1.27	100	95.3	90	110	
Sn	118	1	No Gas	97.674	2.273	1956483	1.68	100	97.7	90	110	
Sb	121	1	No Gas	99.447	1.376	2607493	1.32	100	99.4	90	110	
Ba	137	1	No Gas	96.245	1.887	976991	1.34	100	96.2	90	110	
Tl	205	1	No Gas	96.511	1.564	6932289	1.88	100	96.5	90	110	
Tl	203	1	No Gas	96.436	1.376	2820946	1.66	100	96.4	90	110	
Pb	208	1	No Gas	96.434	1.288	9477230	1.55	100	96.4	90	110	
U	238	1	No Gas	96.828	2.417	9984069	2.68	100	96.8	90	110	
Ca	43	2	He	9496.983	0.899	33100	0.78	10000	95.0	90	110	
Sb	121	2	He	96.741	1.565	1108268	2.77	100	96.7	90	110	
Ti	47	2	He	97.289	1.854	33517	2.35	100	97.3	90	110	
Cu	63	1	No Gas	98.035	1.885	2077838	1.87	100	98.0	90	110	
Se	82	1	No Gas	93.104	4.526	33398	4.60	100	93.1	90	110	
Zr	90	1	No Gas	93.723	2.274	3537909	1.61	100	93.7	90	110	
Zr	90	2	He	94.723	1.871	1404681	2.67	100	94.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1330344	1.20	1676119	79.37	70	120	
Ge	72	2	He	1040242	1.55	1163381	89.42	70	120	
Ge	72	1	No Gas	3641278	0.28	4078799	89.27	70	120	
In	115	1	No Gas	4710168	0.70	5144583	91.56	70	120	
Bi	209	1	No Gas	4843888	0.36	4944446	97.97	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	145_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:09:09-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.068	43.2	77946	0.7	0.5	
Be	9	1	No Gas	0.017	39.1	280	12.5	0.5	
V	51	2	He	-0.048	-16.6	3013	2.5	2.5	
Cr	52	2	He	-0.466	-10.9	6975	7.9	2.5	
Fe	56	2	He	0.844	9.0	27093	2.1	100	
Se	78	2	He	0.160	86.7	163	12.0	2	
As	75	2	He	0.004	228.1	322	4.7	2.5	
Ca	44	2	He	4.017	32.5	1083	6.9	100	
Na	23	2	He	-56.582	-1.6	201152	0.7	100	
Mg	24	2	He	0.126	13.0	943	2.4	100	
K	39	2	He	-1.880	-31.4	111832	1.3	100	
Mn	55	2	He	0.183	4.4	2234	3.2	2.5	
Co	59	2	He	0.002	485.2	763	18.6	2.5	
Ni	60	2	He	0.076	19.7	703	8.7	2.5	
Cu	63	2	He	0.049	9.9	1233	4.9	2	
Zn	66	2	He	0.680	11.0	2264	7.5	2.5	
Al	27	2	He	-0.028	-6146.2	1622	65.9	5	
B	11	1	No Gas	4.355	7.2	23403	4.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.928	-4.1	37902	2.1	5	
Si	28	1	No Gas	1.241	3.4	368584	0.3	10	
Ag	107	1	No Gas	-0.014	-5.3	613	5.0	2.5	
Cd	111	1	No Gas	-0.002	-128.7	-12	-148.0	1	
Sr	88	1	No Gas	-0.028	-2.0	1483	3.5	2.5	
Mo	95	1	No Gas	0.059	22.7	883	17.0	2.5	
Sn	118	1	No Gas	0.068	109.9	7476	20.3	5	
Sb	121	1	No Gas	0.197	15.5	5831	13.7	2.5	
Ba	137	1	No Gas	0.013	181.9	860	28.6	2.5	
Tl	205	1	No Gas	0.015	36.9	3814	10.2	1	
Tl	203	1	No Gas	0.016	25.1	1533	7.4	1	
Pb	208	1	No Gas	0.008	21.1	6278	2.5	2.5	
U	238	1	No Gas	0.007	24.1	4591	3.6	2.5	
Ca	43	2	He	9.466	118.8	73	55.1	100	
Sb	121	2	He	0.160	12.2	2094	11.5	2.5	
Ti	47	2	He	0.013	212.0	20	50.0	2.5	
Cu	63	1	No Gas	-0.151	-7.2	3140	7.3	2.5	
Se	82	1	No Gas	-0.263	-41.8	307	13.2	2	
Zr	90	1	No Gas	0.182	19.3	8253	15.3	2.5	
Zr	90	2	He	0.113	5.2	3350	2.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1409852	0.65	1676119	84.11	70	120	
Ge	72	2	He	1062497	0.69	1163381	91.33	70	120	
Ge	72	1	No Gas	3726355	0.38	4078799	91.36	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4831228	1.15	5144583	93.91	70	120	
Bi	209	1	No Gas	4922551	0.50	4944446	99.56	70	120	

Sample Report

Sample Table

Sample Name	HS24060747-03
Data File Name	151SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:23:47-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	15.115	15.115	2.25	401405	0.00	2000	
Be	9	1	No Gas	0.056	0.056	30.15	503	0.01	2000	
V	51	2	He	1.627	1.627	2.79	20927	0.01	2000	
Cr	52	2	He	1.372	1.372	3.21	29709	0.00	2000	
Fe	56	2	He	198.256	198.256	2.48	2253294	0.01	200000	
Se	78	2	He	0.194	0.194	35.55	191	0.10	2000	
As	75	2	He	0.283	0.283	6.48	884	0.03	2000	
Ca	44	2	He	4234.501	4234.501	1.88	291551	1.45	200000	
Na	23	2	He	61601.327	61601.327	1.53	114819272	0.05	200000	
Mg	24	2	He	2757.911	2757.911	2.32	3147248	0.09	200000	
K	39	2	He	232.027	232.027	2.48	433163	0.05	200000	
Mn	55	2	He	94.976	94.976	1.89	864599	0.01	2000	
Co	59	2	He	3.384	3.384	1.93	62880	0.01	2000	
Ni	60	2	He	4.094	4.094	2.24	19698	0.02	2000	
Cu	63	2	He	2.166	2.166	2.14	28186	0.01	2000	
Zn	66	2	He	12.750	12.750	1.52	30721	0.04	2000	
Al	27	2	He	189.894	189.894	2.44	134697	0.14	2000	
B	11	1	No Gas	33.230	33.230	2.37	119020	0.03	2000	
Al	27	1	No Gas	187.616	187.616	0.76	4786207	0.00	2000	
Si	28	1	No Gas	36623.007	36623.007	1.98	446358393	0.01	2000	>LDR
Ag	107	1	No Gas	0.050	0.050	8.41	2917	0.00	2000	
Cd	111	1	No Gas	0.202	0.202	8.26	1403	0.01	2000	
Sr	88	1	No Gas	88.377	88.377	1.32	6063194	0.00	2000	
Mo	95	1	No Gas	0.053	0.053	18.48	897	0.01	2000	
Sn	118	1	No Gas	0.264	0.264	8.31	12713	0.00	2000	
Sb	121	1	No Gas	0.176	0.176	2.77	5795	0.00	2000	
Ba	137	1	No Gas	104.236	104.236	1.24	1201393	0.01	2000	
Tl	205	1	No Gas	0.004	0.004	124.74	3301	0.00	2000	
Tl	203	1	No Gas	0.004	0.004	22.82	1303	0.00	2000	
Pb	208	1	No Gas	0.717	0.717	1.87	85407	0.00	2000	
U	238	1	No Gas	0.111	0.111	4.11	17089	0.00	2000	
Ca	43	2	He	4312.882	4312.882	2.95	17408	24.78	200000	
Sb	121	2	He	0.171	0.171	3.90	2514	0.01	2000	
Ti	47	2	He	3.030	3.030	9.22	1224	0.25	2000	
Cu	63	1	No Gas	2.336	2.336	1.29	62529	0.00	2000	
Ca	44	1	No Gas	4327.808	4327.808	1.53	4126542	0.10	200000	
Zn	66	1	No Gas	12.391	12.391	1.74	83587	0.01	2000	
Se	82	1	No Gas	-0.264	-0.264	-100.05	337	-0.08	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1468070	1.25	1676119	87.59	70	120	
Ge	72	2	He	1202869	0.43	1163381	103.39	70	120	
Ge	72	1	No Gas	4093530	0.72	4078799	100.36	70	120	

Sample Report

In	115	1	No Gas	5348000	0.49	5144583	103.95	70	120	
Bi	209	1	No Gas	5457125	1.25	4944446	110.37	70	120	

Sample Report

Sample Table

Sample Name	HS24060747-05
Data File Name	152SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:26:15-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	222.168	222.168	0.55	4361463	0.01	2000	
Be	9	1	No Gas	1.415	1.415	3.56	7159	0.02	2000	
V	51	2	He	0.175	0.175	13.17	5336	0.00	2000	
Cr	52	2	He	31.622	31.622	4.10	360726	0.01	2000	
Fe	56	2	He	136843.298	136843.298	3.03	1429896779	0.01	200000	
Se	78	2	He	0.397	0.397	29.18	208	0.19	2000	
As	75	2	He	2.156	2.156	5.85	4058	0.05	2000	
Ca	44	2	He	133260.306	133260.306	2.67	8488574	1.57	200000	
Na	23	2	He	565689.597	565689.597	2.02	976076919	0.06	200000	>LDR
Mg	24	2	He	82805.223	82805.223	3.51	87676142	0.09	200000	
K	39	2	He	13563.997	13563.997	2.68	16618501	0.08	200000	
Mn	55	2	He	5888.804	5888.804	2.71	49703168	0.01	2000	>LDR
Co	59	2	He	28.879	28.879	3.51	492147	0.01	2000	
Ni	60	2	He	76.215	76.215	4.56	333103	0.02	2000	
Cu	63	2	He	2.271	2.271	2.55	27394	0.01	2000	
Zn	66	2	He	383.986	383.986	2.82	832308	0.05	2000	
Al	27	2	He	101.735	101.735	4.52	67773	0.15	2000	
B	11	1	No Gas	39.636	39.636	1.39	127003	0.03	2000	
Al	27	1	No Gas	98.931	98.931	1.84	2422785	0.00	2000	
Si	28	1	No Gas	14786.974	14786.974	0.93	171168791	0.01	2000	>LDR
Ag	107	1	No Gas	-0.002	-0.002	-246.66	1017	0.00	2000	
Cd	111	1	No Gas	1.030	1.030	2.70	6566	0.02	2000	
Sr	88	1	No Gas	2613.617	2613.617	0.33	164900564	0.00	2000	>LDR
Mo	95	1	No Gas	0.192	0.192	3.66	2510	0.01	2000	
Sn	118	1	No Gas	0.325	0.325	7.12	12993	0.00	2000	
Sb	121	1	No Gas	0.127	0.127	16.14	4111	0.00	2000	
Ba	137	1	No Gas	260.186	260.186	0.47	2758312	0.01	2000	
Tl	205	1	No Gas	0.008	0.008	17.34	3277	0.00	2000	
Tl	203	1	No Gas	0.005	0.005	10.62	1200	0.00	2000	
Pb	208	1	No Gas	0.081	0.081	2.92	13280	0.00	2000	
U	238	1	No Gas	0.022	0.022	17.44	6002	0.00	2000	
Ca	43	2	He	130759.624	130759.624	3.18	488591	26.76	200000	
Sb	121	2	He	0.140	0.140	9.55	1954	0.01	2000	
Ti	47	2	He	1.211	1.211	7.10	463	0.26	2000	
Cu	63	1	No Gas	9.509	9.509	6.40	220840	0.00	2000	
Ca	44	1	No Gas	125735.842	125735.842	0.68	112992035	0.11	200000	
Zn	66	1	No Gas	388.383	388.383	1.19	2405060	0.02	2000	
Se	82	1	No Gas	1.503	1.503	12.76	987	0.15	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1331473	0.80	1676119	79.44	70	120	
Ge	72	2	He	1116403	0.55	1163381	95.96	70	120	
Ge	72	1	No Gas	3882775	0.93	4078799	95.19	70	120	
In	115	1	No Gas	4920983	0.66	5144583	95.65	70	120	
Bi	209	1	No Gas	4834716	0.80	4944446	97.78	70	120	

Sample Report

Sample Table

Sample Name	HS24060747-07
Data File Name	153SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:28:47-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	102.321	102.321	1.43	2333104	0.00	2000	
Be	9	1	No Gas	0.031	0.031	6.49	382	0.01	2000	
V	51	2	He	1.500	1.500	2.14	18931	0.01	2000	
Cr	52	2	He	9.747	9.747	3.38	124648	0.01	2000	
Fe	56	2	He	413.469	413.469	2.38	4514871	0.01	200000	
Se	78	2	He	0.403	0.403	12.83	217	0.19	2000	
As	75	2	He	0.255	0.255	9.59	803	0.03	2000	
Ca	44	2	He	167963.012	167963.012	2.21	11130210	1.51	200000	
Na	23	2	He	283097.183	283097.183	2.05	508306499	0.06	200000	>LDR
Mg	24	2	He	76801.765	76801.765	2.80	84595999	0.09	200000	
K	39	2	He	828.248	828.248	2.64	1172653	0.07	200000	
Mn	55	2	He	47.302	47.302	3.17	416145	0.01	2000	
Co	59	2	He	0.671	0.671	0.90	12676	0.01	2000	
Ni	60	2	He	18.319	18.319	3.57	83613	0.02	2000	
Cu	63	2	He	0.693	0.693	0.70	9223	0.01	2000	
Zn	66	2	He	9.589	9.589	4.52	22539	0.04	2000	
Al	27	2	He	54.512	54.512	2.68	38617	0.14	2000	
B	11	1	No Gas	16.362	16.362	1.45	65863	0.02	2000	
Al	27	1	No Gas	51.399	51.399	1.39	1329721	0.00	2000	
Si	28	1	No Gas	11931.317	11931.317	1.27	142611221	0.01	2000	>LDR
Ag	107	1	No Gas	0.006	0.006	40.34	1330	0.00	2000	
Cd	111	1	No Gas	0.182	0.182	6.08	1220	0.01	2000	
Sr	88	1	No Gas	3213.323	3213.323	1.10	212688983	0.00	2000	>LDR
Mo	95	1	No Gas	0.106	0.106	14.35	1540	0.01	2000	
Sn	118	1	No Gas	0.218	0.218	4.72	11285	0.00	2000	
Sb	121	1	No Gas	0.094	0.094	9.97	3290	0.00	2000	
Ba	137	1	No Gas	428.884	428.884	1.14	4769242	0.01	2000	
Tl	205	1	No Gas	0.006	0.006	25.49	3290	0.00	2000	
Tl	203	1	No Gas	0.007	0.007	35.76	1333	0.00	2000	
Pb	208	1	No Gas	0.175	0.175	2.44	23983	0.00	2000	
U	238	1	No Gas	0.952	0.952	0.91	108322	0.00	2000	
Ca	43	2	He	164331.357	164331.357	2.87	638748	25.73	200000	
Sb	121	2	He	0.094	0.094	6.83	1437	0.01	2000	
Ti	47	2	He	1.066	1.066	7.31	427	0.25	2000	
Cu	63	1	No Gas	2.394	2.394	0.89	62542	0.00	2000	
Ca	44	1	No Gas	161187.817	161187.817	0.96	149484618	0.11	200000	
Zn	66	1	No Gas	9.453	9.453	0.33	63075	0.01	2000	
Se	82	1	No Gas	2.104	2.104	5.68	1253	0.17	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1517249	1.68	1676119	90.52	70	120	
Ge	72	2	He	1161442	0.78	1163381	99.83	70	120	
Ge	72	1	No Gas	4007261	1.12	4078799	98.25	70	120	
In	115	1	No Gas	5162558	0.86	5144583	100.35	70	120	
Bi	209	1	No Gas	5149603	0.07	4944446	104.15	70	120	

Sample Report

Sample Table

Sample Name	HS24060747-09
Data File Name	154SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:31:19-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	137.142	137.142	0.94	3277360	0.00	2000	
Be	9	1	No Gas	0.269	0.269	10.60	1817	0.01	2000	
V	51	2	He	2.819	2.819	4.43	32556	0.01	2000	
Cr	52	2	He	1.340	1.340	3.05	28606	0.00	2000	
Fe	56	2	He	14661.018	14661.018	3.84	160955638	0.01	200000	
Se	78	2	He	0.348	0.348	26.53	211	0.16	2000	
As	75	2	He	14.273	14.273	5.49	26270	0.05	2000	
Ca	44	2	He	366401.717	366401.717	3.60	24517090	1.49	200000	>LDR
Na	23	2	He	962395.605	962395.605	2.56	1744279441	0.06	200000	>LDR
Mg	24	2	He	275937.834	275937.834	3.46	306936962	0.09	200000	>LDR
K	39	2	He	3983.810	3983.810	2.66	5216583	0.08	200000	
Mn	55	2	He	147.464	147.464	3.63	1308386	0.01	2000	
Co	59	2	He	14.244	14.244	3.27	255427	0.01	2000	
Ni	60	2	He	13.795	13.795	4.55	63687	0.02	2000	
Cu	63	2	He	1.558	1.558	3.99	19988	0.01	2000	
Zn	66	2	He	41.011	41.011	3.41	94232	0.04	2000	
Al	27	2	He	34.004	34.004	6.68	24999	0.14	2000	
B	11	1	No Gas	17.175	17.175	1.59	72557	0.02	2000	
Al	27	1	No Gas	32.154	32.154	1.56	835403	0.00	2000	
Si	28	1	No Gas	22446.336	22446.336	0.77	261629569	0.01	2000	>LDR
Ag	107	1	No Gas	0.017	0.017	40.96	1640	0.00	2000	
Cd	111	1	No Gas	0.818	0.818	3.69	5243	0.02	2000	
Sr	88	1	No Gas	7923.135	7923.135	0.48	502521113	0.00	2000	>LDR
Mo	95	1	No Gas	0.180	0.180	5.87	2374	0.01	2000	
Sn	118	1	No Gas	0.408	0.408	8.28	14785	0.00	2000	
Sb	121	1	No Gas	0.307	0.307	5.48	9230	0.00	2000	
Ba	137	1	No Gas	11079.617	11079.617	0.22	118045178	0.01	2000	>LDR
Tl	205	1	No Gas	0.025	0.025	17.35	4161	0.00	2000	
Tl	203	1	No Gas	0.029	0.029	24.97	1767	0.00	2000	
Pb	208	1	No Gas	0.542	0.542	3.96	54791	0.00	2000	
U	238	1	No Gas	2.326	2.326	0.66	227564	0.00	2000	
Ca	43	2	He	358598.694	358598.694	3.82	1407538	25.48	200000	>LDR
Sb	121	2	He	0.293	0.293	3.13	4021	0.01	2000	
Ti	47	2	He	1.805	1.805	21.30	717	0.25	2000	
Cu	63	1	No Gas	8.277	8.277	0.11	194642	0.00	2000	
Ca	44	1	No Gas	354353.188	354353.188	0.11	320842015	0.11	200000	>LDR
Zn	66	1	No Gas	39.283	39.283	2.56	247477	0.02	2000	
Se	82	1	No Gas	3.271	3.271	9.89	1667	0.20	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1604552	2.67	1676119	95.73	70	120	
Ge	72	2	He	1172965	0.97	1163381	100.82	70	120	
Ge	72	1	No Gas	3912538	1.38	4078799	95.92	70	120	
In	115	1	No Gas	4946750	0.62	5144583	96.15	70	120	
Bi	209	1	No Gas	4526355	0.37	4944446	91.54	70	120	

Sample Report

Sample Table

Sample Name	LCS-213798
Data File Name	155SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:33:55-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	28.706	28.706	2.34	871053	0.00	2000	
Be	9	1	No Gas	39.824	39.824	1.72	273241	0.01	2000	
V	51	2	He	45.468	45.468	1.07	482408	0.01	2000	
Cr	52	2	He	45.632	45.632	1.11	558492	0.01	2000	
Fe	56	2	He	4748.628	4748.628	0.94	53826288	0.01	200000	
Se	78	2	He	46.957	46.957	1.45	7966	0.59	2000	
As	75	2	He	46.047	46.047	0.82	86684	0.05	2000	
Ca	44	2	He	4615.138	4615.138	0.65	319686	1.44	200000	
Na	23	2	He	4825.776	4825.776	1.78	9361539	0.05	200000	
Mg	24	2	He	4714.874	4714.874	1.72	5414444	0.09	200000	
K	39	2	He	4698.212	4698.212	1.86	6326620	0.07	200000	
Mn	55	2	He	46.176	46.176	1.28	423490	0.01	2000	
Co	59	2	He	46.486	46.486	0.91	858538	0.01	2000	
Ni	60	2	He	47.058	47.058	2.26	223210	0.02	2000	
Cu	63	2	He	46.458	46.458	1.23	592399	0.01	2000	
Zn	66	2	He	47.400	47.400	1.53	112266	0.04	2000	
Al	27	2	He	64.303	64.303	1.57	47139	0.14	2000	
B	11	1	No Gas	292.657	292.657	1.38	1222622	0.02	2000	
Al	27	1	No Gas	64.566	64.566	1.89	1758851	0.00	2000	
Si	28	1	No Gas	374.589	374.589	1.93	5154045	0.01	2000	
Ag	107	1	No Gas	47.123	47.123	2.53	1684456	0.00	2000	
Cd	111	1	No Gas	45.549	45.549	1.55	324818	0.01	2000	
Sr	88	1	No Gas	65.255	65.255	2.35	4611268	0.00	2000	
Mo	95	1	No Gas	44.874	44.874	2.07	609302	0.01	2000	
Sn	118	1	No Gas	65.384	65.384	2.19	1533771	0.00	2000	
Sb	121	1	No Gas	47.266	47.266	1.70	1450566	0.00	2000	
Ba	137	1	No Gas	45.579	45.579	2.43	541465	0.01	2000	
Tl	205	1	No Gas	44.520	44.520	1.46	3701567	0.00	2000	
Tl	203	1	No Gas	44.038	44.038	1.65	1491099	0.00	2000	
Pb	208	1	No Gas	46.509	46.509	1.43	5291608	0.00	2000	
U	238	1	No Gas	30.684	30.684	1.72	3663554	0.00	2000	
Ca	43	2	He	4644.901	4644.901	3.89	18866	24.62	200000	
Sb	121	2	He	46.783	46.783	0.82	623752	0.01	2000	
Ti	47	2	He	80.164	80.164	0.74	32138	0.25	2000	
Cu	63	1	No Gas	47.170	47.170	1.14	1173648	0.00	2000	
Ca	44	1	No Gas	4747.857	4747.857	1.97	4709726	0.10	200000	
Zn	66	1	No Gas	46.517	46.517	2.17	318691	0.01	2000	
Se	82	1	No Gas	46.152	46.152	4.75	19608	0.24	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1850979	1.18	1676119	110.43	70	120	
Ge	72	2	He	1210438	1.36	1163381	104.04	70	120	
Ge	72	1	No Gas	4260550	0.93	4078799	104.46	70	120	

Sample Report

In	115	1	No Gas	5507053	0.40	5144583	107.05	70	120	
Bi	209	1	No Gas	5604463	0.22	4944446	113.35	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	157_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:38:43-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.454	10.5	99199	0.9	0.5	
Be	9	1	No Gas	0.005	84.8	252	9.8	0.5	
V	51	2	He	-0.211	-3.6	1720	4.5	2.5	
Cr	52	2	He	-0.494	-5.4	7596	3.2	2.5	
Fe	56	2	He	0.809	6.2	30417	2.9	100	
Se	78	2	He	-0.039	-95.2	153	3.3	2	
As	75	2	He	-0.030	-35.3	303	6.6	2.5	
Ca	44	2	He	2.475	80.9	1127	13.4	100	
Na	23	2	He	5.376	36.8	344386	1.7	100	
Mg	24	2	He	0.305	45.9	1277	11.8	100	
K	39	2	He	-10.780	-17.3	115430	1.8	100	
Mn	55	2	He	0.161	4.9	2340	3.7	2.5	
Co	59	2	He	0.002	310.0	867	10.9	2.5	
Ni	60	2	He	0.028	73.1	573	18.2	2.5	
Cu	63	2	He	0.043	15.6	1337	5.5	2	
Zn	66	2	He	0.679	15.5	2570	9.7	2.5	
Al	27	2	He	-0.892	-13.5	1240	6.5	5	
B	11	1	No Gas	3.183	13.6	22793	7.7	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.977	-7.0	41549	4.3	5	
Si	28	1	No Gas	-1.910	-9.3	376744	0.3	10	
Ag	107	1	No Gas	-0.019	-13.5	527	17.1	2.5	
Cd	111	1	No Gas	-0.002	-145.3	-12	-170.1	1	
Sr	88	1	No Gas	-0.026	-3.6	1860	3.8	2.5	
Mo	95	1	No Gas	0.054	16.1	930	12.7	2.5	
Sn	118	1	No Gas	0.016	92.8	7255	4.9	5	
Sb	121	1	No Gas	0.189	16.8	6342	15.2	2.5	
Ba	137	1	No Gas	0.022	82.1	1070	19.2	2.5	
Tl	205	1	No Gas	0.013	49.0	4217	13.1	1	
Tl	203	1	No Gas	0.017	12.4	1797	4.3	1	
Pb	208	1	No Gas	0.002	77.2	6511	3.0	2.5	
U	238	1	No Gas	0.006	47.4	5104	7.0	2.5	
Ca	43	2	He	8.671	103.4	80	45.1	100	
Sb	121	2	He	0.146	2.5	2184	3.2	2.5	
Ti	47	2	He	-0.035	-41.6	3	173.2	2.5	
Cu	63	1	No Gas	-0.166	-4.2	3174	5.1	2.5	
Se	82	1	No Gas	-0.270	-45.5	343	14.9	2	
Zr	90	1	No Gas	0.178	22.5	9180	19.2	2.5	
Zr	90	2	He	0.119	9.3	3914	6.0	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1629525	0.85	1676119	97.22	70	120	
Ge	72	2	He	1208116	1.09	1163381	103.85	70	120	
Ge	72	1	No Gas	4207683	0.27	4078799	103.16	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5458599	0.26	5144583	106.10	70	120	
Bi	209	1	No Gas	5634105	0.33	4944446	113.95	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	160_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:52:05-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	94.727	2.471	2053639	2.50	100	94.7	90	110	
Be	9	1	No Gas	100.967	2.094	537938	2.25	100	101.0	90	110	
V	51	2	He	98.163	1.264	988621	1.89	100	98.2	90	110	
Cr	52	2	He	98.420	1.459	1133569	1.93	100	98.4	90	110	
Fe	56	2	He	9429.504	1.052	101884568	1.58	10000	94.3	90	110	
Se	78	2	He	100.034	0.262	16008	1.40	100	100.0	90	110	
As	75	2	He	97.384	2.096	174439	3.18	100	97.4	90	110	
Ca	44	2	He	9003.431	0.772	593793	1.76	10000	90.0	90	110	
Na	23	2	He	9134.974	1.429	16609433	1.95	10000	91.3	90	110	
Mg	24	2	He	9246.090	1.872	10122249	2.31	10000	92.5	90	110	
K	39	2	He	9209.335	1.178	11704568	1.61	10000	92.1	90	110	
Mn	55	2	He	97.305	1.013	849924	1.77	100	97.3	90	110	
Co	59	2	He	100.127	0.864	1762218	1.79	100	100.1	90	110	
Ni	60	2	He	99.279	0.536	448484	1.11	100	99.3	90	110	
Cu	63	2	He	99.725	1.027	1211579	1.99	100	99.7	90	110	
Zn	66	2	He	99.110	1.845	222813	2.76	100	99.1	90	110	
Al	27	2	He	95.537	1.678	65914	2.59	100	95.5	90	110	
B	11	1	No Gas	464.198	1.256	1500924	1.43	500	92.8	90	110	
Al	27	1	No Gas	98.879	1.732	2468444	1.76	100	98.9	90	110	
Si	28	1	No Gas	481.488	1.886	6045715	1.78	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.494	2.677	3367670	1.56	100	100.5	90	110	
Cd	111	1	No Gas	101.219	2.662	676956	1.64	100	101.2	90	110	
Sr	88	1	No Gas	99.870	2.932	6616722	1.92	100	99.9	90	110	
Mo	95	1	No Gas	97.098	2.193	1236270	1.14	100	97.1	90	110	
Sn	118	1	No Gas	102.844	2.160	2258925	1.32	100	102.8	90	110	
Sb	121	1	No Gas	109.601	1.424	3123276	1.49	100	109.6	90	110	
Ba	137	1	No Gas	102.548	2.289	1141538	1.19	100	102.5	90	110	
Tl	205	1	No Gas	106.156	1.934	8452439	1.09	100	106.2	90	110	
Tl	203	1	No Gas	106.435	1.492	3451367	0.66	100	106.4	90	110	
Pb	208	1	No Gas	102.627	1.415	11180800	0.76	100	102.6	90	110	
U	238	1	No Gas	96.692	1.190	11052592	0.43	100	96.7	90	110	
Ca	43	2	He	9016.196	1.585	34867	1.39	10000	90.2	90	110	
Sb	121	2	He	103.951	2.529	1321132	2.94	100	104.0	90	110	
Ti	47	2	He	95.061	1.926	36341	3.02	100	95.1	90	110	
Cu	63	1	No Gas	102.840	1.471	2368685	1.61	100	102.8	90	110	
Se	82	1	No Gas	103.627	3.459	40354	3.61	100	103.6	90	110	
Zr	90	1	No Gas	51.966	3.069	2151762	1.98	100	52.0	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.682	2.189	851150	2.82	100	51.7	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1438259	0.29	1676119	85.81	70	120	
Ge	72	2	He	1154127	1.15	1163381	99.20	70	120	
Ge	72	1	No Gas	3957525	0.30	4078799	97.03	70	120	
In	115	1	No Gas	5165893	1.10	5144583	100.41	70	120	
Bi	209	1	No Gas	5370438	0.86	4944446	108.62	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	161_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:54:29-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	95.610	1.029	2041240	1.54	100	95.6	90	110	
Be	9	1	No Gas	102.485	1.168	537906	1.73	100	102.5	90	110	
V	51	2	He	100.231	2.105	1008073	2.45	100	100.2	90	110	
Cr	52	2	He	99.401	1.781	1143273	2.02	100	99.4	90	110	
Fe	56	2	He	9487.578	1.447	102378175	1.53	10000	94.9	90	110	
Se	78	2	He	100.827	1.131	16114	1.83	100	100.8	90	110	
As	75	2	He	99.027	1.910	177131	2.46	100	99.0	90	110	
Ca	44	2	He	9248.044	2.846	609103	3.06	10000	92.5	90	110	
Na	23	2	He	9343.703	2.234	16957993	1.67	10000	93.4	90	110	
Mg	24	2	He	9480.477	2.534	10365035	2.52	10000	94.8	90	110	
K	39	2	He	9539.387	2.440	12103944	2.51	10000	95.4	90	110	
Mn	55	2	He	98.323	1.005	857667	1.13	100	98.3	90	110	
Co	59	2	He	101.307	1.434	1780573	1.38	100	101.3	90	110	
Ni	60	2	He	100.589	1.764	453808	1.75	100	100.6	90	110	
Cu	63	2	He	101.821	2.086	1235372	2.30	100	101.8	90	110	
Zn	66	2	He	101.613	0.835	228098	1.08	100	101.6	90	110	
Al	27	2	He	98.933	3.430	68105	3.72	100	98.9	90	110	
B	11	1	No Gas	474.009	0.830	1509610	1.12	500	94.8	90	110	
Al	27	1	No Gas	98.338	1.682	2466195	1.61	100	98.3	90	110	
Si	28	1	No Gas	477.698	2.043	6027787	1.88	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.702	1.747	3408189	1.15	100	102.7	90	110	
Cd	111	1	No Gas	103.567	1.708	685919	1.15	100	103.6	90	110	
Sr	88	1	No Gas	101.126	1.525	6634884	0.97	100	101.1	90	110	
Mo	95	1	No Gas	99.077	1.327	1249165	0.76	100	99.1	90	110	
Sn	118	1	No Gas	103.712	2.198	2255601	1.61	100	103.7	90	110	
Sb	121	1	No Gas	108.511	1.834	3105971	1.82	100	108.5	90	110	
Ba	137	1	No Gas	102.938	2.375	1134672	1.78	100	102.9	90	110	
Tl	205	1	No Gas	107.679	0.207	8556904	1.28	100	107.7	90	110	
Tl	203	1	No Gas	106.389	0.368	3443058	1.45	100	106.4	90	110	
Pb	208	1	No Gas	103.679	0.723	11273002	1.69	100	103.7	90	110	
U	238	1	No Gas	97.779	1.169	11155154	2.18	100	97.8	90	110	
Ca	43	2	He	9412.011	3.365	36351	3.41	10000	94.1	90	110	
Sb	121	2	He	106.238	1.856	1348364	1.74	100	106.2	90	110	
Ti	47	2	He	99.646	1.382	38039	1.63	100	99.6	90	110	
Cu	63	1	No Gas	102.521	1.092	2371827	1.04	100	102.5	90	110	
Se	82	1	No Gas	105.180	0.548	41133	0.62	100	105.2	90	110	
Zr	90	1	No Gas	51.952	1.240	2130377	0.82	100	52.0	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.813	2.369	852060	1.83	100	51.8	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1416842	0.58	1676119	84.53	70	120	
Ge	72	2	He	1152678	1.29	1163381	99.08	70	120	
Ge	72	1	No Gas	3975139	0.12	4078799	97.46	70	120	
In	115	1	No Gas	5115001	0.60	5144583	99.43	70	120	
Bi	209	1	No Gas	5359255	1.09	4944446	108.39	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	172_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:22:50-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	95.580	1.895	1924077	2.36	100	95.6	90	110	
Be	9	1	No Gas	102.052	1.189	505031	1.80	100	102.1	90	110	
V	51	2	He	100.677	2.254	950090	2.82	100	100.7	90	110	
Cr	52	2	He	101.574	2.157	1095938	2.63	100	101.6	90	110	
Fe	56	2	He	9627.994	2.805	97487762	3.24	10000	96.3	90	110	
Se	78	2	He	101.565	0.972	15229	1.72	100	101.6	90	110	
As	75	2	He	99.941	1.207	167718	1.41	100	99.9	90	110	
Ca	44	2	He	9215.957	1.478	569548	2.16	10000	92.2	90	110	
Na	23	2	He	9295.562	0.907	15832876	1.66	10000	93.0	90	110	
Mg	24	2	He	9426.381	0.900	9670489	1.75	10000	94.3	90	110	
K	39	2	He	9415.508	0.754	11211536	1.70	10000	94.2	90	110	
Mn	55	2	He	99.289	2.112	812660	2.50	100	99.3	90	110	
Co	59	2	He	102.382	2.791	1688418	2.90	100	102.4	90	110	
Ni	60	2	He	101.173	1.921	428280	2.16	100	101.2	90	110	
Cu	63	2	He	102.639	2.240	1168457	2.62	100	102.6	90	110	
Zn	66	2	He	100.921	2.465	212588	3.06	100	100.9	90	110	
Al	27	2	He	98.265	1.868	63487	2.99	100	98.3	90	110	
B	11	1	No Gas	465.428	1.100	1397790	1.59	500	93.1	90	110	
Al	27	1	No Gas	97.662	1.475	2324431	1.75	100	97.7	90	110	
Si	28	1	No Gas	473.760	1.343	5675407	1.55	5000	9.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.055	1.476	3255687	1.72	100	102.1	90	110	
Cd	111	1	No Gas	102.446	1.922	652250	2.16	100	102.4	90	110	
Sr	88	1	No Gas	99.779	1.823	6293305	2.08	100	99.8	90	110	
Mo	95	1	No Gas	97.436	2.300	1180965	2.57	100	97.4	90	110	
Sn	118	1	No Gas	103.598	0.571	2165979	0.83	100	103.6	90	110	
Sb	121	1	No Gas	109.473	1.267	2973290	1.58	100	109.5	90	110	
Ba	137	1	No Gas	103.012	1.275	1091588	1.51	100	103.0	90	110	
Tl	205	1	No Gas	105.893	1.081	8195735	1.52	100	105.9	90	110	
Tl	203	1	No Gas	105.641	1.615	3329763	2.00	100	105.6	90	110	
Pb	208	1	No Gas	102.433	0.464	10847005	0.85	100	102.4	90	110	
U	238	1	No Gas	96.994	1.002	10776499	1.36	100	97.0	90	110	
Ca	43	2	He	9326.807	1.915	33805	3.05	10000	93.3	90	110	
Sb	121	2	He	107.828	1.262	1284226	2.19	100	107.8	90	110	
Ti	47	2	He	100.082	2.807	35847	2.85	100	100.1	90	110	
Cu	63	1	No Gas	101.873	0.892	2236381	1.26	100	101.9	90	110	
Se	82	1	No Gas	102.053	3.321	37883	3.66	100	102.1	90	110	
Zr	90	1	No Gas	50.844	1.598	2004268	1.86	100	50.8	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.937	1.894	801568	2.90	100	51.9	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1335890	0.61	1676119	79.70	70	120	
Ge	72	2	He	1081518	1.18	1163381	92.96	70	120	
Ge	72	1	No Gas	3771797	0.38	4078799	92.47	70	120	
In	115	1	No Gas	4916677	0.27	5144583	95.57	70	120	
Bi	209	1	No Gas	5219533	0.48	4944446	105.56	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	173_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:25:15-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.210	15.7	81183	0.9	0.5	
Be	9	1	No Gas	0.098	33.3	708	24.0	0.5	
V	51	2	He	-0.160	-3.5	2062	2.9	2.5	
Cr	52	2	He	-0.456	-9.6	7372	6.1	2.5	
Fe	56	2	He	4.450	13.4	65575	9.7	100	
Se	78	2	He	0.089	78.2	159	6.2	2	
As	75	2	He	0.015	205.8	354	14.6	2.5	
Ca	44	2	He	5.360	47.8	1213	13.6	100	
Na	23	2	He	-57.326	-2.3	208188	1.3	100	
Mg	24	2	He	3.688	18.3	4721	15.1	100	
K	39	2	He	-2.227	-64.3	116029	1.9	100	
Mn	55	2	He	0.213	6.1	2577	4.8	2.5	
Co	59	2	He	0.037	22.6	1390	10.4	2.5	
Ni	60	2	He	0.102	18.8	843	10.4	2.5	
Cu	63	2	He	0.071	10.4	1543	5.5	2	
Zn	66	2	He	0.766	6.4	2540	4.6	2.5	
Al	27	2	He	-0.807	-12.4	1190	5.0	5	
B	11	1	No Gas	3.007	18.4	19240	9.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.863	-5.5	40596	2.7	5	
Si	28	1	No Gas	0.423	95.6	370315	0.5	10	
Ag	107	1	No Gas	0.053	51.6	2840	31.0	2.5	
Cd	111	1	No Gas	0.094	32.4	616	31.7	1	
Sr	88	1	No Gas	0.063	50.8	7419	27.2	2.5	
Mo	95	1	No Gas	0.146	25.8	2000	22.9	2.5	
Sn	118	1	No Gas	0.091	22.0	8273	4.6	5	
Sb	121	1	No Gas	0.097	28.5	3230	23.8	2.5	
Ba	137	1	No Gas	0.095	36.1	1777	20.3	2.5	
Tl	205	1	No Gas	0.113	34.1	11970	27.3	1	
Tl	203	1	No Gas	0.111	35.9	4761	28.9	1	
Pb	208	1	No Gas	0.096	36.7	16471	25.2	2.5	
U	238	1	No Gas	0.087	39.5	14176	29.6	2.5	
Ca	43	2	He	5.972	93.2	63	32.9	100	
Sb	121	2	He	0.057	12.7	917	9.8	2.5	
Ti	47	2	He	0.011	244.1	20	50.0	2.5	
Cu	63	1	No Gas	-0.086	-47.4	4671	19.1	2.5	
Se	82	1	No Gas	-0.135	-166.4	363	22.2	2	
Zr	90	1	No Gas	0.077	31.9	4367	22.1	2.5	
Zr	90	2	He	0.037	37.5	2290	10.1	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1415964	0.17	1676119	84.48	70	120	
Ge	72	2	He	1106349	0.55	1163381	95.10	70	120	
Ge	72	1	No Gas	3838591	0.89	4078799	94.11	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5033074	0.60	5144583	97.83	70	120	
Bi	209	1	No Gas	5363685	1.73	4944446	108.48	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	176SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:41:21-05:00
Sample Type	Sample
Dilution	10
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.714	17.144	4.27	113877	0.00	2000	
Be	9	1	No Gas	0.004	0.040	85.66	218	0.00	2000	
V	51	2	He	0.004	0.045	218.61	3696	0.00	2000	
Cr	52	2	He	-0.345	-3.454	-3.51	8700	0.00	2000	
Fe	56	2	He	22.531	225.305	1.47	256254	0.01	200000	
Se	78	2	He	0.122	1.223	138.69	167	0.07	2000	
As	75	2	He	0.014	0.136	104.18	357	0.00	2000	
Ca	44	2	He	1590.695	15906.950	2.58	102670	1.55	200000	
Na	23	2	He	18192.815	181928.152	1.28	31835337	0.06	200000	
Mg	24	2	He	864.203	8642.026	1.50	920125	0.09	200000	
K	39	2	He	106.483	1064.826	0.85	250443	0.04	200000	
Mn	55	2	He	20.642	206.421	1.69	175835	0.01	2000	
Co	59	2	He	0.096	0.957	11.61	2410	0.00	2000	
Ni	60	2	He	0.418	4.178	7.71	2240	0.02	2000	
Cu	63	2	He	0.133	1.326	10.43	2294	0.01	2000	
Zn	66	2	He	6.547	65.466	1.58	15149	0.04	2000	
Al	27	2	He	2.315	23.154	18.46	3244	0.07	2000	
B	11	1	No Gas	1.251	12.511	7.61	13910	0.01	2000	
Al	27	1	No Gas	2.563	25.632	11.55	123924	0.00	2000	
Si	28	1	No Gas	2361.573	23615.726	2.26	27894256	0.01	2000	>LDR
Ag	107	1	No Gas	-0.007	-0.075	-7.87	870	0.00	2000	
Cd	111	1	No Gas	0.019	0.191	43.40	128	0.01	2000	
Sr	88	1	No Gas	24.999	249.995	2.22	1631385	0.00	2000	
Mo	95	1	No Gas	0.019	0.186	32.36	420	0.00	2000	
Sn	118	1	No Gas	0.229	2.293	8.80	11338	0.00	2000	
Sb	121	1	No Gas	0.024	0.240	19.52	1250	0.00	2000	
Ba	137	1	No Gas	20.170	201.698	0.64	221401	0.01	2000	
Tl	205	1	No Gas	0.000	0.000	-2182.88	2940	0.00	2000	
Tl	203	1	No Gas	-0.002	-0.022	-109.08	1073	0.00	2000	
Pb	208	1	No Gas	0.007	0.068	15.25	6627	0.00	2000	
U	238	1	No Gas	0.061	0.607	4.63	11012	0.00	2000	
Ca	43	2	He	1648.108	16481.078	3.58	6228	26.46	200000	
Sb	121	2	He	0.016	0.161	39.95	427	0.00	2000	
Ti	47	2	He	0.145	1.451	31.82	70	0.21	2000	
Cu	63	1	No Gas	0.021	0.214	55.26	7209	0.00	2000	
Ca	44	1	No Gas	1618.164	16181.638	1.83	1492926	0.11	200000	
Zn	66	1	No Gas	6.228	62.275	1.58	41526	0.01	2000	
Se	82	1	No Gas	-0.016	-0.157	-1126.35	417	0.00	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1438714	0.39	1676119	85.84	70	120	
Ge	72	2	He	1121471	0.38	1163381	96.40	70	120	
Ge	72	1	No Gas	3917207	0.34	4078799	96.04	70	120	

Sample Report

In	115	1	No Gas	5079107	0.10	5144583	98.73	70	120	
Bi	209	1	No Gas	5322337	0.52	4944446	107.64	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	177SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:43:45-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	53.144	106.289	2.02	1106292	0.00	2000	
Be	9	1	No Gas	24.224	48.449	2.76	120482	0.02	2000	
V	51	2	He	24.028	48.056	1.58	230324	0.01	2000	
Cr	52	2	He	24.165	48.331	2.09	270983	0.01	2000	
Fe	56	2	He	2541.617	5083.235	1.72	25849239	0.01	200000	
Se	78	2	He	25.072	50.144	4.26	3882	0.65	2000	
As	75	2	He	24.496	48.992	1.46	41515	0.06	2000	
Ca	44	2	He	10020.180	20040.361	1.37	621586	1.61	200000	
Na	23	2	He	89736.794	179473.588	1.40	150843014	0.06	200000	
Mg	24	2	He	6588.058	13176.116	2.04	6785336	0.10	200000	
K	39	2	He	2946.774	5893.549	1.25	3602602	0.08	200000	
Mn	55	2	He	119.616	239.232	0.95	982710	0.01	2000	
Co	59	2	He	24.565	49.131	2.01	407299	0.01	2000	
Ni	60	2	He	25.193	50.385	0.99	107360	0.02	2000	
Cu	63	2	He	24.602	49.204	2.67	281711	0.01	2000	
Zn	66	2	He	30.319	60.639	0.51	64729	0.05	2000	
Al	27	2	He	53.602	107.204	2.69	35525	0.15	2000	
B	11	1	No Gas	216.679	433.357	1.43	658207	0.03	2000	
Al	27	1	No Gas	51.452	102.904	2.57	1263022	0.00	2000	
Si	28	1	No Gas	11309.789	22619.577	2.90	128295001	0.01	2000	>LDR
Ag	107	1	No Gas	23.964	47.927	2.22	763984	0.00	2000	
Cd	111	1	No Gas	24.308	48.617	1.75	154512	0.02	2000	
Sr	88	1	No Gas	162.713	325.426	3.03	10241929	0.00	2000	
Mo	95	1	No Gas	23.508	47.015	2.48	284555	0.01	2000	
Sn	118	1	No Gas	42.464	84.928	1.91	889975	0.00	2000	
Sb	121	1	No Gas	25.318	50.636	1.08	693624	0.00	2000	
Ba	137	1	No Gas	121.518	243.036	2.96	1285260	0.01	2000	
Tl	205	1	No Gas	20.220	40.441	2.76	1532825	0.00	2000	
Tl	203	1	No Gas	20.231	40.461	1.75	624509	0.00	2000	
Pb	208	1	No Gas	23.625	47.251	1.33	2451071	0.00	2000	
U	238	1	No Gas	43.656	87.312	0.91	4745844	0.00	2000	
Ca	43	2	He	9982.687	19965.375	2.37	36318	27.49	200000	
Sb	121	2	He	25.598	51.196	1.22	306217	0.01	2000	
Ti	47	2	He	67.596	135.192	0.59	24311	0.28	2000	
Cu	63	1	No Gas	24.876	49.751	2.17	555416	0.00	2000	
Ca	44	1	No Gas	9963.888	19927.777	1.75	8792213	0.11	200000	
Zn	66	1	No Gas	28.548	57.096	0.81	175528	0.02	2000	
Se	82	1	No Gas	24.234	48.467	5.86	9380	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1341212	0.53	1676119	80.02	70	120	
Ge	72	2	He	1085752	0.32	1163381	93.33	70	120	
Ge	72	1	No Gas	3802419	0.30	4078799	93.22	70	120	

Sample Report

In	115	1	No Gas	4909495	1.62	5144583	95.43	70	120	
Bi	209	1	No Gas	5104730	0.73	4944446	103.24	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	178SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:46:13-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	53.272	106.545	1.81	1107681	0.00	2000	
Be	9	1	No Gas	24.081	48.161	1.66	119653	0.02	2000	
V	51	2	He	23.906	47.811	1.92	229339	0.01	2000	
Cr	52	2	He	23.941	47.881	1.93	268773	0.01	2000	
Fe	56	2	He	2513.312	5026.624	1.98	25581056	0.01	200000	
Se	78	2	He	24.770	49.541	0.19	3840	0.65	2000	
As	75	2	He	24.159	48.318	1.67	40978	0.06	2000	
Ca	44	2	He	9926.309	19852.618	2.24	616209	1.61	200000	
Na	23	2	He	89013.439	178026.878	2.03	149733861	0.06	200000	
Mg	24	2	He	6520.049	13040.099	1.54	6720233	0.10	200000	
K	39	2	He	2918.474	5836.948	1.83	3571822	0.08	200000	
Mn	55	2	He	118.746	237.493	2.57	976269	0.01	2000	
Co	59	2	He	24.370	48.740	2.45	404367	0.01	2000	
Ni	60	2	He	25.103	50.205	1.95	107056	0.02	2000	
Cu	63	2	He	24.406	48.812	1.04	279682	0.01	2000	
Zn	66	2	He	28.697	57.394	1.49	61364	0.05	2000	
Al	27	2	He	54.214	108.427	1.14	35943	0.15	2000	
B	11	1	No Gas	217.805	435.611	1.95	660912	0.03	2000	
Al	27	1	No Gas	51.443	102.885	3.51	1266173	0.00	2000	
Si	28	1	No Gas	11297.009	22594.017	3.20	128492805	0.01	2000	>LDR
Ag	107	1	No Gas	23.911	47.822	1.80	764185	0.00	2000	
Cd	111	1	No Gas	24.214	48.428	2.20	154275	0.02	2000	
Sr	88	1	No Gas	162.162	324.325	1.89	10233270	0.00	2000	
Mo	95	1	No Gas	23.417	46.833	1.88	284159	0.01	2000	
Sn	118	1	No Gas	42.754	85.508	1.60	898193	0.00	2000	
Sb	121	1	No Gas	25.574	51.148	2.39	702497	0.00	2000	
Ba	137	1	No Gas	123.291	246.582	2.03	1307308	0.01	2000	
Tl	205	1	No Gas	20.028	40.057	2.11	1538133	0.00	2000	
Tl	203	1	No Gas	20.152	40.305	1.88	630270	0.00	2000	
Pb	208	1	No Gas	23.578	47.156	1.83	2478322	0.00	2000	
U	238	1	No Gas	43.270	86.539	0.85	4765983	0.00	2000	
Ca	43	2	He	10320.470	20640.941	1.72	37571	27.47	200000	
Sb	121	2	He	25.233	50.466	1.81	302069	0.01	2000	
Ti	47	2	He	66.163	132.327	2.25	23817	0.28	2000	
Cu	63	1	No Gas	24.951	49.901	3.00	558560	0.00	2000	
Ca	44	1	No Gas	9912.366	19824.731	3.34	8769989	0.11	200000	
Zn	66	1	No Gas	28.506	57.012	2.84	175743	0.02	2000	
Se	82	1	No Gas	23.735	47.469	4.64	9220	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1339822	0.21	1676119	79.94	70	120	
Ge	72	2	He	1086649	1.03	1163381	93.40	70	120	
Ge	72	1	No Gas	3812922	0.73	4078799	93.48	70	120	

Sample Report

In	115	1	No Gas	4920664	0.49	5144583	95.65	70	120	
Bi	209	1	No Gas	5171875	1.22	4944446	104.60	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	179SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:48:41-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	7.707	15.414	0.96	223574	0.00	2000	
Be	9	1	No Gas	48.157	96.314	1.99	240289	0.02	2000	
V	51	2	He	47.847	95.693	0.86	455329	0.01	2000	
Cr	52	2	He	47.520	95.041	0.99	521399	0.01	2000	
Fe	56	2	He	4968.057	9936.115	0.74	50530004	0.01	200000	
Se	78	2	He	50.017	100.033	2.53	7605	0.66	2000	
As	75	2	He	48.381	96.761	1.88	81718	0.06	2000	
Ca	44	2	He	12105.104	24210.208	1.61	751063	1.61	200000	
Na	23	2	He	90458.522	180917.044	1.52	152113931	0.06	200000	
Mg	24	2	He	8923.691	17847.382	1.44	9195351	0.10	200000	
K	39	2	He	5334.231	10668.461	1.44	6430191	0.08	200000	
Mn	55	2	He	141.918	283.836	0.74	1166289	0.01	2000	
Co	59	2	He	48.584	97.168	1.11	805134	0.01	2000	
Ni	60	2	He	49.806	99.613	0.94	211973	0.02	2000	
Cu	63	2	He	48.379	96.759	1.35	553540	0.01	2000	
Zn	66	2	He	54.581	109.162	1.24	115869	0.05	2000	
Al	27	2	He	52.916	105.832	1.35	35104	0.15	2000	
B	11	1	No Gas	8.152	16.304	4.24	33768	0.02	2000	
Al	27	1	No Gas	51.167	102.334	2.88	1246655	0.00	2000	
Si	28	1	No Gas	11206.201	22412.401	2.82	126141208	0.01	2000	>LDR
Ag	107	1	No Gas	48.865	97.730	1.89	1564980	0.00	2000	
Cd	111	1	No Gas	48.402	96.804	1.52	309261	0.02	2000	
Sr	88	1	No Gas	118.276	236.551	2.31	7485776	0.00	2000	
Mo	95	1	No Gas	46.542	93.084	2.21	566199	0.01	2000	
Sn	118	1	No Gas	0.203	0.405	3.92	10458	0.00	2000	
Sb	121	1	No Gas	49.781	99.561	2.29	1352761	0.00	2000	
Ba	137	1	No Gas	144.825	289.650	2.44	1539824	0.01	2000	
Tl	205	1	No Gas	47.516	95.032	1.20	3621288	0.00	2000	
Tl	203	1	No Gas	47.247	94.494	1.25	1466398	0.00	2000	
Pb	208	1	No Gas	47.325	94.649	1.60	4935674	0.00	2000	
U	238	1	No Gas	0.346	0.693	5.81	41851	0.00	2000	
Ca	43	2	He	11939.673	23879.345	1.25	43445	27.48	200000	
Sb	121	2	He	49.531	99.062	1.83	592570	0.01	2000	
Ti	47	2	He	49.858	99.716	2.09	17942	0.28	2000	
Cu	63	1	No Gas	48.719	97.439	2.03	1073256	0.00	2000	
Ca	44	1	No Gas	12328.855	24657.709	3.08	10788695	0.11	200000	
Zn	66	1	No Gas	52.739	105.479	2.72	319586	0.02	2000	
Se	82	1	No Gas	48.568	97.136	3.97	18249	0.27	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1346434	0.16	1676119	80.33	70	120	
Ge	72	2	He	1086243	0.95	1163381	93.37	70	120	
Ge	72	1	No Gas	3773611	1.10	4078799	92.52	70	120	

Sample Report

In	115	1	No Gas	4934465	0.27	5144583	95.92	70	120	
Bi	209	1	No Gas	5137205	0.94	4944446	103.90	70	120	

Sample Report

Sample Table

Sample Name	HS24060747-05
Data File Name	182SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:03:04-05:00
Sample Type	Sample
Dilution	50
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	5.185	259.237	2.48	183008	0.00	2000	
Be	9	1	No Gas	0.039	1.938	8.63	397	0.01	2000	
V	51	2	He	-0.125	-6.247	-13.10	2416	-0.01	2000	
Cr	52	2	He	0.150	7.503	24.37	14067	0.00	2000	
Fe	56	2	He	3126.651	156332.535	1.78	32580462	0.01	200000	
Se	78	2	He	0.014	0.713	862.79	149	0.01	2000	
As	75	2	He	0.019	0.955	55.01	363	0.01	2000	
Ca	44	2	He	2900.581	145029.065	2.14	185020	1.57	200000	
Na	23	2	He	12549.771	627488.537	1.63	21881361	0.06	200000	
Mg	24	2	He	1869.825	93491.238	0.95	1973966	0.09	200000	
K	39	2	He	294.778	14738.876	1.90	476674	0.06	200000	
Mn	55	2	He	133.215	6660.732	1.85	1121403	0.01	2000	
Co	59	2	He	0.662	33.088	3.57	11992	0.01	2000	
Ni	60	2	He	1.823	91.155	5.45	8333	0.02	2000	
Cu	63	2	He	0.059	2.966	18.34	1417	0.00	2000	
Zn	66	2	He	9.395	469.741	2.30	21177	0.04	2000	
Al	27	2	He	1.168	58.392	19.44	2474	0.05	2000	
B	11	1	No Gas	0.753	37.662	21.67	12094	0.01	2000	
Al	27	1	No Gas	1.425	71.266	12.53	95818	0.00	2000	
Si	28	1	No Gas	337.652	16882.578	4.06	4276492	0.01	2000	
Ag	107	1	No Gas	-0.011	-0.559	-4.00	743	0.00	2000	
Cd	111	1	No Gas	0.025	1.269	41.63	168	0.02	2000	
Sr	88	1	No Gas	59.348	2967.399	1.90	3846347	0.00	2000	
Mo	95	1	No Gas	0.004	0.215	162.08	240	0.00	2000	
Sn	118	1	No Gas	-0.051	-2.566	-29.47	5265	0.00	2000	
Sb	121	1	No Gas	0.006	0.277	95.31	723	0.00	2000	
Ba	137	1	No Gas	5.935	296.754	1.81	65316	0.01	2000	
Tl	205	1	No Gas	0.004	0.191	151.10	3247	0.00	2000	
Tl	203	1	No Gas	0.009	0.455	60.13	1440	0.00	2000	
Pb	208	1	No Gas	0.006	0.314	71.55	6571	0.00	2000	
U	238	1	No Gas	0.005	0.265	59.93	4741	0.00	2000	
Ca	43	2	He	2902.020	145100.988	1.23	10848	26.75	200000	
Sb	121	2	He	0.006	0.315	32.33	303	0.00	2000	
Ti	47	2	He	0.029	1.451	270.14	27	0.11	2000	
Cu	63	1	No Gas	-0.081	-4.072	-8.29	4838	0.00	2000	
Ca	44	1	No Gas	2904.423	145221.128	3.15	2639578	0.11	200000	
Zn	66	1	No Gas	9.166	458.317	2.18	59439	0.02	2000	
Se	82	1	No Gas	-0.290	-14.513	-45.11	310	-0.09	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1413499	0.17	1676119	84.33	70	120	
Ge	72	2	He	1112590	1.43	1163381	95.63	70	120	
Ge	72	1	No Gas	3889657	1.05	4078799	95.36	70	120	

Sample Report

In	115	1	No Gas	5050689	0.33	5144583	98.17	70	120	
Bi	209	1	No Gas	5327758	1.33	4944446	107.75	70	120	

Sample Report

Sample Table

Sample Name	HS24060747-07
Data File Name	183SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:05:29-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	6.379	127.578	3.02	207262	0.00	2000	
Be	9	1	No Gas	0.002	0.043	352.64	205	0.00	2000	
V	51	2	He	-0.023	-0.461	-60.86	3360	0.00	2000	
Cr	52	2	He	0.048	0.951	50.16	12793	0.00	2000	
Fe	56	2	He	25.280	505.606	1.92	279554	0.01	200000	
Se	78	2	He	0.074	1.478	156.88	156	0.05	2000	
As	75	2	He	-0.037	-0.745	-52.92	263	-0.01	2000	
Ca	44	2	He	9326.390	186527.801	2.81	585916	1.59	200000	
Na	23	2	He	16367.087	327341.737	2.35	28110409	0.06	200000	
Mg	24	2	He	4491.435	89828.693	2.22	4684788	0.10	200000	
K	39	2	He	43.841	876.828	1.73	170513	0.03	200000	
Mn	55	2	He	2.876	57.519	1.99	24696	0.01	2000	
Co	59	2	He	0.036	0.725	9.73	1367	0.00	2000	
Ni	60	2	He	1.111	22.222	0.76	5178	0.02	2000	
Cu	63	2	He	0.040	0.808	50.85	1183	0.00	2000	
Zn	66	2	He	0.646	12.921	10.23	2270	0.03	2000	
Al	27	2	He	2.267	45.346	14.08	3150	0.07	2000	
B	11	1	No Gas	0.612	12.245	7.71	11636	0.01	2000	
Al	27	1	No Gas	2.177	43.548	6.28	112382	0.00	2000	
Si	28	1	No Gas	690.088	13801.767	3.40	8249651	0.01	2000	
Ag	107	1	No Gas	-0.005	-0.108	-69.91	927	0.00	2000	
Cd	111	1	No Gas	0.010	0.195	103.91	65	0.01	2000	
Sr	88	1	No Gas	187.481	3749.614	2.14	12069515	0.00	2000	
Mo	95	1	No Gas	0.018	0.368	6.97	413	0.00	2000	
Sn	118	1	No Gas	-0.058	-1.153	-7.95	5098	0.00	2000	
Sb	121	1	No Gas	0.005	0.093	84.30	690	0.00	2000	
Ba	137	1	No Gas	25.081	501.629	1.42	271920	0.01	2000	
Tl	205	1	No Gas	0.003	0.056	99.79	3134	0.00	2000	
Tl	203	1	No Gas	0.007	0.141	87.87	1357	0.00	2000	
Pb	208	1	No Gas	0.015	0.300	12.19	7431	0.00	2000	
U	238	1	No Gas	0.058	1.161	6.38	10598	0.00	2000	
Ca	43	2	He	9621.131	192422.621	3.21	35449	27.14	200000	
Sb	121	2	He	0.011	0.230	45.66	363	0.00	2000	
Ti	47	2	He	0.002	0.048	1333.35	17	0.01	2000	
Cu	63	1	No Gas	-0.079	-1.585	-21.07	4824	0.00	2000	
Ca	44	1	No Gas	9429.207	188584.132	3.30	8404738	0.11	200000	
Zn	66	1	No Gas	0.673	13.455	4.25	6725	0.01	2000	
Se	82	1	No Gas	-0.252	-5.048	-27.70	320	-0.08	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1411925	0.64	1676119	84.24	70	120	
Ge	72	2	He	1099641	0.90	1163381	94.52	70	120	
Ge	72	1	No Gas	3840833	0.79	4078799	94.17	70	120	

Sample Report

In	115	1	No Gas	5019999	0.33	5144583	97.58	70	120	
Bi	209	1	No Gas	5266503	1.15	4944446	106.51	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	184_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:07:53-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.017	1.230	1916848	1.37	100	96.0	90	110	
Be	9	1	No Gas	103.294	1.737	507031	1.93	100	103.3	90	110	
V	51	2	He	99.303	3.015	939239	2.28	100	99.3	90	110	
Cr	52	2	He	99.183	3.025	1072808	2.22	100	99.2	90	110	
Fe	56	2	He	9483.686	3.124	96237739	2.27	10000	94.8	90	110	
Se	78	2	He	100.185	4.083	15057	3.47	100	100.2	90	110	
As	75	2	He	99.555	2.648	167462	2.11	100	99.6	90	110	
Ca	44	2	He	9154.792	2.976	567048	2.40	10000	91.5	90	110	
Na	23	2	He	9309.643	2.194	15892682	1.47	10000	93.1	90	110	
Mg	24	2	He	9412.361	2.554	9677968	1.90	10000	94.1	90	110	
K	39	2	He	9373.544	1.865	11187793	1.33	10000	93.7	90	110	
Mn	55	2	He	98.550	2.482	808442	1.66	100	98.5	90	110	
Co	59	2	He	101.235	2.673	1673344	1.81	100	101.2	90	110	
Ni	60	2	He	101.102	3.224	428951	2.52	100	101.1	90	110	
Cu	63	2	He	101.894	2.934	1162574	2.07	100	101.9	90	110	
Zn	66	2	He	101.532	1.629	214358	1.14	100	101.5	90	110	
Al	27	2	He	98.829	2.901	63982	2.55	100	98.8	90	110	
B	11	1	No Gas	467.334	1.227	1392117	1.38	500	93.5	90	110	
Al	27	1	No Gas	96.751	1.907	2296660	2.16	100	96.8	90	110	
Si	28	1	No Gas	469.520	1.859	5611497	1.95	5000	9.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.909	0.626	3215092	1.32	100	100.9	90	110	
Cd	111	1	No Gas	102.062	1.566	648988	2.02	100	102.1	90	110	
Sr	88	1	No Gas	99.672	0.722	6278345	1.01	100	99.7	90	110	
Mo	95	1	No Gas	96.890	1.434	1172814	1.61	100	96.9	90	110	
Sn	118	1	No Gas	103.093	1.301	2152715	1.59	100	103.1	90	110	
Sb	121	1	No Gas	109.418	1.271	2963088	1.25	100	109.4	90	110	
Ba	137	1	No Gas	102.416	1.799	1083950	2.39	100	102.4	90	110	
Tl	205	1	No Gas	105.634	1.386	8196864	1.96	100	105.6	90	110	
Tl	203	1	No Gas	105.059	1.254	3319909	1.73	100	105.1	90	110	
Pb	208	1	No Gas	101.583	1.333	10785257	2.13	100	101.6	90	110	
U	238	1	No Gas	96.961	1.189	10800357	1.49	100	97.0	90	110	
Ca	43	2	He	9235.717	3.166	33544	2.09	10000	92.4	90	110	
Sb	121	2	He	105.920	1.797	1264372	1.28	100	105.9	90	110	
Ti	47	2	He	98.635	2.630	35412	2.25	100	98.6	90	110	
Cu	63	1	No Gas	101.563	1.616	2223150	1.95	100	101.6	90	110	
Se	82	1	No Gas	103.576	0.829	38328	0.83	100	103.6	90	110	
Zr	90	1	No Gas	50.669	0.899	1994807	1.22	100	50.7	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.148	2.327	791124	1.53	100	51.1	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1325117	0.65	1676119	79.06	70	120	
Ge	72	2	He	1084144	1.09	1163381	93.19	70	120	
Ge	72	1	No Gas	3760875	0.52	4078799	92.21	70	120	
In	115	1	No Gas	4910483	0.87	5144583	95.45	70	120	
Bi	209	1	No Gas	5232986	0.94	4944446	105.84	70	120	

Sample Report

Sample Table

Sample Name	HS24060747-09
Data File Name	187SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:22:56-05:00
Sample Type	Sample
Dilution	50
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	3.308	165.412	1.89	143947	0.00	2000	
Be	9	1	No Gas	0.018	0.883	34.17	285	0.01	2000	
V	51	2	He	-0.068	-3.392	-6.41	2933	0.00	2000	
Cr	52	2	He	-0.478	-23.892	-1.76	7092	-0.01	2000	
Fe	56	2	He	326.104	16305.180	1.41	3375190	0.01	200000	
Se	78	2	He	-0.020	-0.982	-509.25	142	-0.01	2000	
As	75	2	He	0.321	16.057	11.32	873	0.04	2000	
Ca	44	2	He	7451.644	372582.225	1.18	468318	1.59	200000	
Na	23	2	He	19887.209	994360.443	1.56	34085907	0.06	200000	
Mg	24	2	He	5842.824	292141.199	1.33	6093438	0.10	200000	
K	39	2	He	79.590	3979.482	2.40	213308	0.04	200000	
Mn	55	2	He	3.202	160.117	1.20	27407	0.01	2000	
Co	59	2	He	0.343	17.173	1.60	6515	0.01	2000	
Ni	60	2	He	0.330	16.514	6.59	1820	0.02	2000	
Cu	63	2	He	0.045	2.269	14.80	1240	0.00	2000	
Zn	66	2	He	1.173	58.674	4.54	3394	0.03	2000	
Al	27	2	He	-0.040	-2.007	-297.69	1673	0.00	2000	
B	11	1	No Gas	0.232	11.611	17.65	10406	0.00	2000	
Al	27	1	No Gas	0.119	5.926	68.61	63300	0.00	2000	
Si	28	1	No Gas	460.463	23023.166	1.25	5584690	0.01	2000	
Ag	107	1	No Gas	-0.003	-0.153	-93.35	990	0.00	2000	
Cd	111	1	No Gas	0.031	1.537	17.87	199	0.02	2000	
Sr	88	1	No Gas	169.214	8460.718	1.11	10749943	0.00	2000	
Mo	95	1	No Gas	0.011	0.534	4.38	313	0.00	2000	
Sn	118	1	No Gas	-0.048	-2.380	-5.60	5241	0.00	2000	
Sb	121	1	No Gas	0.012	0.576	46.62	873	0.00	2000	
Ba	137	1	No Gas	243.269	12163.434	1.04	2596079	0.01	2000	
Tl	205	1	No Gas	0.011	0.531	5.27	3721	0.00	2000	
Tl	203	1	No Gas	0.012	0.586	35.23	1497	0.00	2000	
Pb	208	1	No Gas	0.024	1.181	16.88	8305	0.00	2000	
U	238	1	No Gas	0.060	3.020	3.70	10798	0.00	2000	
Ca	43	2	He	7632.386	381619.298	2.66	28129	27.13	200000	
Sb	121	2	He	0.012	0.618	8.99	373	0.00	2000	
Ti	47	2	He	0.002	0.122	655.09	17	0.01	2000	
Cu	63	1	No Gas	-0.039	-1.943	-58.87	5681	0.00	2000	
Ca	44	1	No Gas	7432.332	371616.590	1.39	6581134	0.11	200000	
Zn	66	1	No Gas	0.958	47.884	2.19	8406	0.01	2000	
Se	82	1	No Gas	-0.157	-7.848	-129.00	353	-0.04	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1407634	0.50	1676119	83.98	70	120	
Ge	72	2	He	1099459	0.66	1163381	94.51	70	120	
Ge	72	1	No Gas	3812001	0.66	4078799	93.46	70	120	

Sample Report

In	115	1	No Gas	4953469	0.07	5144583	96.29	70	120	
Bi	209	1	No Gas	5237203	0.46	4944446	105.92	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	193_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:37:20-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.602	2.103	1909078	2.61	100	96.6	90	110	
Be	9	1	No Gas	104.158	2.177	506221	2.64	100	104.2	90	110	
V	51	2	He	100.930	2.027	934733	2.43	100	100.9	90	110	
Cr	52	2	He	100.437	2.591	1063668	3.02	100	100.4	90	110	
Fe	56	2	He	9568.008	1.937	95074682	2.15	10000	95.7	90	110	
Se	78	2	He	101.762	1.790	14974	2.28	100	101.8	90	110	
As	75	2	He	100.750	2.907	165949	3.45	100	100.8	90	110	
Ca	44	2	He	9359.178	1.785	567617	2.12	10000	93.6	90	110	
Na	23	2	He	9486.946	1.363	15851834	1.56	10000	94.9	90	110	
Mg	24	2	He	9538.159	1.762	9603041	2.11	10000	95.4	90	110	
K	39	2	He	9502.388	1.830	11103335	2.16	10000	95.0	90	110	
Mn	55	2	He	99.679	2.197	800658	2.31	100	99.7	90	110	
Co	59	2	He	102.304	2.384	1655774	2.47	100	102.3	90	110	
Ni	60	2	He	102.102	2.380	424166	2.41	100	102.1	90	110	
Cu	63	2	He	102.677	2.137	1147124	2.26	100	102.7	90	110	
Zn	66	2	He	101.864	1.820	210563	2.08	100	101.9	90	110	
Al	27	2	He	99.134	1.063	62836	1.80	100	99.1	90	110	
B	11	1	No Gas	470.612	1.729	1387899	1.86	500	94.1	90	110	
Al	27	1	No Gas	98.101	1.386	2300673	2.31	100	98.1	90	110	
Si	28	1	No Gas	470.960	0.948	5561782	1.84	5000	9.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.744	0.994	3190048	1.28	100	100.7	90	110	
Cd	111	1	No Gas	102.609	1.454	648436	1.74	100	102.6	90	110	
Sr	88	1	No Gas	99.806	1.346	6248242	1.61	100	99.8	90	110	
Mo	95	1	No Gas	96.513	0.925	1161073	1.21	100	96.5	90	110	
Sn	118	1	No Gas	103.381	1.292	2145441	1.57	100	103.4	90	110	
Sb	121	1	No Gas	110.361	0.695	2953699	1.64	100	110.4	90	110	CCV Main CR1-2 Failed
Ba	137	1	No Gas	102.687	1.180	1080074	1.45	100	102.7	90	110	
Tl	205	1	No Gas	105.725	1.540	8145606	1.04	100	105.7	90	110	
Tl	203	1	No Gas	105.585	1.212	3312940	0.84	100	105.6	90	110	
Pb	208	1	No Gas	101.885	0.425	10740764	0.65	100	101.9	90	110	
U	238	1	No Gas	96.537	1.274	10677588	1.31	100	96.5	90	110	
Ca	43	2	He	9330.908	0.588	33186	1.28	10000	93.3	90	110	
Sb	121	2	He	107.320	1.517	1254324	1.75	100	107.3	90	110	
Ti	47	2	He	100.240	1.359	35238	2.01	100	100.2	90	110	
Cu	63	1	No Gas	102.464	1.398	2216618	2.33	100	102.5	90	110	
Se	82	1	No Gas	106.011	1.163	38762	2.13	100	106.0	90	110	
Zr	90	1	No Gas	50.778	0.817	1986786	1.07	100	50.8	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	52.349	2.020	792799	2.25	100	52.3	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1311975	0.92	1676119	78.27	70	120	
Ge	72	2	He	1061393	0.77	1163381	91.23	70	120	
Ge	72	1	No Gas	3716739	0.98	4078799	91.12	70	120	
In	115	1	No Gas	4880196	0.29	5144583	94.86	70	120	
Bi	209	1	No Gas	5196400	1.07	4944446	105.10	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	194_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:39:44-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.156	6.9	78263	0.1	0.5	
Be	9	1	No Gas	0.096	31.0	682	22.5	0.5	
V	51	2	He	-0.143	-6.6	2182	3.8	2.5	
Cr	52	2	He	-0.459	-2.7	7205	2.2	2.5	
Fe	56	2	He	5.307	4.9	73013	3.8	100	
Se	78	2	He	0.141	22.8	164	3.2	2	
As	75	2	He	0.026	33.1	367	3.6	2.5	
Ca	44	2	He	10.378	29.3	1500	12.2	100	
Na	23	2	He	-62.126	-0.1	196166	1.0	100	
Mg	24	2	He	5.505	6.7	6498	5.3	100	
K	39	2	He	1.095	31.7	117740	1.0	100	
Mn	55	2	He	0.249	17.7	2824	12.7	2.5	
Co	59	2	He	0.041	13.8	1427	5.6	2.5	
Ni	60	2	He	0.110	20.1	863	11.4	2.5	
Cu	63	2	He	0.102	12.1	1873	7.8	2	
Zn	66	2	He	0.795	1.8	2554	1.9	2.5	
Al	27	2	He	-0.641	-33.2	1273	11.3	5	
B	11	1	No Gas	2.721	20.7	17921	9.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.593	-13.2	46069	3.6	5	
Si	28	1	No Gas	0.086	762.3	359504	1.7	10	
Ag	107	1	No Gas	0.059	44.0	2977	27.9	2.5	
Cd	111	1	No Gas	0.090	44.6	581	44.3	1	
Sr	88	1	No Gas	0.122	31.9	11095	22.4	2.5	
Mo	95	1	No Gas	0.159	8.3	2127	7.8	2.5	
Sn	118	1	No Gas	0.120	16.0	8780	4.4	5	
Sb	121	1	No Gas	0.107	28.0	3447	23.1	2.5	
Ba	137	1	No Gas	0.145	23.7	2290	16.3	2.5	
Tl	205	1	No Gas	0.103	29.9	11042	22.8	1	
Tl	203	1	No Gas	0.111	31.9	4708	25.0	1	
Pb	208	1	No Gas	0.089	27.7	15424	18.0	2.5	
U	238	1	No Gas	0.081	27.8	13288	20.0	2.5	
Ca	43	2	He	15.535	52.5	97	29.9	100	
Sb	121	2	He	0.058	9.2	920	7.8	2.5	
Ti	47	2	He	0.040	119.9	30	57.7	2.5	
Cu	63	1	No Gas	-0.068	-32.0	4971	9.1	2.5	
Se	82	1	No Gas	-0.135	-40.8	357	5.8	2	
Zr	90	1	No Gas	0.077	27.5	4341	19.8	2.5	
Zr	90	2	He	0.041	26.7	2314	7.7	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1383746	0.17	1676119	82.56	70	120	
Ge	72	2	He	1085236	0.98	1163381	93.28	70	120	
Ge	72	1	No Gas	3765611	0.52	4078799	92.32	70	120	

Continuing Calibration Blank (CCB) Report

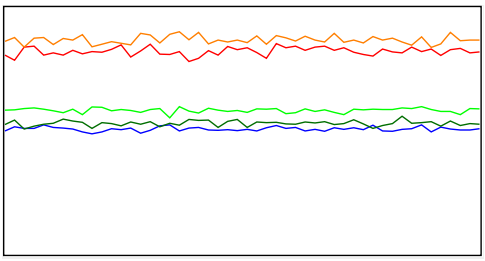
In	115	1	No Gas	4960361	0.55	5144583	96.42	70	120	
Bi	209	1	No Gas	5299915	0.82	4944446	107.19	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq. Date-Time	6/25/2024 9:15:11 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	8229	82290.73		
24	50000	29188	291881.17		
59	100000	50763	507626.89		
115	100000	86958	869579.47		
208	100000	53101	531012.52		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.037	5.000	
24	1.594	5.000	
59	1.685	5.000	
115	1.884	5.000	
208	2.024	5.000	

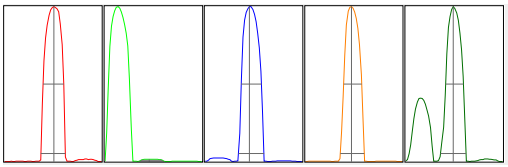
Mass	Background	Background (Required)	Background (Flag)
9	1.200		
24	3.400		
59	1.100		
115	1.700		
208	4.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.066 %
Doubly Charged	70 / 140 1.008 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	8414.64	9.05	8.90 - 9.10	
24	29368.60	23.90	23.90 - 24.10	
59	51640.05	58.90	58.90 - 59.10	
115	87898.89	114.95	114.90 - 115.10	
208	53310.84	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.742		
24	0.66	0.747		
59	0.62	0.779		
115	0.55	0.732		
208	0.55	0.780		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

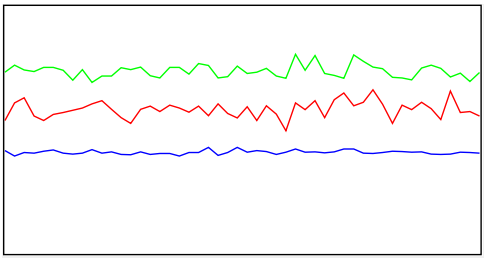
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	500	292	2915.10		
24	2000	1477	14773.28		
59	50000	20440	204403.23		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

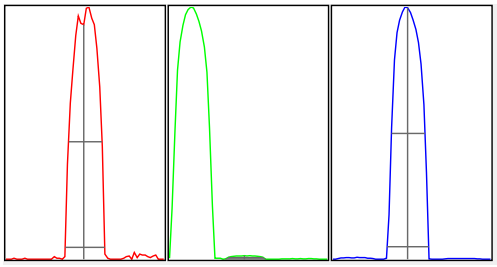
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	5.890	5.000	Fail
24	3.603	5.000	
59	1.911	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.900		
24	0.700		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.394 %
Doubly Charged	70 / 140 0.828 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	282.79	9.00	8.90 - 9.10	
24	1482.83	23.95	23.90 - 24.10	
59	20564.08	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.742		
24	0.66	0.746		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.779		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

EM

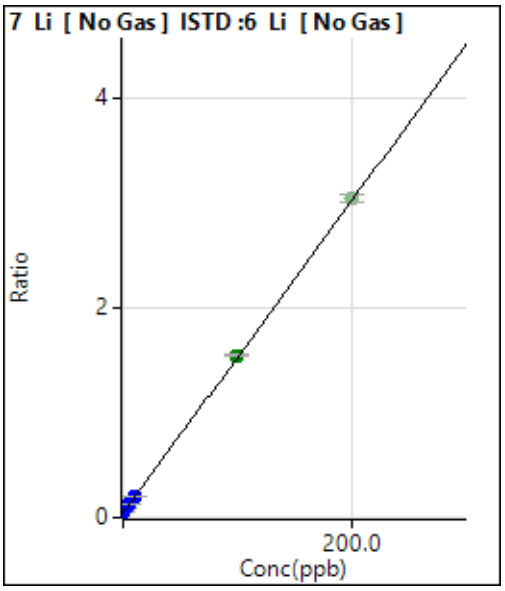
Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Calibration for 140_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	133CALB.d	CAL BLK	6/26/2024 4:47:01 PM
2	134CALS.d	2/10/200	6/26/2024 4:49:32 PM
3	135CALS.d	5/25/500	6/26/2024 4:52:02 PM
4	136CALS.d	10/50/100	6/26/2024 4:54:32 PM
5	137CALS.d	100/500/10K	6/26/2024 4:57:02 PM
6	138CALS.d	200/1000/20K	6/26/2024 4:59:31 PM

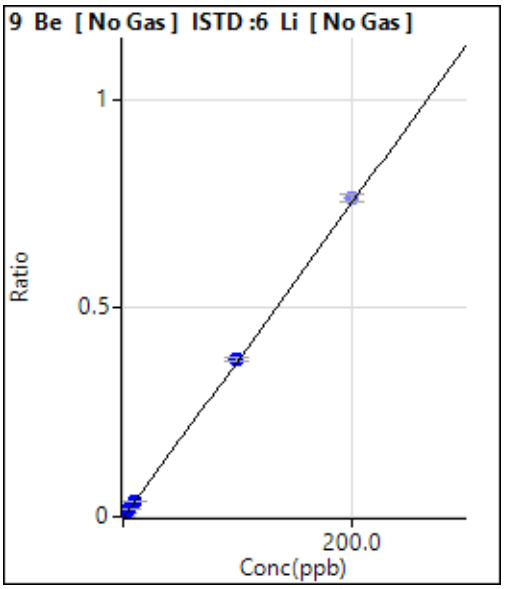
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59739.42	0.0586	P	0.5	
2	☐	2.000	1.849	86936.29	0.0861	P	1.2	-7.5
3	☐	5.000	4.802	129606.31	0.1300	P	1.8	-4.0
4	☐	10.000	9.750	200285.92	0.2036	P	1.3	-2.5
5	☐	100.000	100.038	1414536.59	1.5463	A	1.5	0.0
6	☑	200.000		2653793.29	3.0422	A	1.8	

y = 0.0149 * x + 0.0586
R = 1.0000
DL = 0.05751 ppb
BEC = 3.938 ppb

Weight: <None>
Min Conc: <None>

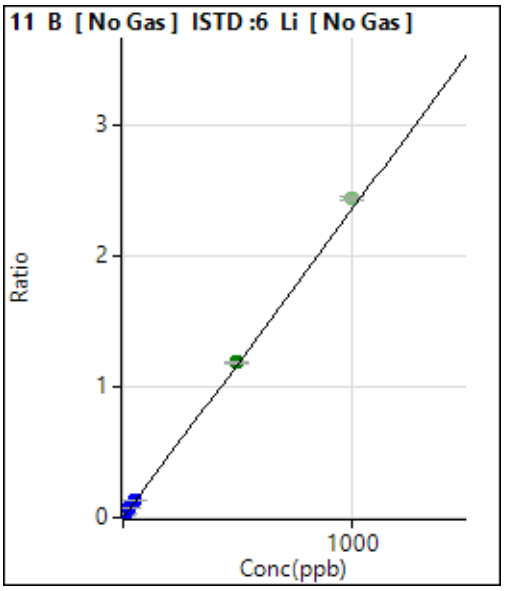


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	88.33	0.0001	P	13.1	
2	☐	2.000	1.828	7055.14	0.0070	P	1.0	-8.6
3	☐	5.000	4.820	18225.08	0.0183	P	4.3	-3.6
4	☐	10.000	9.782	36411.44	0.0370	P	0.4	-2.2
5	☐	100.000	100.034	345473.25	0.3776	P	2.1	0.0
6	☑	200.000		666285.16	0.7638	P	2.3	

y = 0.0038 * x + 8.6598E-005
R = 1.0000
DL = 0.008996 ppb
BEC = 0.02294 ppb

Weight: <None>
Min Conc: <None>

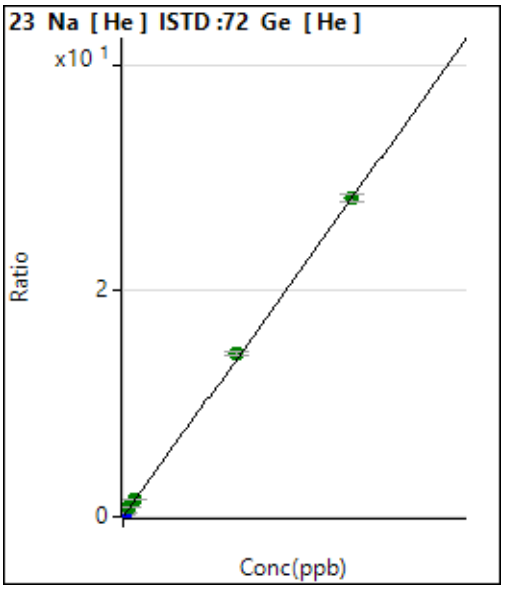
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12960.97	0.0127	P	2.0	
2	☐	10.000	9.617	35709.72	0.0354	P	1.1	-3.8
3	☐	25.000	23.824	68611.09	0.0688	P	1.0	-4.7
4	☐	50.000	48.860	125691.89	0.1278	P	3.2	-2.3
5	☐	500.000	500.180	1089085.66	1.1905	A	1.2	0.0
6	☑	1000.000		2132865.70	2.4450	A	1.3	

y = 0.0024 * x + 0.0127
R = 1.0000
DL = 0.3315 ppb
BEC = 5.396 ppb

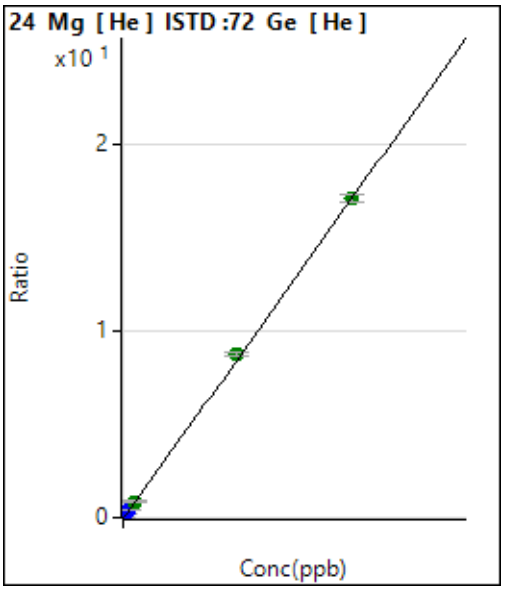
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146783.30	0.1396	P	1.4	
2	☐	200.000	177.705	408291.71	0.3899	P	1.8	-11.1
3	☐	500.000	483.339	848457.20	0.8205	A	1.3	-3.3
4	☐	1000.000	1003.641	1585793.26	1.5534	A	1.3	0.4
5	☐	10000.00	10151.20	14003940.63	14.4393	A	1.8	1.5
6	☐	20000.00	19924.85	27350490.43	28.2072	A	2.4	-0.4

y = 0.0014 * x + 0.1396
R = 1.0000
DL = 4.253 ppb
BEC = 99.11 ppb

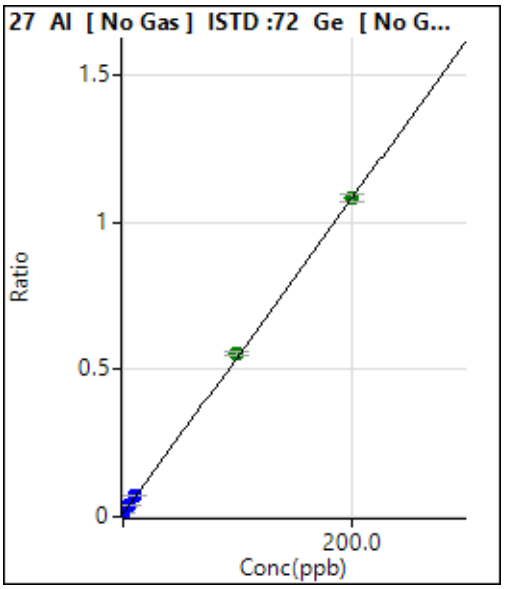
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8726.18	0.0083	P	4.3	
2	☐	200.000	182.984	173615.92	0.1658	P	3.1	-8.5
3	☐	500.000	481.677	437267.96	0.4229	P	1.5	-3.7
4	☐	1000.000	1007.165	893387.10	0.8751	A	1.6	0.7
5	☐	10000.00	10166.53	8494172.37	8.7582	A	2.0	1.7
6	☐	20000.00	19917.00	16628555.59	17.1499	A	2.8	-0.4

y = 8.6065E-004 * x + 0.0083
R = 0.9999
DL = 1.246 ppb
BEC = 9.644 ppb

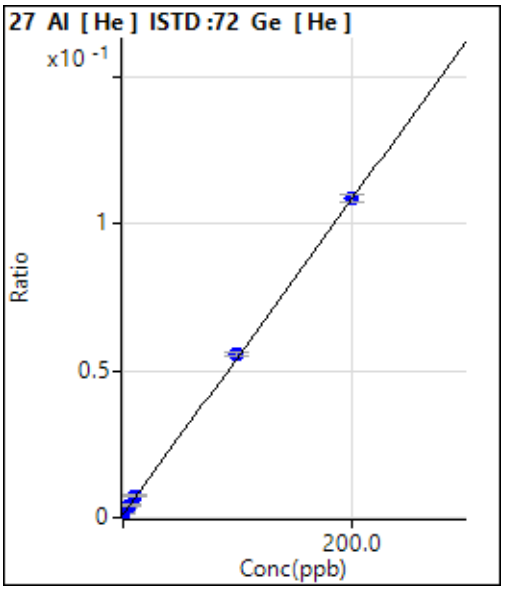
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55051.69	0.0151	P	1.8	
2	☐	2.000	3.282	118462.80	0.0327	P	1.6	64.1
3	☐	5.000	5.039	150024.81	0.0421	P	0.7	0.8
4	☐	10.000	10.635	253416.03	0.0720	P	2.2	6.3
5	☐	100.000	100.929	1885819.87	0.5553	A	2.1	0.9
6	☐	200.000	199.490	3588785.05	1.0828	A	2.8	-0.3

y = 0.0054 * x + 0.0151
R = 1.0000
DL = 0.1551 ppb
BEC = 2.821 ppb

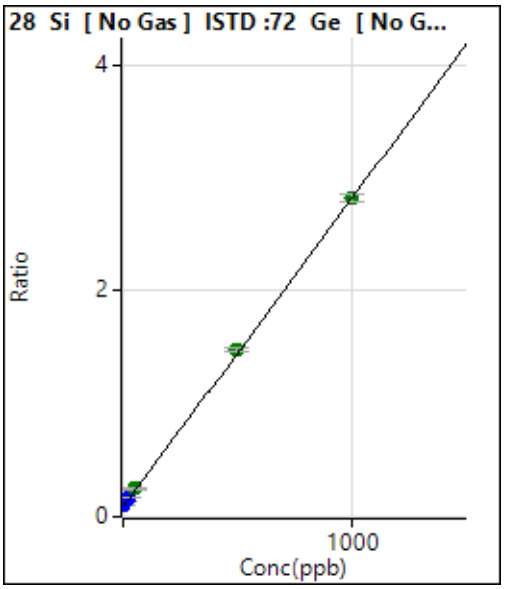
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1680.13	0.0016	P	10.2	
2	☐	2.000	2.991	3350.45	0.0032	P	2.8	49.6
3	☐	5.000	4.926	4380.76	0.0042	P	1.2	-1.5
4	☐	10.000	10.519	7385.39	0.0072	P	7.9	5.2
5	☐	100.000	100.622	53829.69	0.0555	P	2.8	0.6
6	☐	200.000	199.655	105254.43	0.1085	P	2.1	-0.2

y = 5.3567E-004 * x + 0.0016
R = 1.0000
DL = 0.9129 ppb
BEC = 2.983 ppb

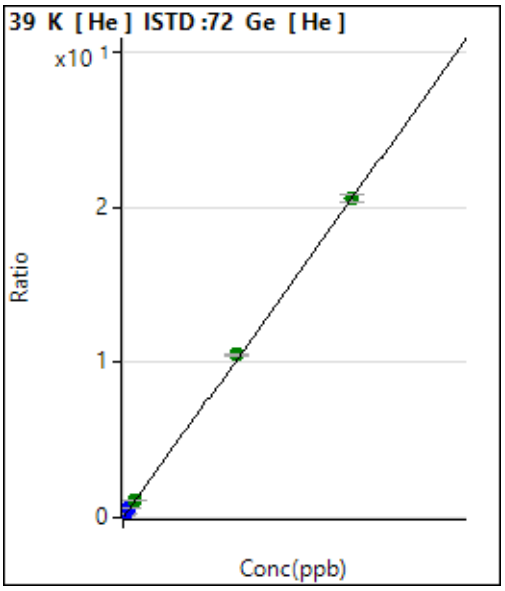
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	368920.63	0.1012	P	1.1	
2	☐	10.000	11.991	485632.29	0.1339	P	0.6	19.9
3	☐	25.000	26.152	615457.02	0.1726	P	1.0	4.6
4	☐	50.000	54.305	877776.08	0.2494	A	2.6	8.6
5	☐	500.000	504.971	5025941.59	1.4799	A	2.3	1.0
6	☐	1000.000	997.250	9359982.99	2.8239	A	2.3	-0.3

y = 0.0027 * x + 0.1012
R = 1.0000
DL = 1.206 ppb
BEC = 37.06 ppb

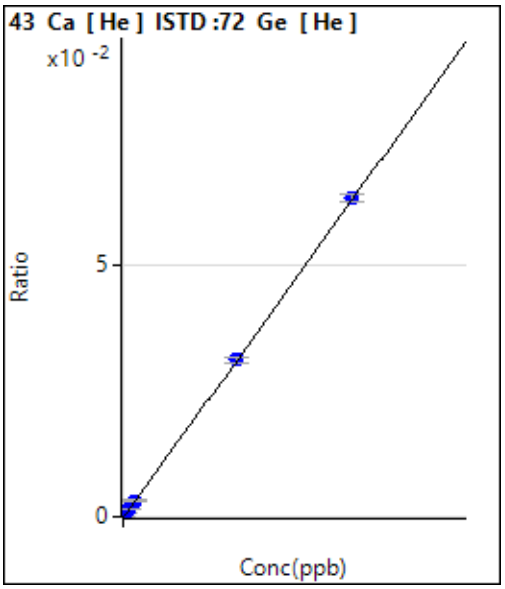
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101288.72	0.0963	P	1.3	
2	☐	200.000	181.230	296313.44	0.2830	P	1.4	-9.4
3	☐	500.000	482.962	613955.67	0.5937	P	1.4	-3.4
4	☐	1000.000	1003.062	1152885.14	1.1293	A	1.2	0.3
5	☐	10000.00	10146.94	10228327.56	10.5460	A	1.2	1.5
6	☐	20000.00	19926.98	19991319.29	20.6178	A	2.8	-0.4

y = 0.0010 * x + 0.0963
R = 1.0000
DL = 3.774 ppb
BEC = 93.55 ppb

Weight: <None>
Min Conc: <None>

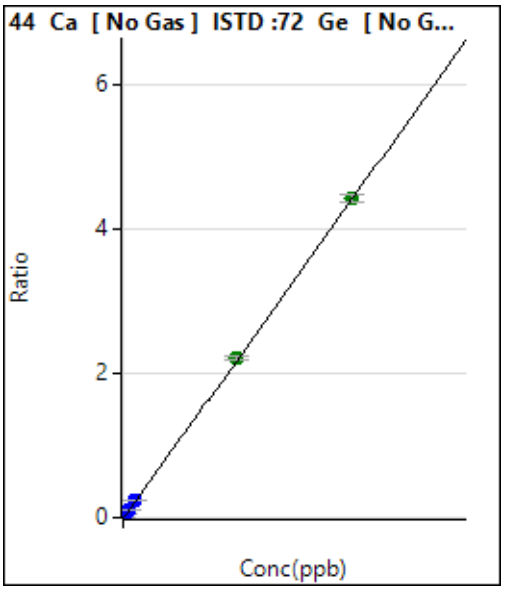


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	53.1	
2	☐	200.000	190.907	673.36	0.0006	P	18.5	-4.5
3	☐	500.000	491.614	1643.46	0.0016	P	7.5	-1.7
4	☐	1000.000	1001.817	3263.79	0.0032	P	10.7	0.2
5	☐	10000.00	9890.718	30259.79	0.0312	P	3.5	-1.1
6	☐	20000.00	20054.85	61284.74	0.0632	P	2.6	0.3

y = 3.1494E-006 * x + 4.1190E-005
R = 1.0000
DL = 20.83 ppb
BEC = 13.08 ppb

Weight: <None>
Min Conc: <None>

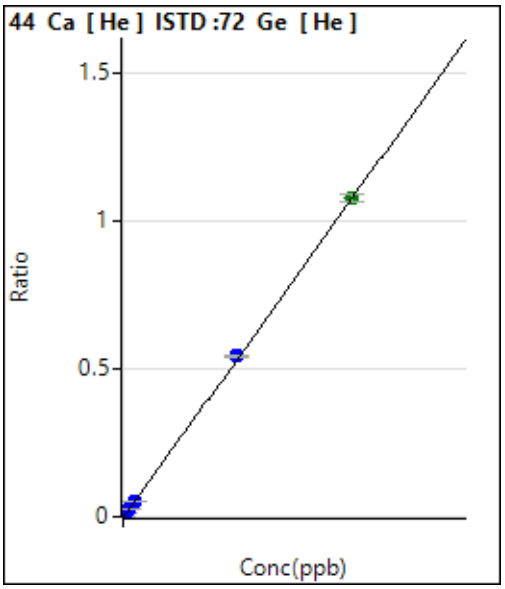
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17087.41	0.0047	P	1.1	
2	☐	200.000	201.566	178411.74	0.0492	P	2.7	0.8
3	☐	500.000	502.319	412283.89	0.1156	P	0.5	0.5
4	☐	1000.000	1023.091	811379.68	0.2306	P	2.4	2.3
5	☐	10000.00	10020.40	7529956.55	2.2171	A	1.9	0.2
6	☐	20000.00	19988.56	14643984.36	4.4180	A	2.2	-0.1

y = 2.2079E-004 * x + 0.0047
R = 1.0000
DL = 0.7153 ppb
BEC = 21.22 ppb

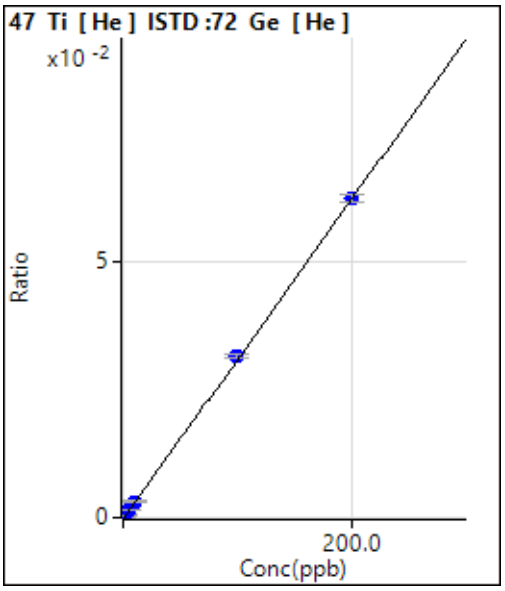
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	783.37	0.0007	P	4.5	
2	☐	200.000	195.744	11831.84	0.0113	P	0.8	-2.1
3	☐	500.000	488.245	27991.78	0.0271	P	2.9	-2.4
4	☐	1000.000	996.381	55601.11	0.0545	P	1.5	-0.4
5	☐	10000.00	10080.44	527807.86	0.5442	P	1.3	0.8
6	☐	20000.00	19960.29	1044197.12	1.0769	A	2.4	-0.2

y = 5.3914E-005 * x + 7.4515E-004
R = 1.0000
DL = 1.862 ppb
BEC = 13.82 ppb

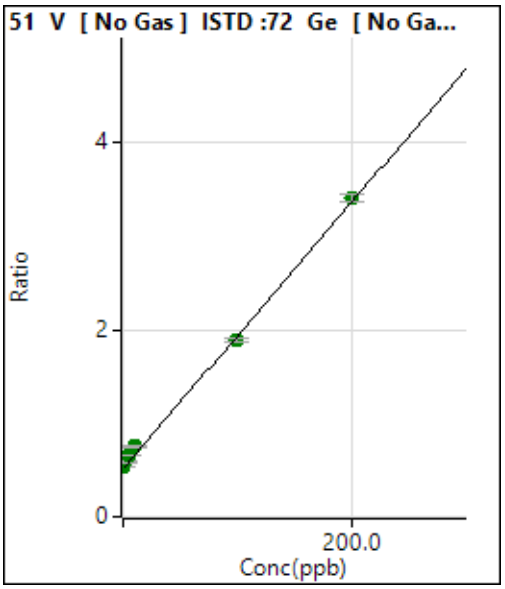
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.5	
2	☐	2.000	1.740	586.69	0.0006	P	25.3	-13.0
3	☐	5.000	4.584	1496.78	0.0014	P	7.6	-8.3
4	☐	10.000	10.050	3220.44	0.0032	P	4.6	0.5
5	☐	100.000	100.810	30550.63	0.0315	P	2.0	0.8
6	☐	200.000	199.606	60461.52	0.0624	P	2.7	-0.2

y = 3.1232E-004 * x + 1.5861E-005
R = 1.0000
DL = 0.1394 ppb
BEC = 0.05078 ppb

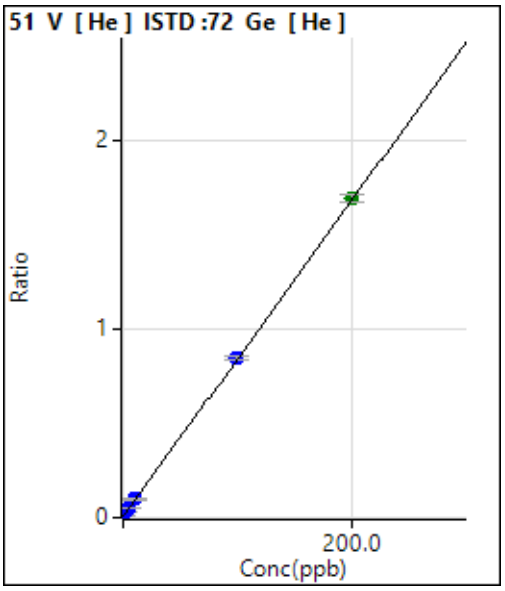
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1943223.28	0.5329	A	0.4	
2	☐	2.000	3.761	2126773.10	0.5864	A	0.7	88.1
3	☐	5.000	9.020	2358541.03	0.6613	A	0.6	80.4
4	☐	10.000	15.667	2659965.39	0.7559	A	2.5	56.7
5	☐	100.000	95.137	6409059.95	1.8871	A	2.3	-4.9
6	☐	200.000	202.030	11298388.69	3.4087	A	2.1	1.0

y = 0.0142 * x + 0.5329
R = 0.9991
DL = 0.4021 ppb
BEC = 37.44 ppb

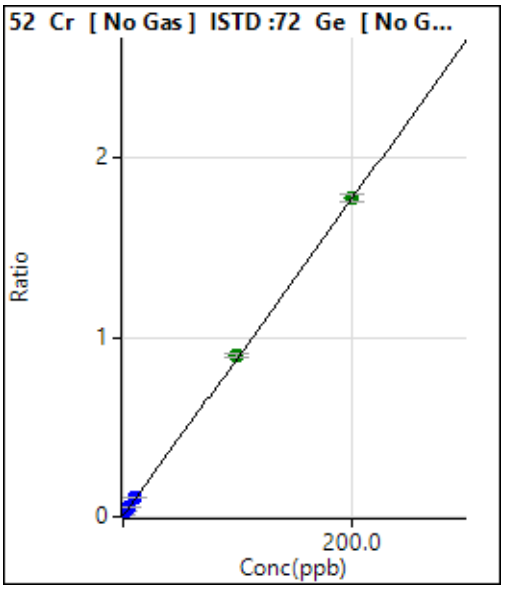
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14058.27	0.0134	P	3.1	
2	☐	2.000	1.876	30514.65	0.0291	P	1.5	-6.2
3	☐	5.000	4.836	55859.63	0.0540	P	2.3	-3.3
4	☐	10.000	9.993	99400.10	0.0974	P	1.9	-0.1
5	☐	100.000	99.210	821733.56	0.8473	P	2.0	-0.8
6	☐	200.000	200.401	1646384.00	1.6979	A	1.8	0.2

y = 0.0084 * x + 0.0134
R = 1.0000
DL = 0.1495 ppb
BEC = 1.591 ppb

Weight: <None>
Min Conc: <None>

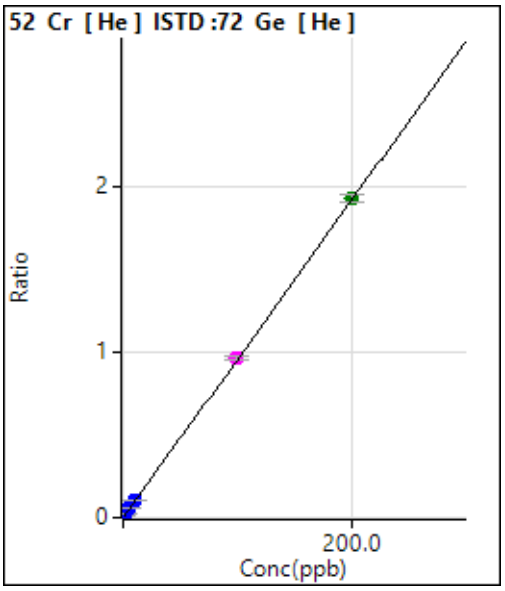


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	47093.54	0.0129	P	1.7	
2	☐	2.000	2.007	111146.81	0.0306	P	1.1	0.4
3	☐	5.000	5.099	206720.77	0.0580	P	1.1	2.0
4	☐	10.000	10.352	367238.17	0.1044	P	2.1	3.5
5	☐	100.000	100.460	3057634.75	0.9003	A	2.0	0.5
6	☐	200.000	199.750	5891257.62	1.7774	A	1.9	-0.1

y = 0.0088 * x + 0.0129
R = 1.0000
DL = 0.07386 ppb
BEC = 1.462 ppb

Weight: <None>
Min Conc: <None>

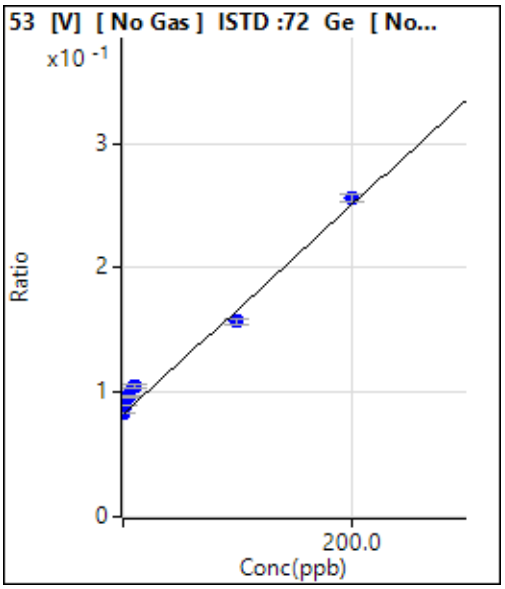
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9503.37	0.0090	P	1.1	
2	☐	2.000	1.847	28011.95	0.0267	P	2.8	-7.7
3	☐	5.000	4.749	56431.70	0.0546	P	1.5	-5.0
4	☐	10.000	9.952	106637.83	0.1045	P	1.7	-0.5
5	☐	100.000	99.668	935667.04	0.9647	M	2.6	-0.3
6	☐	200.000	200.176	1869980.13	1.9285	A	2.0	0.1

y = 0.0096 * x + 0.0090
R = 1.0000
DL = 0.03085 ppb
BEC = 0.9426 ppb

Weight: <None>
Min Conc: <None>

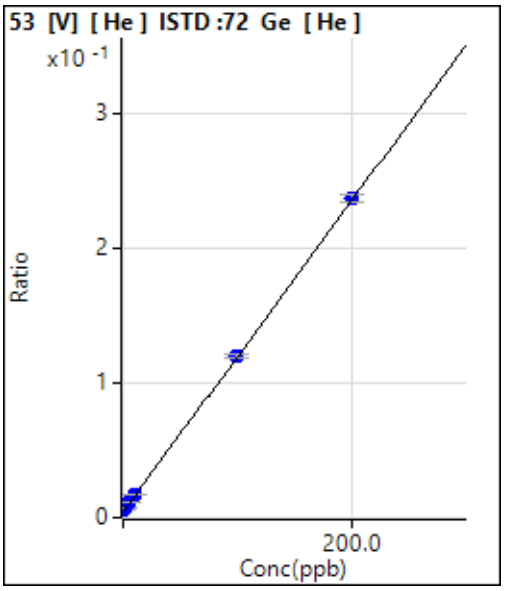


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	305748.07	0.0838	P	0.6	
2	☐	2.000	6.661	324325.33	0.0894	P	1.1	233.1
3	☐	5.000	15.479	345330.51	0.0968	P	1.2	209.6
4	☐	10.000	25.205	369413.37	0.1050	P	2.4	152.0
5	☐	100.000	86.872	532129.78	0.1567	P	3.1	-13.1
6	☐	200.000	205.495	849012.41	0.2562	P	2.6	2.7

y = 8.3849E-004 * x + 0.0838
R = 0.9930
DL = 1.658 ppb
BEC = 100 ppb

Weight: <None>
Min Conc: <None>

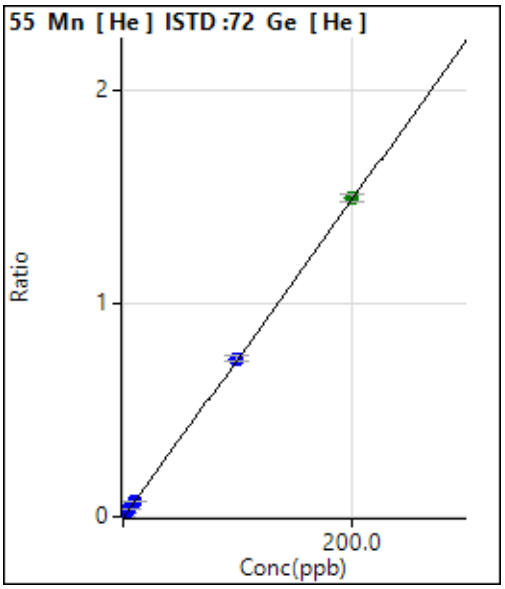
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5747.97	0.0055	P	4.2	
2	☐	2.000	1.936	8065.82	0.0077	P	1.8	-3.2
3	☐	5.000	4.901	11508.30	0.0111	P	1.7	-2.0
4	☐	10.000	10.211	17618.15	0.0173	P	6.7	2.1
5	☐	100.000	98.990	116197.83	0.1198	P	2.3	-1.0
6	☐	200.000	200.498	229853.61	0.2370	P	2.4	0.2

y = 0.0012 * x + 0.0055
R = 1.0000
DL = 0.5962 ppb
BEC = 4.733 ppb

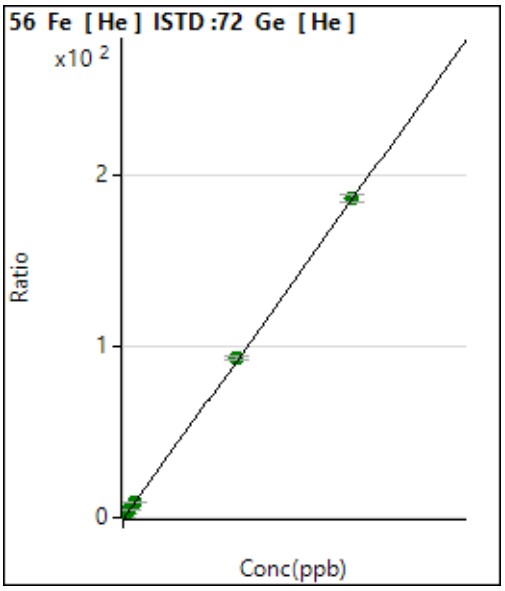
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	726.70	0.0007	P	8.6	
2	☐	2.000	1.820	14958.28	0.0143	P	1.2	-9.0
3	☐	5.000	4.776	37594.95	0.0364	P	2.1	-4.5
4	☐	10.000	9.748	75009.68	0.0735	P	2.0	-2.5
5	☐	100.000	99.354	720131.50	0.7425	P	2.8	-0.6
6	☐	200.000	200.343	1451115.91	1.4966	A	2.5	0.2

y = 0.0075 * x + 6.9108E-004
R = 1.0000
DL = 0.02387 ppb
BEC = 0.09255 ppb

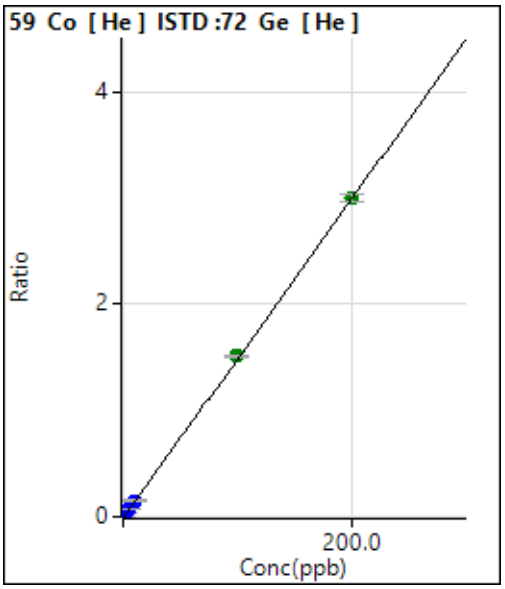
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17014.07	0.0162	P	0.4	
2	☐	200.000	183.589	1805418.72	1.7241	A	2.8	-8.2
3	☐	500.000	476.693	4602724.41	4.4509	A	1.6	-4.7
4	☐	1000.000	993.113	9448265.69	9.2552	A	1.4	-0.7
5	☐	10000.00	9989.267	90143201.99	92.9477	A	2.5	-0.1
6	☐	20000.00	20006.45	180487183.9	186.139	A	2.3	0.0

y = 0.0093 * x + 0.0162
R = 1.0000
DL = 0.0221 ppb
BEC = 1.739 ppb

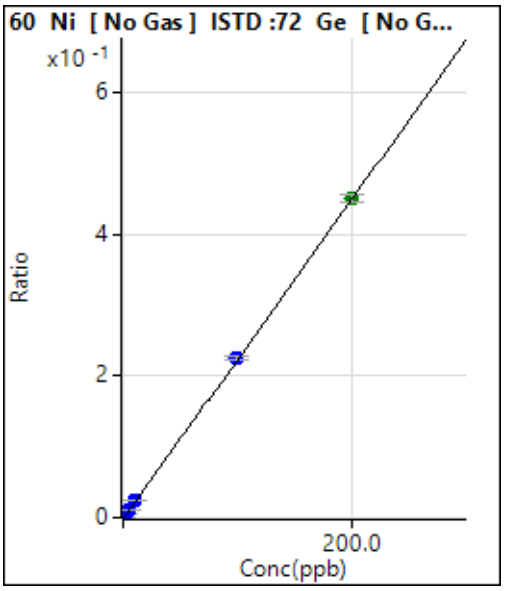
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	476.68	0.0005	P	10.6	
2	☐	2.000	1.806	28900.54	0.0276	P	2.1	-9.7
3	☐	5.000	4.802	75114.60	0.0726	P	2.7	-4.0
4	☐	10.000	10.128	155856.56	0.1527	P	1.6	1.3
5	☐	100.000	100.727	1468712.95	1.5143	A	1.5	0.7
6	☐	200.000	199.637	2909683.60	3.0009	A	2.8	-0.2

y = 0.0150 * x + 4.5345E-004
R = 1.0000
DL = 0.009553 ppb
BEC = 0.03017 ppb

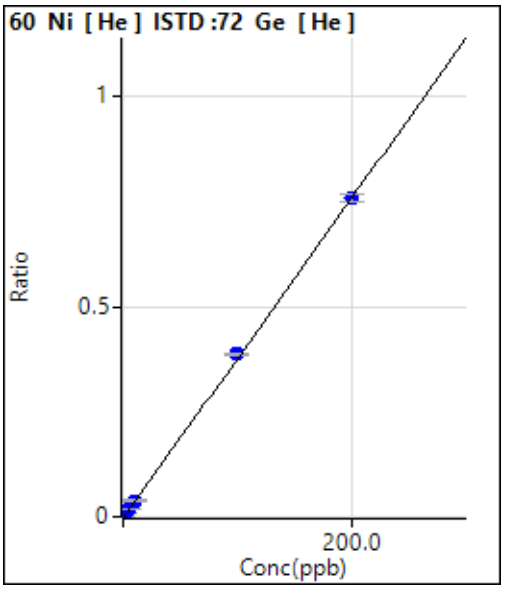
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1276.75	0.0004	P	10.2	
2	☐	2.000	2.010	17694.91	0.0049	P	4.1	0.5
3	☐	5.000	5.102	42251.83	0.0118	P	2.2	2.0
4	☐	10.000	10.325	83099.39	0.0236	P	2.6	3.3
5	☐	100.000	100.266	768430.48	0.2263	P	2.5	0.3
6	☐	200.000	199.848	1493604.09	0.4506	A	2.6	-0.1

y = 0.0023 * x + 3.5020E-004
R = 1.0000
DL = 0.04778 ppb
BEC = 0.1554 ppb

Weight: <None>
Min Conc: <None>

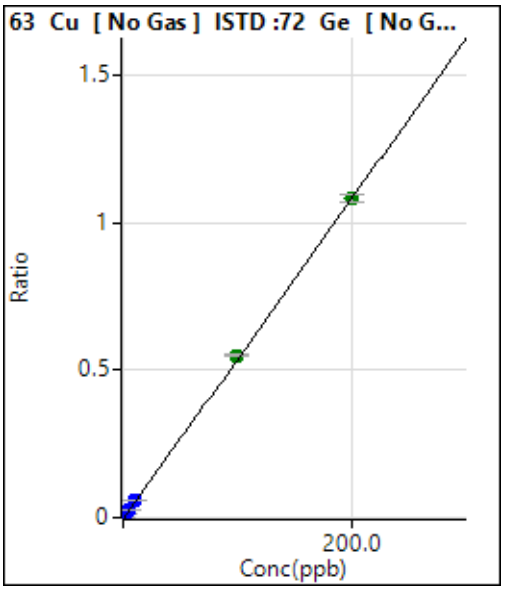


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0003	P	23.8	
2	☐	2.000	1.859	7695.60	0.0073	P	4.4	-7.1
3	☐	5.000	5.023	20071.57	0.0194	P	4.2	0.5
4	☐	10.000	10.127	39680.93	0.0389	P	1.1	1.3
5	☐	100.000	101.765	376592.83	0.3883	P	1.0	1.8
6	☐	200.000	199.112	736351.86	0.7594	P	3.0	-0.4

y = 0.0038 * x + 2.6008E-004
R = 0.9999
DL = 0.04861 ppb
BEC = 0.06821 ppb

Weight: <None>
Min Conc: <None>

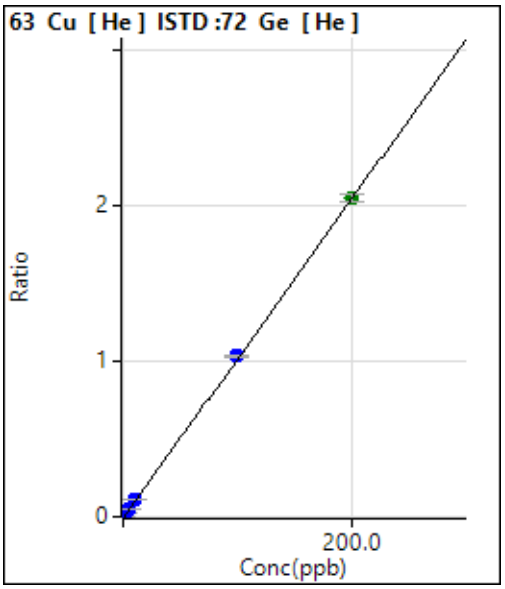
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1720.14	0.0005	P	3.1	
2	☐	2.000	2.097	43071.06	0.0119	P	1.4	4.9
3	☐	5.000	5.175	102067.18	0.0286	P	1.2	3.5
4	☐	10.000	10.391	200512.21	0.0570	P	2.4	3.9
5	☐	100.000	101.386	1874150.55	0.5518	A	2.0	1.4
6	☐	200.000	199.282	3593687.55	1.0842	A	2.1	-0.4

y = 0.0054 * x + 4.7176E-004
R = 1.0000
DL = 0.008055 ppb
BEC = 0.08675 ppb

Weight: <None>
Min Conc: <None>

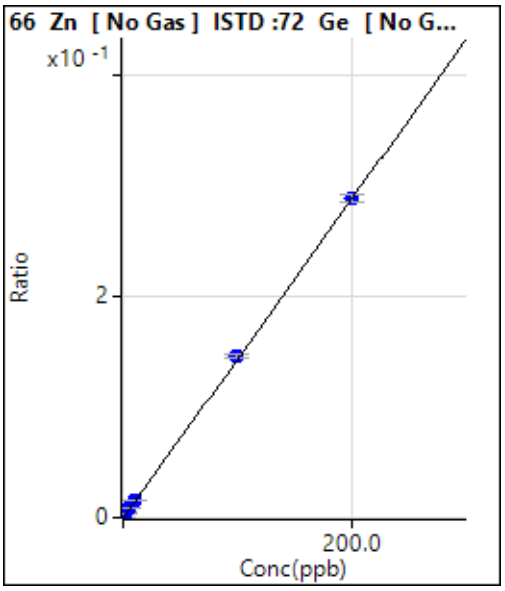


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	636.70	0.0006	P	17.6	
2	☐	2.000	1.920	21286.71	0.0203	P	1.5	-4.0
3	☐	5.000	5.006	53798.75	0.0520	P	3.3	0.1
4	☐	10.000	10.267	108260.04	0.1061	P	1.1	2.7
5	☐	100.000	100.544	1002080.51	1.0332	P	0.8	0.5
6	☐	200.000	199.715	1989361.22	2.0517	A	2.6	-0.1

y = 0.0103 * x + 6.0565E-004
R = 1.0000
DL = 0.03114 ppb
BEC = 0.05897 ppb

Weight: <None>
Min Conc: <None>

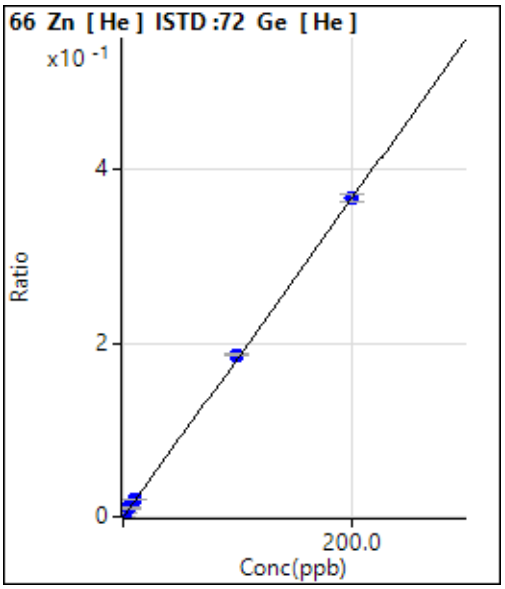
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2747.00	0.0008	P	2.7	
2	☐	2.000	2.469	15642.52	0.0043	P	5.4	23.5
3	☐	5.000	5.190	29368.43	0.0082	P	2.1	3.8
4	☐	10.000	10.188	54330.92	0.0154	P	1.7	1.9
5	☐	100.000	100.839	496222.88	0.1461	P	1.7	0.8
6	☐	200.000	199.562	955953.26	0.2884	P	2.4	-0.2

y = 0.0014 * x + 7.5337E-004
R = 1.0000
DL = 0.04282 ppb
BEC = 0.5226 ppb

Weight: <None>
Min Conc: <None>

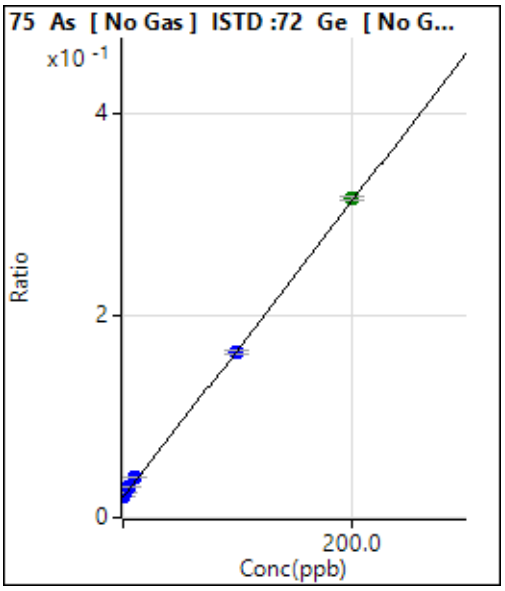


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1103.40	0.0010	P	4.6	
2	☐	2.000	2.115	5161.05	0.0049	P	5.2	5.8
3	☐	5.000	4.957	10490.85	0.0101	P	4.7	-0.9
4	☐	10.000	10.318	20395.45	0.0200	P	1.1	3.2
5	☐	100.000	101.088	180879.80	0.1865	P	0.5	1.1
6	☐	200.000	199.440	355802.53	0.3669	P	2.6	-0.3

y = 0.0018 * x + 0.0010
R = 1.0000
DL = 0.07876 ppb
BEC = 0.572 ppb

Weight: <None>
Min Conc: <None>

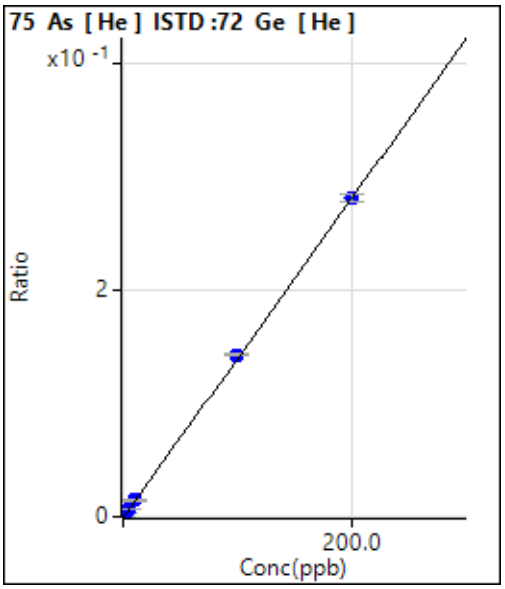
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	78944.74	0.0216	P	1.0	
2	☐	2.000	2.654	92630.33	0.0255	P	1.2	32.7
3	☐	5.000	6.309	110222.10	0.0309	P	0.9	26.2
4	☐	10.000	12.432	140369.70	0.0399	P	2.1	24.3
5	☐	100.000	97.338	558562.32	0.1645	P	2.6	-2.7
6	☐	200.000	201.170	1050143.39	0.3168	A	1.3	0.6

y = 0.0015 * x + 0.0216
R = 0.9998
DL = 0.423 ppb
BEC = 14.75 ppb

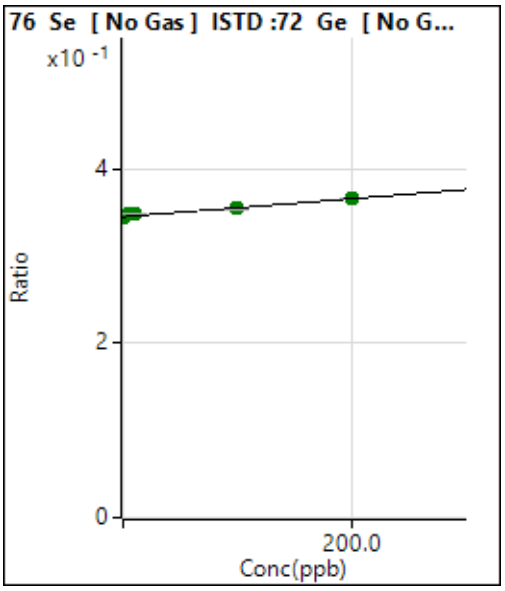
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	410.01	0.0004	P	5.7	
2	☐	2.000	1.778	3035.91	0.0029	P	5.3	-11.1
3	☐	5.000	4.792	7396.48	0.0072	P	2.5	-4.2
4	☐	10.000	9.947	14730.21	0.0144	P	4.0	-0.5
5	☐	100.000	101.319	139044.84	0.1434	P	1.7	1.3
6	☐	200.000	199.350	273165.88	0.2817	P	2.7	-0.3

y = 0.0014 * x + 3.9001E-004
R = 1.0000
DL = 0.04714 ppb
BEC = 0.2764 ppb

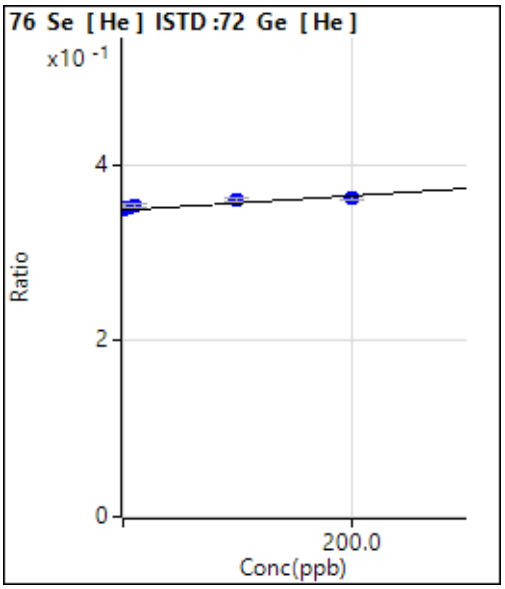
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1259563.94	0.3454	A	0.6	
2	☐	2.000	4.398	1254367.24	0.3459	A	0.7	119.9
3	☐	5.000	27.806	1242312.33	0.3483	A	0.2	456.1
4	☐	10.000	41.566	1230978.50	0.3498	A	0.1	315.7
5	☐	100.000	90.143	1205194.02	0.3549	A	0.6	-9.9
6	☐	200.000	202.756	1215354.33	0.3666	A	0.2	1.4

y = 1.0468E-004 * x + 0.3454
R = 0.9826
DL = 57.59 ppb
BEC = 3300 ppb

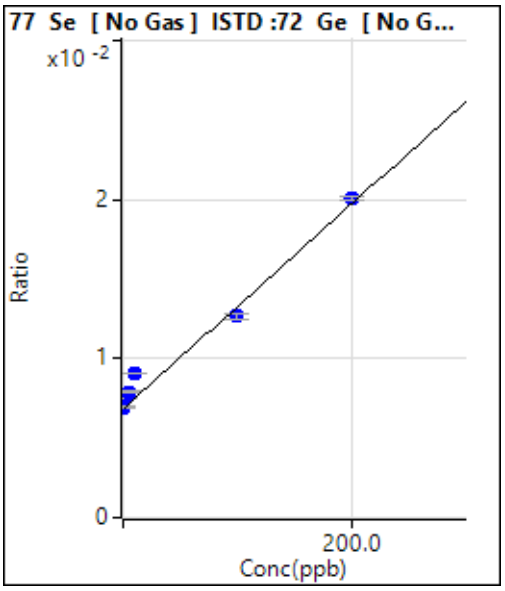
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366481.23	0.3486	P	1.1	
2	☐	2.000	48.090	369229.85	0.3526	P	1.5	2304.5
3	☐	5.000	36.512	363563.47	0.3516	P	1.1	630.2
4	☐	10.000	66.945	361524.51	0.3541	P	0.9	569.4
5	☐	100.000	154.505	350501.39	0.3614	P	1.2	54.5
6	☐	200.000	168.652	351611.58	0.3626	P	1.3	-15.7

y = 8.3210E-005 * x + 0.3486
R = 0.9063
DL = 135.9 ppb
BEC = 4189 ppb

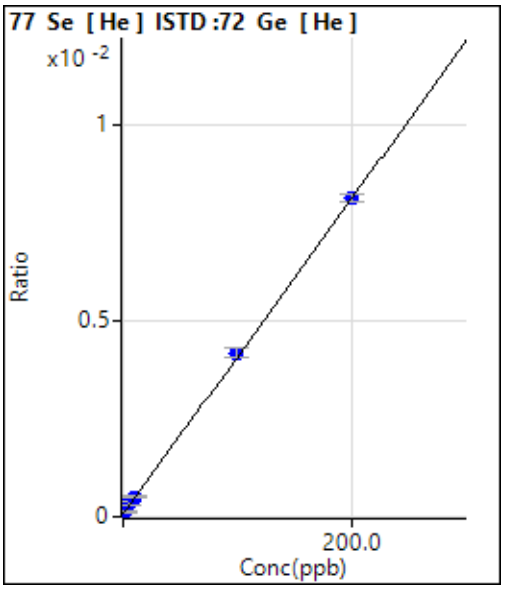
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	25327.12	0.0069	P	0.3	
2	☐	2.000	9.861	27488.06	0.0076	P	1.8	393.0
3	☐	5.000	14.315	28049.40	0.0079	P	1.5	186.3
4	☐	10.000	32.965	31894.33	0.0091	P	1.0	229.6
5	☐	100.000	88.673	42934.63	0.0126	P	2.5	-11.3
6	☐	200.000	204.204	66498.56	0.0201	P	1.1	2.1

y = 6.4230E-005 * x + 0.0069
R = 0.9910
DL = 1.081 ppb
BEC = 108.1 ppb

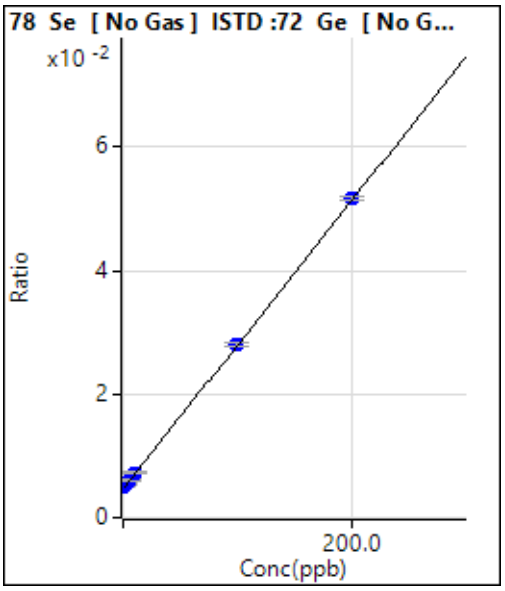
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.34	0.0001	P	54.3	
2	☐	2.000	0.708	143.34	0.0001	P	44.2	-64.6
3	☐	5.000	5.878	356.68	0.0003	P	18.0	17.6
4	☐	10.000	9.879	516.69	0.0005	P	6.1	-1.2
5	☐	100.000	101.057	4057.35	0.0042	P	5.6	1.1
6	☐	200.000	199.469	7902.42	0.0082	P	2.8	-0.3

y = 4.0319E-005 * x + 1.0794E-004
R = 0.9999
DL = 4.361 ppb
BEC = 2.677 ppb

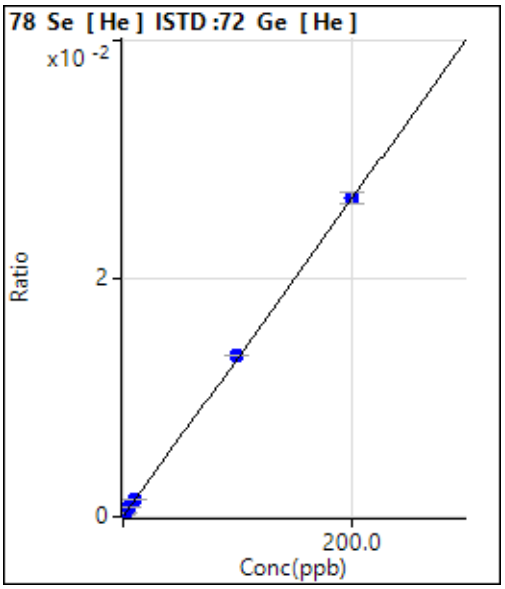
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17938.70	0.0049	P	2.2	
2	☐	2.000	2.233	19727.93	0.0054	P	1.5	11.6
3	☐	5.000	4.687	21440.55	0.0060	P	2.3	-6.3
4	☐	10.000	10.216	25691.13	0.0073	P	3.2	2.2
5	☐	100.000	98.802	94946.15	0.0280	P	2.2	-1.2
6	☐	200.000	200.594	171336.94	0.0517	P	1.7	0.3

y = 2.3317E-004 * x + 0.0049
R = 1.0000
DL = 1.385 ppb
BEC = 21.1 ppb

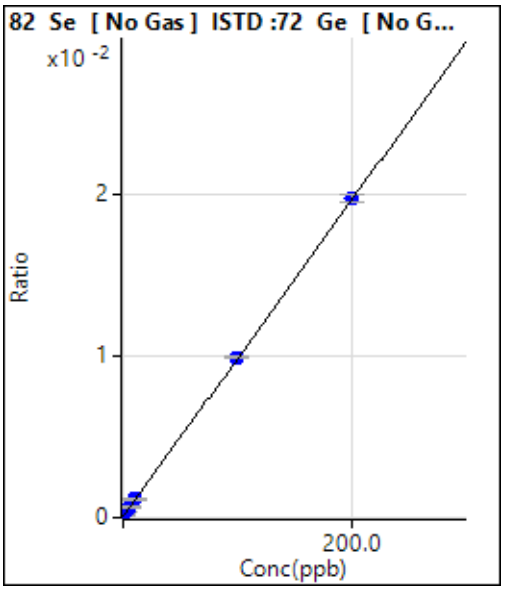
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	147.33	0.0001	P	28.0	
2	☐	2.000	1.709	385.34	0.0004	P	3.2	-14.5
3	☐	5.000	4.697	792.69	0.0008	P	7.5	-6.1
4	☐	10.000	9.558	1444.08	0.0014	P	3.2	-4.4
5	☐	100.000	100.808	13173.03	0.0136	P	0.2	0.8
6	☐	200.000	199.628	25942.65	0.0268	P	4.2	-0.2

y = 1.3334E-004 * x + 1.4015E-004
R = 1.0000
DL = 0.8815 ppb
BEC = 1.051 ppb

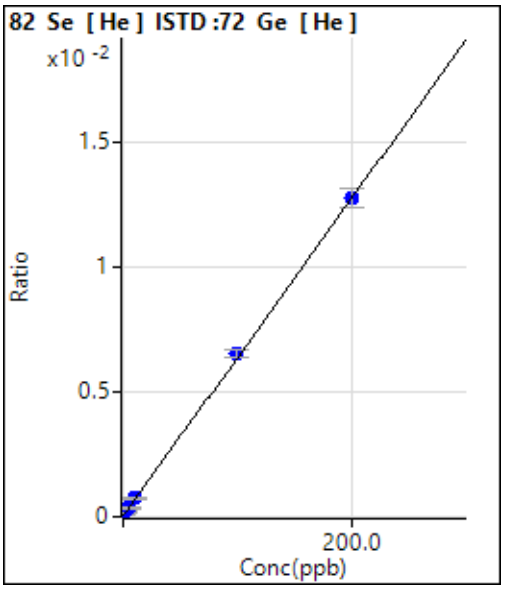
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.70	0.0002	P	18.5	
2	☐	2.000	2.006	1333.43	0.0004	P	12.0	0.3
3	☐	5.000	4.866	2306.90	0.0006	P	2.9	-2.7
4	☐	10.000	10.165	4094.02	0.0012	P	9.7	1.7
5	☐	100.000	99.620	33601.89	0.0099	P	1.3	-0.4
6	☐	200.000	200.185	65326.83	0.0197	P	2.2	0.1

y = 9.7590E-005 * x + 1.7197E-004
R = 1.0000
DL = 0.9754 ppb
BEC = 1.762 ppb

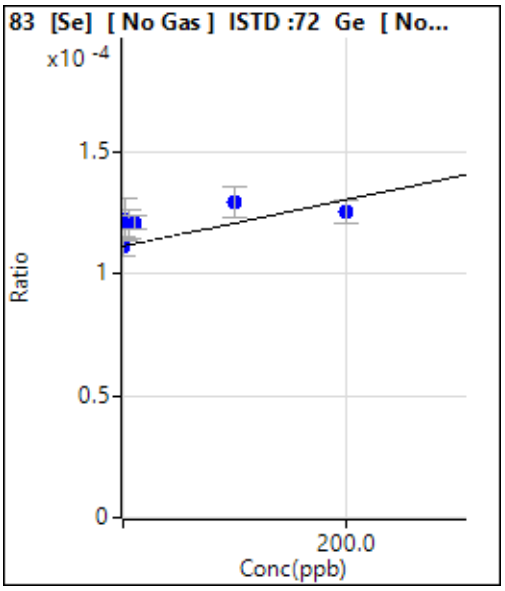
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	9.7	
2	☐	2.000	1.916	226.67	0.0002	P	27.7	-4.2
3	☐	5.000	3.976	360.01	0.0003	P	19.4	-20.5
4	☐	10.000	10.265	763.37	0.0007	P	10.9	2.6
5	☐	100.000	101.499	6348.26	0.0065	P	4.6	1.5
6	☐	200.000	199.264	12372.50	0.0128	P	5.9	-0.4

y = 6.3575E-005 * x + 9.5091E-005
R = 0.9999
DL = 0.4342 ppb
BEC = 1.496 ppb

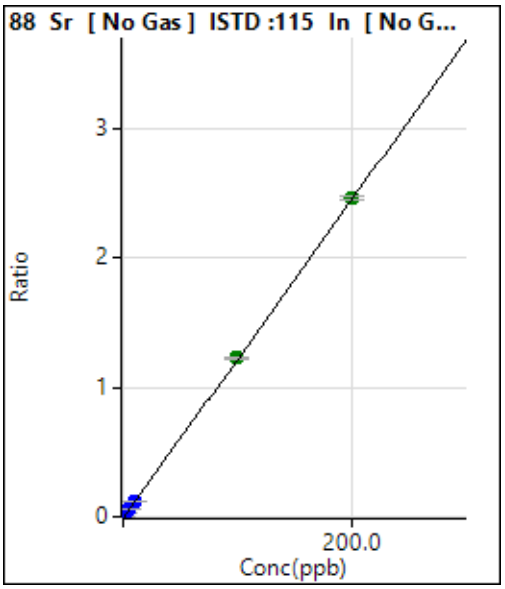
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	406.68	0.0001	P	7.4	
2	☐	2.000	112.119	443.35	0.0001	P	14.4	5506.0
3	☐	5.000	94.532	430.01	0.0001	P	10.1	1790.6
4	☐	10.000	101.445	426.68	0.0001	P	4.7	914.4
5	☐	100.000	188.560	440.02	0.0001	P	10.3	88.6
6	☐	200.000	147.808	416.68	0.0001	P	7.4	-26.1

y = 9.5946E-008 * x + 1.1150E-004
R = 0.6227
DL = 259.1 ppb
BEC = 1162 ppb

Weight: <None>
Min Conc: <None>

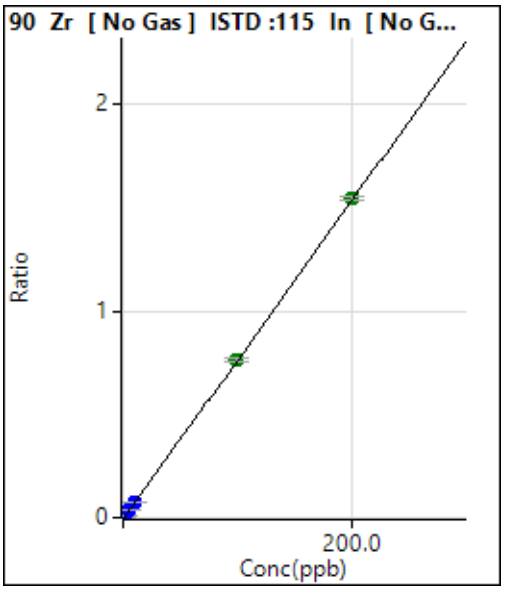


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3243.79	0.0006	P	2.4	
2	☐	2.000	1.891	121575.82	0.0239	P	2.9	-5.5
3	☐	5.000	4.814	297238.57	0.0598	P	2.9	-3.7
4	☐	10.000	9.788	598141.36	0.1209	P	1.3	-2.1
5	☐	100.000	99.672	5841576.58	1.2258	A	1.8	-0.3
6	☐	200.000	200.180	11477721.91	2.4614	A	1.3	0.1

y = 0.0123 * x + 6.3032E-004
R = 1.0000
DL = 0.003626 ppb
BEC = 0.05128 ppb

Weight: <None>
Min Conc: <None>

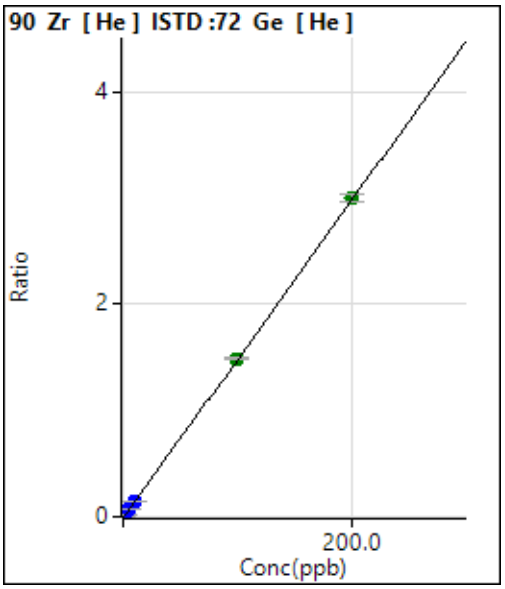
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1643.48	0.0003	P	3.6	
2	☐	2.000	1.530	61644.08	0.0121	P	2.9	-23.5
3	☐	5.000	4.318	166883.04	0.0336	P	2.5	-13.6
4	☐	10.000	9.245	353780.02	0.0715	P	1.5	-7.6
5	☐	100.000	99.045	3637456.72	0.7633	A	1.8	-1.0
6	☐	200.000	200.537	7205272.81	1.5452	A	1.0	0.3

y = 0.0077 * x + 3.1937E-004
R = 1.0000
DL = 0.004508 ppb
BEC = 0.04146 ppb

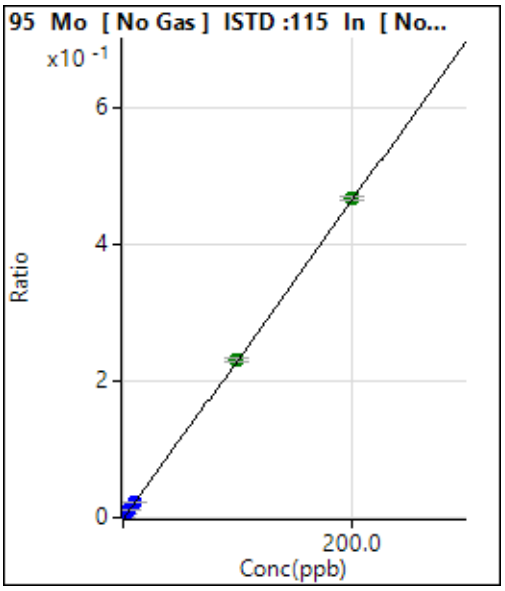
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1756.81	0.0017	P	4.5	
2	☐	2.000	1.493	25133.68	0.0240	P	4.4	-25.3
3	☐	5.000	4.231	67156.83	0.0649	P	4.1	-15.4
4	☐	10.000	9.130	141066.41	0.1382	P	2.0	-8.7
5	☐	100.000	99.181	1439931.75	1.4848	A	1.4	-0.8
6	☐	200.000	200.477	2908314.44	2.9995	A	2.8	0.2

y = 0.0150 * x + 0.0017
R = 1.0000
DL = 0.01499 ppb
BEC = 0.1117 ppb

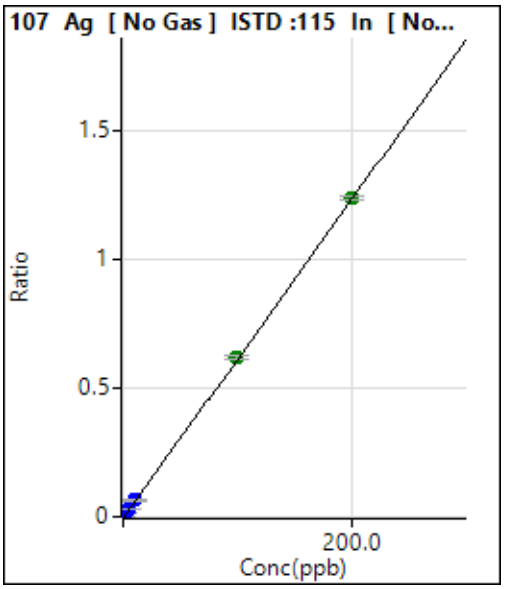
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0000	P	32.4	
2	☐	2.000	1.906	22796.24	0.0045	P	5.3	-4.7
3	☐	5.000	4.857	56414.97	0.0114	P	3.5	-2.9
4	☐	10.000	10.011	115525.56	0.0234	P	3.4	0.1
5	☐	100.000	98.826	1097333.92	0.2303	A	2.4	-1.2
6	☐	200.000	200.591	2179323.67	0.4674	A	0.9	0.3

y = 0.0023 * x + 3.6244E-005
R = 1.0000
DL = 0.01512 ppb
BEC = 0.01556 ppb

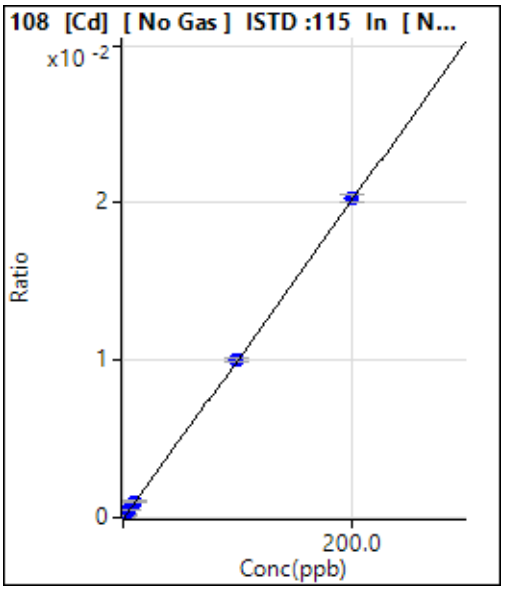
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0001	P	12.1	
2	☐	2.000	1.991	63075.50	0.0124	P	2.8	-0.4
3	☐	5.000	5.051	155559.92	0.0313	P	1.9	1.0
4	☐	10.000	10.310	315587.03	0.0638	P	2.2	3.1
5	☐	100.000	100.027	2947292.25	0.6185	A	1.7	0.0
6	☐	200.000	199.970	5765372.41	1.2364	A	1.3	0.0

y = 0.0062 * x + 7.1920E-005
R = 1.0000
DL = 0.004233 ppb
BEC = 0.01163 ppb

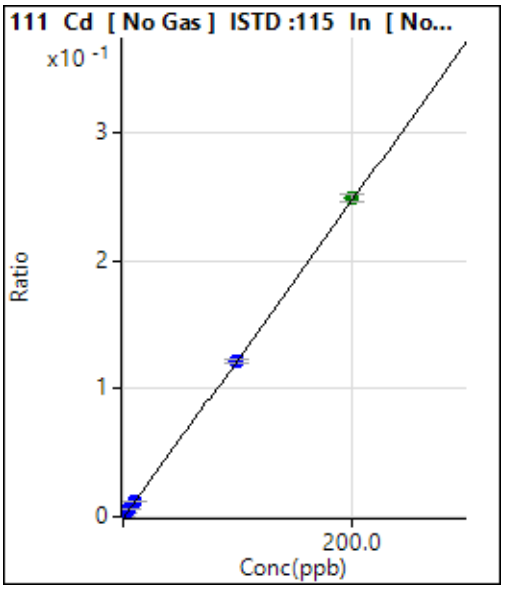
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	1.961	1023.40	0.0002	P	17.8	-1.9
3	☐	5.000	5.047	2550.31	0.0005	P	3.1	0.9
4	☐	10.000	10.091	5061.05	0.0010	P	7.2	0.9
5	☐	100.000	98.947	47708.71	0.0100	P	1.9	-1.1
6	☐	200.000	200.521	94607.17	0.0203	P	2.5	0.3

y = 1.0116E-004 * x + 2.5896E-006
R = 1.0000
DL = 0.06651 ppb
BEC = 0.0256 ppb

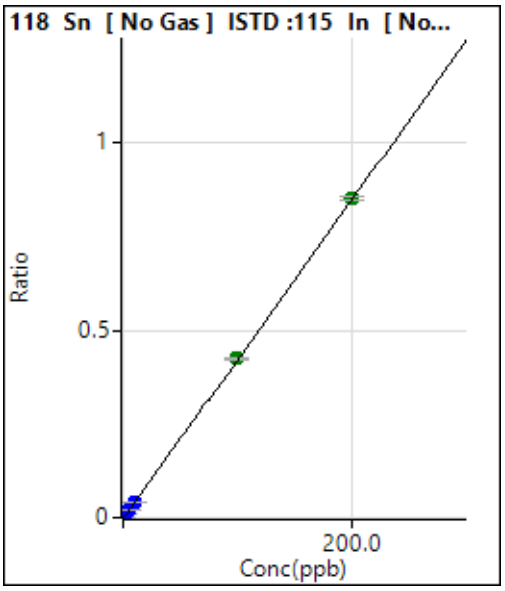
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-0.97	0.0000	P	-2100.	
2	☐	2.000	1.896	11948.48	0.0023	P	7.1	-5.2
3	☐	5.000	4.998	30742.46	0.0062	P	3.3	0.0
4	☐	10.000	9.862	60368.26	0.0122	P	1.0	-1.4
5	☐	100.000	98.072	578468.91	0.1214	P	2.0	-1.9
6	☐	200.000	200.972	1160024.12	0.2488	A	2.0	0.5

y = 0.0012 * x - 1.9229E-007
R = 0.9999
DL = 0.009788 ppb
BEC = -0.0001553 ppb

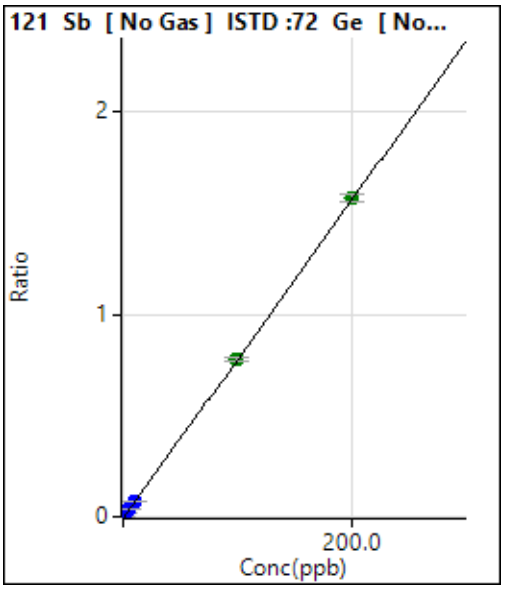
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6208.23	0.0012	P	10.1	
2	☐	2.000	1.930	47916.62	0.0094	P	2.9	-3.5
3	☐	5.000	4.911	109703.60	0.0221	P	2.7	-1.8
4	☐	10.000	9.865	213280.86	0.0431	P	1.2	-1.4
5	☐	100.000	99.758	2025766.32	0.4251	A	1.4	-0.2
6	☐	200.000	200.131	3971292.65	0.8516	A	1.5	0.1

y = 0.0042 * x + 0.0012
R = 1.0000
DL = 0.08604 ppb
BEC = 0.284 ppb

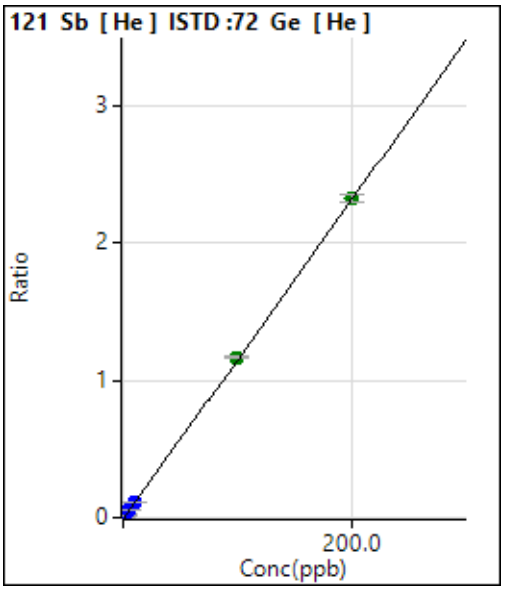
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	703.36	0.0002	P	4.7	
2	☐	2.000	1.887	54475.33	0.0150	P	0.3	-5.7
3	☐	5.000	4.871	137223.71	0.0385	P	1.7	-2.6
4	☐	10.000	9.875	273761.82	0.0778	P	2.2	-1.2
5	☐	100.000	99.131	2646404.39	0.7792	A	2.2	-0.9
6	☐	200.000	200.445	5221636.07	1.5754	A	2.3	0.2

y = 0.0079 * x + 1.9291E-004
R = 1.0000
DL = 0.003448 ppb
BEC = 0.02455 ppb

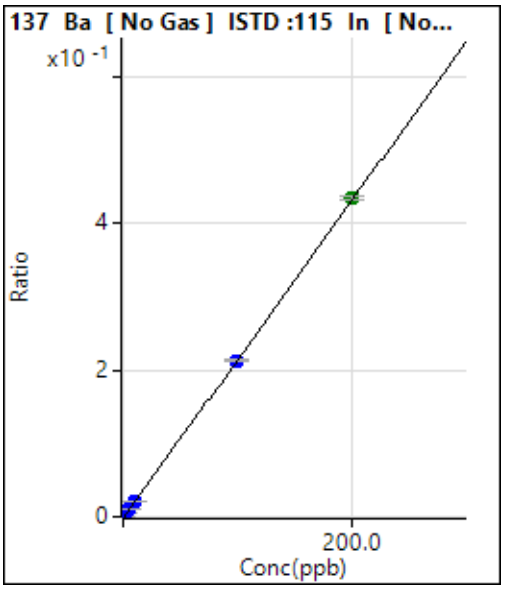
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	22.2	
2	☐	2.000	1.797	22202.22	0.0212	P	2.0	-10.2
3	☐	5.000	4.737	57270.27	0.0554	P	0.6	-5.3
4	☐	10.000	9.812	116754.38	0.1144	P	2.3	-1.9
5	☐	100.000	100.109	1128856.18	1.1640	A	1.4	0.1
6	☐	200.000	199.963	2254087.41	2.3247	A	2.2	0.0

y = 0.0116 * x + 3.1689E-004
R = 1.0000
DL = 0.01817 ppb
BEC = 0.02726 ppb

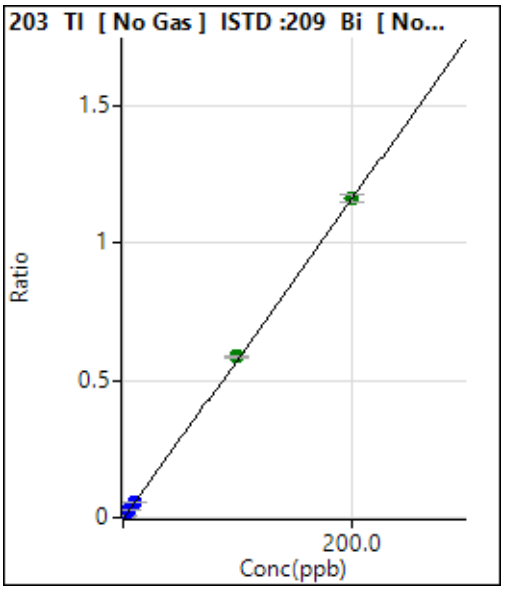
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	813.37	0.0002	P	7.2	
2	☐	2.000	2.109	24028.92	0.0047	P	1.4	5.5
3	☐	5.000	4.877	53174.64	0.0107	P	2.1	-2.5
4	☐	10.000	9.835	105908.60	0.0214	P	1.1	-1.7
5	☐	100.000	98.443	1014679.88	0.2129	P	1.2	-1.6
6	☐	200.000	200.789	2024538.35	0.4341	A	1.4	0.4

y = 0.0022 * x + 1.5806E-004
R = 1.0000
DL = 0.01589 ppb
BEC = 0.07313 ppb

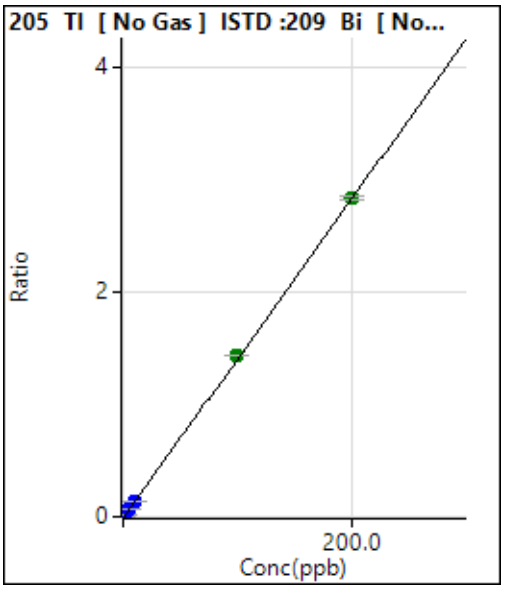
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	730.04	0.0001	P	15.1	
2	☐	2.000	1.652	53607.41	0.0098	P	0.6	-17.4
3	☐	5.000	4.842	152701.87	0.0284	P	0.3	-3.2
4	☐	10.000	9.457	296169.43	0.0552	P	1.2	-5.4
5	☐	100.000	100.622	3027705.58	0.5865	A	0.6	0.6
6	☐	200.000	199.724	5874836.16	1.1641	A	2.2	-0.1

y = 0.0058 * x + 1.3153E-004
R = 1.0000
DL = 0.01024 ppb
BEC = 0.02257 ppb

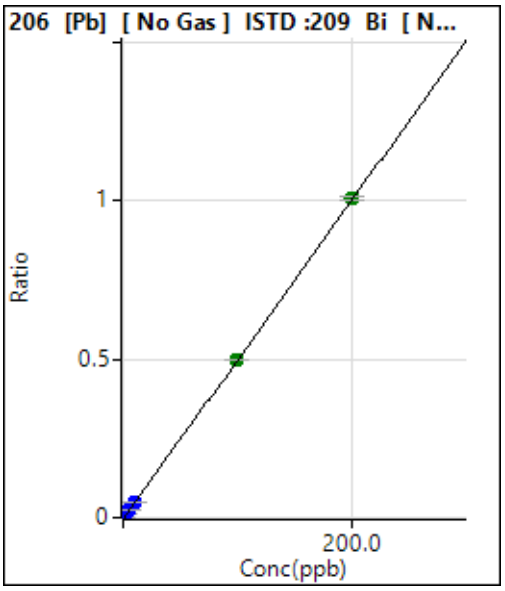
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1996.86	0.0004	P	6.0	
2	☐	2.000	1.634	129578.22	0.0236	P	3.2	-18.3
3	☐	5.000	4.699	361702.04	0.0672	P	1.9	-6.0
4	☐	10.000	9.227	705021.99	0.1315	P	0.9	-7.7
5	☐	100.000	100.820	7399073.85	1.4334	A	0.7	0.8
6	☐	200.000	199.640	14322744.79	2.8379	A	1.7	-0.2

y = 0.0142 * x + 3.5987E-004
R = 1.0000
DL = 0.004558 ppb
BEC = 0.02532 ppb

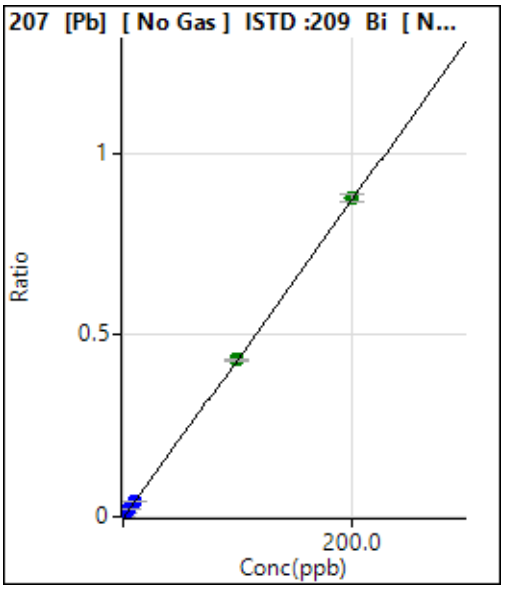
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1213.43	0.0002	P	17.3	
2	☐	2.000	1.893	53503.70	0.0097	P	2.2	-5.3
3	☐	5.000	4.873	133113.80	0.0247	P	1.9	-2.5
4	☐	10.000	9.940	269069.84	0.0502	P	0.8	-0.6
5	☐	100.000	99.279	2577457.46	0.4993	A	0.5	-0.7
6	☐	200.000	200.368	5084786.38	1.0075	A	1.5	0.2

y = 0.0050 * x + 2.1879E-004
R = 1.0000
DL = 0.02254 ppb
BEC = 0.04352 ppb

Weight: <None>
Min Conc: <None>

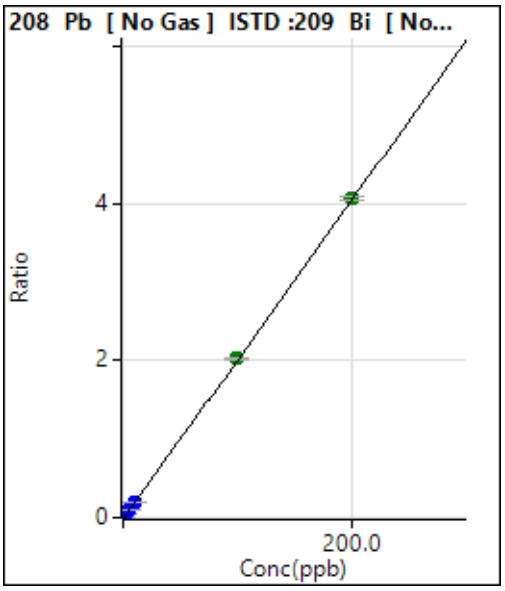


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1096.81	0.0002	P	13.2	
2	☐	2.000	1.871	46014.07	0.0084	P	0.7	-6.4
3	☐	5.000	4.952	117636.39	0.0218	P	1.0	-1.0
4	☐	10.000	9.948	234132.76	0.0437	P	1.1	-0.5
5	☐	100.000	98.923	2232702.21	0.4325	A	1.1	-1.1
6	☐	200.000	200.543	4424276.08	0.8766	A	1.9	0.3

y = 0.0044 * x + 1.9776E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.04525 ppb

Weight: <None>
Min Conc: <None>

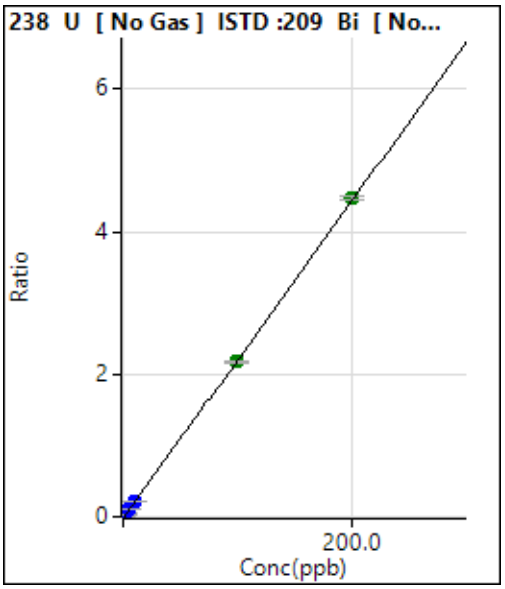
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4787.19	0.0009	P	8.1	
2	☐	2.000	1.872	213589.44	0.0389	P	2.1	-6.4
3	☐	5.000	4.840	534140.95	0.0992	P	1.3	-3.2
4	☐	10.000	9.814	1073244.63	0.2002	P	0.8	-1.9
5	☐	100.000	99.517	10438210.00	2.0221	A	1.1	-0.5
6	☐	200.000	200.256	20531264.80	4.0681	A	1.7	0.1

y = 0.0203 * x + 8.6300E-004
R = 1.0000
DL = 0.01029 ppb
BEC = 0.04249 ppb

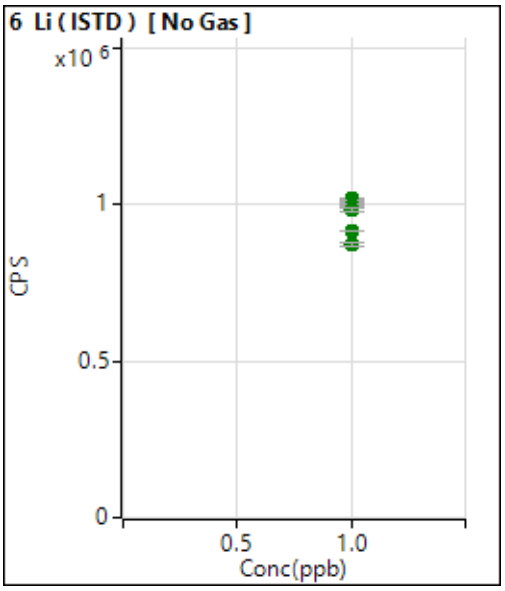
Weight: <None>
Min Conc: <None>



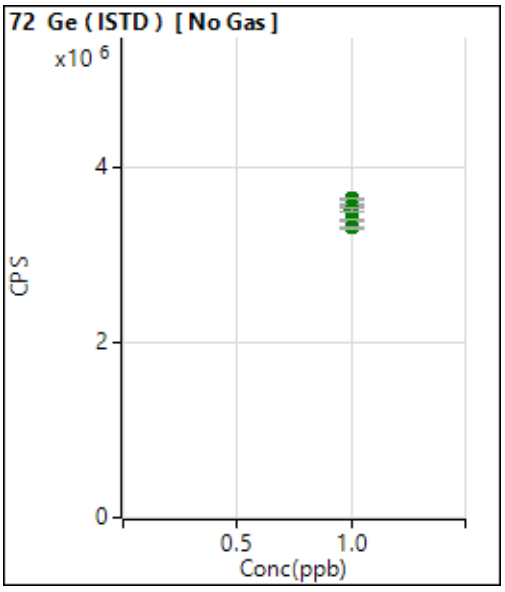
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3160.47	0.0006	P	6.0	
2	☐	2.000	1.778	220531.44	0.0401	P	2.0	-11.1
3	☐	5.000	4.627	557513.72	0.1035	P	2.1	-7.5
4	☐	10.000	9.359	1119490.77	0.2088	P	1.0	-6.4
5	☐	100.000	98.013	11260761.50	2.1814	A	1.3	-2.0
6	☐	200.000	201.037	22578060.50	4.4737	A	1.7	0.5

y = 0.0223 * x + 5.6967E-004
R = 0.9999
DL = 0.004613 ppb
BEC = 0.0256 ppb

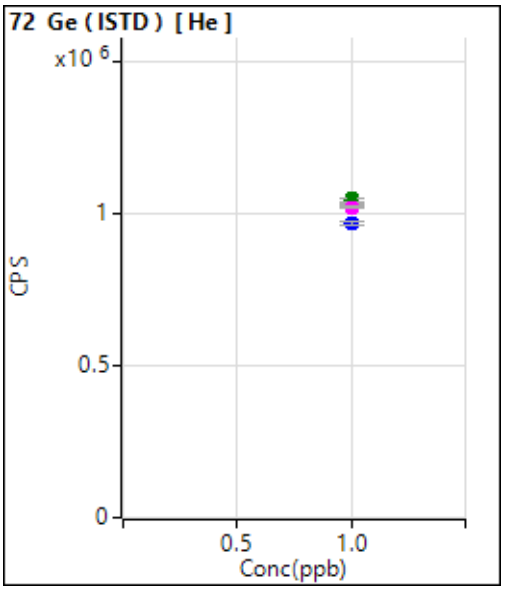
Weight: <None>
Min Conc: <None>



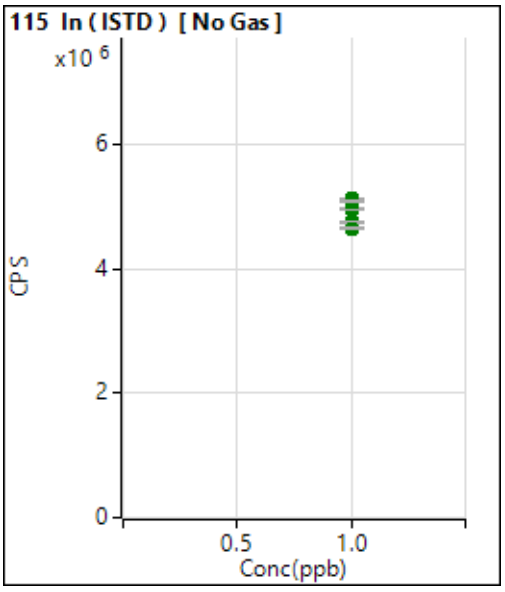
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1020039.89		A	0.1	
2	☐	1.000		1010092.07		A	0.4	
3	☐	1.000		997164.74		A	0.4	
4	☐	1.000		983995.18		A	0.9	
5	☐	1.000		914781.54		A	0.5	
6	☐	1.000		872359.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3646514.53		A	0.5	
2	☐	1.000		3626668.49		A	0.5	
3	☐	1.000		3566538.07		A	0.7	
4	☐	1.000		3519434.43		A	1.0	
5	☐	1.000		3396379.22		A	0.5	
6	☐	1.000		3314861.72		A	0.7	

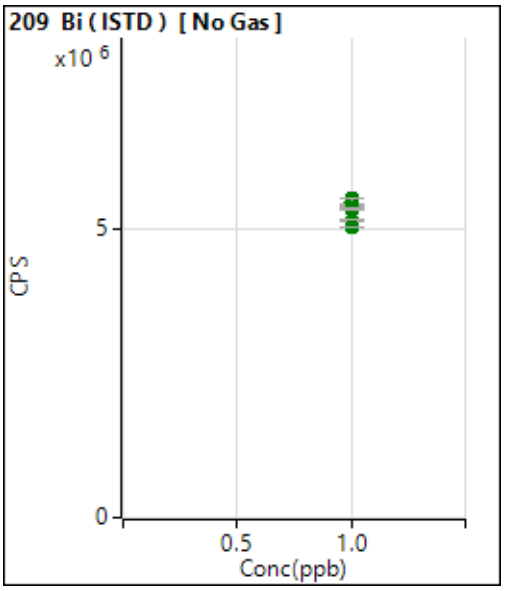


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1051401.00		A	0.4	
2	☐	1.000		1047146.91		A	1.1	
3	☐	1.000		1034070.84		A	0.7	
4	☐	1.000		1020836.86		M	0.5	
5	☐	1.000		969884.26		P	1.3	
6	☐	1.000		969784.23		P	1.1	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5146220.51		A	0.4	
2	☐	1.000		5093500.24		A	0.4	
3	☐	1.000		4969773.97		A	0.3	
4	☐	1.000		4945533.58		A	0.0	
5	☐	1.000		4765147.85		A	0.4	
6	☐	1.000		4662977.46		A	0.7	

Calibration for 140_ICV.d



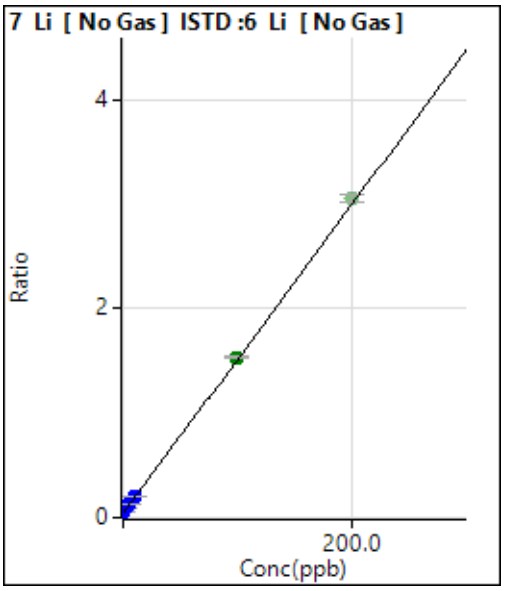
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5548360.75		A	0.4	
2	☐	1.000		5494022.21		A	1.5	
3	☐	1.000		5385780.54		A	0.5	
4	☐	1.000		5360983.46		A	0.5	
5	☐	1.000		5161866.80		A	0.7	
6	☐	1.000		5046773.47		A	0.6	

Calibration for 021_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/26/2024 10:42:15 AM
2	011CALS.d	2/10/200	6/26/2024 10:44:58 AM
3	012CALS.d	5/25/500	6/26/2024 10:47:39 AM
4	013CALS.d	10/50/100	6/26/2024 10:50:20 AM
5	018CALS.d	100/500/10K	6/26/2024 11:06:59 AM
6	019CALS.d	200/1000/20K	6/26/2024 11:09:29 AM

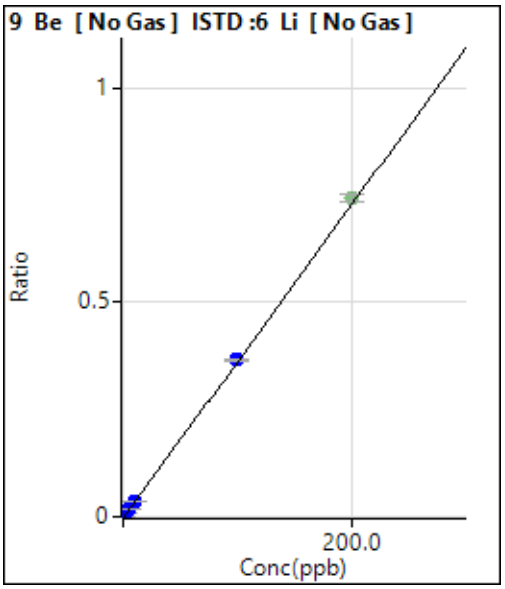
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73766.09	0.0562	P	1.0	
2	☐	2.000	1.894	109167.18	0.0842	P	0.9	-5.3
3	☐	5.000	4.769	161883.22	0.1267	P	1.5	-4.6
4	☐	10.000	9.751	252585.33	0.2002	P	1.7	-2.5
5	☐	100.000	100.039	1839078.05	1.5332	A	1.4	0.0
6	☑	200.000		3466147.03	3.0558	A	2.3	

y = 0.0148 * x + 0.0562
R = 1.0000
DL = 0.1166 ppb
BEC = 3.81 ppb

Weight: <None>
Min Conc: <None>

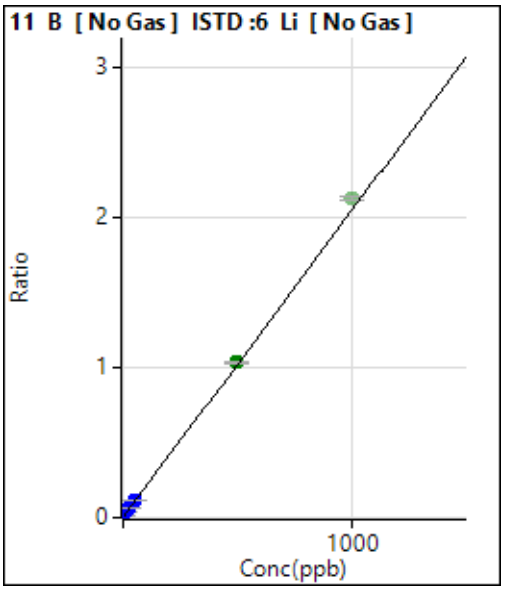


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	151.67	0.0001	P	1.5	
2	☐	2.000	1.920	9258.07	0.0071	P	4.9	-4.0
3	☐	5.000	4.751	22374.32	0.0175	P	3.2	-5.0
4	☐	10.000	9.836	45561.00	0.0361	P	2.1	-1.6
5	☐	100.000	100.030	439242.92	0.3662	P	1.8	0.0
6	☑	200.000		843817.41	0.7439	A	2.9	

y = 0.0037 * x + 1.1564E-004
R = 1.0000
DL = 0.001434 ppb
BEC = 0.0316 ppb

Weight: <None>
Min Conc: <None>

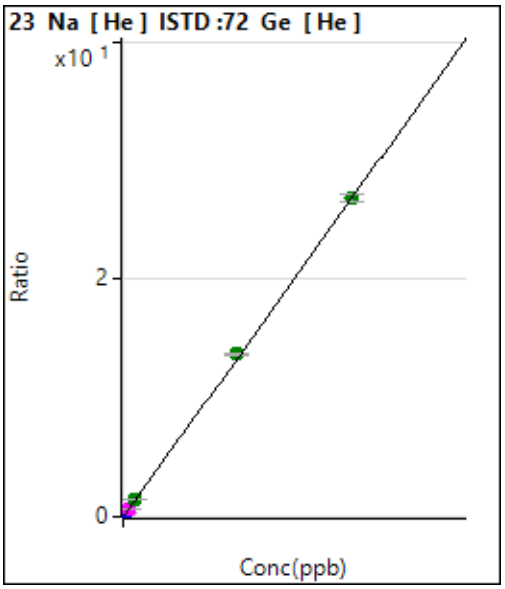
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18710.69	0.0143	P	0.2	
2	☐	10.000	9.980	44891.16	0.0346	P	2.1	-0.2
3	☐	25.000	23.408	79277.84	0.0620	P	2.1	-6.4
4	☐	50.000	48.870	143787.28	0.1140	P	1.6	-2.3
5	☐	500.000	500.193	1241149.15	1.0347	A	1.0	0.0
6	☑	1000.000		2411542.31	2.1260	A	1.8	

y = 0.0020 * x + 0.0143
R = 1.0000
DL = 0.04583 ppb
BEC = 6.993 ppb

Weight: <None>
Min Conc: <None>

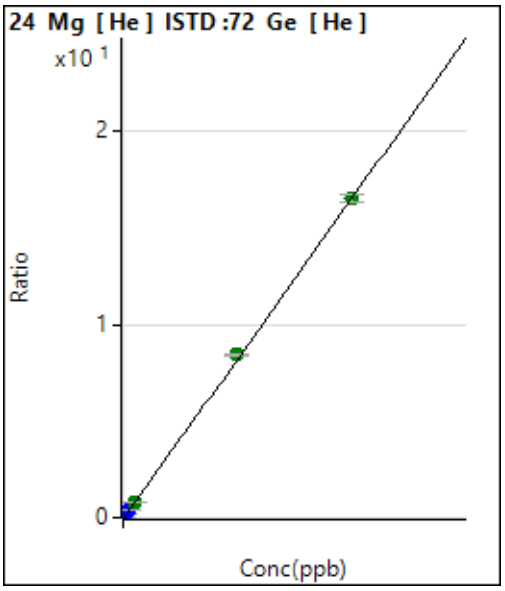


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95799.83	0.0935	P	1.4	
2	☐	200.000	187.897	353013.68	0.3458	P	1.4	-6.1
3	☐	500.000	462.260	725631.21	0.7142	M	3.3	-7.5
4	☐	1000.000	990.753	1443041.90	1.4238	A	1.6	-0.9
5	☐	10000.00	10152.23	13562841.88	13.7248	A	1.1	1.5
6	☐	20000.00	19925.40	26127261.28	26.8471	A	2.0	-0.4

y = 0.0013 * x + 0.0935
R = 1.0000
DL = 2.973 ppb
BEC = 69.67 ppb

Weight: <None>
Min Conc: <None>

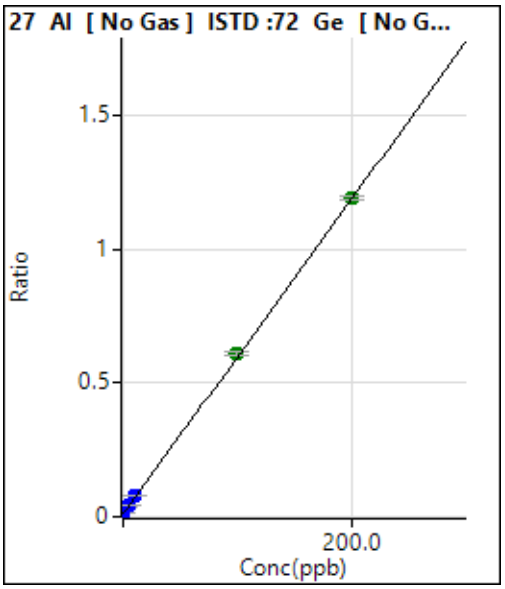
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1183.40	0.0012	P	12.3	
2	☐	200.000	190.743	163017.44	0.1597	P	2.6	-4.6
3	☐	500.000	465.178	393954.77	0.3878	P	3.2	-7.0
4	☐	1000.000	991.890	836660.51	0.8255	A	1.8	-0.8
5	☐	10000.00	10171.81	8355099.04	8.4548	A	1.2	1.7
6	☐	20000.00	19915.46	16108926.43	16.5527	A	2.7	-0.4

y = 8.3109E-004 * x + 0.0012
R = 0.9999
DL = 0.5122 ppb
BEC = 1.391 ppb

Weight: <None>
Min Conc: <None>

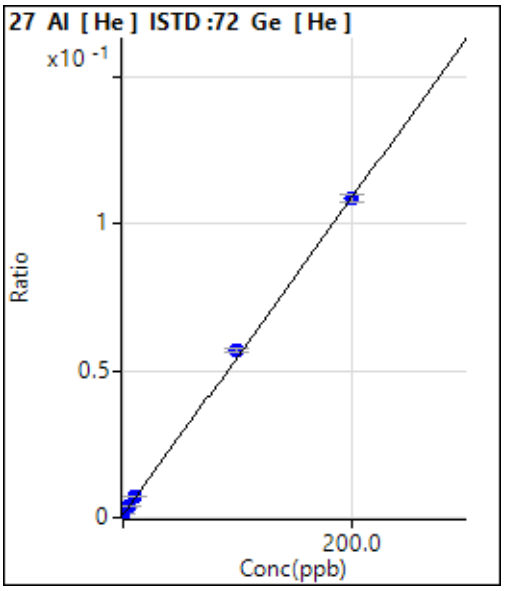


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59947.83	0.0165	P	1.1	
2	☐	2.000	3.347	130486.80	0.0363	P	3.7	67.3
3	☐	5.000	4.917	162171.59	0.0455	P	1.8	-1.7
4	☐	10.000	10.481	276085.77	0.0783	P	1.8	4.8
5	☐	100.000	100.685	2108614.08	0.6102	A	1.7	0.7
6	☐	200.000	199.622	3998173.79	1.1936	A	1.4	-0.2

y = 0.0059 * x + 0.0165
R = 1.0000
DL = 0.09435 ppb
BEC = 2.804 ppb

Weight: <None>
Min Conc: <None>

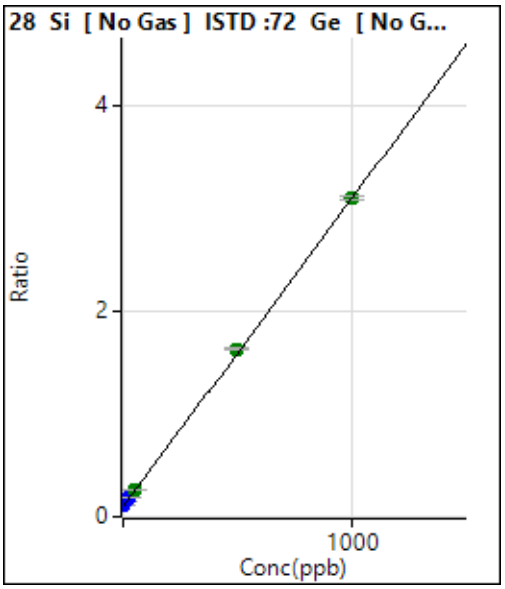
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1503.44	0.0015	P	16.4	
2	☐	2.000	3.164	3243.77	0.0032	P	8.6	58.2
3	☐	5.000	4.704	4070.66	0.0040	P	5.1	-5.9
4	☐	10.000	10.398	7175.28	0.0071	P	0.6	4.0
5	☐	100.000	102.614	56178.74	0.0569	P	3.0	2.6
6	☐	200.000	198.669	105778.78	0.1087	P	2.6	-0.7

y = 5.3971E-004 * x + 0.0015
R = 0.9999
DL = 1.335 ppb
BEC = 2.72 ppb

Weight: <None>
Min Conc: <None>

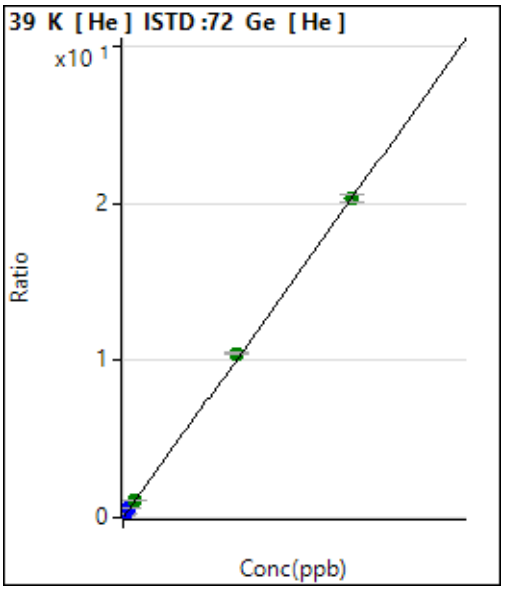


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	409185.78	0.1129	P	1.3	
2	☐	10.000	11.595	531313.48	0.1477	P	1.2	16.0
3	☐	25.000	25.576	675399.63	0.1896	P	1.1	2.3
4	☐	50.000	51.490	942177.72	0.2673	A	1.4	3.0
5	☐	500.000	505.434	5629439.92	1.6291	A	1.4	1.1
6	☐	1000.000	997.178	10398479.43	3.1042	A	1.2	-0.3

y = 0.0030 * x + 0.1129
R = 1.0000
DL = 1.499 ppb
BEC = 37.63 ppb

Weight: <None>
Min Conc: <None>

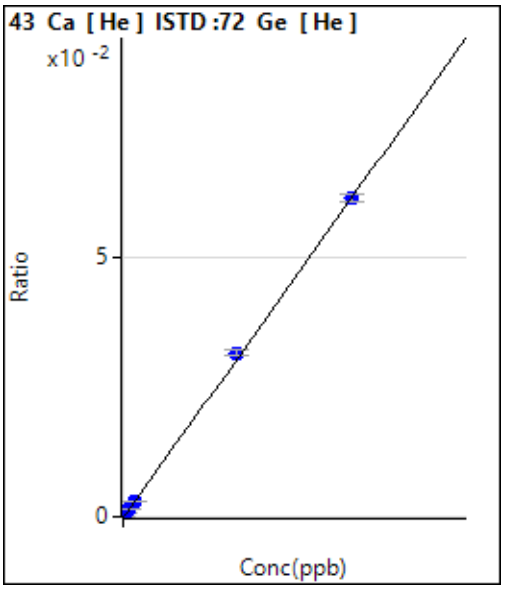
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96273.60	0.0940	P	0.9	
2	☐	200.000	190.380	293450.63	0.2875	P	1.4	-4.8
3	☐	500.000	461.318	571831.06	0.5628	P	1.6	-7.7
4	☐	1000.000	986.820	1111672.46	1.0969	A	1.6	-1.3
5	☐	10000.00	10189.95	10326336.30	10.4496	A	1.3	1.9
6	☐	20000.00	19906.74	19779665.54	20.3243	A	2.3	-0.5

y = 0.0010 * x + 0.0940
R = 0.9999
DL = 2.521 ppb
BEC = 92.49 ppb

Weight: <None>
Min Conc: <None>

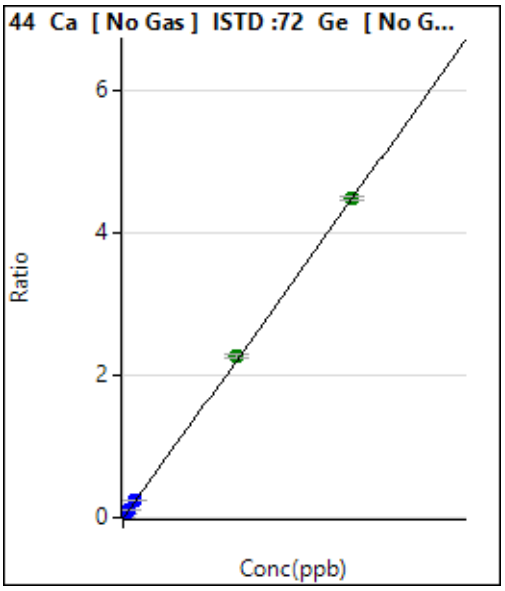


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	53.3	
2	☐	200.000	197.281	670.03	0.0007	P	8.0	-1.4
3	☐	500.000	436.412	1420.10	0.0014	P	9.9	-12.7
4	☐	1000.000	957.556	3053.72	0.0030	P	5.7	-4.2
5	☐	10000.00	10223.79	31352.24	0.0317	P	3.0	2.2
6	☐	20000.00	19891.84	60032.57	0.0617	P	2.9	-0.5

y = 3.0987E-006 * x + 4.5465E-005
R = 0.9999
DL = 23.48 ppb
BEC = 14.67 ppb

Weight: <None>
Min Conc: <None>

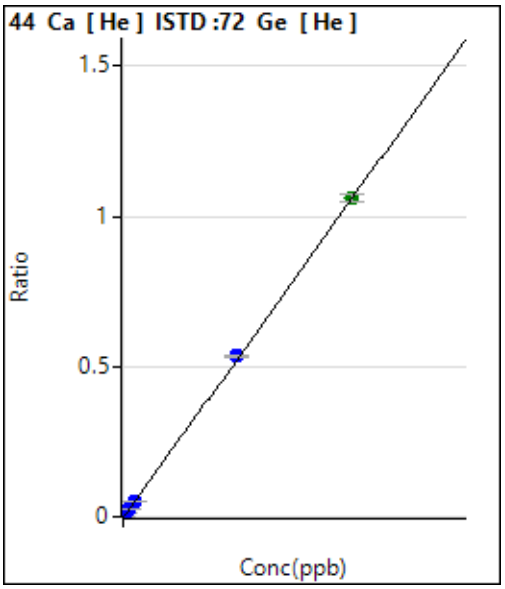
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38924.97	0.0107	P	1.2	
2	☐	200.000	202.706	202207.96	0.0562	P	3.9	1.4
3	☐	500.000	486.698	427151.40	0.1199	P	2.1	-2.7
4	☐	1000.000	994.165	823782.98	0.2337	P	2.1	-0.6
5	☐	10000.00	10094.04	7861349.67	2.2750	A	1.8	0.9
6	☐	20000.00	19953.57	15029153.94	4.4866	A	1.1	-0.2

y = 2.2432E-004 * x + 0.0107
R = 1.0000
DL = 1.669 ppb
BEC = 47.86 ppb

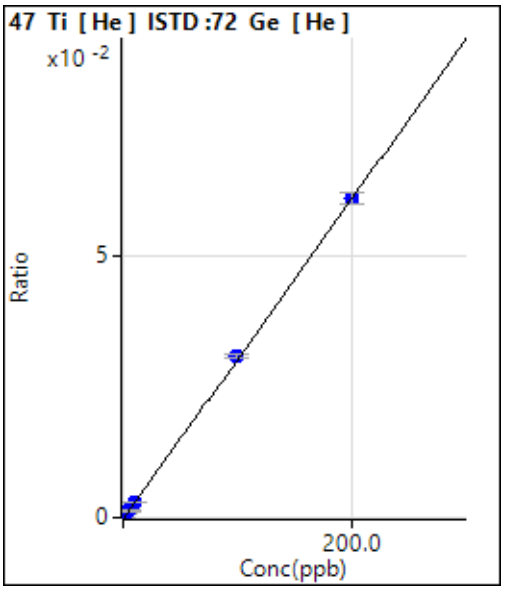
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0008	P	14.0	
2	☐	200.000	199.401	11671.74	0.0114	P	3.5	-0.3
3	☐	500.000	457.772	25560.40	0.0252	P	4.4	-8.4
4	☐	1000.000	987.118	53995.18	0.0533	P	1.2	-1.3
5	☐	10000.00	10079.51	529956.54	0.5363	P	0.9	0.8
6	☐	20000.00	19961.94	1032824.41	1.0613	A	2.8	-0.2

y = 5.3122E-005 * x + 8.4230E-004
R = 1.0000
DL = 6.667 ppb
BEC = 15.86 ppb

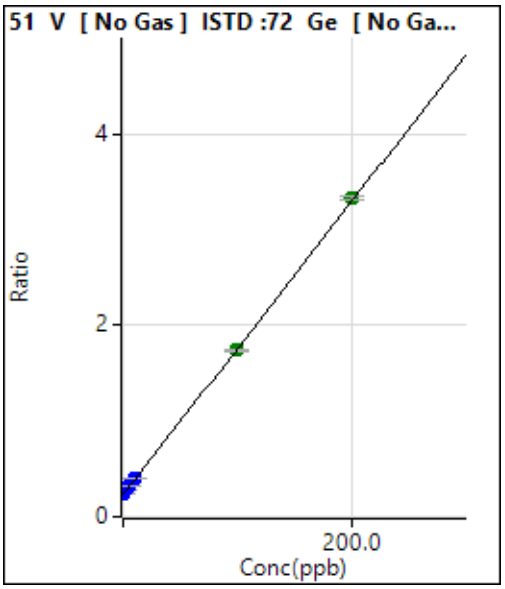
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.065	650.02	0.0006	P	9.5	3.2
3	☐	5.000	4.398	1370.10	0.0013	P	16.5	-12.0
4	☐	10.000	9.405	2917.03	0.0029	P	5.6	-5.9
5	☐	100.000	101.126	30517.18	0.0309	P	2.3	1.1
6	☐	200.000	199.481	59276.58	0.0609	P	3.8	-0.3

y = 3.0530E-004 * x + 6.4965E-006
R = 1.0000
DL = 0.05529 ppb
BEC = 0.02128 ppb

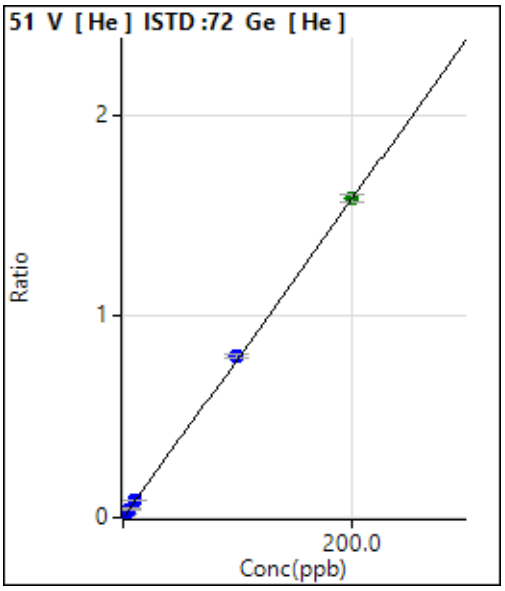
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	898774.18	0.2479	P	0.4	
2	☐	2.000	1.942	998926.92	0.2776	P	2.9	-2.9
3	☐	5.000	4.451	1125876.97	0.3161	P	1.5	-11.0
4	☐	10.000	10.135	1420588.30	0.4031	P	1.3	1.4
5	☐	100.000	97.249	6001487.77	1.7367	A	1.9	-2.8
6	☐	200.000	201.383	11158012.07	3.3310	A	1.3	0.7

y = 0.0153 * x + 0.2479
R = 0.9999
DL = 0.2155 ppb
BEC = 16.19 ppb

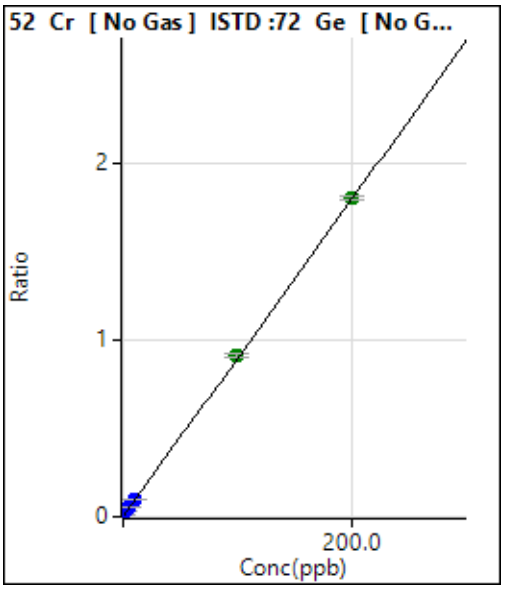
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6458.20	0.0063	P	3.0	
2	☐	2.000	1.912	21895.13	0.0214	P	2.4	-4.4
3	☐	5.000	4.587	43309.59	0.0426	P	3.5	-8.3
4	☐	10.000	9.690	84156.78	0.0830	P	1.7	-3.1
5	☐	100.000	100.595	793394.60	0.8029	P	1.5	0.6
6	☐	200.000	199.729	1545285.35	1.5878	A	2.5	-0.1

y = 0.0079 * x + 0.0063
R = 1.0000
DL = 0.07219 ppb
BEC = 0.7964 ppb

Weight: <None>
Min Conc: <None>

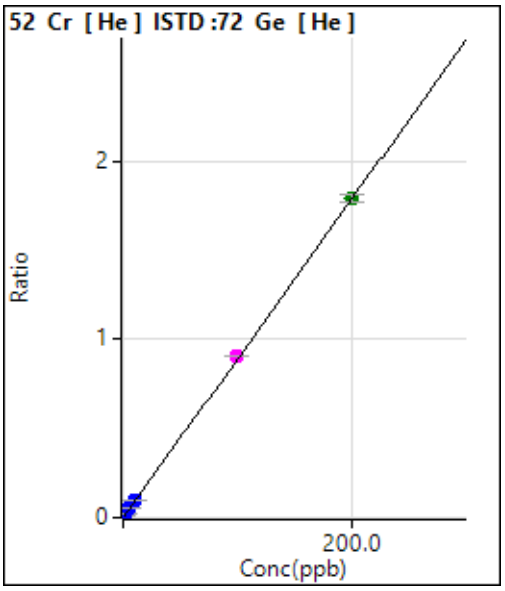


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38527.15	0.0106	P	1.1	
2	☐	2.000	1.935	100543.18	0.0279	P	4.0	-3.3
3	☐	5.000	4.767	189908.25	0.0533	P	2.3	-4.7
4	☐	10.000	9.750	345108.59	0.0979	P	1.7	-2.5
5	☐	100.000	100.259	3138553.39	0.9083	A	2.1	0.3
6	☐	200.000	199.889	6030638.45	1.8003	A	1.7	-0.1

y = 0.0090 * x + 0.0106
R = 1.0000
DL = 0.04009 ppb
BEC = 1.187 ppb

Weight: <None>
Min Conc: <None>

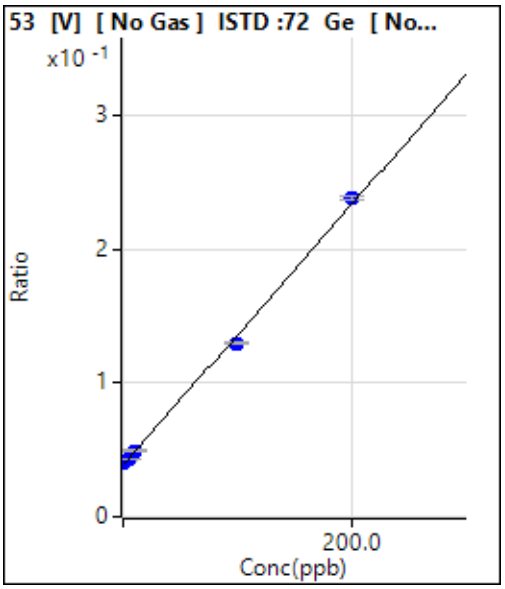
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8549.46	0.0083	P	1.0	
2	☐	2.000	1.875	25620.65	0.0251	P	0.7	-6.2
3	☐	5.000	4.722	51335.22	0.0505	P	4.7	-5.6
4	☐	10.000	10.025	99219.98	0.0979	P	1.7	0.2
5	☐	100.000	100.803	898049.36	0.9088	M	0.4	0.8
6	☐	200.000	199.605	1743351.59	1.7914	A	2.4	-0.2

y = 0.0089 * x + 0.0083
R = 1.0000
DL = 0.02943 ppb
BEC = 0.9345 ppb

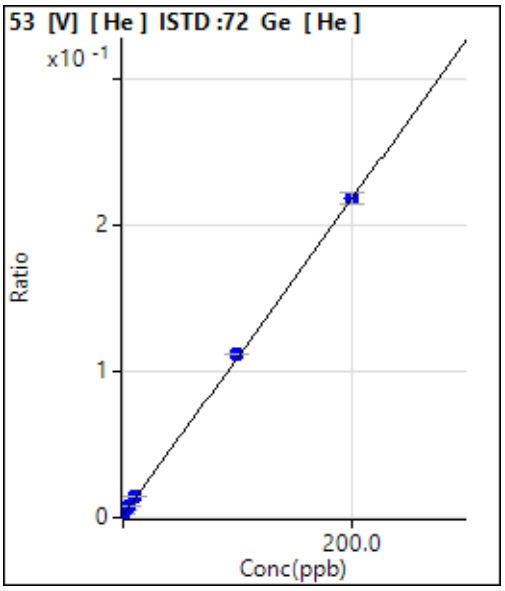
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145003.04	0.0400	P	0.4	
2	☐	2.000	1.823	150279.69	0.0418	P	2.7	-8.9
3	☐	5.000	3.259	153763.79	0.0432	P	1.3	-34.8
4	☐	10.000	9.700	174195.21	0.0494	P	1.0	-3.0
5	☐	100.000	92.327	448321.17	0.1297	P	1.6	-7.7
6	☐	200.000	203.897	797864.18	0.2382	P	1.3	1.9

y = 9.7199E-004 * x + 0.0400
R = 0.9990
DL = 0.4971 ppb
BEC = 41.15 ppb

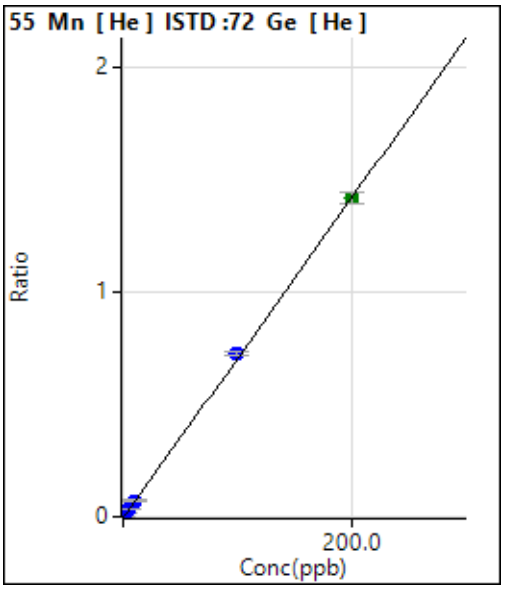
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2686.98	0.0026	P	8.2	
2	☐	2.000	1.934	4814.27	0.0047	P	3.2	-3.3
3	☐	5.000	4.696	7825.72	0.0077	P	6.7	-6.1
4	☐	10.000	10.570	14247.55	0.0141	P	0.5	5.7
5	☐	100.000	101.208	110789.82	0.1121	P	0.5	1.2
6	☐	200.000	199.376	212472.27	0.2183	P	3.2	-0.3

y = 0.0011 * x + 0.0026
R = 1.0000
DL = 0.5932 ppb
BEC = 2.425 ppb

Weight: <None>
Min Conc: <None>

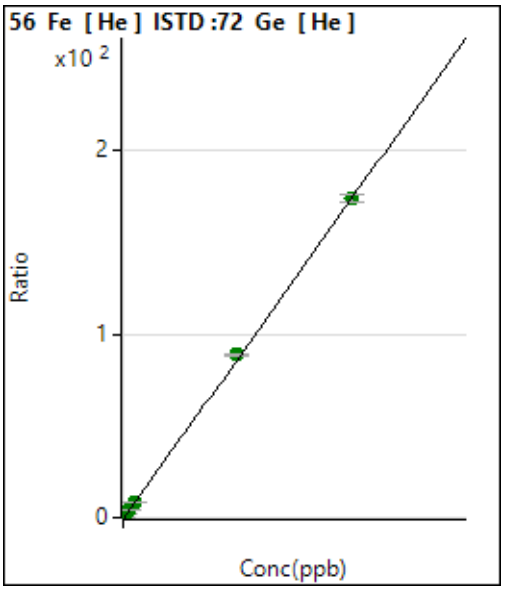


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.71	0.0008	P	21.6	
2	☐	2.000	1.969	15095.15	0.0148	P	4.3	-1.6
3	☐	5.000	4.654	34429.88	0.0339	P	0.8	-6.9
4	☐	10.000	10.065	73347.84	0.0724	P	2.3	0.6
5	☐	100.000	102.130	718660.02	0.7272	P	1.8	2.1
6	☐	200.000	198.941	1377896.85	1.4158	A	3.1	-0.5

y = 0.0071 * x + 7.7875E-004
R = 0.9999
DL = 0.07085 ppb
BEC = 0.1095 ppb

Weight: <None>
Min Conc: <None>

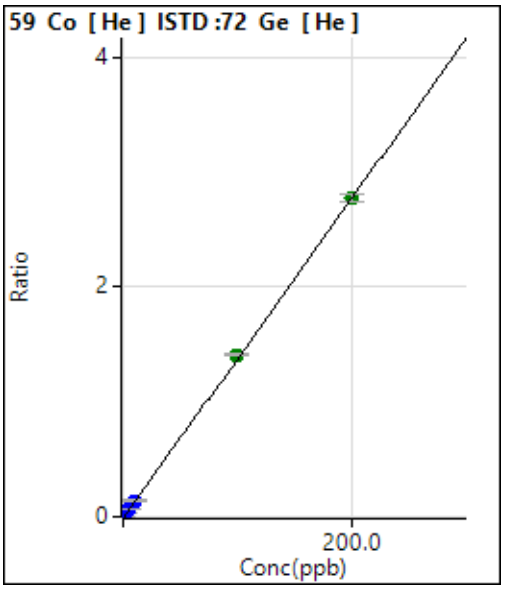
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15725.88	0.0154	P	2.0	
2	☐	200.000	193.738	1745375.60	1.7098	A	1.8	-3.1
3	☐	500.000	463.555	4134670.77	4.0696	A	3.4	-7.3
4	☐	1000.000	996.475	8848571.12	8.7306	A	1.8	-0.4
5	☐	10000.00	10179.44	87995328.69	89.0452	A	1.4	1.8
6	☐	20000.00	19911.42	169492937.4	174.161	A	2.7	-0.4

y = 0.0087 * x + 0.0154
R = 0.9999
DL = 0.1062 ppb
BEC = 1.755 ppb

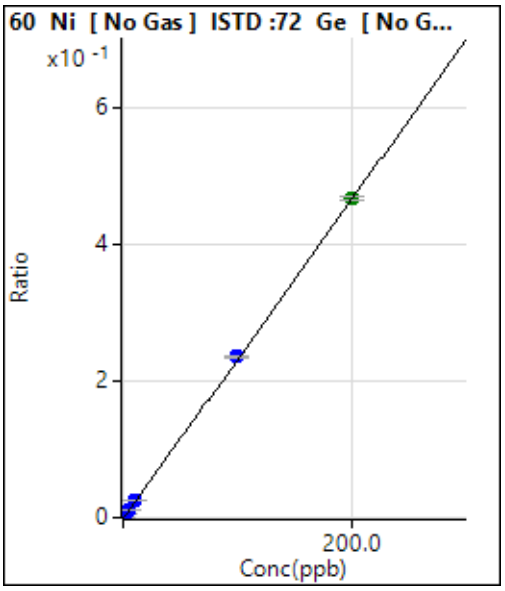
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	6.7	
2	☐	2.000	1.935	27958.63	0.0274	P	3.6	-3.3
3	☐	5.000	4.711	67066.13	0.0660	P	2.9	-5.8
4	☐	10.000	10.116	143133.87	0.1412	P	2.4	1.2
5	☐	100.000	101.294	1393368.26	1.4100	A	1.3	1.3
6	☐	200.000	199.355	2700154.85	2.7745	A	2.0	-0.3

y = 0.0139 * x + 4.6201E-004
R = 1.0000
DL = 0.006679 ppb
BEC = 0.0332 ppb

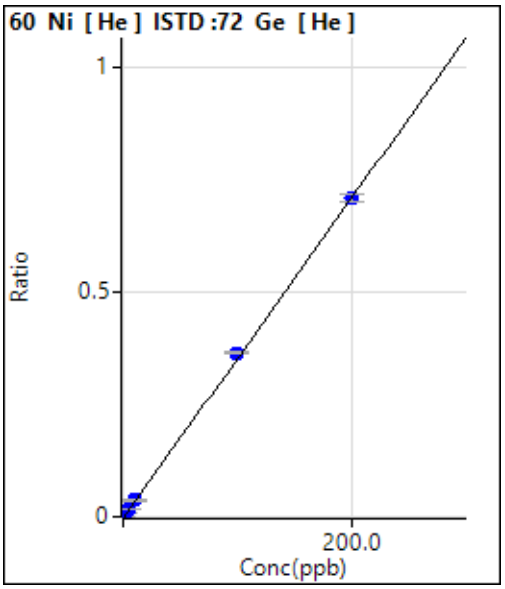
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1140.07	0.0003	P	12.1	
2	☐	2.000	2.089	18719.66	0.0052	P	4.2	4.5
3	☐	5.000	4.963	42488.93	0.0119	P	1.5	-0.7
4	☐	10.000	10.242	85568.15	0.0243	P	1.6	2.4
5	☐	100.000	100.481	813536.68	0.2354	P	2.1	0.5
6	☐	200.000	199.747	1566698.83	0.4677	A	1.4	-0.1

y = 0.0023 * x + 3.1434E-004
R = 1.0000
DL = 0.04884 ppb
BEC = 0.1343 ppb

Weight: <None>
Min Conc: <None>

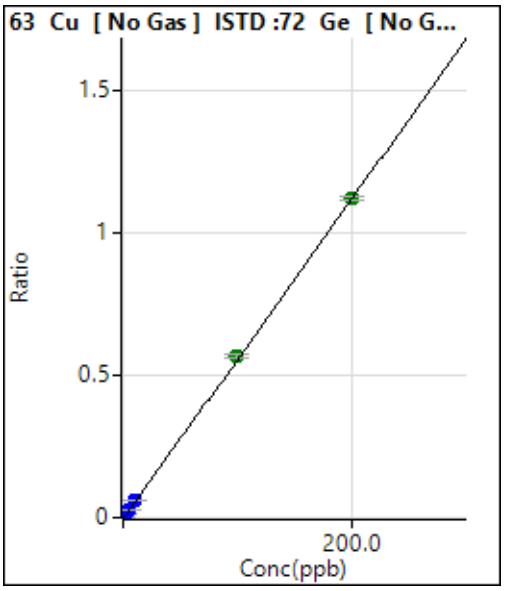


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0003	P	21.5	
2	☐	2.000	1.940	7388.77	0.0072	P	3.1	-3.0
3	☐	5.000	4.780	17651.59	0.0174	P	6.0	-4.4
4	☐	10.000	10.132	36963.30	0.0365	P	5.2	1.3
5	☐	100.000	101.993	359924.07	0.3642	P	1.1	2.0
6	☐	200.000	199.003	691304.39	0.7103	P	2.6	-0.5

y = 0.0036 * x + 3.1933E-004
R = 0.9999
DL = 0.05785 ppb
BEC = 0.0895 ppb

Weight: <None>
Min Conc: <None>

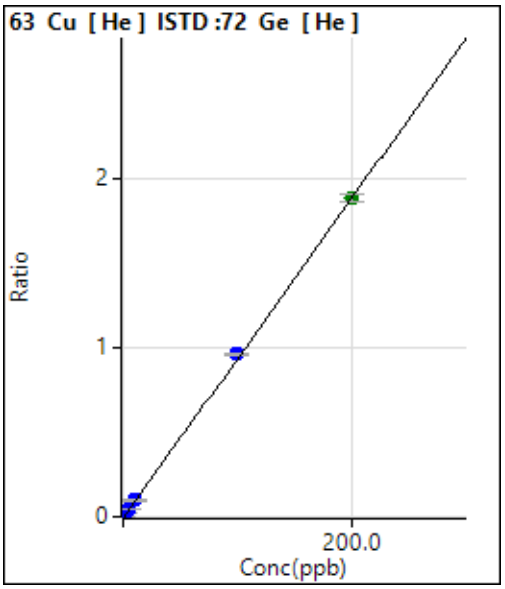
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.29	0.0007	P	7.0	
2	☐	2.000	2.079	44542.26	0.0124	P	4.3	3.9
3	☐	5.000	5.127	105069.14	0.0295	P	3.1	2.5
4	☐	10.000	10.392	208124.53	0.0591	P	1.4	3.9
5	☐	100.000	100.871	1959324.09	0.5670	A	1.9	0.9
6	☐	200.000	199.541	3754985.15	1.1210	A	1.6	-0.2

y = 0.0056 * x + 7.1180E-004
R = 1.0000
DL = 0.02647 ppb
BEC = 0.1268 ppb

Weight: <None>
Min Conc: <None>

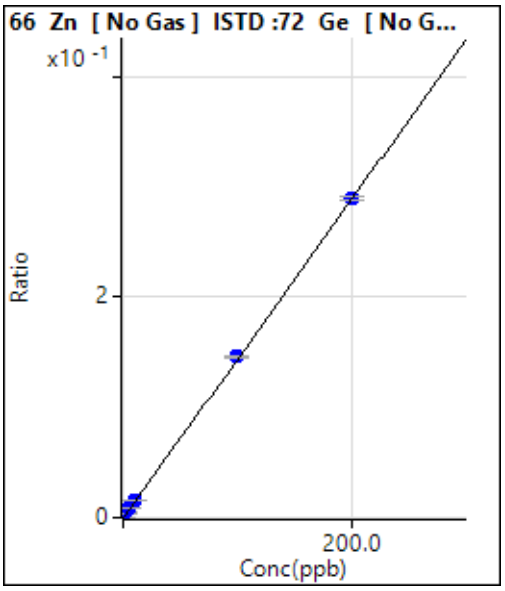


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0006	P	11.1	
2	☐	2.000	2.075	20655.78	0.0202	P	1.1	3.8
3	☐	5.000	4.764	46384.96	0.0457	P	3.5	-4.7
4	☐	10.000	10.175	98121.35	0.0968	P	1.4	1.8
5	☐	100.000	101.490	948807.85	0.9601	P	1.9	1.5
6	☐	200.000	199.252	1833855.39	1.8844	A	2.4	-0.4

y = 0.0095 * x + 6.1822E-004
R = 1.0000
DL = 0.02173 ppb
BEC = 0.06539 ppb

Weight: <None>
Min Conc: <None>

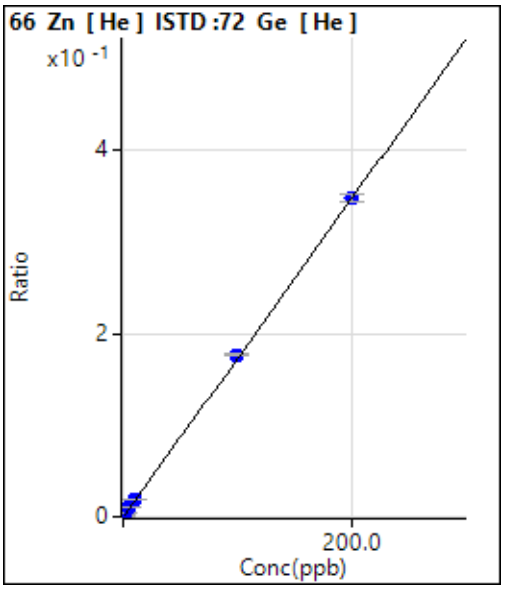
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2643.64	0.0007	P	3.0	
2	☐	2.000	2.593	16123.09	0.0045	P	7.0	29.7
3	☐	5.000	5.195	29385.03	0.0082	P	1.9	3.9
4	☐	10.000	10.221	54709.16	0.0155	P	2.4	2.2
5	☐	100.000	100.589	505658.04	0.1463	P	1.6	0.6
6	☐	200.000	199.684	970670.46	0.2898	P	1.7	-0.2

y = 0.0014 * x + 7.2926E-004
R = 1.0000
DL = 0.04504 ppb
BEC = 0.5038 ppb

Weight: <None>
Min Conc: <None>

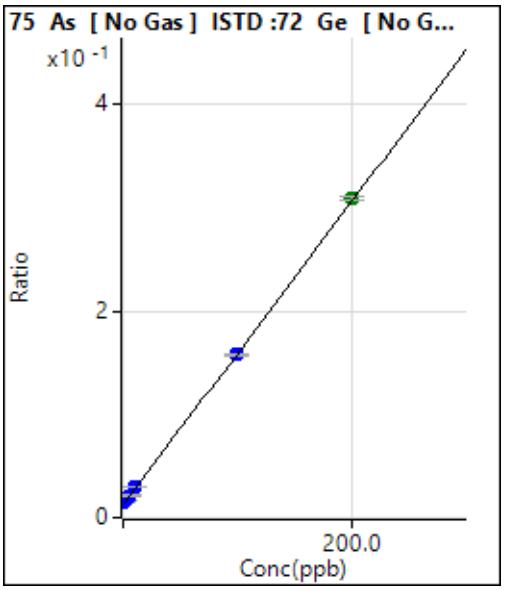


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0011	P	12.7	
2	☐	2.000	2.324	5207.73	0.0051	P	4.5	16.2
3	☐	5.000	5.027	9963.76	0.0098	P	2.6	0.5
4	☐	10.000	9.938	18599.57	0.0184	P	1.3	-0.6
5	☐	100.000	101.169	175068.72	0.1772	P	1.0	1.2
6	☐	200.000	199.415	338842.07	0.3482	P	2.1	-0.3

y = 0.0017 * x + 0.0011
R = 1.0000
DL = 0.2308 ppb
BEC = 0.6061 ppb

Weight: <None>
Min Conc: <None>

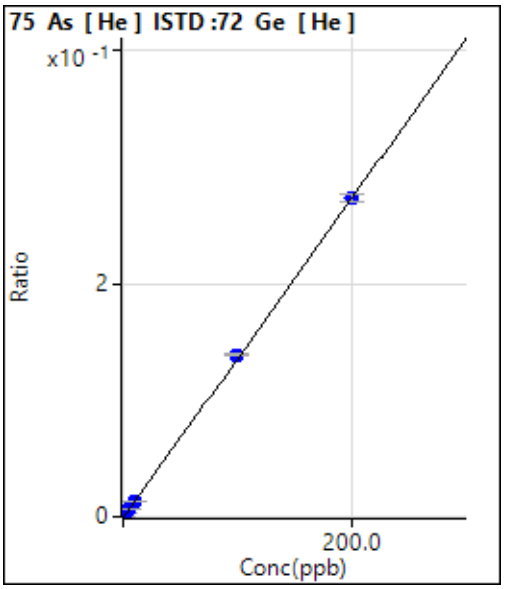
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	51447.16	0.0142	P	0.6	
2	☐	2.000	2.131	62315.82	0.0173	P	1.5	6.5
3	☐	5.000	4.885	76095.41	0.0214	P	3.2	-2.3
4	☐	10.000	10.130	102418.59	0.0291	P	1.2	1.3
5	☐	100.000	97.748	544819.98	0.1577	P	2.0	-2.3
6	☐	200.000	201.121	1036374.02	0.3094	A	1.2	0.6

y = 0.0015 * x + 0.0142
R = 0.9999
DL = 0.1756 ppb
BEC = 9.669 ppb

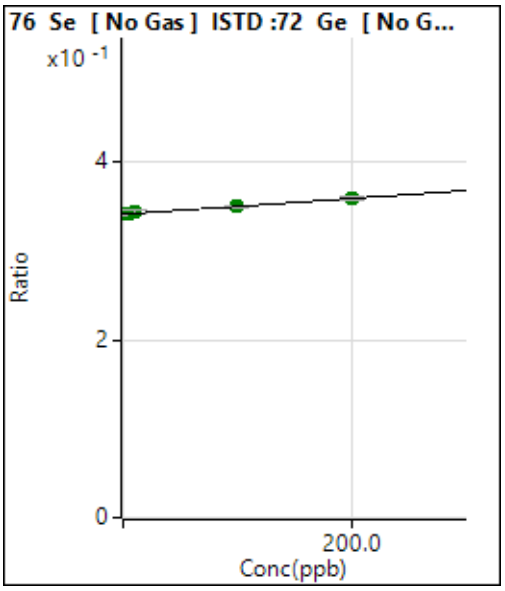
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	275.56	0.0003	P	9.7	
2	☐	2.000	1.951	3008.13	0.0029	P	1.0	-2.4
3	☐	5.000	4.533	6592.74	0.0065	P	2.9	-9.3
4	☐	10.000	9.887	14022.77	0.0138	P	1.3	-1.1
5	☐	100.000	101.339	137682.54	0.1393	P	1.5	1.3
6	☐	200.000	199.349	266474.03	0.2738	P	2.3	-0.3

y = 0.0014 * x + 2.6901E-004
R = 1.0000
DL = 0.0568 ppb
BEC = 0.196 ppb

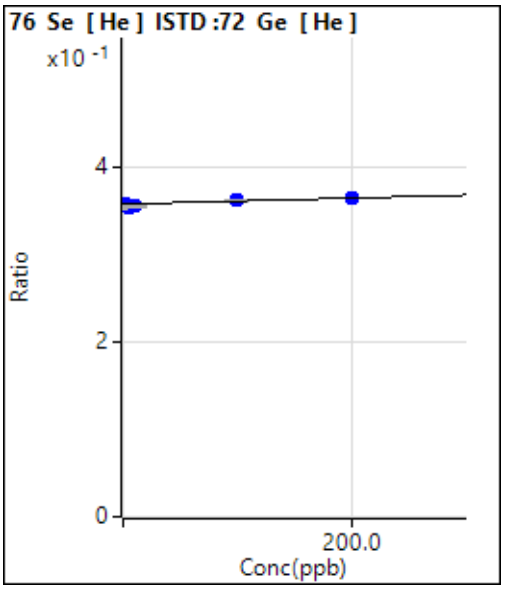
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1237660.55	0.3414	A	0.5	
2	☐	2.000	-1.887	1227906.99	0.3412	A	0.9	-194.3
3	☐	5.000	-1.017	1215855.47	0.3413	A	0.9	-120.3
4	☐	10.000	35.309	1214376.88	0.3446	A	0.9	253.1
5	☐	100.000	96.003	1209468.21	0.3500	A	0.3	-4.0
6	☐	200.000	200.922	1203818.55	0.3594	A	0.7	0.5

y = 8.9525E-005 * x + 0.3414
R = 0.9897
DL = 55.62 ppb
BEC = 3814 ppb

Weight: <None>
Min Conc: <None>

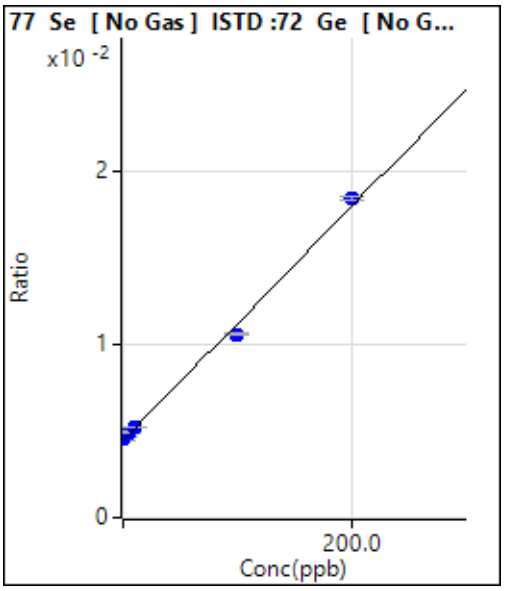


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366192.12	0.3575	P	1.4	
2	☐	2.000	3.643	365071.79	0.3576	P	0.5	82.2
3	☐	5.000	-134.215	358527.12	0.3529	P	0.9	-2784.3
4	☐	10.000	-74.147	359722.92	0.3549	P	0.4	-841.5
5	☐	100.000	112.851	357152.25	0.3614	P	0.7	12.9
6	☐	200.000	201.246	354728.94	0.3645	P	0.2	0.6

y = 3.4707E-005 * x + 0.3575
R = 0.8878
DL = 421.7 ppb
BEC = 1.03E+04 ppb

Weight: <None>
Min Conc: <None>

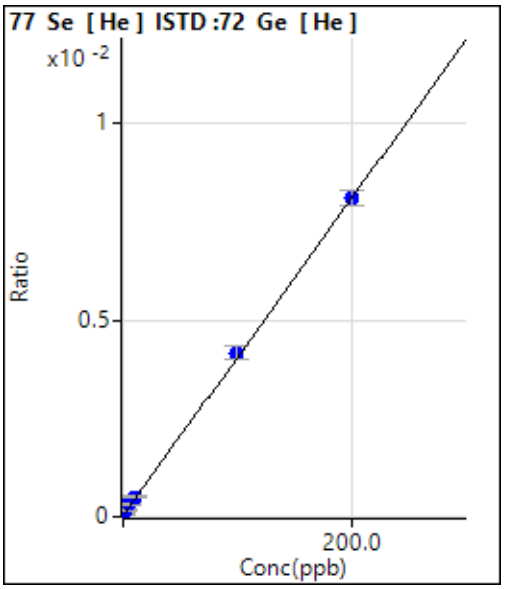
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16567.02	0.0046	P	3.3	
2	☐	2.000	3.590	17307.97	0.0048	P	5.7	79.5
3	☐	5.000	5.083	17498.25	0.0049	P	2.2	1.7
4	☐	10.000	9.865	18449.49	0.0052	P	1.1	-1.4
5	☐	100.000	88.905	36515.87	0.0106	P	1.3	-11.1
6	☐	200.000	205.536	61753.39	0.0184	P	1.6	2.8

y = 6.7460E-005 * x + 0.0046
R = 0.9978
DL = 6.633 ppb
BEC = 67.74 ppb

Weight: <None>
Min Conc: <None>

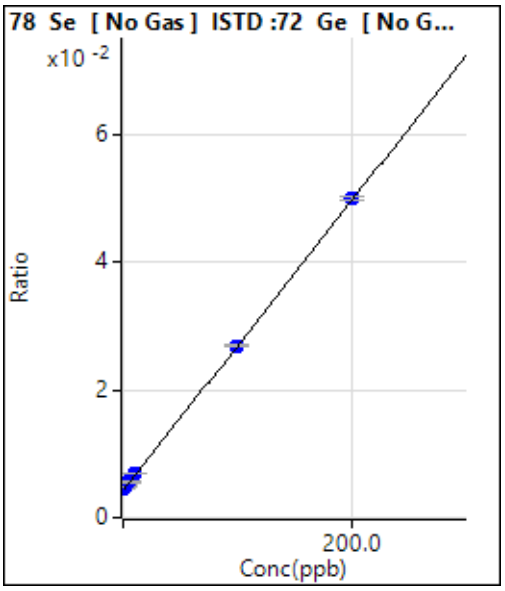


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	40.3	
2	☐	2.000	1.955	156.67	0.0002	P	32.3	-2.2
3	☐	5.000	6.357	336.68	0.0003	P	11.5	27.1
4	☐	10.000	10.697	513.35	0.0005	P	7.0	7.0
5	☐	100.000	101.492	4120.70	0.0042	P	7.8	1.5
6	☐	200.000	199.186	7892.41	0.0081	P	4.7	-0.4

y = 4.0337E-005 * x + 7.4969E-005
R = 0.9999
DL = 2.248 ppb
BEC = 1.859 ppb

Weight: <None>
Min Conc: <None>

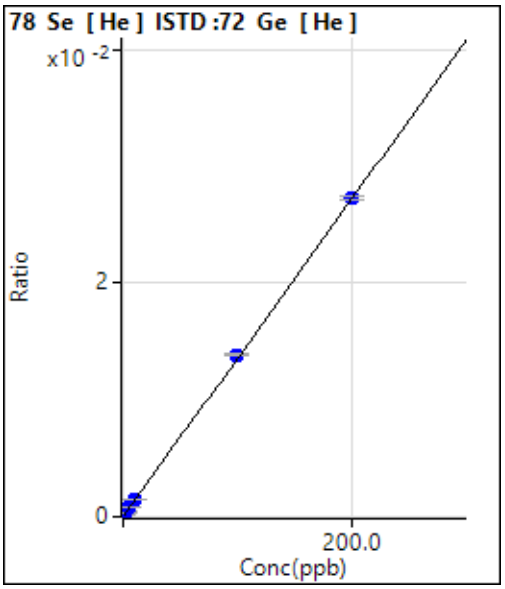
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16319.97	0.0045	P	3.2	
2	☐	2.000	1.964	17805.22	0.0049	P	2.2	-1.8
3	☐	5.000	4.774	19898.11	0.0056	P	2.7	-4.5
4	☐	10.000	10.228	24051.54	0.0068	P	1.1	2.3
5	☐	100.000	98.925	93174.56	0.0270	P	2.1	-1.1
6	☐	200.000	200.532	167600.48	0.0500	P	1.4	0.3

y = 2.2705E-004 * x + 0.0045
R = 1.0000
DL = 1.893 ppb
BEC = 19.83 ppb

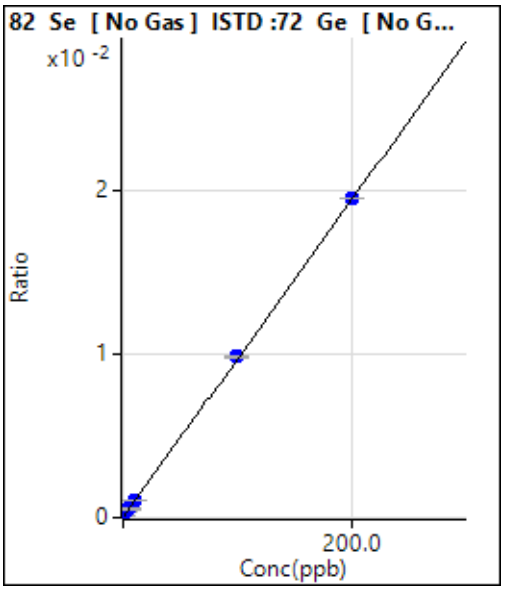
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	9.6	
2	☐	2.000	1.909	418.01	0.0004	P	5.2	-4.5
3	☐	5.000	4.559	782.02	0.0008	P	5.3	-8.8
4	☐	10.000	9.724	1492.09	0.0015	P	2.1	-2.8
5	☐	100.000	100.609	13671.52	0.0138	P	1.3	0.6
6	☐	200.000	199.721	26583.17	0.0273	P	1.7	-0.1

y = 1.3602E-004 * x + 1.4967E-004
R = 1.0000
DL = 0.3154 ppb
BEC = 1.1 ppb

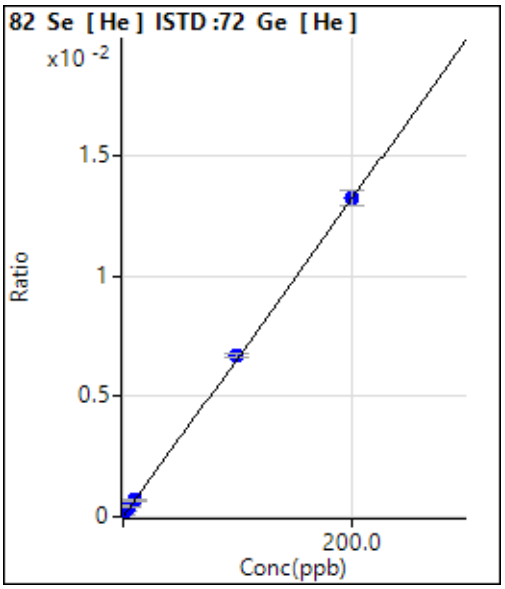
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	456.68	0.0001	P	5.8	
2	☐	2.000	1.884	1110.07	0.0003	P	8.5	-5.8
3	☐	5.000	4.376	1956.84	0.0005	P	16.8	-12.5
4	☐	10.000	9.841	3800.62	0.0011	P	3.4	-1.6
5	☐	100.000	100.091	33909.42	0.0098	P	1.1	0.1
6	☐	200.000	199.979	65250.04	0.0195	P	0.5	0.0

y = 9.6778E-005 * x + 1.2599E-004
R = 1.0000
DL = 0.228 ppb
BEC = 1.302 ppb

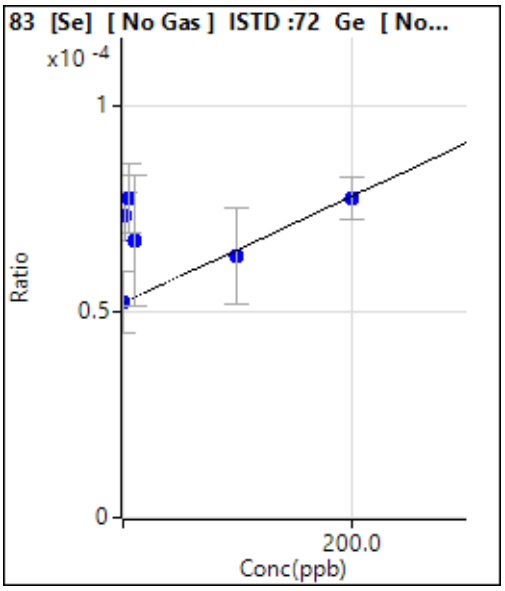
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	48.3	
2	☐	2.000	2.876	256.67	0.0003	P	20.3	43.8
3	☐	5.000	5.325	420.01	0.0004	P	14.6	6.5
4	☐	10.000	9.478	696.70	0.0007	P	6.5	-5.2
5	☐	100.000	100.664	6628.38	0.0067	P	2.2	0.7
6	☐	200.000	199.677	12889.65	0.0132	P	4.7	-0.2

y = 6.6026E-005 * x + 6.1791E-005
R = 1.0000
DL = 1.355 ppb
BEC = 0.9359 ppb

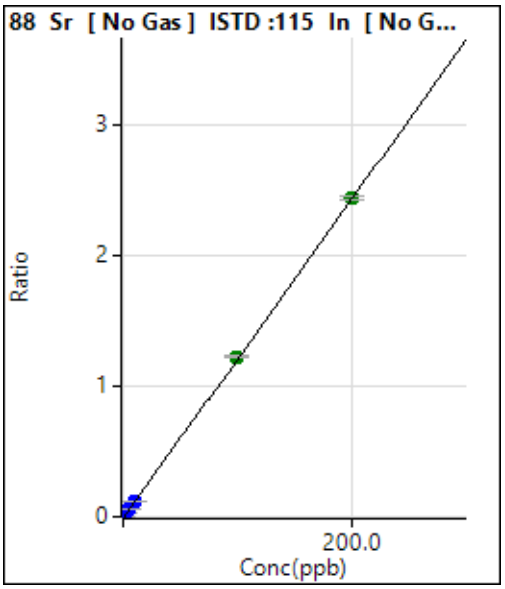
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0001	P	29.2	
2	☐	2.000	160.998	263.34	0.0001	P	15.7	7949.9
3	☐	5.000	195.136	276.67	0.0001	P	21.8	3802.7
4	☐	10.000	113.850	236.67	0.0001	P	47.4	1038.5
5	☐	100.000	87.172	220.01	0.0001	P	36.3	-12.8
6	☐	200.000	194.878	260.01	0.0001	P	13.6	-2.6

y = 1.2939E-007 * x + 5.2389E-005
R = 0.3384
DL = 354.2 ppb
BEC = 404.9 ppb

Weight: <None>
Min Conc: <None>

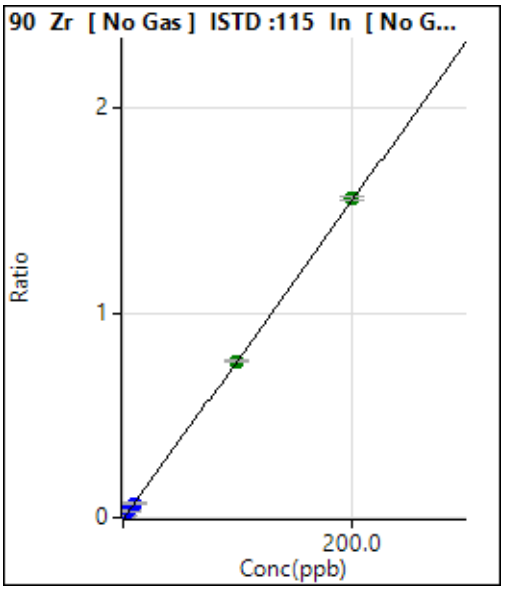


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2720.33	0.0006	P	1.3	
2	☐	2.000	1.918	115680.83	0.0240	P	3.6	-4.1
3	☐	5.000	4.674	274822.35	0.0577	P	2.7	-6.5
4	☐	10.000	9.606	558292.01	0.1179	P	1.2	-3.9
5	☐	100.000	100.334	5622582.41	1.2266	A	1.6	0.3
6	☐	200.000	199.862	10854979.42	2.4427	A	1.6	-0.1

y = 0.0122 * x + 5.6362E-004
R = 1.0000
DL = 0.001788 ppb
BEC = 0.04613 ppb

Weight: <None>
Min Conc: <None>

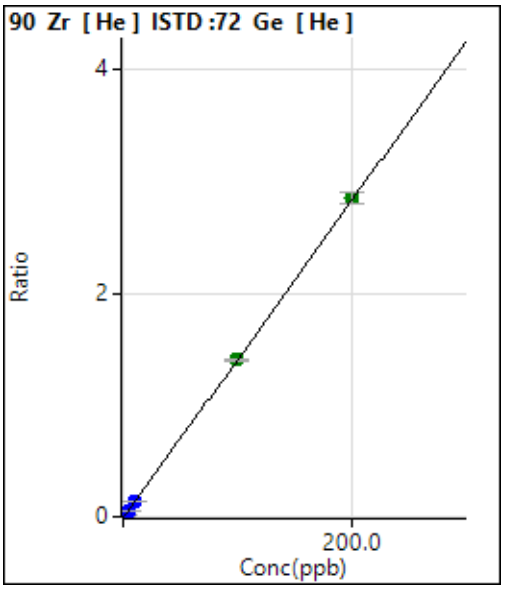
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1500.12	0.0003	P	4.5	
2	☐	2.000	1.579	60605.85	0.0126	P	3.5	-21.1
3	☐	5.000	4.224	157845.84	0.0331	P	1.6	-15.5
4	☐	10.000	9.031	333555.66	0.0705	P	1.3	-9.7
5	☐	100.000	98.493	3508521.30	0.7654	A	1.6	-1.5
6	☐	200.000	200.825	6933572.40	1.5603	A	1.7	0.4

y = 0.0078 * x + 3.1077E-004
R = 1.0000
DL = 0.005422 ppb
BEC = 0.04001 ppb

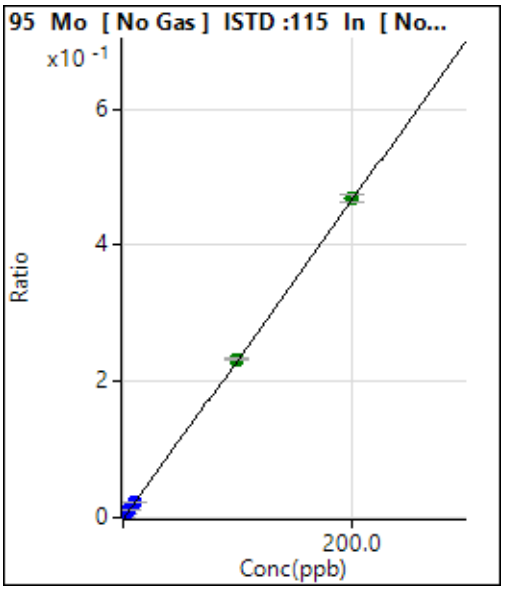
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1653.47	0.0016	P	2.9	
2	☐	2.000	1.616	25073.49	0.0246	P	0.4	-19.2
3	☐	5.000	4.022	59668.60	0.0587	P	3.2	-19.6
4	☐	10.000	9.094	132514.31	0.1308	P	0.9	-9.1
5	☐	100.000	98.692	1386536.54	1.4031	A	1.6	-1.3
6	☐	200.000	200.727	2775580.06	2.8520	A	3.3	0.4

y = 0.0142 * x + 0.0016
R = 1.0000
DL = 0.00979 ppb
BEC = 0.1137 ppb

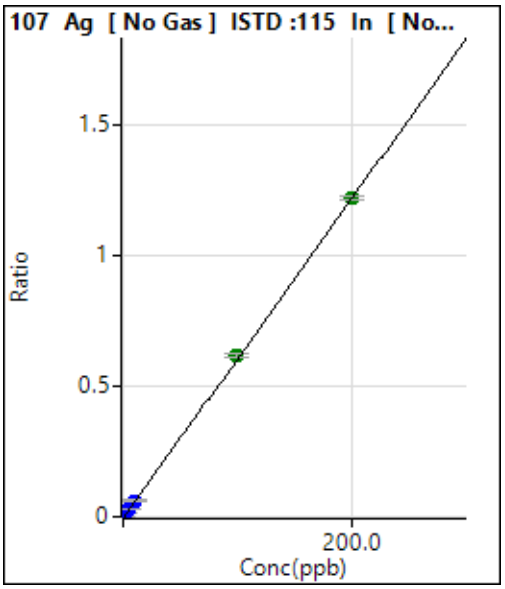
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0000	P	14.4	
2	☐	2.000	1.883	21400.67	0.0044	P	5.6	-5.8
3	☐	5.000	4.740	52997.70	0.0111	P	3.2	-5.2
4	☐	10.000	9.766	108289.74	0.0229	P	2.2	-2.3
5	☐	100.000	99.145	1063037.25	0.2319	A	1.5	-0.9
6	☐	200.000	200.447	2083280.91	0.4688	A	2.0	0.2

y = 0.0023 * x + 3.7283E-005
R = 1.0000
DL = 0.006897 ppb
BEC = 0.01594 ppb

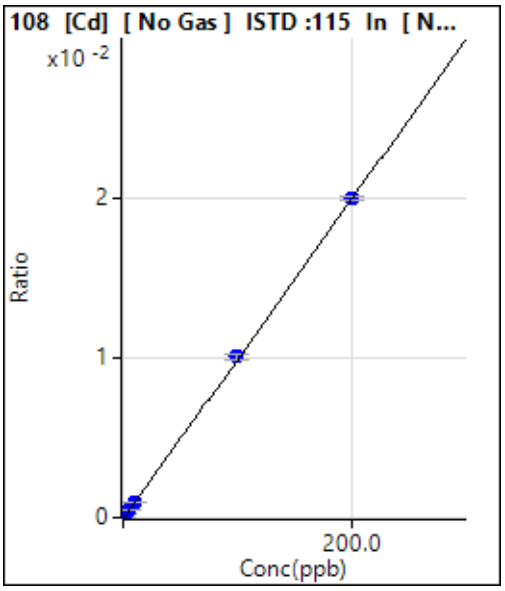
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	563.36	0.0001	P	19.7	
2	☐	2.000	1.982	59110.94	0.0123	P	5.8	-0.9
3	☐	5.000	4.989	146313.89	0.0307	P	2.5	-0.2
4	☐	10.000	10.156	295294.82	0.0624	P	2.2	1.6
5	☐	100.000	100.952	2837639.54	0.6190	A	2.0	1.0
6	☐	200.000	199.517	5436208.46	1.2233	A	1.6	-0.2

y = 0.0061 * x + 1.1667E-004
R = 1.0000
DL = 0.01124 ppb
BEC = 0.01903 ppb

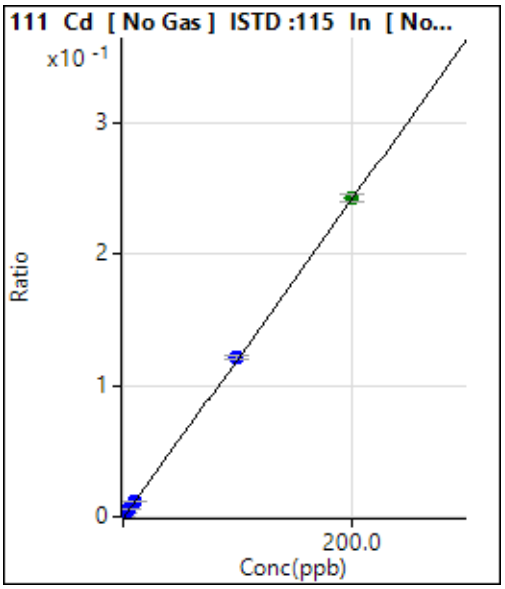
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.8	
2	☐	2.000	1.973	966.72	0.0002	P	10.2	-1.4
3	☐	5.000	4.587	2200.23	0.0005	P	7.8	-8.3
4	☐	10.000	9.878	4687.55	0.0010	P	4.8	-1.2
5	☐	100.000	100.823	46183.27	0.0101	P	3.3	0.8
6	☐	200.000	199.605	88623.15	0.0199	P	1.7	-0.2

y = 9.9895E-005 * x + 3.4585E-006
R = 1.0000
DL = 0.09532 ppb
BEC = 0.03462 ppb

Weight: <None>
Min Conc: <None>

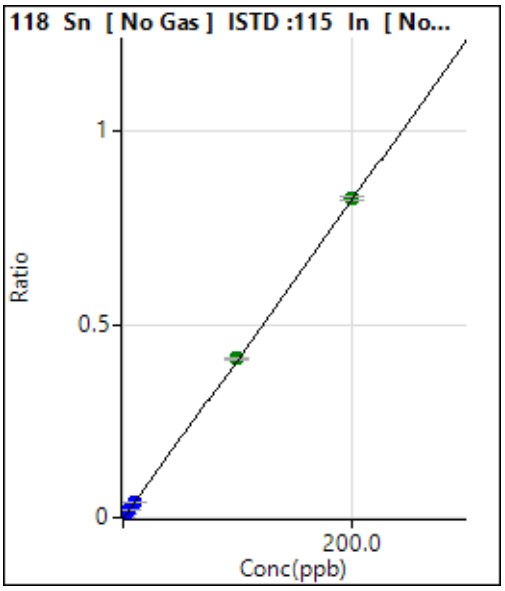


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	1767.2	
2	☐	2.000	1.989	11652.29	0.0024	P	7.3	-0.5
3	☐	5.000	4.895	28351.58	0.0059	P	3.0	-2.1
4	☐	10.000	9.976	57393.26	0.0121	P	1.1	-0.2
5	☐	100.000	99.788	555905.83	0.1213	P	1.9	-0.2
6	☐	200.000	200.110	1080698.31	0.2432	A	2.2	0.1

y = 0.0012 * x + 4.2489E-007
R = 1.0000
DL = 0.01854 ppb
BEC = 0.0003496 ppb

Weight: <None>
Min Conc: <None>

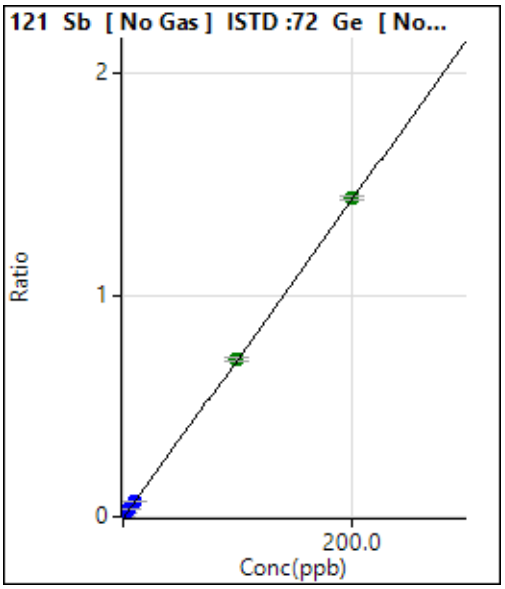
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5994.83	0.0012	P	4.0	
2	☐	2.000	1.988	45454.68	0.0094	P	2.0	-0.6
3	☐	5.000	4.816	100455.34	0.0211	P	3.8	-3.7
4	☐	10.000	9.731	195611.74	0.0413	P	2.3	-2.7
5	☐	100.000	99.480	1883908.35	0.4110	A	1.7	-0.5
6	☐	200.000	200.278	3671235.88	0.8261	A	1.5	0.1

y = 0.0041 * x + 0.0012
R = 1.0000
DL = 0.03613 ppb
BEC = 0.3015 ppb

Weight: <None>
Min Conc: <None>

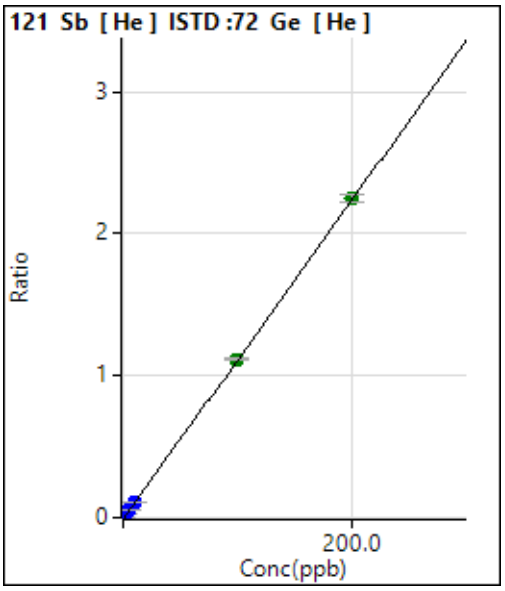


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	630.03	0.0002	P	21.1	
2	☐	2.000	1.992	52115.90	0.0145	P	3.5	-0.4
3	☐	5.000	4.865	125139.38	0.0351	P	2.2	-2.7
4	☐	10.000	9.981	253345.43	0.0719	P	2.1	-0.2
5	☐	100.000	99.149	2462252.41	0.7125	A	1.9	-0.9
6	☐	200.000	200.430	4824383.26	1.4402	A	1.0	0.2

y = 0.0072 * x + 1.7372E-004
R = 1.0000
DL = 0.01532 ppb
BEC = 0.02418 ppb

Weight: <None>
Min Conc: <None>

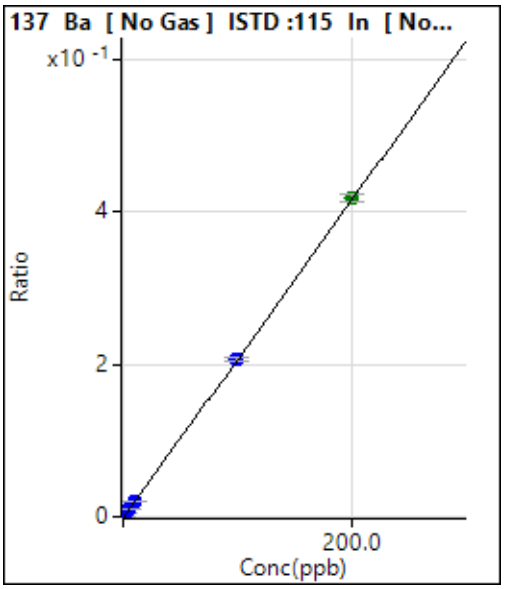
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	5.2	
2	☐	2.000	1.890	22001.94	0.0216	P	2.1	-5.5
3	☐	5.000	4.610	52915.74	0.0521	P	5.0	-7.8
4	☐	10.000	9.876	112712.84	0.1112	P	1.2	-1.2
5	☐	100.000	99.363	1102755.27	1.1159	A	1.4	-0.6
6	☐	200.000	200.336	2189283.67	2.2496	A	2.8	0.2

y = 0.0112 * x + 3.2553E-004
R = 1.0000
DL = 0.004501 ppb
BEC = 0.02899 ppb

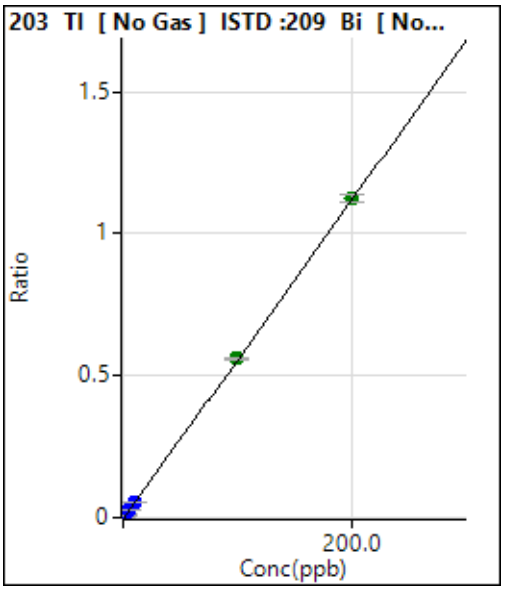
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	750.04	0.0002	P	8.0	
2	☐	2.000	2.225	23080.65	0.0048	P	3.5	11.3
3	☐	5.000	4.883	49202.37	0.0103	P	1.8	-2.3
4	☐	10.000	9.822	97567.53	0.0206	P	2.7	-1.8
5	☐	100.000	99.103	946776.08	0.2065	P	2.4	-0.9
6	☐	200.000	200.458	1855807.79	0.4176	A	2.3	0.2

y = 0.0021 * x + 1.5540E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.07462 ppb

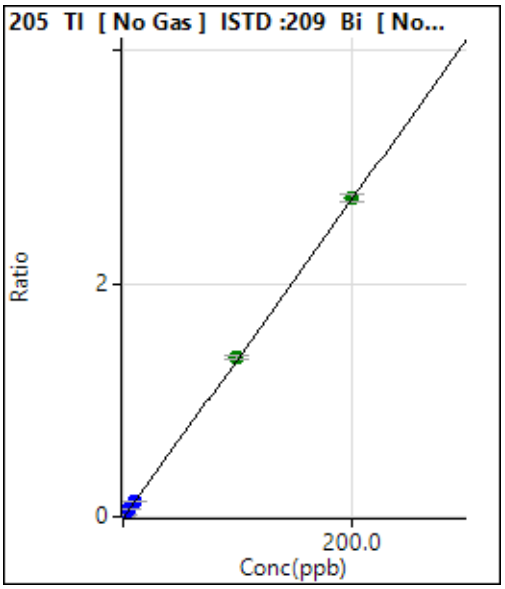
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	966.73	0.0002	P	15.3	
2	☐	2.000	1.759	50916.07	0.0101	P	2.4	-12.0
3	☐	5.000	4.852	137122.61	0.0275	P	0.8	-3.0
4	☐	10.000	9.607	270114.98	0.0542	P	1.3	-3.9
5	☐	100.000	99.642	2698179.02	0.5600	A	2.0	-0.4
6	☐	200.000	200.205	5248397.11	1.1250	A	2.0	0.1

y = 0.0056 * x + 1.9170E-004
R = 1.0000
DL = 0.01567 ppb
BEC = 0.03412 ppb

Weight: <None>
Min Conc: <None>

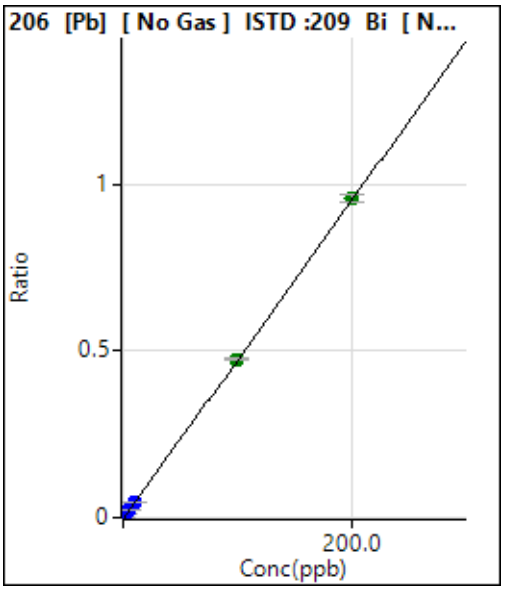


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2420.28	0.0005	P	10.6	
2	☐	2.000	1.718	121094.16	0.0240	P	2.2	-14.1
3	☐	5.000	4.694	322862.55	0.0646	P	2.3	-6.1
4	☐	10.000	9.378	641550.62	0.1287	P	1.4	-6.2
5	☐	100.000	99.843	6577152.19	1.3651	A	1.9	-0.2
6	☐	200.000	200.120	12762014.39	2.7357	A	2.3	0.1

y = 0.0137 * x + 4.8003E-004
R = 1.0000
DL = 0.01114 ppb
BEC = 0.03512 ppb

Weight: <None>
Min Conc: <None>

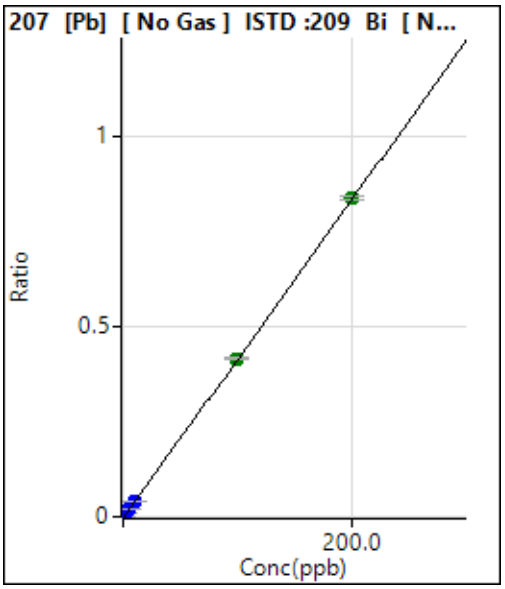
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.10	0.0003	P	12.9	
2	☐	2.000	1.931	48008.39	0.0095	P	2.5	-3.4
3	☐	5.000	4.813	116313.41	0.0233	P	2.4	-3.7
4	☐	10.000	9.862	236588.30	0.0474	P	1.1	-1.4
5	☐	100.000	99.202	2287999.70	0.4749	A	1.1	-0.8
6	☐	200.000	200.411	4474287.64	0.9591	A	2.4	0.2

y = 0.0048 * x + 2.5998E-004
R = 1.0000
DL = 0.02109 ppb
BEC = 0.05434 ppb

Weight: <None>
Min Conc: <None>

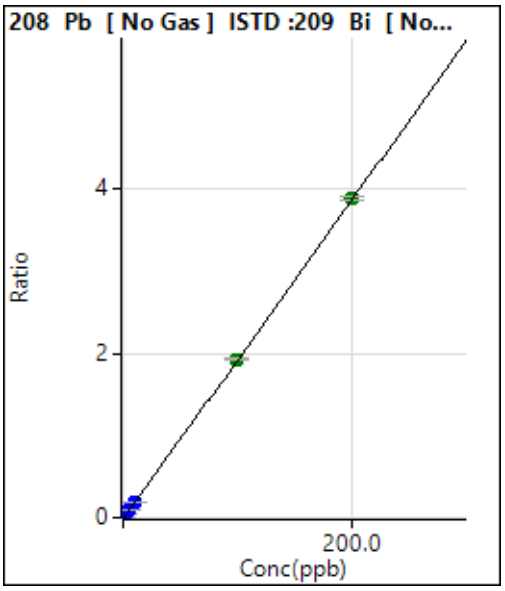


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.40	0.0002	P	18.4	
2	☐	2.000	1.990	43057.33	0.0085	P	3.7	-0.5
3	☐	5.000	4.830	101819.59	0.0204	P	2.3	-3.4
4	☐	10.000	9.895	207160.69	0.0415	P	0.8	-1.1
5	☐	100.000	99.405	2001749.35	0.4155	A	1.1	-0.6
6	☐	200.000	200.307	3904667.86	0.8370	A	1.4	0.2

y = 0.0042 * x + 2.0889E-004
R = 1.0000
DL = 0.02763 ppb
BEC = 0.05 ppb

Weight: <None>
Min Conc: <None>

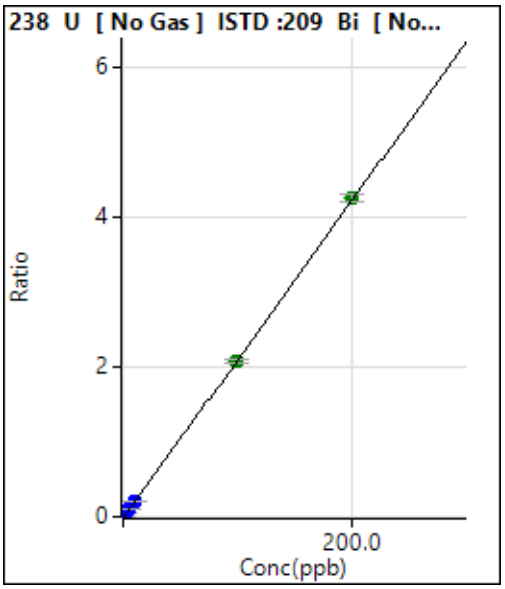
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4887.13	0.0010	P	5.0	
2	☐	2.000	1.935	194683.53	0.0385	P	2.2	-3.2
3	☐	5.000	4.764	466644.01	0.0934	P	2.5	-4.7
4	☐	10.000	9.801	953267.28	0.1912	P	1.1	-2.0
5	☐	100.000	99.403	9298822.52	1.9300	A	1.5	-0.6
6	☐	200.000	200.315	18139288.68	3.8883	A	1.8	0.2

y = 0.0194 * x + 9.6954E-004
R = 1.0000
DL = 0.007453 ppb
BEC = 0.04996 ppb

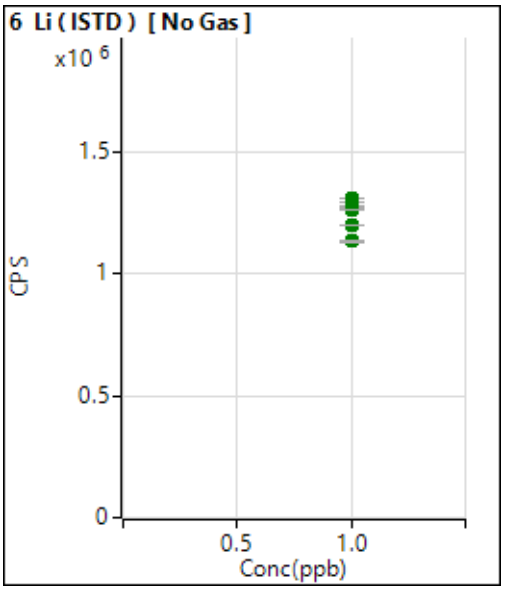
Weight: <None>
Min Conc: <None>



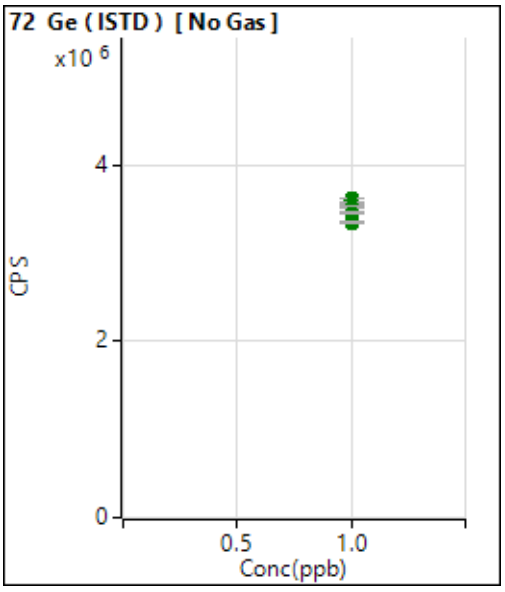
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3043.77	0.0006	P	2.2	
2	☐	2.000	1.849	201086.55	0.0398	P	2.5	-7.6
3	☐	5.000	4.635	493778.96	0.0989	P	1.9	-7.3
4	☐	10.000	9.453	1002347.72	0.2010	P	2.1	-5.5
5	☐	100.000	98.280	10041080.06	2.0841	A	1.9	-1.7
6	☐	200.000	200.898	19870878.87	4.2595	A	2.0	0.4

y = 0.0212 * x + 6.0384E-004
R = 1.0000
DL = 0.001907 ppb
BEC = 0.02848 ppb

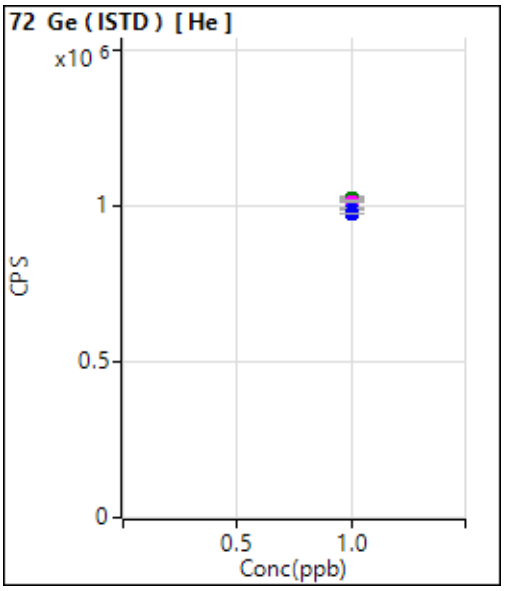
Weight: <None>
Min Conc: <None>



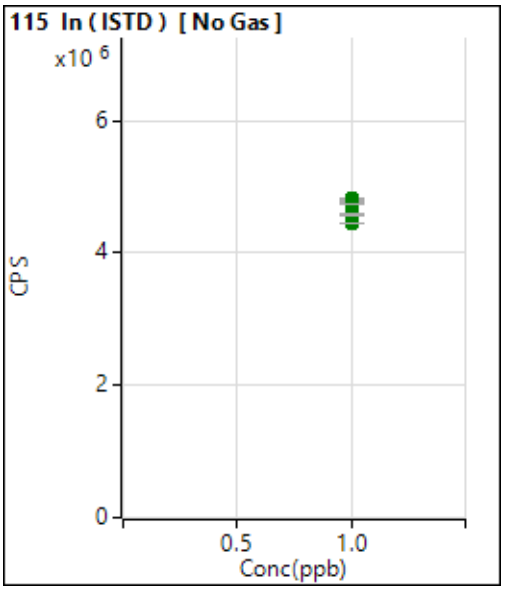
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1311505.51		A	0.4	
2	☐	1.000		1296398.91		A	0.1	
3	☐	1.000		1278167.75		A	0.4	
4	☐	1.000		1261653.96		A	0.2	
5	☐	1.000		1199454.34		A	0.2	
6	☐	1.000		1134408.06		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3625271.30		A	0.6	
2	☐	1.000		3598500.99		A	1.0	
3	☐	1.000		3562325.88		A	0.5	
4	☐	1.000		3524402.97		A	0.3	
5	☐	1.000		3455665.26		A	0.5	
6	☐	1.000		3349657.03		A	0.5	

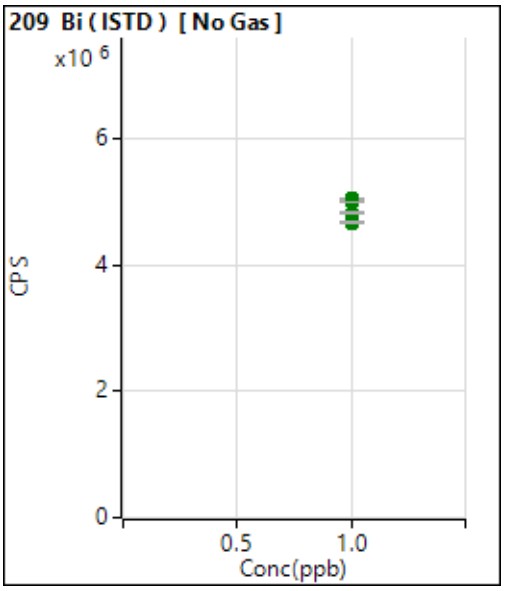


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1024230.63		A	0.8	
2	☐	1.000		1020789.39		M	1.2	
3	☐	1.000		1016078.66		A	0.7	
4	☐	1.000		1013447.93		M	0.6	
5	☐	1.000		988164.15		P	0.5	
6	☐	1.000		973176.52		P	0.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4826623.82		A	0.3	
2	☐	1.000		4819854.81		A	0.6	
3	☐	1.000		4765231.99		A	0.2	
4	☐	1.000		4733707.72		A	0.3	
5	☐	1.000		4584168.55		A	0.3	
6	☐	1.000		4443870.86		A	0.1	

Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5040995.86		A	0.4	
2	☐	1.000		5052988.15		A	0.5	
3	☐	1.000		4994818.26		A	0.3	
4	☐	1.000		4986532.84		A	0.2	
5	☐	1.000		4817898.16		A	0.5	
6	☐	1.000		4665364.62		A	0.7	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:42:15-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	73766	0.00
Be	9	1	No Gas	152	1.25
V	51	2	He	6458	0.04
Cr	52	2	He	8549	0.02
Fe	56	2	He	15726	0.02
Se	78	2	He	153	6.44
As	75	2	He	276	3.55
Ca	44	2	He	863	1.73
Na	23	2	He	95800	0.00
Mg	24	2	He	1183	0.99
K	39	2	He	96274	0.00
Mn	55	2	He	797	2.62
Co	59	2	He	473	1.57
Ni	60	2	He	327	6.38
Cu	63	2	He	633	1.80
Zn	66	2	He	1080	1.12
Al	27	2	He	1503	1.07
B	11	1	No Gas	18711	0.00
Al	27	1	No Gas	59948	0.00
Si	28	1	No Gas	409186	0.00
Ag	107	1	No Gas	563	3.54
Cd	111	1	No Gas	2	80860.30
Sr	88	1	No Gas	2720	0.04
Mo	95	1	No Gas	180	8.17
Sn	118	1	No Gas	5995	0.07
Sb	121	1	No Gas	630	3.41
Ba	137	1	No Gas	750	1.07
Tl	205	1	No Gas	2420	0.45
Tl	203	1	No Gas	967	1.62
Pb	208	1	No Gas	4887	0.10
U	238	1	No Gas	3044	0.06
Ca	43	2	He	47	115.56
Sb	121	2	He	333	1.37
Ti	47	2	He	7	1299.04
Cu	63	1	No Gas	2580	0.26

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1311506	0.45
Ge	72	2	He	1024231	0.83
Ge	72	1	No Gas	3625271	0.57
In	115	1	No Gas	4826624	0.32

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	5040996	0.42

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:44:58-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	9258	0.05
V	51	2	He	21895	0.01
Cr	52	2	He	25621	0.00
Fe	56	2	He	1745376	0.00
Se	78	2	He	418	1.43
As	75	2	He	3008	0.06
Ca	44	2	He	11672	0.03
Na	23	2	He	353014	0.00
Mg	24	2	He	163017	0.00
K	39	2	He	293451	0.00
Mn	55	2	He	15095	0.04
Co	59	2	He	27959	0.01
Ni	60	2	He	7389	0.03
Cu	63	2	He	20656	0.01
Zn	66	2	He	5208	0.11
Al	27	2	He	3244	0.30
B	11	1	No Gas	44891	0.00
Al	27	1	No Gas	130487	0.00
Si	28	1	No Gas	531313	0.00
Ag	107	1	No Gas	59111	0.01
Cd	111	1	No Gas	11652	0.06
Sr	88	1	No Gas	115681	0.00
Mo	95	1	No Gas	21401	0.02
Sn	118	1	No Gas	45455	0.00
Sb	121	1	No Gas	52116	0.01
Ba	137	1	No Gas	23081	0.01
Tl	205	1	No Gas	121094	0.00
Tl	203	1	No Gas	50916	0.01
Pb	208	1	No Gas	194684	0.00
U	238	1	No Gas	201087	0.00
Ca	43	2	He	670	1.02
Sb	121	2	He	22002	0.01
Cu	63	1	No Gas	44542	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1296399	0.10	1311506	98.85	70	120	
Ge	72	2	He	1020789	1.19	1024231	99.66	70	120	
Ge	72	1	No Gas	3598501	1.00	3625271	99.26	70	120	

Calibration Standard Report

In	115	1	No Gas	4819855	0.59	4826624	99.86	70	120	
Bi	209	1	No Gas	5052988	0.47	5040996	100.24	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:47:39-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	22374	0.02
V	51	2	He	43310	0.01
Cr	52	2	He	51335	0.01
Fe	56	2	He	4134671	0.00
Se	78	2	He	782	0.62
As	75	2	He	6593	0.04
Ca	44	2	He	25560	0.01
Na	23	2	He	725631	0.00
Mg	24	2	He	393955	0.00
K	39	2	He	571831	0.00
Mn	55	2	He	34430	0.00
Co	59	2	He	67066	0.00
Ni	60	2	He	17652	0.03
Cu	63	2	He	46385	0.01
Zn	66	2	He	9964	0.03
Al	27	2	He	4071	0.11
B	11	1	No Gas	79278	0.00
Al	27	1	No Gas	162172	0.00
Si	28	1	No Gas	675400	0.00
Ag	107	1	No Gas	146314	0.00
Cd	111	1	No Gas	28352	0.01
Sr	88	1	No Gas	274822	0.00
Mo	95	1	No Gas	52998	0.01
Sn	118	1	No Gas	100455	0.00
Sb	121	1	No Gas	125139	0.00
Ba	137	1	No Gas	49202	0.00
Tl	205	1	No Gas	322863	0.00
Tl	203	1	No Gas	137123	0.00
Pb	208	1	No Gas	466644	0.00
U	238	1	No Gas	493779	0.00
Ca	43	2	He	1420	0.69
Sb	121	2	He	52916	0.01
Cu	63	1	No Gas	105069	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1278168	0.43	1311506	97.46	70	120	
Ge	72	2	He	1016079	0.65	1024231	99.20	70	120	
Ge	72	1	No Gas	3562326	0.47	3625271	98.26	70	120	

Calibration Standard Report

In	115	1	No Gas	4765232	0.22	4826624	98.73	70	120	
Bi	209	1	No Gas	4994818	0.33	5040996	99.08	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:50:20-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	45561	0.00
V	51	2	He	84157	0.00
Cr	52	2	He	99220	0.00
Fe	56	2	He	8848571	0.00
Se	78	2	He	1492	0.15
As	75	2	He	14023	0.01
Ca	44	2	He	53995	0.00
Na	23	2	He	1443042	0.00
Mg	24	2	He	836661	0.00
K	39	2	He	1111672	0.00
Mn	55	2	He	73348	0.00
Co	59	2	He	143134	0.00
Ni	60	2	He	36963	0.02
Cu	63	2	He	98121	0.00
Zn	66	2	He	18600	0.01
Al	27	2	He	7175	0.02
B	11	1	No Gas	143787	0.00
Al	27	1	No Gas	276086	0.00
Si	28	1	No Gas	942178	0.00
Ag	107	1	No Gas	295295	0.00
Cd	111	1	No Gas	57393	0.00
Sr	88	1	No Gas	558292	0.00
Mo	95	1	No Gas	108290	0.00
Sn	118	1	No Gas	195612	0.00
Sb	121	1	No Gas	253345	0.00
Ba	137	1	No Gas	97568	0.00
Tl	205	1	No Gas	641551	0.00
Tl	203	1	No Gas	270115	0.00
Pb	208	1	No Gas	953267	0.00
U	238	1	No Gas	1002348	0.00
Ca	43	2	He	3054	0.20
Sb	121	2	He	112713	0.00
Cu	63	1	No Gas	208125	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1261654	0.20	1311506	96.20	70	120	
Ge	72	2	He	1013448	0.56	1024231	98.95	70	120	
Ge	72	1	No Gas	3524403	0.32	3625271	97.22	70	120	

Calibration Standard Report

In	115	1	No Gas	4733708	0.27	4826624	98.07	70	120	
Bi	209	1	No Gas	4986533	0.17	5040996	98.92	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:53:00-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	438437	0.00
V	51	2	He	780977	0.00
Cr	52	2	He	884236	0.00
Fe	56	2	He	86135269	0.00
Se	78	2	He	13360	0.02
As	75	2	He	136005	0.00
Ca	44	2	He	520925	0.00
Na	23	2	He	13217808	0.00
Mg	24	2	He	8181836	0.00
K	39	2	He	10054267	0.00
Mn	55	2	He	704323	0.00
Co	59	2	He	1378711	0.00
Ni	60	2	He	353702	0.00
Cu	63	2	He	937572	0.00
Zn	66	2	He	174511	0.00
Al	27	2	He	54623	0.01
B	11	1	No Gas	1230939	0.00
Al	27	1	No Gas	2066305	0.00
Si	28	1	No Gas	5540167	0.00
Ag	107	1	No Gas	2794774	0.00
Cd	111	1	No Gas	549564	0.00
Sr	88	1	No Gas	5465713	0.00
Mo	95	1	No Gas	1048424	0.00
Sn	118	1	No Gas	1846912	0.00
Sb	121	1	No Gas	2414256	0.00
Ba	137	1	No Gas	931776	0.00
Tl	205	1	No Gas	6527912	0.00
Tl	203	1	No Gas	2677534	0.00
Pb	208	1	No Gas	9036795	0.00
U	238	1	No Gas	9844995	0.00
Ca	43	2	He	30771	0.01
Sb	121	2	He	1086596	0.00
Cu	63	1	No Gas	1925848	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1199804	0.86	1311506	91.48	70	120	
Ge	72	2	He	991120	0.62	1024231	96.77	70	120	
Ge	72	1	No Gas	3419623	1.02	3625271	94.33	70	120	

Calibration Standard Report

In	115	1	No Gas	4559231	1.01	4826624	94.46	70	120	
Bi	209	1	No Gas	4766725	0.73	5040996	94.56	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:55:37-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	817241	0.00
V	51	2	He	1390010	0.00
Cr	52	2	He	1567590	0.00
Fe	56	2	He	152570694	0.00
Se	78	2	He	23825	0.01
As	75	2	He	245444	0.00
Ca	44	2	He	917403	0.00
Na	23	2	He	23642475	0.00
Mg	24	2	He	14414825	0.00
K	39	2	He	18019990	0.00
Mn	55	2	He	1233953	0.00
Co	59	2	He	2427490	0.00
Ni	60	2	He	624570	0.00
Cu	63	2	He	1656046	0.00
Zn	66	2	He	308434	0.00
Al	27	2	He	95010	0.01
B	11	1	No Gas	2345911	0.00
Al	27	1	No Gas	3821074	0.00
Si	28	1	No Gas	10015220	0.00
Ag	107	1	No Gas	5253095	0.00
Cd	111	1	No Gas	1033290	0.00
Sr	88	1	No Gas	10447917	0.00
Mo	95	1	No Gas	2011616	0.00
Sn	118	1	No Gas	3501678	0.00
Sb	121	1	No Gas	4613875	0.00
Ba	137	1	No Gas	1761568	0.00
Tl	205	1	No Gas	12296686	0.00
Tl	203	1	No Gas	5036372	0.00
Pb	208	1	No Gas	17369800	0.00
U	238	1	No Gas	19040135	0.00
Ca	43	2	He	55042	0.01
Sb	121	2	He	1942208	0.00
Cu	63	1	No Gas	3594160	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1149741	1.25	1311506	87.67	70	120	
Ge	72	2	He	980532	0.26	1024231	95.73	70	120	
Ge	72	1	No Gas	3348719	0.89	3625271	92.37	70	120	

Calibration Standard Report

In	115	1	No Gas	4489168	0.54	4826624	93.01	70	120	
Bi	209	1	No Gas	4657439	0.91	5040996	92.39	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:06:59-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	439243	0.00
V	51	2	He	793395	0.00
Cr	52	2	He	898049	0.00
Fe	56	2	He	87995329	0.00
Se	78	2	He	13672	0.01
As	75	2	He	137683	0.00
Ca	44	2	He	529957	0.00
Na	23	2	He	13562842	0.00
Mg	24	2	He	8355099	0.00
K	39	2	He	10326336	0.00
Mn	55	2	He	718660	0.00
Co	59	2	He	1393368	0.00
Ni	60	2	He	359924	0.00
Cu	63	2	He	948808	0.00
Zn	66	2	He	175069	0.00
Al	27	2	He	56179	0.01
B	11	1	No Gas	1241149	0.00
Al	27	1	No Gas	2108614	0.00
Si	28	1	No Gas	5629440	0.00
Ag	107	1	No Gas	2837640	0.00
Cd	111	1	No Gas	555906	0.00
Sr	88	1	No Gas	5622582	0.00
Mo	95	1	No Gas	1063037	0.00
Sn	118	1	No Gas	1883908	0.00
Sb	121	1	No Gas	2462252	0.00
Ba	137	1	No Gas	946776	0.00
Tl	205	1	No Gas	6577152	0.00
Tl	203	1	No Gas	2698179	0.00
Pb	208	1	No Gas	9298823	0.00
U	238	1	No Gas	10041080	0.00
Ca	43	2	He	31352	0.01
Sb	121	2	He	1102755	0.00
Cu	63	1	No Gas	1959324	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1199454	0.20	1311506	91.46	70	120	
Ge	72	2	He	988164	0.54	1024231	96.48	70	120	
Ge	72	1	No Gas	3455665	0.51	3625271	95.32	70	120	

Calibration Standard Report

In	115	1	No Gas	4584169	0.31	4826624	94.98	70	120	
Bi	209	1	No Gas	4817898	0.54	5040996	95.57	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:09:29-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	843817	0.00
V	51	2	He	1545285	0.00
Cr	52	2	He	1743352	0.00
Fe	56	2	He	169492937	0.00
Se	78	2	He	26583	0.01
As	75	2	He	266474	0.00
Ca	44	2	He	1032824	0.00
Na	23	2	He	26127261	0.00
Mg	24	2	He	16108926	0.00
K	39	2	He	19779666	0.00
Mn	55	2	He	1377897	0.00
Co	59	2	He	2700155	0.00
Ni	60	2	He	691304	0.00
Cu	63	2	He	1833855	0.00
Zn	66	2	He	338842	0.00
Al	27	2	He	105779	0.00
B	11	1	No Gas	2411542	0.00
Al	27	1	No Gas	3998174	0.00
Si	28	1	No Gas	10398479	0.00
Ag	107	1	No Gas	5436208	0.00
Cd	111	1	No Gas	1080698	0.00
Sr	88	1	No Gas	10854979	0.00
Mo	95	1	No Gas	2083281	0.00
Sn	118	1	No Gas	3671236	0.00
Sb	121	1	No Gas	4824383	0.00
Ba	137	1	No Gas	1855808	0.00
Tl	205	1	No Gas	12762014	0.00
Tl	203	1	No Gas	5248397	0.00
Pb	208	1	No Gas	18139289	0.00
U	238	1	No Gas	19870879	0.00
Ca	43	2	He	60033	0.01
Sb	121	2	He	2189284	0.00
Cu	63	1	No Gas	3754985	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1134408	0.74	1311506	86.50	70	120	
Ge	72	2	He	973177	0.24	1024231	95.02	70	120	
Ge	72	1	No Gas	3349657	0.47	3625271	92.40	70	120	

Calibration Standard Report

In	115	1	No Gas	4443871	0.12	4826624	92.07	70	120	
Bi	209	1	No Gas	4665365	0.67	5040996	92.55	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	021_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:15:11-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	100.222	1.855	1802956	1.92	100	100.2	90	110	
Be	9	1	No Gas	100.898	2.239	433580	2.32	100	100.9	90	110	
V	51	2	He	101.096	1.292	796454	1.08	100	101.1	90	110	
Cr	52	2	He	101.532	1.174	903539	0.92	100	101.5	90	110	
Fe	56	2	He	10173.860	1.246	87853115	1.07	10000	101.7	90	110	
Se	78	2	He	99.460	0.831	13503	0.54	100	99.5	90	110	
As	75	2	He	101.756	1.164	138100	0.98	100	101.8	90	110	
Ca	44	2	He	10094.252	1.876	530162	1.60	10000	100.9	90	110	
Na	23	2	He	10127.308	2.189	13515515	2.12	10000	101.3	90	110	
Mg	24	2	He	10171.308	1.682	8345853	1.61	10000	101.7	90	110	
K	39	2	He	10099.196	1.567	10224257	1.37	10000	101.0	90	110	
Mn	55	2	He	101.635	1.566	714402	1.38	100	101.6	90	110	
Co	59	2	He	101.991	1.665	1401468	1.61	100	102.0	90	110	
Ni	60	2	He	102.173	1.423	360180	1.29	100	102.2	90	110	
Cu	63	2	He	102.151	1.931	953945	1.76	100	102.2	90	110	
Zn	66	2	He	102.900	1.013	177857	0.77	100	102.9	90	110	
Al	27	2	He	99.810	4.378	54626	4.19	100	99.8	90	110	
B	11	1	No Gas	502.893	1.140	1221090	1.24	500	100.6	90	110	
Al	27	1	No Gas	100.878	2.414	2085315	2.17	100	100.9	90	110	
Si	28	1	No Gas	502.785	2.747	5529521	2.04	500	100.6	90	110	
Ag	107	1	No Gas	100.264	2.028	2813301	2.04	100	100.3	90	110	
Cd	111	1	No Gas	99.886	1.075	555466	1.12	100	99.9	90	110	
Sr	88	1	No Gas	99.437	1.619	5562432	1.73	100	99.4	90	110	
Mo	95	1	No Gas	98.573	1.962	1055026	2.08	100	98.6	90	110	
Sn	118	1	No Gas	99.497	1.347	1880896	1.41	100	99.5	90	110	
Sb	121	1	No Gas	99.766	2.203	2445623	2.01	100	99.8	90	110	
Ba	137	1	No Gas	98.859	1.904	942793	2.06	100	98.9	90	110	
Tl	205	1	No Gas	101.042	2.224	6657688	2.66	100	101.0	90	110	
Tl	203	1	No Gas	100.849	2.138	2731479	2.50	100	100.8	90	110	
Pb	208	1	No Gas	99.701	2.350	9329071	2.83	100	99.7	90	110	
U	238	1	No Gas	98.308	1.773	10046433	2.27	100	98.3	90	110	
Ca	43	2	He	10197.790	1.545	31239	1.31	10000	102.0	90	110	
Sb	121	2	He	99.342	1.339	1101363	1.26	100	99.3	90	110	
Ti	47	2	He	102.476	0.481	30891	0.73	100	102.5	90	110	
Cu	63	1	No Gas	101.583	2.116	1947780	2.09	100	101.6	90	110	
Se	82	1	No Gas	99.278	1.073	33204	1.19	100	99.3	90	110	
Zr	90	1	No Gas	97.875	2.145	3480387	2.35	100	97.9	90	110	
Zr	90	2	He	98.920	2.012	1388252	1.92	100	98.9	90	1100	

QC ISTD Table

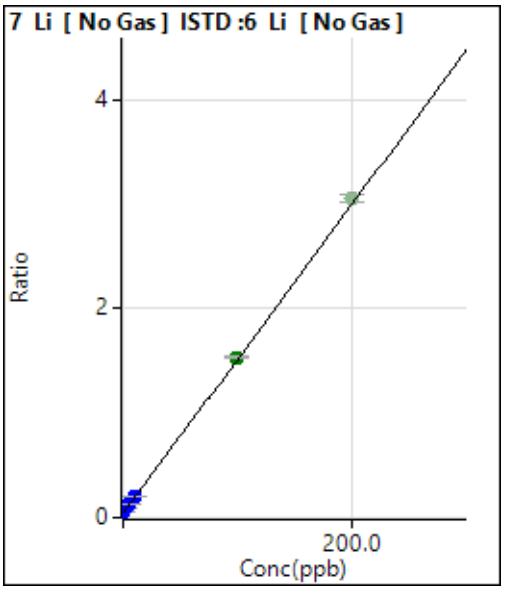
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1173827	0.16	1311506	89.50	70	120	
Ge	72	2	He	987170	0.29	1024231	96.38	70	120	
Ge	72	1	No Gas	3411266	0.96	3625271	94.10	70	120	
In	115	1	No Gas	4575856	0.33	4826624	94.80	70	120	
Bi	209	1	No Gas	4818893	0.55	5040996	95.59	70	120	

Calibration for 021_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/26/2024 10:42:15 AM
2	011CALS.d	2/10/200	6/26/2024 10:44:58 AM
3	012CALS.d	5/25/500	6/26/2024 10:47:39 AM
4	013CALS.d	10/50/100	6/26/2024 10:50:20 AM
5	018CALS.d	100/500/10K	6/26/2024 11:06:59 AM
6	019CALS.d	200/1000/20K	6/26/2024 11:09:29 AM

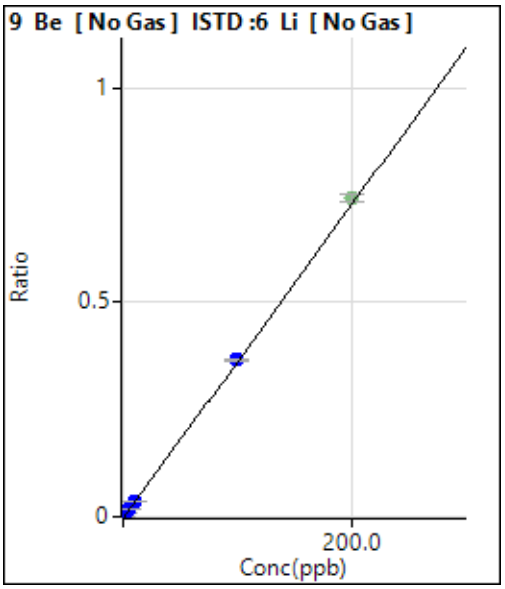
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73766.09	0.0562	P	1.0	
2	☐	2.000	1.894	109167.18	0.0842	P	0.9	-5.3
3	☐	5.000	4.769	161883.22	0.1267	P	1.5	-4.6
4	☐	10.000	9.751	252585.33	0.2002	P	1.7	-2.5
5	☐	100.000	100.039	1839078.05	1.5332	A	1.4	0.0
6	☑	200.000		3466147.03	3.0558	A	2.3	

y = 0.0148 * x + 0.0562
R = 1.0000
DL = 0.1166 ppb
BEC = 3.81 ppb

Weight: <None>
Min Conc: <None>

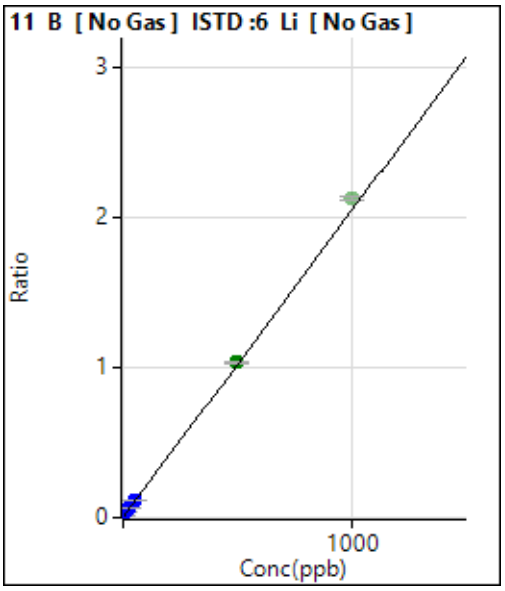


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	151.67	0.0001	P	1.5	
2	☐	2.000	1.920	9258.07	0.0071	P	4.9	-4.0
3	☐	5.000	4.751	22374.32	0.0175	P	3.2	-5.0
4	☐	10.000	9.836	45561.00	0.0361	P	2.1	-1.6
5	☐	100.000	100.030	439242.92	0.3662	P	1.8	0.0
6	☑	200.000		843817.41	0.7439	A	2.9	

y = 0.0037 * x + 1.1564E-004
R = 1.0000
DL = 0.001434 ppb
BEC = 0.0316 ppb

Weight: <None>
Min Conc: <None>

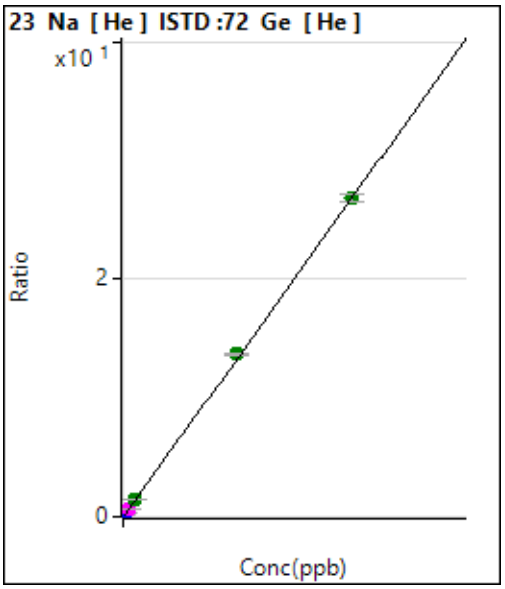
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18710.69	0.0143	P	0.2	
2	☐	10.000	9.980	44891.16	0.0346	P	2.1	-0.2
3	☐	25.000	23.408	79277.84	0.0620	P	2.1	-6.4
4	☐	50.000	48.870	143787.28	0.1140	P	1.6	-2.3
5	☐	500.000	500.193	1241149.15	1.0347	A	1.0	0.0
6	☑	1000.000		2411542.31	2.1260	A	1.8	

y = 0.0020 * x + 0.0143
R = 1.0000
DL = 0.04583 ppb
BEC = 6.993 ppb

Weight: <None>
Min Conc: <None>

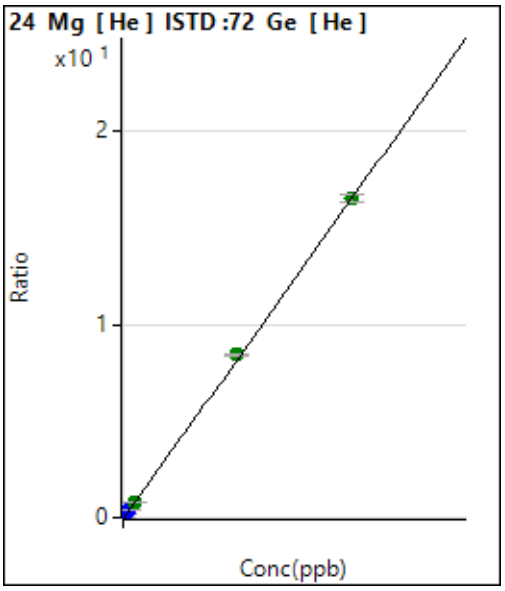


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95799.83	0.0935	P	1.4	
2	☐	200.000	187.897	353013.68	0.3458	P	1.4	-6.1
3	☐	500.000	462.260	725631.21	0.7142	M	3.3	-7.5
4	☐	1000.000	990.753	1443041.90	1.4238	A	1.6	-0.9
5	☐	10000.00	10152.23	13562841.88	13.7248	A	1.1	1.5
6	☐	20000.00	19925.40	26127261.28	26.8471	A	2.0	-0.4

y = 0.0013 * x + 0.0935
R = 1.0000
DL = 2.973 ppb
BEC = 69.67 ppb

Weight: <None>
Min Conc: <None>

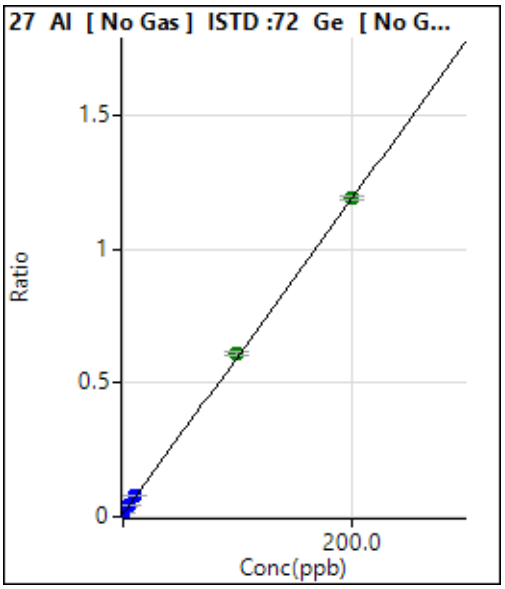
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1183.40	0.0012	P	12.3	
2	☐	200.000	190.743	163017.44	0.1597	P	2.6	-4.6
3	☐	500.000	465.178	393954.77	0.3878	P	3.2	-7.0
4	☐	1000.000	991.890	836660.51	0.8255	A	1.8	-0.8
5	☐	10000.00	10171.81	8355099.04	8.4548	A	1.2	1.7
6	☐	20000.00	19915.46	16108926.43	16.5527	A	2.7	-0.4

y = 8.3109E-004 * x + 0.0012
R = 0.9999
DL = 0.5122 ppb
BEC = 1.391 ppb

Weight: <None>
Min Conc: <None>

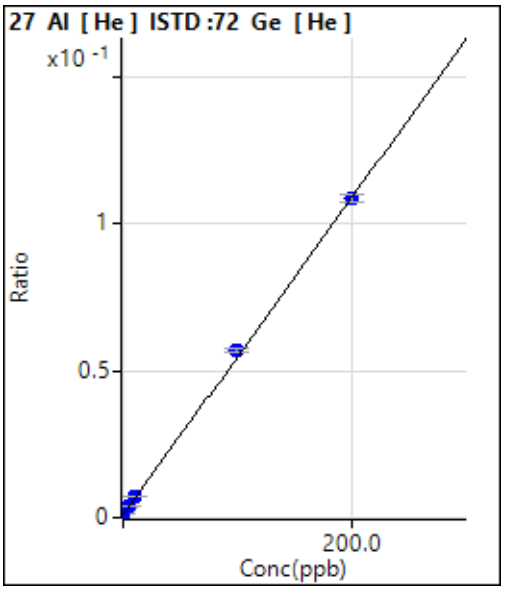


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59947.83	0.0165	P	1.1	
2	☐	2.000	3.347	130486.80	0.0363	P	3.7	67.3
3	☐	5.000	4.917	162171.59	0.0455	P	1.8	-1.7
4	☐	10.000	10.481	276085.77	0.0783	P	1.8	4.8
5	☐	100.000	100.685	2108614.08	0.6102	A	1.7	0.7
6	☐	200.000	199.622	3998173.79	1.1936	A	1.4	-0.2

y = 0.0059 * x + 0.0165
R = 1.0000
DL = 0.09435 ppb
BEC = 2.804 ppb

Weight: <None>
Min Conc: <None>

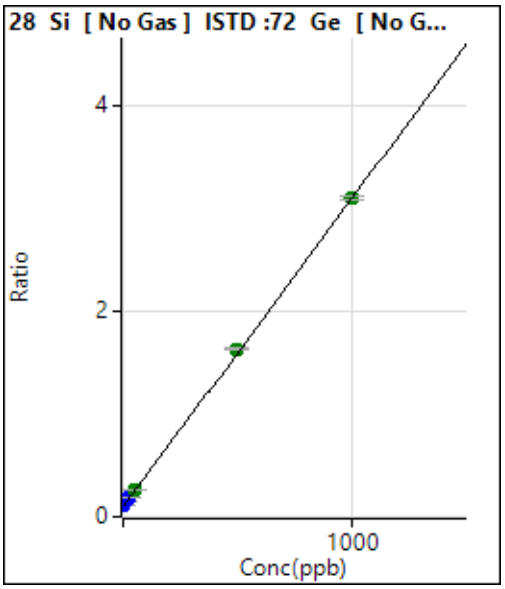
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1503.44	0.0015	P	16.4	
2	☐	2.000	3.164	3243.77	0.0032	P	8.6	58.2
3	☐	5.000	4.704	4070.66	0.0040	P	5.1	-5.9
4	☐	10.000	10.398	7175.28	0.0071	P	0.6	4.0
5	☐	100.000	102.614	56178.74	0.0569	P	3.0	2.6
6	☐	200.000	198.669	105778.78	0.1087	P	2.6	-0.7

y = 5.3971E-004 * x + 0.0015
R = 0.9999
DL = 1.335 ppb
BEC = 2.72 ppb

Weight: <None>
Min Conc: <None>

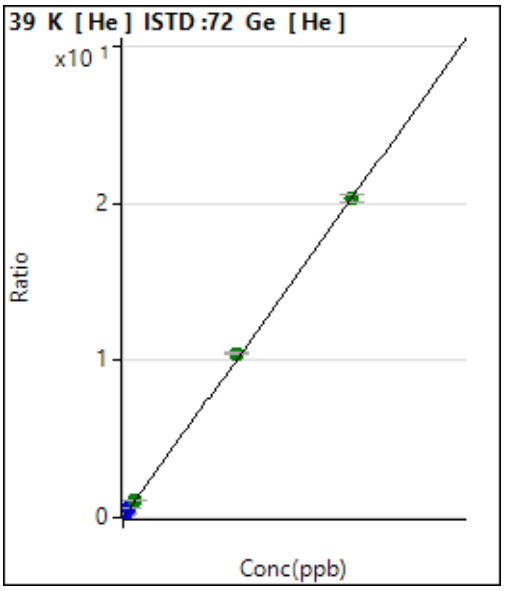


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	409185.78	0.1129	P	1.3	
2	☐	10.000	11.595	531313.48	0.1477	P	1.2	16.0
3	☐	25.000	25.576	675399.63	0.1896	P	1.1	2.3
4	☐	50.000	51.490	942177.72	0.2673	A	1.4	3.0
5	☐	500.000	505.434	5629439.92	1.6291	A	1.4	1.1
6	☐	1000.000	997.178	10398479.43	3.1042	A	1.2	-0.3

y = 0.0030 * x + 0.1129
R = 1.0000
DL = 1.499 ppb
BEC = 37.63 ppb

Weight: <None>
Min Conc: <None>

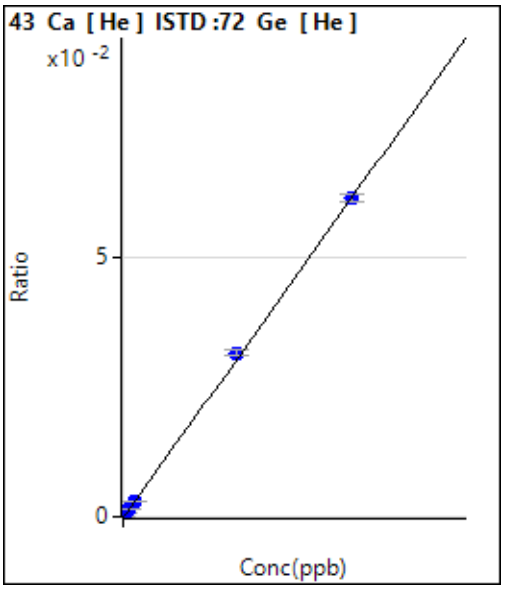
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96273.60	0.0940	P	0.9	
2	☐	200.000	190.380	293450.63	0.2875	P	1.4	-4.8
3	☐	500.000	461.318	571831.06	0.5628	P	1.6	-7.7
4	☐	1000.000	986.820	1111672.46	1.0969	A	1.6	-1.3
5	☐	10000.00	10189.95	10326336.30	10.4496	A	1.3	1.9
6	☐	20000.00	19906.74	19779665.54	20.3243	A	2.3	-0.5

y = 0.0010 * x + 0.0940
R = 0.9999
DL = 2.521 ppb
BEC = 92.49 ppb

Weight: <None>
Min Conc: <None>

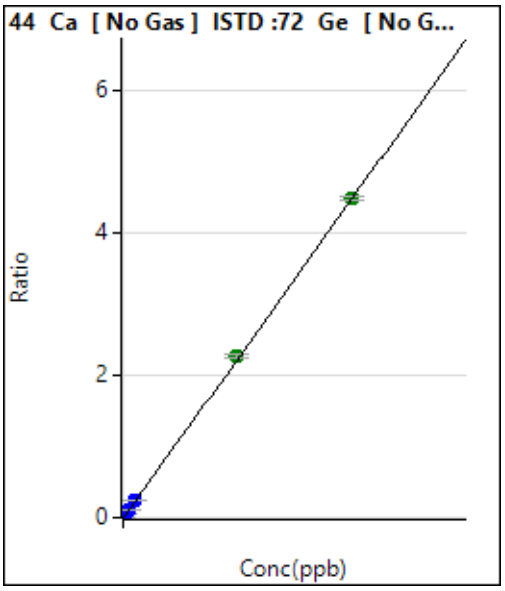


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	53.3	
2	☐	200.000	197.281	670.03	0.0007	P	8.0	-1.4
3	☐	500.000	436.412	1420.10	0.0014	P	9.9	-12.7
4	☐	1000.000	957.556	3053.72	0.0030	P	5.7	-4.2
5	☐	10000.00	10223.79	31352.24	0.0317	P	3.0	2.2
6	☐	20000.00	19891.84	60032.57	0.0617	P	2.9	-0.5

y = 3.0987E-006 * x + 4.5465E-005
R = 0.9999
DL = 23.48 ppb
BEC = 14.67 ppb

Weight: <None>
Min Conc: <None>

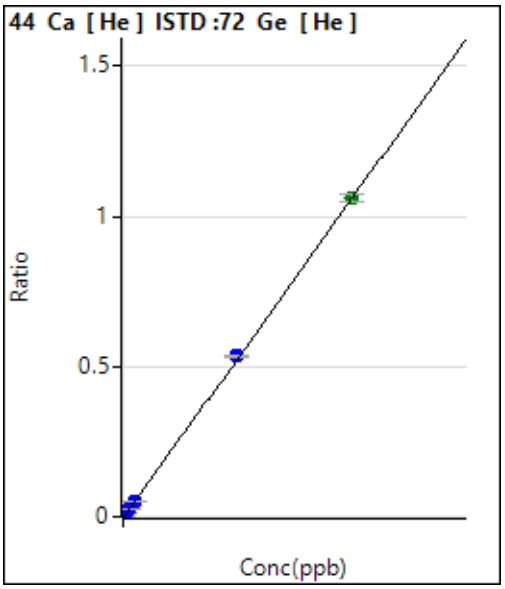
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38924.97	0.0107	P	1.2	
2	☐	200.000	202.706	202207.96	0.0562	P	3.9	1.4
3	☐	500.000	486.698	427151.40	0.1199	P	2.1	-2.7
4	☐	1000.000	994.165	823782.98	0.2337	P	2.1	-0.6
5	☐	10000.00	10094.04	7861349.67	2.2750	A	1.8	0.9
6	☐	20000.00	19953.57	15029153.94	4.4866	A	1.1	-0.2

y = 2.2432E-004 * x + 0.0107
R = 1.0000
DL = 1.669 ppb
BEC = 47.86 ppb

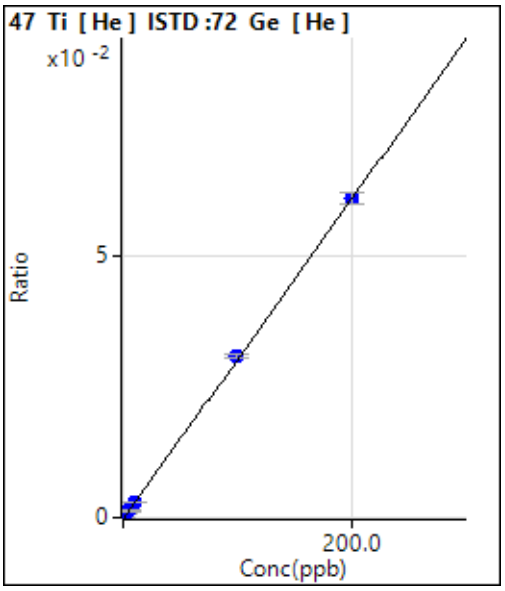
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0008	P	14.0	
2	☐	200.000	199.401	11671.74	0.0114	P	3.5	-0.3
3	☐	500.000	457.772	25560.40	0.0252	P	4.4	-8.4
4	☐	1000.000	987.118	53995.18	0.0533	P	1.2	-1.3
5	☐	10000.00	10079.51	529956.54	0.5363	P	0.9	0.8
6	☐	20000.00	19961.94	1032824.41	1.0613	A	2.8	-0.2

y = 5.3122E-005 * x + 8.4230E-004
R = 1.0000
DL = 6.667 ppb
BEC = 15.86 ppb

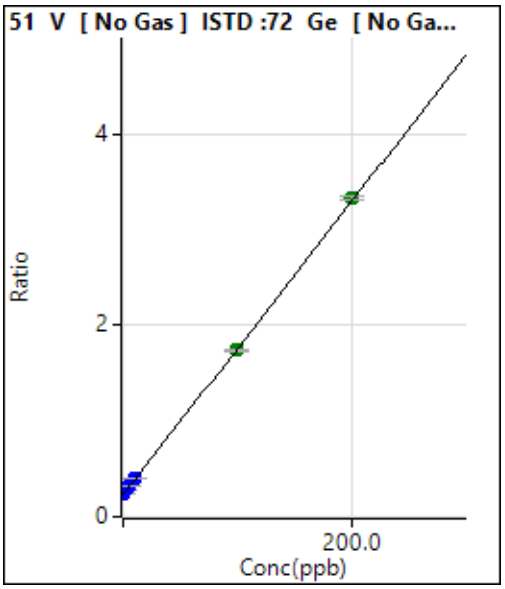
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.065	650.02	0.0006	P	9.5	3.2
3	☐	5.000	4.398	1370.10	0.0013	P	16.5	-12.0
4	☐	10.000	9.405	2917.03	0.0029	P	5.6	-5.9
5	☐	100.000	101.126	30517.18	0.0309	P	2.3	1.1
6	☐	200.000	199.481	59276.58	0.0609	P	3.8	-0.3

y = 3.0530E-004 * x + 6.4965E-006
R = 1.0000
DL = 0.05529 ppb
BEC = 0.02128 ppb

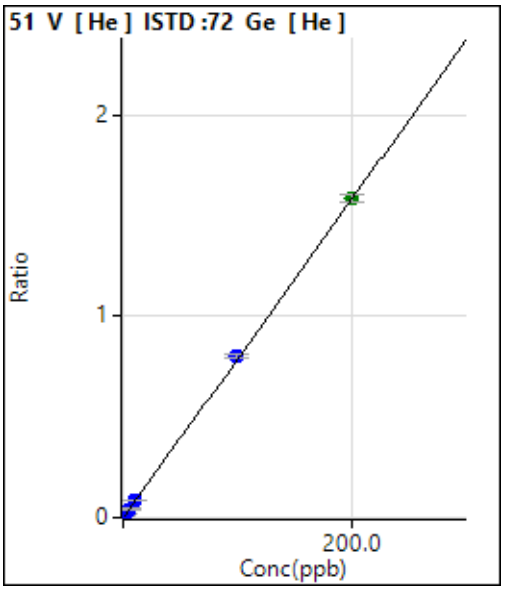
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	898774.18	0.2479	P	0.4	
2	☐	2.000	1.942	998926.92	0.2776	P	2.9	-2.9
3	☐	5.000	4.451	1125876.97	0.3161	P	1.5	-11.0
4	☐	10.000	10.135	1420588.30	0.4031	P	1.3	1.4
5	☐	100.000	97.249	6001487.77	1.7367	A	1.9	-2.8
6	☐	200.000	201.383	11158012.07	3.3310	A	1.3	0.7

y = 0.0153 * x + 0.2479
R = 0.9999
DL = 0.2155 ppb
BEC = 16.19 ppb

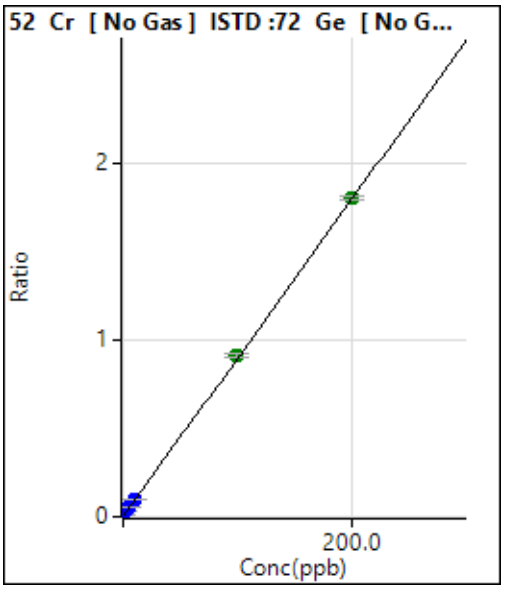
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6458.20	0.0063	P	3.0	
2	☐	2.000	1.912	21895.13	0.0214	P	2.4	-4.4
3	☐	5.000	4.587	43309.59	0.0426	P	3.5	-8.3
4	☐	10.000	9.690	84156.78	0.0830	P	1.7	-3.1
5	☐	100.000	100.595	793394.60	0.8029	P	1.5	0.6
6	☐	200.000	199.729	1545285.35	1.5878	A	2.5	-0.1

y = 0.0079 * x + 0.0063
R = 1.0000
DL = 0.07219 ppb
BEC = 0.7964 ppb

Weight: <None>
Min Conc: <None>

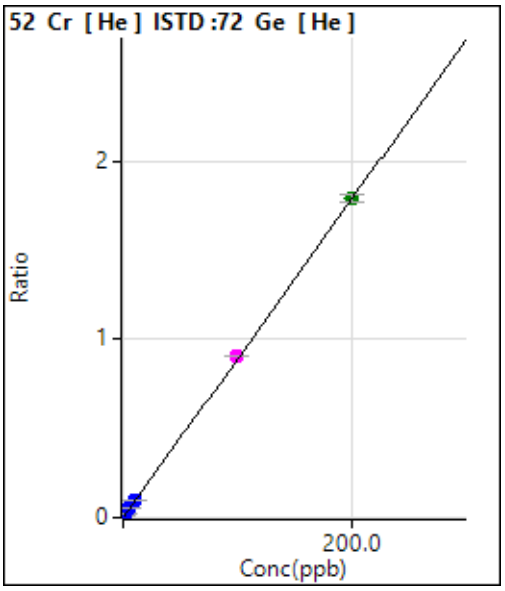


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38527.15	0.0106	P	1.1	
2	☐	2.000	1.935	100543.18	0.0279	P	4.0	-3.3
3	☐	5.000	4.767	189908.25	0.0533	P	2.3	-4.7
4	☐	10.000	9.750	345108.59	0.0979	P	1.7	-2.5
5	☐	100.000	100.259	3138553.39	0.9083	A	2.1	0.3
6	☐	200.000	199.889	6030638.45	1.8003	A	1.7	-0.1

y = 0.0090 * x + 0.0106
R = 1.0000
DL = 0.04009 ppb
BEC = 1.187 ppb

Weight: <None>
Min Conc: <None>

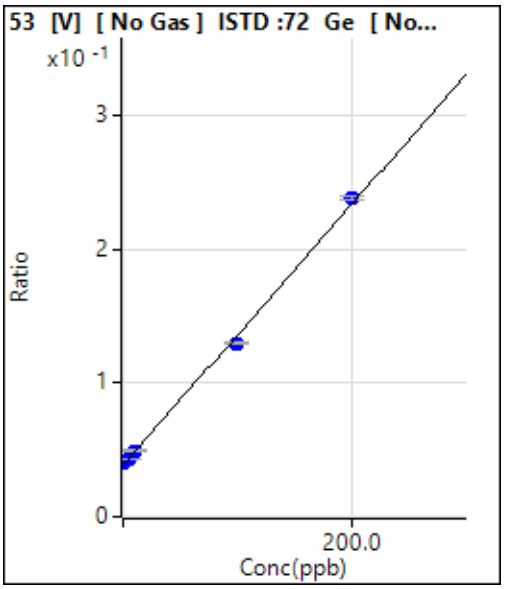
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8549.46	0.0083	P	1.0	
2	☐	2.000	1.875	25620.65	0.0251	P	0.7	-6.2
3	☐	5.000	4.722	51335.22	0.0505	P	4.7	-5.6
4	☐	10.000	10.025	99219.98	0.0979	P	1.7	0.2
5	☐	100.000	100.803	898049.36	0.9088	M	0.4	0.8
6	☐	200.000	199.605	1743351.59	1.7914	A	2.4	-0.2

y = 0.0089 * x + 0.0083
R = 1.0000
DL = 0.02943 ppb
BEC = 0.9345 ppb

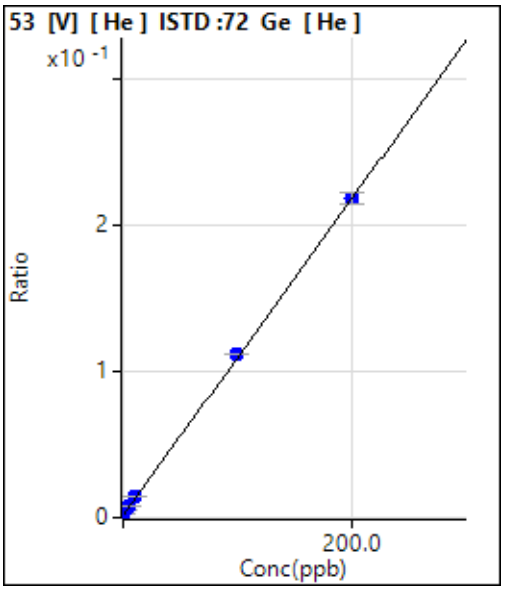
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145003.04	0.0400	P	0.4	
2	☐	2.000	1.823	150279.69	0.0418	P	2.7	-8.9
3	☐	5.000	3.259	153763.79	0.0432	P	1.3	-34.8
4	☐	10.000	9.700	174195.21	0.0494	P	1.0	-3.0
5	☐	100.000	92.327	448321.17	0.1297	P	1.6	-7.7
6	☐	200.000	203.897	797864.18	0.2382	P	1.3	1.9

y = 9.7199E-004 * x + 0.0400
R = 0.9990
DL = 0.4971 ppb
BEC = 41.15 ppb

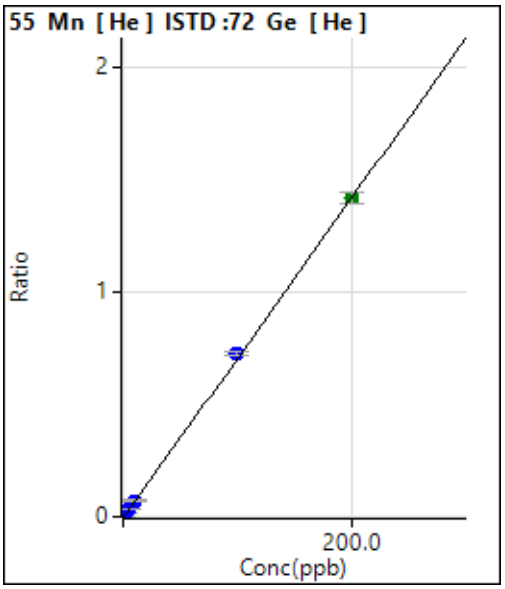
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2686.98	0.0026	P	8.2	
2	☐	2.000	1.934	4814.27	0.0047	P	3.2	-3.3
3	☐	5.000	4.696	7825.72	0.0077	P	6.7	-6.1
4	☐	10.000	10.570	14247.55	0.0141	P	0.5	5.7
5	☐	100.000	101.208	110789.82	0.1121	P	0.5	1.2
6	☐	200.000	199.376	212472.27	0.2183	P	3.2	-0.3

y = 0.0011 * x + 0.0026
R = 1.0000
DL = 0.5932 ppb
BEC = 2.425 ppb

Weight: <None>
Min Conc: <None>

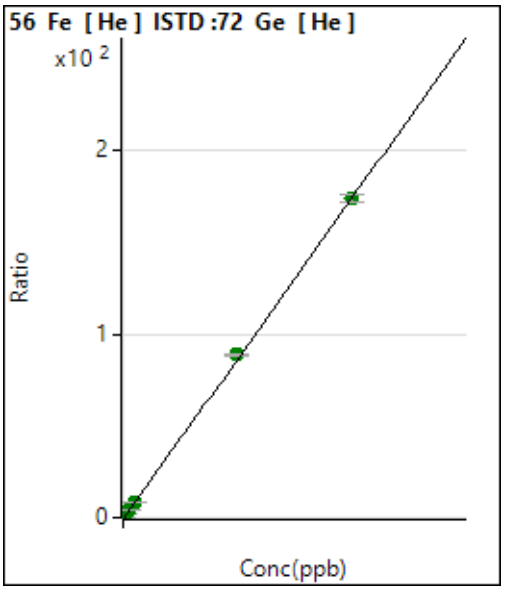


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.71	0.0008	P	21.6	
2	☐	2.000	1.969	15095.15	0.0148	P	4.3	-1.6
3	☐	5.000	4.654	34429.88	0.0339	P	0.8	-6.9
4	☐	10.000	10.065	73347.84	0.0724	P	2.3	0.6
5	☐	100.000	102.130	718660.02	0.7272	P	1.8	2.1
6	☐	200.000	198.941	1377896.85	1.4158	A	3.1	-0.5

y = 0.0071 * x + 7.7875E-004
R = 0.9999
DL = 0.07085 ppb
BEC = 0.1095 ppb

Weight: <None>
Min Conc: <None>

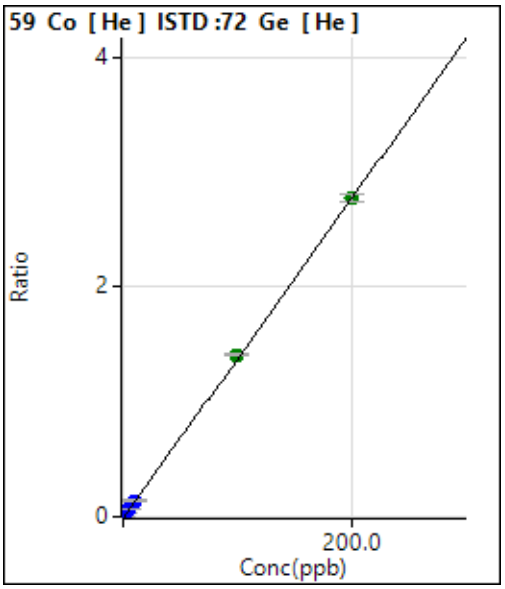
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15725.88	0.0154	P	2.0	
2	☐	200.000	193.738	1745375.60	1.7098	A	1.8	-3.1
3	☐	500.000	463.555	4134670.77	4.0696	A	3.4	-7.3
4	☐	1000.000	996.475	8848571.12	8.7306	A	1.8	-0.4
5	☐	10000.00	10179.44	87995328.69	89.0452	A	1.4	1.8
6	☐	20000.00	19911.42	169492937.4	174.161	A	2.7	-0.4

y = 0.0087 * x + 0.0154
R = 0.9999
DL = 0.1062 ppb
BEC = 1.755 ppb

Weight: <None>
Min Conc: <None>

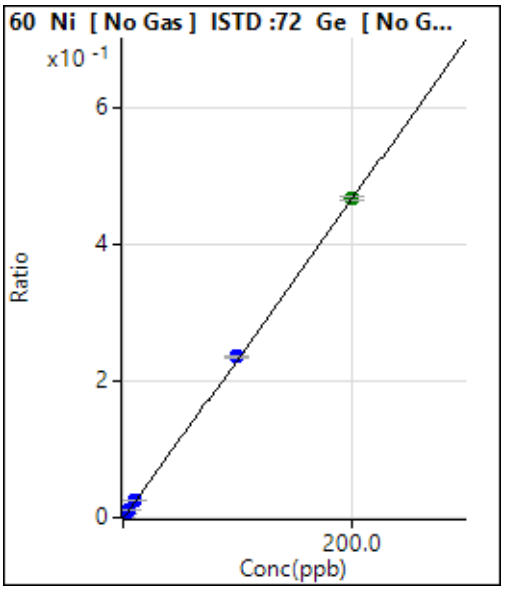


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	6.7	
2	☐	2.000	1.935	27958.63	0.0274	P	3.6	-3.3
3	☐	5.000	4.711	67066.13	0.0660	P	2.9	-5.8
4	☐	10.000	10.116	143133.87	0.1412	P	2.4	1.2
5	☐	100.000	101.294	1393368.26	1.4100	A	1.3	1.3
6	☐	200.000	199.355	2700154.85	2.7745	A	2.0	-0.3

y = 0.0139 * x + 4.6201E-004
R = 1.0000
DL = 0.006679 ppb
BEC = 0.0332 ppb

Weight: <None>
Min Conc: <None>

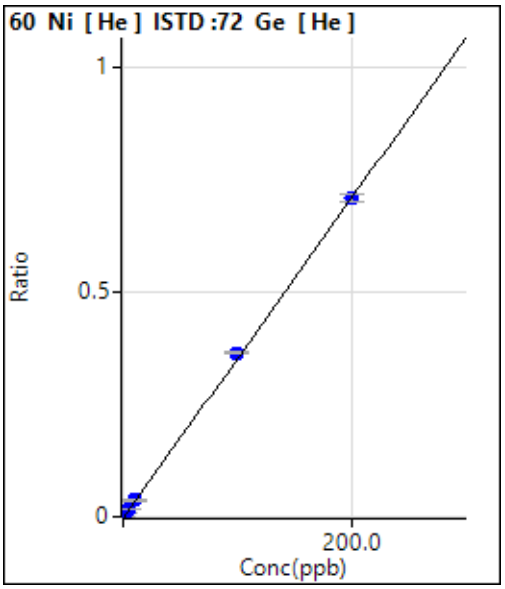
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1140.07	0.0003	P	12.1	
2	☐	2.000	2.089	18719.66	0.0052	P	4.2	4.5
3	☐	5.000	4.963	42488.93	0.0119	P	1.5	-0.7
4	☐	10.000	10.242	85568.15	0.0243	P	1.6	2.4
5	☐	100.000	100.481	813536.68	0.2354	P	2.1	0.5
6	☐	200.000	199.747	1566698.83	0.4677	A	1.4	-0.1

y = 0.0023 * x + 3.1434E-004
R = 1.0000
DL = 0.04884 ppb
BEC = 0.1343 ppb

Weight: <None>
Min Conc: <None>

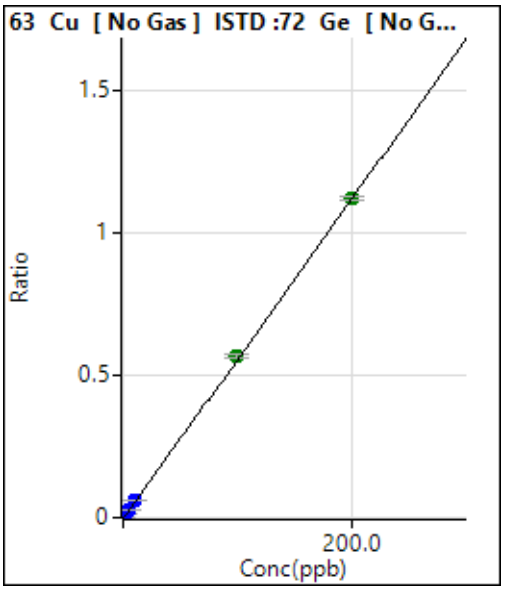


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0003	P	21.5	
2	☐	2.000	1.940	7388.77	0.0072	P	3.1	-3.0
3	☐	5.000	4.780	17651.59	0.0174	P	6.0	-4.4
4	☐	10.000	10.132	36963.30	0.0365	P	5.2	1.3
5	☐	100.000	101.993	359924.07	0.3642	P	1.1	2.0
6	☐	200.000	199.003	691304.39	0.7103	P	2.6	-0.5

y = 0.0036 * x + 3.1933E-004
R = 0.9999
DL = 0.05785 ppb
BEC = 0.0895 ppb

Weight: <None>
Min Conc: <None>

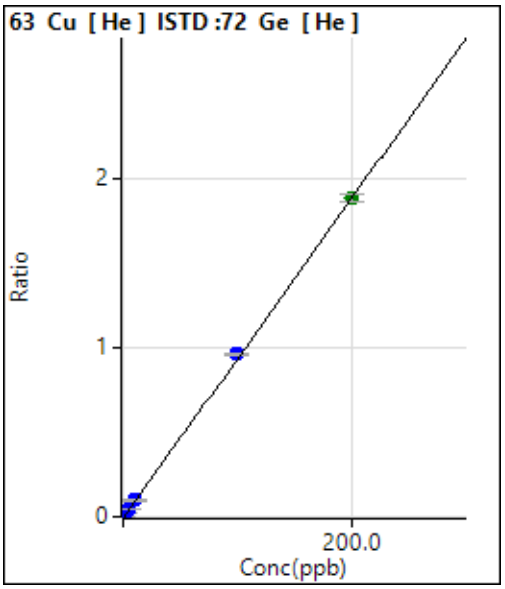
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.29	0.0007	P	7.0	
2	☐	2.000	2.079	44542.26	0.0124	P	4.3	3.9
3	☐	5.000	5.127	105069.14	0.0295	P	3.1	2.5
4	☐	10.000	10.392	208124.53	0.0591	P	1.4	3.9
5	☐	100.000	100.871	1959324.09	0.5670	A	1.9	0.9
6	☐	200.000	199.541	3754985.15	1.1210	A	1.6	-0.2

y = 0.0056 * x + 7.1180E-004
R = 1.0000
DL = 0.02647 ppb
BEC = 0.1268 ppb

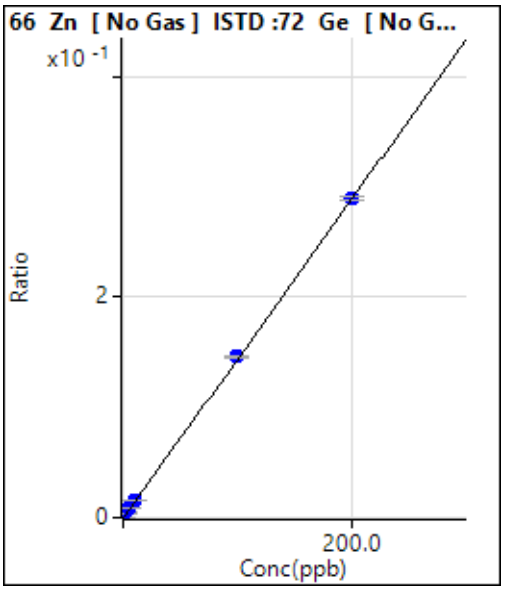
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0006	P	11.1	
2	☐	2.000	2.075	20655.78	0.0202	P	1.1	3.8
3	☐	5.000	4.764	46384.96	0.0457	P	3.5	-4.7
4	☐	10.000	10.175	98121.35	0.0968	P	1.4	1.8
5	☐	100.000	101.490	948807.85	0.9601	P	1.9	1.5
6	☐	200.000	199.252	1833855.39	1.8844	A	2.4	-0.4

y = 0.0095 * x + 6.1822E-004
R = 1.0000
DL = 0.02173 ppb
BEC = 0.06539 ppb

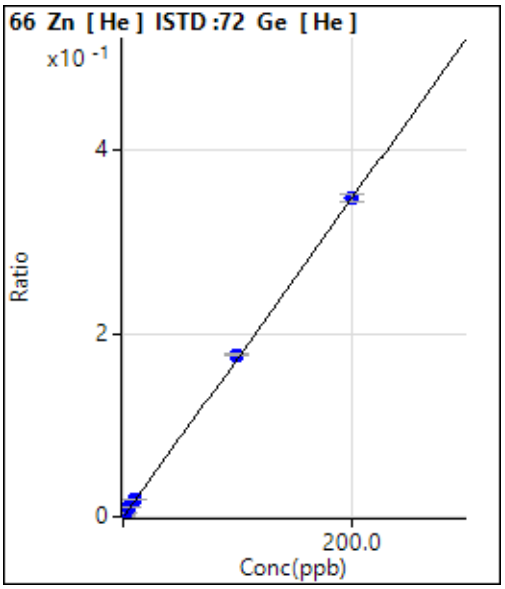
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2643.64	0.0007	P	3.0	
2	☐	2.000	2.593	16123.09	0.0045	P	7.0	29.7
3	☐	5.000	5.195	29385.03	0.0082	P	1.9	3.9
4	☐	10.000	10.221	54709.16	0.0155	P	2.4	2.2
5	☐	100.000	100.589	505658.04	0.1463	P	1.6	0.6
6	☐	200.000	199.684	970670.46	0.2898	P	1.7	-0.2

y = 0.0014 * x + 7.2926E-004
R = 1.0000
DL = 0.04504 ppb
BEC = 0.5038 ppb

Weight: <None>
Min Conc: <None>

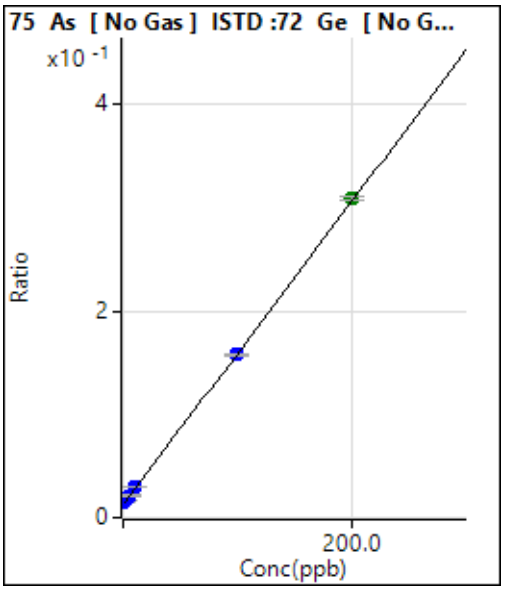


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0011	P	12.7	
2	☐	2.000	2.324	5207.73	0.0051	P	4.5	16.2
3	☐	5.000	5.027	9963.76	0.0098	P	2.6	0.5
4	☐	10.000	9.938	18599.57	0.0184	P	1.3	-0.6
5	☐	100.000	101.169	175068.72	0.1772	P	1.0	1.2
6	☐	200.000	199.415	338842.07	0.3482	P	2.1	-0.3

y = 0.0017 * x + 0.0011
R = 1.0000
DL = 0.2308 ppb
BEC = 0.6061 ppb

Weight: <None>
Min Conc: <None>

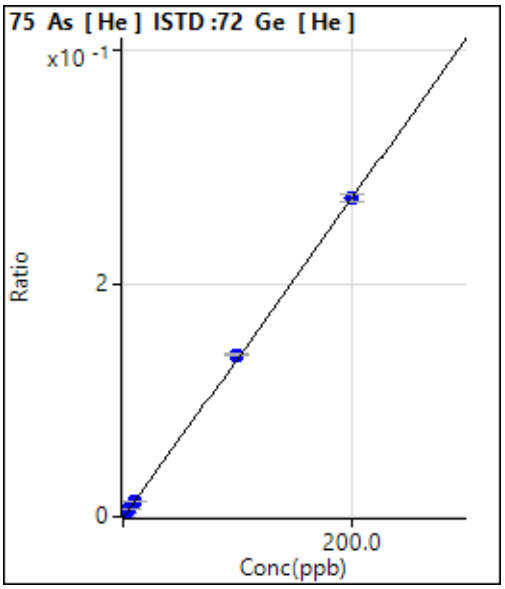
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	51447.16	0.0142	P	0.6	
2	☐	2.000	2.131	62315.82	0.0173	P	1.5	6.5
3	☐	5.000	4.885	76095.41	0.0214	P	3.2	-2.3
4	☐	10.000	10.130	102418.59	0.0291	P	1.2	1.3
5	☐	100.000	97.748	544819.98	0.1577	P	2.0	-2.3
6	☐	200.000	201.121	1036374.02	0.3094	A	1.2	0.6

y = 0.0015 * x + 0.0142
R = 0.9999
DL = 0.1756 ppb
BEC = 9.669 ppb

Weight: <None>
Min Conc: <None>

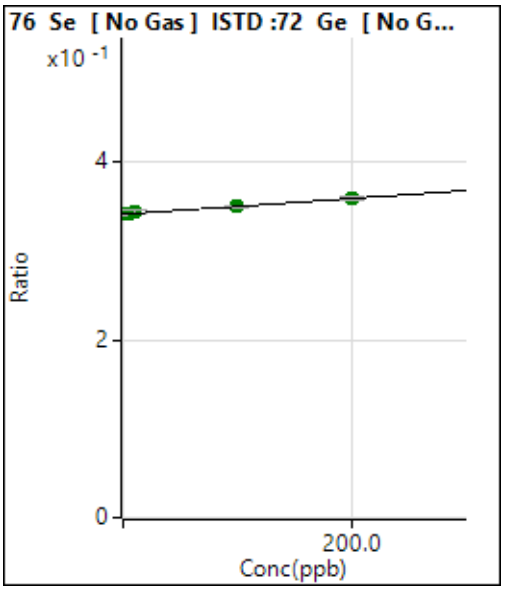


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	275.56	0.0003	P	9.7	
2	☐	2.000	1.951	3008.13	0.0029	P	1.0	-2.4
3	☐	5.000	4.533	6592.74	0.0065	P	2.9	-9.3
4	☐	10.000	9.887	14022.77	0.0138	P	1.3	-1.1
5	☐	100.000	101.339	137682.54	0.1393	P	1.5	1.3
6	☐	200.000	199.349	266474.03	0.2738	P	2.3	-0.3

y = 0.0014 * x + 2.6901E-004
R = 1.0000
DL = 0.0568 ppb
BEC = 0.196 ppb

Weight: <None>
Min Conc: <None>

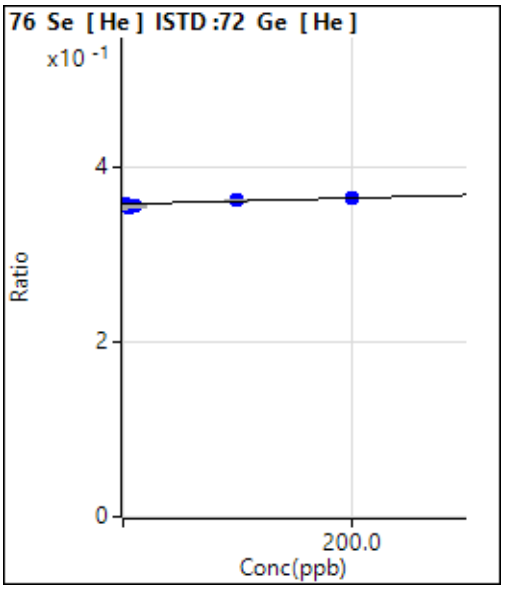
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1237660.55	0.3414	A	0.5	
2	☐	2.000	-1.887	1227906.99	0.3412	A	0.9	-194.3
3	☐	5.000	-1.017	1215855.47	0.3413	A	0.9	-120.3
4	☐	10.000	35.309	1214376.88	0.3446	A	0.9	253.1
5	☐	100.000	96.003	1209468.21	0.3500	A	0.3	-4.0
6	☐	200.000	200.922	1203818.55	0.3594	A	0.7	0.5

y = 8.9525E-005 * x + 0.3414
R = 0.9897
DL = 55.62 ppb
BEC = 3814 ppb

Weight: <None>
Min Conc: <None>

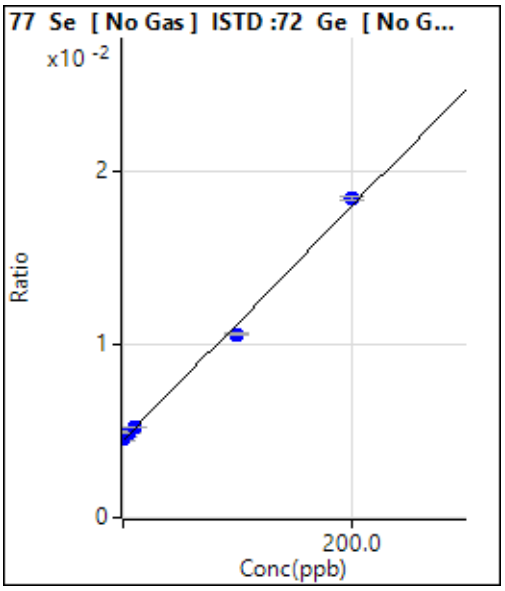


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366192.12	0.3575	P	1.4	
2	☐	2.000	3.643	365071.79	0.3576	P	0.5	82.2
3	☐	5.000	-134.215	358527.12	0.3529	P	0.9	-2784.3
4	☐	10.000	-74.147	359722.92	0.3549	P	0.4	-841.5
5	☐	100.000	112.851	357152.25	0.3614	P	0.7	12.9
6	☐	200.000	201.246	354728.94	0.3645	P	0.2	0.6

y = 3.4707E-005 * x + 0.3575
R = 0.8878
DL = 421.7 ppb
BEC = 1.03E+04 ppb

Weight: <None>
Min Conc: <None>

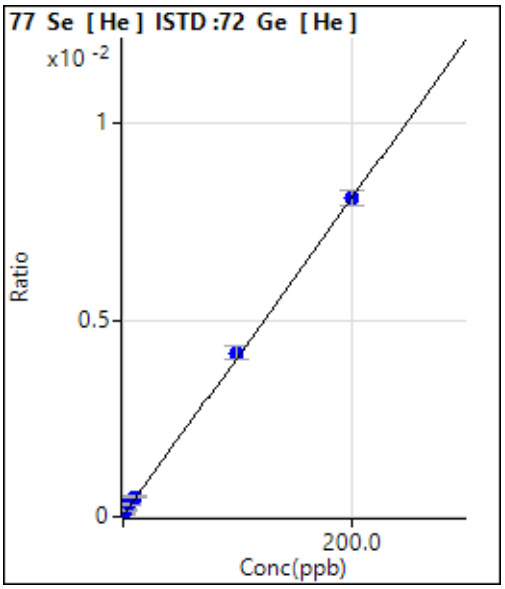
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16567.02	0.0046	P	3.3	
2	☐	2.000	3.590	17307.97	0.0048	P	5.7	79.5
3	☐	5.000	5.083	17498.25	0.0049	P	2.2	1.7
4	☐	10.000	9.865	18449.49	0.0052	P	1.1	-1.4
5	☐	100.000	88.905	36515.87	0.0106	P	1.3	-11.1
6	☐	200.000	205.536	61753.39	0.0184	P	1.6	2.8

y = 6.7460E-005 * x + 0.0046
R = 0.9978
DL = 6.633 ppb
BEC = 67.74 ppb

Weight: <None>
Min Conc: <None>

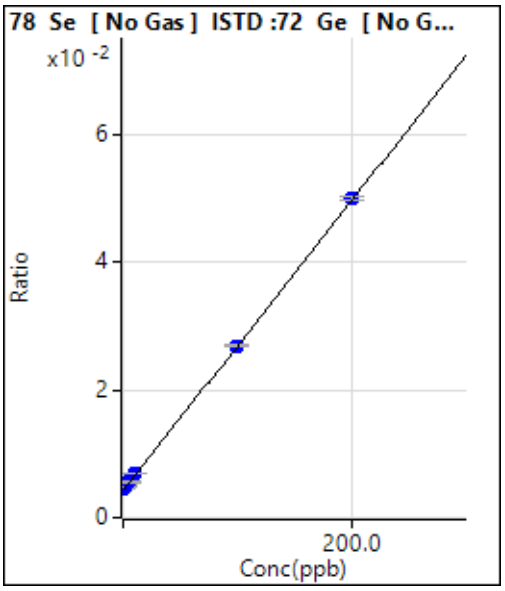


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	40.3	
2	☐	2.000	1.955	156.67	0.0002	P	32.3	-2.2
3	☐	5.000	6.357	336.68	0.0003	P	11.5	27.1
4	☐	10.000	10.697	513.35	0.0005	P	7.0	7.0
5	☐	100.000	101.492	4120.70	0.0042	P	7.8	1.5
6	☐	200.000	199.186	7892.41	0.0081	P	4.7	-0.4

y = 4.0337E-005 * x + 7.4969E-005
R = 0.9999
DL = 2.248 ppb
BEC = 1.859 ppb

Weight: <None>
Min Conc: <None>

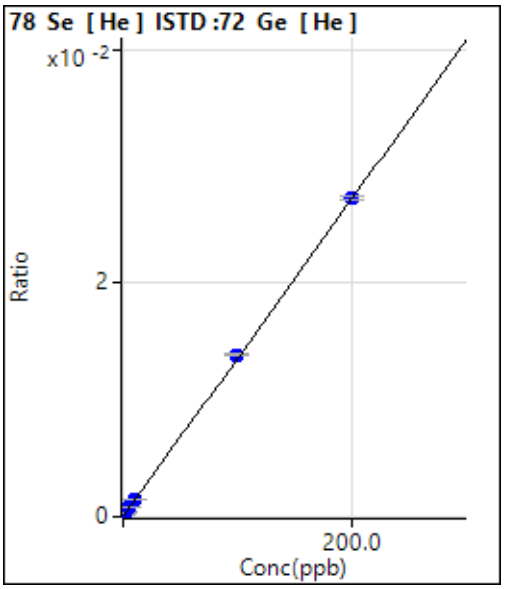
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16319.97	0.0045	P	3.2	
2	☐	2.000	1.964	17805.22	0.0049	P	2.2	-1.8
3	☐	5.000	4.774	19898.11	0.0056	P	2.7	-4.5
4	☐	10.000	10.228	24051.54	0.0068	P	1.1	2.3
5	☐	100.000	98.925	93174.56	0.0270	P	2.1	-1.1
6	☐	200.000	200.532	167600.48	0.0500	P	1.4	0.3

y = 2.2705E-004 * x + 0.0045
R = 1.0000
DL = 1.893 ppb
BEC = 19.83 ppb

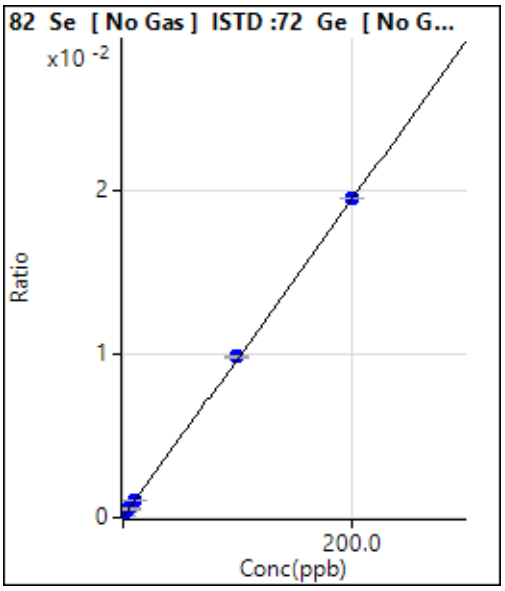
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	9.6	
2	☐	2.000	1.909	418.01	0.0004	P	5.2	-4.5
3	☐	5.000	4.559	782.02	0.0008	P	5.3	-8.8
4	☐	10.000	9.724	1492.09	0.0015	P	2.1	-2.8
5	☐	100.000	100.609	13671.52	0.0138	P	1.3	0.6
6	☐	200.000	199.721	26583.17	0.0273	P	1.7	-0.1

y = 1.3602E-004 * x + 1.4967E-004
R = 1.0000
DL = 0.3154 ppb
BEC = 1.1 ppb

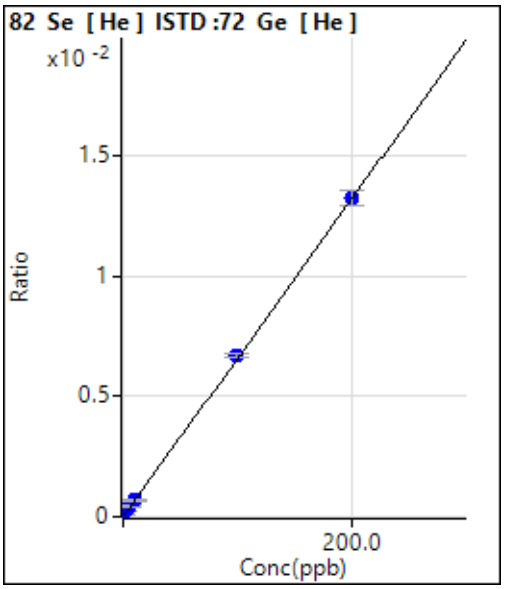
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	456.68	0.0001	P	5.8	
2	☐	2.000	1.884	1110.07	0.0003	P	8.5	-5.8
3	☐	5.000	4.376	1956.84	0.0005	P	16.8	-12.5
4	☐	10.000	9.841	3800.62	0.0011	P	3.4	-1.6
5	☐	100.000	100.091	33909.42	0.0098	P	1.1	0.1
6	☐	200.000	199.979	65250.04	0.0195	P	0.5	0.0

y = 9.6778E-005 * x + 1.2599E-004
R = 1.0000
DL = 0.228 ppb
BEC = 1.302 ppb

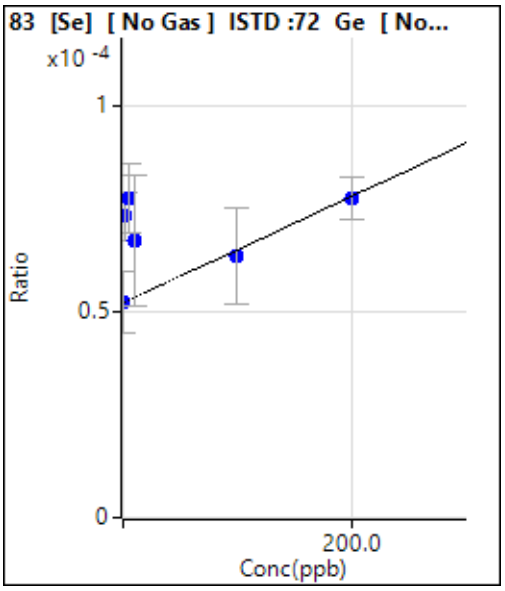
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	48.3	
2	☐	2.000	2.876	256.67	0.0003	P	20.3	43.8
3	☐	5.000	5.325	420.01	0.0004	P	14.6	6.5
4	☐	10.000	9.478	696.70	0.0007	P	6.5	-5.2
5	☐	100.000	100.664	6628.38	0.0067	P	2.2	0.7
6	☐	200.000	199.677	12889.65	0.0132	P	4.7	-0.2

y = 6.6026E-005 * x + 6.1791E-005
R = 1.0000
DL = 1.355 ppb
BEC = 0.9359 ppb

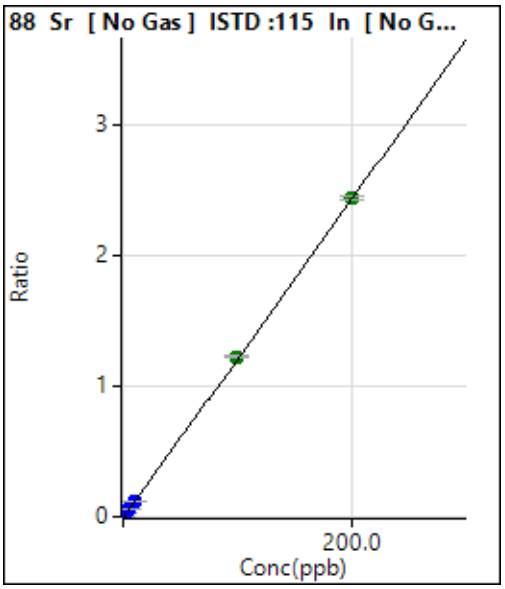
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0001	P	29.2	
2	☐	2.000	160.998	263.34	0.0001	P	15.7	7949.9
3	☐	5.000	195.136	276.67	0.0001	P	21.8	3802.7
4	☐	10.000	113.850	236.67	0.0001	P	47.4	1038.5
5	☐	100.000	87.172	220.01	0.0001	P	36.3	-12.8
6	☐	200.000	194.878	260.01	0.0001	P	13.6	-2.6

y = 1.2939E-007 * x + 5.2389E-005
R = 0.3384
DL = 354.2 ppb
BEC = 404.9 ppb

Weight: <None>
Min Conc: <None>

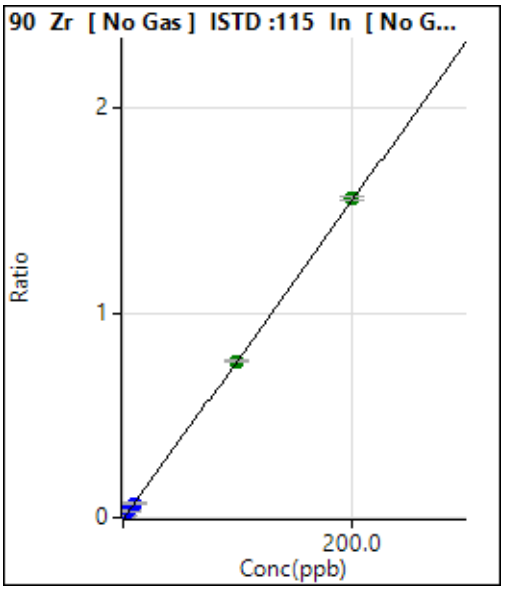


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2720.33	0.0006	P	1.3	
2	☐	2.000	1.918	115680.83	0.0240	P	3.6	-4.1
3	☐	5.000	4.674	274822.35	0.0577	P	2.7	-6.5
4	☐	10.000	9.606	558292.01	0.1179	P	1.2	-3.9
5	☐	100.000	100.334	5622582.41	1.2266	A	1.6	0.3
6	☐	200.000	199.862	10854979.42	2.4427	A	1.6	-0.1

y = 0.0122 * x + 5.6362E-004
R = 1.0000
DL = 0.001788 ppb
BEC = 0.04613 ppb

Weight: <None>
Min Conc: <None>

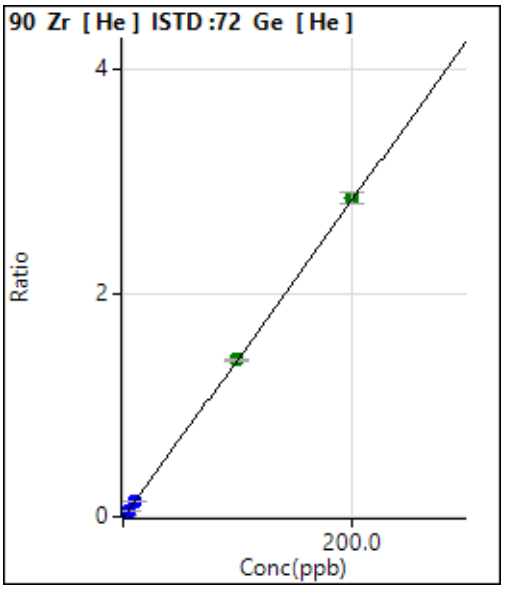
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1500.12	0.0003	P	4.5	
2	☐	2.000	1.579	60605.85	0.0126	P	3.5	-21.1
3	☐	5.000	4.224	157845.84	0.0331	P	1.6	-15.5
4	☐	10.000	9.031	333555.66	0.0705	P	1.3	-9.7
5	☐	100.000	98.493	3508521.30	0.7654	A	1.6	-1.5
6	☐	200.000	200.825	6933572.40	1.5603	A	1.7	0.4

y = 0.0078 * x + 3.1077E-004
R = 1.0000
DL = 0.005422 ppb
BEC = 0.04001 ppb

Weight: <None>
Min Conc: <None>

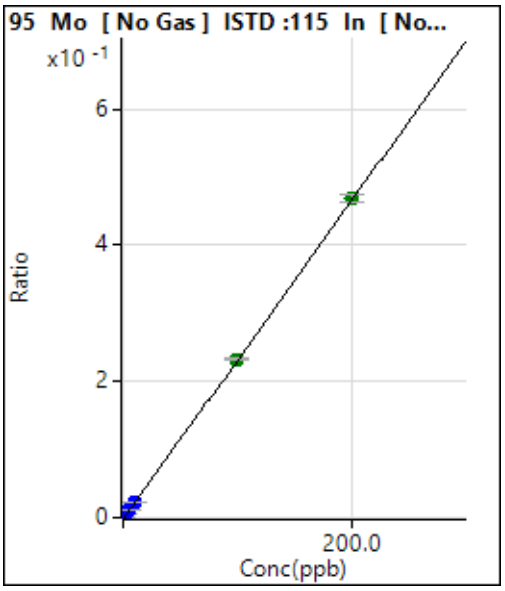


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1653.47	0.0016	P	2.9	
2	☐	2.000	1.616	25073.49	0.0246	P	0.4	-19.2
3	☐	5.000	4.022	59668.60	0.0587	P	3.2	-19.6
4	☐	10.000	9.094	132514.31	0.1308	P	0.9	-9.1
5	☐	100.000	98.692	1386536.54	1.4031	A	1.6	-1.3
6	☐	200.000	200.727	2775580.06	2.8520	A	3.3	0.4

y = 0.0142 * x + 0.0016
R = 1.0000
DL = 0.00979 ppb
BEC = 0.1137 ppb

Weight: <None>
Min Conc: <None>

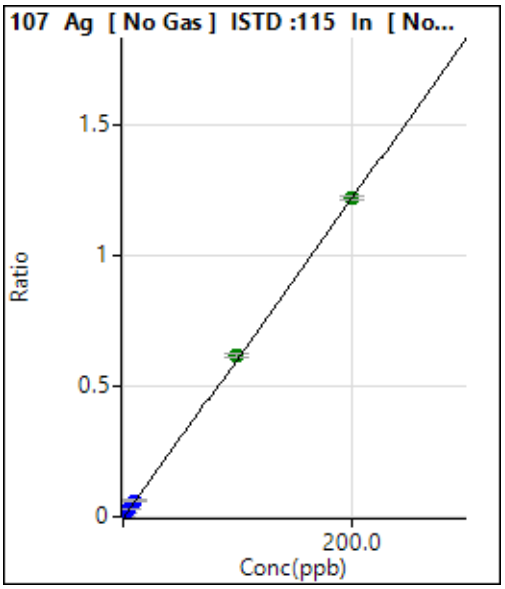
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0000	P	14.4	
2	☐	2.000	1.883	21400.67	0.0044	P	5.6	-5.8
3	☐	5.000	4.740	52997.70	0.0111	P	3.2	-5.2
4	☐	10.000	9.766	108289.74	0.0229	P	2.2	-2.3
5	☐	100.000	99.145	1063037.25	0.2319	A	1.5	-0.9
6	☐	200.000	200.447	2083280.91	0.4688	A	2.0	0.2

y = 0.0023 * x + 3.7283E-005
R = 1.0000
DL = 0.006897 ppb
BEC = 0.01594 ppb

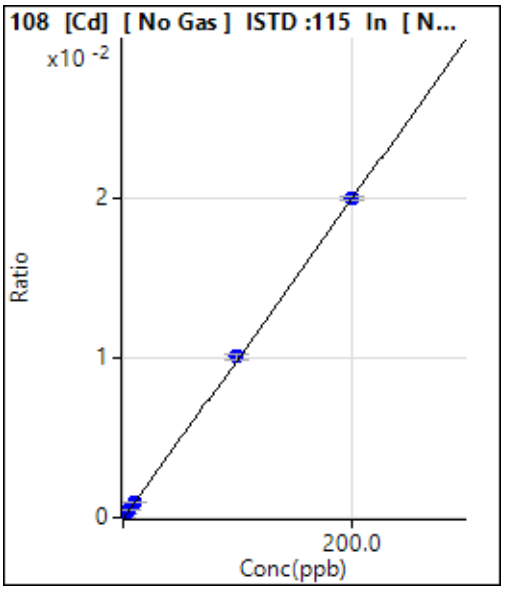
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	563.36	0.0001	P	19.7	
2	☐	2.000	1.982	59110.94	0.0123	P	5.8	-0.9
3	☐	5.000	4.989	146313.89	0.0307	P	2.5	-0.2
4	☐	10.000	10.156	295294.82	0.0624	P	2.2	1.6
5	☐	100.000	100.952	2837639.54	0.6190	A	2.0	1.0
6	☐	200.000	199.517	5436208.46	1.2233	A	1.6	-0.2

y = 0.0061 * x + 1.1667E-004
R = 1.0000
DL = 0.01124 ppb
BEC = 0.01903 ppb

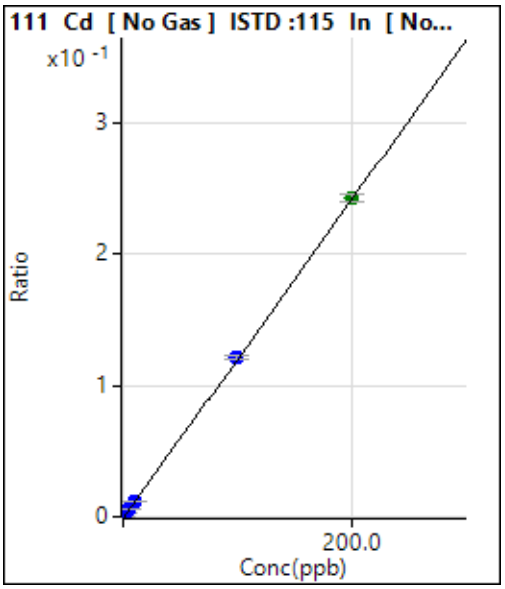
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.8	
2	☐	2.000	1.973	966.72	0.0002	P	10.2	-1.4
3	☐	5.000	4.587	2200.23	0.0005	P	7.8	-8.3
4	☐	10.000	9.878	4687.55	0.0010	P	4.8	-1.2
5	☐	100.000	100.823	46183.27	0.0101	P	3.3	0.8
6	☐	200.000	199.605	88623.15	0.0199	P	1.7	-0.2

y = 9.9895E-005 * x + 3.4585E-006
R = 1.0000
DL = 0.09532 ppb
BEC = 0.03462 ppb

Weight: <None>
Min Conc: <None>

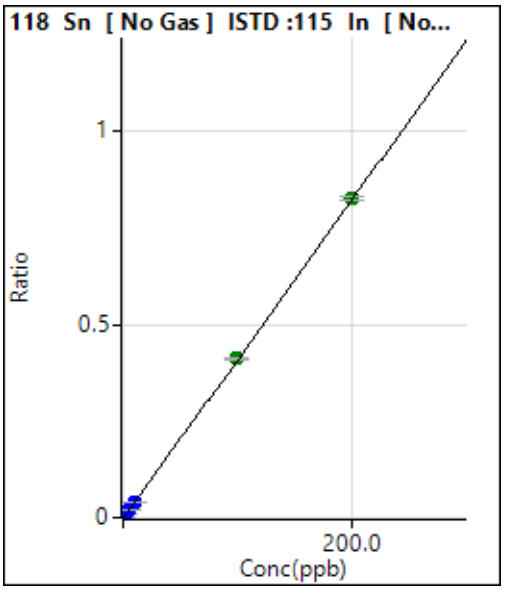


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	1767.2	
2	☐	2.000	1.989	11652.29	0.0024	P	7.3	-0.5
3	☐	5.000	4.895	28351.58	0.0059	P	3.0	-2.1
4	☐	10.000	9.976	57393.26	0.0121	P	1.1	-0.2
5	☐	100.000	99.788	555905.83	0.1213	P	1.9	-0.2
6	☐	200.000	200.110	1080698.31	0.2432	A	2.2	0.1

y = 0.0012 * x + 4.2489E-007
R = 1.0000
DL = 0.01854 ppb
BEC = 0.0003496 ppb

Weight: <None>
Min Conc: <None>

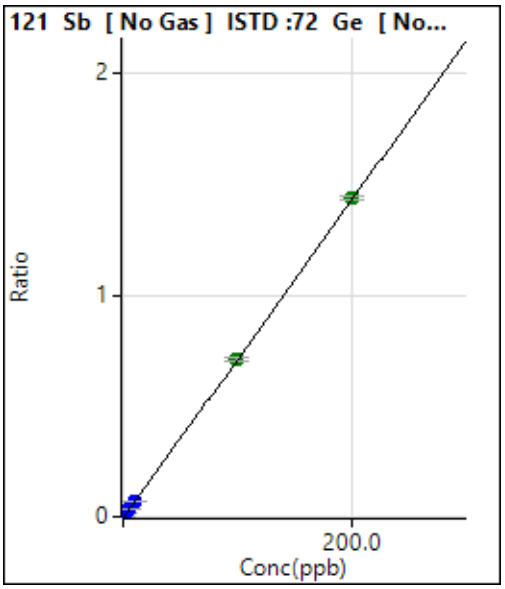
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5994.83	0.0012	P	4.0	
2	☐	2.000	1.988	45454.68	0.0094	P	2.0	-0.6
3	☐	5.000	4.816	100455.34	0.0211	P	3.8	-3.7
4	☐	10.000	9.731	195611.74	0.0413	P	2.3	-2.7
5	☐	100.000	99.480	1883908.35	0.4110	A	1.7	-0.5
6	☐	200.000	200.278	3671235.88	0.8261	A	1.5	0.1

y = 0.0041 * x + 0.0012
R = 1.0000
DL = 0.03613 ppb
BEC = 0.3015 ppb

Weight: <None>
Min Conc: <None>

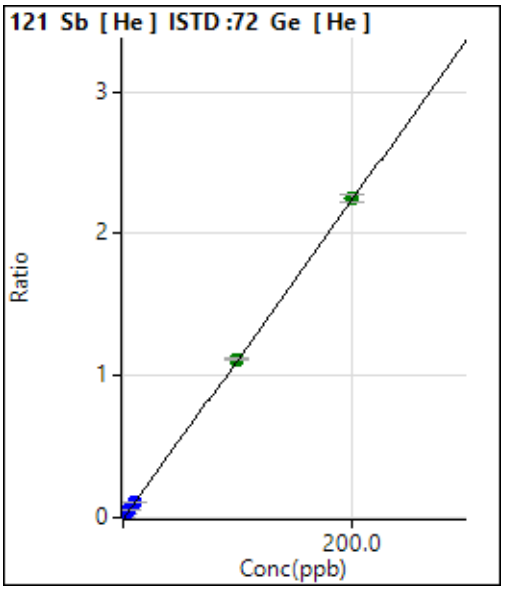


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	630.03	0.0002	P	21.1	
2	☐	2.000	1.992	52115.90	0.0145	P	3.5	-0.4
3	☐	5.000	4.865	125139.38	0.0351	P	2.2	-2.7
4	☐	10.000	9.981	253345.43	0.0719	P	2.1	-0.2
5	☐	100.000	99.149	2462252.41	0.7125	A	1.9	-0.9
6	☐	200.000	200.430	4824383.26	1.4402	A	1.0	0.2

y = 0.0072 * x + 1.7372E-004
R = 1.0000
DL = 0.01532 ppb
BEC = 0.02418 ppb

Weight: <None>
Min Conc: <None>

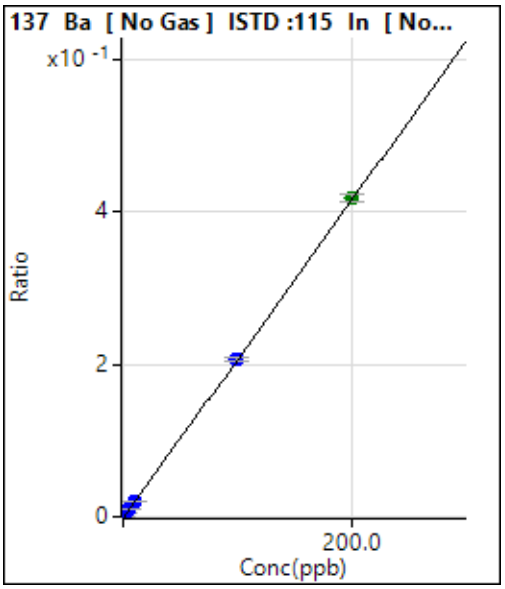
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	5.2	
2	☐	2.000	1.890	22001.94	0.0216	P	2.1	-5.5
3	☐	5.000	4.610	52915.74	0.0521	P	5.0	-7.8
4	☐	10.000	9.876	112712.84	0.1112	P	1.2	-1.2
5	☐	100.000	99.363	1102755.27	1.1159	A	1.4	-0.6
6	☐	200.000	200.336	2189283.67	2.2496	A	2.8	0.2

y = 0.0112 * x + 3.2553E-004
R = 1.0000
DL = 0.004501 ppb
BEC = 0.02899 ppb

Weight: <None>
Min Conc: <None>

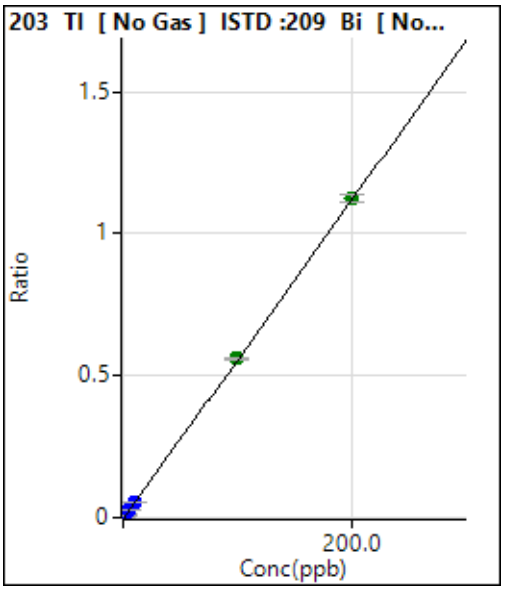


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	750.04	0.0002	P	8.0	
2	☐	2.000	2.225	23080.65	0.0048	P	3.5	11.3
3	☐	5.000	4.883	49202.37	0.0103	P	1.8	-2.3
4	☐	10.000	9.822	97567.53	0.0206	P	2.7	-1.8
5	☐	100.000	99.103	946776.08	0.2065	P	2.4	-0.9
6	☐	200.000	200.458	1855807.79	0.4176	A	2.3	0.2

y = 0.0021 * x + 1.5540E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.07462 ppb

Weight: <None>
Min Conc: <None>

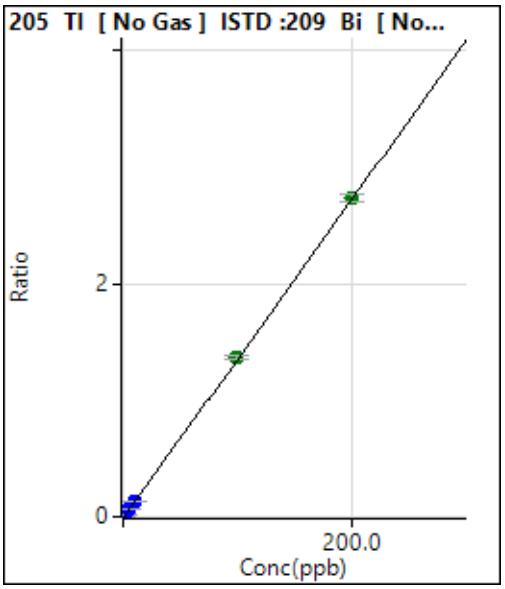
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	966.73	0.0002	P	15.3	
2	☐	2.000	1.759	50916.07	0.0101	P	2.4	-12.0
3	☐	5.000	4.852	137122.61	0.0275	P	0.8	-3.0
4	☐	10.000	9.607	270114.98	0.0542	P	1.3	-3.9
5	☐	100.000	99.642	2698179.02	0.5600	A	2.0	-0.4
6	☐	200.000	200.205	5248397.11	1.1250	A	2.0	0.1

y = 0.0056 * x + 1.9170E-004
R = 1.0000
DL = 0.01567 ppb
BEC = 0.03412 ppb

Weight: <None>
Min Conc: <None>

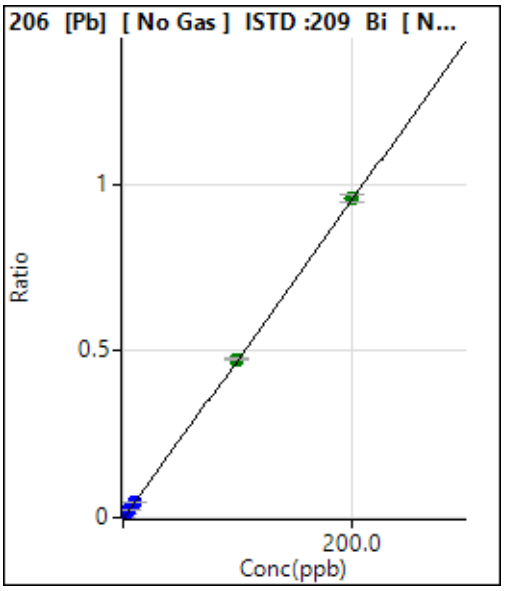


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2420.28	0.0005	P	10.6	
2	☐	2.000	1.718	121094.16	0.0240	P	2.2	-14.1
3	☐	5.000	4.694	322862.55	0.0646	P	2.3	-6.1
4	☐	10.000	9.378	641550.62	0.1287	P	1.4	-6.2
5	☐	100.000	99.843	6577152.19	1.3651	A	1.9	-0.2
6	☐	200.000	200.120	12762014.39	2.7357	A	2.3	0.1

y = 0.0137 * x + 4.8003E-004
R = 1.0000
DL = 0.01114 ppb
BEC = 0.03512 ppb

Weight: <None>
Min Conc: <None>

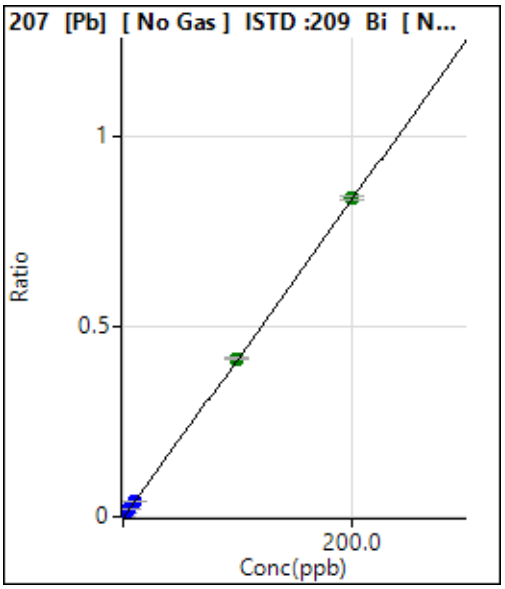
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.10	0.0003	P	12.9	
2	☐	2.000	1.931	48008.39	0.0095	P	2.5	-3.4
3	☐	5.000	4.813	116313.41	0.0233	P	2.4	-3.7
4	☐	10.000	9.862	236588.30	0.0474	P	1.1	-1.4
5	☐	100.000	99.202	2287999.70	0.4749	A	1.1	-0.8
6	☐	200.000	200.411	4474287.64	0.9591	A	2.4	0.2

y = 0.0048 * x + 2.5998E-004
R = 1.0000
DL = 0.02109 ppb
BEC = 0.05434 ppb

Weight: <None>
Min Conc: <None>

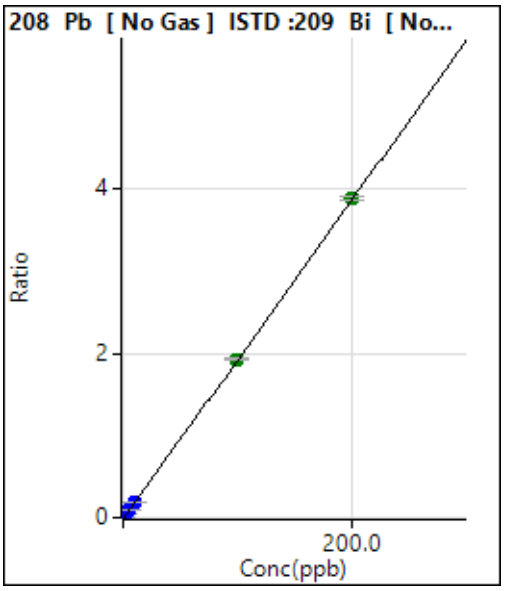


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.40	0.0002	P	18.4	
2	☐	2.000	1.990	43057.33	0.0085	P	3.7	-0.5
3	☐	5.000	4.830	101819.59	0.0204	P	2.3	-3.4
4	☐	10.000	9.895	207160.69	0.0415	P	0.8	-1.1
5	☐	100.000	99.405	2001749.35	0.4155	A	1.1	-0.6
6	☐	200.000	200.307	3904667.86	0.8370	A	1.4	0.2

y = 0.0042 * x + 2.0889E-004
R = 1.0000
DL = 0.02763 ppb
BEC = 0.05 ppb

Weight: <None>
Min Conc: <None>

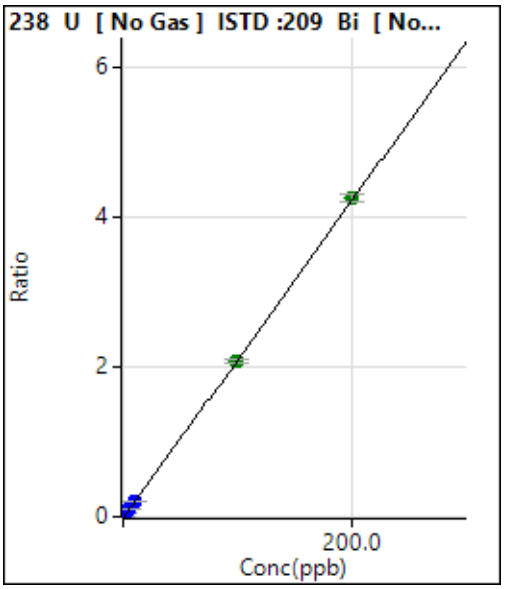
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4887.13	0.0010	P	5.0	
2	☐	2.000	1.935	194683.53	0.0385	P	2.2	-3.2
3	☐	5.000	4.764	466644.01	0.0934	P	2.5	-4.7
4	☐	10.000	9.801	953267.28	0.1912	P	1.1	-2.0
5	☐	100.000	99.403	9298822.52	1.9300	A	1.5	-0.6
6	☐	200.000	200.315	18139288.68	3.8883	A	1.8	0.2

y = 0.0194 * x + 9.6954E-004
R = 1.0000
DL = 0.007453 ppb
BEC = 0.04996 ppb

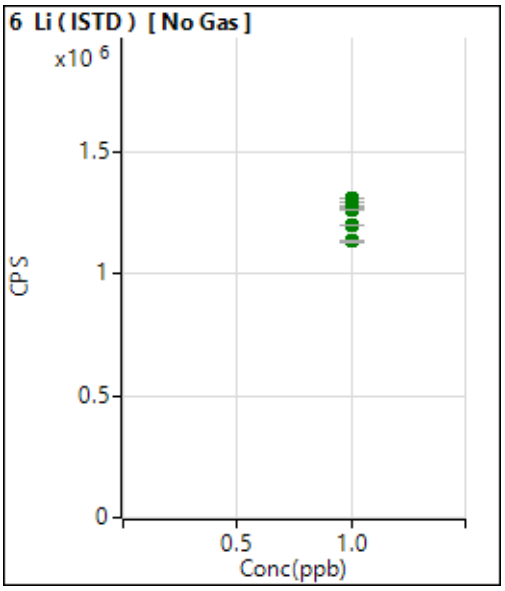
Weight: <None>
Min Conc: <None>



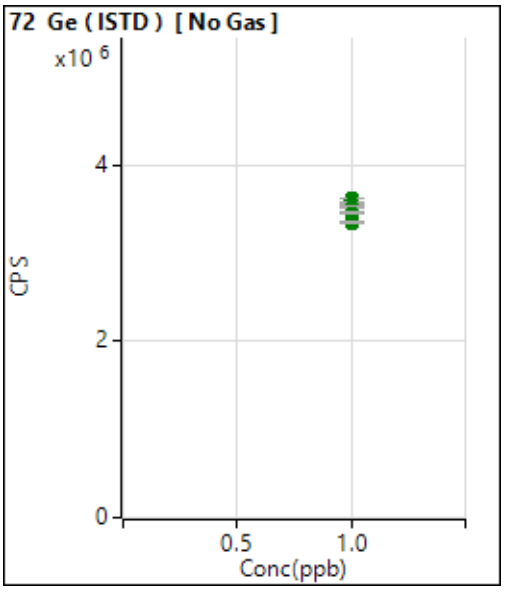
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3043.77	0.0006	P	2.2	
2	☐	2.000	1.849	201086.55	0.0398	P	2.5	-7.6
3	☐	5.000	4.635	493778.96	0.0989	P	1.9	-7.3
4	☐	10.000	9.453	1002347.72	0.2010	P	2.1	-5.5
5	☐	100.000	98.280	10041080.06	2.0841	A	1.9	-1.7
6	☐	200.000	200.898	19870878.87	4.2595	A	2.0	0.4

y = 0.0212 * x + 6.0384E-004
R = 1.0000
DL = 0.001907 ppb
BEC = 0.02848 ppb

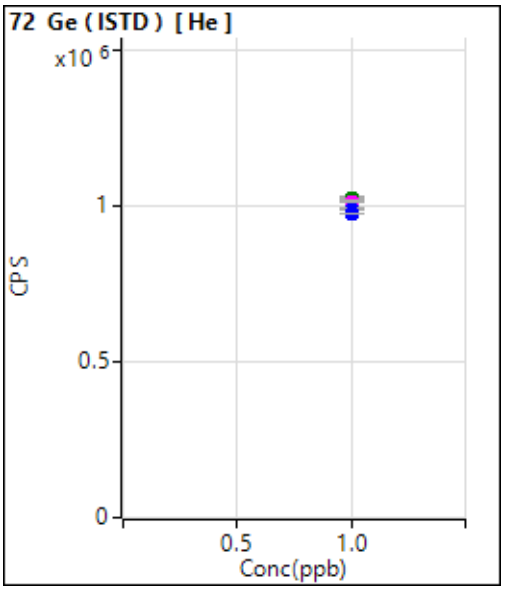
Weight: <None>
Min Conc: <None>



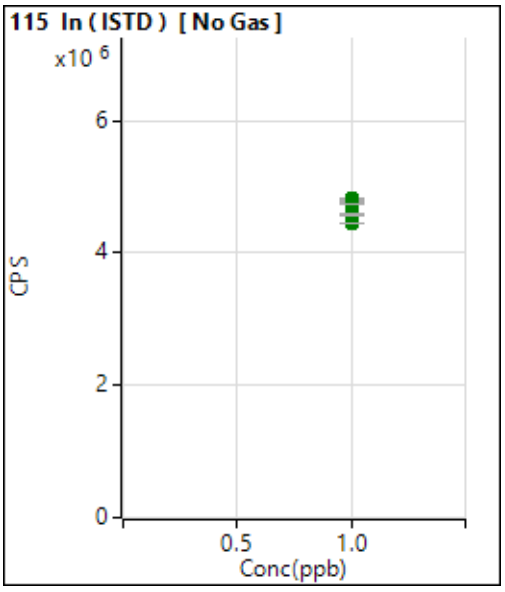
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1311505.51		A	0.4	
2	☐	1.000		1296398.91		A	0.1	
3	☐	1.000		1278167.75		A	0.4	
4	☐	1.000		1261653.96		A	0.2	
5	☐	1.000		1199454.34		A	0.2	
6	☐	1.000		1134408.06		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3625271.30		A	0.6	
2	☐	1.000		3598500.99		A	1.0	
3	☐	1.000		3562325.88		A	0.5	
4	☐	1.000		3524402.97		A	0.3	
5	☐	1.000		3455665.26		A	0.5	
6	☐	1.000		3349657.03		A	0.5	

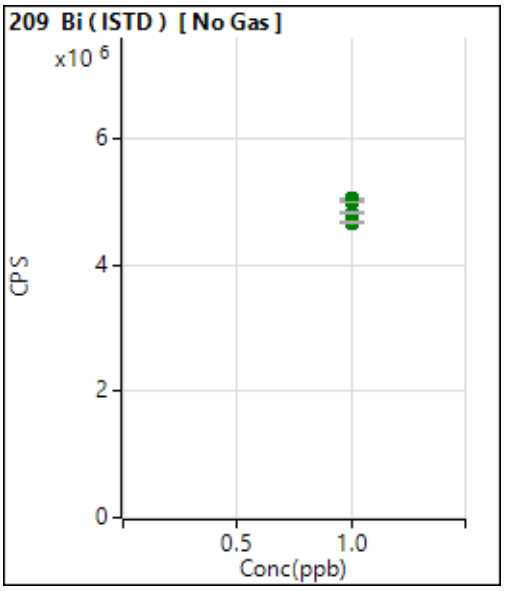


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1024230.63		A	0.8	
2	☐	1.000		1020789.39		M	1.2	
3	☐	1.000		1016078.66		A	0.7	
4	☐	1.000		1013447.93		M	0.6	
5	☐	1.000		988164.15		P	0.5	
6	☐	1.000		973176.52		P	0.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4826623.82		A	0.3	
2	☐	1.000		4819854.81		A	0.6	
3	☐	1.000		4765231.99		A	0.2	
4	☐	1.000		4733707.72		A	0.3	
5	☐	1.000		4584168.55		A	0.3	
6	☐	1.000		4443870.86		A	0.1	

Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5040995.86		A	0.4	
2	☐	1.000		5052988.15		A	0.5	
3	☐	1.000		4994818.26		A	0.3	
4	☐	1.000		4986532.84		A	0.2	
5	☐	1.000		4817898.16		A	0.5	
6	☐	1.000		4665364.62		A	0.7	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	023LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:19:59-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.058	2.058	3.26	107386	0.00	2	
Be	9	1	No Gas	2.069	2.069	4.75	9528	0.02	2	
V	51	2	He	1.886	1.886	2.91	21277	0.01	2	
Cr	52	2	He	2.168	2.168	1.89	27758	0.01	2	
Fe	56	2	He	219.280	219.280	3.01	1936430	0.01	200	
Se	78	2	He	2.080	2.080	2.81	433	0.48	2	
As	75	2	He	2.130	2.130	1.69	3197	0.07	2	
Ca	44	2	He	233.630	233.630	3.86	13277	1.76	200	
Na	23	2	He	290.982	290.982	2.07	485048	0.06	200	NewName Main CR1 Failed
Mg	24	2	He	222.535	222.535	1.46	186421	0.12	200	
K	39	2	He	210.372	210.372	3.79	308290	0.07	200	
Mn	55	2	He	2.208	2.208	2.05	16510	0.01	2	
Co	59	2	He	2.165	2.165	2.53	30648	0.01	2	
Ni	60	2	He	2.300	2.300	0.84	8539	0.03	2	
Cu	63	2	He	2.318	2.318	2.30	22569	0.01	2	
Zn	66	2	He	2.552	2.552	3.62	5508	0.05	2	
Al	27	2	He	4.397	4.397	8.43	3847	0.11	2	NewName Main CR1 Failed
B	11	1	No Gas	11.993	11.993	1.49	48012	0.02	10	
Al	27	1	No Gas	3.973	3.973	7.84	140242	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	11.041	11.041	6.42	512457	0.00	10	
Ag	107	1	No Gas	2.120	2.120	3.75	61957	0.00	2	
Cd	111	1	No Gas	2.080	2.080	2.20	11945	0.02	2	
Sr	88	1	No Gas	2.276	2.276	2.00	134066	0.00	2	
Mo	95	1	No Gas	2.056	2.056	1.04	22903	0.01	2	
Sn	118	1	No Gas	2.160	2.160	3.63	47920	0.00	2	
Sb	121	1	No Gas	2.139	2.139	1.53	54552	0.00	2	
Ba	137	1	No Gas	2.393	2.393	2.79	24279	0.01	2	
Tl	205	1	No Gas	1.842	1.842	0.93	127557	0.00	2	
Tl	203	1	No Gas	1.915	1.915	2.20	54454	0.00	2	
Pb	208	1	No Gas	2.078	2.078	1.94	205375	0.00	2	
U	238	1	No Gas	1.966	1.966	2.01	210215	0.00	2	
Ca	43	2	He	266.477	266.477	18.95	873	30.51	200	NewName Main CR1 Failed
Sb	121	2	He	2.164	2.164	3.98	24663	0.01	2	
Ti	47	2	He	2.147	2.147	6.18	663	0.32	200	
Cu	63	1	No Gas	2.237	2.237	3.28	46586	0.00	2	
Se	82	1	No Gas	2.358	2.358	8.92	1243	0.19	2	
Zr	90	1	No Gas	1.793	1.793	3.66	67274	0.00	2	
Zr	90	2	He	1.900	1.900	2.82	28644	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1239564	0.51	1311506	94.51	70	120	
Ge	72	2	He	1001743	0.68	1024231	97.80	70	120	
Ge	72	1	No Gas	3510359	0.90	3625271	96.83	70	120	
In	115	1	No Gas	4725931	0.74	4826624	97.91	70	120	
Bi	209	1	No Gas	4972731	0.53	5040996	98.65	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	024LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:22:23-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.964	4.964	2.27	159916	0.00	5	
Be	9	1	No Gas	5.026	5.026	3.85	22855	0.02	5	
V	51	2	He	4.977	4.977	1.38	46220	0.01	5	
Cr	52	2	He	5.226	5.226	3.11	55639	0.01	5	
Fe	56	2	He	521.772	521.772	2.10	4629401	0.01	500	
Se	78	2	He	4.774	4.774	9.29	808	0.59	5	
As	75	2	He	5.154	5.154	3.32	7422	0.07	5	
Ca	44	2	He	519.756	519.756	1.64	28770	1.81	500	
Na	23	2	He	574.257	574.257	1.75	874163	0.07	500	
Mg	24	2	He	527.396	527.396	1.51	444332	0.12	500	
K	39	2	He	509.147	509.147	1.18	618180	0.08	500	
Mn	55	2	He	5.335	5.335	2.23	39156	0.01	5	
Co	59	2	He	5.271	5.271	1.64	74628	0.01	5	
Ni	60	2	He	5.393	5.393	4.33	19781	0.03	5	
Cu	63	2	He	5.221	5.221	4.01	50530	0.01	5	
Zn	66	2	He	5.401	5.401	1.57	10571	0.05	5	
Al	27	2	He	6.208	6.208	12.68	4874	0.13	5	
B	11	1	No Gas	25.581	25.581	1.09	82041	0.03	25	
Al	27	1	No Gas	5.625	5.625	2.31	174372	0.00	5	
Si	28	1	No Gas	25.790	25.790	0.80	667378	0.00	25	
Ag	107	1	No Gas	5.202	5.202	1.98	152259	0.00	5	
Cd	111	1	No Gas	5.007	5.007	1.50	28946	0.02	5	
Sr	88	1	No Gas	5.154	5.154	1.44	302243	0.00	5	
Mo	95	1	No Gas	4.974	4.974	2.07	55511	0.01	5	
Sn	118	1	No Gas	5.094	5.094	1.21	105705	0.00	5	
Sb	121	1	No Gas	5.176	5.176	0.87	131070	0.00	5	
Ba	137	1	No Gas	5.133	5.133	2.26	51585	0.01	5	
Tl	205	1	No Gas	4.951	4.951	1.59	342706	0.00	5	
Tl	203	1	No Gas	5.031	5.031	0.85	143078	0.00	5	
Pb	208	1	No Gas	5.053	5.053	1.83	497930	0.00	5	
U	238	1	No Gas	4.859	4.859	0.72	520948	0.00	5	
Ca	43	2	He	522.554	522.554	11.54	1683	31.04	500	
Sb	121	2	He	5.175	5.175	0.86	59078	0.01	5	
Ti	47	2	He	4.893	4.893	2.72	1517	0.32	5	
Cu	63	1	No Gas	5.351	5.351	0.30	107881	0.00	5	
Se	82	1	No Gas	4.873	4.873	11.40	2097	0.23	5	
Zr	90	1	No Gas	4.461	4.461	0.76	166289	0.00	5	
Zr	90	2	He	4.634	4.634	0.95	68158	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1234538	0.60	1311506	94.13	70	120	

Sample Report

Ge	72	2	He	1011062	0.80	1024231	98.71	70	120	
Ge	72	1	No Gas	3508086	0.50	3625271	96.77	70	120	
In	115	1	No Gas	4756222	0.73	4826624	98.54	70	120	
Bi	209	1	No Gas	5028036	0.84	5040996	99.74	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	025_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:24:47-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.019	82.1	70126	0.4	0.5	
Be	9	1	No Gas	0.051	17.1	373	10.8	0.5	
V	51	2	He	-0.122	-6.6	5378	2.4	2.5	
Cr	52	2	He	0.136	19.5	9624	2.5	2.5	
Fe	56	2	He	10.257	3.0	105736	3.8	100	
Se	78	2	He	-0.048	-158.3	144	6.4	1	
As	75	2	He	0.072	52.3	371	15.4	2.5	
Ca	44	2	He	58.325	5.9	3964	3.9	100	
Na	23	2	He	65.923	0.3	183184	1.3	100	
Mg	24	2	He	16.534	2.9	14988	2.3	100	
K	39	2	He	4.179	44.3	98835	0.8	100	
Mn	55	2	He	0.254	4.7	2604	3.2	2.5	
Co	59	2	He	0.075	3.8	1513	3.3	2.5	
Ni	60	2	He	0.214	20.8	1087	13.6	2.5	
Cu	63	2	He	0.129	9.7	1847	5.3	1	
Zn	66	2	He	0.858	3.8	2564	2.5	2.5	
Al	27	2	He	3.346	6.6	3294	3.1	5	
B	11	1	No Gas	1.394	8.6	21228	1.7	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	2.814	4.5	116321	1.5	5	
Si	28	1	No Gas	4.852	9.7	447496	0.4	10	
Ag	107	1	No Gas	0.056	15.4	2180	11.6	2.5	
Cd	111	1	No Gas	0.054	14.1	317	13.8	1	
Sr	88	1	No Gas	0.332	3.8	21955	3.5	2.5	
Mo	95	1	No Gas	0.071	18.3	970	14.9	2.5	
Sn	118	1	No Gas	0.132	16.2	8483	5.0	5	
Sb	121	1	No Gas	0.078	14.3	2590	11.7	2.5	
Ba	137	1	No Gas	0.306	10.8	3771	8.5	2.5	
Tl	205	1	No Gas	0.051	5.7	5875	3.1	1	
Tl	203	1	No Gas	0.055	9.0	2490	4.6	1	
Pb	208	1	No Gas	0.061	6.2	10709	2.9	2.5	
U	238	1	No Gas	0.049	7.4	8196	4.7	2.5	
Ca	43	2	He	37.637	61.1	163	44.3	100	
Sb	121	2	He	0.072	2.2	1140	1.5	2.5	
Ti	47	2	He	0.098	18.7	37	15.7	2.5	
Se	82	1	No Gas	-0.135	-119.9	397	13.9	1	
Zr	90	1	No Gas	0.140	12.9	6665	9.9	2.5	
Zr	90	2	He	0.125	7.9	3404	3.0	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1240530	0.37	1311506	94.59	70	120	
Ge	72	2	He	1006196	1.20	1024231	98.24	70	120	
Ge	72	1	No Gas	3511854	0.77	3625271	96.87	70	120	
In	115	1	No Gas	4755517	0.23	4826624	98.53	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	4983861	0.91	5040996	98.87	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	027ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:31:37-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.402	16.7	73158	2.5	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.040	24.2	310	13.8	0	ICSA Main CR1 Failed
V	51	2	He	0.108	12.3	6981	1.1	0	ICSA Main CR1 Failed
Cr	52	2	He	0.887	5.2	15866	2.1	0	ICSA Main CR1 Failed
Fe	56	2	He	104065.120	1.0	887599560	0.8	0	
Se	78	2	He	0.045	259.2	152	10.4	0	ICSA Main CR1 Failed
As	75	2	He	0.466	7.2	886	4.8	0	ICSA Main CR1 Failed
Ca	44	2	He	103526.129	1.5	5363905	1.3	0	
Na	23	2	He	104988.990	1.0	137562371	0.8	0	
Mg	24	2	He	104432.673	1.9	84640867	1.7	0	
K	39	2	He	104873.469	1.7	104026042	1.5	0	
Mn	55	2	He	1.903	2.2	13957	2.2	0	ICSA Main CR1 Failed
Co	59	2	He	1.053	2.0	14745	2.4	0	ICSA Main CR1 Failed
Ni	60	2	He	1.173	3.6	4394	3.0	0	ICSA Main CR1 Failed
Cu	63	2	He	0.745	3.0	7475	2.9	0	ICSA Main CR1 Failed
Zn	66	2	He	3.199	4.7	6458	3.5	0	ICSA Main CR1 Failed
Al	27	2	He	107490.812	2.0	56576767	1.9	0	
B	11	1	No Gas	2.226	5.9	22126	0.6	0	
Al	27	1	No Gas	99157.656	2.8	1956115918	1.4	0	
Si	28	1	No Gas	31.187	3.7	690922	3.0	0	
Ag	107	1	No Gas	0.037	8.5	1490	4.0	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.767	8.7	4062	9.9	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.951	1.5	53034	0.2	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2052.198	2.3	20893881	0.8	0	
Sn	118	1	No Gas	0.214	15.6	9240	5.2	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.104	14.9	3070	10.7	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.466	3.1	4904	2.5	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.017	24.4	3194	9.1	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.023	4.9	1420	0.7	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.922	1.6	84008	0.2	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.020	6.7	4594	2.6	0	ICSA Main CR1 Failed
Ca	43	2	He	101572.100	1.7	306977	1.4	0	
Sb	121	2	He	0.091	22.4	1313	16.6	0	ICSA Main CR1 Failed
Ti	47	2	He	2098.088	1.3	624667	1.1	0	
Se	82	1	No Gas	0.192	51.6	483	5.2	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1176516	1.47	1311506	89.71	70	120	
Ge	72	2	He	975218	0.45	1024231	95.21	70	120	
Ge	72	1	No Gas	3346497	1.41	3625271	92.31	70	120	
In	115	1	No Gas	4354521	1.63	4826624	90.22	70	120	
Bi	209	1	No Gas	4453690	1.29	5040996	88.35	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	028ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:34:07-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	100.769	2.436	1853517	1.25	100	100.8	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	94.717	3.401	416224	2.31	100	94.7	80	120	
V	51	2	He	106.085	3.356	842507	1.92	100	106.1	80	120	
Cr	52	2	He	105.779	3.691	948915	2.30	100	105.8	80	120	
Fe	56	2	He	113019.480	3.191	984034252	1.76	100	113019.5	80	120	
Se	78	2	He	109.393	3.572	14962	2.24	100	109.4	80	120	
As	75	2	He	109.267	2.246	149541	0.79	100	109.3	80	120	
Ca	44	2	He	112979.751	2.893	5975697	1.47	100	112979.8	80	120	
Na	23	2	He	115465.714	3.136	154430901	1.79	100	115465.7	80	120	
Mg	24	2	He	113598.350	3.360	93984719	1.95	100	113598.3	80	120	
K	39	2	He	114484.776	2.867	115918375	1.41	100	114484.8	80	120	
Mn	55	2	He	105.914	3.648	750712	2.27	100	105.9	80	120	
Co	59	2	He	104.674	3.523	1450416	2.11	100	104.7	80	120	
Ni	60	2	He	102.423	3.723	364097	2.36	100	102.4	80	120	
Cu	63	2	He	101.031	2.656	951520	1.24	100	101.0	80	120	
Zn	66	2	He	105.865	1.906	184523	0.72	100	105.9	80	120	
Al	27	2	He	105915.734	3.164	56908519	1.77	100	105915.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	511.520	2.427	1269901	1.29	100	511.5	80	120	
Al	27	1	No Gas	97956.378	1.878	1988718157	1.32	100	97956.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	548.728	1.350	6056455	0.76	100	548.7	80	120	
Ag	107	1	No Gas	101.051	2.852	2797575	2.06	100	101.1	80	120	
Cd	111	1	No Gas	102.650	2.680	563220	1.81	100	102.6	80	120	
Sr	88	1	No Gas	106.801	2.337	5894592	1.52	100	106.8	80	120	
Mo	95	1	No Gas	2124.316	2.788	22429511	1.94	100	2124.3	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	104.020	2.333	1939952	1.47	100	104.0	80	120	
Sb	121	1	No Gas	103.787	2.104	2568058	1.54	100	103.8	80	120	
Ba	137	1	No Gas	103.756	2.129	976293	1.52	100	103.8	80	120	
Tl	205	1	No Gas	93.558	2.054	5862032	1.94	100	93.6	80	120	
Tl	203	1	No Gas	93.195	2.174	2400291	1.98	100	93.2	80	120	
Pb	208	1	No Gas	106.785	1.811	9500810	1.71	100	106.8	80	120	
U	238	1	No Gas	107.975	1.531	10492153	1.36	100	108.0	80	120	
Ca	43	2	He	109610.718	2.886	338178	1.49	100	109610.7	80	120	
Sb	121	2	He	104.464	4.158	1167849	2.94	100	104.5	80	120	
Ti	47	2	He	2170.275	3.062	659619	1.61	100	2170.3	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	99.202	1.725	1920038	1.17	100	99.2	80	120	
Se	82	1	No Gas	108.277	2.461	36513	1.87	100	108.3	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1200658	1.09	1311506	91.55	70	120	
Ge	72	2	He	995805	1.48	1024231	97.22	70	120	
Ge	72	1	No Gas	3443358	0.56	3625271	94.98	70	120	
In	115	1	No Gas	4515532	0.91	4826624	93.55	70	120	
Bi	209	1	No Gas	4582613	0.39	5040996	90.91	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	033_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:52:37-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.726	2.870	1663970	2.86	100	96.7	90	110	
Be	9	1	No Gas	97.928	2.434	401883	2.51	100	97.9	90	110	
V	51	2	He	98.999	1.916	775883	2.06	100	99.0	90	110	
Cr	52	2	He	99.945	1.702	884798	2.05	100	99.9	90	110	
Fe	56	2	He	9923.979	1.472	85234640	1.54	10000	99.2	90	110	
Se	78	2	He	100.015	2.490	13503	2.16	100	100.0	90	110	
As	75	2	He	99.217	1.186	133935	1.17	100	99.2	90	110	
Ca	44	2	He	9716.968	1.485	507644	1.62	10000	97.2	90	110	
Na	23	2	He	9729.978	1.953	12918961	2.02	10000	97.3	90	110	
Mg	24	2	He	9784.549	1.429	7985408	1.63	10000	97.8	90	110	
K	39	2	He	9800.020	1.498	9871014	1.78	10000	98.0	90	110	
Mn	55	2	He	99.572	1.342	696153	1.40	100	99.6	90	110	
Co	59	2	He	100.578	2.109	1374603	2.12	100	100.6	90	110	
Ni	60	2	He	100.144	1.464	351128	1.45	100	100.1	90	110	
Cu	63	2	He	100.404	2.290	932584	2.16	100	100.4	90	110	
Zn	66	2	He	100.642	2.867	173040	2.81	100	100.6	90	110	
Al	27	2	He	99.470	1.525	54151	1.29	100	99.5	90	110	
B	11	1	No Gas	482.612	1.755	1119759	1.84	500	96.5	90	110	
Al	27	1	No Gas	97.131	3.383	1995640	2.57	100	97.1	90	110	
Si	28	1	No Gas	477.567	3.727	5234200	2.74	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.902	2.840	2820332	2.55	100	99.9	90	110	
Cd	111	1	No Gas	97.830	2.953	547369	2.71	100	97.8	90	110	
Sr	88	1	No Gas	97.380	2.598	5480784	2.32	100	97.4	90	110	
Mo	95	1	No Gas	96.338	3.660	1037369	3.27	100	96.3	90	110	
Sn	118	1	No Gas	99.055	2.263	1884031	1.91	100	99.1	90	110	
Sb	121	1	No Gas	100.677	3.173	2450413	2.45	100	100.7	90	110	
Ba	137	1	No Gas	97.217	2.728	932797	2.35	100	97.2	90	110	
Tl	205	1	No Gas	101.506	2.816	6721182	2.40	100	101.5	90	110	
Tl	203	1	No Gas	100.915	3.127	2746732	2.71	100	100.9	90	110	
Pb	208	1	No Gas	98.773	2.421	9287785	2.02	100	98.8	90	110	
U	238	1	No Gas	96.435	2.148	9903843	1.75	100	96.4	90	110	
Ca	43	2	He	10104.404	5.433	30784	5.22	10000	101.0	90	110	
Sb	121	2	He	98.690	2.313	1088253	2.41	100	98.7	90	110	
Ti	47	2	He	98.974	1.081	29675	1.41	100	99.0	90	110	
Cu	63	1	No Gas	99.561	2.826	1895488	2.16	100	99.6	90	110	
Se	82	1	No Gas	96.843	1.521	32172	1.13	100	96.8	90	110	
Zr	90	1	No Gas	83.327	3.431	2981302	3.11	100	83.3	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	84.218	1.715	1175805	1.86	100	84.2	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1121003	0.17	1311506	85.47	70	120	
Ge	72	2	He	981848	0.63	1024231	95.86	70	120	
Ge	72	1	No Gas	3387313	0.73	3625271	93.44	70	120	
In	115	1	No Gas	4604167	0.52	4826624	95.39	70	120	
Bi	209	1	No Gas	4843283	0.42	5040996	96.08	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	034_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:55:01-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.019	155.0	67482	0.5	0.5	
Be	9	1	No Gas	0.035	28.1	292	15.0	0.5	
V	51	2	He	-0.493	-2.4	2400	4.2	2.5	
Cr	52	2	He	0.132	60.3	9510	7.7	2.5	
Fe	56	2	He	4.838	11.2	57566	7.9	100	
Se	78	2	He	0.029	158.3	153	4.0	2	
As	75	2	He	0.035	23.8	317	3.8	2.5	
Ca	44	2	He	19.084	12.1	1853	6.9	100	
Na	23	2	He	9.514	11.8	106153	1.4	100	
Mg	24	2	He	0.947	20.0	1940	7.9	100	
K	39	2	He	6.896	4.3	100849	0.5	100	
Mn	55	2	He	0.571	0.9	4834	0.7	2.5	
Co	59	2	He	0.021	45.7	750	17.6	2.5	
Ni	60	2	He	0.518	15.3	2164	13.3	2.5	
Cu	63	2	He	0.148	3.4	2014	2.7	2	
Zn	66	2	He	3.089	4.2	6422	3.1	2.5	CCB Main CR1 Failed
Al	27	2	He	5.124	5.4	4227	3.4	5	CCB Main CR1 Failed
B	11	1	No Gas	1.611	38.1	20959	7.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	4.772	2.1	156667	1.3	5	
Si	28	1	No Gas	-1.933	-7.9	375523	0.4	10	
Ag	107	1	No Gas	0.485	20.1	14558	19.7	2.5	
Cd	111	1	No Gas	0.001	741.3	5	435.9	1	
Sr	88	1	No Gas	0.000	-946.6	2630	7.3	2.5	
Mo	95	1	No Gas	0.120	17.9	1500	15.6	2.5	
Sn	118	1	No Gas	0.201	11.7	9744	4.3	5	
Sb	121	1	No Gas	0.194	5.4	5488	4.8	2.5	
Ba	137	1	No Gas	0.012	56.8	847	7.9	2.5	
Tl	205	1	No Gas	0.053	40.7	5992	25.5	1	
Tl	203	1	No Gas	0.052	37.2	2404	23.4	1	
Pb	208	1	No Gas	0.022	10.3	6914	4.0	2.5	
U	238	1	No Gas	0.009	38.2	3944	8.1	2.5	
Ca	43	2	He	23.033	66.2	117	40.5	100	
Sb	121	2	He	0.179	3.6	2337	3.5	2.5	
Ti	47	2	He	0.077	127.7	30	100.0	2.5	
Cu	63	1	No Gas	0.137	14.3	5188	7.4	2.5	
Se	82	1	No Gas	-0.320	-50.9	333	16.5	2	
Zr	90	1	No Gas	0.089	12.6	4731	8.4	2.5	
Zr	90	2	He	0.066	5.3	2554	1.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1193841	0.29	1311506	91.03	70	120	
Ge	72	2	He	998489	0.38	1024231	97.49	70	120	
Ge	72	1	No Gas	3507060	0.11	3625271	96.74	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4705548	0.37	4826624	97.49	70	120	
Bi	209	1	No Gas	4980439	1.04	5040996	98.80	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:15:58-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 213798
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	3.192	15.958	3.00	135255	0.00	2000	
Be	9	1	No Gas	0.004	0.021	48.60	172	0.00	2000	
V	51	2	He	0.152	0.759	9.35	7409	0.00	2000	
Cr	52	2	He	-0.144	-0.721	-24.68	6965	0.00	2000	
Fe	56	2	He	47.713	238.564	2.03	426857	0.01	200000	
Se	78	2	He	0.172	0.858	61.67	171	0.10	2000	
As	75	2	He	0.106	0.529	41.73	409	0.03	2000	
Ca	44	2	He	3426.752	17133.760	1.53	180434	1.90	200000	
Na	23	2	He	39831.359	199156.797	1.71	52857528	0.08	200000	
Mg	24	2	He	1892.473	9462.366	1.46	1552923	0.12	200000	
K	39	2	He	243.842	1219.212	3.11	337220	0.07	200000	
Mn	55	2	He	59.724	298.622	4.95	419874	0.01	2000	
Co	59	2	He	0.281	1.407	11.38	4318	0.01	2000	
Ni	60	2	He	0.490	2.451	7.59	2040	0.02	2000	
Cu	63	2	He	0.140	0.701	5.97	1917	0.01	2000	
Zn	66	2	He	0.801	4.005	7.70	2417	0.03	2000	
Al	27	2	He	0.698	3.492	46.78	1820	0.04	2000	
B	11	1	No Gas	0.338	1.691	18.45	19570	0.00	2000	
Al	27	1	No Gas	0.406	2.031	41.33	66028	0.00	2000	
Si	28	1	No Gas	5116.943	25584.714	2.49	53933068	0.01	2000	>LDR
Ag	107	1	No Gas	0.091	0.453	34.15	3034	0.00	2000	
Cd	111	1	No Gas	0.022	0.112	58.23	125	0.02	2000	
Sr	88	1	No Gas	53.301	266.504	2.52	2939345	0.00	2000	
Mo	95	1	No Gas	0.047	0.233	12.50	660	0.01	2000	
Sn	118	1	No Gas	-0.098	-0.489	-7.44	3784	0.00	2000	
Sb	121	1	No Gas	0.041	0.205	24.20	1633	0.00	2000	
Ba	137	1	No Gas	41.913	209.567	2.31	394298	0.01	2000	
Tl	205	1	No Gas	0.000	0.000	-16759.67	2210	0.00	2000	
Tl	203	1	No Gas	0.005	0.023	76.92	1000	0.00	2000	
Pb	208	1	No Gas	0.133	0.663	1.25	16321	0.00	2000	
U	238	1	No Gas	0.122	0.612	3.52	14729	0.00	2000	
Ca	43	2	He	3421.550	17107.751	5.65	10504	32.57	200000	
Sb	121	2	He	0.037	0.183	13.46	727	0.01	2000	
Ti	47	2	He	0.277	1.386	42.58	90	0.31	2000	
Cu	63	1	No Gas	0.511	2.553	6.13	12479	0.00	2000	
Ca	44	1	No Gas	3375.444	16877.220	2.57	2678437	0.13	200000	
Zn	66	1	No Gas	0.953	4.765	9.97	7352	0.01	2000	
Se	82	1	No Gas	-0.118	-0.592	-269.93	400	-0.03	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1308436	0.37	1311506	99.77	70	120	
Ge	72	2	He	986673	0.49	1024231	96.33	70	120	
Ge	72	1	No Gas	3488473	1.30	3625271	96.23	70	120	

Sample Report

In	115	1	No Gas	4509714	0.81	4826624	93.43	70	120	
Bi	209	1	No Gas	4605533	0.82	5040996	91.36	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:18:22-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	15.975	15.975	1.28	399778	0.00	2000	
Be	9	1	No Gas	103.992	103.992	1.67	521055	0.02	2000	
V	51	2	He	108.074	108.074	1.24	791272	0.01	2000	
Cr	52	2	He	108.451	108.451	1.57	896865	0.01	2000	
Fe	56	2	He	11192.131	11192.131	1.04	89861892	0.01	200000	
Se	78	2	He	115.767	115.767	1.85	14591	0.79	2000	
As	75	2	He	116.198	116.198	1.23	146598	0.08	2000	
Ca	44	2	He	29136.952	29136.952	1.98	1421529	2.05	200000	
Na	23	2	He	214109.052	214109.052	1.50	263954589	0.08	200000	>LDR
Mg	24	2	He	21264.701	21264.701	1.53	16222373	0.13	200000	
K	39	2	He	13150.260	13150.260	1.68	12352814	0.11	200000	
Mn	55	2	He	412.045	412.045	2.08	2691007	0.02	2000	
Co	59	2	He	110.313	110.313	1.08	1409374	0.01	2000	
Ni	60	2	He	108.647	108.647	0.81	356097	0.03	2000	
Cu	63	2	He	108.068	108.068	1.07	938360	0.01	2000	
Zn	66	2	He	118.677	118.677	1.55	190587	0.06	2000	
Al	27	2	He	117.288	117.288	1.60	59452	0.20	2000	
B	11	1	No Gas	8.452	8.452	1.82	43127	0.02	2000	
Al	27	1	No Gas	116.684	116.684	1.14	2347502	0.00	2000	
Si	28	1	No Gas	27109.486	27109.486	0.77	271316283	0.01	2000	>LDR
Ag	107	1	No Gas	108.214	108.214	5.38	2788493	0.00	2000	
Cd	111	1	No Gas	107.440	107.440	1.74	549019	0.02	2000	
Sr	88	1	No Gas	268.263	268.263	0.76	13783683	0.00	2000	
Mo	95	1	No Gas	82.876	82.876	2.62	814722	0.01	2000	
Sn	118	1	No Gas	-0.258	-0.258	-3.61	747	-0.03	2000	
Sb	121	1	No Gas	98.303	98.303	0.56	2353635	0.00	2000	
Ba	137	1	No Gas	319.515	319.515	1.40	2798467	0.01	2000	
Tl	205	1	No Gas	86.831	86.831	2.11	6312512	0.00	2000	
Tl	203	1	No Gas	86.154	86.154	2.67	2574218	0.00	2000	
Pb	208	1	No Gas	81.430	81.430	1.80	8409465	0.00	2000	
U	238	1	No Gas	0.487	0.487	0.47	58090	0.00	2000	
Ca	43	2	He	29090.614	29090.614	2.72	82789	35.14	200000	
Sb	121	2	He	100.741	100.741	1.06	1038428	0.01	2000	
Ti	47	2	He	114.127	114.127	2.53	31990	0.36	2000	
Cu	63	1	No Gas	111.695	111.695	0.68	2091617	0.01	2000	
Ca	44	1	No Gas	27853.963	27853.963	0.77	20853393	0.13	200000	
Zn	66	1	No Gas	115.229	115.229	1.65	558231	0.02	2000	
Se	82	1	No Gas	108.551	108.551	2.99	35427	0.31	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1368566	1.28	1311506	104.35	70	120	
Ge	72	2	He	917824	0.88	1024231	89.61	70	120	
Ge	72	1	No Gas	3331451	2.34	3625271	91.90	70	120	
In	115	1	No Gas	4203975	1.85	4826624	87.10	70	120	
Bi	209	1	No Gas	5318721	3.61	5040996	105.51	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	043SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:20:49-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	16.126	16.126	2.20	397833	0.00	2000	
Be	9	1	No Gas	102.134	102.134	1.33	505373	0.02	2000	
V	51	2	He	105.780	105.780	2.96	766091	0.01	2000	
Cr	52	2	He	106.488	106.488	2.95	871070	0.01	2000	
Fe	56	2	He	10967.891	10967.891	2.16	87100595	0.01	200000	
Se	78	2	He	113.730	113.730	2.44	14180	0.80	2000	
As	75	2	He	115.167	115.167	2.32	143708	0.08	2000	
Ca	44	2	He	29188.204	29188.204	2.69	1408358	2.07	200000	
Na	23	2	He	215886.018	215886.018	2.69	263226463	0.08	200000	>LDR
Mg	24	2	He	21195.656	21195.656	2.75	15992016	0.13	200000	
K	39	2	He	12938.482	12938.482	2.82	12021195	0.11	200000	
Mn	55	2	He	414.661	414.661	4.42	2677447	0.02	2000	
Co	59	2	He	107.662	107.662	2.31	1360564	0.01	2000	
Ni	60	2	He	106.594	106.594	2.21	345561	0.03	2000	
Cu	63	2	He	107.096	107.096	1.80	919817	0.01	2000	
Zn	66	2	He	117.456	117.456	3.16	186537	0.06	2000	
Al	27	2	He	114.339	114.339	4.44	57337	0.20	2000	
B	11	1	No Gas	8.748	8.748	1.77	43409	0.02	2000	
Al	27	1	No Gas	119.609	119.609	2.52	2282262	0.01	2000	
Si	28	1	No Gas	27876.504	27876.504	1.83	264748023	0.01	2000	>LDR
Ag	107	1	No Gas	111.020	111.020	5.25	2670786	0.00	2000	
Cd	111	1	No Gas	107.811	107.811	2.37	513961	0.02	2000	
Sr	88	1	No Gas	278.652	278.652	1.94	13358818	0.00	2000	
Mo	95	1	No Gas	85.389	85.389	1.00	783646	0.01	2000	
Sn	118	1	No Gas	-0.255	-0.255	-3.69	757	-0.03	2000	
Sb	121	1	No Gas	97.048	97.048	0.90	2205143	0.00	2000	
Ba	137	1	No Gas	323.061	323.061	2.29	2639729	0.01	2000	
Tl	205	1	No Gas	82.660	82.660	1.63	5801931	0.00	2000	
Tl	203	1	No Gas	82.045	82.045	1.67	2367247	0.00	2000	
Pb	208	1	No Gas	77.638	77.638	1.69	7739206	0.00	2000	
U	238	1	No Gas	0.478	0.478	1.55	55170	0.00	2000	
Ca	43	2	He	28982.165	28982.165	3.07	81558	35.54	200000	
Sb	121	2	He	100.350	100.350	2.52	1023140	0.01	2000	
Ti	47	2	He	112.928	112.928	2.08	31306	0.36	2000	
Cu	63	1	No Gas	111.980	111.980	0.94	1989913	0.01	2000	
Ca	44	1	No Gas	28352.300	28352.300	1.13	20142028	0.14	200000	
Zn	66	1	No Gas	114.609	114.609	1.47	526811	0.02	2000	
Se	82	1	No Gas	109.002	109.002	1.34	33752	0.32	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1351698	0.44	1311506	103.06	70	120	
Ge	72	2	He	908181	2.73	1024231	88.67	70	120	
Ge	72	1	No Gas	3161782	0.38	3625271	87.22	70	120	
In	115	1	No Gas	3923441	1.38	4826624	81.29	70	120	
Bi	209	1	No Gas	5133825	1.47	5040996	101.84	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	044SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:23:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	16.403	16.403	3.12	404203	0.00	2000	
Be	9	1	No Gas	102.913	102.913	3.14	510232	0.02	2000	
V	51	2	He	103.206	103.206	2.11	750261	0.01	2000	
Cr	52	2	He	104.473	104.473	1.72	857794	0.01	2000	
Fe	56	2	He	10771.334	10771.334	1.67	85840089	0.01	200000	
Se	78	2	He	113.924	113.924	1.71	14253	0.80	2000	
As	75	2	He	112.735	112.735	2.16	141174	0.08	2000	
Ca	44	2	He	28656.868	28656.868	1.71	1387655	2.07	200000	
Na	23	2	He	212071.389	212071.389	2.11	259492143	0.08	200000	>LDR
Mg	24	2	He	20697.084	20697.084	1.85	15671514	0.13	200000	
K	39	2	He	12662.452	12662.452	1.48	11809089	0.11	200000	
Mn	55	2	He	403.051	403.051	1.76	2612515	0.02	2000	
Co	59	2	He	105.522	105.522	1.76	1338156	0.01	2000	
Ni	60	2	He	104.892	104.892	1.02	341243	0.03	2000	
Cu	63	2	He	104.320	104.320	1.13	899076	0.01	2000	
Zn	66	2	He	115.874	115.874	2.47	184720	0.06	2000	
Al	27	2	He	112.946	112.946	1.26	56875	0.20	2000	
B	11	1	No Gas	8.577	8.577	4.74	43025	0.02	2000	
Al	27	1	No Gas	118.919	118.919	2.32	2236397	0.01	2000	
Si	28	1	No Gas	28693.372	28693.372	2.37	268574523	0.01	2000	>LDR
Ag	107	1	No Gas	108.164	108.164	2.97	2573963	0.00	2000	
Cd	111	1	No Gas	107.454	107.454	2.13	506808	0.02	2000	
Sr	88	1	No Gas	279.508	279.508	1.65	13256844	0.00	2000	
Mo	95	1	No Gas	84.743	84.743	1.45	769312	0.01	2000	
Sn	118	1	No Gas	-0.260	-0.260	-1.22	660	-0.04	2000	
Sb	121	1	No Gas	97.097	97.097	2.57	2174395	0.00	2000	
Ba	137	1	No Gas	326.053	326.053	1.38	2635840	0.01	2000	
Tl	205	1	No Gas	82.136	82.136	2.34	5730432	0.00	2000	
Tl	203	1	No Gas	82.147	82.147	3.29	2355478	0.00	2000	
Pb	208	1	No Gas	77.336	77.336	2.20	7662924	0.00	2000	
U	238	1	No Gas	0.475	0.475	4.33	54393	0.00	2000	
Ca	43	2	He	28848.818	28848.818	2.11	81481	35.41	200000	
Sb	121	2	He	97.907	97.907	1.87	1001733	0.01	2000	
Ti	47	2	He	110.992	110.992	3.01	30878	0.36	2000	
Cu	63	1	No Gas	111.704	111.704	1.78	1956420	0.01	2000	
Ca	44	1	No Gas	28683.627	28683.627	2.31	20083049	0.14	200000	
Zn	66	1	No Gas	113.918	113.918	1.69	516144	0.02	2000	
Se	82	1	No Gas	108.049	108.049	4.55	32970	0.33	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1354736	1.56	1311506	103.30	70	120	
Ge	72	2	He	911032	0.50	1024231	88.95	70	120	
Ge	72	1	No Gas	3116664	1.45	3625271	85.97	70	120	
In	115	1	No Gas	3881112	0.74	4826624	80.41	70	120	
Bi	209	1	No Gas	5104647	3.15	5040996	101.26	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	046_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:33:12-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.283	1.798	1848806	3.32	100	96.3	90	110	
Be	9	1	No Gas	95.472	1.389	437237	2.90	100	95.5	90	110	
V	51	2	He	104.049	2.010	774203	1.77	100	104.0	90	110	
Cr	52	2	He	104.550	2.064	878698	1.81	100	104.6	90	110	
Fe	56	2	He	10275.487	1.600	83823912	1.58	10000	102.8	90	110	
Se	78	2	He	101.165	1.308	12973	1.75	100	101.2	90	110	
As	75	2	He	103.607	1.679	132827	1.33	100	103.6	90	110	
Ca	44	2	He	10246.287	2.043	508374	1.85	10000	102.5	90	110	
Na	23	2	He	10427.595	1.856	13143728	1.61	10000	104.3	90	110	
Mg	24	2	He	10465.224	2.129	8112032	2.06	10000	104.7	90	110	
K	39	2	He	10397.938	2.174	9941929	2.06	10000	104.0	90	110	
Mn	55	2	He	104.016	1.747	690678	1.47	100	104.0	90	110	
Co	59	2	He	103.596	1.894	1344782	1.88	100	103.6	90	110	
Ni	60	2	He	104.388	2.224	347646	2.46	100	104.4	90	110	
Cu	63	2	He	103.851	1.539	916185	1.47	100	103.9	90	110	
Zn	66	2	He	103.778	2.412	169443	2.16	100	103.8	90	110	
Al	27	2	He	104.669	2.305	54050	2.11	100	104.7	90	110	
B	11	1	No Gas	455.806	0.842	1181123	2.40	500	91.2	90	110	
Al	27	1	No Gas	104.583	2.291	2088441	2.34	100	104.6	90	110	
Si	28	1	No Gas	521.350	3.672	5531098	3.79	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.630	1.802	2708671	2.07	100	102.6	90	110	
Cd	111	1	No Gas	100.648	2.100	526480	2.51	100	100.6	90	110	
Sr	88	1	No Gas	102.342	2.048	5384774	2.21	100	102.3	90	110	
Mo	95	1	No Gas	100.486	2.609	1011663	3.05	100	100.5	90	110	
Sn	118	1	No Gas	101.137	1.271	1798277	1.64	100	101.1	90	110	
Sb	121	1	No Gas	99.171	1.862	2350759	2.17	100	99.2	90	110	
Ba	137	1	No Gas	100.189	1.862	898717	2.16	100	100.2	90	110	
Tl	205	1	No Gas	104.016	2.046	6329561	2.47	100	104.0	90	110	
Tl	203	1	No Gas	103.468	1.311	2588125	1.79	100	103.5	90	110	
Pb	208	1	No Gas	101.010	1.988	8728486	2.26	100	101.0	90	110	
U	238	1	No Gas	97.681	1.437	9218801	1.65	100	97.7	90	110	
Ca	43	2	He	10325.075	2.413	29879	2.35	10000	103.3	90	110	
Sb	121	2	He	100.991	1.795	1057726	1.82	100	101.0	90	110	
Ti	47	2	He	105.644	1.276	30086	1.86	100	105.6	90	110	
Cu	63	1	No Gas	102.933	1.408	1908352	1.50	100	102.9	90	110	
Se	82	1	No Gas	98.275	2.156	31788	2.66	100	98.3	90	110	
Zr	90	1	No Gas	87.929	2.314	2941106	2.54	100	87.9	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	86.847	2.053	1151565	1.85	100	86.8	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1250833	1.60	1311506	95.37	70	120	
Ge	72	2	He	932591	0.83	1024231	91.05	70	120	
Ge	72	1	No Gas	3298332	0.79	3625271	90.98	70	120	
In	115	1	No Gas	4304087	0.89	4826624	89.17	70	120	
Bi	209	1	No Gas	4450495	0.62	5040996	88.29	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	047_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:35:36-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.237	15.5	73855	0.9	0.5	
Be	9	1	No Gas	0.006	86.3	170	13.5	0.5	
V	51	2	He	0.176	5.3	7186	0.1	2.5	
Cr	52	2	He	0.112	34.9	8720	2.9	2.5	
Fe	56	2	He	4.274	2.2	49198	1.8	100	
Se	78	2	He	0.225	94.8	168	15.5	2	
As	75	2	He	0.084	22.5	358	6.0	2.5	
Ca	44	2	He	45.957	13.6	3064	10.3	100	
Na	23	2	He	33.742	1.3	129523	0.4	100	
Mg	24	2	He	1.830	3.9	2497	1.4	100	
K	39	2	He	9.415	14.9	96602	0.6	100	
Mn	55	2	He	0.179	3.3	1917	1.7	2.5	
Co	59	2	He	0.010	50.5	567	12.8	2.5	
Ni	60	2	He	0.155	18.9	813	11.7	2.5	
Cu	63	2	He	0.079	15.1	1273	7.6	2	
Zn	66	2	He	0.874	8.2	2404	5.5	2.5	
Al	27	2	He	2.554	21.8	2657	11.3	5	
B	11	1	No Gas	2.445	39.2	23807	10.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	2.530	11.6	103288	6.0	5	
Si	28	1	No Gas	6.578	3.5	435411	0.8	10	
Ag	107	1	No Gas	0.093	20.7	2964	16.7	2.5	
Cd	111	1	No Gas	0.002	228.9	11	190.0	1	
Sr	88	1	No Gas	0.109	6.0	8209	5.1	2.5	
Mo	95	1	No Gas	0.137	3.8	1553	3.9	2.5	
Sn	118	1	No Gas	0.113	20.9	7402	6.7	5	
Sb	121	1	No Gas	0.151	8.0	4144	7.4	2.5	
Ba	137	1	No Gas	0.233	6.9	2780	4.4	2.5	
Tl	205	1	No Gas	0.041	51.9	4754	28.4	1	
Tl	203	1	No Gas	0.045	45.9	2027	26.6	1	
Pb	208	1	No Gas	0.016	19.2	5811	4.5	2.5	
U	238	1	No Gas	0.003	42.8	3074	5.0	2.5	
Ca	43	2	He	63.773	14.2	227	11.1	100	
Sb	121	2	He	0.131	8.0	1670	5.7	2.5	
Ti	47	2	He	0.049	70.9	20	50.0	2.5	
Cu	63	1	No Gas	0.172	3.3	5505	2.4	2.5	
Se	82	1	No Gas	0.041	280.5	427	8.2	2	
Zr	90	1	No Gas	0.108	20.0	4988	15.3	2.5	
Zr	90	2	He	0.078	16.2	2540	5.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1236150	0.39	1311506	94.25	70	120	
Ge	72	2	He	932872	0.81	1024231	91.08	70	120	
Ge	72	1	No Gas	3283397	0.55	3625271	90.57	70	120	

Continuing Calibration Blank (CCB) Report

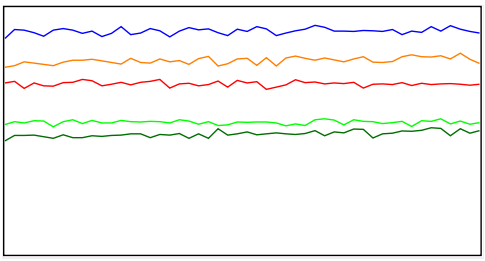
In	115	1	No Gas	4335697	0.93	4826624	89.83	70	120	
Bi	209	1	No Gas	4554468	0.53	5040996	90.35	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq. Date-Time	6/26/2024 9:44:19 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	6914	69141.63		
24	50000	26745	267454.27		
59	50000	45257	452570.16		
115	100000	78557	785565.27		
208	100000	48777	487773.85		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	1.335	5.000	
24	1.476	5.000	
59	1.329	5.000	
115	1.690	5.000	
208	2.491	5.000	

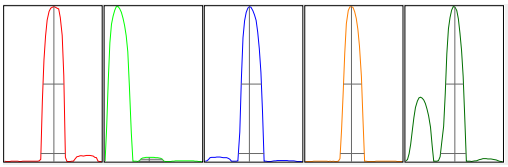
Mass	Background	Background (Required)	Background (Flag)
9	2.200		
24	1.700		
59	1.300		
115	1.400		
208	3.400		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.109 %
Doubly Charged	70 / 140 0.890 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7001.27	9.05	8.90 - 9.10	
24	27121.43	23.90	23.90 - 24.10	
59	45960.25	58.90	58.90 - 59.10	
115	79360.88	114.95	114.90 - 115.10	
208	47685.70	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.743		
24	0.66	0.766		
59	0.62	0.780		
115	0.55	0.732		
208	0.55	0.780		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

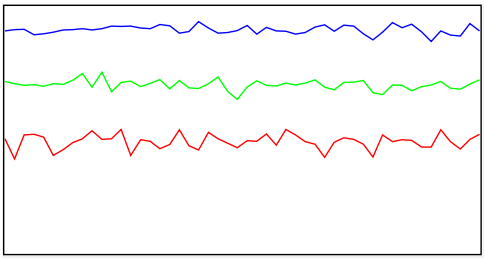
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	500	226	2262.38		
24	2000	1366	13661.16		
59	20000	18118	181179.61		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

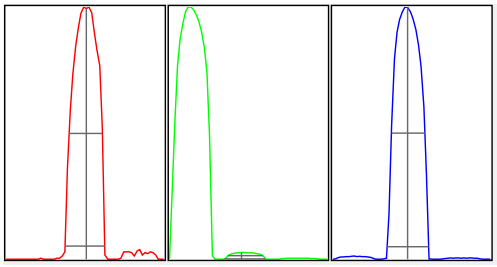
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	6.711	5.000	Fail
24	2.932	5.000	
59	1.861	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.600		
24	0.600		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.428 %
Doubly Charged	70 / 140 0.809 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	236.78	9.05	8.90 - 9.10	
24	1431.78	23.90	23.90 - 24.10	
59	18623.73	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.743		
24	0.66	0.766		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.780		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Prep Batch Report

Batch ID:	213798	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	19 Jun 2024 03:00 PM	**Original Factor:**	1
End Date:	19 Jun 2024 07:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060694-01	C	Water	<2	10	10	1	1	DOD
HS24060694-01MS	A		<2	10	10	1	1	
HS24060694-01MSD	A		<2	10	10	1	1	
HS24060694-01PDS	A		<2	10	10	1	1	
HS24060694-01SD	A		<2	10	10	1	1	
HS24060694-02	C	Water	<2	10	10	1	1	
HS24060694-03	C	Water	<2	10	10	1	1	
HS24060694-06	C	Water	<2	10	10	1	1	
HS24060694-08	C	Water	<2	10	10	1	1	
HS24060747-03	C	Groundwater	<2	10	10	1	1	
HS24060747-05	C	Groundwater	<2	10	10	1	1	
HS24060747-07	C	Groundwater	<2	10	10	1	1	
HS24060747-09	C	Groundwater	<2	10	10	1	1	
HS24060795-03	C	Water	<2	10	10	1	1	
HS24060795-04	C	Water	<2	10	10	1	1	
HS24060795-05	C	Water	<2	10	10	1	1	
HS24060795-07	C	Water	<2	10	10	1	1	
HS24060795-08	C	Water	<2	10	10	1	1	
HS24060795-09	C	Water	<2	10	10	1	1	
HS24060899-03	C	Water	<2	10	10	1	1	
HS24060899-05	C	Water	<2	10	10	1	1	
HS24060899-07	C	Water	<2	10	10	1	1	
LCS-213798	A			10	10	1	1	
MBLK-213798	A			10	10	1	1	

Prep Batch Report

Batch ID:	213798	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	19 Jun 2024 03:00 PM	**Original Factor:**	1
End Date:	19 Jun 2024 07:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB9
3010A	Thermometer ID	S06761
3010A	Thermometer Location	F6
3010A	Dig. Cup ID	3111202609
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202611
3010A	LCS/MS Volume, mL	0.05
3010A	HNO3 ID	3111-202514
3010A	HCl ID	3111-202416
3010A	Method for HS-MET002 SOP (3010A)	Method SW3010A
3010A	Dig. Start Temp (U)	95
3010A	Dig. Start Temp (C)	95
3010A	Dig. End Temp (U)	95
3010A	Dig. End Temp (C)	95
3010A	pH Paper:	3111201820
MET	Pipette #3	ICP#10(0.05ML)
MET	Pipette #1	MP#11(10ML)/ICP#13 (1ML)

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060694-01	C	Water		10	10	1	1	
HS24060694-02	C	Water		10	10	1	1	
HS24060694-02MS	A			10	10	1	1	
HS24060694-02MSD	A			10	10	1	1	
HS24060694-03	C	Water		10	10	1	1	
HS24060694-06	C	Water		10	10	1	1	
HS24060694-08	C	Water		10	10	1	1	
HS24060747-03	C	Groundwater		10	10	1	1	
HS24060747-05	C	Groundwater		10	10	1	1	
HS24060747-07	C	Groundwater		10	10	1	1	
HS24060747-09	C	Groundwater		10	10	1	1	
HS24060795-03	C	Water		10	10	1	1	
HS24060795-04	C	Water		10	10	1	1	
HS24060795-05	C	Water		10	10	1	1	
HS24060795-07	C	Water		10	10	1	1	
HS24060795-08	C	Water		10	10	1	1	
HS24060795-09	C	Water		10	10	1	1	
HS24060899-03	C	Water		10	10	1	1	
HS24060899-05	C	Water		10	10	1	1	
HS24060899-07	C	Water		10	10	1	1	
LCS-214008	A			10	10	1	1	
MBLK-214008	A			10	10	1	1	

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
200.8PR	Dig. End Temp, C (U)	94
HG	Sample Tube	3111202316
Hg_W	Method for SOP HS-MET004 (7470A / EPA 245.1)	7470A / EPA 245.1
Hg_W	Cal Std ID	CalStd ID -062424
Hg_W	Cal 0.0 vol, mL	0
Hg_W	Cal 0.2 vol, mL	0.10
Hg_W	Cal 0.5 vol, mL	0.25
Hg_W	Cal 2.0 vol, mL	1
Hg_W	Cal 5.0 vol, mL	2.5
Hg_W	Cal 10.0 vol, mL	5
Hg_W	ICV Std vol, mL	0.25
Hg_W	ICB Std vol, mL	0
Hg_W	CCV Std vol, mL	2.5
Hg_W	CCB Std vol, mL	0
Hg_W	Digestion Cup ID	3111202516
Hg_W	Filter ID	N/A
Hg_W	Hotblock ID	HB 1
Hg_W	Thermometer ID	W21857
Hg_W	Thermometer Position	A10
Hg_W	LCS/MS ID:	02- SPK- 062124
Hg_W	LCS Volume, mL	0.5
Hg_W	MS Volume, mL	0.5
Hg_W	H2SO4 ID	311120201819
Hg_W	K2S2O8 ID	PER - 7/3/23
Hg_W	HNO3 ID	3111202304
Hg_W	5% KMnO4 ID	KMNO - 7/3/23
Hg_W	NaCl/Hydroxylamine ID	HYDRO - 7/3/23
Hg_W	Dig. Start Time	13:30PM
Hg_W	Dig. Start Temp, C (U)	94
Hg_W	Dig. Start Temp, C (C)	94
Hg_W	0.5 mL H2SO4 (Time)	YES
Hg_W	0.25 mL HNO3 (Time)	YES
Hg_W	Dig. End Time	15:30PM
Hg_W	1.5 mL 5% KMnO4 (Time)	YES
Hg_W	Dig. End Temp, C (C)	94

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
Hg_W	0.6 mL NaCl/Hydrox. (Time)	YES
Hg_W	0.8 mL K2S2O8 (Time)	YES
Hg_W	0.5 mL 10% SnCl2 ID	SNCL - 5/16/24
Hg_W	ICCV Std vol, mL	2.5
Hg_W	CRA Std vol, mL	0.1
Hg_W	pH Paper:	30010709607
MET	Pipette #3	HG #12
MET	Pipette #1	ICP#12

HS24060747 E2400687 Perch Level IV Report

ALS WO# HS24060747

June 25, 2024 Service Request No:E2400687

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24060747

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 12, 2024
For your reference, these analyses have been assigned our service request number **E2400687.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400683
Project:	HS24060694	**Date Received:**	06/12/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 06/12/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400332: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400687
Project: HS24060747

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400687-001	1824DPTMW05_061024	6/10/2024	0735
E2400687-002	1824DPTMW05_061024_a	6/10/2024	0735
E2400687-003	129_061024	6/10/2024	0825
E2400687-004	120_061024	6/10/2024	0910
E2400687-005	MW14_061024	6/10/2024	0955
E2400687-006	MW23_061024	6/10/2024	1040
E2400687-007	CO9_061024	6/10/2024	1125
E2400687-008	CO1_061024	6/10/2024	1215
E2400687-009	126_061024	6/10/2024	1300

Service Request Summary

Folder #: **E2400687**
Client Name: ALS Environmental - US
Project Name: HS24060747
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/12/24
Internal Due Date: 6/24/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

11 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400687-001	1824DPTMW05_061024	Ground Water	06/10/24 0735	**IV**
E2400687-002	1824DPTMW05_061024_a	Ground Water	06/10/24 0735	**IV**
E2400687-003	129_061024	Ground Water	06/10/24 0825	**IV**
E2400687-004	120_061024	Ground Water	06/10/24 0910	**IV**
E2400687-005	MW14_061024	Ground Water	06/10/24 0955	**IV**
E2400687-006	MW23_061024	Ground Water	06/10/24 1040	**IV**
E2400687-007	CO9_061024	Ground Water	06/10/24 1125	**IV**
E2400687-008	CO1_061024	Ground Water	06/10/24 1215	**IV**
E2400687-009	126_061024	Ground Water	06/10/24 1300	**IV**

Service Request Summary

Folder #: **E2400687**
Client Name: ALS Environmental - US
Project Name: HS24060747
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/12/24
Internal Due Date: 6/24/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

11 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6B
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25987**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: James Guin
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: James.Guin@alsglobal.com
Alternate Contact:
Email:

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS24060747
TSR: Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060747-01**	**1824DPTMW05_061024**	**Groundwater**	**10 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
2.	**HS24060747-02**	**1824DPTMW05_061024_a**	**Groundwater**	**10 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
3.	**HS24060747-03**	**129_061024**	**Groundwater**	**10 Jun 2024 08:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
4.	**HS24060747-04**	**120_061024**	**Groundwater**	**10 Jun 2024 09:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
5.	**HS24060747-05**	**MW14_061024**	**Groundwater**	**10 Jun 2024 09:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
6.	**HS24060747-06**	**MW23_061024**	**Groundwater**	**10 Jun 2024 10:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
7.	**HS24060747-07**	**CO9_061024**	**Groundwater**	**10 Jun 2024 11:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
8.	**HS24060747-08**	**CO1_061024**	**Groundwater**	**10 Jun 2024 12:15**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25987**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
9.	**HS24060747-09**	**126_061024**	**Groundwater**	**10 Jun 2024 13:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25987**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	
Email:	

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060747
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060747-01**	**1824DPTMW05_061024**	**Groundwater**	**10 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
2.	**HS24060747-02**	**1824DPTMW05_061024_a**	**Groundwater**	**10 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
3.	**HS24060747-03**	**129_061024**	**Groundwater**	**10 Jun 2024 08:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
4.	**HS24060747-04**	**120_061024**	**Groundwater**	**10 Jun 2024 09:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
5.	**HS24060747-05**	**MW14_061024**	**Groundwater**	**10 Jun 2024 09:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
6.	**HS24060747-06**	**MW23_061024**	**Groundwater**	**10 Jun 2024 10:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
7.	**HS24060747-07**	**CO9_061024**	**Groundwater**	**10 Jun 2024 11:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
8.	**HS24060747-08**	**CO1_061024**	**Groundwater**	**10 Jun 2024 12:15**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25987**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
9.	**HS24060747-09**	**126_061024**	**Groundwater**	**10 Jun 2024 13:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
Please analyze MS/MSD (-08)

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E2400687 5
ALS Laboratory Group
HS24060747

10450 Stancliff Rd, Ste 210
Houston, TX 77099
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F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24060747 **Date/Time received:** 12 Jun 2024 09:55

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 12 Jun 2024 20:48 (Date/Time) Michael Lucio (eSignature) **Reviewed/By:** 13 Jun 2024 09:42 (Date/Time) Luis.Aguilar (eSignature)

Matrices: w **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	2 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 1.8uc/1.9c IR31

Cooler Information: 1 Cooler(s), 2759

Date/Time sample(s) sent to storage: 06/12/2024 20:49

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 440303 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/20/24 07:40

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400683-001	MW3_061124	.01	6850/ClO4 DOD			Water	10mL	
2	E2400683-002	18CPTMW12SW_061124	.01	6850/ClO4 DOD			Water	10mL	
3	E2400683-003	18CPTMW12DW_061124	.01	6850/ClO4 DOD			Water	10mL	
4	E2400683-004	MW7_061124	.01	6850/ClO4 DOD			Water	10mL	
5	E2400683-005	18CPTMW26SW_061124	.01	6850/ClO4 DOD			Water	10mL	
6	E2400683-006	130_061124	.01	6850/ClO4 DOD			Water	10mL	
7	E2400683-007	18CPTMW19_061124	.01	6850/ClO4 DOD			Water	10mL	
8	E2400683-008	18CPTMW19SW_061124	.01	6850/ClO4 DOD			Water	10mL	
9	E2400687-001	1824DPTMW05_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2400687-002	1824DPTMW05_061024_a	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2400687-003	129_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2400687-004	120_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2400687-005	MW14_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2400687-006	MW23_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2400687-007	CO9_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2400687-008	CO1_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2400687-009	126_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
18	EQ2400332-01	MB		6850/ClO4 DOD			Liquid	10mL	
19	EQ2400332-02	LCS		6850/ClO4 DOD			Liquid	10mL	
20	EQ2400332-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400332-04	ICS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400332-05	CO1_061024 MS	.01	6850/ClO4 DOD			Liquid	10mL	
23	EQ2400332-06	CO1_061024 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400332-02 10.00µL EQ2400332-03 10.00µL EQ2400332-04 10.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 233558 Logbook Ref: Perchlorate INT Stock3 Expires On: 08/05/2024

EQ2400332-05 100.00µL EQ2400332-06 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400683-001 100.00µL E2400683-002 100.00µL E2400683-003 100.00µL E2400683-004 100.00µL E2400683-005 100.00µL E2400683-006 100.00µL

Preparation Information Benchsheet

Prep Run#: 440303 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/20/24 07:40

E2400683-007	100.00µL	E2400683-008	100.00µL	E2400687-001	100.00µL	E2400687-002	100.00µL	E2400687-003	100.00µL	E2400687-004	100.00µL
E2400687-005	100.00µL	E2400687-006	100.00µL	E2400687-007	100.00µL	E2400687-008	100.00µL	E2400687-009	100.00µL	EQ2400332-01	100.00µL
EQ2400332-02	100.00µL	EQ2400332-03	100.00µL	EQ2400332-04	100.00µL	EQ2400332-05	100.00µL	EQ2400332-06	100.00µL		

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/20/24 07:40
Finished: 6/20/24 08:24
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 0735
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	1824DPTMW05_061024	**Units:**	µg/L
Lab Code:	E2400687-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**119000**		1000	500	250	10000	6/20/24	6/20/24 13:04	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 0735
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	1824DPTMW05_061024_a	**Units:**	µg/L
Lab Code:	E2400687-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**99800**		1000	500	250	10000	6/20/24	6/20/24 13:10	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 0825
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	129_061024	**Units:**	µg/L
Lab Code:	E2400687-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**2030**		100	50.0	25.0	1000	6/20/24	6/20/24 13:15	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 0910
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	120_061024	**Units:**	µg/L
Lab Code:	E2400687-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**9670**		100	50.0	25.0	1000	6/20/24	6/20/24 13:21	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 0955
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	MW14_061024	**Units:**	µg/L
Lab Code:	E2400687-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**300000**		10000	5000	2500	100000	6/20/24	6/20/24 13:26	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1040
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	MW23_061024	**Units:**	µg/L
Lab Code:	E2400687-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**79200**		1000	500	250	10000	6/20/24	6/20/24 14:33	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1125
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	CO9_061024	**Units:**	µg/L
Lab Code:	E2400687-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**4.33**		1.00	0.500	0.250	10	6/20/24	6/21/24 12:53	440303	845025	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1215
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	CO1_061024	**Units:**	µg/L
Lab Code:	E2400687-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.598**	J	1.00	0.500	0.250	10	6/20/24	6/21/24 12:58	440303	845025	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1300
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	126_061024	**Units:**	µg/L
Lab Code:	E2400687-009	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	1.00	0.500	0.250	10	6/20/24	6/21/24 13:04	440303	845025	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400332-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/20/24	6/20/24 09:39	440303	844983	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Analyzed:**	06/20/24
Sample Matrix:	Ground Water	**Date Extracted:**	06/20/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	844983

	Lab Control Sample EQ2400332-02			Duplicate Lab Control Sample EQ2400332-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.118	0.100	118	0.115	0.100	115	84-119	2	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400332-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.118**		0.100	0.0500	0.0250	1	6/20/24	6/20/24 09:45	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400332-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.115**		0.100	0.0500	0.0250	1	6/20/24	6/20/24 09:50	440303	844983	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	06/10/24
Sample Matrix:	Ground Water	**Date Received:**	06/12/24
		Date Analyzed:	06/21/24
		Date Extracted:	06/20/24

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	CO1_061024	**Units:**	ug/L
Lab Code:	E2400687-008	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike EQ2400332-05			Duplicate Matrix Spike EQ2400332-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.598 J	1.07	0.100	469 #	1.01	0.100	411 #	84-119	6	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1215
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	CO1_061024	**Units:**	µg/L
Lab Code:	EQ2400332-05	**Basis:**	NA
Run Type:	Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1.07**		1.00	0.500	0.250	10	6/20/24	6/21/24 13:13	440303	845025	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1215
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	CO1_061024	**Units:**	µg/L
Lab Code:	EQ2400332-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1.01**		1.00	0.500	0.250	10	6/20/24	6/21/24 13:19	440303	845025	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

Method File: I:\LCMS01\DATA\20240611\202405611_ICAL.lcm
Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

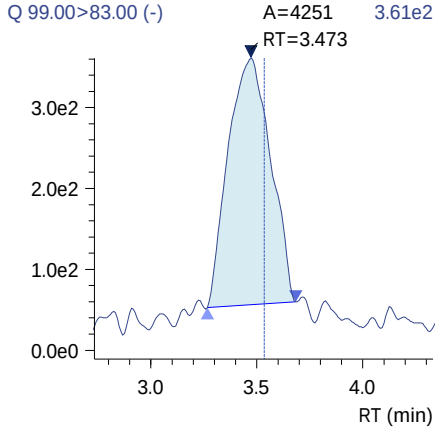
Perchlorate ICAL 1

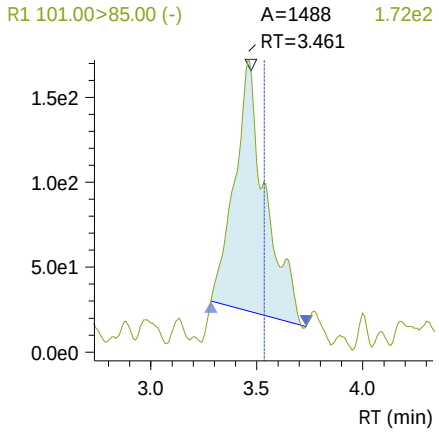
Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

Perchlorate

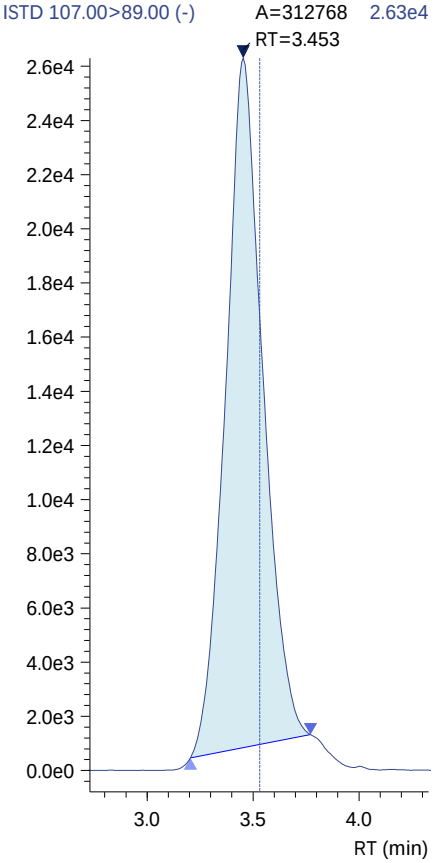
Conc 0.0931
R#1 35.01 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

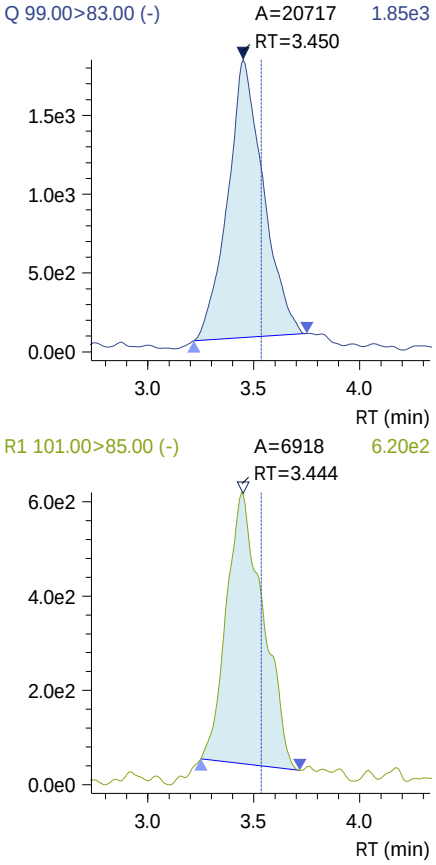
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

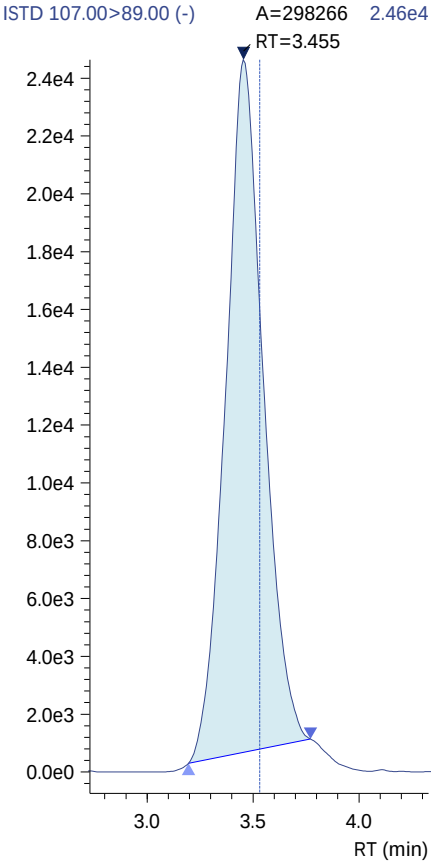
Perchlorate

Conc 0.4757
R#1 33.39 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

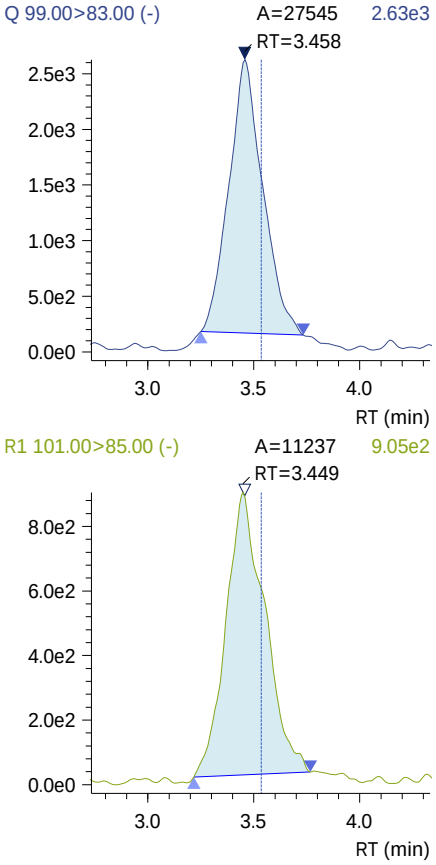
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

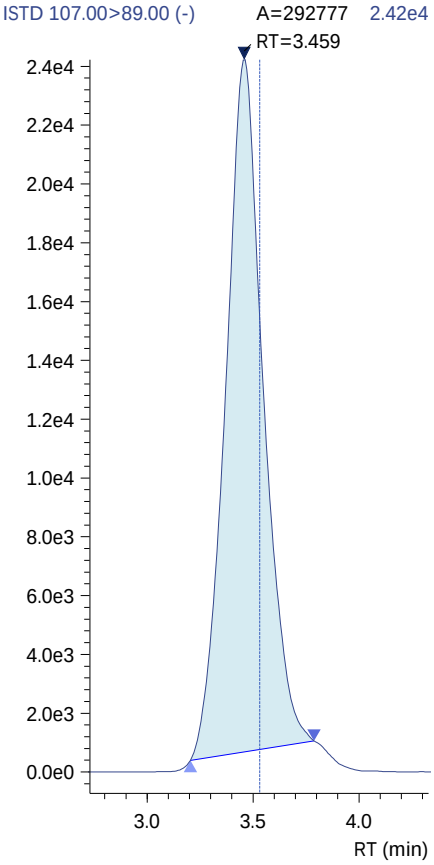
Perchlorate

Conc 0.6444
R#1 40.79 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

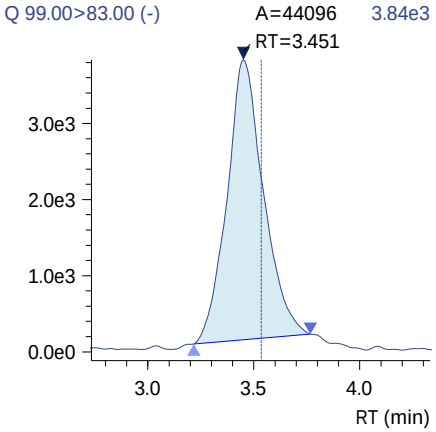
Perchlorate ICAL 4

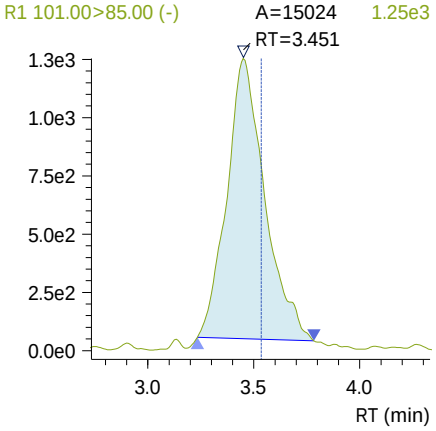
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

Perchlorate

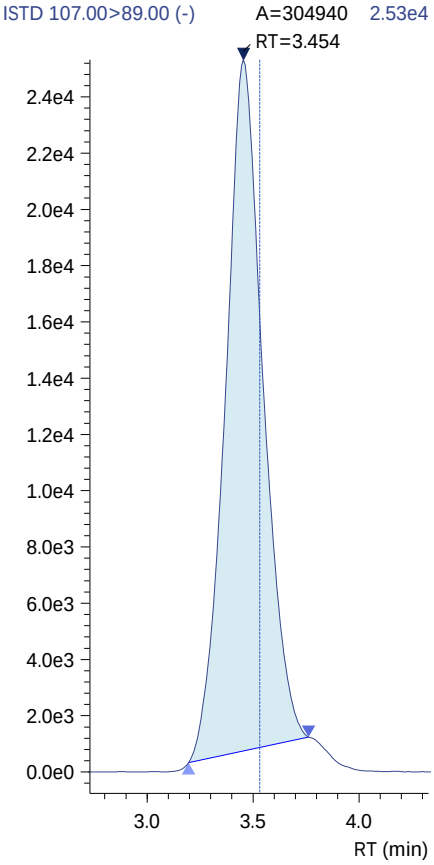
Conc 0.9904
R#1 34.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

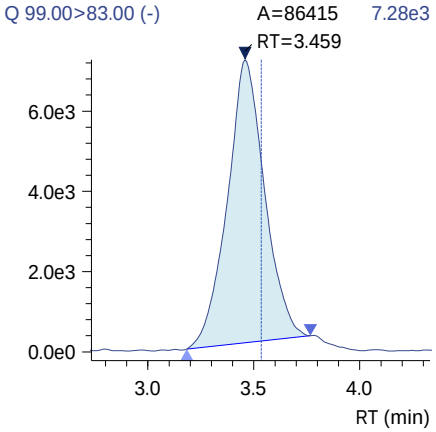
Perchlorate ICAL 5

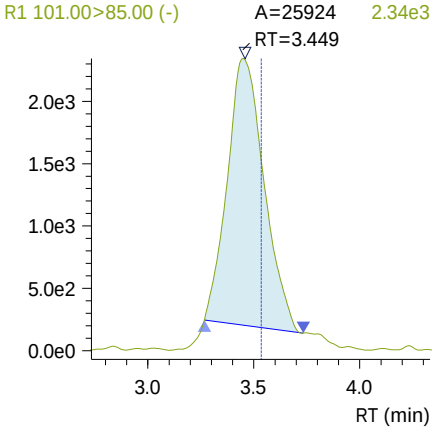
Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

Perchlorate

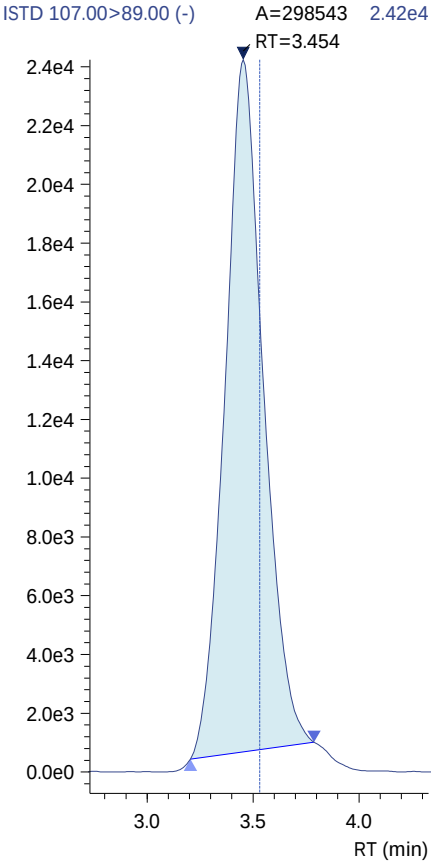
Conc 1.9825
R#1 30.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

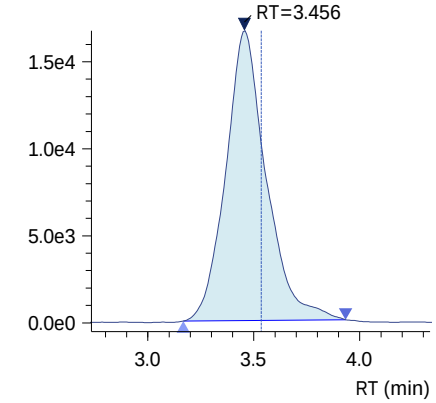
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

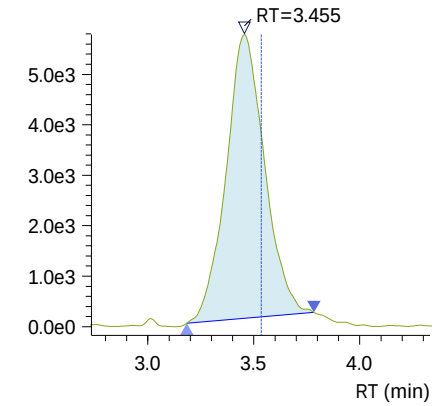
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4
RT=3.456



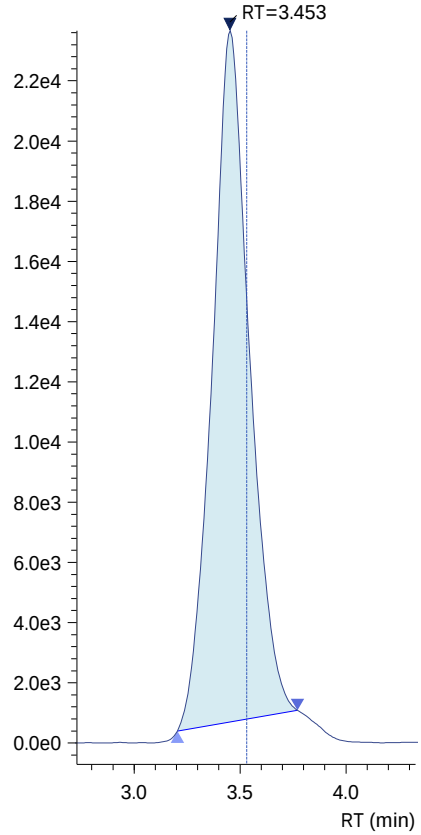
R1 101.00>85.00 (-) A=71270 5.79e3
RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4
RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

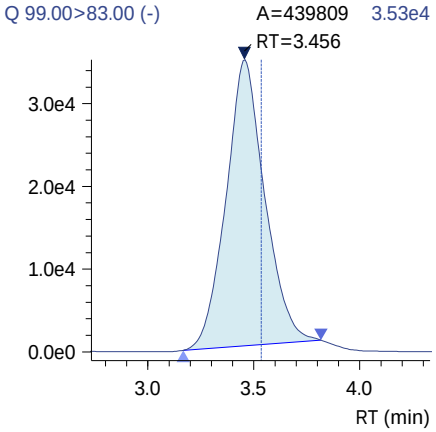
Perchlorate ICAL 7

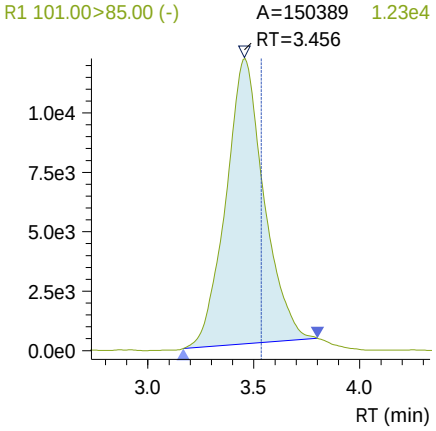
Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4 505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

Perchlorate

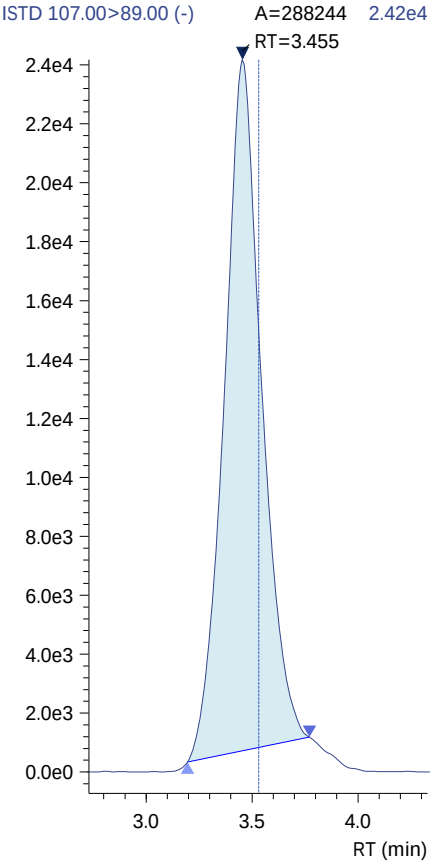
Conc 10.4505
R#1 34.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 8

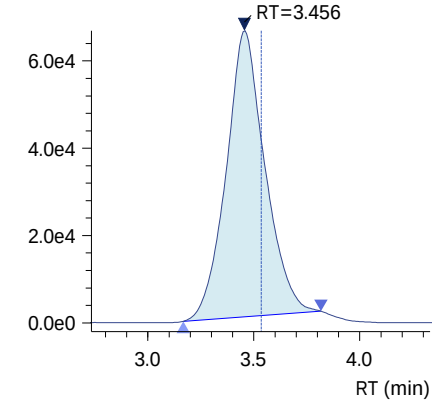
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9 364	ng/mL	101.00 >85.00	34.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

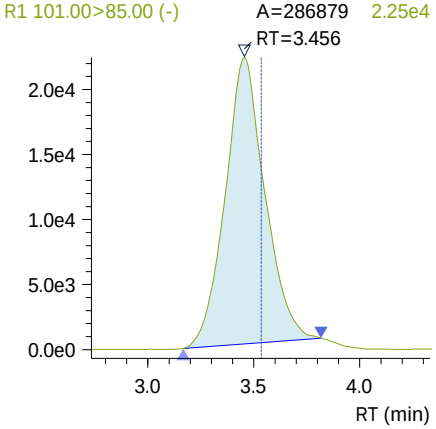
Perchlorate

Conc 20.9364
R#1 34.42 (34.10)

Q 99.00>83.00 (-) A=833444 6.69e4



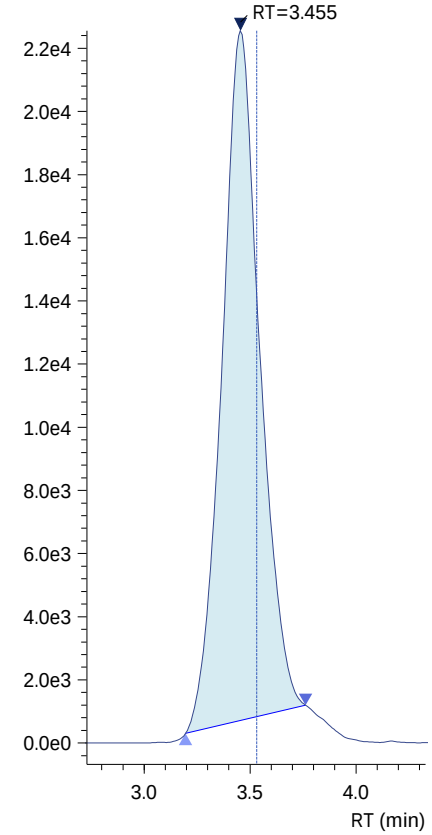
R1 101.00>85.00 (-) A=286879 2.25e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=272651 2.26e4



Insight Report

Printed at 6/12/2024 8:45:04 AM

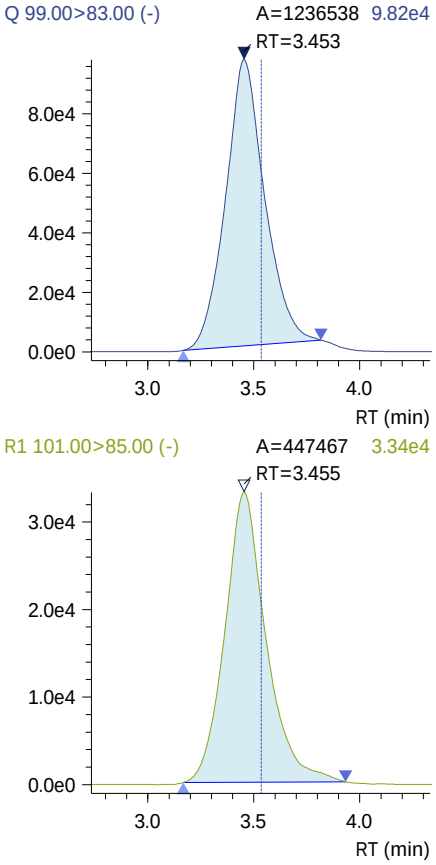
Perchlorate ICAL 9

Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365 38	276997	30.5 749	ng/mL	101.00 >85.00	36.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

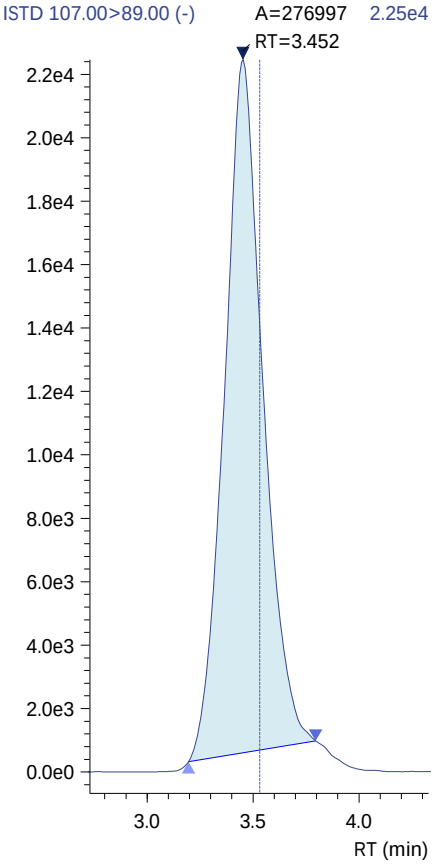
Perchlorate

Conc 30.5749
R#1 36.19 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

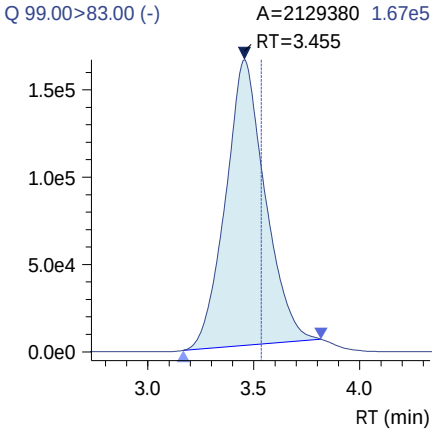
Perchlorate ICAL 10

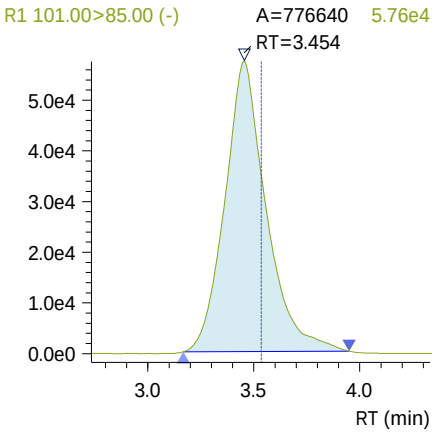
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

Perchlorate

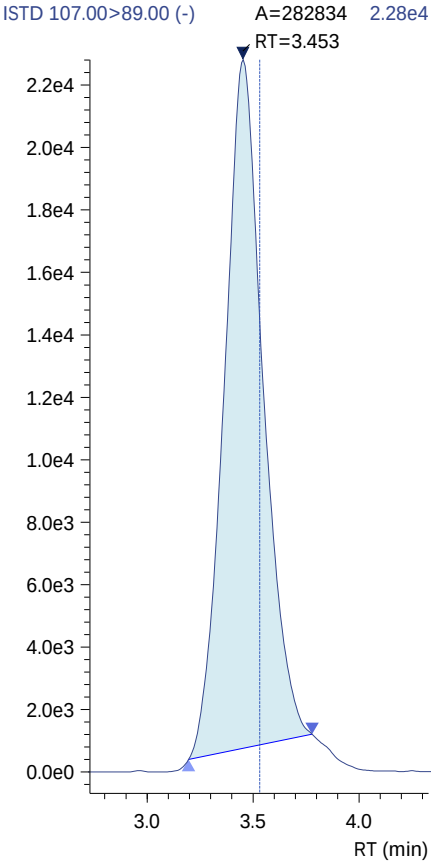
Conc 51.5649
R#1 36.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

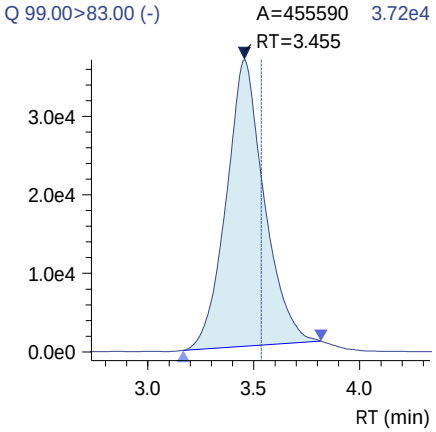
PerchlorateICV

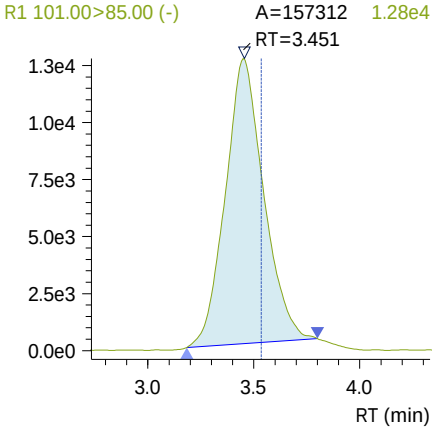
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2 823	ng/mL	101.00 >85.00	34.53	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

Perchlorate

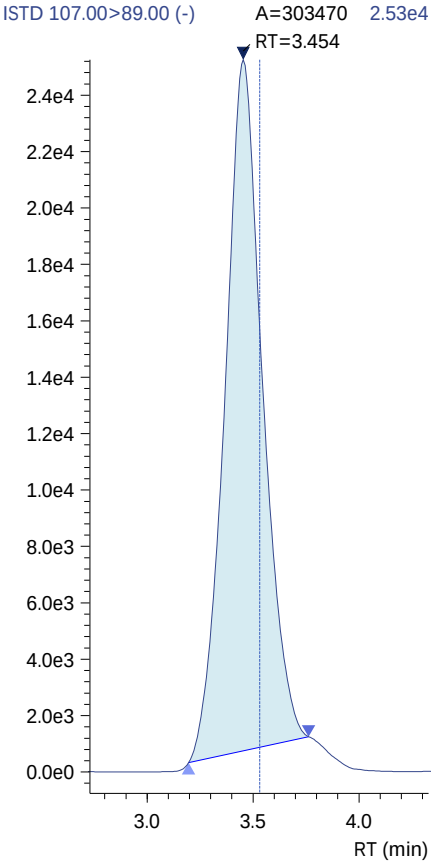
Conc 10.2823
R#1 34.53 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240620-001	IB	Perchlorate6850c.lcm	1x		6/20/2024 8:09
2	20240620-002	IB	Perchlorate6850c.lcm	1x		6/20/2024 8:15
3	20240620-003	IB	Perchlorate6850c.lcm	1x		6/20/2024 8:20
4	20240620-004	LODV	Perchlorate6850c.lcm	1x		6/20/2024 8:26
5	20240620-005	ICS	Perchlorate6850c.lcm	1x		6/20/2024 8:31
6	20240620-006	CCV	Perchlorate6850c.lcm	1x		6/20/2024 8:37
7	20240620-007	IB	Perchlorate6850c.lcm	1x		6/20/2024 9:28
8	20240620-008	LOD-TEST	Perchlorate6850c.lcm	1x		6/20/2024 9:34
9	20240620-009	EQ2400332-01MB	Perchlorate6850c.lcm	1x		6/20/2024 9:39
10	20240620-010	EQ2400332-02LCS	Perchlorate6850c.lcm	1x		6/20/2024 9:45
11	20240620-011	EQ2400332-03DLCS	Perchlorate6850c.lcm	1x		6/20/2024 9:50
12	20240620-012	EQ2400328-04ICS	Perchlorate6850c.lcm	1x		6/20/2024 9:56
13	20240620-013	E2400682-002X20	Perchlorate6850c.lcm	20x		6/20/2024 10:01
14	20240620-014	E2400682-004X100	Perchlorate6850c.lcm	100x		6/20/2024 10:07
15	20240620-015	E2400682-005X100	Perchlorate6850c.lcm	100x		6/20/2024 10:12
16	20240620-016	E2400682-009X100	Perchlorate6850c.lcm	100x		6/20/2024 10:18
17	20240620-017	E2400684-007X10	Perchlorate6850c.lcm	10x		6/20/2024 10:23
18	20240620-018	E2400684-008X1000	Perchlorate6850c.lcm	1000x		6/20/2024 10:29
19	20240620-019	CCV	Perchlorate6850c.lcm	1x		6/20/2024 10:34
20	20240620-020	IB	Perchlorate6850c.lcm	1x		6/20/2024 10:40
21	20240620-021	EQ2400328-05MS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 10:46
22	20240620-022	EQ2400328-05DMS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 10:51
23	20240620-023	E2400683-001	Perchlorate6850c.lcm	1x	DNU	6/20/2024 10:57
24	20240620-024	E2400683-002	Perchlorate6850c.lcm	1x		6/20/2024 11:02
25	20240620-025	E2400683-003	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:08
26	20240620-026	E2400683-004	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:13
27	20240620-027	E2400683-005	Perchlorate6850c.lcm	1x		6/20/2024 11:19
28	20240620-028	E2400683-006	Perchlorate6850c.lcm	1x		6/20/2024 11:24
29	20240620-029	E2400683-007	Perchlorate6850c.lcm	1x		6/20/2024 11:30
30	20240620-030	E2400683-008	Perchlorate6850c.lcm	1x		6/20/2024 11:35
31	20240620-031	CCV	Perchlorate6850c.lcm	1x		6/20/2024 11:41
32	20240620-032	IB	Perchlorate6850c.lcm	1x		6/20/2024 11:47
33	20240620-033	E2400687-001	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:52
34	20240620-034	E2400687-002	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:58
35	20240620-035	E2400687-003	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:03
36	20240620-036	E2400687-004	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:09
37	20240620-037	E2400687-005	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:14
38	20240620-038	E2400687-006	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:20
39	20240620-039	E2400687-007	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:25
40	20240620-040	E2400687-008	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:31
41	20240620-041	E2400687-009	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:36

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
42	20240620-042	E2400683-001x500	Perchlorate6850c.lcm	500x		6/20/2024 12:42
43	20240620-043	CCV	Perchlorate6850c.lcm	1x		6/20/2024 12:48
44	20240620-044	IB	Perchlorate6850c.lcm	1x		6/20/2024 12:53
45	20240620-045	E2400683-004x10000	Perchlorate6850c.lcm	10000x	DNU	6/20/2024 12:59
46	20240620-046	E2400687-001x10000	Perchlorate6850c.lcm	10000x		6/20/2024 13:04
47	20240620-047	E2400687-002x10000	Perchlorate6850c.lcm	10000x		6/20/2024 13:10
48	20240620-048	E2400687-003x1000	Perchlorate6850c.lcm	1000x		6/20/2024 13:15
49	20240620-049	E2400687-004x1000	Perchlorate6850c.lcm	1000x		6/20/2024 13:21
50	20240620-050	E2400687-005x100000	Perchlorate6850c.lcm	100000x		6/20/2024 13:26
51	20240620-051	E2400687-006x1000	Perchlorate6850c.lcm	1000x	DNU	6/20/2024 13:37
52	20240620-052	E2400683-003	Perchlorate6850c.lcm	1x		6/20/2024 13:43
53	20240620-053	E2400683-004x1000	Perchlorate6850c.lcm	1000x		6/20/2024 13:48
54	20240620-054	CCV	Perchlorate6850c.lcm	1x		6/20/2024 13:54
55	20240620-055	IB	Perchlorate6850c.lcm	1x		6/20/2024 13:59
56	20240620-056	E2400687-007	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:05
57	20240620-057	E2400687-008	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:10
58	20240620-058	E2400687-009	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:16
59	20240620-059	EQ2400328-05MS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:21
60	20240620-060	EQ2400328-05DMS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:27
61	20240620-061	E2400687-006x10000	Perchlorate6850c.lcm	10000x		6/20/2024 14:33
62	20240620-062	CCV	Perchlorate6850c.lcm	1x		6/20/2024 14:38
63	20240620-063	IB	Perchlorate6850c.lcm	1x		6/20/2024 14:44

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240621-001	IB	Perchlorate6850c.lcm	1x		6/21/2024 8:56
2	20240621-002	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:01
3	20240621-003	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:07
4	20240621-004	LODV	Perchlorate6850c.lcm	1x		6/21/2024 9:12
5	20240621-005	ICS	Perchlorate6850c.lcm	1x	DNU	6/21/2024 9:18
6	20240621-006	CCV	Perchlorate6850c.lcm	1x		6/21/2024 9:23
7	20240621-007	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:29
8	20240621-008	EQ2400335-01MB	Perchlorate6850c.lcm	1x		6/21/2024 10:17
9	20240621-009	EQ2400335-02LCS	Perchlorate6850c.lcm	1x		6/21/2024 12:36
10	20240621-010	EQ2400335-03DLCS	Perchlorate6850c.lcm	1x		6/21/2024 12:42
11	20240621-011	EQ2400335-04ICS	Perchlorate6850c.lcm	1x		6/21/2024 12:47
12	20240621-012	E2400687-007x10	Perchlorate6850c.lcm	10x		6/21/2024 12:53
13	20240621-013	E2400687-008x10	Perchlorate6850c.lcm	10x		6/21/2024 12:58
14	20240621-014	E2400687-009x10	Perchlorate6850c.lcm	10x		6/21/2024 13:04
15	20240621-015	EQ2400332-05MSx10	Perchlorate6850c.lcm	10x		6/21/2024 13:13
16	20240621-016	EQ2400332-06DMSx10	Perchlorate6850c.lcm	10x		6/21/2024 13:19
17	20240621-017	EQ2400335-05MS	Perchlorate6850c.lcm	1x		6/21/2024 13:24
18	20240621-018	EQ2400335-06DMS	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:30
19	20240621-019	CCV	Perchlorate6850c.lcm	1x		6/21/2024 13:36
20	20240621-020	IB	Perchlorate6850c.lcm	1x		6/21/2024 13:41
21	20240621-021	EQ2400335-06DMS	Perchlorate6850c.lcm	1x		6/21/2024 13:47
22	20240621-022	E2400702-001	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:52
23	20240621-023	E2400702-002	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:58
24	20240621-024	E2400706-001	Perchlorate6850c.lcm	1x		6/21/2024 14:03
25	20240621-025	E2400706-002	Perchlorate6850c.lcm	1x		6/21/2024 14:09
26	20240621-026	E2400685-001	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:14
27	20240621-027	E2400685-002	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:20
28	20240621-028	E2400685-003	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:25
29	20240621-029	E2400685-004	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:31
30	20240621-030	E2400685-005	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:37
31	20240621-031	CCV	Perchlorate6850c.lcm	1x		6/21/2024 14:42
32	20240621-032	IB	Perchlorate6850c.lcm	1x		6/21/2024 14:48
33	20240621-033	E2400685-006	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:57
34	20240621-034	E2400685-007	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:02
35	20240621-035	E2400685-008	Perchlorate6850c.lcm	1x		6/21/2024 15:08
36	20240621-036	E2400691-001	Perchlorate6850c.lcm	1x		6/21/2024 15:13
37	20240621-037	E2400691-002	Perchlorate6850c.lcm	1x		6/21/2024 15:19
38	20240621-038	E2400691-003	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:24
39	20240621-039	E2400691-004	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:30
40	20240621-040	E2400691-005	Perchlorate6850c.lcm	1x		6/21/2024 15:35
41	20240621-041	E2400691-006	Perchlorate6850c.lcm	1x		6/21/2024 15:41

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
42	20240621-042	E2400691-007	Perchlorate6850c.lcm	1x		6/21/2024 15:46
43	20240621-043	CCV	Perchlorate6850c.lcm	1x		6/21/2024 15:52
44	20240621-044	IB	Perchlorate6850c.lcm	1x		6/21/2024 15:57
45	20240621-045	E2400691-008	Perchlorate6850c.lcm	1x		6/21/2024 16:03
46	20240621-046	E2400702-001x10	Perchlorate6850c.lcm	10x		6/21/2024 16:09
47	20240621-047	E2400702-002x10	Perchlorate6850c.lcm	10x		6/21/2024 16:14
48	20240621-048	E2400685-002x100	Perchlorate6850c.lcm	100x		6/21/2024 16:20
49	20240621-049	E2400685-003x100	Perchlorate6850c.lcm	100x		6/21/2024 16:25
50	20240621-050	E2400685-004x100	Perchlorate6850c.lcm	100x		6/21/2024 16:31
51	20240621-051	E2400685-005x200	Perchlorate6850c.lcm	200x		6/21/2024 16:36
52	20240621-052	CCV	Perchlorate6850c.lcm	1x		6/21/2024 16:42
53	20240621-053	IB	Perchlorate6850c.lcm	1x		6/21/2024 16:47

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400687
Project: HS24060747 **Date Analyzed:** 6/20/24 08:37

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-006 **Lab Code:** EQ2400337-07
Instrument ID: E-LCMS-01 **Analysis Lot:** 844983
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-07	207,633	3.45
Method Blank	EQ2400332-01	216,278	3.45
Lab Control Sample	EQ2400332-02	207,782	3.45
Duplicate Lab Control Sample	EQ2400332-03	203,512	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/20/24 10:34

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-019
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-08
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-08	245,753	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/20/24 11:41

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-031
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-03
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-03	260,308	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/20/24 12:48

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-043
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-04
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-04	254,706	3.44
1824DPTMW05_061024	E2400687-001	223,977	3.45
1824DPTMW05_061024_a	E2400687-002	240,873	3.44
129_061024	E2400687-003	228,247	3.45
120_061024	E2400687-004	224,837	3.45
MW14_061024	E2400687-005	214,450	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/20/24 13:54

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-054
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-05
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-05	261,796	3.45
MW23_061024	E2400687-006	201,111	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/20/24 14:38

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-062
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-06
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-06	247,639	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/21/24 09:23

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-006
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400339-01
Analysis Lot: 845025
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400339-01	179,641	3.45
CO9_061024	E2400687-007	254,310	3.45
CO1_061024	E2400687-008	244,204	3.45
126_061024	E2400687-009	188,595	3.42
CO1_061024MS	EQ2400332-05	233,823	3.45
CO1_061024DMS	EQ2400332-06	208,510	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/21/24 13:36

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-019
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400339-02
Analysis Lot: 845025
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400339-02	205,946	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-031

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1460	0.1488	1.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-043

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.77	0.1460	0.1427	-2.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-054

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1460	0.1485	1.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-062

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1460	0.1478	1.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-006

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.50	0.1460	0.1387	-5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-019

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.0	0.1460	0.1465	0.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-006

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845025
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.83	0.1460	0.1436	-1.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060747

Service Request: E2400687
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-019

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845025
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1460	0.1482	1.5	NA	± 15 %	Average RF

Insight Report

Printed at 6/25/2024 12:23:35 PM

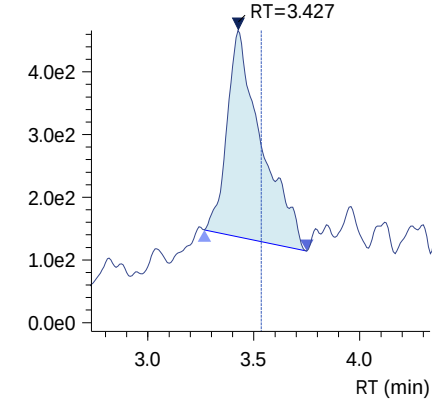
EQ2400328-04ICS

Sample ID: EQ2400328-04ICS
Date Acquired: 6/20/2024 9:56:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 4

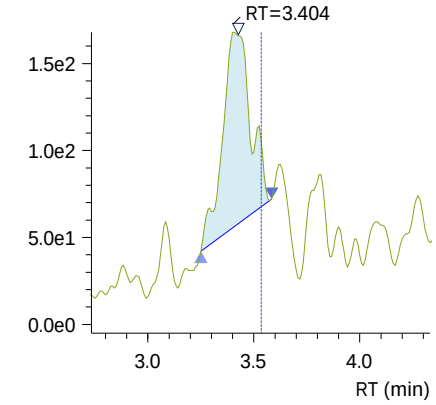
Perchlorate

Conc 0.1619
R#1 27.27 (34.10)

Q 99.00>83.00 (-) A=3755 4.66e2



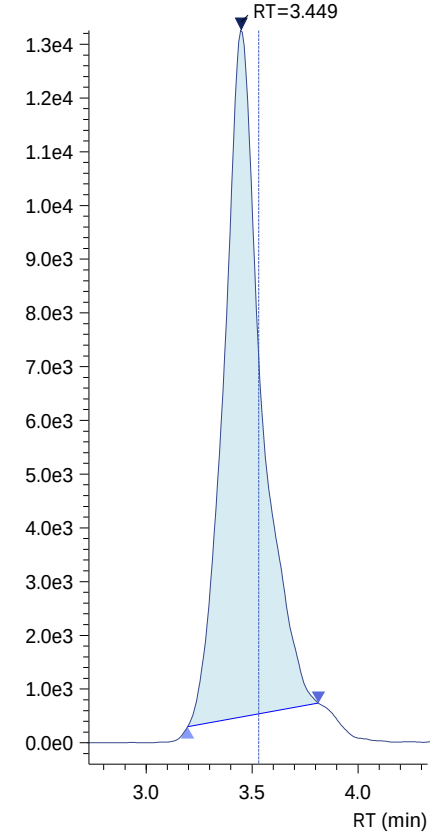
R1 101.00>85.00 (-) A=1024 1.68e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=158849 1.33e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

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Project File: I:\LCMS01\DATA\20240620\20240620.damlp

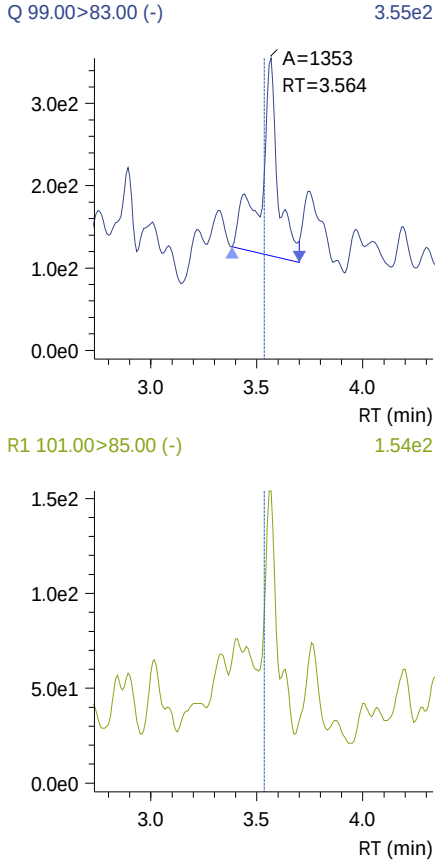
IB

Sample ID: IB
Date Acquired: 6/20/2024 8:20:49 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	180477	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.453	180477	180477	1.0000	ng/mL	----	----	

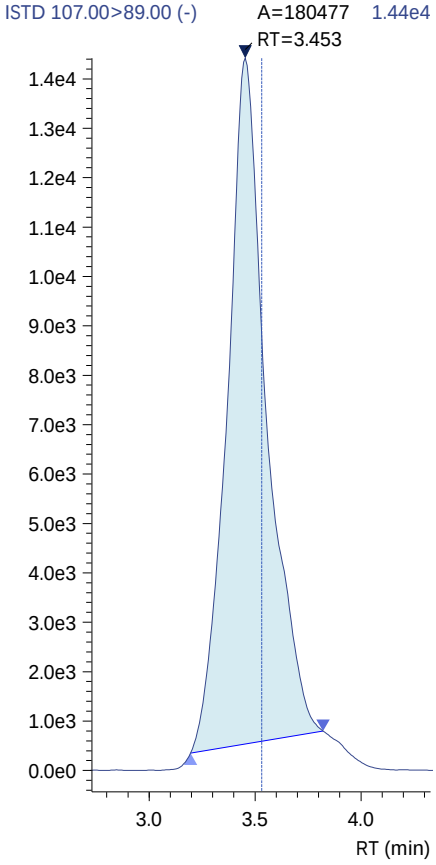
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

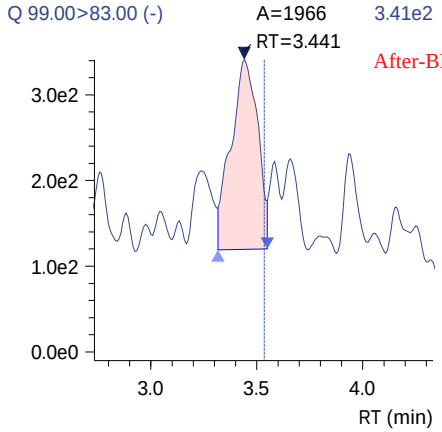
LODV

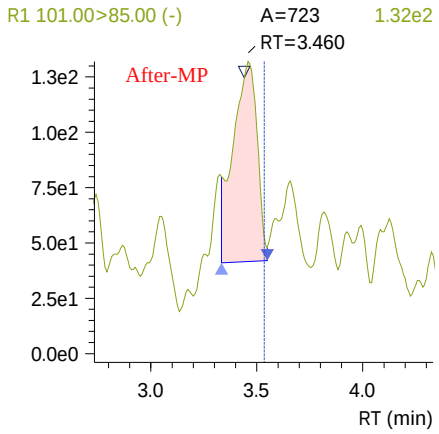
Sample ID: LODV
Date Acquired: 6/20/2024 8:26:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.441	1966	230168	0.0585	ng/mL	101.00 >85.00	36.78	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.454	230168	230168	1.0000	ng/mL	----	----	

Perchlorate

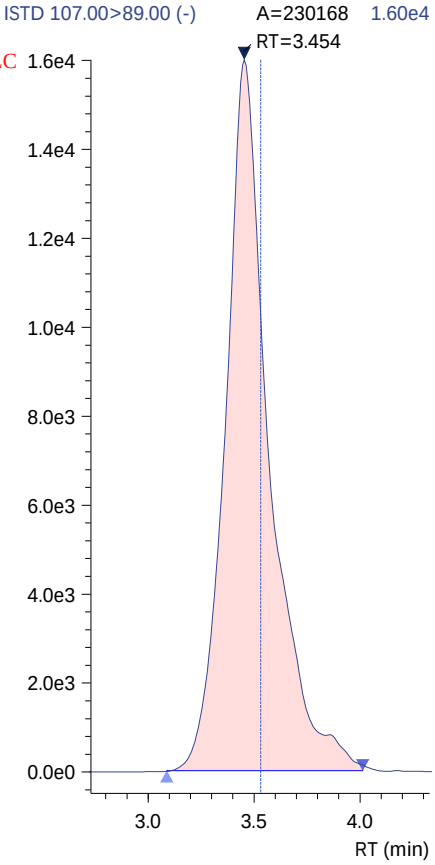
Conc 0.0585
R#1 36.78 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:23:35 PM

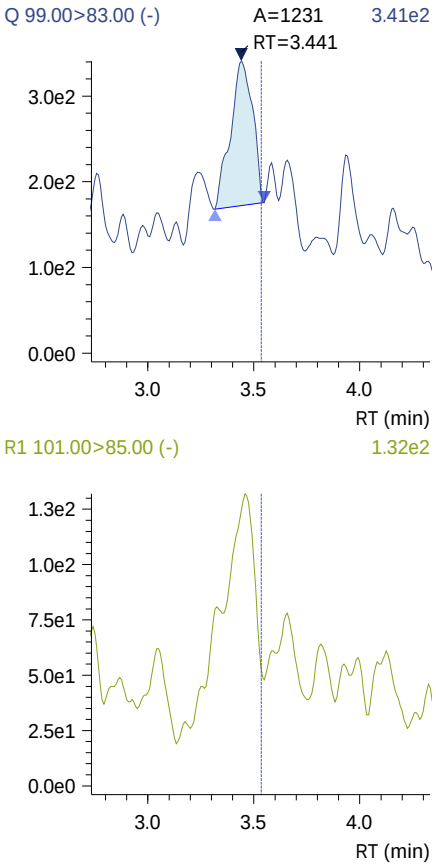
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Project File: I:\LCMS01\DATA\20240620\20240620.damlp

LODV

Sample ID: LODV
Date Acquired: 6/20/2024 8:26:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

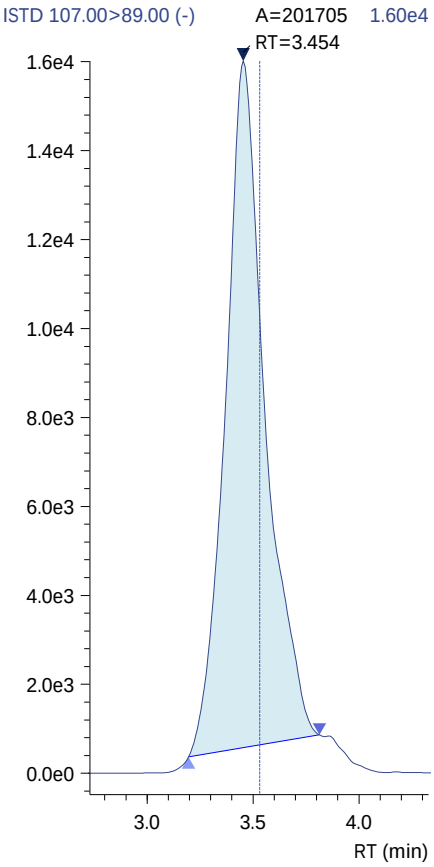
Perchlorate

Conc 0.0418
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

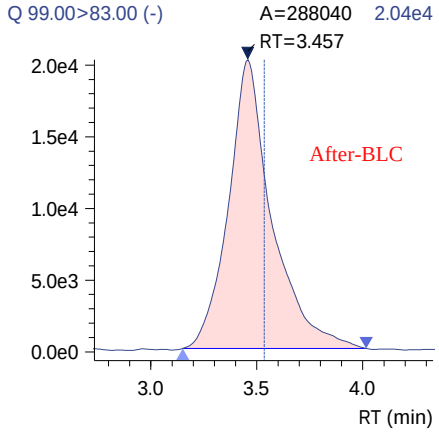
CCV

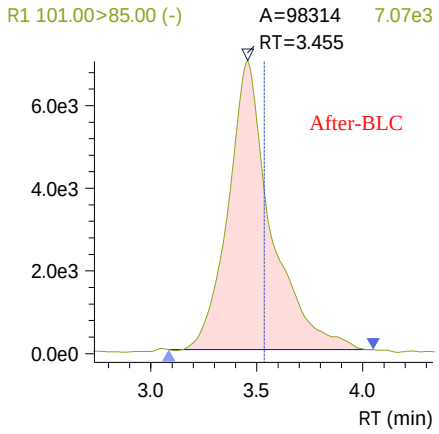
Sample ID: CCV
Date Acquired: 6/20/2024 8:37:30 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.457	288040	207633	9.5014	ng/mL	101.00 >85.00	34.13	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.454	207633	207633	1.0000	ng/mL	----	----	

Perchlorate

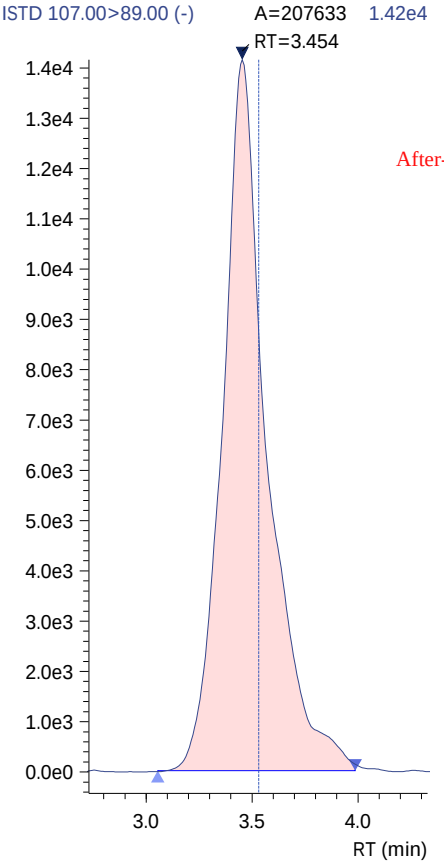
Conc 9.5014
R#1 34.13 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:23:35 PM

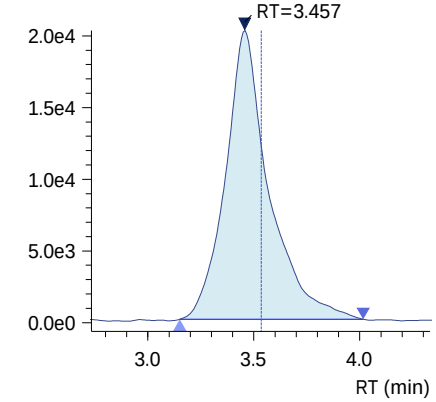
CCV

Sample ID: CCV
Date Acquired: 6/20/2024 8:37:30 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

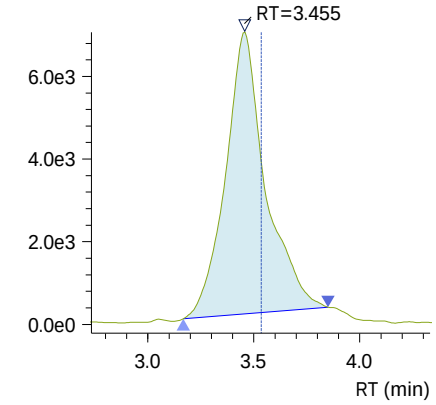
Perchlorate

Conc 10.8534
R#1 31.08 (34.10)

Q 99.00>83.00 (-) A=288040 2.04e4



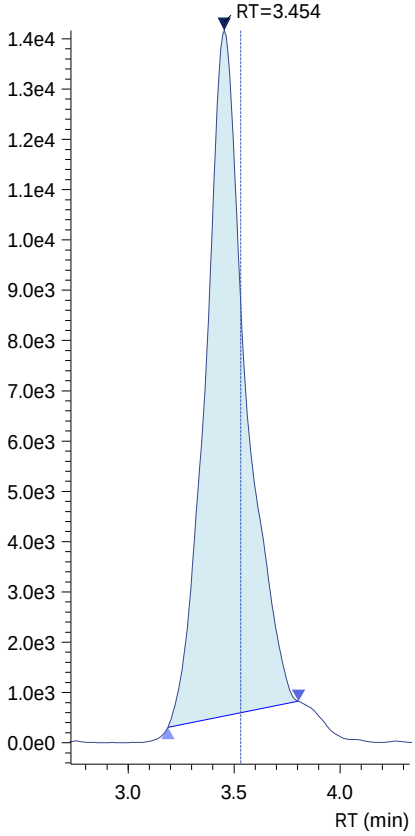
R1 101.00>85.00 (-) A=89524 7.07e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=181768 1.42e4



Insight Report

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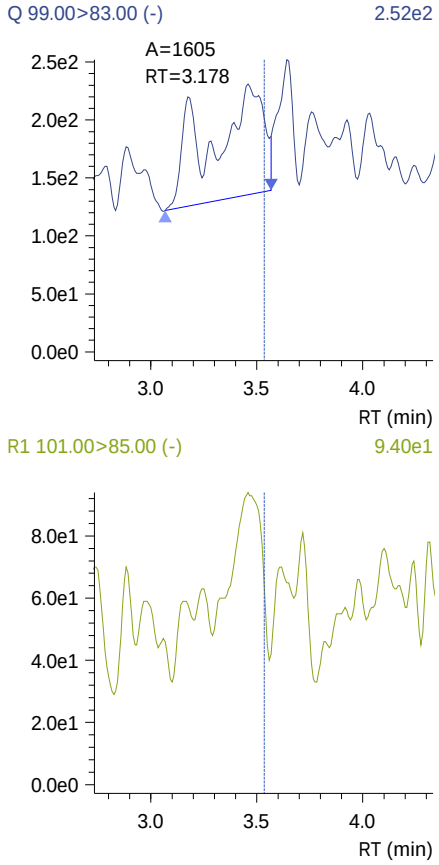
IB

Sample ID: IB
Date Acquired: 6/20/2024 9:28:27 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	234710	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.453	234710	234710	1.0000	ng/mL	----	----	

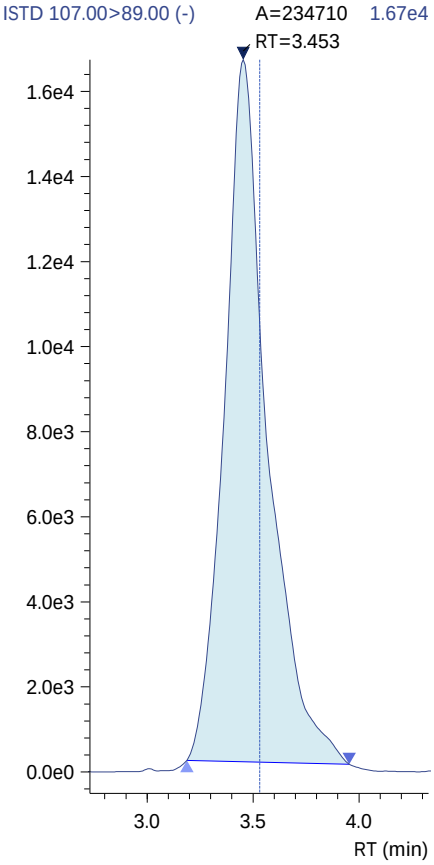
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

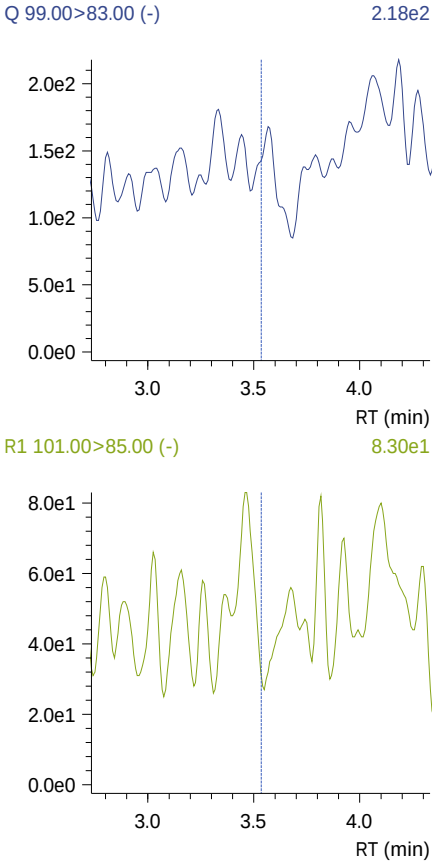
EQ2400332-01MB

Sample ID: EQ2400332-01MB
Date Acquired: 6/20/2024 9:39:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	216278	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.453	216278	216278	1.0000	ng/mL	----	----	

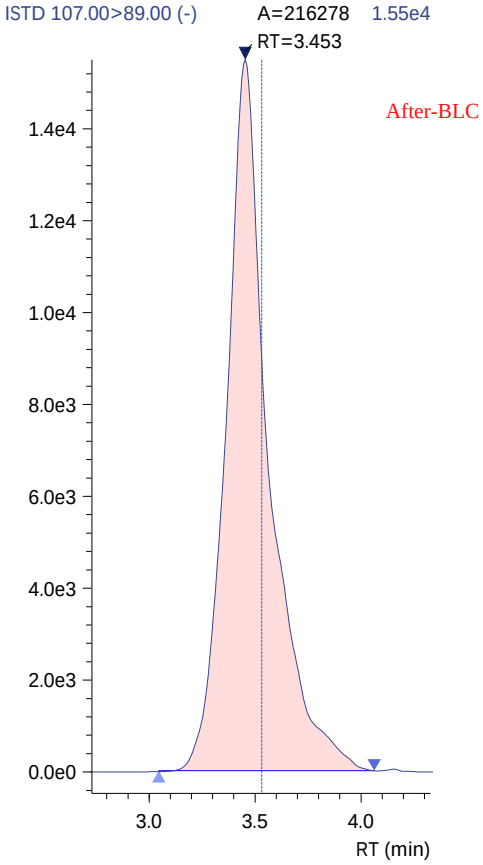
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:23:35 PM

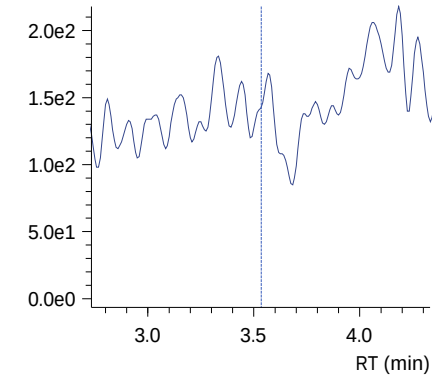
EQ2400332-01MB

Sample ID: EQ2400332-01MB
Date Acquired: 6/20/2024 9:39:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 4

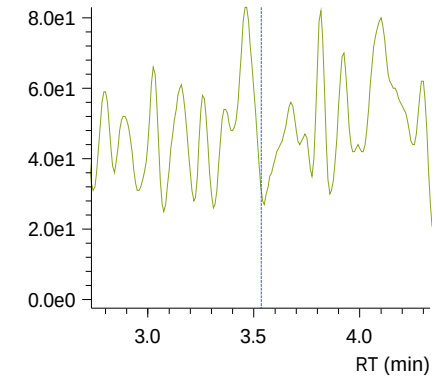
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.18e2



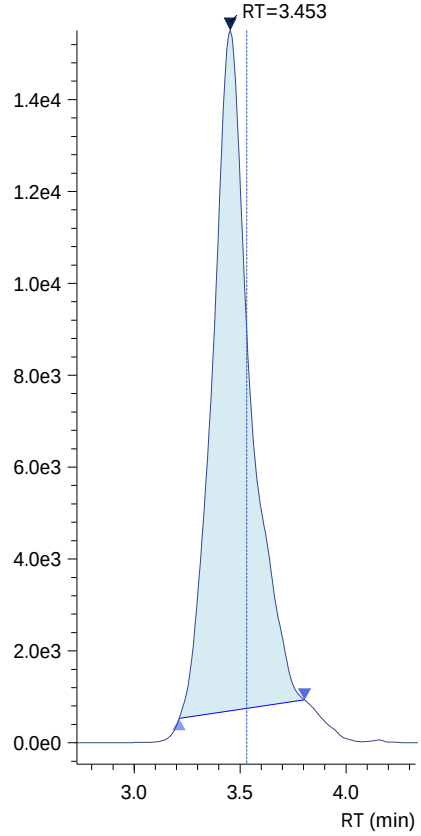
R1 101.00>85.00 (-) 8.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=185082 1.55e4
RT=3.453



Insight Report

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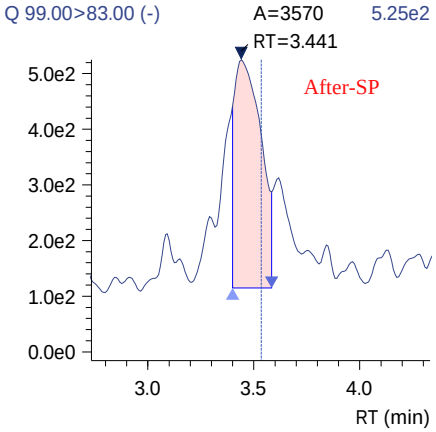
EQ2400332-02LCS

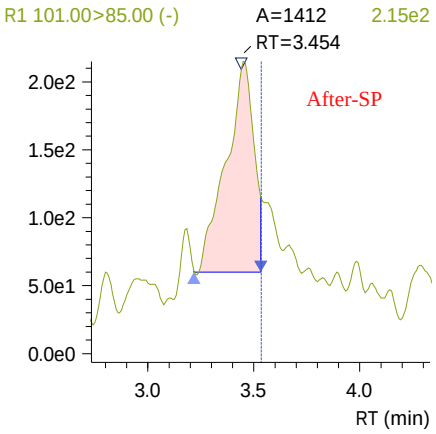
Sample ID: EQ2400332-02LCS
Date Acquired: 6/20/2024 9:45:07 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.441	3570	207782	0.1177	ng/mL	101.00 >85.00	39.56	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.451	2077 82	207782	1.0000	ng/mL	----	----	

Perchlorate

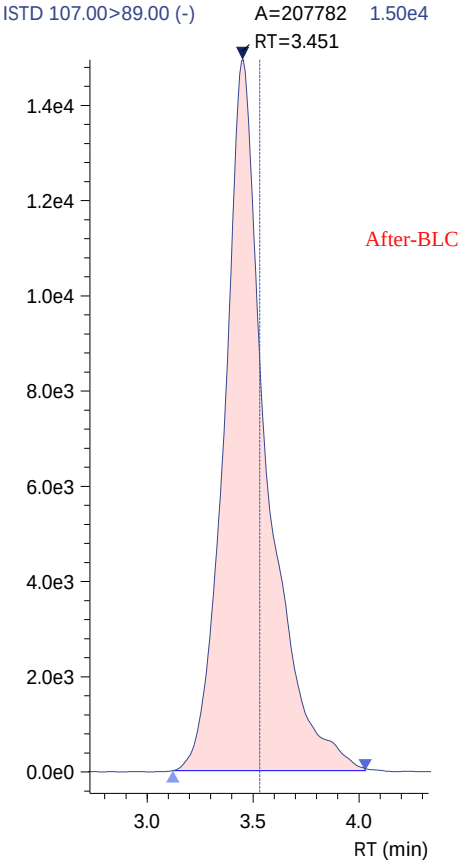
Conc 0.1177
R#1 39.56 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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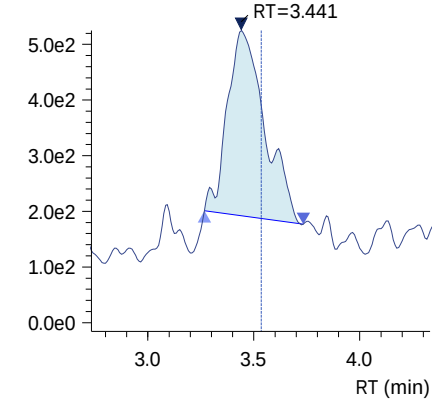
EQ2400332-02LCS

Sample ID: EQ2400332-02LCS
Date Acquired: 6/20/2024 9:45:07 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 4

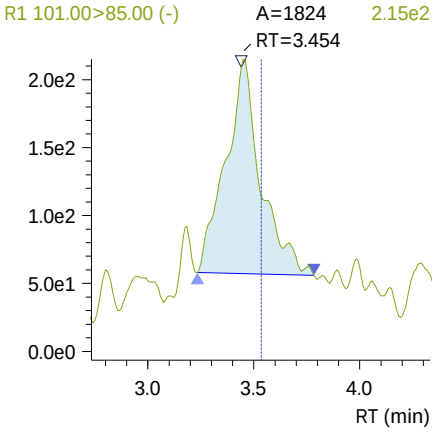
Perchlorate

Conc 0.1524
R#1 44.34 (34.10)

Q 99.00>83.00 (-) A=4114 5.25e2



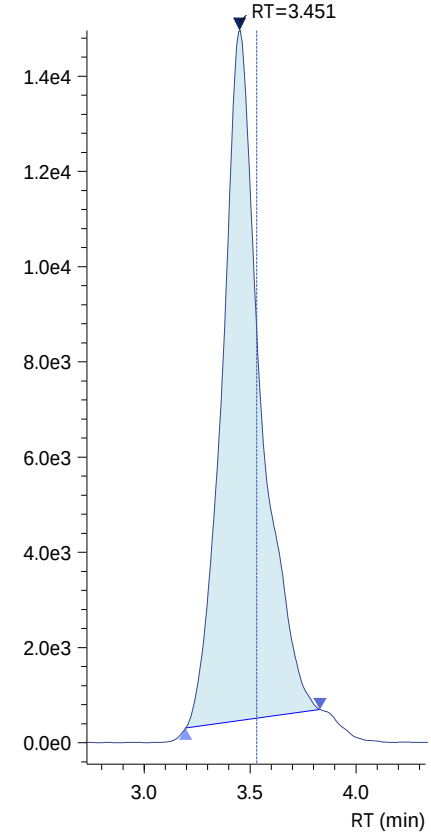
R1 101.00>85.00 (-) A=1824 2.15e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=184940 1.50e4



Insight Report

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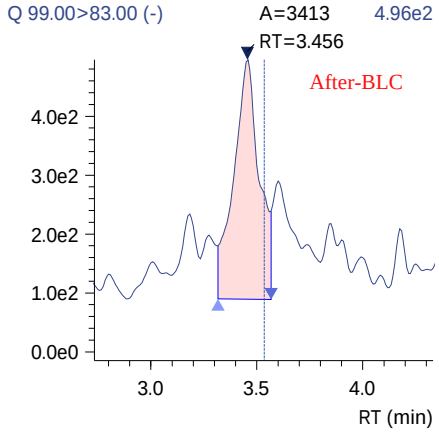
EQ2400332-03DLCS

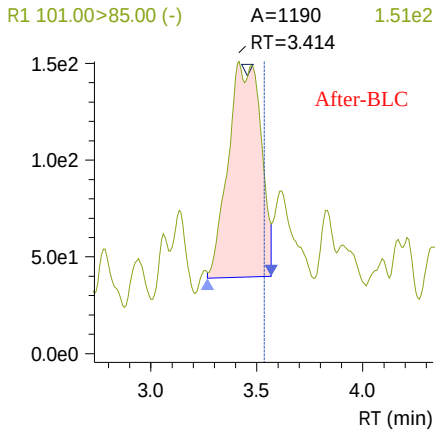
Sample ID: EQ2400332-03DLCS
Date Acquired: 6/20/2024 9:50:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.456	3413	203512	0.1149	ng/mL	101.00 >85.00	34.86	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.452	2035 12	203512	1.0000	ng/mL	----	----	

Perchlorate

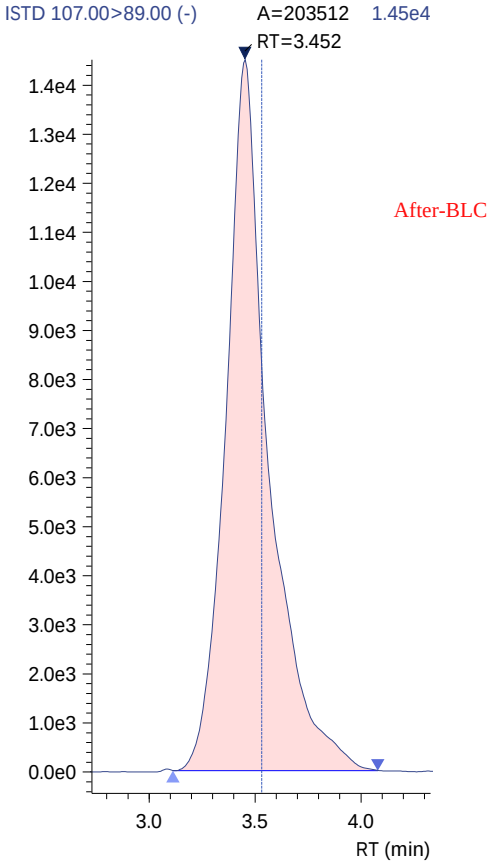
Conc 0.1149
R#1 34.86 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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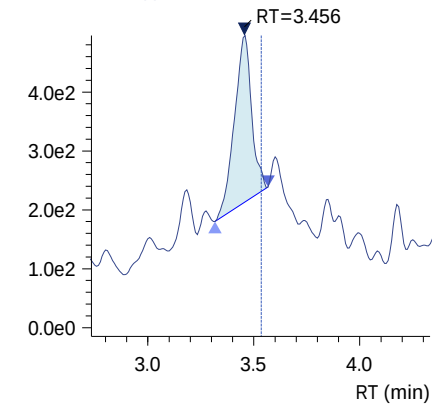
EQ2400332-03DLCS

Sample ID: EQ2400332-03DLCS
Date Acquired: 6/20/2024 9:50:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 4

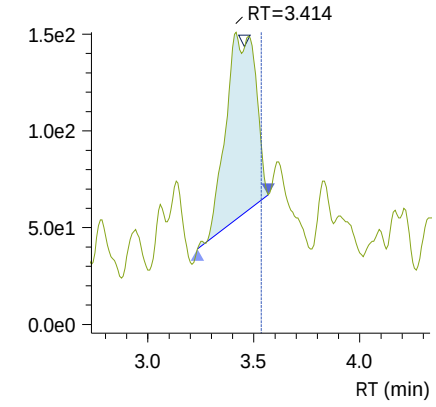
Perchlorate

Conc 0.0617
R#1 57.31 (34.10)

Q 99.00>83.00 (-) A=1613 4.96e2



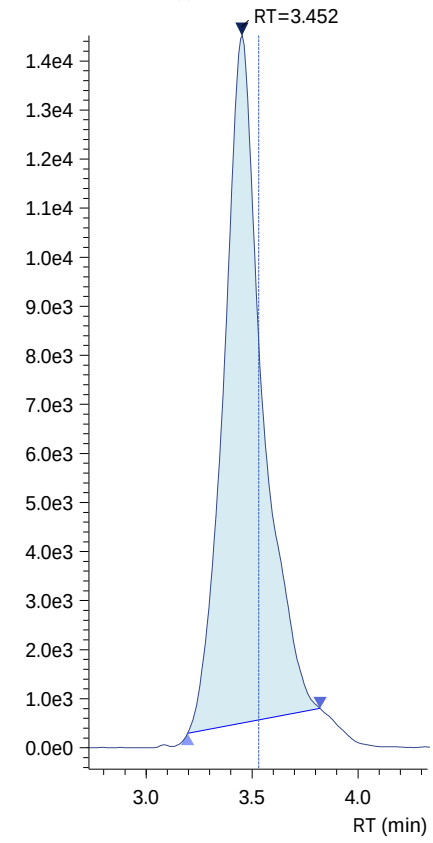
R1 101.00>85.00 (-) A=925 1.51e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=178979 1.45e4



Insight Report

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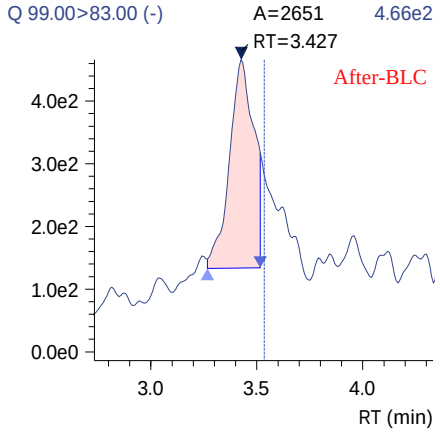
EQ2400328-04ICS

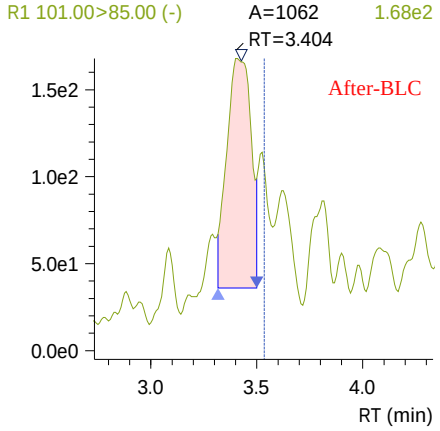
Sample ID: EQ2400328-04ICS
Date Acquired: 6/20/2024 9:56:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.427	2651	181762	0.0999	ng/mL	101.00 >85.00	40.06	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.449	1817 62	181762	1.0000	ng/mL	----	----	

Perchlorate

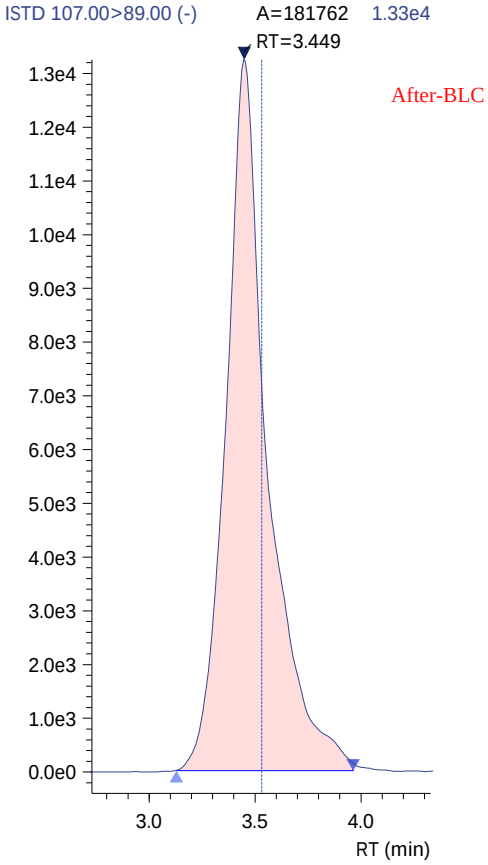
Conc 0.0999
R#1 40.06 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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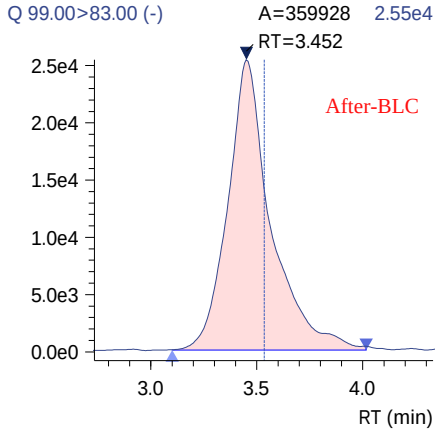
CCV

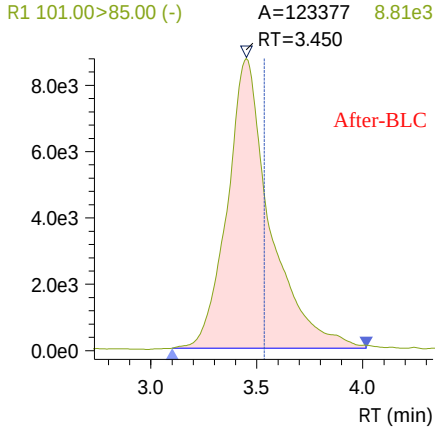
Sample ID: CCV
Date Acquired: 6/20/2024 10:34:58 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.452	359928	245753	10.0311	ng/mL	101.00 >85.00	34.28	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	245753	245753	1.0000	ng/mL	----	----	

Perchlorate

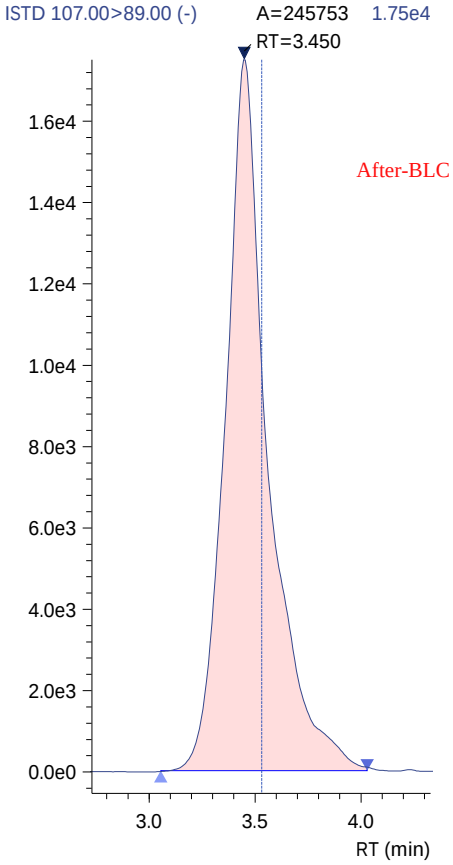
Conc 10.0311
R#1 34.28 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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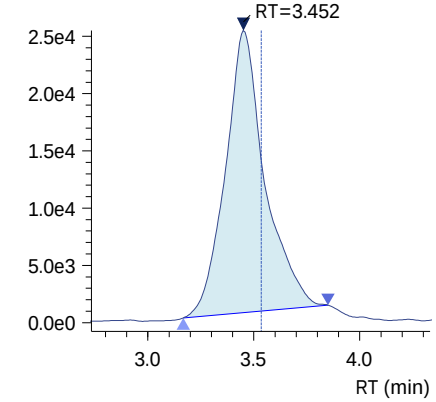
CCV

Sample ID: CCV
Date Acquired: 6/20/2024 10:34:58 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

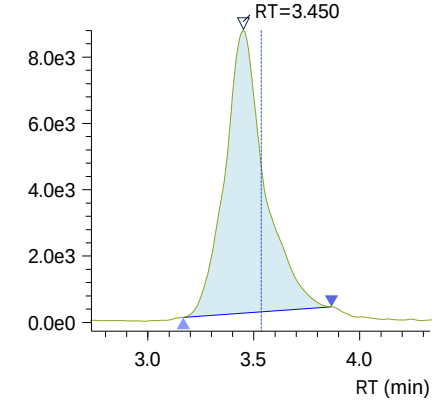
Perchlorate

Conc 10.2147
R#1 34.92 (34.10)

Q 99.00>83.00 (-) A=319048 2.55e4



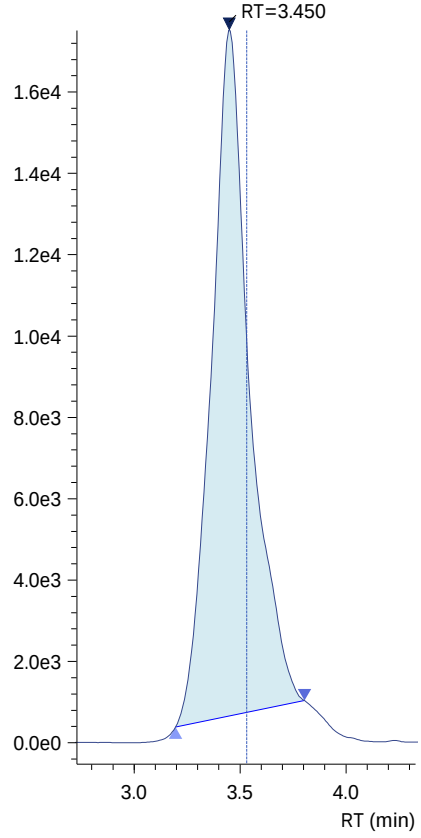
R1 101.00>85.00 (-) A=111395 8.81e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=213925 1.75e4



Insight Report

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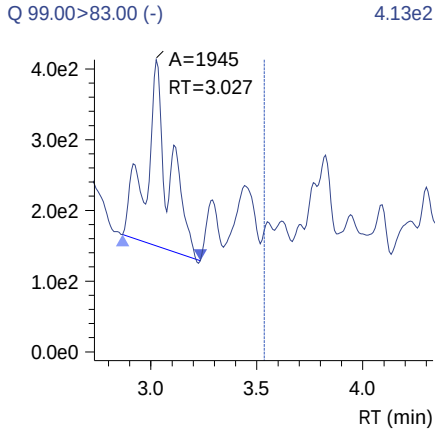
IB

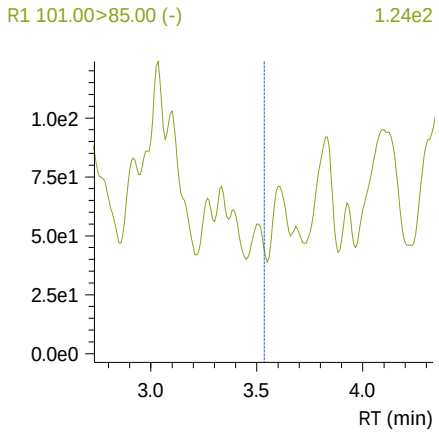
Sample ID: IB
Date Acquired: 6/20/2024 10:40:32 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-020.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	221188	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.447	221188	221188	1.0000	ng/mL	----	----	

Perchlorate

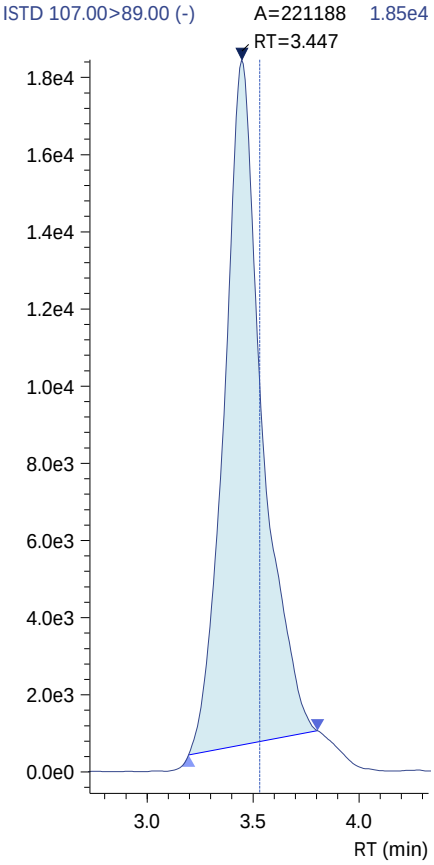
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

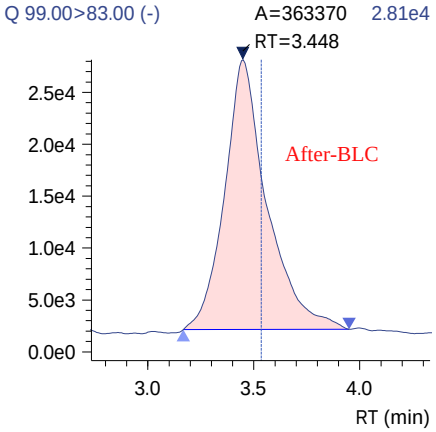
CCV

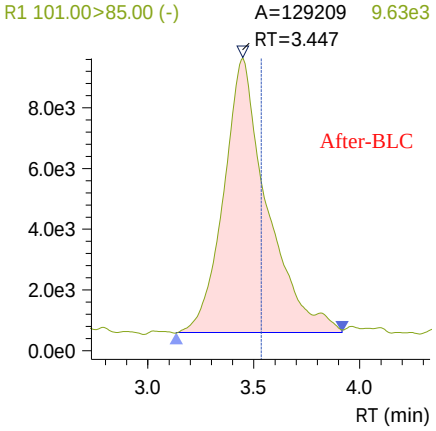
Sample ID: CCV
Date Acquired: 6/20/2024 12:48:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-043.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.448	363370	254706	9.7711	ng/mL	101.00 >85.00	35.56	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.444	254706	254706	1.0000	ng/mL	----	----	

Perchlorate

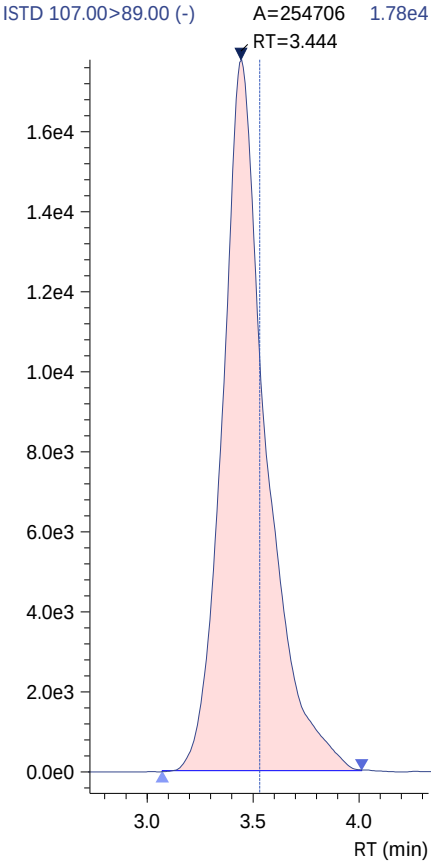
Conc 9.7711
R#1 35.56 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



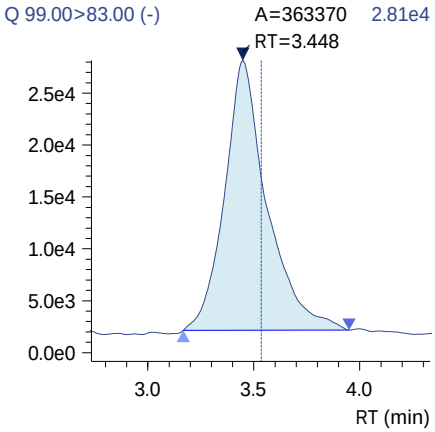
Insight Report

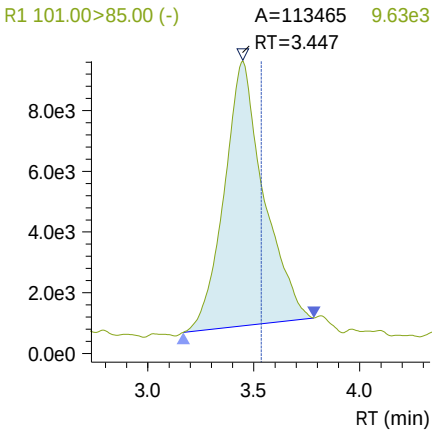
CCV

Sample ID: CCV
Date Acquired: 6/20/2024 12:48:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-043.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

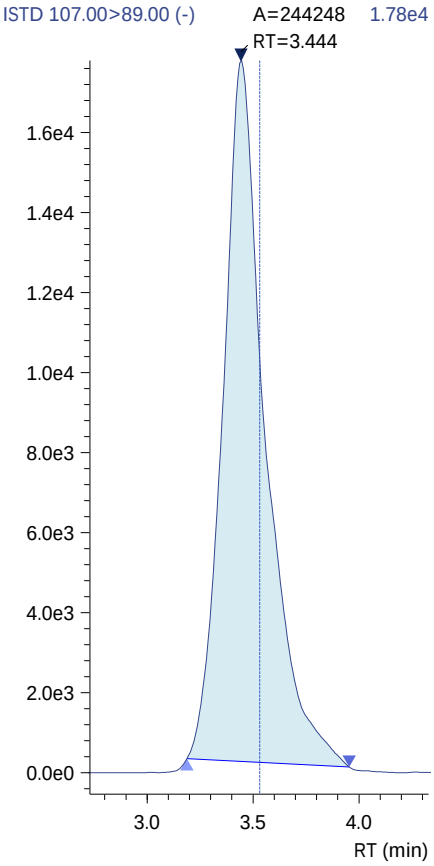
Conc 10.1895
R#1 31.23 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

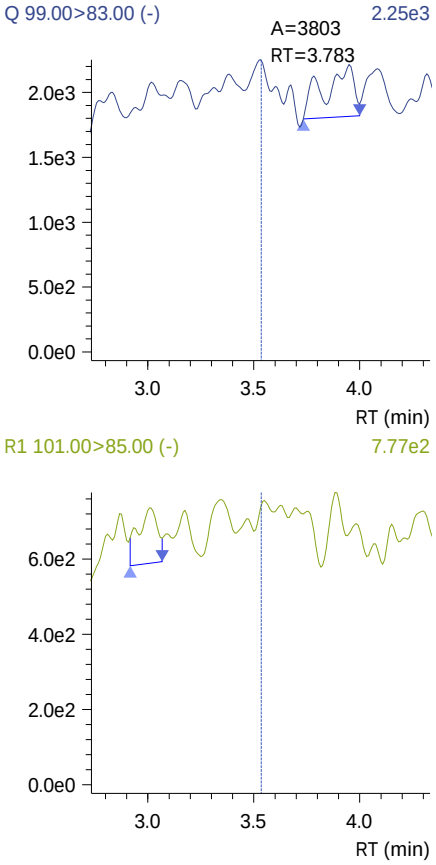
IB

Sample ID: IB
Date Acquired: 6/20/2024 12:53:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-044.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	230558	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.449	230558	230558	1.0000	ng/mL	----	----	

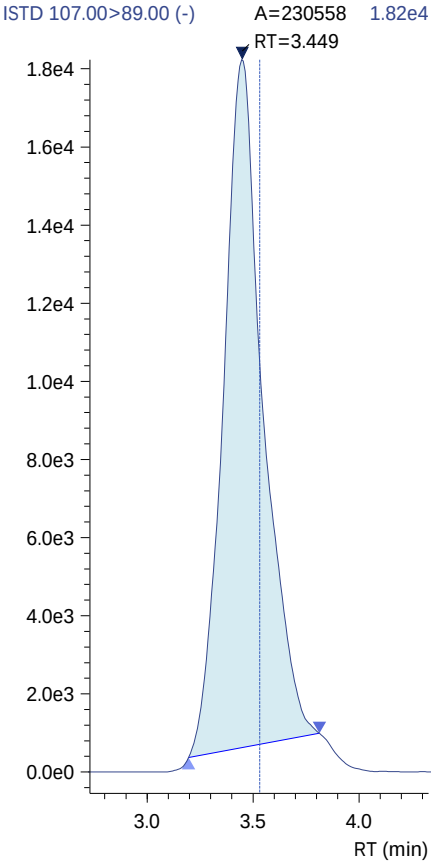
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

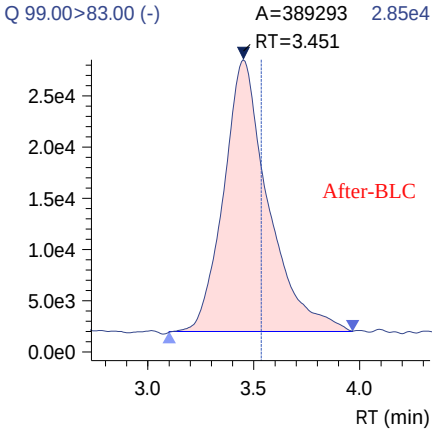
E2400687-001x10000

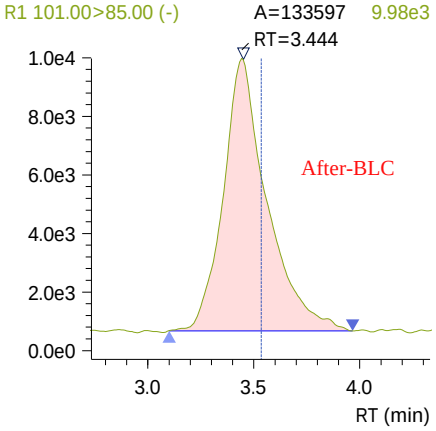
Sample ID: E2400687-001
Date Acquired: 6/20/2024 1:04:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-046.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.451	389293	223977	11.9043	ng/mL	101.00 >85.00	34.32	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.446	223977	223977	1.0000	ng/mL	----	----	

Perchlorate

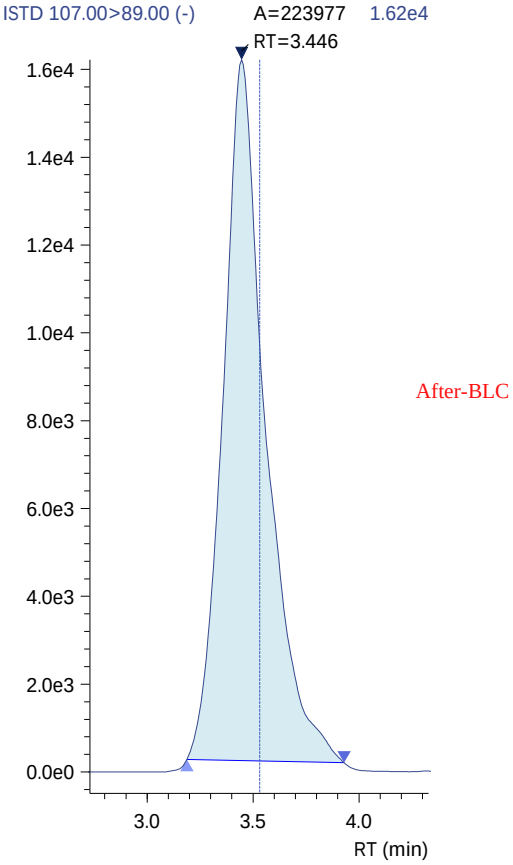
Conc 11.9043
R#1 34.32 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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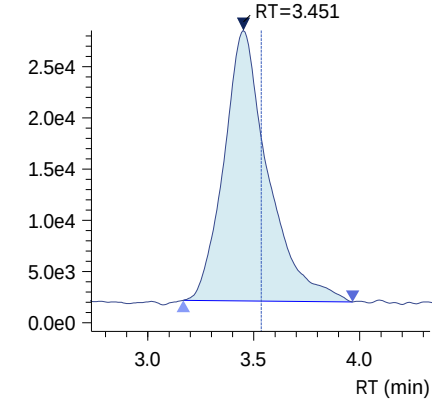
E2400687-001x10000

Sample ID: E2400687-001
Date Acquired: 6/20/2024 1:04:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-046.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 4

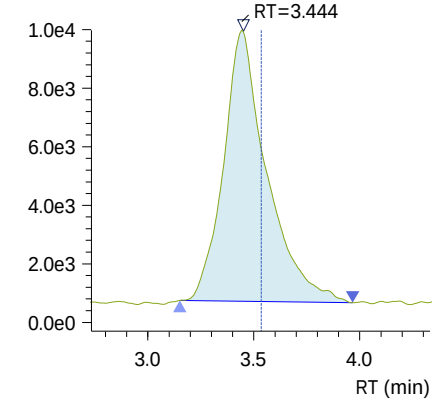
Perchlorate

Conc 11.7387
R#1 34.30 (34.10)

Q 99.00>83.00 (-) A=383876 2.85e4



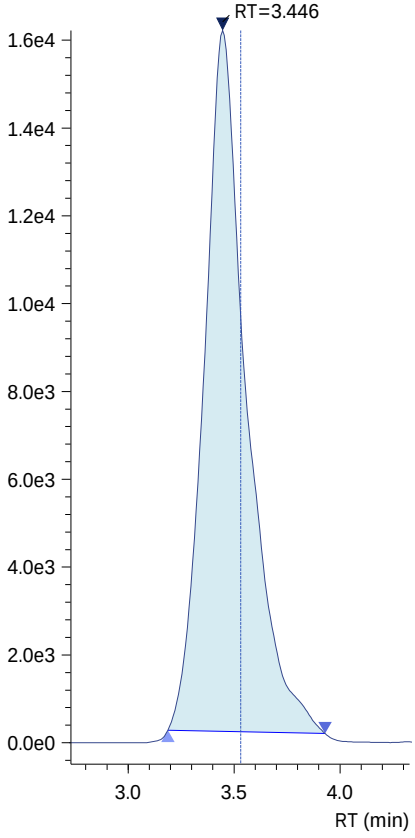
R1 101.00>85.00 (-) A=131667 9.98e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=223977 1.62e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

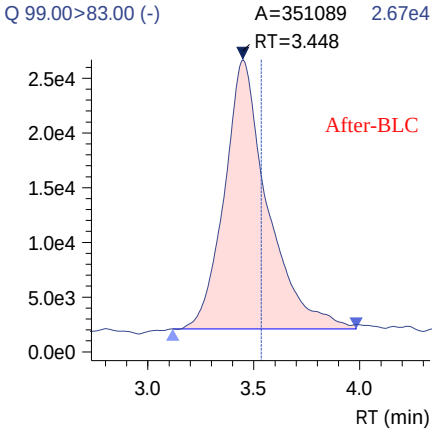
E2400687-002x10000

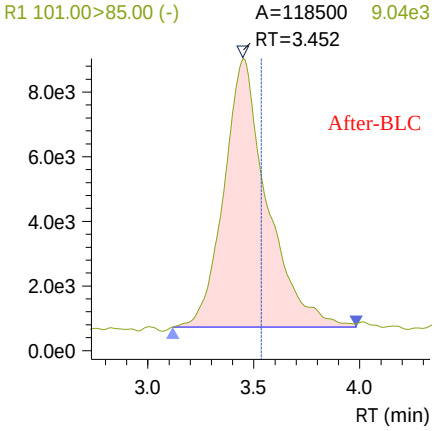
Sample ID: E2400687-002
Date Acquired: 6/20/2024 1:10:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-047.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.448	351089	240873	9.9830	ng/mL	101.00 >85.00	33.75	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.444	240873	240873	1.0000	ng/mL	----	----	

Perchlorate

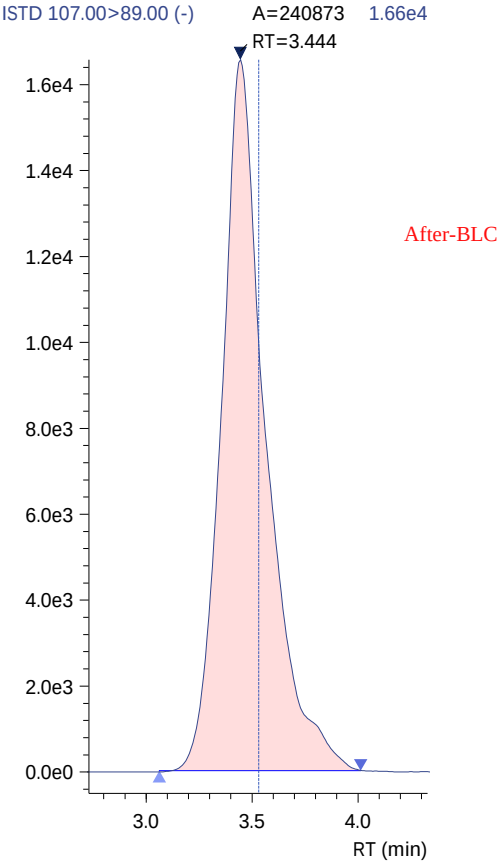
Conc 9.9830
R#1 33.75 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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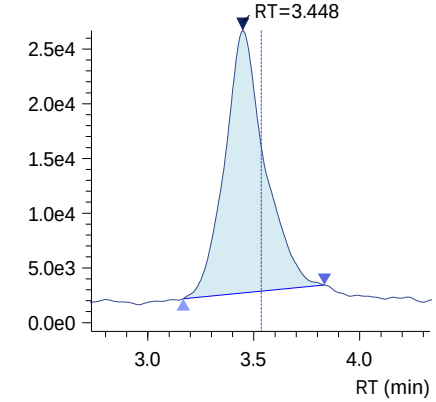
E2400687-002x10000

Sample ID: E2400687-002
Date Acquired: 6/20/2024 1:10:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-047.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 4

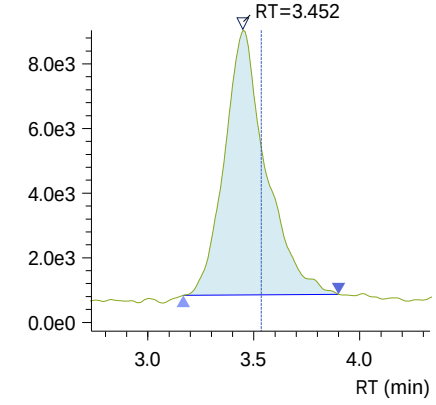
Perchlorate

Conc 10.3853
R#1 35.58 (34.10)

Q 99.00>83.00 (-) A=315803 2.67e4
RT=3.448



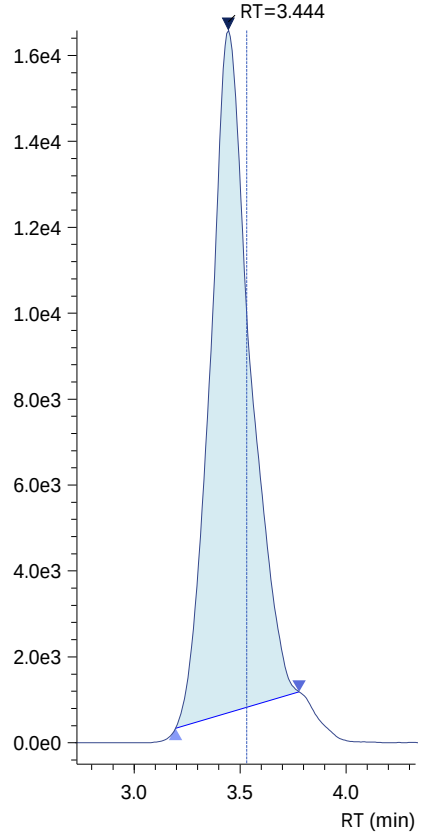
R1 101.00>85.00 (-) A=112361 9.04e3
RT=3.452



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=208272 1.66e4
RT=3.444



Insight Report

Printed at 6/25/2024 12:18:43 PM

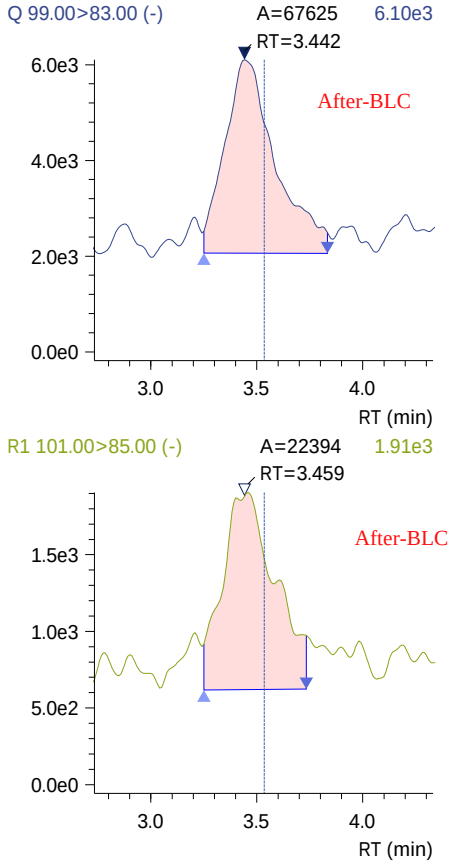
E2400687-003x1000

Sample ID: E2400687-003
Date Acquired: 6/20/2024 1:15:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-048.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.442	67625	228247	2.0292	ng/mL	101.00 >85.00	33.11	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.445	228247	228247	1.0000	ng/mL	----	----	

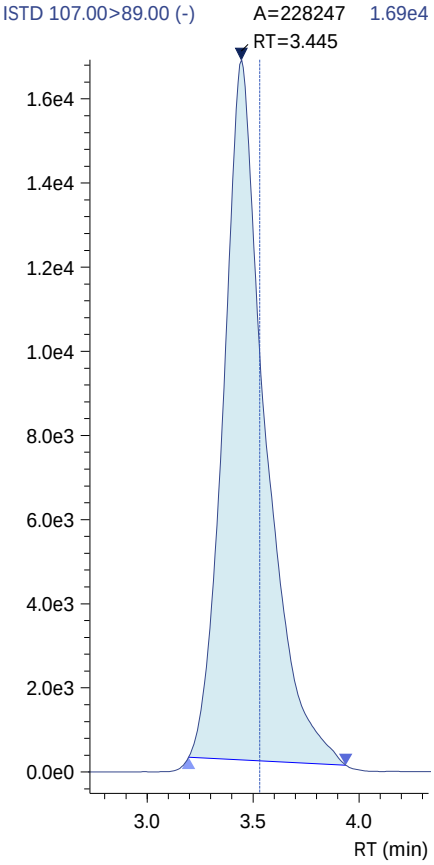
Perchlorate

Conc 2.0292
R#1 33.11 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

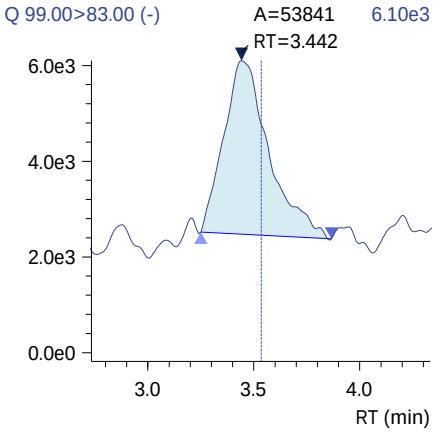
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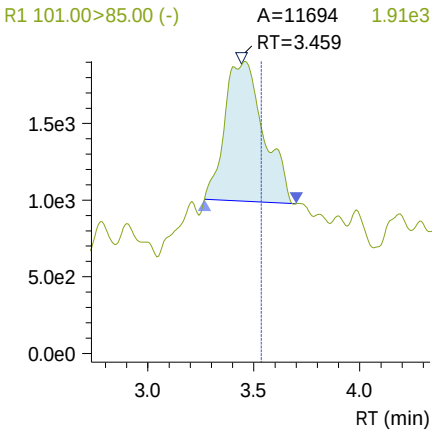
E2400687-003x1000

Sample ID: E2400687-003
Date Acquired: 6/20/2024 1:15:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-048.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

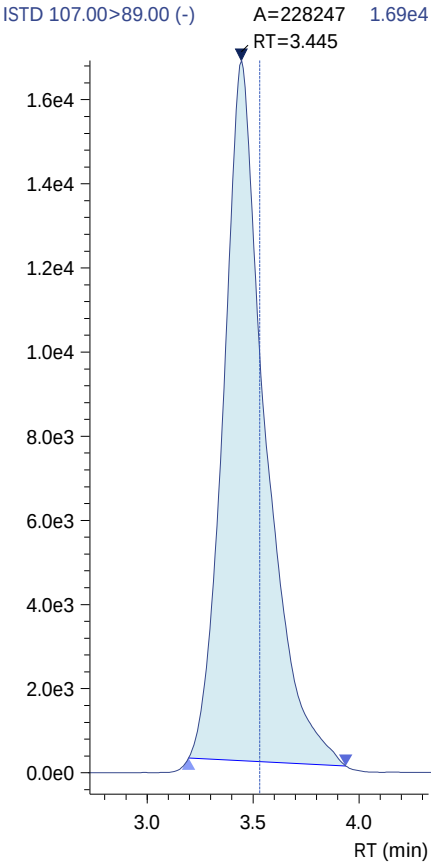
Conc 1.6156
R#1 21.72 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

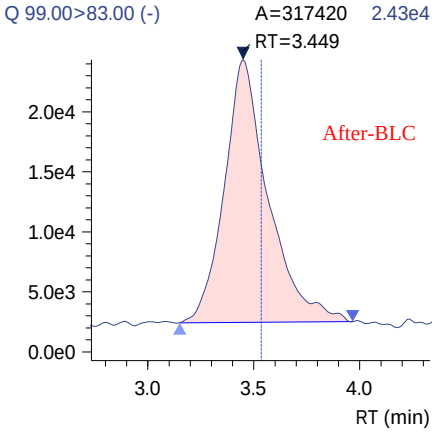
E2400687-004x1000

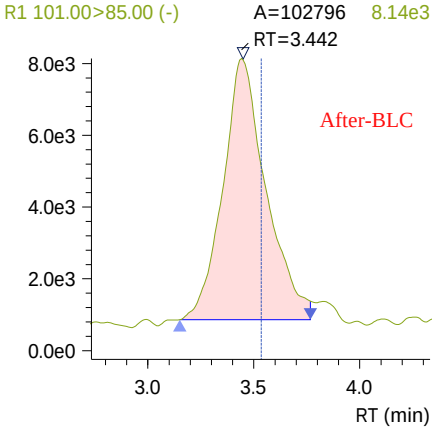
Sample ID: E2400687-004
Date Acquired: 6/20/2024 1:21:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-049.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.449	3174 20	224837	9.6694	ng/mL	101.00 >85.00	32.39	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.445	2248 37	224837	1.0000	ng/mL	----	----	

Perchlorate

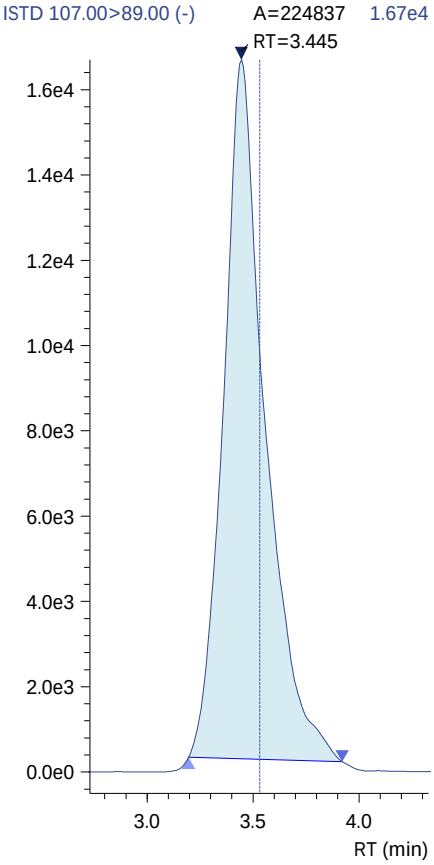
Conc 9.6694
R#1 32.39 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

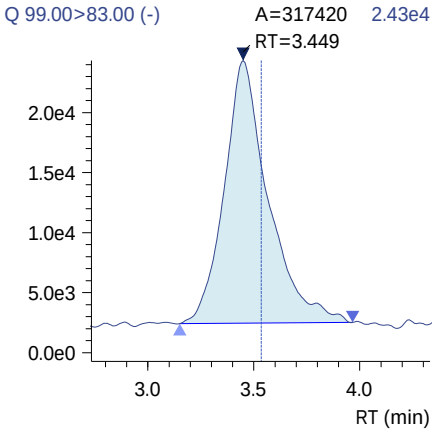
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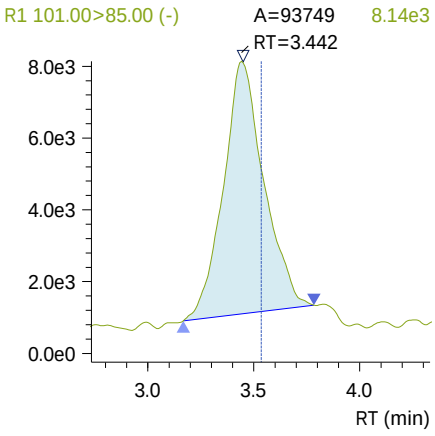
E2400687-004x1000

Sample ID: E2400687-004
Date Acquired: 6/20/2024 1:21:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-049.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

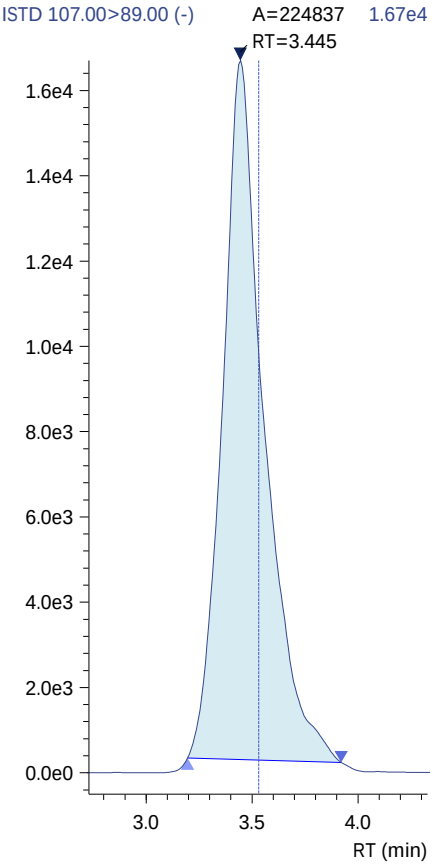
Conc 9.6694
R#1 29.54 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

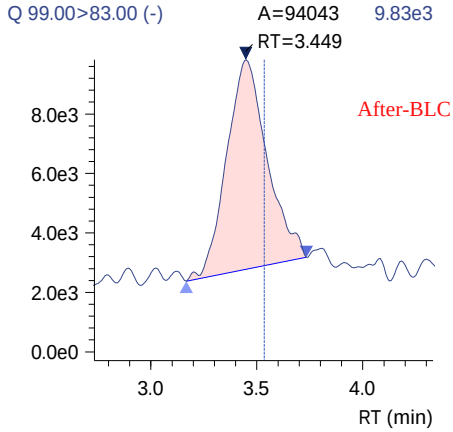
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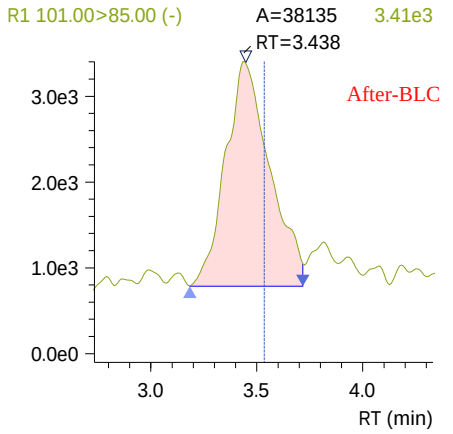
Sample ID: E2400687-005
Date Acquired: 6/20/2024 1:26:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-050.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.449	94043	214450	3.0035	ng/mL	101.00 >85.00	40.55	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.444	214450	214450	1.0000	ng/mL	----	----	

Perchlorate

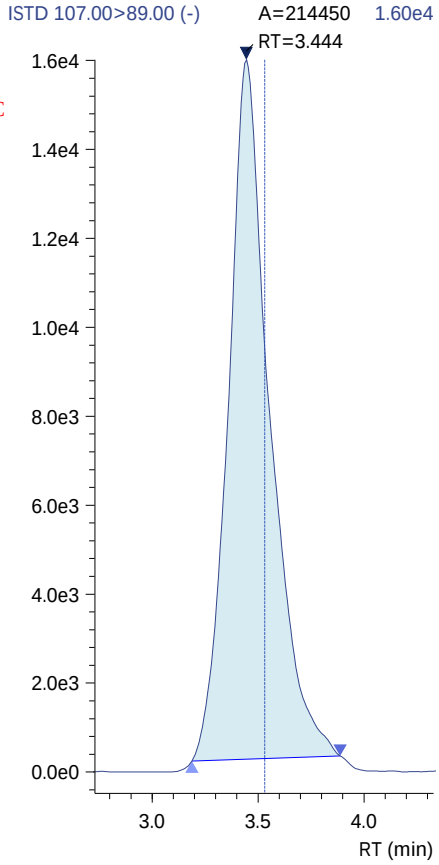
Conc 3.0035
R#1 40.55 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

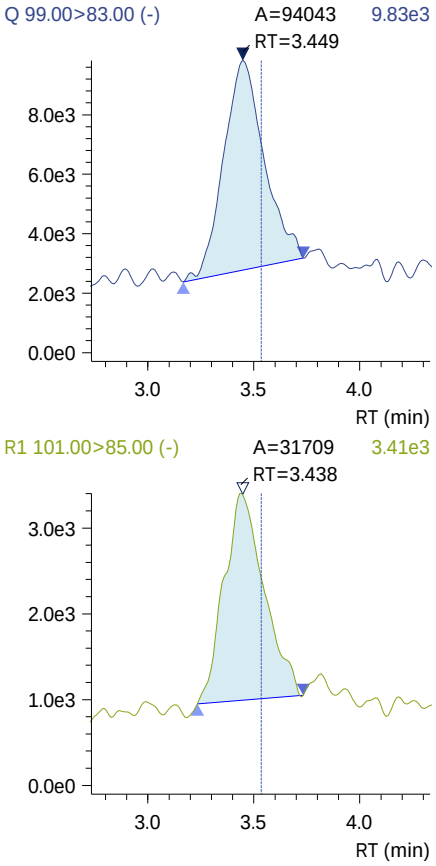
Printed at 6/25/2024 12:23:35 PM

E2400687-005x100000

Sample ID: E2400687-005
Date Acquired: 6/20/2024 1:26:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-050.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 4

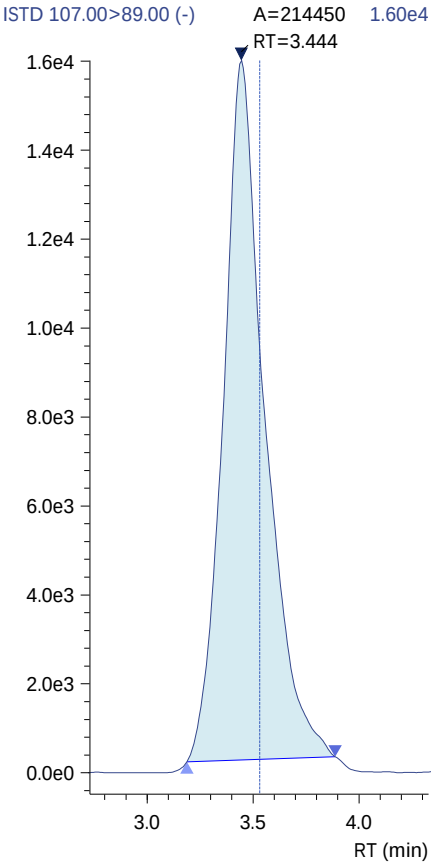
Perchlorate

Conc 3.0035
R#1 33.72 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

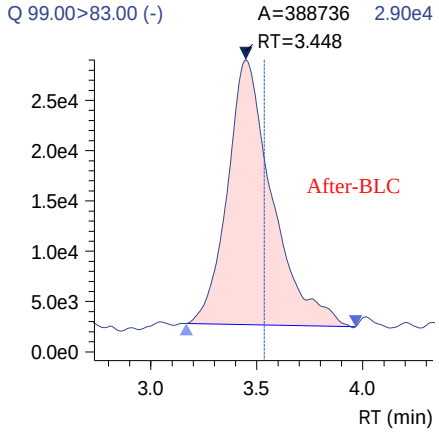
CCV

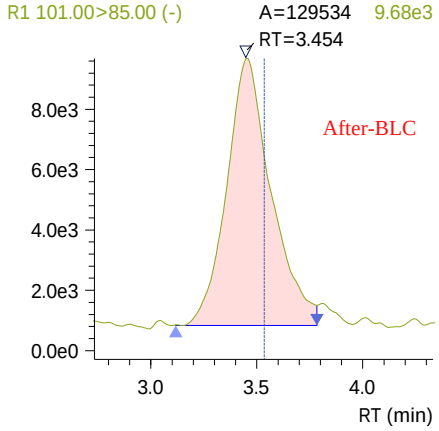
Sample ID: CCV
Date Acquired: 6/20/2024 1:54:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-054.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.448	3887 36	261796	10.1 701	ng/mL	101.00 >85.00	33.32	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.447	2617 96	261796	1.0000	ng/mL	----	----	

Perchlorate

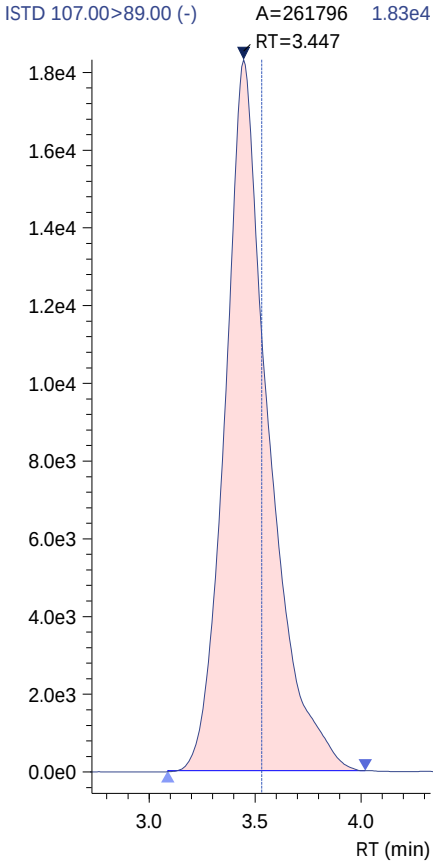
Conc 10.1701
R#1 33.32 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/25/2024 12:23:35 PM

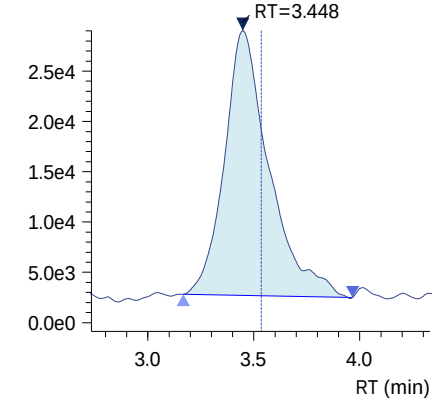
CCV

Sample ID: CCV
Date Acquired: 6/20/2024 1:54:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-054.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

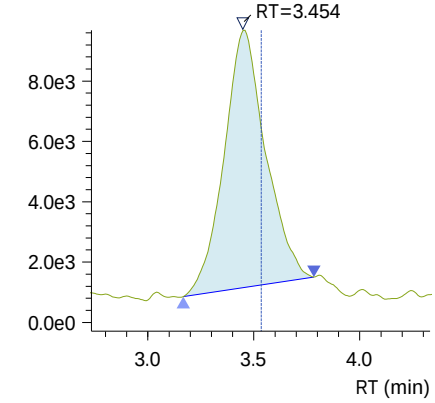
Perchlorate

Conc 10.6345
R#1 30.04 (34.10)

Q 99.00>83.00 (-) A=388736 2.90e4
RT=3.448



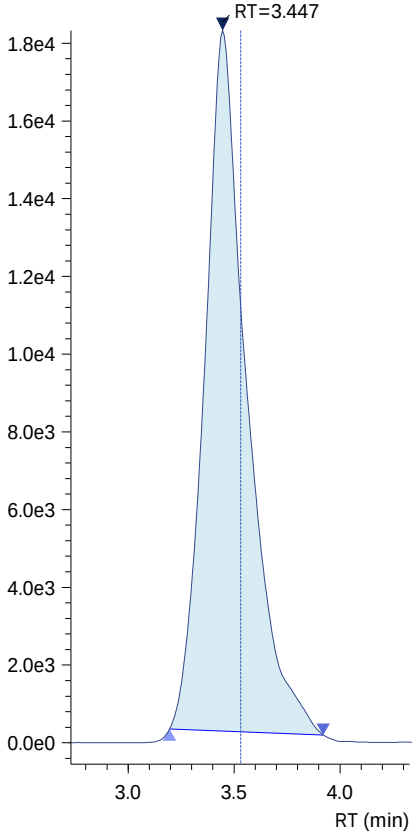
R1 101.00>85.00 (-) A=116761 9.68e3
RT=3.454



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=250364 1.83e4
RT=3.447



Insight Report

Printed at 6/25/2024 12:18:43 PM

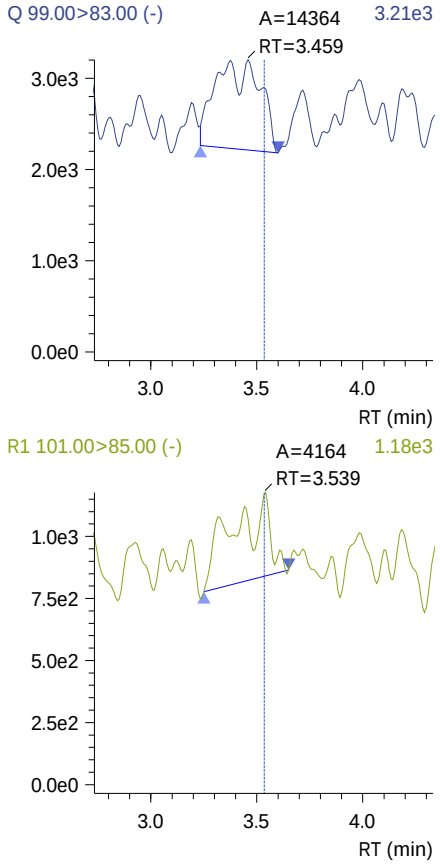
IB

Sample ID: IB
Date Acquired: 6/20/2024 1:59:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-055.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	252577	----	ng/mL	101.00 >85.00	28.99	23.86 -43.30
Sodium Perchlorate-18O4 _IS	Auto	3.444	2525 77	252577	1.0000	ng/mL	----	----	

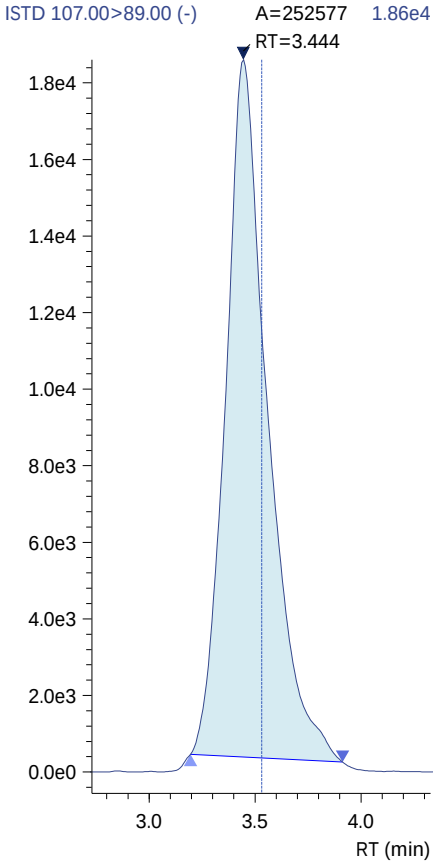
Perchlorate

Conc ----
R#1 28.99 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

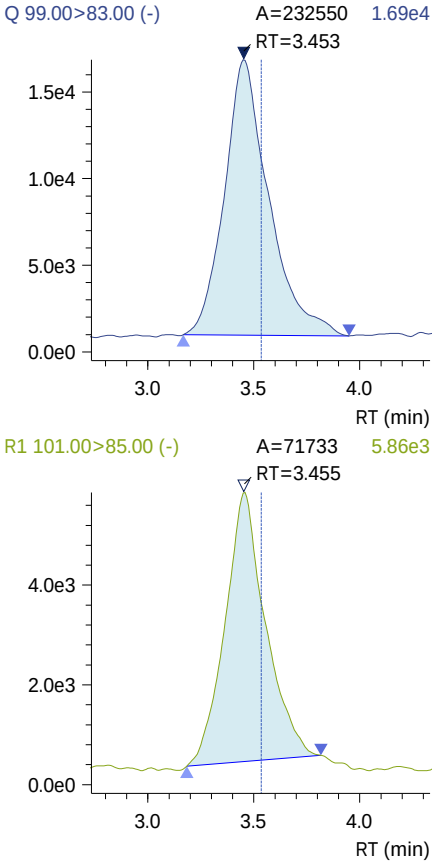
E2400687-006x10000

Sample ID: E2400687-006
Date Acquired: 6/20/2024 2:33:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-061.lcd
Vial: 34 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	232550	201111	7.9198	ng/mL	101.00 >85.00	30.85	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.446	201111	201111	1.0000	ng/mL	----	----	

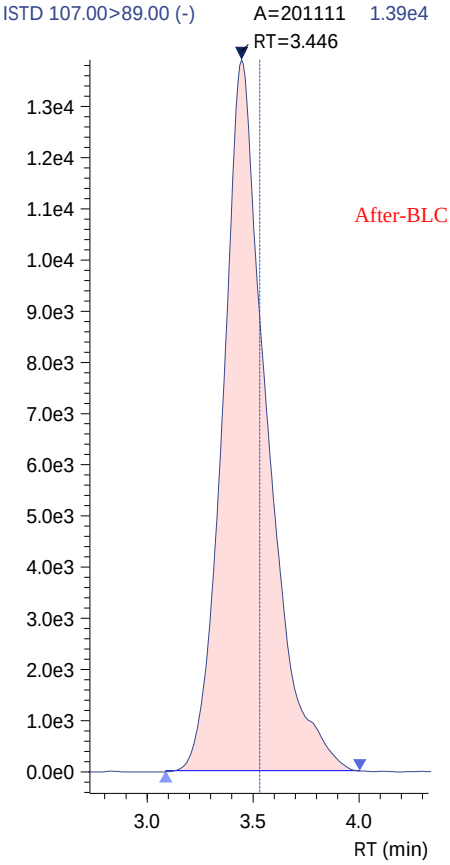
Perchlorate

Conc 7.9198
R#1 30.85 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

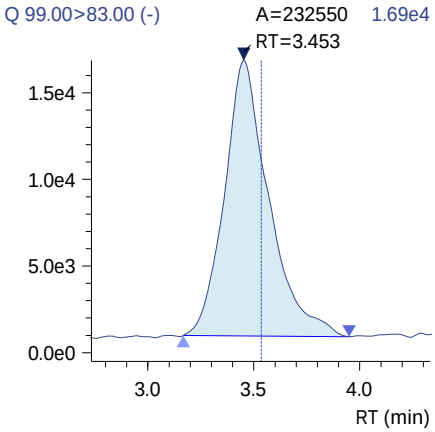
Insight Report

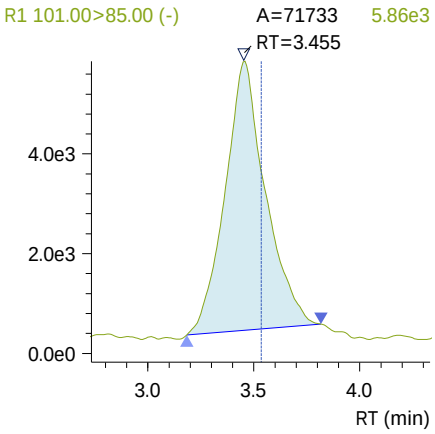
E2400687-006x10000

Sample ID: E2400687-006
Date Acquired: 6/20/2024 2:33:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-061.lcd
Vial: 34 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

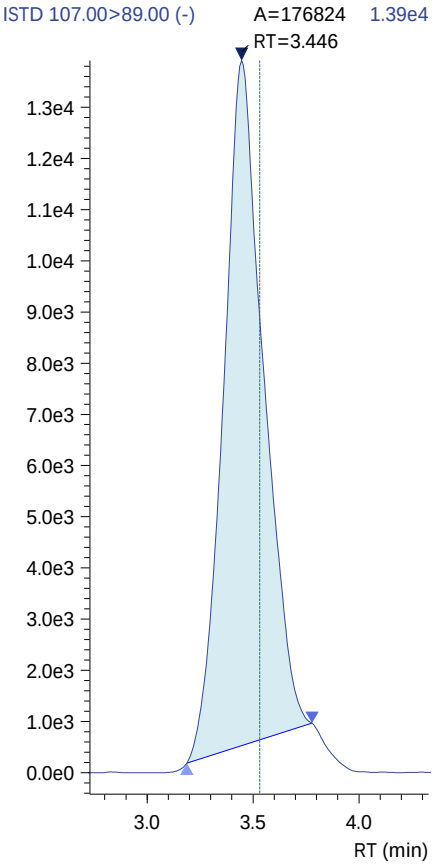
Conc 9.0076
R#1 30.85 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

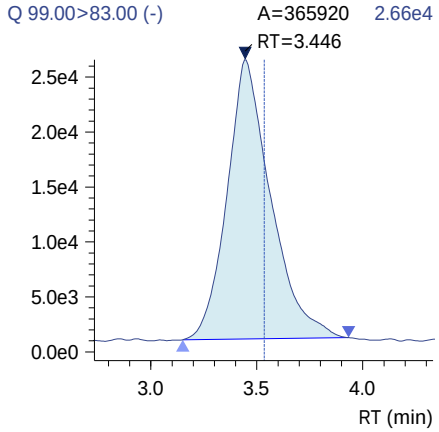
CCV

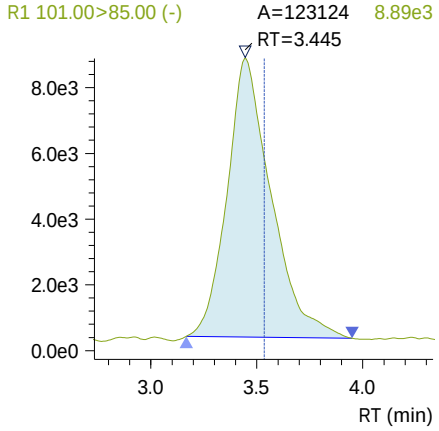
Sample ID: CCV
Date Acquired: 6/20/2024 2:38:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-062.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.446	3659 20	247639	10.1 204	ng/mL	101.00 >85.00	33.65	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.443	2476 39	247639	1.0000	ng/mL	----	----	

Perchlorate

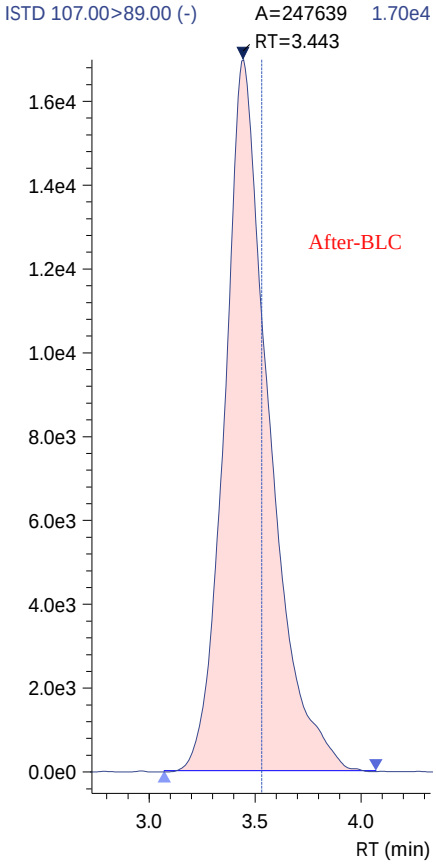
Conc 10.1204
R#1 33.65 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



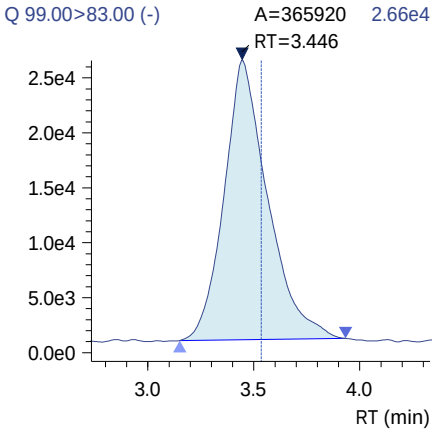
Insight Report

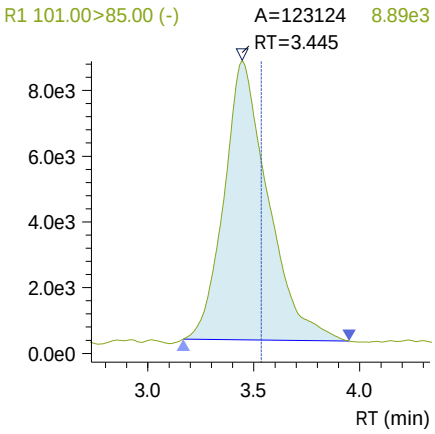
CCV

Sample ID: CCV
Date Acquired: 6/20/2024 2:38:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-062.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

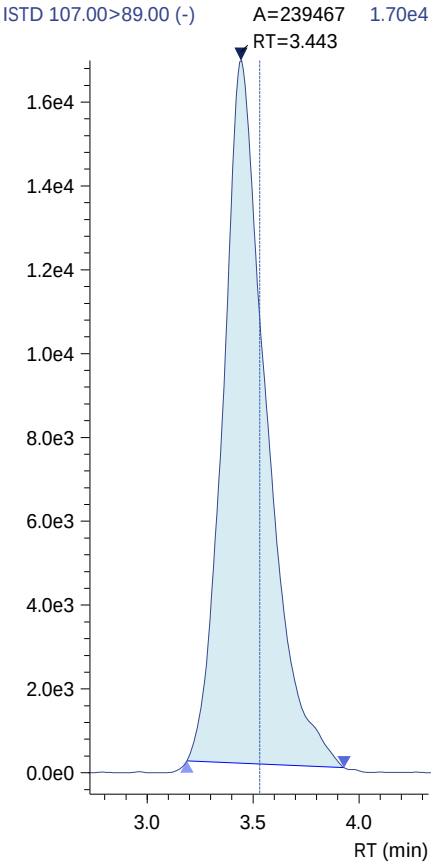
Conc 10.4658
R#1 33.65 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

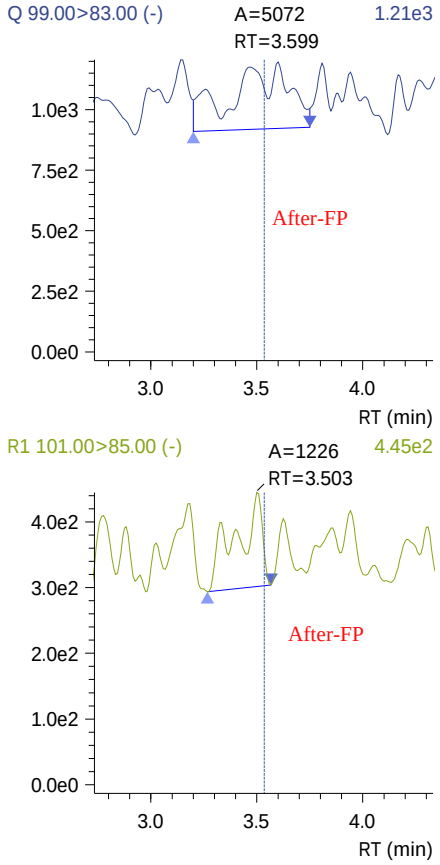
IB

Sample ID: IB
Date Acquired: 6/20/2024 2:44:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-063.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	251572	----	ng/mL	101.00 >85.00	24.17	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.446	2515 72	251572	1.0000	ng/mL	----	----	

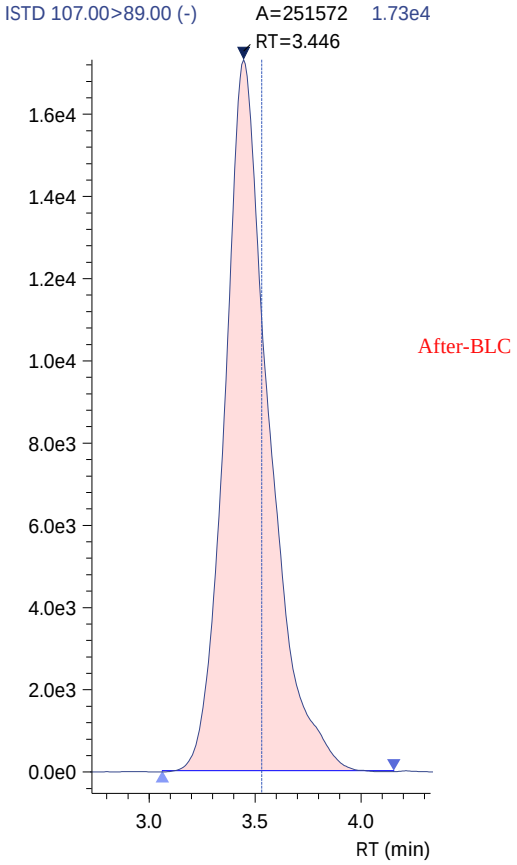
Perchlorate

Conc ----
R#1 24.17 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



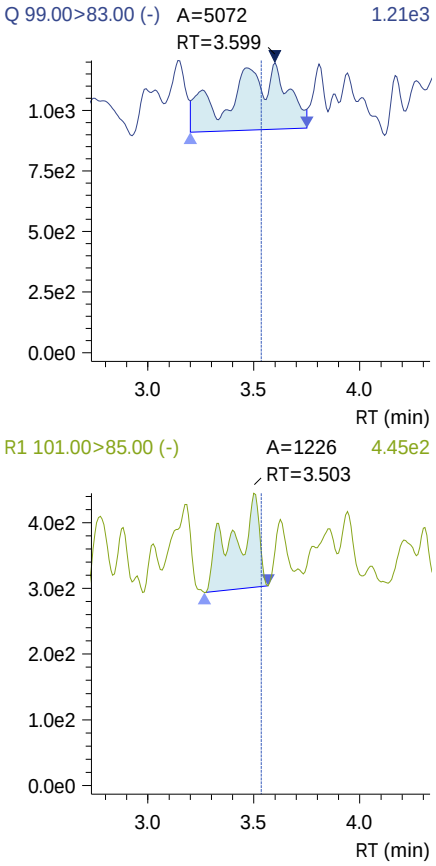
Insight Report

IB

Sample ID: IB
Date Acquired: 6/20/2024 2:44:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-063.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

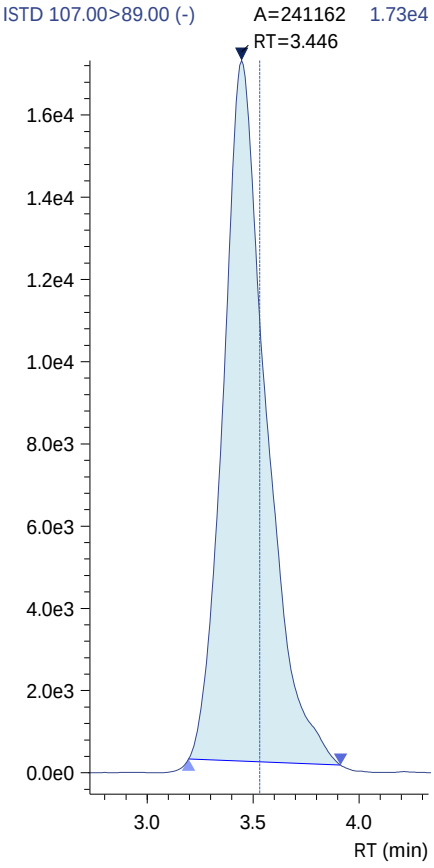
Perchlorate

Conc 0.1440
R#1 24.17 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

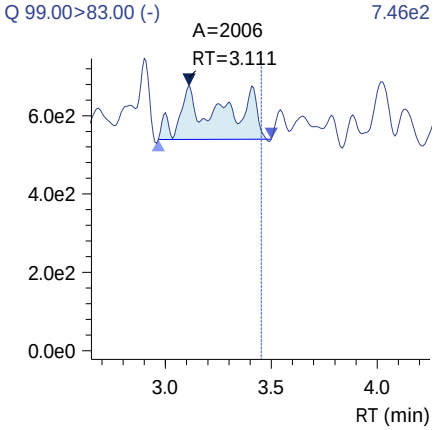
IB

Sample ID: IB
Date Acquired: 6/21/2024 1:41:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-020.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

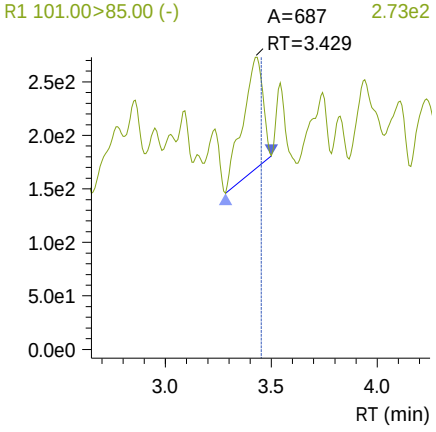
Perchlorate

Conc 0.0738
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.46e2



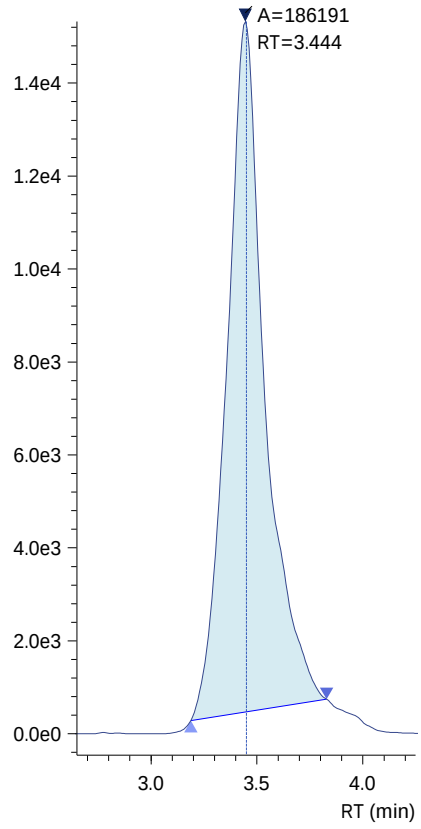
R1 101.00>85.00 (-) 2.73e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.53e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

Method File: I:\LCMS01\DATA\20240621\20240621.lcm
Project File: I:\LCMS01\DATA\20240621\20240621.damlp

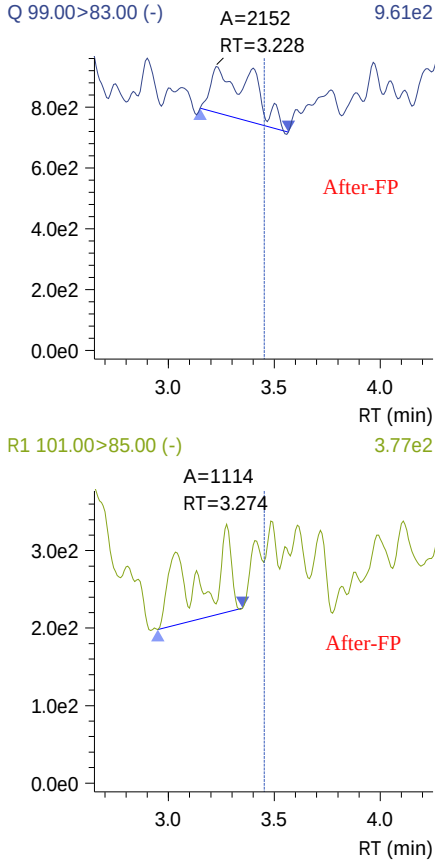
IB

Sample ID: IB
Date Acquired: 6/21/2024 9:07:00 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	173255	----	ng/mL	101.00 >85.00	51.76	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.454	173255	173255	1.0000	ng/mL	----	----	

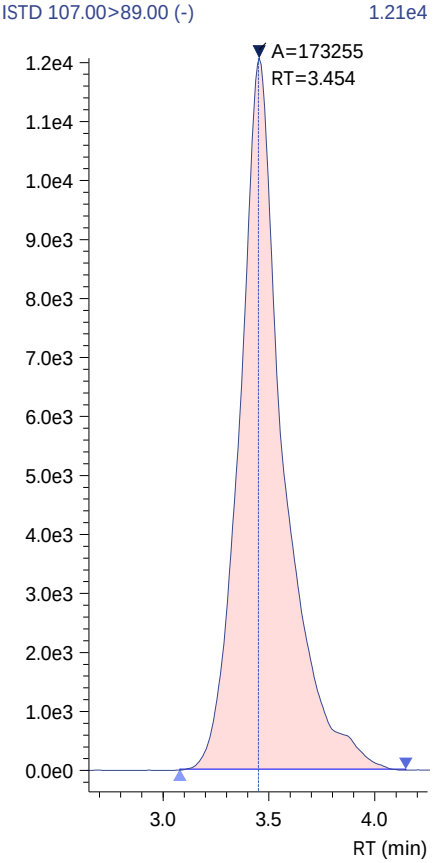
Perchlorate

Conc ----
R#1 51.76 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

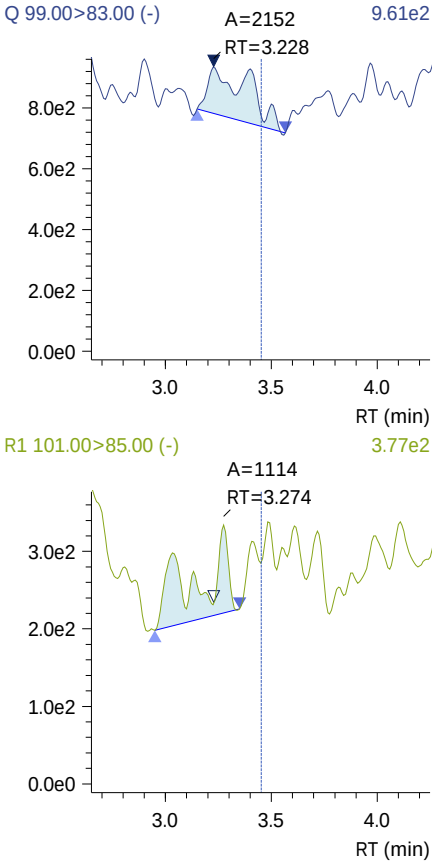
Method File: I:\LCMS01\DATA\20240621\20240621.lcm
Project File: I:\LCMS01\DATA\20240621\20240621.damlp

IB

Sample ID: IB
Date Acquired: 6/21/2024 9:07:00 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

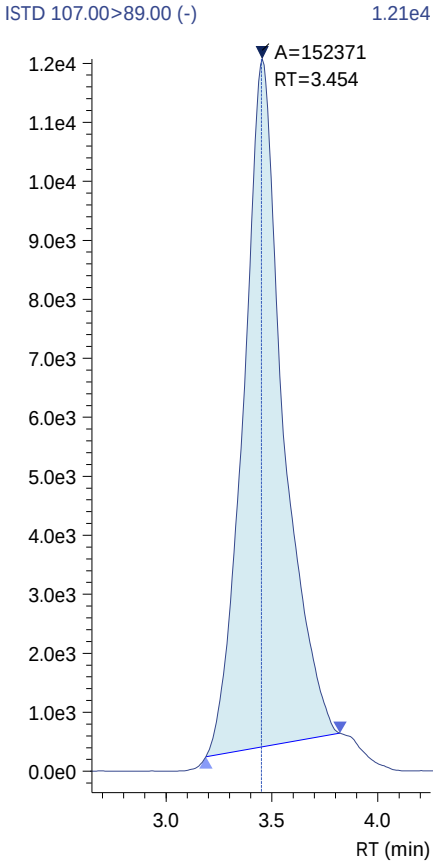
Perchlorate

Conc 0.0967
R#1 51.76 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:04 PM

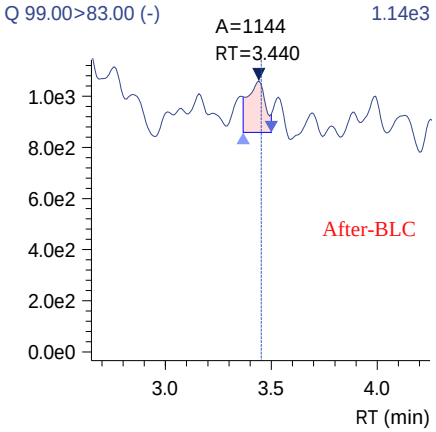
LODV

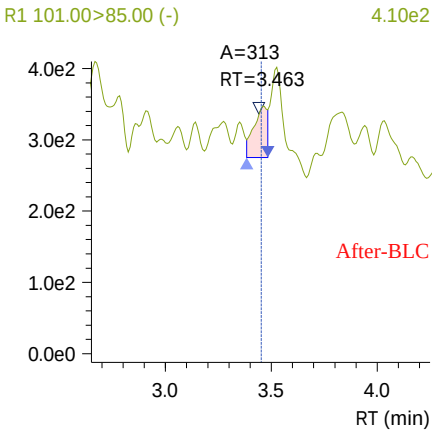
Sample ID: LODV
Date Acquired: 6/21/2024 9:12:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.440	1144	164052	0.0477	ng/mL	101.00 >85.00	27.42	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.457	164052	164052	1.0000	ng/mL	----	----	

Perchlorate

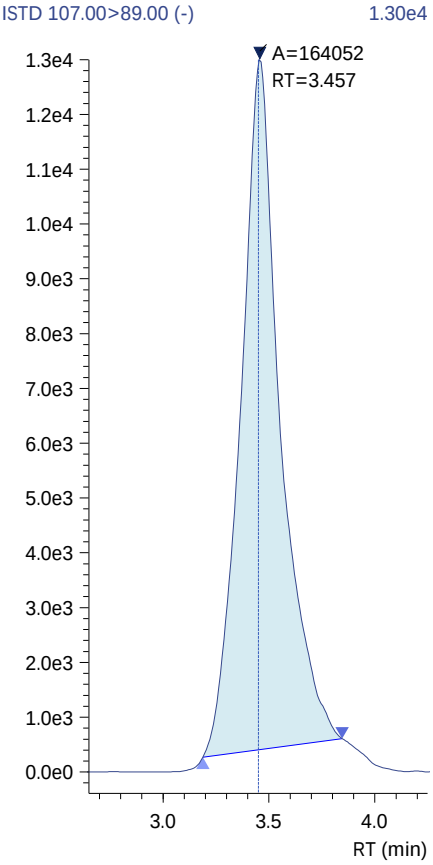
Conc 0.0477
R#1 27.42 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

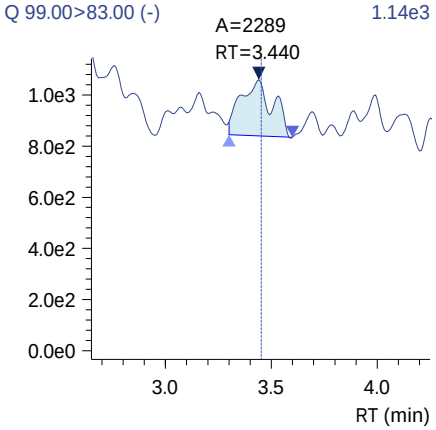
LODV

Sample ID: LODV
Date Acquired: 6/21/2024 9:12:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

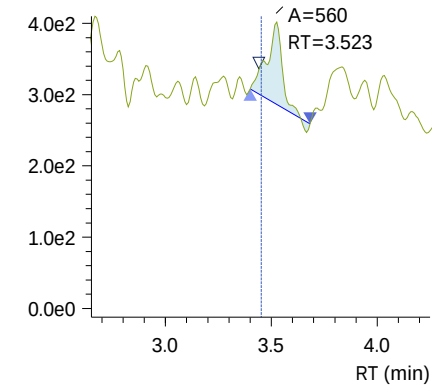
Perchlorate

Conc 0.0956
R#1 24.48 (35.24)

Q 99.00>83.00 (-) 1.14e3



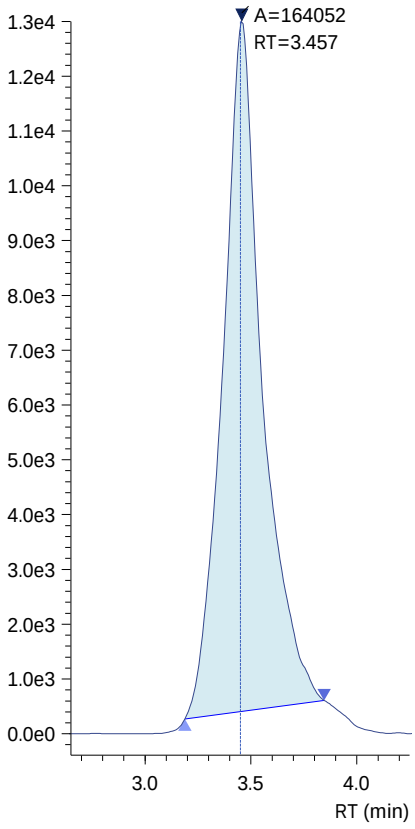
R1 101.00>85.00 (-) 4.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.30e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

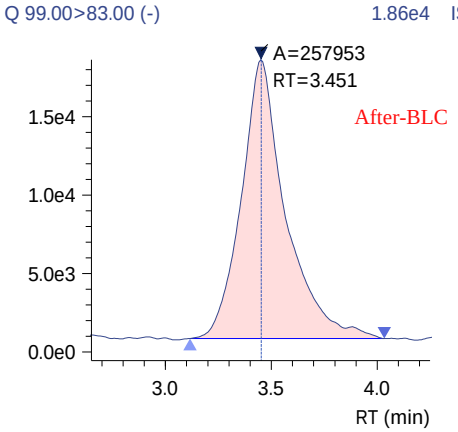
CCV

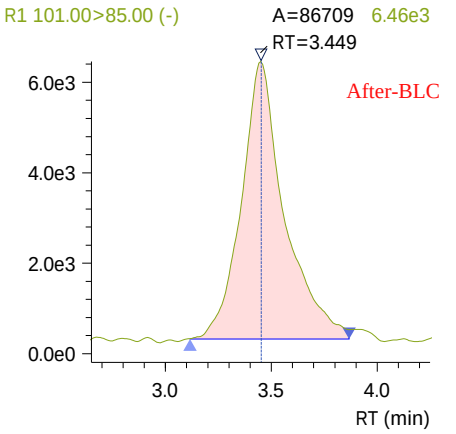
Sample ID: CCV
Date Acquired: 6/21/2024 9:23:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.451	257953	179641	9.8348	ng/mL	101.00 >85.00	33.61	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	179641	179641	1.0000	ng/mL	----	----	

Perchlorate

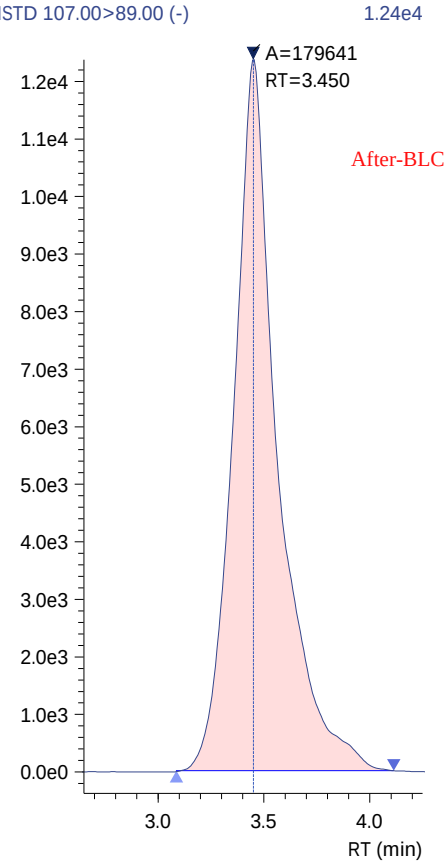
Conc 9.8348
R#1 33.61 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

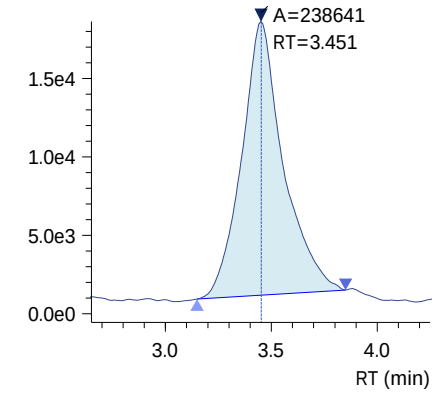
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 9:23:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

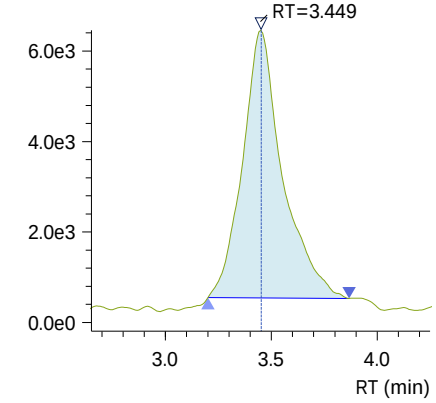
Perchlorate

Conc 10.3651
R#1 32.58 (35.24)

Q 99.00>83.00 (-) 1.86e4



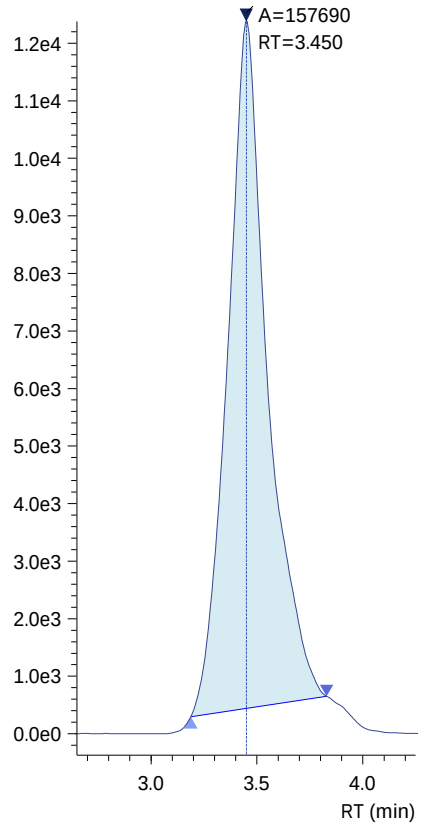
R1 101.00>85.00 (-) A=77739 6.46e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

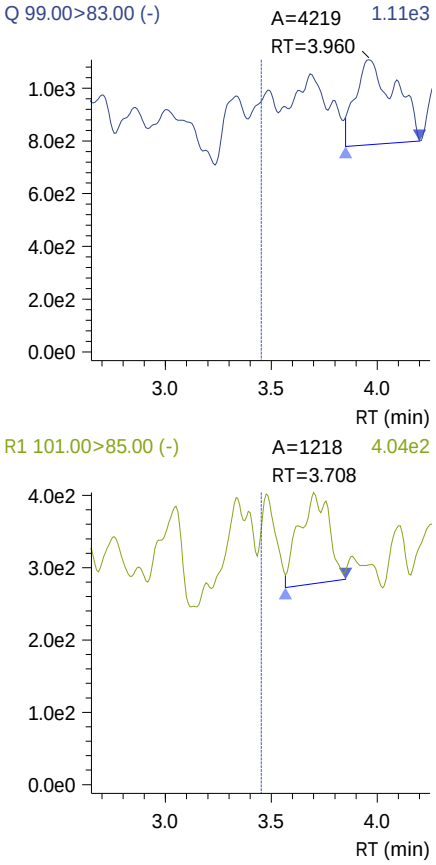
IB

Sample ID: IB
Date Acquired: 6/21/2024 9:29:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	179856	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	179856	179856	1.0000	ng/mL	----	----	

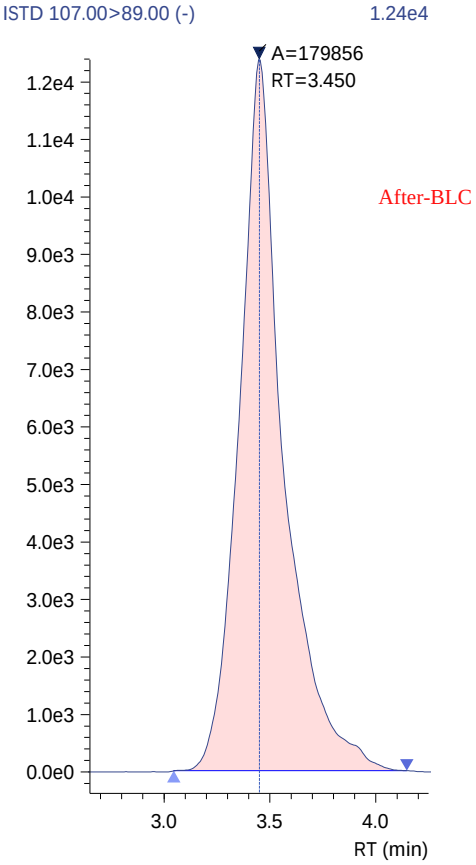
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

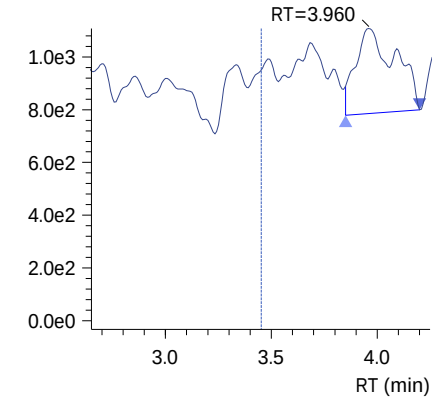
IB

Sample ID: IB
Date Acquired: 6/21/2024 9:29:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

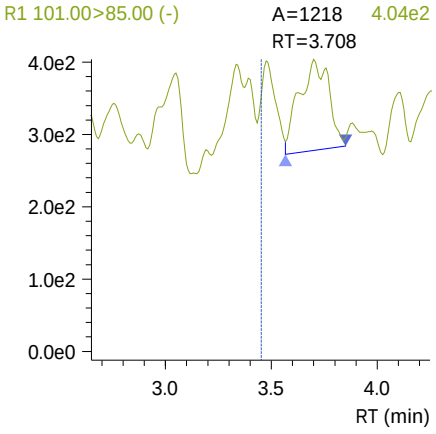
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=4219 1.11e3



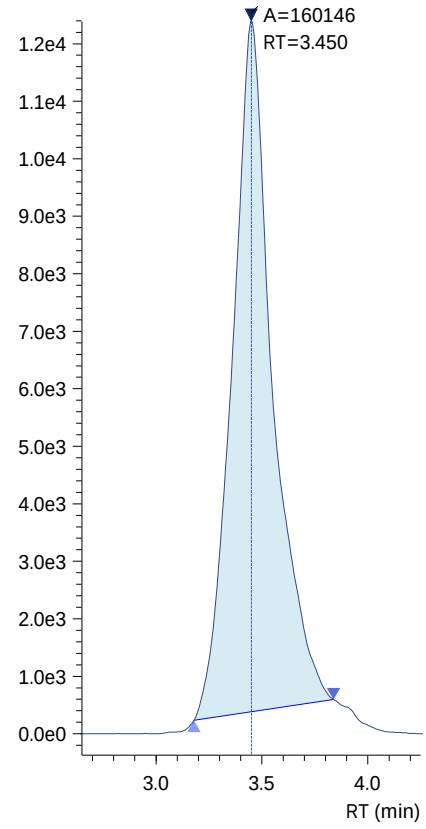
R1 101.00>85.00 (-) A=1218 4.04e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

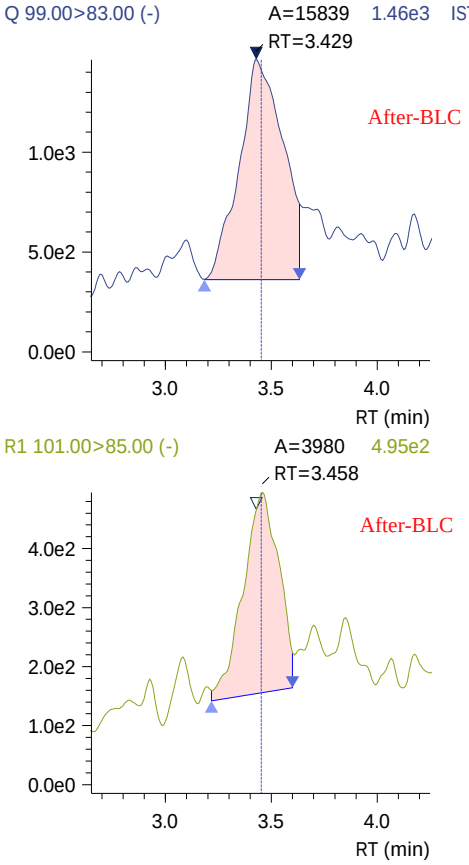
E2400687-007x10

Sample ID: E2400687-007
Date Acquired: 6/21/2024 12:53:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-012.lcd
Vial: 35 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.429	15839	254310	0.4266	ng/mL	101.00 >85.00	25.13	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	2543 10	254310	1.0000	ng/mL	----	----	

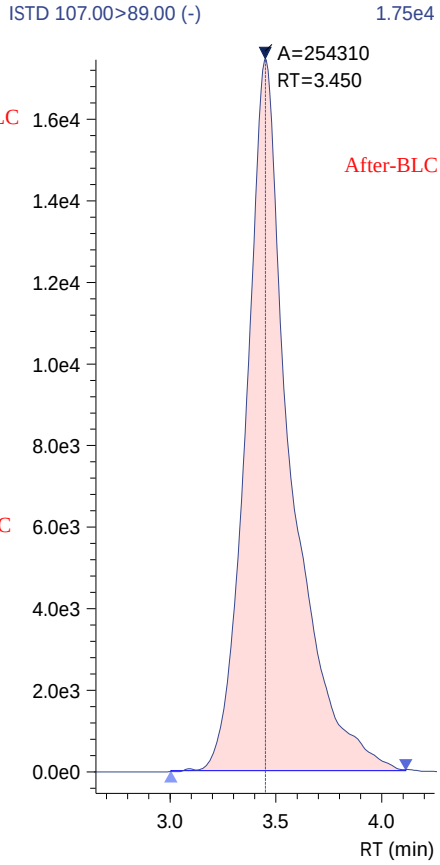
Perchlorate

Conc 0.4266
R#1 25.13 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

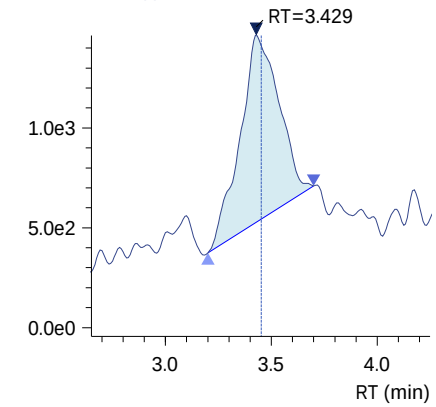
E2400687-007x10

Sample ID: E2400687-007
Date Acquired: 6/21/2024 12:53:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-012.lcd
Vial: 35 | Inj. Volume: 10.0000uL | Tray: 4

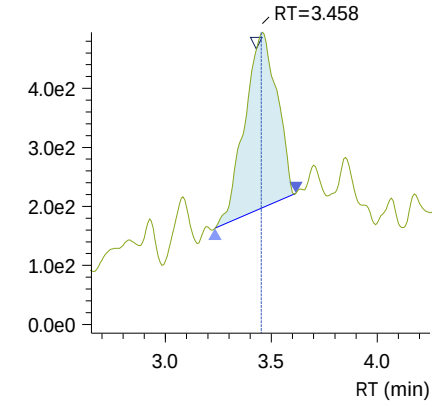
Perchlorate

Conc 0.3645
R#1 26.48 (35.24)

Q 99.00>83.00 (-) A=11830 1.46e3



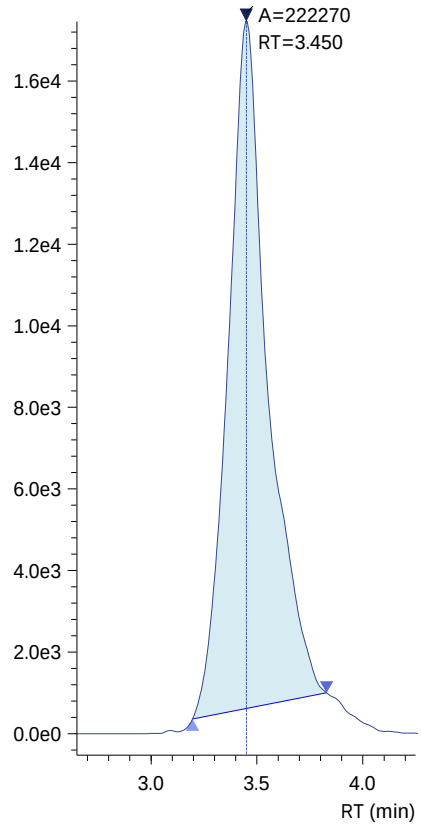
R1 101.00>85.00 (-) A=3132 4.95e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.75e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

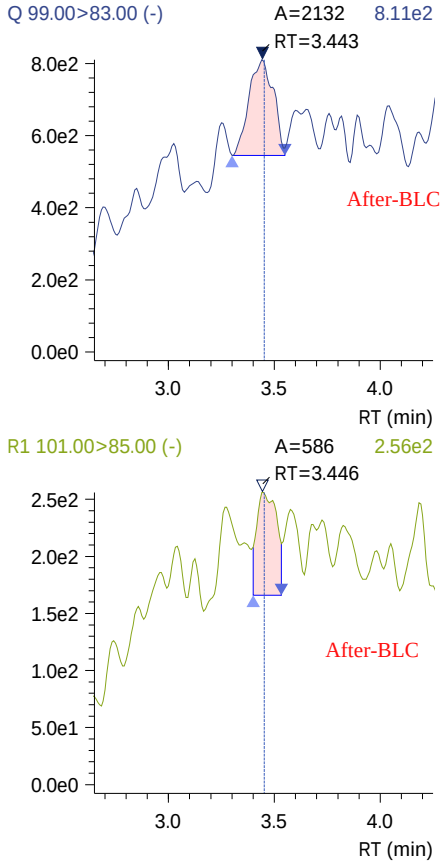
E2400687-008x10

Sample ID: E2400687-008
Date Acquired: 6/21/2024 12:58:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-013.lcd
Vial: 36 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.443	2132	244204	0.0598	ng/mL	101.00 >85.00	27.48	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.445	244204	244204	1.0000	ng/mL	----	----	

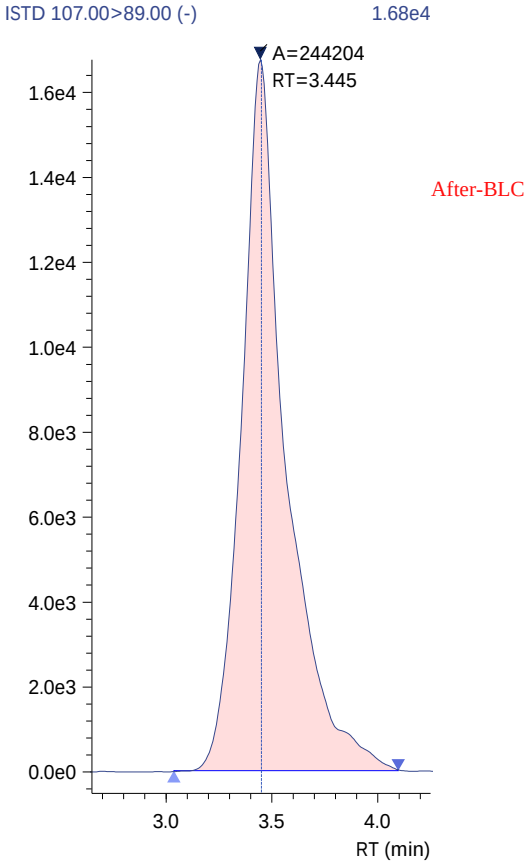
Perchlorate

Conc 0.0598
R#1 27.48 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

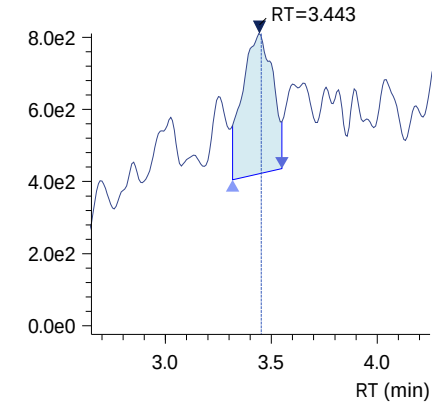
E2400687-008x10

Sample ID: E2400687-008
Date Acquired: 6/21/2024 12:58:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-013.lcd
Vial: 36 | Inj. Volume: 10.0000uL | Tray: 4

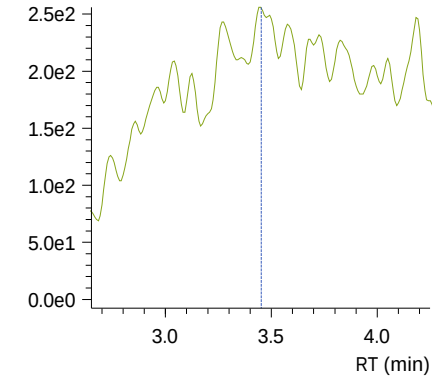
Perchlorate

Conc 0.1243
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=3875 8.11e2



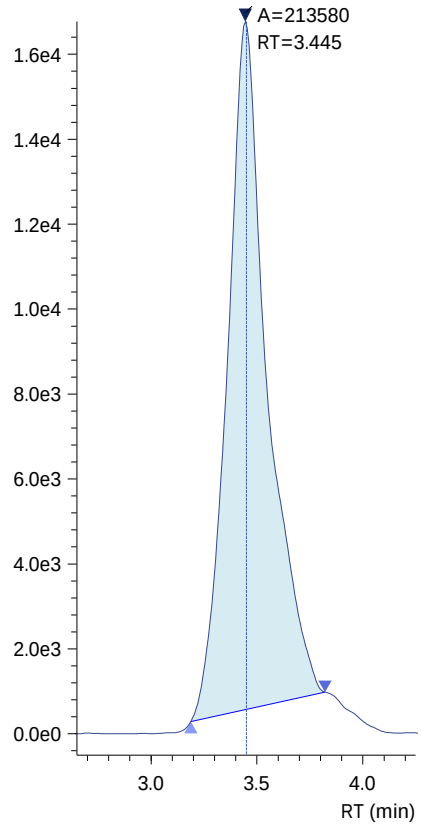
R1 101.00>85.00 (-) 2.56e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.68e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

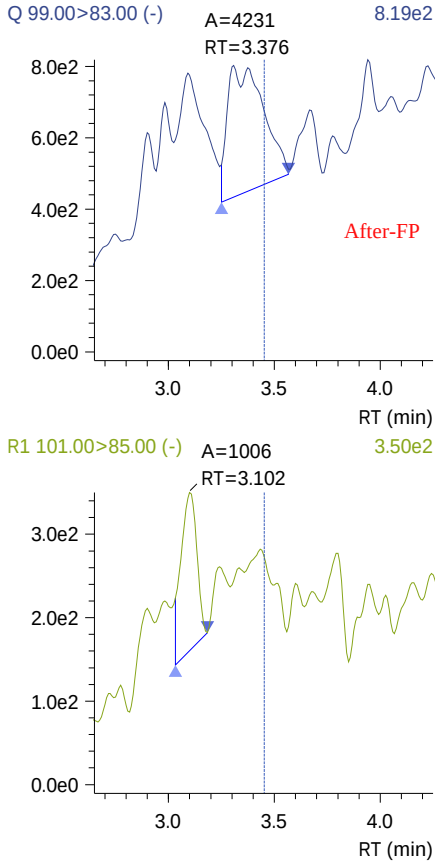
E2400687-009x10

Sample ID: E2400687-009
Date Acquired: 6/21/2024 1:04:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-014.lcd
Vial: 37 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	188595	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.422	188595	188595	1.0000	ng/mL	----	----	

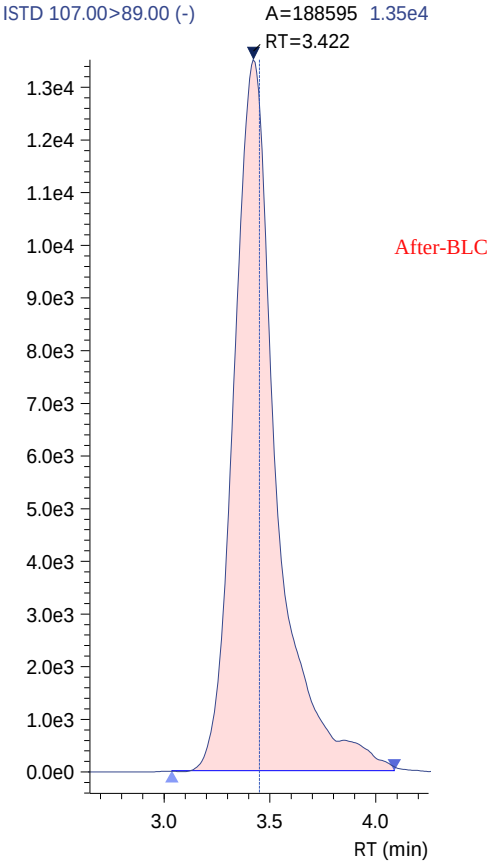
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

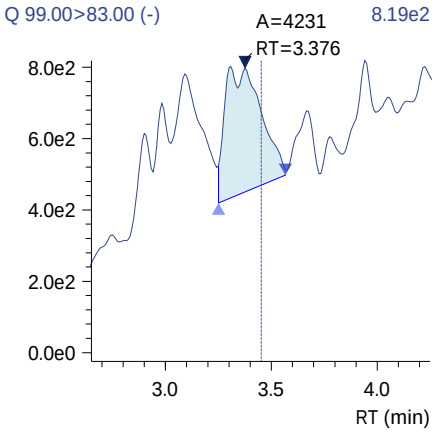
Printed at 6/25/2024 12:31:43 PM

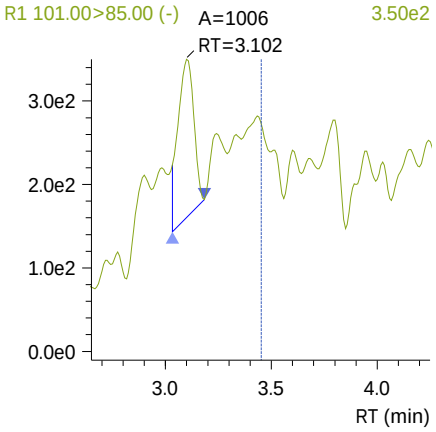
E2400687-009x10

Sample ID: E2400687-009
Date Acquired: 6/21/2024 1:04:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-014.lcd
Vial: 37 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

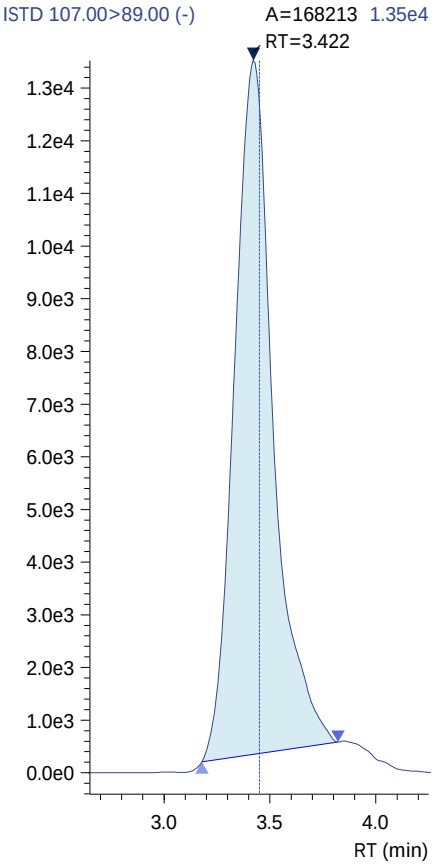
Conc 0.1723
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:04 PM

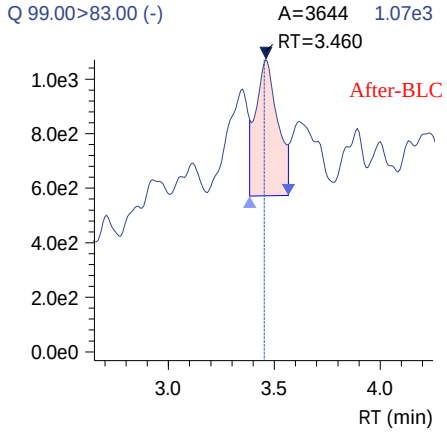
EQ2400332-05MSx10

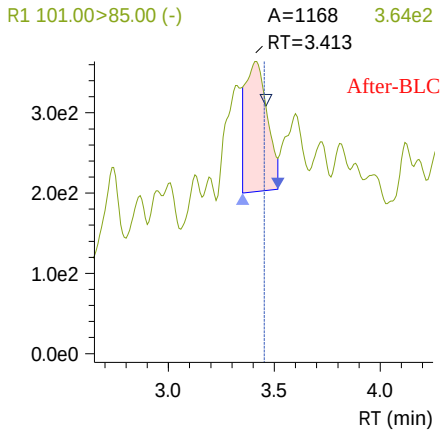
Sample ID: EQ2400332-05MS
Date Acquired: 6/21/2024 1:13:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-015.lcd
Vial: 38 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.460	3644	233823	0.1067	ng/mL	101.00 >85.00	32.06	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.448	2338 23	233823	1.0000	ng/mL	----	----	

Perchlorate

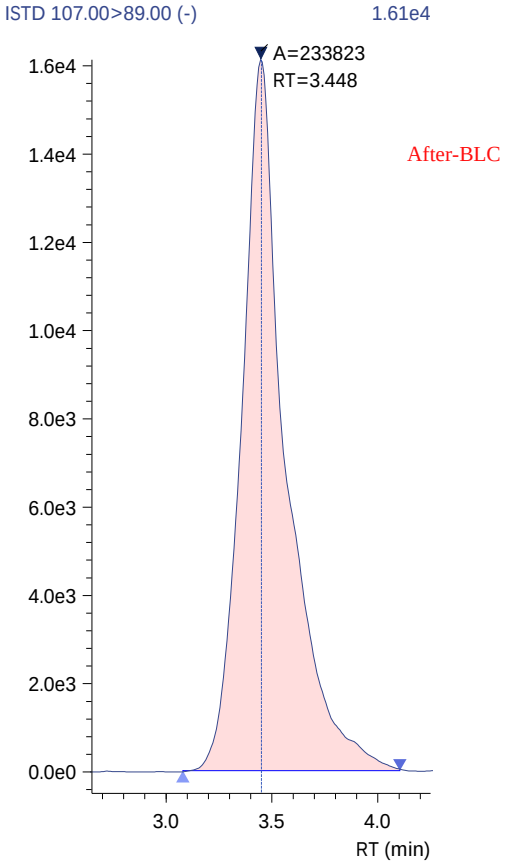
Conc 0.1067
R#1 32.06 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

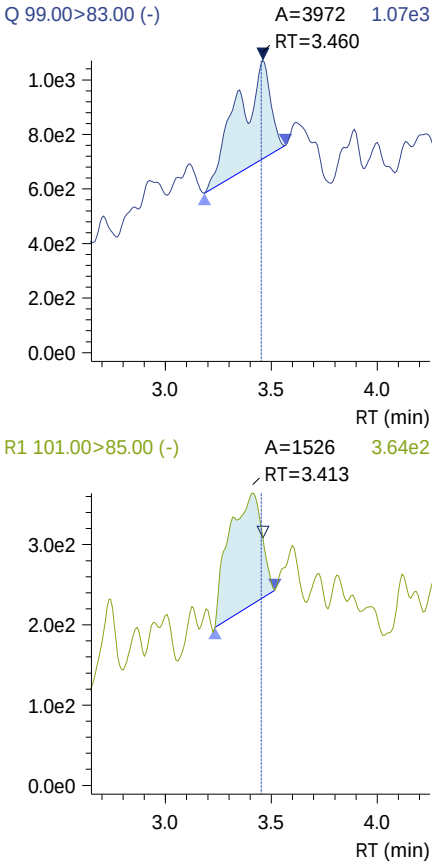
Printed at 6/25/2024 12:31:43 PM

EQ2400332-05MSx10

Sample ID: EQ2400332-05MS
Date Acquired: 6/21/2024 1:13:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-015.lcd
Vial: 38 | Inj. Volume: 10.0000uL | Tray: 4

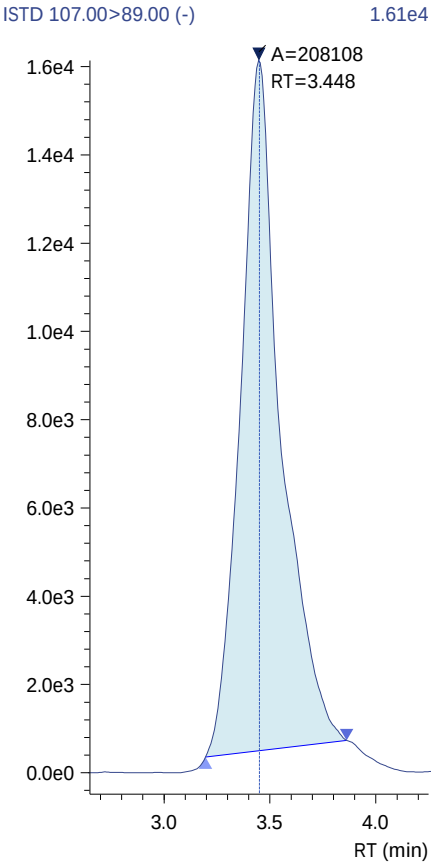
Perchlorate

Conc 0.1307
R#1 38.41 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:04 PM

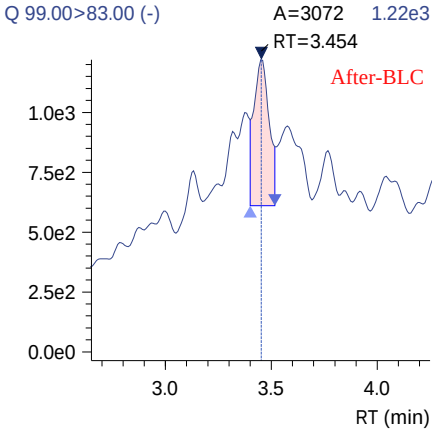
EQ2400332-06DMSx10

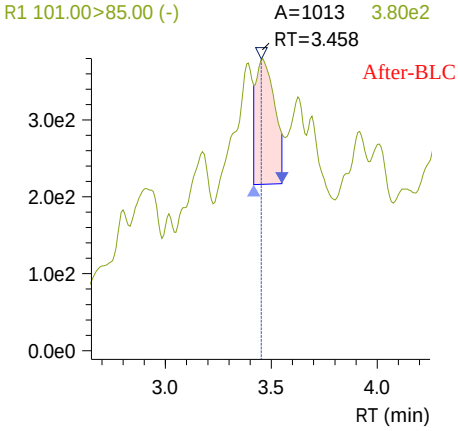
Sample ID: EQ2400332-06DMS
Date Acquired: 6/21/2024 1:19:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-016.lcd
Vial: 39 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.454	3072	208510	0.1009	ng/mL	101.00 >85.00	32.98	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.445	2085 10	208510	1.0000	ng/mL	----	----	

Perchlorate

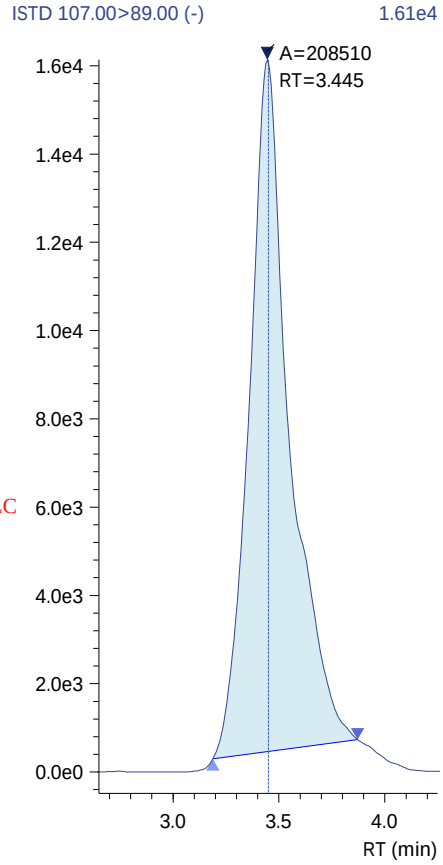
Conc 0.1009
R#1 32.98 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

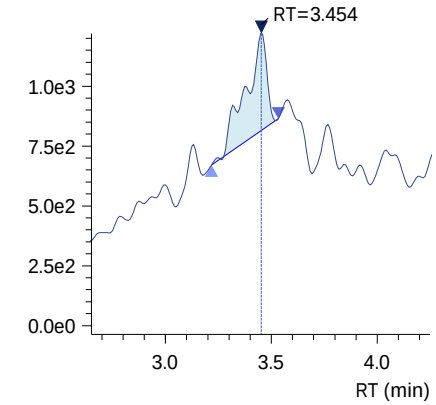
EQ2400332-06DMSx10

Sample ID: EQ2400332-06DMS
Date Acquired: 6/21/2024 1:19:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-016.lcd
Vial: 39 | Inj. Volume: 10.0000uL | Tray: 4

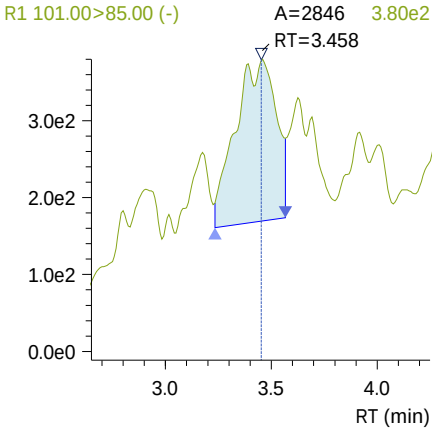
Perchlorate

Conc 0.0928
R#1 100.69 (35.24)

Q 99.00>83.00 (-) A=2827 1.22e3



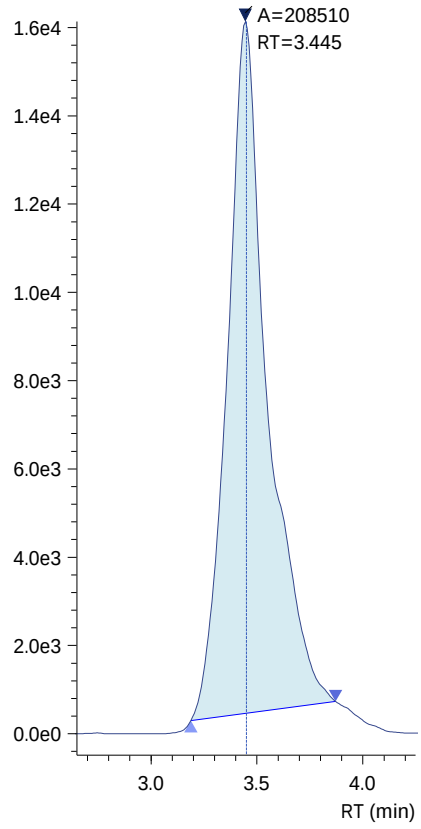
R1 101.00>85.00 (-) A=2846 3.80e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

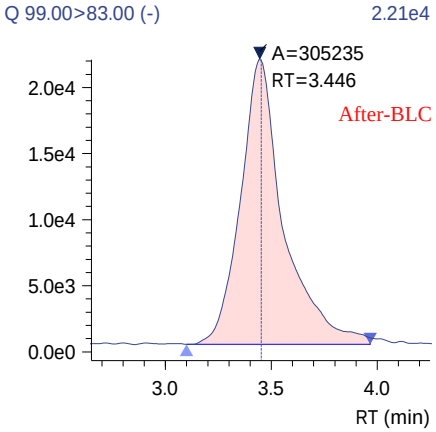
CCV

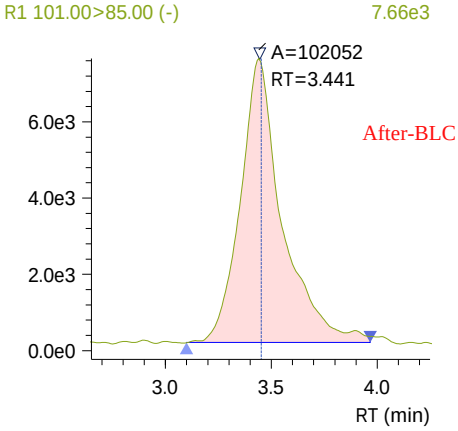
Sample ID: CCV
Date Acquired: 6/21/2024 1:36:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.446	3052 35	205946	10.1 511	ng/mL	101.00 >85.00	33.43	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.443	2059 46	205946	1.0000	ng/mL	----	----	

Perchlorate

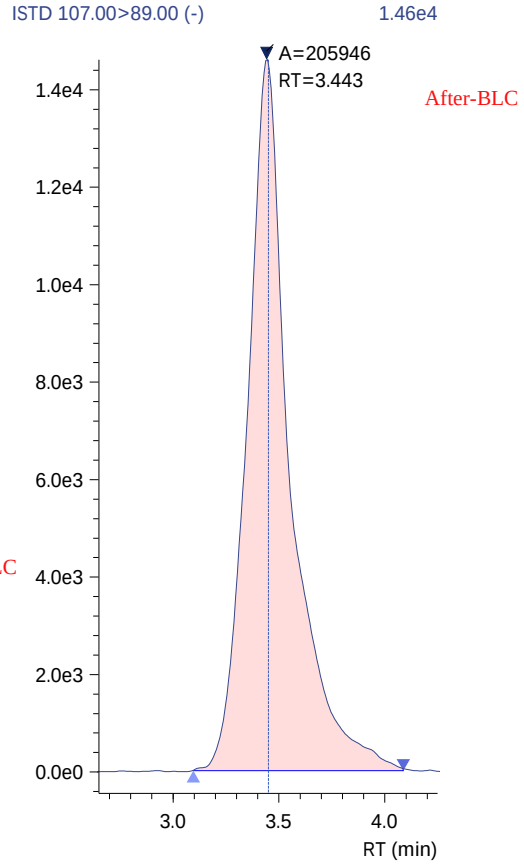
Conc 10.1511
R#1 33.43 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

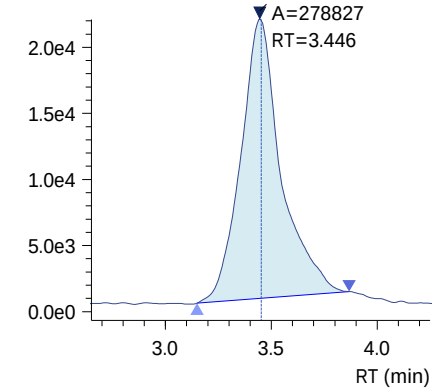
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 1:36:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

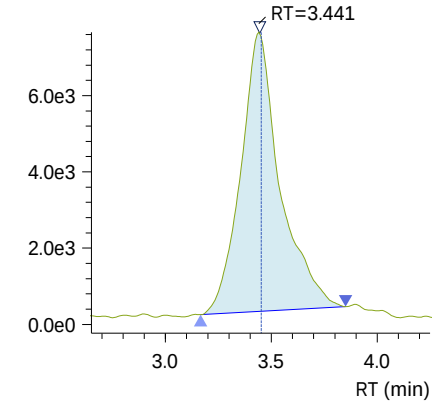
Perchlorate

Conc 10.4489
R#1 33.79 (35.24)

Q 99.00>83.00 (-) 2.21e4



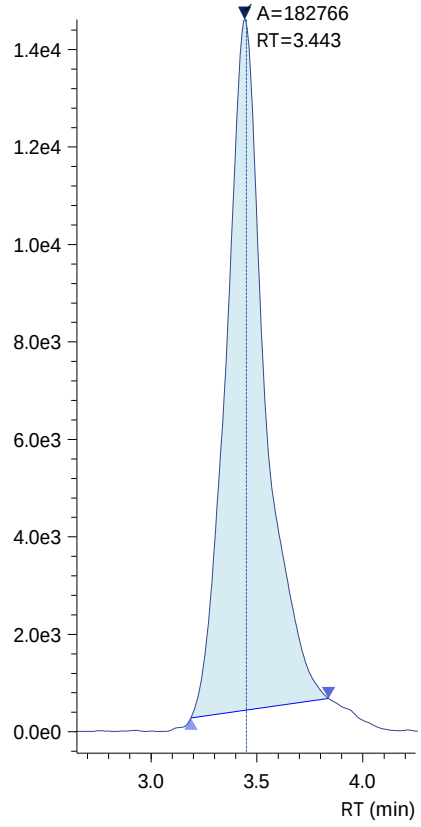
R1 101.00>85.00 (-) A=94215 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

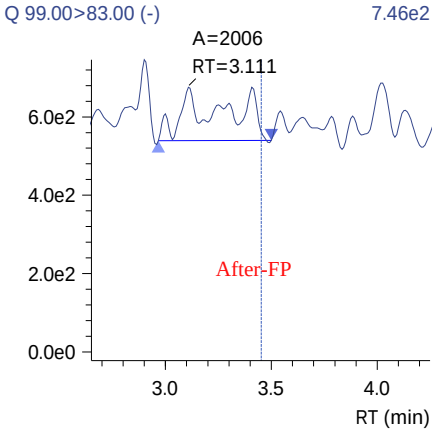
IB

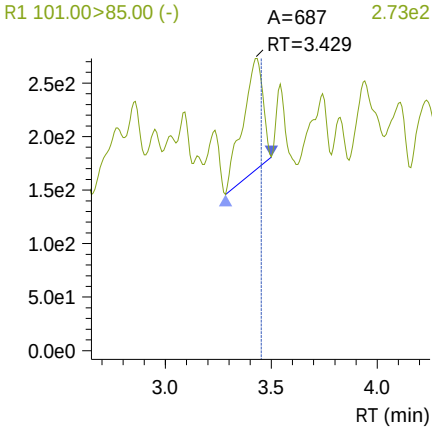
Sample ID: IB
Date Acquired: 6/21/2024 1:41:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-020.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	186191	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.444	186191	186191	1.0000	ng/mL	----	----	

Perchlorate

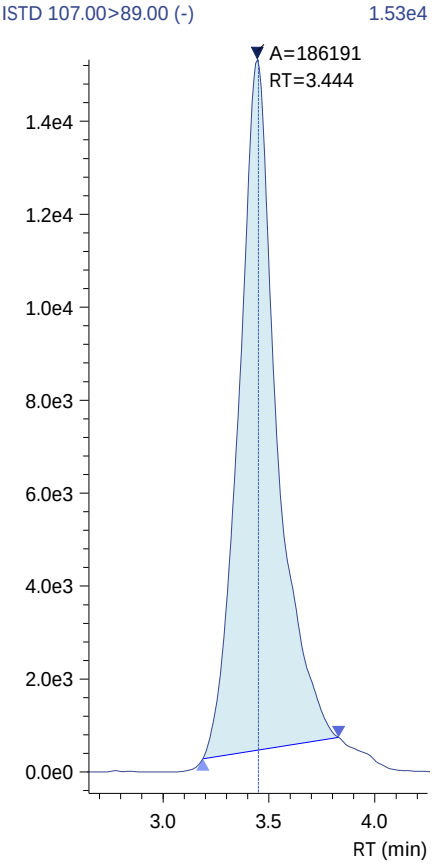
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



HS24060795 LHAAP 18 24 COVER PAGE REV01

ALS WO# HS24060795

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Table of Contents

HS24060795 LHAAP 18 24 COVER PAGE REV01
- CoverPage
- HS24060795 LHAAP 18 24 Final REV01
  - CoverLetter
  - Sample Summary
  - CaseNarrative
  - AWD1_061224
  - 18CPTMW06_06224
  - MW22_061224
  - MW22_06224_a
  - MW6_06224
  - 109_06224
  - MW21_06224
  - 18CPTMW22SW_06224
  - MW20_06224
  - Weight/Volume Log
  - Dates Report
  - QC
  - Acronyms
  - Certifications
  - SampleReceiptCheckList
  - COC

Table of Contents (continued)

HS24060795 E2400685 Perch Level II Report

HS24060795 ALS Middletown Sub Data Report 3366029_333305

HS24060795-MSSEMI-SW8270SIM

Form 2 - Surrogates

Form 3B - LCS/LCSD

Form 4 - MB Assoc

Form 5 - Tune

Form 6I - ICV

Form 6 - ICAL

Form 7 - CCV

Form 8 - ISTD

Form 12 - Prep Log

Run Log

Raw Data SV_6_470172 240621

Raw Data SV_6_470172 240629

Raw Data SV_6_472536 240418

HS24060795 - ME - HG_W_DODICP_W_DOD

Form 13 - HG04_470273 Run Log

Form 13 - ICPMS07_470364 Run Log

Form 13 - ICPMS07_470472 Run Log

Form 2 - HG04_470273 CCV

Form 2 - ICPMS07_470364 CCV

Form 2 - ICPMS07_470472 CCV

Form 3 - HG04_470273 CCB

Form 3 - ICPMS07_470364 CCB

Form 3 - ICPMS07_470472 CCB

Form 4 - ICPMS07_470364 ICSA

Form 4 - ICPMS07_470472 ICSA

Form 5A - HG04_470273 MS

Form 5A - ICPMS07_470364 MS

Form 5A - ICPMS07_470472 MS

Form 5B - ICPMS07_470364 PDS

Form 5B - ICPMS07_470472 PDS

Form 7 - HG04_470273 LCS

Form 7 - ICPMS07_470364 LCS

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WorkOrder: HS24060795

LHAAP 18 24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

19-Sep-2024

HS24060795 LHAAP 18 24 Final REV01

ALS WO# HS24060795

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August 30, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24060795**

Laboratory Results for: **LHAAP 18 24**

Dear Marcia Olive,

ALS Environmental received 10 sample(s) on Jun 13, 2024 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Work Order: HS24060795

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24060795-01	AWD1_061224	Water		12-Jun-2024 07:00	13-Jun-2024 09:12	☐
HS24060795-02	18CPTMW06_06224	Water		12-Jun-2024 07:45	13-Jun-2024 09:12	☐
HS24060795-03	MW22_061224	Water		12-Jun-2024 08:30	13-Jun-2024 09:12	☐
HS24060795-04	MW22_06224_a	Water		12-Jun-2024 08:30	13-Jun-2024 09:12	☐
HS24060795-05	MW6_06224	Water		12-Jun-2024 09:20	13-Jun-2024 09:12	☐
HS24060795-06	109_06224	Water		12-Jun-2024 10:15	13-Jun-2024 09:12	☐
HS24060795-07	MW21_06224	Water		12-Jun-2024 11:00	13-Jun-2024 09:12	☐
HS24060795-08	18CPTMW22SW_06224	Water		12-Jun-2024 11:45	13-Jun-2024 09:12	☐
HS24060795-09	MW20_06224	Water		12-Jun-2024 12:00	13-Jun-2024 09:12	☐
HS24060795-10	Trip Blank	Water		12-Jun-2024 00:00	13-Jun-2024 09:12	☐

Revision:1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP 18 24
Work Order: HS24060795

Work Order Comments

• This report was revised 08/30/24 to correct the limit of detection values due to laboratory error.

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS High Res Lab Houston, TX. Final report attached.

• The analysis for VOCs was subcontracted to ALS Environmental in Middletown PA, MI. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 213652

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470A

Batch ID: 214008

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 213798

Sample ID: HS24060694-01MS

• MS and MSD are for an unrelated sample

Sample ID: HS24060694-01PDS

• PDS is for an unrelated sample

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: AWD1_061224
Collection Date: 12-Jun-2024 07:00

ANALYTICAL REPORT
WorkOrder:HS24060795
Lab ID:HS24060795-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 17-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.67**		**0.10**	**0.20**	**0.30**	**ug/L**	10	29-Jun-2024 14:23
Surr: 2-Fluorobiphenyl	*116*		**0**	*40-140*		*%REC*	*10*	*29-Jun-2024 14:23*
Surr: 4-Terphenyl-d14	*103*		**0**	*40-140*		*%REC*	*10*	*29-Jun-2024 14:23*
Surr: Nitrobenzene-d5	*119*		**0**	*40-140*		*%REC*	*10*	*29-Jun-2024 14:23*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW06_06224
Collection Date: 12-Jun-2024 07:45

ANALYTICAL REPORT
WorkOrder:HS24060795
Lab ID:HS24060795-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 17-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	21-Jun-2024 17:16
Surr: 2-Fluorobiphenyl	*80.9*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 17:16*
Surr: 4-Terphenyl-d14	*58.2*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 17:16*
Surr: Nitrobenzene-d5	*82.7*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 17:16*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	05-Jul-2024 08:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW22_061224
Collection Date: 12-Jun-2024 08:30

ANALYTICAL REPORT
WorkOrder:HS24060795
Lab ID:HS24060795-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.0149**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 17:56
Antimony	**0.000666**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:56
Arsenic	**0.000820**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:56
Barium	**0.605**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:56
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:56
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:56
Calcium	**50.6**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 17:56
Chromium	**0.356**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:56
Cobalt	**0.00402**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 17:56
Copper	**0.0122**		**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	25-Jun-2024 17:56
Iron	**6.01**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:56
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 17:56
Magnesium	**20.4**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:56
Manganese	**0.0628**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:56
Nickel	**0.431**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:56
Potassium	**1.79**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:56
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 17:56
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 17:56
Sodium	**412**		**0.280**	**1.00**	**4.00**	**mg/L**	20	25-Jun-2024 19:25
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:56
Vanadium	**0.00204**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:56
Zinc	**0.00471**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:56
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:12
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	05-Jul-2024 08:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW22_06224_a
Collection Date: 12-Jun-2024 08:30

ANALYTICAL REPORT
WorkOrder:HS24060795
Lab ID:HS24060795-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.0144**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 17:59
Antimony	**0.000634**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:59
Arsenic	**0.000805**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:59
Barium	**0.586**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:59
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:59
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:59
Calcium	**49.9**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 17:59
Chromium	**0.386**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:59
Cobalt	**0.00402**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 17:59
Copper	**0.0140**		**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	25-Jun-2024 17:59
Iron	**6.64**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:59
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 17:59
Magnesium	**20.1**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:59
Manganese	**0.0604**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:59
Nickel	**0.430**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:59
Potassium	**1.79**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:59
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 17:59
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 17:59
Sodium	**362**		**0.280**	**1.00**	**4.00**	**mg/L**	20	25-Jun-2024 19:27
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:59
Vanadium	**0.00224**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:59
Zinc	**0.00470**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:59
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:13
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	05-Jul-2024 08:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW6_06224
Collection Date: 12-Jun-2024 09:20

ANALYTICAL REPORT
WorkOrder:HS24060795
Lab ID:HS24060795-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.00927**	J	**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 18:01
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 18:01
Arsenic	**0.000908**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:01
Barium	**0.468**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:01
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:01
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:01
Calcium	**19.1**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 18:01
Chromium	**0.0612**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:01
Cobalt	**0.00105**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 18:01
Copper	**0.00354**	J	**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	25-Jun-2024 18:01
Iron	**1.28**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:01
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 18:01
Magnesium	**15.7**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:01
Manganese	**0.0377**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:01
Nickel	**0.0867**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:01
Potassium	**1.73**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:01
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 18:01
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 18:01
Sodium	**167**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:01
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:01
Vanadium	**0.00136**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:01
Zinc	**0.0108**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:01
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:15
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	05-Jul-2024 08:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 109_06224
Collection Date: 12-Jun-2024 10:15

ANALYTICAL REPORT
WorkOrder:HS24060795
Lab ID:HS24060795-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 17-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.045**		**0.010**	**0.020**	**0.030**	**ug/L**	1	21-Jun-2024 17:33
Surr: 2-Fluorobiphenyl	*76.7*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 17:33*
Surr: 4-Terphenyl-d14	*73.5*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 17:33*
Surr: Nitrobenzene-d5	*70.5*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 17:33*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	05-Jul-2024 08:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW21_06224
Collection Date: 12-Jun-2024 11:00

ANALYTICAL REPORT
WorkOrder:HS24060795
Lab ID:HS24060795-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 17-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.23**		**0.010**	**0.020**	**0.030**	**ug/L**	1	21-Jun-2024 17:51
Surr: 2-Fluorobiphenyl	*108*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 17:51*
Surr: 4-Terphenyl-d14	*85.4*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 17:51*
Surr: Nitrobenzene-d5	*96.6*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 17:51*
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.0127**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 18:04
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 18:04
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 18:04
Barium	**3.39**		**0.0380**	**0.0500**	**0.100**	**mg/L**	20	25-Jun-2024 19:30
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:04
Cadmium	**0.000362**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	25-Jun-2024 18:04
Calcium	**95.1**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 18:04
Chromium	**0.178**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:04
Cobalt	**0.0304**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 18:04
Copper	**0.0169**		**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	25-Jun-2024 18:04
Iron	**5.28**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:04
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 18:04
Magnesium	**71.2**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:04
Manganese	**0.870**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:04
Nickel	**0.665**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:04
Potassium	**1.54**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:04
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 18:04
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 18:04
Sodium	**373**		**0.280**	**1.00**	**4.00**	**mg/L**	20	25-Jun-2024 19:30
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:04
Vanadium	**0.00108**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:04
Zinc	**0.0157**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:04
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:17
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	05-Jul-2024 08:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW22SW_06224
Collection Date: 12-Jun-2024 11:45

ANALYTICAL REPORT
WorkOrder:HS24060795
Lab ID:HS24060795-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 17-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.049**		**0.010**	**0.020**	**0.030**	**ug/L**	1	21-Jun-2024 18:08
Surr: 2-Fluorobiphenyl	*117*		**0**	*40-140*		*%REC*	*1*	*21-Jun-2024 18:08*
Surr: 4-Terphenyl-d14	*57.0*		**0**	*40-140*		*%REC*	*1*	*21-Jun-2024 18:08*
Surr: Nitrobenzene-d5	*102*		**0**	*40-140*		*%REC*	*1*	*21-Jun-2024 18:08*
METALS BY ICPMS BY SW6020A	**Method:SW6020A**					Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.131**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 18:06
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 18:06
Arsenic	**0.00111**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:06
Barium	**0.252**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:06
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:06
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:06
Calcium	**54.8**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 18:06
Chromium	**0.0668**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:06
Cobalt	**0.000118**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 18:06
Copper	0.00200	U	0.00100	0.00200	0.00500	mg/L	1	25-Jun-2024 18:06
Iron	**0.0501**	J	**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:06
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 18:06
Magnesium	**0.525**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:06
Manganese	**0.0129**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:06
Nickel	**0.00147**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:06
Potassium	**322**		**0.360**	**1.00**	**4.00**	**mg/L**	20	25-Jun-2024 19:32
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 18:06
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 18:06
Sodium	**335**		**0.280**	**1.00**	**4.00**	**mg/L**	20	25-Jun-2024 19:32
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:06
Vanadium	**0.00154**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:06
Zinc	**0.00864**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:06
MERCURY BY SW7470A	**Method:SW7470A**					Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:19
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	05-Jul-2024 08:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW20_06224
Collection Date: 12-Jun-2024 12:00

ANALYTICAL REPORT
WorkOrder:HS24060795
Lab ID:HS24060795-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.0366**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 18:09
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 18:09
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 18:09
Barium	**0.443**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:09
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:09
Cadmium	**0.000286**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	25-Jun-2024 18:09
Calcium	**56.6**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 18:09
Chromium	**0.00326**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:09
Cobalt	**0.00650**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 18:09
Copper	**0.00222**	J	**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	25-Jun-2024 18:09
Iron	**0.272**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:09
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 18:09
Magnesium	**11.3**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:09
Manganese	**0.139**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:09
Nickel	**0.293**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:09
Potassium	**0.511**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:09
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 18:09
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 18:09
Sodium	**30.3**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:09
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:09
Vanadium	**0.000615**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:09
Zinc	**0.00951**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:09
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:20
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	05-Jul-2024 08:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Batch ID: 213652 **Start Date:** 17 Jun 2024 14:08 **End Date:** 17 Jun 2024 14:08
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060795-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060795-02	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060795-06	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060795-07	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060795-08	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 213798 **Start Date:** 19 Jun 2024 15:00 **End Date:** 19 Jun 2024 15:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060795-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060795-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060795-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060795-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060795-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060795-09		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 214008 **Start Date:** 24 Jun 2024 09:00 **End Date:** 24 Jun 2024 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060795-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060795-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060795-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060795-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060795-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060795-09		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213652 (1)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS24060795-01	AWD1_061224	12 Jun 2024 07:00		17 Jun 2024 14:08	29 Jun 2024 14:23	10
HS24060795-02	18CPTMW06_06224	12 Jun 2024 07:45		17 Jun 2024 14:08	21 Jun 2024 17:16	1
HS24060795-06	109_06224	12 Jun 2024 10:15		17 Jun 2024 14:08	21 Jun 2024 17:33	1
HS24060795-07	MW21_06224	12 Jun 2024 11:00		17 Jun 2024 14:08	21 Jun 2024 17:51	1
HS24060795-08	18CPTMW22SW_06224	12 Jun 2024 11:45		17 Jun 2024 14:08	21 Jun 2024 18:08	1
Batch ID: 213798 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS24060795-03	MW22_061224	12 Jun 2024 08:30		19 Jun 2024 15:00	25 Jun 2024 19:25	20
HS24060795-03	MW22_061224	12 Jun 2024 08:30		19 Jun 2024 15:00	25 Jun 2024 17:56	1
HS24060795-04	MW22_06224_a	12 Jun 2024 08:30		19 Jun 2024 15:00	25 Jun 2024 19:27	20
HS24060795-04	MW22_06224_a	12 Jun 2024 08:30		19 Jun 2024 15:00	25 Jun 2024 17:59	1
HS24060795-05	MW6_06224	12 Jun 2024 09:20		19 Jun 2024 15:00	25 Jun 2024 18:01	1
HS24060795-07	MW21_06224	12 Jun 2024 11:00		19 Jun 2024 15:00	25 Jun 2024 19:30	20
HS24060795-07	MW21_06224	12 Jun 2024 11:00		19 Jun 2024 15:00	25 Jun 2024 18:04	1
HS24060795-08	18CPTMW22SW_06224	12 Jun 2024 11:45		19 Jun 2024 15:00	25 Jun 2024 19:32	20
HS24060795-08	18CPTMW22SW_06224	12 Jun 2024 11:45		19 Jun 2024 15:00	25 Jun 2024 18:06	1
HS24060795-09	MW20_06224	12 Jun 2024 12:00		19 Jun 2024 15:00	25 Jun 2024 18:09	1
Batch ID: 214008 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS24060795-03	MW22_061224	12 Jun 2024 08:30		24 Jun 2024 09:00	24 Jun 2024 15:12	1
HS24060795-04	MW22_06224_a	12 Jun 2024 08:30		24 Jun 2024 09:00	24 Jun 2024 15:13	1
HS24060795-05	MW6_06224	12 Jun 2024 09:20		24 Jun 2024 09:00	24 Jun 2024 15:15	1
HS24060795-07	MW21_06224	12 Jun 2024 11:00		24 Jun 2024 09:00	24 Jun 2024 15:17	1
HS24060795-08	18CPTMW22SW_06224	12 Jun 2024 11:45		24 Jun 2024 09:00	24 Jun 2024 15:19	1
HS24060795-09	MW20_06224	12 Jun 2024 12:00		24 Jun 2024 09:00	24 Jun 2024 15:20	1
Batch ID: R470524 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24060795-02	18CPTMW06_06224	12 Jun 2024 07:45			26 Jun 2024 15:58	1
HS24060795-03	MW22_061224	12 Jun 2024 08:30			26 Jun 2024 15:58	1
HS24060795-04	MW22_06224_a	12 Jun 2024 08:30			26 Jun 2024 15:58	1
HS24060795-05	MW6_06224	12 Jun 2024 09:20			26 Jun 2024 15:58	1
HS24060795-06	109_06224	12 Jun 2024 10:15			26 Jun 2024 15:58	1
HS24060795-07	MW21_06224	12 Jun 2024 11:00			26 Jun 2024 15:58	1
HS24060795-08	18CPTMW22SW_06224	12 Jun 2024 11:45			26 Jun 2024 15:58	1
HS24060795-09	MW20_06224	12 Jun 2024 12:00			26 Jun 2024 15:58	1

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R471270 (0)	**Test Name :** SUBCONTRACT ANALYSIS -VOC ANALYSIS				**Matrix:** Water	
HS24060795-02	18CPTMW06_06224	12 Jun 2024 07:45			05 Jul 2024 08:49	1
HS24060795-03	MW22_061224	12 Jun 2024 08:30			05 Jul 2024 08:49	1
HS24060795-04	MW22_06224_a	12 Jun 2024 08:30			05 Jul 2024 08:49	1
HS24060795-05	MW6_06224	12 Jun 2024 09:20			05 Jul 2024 08:49	1
HS24060795-06	109_06224	12 Jun 2024 10:15			05 Jul 2024 08:49	1
HS24060795-07	MW21_06224	12 Jun 2024 11:00			05 Jul 2024 08:49	1
HS24060795-08	18CPTMW22SW_06224	12 Jun 2024 11:45			05 Jul 2024 08:49	1
HS24060795-09	MW20_06224	12 Jun 2024 12:00			05 Jul 2024 08:49	1

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-213798** Units: **mg/L** Analysis Date: **25-Jun-2024 16:47**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098138** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00500	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	0.0500	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Copper	0.00200	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.0500	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	0.0500	0.200								U
Selenium	0.00125	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.0500	0.200								U
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-213798** Units: **mg/L** Analysis Date: **25-Jun-2024 16:49**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098139** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1052	0.0100	0.1	0	105	84 - 117				
Antimony	0.04871	0.00500	0.05	0	97.4	85 - 117				
Arsenic	0.04717	0.00500	0.05	0	94.3	84 - 116				
Barium	0.04674	0.00500	0.05	0	93.5	86 - 114				
Beryllium	0.04651	0.00200	0.05	0	93.0	83 - 121				
Cadmium	0.04653	0.00200	0.05	0	93.1	87 - 115				
Calcium	4.767	0.500	5	0	95.3	87 - 118				
Chromium	0.04717	0.00500	0.05	0	94.3	85 - 116				
Cobalt	0.04762	0.00500	0.05	0	95.2	86 - 115				
Copper	0.04783	0.00500	0.05	0	95.7	85 - 118				
Iron	4.812	0.200	5	0	96.2	87 - 118				
Lead	0.04643	0.00500	0.05	0	92.9	88 - 115				
Magnesium	4.807	0.200	5	0	96.1	83 - 118				
Manganese	0.0491	0.00500	0.05	0	98.2	87 - 115				
Nickel	0.04837	0.00500	0.05	0	96.7	85 - 117				
Potassium	4.747	0.200	5	0	94.9	87 - 115				
Selenium	0.04719	0.00500	0.05	0	94.4	80 - 120				
Silver	0.04793	0.00500	0.05	0	95.9	85 - 116				
Sodium	4.68	0.200	5	0	93.6	85 - 117				
Vanadium	0.04634	0.00500	0.05	0	92.7	86 - 115				
Zinc	0.05509	0.00500	0.05	0	110	83 - 119				

LCS Sample ID: **LCS-213798** Units: **mg/L** Analysis Date: **25-Jun-2024 17:33**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098251** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04452	0.00200	0.05	0	89.0	82 - 116				

MS Sample ID: **HS24060694-01MS** Units: **mg/L** Analysis Date: **26-Jun-2024 12:18**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099863** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1173	0.0100	0.1	0.002952	114	84 - 117				
Zinc	0.1187	0.00500	0.1	0.004939	114	83 - 119				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS24060694-01MS** Units: **mg/L** Analysis Date: **25-Jun-2024 16:56**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098177** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04964	0.00500	0.05	0.000292	98.7	85 - 117				
Arsenic	0.04935	0.00500	0.05	0.000343	98.0	84 - 116				
Barium	0.2443	0.00500	0.05	0.1994	89.7	86 - 114				
Beryllium	0.04889	0.00200	0.05	0.000021	97.7	83 - 121				
Cadmium	0.04823	0.00200	0.05	0.000148	96.2	87 - 115				
Calcium	20.76	0.500	5	16.2	91.3	87 - 118				
Chromium	0.04865	0.00500	0.05	0.00175	93.8	85 - 116				
Cobalt	0.04827	0.00500	0.05	0.000901	94.7	86 - 115				
Copper	0.04862	0.00500	0.05	0.00114	95.0	85 - 118				
Iron	5.025	0.200	5	0.2217	96.1	87 - 118				
Lead	0.04803	0.00500	0.05	0.000086	95.9	88 - 115				
Magnesium	13.19	0.200	5	8.499	93.8	83 - 118				
Nickel	0.05024	0.00500	0.05	0.004569	91.3	85 - 117				
Potassium	5.948	0.200	5	1.123	96.5	87 - 115				
Selenium	0.04935	0.00500	0.05	0.00032	98.1	80 - 120				
Silver	0.04755	0.00500	0.05	0.000045	95.0	85 - 116				
Thallium	0.04175	0.00200	0.05	0.000012	83.5	82 - 116				
Vanadium	0.04894	0.00500	0.05	0.001125	95.6	86 - 115				

MS Sample ID: **HS24060694-01MS** Units: **mg/L** Analysis Date: **25-Jun-2024 18:43**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098368** PrepDate: **19-Jun-2024** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.2392	0.0100	0.05	0.2035	71.5	87 - 115				SO
Sodium	179.5	0.400	5	180.2	-14.1	85 - 117				SO

MSD Sample ID: **HS24060694-01MSD** Units: **mg/L** Analysis Date: **26-Jun-2024 12:20**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099864** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1143	0.0100	0.1	0.002952	111	84 - 117	0.1173	2.55	20	
Zinc	0.1175	0.00500	0.1	0.004939	113	83 - 119	0.1187	1.03	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS24060694-01MSD** Units: **mg/L** Analysis Date: **25-Jun-2024 16:59**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098178** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04977	0.00500	0.05	0.000292	98.9	85 - 117	0.04964	0.243	20	
Arsenic	0.04962	0.00500	0.05	0.000343	98.6	84 - 116	0.04935	0.538	20	
Barium	0.2438	0.00500	0.05	0.1994	88.6	86 - 114	0.2443	0.211	20	
Beryllium	0.04908	0.00200	0.05	0.000021	98.1	83 - 121	0.04889	0.378	20	
Cadmium	0.04843	0.00200	0.05	0.000148	96.6	87 - 115	0.04823	0.422	20	
Calcium	20.95	0.500	5	16.2	95.0	87 - 118	20.76	0.884	20	
Chromium	0.04885	0.00500	0.05	0.00175	94.2	85 - 116	0.04865	0.404	20	
Cobalt	0.04879	0.00500	0.05	0.000901	95.8	86 - 115	0.04827	1.07	20	
Copper	0.0489	0.00500	0.05	0.00114	95.5	85 - 118	0.04862	0.574	20	
Iron	5.078	0.200	5	0.2217	97.1	87 - 118	5.025	1.06	20	
Lead	0.04829	0.00500	0.05	0.000086	96.4	88 - 115	0.04803	0.538	20	
Magnesium	13.31	0.200	5	8.499	96.2	83 - 118	13.19	0.9	20	
Nickel	0.05052	0.00500	0.05	0.004569	91.9	85 - 117	0.05024	0.572	20	
Potassium	5.971	0.200	5	1.123	96.9	87 - 115	5.948	0.382	20	
Selenium	0.05066	0.00500	0.05	0.00032	101	80 - 120	0.04935	2.62	20	
Silver	0.04765	0.00500	0.05	0.000045	95.2	85 - 116	0.04755	0.208	20	
Thallium	0.04249	0.00200	0.05	0.000012	85.0	82 - 116	0.04175	1.76	20	
Vanadium	0.04903	0.00500	0.05	0.001125	95.8	86 - 115	0.04894	0.171	20	

MSD Sample ID: **HS24060694-01MSD** Units: **mg/L** Analysis Date: **25-Jun-2024 18:46**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098369** PrepDate: **19-Jun-2024** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.2375	0.0100	0.05	0.2035	68.0	87 - 115	0.2392	0.73	20	SO
Sodium	178	0.400	5	180.2	-43.0	85 - 117	179.5	0.809	20	SO

PDS Sample ID: **HS24060694-01PDS** Units: **mg/L** Analysis Date: **26-Jun-2024 12:23**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099865** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1129	0.0100	0.1	0.002952	110	80 - 120				
Zinc	0.1159	0.00500	0.1	0.004939	111	80 - 120				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24060694-01PDS** Units: **mg/L** Analysis Date: **25-Jun-2024 17:01**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098179** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09399	0.00500	0.1	0.000292	93.7	80 - 120				
Arsenic	0.09435	0.00500	0.1	0.000343	94.0	80 - 120				
Barium	0.2823	0.00500	0.1	0.1994	82.9	80 - 120				
Beryllium	0.0926	0.00200	0.1	0.000021	92.6	80 - 120				
Cadmium	0.09298	0.00200	0.1	0.000148	92.8	80 - 120				
Chromium	0.09246	0.00500	0.1	0.00175	90.7	80 - 120				
Cobalt	0.09298	0.00500	0.1	0.000901	92.1	80 - 120				
Copper	0.0925	0.00500	0.1	0.00114	91.4	80 - 120				
Iron	9.522	0.200	10	0.2217	93.0	80 - 120				
Lead	0.09322	0.00500	0.1	0.000086	93.1	80 - 120				
Magnesium	17.23	0.200	10	8.499	87.3	80 - 120				
Nickel	0.09341	0.00500	0.1	0.004569	88.8	80 - 120				
Potassium	10.32	0.200	10	1.123	91.9	80 - 120				
Selenium	0.09383	0.00500	0.1	0.00032	93.5	80 - 120				
Silver	0.09478	0.00500	0.1	0.000045	94.7	80 - 120				
Thallium	0.09304	0.00200	0.1	0.000012	93.0	80 - 120				
Vanadium	0.09318	0.00500	0.1	0.001125	92.1	80 - 120				

PDS Sample ID: **HS24060694-01PDS** Units: **mg/L** Analysis Date: **25-Jun-2024 18:48**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098372** PrepDate: **19-Jun-2024** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.2838	0.0100	0.1	0.2035	80.4	80 - 120				
Sodium	180.9	0.400	10	180.2	7.39	80 - 120				SO

SD Sample ID: **HS24060694-01SD** Units: **mg/L** Analysis Date: **26-Jun-2024 12:15**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099862** PrepDate: **19-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.0250	0.0500					0.002952	0	10	U
Zinc	0.0125	0.0250					0.004939	0	10	U

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24060694-01SD** Units: **mg/L** Analysis Date: **25-Jun-2024 16:52**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098175** PrepDate: **19-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	0.00625	0.0250					0.000292	0	10	U
Arsenic	0.00625	0.0250					0.000343	0	10	U
Barium	0.1984	0.0250					0.1994	0.5	10	
Beryllium	0.00250	0.0100					0.000021	0	10	U
Cadmium	0.00250	0.0100					0.000148	0	10	U
Calcium	16.25	2.50					16.2	0.343	10	
Chromium	0.00625	0.0250					0.00175	0	10	U
Cobalt	0.000932	0.0250					0.000901	0	10	J
Copper	0.0100	0.0250					0.00114	0	10	U
Iron	0.2285	1.00					0.2217	0	10	J
Lead	0.00625	0.0250					0.000086	0	10	U
Magnesium	8.733	1.00					8.499	2.76	10	
Nickel	0.004624	0.0250					0.004569	0	10	J
Potassium	1.108	1.00					1.123	1.38	10	
Selenium	0.00625	0.0250					0.00032	0	10	U
Silver	0.00250	0.0250					0.000045	0	10	U
Thallium	0.00250	0.0100					0.000012	0	10	U
Vanadium	0.00625	0.0250					0.001125	0	10	U

SD Sample ID: **HS24060694-01SD** Units: **mg/L** Analysis Date: **25-Jun-2024 18:41**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098367** PrepDate: **19-Jun-2024** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Manganese	0.2064	0.0500					0.2035	1.45	10	
Sodium	181.9	2.00					180.2	0.971	10	

The following samples were analyzed in this batch: HS24060795-03 HS24060795-04 HS24060795-05 HS24060795-07 HS24060795-08 HS24060795-09

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

QC BATCH REPORT

Batch ID: 214008 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-214008** Units: **mg/L** Analysis Date: **24-Jun-2024 14:42**
Client ID: Run ID: **HG04_470273** SeqNo: **8094701** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000100	0.000200								U

LCS Sample ID: **LCS-214008** Units: **mg/L** Analysis Date: **24-Jun-2024 14:44**
Client ID: Run ID: **HG04_470273** SeqNo: **8094702** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00494	0.000200	0.005	0	98.8	82 - 119				

MS Sample ID: **HS24060694-02MS** Units: **mg/L** Analysis Date: **24-Jun-2024 14:49**
Client ID: Run ID: **HG04_470273** SeqNo: **8094705** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00476	0.000200	0.005	0.00001400	94.9	82 - 119				

MSD Sample ID: **HS24060694-02MSD** Units: **mg/L** Analysis Date: **24-Jun-2024 14:51**
Client ID: Run ID: **HG04_470273** SeqNo: **8094706** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00469	0.000200	0.005	0.00001400	93.5	82 - 119	0.004760	1.48	20	

The following samples were analyzed in this batch: HS24060795-03 HS24060795-04 HS24060795-05 HS24060795-07 HS24060795-08 HS24060795-09

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

QC BATCH REPORT

Batch ID: 213652 (1) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-213652** Units: **ug/L** Analysis Date: **21-Jun-2024 15:04**
Client ID: Run ID: **SV-6_470172** SeqNo: **8092531** PrepDate: **17-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.020	0.030								U
Surr: 2-Fluorobiphenyl	*0.06401*	*0*	*0.08*	*0*	*80.0*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.07103*	*0*	*0.08*	*0*	*88.8*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06382*	*0*	*0.08*	*0*	*79.8*	*40 - 140*				

LCS Sample ID: **LCS1-213652** Units: **ug/L** Analysis Date: **21-Jun-2024 15:21**
Client ID: Run ID: **SV-6_470172** SeqNo: **8092532** PrepDate: **17-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07522	0.030	0.08	0	94.0	40 - 140				
Surr: 2-Fluorobiphenyl	*0.07364*	*0*	*0.08*	*0*	*92.1*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.0688*	*0*	*0.08*	*0*	*86.0*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.0665*	*0*	*0.08*	*0*	*83.1*	*40 - 140*				

LCSD Sample ID: **LCSD1-213652** Units: **ug/L** Analysis Date: **21-Jun-2024 15:39**
Client ID: Run ID: **SV-6_470172** SeqNo: **8092533** PrepDate: **17-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0887	0.030	0.08	0	111	40 - 140	0.07522	16.5	20	
Surr: 2-Fluorobiphenyl	*0.07494*	*0*	*0.08*	*0*	*93.7*	*40 - 140*	*0.07364*	*1.75*	*20*	
Surr: 4-Terphenyl-d14	*0.07913*	*0*	*0.08*	*0*	*98.9*	*40 - 140*	*0.0688*	*14*	*20*	
Surr: Nitrobenzene-d5	*0.06969*	*0*	*0.08*	*0*	*87.1*	*40 - 140*	*0.0665*	*4.69*	*20*	

The following samples were analyzed in this batch: HS24060795-01 HS24060795-02 HS24060795-06 HS24060795-07 HS24060795-08

Revision: 1

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ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: **HS24060795**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L22-90-R2	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Sep-2024
Oklahoma	2023-140	31-Aug-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

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ALS Houston, US Date: 30-Aug-24

Sample Receipt Checklist

Work Order ID: HS24060795 **Date/Time Received:** 13-Jun-2024 09:12

Client Name: Bhate Environmental **Received by:** Si Ma

Completed By: /S/ Belinda Gomez (eSignature) 13-Jun-2024 16:44 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: w Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.1uc/2.2c	ir31	
Cooler(s)/Kit(s):	blue		
Date/Time sample(s) sent to storage:	6/13/24 1645		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

bhate

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Page: ____ of ____

Project/Phase No: JVPCIBH.0003

COC Number(1): ____

LIMS Number: ____

Facility/Base I.D.: LHAAP / BILL to PCI

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1, 4 - DIOXANE	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
AWDI_061224	12-Jun-2024	0700	-	N		wb	1				X				
18CPTmw6_061224	12-Jun-2024	0745	-	N		wb	5	X	X		X				
mw22_061224	12-Jun-2024	0830	-	N		wb	5	X	X	X					
mw22_061224_ic	12-Jun-2024	0830		FD		wb	5	X	X	X					
mw6_061224	12-Jun-2024	0920		N		wb	5	X	X	X					
109_061224	12-Jun-2024	1015	-	N		wb	5	X	X		X				
mw21_061224	12-Jun-2024	1100	-	N		wb	6	X	X	X	X				
18CPTmw22Sw_061224	12-Jun-2024	1145	-	N		wb	6	X	X	X	X				
mw20_061224	12-Jun-2024	1230	-	N		wb	5	X	X	X					
TripBlank	12-Jun-2024		-	TB		w	2	X							
			-												

Sample Analysis Requested [5] | Quality Assurance Samples [6]

HS24060795

Bhate Environmental Associates, Inc.
LHAAP 18 24

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1. Scott Beesinger	6/12/24	1400	1.		
2.			2. IPC	061312024	0911
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped No.: ____

Method of Shipment: ____

Fed Ex ____ Airbill Number: ____

Analytical lab: ALS 10450 Stancliff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dave Wessey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 08-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

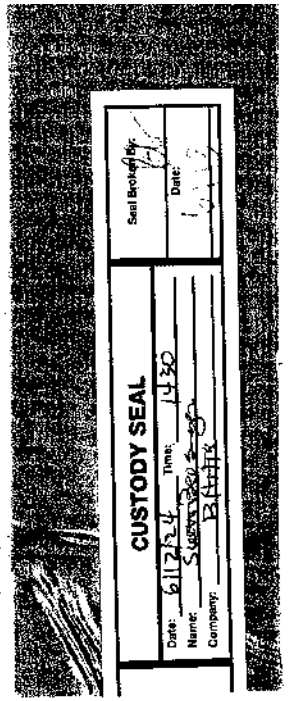
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

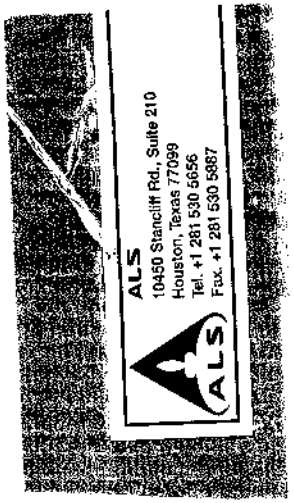
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 101099-01 in the Equipment Blank Lot Control

Cooler 1 Blue Temp in 2.1 corr +0.1

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June 26, 2024 Service Request No:E2400685

ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS24060795

Enclosed are the results of the sample(s) submitted to our laboratory June 13, 2024
For your reference, these analyses have been assigned our service request number **E2400685.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

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Client:	ALS Environmental - US	**Service Request No.:**	E2400685
Project:	HS24060795	**Date Received:**	06/13/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 06/13/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400123: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400685
Project: HS24060795

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400685-001	18CPTMW06_06224	6/12/2024	0745
E2400685-002	MW22_061224	6/12/2024	0830
E2400685-003	MW22_06224_a	6/12/2024	0830
E2400685-004	MW6_06224	6/12/2024	0920
E2400685-005	109_06224	6/12/2024	1015
E2400685-006	MW21_06224	6/12/2024	1100
E2400685-007	18CPTMW22SW_06224	6/12/2024	1145
E2400685-008	MW20_06224	6/12/2024	1200

Service Request Summary

Folder #: **E2400685**
Client Name: ALS Environmental - US
Project Name: HS24060795
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/13/24
Internal Due Date: 6/25/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400685-001	18CPTMW06_06224	Water	06/12/24 0745	**IV**
E2400685-002	MW22_061224	Water	06/12/24 0830	**IV**
E2400685-003	MW22_06224_a	Water	06/12/24 0830	**IV**
E2400685-004	MW6_06224	Water	06/12/24 0920	**IV**
E2400685-005	109_06224	Water	06/12/24 1015	**IV**
E2400685-006	MW21_06224	Water	06/12/24 1100	**IV**
E2400685-007	18CPTMW22SW_06224	Water	06/12/24 1145	**IV**
E2400685-008	MW20_06224	Water	06/12/24 1200	**IV**

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Service Request Summary

Folder #: **E2400685**
Client Name: ALS Environmental - US
Project Name: HS24060795
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/13/24
Internal Due Date: 6/25/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1B
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

E2400685 5
ALS Laboratory Group
HS24060795

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26011**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060795
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060795-02**	**18CPTMW06_06224**	**Water**	**12 Jun 2024 07:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
2.	**HS24060795-03**	**MW22_061224**	**Water**	**12 Jun 2024 08:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
3.	**HS24060795-04**	**MW22_06224_a**	**Water**	**12 Jun 2024 08:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
4.	**HS24060795-05**	**MW6_06224**	**Water**	**12 Jun 2024 09:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
5.	**HS24060795-06**	**109_06224**	**Water**	**12 Jun 2024 10:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
6.	**HS24060795-07**	**MW21_06224**	**Water**	**12 Jun 2024 11:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
7.	**HS24060795-08**	**18CPTMW22SW_06224**	**Water**	**12 Jun 2024 11:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
8.	**HS24060795-09**	**MW20_06224**	**Water**	**12 Jun 2024 12:00**

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26011**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 6-14-24 1745

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

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E2400685 5
ALS Laboratory Group
HS24060795

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24060795 **Date/Time received:** 13 Jun 2024 09:12

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 13 Jun 2024 16:44 (Date/Time) Belinda Gomez (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: w **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	1 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 2.1uc/2.2c ir31

Cooler Information: 1 Cooler(s), blue

Date/Time sampie(s) sent to storage: 6/13/24 1645

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

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Houston, TX 77099
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F: +1 281 530 5887
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400685-001	18CPTMW06_06224	.01	6850/ClO4 DOD			Water	10mL	
2	E2400685-002	MW22_061224	.01	6850/ClO4 DOD			Water	10mL	
3	E2400685-003	MW22_06224_a	.01	6850/ClO4 DOD			Water	10mL	
4	E2400685-004	MW6_06224	.01	6850/ClO4 DOD			Water	10mL	
5	E2400685-005	109_06224	.01	6850/ClO4 DOD			Water	10mL	
6	E2400685-006	MW21_06224	.01	6850/ClO4 DOD			Water	10mL	
7	E2400685-007	18CPTMW22SW_06224	.01	6850/ClO4 DOD			Water	10mL	
8	E2400685-008	MW20_06224	.01	6850/ClO4 DOD			Water	10mL	
9	E2400691-001	MW12_061324	.01	6850/ClO4 DOD			Water	10mL	
10	E2400691-002	1824DPTMW06_061324	.01	6850/ClO4 DOD			Water	10mL	
11	E2400691-003	AWD4_061324	.01	6850/ClO4 DOD			Water	10mL	
12	E2400691-004	18CPTMW15_061324	.01	6850/ClO4 DOD			Water	10mL	
13	E2400691-005	18WW09_061324	.01	6850/ClO4 DOD			Water	10mL	
14	E2400691-006	18WW08_061324	.01	6850/ClO4 DOD			Water	10mL	
15	E2400691-007	18WW22_061324	.01	6850/ClO4 DOD			Water	10mL	
16	E2400691-008	CO4_061324	.01	6850/ClO4 DOD			Water	10mL	
17	E2400702-001	2406120956A ST-3-735	.04	6850/ClO4			Water	10mL	
18	E2400702-002	2406121437A ST-3-586	.01	6850/ClO4			Water	10mL	
19	E2400706-001	LH18/24-SP650_061824_BIX	.01	6850/ClO4 DOD			Water	10mL	
20	E2400706-002	LH18/24-SP650_061824_AIX	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2400335-01	MB		6850/ClO4			Liquid	10mL	
22	EQ2400335-02	LCS		6850/ClO4			Liquid	10mL	
23	EQ2400335-03	DLCS		6850/ClO4			Liquid	10mL	
24	EQ2400335-04	ICS		6850/ClO4			Liquid	10mL	
25	EQ2400335-05	MW12_061324 MS	.01	6850/ClO4 DOD			Liquid	10mL	
26	EQ2400335-06	MW12_061324 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400335-02 10.00µL EQ2400335-02 10.00µL EQ2400335-03 10.00µL EQ2400335-03 10.00µL EQ2400335-04 10.00µL EQ2400335-04 10.00µL
EQ2400335-05 10.00µL EQ2400335-06 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

Preparation Information Benchsheet

Prep Run#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

E2400685-001	100.00µL	E2400685-002	100.00µL	E2400685-003	100.00µL	E2400685-004	100.00µL	E2400685-005	100.00µL	E2400685-006	100.00µL
E2400685-007	100.00µL	E2400685-008	100.00µL	E2400691-001	100.00µL	E2400691-002	100.00µL	E2400691-003	100.00µL	E2400691-004	100.00µL
E2400691-005	100.00µL	E2400691-006	100.00µL	E2400691-007	100.00µL	E2400691-008	100.00µL	E2400702-001	100.00µL	E2400702-002	100.00µL
E2400706-001	100.00µL	E2400706-002	100.00µL	EQ2400335-01	100.00µL	EQ2400335-01	100.00µL	EQ2400335-02	100.00µL	EQ2400335-02	100.00µL
EQ2400335-03	100.00µL	EQ2400335-03	100.00µL	EQ2400335-04	100.00µL	EQ2400335-04	100.00µL	EQ2400335-05	100.00µL	EQ2400335-06	100.00µL

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/21/24 08:25
Finished: 6/21/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 0745
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	18CPTMW06_06224	**Units:**	µg/L
Lab Code:	E2400685-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**6.21**		1.00	0.500	0.250	10	6/21/24	6/24/24 10:47	440426	845372	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 0830
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	MW22_061224	**Units:**	µg/L
Lab Code:	E2400685-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**2770**		10.0	5.00	2.50	100	6/21/24	6/21/24 16:20	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 0830
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	MW22_06224_a	**Units:**	µg/L
Lab Code:	E2400685-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**3870**		10.0	5.00	2.50	100	6/21/24	6/21/24 16:25	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 0920
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	MW6_06224	**Units:**	µg/L
Lab Code:	E2400685-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**2940**		10.0	5.00	2.50	100	6/21/24	6/21/24 16:31	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 1015
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	109_06224	**Units:**	µg/L
Lab Code:	E2400685-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**4390**		20.0	10.0	5.00	200	6/21/24	6/21/24 16:36	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 1100
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	MW21_06224	**Units:**	µg/L
Lab Code:	E2400685-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1610**		10.0	5.00	2.50	100	6/21/24	6/24/24 10:53	440426	845372	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 1145
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	18CPTMW22SW_06224	**Units:**	µg/L
Lab Code:	E2400685-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**9820**		50.0	25.0	12.5	500	6/21/24	6/24/24 10:59	440426	845372	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 1200
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	MW20_06224	**Units:**	µg/L
Lab Code:	E2400685-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.826**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:08	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400335-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 10:17	440426	845357	

Accuracy & Precision

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Analyzed:**	06/21/24
Sample Matrix:	Water	**Date Extracted:**	06/21/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	845357

	Lab Control Sample EQ2400335-02			Duplicate Lab Control Sample EQ2400335-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0934 J	0.100	93	0.0974 J	0.100	97	84-119	4	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0934**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:36	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0974**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:42	440426	845357	

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project HS24060795
Workorder 3366029
Report ID 333305 on 6/28/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global.
ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

ALS is c
RIGHT SOLUTIONS | RIGHT PARTNER

Project HS24060795
Workorder 3366029

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3366029001	HS24060795-02	Ground Water	06/12/2024 07:45	06/26/2024 09:36	CBC	Collected By Client
3366029002	HS24060795-03	Ground Water	06/12/2024 08:30	06/26/2024 09:36	CBC	Collected By Client
3366029003	HS24060795-04	Ground Water	06/12/2024 08:30	06/26/2024 09:36	CBC	Collected By Client
3366029004	HS24060795-05	Ground Water	06/12/2024 09:20	06/26/2024 09:36	CBC	Collected By Client
3366029005	HS24060795-06	Ground Water	06/12/2024 10:15	06/26/2024 09:36	CBC	Collected By Client
3366029006	HS24060795-07	Ground Water	06/12/2024 11:00	06/26/2024 09:36	CBC	Collected By Client
3366029007	HS24060795-08	Ground Water	06/12/2024 11:45	06/26/2024 09:36	CBC	Collected By Client
3366029008	HS24060795-09	Ground Water	06/12/2024 12:00	06/26/2024 09:36	CBC	Collected By Client
3366029009	HS24060795-10	Ground Water	06/12/2024 00:00	06/26/2024 09:36	CBC	Collected By Client

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Project HS24060795
Workorder 3366029

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

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Project HS24060795
Workorder 3366029

Project Notations

Sample Notations

Lab ID	Sample ID		
3366029007	HS24060795-08	**S1**	The 8260 analysis of this sample was initially run within holding time. Re-analysis due to suspected carry-over was conducted past the fourteen day sample holding time.
3366029008	HS24060795-09	**S2**	The 8260 analysis of this sample was initially run within holding time. Re-analysis due to suspected carry-over was conducted past the fourteen day sample holding time.

Result Notations

Notation Ref.	
1	The 8260 analysis of this sample was initially run within holding time. Re-analysis at a dilution for trichloroethene was conducted past the fourteen day sample holding time.
2	The dilution for trichloroethene was taken from a 40ml vial that contained headspace, which was introduced during the primary run.
3	The 8260 analysis of this sample was initially run within holding time. Re-analysis at a dilution for Trichloroethene was conducted past the fourteen day sample holding time.
4	The 8260 analysis of this sample was initially run within holding time. Re-analysis at a dilution for cis-1,2-dichloroethene was conducted past the fourteen day sample holding time.

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Project HS24060795
Workorder 3366029

Detected Results Summary

Client Sample ID	HS24060795-02	Collected	06/12/2024 07:45
Lab Sample ID	3366029001	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	1.5	ug/L	1.0	0.75	0.33	SW846 8260D	#
Methylene Chloride	1.1	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	5.2	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Workorder 3366029

Detected Results Summary

Client Sample ID	HS24060795-03	Collected	06/12/2024 08:30
Lab Sample ID	3366029002	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,2-Dichloroethane	7.0	ug/L	1.0	0.75	0.33	SW846 8260D	#
Benzene	0.70J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloroform	2.7	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	5.7	ug/L	1.0	0.75	0.33	SW846 8260D	#
Tetrachloroethene	0.36J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	172	ug/L	5.0	3.8	1.7	SW846 8260D	#
Vinyl Chloride	0.39J	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Workorder 3366029

Detected Results Summary

Client Sample ID	HS24060795-04	Collected	06/12/2024 08:30
Lab Sample ID	3366029003	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,2-Dichloroethane	6.9	ug/L	1.0	0.75	0.33	SW846 8260D	#
Benzene	0.73J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloroform	2.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	5.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
Tetrachloroethene	0.45J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	334	ug/L	10.0	7.5	3.3	SW846 8260D	#
Vinyl Chloride	0.38J	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Detected Results Summary

Client Sample ID	HS24060795-05	Collected	06/12/2024 09:20
Lab Sample ID	3366029004	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethane	1.7	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,3-Dichlorobenzene	0.68J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	5.9	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	14.3	ug/L	1.0	0.75	0.33	SW846 8260D	#
Vinyl Chloride	1.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Detected Results Summary

Client Sample ID	HS24060795-06	Collected	06/12/2024 10:15
Lab Sample ID	3366029005	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	777	ug/L	10.0	7.5	3.3	SW846 8260D	#
Tetrachloroethene	0.94J	ug/L	1.0	0.75	0.33	SW846 8260D	#
trans-1,2-Dichloroethene	4.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	1140	ug/L	10.0	7.5	3.3	SW846 8260D	#
Vinyl Chloride	3.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Detected Results Summary

Client Sample ID	HS24060795-07	Collected	06/12/2024 11:00
Lab Sample ID	3366029006	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1,2-Trichloroethane	17.2	ug/L	1.0	0.75	0.33	SW846 8260D	#
Benzene	1.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	4560	ug/L	100	75.0	33.0	SW846 8260D	#
Tetrachloroethene	2.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
trans-1,2-Dichloroethene	17.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	6280	ug/L	100	75.0	33.0	SW846 8260D	#
Vinyl Chloride	38.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Workorder 3366029

Detected Results Summary

Client Sample ID	HS24060795-08	Collected	06/12/2024 11:45
Lab Sample ID	3366029007	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Acetone	17.2	ug/L	5.0	3.8	1.6	SW846 8260D	#
Trichloroethene	1.2	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Workorder 3366029

Results

Client Sample ID	HS24060795-02	Collected	06/12/2024 07:45
Lab Sample ID	3366029001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 21:52	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
cis-1,2-Dichloroethene	1.5		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 21:52	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Methylene Chloride	1.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 21:52	PDK	A

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-02	Collected	06/12/2024 07:45
Lab Sample ID	3366029001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Trichloroethene	5.2		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	81 – 118	06/26/2024 21:52	
4-Bromofluorobenzene	460-00-4	91%	85 – 114	06/26/2024 21:52	
Dibromofluoromethane	1868-53-7	95.2%	80 – 119	06/26/2024 21:52	
Toluene-d8	2037-26-5	98.5%	89 – 112	06/26/2024 21:52	

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-03	Collected	06/12/2024 08:30
Lab Sample ID	3366029002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2-Dichloroethane	7.0		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
Benzene	0.70J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 22:12	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Chloroform	2.7		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
cis-1,2-Dichloroethene	5.7		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 22:12	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 22:12	PDK	A

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-03	Collected	06/12/2024 08:30
Lab Sample ID	3366029002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Tetrachloroethene	0.36J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Trichloroethene	172	1,2	ug/L	5.0	3.8	1.7	SW846 8260D	5	06/27/2024 22:13	BST	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Vinyl Chloride	0.39J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 22:13	
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/26/2024 22:12	
4-Bromofluorobenzene	460-00-4	91.5%	85 – 114	06/27/2024 22:13	
4-Bromofluorobenzene	460-00-4	92.7%	85 – 114	06/26/2024 22:12	
Dibromofluoromethane	1868-53-7	96.5%	80 – 119	06/27/2024 22:13	
Dibromofluoromethane	1868-53-7	94.1%	80 – 119	06/26/2024 22:12	
Toluene-d8	2037-26-5	96.6%	89 – 112	06/27/2024 22:13	
Toluene-d8	2037-26-5	101%	89 – 112	06/26/2024 22:12	

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-04	Collected	06/12/2024 08:30
Lab Sample ID	3366029003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2-Dichloroethane	6.9		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
Benzene	0.73J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 22:33	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Chloroform	2.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
cis-1,2-Dichloroethene	5.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 22:33	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 22:33	PDK	A

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-04	Collected	06/12/2024 08:30
Lab Sample ID	3366029003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Tetrachloroethene	0.45J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Trichloroethene	334	3	ug/L	10.0	7.5	3.3	SW846 8260D	10	06/27/2024 17:49	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Vinyl Chloride	0.38J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/26/2024 22:33	
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 17:49	
4-Bromofluorobenzene	460-00-4	102%	85 – 114	06/26/2024 22:33	
4-Bromofluorobenzene	460-00-4	92.6%	85 – 114	06/27/2024 17:49	
Dibromofluoromethane	1868-53-7	94.3%	80 – 119	06/26/2024 22:33	
Dibromofluoromethane	1868-53-7	101%	80 – 119	06/27/2024 17:49	
Toluene-d8	2037-26-5	99%	89 – 112	06/26/2024 22:33	
Toluene-d8	2037-26-5	99.3%	89 – 112	06/27/2024 17:49	

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-05	Collected	06/12/2024 09:20
Lab Sample ID	3366029004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1-Dichloroethane	1.7		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,3-Dichlorobenzene	0.68J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 22:53	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
cis-1,2-Dichloroethene	5.9		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 22:53	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 22:53	PDK	A

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-05	Collected	06/12/2024 09:20
Lab Sample ID	3366029004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Trichloroethene	14.3		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Vinyl Chloride	1.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	81 – 118	06/26/2024 22:53	
4-Bromofluorobenzene	460-00-4	106%	85 – 114	06/26/2024 22:53	
Dibromofluoromethane	1868-53-7	99.1%	80 – 119	06/26/2024 22:53	
Toluene-d8	2037-26-5	107%	89 – 112	06/26/2024 22:53	

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-06	Collected	06/12/2024 10:15
Lab Sample ID	3366029005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 23:13	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
cis-1,2-Dichloroethene	777	4	ug/L	10.0	7.5	3.3	SW846 8260D	10	06/27/2024 18:09	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 23:13	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 23:13	PDK	A

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-06	Collected	06/12/2024 10:15
Lab Sample ID	3366029005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Tetrachloroethene	0.94J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
trans-1,2-Dichloroethene	4.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Trichloroethene	1140	1	ug/L	10.0	7.5	3.3	SW846 8260D	10	06/27/2024 18:09	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Vinyl Chloride	3.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.7%	81 – 118	06/26/2024 23:13	
1,2-Dichloroethane-d4	17060-07-0	94.7%	81 – 118	06/27/2024 18:09	
4-Bromofluorobenzene	460-00-4	95.9%	85 – 114	06/26/2024 23:13	
4-Bromofluorobenzene	460-00-4	89.9%	85 – 114	06/27/2024 18:09	
Dibromofluoromethane	1868-53-7	92%	80 – 119	06/26/2024 23:13	
Dibromofluoromethane	1868-53-7	92.6%	80 – 119	06/27/2024 18:09	
Toluene-d8	2037-26-5	96.7%	89 – 112	06/26/2024 23:13	
Toluene-d8	2037-26-5	91.8%	89 – 112	06/27/2024 18:09	

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-07	Collected	06/12/2024 11:00
Lab Sample ID	3366029006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1,2-Trichloroethane	17.2		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
Benzene	1.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 23:34	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
cis-1,2-Dichloroethene	4560	4	ug/L	100	75.0	33.0	SW846 8260D	100	06/27/2024 18:48	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 23:34	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 23:34	PDK	A

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-07	Collected	06/12/2024 11:00
Lab Sample ID	3366029006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Tetrachloroethene	2.4		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
trans-1,2-Dichloroethene	17.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Trichloroethene	6280	1	ug/L	100	75.0	33.0	SW846 8260D	100	06/27/2024 18:48	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Vinyl Chloride	38.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	115%	81 – 118	06/26/2024 23:34	
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/27/2024 18:48	
4-Bromofluorobenzene	460-00-4	103%	85 – 114	06/26/2024 23:34	
4-Bromofluorobenzene	460-00-4	93.8%	85 – 114	06/27/2024 18:48	
Dibromofluoromethane	1868-53-7	100%	80 – 119	06/26/2024 23:34	
Dibromofluoromethane	1868-53-7	99.9%	80 – 119	06/27/2024 18:48	
Toluene-d8	2037-26-5	104%	89 – 112	06/26/2024 23:34	
Toluene-d8	2037-26-5	101%	89 – 112	06/27/2024 18:48	

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-08	Collected	06/12/2024 11:45
Lab Sample ID	3366029007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1,1-Trichloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1,2-Trichloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1-Dichloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1-Dichloroethene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1-Dichloropropene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2,3-Trichloropropane	2.5U	U,S1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,S1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2-Dibromoethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2-Dichlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2-Dichloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2-Dichloropropane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,3-Dichlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,3-Dichloropropane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,4-Dichlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
2,2-Dichloropropane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
2-Butanone	3.8U	U,S1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
2-Hexanone	3.8U	U,S1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,S1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
Acetone	17.2	S1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
Benzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Bromobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 13:10	ILY	A
Bromochloromethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Bromodichloromethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Bromoform	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Bromomethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Carbon Disulfide	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Carbon Tetrachloride	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Chlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Chlorodibromomethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Chloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Chloroform	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Chloromethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
cis-1,2-Dichloroethene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
cis-1,3-Dichloropropene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Dibromomethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Dichlorodifluoromethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Ethylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Hexachlorobutadiene	3.8U	U,S1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 13:10	ILY	A
Isopropylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Methylene Chloride	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
mp-Xylene	1.5U	U,S1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 13:10	ILY	A

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-08	Collected	06/12/2024 11:45
Lab Sample ID	3366029007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
n-Butylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
n-Propylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
o-Chlorotoluene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
o-Xylene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
p-Chlorotoluene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
p-Isopropyltoluene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
sec-Butylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Styrene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
tert-Butylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Tetrachloroethene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Toluene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
trans-1,2-Dichloroethene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
trans-1,3-Dichloropropene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Trichloroethene	1.2	S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Trichlorofluoromethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Vinyl Chloride	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.4%	81 – 118	06/27/2024 13:10	
4-Bromofluorobenzene	460-00-4	97.2%	85 – 114	06/27/2024 13:10	
Dibromofluoromethane	1868-53-7	97.5%	80 – 119	06/27/2024 13:10	
Toluene-d8	2037-26-5	101%	89 – 112	06/27/2024 13:10	

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-09	Collected	06/12/2024 12:00
Lab Sample ID	3366029008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1,1-Trichloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1,2-Trichloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1-Dichloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1-Dichloroethene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1-Dichloropropene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2,3-Trichloropropane	2.5U	U,S2	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,S2	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2-Dibromoethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2-Dichlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2-Dichloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2-Dichloropropane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,3-Dichlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,3-Dichloropropane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,4-Dichlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
2,2-Dichloropropane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
2-Butanone	3.8U	U,S2	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
2-Hexanone	3.8U	U,S2	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,S2	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
Acetone	3.8U	U,S2	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
Benzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Bromobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 13:30	ILY	A
Bromochloromethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Bromodichloromethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Bromoform	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Bromomethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Carbon Disulfide	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Carbon Tetrachloride	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Chlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Chlorodibromomethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Chloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Chloroform	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Chloromethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
cis-1,2-Dichloroethene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
cis-1,3-Dichloropropene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Dibromomethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Dichlorodifluoromethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Ethylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Hexachlorobutadiene	3.8U	U,S2	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 13:30	ILY	A
Isopropylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Methylene Chloride	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
mp-Xylene	1.5U	U,S2	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 13:30	ILY	A

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-09	Collected	06/12/2024 12:00
Lab Sample ID	3366029008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
n-Butylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
n-Propylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
o-Chlorotoluene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
o-Xylene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
p-Chlorotoluene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
p-Isopropyltoluene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
sec-Butylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Styrene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
tert-Butylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Tetrachloroethene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Toluene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
trans-1,2-Dichloroethene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
trans-1,3-Dichloropropene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Trichloroethene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Trichlorofluoromethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Vinyl Chloride	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 13:30	
4-Bromofluorobenzene	460-00-4	95.3%	85 – 114	06/27/2024 13:30	
Dibromofluoromethane	1868-53-7	101%	80 – 119	06/27/2024 13:30	
Toluene-d8	2037-26-5	102%	89 – 112	06/27/2024 13:30	

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-10	Collected	06/12/2024 00:00
Lab Sample ID	3366029009	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 21:31	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 21:31	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 21:31	PDK	A

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Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-10	Collected	06/12/2024 00:00
Lab Sample ID	3366029009	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/26/2024 21:31	
4-Bromofluorobenzene	460-00-4	95%	85 – 114	06/26/2024 21:31	
Dibromofluoromethane	1868-53-7	92.4%	80 – 119	06/26/2024 21:31	
Toluene-d8	2037-26-5	100%	89 – 112	06/26/2024 21:31	

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Project HS24060795
Workorder 3366029

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3366029001	HS24060795-02	SW846 8260D	N/A	
3366029002	HS24060795-03	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366029003	HS24060795-04	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366029004	HS24060795-05	SW846 8260D	N/A	
3366029005	HS24060795-06	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366029006	HS24060795-07	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366029007	HS24060795-08	SW846 8260D	N/A	
3366029008	HS24060795-09	SW846 8260D	N/A	
3366029009	HS24060795-10	SW846 8260D	N/A	

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Project HS24060795
Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1234508	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366029001	3366029009	3366029002	3366029003
3366029004	3366029005	3366029006	

Matrix Spike 3844909 (MS) 3366031001 (non-Project Sample) For QC Batch 1234508

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3844910 (MSD) 3366031001 (non-Project Sample) For QC Batch 1234508

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	20.10	0	20	100	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	19.10	0	20	95.6	78 - 124	RPD 4.80 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	23.70	0	20	118	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	22.30	0	20	111	74 - 131	RPD 6.14 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.70	0	20	118	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	22.90	0	20	115	71 - 121	RPD 3.18 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	22.10	0	20	111	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21.30	0	20	106	80 - 119	RPD 3.95 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	26.10	2.80	20	116	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	23.90	2.80	20	105	77 - 125	RPD 8.65 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	29.90	6.40	20	117	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	28.10	6.40	20	109	71 - 131	RPD 6.02 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.20	0	20	116	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.40	0	20	107	79 - 125	RPD 7.72 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	18.20	0	20	91	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	17.80	0	20	89.2	69 - 129	RPD 1.99 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.40	0	20	112	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	22	0	20	110	73 - 122	RPD 1.98 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	22.30	0	20	112	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.10	0	20	111	69 - 130	RPD 0.92 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.20	0	20	106	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	20.50	0	20	103	76 - 124	RPD 3.16 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	18	0	20	90.1	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	18	0	20	90.1	62 - 128	RPD 0.04 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	19.50	0	20	97.6	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	19.30	0	20	96.7	77 - 121	RPD 0.88 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	22.70	0	20	113	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	21.90	0	20	109	80 - 119	RPD 3.44 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	23.80	0	20	119	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	22	0	20	110	73 - 128	RPD 7.64 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	22.40	0	20	112	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.10	0	20	105	78 - 122	RPD 5.99 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	23.20	0	20	116	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	22.40	0	20	112	75 - 124	RPD 3.71 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.50	0	20	113	80 - 119		

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Project HS24060795
Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,3-Dichlorobenzene	541-73-1	MSD	21.90	0	20	109	80 - 119	RPD 2.89 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	22.60	0	20	113	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	21.70	0	20	108	80 - 119	RPD 4.08 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	22.30	0	20	112	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	21.70	0	20	108	79 - 118	RPD 3.12 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	22.90	0	20	114	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	20.30	0	20	101	60 - 139	RPD 11.90 (Max-30)	
2-Butanone	78-93-3	MS	101	0	100	101	56 - 143		
2-Butanone	78-93-3	MSD	95	0	100	95	56 - 143	RPD 6.52 (Max-30)	
2-Hexanone	591-78-6	MS	101	0	100	101	57 - 139		
2-Hexanone	591-78-6	MSD	97.40	0	100	97.4	57 - 139	RPD 3.82 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	104	0	100	104	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	101	0	100	101	67 - 130	RPD 3.57 (Max-30)	
Acetone	67-64-1	MS	97.60	0	100	97.6	39 - 160		
Acetone	67-64-1	MSD	94.10	0	100	94.1	39 - 160	RPD 3.72 (Max-30)	
Benzene	71-43-2	MS	22.30	0.24	20	110	79 - 120		
Benzene	71-43-2	MSD	20.50	0.24	20	101	79 - 120	RPD 8.48 (Max-30)	
Bromobenzene	108-86-1	MS	22.20	0	20	111	80 - 120		
Bromobenzene	108-86-1	MSD	21.20	0	20	106	80 - 120	RPD 4.61 (Max-30)	
Bromochloromethane	74-97-5	MS	22.70	0	20	113	78 - 123		
Bromochloromethane	74-97-5	MSD	21.10	0	20	106	78 - 123	RPD 7.20 (Max-30)	
Bromodichloromethane	75-27-4	MS	20	0	20	100	79 - 125		
Bromodichloromethane	75-27-4	MSD	18.60	0	20	93	79 - 125	RPD 7.20 (Max-30)	
Bromoform	75-25-2	MS	17.60	0	20	87.9	66 - 130		
Bromoform	75-25-2	MSD	17.60	0	20	88	66 - 130	RPD 0.04 (Max-30)	
Bromomethane	74-83-9	MS	24.30	0	20	122	53 - 141		
Bromomethane	74-83-9	MSD	22.50	0	20	112	53 - 141	RPD 7.90 (Max-30)	
Carbon Disulfide	75-15-0	MS	22.30	0	20	111	64 - 133		
Carbon Disulfide	75-15-0	MSD	20.50	0	20	103	64 - 133	RPD 8.27 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	20.40	0	20	102	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	18.60	0	20	92.8	72 - 136	RPD 9.62 (Max-30)	
Chlorobenzene	108-90-7	MS	21.80	0	20	109	82 - 118		
Chlorobenzene	108-90-7	MSD	21.10	0	20	106	82 - 118	RPD 3.13 (Max-30)	
Chlorodibromomethane	124-48-1	MS	18.50	0	20	92.6	74 - 126		
Chlorodibromomethane	124-48-1	MSD	17.90	0	20	89.4	74 - 126	RPD 3.47 (Max-30)	
Chloroethane	75-00-3	MS	21.80	0	20	109	60 - 138		
Chloroethane	75-00-3	MSD	19.70	0	20	98.5	60 - 138	RPD 10.10 (Max-30)	
Chloroform	67-66-3	MS	22.60	0	20	113	79 - 124		
Chloroform	67-66-3	MSD	20.40	0	20	102	79 - 124	RPD 10.20 (Max-30)	
Chloromethane	74-87-3	MS	22.60	0	20	113	50 - 139		
Chloromethane	74-87-3	MSD	20.70	0	20	103	50 - 139	RPD 8.70 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	82.10	56.90	20	126*	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	76.20	56.90	20	96.3	78 - 123	RPD 7.51 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.30	0	20	96.6	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	18.20	0	20	91.1	75 - 124	RPD 5.85 (Max-30)	
Dibromomethane	74-95-3	MS	21.20	0	20	106	79 - 123		
Dibromomethane	74-95-3	MSD	20.50	0	20	102	79 - 123	RPD 3.61 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	21.70	0	20	109	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	19.50	0	20	97.6	32 - 152	RPD 10.80 (Max-30)	

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Project HS24060795
Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Ethylbenzene	100-41-4	MS	20.80	0	20	104	79 - 121		
Ethylbenzene	100-41-4	MSD	19.90	0	20	99.3	79 - 121	RPD 4.44 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	19.80	0	20	99	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.20	0	20	101	66 - 134	RPD 1.78 (Max-30)	
Isopropylbenzene	98-82-8	MS	24.40	0	20	122	72 - 131		
Isopropylbenzene	98-82-8	MSD	23.50	0	20	118	72 - 131	RPD 3.44 (Max-30)	
Methylene Chloride	75-09-2	MS	21.70	0	20	109	74 - 124		
Methylene Chloride	75-09-2	MSD	20.30	0	20	101	74 - 124	RPD 6.84 (Max-30)	
mp-Xylene	108383/106423	MS	41.10	0	40	103	80 - 121		
mp-Xylene	108383/106423	MSD	39.30	0	40	98.2	80 - 121	RPD 4.43 (Max-30)	
Naphthalene	91-20-3	MS	18.50	0	20	92.5	61 - 128		
Naphthalene	91-20-3	MSD	17.90	0	20	89.6	61 - 128	RPD 3.18 (Max-30)	
n-Butylbenzene	104-51-8	MS	22.70	0	20	113	75 - 128		
n-Butylbenzene	104-51-8	MSD	21.10	0	20	106	75 - 128	RPD 7 (Max-30)	
n-Propylbenzene	103-65-1	MS	23.70	0	20	118	76 - 126		
n-Propylbenzene	103-65-1	MSD	22.40	0	20	112	76 - 126	RPD 5.32 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.40	0	20	117	79 - 122		
o-Chlorotoluene	95-49-8	MSD	22.60	0	20	113	79 - 122	RPD 3.66 (Max-30)	
o-Xylene	95-47-6	MS	20.30	0	20	101	78 - 122		
o-Xylene	95-47-6	MSD	19.60	0	20	97.9	78 - 122	RPD 3.35 (Max-30)	
p-Chlorotoluene	106-43-4	MS	23.50	0	20	117	78 - 122		
p-Chlorotoluene	106-43-4	MSD	22.80	0	20	114	78 - 122	RPD 3.03 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	23.40	0	20	117	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	22.40	0	20	112	77 - 127	RPD 4.58 (Max-30)	
sec-Butylbenzene	135-98-8	MS	24.60	0	20	123	77 - 126		
sec-Butylbenzene	135-98-8	MSD	23.40	0	20	117	77 - 126	RPD 4.97 (Max-30)	
Styrene	100-42-5	MS	21.20	0	20	106	78 - 123		
Styrene	100-42-5	MSD	20	0	20	100	78 - 123	RPD 5.62 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24	0	20	120	78 - 124		
tert-Butylbenzene	98-06-6	MSD	22.90	0	20	115	78 - 124	RPD 4.76 (Max-30)	
Tetrachloroethene	127-18-4	MS	20.90	0	20	104	74 - 129		
Tetrachloroethene	127-18-4	MSD	20	0	20	100	74 - 129	RPD 4.23 (Max-30)	
Toluene	108-88-3	MS	20.90	0	20	104	80 - 121		
Toluene	108-88-3	MSD	19.90	0	20	99.3	80 - 121	RPD 5.10 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23.60	0.79	20	114	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	22.40	0.79	20	108	75 - 124	RPD 5.35 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	19.60	0	20	98	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19	0	20	94.9	73 - 127	RPD 3.23 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	21.10	0	20	106	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	19.30	0	20	96.4	65 - 141	RPD 9.03 (Max-30)	
Vinyl Chloride	75-01-4	MS	22.90	0.97	20	110	58 - 137		
Vinyl Chloride	75-01-4	MSD	20.50	0.97	20	97.6	58 - 137	RPD 11.20 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	33.50	30	112	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	30.80	30	103	81 - 118	

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Project HS24060795
Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4-Bromofluorobenzene	460-00-4	MS	28	30	93.3	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.80	30	96	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30.40	30	101	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	28.30	30	94.4	80 - 119	
Toluene-d8	2037-26-5	MS	29.10	30	97.2	89 - 112	
Toluene-d8	2037-26-5	MSD	29.10	30	97	89 - 112	

Method Blank 3844895 (MB) Created on 06/26/2024 20:11 For QC Batch 1234508

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U

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Project HS24060795
Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.30	30	101	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	29.10	30	97.1	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.90	30	92.9	80 - 119	
Toluene-d8	2037-26-5	BLK	30.30	30	101	89 - 112	

Lab Control Standard 3844896 (LCS) Created on 06/26/2024 20:11 For QC Batch 1234508

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	20.20		20	101	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.90		20	109	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23.70		20	118	71 - 121		

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Project HS24060795
Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,2-Trichloroethane	79-00-5	LCS	22.20		20	111	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	21		20	105	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.20		20	106	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	20.90		20	104	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.90		20	99.3	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	22.80		20	114	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.90		20	124	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	21.50		20	107	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.20		20	90.8	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19.60		20	97.9	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	23.30		20	116	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	20.20		20	101	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	21		20	105	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.90		20	115	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	23.70		20	119	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	22.10		20	111	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	23.20		20	116	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21.50		20	108	60 - 139		
2-Butanone	78-93-3	LCS	105		100	105	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	67 - 130		
Acetone	67-64-1	LCS	113		100	113	39 - 160		
Benzene	71-43-2	LCS	20		20	100	79 - 120		
Bromobenzene	108-86-1	LCS	22.40		20	112	80 - 120		
Bromochloromethane	74-97-5	LCS	21.70		20	109	78 - 123		
Bromodichloromethane	75-27-4	LCS	19.40		20	97.1	79 - 125		
Bromoform	75-25-2	LCS	18.70		20	93.4	66 - 130		
Bromomethane	74-83-9	LCS	21.30		20	106	53 - 141		
Carbon Disulfide	75-15-0	LCS	20.80		20	104	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.80		20	88.9	72 - 136		
Chlorobenzene	108-90-7	LCS	21.60		20	108	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.70		20	93.4	74 - 126		
Chloroethane	75-00-3	LCS	20.10		20	101	60 - 138		
Chloroform	67-66-3	LCS	21.10		20	106	79 - 124		
Chloromethane	74-87-3	LCS	20.60		20	103	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	21.40		20	107	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	20		20	99.9	75 - 124		
Dibromomethane	74-95-3	LCS	21.10		20	106	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	20.30		20	102	32 - 152		
Ethylbenzene	100-41-4	LCS	20.40		20	102	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	22.80		20	114	66 - 134		
Isopropylbenzene	98-82-8	LCS	24.30		20	122	72 - 131		
Methylene Chloride	75-09-2	LCS	20.50		20	103	74 - 124		
mp-Xylene	108383/106423	LCS	40.30		40	101	80 - 121		
Naphthalene	91-20-3	LCS	19.50		20	97.3	61 - 128		
n-Butylbenzene	104-51-8	LCS	23		20	115	75 - 128		
n-Propylbenzene	103-65-1	LCS	22.90		20	114	76 - 126		

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Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
o-Chlorotoluene	95-49-8	LCS	23.50		20	118	79 - 122		
o-Xylene	95-47-6	LCS	20.10		20	101	78 - 122		
p-Chlorotoluene	106-43-4	LCS	24.20		20	121	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	22.70		20	114	77 - 127		
sec-Butylbenzene	135-98-8	LCS	24.20		20	121	77 - 126		
Styrene	100-42-5	LCS	21.20		20	106	78 - 123		
tert-Butylbenzene	98-06-6	LCS	24.10		20	120	78 - 124		
Tetrachloroethene	127-18-4	LCS	20.50		20	103	74 - 129		
Toluene	108-88-3	LCS	20.60		20	103	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	20.90		20	105	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	20		20	100	73 - 127		
Trichloroethene	79-01-6	LCS	19.20		20	95.9	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	20		20	100	65 - 141		
Vinyl Chloride	75-01-4	LCS	20.20		20	101	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.90	30	99.7	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	31.20	30	104	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.30	30	97.7	80 - 119	
Toluene-d8	2037-26-5	LCS	30.20	30	101	89 - 112	

QC Batch

QC Batch	1235282	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366029007 3366029008 3366029003 3366029005 3366029006

Matrix Spike 3845270 (MS) 3366027010 (non-Project Sample) For QC Batch 1235282

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3845271 (MSD) 3366027010 (non-Project Sample) For QC Batch 1235282

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	23.80	0	20	119	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	22.40	0	20	112	78 - 124	RPD 6.18 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	24.70	0	20	123	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	23.20	0	20	116	74 - 131	RPD 6.07 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23	0	20	115	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	21	0	20	105	71 - 121	RPD 9.25 (Max-30)	

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Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,2-Trichloroethane	79-00-5	MS	22.40	0	20	112	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21.30	0	20	107	80 - 119	RPD 4.95 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	21.30	0	20	107	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	19.90	0	20	99.4	77 - 125	RPD 7.06 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	24.30	0	20	121	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	22.40	0	20	112	71 - 131	RPD 8.30 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.70	0	20	119	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.60	0	20	108	79 - 125	RPD 9.24 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	22	0	20	110	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	19.70	0	20	98.7	69 - 129	RPD 10.70 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.50	0	20	113	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	20.80	0	20	104	73 - 122	RPD 8.10 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	24.30	0	20	121	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.20	0	20	111	69 - 130	RPD 8.86 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	24.20	0	20	121	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	21.30	0	20	106	76 - 124	RPD 13 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	20.20	0	20	101	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	19.10	0	20	95.4	62 - 128	RPD 5.76 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	22.30	0	20	111	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	21.10	0	20	106	77 - 121	RPD 5.32 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	23	0	20	115	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	20.30	0	20	102	80 - 119	RPD 12.20 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	22.80	0	20	114	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	21.40	0	20	107	73 - 128	RPD 5.99 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	23.40	0	20	117	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.60	0	20	108	78 - 122	RPD 8.03 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	24.30	0	20	121	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	21.60	0	20	108	75 - 124	RPD 11.80 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.90	0	20	115	80 - 119		
1,3-Dichlorobenzene	541-73-1	MSD	20.30	0	20	102	80 - 119	RPD 12 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	23.10	0	20	115	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	21.60	0	20	108	80 - 119	RPD 6.58 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	22.40	0	20	112	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	19.90	0	20	99.4	79 - 118	RPD 11.80 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	22.50	0	20	112	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	20	0	20	99.9	60 - 139	RPD 11.70 (Max-30)	
2-Butanone	78-93-3	MS	104	0	100	104	56 - 143		
2-Butanone	78-93-3	MSD	101	0	100	101	56 - 143	RPD 2.82 (Max-30)	
2-Hexanone	591-78-6	MS	100	0	100	100	57 - 139		
2-Hexanone	591-78-6	MSD	92.40	0	100	92.4	57 - 139	RPD 8 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	102	0	100	102	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	95.80	0	100	95.8	67 - 130	RPD 6.06 (Max-30)	
Acetone	67-64-1	MS	108	0	100	108	39 - 160		
Acetone	67-64-1	MSD	103	0	100	103	39 - 160	RPD 4.90 (Max-30)	
Benzene	71-43-2	MS	23.40	0	20	117	79 - 120		
Benzene	71-43-2	MSD	21.40	0	20	107	79 - 120	RPD 8.71 (Max-30)	
Bromobenzene	108-86-1	MS	22.80	0	20	114	80 - 120		
Bromobenzene	108-86-1	MSD	20.30	0	20	101	80 - 120	RPD 11.80 (Max-30)	
Bromochloromethane	74-97-5	MS	23.10	0	20	116	78 - 123		

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Project HS24060795
Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	MSD	22.80	0	20	114	78 - 123	RPD 1.52 (Max-30)	
Bromodichloromethane	75-27-4	MS	23.50	0	20	117	79 - 125		
Bromodichloromethane	75-27-4	MSD	22.40	0	20	112	79 - 125	RPD 4.51 (Max-30)	
Bromoform	75-25-2	MS	20.20	0	20	101	66 - 130		
Bromoform	75-25-2	MSD	18.90	0	20	94.4	66 - 130	RPD 6.94 (Max-30)	
Bromomethane	74-83-9	MS	22.30	0	20	111	53 - 141		
Bromomethane	74-83-9	MSD	20.70	0	20	104	53 - 141	RPD 7.40 (Max-30)	
Carbon Disulfide	75-15-0	MS	23	0	20	115	64 - 133		
Carbon Disulfide	75-15-0	MSD	20.90	0	20	104	64 - 133	RPD 9.82 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	22.50	0	20	112	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	19.90	0	20	99.5	72 - 136	RPD 12.10 (Max-30)	
Chlorobenzene	108-90-7	MS	23.10	0	20	115	82 - 118		
Chlorobenzene	108-90-7	MSD	21.30	0	20	106	82 - 118	RPD 8.14 (Max-30)	
Chlorodibromomethane	124-48-1	MS	20.40	0	20	102	74 - 126		
Chlorodibromomethane	124-48-1	MSD	19.20	0	20	95.8	74 - 126	RPD 6.38 (Max-30)	
Chloroethane	75-00-3	MS	23.80	0	20	119	60 - 138		
Chloroethane	75-00-3	MSD	21	0	20	105	60 - 138	RPD 12.70 (Max-30)	
Chloroform	67-66-3	MS	22.40	0	20	112	79 - 124		
Chloroform	67-66-3	MSD	20.80	0	20	104	79 - 124	RPD 7.35 (Max-30)	
Chloromethane	74-87-3	MS	21.20	0.33	20	104	50 - 139		
Chloromethane	74-87-3	MSD	19.30	0.33	20	95.1	50 - 139	RPD 8.96 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	23.70	0	20	118	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	22.40	0	20	112	78 - 123	RPD 5.63 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	20.30	0	20	102	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	19	0	20	94.9	75 - 124	RPD 6.92 (Max-30)	
Dibromomethane	74-95-3	MS	22.90	0	20	114	79 - 123		
Dibromomethane	74-95-3	MSD	22.10	0	20	110	79 - 123	RPD 3.68 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	22.40	0	20	112	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	19.50	0	20	97.4	32 - 152	RPD 13.70 (Max-30)	
Ethylbenzene	100-41-4	MS	23.60	0	20	118	79 - 121		
Ethylbenzene	100-41-4	MSD	21.20	0	20	106	79 - 121	RPD 11.10 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	23	0	20	115	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.40	0	20	102	66 - 134	RPD 12 (Max-30)	
Isopropylbenzene	98-82-8	MS	25.10	0	20	125	72 - 131		
Isopropylbenzene	98-82-8	MSD	21.90	0	20	110	72 - 131	RPD 13.40 (Max-30)	
Methylene Chloride	75-09-2	MS	23.10	0	20	116	74 - 124		
Methylene Chloride	75-09-2	MSD	22	0	20	110	74 - 124	RPD 5.10 (Max-30)	
mp-Xylene	108383/106423	MS	47.50	0	40	119	80 - 121		
mp-Xylene	108383/106423	MSD	43.40	0	40	109	80 - 121	RPD 8.91 (Max-30)	
Naphthalene	91-20-3	MS	20.90	0	20	104	61 - 128		
Naphthalene	91-20-3	MSD	19.10	0	20	95.3	61 - 128	RPD 9.09 (Max-30)	
n-Butylbenzene	104-51-8	MS	23.30	0	20	116	75 - 128		
n-Butylbenzene	104-51-8	MSD	20.70	0	20	104	75 - 128	RPD 11.70 (Max-30)	
n-Propylbenzene	103-65-1	MS	22.90	0	20	115	76 - 126		
n-Propylbenzene	103-65-1	MSD	20	0	20	99.8	76 - 126	RPD 13.90 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.80	0	20	119	79 - 122		
o-Chlorotoluene	95-49-8	MSD	20.90	0	20	105	79 - 122	RPD 12.70 (Max-30)	
o-Xylene	95-47-6	MS	23.70	0	20	119	78 - 122		
o-Xylene	95-47-6	MSD	21.50	0	20	108	78 - 122	RPD 9.63 (Max-30)	

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Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
p-Chlorotoluene	106-43-4	MS	23.10	0	20	116	78 - 122		
p-Chlorotoluene	106-43-4	MSD	20.50	0	20	103	78 - 122	RPD 11.90 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	23.70	0	20	119	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	20.90	0	20	105	77 - 127	RPD 12.50 (Max-30)	
sec-Butylbenzene	135-98-8	MS	24.10	0	20	121	77 - 126		
sec-Butylbenzene	135-98-8	MSD	21.20	0	20	106	77 - 126	RPD 13 (Max-30)	
Styrene	100-42-5	MS	21.80	0	20	109	78 - 123		
Styrene	100-42-5	MSD	19.20	0	20	96.2	78 - 123	RPD 12.50 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24.10	0	20	121	78 - 124		
tert-Butylbenzene	98-06-6	MSD	20.80	0	20	104	78 - 124	RPD 14.70 (Max-30)	
Tetrachloroethene	127-18-4	MS	21.60	0	20	108	74 - 129		
Tetrachloroethene	127-18-4	MSD	19.90	0	20	99.4	74 - 129	RPD 8.06 (Max-30)	
Toluene	108-88-3	MS	23	0	20	115	80 - 121		
Toluene	108-88-3	MSD	20.70	0	20	104	80 - 121	RPD 10.50 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23.70	0	20	118	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	21.50	0	20	108	75 - 124	RPD 9.58 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.20	0	20	106	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19.70	0	20	98.5	73 - 127	RPD 7.23 (Max-30)	
Trichloroethene	79-01-6	MS	23.20	0.54	20	113	79 - 123		
Trichloroethene	79-01-6	MSD	21.20	0.54	20	103	79 - 123	RPD 8.94 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	22.50	0	20	113	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	20.30	0	20	102	65 - 141	RPD 10.30 (Max-30)	
Vinyl Chloride	75-01-4	MS	22.60	0	20	113	58 - 137		
Vinyl Chloride	75-01-4	MSD	20.10	0	20	101	58 - 137	RPD 11.70 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.70	30	106	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	31.20	30	104	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	30.90	30	103	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.80	30	95.8	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30.60	30	102	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	30.70	30	102	80 - 119	
Toluene-d8	2037-26-5	MS	30.20	30	101	89 - 112	
Toluene-d8	2037-26-5	MSD	30.20	30	101	89 - 112	

Method Blank 3845268 (MB) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U

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Project HS24060795
Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U

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Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.30	30	97.6	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	29.10	30	97	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.10	30	96.9	80 - 119	
Toluene-d8	2037-26-5	BLK	29.40	30	98.2	89 - 112	

Lab Control Standard 3845269 (LCS) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	23.30		20	116	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.80		20	109	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.90		20	115	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	22.40		20	112	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	19.90		20	99.7	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.20		20	106	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	21.30		20	106	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	23.40		20	117	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.30		20	107	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	25.20		20	126	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	23.50		20	118	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.60		20	103	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	22		20	110	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	23.10		20	116	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	21		20	105	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	22.10		20	110	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	23.50		20	118	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	22.80		20	114	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	22.60		20	113	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	22.70		20	113	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	23.20		20	116	60 - 139		

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Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	LCS	110		100	110	56 - 143		
2-Hexanone	591-78-6	LCS	102		100	102	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	67 - 130		
Acetone	67-64-1	LCS	121		100	121	39 - 160		
Benzene	71-43-2	LCS	21.70		20	108	79 - 120		
Bromobenzene	108-86-1	LCS	22.20		20	111	80 - 120		
Bromochloromethane	74-97-5	LCS	22.70		20	114	78 - 123		
Bromodichloromethane	75-27-4	LCS	22.10		20	111	79 - 125		
Bromoform	75-25-2	LCS	19.90		20	99.7	66 - 130		
Bromomethane	74-83-9	LCS	19.80		20	99	53 - 141		
Carbon Disulfide	75-15-0	LCS	21.60		20	108	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	19.10		20	95.4	72 - 136		
Chlorobenzene	108-90-7	LCS	23.10		20	115	82 - 118		
Chlorodibromomethane	124-48-1	LCS	20.30		20	101	74 - 126		
Chloroethane	75-00-3	LCS	20.60		20	103	60 - 138		
Chloroform	67-66-3	LCS	21.10		20	106	79 - 124		
Chloromethane	74-87-3	LCS	19.10		20	95.7	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	22.20		20	111	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.50		20	103	75 - 124		
Dibromomethane	74-95-3	LCS	21.60		20	108	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	18.30		20	91.6	32 - 152		
Ethylbenzene	100-41-4	LCS	22.40		20	112	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	24.20		20	121	66 - 134		
Isopropylbenzene	98-82-8	LCS	23.90		20	120	72 - 131		
Methylene Chloride	75-09-2	LCS	21.70		20	109	74 - 124		
mp-Xylene	108383/106423	LCS	46.30		40	116	80 - 121		
Naphthalene	91-20-3	LCS	21.60		20	108	61 - 128		
n-Butylbenzene	104-51-8	LCS	23.50		20	117	75 - 128		
n-Propylbenzene	103-65-1	LCS	22.60		20	113	76 - 126		
o-Chlorotoluene	95-49-8	LCS	23.10		20	116	79 - 122		
o-Xylene	95-47-6	LCS	23.40		20	117	78 - 122		
p-Chlorotoluene	106-43-4	LCS	23.10		20	116	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	23.20		20	116	77 - 127		
sec-Butylbenzene	135-98-8	LCS	23.30		20	116	77 - 126		
Styrene	100-42-5	LCS	22.20		20	111	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.50		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	21.50		20	107	74 - 129		
Toluene	108-88-3	LCS	22.20		20	111	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	21.70		20	109	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	21.20		20	106	73 - 127		
Trichloroethene	79-01-6	LCS	20.70		20	103	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	18.90		20	94.4	65 - 141		
Vinyl Chloride	75-01-4	LCS	20.60		20	103	58 - 137		

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Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.40	30	98.2	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.40	30	98.2	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29	30	96.8	80 - 119	
Toluene-d8	2037-26-5	LCS	30.10	30	100	89 - 112	

QC Batch

QC Batch	1235666	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366029002

Matrix Spike 3845610 (MS) 3366036002 (non-Project Sample) For QC Batch 1235666

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3845611 (MSD) 3366036002 (non-Project Sample) For QC Batch 1235666

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	20.60	0	20	103	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	19.60	0	20	98.2	78 - 124	RPD 4.86 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	23.70	0	20	118	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	22.10	0	20	111	74 - 131	RPD 6.85 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.50	0	20	118	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	22.90	0	20	114	71 - 121	RPD 2.92 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	22.40	0	20	112	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21	0	20	105	80 - 119	RPD 6.54 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	23	0	20	115	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	21.40	0	20	107	77 - 125	RPD 7.46 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	23.30	0	20	116	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	21.50	0	20	107	71 - 131	RPD 8.09 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.10	0	20	116	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.10	0	20	106	79 - 125	RPD 8.94 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	19.10	0	20	95.6	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	18.70	0	20	93.3	69 - 129	RPD 2.42 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.80	0	20	114	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	22.60	0	20	113	73 - 122	RPD 1.14 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	23.40	0	20	117	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.90	0	20	114	69 - 130	RPD 2.38 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.90	0	20	110	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	21.40	0	20	107	76 - 124	RPD 2.34 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19	0	20	95.2	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	17.70	0	20	88.6	62 - 128	RPD 7.16 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	20.20	0	20	101	77 - 121		

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VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dibromoethane	106-93-4	MSD	19.30	0	20	96.4	77 - 121	RPD 4.64 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	23.20	0	20	116	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	22.30	0	20	111	80 - 119	RPD 3.86 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	21.90	0	20	109	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	20.50	0	20	103	73 - 128	RPD 6.41 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	22.60	0	20	113	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.20	0	20	106	78 - 122	RPD 6.41 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	23.80	0	20	119	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	22.90	0	20	115	75 - 124	RPD 3.56 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	23.30	0	20	117	80 - 119		
1,3-Dichlorobenzene	541-73-1	MSD	22.50	0	20	112	80 - 119	RPD 3.69 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	22.80	0	20	114	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	22	0	20	110	80 - 119	RPD 3.92 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	23.10	0	20	116	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	22.20	0	20	111	79 - 118	RPD 3.96 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	21.60	0	20	108	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	19.70	0	20	98.6	60 - 139	RPD 9.35 (Max-30)	
2-Butanone	78-93-3	MS	102	0	100	102	56 - 143		
2-Butanone	78-93-3	MSD	97.40	0	100	97.4	56 - 143	RPD 4.92 (Max-30)	
2-Hexanone	591-78-6	MS	103	0	100	103	57 - 139		
2-Hexanone	591-78-6	MSD	98.80	0	100	98.8	57 - 139	RPD 4.62 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	106	0	100	106	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	102	0	100	102	67 - 130	RPD 4.01 (Max-30)	
Acetone	67-64-1	MS	97.10	0	100	97.1	39 - 160		
Acetone	67-64-1	MSD	93	0	100	93	39 - 160	RPD 4.28 (Max-30)	
Benzene	71-43-2	MS	21.80	0	20	109	79 - 120		
Benzene	71-43-2	MSD	20.50	0	20	102	79 - 120	RPD 6.31 (Max-30)	
Bromobenzene	108-86-1	MS	23.20	0	20	116	80 - 120		
Bromobenzene	108-86-1	MSD	22.70	0	20	113	80 - 120	RPD 2.17 (Max-30)	
Bromochloromethane	74-97-5	MS	22.10	0	20	110	78 - 123		
Bromochloromethane	74-97-5	MSD	21.80	0	20	109	78 - 123	RPD 1.46 (Max-30)	
Bromodichloromethane	75-27-4	MS	20.70	0	20	103	79 - 125		
Bromodichloromethane	75-27-4	MSD	18.90	0	20	94.6	79 - 125	RPD 8.78 (Max-30)	
Bromoform	75-25-2	MS	18.40	0	20	91.9	66 - 130		
Bromoform	75-25-2	MSD	17.90	0	20	89.6	66 - 130	RPD 2.55 (Max-30)	
Bromomethane	74-83-9	MS	21.60	0	20	108	53 - 141		
Bromomethane	74-83-9	MSD	19.70	0	20	98.7	53 - 141	RPD 8.99 (Max-30)	
Carbon Disulfide	75-15-0	MS	20.80	0	20	104	64 - 133		
Carbon Disulfide	75-15-0	MSD	19.50	0	20	97.4	64 - 133	RPD 6.49 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	19.80	0	20	98.9	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	18.30	0	20	91.3	72 - 136	RPD 8.04 (Max-30)	
Chlorobenzene	108-90-7	MS	22.50	0	20	113	82 - 118		
Chlorobenzene	108-90-7	MSD	21.30	0	20	107	82 - 118	RPD 5.40 (Max-30)	
Chlorodibromomethane	124-48-1	MS	18.90	0	20	94.7	74 - 126		
Chlorodibromomethane	124-48-1	MSD	18.20	0	20	90.8	74 - 126	RPD 4.18 (Max-30)	
Chloroethane	75-00-3	MS	21.90	0	20	110	60 - 138		
Chloroethane	75-00-3	MSD	19.90	0	20	99.3	60 - 138	RPD 9.94 (Max-30)	
Chloroform	67-66-3	MS	22.20	0	20	111	79 - 124		
Chloroform	67-66-3	MSD	21.10	0	20	105	79 - 124	RPD 5.16 (Max-30)	

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloromethane	74-87-3	MS	21.70	0	20	108	50 - 139		
Chloromethane	74-87-3	MSD	19.50	0	20	97.4	50 - 139	RPD 10.70 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	23.10	0	20	115	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	21.30	0	20	107	78 - 123	RPD 7.94 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.70	0	20	98.7	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	18.80	0	20	94.2	75 - 124	RPD 4.66 (Max-30)	
Dibromomethane	74-95-3	MS	22.20	0	20	111	79 - 123		
Dibromomethane	74-95-3	MSD	20.40	0	20	102	79 - 123	RPD 8.58 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	20.70	0	20	103	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	18.80	0	20	94.1	32 - 152	RPD 9.25 (Max-30)	
Ethylbenzene	100-41-4	MS	21.40	0	20	107	79 - 121		
Ethylbenzene	100-41-4	MSD	20.10	0	20	101	79 - 121	RPD 6.16 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	20.80	0	20	104	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.80	0	20	104	66 - 134	RPD 0.28 (Max-30)	
Isopropylbenzene	98-82-8	MS	25.40	0	20	127	72 - 131		
Isopropylbenzene	98-82-8	MSD	24.40	0	20	122	72 - 131	RPD 3.98 (Max-30)	
Methylene Chloride	75-09-2	MS	21.80	0	20	109	74 - 124		
Methylene Chloride	75-09-2	MSD	20.40	0	20	102	74 - 124	RPD 6.73 (Max-30)	
mp-Xylene	108383/106423	MS	42.40	0	40	106	80 - 121		
mp-Xylene	108383/106423	MSD	40.40	0	40	101	80 - 121	RPD 4.71 (Max-30)	
Naphthalene	91-20-3	MS	19.30	0	20	96.7	61 - 128		
Naphthalene	91-20-3	MSD	19	0	20	95.2	61 - 128	RPD 1.61 (Max-30)	
n-Butylbenzene	104-51-8	MS	22.80	0	20	114	75 - 128		
n-Butylbenzene	104-51-8	MSD	22.90	0	20	114	75 - 128	RPD 0.48 (Max-30)	
n-Propylbenzene	103-65-1	MS	24	0	20	120	76 - 126		
n-Propylbenzene	103-65-1	MSD	23.10	0	20	116	76 - 126	RPD 3.62 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.90	0	20	120	79 - 122		
o-Chlorotoluene	95-49-8	MSD	23.30	0	20	117	79 - 122	RPD 2.52 (Max-30)	
o-Xylene	95-47-6	MS	21.20	0	20	106	78 - 122		
o-Xylene	95-47-6	MSD	19.90	0	20	99.6	78 - 122	RPD 6.39 (Max-30)	
p-Chlorotoluene	106-43-4	MS	24	0	20	120	78 - 122		
p-Chlorotoluene	106-43-4	MSD	23.30	0	20	117	78 - 122	RPD 2.72 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	24.30	0	20	122	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	23	0	20	115	77 - 127	RPD 5.42 (Max-30)	
sec-Butylbenzene	135-98-8	MS	25.20	0	20	126	77 - 126		
sec-Butylbenzene	135-98-8	MSD	24.30	0	20	122	77 - 126	RPD 3.43 (Max-30)	
Styrene	100-42-5	MS	21.90	0	20	109	78 - 123		
Styrene	100-42-5	MSD	21	0	20	105	78 - 123	RPD 4.26 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24.80	0	20	124	78 - 124		
tert-Butylbenzene	98-06-6	MSD	23.90	0	20	120	78 - 124	RPD 3.71 (Max-30)	
Tetrachloroethene	127-18-4	MS	21.10	0	20	106	74 - 129		
Tetrachloroethene	127-18-4	MSD	20.30	0	20	102	74 - 129	RPD 3.88 (Max-30)	
Toluene	108-88-3	MS	21.40	0	20	107	80 - 121		
Toluene	108-88-3	MSD	20.30	0	20	101	80 - 121	RPD 5.38 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23	0	20	115	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	21.10	0	20	106	75 - 124	RPD 8.76 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	20	0	20	99.9	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19	0	20	95.1	73 - 127	RPD 4.91 (Max-30)	

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Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Trichloroethene	79-01-6	MS	22.40	0.93	20	107	79 - 123		
Trichloroethene	79-01-6	MSD	20.90	0.93	20	99.8	79 - 123	RPD 6.78 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	21.70	0	20	109	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	19.60	0	20	98.2	65 - 141	RPD 10 (Max-30)	
Vinyl Chloride	75-01-4	MS	21.50	0	20	108	58 - 137		
Vinyl Chloride	75-01-4	MSD	19.50	0	20	97.3	58 - 137	RPD 10.20 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32.40	30	108	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	32.60	30	109	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	30	30	100	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	31	30	103	85 - 114	
Dibromofluoromethane	1868-53-7	MS	29.10	30	97.1	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	30.80	30	103	80 - 119	
Toluene-d8	2037-26-5	MS	30.20	30	101	89 - 112	
Toluene-d8	2037-26-5	MSD	31	30	103	89 - 112	

Method Blank 3845608 (MB) Created on 06/27/2024 20:24 For QC Batch 1235666

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U

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Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.90	30	99.7	81 - 118	

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Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4-Bromofluorobenzene	460-00-4	BLK	29.70	30	99.1	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.60	30	91.9	80 - 119	
Toluene-d8	2037-26-5	BLK	30.20	30	101	89 - 112	

Lab Control Standard 3845609 (LCS) Created on 06/27/2024 20:24 For QC Batch 1235666

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.20		20	96	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	20.20		20	101	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.50		20	113	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	21.20		20	106	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	19.70		20	98.7	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	19.40		20	97	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	19.10		20	95.6	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.30		20	96.5	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.90		20	110	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.80		20	119	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	20		20	100	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.90		20	94.7	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19.10		20	95.7	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	22		20	110	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	20		20	99.9	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	20.20		20	101	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.20		20	106	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	21.60		20	108	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	21.50		20	108	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	21.50		20	107	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21		20	105	60 - 139		
2-Butanone	78-93-3	LCS	105		100	105	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	102		100	102	67 - 130		
Acetone	67-64-1	LCS	112		100	112	39 - 160		
Benzene	71-43-2	LCS	19.20		20	96	79 - 120		
Bromobenzene	108-86-1	LCS	21.60		20	108	80 - 120		
Bromochloromethane	74-97-5	LCS	21.10		20	105	78 - 123		
Bromodichloromethane	75-27-4	LCS	18.90		20	94.4	79 - 125		
Bromoform	75-25-2	LCS	17.90		20	89.6	66 - 130		
Bromomethane	74-83-9	LCS	16.20		20	81.2	53 - 141		
Carbon Disulfide	75-15-0	LCS	19		20	94.9	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.40		20	87	72 - 136		
Chlorobenzene	108-90-7	LCS	20.40		20	102	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.50		20	92.6	74 - 126		
Chloroethane	75-00-3	LCS	18		20	90	60 - 138		
Chloroform	67-66-3	LCS	20.10		20	101	79 - 124		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloromethane	74-87-3	LCS	17.30		20	86.3	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	20.40		20	102	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.80		20	94.1	75 - 124		
Dibromomethane	74-95-3	LCS	20.60		20	103	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	16.20		20	81	32 - 152		
Ethylbenzene	100-41-4	LCS	19.20		20	96	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	20.20		20	101	66 - 134		
Isopropylbenzene	98-82-8	LCS	22.40		20	112	72 - 131		
Methylene Chloride	75-09-2	LCS	19.80		20	99	74 - 124		
mp-Xylene	108383/106423	LCS	37.60		40	93.9	80 - 121		
Naphthalene	91-20-3	LCS	20		20	99.9	61 - 128		
n-Butylbenzene	104-51-8	LCS	21.10		20	105	75 - 128		
n-Propylbenzene	103-65-1	LCS	21.20		20	106	76 - 126		
o-Chlorotoluene	95-49-8	LCS	21.70		20	109	79 - 122		
o-Xylene	95-47-6	LCS	19.10		20	95.6	78 - 122		
p-Chlorotoluene	106-43-4	LCS	22.10		20	110	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	21.50		20	107	77 - 127		
sec-Butylbenzene	135-98-8	LCS	21.90		20	109	77 - 126		
Styrene	100-42-5	LCS	19.90		20	99.4	78 - 123		
tert-Butylbenzene	98-06-6	LCS	21.70		20	109	78 - 124		
Tetrachloroethene	127-18-4	LCS	19.60		20	97.9	74 - 129		
Toluene	108-88-3	LCS	19.20		20	95.8	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	20		20	100	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.40		20	97.2	73 - 127		
Trichloroethene	79-01-6	LCS	19.10		20	95.4	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	17		20	84.9	65 - 141		
Vinyl Chloride	75-01-4	LCS	16.70		20	83.6	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.60	30	102	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	30.60	30	102	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.80	30	99.4	80 - 119	
Toluene-d8	2037-26-5	LCS	30.90	30	103	89 - 112	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3366029001	HS24060795-02	N/A	N/A	N/A		SW846 8260D	1234508
3366029002	HS24060795-03	N/A	N/A	N/A		SW846 8260D	1235666
		N/A	N/A	N/A		SW846 8260D	1234508
3366029003	HS24060795-04	N/A	N/A	N/A		SW846 8260D	1235282
		N/A	N/A	N/A		SW846 8260D	1234508
3366029004	HS24060795-05	N/A	N/A	N/A		SW846 8260D	1234508
3366029005	HS24060795-06	N/A	N/A	N/A		SW846 8260D	1235282
		N/A	N/A	N/A		SW846 8260D	1234508
3366029006	HS24060795-07	N/A	N/A	N/A		SW846 8260D	1235282
		N/A	N/A	N/A		SW846 8260D	1234508
3366029007	HS24060795-08	N/A	N/A	N/A		SW846 8260D	1235282
3366029008	HS24060795-09	N/A	N/A	N/A		SW846 8260D	1235282
3366029009	HS24060795-10	N/A	N/A	N/A		SW846 8260D	1234508

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Subcontract Chain of Custody

SAMPLING STATE: **Texas**

COC ID: **26141**

3366029
Logged By: MJE
PM: SSL

SUBCONTRACT TO:

ALS
301 Fulling Mill Road
Middletown, PA 17057

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CUSTOMER INFORMATION:

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INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060795
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060795-02**	**18CPTMW06_06224**	**Water**	**12 Jun 2024 07:45**
	Custom selection	1-G|HCL MJE 6/26/24		27 Jun 2024
2.	**HS24060795-03**	**MW22_061224**	**Water**	**12 Jun 2024 08:30**
	Custom selection			27 Jun 2024
3.	**HS24060795-04**	**MW22_06224_a** 2-G|HCL	**Water**	**12 Jun 2024 08:30**
	Custom selection			27 Jun 2024
4.	**HS24060795-05**	**MW6_06224**	**Water**	**12 Jun 2024 09:20**
	Custom selection			27 Jun 2024
5.	**HS24060795-06**	**109_06224**	**Water**	**12 Jun 2024 10:15**
	Custom selection			27 Jun 2024
6.	**HS24060795-07**	**MW21_06224**	**Water**	**12 Jun 2024 11:00**
	Custom selection			27 Jun 2024
7.	**HS24060795-08**	**18CPTMW22SW_06224**	**Water**	**12 Jun 2024 11:45**
	Custom selection			27 Jun 2024
8.	**HS24060795-09**	**MW20_06224**	**Water**	**12 Jun 2024 12:00**
	Custom selection			27 Jun 2024
9.	**HS24060795-10**	**Trip Blank**	**Water**	**12 Jun 2024 00:00**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26141**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
Custom selection			27 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Temp By: MJE | WO Temp (°C): 1° | Therm ID: 570

	MIE
Receipt Info Completed By:	
Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N NA
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	N
CR6 Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N NA
NJ≤ 4 Days?	Y N
Rad Screen (uCi)	
Courier/Tracking #:	

7388792341761

SDWA Compliance	Y N
PWSID	
WV Containers 0-6°C	Y N NA

*Fed No sampler. 6|26|24

pm notified via TM

Relinquished By:	F	Date/Time:	
Received By:	Fedex	Date/Time:	
Cooler ID(s):	Fedex	Temperature(s):	6|26|24 936

6|26|24 936

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6/28/2024 4:20 PM

HS24060795-MSSEMI-SW8270SIM

ALS WO# HS24060795

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060795

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060795

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470172

AWD1_061224

Matrix	Analysis Date	Conc Units	Dilution
Water	06/29/24 14:23	%REC	10

Lab Sample ID HS24060795-01

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	06.D	0.093	0.08	116		40-140
4-Terphenyl-d14	06.D	0.082	0.08	103		40-140
Nitrobenzene-d5	06.D	0.095	0.08	119		40-140

18CPTMW06_06224

Matrix	Analysis Date	Conc Units	Dilution
Water	06/21/24 17:16	%REC	1

Lab Sample ID HS24060795-02

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	18.D	0.065	0.08	80.9		40-140
4-Terphenyl-d14	18.D	0.047	0.08	58.2		40-140
Nitrobenzene-d5	18.D	0.066	0.08	82.7		40-140

109_06224

Matrix	Analysis Date	Conc Units	Dilution
Water	06/21/24 17:33	%REC	1

Lab Sample ID HS24060795-06

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	19.D	0.061	0.08	76.7		40-140
4-Terphenyl-d14	19.D	0.059	0.08	73.5		40-140
Nitrobenzene-d5	19.D	0.056	0.08	70.5		40-140

MW21_06224

Matrix	Analysis Date	Conc Units	Dilution
Water	06/21/24 17:51	%REC	1

Lab Sample ID HS24060795-07

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	20.D	0.086	0.08	108		40-140
4-Terphenyl-d14	20.D	0.068	0.08	85.4		40-140
Nitrobenzene-d5	20.D	0.077	0.08	96.6		40-140

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060795

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470172

18CPTMW22SW_06224

Matrix	Analysis Date	Conc Units	Dilution
Water	06/21/24 18:08	%REC	1

Lab Sample ID HS24060795-08

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	21.D	0.094	0.08	117		40-140
4-Terphenyl-d14	21.D	0.046	0.08	57.0		40-140
Nitrobenzene-d5	21.D	0.081	0.08	102		40-140

LCS1-213652

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/21/24 15:21	%REC	1

Lab Sample ID LCS1-213652

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	12.D	0.07364	0.08	92.1		40-140
4-Terphenyl-d14	12.D	0.0688	0.08	86.0		40-140
Nitrobenzene-d5	12.D	0.0665	0.08	83.1		40-140

LCSD1-213652

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/21/24 15:39	%REC	1

Lab Sample ID LCSD1-213652

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	13.D	0.07494	0.08	93.7		40-140
4-Terphenyl-d14	13.D	0.07913	0.08	98.9		40-140
Nitrobenzene-d5	13.D	0.06969	0.08	87.1		40-140

MBLK-213652

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/21/24 15:04	%REC	1

Lab Sample ID MBLK-213652

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	11.D	0.06401	0.08	80.0		40-140
4-Terphenyl-d14	11.D	0.07103	0.08	88.8		40-140
Nitrobenzene-d5	11.D	0.06382	0.08	79.8		40-140

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Form 3B

Laboratory Control Sample Recovery

EPA 3510

Workorder

HS24060795

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060795

EPA 3510

SAMPLENUM LCS1-213652

SV-6_470172				LCS1-213652		LCSD1-213652		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	06/21/24	Run Date	06/21/24	
Prep Date	06/17/24	Analysis Batch	213652	Run Time	15:21	Run Time	15:39	
Prep Method	SW3510	Prep Batch	213652	Prep Amt	1000 mL	Prep Amt	1000 mL	

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane	40-140	0.08	0.07522	94		0.0887	111		20	16.5	

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Form 4

Method Blank Summary

EPA 3510

Workorder

HS24060795

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060795

EPA 3510

METHOD BLANK	Prep Date	Prep Batch	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-213652	06/17/24	213652	Aqueous	06/21/24 15:04	213652	SV6

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS1-213652	LCS1-213652	LCS	06/21/24 15:21	213652	SV6	12.D
LCSD1-213652	LCSD1-213652	LCSD	06/21/24 15:39	213652	SV6	13.D
18CPTMW06_06224	HS24060795-02	SAMP	06/21/24 17:16	213652	SV6	18.D
109_06224	HS24060795-06	SAMP	06/21/24 17:33	213652	SV6	19.D
MW21_06224	HS24060795-07	SAMP	06/21/24 17:51	213652	SV6	20.D
18CPTMW22SW_06224	HS24060795-08	SAMP	06/21/24 18:08	213652	SV6	21.D
AWD1_061224	HS24060795-01	SAMP	06/29/24 14:23	213652	SV6	06.D

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Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060795

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA80227

Lab File ID: 01 BFB Injection Date: 04/18/24

Instrument ID: SV6 BFB Injection Time: 1039

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.6
68	Less than 2.0% of mass 69	0.5 (1.8)1
69	Mass 69 relative abundance	28.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.4
365	1.0 - 100.0% of mass 198	4.0
441	Present, but less than mass 443	20.5
442	50.0 - 150.0% of mass 198	139.9
443	15.0 - 24.0% of mass 442	27.6 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SLSTD-2.5	SLSTD-2.5	02	04/18/24	1051
02	14DX-0.08	14DX-0.08	03A	04/18/24	1224
03		14DX-0.01	04	04/18/24	1249
04		14DX-0.03	05	04/18/24	1307
05		14DX-0.05	06	04/18/24	1325
06		14DX-0.10	07	04/18/24	1342
07		14DX-0.15	08	04/18/24	1400
08		14DX-0.20	09	04/18/24	1418
09		14DX-0.50	10	04/18/24	1435
10	14DX ICV-0.08	14DX ICV-0.08	11	04/18/24	1453
11					
12					
13					
14					
15					
16					
17					
18					

FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID: 01 BFB Injection Date: 06/21/24

Instrument ID: SV6 BFB Injection Time: 1048

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	27.3
68	Less than 2.0% of mass 69	0.5 (1.5)1
69	Mass 69 relative abundance	31.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	10.0 - 80.0% of mass 198	40.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.1
365	1.0 - 100.0% of mass 198	3.1
441	Present, but less than mass 443	14.2
442	50.0 - 150.0% of mass 198	100.0
443	15.0 - 24.0% of mass 442	20.9 (20.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	14DX-0.08	14DX-0.08	04	06/21/24	1236
02	MBLK-213652	MBLK-213652	11	06/21/24	1504
03	LCS1-213652	LCS1-213652	12	06/21/24	1521
04	LCSD1-213652	LCSD1-213652	13	06/21/24	1539
05	HS24060795-2	HS24060795-02	18	06/21/24	1716
06	HS24060795-6	HS24060795-06	19	06/21/24	1733
07	HS24060795-7	HS24060795-07	20	06/21/24	1751
08	HS24060795-8	HS24060795-08	21	06/21/24	1808
09	14DX-0.08	14DX-0.08	28	06/21/24	2010
10					
11					
12					
13					
14					
15					
16					
17					
18					

FORM V SV .

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID: 03 BFB Injection Date: 06/29/24

Instrument ID: SV6 BFB Injection Time: 1231

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.9
68	Less than 2.0% of mass 69	0.6 (1.7)1
69	Mass 69 relative abundance	35.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	10.0 - 80.0% of mass 198	43.0
197	Less than 2.0% of mass 198	1.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.8
275	10.0 - 60.0% of mass 198	25.4
365	1.0 - 100.0% of mass 198	3.0
441	Present, but less than mass 443	12.6
442	50.0 - 150.0% of mass 198	95.0
443	15.0 - 24.0% of mass 442	18.2 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	14DX-0.08	14DX-0.08	05A	06/29/24	1358
02	HS24060795-1	HS24060795-01	06	06/29/24	1423
03	14DX-0.08	14DX-0.08	23	06/29/24	1919
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-2022 10:25
End Cal Date : 18-APR-2024 14:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Last Edit : 06-Jun-2024 11:07 SV6.i
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Compound	0.01000 Level 1 / 0.20000 Level 7	0.03000 Level 2 / 0.50000 Level 8	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	___ RRF	% RSD
1 1,4-Dioxane	0.26786 / 0.21892	0.20193 / 0.19957	0.21510	0.19340	0.20406	0.21271	0.21419	10.884
$ 9 2-Fluorophenol	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####
$ 13 Phenol-d6	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####

$ 33 Nitrobenzene-d5	0.25417	0.27709	0.33446	0.25539	0.31770	0.31230		
	0.32399	0.32657					0.30021	10.938
$ 69 2-Fluorobiphenyl	1.58567	1.48291	1.52552	1.25243	1.62605	1.59900		
	1.54935	1.60832					1.52866	7.930
$ 105 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
$ 158 4-Terphenyl-d14	2.22448	1.99483	2.00359	1.46918	2.10278	2.04892		
	2.19122	2.26244					2.03718	12.300

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060795

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060795

RunID 11.D

Semi-Volatiles by Semivolatiles SIM

Sample Matrix LIQUID
Lab Smp Id 14DX ICV-0.08
Data Type MS DATA
File ID 11.D

Fraction SV
Client Smp ID 14DX ICV-0.08
SampleType METHSPIKE
Inj Date 18-APR-2024 1453

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.080	0.076	94.6	40-140	
Nitrobenzene-d5	0.080	0.073	91.4	40-140	
2-Fluorobiphenyl	0.080	0.070	88.0	40-140	
4-Terphenyl-d14	0.080	0.071	88.2	40-140	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060795

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

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Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060795

RunID 04.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 04.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 21-JUN-2024 1236
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.302	0.010	0.582	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.36	0.010	-11.354	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.72	0.010	-15.343	20.0	Averaged	
1,4-Dioxane	0.214	0.209	0.010	-2.451	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060795

RunID 05A.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 05A.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 29-JUN-2024 1358
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.261	0.010	-12.979	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.34	0.010	-12.276	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.63	0.010	-19.957	20.0	Averaged	
1,4-Dioxane	0.214	0.180	0.010	-15.962	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060795

RunID 23.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 23.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 29-JUN-2024 1919
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.247	0.010	-17.572	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.39	0.010	-9.071	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.18	0.010	-42.007	20.0	Averaged	*
1,4-Dioxane	0.214	0.180	0.010	-15.915	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060795

RunID 28.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 28.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 21-JUN-2024 2010
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.265	0.010	-11.640	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.43	0.010	-6.735	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.64	0.010	-19.633	20.0	Averaged	
1,4-Dioxane	0.214	0.203	0.010	-5.070	20.0	Averaged	

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/21/24

Instrument ID: SV6 Time Analyzed: 1236

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	1705	2.11	5452	3.10	3616	4.70
	UPPER LIMIT	3410	2.61	10904	3.60	7232	5.20
	LOWER LIMIT	853	1.61	2726	2.60	1808	4.20
	CLIENT SAMPLE NO.						
01	MBLK-213652	2291	2.11	4515	3.10	2790	4.70
02	LCS1-213652	2613	2.12	5570	3.10	3363	4.70
03	LCSD1-213652	2300	2.11	4598	3.10	2809	4.70
04	HS24060795-2	3071	2.12	7019	3.11	4339	4.70
05	HS24060795-6	2841	2.12	6334	3.11	3926	4.70
06	HS24060795-7	2367	2.12	5596	3.11	3411	4.70
07	HS24060795-8	2438	2.11	4929	3.10	3054	4.70
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/21/24

Instrument ID: SV6 Time Analyzed: 1236

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	6866	6.10	6155	8.64	5812	10.24
	UPPER LIMIT	13732	6.60	12310	9.14	11624	10.74
	LOWER LIMIT	3433	5.60	3078	8.14	2906	9.74
	CLIENT SAMPLE NO.						
01	MBLK-213652	5050	6.10	4649	8.64	4760	10.24
02	LCS1-213652	6471	6.10	5854	8.64	5878	10.24
03	LCSD1-213652	5391	6.10	4781	8.64	4656	10.24
04	HS24060795-2	8489	6.10	8106	8.64	8442	10.24
05	HS24060795-6	7678	6.10	7131	8.64	7226	10.24
06	HS24060795-7	6867	6.10	6304	8.64	6476	10.24
07	HS24060795-8	6148	6.10	5861	8.64	5764	10.24
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 05A Date Analyzed: 06/29/24

Instrument ID: SV6 Time Analyzed: 1358

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS1(DCB) AREA #	IS1(DCB) RT #	IS2(NPT) AREA #	IS2(NPT) RT #	IS3(ANT) AREA #	IS3(ANT) RT #
	12 HOUR STD	1993	1.93	7115	2.88	4286	4.46
	UPPER LIMIT	3986	2.43	14230	3.38	8572	4.96
	LOWER LIMIT	997	1.43	3558	2.38	2143	3.96
	CLIENT SAMPLE NO.						
01	HS24060795-1	3372	1.92	8356	2.88	5549	4.46
02							
03							
04							
05							
06							
07							
08							
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16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 05A Date Analyzed: 06/29/24

Instrument ID: SV6 Time Analyzed: 1358

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	8105	5.85	6578	8.36	6794	9.86
	UPPER LIMIT	16210	6.35	13156	8.86	13588	10.36
	LOWER LIMIT	4053	5.35	3289	7.86	3397	9.36
	CLIENT SAMPLE NO.						
01	HS24060795-1	9708	5.85	9466	8.36	9547	9.86
02							
03							
04							
05							
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17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

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Form 12

Preparation Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060795

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Prep Batch Report

Batch ID:	213652	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	17 Jun 2024 07:00 AM	**Original Factor:**	0.001
End Date:	17 Jun 2024 11:30 AM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060638-02	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060638-03	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060779-02	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060795-01	A	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060795-02	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060795-06	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060795-07	D	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060795-08	D	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-02	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-03	D	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-04	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-05	D	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-06	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-07	D	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060984-01	A	Water	5	1000	1	0.001	1	phadj1/13clno
LCS-213652	A		5	1000	1	0.001	1	phadj1/13clno
LCS1-213652	A		5	1000	1	0.001	1	phadj1/13clno
LCSD-213652	A		5	1000	1	0.001	1	phadj1/13clno
LCSD1-213652	A		5	1000	1	0.001	1	phadj1/13clno
MBLK-213652	A		5	1000	1	0.001	1	phadj1/13clno

Prep Batch Report

Batch ID:	213652	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	17 Jun 2024 07:00 AM	**Original Factor:**	0.001
End Date:	17 Jun 2024 11:30 AM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Stage	Description	Value
3510/3511	Chlorine Strips ID:	3001070211-06
3510_B	pH Paper:	300107092-11
3510_B	Methylene Chloride ID:	300107098-18
3510_B	50% NaoH ID:	300107078-21
3510_B	NaoH Volume (mL):	8
3510_B	50:50 Sulfuric Acid ID:	300107095-06
3510_B	Sulfuric Acid Volume (mL):	8ml
3510_B	Syringe ID:	3510-bsim
3510_B	LCS/MS Spike ID:	3231538-11
3510_B	LCS/MS Volume (mL):	1ml
3510_B	LCS/MS Spike #2 ID (If needed):	3231510-05
3510_B	LCS/MS Spike #2 Volume (mL):	1
3510_B	LCS/MS Spike #3 ID (If needed):	na
3510_B	LCS/MS Spike #3 Volume (mL):	na
3510_B	Sodium Sulfate ID:	3142131-21
3510_B	Glass Wool ID:	300107067-15
3510_B	TurboVap Unit(s):	j (1-6) n (7-13)d(14-20)l ()
3510_B	TurboVap Temp (C):	39-40
3510_B	TurboVap Pressure (PSI):	9-11
3510_B	Time in TurboVap (Hrs):	1.5 hr
3510_B	Vial Lot:	300107091-08
3510_B	CleanUp Performed:	na
3510_B	Surrogate ID:	320077506
3510_B	Surrogate Volume (mL):	1ml

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Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060795

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

SV06 -Logbook

Batch: 60464 **Analyst:** Marco Gutierrez

Date: 06-21-2024 **Reviewer:**

Method: R8270D SIM/14DX **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	06-21-2024 10:48 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	06-21-2024 11:00 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	PAHSIM-0.08	CCV	06-21-2024 12:16 pm	1.00	1000.00 mL	1000.00 mL	03.D	Liquid	Y	NA
4	14DX-0.08	CCV	06-21-2024 12:36 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	SIM CCB	SAMP	06-21-2024 01:06 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	MBLK-213834	MBLK	06-21-2024 01:23 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	LCS-213834	LCS	06-21-2024 01:43 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	LCSD-213834	LCSD	06-21-2024 02:03 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	HS24061001-02	SAMP	06-21-2024 02:24 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	HS24061001-03	SAMP	06-21-2024 02:44 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	MBLK-213652	SAMP	06-21-2024 03:04 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	LCS1-213652	SAMP	06-21-2024 03:21 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	LCSD1-213652	SAMP	06-21-2024 03:39 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	MBLK-213834	MBLK	06-21-2024 04:00 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCS-213834	LCS	06-21-2024 04:20 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24060487-09X10	SAMP	06-21-2024 04:41 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS24060795-01	SAMP	06-21-2024 04:58 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS24060795-02	SAMP	06-21-2024 05:16 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24060795-06	SAMP	06-21-2024 05:33 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24060795-07	SAMP	06-21-2024 05:51 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24060795-08	SAMP	06-21-2024 06:08 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24060899-02	SAMP	06-21-2024 06:26 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24060899-03	SAMP	06-21-2024 06:43 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24060899-04	SAMP	06-21-2024 07:01 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24060899-05	SAMP	06-21-2024 07:18 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS24060899-06	SAMP	06-21-2024 07:36 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	HS24060899-07	SAMP	06-21-2024 07:53 pm	1.00	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
28	14DX-0.08	SAMP	06-21-2024 08:10 pm	1.00	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
29	SIM CCB	SAMP	06-21-2024 08:28 pm	1.00	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
30	MBLK-213491	SAMP	06-21-2024 08:45 pm	1.00	1000.00 mL	1000.00 mL	30.D	Liquid	Y	NA
31	LCS-213491	SAMP	06-21-2024 09:03 pm	1.00	1000.00 mL	1000.00 mL	31.D	Liquid	Y	NA
32	LCSD-213491	SAMP	06-21-2024 09:20 pm	1.00	1000.00 mL	1000.00 mL	32.D	Liquid	Y	NA
33	HS24060766-01	SAMP	06-21-2024 09:38 pm	1.00	1000.00 mL	1000.00 mL	33.D	Liquid	Y	NA
34	HS24060766-02	SAMP	06-21-2024 09:55 pm	1.00	1000.00 mL	1000.00 mL	34.D	Liquid	Y	NA
35	HS24060766-03	SAMP	06-21-2024 10:13 pm	1.00	1000.00 mL	1000.00 mL	35.D	Liquid	Y	NA
36	HS24060766-04	SAMP	06-21-2024 10:30 pm	1.00	1000.00 mL	1000.00 mL	36.D	Liquid	Y	NA
37	HS24060766-05	SAMP	06-21-2024 10:48 pm	1.00	1000.00 mL	1000.00 mL	37.D	Liquid	Y	NA
38	HS24060619-07	SAMP	06-21-2024 11:05 pm	1.00	1000.00 mL	1000.00 mL	38.D	Liquid	Y	NA
39	HS24060619-08	SAMP	06-21-2024 11:23 pm	1.00	1000.00 mL	1000.00 mL	39.D	Liquid	Y	NA
40	HS24060619-09	SAMP	06-21-2024 11:40 pm	1.00	1000.00 mL	1000.00 mL	40.D	Liquid	Y	NA
41	HS24060619-10	SAMP	06-21-2024 11:57 pm	1.00	1000.00 mL	1000.00 mL	41.D	Liquid	Y	NA

SV06 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
42	HS24060619-11	SAMP	06-22-2024 12:15 am	1.00	1000.00 mL	1000.00 mL	42.D	Liquid	Y	NA
43	HS24060619-12	SAMP	06-22-2024 12:32 am	1.00	1000.00 mL	1000.00 mL	43.D	Liquid	Y	NA

SV06 -Logbook

Batch: 60588 **Analyst:** Marco Gutierrez

Date: 06-29-2024 **Reviewer:**

Method: R8270D 14DX/LVI **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	06-29-2024 11:59 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	06-29-2024 12:12 pm	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	DFTPP	TUNE	06-29-2024 12:31 pm	1.00	0.00 gm	0.00 mL	03.D		Y	NA
4	PAHLVI-0.025	CCV	06-29-2024 12:51 pm	1.00	33.00 mL	2000.00 mL	04.D	Liquid	Y	NA
5	14DX-0.08	CCV	06-29-2024 01:58 pm	1.00	1000.00 mL	1000.00 mL	05A.D	Liquid	Y	NA
6	HS24060795-01X10	SAMP	06-29-2024 02:23 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	HS24060899-02X10	SAMP	06-29-2024 02:40 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	MBLK-213834	SAMP	06-29-2024 02:58 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	LCS-213834	SAMP	06-29-2024 03:15 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	LCSD-213834	SAMP	06-29-2024 03:33 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	HS24060985-03	SAMP	06-29-2024 03:50 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	HS24060985-04	SAMP	06-29-2024 04:08 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	HS24060985-05	SAMP	06-29-2024 04:25 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	HS24060985-06	SAMP	06-29-2024 04:42 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	HS24060985-07	SAMP	06-29-2024 05:00 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24060985-08	SAMP	06-29-2024 05:17 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS24061218-01	SAMP	06-29-2024 05:35 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS24061218-02	SAMP	06-29-2024 05:52 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24061218-03	SAMP	06-29-2024 06:10 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24061218-04	SAMP	06-29-2024 06:27 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24061218-05	SAMP	06-29-2024 06:45 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24061218-06	SAMP	06-29-2024 07:02 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	14DX-0.08	SAMP	06-29-2024 07:19 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24060619-07	SAMP	06-29-2024 07:37 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24060619-08	SAMP	06-29-2024 07:54 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS24060619-09	SAMP	06-29-2024 08:12 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	HS24060619-10	SAMP	06-29-2024 08:29 pm	1.00	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
28	HS24060619-11	SAMP	06-29-2024 08:47 pm	1.00	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
29	HS24060619-12	SAMP	06-29-2024 09:04 pm	1.00	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
30	HS24061052-01	SAMP	06-29-2024 09:21 pm	1.00	1000.00 mL	1000.00 mL	30.D	Liquid	Y	NA
31	MBLK-214211	SAMP	06-29-2024 09:39 pm	1.00	33.00 mL	2000.00 mL	31.D	Liquid	Y	NA
32	LCS-214211	SAMP	06-29-2024 09:56 pm	1.00	33.00 mL	2000.00 mL	32.D	Liquid	Y	NA
33	LCSD-214211	SAMP	06-29-2024 10:14 pm	1.00	33.00 mL	2000.00 mL	33.D	Liquid	Y	NA
34	HS24061637-01	SAMP	06-29-2024 10:31 pm	1.00	33.00 mL	2000.00 mL	34.D	Liquid	Y	NA
35	HS24060967-01X1H	SAMP	06-29-2024 10:48 pm	1.00	33.00 mL	2000.00 mL	35.D	Liquid	Y	NA
36	HS24060967-01X10	SAMP	06-29-2024 11:06 pm	1.00	33.00 mL	2000.00 mL	36.D	Liquid	Y	NA
37	HS24061616-01	SAMP	06-29-2024 11:23 pm	1.00	33.00 mL	2000.00 mL	37.D	Liquid	Y	NA

SV06 -Logbook

Batch: 59721 **Analyst:** Marco Gutierrez

Date: 04-18-2024 **Reviewer:**

Method: R8270D 14dx ICAL **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	04-18-2024 10:39 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	04-18-2024 10:51 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	14DX-0.08	ICAL4	04-18-2024 12:24 pm	1.00	1000.00 mL	1000.00 mL	03A.D	Liquid	Y	NA
4	14DX-0.01	ICAL1	04-18-2024 12:49 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	14DX-0.03	ICAL2	04-18-2024 01:07 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	14DX-0.05	ICAL3	04-18-2024 01:25 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	14DX-0.10	ICAL5	04-18-2024 01:42 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	14DX-0.15	ICAL6	04-18-2024 02:00 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	14DX-0.20	ICAL7	04-18-2024 02:18 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	14DX-0.50	ICAL8	04-18-2024 02:35 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	14DX ICV-0.08	ICV	04-18-2024 02:53 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	SIM CCB	SAMP	04-18-2024 04:10 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	MBLK-210508	SAMP	04-18-2024 04:28 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCS-210508	SAMP	04-18-2024 04:45 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCSD-210508	SAMP	04-18-2024 05:03 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24040786-01	SAMP	04-18-2024 05:21 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	14DX-0.08	SAMP	04-18-2024 05:38 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	SIM CCB	SAMP	04-18-2024 05:56 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24040667-03	SAMP	04-18-2024 06:14 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24040816-04	SAMP	04-18-2024 06:31 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24040816-05	SAMP	04-18-2024 06:49 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24040816-06	SAMP	04-18-2024 07:06 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24041063-01	SAMP	04-18-2024 07:24 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24041063-02	SAMP	04-18-2024 07:41 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24041063-03	SAMP	04-18-2024 07:59 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\01.D Page 1
Report Date: 21-Jun-2024 11:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-JUN-2024 10:48
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240621.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.191	5.571	-1.380	198	81536			0.00- 100.00	99.95
4.191	6.357	-2.166	51	22288			10.00- 80.00	27.34
4.191	6.357	-2.166	68	381			0.00- 2.00	1.46
4.191	6.357	-2.166	69	26048			0.00- 0.00	31.95
4.191	6.357	-2.166	70	0	0.0	0.0	0.00- 2.00	0.00
4.191	6.357	-2.166	127	32744			10.00- 80.00	40.16
4.191	6.357	-2.166	197	0	0.0	0.0	0.00- 2.00	0.00
4.191	6.357	-2.166	199	5564			5.00- 9.00	6.82
4.191	6.357	-2.166	275	21264			10.00- 60.00	26.08
4.191	6.357	-2.166	365	2542			1.00- 100.00	3.12
4.191	6.357	-2.166	441	11605			0.01- 99.99	67.94
4.191	6.357	-2.166	442	81576			50.00- 150.00	100.05
4.191	6.357	-2.166	443	17080			15.00- 24.00	20.94

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
198	Base Peak, 100% relative abundance	0.00	*
51	10.00 - 80.00% of mass 198	0.00	*
68	Less than 2.00% of mass 69	0.00 (0.00)	
69	Mass 69 relative abundance	0.00	
70	Less than 2.00% of mass 69	0.00 (246.54)	*
127	10.00 - 80.00% of mass 198	0.00	*
197	Less than 2.00% of mass 198	0.00	
199	5.00 - 9.00% of mass 198	0.00	*
275	10.00 - 60.00% of mass 198	0.00	*
365	1.00 - 100.00% of mass 198	0.00	*
441	Present, but less than mass 443	0.00	*
442	50.00 - 150.00% of mass 198	0.00	*
443	15.00 - 24.00% of mass 442	0.00 (0.00)	*

Data File: 01.D
Spectrum: Avg. Scans 473-475 (5.12), Background Scan 465
Location of Maximum: 184.00
Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	54	73.00	226	107.00	175	150.00	482
37.00	158	74.00	1635	110.00	155	151.00	1072
38.00	834	75.00	2373	111.00	164	152.00	1414
39.00	2580	76.00	2208	112.00	161	153.00	1442
40.00	712	77.00	7141	113.00	1197	154.00	7851
41.00	1803	78.00	5019	114.00	1427	155.00	3627
42.00	626	79.00	390	115.00	5475	156.00	20584
43.00	146	80.00	513	116.00	2610	157.00	5077
49.00	47	82.00	356	117.00	8516	158.00	2492
50.00	1560	83.00	2209	118.00	1346	159.00	280
51.00	3351	84.00	764	119.00	528	164.00	682
52.00	3378	86.00	832	124.00	108	165.00	897
53.00	1216	87.00	1098	125.00	400	166.00	12152
54.00	1689	88.00	873	126.00	1723	167.00	16039
55.00	141	89.00	3767	127.00	5841	168.00	7453
56.00	63	90.00	2121	128.00	9209	169.00	3188
57.00	115	91.00	11472	129.00	3264	170.00	428
58.00	156	92.00	20504	130.00	10682	179.00	470
61.00	742	93.00	5617	131.00	1953	180.00	241
62.00	1775	94.00	387	132.00	710	181.00	5244
63.00	3864	98.00	413	137.00	304	182.00	12294
64.00	2287	99.00	655	138.00	559	183.00	41504
65.00	6689	100.00	553	139.00	7098	184.00	382592
66.00	1873	101.00	1788	140.00	4627	185.00	51584
67.00	964	102.00	2941	141.00	3292	186.00	3315
69.00	376	103.00	2707	142.00	1588	187.00	60
70.00	927	104.00	1651	143.00	3674	207.00	115
71.00	66	105.00	220	144.00	841		
72.00	178	106.00	1027	145.00	297		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D Page 1
Report Date: 21-Jun-2024 13:02

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 21-JUN-2024 12:36
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 21-Jun-2024 12:59 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.113	2.113	(1.000)	1705	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.103	3.103	(1.000)	5452	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.521	2.521	(0.813)	1317	0.08000	0.08046(M)
* 86 Acenaphthene-d10	164	4.698	4.698	(1.000)	3616	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.091	4.091	(0.871)	3920	0.08000	0.07092(M)
* 126 Phenanthrene-d10	188	6.098	6.098	(1.000)	6866	0.10000	(M)
* 182 Chrysene-d12	240	8.636	8.636	(1.000)	6155	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	8492	0.08000	0.06772(M)
* 198 Perylene-d12	264	10.244	10.244	(1.000)	5812	0.10000	(M)
1 1,4-Dioxane	58	0.853	0.853	(0.404)	285	0.08000	0.07804(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D

Date : 21-JUN-2024 12:36

Client ID: 14DX-0.08

Instrument: SV6.i

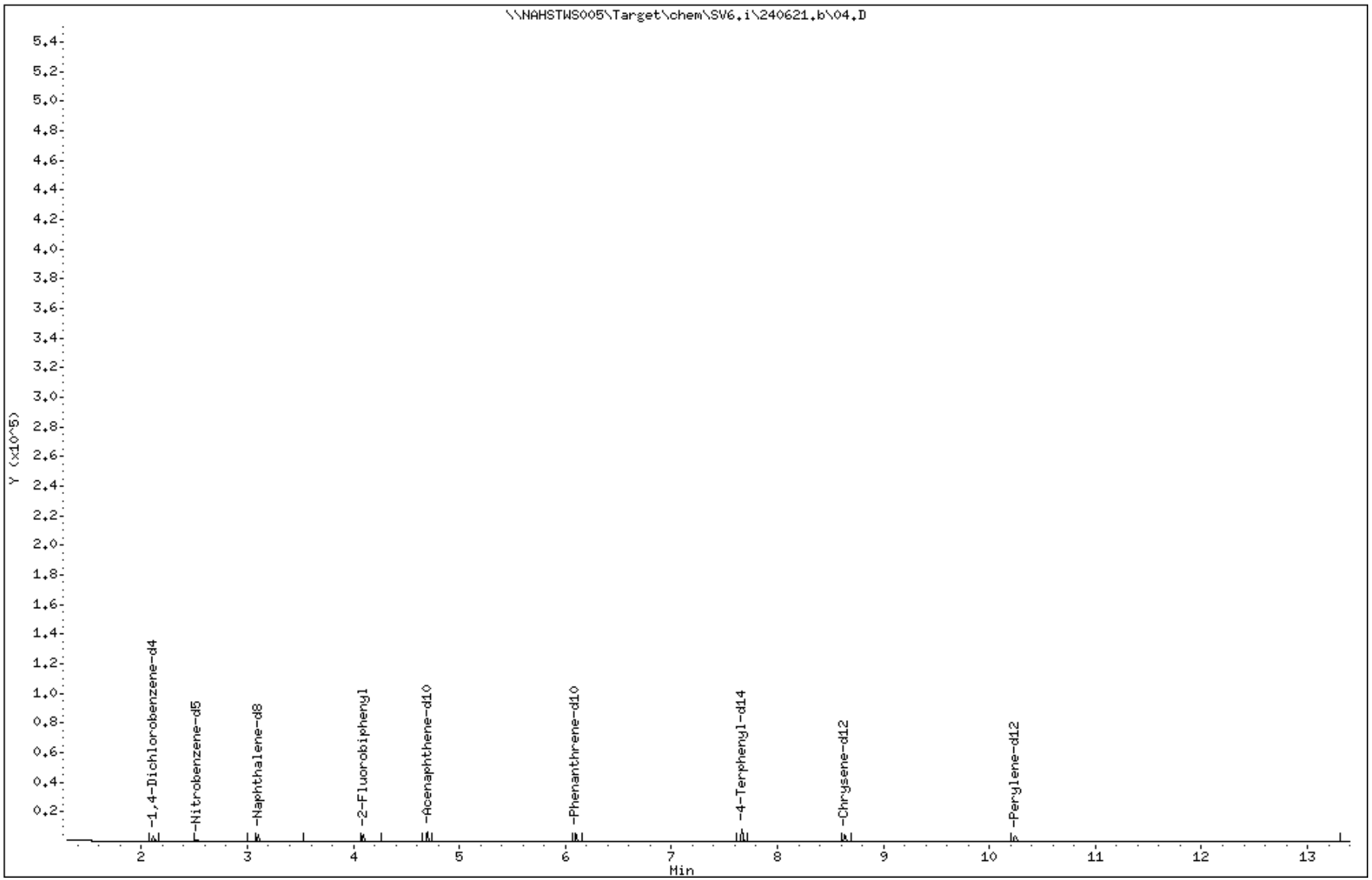
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



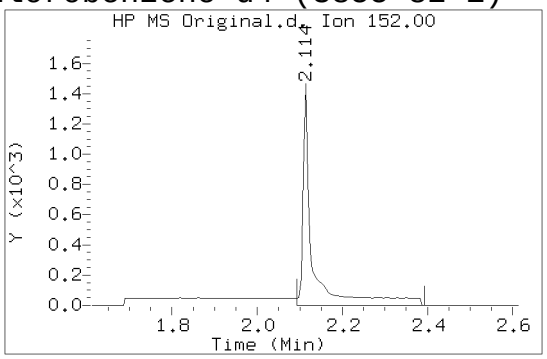
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D
Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

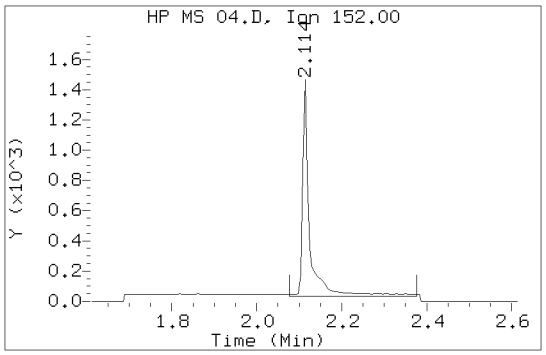
BEFORE

MASS
152
AREA
2281
HEIGHT
1466
21-Jun-2024
12:51
ALSHS
Server



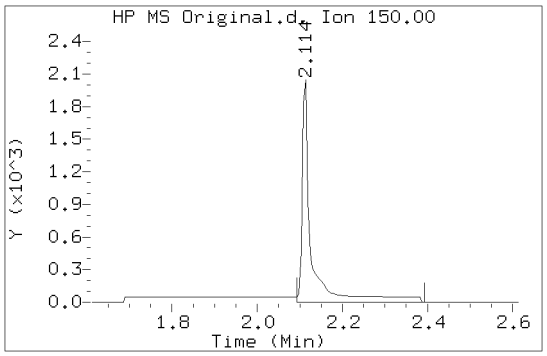
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HEIGHT
1433
21-Jun-2024
13:02



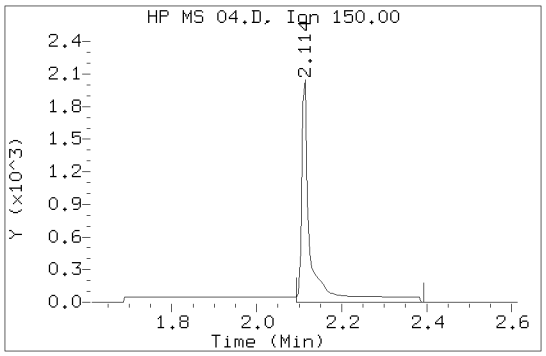
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AREA
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HEIGHT
2046
21-Jun-2024
12:51
ALSHS
Server



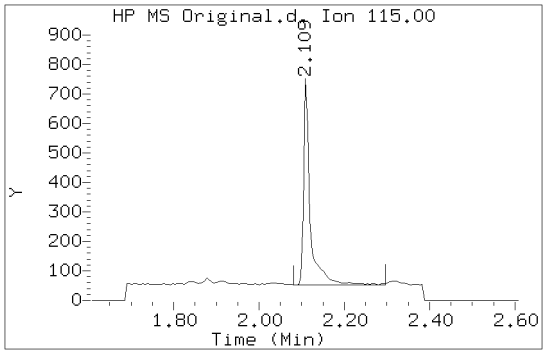
AFTER

MASS
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AREA
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HEIGHT
2046
21-Jun-2024
13:02



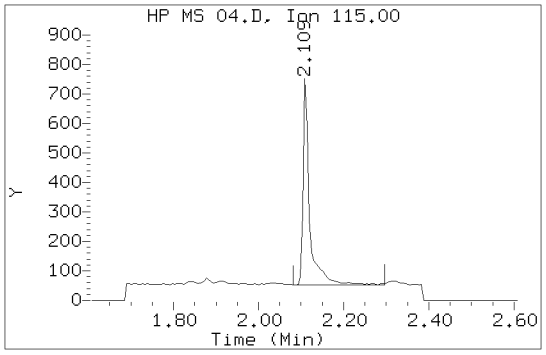
BEFORE

MASS
115
AREA
750
HEIGHT
699
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
115
AREA
750
HEIGHT
699
21-Jun-2024
13:02

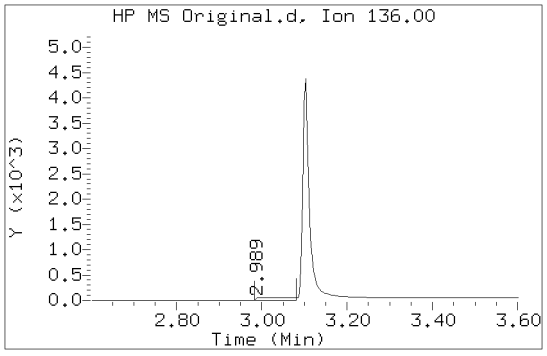


Naphthalene-d8 (1146-65-2)

Reason Code:

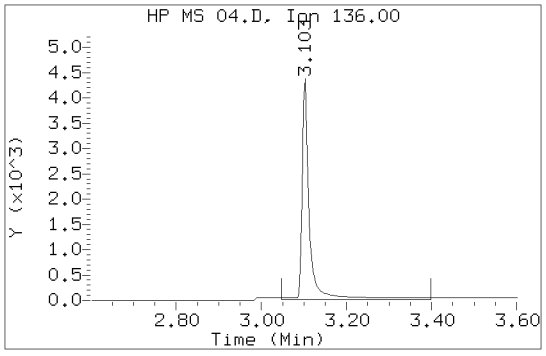
BEFORE

MASS
136
AREA
268
HEIGHT
47
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
136
AREA
5452
HEIGHT
4372
21-Jun-2024
13:02



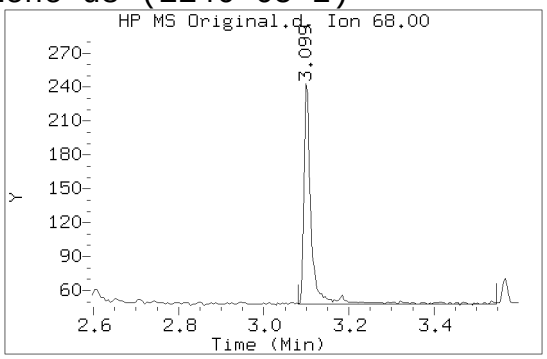
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Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

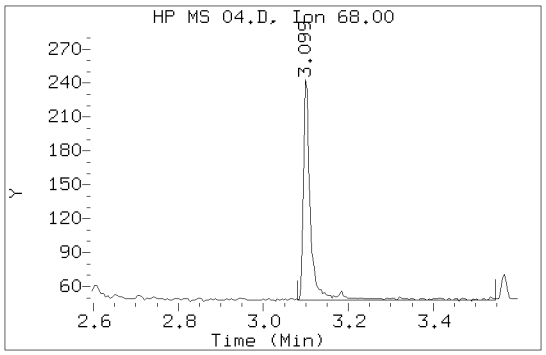
BEFORE

MASS
68
AREA
237
HEIGHT
195
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
68
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237
HEIGHT
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21-Jun-2024
13:02

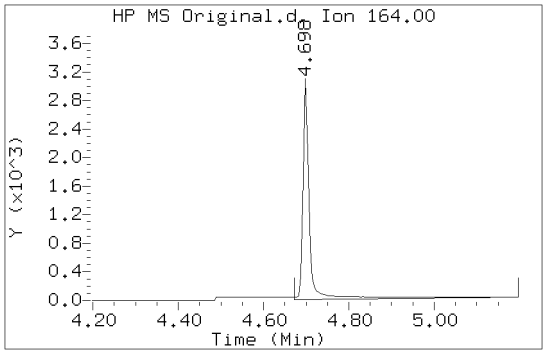


Acenaphthene-d10 (15067-26-2)

Reason Code:

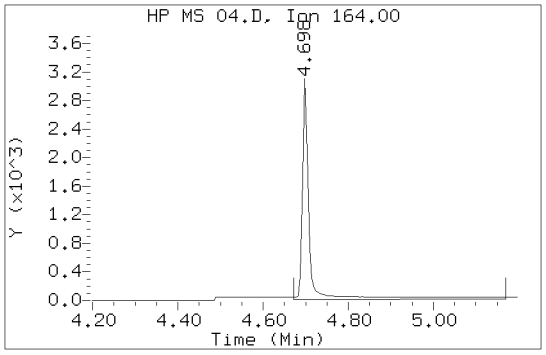
BEFORE

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164
AREA
3296
HEIGHT
3091
21-Jun-2024
12:51
ALSHS
Server



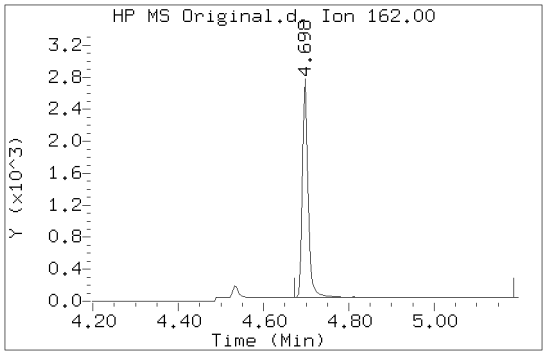
AFTER

MASS
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AREA
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HEIGHT
3091
21-Jun-2024
13:02



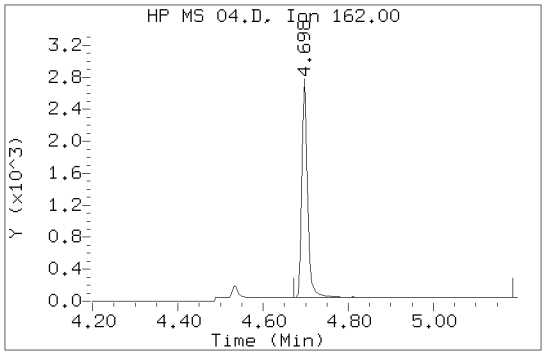
BEFORE

MASS
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AREA
2557
HEIGHT
2734
21-Jun-2024
12:51
ALSHS
Server



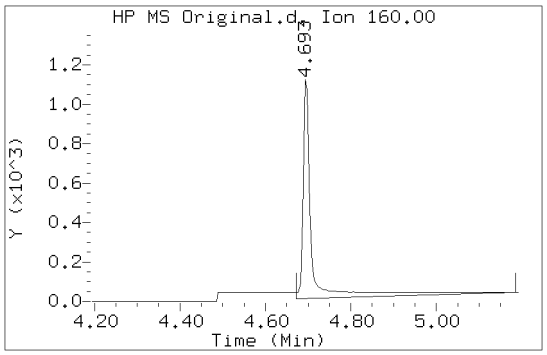
AFTER

MASS
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AREA
2557
HEIGHT
2734
21-Jun-2024
13:02



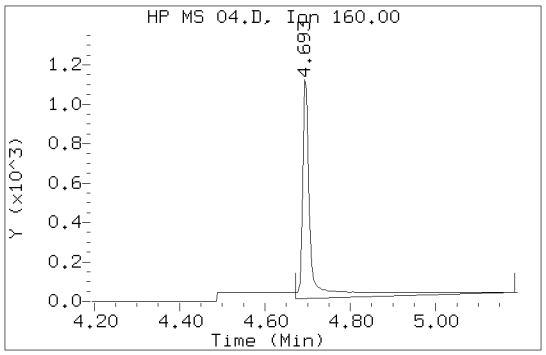
BEFORE

MASS
160
AREA
1602
HEIGHT
1111
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
160
AREA
1602
HEIGHT
1111
21-Jun-2024
13:02



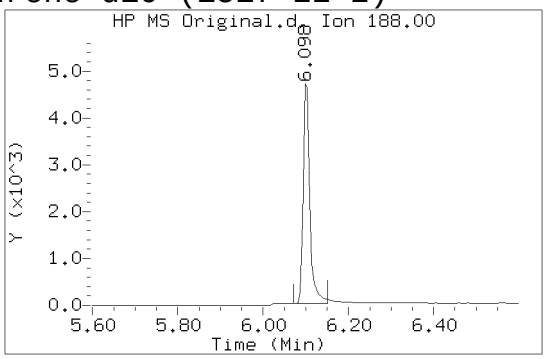
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D
Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

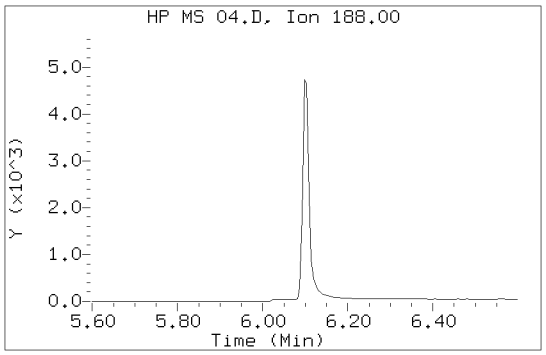
BEFORE

MASS
188
AREA
5054
HEIGHT
4686
21-Jun-2024
12:51
ALSHS
Server



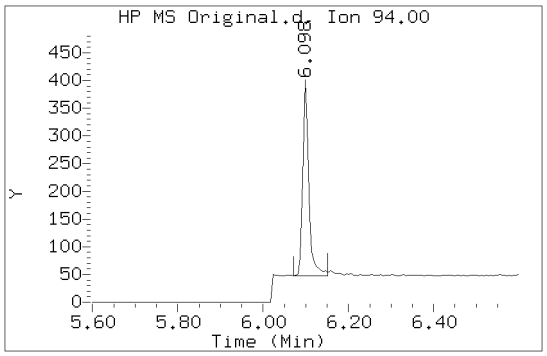
AFTER

MASS
188
AREA
6866
HEIGHT
4731
21-Jun-2024
13:02



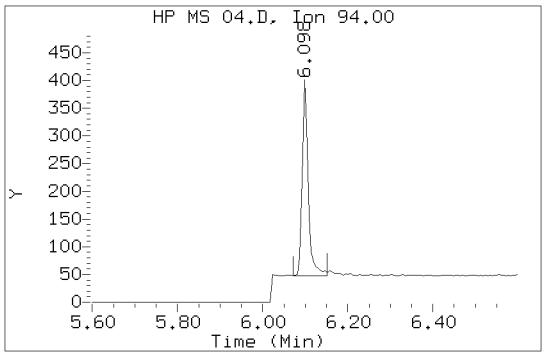
BEFORE

MASS
94
AREA
345
HEIGHT
353
21-Jun-2024
12:51
ALSHS
Server



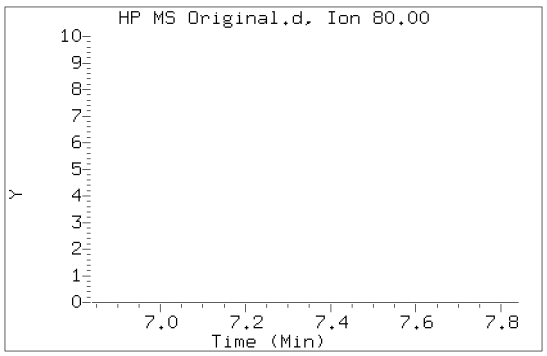
AFTER

MASS
94
AREA
345
HEIGHT
353
21-Jun-2024
13:02



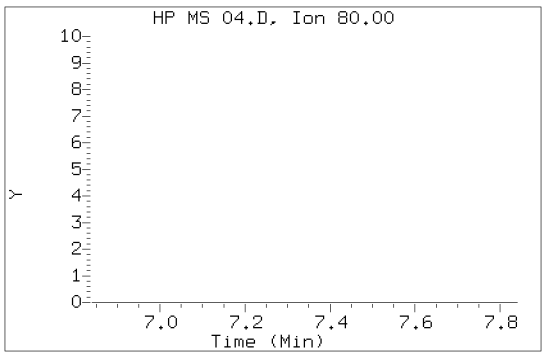
BEFORE

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
13:02

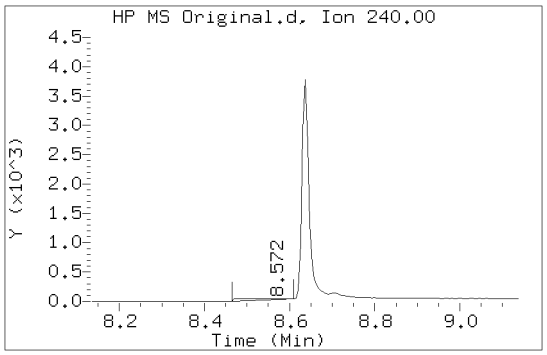


Chrysene-d12 (1719-03-5)

Reason Code:

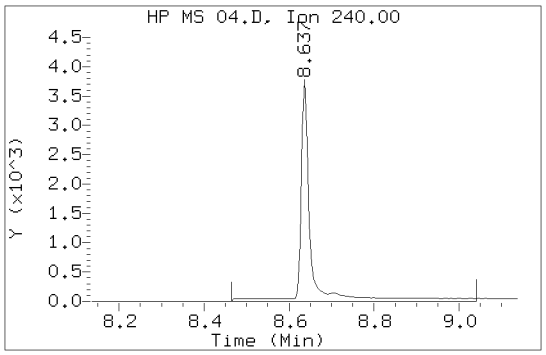
BEFORE

MASS
240
AREA
188
HEIGHT
12
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
240
AREA
6155
HEIGHT
3776
21-Jun-2024
13:02



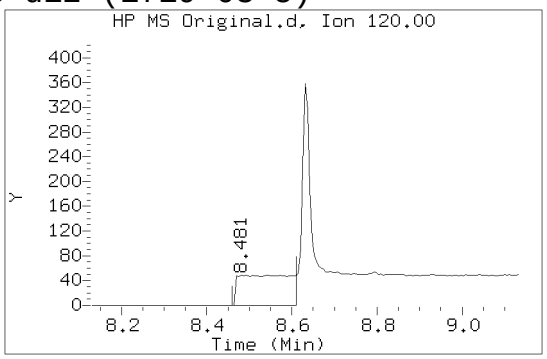
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D
Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

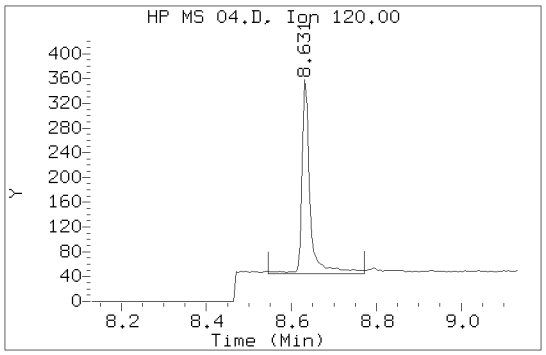
BEFORE

MASS
120
AREA
418
HEIGHT
49
21-Jun-2024
12:51
ALSHS
Server



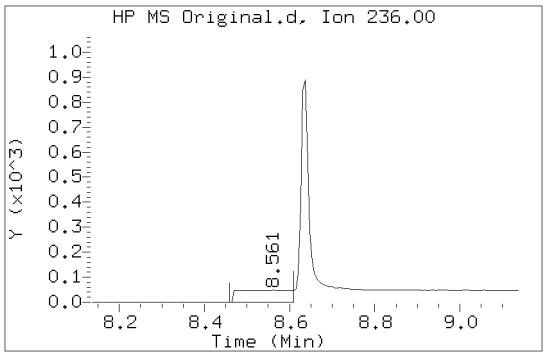
AFTER

MASS
120
AREA
429
HEIGHT
314
21-Jun-2024
13:02



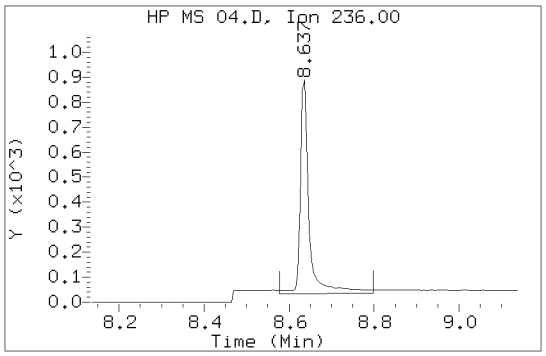
BEFORE

MASS
236
AREA
405
HEIGHT
48
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
236
AREA
1218
HEIGHT
854
21-Jun-2024
13:02

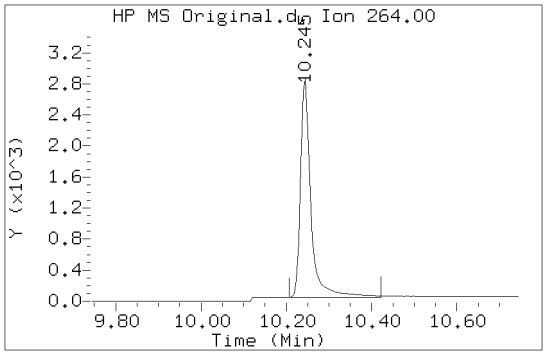


Perylene-d12 (1520-96-3)

Reason Code:

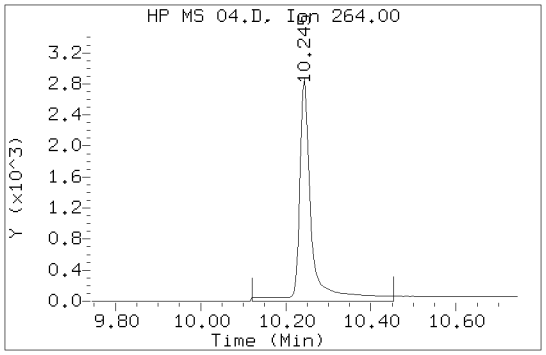
BEFORE

MASS
264
AREA
4758
HEIGHT
2813
21-Jun-2024
12:51
ALSHS
Server



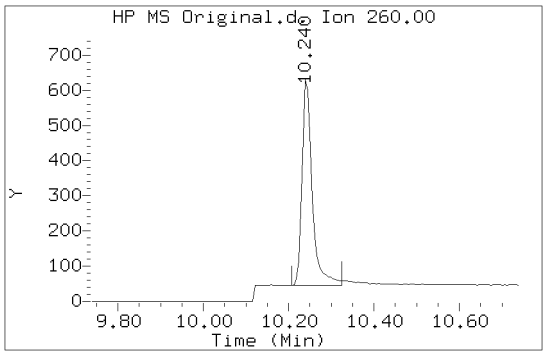
AFTER

MASS
264
AREA
5812
HEIGHT
2864
21-Jun-2024
13:02



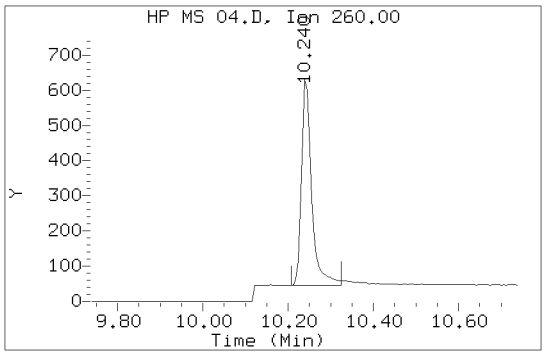
BEFORE

MASS
260
AREA
960
HEIGHT
584
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
260
AREA
960
HEIGHT
584
21-Jun-2024
13:02



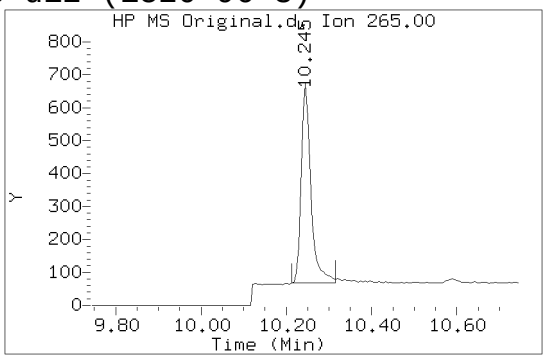
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D
Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

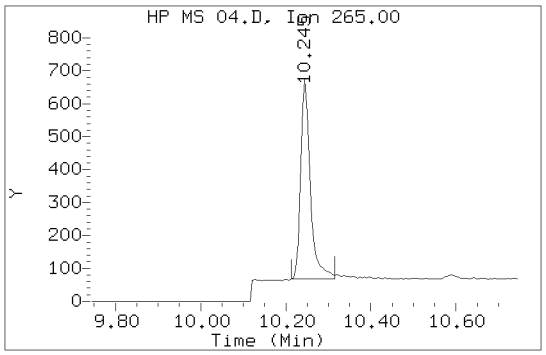
BEFORE

MASS
265
AREA
949
HEIGHT
605
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
265
AREA
949
HEIGHT
605
21-Jun-2024
13:02

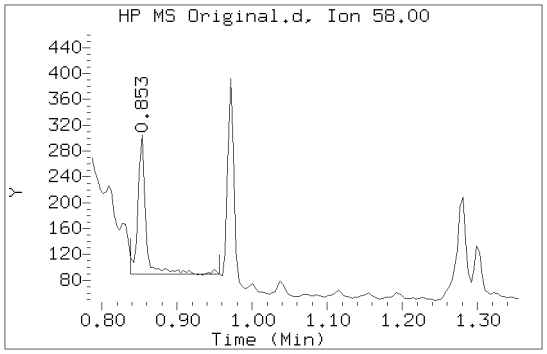


1,4-Dioxane ()

Reason Code:

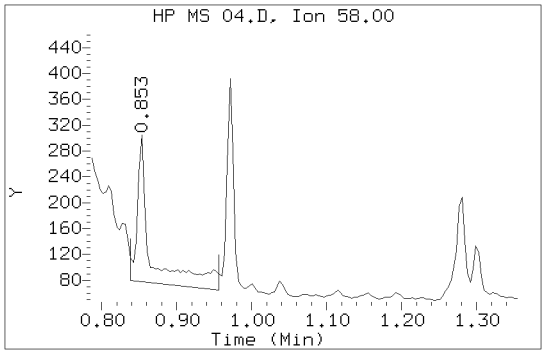
BEFORE

MASS
58
AREA
158
HEIGHT
215
21-Jun-2024
12:51
ALSHS
Server



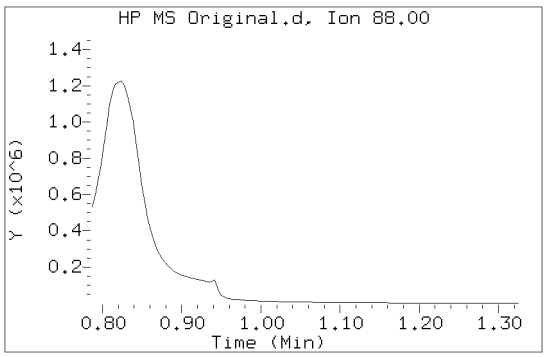
AFTER

MASS
58
AREA
285
HEIGHT
226
21-Jun-2024
13:02



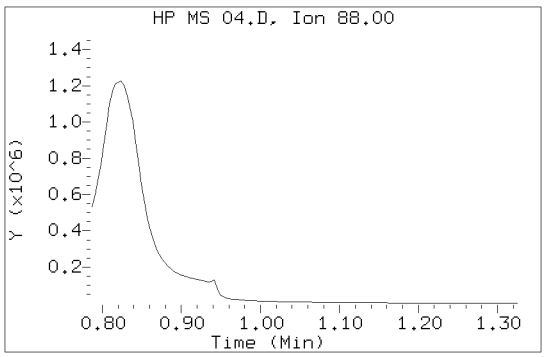
BEFORE

MASS
88
AREA
4530738
HEIGHT
1225858
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
88
AREA
4530738
HEIGHT
1225858
21-Jun-2024
13:02

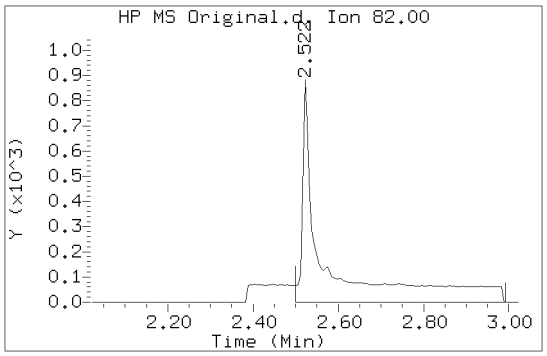


Nitrobenzene-d5 (4165-60-0)

Reason Code:

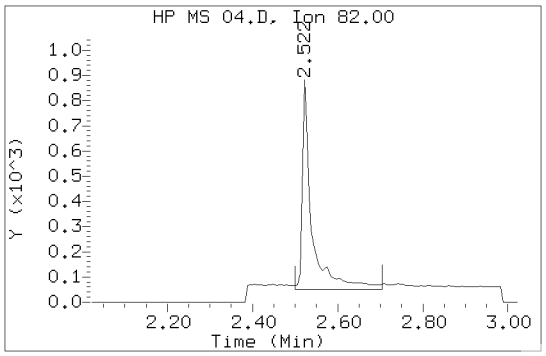
BEFORE

MASS
82
AREA
3012
HEIGHT
882
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
82
AREA
1317
HEIGHT
832
21-Jun-2024
13:02



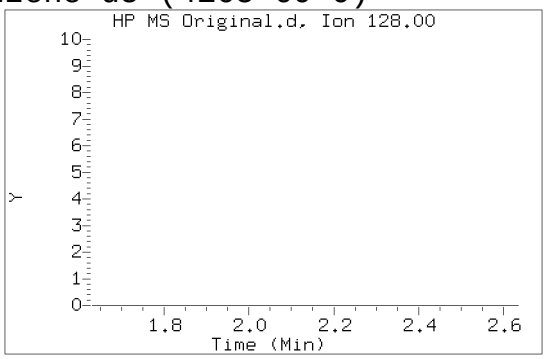
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D
Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

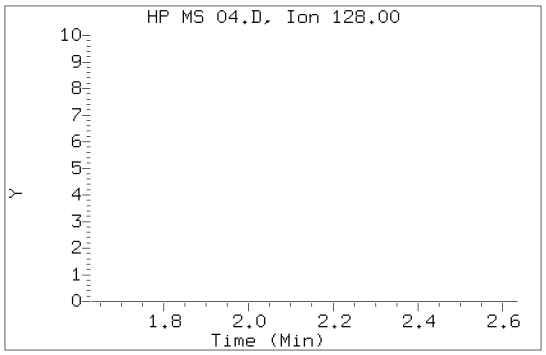
BEFORE

MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
12:51
ALSHS
Server



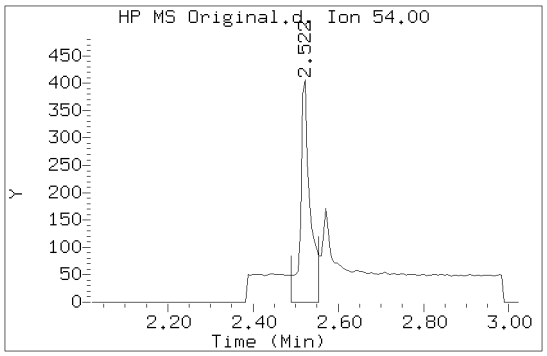
AFTER

MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
13:02



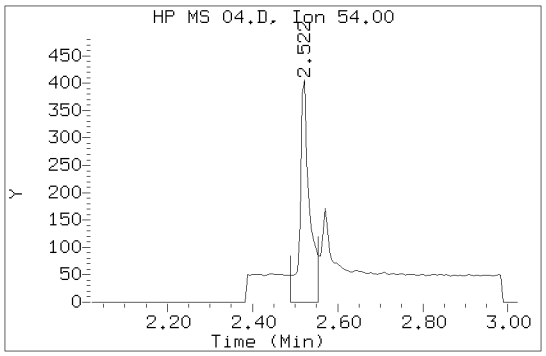
BEFORE

MASS
54
AREA
644
HEIGHT
406
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
54
AREA
644
HEIGHT
406
21-Jun-2024
13:02

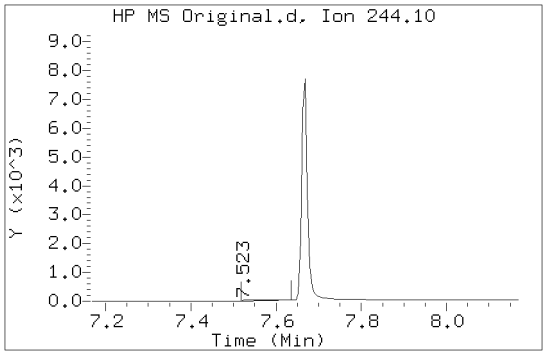


4-Terphenyl-d14 (1718-51-0)

Reason Code:

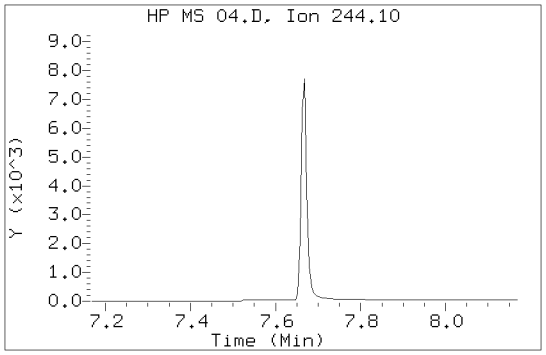
BEFORE

MASS
244.1
AREA
151
HEIGHT
42
21-Jun-2024
12:51
ALSHS
Server



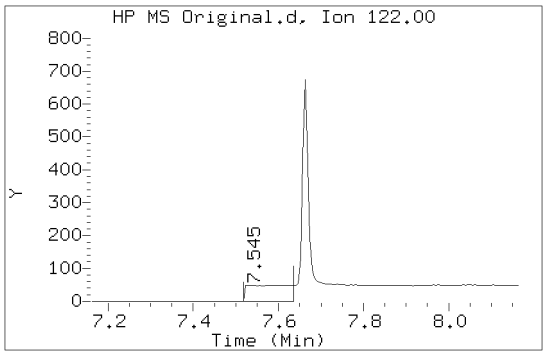
AFTER

MASS
244.1
AREA
8492
HEIGHT
7688
21-Jun-2024
13:02



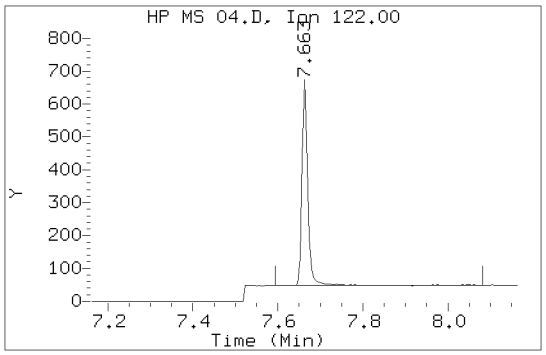
BEFORE

MASS
122
AREA
340
HEIGHT
49
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
122
AREA
609
HEIGHT
626
21-Jun-2024
13:02



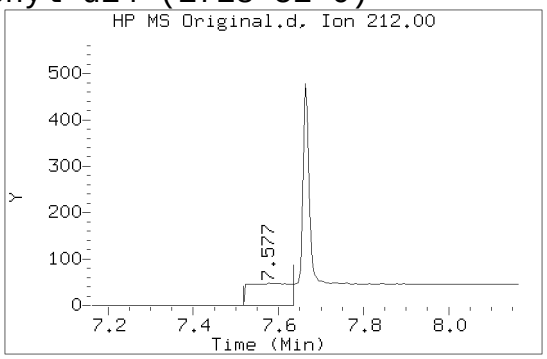
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Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

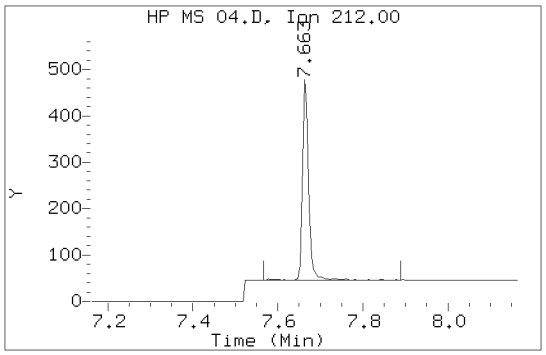
BEFORE

MASS
212
AREA
328
HEIGHT
48
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
212
AREA
437
HEIGHT
432
21-Jun-2024
13:02

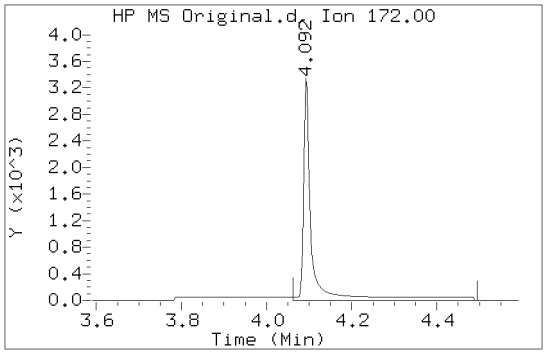


2-Fluorobiphenyl (321-60-8)

Reason Code:

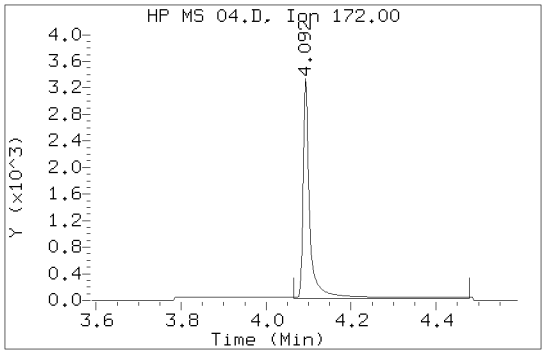
BEFORE

MASS
172
AREA
4718
HEIGHT
3338
21-Jun-2024
12:51
ALSHS
Server



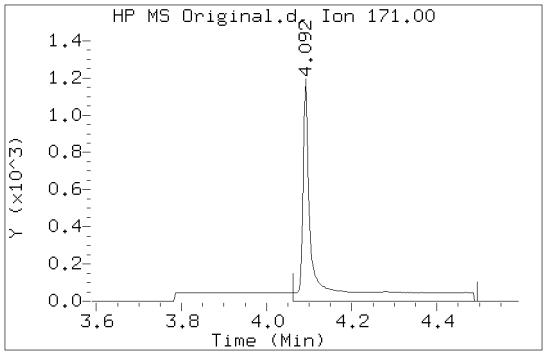
AFTER

MASS
172
AREA
3920
HEIGHT
3308
21-Jun-2024
13:02



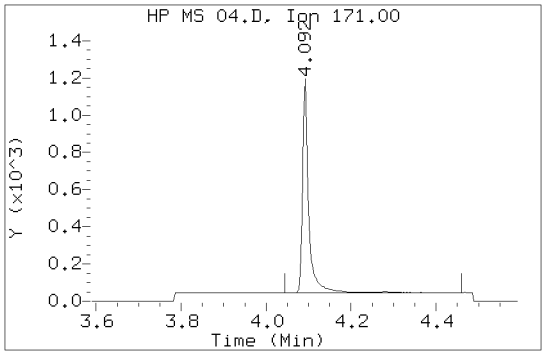
BEFORE

MASS
171
AREA
2347
HEIGHT
1195
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
171
AREA
1184
HEIGHT
1150
21-Jun-2024
13:02



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D Page 1
Report Date: 22-Jun-2024 13:48

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D
Lab Smp Id: MBLK-213652
Inj Date : 21-JUN-2024 15:04
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-213652
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.113	2.113	(1.000)	2291	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.102	3.106	(1.000)	4515	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.814)	865	0.06382	0.06382(M)
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	2790	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	2730	0.06401	0.06401(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	5050	0.10000	
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	4649	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	6727	0.07103	0.07103(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	4760	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D

Date : 21-JUN-2024 15:04

Client ID:

Instrument: SV6.i

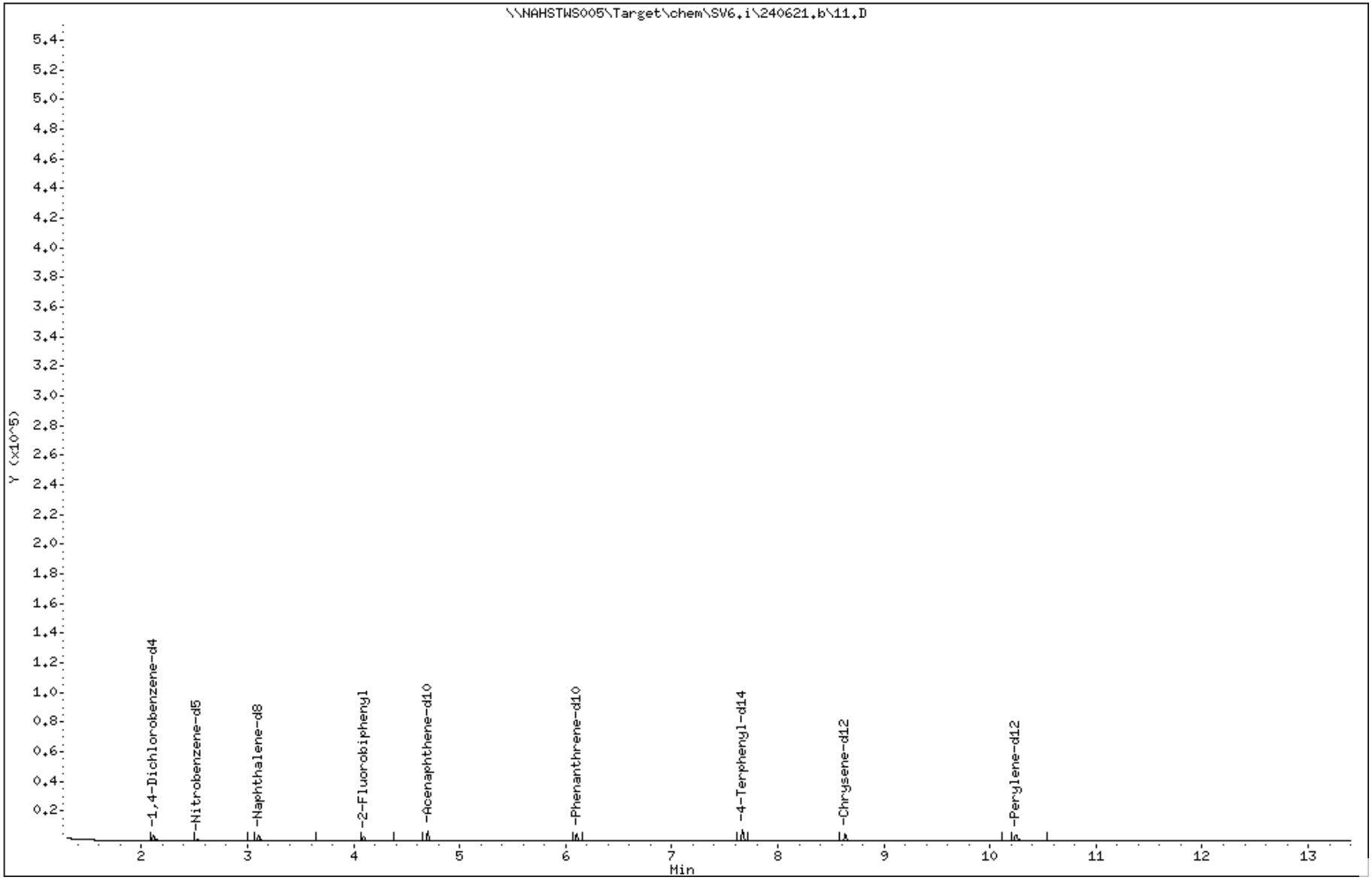
Sample Info: MBLK-213652

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



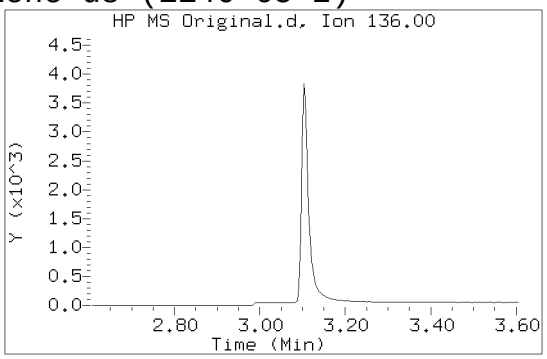
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D
Inj Date : 21-JUN-2024 15:04
InstruID : SV6.i
LabSampID : MBLK-213652

Naphthalene-d8 (1146-65-2)

Reason Code: MBA

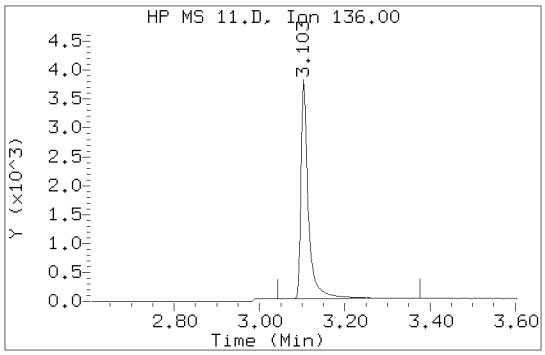
BEFORE

MASS
136
AREA
0
HEIGHT
0
21-Jun-2024
15:18
ALSHS
Server



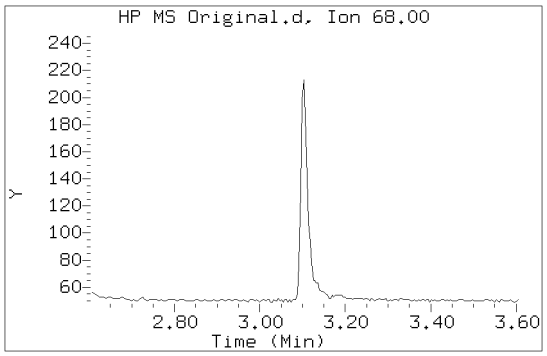
AFTER

MASS
136
AREA
4515
HEIGHT
3786
22-Jun-2024
13:48



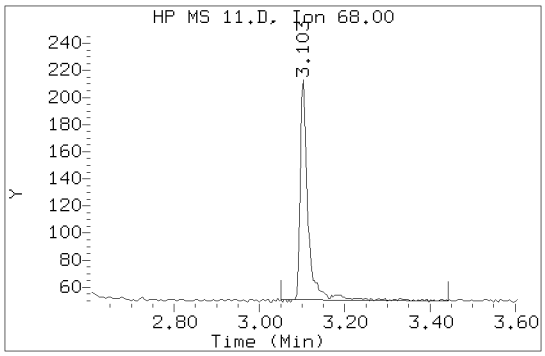
BEFORE

MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
15:18
ALSHS
Server



AFTER

MASS
68
AREA
204
HEIGHT
162
22-Jun-2024
13:48

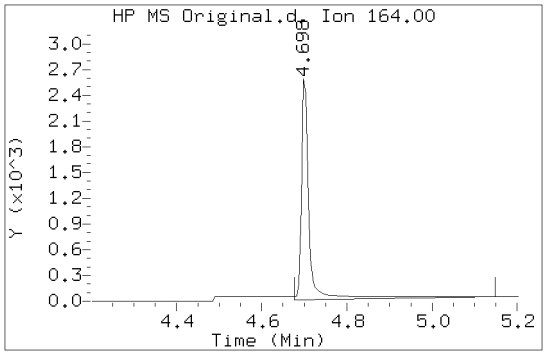


Acenaphthene-d10 (15067-26-2)

Reason Code:

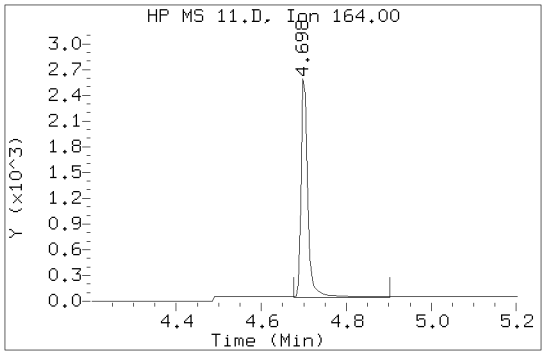
BEFORE

MASS
164
AREA
3262
HEIGHT
2575
21-Jun-2024
15:18
ALSHS
Server



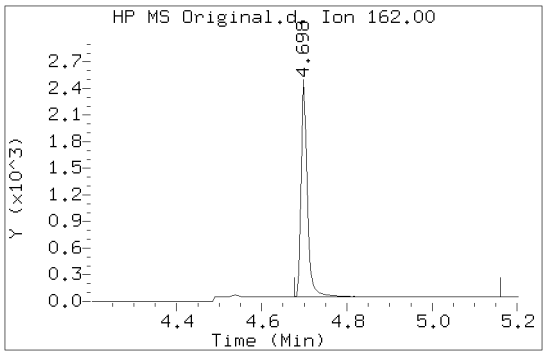
AFTER

MASS
164
AREA
2790
HEIGHT
2546
22-Jun-2024
13:48



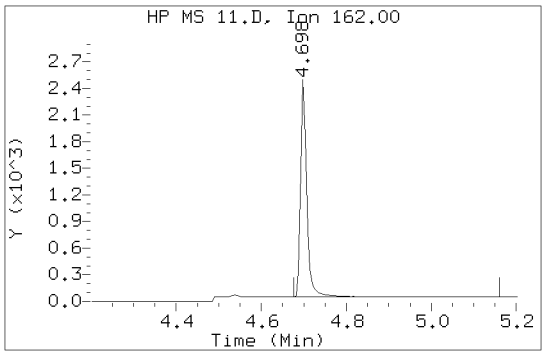
BEFORE

MASS
162
AREA
2489
HEIGHT
2450
21-Jun-2024
15:18
ALSHS
Server



AFTER

MASS
162
AREA
2489
HEIGHT
2450
22-Jun-2024
13:48



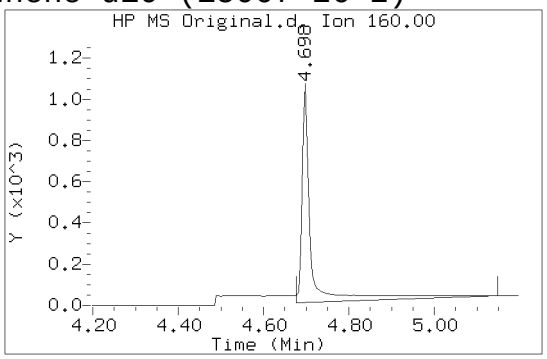
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Inj Date : 21-JUN-2024 15:04
InstruID : SV6.i
LabSampID : MBLK-213652

Acenaphthene-d10 (15067-26-2)

Reason Code:

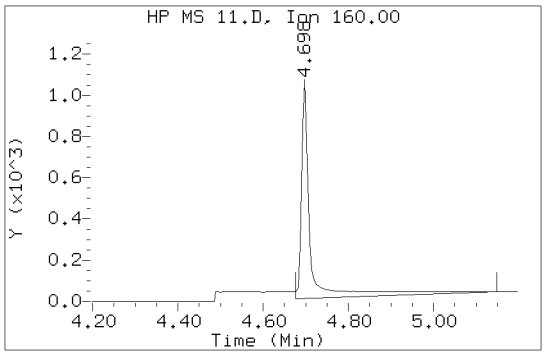
BEFORE

MASS
160
AREA
1535
HEIGHT
1061
21-Jun-2024
15:18
ALSHS
Server



AFTER

MASS
160
AREA
1535
HEIGHT
1061
22-Jun-2024
13:48

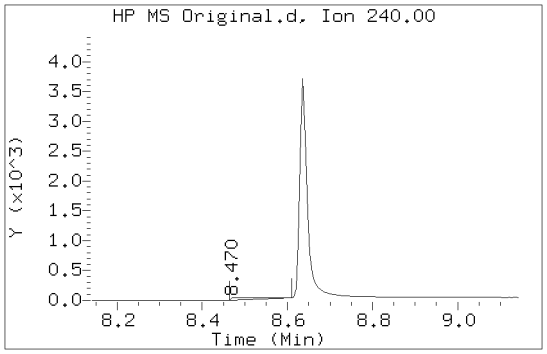


Chrysene-d12 (1719-03-5)

Reason Code:

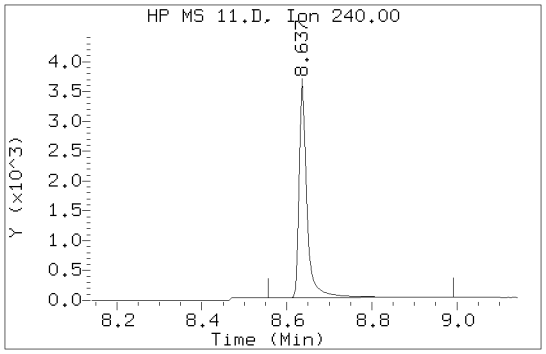
BEFORE

MASS
240
AREA
191
HEIGHT
45
21-Jun-2024
15:18
ALSHS
Server



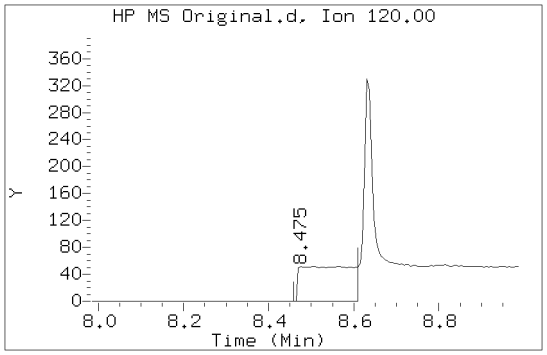
AFTER

MASS
240
AREA
4649
HEIGHT
3668
22-Jun-2024
13:48



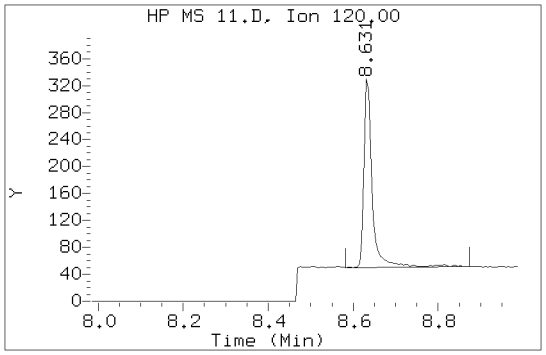
BEFORE

MASS
120
AREA
444
HEIGHT
52
21-Jun-2024
15:18
ALSHS
Server



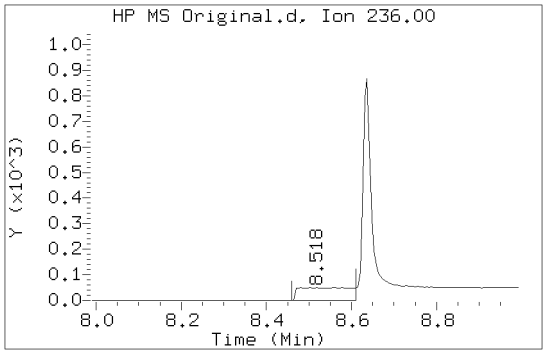
AFTER

MASS
120
AREA
371
HEIGHT
279
22-Jun-2024
13:48



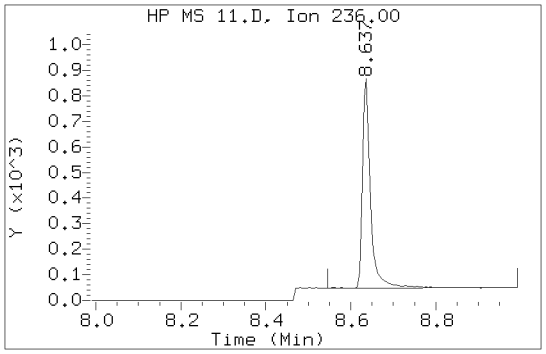
BEFORE

MASS
236
AREA
419
HEIGHT
50
21-Jun-2024
15:18
ALSHS
Server



AFTER

MASS
236
AREA
1082
HEIGHT
818
22-Jun-2024
13:48

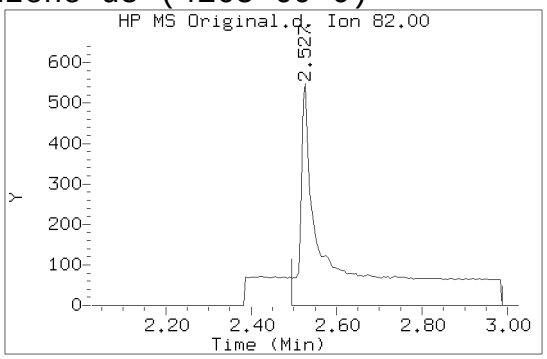


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D
Inj Date : 21-JUN-2024 15:04
InstruID : SV6.i
LabSampID : MBLK-213652

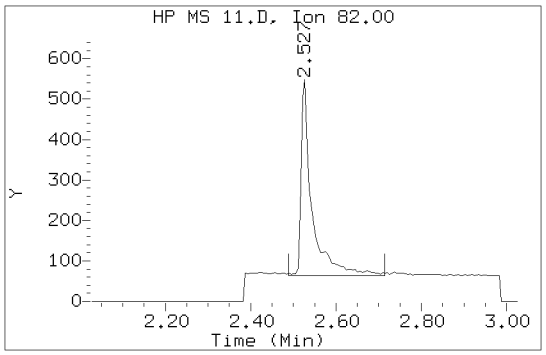
Nitrobenzene-d5 (4165-60-0)

Reason Code:

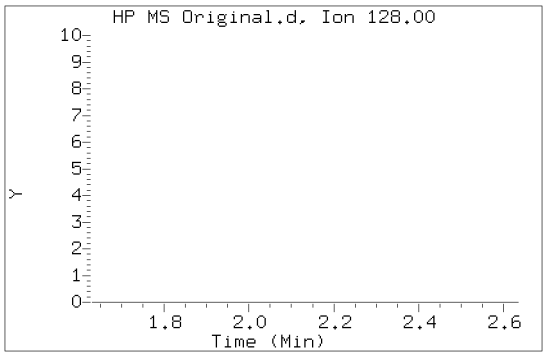
BEFORE
MASS
82
AREA
2792
HEIGHT
548
21-Jun-2024
15:18
ALSHS
Server



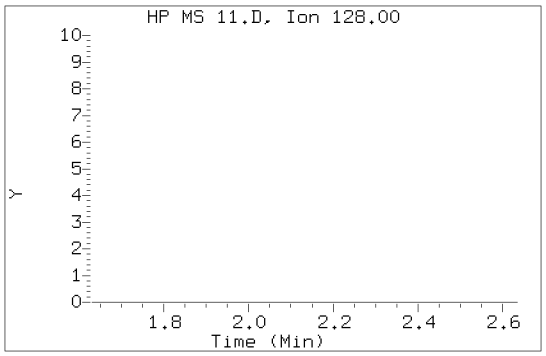
AFTER
MASS
82
AREA
865
HEIGHT
484
22-Jun-2024
13:48



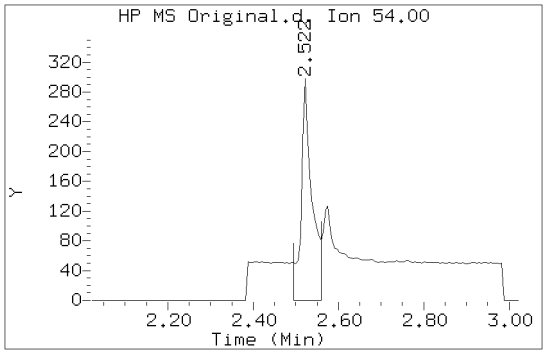
BEFORE
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
15:18
ALSHS
Server



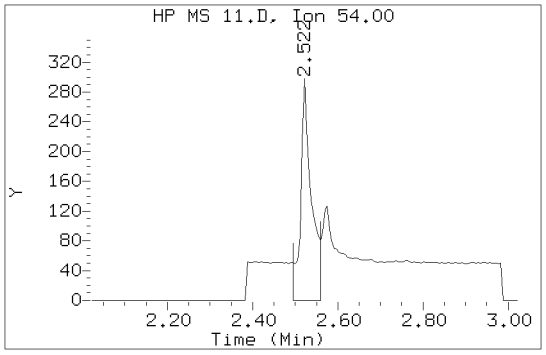
AFTER
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
13:48



BEFORE
MASS
54
AREA
535
HEIGHT
298
21-Jun-2024
15:18
ALSHS
Server



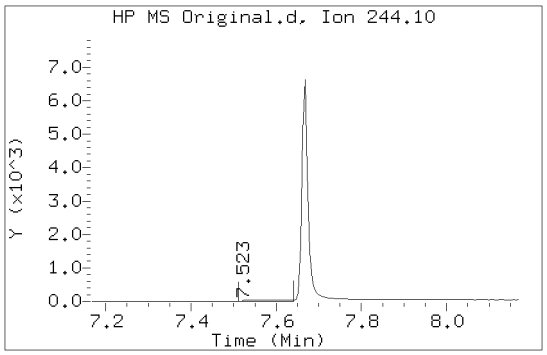
AFTER
MASS
54
AREA
535
HEIGHT
298
22-Jun-2024
13:48



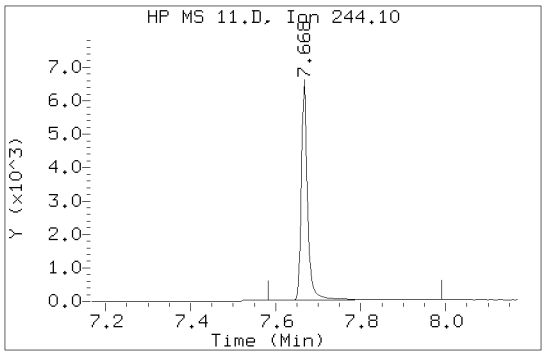
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
336
HEIGHT
46
21-Jun-2024
15:18
ALSHS
Server



AFTER
MASS
244.1
AREA
6727
HEIGHT
6584
22-Jun-2024
13:48



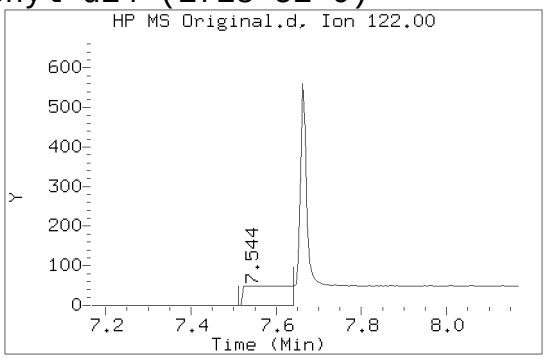
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D
Inj Date : 21-JUN-2024 15:04
InstruID : SV6.i
LabSampID : MBLK-213652

4-Terphenyl-d14 (1718-51-0)

Reason Code:

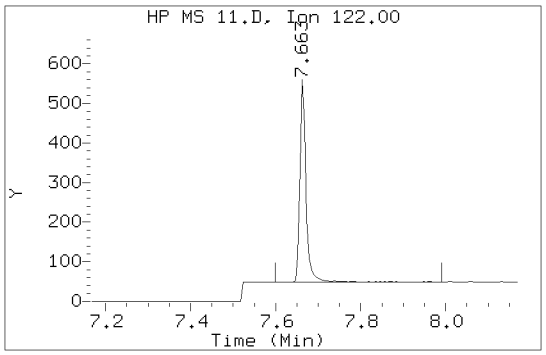
BEFORE

MASS
122
AREA
358
HEIGHT
49
21-Jun-2024
15:18
ALSHS
Server



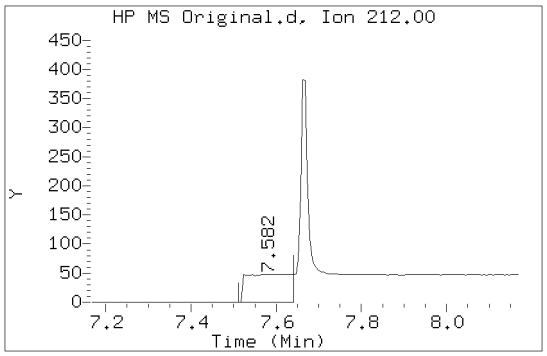
AFTER

MASS
122
AREA
522
HEIGHT
511
22-Jun-2024
13:48



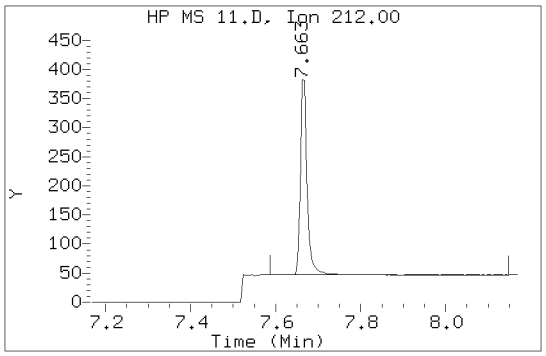
BEFORE

MASS
212
AREA
347
HEIGHT
48
21-Jun-2024
15:18
ALSHS
Server



AFTER

MASS
212
AREA
390
HEIGHT
335
22-Jun-2024
13:48

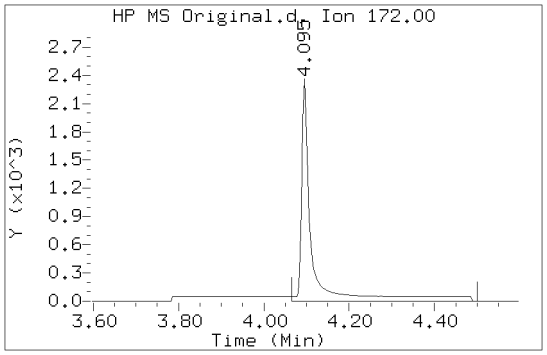


2-Fluorobiphenyl (321-60-8)

Reason Code:

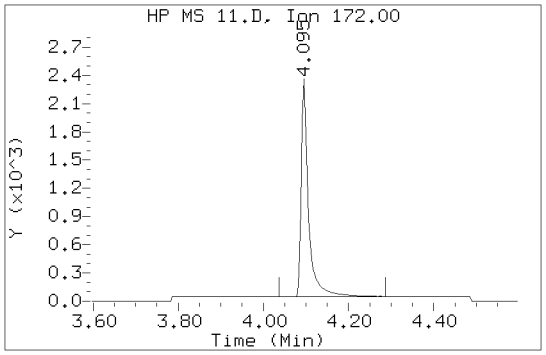
BEFORE

MASS
172
AREA
3987
HEIGHT
2363
21-Jun-2024
15:18
ALSHS
Server



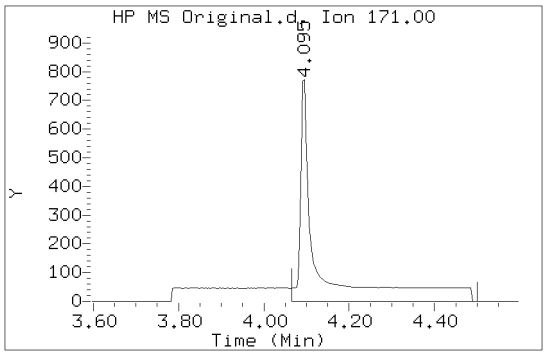
AFTER

MASS
172
AREA
2730
HEIGHT
2316
22-Jun-2024
13:48



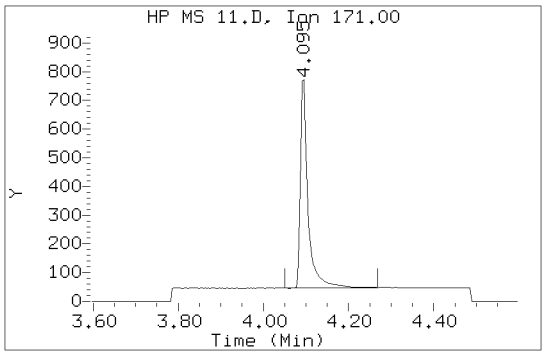
BEFORE

MASS
171
AREA
2099
HEIGHT
772
21-Jun-2024
15:18
ALSHS
Server



AFTER

MASS
171
AREA
898
HEIGHT
725
22-Jun-2024
13:48



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D Page 1
Report Date: 22-Jun-2024 13:49

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D
Lab Smp Id: LCS1-213652
Inj Date : 21-JUN-2024 15:21
Operator : LG Inst ID: SV6.i
Smp Info : LCS1-213652
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.119	2.113	(1.000)	2613	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.103	3.106	(1.000)	5570	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.814)	1112	0.06650	0.06650(M)
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	3363	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	3786	0.07365	0.07364(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	6471	0.10000	(M)
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	5854	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	8205	0.06880	0.06880(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	5878	0.10000	
1 1,4-Dioxane	58	0.868	0.842	(0.410)	421	0.07522	0.07522

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D

Date : 21-JUN-2024 15:21

Client ID:

Instrument: SV6.i

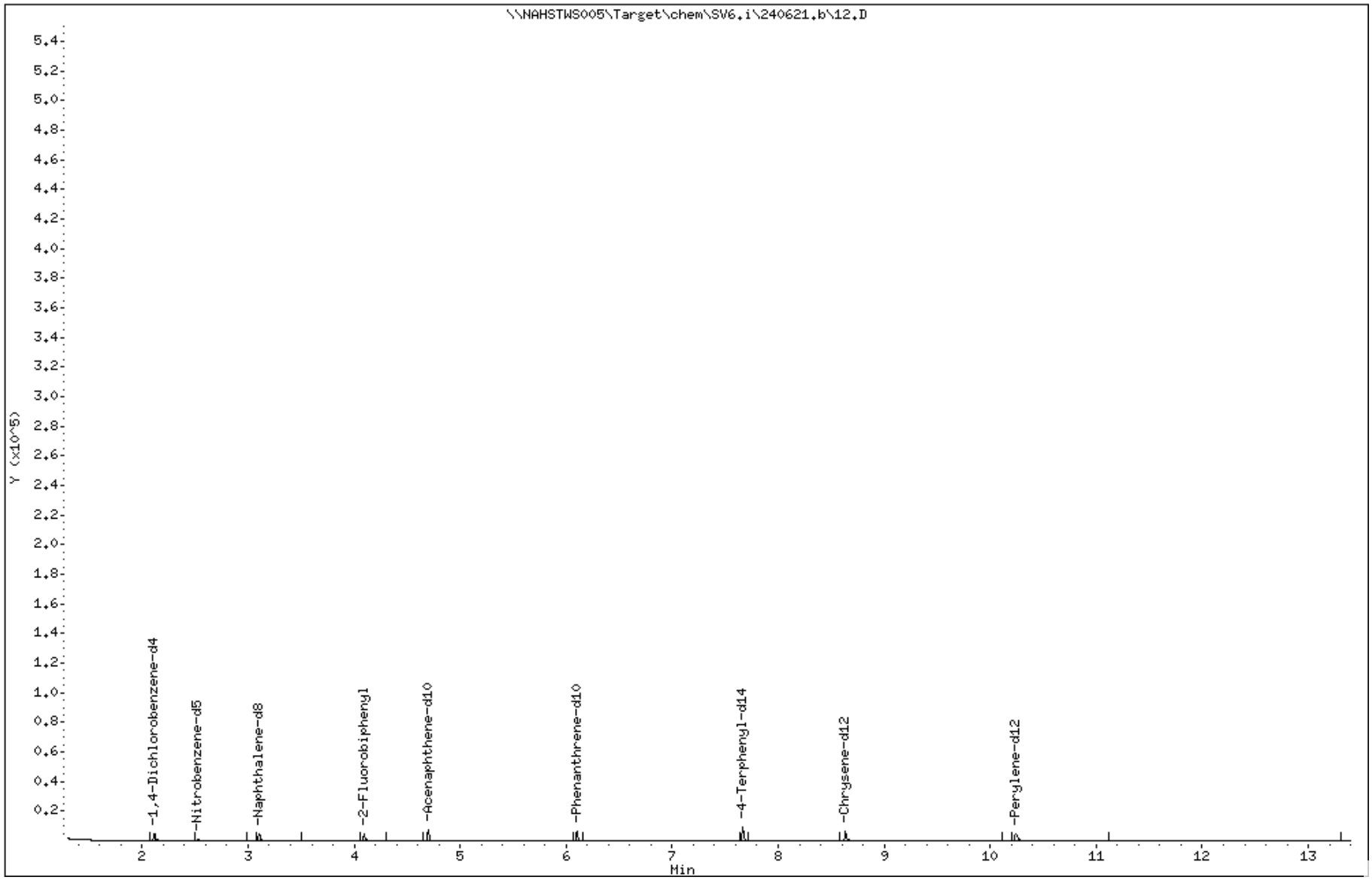
Sample Info: LCS1-213652

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D Page 2

Date : 21-JUN-2024 15:21

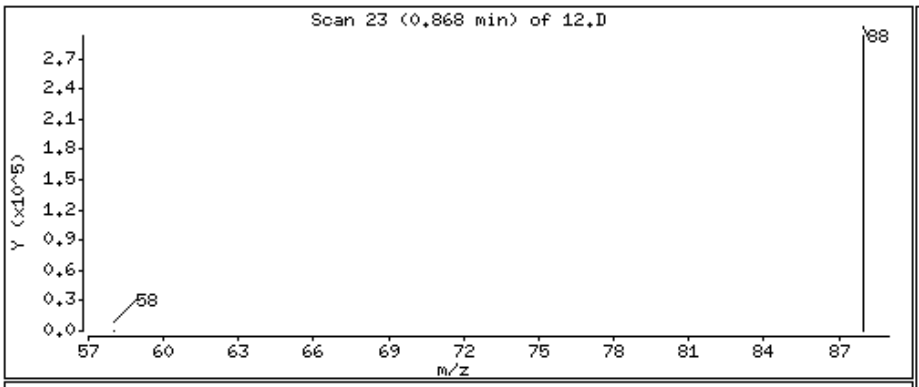
Client ID: Instrument: SV6.i

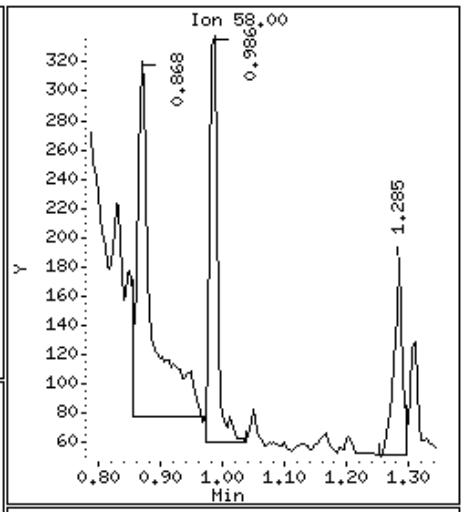
Sample Info: LCS1-213652

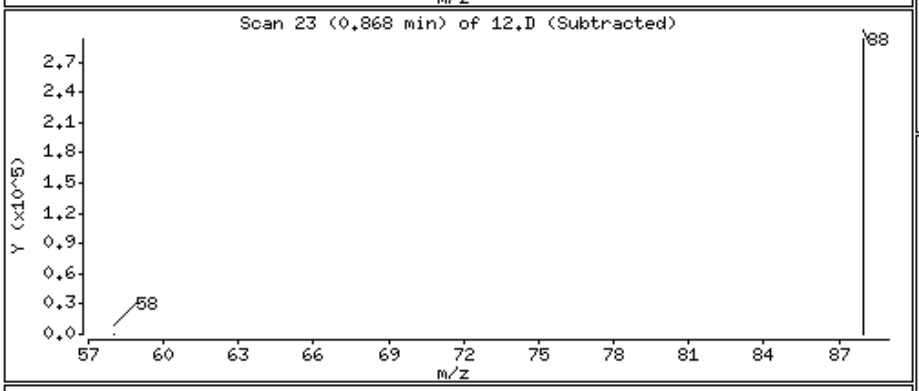
Purge Volume: 1000.0 Operator: LG

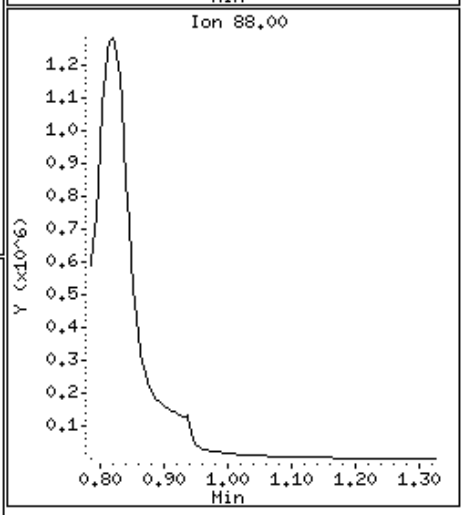
Column phase: RTX-5SIL MS Column diameter: 0.28

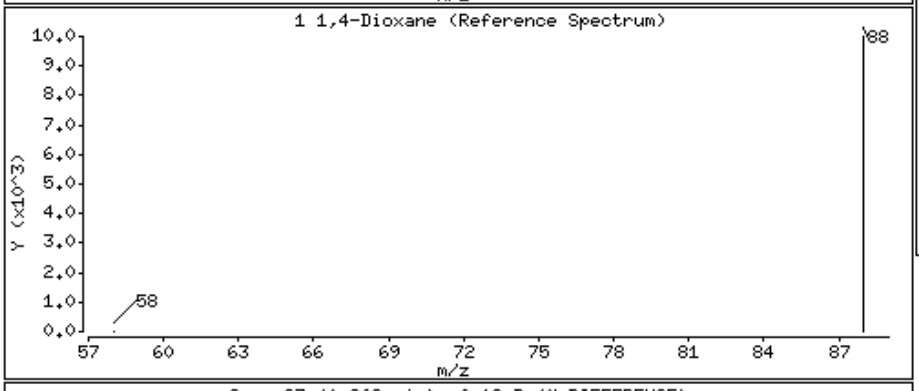
1 1,4-Dioxane Concentration: 0.07522 ug/L

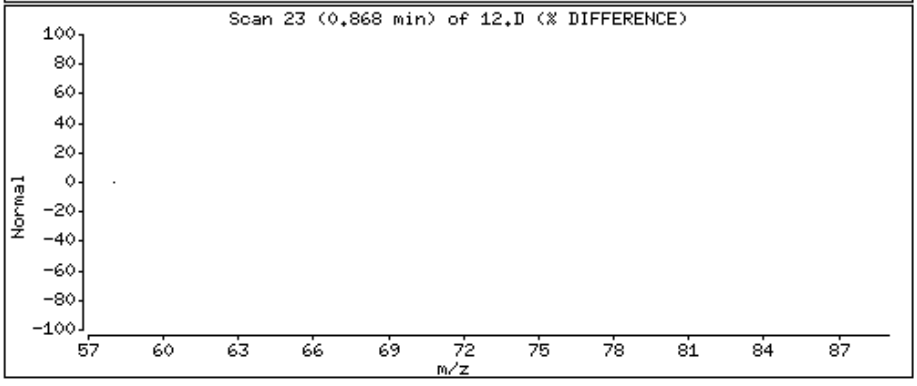












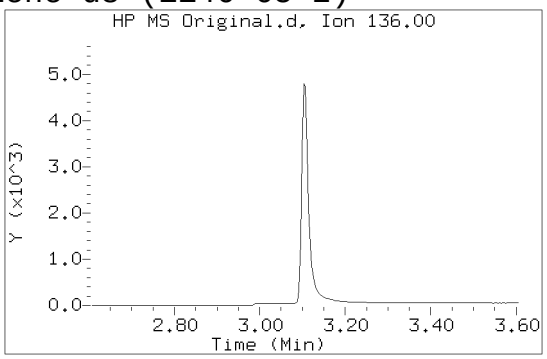
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D
Inj Date : 21-JUN-2024 15:21
InstruID : SV6.i
LabSampID : LCS1-213652

Naphthalene-d8 (1146-65-2)

Reason Code:

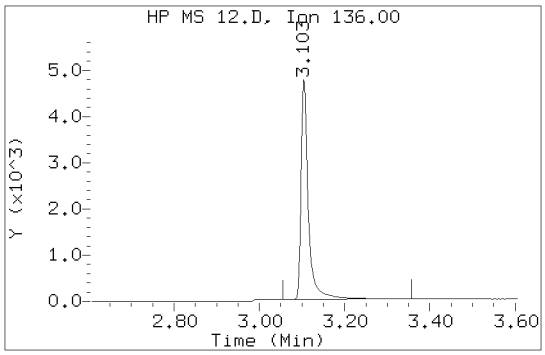
BEFORE

MASS
136
AREA
0
HEIGHT
0
21-Jun-2024
15:37
ALSHS
Server



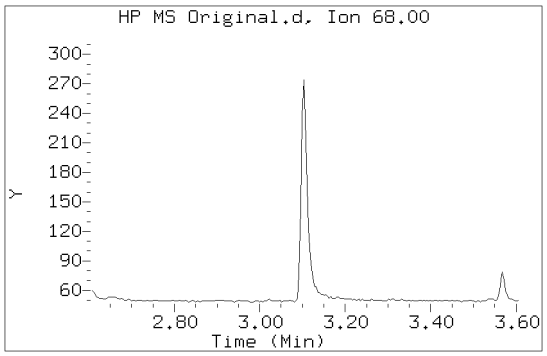
AFTER

MASS
136
AREA
5570
HEIGHT
4751
22-Jun-2024
13:49



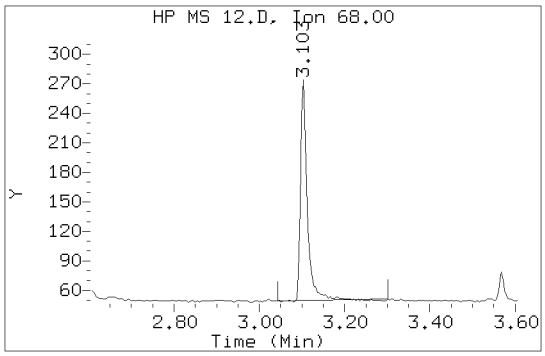
BEFORE

MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
68
AREA
241
HEIGHT
224
22-Jun-2024
13:49

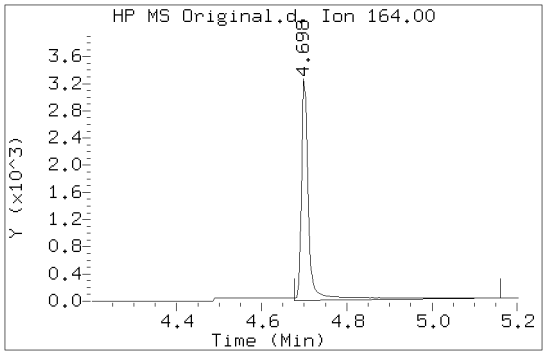


Acenaphthene-d10 (15067-26-2)

Reason Code:

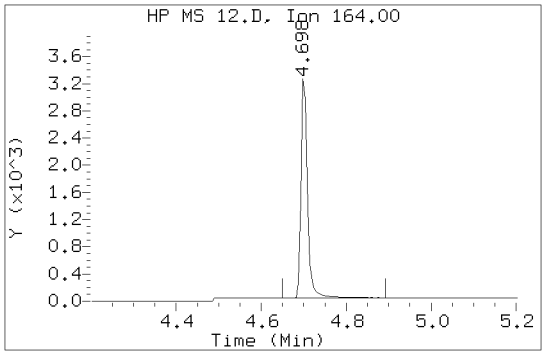
BEFORE

MASS
164
AREA
3898
HEIGHT
3254
21-Jun-2024
15:37
ALSHS
Server



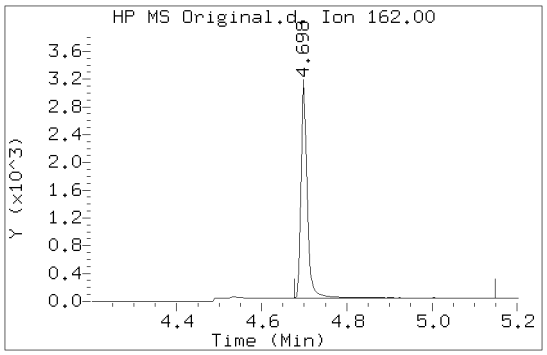
AFTER

MASS
164
AREA
3363
HEIGHT
3221
22-Jun-2024
13:49



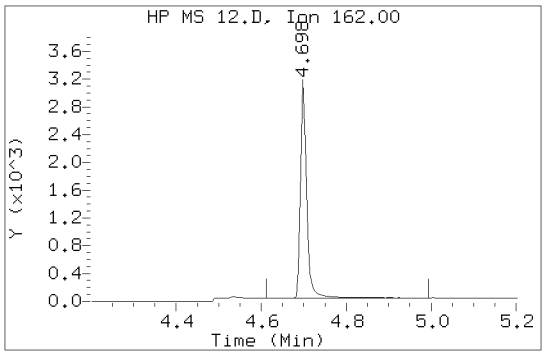
BEFORE

MASS
162
AREA
3102
HEIGHT
3143
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
162
AREA
3098
HEIGHT
3143
22-Jun-2024
13:49



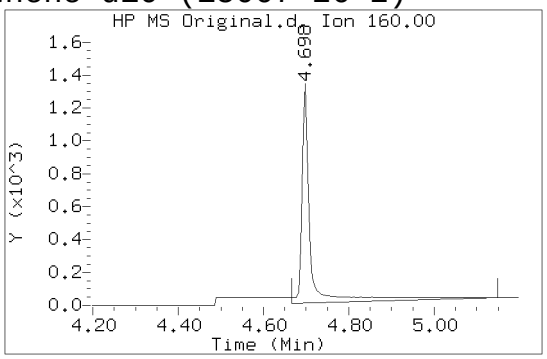
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Inj Date : 21-JUN-2024 15:21
InstruID : SV6.i
LabSampID : LCS1-213652

Acenaphthene-d10 (15067-26-2)

Reason Code:

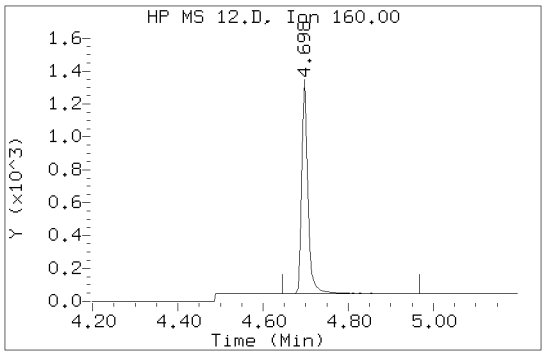
BEFORE

MASS
160
AREA
1831
HEIGHT
1333
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
160
AREA
1328
HEIGHT
1302
22-Jun-2024
13:49

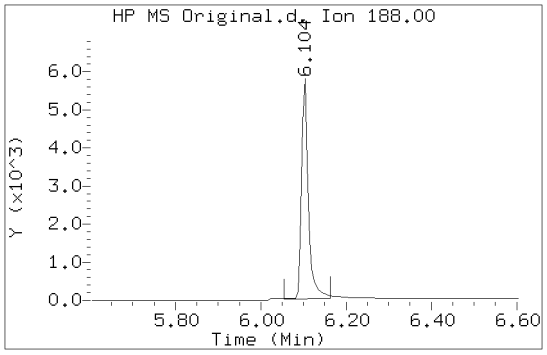


Phenanthrene-d10 (1517-22-2)

Reason Code:

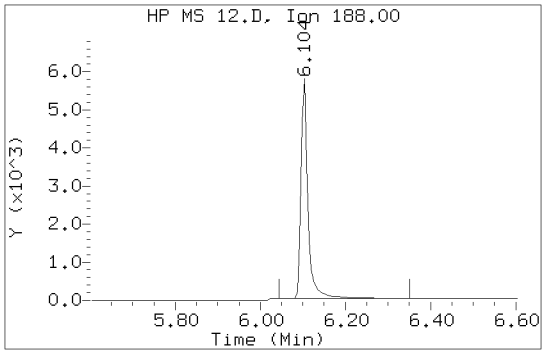
BEFORE

MASS
188
AREA
6333
HEIGHT
5775
21-Jun-2024
15:37
ALSHS
Server



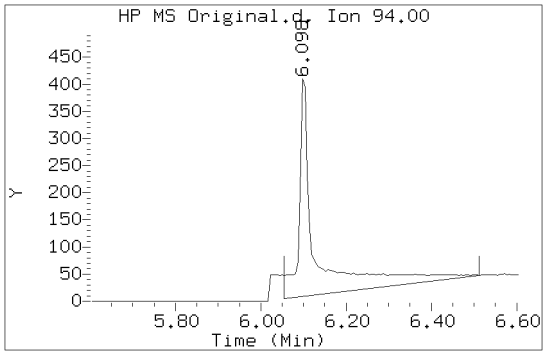
AFTER

MASS
188
AREA
6471
HEIGHT
5770
22-Jun-2024
13:49



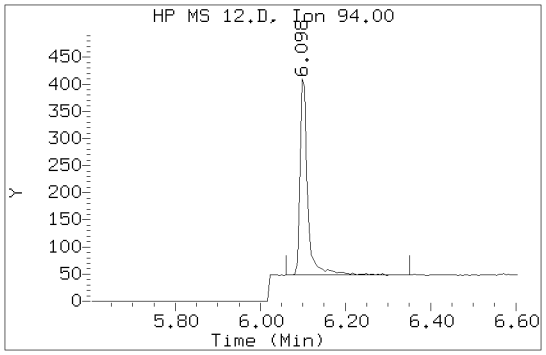
BEFORE

MASS
94
AREA
1069
HEIGHT
401
21-Jun-2024
15:37
ALSHS
Server



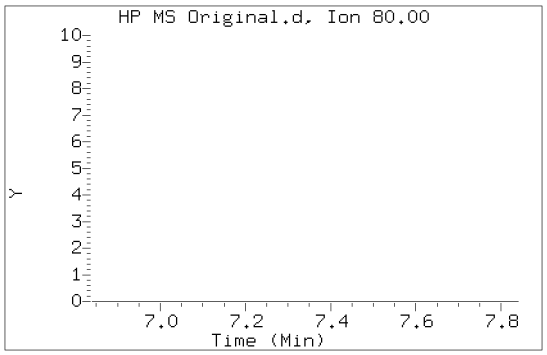
AFTER

MASS
94
AREA
433
HEIGHT
361
22-Jun-2024
13:49



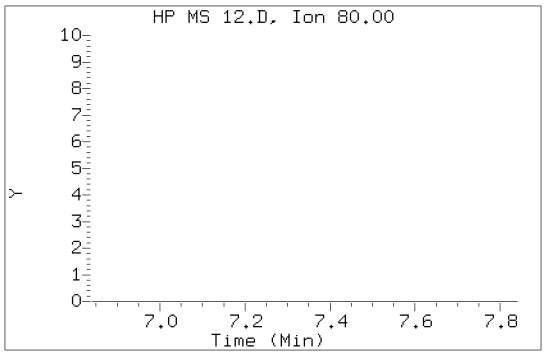
BEFORE

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
13:49



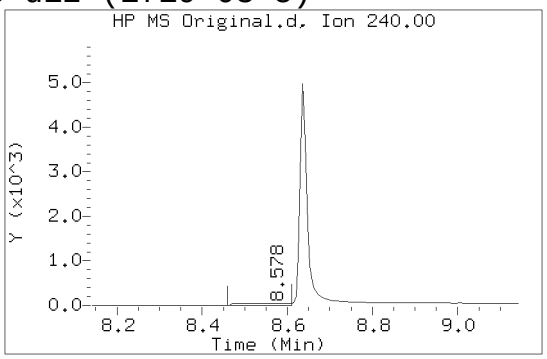
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Inj Date : 21-JUN-2024 15:21
InstruID : SV6.i
LabSampID : LCS1-213652

Chrysene-d12 (1719-03-5)

Reason Code:

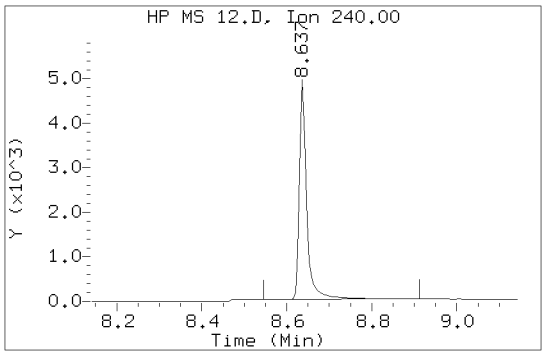
BEFORE

MASS
240
AREA
401
HEIGHT
48
21-Jun-2024
15:37
ALSHS
Server



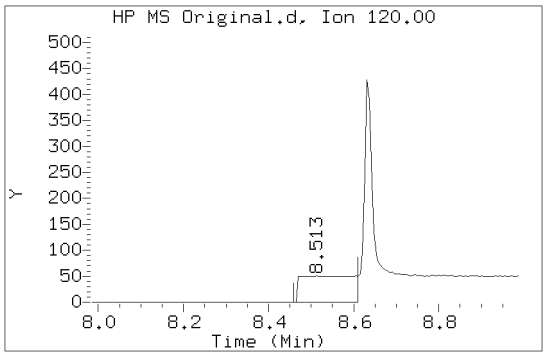
AFTER

MASS
240
AREA
5854
HEIGHT
4928
22-Jun-2024
13:49



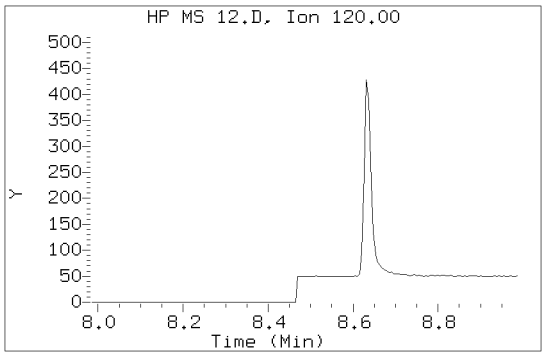
BEFORE

MASS
120
AREA
433
HEIGHT
51
21-Jun-2024
15:37
ALSHS
Server



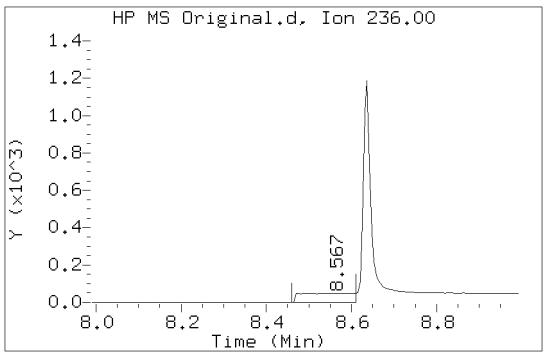
AFTER

MASS
120
AREA
462
HEIGHT
378
22-Jun-2024
13:49



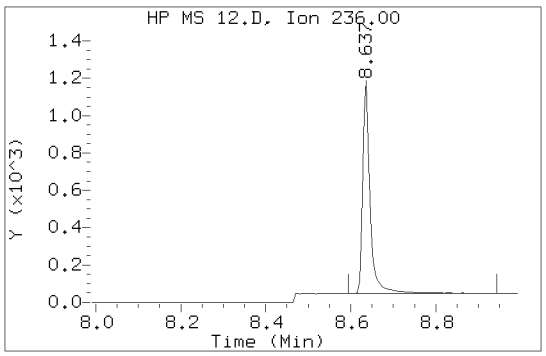
BEFORE

MASS
236
AREA
411
HEIGHT
49
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
236
AREA
1386
HEIGHT
1140
22-Jun-2024
13:49

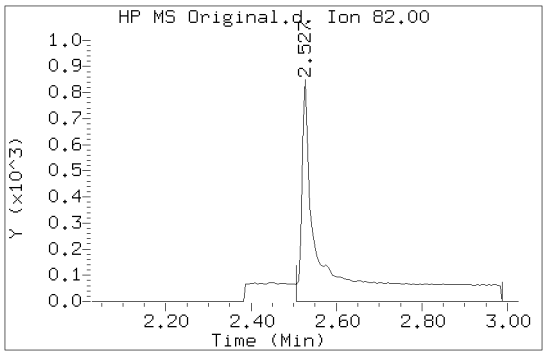


Nitrobenzene-d5 (4165-60-0)

Reason Code:

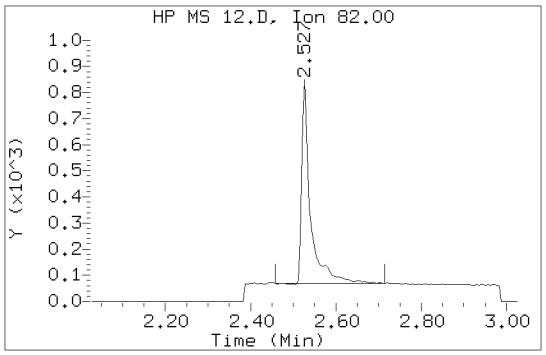
BEFORE

MASS
82
AREA
3038
HEIGHT
849
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
82
AREA
1112
HEIGHT
780
22-Jun-2024
13:49

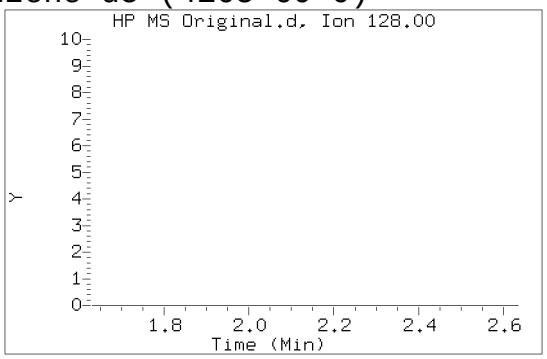


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Inj Date : 21-JUN-2024 15:21
InstruID : SV6.i
LabSampID : LCS1-213652

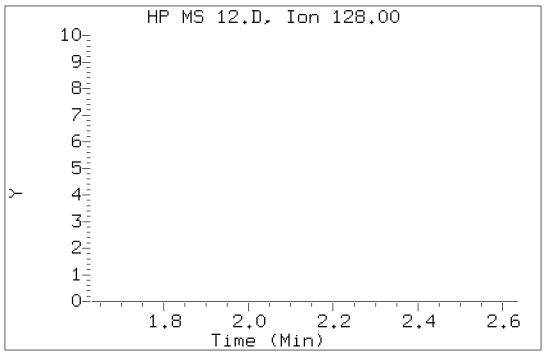
Nitrobenzene-d5 (4165-60-0)

Reason Code:

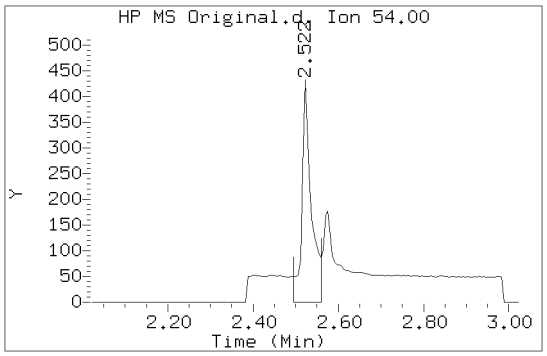
BEFORE
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
15:37
ALSHS
Server



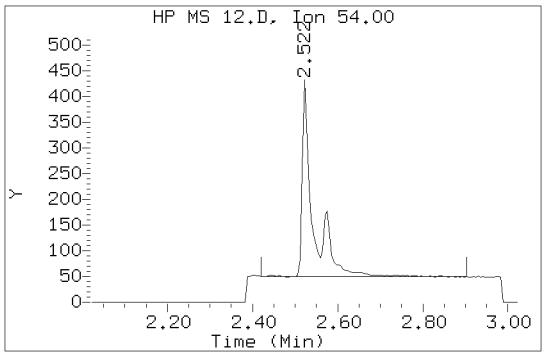
AFTER
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
13:49



BEFORE
MASS
54
AREA
669
HEIGHT
432
21-Jun-2024
15:37
ALSHS
Server



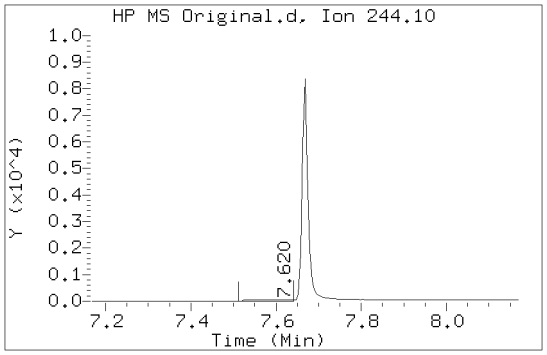
AFTER
MASS
54
AREA
670
HEIGHT
382
22-Jun-2024
13:49



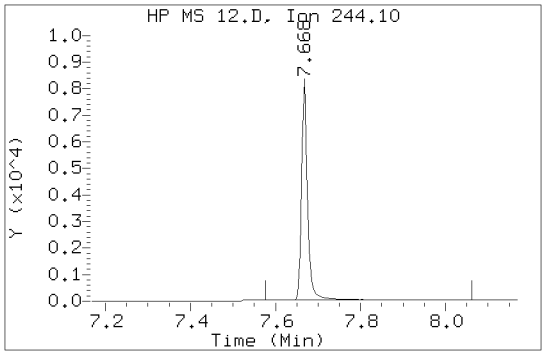
4-Terphenyl-d14 (1718-51-0)

Reason Code:

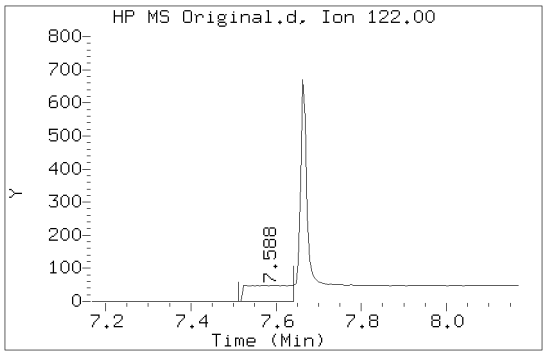
BEFORE
MASS
244.1
AREA
334
HEIGHT
46
21-Jun-2024
15:37
ALSHS
Server



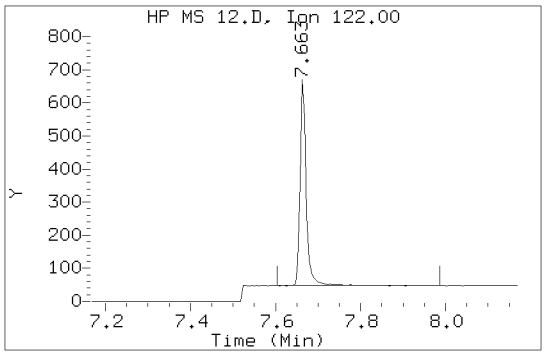
AFTER
MASS
244.1
AREA
8205
HEIGHT
8321
22-Jun-2024
13:49



BEFORE
MASS
122
AREA
354
HEIGHT
49
21-Jun-2024
15:37
ALSHS
Server



AFTER
MASS
122
AREA
628
HEIGHT
622
22-Jun-2024
13:49



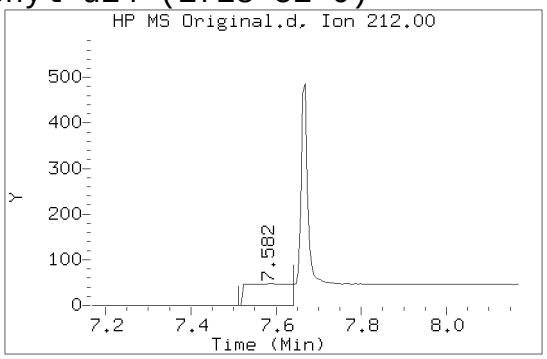
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Inj Date : 21-JUN-2024 15:21
InstruID : SV6.i
LabSampID : LCS1-213652

4-Terphenyl-d14 (1718-51-0)

Reason Code:

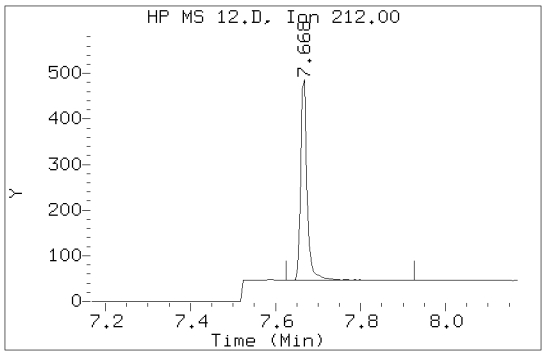
BEFORE

MASS
212
AREA
347
HEIGHT
48
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
212
AREA
472
HEIGHT
439
22-Jun-2024
13:49

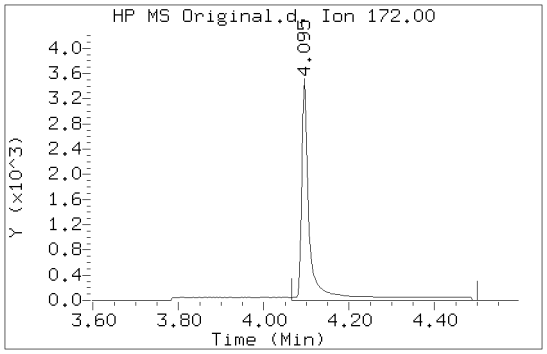


2-Fluorobiphenyl (321-60-8)

Reason Code:

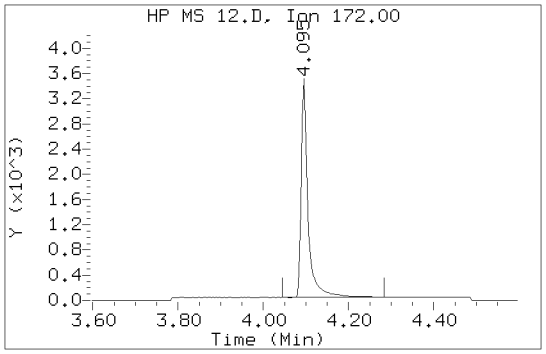
BEFORE

MASS
172
AREA
5080
HEIGHT
3518
21-Jun-2024
15:37
ALSHS
Server



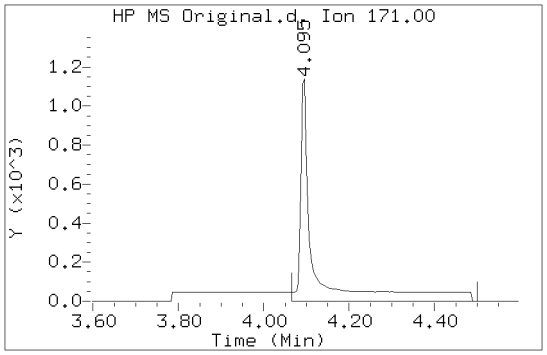
AFTER

MASS
172
AREA
3786
HEIGHT
3470
22-Jun-2024
13:49



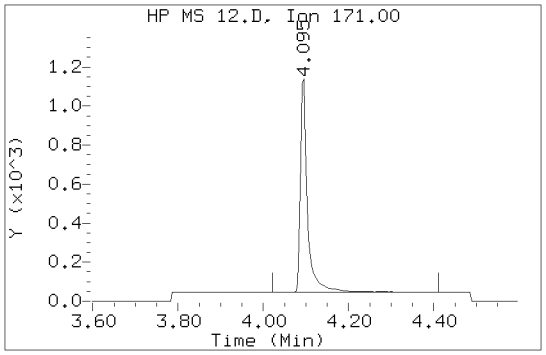
BEFORE

MASS
171
AREA
2450
HEIGHT
1139
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
171
AREA
1261
HEIGHT
1093
22-Jun-2024
13:49



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\13.D Page 1
Report Date: 22-Jun-2024 13:50

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\13.D
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Inj Date : 21-JUN-2024 15:39
Operator : LG Inst ID: SV6.i
Smp Info : LCSD1-213652
Misc Info :
Comment :
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Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.113	2.113	(1.000)	2300	0.10000		(aQ)
* 45 Naphthalene-d8	136	3.103	3.106	(1.000)	4598	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.814)	962	0.06969	0.06969	(M)
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	2809	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	3218	0.07494	0.07494	(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	5391	0.10000		(M)
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	4781	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	7707	0.07913	0.07913	(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	4656	0.10000		
1 1,4-Dioxane	58	0.856	0.842	(0.405)	437	0.08870	0.08870	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\13.D

Date : 21-JUN-2024 15:39

Client ID:

Instrument: SV6.i

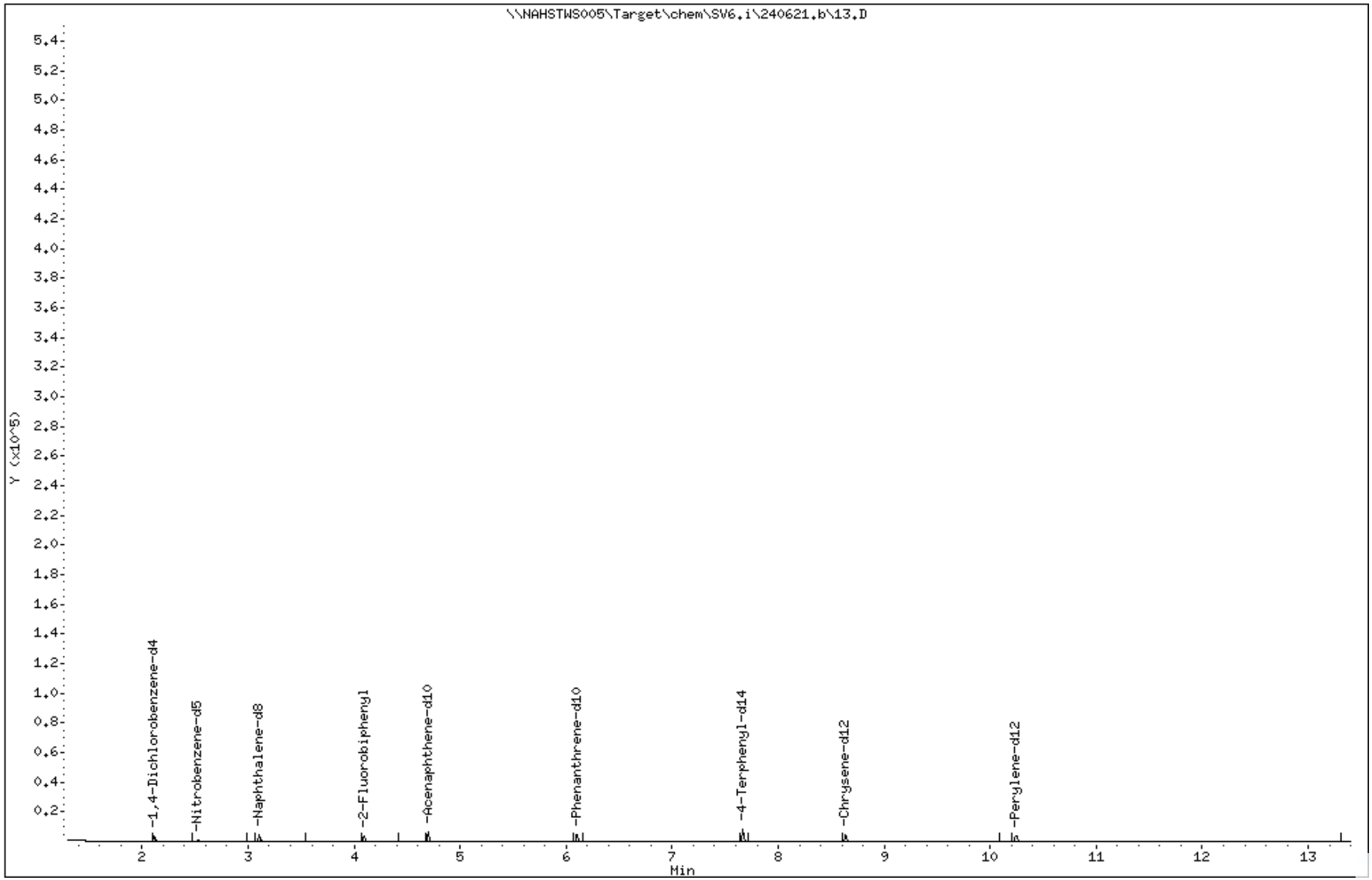
Sample Info: LCSD1-213652

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\13.D Page 2

Date : 21-JUN-2024 15:39

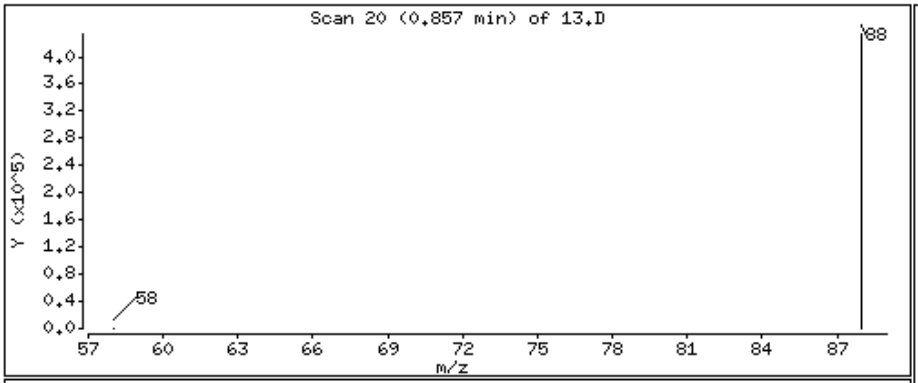
Client ID: Instrument: SV6.i

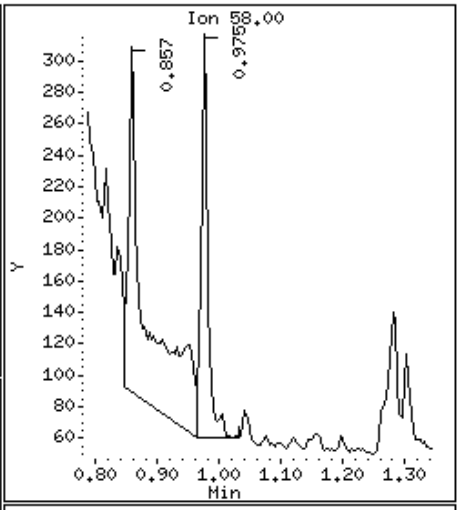
Sample Info: LCSD1-213652

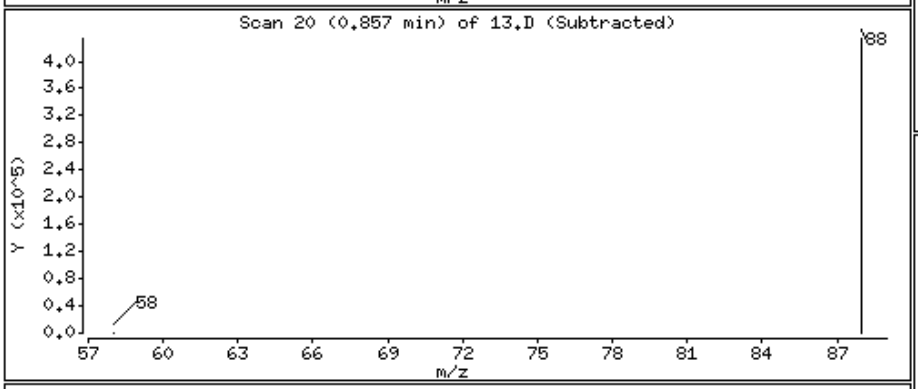
Purge Volume: 1000.0 Operator: LG

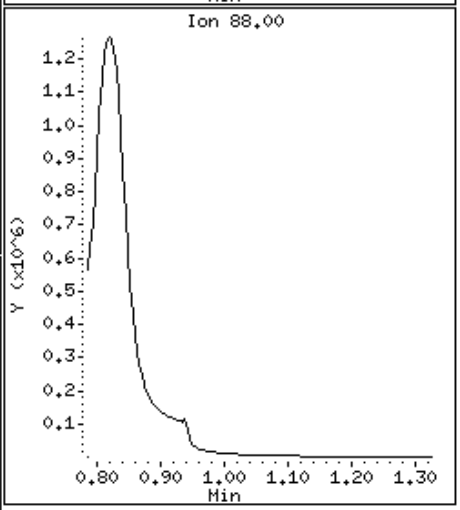
Column phase: RTX-5SIL MS Column diameter: 0.28

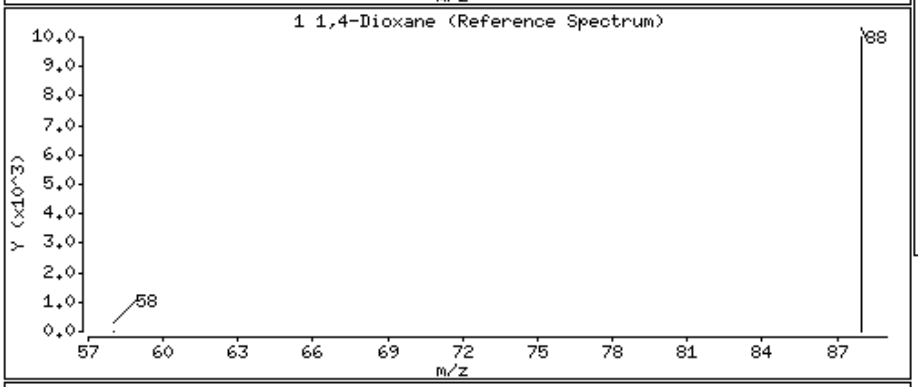
1 1,4-Dioxane Concentration: 0.08870 ug/L

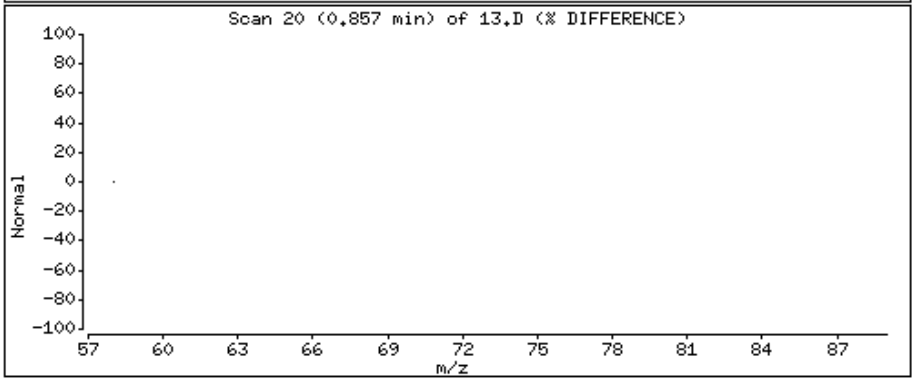










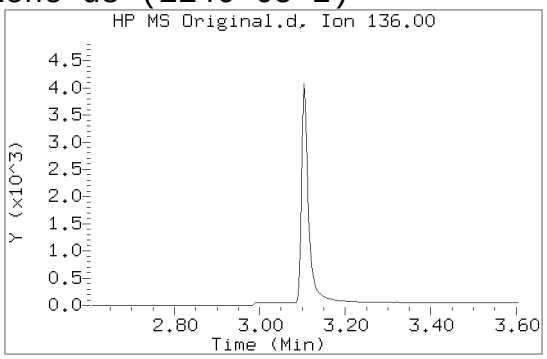


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\13.D
Inj Date : 21-JUN-2024 15:39
InstruID : SV6.i
LabSampID : LCSD1-213652

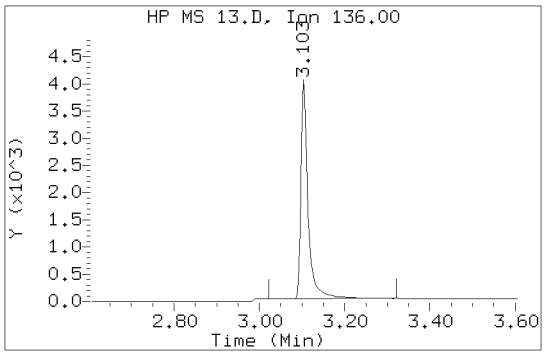
Naphthalene-d8 (1146-65-2)

Reason Code: MBA

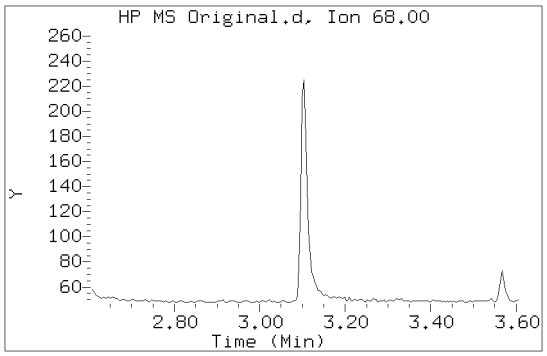
BEFORE
MASS
136
AREA
0
HEIGHT
0
21-Jun-2024
15:57
ALSHS
Server



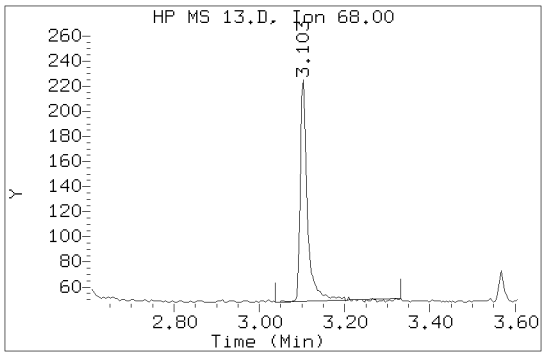
AFTER
MASS
136
AREA
4598
HEIGHT
4028
22-Jun-2024
13:50



BEFORE
MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
15:57
ALSHS
Server



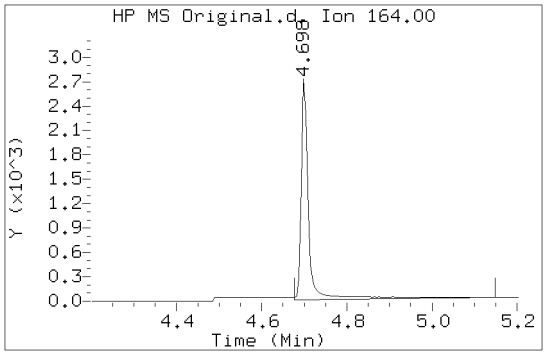
AFTER
MASS
68
AREA
197
HEIGHT
176
22-Jun-2024
13:50



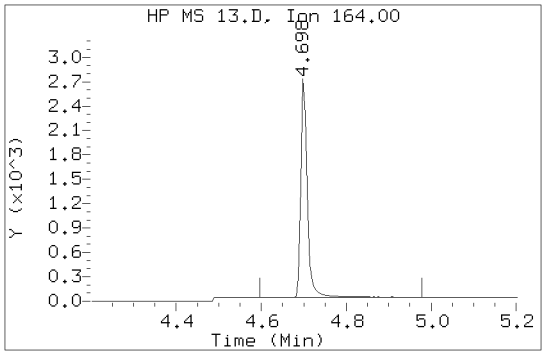
Acenaphthene-d10 (15067-26-2)

Reason Code:

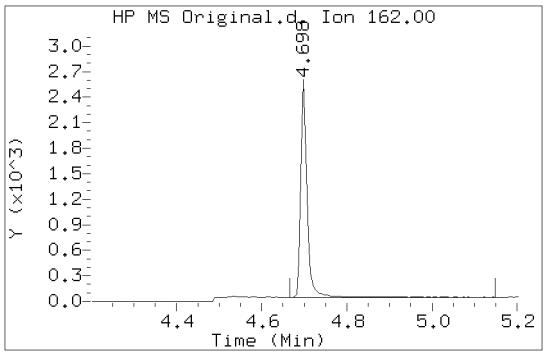
BEFORE
MASS
164
AREA
3328
HEIGHT
2719
21-Jun-2024
15:57
ALSHS
Server



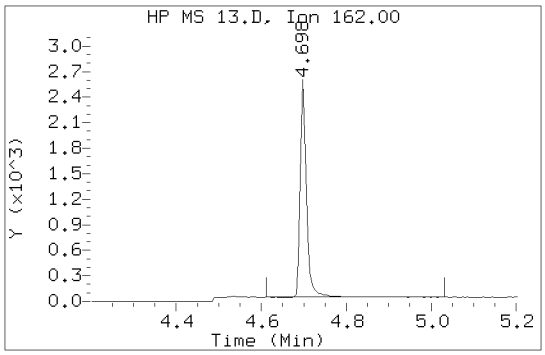
AFTER
MASS
164
AREA
2809
HEIGHT
2686
22-Jun-2024
13:50



BEFORE
MASS
162
AREA
2604
HEIGHT
2557
21-Jun-2024
15:57
ALSHS
Server



AFTER
MASS
162
AREA
2577
HEIGHT
2556
22-Jun-2024
13:50



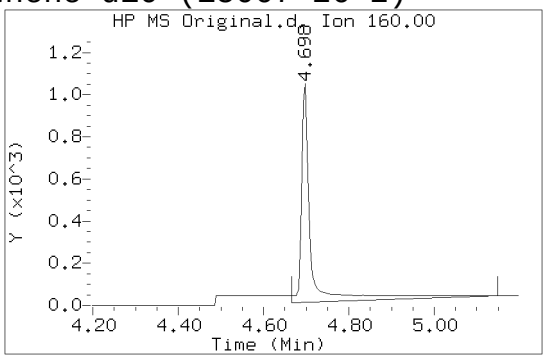
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Inj Date : 21-JUN-2024 15:39
InstruID : SV6.i
LabSampID : LCSD1-213652

Acenaphthene-d10 (15067-26-2)

Reason Code:

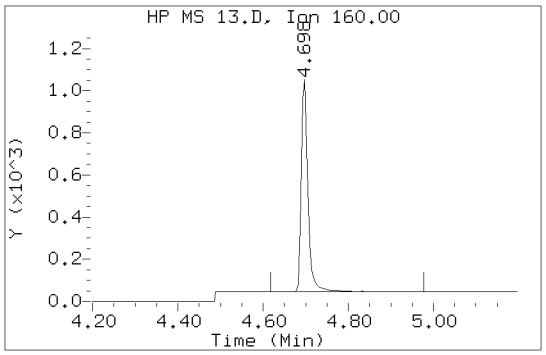
BEFORE

MASS
160
AREA
1605
HEIGHT
1037
21-Jun-2024
15:57
ALSHS
Server



AFTER

MASS
160
AREA
1102
HEIGHT
1006
22-Jun-2024
13:50

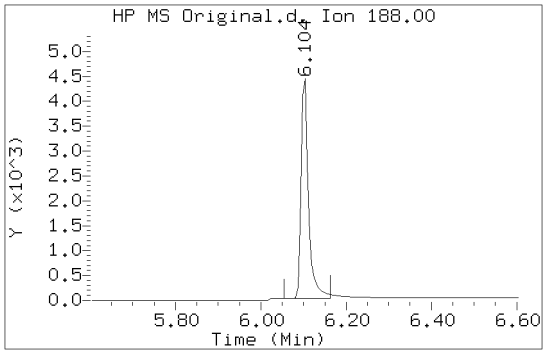


Phenanthrene-d10 (1517-22-2)

Reason Code:

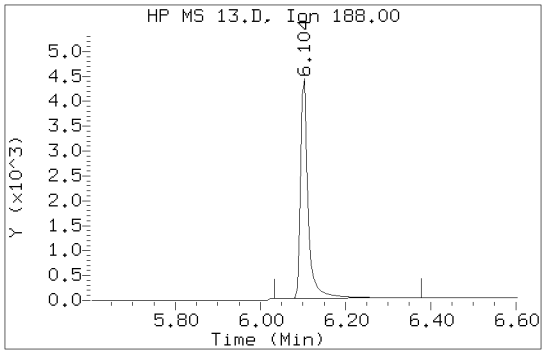
BEFORE

MASS
188
AREA
5234
HEIGHT
4409
21-Jun-2024
15:57
ALSHS
Server



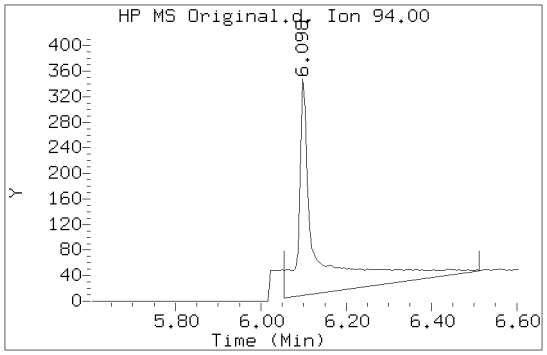
AFTER

MASS
188
AREA
5391
HEIGHT
4407
22-Jun-2024
13:50



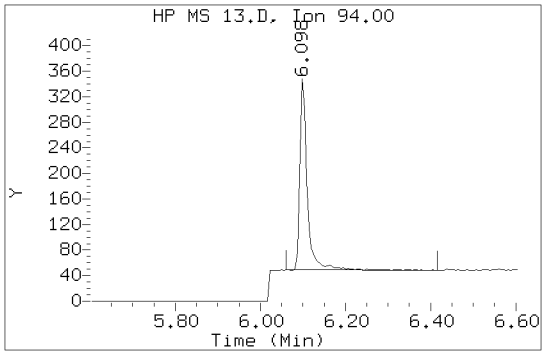
BEFORE

MASS
94
AREA
978
HEIGHT
339
21-Jun-2024
15:57
ALSHS
Server



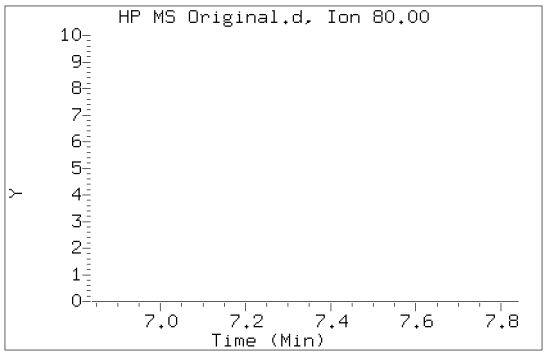
AFTER

MASS
94
AREA
355
HEIGHT
299
22-Jun-2024
13:50



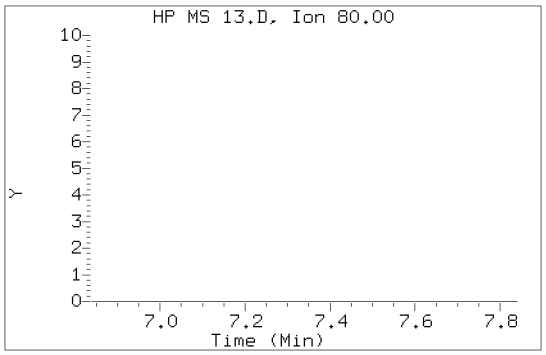
BEFORE

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
15:57
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
13:50



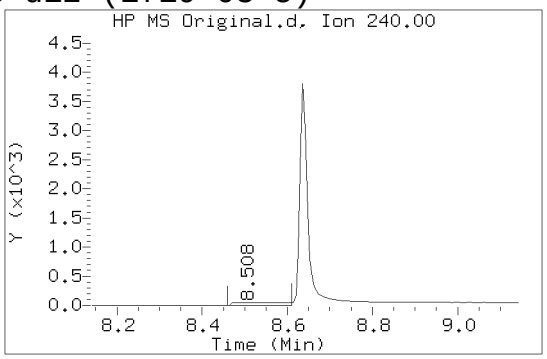
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\13.D
Inj Date : 21-JUN-2024 15:39
InstruID : SV6.i
LabSampID : LCSD1-213652

Chrysene-d12 (1719-03-5)

Reason Code:

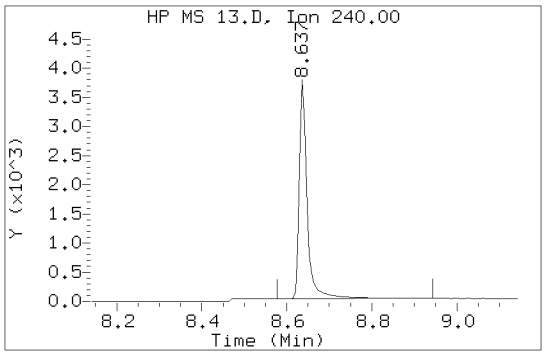
BEFORE

MASS
240
AREA
399
HEIGHT
47
21-Jun-2024
15:57
ALSHS
Server



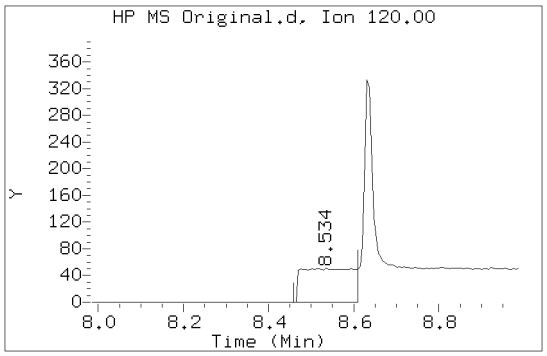
AFTER

MASS
240
AREA
4781
HEIGHT
3755
22-Jun-2024
13:50



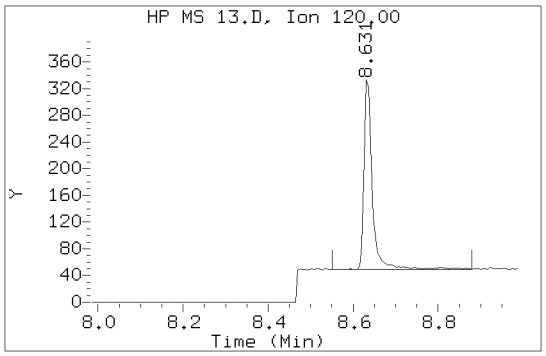
BEFORE

MASS
120
AREA
428
HEIGHT
51
21-Jun-2024
15:57
ALSHS
Server



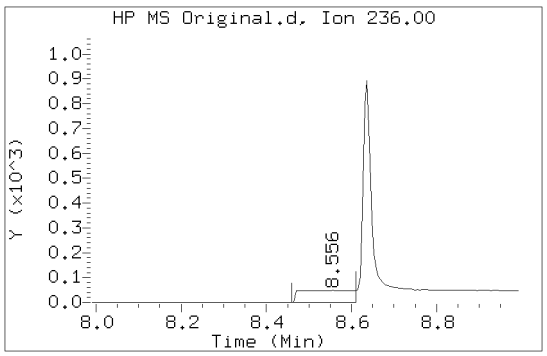
AFTER

MASS
120
AREA
389
HEIGHT
284
22-Jun-2024
13:50



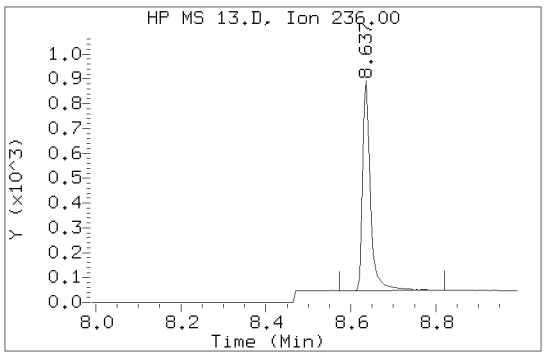
BEFORE

MASS
236
AREA
406
HEIGHT
48
21-Jun-2024
15:57
ALSHS
Server



AFTER

MASS
236
AREA
1086
HEIGHT
845
22-Jun-2024
13:50

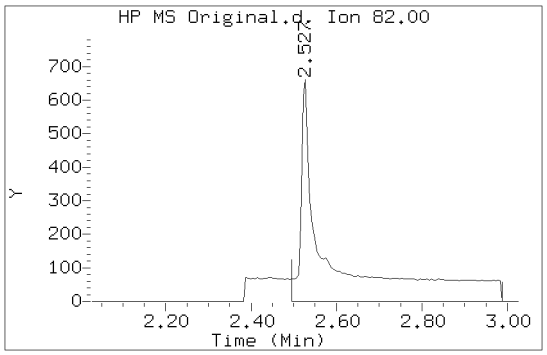


Nitrobenzene-d5 (4165-60-0)

Reason Code:

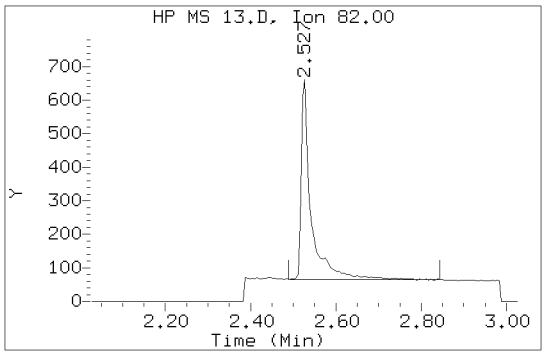
BEFORE

MASS
82
AREA
2869
HEIGHT
661
21-Jun-2024
15:57
ALSHS
Server



AFTER

MASS
82
AREA
962
HEIGHT
596
22-Jun-2024
13:50

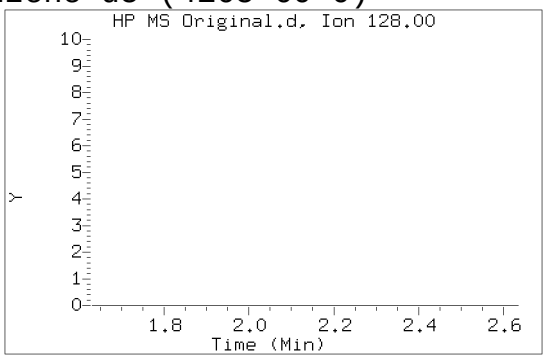


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\13.D
Inj Date : 21-JUN-2024 15:39
InstruID : SV6.i
LabSampID : LCSD1-213652

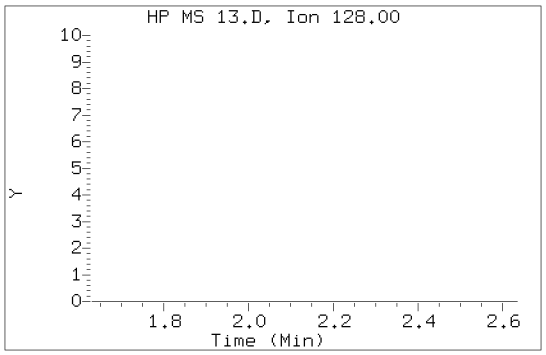
Nitrobenzene-d5 (4165-60-0)

Reason Code:

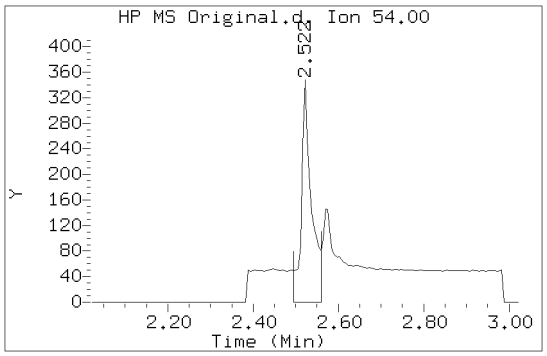
BEFORE
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
15:57
ALSHS
Server



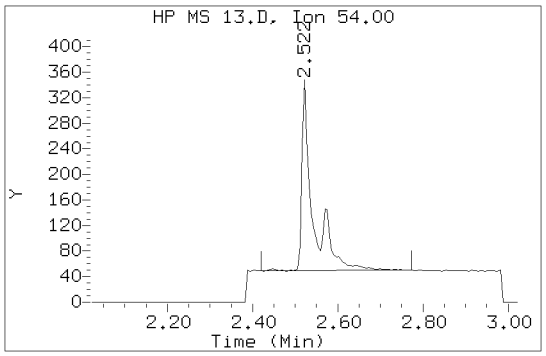
AFTER
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
13:50



BEFORE
MASS
54
AREA
579
HEIGHT
348
21-Jun-2024
15:57
ALSHS
Server



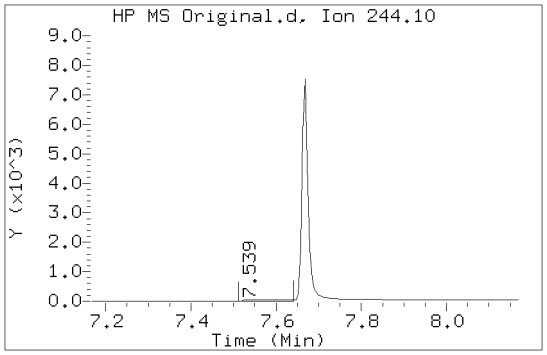
AFTER
MASS
54
AREA
539
HEIGHT
298
22-Jun-2024
13:50



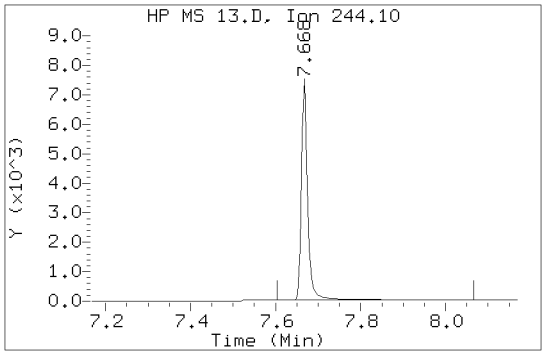
4-Terphenyl-d14 (1718-51-0)

Reason Code:

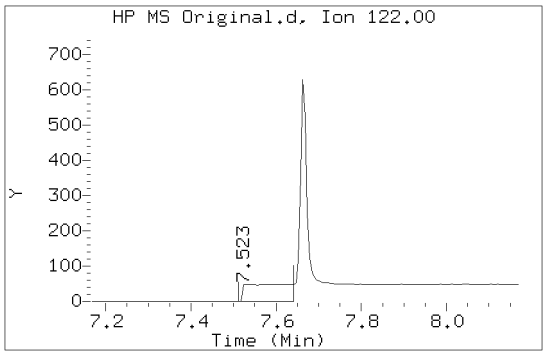
BEFORE
MASS
244.1
AREA
334
HEIGHT
46
21-Jun-2024
15:57
ALSHS
Server



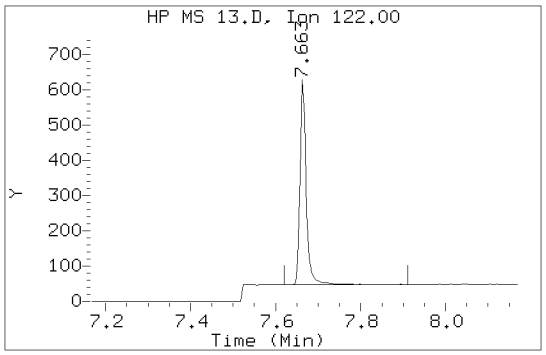
AFTER
MASS
244.1
AREA
7707
HEIGHT
7495
22-Jun-2024
13:50



BEFORE
MASS
122
AREA
350
HEIGHT
48
21-Jun-2024
15:57
ALSHS
Server



AFTER
MASS
122
AREA
598
HEIGHT
581
22-Jun-2024
13:50



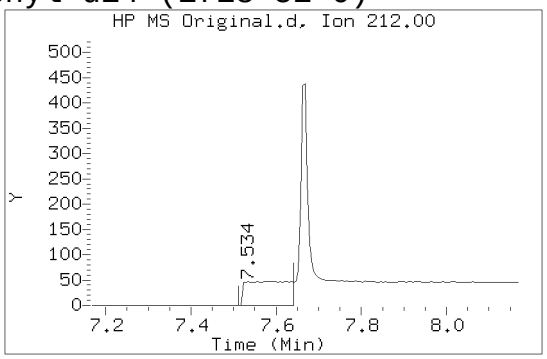
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Inj Date : 21-JUN-2024 15:39
InstruID : SV6.i
LabSampID : LCSD1-213652

4-Terphenyl-d14 (1718-51-0)

Reason Code:

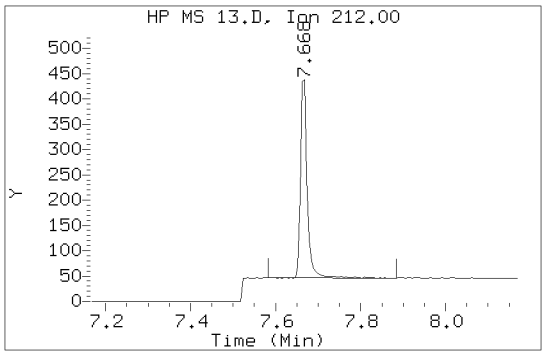
BEFORE

MASS
212
AREA
345
HEIGHT
47
21-Jun-2024
15:57
ALSHS
Server



AFTER

MASS
212
AREA
434
HEIGHT
391
22-Jun-2024
13:50

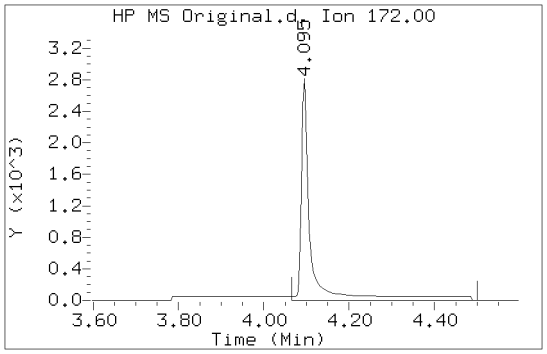


2-Fluorobiphenyl (321-60-8)

Reason Code:

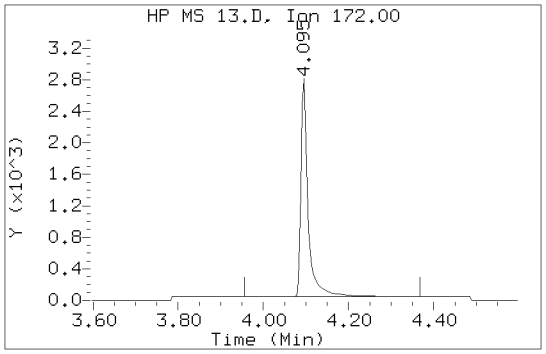
BEFORE

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4450
HEIGHT
2814
21-Jun-2024
15:57
ALSHS
Server



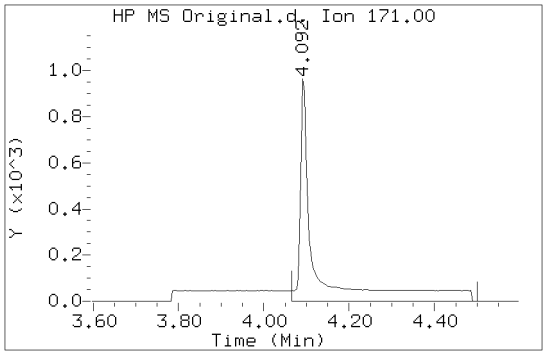
AFTER

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HEIGHT
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22-Jun-2024
13:50



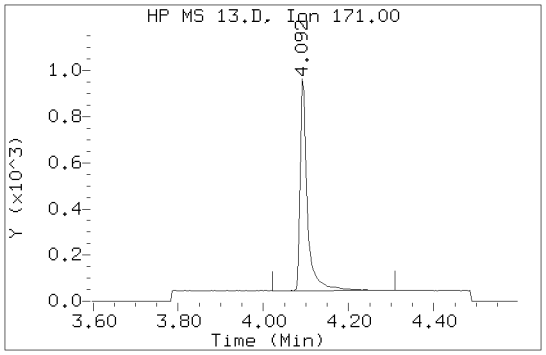
BEFORE

MASS
171
AREA
2259
HEIGHT
964
21-Jun-2024
15:57
ALSHS
Server



AFTER

MASS
171
AREA
1069
HEIGHT
918
22-Jun-2024
13:50



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\18.D Page 1
Report Date: 22-Jun-2024 14:03

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\18.D
Lab Smp Id: HS24060795-02
Inj Date : 21-JUN-2024 17:16
Operator : LG Inst ID: SV6.i
Smp Info : HS24060795-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.119	2.113	(1.000)	3071	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.106	3.106	(1.000)	7019	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.813)	1394	0.06616	0.06616(M)
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	4339	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	4291	0.06469	0.06469(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	8489	0.10000	
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	8106	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	7684	0.04653	0.04653(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	8442	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\18.D

Date : 21-JUN-2024 17:16

Client ID:

Instrument: SV6.i

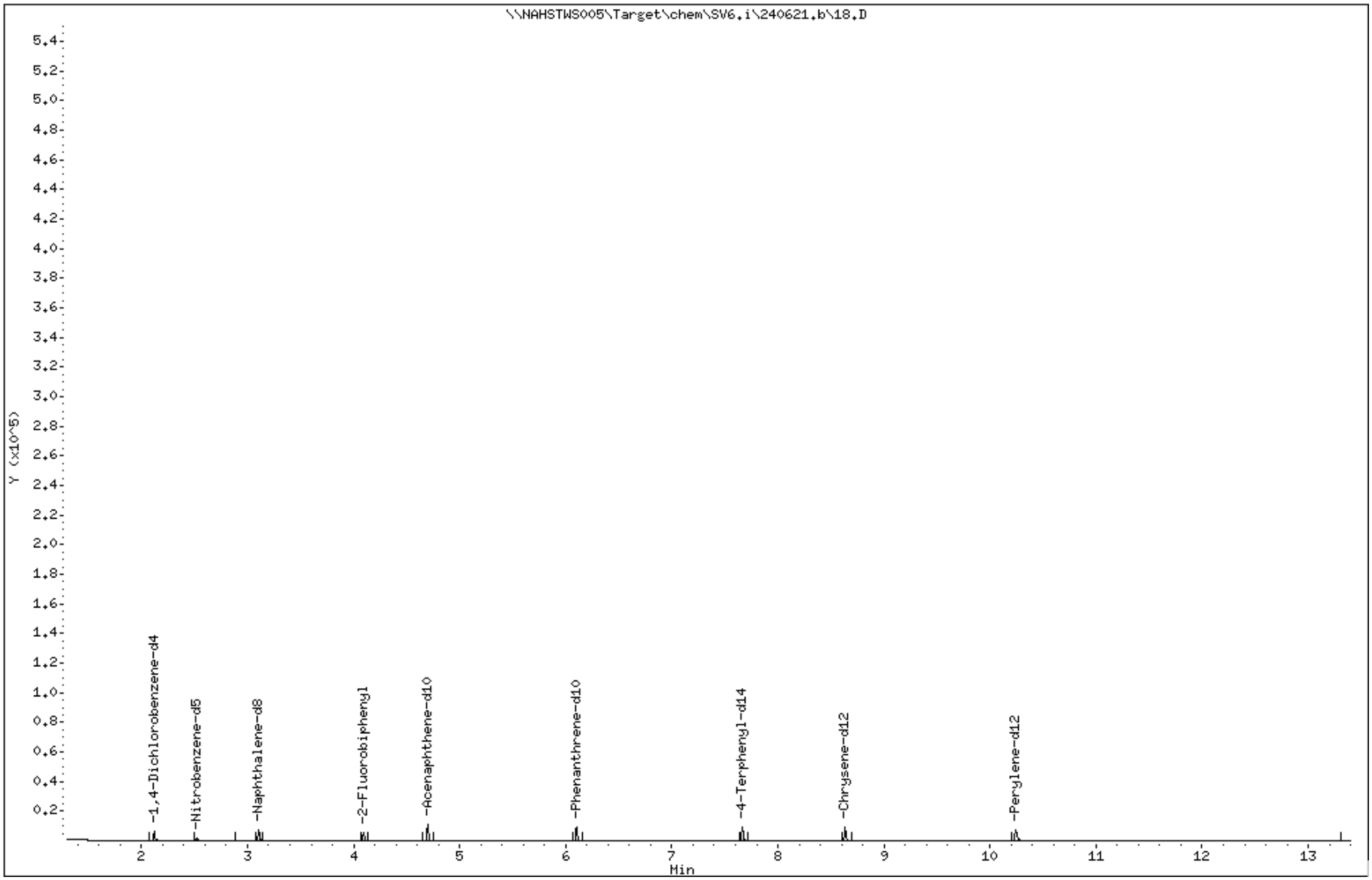
Sample Info: HS24060795-02

Purge Volume: 1000.0

Operator: LC

Column phase: RTX-5SIL MS

Column diameter: 0.28

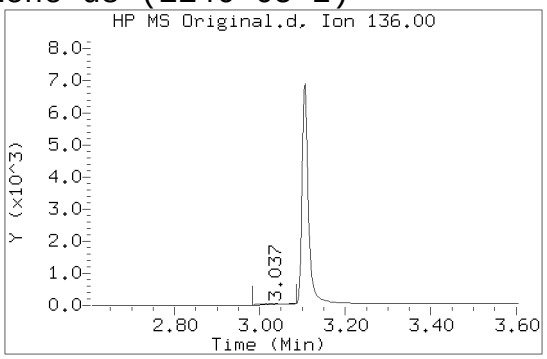


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\18.D
Inj Date : 21-JUN-2024 17:16
InstruID : SV6.i
LabSampID : HS24060795-02

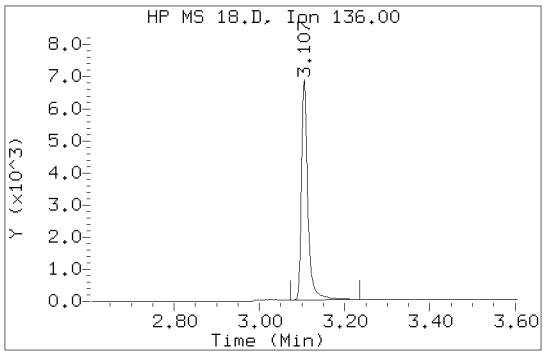
Naphthalene-d8 (1146-65-2)

Reason Code:

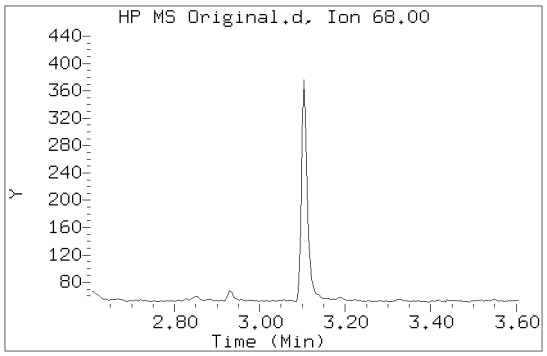
BEFORE
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136
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137
HEIGHT
24
21-Jun-2024
17:43
ALSHS
Server



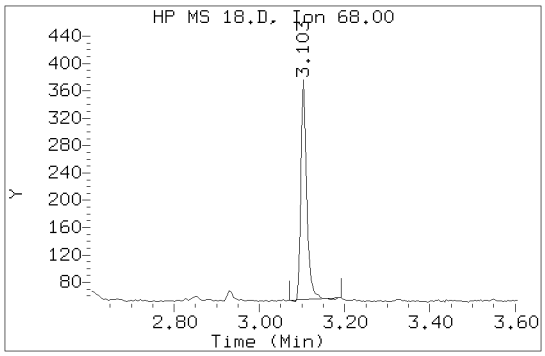
AFTER
MASS
136
AREA
7019
HEIGHT
6855
22-Jun-2024
14:03



BEFORE
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AREA
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HEIGHT
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21-Jun-2024
17:43
ALSHS
Server



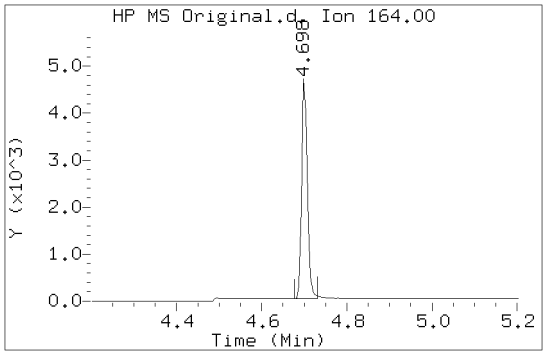
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HEIGHT
320
22-Jun-2024
14:03



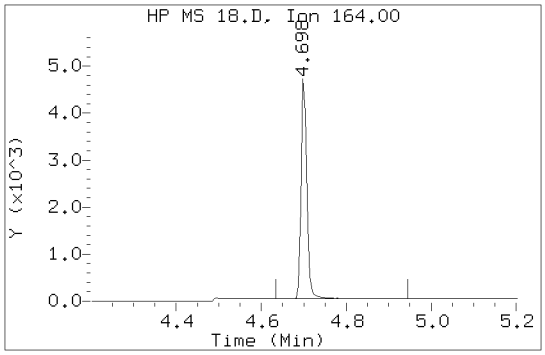
Acenaphthene-d10 (15067-26-2)

Reason Code:

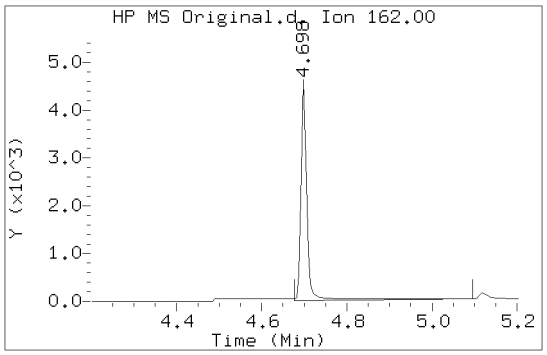
BEFORE
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164
AREA
4263
HEIGHT
4678
21-Jun-2024
17:43
ALSHS
Server



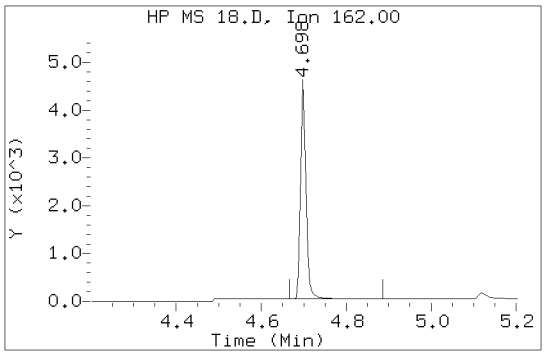
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MASS
164
AREA
4339
HEIGHT
4676
22-Jun-2024
14:03



BEFORE
MASS
162
AREA
4476
HEIGHT
4619
21-Jun-2024
17:43
ALSHS
Server



AFTER
MASS
162
AREA
4003
HEIGHT
4586
22-Jun-2024
14:03



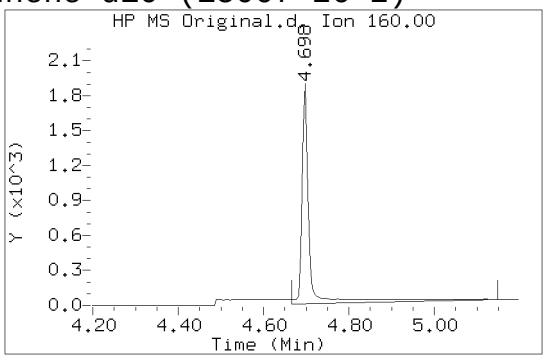
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Inj Date : 21-JUN-2024 17:16
InstruID : SV6.i
LabSampID : HS24060795-02

Acenaphthene-d10 (15067-26-2)

Reason Code:

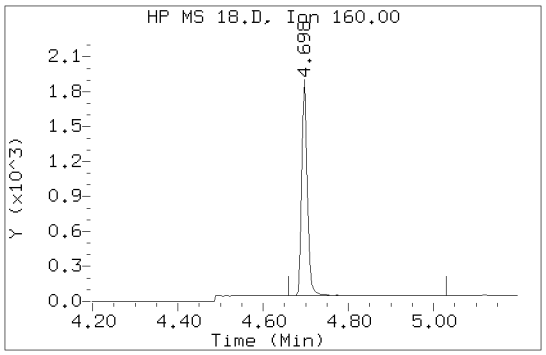
BEFORE

MASS
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AREA
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HEIGHT
1887
21-Jun-2024
17:43
ALSHS
Server



AFTER

MASS
160
AREA
1716
HEIGHT
1855
22-Jun-2024
14:03

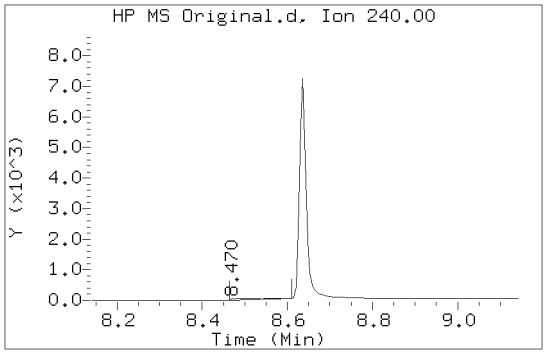


Chrysene-d12 (1719-03-5)

Reason Code:

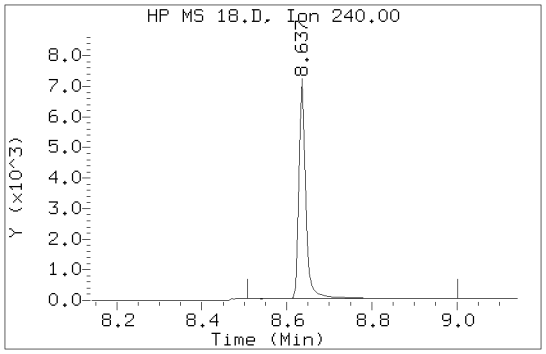
BEFORE

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AREA
221
HEIGHT
52
21-Jun-2024
17:43
ALSHS
Server



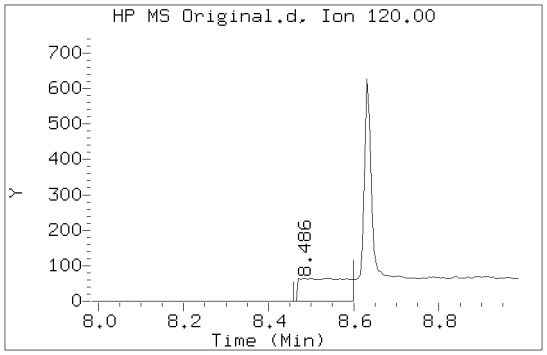
AFTER

MASS
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AREA
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HEIGHT
7195
22-Jun-2024
14:03



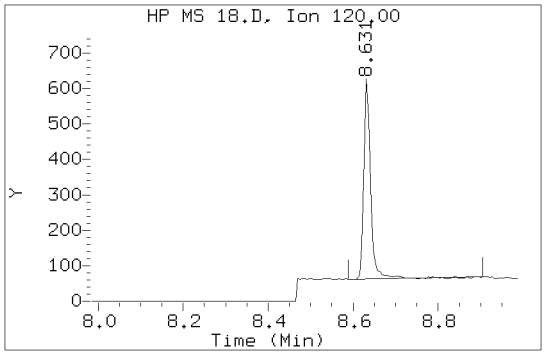
BEFORE

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AREA
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HEIGHT
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21-Jun-2024
17:43
ALSHS
Server



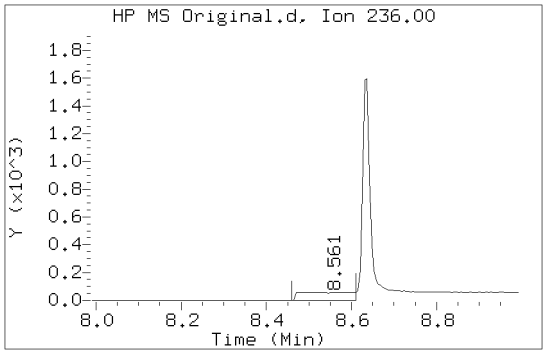
AFTER

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AREA
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HEIGHT
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22-Jun-2024
14:03



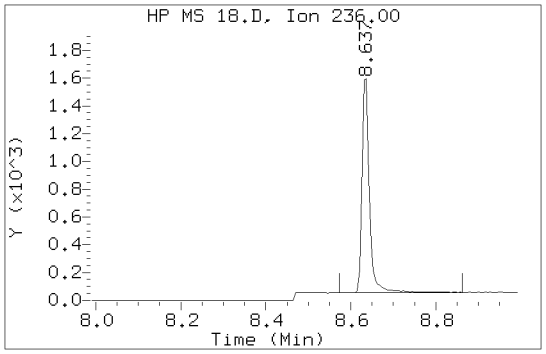
BEFORE

MASS
236
AREA
480
HEIGHT
57
21-Jun-2024
17:43
ALSHS
Server



AFTER

MASS
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AREA
1866
HEIGHT
1540
22-Jun-2024
14:03

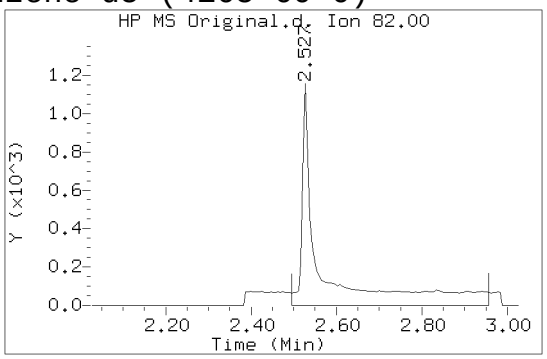


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\18.D
Inj Date : 21-JUN-2024 17:16
InstruID : SV6.i
LabSampID : HS24060795-02

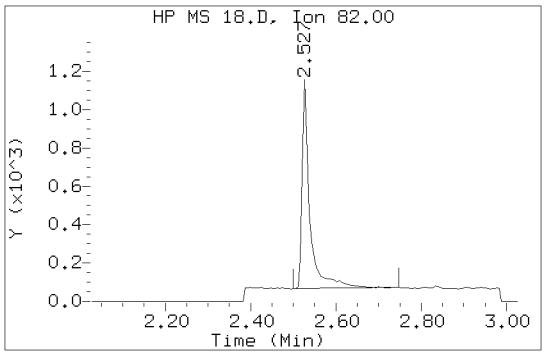
Nitrobenzene-d5 (4165-60-0)

Reason Code:

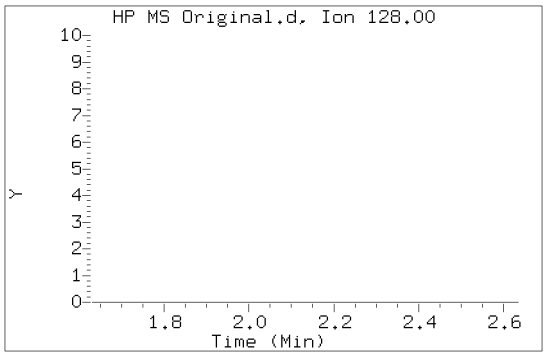
BEFORE
MASS
82
AREA
3331
HEIGHT
1156
21-Jun-2024
17:43
ALSHS
Server



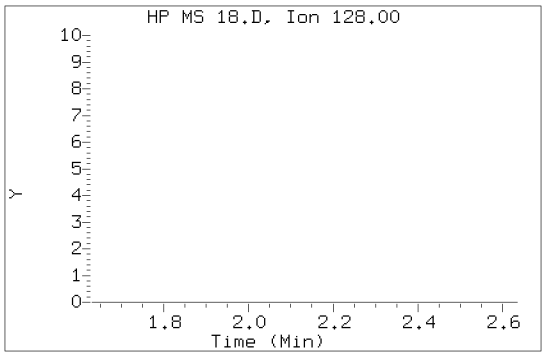
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1089
22-Jun-2024
14:03



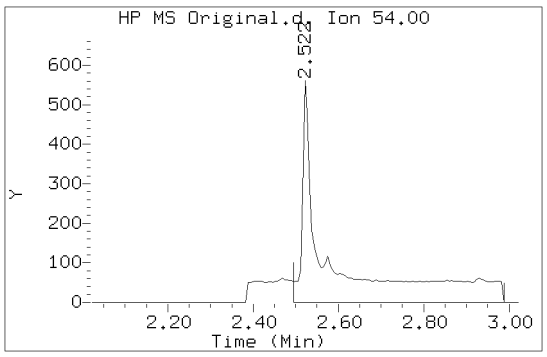
BEFORE
MASS
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AREA
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HEIGHT
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21-Jun-2024
17:43
ALSHS
Server



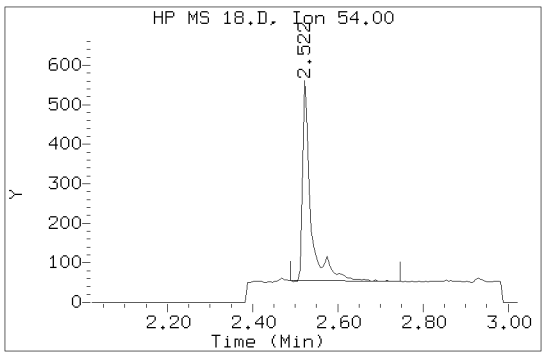
AFTER
MASS
128
AREA
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HEIGHT
0
22-Jun-2024
14:03



BEFORE
MASS
54
AREA
2278
HEIGHT
561
21-Jun-2024
17:43
ALSHS
Server



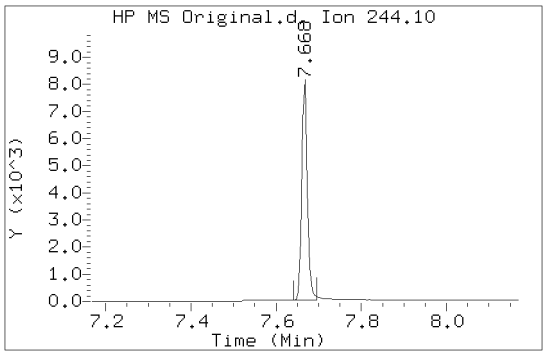
AFTER
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AREA
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HEIGHT
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22-Jun-2024
14:03



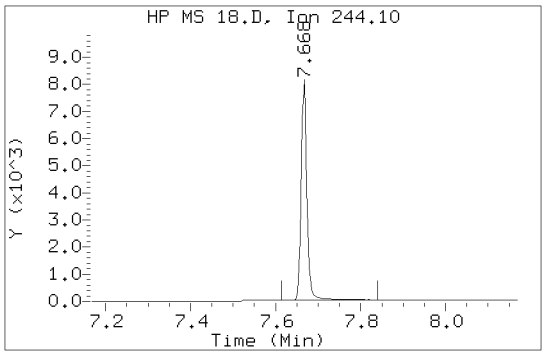
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
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HEIGHT
8121
21-Jun-2024
17:43
ALSHS
Server



AFTER
MASS
244.1
AREA
7684
HEIGHT
8121
22-Jun-2024
14:03



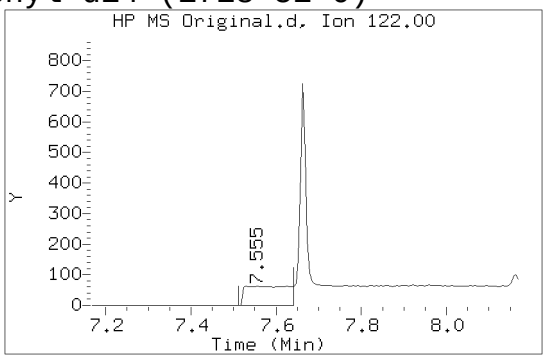
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\18.D
Inj Date : 21-JUN-2024 17:16
InstruID : SV6.i
LabSampID : HS24060795-02

4-Terphenyl-d14 (1718-51-0)

Reason Code:

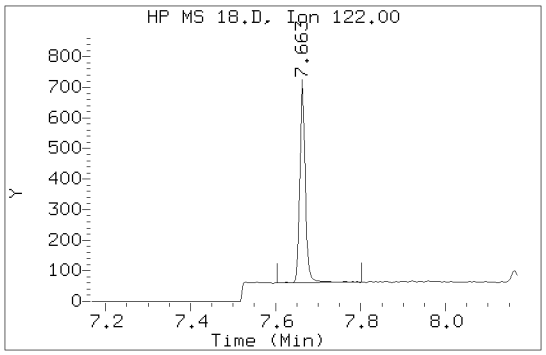
BEFORE

MASS
122
AREA
449
HEIGHT
63
21-Jun-2024
17:43
ALSHS
Server



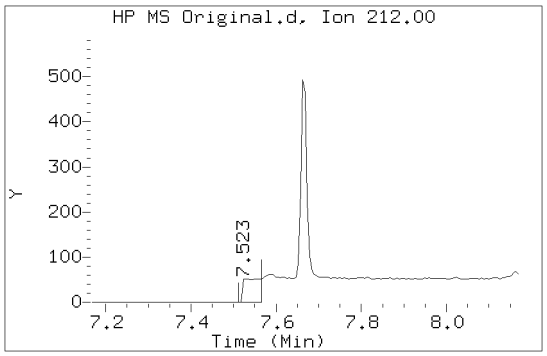
AFTER

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AREA
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HEIGHT
664
22-Jun-2024
14:03



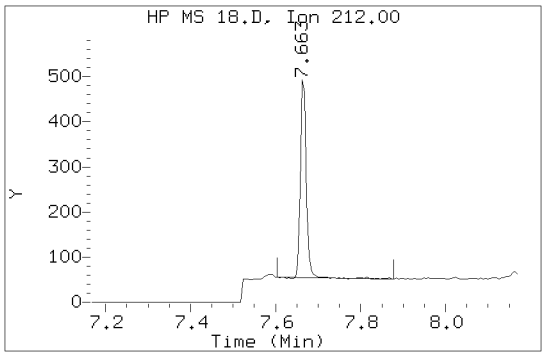
BEFORE

MASS
212
AREA
148
HEIGHT
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21-Jun-2024
17:43
ALSHS
Server



AFTER

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AREA
430
HEIGHT
438
22-Jun-2024
14:03

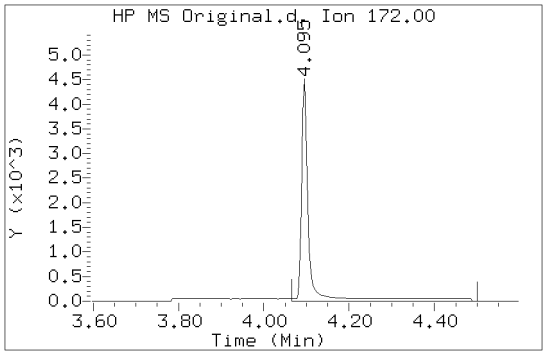


2-Fluorobiphenyl (321-60-8)

Reason Code:

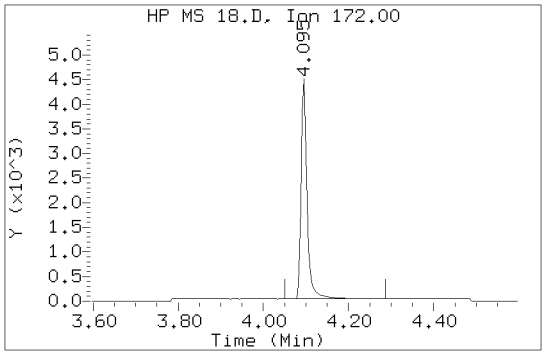
BEFORE

MASS
172
AREA
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HEIGHT
4514
21-Jun-2024
17:43
ALSHS
Server



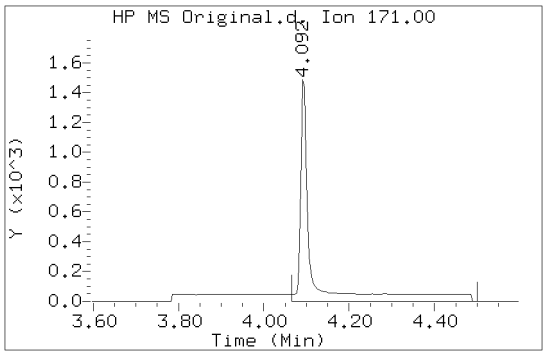
AFTER

MASS
172
AREA
4291
HEIGHT
4467
22-Jun-2024
14:03



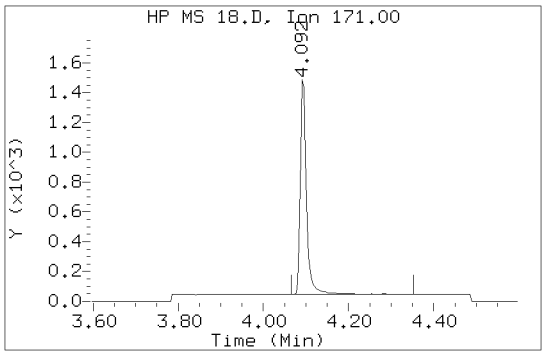
BEFORE

MASS
171
AREA
2660
HEIGHT
1487
21-Jun-2024
17:43
ALSHS
Server



AFTER

MASS
171
AREA
1432
HEIGHT
1439
22-Jun-2024
14:03



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\19.D Page 1
Report Date: 22-Jun-2024 14:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\19.D
Lab Smp Id: HS24060795-06
Inj Date : 21-JUN-2024 17:33
Operator : LG Inst ID: SV6.i
Smp Info : HS24060795-06
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.119	2.113	(1.000)	2841	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.106	3.106	(1.000)	6334	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.813)	1073	0.05643	0.05643(M)
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	3926	0.10000	
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	3681	0.06133	0.06133(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	7678	0.10000	(M)
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	7131	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	8547	0.05883	0.05883(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	7226	0.10000	
1 1,4-Dioxane	58	0.882	0.842	(0.417)	272	0.04470	0.04470(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\19.D

Date : 21-JUN-2024 17:33

Client ID:

Instrument: SV6.i

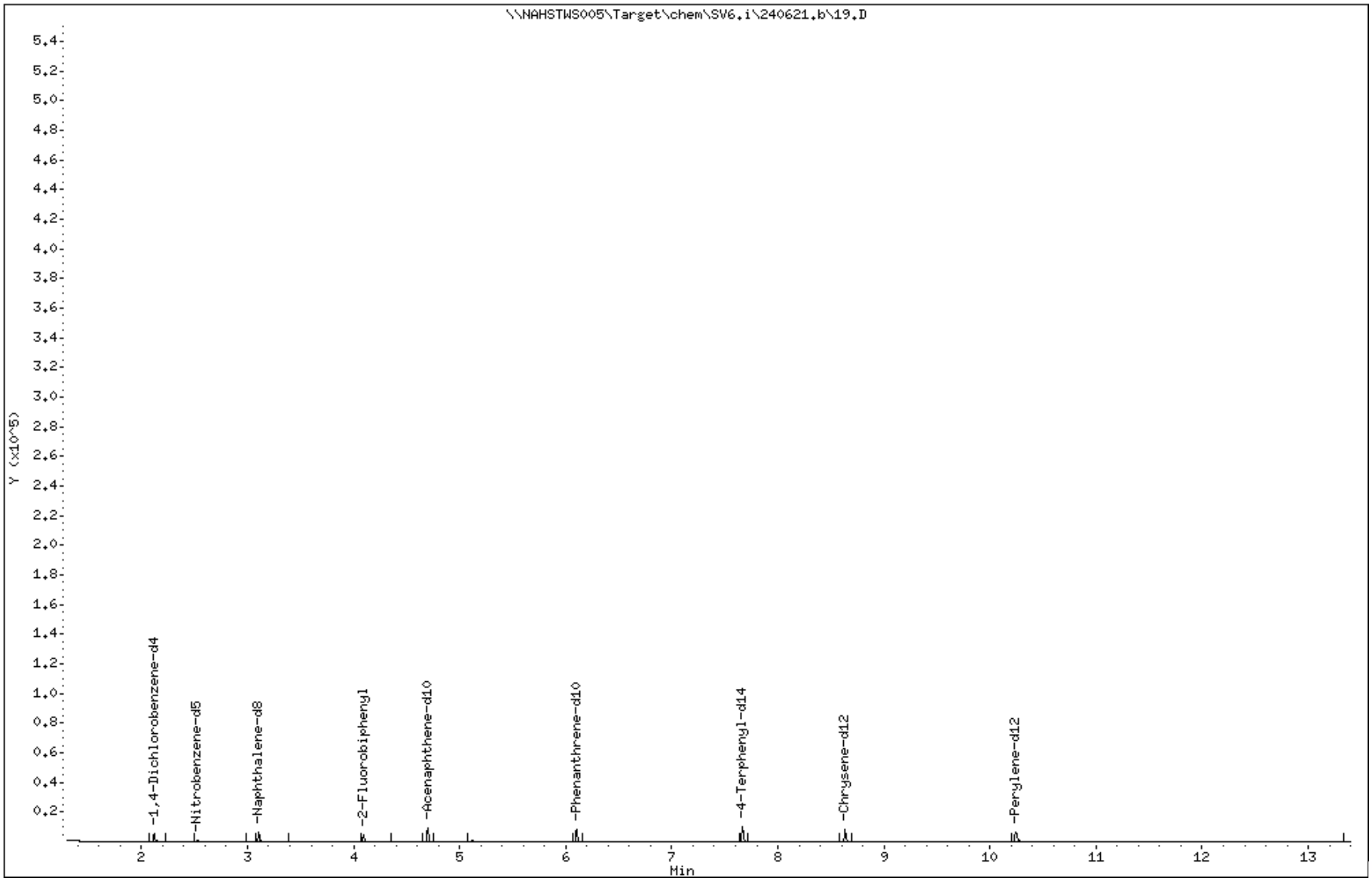
Sample Info: HS24060795-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\19.D

Date : 21-JUN-2024 17:33

Client ID:

Instrument: SV6.i

Sample Info: HS24060795-06

Purge Volume: 1000.0

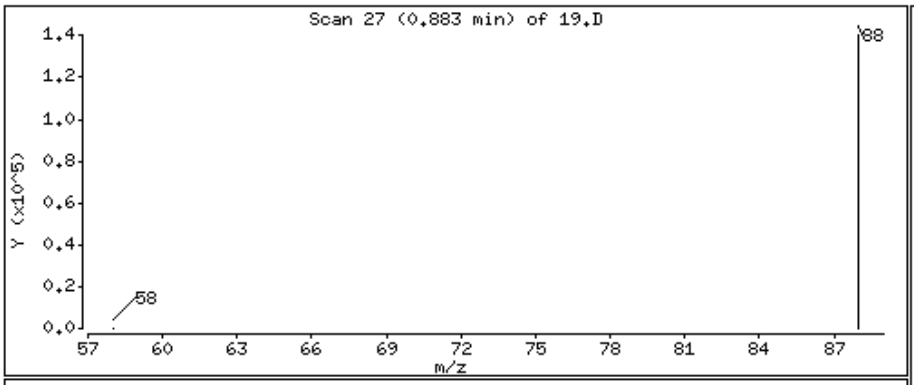
Operator: LG

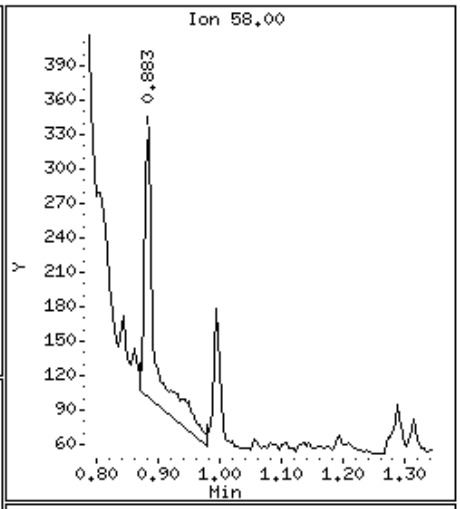
Column phase: RTX-5SIL MS

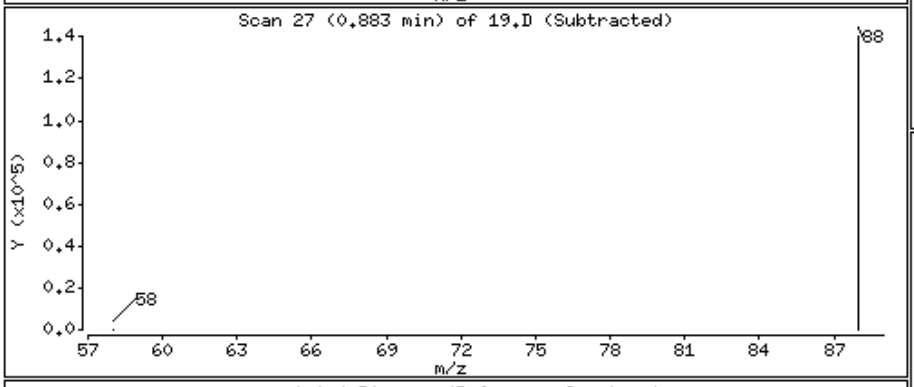
Column diameter: 0.28

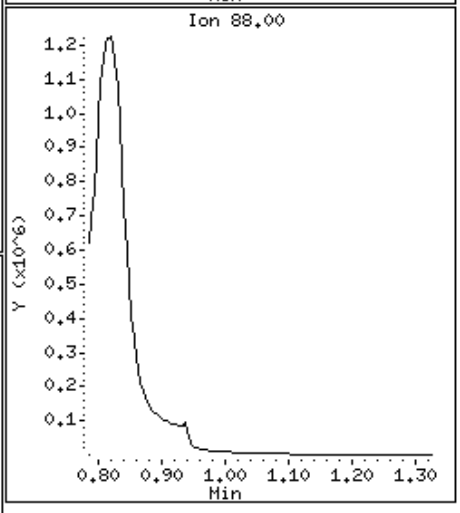
1 1,4-Dioxane

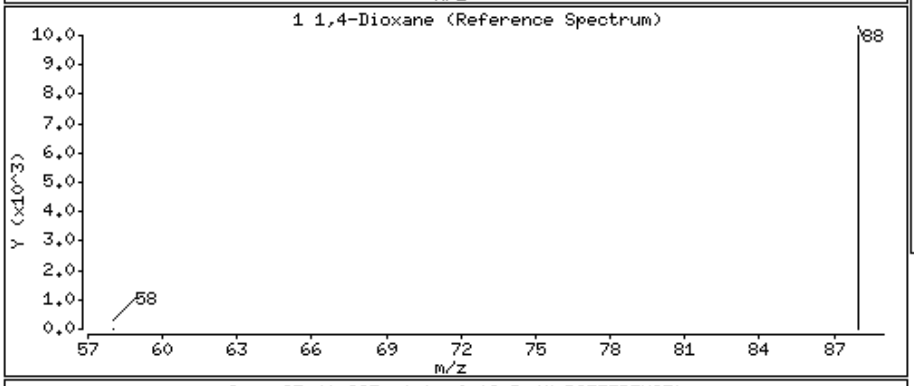
Concentration: 0.04470 ug/L

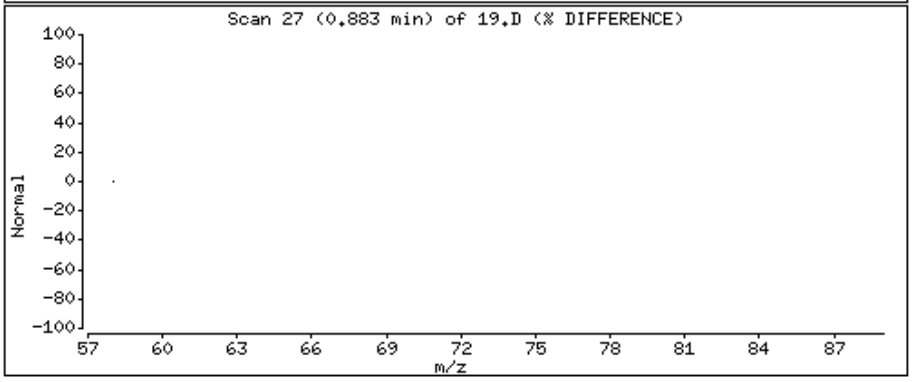












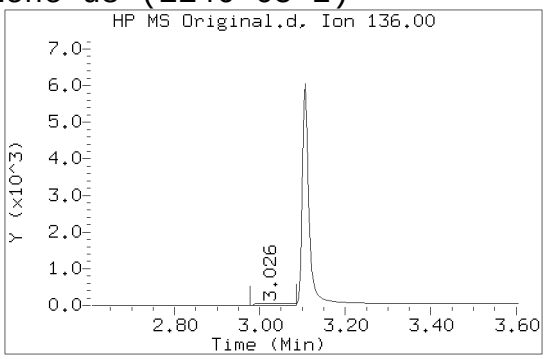
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Inj Date : 21-JUN-2024 17:33
InstruID : SV6.i
LabSampID : HS24060795-06

Naphthalene-d8 (1146-65-2)

Reason Code:

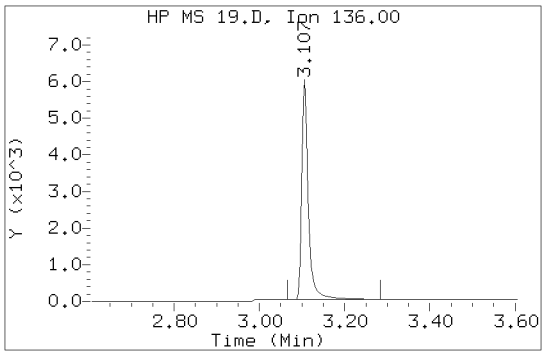
BEFORE

MASS
136
AREA
306
HEIGHT
54
21-Jun-2024
18:01
ALSHS
Server



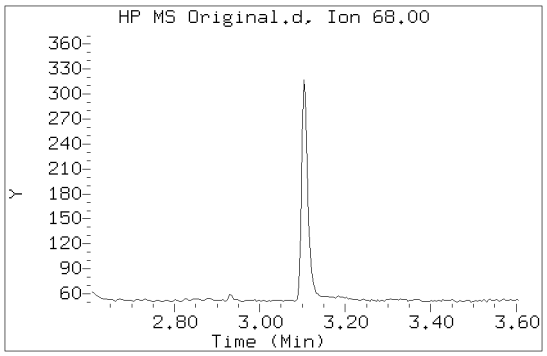
AFTER

MASS
136
AREA
6334
HEIGHT
6003
22-Jun-2024
14:06



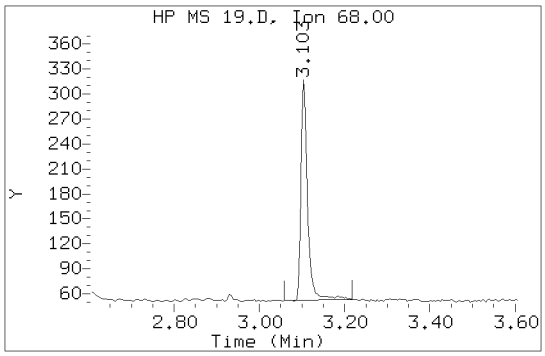
BEFORE

MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
18:01
ALSHS
Server



AFTER

MASS
68
AREA
282
HEIGHT
264
22-Jun-2024
14:06

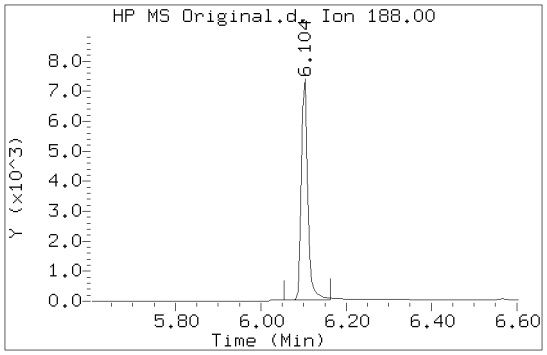


Phenanthrene-d10 (1517-22-2)

Reason Code:

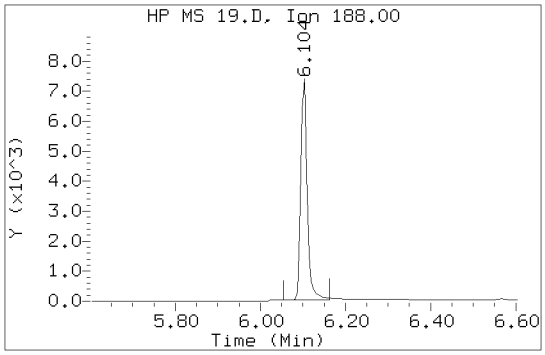
BEFORE

MASS
188
AREA
7678
HEIGHT
7368
21-Jun-2024
18:01
ALSHS
Server



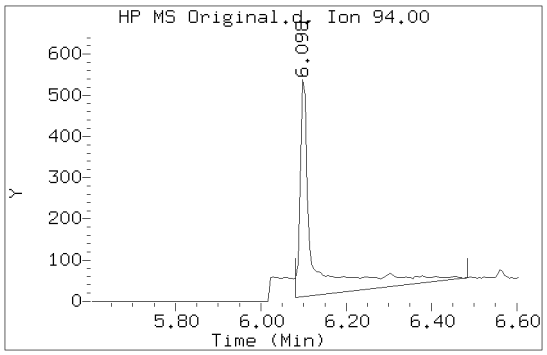
AFTER

MASS
188
AREA
7678
HEIGHT
7368
22-Jun-2024
14:06



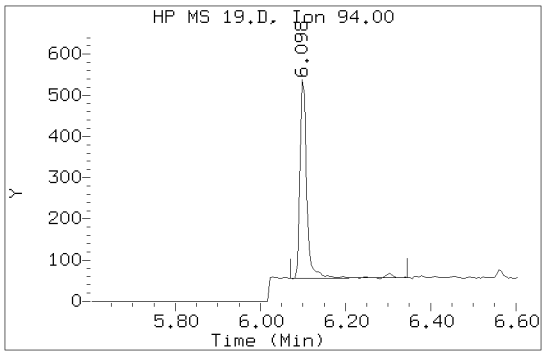
BEFORE

MASS
94
AREA
1126
HEIGHT
527
21-Jun-2024
18:01
ALSHS
Server



AFTER

MASS
94
AREA
526
HEIGHT
481
22-Jun-2024
14:06



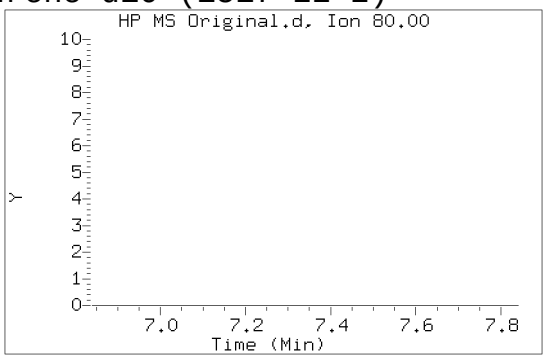
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Inj Date : 21-JUN-2024 17:33
InstruID : SV6.i
LabSampID : HS24060795-06

Phenanthrene-d10 (1517-22-2)

Reason Code:

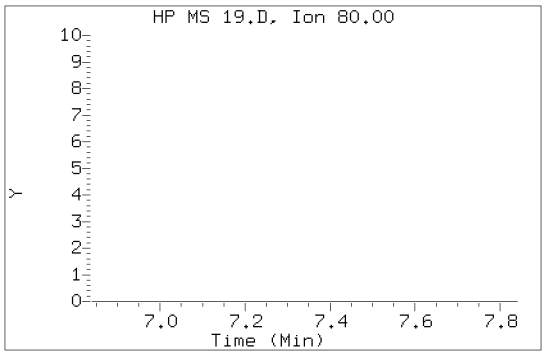
BEFORE

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
18:01
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
14:06

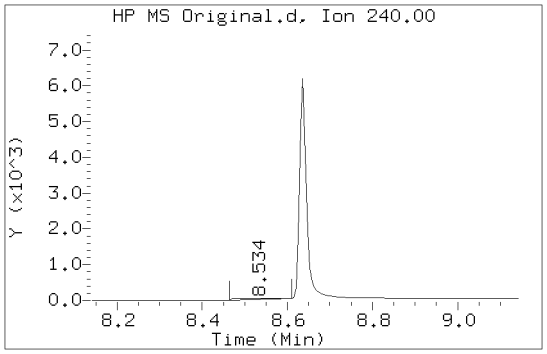


Chrysene-d12 (1719-03-5)

Reason Code:

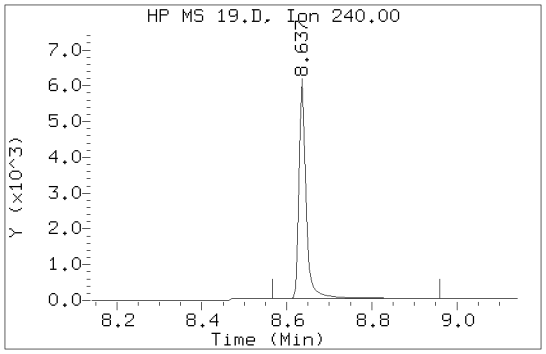
BEFORE

MASS
240
AREA
202
HEIGHT
26
21-Jun-2024
18:01
ALSHS
Server



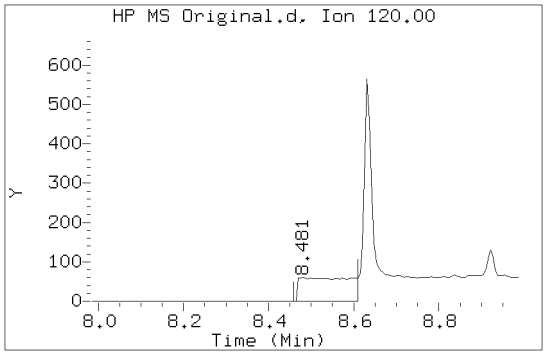
AFTER

MASS
240
AREA
7131
HEIGHT
6149
22-Jun-2024
14:06



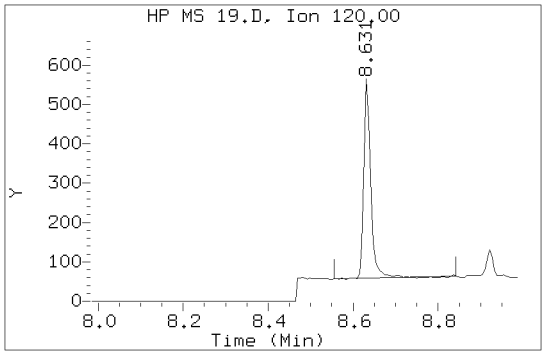
BEFORE

MASS
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AREA
499
HEIGHT
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18:01
ALSHS
Server



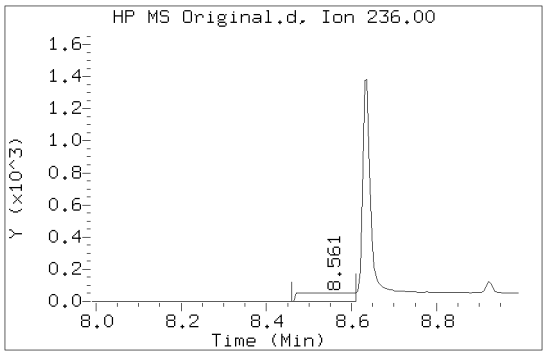
AFTER

MASS
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AREA
560
HEIGHT
506
22-Jun-2024
14:06



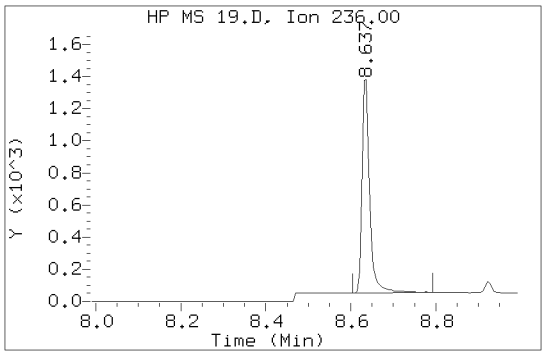
BEFORE

MASS
236
AREA
449
HEIGHT
53
21-Jun-2024
18:01
ALSHS
Server



AFTER

MASS
236
AREA
1655
HEIGHT
1328
22-Jun-2024
14:06

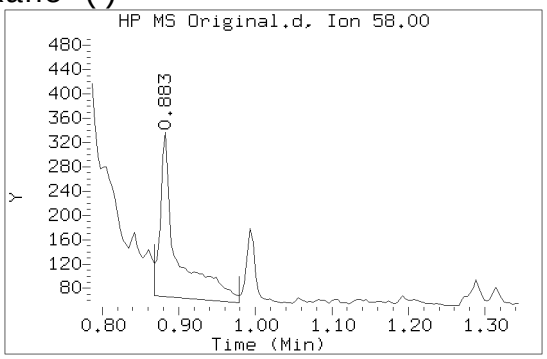


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\19.D
Inj Date : 21-JUN-2024 17:33
InstruID : SV6.i
LabSampID : HS24060795-06

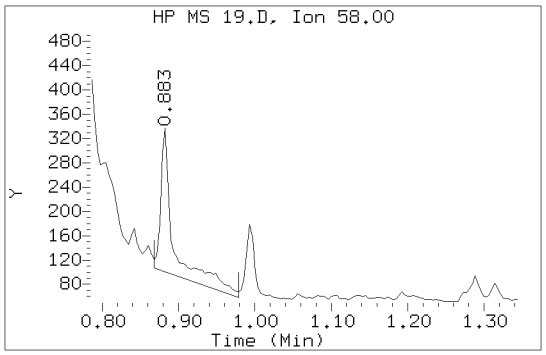
1,4-Dioxane ()

Reason Code:

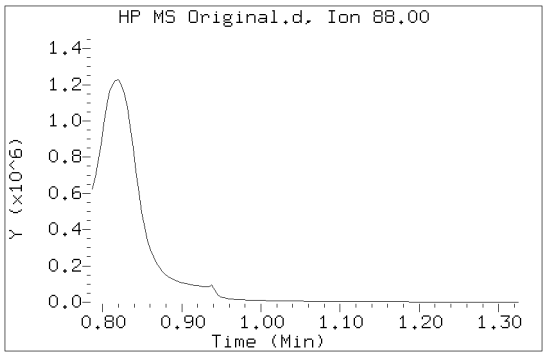
BEFORE
MASS
58
AREA
413
HEIGHT
270
21-Jun-2024
18:01
ALSHS
Server



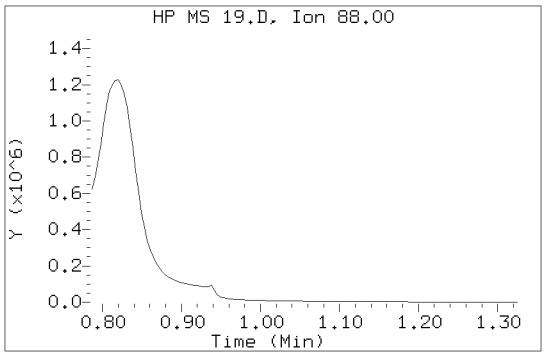
AFTER
MASS
58
AREA
272
HEIGHT
236
22-Jun-2024
14:06



BEFORE
MASS
88
AREA
0
HEIGHT
0
21-Jun-2024
18:01
ALSHS
Server



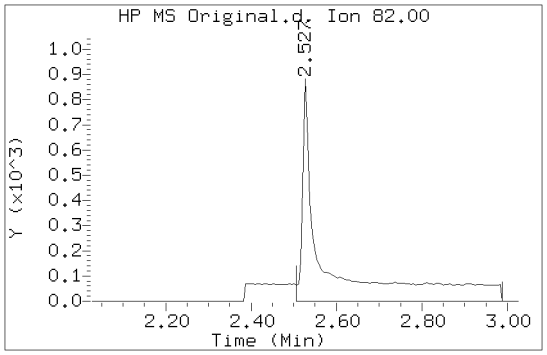
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AREA
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HEIGHT
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22-Jun-2024
14:06



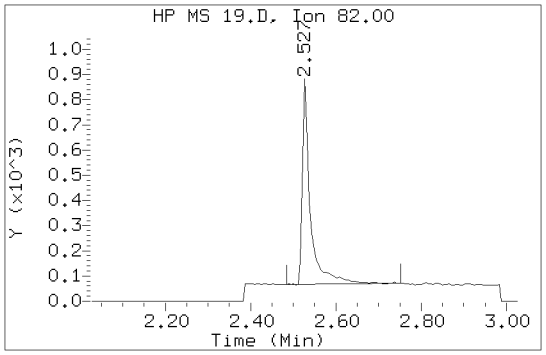
Nitrobenzene-d5 (4165-60-0)

Reason Code:

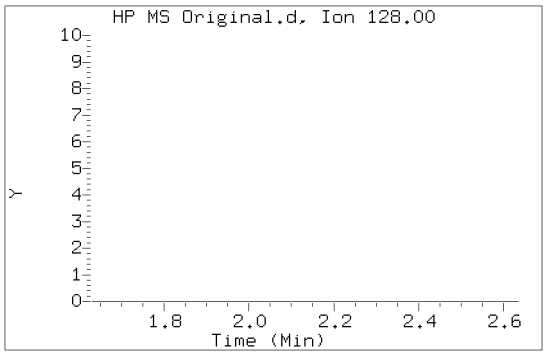
BEFORE
MASS
82
AREA
3037
HEIGHT
882
21-Jun-2024
18:01
ALSHS
Server



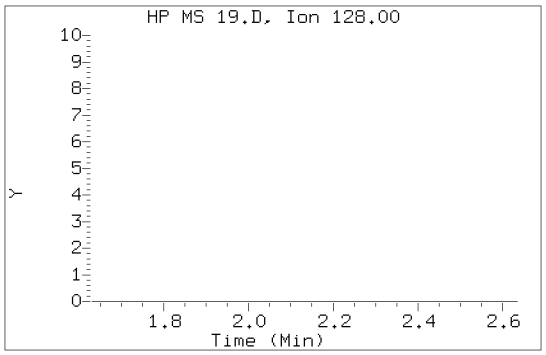
AFTER
MASS
82
AREA
1073
HEIGHT
815
22-Jun-2024
14:06



BEFORE
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
18:01
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
14:06



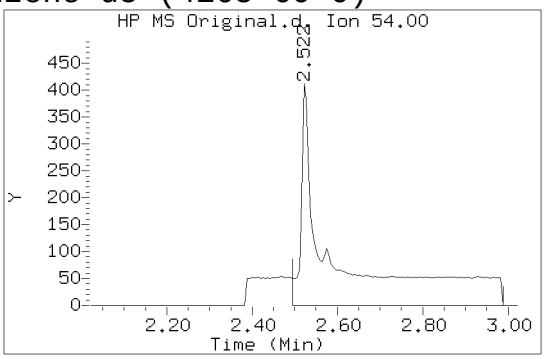
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\19.D
Inj Date : 21-JUN-2024 17:33
InstruID : SV6.i
LabSampID : HS24060795-06

Nitrobenzene-d5 (4165-60-0)

Reason Code:

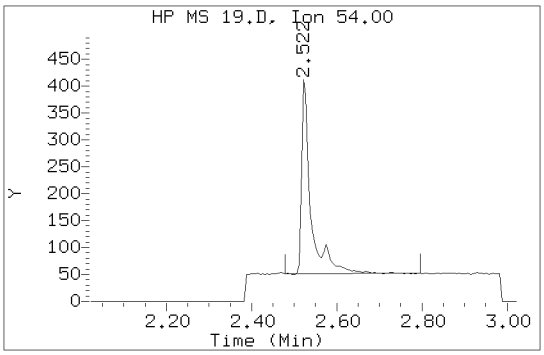
BEFORE

MASS
54
AREA
2077
HEIGHT
412
21-Jun-2024
18:01
ALSHS
Server



AFTER

MASS
54
AREA
539
HEIGHT
360
22-Jun-2024
14:06

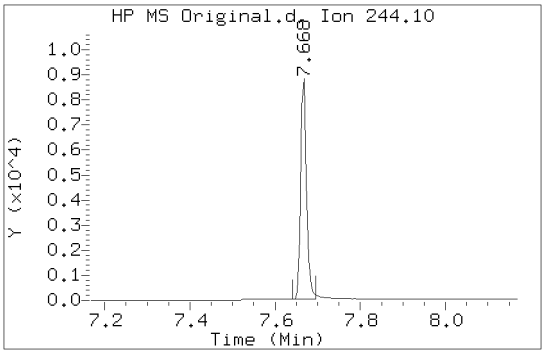


4-Terphenyl-d14 (1718-51-0)

Reason Code:

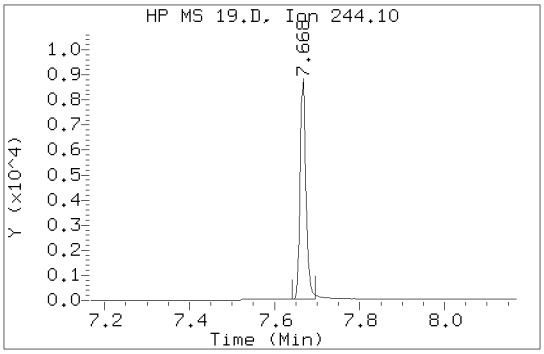
BEFORE

MASS
244.1
AREA
8547
HEIGHT
8797
21-Jun-2024
18:01
ALSHS
Server



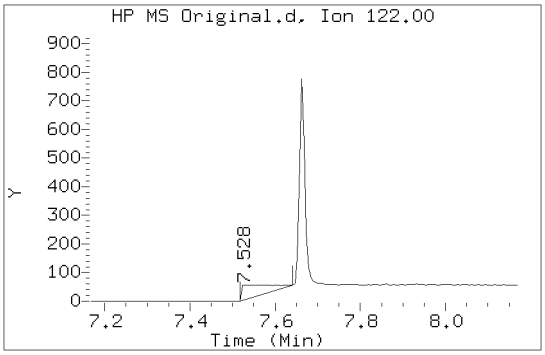
AFTER

MASS
244.1
AREA
8547
HEIGHT
8797
22-Jun-2024
14:06



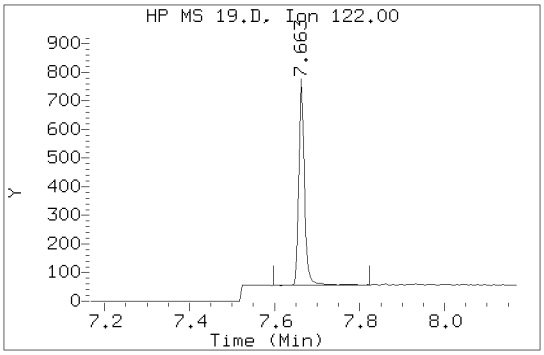
BEFORE

MASS
122
AREA
196
HEIGHT
52
21-Jun-2024
18:01
ALSHS
Server



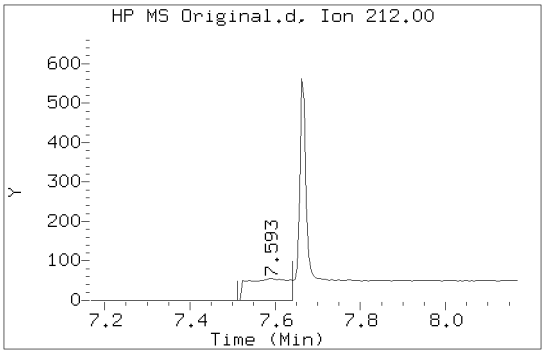
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677
HEIGHT
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22-Jun-2024
14:06



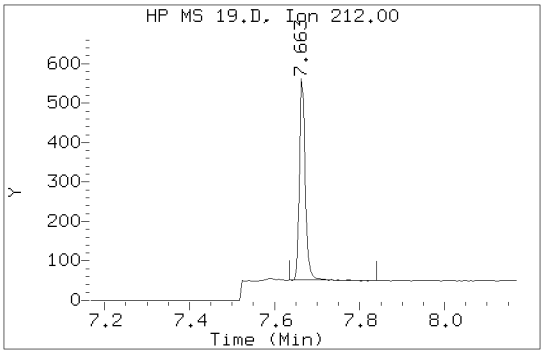
BEFORE

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AREA
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HEIGHT
56
21-Jun-2024
18:01
ALSHS
Server



AFTER

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AREA
492
HEIGHT
510
22-Jun-2024
14:06



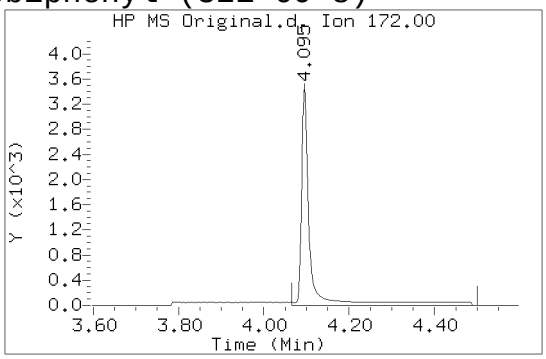
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Inj Date : 21-JUN-2024 17:33
InstruID : SV6.i
LabSampID : HS24060795-06

2-Fluorobiphenyl (321-60-8)

Reason Code:

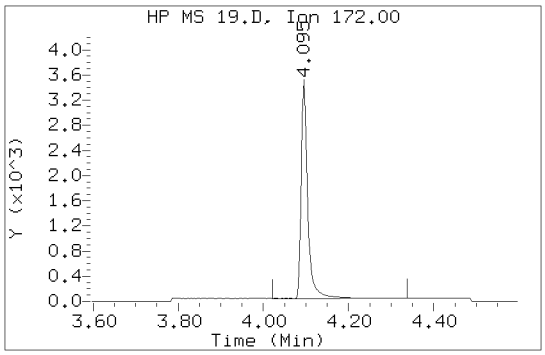
BEFORE

MASS
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AREA
4913
HEIGHT
3525
21-Jun-2024
18:01
ALSHS
Server



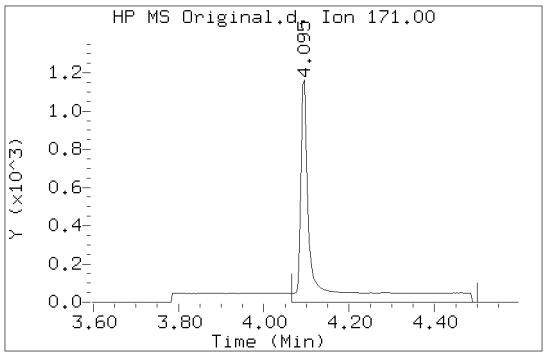
AFTER

MASS
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AREA
3681
HEIGHT
3479
22-Jun-2024
14:06



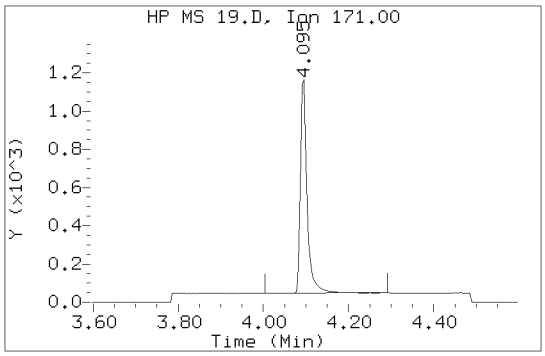
BEFORE

MASS
171
AREA
2435
HEIGHT
1163
21-Jun-2024
18:01
ALSHS
Server



AFTER

MASS
171
AREA
1197
HEIGHT
1115
22-Jun-2024
14:06



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\20.D Page 1
Report Date: 22-Jun-2024 14:07

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\20.D
Lab Smp Id: HS24060795-07
Inj Date : 21-JUN-2024 17:51
Operator : LG Inst ID: SV6.i
Smp Info : HS24060795-07
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.119	2.113	(1.000)	2367	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.106	3.106	(1.000)	5596	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.834)	1298	0.07726	0.07726
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	3411	0.10000	
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	4503	0.08636	0.08636
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	6867	0.10000	
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	6304	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	8772	0.06831	0.06830(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	6476	0.10000	
1 1,4-Dioxane	58	0.875	0.842	(0.413)	1181	0.23294	0.2329(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\20.D

Date : 21-JUN-2024 17:51

Client ID:

Instrument: SV6.i

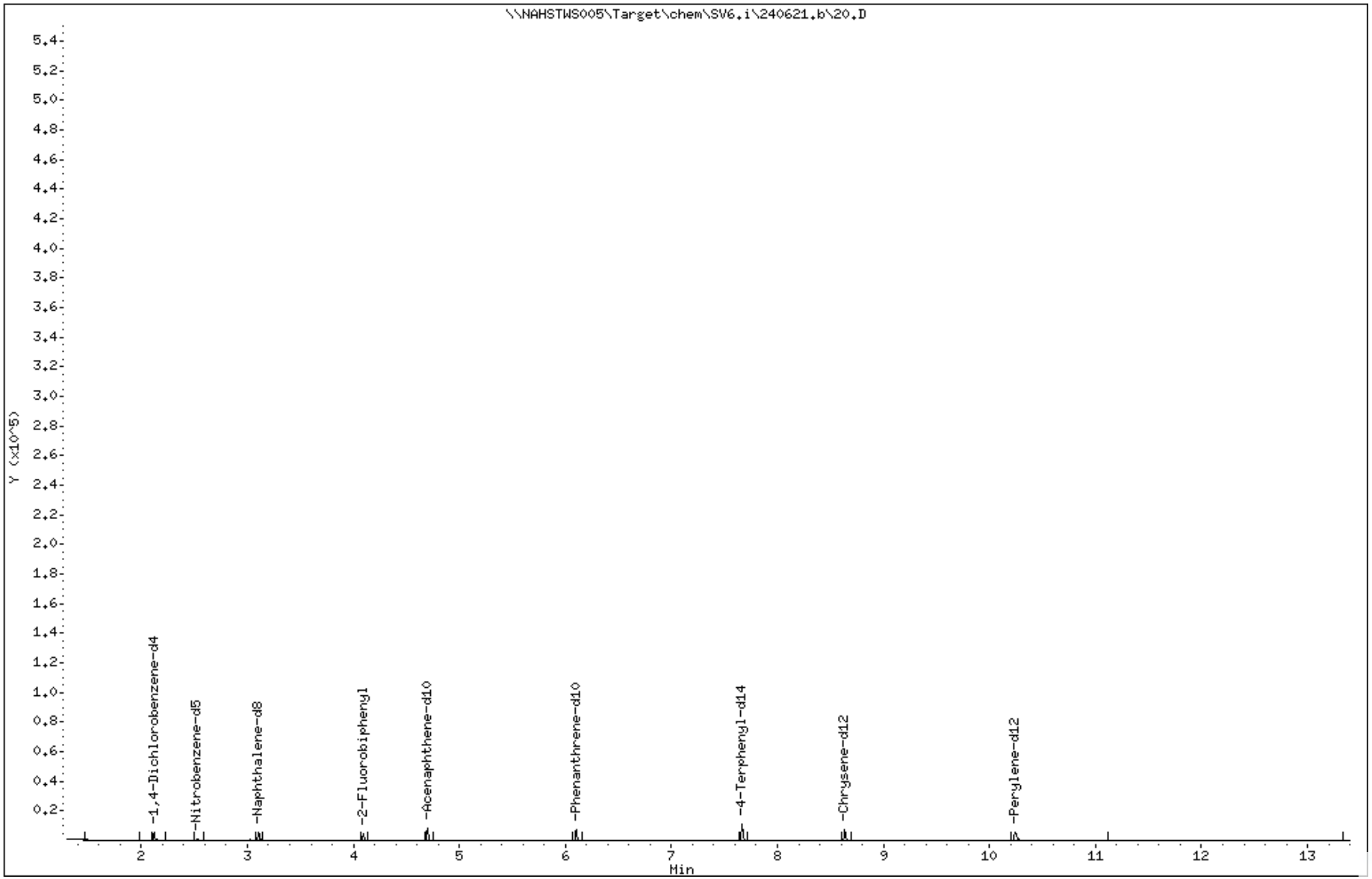
Sample Info: HS24060795-07

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\20.D

Date : 21-JUN-2024 17:51

Client ID:

Instrument: SV6.i

Sample Info: HS24060795-07

Purge Volume: 1000.0

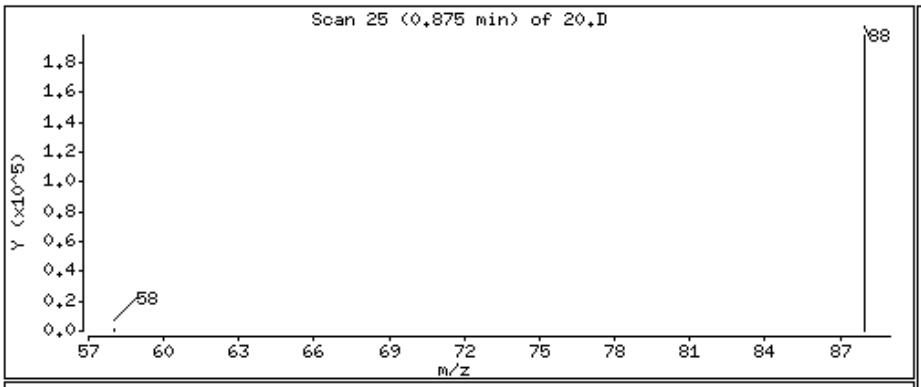
Operator: LG

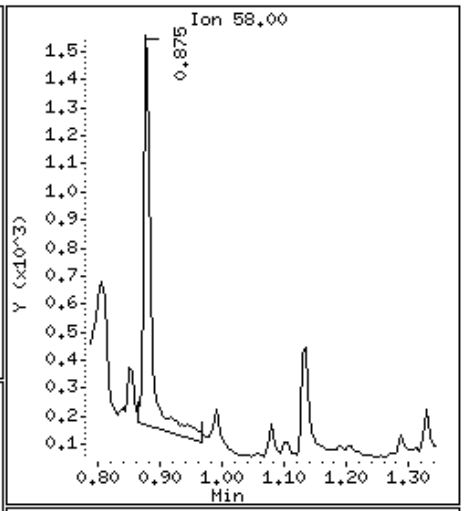
Column phase: RTX-5SIL MS

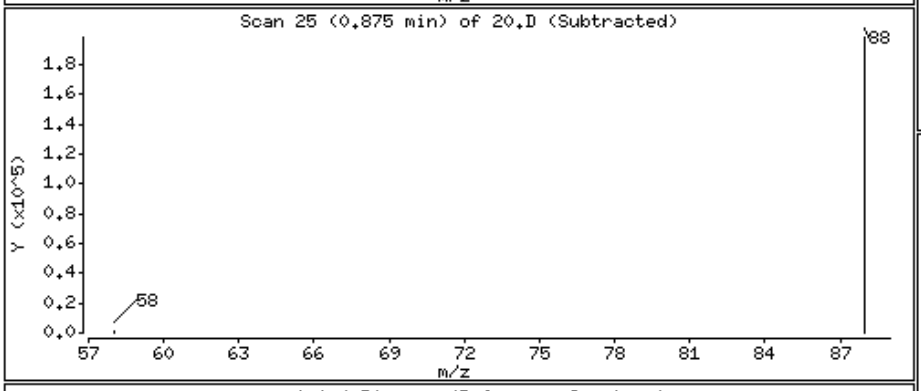
Column diameter: 0.28

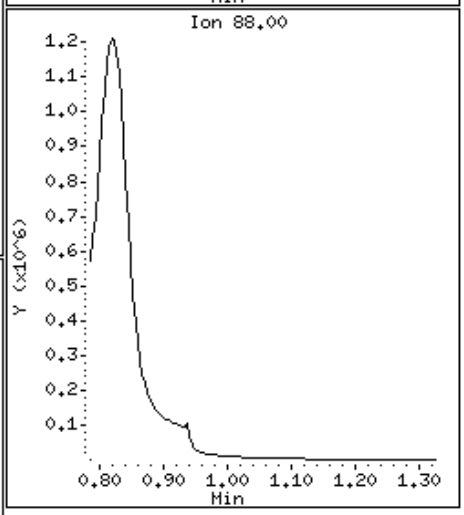
1 1,4-Dioxane

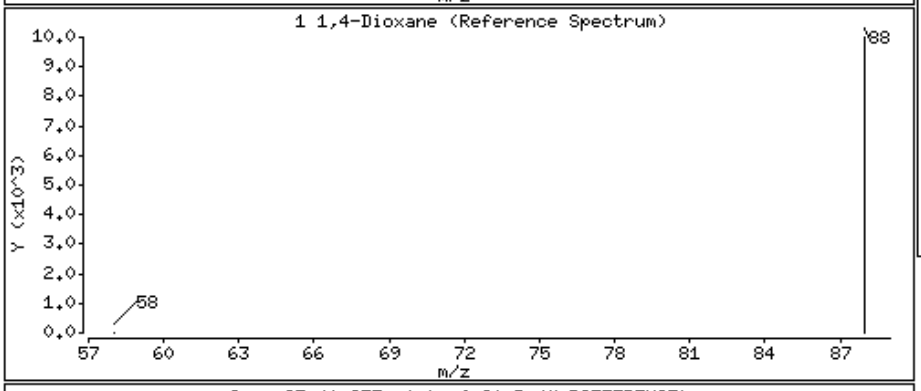
Concentration: 0.2329 ug/L

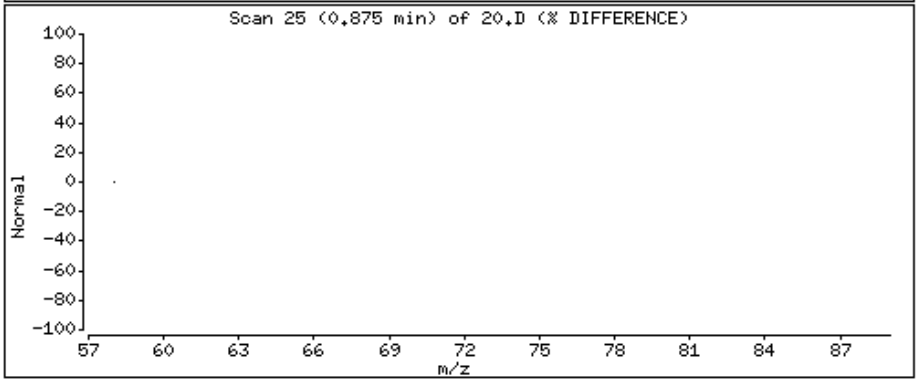










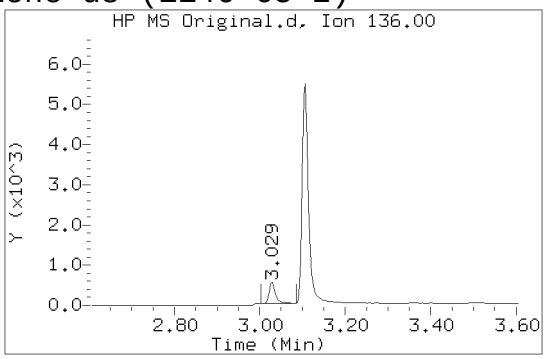


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\20.D
Inj Date : 21-JUN-2024 17:51
InstruID : SV6.i
LabSampID : HS24060795-07

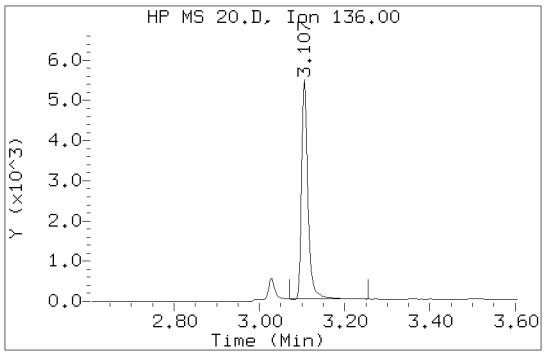
Naphthalene-d8 (1146-65-2)

Reason Code:

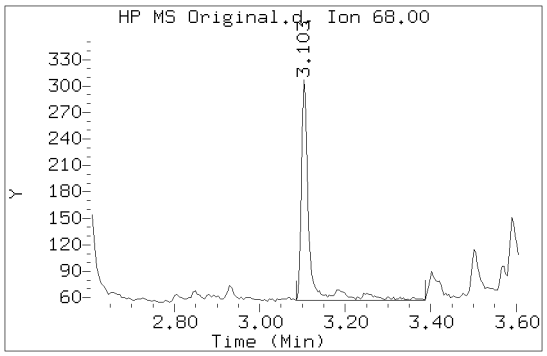
BEFORE
MASS
136
AREA
524
HEIGHT
523
21-Jun-2024
18:11
ALSHS
Server



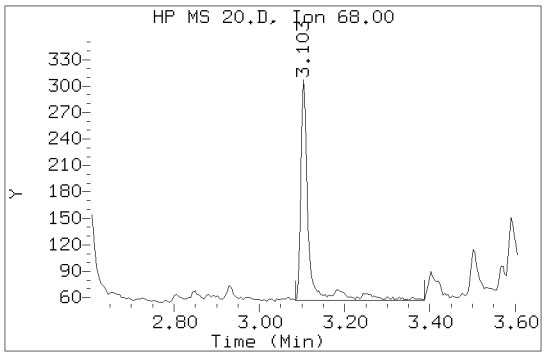
AFTER
MASS
136
AREA
5596
HEIGHT
5457
22-Jun-2024
14:07



BEFORE
MASS
68
AREA
322
HEIGHT
250
21-Jun-2024
18:11
ALSHS
Server



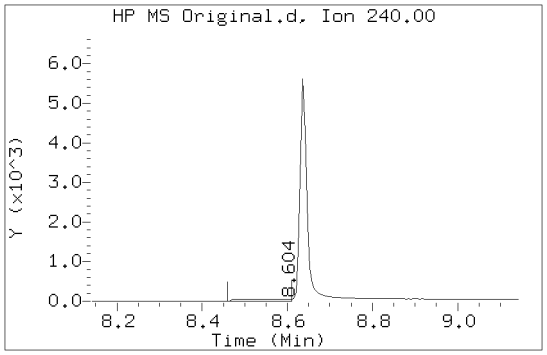
AFTER
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AREA
322
HEIGHT
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22-Jun-2024
14:07



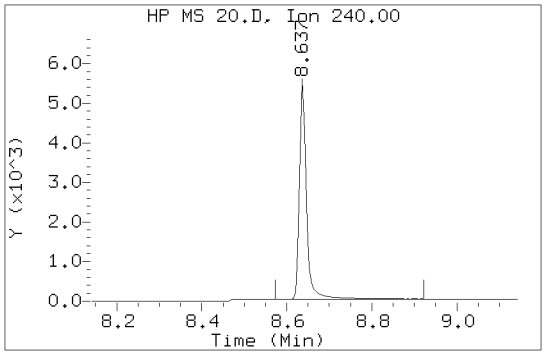
Chrysene-d12 (1719-03-5)

Reason Code:

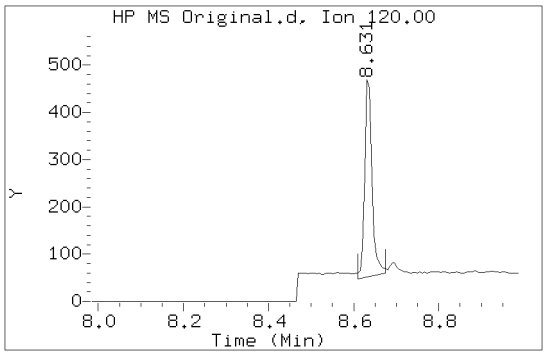
BEFORE
MASS
240
AREA
440
HEIGHT
52
21-Jun-2024
18:11
ALSHS
Server



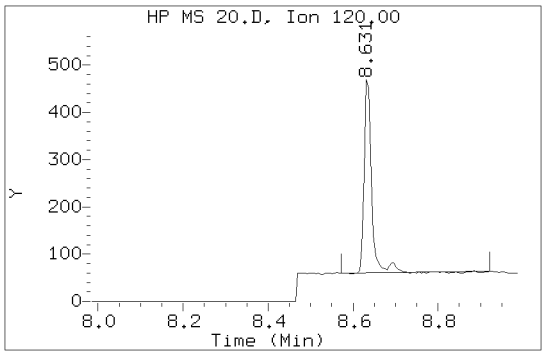
AFTER
MASS
240
AREA
6304
HEIGHT
5561
22-Jun-2024
14:07



BEFORE
MASS
120
AREA
494
HEIGHT
417
21-Jun-2024
18:11
ALSHS
Server



AFTER
MASS
120
AREA
481
HEIGHT
409
22-Jun-2024
14:07



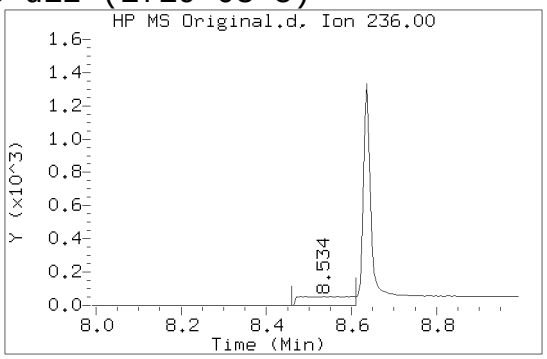
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Inj Date : 21-JUN-2024 17:51
InstruID : SV6.i
LabSampID : HS24060795-07

Chrysene-d12 (1719-03-5)

Reason Code:

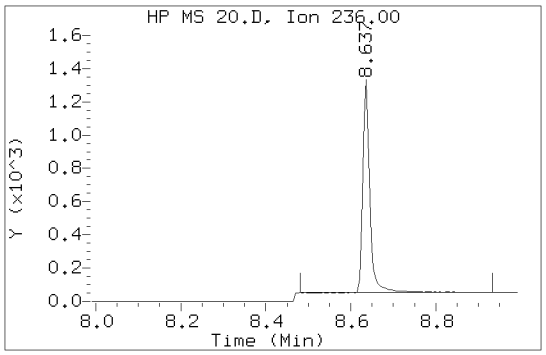
BEFORE

MASS
236
AREA
456
HEIGHT
54
21-Jun-2024
18:11
ALSHS
Server



AFTER

MASS
236
AREA
1437
HEIGHT
1279
22-Jun-2024
14:07

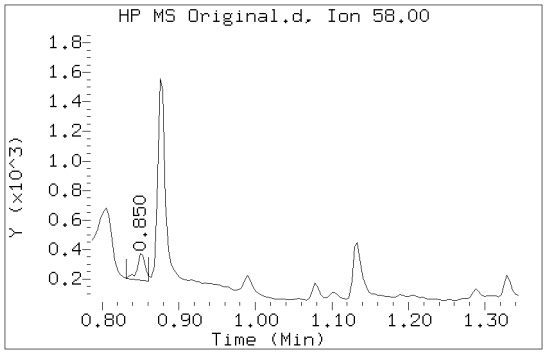


1,4-Dioxane ()

Reason Code:

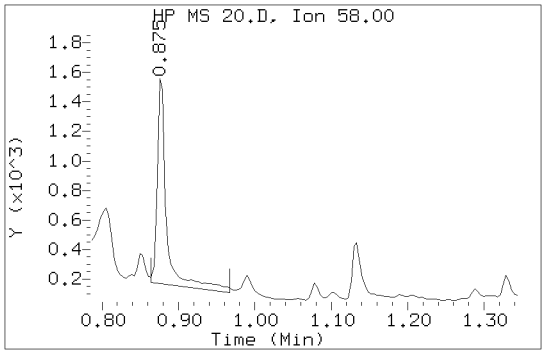
BEFORE

MASS
58
AREA
133
HEIGHT
179
21-Jun-2024
18:11
ALSHS
Server



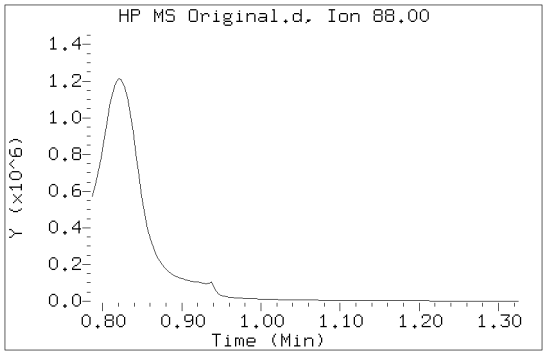
AFTER

MASS
58
AREA
1181
HEIGHT
1386
22-Jun-2024
14:07



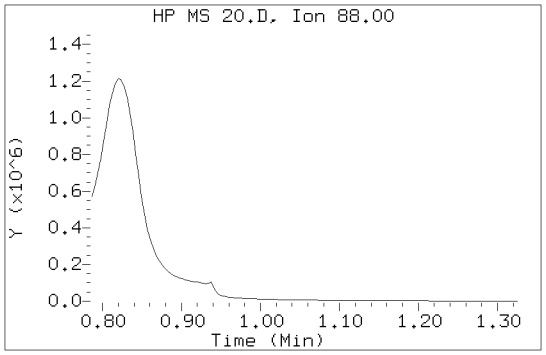
BEFORE

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88
AREA
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HEIGHT
0
21-Jun-2024
18:11
ALSHS
Server



AFTER

MASS
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AREA
0
HEIGHT
0
22-Jun-2024
14:07

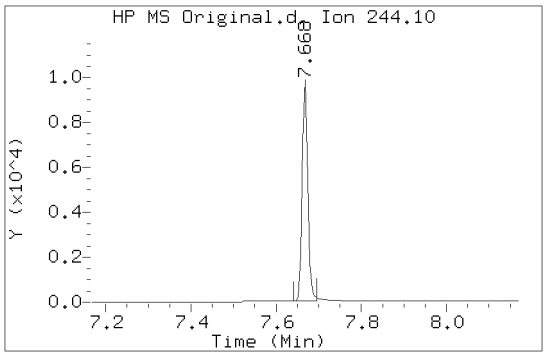


4-Terphenyl-d14 (1718-51-0)

Reason Code:

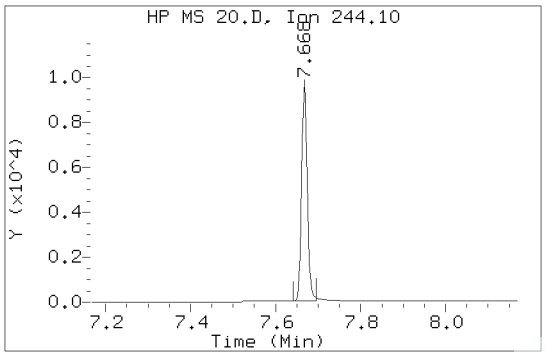
BEFORE

MASS
244.1
AREA
8772
HEIGHT
9844
21-Jun-2024
18:11
ALSHS
Server



AFTER

MASS
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AREA
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HEIGHT
9844
22-Jun-2024
14:07

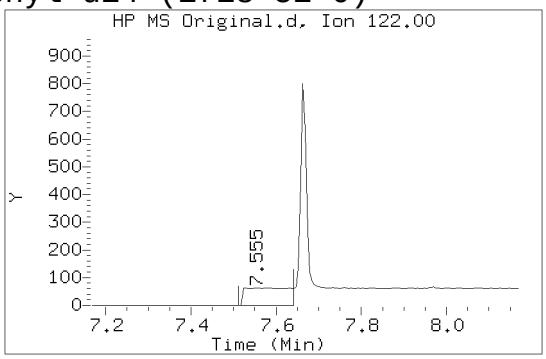


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\20.D
Inj Date : 21-JUN-2024 17:51
InstruID : SV6.i
LabSampID : HS24060795-07

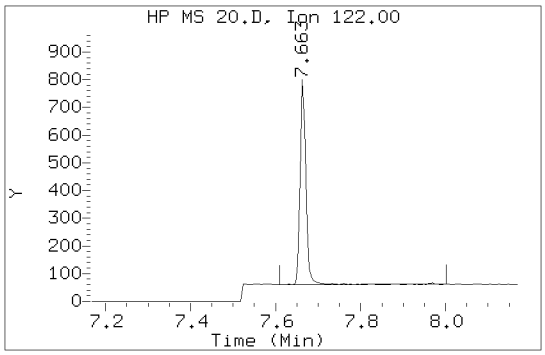
4-Terphenyl-d14 (1718-51-0)

Reason Code:

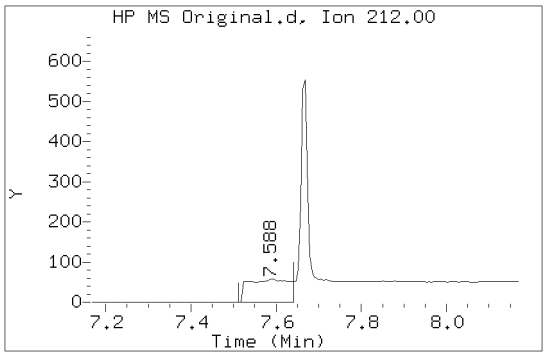
BEFORE
MASS
122
AREA
452
HEIGHT
63
21-Jun-2024
18:11
ALSHS
Server



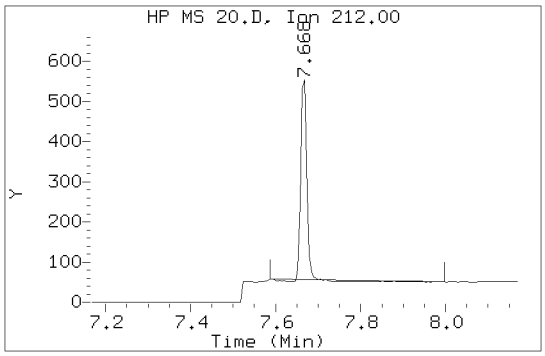
AFTER
MASS
122
AREA
678
HEIGHT
739
22-Jun-2024
14:07



BEFORE
MASS
212
AREA
388
HEIGHT
57
21-Jun-2024
18:11
ALSHS
Server



AFTER
MASS
212
AREA
447
HEIGHT
498
22-Jun-2024
14:07



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\21.D Page 1
Report Date: 22-Jun-2024 13:57

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\21.D
Lab Smp Id: HS24060795-08
Inj Date : 21-JUN-2024 18:08
Operator : LG Inst ID: SV6.i
Smp Info : HS24060795-08
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.113	2.113	(1.000)	2438	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.102	3.106	(1.000)	4929	0.10000	
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.814)	1204	0.08137	0.08137
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	3054	0.10000	
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	4366	0.09352	0.09352
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	6148	0.10000	
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	5861	0.10000	
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	5448	0.04563	0.04563
* 198 Perylene-d12	264	10.244	10.250	(1.000)	5764	0.10000	
1 1,4-Dioxane	58	0.856	0.842	(0.405)	258	0.04941	0.04940(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\21.D

Date : 21-JUN-2024 18:08

Client ID:

Instrument: SV6.i

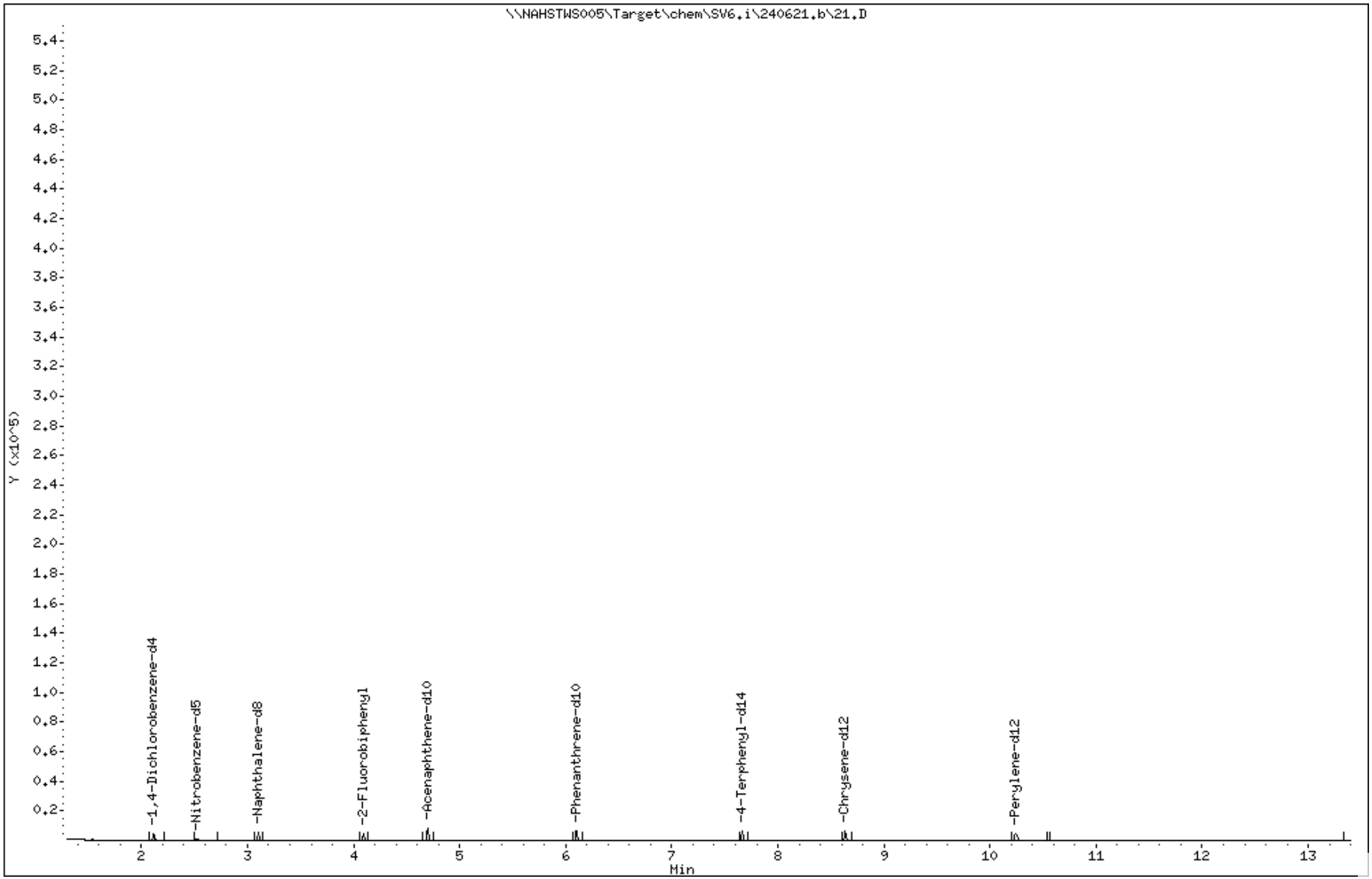
Sample Info: HS24060795-08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\21.D Page 2

Date : 21-JUN-2024 18:08

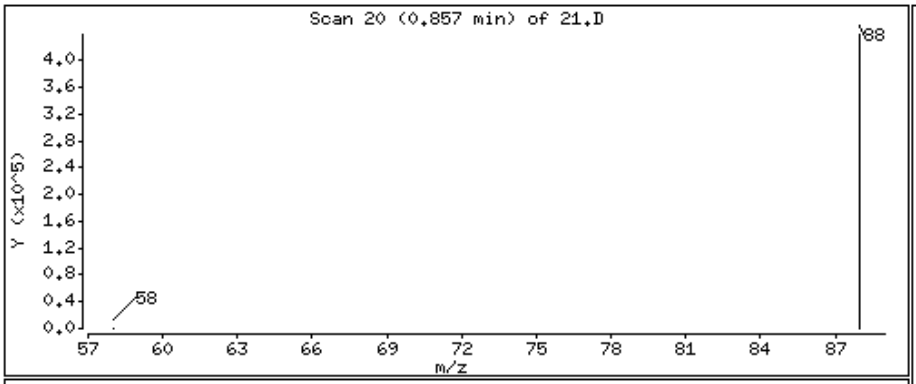
Client ID: Instrument: SV6.i

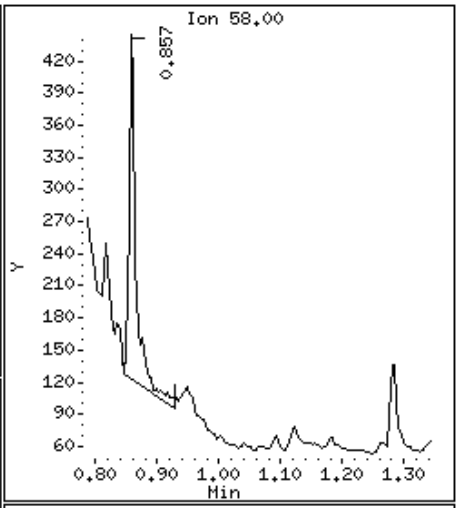
Sample Info: HS24060795-08

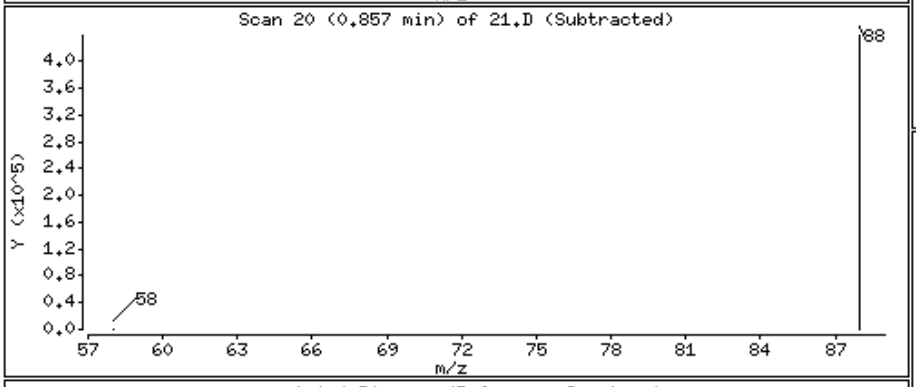
Purge Volume: 1000.0 Operator: LG

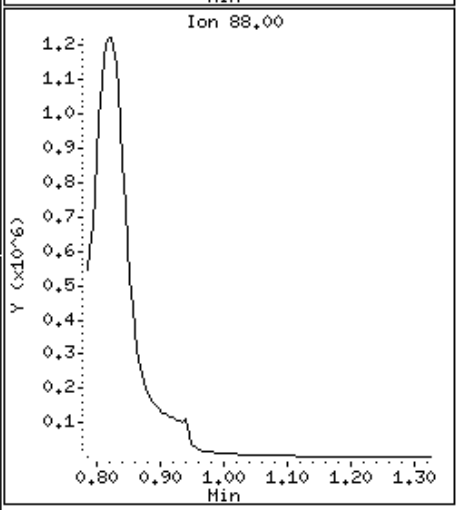
Column phase: RTX-5SIL MS Column diameter: 0.28

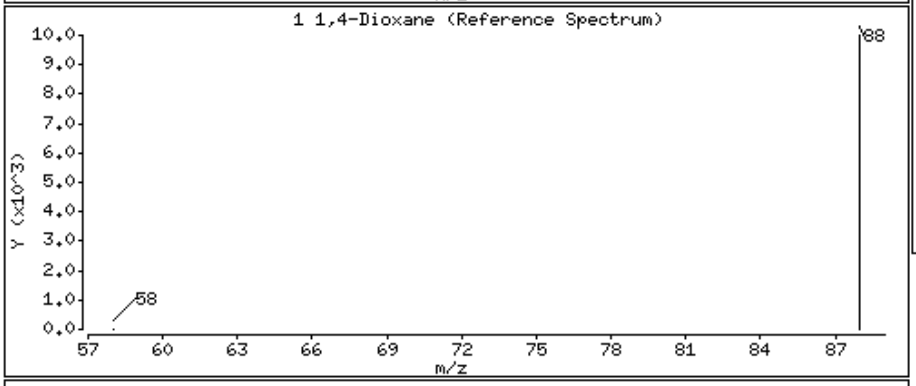
1 1,4-Dioxane Concentration: 0.04940 ug/L

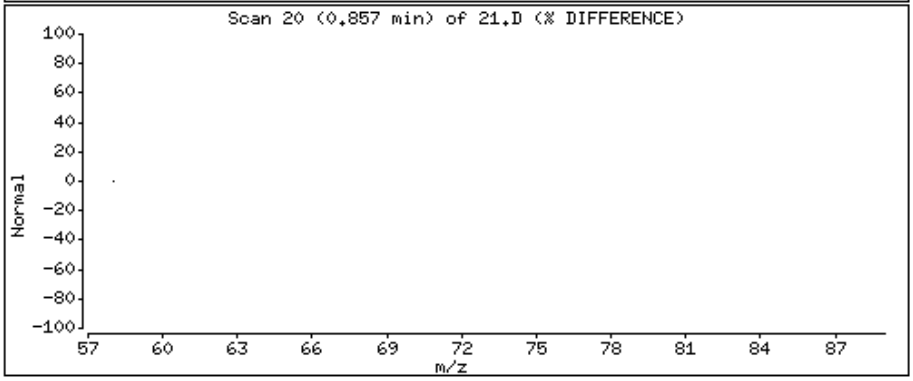










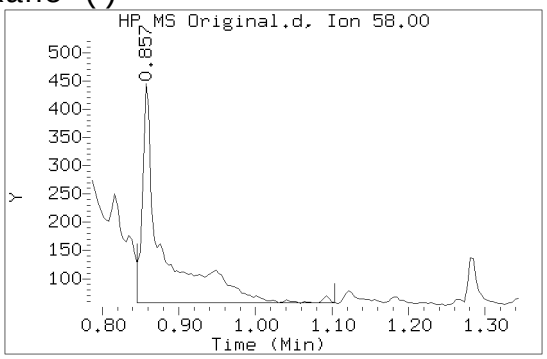


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\21.D
Inj Date : 21-JUN-2024 18:08
InstruID : SV6.i
LabSampID : HS24060795-08

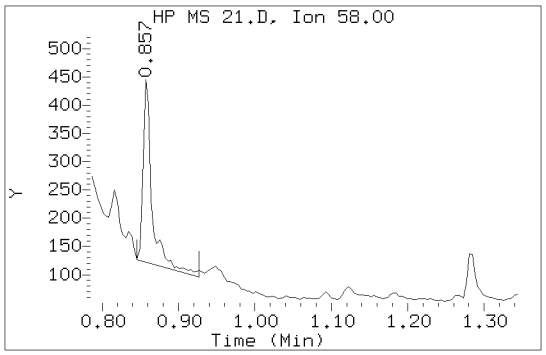
1,4-Dioxane ()

Reason Code:

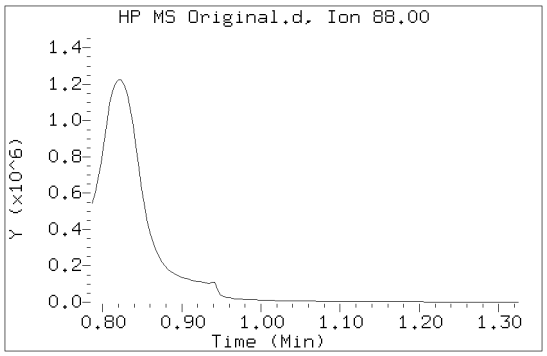
BEFORE
MASS
58
AREA
709
HEIGHT
388
21-Jun-2024
18:23
ALSHS
Server



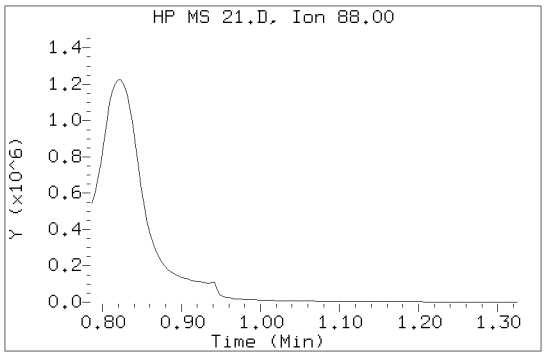
AFTER
MASS
58
AREA
258
HEIGHT
322
22-Jun-2024
13:57



BEFORE
MASS
88
AREA
0
HEIGHT
0
21-Jun-2024
18:23
ALSHS
Server



AFTER
MASS
88
AREA
0
HEIGHT
0
22-Jun-2024
13:57



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D Page 1
Report Date: 22-Jun-2024 09:15

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 21-JUN-2024 20:10
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.113	2.113	(1.000)	1709	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.106	3.106	(1.000)	5716	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.813)	1213	0.08000	0.07069(M)
* 86 Acenaphthene-d10	164	4.703	4.703	(1.000)	3486	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.098	4.098	(0.871)	3976	0.08000	0.07461
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	6939	0.10000	(M)
* 182 Chrysene-d12	240	8.641	8.641	(1.000)	6776	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.887)	8875	0.08000	0.06429(M)
* 198 Perylene-d12	264	10.250	10.250	(1.000)	5691	0.10000	(M)
1 1,4-Dioxane	58	0.842	0.842	(0.398)	278	0.08000	0.07594(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D

Date : 21-JUN-2024 20:10

Client ID: 14DX-0.08

Instrument: SV6.i

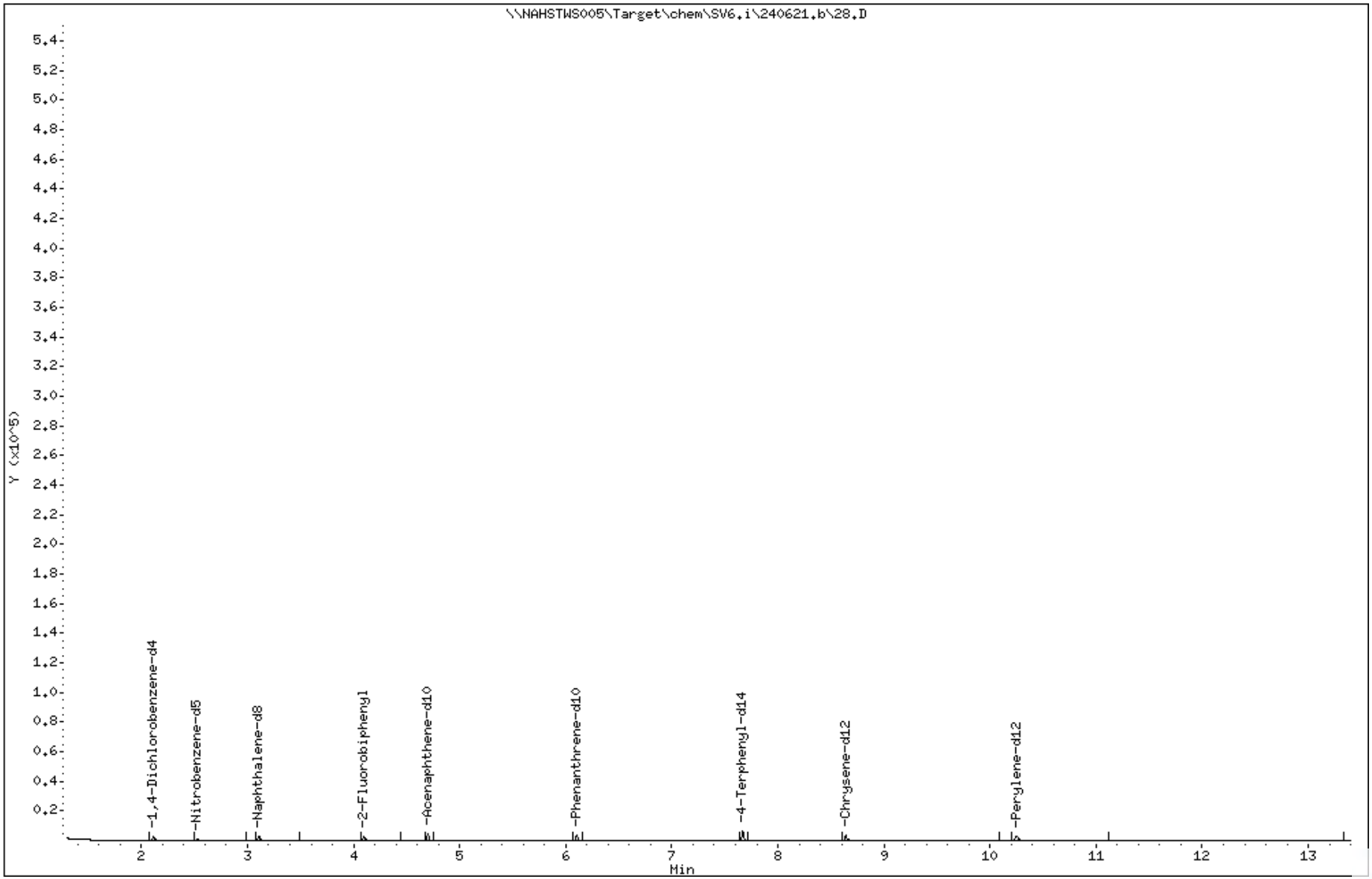
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

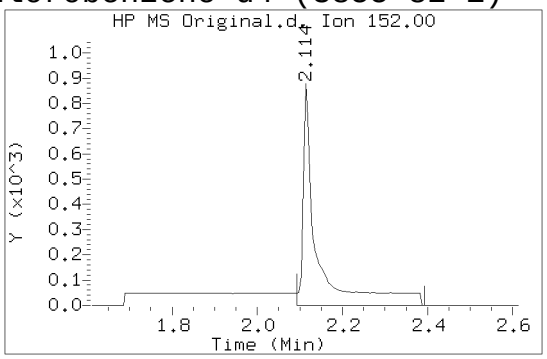


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

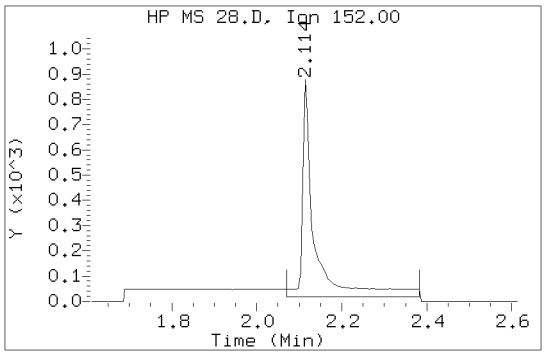
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

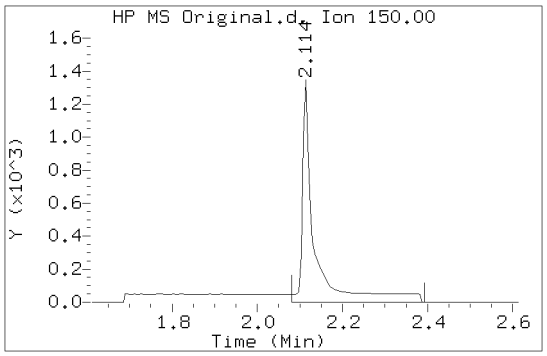
BEFORE
MASS
152
AREA
1990
HEIGHT
878
21-Jun-2024
20:25
ALSHS
Server



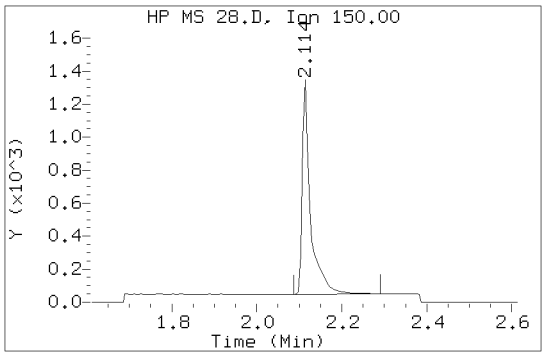
AFTER
MASS
152
AREA
1709
HEIGHT
860
22-Jun-2024
09:15



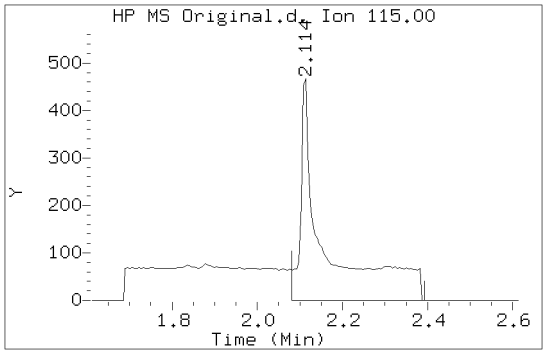
BEFORE
MASS
150
AREA
2677
HEIGHT
1347
21-Jun-2024
20:25
ALSHS
Server



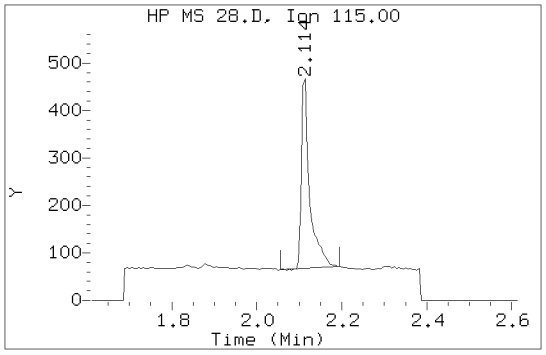
AFTER
MASS
150
AREA
1770
HEIGHT
1298
22-Jun-2024
09:15



BEFORE
MASS
115
AREA
1795
HEIGHT
467
21-Jun-2024
20:25
ALSHS
Server



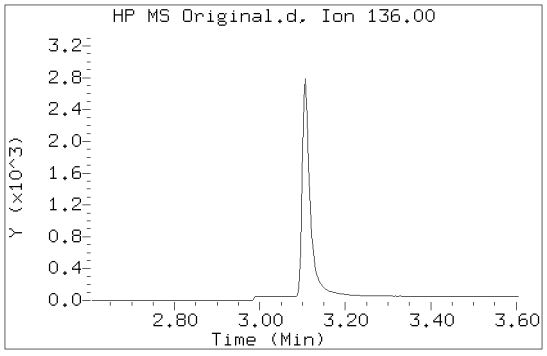
AFTER
MASS
115
AREA
545
HEIGHT
399
22-Jun-2024
09:15



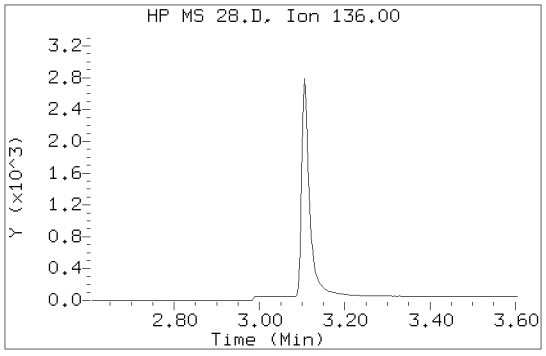
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



AFTER
MASS
136
AREA
5716
HEIGHT
2787
22-Jun-2024
09:15

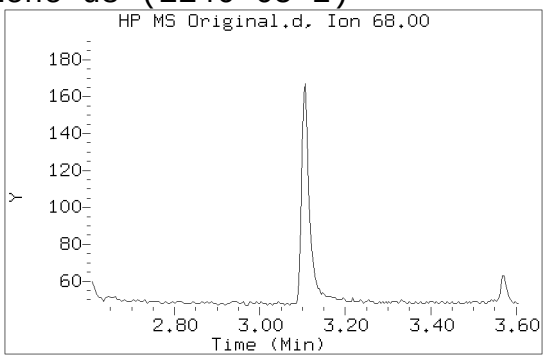


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

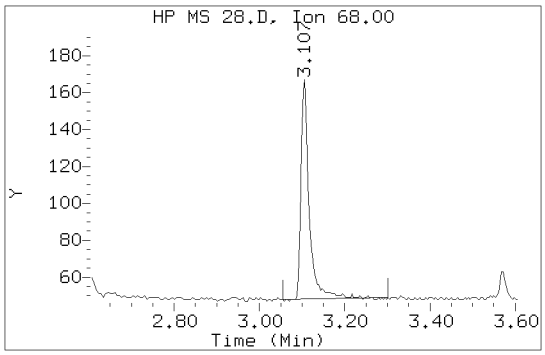
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



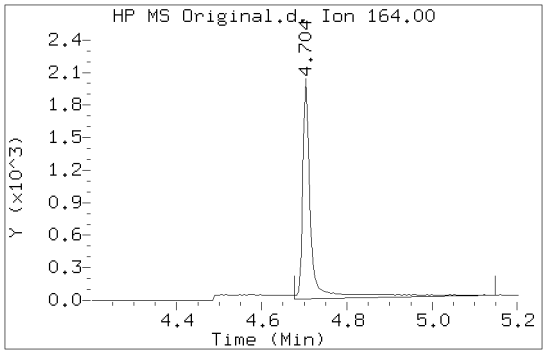
AFTER
MASS
68
AREA
155
HEIGHT
118
22-Jun-2024
09:15



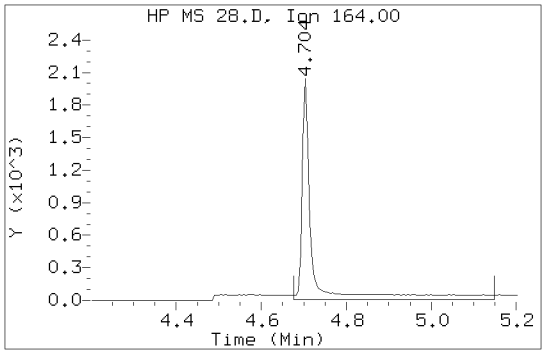
Acenaphthene-d10 (15067-26-2)

Reason Code:

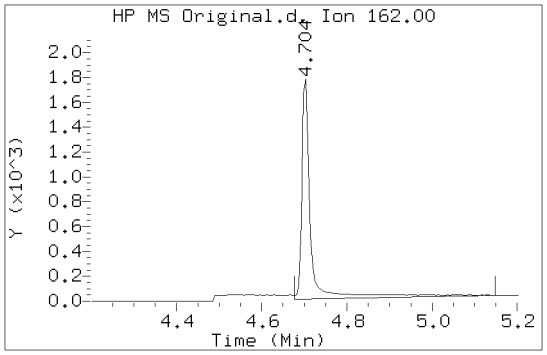
BEFORE
MASS
164
AREA
2713
HEIGHT
2027
21-Jun-2024
20:25
ALSHS
Server



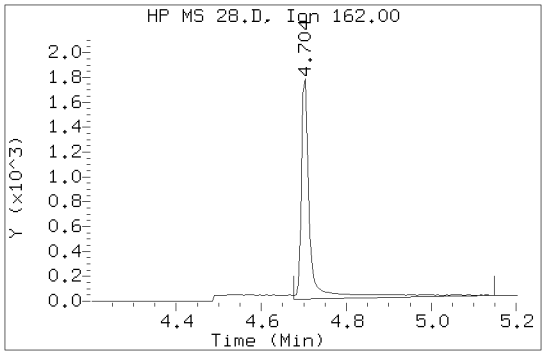
AFTER
MASS
164
AREA
3486
HEIGHT
2039
22-Jun-2024
09:15



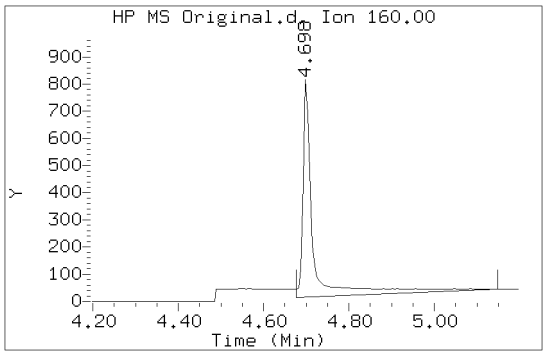
BEFORE
MASS
162
AREA
2546
HEIGHT
1773
21-Jun-2024
20:25
ALSHS
Server



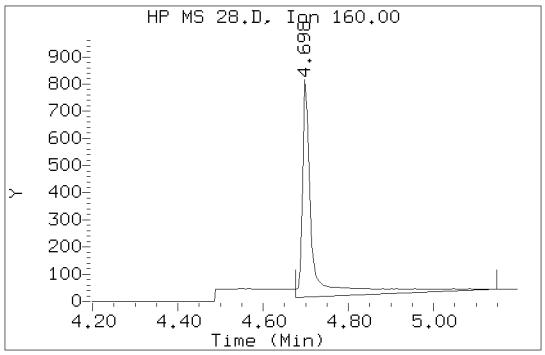
AFTER
MASS
162
AREA
2546
HEIGHT
1773
22-Jun-2024
09:15



BEFORE
MASS
160
AREA
1331
HEIGHT
801
21-Jun-2024
20:25
ALSHS
Server



AFTER
MASS
160
AREA
1331
HEIGHT
801
22-Jun-2024
09:15



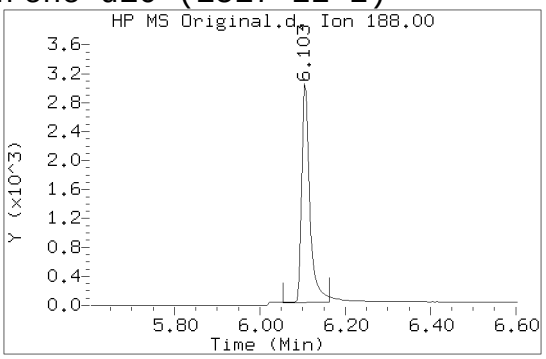
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

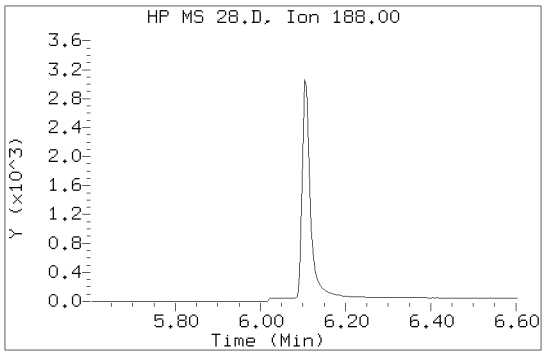
BEFORE

MASS
188
AREA
4004
HEIGHT
3021
21-Jun-2024
20:25
ALSHS
Server



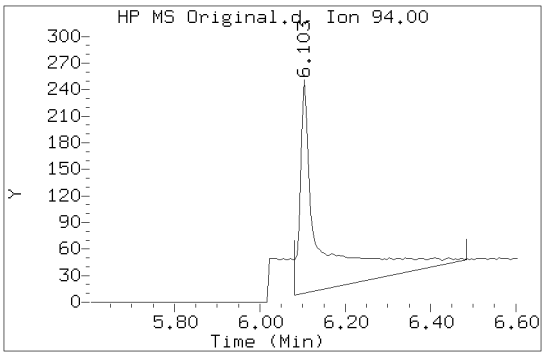
AFTER

MASS
188
AREA
6939
HEIGHT
3062
22-Jun-2024
09:15



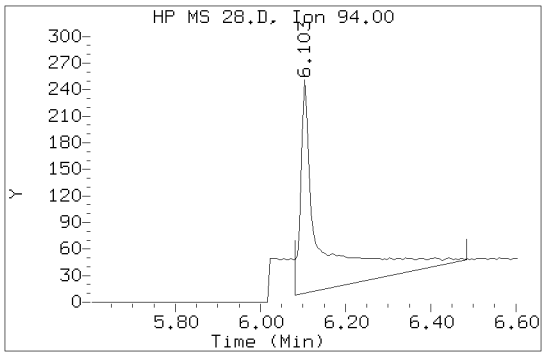
BEFORE

MASS
94
AREA
775
HEIGHT
240
21-Jun-2024
20:25
ALSHS
Server



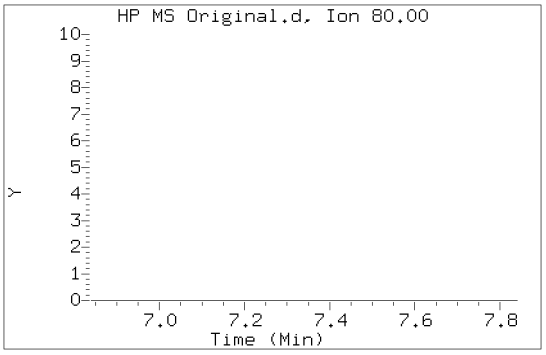
AFTER

MASS
94
AREA
775
HEIGHT
240
22-Jun-2024
09:15



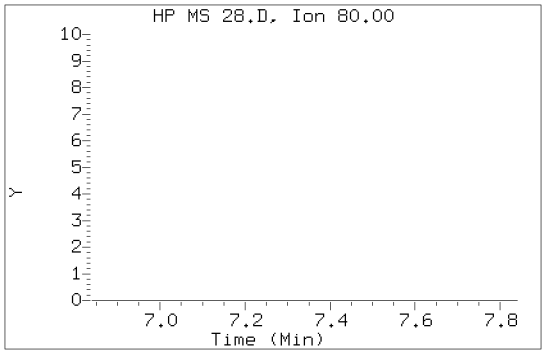
BEFORE

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
09:15

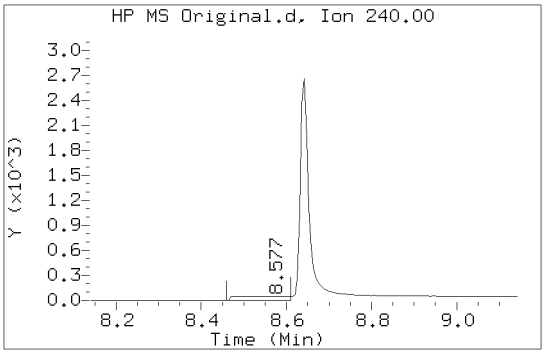


Chrysene-d12 (1719-03-5)

Reason Code:

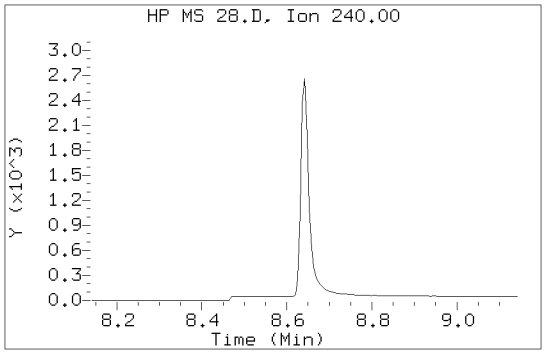
BEFORE

MASS
240
AREA
405
HEIGHT
49
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
240
AREA
6776
HEIGHT
2662
22-Jun-2024
09:15



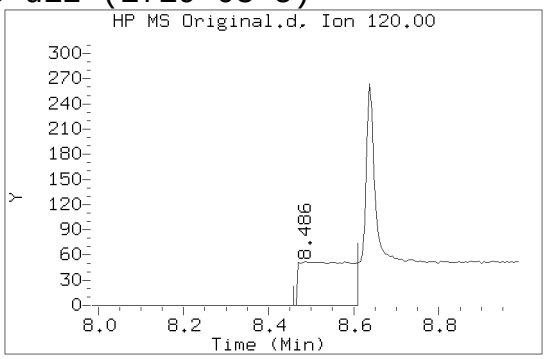
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

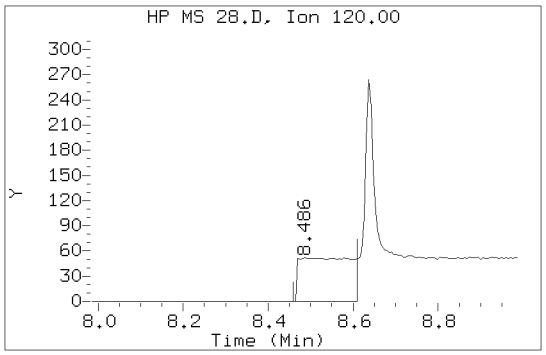
BEFORE

MASS
120
AREA
442
HEIGHT
52
21-Jun-2024
20:25
ALSHS
Server



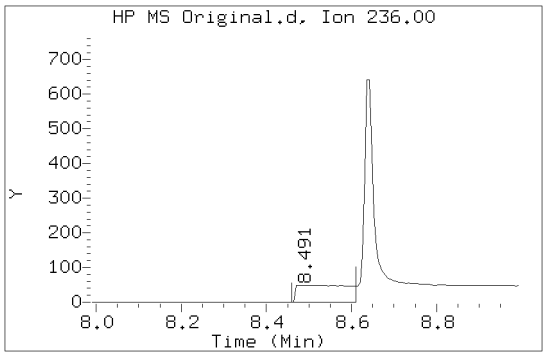
AFTER

MASS
120
AREA
442
HEIGHT
52
22-Jun-2024
09:15



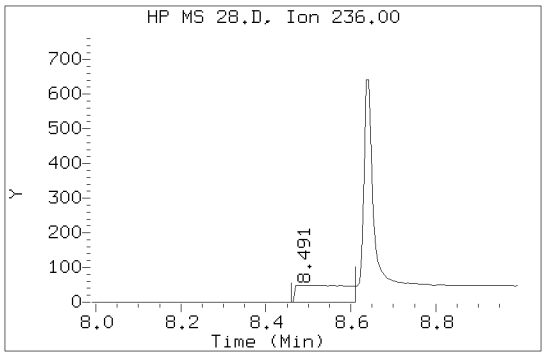
BEFORE

MASS
236
AREA
417
HEIGHT
49
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
236
AREA
417
HEIGHT
49
22-Jun-2024
09:15

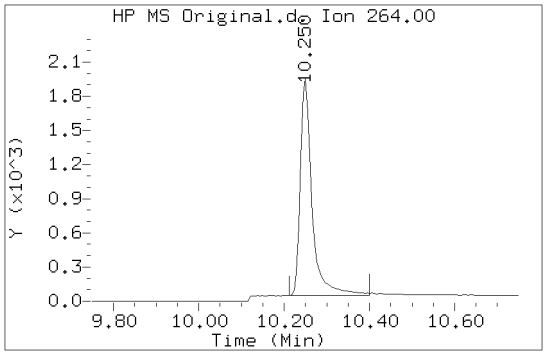


Perylene-d12 (1520-96-3)

Reason Code:

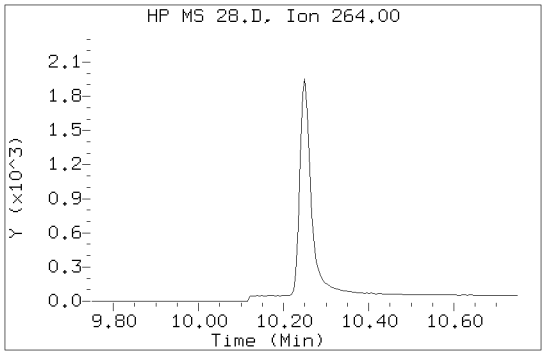
BEFORE

MASS
264
AREA
3660
HEIGHT
1903
21-Jun-2024
20:25
ALSHS
Server



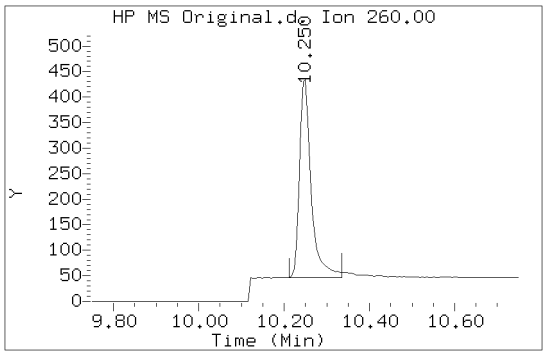
AFTER

MASS
264
AREA
5691
HEIGHT
1951
22-Jun-2024
09:15



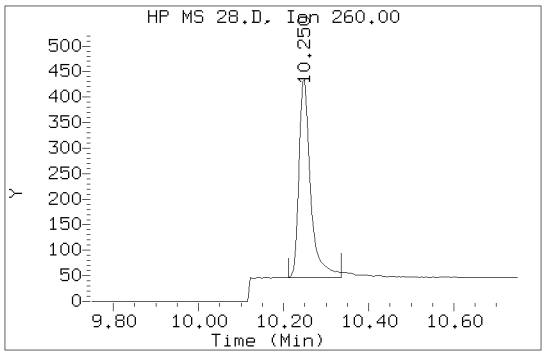
BEFORE

MASS
260
AREA
736
HEIGHT
387
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
260
AREA
736
HEIGHT
387
22-Jun-2024
09:15

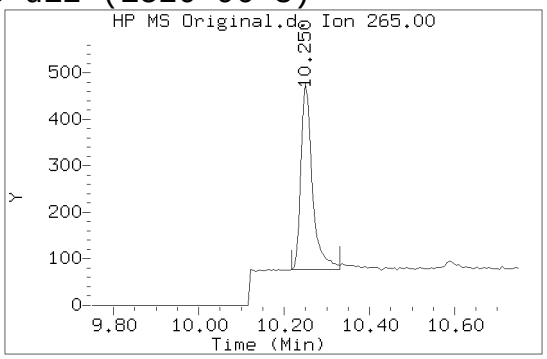


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

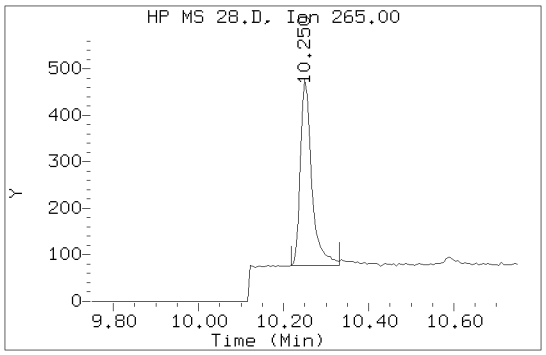
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
744
HEIGHT
400
21-Jun-2024
20:25
ALSHS
Server



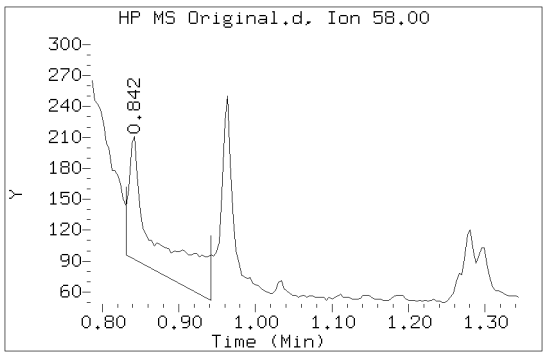
AFTER
MASS
265
AREA
744
HEIGHT
400
22-Jun-2024
09:15



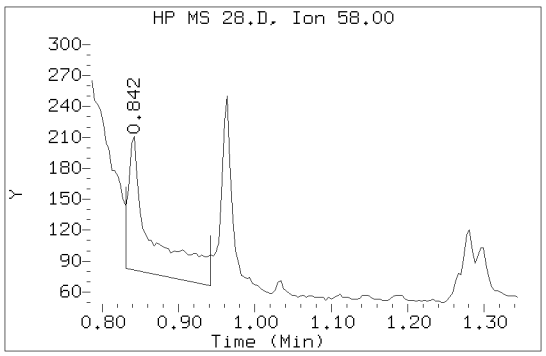
1,4-Dioxane ()

Reason Code:

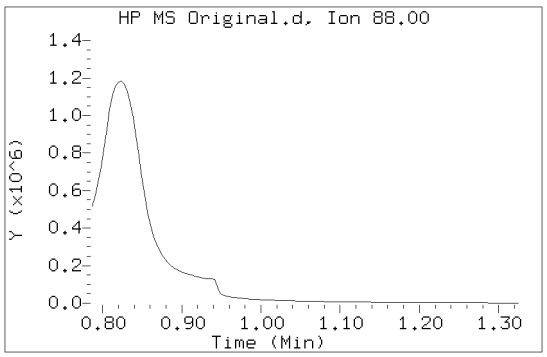
BEFORE
MASS
58
AREA
282
HEIGHT
119
21-Jun-2024
20:25
ALSHS
Server



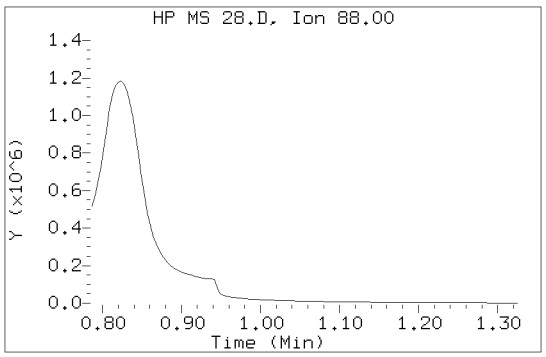
AFTER
MASS
58
AREA
278
HEIGHT
129
22-Jun-2024
09:15



BEFORE
MASS
88
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



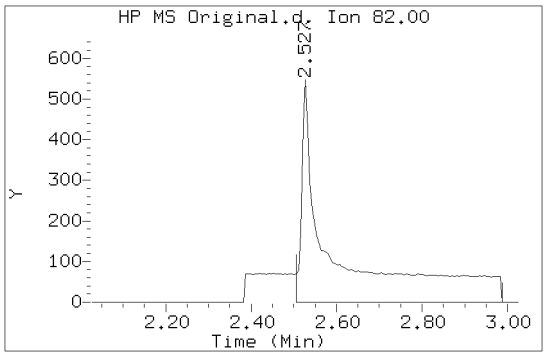
AFTER
MASS
88
AREA
0
HEIGHT
0
22-Jun-2024
09:15



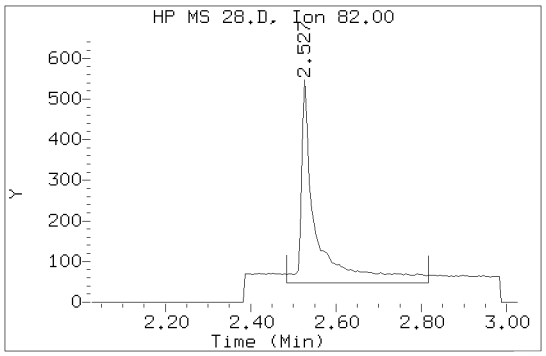
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
2742
HEIGHT
547
21-Jun-2024
20:25
ALSHS
Server



AFTER
MASS
82
AREA
1213
HEIGHT
499
22-Jun-2024
09:15

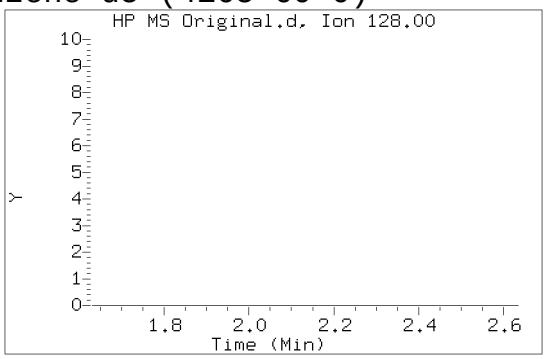


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

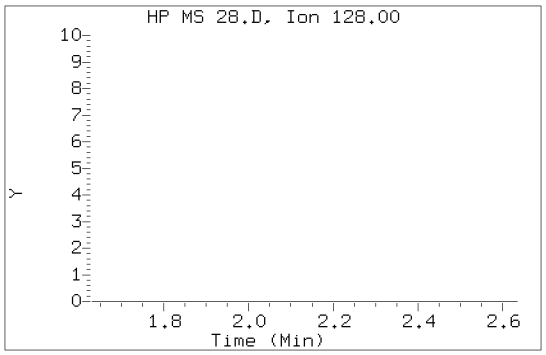
Nitrobenzene-d5 (4165-60-0)

Reason Code:

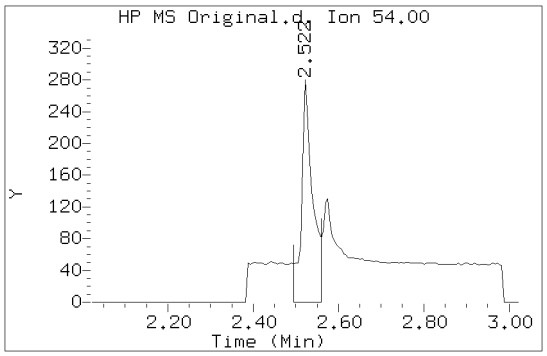
BEFORE
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



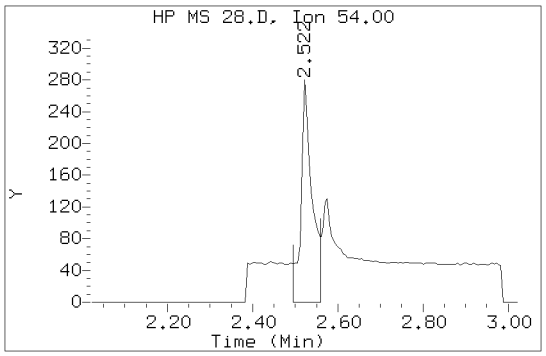
AFTER
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
09:15



BEFORE
MASS
54
AREA
519
HEIGHT
280
21-Jun-2024
20:25
ALSHS
Server



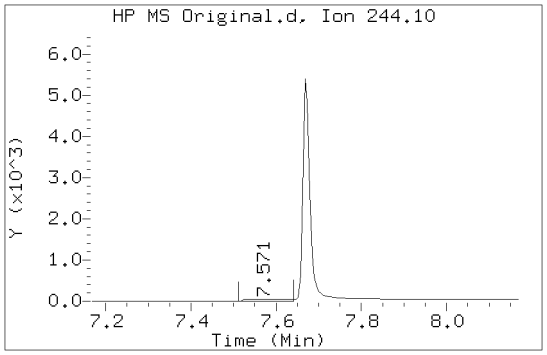
AFTER
MASS
54
AREA
519
HEIGHT
280
22-Jun-2024
09:15



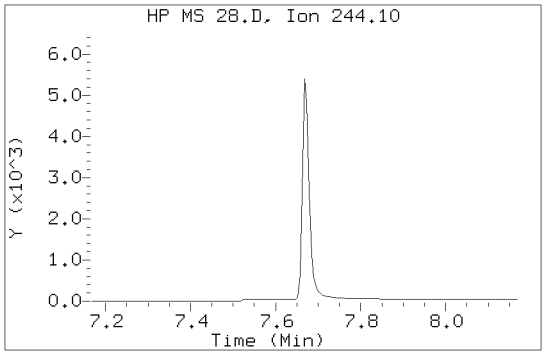
4-Terphenyl-d14 (1718-51-0)

Reason Code:

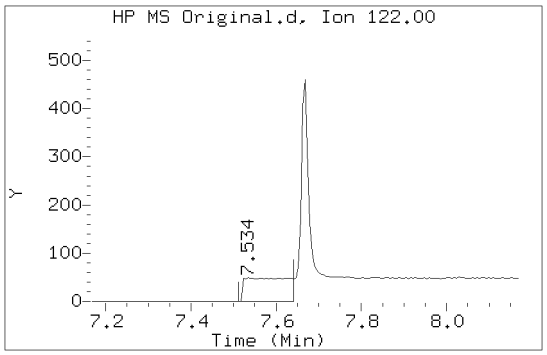
BEFORE
MASS
244.1
AREA
334
HEIGHT
46
21-Jun-2024
20:25
ALSHS
Server



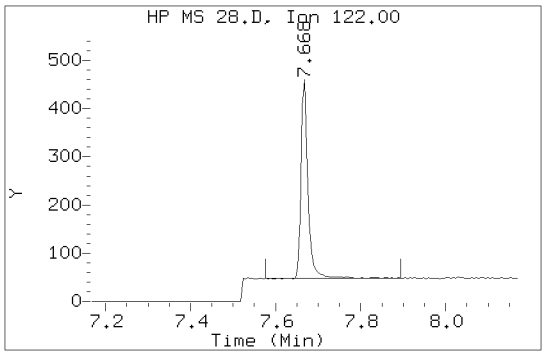
AFTER
MASS
244.1
AREA
8875
HEIGHT
5399
22-Jun-2024
09:15



BEFORE
MASS
122
AREA
353
HEIGHT
49
21-Jun-2024
20:25
ALSHS
Server



AFTER
MASS
122
AREA
470
HEIGHT
412
22-Jun-2024
09:15



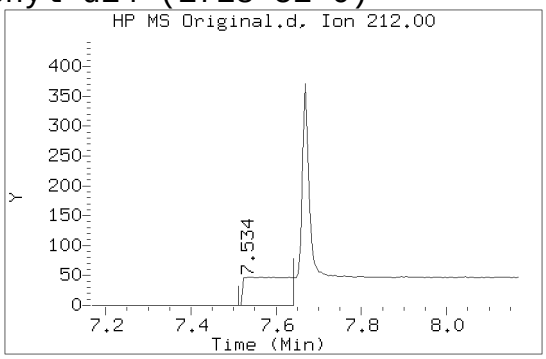
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

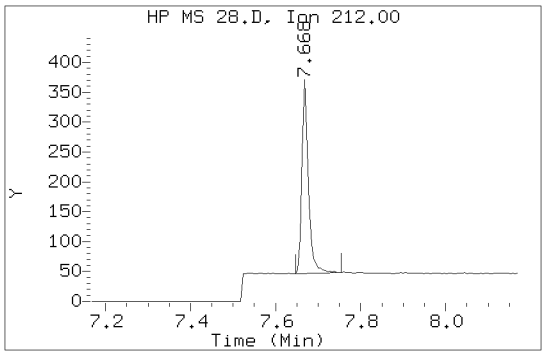
BEFORE

MASS
212
AREA
344
HEIGHT
47
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
212
AREA
346
HEIGHT
324
22-Jun-2024
09:15



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060795

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D Page 1
Report Date: 29-Jun-2024 12:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-JUN-2024 12:31
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 3 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)		
RT	EXP RT	DLT RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
3.972	5.571	-1.599	198	40504			0.00- 100.00	100.00
3.972	6.357	-2.385	51	12124			10.00- 80.00	29.93
3.972	6.357	-2.385	68	250			0.00- 2.00	1.73
3.972	6.357	-2.385	69	14478			0.00- 0.00	35.74
3.972	6.357	-2.385	70	0	0.0	0.0	0.00- 2.00	0.00
3.972	6.357	-2.385	127	17408			10.00- 80.00	42.98
3.972	6.357	-2.385	197	561			0.00- 2.00	1.39
3.972	6.357	-2.385	199	3140			5.00- 9.00	7.75
3.972	6.357	-2.385	275	10308			10.00- 60.00	25.45
3.972	6.357	-2.385	365	1217			1.00- 100.00	3.00
3.972	6.357	-2.385	441	5114			0.01- 99.99	69.48
3.972	6.357	-2.385	442	38496			50.00- 150.00	95.04
3.972	6.357	-2.385	443	7360			15.00- 24.00	19.12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	29.93
68	Less than 2.00% of mass 69	0.62 (1.73)
69	Mass 69 relative abundance	35.74
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	42.98
197	Less than 2.00% of mass 198	1.39
199	5.00 - 9.00% of mass 198	7.75
275	10.00 - 60.00% of mass 198	25.45
365	1.00 - 100.00% of mass 198	3.00
441	Present, but less than mass 443	12.63
442	50.00 - 150.00% of mass 198	95.04
443	15.00 - 24.00% of mass 442	18.17 (19.12)

Data File: 03.D
Spectrum: HP ChemStation MS 03.D, Scan 257: 3.962 min. (SUB)
Location of Maximum: 197.90
Number of points: 163

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	232	110.90	926	180.00	949	244.00	4422
39.00	854	111.90	205	181.00	407	245.00	526
46.90	171	115.80	227	185.00	689	245.90	603
49.00	73	117.00	3129	186.00	4989	246.80	221
50.00	3089	117.90	240	187.00	1285	255.00	22784
51.10	12124	121.90	365	187.90	171	255.90	3534
52.00	618	123.00	441	188.90	333	257.00	292
56.00	438	123.90	183	191.90	356	258.00	921
56.90	797	125.00	234	192.90	460	265.00	567
61.90	181	127.00	17408	194.00	158	273.00	881
63.00	464	128.00	1208	195.90	1162	274.00	2019
64.90	308	129.00	6850	197.00	561	275.00	10308
68.00	250	129.90	715	197.90	40504	275.90	1432
69.00	14478	134.90	501	198.90	3140	276.90	677
74.00	1442	136.00	182	199.90	261	285.00	198
75.00	2262	136.90	164	201.40	243	292.90	155
76.00	850	140.90	789	202.80	256	295.90	2488
77.00	14465	142.00	237	204.00	1389	296.80	394
78.00	1171	142.90	245	205.00	2175	302.90	232
79.00	922	146.00	219	206.00	10188	315.00	169
79.90	782	146.90	468	207.00	1388	323.00	961
81.00	1274	148.00	648	207.90	471	323.80	152
82.00	206	149.00	180	208.80	161	327.00	172
83.00	266	152.90	229	210.00	170	333.90	779
83.90	109	154.00	152	211.20	467	352.00	213
85.00	240	155.00	474	215.90	328	353.10	184
85.90	313	156.00	697	216.90	2636	354.10	388
90.90	280	156.90	212	217.90	397	365.00	1217
91.90	165	158.00	162	221.00	2132	365.80	272
93.00	1758	159.80	325	222.90	748	372.00	265
94.00	218	160.90	383	224.00	5961	401.70	227
98.00	1149	165.00	290	225.00	1482	402.80	355
98.90	974	166.00	315	225.80	161	420.90	243
101.00	790	166.90	1675	227.00	1993	422.00	280
103.00	280	167.90	624	228.00	343	423.00	1749
103.90	444	172.90	208	228.90	375	424.00	348
104.90	406	174.00	288	230.90	228	441.00	5114
107.00	4597	175.00	609	233.90	223	442.00	38496
108.00	672	176.10	168	237.00	201	443.00	7360
109.20	178	176.90	361	241.90	261	443.90	811
110.00	9247	179.00	1338	242.90	311		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D Page 1

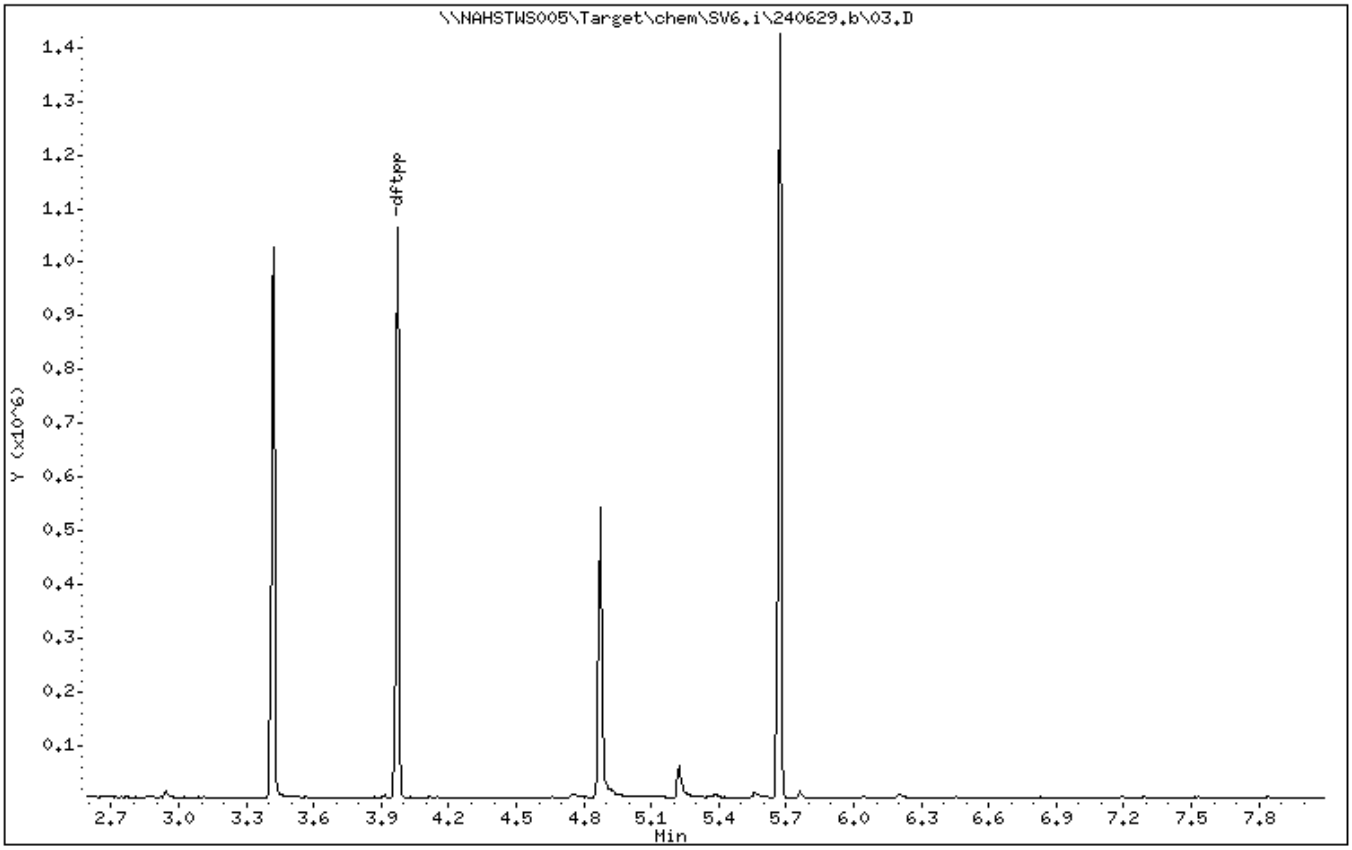
Date : 29-JUN-2024 12:31

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D

Date : 29-JUN-2024 12:31

Client ID: DFTPP

Instrument: SV6.i

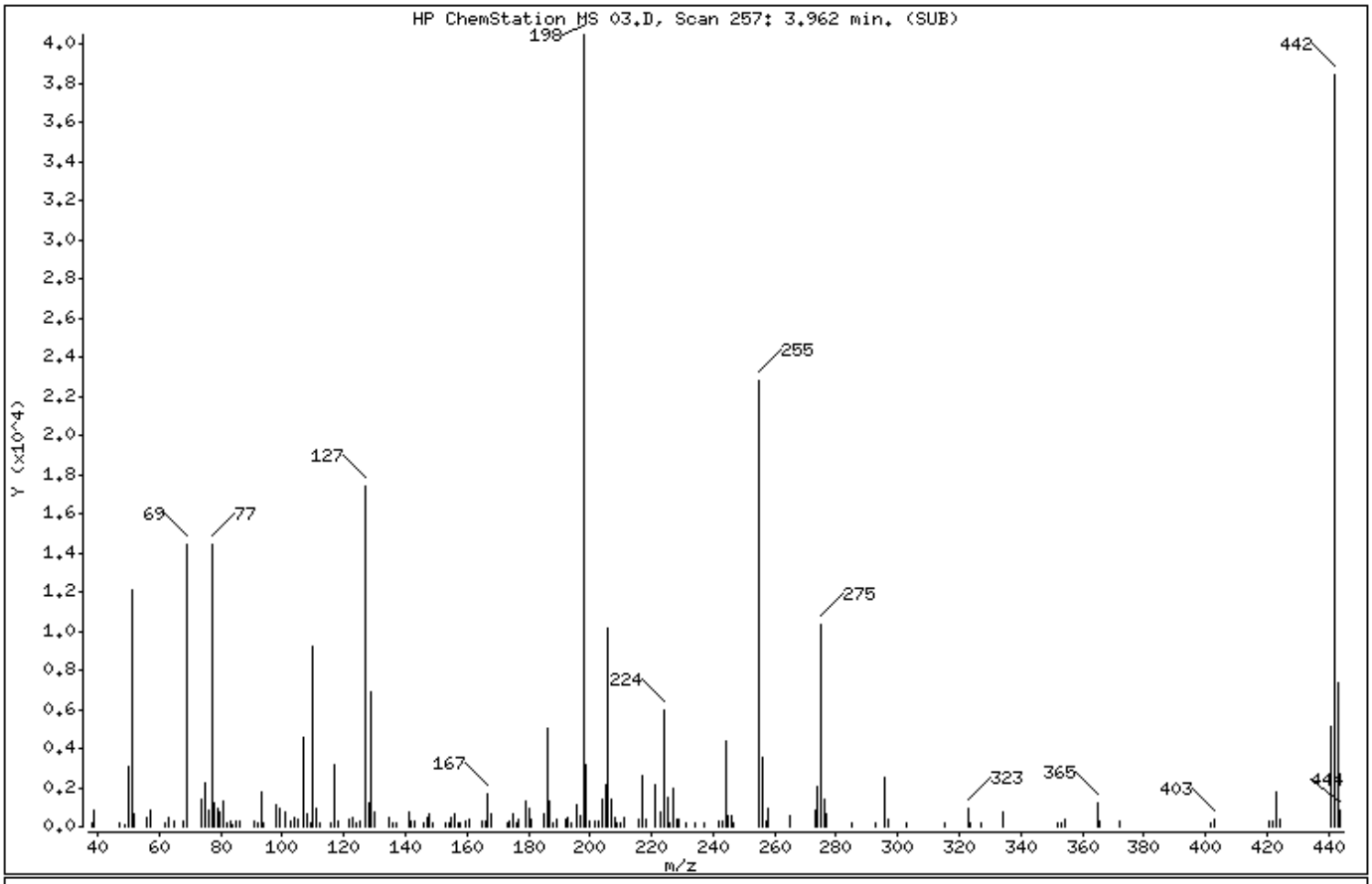
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	29.93
68	Less than 2.00% of mass 69	0.62 (1.73)
69	Mass 69 relative abundance	35.74
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	42.98
197	Less than 2.00% of mass 198	1.39
199	5.00 - 9.00% of mass 198	7.75
275	10.00 - 60.00% of mass 198	25.45
365	1.00 - 100.00% of mass 198	3.00
441	Present, but less than mass 443	12.63
442	50.00 - 150.00% of mass 198	95.04
443	15.00 - 24.00% of mass 442	18.17 (19.12)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D Page 3

Date : 29-JUN-2024 12:31

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 03.D
Spectrum: HP ChemStation MS 03.D, Scan 257: 3.962 min. (SUB)
Location of Maximum: 197.90
Number of points: 163

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	232	110.90	926	180.00	949	244.00	4422
39.00	854	111.90	205	181.00	407	245.00	526
46.90	171	115.80	227	185.00	689	245.90	603
49.00	73	117.00	3129	186.00	4989	246.80	221
50.00	3089	117.90	240	187.00	1285	255.00	22784
51.10	12124	121.90	365	187.90	171	255.90	3534
52.00	618	123.00	441	188.90	333	257.00	292
56.00	438	123.90	183	191.90	356	258.00	921
56.90	797	125.00	234	192.90	460	265.00	567
61.90	181	127.00	17408	194.00	158	273.00	881
63.00	464	128.00	1208	195.90	1162	274.00	2019
64.90	308	129.00	6850	197.00	561	275.00	10308
68.00	250	129.90	715	197.90	40504	275.90	1432
69.00	14478	134.90	501	198.90	3140	276.90	677
74.00	1442	136.00	182	199.90	261	285.00	198
75.00	2262	136.90	164	201.40	243	292.90	155
76.00	850	140.90	789	202.80	256	295.90	2488
77.00	14465	142.00	237	204.00	1389	296.80	394
78.00	1171	142.90	245	205.00	2175	302.90	232
79.00	922	146.00	219	206.00	10188	315.00	169
79.90	782	146.90	468	207.00	1388	323.00	961
81.00	1274	148.00	648	207.90	471	323.80	152
82.00	206	149.00	180	208.80	161	327.00	172
83.00	266	152.90	229	210.00	170	333.90	779
83.90	109	154.00	152	211.20	467	352.00	213
85.00	240	155.00	474	215.90	328	353.10	184
85.90	313	156.00	697	216.90	2636	354.10	388
90.90	280	156.90	212	217.90	397	365.00	1217
91.90	165	158.00	162	221.00	2132	365.80	272
93.00	1758	159.80	325	222.90	748	372.00	265
94.00	218	160.90	383	224.00	5961	401.70	227
98.00	1149	165.00	290	225.00	1482	402.80	355
98.90	974	166.00	315	225.80	161	420.90	243
101.00	790	166.90	1675	227.00	1993	422.00	280
103.00	280	167.90	624	228.00	343	423.00	1749

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D Page 4

Date : 29-JUN-2024 12:31

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 03.D
Spectrum: HP ChemStation MS 03.D, Scan 257: 3.962 min. (SUB)
Location of Maximum: 197.90
Number of points: 163

m/z	Y	m/z	Y	m/z	Y	m/z	Y
103.90	444	172.90	208	228.90	375	424.00	348
104.90	406	174.00	288	230.90	228	441.00	5114
107.00	4597	175.00	609	233.90	223	442.00	38496
108.00	672	176.10	168	237.00	201	443.00	7360
109.20	178	176.90	361	241.90	261	443.90	811
110.00	9247	179.00	1338	242.90	311		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 29-JUN-2024 13:58
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 29-Jun-2024 14:15 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	1.926	1.926	(1.000)	1993	0.10000	(aQM)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	7115	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	1487	0.08000	0.06962(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	4286	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	3.862	3.862	(0.866)	4598	0.08000	0.07018(M)
* 126 Phenanthrene-d10	188	5.849	5.849	(1.000)	8105	0.10000	
* 182 Chrysene-d12	240	8.361	8.361	(1.000)	6578	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.887)	8581	0.08000	0.06403(M)
* 198 Perylene-d12	264	9.856	9.856	(1.000)	6794	0.10000	
1 1,4-Dioxane	58	0.778	0.778	(0.404)	287	0.08000	0.06723(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D

Date : 29-JUN-2024 13:58

Client ID: 14DX-0.08

Instrument: SV6.i

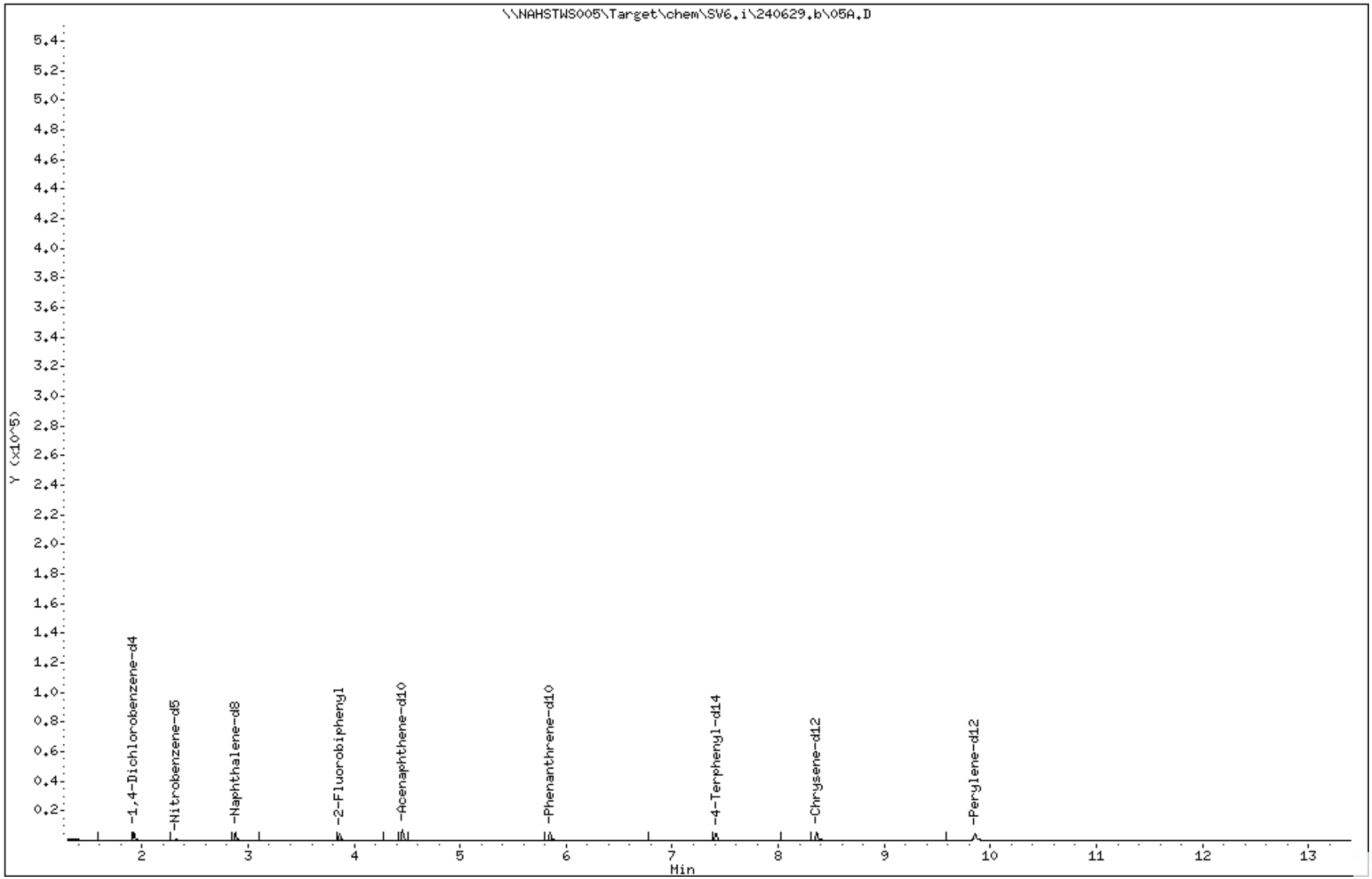
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



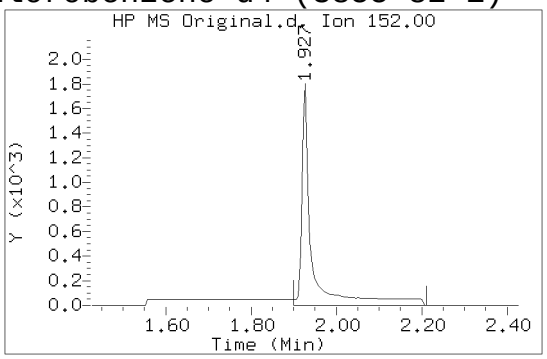
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

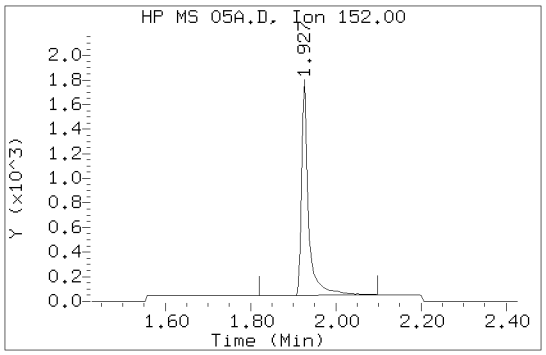
BEFORE

MASS
152
AREA
2940
HEIGHT
1802
29-Jun-2024
14:13
ALSHS
Server



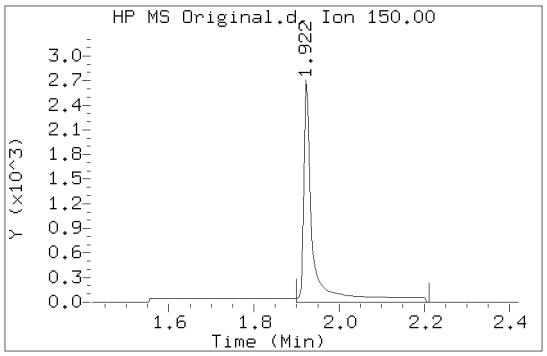
AFTER

MASS
152
AREA
1993
HEIGHT
1752
29-Jun-2024
14:15



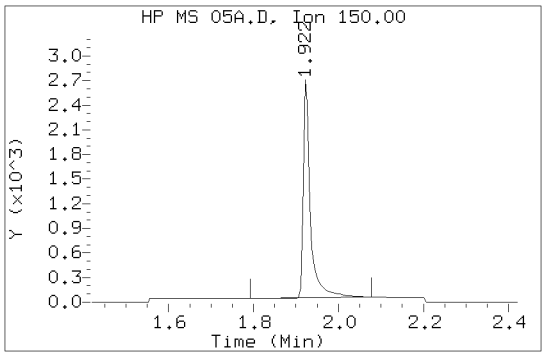
BEFORE

MASS
150
AREA
4154
HEIGHT
2708
29-Jun-2024
14:13
ALSHS
Server



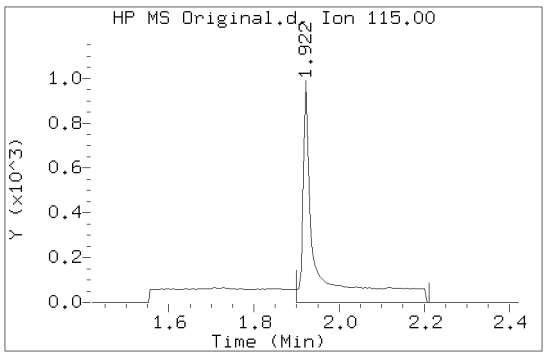
AFTER

MASS
150
AREA
3076
HEIGHT
2653
29-Jun-2024
14:15



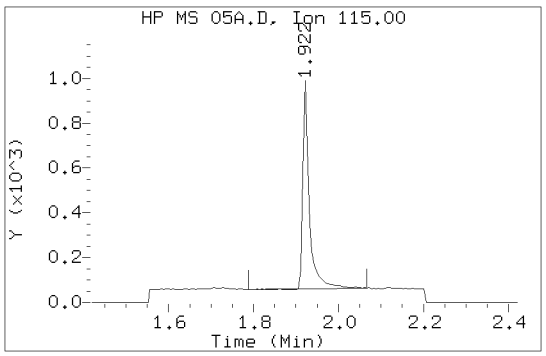
BEFORE

MASS
115
AREA
2134
HEIGHT
990
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
115
AREA
1012
HEIGHT
930
29-Jun-2024
14:15

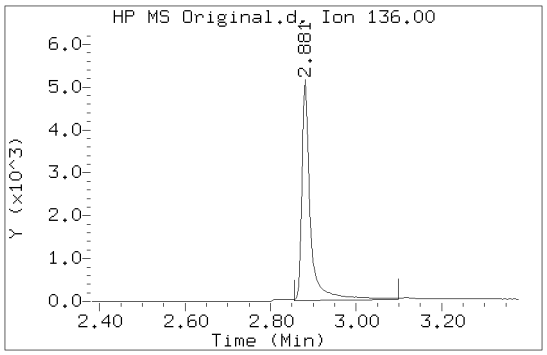


Naphthalene-d8 (1146-65-2)

Reason Code:

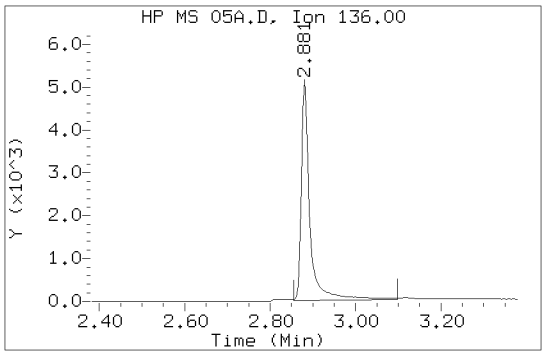
BEFORE

MASS
136
AREA
7115
HEIGHT
5157
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
136
AREA
7115
HEIGHT
5157
29-Jun-2024
14:15

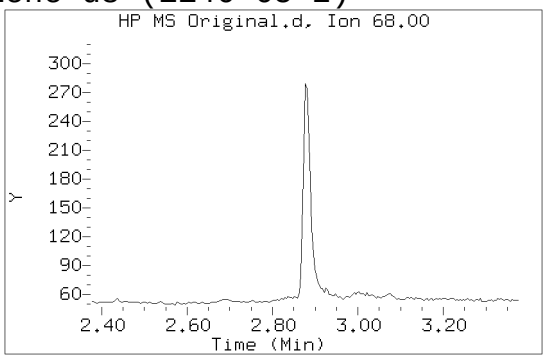


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

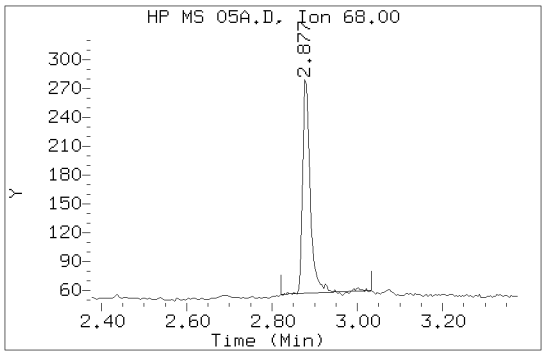
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



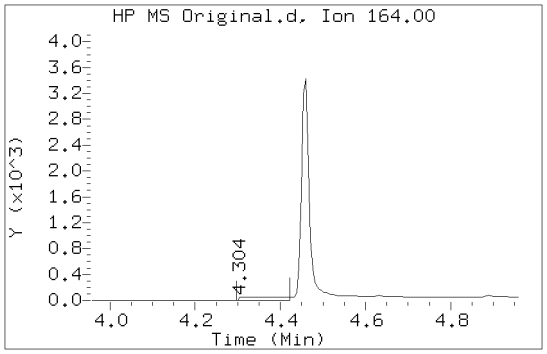
AFTER
MASS
68
AREA
273
HEIGHT
221
29-Jun-2024
14:15



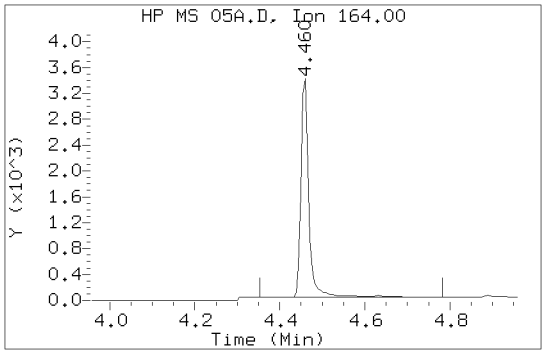
Acenaphthene-d10 (15067-26-2)

Reason Code:

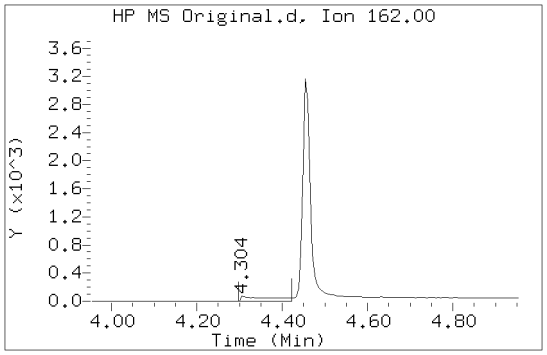
BEFORE
MASS
164
AREA
356
HEIGHT
52
29-Jun-2024
14:13
ALSHS
Server



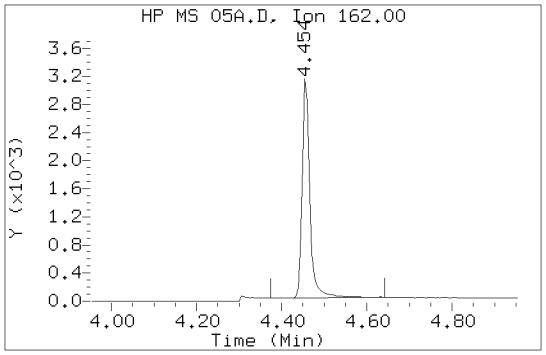
AFTER
MASS
164
AREA
4286
HEIGHT
3377
29-Jun-2024
14:15



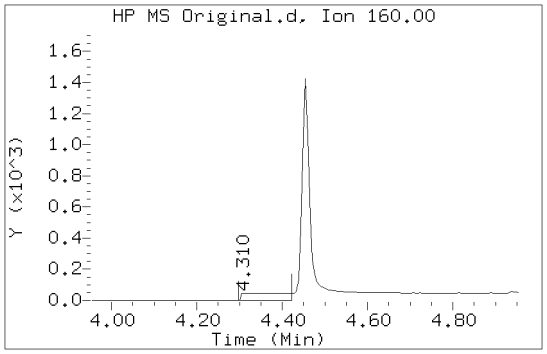
BEFORE
MASS
162
AREA
367
HEIGHT
75
29-Jun-2024
14:13
ALSHS
Server



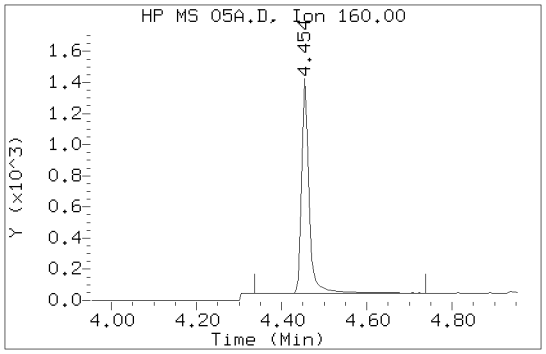
AFTER
MASS
162
AREA
3825
HEIGHT
3112
29-Jun-2024
14:15



BEFORE
MASS
160
AREA
332
HEIGHT
47
29-Jun-2024
14:13
ALSHS
Server



AFTER
MASS
160
AREA
1655
HEIGHT
1377
29-Jun-2024
14:15

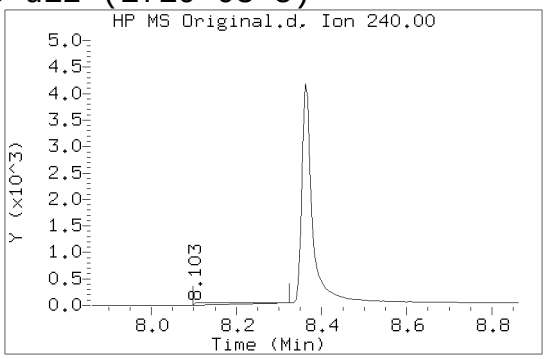


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

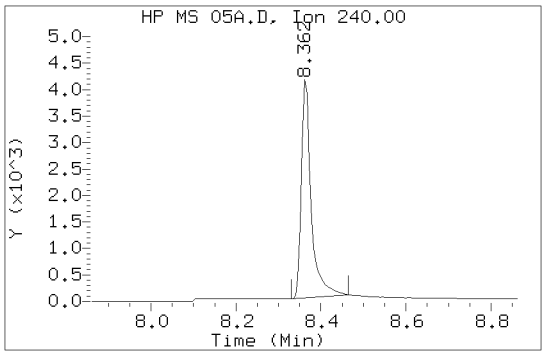
Chrysene-d12 (1719-03-5)

Reason Code:

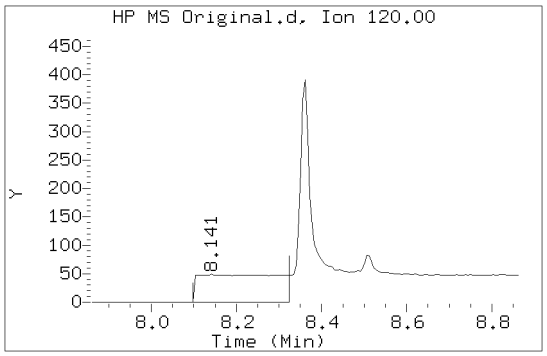
BEFORE
MASS
240
AREA
295
HEIGHT
43
29-Jun-2024
14:13
ALSHS
Server



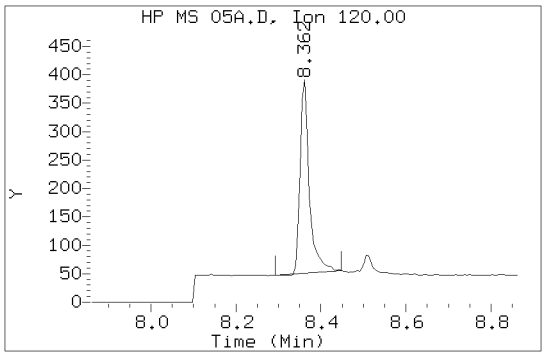
AFTER
MASS
240
AREA
6578
HEIGHT
4123
29-Jun-2024
14:15



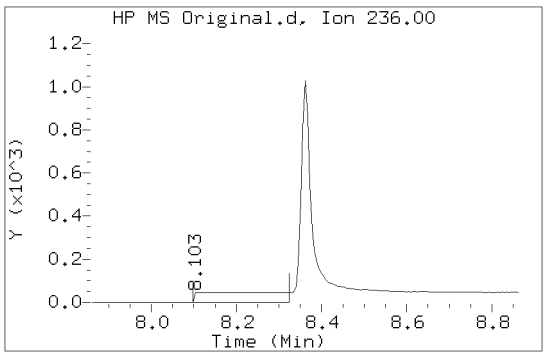
BEFORE
MASS
120
AREA
640
HEIGHT
50
29-Jun-2024
14:13
ALSHS
Server



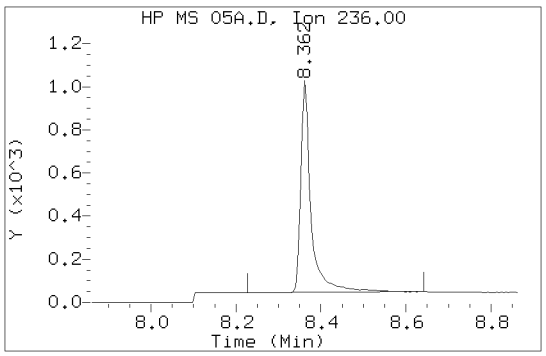
AFTER
MASS
120
AREA
509
HEIGHT
340
29-Jun-2024
14:15



BEFORE
MASS
236
AREA
612
HEIGHT
46
29-Jun-2024
14:13
ALSHS
Server



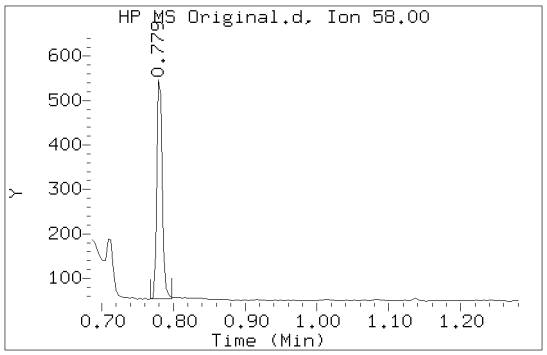
AFTER
MASS
236
AREA
1625
HEIGHT
981
29-Jun-2024
14:15



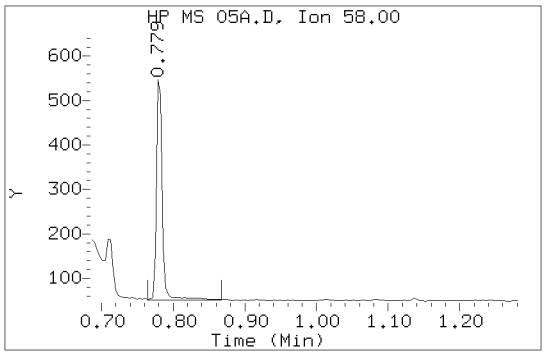
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
266
HEIGHT
493
29-Jun-2024
14:13
ALSHS
Server



AFTER
MASS
58
AREA
287
HEIGHT
496
29-Jun-2024
14:15

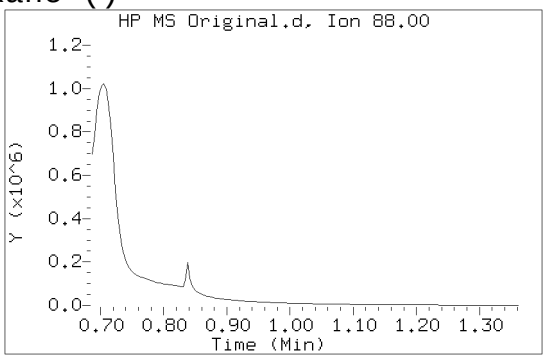


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

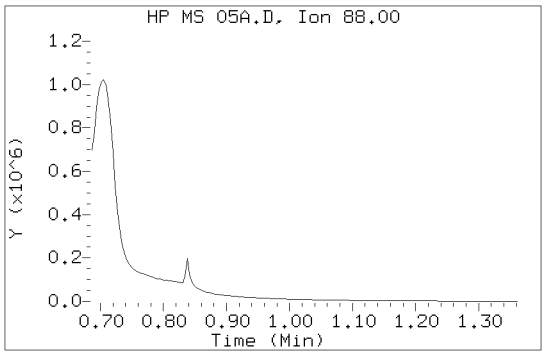
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



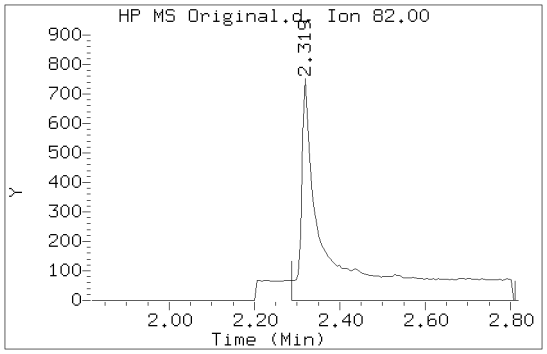
AFTER
MASS
88
AREA
0
HEIGHT
0
29-Jun-2024
14:15



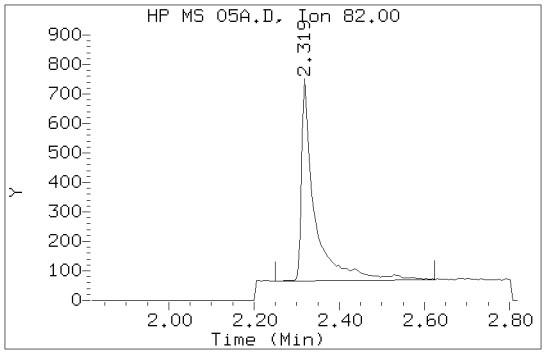
Nitrobenzene-d5 (4165-60-0)

Reason Code:

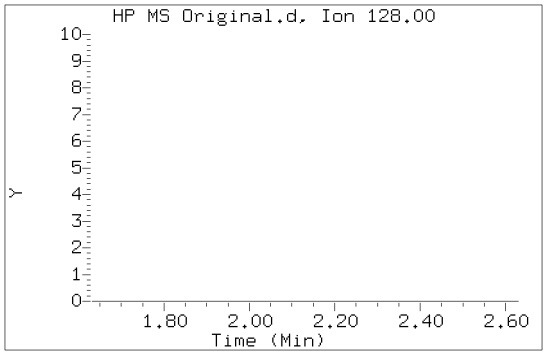
BEFORE
MASS
82
AREA
3627
HEIGHT
752
29-Jun-2024
14:13
ALSHS
Server



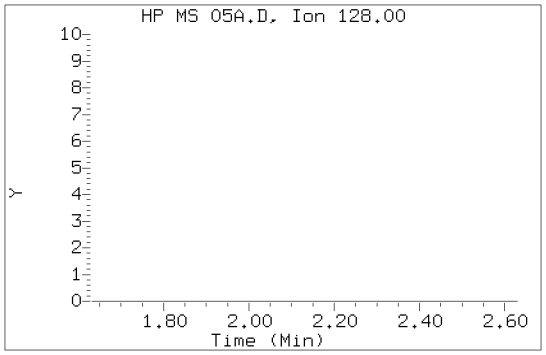
AFTER
MASS
82
AREA
1487
HEIGHT
686
29-Jun-2024
14:15



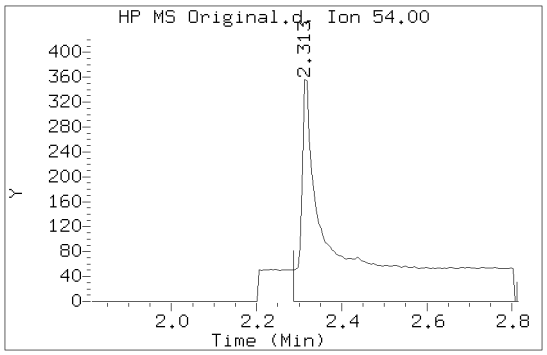
BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



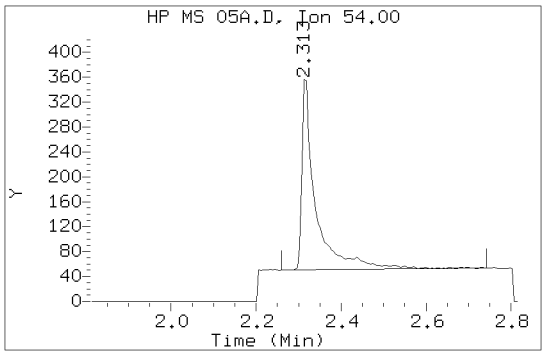
AFTER
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
14:15



BEFORE
MASS
54
AREA
2320
HEIGHT
356
29-Jun-2024
14:13
ALSHS
Server



AFTER
MASS
54
AREA
696
HEIGHT
305
29-Jun-2024
14:15



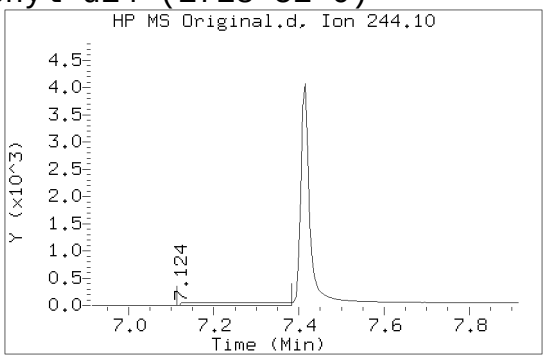
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

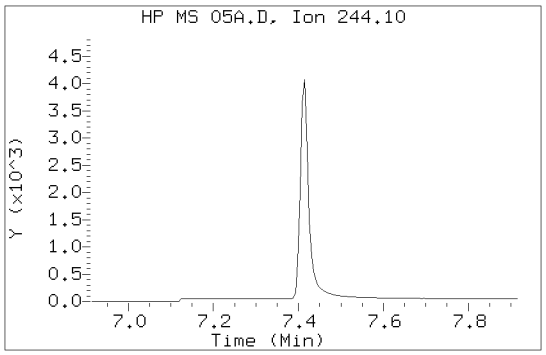
BEFORE

MASS
244.1
AREA
704
HEIGHT
45
29-Jun-2024
14:13
ALSHS
Server



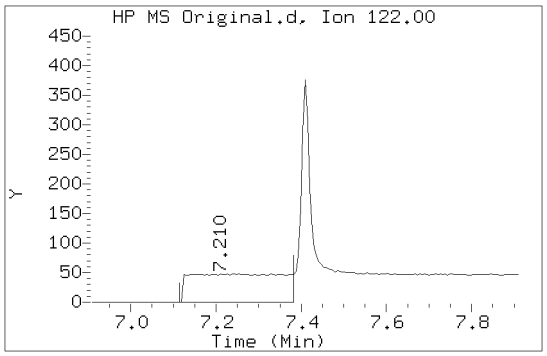
AFTER

MASS
244.1
AREA
8581
HEIGHT
4073
29-Jun-2024
14:15



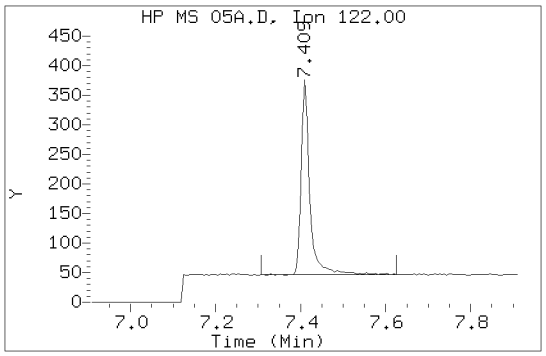
BEFORE

MASS
122
AREA
740
HEIGHT
48
29-Jun-2024
14:13
ALSHS
Server



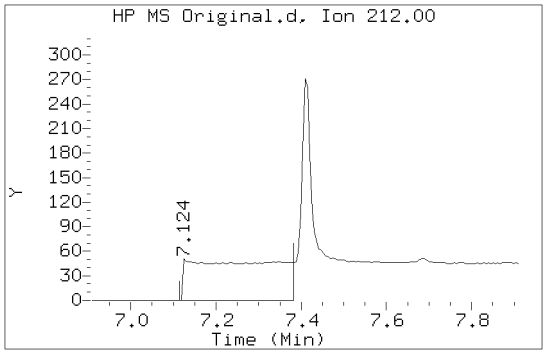
AFTER

MASS
122
AREA
455
HEIGHT
329
29-Jun-2024
14:15



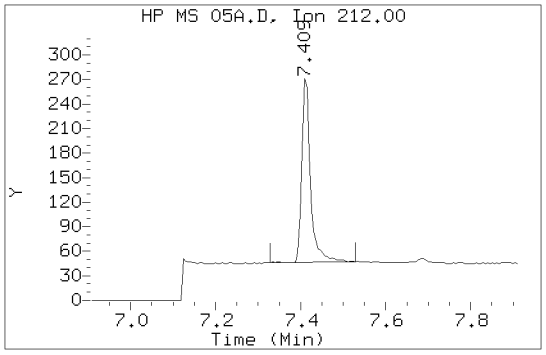
BEFORE

MASS
212
AREA
725
HEIGHT
51
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
212
AREA
318
HEIGHT
224
29-Jun-2024
14:15

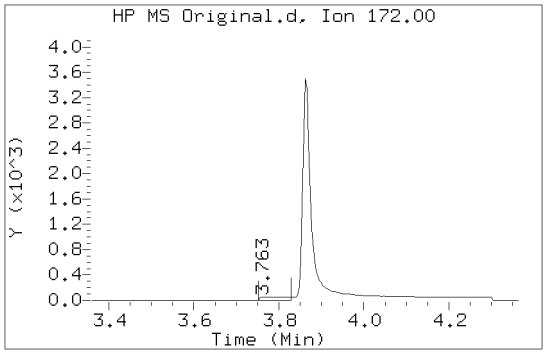


2-Fluorobiphenyl (321-60-8)

Reason Code:

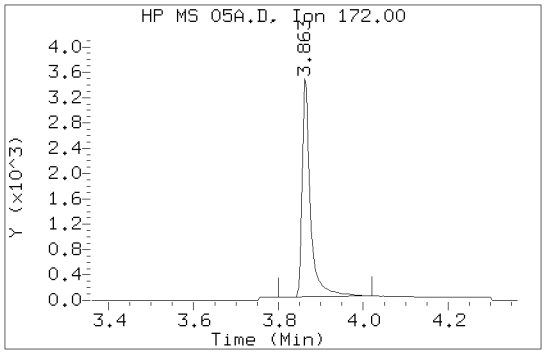
BEFORE

MASS
172
AREA
215
HEIGHT
47
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
172
AREA
4598
HEIGHT
3444
29-Jun-2024
14:15



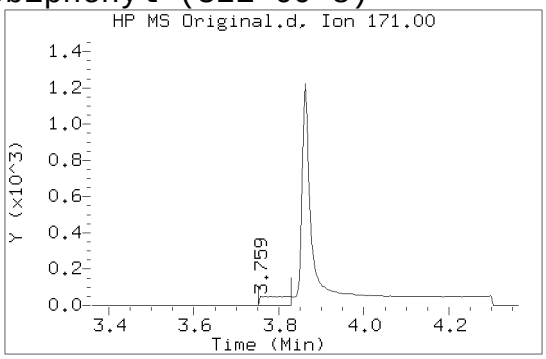
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

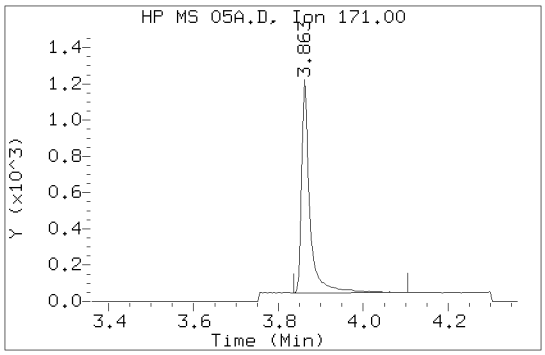
BEFORE

MASS
171
AREA
222
HEIGHT
49
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
171
AREA
1572
HEIGHT
1176
29-Jun-2024
14:15



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\06.D Page 1
Report Date: 18-Jul-2024 13:15

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\06.D
Lab Smp Id: HS24060795-01
Inj Date : 29-JUN-2024 14:23
Operator : LG Inst ID: SV6.i
Smp Info : HS24060795-01X10
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 18-Jul-2024 13:14 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 6
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	1.921	1.916	(1.000)	3372	0.10000	(aQ)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	8356	0.10000	
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	239	0.00953	0.09527(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	5549	0.10000	
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	786	0.00927	0.09266(M)
* 126 Phenanthrene-d10	188	5.850	5.855	(1.000)	9708	0.10000	
* 182 Chrysene-d12	240	8.361	8.366	(1.000)	9466	0.10000	
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.887)	1590	0.00825	0.08245(M)
* 198 Perylene-d12	264	9.856	9.861	(1.000)	9547	0.10000	
1 1,4-Dioxane	58	0.767	0.719	(0.400)	485	0.06715	0.6715(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\06.D

Date : 29-JUN-2024 14:23

Client ID:

Instrument: SV6.i

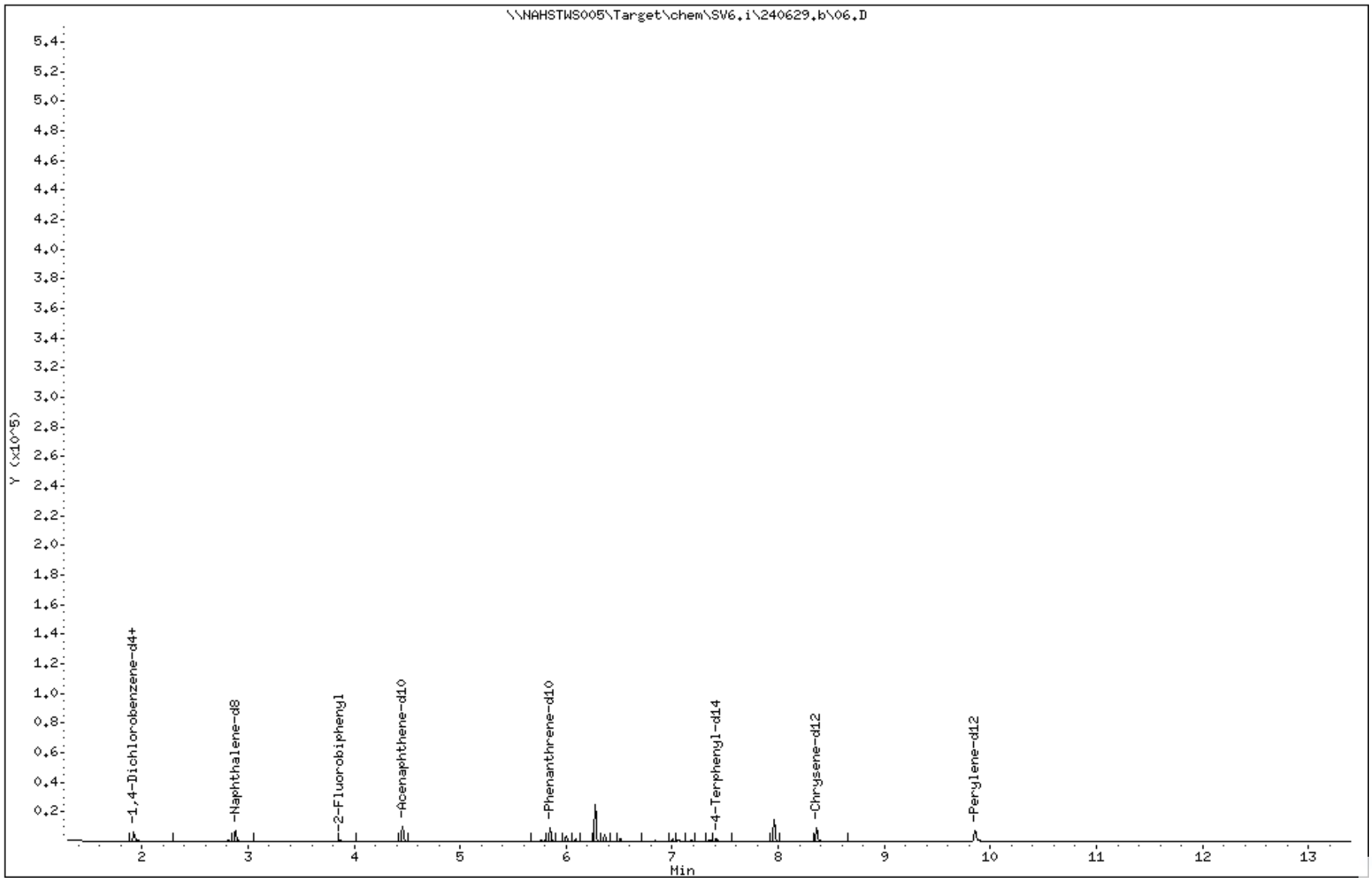
Sample Info: HS24060795-01X10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\06.D

Date : 29-JUN-2024 14:23

Client ID:

Instrument: SV6.i

Sample Info: HS24060795-01X10

Purge Volume: 1000.0

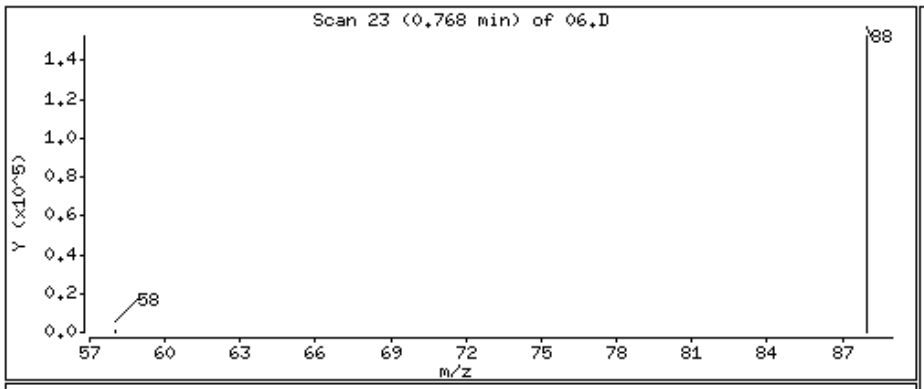
Operator: LG

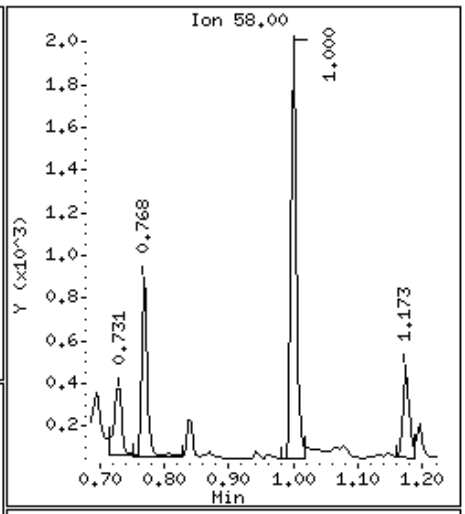
Column phase: RTX-5SIL MS

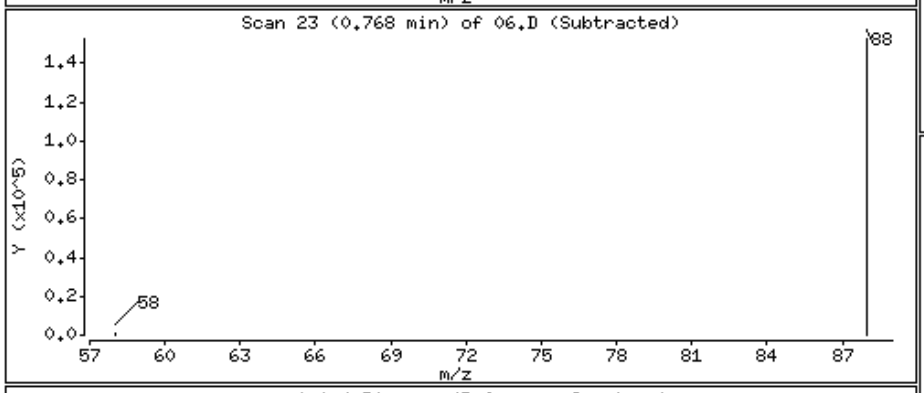
Column diameter: 0.28

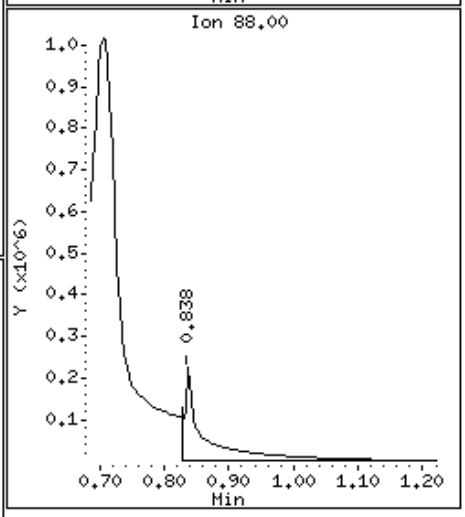
1 1,4-Dioxane

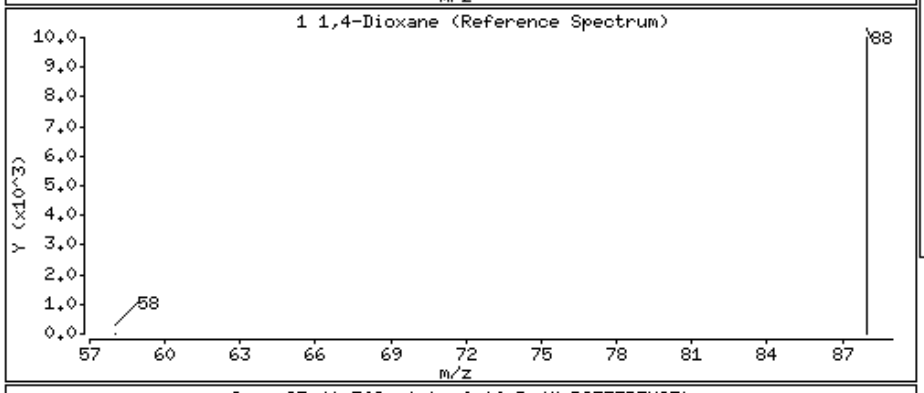
Concentration: 0.6715 ug/L

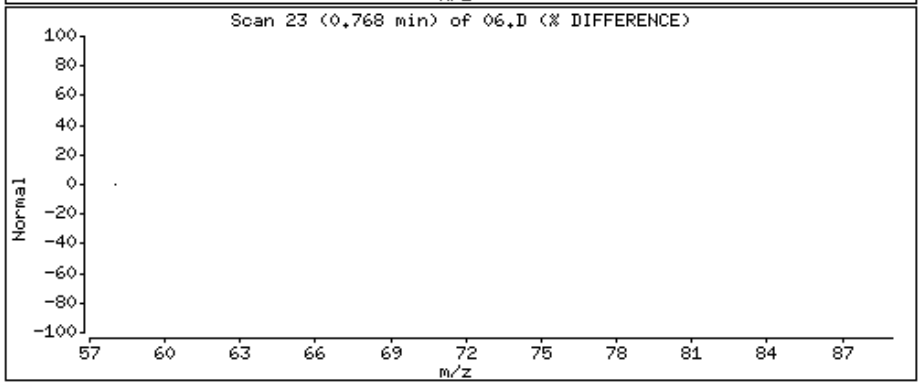












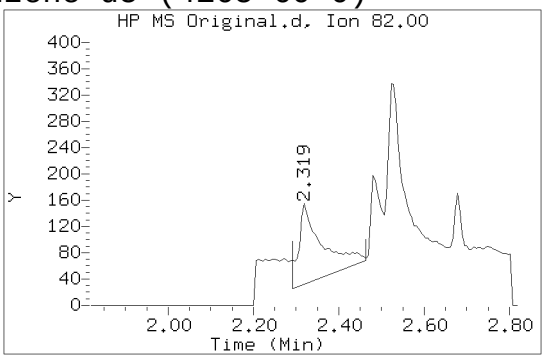
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\06.D
Inj Date : 29-JUN-2024 14:23
InstruID : SV6.i
LabSampID : HS24060795-01

Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

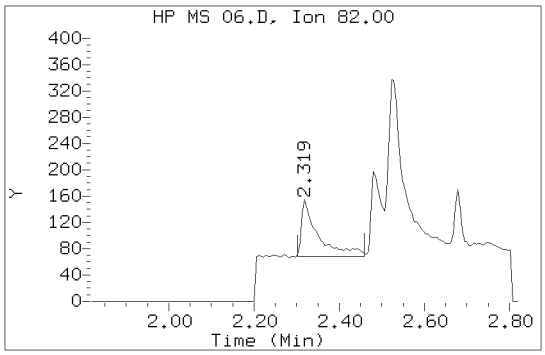
BEFORE

MASS
82
AREA
468
HEIGHT
123
29-Jun-2024
14:40
ALSHS
Server



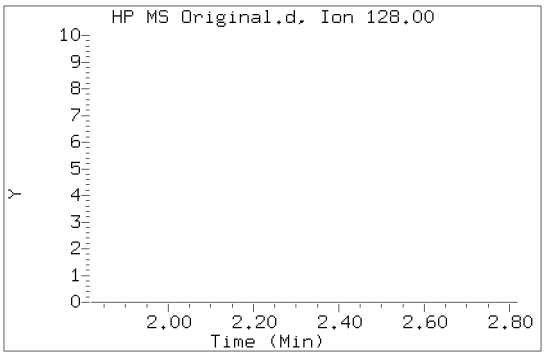
AFTER

MASS
82
AREA
239
HEIGHT
87
18-Jul-2024
13:15
ALSHS
Serve



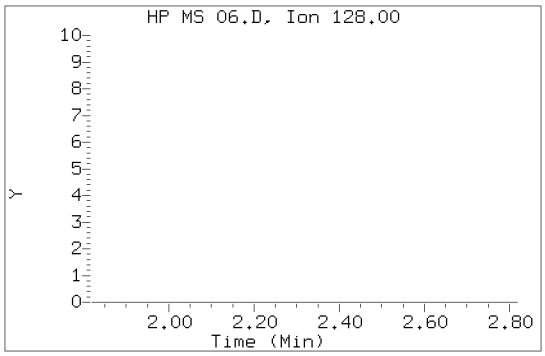
BEFORE

MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
14:40
ALSHS
Server



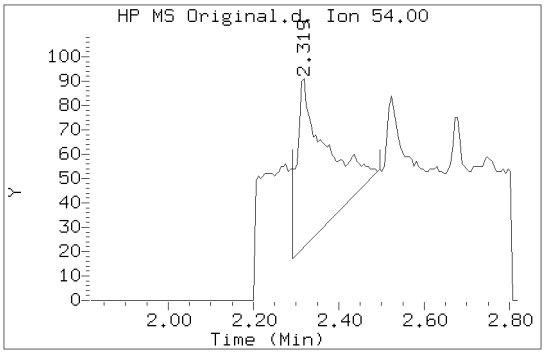
AFTER

MASS
128
AREA
0
HEIGHT
0
18-Jul-2024
13:15
ALSHS
Serve



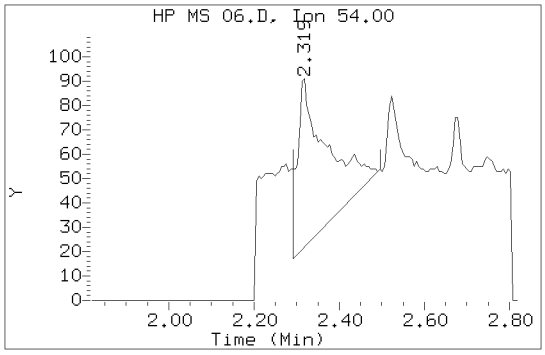
BEFORE

MASS
54
AREA
328
HEIGHT
69
29-Jun-2024
14:40
ALSHS
Server



AFTER

MASS
54
AREA
328
HEIGHT
69
18-Jul-2024
13:15
ALSHS
Serve

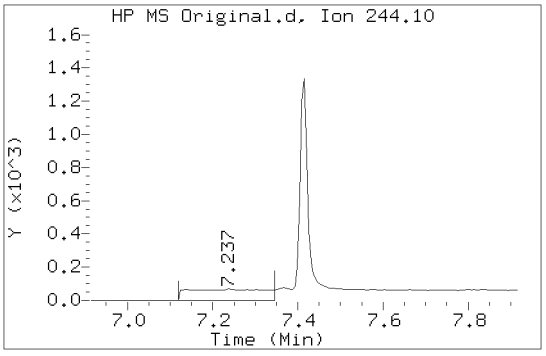


4-Terphenyl-d14 (1718-51-0)

Reason Code:

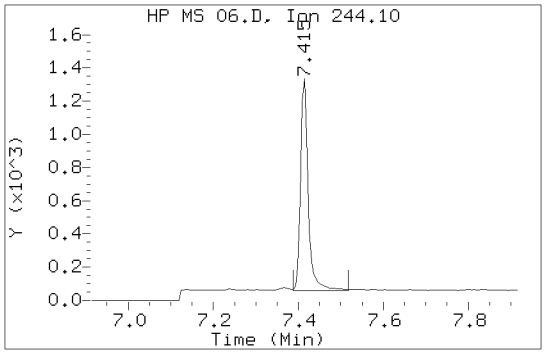
BEFORE

MASS
244.1
AREA
843
HEIGHT
69
29-Jun-2024
14:40
ALSHS
Server



AFTER

MASS
244.1
AREA
1590
HEIGHT
1277
18-Jul-2024
13:15
ALSHS
Serve



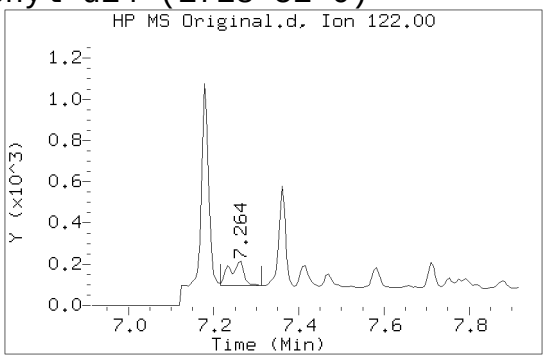
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\06.D
Inj Date : 29-JUN-2024 14:23
InstruID : SV6.i
LabSampID : HS24060795-01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

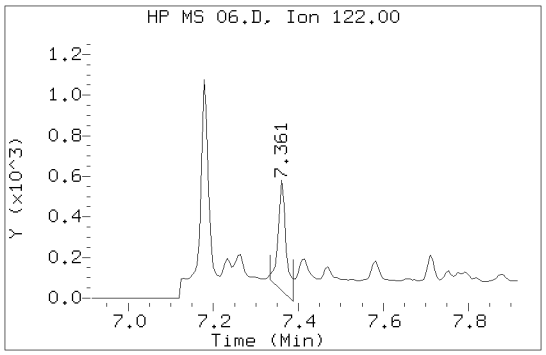
BEFORE

MASS
122
AREA
287
HEIGHT
119
29-Jun-2024
14:40
ALSHS
Server



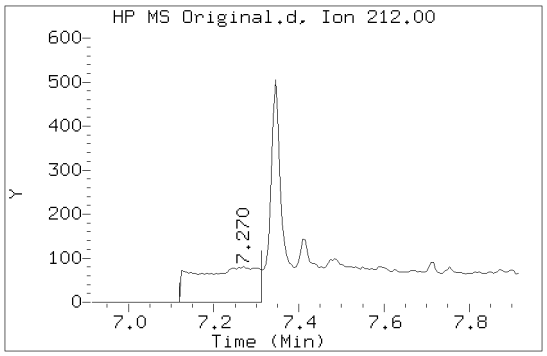
AFTER

MASS
122
AREA
735
HEIGHT
543
18-Jul-2024
13:15
ALSHS
Serve



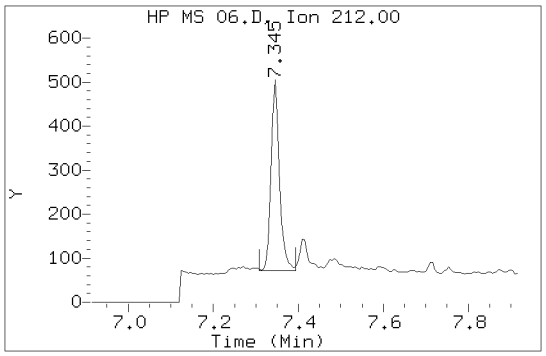
BEFORE

MASS
212
AREA
817
HEIGHT
82
29-Jun-2024
14:40
ALSHS
Server



AFTER

MASS
212
AREA
598
HEIGHT
434
18-Jul-2024
13:15
ALSHS
Serve

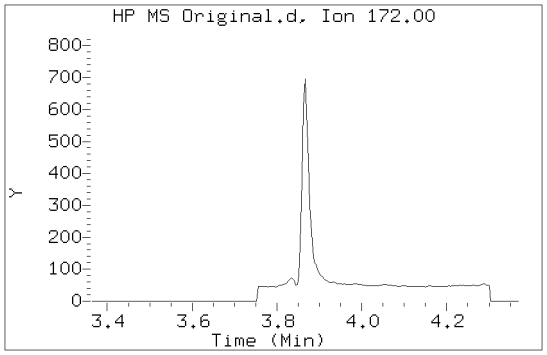


2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

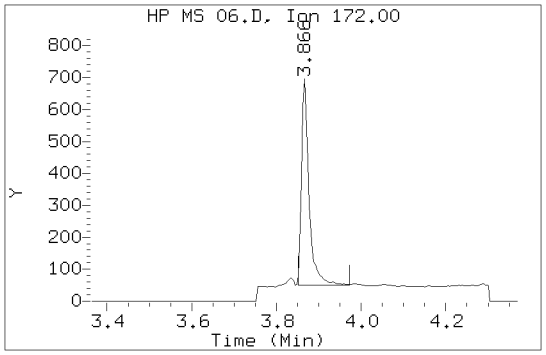
BEFORE

MASS
172
AREA
0
HEIGHT
0
29-Jun-2024
14:40
ALSHS
Server



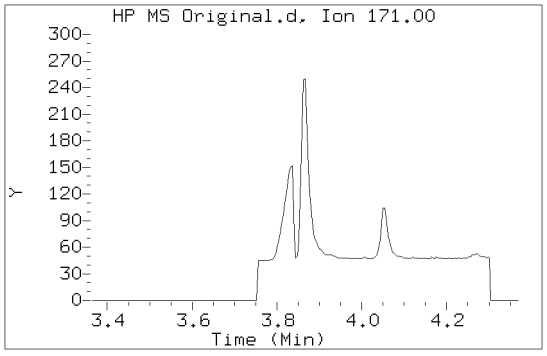
AFTER

MASS
172
AREA
786
HEIGHT
646
18-Jul-2024
13:15
ALSHS
Serve



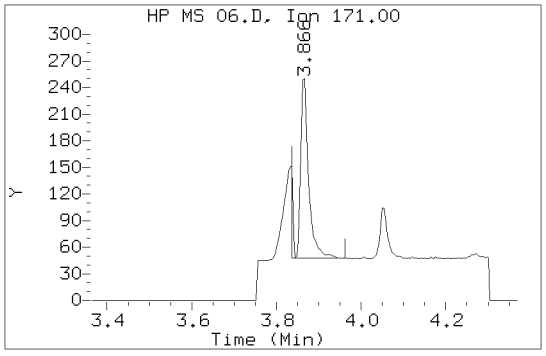
BEFORE

MASS
171
AREA
0
HEIGHT
0
29-Jun-2024
14:40
ALSHS
Server



AFTER

MASS
171
AREA
285
HEIGHT
202
18-Jul-2024
13:15
ALSHS
Serve



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 29-JUN-2024 19:19
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	1.916	1.916	(1.000)	1978	0.10000	(aQ)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	6976	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	1381	0.08000	0.06594(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	2152	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	2393	0.08000	0.07274(M)
* 126 Phenanthrene-d10	188	5.855	5.855	(1.000)	6903	0.10000	(M)
* 182 Chrysene-d12	240	8.366	8.366	(1.000)	6088	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.886)	5754	0.08000	0.04639(M)
* 198 Perylene-d12	264	9.861	9.861	(1.000)	7898	0.10000	(M)
1 1,4-Dioxane	58	0.719	0.719	(0.376)	285	0.08000	0.06727(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D

Date : 29-JUN-2024 19:19

Client ID: 14DX-0.08

Instrument: SV6.i

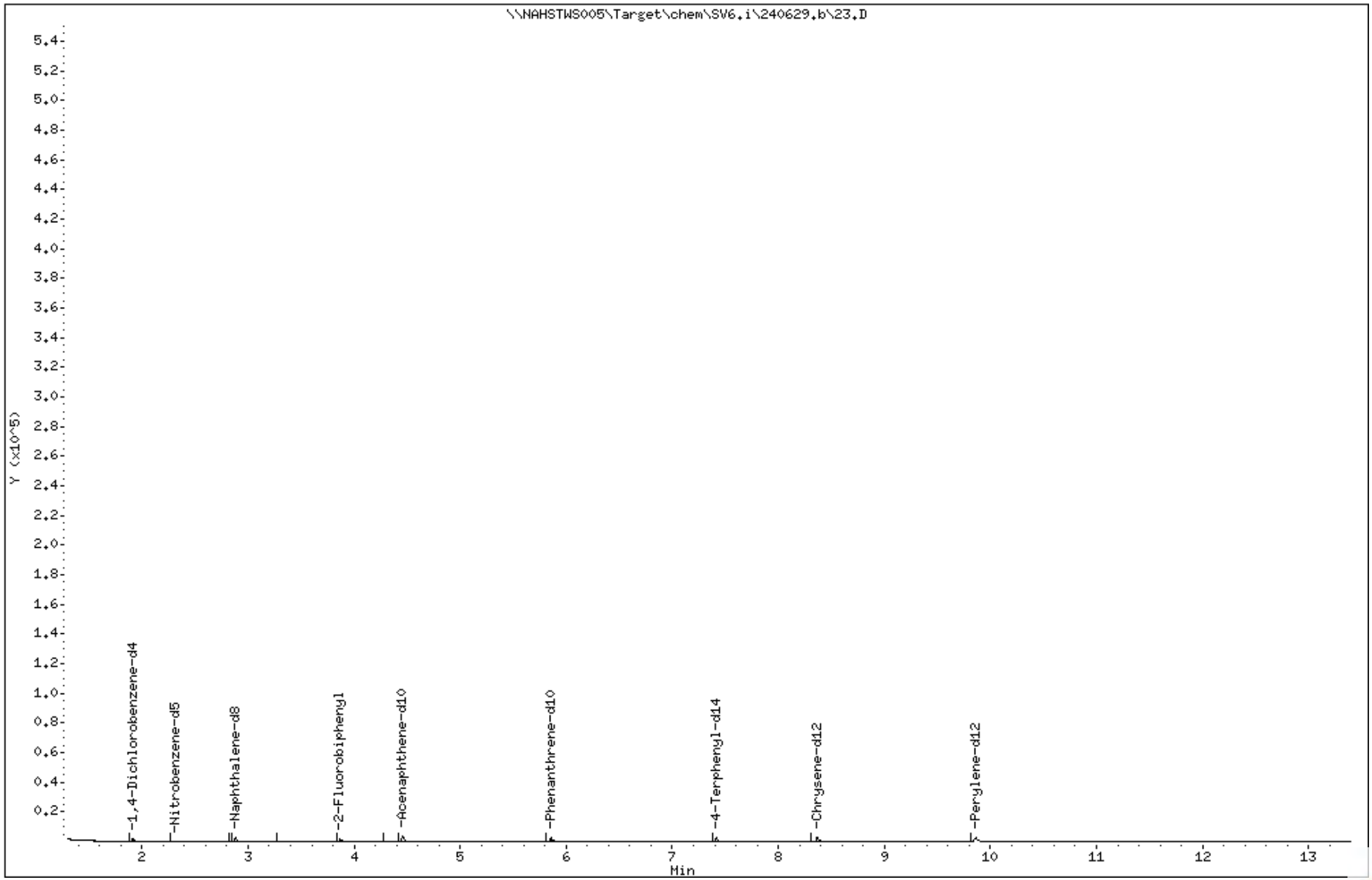
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

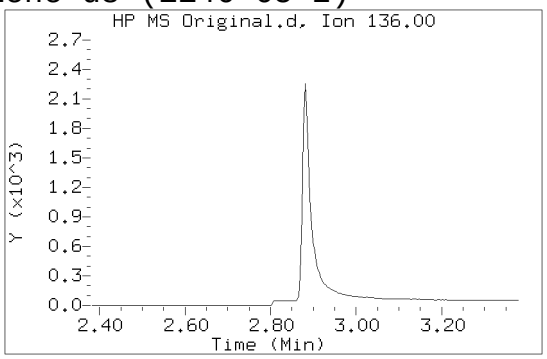


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

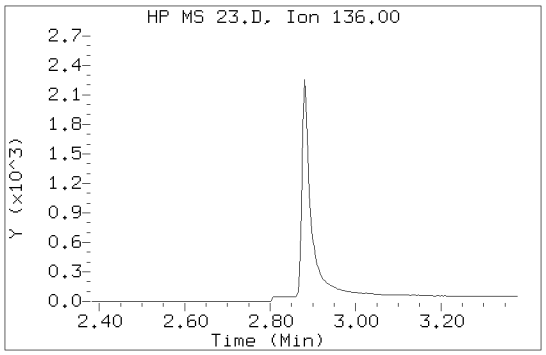
Naphthalene-d8 (1146-65-2)

Reason Code:

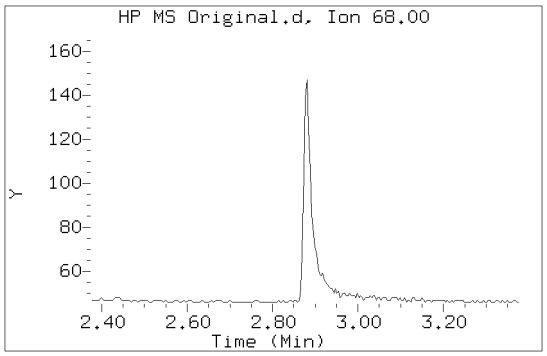
BEFORE
MASS
136
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



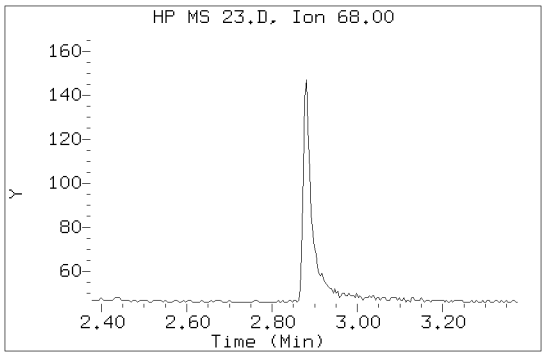
AFTER
MASS
136
AREA
6976
HEIGHT
2254
01-Jul-2024
08:34



BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



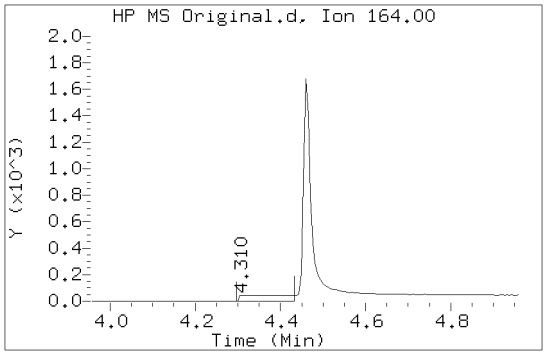
AFTER
MASS
68
AREA
0
HEIGHT
0
01-Jul-2024
08:34



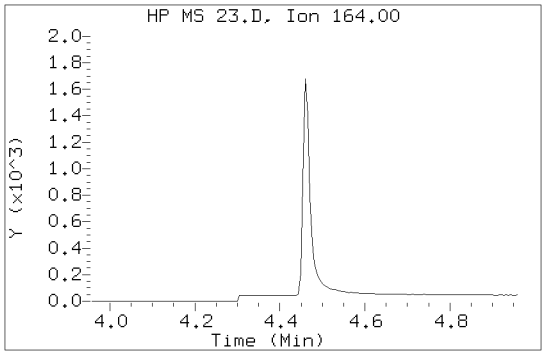
Acenaphthene-d10 (15067-26-2)

Reason Code:

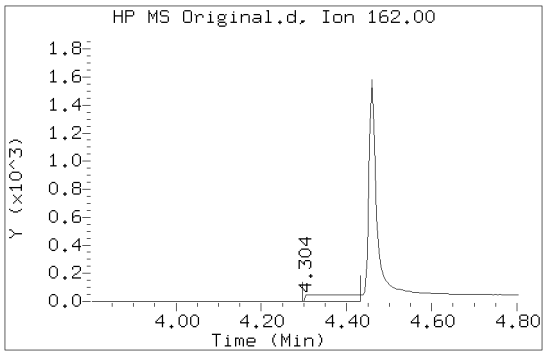
BEFORE
MASS
164
AREA
353
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server



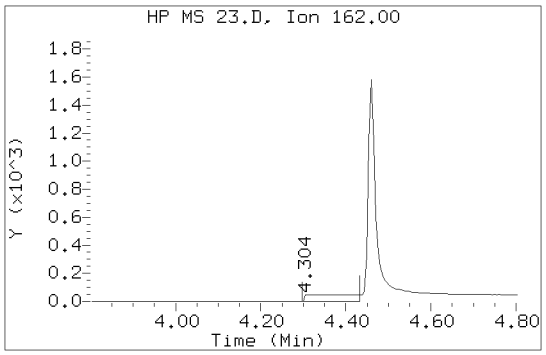
AFTER
MASS
164
AREA
2152
HEIGHT
1632
01-Jul-2024
08:34



BEFORE
MASS
162
AREA
353
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server



AFTER
MASS
162
AREA
353
HEIGHT
46
01-Jul-2024
08:34



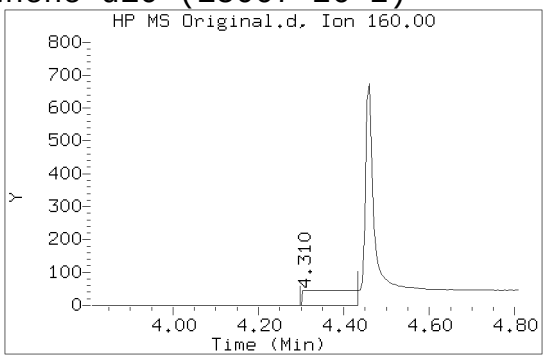
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Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Acenaphthene-d10 (15067-26-2)

Reason Code:

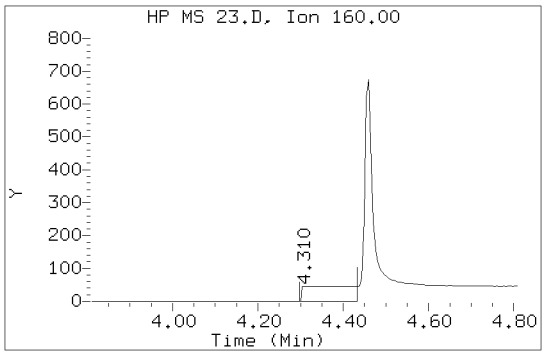
BEFORE

MASS
160
AREA
347
HEIGHT
45
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
160
AREA
347
HEIGHT
45
01-Jul-2024
08:34

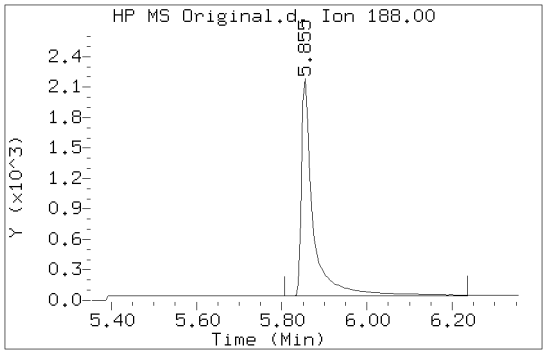


Phenanthrene-d10 (1517-22-2)

Reason Code:

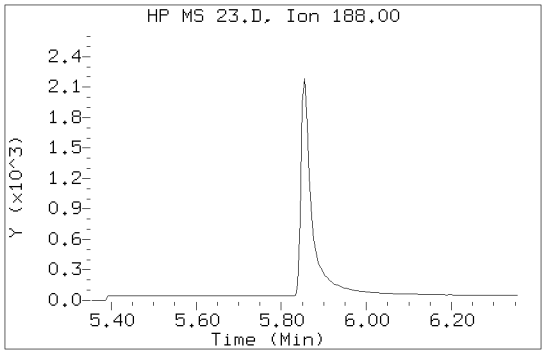
BEFORE

MASS
188
AREA
4105
HEIGHT
2138
29-Jun-2024
19:34
ALSHS
Server



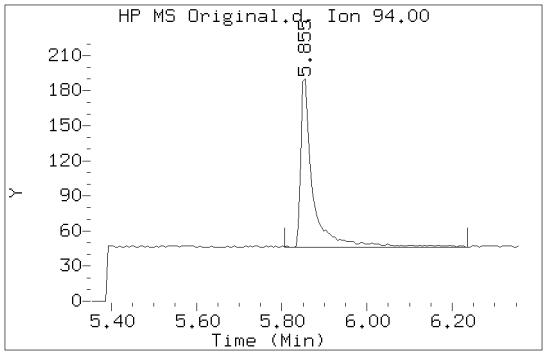
AFTER

MASS
188
AREA
6903
HEIGHT
2169
01-Jul-2024
08:34



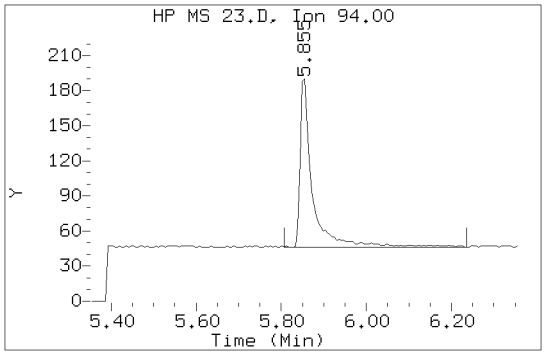
BEFORE

MASS
94
AREA
295
HEIGHT
144
29-Jun-2024
19:34
ALSHS
Server



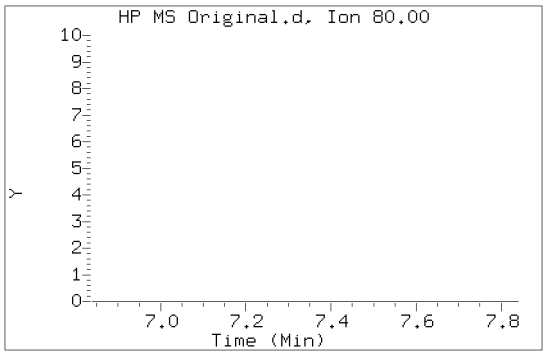
AFTER

MASS
94
AREA
295
HEIGHT
144
01-Jul-2024
08:34



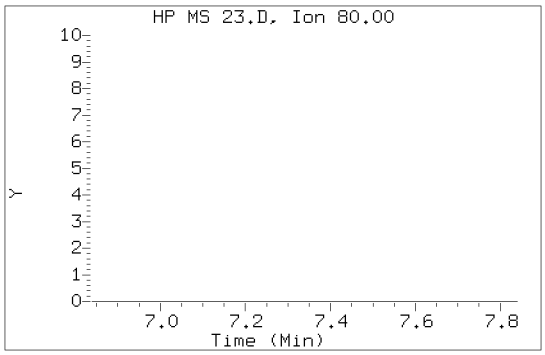
BEFORE

MASS
80
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
01-Jul-2024
08:34



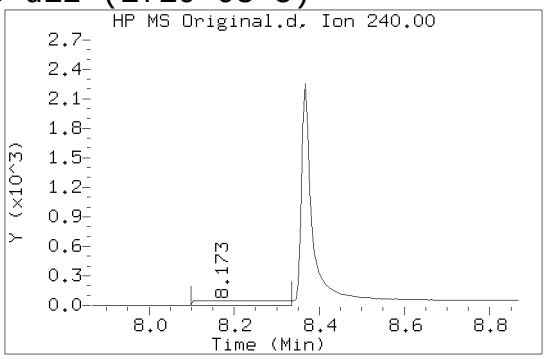
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

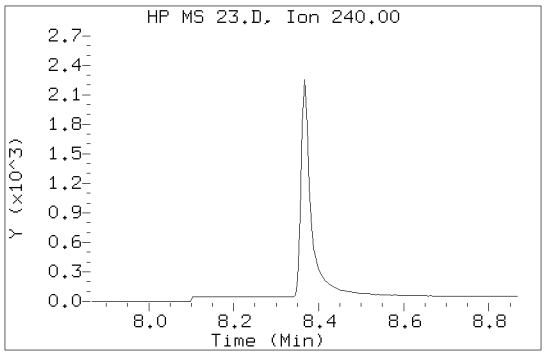
BEFORE

MASS
240
AREA
638
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server



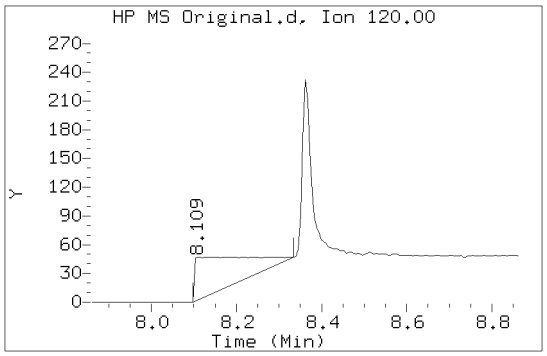
AFTER

MASS
240
AREA
6088
HEIGHT
2244
01-Jul-2024
08:34



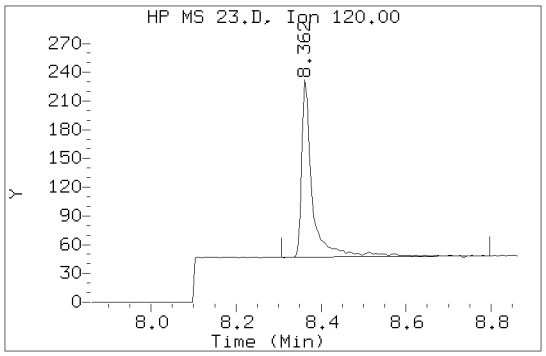
BEFORE

MASS
120
AREA
323
HEIGHT
44
29-Jun-2024
19:34
ALSHS
Server



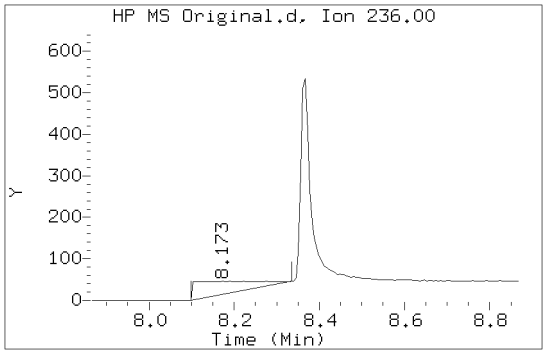
AFTER

MASS
120
AREA
325
HEIGHT
184
01-Jul-2024
08:34



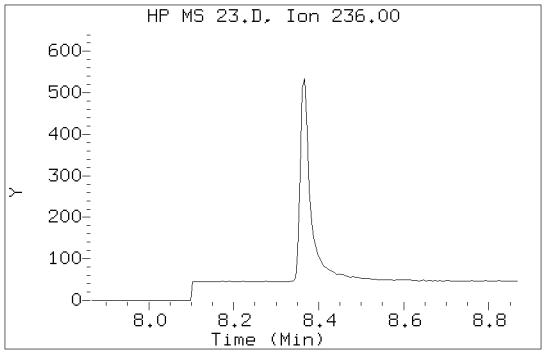
BEFORE

MASS
236
AREA
306
HEIGHT
31
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
236
AREA
894
HEIGHT
488
01-Jul-2024
08:34

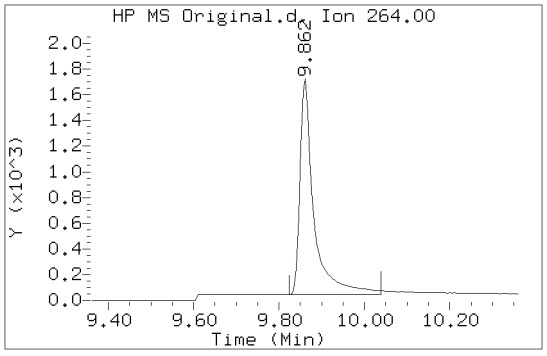


Perylene-d12 (1520-96-3)

Reason Code:

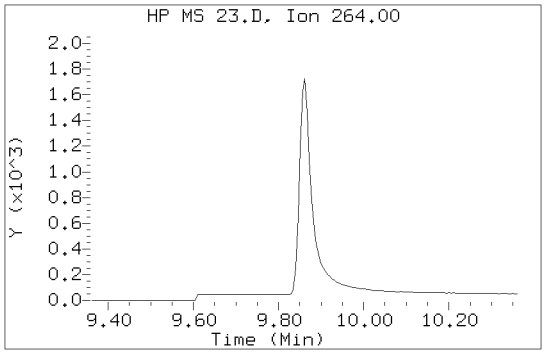
BEFORE

MASS
264
AREA
3817
HEIGHT
1679
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
264
AREA
7898
HEIGHT
1717
01-Jul-2024
08:34

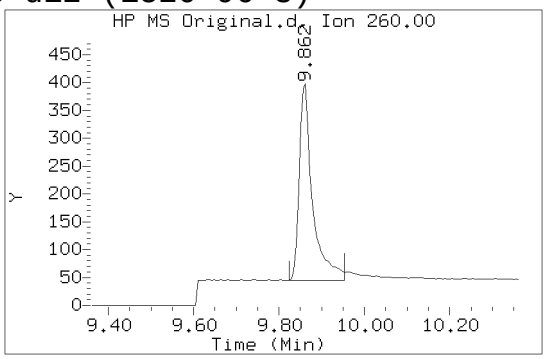


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

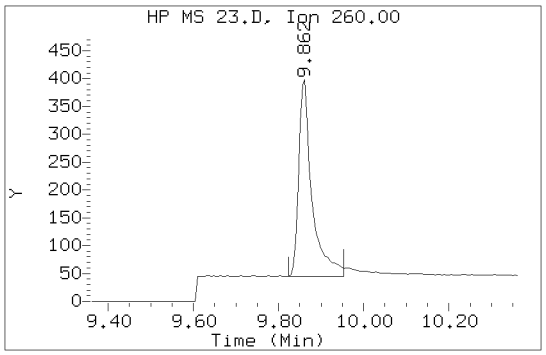
Perylene-d12 (1520-96-3)

Reason Code:

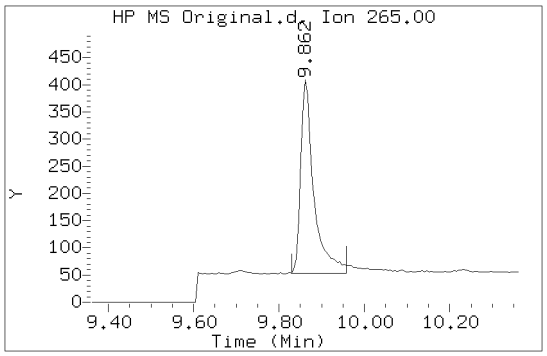
BEFORE
MASS
260
AREA
764
HEIGHT
353
29-Jun-2024
19:34
ALSHS
Server



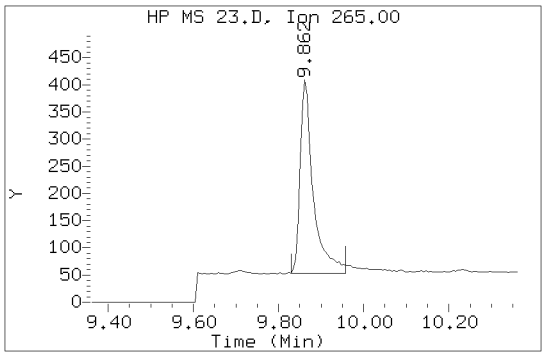
AFTER
MASS
260
AREA
764
HEIGHT
353
01-Jul-2024
08:34



BEFORE
MASS
265
AREA
769
HEIGHT
356
29-Jun-2024
19:34
ALSHS
Server



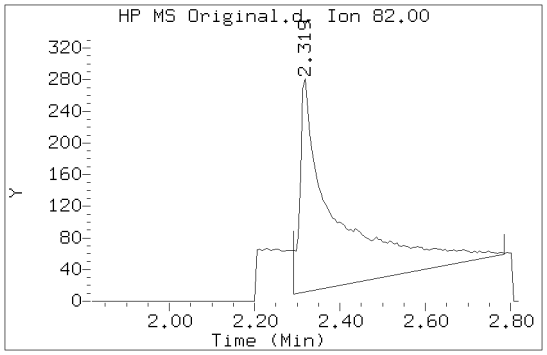
AFTER
MASS
265
AREA
769
HEIGHT
356
01-Jul-2024
08:34



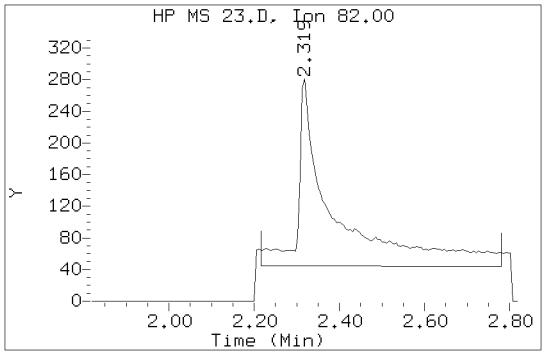
Nitrobenzene-d5 (4165-60-0)

Reason Code:

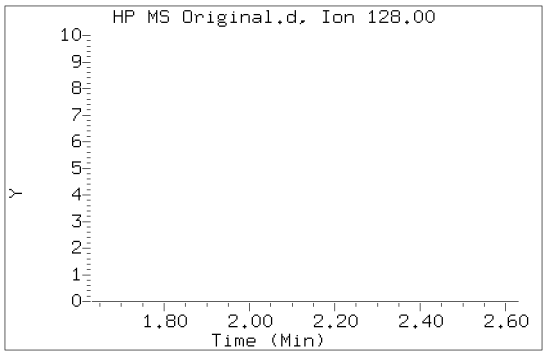
BEFORE
MASS
82
AREA
1609
HEIGHT
269
29-Jun-2024
19:34
ALSHS
Server



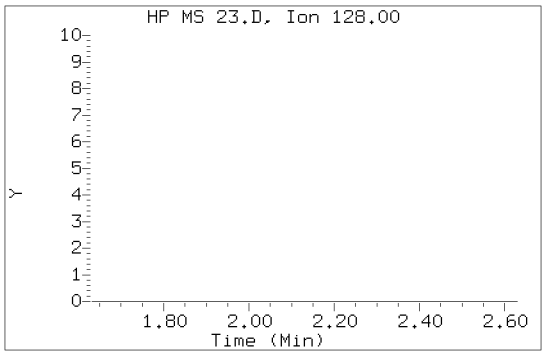
AFTER
MASS
82
AREA
1381
HEIGHT
236
01-Jul-2024
08:34



BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
08:34



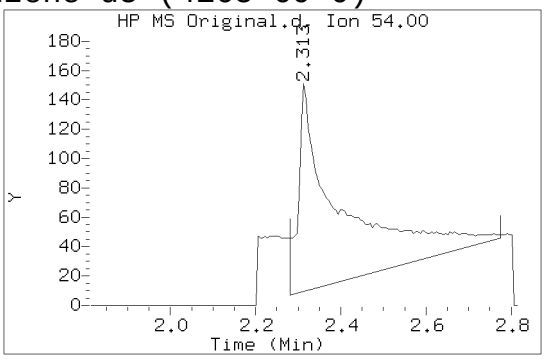
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

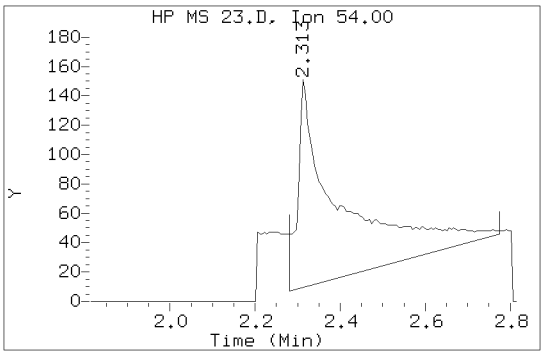
BEFORE

MASS
54
AREA
981
HEIGHT
141
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
54
AREA
981
HEIGHT
141
01-Jul-2024
08:34

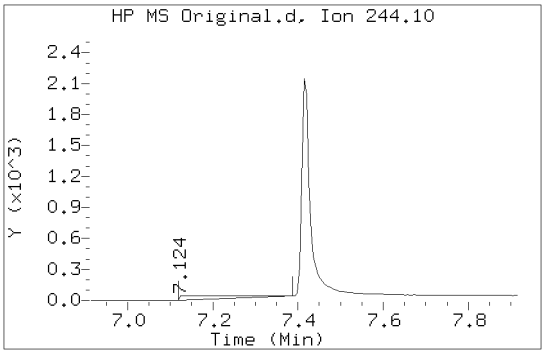


4-Terphenyl-d14 (1718-51-0)

Reason Code:

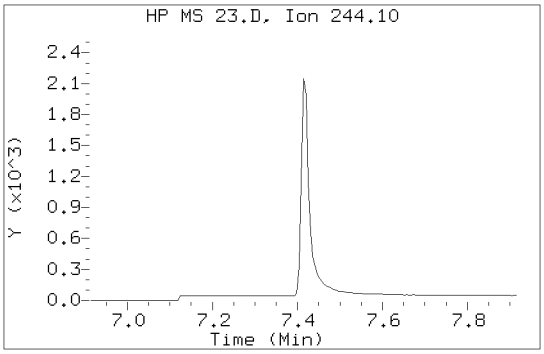
BEFORE

MASS
244.1
AREA
345
HEIGHT
44
29-Jun-2024
19:34
ALSHS
Server



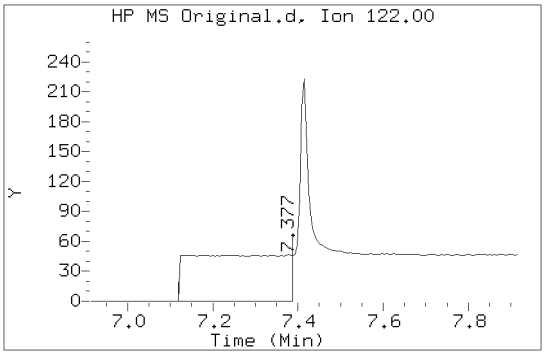
AFTER

MASS
244.1
AREA
5754
HEIGHT
2147
01-Jul-2024
08:34



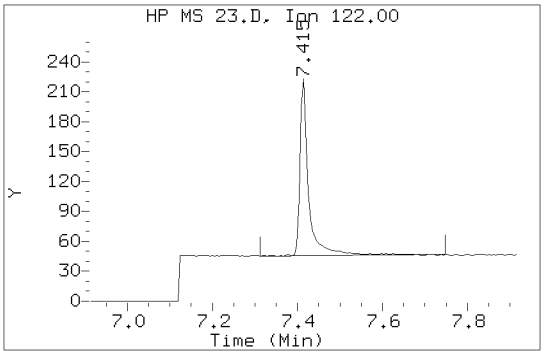
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19:34
ALSHS
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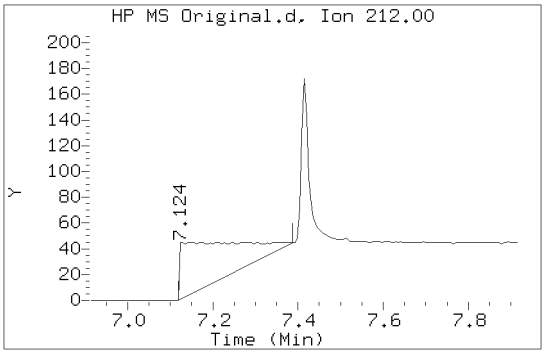
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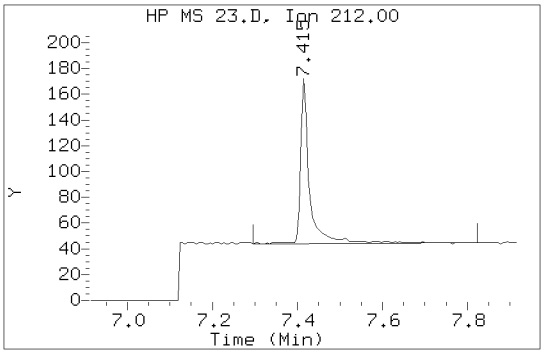
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19:34
ALSHS
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AFTER

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HEIGHT
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01-Jul-2024
08:34

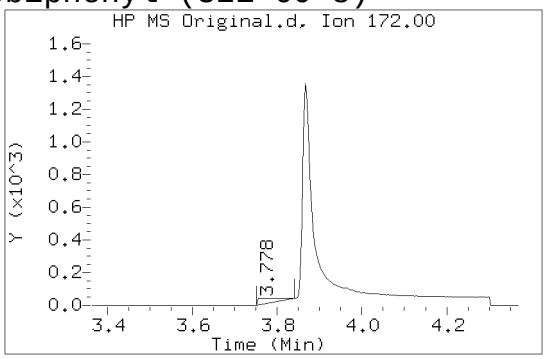


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Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

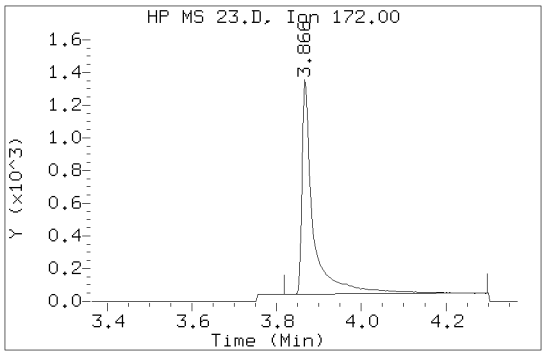
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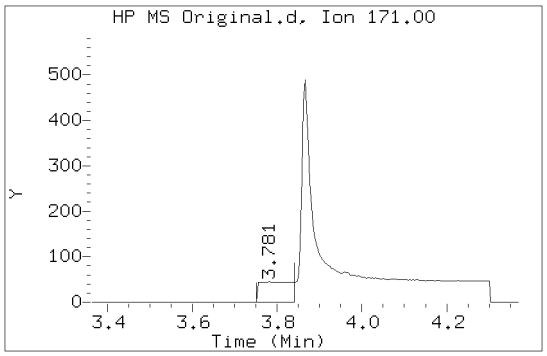
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AREA
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HEIGHT
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29-Jun-2024
19:34
ALSHS
Server



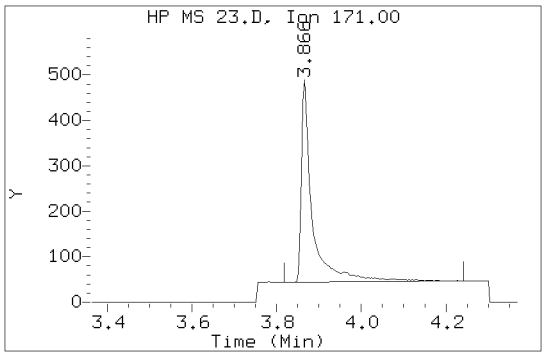
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01-Jul-2024
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BEFORE
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HEIGHT
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29-Jun-2024
19:34
ALSHS
Server



AFTER
MASS
171
AREA
791
HEIGHT
444
01-Jul-2024
08:34



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060795

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.170	5.571	-1.401	198	262912			0.00- 100.00	71.46
4.170	6.357	-2.187	51	62088			10.00- 80.00	23.62
4.170	6.357	-2.187	68	1330			0.00- 2.00	1.76
4.170	6.357	-2.187	69	75608			0.00- 0.00	28.76
4.170	6.357	-2.187	70	408			0.00- 2.00	0.54
4.170	6.357	-2.187	127	104440			10.00- 80.00	39.72
4.170	6.357	-2.187	197	996			0.00- 2.00	0.38
4.170	6.357	-2.187	199	17632			5.00- 9.00	6.71
4.170	6.357	-2.187	275	79880			10.00- 60.00	30.38
4.170	6.357	-2.187	365	10437			1.00- 100.00	3.97
4.170	6.357	-2.187	441	53968			0.01- 99.99	74.32
4.170	6.357	-2.187	442	367904			50.00- 150.00	139.93
4.170	6.357	-2.187	443	72612			15.00- 24.00	19.74

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588

93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1

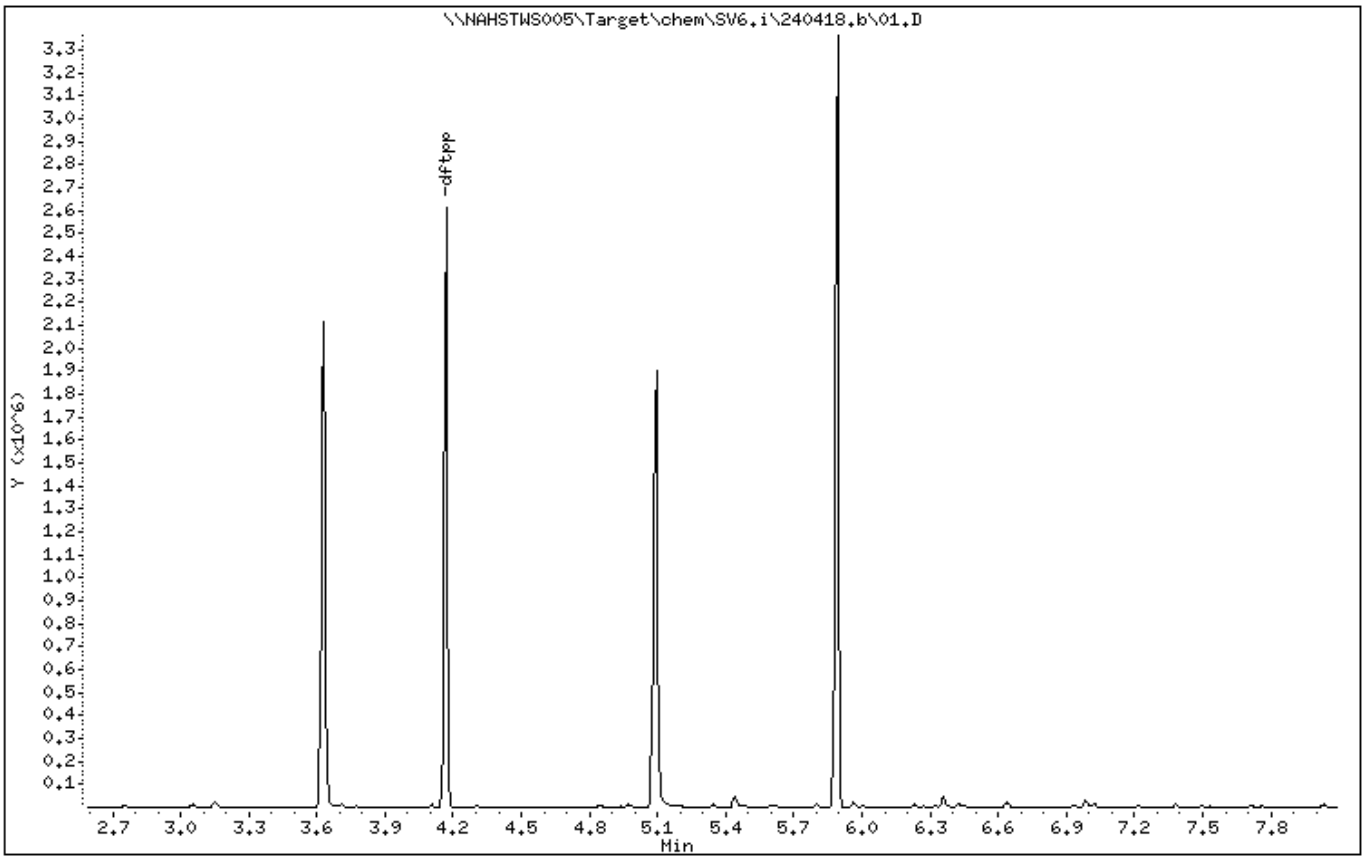
Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

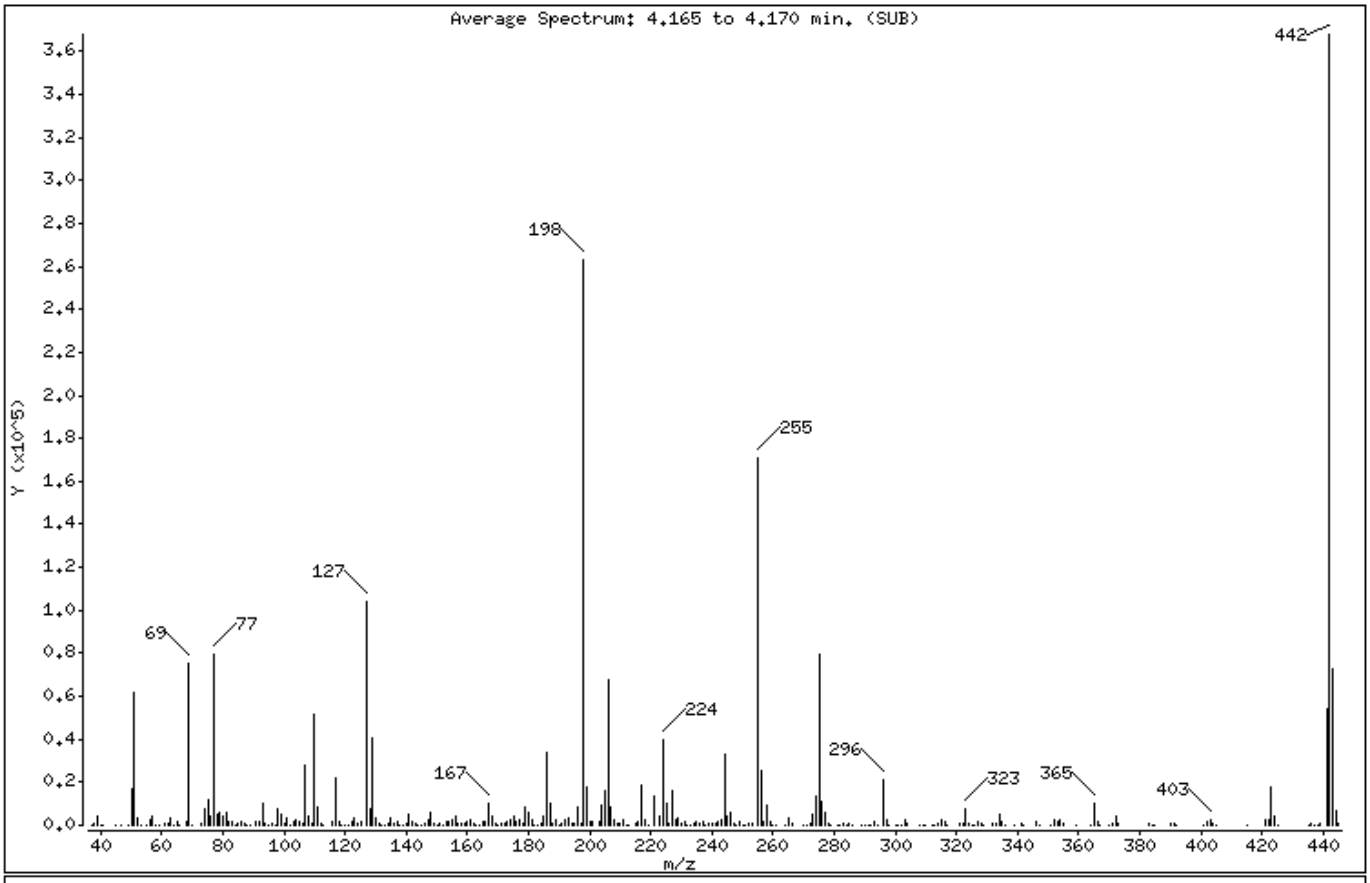
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 3

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 4

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588
93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 5

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D

Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)

Location of Maximum: 442.00

Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File : \\nahstws005\target\chem\sv6.i\240418.b\01.d
Inj Date : 18-APR-2024 10:39
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 18-APR-2024 12:24
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:24 Cal File: 03A.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3251	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	10577	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	2161	0.08000	0.06806(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6678	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	6691	0.08000	0.06554(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	13232	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	12125	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	14251	0.08000	0.05769(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	11098	0.10000	(M)
1 1,4-Dioxane	58	0.834	0.820	(0.400)	503	0.08000	0.07223(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D

Date : 18-APR-2024 12:24

Client ID: 14DX-0.08

Instrument: SV6.i

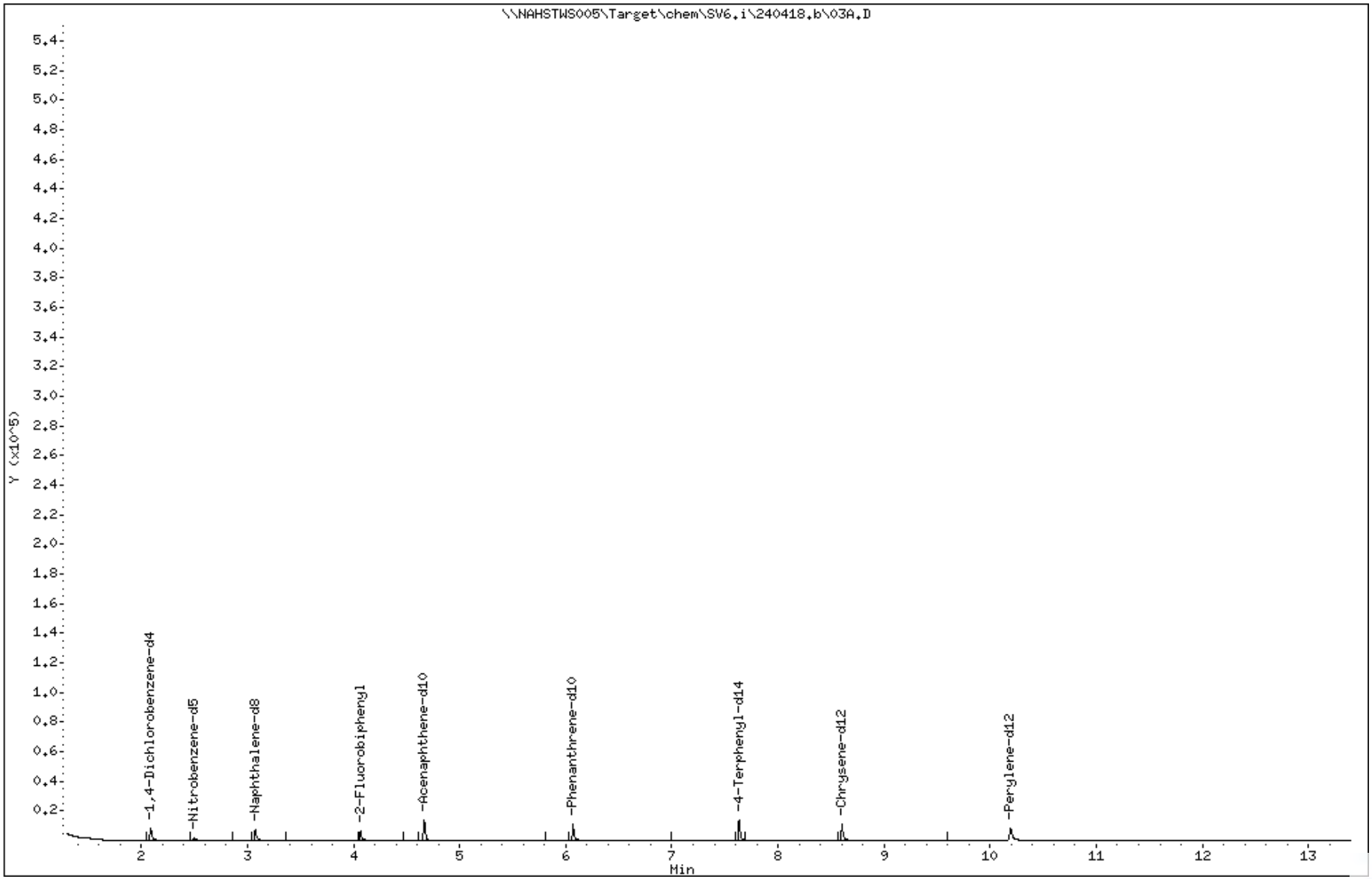
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

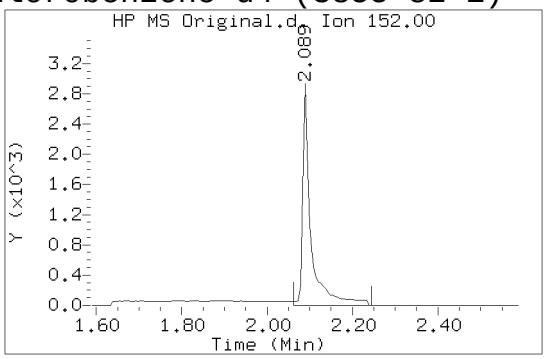


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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

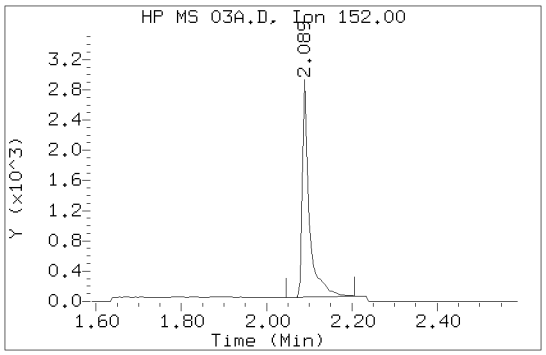
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

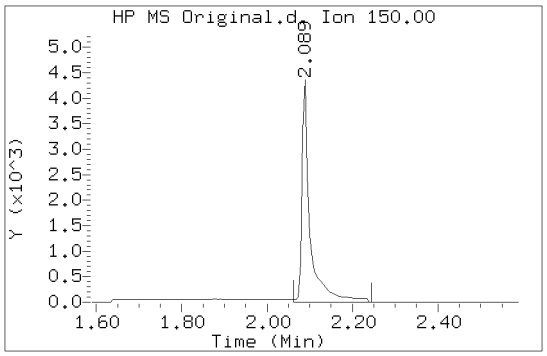
BEFORE
MASS
152
AREA
3915
HEIGHT
2934
18-Apr-2024
12:42
ALSHS
Server



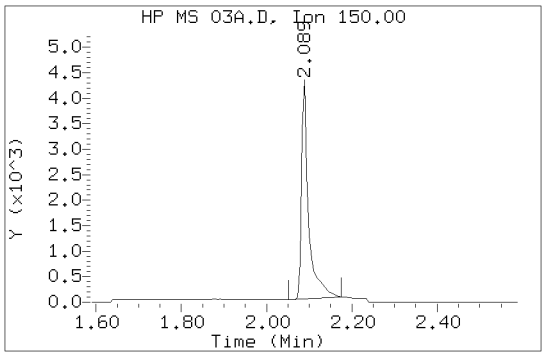
AFTER
MASS
152
AREA
3251
HEIGHT
2876
28-May-2024
13:05



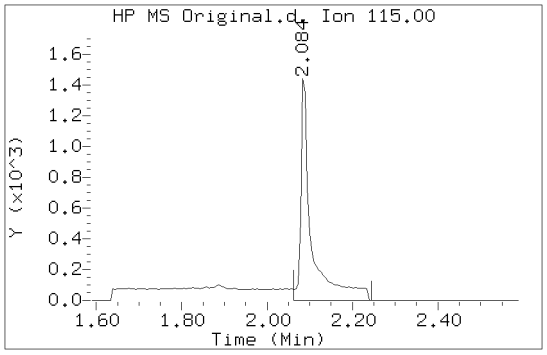
BEFORE
MASS
150
AREA
5788
HEIGHT
4359
18-Apr-2024
12:42
ALSHS
Server



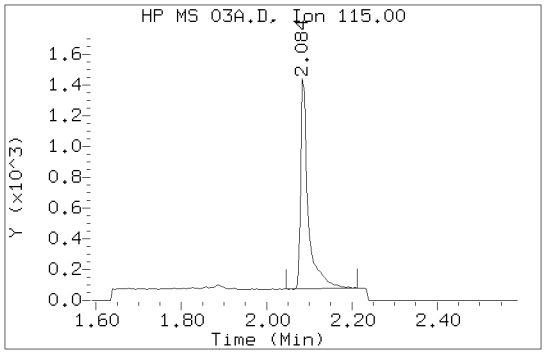
AFTER
MASS
150
AREA
4924
HEIGHT
4290
28-May-2024
13:05



BEFORE
MASS
115
AREA
2519
HEIGHT
1442
18-Apr-2024
12:42
ALSHS
Server



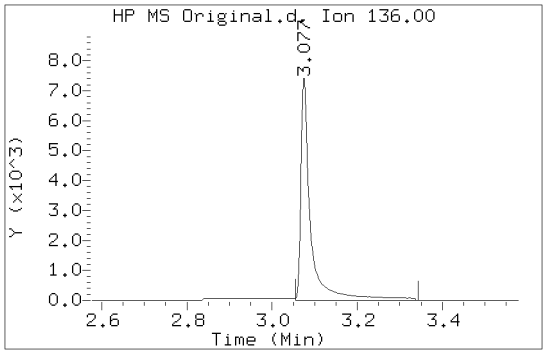
AFTER
MASS
115
AREA
1685
HEIGHT
1365
28-May-2024
13:05



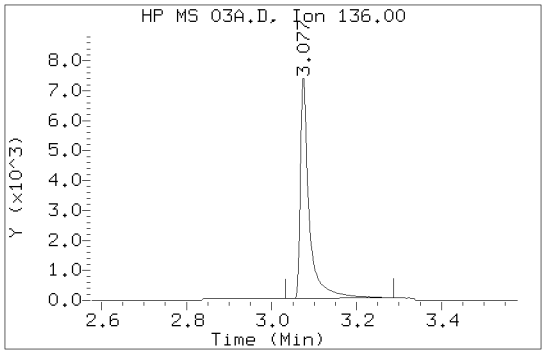
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11842
HEIGHT
7402
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
136
AREA
10577
HEIGHT
7340
28-May-2024
13:05

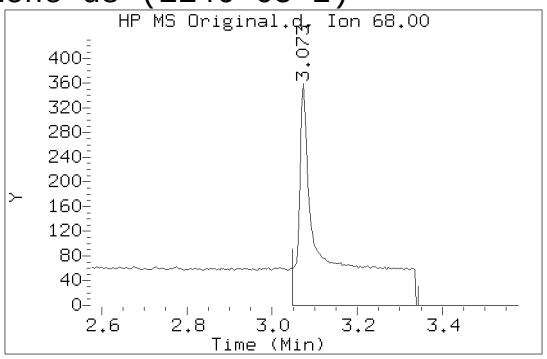


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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

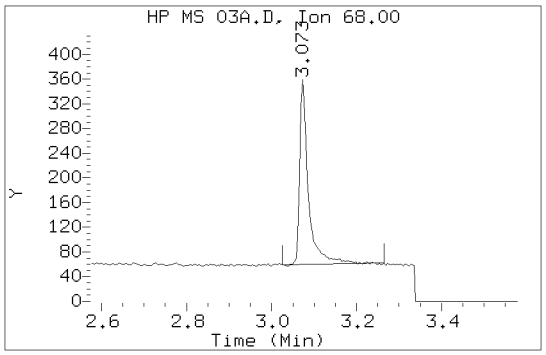
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1473
HEIGHT
359
18-Apr-2024
12:42
ALSHS
Server



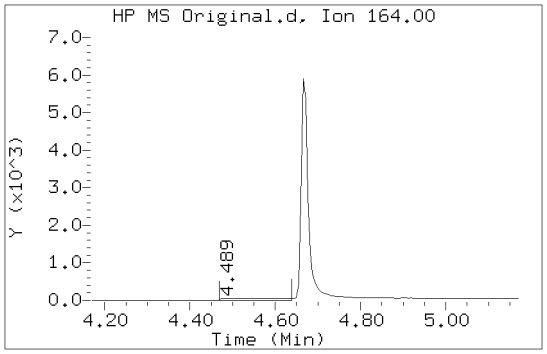
AFTER
MASS
68
AREA
417
HEIGHT
299
28-May-2024
13:05



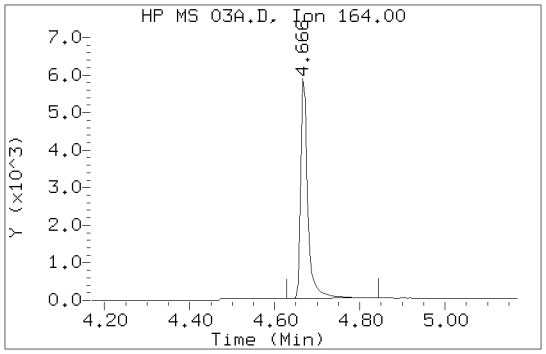
Acenaphthene-d10 (15067-26-2)

Reason Code:

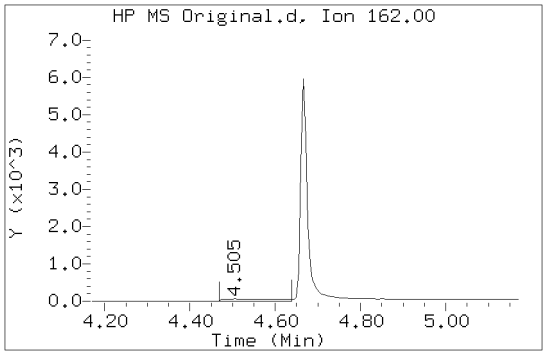
BEFORE
MASS
164
AREA
527
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



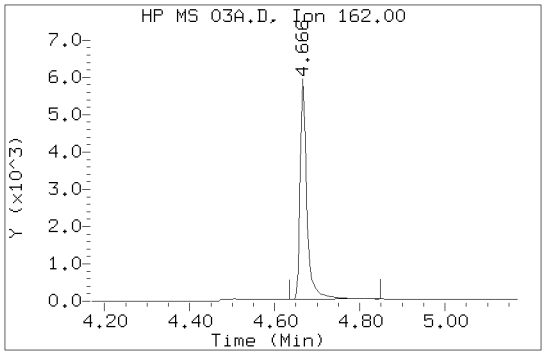
AFTER
MASS
164
AREA
6678
HEIGHT
5851
28-May-2024
13:05



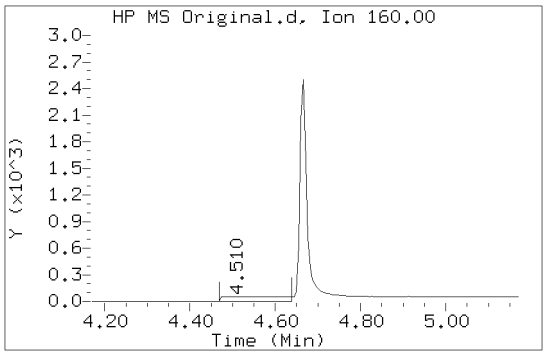
BEFORE
MASS
162
AREA
540
HEIGHT
61
18-Apr-2024
12:42
ALSHS
Server



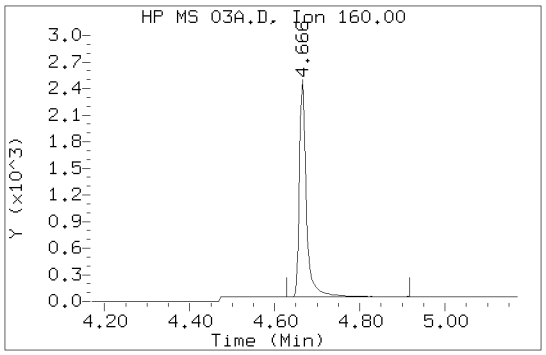
AFTER
MASS
162
AREA
6371
HEIGHT
5906
28-May-2024
13:05



BEFORE
MASS
160
AREA
507
HEIGHT
51
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
160
AREA
2763
HEIGHT
2449
28-May-2024
13:05

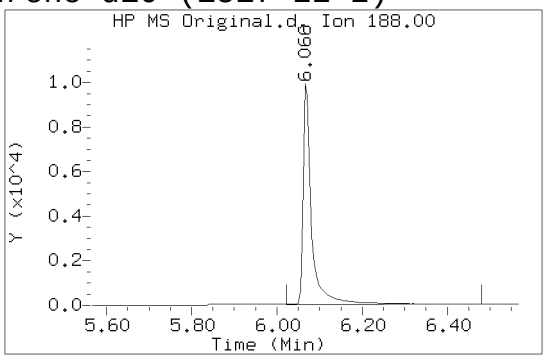


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

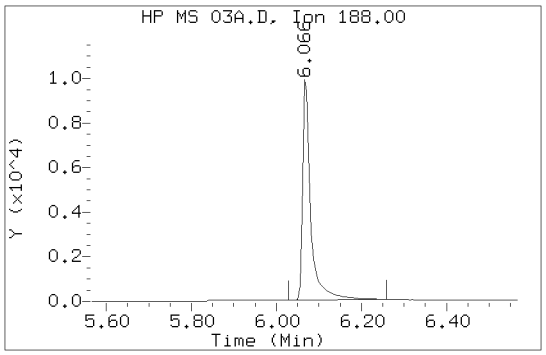
Phenanthrene-d10 (1517-22-2)

Reason Code:

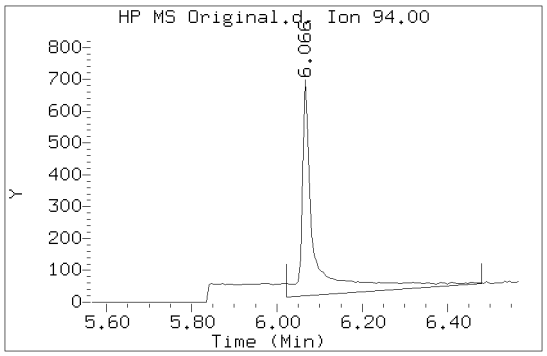
BEFORE
MASS
188
AREA
14212
HEIGHT
9923
18-Apr-2024
12:42
ALSHS
Server



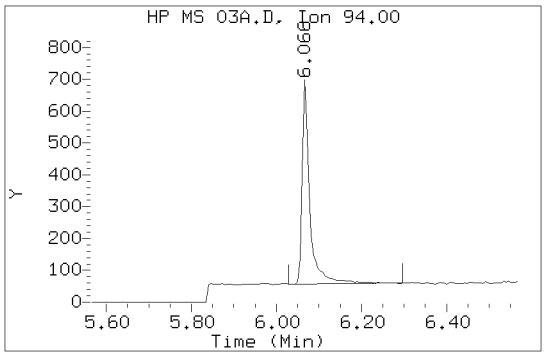
AFTER
MASS
188
AREA
13232
HEIGHT
9886
28-May-2024
13:05



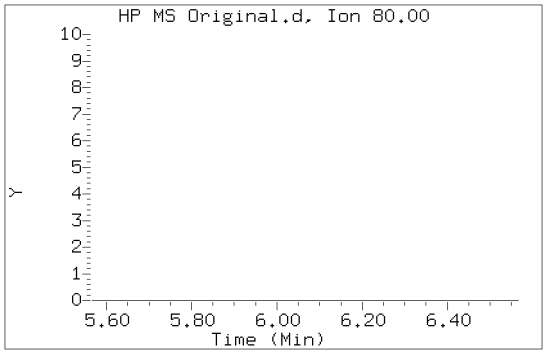
BEFORE
MASS
94
AREA
1408
HEIGHT
677
18-Apr-2024
12:42
ALSHS
Server



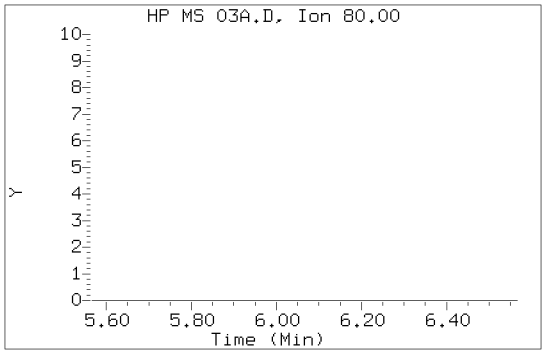
AFTER
MASS
94
AREA
802
HEIGHT
640
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



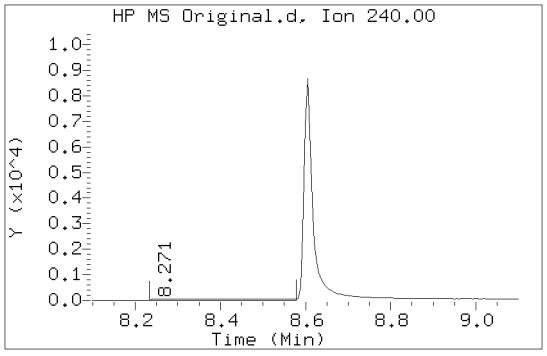
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



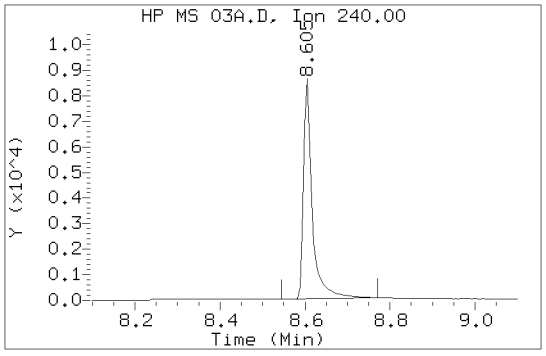
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
1046
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
240
AREA
12125
HEIGHT
8606
28-May-2024
13:05

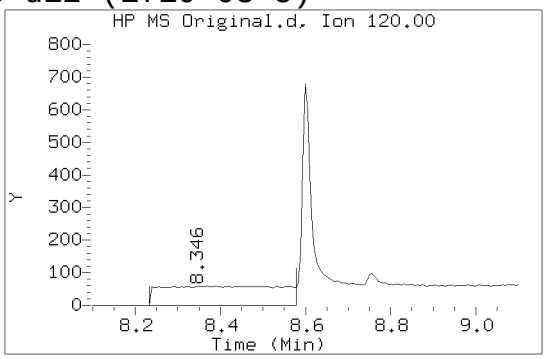


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

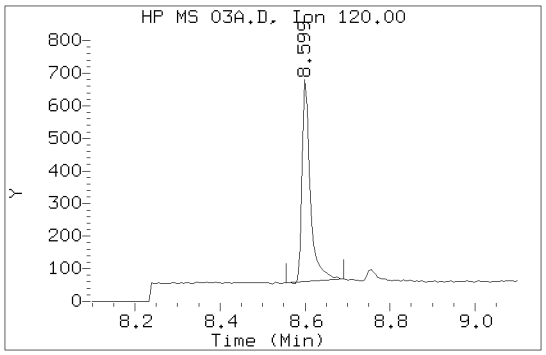
Chrysene-d12 (1719-03-5)

Reason Code:

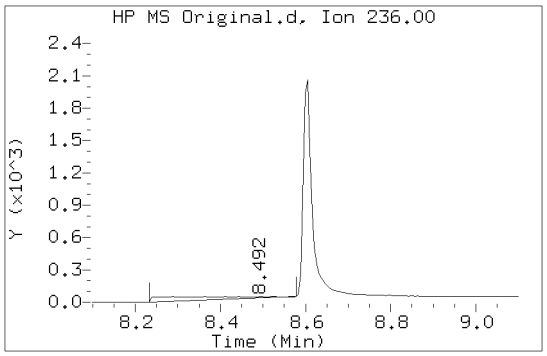
BEFORE
MASS
120
AREA
1175
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



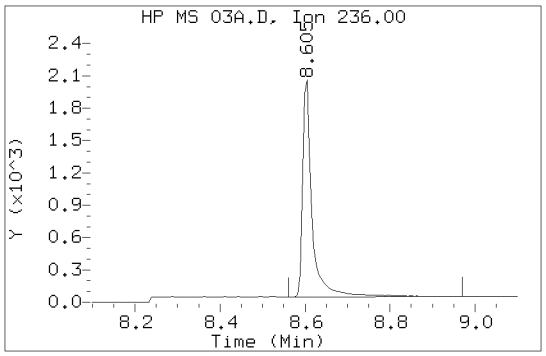
AFTER
MASS
120
AREA
821
HEIGHT
619
28-May-2024
13:05



BEFORE
MASS
236
AREA
485
HEIGHT
13
18-Apr-2024
12:42
ALSHS
Server



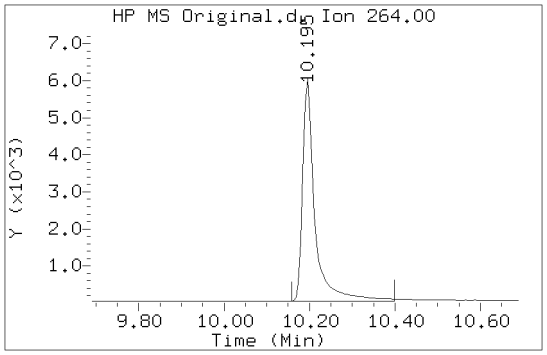
AFTER
MASS
236
AREA
3066
HEIGHT
2012
28-May-2024
13:05



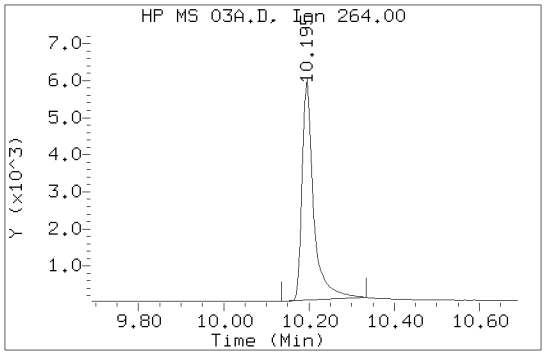
Perylene-d12 (1520-96-3)

Reason Code:

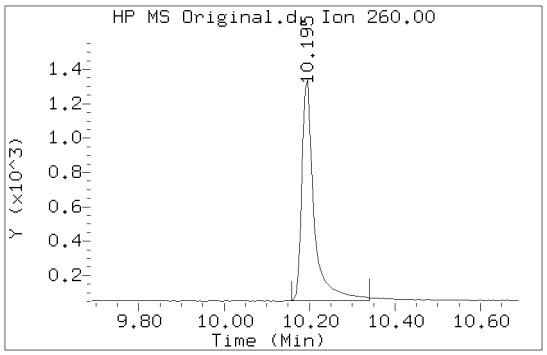
BEFORE
MASS
264
AREA
11914
HEIGHT
5992
18-Apr-2024
12:42
ALSHS
Server



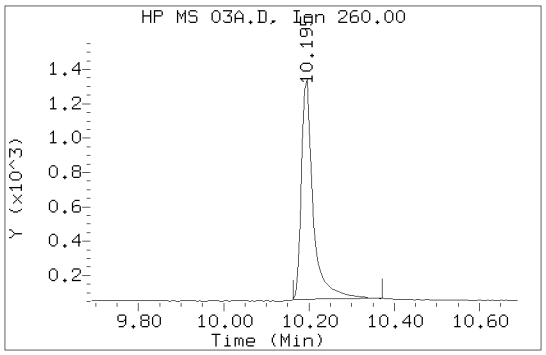
AFTER
MASS
264
AREA
11098
HEIGHT
5966
28-May-2024
13:05



BEFORE
MASS
260
AREA
2543
HEIGHT
1286
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
260
AREA
2442
HEIGHT
1278
28-May-2024
13:05



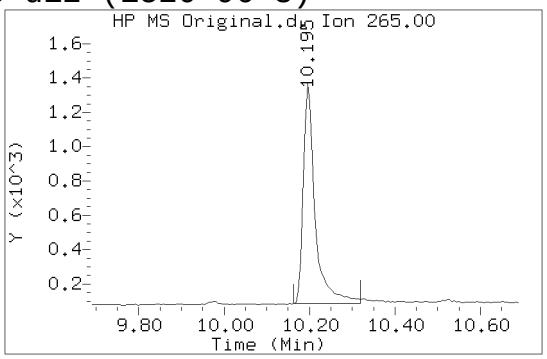
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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

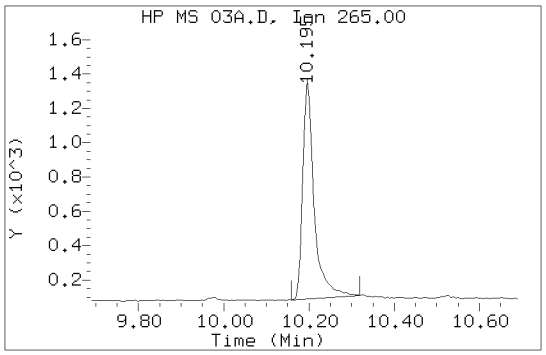
BEFORE

MASS
265
AREA
2459
HEIGHT
1281
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
265
AREA
2359
HEIGHT
1277
28-May-2024
13:05

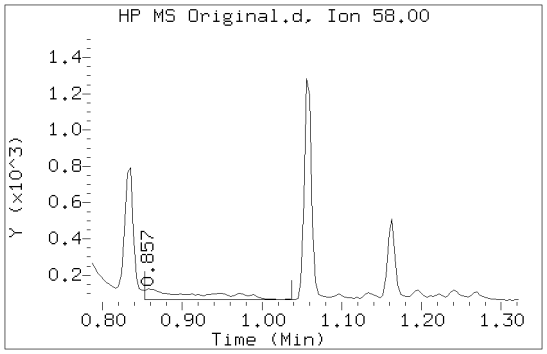


1,4-Dioxane ()

Reason Code:

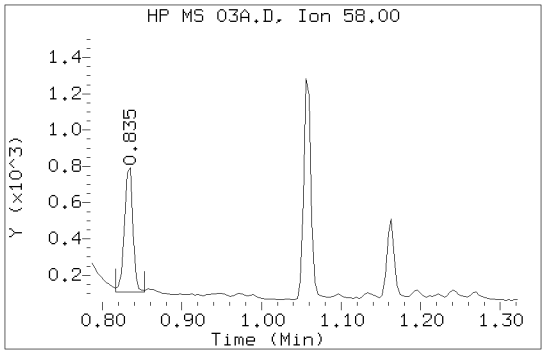
BEFORE

MASS
58
AREA
288
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



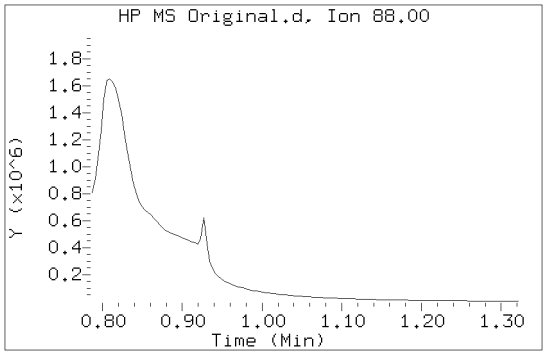
AFTER

MASS
58
AREA
503
HEIGHT
686
28-May-2024
13:05



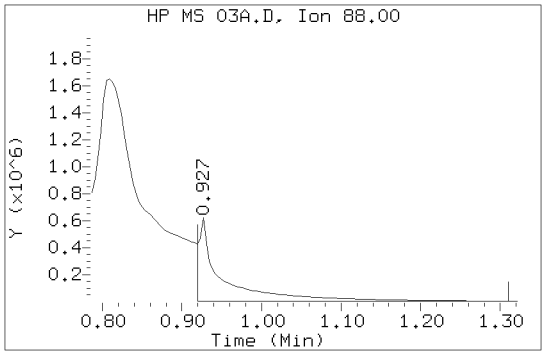
BEFORE

MASS
88
AREA
1284716
HEIGHT
617517
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
88
AREA
1274387
HEIGHT
617087
28-May-2024
13:05

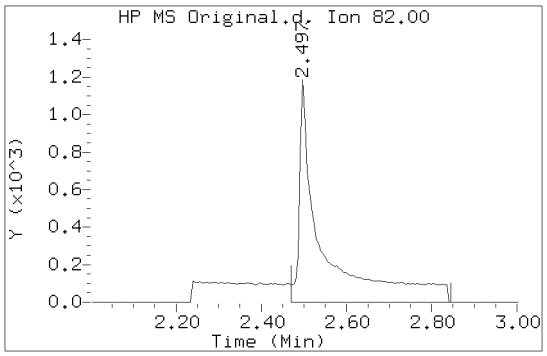


Nitrobenzene-d5 (4165-60-0)

Reason Code:

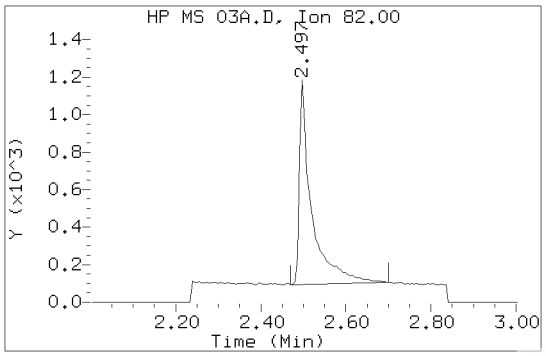
BEFORE

MASS
82
AREA
4330
HEIGHT
1185
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
82
AREA
2161
HEIGHT
1090
28-May-2024
13:05

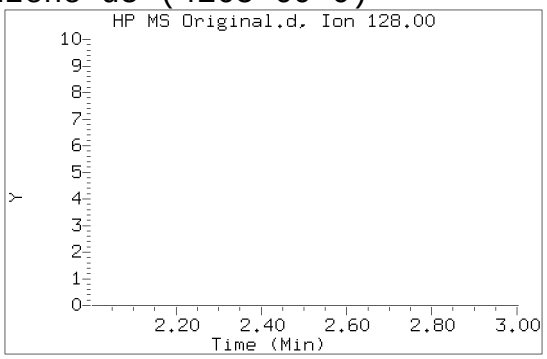


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

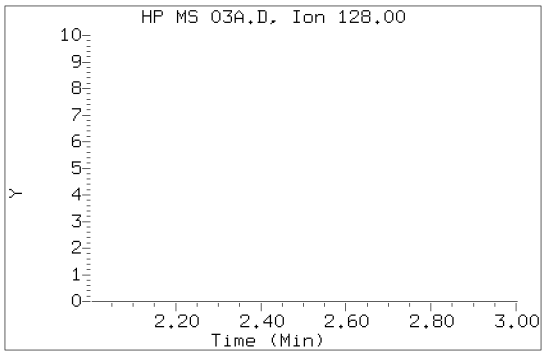
Nitrobenzene-d5 (4165-60-0)

Reason Code:

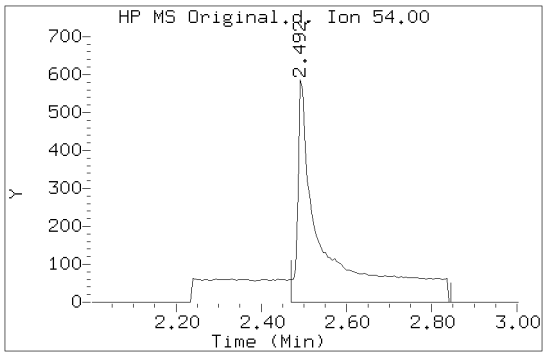
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



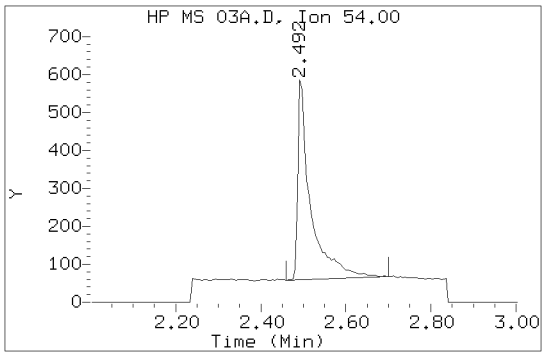
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
2489
HEIGHT
586
18-Apr-2024
12:42
ALSHS
Server



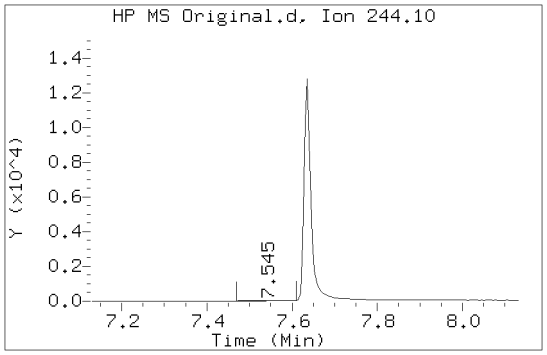
AFTER
MASS
54
AREA
1100
HEIGHT
526
28-May-2024
13:05



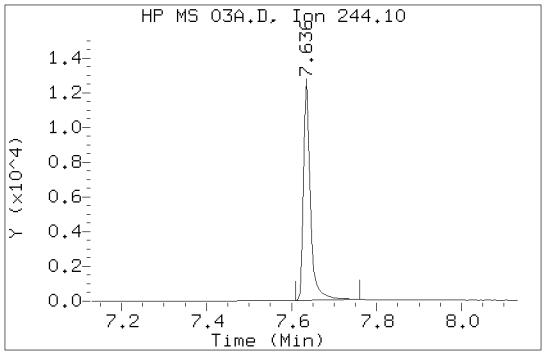
4-Terphenyl-d14 (1718-51-0)

Reason Code:

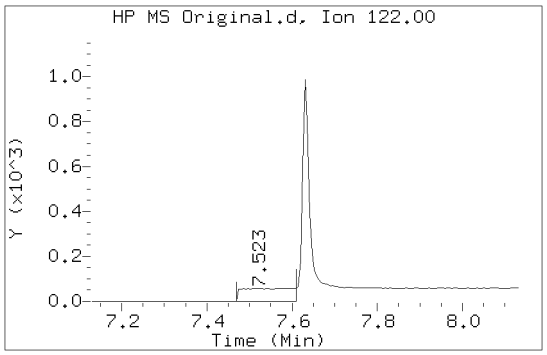
BEFORE
MASS
244.1
AREA
193
HEIGHT
23
18-Apr-2024
12:42
ALSHS
Server



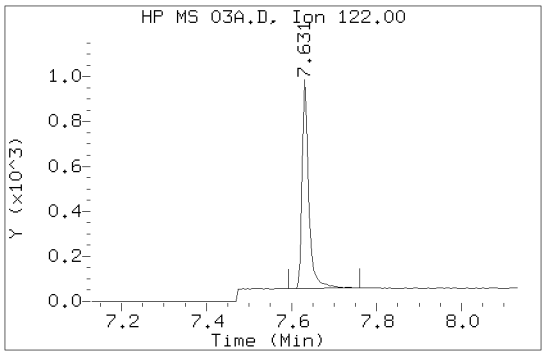
AFTER
MASS
244.1
AREA
14251
HEIGHT
12746
28-May-2024
13:05



BEFORE
MASS
122
AREA
473
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
122
AREA
1008
HEIGHT
928
28-May-2024
13:05



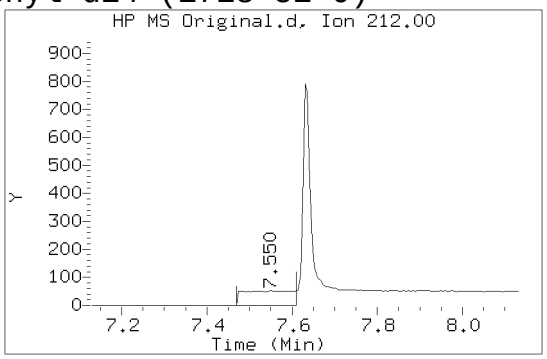
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

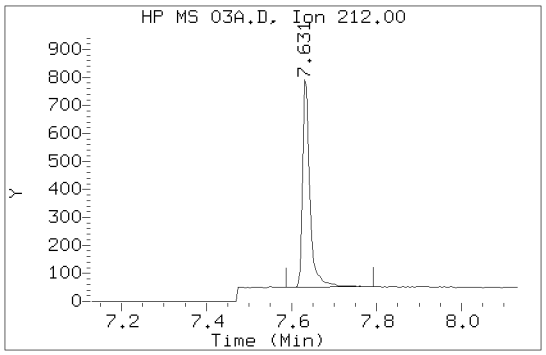
BEFORE

MASS
212
AREA
422
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
212
AREA
890
HEIGHT
741
28-May-2024
13:05

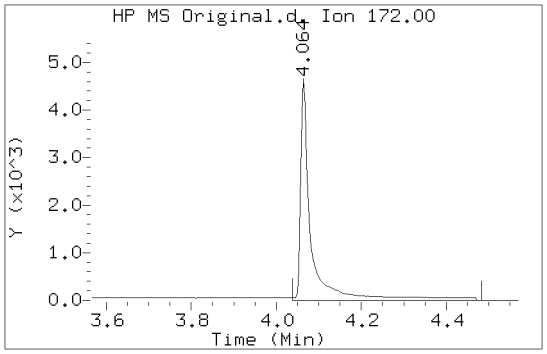


2-Fluorobiphenyl (321-60-8)

Reason Code:

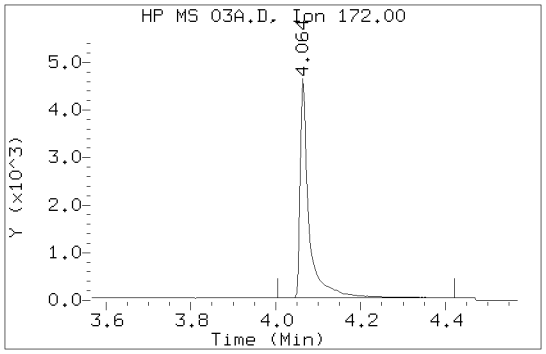
BEFORE

MASS
172
AREA
8151
HEIGHT
4659
18-Apr-2024
12:42
ALSHS
Server



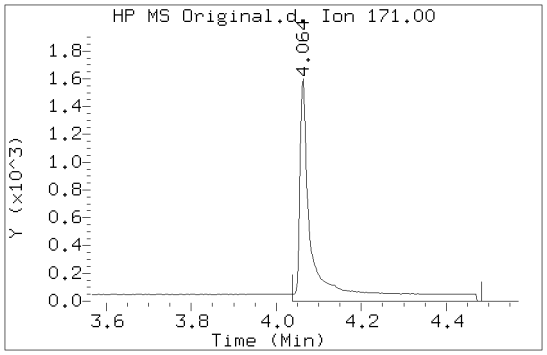
AFTER

MASS
172
AREA
6691
HEIGHT
4608
28-May-2024
13:05



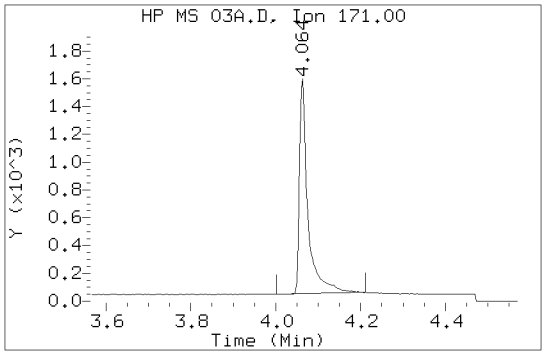
BEFORE

MASS
171
AREA
3618
HEIGHT
1599
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
171
AREA
2124
HEIGHT
1543
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Lab Smp Id: 14DX-0.01
Inj Date : 18-APR-2024 12:49
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:49 Cal File: 04.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3248	0.10000	(aM)
* 45 Naphthalene-d8	136	3.073	3.076	(1.000)	10308	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.813)	262	0.01000	0.008466(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6420	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	1018	0.01000	0.01037(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	12867	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	11333	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	2521	0.01000	0.01092(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	12071	0.10000	(M)
1 1,4-Dioxane	58	0.838	0.820	(0.401)	87	0.01000	0.01250(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D

Date : 18-APR-2024 12:49

Client ID:

Instrument: SV6.i

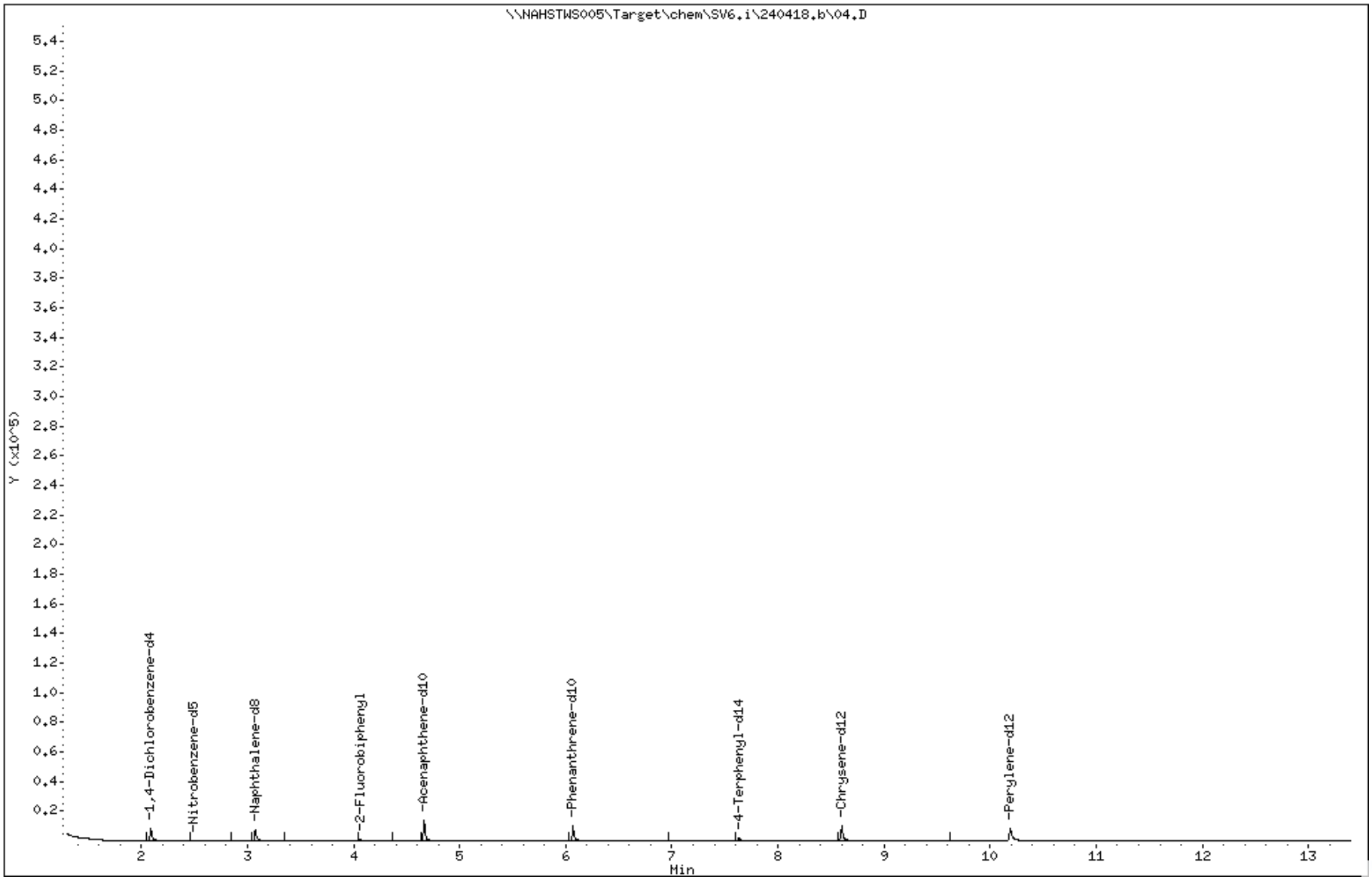
Sample Info: 14DX-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



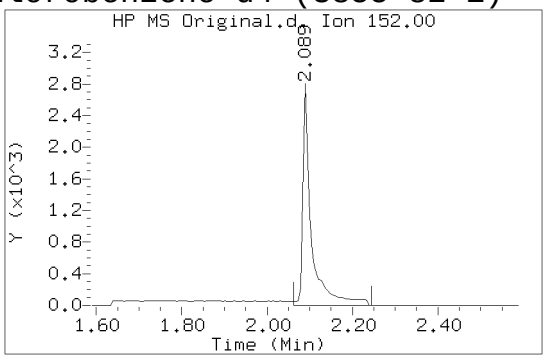
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

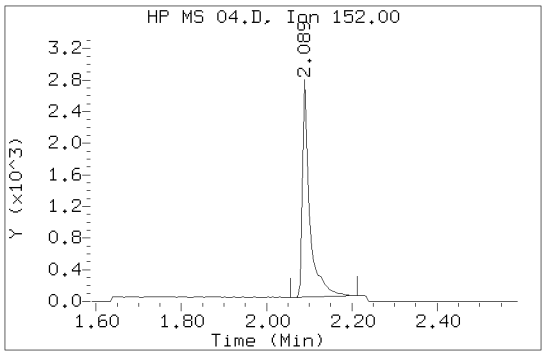
BEFORE

MASS
152
AREA
3912
HEIGHT
2804
18-Apr-2024
13:10
ALSHS
Server



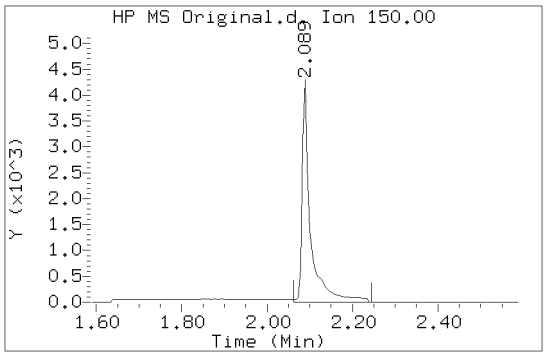
AFTER

MASS
152
AREA
3248
HEIGHT
2748
28-May-2024
13:05



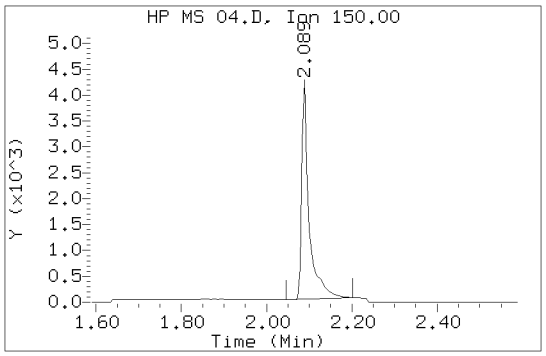
BEFORE

MASS
150
AREA
5830
HEIGHT
4294
18-Apr-2024
13:10
ALSHS
Server



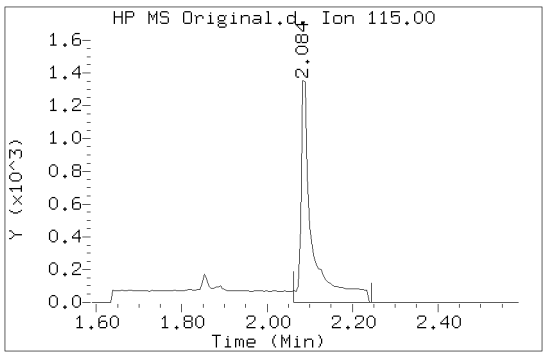
AFTER

MASS
150
AREA
5043
HEIGHT
4231
28-May-2024
13:05



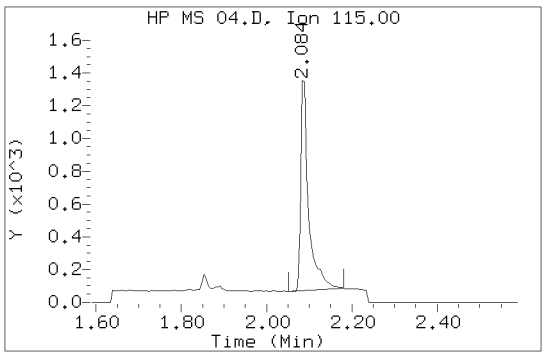
BEFORE

MASS
115
AREA
2502
HEIGHT
1353
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
115
AREA
1663
HEIGHT
1280
28-May-2024
13:05

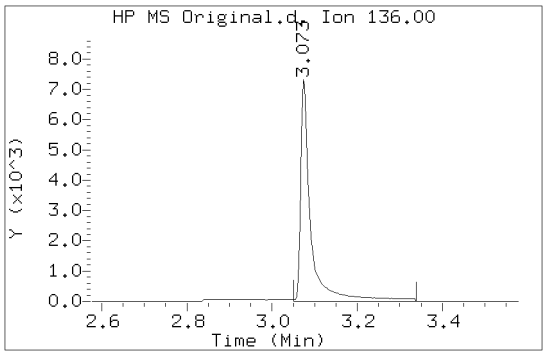


Naphthalene-d8 (1146-65-2)

Reason Code:

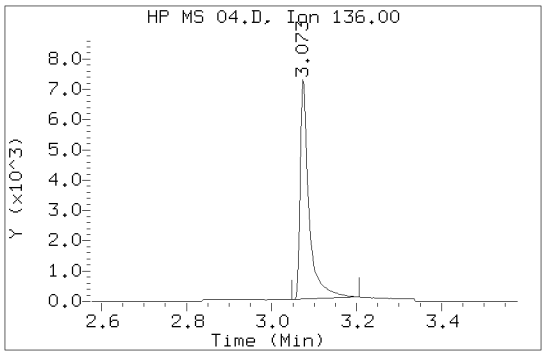
BEFORE

MASS
136
AREA
12033
HEIGHT
7318
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
136
AREA
10308
HEIGHT
7248
28-May-2024
13:05



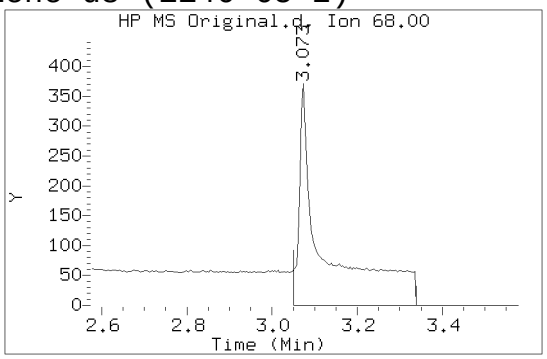
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Naphthalene-d8 (1146-65-2)

Reason Code:

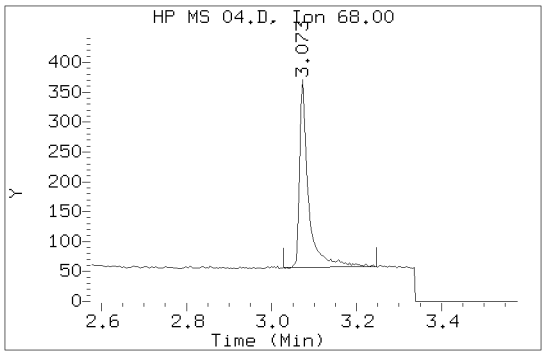
BEFORE

MASS
68
AREA
1444
HEIGHT
371
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
68
AREA
448
HEIGHT
313
28-May-2024
13:05

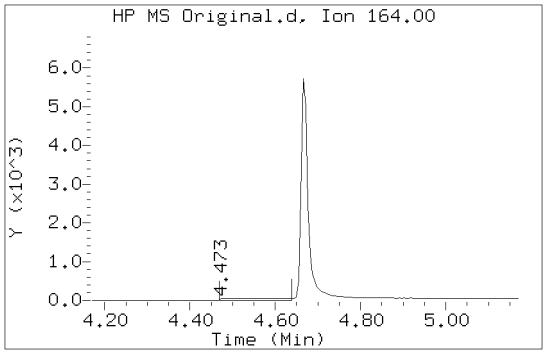


Acenaphthene-d10 (15067-26-2)

Reason Code:

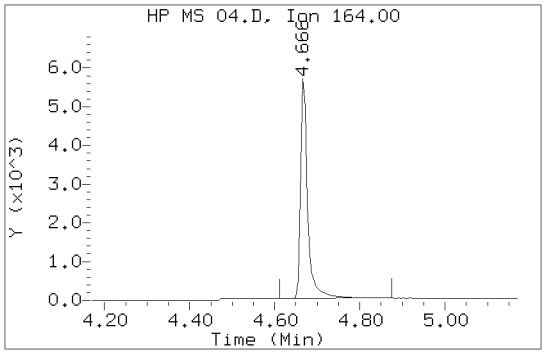
BEFORE

MASS
164
AREA
515
HEIGHT
52
18-Apr-2024
13:10
ALSHS
Server



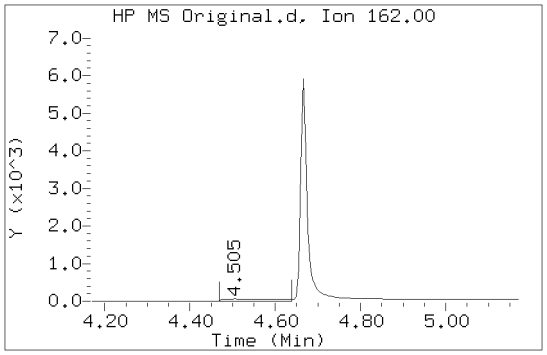
AFTER

MASS
164
AREA
6420
HEIGHT
5670
28-May-2024
13:05



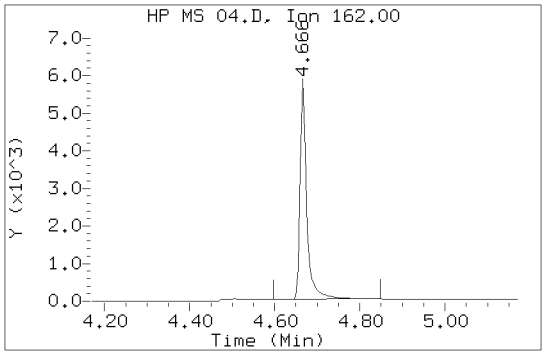
BEFORE

MASS
162
AREA
528
HEIGHT
60
18-Apr-2024
13:10
ALSHS
Server



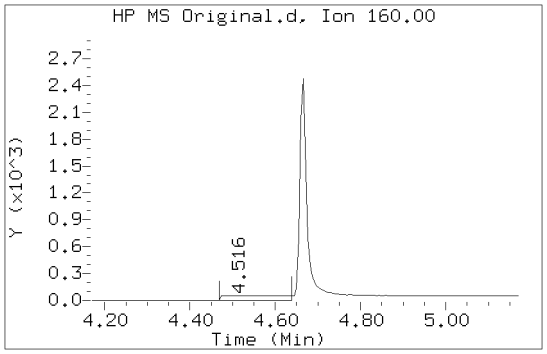
AFTER

MASS
162
AREA
6187
HEIGHT
5861
28-May-2024
13:05



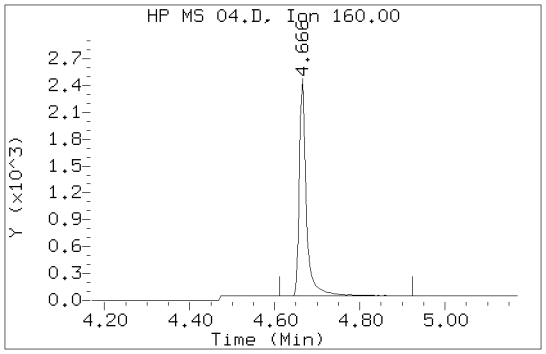
BEFORE

MASS
160
AREA
499
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
160
AREA
2756
HEIGHT
2428
28-May-2024
13:05



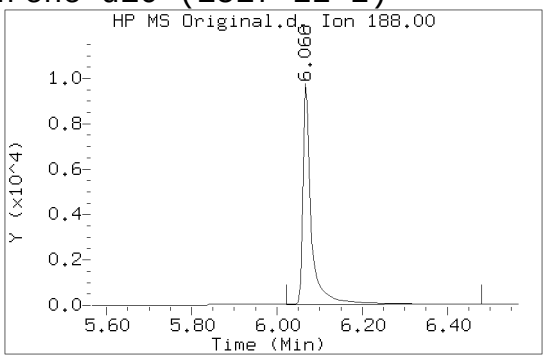
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Phenanthrene-d10 (1517-22-2)

Reason Code:

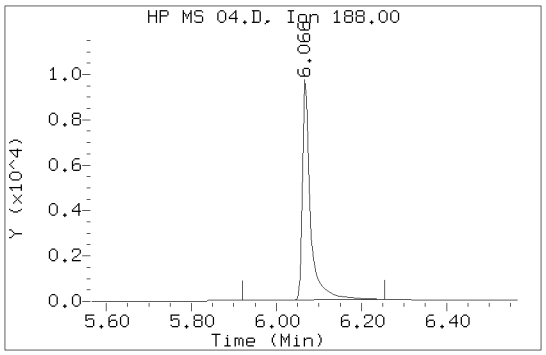
BEFORE

MASS
188
AREA
13965
HEIGHT
9748
18-Apr-2024
13:10
ALSHS
Server



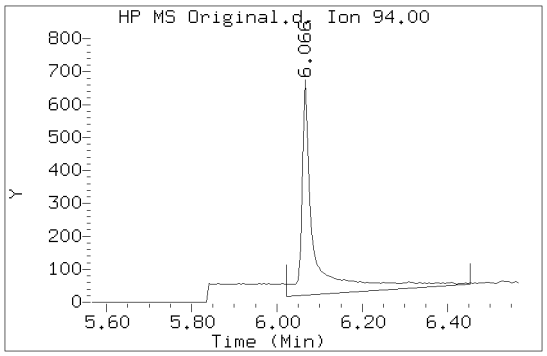
AFTER

MASS
188
AREA
12867
HEIGHT
9702
28-May-2024
13:05



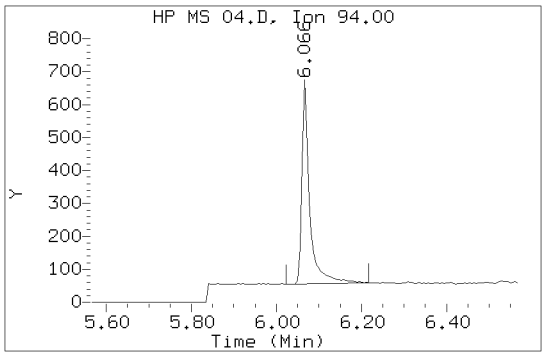
BEFORE

MASS
94
AREA
1364
HEIGHT
654
18-Apr-2024
13:10
ALSHS
Server



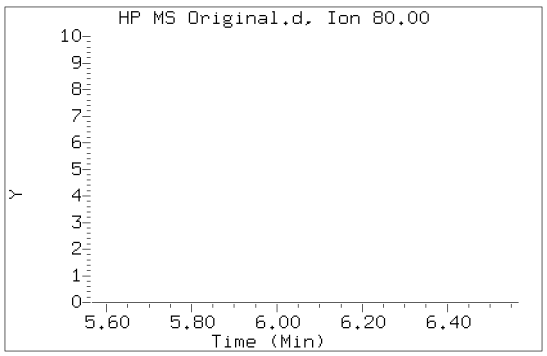
AFTER

MASS
94
AREA
793
HEIGHT
619
28-May-2024
13:05



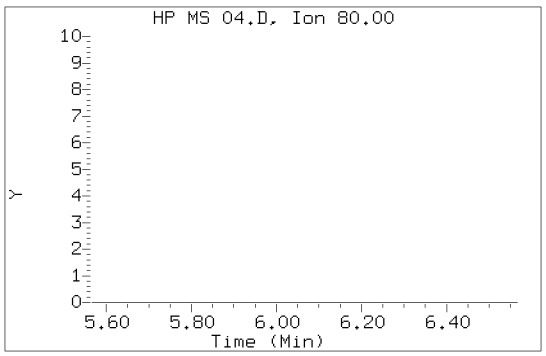
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

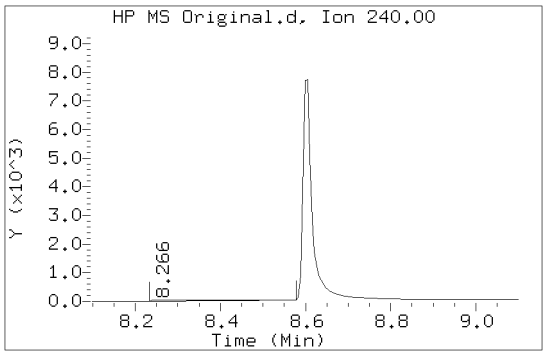


Chrysene-d12 (1719-03-5)

Reason Code:

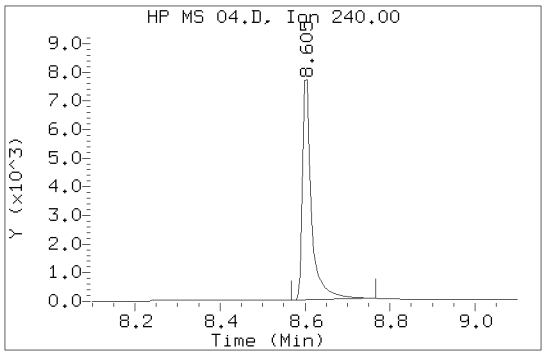
BEFORE

MASS
240
AREA
456
HEIGHT
48
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
240
AREA
11333
HEIGHT
7679
28-May-2024
13:05

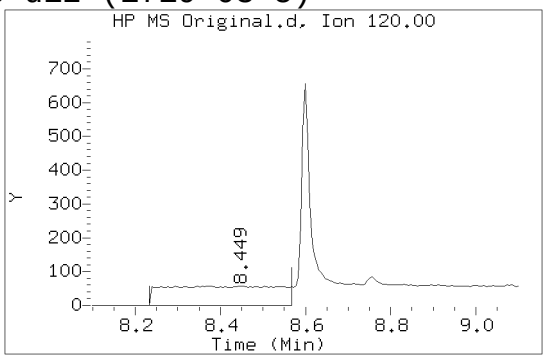


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

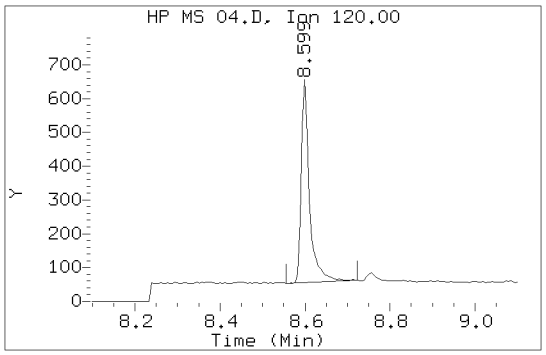
Chrysene-d12 (1719-03-5)

Reason Code:

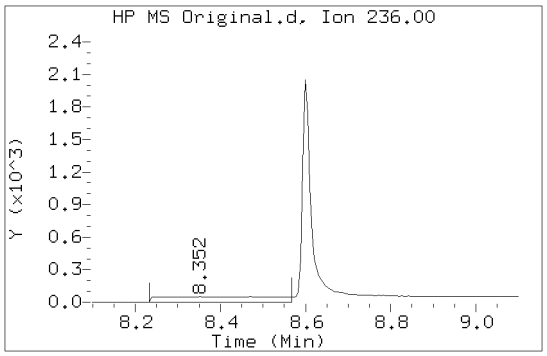
BEFORE
MASS
120
AREA
1092
HEIGHT
57
18-Apr-2024
13:10
ALSHS
Server



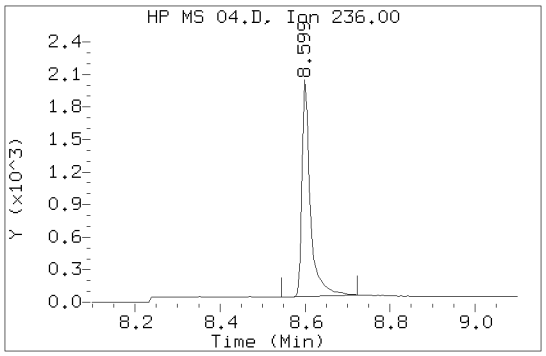
AFTER
MASS
120
AREA
786
HEIGHT
599
28-May-2024
13:05



BEFORE
MASS
236
AREA
988
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



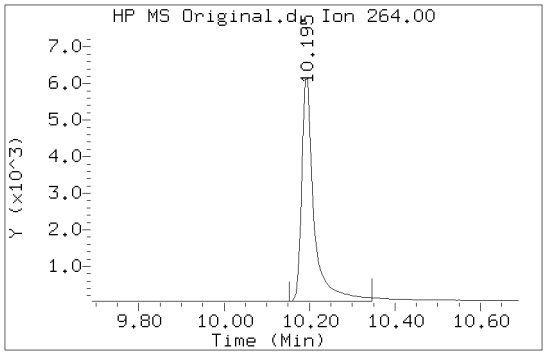
AFTER
MASS
236
AREA
2680
HEIGHT
1995
28-May-2024
13:05



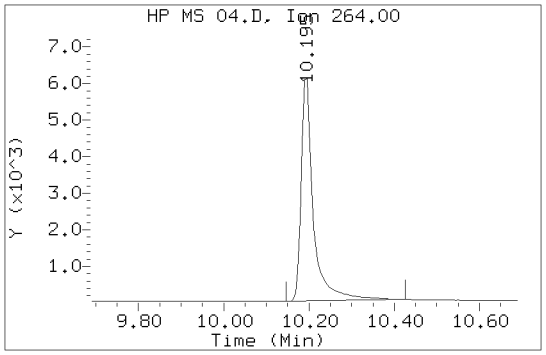
Perylene-d12 (1520-96-3)

Reason Code:

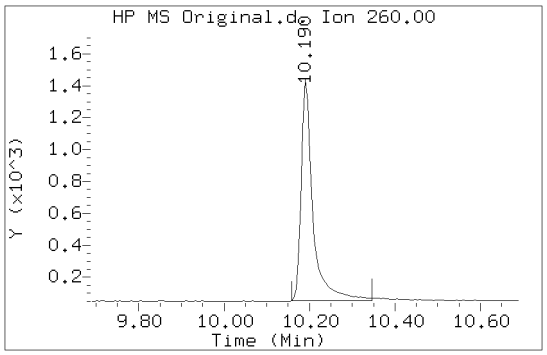
BEFORE
MASS
264
AREA
12161
HEIGHT
6073
18-Apr-2024
13:10
ALSHS
Server



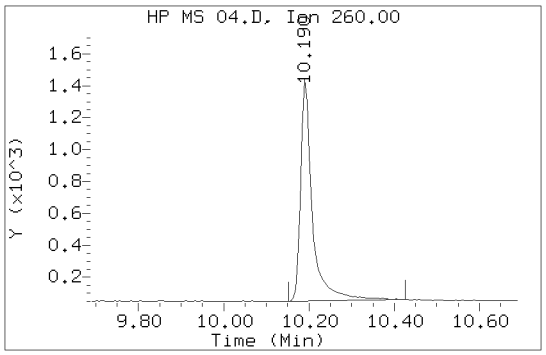
AFTER
MASS
264
AREA
12071
HEIGHT
6065
28-May-2024
13:05



BEFORE
MASS
260
AREA
2633
HEIGHT
1385
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
260
AREA
2644
HEIGHT
1385
28-May-2024
13:05



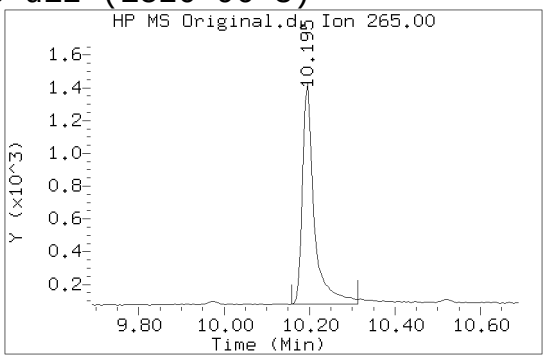
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Perylene-d12 (1520-96-3)

Reason Code:

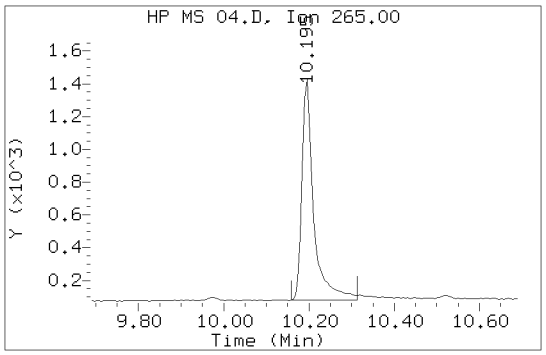
BEFORE

MASS
265
AREA
2550
HEIGHT
1343
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
265
AREA
2550
HEIGHT
1343
28-May-2024
13:05

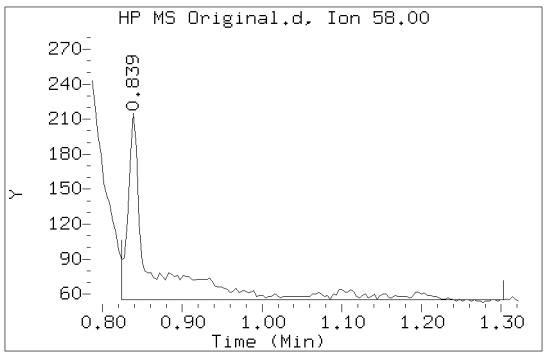


1,4-Dioxane ()

Reason Code:

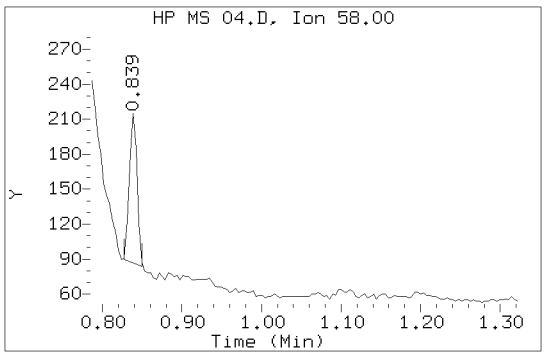
BEFORE

MASS
58
AREA
329
HEIGHT
160
18-Apr-2024
13:10
ALSHS
Server



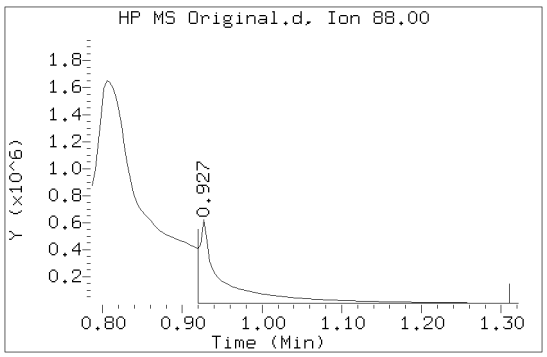
AFTER

MASS
58
AREA
87
HEIGHT
128
28-May-2024
13:05



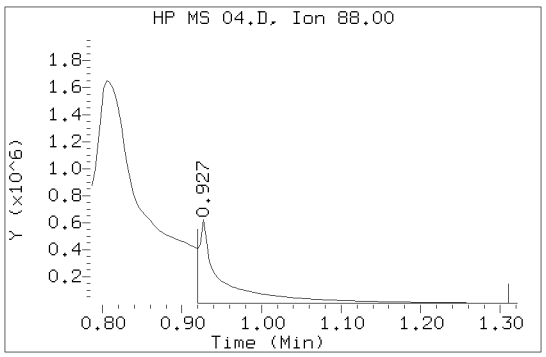
BEFORE

MASS
88
AREA
1289287
HEIGHT
619255
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
88
AREA
1289287
HEIGHT
619255
28-May-2024
13:05

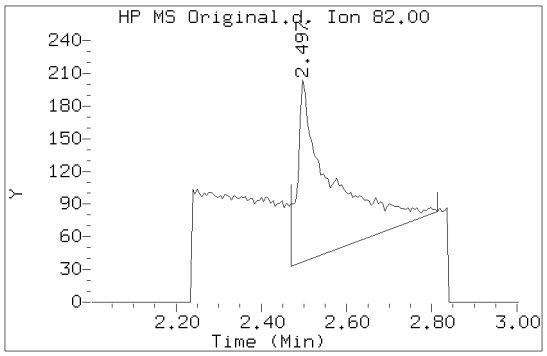


Nitrobenzene-d5 (4165-60-0)

Reason Code:

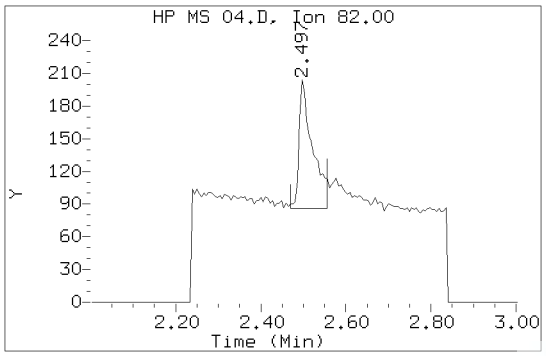
BEFORE

MASS
82
AREA
946
HEIGHT
167
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
82
AREA
262
HEIGHT
118
28-May-2024
13:05

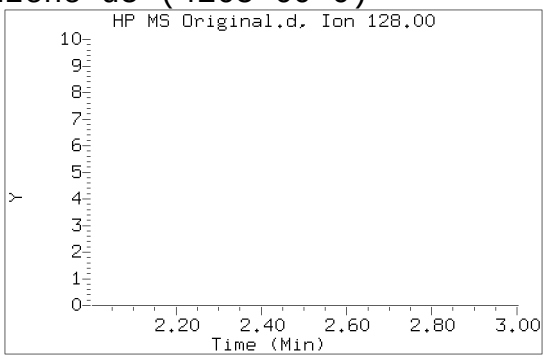


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

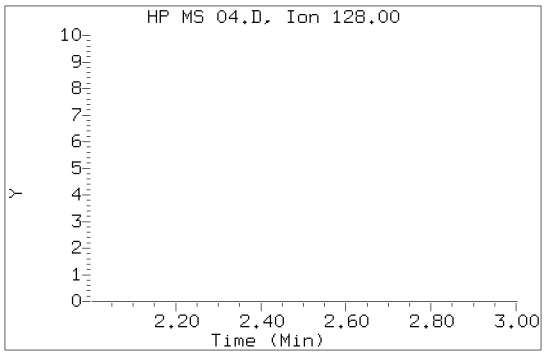
Nitrobenzene-d5 (4165-60-0)

Reason Code:

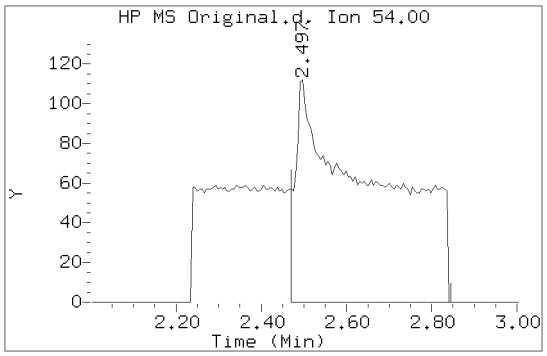
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



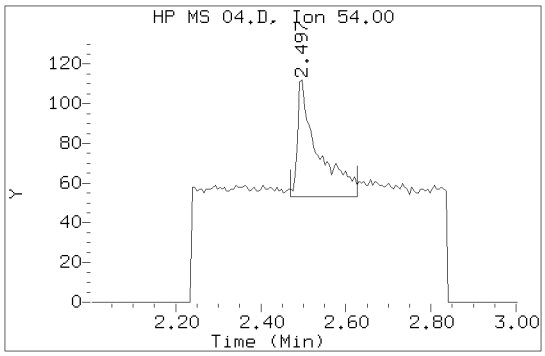
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1431
HEIGHT
112
18-Apr-2024
13:10
ALSHS
Server



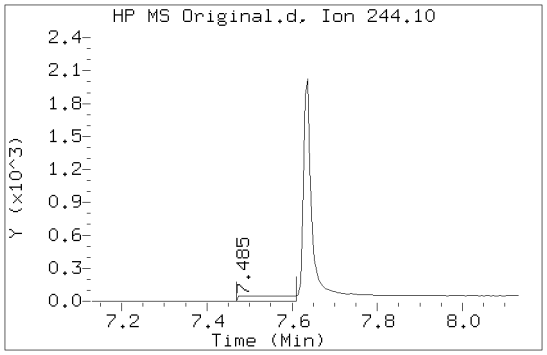
AFTER
MASS
54
AREA
197
HEIGHT
59
28-May-2024
13:05



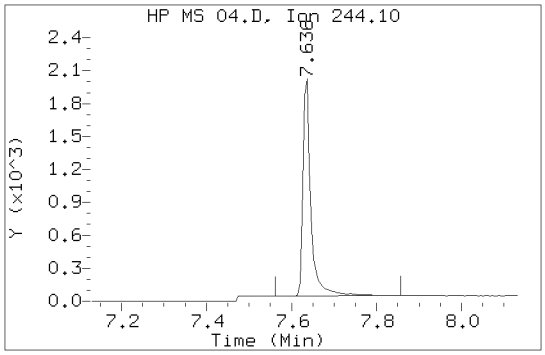
4-Terphenyl-d14 (1718-51-0)

Reason Code:

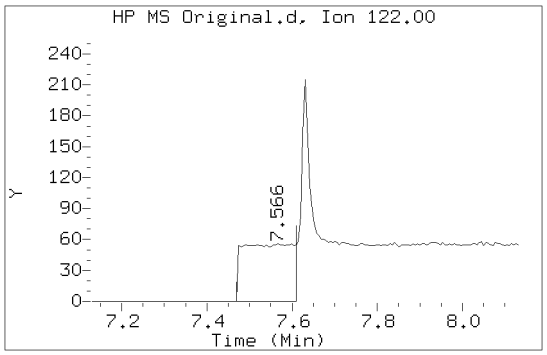
BEFORE
MASS
244.1
AREA
404
HEIGHT
49
18-Apr-2024
13:10
ALSHS
Server



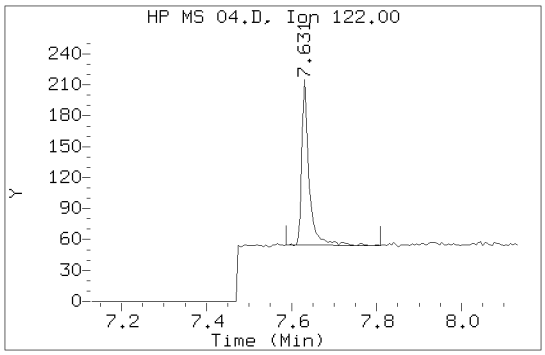
AFTER
MASS
244.1
AREA
2521
HEIGHT
1975
28-May-2024
13:05



BEFORE
MASS
122
AREA
456
HEIGHT
56
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
122
AREA
187
HEIGHT
160
28-May-2024
13:05



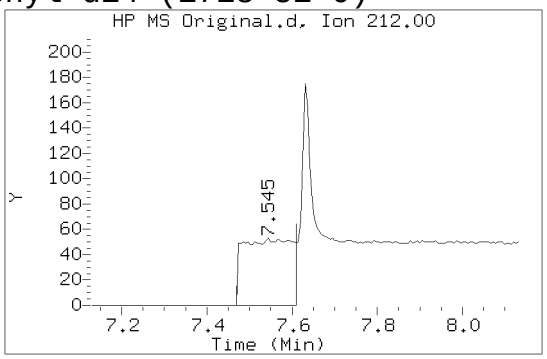
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

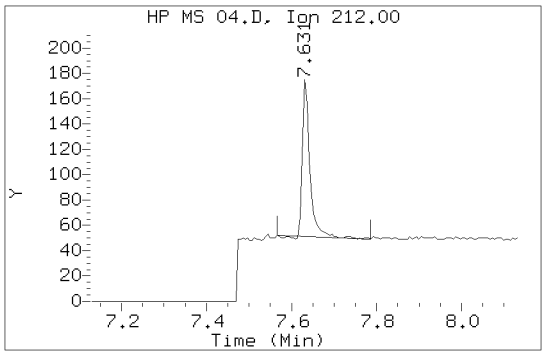
BEFORE

MASS
212
AREA
418
HEIGHT
53
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
212
AREA
146
HEIGHT
123
28-May-2024
13:05

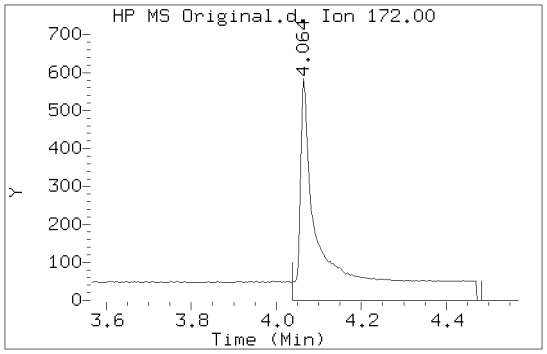


2-Fluorobiphenyl (321-60-8)

Reason Code:

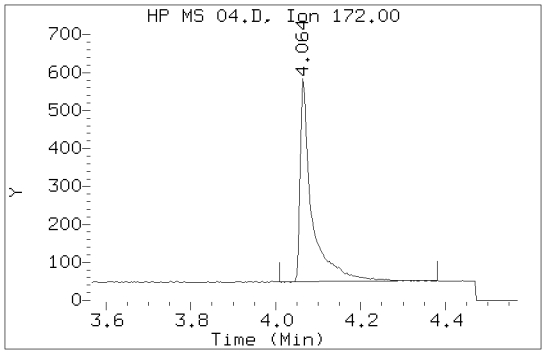
BEFORE

MASS
172
AREA
2355
HEIGHT
584
18-Apr-2024
13:10
ALSHS
Server



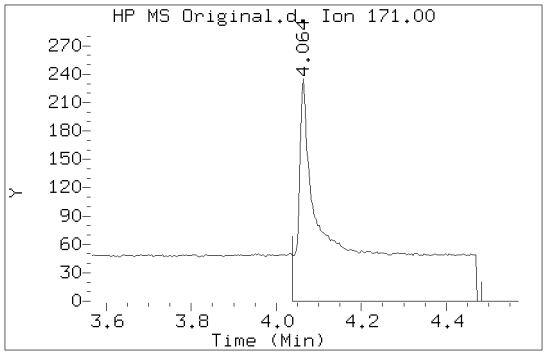
AFTER

MASS
172
AREA
1018
HEIGHT
534
28-May-2024
13:05



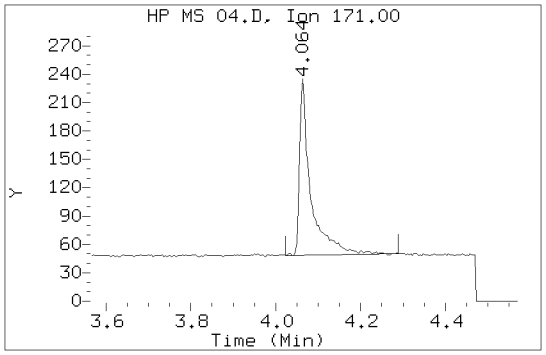
BEFORE

MASS
171
AREA
1637
HEIGHT
235
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
171
AREA
346
HEIGHT
186
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Lab Smp Id: 14DX-0.03
Inj Date : 18-APR-2024 13:07
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:07 Cal File: 05.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.088	2.089	(1.000)	2278	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	6857	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	570	0.03000	0.02769(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	3891	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	1731	0.03000	0.02910(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	7578	0.10000	(M)
* 182 Chrysene-d12	240	8.598	8.599	(1.000)	6445	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	3857	0.03000	0.02938(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	6635	0.10000	
1 1,4-Dioxane	58	0.827	0.820	(0.396)	138	0.03000	0.02828(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D

Date : 18-APR-2024 13:07

Client ID:

Instrument: SV6.i

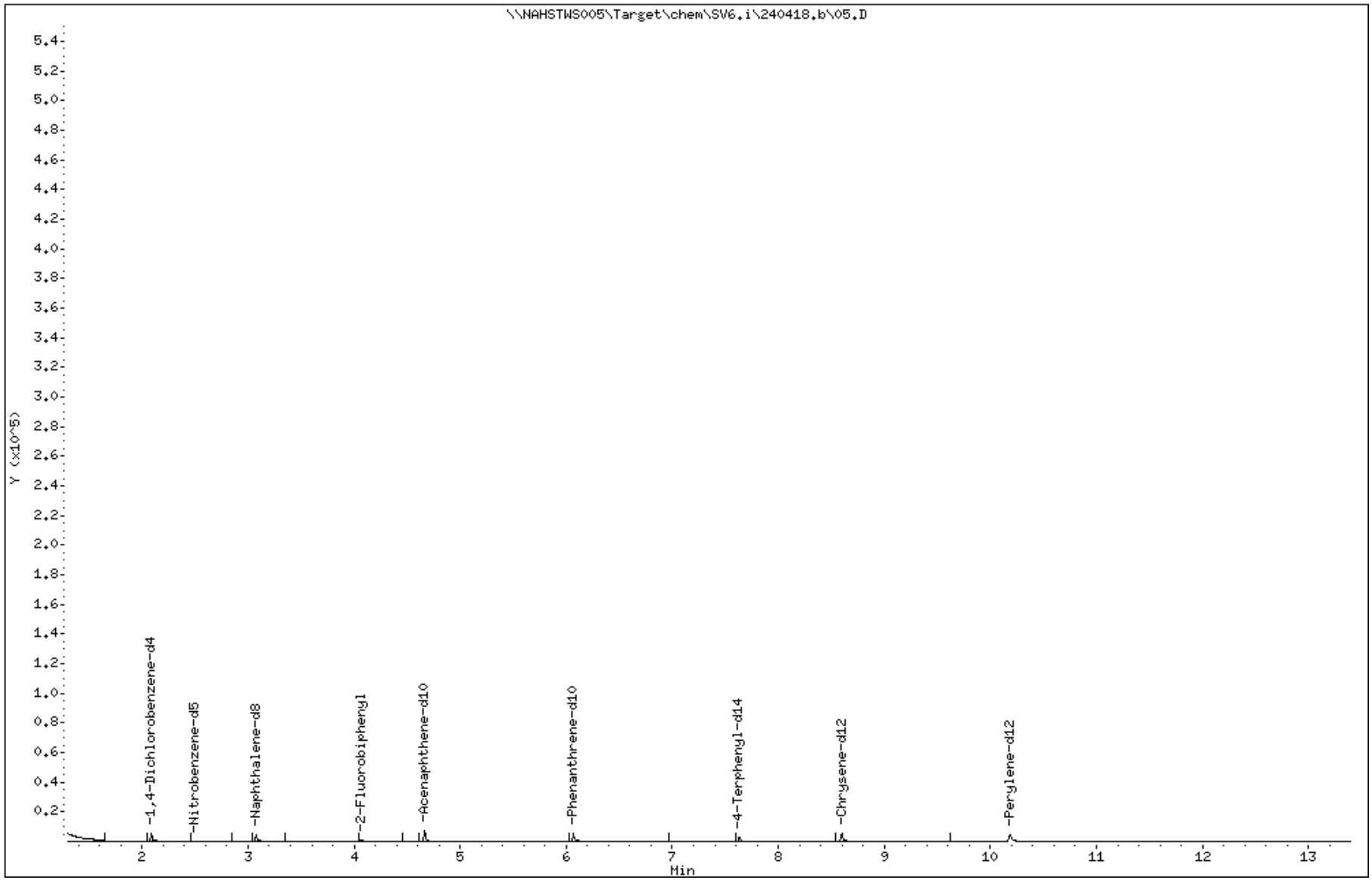
Sample Info: 14DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

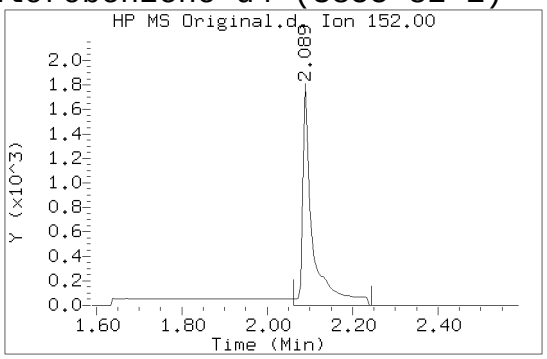


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

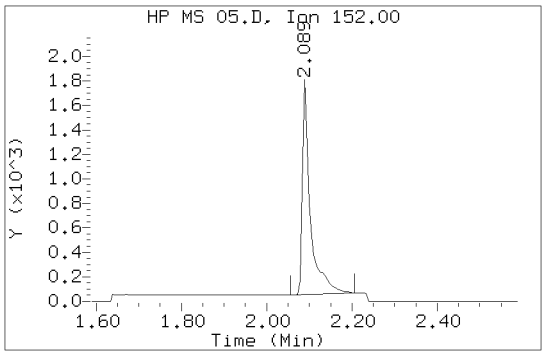
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

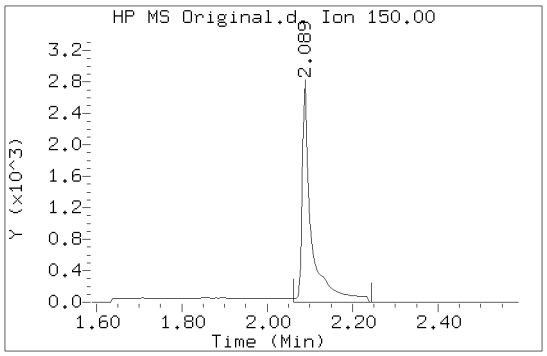
BEFORE
MASS
152
AREA
2919
HEIGHT
1810
18-Apr-2024
13:21
ALSHS
Server



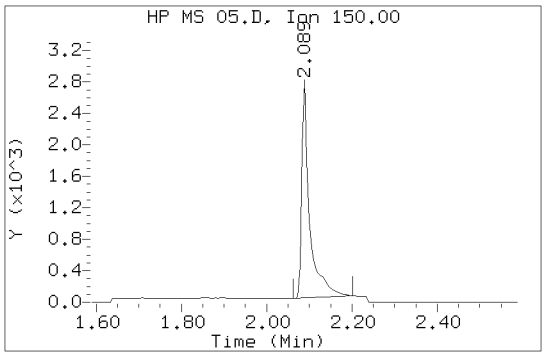
AFTER
MASS
152
AREA
2278
HEIGHT
1755
28-May-2024
13:05



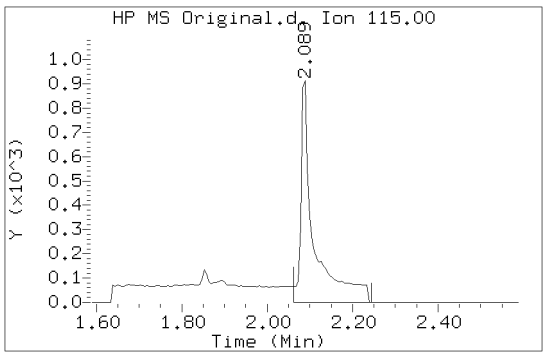
BEFORE
MASS
150
AREA
4252
HEIGHT
2826
18-Apr-2024
13:21
ALSHS
Server



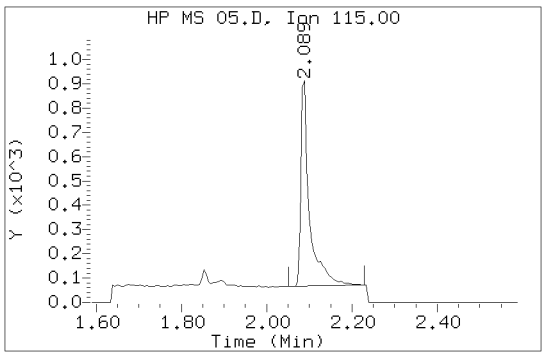
AFTER
MASS
150
AREA
3521
HEIGHT
2768
28-May-2024
13:05



BEFORE
MASS
115
AREA
1932
HEIGHT
913
18-Apr-2024
13:21
ALSHS
Server



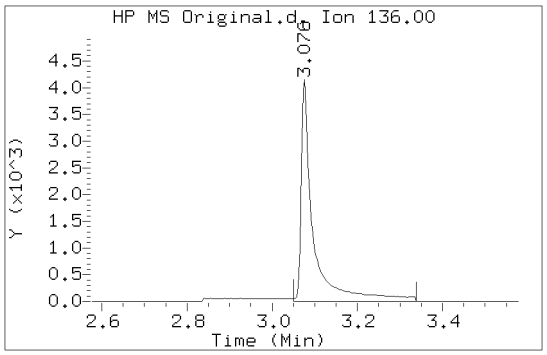
AFTER
MASS
115
AREA
1207
HEIGHT
846
28-May-2024
13:05



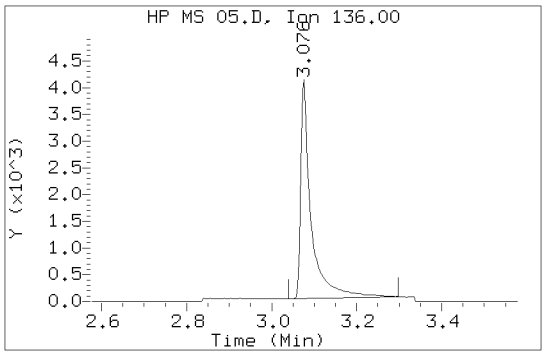
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8079
HEIGHT
4148
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
136
AREA
6857
HEIGHT
4091
28-May-2024
13:05



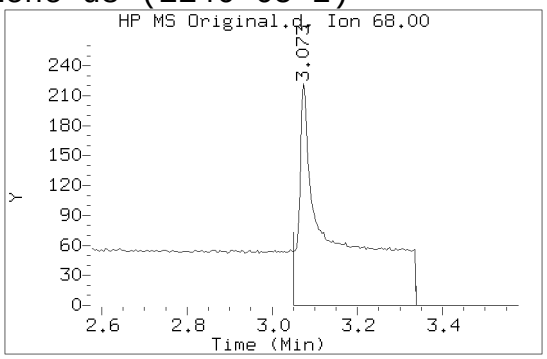
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

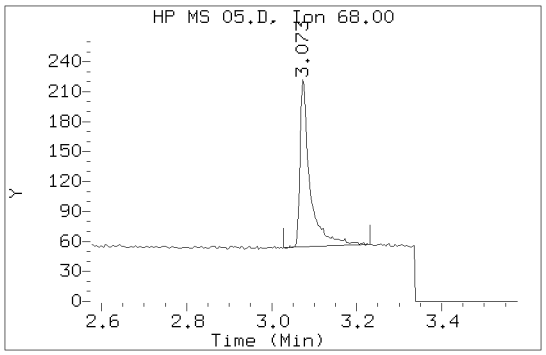
BEFORE

MASS
68
AREA
1234
HEIGHT
222
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
68
AREA
270
HEIGHT
167
28-May-2024
13:05

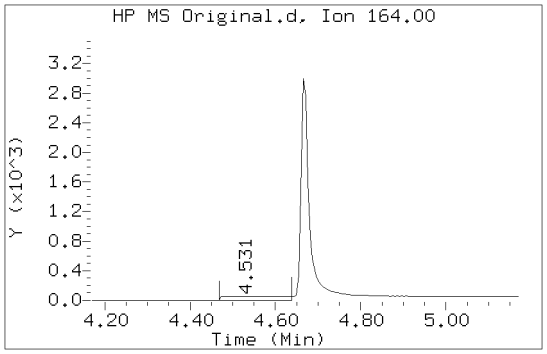


Acenaphthene-d10 (15067-26-2)

Reason Code:

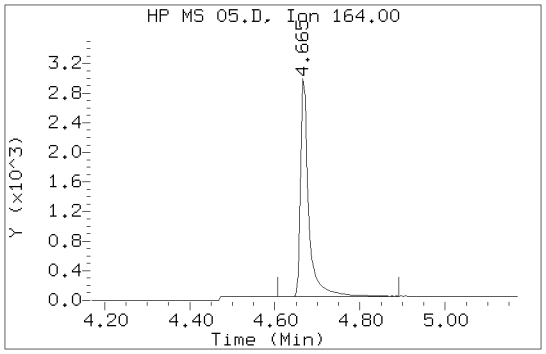
BEFORE

MASS
164
AREA
504
HEIGHT
51
18-Apr-2024
13:21
ALSHS
Server



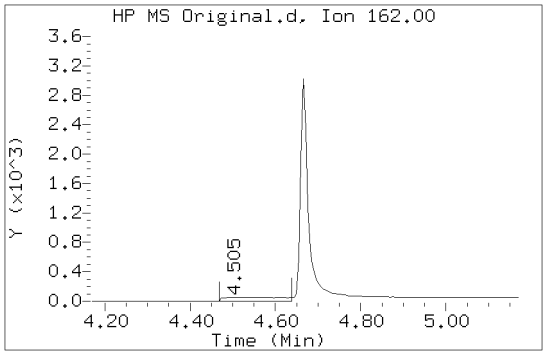
AFTER

MASS
164
AREA
3891
HEIGHT
2944
28-May-2024
13:05



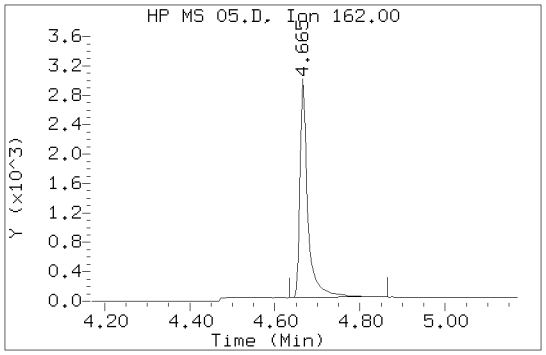
BEFORE

MASS
162
AREA
505
HEIGHT
54
18-Apr-2024
13:21
ALSHS
Server



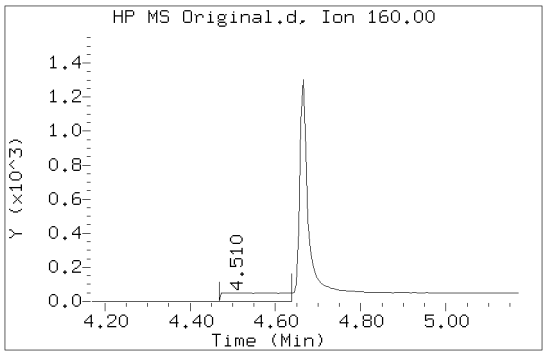
AFTER

MASS
162
AREA
3749
HEIGHT
2972
28-May-2024
13:05



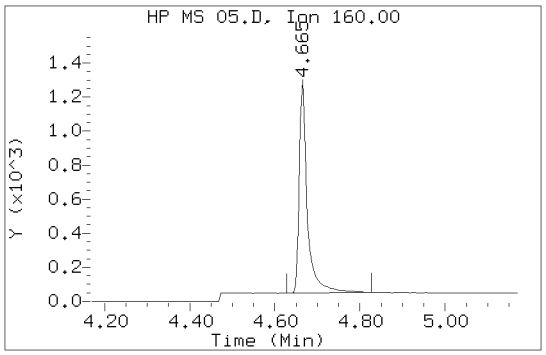
BEFORE

MASS
160
AREA
490
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
160
AREA
1625
HEIGHT
1253
28-May-2024
13:05



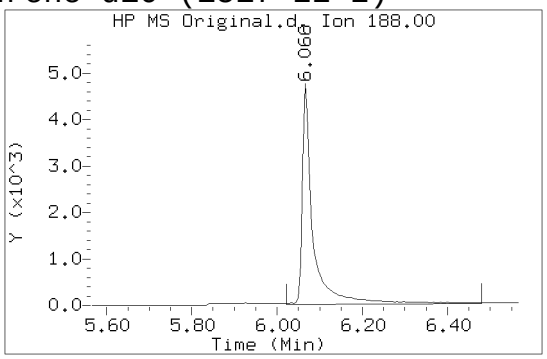
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Phenanthrene-d10 (1517-22-2)

Reason Code:

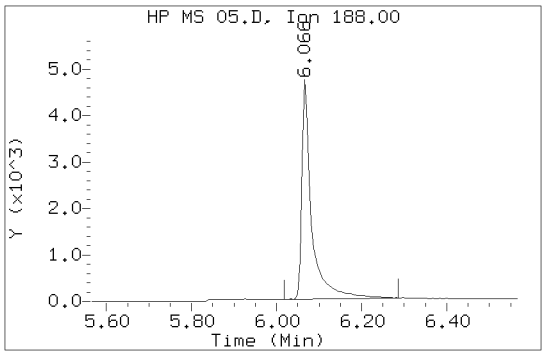
BEFORE

MASS
188
AREA
8422
HEIGHT
4756
18-Apr-2024
13:21
ALSHS
Server



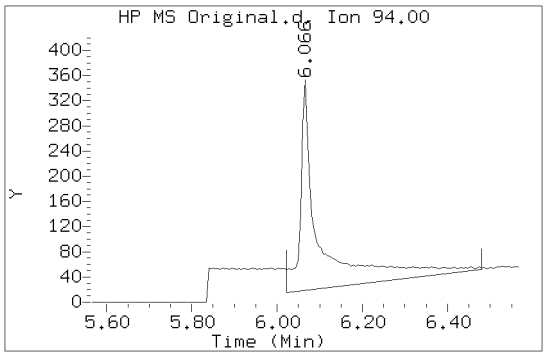
AFTER

MASS
188
AREA
7578
HEIGHT
4722
28-May-2024
13:05



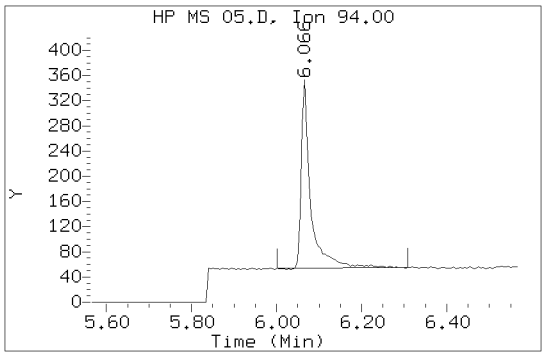
BEFORE

MASS
94
AREA
1045
HEIGHT
334
18-Apr-2024
13:21
ALSHS
Server



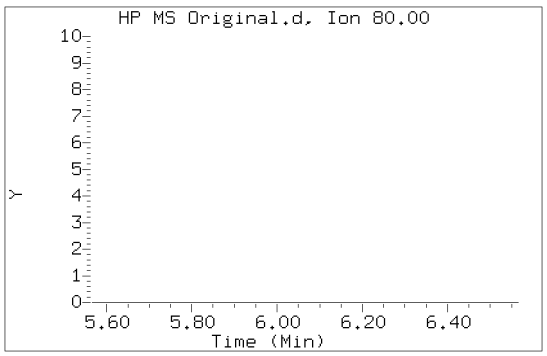
AFTER

MASS
94
AREA
460
HEIGHT
298
28-May-2024
13:05



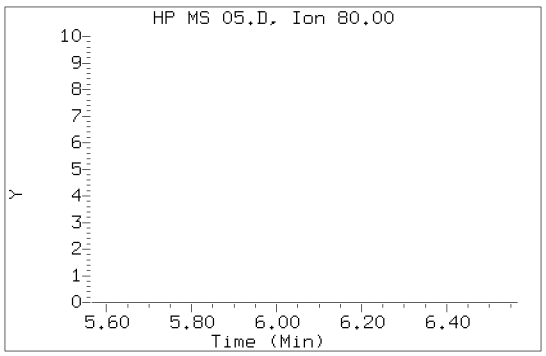
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

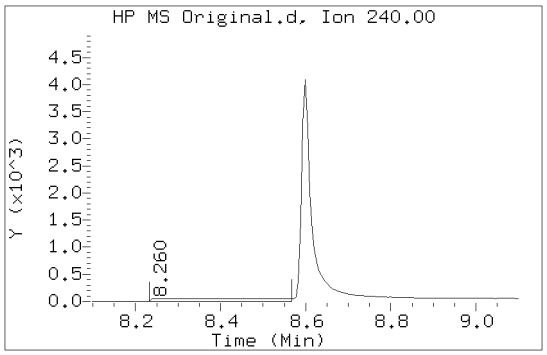


Chrysene-d12 (1719-03-5)

Reason Code:

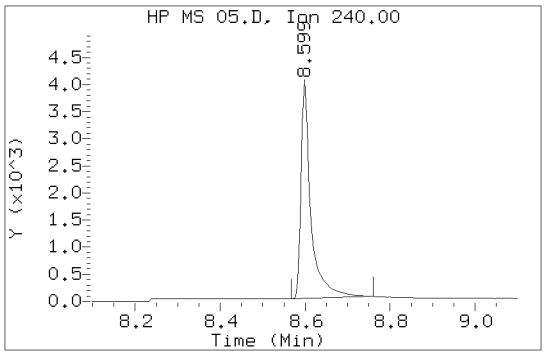
BEFORE

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
240
AREA
6445
HEIGHT
4036
28-May-2024
13:05



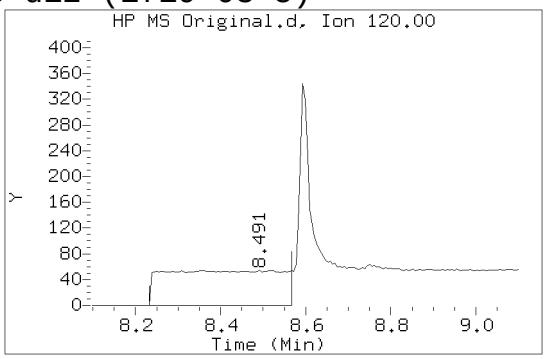
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Chrysene-d12 (1719-03-5)

Reason Code:

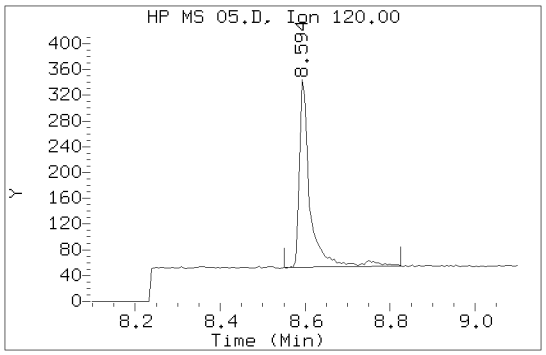
BEFORE

MASS
120
AREA
1053
HEIGHT
55
18-Apr-2024
13:21
ALSHS
Server



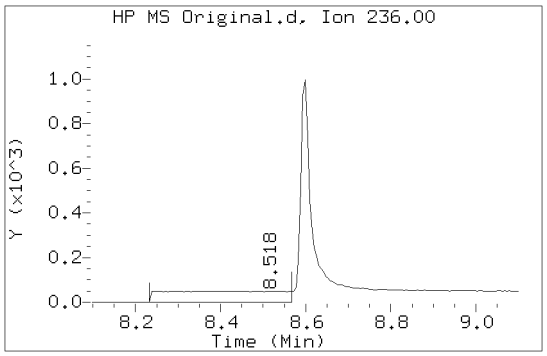
AFTER

MASS
120
AREA
500
HEIGHT
290
28-May-2024
13:05



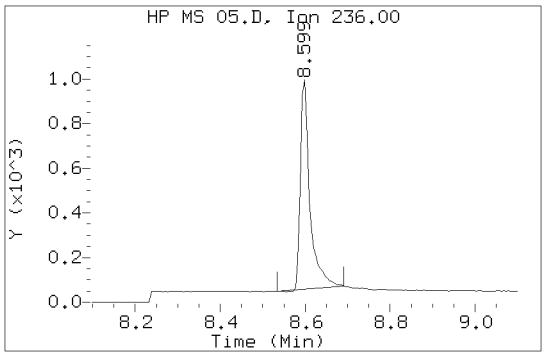
BEFORE

MASS
236
AREA
963
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
236
AREA
1446
HEIGHT
938
28-May-2024
13:05

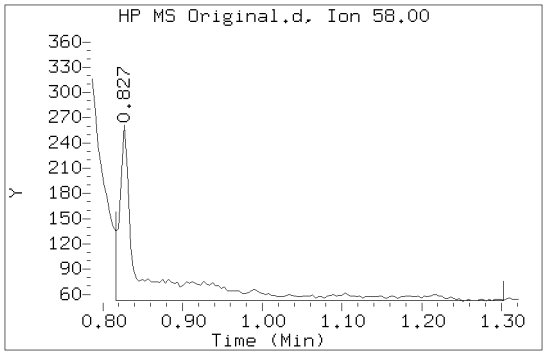


1,4-Dioxane ()

Reason Code:

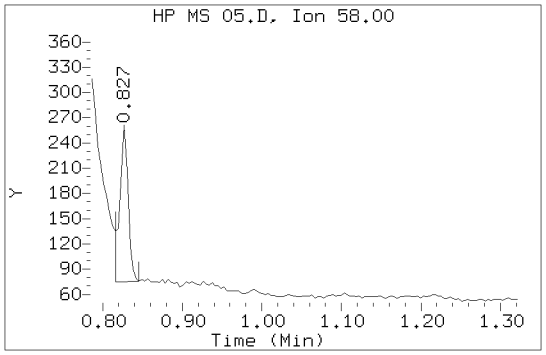
BEFORE

MASS
58
AREA
414
HEIGHT
208
18-Apr-2024
13:21
ALSHS
Server



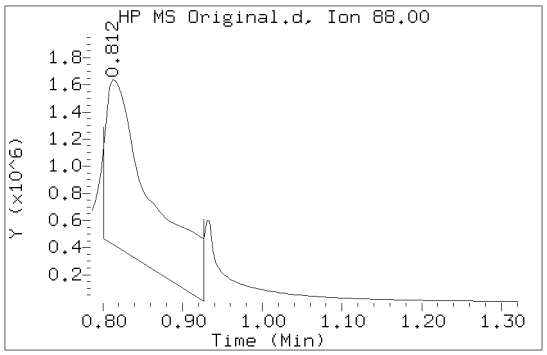
AFTER

MASS
58
AREA
138
HEIGHT
185
28-May-2024
13:05



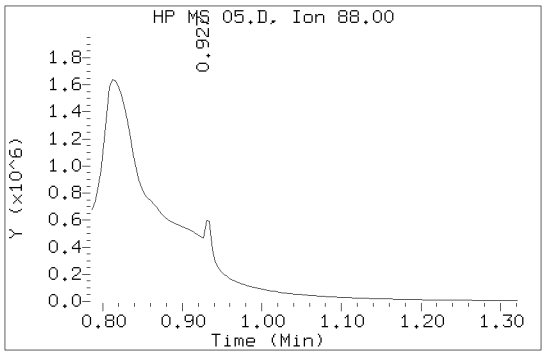
BEFORE

MASS
88
AREA
4998904
HEIGHT
1209480
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

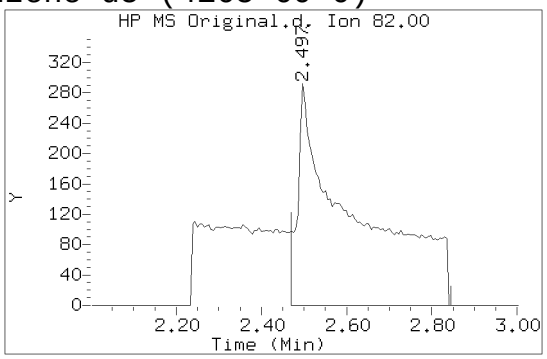


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

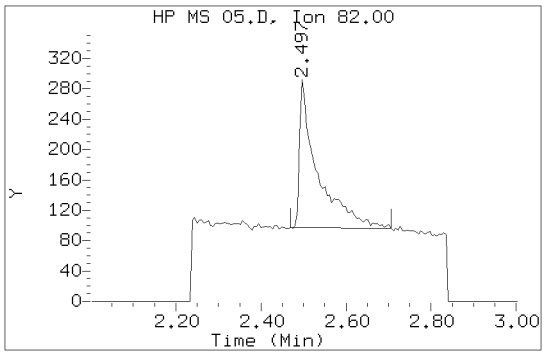
Nitrobenzene-d5 (4165-60-0)

Reason Code:

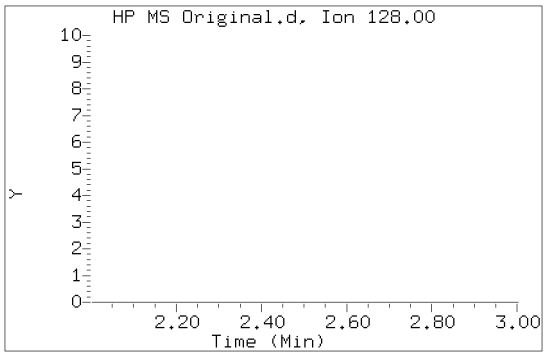
BEFORE
MASS
82
AREA
2662
HEIGHT
292
18-Apr-2024
13:21
ALSHS
Server



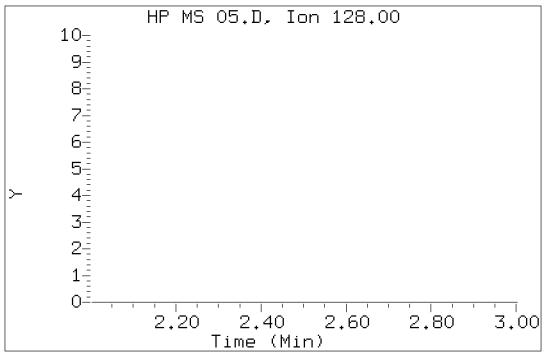
AFTER
MASS
82
AREA
570
HEIGHT
195
28-May-2024
13:05



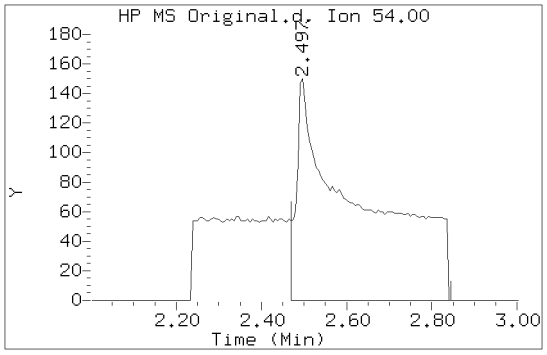
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



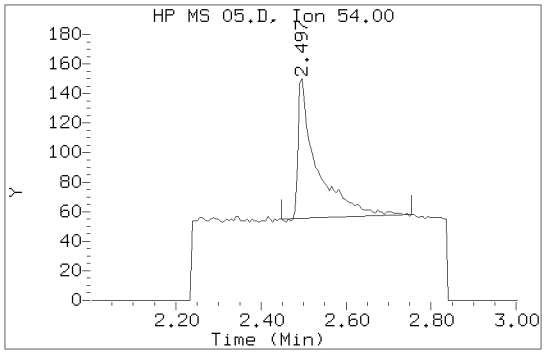
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1538
HEIGHT
150
18-Apr-2024
13:21
ALSHS
Server



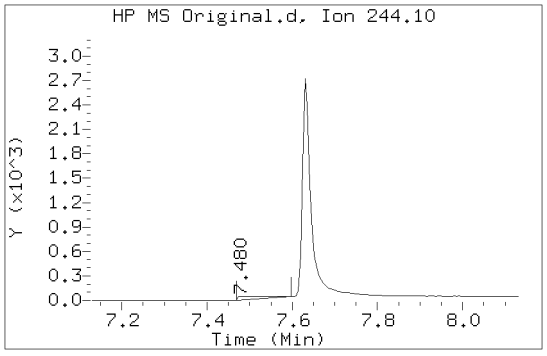
AFTER
MASS
54
AREA
289
HEIGHT
94
28-May-2024
13:05



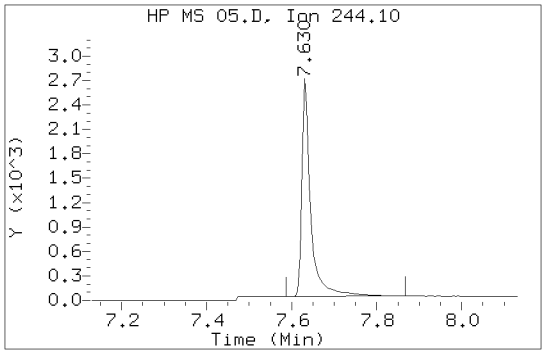
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
174
HEIGHT
44
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
244.1
AREA
3857
HEIGHT
2674
28-May-2024
13:05

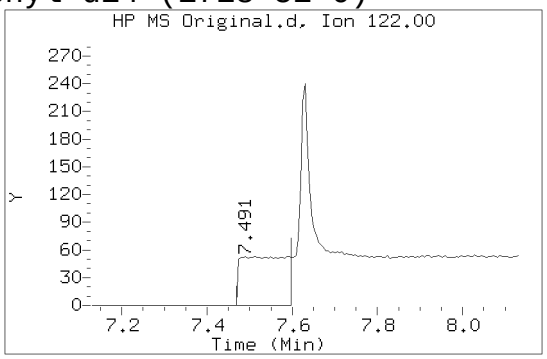


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

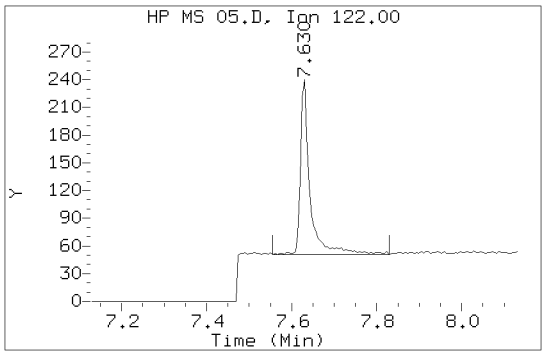
4-Terphenyl-d14 (1718-51-0)

Reason Code:

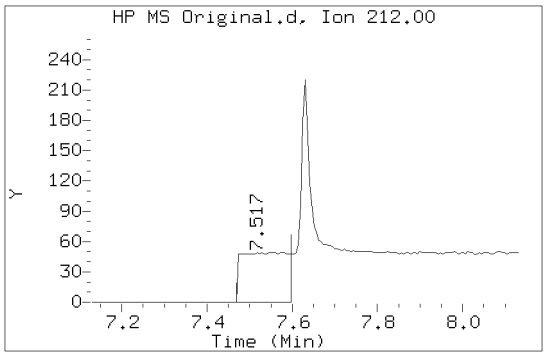
BEFORE
MASS
122
AREA
401
HEIGHT
53
18-Apr-2024
13:21
ALSHS
Server



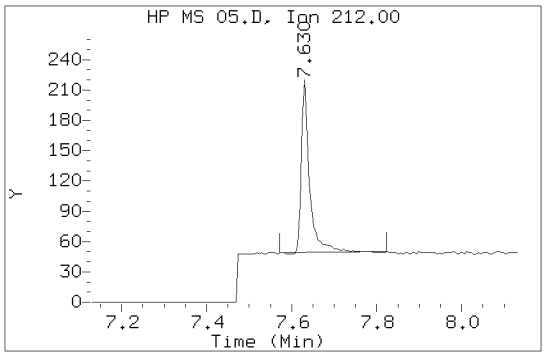
AFTER
MASS
122
AREA
296
HEIGHT
189
28-May-2024
13:05



BEFORE
MASS
212
AREA
374
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



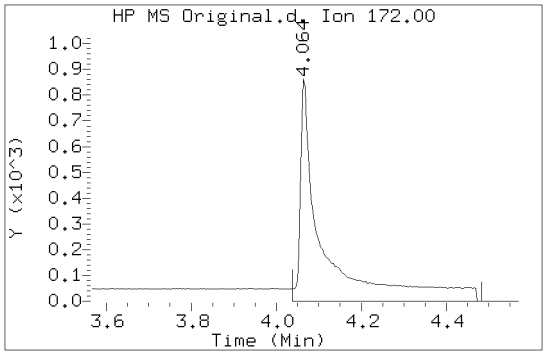
AFTER
MASS
212
AREA
227
HEIGHT
170
28-May-2024
13:05



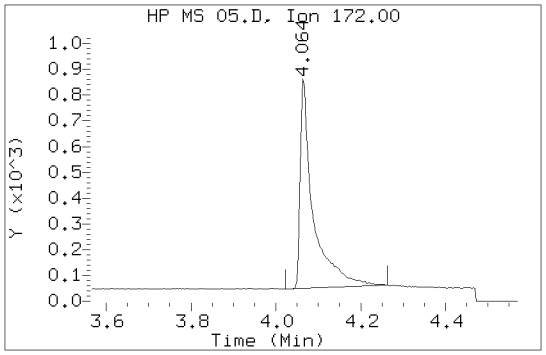
2-Fluorobiphenyl (321-60-8)

Reason Code:

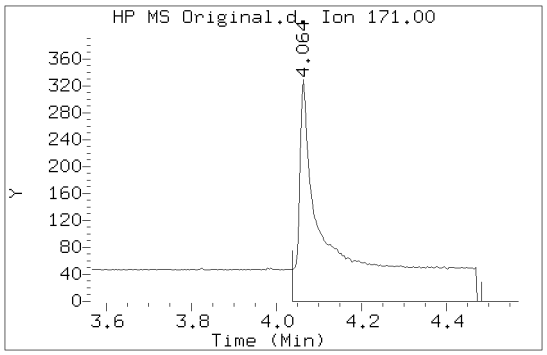
BEFORE
MASS
172
AREA
3193
HEIGHT
863
18-Apr-2024
13:21
ALSHS
Server



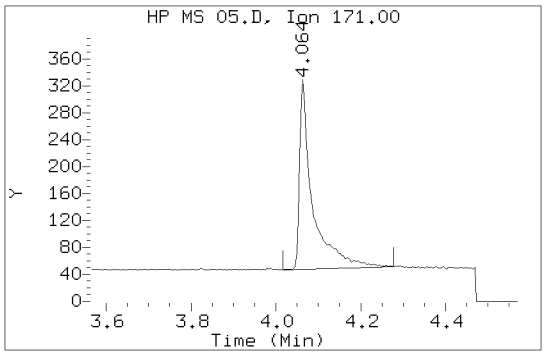
AFTER
MASS
172
AREA
1731
HEIGHT
812
28-May-2024
13:05



BEFORE
MASS
171
AREA
1906
HEIGHT
329
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
171
AREA
602
HEIGHT
281
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Lab Smp Id: 14DX-0.05
Inj Date : 18-APR-2024 13:25
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:25 Cal File: 06.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3152	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9502	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	1589	0.05000	0.05570(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6015	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	4588	0.05000	0.04990(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	11597	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	10029	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	10047	0.05000	0.04918(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	10408	0.10000	(M)
1 1,4-Dioxane	58	0.849	0.820	(0.406)	339	0.05000	0.05021(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D

Date : 18-APR-2024 13:25

Client ID:

Instrument: SV6.i

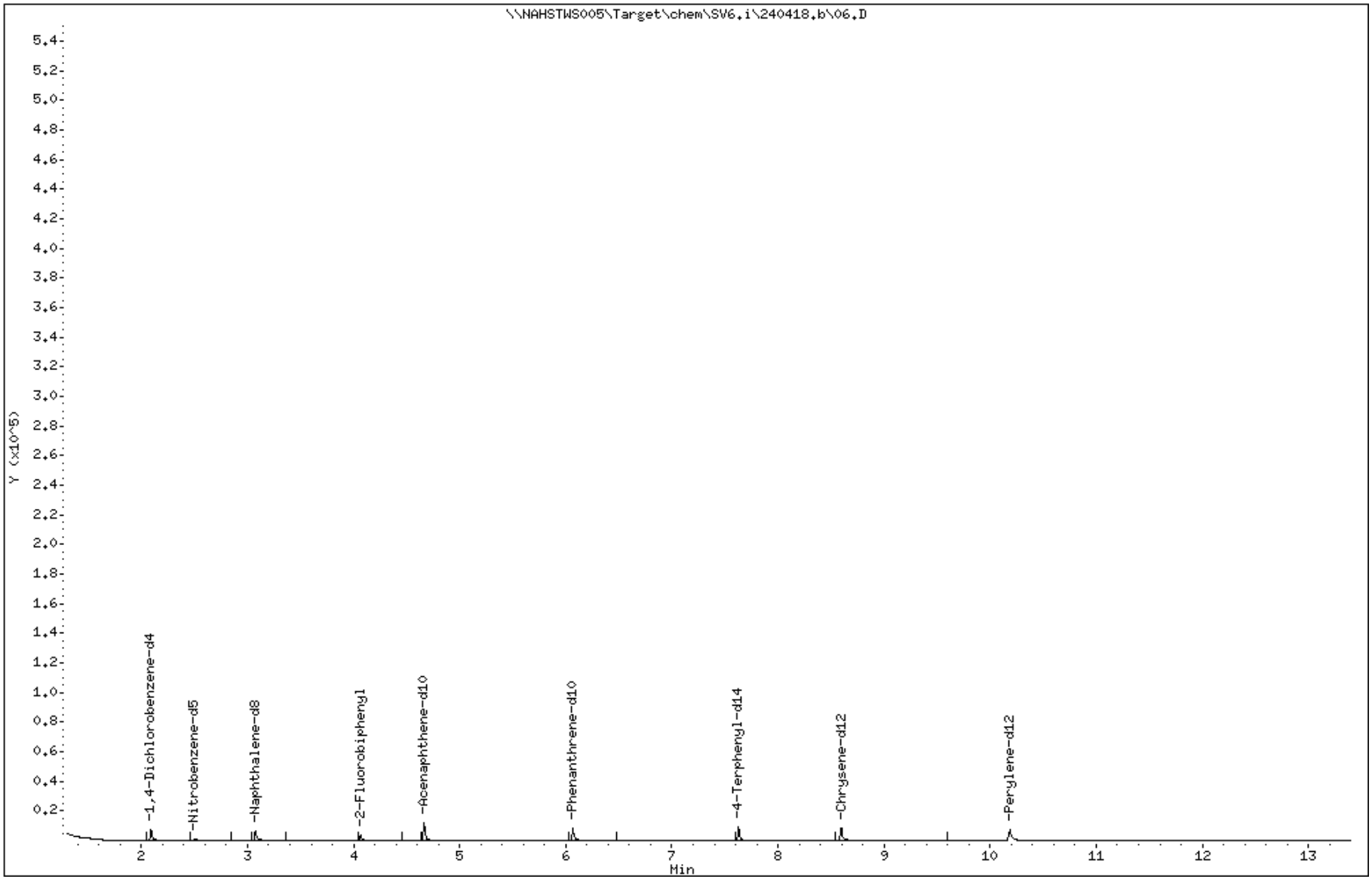
Sample Info: 14DX-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

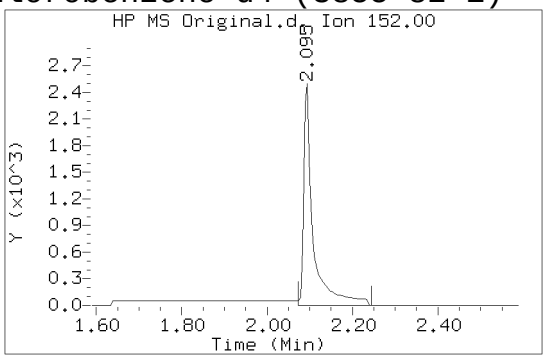


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

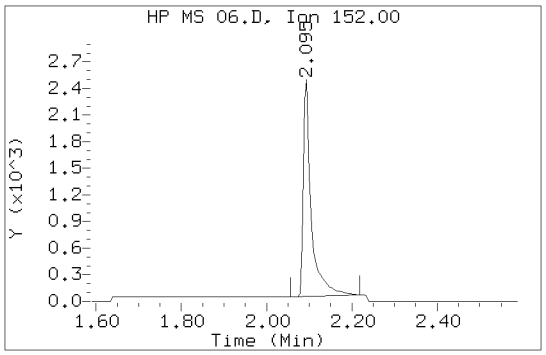
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

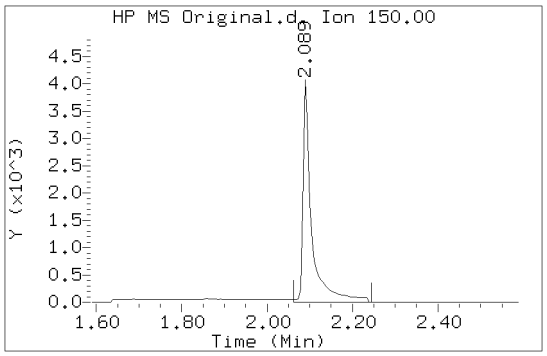
BEFORE
MASS
152
AREA
3790
HEIGHT
2499
18-Apr-2024
13:40
ALSHS
Server



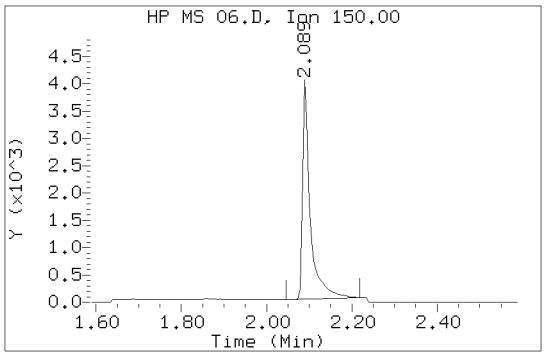
AFTER
MASS
152
AREA
3152
HEIGHT
2443
28-May-2024
13:05



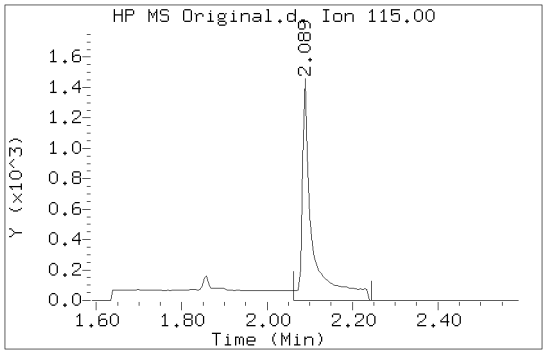
BEFORE
MASS
150
AREA
5683
HEIGHT
4072
18-Apr-2024
13:40
ALSHS
Server



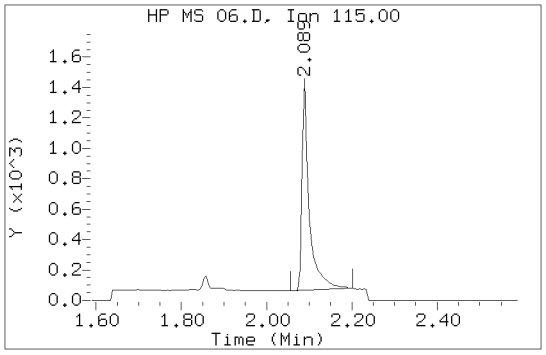
AFTER
MASS
150
AREA
4936
HEIGHT
4013
28-May-2024
13:05



BEFORE
MASS
115
AREA
2390
HEIGHT
1458
18-Apr-2024
13:40
ALSHS
Server



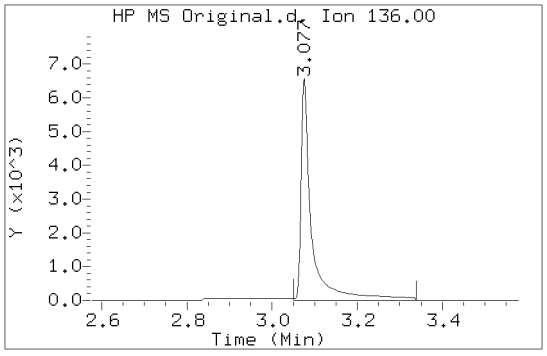
AFTER
MASS
115
AREA
1620
HEIGHT
1390
28-May-2024
13:05



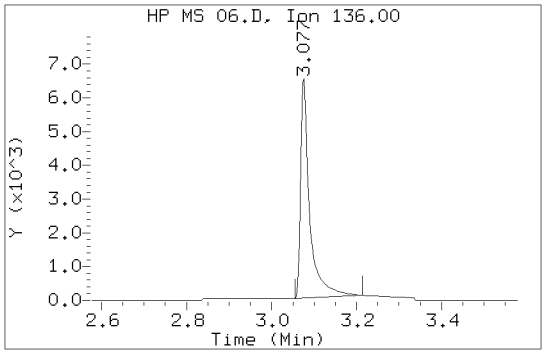
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11303
HEIGHT
6569
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
136
AREA
9502
HEIGHT
6499
28-May-2024
13:05



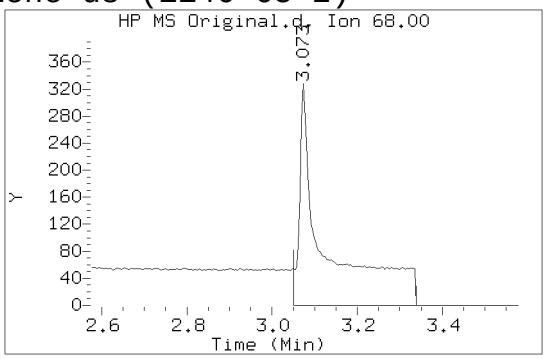
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Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

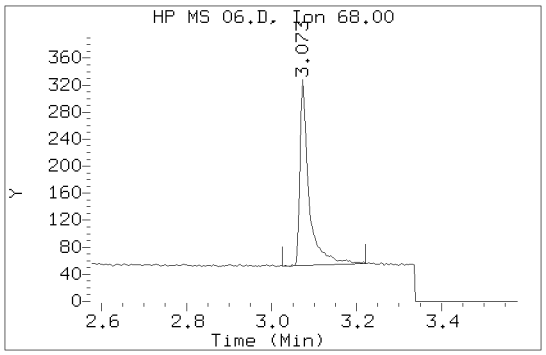
BEFORE

MASS
68
AREA
1344
HEIGHT
328
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
68
AREA
401
HEIGHT
275
28-May-2024
13:05

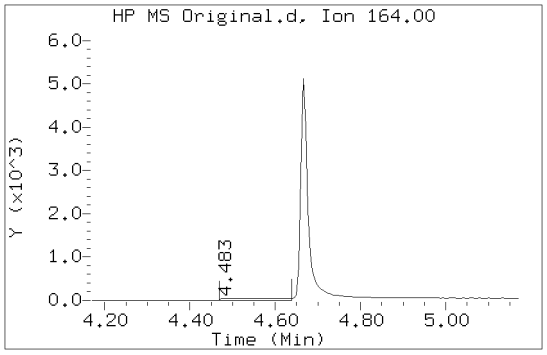


Acenaphthene-d10 (15067-26-2)

Reason Code:

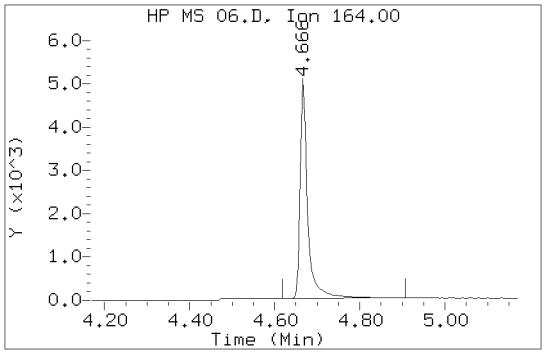
BEFORE

MASS
164
AREA
496
HEIGHT
51
18-Apr-2024
13:40
ALSHS
Server



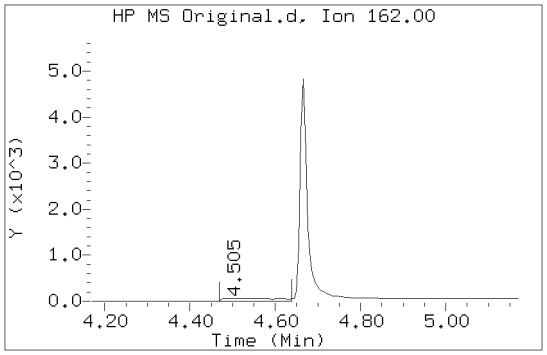
AFTER

MASS
164
AREA
6015
HEIGHT
5068
28-May-2024
13:05



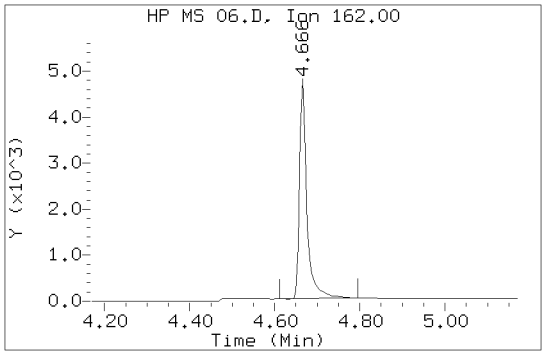
BEFORE

MASS
162
AREA
502
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



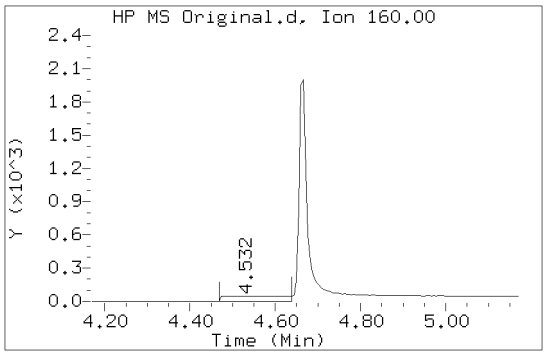
AFTER

MASS
162
AREA
5625
HEIGHT
4775
28-May-2024
13:05



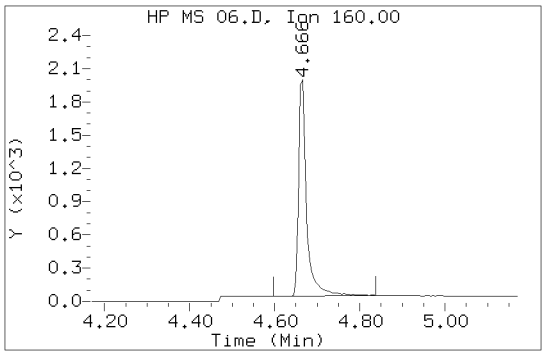
BEFORE

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
160
AREA
2508
HEIGHT
1951
28-May-2024
13:05



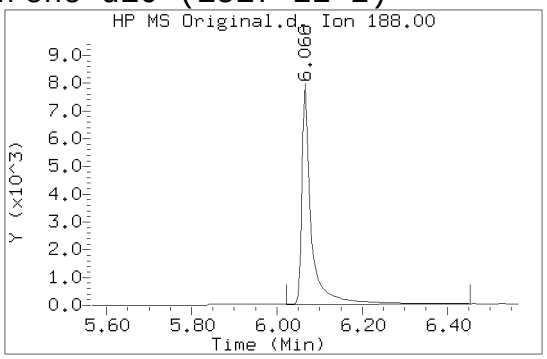
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Phenanthrene-d10 (1517-22-2)

Reason Code:

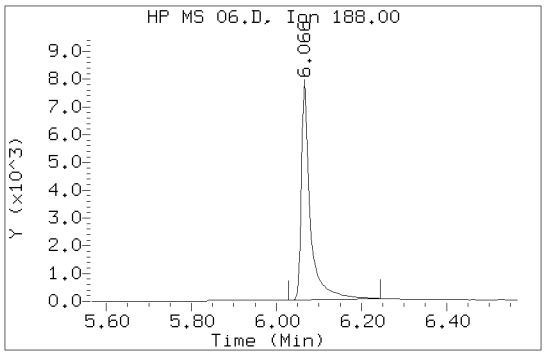
BEFORE

MASS
188
AREA
12630
HEIGHT
7964
18-Apr-2024
13:40
ALSHS
Server



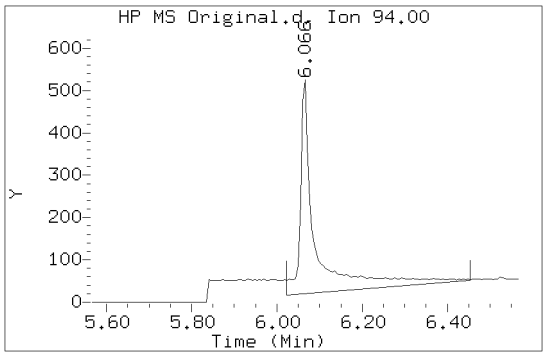
AFTER

MASS
188
AREA
11597
HEIGHT
7928
28-May-2024
13:05



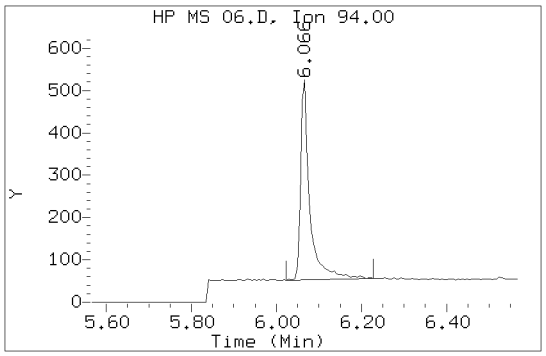
BEFORE

MASS
94
AREA
1254
HEIGHT
505
18-Apr-2024
13:40
ALSHS
Server



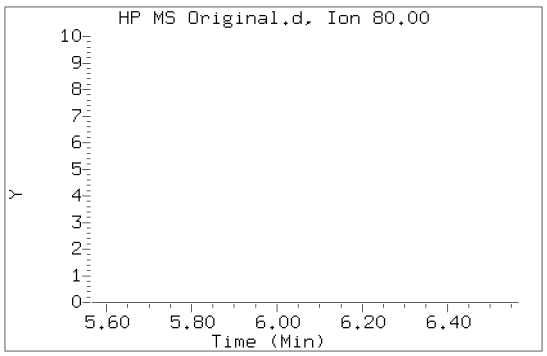
AFTER

MASS
94
AREA
716
HEIGHT
472
28-May-2024
13:05



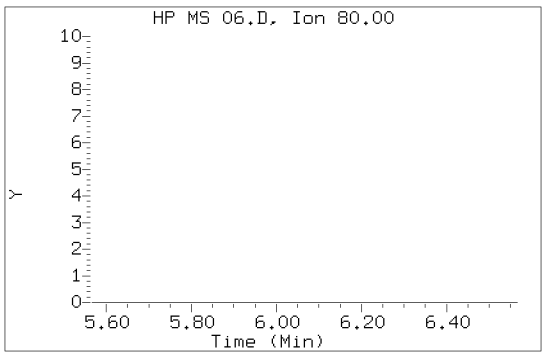
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
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AREA
0
HEIGHT
0
28-May-2024
13:05

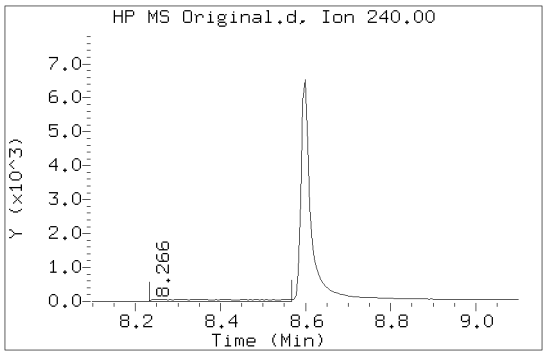


Chrysene-d12 (1719-03-5)

Reason Code:

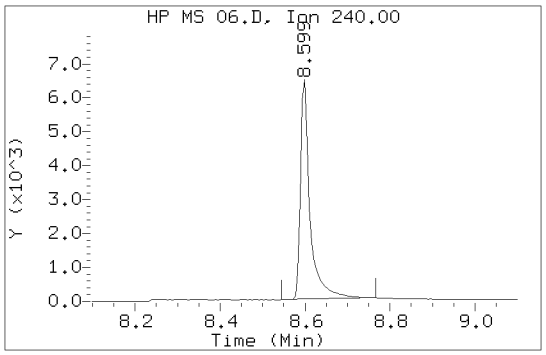
BEFORE

MASS
240
AREA
955
HEIGHT
50
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
240
AREA
10029
HEIGHT
6473
28-May-2024
13:05

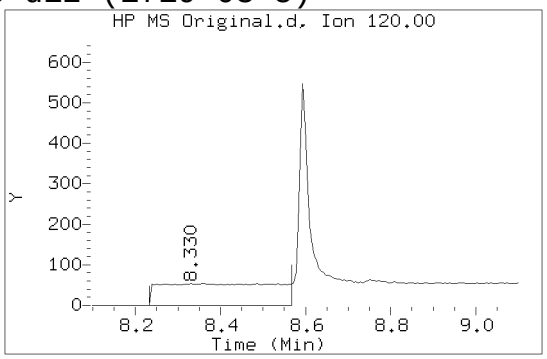


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

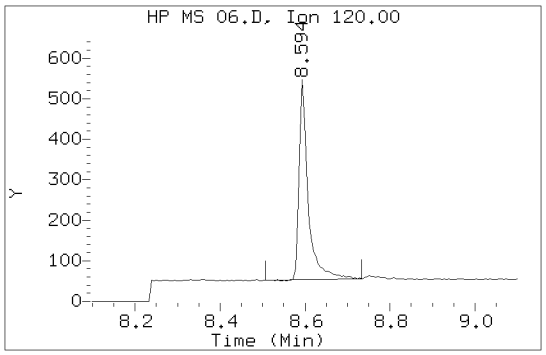
Chrysene-d12 (1719-03-5)

Reason Code:

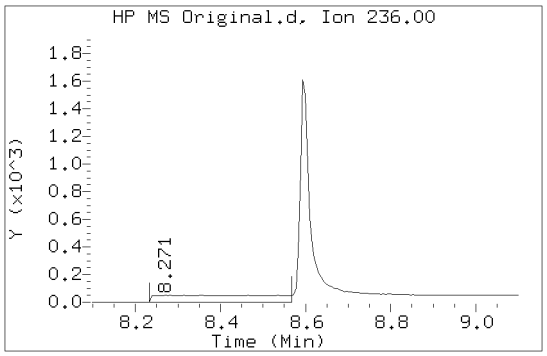
BEFORE
MASS
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AREA
1034
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



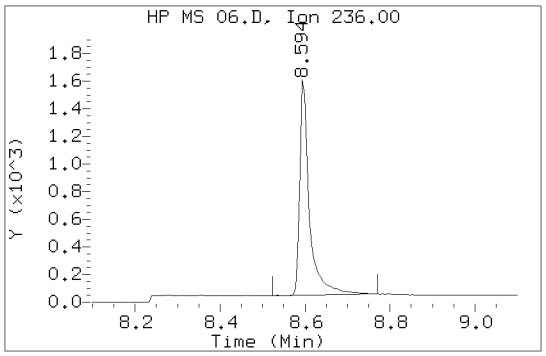
AFTER
MASS
120
AREA
729
HEIGHT
493
28-May-2024
13:05



BEFORE
MASS
236
AREA
955
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



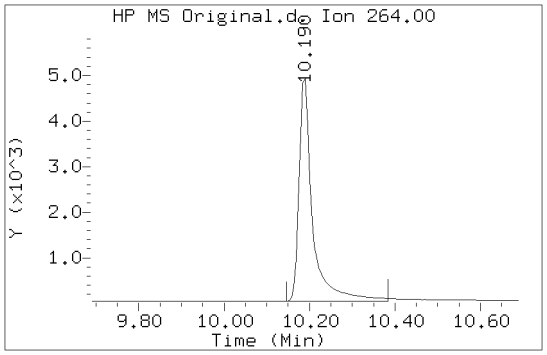
AFTER
MASS
236
AREA
2416
HEIGHT
1557
28-May-2024
13:05



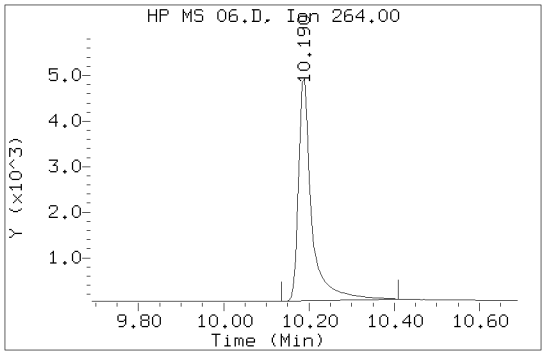
Perylene-d12 (1520-96-3)

Reason Code:

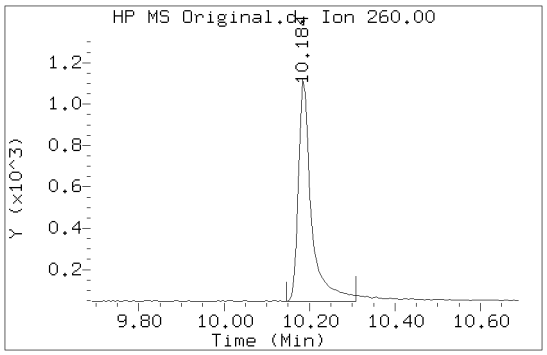
BEFORE
MASS
264
AREA
10683
HEIGHT
4875
18-Apr-2024
13:40
ALSHS
Server



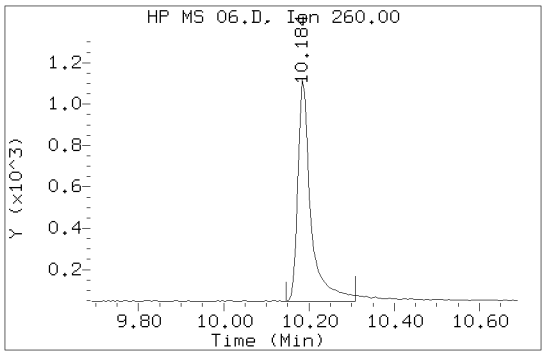
AFTER
MASS
264
AREA
10408
HEIGHT
4868
28-May-2024
13:05



BEFORE
MASS
260
AREA
2254
HEIGHT
1070
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
260
AREA
2254
HEIGHT
1070
28-May-2024
13:05



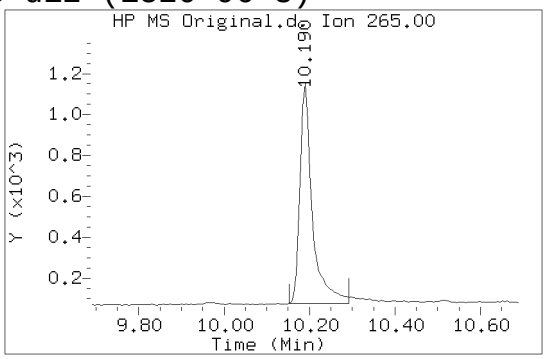
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Perylene-d12 (1520-96-3)

Reason Code:

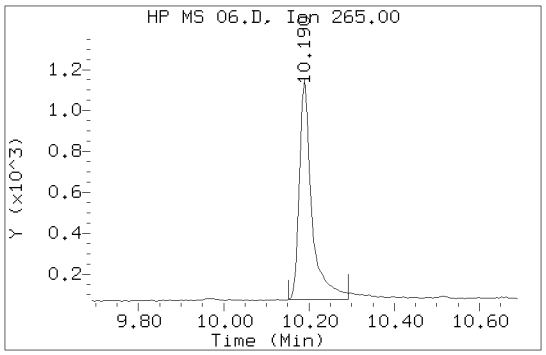
BEFORE

MASS
265
AREA
2161
HEIGHT
1074
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
265
AREA
2161
HEIGHT
1074
28-May-2024
13:05

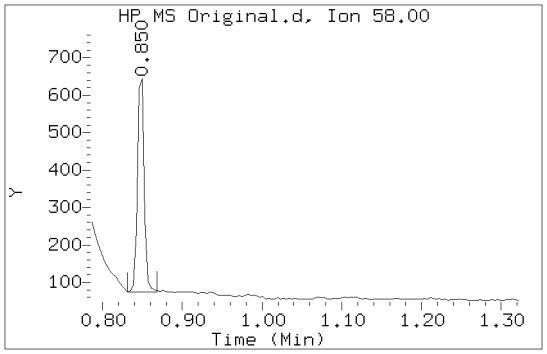


1,4-Dioxane ()

Reason Code:

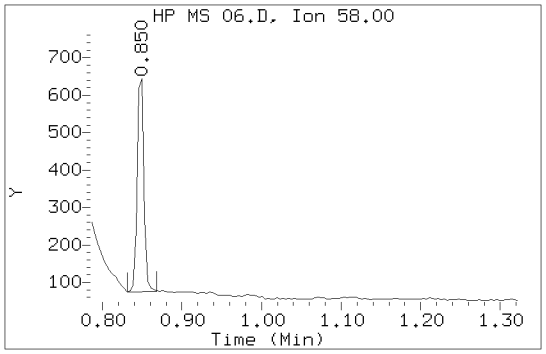
BEFORE

MASS
58
AREA
339
HEIGHT
569
18-Apr-2024
13:40
ALSHS
Server



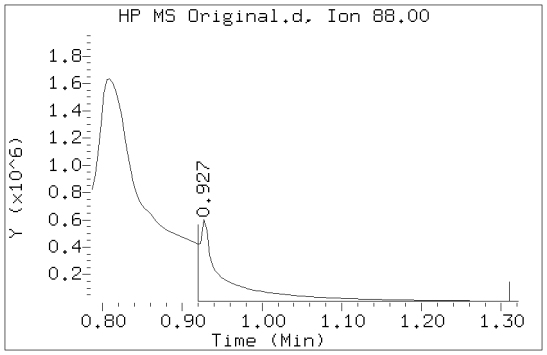
AFTER

MASS
58
AREA
339
HEIGHT
568
28-May-2024
13:05



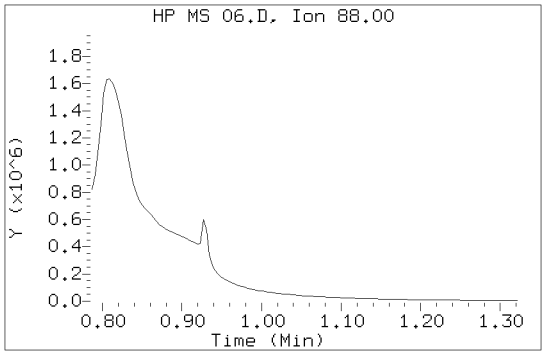
BEFORE

MASS
88
AREA
1337438
HEIGHT
596391
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

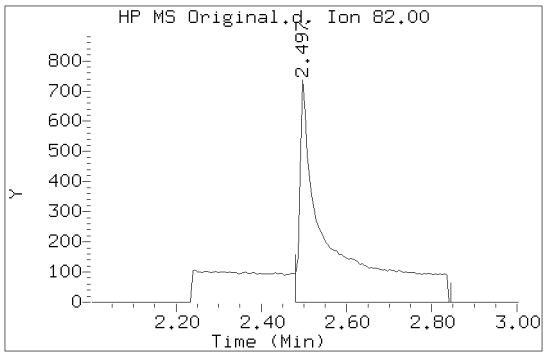


Nitrobenzene-d5 (4165-60-0)

Reason Code:

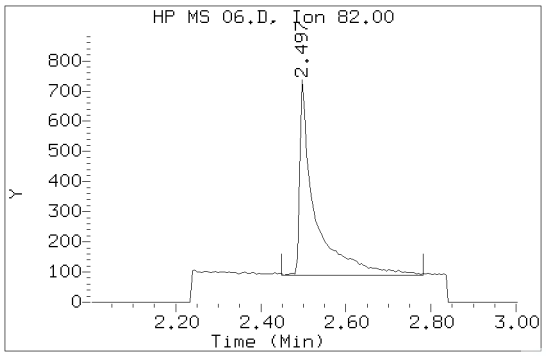
BEFORE

MASS
82
AREA
3516
HEIGHT
737
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
82
AREA
1589
HEIGHT
647
28-May-2024
13:05



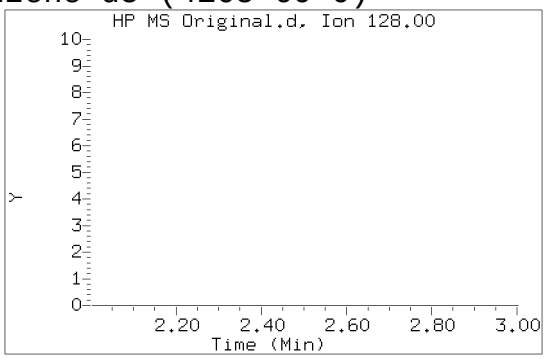
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Nitrobenzene-d5 (4165-60-0)

Reason Code:

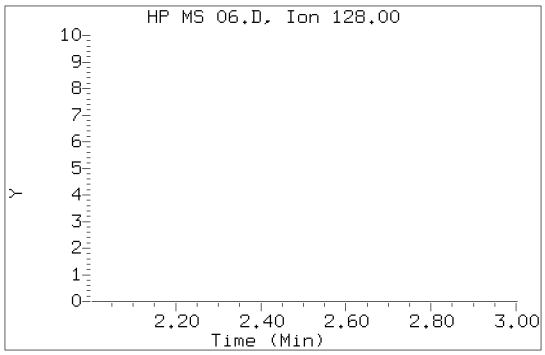
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



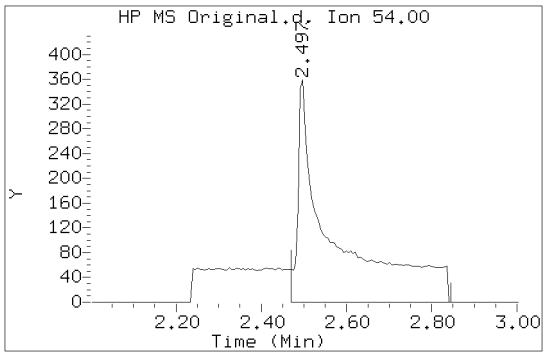
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



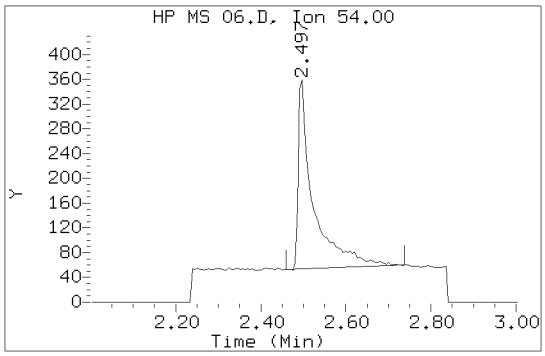
BEFORE

MASS
54
AREA
1999
HEIGHT
359
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
54
AREA
745
HEIGHT
305
28-May-2024
13:05

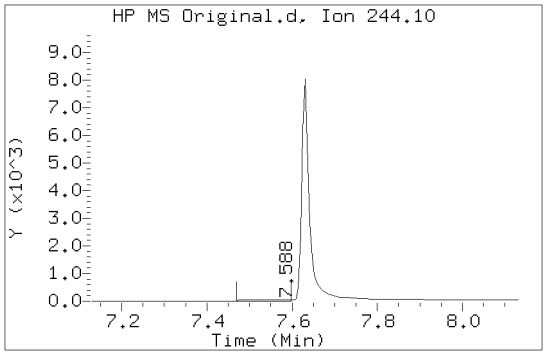


4-Terphenyl-d14 (1718-51-0)

Reason Code:

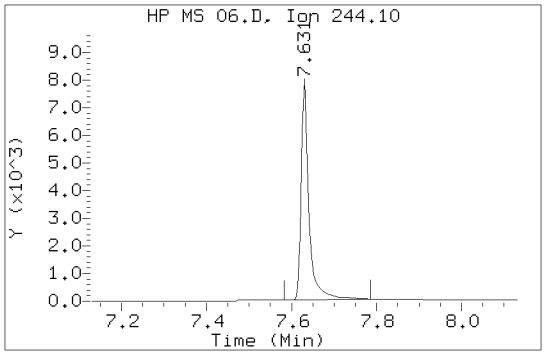
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
13:40
ALSHS
Server



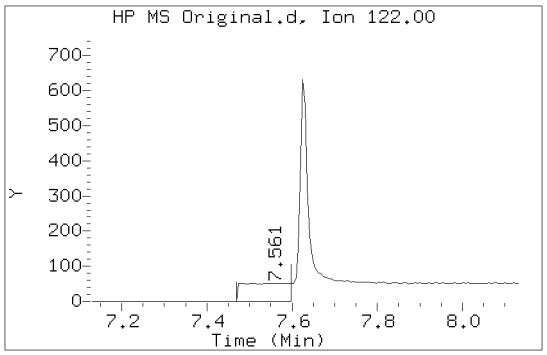
AFTER

MASS
244.1
AREA
10047
HEIGHT
7987
28-May-2024
13:05



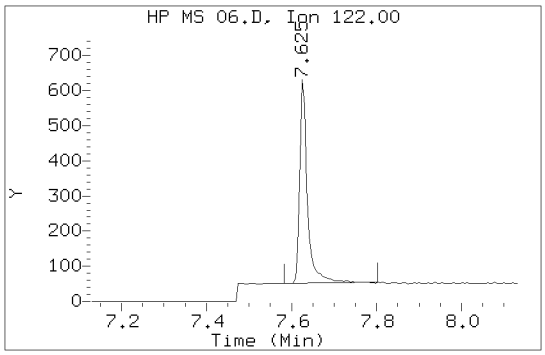
BEFORE

MASS
122
AREA
394
HEIGHT
52
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
122
AREA
741
HEIGHT
579
28-May-2024
13:05



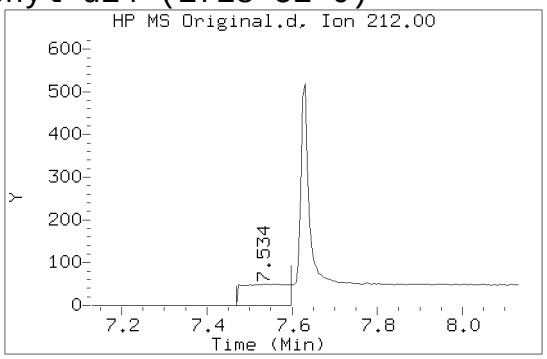
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

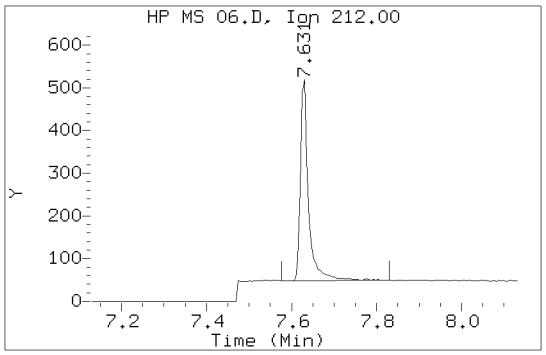
BEFORE

MASS
212
AREA
372
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
212
AREA
623
HEIGHT
470
28-May-2024
13:05

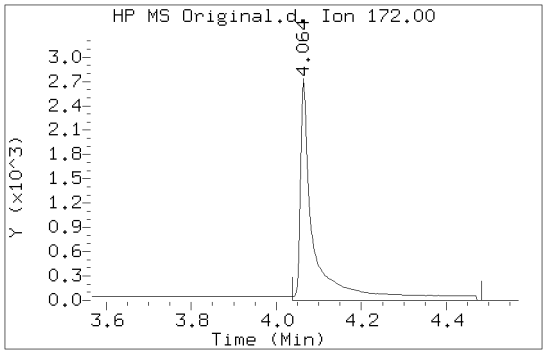


2-Fluorobiphenyl (321-60-8)

Reason Code:

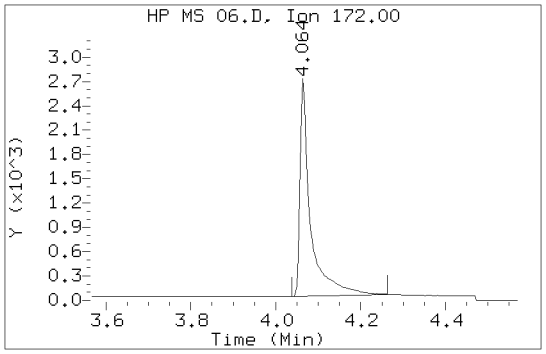
BEFORE

MASS
172
AREA
6214
HEIGHT
2735
18-Apr-2024
13:40
ALSHS
Server



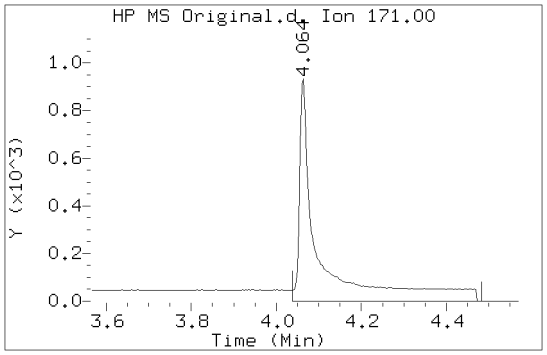
AFTER

MASS
172
AREA
4588
HEIGHT
2684
28-May-2024
13:05



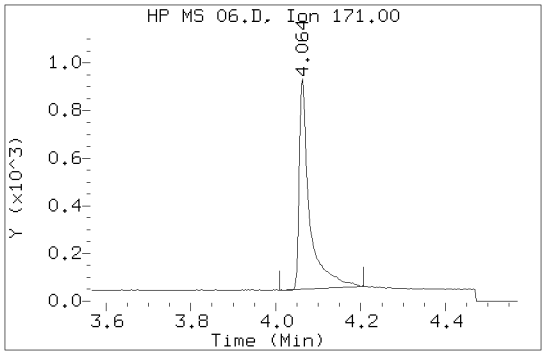
BEFORE

MASS
171
AREA
2920
HEIGHT
933
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
171
AREA
1481
HEIGHT
881
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Lab Smp Id: 14DX-0.10
Inj Date : 18-APR-2024 13:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:42 Cal File: 07.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2318	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7718	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	2452	0.10000	0.1058(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	4530	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	7366	0.10000	0.1064(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	8772	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	7453	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	15672	0.10000	0.1032(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	7806	0.10000	
1 1,4-Dioxane	58	0.827	0.820	(0.396)	473	0.10000	0.09527(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D

Date : 18-APR-2024 13:42

Client ID:

Instrument: SV6.i

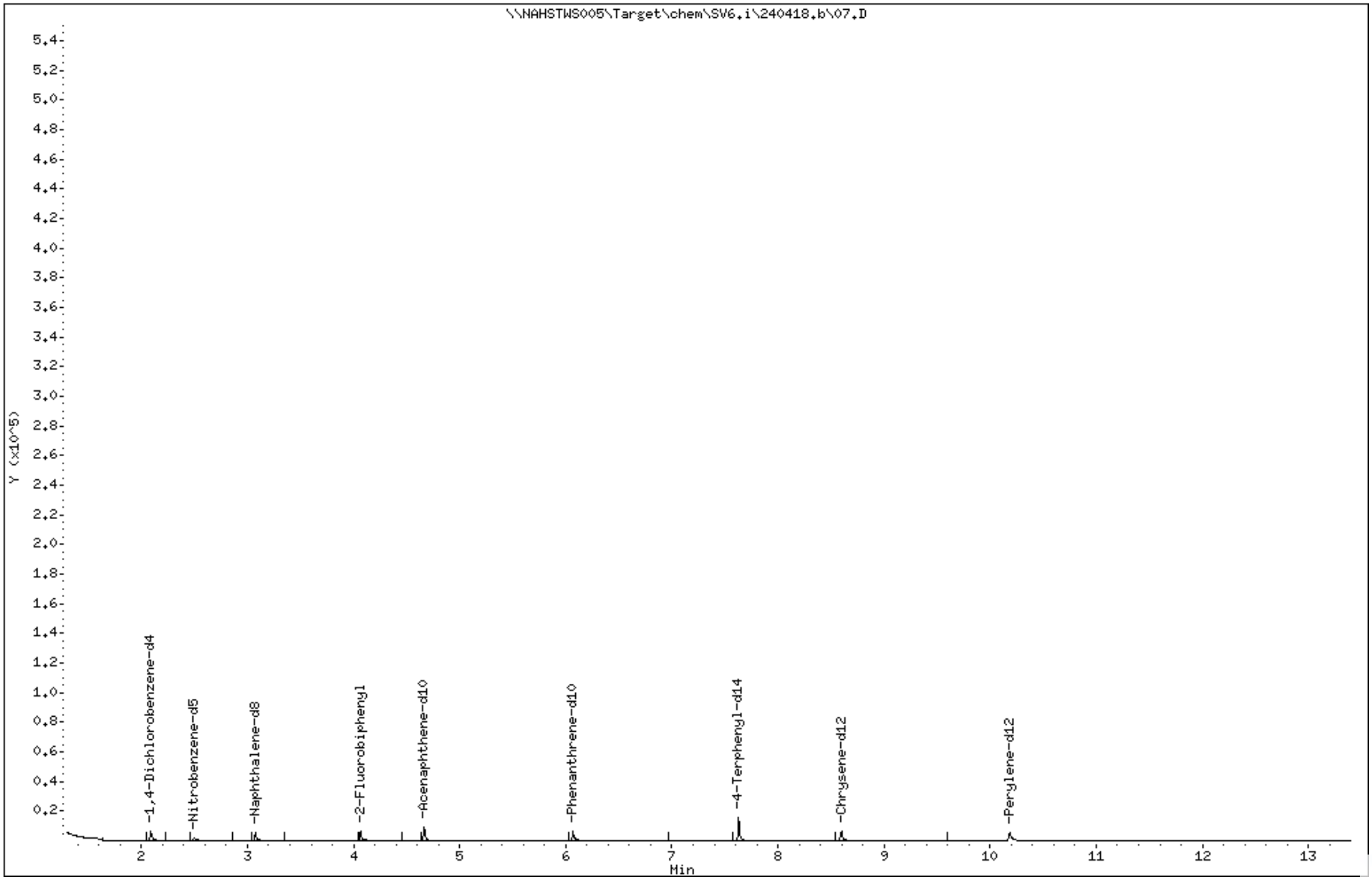
Sample Info: 14DX-0.10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

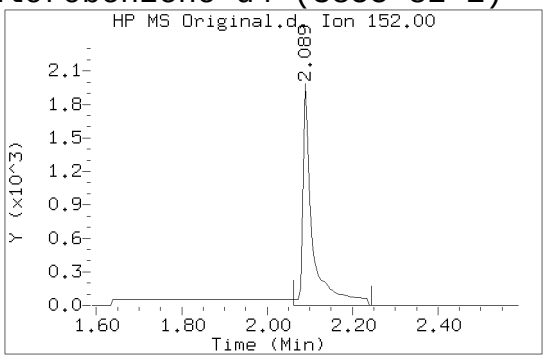


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

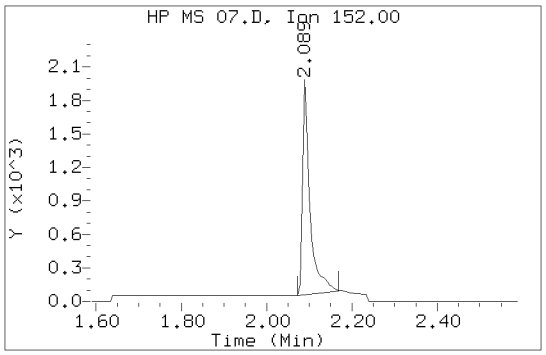
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

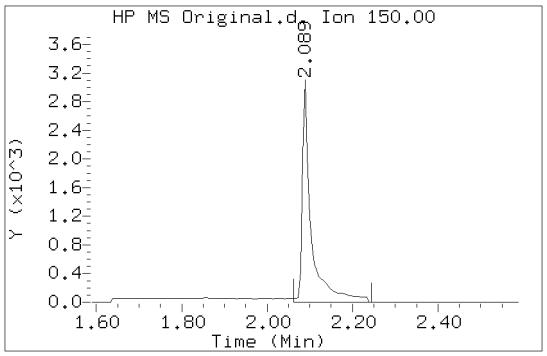
BEFORE
MASS
152
AREA
3091
HEIGHT
1986
18-Apr-2024
13:57
ALSHS
Server



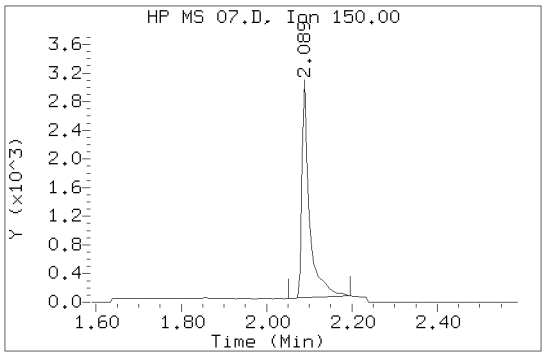
AFTER
MASS
152
AREA
2318
HEIGHT
1925
23-May-2024
08:54



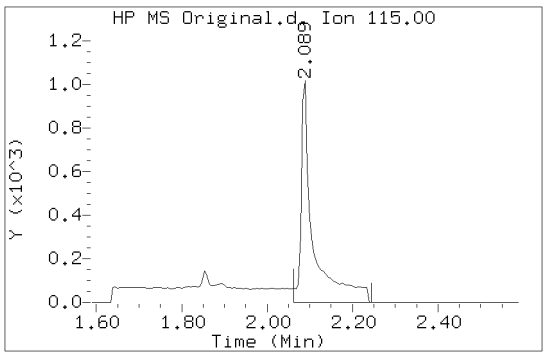
BEFORE
MASS
150
AREA
4519
HEIGHT
3105
18-Apr-2024
13:57
ALSHS
Server



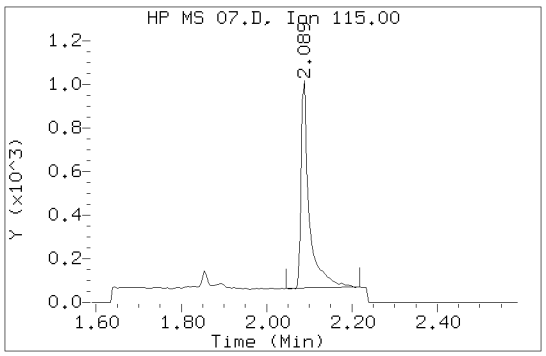
AFTER
MASS
150
AREA
3766
HEIGHT
3045
23-May-2024
08:54



BEFORE
MASS
115
AREA
1993
HEIGHT
1016
18-Apr-2024
13:57
ALSHS
Server



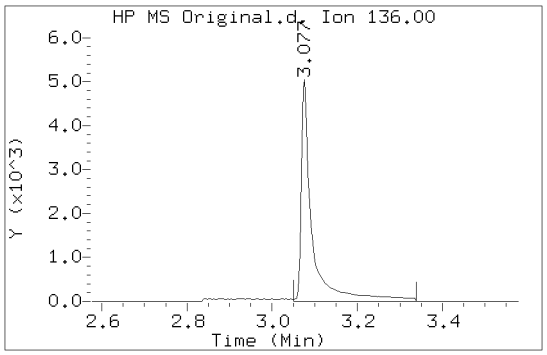
AFTER
MASS
115
AREA
1271
HEIGHT
950
23-May-2024
08:54



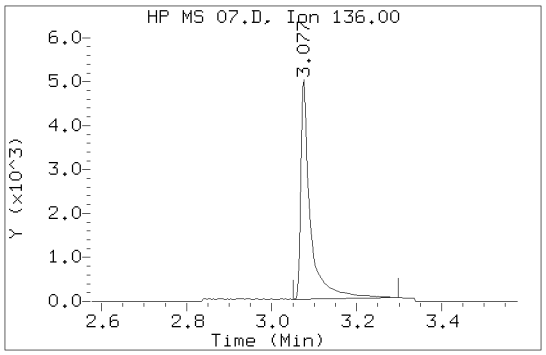
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8891
HEIGHT
5045
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
136
AREA
7718
HEIGHT
4990
23-May-2024
08:54



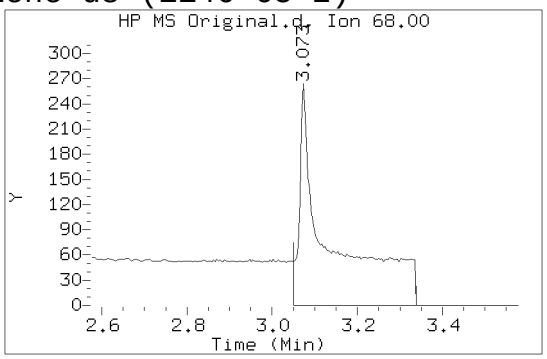
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Naphthalene-d8 (1146-65-2)

Reason Code:

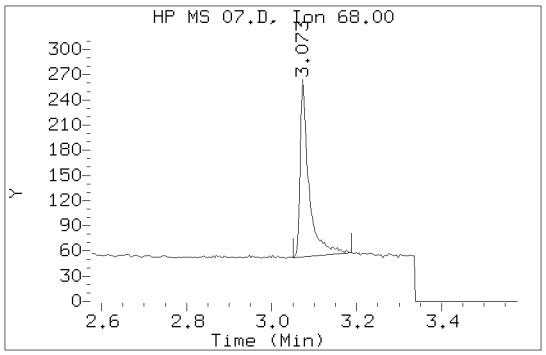
BEFORE

MASS
68
AREA
1251
HEIGHT
264
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
68
AREA
296
HEIGHT
211
23-May-2024
08:54

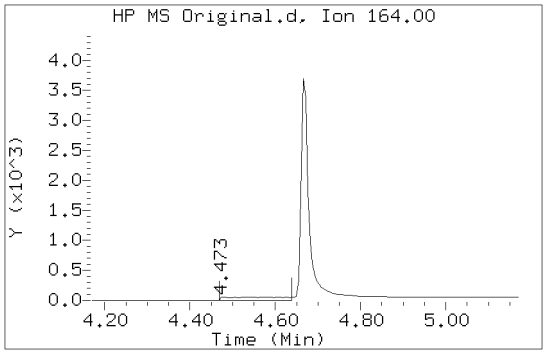


Acenaphthene-d10 (15067-26-2)

Reason Code:

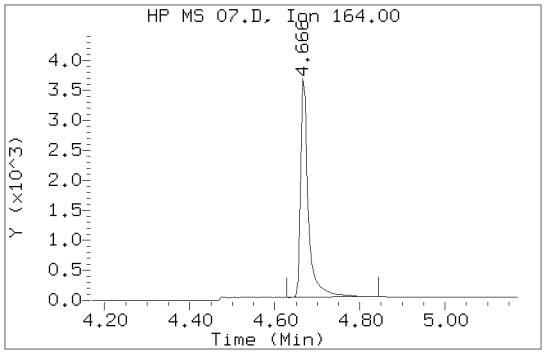
BEFORE

MASS
164
AREA
497
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



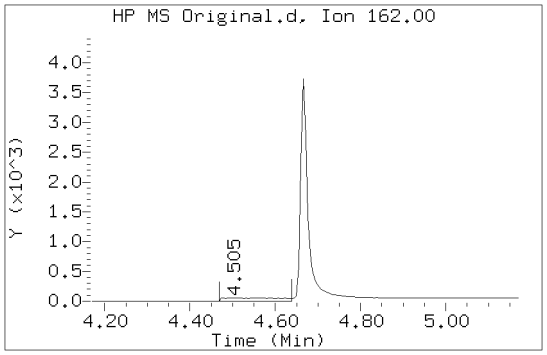
AFTER

MASS
164
AREA
4530
HEIGHT
3643
23-May-2024
08:54



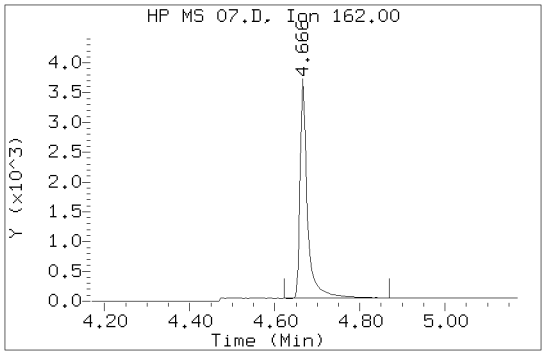
BEFORE

MASS
162
AREA
500
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



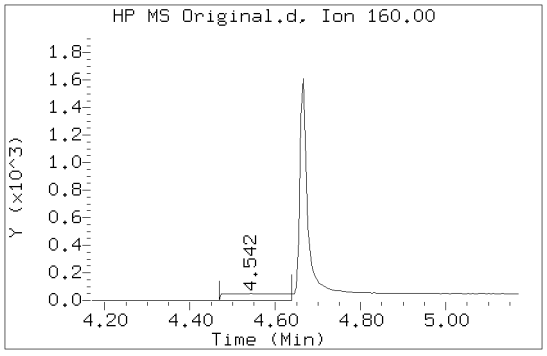
AFTER

MASS
162
AREA
4355
HEIGHT
3679
23-May-2024
08:54



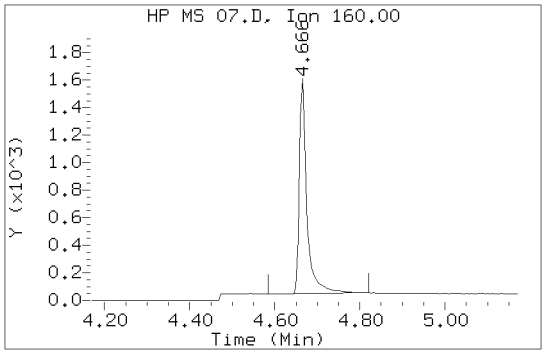
BEFORE

MASS
160
AREA
483
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
160
AREA
1883
HEIGHT
1560
23-May-2024
08:54



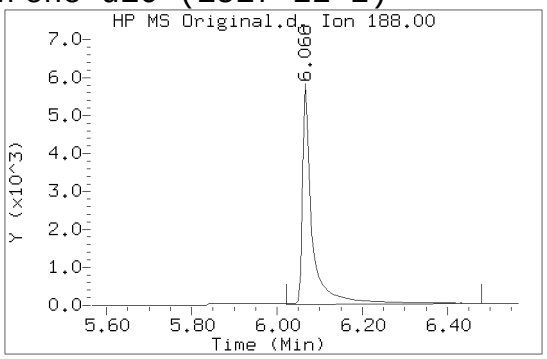
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Phenanthrene-d10 (1517-22-2)

Reason Code:

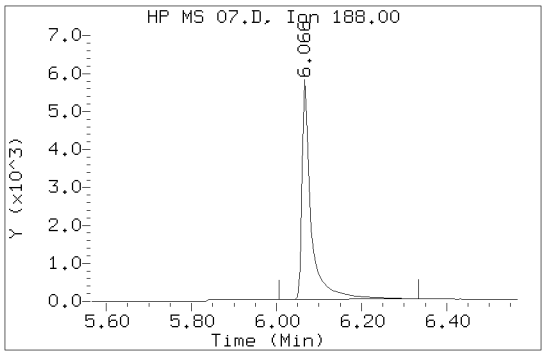
BEFORE

MASS
188
AREA
9529
HEIGHT
5821
18-Apr-2024
13:57
ALSHS
Server



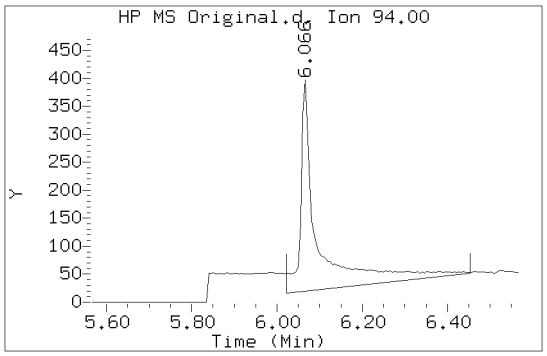
AFTER

MASS
188
AREA
8772
HEIGHT
5788
23-May-2024
08:54



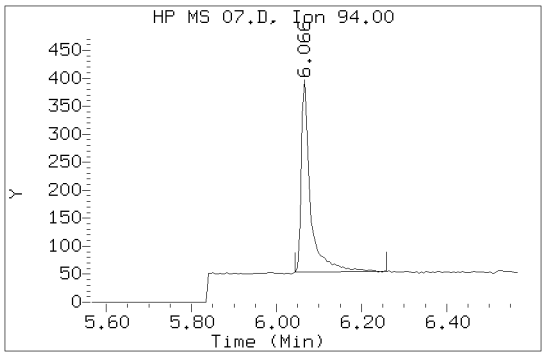
BEFORE

MASS
94
AREA
1042
HEIGHT
377
18-Apr-2024
13:57
ALSHS
Server



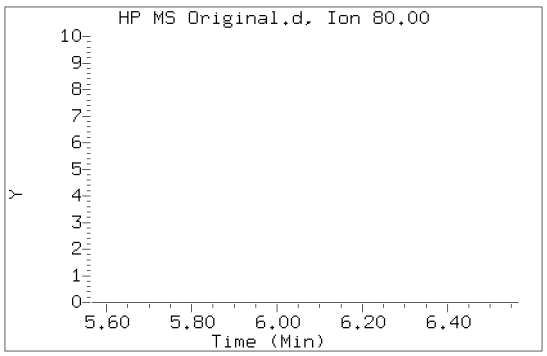
AFTER

MASS
94
AREA
518
HEIGHT
342
23-May-2024
08:54



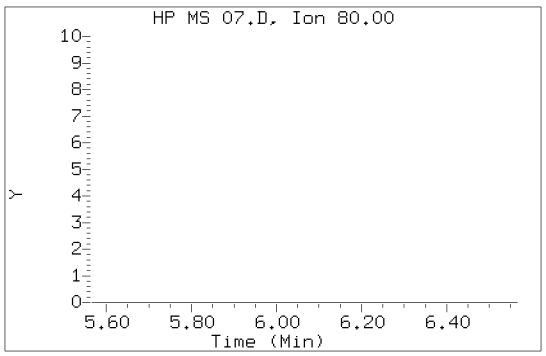
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

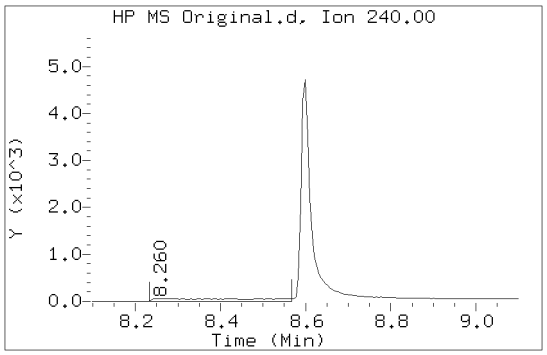


Chrysene-d12 (1719-03-5)

Reason Code:

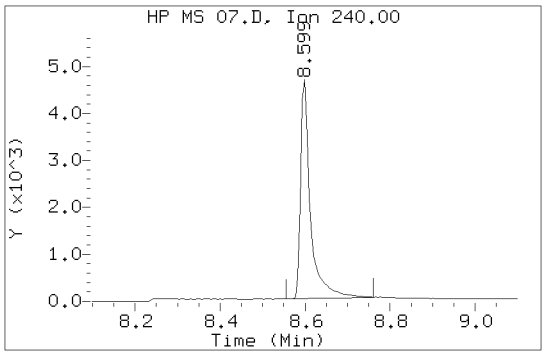
BEFORE

MASS
240
AREA
957
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
240
AREA
7453
HEIGHT
4662
23-May-2024
08:54

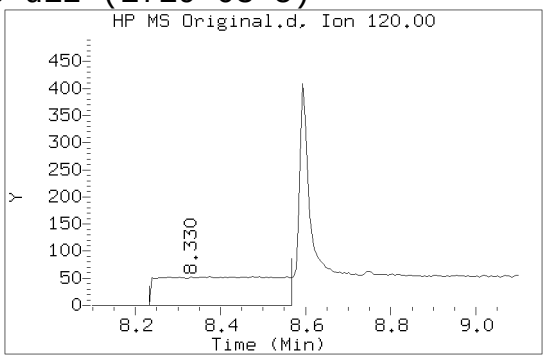


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Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

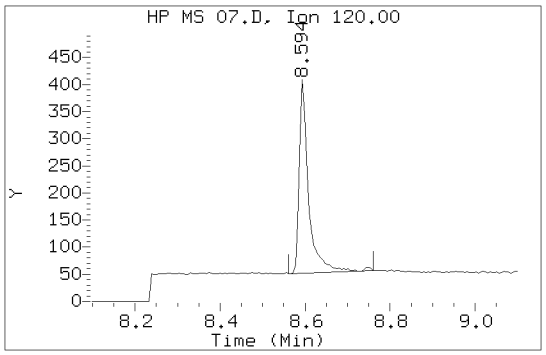
Chrysene-d12 (1719-03-5)

Reason Code:

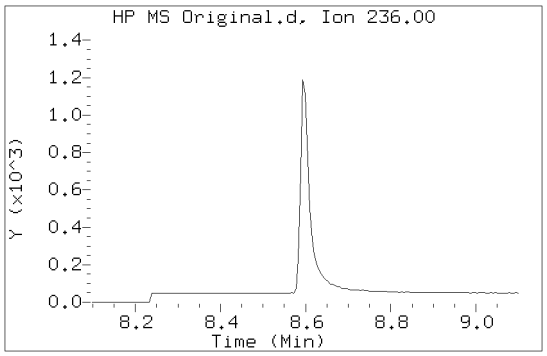
BEFORE
MASS
120
AREA
1029
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



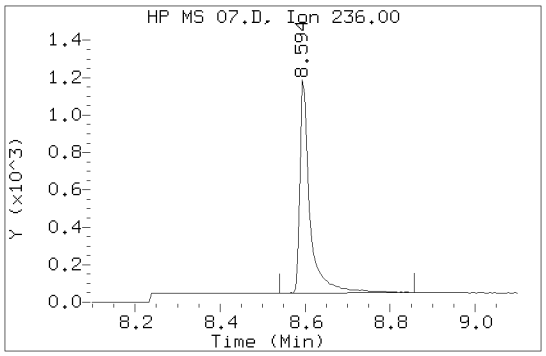
AFTER
MASS
120
AREA
541
HEIGHT
357
23-May-2024
08:54



BEFORE
MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



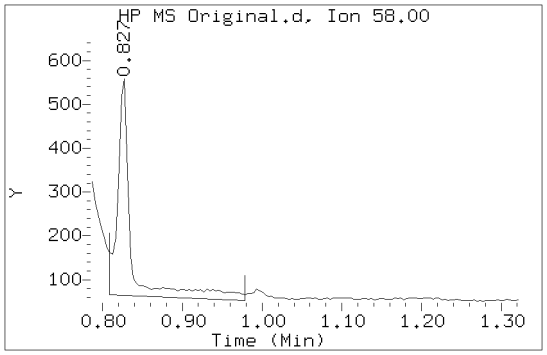
AFTER
MASS
236
AREA
1875
HEIGHT
1139
23-May-2024
08:54



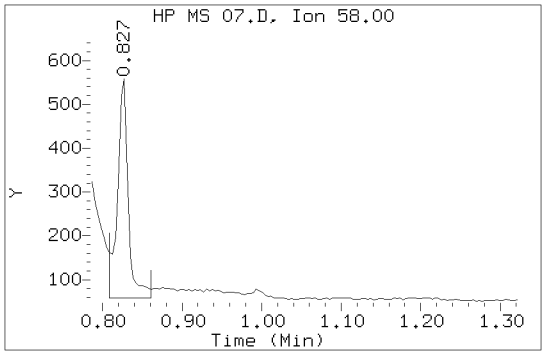
1,4-Dioxane ()

Reason Code:

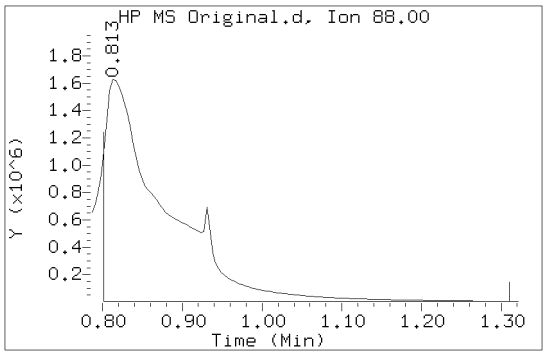
BEFORE
MASS
58
AREA
589
HEIGHT
493
18-Apr-2024
13:57
ALSHS
Server



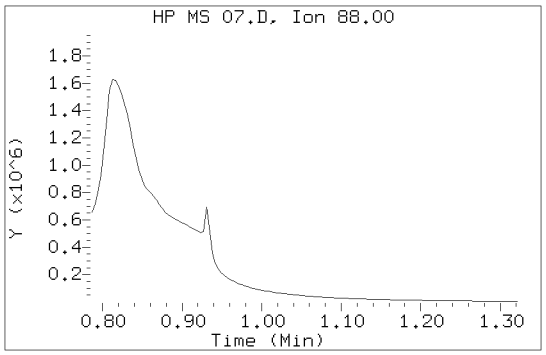
AFTER
MASS
58
AREA
473
HEIGHT
499
23-May-2024
08:54



BEFORE
MASS
88
AREA
8266937
HEIGHT
1620371
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
88
AREA
8281553
HEIGHT
1620838
23-May-2024
08:54

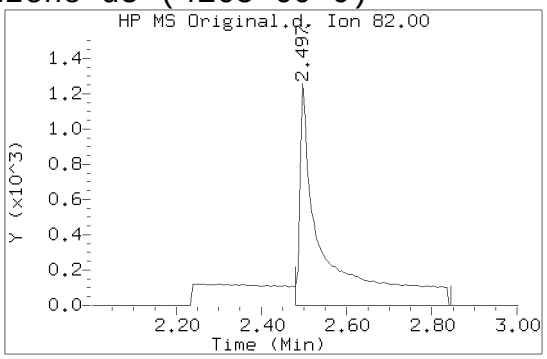


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Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

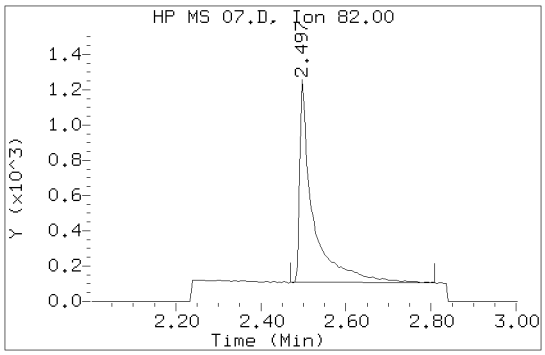
Nitrobenzene-d5 (4165-60-0)

Reason Code:

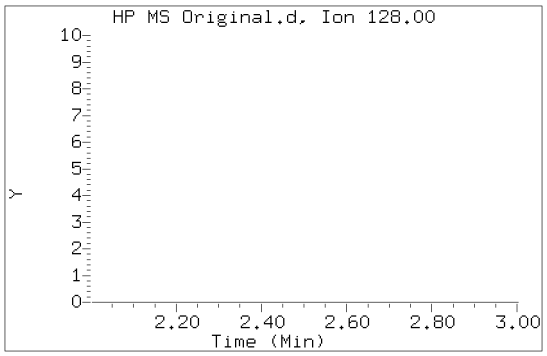
BEFORE
MASS
82
AREA
4733
HEIGHT
1257
18-Apr-2024
13:57
ALSHS
Server



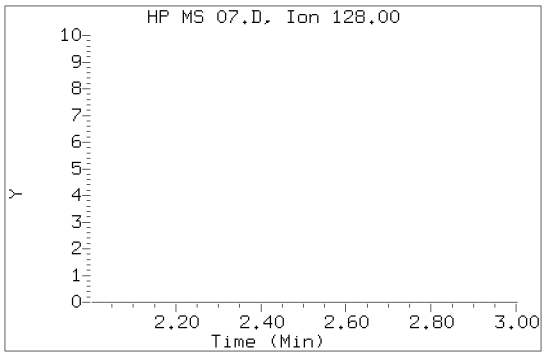
AFTER
MASS
82
AREA
2452
HEIGHT
1148
23-May-2024
08:54



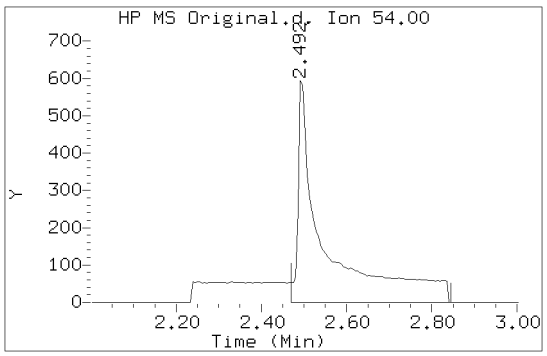
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



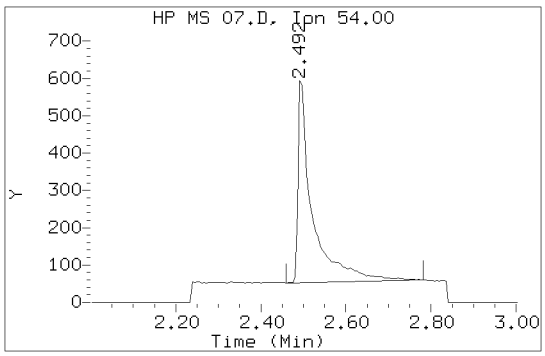
AFTER
MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



BEFORE
MASS
54
AREA
2506
HEIGHT
594
18-Apr-2024
13:57
ALSHS
Server



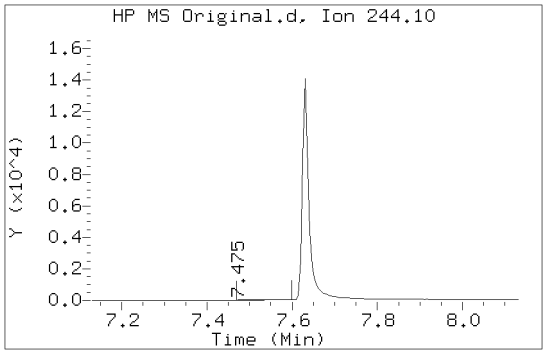
AFTER
MASS
54
AREA
1263
HEIGHT
541
23-May-2024
08:54



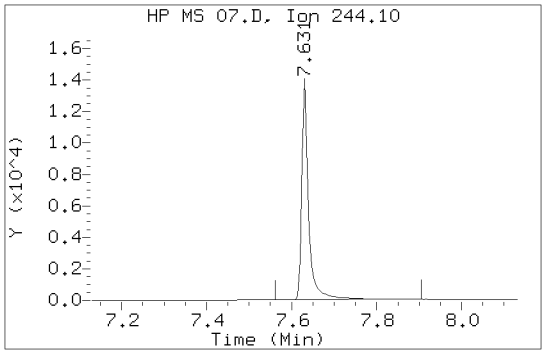
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
172
HEIGHT
45
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
244.1
AREA
15672
HEIGHT
14035
23-May-2024
08:54



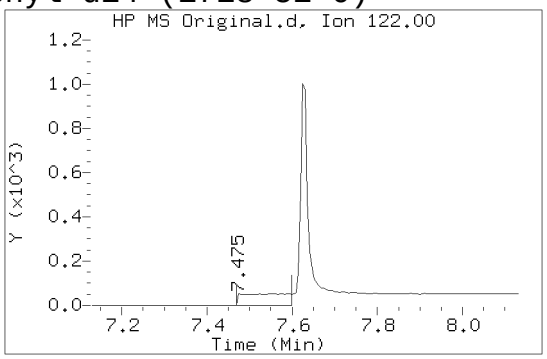
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

4-Terphenyl-d14 (1718-51-0)

Reason Code:

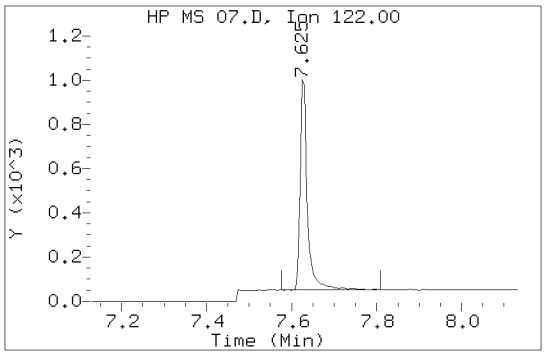
BEFORE

MASS
122
AREA
389
HEIGHT
51
18-Apr-2024
13:57
ALSHS
Server



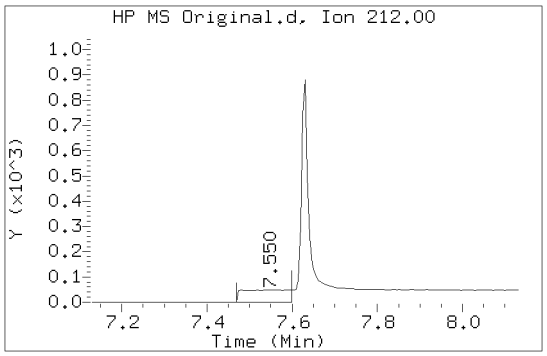
AFTER

MASS
122
AREA
1143
HEIGHT
950
23-May-2024
08:54



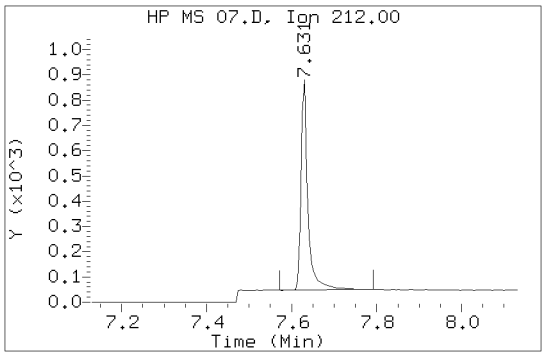
BEFORE

MASS
212
AREA
368
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
212
AREA
942
HEIGHT
831
23-May-2024
08:54

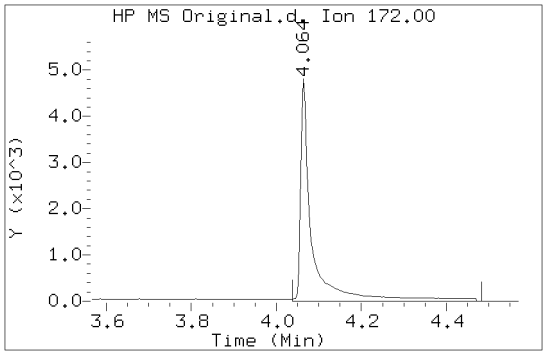


2-Fluorobiphenyl (321-60-8)

Reason Code:

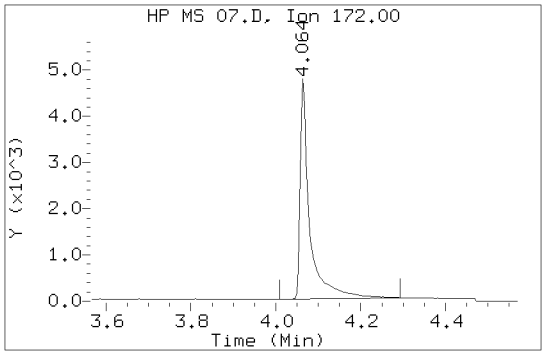
BEFORE

MASS
172
AREA
9042
HEIGHT
4809
18-Apr-2024
13:57
ALSHS
Server



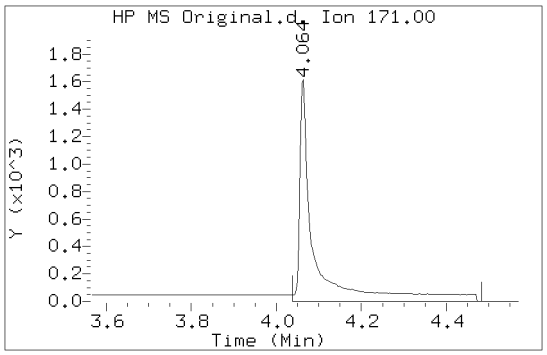
AFTER

MASS
172
AREA
7366
HEIGHT
4757
23-May-2024
08:54



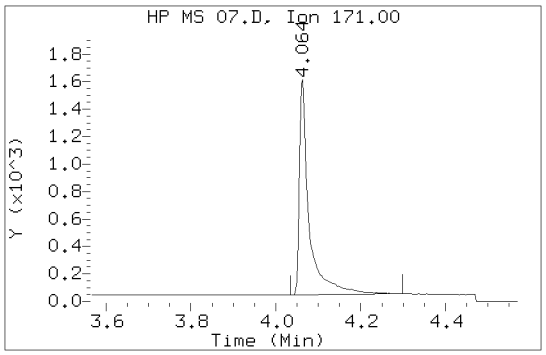
BEFORE

MASS
171
AREA
3879
HEIGHT
1615
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
171
AREA
2501
HEIGHT
1566
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
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Inj Date : 18-APR-2024 14:00
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:00 Cal File: 08.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3084	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9604	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	4499	0.15000	0.1560(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5448	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	13067	0.15000	0.1569(AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	10645	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	8954	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	27519	0.15000	0.1509(AM)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	9228	0.10000	
1 1,4-Dioxane	58	0.842	0.820	(0.402)	984	0.15000	0.1490(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D

Date : 18-APR-2024 14:00

Client ID:

Instrument: SV6.i

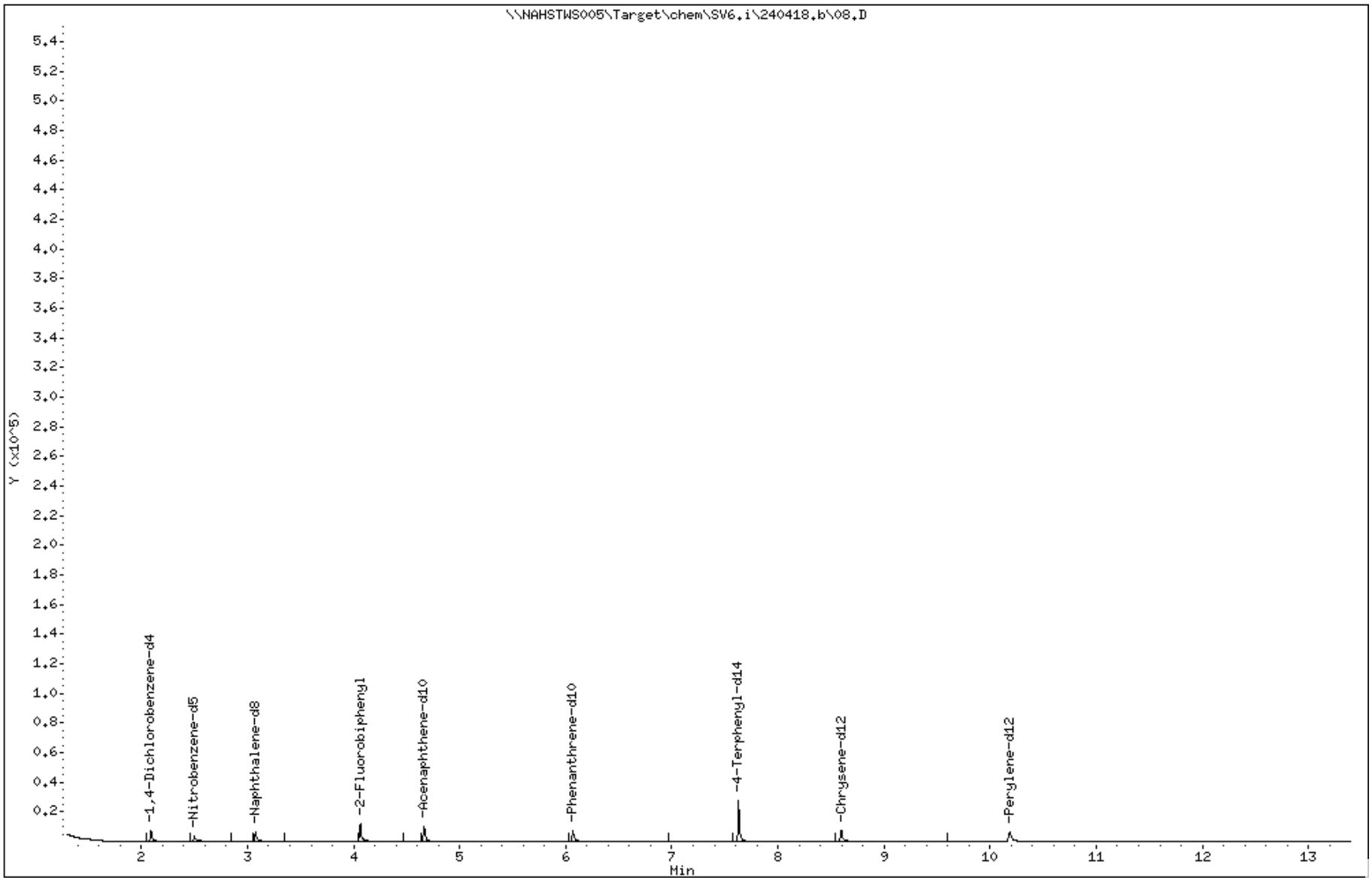
Sample Info: 14DX-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

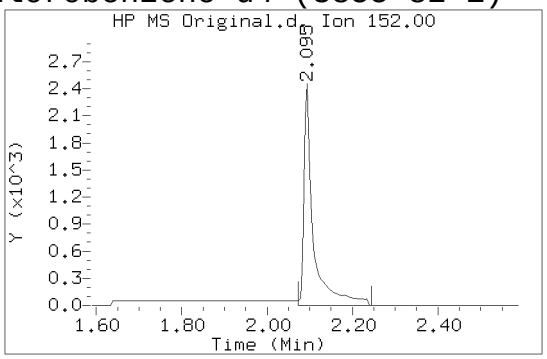


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

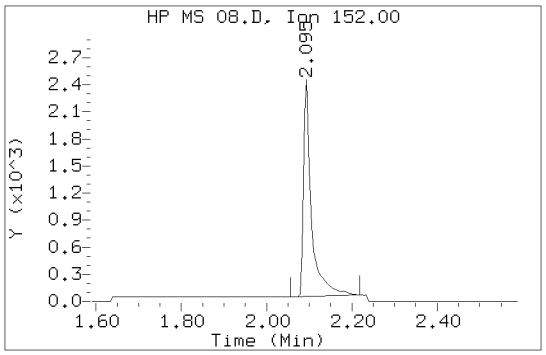
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

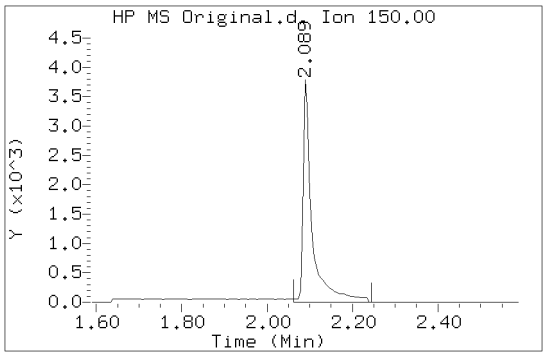
BEFORE
MASS
152
AREA
3705
HEIGHT
2456
18-Apr-2024
14:16
ALSHS
Server



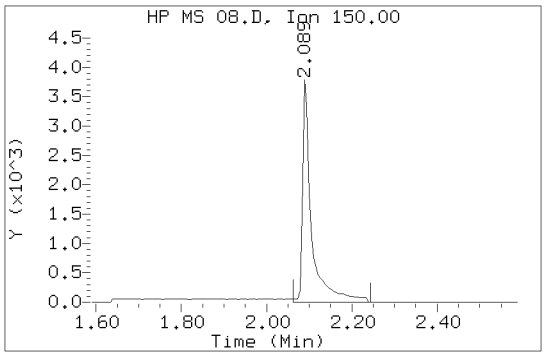
AFTER
MASS
152
AREA
3084
HEIGHT
2400
28-May-2024
13:05



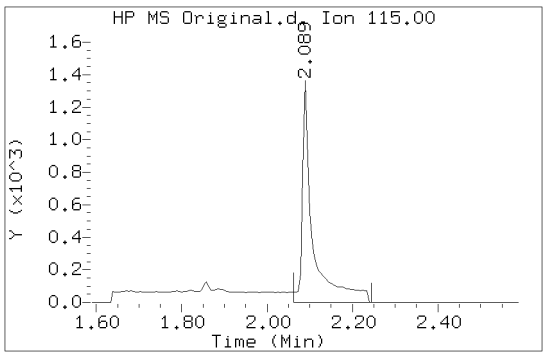
BEFORE
MASS
150
AREA
5535
HEIGHT
3786
18-Apr-2024
14:16
ALSHS
Server



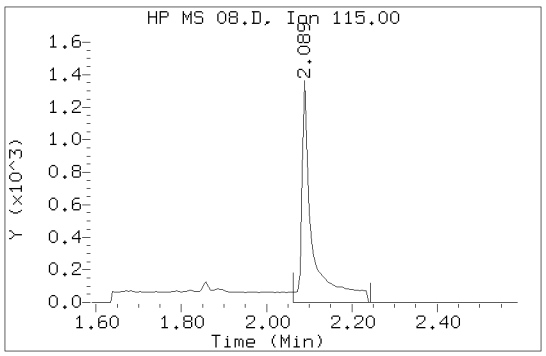
AFTER
MASS
150
AREA
5535
HEIGHT
3786
28-May-2024
13:05



BEFORE
MASS
115
AREA
2326
HEIGHT
1363
18-Apr-2024
14:16
ALSHS
Server



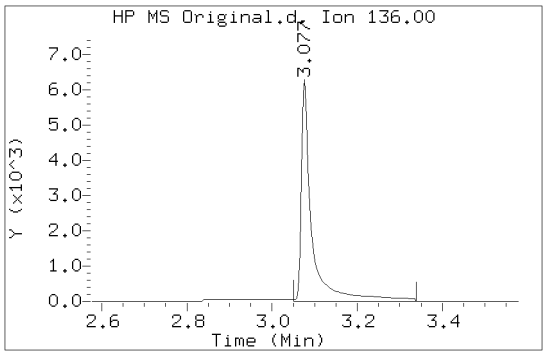
AFTER
MASS
115
AREA
2326
HEIGHT
1363
28-May-2024
13:05



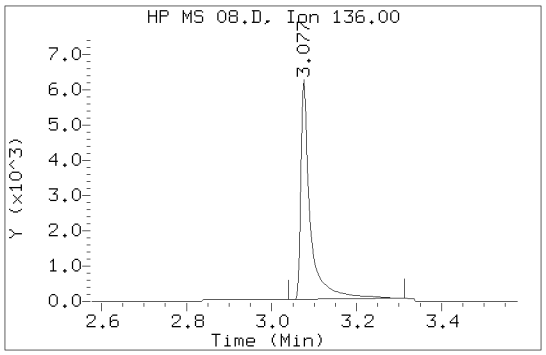
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10787
HEIGHT
6291
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
136
AREA
9604
HEIGHT
6235
28-May-2024
13:05



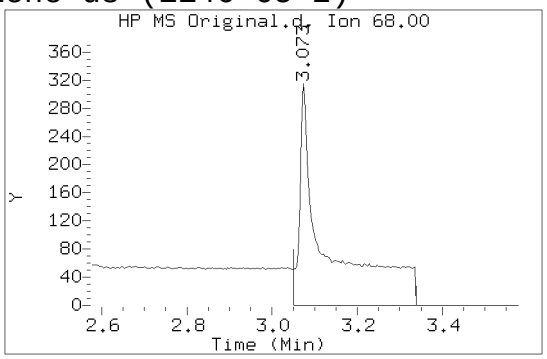
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

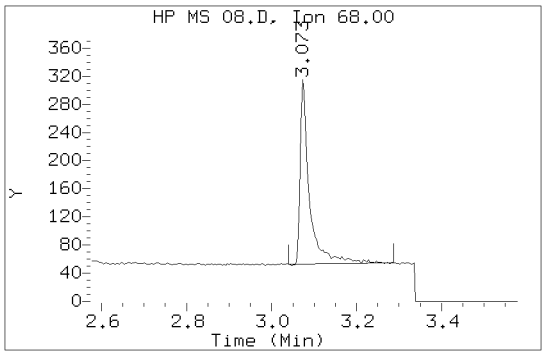
BEFORE

MASS
68
AREA
1324
HEIGHT
315
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
68
AREA
389
HEIGHT
261
28-May-2024
13:05

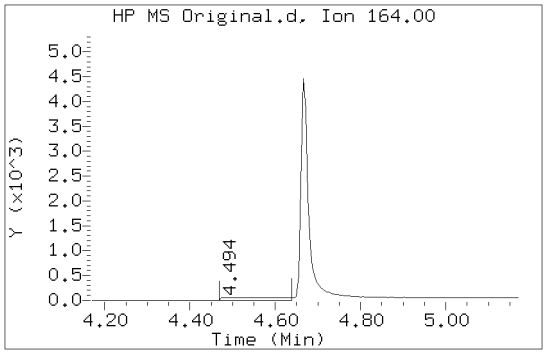


Acenaphthene-d10 (15067-26-2)

Reason Code:

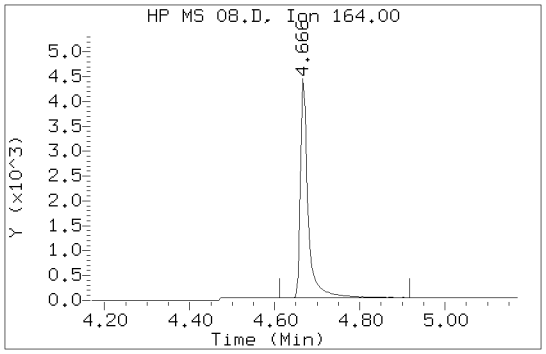
BEFORE

MASS
164
AREA
496
HEIGHT
50
18-Apr-2024
14:16
ALSHS
Server



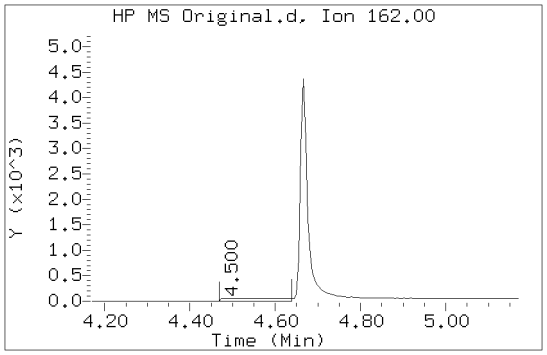
AFTER

MASS
164
AREA
5448
HEIGHT
4411
28-May-2024
13:05



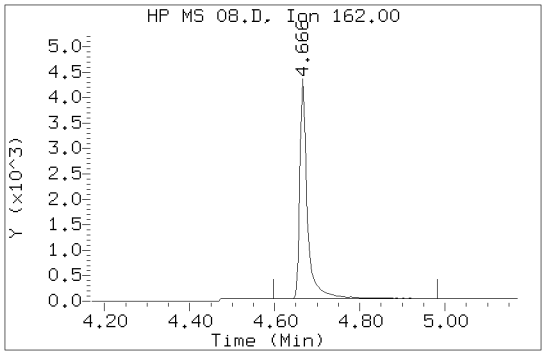
BEFORE

MASS
162
AREA
496
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



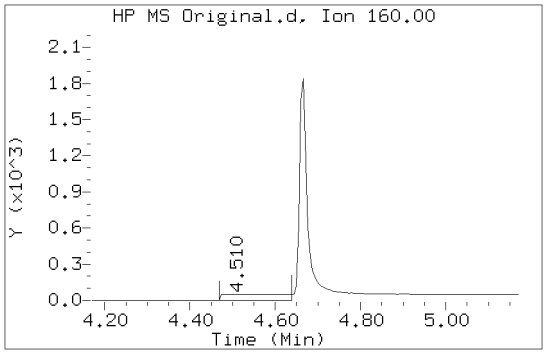
AFTER

MASS
162
AREA
5277
HEIGHT
4319
28-May-2024
13:05



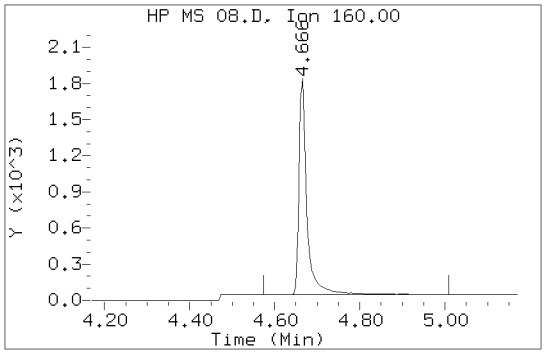
BEFORE

MASS
160
AREA
482
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
160
AREA
2305
HEIGHT
1792
28-May-2024
13:05



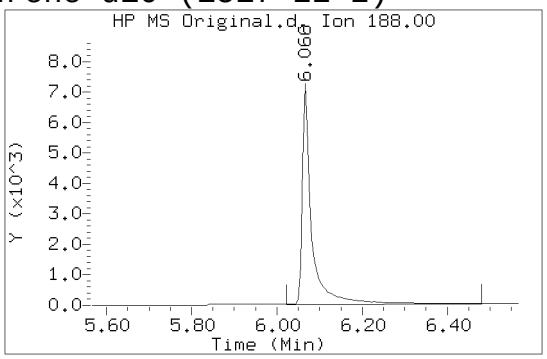
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Phenanthrene-d10 (1517-22-2)

Reason Code:

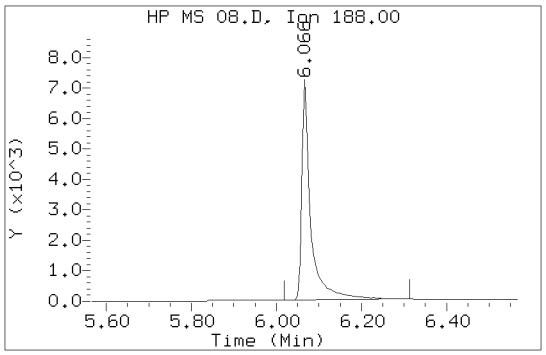
BEFORE

MASS
188
AREA
11494
HEIGHT
7257
18-Apr-2024
14:16
ALSHS
Server



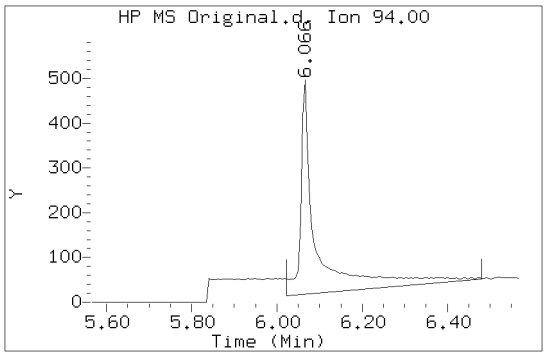
AFTER

MASS
188
AREA
10645
HEIGHT
7224
28-May-2024
13:05



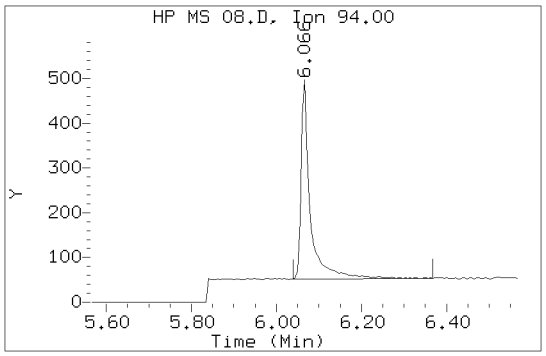
BEFORE

MASS
94
AREA
1207
HEIGHT
478
18-Apr-2024
14:16
ALSHS
Server



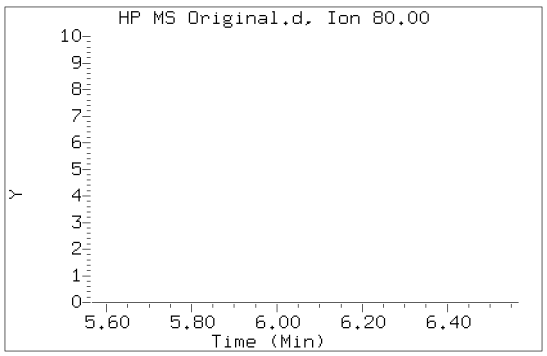
AFTER

MASS
94
AREA
674
HEIGHT
444
28-May-2024
13:05



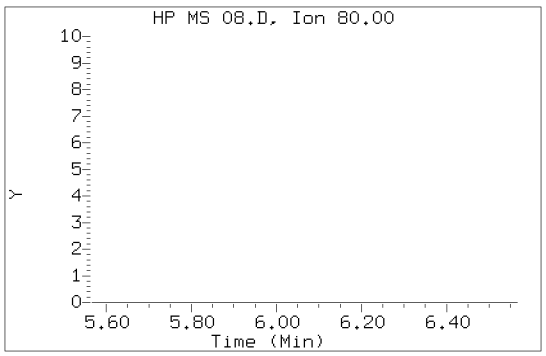
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

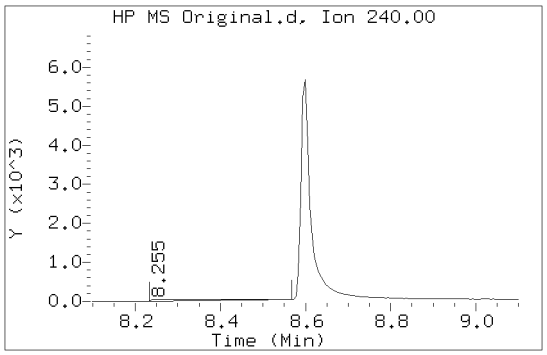


Chrysene-d12 (1719-03-5)

Reason Code:

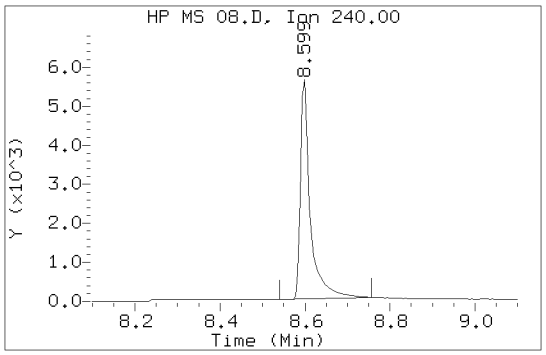
BEFORE

MASS
240
AREA
453
HEIGHT
46
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
240
AREA
8954
HEIGHT
5618
28-May-2024
13:05



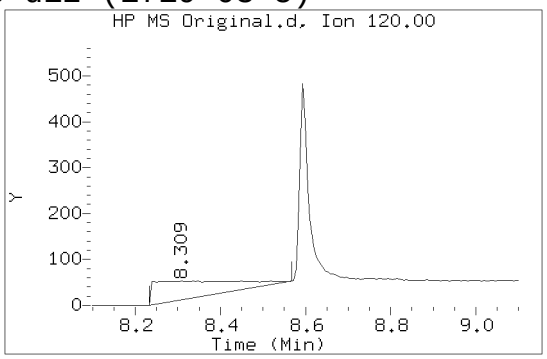
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

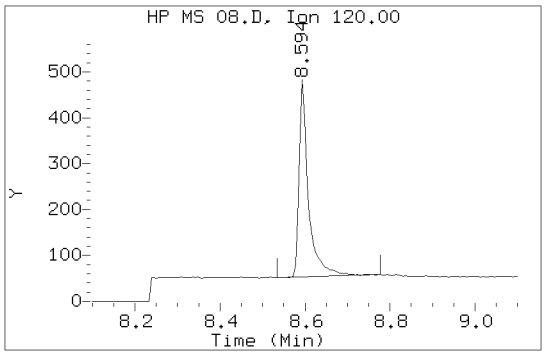
BEFORE

MASS
120
AREA
491
HEIGHT
41
18-Apr-2024
14:16
ALSHS
Server



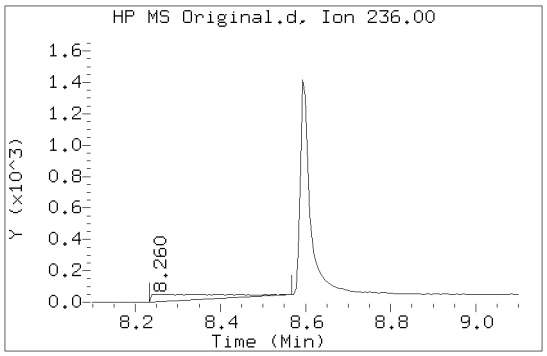
AFTER

MASS
120
AREA
640
HEIGHT
429
28-May-2024
13:05



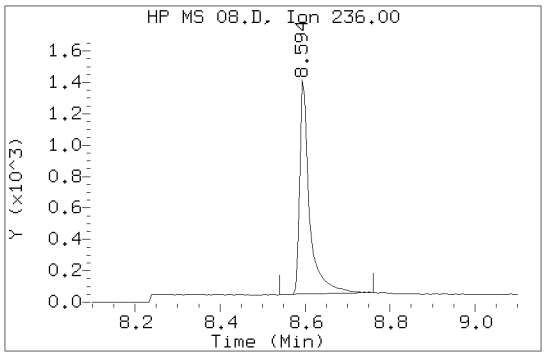
BEFORE

MASS
236
AREA
459
HEIGHT
45
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
236
AREA
2175
HEIGHT
1364
28-May-2024
13:05

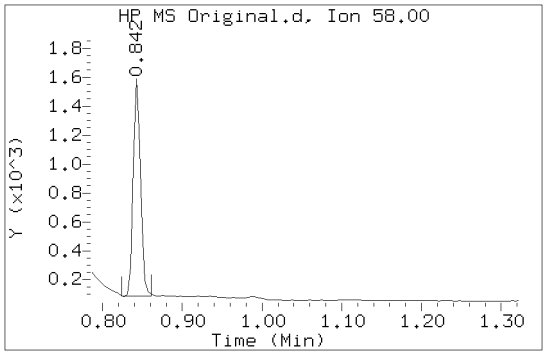


1,4-Dioxane ()

Reason Code:

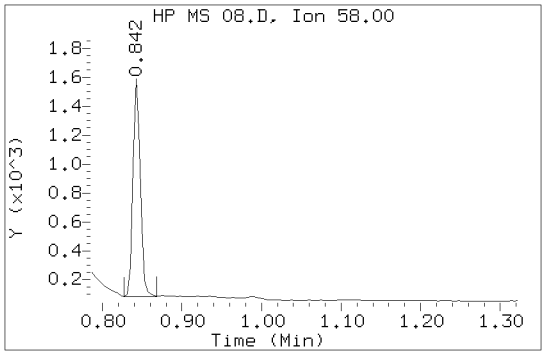
BEFORE

MASS
58
AREA
972
HEIGHT
1502
18-Apr-2024
14:16
ALSHS
Server



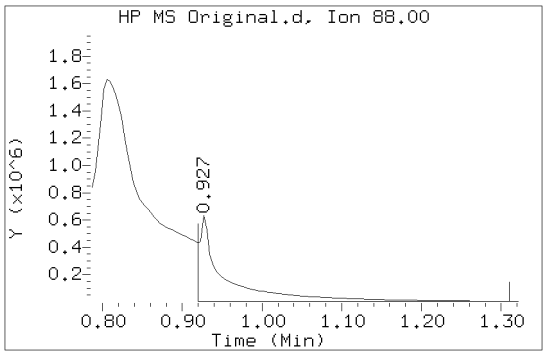
AFTER

MASS
58
AREA
984
HEIGHT
1506
28-May-2024
13:05



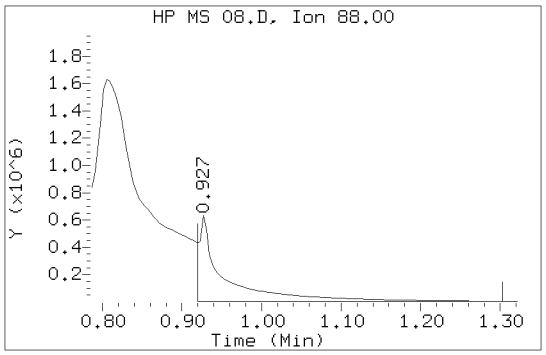
BEFORE

MASS
88
AREA
1391687
HEIGHT
630804
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
88
AREA
1385982
HEIGHT
630559
28-May-2024
13:05



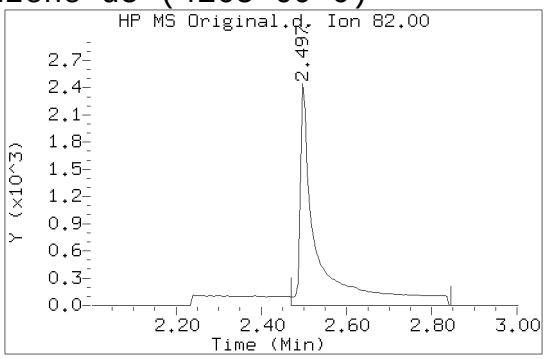
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Nitrobenzene-d5 (4165-60-0)

Reason Code:

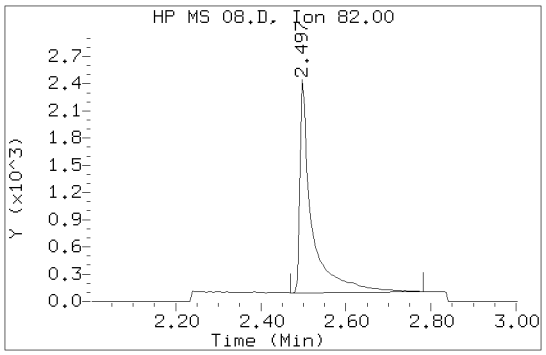
BEFORE

MASS
82
AREA
6726
HEIGHT
2444
18-Apr-2024
14:16
ALSHS
Server



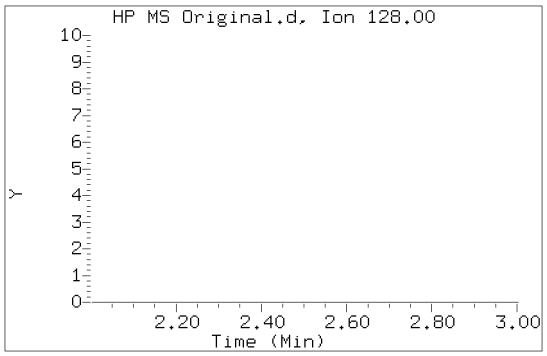
AFTER

MASS
82
AREA
4499
HEIGHT
2348
28-May-2024
13:05



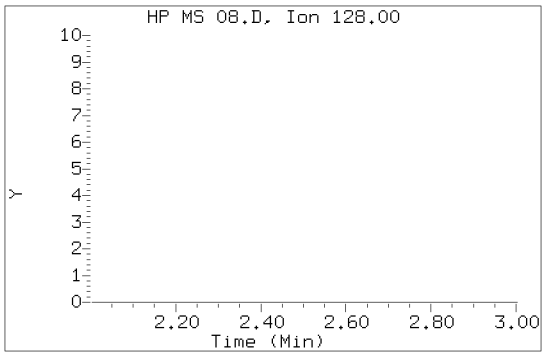
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



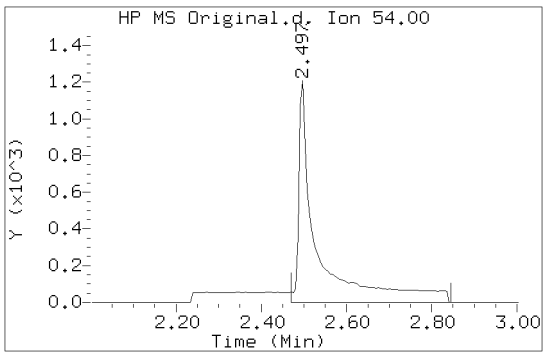
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



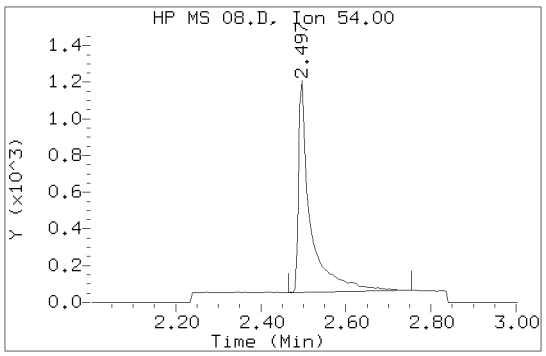
BEFORE

MASS
54
AREA
3552
HEIGHT
1208
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
54
AREA
2217
HEIGHT
1153
28-May-2024
13:05

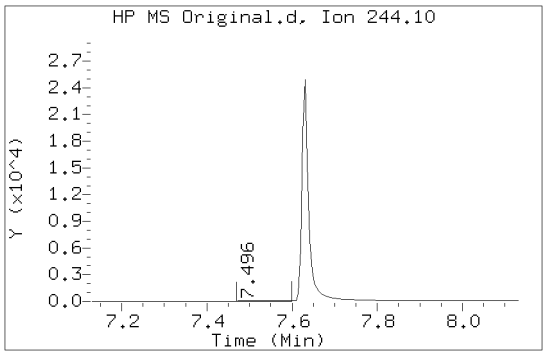


4-Terphenyl-d14 (1718-51-0)

Reason Code:

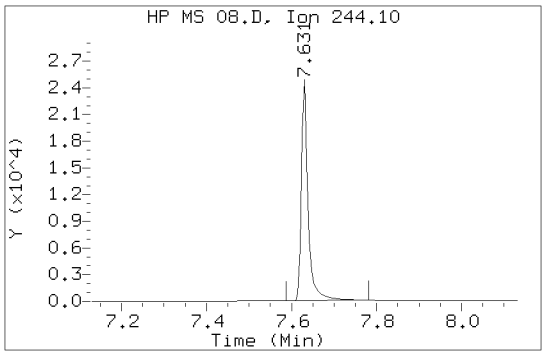
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
244.1
AREA
27519
HEIGHT
24848
28-May-2024
13:05



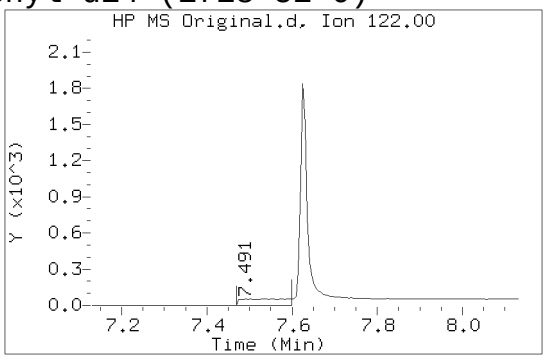
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

4-Terphenyl-d14 (1718-51-0)

Reason Code:

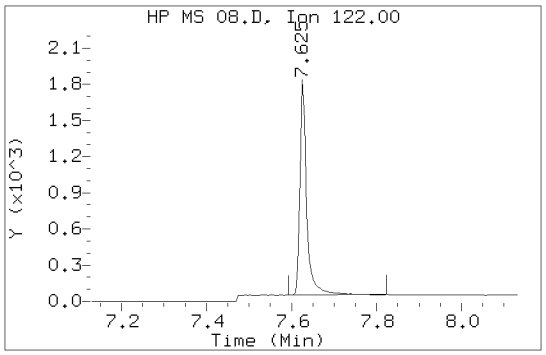
BEFORE

MASS
122
AREA
391
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



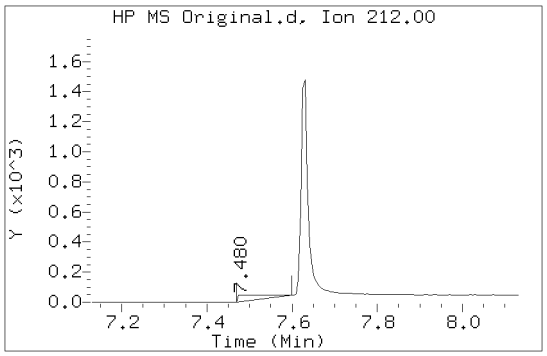
AFTER

MASS
122
AREA
2002
HEIGHT
1786
28-May-2024
13:05



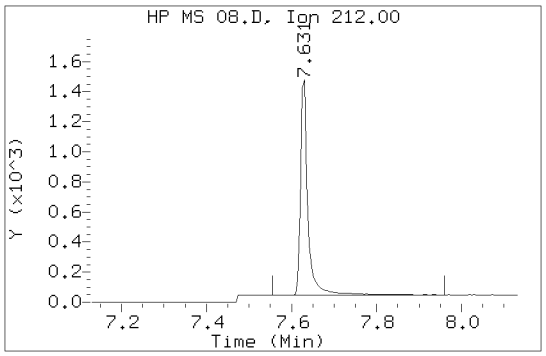
BEFORE

MASS
212
AREA
175
HEIGHT
44
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
212
AREA
1733
HEIGHT
1429
28-May-2024
13:05

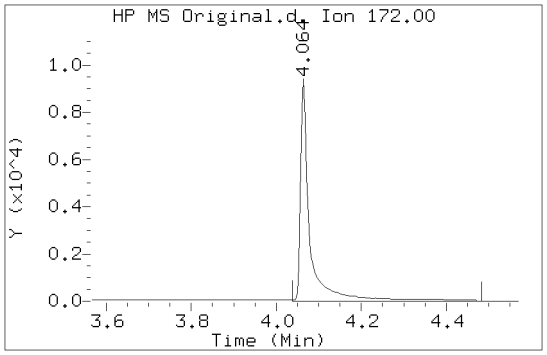


2-Fluorobiphenyl (321-60-8)

Reason Code:

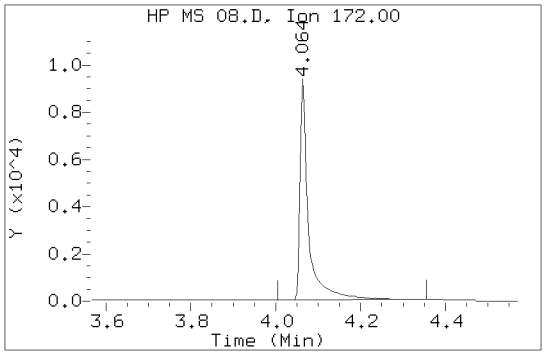
BEFORE

MASS
172
AREA
14843
HEIGHT
9413
18-Apr-2024
14:16
ALSHS
Server



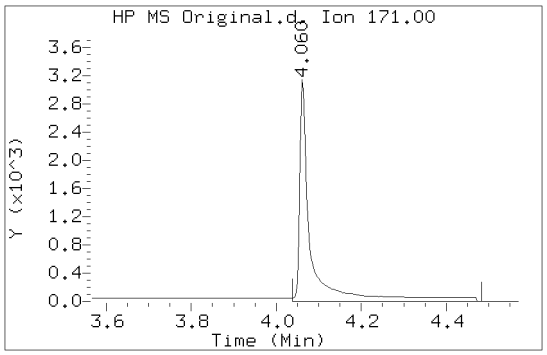
AFTER

MASS
172
AREA
13067
HEIGHT
9360
28-May-2024
13:05



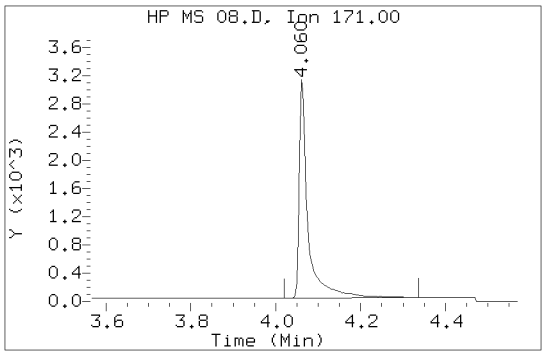
BEFORE

MASS
171
AREA
5828
HEIGHT
3145
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
171
AREA
4411
HEIGHT
3096
28-May-2024
13:05



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Lab Smp Id: 14DX-0.20
Inj Date : 18-APR-2024 14:18
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:18 Cal File: 09.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

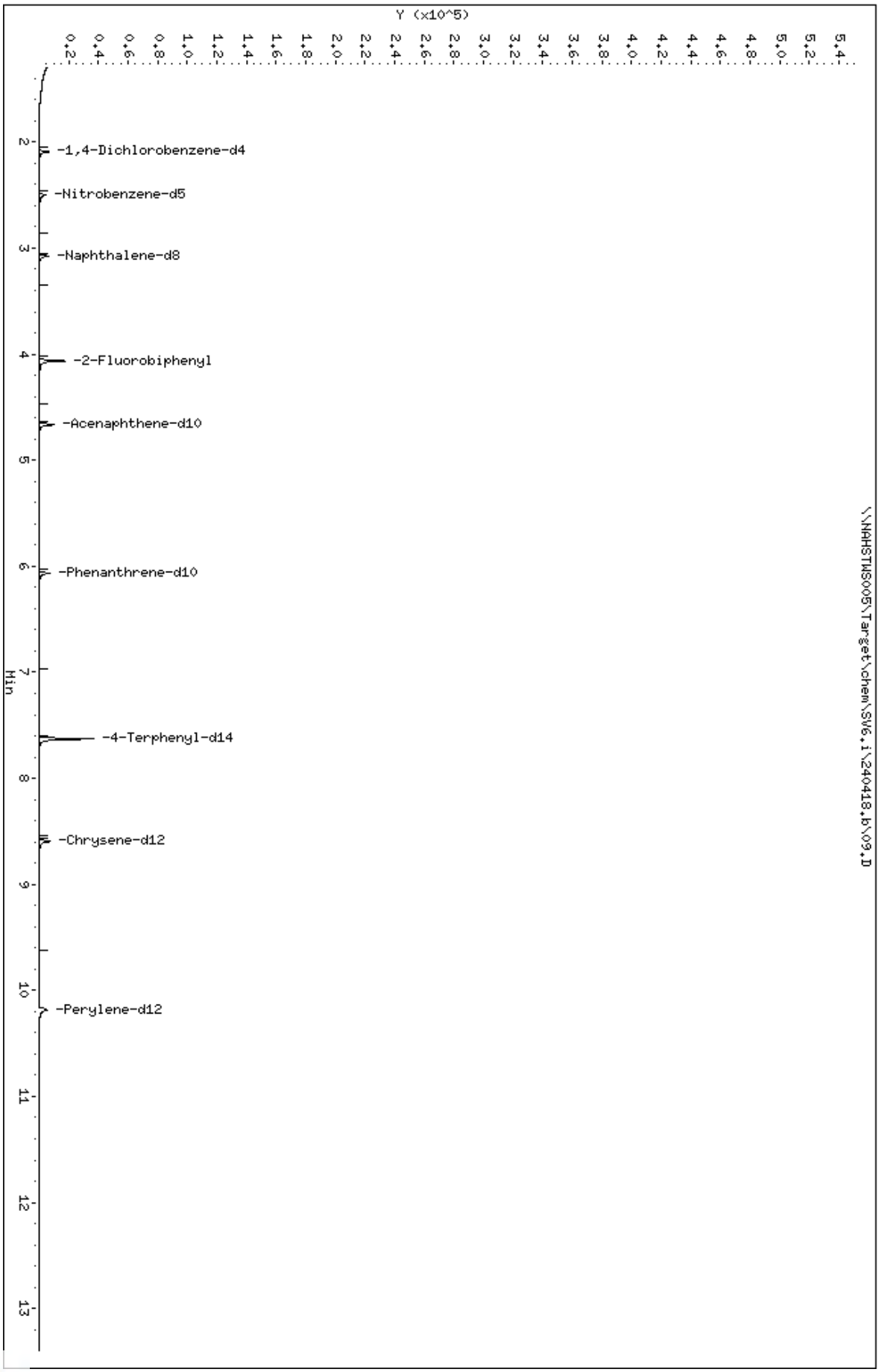
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2896	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9147	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	5927	0.20000	0.2158(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5593	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	17331	0.20000	0.2027(AM)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10775	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9063	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	39718	0.20000	0.2151(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8962	0.10000	(M)
1 1,4-Dioxane	58	0.845	0.820	(0.404)	1268	0.20000	0.2044(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Date : 18-APR-2024 14:18
Client ID:
Sample Info: 14DX-0.20
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

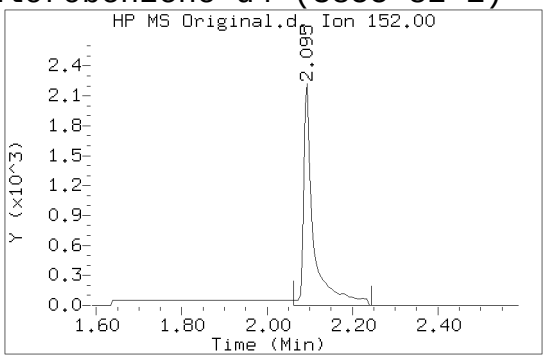


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

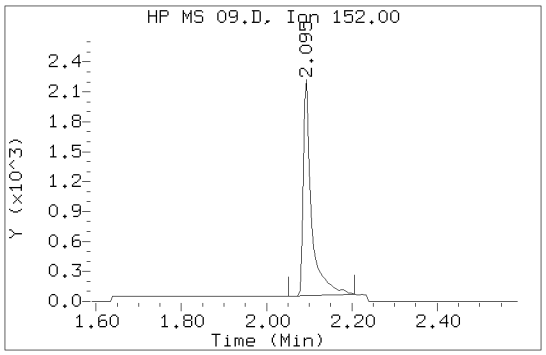
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

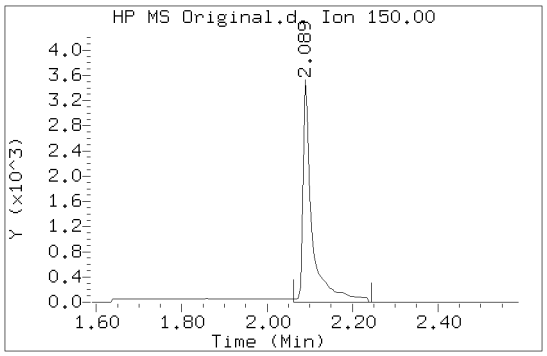
BEFORE
MASS
152
AREA
3565
HEIGHT
2222
18-Apr-2024
14:31
ALSHS
Server



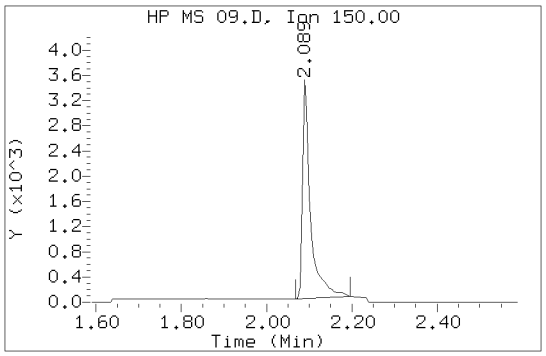
AFTER
MASS
152
AREA
2896
HEIGHT
2165
23-May-2024
08:54



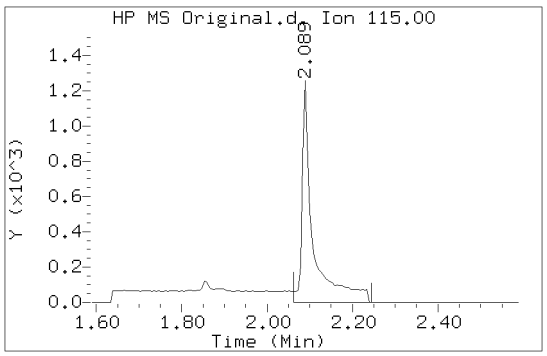
BEFORE
MASS
150
AREA
5268
HEIGHT
3527
18-Apr-2024
14:31
ALSHS
Server



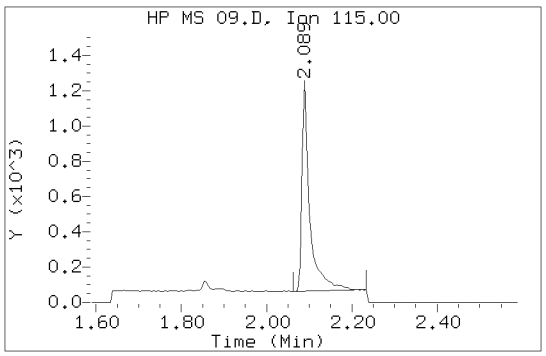
AFTER
MASS
150
AREA
4498
HEIGHT
3469
23-May-2024
08:54



BEFORE
MASS
115
AREA
2227
HEIGHT
1257
18-Apr-2024
14:31
ALSHS
Server



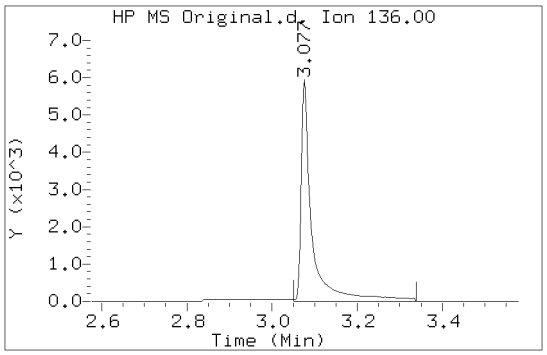
AFTER
MASS
115
AREA
1525
HEIGHT
1194
23-May-2024
08:54



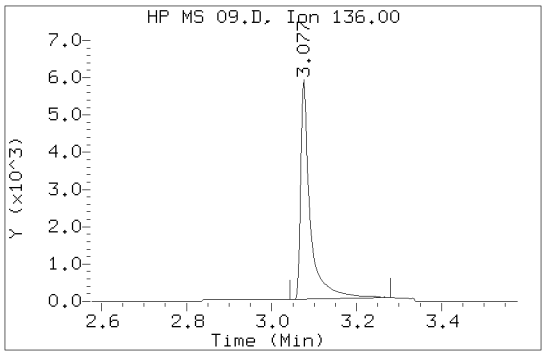
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10466
HEIGHT
5947
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
136
AREA
9147
HEIGHT
5889
23-May-2024
08:54



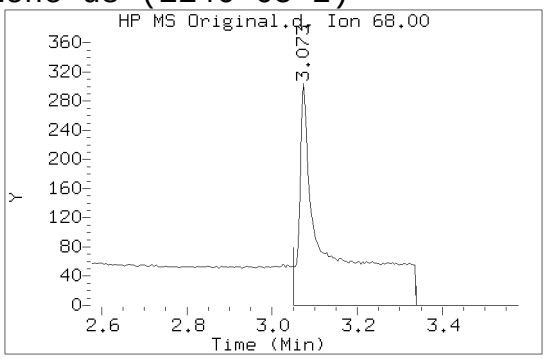
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Naphthalene-d8 (1146-65-2)

Reason Code:

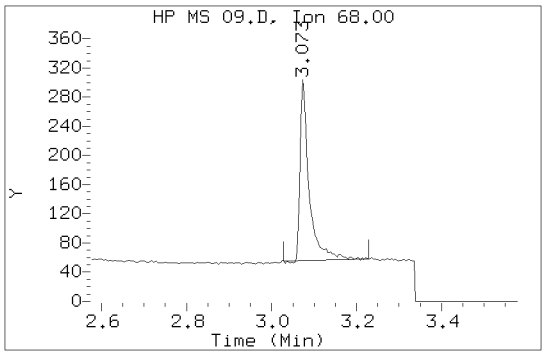
BEFORE

MASS
68
AREA
1344
HEIGHT
304
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
68
AREA
362
HEIGHT
248
23-May-2024
08:54

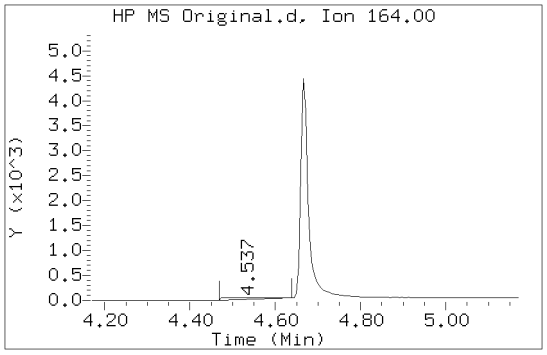


Acenaphthene-d10 (15067-26-2)

Reason Code:

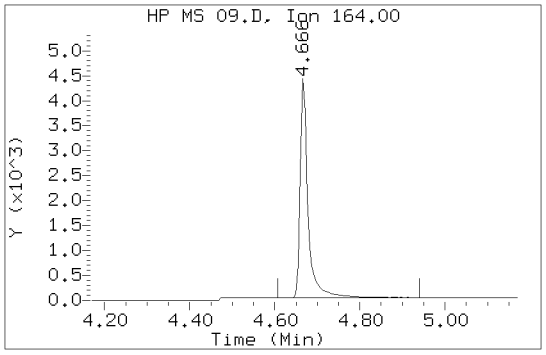
BEFORE

MASS
164
AREA
238
HEIGHT
29
18-Apr-2024
14:31
ALSHS
Server



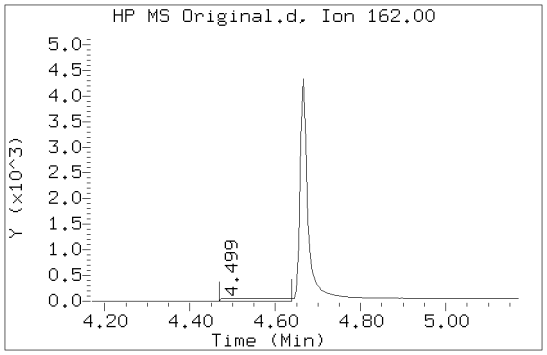
AFTER

MASS
164
AREA
5593
HEIGHT
4390
23-May-2024
08:54



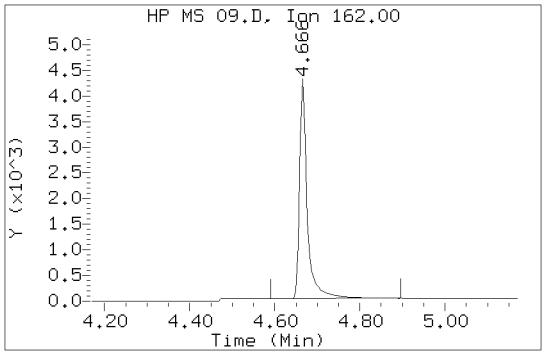
BEFORE

MASS
162
AREA
503
HEIGHT
51
18-Apr-2024
14:31
ALSHS
Server



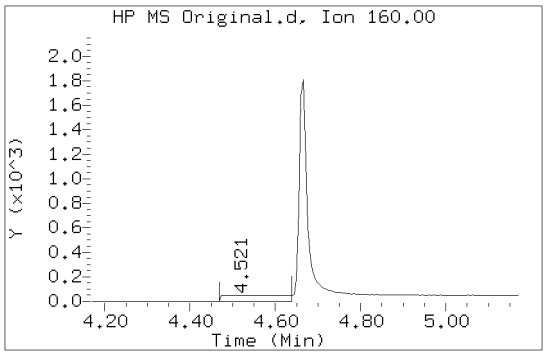
AFTER

MASS
162
AREA
5314
HEIGHT
4281
23-May-2024
08:54



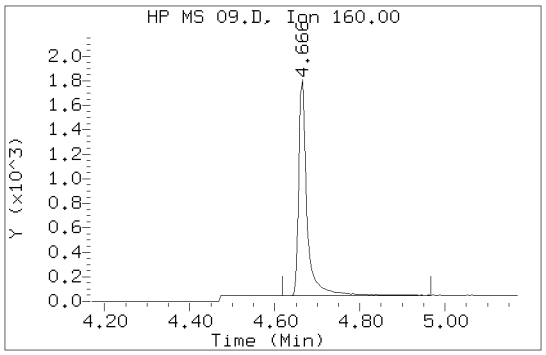
BEFORE

MASS
160
AREA
485
HEIGHT
49
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
160
AREA
2365
HEIGHT
1761
23-May-2024
08:54



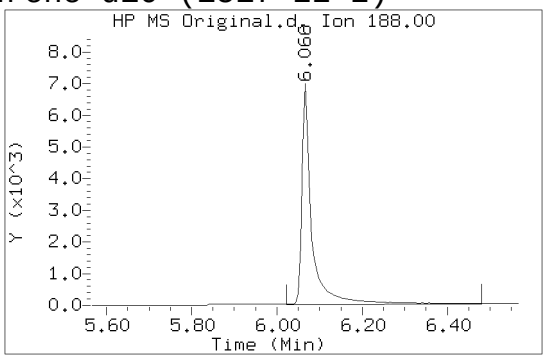
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Phenanthrene-d10 (1517-22-2)

Reason Code:

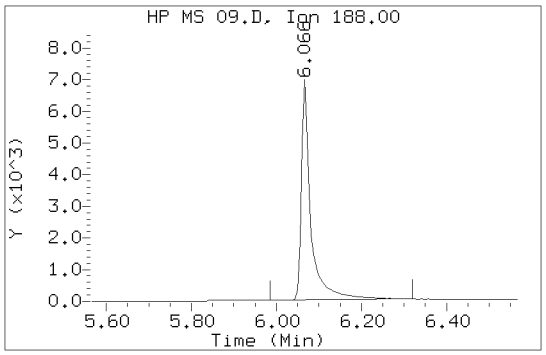
BEFORE

MASS
188
AREA
11617
HEIGHT
6980
18-Apr-2024
14:31
ALSHS
Server



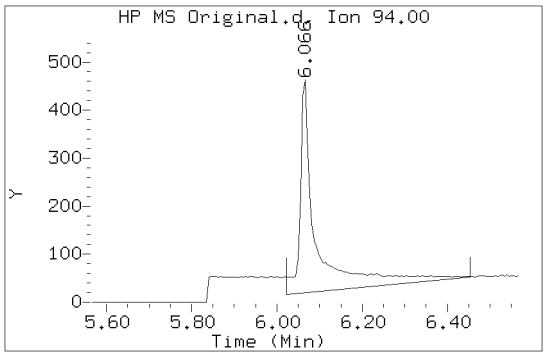
AFTER

MASS
188
AREA
10775
HEIGHT
6945
23-May-2024
08:54



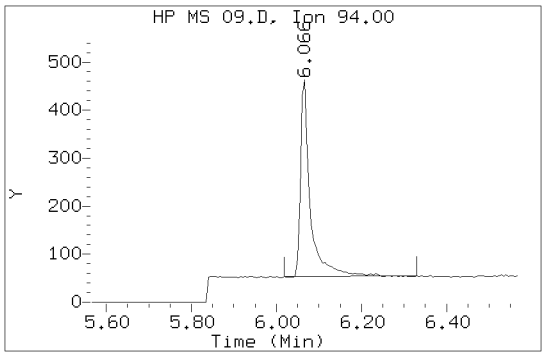
BEFORE

MASS
94
AREA
1175
HEIGHT
443
18-Apr-2024
14:31
ALSHS
Server



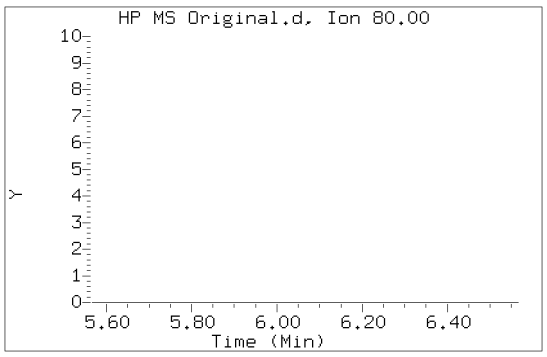
AFTER

MASS
94
AREA
655
HEIGHT
409
23-May-2024
08:54



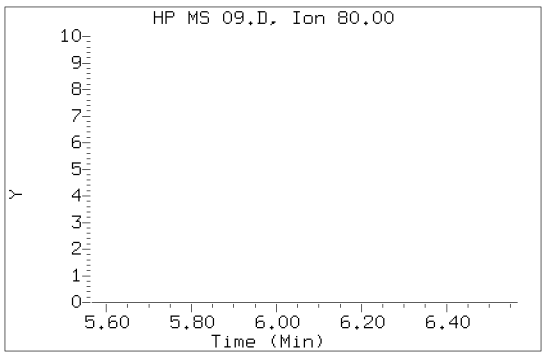
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

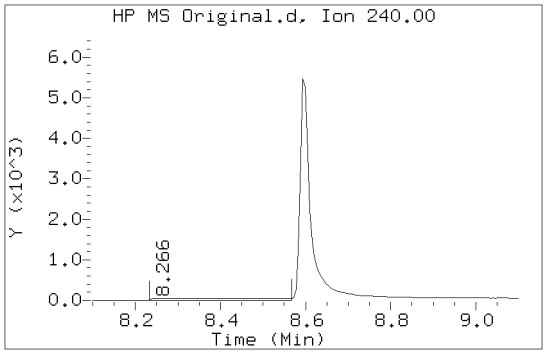


Chrysene-d12 (1719-03-5)

Reason Code:

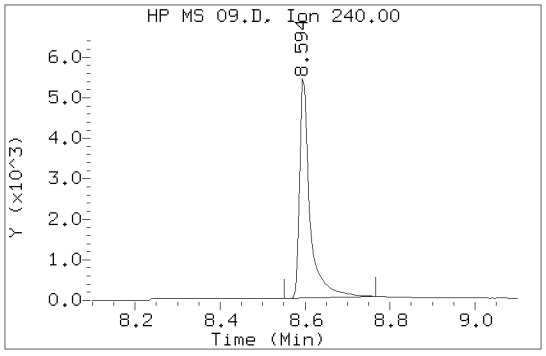
BEFORE

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
240
AREA
9063
HEIGHT
5411
23-May-2024
08:54



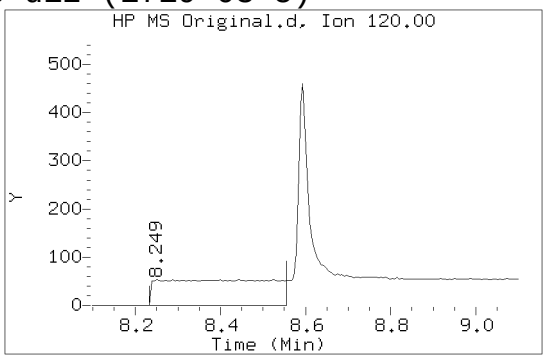
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Chrysene-d12 (1719-03-5)

Reason Code:

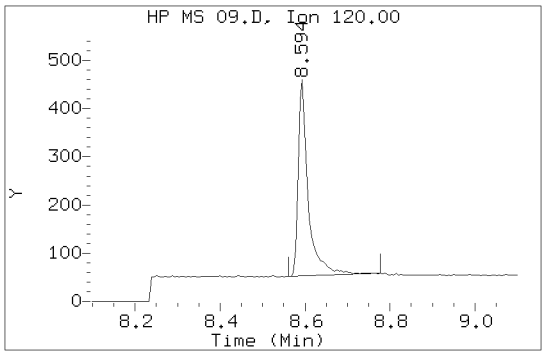
BEFORE

MASS
120
AREA
1000
HEIGHT
53
18-Apr-2024
14:31
ALSHS
Server



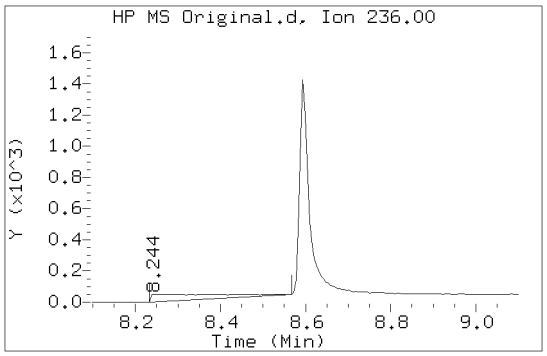
AFTER

MASS
120
AREA
651
HEIGHT
406
23-May-2024
08:54



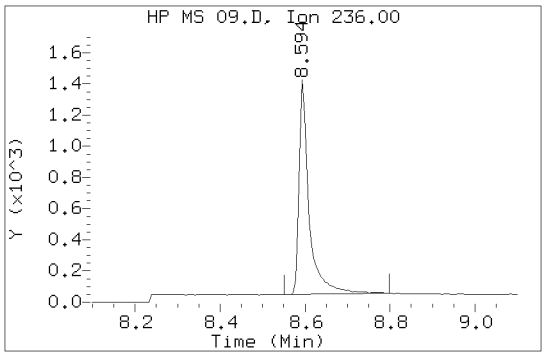
BEFORE

MASS
236
AREA
466
HEIGHT
47
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
236
AREA
2242
HEIGHT
1376
23-May-2024
08:54

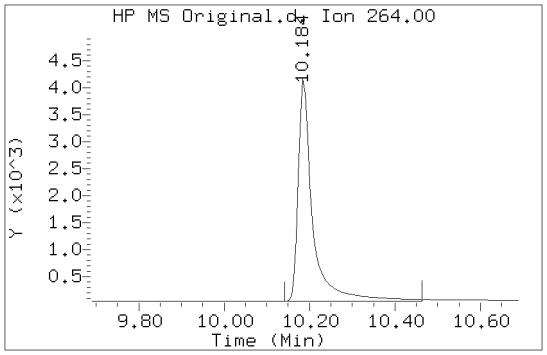


Perylene-d12 (1520-96-3)

Reason Code:

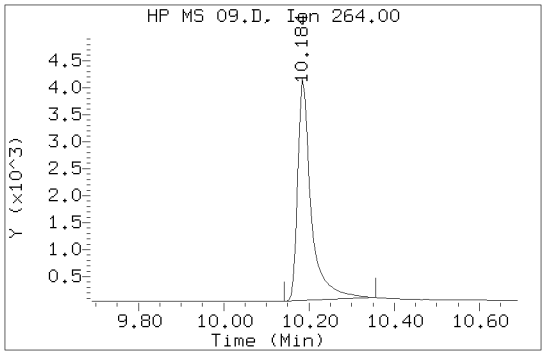
BEFORE

MASS
264
AREA
9658
HEIGHT
4112
18-Apr-2024
14:31
ALSHS
Server



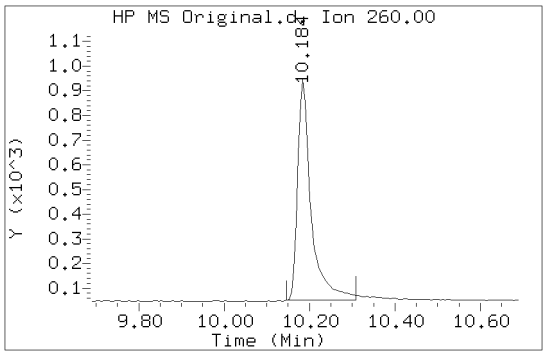
AFTER

MASS
264
AREA
8962
HEIGHT
4099
23-May-2024
08:54



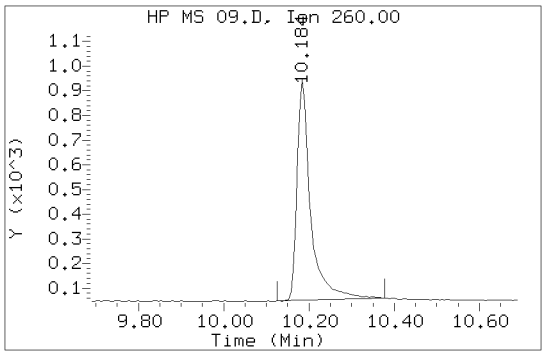
BEFORE

MASS
260
AREA
1972
HEIGHT
894
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
260
AREA
1963
HEIGHT
893
23-May-2024
08:54



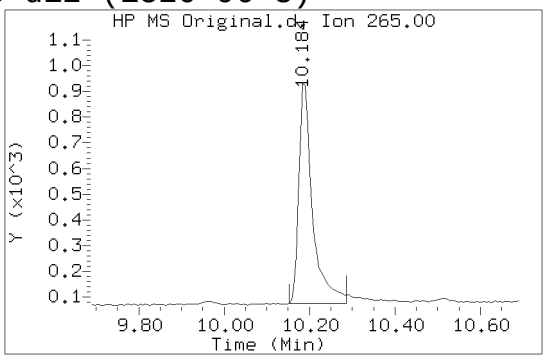
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Perylene-d12 (1520-96-3)

Reason Code:

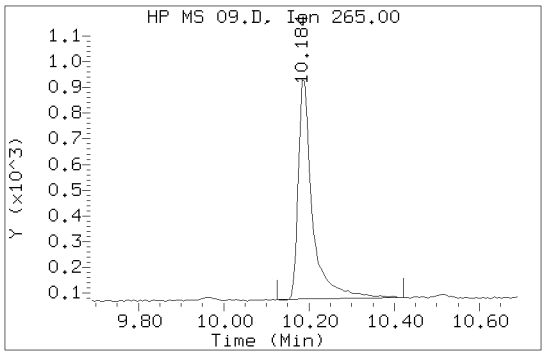
BEFORE

MASS
265
AREA
1909
HEIGHT
854
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
265
AREA
1984
HEIGHT
853
23-May-2024
08:54

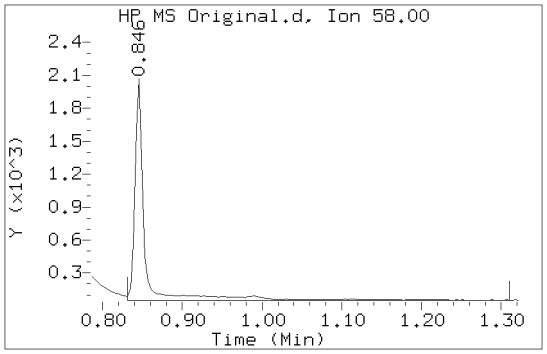


1,4-Dioxane ()

Reason Code:

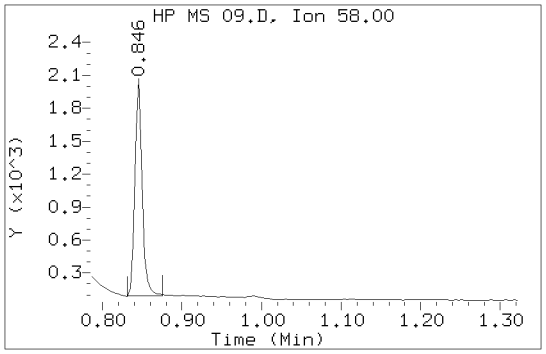
BEFORE

MASS
58
AREA
1746
HEIGHT
2018
18-Apr-2024
14:31
ALSHS
Server



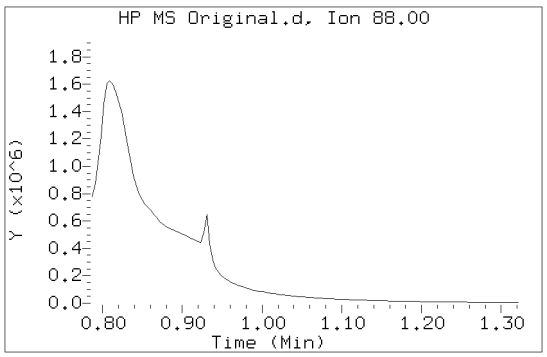
AFTER

MASS
58
AREA
1268
HEIGHT
1979
23-May-2024
08:54



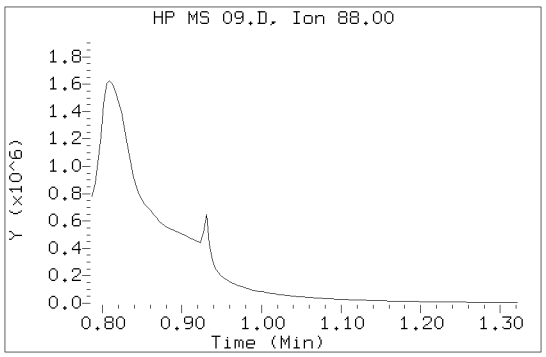
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
08:54

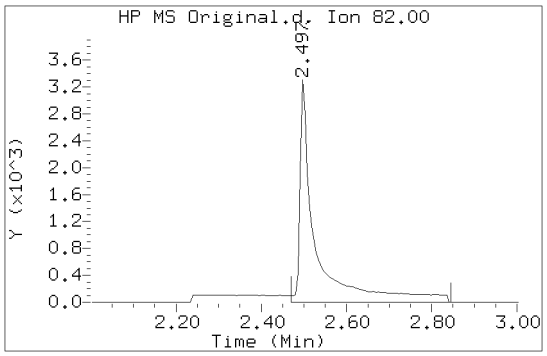


Nitrobenzene-d5 (4165-60-0)

Reason Code:

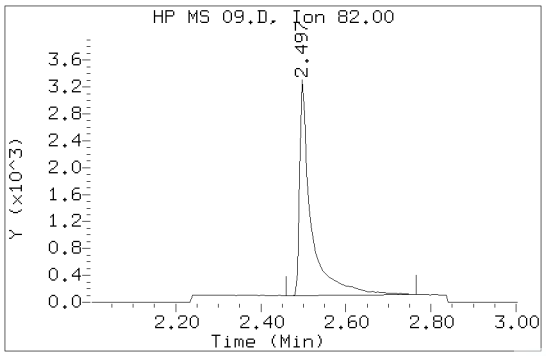
BEFORE

MASS
82
AREA
8325
HEIGHT
3305
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
82
AREA
5927
HEIGHT
3202
23-May-2024
08:54

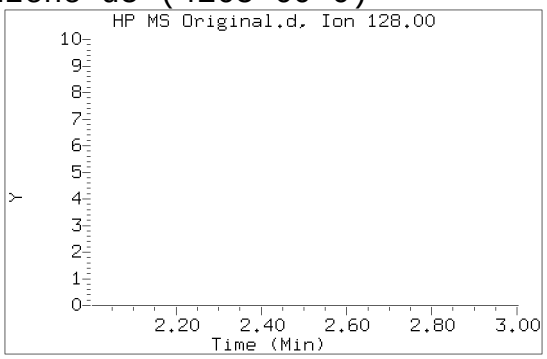


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

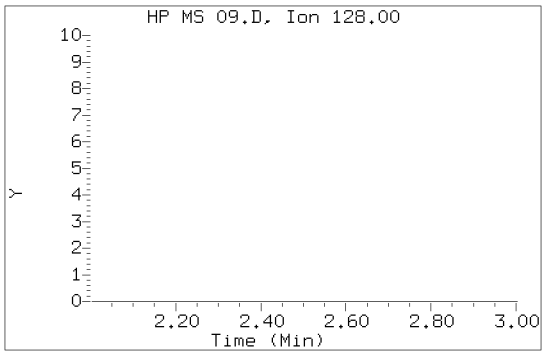
Nitrobenzene-d5 (4165-60-0)

Reason Code:

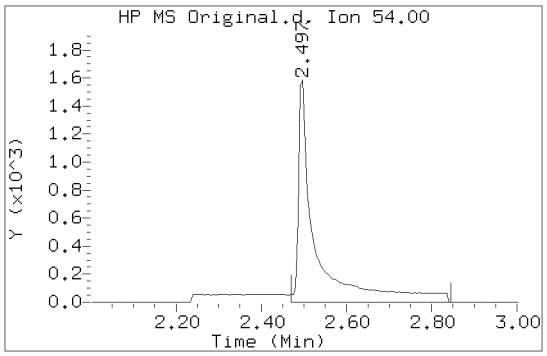
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



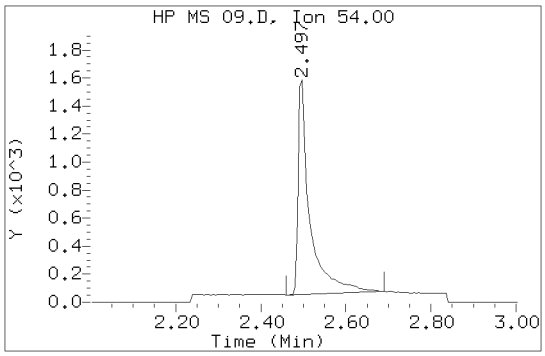
AFTER
MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



BEFORE
MASS
54
AREA
4354
HEIGHT
1586
18-Apr-2024
14:31
ALSHS
Server



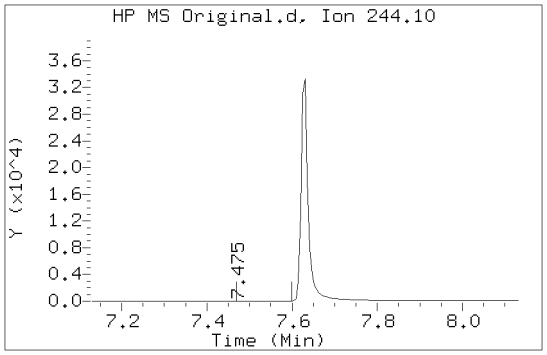
AFTER
MASS
54
AREA
2914
HEIGHT
1530
23-May-2024
08:54



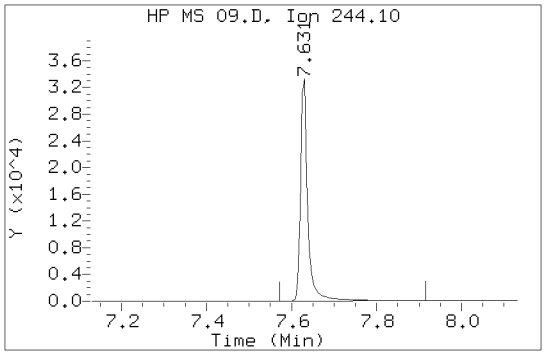
4-Terphenyl-d14 (1718-51-0)

Reason Code:

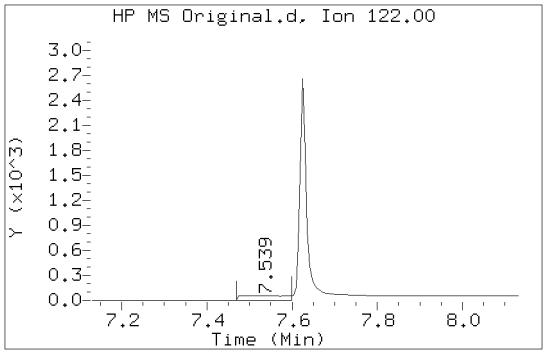
BEFORE
MASS
244.1
AREA
171
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



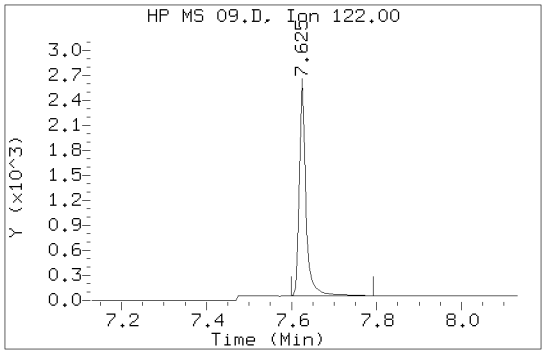
AFTER
MASS
244.1
AREA
39718
HEIGHT
33227
23-May-2024
08:54



BEFORE
MASS
122
AREA
392
HEIGHT
52
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
122
AREA
2843
HEIGHT
2606
23-May-2024
08:54



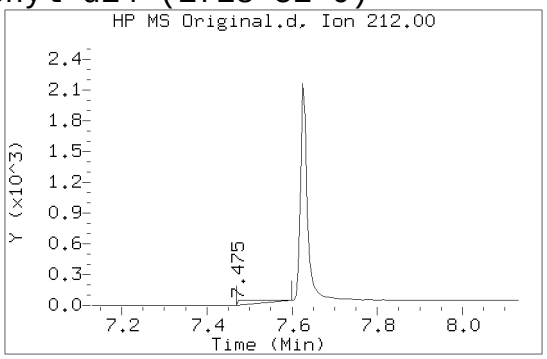
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

4-Terphenyl-d14 (1718-51-0)

Reason Code:

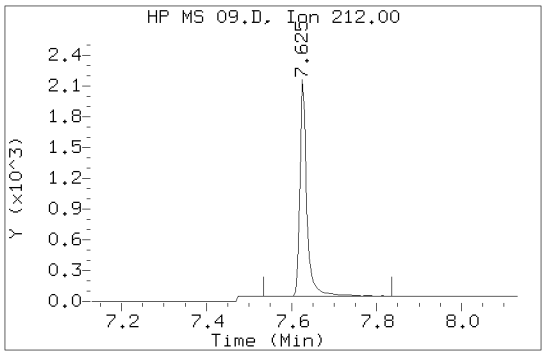
BEFORE

MASS
212
AREA
176
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
212
AREA
2426
HEIGHT
2111
23-May-2024
08:54

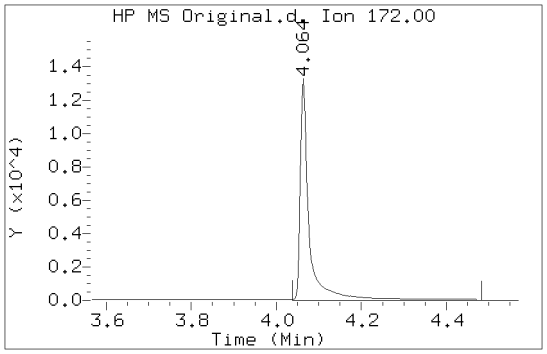


2-Fluorobiphenyl (321-60-8)

Reason Code:

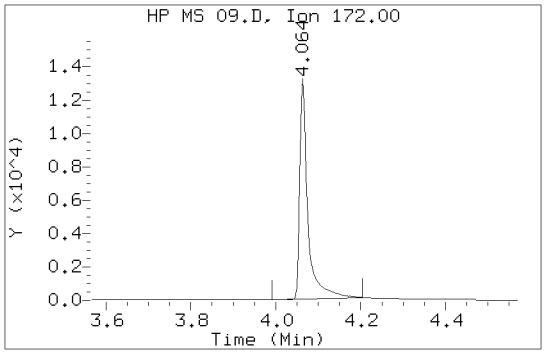
BEFORE

MASS
172
AREA
20172
HEIGHT
13283
18-Apr-2024
14:31
ALSHS
Server



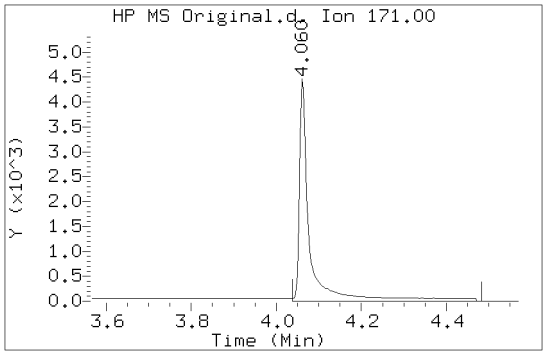
AFTER

MASS
172
AREA
17331
HEIGHT
13194
23-May-2024
08:54



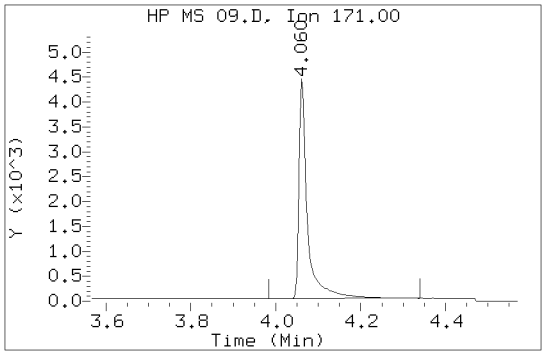
BEFORE

MASS
171
AREA
7647
HEIGHT
4464
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
171
AREA
6174
HEIGHT
4414
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Lab Smp Id: 14DX-0.50
Inj Date : 18-APR-2024 14:35
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

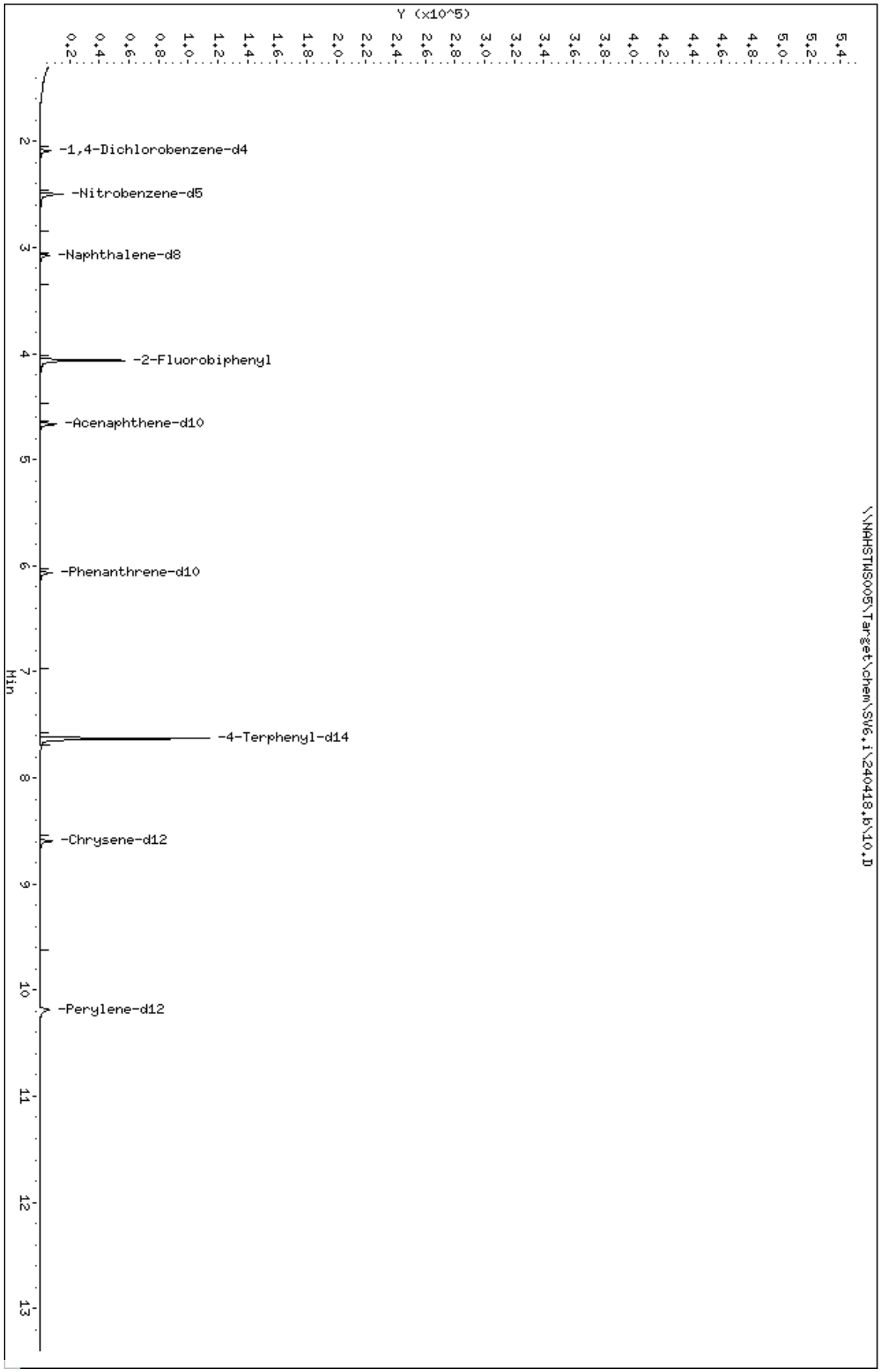
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2819	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9772	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	15956	0.50000	0.5439(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5911	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	47534	0.50000	0.5260(AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	11325	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9856	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	111493	0.50000	0.5553(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	10138	0.10000	
1 1,4-Dioxane	58	0.831	0.820	(0.398)	2813	0.50000	0.4659(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Date : 18-APR-2024 14:35
Client ID:
Sample Info: 14DX-0.50
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

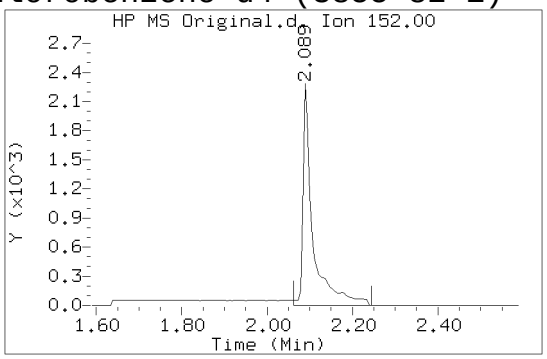
Instrument: SV6.i
Operator: LG
Column diameter: 0.28

Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

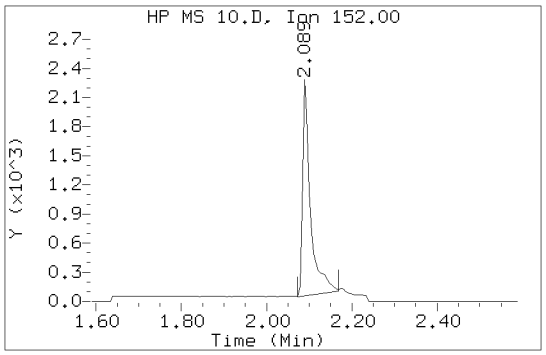
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

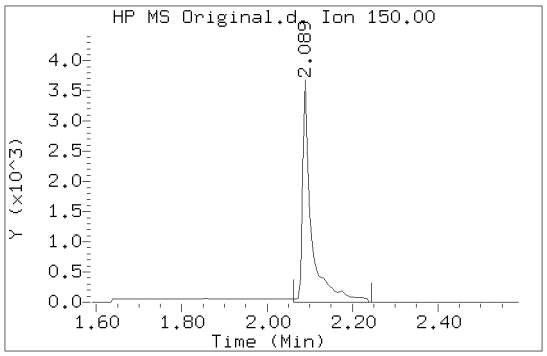
BEFORE
MASS
152
AREA
3637
HEIGHT
2284
18-Apr-2024
14:51
ALSHS
Server



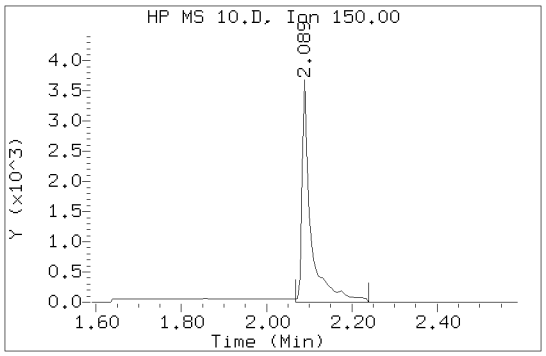
AFTER
MASS
152
AREA
2819
HEIGHT
2227
28-May-2024
13:05



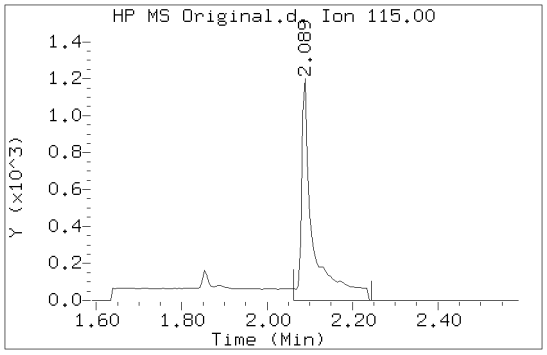
BEFORE
MASS
150
AREA
5370
HEIGHT
3682
18-Apr-2024
14:51
ALSHS
Server



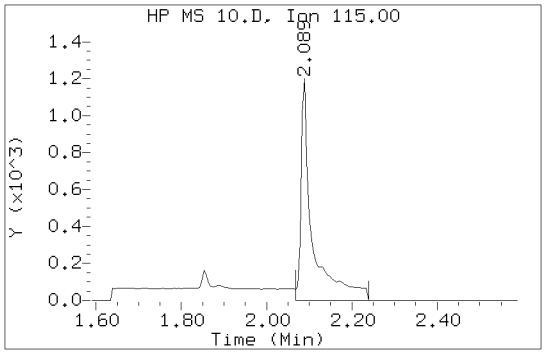
AFTER
MASS
150
AREA
5355
HEIGHT
3682
28-May-2024
13:05



BEFORE
MASS
115
AREA
2255
HEIGHT
1200
18-Apr-2024
14:51
ALSHS
Server



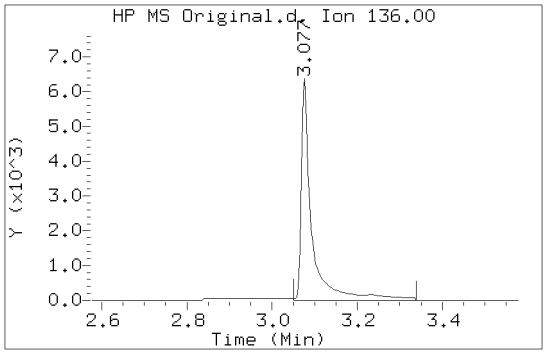
AFTER
MASS
115
AREA
2236
HEIGHT
1200
28-May-2024
13:05



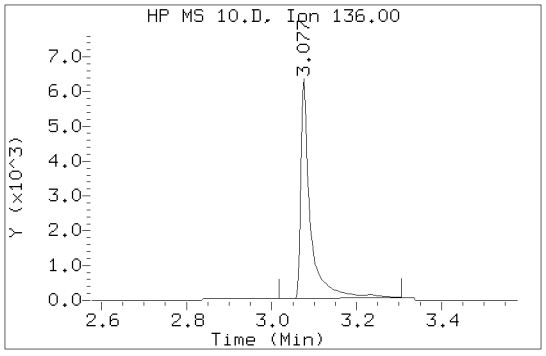
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10944
HEIGHT
6372
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
136
AREA
9772
HEIGHT
6315
28-May-2024
13:05



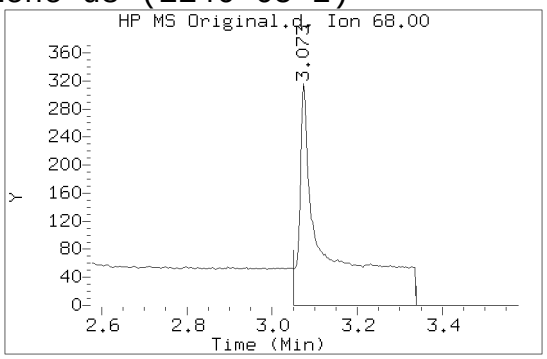
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Naphthalene-d8 (1146-65-2)

Reason Code:

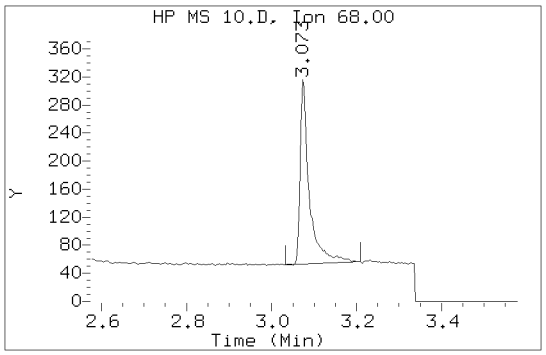
BEFORE

MASS
68
AREA
1337
HEIGHT
316
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
68
AREA
385
HEIGHT
262
28-May-2024
13:05

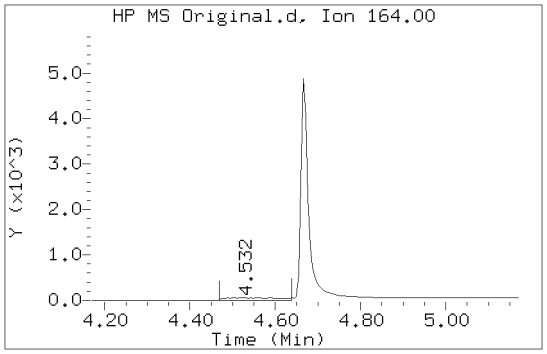


Acenaphthene-d10 (15067-26-2)

Reason Code:

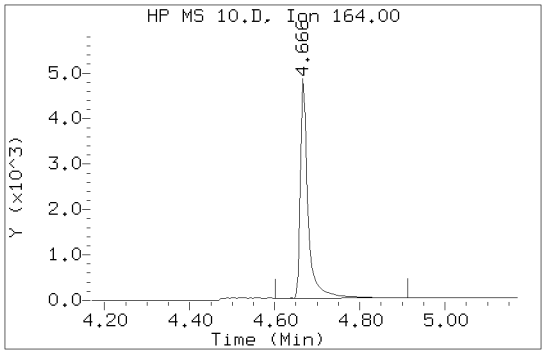
BEFORE

MASS
164
AREA
504
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



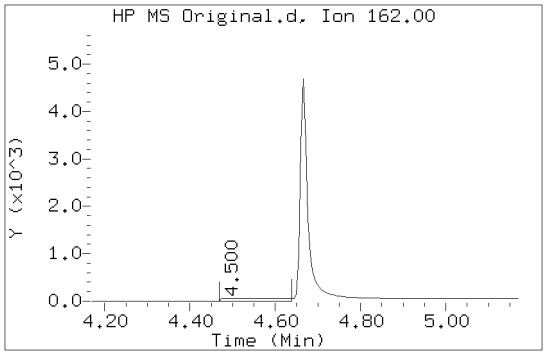
AFTER

MASS
164
AREA
5911
HEIGHT
4828
28-May-2024
13:05



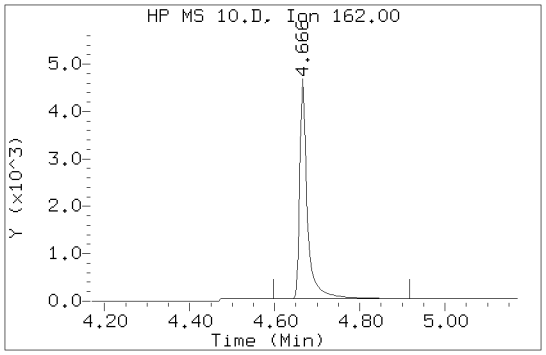
BEFORE

MASS
162
AREA
499
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



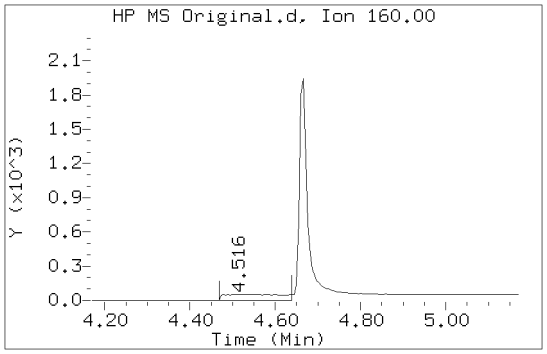
AFTER

MASS
162
AREA
5684
HEIGHT
4637
28-May-2024
13:05



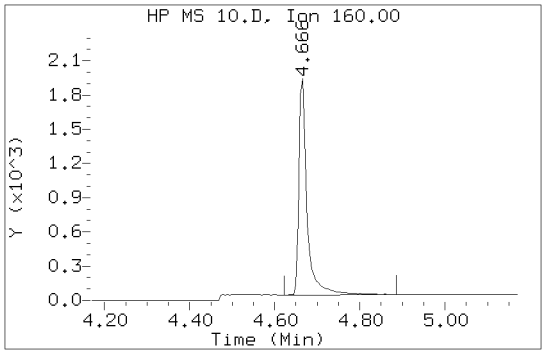
BEFORE

MASS
160
AREA
487
HEIGHT
49
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
160
AREA
2489
HEIGHT
1895
28-May-2024
13:05



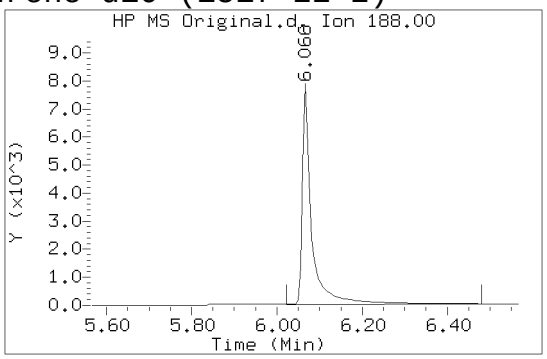
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Phenanthrene-d10 (1517-22-2)

Reason Code:

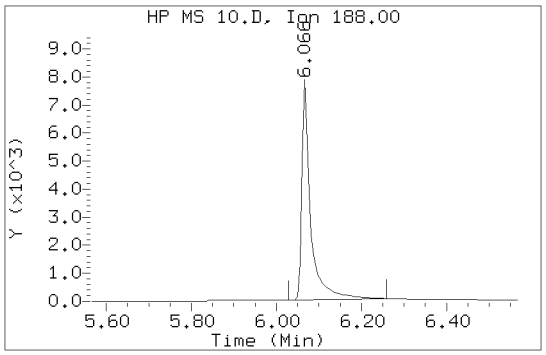
BEFORE

MASS
188
AREA
12429
HEIGHT
7885
18-Apr-2024
14:51
ALSHS
Server



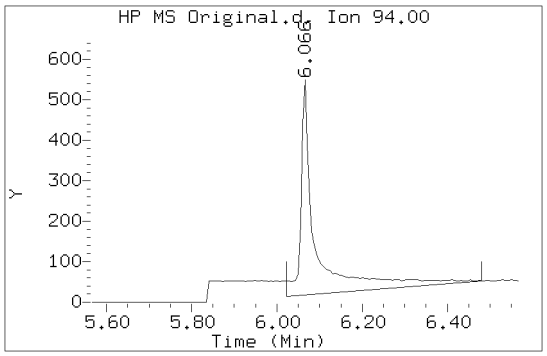
AFTER

MASS
188
AREA
11325
HEIGHT
7848
28-May-2024
13:05



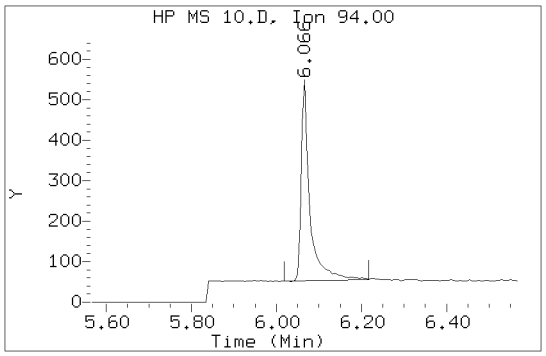
BEFORE

MASS
94
AREA
1281
HEIGHT
530
18-Apr-2024
14:51
ALSHS
Server



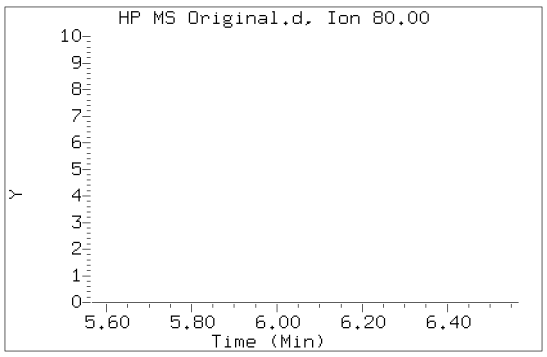
AFTER

MASS
94
AREA
704
HEIGHT
496
28-May-2024
13:05



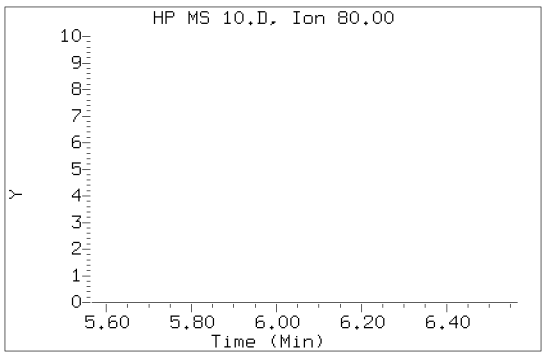
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

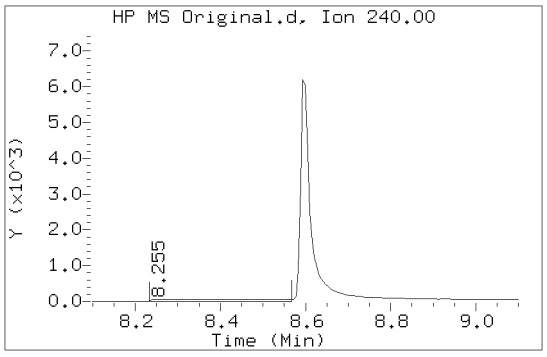


Chrysene-d12 (1719-03-5)

Reason Code:

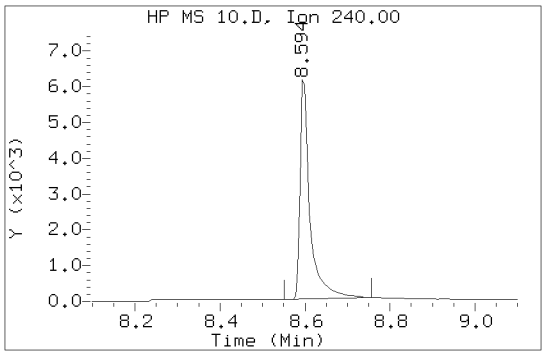
BEFORE

MASS
240
AREA
983
HEIGHT
51
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
240
AREA
9856
HEIGHT
6137
28-May-2024
13:05



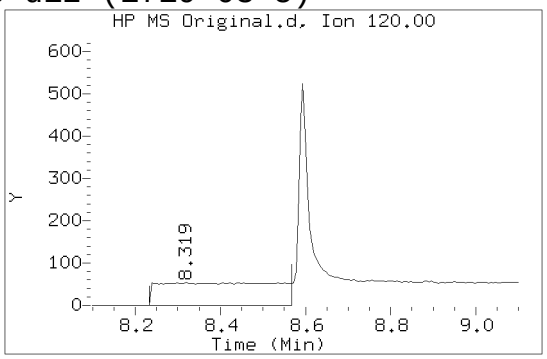
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Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Chrysene-d12 (1719-03-5)

Reason Code:

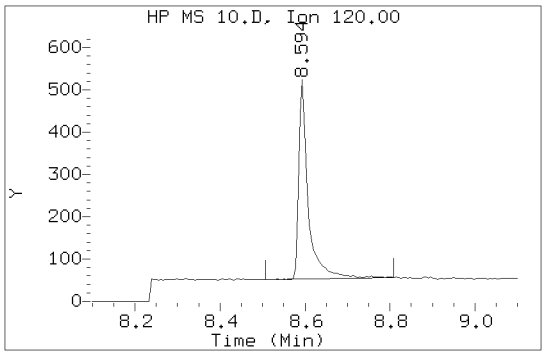
BEFORE

MASS
120
AREA
1034
HEIGHT
54
18-Apr-2024
14:51
ALSHS
Server



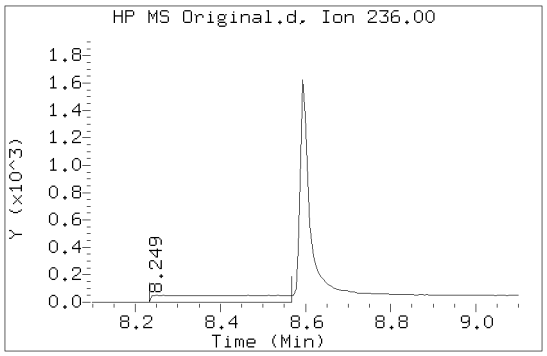
AFTER

MASS
120
AREA
718
HEIGHT
470
28-May-2024
13:05



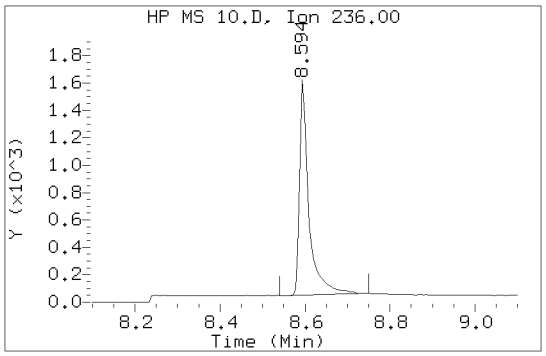
BEFORE

MASS
236
AREA
972
HEIGHT
50
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
236
AREA
2369
HEIGHT
1570
28-May-2024
13:05

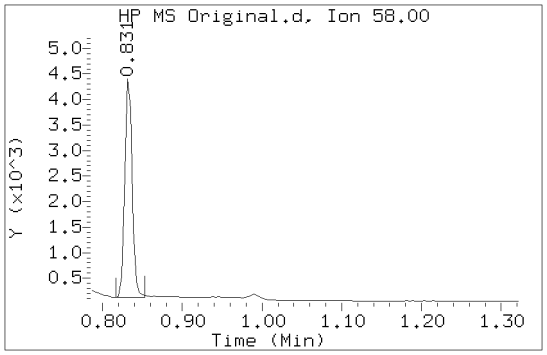


1,4-Dioxane ()

Reason Code:

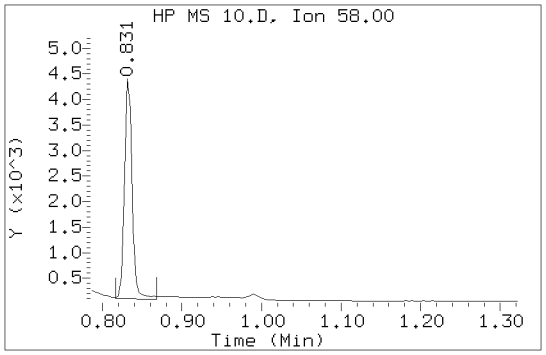
BEFORE

MASS
58
AREA
2715
HEIGHT
4282
18-Apr-2024
14:51
ALSHS
Server



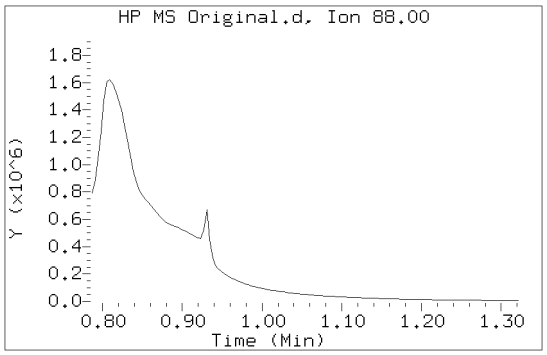
AFTER

MASS
58
AREA
2813
HEIGHT
4303
28-May-2024
13:05



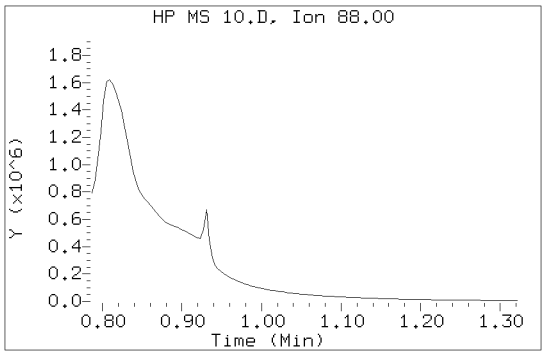
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

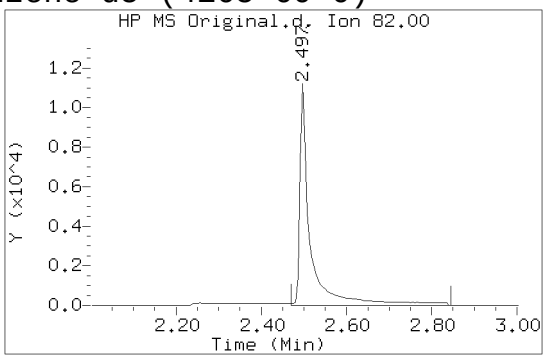


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Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

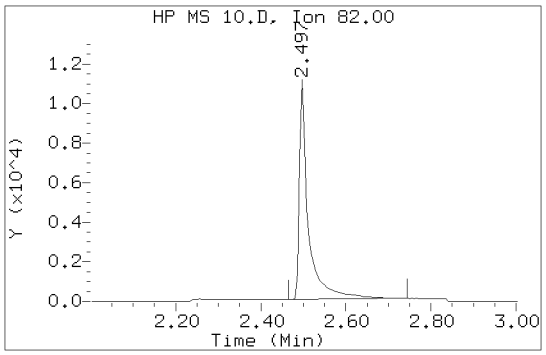
Nitrobenzene-d5 (4165-60-0)

Reason Code:

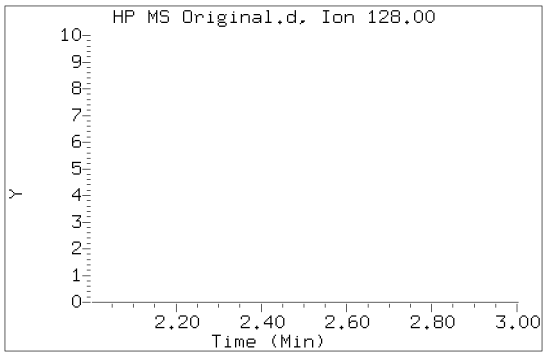
BEFORE
MASS
82
AREA
18735
HEIGHT
11209
18-Apr-2024
14:51
ALSHS
Server



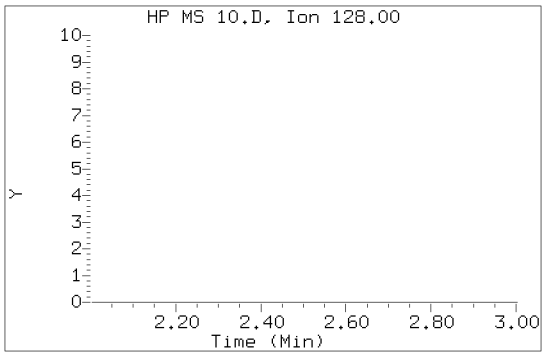
AFTER
MASS
82
AREA
15956
HEIGHT
11102
28-May-2024
13:05



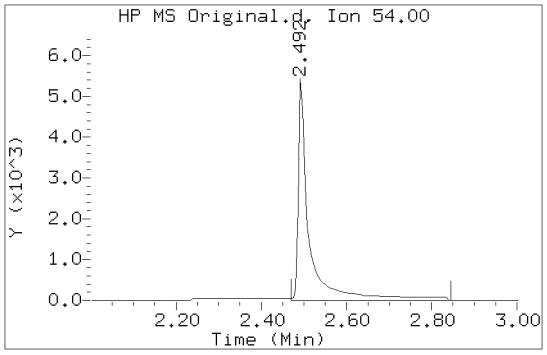
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



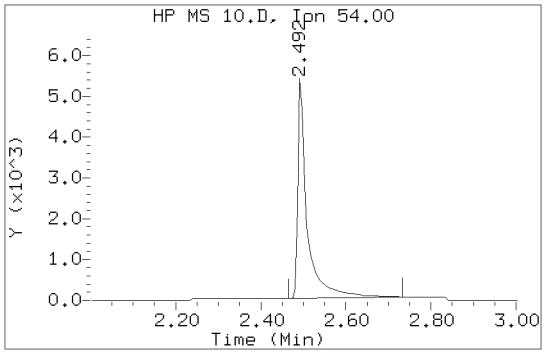
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
9543
HEIGHT
5435
18-Apr-2024
14:51
ALSHS
Server



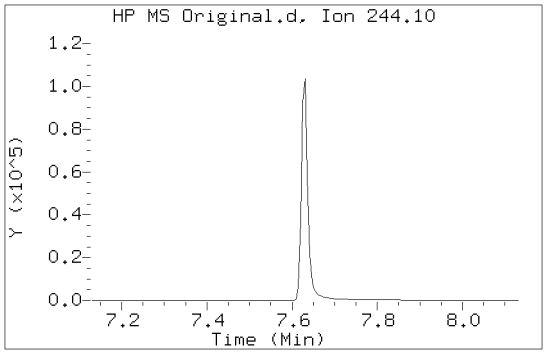
AFTER
MASS
54
AREA
8025
HEIGHT
5379
28-May-2024
13:05



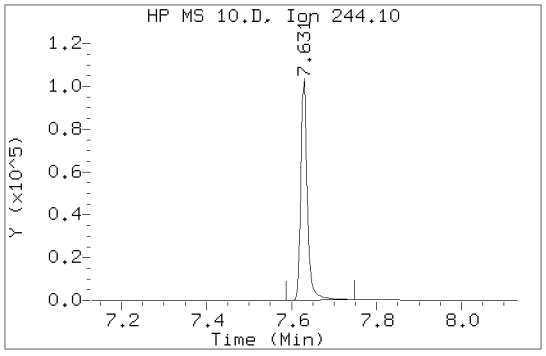
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
244.1
AREA
111493
HEIGHT
103434
28-May-2024
13:05



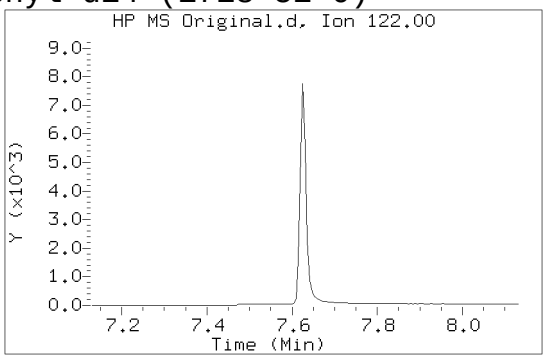
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

4-Terphenyl-d14 (1718-51-0)

Reason Code:

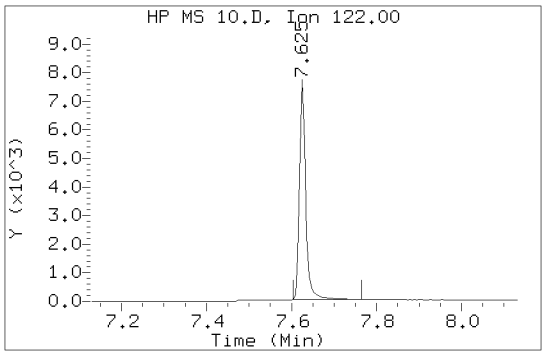
BEFORE

MASS
122
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



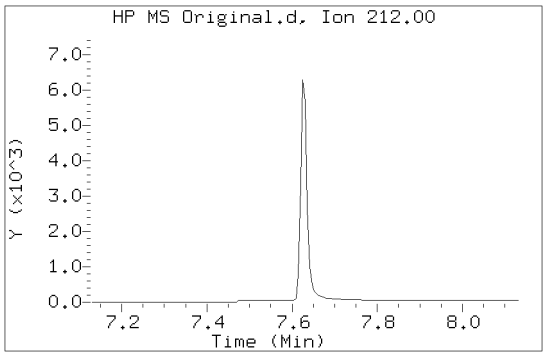
AFTER

MASS
122
AREA
7961
HEIGHT
7695
28-May-2024
13:05



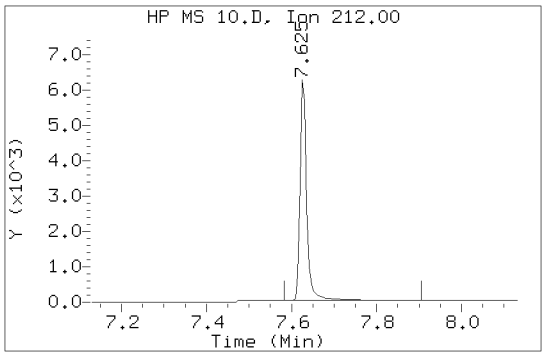
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
212
AREA
6900
HEIGHT
6243
28-May-2024
13:05

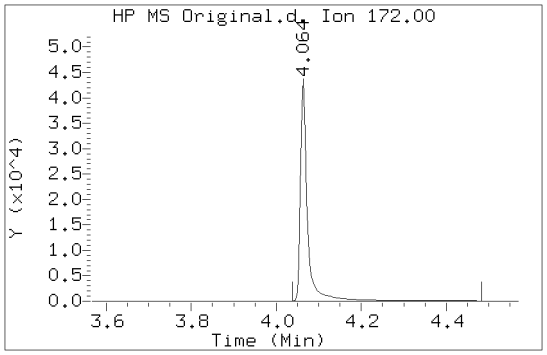


2-Fluorobiphenyl (321-60-8)

Reason Code:

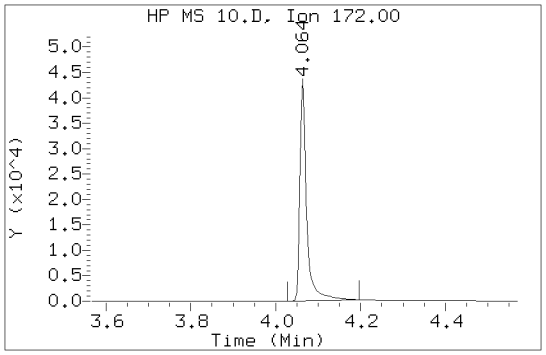
BEFORE

MASS
172
AREA
51564
HEIGHT
43720
18-Apr-2024
14:51
ALSHS
Server



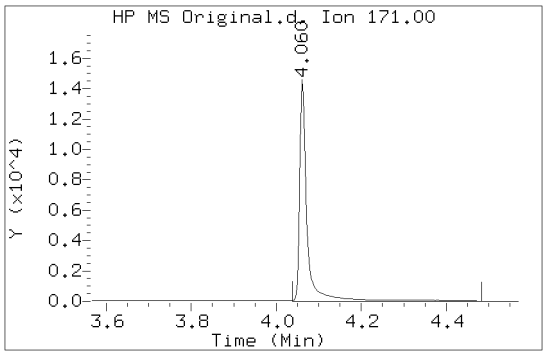
AFTER

MASS
172
AREA
47534
HEIGHT
43625
28-May-2024
13:05



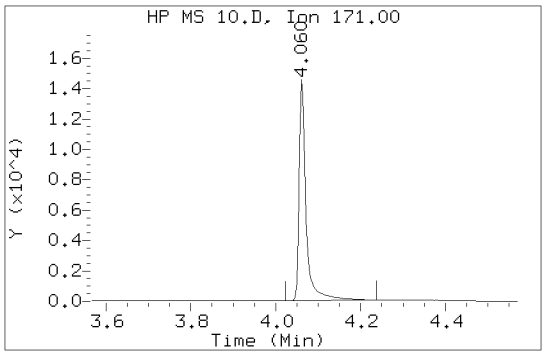
BEFORE

MASS
171
AREA
18313
HEIGHT
14592
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
171
AREA
16377
HEIGHT
14537
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

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Inj Date : 18-APR-2024 14:53
Operator : LG Inst ID: SV6.i
Smp Info : 14DX ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2645	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7708	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	1691	0.07308	0.07308(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5072	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	5460	0.07042	0.07042(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10292	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	7884	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	11331	0.07055	0.07055(M)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8007	0.10000	
1 1,4-Dioxane	58	0.838	0.820	(0.400)	429	0.07572	0.07572

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D

Date : 18-APR-2024 14:53

Client ID: 14DX ICV-0.08

Instrument: SV6.i

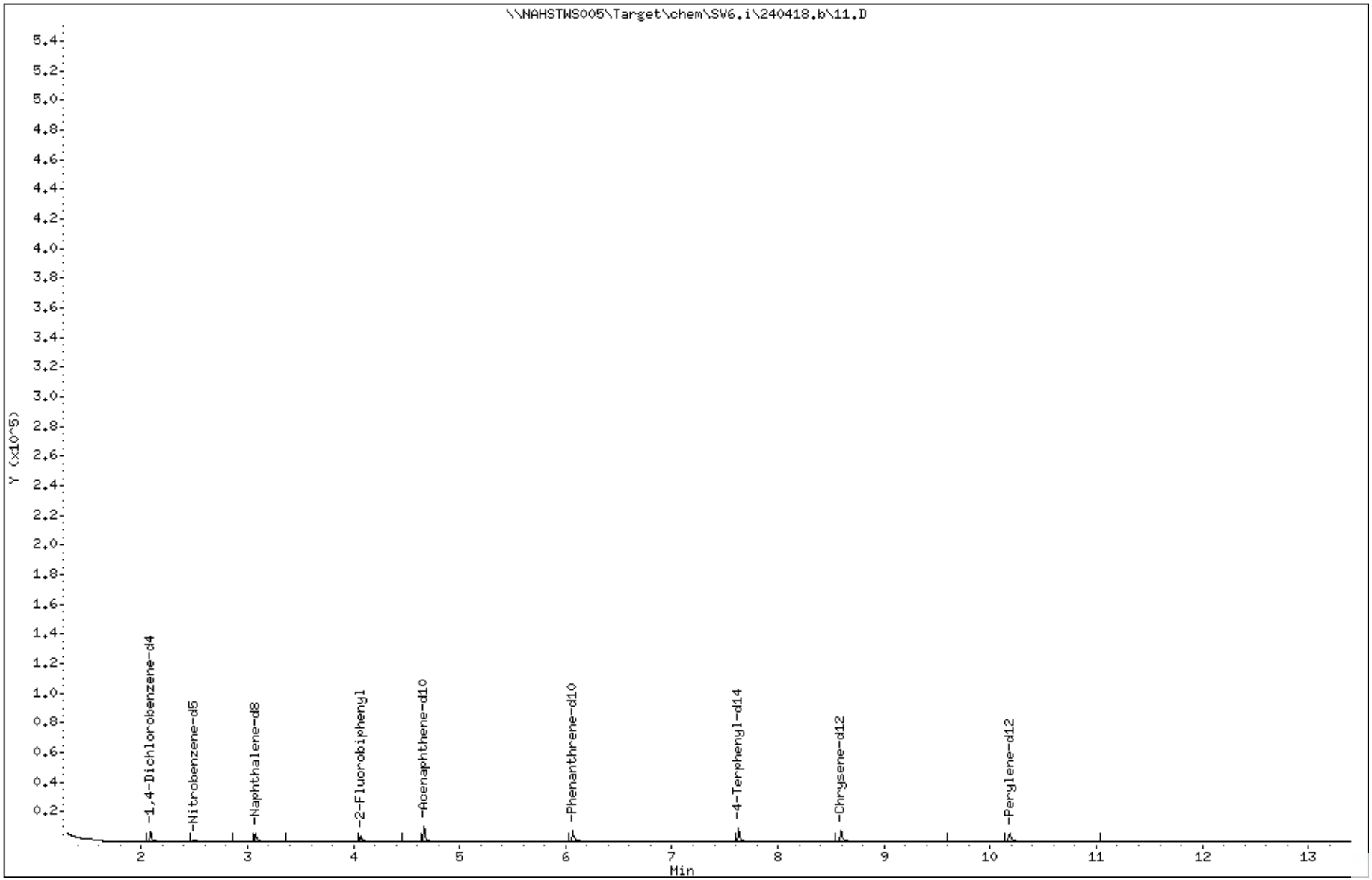
Sample Info: 14DX ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



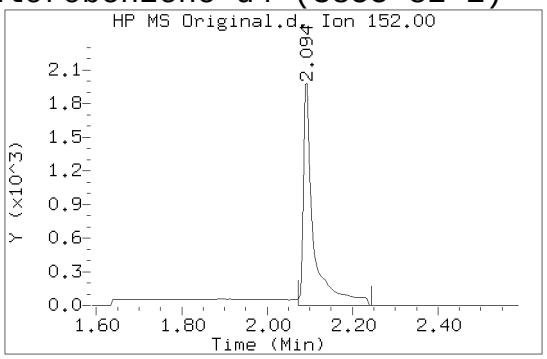
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Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

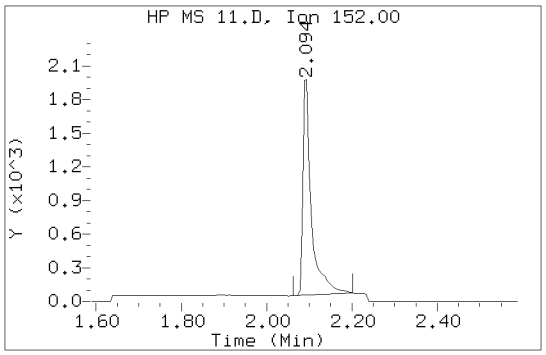
BEFORE

MASS
152
AREA
3284
HEIGHT
1978
18-Apr-2024
15:08
ALSHS
Server



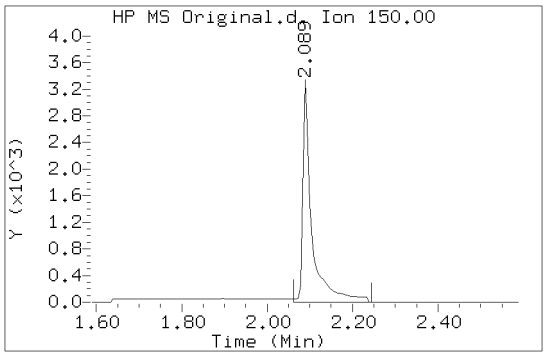
AFTER

MASS
152
AREA
2645
HEIGHT
1921
05-Jun-2024
11:49
ALSHS



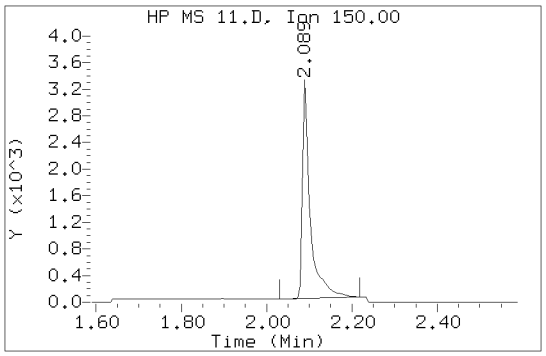
BEFORE

MASS
150
AREA
4880
HEIGHT
3340
18-Apr-2024
15:08
ALSHS
Server



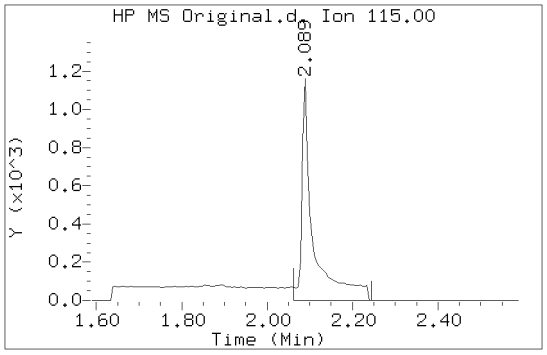
AFTER

MASS
150
AREA
4160
HEIGHT
3281
05-Jun-2024
11:49
ALSHS



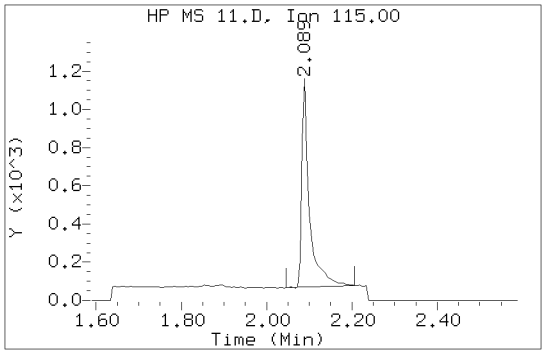
BEFORE

MASS
115
AREA
2134
HEIGHT
1161
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
115
AREA
1363
HEIGHT
1092
05-Jun-2024
11:49
ALSHS

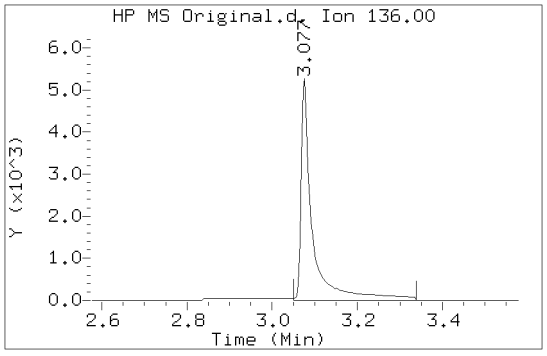


Naphthalene-d8 (1146-65-2)

Reason Code:

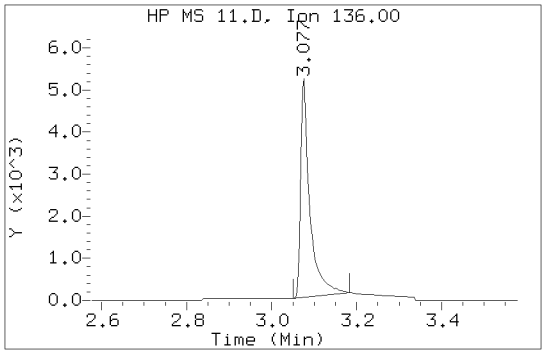
BEFORE

MASS
136
AREA
9692
HEIGHT
5268
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
136
AREA
7708
HEIGHT
5193
05-Jun-2024
11:49
ALSHS



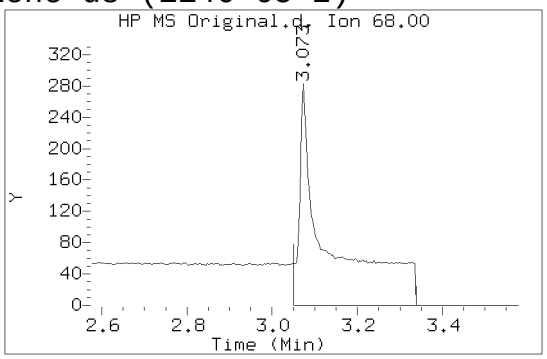
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Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

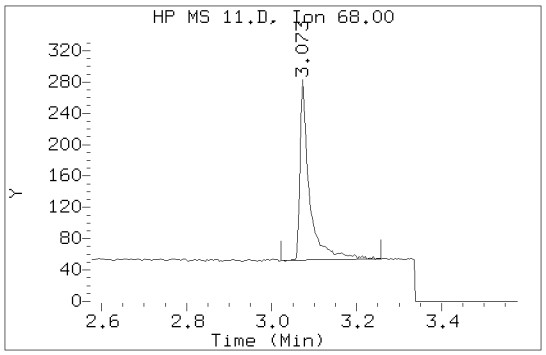
BEFORE

MASS
68
AREA
1275
HEIGHT
283
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
68
AREA
353
HEIGHT
230
05-Jun-2024
11:49
ALSHS

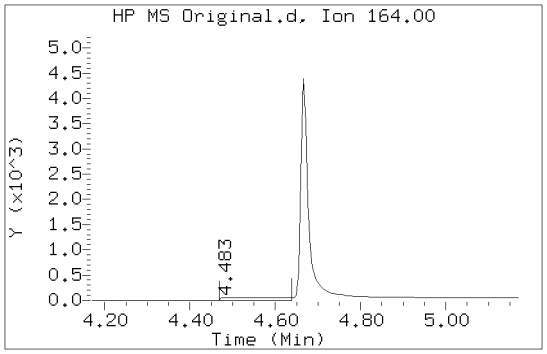


Acenaphthene-d10 (15067-26-2)

Reason Code:

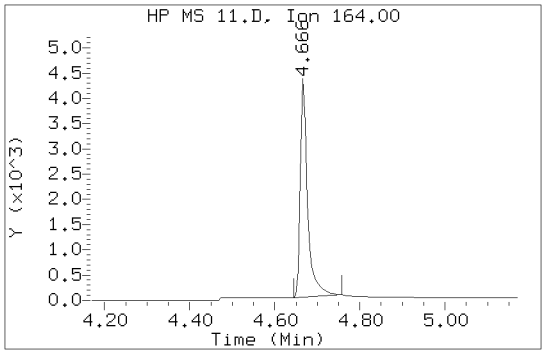
BEFORE

MASS
164
AREA
510
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



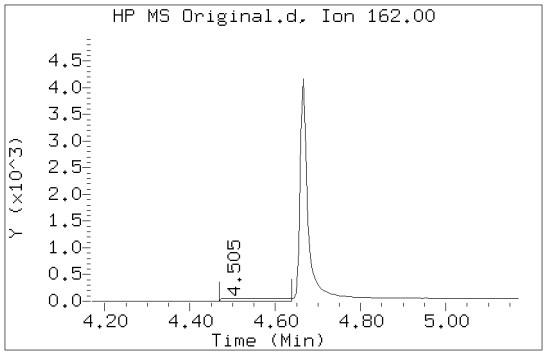
AFTER

MASS
164
AREA
5072
HEIGHT
4329
05-Jun-2024
11:49
ALSHS



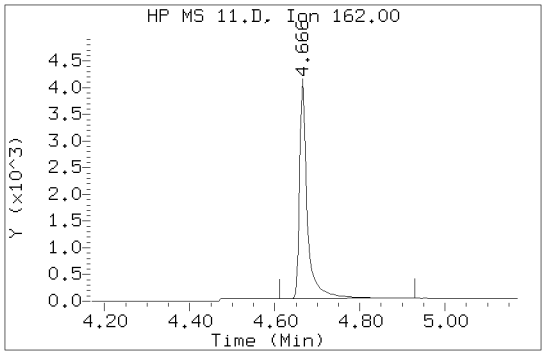
BEFORE

MASS
162
AREA
503
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



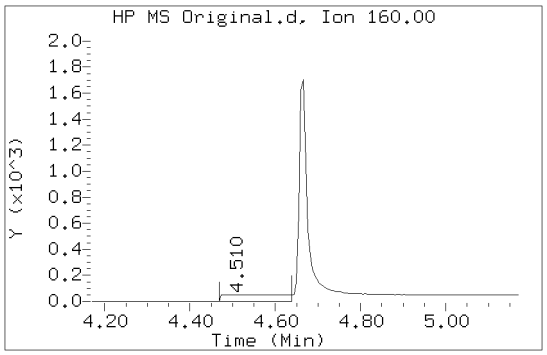
AFTER

MASS
162
AREA
5122
HEIGHT
4113
05-Jun-2024
11:49
ALSHS



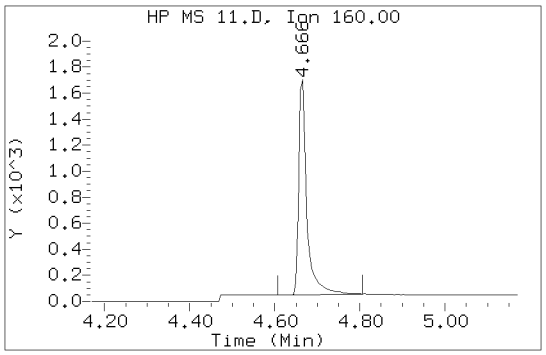
BEFORE

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
160
AREA
2174
HEIGHT
1653
05-Jun-2024
11:49
ALSHS

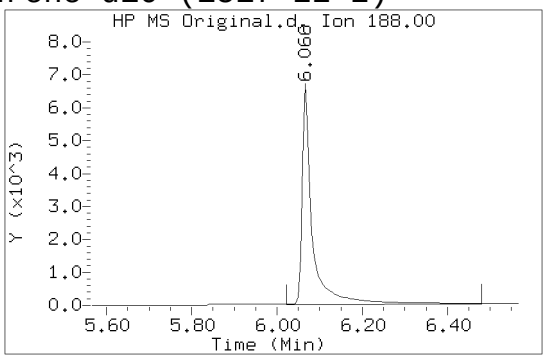


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

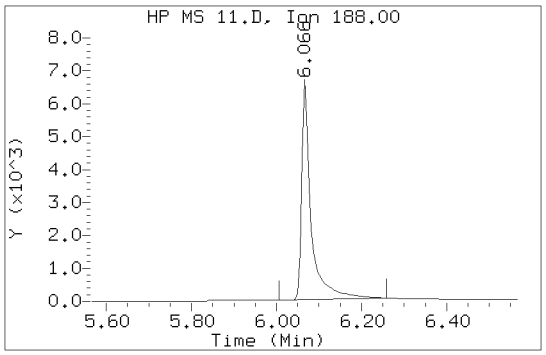
Phenanthrene-d10 (1517-22-2)

Reason Code:

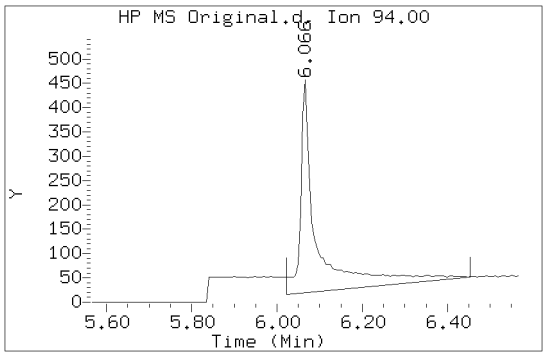
BEFORE
MASS
188
AREA
11412
HEIGHT
6713
18-Apr-2024
15:08
ALSHS
Server



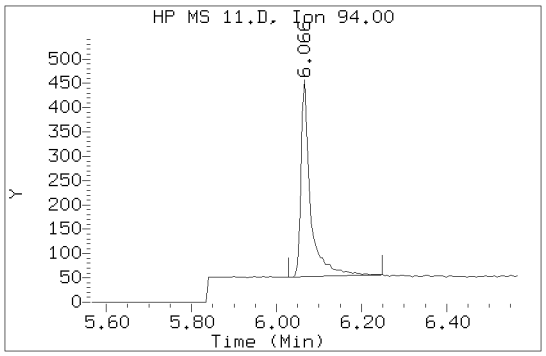
AFTER
MASS
188
AREA
10292
HEIGHT
6674
05-Jun-2024
11:49
ALSHS



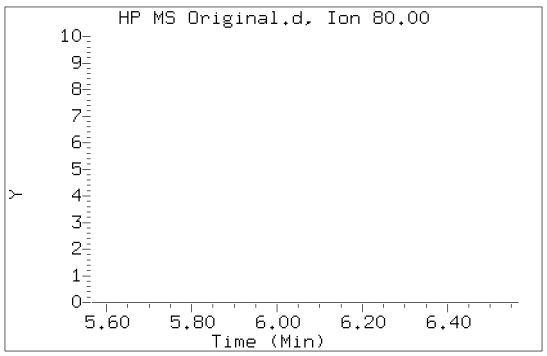
BEFORE
MASS
94
AREA
1149
HEIGHT
437
18-Apr-2024
15:08
ALSHS
Server



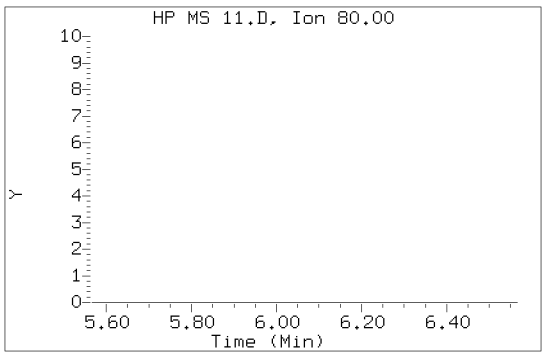
AFTER
MASS
94
AREA
624
HEIGHT
404
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



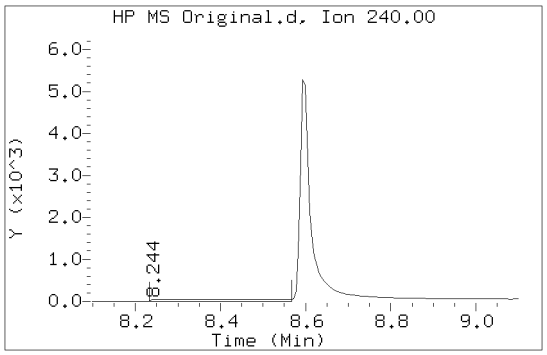
AFTER
MASS
80
AREA
0
HEIGHT
0
05-Jun-2024
11:49
ALSHS



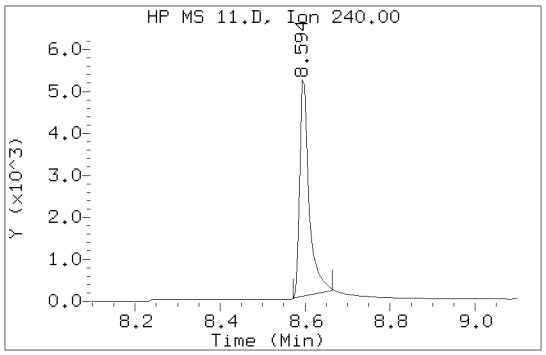
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
945
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
240
AREA
7884
HEIGHT
5168
05-Jun-2024
11:49
ALSHS

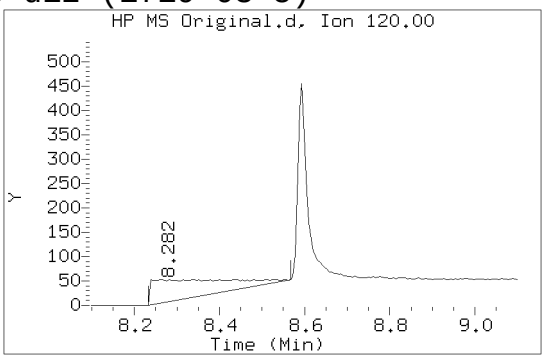


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

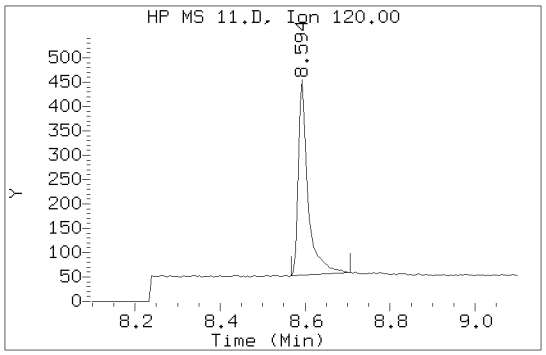
Chrysene-d12 (1719-03-5)

Reason Code:

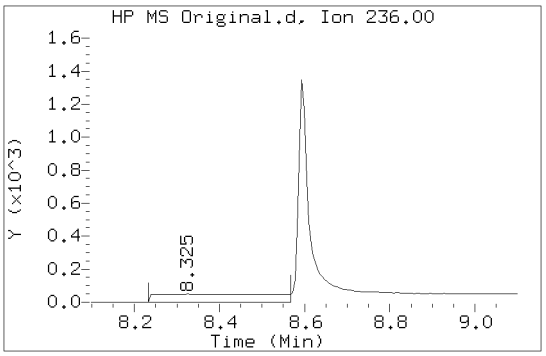
BEFORE
MASS
120
AREA
488
HEIGHT
45
18-Apr-2024
15:08
ALSHS
Server



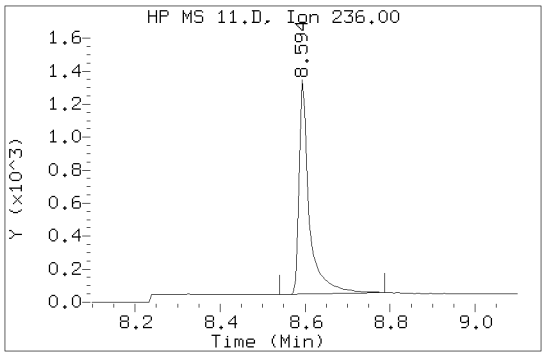
AFTER
MASS
120
AREA
625
HEIGHT
400
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
236
AREA
948
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



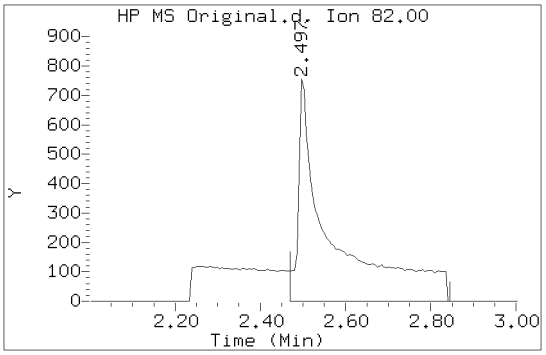
AFTER
MASS
236
AREA
2142
HEIGHT
1296
05-Jun-2024
11:49
ALSHS



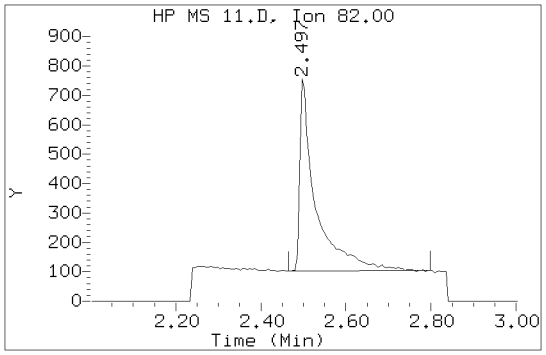
Nitrobenzene-d5 (4165-60-0)

Reason Code:

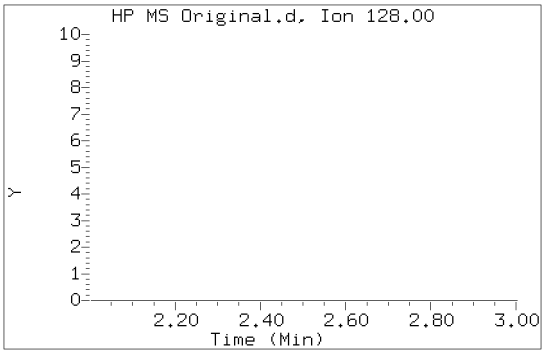
BEFORE
MASS
82
AREA
3957
HEIGHT
756
18-Apr-2024
15:08
ALSHS
Server



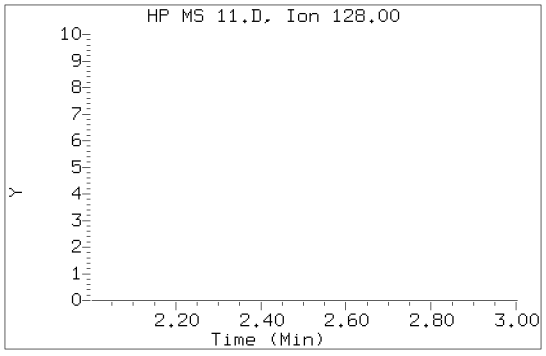
AFTER
MASS
82
AREA
1691
HEIGHT
653
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
05-Jun-2024
11:49
ALSHS



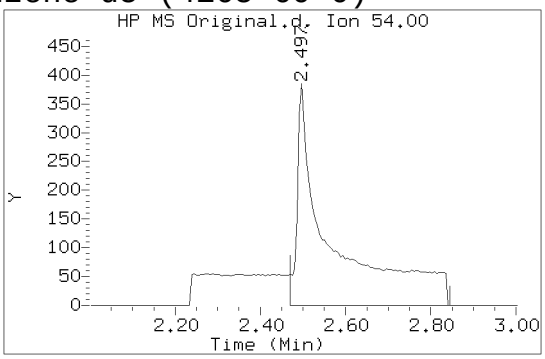
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

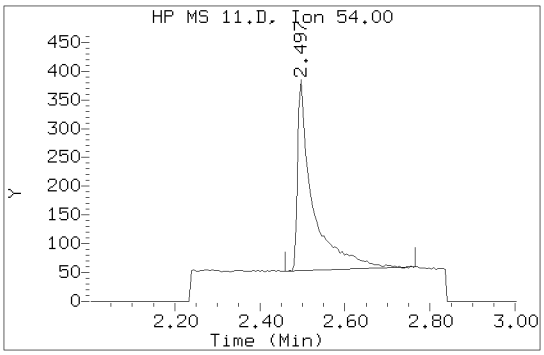
BEFORE

MASS
54
AREA
2061
HEIGHT
385
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
54
AREA
818
HEIGHT
332
05-Jun-2024
11:49
ALSHS

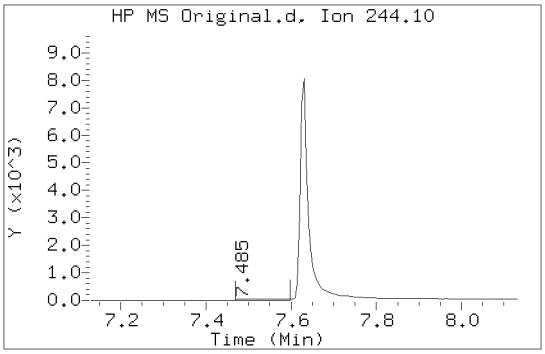


4-Terphenyl-d14 (1718-51-0)

Reason Code:

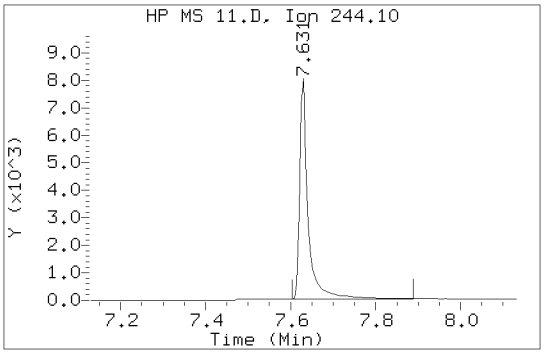
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



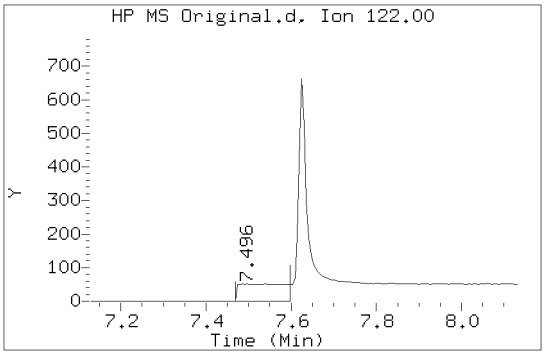
AFTER

MASS
244.1
AREA
11331
HEIGHT
8023
05-Jun-2024
11:49
ALSHS



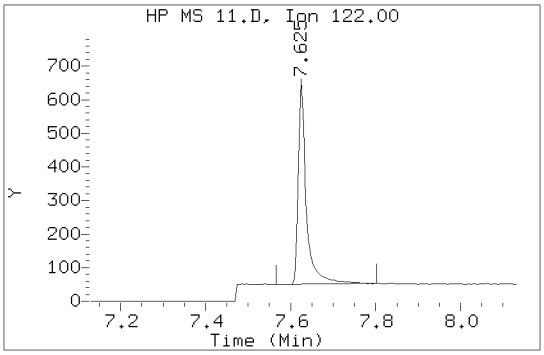
BEFORE

MASS
122
AREA
387
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



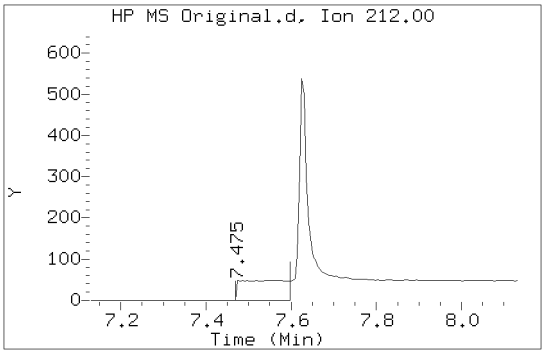
AFTER

MASS
122
AREA
801
HEIGHT
611
05-Jun-2024
11:49
ALSHS



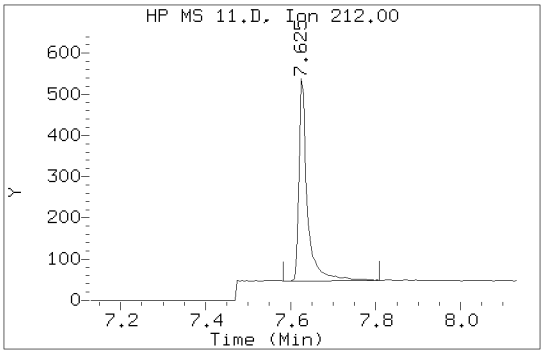
BEFORE

MASS
212
AREA
367
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
212
AREA
675
HEIGHT
490
05-Jun-2024
11:49
ALSHS



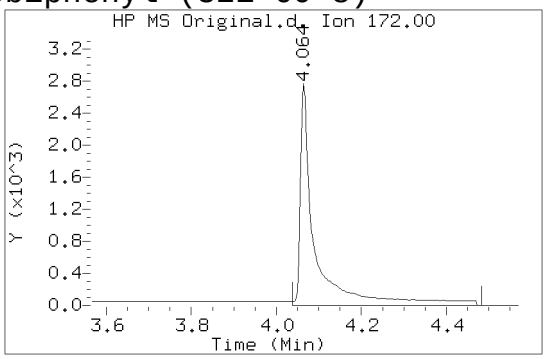
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

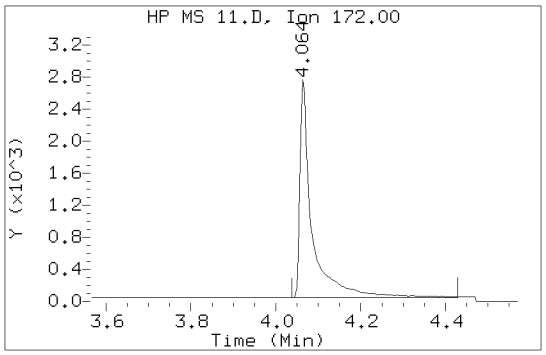
BEFORE

MASS
172
AREA
6739
HEIGHT
2770
18-Apr-2024
15:08
ALSHS
Server



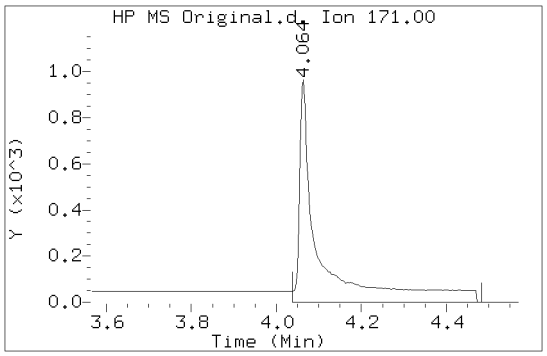
AFTER

MASS
172
AREA
5460
HEIGHT
2724
05-Jun-2024
11:49
ALSHS



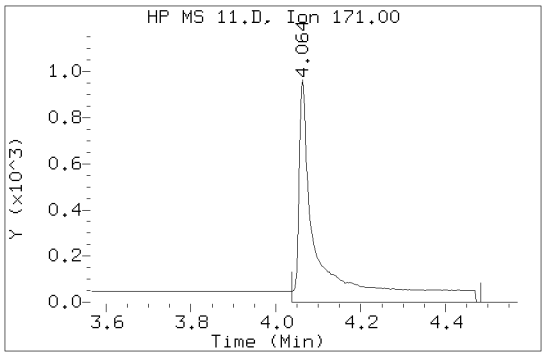
BEFORE

MASS
171
AREA
3102
HEIGHT
964
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
171
AREA
3102
HEIGHT
964
05-Jun-2024
11:49
ALSHS



HS24060795 - ME - HG_W_DODICP_W_DOD

ALS WO# HS24060795

ALS Houston, US

Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795
Start Date: 24-Jun-2024 End Date: 24-Jun-2024

Run ID:HG04_470273
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	24-Jun-2024 11:25	_8094599	HG
ICB	1	24-Jun-2024 11:27	_8094600	HG
CRA	1	24-Jun-2024 11:28	_8094601	HG
CCV 1	1	24-Jun-2024 11:31	_8094602	HG
CCB 1	1	24-Jun-2024 11:32	_8094603	HG
CCV 2	1	24-Jun-2024 11:58	_8094614	HG
CCB 2	1	24-Jun-2024 12:00	_8094615	HG
CCV 3	1	24-Jun-2024 12:25	_8094626	HG
CCB 3	1	24-Jun-2024 12:26	_8094627	HG
CCV 4	1	24-Jun-2024 12:53	_8094638	HG
CCB 4	1	24-Jun-2024 12:55	_8094639	HG
CCV 5	1	24-Jun-2024 13:19	_8094650	HG
CCB 5	1	24-Jun-2024 13:21	_8094651	HG
CCV 6	1	24-Jun-2024 13:40	_8094662	HG
CCB 6	1	24-Jun-2024 13:42	_8094663	HG
CCV 7	1	24-Jun-2024 14:05	_8094674	HG
CCB 7	1	24-Jun-2024 14:07	_8094675	HG
CCV 8	1	24-Jun-2024 14:34	_8094698	HG
CCB 8	1	24-Jun-2024 14:36	_8094699	HG
MBLK-214008	1	24-Jun-2024 14:42	_8094701	HG
LCS-214008	1	24-Jun-2024 14:44	_8094702	HG
ZZZZZZMS	1	24-Jun-2024 14:49	_8094705	HG
ZZZZZZMSD	1	24-Jun-2024 14:51	_8094706	HG
CCV 9	1	24-Jun-2024 15:00	_8094710	HG
CCB 9	1	24-Jun-2024 15:01	_8094711	HG
MW22_061224	1	24-Jun-2024 15:12	_8094716	HG
MW22_06224_a	1	24-Jun-2024 15:13	_8094717	HG
MW6_06224	1	24-Jun-2024 15:15	_8094718	HG
MW21_06224	1	24-Jun-2024 15:17	_8094719	HG
18CPTMW22SW_06224	1	24-Jun-2024 15:19	_8094720	HG
MW20_06224	1	24-Jun-2024 15:20	_8094721	HG
CCV 10	1	24-Jun-2024 15:30	_8094722	HG
CCB 10	1	24-Jun-2024 15:32	_8094723	HG
CCV 11	1	24-Jun-2024 15:53	_8094791	HG
CCB 11	1	24-Jun-2024 15:54	_8094792	HG
CRA	1	24-Jun-2024 15:56	_8094801	HG

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795
Start Date: 25-Jun-2024 End Date: 25-Jun-2024

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_470364_Tune	1	25-Jun-2024 00:00	ICPMS07_470364_Tune_1	
CAL BLK	1	25-Jun-2024 10:33	010CALB.d_8096746	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	25-Jun-2024 10:35	011CALS.d_8096747	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	25-Jun-2024 10:38	012CALS.d_8096748	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	25-Jun-2024 10:41	013CALS.d_8096749	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 10:43	014CALS.d_8096750	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	25-Jun-2024 10:46	015CALS.d_8096751	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 10:54	017CALS.d_8096753	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	25-Jun-2024 11:01	019_ICV.d_8096755	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	25-Jun-2024 11:06	021LCV2.d_8096757	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	25-Jun-2024 11:09	022LCV5.d_8096758	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	25-Jun-2024 11:13	024_ICB.d_8096760	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	25-Jun-2024 11:18	026ICSA.d_8096762	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	25-Jun-2024 11:21	027ICSB.d_8096763	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CAL BLK	1	25-Jun-2024 15:47	116CALB.d_8097895	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	25-Jun-2024 15:49	117CALS.d_8097896	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	25-Jun-2024 15:52	118CALS.d_8097897	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	25-Jun-2024 15:54	119CALS.d_8097898	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 15:57	120CALS.d_8097899	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	25-Jun-2024 15:59	121CALS.d_8097900	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	25-Jun-2024 16:11	125LCV2.d_8097904	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	25-Jun-2024 16:13	126LCV5.d_8097905	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCB 1	1	25-Jun-2024 16:15	127_ICB.d_8097906	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	25-Jun-2024 16:18	128_ICV.d_8097907	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	25-Jun-2024 16:29	130ICSA.d_8097918	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	25-Jun-2024 16:32	131ICSB.d_8097919	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	25-Jun-2024 16:42	134_CCV.d_8098136	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	25-Jun-2024 16:44	135_CCB.d_8098137	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-213798	1	25-Jun-2024 16:47	136SMPL.d_8098138	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-213798	1	25-Jun-2024 16:49	137SMPL.d_8098139	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE V ZN
ZZZZZZSD	5	25-Jun-2024 16:52	138SMPL.d_8098175	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V

ALS Houston, US

Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795
Start Date: 25-Jun-2024 End Date: 25-Jun-2024

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ZZZZZZMS	1	25-Jun-2024 16:56	140SMPL.d_8098177	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V
ZZZZZZMSD	1	25-Jun-2024 16:59	141SMPL.d_8098178	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V
ZZZZZZPDS	1	25-Jun-2024 17:01	142SMPL.d_8098179	AG AS BA BE CD CO CR CU FE K MG NI PB SB SE TL V
CCV 2	1	25-Jun-2024 17:06	144_CCV.d_8098241	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	25-Jun-2024 17:09	145_CCB.d_8098242	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-213798	1	25-Jun-2024 17:33	155SMPL.d_8098251	TL
CCB 4	1	25-Jun-2024 17:38	157_CCB.d_8098253	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	25-Jun-2024 17:52	160_CCV.d_8098256	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	25-Jun-2024 17:54	161_CCV.d_8098257	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MW22_061224	1	25-Jun-2024 17:56	162SMPL.d_8098353	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
MW22_06224_a	1	25-Jun-2024 17:59	163SMPL.d_8098354	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
MW6_06224	1	25-Jun-2024 18:01	164SMPL.d_8098355	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MW21_06224	1	25-Jun-2024 18:04	165SMPL.d_8098356	AG AL AS BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
18CPTMW22SW_06224	1	25-Jun-2024 18:06	166SMPL.d_8098357	AG AL AS BA BE CA CD CO CR CU FE MG MN NI PB SB SE TL V ZN
MW20_06224	1	25-Jun-2024 18:09	167SMPL.d_8098358	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 5	1	25-Jun-2024 18:22	172_CCV.d_8098363	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 5	1	25-Jun-2024 18:25	173_CCB.d_8098364	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZSD	10	25-Jun-2024 18:41	176SMPL.d_8098367	MN NA
ZZZZZZMS	2	25-Jun-2024 18:43	177SMPL.d_8098368	MN NA
ZZZZZZMSD	2	25-Jun-2024 18:46	178SMPL.d_8098369	MN NA
ZZZZZZPDS	2	25-Jun-2024 18:48	179SMPL.d_8098372	MN NA
CCV 6	1	25-Jun-2024 19:07	184_CCV.d_8098806	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 6	1	25-Jun-2024 19:10	185_CCB.d_8098807	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MW22_061224	20	25-Jun-2024 19:25	188SMPL.d_8098810	NA
MW22_06224_a	20	25-Jun-2024 19:27	189SMPL.d_8098811	NA
MW21_06224	20	25-Jun-2024 19:30	190SMPL.d_8098812	BA NA
18CPTMW22SW_06224	20	25-Jun-2024 19:32	191SMPL.d_8098813	K NA
CCV 7	1	25-Jun-2024 19:37	193_CCV.d_8098815	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 7	1	25-Jun-2024 19:39	194_CCB.d_8098816	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795
Start Date: 26-Jun-2024 End Date: 26-Jun-2024

Run ID:ICPMS07_470472
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_470472_Tune	1	26-Jun-2024 00:00	ICPMS07_470472_Tune_1	
CAL BLK	1	26-Jun-2024 10:42	010CALB.d_8099730	AL ZN
2/10/200	1	26-Jun-2024 10:44	011CALS.d_8099731	AL ZN
5/25/500	1	26-Jun-2024 10:47	012CALS.d_8099732	AL ZN
10/50/100	1	26-Jun-2024 10:50	013CALS.d_8099733	AL ZN
100/500/10K	1	26-Jun-2024 10:53	014CALS.d_8099734	AL ZN
200/1000/20K	1	26-Jun-2024 10:55	015CALS.d_8099735	AL ZN
100/500/10K	1	26-Jun-2024 11:06	018CALS.d_8099738	AL ZN
200/1000/20K	1	26-Jun-2024 11:09	019CALS.d_8099739	AL ZN
ICV	1	26-Jun-2024 11:15	021_ICV.d_8099741	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	26-Jun-2024 11:19	023LCV2.d_8099743	AL ZN
LLICV5	1	26-Jun-2024 11:22	024LCV5.d_8099744	AL ZN
ICB	1	26-Jun-2024 11:24	025_ICB.d_8099745	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	26-Jun-2024 11:31	027ICSA.d_8099755	AL ZN
ICSAB	1	26-Jun-2024 11:34	028ICSB.d_8099756	AL ZN
CCV 1	1	26-Jun-2024 11:52	033_CCV.d_8099811	AL ZN
CCB 1	1	26-Jun-2024 11:55	034_CCB.d_8099812	AL ZN
ZZZZZZSD	5	26-Jun-2024 12:15	041SMPL.d_8099862	AL ZN
ZZZZZZMS	1	26-Jun-2024 12:18	042SMPL.d_8099863	AL ZN
ZZZZZZMSD	1	26-Jun-2024 12:20	043SMPL.d_8099864	AL ZN
ZZZZZZPDS	1	26-Jun-2024 12:23	044SMPL.d_8099865	AL ZN
CCV 2	1	26-Jun-2024 12:33	046_CCV.d_8099902	AL ZN
CCB 2	1	26-Jun-2024 12:35	047_CCB.d_8099903	AL ZN

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: HG04_470273
Instrument: HG04
Method: SW7470A

ICV	Date: 24-Jun-2024 11:25		Seq: 8094599	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.09	102	90-110	

CCV1	Date: 24-Jun-2024 11:31		Seq: 8094602	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5	100	90-110	

CCV2	Date: 24-Jun-2024 11:58		Seq: 8094614	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.02	100	90-110	

CCV3	Date: 24-Jun-2024 12:25		Seq: 8094626	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

CCV4	Date: 24-Jun-2024 12:53		Seq: 8094638	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5	100	90-110	

CCV5	Date: 24-Jun-2024 13:19		Seq: 8094650	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV6	Date: 24-Jun-2024 13:40		Seq: 8094662	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.91	98	90-110	

CCV7	Date: 24-Jun-2024 14:05		Seq: 8094674	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.95	99	90-110	

CCV8	Date: 24-Jun-2024 14:34		Seq: 8094698	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

CCV9	Date: 24-Jun-2024 15:00		Seq: 8094710	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.85	97	90-110	

CCV10	Date: 24-Jun-2024 15:30		Seq: 8094722	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.86	97	90-110	

CCV11	Date: 24-Jun-2024 15:53		Seq: 8094791	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.81	96	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

ICV Date: 25-Jun-2024 11:01 Seq: 8096755 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.737	102	90-110	
Antimony	100	98.221	98	90-110	
Arsenic	100	98.763	99	90-110	
Barium	100	97.648	98	90-110	
Beryllium	100	95.306	95	90-110	
Cadmium	100	97.871	98	90-110	
Calcium	10000	9802.618	98	90-110	
Chromium	100	98.598	99	90-110	
Cobalt	100	98.666	99	90-110	
Copper	100	99.362	99	90-110	
Iron	10000	9861.289	99	90-110	
Lead	100	98.592	99	90-110	
Magnesium	10000	9883.176	99	90-110	
Manganese	100	97.656	98	90-110	
Nickel	100	99.46	100	90-110	
Potassium	10000	9921.599	99	90-110	
Selenium	100	97.877	98	90-110	
Silver	100	99.433	99	90-110	
Sodium	10000	9777.302	98	90-110	
Thallium	100	97.837	98	90-110	
Vanadium	100	98.092	98	90-110	
Zinc	100	99.966	100	90-110	

ICV Date: 25-Jun-2024 16:18 Seq: 8097907 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.7	102	90-110	
Antimony	100	99.177	99	90-110	
Arsenic	100	100.233	100	90-110	
Barium	100	98.472	99	90-110	
Beryllium	100	99.663	100	90-110	
Cadmium	100	98.208	98	90-110	
Calcium	10000	9861.725	99	90-110	
Chromium	100	100.212	100	90-110	
Cobalt	100	100.957	101	90-110	
Copper	100	100.887	101	90-110	
Iron	10000	10077.376	101	90-110	
Lead	100	98.36	98	90-110	
Magnesium	10000	10086.049	101	90-110	
Manganese	100	99.976	100	90-110	
Nickel	100	101.174	101	90-110	
Potassium	10000	10033.475	100	90-110	
Selenium	100	101.341	101	90-110	
Silver	100	99.246	99	90-110	
Sodium	10000	10020.113	100	90-110	
Thallium	100	98.785	99	90-110	
Vanadium	100	99.833	100	90-110	
Zinc	100	102.229	102	90-110	

CCV1 Date: 25-Jun-2024 16:42 Seq: 8098136 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.661	100	90-110	
Antimony	100	100.093	100	90-110	
Arsenic	100	99.895	100	90-110	
Barium	100	98.473	99	90-110	
Beryllium	100	100.052	100	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV1	Date: 25-Jun-2024 16:42		Seq: 8098136	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Cadmium	100	98.143	98	90-110	
Calcium	10000	9724.528	97	90-110	
Chromium	100	100.18	100	90-110	
Cobalt	100	101.461	101	90-110	
Copper	100	100.976	101	90-110	
Iron	10000	10111.096	101	90-110	
Lead	100	98.877	99	90-110	
Magnesium	10000	10025.231	100	90-110	
Manganese	100	98.574	99	90-110	
Nickel	100	100.915	101	90-110	
Potassium	10000	10028.992	100	90-110	
Selenium	100	99.498	100	90-110	
Silver	100	99.724	100	90-110	
Sodium	10000	9968.711	100	90-110	
Thallium	100	99.346	99	90-110	
Vanadium	100	99.859	100	90-110	
Zinc	100	101.242	101	90-110	

CCV2	Date: 25-Jun-2024 17:06		Seq: 8098241	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	97.872	98	90-110	
Antimony	100	96.741	97	90-110	
Arsenic	100	96.526	97	90-110	
Barium	100	96.245	96	90-110	
Beryllium	100	97.275	97	90-110	
Cadmium	100	96.019	96	90-110	
Calcium	10000	9436.495	94	90-110	
Chromium	100	96.516	97	90-110	
Cobalt	100	98.328	98	90-110	
Copper	100	97.409	97	90-110	
Iron	10000	9787.536	98	90-110	
Lead	100	96.434	96	90-110	
Magnesium	10000	9724.745	97	90-110	
Manganese	100	95.82	96	90-110	
Nickel	100	98.209	98	90-110	
Potassium	10000	9702.682	97	90-110	
Selenium	100	97.324	97	90-110	
Silver	100	97.527	98	90-110	
Sodium	10000	9703.901	97	90-110	
Thallium	100	96.511	97	90-110	
Vanadium	100	96.083	96	90-110	
Zinc	100	98.45	98	90-110	

CCV3	Date: 25-Jun-2024 17:52		Seq: 8098256	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	95.537	96	90-110	
Antimony	100	103.951	104	90-110	
Arsenic	100	97.384	97	90-110	
Barium	100	102.548	103	90-110	
Beryllium	100	100.967	101	90-110	
Cadmium	100	101.219	101	90-110	
Calcium	10000	9003.431	90	90-110	
Chromium	100	98.42	98	90-110	
Cobalt	100	100.127	100	90-110	
Copper	100	99.725	100	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV3	Date: 25-Jun-2024 17:52		Seq: 8098256	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Iron	10000	9429.504	94	90-110	
Lead	100	102.627	103	90-110	
Magnesium	10000	9246.09	93	90-110	
Manganese	100	97.305	97	90-110	
Nickel	100	99.279	99	90-110	
Potassium	10000	9209.335	92	90-110	
Selenium	100	100.034	100	90-110	
Silver	100	100.494	100	90-110	
Sodium	10000	9134.974	91	90-110	
Thallium	100	106.156	106	90-110	
Vanadium	100	98.163	98	90-110	
Zinc	100	99.11	99	90-110	

CCV4	Date: 25-Jun-2024 17:54		Seq: 8098257	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	98.933	99	90-110	
Antimony	100	106.238	106	90-110	
Arsenic	100	99.027	99	90-110	
Barium	100	102.938	103	90-110	
Beryllium	100	102.485	102	90-110	
Cadmium	100	103.567	104	90-110	
Calcium	10000	9248.044	93	90-110	
Chromium	100	99.401	99	90-110	
Cobalt	100	101.307	101	90-110	
Copper	100	101.821	102	90-110	
Iron	10000	9487.578	95	90-110	
Lead	100	103.679	104	90-110	
Magnesium	10000	9480.477	95	90-110	
Manganese	100	98.323	98	90-110	
Nickel	100	100.589	101	90-110	
Potassium	10000	9539.387	95	90-110	
Selenium	100	100.827	101	90-110	
Silver	100	102.702	103	90-110	
Sodium	10000	9343.703	93	90-110	
Thallium	100	107.679	108	90-110	
Vanadium	100	100.231	100	90-110	
Zinc	100	101.613	102	90-110	

CCV5	Date: 25-Jun-2024 18:22		Seq: 8098363	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	98.265	98	90-110	
Antimony	100	107.828	108	90-110	
Arsenic	100	99.941	100	90-110	
Barium	100	103.012	103	90-110	
Beryllium	100	102.052	102	90-110	
Cadmium	100	102.446	102	90-110	
Calcium	10000	9215.957	92	90-110	
Chromium	100	101.574	102	90-110	
Cobalt	100	102.382	102	90-110	
Copper	100	102.639	103	90-110	
Iron	10000	9627.994	96	90-110	
Lead	100	102.433	102	90-110	
Magnesium	10000	9426.381	94	90-110	
Manganese	100	99.289	99	90-110	
Nickel	100	101.173	101	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV5 Date: 25-Jun-2024 18:22 Seq: 8098363 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	9415.508	94	90-110	
Selenium	100	101.565	102	90-110	
Silver	100	102.055	102	90-110	
Sodium	10000	9295.562	93	90-110	
Thallium	100	105.893	106	90-110	
Vanadium	100	100.677	101	90-110	
Zinc	100	100.921	101	90-110	

CCV6 Date: 25-Jun-2024 19:07 Seq: 8098806 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.829	99	90-110	
Antimony	100	105.92	106	90-110	
Arsenic	100	99.555	100	90-110	
Barium	100	102.416	102	90-110	
Beryllium	100	103.294	103	90-110	
Cadmium	100	102.062	102	90-110	
Calcium	10000	9154.792	92	90-110	
Chromium	100	99.183	99	90-110	
Cobalt	100	101.235	101	90-110	
Copper	100	101.894	102	90-110	
Iron	10000	9483.686	95	90-110	
Lead	100	101.583	102	90-110	
Magnesium	10000	9412.361	94	90-110	
Manganese	100	98.55	99	90-110	
Nickel	100	101.102	101	90-110	
Potassium	10000	9373.544	94	90-110	
Selenium	100	100.185	100	90-110	
Silver	100	100.909	101	90-110	
Sodium	10000	9309.643	93	90-110	
Thallium	100	105.634	106	90-110	
Vanadium	100	99.303	99	90-110	
Zinc	100	101.532	102	90-110	

CCV7 Date: 25-Jun-2024 19:37 Seq: 8098815 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.134	99	90-110	
Antimony	100	107.32	107	90-110	
Arsenic	100	100.75	101	90-110	
Barium	100	102.687	103	90-110	
Beryllium	100	104.158	104	90-110	
Cadmium	100	102.609	103	90-110	
Calcium	10000	9359.178	94	90-110	
Chromium	100	100.437	100	90-110	
Cobalt	100	102.304	102	90-110	
Copper	100	102.677	103	90-110	
Iron	10000	9568.008	96	90-110	
Lead	100	101.885	102	90-110	
Magnesium	10000	9538.159	95	90-110	
Manganese	100	99.679	100	90-110	
Nickel	100	102.102	102	90-110	
Potassium	10000	9502.388	95	90-110	
Selenium	100	101.762	102	90-110	
Silver	100	100.744	101	90-110	
Sodium	10000	9486.946	95	90-110	
Thallium	100	105.725	106	90-110	

ALS Houston, US

Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV7 | Date: 25-Jun-2024 19:37 | Seq: 8098815 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Vanadium	100	100.93	101	90-110	
Zinc	100	101.864	102	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICV	Date: 26-Jun-2024 11:15		Seq: 8099741	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	99.81	100	90-110	
Zinc	100	102.9	103	90-110	

CCV1	Date: 26-Jun-2024 11:52		Seq: 8099811	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	99.47	100	90-110	
Zinc	100	100.642	101	90-110	

CCV2	Date: 26-Jun-2024 12:33		Seq: 8099902	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	104.669	105	90-110	
Zinc	100	103.778	104	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: HG04_470273
Instrument: HG04
Method: SW7470A

ICB	Date: 24-Jun-2024 11:27		Seq: 8094600	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB1	Date: 24-Jun-2024 11:32		Seq: 8094603	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB2	Date: 24-Jun-2024 12:00		Seq: 8094615	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB3	Date: 24-Jun-2024 12:26		Seq: 8094627	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB4	Date: 24-Jun-2024 12:55		Seq: 8094639	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB5	Date: 24-Jun-2024 13:21		Seq: 8094651	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB6	Date: 24-Jun-2024 13:42		Seq: 8094663	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB7	Date: 24-Jun-2024 14:07		Seq: 8094675	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB8	Date: 24-Jun-2024 14:36		Seq: 8094699	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

MBLK-214008	Date: 24-Jun-2024 14:42		Seq: 8094701	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB9	Date: 24-Jun-2024 15:01		Seq: 8094711	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB10	Date: 24-Jun-2024 15:32		Seq: 8094723	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB11	Date: 24-Jun-2024 15:54		Seq: 8094792	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 25-Jun-2024 11:13	Seq: 8096760	ICB	Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Aluminum	2.696	1.8	10	J
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	69.22	34	500	J
Chromium	5	0.4	5	U
Cobalt	5	0.1	5	U
Copper	5	1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	-31.07	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

ICCB1	Date: 25-Jun-2024 16:15	Seq: 8097906	CCB	Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Aluminum	2.058	1.8	10	J
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	42.64	34	500	J
Chromium	5	0.4	5	U
Cobalt	5	0.1	5	U
Copper	5	1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	-56.34	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

CCB2	Date: 25-Jun-2024 16:44	Seq: 8098137	CCB	Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Aluminum	10	1.8	10	U
Antimony	2	0.4	2	U
Arsenic	2	0.4	2	U
Barium	4	1.9	4	U
Beryllium	2	0.2	2	U

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 25-Jun-2024 16:44		Seq: 8098137	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.483	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-81.6	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-213798	Date: 25-Jun-2024 16:47		Seq: 8098138	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB3	Date: 25-Jun-2024 17:09		Seq: 8098242	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.466	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB3	Date: 25-Jun-2024 17:09		Seq: 8098242	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-56.58	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 25-Jun-2024 17:38		Seq: 8098253	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.494	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 25-Jun-2024 18:25		Seq: 8098364	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.456	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB5	Date: 25-Jun-2024 18:25		Seq: 8098364	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-57.33	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB6	Date: 25-Jun-2024 19:10		Seq: 8098807	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.43	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-64.93	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB7	Date: 25-Jun-2024 19:39		Seq: 8098816	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.459	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-62.13	14	200	J	
Thallium	2	0.2	2	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB7 Date: 25-Jun-2024 19:39 Seq: 8098816 CCB Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 26-Jun-2024 11:24		Seq: 8099745	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	3.346	1.8	10	J	
Zinc	5	2	5	U	
CCB1	Date: 26-Jun-2024 11:55		Seq: 8099812	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	5.124	1.8	10	J	
Zinc	3.089	2	4	J	
CCB2	Date: 26-Jun-2024 12:35		Seq: 8099903	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	2.554	1.8	10	J	
Zinc	4	2	4	U	

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS07_470364
Project: LHAAP 18 24 Instrument:ICPMS07
WorkOrder: HS24060795 Method:SW6020A

ICSA	Date: 25-Jun-2024 11:18	Seq: 8096762	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	98850	98.9	
Antimony		0.072	0	
Arsenic		0.362	0	
Barium		0.556	0	
Beryllium		0.03	0	
Cadmium		0.793	0	
Calcium	100000	98040	98.0	
Chromium		0.808	0	
Cobalt		0.956	0	
Copper		0.69	0	
Iron	100000	96530	96.5	
Lead		0.863	0	
Magnesium	100000	97060	97.1	
Manganese		1.726	0	
Nickel		1.007	0	
Potassium	100000	97960	98.0	
Selenium		0.024	0	
Silver		0.046	0	
Sodium	100000	98280	98.3	
Thallium		0.008	0	
Vanadium		0.211	0	
Zinc		3.182	0	

ICSAB	Date: 25-Jun-2024 11:21	Seq: 8096763	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	101100	101	
Antimony	100	99.77	99.8	
Arsenic	100	103.3	103	
Barium	100	102.8	103	
Beryllium	100	87.55	87.6	
Cadmium	100	98.96	99.0	
Calcium	110000	110000	100.0	
Chromium	100	101.1	101	
Cobalt	100	99.03	99.0	
Copper	100	96.24	96.2	
Iron	110000	109100	99.1	
Lead	100	103.6	104	
Magnesium	110000	109000	99.1	
Manganese	100	100.4	100	
Nickel	100	95.96	96.0	
Potassium	110000	111200	101	
Selenium	100	102.6	103	
Silver	100	98.92	98.9	
Sodium	110000	110900	101	
Thallium	100	101.8	102	
Vanadium	100	102.3	102	
Zinc	100	100.2	100	

ICSA	Date: 25-Jun-2024 16:29	Seq: 8097918	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	104000	104	
Antimony		0.146	0	
Arsenic		0.371	0	
Barium		0.439	0	

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 25-Jun-2024 16:29	Seq: 8097918	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Beryllium		0.026	0	
Cadmium		0.735	0	
Calcium	100000	99410	99.4	
Chromium		0.806	0	
Cobalt		1.01	0	
Copper		0.708	0	
Iron	100000	98350	98.3	
Lead		0.874	0	
Magnesium	100000	98850	98.8	
Manganese		1.81	0	
Nickel		0.998	0	
Potassium	100000	101200	101	
Selenium		0.151	0	
Silver		0.025	0	
Sodium	100000	99970	100.0	
Thallium		0.006	0	
Vanadium		0.267	0	
Zinc		2.944	0	

ICSAB	Date: 25-Jun-2024 16:32	Seq: 8097919	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	98710	98.2	
Antimony	100	101.2	101	
Arsenic	100	100.3	100	
Barium	100	102.8	103	
Beryllium	100	96.89	96.9	
Cadmium	100	100.1	100	
Calcium	110000	104700	95.2	
Chromium	100	97.58	97.6	
Cobalt	100	96.53	96.5	
Copper	100	93.87	93.9	
Iron	110000	104900	95.3	
Lead	100	103.3	103	
Magnesium	110000	104400	95.0	
Manganese	100	97.5	97.5	
Nickel	100	94.09	94.1	
Potassium	110000	105900	96.3	
Selenium	100	102.8	103	
Silver	100	98.54	98.5	
Sodium	110000	105800	96.1	
Thallium	100	97.34	97.3	
Vanadium	100	99.39	99.4	
Zinc	100	98.54	98.5	

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICSA	Date: 26-Jun-2024 11:31	Seq: 8099755	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	107500	107	
Zinc		3.199	0	

ICSAB	Date: 26-Jun-2024 11:34	Seq: 8099756	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	105900	105	
Zinc	100	105.9	106	

ALS Houston, US

Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Date Analyzed: 24-Jun-2024 14:51
Date Extracted: 24-Jun-2024 09:00
Units: ug/L

Matrix Spike: HS24060694-02MS
Client Sample ID:

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	4.760	5.000	94.9	4.690	5.000	93.5	82-119	1.48	20

ALS Houston, US Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Date Analyzed: 25-Jun-2024 16:59
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Matrix Spike: HS24060694-01MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Antimony	5.000	49.64	50.00	98.7	49.77	50.00	98.9	85-117	0.243	20
Arsenic	5.000	49.35	50.00	98.0	49.62	50.00	98.6	84-116	0.538	20
Barium	199.4	244.3	50.00	89.7	243.8	50.00	88.6	86-114	0.211	20
Beryllium	2.000	48.89	50.00	97.7	49.08	50.00	98.1	83-121	0.378	20
Cadmium	2.000	48.23	50.00	96.2	48.43	50.00	96.6	87-115	0.422	20
Calcium	16200	20760	5000	91.3	20950	5000	95.0	87-118	0.884	20
Chromium	1.750	48.65	50.00	93.8	48.85	50.00	94.2	85-116	0.404	20
Cobalt	0.9010	48.27	50.00	94.7	48.79	50.00	95.8	86-115	1.07	20
Copper	1.140	48.62	50.00	95.0	48.90	50.00	95.5	85-118	0.574	20
Iron	221.7	5025	5000	96.1	5078	5000	97.1	87-118	1.06	20
Lead	5.000	48.03	50.00	95.9	48.29	50.00	96.4	88-115	0.538	20
Magnesium	8499	13190	5000	93.8	13310	5000	96.2	83-118	0.900	20
Nickel	4.569	50.24	50.00	91.3	50.52	50.00	91.9	85-117	0.572	20
Potassium	1123	5948	5000	96.5	5971	5000	96.9	87-115	0.382	20
Selenium	5.000	49.35	50.00	98.1	50.66	50.00	101	80-120	2.62	20
Silver	5.000	47.55	50.00	95.0	47.65	50.00	95.2	85-116	0.208	20
Thallium	2.000	41.75	50.00	83.5	42.49	50.00	85.0	82-116	1.76	20
Vanadium	1.125	48.94	50.00	95.6	49.03	50.00	95.8	86-115	0.171	20
Manganese	203.5	239.2	50.00	71.5	237.5	50.00	68.0	87-115	0.730	20
Sodium	180200	179500	5000	-14.1	178000	5000	-43.0	85-117	0.809	20

ALS Houston, US

Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Date Analyzed: 26-Jun-2024 12:20
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Matrix Spike: HS24060694-01MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	2.952	117.3	100.0	114	114.3	100.0	111	84-117	2.55	20
Zinc	4.939	118.7	100.0	114	117.5	100.0	113	83-119	1.03	20

ALS Houston, US Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Date Analyzed: 25-Jun-2024 17:01
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Antimony	0	93.99	100	94	80-120
Arsenic	0	94.35	100	94	80-120
Barium	199.4	282.3	100	83	80-120
Beryllium	0	92.6	100	93	80-120
Cadmium	0	92.98	100	93	80-120
Chromium	1.75	92.46	100	91	80-120
Cobalt	0.901	92.98	100	92	80-120
Copper	1.14	92.5	100	91	80-120
Iron	221.7	9522	10000	93	80-120
Lead	0	93.22	100	93	80-120
Magnesium	8499	17230	10000	87	80-120
Nickel	4.569	93.41	100	89	80-120
Potassium	1123	10320	10000	92	80-120
Selenium	0	93.83	100	94	80-120
Silver	0	94.78	100	95	80-120
Thallium	0	93.04	100	93	80-120
Vanadium	1.125	93.18	100	92	80-120
Manganese	203.5	283.8	100	80	80-120
Sodium	180200	180900	10000	7	80-120

ALS Houston, US

Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Date Analyzed: 26-Jun-2024 12:23
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	2.952	112.9	100	110	80-120
Zinc	4.939	115.9	100	111	80-120

ALS Houston, US

Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Date Analyzed: 24-Jun-2024 14:44
Date Extracted: 24-Jun-2024 09:00
Units: ug/L

Lab Sample ID: LCS-214008
Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.94	99	82-119

ALS Houston, US

Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Date Analyzed: 25-Jun-2024 16:49
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: LCS-213798
Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	105.2	105	84-117
Antimony	50	48.71	97	85-117
Arsenic	50	47.17	94	84-116
Barium	50	46.74	94	86-114
Beryllium	50	46.51	93	83-121
Cadmium	50	46.53	93	87-115
Calcium	5000	4767	95	87-118
Chromium	50	47.17	94	85-116
Cobalt	50	47.62	95	86-115
Copper	50	47.83	96	85-118
Iron	5000	4812	96	87-118
Lead	50	46.43	93	88-115
Magnesium	5000	4807	96	83-118
Manganese	50	49.1	98	87-115
Nickel	50	48.37	97	85-117
Potassium	5000	4747	95	87-115
Selenium	50	47.19	94	80-120
Silver	50	47.93	96	85-116
Sodium	5000	4680	94	85-117
Vanadium	50	46.34	93	86-115
Zinc	50	55.09	110	83-119
Thallium	50	44.52	89	82-116

ALS Houston, US

Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Date Analyzed: 25-Jun-2024 16:52
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	199.4		198.4		1	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	16200		16250		0	
Chromium	1.75	J	0	U	0	
Cobalt	0.901	J	0.932	J	3	
Copper	1.14	J	0	U	0	
Iron	221.7		228.5	J	3	
Lead	0	U	0	U	0	
Magnesium	8499		8733		3	
Nickel	4.569	J	4.624	J	1	
Potassium	1123		1108		1	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	
Thallium	0	U	0	U	0	
Vanadium	1.125	J	0	U	0	
Manganese	203.5		206.4		1	
Sodium	180200		181900		1	

ALS Houston, US Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060795

Date Analyzed: 26-Jun-2024 12:15
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01SD
Client Sample ID:

Analysis Method: SW6020A

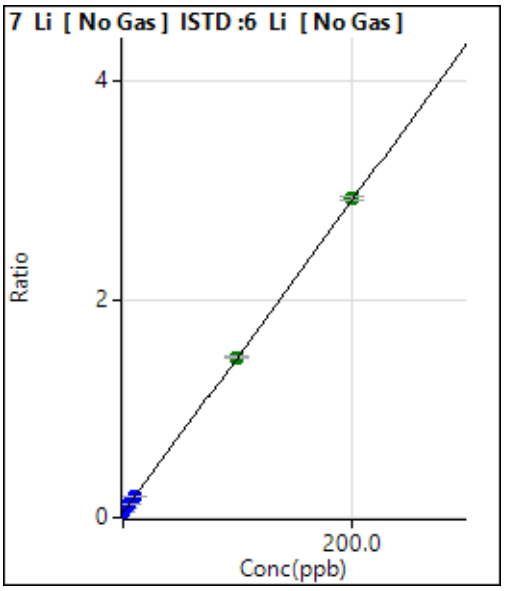
Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	2.952	J	0	U	0	
Zinc	4.939	J	0	U	0	

Calibration for 218_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	211CALB.d	CAL BLK	6/25/2024 8:21:55 PM
2	212CALS.d	2/10/200	6/25/2024 8:24:25 PM
3	213CALS.d	5/25/500	6/25/2024 8:26:55 PM
4	214CALS.d	10/50/100	6/25/2024 8:29:25 PM
5	215CALS.d	100/500/10K	6/25/2024 8:31:54 PM
6	216CALS.d	200/1000/20K	6/25/2024 8:34:24 PM

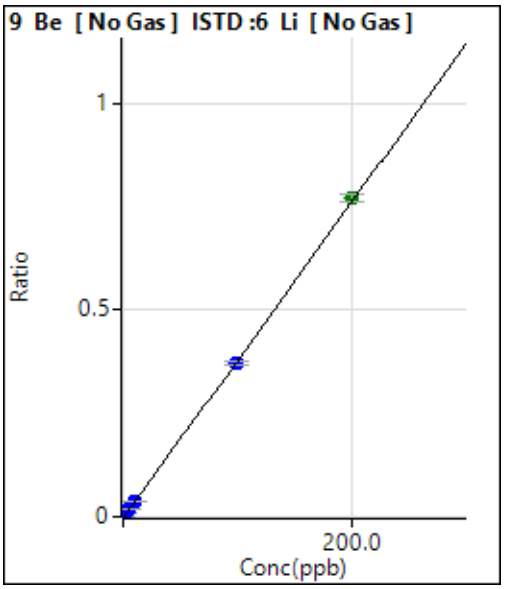
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	84075.92	0.0587	P	0.7	
2	☐	2.000	1.931	122682.61	0.0862	P	0.3	-3.5
3	☐	5.000	4.859	180022.05	0.1281	P	0.7	-2.8
4	☐	10.000	9.705	273098.89	0.1973	P	1.4	-3.0
5	☐	100.000	98.714	1898700.80	1.4688	A	1.9	-1.3
6	☐	200.000	200.662	3626143.70	2.9251	A	1.6	0.3

y = 0.0143 * x + 0.0587
R = 1.0000
DL = 0.08043 ppb
BEC = 4.107 ppb

Weight: <None>
Min Conc: <None>

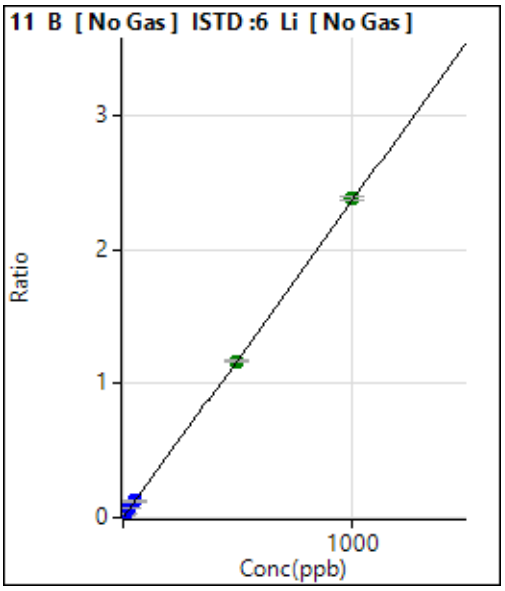


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	216.67	0.0002	P	14.3	
2	☐	2.000	1.859	10337.14	0.0073	P	3.3	-7.0
3	☐	5.000	4.767	25853.50	0.0184	P	0.7	-4.7
4	☐	10.000	9.536	50723.24	0.0366	P	1.8	-4.6
5	☐	100.000	96.834	479238.31	0.3707	P	2.3	-3.2
6	☐	200.000	201.613	956650.56	0.7717	A	2.3	0.8

y = 0.0038 * x + 1.5114E-004
R = 0.9998
DL = 0.01695 ppb
BEC = 0.03949 ppb

Weight: <None>
Min Conc: <None>

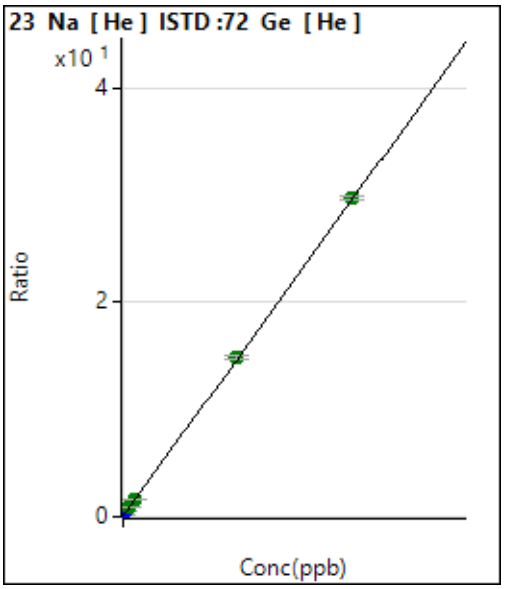
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15015.07	0.0105	P	1.8	
2	☐	10.000	9.482	46721.45	0.0328	P	1.5	-5.2
3	☐	25.000	23.300	91983.59	0.0654	P	0.9	-6.8
4	☐	50.000	47.271	168848.65	0.1220	P	1.9	-5.5
5	☐	500.000	490.205	1508411.28	1.1669	A	1.4	-2.0
6	☐	1000.000	1005.082	2952235.27	2.3815	A	1.5	0.5

y = 0.0024 * x + 0.0105
R = 0.9999
DL = 0.2367 ppb
BEC = 4.441 ppb

Weight: <None>
Min Conc: <None>

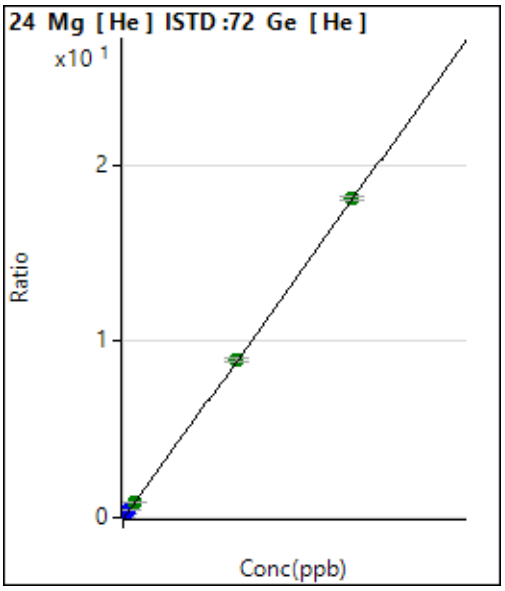


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246522.24	0.2094	P	0.5	
2	☐	200.000	177.215	556826.78	0.4703	P	1.5	-11.4
3	☐	500.000	468.746	1061610.14	0.8997	A	1.9	-6.3
4	☐	1000.000	979.302	1920986.32	1.6515	A	2.2	-2.1
5	☐	10000.00	9928.841	16887564.33	14.8311	A	2.6	-0.7
6	☐	20000.00	20037.62	32998102.01	29.7179	A	0.6	0.2

y = 0.0015 * x + 0.2094
R = 1.0000
DL = 1.963 ppb
BEC = 142.2 ppb

Weight: <None>
Min Conc: <None>

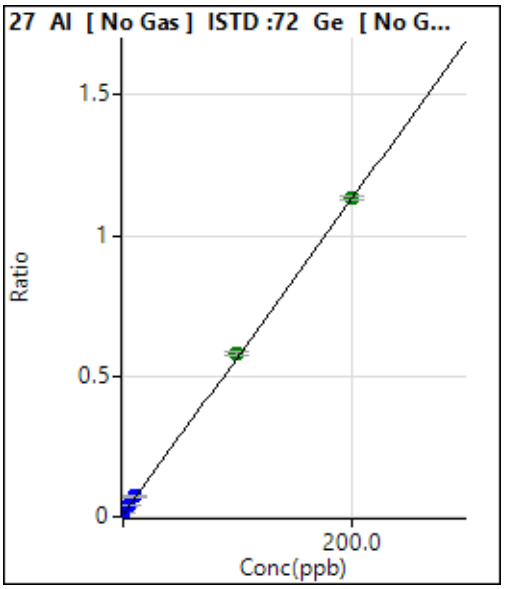
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1023.39	0.0009	P	13.8	
2	☐	200.000	190.730	205362.23	0.1735	P	1.1	-4.6
3	☐	500.000	478.958	512473.70	0.4343	P	2.0	-4.2
4	☐	1000.000	997.121	1050512.09	0.9032	A	2.5	-0.3
5	☐	10000.00	9944.357	10247370.68	8.9994	A	2.3	-0.6
6	☐	20000.00	20028.58	20125391.79	18.1246	A	0.9	0.1

y = 9.0489E-004 * x + 8.6956E-004
R = 1.0000
DL = 0.3972 ppb
BEC = 0.961 ppb

Weight: <None>
Min Conc: <None>

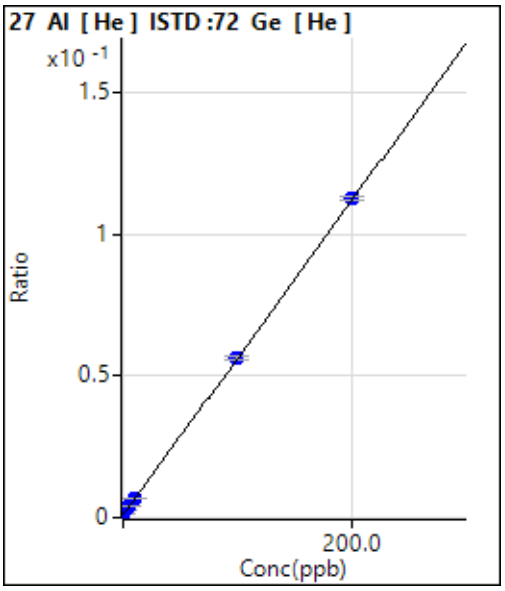


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55318.96	0.0135	P	1.8	
2	☐	2.000	3.183	129067.56	0.0314	P	1.6	59.1
3	☐	5.000	5.171	174084.36	0.0425	P	2.9	3.4
4	☐	10.000	10.458	292011.10	0.0722	P	1.5	4.6
5	☐	100.000	100.581	2240726.01	0.5778	A	2.3	0.6
6	☐	200.000	199.670	4346690.14	1.1337	A	0.9	-0.2

y = 0.0056 * x + 0.0135
R = 1.0000
DL = 0.131 ppb
BEC = 2.405 ppb

Weight: <None>
Min Conc: <None>

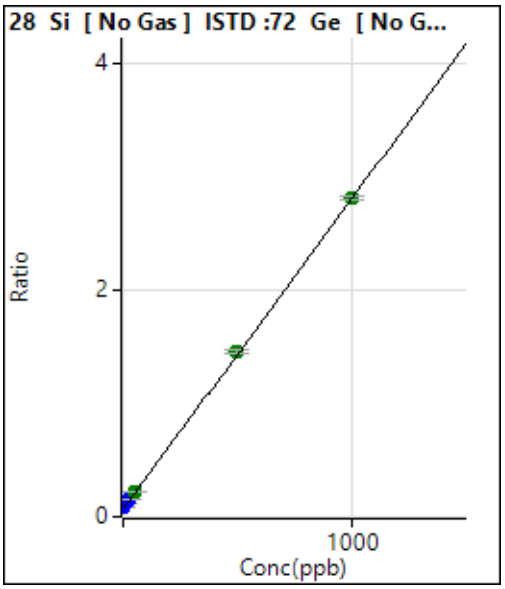
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.13	0.0014	P	6.8	
2	☐	2.000	2.668	3463.82	0.0029	P	1.0	33.4
3	☐	5.000	5.013	4990.97	0.0042	P	3.5	0.3
4	☐	10.000	10.037	8162.51	0.0070	P	2.8	0.4
5	☐	100.000	99.145	64330.56	0.0565	P	2.0	-0.9
6	☐	200.000	200.418	125172.48	0.1127	P	1.0	0.2

y = 5.5526E-004 * x + 0.0014
R = 1.0000
DL = 0.5323 ppb
BEC = 2.601 ppb

Weight: <None>
Min Conc: <None>

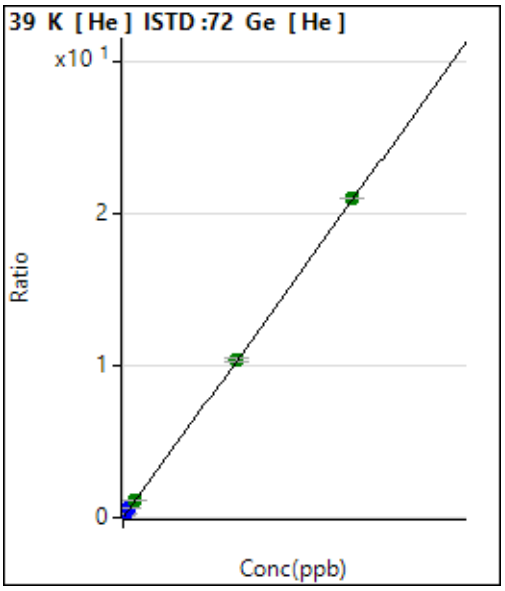


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	332308.51	0.0811	P	0.2	
2	☐	10.000	11.804	466731.36	0.1134	P	1.0	18.0
3	☐	25.000	27.593	641330.07	0.1566	P	0.7	10.4
4	☐	50.000	51.276	895774.07	0.2214	A	1.6	2.6
5	☐	500.000	503.803	5660879.29	1.4598	A	2.7	0.8
6	☐	1000.000	997.952	10781099.42	2.8120	A	1.0	-0.2

y = 0.0027 * x + 0.0811
R = 1.0000
DL = 0.193 ppb
BEC = 29.62 ppb

Weight: <None>
Min Conc: <None>

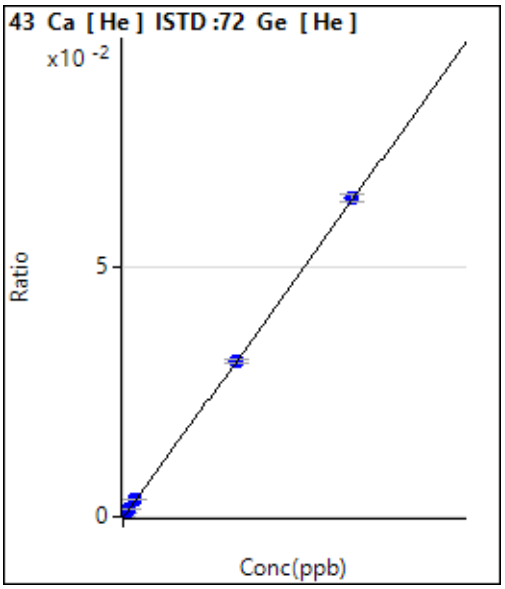
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	116935.82	0.0993	P	0.5	
2	☐	200.000	189.748	351277.07	0.2967	P	1.7	-5.1
3	☐	500.000	480.170	706757.41	0.5989	P	1.2	-4.0
4	☐	1000.000	993.223	1317504.72	1.1327	A	2.1	-0.7
5	☐	10000.00	9867.896	11804115.24	10.3664	A	2.1	-1.3
6	☐	20000.00	20066.98	23293283.82	20.9781	A	0.4	0.3

y = 0.0010 * x + 0.0993
R = 1.0000
DL = 1.34 ppb
BEC = 95.45 ppb

Weight: <None>
Min Conc: <None>

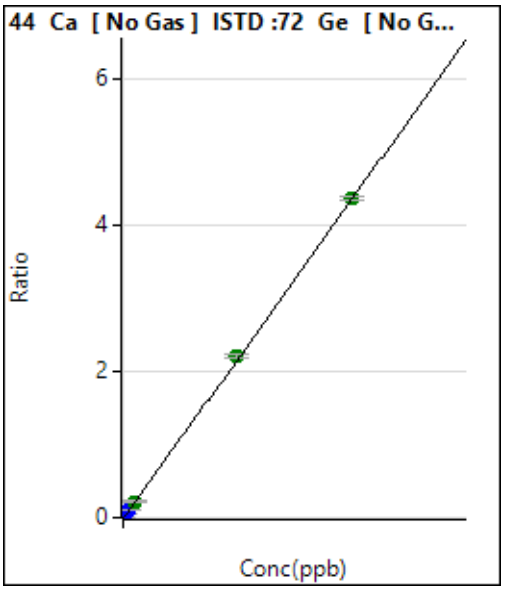


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0000	P	10.4	
2	☐	200.000	206.424	833.37	0.0007	P	6.8	3.2
3	☐	500.000	476.099	1843.51	0.0016	P	6.6	-4.8
4	☐	1000.000	1070.146	4010.65	0.0034	P	5.2	7.0
5	☐	10000.00	9820.201	35595.90	0.0313	P	2.8	-1.8
6	☐	20000.00	20086.92	70940.30	0.0639	P	1.8	0.4

y = 3.1782E-006 * x + 4.8134E-005
R = 0.9999
DL = 4.741 ppb
BEC = 15.14 ppb

Weight: <None>
Min Conc: <None>

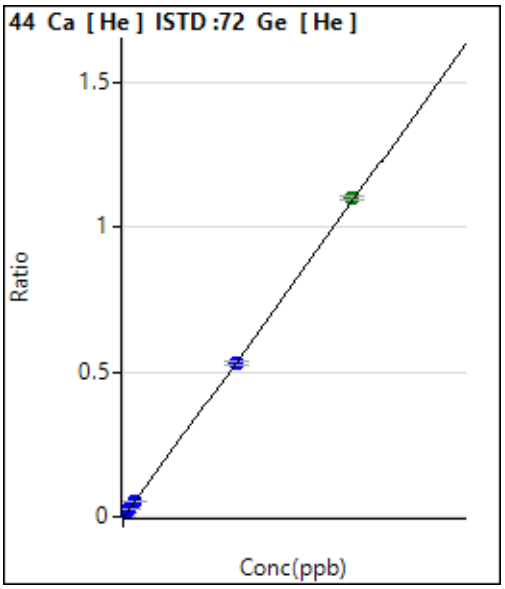
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18676.19	0.0046	P	0.6	
2	☐	200.000	210.423	208174.26	0.0506	P	2.1	5.2
3	☐	500.000	501.435	467758.65	0.1142	P	1.6	0.3
4	☐	1000.000	996.489	900106.37	0.2225	A	1.7	-0.4
5	☐	10000.00	10043.83	8534890.08	2.2009	A	2.5	0.4
6	☐	20000.00	19978.11	16766485.17	4.3732	A	0.9	-0.1

y = 2.1867E-004 * x + 0.0046
R = 1.0000
DL = 0.3469 ppb
BEC = 20.84 ppb

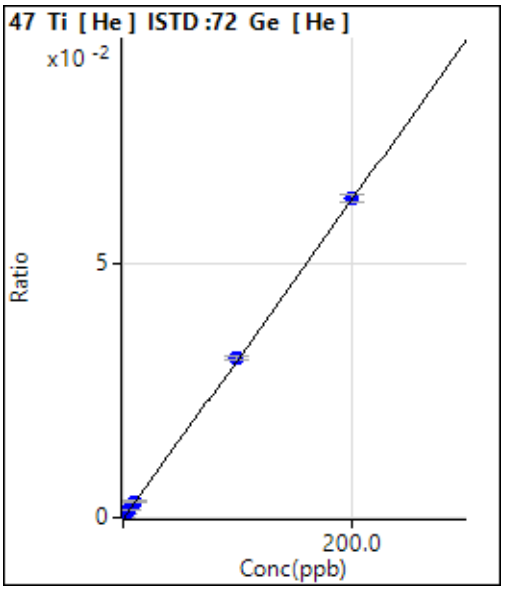
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	736.70	0.0006	P	12.9	
2	☐	200.000	193.391	13243.12	0.0112	P	0.7	-3.3
3	☐	500.000	477.192	31486.01	0.0267	P	1.5	-4.6
4	☐	1000.000	983.759	63210.00	0.0543	P	1.3	-1.6
5	☐	10000.00	9676.944	602399.91	0.5290	P	2.3	-3.2
6	☐	20000.00	20162.97	1223248.71	1.1016	A	1.1	0.8

y = 5.4605E-005 * x + 6.2601E-004
R = 0.9998
DL = 4.436 ppb
BEC = 11.46 ppb

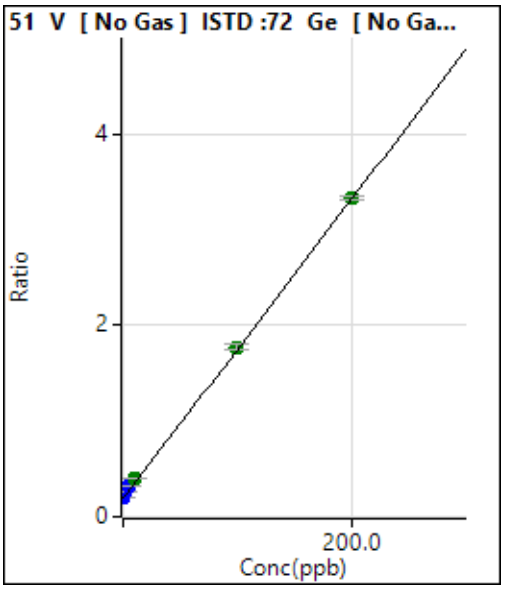
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	1.999	756.70	0.0006	P	12.6	0.0
3	☐	5.000	4.985	1860.16	0.0016	P	2.8	-0.3
4	☐	10.000	10.035	3673.88	0.0032	P	12.3	0.3
5	☐	100.000	99.730	35649.18	0.0313	P	2.6	-0.3
6	☐	200.000	200.134	69751.44	0.0628	P	2.0	0.1

y = 3.1381E-004 * x + 1.1279E-005
R = 1.0000
DL = 0.09338 ppb
BEC = 0.03594 ppb

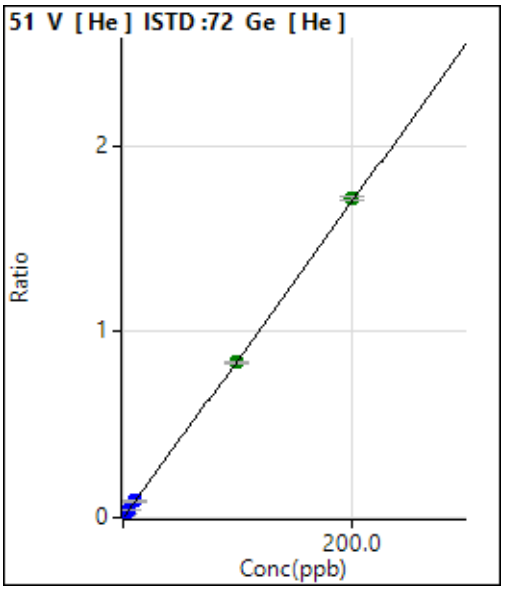
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	845280.58	0.2062	P	3.2	
2	☐	2.000	3.177	1053915.24	0.2560	P	0.6	58.9
3	☐	5.000	7.077	1298931.12	0.3171	P	1.2	41.5
4	☐	10.000	12.926	1654252.48	0.4088	A	0.2	29.3
5	☐	100.000	100.261	6895476.17	1.7781	A	2.5	0.3
6	☐	200.000	199.660	12791592.73	3.3365	A	1.3	-0.2

y = 0.0157 * x + 0.2062
R = 0.9999
DL = 1.28 ppb
BEC = 13.15 ppb

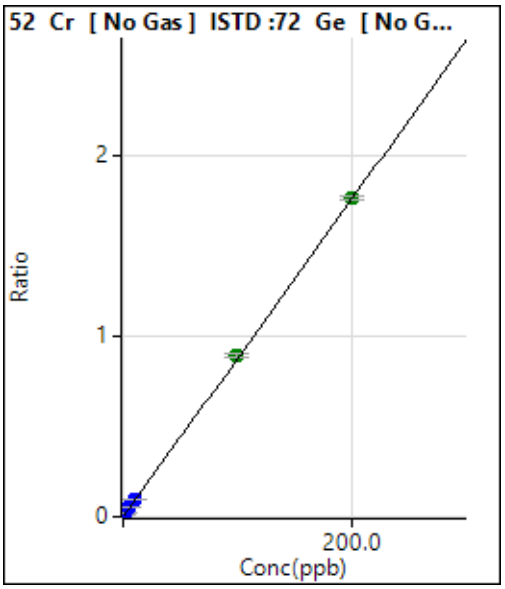
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6242.54	0.0053	P	2.7	
2	☐	2.000	1.895	25369.84	0.0214	P	2.4	-5.3
3	☐	5.000	4.794	54399.52	0.0461	P	2.0	-4.1
4	☐	10.000	9.792	103095.70	0.0886	P	2.0	-2.1
5	☐	100.000	97.338	949375.41	0.8337	A	1.9	-2.7
6	☐	200.000	201.348	1908762.42	1.7190	A	1.2	0.7

y = 0.0085 * x + 0.0053
R = 0.9999
DL = 0.05061 ppb
BEC = 0.623 ppb

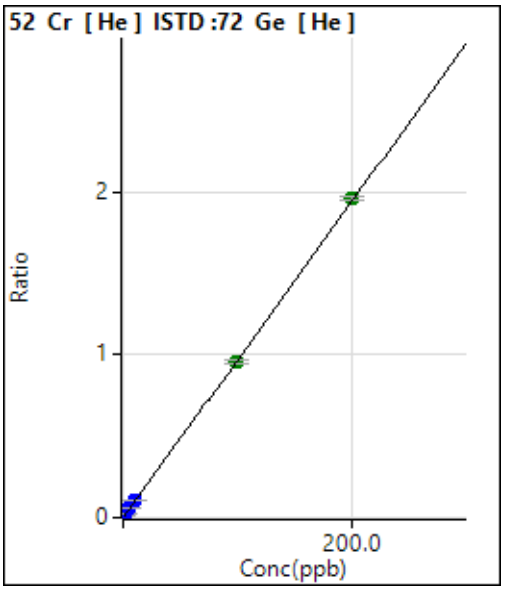
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33624.36	0.0082	P	3.3	
2	☐	2.000	2.042	107555.56	0.0261	P	1.4	2.1
3	☐	5.000	5.164	219274.43	0.0535	P	2.0	3.3
4	☐	10.000	10.159	394049.59	0.0974	P	1.3	1.6
5	☐	100.000	100.345	3448218.39	0.8892	A	2.2	0.3
6	☐	200.000	199.815	6756917.40	1.7624	A	1.4	-0.1

y = 0.0088 * x + 0.0082
R = 1.0000
DL = 0.09152 ppb
BEC = 0.9342 ppb

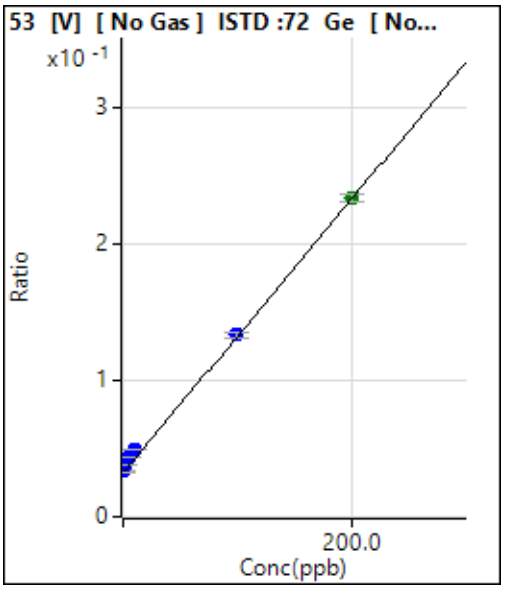
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12155.51	0.0103	P	2.3	
2	☐	2.000	1.877	33771.53	0.0285	P	1.2	-6.2
3	☐	5.000	4.816	67289.88	0.0570	P	3.2	-3.7
4	☐	10.000	9.900	123692.24	0.1064	P	2.4	-1.0
5	☐	100.000	97.672	1090534.12	0.9577	A	2.0	-2.3
6	☐	200.000	201.175	2178279.24	1.9617	A	1.6	0.6

y = 0.0097 * x + 0.0103
R = 0.9999
DL = 0.07385 ppb
BEC = 1.064 ppb

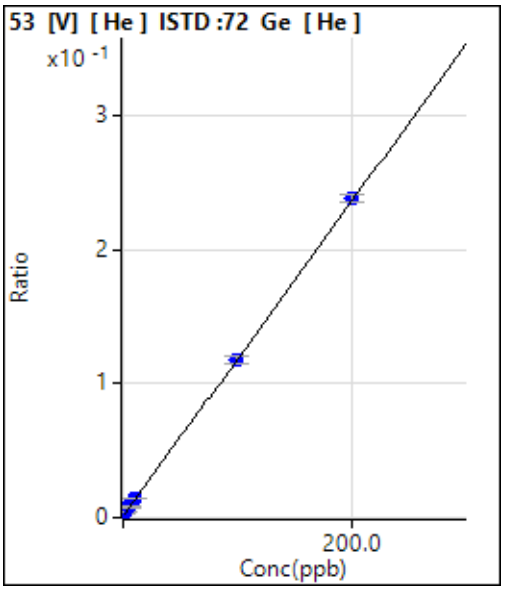
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	137235.88	0.0335	P	3.4	
2	☐	2.000	4.862	157899.77	0.0384	P	0.8	143.1
3	☐	5.000	9.956	178035.79	0.0435	P	1.4	99.1
4	☐	10.000	15.962	200268.18	0.0495	P	0.3	59.6
5	☐	100.000	99.725	517971.37	0.1336	P	2.8	-0.3
6	☐	200.000	199.687	896711.89	0.2339	A	2.1	-0.2

y = 0.0010 * x + 0.0335
R = 0.9996
DL = 3.37 ppb
BEC = 33.35 ppb

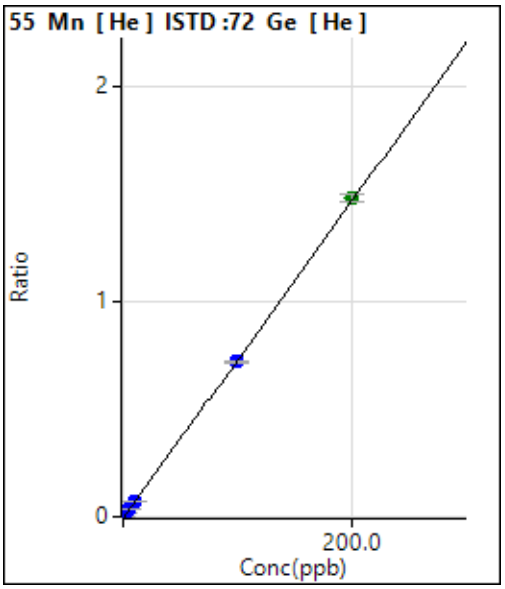
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2870.36	0.0024	P	10.7	
2	☐	2.000	1.972	5624.56	0.0048	P	5.0	-1.4
3	☐	5.000	4.713	9400.03	0.0080	P	7.7	-5.7
4	☐	10.000	9.989	16480.06	0.0142	P	0.9	-0.1
5	☐	100.000	98.088	133910.12	0.1176	P	4.0	-1.9
6	☐	200.000	200.964	264743.79	0.2384	P	1.9	0.5

y = 0.0012 * x + 0.0024
R = 0.9999
DL = 0.6662 ppb
BEC = 2.077 ppb

Weight: <None>
Min Conc: <None>

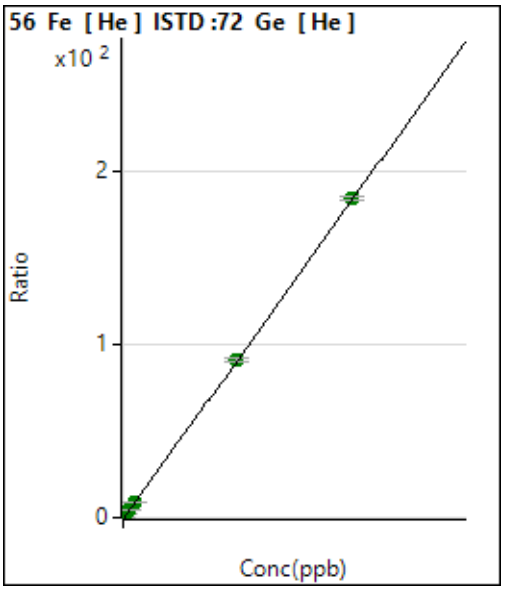


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	570.02	0.0005	P	11.1	
2	☐	2.000	1.916	17304.38	0.0146	P	2.2	-4.2
3	☐	5.000	4.783	42208.12	0.0358	P	3.5	-4.3
4	☐	10.000	9.867	85211.79	0.0733	P	2.9	-1.3
5	☐	100.000	97.664	820889.96	0.7209	P	2.1	-2.3
6	☐	200.000	201.181	1648454.09	1.4845	A	1.8	0.6

y = 0.0074 * x + 4.8393E-004
R = 0.9999
DL = 0.02178 ppb
BEC = 0.0656 ppb

Weight: <None>
Min Conc: <None>

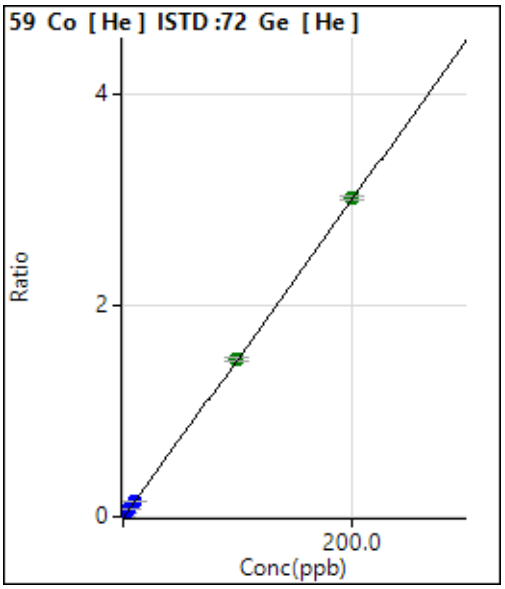
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18299.20	0.0155	P	2.8	
2	☐	200.000	192.844	2116630.39	1.7878	A	1.2	-3.6
3	☐	500.000	485.074	5279025.03	4.4735	A	1.8	-3.0
4	☐	1000.000	994.661	10650626.92	9.1566	A	1.7	-0.5
5	☐	10000.00	9920.174	103828568.4	91.1837	A	2.3	-0.8
6	☐	20000.00	20040.62	204529543.6	184.192	A	1.3	0.2

y = 0.0092 * x + 0.0155
R = 1.0000
DL = 0.1424 ppb
BEC = 1.691 ppb

Weight: <None>
Min Conc: <None>

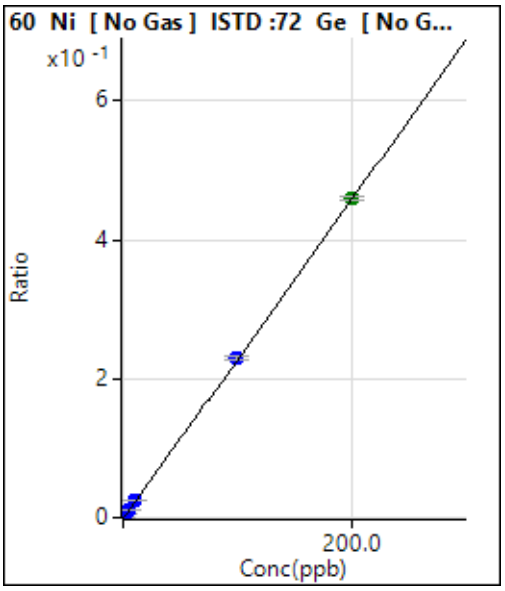


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0006	P	14.8	
2	☐	2.000	1.894	34463.48	0.0291	P	0.9	-5.3
3	☐	5.000	4.963	88959.04	0.0754	P	2.9	-0.7
4	☐	10.000	9.944	175054.83	0.1505	P	1.6	-0.6
5	☐	100.000	99.239	1704610.91	1.4970	A	2.6	-0.8
6	☐	200.000	200.385	3355907.55	3.0222	A	1.5	0.2

y = 0.0151 * x + 5.5189E-004
R = 1.0000
DL = 0.01627 ppb
BEC = 0.0366 ppb

Weight: <None>
Min Conc: <None>

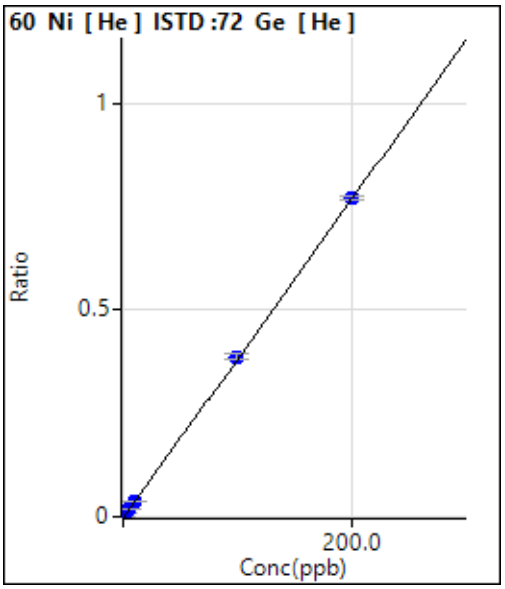
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1486.78	0.0004	P	3.2	
2	☐	2.000	2.050	20896.21	0.0051	P	5.7	2.5
3	☐	5.000	5.136	49860.20	0.0122	P	2.3	2.7
4	☐	10.000	10.239	96737.59	0.0239	P	0.3	2.4
5	☐	100.000	100.334	896167.85	0.2311	P	2.2	0.3
6	☐	200.000	199.817	1763000.29	0.4599	A	1.5	-0.1

y = 0.0023 * x + 3.6277E-004
R = 1.0000
DL = 0.01528 ppb
BEC = 0.1578 ppb

Weight: <None>
Min Conc: <None>

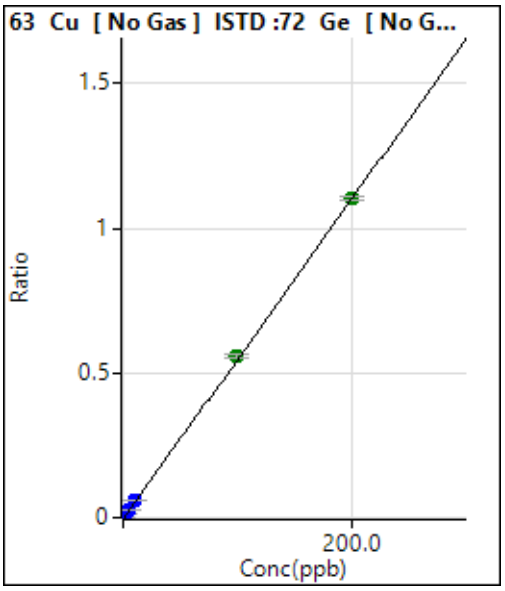


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	336.68	0.0003	P	6.9	
2	☐	2.000	1.950	9233.30	0.0078	P	1.8	-2.5
3	☐	5.000	5.048	23280.00	0.0197	P	3.0	1.0
4	☐	10.000	10.133	45733.01	0.0393	P	0.6	1.3
5	☐	100.000	100.173	439681.75	0.3861	P	3.2	0.2
6	☐	200.000	199.906	855346.16	0.7703	P	1.2	0.0

y = 0.0039 * x + 2.8601E-004
R = 1.0000
DL = 0.01536 ppb
BEC = 0.07425 ppb

Weight: <None>
Min Conc: <None>

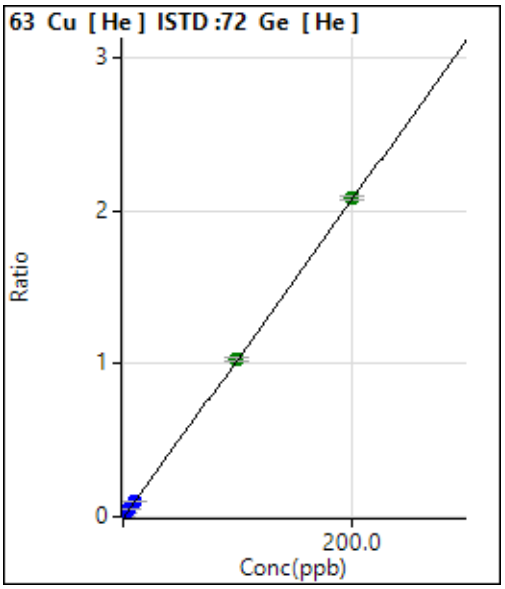
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1923.51	0.0005	P	4.6	
2	☐	2.000	2.115	50077.92	0.0122	P	1.8	5.7
3	☐	5.000	5.165	118910.60	0.0290	P	1.9	3.3
4	☐	10.000	10.437	235447.52	0.0582	P	0.6	4.4
5	☐	100.000	100.938	2166606.01	0.5587	A	1.8	0.9
6	☐	200.000	199.504	4231617.02	1.1037	A	1.5	-0.2

y = 0.0055 * x + 4.6936E-004
R = 1.0000
DL = 0.01178 ppb
BEC = 0.08487 ppb

Weight: <None>
Min Conc: <None>

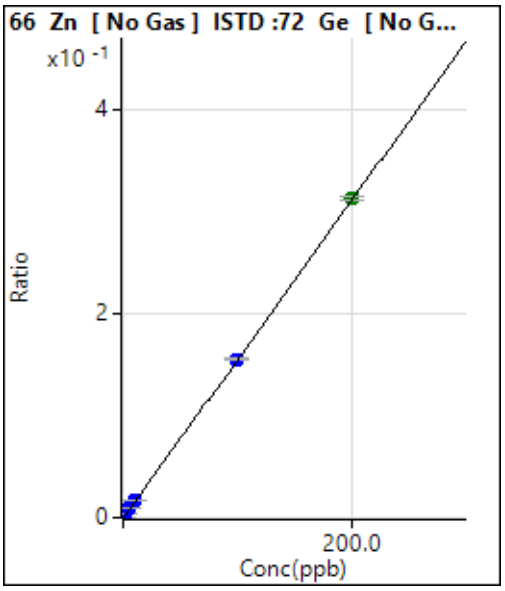


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.37	0.0007	P	3.1	
2	☐	2.000	1.943	24775.89	0.0209	P	0.9	-2.8
3	☐	5.000	4.891	60871.55	0.0516	P	2.3	-2.2
4	☐	10.000	10.000	121805.49	0.1047	P	1.6	0.0
5	☐	100.000	99.335	1177091.47	1.0338	A	2.8	-0.7
6	☐	200.000	200.336	2314158.40	2.0841	A	0.9	0.2

y = 0.0104 * x + 7.1626E-004
R = 1.0000
DL = 0.006386 ppb
BEC = 0.06887 ppb

Weight: <None>
Min Conc: <None>

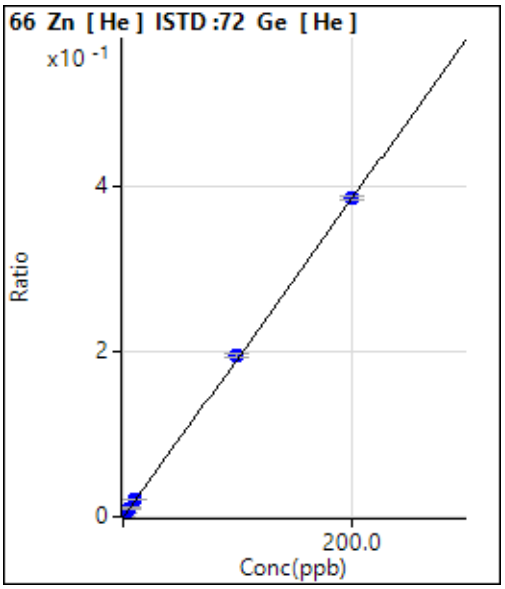
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3040.38	0.0007	P	2.4	
2	☐	2.000	2.388	18409.32	0.0045	P	1.4	19.4
3	☐	5.000	5.169	36111.22	0.0088	P	0.8	3.4
4	☐	10.000	10.015	66299.77	0.0164	P	2.5	0.2
5	☐	100.000	99.235	604032.56	0.1558	P	1.8	-0.8
6	☐	200.000	200.373	1202846.96	0.3137	A	1.5	0.2

y = 0.0016 * x + 7.4167E-004
R = 1.0000
DL = 0.03428 ppb
BEC = 0.4748 ppb

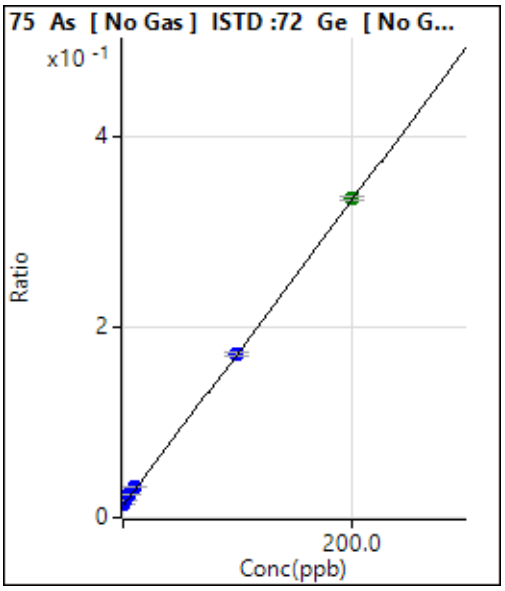
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.07	0.0010	P	4.0	
2	☐	2.000	2.396	6645.07	0.0056	P	5.2	19.8
3	☐	5.000	4.916	12369.09	0.0105	P	1.4	-1.7
4	☐	10.000	10.195	24051.38	0.0207	P	2.3	1.9
5	☐	100.000	100.670	222537.52	0.1954	P	1.8	0.7
6	☐	200.000	199.654	429295.78	0.3866	P	0.7	-0.2

y = 0.0019 * x + 9.8522E-004
R = 1.0000
DL = 0.06098 ppb
BEC = 0.5101 ppb

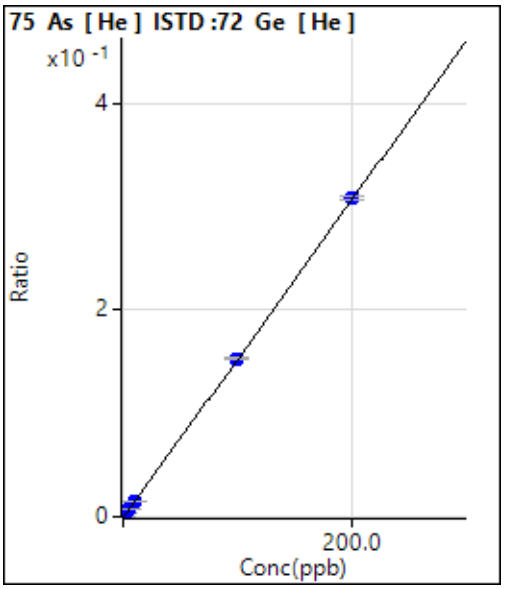
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	57748.96	0.0141	P	1.7	
2	☐	2.000	2.889	77077.08	0.0187	P	2.0	44.5
3	☐	5.000	6.260	98812.46	0.0241	P	0.7	25.2
4	☐	10.000	11.511	131676.97	0.0325	P	1.8	15.1
5	☐	100.000	98.892	669531.35	0.1726	P	2.4	-1.1
6	☐	200.000	200.438	1286103.57	0.3355	A	1.7	0.2

y = 0.0016 * x + 0.0141
R = 0.9999
DL = 0.4556 ppb
BEC = 8.786 ppb

Weight: <None>
Min Conc: <None>

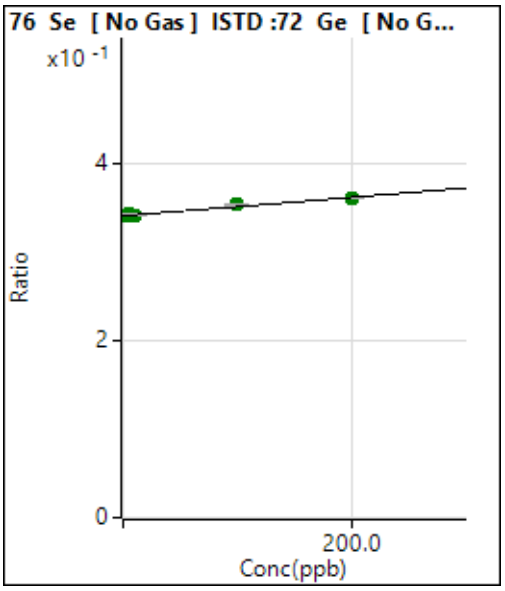


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	384.45	0.0003	P	8.6	
2	☐	2.000	1.903	3849.45	0.0033	P	1.8	-4.9
3	☐	5.000	4.990	9439.98	0.0080	P	1.2	-0.2
4	☐	10.000	9.800	17906.18	0.0154	P	2.2	-2.0
5	☐	100.000	99.215	174069.08	0.1529	P	1.8	-0.8
6	☐	200.000	200.404	342487.31	0.3084	P	0.7	0.2

y = 0.0015 * x + 3.2639E-004
R = 1.0000
DL = 0.05504 ppb
BEC = 0.2123 ppb

Weight: <None>
Min Conc: <None>

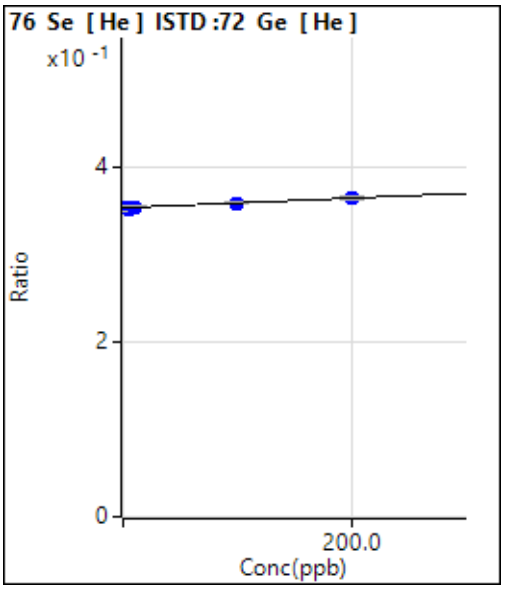
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1394924.09	0.3403	A	0.4	
2	☐	2.000	11.483	1406012.27	0.3415	A	0.6	474.2
3	☐	5.000	17.815	1401568.31	0.3422	A	0.4	256.3
4	☐	10.000	11.262	1381775.81	0.3415	A	0.4	12.6
5	☐	100.000	122.450	1369788.31	0.3532	A	0.5	22.4
6	☐	200.000	188.297	1380678.10	0.3601	A	0.3	-5.9

y = 1.0523E-004 * x + 0.3403
R = 0.9901
DL = 35.26 ppb
BEC = 3234 ppb

Weight: <None>
Min Conc: <None>

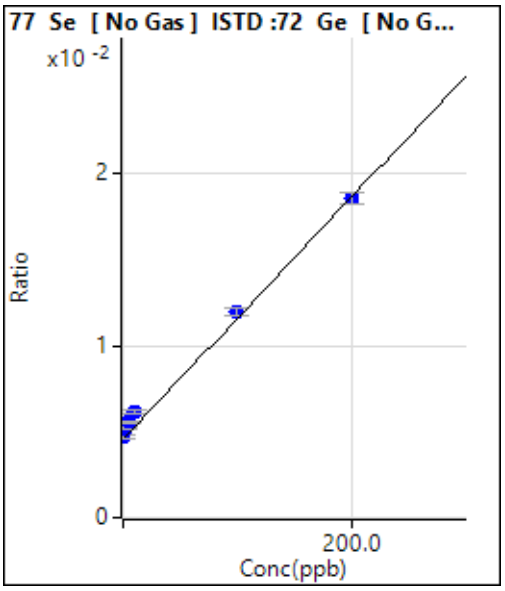


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	415837.52	0.3532	P	1.9	
2	☐	2.000	5.576	418439.47	0.3535	P	0.7	178.8
3	☐	5.000	-42.936	413916.10	0.3508	P	1.1	-958.7
4	☐	10.000	17.797	411977.18	0.3542	P	0.9	78.0
5	☐	100.000	99.665	408551.40	0.3588	P	0.7	-0.3
6	☐	200.000	200.940	404654.04	0.3644	P	0.8	0.5

y = 5.6107E-005 * x + 0.3532
R = 0.9736
DL = 359.6 ppb
BEC = 6295 ppb

Weight: <None>
Min Conc: <None>

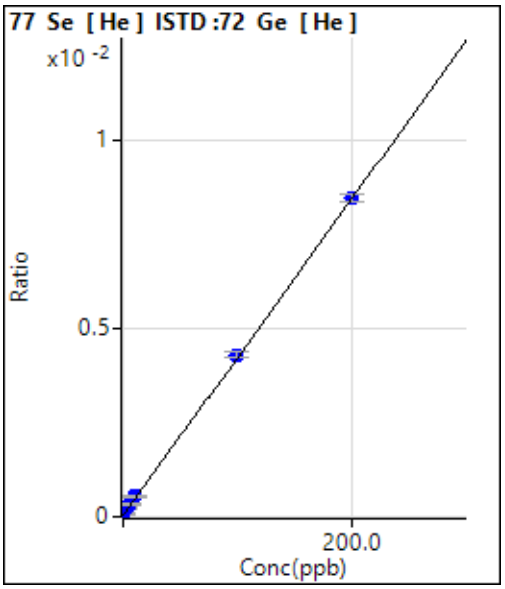
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19157.18	0.0047	P	4.3	
2	☐	2.000	7.500	21410.47	0.0052	P	1.3	275.0
3	☐	5.000	12.322	22692.50	0.0055	P	2.2	146.4
4	☐	10.000	20.557	24759.52	0.0061	P	4.0	105.6
5	☐	100.000	103.342	46328.95	0.0119	P	3.3	3.3
6	☐	200.000	197.563	71229.20	0.0186	P	3.2	-1.2

y = 7.0384E-005 * x + 0.0047
R = 0.9990
DL = 8.612 ppb
BEC = 66.39 ppb

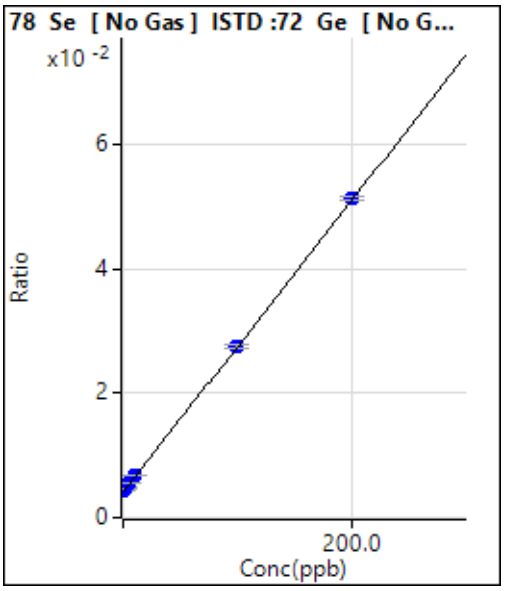
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	39.9	
2	☐	2.000	3.545	266.68	0.0002	P	21.7	77.3
3	☐	5.000	5.708	373.35	0.0003	P	15.5	14.2
4	☐	10.000	11.287	640.03	0.0006	P	8.9	12.9
5	☐	100.000	100.505	4894.31	0.0043	P	3.8	0.5
6	☐	200.000	199.650	9396.77	0.0085	P	2.0	-0.2

y = 4.2009E-005 * x + 7.6425E-005
R = 1.0000
DL = 2.177 ppb
BEC = 1.819 ppb

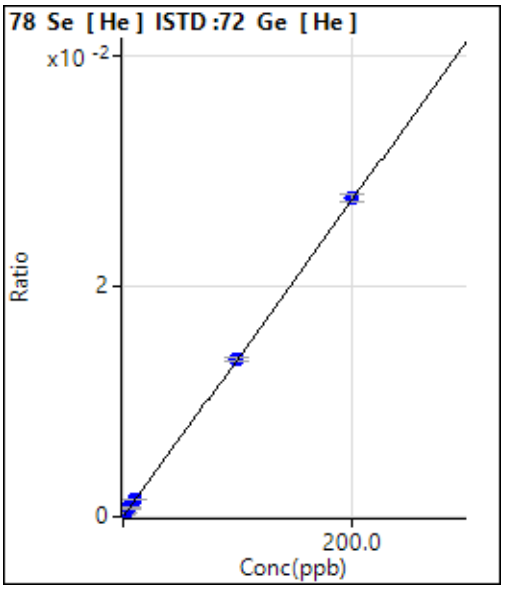
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17875.30	0.0044	P	1.8	
2	☐	2.000	1.741	19631.10	0.0048	P	1.8	-12.9
3	☐	5.000	4.799	22468.77	0.0055	P	0.9	-4.0
4	☐	10.000	10.086	27210.80	0.0067	P	0.6	0.9
5	☐	100.000	99.078	106987.36	0.0276	P	2.4	-0.9
6	☐	200.000	200.464	196896.55	0.0514	P	1.2	0.2

y = 2.3444E-004 * x + 0.0044
R = 1.0000
DL = 1.015 ppb
BEC = 18.6 ppb

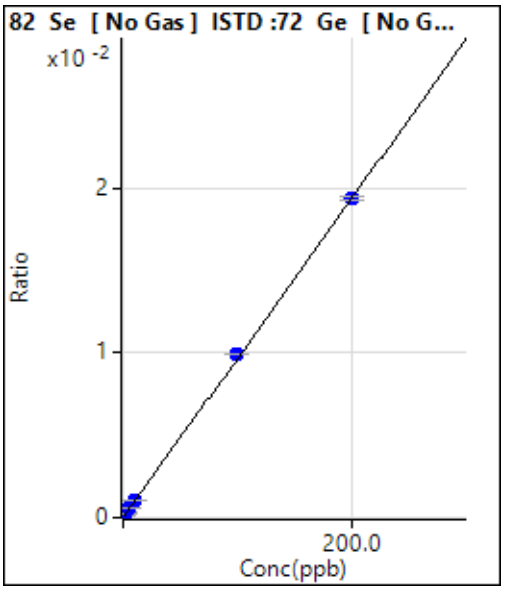
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0001	P	3.0	
2	☐	2.000	1.967	461.34	0.0004	P	6.9	-1.6
3	☐	5.000	4.745	910.03	0.0008	P	6.0	-5.1
4	☐	10.000	9.951	1730.78	0.0015	P	3.7	-0.5
5	☐	100.000	98.745	15602.27	0.0137	P	2.4	-1.3
6	☐	200.000	200.637	30777.30	0.0277	P	2.2	0.3

y = 1.3756E-004 * x + 1.1890E-004
R = 1.0000
DL = 0.0789 ppb
BEC = 0.8644 ppb

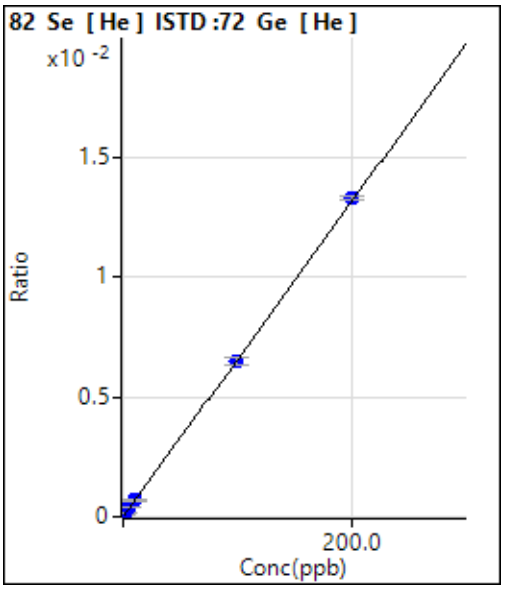
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	5.1	
2	☐	2.000	1.873	1173.40	0.0003	P	13.4	-6.4
3	☐	5.000	5.311	2530.28	0.0006	P	0.9	6.2
4	☐	10.000	10.100	4374.11	0.0011	P	3.0	1.0
5	☐	100.000	101.619	38521.55	0.0099	P	0.2	1.6
6	☐	200.000	199.179	74255.89	0.0194	P	0.8	-0.4

y = 9.6719E-005 * x + 1.0410E-004
R = 1.0000
DL = 0.1647 ppb
BEC = 1.076 ppb

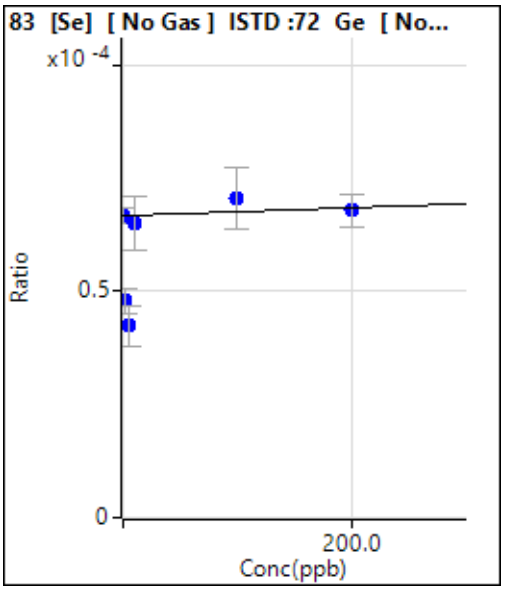
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	37.1	
2	☐	2.000	1.234	176.67	0.0001	P	10.3	-38.3
3	☐	5.000	5.282	490.02	0.0004	P	9.9	5.6
4	☐	10.000	9.848	833.37	0.0007	P	10.6	-1.5
5	☐	100.000	97.429	7378.80	0.0065	P	5.2	-2.6
6	☐	200.000	201.294	14784.92	0.0133	P	1.5	0.6

y = 6.5812E-005 * x + 6.7852E-005
R = 0.9999
DL = 1.148 ppb
BEC = 1.031 ppb

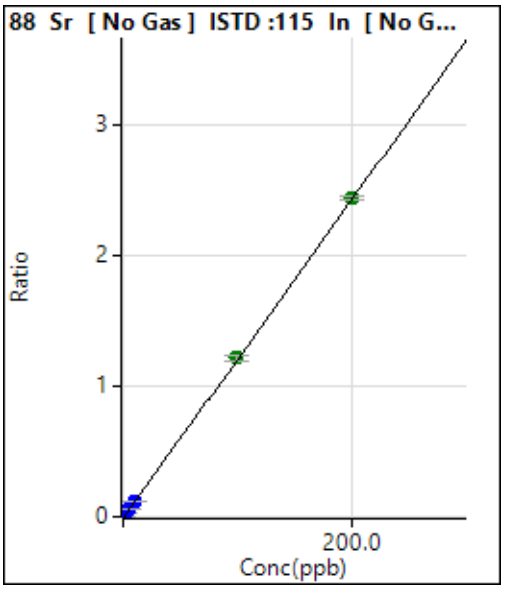
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0001	P	4.8	
2	☐	2.000	-2125.11	196.67	0.0000	P	11.5	-106356.
3	☐	5.000	-2745.31	173.34	0.0000	P	21.6	-55006.2
4	☐	10.000	-176.403	263.34	0.0001	P	18.2	-1864.0
5	☐	100.000	433.320	273.34	0.0001	P	18.8	333.3
6	☐	200.000	132.689	260.01	0.0001	P	10.7	-33.7

y = 8.8770E-009 * x + 6.6668E-005
R = 0.5250
DL = 1083 ppb
BEC = 7510 ppb

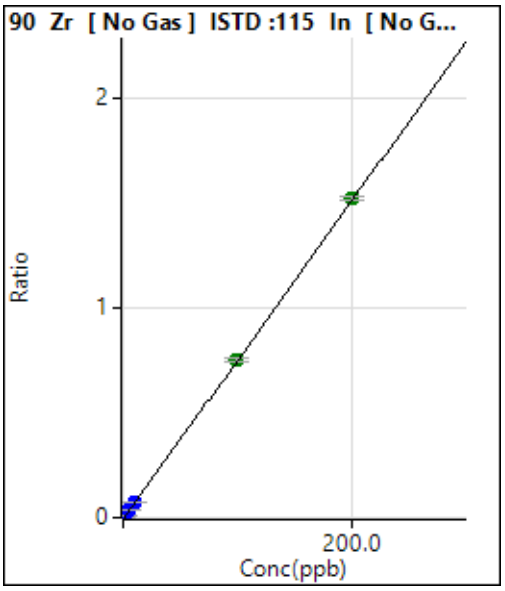
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3467.18	0.0006	P	8.1	
2	☐	2.000	1.989	134213.36	0.0248	P	1.5	-0.6
3	☐	5.000	4.841	323450.76	0.0596	P	1.4	-3.2
4	☐	10.000	9.592	634164.55	0.1174	P	1.7	-4.1
5	☐	100.000	99.563	6249461.99	1.2123	A	3.1	-0.4
6	☐	200.000	200.243	12414274.82	2.4376	A	1.0	0.1

y = 0.0122 * x + 6.3423E-004
R = 1.0000
DL = 0.01262 ppb
BEC = 0.05211 ppb

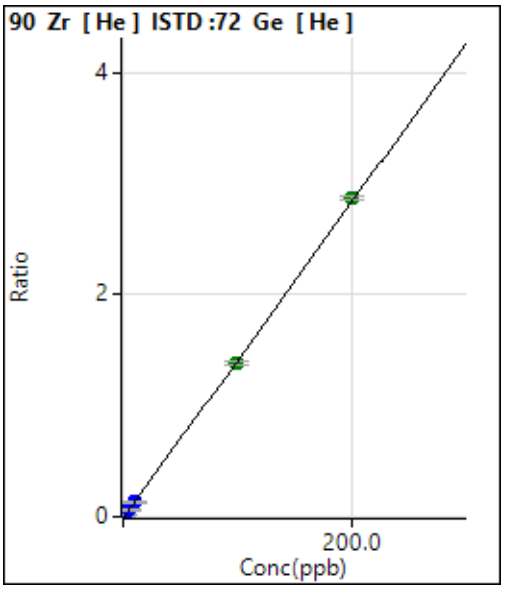
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1356.76	0.0002	P	12.9	
2	☐	2.000	1.645	68898.79	0.0127	P	1.9	-17.8
3	☐	5.000	4.362	181428.50	0.0334	P	0.6	-12.8
4	☐	10.000	9.175	378157.39	0.0700	P	1.4	-8.3
5	☐	100.000	98.724	3869658.69	0.7507	A	2.9	-1.3
6	☐	200.000	200.699	7770539.05	1.5258	A	1.1	0.3

y = 0.0076 * x + 2.4823E-004
R = 1.0000
DL = 0.01266 ppb
BEC = 0.03266 ppb

Weight: <None>
Min Conc: <None>

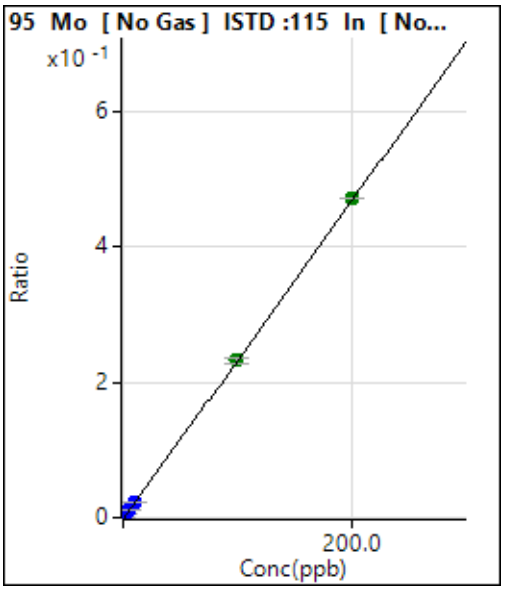


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1680.13	0.0014	P	4.9	
2	☐	2.000	1.571	28176.43	0.0238	P	2.1	-21.5
3	☐	5.000	4.180	71934.31	0.0610	P	2.1	-16.4
4	☐	10.000	9.080	152082.92	0.1307	P	2.7	-9.2
5	☐	100.000	96.884	1572687.27	1.3812	A	2.7	-3.1
6	☐	200.000	201.629	3190047.98	2.8729	A	1.6	0.8

y = 0.0142 * x + 0.0014
R = 0.9998
DL = 0.01476 ppb
BEC = 0.1002 ppb

Weight: <None>
Min Conc: <None>

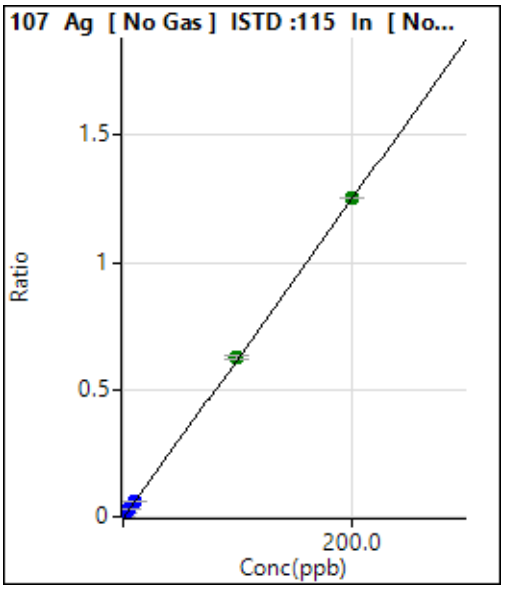
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0000	P	45.6	
2	☐	2.000	1.982	25354.24	0.0047	P	3.6	-0.9
3	☐	5.000	4.844	61999.25	0.0114	P	1.9	-3.1
4	☐	10.000	9.866	125420.09	0.0232	P	2.4	-1.3
5	☐	100.000	98.611	1194393.78	0.2317	A	2.6	-1.4
6	☐	200.000	200.706	2401501.16	0.4715	A	0.1	0.4

y = 0.0023 * x + 3.5413E-005
R = 1.0000
DL = 0.02063 ppb
BEC = 0.01507 ppb

Weight: <None>
Min Conc: <None>

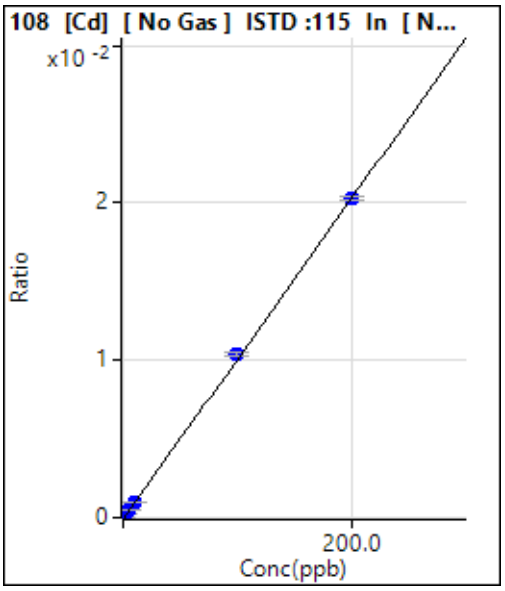


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.38	0.0002	P	8.1	
2	☐	2.000	2.025	69463.52	0.0129	P	2.8	1.3
3	☐	5.000	5.027	172063.10	0.0317	P	1.7	0.5
4	☐	10.000	10.121	343805.45	0.0636	P	1.1	1.2
5	☐	100.000	100.245	3241620.37	0.6288	A	2.8	0.2
6	☐	200.000	199.870	6384405.32	1.2536	A	0.6	-0.1

y = 0.0063 * x + 1.5427E-004
R = 1.0000
DL = 0.005997 ppb
BEC = 0.0246 ppb

Weight: <None>
Min Conc: <None>

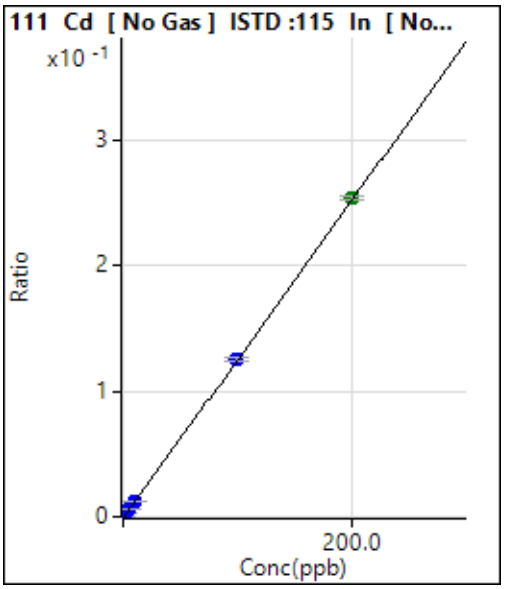
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	1.995	1106.74	0.0002	P	13.3	-0.3
3	☐	5.000	4.879	2710.33	0.0005	P	0.8	-2.4
4	☐	10.000	10.130	5591.27	0.0010	P	0.7	1.3
5	☐	100.000	101.970	53637.82	0.0104	P	2.0	2.0
6	☐	200.000	199.012	103414.66	0.0203	P	0.9	-0.5

y = 1.0203E-004 * x + 1.2162E-006
R = 0.9999
DL = 0.06194 ppb
BEC = 0.01192 ppb

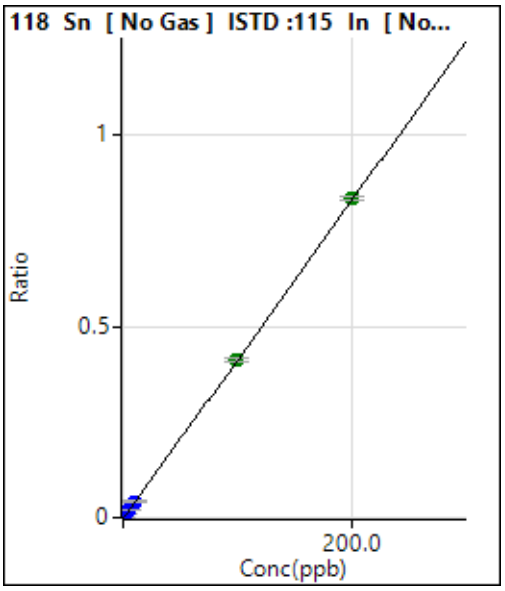
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.18	0.0000	P	181.1	
2	☐	2.000	1.981	13574.23	0.0025	P	9.1	-1.0
3	☐	5.000	4.959	34133.56	0.0063	P	2.5	-0.8
4	☐	10.000	9.756	66792.22	0.0124	P	3.1	-2.4
5	☐	100.000	98.615	643980.48	0.1249	P	2.3	-1.4
6	☐	200.000	200.706	1294841.88	0.2542	A	1.0	0.4

y = 0.0013 * x + 2.9543E-006
R = 1.0000
DL = 0.01267 ppb
BEC = 0.002332 ppb

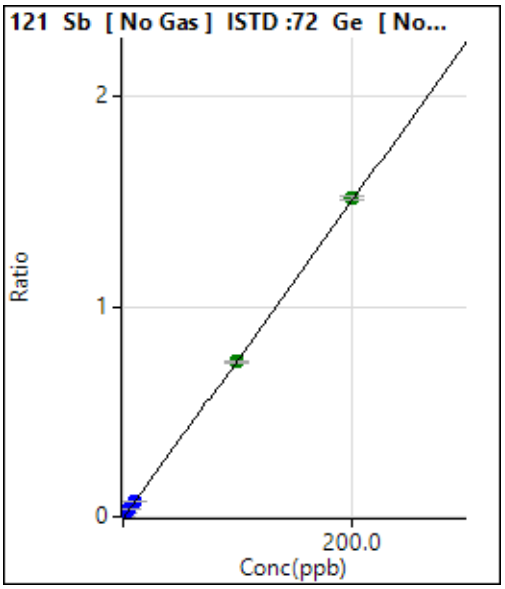
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6124.86	0.0011	P	4.1	
2	☐	2.000	2.069	52568.32	0.0097	P	3.0	3.5
3	☐	5.000	4.943	117741.68	0.0217	P	1.8	-1.1
4	☐	10.000	9.970	230119.40	0.0426	P	1.9	-0.3
5	☐	100.000	99.084	2130163.56	0.4132	A	1.9	-0.9
6	☐	200.000	200.460	4251728.27	0.8348	A	1.5	0.2

y = 0.0042 * x + 0.0011
R = 1.0000
DL = 0.03341 ppb
BEC = 0.2694 ppb

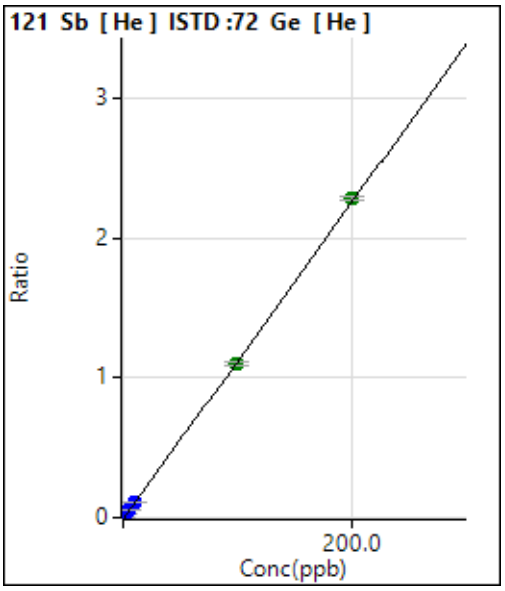
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.01	0.0001	P	10.5	
2	☐	2.000	1.983	62045.06	0.0151	P	1.4	-0.9
3	☐	5.000	4.990	154660.79	0.0378	P	0.9	-0.2
4	☐	10.000	10.053	307370.92	0.0760	P	1.5	0.5
5	☐	100.000	97.899	2865220.27	0.7388	A	1.6	-2.1
6	☐	200.000	201.048	5816531.79	1.5171	A	1.8	0.5

y = 0.0075 * x + 1.0981E-004
R = 0.9999
DL = 0.00459 ppb
BEC = 0.01455 ppb

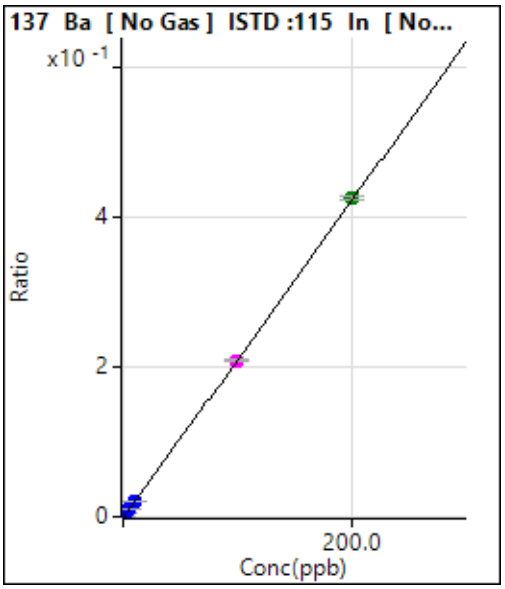
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0002	P	19.9	
2	☐	2.000	1.877	25494.88	0.0215	P	1.3	-6.1
3	☐	5.000	4.788	64389.44	0.0546	P	2.2	-4.2
4	☐	10.000	9.820	129844.74	0.1116	P	2.6	-1.8
5	☐	100.000	96.637	1248588.89	1.0965	A	2.5	-3.4
6	☐	200.000	201.697	2540939.80	2.2883	A	1.2	0.8

y = 0.0113 * x + 2.4049E-004
R = 0.9998
DL = 0.01265 ppb
BEC = 0.0212 ppb

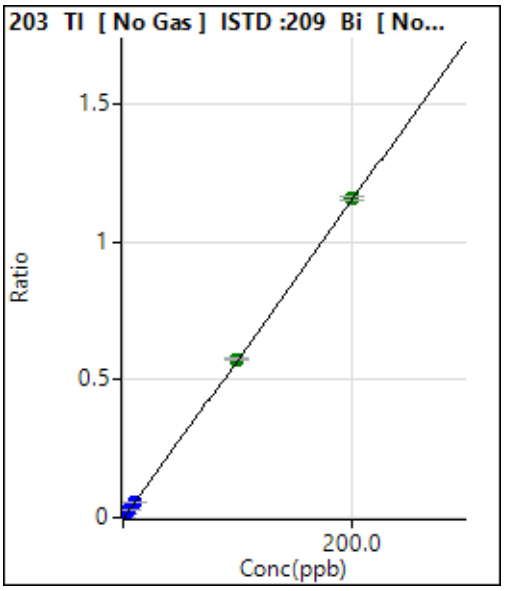
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0002	P	12.4	
2	☐	2.000	2.214	26276.57	0.0049	P	2.4	10.7
3	☐	5.000	4.861	56920.11	0.0105	P	2.0	-2.8
4	☐	10.000	9.803	113295.91	0.0210	P	1.4	-2.0
5	☐	100.000	98.448	1077914.15	0.2091	M	1.8	-1.6
6	☐	200.000	200.787	2171018.98	0.4263	A	1.2	0.4

y = 0.0021 * x + 1.6343E-004
R = 1.0000
DL = 0.02857 ppb
BEC = 0.07701 ppb

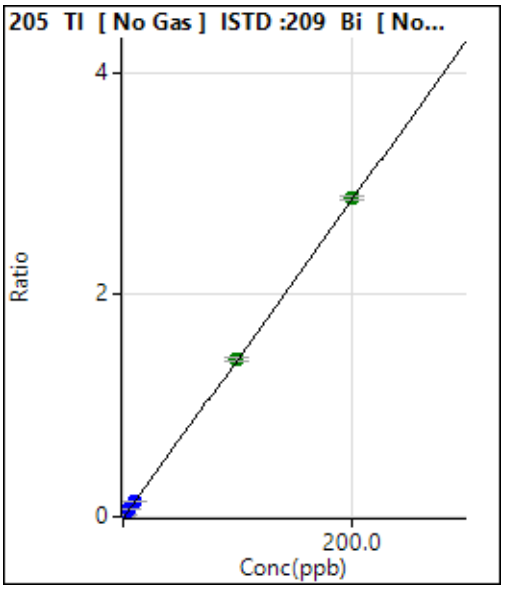
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1230.09	0.0002	P	1.3	
2	☐	2.000	1.807	61355.70	0.0107	P	1.0	-9.7
3	☐	5.000	4.760	161845.36	0.0278	P	1.3	-4.8
4	☐	10.000	9.818	328100.53	0.0570	P	0.2	-1.8
5	☐	100.000	99.166	3206285.79	0.5742	A	1.4	-0.8
6	☐	200.000	200.434	6377438.24	1.1603	A	1.3	0.2

y = 0.0058 * x + 2.1599E-004
R = 1.0000
DL = 0.001412 ppb
BEC = 0.03732 ppb

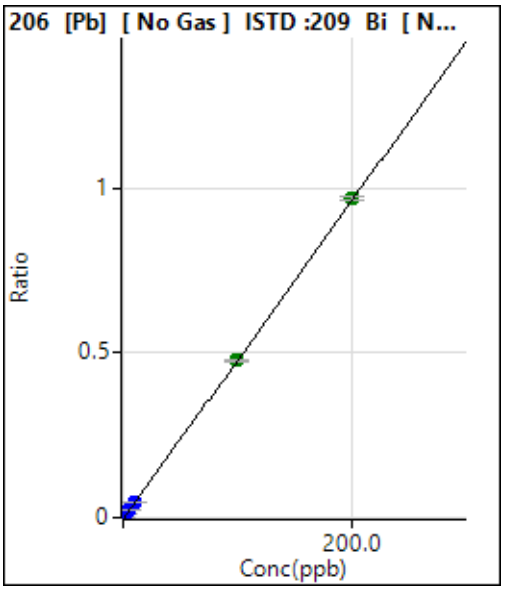
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2840.38	0.0005	P	6.7	
2	☐	2.000	1.742	146130.02	0.0254	P	1.0	-12.9
3	☐	5.000	4.615	387799.11	0.0665	P	0.6	-7.7
4	☐	10.000	9.477	782940.41	0.1361	P	0.9	-5.2
5	☐	100.000	99.068	7919079.46	1.4181	A	1.6	-0.9
6	☐	200.000	200.504	15772541.85	2.8697	A	0.9	0.3

y = 0.0143 * x + 4.9888E-004
R = 1.0000
DL = 0.007026 ppb
BEC = 0.03486 ppb

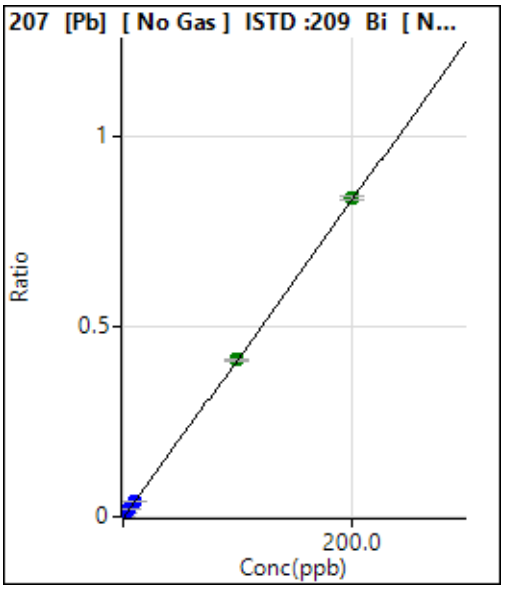
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1390.11	0.0002	P	10.9	
2	☐	2.000	1.910	54441.76	0.0095	P	0.9	-4.5
3	☐	5.000	4.875	138674.39	0.0238	P	0.6	-2.5
4	☐	10.000	9.894	276350.48	0.0480	P	0.8	-1.1
5	☐	100.000	98.626	2662080.06	0.4767	A	1.1	-1.4
6	☐	200.000	200.696	5330407.42	0.9698	A	1.4	0.3

y = 0.0048 * x + 2.4425E-004
R = 1.0000
DL = 0.01653 ppb
BEC = 0.05056 ppb

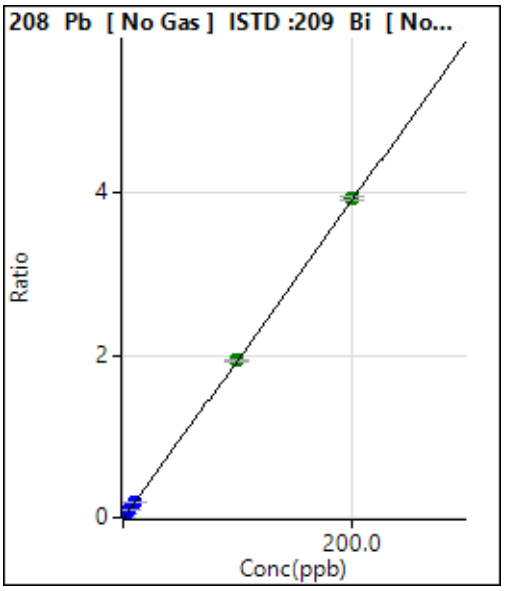
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1326.76	0.0002	P	13.0	
2	☐	2.000	1.949	48199.16	0.0084	P	1.9	-2.6
3	☐	5.000	4.888	120537.44	0.0207	P	1.9	-2.2
4	☐	10.000	9.882	239120.22	0.0416	P	0.8	-1.2
5	☐	100.000	98.681	2306490.44	0.4130	A	1.1	-1.3
6	☐	200.000	200.669	4615146.80	0.8397	A	1.5	0.3

y = 0.0042 * x + 2.3280E-004
R = 1.0000
DL = 0.02164 ppb
BEC = 0.05565 ppb

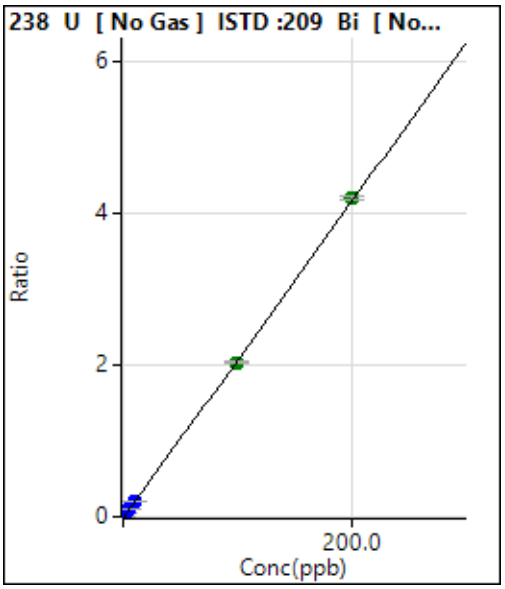
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5820.65	0.0010	P	2.9	
2	☐	2.000	1.914	221755.03	0.0386	P	0.4	-4.3
3	☐	5.000	4.805	555429.51	0.0953	P	0.8	-3.9
4	☐	10.000	9.701	1100723.80	0.1914	P	0.9	-3.0
5	☐	100.000	98.819	10833656.04	1.9401	A	0.9	-1.2
6	☐	200.000	200.611	21641126.13	3.9374	A	1.3	0.3

y = 0.0196 * x + 0.0010
R = 1.0000
DL = 0.004475 ppb
BEC = 0.05209 ppb

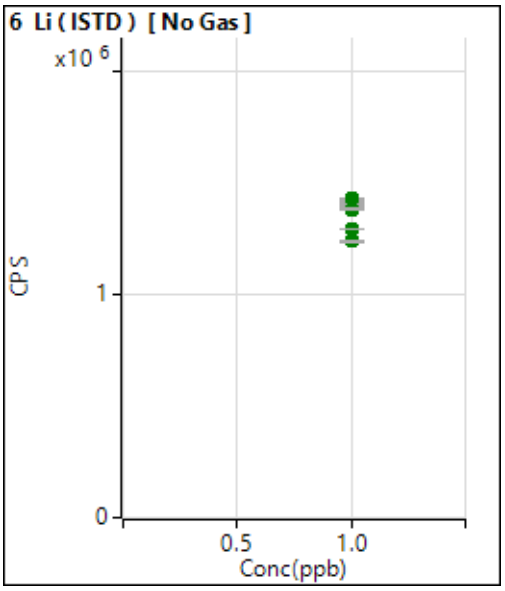
Weight: <None>
Min Conc: <None>



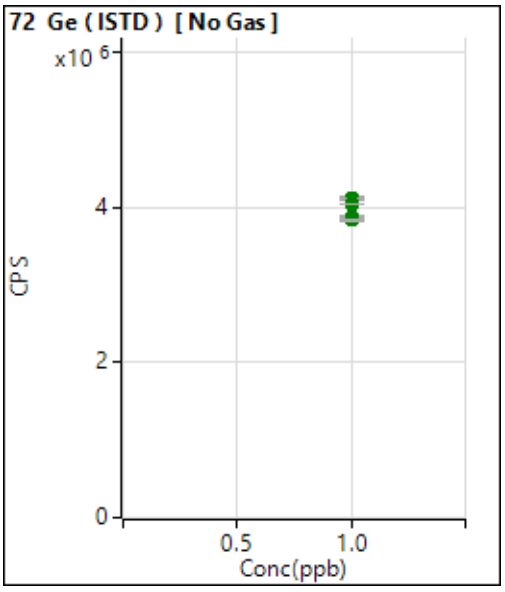
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4307.51	0.0008	P	3.9	
2	☐	2.000	1.823	223408.42	0.0389	P	1.3	-8.9
3	☐	5.000	4.578	562286.40	0.0965	P	0.8	-8.4
4	☐	10.000	9.238	1115451.42	0.1939	P	1.1	-7.6
5	☐	100.000	97.520	11391080.25	2.0399	A	1.0	-2.5
6	☐	200.000	201.291	23138007.15	4.2097	A	1.6	0.6

y = 0.0209 * x + 7.5650E-004
R = 0.9999
DL = 0.004286 ppb
BEC = 0.03618 ppb

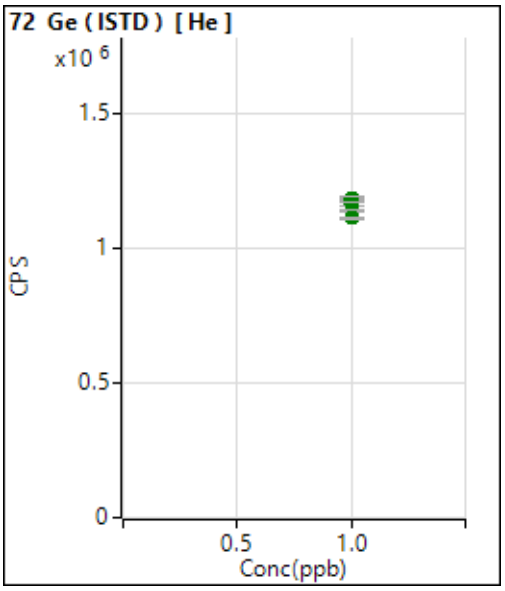
Weight: <None>
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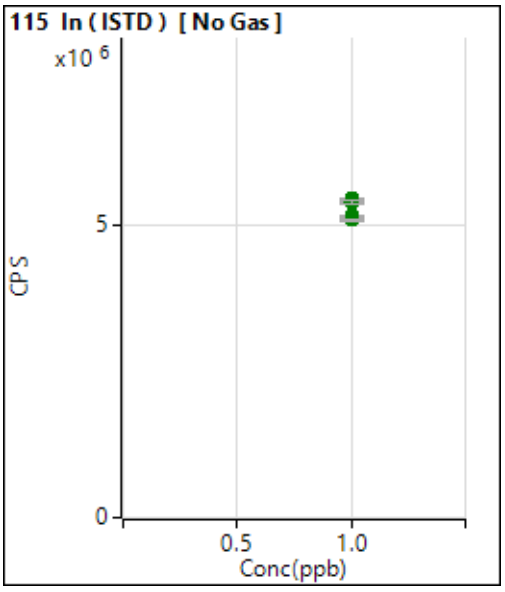
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1432988.15		A	0.6	
2	☐	1.000		1422407.92		A	0.4	
3	☐	1.000		1405542.21		A	0.4	
4	☐	1.000		1384224.02		A	0.7	
5	☐	1.000		1292698.36		A	0.2	
6	☐	1.000		1239713.30		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4099067.23		A	0.8	
2	☐	1.000		4117109.21		A	0.9	
3	☐	1.000		4095960.36		A	0.5	
4	☐	1.000		4046244.73		A	0.3	
5	☐	1.000		3878311.09		A	0.5	
6	☐	1.000		3833939.11		A	0.6	

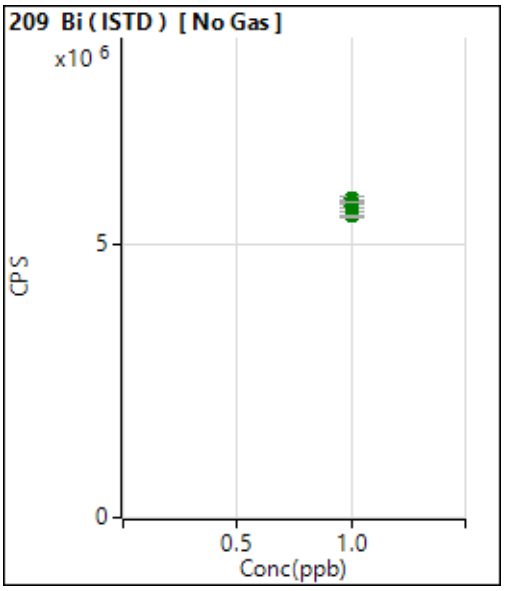


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177508.26		A	0.7	
2	☐	1.000		1183818.29		A	1.4	
3	☐	1.000		1180155.40		A	1.8	
4	☐	1.000		1163171.26		A	1.1	
5	☐	1.000		1138806.67		A	0.9	
6	☐	1.000		1110352.72		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5466008.96		A	0.4	
2	☐	1.000		5404327.92		A	0.5	
3	☐	1.000		5431307.58		A	0.3	
4	☐	1.000		5403499.29		A	0.8	
5	☐	1.000		5155412.32		A	0.5	
6	☐	1.000		5092861.04		A	0.5	

Calibration for 218_ICV.d



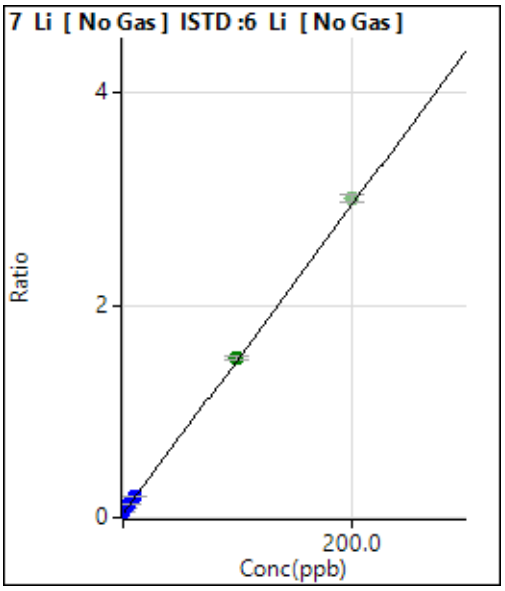
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5695482.21		A	1.0	
2	☐	1.000		5747471.37		A	1.2	
3	☐	1.000		5827952.62		A	1.0	
4	☐	1.000		5751858.45		A	0.2	
5	☐	1.000		5584293.25		A	0.4	
6	☐	1.000		5496197.21		A	0.2	

Calibration for 123_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	116CALB.d	CAL BLK	6/25/2024 3:47:08 PM
2	117CALS.d	2/10/200	6/25/2024 3:49:38 PM
3	118CALS.d	5/25/500	6/25/2024 3:52:08 PM
4	119CALS.d	10/50/100	6/25/2024 3:54:39 PM
5	120CALS.d	100/500/10K	6/25/2024 3:57:08 PM
6	121CALS.d	200/1000/20K	6/25/2024 3:59:38 PM

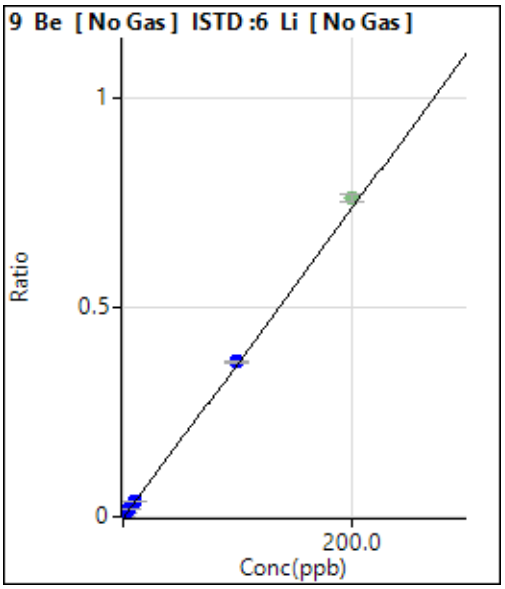
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	91003.24	0.0543	P	0.5	
2	☐	2.000	1.967	135801.46	0.0828	P	1.3	-1.6
3	☐	5.000	4.954	204053.63	0.1261	P	0.4	-0.9
4	☐	10.000	10.038	314748.84	0.1998	P	1.3	0.4
5	☐	100.000	99.999	2252302.10	1.5043	A	2.2	0.0
6	☑	200.000		4295084.10	3.0049	A	2.0	

y = 0.0145 * x + 0.0543
R = 1.0000
DL = 0.0599 ppb
BEC = 3.744 ppb

Weight: <None>
Min Conc: <None>

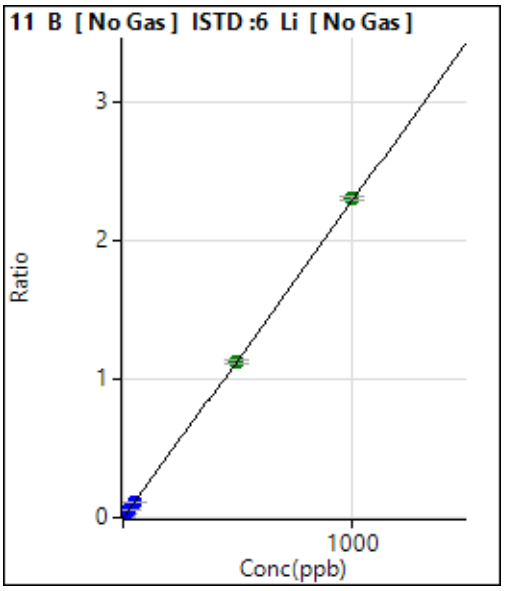


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230.00	0.0001	P	27.7	
2	☐	2.000	1.902	11771.61	0.0072	P	2.0	-4.9
3	☐	5.000	4.830	29161.52	0.0180	P	1.0	-3.4
4	☐	10.000	9.798	57351.63	0.0364	P	4.0	-2.0
5	☐	100.000	100.031	554805.86	0.3705	P	1.7	0.0
6	☑	200.000		1090310.09	0.7628	A	1.9	

y = 0.0037 * x + 1.3710E-004
R = 1.0000
DL = 0.03077 ppb
BEC = 0.03702 ppb

Weight: <None>
Min Conc: <None>

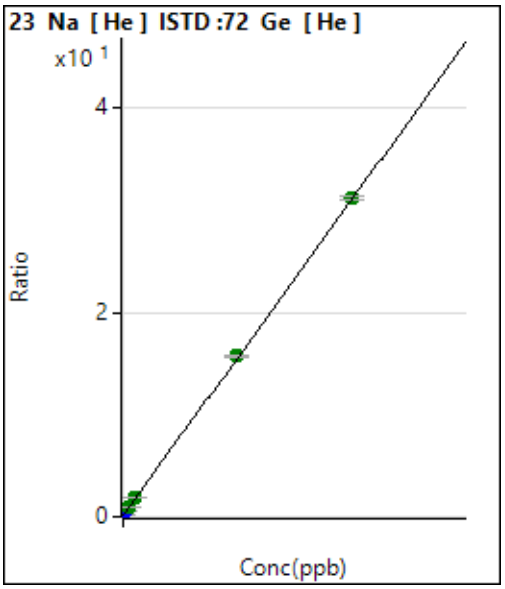
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11521.41	0.0069	P	2.4	
2	☐	10.000	9.636	47375.21	0.0289	P	0.6	-3.6
3	☐	25.000	23.398	97622.44	0.0603	P	0.4	-6.4
4	☐	50.000	48.118	183988.66	0.1168	P	1.7	-3.8
5	☐	500.000	488.824	1682650.81	1.1238	A	1.8	-2.2
6	☐	1000.000	1005.726	3294655.99	2.3049	A	1.1	0.6

y = 0.0023 * x + 0.0069
R = 0.9999
DL = 0.2126 ppb
BEC = 3.008 ppb

Weight: <None>
Min Conc: <None>

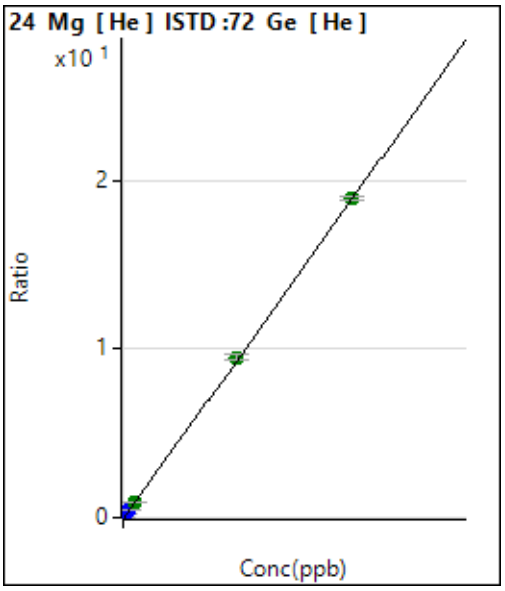


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	321941.48	0.2767	P	1.6	
2	☐	200.000	183.255	654923.78	0.5599	P	1.4	-8.4
3	☐	500.000	471.113	1164116.52	1.0047	A	2.3	-5.8
4	☐	1000.000	997.823	2070850.23	1.8185	A	0.5	-0.2
5	☐	10000.00	9980.713	17609042.24	15.6978	A	2.2	-0.2
6	☐	20000.00	20010.64	34254962.82	31.1950	A	1.2	0.1

y = 0.0015 * x + 0.2767
R = 1.0000
DL = 8.492 ppb
BEC = 179.1 ppb

Weight: <None>
Min Conc: <None>

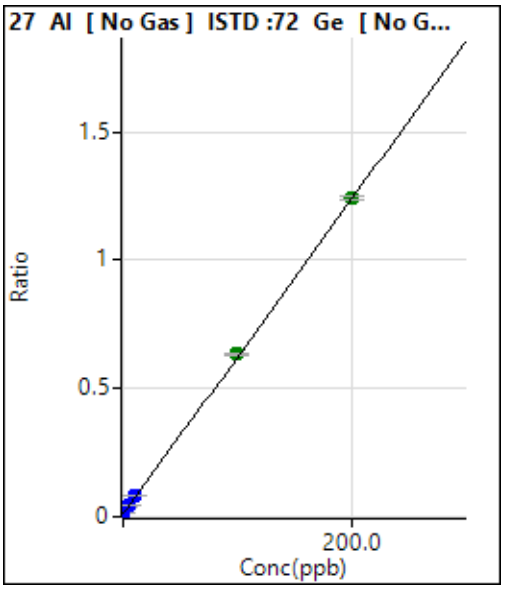
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0008	P	5.2	
2	☐	200.000	192.523	214489.24	0.1834	P	1.6	-3.7
3	☐	500.000	481.411	529997.76	0.4574	P	3.7	-3.7
4	☐	1000.000	1014.470	1096589.41	0.9630	A	0.1	1.4
5	☐	10000.00	10047.61	10690653.17	9.5306	A	2.5	0.5
6	☐	20000.00	19976.00	20805941.36	18.9473	A	1.1	-0.1

y = 9.4846E-004 * x + 7.6806E-004
R = 1.0000
DL = 0.1266 ppb
BEC = 0.8098 ppb

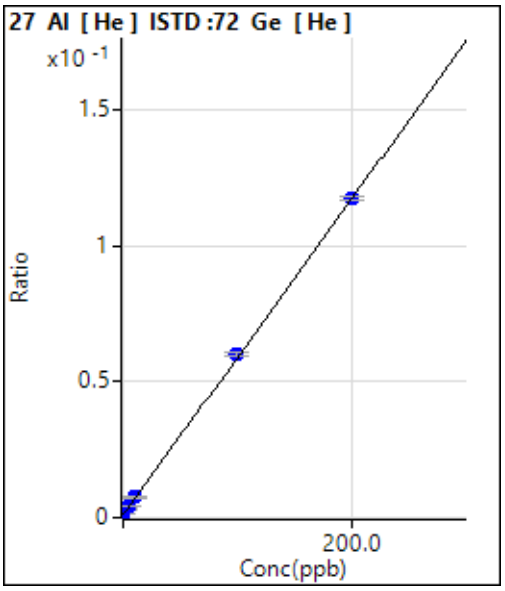
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	64770.12	0.0159	P	1.7	
2	☐	2.000	2.991	140429.14	0.0343	P	1.0	49.6
3	☐	5.000	5.018	190061.91	0.0467	P	2.1	0.4
4	☐	10.000	10.353	320636.44	0.0795	P	1.2	3.5
5	☐	100.000	100.702	2479820.07	0.6349	A	1.6	0.7
6	☐	200.000	199.621	4792184.20	1.2430	A	1.8	-0.2

y = 0.0061 * x + 0.0159
R = 1.0000
DL = 0.1281 ppb
BEC = 2.583 ppb

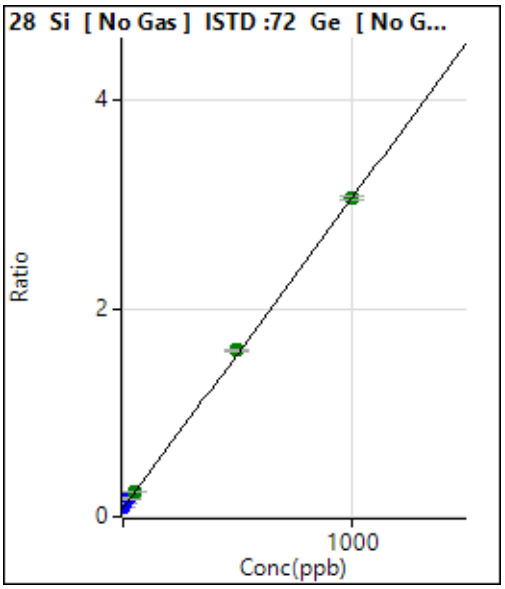
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1796.82	0.0015	P	13.2	
2	☐	2.000	2.931	3800.61	0.0032	P	6.6	46.6
3	☐	5.000	4.893	5087.70	0.0044	P	5.0	-2.1
4	☐	10.000	10.332	8602.75	0.0076	P	3.6	3.3
5	☐	100.000	100.930	67571.85	0.0602	P	3.0	0.9
6	☐	200.000	199.512	129111.29	0.1176	P	1.5	-0.2

y = 5.8157E-004 * x + 0.0015
R = 1.0000
DL = 1.052 ppb
BEC = 2.657 ppb

Weight: <None>
Min Conc: <None>

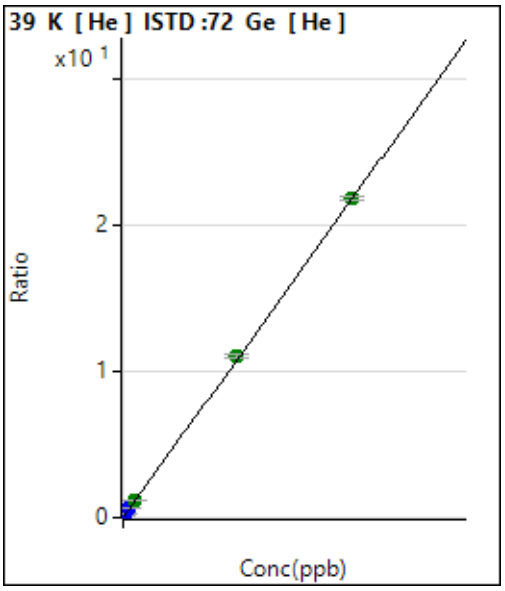


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	388377.05	0.0952	P	0.3	
2	☐	10.000	11.436	529644.03	0.1292	P	0.9	14.4
3	☐	25.000	26.952	713459.73	0.1754	P	0.9	7.8
4	☐	50.000	50.617	991057.85	0.2458	A	1.0	1.2
5	☐	500.000	506.361	6255443.66	1.6017	A	1.2	1.3
6	☐	1000.000	996.725	11798675.24	3.0605	A	1.7	-0.3

y = 0.0030 * x + 0.0952
R = 1.0000
DL = 0.2656 ppb
BEC = 32.01 ppb

Weight: <None>
Min Conc: <None>

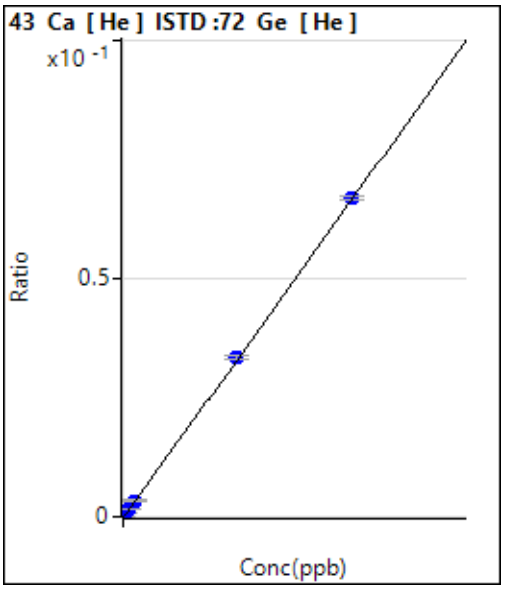
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	124829.84	0.1073	P	0.1	
2	☐	200.000	191.152	369134.79	0.3156	P	1.4	-4.4
3	☐	500.000	484.894	736485.49	0.6356	P	2.5	-3.0
4	☐	1000.000	1011.868	1377701.70	1.2098	A	0.0	1.2
5	☐	10000.00	10057.46	12412694.40	11.0656	A	2.0	0.6
6	☐	20000.00	19971.13	24012157.98	21.8673	A	1.3	-0.1

y = 0.0011 * x + 0.1073
R = 1.0000
DL = 0.154 ppb
BEC = 98.48 ppb

Weight: <None>
Min Conc: <None>

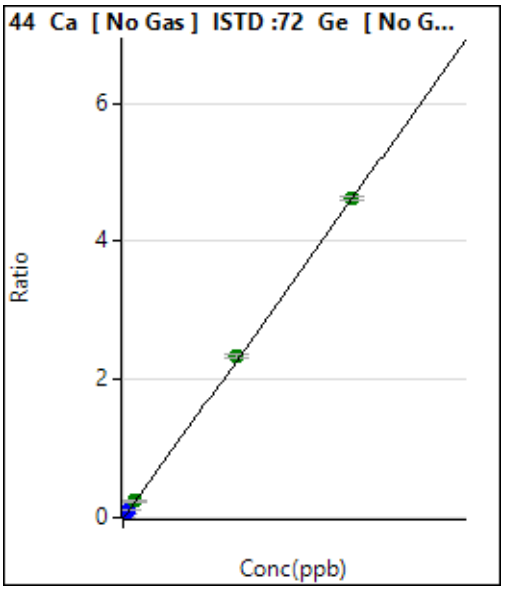


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	57.6	
2	☐	200.000	192.400	796.70	0.0007	P	5.1	-3.8
3	☐	500.000	449.620	1786.82	0.0015	P	6.4	-10.1
4	☐	1000.000	1005.975	3877.26	0.0034	P	3.2	0.6
5	☐	10000.00	9966.497	37457.34	0.0334	P	2.0	-0.3
6	☐	20000.00	20017.78	73611.18	0.0670	P	1.5	0.1

y = 3.3468E-006 * x + 3.7205E-005
R = 1.0000
DL = 19.22 ppb
BEC = 11.12 ppb

Weight: <None>
Min Conc: <None>

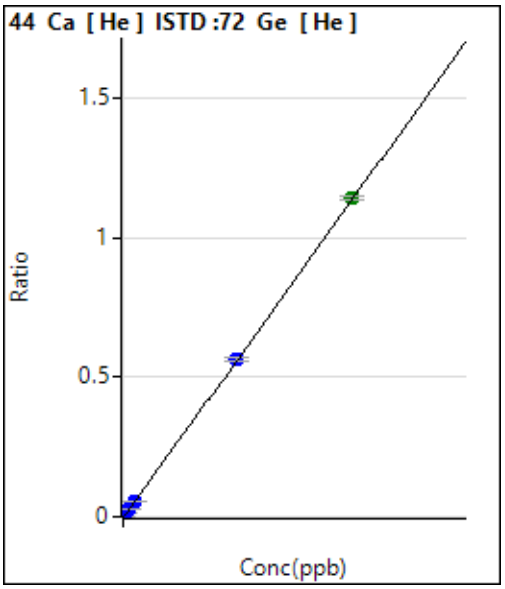
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27230.15	0.0067	P	1.1	
2	☐	200.000	208.057	224649.09	0.0548	P	2.3	4.0
3	☐	500.000	505.820	503239.55	0.1237	P	2.0	1.2
4	☐	1000.000	996.604	956737.17	0.2373	A	1.8	-0.3
5	☐	10000.00	10071.34	9128186.74	2.3372	A	1.6	0.7
6	☐	20000.00	19964.27	17835365.57	4.6264	A	1.8	-0.2

y = 2.3140E-004 * x + 0.0067
R = 1.0000
DL = 0.9426 ppb
BEC = 28.85 ppb

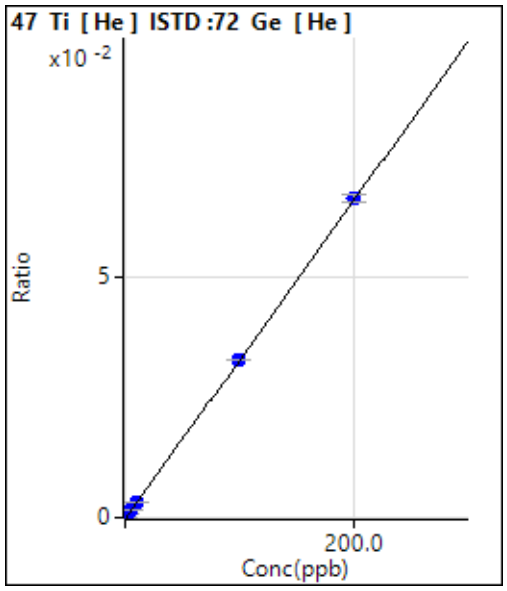
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	920.05	0.0008	P	7.0	
2	☐	200.000	198.184	14150.82	0.0121	P	6.9	-0.9
3	☐	500.000	484.070	32919.17	0.0284	P	1.4	-3.2
4	☐	1000.000	989.865	65209.62	0.0573	P	1.2	-1.0
5	☐	10000.00	9905.756	634861.45	0.5660	P	2.0	-0.9
6	☐	20000.00	20048.04	1256934.25	1.1446	A	1.5	0.2

y = 5.7054E-005 * x + 7.9066E-004
R = 1.0000
DL = 2.919 ppb
BEC = 13.86 ppb

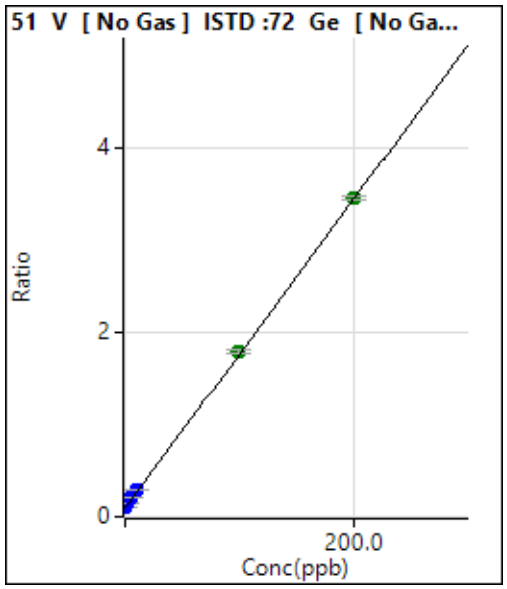
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.9	
2	☐	2.000	2.022	800.04	0.0007	P	11.0	1.1
3	☐	5.000	4.810	1860.16	0.0016	P	17.3	-3.8
4	☐	10.000	9.976	3777.24	0.0033	P	1.8	-0.2
5	☐	100.000	98.996	36779.08	0.0328	P	0.6	-1.0
6	☐	200.000	200.508	72907.57	0.0664	P	1.9	0.3

y = 3.3104E-004 * x + 1.4366E-005
R = 1.0000
DL = 0.09103 ppb
BEC = 0.0434 ppb

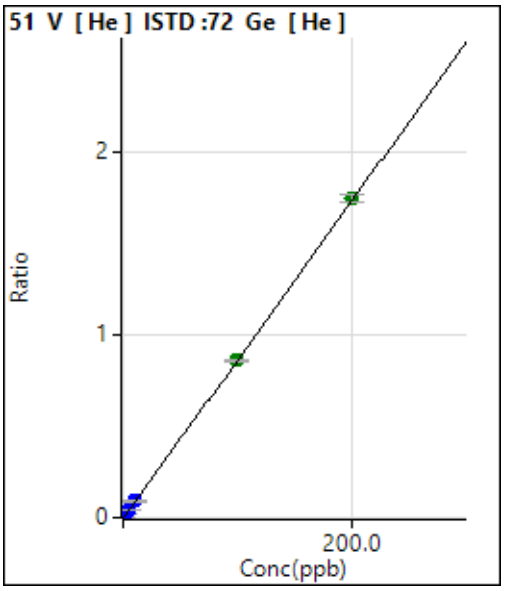
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	453557.67	0.1112	P	1.0	
2	☐	2.000	2.203	606605.10	0.1480	P	1.3	10.1
3	☐	5.000	5.439	822123.80	0.2021	P	1.7	8.8
4	☐	10.000	10.838	1178835.30	0.2924	P	0.8	8.4
5	☐	100.000	100.170	6974698.70	1.7858	A	1.5	0.2
6	☐	200.000	199.860	13309114.98	3.4524	A	1.8	-0.1

y = 0.0167 * x + 0.1112
R = 1.0000
DL = 0.1965 ppb
BEC = 6.652 ppb

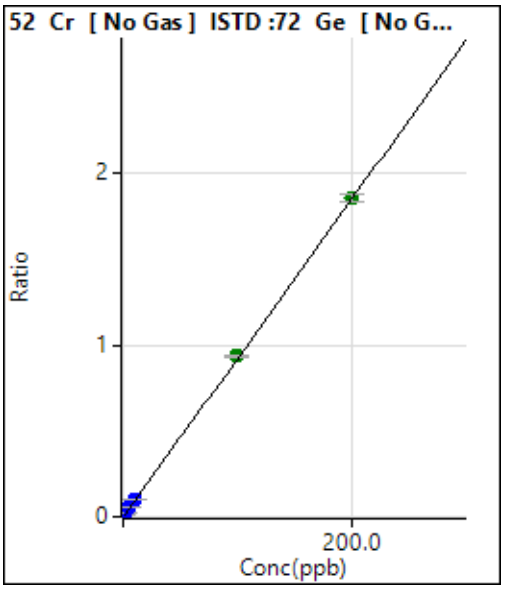
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3789.43	0.0033	P	2.9	
2	☐	2.000	1.908	23211.63	0.0198	P	2.8	-4.6
3	☐	5.000	4.765	51769.62	0.0447	P	2.8	-4.7
4	☐	10.000	10.002	102739.73	0.0902	P	2.0	0.0
5	☐	100.000	98.405	963216.11	0.8587	A	2.4	-1.6
6	☐	200.000	200.804	1920441.80	1.7488	A	1.9	0.4

y = 0.0087 * x + 0.0033
R = 1.0000
DL = 0.03223 ppb
BEC = 0.3747 ppb

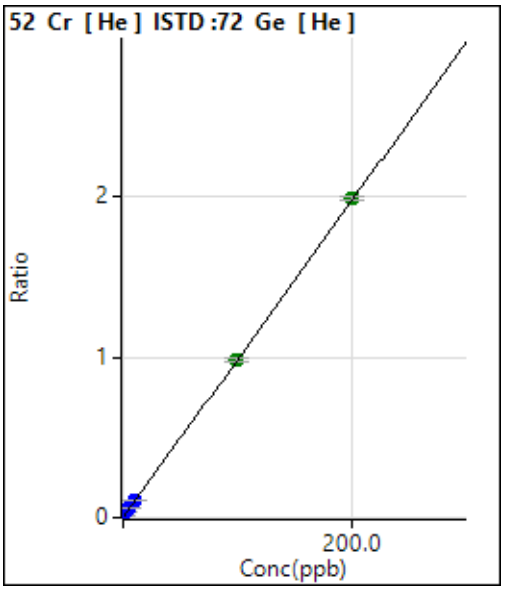
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27009.97	0.0066	P	1.4	
2	☐	2.000	2.049	104794.40	0.0256	P	2.0	2.4
3	☐	5.000	5.058	217253.33	0.0534	P	1.3	1.2
4	☐	10.000	10.151	405311.49	0.1005	P	1.1	1.5
5	☐	100.000	100.356	3651833.18	0.9350	A	1.4	0.4
6	☐	200.000	199.812	7151443.02	1.8551	A	1.9	-0.1

y = 0.0093 * x + 0.0066
R = 1.0000
DL = 0.02996 ppb
BEC = 0.7158 ppb

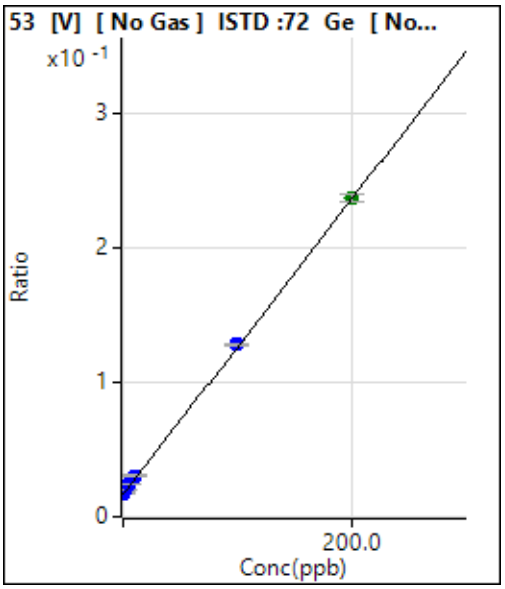
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12989.63	0.0112	P	1.0	
2	☐	2.000	1.929	35321.92	0.0302	P	0.7	-3.5
3	☐	5.000	4.833	68184.68	0.0588	P	3.8	-3.3
4	☐	10.000	10.101	126207.02	0.1108	P	0.8	1.0
5	☐	100.000	98.782	1105733.97	0.9858	A	2.6	-1.2
6	☐	200.000	200.609	2185686.32	1.9904	A	1.7	0.3

y = 0.0099 * x + 0.0112
R = 1.0000
DL = 0.03515 ppb
BEC = 1.132 ppb

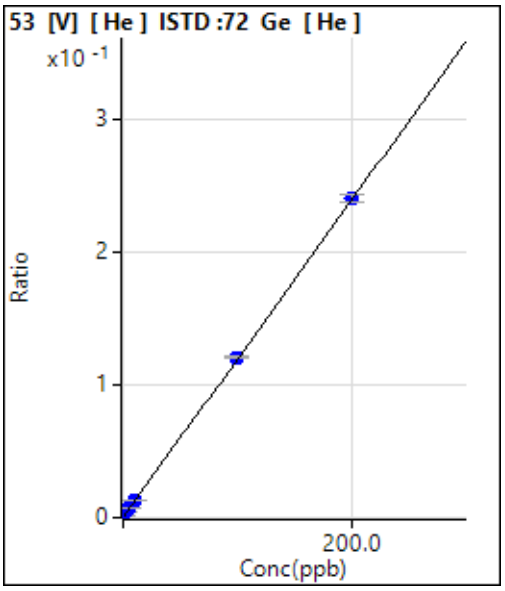
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	72744.09	0.0178	P	1.4	
2	☐	2.000	2.383	83819.92	0.0205	P	1.6	19.1
3	☐	5.000	5.854	98717.08	0.0243	P	1.9	17.1
4	☐	10.000	11.585	123252.36	0.0306	P	1.2	15.8
5	☐	100.000	100.263	500136.87	0.1281	P	1.7	0.3
6	☐	200.000	199.764	915310.85	0.2374	A	2.2	-0.1

y = 0.0011 * x + 0.0178
R = 1.0000
DL = 0.6802 ppb
BEC = 16.22 ppb

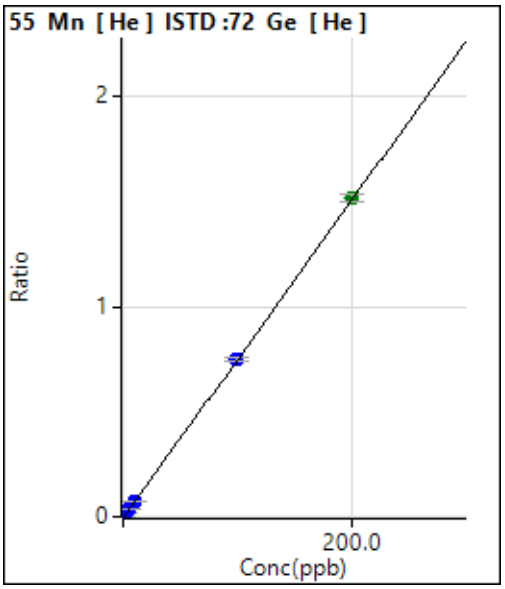
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1780.15	0.0015	P	5.1	
2	☐	2.000	2.026	4617.51	0.0039	P	4.8	1.3
3	☐	5.000	4.973	8649.55	0.0075	P	3.5	-0.5
4	☐	10.000	10.050	15395.48	0.0135	P	1.6	0.5
5	☐	100.000	99.818	135299.51	0.1206	P	1.7	-0.2
6	☐	200.000	200.089	263814.19	0.2402	P	2.0	0.0

y = 0.0012 * x + 0.0015
R = 1.0000
DL = 0.1952 ppb
BEC = 1.283 ppb

Weight: <None>
Min Conc: <None>

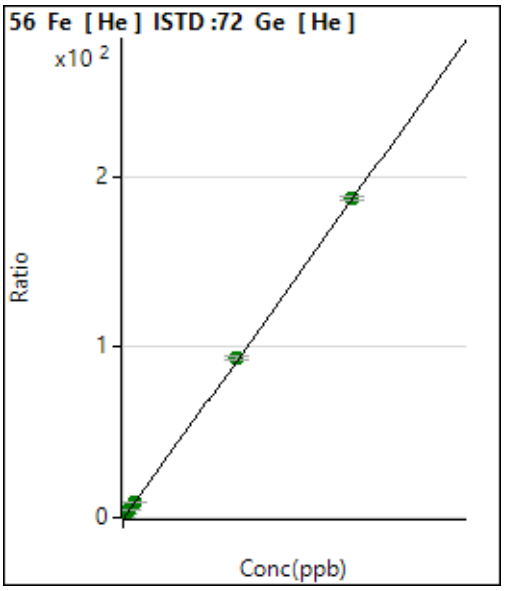


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	833.37	0.0007	P	6.3	
2	☐	2.000	1.930	17908.48	0.0153	P	3.6	-3.5
3	☐	5.000	4.849	43311.44	0.0374	P	3.3	-3.0
4	☐	10.000	10.045	87315.37	0.0767	P	2.5	0.4
5	☐	100.000	99.036	840741.34	0.7495	P	1.4	-1.0
6	☐	200.000	200.484	1665307.79	1.5165	A	2.0	0.2

y = 0.0076 * x + 7.1644E-004
R = 1.0000
DL = 0.01804 ppb
BEC = 0.09476 ppb

Weight: <None>
Min Conc: <None>

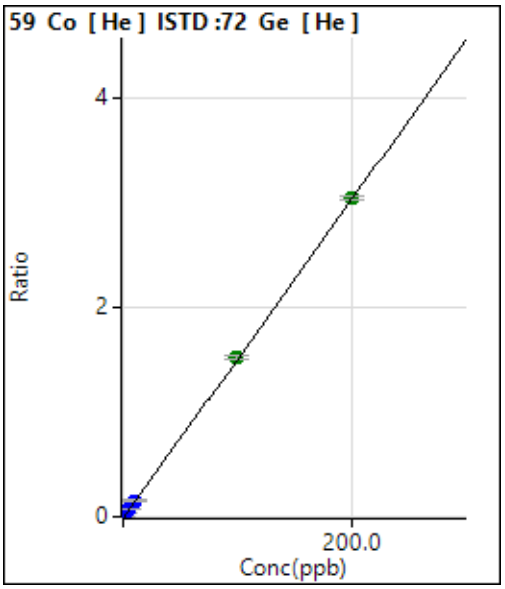
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20475.76	0.0176	P	4.5	
2	☐	200.000	194.991	2155481.11	1.8427	A	1.7	-2.5
3	☐	500.000	482.440	5252886.69	4.5333	A	2.2	-3.5
4	☐	1000.000	1005.981	10743919.84	9.4336	A	1.5	0.6
5	☐	10000.00	9986.993	104877321.7	93.4964	A	2.6	-0.1
6	☐	20000.00	20006.69	205654770.2	187.281	A	1.3	0.0

y = 0.0094 * x + 0.0176
R = 1.0000
DL = 0.2551 ppb
BEC = 1.881 ppb

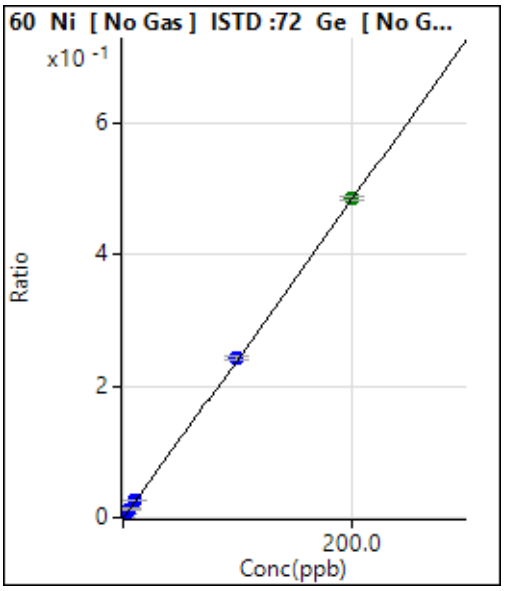
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0007	P	2.4	
2	☐	2.000	1.900	34687.26	0.0297	P	2.0	-5.0
3	☐	5.000	4.889	87151.55	0.0752	P	1.7	-2.2
4	☐	10.000	10.153	177025.39	0.1554	P	1.5	1.5
5	☐	100.000	100.015	1710770.03	1.5251	A	2.5	0.0
6	☐	200.000	199.989	3347949.12	3.0489	A	1.4	0.0

y = 0.0152 * x + 6.9061E-004
R = 1.0000
DL = 0.003301 ppb
BEC = 0.04531 ppb

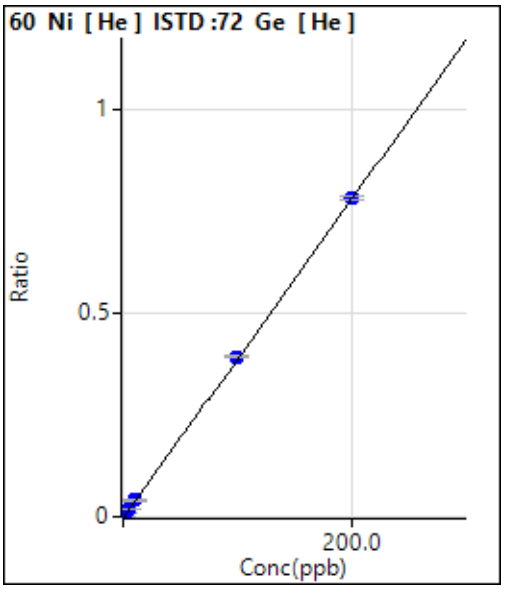
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3663.90	0.0009	P	6.0	
2	☐	2.000	1.981	23366.75	0.0057	P	2.6	-1.0
3	☐	5.000	5.016	53139.27	0.0131	P	2.0	0.3
4	☐	10.000	10.212	103486.37	0.0257	P	1.7	2.1
5	☐	100.000	99.922	950082.48	0.2433	P	1.7	-0.1
6	☐	200.000	200.028	1873903.56	0.4861	A	1.7	0.0

y = 0.0024 * x + 8.9818E-004
R = 1.0000
DL = 0.06666 ppb
BEC = 0.3703 ppb

Weight: <None>
Min Conc: <None>

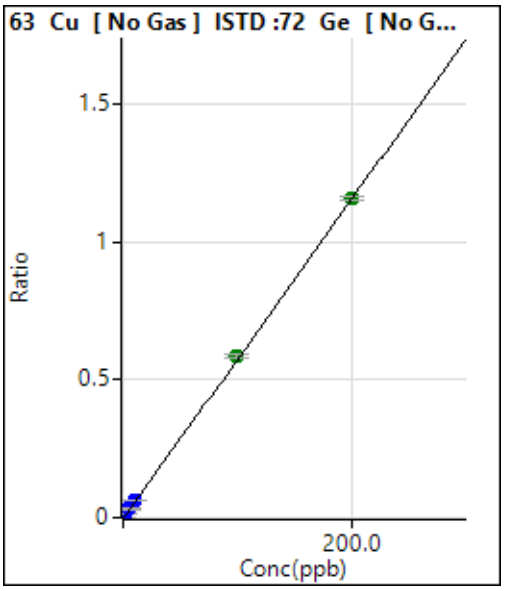


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	423.35	0.0004	P	7.7	
2	☐	2.000	2.006	9603.88	0.0082	P	8.5	0.3
3	☐	5.000	4.911	22675.72	0.0196	P	4.1	-1.8
4	☐	10.000	10.192	45806.41	0.0402	P	2.0	1.9
5	☐	100.000	100.267	440247.23	0.3925	P	1.7	0.3
6	☐	200.000	199.859	858608.89	0.7819	P	1.2	-0.1

y = 0.0039 * x + 3.6378E-004
R = 1.0000
DL = 0.02143 ppb
BEC = 0.09303 ppb

Weight: <None>
Min Conc: <None>

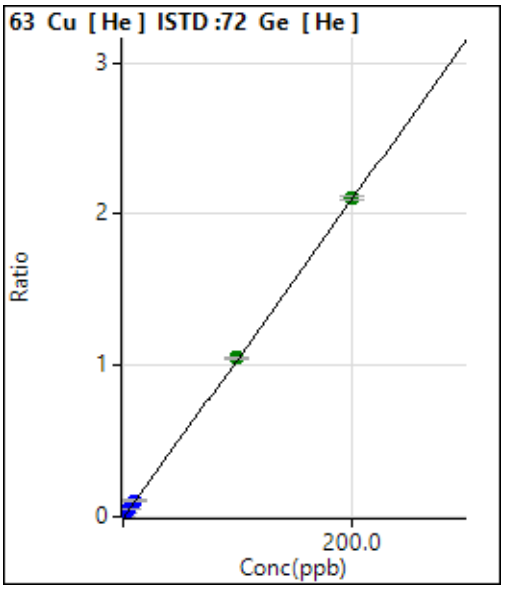
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7001.93	0.0017	P	3.3	
2	☐	2.000	2.122	57506.90	0.0140	P	1.1	6.1
3	☐	5.000	5.158	128742.09	0.0317	P	2.7	3.2
4	☐	10.000	10.297	247850.91	0.0615	P	1.3	3.0
5	☐	100.000	100.823	2291887.73	0.5868	A	1.7	0.8
6	☐	200.000	199.568	4471530.97	1.1599	A	1.3	-0.2

y = 0.0058 * x + 0.0017
R = 1.0000
DL = 0.02933 ppb
BEC = 0.2958 ppb

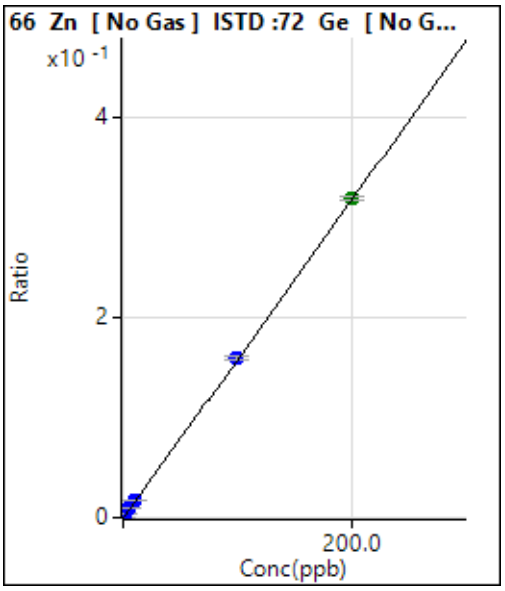
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	756.70	0.0007	P	11.7	
2	☐	2.000	1.992	25266.92	0.0216	P	3.2	-0.4
3	☐	5.000	4.802	59284.39	0.0512	P	0.4	-4.0
4	☐	10.000	10.180	122701.28	0.1077	P	1.5	1.8
5	☐	100.000	99.671	1176878.16	1.0492	A	1.4	-0.3
6	☐	200.000	200.161	2312817.31	2.1063	A	1.7	0.1

y = 0.0105 * x + 6.5039E-004
R = 1.0000
DL = 0.02176 ppb
BEC = 0.06183 ppb

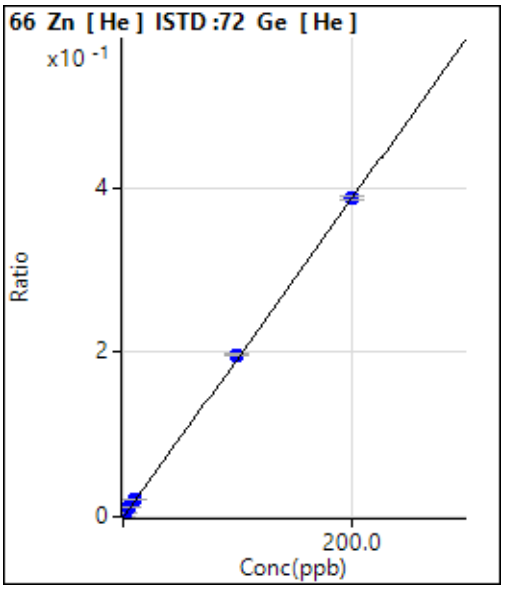
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2770.33	0.0007	P	4.5	
2	☐	2.000	2.457	18826.49	0.0046	P	2.9	22.9
3	☐	5.000	5.103	35833.69	0.0088	P	2.6	2.1
4	☐	10.000	10.003	66996.82	0.0166	P	0.2	0.0
5	☐	100.000	99.727	623213.06	0.1596	P	1.5	-0.3
6	☐	200.000	200.129	1231909.83	0.3195	A	1.5	0.1

y = 0.0016 * x + 6.7929E-004
R = 1.0000
DL = 0.0572 ppb
BEC = 0.4264 ppb

Weight: <None>
Min Conc: <None>

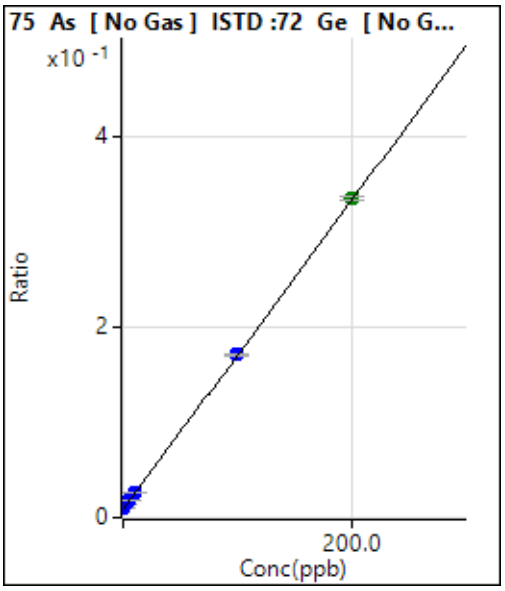


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	943.39	0.0008	P	8.6	
2	☐	2.000	2.445	6494.97	0.0056	P	5.6	22.3
3	☐	5.000	5.185	12589.39	0.0109	P	5.8	3.7
4	☐	10.000	10.236	23533.84	0.0207	P	2.4	2.4
5	☐	100.000	101.026	220719.51	0.1968	P	0.7	1.0
6	☐	200.000	199.466	425720.44	0.3877	P	1.7	-0.3

y = 0.0019 * x + 8.1072E-004
R = 1.0000
DL = 0.1075 ppb
BEC = 0.418 ppb

Weight: <None>
Min Conc: <None>

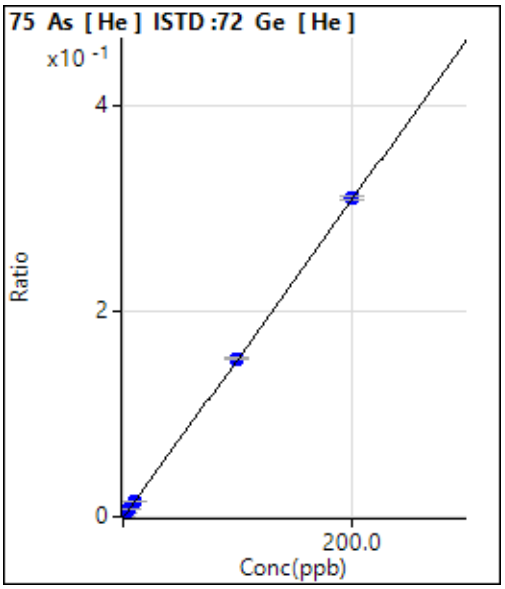
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	42061.77	0.0103	P	1.2	
2	☐	2.000	1.844	54502.39	0.0133	P	1.8	-7.8
3	☐	5.000	4.928	74412.41	0.0183	P	1.9	-1.4
4	☐	10.000	10.132	107748.90	0.0267	P	2.3	1.3
5	☐	100.000	99.327	668667.49	0.1712	P	1.4	-0.7
6	☐	200.000	200.333	1290763.26	0.3348	A	1.6	0.2

y = 0.0016 * x + 0.0103
R = 1.0000
DL = 0.2216 ppb
BEC = 6.366 ppb

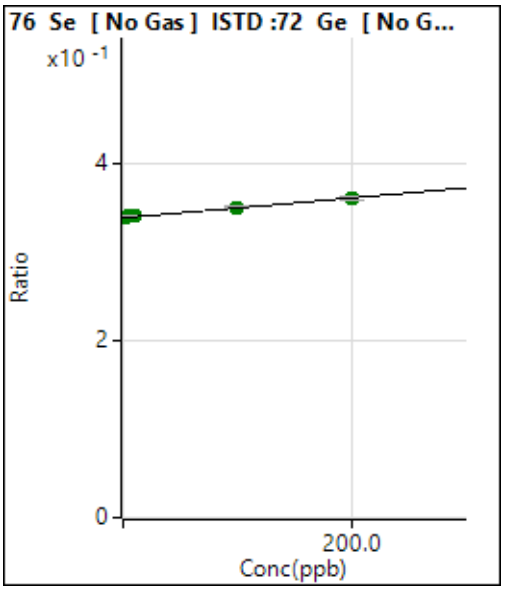
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	345.56	0.0003	P	1.2	
2	☐	2.000	1.877	3747.20	0.0032	P	1.4	-6.2
3	☐	5.000	4.902	9141.98	0.0079	P	3.0	-2.0
4	☐	10.000	9.915	17827.23	0.0157	P	2.1	-0.9
5	☐	100.000	99.344	172929.96	0.1542	P	1.3	-0.7
6	☐	200.000	200.336	341030.84	0.3106	P	1.3	0.2

y = 0.0015 * x + 2.9704E-004
R = 1.0000
DL = 0.0069 ppb
BEC = 0.1918 ppb

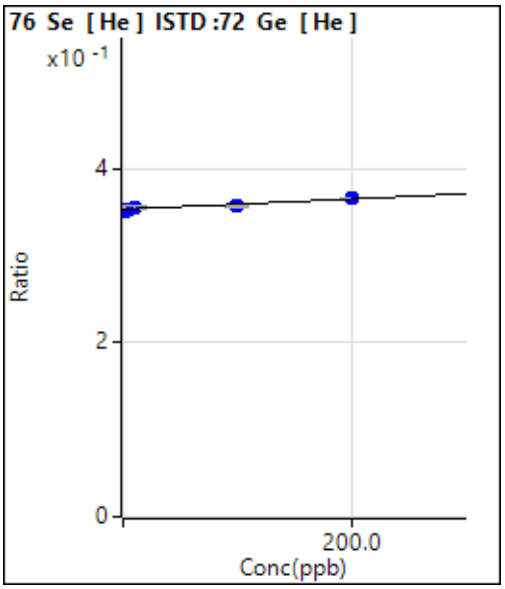
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1382797.01	0.3390	A	0.2	
2	☐	2.000	7.546	1392932.79	0.3399	A	0.6	277.3
3	☐	5.000	16.516	1386656.39	0.3409	A	0.7	230.3
4	☐	10.000	22.842	1377368.00	0.3416	A	0.5	128.4
5	☐	100.000	107.710	1371910.14	0.3513	A	0.4	7.7
6	☐	200.000	195.159	1392566.85	0.3612	A	0.8	-2.4

y = 1.1375E-004 * x + 0.3390
R = 0.9976
DL = 14.1 ppb
BEC = 2980 ppb

Weight: <None>
Min Conc: <None>

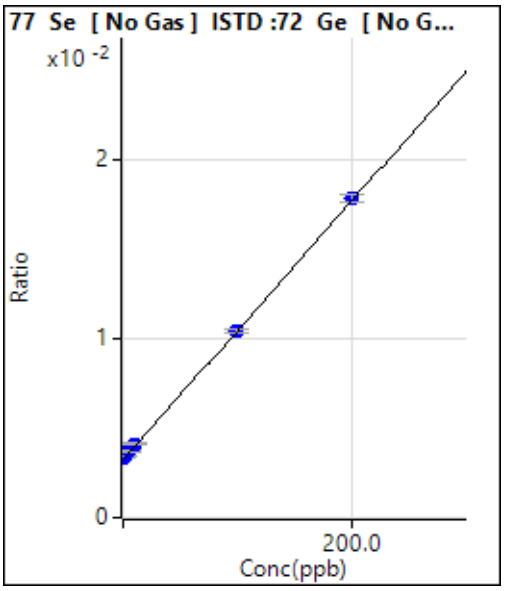


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	410886.54	0.3532	P	0.6	
2	☐	2.000	-30.509	410981.36	0.3514	P	0.5	-1625.4
3	☐	5.000	6.630	409698.93	0.3536	P	0.5	32.6
4	☐	10.000	37.447	404724.50	0.3554	P	1.2	274.5
5	☐	100.000	63.444	400470.54	0.3570	P	0.8	-36.6
6	☐	200.000	217.190	402112.69	0.3662	P	0.6	8.6

y = 6.0005E-005 * x + 0.3532
R = 0.9567
DL = 114.1 ppb
BEC = 5886 ppb

Weight: <None>
Min Conc: <None>

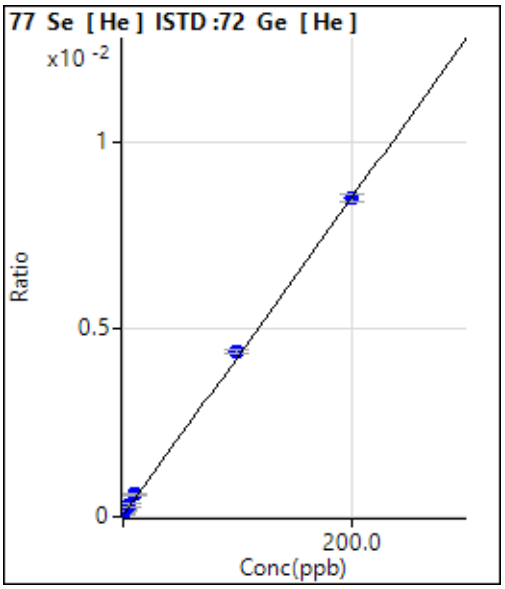
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13620.34	0.0033	P	3.1	
2	☐	2.000	1.476	14124.23	0.0034	P	1.5	-26.2
3	☐	5.000	5.362	15162.02	0.0037	P	4.1	7.2
4	☐	10.000	10.741	16600.31	0.0041	P	2.7	7.4
5	☐	100.000	98.052	40764.54	0.0104	P	1.3	-1.9
6	☐	200.000	200.933	68940.67	0.0179	P	2.8	0.5

y = 7.2386E-005 * x + 0.0033
R = 0.9999
DL = 4.245 ppb
BEC = 46.14 ppb

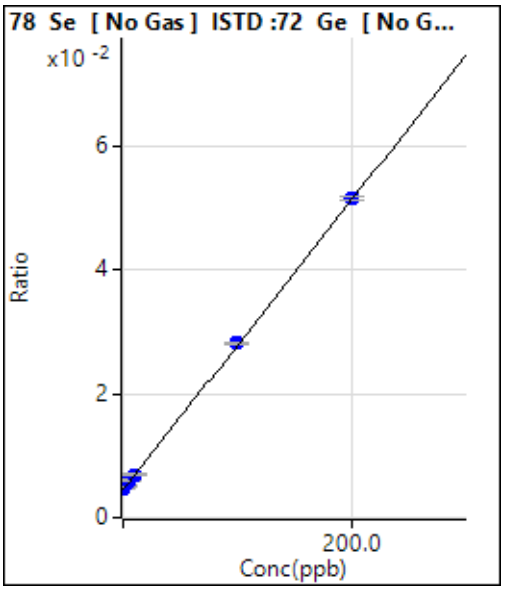
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	33.8	
2	☐	2.000	2.683	223.34	0.0002	P	18.6	34.2
3	☐	5.000	5.579	363.35	0.0003	P	25.2	11.6
4	☐	10.000	12.209	676.70	0.0006	P	7.8	22.1
5	☐	100.000	102.033	4934.31	0.0044	P	1.4	2.0
6	☐	200.000	198.852	9333.38	0.0085	P	2.9	-0.6

y = 4.2351E-005 * x + 7.7431E-005
R = 0.9999
DL = 1.854 ppb
BEC = 1.828 ppb

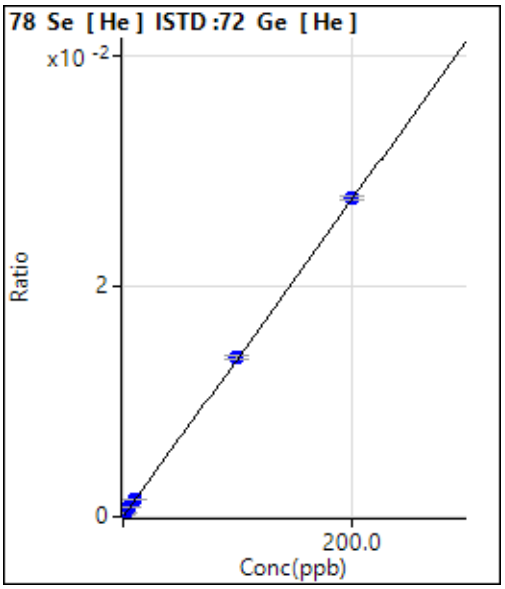
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19400.68	0.0048	P	1.7	
2	☐	2.000	1.841	21260.28	0.0052	P	2.2	-7.9
3	☐	5.000	5.386	24478.98	0.0060	P	2.5	7.7
4	☐	10.000	9.504	28156.05	0.0070	P	1.9	-5.0
5	☐	100.000	99.882	109978.08	0.0282	P	1.7	-0.1
6	☐	200.000	200.076	199052.68	0.0516	P	1.2	0.0

y = 2.3430E-004 * x + 0.0048
R = 1.0000
DL = 1.022 ppb
BEC = 20.3 ppb

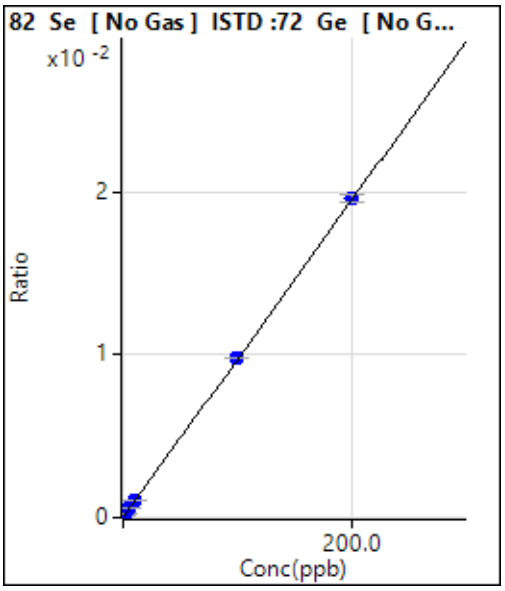
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	3.7	
2	☐	2.000	1.892	458.01	0.0004	P	11.0	-5.4
3	☐	5.000	5.225	984.04	0.0008	P	6.2	4.5
4	☐	10.000	9.775	1678.78	0.0015	P	1.1	-2.3
5	☐	100.000	99.540	15483.46	0.0138	P	2.3	-0.5
6	☐	200.000	200.237	30342.99	0.0276	P	1.7	0.1

y = 1.3734E-004 * x + 1.3179E-004
R = 1.0000
DL = 0.1055 ppb
BEC = 0.9596 ppb

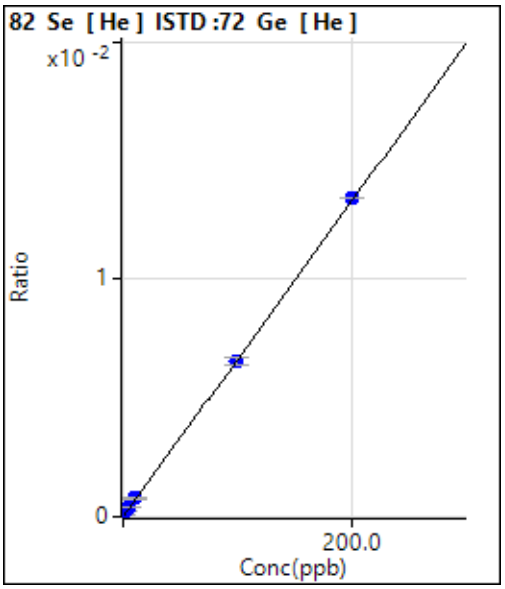
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.01	0.0001	P	4.8	
2	☐	2.000	1.782	1153.40	0.0003	P	9.6	-10.9
3	☐	5.000	5.173	2486.94	0.0006	P	6.5	3.5
4	☐	10.000	10.120	4407.46	0.0011	P	4.1	1.2
5	☐	100.000	99.557	38274.21	0.0098	P	1.0	-0.4
6	☐	200.000	200.214	75553.20	0.0196	P	2.4	0.1

y = 9.7352E-005 * x + 1.0789E-004
R = 1.0000
DL = 0.1583 ppb
BEC = 1.108 ppb

Weight: <None>
Min Conc: <None>

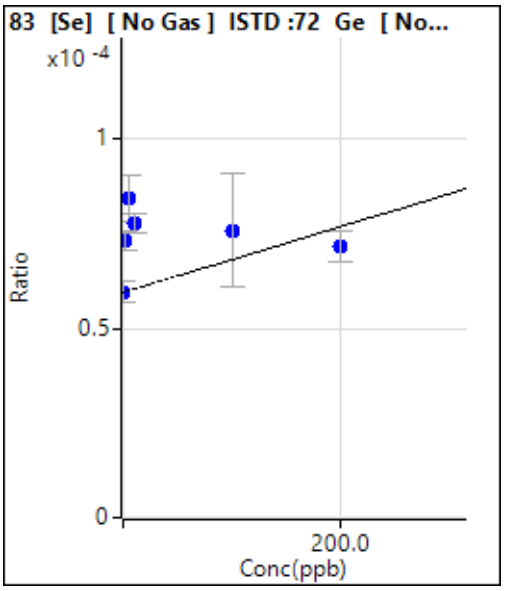


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	8.0	
2	☐	2.000	2.568	276.68	0.0002	P	13.5	28.4
3	☐	5.000	4.939	456.69	0.0004	P	7.8	-1.2
4	☐	10.000	10.776	890.04	0.0008	P	4.9	7.8
5	☐	100.000	97.662	7352.12	0.0066	P	3.8	-2.3
6	☐	200.000	201.126	14744.90	0.0134	P	0.1	0.6

y = 6.6438E-005 * x + 6.5918E-005
R = 0.9999
DL = 0.2387 ppb
BEC = 0.9922 ppb

Weight: <None>
Min Conc: <None>

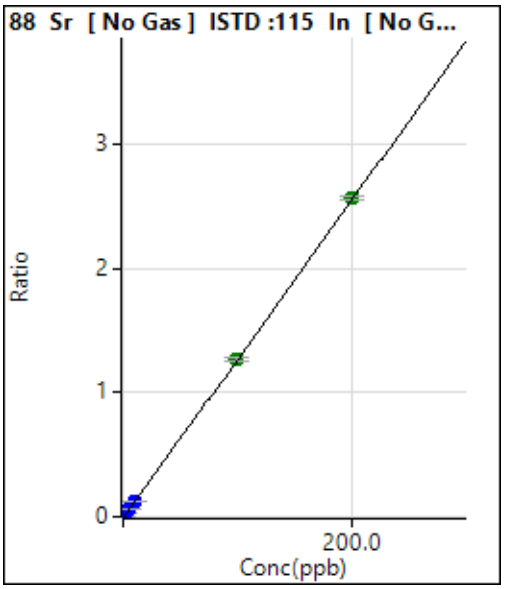
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0001	P	9.0	
2	☐	2.000	155.471	300.01	0.0001	P	6.4	7673.6
3	☐	5.000	283.571	343.34	0.0001	P	14.4	5571.4
4	☐	10.000	206.868	313.34	0.0001	P	6.5	1968.7
5	☐	100.000	186.831	296.68	0.0001	P	39.1	86.8
6	☐	200.000	138.242	276.68	0.0001	P	10.8	-30.9

y = 8.7337E-008 * x + 5.9645E-005
R = -0.0305
DL = 185.1 ppb
BEC = 682.9 ppb

Weight: <None>
Min Conc: <None>

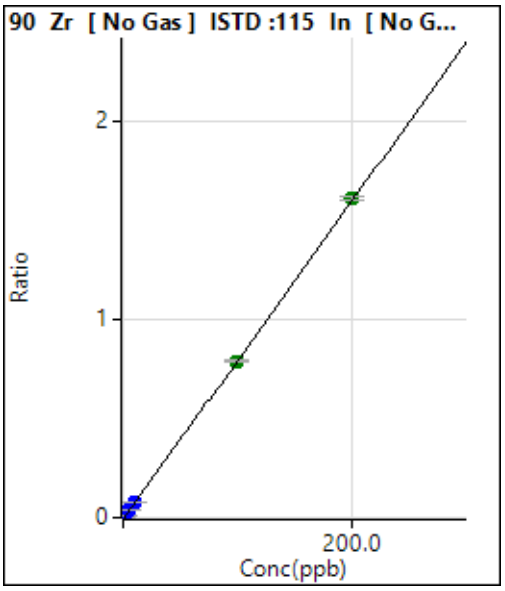


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3443.83	0.0007	P	3.3	
2	☐	2.000	1.949	131827.46	0.0257	P	1.2	-2.5
3	☐	5.000	4.810	320927.11	0.0623	P	1.5	-3.8
4	☐	10.000	9.718	641791.93	0.1253	P	1.2	-2.8
5	☐	100.000	99.087	6355008.03	1.2711	A	1.6	-0.9
6	☐	200.000	200.476	12478416.90	2.5710	A	1.8	0.2

y = 0.0128 * x + 6.6940E-004
R = 1.0000
DL = 0.005164 ppb
BEC = 0.05221 ppb

Weight: <None>
Min Conc: <None>

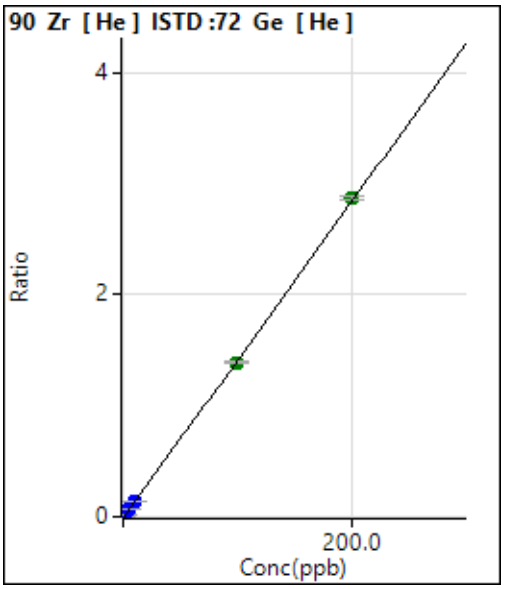
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.09	0.0003	P	4.3	
2	☐	2.000	1.668	69980.91	0.0136	P	0.7	-16.6
3	☐	5.000	4.367	181449.79	0.0352	P	1.6	-12.7
4	☐	10.000	9.208	379299.12	0.0740	P	0.3	-7.9
5	☐	100.000	98.197	3934941.40	0.7870	A	1.3	-1.8
6	☐	200.000	200.960	7816321.76	1.6104	A	1.5	0.5

y = 0.0080 * x + 2.5467E-004
R = 0.9999
DL = 0.004084 ppb
BEC = 0.03178 ppb

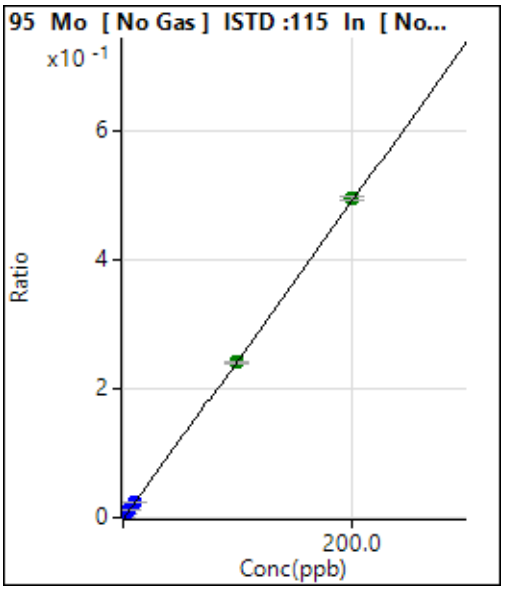
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1793.49	0.0015	P	9.9	
2	☐	2.000	1.582	28153.13	0.0241	P	2.2	-20.9
3	☐	5.000	4.293	72628.27	0.0627	P	3.5	-14.1
4	☐	10.000	9.248	151728.95	0.1332	P	1.5	-7.5
5	☐	100.000	97.451	1558273.26	1.3891	A	2.0	-2.5
6	☐	200.000	201.334	3149651.93	2.8683	A	1.6	0.7

y = 0.0142 * x + 0.0015
R = 0.9999
DL = 0.03205 ppb
BEC = 0.1083 ppb

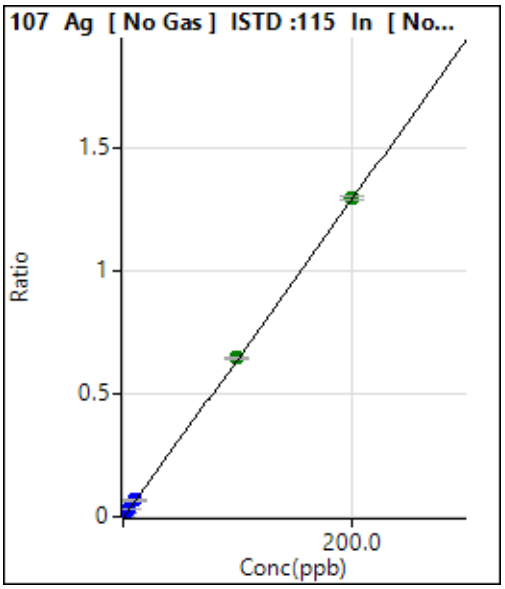
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0000	P	14.1	
2	☐	2.000	1.963	25043.84	0.0049	P	4.6	-1.9
3	☐	5.000	4.863	61895.32	0.0120	P	1.9	-2.7
4	☐	10.000	9.786	123764.89	0.0242	P	0.4	-2.1
5	☐	100.000	97.785	1205195.30	0.2410	A	1.6	-2.2
6	☐	200.000	201.122	2406098.45	0.4957	A	1.3	0.6

y = 0.0025 * x + 3.6939E-005
R = 0.9999
DL = 0.006329 ppb
BEC = 0.01499 ppb

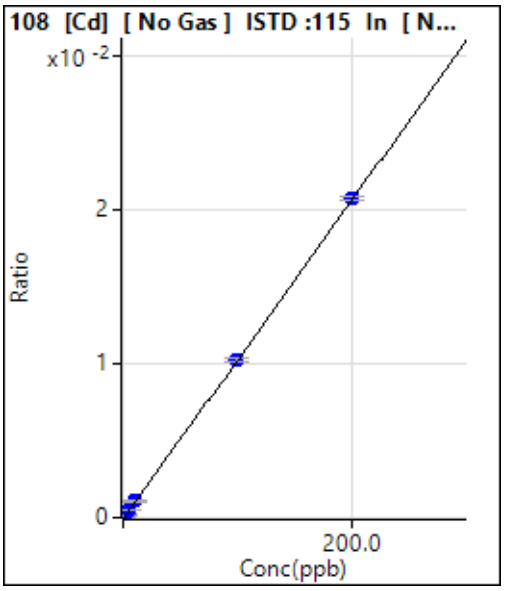
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1130.07	0.0002	P	6.4	
2	☐	2.000	2.055	69617.39	0.0135	P	2.1	2.8
3	☐	5.000	5.082	170821.07	0.0332	P	2.2	1.6
4	☐	10.000	10.252	341807.09	0.0667	P	1.1	2.5
5	☐	100.000	99.713	3234625.68	0.6470	A	1.8	-0.3
6	☐	200.000	200.128	6301259.49	1.2983	A	1.6	0.1

y = 0.0065 * x + 2.1968E-004
R = 1.0000
DL = 0.006466 ppb
BEC = 0.03387 ppb

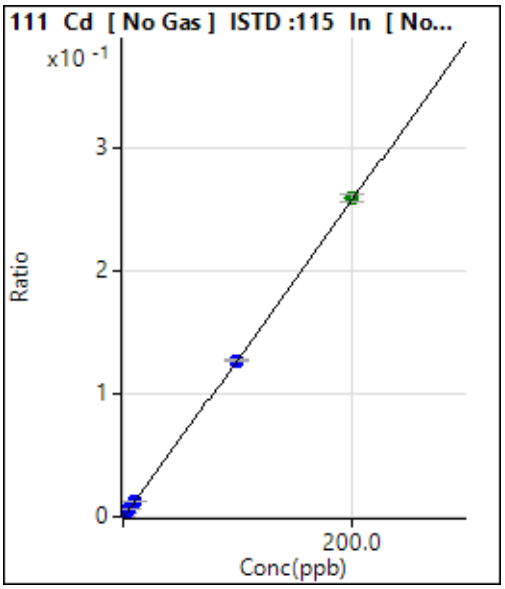
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	86.6	
2	☐	2.000	1.851	1003.39	0.0002	P	9.5	-7.5
3	☐	5.000	4.555	2443.59	0.0005	P	5.0	-8.9
4	☐	10.000	10.261	5454.56	0.0011	P	5.1	2.6
5	☐	100.000	99.244	51312.02	0.0103	P	2.7	-0.8
6	☐	200.000	200.378	100553.55	0.0207	P	1.8	0.2

y = 1.0337E-004 * x + 3.8826E-006
R = 1.0000
DL = 0.09758 ppb
BEC = 0.03756 ppb

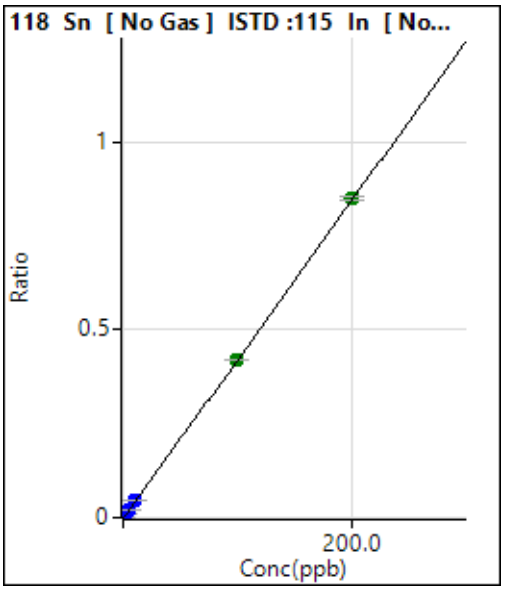
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1.87	0.0000	P	1877.	
2	☐	2.000	2.067	13751.81	0.0027	P	2.3	3.3
3	☐	5.000	4.975	33166.39	0.0064	P	2.7	-0.5
4	☐	10.000	9.969	66141.43	0.0129	P	1.3	-0.3
5	☐	100.000	98.429	637239.95	0.1275	P	2.1	-1.6
6	☐	200.000	200.787	1261910.71	0.2600	A	2.1	0.4

y = 0.0013 * x + 3.7572E-007
R = 1.0000
DL = 0.01634 ppb
BEC = 0.0002902 ppb

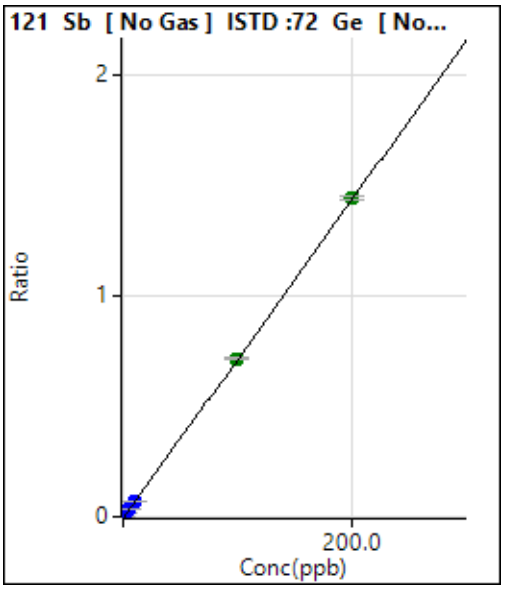
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6481.70	0.0013	P	3.9	
2	☐	2.000	2.034	50780.98	0.0099	P	1.8	1.7
3	☐	5.000	4.924	113983.02	0.0221	P	1.3	-1.5
4	☐	10.000	10.016	224036.87	0.0437	P	0.4	0.2
5	☐	100.000	99.133	2107880.75	0.4216	A	0.5	-0.9
6	☐	200.000	200.434	4131092.85	0.8511	A	1.0	0.2

y = 0.0042 * x + 0.0013
R = 1.0000
DL = 0.03505 ppb
BEC = 0.2971 ppb

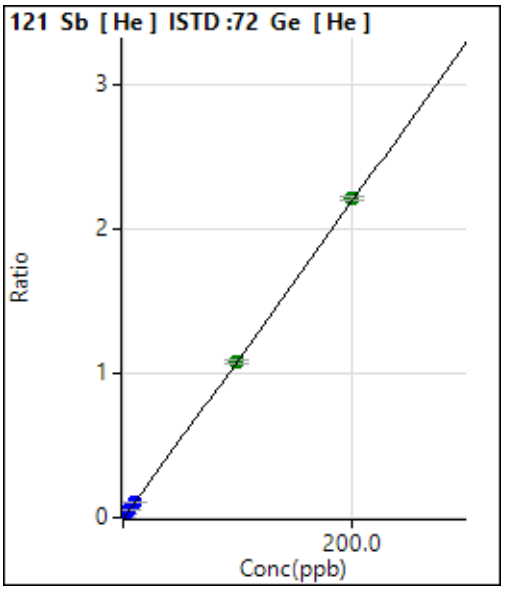
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	596.69	0.0001	P	5.4	
2	☐	2.000	2.025	60330.69	0.0147	P	3.0	1.2
3	☐	5.000	5.016	147472.58	0.0363	P	0.7	0.3
4	☐	10.000	10.057	292505.77	0.0725	P	1.5	0.6
5	☐	100.000	99.225	2790506.63	0.7145	A	1.2	-0.8
6	☐	200.000	200.384	5562198.46	1.4428	A	1.3	0.2

y = 0.0072 * x + 1.4629E-004
R = 1.0000
DL = 0.0033 ppb
BEC = 0.02032 ppb

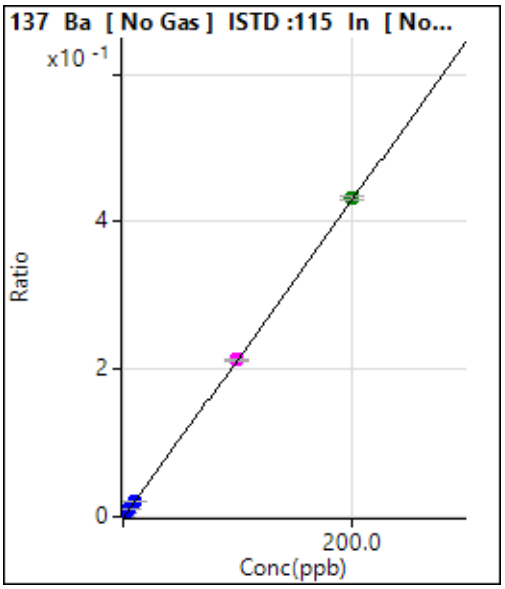
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.67	0.0002	P	27.7	
2	☐	2.000	1.929	25084.10	0.0214	P	2.4	-3.5
3	☐	5.000	4.803	61523.29	0.0531	P	4.6	-3.9
4	☐	10.000	9.973	125278.34	0.1100	P	1.2	-0.3
5	☐	100.000	97.652	1206188.45	1.0753	A	2.3	-2.3
6	☐	200.000	201.181	2432430.90	2.2151	A	1.6	0.6

y = 0.0110 * x + 2.0354E-004
R = 0.9999
DL = 0.01534 ppb
BEC = 0.01849 ppb

Weight: <None>
Min Conc: <None>

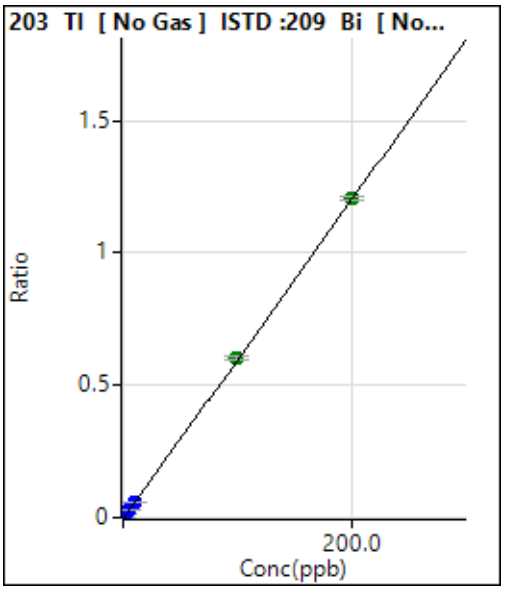


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	770.03	0.0001	P	9.7	
2	☐	2.000	2.176	24847.13	0.0048	P	2.7	8.8
3	☐	5.000	4.841	54449.82	0.0106	P	4.8	-3.2
4	☐	10.000	9.911	110132.49	0.0215	P	1.2	-0.9
5	☐	100.000	98.606	1062547.56	0.2125	M	0.9	-1.4
6	☐	200.000	200.704	2098757.68	0.4324	A	1.7	0.4

y = 0.0022 * x + 1.4967E-004
R = 1.0000
DL = 0.02027 ppb
BEC = 0.06949 ppb

Weight: <None>
Min Conc: <None>

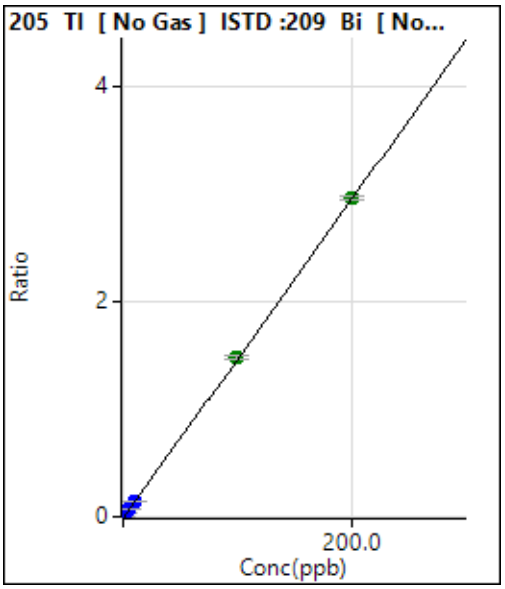
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1063.39	0.0002	P	4.7	
2	☐	2.000	1.864	56952.25	0.0115	P	0.9	-6.8
3	☐	5.000	4.855	146964.38	0.0295	P	3.0	-2.9
4	☐	10.000	9.930	303207.52	0.0602	P	1.1	-0.7
5	☐	100.000	100.133	2957484.85	0.6047	A	2.1	0.1
6	☐	200.000	199.942	5896563.24	1.2072	A	1.2	0.0

y = 0.0060 * x + 2.1508E-004
R = 1.0000
DL = 0.005027 ppb
BEC = 0.03563 ppb

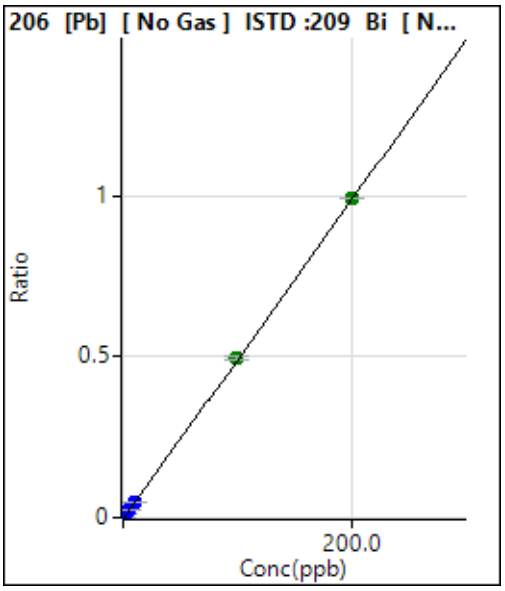
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2733.67	0.0006	P	8.7	
2	☐	2.000	1.800	135292.49	0.0272	P	3.1	-10.0
3	☐	5.000	4.693	349043.55	0.0701	P	1.7	-6.1
4	☐	10.000	9.618	721276.55	0.1431	P	1.4	-3.8
5	☐	100.000	100.235	7269242.39	1.4863	A	3.0	0.2
6	☐	200.000	199.911	14476418.54	2.9638	A	0.8	0.0

y = 0.0148 * x + 5.5313E-004
R = 1.0000
DL = 0.009768 ppb
BEC = 0.03732 ppb

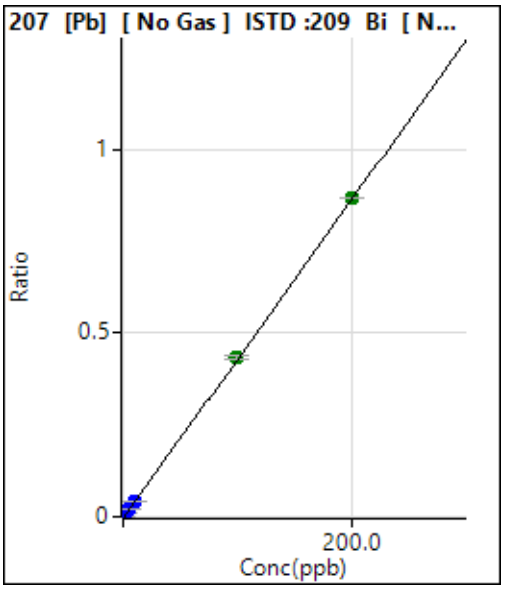
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1283.43	0.0003	P	9.3	
2	☐	2.000	2.040	51592.69	0.0104	P	0.1	2.0
3	☐	5.000	4.992	124661.17	0.0250	P	2.2	-0.2
4	☐	10.000	9.948	250236.17	0.0497	P	2.0	-0.5
5	☐	100.000	99.962	2428589.13	0.4965	A	2.4	0.0
6	☐	200.000	200.022	4851910.13	0.9933	A	0.0	0.0

y = 0.0050 * x + 2.5971E-004
R = 1.0000
DL = 0.01455 ppb
BEC = 0.05231 ppb

Weight: <None>
Min Conc: <None>

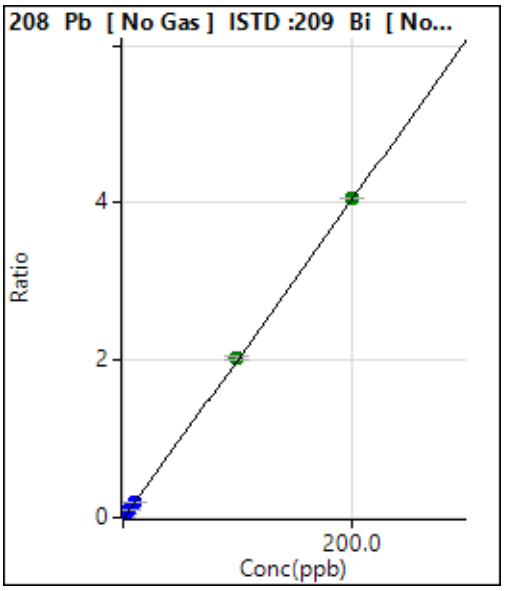


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1186.75	0.0002	P	2.8	
2	☐	2.000	1.973	43739.78	0.0088	P	4.1	-1.3
3	☐	5.000	4.929	107645.92	0.0216	P	3.2	-1.4
4	☐	10.000	9.929	218349.87	0.0433	P	1.1	-0.7
5	☐	100.000	99.842	2120187.93	0.4335	A	2.3	-0.2
6	☐	200.000	200.085	4242060.04	0.8685	A	0.3	0.0

y = 0.0043 * x + 2.4000E-004
R = 1.0000
DL = 0.004669 ppb
BEC = 0.05531 ppb

Weight: <None>
Min Conc: <None>

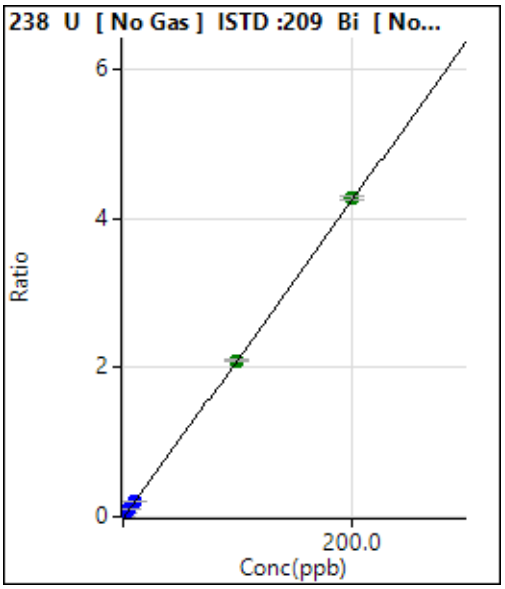
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5470.59	0.0011	P	3.2	
2	☐	2.000	1.953	202278.69	0.0407	P	2.0	-2.3
3	☐	5.000	4.833	493260.76	0.0991	P	1.5	-3.3
4	☐	10.000	9.730	999973.48	0.1984	P	1.6	-2.7
5	☐	100.000	99.663	9889606.15	2.0220	A	2.0	-0.3
6	☐	200.000	200.187	19833060.43	4.0603	A	0.6	0.1

y = 0.0203 * x + 0.0011
R = 1.0000
DL = 0.005191 ppb
BEC = 0.05457 ppb

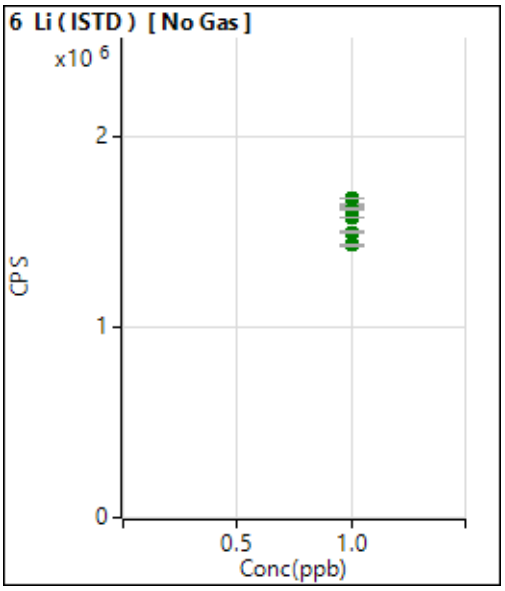
Weight: <None>
Min Conc: <None>



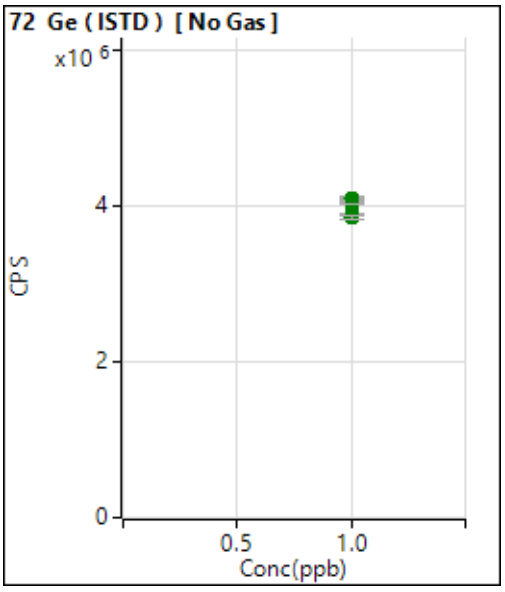
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3840.69	0.0008	P	2.4	
2	☐	2.000	1.852	199597.32	0.0402	P	1.2	-7.4
3	☐	5.000	4.633	494594.50	0.0994	P	0.6	-7.3
4	☐	10.000	9.370	1008708.24	0.2001	P	1.3	-6.3
5	☐	100.000	98.429	10247644.64	2.0951	A	1.7	-1.6
6	☐	200.000	200.828	20877186.77	4.2740	A	1.5	0.4

y = 0.0213 * x + 7.7664E-004
R = 1.0000
DL = 0.002649 ppb
BEC = 0.0365 ppb

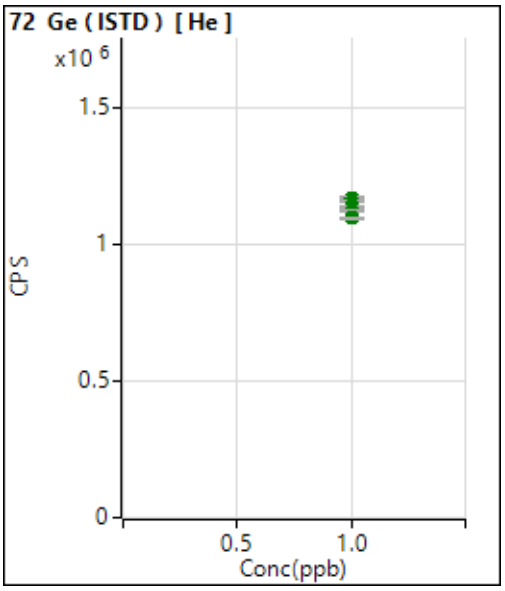
Weight: <None>
Min Conc: <None>



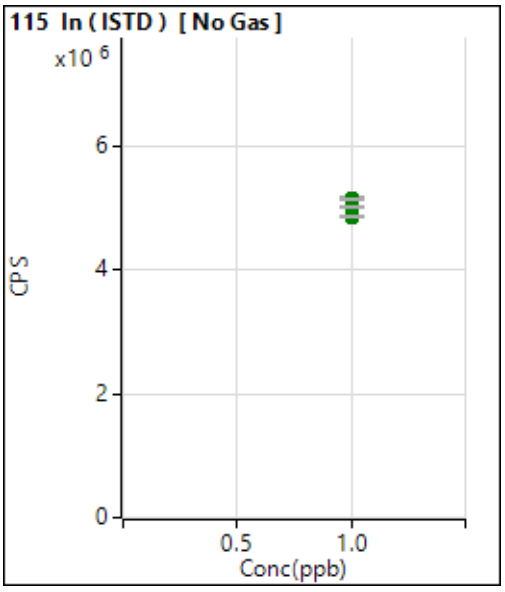
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1676118.60		A	0.5	
2	☐	1.000		1639782.03		A	0.4	
3	☐	1.000		1617926.82		A	0.3	
4	☐	1.000		1575065.32		A	0.6	
5	☐	1.000		1497357.81		A	0.5	
6	☐	1.000		1429491.40		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4078799.42		A	0.6	
2	☐	1.000		4098266.40		A	0.7	
3	☐	1.000		4067729.52		A	0.7	
4	☐	1.000		4031887.75		A	0.2	
5	☐	1.000		3905522.13		A	0.4	
6	☐	1.000		3855346.19		A	0.9	

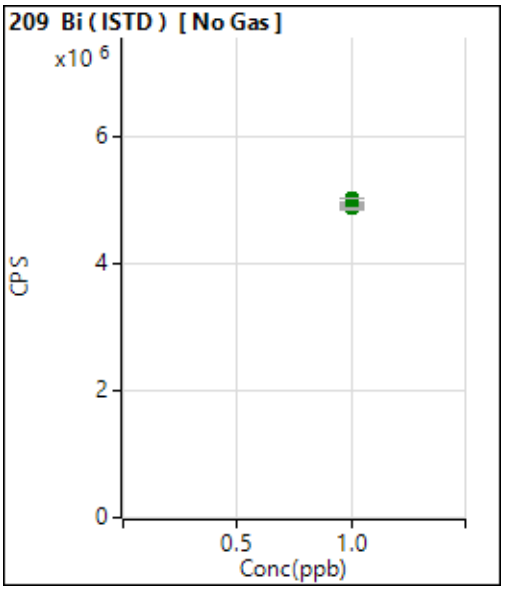


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1163380.53		A	0.6	
2	☐	1.000		1169709.75		A	0.6	
3	☐	1.000		1158721.52		A	0.7	
4	☐	1.000		1138781.05		A	1.1	
5	☐	1.000		1121782.67		A	0.7	
6	☐	1.000		1098050.29		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5144582.62		A	0.2	
2	☐	1.000		5137782.22		A	0.6	
3	☐	1.000		5148852.71		A	1.1	
4	☐	1.000		5123281.63		A	0.7	
5	☐	1.000		4999629.60		A	0.6	
6	☐	1.000		4853657.02		A	0.2	

Calibration for 123_ICV.d

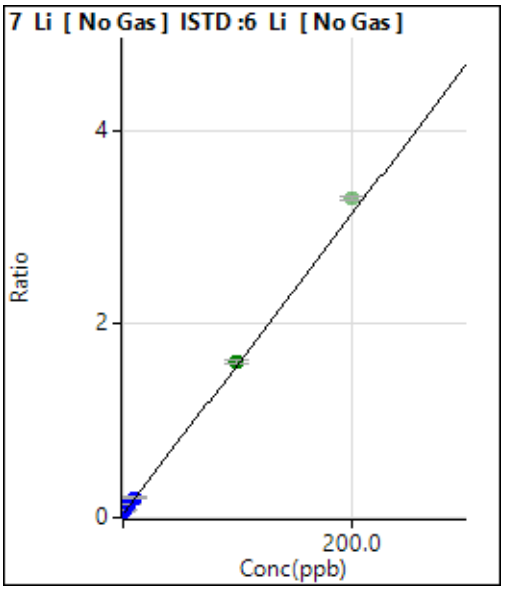


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4944445.55		A	1.4	
2	☐	1.000		4967616.70		A	1.0	
3	☐	1.000		4977585.03		A	0.1	
4	☐	1.000		5040043.05		A	0.3	
5	☐	1.000		4891836.59		A	1.2	
6	☐	1.000		4884540.86		A	0.8	

Calibration for 019_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

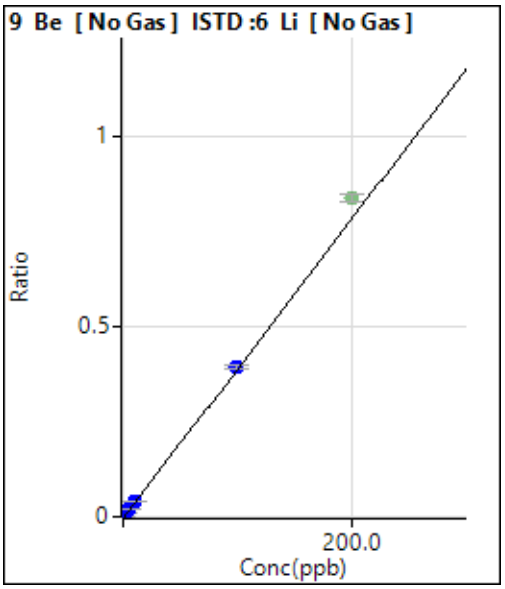
Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/25/2024 10:33:10 AM
2	011CALS.d	2/10/200	6/25/2024 10:35:53 AM
3	012CALS.d	5/25/500	6/25/2024 10:38:34 AM
4	013CALS.d	10/50/100	6/25/2024 10:41:15 AM
5	017CALS.d	100/500/10K	6/25/2024 10:54:32 AM
6	015CALS.d	200/1000/20K	6/25/2024 10:46:33 AM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95109.43	0.0556	P	0.2	
2	☐	2.000	1.920	146884.63	0.0853	P	1.6	-4.0
3	☐	5.000	4.841	218591.44	0.1304	P	1.3	-3.2
4	☐	10.000	9.815	340796.34	0.2073	P	1.2	-1.9
5	☐	100.000	100.028	2490753.19	1.6010	A	2.6	0.0
6	☑	200.000		4828676.80	3.2967	A	1.3	

y = 0.0154 * x + 0.0556
R = 1.0000
DL = 0.02597 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

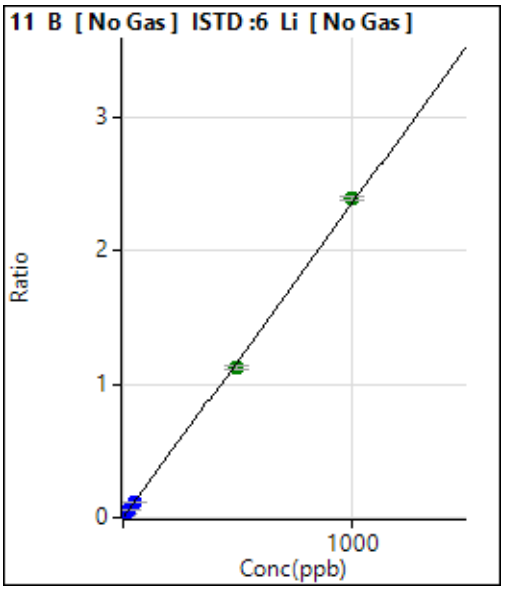


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0002	P	5.8	
2	☐	2.000	1.913	13332.98	0.0077	P	2.5	-4.3
3	☐	5.000	4.795	31982.57	0.0191	P	2.3	-4.1
4	☐	10.000	9.736	63339.98	0.0385	P	1.5	-2.6
5	☐	100.000	100.038	612588.03	0.3938	P	2.9	0.0
6	☑	200.000		1228024.38	0.8384	A	2.0	

y = 0.0039 * x + 2.1639E-004
R = 1.0000
DL = 0.009619 ppb
BEC = 0.055 ppb

Weight: <None>
Min Conc: <None>

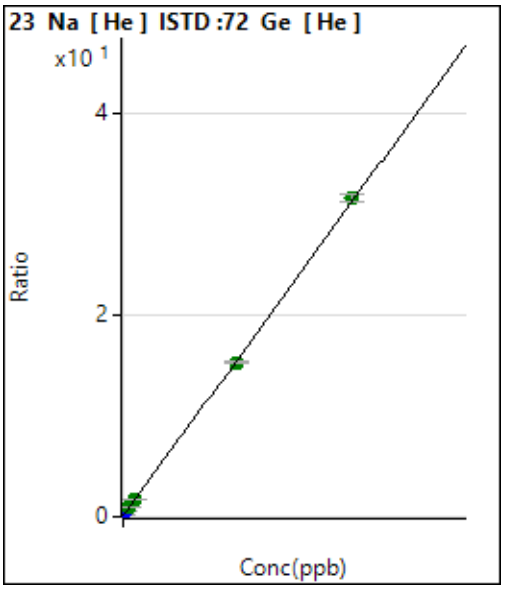
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19585.24	0.0115	P	1.0	
2	☐	10.000	8.404	53786.34	0.0312	P	2.6	-16.0
3	☐	25.000	22.147	106565.72	0.0636	P	0.9	-11.4
4	☐	50.000	46.381	198326.89	0.1206	P	2.3	-7.2
5	☐	500.000	473.544	1751959.19	1.1260	A	1.6	-5.3
6	☐	1000.000	1013.496	3510760.36	2.3969	A	1.3	1.3

y = 0.0024 * x + 0.0115
R = 0.9995
DL = 0.1393 ppb
BEC = 4.866 ppb

Weight: <None>
Min Conc: <None>

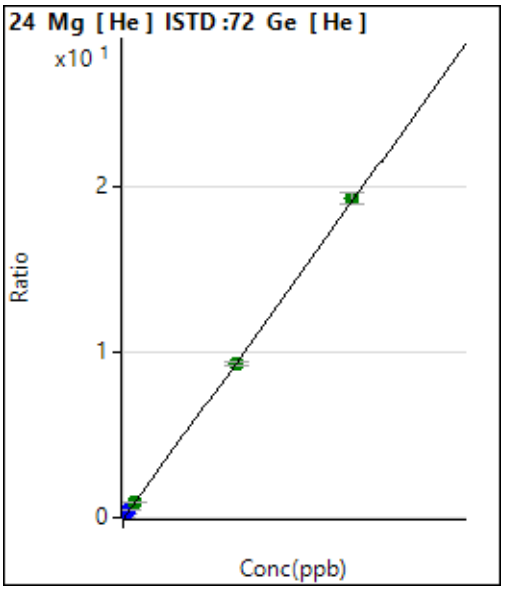


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	288606.42	0.2451	P	1.4	
2	☐	200.000	177.589	622281.82	0.5213	P	1.0	-11.2
3	☐	500.000	473.179	1151604.43	0.9810	A	1.8	-5.4
4	☐	1000.000	977.456	2041607.21	1.7652	A	1.2	-2.3
5	☐	10000.00	9676.744	17407033.07	15.2937	A	1.6	-3.2
6	☐	20000.00	20163.65	3504496448	31.6022	A	2.8	0.8

y = 0.0016 * x + 0.2451
R = 0.9998
DL = 6.411 ppb
BEC = 157.6 ppb

Weight: <None>
Min Conc: <None>

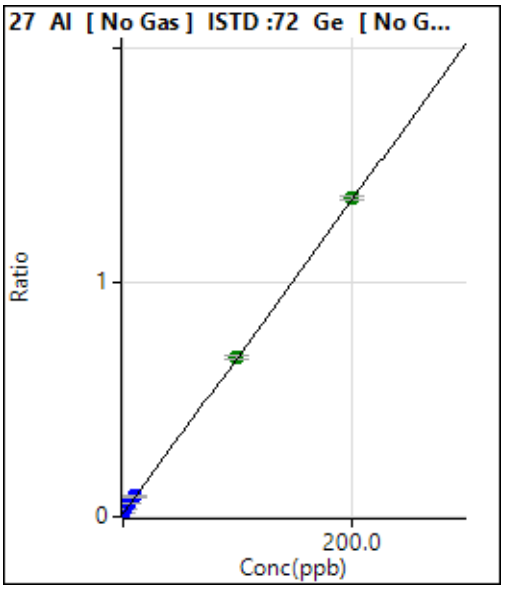
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2800.34	0.0024	P	2.9	
2	☐	200.000	188.332	218868.20	0.1833	P	2.1	-5.8
3	☐	500.000	476.135	539864.42	0.4598	P	1.8	-4.8
4	☐	1000.000	980.631	1092519.88	0.9446	A	1.5	-1.9
5	☐	10000.00	9714.978	10626664.43	9.3364	A	1.8	-2.9
6	☐	20000.00	20144.19	21464943.01	19.3567	A	3.2	0.7

y = 9.6079E-004 * x + 0.0024
R = 0.9999
DL = 0.2145 ppb
BEC = 2.475 ppb

Weight: <None>
Min Conc: <None>

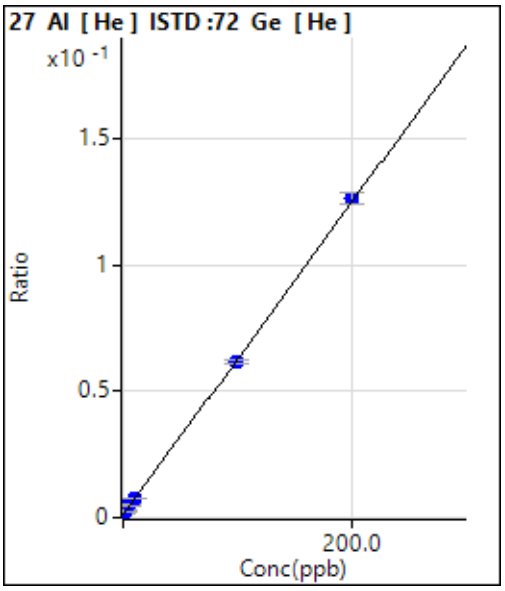


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79772.13	0.0192	P	2.2	
2	☐	2.000	1.525	123569.26	0.0294	P	2.4	-23.8
3	☐	5.000	5.524	232171.49	0.0562	P	7.8	10.5
4	☐	10.000	10.174	358454.78	0.0874	P	2.6	1.7
5	☐	100.000	98.905	2713647.56	0.6822	A	1.7	-1.1
6	☐	200.000	200.531	5281947.84	1.3634	A	1.7	0.3

y = 0.0067 * x + 0.0192
R = 1.0000
DL = 0.1901 ppb
BEC = 2.859 ppb

Weight: <None>
Min Conc: <None>

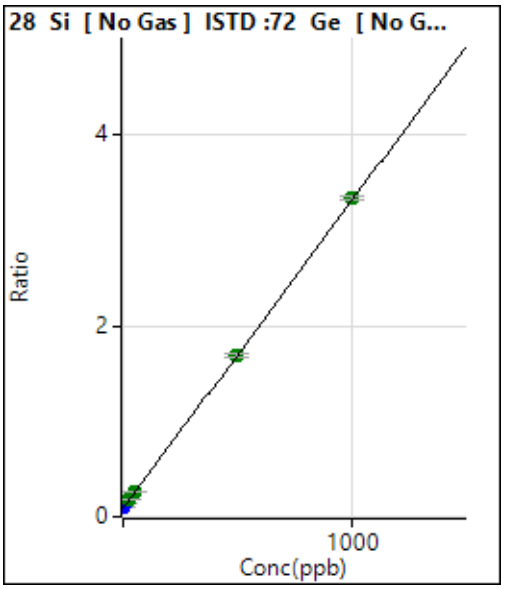
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2066.86	0.0018	P	3.4	
2	☐	2.000	1.406	3137.07	0.0026	P	7.0	-29.7
3	☐	5.000	5.203	5844.66	0.0050	P	1.6	4.1
4	☐	10.000	9.473	8816.28	0.0076	P	5.9	-5.3
5	☐	100.000	96.780	70231.85	0.0617	P	3.0	-3.2
6	☐	200.000	201.637	140454.75	0.1267	P	3.5	0.8

y = 6.1944E-004 * x + 0.0018
R = 0.9998
DL = 0.2864 ppb
BEC = 2.834 ppb

Weight: <None>
Min Conc: <None>

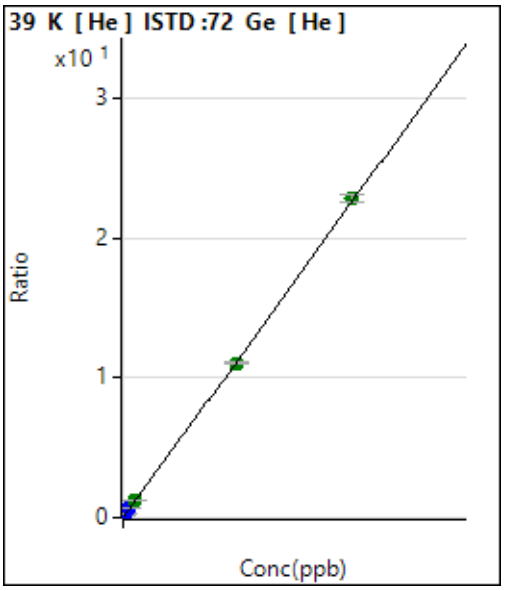


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	438318.65	0.1053	P	0.4	
2	☐	10.000	9.287	568752.14	0.1353	P	0.2	-7.1
3	☐	25.000	24.351	759668.97	0.1839	A	0.1	-2.6
4	☐	50.000	49.749	1090527.61	0.2658	A	1.3	-0.5
5	☐	500.000	492.180	6734428.23	1.6930	A	1.8	-1.6
6	☐	1000.000	1003.946	12953963.98	3.3438	A	1.5	0.4

y = 0.0032 * x + 0.1053
R = 1.0000
DL = 0.4316 ppb
BEC = 32.65 ppb

Weight: <None>
Min Conc: <None>

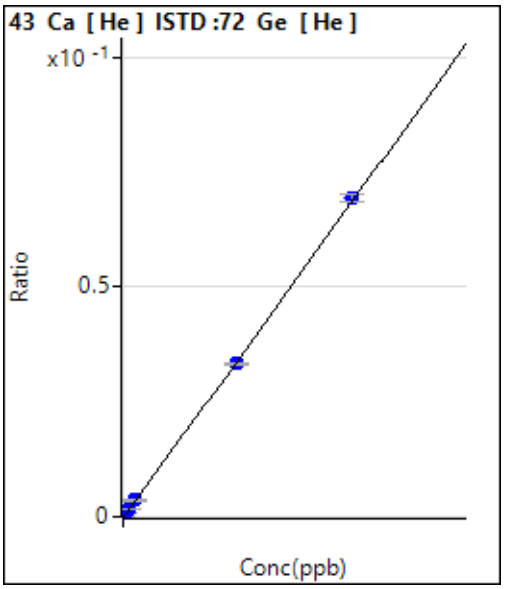
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	119097.76	0.1011	P	0.3	
2	☐	200.000	186.455	372135.50	0.3117	P	0.3	-6.8
3	☐	500.000	475.349	748983.87	0.6380	P	1.9	-4.9
4	☐	1000.000	982.636	1400574.72	1.2109	A	1.3	-1.7
5	☐	10000.00	9705.924	12591435.65	11.0629	A	1.7	-2.9
6	☐	20000.00	20148.65	25347163.79	22.8567	A	2.3	0.7

y = 0.0011 * x + 0.1011
R = 0.9999
DL = 0.6747 ppb
BEC = 89.55 ppb

Weight: <None>
Min Conc: <None>

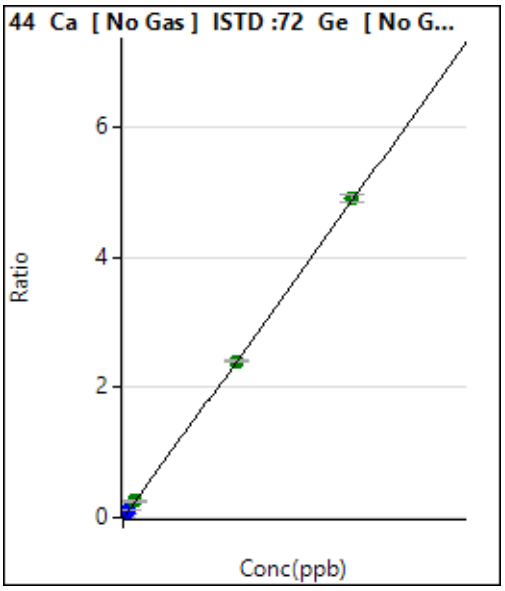


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	44.0	
2	☐	200.000	220.012	956.72	0.0008	P	6.9	10.0
3	☐	500.000	475.202	1970.17	0.0017	P	1.5	-5.0
4	☐	1000.000	1040.743	4187.37	0.0036	P	5.6	4.1
5	☐	10000.00	9668.254	37855.14	0.0333	P	1.7	-3.3
6	☐	20000.00	20164.25	76871.75	0.0693	P	2.5	0.8

y = 3.4355E-006 * x + 4.5378E-005
R = 0.9998
DL = 17.45 ppb
BEC = 13.21 ppb

Weight: <None>
Min Conc: <None>

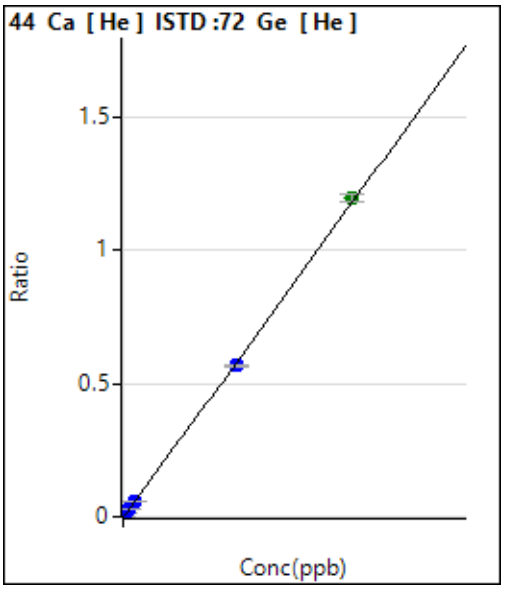
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54075.33	0.0130	P	1.7	
2	☐	200.000	198.146	257829.67	0.0613	P	1.6	-0.9
3	☐	500.000	486.430	543875.83	0.1316	P	2.3	-2.7
4	☐	1000.000	981.332	1035362.72	0.2524	A	1.5	-1.9
5	☐	10000.00	9825.374	9584837.57	2.4095	A	2.1	-1.7
6	☐	20000.00	20088.60	19032093.05	4.9128	A	2.3	0.4

y = 2.4391E-004 * x + 0.0130
R = 0.9999
DL = 2.69 ppb
BEC = 53.27 ppb

Weight: <None>
Min Conc: <None>

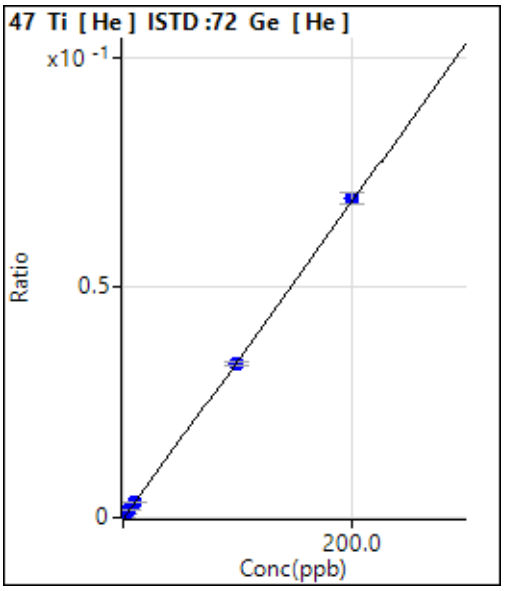


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	15.2	
2	☐	200.000	193.959	15048.30	0.0126	P	2.3	-3.0
3	☐	500.000	468.624	33828.14	0.0288	P	1.5	-6.3
4	☐	1000.000	970.349	67563.50	0.0584	P	2.2	-3.0
5	☐	10000.00	9557.200	643072.29	0.5650	P	1.4	-4.4
6	☐	20000.00	20223.72	1324475.06	1.1943	A	2.6	1.1

y = 5.8999E-005 * x + 0.0012
R = 0.9997
DL = 9 ppb
BEC = 19.72 ppb

Weight: <None>
Min Conc: <None>

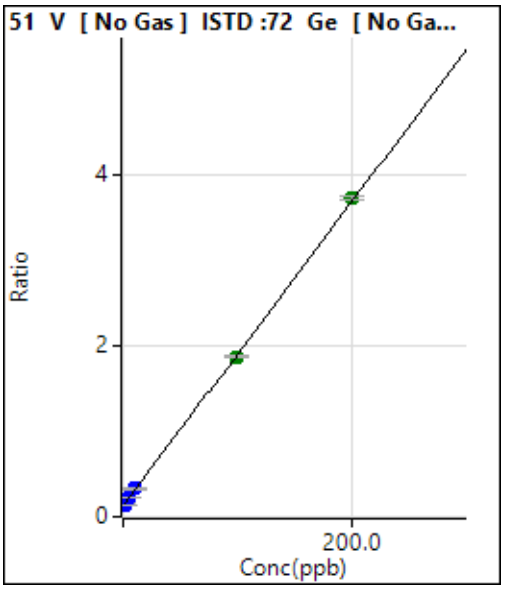
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	44.0	
2	☐	2.000	1.824	776.70	0.0007	P	5.7	-8.8
3	☐	5.000	4.469	1833.49	0.0016	P	12.4	-10.6
4	☐	10.000	9.439	3783.92	0.0033	P	4.4	-5.6
5	☐	100.000	97.296	38132.74	0.0335	P	2.0	-2.7
6	☐	200.000	201.395	76872.09	0.0693	P	3.7	0.7

y = 3.4411E-004 * x + 2.2689E-005
R = 0.9999
DL = 0.08712 ppb
BEC = 0.06593 ppb

Weight: <None>
Min Conc: <None>

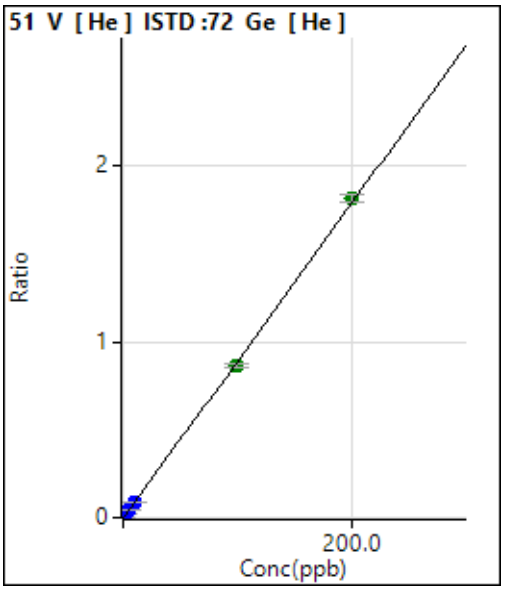


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	623488.18	0.1498	P	1.4	
2	☐	2.000	-0.404	599723.22	0.1426	P	1.6	-120.2
3	☐	5.000	4.124	921434.11	0.2230	P	1.8	-17.5
4	☐	10.000	9.910	1336488.84	0.3257	P	1.1	-0.9
5	☐	100.000	96.962	7443170.55	1.8711	A	1.6	-3.0
6	☐	200.000	201.570	14443088.49	3.7282	A	1.8	0.8

y = 0.0178 * x + 0.1498
R = 0.9998
DL = 0.3599 ppb
BEC = 8.439 ppb

Weight: <None>
Min Conc: <None>

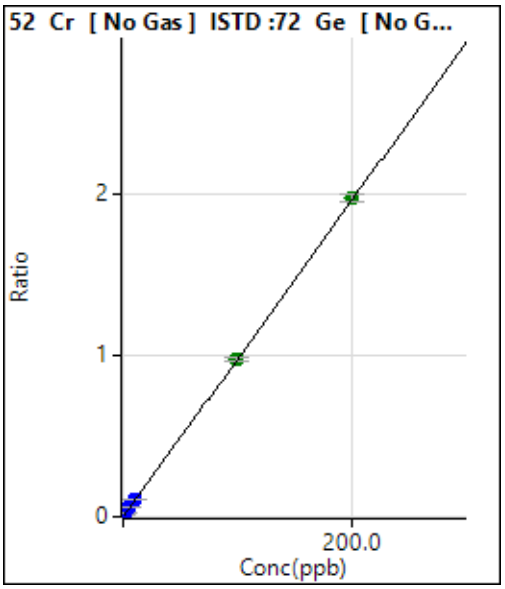
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5106.53	0.0043	P	1.3	
2	☐	2.000	1.750	23909.53	0.0200	P	1.6	-12.5
3	☐	5.000	4.697	54554.53	0.0465	P	2.7	-6.1
4	☐	10.000	9.668	105327.92	0.0911	P	2.7	-3.3
5	☐	100.000	95.893	984011.87	0.8645	A	1.7	-4.1
6	☐	200.000	202.080	2015089.64	1.8171	A	3.0	1.0

y = 0.0090 * x + 0.0043
R = 0.9997
DL = 0.01826 ppb
BEC = 0.4834 ppb

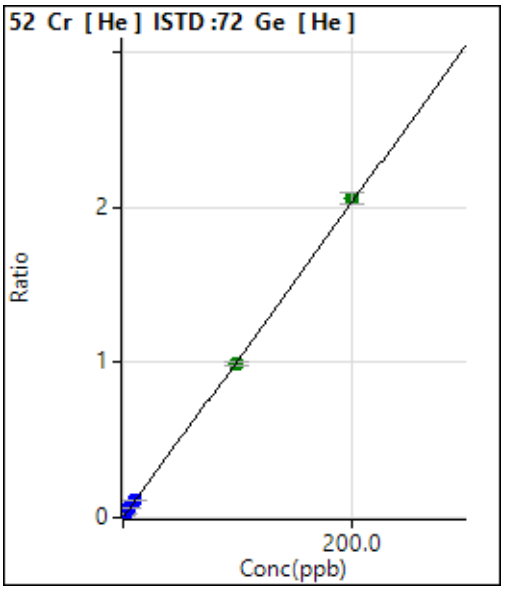
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37434.31	0.0090	P	2.1	
2	☐	2.000	1.766	110679.48	0.0263	P	1.8	-11.7
3	☐	5.000	4.828	232859.77	0.0564	P	1.3	-3.4
4	☐	10.000	9.872	434256.59	0.1058	P	1.5	-1.3
5	☐	100.000	98.544	3881322.96	0.9757	A	1.8	-1.5
6	☐	200.000	200.741	7663884.26	1.9783	A	1.9	0.4

y = 0.0098 * x + 0.0090
R = 1.0000
DL = 0.05682 ppb
BEC = 0.9169 ppb

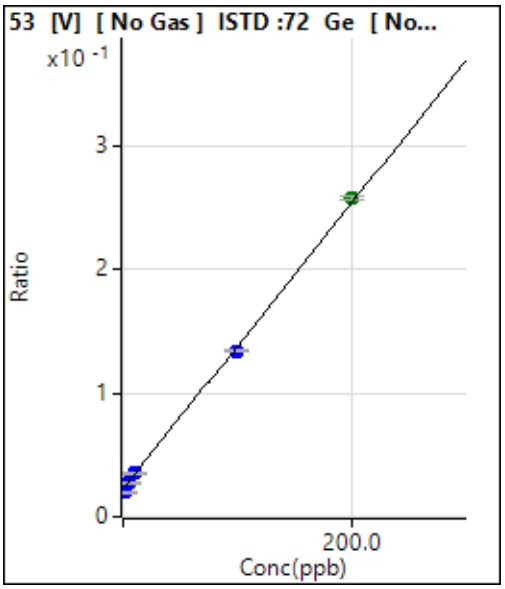
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12652.62	0.0107	P	4.0	
2	☐	2.000	1.538	31466.12	0.0264	P	1.3	-23.1
3	☐	5.000	4.828	70170.90	0.0598	P	2.5	-3.4
4	☐	10.000	9.941	129188.69	0.1117	P	2.7	-0.6
5	☐	100.000	96.416	1126568.11	0.9898	A	2.4	-3.6
6	☐	200.000	201.804	2284256.84	2.0599	A	3.2	0.9

y = 0.0102 * x + 0.0107
R = 0.9998
DL = 0.1276 ppb
BEC = 1.058 ppb

Weight: <None>
Min Conc: <None>

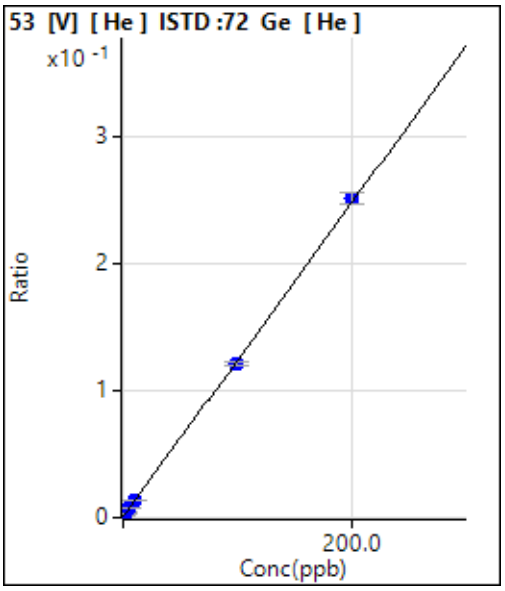


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101036.73	0.0243	P	1.8	
2	☐	2.000	-4.140	81968.87	0.0195	P	2.1	-307.0
3	☐	5.000	2.731	113331.30	0.0274	P	2.6	-45.4
4	☐	10.000	9.394	144120.20	0.0351	P	0.9	-6.1
5	☐	100.000	95.281	534242.26	0.1343	P	1.3	-4.7
6	☐	200.000	202.508	999993.19	0.2581	A	1.4	1.3

y = 0.0012 * x + 0.0243
R = 0.9994
DL = 1.125 ppb
BEC = 21.02 ppb

Weight: <None>
Min Conc: <None>

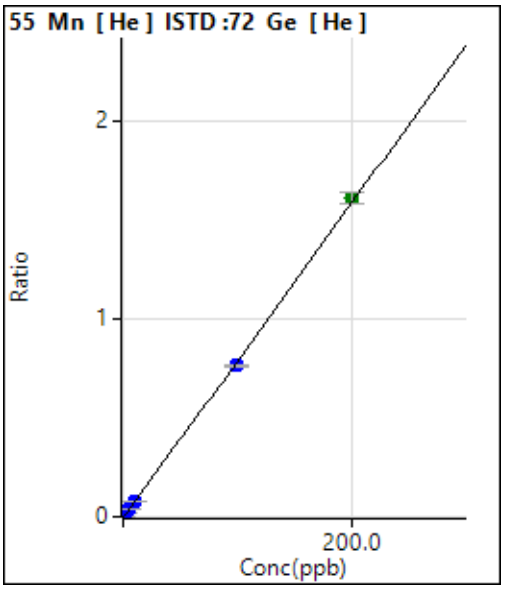
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2336.92	0.0020	P	0.1	
2	☐	2.000	1.449	4500.82	0.0038	P	3.2	-27.5
3	☐	5.000	4.493	8833.00	0.0075	P	6.0	-10.1
4	☐	10.000	9.573	15946.03	0.0138	P	1.4	-4.3
5	☐	100.000	96.223	137279.10	0.1206	P	2.1	-3.8
6	☐	200.000	201.928	278261.94	0.2509	P	3.1	1.0

y = 0.0012 * x + 0.0020
R = 0.9998
DL = 0.003174 ppb
BEC = 1.61 ppb

Weight: <None>
Min Conc: <None>

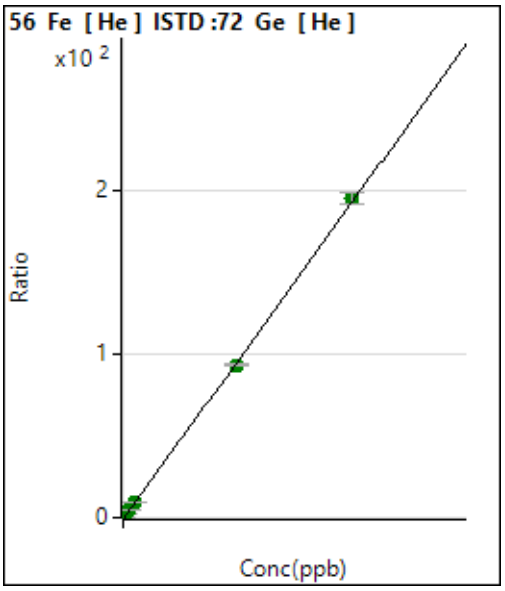


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1773.48	0.0015	P	5.5	
2	☐	2.000	1.839	19250.32	0.0161	P	2.2	-8.0
3	☐	5.000	4.861	47140.58	0.0402	P	1.7	-2.8
4	☐	10.000	9.816	92011.73	0.0795	P	2.8	-1.8
5	☐	100.000	95.630	867052.17	0.7618	P	1.4	-4.4
6	☐	200.000	202.199	1784314.40	1.6091	A	3.4	1.1

y = 0.0080 * x + 0.0015
R = 0.9997
DL = 0.03105 ppb
BEC = 0.1895 ppb

Weight: <None>
Min Conc: <None>

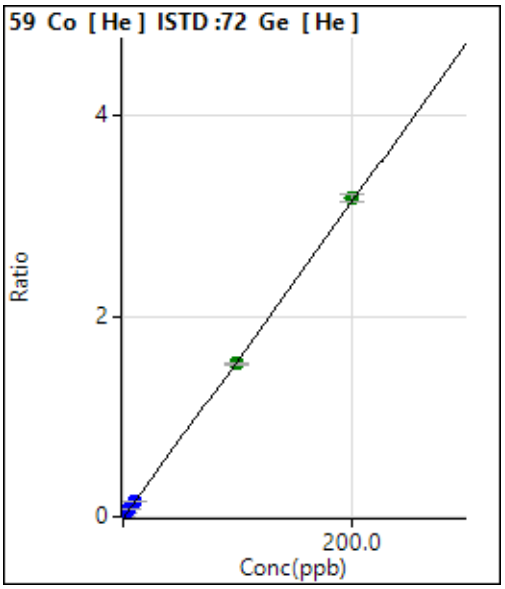
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43278.54	0.0367	P	0.9	
2	☐	200.000	188.123	2218554.55	1.8583	A	1.2	-5.9
3	☐	500.000	480.763	5508640.75	4.6918	A	2.3	-3.8
4	☐	1000.000	985.434	11078721.09	9.5783	A	2.2	-1.5
5	☐	10000.00	9640.722	106286848.4	93.3839	A	1.3	-3.6
6	☐	20000.00	20180.96	216728676.7	195.440	A	3.2	0.9

y = 0.0097 * x + 0.0367
R = 0.9998
DL = 0.1028 ppb
BEC = 3.795 ppb

Weight: <None>
Min Conc: <None>

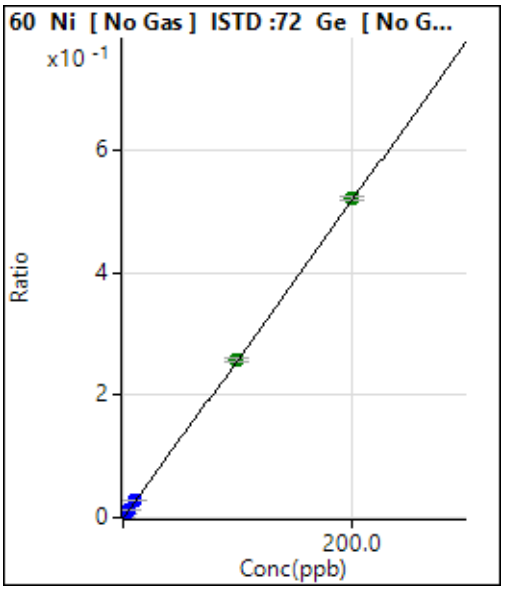


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1033.39	0.0009	P	12.3	
2	☐	2.000	1.923	37253.94	0.0312	P	4.1	-3.9
3	☐	5.000	4.873	91277.55	0.0777	P	3.4	-2.5
4	☐	10.000	10.047	184353.51	0.1594	P	2.7	0.5
5	☐	100.000	96.844	1739956.22	1.5287	A	1.6	-3.2
6	☐	200.000	201.580	3527645.26	3.1810	A	2.4	0.8

y = 0.0158 * x + 8.7793E-004
R = 0.9998
DL = 0.02052 ppb
BEC = 0.05565 ppb

Weight: <None>
Min Conc: <None>

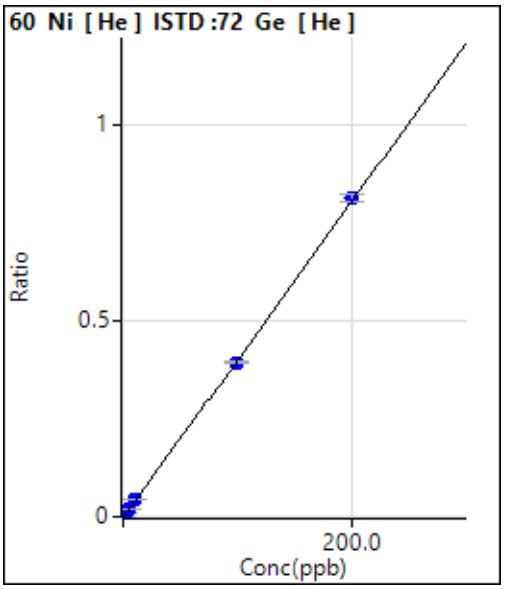
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4237.40	0.0010	P	1.1	
2	☐	2.000	1.918	25250.18	0.0060	P	1.5	-4.1
3	☐	5.000	4.998	57898.44	0.0140	P	2.2	0.0
4	☐	10.000	10.113	112049.36	0.0273	P	1.1	1.1
5	☐	100.000	98.616	1023925.77	0.2574	A	2.1	-1.4
6	☐	200.000	200.687	2025283.09	0.5228	A	1.4	0.3

y = 0.0026 * x + 0.0010
R = 1.0000
DL = 0.01257 ppb
BEC = 0.3916 ppb

Weight: <None>
Min Conc: <None>

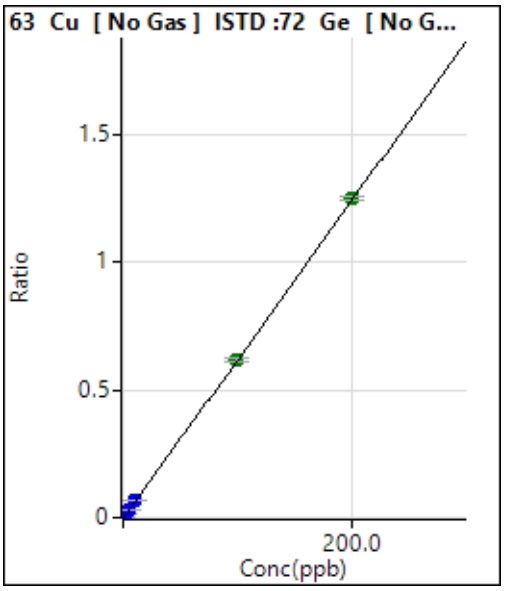


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	2.3	
2	☐	2.000	1.973	10907.82	0.0091	P	7.7	-1.3
3	☐	5.000	4.850	24391.83	0.0208	P	2.6	-3.0
4	☐	10.000	10.255	49315.27	0.0426	P	2.2	2.6
5	☐	100.000	97.350	449400.83	0.3948	P	1.8	-2.7
6	☐	200.000	201.316	904123.53	0.8153	P	2.0	0.7

y = 0.0040 * x + 0.0012
R = 0.9999
DL = 0.0196 ppb
BEC = 0.2877 ppb

Weight: <None>
Min Conc: <None>

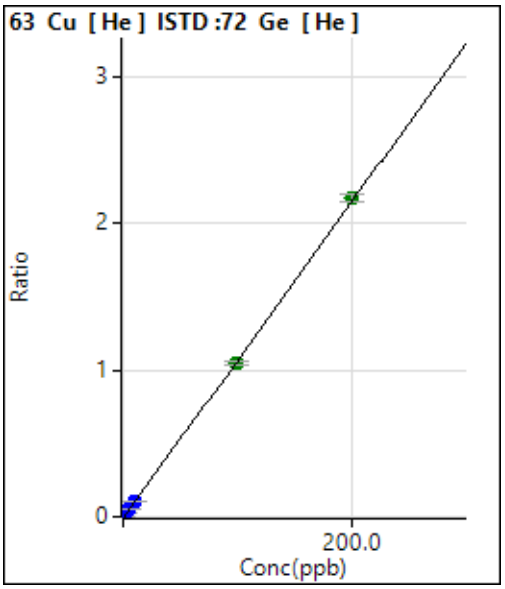
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7608.90	0.0018	P	4.3	
2	☐	2.000	2.006	60252.13	0.0143	P	3.6	0.3
3	☐	5.000	5.060	137858.86	0.0334	P	2.6	1.2
4	☐	10.000	10.184	267930.58	0.0653	P	2.0	1.8
5	☐	100.000	98.992	2461635.85	0.6188	A	1.8	-1.0
6	☐	200.000	200.493	4848458.99	1.2515	A	1.2	0.2

y = 0.0062 * x + 0.0018
R = 1.0000
DL = 0.03749 ppb
BEC = 0.2933 ppb

Weight: <None>
Min Conc: <None>

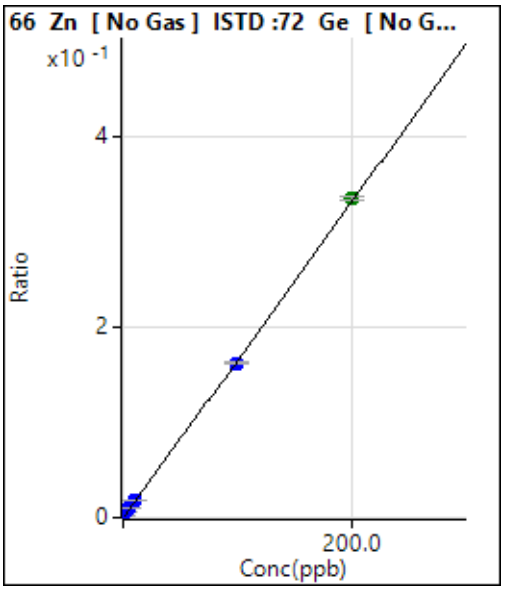


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.09	0.0011	P	16.3	
2	☐	2.000	1.925	26111.82	0.0219	P	2.4	-3.8
3	☐	5.000	4.936	63848.37	0.0544	P	1.2	-1.3
4	☐	10.000	10.015	126312.89	0.1092	P	0.4	0.1
5	☐	100.000	96.995	1193030.61	1.0482	A	1.7	-3.0
6	☐	200.000	201.504	2413664.39	2.1764	A	1.8	0.8

y = 0.0108 * x + 0.0011
R = 0.9998
DL = 0.04961 ppb
BEC = 0.1014 ppb

Weight: <None>
Min Conc: <None>

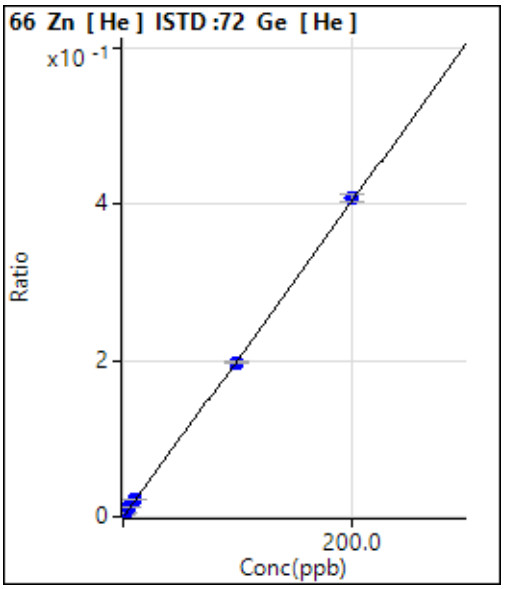
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4424.13	0.0011	P	4.0	
2	☐	2.000	2.492	21897.70	0.0052	P	3.4	24.6
3	☐	5.000	5.019	38885.42	0.0094	P	4.4	0.4
4	☐	10.000	10.061	73027.29	0.0178	P	1.2	0.6
5	☐	100.000	97.306	648074.41	0.1629	P	2.0	-2.7
6	☐	200.000	201.339	1301588.63	0.3360	A	1.5	0.7

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.07603 ppb
BEC = 0.639 ppb

Weight: <None>
Min Conc: <None>

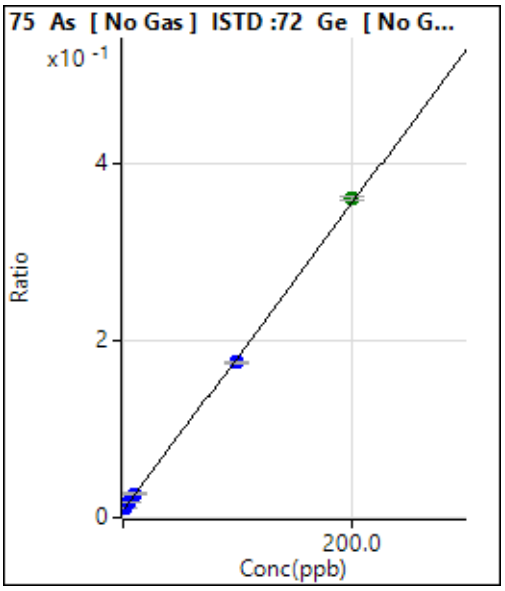


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1546.78	0.0013	P	6.9	
2	☐	2.000	2.350	7238.72	0.0061	P	0.9	17.5
3	☐	5.000	4.954	13299.97	0.0113	P	3.7	-0.9
4	☐	10.000	10.064	25053.27	0.0217	P	1.3	0.6
5	☐	100.000	97.122	224987.90	0.1977	P	1.9	-2.9
6	☐	200.000	201.433	453103.39	0.4086	P	2.6	0.7

y = 0.0020 * x + 0.0013
R = 0.9998
DL = 0.1336 ppb
BEC = 0.6498 ppb

Weight: <None>
Min Conc: <None>

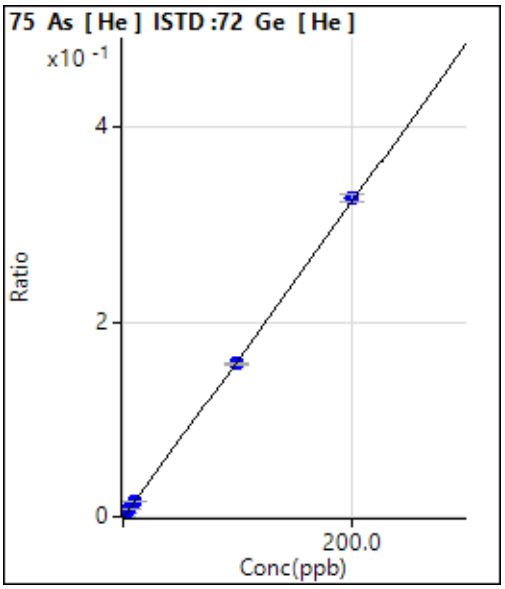
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41420.07	0.0100	P	2.2	
2	☐	2.000	0.174	43111.79	0.0103	P	0.8	-91.3
3	☐	5.000	4.236	71393.00	0.0173	P	2.2	-15.3
4	☐	10.000	9.765	110125.14	0.0268	P	2.7	-2.4
5	☐	100.000	95.313	695363.61	0.1748	P	1.6	-4.7
6	☐	200.000	202.393	1394740.55	0.3600	A	1.6	1.2

y = 0.0017 * x + 0.0100
R = 0.9996
DL = 0.3786 ppb
BEC = 5.754 ppb

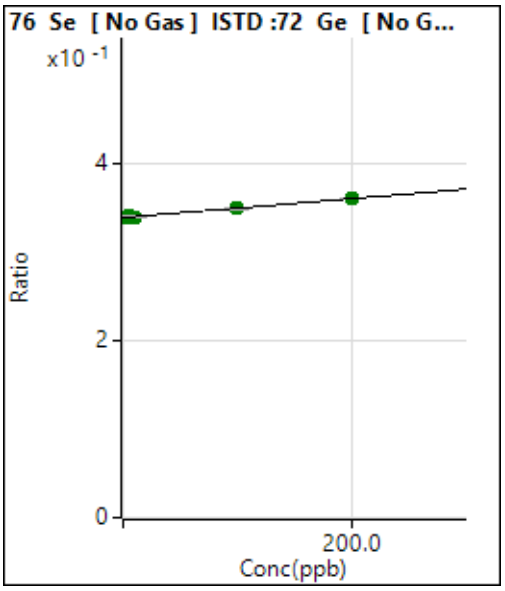
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	356.67	0.0003	P	6.9	
2	☐	2.000	1.841	3928.36	0.0033	P	3.7	-7.9
3	☐	5.000	4.835	9564.50	0.0081	P	4.6	-3.3
4	☐	10.000	9.803	18745.11	0.0162	P	1.3	-2.0
5	☐	100.000	96.787	179057.99	0.1573	P	1.7	-3.2
6	☐	200.000	201.622	363060.04	0.3274	P	2.6	0.8

y = 0.0016 * x + 3.0293E-004
R = 0.9998
DL = 0.03847 ppb
BEC = 0.1867 ppb

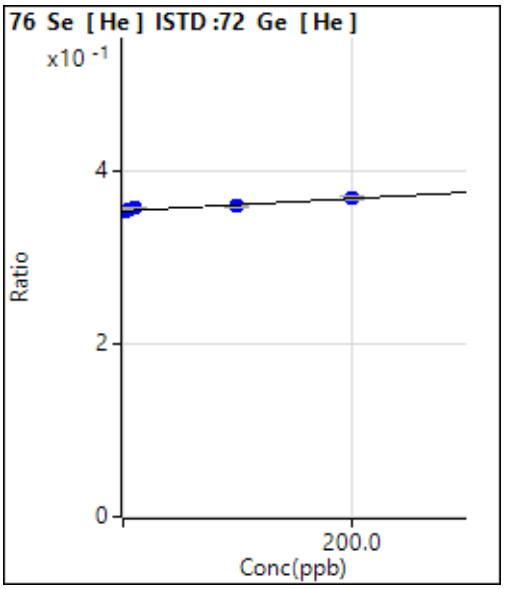
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1411471.07	0.3391	A	0.2	
2	☐	2.000	-6.447	1422952.53	0.3384	A	0.7	-422.4
3	☐	5.000	11.669	1406365.14	0.3404	A	0.6	133.4
4	☐	10.000	6.783	1394506.23	0.3399	A	0.4	-32.2
5	☐	100.000	95.860	1390091.65	0.3495	A	0.5	-4.1
6	☐	200.000	202.148	1398200.03	0.3609	A	0.3	1.1

y = 1.0766E-004 * x + 0.3391
R = 0.9980
DL = 22.78 ppb
BEC = 3150 ppb

Weight: <None>
Min Conc: <None>

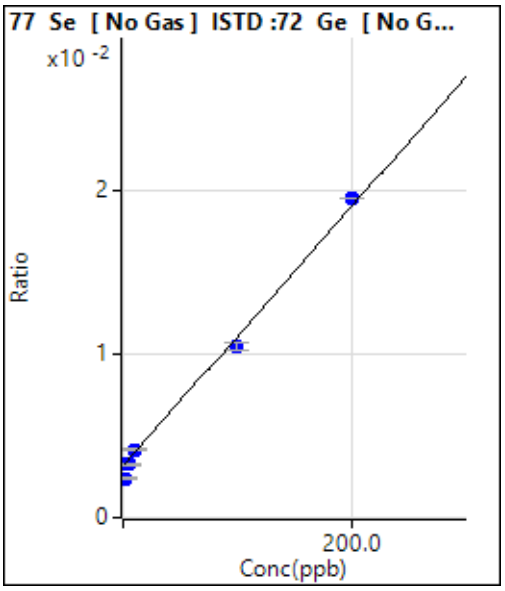


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416216.30	0.3534	P	0.2	
2	☐	2.000	-11.688	420892.72	0.3526	P	1.0	-684.4
3	☐	5.000	21.482	416774.79	0.3550	P	0.9	329.6
4	☐	10.000	49.882	412980.25	0.3571	P	0.7	398.8
5	☐	100.000	78.995	408769.76	0.3592	P	0.4	-21.0
6	☐	200.000	208.233	408732.73	0.3686	P	1.5	4.1

y = 7.2568E-005 * x + 0.3534
R = 0.9636
DL = 35.82 ppb
BEC = 4870 ppb

Weight: <None>
Min Conc: <None>

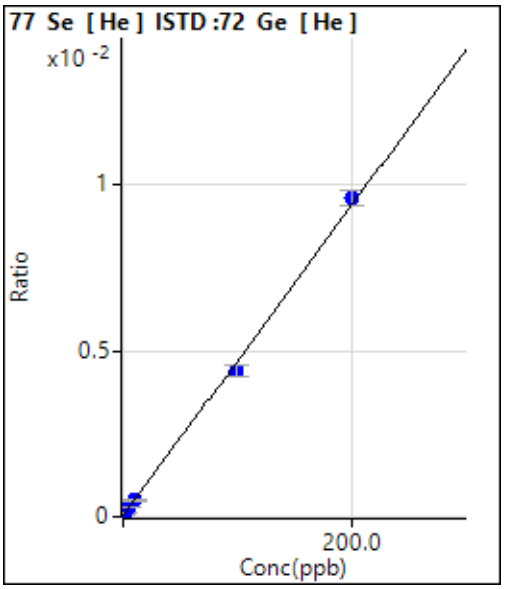
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13703.79	0.0033	P	1.8	
2	☐	2.000	-11.125	10137.27	0.0024	P	3.9	-656.3
3	☐	5.000	-0.623	13400.07	0.0032	P	2.7	-112.5
4	☐	10.000	10.886	17050.96	0.0042	P	2.4	8.9
5	☐	100.000	90.162	41516.84	0.0104	P	4.7	-9.8
6	☐	200.000	205.146	75736.43	0.0195	P	0.3	2.6

y = 7.9240E-005 * x + 0.0033
R = 0.9972
DL = 2.21 ppb
BEC = 41.55 ppb

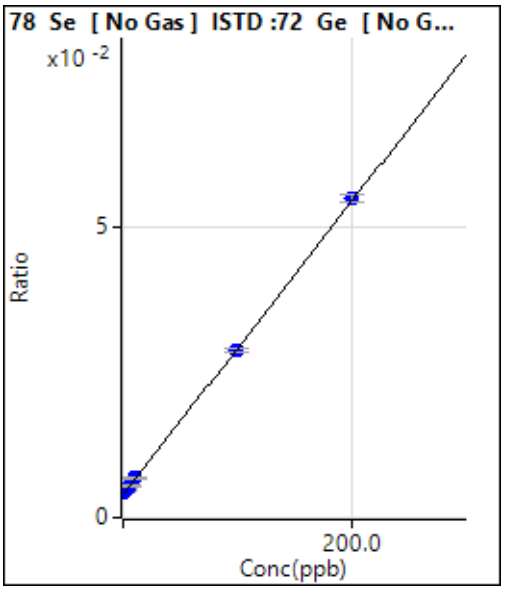
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	6.5	
2	☐	2.000	1.111	156.67	0.0001	P	8.5	-44.4
3	☐	5.000	4.796	356.68	0.0003	P	8.8	-4.1
4	☐	10.000	8.887	573.36	0.0005	P	8.1	-11.1
5	☐	100.000	92.779	5034.34	0.0044	P	8.2	-7.2
6	☐	200.000	203.680	10667.72	0.0096	P	4.4	1.8

y = 4.6838E-005 * x + 7.9270E-005
R = 0.9991
DL = 0.3311 ppb
BEC = 1.692 ppb

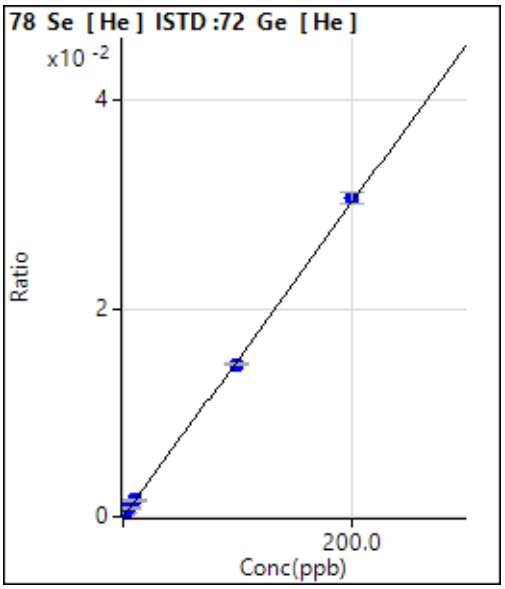
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17611.61	0.0042	P	2.6	
2	☐	2.000	2.103	20014.94	0.0048	P	2.4	5.2
3	☐	5.000	4.648	22311.83	0.0054	P	1.9	-7.0
4	☐	10.000	10.145	27828.68	0.0068	P	1.1	1.5
5	☐	100.000	97.785	114635.87	0.0288	P	2.4	-2.2
6	☐	200.000	201.108	212292.33	0.0548	P	2.0	0.6

y = 2.5143E-004 * x + 0.0042
R = 0.9999
DL = 1.302 ppb
BEC = 16.83 ppb

Weight: <None>
Min Conc: <None>

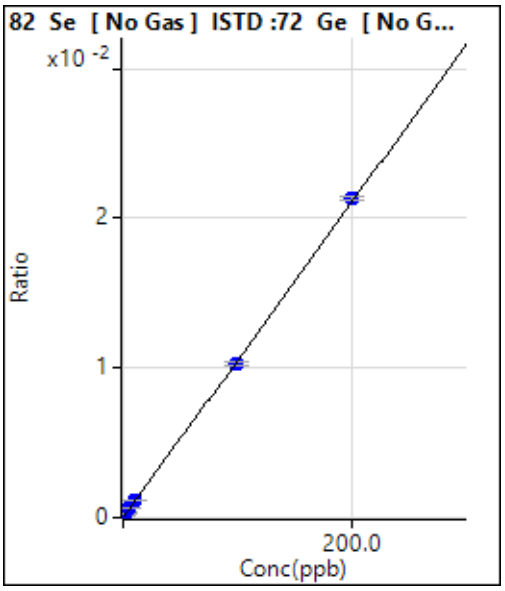


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	158.67	0.0001	P	8.1	
2	☐	2.000	2.023	525.34	0.0004	P	6.2	1.2
3	☐	5.000	4.647	981.37	0.0008	P	4.6	-7.1
4	☐	10.000	9.711	1850.80	0.0016	P	4.8	-2.9
5	☐	100.000	96.045	16650.84	0.0146	P	1.7	-4.0
6	☐	200.000	202.001	33953.46	0.0306	P	3.5	1.0

y = 1.5091E-004 * x + 1.3471E-004
R = 0.9997
DL = 0.216 ppb
BEC = 0.8926 ppb

Weight: <None>
Min Conc: <None>

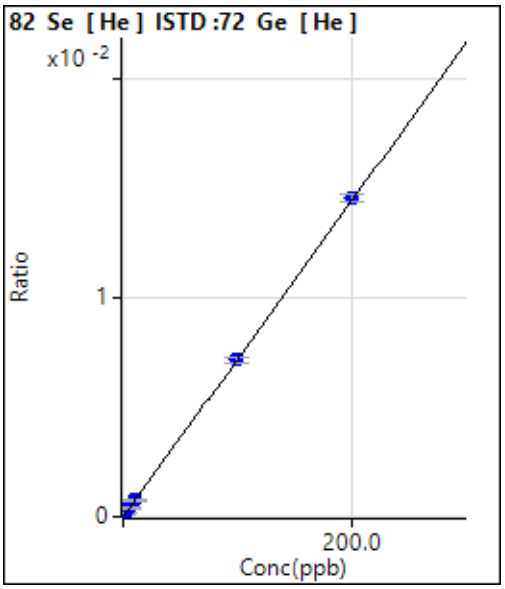
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	25.5	
2	☐	2.000	1.939	1290.09	0.0003	P	19.5	-3.1
3	☐	5.000	4.748	2490.28	0.0006	P	1.2	-5.0
4	☐	10.000	9.887	4694.22	0.0011	P	3.6	-1.1
5	☐	100.000	96.838	40985.51	0.0103	P	1.8	-3.2
6	☐	200.000	201.593	82664.00	0.0213	P	1.8	0.8

y = 1.0534E-004 * x + 1.0258E-004
R = 0.9998
DL = 0.7442 ppb
BEC = 0.9739 ppb

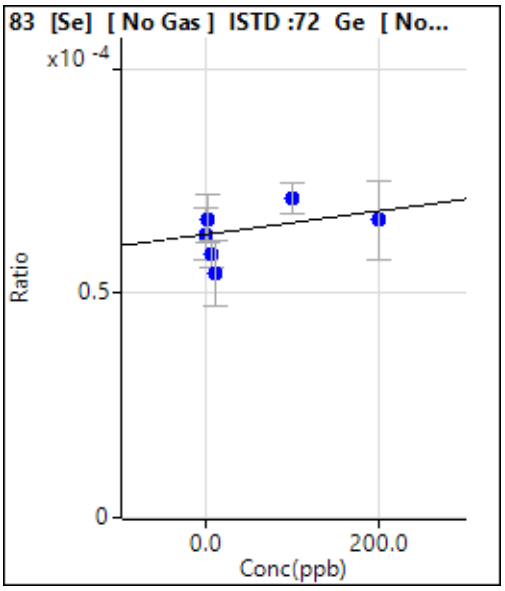
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	22.0	
2	☐	2.000	1.461	206.68	0.0002	P	20.2	-26.9
3	☐	5.000	4.684	476.68	0.0004	P	20.7	-6.3
4	☐	10.000	9.567	876.71	0.0008	P	9.0	-4.3
5	☐	100.000	98.378	8149.25	0.0072	P	3.4	-1.6
6	☐	200.000	200.846	16133.29	0.0145	P	2.0	0.4

y = 7.2094E-005 * x + 6.7964E-005
R = 1.0000
DL = 0.621 ppb
BEC = 0.9427 ppb

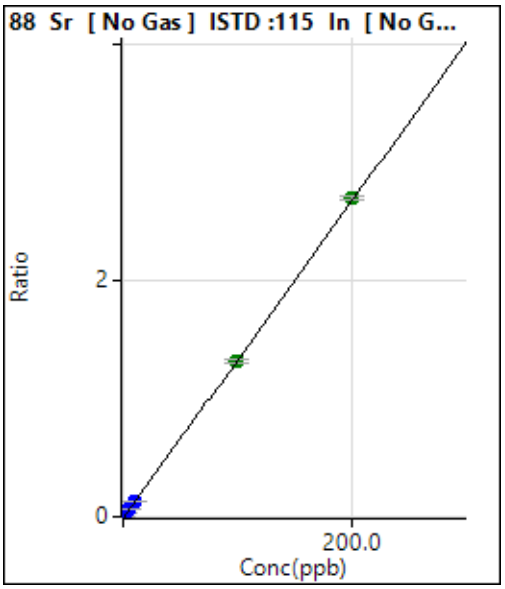
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	18.4	
2	☐	2.000	128.285	280.01	0.0001	P	16.3	6314.2
3	☐	5.000	-167.283	243.34	0.0001	P	10.2	-3445.7
4	☐	10.000	-339.012	223.34	0.0001	P	26.7	-3490.1
5	☐	100.000	305.817	283.34	0.0001	P	10.1	205.8
6	☐	200.000	117.586	256.68	0.0001	P	26.6	-41.2

y = 2.6064E-008 * x + 6.3252E-005
R = 0.5062
DL = 1341 ppb
BEC = 2427 ppb

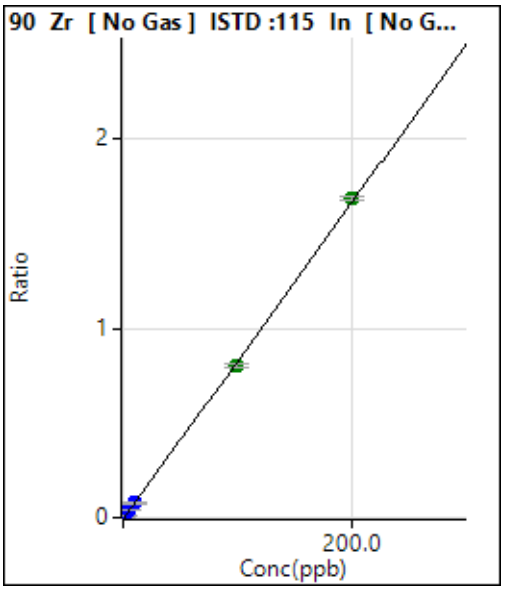
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4904.32	0.0009	P	7.3	
2	☐	2.000	1.864	137527.00	0.0259	P	1.2	-6.8
3	☐	5.000	4.711	337079.14	0.0641	P	1.1	-5.8
4	☐	10.000	9.534	674025.95	0.1287	P	0.6	-4.7
5	☐	100.000	97.841	6609469.07	1.3123	A	2.4	-2.2
6	☐	200.000	201.111	13219901.88	2.6964	A	1.3	0.6

y = 0.0134 * x + 9.2501E-004
R = 0.9999
DL = 0.01507 ppb
BEC = 0.06902 ppb

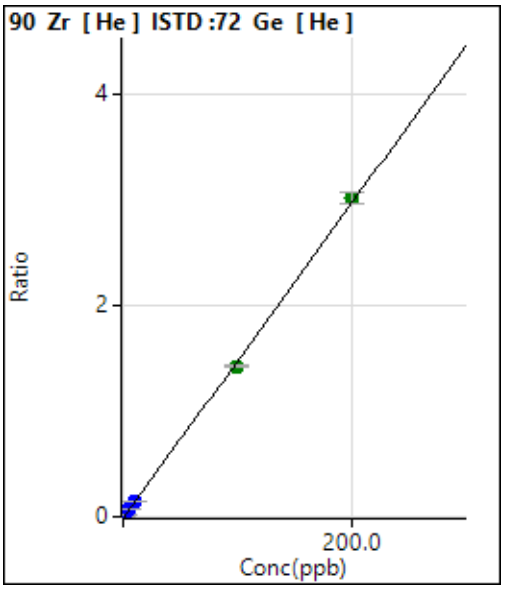
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2100.20	0.0004	P	19.4	
2	☐	2.000	1.596	72866.28	0.0137	P	1.3	-20.2
3	☐	5.000	4.327	192226.04	0.0365	P	1.7	-13.5
4	☐	10.000	9.154	402526.14	0.0769	P	1.8	-8.5
5	☐	100.000	96.419	4058347.96	0.8058	A	2.6	-3.6
6	☐	200.000	201.854	8268343.63	1.6864	A	1.4	0.9

y = 0.0084 * x + 3.9617E-004
R = 0.9998
DL = 0.02754 ppb
BEC = 0.04743 ppb

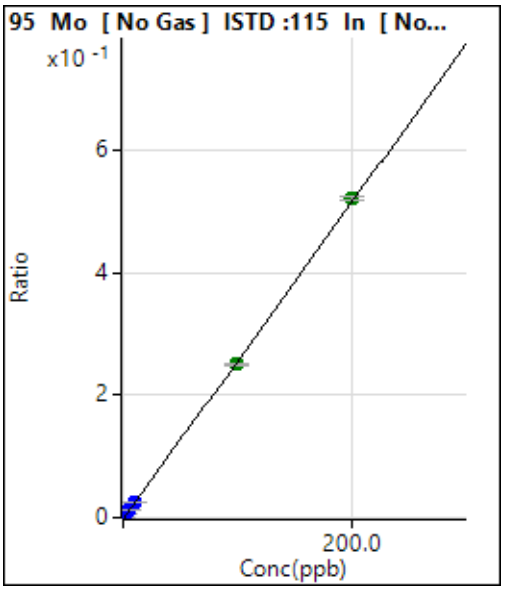
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0017	P	2.1	
2	☐	2.000	1.597	30474.83	0.0255	P	1.3	-20.2
3	☐	5.000	4.306	77360.72	0.0659	P	3.7	-13.9
4	☐	10.000	9.243	161276.68	0.1394	P	2.1	-7.6
5	☐	100.000	95.413	1619902.21	1.4232	A	2.0	-4.6
6	☐	200.000	202.353	3344962.35	3.0164	A	3.1	1.2

y = 0.0149 * x + 0.0017
R = 0.9997
DL = 0.007522 ppb
BEC = 0.1167 ppb

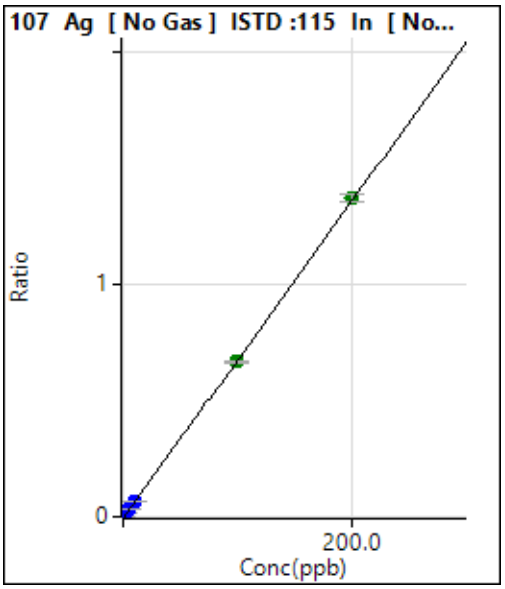
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0001	P	21.2	
2	☐	2.000	1.886	26265.88	0.0049	P	4.8	-5.7
3	☐	5.000	4.791	65532.40	0.0125	P	2.1	-4.2
4	☐	10.000	9.571	129939.16	0.0248	P	2.1	-4.3
5	☐	100.000	96.791	1260475.16	0.2503	A	2.0	-3.2
6	☐	200.000	201.632	2555596.78	0.5213	A	1.5	0.8

y = 0.0026 * x + 7.2253E-005
R = 0.9998
DL = 0.01779 ppb
BEC = 0.02795 ppb

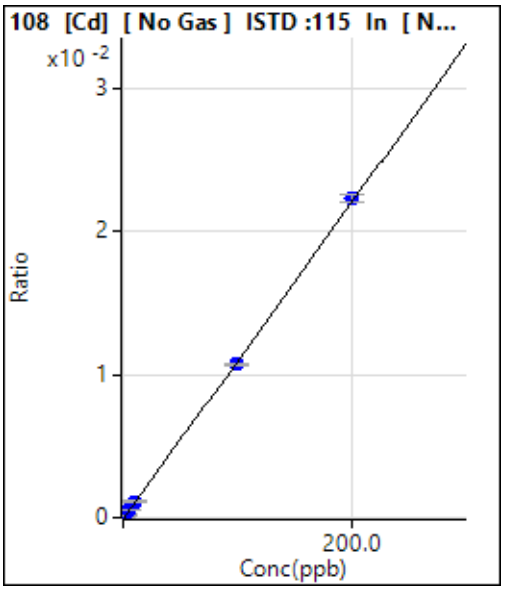
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1473.44	0.0003	P	9.2	
2	☐	2.000	1.978	73196.34	0.0138	P	2.4	-1.1
3	☐	5.000	4.937	178888.02	0.0340	P	1.2	-1.3
4	☐	10.000	9.934	356860.89	0.0681	P	1.9	-0.7
5	☐	100.000	97.700	3362962.35	0.6677	A	1.4	-2.3
6	☐	200.000	201.155	6738256.15	1.3744	A	2.2	0.6

y = 0.0068 * x + 2.7790E-004
R = 0.9999
DL = 0.01118 ppb
BEC = 0.04068 ppb

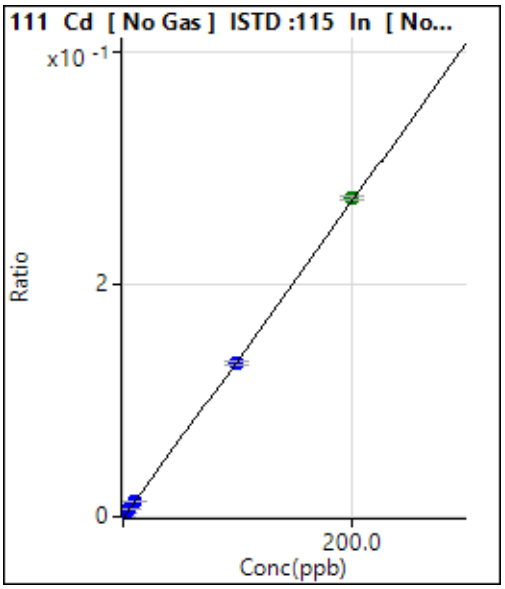
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	99.8	
2	☐	2.000	1.758	1053.40	0.0002	P	16.5	-12.1
3	☐	5.000	4.930	2893.71	0.0006	P	4.1	-1.4
4	☐	10.000	10.251	5968.10	0.0011	P	3.4	2.5
5	☐	100.000	96.634	53948.86	0.0107	P	1.3	-3.4
6	☐	200.000	201.674	109577.53	0.0224	P	1.9	0.8

y = 1.1080E-004 * x + 3.7564E-006
R = 0.9998
DL = 0.1015 ppb
BEC = 0.0339 ppb

Weight: <None>
Min Conc: <None>

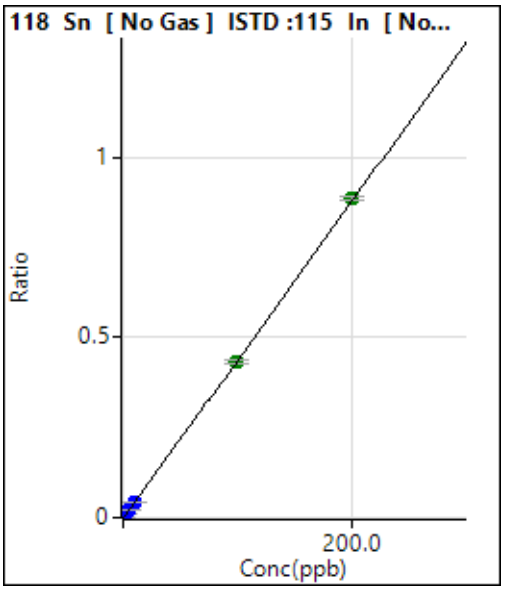


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	161.88	0.0000	P	17.1	
2	☐	2.000	1.958	14305.56	0.0027	P	3.2	-2.1
3	☐	5.000	4.876	35056.73	0.0067	P	2.6	-2.5
4	☐	10.000	9.727	69461.72	0.0133	P	1.0	-2.7
5	☐	100.000	97.128	665670.65	0.1322	P	2.1	-2.9
6	☐	200.000	201.453	1343775.42	0.2741	A	1.7	0.7

y = 0.0014 * x + 3.0559E-005
R = 0.9999
DL = 0.01152 ppb
BEC = 0.02246 ppb

Weight: <None>
Min Conc: <None>

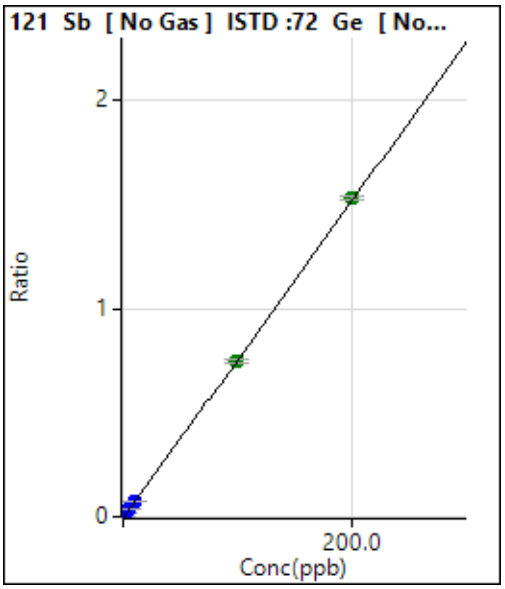
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8672.97	0.0016	P	4.3	
2	☐	2.000	1.777	50235.19	0.0095	P	1.9	-11.1
3	☐	5.000	4.844	120829.17	0.0230	P	2.4	-3.1
4	☐	10.000	9.771	233896.42	0.0447	P	1.8	-2.3
5	☐	100.000	97.909	2179718.82	0.4328	A	2.4	-2.1
6	☐	200.000	201.063	4348892.12	0.8870	A	1.5	0.5

y = 0.0044 * x + 0.0016
R = 0.9999
DL = 0.04822 ppb
BEC = 0.3715 ppb

Weight: <None>
Min Conc: <None>

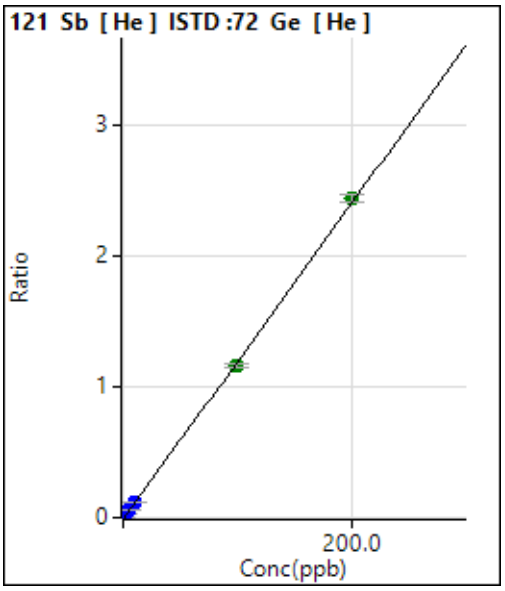


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1300.09	0.0003	P	6.4	
2	☐	2.000	1.927	63069.68	0.0150	P	2.9	-3.6
3	☐	5.000	4.830	153386.18	0.0371	P	1.8	-3.4
4	☐	10.000	9.841	309005.41	0.0753	P	2.5	-1.6
5	☐	100.000	97.922	2970035.48	0.7466	A	2.6	-2.1
6	☐	200.000	201.052	5937645.75	1.5326	A	0.9	0.5

y = 0.0076 * x + 3.1238E-004
R = 0.9999
DL = 0.007811 ppb
BEC = 0.04099 ppb

Weight: <None>
Min Conc: <None>

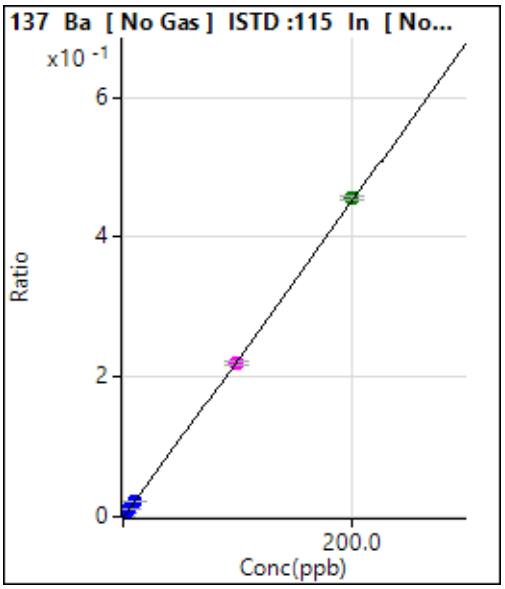
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	500.02	0.0004	P	15.2	
2	☐	2.000	1.854	27265.11	0.0228	P	2.9	-7.3
3	☐	5.000	4.709	67310.56	0.0573	P	1.9	-5.8
4	☐	10.000	9.697	136043.29	0.1176	P	2.3	-3.0
5	☐	100.000	95.928	1320040.99	1.1598	A	1.7	-4.1
6	☐	200.000	202.060	2708541.42	2.4424	A	2.6	1.0

y = 0.0121 * x + 4.2496E-004
R = 0.9997
DL = 0.016 ppb
BEC = 0.03516 ppb

Weight: <None>
Min Conc: <None>

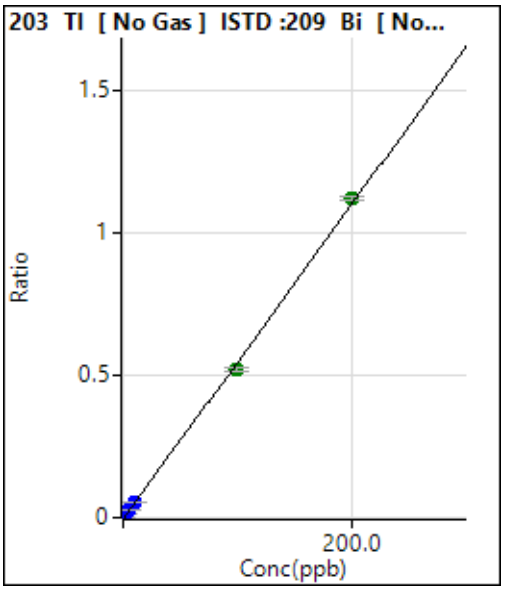


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.15	0.0003	P	10.7	
2	☐	2.000	1.879	24276.29	0.0046	P	2.6	-6.0
3	☐	5.000	4.818	59039.55	0.0112	P	4.2	-3.6
4	☐	10.000	9.605	115501.48	0.0221	P	0.7	-4.0
5	☐	100.000	97.269	1110159.10	0.2204	M	2.9	-2.7
6	☐	200.000	201.391	2235829.65	0.4560	A	1.4	0.7

y = 0.0023 * x + 3.2087E-004
R = 0.9999
DL = 0.04554 ppb
BEC = 0.1418 ppb

Weight: <None>
Min Conc: <None>

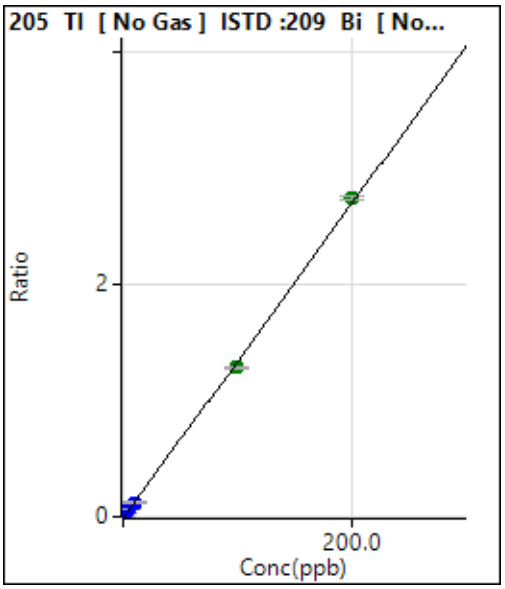
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.14	0.0003	P	7.8	
2	☐	2.000	1.878	55793.72	0.0107	P	2.8	-6.1
3	☐	5.000	4.593	135000.39	0.0257	P	2.0	-8.1
4	☐	10.000	9.304	270992.55	0.0517	P	2.8	-7.0
5	☐	100.000	94.454	2656535.90	0.5223	A	2.8	-5.5
6	☐	200.000	202.819	5571897.42	1.1211	A	0.9	1.4

y = 0.0055 * x + 3.1486E-004
R = 0.9995
DL = 0.01335 ppb
BEC = 0.05697 ppb

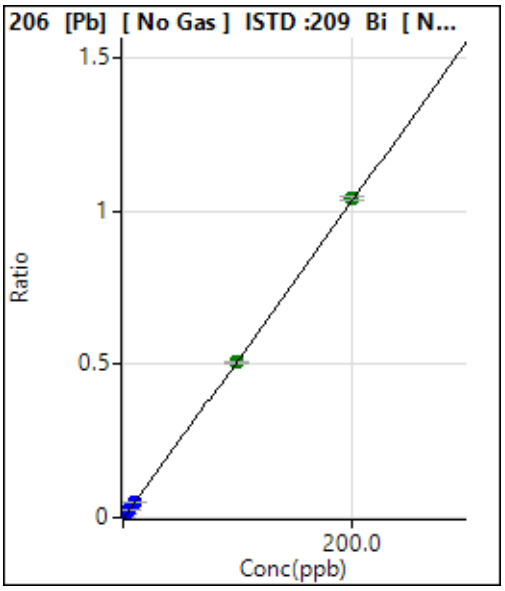
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4244.13	0.0008	P	4.2	
2	☐	2.000	1.804	131364.11	0.0252	P	1.7	-9.8
3	☐	5.000	4.409	317138.36	0.0604	P	2.2	-11.8
4	☐	10.000	9.034	643602.01	0.1229	P	2.6	-9.7
5	☐	100.000	94.683	6510474.90	1.2800	A	1.9	-5.3
6	☐	200.000	202.724	13615678.13	2.7396	A	1.2	1.4

y = 0.0135 * x + 8.0492E-004
R = 0.9995
DL = 0.007506 ppb
BEC = 0.05958 ppb

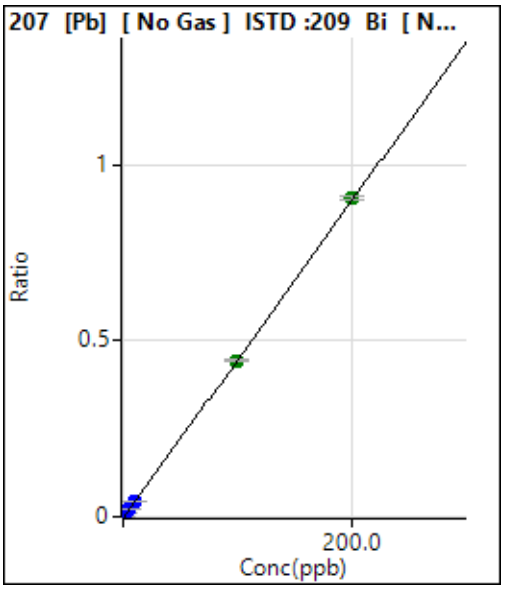
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2093.56	0.0004	P	1.4	
2	☐	2.000	1.997	56105.45	0.0108	P	3.6	-0.1
3	☐	5.000	4.917	136045.56	0.0259	P	1.4	-1.7
4	☐	10.000	9.875	270387.76	0.0516	P	1.2	-1.2
5	☐	100.000	97.799	2581850.59	0.5076	A	1.2	-2.2
6	☐	200.000	201.109	5185454.40	1.0434	A	1.1	0.6

y = 0.0052 * x + 3.9707E-004
R = 0.9999
DL = 0.003131 ppb
BEC = 0.07656 ppb

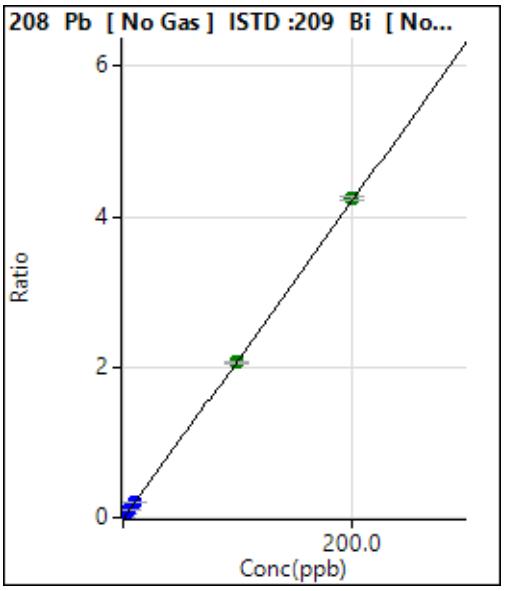
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1683.48	0.0003	P	17.7	
2	☐	2.000	1.953	47653.75	0.0091	P	2.7	-2.3
3	☐	5.000	4.892	117666.31	0.0224	P	1.5	-2.2
4	☐	10.000	9.855	234677.64	0.0448	P	1.0	-1.5
5	☐	100.000	98.236	2256621.22	0.4437	A	1.4	-1.8
6	☐	200.000	200.892	4507385.76	0.9070	A	0.7	0.4

y = 0.0045 * x + 3.1925E-004
R = 0.9999
DL = 0.03765 ppb
BEC = 0.07074 ppb

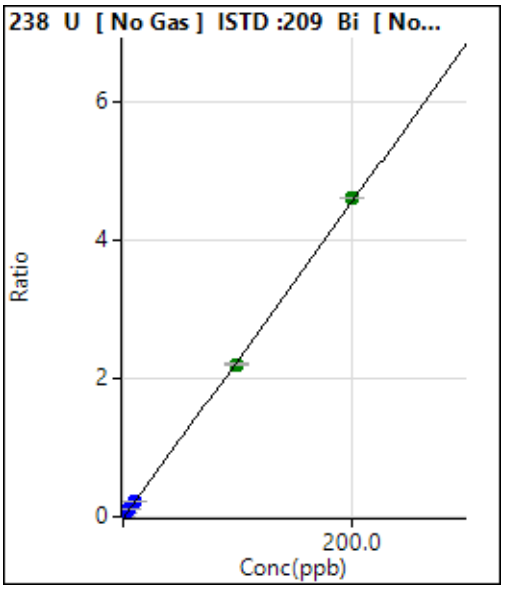
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8201.26	0.0016	P	3.9	
2	☐	2.000	1.928	220534.58	0.0423	P	2.9	-3.6
3	☐	5.000	4.791	539540.36	0.1027	P	1.4	-4.2
4	☐	10.000	9.714	1082670.58	0.2067	P	1.2	-2.9
5	☐	100.000	97.924	10524649.43	2.0692	A	1.2	-2.1
6	☐	200.000	201.058	21106062.91	4.2468	A	1.1	0.5

y = 0.0211 * x + 0.0016
R = 0.9999
DL = 0.008711 ppb
BEC = 0.07367 ppb

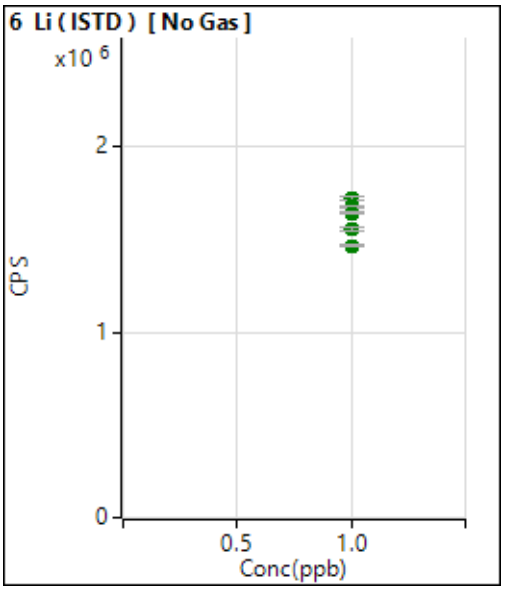
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Min Conc: <None>



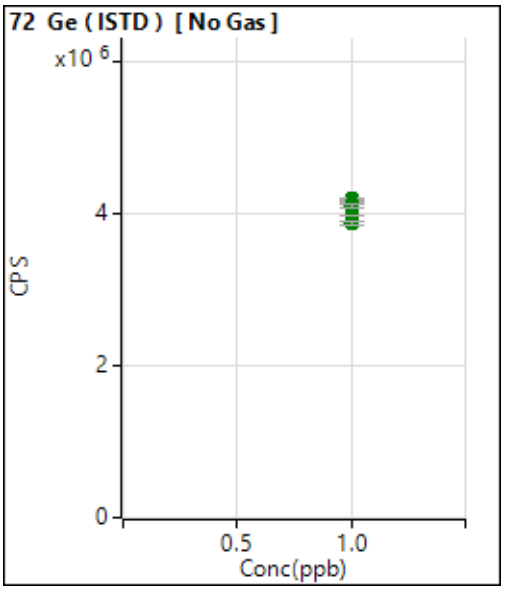
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5417.97	0.0010	P	3.9	
2	☐	2.000	1.829	223446.58	0.0428	P	0.8	-8.5
3	☐	5.000	4.528	548908.05	0.1045	P	1.6	-9.4
4	☐	10.000	9.306	1119428.45	0.2137	P	1.0	-6.9
5	☐	100.000	96.488	11219859.42	2.2059	A	1.4	-3.5
6	☐	200.000	201.804	22922825.49	4.6125	A	0.4	0.9

y = 0.0229 * x + 0.0010
R = 0.9998
DL = 0.005247 ppb
BEC = 0.04497 ppb

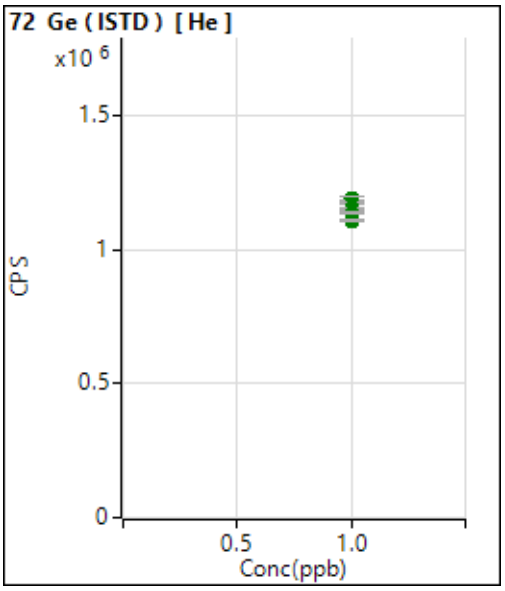
Weight: <None>
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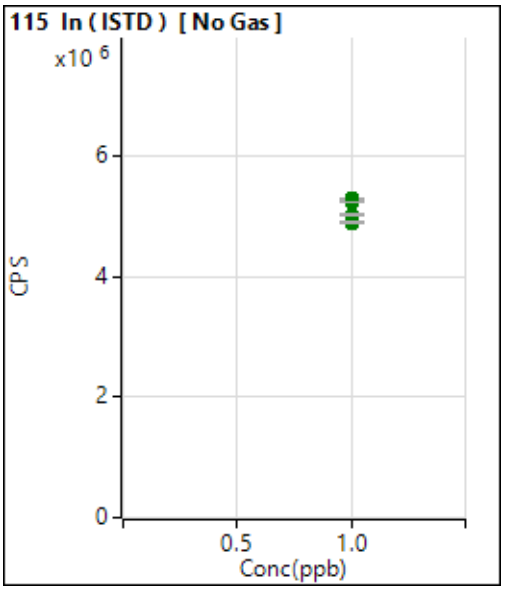
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1709896.43		A	0.1	
2	☐	1.000		1722227.11		A	0.8	
3	☐	1.000		1676112.40		A	0.7	
4	☐	1.000		1644380.63		A	0.5	
5	☐	1.000		1556073.15		A	1.2	
6	☐	1.000		1464767.87		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4162003.17		A	0.4	
2	☐	1.000		4204480.88		A	0.1	
3	☐	1.000		4131653.38		A	0.1	
4	☐	1.000		4103178.79		A	0.7	
5	☐	1.000		3977893.69		A	0.2	
6	☐	1.000		3874294.11		A	0.8	

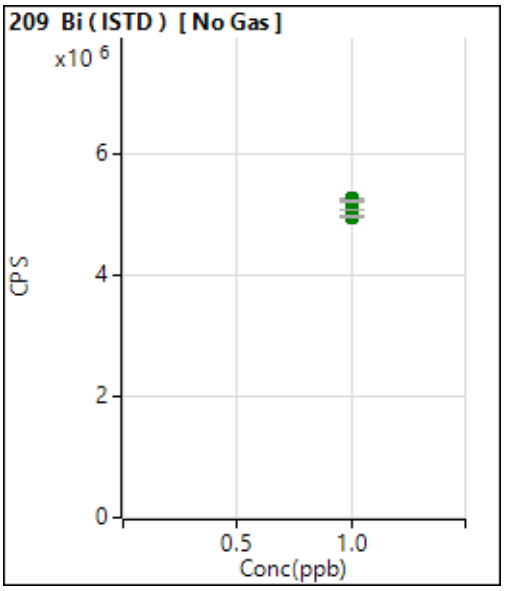


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177618.06		A	1.0	
2	☐	1.000		1193812.90		A	1.4	
3	☐	1.000		1174066.93		A	0.9	
4	☐	1.000		1156621.96		A	0.7	
5	☐	1.000		1138105.48		A	0.7	
6	☐	1.000		1109115.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5301074.33		A	0.7	
2	☐	1.000		5309002.67		A	0.4	
3	☐	1.000		5261197.90		A	0.4	
4	☐	1.000		5237070.79		A	0.0	
5	☐	1.000		5036649.90		A	0.1	
6	☐	1.000		4903058.98		A	0.8	

Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5272521.38		A	0.1	
2	☐	1.000		5216993.47		A	0.7	
3	☐	1.000		5253118.88		A	0.0	
4	☐	1.000		5239227.94		A	0.6	
5	☐	1.000		5086380.97		A	0.1	
6	☐	1.000		4969671.91		A	0.5	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:33:10-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	95109	0.00
Be	9	1	No Gas	370	1.59
V	51	2	He	5107	0.02
Cr	52	2	He	12653	0.03
Fe	56	2	He	43279	0.00
Se	78	2	He	159	5.29
As	75	2	He	357	1.83
Ca	44	2	He	1370	1.12
Na	23	2	He	288606	0.00
Mg	24	2	He	2800	0.09
K	39	2	He	119098	0.00
Mn	55	2	He	1773	0.26
Co	59	2	He	1033	1.13
Ni	60	2	He	1370	0.19
Cu	63	2	He	1290	1.34
Zn	66	2	He	1547	0.42
Al	27	2	He	2067	0.14
B	11	1	No Gas	19585	0.01
Al	27	1	No Gas	79772	0.00
Si	28	1	No Gas	438319	0.00
Ag	107	1	No Gas	1473	0.65
Cd	111	1	No Gas	162	10.16
Sr	88	1	No Gas	4904	0.16
Mo	95	1	No Gas	383	5.71
Sn	118	1	No Gas	8673	0.06
Sb	121	1	No Gas	1300	0.48
Ba	137	1	No Gas	1700	0.59
Tl	205	1	No Gas	4244	0.10
Tl	203	1	No Gas	1660	0.47
Pb	208	1	No Gas	8201	0.05
U	238	1	No Gas	5418	0.07
Ca	43	2	He	53	81.19
Sb	121	2	He	500	2.88
Ti	47	2	He	27	162.38
Cu	63	1	No Gas	7609	0.06

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1709896	0.13
Ge	72	2	He	1177618	0.96
Ge	72	1	No Gas	4162003	0.40
In	115	1	No Gas	5301074	0.66

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	5272521	0.12

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:35:53-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	13333	0.02
V	51	2	He	23910	0.00
Cr	52	2	He	31466	0.00
Fe	56	2	He	2218555	0.00
Se	78	2	He	525	1.23
As	75	2	He	3928	0.12
Ca	44	2	He	15048	0.01
Na	23	2	He	622282	0.00
Mg	24	2	He	218868	0.00
K	39	2	He	372136	0.00
Mn	55	2	He	19250	0.01
Co	59	2	He	37254	0.01
Ni	60	2	He	10908	0.06
Cu	63	2	He	26112	0.01
Zn	66	2	He	7239	0.01
Al	27	2	He	3137	0.27
B	11	1	No Gas	53786	0.00
Al	27	1	No Gas	123569	0.00
Si	28	1	No Gas	568752	0.00
Ag	107	1	No Gas	73196	0.00
Cd	111	1	No Gas	14306	0.02
Sr	88	1	No Gas	137527	0.00
Mo	95	1	No Gas	26266	0.02
Sn	118	1	No Gas	50235	0.00
Sb	121	1	No Gas	63070	0.00
Ba	137	1	No Gas	24276	0.01
Tl	205	1	No Gas	131364	0.00
Tl	203	1	No Gas	55794	0.01
Pb	208	1	No Gas	220535	0.00
U	238	1	No Gas	223447	0.00
Ca	43	2	He	957	0.78
Sb	121	2	He	27265	0.01
Cu	63	1	No Gas	60252	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1722227	0.78	1709896	100.72	70	120	
Ge	72	2	He	1193813	1.42	1177618	101.38	70	120	
Ge	72	1	No Gas	4204481	0.06	4162003	101.02	70	120	

Calibration Standard Report

In	115	1	No Gas	5309003	0.40	5301074	100.15	70	120	
Bi	209	1	No Gas	5216993	0.65	5272521	98.95	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:38:34-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	31983	0.01
V	51	2	He	54555	0.01
Cr	52	2	He	70171	0.00
Fe	56	2	He	5508641	0.00
Se	78	2	He	981	0.44
As	75	2	He	9565	0.05
Ca	44	2	He	33828	0.01
Na	23	2	He	1151604	0.00
Mg	24	2	He	539864	0.00
K	39	2	He	748984	0.00
Mn	55	2	He	47141	0.00
Co	59	2	He	91278	0.00
Ni	60	2	He	24392	0.01
Cu	63	2	He	63848	0.00
Zn	66	2	He	13300	0.02
Al	27	2	He	5845	0.01
B	11	1	No Gas	106566	0.00
Al	27	1	No Gas	232171	0.00
Si	28	1	No Gas	759669	0.00
Ag	107	1	No Gas	178888	0.00
Cd	111	1	No Gas	35057	0.01
Sr	88	1	No Gas	337079	0.00
Mo	95	1	No Gas	65532	0.00
Sn	118	1	No Gas	120829	0.00
Sb	121	1	No Gas	153386	0.00
Ba	137	1	No Gas	59040	0.01
Tl	205	1	No Gas	317138	0.00
Tl	203	1	No Gas	135000	0.00
Pb	208	1	No Gas	539540	0.00
U	238	1	No Gas	548908	0.00
Ca	43	2	He	1970	0.12
Sb	121	2	He	67311	0.00
Cu	63	1	No Gas	137859	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1676112	0.69	1709896	98.02	70	120	
Ge	72	2	He	1174067	0.85	1177618	99.70	70	120	
Ge	72	1	No Gas	4131653	0.14	4162003	99.27	70	120	

Calibration Standard Report

In	115	1	No Gas	5261198	0.45	5301074	99.25	70	120	
Bi	209	1	No Gas	5253119	0.02	5272521	99.63	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:41:15-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	63340	0.00
V	51	2	He	105328	0.00
Cr	52	2	He	129189	0.00
Fe	56	2	He	11078721	0.00
Se	78	2	He	1851	0.25
As	75	2	He	18745	0.01
Ca	44	2	He	67564	0.00
Na	23	2	He	2041607	0.00
Mg	24	2	He	1092520	0.00
K	39	2	He	1400575	0.00
Mn	55	2	He	92012	0.00
Co	59	2	He	184354	0.00
Ni	60	2	He	49315	0.01
Cu	63	2	He	126313	0.00
Zn	66	2	He	25053	0.01
Al	27	2	He	8816	0.06
B	11	1	No Gas	198327	0.00
Al	27	1	No Gas	358455	0.00
Si	28	1	No Gas	1090528	0.00
Ag	107	1	No Gas	356861	0.00
Cd	111	1	No Gas	69462	0.00
Sr	88	1	No Gas	674026	0.00
Mo	95	1	No Gas	129939	0.00
Sn	118	1	No Gas	233896	0.00
Sb	121	1	No Gas	309005	0.00
Ba	137	1	No Gas	115501	0.00
Tl	205	1	No Gas	643602	0.00
Tl	203	1	No Gas	270993	0.00
Pb	208	1	No Gas	1082671	0.00
U	238	1	No Gas	1119428	0.00
Ca	43	2	He	4187	0.12
Sb	121	2	He	136043	0.00
Cu	63	1	No Gas	267931	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1644381	0.55	1709896	96.17	70	120	
Ge	72	2	He	1156622	0.70	1177618	98.22	70	120	
Ge	72	1	No Gas	4103179	0.74	4162003	98.59	70	120	

Calibration Standard Report

In	115	1	No Gas	5237071	0.05	5301074	98.79	70	120	
Bi	209	1	No Gas	5239228	0.62	5272521	99.37	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:43:54-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	581352	0.00
V	51	2	He	908004	0.00
Cr	52	2	He	1037560	0.00
Fe	56	2	He	97268009	0.00
Se	78	2	He	15265	0.01
As	75	2	He	163974	0.00
Ca	44	2	He	588568	0.00
Na	23	2	He	15964244	0.00
Mg	24	2	He	9738579	0.00
K	39	2	He	11552115	0.00
Mn	55	2	He	794929	0.00
Co	59	2	He	1592098	0.00
Ni	60	2	He	412945	0.00
Cu	63	2	He	1094631	0.00
Zn	66	2	He	207911	0.00
Al	27	2	He	64789	0.00
B	11	1	No Gas	1666849	0.00
Al	27	1	No Gas	2575882	0.00
Si	28	1	No Gas	6451698	0.00
Ag	107	1	No Gas	3227566	0.00
Cd	111	1	No Gas	644108	0.00
Sr	88	1	No Gas	6284169	0.00
Mo	95	1	No Gas	1199264	0.00
Sn	118	1	No Gas	2077682	0.00
Sb	121	1	No Gas	2843598	0.00
Ba	137	1	No Gas	1061875	0.00
Tl	205	1	No Gas	6160861	0.00
Tl	203	1	No Gas	2514077	0.00
Pb	208	1	No Gas	10140020	0.00
U	238	1	No Gas	10774259	0.00
Ca	43	2	He	34901	0.01
Sb	121	2	He	1214677	0.00
Cu	63	1	No Gas	2338535	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1554162	0.75	1709896	90.89	70	120	
Ge	72	2	He	1137003	0.71	1177618	96.55	70	120	
Ge	72	1	No Gas	3991943	0.75	4162003	95.91	70	120	

Calibration Standard Report

In	115	1	No Gas	5033692	0.53	5301074	94.96	70	120	
Bi	209	1	No Gas	5121556	0.51	5272521	97.14	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:46:33-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1228024	0.00
V	51	2	He	2015090	0.00
Cr	52	2	He	2284257	0.00
Fe	56	2	He	216728677	0.00
Se	78	2	He	33953	0.01
As	75	2	He	363060	0.00
Ca	44	2	He	1324475	0.00
Na	23	2	He	35044964	0.00
Mg	24	2	He	21464943	0.00
K	39	2	He	25347164	0.00
Mn	55	2	He	1784314	0.00
Co	59	2	He	3527645	0.00
Ni	60	2	He	904124	0.00
Cu	63	2	He	2413664	0.00
Zn	66	2	He	453103	0.00
Al	27	2	He	140455	0.00
B	11	1	No Gas	3510760	0.00
Al	27	1	No Gas	5281948	0.00
Si	28	1	No Gas	12953964	0.00
Ag	107	1	No Gas	6738256	0.00
Cd	111	1	No Gas	1343775	0.00
Sr	88	1	No Gas	13219902	0.00
Mo	95	1	No Gas	2555597	0.00
Sn	118	1	No Gas	4348892	0.00
Sb	121	1	No Gas	5937646	0.00
Ba	137	1	No Gas	2235830	0.00
Tl	205	1	No Gas	13615678	0.00
Tl	203	1	No Gas	5571897	0.00
Pb	208	1	No Gas	21106063	0.00
U	238	1	No Gas	22922825	0.00
Ca	43	2	He	76872	0.00
Sb	121	2	He	2708541	0.00
Cu	63	1	No Gas	4848459	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1464768	0.54	1709896	85.66	70	120	
Ge	72	2	He	1109115	0.93	1177618	94.18	70	120	
Ge	72	1	No Gas	3874294	0.76	4162003	93.09	70	120	

Calibration Standard Report

In	115	1	No Gas	4903059	0.84	5301074	92.49	70	120	
Bi	209	1	No Gas	4969672	0.50	5272521	94.26	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:54:32-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	612588	0.00
V	51	2	He	984012	0.00
Cr	52	2	He	1126568	0.00
Fe	56	2	He	106286848	0.00
Se	78	2	He	16651	0.01
As	75	2	He	179058	0.00
Ca	44	2	He	643072	0.00
Na	23	2	He	17407033	0.00
Mg	24	2	He	10626664	0.00
K	39	2	He	12591436	0.00
Mn	55	2	He	867052	0.00
Co	59	2	He	1739956	0.00
Ni	60	2	He	449401	0.00
Cu	63	2	He	1193031	0.00
Zn	66	2	He	224988	0.00
Al	27	2	He	70232	0.00
B	11	1	No Gas	1751959	0.00
Al	27	1	No Gas	2713648	0.00
Si	28	1	No Gas	6734428	0.00
Ag	107	1	No Gas	3362962	0.00
Cd	111	1	No Gas	665671	0.00
Sr	88	1	No Gas	6609469	0.00
Mo	95	1	No Gas	1260475	0.00
Sn	118	1	No Gas	2179719	0.00
Sb	121	1	No Gas	2970035	0.00
Ba	137	1	No Gas	1110159	0.00
Tl	205	1	No Gas	6510475	0.00
Tl	203	1	No Gas	2656536	0.00
Pb	208	1	No Gas	10524649	0.00
U	238	1	No Gas	11219859	0.00
Ca	43	2	He	37855	0.01
Sb	121	2	He	1320041	0.00
Cu	63	1	No Gas	2461636	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1556073	1.17	1709896	91.00	70	120	
Ge	72	2	He	1138105	0.66	1177618	96.64	70	120	
Ge	72	1	No Gas	3977894	0.15	4162003	95.58	70	120	

Calibration Standard Report

In	115	1	No Gas	5036650	0.07	5301074	95.01	70	120	
Bi	209	1	No Gas	5086381	0.08	5272521	96.47	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	019_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:01:54-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	95.871	1.776	2477598	2.06	100	95.9	90	110	
Be	9	1	No Gas	95.306	1.015	613254	1.35	100	95.3	90	110	
V	51	2	He	98.092	0.893	1017721	1.43	100	98.1	90	110	
Cr	52	2	He	98.598	1.093	1164623	1.58	100	98.6	90	110	
Fe	56	2	He	9861.289	1.490	109936638	2.03	10000	98.6	90	110	
Se	78	2	He	97.877	1.349	17155	1.85	100	97.9	90	110	
As	75	2	He	98.763	0.994	184752	1.52	100	98.8	90	110	
Ca	44	2	He	9802.618	0.378	666948	0.92	10000	98.0	90	110	
Na	23	2	He	9777.302	0.907	17781675	1.44	10000	97.8	90	110	
Mg	24	2	He	9883.176	1.216	10931537	1.76	10000	98.8	90	110	
K	39	2	He	9921.599	0.961	13012715	1.50	10000	99.2	90	110	
Mn	55	2	He	97.656	0.796	895301	1.34	100	97.7	90	110	
Co	59	2	He	98.666	1.494	1792522	2.03	100	98.7	90	110	
Ni	60	2	He	99.460	0.823	464241	1.36	100	99.5	90	110	
Cu	63	2	He	99.362	0.996	1235786	1.53	100	99.4	90	110	
Zn	66	2	He	99.966	0.642	234115	1.15	100	100.0	90	110	
Al	27	2	He	101.737	2.568	74554	2.95	100	101.7	90	110	
B	11	1	No Gas	469.956	0.909	1736412	1.24	500	94.0	90	110	
Al	27	1	No Gas	99.504	2.059	2749289	1.19	100	99.5	90	110	
Si	28	1	No Gas	492.953	2.482	6792772	1.49	500	98.6	90	110	
Ag	107	1	No Gas	99.433	1.708	3431750	1.50	100	99.4	90	110	
Cd	111	1	No Gas	97.871	1.440	672557	1.14	100	97.9	90	110	
Sr	88	1	No Gas	97.963	1.530	6635403	1.24	100	98.0	90	110	
Mo	95	1	No Gas	96.685	1.412	1262472	1.16	100	96.7	90	110	
Sn	118	1	No Gas	98.713	1.895	2203408	1.52	100	98.7	90	110	
Sb	121	1	No Gas	98.604	2.907	3012111	2.12	100	98.6	90	110	
Ba	137	1	No Gas	97.648	2.889	1117428	2.50	100	97.6	90	110	
Tl	205	1	No Gas	97.837	2.122	6681790	2.71	100	97.8	90	110	
Tl	203	1	No Gas	97.160	2.663	2714235	3.28	100	97.2	90	110	
Pb	208	1	No Gas	98.592	1.218	10524480	1.83	100	98.6	90	110	
U	238	1	No Gas	95.856	1.548	11070984	2.15	100	95.9	90	110	
Ca	43	2	He	9910.856	1.235	39239	1.52	10000	99.1	90	110	
Sb	121	2	He	98.221	0.539	1366677	1.08	100	98.2	90	110	
Ti	47	2	He	100.656	2.412	39891	2.74	100	100.7	90	110	
Cu	63	1	No Gas	99.190	2.506	2484232	1.66	100	99.2	90	110	
Se	82	1	No Gas	97.658	1.291	41628	0.52	100	97.7	90	110	
Zr	90	1	No Gas	88.101	1.460	3718324	1.12	100	88.1	90	110	ICV Main CR1 Failed
Zr	90	2	He	88.507	1.126	1519598	1.67	100	88.5	90	1100	ICV Main CR1 Failed

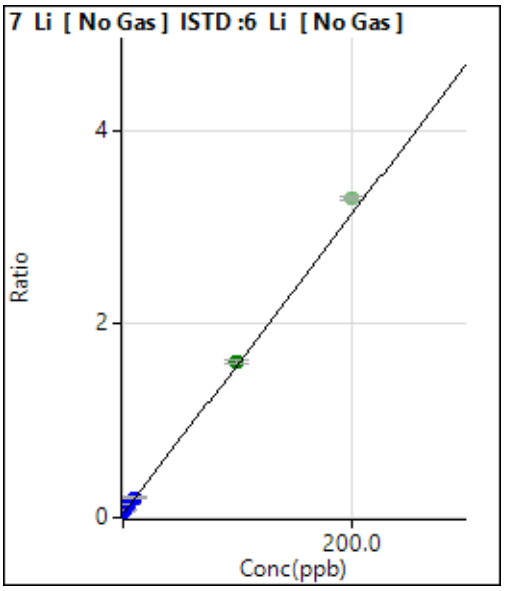
QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1553694	0.38	1709896	90.86	70	120	
Ge	72	2	He	1150873	0.55	1177618	97.73	70	120	
Ge	72	1	No Gas	4006990	0.84	4162003	96.28	70	120	
In	115	1	No Gas	5050272	0.39	5301074	95.27	70	120	
Bi	209	1	No Gas	5051591	0.62	5272521	95.81	70	120	

Calibration for 019_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

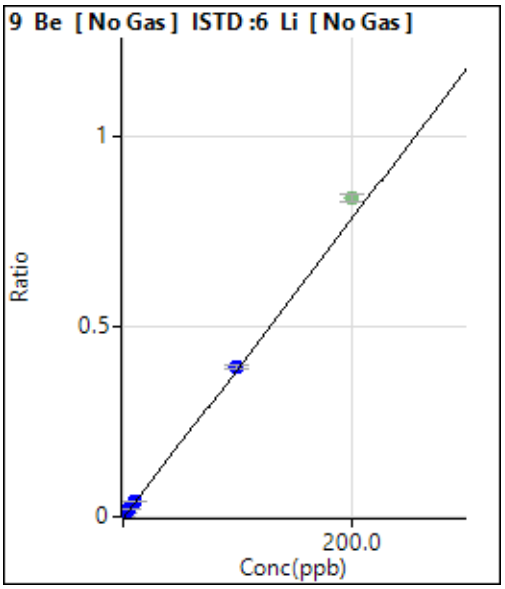
Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/25/2024 10:33:10 AM
2	011CALS.d	2/10/200	6/25/2024 10:35:53 AM
3	012CALS.d	5/25/500	6/25/2024 10:38:34 AM
4	013CALS.d	10/50/100	6/25/2024 10:41:15 AM
5	017CALS.d	100/500/10K	6/25/2024 10:54:32 AM
6	015CALS.d	200/1000/20K	6/25/2024 10:46:33 AM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95109.43	0.0556	P	0.2	
2	☐	2.000	1.920	146884.63	0.0853	P	1.6	-4.0
3	☐	5.000	4.841	218591.44	0.1304	P	1.3	-3.2
4	☐	10.000	9.815	340796.34	0.2073	P	1.2	-1.9
5	☐	100.000	100.028	2490753.19	1.6010	A	2.6	0.0
6	☑	200.000		4828676.80	3.2967	A	1.3	

y = 0.0154 * x + 0.0556
R = 1.0000
DL = 0.02597 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

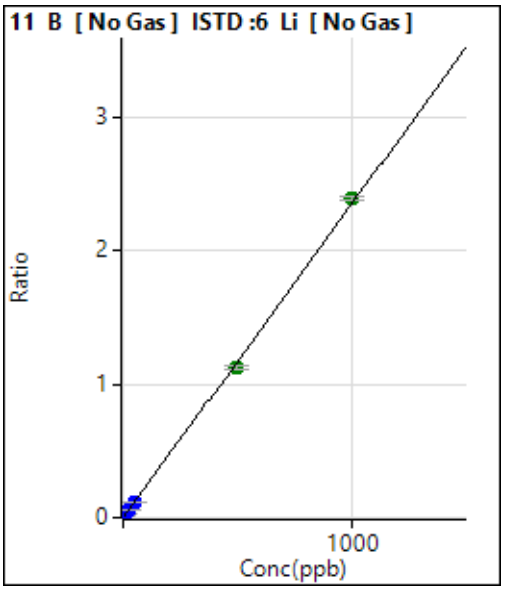


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0002	P	5.8	
2	☐	2.000	1.913	13332.98	0.0077	P	2.5	-4.3
3	☐	5.000	4.795	31982.57	0.0191	P	2.3	-4.1
4	☐	10.000	9.736	63339.98	0.0385	P	1.5	-2.6
5	☐	100.000	100.038	612588.03	0.3938	P	2.9	0.0
6	☑	200.000		1228024.38	0.8384	A	2.0	

y = 0.0039 * x + 2.1639E-004
R = 1.0000
DL = 0.009619 ppb
BEC = 0.055 ppb

Weight: <None>
Min Conc: <None>

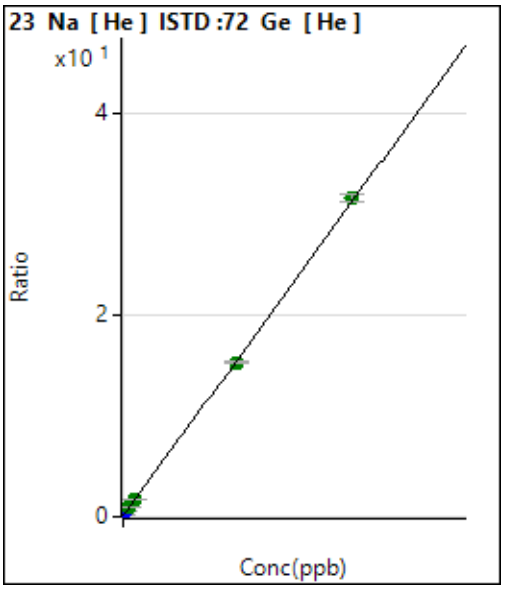
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19585.24	0.0115	P	1.0	
2	☐	10.000	8.404	53786.34	0.0312	P	2.6	-16.0
3	☐	25.000	22.147	106565.72	0.0636	P	0.9	-11.4
4	☐	50.000	46.381	198326.89	0.1206	P	2.3	-7.2
5	☐	500.000	473.544	1751959.19	1.1260	A	1.6	-5.3
6	☐	1000.000	1013.496	3510760.36	2.3969	A	1.3	1.3

y = 0.0024 * x + 0.0115
R = 0.9995
DL = 0.1393 ppb
BEC = 4.866 ppb

Weight: <None>
Min Conc: <None>

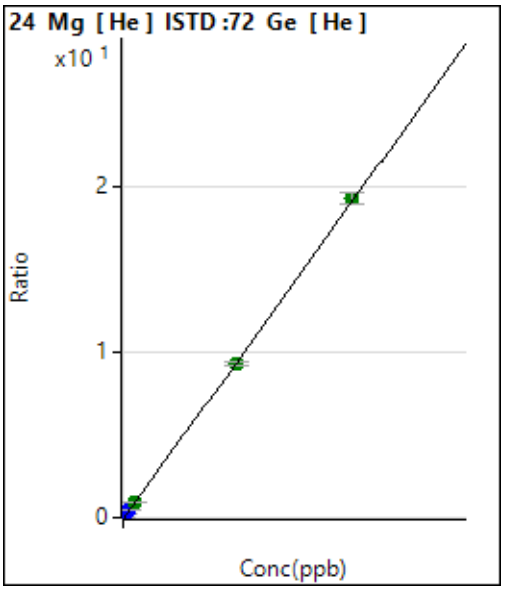


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	288606.42	0.2451	P	1.4	
2	☐	200.000	177.589	622281.82	0.5213	P	1.0	-11.2
3	☐	500.000	473.179	1151604.43	0.9810	A	1.8	-5.4
4	☐	1000.000	977.456	2041607.21	1.7652	A	1.2	-2.3
5	☐	10000.00	9676.744	17407033.07	15.2937	A	1.6	-3.2
6	☐	20000.00	20163.65	3504496448	31.6022	A	2.8	0.8

y = 0.0016 * x + 0.2451
R = 0.9998
DL = 6.411 ppb
BEC = 157.6 ppb

Weight: <None>
Min Conc: <None>

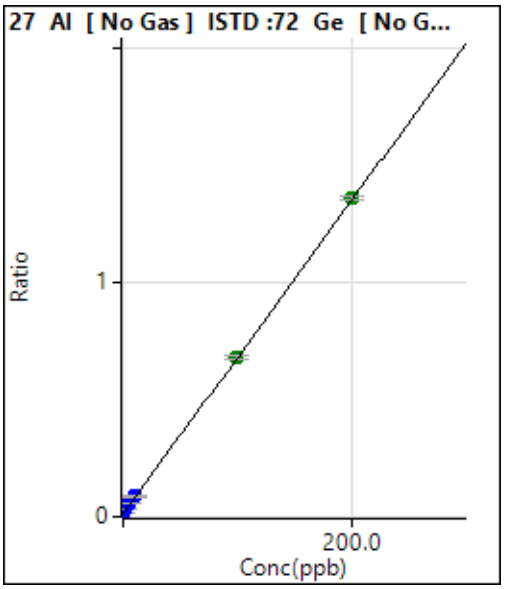
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2800.34	0.0024	P	2.9	
2	☐	200.000	188.332	218868.20	0.1833	P	2.1	-5.8
3	☐	500.000	476.135	539864.42	0.4598	P	1.8	-4.8
4	☐	1000.000	980.631	1092519.88	0.9446	A	1.5	-1.9
5	☐	10000.00	9714.978	10626664.43	9.3364	A	1.8	-2.9
6	☐	20000.00	20144.19	21464943.01	19.3567	A	3.2	0.7

y = 9.6079E-004 * x + 0.0024
R = 0.9999
DL = 0.2145 ppb
BEC = 2.475 ppb

Weight: <None>
Min Conc: <None>

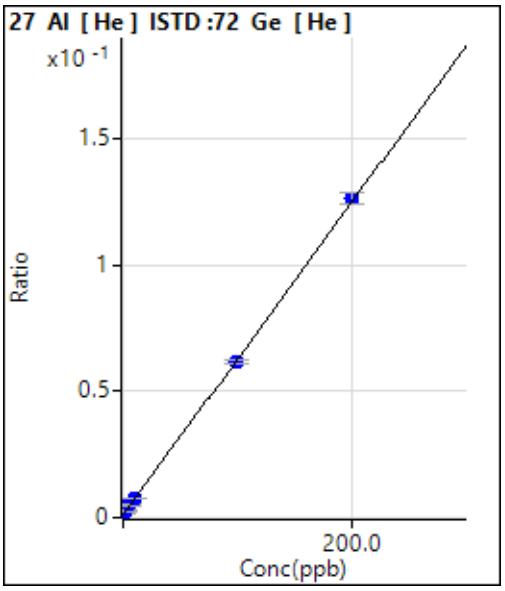


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79772.13	0.0192	P	2.2	
2	☐	2.000	1.525	123569.26	0.0294	P	2.4	-23.8
3	☐	5.000	5.524	232171.49	0.0562	P	7.8	10.5
4	☐	10.000	10.174	358454.78	0.0874	P	2.6	1.7
5	☐	100.000	98.905	2713647.56	0.6822	A	1.7	-1.1
6	☐	200.000	200.531	5281947.84	1.3634	A	1.7	0.3

y = 0.0067 * x + 0.0192
R = 1.0000
DL = 0.1901 ppb
BEC = 2.859 ppb

Weight: <None>
Min Conc: <None>

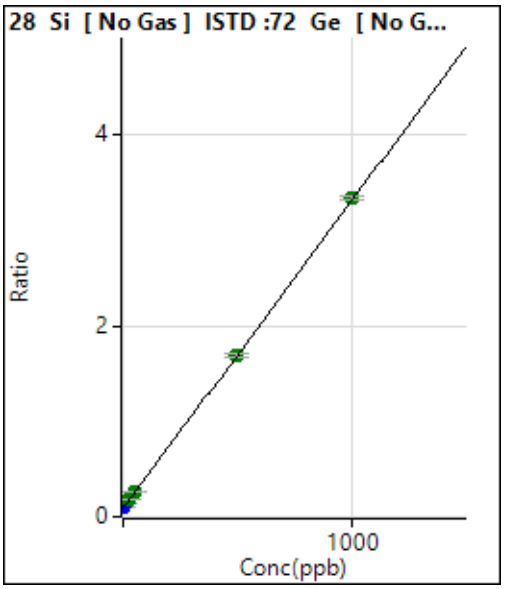
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2066.86	0.0018	P	3.4	
2	☐	2.000	1.406	3137.07	0.0026	P	7.0	-29.7
3	☐	5.000	5.203	5844.66	0.0050	P	1.6	4.1
4	☐	10.000	9.473	8816.28	0.0076	P	5.9	-5.3
5	☐	100.000	96.780	70231.85	0.0617	P	3.0	-3.2
6	☐	200.000	201.637	140454.75	0.1267	P	3.5	0.8

y = 6.1944E-004 * x + 0.0018
R = 0.9998
DL = 0.2864 ppb
BEC = 2.834 ppb

Weight: <None>
Min Conc: <None>

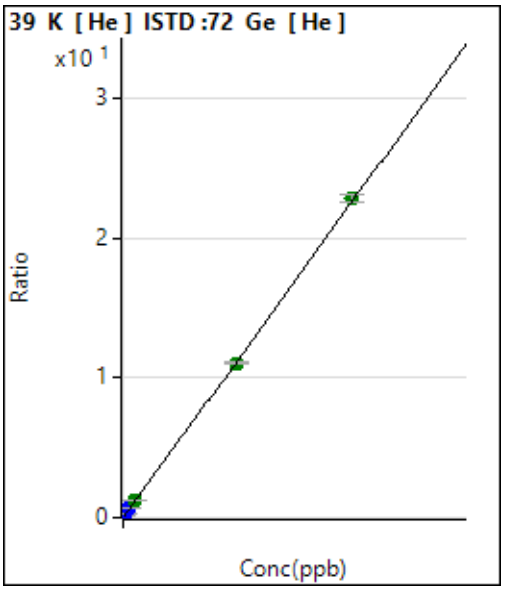


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	438318.65	0.1053	P	0.4	
2	☐	10.000	9.287	568752.14	0.1353	P	0.2	-7.1
3	☐	25.000	24.351	759668.97	0.1839	A	0.1	-2.6
4	☐	50.000	49.749	1090527.61	0.2658	A	1.3	-0.5
5	☐	500.000	492.180	6734428.23	1.6930	A	1.8	-1.6
6	☐	1000.000	1003.946	12953963.98	3.3438	A	1.5	0.4

y = 0.0032 * x + 0.1053
R = 1.0000
DL = 0.4316 ppb
BEC = 32.65 ppb

Weight: <None>
Min Conc: <None>

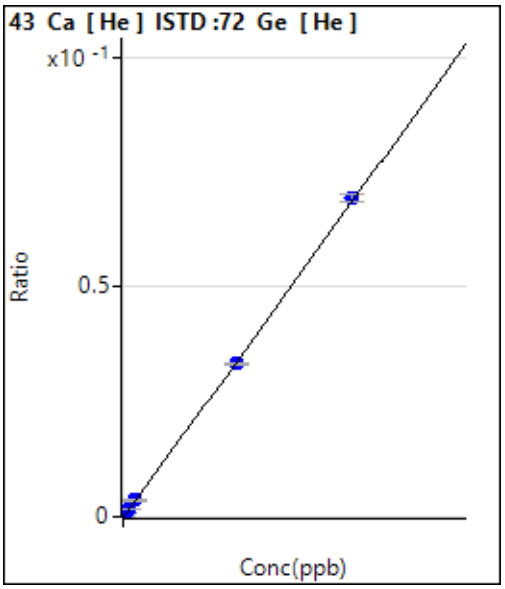
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	119097.76	0.1011	P	0.3	
2	☐	200.000	186.455	372135.50	0.3117	P	0.3	-6.8
3	☐	500.000	475.349	748983.87	0.6380	P	1.9	-4.9
4	☐	1000.000	982.636	1400574.72	1.2109	A	1.3	-1.7
5	☐	10000.00	9705.924	12591435.65	11.0629	A	1.7	-2.9
6	☐	20000.00	20148.65	25347163.79	22.8567	A	2.3	0.7

y = 0.0011 * x + 0.1011
R = 0.9999
DL = 0.6747 ppb
BEC = 89.55 ppb

Weight: <None>
Min Conc: <None>

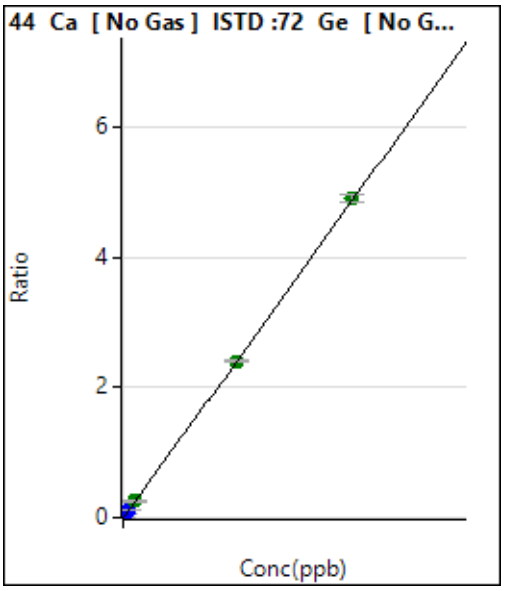


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	44.0	
2	☐	200.000	220.012	956.72	0.0008	P	6.9	10.0
3	☐	500.000	475.202	1970.17	0.0017	P	1.5	-5.0
4	☐	1000.000	1040.743	4187.37	0.0036	P	5.6	4.1
5	☐	10000.00	9668.254	37855.14	0.0333	P	1.7	-3.3
6	☐	20000.00	20164.25	76871.75	0.0693	P	2.5	0.8

y = 3.4355E-006 * x + 4.5378E-005
R = 0.9998
DL = 17.45 ppb
BEC = 13.21 ppb

Weight: <None>
Min Conc: <None>

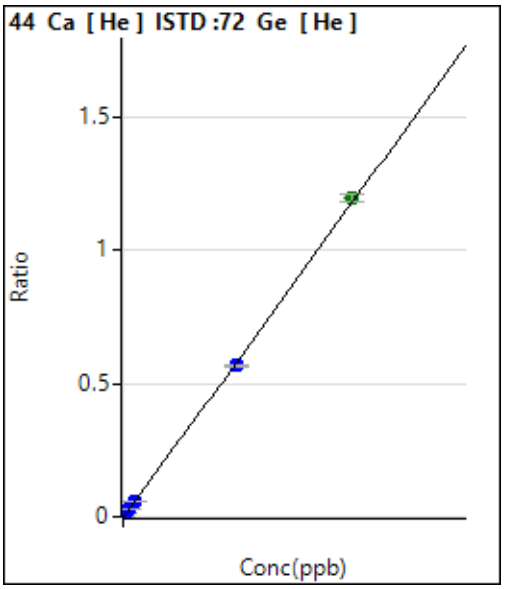
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54075.33	0.0130	P	1.7	
2	☐	200.000	198.146	257829.67	0.0613	P	1.6	-0.9
3	☐	500.000	486.430	543875.83	0.1316	P	2.3	-2.7
4	☐	1000.000	981.332	1035362.72	0.2524	A	1.5	-1.9
5	☐	10000.00	9825.374	9584837.57	2.4095	A	2.1	-1.7
6	☐	20000.00	20088.60	19032093.05	4.9128	A	2.3	0.4

y = 2.4391E-004 * x + 0.0130
R = 0.9999
DL = 2.69 ppb
BEC = 53.27 ppb

Weight: <None>
Min Conc: <None>

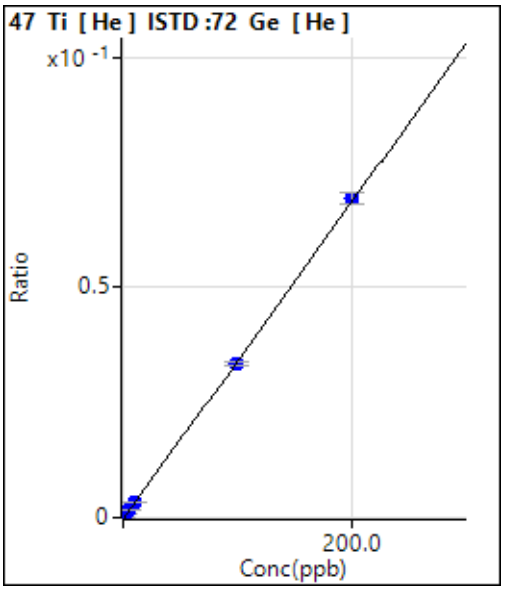


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	15.2	
2	☐	200.000	193.959	15048.30	0.0126	P	2.3	-3.0
3	☐	500.000	468.624	33828.14	0.0288	P	1.5	-6.3
4	☐	1000.000	970.349	67563.50	0.0584	P	2.2	-3.0
5	☐	10000.00	9557.200	643072.29	0.5650	P	1.4	-4.4
6	☐	20000.00	20223.72	1324475.06	1.1943	A	2.6	1.1

y = 5.8999E-005 * x + 0.0012
R = 0.9997
DL = 9 ppb
BEC = 19.72 ppb

Weight: <None>
Min Conc: <None>

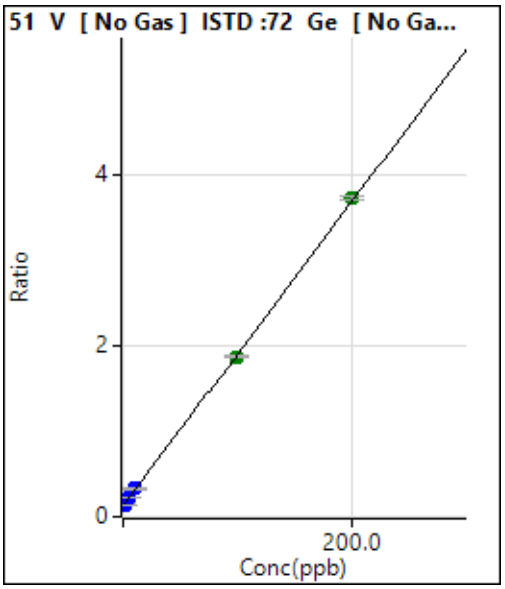
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	44.0	
2	☐	2.000	1.824	776.70	0.0007	P	5.7	-8.8
3	☐	5.000	4.469	1833.49	0.0016	P	12.4	-10.6
4	☐	10.000	9.439	3783.92	0.0033	P	4.4	-5.6
5	☐	100.000	97.296	38132.74	0.0335	P	2.0	-2.7
6	☐	200.000	201.395	76872.09	0.0693	P	3.7	0.7

y = 3.4411E-004 * x + 2.2689E-005
R = 0.9999
DL = 0.08712 ppb
BEC = 0.06593 ppb

Weight: <None>
Min Conc: <None>

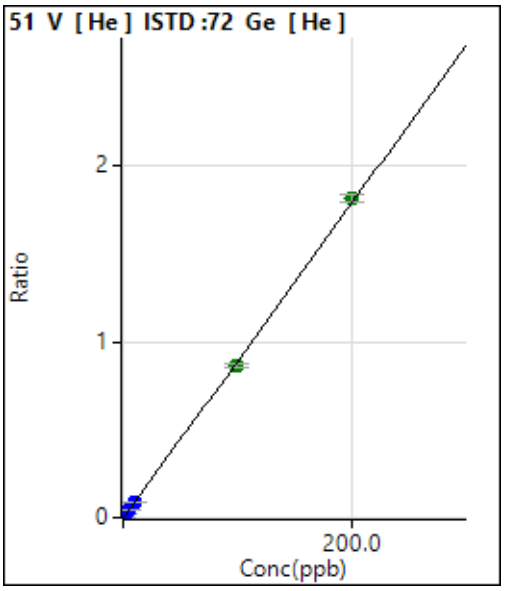


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	623488.18	0.1498	P	1.4	
2	☐	2.000	-0.404	599723.22	0.1426	P	1.6	-120.2
3	☐	5.000	4.124	921434.11	0.2230	P	1.8	-17.5
4	☐	10.000	9.910	1336488.84	0.3257	P	1.1	-0.9
5	☐	100.000	96.962	7443170.55	1.8711	A	1.6	-3.0
6	☐	200.000	201.570	14443088.49	3.7282	A	1.8	0.8

y = 0.0178 * x + 0.1498
R = 0.9998
DL = 0.3599 ppb
BEC = 8.439 ppb

Weight: <None>
Min Conc: <None>

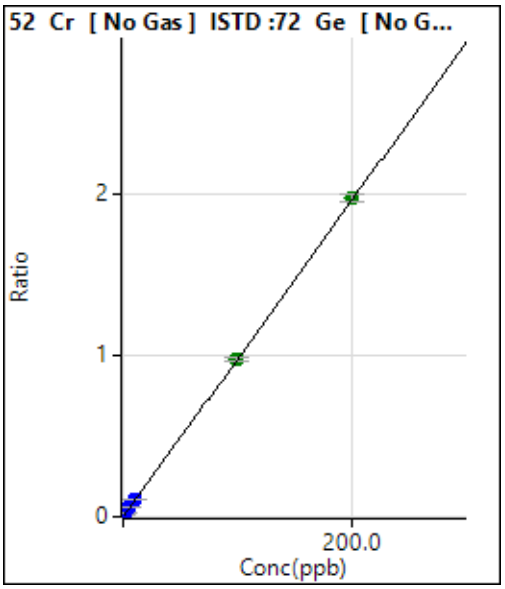
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5106.53	0.0043	P	1.3	
2	☐	2.000	1.750	23909.53	0.0200	P	1.6	-12.5
3	☐	5.000	4.697	54554.53	0.0465	P	2.7	-6.1
4	☐	10.000	9.668	105327.92	0.0911	P	2.7	-3.3
5	☐	100.000	95.893	984011.87	0.8645	A	1.7	-4.1
6	☐	200.000	202.080	2015089.64	1.8171	A	3.0	1.0

y = 0.0090 * x + 0.0043
R = 0.9997
DL = 0.01826 ppb
BEC = 0.4834 ppb

Weight: <None>
Min Conc: <None>

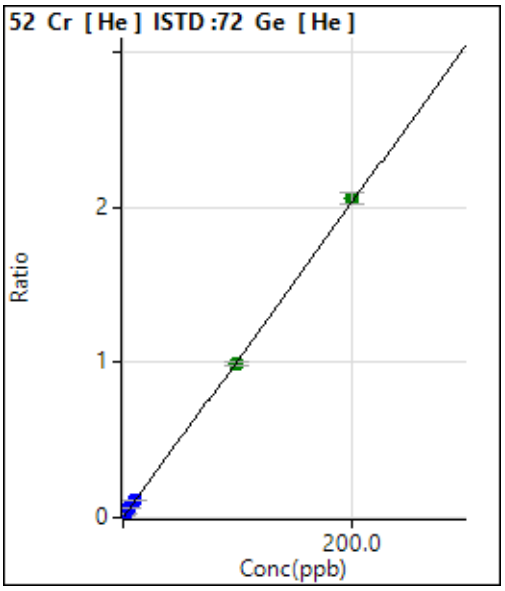


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37434.31	0.0090	P	2.1	
2	☐	2.000	1.766	110679.48	0.0263	P	1.8	-11.7
3	☐	5.000	4.828	232859.77	0.0564	P	1.3	-3.4
4	☐	10.000	9.872	434256.59	0.1058	P	1.5	-1.3
5	☐	100.000	98.544	3881322.96	0.9757	A	1.8	-1.5
6	☐	200.000	200.741	7663884.26	1.9783	A	1.9	0.4

y = 0.0098 * x + 0.0090
R = 1.0000
DL = 0.05682 ppb
BEC = 0.9169 ppb

Weight: <None>
Min Conc: <None>

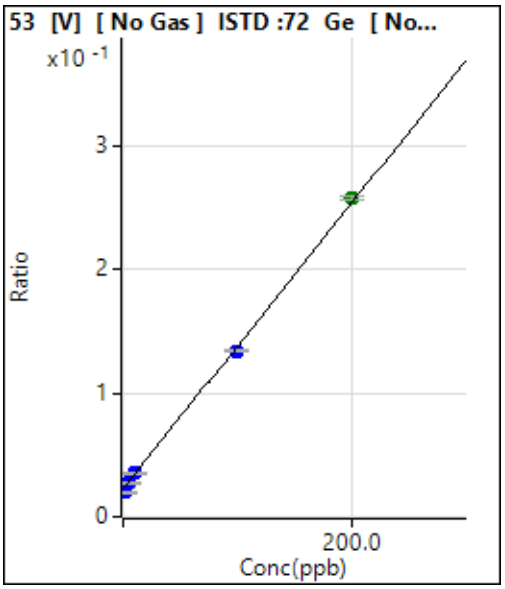
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12652.62	0.0107	P	4.0	
2	☐	2.000	1.538	31466.12	0.0264	P	1.3	-23.1
3	☐	5.000	4.828	70170.90	0.0598	P	2.5	-3.4
4	☐	10.000	9.941	129188.69	0.1117	P	2.7	-0.6
5	☐	100.000	96.416	1126568.11	0.9898	A	2.4	-3.6
6	☐	200.000	201.804	2284256.84	2.0599	A	3.2	0.9

y = 0.0102 * x + 0.0107
R = 0.9998
DL = 0.1276 ppb
BEC = 1.058 ppb

Weight: <None>
Min Conc: <None>

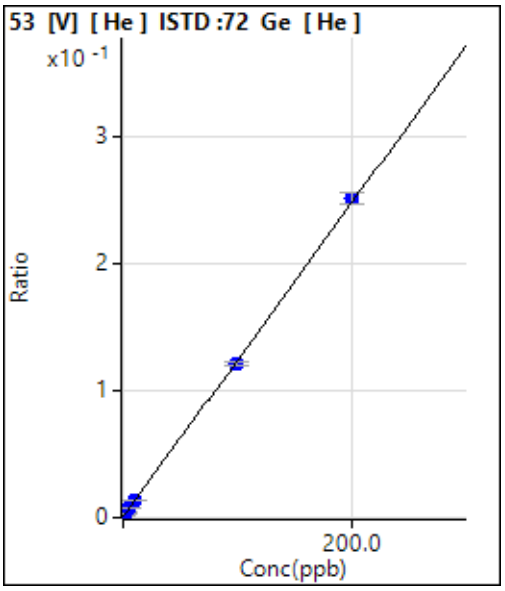


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101036.73	0.0243	P	1.8	
2	☐	2.000	-4.140	81968.87	0.0195	P	2.1	-307.0
3	☐	5.000	2.731	113331.30	0.0274	P	2.6	-45.4
4	☐	10.000	9.394	144120.20	0.0351	P	0.9	-6.1
5	☐	100.000	95.281	534242.26	0.1343	P	1.3	-4.7
6	☐	200.000	202.508	999993.19	0.2581	A	1.4	1.3

y = 0.0012 * x + 0.0243
R = 0.9994
DL = 1.125 ppb
BEC = 21.02 ppb

Weight: <None>
Min Conc: <None>

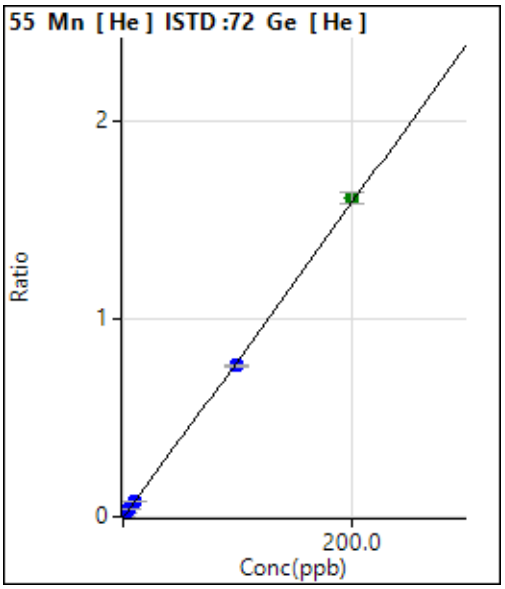
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2336.92	0.0020	P	0.1	
2	☐	2.000	1.449	4500.82	0.0038	P	3.2	-27.5
3	☐	5.000	4.493	8833.00	0.0075	P	6.0	-10.1
4	☐	10.000	9.573	15946.03	0.0138	P	1.4	-4.3
5	☐	100.000	96.223	137279.10	0.1206	P	2.1	-3.8
6	☐	200.000	201.928	278261.94	0.2509	P	3.1	1.0

y = 0.0012 * x + 0.0020
R = 0.9998
DL = 0.003174 ppb
BEC = 1.61 ppb

Weight: <None>
Min Conc: <None>

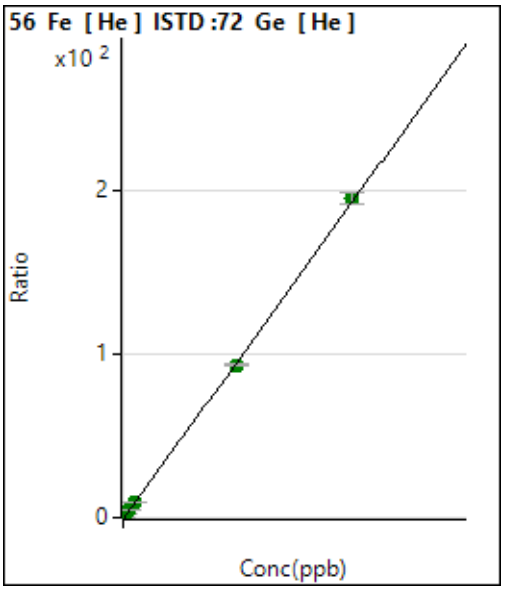


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1773.48	0.0015	P	5.5	
2	☐	2.000	1.839	19250.32	0.0161	P	2.2	-8.0
3	☐	5.000	4.861	47140.58	0.0402	P	1.7	-2.8
4	☐	10.000	9.816	92011.73	0.0795	P	2.8	-1.8
5	☐	100.000	95.630	867052.17	0.7618	P	1.4	-4.4
6	☐	200.000	202.199	1784314.40	1.6091	A	3.4	1.1

y = 0.0080 * x + 0.0015
R = 0.9997
DL = 0.03105 ppb
BEC = 0.1895 ppb

Weight: <None>
Min Conc: <None>

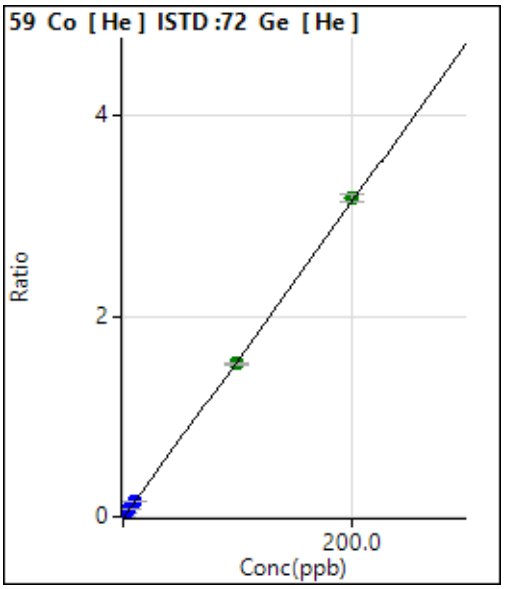
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43278.54	0.0367	P	0.9	
2	☐	200.000	188.123	2218554.55	1.8583	A	1.2	-5.9
3	☐	500.000	480.763	5508640.75	4.6918	A	2.3	-3.8
4	☐	1000.000	985.434	11078721.09	9.5783	A	2.2	-1.5
5	☐	10000.00	9640.722	106286848.4	93.3839	A	1.3	-3.6
6	☐	20000.00	20180.96	216728676.7	195.440	A	3.2	0.9

y = 0.0097 * x + 0.0367
R = 0.9998
DL = 0.1028 ppb
BEC = 3.795 ppb

Weight: <None>
Min Conc: <None>

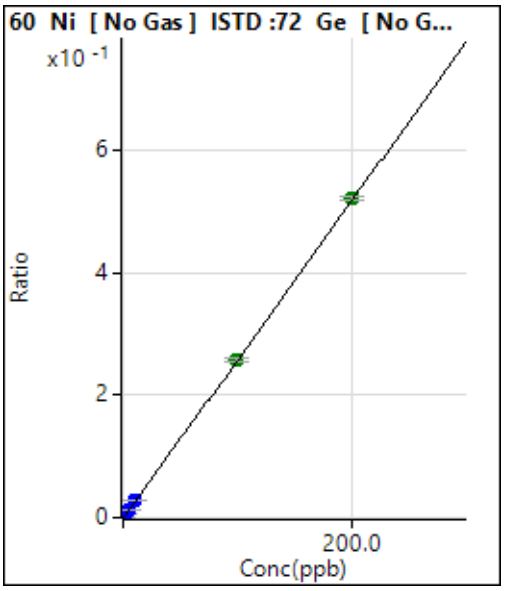


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1033.39	0.0009	P	12.3	
2	☐	2.000	1.923	37253.94	0.0312	P	4.1	-3.9
3	☐	5.000	4.873	91277.55	0.0777	P	3.4	-2.5
4	☐	10.000	10.047	184353.51	0.1594	P	2.7	0.5
5	☐	100.000	96.844	1739956.22	1.5287	A	1.6	-3.2
6	☐	200.000	201.580	3527645.26	3.1810	A	2.4	0.8

y = 0.0158 * x + 8.7793E-004
R = 0.9998
DL = 0.02052 ppb
BEC = 0.05565 ppb

Weight: <None>
Min Conc: <None>

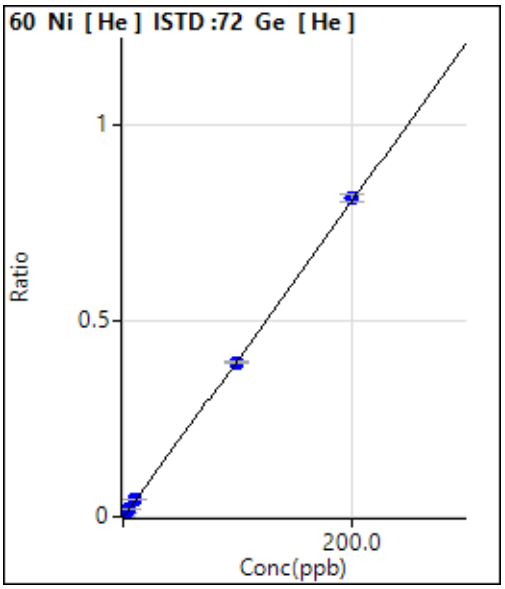
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4237.40	0.0010	P	1.1	
2	☐	2.000	1.918	25250.18	0.0060	P	1.5	-4.1
3	☐	5.000	4.998	57898.44	0.0140	P	2.2	0.0
4	☐	10.000	10.113	112049.36	0.0273	P	1.1	1.1
5	☐	100.000	98.616	1023925.77	0.2574	A	2.1	-1.4
6	☐	200.000	200.687	2025283.09	0.5228	A	1.4	0.3

y = 0.0026 * x + 0.0010
R = 1.0000
DL = 0.01257 ppb
BEC = 0.3916 ppb

Weight: <None>
Min Conc: <None>

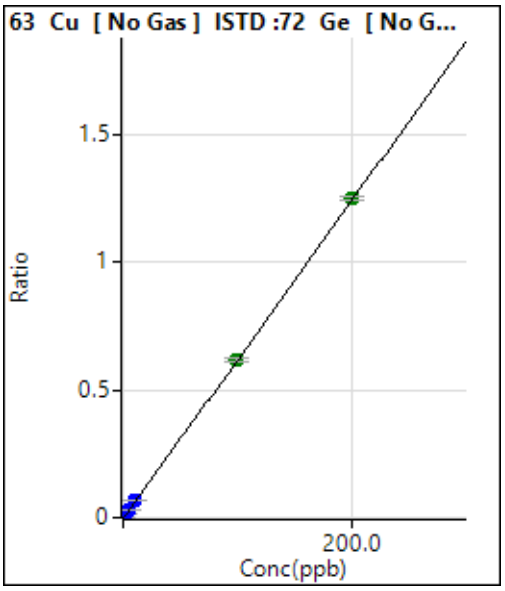


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	2.3	
2	☐	2.000	1.973	10907.82	0.0091	P	7.7	-1.3
3	☐	5.000	4.850	24391.83	0.0208	P	2.6	-3.0
4	☐	10.000	10.255	49315.27	0.0426	P	2.2	2.6
5	☐	100.000	97.350	449400.83	0.3948	P	1.8	-2.7
6	☐	200.000	201.316	904123.53	0.8153	P	2.0	0.7

y = 0.0040 * x + 0.0012
R = 0.9999
DL = 0.0196 ppb
BEC = 0.2877 ppb

Weight: <None>
Min Conc: <None>

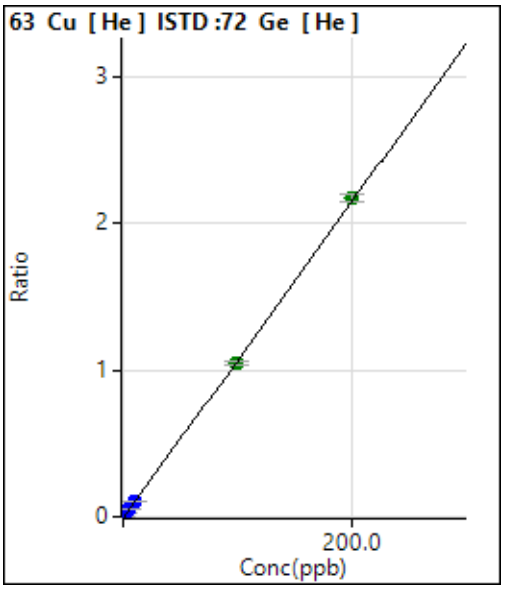
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7608.90	0.0018	P	4.3	
2	☐	2.000	2.006	60252.13	0.0143	P	3.6	0.3
3	☐	5.000	5.060	137858.86	0.0334	P	2.6	1.2
4	☐	10.000	10.184	267930.58	0.0653	P	2.0	1.8
5	☐	100.000	98.992	2461635.85	0.6188	A	1.8	-1.0
6	☐	200.000	200.493	4848458.99	1.2515	A	1.2	0.2

y = 0.0062 * x + 0.0018
R = 1.0000
DL = 0.03749 ppb
BEC = 0.2933 ppb

Weight: <None>
Min Conc: <None>

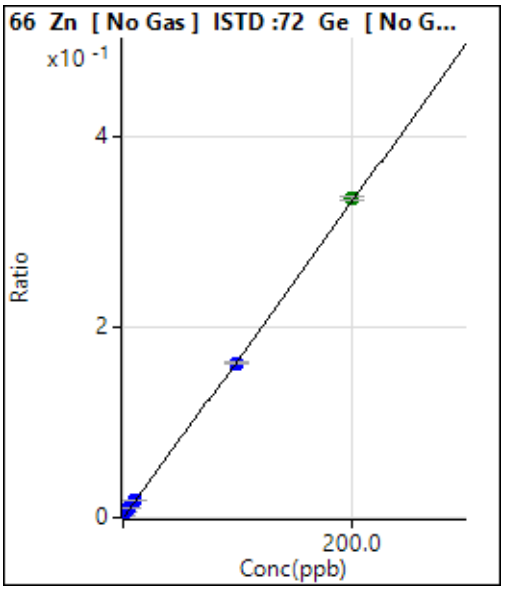


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.09	0.0011	P	16.3	
2	☐	2.000	1.925	26111.82	0.0219	P	2.4	-3.8
3	☐	5.000	4.936	63848.37	0.0544	P	1.2	-1.3
4	☐	10.000	10.015	126312.89	0.1092	P	0.4	0.1
5	☐	100.000	96.995	1193030.61	1.0482	A	1.7	-3.0
6	☐	200.000	201.504	2413664.39	2.1764	A	1.8	0.8

y = 0.0108 * x + 0.0011
R = 0.9998
DL = 0.04961 ppb
BEC = 0.1014 ppb

Weight: <None>
Min Conc: <None>

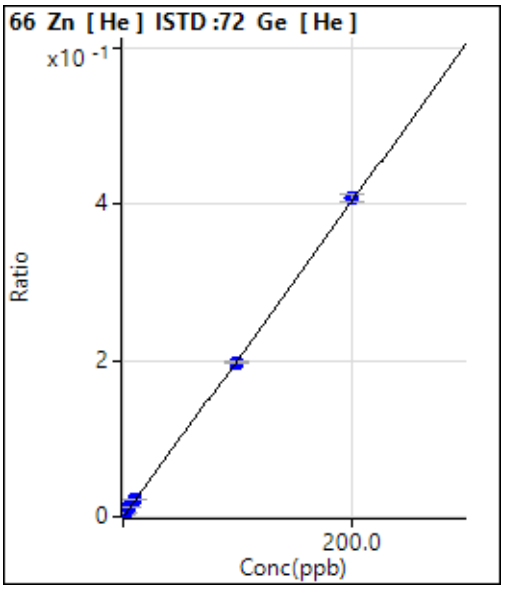
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4424.13	0.0011	P	4.0	
2	☐	2.000	2.492	21897.70	0.0052	P	3.4	24.6
3	☐	5.000	5.019	38885.42	0.0094	P	4.4	0.4
4	☐	10.000	10.061	73027.29	0.0178	P	1.2	0.6
5	☐	100.000	97.306	648074.41	0.1629	P	2.0	-2.7
6	☐	200.000	201.339	1301588.63	0.3360	A	1.5	0.7

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.07603 ppb
BEC = 0.639 ppb

Weight: <None>
Min Conc: <None>

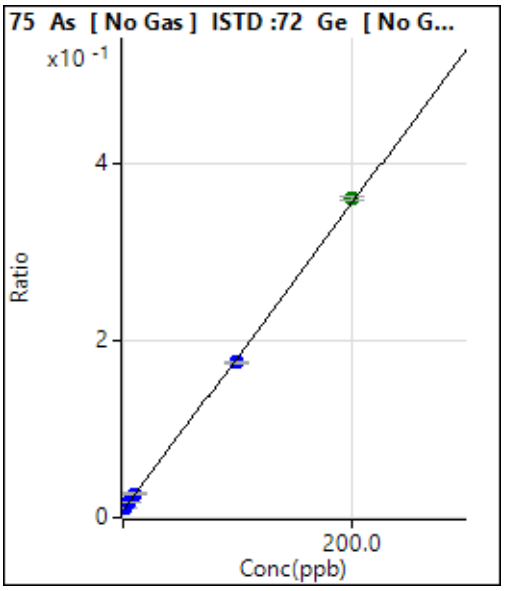


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1546.78	0.0013	P	6.9	
2	☐	2.000	2.350	7238.72	0.0061	P	0.9	17.5
3	☐	5.000	4.954	13299.97	0.0113	P	3.7	-0.9
4	☐	10.000	10.064	25053.27	0.0217	P	1.3	0.6
5	☐	100.000	97.122	224987.90	0.1977	P	1.9	-2.9
6	☐	200.000	201.433	453103.39	0.4086	P	2.6	0.7

y = 0.0020 * x + 0.0013
R = 0.9998
DL = 0.1336 ppb
BEC = 0.6498 ppb

Weight: <None>
Min Conc: <None>

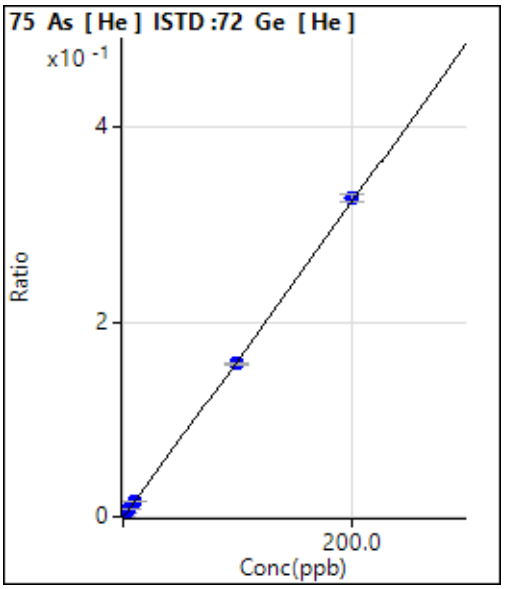
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41420.07	0.0100	P	2.2	
2	☐	2.000	0.174	43111.79	0.0103	P	0.8	-91.3
3	☐	5.000	4.236	71393.00	0.0173	P	2.2	-15.3
4	☐	10.000	9.765	110125.14	0.0268	P	2.7	-2.4
5	☐	100.000	95.313	695363.61	0.1748	P	1.6	-4.7
6	☐	200.000	202.393	1394740.55	0.3600	A	1.6	1.2

y = 0.0017 * x + 0.0100
R = 0.9996
DL = 0.3786 ppb
BEC = 5.754 ppb

Weight: <None>
Min Conc: <None>

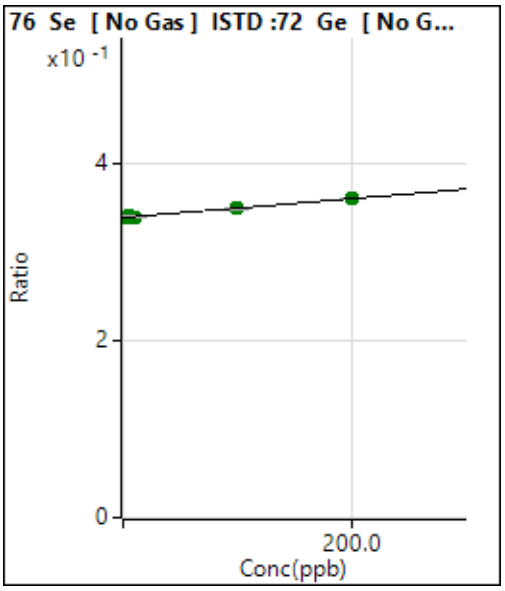


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	356.67	0.0003	P	6.9	
2	☐	2.000	1.841	3928.36	0.0033	P	3.7	-7.9
3	☐	5.000	4.835	9564.50	0.0081	P	4.6	-3.3
4	☐	10.000	9.803	18745.11	0.0162	P	1.3	-2.0
5	☐	100.000	96.787	179057.99	0.1573	P	1.7	-3.2
6	☐	200.000	201.622	363060.04	0.3274	P	2.6	0.8

y = 0.0016 * x + 3.0293E-004
R = 0.9998
DL = 0.03847 ppb
BEC = 0.1867 ppb

Weight: <None>
Min Conc: <None>

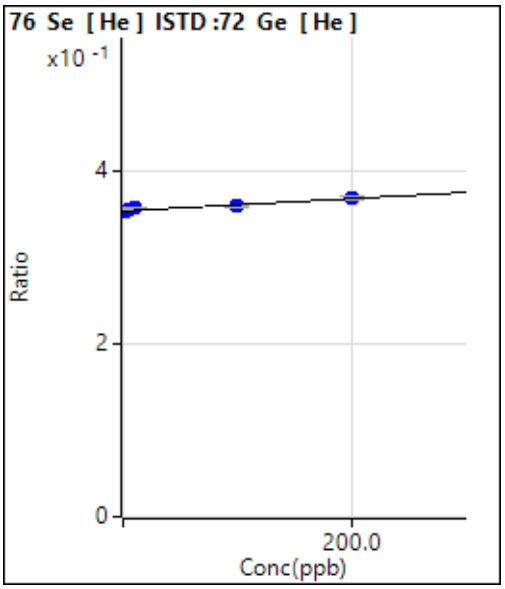
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1411471.07	0.3391	A	0.2	
2	☐	2.000	-6.447	1422952.53	0.3384	A	0.7	-422.4
3	☐	5.000	11.669	1406365.14	0.3404	A	0.6	133.4
4	☐	10.000	6.783	1394506.23	0.3399	A	0.4	-32.2
5	☐	100.000	95.860	1390091.65	0.3495	A	0.5	-4.1
6	☐	200.000	202.148	1398200.03	0.3609	A	0.3	1.1

y = 1.0766E-004 * x + 0.3391
R = 0.9980
DL = 22.78 ppb
BEC = 3150 ppb

Weight: <None>
Min Conc: <None>

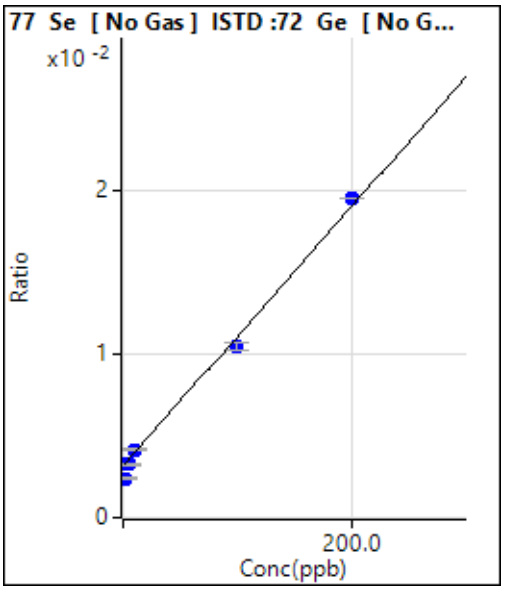


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416216.30	0.3534	P	0.2	
2	☐	2.000	-11.688	420892.72	0.3526	P	1.0	-684.4
3	☐	5.000	21.482	416774.79	0.3550	P	0.9	329.6
4	☐	10.000	49.882	412980.25	0.3571	P	0.7	398.8
5	☐	100.000	78.995	408769.76	0.3592	P	0.4	-21.0
6	☐	200.000	208.233	408732.73	0.3686	P	1.5	4.1

y = 7.2568E-005 * x + 0.3534
R = 0.9636
DL = 35.82 ppb
BEC = 4870 ppb

Weight: <None>
Min Conc: <None>

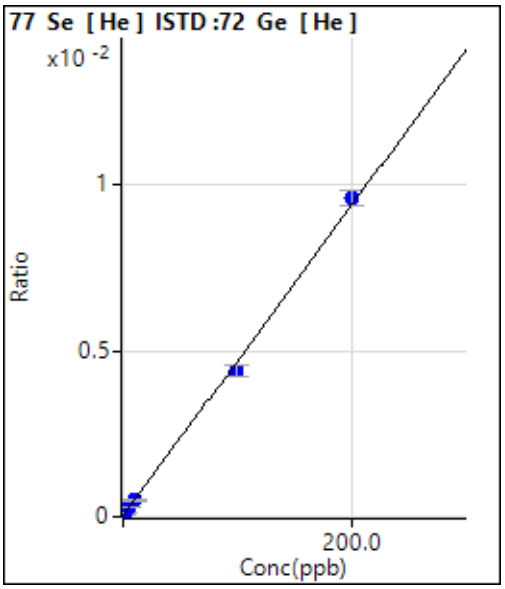
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13703.79	0.0033	P	1.8	
2	☐	2.000	-11.125	10137.27	0.0024	P	3.9	-656.3
3	☐	5.000	-0.623	13400.07	0.0032	P	2.7	-112.5
4	☐	10.000	10.886	17050.96	0.0042	P	2.4	8.9
5	☐	100.000	90.162	41516.84	0.0104	P	4.7	-9.8
6	☐	200.000	205.146	75736.43	0.0195	P	0.3	2.6

y = 7.9240E-005 * x + 0.0033
R = 0.9972
DL = 2.21 ppb
BEC = 41.55 ppb

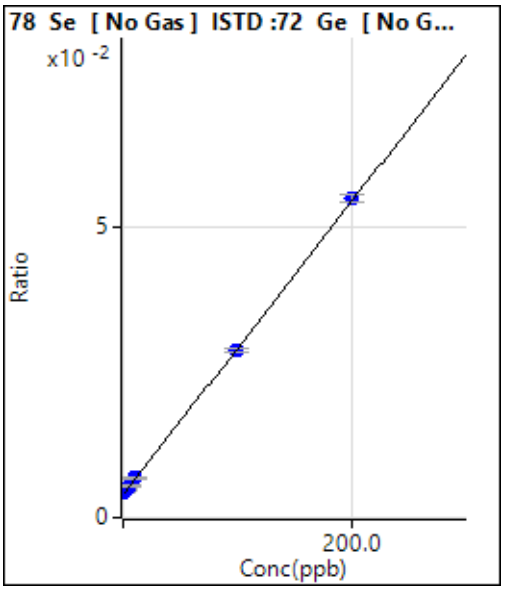
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	6.5	
2	☐	2.000	1.111	156.67	0.0001	P	8.5	-44.4
3	☐	5.000	4.796	356.68	0.0003	P	8.8	-4.1
4	☐	10.000	8.887	573.36	0.0005	P	8.1	-11.1
5	☐	100.000	92.779	5034.34	0.0044	P	8.2	-7.2
6	☐	200.000	203.680	10667.72	0.0096	P	4.4	1.8

y = 4.6838E-005 * x + 7.9270E-005
R = 0.9991
DL = 0.3311 ppb
BEC = 1.692 ppb

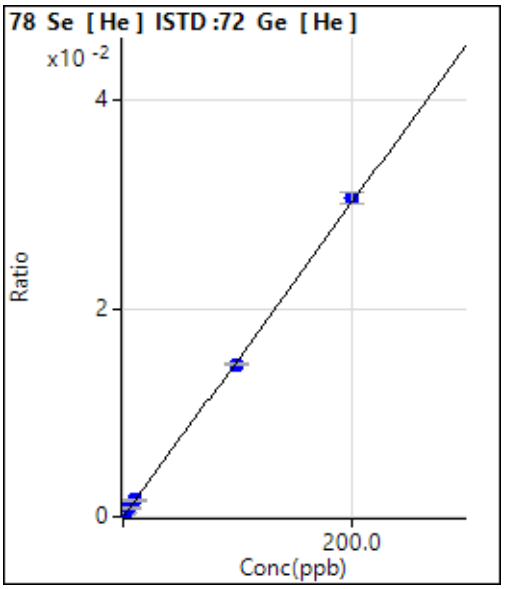
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17611.61	0.0042	P	2.6	
2	☐	2.000	2.103	20014.94	0.0048	P	2.4	5.2
3	☐	5.000	4.648	22311.83	0.0054	P	1.9	-7.0
4	☐	10.000	10.145	27828.68	0.0068	P	1.1	1.5
5	☐	100.000	97.785	114635.87	0.0288	P	2.4	-2.2
6	☐	200.000	201.108	212292.33	0.0548	P	2.0	0.6

y = 2.5143E-004 * x + 0.0042
R = 0.9999
DL = 1.302 ppb
BEC = 16.83 ppb

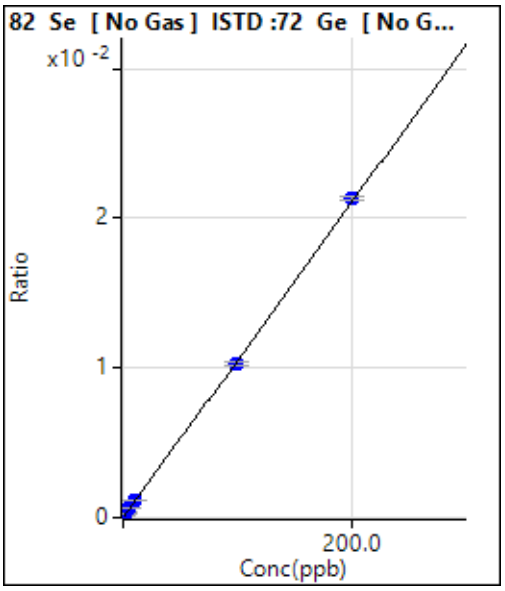
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	158.67	0.0001	P	8.1	
2	☐	2.000	2.023	525.34	0.0004	P	6.2	1.2
3	☐	5.000	4.647	981.37	0.0008	P	4.6	-7.1
4	☐	10.000	9.711	1850.80	0.0016	P	4.8	-2.9
5	☐	100.000	96.045	16650.84	0.0146	P	1.7	-4.0
6	☐	200.000	202.001	33953.46	0.0306	P	3.5	1.0

y = 1.5091E-004 * x + 1.3471E-004
R = 0.9997
DL = 0.216 ppb
BEC = 0.8926 ppb

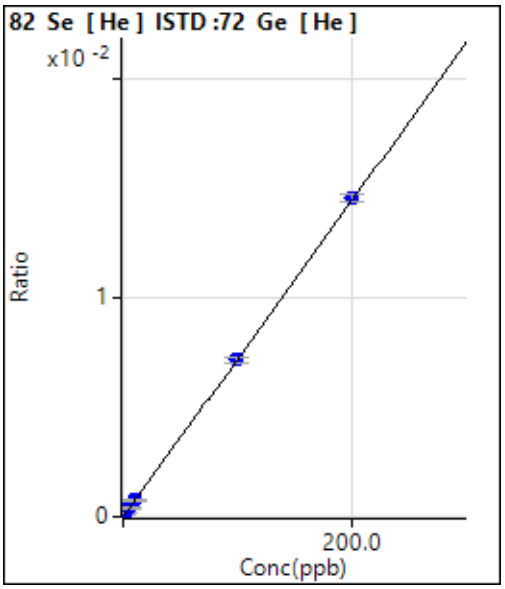
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	25.5	
2	☐	2.000	1.939	1290.09	0.0003	P	19.5	-3.1
3	☐	5.000	4.748	2490.28	0.0006	P	1.2	-5.0
4	☐	10.000	9.887	4694.22	0.0011	P	3.6	-1.1
5	☐	100.000	96.838	40985.51	0.0103	P	1.8	-3.2
6	☐	200.000	201.593	82664.00	0.0213	P	1.8	0.8

y = 1.0534E-004 * x + 1.0258E-004
R = 0.9998
DL = 0.7442 ppb
BEC = 0.9739 ppb

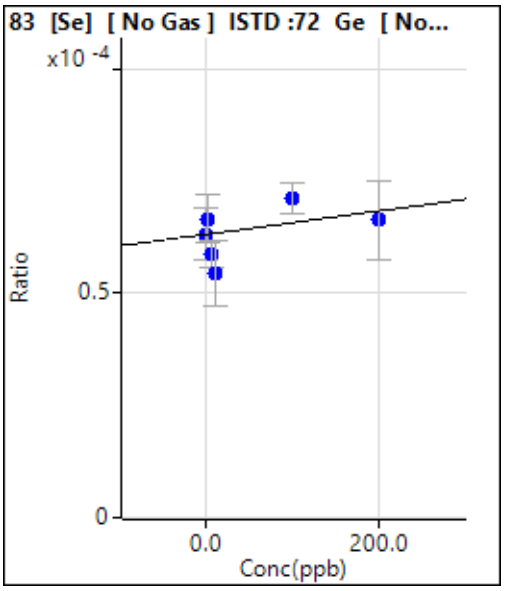
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	22.0	
2	☐	2.000	1.461	206.68	0.0002	P	20.2	-26.9
3	☐	5.000	4.684	476.68	0.0004	P	20.7	-6.3
4	☐	10.000	9.567	876.71	0.0008	P	9.0	-4.3
5	☐	100.000	98.378	8149.25	0.0072	P	3.4	-1.6
6	☐	200.000	200.846	16133.29	0.0145	P	2.0	0.4

y = 7.2094E-005 * x + 6.7964E-005
R = 1.0000
DL = 0.621 ppb
BEC = 0.9427 ppb

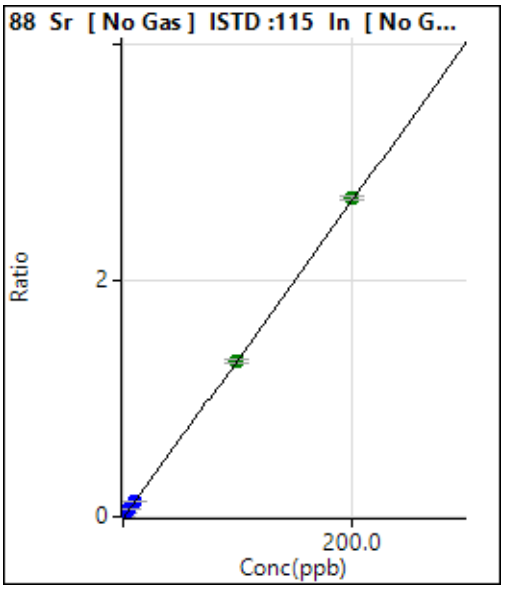
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	18.4	
2	☐	2.000	128.285	280.01	0.0001	P	16.3	6314.2
3	☐	5.000	-167.283	243.34	0.0001	P	10.2	-3445.7
4	☐	10.000	-339.012	223.34	0.0001	P	26.7	-3490.1
5	☐	100.000	305.817	283.34	0.0001	P	10.1	205.8
6	☐	200.000	117.586	256.68	0.0001	P	26.6	-41.2

y = 2.6064E-008 * x + 6.3252E-005
R = 0.5062
DL = 1341 ppb
BEC = 2427 ppb

Weight: <None>
Min Conc: <None>

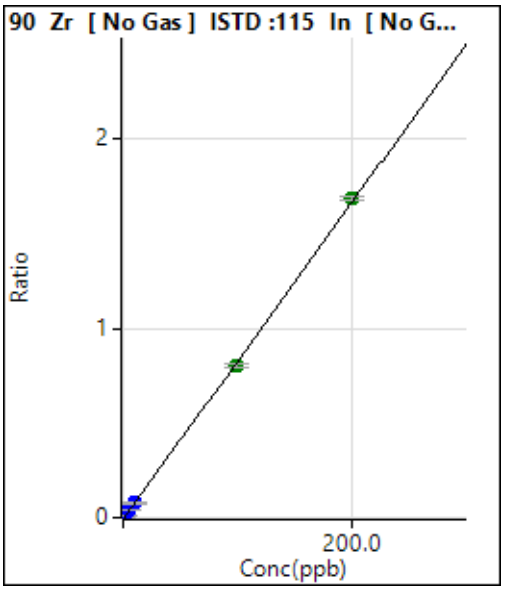


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4904.32	0.0009	P	7.3	
2	☐	2.000	1.864	137527.00	0.0259	P	1.2	-6.8
3	☐	5.000	4.711	337079.14	0.0641	P	1.1	-5.8
4	☐	10.000	9.534	674025.95	0.1287	P	0.6	-4.7
5	☐	100.000	97.841	6609469.07	1.3123	A	2.4	-2.2
6	☐	200.000	201.111	13219901.88	2.6964	A	1.3	0.6

y = 0.0134 * x + 9.2501E-004
R = 0.9999
DL = 0.01507 ppb
BEC = 0.06902 ppb

Weight: <None>
Min Conc: <None>

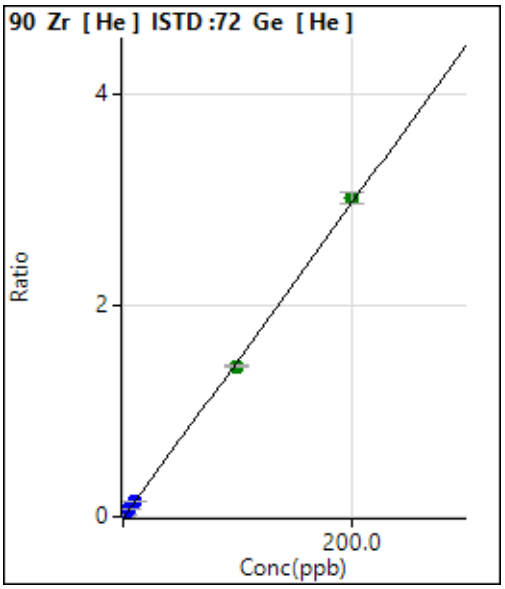
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2100.20	0.0004	P	19.4	
2	☐	2.000	1.596	72866.28	0.0137	P	1.3	-20.2
3	☐	5.000	4.327	192226.04	0.0365	P	1.7	-13.5
4	☐	10.000	9.154	402526.14	0.0769	P	1.8	-8.5
5	☐	100.000	96.419	4058347.96	0.8058	A	2.6	-3.6
6	☐	200.000	201.854	8268343.63	1.6864	A	1.4	0.9

y = 0.0084 * x + 3.9617E-004
R = 0.9998
DL = 0.02754 ppb
BEC = 0.04743 ppb

Weight: <None>
Min Conc: <None>

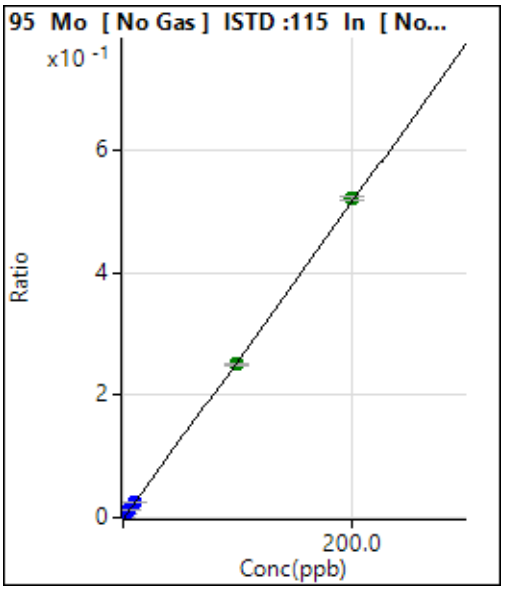


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0017	P	2.1	
2	☐	2.000	1.597	30474.83	0.0255	P	1.3	-20.2
3	☐	5.000	4.306	77360.72	0.0659	P	3.7	-13.9
4	☐	10.000	9.243	161276.68	0.1394	P	2.1	-7.6
5	☐	100.000	95.413	1619902.21	1.4232	A	2.0	-4.6
6	☐	200.000	202.353	3344962.35	3.0164	A	3.1	1.2

y = 0.0149 * x + 0.0017
R = 0.9997
DL = 0.007522 ppb
BEC = 0.1167 ppb

Weight: <None>
Min Conc: <None>

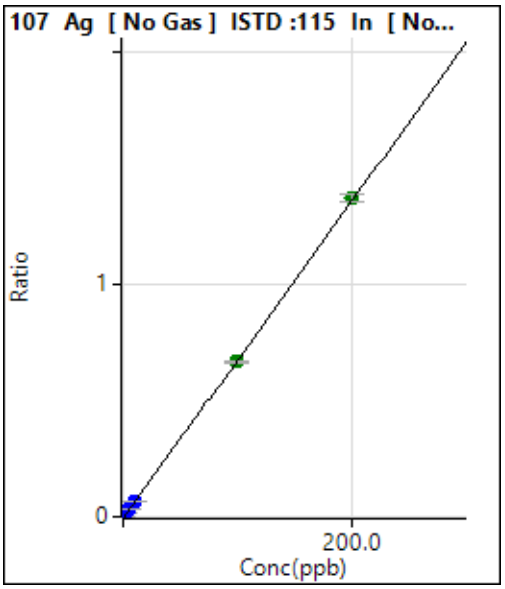
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0001	P	21.2	
2	☐	2.000	1.886	26265.88	0.0049	P	4.8	-5.7
3	☐	5.000	4.791	65532.40	0.0125	P	2.1	-4.2
4	☐	10.000	9.571	129939.16	0.0248	P	2.1	-4.3
5	☐	100.000	96.791	1260475.16	0.2503	A	2.0	-3.2
6	☐	200.000	201.632	2555596.78	0.5213	A	1.5	0.8

y = 0.0026 * x + 7.2253E-005
R = 0.9998
DL = 0.01779 ppb
BEC = 0.02795 ppb

Weight: <None>
Min Conc: <None>

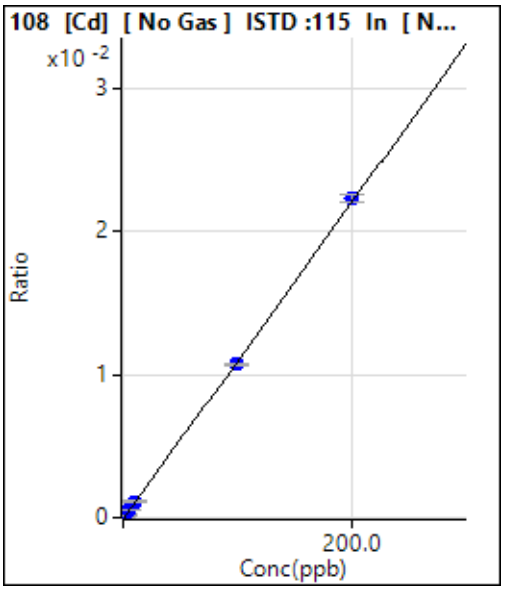


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1473.44	0.0003	P	9.2	
2	☐	2.000	1.978	73196.34	0.0138	P	2.4	-1.1
3	☐	5.000	4.937	178888.02	0.0340	P	1.2	-1.3
4	☐	10.000	9.934	356860.89	0.0681	P	1.9	-0.7
5	☐	100.000	97.700	3362962.35	0.6677	A	1.4	-2.3
6	☐	200.000	201.155	6738256.15	1.3744	A	2.2	0.6

y = 0.0068 * x + 2.7790E-004
R = 0.9999
DL = 0.01118 ppb
BEC = 0.04068 ppb

Weight: <None>
Min Conc: <None>

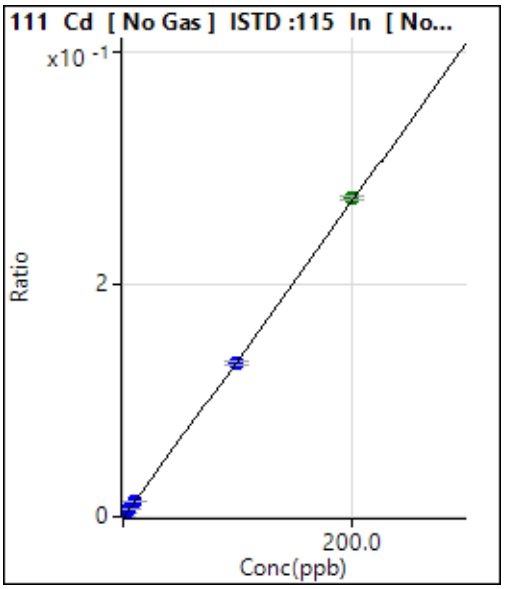
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	99.8	
2	☐	2.000	1.758	1053.40	0.0002	P	16.5	-12.1
3	☐	5.000	4.930	2893.71	0.0006	P	4.1	-1.4
4	☐	10.000	10.251	5968.10	0.0011	P	3.4	2.5
5	☐	100.000	96.634	53948.86	0.0107	P	1.3	-3.4
6	☐	200.000	201.674	109577.53	0.0224	P	1.9	0.8

y = 1.1080E-004 * x + 3.7564E-006
R = 0.9998
DL = 0.1015 ppb
BEC = 0.0339 ppb

Weight: <None>
Min Conc: <None>

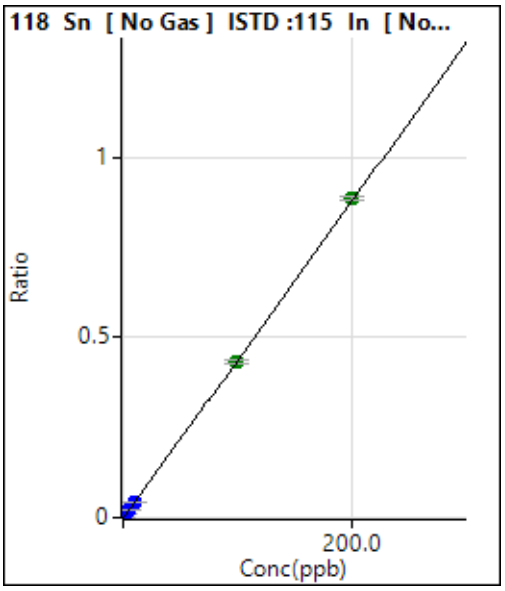


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	161.88	0.0000	P	17.1	
2	☐	2.000	1.958	14305.56	0.0027	P	3.2	-2.1
3	☐	5.000	4.876	35056.73	0.0067	P	2.6	-2.5
4	☐	10.000	9.727	69461.72	0.0133	P	1.0	-2.7
5	☐	100.000	97.128	665670.65	0.1322	P	2.1	-2.9
6	☐	200.000	201.453	1343775.42	0.2741	A	1.7	0.7

y = 0.0014 * x + 3.0559E-005
R = 0.9999
DL = 0.01152 ppb
BEC = 0.02246 ppb

Weight: <None>
Min Conc: <None>

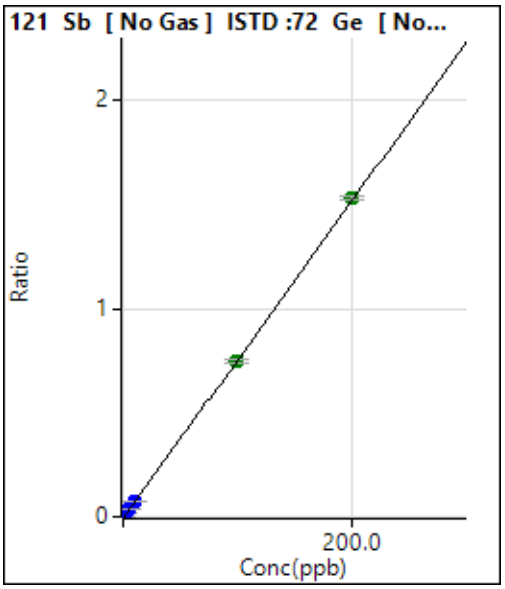
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8672.97	0.0016	P	4.3	
2	☐	2.000	1.777	50235.19	0.0095	P	1.9	-11.1
3	☐	5.000	4.844	120829.17	0.0230	P	2.4	-3.1
4	☐	10.000	9.771	233896.42	0.0447	P	1.8	-2.3
5	☐	100.000	97.909	2179718.82	0.4328	A	2.4	-2.1
6	☐	200.000	201.063	4348892.12	0.8870	A	1.5	0.5

y = 0.0044 * x + 0.0016
R = 0.9999
DL = 0.04822 ppb
BEC = 0.3715 ppb

Weight: <None>
Min Conc: <None>

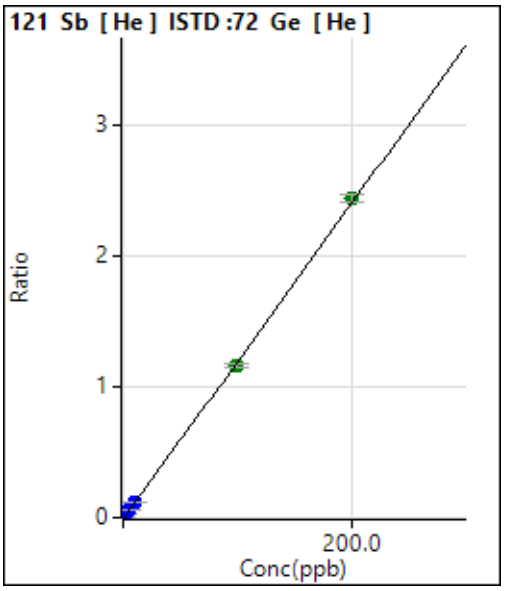


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1300.09	0.0003	P	6.4	
2	☐	2.000	1.927	63069.68	0.0150	P	2.9	-3.6
3	☐	5.000	4.830	153386.18	0.0371	P	1.8	-3.4
4	☐	10.000	9.841	309005.41	0.0753	P	2.5	-1.6
5	☐	100.000	97.922	2970035.48	0.7466	A	2.6	-2.1
6	☐	200.000	201.052	5937645.75	1.5326	A	0.9	0.5

y = 0.0076 * x + 3.1238E-004
R = 0.9999
DL = 0.007811 ppb
BEC = 0.04099 ppb

Weight: <None>
Min Conc: <None>

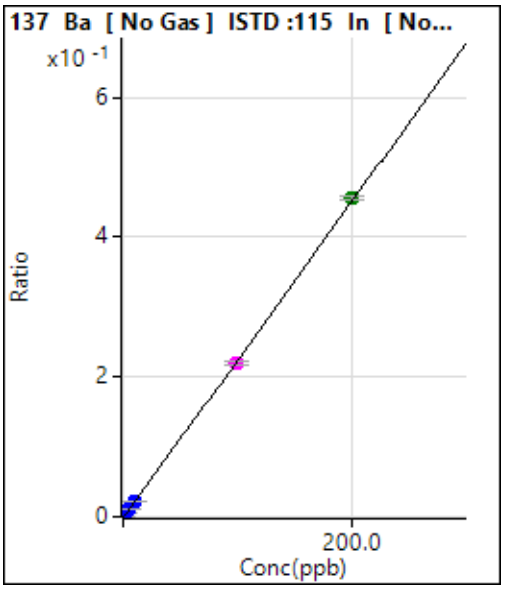
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	500.02	0.0004	P	15.2	
2	☐	2.000	1.854	27265.11	0.0228	P	2.9	-7.3
3	☐	5.000	4.709	67310.56	0.0573	P	1.9	-5.8
4	☐	10.000	9.697	136043.29	0.1176	P	2.3	-3.0
5	☐	100.000	95.928	1320040.99	1.1598	A	1.7	-4.1
6	☐	200.000	202.060	2708541.42	2.4424	A	2.6	1.0

y = 0.0121 * x + 4.2496E-004
R = 0.9997
DL = 0.016 ppb
BEC = 0.03516 ppb

Weight: <None>
Min Conc: <None>

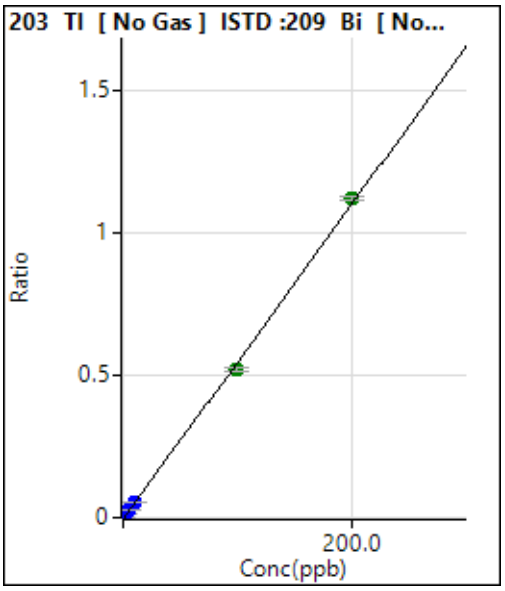


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.15	0.0003	P	10.7	
2	☐	2.000	1.879	24276.29	0.0046	P	2.6	-6.0
3	☐	5.000	4.818	59039.55	0.0112	P	4.2	-3.6
4	☐	10.000	9.605	115501.48	0.0221	P	0.7	-4.0
5	☐	100.000	97.269	1110159.10	0.2204	M	2.9	-2.7
6	☐	200.000	201.391	2235829.65	0.4560	A	1.4	0.7

y = 0.0023 * x + 3.2087E-004
R = 0.9999
DL = 0.04554 ppb
BEC = 0.1418 ppb

Weight: <None>
Min Conc: <None>

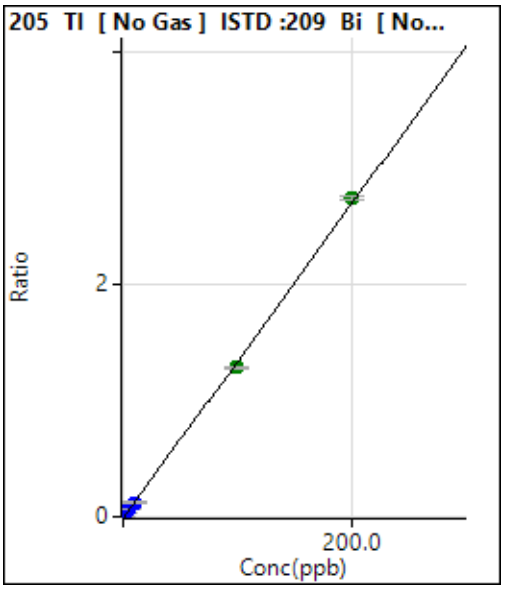
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.14	0.0003	P	7.8	
2	☐	2.000	1.878	55793.72	0.0107	P	2.8	-6.1
3	☐	5.000	4.593	135000.39	0.0257	P	2.0	-8.1
4	☐	10.000	9.304	270992.55	0.0517	P	2.8	-7.0
5	☐	100.000	94.454	2656535.90	0.5223	A	2.8	-5.5
6	☐	200.000	202.819	5571897.42	1.1211	A	0.9	1.4

y = 0.0055 * x + 3.1486E-004
R = 0.9995
DL = 0.01335 ppb
BEC = 0.05697 ppb

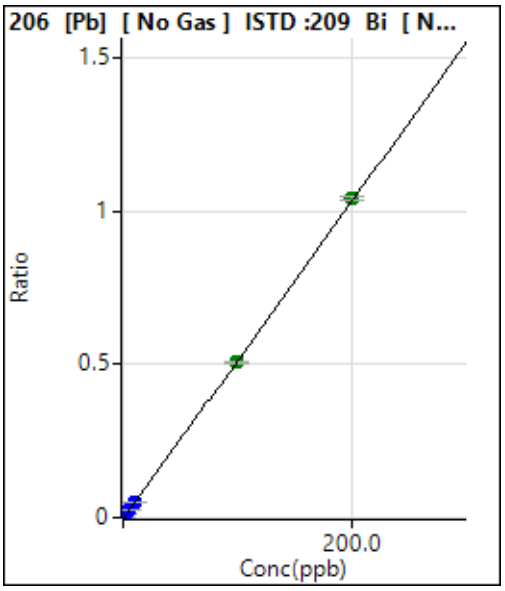
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4244.13	0.0008	P	4.2	
2	☐	2.000	1.804	131364.11	0.0252	P	1.7	-9.8
3	☐	5.000	4.409	317138.36	0.0604	P	2.2	-11.8
4	☐	10.000	9.034	643602.01	0.1229	P	2.6	-9.7
5	☐	100.000	94.683	6510474.90	1.2800	A	1.9	-5.3
6	☐	200.000	202.724	13615678.13	2.7396	A	1.2	1.4

y = 0.0135 * x + 8.0492E-004
R = 0.9995
DL = 0.007506 ppb
BEC = 0.05958 ppb

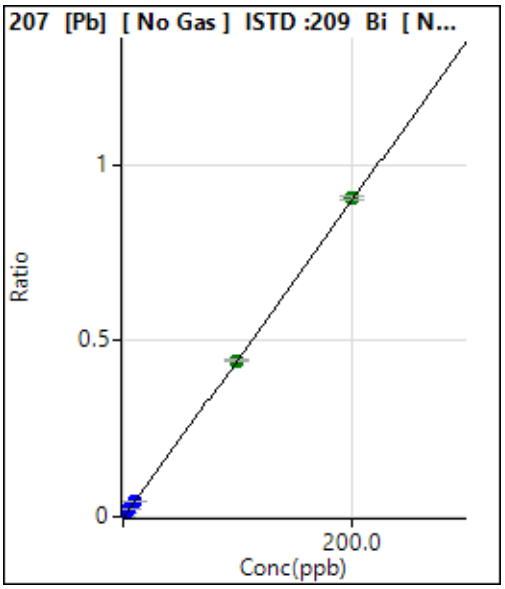
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2093.56	0.0004	P	1.4	
2	☐	2.000	1.997	56105.45	0.0108	P	3.6	-0.1
3	☐	5.000	4.917	136045.56	0.0259	P	1.4	-1.7
4	☐	10.000	9.875	270387.76	0.0516	P	1.2	-1.2
5	☐	100.000	97.799	2581850.59	0.5076	A	1.2	-2.2
6	☐	200.000	201.109	5185454.40	1.0434	A	1.1	0.6

y = 0.0052 * x + 3.9707E-004
R = 0.9999
DL = 0.003131 ppb
BEC = 0.07656 ppb

Weight: <None>
Min Conc: <None>

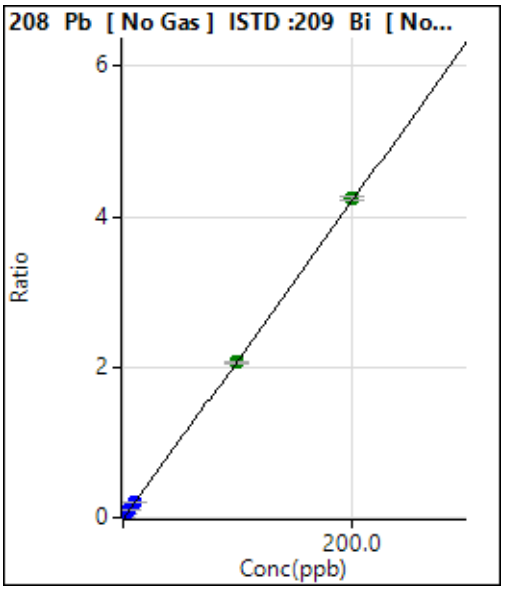


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1683.48	0.0003	P	17.7	
2	☐	2.000	1.953	47653.75	0.0091	P	2.7	-2.3
3	☐	5.000	4.892	117666.31	0.0224	P	1.5	-2.2
4	☐	10.000	9.855	234677.64	0.0448	P	1.0	-1.5
5	☐	100.000	98.236	2256621.22	0.4437	A	1.4	-1.8
6	☐	200.000	200.892	4507385.76	0.9070	A	0.7	0.4

y = 0.0045 * x + 3.1925E-004
R = 0.9999
DL = 0.03765 ppb
BEC = 0.07074 ppb

Weight: <None>
Min Conc: <None>

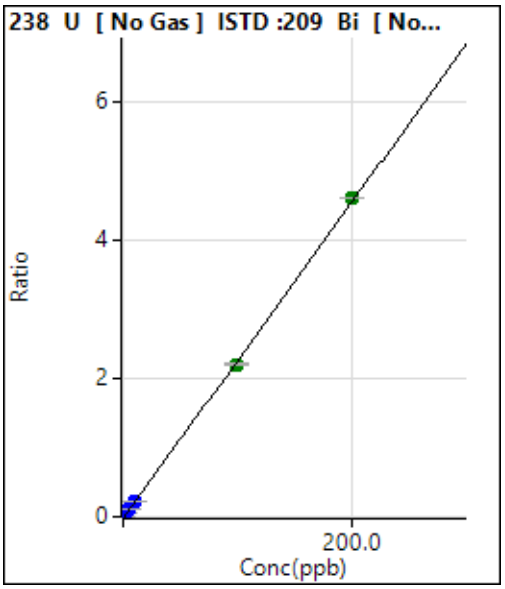
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8201.26	0.0016	P	3.9	
2	☐	2.000	1.928	220534.58	0.0423	P	2.9	-3.6
3	☐	5.000	4.791	539540.36	0.1027	P	1.4	-4.2
4	☐	10.000	9.714	1082670.58	0.2067	P	1.2	-2.9
5	☐	100.000	97.924	10524649.43	2.0692	A	1.2	-2.1
6	☐	200.000	201.058	21106062.91	4.2468	A	1.1	0.5

y = 0.0211 * x + 0.0016
R = 0.9999
DL = 0.008711 ppb
BEC = 0.07367 ppb

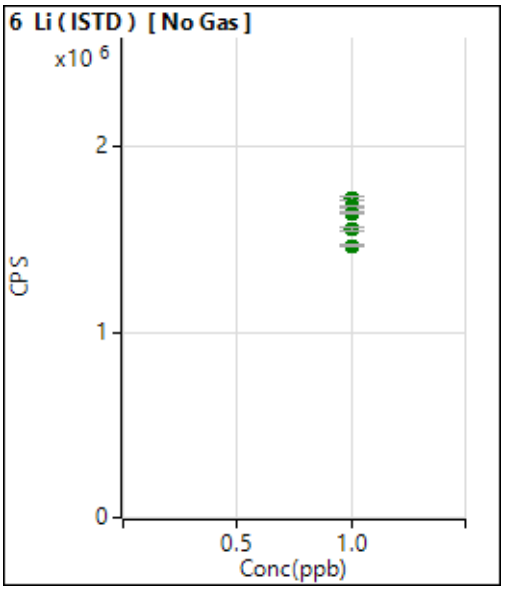
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Min Conc: <None>



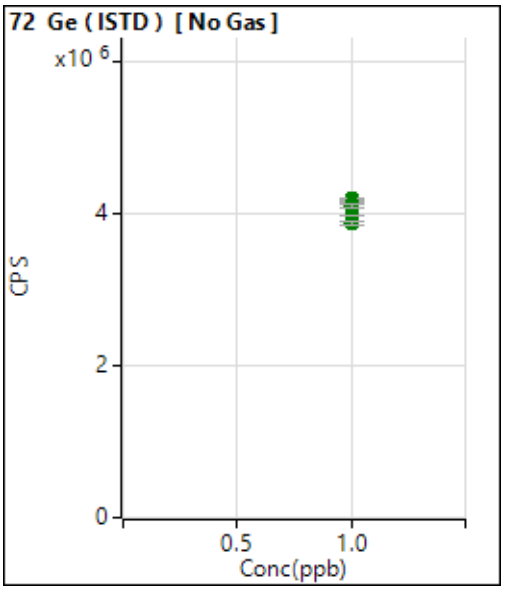
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5417.97	0.0010	P	3.9	
2	☐	2.000	1.829	223446.58	0.0428	P	0.8	-8.5
3	☐	5.000	4.528	548908.05	0.1045	P	1.6	-9.4
4	☐	10.000	9.306	1119428.45	0.2137	P	1.0	-6.9
5	☐	100.000	96.488	11219859.42	2.2059	A	1.4	-3.5
6	☐	200.000	201.804	22922825.49	4.6125	A	0.4	0.9

y = 0.0229 * x + 0.0010
R = 0.9998
DL = 0.005247 ppb
BEC = 0.04497 ppb

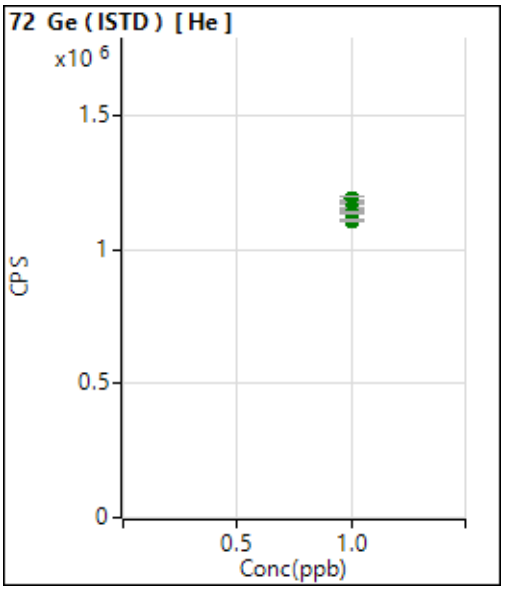
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Min Conc: <None>



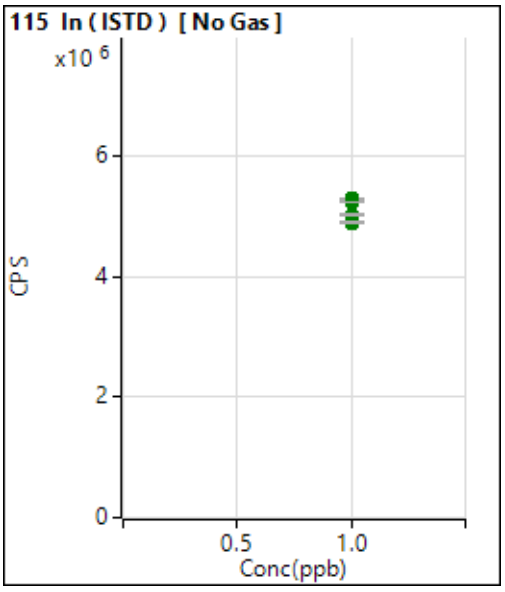
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1709896.43		A	0.1	
2	☐	1.000		1722227.11		A	0.8	
3	☐	1.000		1676112.40		A	0.7	
4	☐	1.000		1644380.63		A	0.5	
5	☐	1.000		1556073.15		A	1.2	
6	☐	1.000		1464767.87		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4162003.17		A	0.4	
2	☐	1.000		4204480.88		A	0.1	
3	☐	1.000		4131653.38		A	0.1	
4	☐	1.000		4103178.79		A	0.7	
5	☐	1.000		3977893.69		A	0.2	
6	☐	1.000		3874294.11		A	0.8	

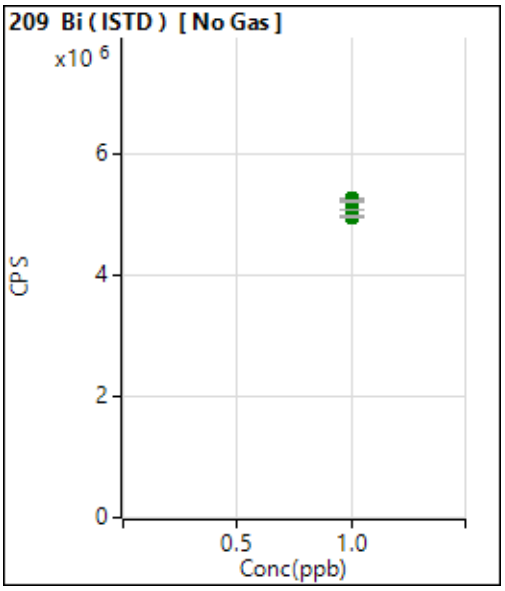


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177618.06		A	1.0	
2	☐	1.000		1193812.90		A	1.4	
3	☐	1.000		1174066.93		A	0.9	
4	☐	1.000		1156621.96		A	0.7	
5	☐	1.000		1138105.48		A	0.7	
6	☐	1.000		1109115.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5301074.33		A	0.7	
2	☐	1.000		5309002.67		A	0.4	
3	☐	1.000		5261197.90		A	0.4	
4	☐	1.000		5237070.79		A	0.0	
5	☐	1.000		5036649.90		A	0.1	
6	☐	1.000		4903058.98		A	0.8	

Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5272521.38		A	0.1	
2	☐	1.000		5216993.47		A	0.7	
3	☐	1.000		5253118.88		A	0.0	
4	☐	1.000		5239227.94		A	0.6	
5	☐	1.000		5086380.97		A	0.1	
6	☐	1.000		4969671.91		A	0.5	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	021LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:06:42-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.887	1.887	0.85	142538	0.00	2	
Be	9	1	No Gas	1.906	1.906	1.63	13448	0.01	2	
V	51	2	He	1.710	1.710	2.23	22824	0.01	2	
Cr	52	2	He	1.687	1.687	0.55	32342	0.01	2	
Fe	56	2	He	194.077	194.077	2.51	2222891	0.01	200	
Se	78	2	He	1.986	1.986	7.88	504	0.39	2	
As	75	2	He	1.915	1.915	4.15	3956	0.05	2	
Ca	44	2	He	194.320	194.320	3.64	14651	1.33	200	
Na	23	2	He	157.703	157.703	1.67	568895	0.03	200	
Mg	24	2	He	191.882	191.882	2.24	216658	0.09	200	
K	39	2	He	193.016	193.016	2.99	370252	0.05	200	
Mn	55	2	He	1.883	1.883	8.32	19117	0.01	2	
Co	59	2	He	1.966	1.966	2.40	37003	0.01	2	
Ni	60	2	He	1.952	1.952	3.91	10508	0.02	2	
Cu	63	2	He	2.007	2.007	1.89	26402	0.01	2	
Zn	66	2	He	2.612	2.612	9.01	7652	0.03	2	NewName Main CR1 Failed
Al	27	2	He	1.254	1.254	18.09	2937	0.04	2	NewName Main CR1 Failed
B	11	1	No Gas	9.336	9.336	4.28	55461	0.02	10	
Al	27	1	No Gas	1.389	1.389	5.55	116930	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	8.836	8.836	5.52	549379	0.00	10	
Ag	107	1	No Gas	2.026	2.026	4.17	73324	0.00	2	
Cd	111	1	No Gas	2.020	2.020	3.35	14430	0.01	2	
Sr	88	1	No Gas	1.886	1.886	3.15	136055	0.00	2	
Mo	95	1	No Gas	1.947	1.947	3.45	26513	0.01	2	
Sn	118	1	No Gas	1.835	1.835	1.63	50463	0.00	2	
Sb	121	1	No Gas	1.995	1.995	3.66	63717	0.00	2	
Ba	137	1	No Gas	1.930	1.930	2.25	24343	0.01	2	
Tl	205	1	No Gas	1.809	1.809	1.21	131529	0.00	2	
Tl	203	1	No Gas	1.866	1.866	3.57	55389	0.00	2	
Pb	208	1	No Gas	1.952	1.952	2.88	222876	0.00	2	
U	238	1	No Gas	1.856	1.856	1.19	226402	0.00	2	
Ca	43	2	He	182.428	182.428	16.34	780	23.39	200	
Sb	121	2	He	1.906	1.906	0.73	27212	0.01	2	
Ti	47	2	He	2.029	2.029	15.75	837	0.24	200	
Cu	63	1	No Gas	1.982	1.982	0.75	58226	0.00	2	
Se	82	1	No Gas	1.747	1.747	4.52	1177	0.15	2	
Zr	90	1	No Gas	1.729	1.729	3.32	77056	0.00	2	
Zr	90	2	He	1.709	1.709	2.84	31551	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1659167	0.24	1709896	97.03	70	120	
Ge	72	2	He	1160167	0.44	1177618	98.52	70	120	
Ge	72	1	No Gas	4105531	0.39	4162003	98.64	70	120	
In	115	1	No Gas	5193231	0.27	5301074	97.97	70	120	
Bi	209	1	No Gas	5210604	0.56	5272521	98.83	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	022LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:09:06-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.775	4.775	1.69	214284	0.00	5	
Be	9	1	No Gas	4.719	4.719	1.64	31994	0.01	5	
V	51	2	He	4.896	4.896	1.35	55846	0.01	5	
Cr	52	2	He	4.941	4.941	0.90	70492	0.01	5	
Fe	56	2	He	502.613	502.613	2.06	5674368	0.01	500	
Se	78	2	He	5.089	5.089	5.84	1045	0.49	5	
As	75	2	He	5.038	5.038	2.24	9808	0.05	5	
Ca	44	2	He	494.073	494.073	2.20	35081	1.41	500	
Na	23	2	He	470.021	470.021	1.19	1129543	0.04	500	
Mg	24	2	He	499.465	499.465	1.18	558104	0.09	500	
K	39	2	He	498.153	498.153	1.21	768130	0.06	500	
Mn	55	2	He	4.975	4.975	4.62	47512	0.01	5	
Co	59	2	He	5.076	5.076	2.37	93687	0.01	5	
Ni	60	2	He	5.212	5.212	4.45	25738	0.02	5	
Cu	63	2	He	5.203	5.203	3.15	66266	0.01	5	
Zn	66	2	He	5.036	5.036	2.39	13303	0.04	5	
Al	27	2	He	5.320	5.320	8.59	5845	0.09	5	
B	11	1	No Gas	23.623	23.623	1.48	108635	0.02	25	
Al	27	1	No Gas	5.231	5.231	3.31	220662	0.00	5	
Si	28	1	No Gas	24.655	24.655	4.61	752069	0.00	25	
Ag	107	1	No Gas	5.047	5.047	2.99	180919	0.00	5	
Cd	111	1	No Gas	4.892	4.892	3.40	34801	0.01	5	
Sr	88	1	No Gas	4.767	4.767	1.92	337352	0.00	5	
Mo	95	1	No Gas	4.856	4.856	2.74	65713	0.01	5	
Sn	118	1	No Gas	4.878	4.878	1.52	120332	0.00	5	
Sb	121	1	No Gas	4.991	4.991	2.36	156027	0.00	5	
Ba	137	1	No Gas	4.932	4.932	2.85	59763	0.01	5	
Tl	205	1	No Gas	4.559	4.559	2.03	326752	0.00	5	
Tl	203	1	No Gas	4.729	4.729	1.24	138499	0.00	5	
Pb	208	1	No Gas	4.928	4.928	1.49	552988	0.00	5	
U	238	1	No Gas	4.644	4.644	1.29	561011	0.00	5	
Ca	43	2	He	535.203	535.203	6.36	2180	24.55	500	
Sb	121	2	He	4.941	4.941	0.57	69593	0.01	5	
Ti	47	2	He	4.755	4.755	5.08	1920	0.25	5	
Cu	63	1	No Gas	5.092	5.092	1.01	136569	0.00	5	
Se	82	1	No Gas	5.062	5.062	6.57	2587	0.20	5	
Zr	90	1	No Gas	4.429	4.429	2.49	194640	0.00	5	
Zr	90	2	He	4.610	4.610	0.99	81489	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1620047	0.35	1709896	94.75	70	120	

Sample Report

Ge	72	2	He	1157270	0.24	1177618	98.27	70	120	
Ge	72	1	No Gas	4068466	0.41	4162003	97.75	70	120	
In	115	1	No Gas	5205280	0.29	5301074	98.19	70	120	
Bi	209	1	No Gas	5236127	0.60	5272521	99.31	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	024_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:13:55-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.041	-111.0	90225	1.0	0.5	
Be	9	1	No Gas	0.001	982.5	363	22.1	0.5	
V	51	2	He	-0.077	-9.3	4258	2.9	2.5	
Cr	52	2	He	-0.044	-92.4	12022	3.6	2.5	
Fe	56	2	He	4.131	3.7	89640	1.5	100	
Se	78	2	He	0.118	61.1	178	5.8	1	
As	75	2	He	0.013	62.5	379	5.4	2.5	
Ca	44	2	He	69.218	3.3	6128	2.0	100	
Na	23	2	He	-31.072	-6.1	229825	0.4	100	
Mg	24	2	He	3.369	11.0	6555	5.0	100	
K	39	2	He	-2.307	-48.0	115081	1.0	100	
Mn	55	2	He	0.167	7.5	3307	4.1	2.5	
Co	59	2	He	0.013	23.5	1267	3.9	2.5	
Ni	60	2	He	0.200	13.1	2307	6.6	2.5	
Cu	63	2	He	0.085	23.1	2347	9.7	1	
Zn	66	2	He	0.887	13.1	3631	8.2	2.5	
Al	27	2	He	2.696	4.4	4001	1.1	5	
B	11	1	No Gas	0.047	376.8	18984	4.1	0.5	
Al	27	1	No Gas	2.790	7.5	154285	3.1	5	
Si	28	1	No Gas	5.246	13.2	498127	2.3	10	
Ag	107	1	No Gas	0.010	45.0	1817	9.7	2.5	
Cd	111	1	No Gas	-0.008	-82.8	99	49.4	1	
Sr	88	1	No Gas	0.176	3.1	17091	2.3	2.5	
Mo	95	1	No Gas	0.008	95.5	487	21.6	2.5	
Sn	118	1	No Gas	-0.027	-61.7	7879	5.3	5	
Sb	121	1	No Gas	0.016	26.4	1783	7.7	2.5	
Ba	137	1	No Gas	0.226	6.3	4324	4.4	2.5	
Tl	205	1	No Gas	0.005	92.0	4568	7.5	1	
Tl	203	1	No Gas	0.007	158.4	1837	16.5	1	
Pb	208	1	No Gas	0.006	26.3	8805	1.9	2.5	
U	238	1	No Gas	0.006	88.6	6068	10.4	2.5	
Ca	43	2	He	74.928	26.0	353	21.6	100	
Sb	121	2	He	0.015	26.1	703	6.4	2.5	
Ti	47	2	He	0.001	6705.0	27	57.3	2.5	
Se	82	1	No Gas	0.130	131.5	473	14.8	1	
Zr	90	1	No Gas	0.042	15.1	3894	6.9	2.5	
Zr	90	2	He	0.045	22.8	2807	5.1	2.5	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1641365	0.49	1709896	95.99	70	120	
Ge	72	2	He	1168101	1.28	1177618	99.19	70	120	
Ge	72	1	No Gas	4074953	0.86	4162003	97.91	70	120	
In	115	1	No Gas	5195093	0.85	5301074	98.00	70	120	
Bi	209	1	No Gas	5218548	0.55	5272521	98.98	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	026ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:18:47-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.392	15.0	94346	2.0	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.030	21.0	520	7.3	0	ICSA Main CR1 Failed
V	51	2	He	0.211	8.8	7094	1.9	0	ICSA Main CR1 Failed
Cr	52	2	He	0.808	5.0	21584	3.1	0	ICSA Main CR1 Failed
Fe	56	2	He	96527.332	2.3	1064156384	1.9	0	
Se	78	2	He	0.024	608.9	157	14.9	0	ICSA Main CR1 Failed
As	75	2	He	0.362	6.2	1013	4.7	0	ICSA Main CR1 Failed
Ca	44	2	He	98037.236	3.6	6586553	3.2	0	
Na	23	2	He	98284.266	2.9	174290804	2.2	0	
Mg	24	2	He	97064.818	2.0	106182292	1.5	0	
K	39	2	He	97964.607	2.3	126081198	1.7	0	
Mn	55	2	He	1.726	2.2	17334	1.1	0	ICSA Main CR1 Failed
Co	59	2	He	0.956	2.1	18172	1.9	0	ICSA Main CR1 Failed
Ni	60	2	He	1.007	4.3	5961	3.3	0	ICSA Main CR1 Failed
Cu	63	2	He	0.690	2.3	9730	1.4	0	ICSA Main CR1 Failed
Zn	66	2	He	3.182	5.2	8820	3.6	0	ICSA Main CR1 Failed
Al	27	2	He	98851.983	2.1	69717736	1.6	0	
B	11	1	No Gas	1.499	4.0	22830	0.9	0	
Al	27	1	No Gas	95337.832	2.8	2489547696	1.5	0	
Si	28	1	No Gas	37.439	3.7	880967	3.0	0	
Ag	107	1	No Gas	0.046	12.3	2797	6.2	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.793	4.4	5271	4.3	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.886	2.8	60810	2.4	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1990.188	1.1	24442532	0.9	0	
Sn	118	1	No Gas	0.124	14.7	10361	3.6	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.076	3.0	3461	1.8	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.556	0.9	7506	0.9	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.008	106.5	4271	12.5	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.012	47.0	1770	7.8	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.863	4.4	92477	3.9	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.017	37.5	6602	10.1	0	ICSA Main CR1 Failed
Ca	43	2	He	94948.389	2.7	371446	2.4	0	
Sb	121	2	He	0.072	2.2	1473	2.1	0	ICSA Main CR1 Failed
Ti	47	2	He	1948.235	3.2	763310	2.9	0	
Se	82	1	No Gas	0.277	79.5	513	17.6	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1523893	0.48	1709896	89.12	70	120	
Ge	72	2	He	1138644	0.94	1177618	96.69	70	120	
Ge	72	1	No Gas	3896285	1.47	4162003	93.62	70	120	
In	115	1	No Gas	4751392	0.36	5301074	89.63	70	120	
Bi	209	1	No Gas	4678059	0.43	5272521	88.73	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	027ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:21:20-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	94.609	1.975	2437566	0.95	100	94.6	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	87.550	2.538	561388	1.58	100	87.5	80	120	
V	51	2	He	102.288	3.408	1050465	2.99	100	102.3	80	120	
Cr	52	2	He	101.063	3.562	1181532	3.12	100	101.1	80	120	
Fe	56	2	He	109062.487	2.602	1203331422	2.21	100	109062.5	80	120	ICSB Main CR1 Failed
Se	78	2	He	102.637	3.126	17803	2.68	100	102.6	80	120	
As	75	2	He	103.256	2.500	191219	2.08	100	103.3	80	120	
Ca	44	2	He	109984.747	1.562	7395528	1.15	100	109984.7	80	120	
Na	23	2	He	110850.587	2.517	196709744	2.10	100	110850.6	80	120	ICSB Main CR1 Failed
Mg	24	2	He	109003.593	2.869	119338295	2.47	100	109003.6	80	120	
K	39	2	He	111247.305	1.749	143282798	1.35	100	111247.3	80	120	ICSB Main CR1 Failed
Mn	55	2	He	100.356	3.314	910853	2.97	100	100.4	80	120	
Co	59	2	He	99.027	2.236	1781195	1.88	100	99.0	80	120	
Ni	60	2	He	95.961	2.911	443502	2.49	100	96.0	80	120	
Cu	63	2	He	96.236	2.654	1185047	2.26	100	96.2	80	120	
Zn	66	2	He	100.191	2.889	232306	2.45	100	100.2	80	120	
Al	27	2	He	101149.667	2.549	71396764	2.15	100	101149.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	478.279	1.542	1760748	0.57	100	478.3	80	120	
Al	27	1	No Gas	94900.610	2.494	2521311962	1.32	100	94900.6	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	537.215	2.177	7285419	0.88	100	537.2	80	120	
Ag	107	1	No Gas	98.922	0.442	3305458	0.22	100	98.9	80	120	
Cd	111	1	No Gas	98.955	1.982	658338	1.58	100	99.0	80	120	
Sr	88	1	No Gas	103.311	1.167	6774612	0.79	100	103.3	80	120	
Mo	95	1	No Gas	2078.382	0.658	26267556	0.37	100	2078.4	80	120	
Sn	118	1	No Gas	101.851	1.709	2200867	1.49	100	101.9	80	120	
Sb	121	1	No Gas	100.539	2.485	3038067	1.34	100	100.5	80	120	
Ba	137	1	No Gas	102.763	2.469	1138460	2.15	100	102.8	80	120	
Tl	205	1	No Gas	101.782	2.256	6532668	1.08	100	101.8	80	120	
Tl	203	1	No Gas	101.236	3.275	2657525	2.06	100	101.2	80	120	
Pb	208	1	No Gas	103.619	1.389	10395996	0.48	100	103.6	80	120	
U	238	1	No Gas	103.084	1.543	11189888	0.80	100	103.1	80	120	
Ca	43	2	He	105193.891	1.222	411866	0.80	100	105193.9	80	120	
Sb	121	2	He	99.772	3.009	1374442	2.60	100	99.8	80	120	
Ti	47	2	He	2071.419	2.344	812246	1.93	100	2071.4	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	96.183	2.773	2383092	1.60	100	96.2	80	120	
Se	82	1	No Gas	102.421	0.847	43169	0.48	100	102.4	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1548509	0.95	1709896	90.56	70	120	
Ge	72	2	He	1139551	0.42	1177618	96.77	70	120	
Ge	72	1	No Gas	3963916	1.16	4162003	95.24	70	120	
In	115	1	No Gas	4889487	0.42	5301074	92.24	70	120	
Bi	209	1	No Gas	4748828	1.32	5272521	90.07	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	116CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:47:08-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	91003	0.00
Be	9	1	No Gas	230	12.29
V	51	2	He	3789	0.09
Cr	52	2	He	12990	0.01
Fe	56	2	He	20476	0.02
Se	78	2	He	153	2.60
As	75	2	He	346	0.32
Ca	44	2	He	920	0.82
Na	23	2	He	321941	0.00
Mg	24	2	He	893	0.52
K	39	2	He	124830	0.00
Mn	55	2	He	833	0.72
Co	59	2	He	803	0.24
Ni	60	2	He	423	1.96
Cu	63	2	He	757	1.57
Zn	66	2	He	943	0.96
Al	27	2	He	1797	0.70
B	11	1	No Gas	11521	0.02
Al	27	1	No Gas	64770	0.00
Si	28	1	No Gas	388377	0.00
Ag	107	1	No Gas	1130	0.54
Cd	111	1	No Gas	2	103340.62
Sr	88	1	No Gas	3444	0.10
Mo	95	1	No Gas	190	7.33
Sn	118	1	No Gas	6482	0.06
Sb	121	1	No Gas	597	0.90
Ba	137	1	No Gas	770	1.27
Tl	205	1	No Gas	2734	0.30
Tl	203	1	No Gas	1063	0.45
Pb	208	1	No Gas	5471	0.06
U	238	1	No Gas	3841	0.09
Ca	43	2	He	43	134.02
Sb	121	2	He	237	11.62
Ti	47	2	He	17	415.69
Cu	63	1	No Gas	7002	0.05

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1676119	0.51
Ge	72	2	He	1163381	0.64
Ge	72	1	No Gas	4078799	0.57
In	115	1	No Gas	5144583	0.25

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	4944446	1.35

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	117CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:49:38-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	11772	0.02
V	51	2	He	23212	0.01
Cr	52	2	He	35322	0.00
Fe	56	2	He	2155481	0.00
Se	78	2	He	458	2.33
As	75	2	He	3747	0.04
Ca	44	2	He	14151	0.05
Na	23	2	He	654924	0.00
Mg	24	2	He	214489	0.00
K	39	2	He	369135	0.00
Mn	55	2	He	17908	0.02
Co	59	2	He	34687	0.01
Ni	60	2	He	9604	0.09
Cu	63	2	He	25267	0.01
Zn	66	2	He	6495	0.08
Al	27	2	He	3801	0.16
B	11	1	No Gas	47375	0.00
Al	27	1	No Gas	140429	0.00
Si	28	1	No Gas	529644	0.00
Ag	107	1	No Gas	69617	0.00
Cd	111	1	No Gas	13752	0.02
Sr	88	1	No Gas	131827	0.00
Mo	95	1	No Gas	25044	0.02
Sn	118	1	No Gas	50781	0.00
Sb	121	1	No Gas	60331	0.00
Ba	137	1	No Gas	24847	0.01
Tl	205	1	No Gas	135292	0.00
Tl	203	1	No Gas	56952	0.00
Pb	208	1	No Gas	202279	0.00
U	238	1	No Gas	199597	0.00
Ca	43	2	He	797	0.64
Sb	121	2	He	25084	0.01
Cu	63	1	No Gas	57507	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1639782	0.41	1676119	97.83	70	120	
Ge	72	2	He	1169710	0.61	1163381	100.54	70	120	
Ge	72	1	No Gas	4098266	0.68	4078799	100.48	70	120	

Calibration Standard Report

In	115	1	No Gas	5137782	0.59	5144583	99.87	70	120	
Bi	209	1	No Gas	4967617	0.97	4944446	100.47	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	118CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:52:08-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	29162	0.00
V	51	2	He	51770	0.01
Cr	52	2	He	68185	0.01
Fe	56	2	He	5252887	0.00
Se	78	2	He	984	0.58
As	75	2	He	9142	0.03
Ca	44	2	He	32919	0.01
Na	23	2	He	1164117	0.00
Mg	24	2	He	529998	0.00
K	39	2	He	736485	0.00
Mn	55	2	He	43311	0.01
Co	59	2	He	87152	0.00
Ni	60	2	He	22676	0.02
Cu	63	2	He	59284	0.00
Zn	66	2	He	12589	0.04
Al	27	2	He	5088	0.10
B	11	1	No Gas	97622	0.00
Al	27	1	No Gas	190062	0.00
Si	28	1	No Gas	713460	0.00
Ag	107	1	No Gas	170821	0.00
Cd	111	1	No Gas	33166	0.01
Sr	88	1	No Gas	320927	0.00
Mo	95	1	No Gas	61895	0.00
Sn	118	1	No Gas	113983	0.00
Sb	121	1	No Gas	147473	0.00
Ba	137	1	No Gas	54450	0.01
Tl	205	1	No Gas	349044	0.00
Tl	203	1	No Gas	146964	0.00
Pb	208	1	No Gas	493261	0.00
U	238	1	No Gas	494594	0.00
Ca	43	2	He	1787	0.37
Sb	121	2	He	61523	0.01
Cu	63	1	No Gas	128742	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1617927	0.35	1676119	96.53	70	120	
Ge	72	2	He	1158722	0.74	1163381	99.60	70	120	
Ge	72	1	No Gas	4067730	0.67	4078799	99.73	70	120	

Calibration Standard Report

In	115	1	No Gas	5148853	1.07	5144583	100.08	70	120	
Bi	209	1	No Gas	4977585	0.11	4944446	100.67	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	119CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:54:39-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	57352	0.01
V	51	2	He	102740	0.00
Cr	52	2	He	126207	0.00
Fe	56	2	He	10743920	0.00
Se	78	2	He	1679	0.09
As	75	2	He	17827	0.02
Ca	44	2	He	65210	0.00
Na	23	2	He	2070850	0.00
Mg	24	2	He	1096589	0.00
K	39	2	He	1377702	0.00
Mn	55	2	He	87315	0.00
Co	59	2	He	177025	0.00
Ni	60	2	He	45806	0.01
Cu	63	2	He	122701	0.00
Zn	66	2	He	23534	0.01
Al	27	2	He	8603	0.05
B	11	1	No Gas	183989	0.00
Al	27	1	No Gas	320636	0.00
Si	28	1	No Gas	991058	0.00
Ag	107	1	No Gas	341807	0.00
Cd	111	1	No Gas	66141	0.00
Sr	88	1	No Gas	641792	0.00
Mo	95	1	No Gas	123765	0.00
Sn	118	1	No Gas	224037	0.00
Sb	121	1	No Gas	292506	0.00
Ba	137	1	No Gas	110132	0.00
Tl	205	1	No Gas	721277	0.00
Tl	203	1	No Gas	303208	0.00
Pb	208	1	No Gas	999973	0.00
U	238	1	No Gas	1008708	0.00
Ca	43	2	He	3877	0.11
Sb	121	2	He	125278	0.00
Cu	63	1	No Gas	247851	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1575065	0.57	1676119	93.97	70	120	
Ge	72	2	He	1138781	1.09	1163381	97.89	70	120	
Ge	72	1	No Gas	4031888	0.21	4078799	98.85	70	120	

Calibration Standard Report

In	115	1	No Gas	5123282	0.75	5144583	99.59	70	120	
Bi	209	1	No Gas	5040043	0.30	4944446	101.93	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	120CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:57:08-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	554806	0.00
V	51	2	He	963216	0.00
Cr	52	2	He	1105734	0.00
Fe	56	2	He	104877322	0.00
Se	78	2	He	15483	0.02
As	75	2	He	172930	0.00
Ca	44	2	He	634861	0.00
Na	23	2	He	17609042	0.00
Mg	24	2	He	10690653	0.00
K	39	2	He	12412694	0.00
Mn	55	2	He	840741	0.00
Co	59	2	He	1710770	0.00
Ni	60	2	He	440247	0.00
Cu	63	2	He	1176878	0.00
Zn	66	2	He	220720	0.00
Al	27	2	He	67572	0.00
B	11	1	No Gas	1682651	0.00
Al	27	1	No Gas	2479820	0.00
Si	28	1	No Gas	6255444	0.00
Ag	107	1	No Gas	3234626	0.00
Cd	111	1	No Gas	637240	0.00
Sr	88	1	No Gas	6355008	0.00
Mo	95	1	No Gas	1205195	0.00
Sn	118	1	No Gas	2107881	0.00
Sb	121	1	No Gas	2790507	0.00
Ba	137	1	No Gas	1062548	0.00
Tl	205	1	No Gas	7269242	0.00
Tl	203	1	No Gas	2957485	0.00
Pb	208	1	No Gas	9889606	0.00
U	238	1	No Gas	10247645	0.00
Ca	43	2	He	37457	0.00
Sb	121	2	He	1206188	0.00
Cu	63	1	No Gas	2291888	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1497358	0.53	1676119	89.33	70	120	
Ge	72	2	He	1121783	0.68	1163381	96.42	70	120	
Ge	72	1	No Gas	3905522	0.37	4078799	95.75	70	120	

Calibration Standard Report

In	115	1	No Gas	4999630	0.60	5144583	97.18	70	120	
Bi	209	1	No Gas	4891837	1.21	4944446	98.94	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	121CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:59:38-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1090310	0.00
V	51	2	He	1920442	0.00
Cr	52	2	He	2185686	0.00
Fe	56	2	He	205654770	0.00
Se	78	2	He	30343	0.01
As	75	2	He	341031	0.00
Ca	44	2	He	1256934	0.00
Na	23	2	He	34254963	0.00
Mg	24	2	He	20805941	0.00
K	39	2	He	24012158	0.00
Mn	55	2	He	1665308	0.00
Co	59	2	He	3347949	0.00
Ni	60	2	He	858609	0.00
Cu	63	2	He	2312817	0.00
Zn	66	2	He	425720	0.00
Al	27	2	He	129111	0.00
B	11	1	No Gas	3294656	0.00
Al	27	1	No Gas	4792184	0.00
Si	28	1	No Gas	11798675	0.00
Ag	107	1	No Gas	6301259	0.00
Cd	111	1	No Gas	1261911	0.00
Sr	88	1	No Gas	12478417	0.00
Mo	95	1	No Gas	2406098	0.00
Sn	118	1	No Gas	4131093	0.00
Sb	121	1	No Gas	5562198	0.00
Ba	137	1	No Gas	2098758	0.00
Tl	205	1	No Gas	14476419	0.00
Tl	203	1	No Gas	5896563	0.00
Pb	208	1	No Gas	19833060	0.00
U	238	1	No Gas	20877187	0.00
Ca	43	2	He	73611	0.00
Sb	121	2	He	2432431	0.00
Cu	63	1	No Gas	4471531	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1429491	0.91	1676119	85.29	70	120	
Ge	72	2	He	1098050	0.73	1163381	94.38	70	120	
Ge	72	1	No Gas	3855346	0.92	4078799	94.52	70	120	

Calibration Standard Report

In	115	1	No Gas	4853657	0.21	5144583	94.35	70	120	
Bi	209	1	No Gas	4884541	0.75	4944446	98.79	70	120	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	125LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:11:04-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.017	2.017	2.12	127494	0.00	2	
Be	9	1	No Gas	2.004	2.004	2.19	11533	0.02	2	
V	51	2	He	1.927	1.927	0.83	22459	0.01	2	
Cr	52	2	He	1.900	1.900	1.50	33574	0.01	2	
Fe	56	2	He	200.958	200.958	1.23	2131452	0.01	200	
Se	78	2	He	2.188	2.188	2.87	485	0.45	2	
As	75	2	He	2.003	2.003	1.68	3816	0.05	2	
Ca	44	2	He	201.333	201.333	2.68	13784	1.46	200	
Na	23	2	He	138.740	138.740	1.43	551348	0.03	200	NewName Main CR1 Failed
Mg	24	2	He	197.791	197.791	1.47	211467	0.09	200	
K	39	2	He	194.890	194.890	1.62	358851	0.05	200	
Mn	55	2	He	1.977	1.977	3.10	17588	0.01	2	
Co	59	2	He	2.000	2.000	1.59	35005	0.01	2	
Ni	60	2	He	2.113	2.113	2.54	9684	0.02	2	
Cu	63	2	He	2.033	2.033	2.65	24743	0.01	2	
Zn	66	2	He	2.507	2.507	1.29	6368	0.04	2	
Al	27	2	He	2.806	2.806	11.29	3567	0.08	2	NewName Main CR1 Failed
B	11	1	No Gas	12.495	12.495	2.25	53077	0.02	10	
Al	27	1	No Gas	2.932	2.932	4.41	134448	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	11.760	11.760	11.65	516388	0.00	10	
Ag	107	1	No Gas	2.018	2.018	1.88	67708	0.00	2	
Cd	111	1	No Gas	2.026	2.026	2.35	13349	0.02	2	
Sr	88	1	No Gas	1.947	1.947	1.36	130401	0.00	2	
Mo	95	1	No Gas	1.910	1.910	2.16	24129	0.01	2	
Sn	118	1	No Gas	2.093	2.093	2.53	51554	0.00	2	
Sb	121	1	No Gas	2.112	2.112	2.68	60886	0.00	2	
Ba	137	1	No Gas	2.223	2.223	2.57	25114	0.01	2	
Tl	205	1	No Gas	1.801	1.801	1.43	139174	0.00	2	
Tl	203	1	No Gas	1.858	1.858	0.94	58375	0.00	2	
Pb	208	1	No Gas	1.969	1.969	2.01	209612	0.00	2	
U	238	1	No Gas	1.878	1.878	1.25	208088	0.00	2	
Ca	43	2	He	193.860	193.860	11.45	770	25.18	200	
Sb	121	2	He	2.094	2.094	3.93	26113	0.01	2	
Ti	47	2	He	1.957	1.957	7.48	743	0.26	200	
Cu	63	1	No Gas	2.029	2.029	1.78	53501	0.00	2	
Se	82	1	No Gas	1.939	1.939	14.73	1177	0.16	2	
Zr	90	1	No Gas	1.648	1.648	2.26	68476	0.00	2	
Zr	90	2	He	1.691	1.691	0.11	28761	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1526050	0.49	1676119	91.05	70	120	
Ge	72	2	He	1122637	0.21	1163381	96.50	70	120	
Ge	72	1	No Gas	3966371	0.78	4078799	97.24	70	120	
In	115	1	No Gas	5087287	0.59	5144583	98.89	70	120	
Bi	209	1	No Gas	5106980	1.07	4944446	103.29	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	126LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:13:29-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	5.062	5.062	1.64	192457	0.00	5	
Be	9	1	No Gas	4.944	4.944	0.69	27796	0.02	5	
V	51	2	He	4.907	4.907	3.53	51910	0.01	5	
Cr	52	2	He	4.935	4.935	3.05	67685	0.01	5	
Fe	56	2	He	500.046	500.046	3.76	5311641	0.01	500	
Se	78	2	He	4.967	4.967	2.99	921	0.54	5	
As	75	2	He	4.972	4.972	1.83	9044	0.05	5	
Ca	44	2	He	501.470	501.470	2.79	33247	1.51	500	
Na	23	2	He	434.491	434.491	4.79	1071934	0.04	500	
Mg	24	2	He	493.228	493.228	3.82	529770	0.09	500	
K	39	2	He	489.295	489.295	3.79	724104	0.07	500	
Mn	55	2	He	4.935	4.935	3.90	42991	0.01	5	
Co	59	2	He	4.977	4.977	3.78	86554	0.01	5	
Ni	60	2	He	5.115	5.115	3.49	23030	0.02	5	
Cu	63	2	He	5.065	5.065	2.15	60985	0.01	5	
Zn	66	2	He	5.362	5.362	5.60	12676	0.04	5	
Al	27	2	He	5.152	5.152	11.41	5134	0.10	5	
B	11	1	No Gas	26.480	26.480	1.48	99487	0.03	25	
Al	27	1	No Gas	4.894	4.894	1.60	181312	0.00	5	
Si	28	1	No Gas	26.094	26.094	1.49	681860	0.00	25	
Ag	107	1	No Gas	5.113	5.113	2.46	168860	0.00	5	
Cd	111	1	No Gas	5.018	5.018	0.96	32871	0.02	5	
Sr	88	1	No Gas	4.809	4.809	1.52	315266	0.00	5	
Mo	95	1	No Gas	4.922	4.922	2.15	61557	0.01	5	
Sn	118	1	No Gas	5.084	5.084	1.53	115422	0.00	5	
Sb	121	1	No Gas	5.252	5.252	0.31	149728	0.00	5	
Ba	137	1	No Gas	4.988	4.988	1.46	55113	0.01	5	
Tl	205	1	No Gas	4.756	4.756	0.69	361715	0.00	5	
Tl	203	1	No Gas	4.922	4.922	0.94	152362	0.00	5	
Pb	208	1	No Gas	4.960	4.960	0.99	517621	0.00	5	
U	238	1	No Gas	4.717	4.717	1.28	514916	0.00	5	
Ca	43	2	He	467.477	467.477	8.35	1810	25.83	500	
Sb	121	2	He	5.061	5.061	3.36	63224	0.01	5	
Ti	47	2	He	4.584	4.584	15.47	1730	0.26	5	
Cu	63	1	No Gas	5.127	5.127	0.38	124150	0.00	5	
Se	82	1	No Gas	5.178	5.178	12.53	2414	0.21	5	
Zr	90	1	No Gas	4.388	4.388	1.44	179140	0.00	5	
Zr	90	2	He	4.428	4.428	4.42	73017	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1507153	0.32	1676119	89.92	70	120	

Sample Report

Ge	72	2	He	1131031	1.52	1163381	97.22	70	120	
Ge	72	1	No Gas	3944895	0.51	4078799	96.72	70	120	
In	115	1	No Gas	5059192	0.84	5144583	98.34	70	120	
Bi	209	1	No Gas	5090535	0.59	4944446	102.95	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	127_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:15:52-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.039	106.9	84314	1.4	0.5	
Be	9	1	No Gas	0.005	58.7	242	7.3	0.5	
V	51	2	He	-0.020	-35.4	3479	1.9	2.5	
Cr	52	2	He	-0.002	-2396.6	12583	5.2	2.5	
Fe	56	2	He	2.989	3.1	51483	2.0	100	
Se	78	2	He	-0.027	-597.7	145	17.5	1	
As	75	2	He	-0.012	-141.5	314	9.6	2.5	
Ca	44	2	He	42.639	7.5	3641	5.6	100	
Na	23	2	He	-56.344	-2.0	214242	1.0	100	
Mg	24	2	He	1.985	8.5	2994	5.9	100	
K	39	2	He	-3.774	-40.0	116543	1.7	100	
Mn	55	2	He	0.146	12.2	2057	7.2	2.5	
Co	59	2	He	0.005	130.1	860	12.3	2.5	
Ni	60	2	He	0.130	10.8	983	6.1	2.5	
Cu	63	2	He	0.066	4.2	1520	2.4	1	
Zn	66	2	He	0.942	7.3	2980	5.2	2.5	
Al	27	2	He	2.058	9.3	3097	4.2	5	
B	11	1	No Gas	1.967	5.1	17314	1.8	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	2.118	5.9	113930	2.5	5	
Si	28	1	No Gas	4.725	6.6	430864	1.0	10	
Ag	107	1	No Gas	-0.003	-164.7	1013	16.5	2.5	
Cd	111	1	No Gas	-0.001	-212.4	-6	-286.3	1	
Sr	88	1	No Gas	0.100	11.6	9904	7.4	2.5	
Mo	95	1	No Gas	0.012	6.0	340	2.9	2.5	
Sn	118	1	No Gas	0.041	50.9	7272	6.3	5	
Sb	121	1	No Gas	0.033	7.3	1510	4.3	2.5	
Ba	137	1	No Gas	0.221	14.3	3174	11.1	2.5	
Tl	205	1	No Gas	0.002	178.1	2990	10.2	1	
Tl	203	1	No Gas	0.006	65.1	1270	8.9	1	
Pb	208	1	No Gas	0.006	50.5	6271	4.7	2.5	
U	238	1	No Gas	0.003	75.2	4261	5.6	2.5	
Ca	43	2	He	30.325	13.1	157	9.8	100	
Sb	121	2	He	0.031	17.4	617	10.8	2.5	
Ti	47	2	He	-0.008	-198.8	13	43.3	2.5	
Se	82	1	No Gas	0.055	104.9	447	5.2	1	
Zr	90	1	No Gas	0.086	10.3	4784	7.6	2.5	
Zr	90	2	He	0.070	32.5	2864	12.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1536705	0.30	1676119	91.68	70	120	
Ge	72	2	He	1129419	0.19	1163381	97.08	70	120	
Ge	72	1	No Gas	3942786	0.19	4078799	96.67	70	120	
In	115	1	No Gas	5077277	0.28	5144583	98.69	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	5083205	0.55	4944446	102.81	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	128_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:18:16-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	99.498	2.460	2177117	2.37	100	99.5	90	110	
Be	9	1	No Gas	99.663	2.658	536902	2.66	100	99.7	90	110	
V	51	2	He	99.833	1.632	974654	1.60	100	99.8	90	110	
Cr	52	2	He	100.212	2.031	1118697	1.80	100	100.2	90	110	
Fe	56	2	He	10077.376	0.687	105560958	1.15	10000	100.8	90	110	
Se	78	2	He	101.341	2.780	15721	3.16	100	101.3	90	110	
As	75	2	He	100.233	1.379	174028	1.62	100	100.2	90	110	
Ca	44	2	He	9861.725	1.168	630454	1.62	10000	98.6	90	110	
Na	23	2	He	10020.113	0.647	17633239	1.51	10000	100.2	90	110	
Mg	24	2	He	10086.049	0.891	10704612	1.23	10000	100.9	90	110	
K	39	2	He	10033.475	1.427	12352314	1.74	10000	100.3	90	110	
Mn	55	2	He	99.976	1.300	846637	2.27	100	100.0	90	110	
Co	59	2	He	100.957	1.037	1722475	0.87	100	101.0	90	110	
Ni	60	2	He	101.174	1.239	443088	1.28	100	101.2	90	110	
Cu	63	2	He	100.887	1.441	1188162	1.13	100	100.9	90	110	
Zn	66	2	He	102.229	2.548	222732	1.77	100	102.2	90	110	
Al	27	2	He	101.700	2.062	67910	2.45	100	101.7	90	110	
B	11	1	No Gas	503.925	1.365	1646673	1.36	500	100.8	90	110	
Al	27	1	No Gas	98.015	2.661	2424660	1.98	100	98.0	90	110	
Si	28	1	No Gas	493.126	2.811	6125285	2.04	500	98.6	90	110	
Ag	107	1	No Gas	99.246	1.546	3192384	1.23	100	99.2	90	110	
Cd	111	1	No Gas	98.208	2.120	630472	2.15	100	98.2	90	110	
Sr	88	1	No Gas	98.939	1.831	6291956	1.36	100	98.9	90	110	
Mo	95	1	No Gas	98.045	1.291	1198185	0.93	100	98.0	90	110	
Sn	118	1	No Gas	99.381	1.674	2095373	1.59	100	99.4	90	110	
Sb	121	1	No Gas	98.636	2.147	2784794	1.55	100	98.6	90	110	
Ba	137	1	No Gas	98.472	2.089	1052154	1.70	100	98.5	90	110	
Tl	205	1	No Gas	98.785	2.262	7343951	2.57	100	98.8	90	110	
Tl	203	1	No Gas	98.566	1.754	2984190	2.21	100	98.6	90	110	
Pb	208	1	No Gas	98.360	2.202	10005159	2.66	100	98.4	90	110	
U	238	1	No Gas	98.346	2.280	10495651	2.72	100	98.3	90	110	
Ca	43	2	He	9929.435	2.559	37220	1.76	10000	99.3	90	110	
Sb	121	2	He	99.177	1.101	1221978	1.44	100	99.2	90	110	
Ti	47	2	He	101.082	1.683	37454	0.92	100	101.1	90	110	
Cu	63	1	No Gas	99.696	2.380	2275133	1.78	100	99.7	90	110	
Se	82	1	No Gas	100.663	2.338	38846	1.71	100	100.7	90	110	
Zr	90	1	No Gas	97.330	1.765	3867343	1.29	100	97.3	90	110	
Zr	90	2	He	97.795	0.591	1559828	1.35	100	97.8	90	1100	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1454301	0.00	1676119	86.77	70	120	
Ge	72	2	He	1118961	1.46	1163381	96.18	70	120	
Ge	72	1	No Gas	3921161	0.61	4078799	96.14	70	120	
In	115	1	No Gas	4957788	0.53	5144583	96.37	70	120	
Bi	209	1	No Gas	5013513	0.91	4944446	101.40	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	130ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:29:40-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.358	1.6	82287	0.3	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.026	19.9	325	8.6	0	ICSA Main CR1 Failed
V	51	2	He	0.267	9.7	5997	3.6	0	ICSA Main CR1 Failed
Cr	52	2	He	0.806	4.0	20562	1.3	0	ICSA Main CR1 Failed
Fe	56	2	He	98348.270	1.3	990302145	1.5	0	
Se	78	2	He	0.151	168.4	164	22.6	0	ICSA Main CR1 Failed
As	75	2	He	0.371	6.7	938	4.8	0	ICSA Main CR1 Failed
Ca	44	2	He	99406.286	1.8	6102115	2.1	0	
Na	23	2	He	99974.006	1.5	166468284	1.7	0	
Mg	24	2	He	98846.466	1.9	100855442	2.1	0	
K	39	2	He	101153.495	1.3	118678692	1.5	0	
Mn	55	2	He	1.810	2.9	15489	2.7	0	ICSA Main CR1 Failed
Co	59	2	He	1.010	1.2	17298	1.2	0	ICSA Main CR1 Failed
Ni	60	2	He	0.998	2.6	4591	1.9	0	ICSA Main CR1 Failed
Cu	63	2	He	0.708	3.9	8710	3.1	0	ICSA Main CR1 Failed
Zn	66	2	He	2.944	1.6	7015	1.3	0	ICSA Main CR1 Failed
Al	27	2	He	103953.730	1.9	65038362	2.1	0	
B	11	1	No Gas	3.288	9.6	19667	4.8	0	
Al	27	1	No Gas	98464.957	2.8	2217983434	1.9	0	
Si	28	1	No Gas	37.470	10.5	757742	6.5	0	
Ag	107	1	No Gas	0.025	22.7	1760	11.1	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.735	19.8	4351	18.6	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.887	3.4	55119	1.8	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2006.802	2.1	22649670	0.9	0	
Sn	118	1	No Gas	0.218	10.3	10001	4.2	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.164	10.5	4851	9.1	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.439	6.4	5014	4.3	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.006	40.7	2890	5.9	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.010	33.6	1243	7.2	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.874	2.6	85471	2.4	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.008	23.1	4271	3.5	0	ICSA Main CR1 Failed
Ca	43	2	He	95843.592	0.9	345112	1.2	0	
Sb	121	2	He	0.146	4.1	1947	3.9	0	ICSA Main CR1 Failed
Ti	47	2	He	2001.390	2.1	712750	2.2	0	
Se	82	1	No Gas	0.416	44.1	543	11.1	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1383481	0.37	1676119	82.54	70	120	
Ge	72	2	He	1075739	0.47	1163381	92.47	70	120	
Ge	72	1	No Gas	3664810	1.04	4078799	89.85	70	120	
In	115	1	No Gas	4580139	1.50	5144583	89.03	70	120	
Bi	209	1	No Gas	4540268	0.63	4944446	91.83	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	131ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:32:11-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	101.638	1.890	2078349	1.54	100	101.6	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	96.891	1.764	488179	1.43	100	96.9	80	120	
V	51	2	He	99.387	2.466	954030	2.28	100	99.4	80	120	
Cr	52	2	He	97.577	2.732	1071343	2.49	100	97.6	80	120	
Fe	56	2	He	104873.313	2.892	1079903451	2.76	100	104873.3	80	120	ICSB Main CR1 Failed
Se	78	2	He	102.827	3.107	15680	2.92	100	102.8	80	120	
As	75	2	He	100.327	2.567	171266	2.50	100	100.3	80	120	
Ca	44	2	He	104746.385	3.200	6575082	2.88	100	104746.4	80	120	ICSB Main CR1 Failed
Na	23	2	He	105760.470	2.387	180072257	2.23	100	105760.5	80	120	ICSB Main CR1 Failed
Mg	24	2	He	104449.605	2.907	108984382	2.78	100	104449.6	80	120	ICSB Main CR1 Failed
K	39	2	He	105904.002	2.042	127062011	2.03	100	105904.0	80	120	ICSB Main CR1 Failed
Mn	55	2	He	97.499	2.820	811730	2.70	100	97.5	80	120	
Co	59	2	He	96.529	2.584	1619375	2.56	100	96.5	80	120	
Ni	60	2	He	94.087	3.196	405161	3.07	100	94.1	80	120	
Cu	63	2	He	93.867	2.544	1087015	2.44	100	93.9	80	120	
Zn	66	2	He	98.536	3.575	211139	3.45	100	98.5	80	120	
Al	27	2	He	98705.068	2.485	63154012	2.53	100	98705.1	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	518.422	1.250	1584088	0.81	100	518.4	80	120	
Al	27	1	No Gas	94212.890	3.179	2179570421	1.84	100	94212.9	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	530.795	2.471	6301319	1.00	100	530.8	80	120	
Ag	107	1	No Gas	98.537	2.057	2962834	0.87	100	98.5	80	120	
Cd	111	1	No Gas	100.069	1.571	600531	0.85	100	100.1	80	120	
Sr	88	1	No Gas	104.207	3.641	6193324	1.82	100	104.2	80	120	
Mo	95	1	No Gas	2067.179	3.113	23607650	1.32	100	2067.2	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	103.654	2.524	2042502	1.01	100	103.7	80	120	
Sb	121	1	No Gas	104.423	1.629	2830034	0.72	100	104.4	80	120	
Ba	137	1	No Gas	102.771	1.706	1026480	0.50	100	102.8	80	120	
Tl	205	1	No Gas	97.338	0.869	6609837	0.63	100	97.3	80	120	
Tl	203	1	No Gas	97.747	1.039	2703125	0.80	100	97.7	80	120	
Pb	208	1	No Gas	103.277	1.340	9595010	1.10	100	103.3	80	120	
U	238	1	No Gas	104.453	1.397	10181597	1.16	100	104.5	80	120	
Ca	43	2	He	100740.236	2.838	370936	2.43	100	100740.2	80	120	ICSB Main CR1 Failed
Sb	121	2	He	101.227	2.794	1226244	2.56	100	101.2	80	120	
Ti	47	2	He	1990.942	3.139	725056	2.84	100	1990.9	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	96.523	2.354	2114542	1.02	100	96.5	80	120	
Se	82	1	No Gas	106.484	4.113	39414	2.76	100	106.5	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1360186	0.44	1676119	81.15	70	120	
Ge	72	2	He	1100153	0.73	1163381	94.57	70	120	
Ge	72	1	No Gas	3764228	1.32	4078799	92.29	70	120	
In	115	1	No Gas	4635240	1.79	5144583	90.10	70	120	
Bi	209	1	No Gas	4579544	0.24	4944446	92.62	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	134_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:42:30-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	100.550	2.241	2061873	2.02	100	100.5	90	110	
Be	9	1	No Gas	100.052	1.868	505319	1.70	100	100.1	90	110	
V	51	2	He	99.859	0.584	965369	1.02	100	99.9	90	110	
Cr	52	2	He	100.180	0.831	1107406	0.92	100	100.2	90	110	
Fe	56	2	He	10111.096	0.279	104874045	0.76	10000	101.1	90	110	
Se	78	2	He	99.498	0.361	15285	0.45	100	99.5	90	110	
As	75	2	He	99.895	1.468	171738	1.55	100	99.9	90	110	
Ca	44	2	He	9724.528	1.427	615575	1.47	10000	97.2	90	110	
Na	23	2	He	9968.711	1.214	17371078	1.09	10000	99.7	90	110	
Mg	24	2	He	10025.231	1.036	10535448	1.03	10000	100.3	90	110	
K	39	2	He	10028.992	1.180	12225331	1.18	10000	100.3	90	110	
Mn	55	2	He	98.574	0.220	826507	0.78	100	98.6	90	110	
Co	59	2	He	101.461	0.395	1714134	0.67	100	101.5	90	110	
Ni	60	2	He	100.915	0.873	437613	0.61	100	100.9	90	110	
Cu	63	2	He	100.976	0.687	1177584	0.86	100	101.0	90	110	
Zn	66	2	He	101.242	0.983	218454	1.14	100	101.2	90	110	
Al	27	2	He	99.661	1.090	65928	1.31	100	99.7	90	110	
B	11	1	No Gas	511.988	1.184	1568355	1.13	500	102.4	90	110	
Al	27	1	No Gas	97.019	2.053	2343938	1.40	100	97.0	90	110	
Si	28	1	No Gas	482.926	1.955	5864650	1.60	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.724	1.652	3194823	1.10	100	99.7	90	110	
Cd	111	1	No Gas	98.143	1.836	627490	1.25	100	98.1	90	110	
Sr	88	1	No Gas	97.968	2.359	6205063	1.79	100	98.0	90	110	
Mo	95	1	No Gas	97.400	1.108	1185561	1.08	100	97.4	90	110	
Sn	118	1	No Gas	99.937	1.474	2098563	1.08	100	99.9	90	110	
Sb	121	1	No Gas	101.141	1.852	2788029	1.33	100	101.1	90	110	
Ba	137	1	No Gas	98.473	1.519	1047941	0.93	100	98.5	90	110	
Tl	205	1	No Gas	99.346	1.126	7459016	1.64	100	99.3	90	110	
Tl	203	1	No Gas	99.800	0.947	3051461	1.30	100	99.8	90	110	
Pb	208	1	No Gas	98.877	1.722	10157533	2.23	100	98.9	90	110	
U	238	1	No Gas	99.247	0.797	10696650	1.34	100	99.2	90	110	
Ca	43	2	He	9911.115	2.777	36789	2.39	10000	99.1	90	110	
Sb	121	2	He	100.093	1.084	1221112	0.81	100	100.1	90	110	
Ti	47	2	He	98.676	1.059	36208	1.34	100	98.7	90	110	
Cu	63	1	No Gas	99.448	1.635	2215962	1.50	100	99.4	90	110	
Se	82	1	No Gas	98.686	3.479	37188	2.69	100	98.7	90	110	
Zr	90	1	No Gas	95.462	2.317	3777884	1.88	100	95.5	90	110	
Zr	90	2	He	98.212	1.248	1550985	0.77	100	98.2	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1363455	0.23	1676119	81.35	70	120	
Ge	72	2	He	1107920	0.57	1163381	95.23	70	120	
Ge	72	1	No Gas	3828711	1.61	4078799	93.87	70	120	
In	115	1	No Gas	4937954	0.74	5144583	95.98	70	120	
Bi	209	1	No Gas	5063257	0.64	4944446	102.40	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	135_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:44:54-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.003	826.4	79564	1.4	0.5	
Be	9	1	No Gas	0.015	64.9	280	19.3	0.5	
V	51	2	He	-0.173	-1.5	1995	2.2	2.5	
Cr	52	2	He	-0.483	-1.4	7275	2.5	2.5	
Fe	56	2	He	1.011	7.0	30752	3.9	100	
Se	78	2	He	0.095	106.1	165	11.0	2	
As	75	2	He	-0.034	-35.4	278	6.2	2.5	
Ca	44	2	He	3.112	10.6	1100	3.3	100	
Na	23	2	He	-81.597	-1.6	171139	0.1	100	
Mg	24	2	He	0.183	15.8	1070	4.3	100	
K	39	2	He	-1.240	-27.3	120354	1.5	100	
Mn	55	2	He	0.160	19.6	2190	13.5	2.5	
Co	59	2	He	0.004	56.4	857	5.8	2.5	
Ni	60	2	He	0.059	25.6	673	9.9	2.5	
Cu	63	2	He	0.041	28.0	1223	10.9	2	
Zn	66	2	He	0.669	8.6	2394	4.4	2.5	
Al	27	2	He	-0.961	-17.7	1120	9.4	5	
B	11	1	No Gas	3.471	10.7	21420	5.9	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.813	-21.0	42736	9.4	5	
Si	28	1	No Gas	0.666	66.0	381886	1.3	10	
Ag	107	1	No Gas	-0.012	-12.8	737	6.1	2.5	
Cd	111	1	No Gas	0.000	-422.4	0	-2056.6	1	
Sr	88	1	No Gas	-0.024	-9.9	1820	9.1	2.5	
Mo	95	1	No Gas	0.097	9.0	1400	7.5	2.5	
Sn	118	1	No Gas	0.014	122.5	6698	5.8	5	
Sb	121	1	No Gas	0.187	14.7	5868	13.2	2.5	
Ba	137	1	No Gas	0.013	31.2	903	5.5	2.5	
Tl	205	1	No Gas	0.012	45.6	3747	11.2	1	
Tl	203	1	No Gas	0.015	47.4	1577	14.5	1	
Pb	208	1	No Gas	0.009	47.4	6624	6.1	2.5	
U	238	1	No Gas	0.007	33.5	4794	5.4	2.5	
Ca	43	2	He	7.235	92.2	70	37.8	100	
Sb	121	2	He	0.139	13.1	1967	13.0	2.5	
Ti	47	2	He	-0.017	-161.8	10	100.0	2.5	
Cu	63	1	No Gas	-0.140	-3.3	3551	2.8	2.5	
Se	82	1	No Gas	-0.001	-10404.7	423	10.7	2	
Zr	90	1	No Gas	0.177	20.2	8490	16.9	2.5	
Zr	90	2	He	0.109	17.5	3521	9.8	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1464404	1.12	1676119	87.37	70	120	
Ge	72	2	He	1135977	1.44	1163381	97.64	70	120	
Ge	72	1	No Gas	3928910	0.27	4078799	96.33	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5079849	0.51	5144583	98.74	70	120	
Bi	209	1	No Gas	5145448	0.60	4944446	104.07	70	120	

Sample Report

Sample Table

Sample Name	MBLK-213798
Data File Name	136SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:47:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	-0.019	-0.019	-153.28	79922	0.00	2000	
Be	9	1	No Gas	0.010	0.010	50.47	257	0.00	2000	
V	51	2	He	-0.184	-0.184	-2.24	1867	-0.01	2000	
Cr	52	2	He	-0.451	-0.451	-2.69	7556	-0.01	2000	
Fe	56	2	He	2.172	2.172	3.42	42683	0.01	200000	
Se	78	2	He	0.119	0.119	121.98	167	0.07	2000	
As	75	2	He	-0.041	-0.041	-52.35	262	-0.02	2000	
Ca	44	2	He	21.240	21.240	10.30	2254	0.94	200000	
Na	23	2	He	-83.461	-83.461	-0.42	166312	-0.05	200000	
Mg	24	2	He	0.992	0.992	2.41	1924	0.05	200000	
K	39	2	He	-0.537	-0.537	-117.71	120086	0.00	200000	
Mn	55	2	He	0.546	0.546	3.38	5448	0.01	2000	
Co	59	2	He	-0.001	-0.001	-1089.80	763	0.00	2000	
Ni	60	2	He	0.232	0.232	10.35	1430	0.02	2000	
Cu	63	2	He	0.132	0.132	5.46	2300	0.01	2000	
Zn	66	2	He	1.940	1.940	4.37	5148	0.04	2000	
Al	27	2	He	0.529	0.529	91.52	2084	0.03	2000	
B	11	1	No Gas	1.364	1.364	13.04	14674	0.01	2000	
Al	27	1	No Gas	0.574	0.574	2.54	76260	0.00	2000	
Si	28	1	No Gas	2.829	2.829	7.45	407269	0.00	2000	
Ag	107	1	No Gas	-0.015	-0.015	-39.91	630	0.00	2000	
Cd	111	1	No Gas	-0.003	-0.003	-352.35	-16	0.02	2000	
Sr	88	1	No Gas	-0.008	-0.008	-55.32	2897	0.00	2000	
Mo	95	1	No Gas	0.041	0.041	7.49	703	0.01	2000	
Sn	118	1	No Gas	0.153	0.153	13.35	9661	0.00	2000	
Sb	121	1	No Gas	0.051	0.051	1.87	2007	0.00	2000	
Ba	137	1	No Gas	0.011	0.011	101.48	873	0.00	2000	
Tl	205	1	No Gas	0.002	0.002	30.09	2990	0.00	2000	
Tl	203	1	No Gas	0.007	0.007	44.76	1337	0.00	2000	
Pb	208	1	No Gas	0.015	0.015	21.67	7261	0.00	2000	
U	238	1	No Gas	0.003	0.003	94.33	4338	0.00	2000	
Ca	43	2	He	27.848	27.848	22.68	147	18.99	200000	
Sb	121	2	He	0.051	0.051	12.63	857	0.01	2000	
Ti	47	2	He	0.011	0.011	673.62	20	0.05	2000	
Cu	63	1	No Gas	-0.057	-0.057	-24.66	5455	0.00	2000	
Ca	44	1	No Gas	19.957	19.957	6.93	44378	0.04	200000	
Zn	66	1	No Gas	1.810	1.810	2.13	14004	0.01	2000	
Se	82	1	No Gas	-0.281	-0.281	-33.32	317	-0.09	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1479387	0.60	1676119	88.26	70	120	
Ge	72	2	He	1125319	0.72	1163381	96.73	70	120	
Ge	72	1	No Gas	3929819	0.86	4078799	96.35	70	120	

Sample Report

In	115	1	No Gas	5056449	0.50	5144583	98.29	70	120	
Bi	209	1	No Gas	5170787	0.28	4944446	104.58	70	120	

Sample Report

Sample Table

Sample Name	LCS-213798
Data File Name	137SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:49:41-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	90.118	90.118	2.03	1865004	0.00	2000	
Be	9	1	No Gas	46.508	46.508	1.77	236176	0.02	2000	
V	51	2	He	46.335	46.335	3.53	449982	0.01	2000	
Cr	52	2	He	47.169	47.169	3.10	528120	0.01	2000	
Fe	56	2	He	4812.026	4812.026	2.91	49937048	0.01	200000	
Se	78	2	He	47.191	47.191	4.21	7328	0.64	2000	
As	75	2	He	47.172	47.172	2.29	81300	0.06	2000	
Ca	44	2	He	4767.361	4767.361	3.41	302308	1.58	200000	
Na	23	2	He	4680.112	4680.112	2.65	8320905	0.06	200000	
Mg	24	2	He	4806.518	4806.518	3.26	5053058	0.10	200000	
K	39	2	He	4746.942	4746.942	3.67	5850647	0.08	200000	
Mn	55	2	He	49.095	49.095	2.96	412167	0.01	2000	
Co	59	2	He	47.616	47.616	2.81	805106	0.01	2000	
Ni	60	2	He	48.371	48.371	1.29	210063	0.02	2000	
Cu	63	2	He	47.830	47.830	3.00	558357	0.01	2000	
Zn	66	2	He	55.087	55.087	2.09	119319	0.05	2000	
Al	27	2	He	105.182	105.182	3.15	69504	0.15	2000	
B	11	1	No Gas	414.139	414.139	1.26	1276784	0.03	2000	
Al	27	1	No Gas	101.489	101.489	2.94	2464515	0.00	2000	
Si	28	1	No Gas	498.782	498.782	2.71	6083123	0.01	2000	
Ag	107	1	No Gas	47.933	47.933	1.96	1543085	0.00	2000	
Cd	111	1	No Gas	46.529	46.529	2.25	298848	0.02	2000	
Sr	88	1	No Gas	82.851	82.851	2.89	5271516	0.00	2000	
Mo	95	1	No Gas	45.928	45.928	2.00	561612	0.01	2000	
Sn	118	1	No Gas	83.809	83.809	1.77	1768773	0.00	2000	
Sb	121	1	No Gas	49.259	49.259	2.75	1366666	0.00	2000	
Ba	137	1	No Gas	46.744	46.744	1.78	500070	0.01	2000	
Tl	205	1	No Gas	40.165	40.165	1.27	3047483	0.00	2000	
Tl	203	1	No Gas	39.873	39.873	1.19	1232024	0.00	2000	
Pb	208	1	No Gas	46.427	46.427	1.24	4820006	0.00	2000	
U	238	1	No Gas	85.576	85.576	1.30	9316118	0.00	2000	
Ca	43	2	He	4848.856	4848.856	6.46	18022	26.91	200000	
Sb	121	2	He	48.713	48.713	2.48	594625	0.01	2000	
Ti	47	2	He	128.774	128.774	3.91	47257	0.27	2000	
Cu	63	1	No Gas	46.788	46.788	2.18	1052631	0.00	2000	
Ca	44	1	No Gas	4744.246	4744.246	2.68	4254771	0.11	200000	
Zn	66	1	No Gas	53.433	53.433	2.47	330574	0.02	2000	
Se	82	1	No Gas	46.296	46.296	2.65	17779	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1370254	0.33	1676119	81.75	70	120	
Ge	72	2	He	1108488	1.10	1163381	95.28	70	120	
Ge	72	1	No Gas	3852818	1.23	4078799	94.46	70	120	

Sample Report

In	115	1	No Gas	4960094	1.07	5144583	96.41	70	120	
Bi	209	1	No Gas	5113667	0.95	4944446	103.42	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	138SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:52:05-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	3.244	16.218	3.03	145979	0.00	2000	
Be	9	1	No Gas	0.013	0.066	36.81	268	0.00	2000	
V	51	2	He	0.145	0.726	20.25	5081	0.00	2000	
Cr	52	2	He	-0.077	-0.384	-51.78	11705	0.00	2000	
Fe	56	2	He	45.694	228.469	0.77	500935	0.01	200000	
Se	78	2	He	0.176	0.880	96.69	175	0.10	2000	
As	75	2	He	0.063	0.317	42.18	444	0.01	2000	
Ca	44	2	He	3250.460	16252.298	0.74	209507	1.55	200000	
Na	23	2	He	36582.220	182911.100	1.06	63896271	0.06	200000	
Mg	24	2	He	1746.611	8733.054	0.98	1864384	0.09	200000	
K	39	2	He	221.549	1107.745	1.27	392285	0.06	200000	
Mn	55	2	He	41.009	205.045	1.47	349566	0.01	2000	
Co	59	2	He	0.186	0.932	10.85	3971	0.00	2000	
Ni	60	2	He	0.925	4.624	2.75	4477	0.02	2000	
Cu	63	2	He	0.220	1.101	5.06	3337	0.01	2000	
Zn	66	2	He	12.935	64.673	3.74	29138	0.04	2000	
Al	27	2	He	5.698	28.491	6.07	5464	0.10	2000	
B	11	1	No Gas	6.060	30.299	4.02	29400	0.02	2000	
Al	27	1	No Gas	5.572	27.861	2.30	196322	0.00	2000	
Si	28	1	No Gas	4737.154	23685.772	2.14	55559688	0.01	2000	>LDR
Ag	107	1	No Gas	-0.005	-0.024	-94.28	953	0.00	2000	
Cd	111	1	No Gas	0.029	0.147	18.70	195	0.02	2000	
Sr	88	1	No Gas	50.030	250.149	1.74	3253428	0.00	2000	
Mo	95	1	No Gas	0.074	0.372	7.74	1117	0.01	2000	
Sn	118	1	No Gas	0.570	2.849	2.54	18627	0.00	2000	
Sb	121	1	No Gas	0.083	0.413	10.87	2900	0.00	2000	
Ba	137	1	No Gas	39.688	198.441	0.57	433846	0.01	2000	
Tl	205	1	No Gas	0.051	0.254	38.05	6692	0.00	2000	
Tl	203	1	No Gas	0.057	0.283	48.76	2850	0.00	2000	
Pb	208	1	No Gas	0.020	0.102	11.44	7784	0.00	2000	
U	238	1	No Gas	0.124	0.619	1.18	17459	0.00	2000	
Ca	43	2	He	3386.574	16932.869	2.60	12789	26.48	200000	
Sb	121	2	He	0.072	0.358	4.11	1117	0.01	2000	
Ti	47	2	He	0.297	1.487	46.79	127	0.23	2000	
Cu	63	1	No Gas	0.293	1.463	2.33	13373	0.00	2000	
Ca	44	1	No Gas	3253.141	16265.704	2.06	2973953	0.11	200000	
Zn	66	1	No Gas	12.399	61.995	1.07	80019	0.02	2000	
Se	82	1	No Gas	-0.225	-1.126	-74.55	337	-0.07	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1440651	0.26	1676119	85.95	70	120	
Ge	72	2	He	1124946	1.43	1163381	96.70	70	120	
Ge	72	1	No Gas	3916111	0.42	4078799	96.01	70	120	

Sample Report

In	115	1	No Gas	5066507	0.52	5144583	98.48	70	120	
Bi	209	1	No Gas	5117974	0.40	4944446	103.51	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	140SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:56:57-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	106.680	106.680	1.65	2224677	0.00	2000	
Be	9	1	No Gas	48.892	48.892	2.50	251739	0.02	2000	
V	51	2	He	48.943	48.943	1.46	475631	0.01	2000	
Cr	52	2	He	48.654	48.654	1.99	544933	0.01	2000	
Fe	56	2	He	5024.801	5024.801	1.20	52198906	0.01	200000	
Se	78	2	He	49.351	49.351	2.22	7666	0.64	2000	
As	75	2	He	49.353	49.353	2.35	85128	0.06	2000	
Ca	44	2	He	20761.088	20761.088	1.80	1315019	1.58	200000	
Na	23	2	He	180990.998	180990.998	1.81	310549649	0.06	200000	>LDR
Mg	24	2	He	13188.123	13188.123	1.83	13878134	0.10	200000	
K	39	2	He	5947.848	5947.848	2.16	7308952	0.08	200000	
Mn	55	2	He	238.452	238.452	1.51	2000898	0.01	2000	
Co	59	2	He	48.268	48.268	0.99	816986	0.01	2000	
Ni	60	2	He	50.235	50.235	0.94	218344	0.02	2000	
Cu	63	2	He	48.618	48.618	1.41	568136	0.01	2000	
Zn	66	2	He	57.661	57.661	2.59	124971	0.05	2000	
Al	27	2	He	107.557	107.557	1.92	71113	0.15	2000	
B	11	1	No Gas	447.064	447.064	1.46	1396772	0.03	2000	
Al	27	1	No Gas	105.530	105.530	2.28	2571165	0.00	2000	
Si	28	1	No Gas	23175.698	23175.698	1.95	267105849	0.01	2000	>LDR
Ag	107	1	No Gas	47.548	47.548	1.60	1510927	0.00	2000	
Cd	111	1	No Gas	48.228	48.228	1.41	305751	0.02	2000	
Sr	88	1	No Gas	327.595	327.595	1.94	20566071	0.00	2000	
Mo	95	1	No Gas	48.032	48.032	1.42	579760	0.01	2000	
Sn	118	1	No Gas	85.376	85.376	1.87	1778464	0.00	2000	
Sb	121	1	No Gas	49.815	49.815	2.41	1387901	0.00	2000	
Ba	137	1	No Gas	244.270	244.270	2.45	2576340	0.01	2000	
Tl	205	1	No Gas	41.752	41.752	2.35	2985330	0.00	2000	
Tl	203	1	No Gas	41.590	41.590	2.68	1211003	0.00	2000	
Pb	208	1	No Gas	48.029	48.029	1.24	4698955	0.00	2000	
U	238	1	No Gas	88.810	88.810	1.44	9111231	0.00	2000	
Ca	43	2	He	20503.621	20503.621	1.81	76175	26.92	200000	
Sb	121	2	He	49.645	49.645	1.60	606600	0.01	2000	
Ti	47	2	He	136.121	136.121	2.10	50007	0.27	2000	
Cu	63	1	No Gas	49.727	49.727	2.29	1123040	0.00	2000	
Ca	44	1	No Gas	20234.475	20234.475	1.86	18139493	0.11	200000	
Zn	66	1	No Gas	56.550	56.550	2.81	351169	0.02	2000	
Se	82	1	No Gas	48.703	48.703	1.08	18760	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1389407	0.10	1676119	82.89	70	120	
Ge	72	2	He	1109429	0.30	1163381	95.36	70	120	
Ge	72	1	No Gas	3868868	0.88	4078799	94.85	70	120	
In	115	1	No Gas	4895995	0.43	5144583	95.17	70	120	
Bi	209	1	No Gas	4819697	0.34	4944446	97.48	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	141SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:59:25-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	107.408	107.408	2.16	2264831	0.00	2000	
Be	9	1	No Gas	49.077	49.077	2.11	255558	0.02	2000	
V	51	2	He	49.027	49.027	1.95	487197	0.01	2000	
Cr	52	2	He	48.851	48.851	1.82	559430	0.01	2000	
Fe	56	2	He	5078.390	5078.390	0.94	53946448	0.01	200000	
Se	78	2	He	50.663	50.663	2.69	8043	0.63	2000	
As	75	2	He	49.619	49.619	2.10	87519	0.06	2000	
Ca	44	2	He	20945.361	20945.361	1.91	1356636	1.54	200000	
Na	23	2	He	180762.748	180762.748	1.68	317168955	0.06	200000	>LDR
Mg	24	2	He	13307.414	13307.414	1.78	14320306	0.09	200000	
K	39	2	He	5970.612	5970.612	1.77	7502182	0.08	200000	
Mn	55	2	He	240.242	240.242	0.79	2061454	0.01	2000	
Co	59	2	He	48.786	48.786	0.82	844387	0.01	2000	
Ni	60	2	He	50.523	50.523	0.94	224557	0.02	2000	
Cu	63	2	He	48.898	48.898	1.39	584305	0.01	2000	
Zn	66	2	He	58.399	58.399	2.55	129426	0.05	2000	
Al	27	2	He	109.732	109.732	2.79	74155	0.15	2000	
B	11	1	No Gas	449.441	449.441	1.59	1420119	0.03	2000	
Al	27	1	No Gas	106.533	106.533	1.34	2603719	0.00	2000	
Si	28	1	No Gas	23372.296	23372.296	0.96	270276196	0.01	2000	>LDR
Ag	107	1	No Gas	47.647	47.647	1.99	1528891	0.00	2000	
Cd	111	1	No Gas	48.432	48.432	2.24	310034	0.02	2000	
Sr	88	1	No Gas	330.254	330.254	2.03	20935986	0.00	2000	
Mo	95	1	No Gas	48.105	48.105	2.34	586309	0.01	2000	
Sn	118	1	No Gas	85.647	85.647	1.68	1801595	0.00	2000	
Sb	121	1	No Gas	50.433	50.433	1.15	1409941	0.00	2000	
Ba	137	1	No Gas	243.755	243.755	1.25	2596221	0.01	2000	
Tl	205	1	No Gas	42.492	42.492	2.57	3073187	0.00	2000	
Tl	203	1	No Gas	42.058	42.058	2.51	1238754	0.00	2000	
Pb	208	1	No Gas	48.288	48.288	2.32	4778825	0.00	2000	
U	238	1	No Gas	89.152	89.152	2.07	9252264	0.00	2000	
Ca	43	2	He	20914.338	20914.338	2.79	79453	26.32	200000	
Sb	121	2	He	49.766	49.766	1.33	621815	0.01	2000	
Ti	47	2	He	136.755	136.755	0.78	51375	0.27	2000	
Cu	63	1	No Gas	49.744	49.744	2.55	1127204	0.00	2000	
Ca	44	1	No Gas	20325.472	20325.472	1.62	18282326	0.11	200000	
Zn	66	1	No Gas	57.188	57.188	2.62	356306	0.02	2000	
Se	82	1	No Gas	49.004	49.004	1.54	18937	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1405331	0.77	1676119	83.84	70	120	
Ge	72	2	He	1134485	0.52	1163381	97.52	70	120	
Ge	72	1	No Gas	3881738	0.63	4078799	95.17	70	120	
In	115	1	No Gas	4944187	0.79	5144583	96.10	70	120	
Bi	209	1	No Gas	4876363	1.64	4944446	98.62	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	142SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:01:53-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	14.525	14.525	1.41	373909	0.00	2000	
Be	9	1	No Gas	92.602	92.602	2.08	484196	0.02	2000	
V	51	2	He	93.180	93.180	3.64	871269	0.01	2000	
Cr	52	2	He	92.457	92.457	3.14	989212	0.01	2000	
Fe	56	2	He	9521.782	9521.782	2.39	95500315	0.01	200000	
Se	78	2	He	93.833	93.833	0.76	13947	0.67	2000	
As	75	2	He	94.347	94.347	1.66	156861	0.06	2000	
Ca	44	2	He	24060.948	24060.948	2.94	1471542	1.64	200000	
Na	23	2	He	176156.061	176156.061	3.06	291886402	0.06	200000	
Mg	24	2	He	17225.310	17225.310	2.37	17503736	0.10	200000	
K	39	2	He	10317.894	10317.894	2.47	12158919	0.08	200000	
Mn	55	2	He	273.881	273.881	2.52	2219167	0.01	2000	
Co	59	2	He	92.979	92.979	1.50	1519013	0.01	2000	
Ni	60	2	He	93.410	93.410	1.51	391729	0.02	2000	
Cu	63	2	He	92.497	92.497	2.05	1043135	0.01	2000	
Zn	66	2	He	102.781	102.781	1.78	214436	0.05	2000	
Al	27	2	He	101.351	101.351	2.87	64802	0.16	2000	
B	11	1	No Gas	16.404	16.404	2.03	61410	0.03	2000	
Al	27	1	No Gas	99.747	99.747	1.91	2394994	0.00	2000	
Si	28	1	No Gas	22092.399	22092.399	2.77	250591936	0.01	2000	>LDR
Ag	107	1	No Gas	94.780	94.780	1.87	2983678	0.00	2000	
Cd	111	1	No Gas	92.977	92.977	1.34	584121	0.02	2000	
Sr	88	1	No Gas	232.845	232.845	2.23	14487509	0.00	2000	
Mo	95	1	No Gas	92.350	92.350	2.19	1104496	0.01	2000	
Sn	118	1	No Gas	0.398	0.398	6.37	14298	0.00	2000	
Sb	121	1	No Gas	95.812	95.812	1.89	2626741	0.00	2000	
Ba	137	1	No Gas	282.325	282.325	1.66	2950893	0.01	2000	
Tl	205	1	No Gas	93.035	93.035	2.36	6672509	0.00	2000	
Tl	203	1	No Gas	93.159	93.159	2.20	2720976	0.00	2000	
Pb	208	1	No Gas	93.215	93.215	1.49	9148190	0.00	2000	
U	238	1	No Gas	0.606	0.606	1.96	66107	0.00	2000	
Ca	43	2	He	23574.369	23574.369	4.21	84566	27.88	200000	
Sb	121	2	He	93.988	93.988	3.92	1108797	0.01	2000	
Ti	47	2	He	92.768	92.768	3.62	32916	0.28	2000	
Cu	63	1	No Gas	94.499	94.499	2.99	2094425	0.00	2000	
Ca	44	1	No Gas	24169.245	24169.245	2.95	21318319	0.11	200000	
Zn	66	1	No Gas	101.146	101.146	2.35	616115	0.02	2000	
Se	82	1	No Gas	93.147	93.147	4.46	34935	0.27	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1411394	0.51	1676119	84.21	70	120	
Ge	72	2	He	1071338	0.07	1163381	92.09	70	120	
Ge	72	1	No Gas	3807279	0.12	4078799	93.34	70	120	
In	115	1	No Gas	4851630	0.30	5144583	94.31	70	120	
Bi	209	1	No Gas	4837639	1.68	4944446	97.84	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	144_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:06:45-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.552	2.409	1954299	3.33	100	97.6	90	110	
Be	9	1	No Gas	97.275	1.527	479417	2.51	100	97.3	90	110	
V	51	2	He	96.083	1.787	872205	2.10	100	96.1	90	110	
Cr	52	2	He	96.516	1.709	1002089	1.73	100	96.5	90	110	
Fe	56	2	He	9787.536	1.586	95320909	2.50	10000	97.9	90	110	
Se	78	2	He	97.324	0.354	14041	1.66	100	97.3	90	110	
As	75	2	He	96.526	0.334	155815	1.26	100	96.5	90	110	
Ca	44	2	He	9436.495	0.476	560879	1.59	10000	94.4	90	110	
Na	23	2	He	9703.901	1.691	15886004	2.79	10000	97.0	90	110	
Mg	24	2	He	9724.745	1.784	9596472	2.93	10000	97.2	90	110	
K	39	2	He	9702.682	0.797	11108881	1.80	10000	97.0	90	110	
Mn	55	2	He	95.820	1.253	754331	1.73	100	95.8	90	110	
Co	59	2	He	98.328	1.418	1559730	2.04	100	98.3	90	110	
Ni	60	2	He	98.209	0.927	399861	1.33	100	98.2	90	110	
Cu	63	2	He	97.409	0.666	1066673	2.05	100	97.4	90	110	
Zn	66	2	He	98.450	1.176	199495	2.56	100	98.5	90	110	
Al	27	2	He	97.872	0.801	60821	2.26	100	97.9	90	110	
B	11	1	No Gas	491.582	0.617	1469668	1.49	500	98.3	90	110	
Al	27	1	No Gas	95.008	2.391	2184514	2.32	100	95.0	90	110	
Si	28	1	No Gas	480.285	2.398	5549526	2.20	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.527	2.271	2980253	1.67	100	97.5	90	110	
Cd	111	1	No Gas	96.019	1.816	585588	1.13	100	96.0	90	110	
Sr	88	1	No Gas	96.155	2.403	5809309	1.73	100	96.2	90	110	
Mo	95	1	No Gas	95.259	1.771	1105968	1.27	100	95.3	90	110	
Sn	118	1	No Gas	97.674	2.273	1956483	1.68	100	97.7	90	110	
Sb	121	1	No Gas	99.447	1.376	2607493	1.32	100	99.4	90	110	
Ba	137	1	No Gas	96.245	1.887	976991	1.34	100	96.2	90	110	
Tl	205	1	No Gas	96.511	1.564	6932289	1.88	100	96.5	90	110	
Tl	203	1	No Gas	96.436	1.376	2820946	1.66	100	96.4	90	110	
Pb	208	1	No Gas	96.434	1.288	9477230	1.55	100	96.4	90	110	
U	238	1	No Gas	96.828	2.417	9984069	2.68	100	96.8	90	110	
Ca	43	2	He	9496.983	0.899	33100	0.78	10000	95.0	90	110	
Sb	121	2	He	96.741	1.565	1108268	2.77	100	96.7	90	110	
Ti	47	2	He	97.289	1.854	33517	2.35	100	97.3	90	110	
Cu	63	1	No Gas	98.035	1.885	2077838	1.87	100	98.0	90	110	
Se	82	1	No Gas	93.104	4.526	33398	4.60	100	93.1	90	110	
Zr	90	1	No Gas	93.723	2.274	3537909	1.61	100	93.7	90	110	
Zr	90	2	He	94.723	1.871	1404681	2.67	100	94.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1330344	1.20	1676119	79.37	70	120	
Ge	72	2	He	1040242	1.55	1163381	89.42	70	120	
Ge	72	1	No Gas	3641278	0.28	4078799	89.27	70	120	
In	115	1	No Gas	4710168	0.70	5144583	91.56	70	120	
Bi	209	1	No Gas	4843888	0.36	4944446	97.97	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	145_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:09:09-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.068	43.2	77946	0.7	0.5	
Be	9	1	No Gas	0.017	39.1	280	12.5	0.5	
V	51	2	He	-0.048	-16.6	3013	2.5	2.5	
Cr	52	2	He	-0.466	-10.9	6975	7.9	2.5	
Fe	56	2	He	0.844	9.0	27093	2.1	100	
Se	78	2	He	0.160	86.7	163	12.0	2	
As	75	2	He	0.004	228.1	322	4.7	2.5	
Ca	44	2	He	4.017	32.5	1083	6.9	100	
Na	23	2	He	-56.582	-1.6	201152	0.7	100	
Mg	24	2	He	0.126	13.0	943	2.4	100	
K	39	2	He	-1.880	-31.4	111832	1.3	100	
Mn	55	2	He	0.183	4.4	2234	3.2	2.5	
Co	59	2	He	0.002	485.2	763	18.6	2.5	
Ni	60	2	He	0.076	19.7	703	8.7	2.5	
Cu	63	2	He	0.049	9.9	1233	4.9	2	
Zn	66	2	He	0.680	11.0	2264	7.5	2.5	
Al	27	2	He	-0.028	-6146.2	1622	65.9	5	
B	11	1	No Gas	4.355	7.2	23403	4.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.928	-4.1	37902	2.1	5	
Si	28	1	No Gas	1.241	3.4	368584	0.3	10	
Ag	107	1	No Gas	-0.014	-5.3	613	5.0	2.5	
Cd	111	1	No Gas	-0.002	-128.7	-12	-148.0	1	
Sr	88	1	No Gas	-0.028	-2.0	1483	3.5	2.5	
Mo	95	1	No Gas	0.059	22.7	883	17.0	2.5	
Sn	118	1	No Gas	0.068	109.9	7476	20.3	5	
Sb	121	1	No Gas	0.197	15.5	5831	13.7	2.5	
Ba	137	1	No Gas	0.013	181.9	860	28.6	2.5	
Tl	205	1	No Gas	0.015	36.9	3814	10.2	1	
Tl	203	1	No Gas	0.016	25.1	1533	7.4	1	
Pb	208	1	No Gas	0.008	21.1	6278	2.5	2.5	
U	238	1	No Gas	0.007	24.1	4591	3.6	2.5	
Ca	43	2	He	9.466	118.8	73	55.1	100	
Sb	121	2	He	0.160	12.2	2094	11.5	2.5	
Ti	47	2	He	0.013	212.0	20	50.0	2.5	
Cu	63	1	No Gas	-0.151	-7.2	3140	7.3	2.5	
Se	82	1	No Gas	-0.263	-41.8	307	13.2	2	
Zr	90	1	No Gas	0.182	19.3	8253	15.3	2.5	
Zr	90	2	He	0.113	5.2	3350	2.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1409852	0.65	1676119	84.11	70	120	
Ge	72	2	He	1062497	0.69	1163381	91.33	70	120	
Ge	72	1	No Gas	3726355	0.38	4078799	91.36	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4831228	1.15	5144583	93.91	70	120	
Bi	209	1	No Gas	4922551	0.50	4944446	99.56	70	120	

Sample Report

Sample Table

Sample Name	LCS-213798
Data File Name	155SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:33:55-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	28.706	28.706	2.34	871053	0.00	2000	
Be	9	1	No Gas	39.824	39.824	1.72	273241	0.01	2000	
V	51	2	He	45.468	45.468	1.07	482408	0.01	2000	
Cr	52	2	He	45.632	45.632	1.11	558492	0.01	2000	
Fe	56	2	He	4748.628	4748.628	0.94	53826288	0.01	200000	
Se	78	2	He	46.957	46.957	1.45	7966	0.59	2000	
As	75	2	He	46.047	46.047	0.82	86684	0.05	2000	
Ca	44	2	He	4615.138	4615.138	0.65	319686	1.44	200000	
Na	23	2	He	4825.776	4825.776	1.78	9361539	0.05	200000	
Mg	24	2	He	4714.874	4714.874	1.72	5414444	0.09	200000	
K	39	2	He	4698.212	4698.212	1.86	6326620	0.07	200000	
Mn	55	2	He	46.176	46.176	1.28	423490	0.01	2000	
Co	59	2	He	46.486	46.486	0.91	858538	0.01	2000	
Ni	60	2	He	47.058	47.058	2.26	223210	0.02	2000	
Cu	63	2	He	46.458	46.458	1.23	592399	0.01	2000	
Zn	66	2	He	47.400	47.400	1.53	112266	0.04	2000	
Al	27	2	He	64.303	64.303	1.57	47139	0.14	2000	
B	11	1	No Gas	292.657	292.657	1.38	1222622	0.02	2000	
Al	27	1	No Gas	64.566	64.566	1.89	1758851	0.00	2000	
Si	28	1	No Gas	374.589	374.589	1.93	5154045	0.01	2000	
Ag	107	1	No Gas	47.123	47.123	2.53	1684456	0.00	2000	
Cd	111	1	No Gas	45.549	45.549	1.55	324818	0.01	2000	
Sr	88	1	No Gas	65.255	65.255	2.35	4611268	0.00	2000	
Mo	95	1	No Gas	44.874	44.874	2.07	609302	0.01	2000	
Sn	118	1	No Gas	65.384	65.384	2.19	1533771	0.00	2000	
Sb	121	1	No Gas	47.266	47.266	1.70	1450566	0.00	2000	
Ba	137	1	No Gas	45.579	45.579	2.43	541465	0.01	2000	
Tl	205	1	No Gas	44.520	44.520	1.46	3701567	0.00	2000	
Tl	203	1	No Gas	44.038	44.038	1.65	1491099	0.00	2000	
Pb	208	1	No Gas	46.509	46.509	1.43	5291608	0.00	2000	
U	238	1	No Gas	30.684	30.684	1.72	3663554	0.00	2000	
Ca	43	2	He	4644.901	4644.901	3.89	18866	24.62	200000	
Sb	121	2	He	46.783	46.783	0.82	623752	0.01	2000	
Ti	47	2	He	80.164	80.164	0.74	32138	0.25	2000	
Cu	63	1	No Gas	47.170	47.170	1.14	1173648	0.00	2000	
Ca	44	1	No Gas	4747.857	4747.857	1.97	4709726	0.10	200000	
Zn	66	1	No Gas	46.517	46.517	2.17	318691	0.01	2000	
Se	82	1	No Gas	46.152	46.152	4.75	19608	0.24	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1850979	1.18	1676119	110.43	70	120	
Ge	72	2	He	1210438	1.36	1163381	104.04	70	120	
Ge	72	1	No Gas	4260550	0.93	4078799	104.46	70	120	

Sample Report

In	115	1	No Gas	5507053	0.40	5144583	107.05	70	120	
Bi	209	1	No Gas	5604463	0.22	4944446	113.35	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	157_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:38:43-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.454	10.5	99199	0.9	0.5	
Be	9	1	No Gas	0.005	84.8	252	9.8	0.5	
V	51	2	He	-0.211	-3.6	1720	4.5	2.5	
Cr	52	2	He	-0.494	-5.4	7596	3.2	2.5	
Fe	56	2	He	0.809	6.2	30417	2.9	100	
Se	78	2	He	-0.039	-95.2	153	3.3	2	
As	75	2	He	-0.030	-35.3	303	6.6	2.5	
Ca	44	2	He	2.475	80.9	1127	13.4	100	
Na	23	2	He	5.376	36.8	344386	1.7	100	
Mg	24	2	He	0.305	45.9	1277	11.8	100	
K	39	2	He	-10.780	-17.3	115430	1.8	100	
Mn	55	2	He	0.161	4.9	2340	3.7	2.5	
Co	59	2	He	0.002	310.0	867	10.9	2.5	
Ni	60	2	He	0.028	73.1	573	18.2	2.5	
Cu	63	2	He	0.043	15.6	1337	5.5	2	
Zn	66	2	He	0.679	15.5	2570	9.7	2.5	
Al	27	2	He	-0.892	-13.5	1240	6.5	5	
B	11	1	No Gas	3.183	13.6	22793	7.7	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.977	-7.0	41549	4.3	5	
Si	28	1	No Gas	-1.910	-9.3	376744	0.3	10	
Ag	107	1	No Gas	-0.019	-13.5	527	17.1	2.5	
Cd	111	1	No Gas	-0.002	-145.3	-12	-170.1	1	
Sr	88	1	No Gas	-0.026	-3.6	1860	3.8	2.5	
Mo	95	1	No Gas	0.054	16.1	930	12.7	2.5	
Sn	118	1	No Gas	0.016	92.8	7255	4.9	5	
Sb	121	1	No Gas	0.189	16.8	6342	15.2	2.5	
Ba	137	1	No Gas	0.022	82.1	1070	19.2	2.5	
Tl	205	1	No Gas	0.013	49.0	4217	13.1	1	
Tl	203	1	No Gas	0.017	12.4	1797	4.3	1	
Pb	208	1	No Gas	0.002	77.2	6511	3.0	2.5	
U	238	1	No Gas	0.006	47.4	5104	7.0	2.5	
Ca	43	2	He	8.671	103.4	80	45.1	100	
Sb	121	2	He	0.146	2.5	2184	3.2	2.5	
Ti	47	2	He	-0.035	-41.6	3	173.2	2.5	
Cu	63	1	No Gas	-0.166	-4.2	3174	5.1	2.5	
Se	82	1	No Gas	-0.270	-45.5	343	14.9	2	
Zr	90	1	No Gas	0.178	22.5	9180	19.2	2.5	
Zr	90	2	He	0.119	9.3	3914	6.0	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1629525	0.85	1676119	97.22	70	120	
Ge	72	2	He	1208116	1.09	1163381	103.85	70	120	
Ge	72	1	No Gas	4207683	0.27	4078799	103.16	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5458599	0.26	5144583	106.10	70	120	
Bi	209	1	No Gas	5634105	0.33	4944446	113.95	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	160_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:52:05-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	94.727	2.471	2053639	2.50	100	94.7	90	110	
Be	9	1	No Gas	100.967	2.094	537938	2.25	100	101.0	90	110	
V	51	2	He	98.163	1.264	988621	1.89	100	98.2	90	110	
Cr	52	2	He	98.420	1.459	1133569	1.93	100	98.4	90	110	
Fe	56	2	He	9429.504	1.052	101884568	1.58	10000	94.3	90	110	
Se	78	2	He	100.034	0.262	16008	1.40	100	100.0	90	110	
As	75	2	He	97.384	2.096	174439	3.18	100	97.4	90	110	
Ca	44	2	He	9003.431	0.772	593793	1.76	10000	90.0	90	110	
Na	23	2	He	9134.974	1.429	16609433	1.95	10000	91.3	90	110	
Mg	24	2	He	9246.090	1.872	10122249	2.31	10000	92.5	90	110	
K	39	2	He	9209.335	1.178	11704568	1.61	10000	92.1	90	110	
Mn	55	2	He	97.305	1.013	849924	1.77	100	97.3	90	110	
Co	59	2	He	100.127	0.864	1762218	1.79	100	100.1	90	110	
Ni	60	2	He	99.279	0.536	448484	1.11	100	99.3	90	110	
Cu	63	2	He	99.725	1.027	1211579	1.99	100	99.7	90	110	
Zn	66	2	He	99.110	1.845	222813	2.76	100	99.1	90	110	
Al	27	2	He	95.537	1.678	65914	2.59	100	95.5	90	110	
B	11	1	No Gas	464.198	1.256	1500924	1.43	500	92.8	90	110	
Al	27	1	No Gas	98.879	1.732	2468444	1.76	100	98.9	90	110	
Si	28	1	No Gas	481.488	1.886	6045715	1.78	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.494	2.677	3367670	1.56	100	100.5	90	110	
Cd	111	1	No Gas	101.219	2.662	676956	1.64	100	101.2	90	110	
Sr	88	1	No Gas	99.870	2.932	6616722	1.92	100	99.9	90	110	
Mo	95	1	No Gas	97.098	2.193	1236270	1.14	100	97.1	90	110	
Sn	118	1	No Gas	102.844	2.160	2258925	1.32	100	102.8	90	110	
Sb	121	1	No Gas	109.601	1.424	3123276	1.49	100	109.6	90	110	
Ba	137	1	No Gas	102.548	2.289	1141538	1.19	100	102.5	90	110	
Tl	205	1	No Gas	106.156	1.934	8452439	1.09	100	106.2	90	110	
Tl	203	1	No Gas	106.435	1.492	3451367	0.66	100	106.4	90	110	
Pb	208	1	No Gas	102.627	1.415	11180800	0.76	100	102.6	90	110	
U	238	1	No Gas	96.692	1.190	11052592	0.43	100	96.7	90	110	
Ca	43	2	He	9016.196	1.585	34867	1.39	10000	90.2	90	110	
Sb	121	2	He	103.951	2.529	1321132	2.94	100	104.0	90	110	
Ti	47	2	He	95.061	1.926	36341	3.02	100	95.1	90	110	
Cu	63	1	No Gas	102.840	1.471	2368685	1.61	100	102.8	90	110	
Se	82	1	No Gas	103.627	3.459	40354	3.61	100	103.6	90	110	
Zr	90	1	No Gas	51.966	3.069	2151762	1.98	100	52.0	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.682	2.189	851150	2.82	100	51.7	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1438259	0.29	1676119	85.81	70	120	
Ge	72	2	He	1154127	1.15	1163381	99.20	70	120	
Ge	72	1	No Gas	3957525	0.30	4078799	97.03	70	120	
In	115	1	No Gas	5165893	1.10	5144583	100.41	70	120	
Bi	209	1	No Gas	5370438	0.86	4944446	108.62	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	161_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:54:29-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	95.610	1.029	2041240	1.54	100	95.6	90	110	
Be	9	1	No Gas	102.485	1.168	537906	1.73	100	102.5	90	110	
V	51	2	He	100.231	2.105	1008073	2.45	100	100.2	90	110	
Cr	52	2	He	99.401	1.781	1143273	2.02	100	99.4	90	110	
Fe	56	2	He	9487.578	1.447	102378175	1.53	10000	94.9	90	110	
Se	78	2	He	100.827	1.131	16114	1.83	100	100.8	90	110	
As	75	2	He	99.027	1.910	177131	2.46	100	99.0	90	110	
Ca	44	2	He	9248.044	2.846	609103	3.06	10000	92.5	90	110	
Na	23	2	He	9343.703	2.234	16957993	1.67	10000	93.4	90	110	
Mg	24	2	He	9480.477	2.534	10365035	2.52	10000	94.8	90	110	
K	39	2	He	9539.387	2.440	12103944	2.51	10000	95.4	90	110	
Mn	55	2	He	98.323	1.005	857667	1.13	100	98.3	90	110	
Co	59	2	He	101.307	1.434	1780573	1.38	100	101.3	90	110	
Ni	60	2	He	100.589	1.764	453808	1.75	100	100.6	90	110	
Cu	63	2	He	101.821	2.086	1235372	2.30	100	101.8	90	110	
Zn	66	2	He	101.613	0.835	228098	1.08	100	101.6	90	110	
Al	27	2	He	98.933	3.430	68105	3.72	100	98.9	90	110	
B	11	1	No Gas	474.009	0.830	1509610	1.12	500	94.8	90	110	
Al	27	1	No Gas	98.338	1.682	2466195	1.61	100	98.3	90	110	
Si	28	1	No Gas	477.698	2.043	6027787	1.88	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.702	1.747	3408189	1.15	100	102.7	90	110	
Cd	111	1	No Gas	103.567	1.708	685919	1.15	100	103.6	90	110	
Sr	88	1	No Gas	101.126	1.525	6634884	0.97	100	101.1	90	110	
Mo	95	1	No Gas	99.077	1.327	1249165	0.76	100	99.1	90	110	
Sn	118	1	No Gas	103.712	2.198	2255601	1.61	100	103.7	90	110	
Sb	121	1	No Gas	108.511	1.834	3105971	1.82	100	108.5	90	110	
Ba	137	1	No Gas	102.938	2.375	1134672	1.78	100	102.9	90	110	
Tl	205	1	No Gas	107.679	0.207	8556904	1.28	100	107.7	90	110	
Tl	203	1	No Gas	106.389	0.368	3443058	1.45	100	106.4	90	110	
Pb	208	1	No Gas	103.679	0.723	11273002	1.69	100	103.7	90	110	
U	238	1	No Gas	97.779	1.169	11155154	2.18	100	97.8	90	110	
Ca	43	2	He	9412.011	3.365	36351	3.41	10000	94.1	90	110	
Sb	121	2	He	106.238	1.856	1348364	1.74	100	106.2	90	110	
Ti	47	2	He	99.646	1.382	38039	1.63	100	99.6	90	110	
Cu	63	1	No Gas	102.521	1.092	2371827	1.04	100	102.5	90	110	
Se	82	1	No Gas	105.180	0.548	41133	0.62	100	105.2	90	110	
Zr	90	1	No Gas	51.952	1.240	2130377	0.82	100	52.0	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.813	2.369	852060	1.83	100	51.8	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1416842	0.58	1676119	84.53	70	120	
Ge	72	2	He	1152678	1.29	1163381	99.08	70	120	
Ge	72	1	No Gas	3975139	0.12	4078799	97.46	70	120	
In	115	1	No Gas	5115001	0.60	5144583	99.43	70	120	
Bi	209	1	No Gas	5359255	1.09	4944446	108.39	70	120	

Sample Report

Sample Table

Sample Name	HS24060795-03
Data File Name	162SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:56:59-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	19.647	19.647	0.76	458771	0.00	2000	
Be	9	1	No Gas	0.019	0.019	43.62	280	0.01	2000	
V	51	2	He	2.040	2.040	2.77	23347	0.01	2000	
Cr	52	2	He	356.177	356.177	3.00	3920884	0.01	2000	
Fe	56	2	He	6008.531	6008.531	3.18	62571179	0.01	200000	
Se	78	2	He	0.254	0.254	65.88	185	0.14	2000	
As	75	2	He	0.820	0.820	5.43	1743	0.05	2000	
Ca	44	2	He	50598.837	50598.837	2.72	3211673	1.58	200000	
Na	23	2	He	338930.225	338930.225	2.73	582751325	0.06	200000	>LDR
Mg	24	2	He	20371.702	20371.702	2.81	21490624	0.09	200000	
K	39	2	He	1786.716	1786.716	2.86	2284547	0.08	200000	
Mn	55	2	He	62.775	62.775	3.15	528674	0.01	2000	
Co	59	2	He	4.025	4.025	3.82	69003	0.01	2000	
Ni	60	2	He	430.586	430.586	2.84	1873160	0.02	2000	
Cu	63	2	He	12.188	12.188	2.93	143325	0.01	2000	
Zn	66	2	He	4.711	4.711	3.58	11065	0.04	2000	
Al	27	2	He	14.877	14.877	6.10	11341	0.13	2000	
B	11	1	No Gas	22.279	22.279	2.85	76590	0.03	2000	
Al	27	1	No Gas	13.888	13.888	1.36	387348	0.00	2000	
Si	28	1	No Gas	15717.554	15717.554	0.69	179241697	0.01	2000	>LDR
Ag	107	1	No Gas	0.023	0.023	5.62	1803	0.00	2000	
Cd	111	1	No Gas	0.124	0.124	15.78	787	0.02	2000	
Sr	88	1	No Gas	975.110	975.110	2.14	61163159	0.00	2000	
Mo	95	1	No Gas	27.249	27.249	0.98	328766	0.01	2000	
Sn	118	1	No Gas	0.548	0.548	2.62	17535	0.00	2000	
Sb	121	1	No Gas	0.692	0.692	2.15	19615	0.00	2000	
Ba	137	1	No Gas	604.815	604.815	0.80	6374170	0.01	2000	
Tl	205	1	No Gas	0.021	0.021	24.24	4261	0.00	2000	
Tl	203	1	No Gas	0.023	0.023	31.42	1747	0.00	2000	
Pb	208	1	No Gas	0.053	0.053	1.50	10859	0.00	2000	
U	238	1	No Gas	1.176	1.176	0.64	128006	0.00	2000	
Ca	43	2	He	49318.383	49318.383	2.45	183625	26.86	200000	
Sb	121	2	He	0.666	0.666	8.21	8383	0.01	2000	
Ti	47	2	He	1.649	1.649	9.61	623	0.26	2000	
Cu	63	1	No Gas	14.653	14.653	2.01	331851	0.00	2000	
Ca	44	1	No Gas	48557.737	48557.737	0.58	43009608	0.11	200000	
Zn	66	1	No Gas	4.511	4.511	0.86	30090	0.01	2000	
Se	82	1	No Gas	0.690	0.690	18.41	670	0.10	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1352571	0.33	1676119	80.70	70	120	
Ge	72	2	He	1112245	0.32	1163381	95.60	70	120	
Ge	72	1	No Gas	3825564	0.69	4078799	93.79	70	120	
In	115	1	No Gas	4893007	1.55	5144583	95.11	70	120	
Bi	209	1	No Gas	4960527	0.62	4944446	100.33	70	120	

Sample Report

Sample Table

Sample Name	HS24060795-04
Data File Name	163SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:59:27-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	18.958	18.958	0.94	454354	0.00	2000	
Be	9	1	No Gas	0.008	0.008	92.35	228	0.00	2000	
V	51	2	He	2.241	2.241	2.15	25284	0.01	2000	
Cr	52	2	He	386.187	386.187	1.59	4249657	0.01	2000	
Fe	56	2	He	6638.120	6638.120	2.15	69116877	0.01	200000	
Se	78	2	He	0.128	0.128	121.67	166	0.08	2000	
As	75	2	He	0.805	0.805	10.54	1718	0.05	2000	
Ca	44	2	He	49919.999	49919.999	1.04	3168509	1.58	200000	
Na	23	2	He	335534.642	335534.642	2.10	576838938	0.06	200000	>LDR
Mg	24	2	He	20107.547	20107.547	1.69	21210623	0.09	200000	
K	39	2	He	1787.789	1787.789	1.69	2285713	0.08	200000	
Mn	55	2	He	60.405	60.405	1.43	508690	0.01	2000	
Co	59	2	He	4.018	4.018	2.49	68878	0.01	2000	
Ni	60	2	He	430.015	430.015	2.39	1870523	0.02	2000	
Cu	63	2	He	13.954	13.954	2.10	163962	0.01	2000	
Zn	66	2	He	4.702	4.702	0.91	11045	0.04	2000	
Al	27	2	He	14.415	14.415	3.24	11041	0.13	2000	
B	11	1	No Gas	19.348	19.348	0.40	69125	0.03	2000	
Al	27	1	No Gas	14.191	14.191	1.00	393729	0.00	2000	
Si	28	1	No Gas	15547.718	15547.718	2.18	176957204	0.01	2000	>LDR
Ag	107	1	No Gas	0.013	0.013	42.86	1503	0.00	2000	
Cd	111	1	No Gas	0.122	0.122	13.62	786	0.02	2000	
Sr	88	1	No Gas	947.130	947.130	1.20	60115786	0.00	2000	
Mo	95	1	No Gas	26.791	26.791	1.73	327043	0.01	2000	
Sn	118	1	No Gas	0.479	0.479	6.43	16290	0.00	2000	
Sb	121	1	No Gas	0.658	0.658	2.38	18657	0.00	2000	
Ba	137	1	No Gas	585.562	585.562	0.91	6243848	0.01	2000	
Tl	205	1	No Gas	0.009	0.009	42.36	3384	0.00	2000	
Tl	203	1	No Gas	0.006	0.006	25.42	1240	0.00	2000	
Pb	208	1	No Gas	0.050	0.050	2.30	10529	0.00	2000	
U	238	1	No Gas	1.153	1.153	1.29	125858	0.00	2000	
Ca	43	2	He	48564.459	48564.459	1.92	180802	26.86	200000	
Sb	121	2	He	0.634	0.634	2.94	7993	0.01	2000	
Ti	47	2	He	1.531	1.531	14.50	580	0.26	2000	
Cu	63	1	No Gas	15.866	15.866	1.22	358092	0.00	2000	
Ca	44	1	No Gas	47421.027	47421.027	1.04	41922687	0.11	200000	
Zn	66	1	No Gas	4.641	4.641	1.61	30832	0.02	2000	
Se	82	1	No Gas	0.433	0.433	50.36	573	0.08	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1380229	0.04	1676119	82.35	70	120	
Ge	72	2	He	1112190	1.24	1163381	95.60	70	120	
Ge	72	1	No Gas	3818348	0.92	4078799	93.61	70	120	
In	115	1	No Gas	4950454	0.54	5144583	96.23	70	120	
Bi	209	1	No Gas	4973645	0.28	4944446	100.59	70	120	

Sample Report

Sample Table

Sample Name	HS24060795-05
Data File Name	164SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:01:54-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	25.908	25.908	0.98	606162	0.00	2000	
Be	9	1	No Gas	0.018	0.018	99.03	288	0.01	2000	
V	51	2	He	1.364	1.364	1.17	17365	0.01	2000	
Cr	52	2	He	61.248	61.248	1.83	707130	0.01	2000	
Fe	56	2	He	1281.105	1281.105	2.34	13798273	0.01	200000	
Se	78	2	He	0.160	0.160	82.71	177	0.09	2000	
As	75	2	He	0.908	0.908	1.67	1957	0.05	2000	
Ca	44	2	He	19145.671	19145.671	2.25	1256026	1.52	200000	
Na	23	2	He	166928.141	166928.141	1.51	296662176	0.06	200000	
Mg	24	2	He	15672.342	15672.342	1.78	17080315	0.09	200000	
K	39	2	He	1727.601	1727.601	1.55	2286075	0.08	200000	
Mn	55	2	He	37.704	37.704	2.88	328373	0.01	2000	
Co	59	2	He	1.049	1.049	2.54	19170	0.01	2000	
Ni	60	2	He	86.695	86.695	2.34	389958	0.02	2000	
Cu	63	2	He	3.544	3.544	2.09	43586	0.01	2000	
Zn	66	2	He	10.773	10.773	2.00	24940	0.04	2000	
Al	27	2	He	9.270	9.270	5.67	7969	0.12	2000	
B	11	1	No Gas	13.320	13.320	1.47	51630	0.03	2000	
Al	27	1	No Gas	9.416	9.416	4.14	290977	0.00	2000	
Si	28	1	No Gas	16011.003	16011.003	1.90	188294597	0.01	2000	>LDR
Ag	107	1	No Gas	-0.011	-0.011	-26.72	750	0.00	2000	
Cd	111	1	No Gas	0.180	0.180	3.56	1191	0.02	2000	
Sr	88	1	No Gas	362.506	362.506	1.51	23638008	0.00	2000	
Mo	95	1	No Gas	0.742	0.742	2.67	9487	0.01	2000	
Sn	118	1	No Gas	0.134	0.134	8.27	9290	0.00	2000	
Sb	121	1	No Gas	0.167	0.167	8.83	5305	0.00	2000	
Ba	137	1	No Gas	467.672	467.672	1.52	5122877	0.01	2000	
Tl	205	1	No Gas	0.013	0.013	9.95	3847	0.00	2000	
Tl	203	1	No Gas	0.015	0.015	27.25	1597	0.00	2000	
Pb	208	1	No Gas	0.033	0.033	3.88	9191	0.00	2000	
U	238	1	No Gas	0.147	0.147	4.86	20324	0.00	2000	
Ca	43	2	He	19133.069	19133.069	1.37	73617	25.99	200000	
Sb	121	2	He	0.154	0.154	5.62	2187	0.01	2000	
Ti	47	2	He	1.122	1.122	17.17	443	0.25	2000	
Cu	63	1	No Gas	4.546	4.546	1.39	110848	0.00	2000	
Ca	44	1	No Gas	18936.999	18936.999	2.27	17313724	0.11	200000	
Zn	66	1	No Gas	10.515	10.515	1.63	68772	0.02	2000	
Se	82	1	No Gas	-0.031	-0.031	-547.97	413	-0.01	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1409825	0.22	1676119	84.11	70	120	
Ge	72	2	He	1148925	0.56	1163381	98.76	70	120	
Ge	72	1	No Gas	3945656	1.03	4078799	96.74	70	120	
In	115	1	No Gas	5085536	0.70	5144583	98.85	70	120	
Bi	209	1	No Gas	5198344	1.68	4944446	105.14	70	120	

Sample Report

Sample Table

Sample Name	HS24060795-07
Data File Name	165SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:04:22-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	41.563	41.563	1.18	927044	0.00	2000	
Be	9	1	No Gas	0.041	0.041	6.24	408	0.01	2000	
V	51	2	He	1.084	1.084	1.58	14166	0.01	2000	
Cr	52	2	He	177.589	177.589	1.46	1970307	0.01	2000	
Fe	56	2	He	5275.361	5275.361	1.43	55195219	0.01	200000	
Se	78	2	He	0.200	0.200	67.85	178	0.11	2000	
As	75	2	He	0.326	0.326	10.56	896	0.04	2000	
Ca	44	2	He	95102.225	95102.225	2.90	6064253	1.57	200000	
Na	23	2	He	338522.719	338522.719	1.53	584776111	0.06	200000	>LDR
Mg	24	2	He	71176.642	71176.642	1.63	75436459	0.09	200000	
K	39	2	He	1535.451	1535.451	2.26	1989359	0.08	200000	
Mn	55	2	He	870.310	870.310	1.36	7353408	0.01	2000	
Co	59	2	He	30.401	30.401	0.88	518539	0.01	2000	
Ni	60	2	He	664.903	664.903	1.67	2905866	0.02	2000	
Cu	63	2	He	16.928	16.928	1.96	199719	0.01	2000	
Zn	66	2	He	15.697	15.697	1.28	34925	0.04	2000	
Al	27	2	He	12.711	12.711	1.67	9987	0.13	2000	
B	11	1	No Gas	9.996	9.996	3.26	41201	0.02	2000	
Al	27	1	No Gas	11.921	11.921	3.33	347209	0.00	2000	
Si	28	1	No Gas	20870.912	20870.912	1.93	242167076	0.01	2000	>LDR
Ag	107	1	No Gas	0.029	0.029	27.14	2034	0.00	2000	
Cd	111	1	No Gas	0.362	0.362	7.08	2353	0.02	2000	
Sr	88	1	No Gas	1797.164	1797.164	1.40	115534668	0.00	2000	
Mo	95	1	No Gas	7.995	7.995	2.43	98975	0.01	2000	
Sn	118	1	No Gas	0.292	0.292	3.93	12529	0.00	2000	
Sb	121	1	No Gas	0.334	0.334	2.81	9947	0.00	2000	
Ba	137	1	No Gas	2968.091	2968.091	2.58	32050770	0.01	2000	>LDR
Tl	205	1	No Gas	0.026	0.026	9.03	4661	0.00	2000	
Tl	203	1	No Gas	0.028	0.028	12.92	1920	0.00	2000	
Pb	208	1	No Gas	0.151	0.151	4.39	20827	0.00	2000	
U	238	1	No Gas	0.195	0.195	3.95	24541	0.00	2000	
Ca	43	2	He	93274.201	93274.201	3.00	348880	26.74	200000	
Sb	121	2	He	0.340	0.340	8.43	4414	0.01	2000	
Ti	47	2	He	1.128	1.128	11.91	433	0.26	2000	
Cu	63	1	No Gas	18.784	18.784	2.29	431182	0.00	2000	
Ca	44	1	No Gas	89824.409	89824.409	2.41	80966162	0.11	200000	
Zn	66	1	No Gas	14.585	14.585	1.71	93134	0.02	2000	
Se	82	1	No Gas	1.064	1.064	10.86	823	0.13	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1411195	0.74	1676119	84.19	70	120	
Ge	72	2	He	1117372	0.48	1163381	96.05	70	120	
Ge	72	1	No Gas	3894752	1.09	4078799	95.49	70	120	
In	115	1	No Gas	5014557	1.16	5144583	97.47	70	120	
Bi	209	1	No Gas	4987350	1.50	4944446	100.87	70	120	

Sample Report

Sample Table

Sample Name	HS24060795-08
Data File Name	166SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:06:50-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	456.961	456.961	1.15	9298953	0.00	2000	
Be	9	1	No Gas	0.001	0.001	678.28	198	0.00	2000	
V	51	2	He	1.537	1.537	1.33	18839	0.01	2000	
Cr	52	2	He	66.787	66.787	1.92	759863	0.01	2000	
Fe	56	2	He	50.089	50.089	1.59	551604	0.01	200000	
Se	78	2	He	0.419	0.419	29.09	215	0.20	2000	
As	75	2	He	1.108	1.108	2.93	2282	0.05	2000	
Ca	44	2	He	54787.049	54787.049	1.46	3545505	1.55	200000	
Na	23	2	He	285328.576	285328.576	1.35	500234393	0.06	200000	>LDR
Mg	24	2	He	524.781	524.781	2.27	565289	0.09	200000	
K	39	2	He	274612.986	274612.986	2.02	339418068	0.08	200000	>LDR
Mn	55	2	He	12.884	12.884	2.79	111276	0.01	2000	
Co	59	2	He	0.118	0.118	4.52	2827	0.00	2000	
Ni	60	2	He	1.472	1.472	5.30	6942	0.02	2000	
Cu	63	2	He	0.617	0.617	6.44	8093	0.01	2000	
Zn	66	2	He	8.638	8.638	1.75	19918	0.04	2000	
Al	27	2	He	130.650	130.650	2.01	87914	0.15	2000	
B	11	1	No Gas	70.745	70.745	0.86	229509	0.03	2000	
Al	27	1	No Gas	129.418	129.418	1.35	3115986	0.00	2000	
Si	28	1	No Gas	6199.766	6199.766	1.08	71191131	0.01	2000	>LDR
Ag	107	1	No Gas	-0.006	-0.006	-84.44	883	0.00	2000	
Cd	111	1	No Gas	0.038	0.038	5.80	242	0.02	2000	
Sr	88	1	No Gas	3206.109	3206.109	1.15	202390304	0.00	2000	>LDR
Mo	95	1	No Gas	2.719	2.719	1.67	33181	0.01	2000	
Sn	118	1	No Gas	0.291	0.291	7.11	12273	0.00	2000	
Sb	121	1	No Gas	0.340	0.340	3.89	9974	0.00	2000	
Ba	137	1	No Gas	251.582	251.582	1.62	2668506	0.01	2000	
Tl	205	1	No Gas	-0.001	-0.001	-498.53	2584	0.00	2000	
Tl	203	1	No Gas	0.003	0.003	123.93	1117	0.00	2000	
Pb	208	1	No Gas	0.030	0.030	6.51	8158	0.00	2000	
U	238	1	No Gas	0.018	0.018	2.33	5521	0.00	2000	
Ca	43	2	He	56350.659	56350.659	2.66	213905	26.34	200000	
Sb	121	2	He	0.321	0.321	4.44	4244	0.01	2000	
Ti	47	2	He	0.543	0.543	13.01	220	0.25	2000	
Cu	63	1	No Gas	2.261	2.261	2.93	56968	0.00	2000	
Ca	44	1	No Gas	47520.933	47520.933	0.98	42251255	0.11	200000	
Zn	66	1	No Gas	8.331	8.331	1.25	53578	0.02	2000	
Se	82	1	No Gas	1.361	1.361	30.22	923	0.15	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1392028	0.90	1676119	83.05	70	120	
Ge	72	2	He	1133969	0.02	1163381	97.47	70	120	
Ge	72	1	No Gas	3840113	0.99	4078799	94.15	70	120	
In	115	1	No Gas	4923701	0.42	5144583	95.71	70	120	
Bi	209	1	No Gas	4749655	0.70	4944446	96.06	70	120	

Sample Report

Sample Table

Sample Name	HS24060795-09
Data File Name	167SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:09:20-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	5.801	5.801	2.62	203107	0.00	2000	
Be	9	1	No Gas	0.014	0.014	69.41	278	0.01	2000	
V	51	2	He	0.615	0.615	2.86	9322	0.01	2000	
Cr	52	2	He	3.256	3.256	1.54	46890	0.01	2000	
Fe	56	2	He	271.738	271.738	1.44	2774236	0.01	200000	
Se	78	2	He	0.093	0.093	195.65	157	0.06	2000	
As	75	2	He	0.264	0.264	14.91	764	0.03	2000	
Ca	44	2	He	56572.111	56572.111	1.82	3497217	1.62	200000	
Na	23	2	He	30286.363	30286.363	1.23	50989141	0.06	200000	
Mg	24	2	He	11309.772	11309.772	1.79	11620648	0.10	200000	
K	39	2	He	511.244	511.244	2.06	719635	0.07	200000	
Mn	55	2	He	138.530	138.530	1.33	1135313	0.01	2000	
Co	59	2	He	6.497	6.497	0.63	108021	0.01	2000	
Ni	60	2	He	292.828	292.828	1.05	1240790	0.02	2000	
Cu	63	2	He	2.219	2.219	1.79	25995	0.01	2000	
Zn	66	2	He	9.514	9.514	0.78	20866	0.05	2000	
Al	27	2	He	36.596	36.596	4.58	24729	0.15	2000	
B	11	1	No Gas	9.267	9.267	3.10	40457	0.02	2000	
Al	27	1	No Gas	38.851	38.851	6.68	959349	0.00	2000	
Si	28	1	No Gas	13700.533	13700.533	1.74	153927381	0.01	2000	>LDR
Ag	107	1	No Gas	0.002	0.002	49.45	1143	0.00	2000	
Cd	111	1	No Gas	0.286	0.286	5.31	1815	0.02	2000	
Sr	88	1	No Gas	504.872	504.872	2.39	31688458	0.00	2000	
Mo	95	1	No Gas	0.778	0.778	1.82	9570	0.01	2000	
Sn	118	1	No Gas	0.447	0.447	2.48	15443	0.00	2000	
Sb	121	1	No Gas	0.395	0.395	5.64	11265	0.00	2000	
Ba	137	1	No Gas	443.226	443.226	1.43	4673354	0.01	2000	
Tl	205	1	No Gas	0.003	0.003	33.79	3044	0.00	2000	
Tl	203	1	No Gas	0.010	0.010	15.31	1377	0.00	2000	
Pb	208	1	No Gas	0.141	0.141	5.60	20003	0.00	2000	
U	238	1	No Gas	0.977	0.977	0.36	108540	0.00	2000	
Ca	43	2	He	54825.504	54825.504	1.99	198807	27.58	200000	
Sb	121	2	He	0.386	0.386	2.35	4828	0.01	2000	
Ti	47	2	He	0.932	0.932	26.79	350	0.27	2000	
Cu	63	1	No Gas	2.276	2.276	2.87	56238	0.00	2000	
Ca	44	1	No Gas	56871.239	56871.239	1.80	49610701	0.11	200000	
Zn	66	1	No Gas	9.315	9.315	1.58	58474	0.02	2000	
Se	82	1	No Gas	-0.244	-0.244	-68.11	317	-0.08	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1467257	0.75	1676119	87.54	70	120	
Ge	72	2	He	1083170	0.56	1163381	93.11	70	120	
Ge	72	1	No Gas	3767865	0.93	4078799	92.38	70	120	

Sample Report

In	115	1	No Gas	4894857	0.50	5144583	95.15	70	120	
Bi	209	1	No Gas	5035015	0.52	4944446	101.83	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	172_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:22:50-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	95.580	1.895	1924077	2.36	100	95.6	90	110	
Be	9	1	No Gas	102.052	1.189	505031	1.80	100	102.1	90	110	
V	51	2	He	100.677	2.254	950090	2.82	100	100.7	90	110	
Cr	52	2	He	101.574	2.157	1095938	2.63	100	101.6	90	110	
Fe	56	2	He	9627.994	2.805	97487762	3.24	10000	96.3	90	110	
Se	78	2	He	101.565	0.972	15229	1.72	100	101.6	90	110	
As	75	2	He	99.941	1.207	167718	1.41	100	99.9	90	110	
Ca	44	2	He	9215.957	1.478	569548	2.16	10000	92.2	90	110	
Na	23	2	He	9295.562	0.907	15832876	1.66	10000	93.0	90	110	
Mg	24	2	He	9426.381	0.900	9670489	1.75	10000	94.3	90	110	
K	39	2	He	9415.508	0.754	11211536	1.70	10000	94.2	90	110	
Mn	55	2	He	99.289	2.112	812660	2.50	100	99.3	90	110	
Co	59	2	He	102.382	2.791	1688418	2.90	100	102.4	90	110	
Ni	60	2	He	101.173	1.921	428280	2.16	100	101.2	90	110	
Cu	63	2	He	102.639	2.240	1168457	2.62	100	102.6	90	110	
Zn	66	2	He	100.921	2.465	212588	3.06	100	100.9	90	110	
Al	27	2	He	98.265	1.868	63487	2.99	100	98.3	90	110	
B	11	1	No Gas	465.428	1.100	1397790	1.59	500	93.1	90	110	
Al	27	1	No Gas	97.662	1.475	2324431	1.75	100	97.7	90	110	
Si	28	1	No Gas	473.760	1.343	5675407	1.55	5000	9.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.055	1.476	3255687	1.72	100	102.1	90	110	
Cd	111	1	No Gas	102.446	1.922	652250	2.16	100	102.4	90	110	
Sr	88	1	No Gas	99.779	1.823	6293305	2.08	100	99.8	90	110	
Mo	95	1	No Gas	97.436	2.300	1180965	2.57	100	97.4	90	110	
Sn	118	1	No Gas	103.598	0.571	2165979	0.83	100	103.6	90	110	
Sb	121	1	No Gas	109.473	1.267	2973290	1.58	100	109.5	90	110	
Ba	137	1	No Gas	103.012	1.275	1091588	1.51	100	103.0	90	110	
Tl	205	1	No Gas	105.893	1.081	8195735	1.52	100	105.9	90	110	
Tl	203	1	No Gas	105.641	1.615	3329763	2.00	100	105.6	90	110	
Pb	208	1	No Gas	102.433	0.464	10847005	0.85	100	102.4	90	110	
U	238	1	No Gas	96.994	1.002	10776499	1.36	100	97.0	90	110	
Ca	43	2	He	9326.807	1.915	33805	3.05	10000	93.3	90	110	
Sb	121	2	He	107.828	1.262	1284226	2.19	100	107.8	90	110	
Ti	47	2	He	100.082	2.807	35847	2.85	100	100.1	90	110	
Cu	63	1	No Gas	101.873	0.892	2236381	1.26	100	101.9	90	110	
Se	82	1	No Gas	102.053	3.321	37883	3.66	100	102.1	90	110	
Zr	90	1	No Gas	50.844	1.598	2004268	1.86	100	50.8	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.937	1.894	801568	2.90	100	51.9	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1335890	0.61	1676119	79.70	70	120	
Ge	72	2	He	1081518	1.18	1163381	92.96	70	120	
Ge	72	1	No Gas	3771797	0.38	4078799	92.47	70	120	
In	115	1	No Gas	4916677	0.27	5144583	95.57	70	120	
Bi	209	1	No Gas	5219533	0.48	4944446	105.56	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	173_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:25:15-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.210	15.7	81183	0.9	0.5	
Be	9	1	No Gas	0.098	33.3	708	24.0	0.5	
V	51	2	He	-0.160	-3.5	2062	2.9	2.5	
Cr	52	2	He	-0.456	-9.6	7372	6.1	2.5	
Fe	56	2	He	4.450	13.4	65575	9.7	100	
Se	78	2	He	0.089	78.2	159	6.2	2	
As	75	2	He	0.015	205.8	354	14.6	2.5	
Ca	44	2	He	5.360	47.8	1213	13.6	100	
Na	23	2	He	-57.326	-2.3	208188	1.3	100	
Mg	24	2	He	3.688	18.3	4721	15.1	100	
K	39	2	He	-2.227	-64.3	116029	1.9	100	
Mn	55	2	He	0.213	6.1	2577	4.8	2.5	
Co	59	2	He	0.037	22.6	1390	10.4	2.5	
Ni	60	2	He	0.102	18.8	843	10.4	2.5	
Cu	63	2	He	0.071	10.4	1543	5.5	2	
Zn	66	2	He	0.766	6.4	2540	4.6	2.5	
Al	27	2	He	-0.807	-12.4	1190	5.0	5	
B	11	1	No Gas	3.007	18.4	19240	9.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.863	-5.5	40596	2.7	5	
Si	28	1	No Gas	0.423	95.6	370315	0.5	10	
Ag	107	1	No Gas	0.053	51.6	2840	31.0	2.5	
Cd	111	1	No Gas	0.094	32.4	616	31.7	1	
Sr	88	1	No Gas	0.063	50.8	7419	27.2	2.5	
Mo	95	1	No Gas	0.146	25.8	2000	22.9	2.5	
Sn	118	1	No Gas	0.091	22.0	8273	4.6	5	
Sb	121	1	No Gas	0.097	28.5	3230	23.8	2.5	
Ba	137	1	No Gas	0.095	36.1	1777	20.3	2.5	
Tl	205	1	No Gas	0.113	34.1	11970	27.3	1	
Tl	203	1	No Gas	0.111	35.9	4761	28.9	1	
Pb	208	1	No Gas	0.096	36.7	16471	25.2	2.5	
U	238	1	No Gas	0.087	39.5	14176	29.6	2.5	
Ca	43	2	He	5.972	93.2	63	32.9	100	
Sb	121	2	He	0.057	12.7	917	9.8	2.5	
Ti	47	2	He	0.011	244.1	20	50.0	2.5	
Cu	63	1	No Gas	-0.086	-47.4	4671	19.1	2.5	
Se	82	1	No Gas	-0.135	-166.4	363	22.2	2	
Zr	90	1	No Gas	0.077	31.9	4367	22.1	2.5	
Zr	90	2	He	0.037	37.5	2290	10.1	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1415964	0.17	1676119	84.48	70	120	
Ge	72	2	He	1106349	0.55	1163381	95.10	70	120	
Ge	72	1	No Gas	3838591	0.89	4078799	94.11	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5033074	0.60	5144583	97.83	70	120	
Bi	209	1	No Gas	5363685	1.73	4944446	108.48	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	176SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:41:21-05:00
Sample Type	Sample
Dilution	10
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.714	17.144	4.27	113877	0.00	2000	
Be	9	1	No Gas	0.004	0.040	85.66	218	0.00	2000	
V	51	2	He	0.004	0.045	218.61	3696	0.00	2000	
Cr	52	2	He	-0.345	-3.454	-3.51	8700	0.00	2000	
Fe	56	2	He	22.531	225.305	1.47	256254	0.01	200000	
Se	78	2	He	0.122	1.223	138.69	167	0.07	2000	
As	75	2	He	0.014	0.136	104.18	357	0.00	2000	
Ca	44	2	He	1590.695	15906.950	2.58	102670	1.55	200000	
Na	23	2	He	18192.815	181928.152	1.28	31835337	0.06	200000	
Mg	24	2	He	864.203	8642.026	1.50	920125	0.09	200000	
K	39	2	He	106.483	1064.826	0.85	250443	0.04	200000	
Mn	55	2	He	20.642	206.421	1.69	175835	0.01	2000	
Co	59	2	He	0.096	0.957	11.61	2410	0.00	2000	
Ni	60	2	He	0.418	4.178	7.71	2240	0.02	2000	
Cu	63	2	He	0.133	1.326	10.43	2294	0.01	2000	
Zn	66	2	He	6.547	65.466	1.58	15149	0.04	2000	
Al	27	2	He	2.315	23.154	18.46	3244	0.07	2000	
B	11	1	No Gas	1.251	12.511	7.61	13910	0.01	2000	
Al	27	1	No Gas	2.563	25.632	11.55	123924	0.00	2000	
Si	28	1	No Gas	2361.573	23615.726	2.26	27894256	0.01	2000	>LDR
Ag	107	1	No Gas	-0.007	-0.075	-7.87	870	0.00	2000	
Cd	111	1	No Gas	0.019	0.191	43.40	128	0.01	2000	
Sr	88	1	No Gas	24.999	249.995	2.22	1631385	0.00	2000	
Mo	95	1	No Gas	0.019	0.186	32.36	420	0.00	2000	
Sn	118	1	No Gas	0.229	2.293	8.80	11338	0.00	2000	
Sb	121	1	No Gas	0.024	0.240	19.52	1250	0.00	2000	
Ba	137	1	No Gas	20.170	201.698	0.64	221401	0.01	2000	
Tl	205	1	No Gas	0.000	0.000	-2182.88	2940	0.00	2000	
Tl	203	1	No Gas	-0.002	-0.022	-109.08	1073	0.00	2000	
Pb	208	1	No Gas	0.007	0.068	15.25	6627	0.00	2000	
U	238	1	No Gas	0.061	0.607	4.63	11012	0.00	2000	
Ca	43	2	He	1648.108	16481.078	3.58	6228	26.46	200000	
Sb	121	2	He	0.016	0.161	39.95	427	0.00	2000	
Ti	47	2	He	0.145	1.451	31.82	70	0.21	2000	
Cu	63	1	No Gas	0.021	0.214	55.26	7209	0.00	2000	
Ca	44	1	No Gas	1618.164	16181.638	1.83	1492926	0.11	200000	
Zn	66	1	No Gas	6.228	62.275	1.58	41526	0.01	2000	
Se	82	1	No Gas	-0.016	-0.157	-1126.35	417	0.00	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1438714	0.39	1676119	85.84	70	120	
Ge	72	2	He	1121471	0.38	1163381	96.40	70	120	
Ge	72	1	No Gas	3917207	0.34	4078799	96.04	70	120	

Sample Report

In	115	1	No Gas	5079107	0.10	5144583	98.73	70	120	
Bi	209	1	No Gas	5322337	0.52	4944446	107.64	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	177SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:43:45-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	53.144	106.289	2.02	1106292	0.00	2000	
Be	9	1	No Gas	24.224	48.449	2.76	120482	0.02	2000	
V	51	2	He	24.028	48.056	1.58	230324	0.01	2000	
Cr	52	2	He	24.165	48.331	2.09	270983	0.01	2000	
Fe	56	2	He	2541.617	5083.235	1.72	25849239	0.01	200000	
Se	78	2	He	25.072	50.144	4.26	3882	0.65	2000	
As	75	2	He	24.496	48.992	1.46	41515	0.06	2000	
Ca	44	2	He	10020.180	20040.361	1.37	621586	1.61	200000	
Na	23	2	He	89736.794	179473.588	1.40	150843014	0.06	200000	
Mg	24	2	He	6588.058	13176.116	2.04	6785336	0.10	200000	
K	39	2	He	2946.774	5893.549	1.25	3602602	0.08	200000	
Mn	55	2	He	119.616	239.232	0.95	982710	0.01	2000	
Co	59	2	He	24.565	49.131	2.01	407299	0.01	2000	
Ni	60	2	He	25.193	50.385	0.99	107360	0.02	2000	
Cu	63	2	He	24.602	49.204	2.67	281711	0.01	2000	
Zn	66	2	He	30.319	60.639	0.51	64729	0.05	2000	
Al	27	2	He	53.602	107.204	2.69	35525	0.15	2000	
B	11	1	No Gas	216.679	433.357	1.43	658207	0.03	2000	
Al	27	1	No Gas	51.452	102.904	2.57	1263022	0.00	2000	
Si	28	1	No Gas	11309.789	22619.577	2.90	128295001	0.01	2000	>LDR
Ag	107	1	No Gas	23.964	47.927	2.22	763984	0.00	2000	
Cd	111	1	No Gas	24.308	48.617	1.75	154512	0.02	2000	
Sr	88	1	No Gas	162.713	325.426	3.03	10241929	0.00	2000	
Mo	95	1	No Gas	23.508	47.015	2.48	284555	0.01	2000	
Sn	118	1	No Gas	42.464	84.928	1.91	889975	0.00	2000	
Sb	121	1	No Gas	25.318	50.636	1.08	693624	0.00	2000	
Ba	137	1	No Gas	121.518	243.036	2.96	1285260	0.01	2000	
Tl	205	1	No Gas	20.220	40.441	2.76	1532825	0.00	2000	
Tl	203	1	No Gas	20.231	40.461	1.75	624509	0.00	2000	
Pb	208	1	No Gas	23.625	47.251	1.33	2451071	0.00	2000	
U	238	1	No Gas	43.656	87.312	0.91	4745844	0.00	2000	
Ca	43	2	He	9982.687	19965.375	2.37	36318	27.49	200000	
Sb	121	2	He	25.598	51.196	1.22	306217	0.01	2000	
Ti	47	2	He	67.596	135.192	0.59	24311	0.28	2000	
Cu	63	1	No Gas	24.876	49.751	2.17	555416	0.00	2000	
Ca	44	1	No Gas	9963.888	19927.777	1.75	8792213	0.11	200000	
Zn	66	1	No Gas	28.548	57.096	0.81	175528	0.02	2000	
Se	82	1	No Gas	24.234	48.467	5.86	9380	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1341212	0.53	1676119	80.02	70	120	
Ge	72	2	He	1085752	0.32	1163381	93.33	70	120	
Ge	72	1	No Gas	3802419	0.30	4078799	93.22	70	120	

Sample Report

In	115	1	No Gas	4909495	1.62	5144583	95.43	70	120	
Bi	209	1	No Gas	5104730	0.73	4944446	103.24	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	178SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:46:13-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	53.272	106.545	1.81	1107681	0.00	2000	
Be	9	1	No Gas	24.081	48.161	1.66	119653	0.02	2000	
V	51	2	He	23.906	47.811	1.92	229339	0.01	2000	
Cr	52	2	He	23.941	47.881	1.93	268773	0.01	2000	
Fe	56	2	He	2513.312	5026.624	1.98	25581056	0.01	200000	
Se	78	2	He	24.770	49.541	0.19	3840	0.65	2000	
As	75	2	He	24.159	48.318	1.67	40978	0.06	2000	
Ca	44	2	He	9926.309	19852.618	2.24	616209	1.61	200000	
Na	23	2	He	89013.439	178026.878	2.03	149733861	0.06	200000	
Mg	24	2	He	6520.049	13040.099	1.54	6720233	0.10	200000	
K	39	2	He	2918.474	5836.948	1.83	3571822	0.08	200000	
Mn	55	2	He	118.746	237.493	2.57	976269	0.01	2000	
Co	59	2	He	24.370	48.740	2.45	404367	0.01	2000	
Ni	60	2	He	25.103	50.205	1.95	107056	0.02	2000	
Cu	63	2	He	24.406	48.812	1.04	279682	0.01	2000	
Zn	66	2	He	28.697	57.394	1.49	61364	0.05	2000	
Al	27	2	He	54.214	108.427	1.14	35943	0.15	2000	
B	11	1	No Gas	217.805	435.611	1.95	660912	0.03	2000	
Al	27	1	No Gas	51.443	102.885	3.51	1266173	0.00	2000	
Si	28	1	No Gas	11297.009	22594.017	3.20	128492805	0.01	2000	>LDR
Ag	107	1	No Gas	23.911	47.822	1.80	764185	0.00	2000	
Cd	111	1	No Gas	24.214	48.428	2.20	154275	0.02	2000	
Sr	88	1	No Gas	162.162	324.325	1.89	10233270	0.00	2000	
Mo	95	1	No Gas	23.417	46.833	1.88	284159	0.01	2000	
Sn	118	1	No Gas	42.754	85.508	1.60	898193	0.00	2000	
Sb	121	1	No Gas	25.574	51.148	2.39	702497	0.00	2000	
Ba	137	1	No Gas	123.291	246.582	2.03	1307308	0.01	2000	
Tl	205	1	No Gas	20.028	40.057	2.11	1538133	0.00	2000	
Tl	203	1	No Gas	20.152	40.305	1.88	630270	0.00	2000	
Pb	208	1	No Gas	23.578	47.156	1.83	2478322	0.00	2000	
U	238	1	No Gas	43.270	86.539	0.85	4765983	0.00	2000	
Ca	43	2	He	10320.470	20640.941	1.72	37571	27.47	200000	
Sb	121	2	He	25.233	50.466	1.81	302069	0.01	2000	
Ti	47	2	He	66.163	132.327	2.25	23817	0.28	2000	
Cu	63	1	No Gas	24.951	49.901	3.00	558560	0.00	2000	
Ca	44	1	No Gas	9912.366	19824.731	3.34	8769989	0.11	200000	
Zn	66	1	No Gas	28.506	57.012	2.84	175743	0.02	2000	
Se	82	1	No Gas	23.735	47.469	4.64	9220	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1339822	0.21	1676119	79.94	70	120	
Ge	72	2	He	1086649	1.03	1163381	93.40	70	120	
Ge	72	1	No Gas	3812922	0.73	4078799	93.48	70	120	

Sample Report

In	115	1	No Gas	4920664	0.49	5144583	95.65	70	120	
Bi	209	1	No Gas	5171875	1.22	4944446	104.60	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	179SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:48:41-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	7.707	15.414	0.96	223574	0.00	2000	
Be	9	1	No Gas	48.157	96.314	1.99	240289	0.02	2000	
V	51	2	He	47.847	95.693	0.86	455329	0.01	2000	
Cr	52	2	He	47.520	95.041	0.99	521399	0.01	2000	
Fe	56	2	He	4968.057	9936.115	0.74	50530004	0.01	200000	
Se	78	2	He	50.017	100.033	2.53	7605	0.66	2000	
As	75	2	He	48.381	96.761	1.88	81718	0.06	2000	
Ca	44	2	He	12105.104	24210.208	1.61	751063	1.61	200000	
Na	23	2	He	90458.522	180917.044	1.52	152113931	0.06	200000	
Mg	24	2	He	8923.691	17847.382	1.44	9195351	0.10	200000	
K	39	2	He	5334.231	10668.461	1.44	6430191	0.08	200000	
Mn	55	2	He	141.918	283.836	0.74	1166289	0.01	2000	
Co	59	2	He	48.584	97.168	1.11	805134	0.01	2000	
Ni	60	2	He	49.806	99.613	0.94	211973	0.02	2000	
Cu	63	2	He	48.379	96.759	1.35	553540	0.01	2000	
Zn	66	2	He	54.581	109.162	1.24	115869	0.05	2000	
Al	27	2	He	52.916	105.832	1.35	35104	0.15	2000	
B	11	1	No Gas	8.152	16.304	4.24	33768	0.02	2000	
Al	27	1	No Gas	51.167	102.334	2.88	1246655	0.00	2000	
Si	28	1	No Gas	11206.201	22412.401	2.82	126141208	0.01	2000	>LDR
Ag	107	1	No Gas	48.865	97.730	1.89	1564980	0.00	2000	
Cd	111	1	No Gas	48.402	96.804	1.52	309261	0.02	2000	
Sr	88	1	No Gas	118.276	236.551	2.31	7485776	0.00	2000	
Mo	95	1	No Gas	46.542	93.084	2.21	566199	0.01	2000	
Sn	118	1	No Gas	0.203	0.405	3.92	10458	0.00	2000	
Sb	121	1	No Gas	49.781	99.561	2.29	1352761	0.00	2000	
Ba	137	1	No Gas	144.825	289.650	2.44	1539824	0.01	2000	
Tl	205	1	No Gas	47.516	95.032	1.20	3621288	0.00	2000	
Tl	203	1	No Gas	47.247	94.494	1.25	1466398	0.00	2000	
Pb	208	1	No Gas	47.325	94.649	1.60	4935674	0.00	2000	
U	238	1	No Gas	0.346	0.693	5.81	41851	0.00	2000	
Ca	43	2	He	11939.673	23879.345	1.25	43445	27.48	200000	
Sb	121	2	He	49.531	99.062	1.83	592570	0.01	2000	
Ti	47	2	He	49.858	99.716	2.09	17942	0.28	2000	
Cu	63	1	No Gas	48.719	97.439	2.03	1073256	0.00	2000	
Ca	44	1	No Gas	12328.855	24657.709	3.08	10788695	0.11	200000	
Zn	66	1	No Gas	52.739	105.479	2.72	319586	0.02	2000	
Se	82	1	No Gas	48.568	97.136	3.97	18249	0.27	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1346434	0.16	1676119	80.33	70	120	
Ge	72	2	He	1086243	0.95	1163381	93.37	70	120	
Ge	72	1	No Gas	3773611	1.10	4078799	92.52	70	120	

Sample Report

In	115	1	No Gas	4934465	0.27	5144583	95.92	70	120	
Bi	209	1	No Gas	5137205	0.94	4944446	103.90	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	184_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:07:53-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.017	1.230	1916848	1.37	100	96.0	90	110	
Be	9	1	No Gas	103.294	1.737	507031	1.93	100	103.3	90	110	
V	51	2	He	99.303	3.015	939239	2.28	100	99.3	90	110	
Cr	52	2	He	99.183	3.025	1072808	2.22	100	99.2	90	110	
Fe	56	2	He	9483.686	3.124	96237739	2.27	10000	94.8	90	110	
Se	78	2	He	100.185	4.083	15057	3.47	100	100.2	90	110	
As	75	2	He	99.555	2.648	167462	2.11	100	99.6	90	110	
Ca	44	2	He	9154.792	2.976	567048	2.40	10000	91.5	90	110	
Na	23	2	He	9309.643	2.194	15892682	1.47	10000	93.1	90	110	
Mg	24	2	He	9412.361	2.554	9677968	1.90	10000	94.1	90	110	
K	39	2	He	9373.544	1.865	11187793	1.33	10000	93.7	90	110	
Mn	55	2	He	98.550	2.482	808442	1.66	100	98.5	90	110	
Co	59	2	He	101.235	2.673	1673344	1.81	100	101.2	90	110	
Ni	60	2	He	101.102	3.224	428951	2.52	100	101.1	90	110	
Cu	63	2	He	101.894	2.934	1162574	2.07	100	101.9	90	110	
Zn	66	2	He	101.532	1.629	214358	1.14	100	101.5	90	110	
Al	27	2	He	98.829	2.901	63982	2.55	100	98.8	90	110	
B	11	1	No Gas	467.334	1.227	1392117	1.38	500	93.5	90	110	
Al	27	1	No Gas	96.751	1.907	2296660	2.16	100	96.8	90	110	
Si	28	1	No Gas	469.520	1.859	5611497	1.95	5000	9.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.909	0.626	3215092	1.32	100	100.9	90	110	
Cd	111	1	No Gas	102.062	1.566	648988	2.02	100	102.1	90	110	
Sr	88	1	No Gas	99.672	0.722	6278345	1.01	100	99.7	90	110	
Mo	95	1	No Gas	96.890	1.434	1172814	1.61	100	96.9	90	110	
Sn	118	1	No Gas	103.093	1.301	2152715	1.59	100	103.1	90	110	
Sb	121	1	No Gas	109.418	1.271	2963088	1.25	100	109.4	90	110	
Ba	137	1	No Gas	102.416	1.799	1083950	2.39	100	102.4	90	110	
Tl	205	1	No Gas	105.634	1.386	8196864	1.96	100	105.6	90	110	
Tl	203	1	No Gas	105.059	1.254	3319909	1.73	100	105.1	90	110	
Pb	208	1	No Gas	101.583	1.333	10785257	2.13	100	101.6	90	110	
U	238	1	No Gas	96.961	1.189	10800357	1.49	100	97.0	90	110	
Ca	43	2	He	9235.717	3.166	33544	2.09	10000	92.4	90	110	
Sb	121	2	He	105.920	1.797	1264372	1.28	100	105.9	90	110	
Ti	47	2	He	98.635	2.630	35412	2.25	100	98.6	90	110	
Cu	63	1	No Gas	101.563	1.616	2223150	1.95	100	101.6	90	110	
Se	82	1	No Gas	103.576	0.829	38328	0.83	100	103.6	90	110	
Zr	90	1	No Gas	50.669	0.899	1994807	1.22	100	50.7	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.148	2.327	791124	1.53	100	51.1	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1325117	0.65	1676119	79.06	70	120	
Ge	72	2	He	1084144	1.09	1163381	93.19	70	120	
Ge	72	1	No Gas	3760875	0.52	4078799	92.21	70	120	
In	115	1	No Gas	4910483	0.87	5144583	95.45	70	120	
Bi	209	1	No Gas	5232986	0.94	4944446	105.84	70	120	

Sample Report

Sample Table

Sample Name	HS24060795-03
Data File Name	188SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:25:20-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.294	25.884	2.09	104056	0.00	2000	
Be	9	1	No Gas	0.013	0.264	79.13	265	0.00	2000	
V	51	2	He	0.064	1.272	21.21	4173	0.00	2000	
Cr	52	2	He	20.948	418.970	2.53	238549	0.01	2000	
Fe	56	2	He	368.513	7370.261	1.84	3796404	0.01	200000	
Se	78	2	He	0.047	0.939	114.14	151	0.03	2000	
As	75	2	He	0.018	0.367	103.46	357	0.01	2000	
Ca	44	2	He	2961.353	59227.052	0.46	185910	1.59	200000	
Na	23	2	He	20617.121	412342.423	1.32	35188941	0.06	200000	
Mg	24	2	He	1254.009	25080.179	1.01	1303400	0.10	200000	
K	39	2	He	103.066	2061.322	3.33	240484	0.04	200000	
Mn	55	2	He	3.872	77.437	1.69	32843	0.01	2000	
Co	59	2	He	0.252	5.043	4.96	4968	0.01	2000	
Ni	60	2	He	26.771	535.413	1.04	115044	0.02	2000	
Cu	63	2	He	0.808	16.161	4.49	10020	0.01	2000	
Zn	66	2	He	0.409	8.172	14.33	1757	0.02	2000	
Al	27	2	He	0.176	3.524	116.92	1804	0.01	2000	
B	11	1	No Gas	0.908	18.162	10.15	12679	0.01	2000	
Al	27	1	No Gas	0.247	4.941	107.50	66708	0.00	2000	
Si	28	1	No Gas	959.948	19198.964	1.46	11314346	0.01	2000	
Ag	107	1	No Gas	0.000	-0.009	-148.88	1080	0.00	2000	
Cd	111	1	No Gas	0.019	0.380	5.11	124	0.02	2000	
Sr	88	1	No Gas	58.040	1160.795	1.75	3711590	0.00	2000	
Mo	95	1	No Gas	1.604	32.073	1.38	19882	0.01	2000	
Sn	118	1	No Gas	-0.036	-0.726	-8.03	5511	0.00	2000	
Sb	121	1	No Gas	0.042	0.833	15.35	1710	0.00	2000	
Ba	137	1	No Gas	36.134	722.672	1.91	388554	0.01	2000	
Tl	205	1	No Gas	0.009	0.189	13.78	3634	0.00	2000	
Tl	203	1	No Gas	0.011	0.225	38.98	1483	0.00	2000	
Pb	208	1	No Gas	0.012	0.239	26.64	7071	0.00	2000	
U	238	1	No Gas	0.077	1.549	1.78	12707	0.00	2000	
Ca	43	2	He	3005.938	60118.767	0.85	11058	27.18	200000	
Sb	121	2	He	0.046	0.914	6.25	773	0.01	2000	
Ti	47	2	He	0.095	1.894	101.18	50	0.19	2000	
Cu	63	1	No Gas	0.702	14.038	2.16	22198	0.00	2000	
Ca	44	1	No Gas	2951.645	59032.904	1.36	2644239	0.11	200000	
Zn	66	1	No Gas	0.365	7.301	8.60	4834	0.01	2000	
Se	82	1	No Gas	-0.304	-6.084	-39.10	300	-0.10	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1424251	0.46	1676119	84.97	70	120	
Ge	72	2	He	1095188	1.49	1163381	94.14	70	120	
Ge	72	1	No Gas	3833870	0.39	4078799	94.00	70	120	

Sample Report

In	115	1	No Gas	4983341	0.78	5144583	96.87	70	120	
Bi	209	1	No Gas	5240239	0.94	4944446	105.98	70	120	

Sample Report

Sample Table

Sample Name	HS24060795-04
Data File Name	189SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:27:44-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.121	22.416	0.69	99776	0.00	2000	
Be	9	1	No Gas	0.011	0.214	37.28	250	0.00	2000	
V	51	2	He	0.021	0.415	76.74	3767	0.00	2000	
Cr	52	2	He	19.845	396.905	0.80	226824	0.01	2000	
Fe	56	2	He	356.615	7132.309	1.74	3677357	0.01	200000	
Se	78	2	He	0.010	0.193	1151.02	146	0.01	2000	
As	75	2	He	0.020	0.390	51.03	359	0.01	2000	
Ca	44	2	He	2587.742	51754.834	3.36	162649	1.59	200000	
Na	23	2	He	18122.935	362458.708	1.14	30994190	0.06	200000	
Mg	24	2	He	1088.085	21761.693	1.24	1131968	0.10	200000	
K	39	2	He	88.751	1775.022	3.92	223549	0.04	200000	
Mn	55	2	He	3.340	66.810	1.48	28466	0.01	2000	
Co	59	2	He	0.237	4.733	1.47	4711	0.01	2000	
Ni	60	2	He	23.205	464.090	1.22	99850	0.02	2000	
Cu	63	2	He	0.790	15.792	2.05	9817	0.01	2000	
Zn	66	2	He	0.337	6.741	22.61	1603	0.02	2000	
Al	27	2	He	0.299	5.979	53.48	1883	0.02	2000	
B	11	1	No Gas	0.641	12.827	31.00	11747	0.01	2000	
Al	27	1	No Gas	0.370	7.395	89.57	69284	0.00	2000	
Si	28	1	No Gas	842.567	16851.346	3.65	9925576	0.01	2000	
Ag	107	1	No Gas	-0.004	-0.089	-55.10	953	0.00	2000	
Cd	111	1	No Gas	0.017	0.339	19.69	111	0.02	2000	
Sr	88	1	No Gas	50.857	1017.149	2.32	3258363	0.00	2000	
Mo	95	1	No Gas	1.402	28.046	5.05	17438	0.01	2000	
Sn	118	1	No Gas	-0.037	-0.746	-68.40	5498	0.00	2000	
Sb	121	1	No Gas	0.038	0.768	5.75	1613	0.00	2000	
Ba	137	1	No Gas	31.790	635.799	2.89	342530	0.01	2000	
Tl	205	1	No Gas	0.008	0.160	62.97	3554	0.00	2000	
Tl	203	1	No Gas	0.011	0.210	24.44	1473	0.00	2000	
Pb	208	1	No Gas	0.013	0.267	41.89	7288	0.00	2000	
U	238	1	No Gas	0.072	1.440	1.46	12213	0.00	2000	
Ca	43	2	He	2708.281	54165.623	7.87	9980	27.14	200000	
Sb	121	2	He	0.042	0.836	16.78	727	0.01	2000	
Ti	47	2	He	0.084	1.681	129.87	47	0.18	2000	
Cu	63	1	No Gas	0.706	14.124	1.01	22185	0.00	2000	
Ca	44	1	No Gas	2562.582	51251.646	2.50	2287679	0.11	200000	
Zn	66	1	No Gas	0.348	6.953	8.57	4704	0.01	2000	
Se	82	1	No Gas	-0.274	-5.480	-33.50	310	-0.09	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1414341	0.35	1676119	84.38	70	120	
Ge	72	2	He	1096047	1.68	1163381	94.21	70	120	
Ge	72	1	No Gas	3815387	0.69	4078799	93.54	70	120	

Sample Report

In	115	1	No Gas	4992514	0.74	5144583	97.04	70	120	
Bi	209	1	No Gas	5289227	1.17	4944446	106.97	70	120	

Sample Report

Sample Table

Sample Name	HS24060795-07
Data File Name	190SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:30:08-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.495	49.897	2.14	126331	0.00	2000	
Be	9	1	No Gas	0.019	0.375	35.23	288	0.01	2000	
V	51	2	He	-0.013	-0.267	-20.46	3439	0.00	2000	
Cr	52	2	He	9.286	185.717	2.26	112545	0.01	2000	
Fe	56	2	He	297.397	5947.943	2.56	3067387	0.01	200000	
Se	78	2	He	0.056	1.111	35.60	153	0.04	2000	
As	75	2	He	-0.001	-0.023	-2206.36	323	0.00	2000	
Ca	44	2	He	5041.471	100829.425	1.50	315827	1.60	200000	
Na	23	2	He	18666.042	373320.831	2.35	31883908	0.06	200000	
Mg	24	2	He	3996.756	79935.111	2.26	4151783	0.10	200000	
K	39	2	He	79.177	1583.543	1.89	211957	0.04	200000	
Mn	55	2	He	47.983	959.656	2.48	398029	0.01	2000	
Co	59	2	He	1.753	35.065	3.36	30016	0.01	2000	
Ni	60	2	He	38.147	762.938	1.17	163746	0.02	2000	
Cu	63	2	He	0.998	19.961	3.03	12209	0.01	2000	
Zn	66	2	He	1.045	20.899	4.71	3107	0.03	2000	
Al	27	2	He	-0.149	-2.988	-145.80	1597	-0.01	2000	
B	11	1	No Gas	0.220	4.404	41.14	10285	0.00	2000	
Al	27	1	No Gas	-0.028	-0.562	-584.25	59479	0.00	2000	
Si	28	1	No Gas	1180.702	23614.040	2.92	13664909	0.01	2000	
Ag	107	1	No Gas	-0.005	-0.095	-72.00	937	0.00	2000	
Cd	111	1	No Gas	0.034	0.672	11.88	218	0.02	2000	
Sr	88	1	No Gas	101.060	2021.210	2.41	6433668	0.00	2000	
Mo	95	1	No Gas	0.453	9.064	3.90	5728	0.01	2000	
Sn	118	1	No Gas	-0.053	-1.057	-36.21	5141	0.00	2000	
Sb	121	1	No Gas	0.021	0.410	28.13	1113	0.00	2000	
Ba	137	1	No Gas	169.260	3385.196	2.79	1809852	0.01	2000	
Tl	205	1	No Gas	0.009	0.178	53.48	3614	0.00	2000	
Tl	203	1	No Gas	0.009	0.188	44.87	1433	0.00	2000	
Pb	208	1	No Gas	0.015	0.306	5.69	7468	0.00	2000	
U	238	1	No Gas	0.021	0.418	24.20	6445	0.00	2000	
Ca	43	2	He	5218.985	104379.692	1.09	19167	27.23	200000	
Sb	121	2	He	0.020	0.410	31.69	470	0.00	2000	
Ti	47	2	He	0.122	2.440	81.29	60	0.20	2000	
Cu	63	1	No Gas	0.933	18.652	6.57	26997	0.00	2000	
Ca	44	1	No Gas	5127.125	102542.494	2.77	4518974	0.11	200000	
Zn	66	1	No Gas	0.945	18.910	1.41	8279	0.01	2000	
Se	82	1	No Gas	-0.330	-6.593	-73.37	287	-0.11	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1396361	0.42	1676119	83.31	70	120	
Ge	72	2	He	1094996	0.23	1163381	94.12	70	120	
Ge	72	1	No Gas	3788149	0.84	4078799	92.87	70	120	

Sample Report

In	115	1	No Gas	4963078	0.54	5144583	96.47	70	120	
Bi	209	1	No Gas	5272961	1.36	4944446	106.64	70	120	

Sample Report

Sample Table

Sample Name	HS24060795-08
Data File Name	191SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:32:33-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	26.795	535.909	1.15	625382	0.00	2000	
Be	9	1	No Gas	0.007	0.139	137.58	230	0.00	2000	
V	51	2	He	0.027	0.533	86.37	3866	0.00	2000	
Cr	52	2	He	3.494	69.883	3.29	50569	0.01	2000	
Fe	56	2	He	4.173	83.463	4.23	62797	0.01	200000	
Se	78	2	He	0.052	1.042	142.40	154	0.03	2000	
As	75	2	He	0.056	1.112	60.22	424	0.01	2000	
Ca	44	2	He	3034.974	60699.489	1.20	192751	1.57	200000	
Na	23	2	He	16736.265	334725.310	1.61	28960713	0.06	200000	
Mg	24	2	He	35.465	709.293	4.20	38125	0.09	200000	
K	39	2	He	16115.128	322302.568	1.65	19575011	0.08	200000	
Mn	55	2	He	0.816	16.317	2.13	7629	0.01	2000	
Co	59	2	He	0.012	0.239	13.36	967	0.00	2000	
Ni	60	2	He	0.091	1.815	19.42	797	0.01	2000	
Cu	63	2	He	0.045	0.904	29.11	1247	0.00	2000	
Zn	66	2	He	0.663	13.260	5.57	2324	0.03	2000	
Al	27	2	He	7.013	140.259	8.15	6231	0.11	2000	
B	11	1	No Gas	3.578	71.560	4.89	20992	0.02	2000	
Al	27	1	No Gas	6.880	137.598	5.05	221864	0.00	2000	
Si	28	1	No Gas	368.417	7368.347	3.29	4543517	0.01	2000	
Ag	107	1	No Gas	-0.007	-0.143	-60.33	863	0.00	2000	
Cd	111	1	No Gas	0.014	0.271	61.07	89	0.02	2000	
Sr	88	1	No Gas	191.254	3825.083	2.38	12220560	0.00	2000	
Mo	95	1	No Gas	0.168	3.359	3.41	2247	0.01	2000	
Sn	118	1	No Gas	-0.044	-0.884	-26.96	5345	0.00	2000	
Sb	121	1	No Gas	0.022	0.444	11.43	1167	0.00	2000	
Ba	137	1	No Gas	15.372	307.432	3.81	165690	0.01	2000	
Tl	205	1	No Gas	0.010	0.194	12.66	3647	0.00	2000	
Tl	203	1	No Gas	0.011	0.212	33.64	1460	0.00	2000	
Pb	208	1	No Gas	0.012	0.238	22.89	7058	0.00	2000	
U	238	1	No Gas	0.012	0.235	17.07	5375	0.00	2000	
Ca	43	2	He	3314.757	66295.138	2.68	12336	26.87	200000	
Sb	121	2	He	0.018	0.368	10.92	450	0.00	2000	
Ti	47	2	He	0.002	0.044	1922.30	17	0.01	2000	
Cu	63	1	No Gas	-0.047	-0.933	-15.16	5515	0.00	2000	
Ca	44	1	No Gas	2821.623	56432.461	3.40	2515691	0.11	200000	
Zn	66	1	No Gas	0.613	12.254	8.85	6315	0.01	2000	
Se	82	1	No Gas	-0.156	-3.130	-46.38	353	-0.04	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1412177	0.64	1676119	84.25	70	120	
Ge	72	2	He	1108093	0.60	1163381	95.25	70	120	
Ge	72	1	No Gas	3814631	0.81	4078799	93.52	70	120	

Sample Report

In	115	1	No Gas	4982583	0.31	5144583	96.85	70	120	
Bi	209	1	No Gas	5236293	1.53	4944446	105.90	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	193_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:37:20-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.602	2.103	1909078	2.61	100	96.6	90	110	
Be	9	1	No Gas	104.158	2.177	506221	2.64	100	104.2	90	110	
V	51	2	He	100.930	2.027	934733	2.43	100	100.9	90	110	
Cr	52	2	He	100.437	2.591	1063668	3.02	100	100.4	90	110	
Fe	56	2	He	9568.008	1.937	95074682	2.15	10000	95.7	90	110	
Se	78	2	He	101.762	1.790	14974	2.28	100	101.8	90	110	
As	75	2	He	100.750	2.907	165949	3.45	100	100.8	90	110	
Ca	44	2	He	9359.178	1.785	567617	2.12	10000	93.6	90	110	
Na	23	2	He	9486.946	1.363	15851834	1.56	10000	94.9	90	110	
Mg	24	2	He	9538.159	1.762	9603041	2.11	10000	95.4	90	110	
K	39	2	He	9502.388	1.830	11103335	2.16	10000	95.0	90	110	
Mn	55	2	He	99.679	2.197	800658	2.31	100	99.7	90	110	
Co	59	2	He	102.304	2.384	1655774	2.47	100	102.3	90	110	
Ni	60	2	He	102.102	2.380	424166	2.41	100	102.1	90	110	
Cu	63	2	He	102.677	2.137	1147124	2.26	100	102.7	90	110	
Zn	66	2	He	101.864	1.820	210563	2.08	100	101.9	90	110	
Al	27	2	He	99.134	1.063	62836	1.80	100	99.1	90	110	
B	11	1	No Gas	470.612	1.729	1387899	1.86	500	94.1	90	110	
Al	27	1	No Gas	98.101	1.386	2300673	2.31	100	98.1	90	110	
Si	28	1	No Gas	470.960	0.948	5561782	1.84	5000	9.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.744	0.994	3190048	1.28	100	100.7	90	110	
Cd	111	1	No Gas	102.609	1.454	648436	1.74	100	102.6	90	110	
Sr	88	1	No Gas	99.806	1.346	6248242	1.61	100	99.8	90	110	
Mo	95	1	No Gas	96.513	0.925	1161073	1.21	100	96.5	90	110	
Sn	118	1	No Gas	103.381	1.292	2145441	1.57	100	103.4	90	110	
Sb	121	1	No Gas	110.361	0.695	2953699	1.64	100	110.4	90	110	CCV Main CR1-2 Failed
Ba	137	1	No Gas	102.687	1.180	1080074	1.45	100	102.7	90	110	
Tl	205	1	No Gas	105.725	1.540	8145606	1.04	100	105.7	90	110	
Tl	203	1	No Gas	105.585	1.212	3312940	0.84	100	105.6	90	110	
Pb	208	1	No Gas	101.885	0.425	10740764	0.65	100	101.9	90	110	
U	238	1	No Gas	96.537	1.274	10677588	1.31	100	96.5	90	110	
Ca	43	2	He	9330.908	0.588	33186	1.28	10000	93.3	90	110	
Sb	121	2	He	107.320	1.517	1254324	1.75	100	107.3	90	110	
Ti	47	2	He	100.240	1.359	35238	2.01	100	100.2	90	110	
Cu	63	1	No Gas	102.464	1.398	2216618	2.33	100	102.5	90	110	
Se	82	1	No Gas	106.011	1.163	38762	2.13	100	106.0	90	110	
Zr	90	1	No Gas	50.778	0.817	1986786	1.07	100	50.8	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	52.349	2.020	792799	2.25	100	52.3	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1311975	0.92	1676119	78.27	70	120	
Ge	72	2	He	1061393	0.77	1163381	91.23	70	120	
Ge	72	1	No Gas	3716739	0.98	4078799	91.12	70	120	
In	115	1	No Gas	4880196	0.29	5144583	94.86	70	120	
Bi	209	1	No Gas	5196400	1.07	4944446	105.10	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	194_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:39:44-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.156	6.9	78263	0.1	0.5	
Be	9	1	No Gas	0.096	31.0	682	22.5	0.5	
V	51	2	He	-0.143	-6.6	2182	3.8	2.5	
Cr	52	2	He	-0.459	-2.7	7205	2.2	2.5	
Fe	56	2	He	5.307	4.9	73013	3.8	100	
Se	78	2	He	0.141	22.8	164	3.2	2	
As	75	2	He	0.026	33.1	367	3.6	2.5	
Ca	44	2	He	10.378	29.3	1500	12.2	100	
Na	23	2	He	-62.126	-0.1	196166	1.0	100	
Mg	24	2	He	5.505	6.7	6498	5.3	100	
K	39	2	He	1.095	31.7	117740	1.0	100	
Mn	55	2	He	0.249	17.7	2824	12.7	2.5	
Co	59	2	He	0.041	13.8	1427	5.6	2.5	
Ni	60	2	He	0.110	20.1	863	11.4	2.5	
Cu	63	2	He	0.102	12.1	1873	7.8	2	
Zn	66	2	He	0.795	1.8	2554	1.9	2.5	
Al	27	2	He	-0.641	-33.2	1273	11.3	5	
B	11	1	No Gas	2.721	20.7	17921	9.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.593	-13.2	46069	3.6	5	
Si	28	1	No Gas	0.086	762.3	359504	1.7	10	
Ag	107	1	No Gas	0.059	44.0	2977	27.9	2.5	
Cd	111	1	No Gas	0.090	44.6	581	44.3	1	
Sr	88	1	No Gas	0.122	31.9	11095	22.4	2.5	
Mo	95	1	No Gas	0.159	8.3	2127	7.8	2.5	
Sn	118	1	No Gas	0.120	16.0	8780	4.4	5	
Sb	121	1	No Gas	0.107	28.0	3447	23.1	2.5	
Ba	137	1	No Gas	0.145	23.7	2290	16.3	2.5	
Tl	205	1	No Gas	0.103	29.9	11042	22.8	1	
Tl	203	1	No Gas	0.111	31.9	4708	25.0	1	
Pb	208	1	No Gas	0.089	27.7	15424	18.0	2.5	
U	238	1	No Gas	0.081	27.8	13288	20.0	2.5	
Ca	43	2	He	15.535	52.5	97	29.9	100	
Sb	121	2	He	0.058	9.2	920	7.8	2.5	
Ti	47	2	He	0.040	119.9	30	57.7	2.5	
Cu	63	1	No Gas	-0.068	-32.0	4971	9.1	2.5	
Se	82	1	No Gas	-0.135	-40.8	357	5.8	2	
Zr	90	1	No Gas	0.077	27.5	4341	19.8	2.5	
Zr	90	2	He	0.041	26.7	2314	7.7	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1383746	0.17	1676119	82.56	70	120	
Ge	72	2	He	1085236	0.98	1163381	93.28	70	120	
Ge	72	1	No Gas	3765611	0.52	4078799	92.32	70	120	

Continuing Calibration Blank (CCB) Report

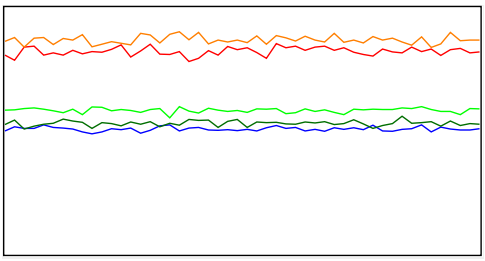
In	115	1	No Gas	4960361	0.55	5144583	96.42	70	120	
Bi	209	1	No Gas	5299915	0.82	4944446	107.19	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq. Date-Time	6/25/2024 9:15:11 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	8229	82290.73		
24	50000	29188	291881.17		
59	100000	50763	507626.89		
115	100000	86958	869579.47		
208	100000	53101	531012.52		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.037	5.000	
24	1.594	5.000	
59	1.685	5.000	
115	1.884	5.000	
208	2.024	5.000	

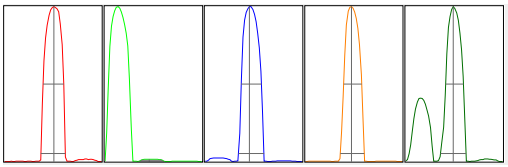
Mass	Background	Background (Required)	Background (Flag)
9	1.200		
24	3.400		
59	1.100		
115	1.700		
208	4.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.066 %
Doubly Charged	70 / 140 1.008 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	8414.64	9.05	8.90 - 9.10	
24	29368.60	23.90	23.90 - 24.10	
59	51640.05	58.90	58.90 - 59.10	
115	87898.89	114.95	114.90 - 115.10	
208	53310.84	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.742		
24	0.66	0.747		
59	0.62	0.779		
115	0.55	0.732		
208	0.55	0.780		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

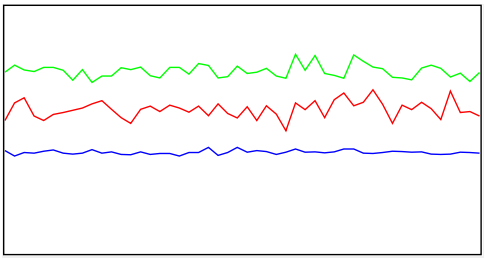
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	500	292	2915.10		
24	2000	1477	14773.28		
59	50000	20440	204403.23		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

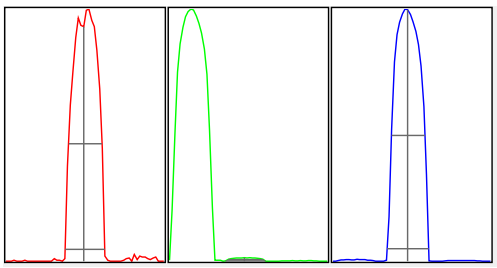
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	5.890	5.000	Fail
24	3.603	5.000	
59	1.911	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.900		
24	0.700		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.394 %
Doubly Charged	70 / 140 0.828 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	282.79	9.00	8.90 - 9.10	
24	1482.83	23.95	23.90 - 24.10	
59	20564.08	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.742		
24	0.66	0.746		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.779		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

EM

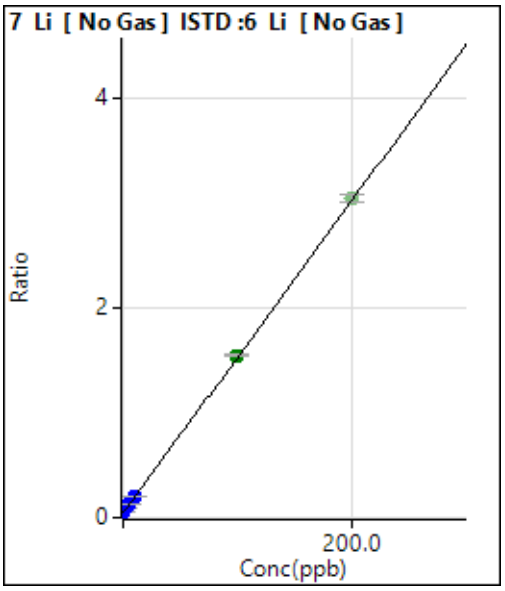
Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Calibration for 140_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	133CALB.d	CAL BLK	6/26/2024 4:47:01 PM
2	134CALS.d	2/10/200	6/26/2024 4:49:32 PM
3	135CALS.d	5/25/500	6/26/2024 4:52:02 PM
4	136CALS.d	10/50/100	6/26/2024 4:54:32 PM
5	137CALS.d	100/500/10K	6/26/2024 4:57:02 PM
6	138CALS.d	200/1000/20K	6/26/2024 4:59:31 PM

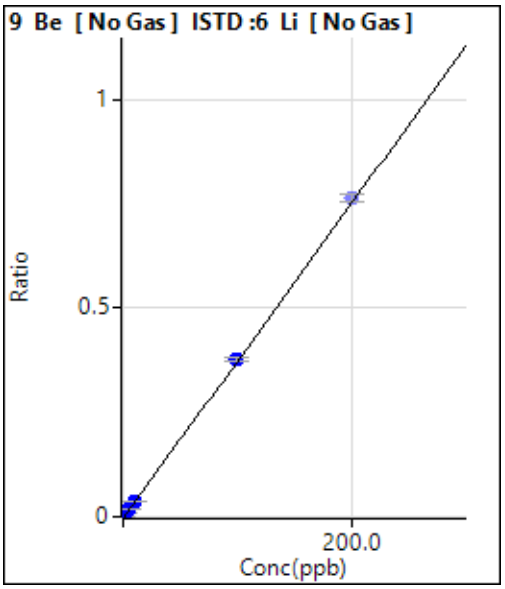
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59739.42	0.0586	P	0.5	
2	☐	2.000	1.849	86936.29	0.0861	P	1.2	-7.5
3	☐	5.000	4.802	129606.31	0.1300	P	1.8	-4.0
4	☐	10.000	9.750	200285.92	0.2036	P	1.3	-2.5
5	☐	100.000	100.038	1414536.59	1.5463	A	1.5	0.0
6	☑	200.000		2653793.29	3.0422	A	1.8	

y = 0.0149 * x + 0.0586
R = 1.0000
DL = 0.05751 ppb
BEC = 3.938 ppb

Weight: <None>
Min Conc: <None>

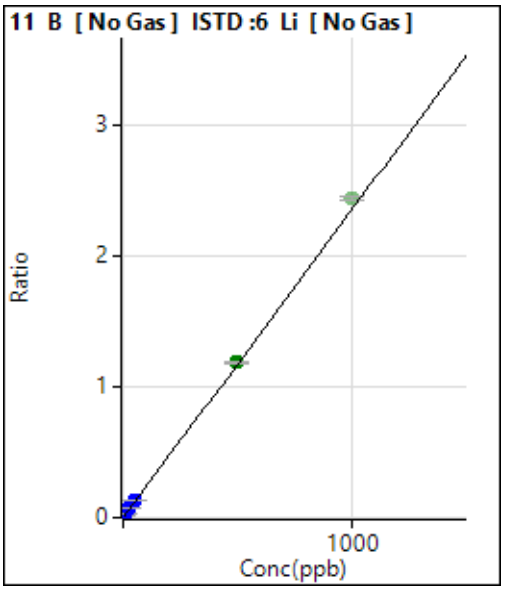


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	88.33	0.0001	P	13.1	
2	☐	2.000	1.828	7055.14	0.0070	P	1.0	-8.6
3	☐	5.000	4.820	18225.08	0.0183	P	4.3	-3.6
4	☐	10.000	9.782	36411.44	0.0370	P	0.4	-2.2
5	☐	100.000	100.034	345473.25	0.3776	P	2.1	0.0
6	☑	200.000		666285.16	0.7638	P	2.3	

y = 0.0038 * x + 8.6598E-005
R = 1.0000
DL = 0.008996 ppb
BEC = 0.02294 ppb

Weight: <None>
Min Conc: <None>

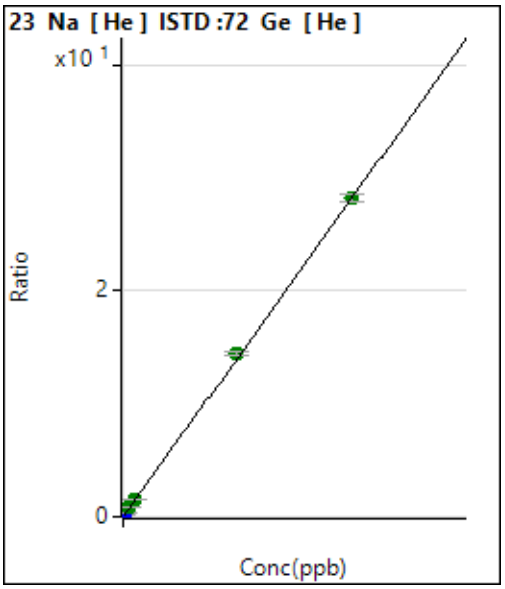
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12960.97	0.0127	P	2.0	
2	☐	10.000	9.617	35709.72	0.0354	P	1.1	-3.8
3	☐	25.000	23.824	68611.09	0.0688	P	1.0	-4.7
4	☐	50.000	48.860	125691.89	0.1278	P	3.2	-2.3
5	☐	500.000	500.180	1089085.66	1.1905	A	1.2	0.0
6	☑	1000.000		2132865.70	2.4450	A	1.3	

y = 0.0024 * x + 0.0127
R = 1.0000
DL = 0.3315 ppb
BEC = 5.396 ppb

Weight: <None>
Min Conc: <None>

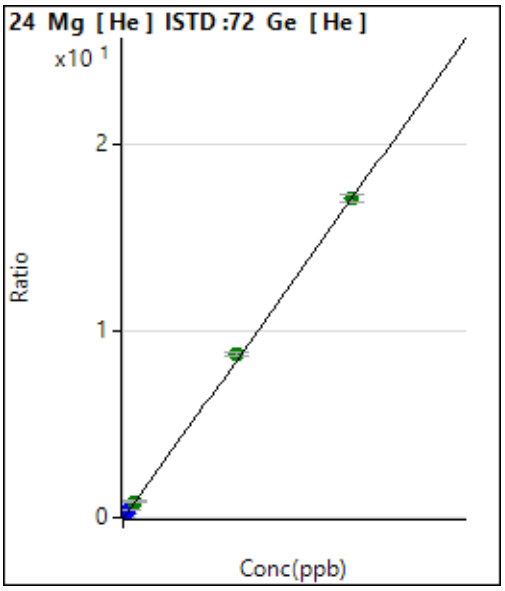


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146783.30	0.1396	P	1.4	
2	☐	200.000	177.705	408291.71	0.3899	P	1.8	-11.1
3	☐	500.000	483.339	848457.20	0.8205	A	1.3	-3.3
4	☐	1000.000	1003.641	1585793.26	1.5534	A	1.3	0.4
5	☐	10000.00	10151.20	14003940.63	14.4393	A	1.8	1.5
6	☐	20000.00	19924.85	27350490.43	28.2072	A	2.4	-0.4

y = 0.0014 * x + 0.1396
R = 1.0000
DL = 4.253 ppb
BEC = 99.11 ppb

Weight: <None>
Min Conc: <None>

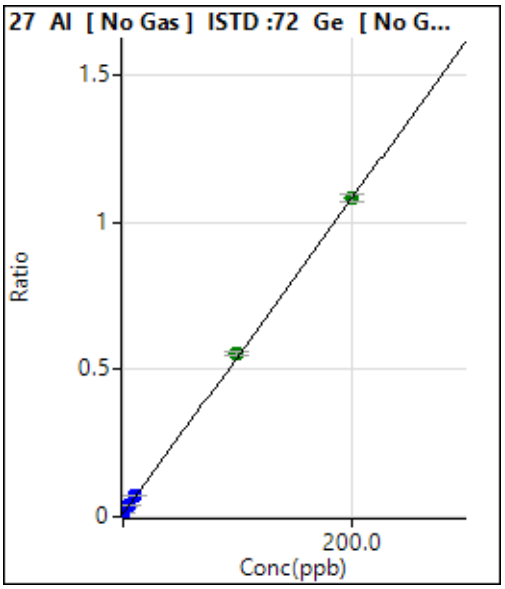
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8726.18	0.0083	P	4.3	
2	☐	200.000	182.984	173615.92	0.1658	P	3.1	-8.5
3	☐	500.000	481.677	437267.96	0.4229	P	1.5	-3.7
4	☐	1000.000	1007.165	893387.10	0.8751	A	1.6	0.7
5	☐	10000.00	10166.53	8494172.37	8.7582	A	2.0	1.7
6	☐	20000.00	19917.00	16628555.59	17.1499	A	2.8	-0.4

y = 8.6065E-004 * x + 0.0083
R = 0.9999
DL = 1.246 ppb
BEC = 9.644 ppb

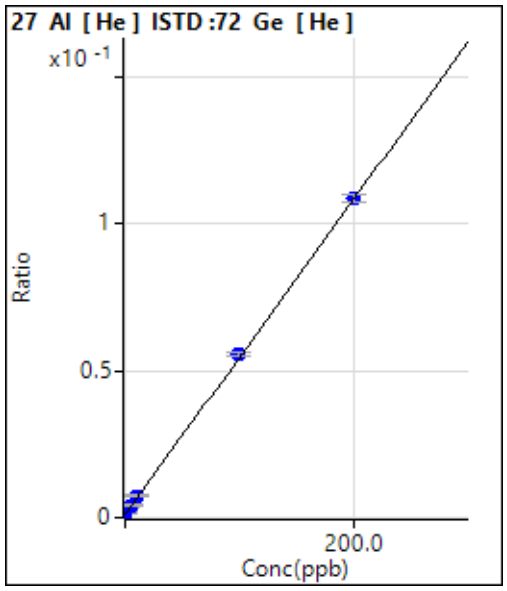
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55051.69	0.0151	P	1.8	
2	☐	2.000	3.282	118462.80	0.0327	P	1.6	64.1
3	☐	5.000	5.039	150024.81	0.0421	P	0.7	0.8
4	☐	10.000	10.635	253416.03	0.0720	P	2.2	6.3
5	☐	100.000	100.929	1885819.87	0.5553	A	2.1	0.9
6	☐	200.000	199.490	3588785.05	1.0828	A	2.8	-0.3

y = 0.0054 * x + 0.0151
R = 1.0000
DL = 0.1551 ppb
BEC = 2.821 ppb

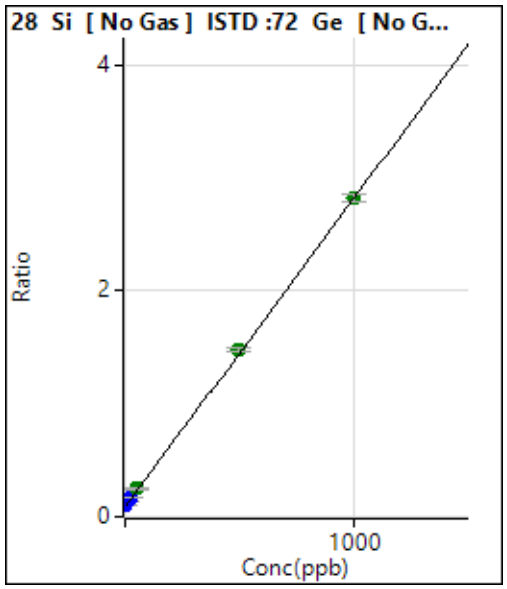
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1680.13	0.0016	P	10.2	
2	☐	2.000	2.991	3350.45	0.0032	P	2.8	49.6
3	☐	5.000	4.926	4380.76	0.0042	P	1.2	-1.5
4	☐	10.000	10.519	7385.39	0.0072	P	7.9	5.2
5	☐	100.000	100.622	53829.69	0.0555	P	2.8	0.6
6	☐	200.000	199.655	105254.43	0.1085	P	2.1	-0.2

y = 5.3567E-004 * x + 0.0016
R = 1.0000
DL = 0.9129 ppb
BEC = 2.983 ppb

Weight: <None>
Min Conc: <None>

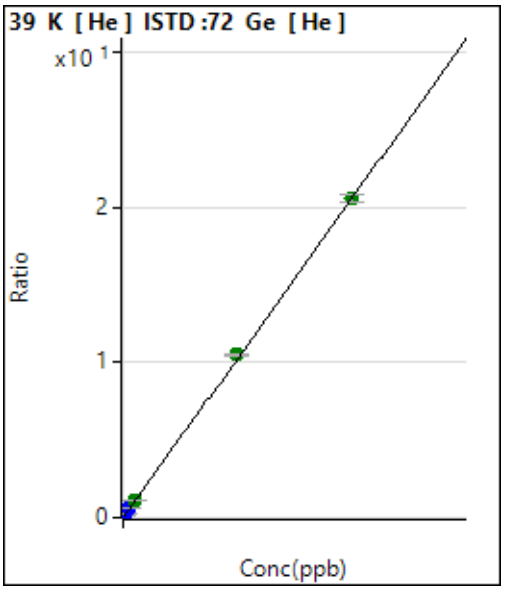


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	368920.63	0.1012	P	1.1	
2	☐	10.000	11.991	485632.29	0.1339	P	0.6	19.9
3	☐	25.000	26.152	615457.02	0.1726	P	1.0	4.6
4	☐	50.000	54.305	877776.08	0.2494	A	2.6	8.6
5	☐	500.000	504.971	5025941.59	1.4799	A	2.3	1.0
6	☐	1000.000	997.250	9359982.99	2.8239	A	2.3	-0.3

y = 0.0027 * x + 0.1012
R = 1.0000
DL = 1.206 ppb
BEC = 37.06 ppb

Weight: <None>
Min Conc: <None>

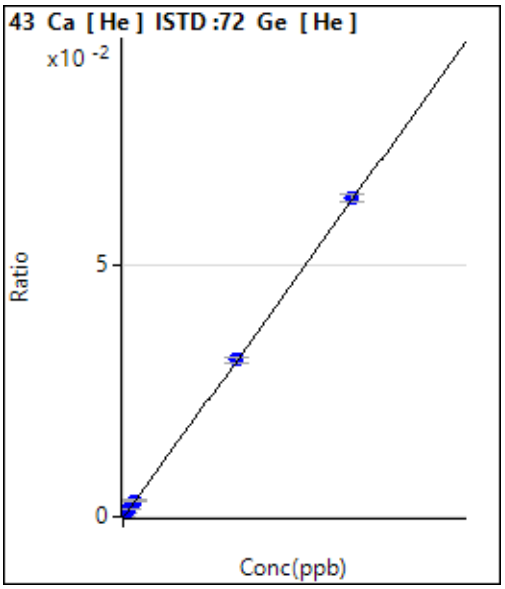
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101288.72	0.0963	P	1.3	
2	☐	200.000	181.230	296313.44	0.2830	P	1.4	-9.4
3	☐	500.000	482.962	613955.67	0.5937	P	1.4	-3.4
4	☐	1000.000	1003.062	1152885.14	1.1293	A	1.2	0.3
5	☐	10000.00	10146.94	10228327.56	10.5460	A	1.2	1.5
6	☐	20000.00	19926.98	19991319.29	20.6178	A	2.8	-0.4

y = 0.0010 * x + 0.0963
R = 1.0000
DL = 3.774 ppb
BEC = 93.55 ppb

Weight: <None>
Min Conc: <None>

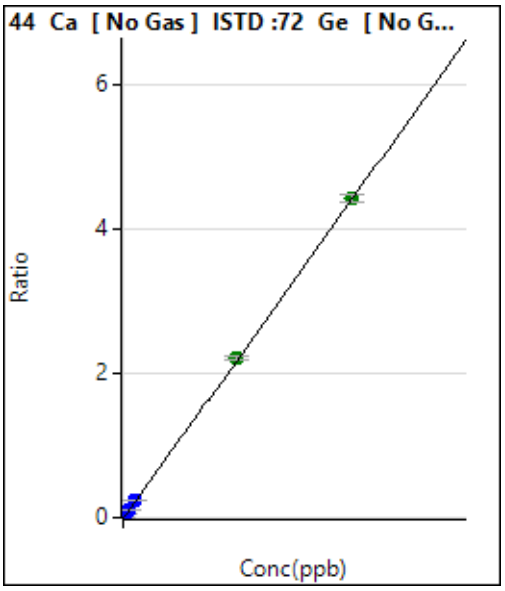


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	53.1	
2	☐	200.000	190.907	673.36	0.0006	P	18.5	-4.5
3	☐	500.000	491.614	1643.46	0.0016	P	7.5	-1.7
4	☐	1000.000	1001.817	3263.79	0.0032	P	10.7	0.2
5	☐	10000.00	9890.718	30259.79	0.0312	P	3.5	-1.1
6	☐	20000.00	20054.85	61284.74	0.0632	P	2.6	0.3

y = 3.1494E-006 * x + 4.1190E-005
R = 1.0000
DL = 20.83 ppb
BEC = 13.08 ppb

Weight: <None>
Min Conc: <None>

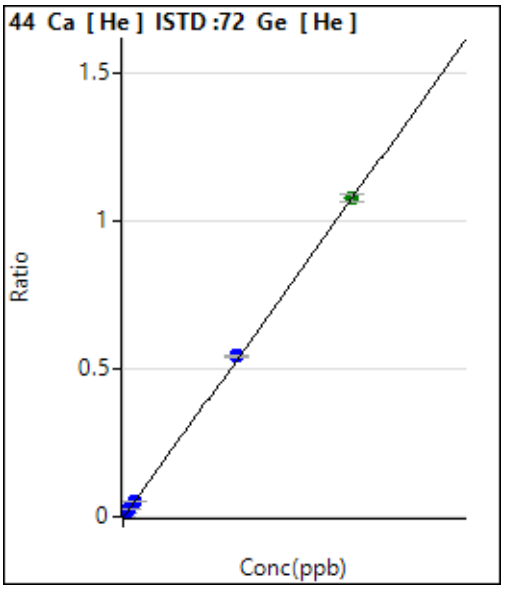
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17087.41	0.0047	P	1.1	
2	☐	200.000	201.566	178411.74	0.0492	P	2.7	0.8
3	☐	500.000	502.319	412283.89	0.1156	P	0.5	0.5
4	☐	1000.000	1023.091	811379.68	0.2306	P	2.4	2.3
5	☐	10000.00	10020.40	7529956.55	2.2171	A	1.9	0.2
6	☐	20000.00	19988.56	14643984.36	4.4180	A	2.2	-0.1

y = 2.2079E-004 * x + 0.0047
R = 1.0000
DL = 0.7153 ppb
BEC = 21.22 ppb

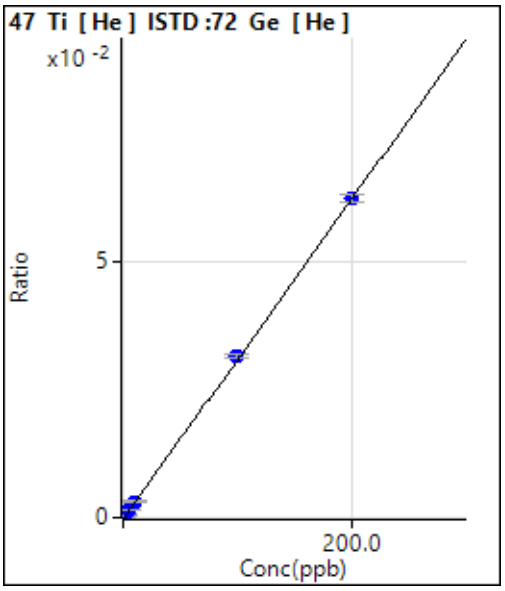
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	783.37	0.0007	P	4.5	
2	☐	200.000	195.744	11831.84	0.0113	P	0.8	-2.1
3	☐	500.000	488.245	27991.78	0.0271	P	2.9	-2.4
4	☐	1000.000	996.381	55601.11	0.0545	P	1.5	-0.4
5	☐	10000.00	10080.44	527807.86	0.5442	P	1.3	0.8
6	☐	20000.00	19960.29	1044197.12	1.0769	A	2.4	-0.2

y = 5.3914E-005 * x + 7.4515E-004
R = 1.0000
DL = 1.862 ppb
BEC = 13.82 ppb

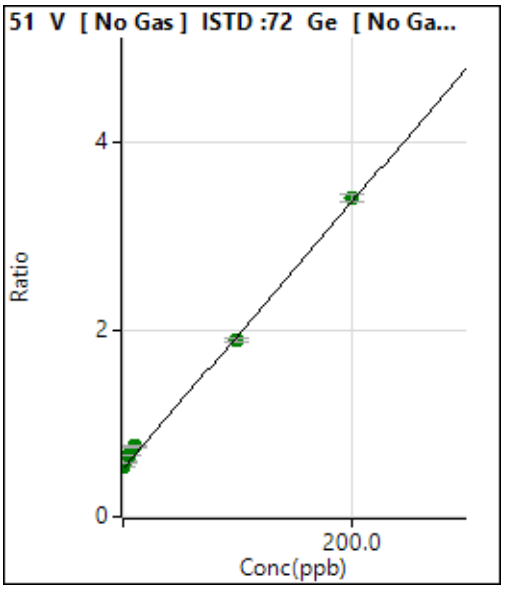
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.5	
2	☐	2.000	1.740	586.69	0.0006	P	25.3	-13.0
3	☐	5.000	4.584	1496.78	0.0014	P	7.6	-8.3
4	☐	10.000	10.050	3220.44	0.0032	P	4.6	0.5
5	☐	100.000	100.810	30550.63	0.0315	P	2.0	0.8
6	☐	200.000	199.606	60461.52	0.0624	P	2.7	-0.2

y = 3.1232E-004 * x + 1.5861E-005
R = 1.0000
DL = 0.1394 ppb
BEC = 0.05078 ppb

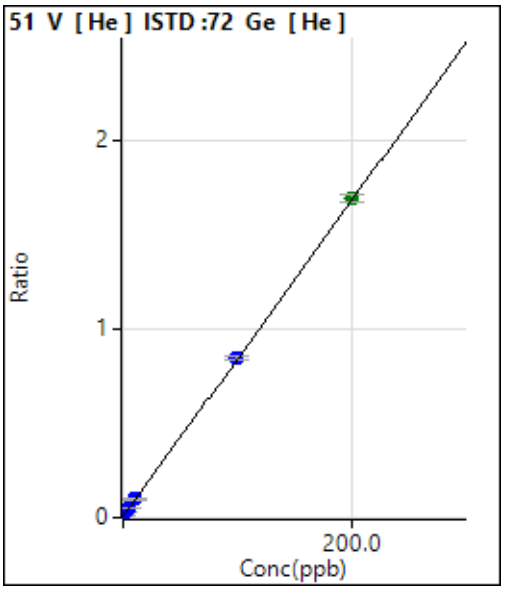
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1943223.28	0.5329	A	0.4	
2	☐	2.000	3.761	2126773.10	0.5864	A	0.7	88.1
3	☐	5.000	9.020	2358541.03	0.6613	A	0.6	80.4
4	☐	10.000	15.667	2659965.39	0.7559	A	2.5	56.7
5	☐	100.000	95.137	6409059.95	1.8871	A	2.3	-4.9
6	☐	200.000	202.030	11298388.69	3.4087	A	2.1	1.0

y = 0.0142 * x + 0.5329
R = 0.9991
DL = 0.4021 ppb
BEC = 37.44 ppb

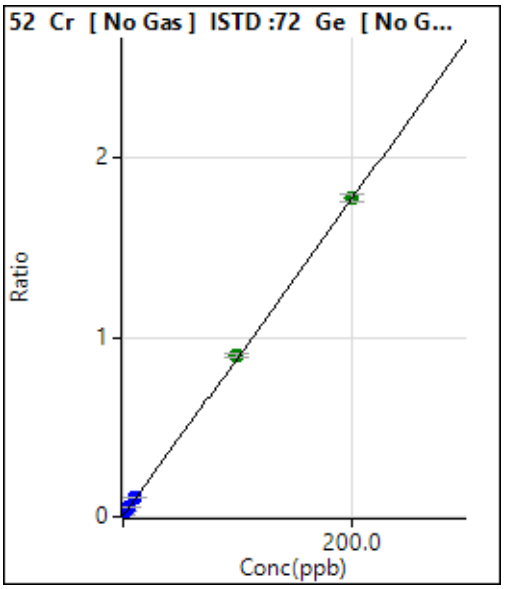
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14058.27	0.0134	P	3.1	
2	☐	2.000	1.876	30514.65	0.0291	P	1.5	-6.2
3	☐	5.000	4.836	55859.63	0.0540	P	2.3	-3.3
4	☐	10.000	9.993	99400.10	0.0974	P	1.9	-0.1
5	☐	100.000	99.210	821733.56	0.8473	P	2.0	-0.8
6	☐	200.000	200.401	1646384.00	1.6979	A	1.8	0.2

y = 0.0084 * x + 0.0134
R = 1.0000
DL = 0.1495 ppb
BEC = 1.591 ppb

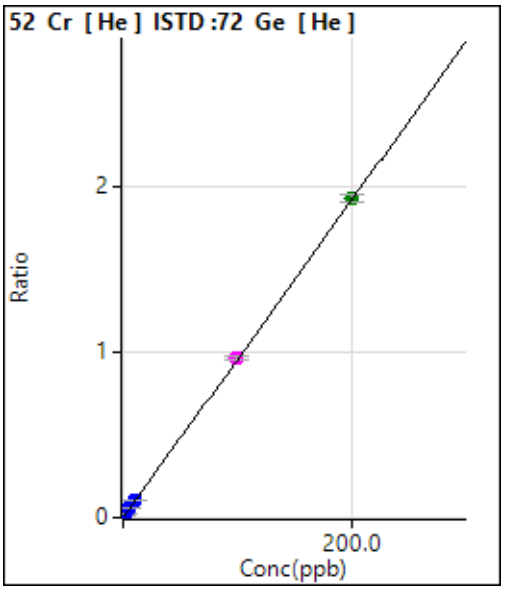
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	47093.54	0.0129	P	1.7	
2	☐	2.000	2.007	111146.81	0.0306	P	1.1	0.4
3	☐	5.000	5.099	206720.77	0.0580	P	1.1	2.0
4	☐	10.000	10.352	367238.17	0.1044	P	2.1	3.5
5	☐	100.000	100.460	3057634.75	0.9003	A	2.0	0.5
6	☐	200.000	199.750	5891257.62	1.7774	A	1.9	-0.1

y = 0.0088 * x + 0.0129
R = 1.0000
DL = 0.07386 ppb
BEC = 1.462 ppb

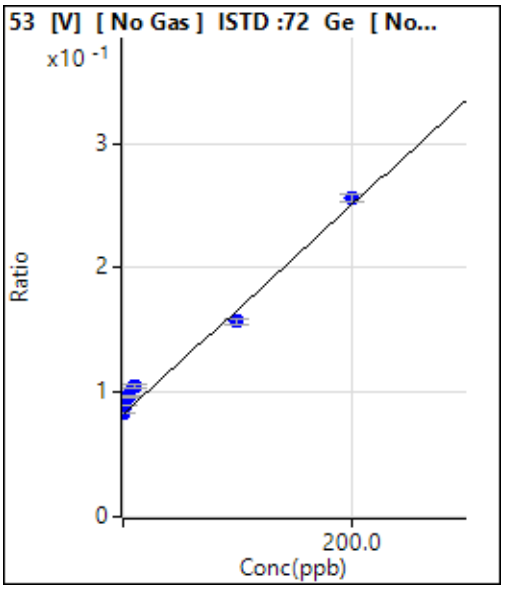
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9503.37	0.0090	P	1.1	
2	☐	2.000	1.847	28011.95	0.0267	P	2.8	-7.7
3	☐	5.000	4.749	56431.70	0.0546	P	1.5	-5.0
4	☐	10.000	9.952	106637.83	0.1045	P	1.7	-0.5
5	☐	100.000	99.668	935667.04	0.9647	M	2.6	-0.3
6	☐	200.000	200.176	1869980.13	1.9285	A	2.0	0.1

y = 0.0096 * x + 0.0090
R = 1.0000
DL = 0.03085 ppb
BEC = 0.9426 ppb

Weight: <None>
Min Conc: <None>

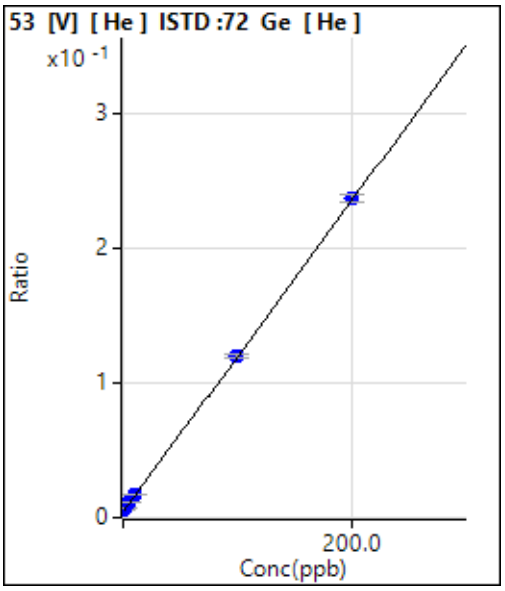


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	305748.07	0.0838	P	0.6	
2	☐	2.000	6.661	324325.33	0.0894	P	1.1	233.1
3	☐	5.000	15.479	345330.51	0.0968	P	1.2	209.6
4	☐	10.000	25.205	369413.37	0.1050	P	2.4	152.0
5	☐	100.000	86.872	532129.78	0.1567	P	3.1	-13.1
6	☐	200.000	205.495	849012.41	0.2562	P	2.6	2.7

y = 8.3849E-004 * x + 0.0838
R = 0.9930
DL = 1.658 ppb
BEC = 100 ppb

Weight: <None>
Min Conc: <None>

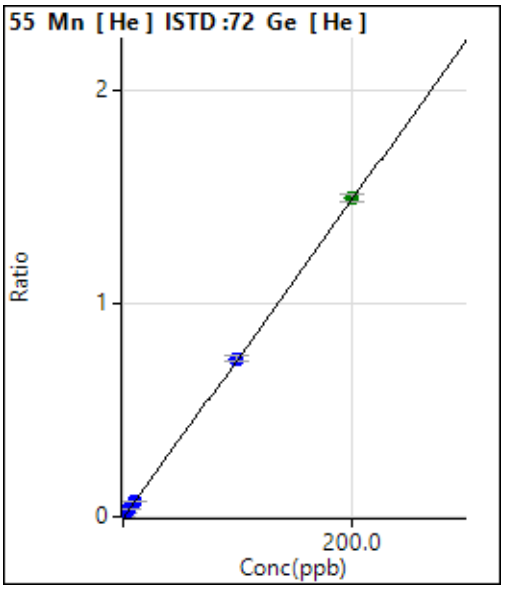
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5747.97	0.0055	P	4.2	
2	☐	2.000	1.936	8065.82	0.0077	P	1.8	-3.2
3	☐	5.000	4.901	11508.30	0.0111	P	1.7	-2.0
4	☐	10.000	10.211	17618.15	0.0173	P	6.7	2.1
5	☐	100.000	98.990	116197.83	0.1198	P	2.3	-1.0
6	☐	200.000	200.498	229853.61	0.2370	P	2.4	0.2

y = 0.0012 * x + 0.0055
R = 1.0000
DL = 0.5962 ppb
BEC = 4.733 ppb

Weight: <None>
Min Conc: <None>

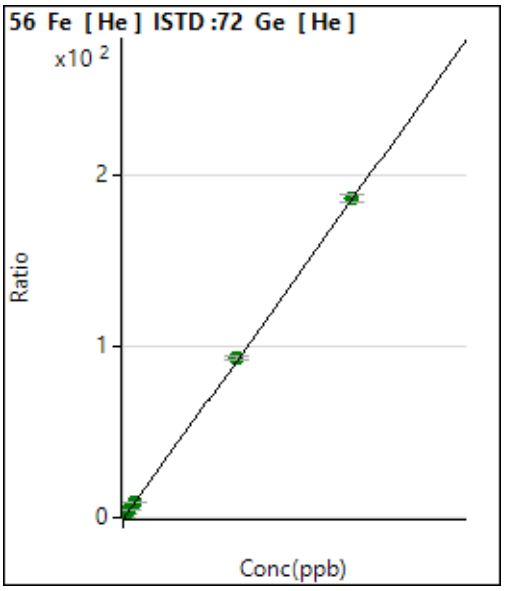


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	726.70	0.0007	P	8.6	
2	☐	2.000	1.820	14958.28	0.0143	P	1.2	-9.0
3	☐	5.000	4.776	37594.95	0.0364	P	2.1	-4.5
4	☐	10.000	9.748	75009.68	0.0735	P	2.0	-2.5
5	☐	100.000	99.354	720131.50	0.7425	P	2.8	-0.6
6	☐	200.000	200.343	1451115.91	1.4966	A	2.5	0.2

y = 0.0075 * x + 6.9108E-004
R = 1.0000
DL = 0.02387 ppb
BEC = 0.09255 ppb

Weight: <None>
Min Conc: <None>

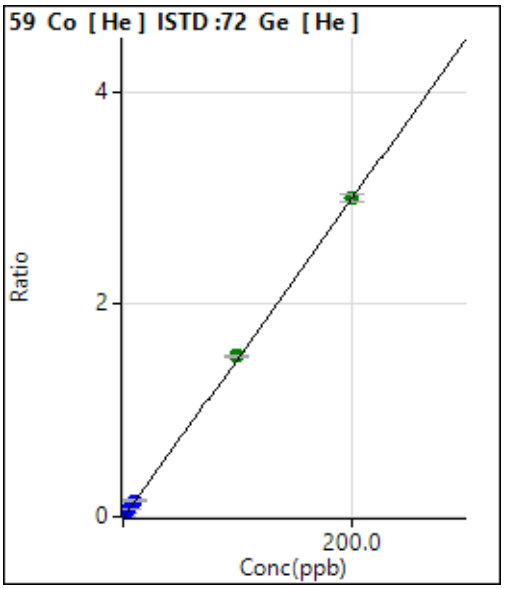
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17014.07	0.0162	P	0.4	
2	☐	200.000	183.589	1805418.72	1.7241	A	2.8	-8.2
3	☐	500.000	476.693	4602724.41	4.4509	A	1.6	-4.7
4	☐	1000.000	993.113	9448265.69	9.2552	A	1.4	-0.7
5	☐	10000.00	9989.267	90143201.99	92.9477	A	2.5	-0.1
6	☐	20000.00	20006.45	180487183.9	186.139	A	2.3	0.0

y = 0.0093 * x + 0.0162
R = 1.0000
DL = 0.0221 ppb
BEC = 1.739 ppb

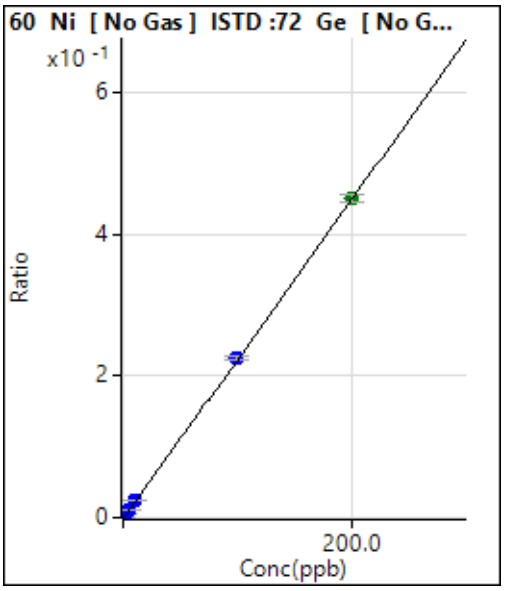
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	476.68	0.0005	P	10.6	
2	☐	2.000	1.806	28900.54	0.0276	P	2.1	-9.7
3	☐	5.000	4.802	75114.60	0.0726	P	2.7	-4.0
4	☐	10.000	10.128	155856.56	0.1527	P	1.6	1.3
5	☐	100.000	100.727	1468712.95	1.5143	A	1.5	0.7
6	☐	200.000	199.637	2909683.60	3.0009	A	2.8	-0.2

y = 0.0150 * x + 4.5345E-004
R = 1.0000
DL = 0.009553 ppb
BEC = 0.03017 ppb

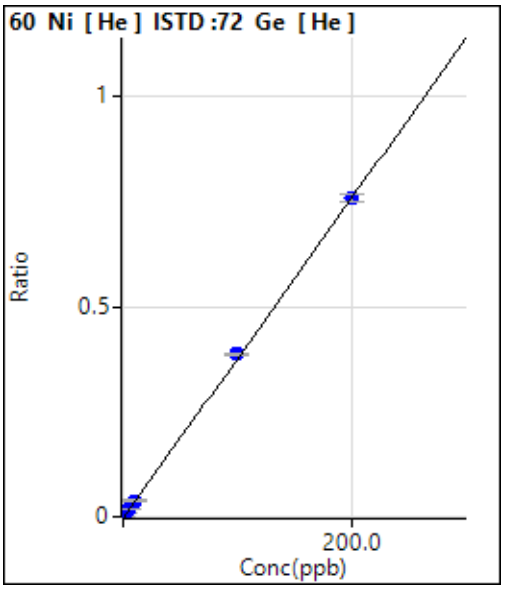
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1276.75	0.0004	P	10.2	
2	☐	2.000	2.010	17694.91	0.0049	P	4.1	0.5
3	☐	5.000	5.102	42251.83	0.0118	P	2.2	2.0
4	☐	10.000	10.325	83099.39	0.0236	P	2.6	3.3
5	☐	100.000	100.266	768430.48	0.2263	P	2.5	0.3
6	☐	200.000	199.848	1493604.09	0.4506	A	2.6	-0.1

y = 0.0023 * x + 3.5020E-004
R = 1.0000
DL = 0.04778 ppb
BEC = 0.1554 ppb

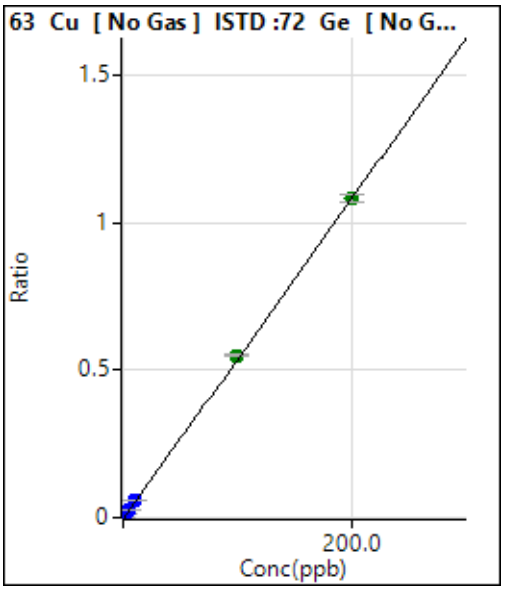
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0003	P	23.8	
2	☐	2.000	1.859	7695.60	0.0073	P	4.4	-7.1
3	☐	5.000	5.023	20071.57	0.0194	P	4.2	0.5
4	☐	10.000	10.127	39680.93	0.0389	P	1.1	1.3
5	☐	100.000	101.765	376592.83	0.3883	P	1.0	1.8
6	☐	200.000	199.112	736351.86	0.7594	P	3.0	-0.4

y = 0.0038 * x + 2.6008E-004
R = 0.9999
DL = 0.04861 ppb
BEC = 0.06821 ppb

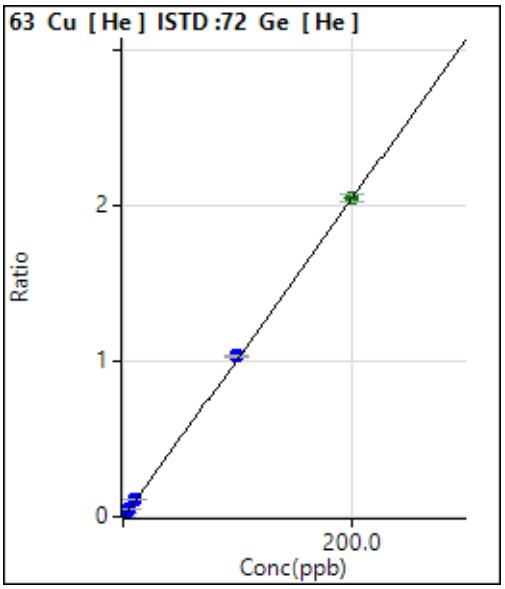
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1720.14	0.0005	P	3.1	
2	☐	2.000	2.097	43071.06	0.0119	P	1.4	4.9
3	☐	5.000	5.175	102067.18	0.0286	P	1.2	3.5
4	☐	10.000	10.391	200512.21	0.0570	P	2.4	3.9
5	☐	100.000	101.386	1874150.55	0.5518	A	2.0	1.4
6	☐	200.000	199.282	3593687.55	1.0842	A	2.1	-0.4

y = 0.0054 * x + 4.7176E-004
R = 1.0000
DL = 0.008055 ppb
BEC = 0.08675 ppb

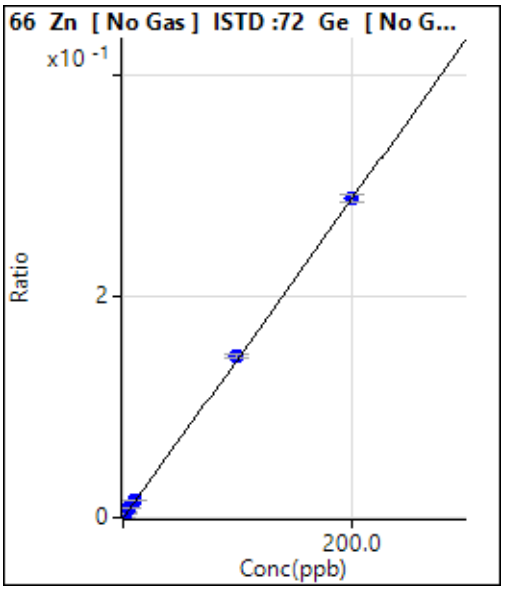
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	636.70	0.0006	P	17.6	
2	☐	2.000	1.920	21286.71	0.0203	P	1.5	-4.0
3	☐	5.000	5.006	53798.75	0.0520	P	3.3	0.1
4	☐	10.000	10.267	108260.04	0.1061	P	1.1	2.7
5	☐	100.000	100.544	1002080.51	1.0332	P	0.8	0.5
6	☐	200.000	199.715	1989361.22	2.0517	A	2.6	-0.1

y = 0.0103 * x + 6.0565E-004
R = 1.0000
DL = 0.03114 ppb
BEC = 0.05897 ppb

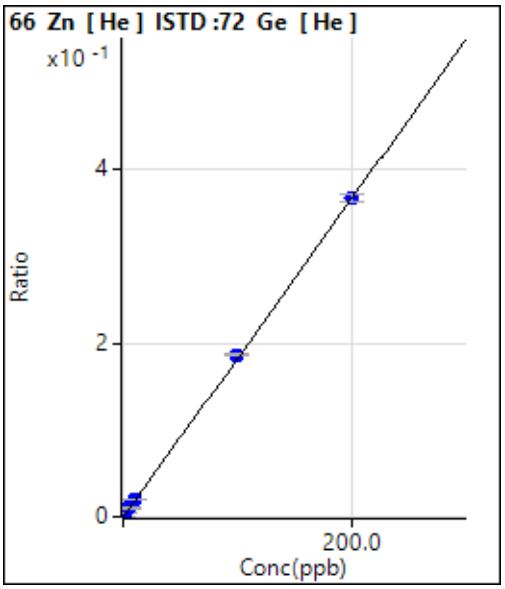
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2747.00	0.0008	P	2.7	
2	☐	2.000	2.469	15642.52	0.0043	P	5.4	23.5
3	☐	5.000	5.190	29368.43	0.0082	P	2.1	3.8
4	☐	10.000	10.188	54330.92	0.0154	P	1.7	1.9
5	☐	100.000	100.839	496222.88	0.1461	P	1.7	0.8
6	☐	200.000	199.562	955953.26	0.2884	P	2.4	-0.2

y = 0.0014 * x + 7.5337E-004
R = 1.0000
DL = 0.04282 ppb
BEC = 0.5226 ppb

Weight: <None>
Min Conc: <None>

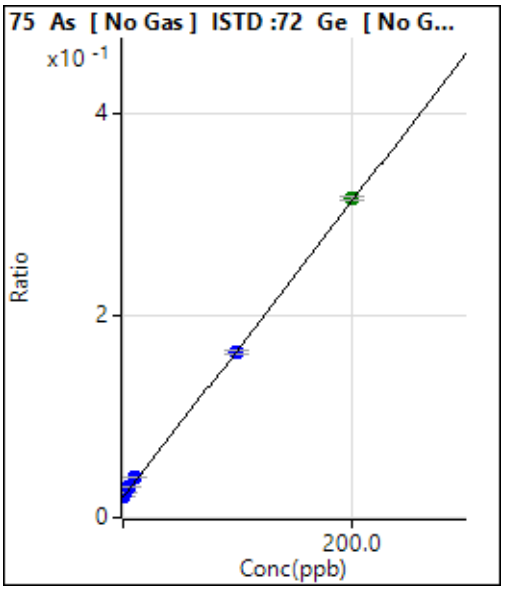


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1103.40	0.0010	P	4.6	
2	☐	2.000	2.115	5161.05	0.0049	P	5.2	5.8
3	☐	5.000	4.957	10490.85	0.0101	P	4.7	-0.9
4	☐	10.000	10.318	20395.45	0.0200	P	1.1	3.2
5	☐	100.000	101.088	180879.80	0.1865	P	0.5	1.1
6	☐	200.000	199.440	355802.53	0.3669	P	2.6	-0.3

y = 0.0018 * x + 0.0010
R = 1.0000
DL = 0.07876 ppb
BEC = 0.572 ppb

Weight: <None>
Min Conc: <None>

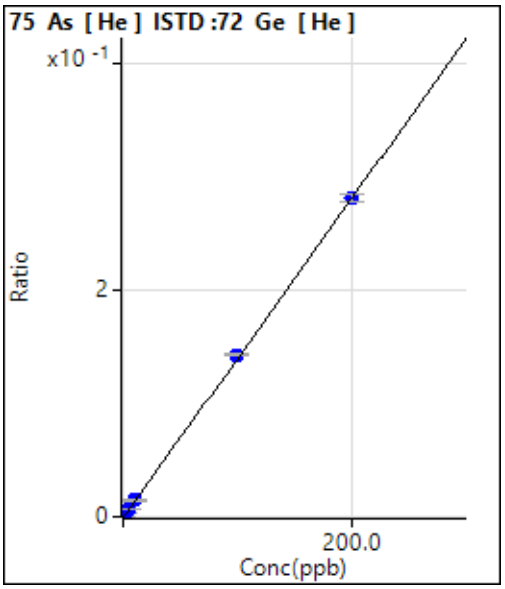
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	78944.74	0.0216	P	1.0	
2	☐	2.000	2.654	92630.33	0.0255	P	1.2	32.7
3	☐	5.000	6.309	110222.10	0.0309	P	0.9	26.2
4	☐	10.000	12.432	140369.70	0.0399	P	2.1	24.3
5	☐	100.000	97.338	558562.32	0.1645	P	2.6	-2.7
6	☐	200.000	201.170	1050143.39	0.3168	A	1.3	0.6

y = 0.0015 * x + 0.0216
R = 0.9998
DL = 0.423 ppb
BEC = 14.75 ppb

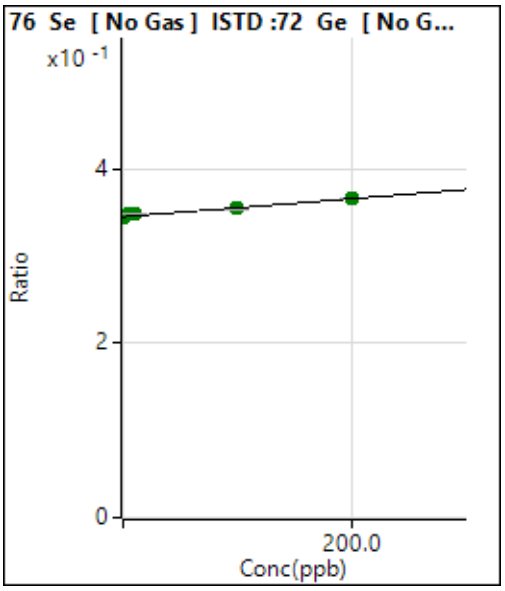
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	410.01	0.0004	P	5.7	
2	☐	2.000	1.778	3035.91	0.0029	P	5.3	-11.1
3	☐	5.000	4.792	7396.48	0.0072	P	2.5	-4.2
4	☐	10.000	9.947	14730.21	0.0144	P	4.0	-0.5
5	☐	100.000	101.319	139044.84	0.1434	P	1.7	1.3
6	☐	200.000	199.350	273165.88	0.2817	P	2.7	-0.3

y = 0.0014 * x + 3.9001E-004
R = 1.0000
DL = 0.04714 ppb
BEC = 0.2764 ppb

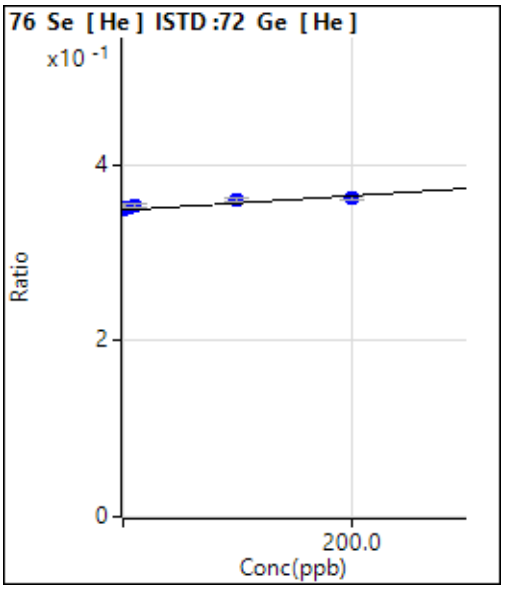
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1259563.94	0.3454	A	0.6	
2	☐	2.000	4.398	1254367.24	0.3459	A	0.7	119.9
3	☐	5.000	27.806	1242312.33	0.3483	A	0.2	456.1
4	☐	10.000	41.566	1230978.50	0.3498	A	0.1	315.7
5	☐	100.000	90.143	1205194.02	0.3549	A	0.6	-9.9
6	☐	200.000	202.756	1215354.33	0.3666	A	0.2	1.4

y = 1.0468E-004 * x + 0.3454
R = 0.9826
DL = 57.59 ppb
BEC = 3300 ppb

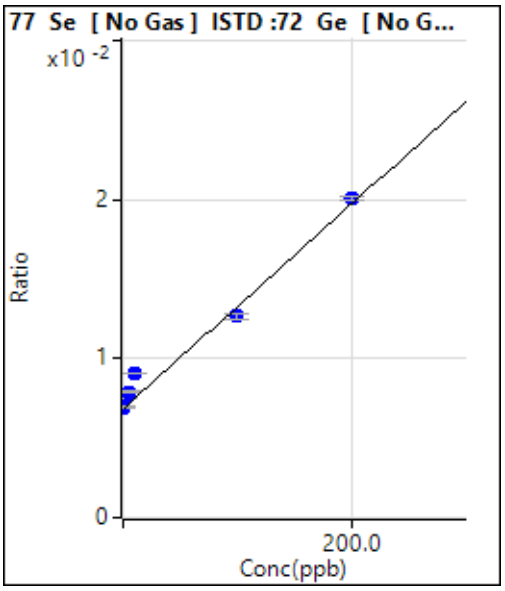
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366481.23	0.3486	P	1.1	
2	☐	2.000	48.090	369229.85	0.3526	P	1.5	2304.5
3	☐	5.000	36.512	363563.47	0.3516	P	1.1	630.2
4	☐	10.000	66.945	361524.51	0.3541	P	0.9	569.4
5	☐	100.000	154.505	350501.39	0.3614	P	1.2	54.5
6	☐	200.000	168.652	351611.58	0.3626	P	1.3	-15.7

y = 8.3210E-005 * x + 0.3486
R = 0.9063
DL = 135.9 ppb
BEC = 4189 ppb

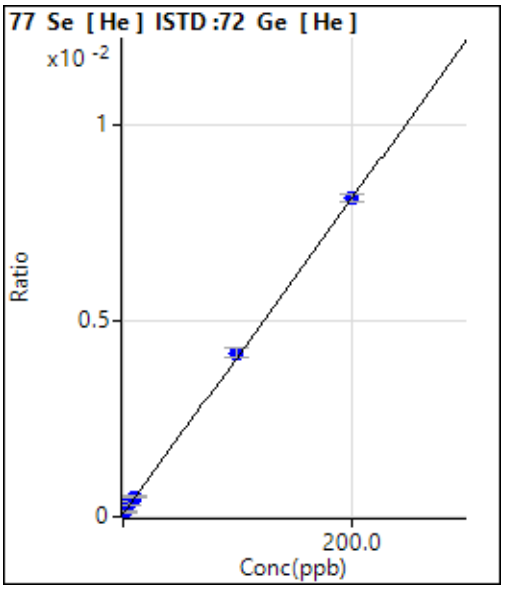
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	25327.12	0.0069	P	0.3	
2	☐	2.000	9.861	27488.06	0.0076	P	1.8	393.0
3	☐	5.000	14.315	28049.40	0.0079	P	1.5	186.3
4	☐	10.000	32.965	31894.33	0.0091	P	1.0	229.6
5	☐	100.000	88.673	42934.63	0.0126	P	2.5	-11.3
6	☐	200.000	204.204	66498.56	0.0201	P	1.1	2.1

y = 6.4230E-005 * x + 0.0069
R = 0.9910
DL = 1.081 ppb
BEC = 108.1 ppb

Weight: <None>
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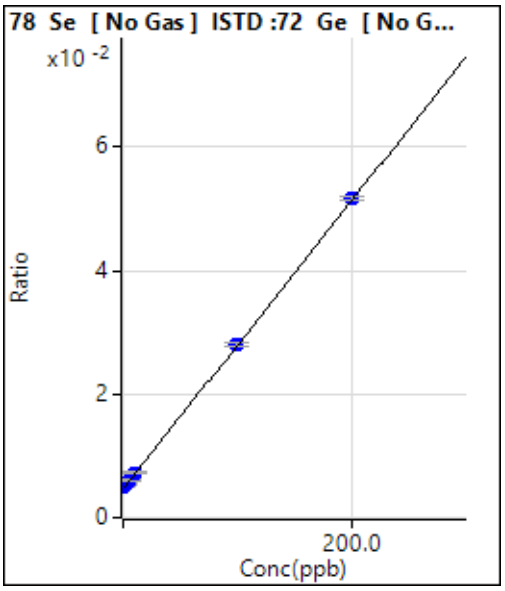


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.34	0.0001	P	54.3	
2	☐	2.000	0.708	143.34	0.0001	P	44.2	-64.6
3	☐	5.000	5.878	356.68	0.0003	P	18.0	17.6
4	☐	10.000	9.879	516.69	0.0005	P	6.1	-1.2
5	☐	100.000	101.057	4057.35	0.0042	P	5.6	1.1
6	☐	200.000	199.469	7902.42	0.0082	P	2.8	-0.3

y = 4.0319E-005 * x + 1.0794E-004
R = 0.9999
DL = 4.361 ppb
BEC = 2.677 ppb

Weight: <None>
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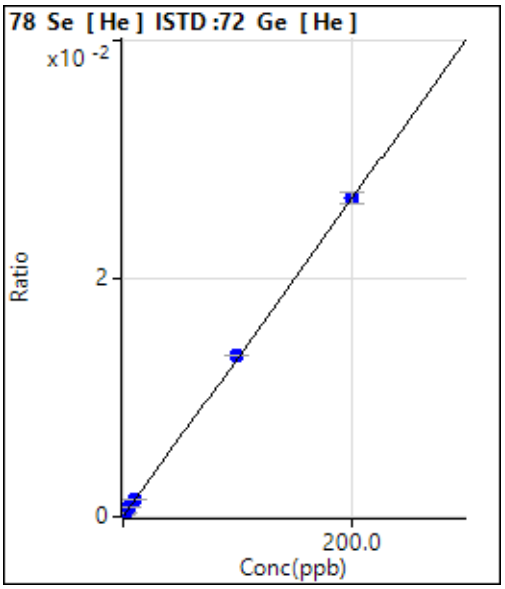
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17938.70	0.0049	P	2.2	
2	☐	2.000	2.233	19727.93	0.0054	P	1.5	11.6
3	☐	5.000	4.687	21440.55	0.0060	P	2.3	-6.3
4	☐	10.000	10.216	25691.13	0.0073	P	3.2	2.2
5	☐	100.000	98.802	94946.15	0.0280	P	2.2	-1.2
6	☐	200.000	200.594	171336.94	0.0517	P	1.7	0.3

y = 2.3317E-004 * x + 0.0049
R = 1.0000
DL = 1.385 ppb
BEC = 21.1 ppb

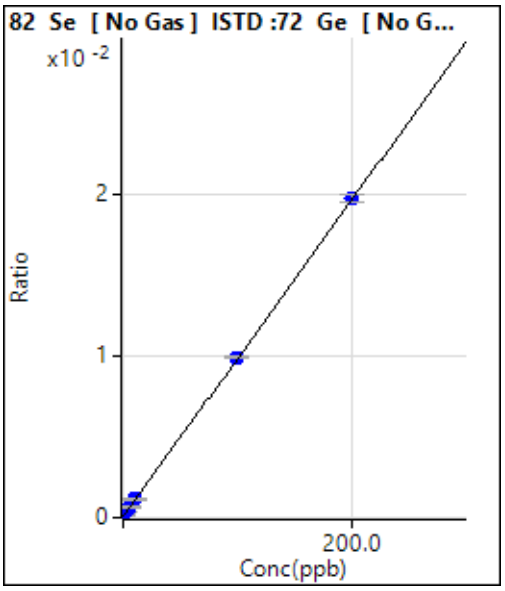
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	147.33	0.0001	P	28.0	
2	☐	2.000	1.709	385.34	0.0004	P	3.2	-14.5
3	☐	5.000	4.697	792.69	0.0008	P	7.5	-6.1
4	☐	10.000	9.558	1444.08	0.0014	P	3.2	-4.4
5	☐	100.000	100.808	13173.03	0.0136	P	0.2	0.8
6	☐	200.000	199.628	25942.65	0.0268	P	4.2	-0.2

y = 1.3334E-004 * x + 1.4015E-004
R = 1.0000
DL = 0.8815 ppb
BEC = 1.051 ppb

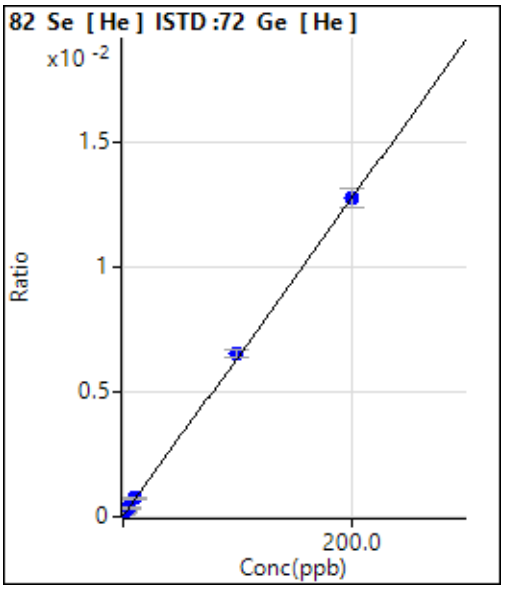
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.70	0.0002	P	18.5	
2	☐	2.000	2.006	1333.43	0.0004	P	12.0	0.3
3	☐	5.000	4.866	2306.90	0.0006	P	2.9	-2.7
4	☐	10.000	10.165	4094.02	0.0012	P	9.7	1.7
5	☐	100.000	99.620	33601.89	0.0099	P	1.3	-0.4
6	☐	200.000	200.185	65326.83	0.0197	P	2.2	0.1

y = 9.7590E-005 * x + 1.7197E-004
R = 1.0000
DL = 0.9754 ppb
BEC = 1.762 ppb

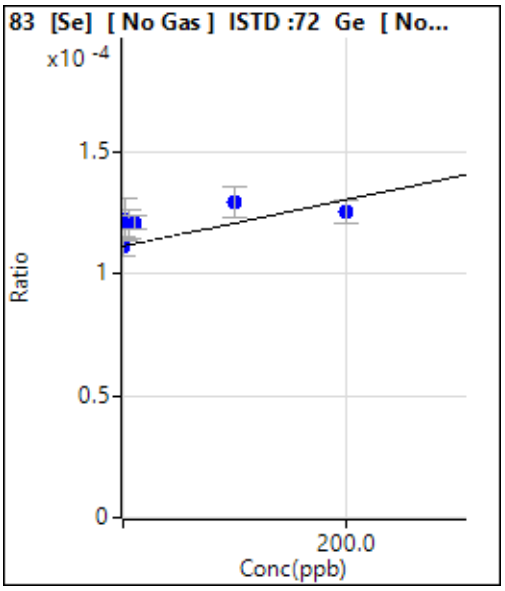
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	9.7	
2	☐	2.000	1.916	226.67	0.0002	P	27.7	-4.2
3	☐	5.000	3.976	360.01	0.0003	P	19.4	-20.5
4	☐	10.000	10.265	763.37	0.0007	P	10.9	2.6
5	☐	100.000	101.499	6348.26	0.0065	P	4.6	1.5
6	☐	200.000	199.264	12372.50	0.0128	P	5.9	-0.4

y = 6.3575E-005 * x + 9.5091E-005
R = 0.9999
DL = 0.4342 ppb
BEC = 1.496 ppb

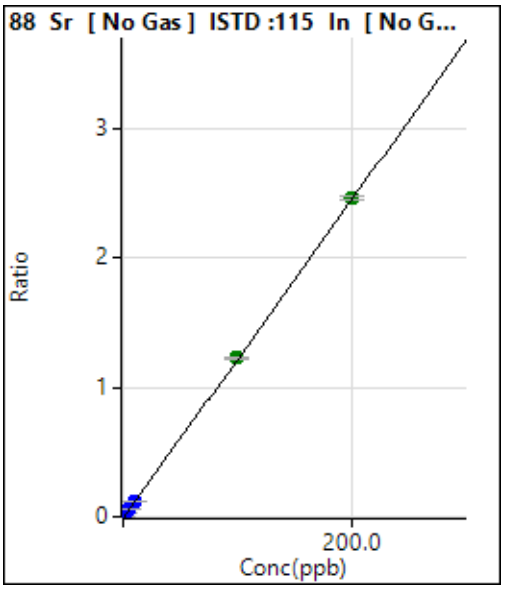
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	406.68	0.0001	P	7.4	
2	☐	2.000	112.119	443.35	0.0001	P	14.4	5506.0
3	☐	5.000	94.532	430.01	0.0001	P	10.1	1790.6
4	☐	10.000	101.445	426.68	0.0001	P	4.7	914.4
5	☐	100.000	188.560	440.02	0.0001	P	10.3	88.6
6	☐	200.000	147.808	416.68	0.0001	P	7.4	-26.1

y = 9.5946E-008 * x + 1.1150E-004
R = 0.6227
DL = 259.1 ppb
BEC = 1162 ppb

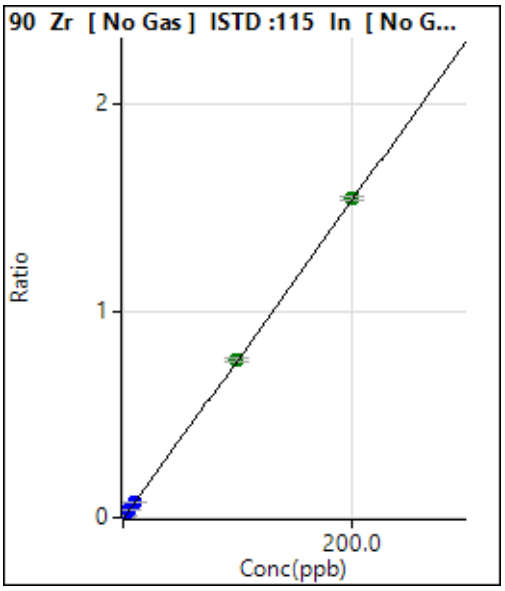
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3243.79	0.0006	P	2.4	
2	☐	2.000	1.891	121575.82	0.0239	P	2.9	-5.5
3	☐	5.000	4.814	297238.57	0.0598	P	2.9	-3.7
4	☐	10.000	9.788	598141.36	0.1209	P	1.3	-2.1
5	☐	100.000	99.672	5841576.58	1.2258	A	1.8	-0.3
6	☐	200.000	200.180	11477721.91	2.4614	A	1.3	0.1

y = 0.0123 * x + 6.3032E-004
R = 1.0000
DL = 0.003626 ppb
BEC = 0.05128 ppb

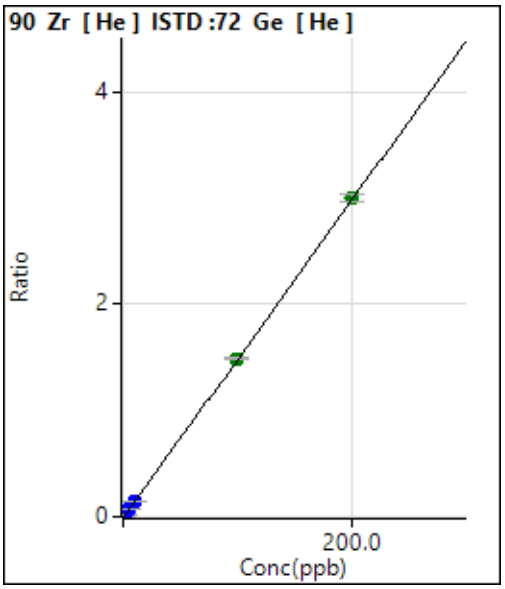
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1643.48	0.0003	P	3.6	
2	☐	2.000	1.530	61644.08	0.0121	P	2.9	-23.5
3	☐	5.000	4.318	166883.04	0.0336	P	2.5	-13.6
4	☐	10.000	9.245	353780.02	0.0715	P	1.5	-7.6
5	☐	100.000	99.045	3637456.72	0.7633	A	1.8	-1.0
6	☐	200.000	200.537	7205272.81	1.5452	A	1.0	0.3

y = 0.0077 * x + 3.1937E-004
R = 1.0000
DL = 0.004508 ppb
BEC = 0.04146 ppb

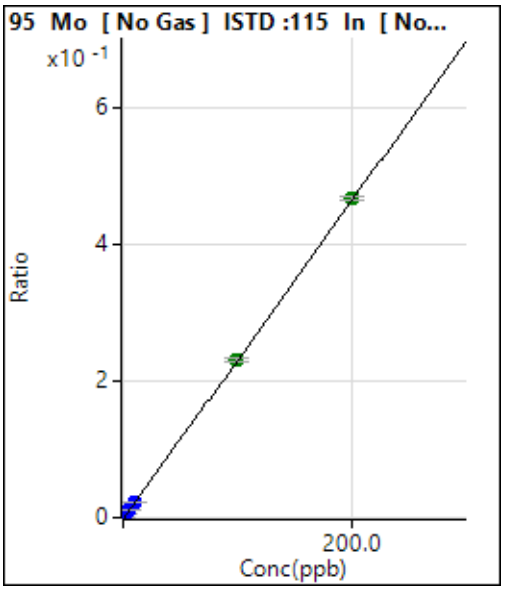
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1756.81	0.0017	P	4.5	
2	☐	2.000	1.493	25133.68	0.0240	P	4.4	-25.3
3	☐	5.000	4.231	67156.83	0.0649	P	4.1	-15.4
4	☐	10.000	9.130	141066.41	0.1382	P	2.0	-8.7
5	☐	100.000	99.181	1439931.75	1.4848	A	1.4	-0.8
6	☐	200.000	200.477	2908314.44	2.9995	A	2.8	0.2

y = 0.0150 * x + 0.0017
R = 1.0000
DL = 0.01499 ppb
BEC = 0.1117 ppb

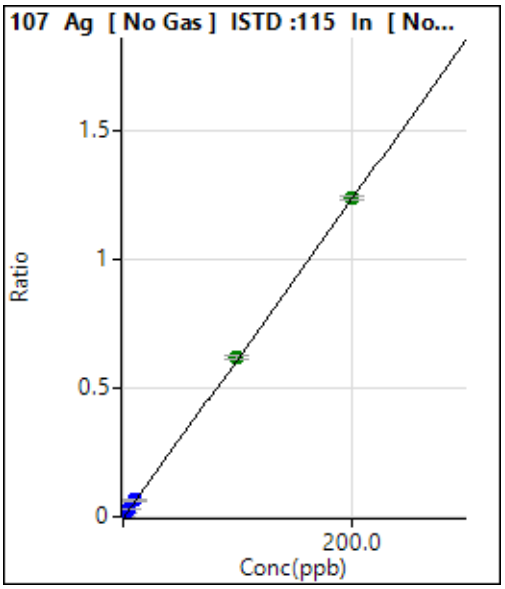
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0000	P	32.4	
2	☐	2.000	1.906	22796.24	0.0045	P	5.3	-4.7
3	☐	5.000	4.857	56414.97	0.0114	P	3.5	-2.9
4	☐	10.000	10.011	115525.56	0.0234	P	3.4	0.1
5	☐	100.000	98.826	1097333.92	0.2303	A	2.4	-1.2
6	☐	200.000	200.591	2179323.67	0.4674	A	0.9	0.3

y = 0.0023 * x + 3.6244E-005
R = 1.0000
DL = 0.01512 ppb
BEC = 0.01556 ppb

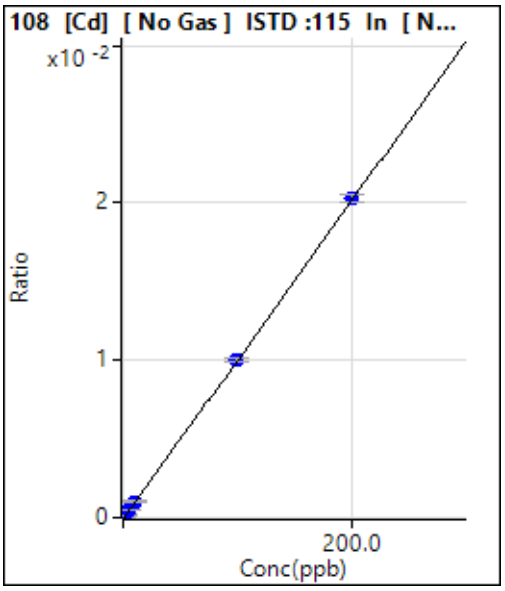
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0001	P	12.1	
2	☐	2.000	1.991	63075.50	0.0124	P	2.8	-0.4
3	☐	5.000	5.051	155559.92	0.0313	P	1.9	1.0
4	☐	10.000	10.310	315587.03	0.0638	P	2.2	3.1
5	☐	100.000	100.027	2947292.25	0.6185	A	1.7	0.0
6	☐	200.000	199.970	5765372.41	1.2364	A	1.3	0.0

y = 0.0062 * x + 7.1920E-005
R = 1.0000
DL = 0.004233 ppb
BEC = 0.01163 ppb

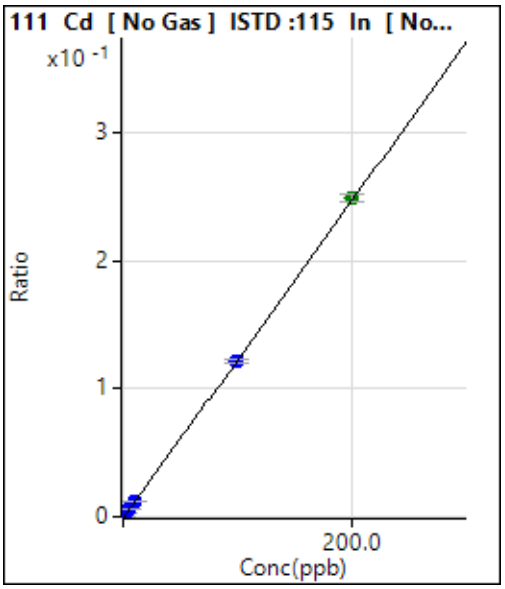
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	1.961	1023.40	0.0002	P	17.8	-1.9
3	☐	5.000	5.047	2550.31	0.0005	P	3.1	0.9
4	☐	10.000	10.091	5061.05	0.0010	P	7.2	0.9
5	☐	100.000	98.947	47708.71	0.0100	P	1.9	-1.1
6	☐	200.000	200.521	94607.17	0.0203	P	2.5	0.3

y = 1.0116E-004 * x + 2.5896E-006
R = 1.0000
DL = 0.06651 ppb
BEC = 0.0256 ppb

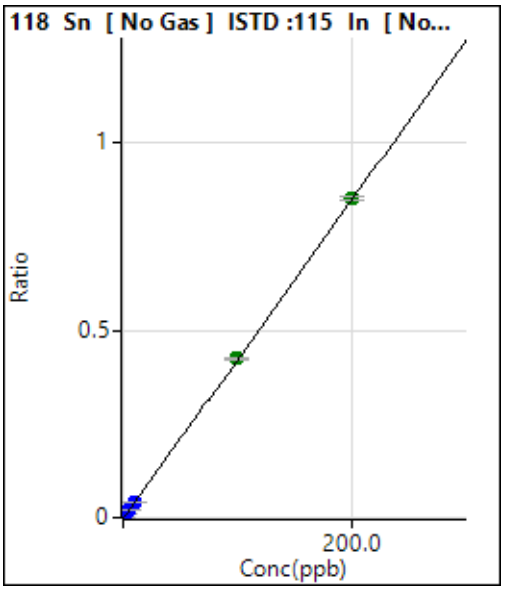
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-0.97	0.0000	P	-2100.	
2	☐	2.000	1.896	11948.48	0.0023	P	7.1	-5.2
3	☐	5.000	4.998	30742.46	0.0062	P	3.3	0.0
4	☐	10.000	9.862	60368.26	0.0122	P	1.0	-1.4
5	☐	100.000	98.072	578468.91	0.1214	P	2.0	-1.9
6	☐	200.000	200.972	1160024.12	0.2488	A	2.0	0.5

y = 0.0012 * x - 1.9229E-007
R = 0.9999
DL = 0.009788 ppb
BEC = -0.0001553 ppb

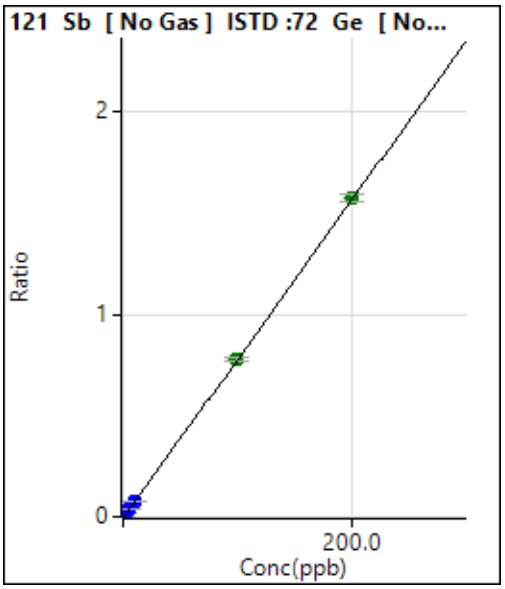
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6208.23	0.0012	P	10.1	
2	☐	2.000	1.930	47916.62	0.0094	P	2.9	-3.5
3	☐	5.000	4.911	109703.60	0.0221	P	2.7	-1.8
4	☐	10.000	9.865	213280.86	0.0431	P	1.2	-1.4
5	☐	100.000	99.758	2025766.32	0.4251	A	1.4	-0.2
6	☐	200.000	200.131	3971292.65	0.8516	A	1.5	0.1

y = 0.0042 * x + 0.0012
R = 1.0000
DL = 0.08604 ppb
BEC = 0.284 ppb

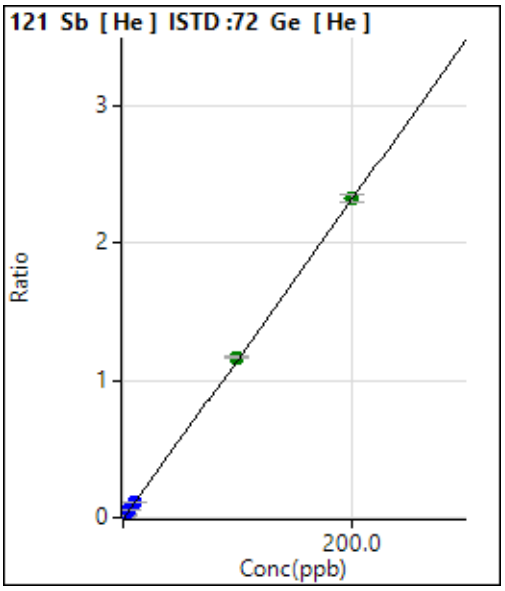
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	703.36	0.0002	P	4.7	
2	☐	2.000	1.887	54475.33	0.0150	P	0.3	-5.7
3	☐	5.000	4.871	137223.71	0.0385	P	1.7	-2.6
4	☐	10.000	9.875	273761.82	0.0778	P	2.2	-1.2
5	☐	100.000	99.131	2646404.39	0.7792	A	2.2	-0.9
6	☐	200.000	200.445	5221636.07	1.5754	A	2.3	0.2

y = 0.0079 * x + 1.9291E-004
R = 1.0000
DL = 0.003448 ppb
BEC = 0.02455 ppb

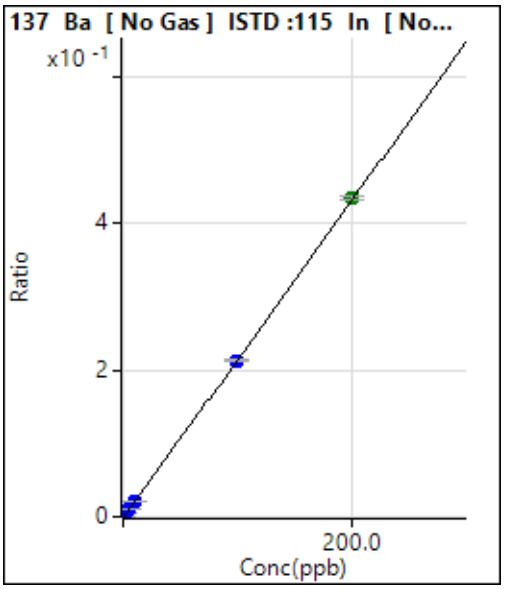
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	22.2	
2	☐	2.000	1.797	22202.22	0.0212	P	2.0	-10.2
3	☐	5.000	4.737	57270.27	0.0554	P	0.6	-5.3
4	☐	10.000	9.812	116754.38	0.1144	P	2.3	-1.9
5	☐	100.000	100.109	1128856.18	1.1640	A	1.4	0.1
6	☐	200.000	199.963	2254087.41	2.3247	A	2.2	0.0

y = 0.0116 * x + 3.1689E-004
R = 1.0000
DL = 0.01817 ppb
BEC = 0.02726 ppb

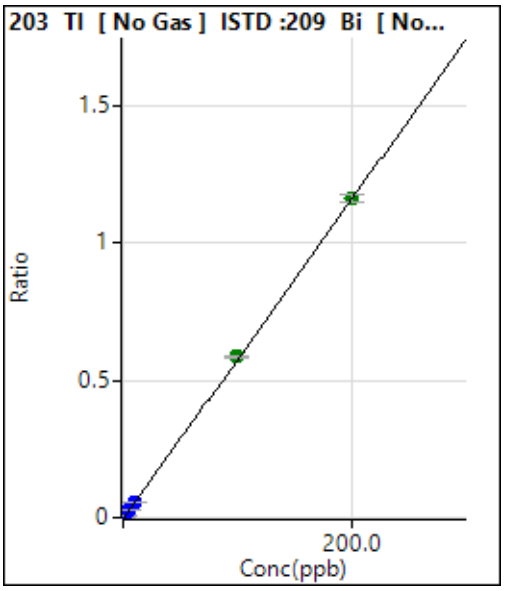
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	813.37	0.0002	P	7.2	
2	☐	2.000	2.109	24028.92	0.0047	P	1.4	5.5
3	☐	5.000	4.877	53174.64	0.0107	P	2.1	-2.5
4	☐	10.000	9.835	105908.60	0.0214	P	1.1	-1.7
5	☐	100.000	98.443	1014679.88	0.2129	P	1.2	-1.6
6	☐	200.000	200.789	2024538.35	0.4341	A	1.4	0.4

y = 0.0022 * x + 1.5806E-004
R = 1.0000
DL = 0.01589 ppb
BEC = 0.07313 ppb

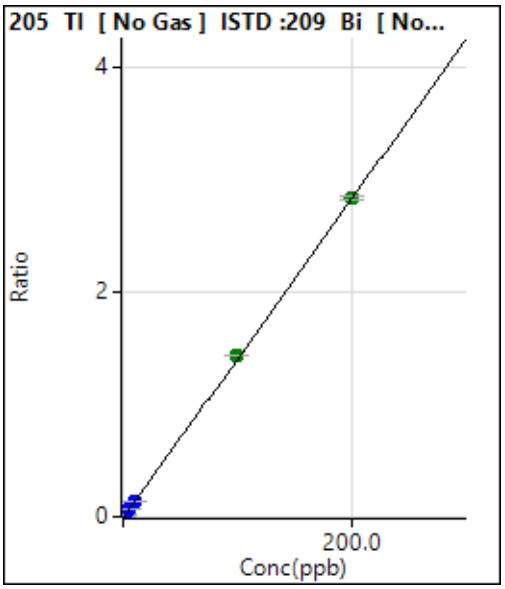
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	730.04	0.0001	P	15.1	
2	☐	2.000	1.652	53607.41	0.0098	P	0.6	-17.4
3	☐	5.000	4.842	152701.87	0.0284	P	0.3	-3.2
4	☐	10.000	9.457	296169.43	0.0552	P	1.2	-5.4
5	☐	100.000	100.622	3027705.58	0.5865	A	0.6	0.6
6	☐	200.000	199.724	5874836.16	1.1641	A	2.2	-0.1

y = 0.0058 * x + 1.3153E-004
R = 1.0000
DL = 0.01024 ppb
BEC = 0.02257 ppb

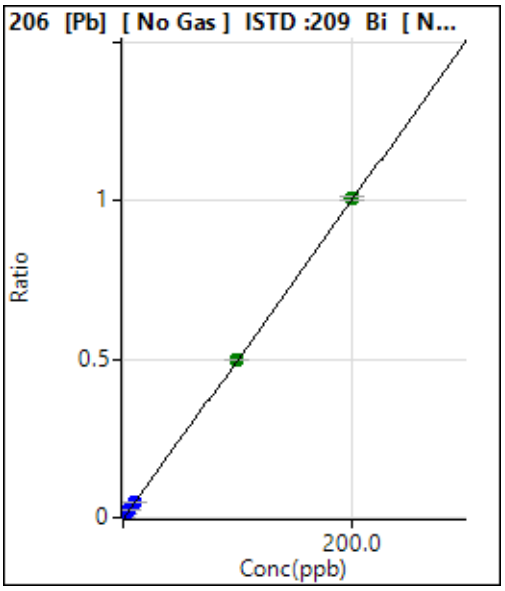
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1996.86	0.0004	P	6.0	
2	☐	2.000	1.634	129578.22	0.0236	P	3.2	-18.3
3	☐	5.000	4.699	361702.04	0.0672	P	1.9	-6.0
4	☐	10.000	9.227	705021.99	0.1315	P	0.9	-7.7
5	☐	100.000	100.820	7399073.85	1.4334	A	0.7	0.8
6	☐	200.000	199.640	14322744.79	2.8379	A	1.7	-0.2

y = 0.0142 * x + 3.5987E-004
R = 1.0000
DL = 0.004558 ppb
BEC = 0.02532 ppb

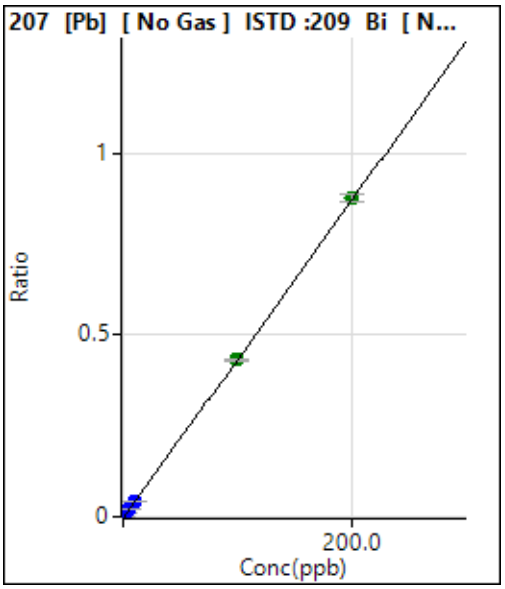
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1213.43	0.0002	P	17.3	
2	☐	2.000	1.893	53503.70	0.0097	P	2.2	-5.3
3	☐	5.000	4.873	133113.80	0.0247	P	1.9	-2.5
4	☐	10.000	9.940	269069.84	0.0502	P	0.8	-0.6
5	☐	100.000	99.279	2577457.46	0.4993	A	0.5	-0.7
6	☐	200.000	200.368	5084786.38	1.0075	A	1.5	0.2

y = 0.0050 * x + 2.1879E-004
R = 1.0000
DL = 0.02254 ppb
BEC = 0.04352 ppb

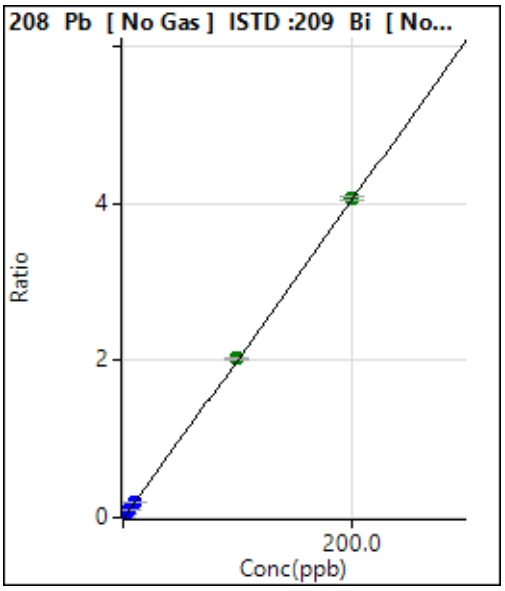
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1096.81	0.0002	P	13.2	
2	☐	2.000	1.871	46014.07	0.0084	P	0.7	-6.4
3	☐	5.000	4.952	117636.39	0.0218	P	1.0	-1.0
4	☐	10.000	9.948	234132.76	0.0437	P	1.1	-0.5
5	☐	100.000	98.923	2232702.21	0.4325	A	1.1	-1.1
6	☐	200.000	200.543	4424276.08	0.8766	A	1.9	0.3

y = 0.0044 * x + 1.9776E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.04525 ppb

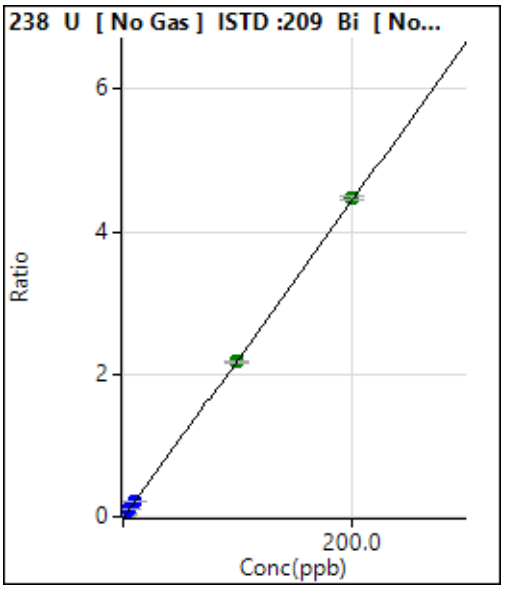
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4787.19	0.0009	P	8.1	
2	☐	2.000	1.872	213589.44	0.0389	P	2.1	-6.4
3	☐	5.000	4.840	534140.95	0.0992	P	1.3	-3.2
4	☐	10.000	9.814	1073244.63	0.2002	P	0.8	-1.9
5	☐	100.000	99.517	10438210.00	2.0221	A	1.1	-0.5
6	☐	200.000	200.256	20531264.80	4.0681	A	1.7	0.1

y = 0.0203 * x + 8.6300E-004
R = 1.0000
DL = 0.01029 ppb
BEC = 0.04249 ppb

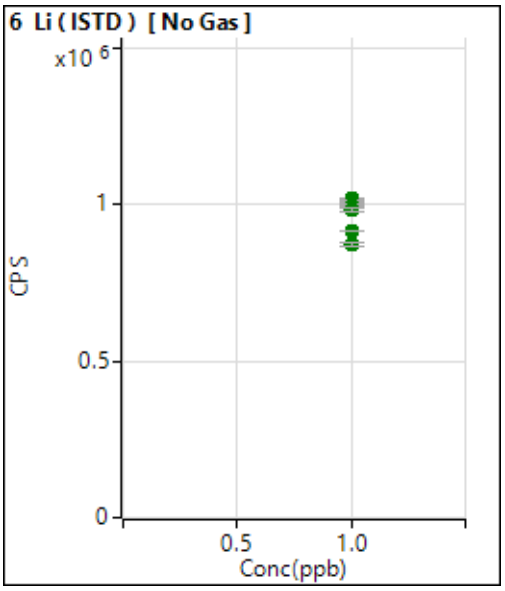
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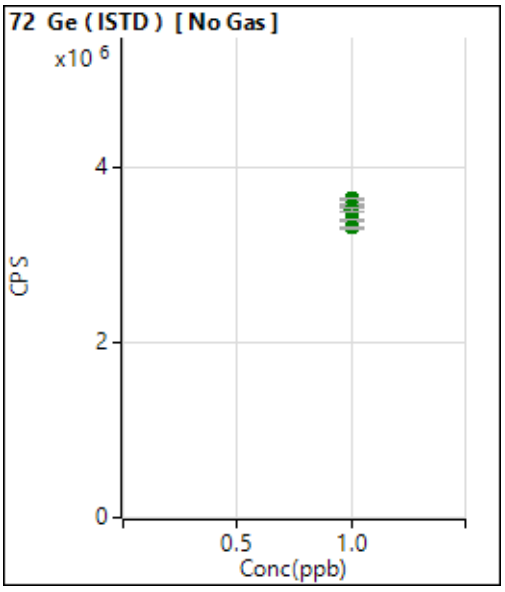
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3160.47	0.0006	P	6.0	
2	☐	2.000	1.778	220531.44	0.0401	P	2.0	-11.1
3	☐	5.000	4.627	557513.72	0.1035	P	2.1	-7.5
4	☐	10.000	9.359	1119490.77	0.2088	P	1.0	-6.4
5	☐	100.000	98.013	11260761.50	2.1814	A	1.3	-2.0
6	☐	200.000	201.037	22578060.50	4.4737	A	1.7	0.5

y = 0.0223 * x + 5.6967E-004
R = 0.9999
DL = 0.004613 ppb
BEC = 0.0256 ppb

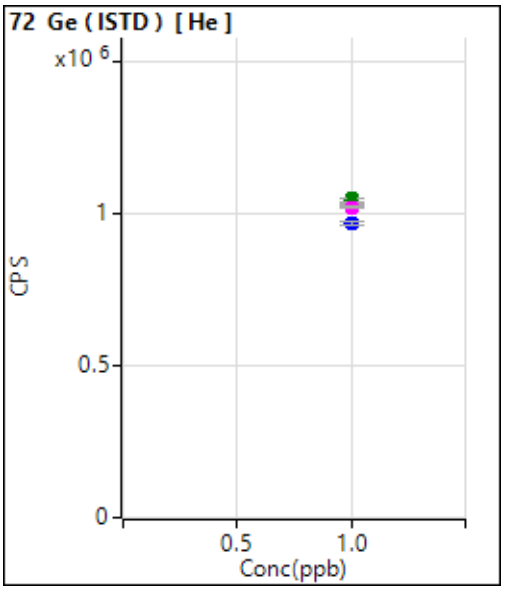
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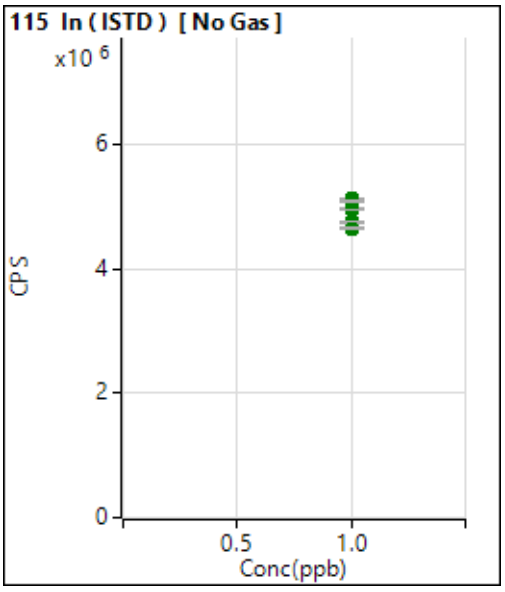
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1020039.89		A	0.1	
2	☐	1.000		1010092.07		A	0.4	
3	☐	1.000		997164.74		A	0.4	
4	☐	1.000		983995.18		A	0.9	
5	☐	1.000		914781.54		A	0.5	
6	☐	1.000		872359.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3646514.53		A	0.5	
2	☐	1.000		3626668.49		A	0.5	
3	☐	1.000		3566538.07		A	0.7	
4	☐	1.000		3519434.43		A	1.0	
5	☐	1.000		3396379.22		A	0.5	
6	☐	1.000		3314861.72		A	0.7	

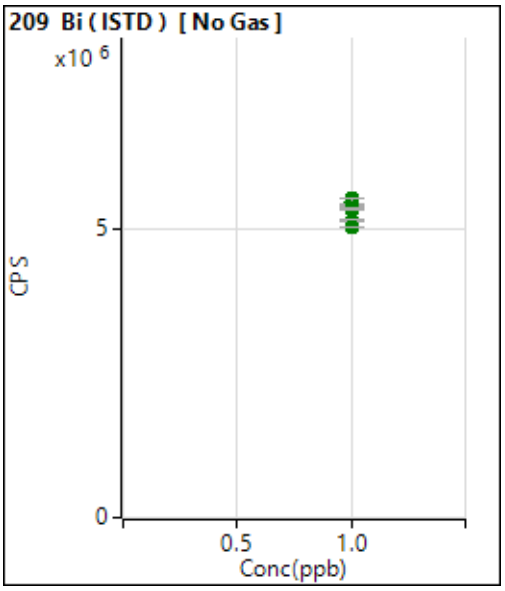


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1051401.00		A	0.4	
2	☐	1.000		1047146.91		A	1.1	
3	☐	1.000		1034070.84		A	0.7	
4	☐	1.000		1020836.86		M	0.5	
5	☐	1.000		969884.26		P	1.3	
6	☐	1.000		969784.23		P	1.1	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5146220.51		A	0.4	
2	☐	1.000		5093500.24		A	0.4	
3	☐	1.000		4969773.97		A	0.3	
4	☐	1.000		4945533.58		A	0.0	
5	☐	1.000		4765147.85		A	0.4	
6	☐	1.000		4662977.46		A	0.7	

Calibration for 140_ICV.d



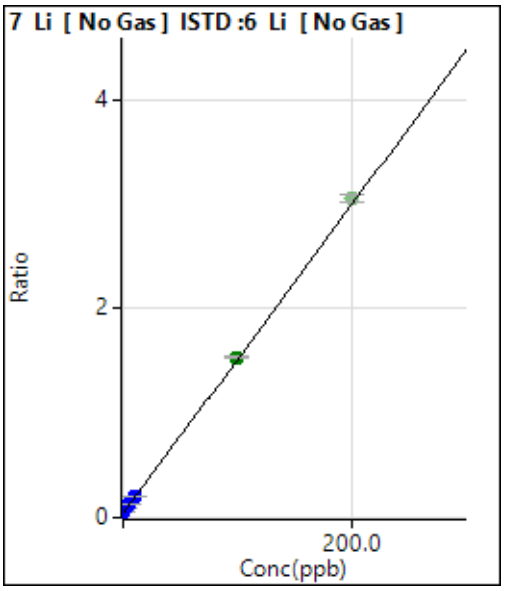
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5548360.75		A	0.4	
2	☐	1.000		5494022.21		A	1.5	
3	☐	1.000		5385780.54		A	0.5	
4	☐	1.000		5360983.46		A	0.5	
5	☐	1.000		5161866.80		A	0.7	
6	☐	1.000		5046773.47		A	0.6	

Calibration for 021_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/26/2024 10:42:15 AM
2	011CALS.d	2/10/200	6/26/2024 10:44:58 AM
3	012CALS.d	5/25/500	6/26/2024 10:47:39 AM
4	013CALS.d	10/50/100	6/26/2024 10:50:20 AM
5	018CALS.d	100/500/10K	6/26/2024 11:06:59 AM
6	019CALS.d	200/1000/20K	6/26/2024 11:09:29 AM

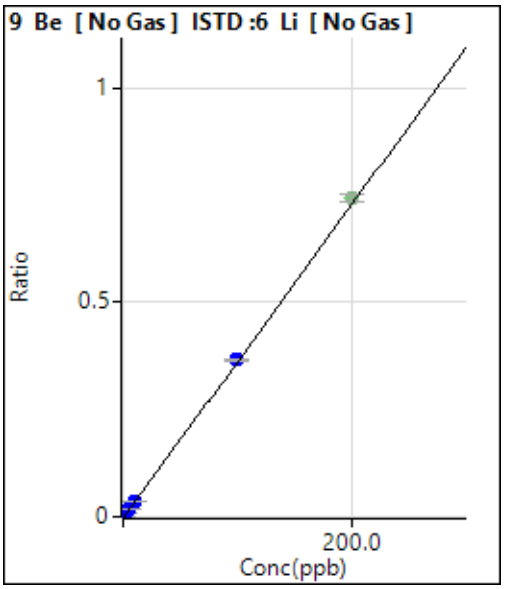
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73766.09	0.0562	P	1.0	
2	☐	2.000	1.894	109167.18	0.0842	P	0.9	-5.3
3	☐	5.000	4.769	161883.22	0.1267	P	1.5	-4.6
4	☐	10.000	9.751	252585.33	0.2002	P	1.7	-2.5
5	☐	100.000	100.039	1839078.05	1.5332	A	1.4	0.0
6	☑	200.000		3466147.03	3.0558	A	2.3	

y = 0.0148 * x + 0.0562
R = 1.0000
DL = 0.1166 ppb
BEC = 3.81 ppb

Weight: <None>
Min Conc: <None>

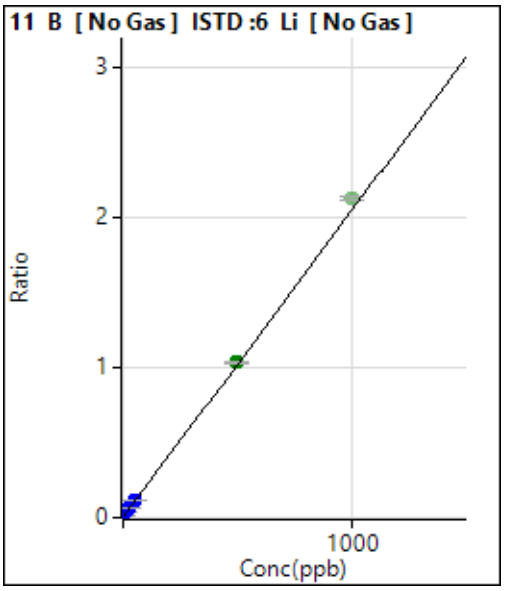


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	151.67	0.0001	P	1.5	
2	☐	2.000	1.920	9258.07	0.0071	P	4.9	-4.0
3	☐	5.000	4.751	22374.32	0.0175	P	3.2	-5.0
4	☐	10.000	9.836	45561.00	0.0361	P	2.1	-1.6
5	☐	100.000	100.030	439242.92	0.3662	P	1.8	0.0
6	☑	200.000		843817.41	0.7439	A	2.9	

y = 0.0037 * x + 1.1564E-004
R = 1.0000
DL = 0.001434 ppb
BEC = 0.0316 ppb

Weight: <None>
Min Conc: <None>

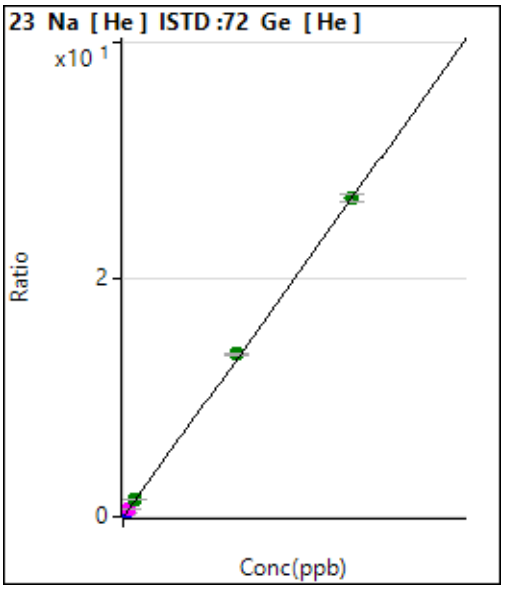
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18710.69	0.0143	P	0.2	
2	☐	10.000	9.980	44891.16	0.0346	P	2.1	-0.2
3	☐	25.000	23.408	79277.84	0.0620	P	2.1	-6.4
4	☐	50.000	48.870	143787.28	0.1140	P	1.6	-2.3
5	☐	500.000	500.193	1241149.15	1.0347	A	1.0	0.0
6	☑	1000.000		2411542.31	2.1260	A	1.8	

y = 0.0020 * x + 0.0143
R = 1.0000
DL = 0.04583 ppb
BEC = 6.993 ppb

Weight: <None>
Min Conc: <None>

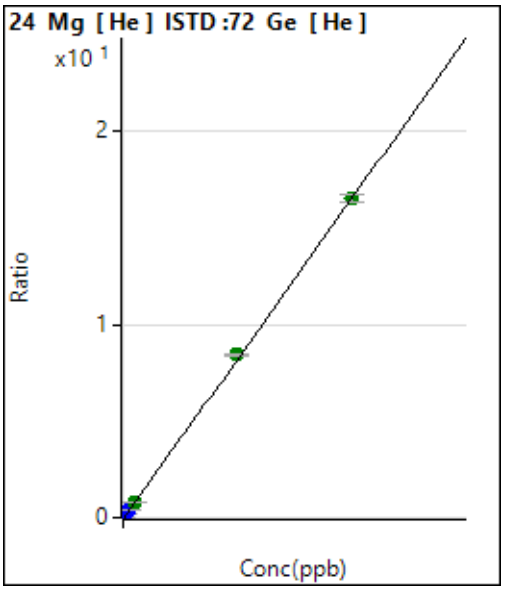


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95799.83	0.0935	P	1.4	
2	☐	200.000	187.897	353013.68	0.3458	P	1.4	-6.1
3	☐	500.000	462.260	725631.21	0.7142	M	3.3	-7.5
4	☐	1000.000	990.753	1443041.90	1.4238	A	1.6	-0.9
5	☐	10000.00	10152.23	13562841.88	13.7248	A	1.1	1.5
6	☐	20000.00	19925.40	26127261.28	26.8471	A	2.0	-0.4

y = 0.0013 * x + 0.0935
R = 1.0000
DL = 2.973 ppb
BEC = 69.67 ppb

Weight: <None>
Min Conc: <None>

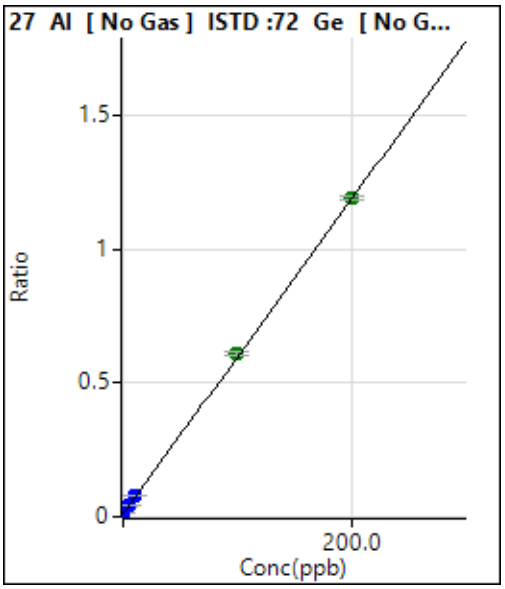
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1183.40	0.0012	P	12.3	
2	☐	200.000	190.743	163017.44	0.1597	P	2.6	-4.6
3	☐	500.000	465.178	393954.77	0.3878	P	3.2	-7.0
4	☐	1000.000	991.890	836660.51	0.8255	A	1.8	-0.8
5	☐	10000.00	10171.81	8355099.04	8.4548	A	1.2	1.7
6	☐	20000.00	19915.46	16108926.43	16.5527	A	2.7	-0.4

y = 8.3109E-004 * x + 0.0012
R = 0.9999
DL = 0.5122 ppb
BEC = 1.391 ppb

Weight: <None>
Min Conc: <None>

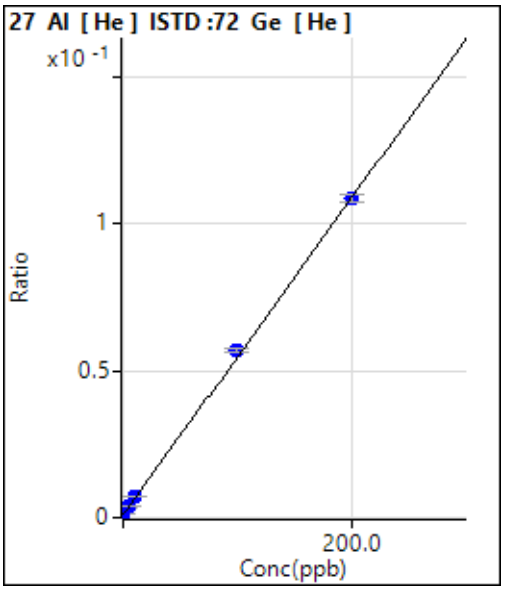


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59947.83	0.0165	P	1.1	
2	☐	2.000	3.347	130486.80	0.0363	P	3.7	67.3
3	☐	5.000	4.917	162171.59	0.0455	P	1.8	-1.7
4	☐	10.000	10.481	276085.77	0.0783	P	1.8	4.8
5	☐	100.000	100.685	2108614.08	0.6102	A	1.7	0.7
6	☐	200.000	199.622	3998173.79	1.1936	A	1.4	-0.2

y = 0.0059 * x + 0.0165
R = 1.0000
DL = 0.09435 ppb
BEC = 2.804 ppb

Weight: <None>
Min Conc: <None>

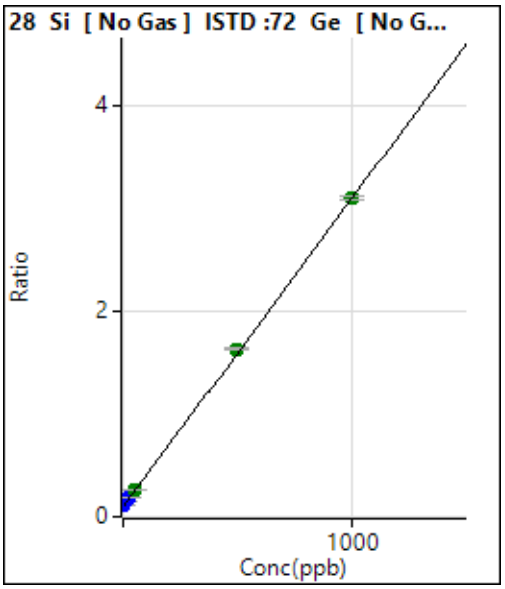
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1503.44	0.0015	P	16.4	
2	☐	2.000	3.164	3243.77	0.0032	P	8.6	58.2
3	☐	5.000	4.704	4070.66	0.0040	P	5.1	-5.9
4	☐	10.000	10.398	7175.28	0.0071	P	0.6	4.0
5	☐	100.000	102.614	56178.74	0.0569	P	3.0	2.6
6	☐	200.000	198.669	105778.78	0.1087	P	2.6	-0.7

y = 5.3971E-004 * x + 0.0015
R = 0.9999
DL = 1.335 ppb
BEC = 2.72 ppb

Weight: <None>
Min Conc: <None>

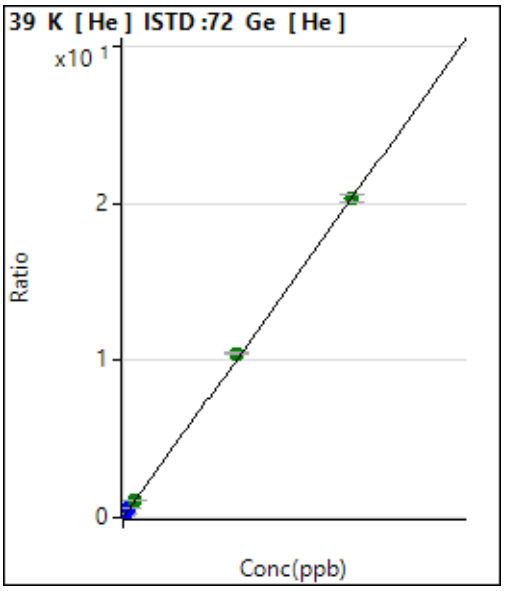


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	409185.78	0.1129	P	1.3	
2	☐	10.000	11.595	531313.48	0.1477	P	1.2	16.0
3	☐	25.000	25.576	675399.63	0.1896	P	1.1	2.3
4	☐	50.000	51.490	942177.72	0.2673	A	1.4	3.0
5	☐	500.000	505.434	5629439.92	1.6291	A	1.4	1.1
6	☐	1000.000	997.178	10398479.43	3.1042	A	1.2	-0.3

y = 0.0030 * x + 0.1129
R = 1.0000
DL = 1.499 ppb
BEC = 37.63 ppb

Weight: <None>
Min Conc: <None>

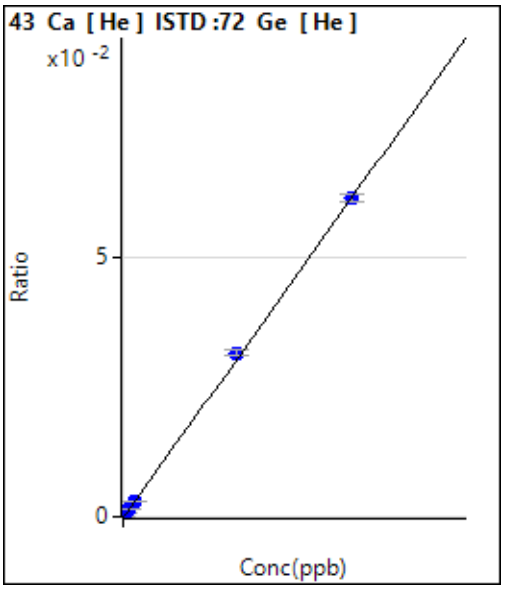
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96273.60	0.0940	P	0.9	
2	☐	200.000	190.380	293450.63	0.2875	P	1.4	-4.8
3	☐	500.000	461.318	571831.06	0.5628	P	1.6	-7.7
4	☐	1000.000	986.820	1111672.46	1.0969	A	1.6	-1.3
5	☐	10000.00	10189.95	10326336.30	10.4496	A	1.3	1.9
6	☐	20000.00	19906.74	19779665.54	20.3243	A	2.3	-0.5

y = 0.0010 * x + 0.0940
R = 0.9999
DL = 2.521 ppb
BEC = 92.49 ppb

Weight: <None>
Min Conc: <None>

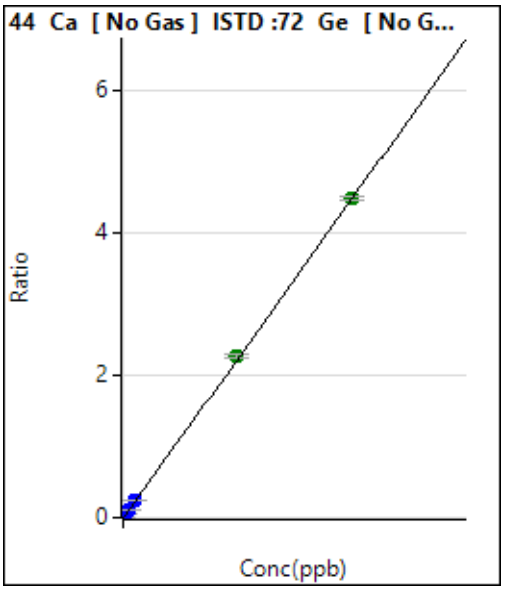


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	53.3	
2	☐	200.000	197.281	670.03	0.0007	P	8.0	-1.4
3	☐	500.000	436.412	1420.10	0.0014	P	9.9	-12.7
4	☐	1000.000	957.556	3053.72	0.0030	P	5.7	-4.2
5	☐	10000.00	10223.79	31352.24	0.0317	P	3.0	2.2
6	☐	20000.00	19891.84	60032.57	0.0617	P	2.9	-0.5

y = 3.0987E-006 * x + 4.5465E-005
R = 0.9999
DL = 23.48 ppb
BEC = 14.67 ppb

Weight: <None>
Min Conc: <None>

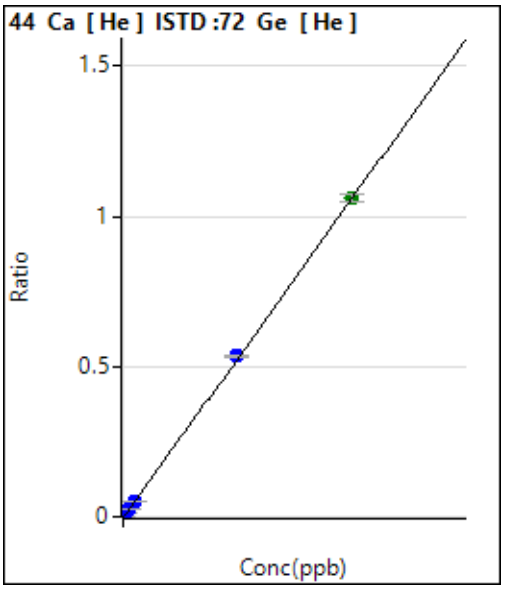
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38924.97	0.0107	P	1.2	
2	☐	200.000	202.706	202207.96	0.0562	P	3.9	1.4
3	☐	500.000	486.698	427151.40	0.1199	P	2.1	-2.7
4	☐	1000.000	994.165	823782.98	0.2337	P	2.1	-0.6
5	☐	10000.00	10094.04	7861349.67	2.2750	A	1.8	0.9
6	☐	20000.00	19953.57	15029153.94	4.4866	A	1.1	-0.2

y = 2.2432E-004 * x + 0.0107
R = 1.0000
DL = 1.669 ppb
BEC = 47.86 ppb

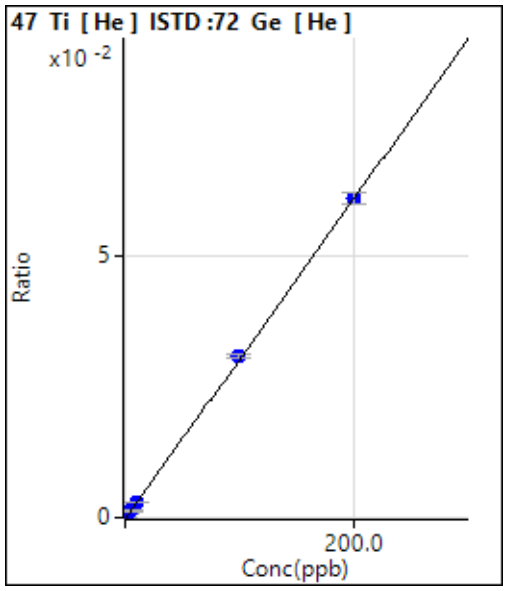
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0008	P	14.0	
2	☐	200.000	199.401	11671.74	0.0114	P	3.5	-0.3
3	☐	500.000	457.772	25560.40	0.0252	P	4.4	-8.4
4	☐	1000.000	987.118	53995.18	0.0533	P	1.2	-1.3
5	☐	10000.00	10079.51	529956.54	0.5363	P	0.9	0.8
6	☐	20000.00	19961.94	1032824.41	1.0613	A	2.8	-0.2

y = 5.3122E-005 * x + 8.4230E-004
R = 1.0000
DL = 6.667 ppb
BEC = 15.86 ppb

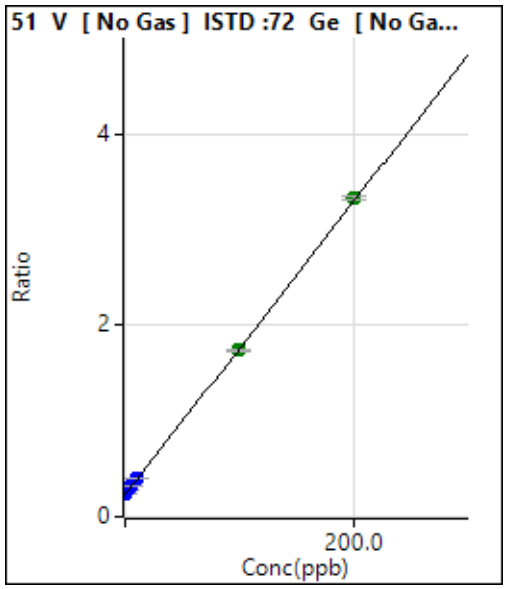
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.065	650.02	0.0006	P	9.5	3.2
3	☐	5.000	4.398	1370.10	0.0013	P	16.5	-12.0
4	☐	10.000	9.405	2917.03	0.0029	P	5.6	-5.9
5	☐	100.000	101.126	30517.18	0.0309	P	2.3	1.1
6	☐	200.000	199.481	59276.58	0.0609	P	3.8	-0.3

y = 3.0530E-004 * x + 6.4965E-006
R = 1.0000
DL = 0.05529 ppb
BEC = 0.02128 ppb

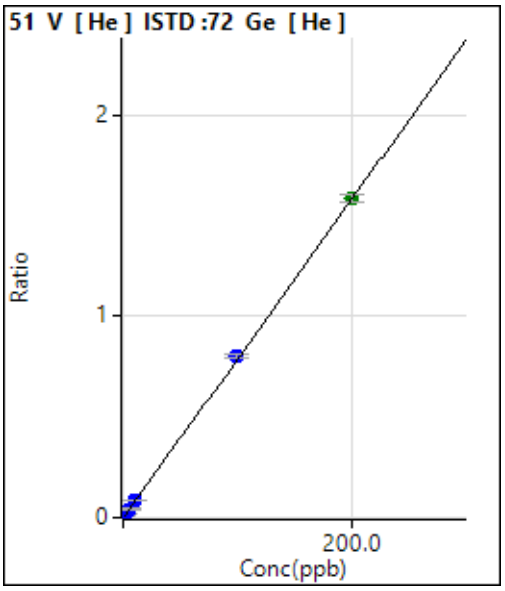
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	898774.18	0.2479	P	0.4	
2	☐	2.000	1.942	998926.92	0.2776	P	2.9	-2.9
3	☐	5.000	4.451	1125876.97	0.3161	P	1.5	-11.0
4	☐	10.000	10.135	1420588.30	0.4031	P	1.3	1.4
5	☐	100.000	97.249	6001487.77	1.7367	A	1.9	-2.8
6	☐	200.000	201.383	11158012.07	3.3310	A	1.3	0.7

y = 0.0153 * x + 0.2479
R = 0.9999
DL = 0.2155 ppb
BEC = 16.19 ppb

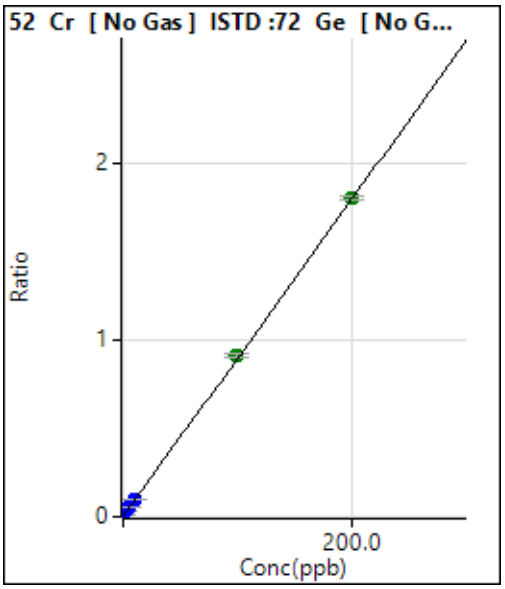
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6458.20	0.0063	P	3.0	
2	☐	2.000	1.912	21895.13	0.0214	P	2.4	-4.4
3	☐	5.000	4.587	43309.59	0.0426	P	3.5	-8.3
4	☐	10.000	9.690	84156.78	0.0830	P	1.7	-3.1
5	☐	100.000	100.595	793394.60	0.8029	P	1.5	0.6
6	☐	200.000	199.729	1545285.35	1.5878	A	2.5	-0.1

y = 0.0079 * x + 0.0063
R = 1.0000
DL = 0.07219 ppb
BEC = 0.7964 ppb

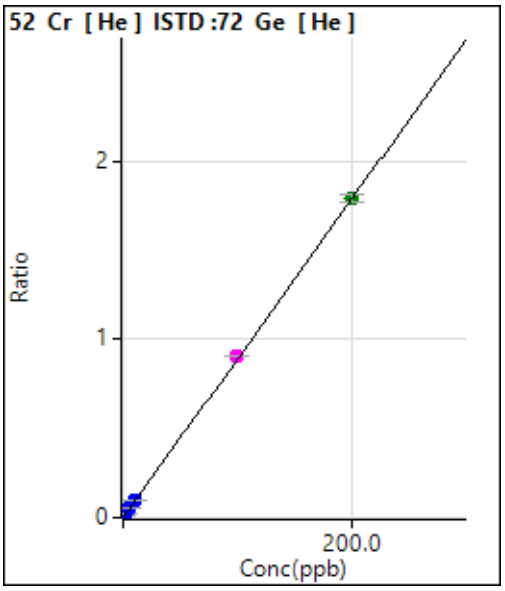
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38527.15	0.0106	P	1.1	
2	☐	2.000	1.935	100543.18	0.0279	P	4.0	-3.3
3	☐	5.000	4.767	189908.25	0.0533	P	2.3	-4.7
4	☐	10.000	9.750	345108.59	0.0979	P	1.7	-2.5
5	☐	100.000	100.259	3138553.39	0.9083	A	2.1	0.3
6	☐	200.000	199.889	6030638.45	1.8003	A	1.7	-0.1

y = 0.0090 * x + 0.0106
R = 1.0000
DL = 0.04009 ppb
BEC = 1.187 ppb

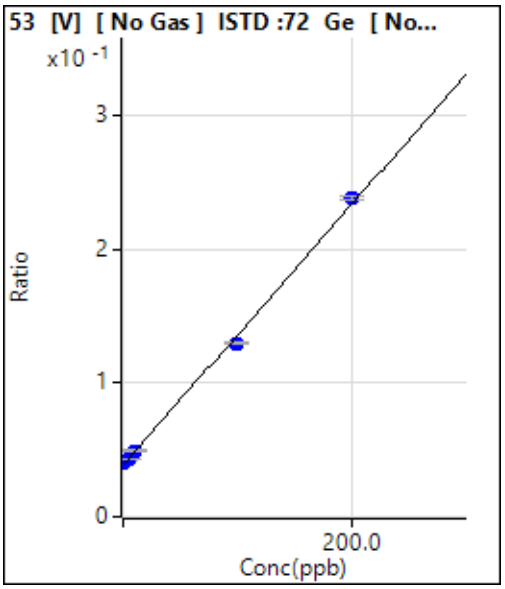
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8549.46	0.0083	P	1.0	
2	☐	2.000	1.875	25620.65	0.0251	P	0.7	-6.2
3	☐	5.000	4.722	51335.22	0.0505	P	4.7	-5.6
4	☐	10.000	10.025	99219.98	0.0979	P	1.7	0.2
5	☐	100.000	100.803	898049.36	0.9088	M	0.4	0.8
6	☐	200.000	199.605	1743351.59	1.7914	A	2.4	-0.2

y = 0.0089 * x + 0.0083
R = 1.0000
DL = 0.02943 ppb
BEC = 0.9345 ppb

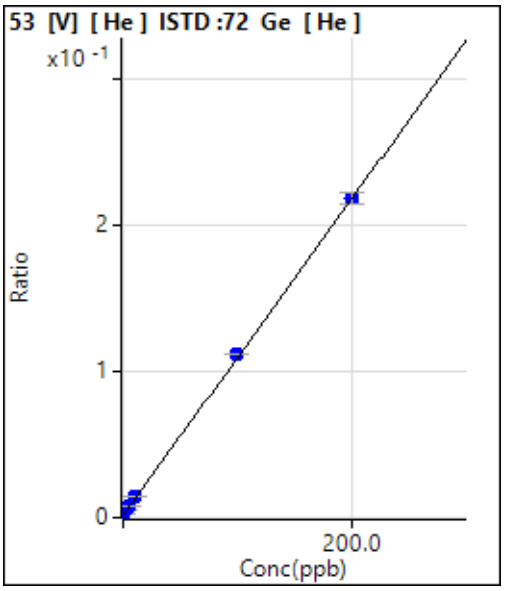
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145003.04	0.0400	P	0.4	
2	☐	2.000	1.823	150279.69	0.0418	P	2.7	-8.9
3	☐	5.000	3.259	153763.79	0.0432	P	1.3	-34.8
4	☐	10.000	9.700	174195.21	0.0494	P	1.0	-3.0
5	☐	100.000	92.327	448321.17	0.1297	P	1.6	-7.7
6	☐	200.000	203.897	797864.18	0.2382	P	1.3	1.9

y = 9.7199E-004 * x + 0.0400
R = 0.9990
DL = 0.4971 ppb
BEC = 41.15 ppb

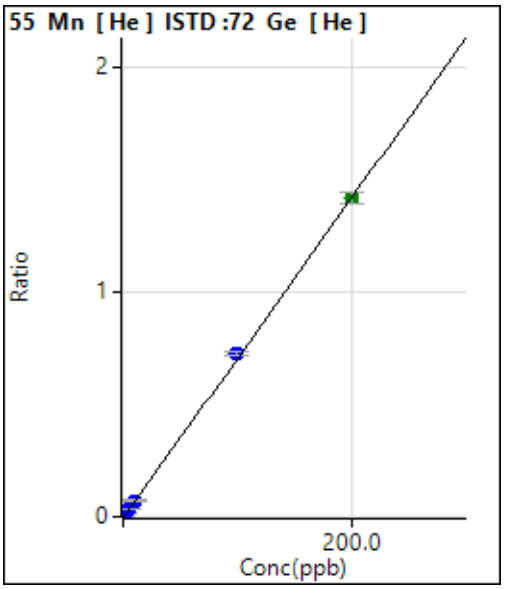
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2686.98	0.0026	P	8.2	
2	☐	2.000	1.934	4814.27	0.0047	P	3.2	-3.3
3	☐	5.000	4.696	7825.72	0.0077	P	6.7	-6.1
4	☐	10.000	10.570	14247.55	0.0141	P	0.5	5.7
5	☐	100.000	101.208	110789.82	0.1121	P	0.5	1.2
6	☐	200.000	199.376	212472.27	0.2183	P	3.2	-0.3

y = 0.0011 * x + 0.0026
R = 1.0000
DL = 0.5932 ppb
BEC = 2.425 ppb

Weight: <None>
Min Conc: <None>

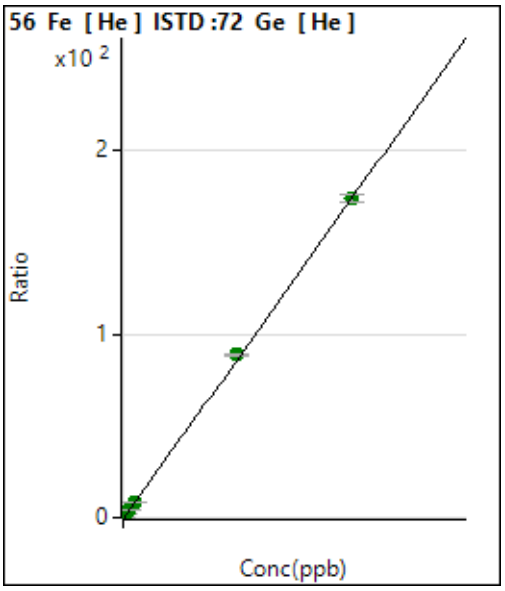


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.71	0.0008	P	21.6	
2	☐	2.000	1.969	15095.15	0.0148	P	4.3	-1.6
3	☐	5.000	4.654	34429.88	0.0339	P	0.8	-6.9
4	☐	10.000	10.065	73347.84	0.0724	P	2.3	0.6
5	☐	100.000	102.130	718660.02	0.7272	P	1.8	2.1
6	☐	200.000	198.941	1377896.85	1.4158	A	3.1	-0.5

y = 0.0071 * x + 7.7875E-004
R = 0.9999
DL = 0.07085 ppb
BEC = 0.1095 ppb

Weight: <None>
Min Conc: <None>

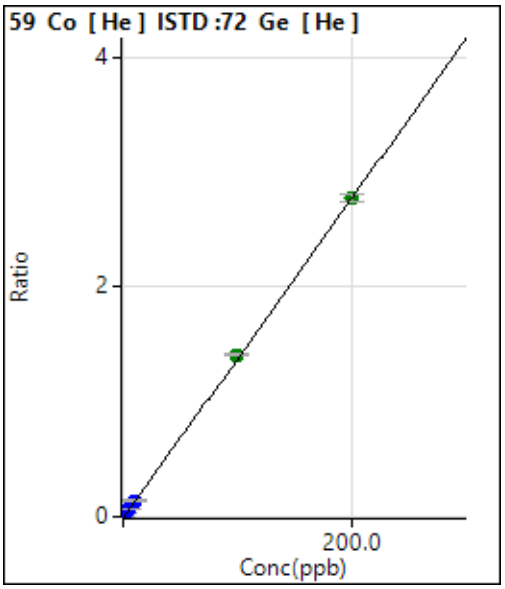
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15725.88	0.0154	P	2.0	
2	☐	200.000	193.738	1745375.60	1.7098	A	1.8	-3.1
3	☐	500.000	463.555	4134670.77	4.0696	A	3.4	-7.3
4	☐	1000.000	996.475	8848571.12	8.7306	A	1.8	-0.4
5	☐	10000.00	10179.44	87995328.69	89.0452	A	1.4	1.8
6	☐	20000.00	19911.42	169492937.4	174.161	A	2.7	-0.4

y = 0.0087 * x + 0.0154
R = 0.9999
DL = 0.1062 ppb
BEC = 1.755 ppb

Weight: <None>
Min Conc: <None>

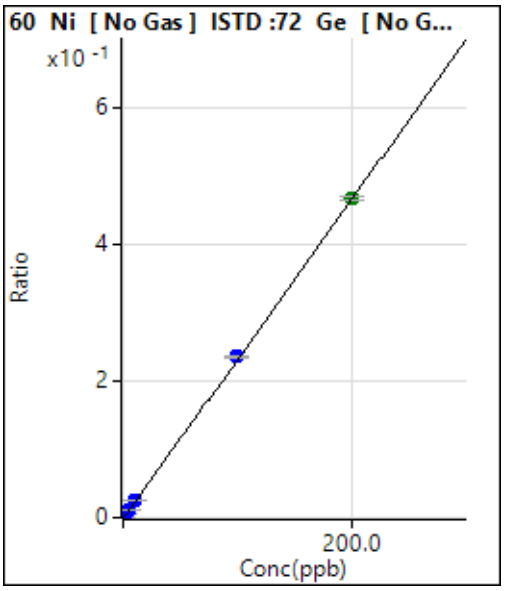


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	6.7	
2	☐	2.000	1.935	27958.63	0.0274	P	3.6	-3.3
3	☐	5.000	4.711	67066.13	0.0660	P	2.9	-5.8
4	☐	10.000	10.116	143133.87	0.1412	P	2.4	1.2
5	☐	100.000	101.294	1393368.26	1.4100	A	1.3	1.3
6	☐	200.000	199.355	2700154.85	2.7745	A	2.0	-0.3

y = 0.0139 * x + 4.6201E-004
R = 1.0000
DL = 0.006679 ppb
BEC = 0.0332 ppb

Weight: <None>
Min Conc: <None>

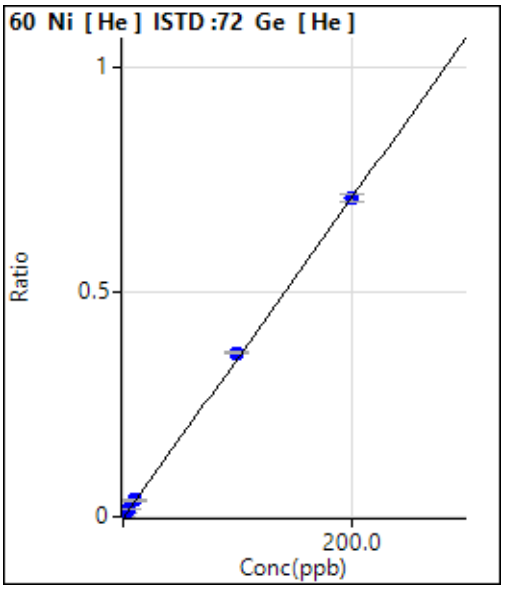
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1140.07	0.0003	P	12.1	
2	☐	2.000	2.089	18719.66	0.0052	P	4.2	4.5
3	☐	5.000	4.963	42488.93	0.0119	P	1.5	-0.7
4	☐	10.000	10.242	85568.15	0.0243	P	1.6	2.4
5	☐	100.000	100.481	813536.68	0.2354	P	2.1	0.5
6	☐	200.000	199.747	1566698.83	0.4677	A	1.4	-0.1

y = 0.0023 * x + 3.1434E-004
R = 1.0000
DL = 0.04884 ppb
BEC = 0.1343 ppb

Weight: <None>
Min Conc: <None>

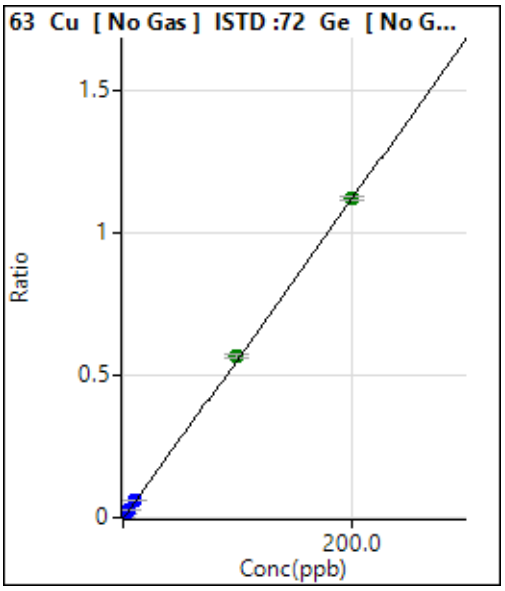


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0003	P	21.5	
2	☐	2.000	1.940	7388.77	0.0072	P	3.1	-3.0
3	☐	5.000	4.780	17651.59	0.0174	P	6.0	-4.4
4	☐	10.000	10.132	36963.30	0.0365	P	5.2	1.3
5	☐	100.000	101.993	359924.07	0.3642	P	1.1	2.0
6	☐	200.000	199.003	691304.39	0.7103	P	2.6	-0.5

y = 0.0036 * x + 3.1933E-004
R = 0.9999
DL = 0.05785 ppb
BEC = 0.0895 ppb

Weight: <None>
Min Conc: <None>

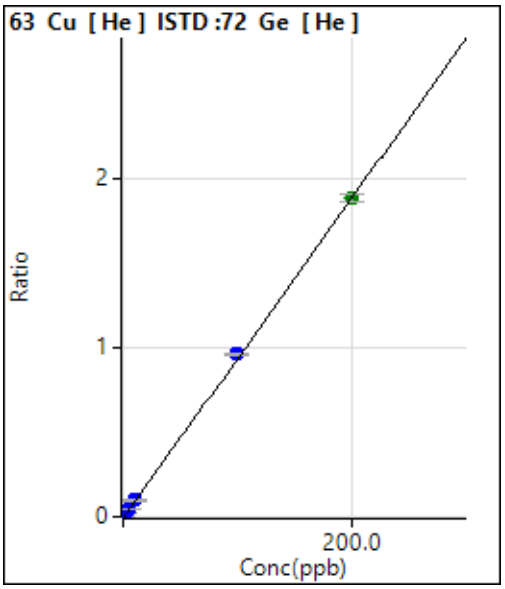
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.29	0.0007	P	7.0	
2	☐	2.000	2.079	44542.26	0.0124	P	4.3	3.9
3	☐	5.000	5.127	105069.14	0.0295	P	3.1	2.5
4	☐	10.000	10.392	208124.53	0.0591	P	1.4	3.9
5	☐	100.000	100.871	1959324.09	0.5670	A	1.9	0.9
6	☐	200.000	199.541	3754985.15	1.1210	A	1.6	-0.2

y = 0.0056 * x + 7.1180E-004
R = 1.0000
DL = 0.02647 ppb
BEC = 0.1268 ppb

Weight: <None>
Min Conc: <None>

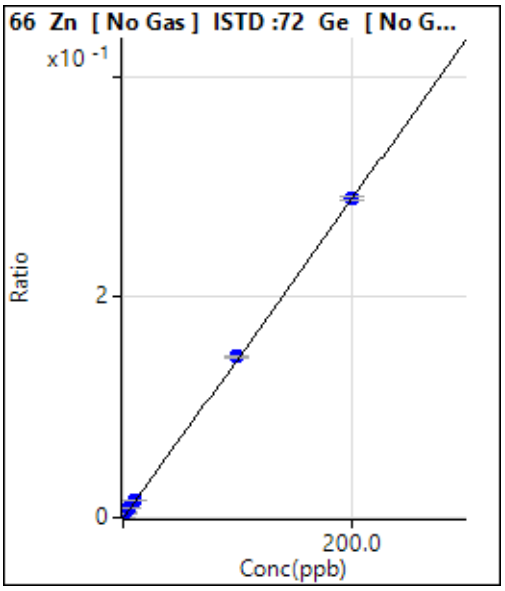


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0006	P	11.1	
2	☐	2.000	2.075	20655.78	0.0202	P	1.1	3.8
3	☐	5.000	4.764	46384.96	0.0457	P	3.5	-4.7
4	☐	10.000	10.175	98121.35	0.0968	P	1.4	1.8
5	☐	100.000	101.490	948807.85	0.9601	P	1.9	1.5
6	☐	200.000	199.252	1833855.39	1.8844	A	2.4	-0.4

y = 0.0095 * x + 6.1822E-004
R = 1.0000
DL = 0.02173 ppb
BEC = 0.06539 ppb

Weight: <None>
Min Conc: <None>

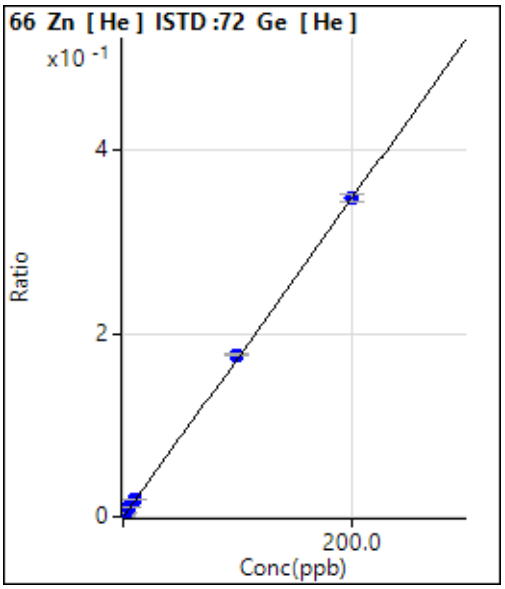
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2643.64	0.0007	P	3.0	
2	☐	2.000	2.593	16123.09	0.0045	P	7.0	29.7
3	☐	5.000	5.195	29385.03	0.0082	P	1.9	3.9
4	☐	10.000	10.221	54709.16	0.0155	P	2.4	2.2
5	☐	100.000	100.589	505658.04	0.1463	P	1.6	0.6
6	☐	200.000	199.684	970670.46	0.2898	P	1.7	-0.2

y = 0.0014 * x + 7.2926E-004
R = 1.0000
DL = 0.04504 ppb
BEC = 0.5038 ppb

Weight: <None>
Min Conc: <None>

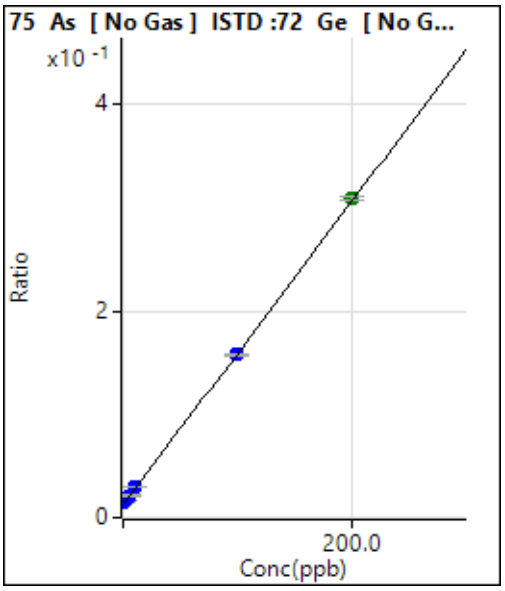


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0011	P	12.7	
2	☐	2.000	2.324	5207.73	0.0051	P	4.5	16.2
3	☐	5.000	5.027	9963.76	0.0098	P	2.6	0.5
4	☐	10.000	9.938	18599.57	0.0184	P	1.3	-0.6
5	☐	100.000	101.169	175068.72	0.1772	P	1.0	1.2
6	☐	200.000	199.415	338842.07	0.3482	P	2.1	-0.3

y = 0.0017 * x + 0.0011
R = 1.0000
DL = 0.2308 ppb
BEC = 0.6061 ppb

Weight: <None>
Min Conc: <None>

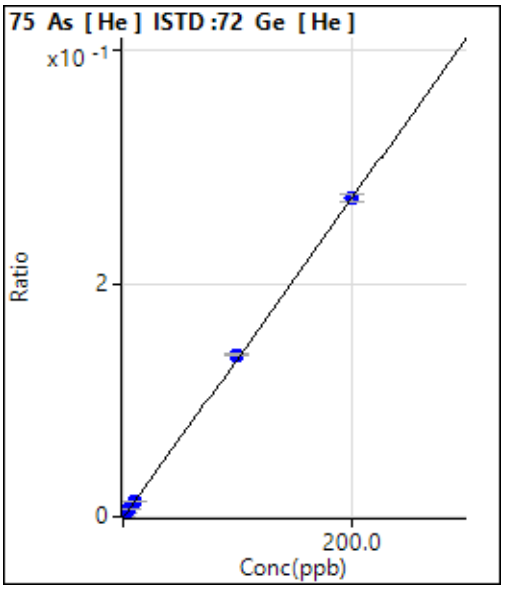
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	51447.16	0.0142	P	0.6	
2	☐	2.000	2.131	62315.82	0.0173	P	1.5	6.5
3	☐	5.000	4.885	76095.41	0.0214	P	3.2	-2.3
4	☐	10.000	10.130	102418.59	0.0291	P	1.2	1.3
5	☐	100.000	97.748	544819.98	0.1577	P	2.0	-2.3
6	☐	200.000	201.121	1036374.02	0.3094	A	1.2	0.6

y = 0.0015 * x + 0.0142
R = 0.9999
DL = 0.1756 ppb
BEC = 9.669 ppb

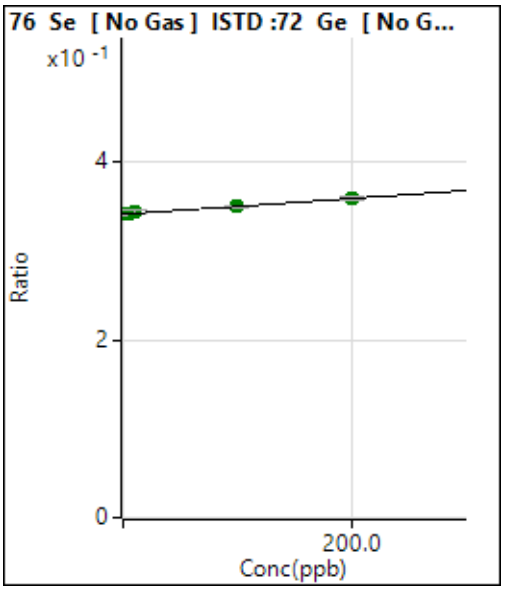
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	275.56	0.0003	P	9.7	
2	☐	2.000	1.951	3008.13	0.0029	P	1.0	-2.4
3	☐	5.000	4.533	6592.74	0.0065	P	2.9	-9.3
4	☐	10.000	9.887	14022.77	0.0138	P	1.3	-1.1
5	☐	100.000	101.339	137682.54	0.1393	P	1.5	1.3
6	☐	200.000	199.349	266474.03	0.2738	P	2.3	-0.3

y = 0.0014 * x + 2.6901E-004
R = 1.0000
DL = 0.0568 ppb
BEC = 0.196 ppb

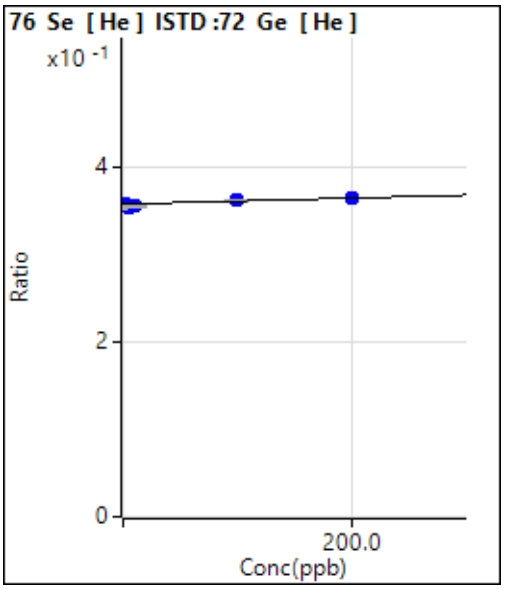
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1237660.55	0.3414	A	0.5	
2	☐	2.000	-1.887	1227906.99	0.3412	A	0.9	-194.3
3	☐	5.000	-1.017	1215855.47	0.3413	A	0.9	-120.3
4	☐	10.000	35.309	1214376.88	0.3446	A	0.9	253.1
5	☐	100.000	96.003	1209468.21	0.3500	A	0.3	-4.0
6	☐	200.000	200.922	1203818.55	0.3594	A	0.7	0.5

y = 8.9525E-005 * x + 0.3414
R = 0.9897
DL = 55.62 ppb
BEC = 3814 ppb

Weight: <None>
Min Conc: <None>

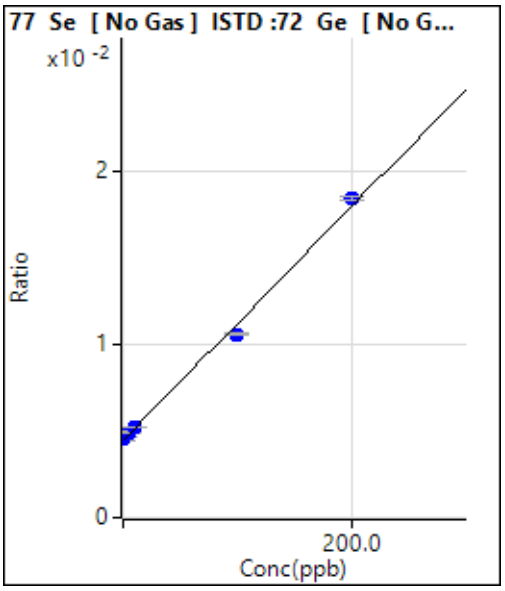


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366192.12	0.3575	P	1.4	
2	☐	2.000	3.643	365071.79	0.3576	P	0.5	82.2
3	☐	5.000	-134.215	358527.12	0.3529	P	0.9	-2784.3
4	☐	10.000	-74.147	359722.92	0.3549	P	0.4	-841.5
5	☐	100.000	112.851	357152.25	0.3614	P	0.7	12.9
6	☐	200.000	201.246	354728.94	0.3645	P	0.2	0.6

y = 3.4707E-005 * x + 0.3575
R = 0.8878
DL = 421.7 ppb
BEC = 1.03E+04 ppb

Weight: <None>
Min Conc: <None>

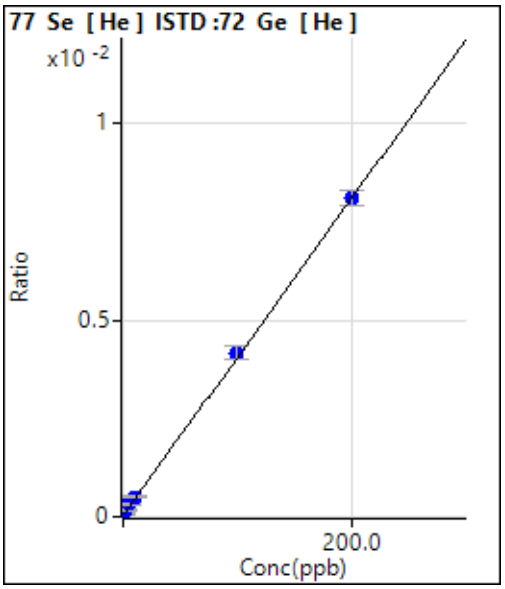
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16567.02	0.0046	P	3.3	
2	☐	2.000	3.590	17307.97	0.0048	P	5.7	79.5
3	☐	5.000	5.083	17498.25	0.0049	P	2.2	1.7
4	☐	10.000	9.865	18449.49	0.0052	P	1.1	-1.4
5	☐	100.000	88.905	36515.87	0.0106	P	1.3	-11.1
6	☐	200.000	205.536	61753.39	0.0184	P	1.6	2.8

y = 6.7460E-005 * x + 0.0046
R = 0.9978
DL = 6.633 ppb
BEC = 67.74 ppb

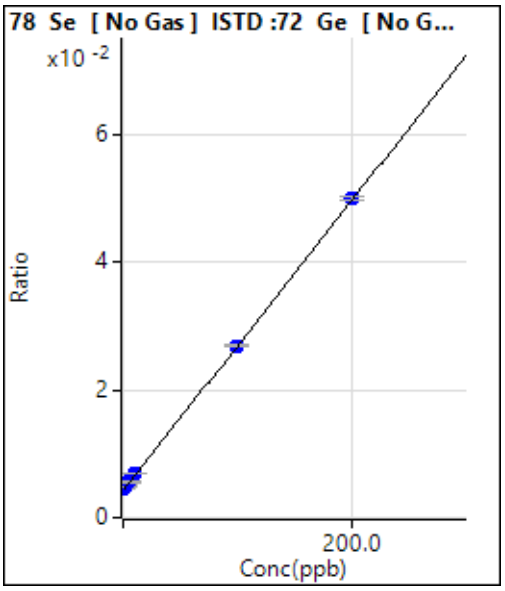
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	40.3	
2	☐	2.000	1.955	156.67	0.0002	P	32.3	-2.2
3	☐	5.000	6.357	336.68	0.0003	P	11.5	27.1
4	☐	10.000	10.697	513.35	0.0005	P	7.0	7.0
5	☐	100.000	101.492	4120.70	0.0042	P	7.8	1.5
6	☐	200.000	199.186	7892.41	0.0081	P	4.7	-0.4

y = 4.0337E-005 * x + 7.4969E-005
R = 0.9999
DL = 2.248 ppb
BEC = 1.859 ppb

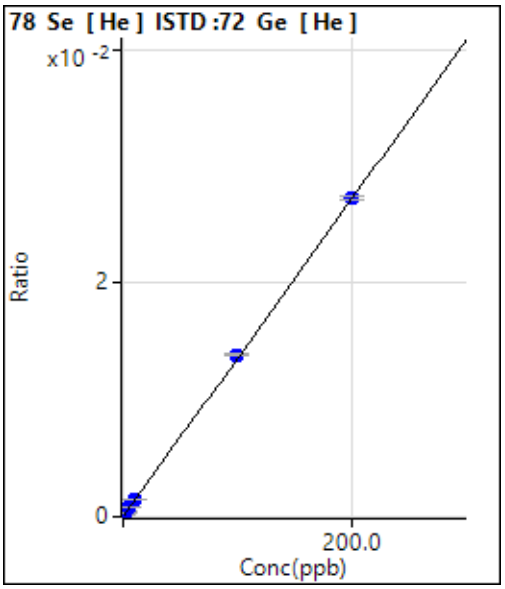
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16319.97	0.0045	P	3.2	
2	☐	2.000	1.964	17805.22	0.0049	P	2.2	-1.8
3	☐	5.000	4.774	19898.11	0.0056	P	2.7	-4.5
4	☐	10.000	10.228	24051.54	0.0068	P	1.1	2.3
5	☐	100.000	98.925	93174.56	0.0270	P	2.1	-1.1
6	☐	200.000	200.532	167600.48	0.0500	P	1.4	0.3

y = 2.2705E-004 * x + 0.0045
R = 1.0000
DL = 1.893 ppb
BEC = 19.83 ppb

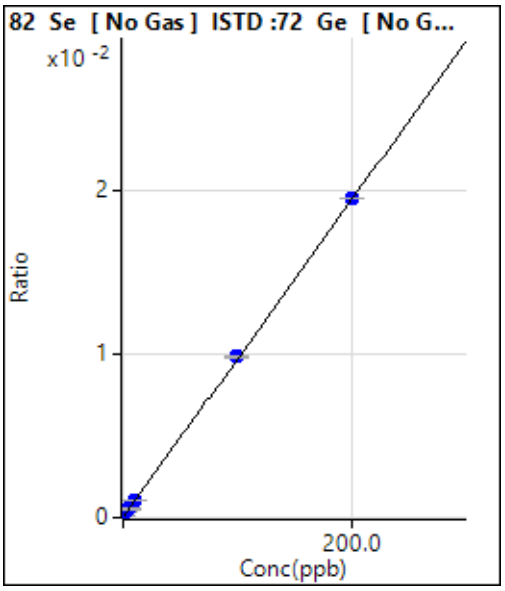
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	9.6	
2	☐	2.000	1.909	418.01	0.0004	P	5.2	-4.5
3	☐	5.000	4.559	782.02	0.0008	P	5.3	-8.8
4	☐	10.000	9.724	1492.09	0.0015	P	2.1	-2.8
5	☐	100.000	100.609	13671.52	0.0138	P	1.3	0.6
6	☐	200.000	199.721	26583.17	0.0273	P	1.7	-0.1

y = 1.3602E-004 * x + 1.4967E-004
R = 1.0000
DL = 0.3154 ppb
BEC = 1.1 ppb

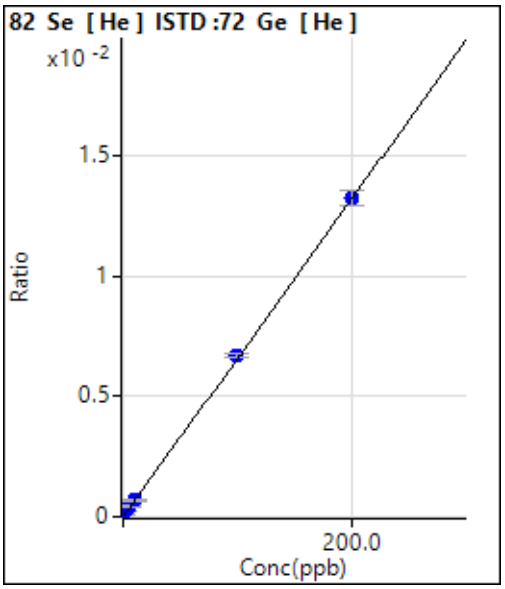
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	456.68	0.0001	P	5.8	
2	☐	2.000	1.884	1110.07	0.0003	P	8.5	-5.8
3	☐	5.000	4.376	1956.84	0.0005	P	16.8	-12.5
4	☐	10.000	9.841	3800.62	0.0011	P	3.4	-1.6
5	☐	100.000	100.091	33909.42	0.0098	P	1.1	0.1
6	☐	200.000	199.979	65250.04	0.0195	P	0.5	0.0

y = 9.6778E-005 * x + 1.2599E-004
R = 1.0000
DL = 0.228 ppb
BEC = 1.302 ppb

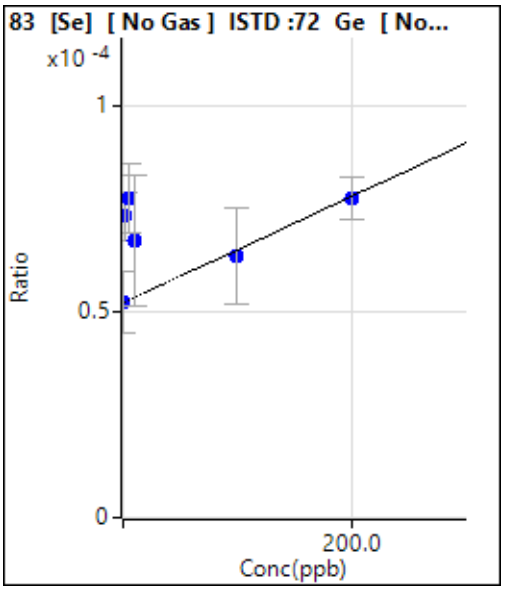
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	48.3	
2	☐	2.000	2.876	256.67	0.0003	P	20.3	43.8
3	☐	5.000	5.325	420.01	0.0004	P	14.6	6.5
4	☐	10.000	9.478	696.70	0.0007	P	6.5	-5.2
5	☐	100.000	100.664	6628.38	0.0067	P	2.2	0.7
6	☐	200.000	199.677	12889.65	0.0132	P	4.7	-0.2

y = 6.6026E-005 * x + 6.1791E-005
R = 1.0000
DL = 1.355 ppb
BEC = 0.9359 ppb

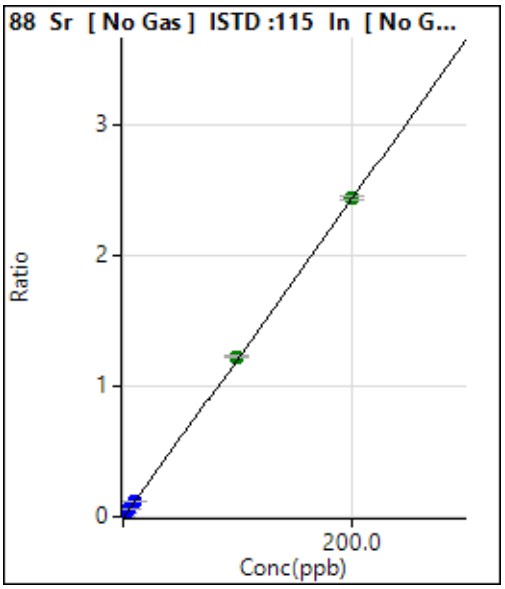
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0001	P	29.2	
2	☐	2.000	160.998	263.34	0.0001	P	15.7	7949.9
3	☐	5.000	195.136	276.67	0.0001	P	21.8	3802.7
4	☐	10.000	113.850	236.67	0.0001	P	47.4	1038.5
5	☐	100.000	87.172	220.01	0.0001	P	36.3	-12.8
6	☐	200.000	194.878	260.01	0.0001	P	13.6	-2.6

y = 1.2939E-007 * x + 5.2389E-005
R = 0.3384
DL = 354.2 ppb
BEC = 404.9 ppb

Weight: <None>
Min Conc: <None>

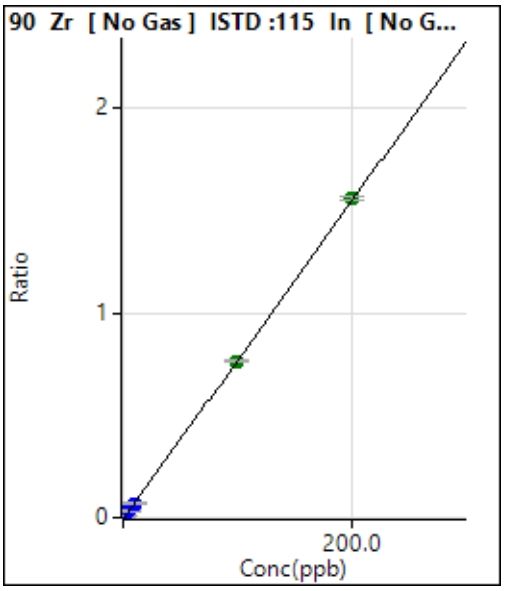


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2720.33	0.0006	P	1.3	
2	☐	2.000	1.918	115680.83	0.0240	P	3.6	-4.1
3	☐	5.000	4.674	274822.35	0.0577	P	2.7	-6.5
4	☐	10.000	9.606	558292.01	0.1179	P	1.2	-3.9
5	☐	100.000	100.334	5622582.41	1.2266	A	1.6	0.3
6	☐	200.000	199.862	10854979.42	2.4427	A	1.6	-0.1

y = 0.0122 * x + 5.6362E-004
R = 1.0000
DL = 0.001788 ppb
BEC = 0.04613 ppb

Weight: <None>
Min Conc: <None>

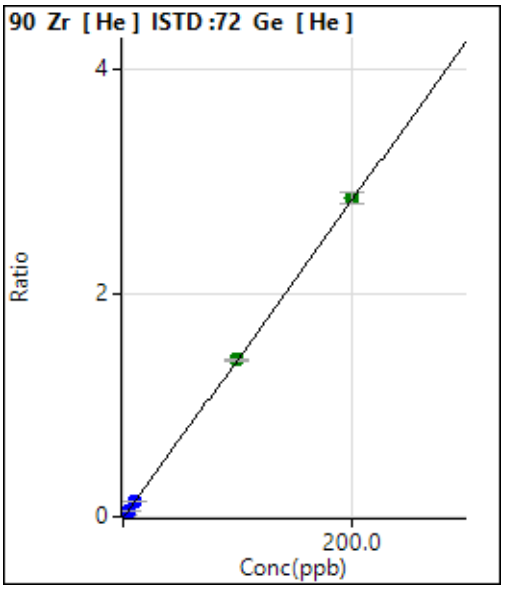
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1500.12	0.0003	P	4.5	
2	☐	2.000	1.579	60605.85	0.0126	P	3.5	-21.1
3	☐	5.000	4.224	157845.84	0.0331	P	1.6	-15.5
4	☐	10.000	9.031	333555.66	0.0705	P	1.3	-9.7
5	☐	100.000	98.493	3508521.30	0.7654	A	1.6	-1.5
6	☐	200.000	200.825	6933572.40	1.5603	A	1.7	0.4

y = 0.0078 * x + 3.1077E-004
R = 1.0000
DL = 0.005422 ppb
BEC = 0.04001 ppb

Weight: <None>
Min Conc: <None>

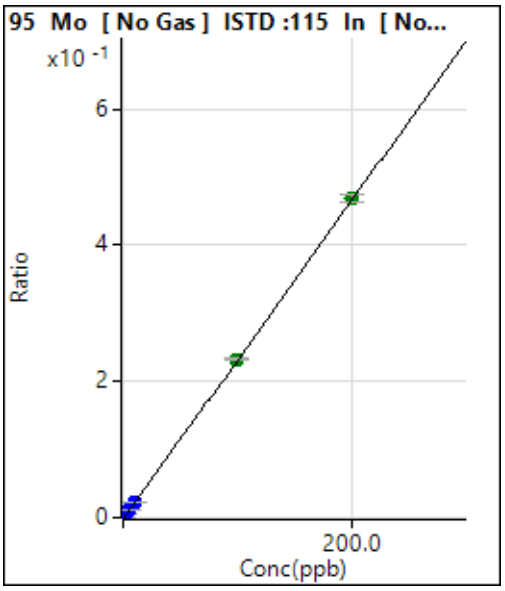


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1653.47	0.0016	P	2.9	
2	☐	2.000	1.616	25073.49	0.0246	P	0.4	-19.2
3	☐	5.000	4.022	59668.60	0.0587	P	3.2	-19.6
4	☐	10.000	9.094	132514.31	0.1308	P	0.9	-9.1
5	☐	100.000	98.692	1386536.54	1.4031	A	1.6	-1.3
6	☐	200.000	200.727	2775580.06	2.8520	A	3.3	0.4

y = 0.0142 * x + 0.0016
R = 1.0000
DL = 0.00979 ppb
BEC = 0.1137 ppb

Weight: <None>
Min Conc: <None>

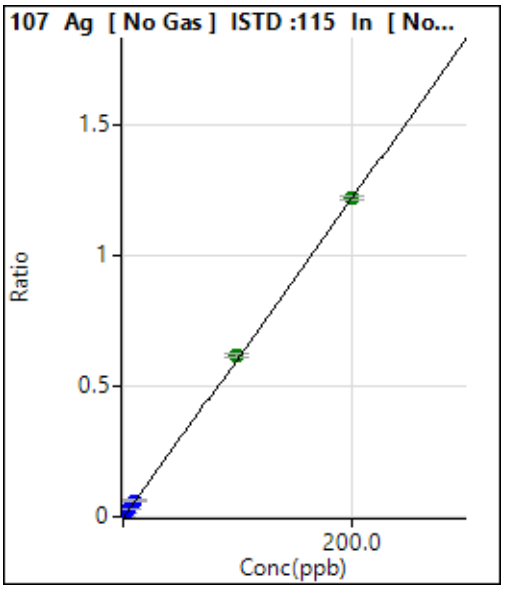
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0000	P	14.4	
2	☐	2.000	1.883	21400.67	0.0044	P	5.6	-5.8
3	☐	5.000	4.740	52997.70	0.0111	P	3.2	-5.2
4	☐	10.000	9.766	108289.74	0.0229	P	2.2	-2.3
5	☐	100.000	99.145	1063037.25	0.2319	A	1.5	-0.9
6	☐	200.000	200.447	2083280.91	0.4688	A	2.0	0.2

y = 0.0023 * x + 3.7283E-005
R = 1.0000
DL = 0.006897 ppb
BEC = 0.01594 ppb

Weight: <None>
Min Conc: <None>

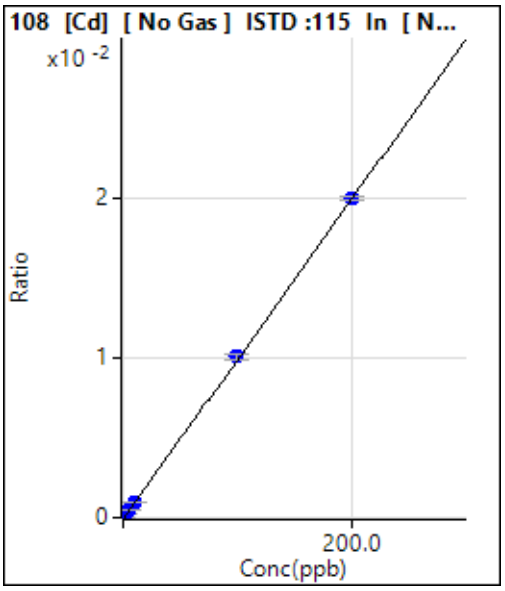


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	563.36	0.0001	P	19.7	
2	☐	2.000	1.982	59110.94	0.0123	P	5.8	-0.9
3	☐	5.000	4.989	146313.89	0.0307	P	2.5	-0.2
4	☐	10.000	10.156	295294.82	0.0624	P	2.2	1.6
5	☐	100.000	100.952	2837639.54	0.6190	A	2.0	1.0
6	☐	200.000	199.517	5436208.46	1.2233	A	1.6	-0.2

y = 0.0061 * x + 1.1667E-004
R = 1.0000
DL = 0.01124 ppb
BEC = 0.01903 ppb

Weight: <None>
Min Conc: <None>

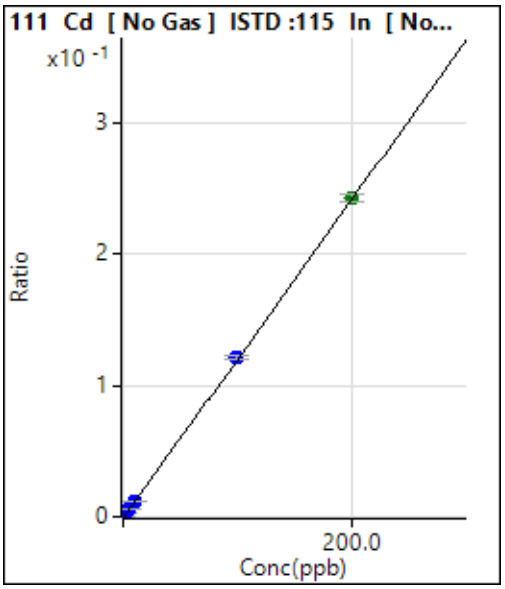
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.8	
2	☐	2.000	1.973	966.72	0.0002	P	10.2	-1.4
3	☐	5.000	4.587	2200.23	0.0005	P	7.8	-8.3
4	☐	10.000	9.878	4687.55	0.0010	P	4.8	-1.2
5	☐	100.000	100.823	46183.27	0.0101	P	3.3	0.8
6	☐	200.000	199.605	88623.15	0.0199	P	1.7	-0.2

y = 9.9895E-005 * x + 3.4585E-006
R = 1.0000
DL = 0.09532 ppb
BEC = 0.03462 ppb

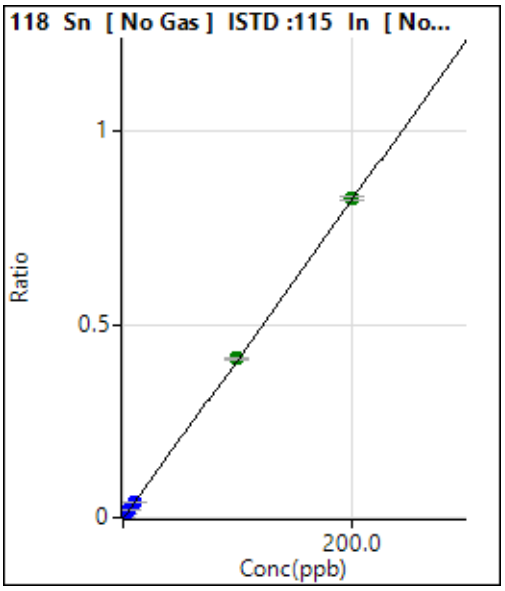
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	1767.2	
2	☐	2.000	1.989	11652.29	0.0024	P	7.3	-0.5
3	☐	5.000	4.895	28351.58	0.0059	P	3.0	-2.1
4	☐	10.000	9.976	57393.26	0.0121	P	1.1	-0.2
5	☐	100.000	99.788	555905.83	0.1213	P	1.9	-0.2
6	☐	200.000	200.110	1080698.31	0.2432	A	2.2	0.1

y = 0.0012 * x + 4.2489E-007
R = 1.0000
DL = 0.01854 ppb
BEC = 0.0003496 ppb

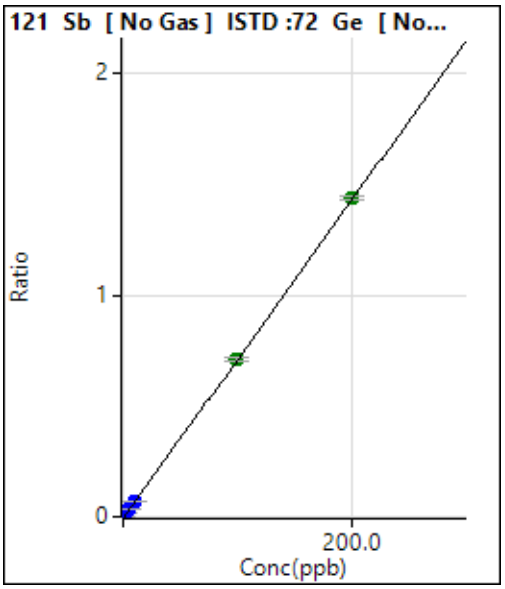
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5994.83	0.0012	P	4.0	
2	☐	2.000	1.988	45454.68	0.0094	P	2.0	-0.6
3	☐	5.000	4.816	100455.34	0.0211	P	3.8	-3.7
4	☐	10.000	9.731	195611.74	0.0413	P	2.3	-2.7
5	☐	100.000	99.480	1883908.35	0.4110	A	1.7	-0.5
6	☐	200.000	200.278	3671235.88	0.8261	A	1.5	0.1

y = 0.0041 * x + 0.0012
R = 1.0000
DL = 0.03613 ppb
BEC = 0.3015 ppb

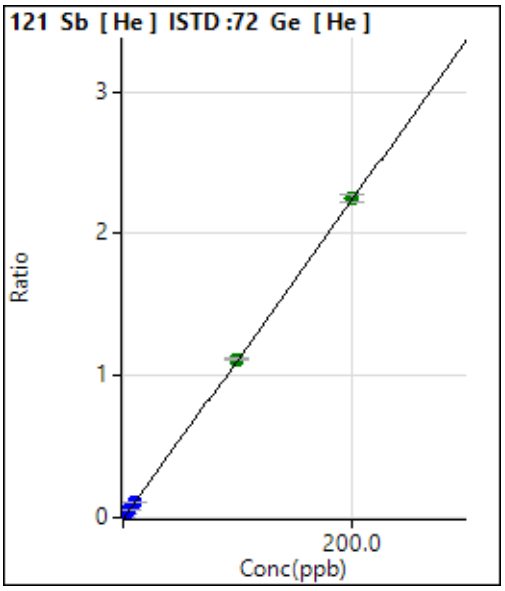
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	630.03	0.0002	P	21.1	
2	☐	2.000	1.992	52115.90	0.0145	P	3.5	-0.4
3	☐	5.000	4.865	125139.38	0.0351	P	2.2	-2.7
4	☐	10.000	9.981	253345.43	0.0719	P	2.1	-0.2
5	☐	100.000	99.149	2462252.41	0.7125	A	1.9	-0.9
6	☐	200.000	200.430	4824383.26	1.4402	A	1.0	0.2

y = 0.0072 * x + 1.7372E-004
R = 1.0000
DL = 0.01532 ppb
BEC = 0.02418 ppb

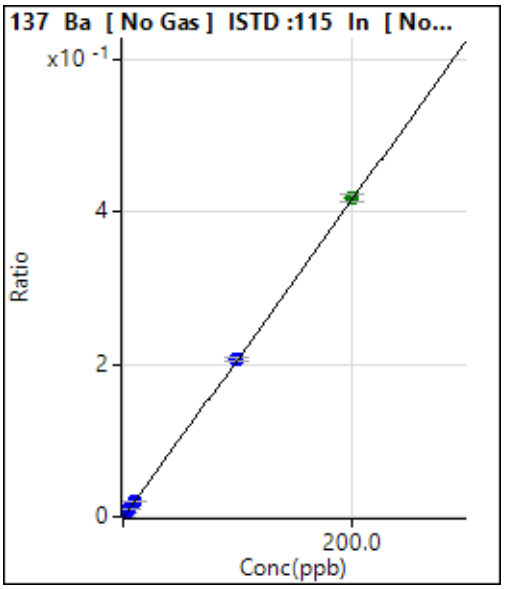
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	5.2	
2	☐	2.000	1.890	22001.94	0.0216	P	2.1	-5.5
3	☐	5.000	4.610	52915.74	0.0521	P	5.0	-7.8
4	☐	10.000	9.876	112712.84	0.1112	P	1.2	-1.2
5	☐	100.000	99.363	1102755.27	1.1159	A	1.4	-0.6
6	☐	200.000	200.336	2189283.67	2.2496	A	2.8	0.2

y = 0.0112 * x + 3.2553E-004
R = 1.0000
DL = 0.004501 ppb
BEC = 0.02899 ppb

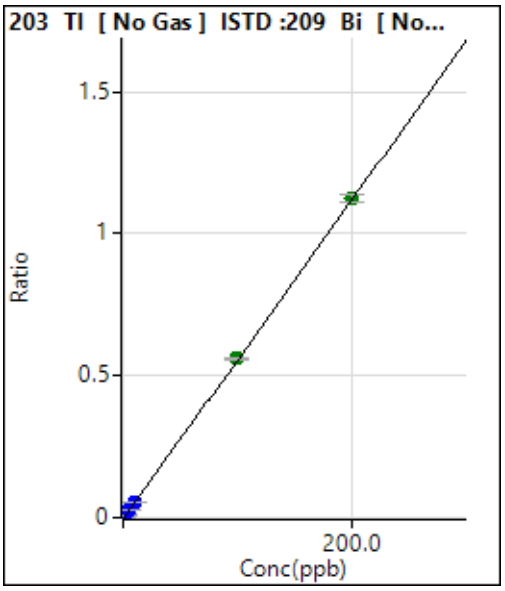
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	750.04	0.0002	P	8.0	
2	☐	2.000	2.225	23080.65	0.0048	P	3.5	11.3
3	☐	5.000	4.883	49202.37	0.0103	P	1.8	-2.3
4	☐	10.000	9.822	97567.53	0.0206	P	2.7	-1.8
5	☐	100.000	99.103	946776.08	0.2065	P	2.4	-0.9
6	☐	200.000	200.458	1855807.79	0.4176	A	2.3	0.2

y = 0.0021 * x + 1.5540E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.07462 ppb

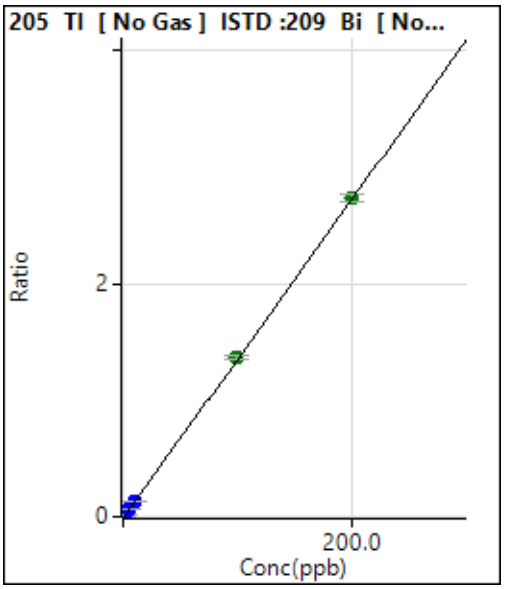
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	966.73	0.0002	P	15.3	
2	☐	2.000	1.759	50916.07	0.0101	P	2.4	-12.0
3	☐	5.000	4.852	137122.61	0.0275	P	0.8	-3.0
4	☐	10.000	9.607	270114.98	0.0542	P	1.3	-3.9
5	☐	100.000	99.642	2698179.02	0.5600	A	2.0	-0.4
6	☐	200.000	200.205	5248397.11	1.1250	A	2.0	0.1

y = 0.0056 * x + 1.9170E-004
R = 1.0000
DL = 0.01567 ppb
BEC = 0.03412 ppb

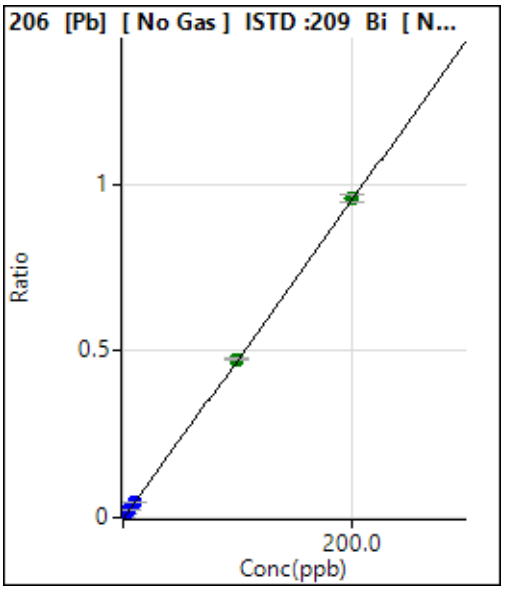
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2420.28	0.0005	P	10.6	
2	☐	2.000	1.718	121094.16	0.0240	P	2.2	-14.1
3	☐	5.000	4.694	322862.55	0.0646	P	2.3	-6.1
4	☐	10.000	9.378	641550.62	0.1287	P	1.4	-6.2
5	☐	100.000	99.843	6577152.19	1.3651	A	1.9	-0.2
6	☐	200.000	200.120	12762014.39	2.7357	A	2.3	0.1

y = 0.0137 * x + 4.8003E-004
R = 1.0000
DL = 0.01114 ppb
BEC = 0.03512 ppb

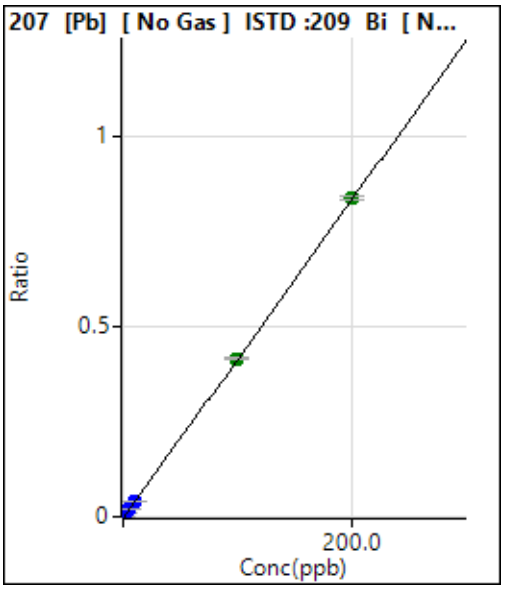
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.10	0.0003	P	12.9	
2	☐	2.000	1.931	48008.39	0.0095	P	2.5	-3.4
3	☐	5.000	4.813	116313.41	0.0233	P	2.4	-3.7
4	☐	10.000	9.862	236588.30	0.0474	P	1.1	-1.4
5	☐	100.000	99.202	2287999.70	0.4749	A	1.1	-0.8
6	☐	200.000	200.411	4474287.64	0.9591	A	2.4	0.2

y = 0.0048 * x + 2.5998E-004
R = 1.0000
DL = 0.02109 ppb
BEC = 0.05434 ppb

Weight: <None>
Min Conc: <None>

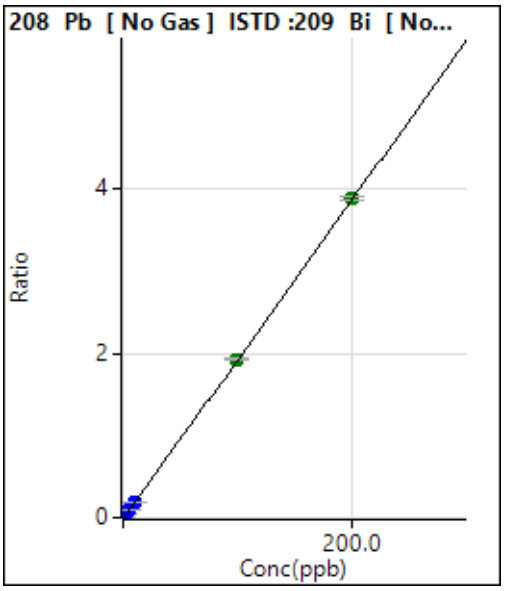


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.40	0.0002	P	18.4	
2	☐	2.000	1.990	43057.33	0.0085	P	3.7	-0.5
3	☐	5.000	4.830	101819.59	0.0204	P	2.3	-3.4
4	☐	10.000	9.895	207160.69	0.0415	P	0.8	-1.1
5	☐	100.000	99.405	2001749.35	0.4155	A	1.1	-0.6
6	☐	200.000	200.307	3904667.86	0.8370	A	1.4	0.2

y = 0.0042 * x + 2.0889E-004
R = 1.0000
DL = 0.02763 ppb
BEC = 0.05 ppb

Weight: <None>
Min Conc: <None>

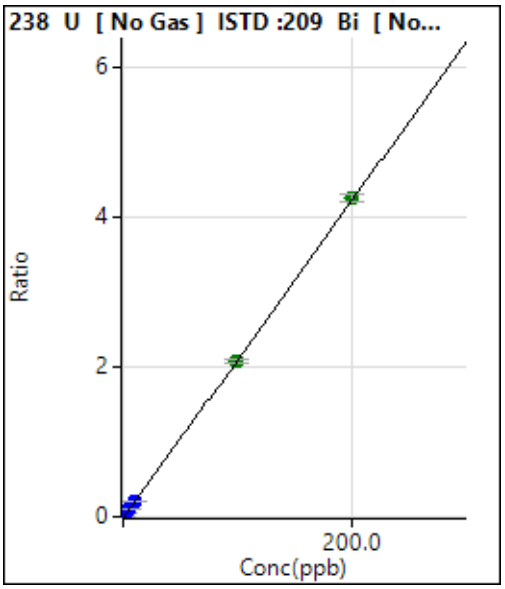
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4887.13	0.0010	P	5.0	
2	☐	2.000	1.935	194683.53	0.0385	P	2.2	-3.2
3	☐	5.000	4.764	466644.01	0.0934	P	2.5	-4.7
4	☐	10.000	9.801	953267.28	0.1912	P	1.1	-2.0
5	☐	100.000	99.403	9298822.52	1.9300	A	1.5	-0.6
6	☐	200.000	200.315	18139288.68	3.8883	A	1.8	0.2

y = 0.0194 * x + 9.6954E-004
R = 1.0000
DL = 0.007453 ppb
BEC = 0.04996 ppb

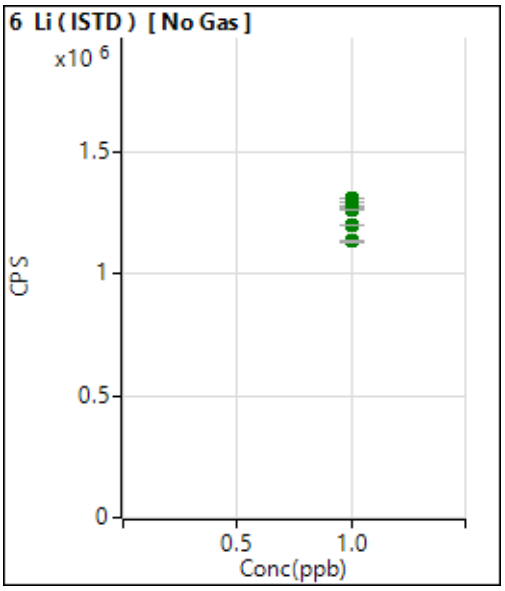
Weight: <None>
Min Conc: <None>



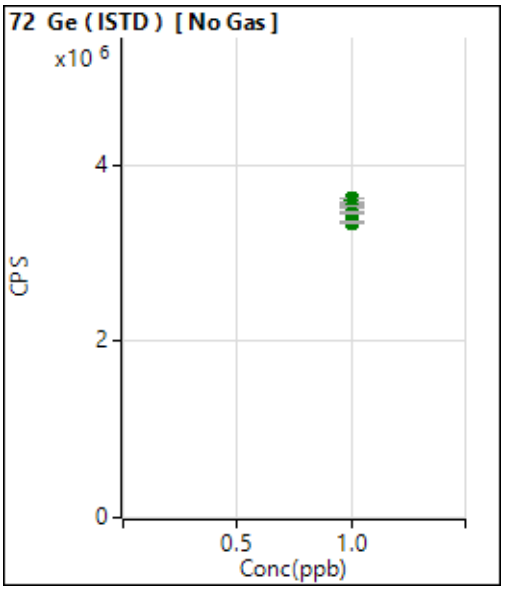
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3043.77	0.0006	P	2.2	
2	☐	2.000	1.849	201086.55	0.0398	P	2.5	-7.6
3	☐	5.000	4.635	493778.96	0.0989	P	1.9	-7.3
4	☐	10.000	9.453	1002347.72	0.2010	P	2.1	-5.5
5	☐	100.000	98.280	10041080.06	2.0841	A	1.9	-1.7
6	☐	200.000	200.898	19870878.87	4.2595	A	2.0	0.4

y = 0.0212 * x + 6.0384E-004
R = 1.0000
DL = 0.001907 ppb
BEC = 0.02848 ppb

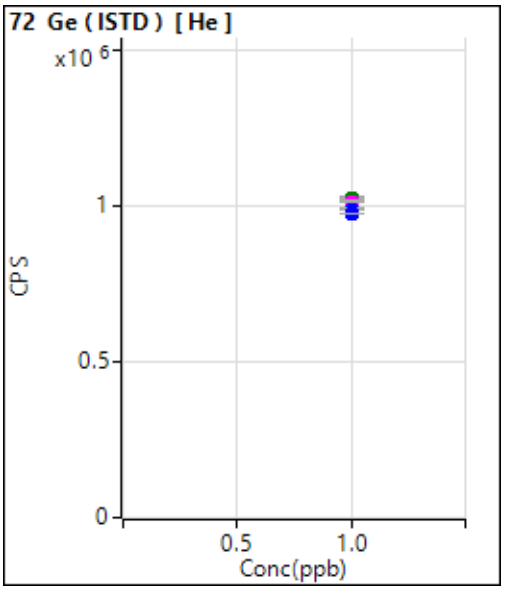
Weight: <None>
Min Conc: <None>



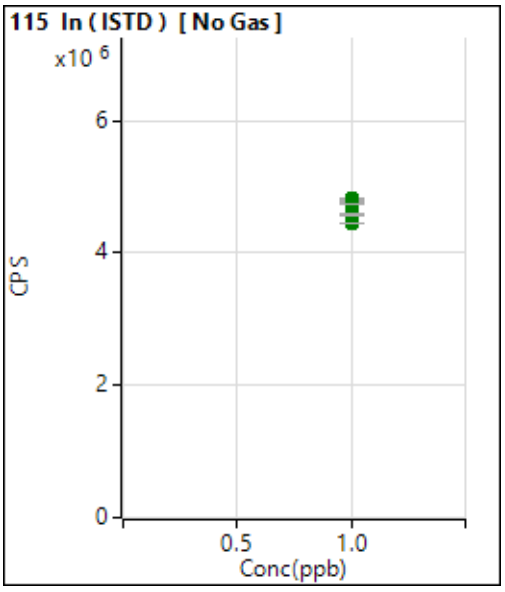
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1311505.51		A	0.4	
2	☐	1.000		1296398.91		A	0.1	
3	☐	1.000		1278167.75		A	0.4	
4	☐	1.000		1261653.96		A	0.2	
5	☐	1.000		1199454.34		A	0.2	
6	☐	1.000		1134408.06		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3625271.30		A	0.6	
2	☐	1.000		3598500.99		A	1.0	
3	☐	1.000		3562325.88		A	0.5	
4	☐	1.000		3524402.97		A	0.3	
5	☐	1.000		3455665.26		A	0.5	
6	☐	1.000		3349657.03		A	0.5	

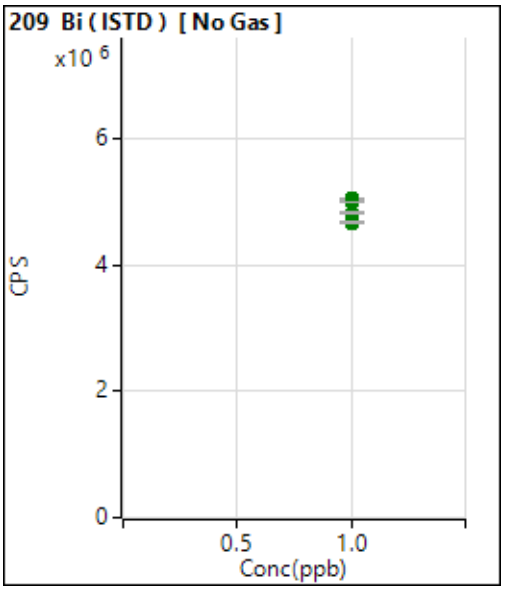


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1024230.63		A	0.8	
2	☐	1.000		1020789.39		M	1.2	
3	☐	1.000		1016078.66		A	0.7	
4	☐	1.000		1013447.93		M	0.6	
5	☐	1.000		988164.15		P	0.5	
6	☐	1.000		973176.52		P	0.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4826623.82		A	0.3	
2	☐	1.000		4819854.81		A	0.6	
3	☐	1.000		4765231.99		A	0.2	
4	☐	1.000		4733707.72		A	0.3	
5	☐	1.000		4584168.55		A	0.3	
6	☐	1.000		4443870.86		A	0.1	

Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5040995.86		A	0.4	
2	☐	1.000		5052988.15		A	0.5	
3	☐	1.000		4994818.26		A	0.3	
4	☐	1.000		4986532.84		A	0.2	
5	☐	1.000		4817898.16		A	0.5	
6	☐	1.000		4665364.62		A	0.7	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:42:15-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	73766	0.00
Be	9	1	No Gas	152	1.25
V	51	2	He	6458	0.04
Cr	52	2	He	8549	0.02
Fe	56	2	He	15726	0.02
Se	78	2	He	153	6.44
As	75	2	He	276	3.55
Ca	44	2	He	863	1.73
Na	23	2	He	95800	0.00
Mg	24	2	He	1183	0.99
K	39	2	He	96274	0.00
Mn	55	2	He	797	2.62
Co	59	2	He	473	1.57
Ni	60	2	He	327	6.38
Cu	63	2	He	633	1.80
Zn	66	2	He	1080	1.12
Al	27	2	He	1503	1.07
B	11	1	No Gas	18711	0.00
Al	27	1	No Gas	59948	0.00
Si	28	1	No Gas	409186	0.00
Ag	107	1	No Gas	563	3.54
Cd	111	1	No Gas	2	80860.30
Sr	88	1	No Gas	2720	0.04
Mo	95	1	No Gas	180	8.17
Sn	118	1	No Gas	5995	0.07
Sb	121	1	No Gas	630	3.41
Ba	137	1	No Gas	750	1.07
Tl	205	1	No Gas	2420	0.45
Tl	203	1	No Gas	967	1.62
Pb	208	1	No Gas	4887	0.10
U	238	1	No Gas	3044	0.06
Ca	43	2	He	47	115.56
Sb	121	2	He	333	1.37
Ti	47	2	He	7	1299.04
Cu	63	1	No Gas	2580	0.26

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1311506	0.45
Ge	72	2	He	1024231	0.83
Ge	72	1	No Gas	3625271	0.57
In	115	1	No Gas	4826624	0.32

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	5040996	0.42

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:44:58-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	9258	0.05
V	51	2	He	21895	0.01
Cr	52	2	He	25621	0.00
Fe	56	2	He	1745376	0.00
Se	78	2	He	418	1.43
As	75	2	He	3008	0.06
Ca	44	2	He	11672	0.03
Na	23	2	He	353014	0.00
Mg	24	2	He	163017	0.00
K	39	2	He	293451	0.00
Mn	55	2	He	15095	0.04
Co	59	2	He	27959	0.01
Ni	60	2	He	7389	0.03
Cu	63	2	He	20656	0.01
Zn	66	2	He	5208	0.11
Al	27	2	He	3244	0.30
B	11	1	No Gas	44891	0.00
Al	27	1	No Gas	130487	0.00
Si	28	1	No Gas	531313	0.00
Ag	107	1	No Gas	59111	0.01
Cd	111	1	No Gas	11652	0.06
Sr	88	1	No Gas	115681	0.00
Mo	95	1	No Gas	21401	0.02
Sn	118	1	No Gas	45455	0.00
Sb	121	1	No Gas	52116	0.01
Ba	137	1	No Gas	23081	0.01
Tl	205	1	No Gas	121094	0.00
Tl	203	1	No Gas	50916	0.01
Pb	208	1	No Gas	194684	0.00
U	238	1	No Gas	201087	0.00
Ca	43	2	He	670	1.02
Sb	121	2	He	22002	0.01
Cu	63	1	No Gas	44542	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1296399	0.10	1311506	98.85	70	120	
Ge	72	2	He	1020789	1.19	1024231	99.66	70	120	
Ge	72	1	No Gas	3598501	1.00	3625271	99.26	70	120	

Calibration Standard Report

In	115	1	No Gas	4819855	0.59	4826624	99.86	70	120	
Bi	209	1	No Gas	5052988	0.47	5040996	100.24	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:47:39-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	22374	0.02
V	51	2	He	43310	0.01
Cr	52	2	He	51335	0.01
Fe	56	2	He	4134671	0.00
Se	78	2	He	782	0.62
As	75	2	He	6593	0.04
Ca	44	2	He	25560	0.01
Na	23	2	He	725631	0.00
Mg	24	2	He	393955	0.00
K	39	2	He	571831	0.00
Mn	55	2	He	34430	0.00
Co	59	2	He	67066	0.00
Ni	60	2	He	17652	0.03
Cu	63	2	He	46385	0.01
Zn	66	2	He	9964	0.03
Al	27	2	He	4071	0.11
B	11	1	No Gas	79278	0.00
Al	27	1	No Gas	162172	0.00
Si	28	1	No Gas	675400	0.00
Ag	107	1	No Gas	146314	0.00
Cd	111	1	No Gas	28352	0.01
Sr	88	1	No Gas	274822	0.00
Mo	95	1	No Gas	52998	0.01
Sn	118	1	No Gas	100455	0.00
Sb	121	1	No Gas	125139	0.00
Ba	137	1	No Gas	49202	0.00
Tl	205	1	No Gas	322863	0.00
Tl	203	1	No Gas	137123	0.00
Pb	208	1	No Gas	466644	0.00
U	238	1	No Gas	493779	0.00
Ca	43	2	He	1420	0.69
Sb	121	2	He	52916	0.01
Cu	63	1	No Gas	105069	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1278168	0.43	1311506	97.46	70	120	
Ge	72	2	He	1016079	0.65	1024231	99.20	70	120	
Ge	72	1	No Gas	3562326	0.47	3625271	98.26	70	120	

Calibration Standard Report

In	115	1	No Gas	4765232	0.22	4826624	98.73	70	120	
Bi	209	1	No Gas	4994818	0.33	5040996	99.08	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:50:20-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	45561	0.00
V	51	2	He	84157	0.00
Cr	52	2	He	99220	0.00
Fe	56	2	He	8848571	0.00
Se	78	2	He	1492	0.15
As	75	2	He	14023	0.01
Ca	44	2	He	53995	0.00
Na	23	2	He	1443042	0.00
Mg	24	2	He	836661	0.00
K	39	2	He	1111672	0.00
Mn	55	2	He	73348	0.00
Co	59	2	He	143134	0.00
Ni	60	2	He	36963	0.02
Cu	63	2	He	98121	0.00
Zn	66	2	He	18600	0.01
Al	27	2	He	7175	0.02
B	11	1	No Gas	143787	0.00
Al	27	1	No Gas	276086	0.00
Si	28	1	No Gas	942178	0.00
Ag	107	1	No Gas	295295	0.00
Cd	111	1	No Gas	57393	0.00
Sr	88	1	No Gas	558292	0.00
Mo	95	1	No Gas	108290	0.00
Sn	118	1	No Gas	195612	0.00
Sb	121	1	No Gas	253345	0.00
Ba	137	1	No Gas	97568	0.00
Tl	205	1	No Gas	641551	0.00
Tl	203	1	No Gas	270115	0.00
Pb	208	1	No Gas	953267	0.00
U	238	1	No Gas	1002348	0.00
Ca	43	2	He	3054	0.20
Sb	121	2	He	112713	0.00
Cu	63	1	No Gas	208125	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1261654	0.20	1311506	96.20	70	120	
Ge	72	2	He	1013448	0.56	1024231	98.95	70	120	
Ge	72	1	No Gas	3524403	0.32	3625271	97.22	70	120	

Calibration Standard Report

In	115	1	No Gas	4733708	0.27	4826624	98.07	70	120	
Bi	209	1	No Gas	4986533	0.17	5040996	98.92	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:53:00-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	438437	0.00
V	51	2	He	780977	0.00
Cr	52	2	He	884236	0.00
Fe	56	2	He	86135269	0.00
Se	78	2	He	13360	0.02
As	75	2	He	136005	0.00
Ca	44	2	He	520925	0.00
Na	23	2	He	13217808	0.00
Mg	24	2	He	8181836	0.00
K	39	2	He	10054267	0.00
Mn	55	2	He	704323	0.00
Co	59	2	He	1378711	0.00
Ni	60	2	He	353702	0.00
Cu	63	2	He	937572	0.00
Zn	66	2	He	174511	0.00
Al	27	2	He	54623	0.01
B	11	1	No Gas	1230939	0.00
Al	27	1	No Gas	2066305	0.00
Si	28	1	No Gas	5540167	0.00
Ag	107	1	No Gas	2794774	0.00
Cd	111	1	No Gas	549564	0.00
Sr	88	1	No Gas	5465713	0.00
Mo	95	1	No Gas	1048424	0.00
Sn	118	1	No Gas	1846912	0.00
Sb	121	1	No Gas	2414256	0.00
Ba	137	1	No Gas	931776	0.00
Tl	205	1	No Gas	6527912	0.00
Tl	203	1	No Gas	2677534	0.00
Pb	208	1	No Gas	9036795	0.00
U	238	1	No Gas	9844995	0.00
Ca	43	2	He	30771	0.01
Sb	121	2	He	1086596	0.00
Cu	63	1	No Gas	1925848	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1199804	0.86	1311506	91.48	70	120	
Ge	72	2	He	991120	0.62	1024231	96.77	70	120	
Ge	72	1	No Gas	3419623	1.02	3625271	94.33	70	120	

Calibration Standard Report

In	115	1	No Gas	4559231	1.01	4826624	94.46	70	120	
Bi	209	1	No Gas	4766725	0.73	5040996	94.56	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:55:37-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	817241	0.00
V	51	2	He	1390010	0.00
Cr	52	2	He	1567590	0.00
Fe	56	2	He	152570694	0.00
Se	78	2	He	23825	0.01
As	75	2	He	245444	0.00
Ca	44	2	He	917403	0.00
Na	23	2	He	23642475	0.00
Mg	24	2	He	14414825	0.00
K	39	2	He	18019990	0.00
Mn	55	2	He	1233953	0.00
Co	59	2	He	2427490	0.00
Ni	60	2	He	624570	0.00
Cu	63	2	He	1656046	0.00
Zn	66	2	He	308434	0.00
Al	27	2	He	95010	0.01
B	11	1	No Gas	2345911	0.00
Al	27	1	No Gas	3821074	0.00
Si	28	1	No Gas	10015220	0.00
Ag	107	1	No Gas	5253095	0.00
Cd	111	1	No Gas	1033290	0.00
Sr	88	1	No Gas	10447917	0.00
Mo	95	1	No Gas	2011616	0.00
Sn	118	1	No Gas	3501678	0.00
Sb	121	1	No Gas	4613875	0.00
Ba	137	1	No Gas	1761568	0.00
Tl	205	1	No Gas	12296686	0.00
Tl	203	1	No Gas	5036372	0.00
Pb	208	1	No Gas	17369800	0.00
U	238	1	No Gas	19040135	0.00
Ca	43	2	He	55042	0.01
Sb	121	2	He	1942208	0.00
Cu	63	1	No Gas	3594160	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1149741	1.25	1311506	87.67	70	120	
Ge	72	2	He	980532	0.26	1024231	95.73	70	120	
Ge	72	1	No Gas	3348719	0.89	3625271	92.37	70	120	

Calibration Standard Report

In	115	1	No Gas	4489168	0.54	4826624	93.01	70	120	
Bi	209	1	No Gas	4657439	0.91	5040996	92.39	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:06:59-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	439243	0.00
V	51	2	He	793395	0.00
Cr	52	2	He	898049	0.00
Fe	56	2	He	87995329	0.00
Se	78	2	He	13672	0.01
As	75	2	He	137683	0.00
Ca	44	2	He	529957	0.00
Na	23	2	He	13562842	0.00
Mg	24	2	He	8355099	0.00
K	39	2	He	10326336	0.00
Mn	55	2	He	718660	0.00
Co	59	2	He	1393368	0.00
Ni	60	2	He	359924	0.00
Cu	63	2	He	948808	0.00
Zn	66	2	He	175069	0.00
Al	27	2	He	56179	0.01
B	11	1	No Gas	1241149	0.00
Al	27	1	No Gas	2108614	0.00
Si	28	1	No Gas	5629440	0.00
Ag	107	1	No Gas	2837640	0.00
Cd	111	1	No Gas	555906	0.00
Sr	88	1	No Gas	5622582	0.00
Mo	95	1	No Gas	1063037	0.00
Sn	118	1	No Gas	1883908	0.00
Sb	121	1	No Gas	2462252	0.00
Ba	137	1	No Gas	946776	0.00
Tl	205	1	No Gas	6577152	0.00
Tl	203	1	No Gas	2698179	0.00
Pb	208	1	No Gas	9298823	0.00
U	238	1	No Gas	10041080	0.00
Ca	43	2	He	31352	0.01
Sb	121	2	He	1102755	0.00
Cu	63	1	No Gas	1959324	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1199454	0.20	1311506	91.46	70	120	
Ge	72	2	He	988164	0.54	1024231	96.48	70	120	
Ge	72	1	No Gas	3455665	0.51	3625271	95.32	70	120	

Calibration Standard Report

In	115	1	No Gas	4584169	0.31	4826624	94.98	70	120	
Bi	209	1	No Gas	4817898	0.54	5040996	95.57	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:09:29-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	843817	0.00
V	51	2	He	1545285	0.00
Cr	52	2	He	1743352	0.00
Fe	56	2	He	169492937	0.00
Se	78	2	He	26583	0.01
As	75	2	He	266474	0.00
Ca	44	2	He	1032824	0.00
Na	23	2	He	26127261	0.00
Mg	24	2	He	16108926	0.00
K	39	2	He	19779666	0.00
Mn	55	2	He	1377897	0.00
Co	59	2	He	2700155	0.00
Ni	60	2	He	691304	0.00
Cu	63	2	He	1833855	0.00
Zn	66	2	He	338842	0.00
Al	27	2	He	105779	0.00
B	11	1	No Gas	2411542	0.00
Al	27	1	No Gas	3998174	0.00
Si	28	1	No Gas	10398479	0.00
Ag	107	1	No Gas	5436208	0.00
Cd	111	1	No Gas	1080698	0.00
Sr	88	1	No Gas	10854979	0.00
Mo	95	1	No Gas	2083281	0.00
Sn	118	1	No Gas	3671236	0.00
Sb	121	1	No Gas	4824383	0.00
Ba	137	1	No Gas	1855808	0.00
Tl	205	1	No Gas	12762014	0.00
Tl	203	1	No Gas	5248397	0.00
Pb	208	1	No Gas	18139289	0.00
U	238	1	No Gas	19870879	0.00
Ca	43	2	He	60033	0.01
Sb	121	2	He	2189284	0.00
Cu	63	1	No Gas	3754985	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1134408	0.74	1311506	86.50	70	120	
Ge	72	2	He	973177	0.24	1024231	95.02	70	120	
Ge	72	1	No Gas	3349657	0.47	3625271	92.40	70	120	

Calibration Standard Report

In	115	1	No Gas	4443871	0.12	4826624	92.07	70	120	
Bi	209	1	No Gas	4665365	0.67	5040996	92.55	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	021_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:15:11-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	100.222	1.855	1802956	1.92	100	100.2	90	110	
Be	9	1	No Gas	100.898	2.239	433580	2.32	100	100.9	90	110	
V	51	2	He	101.096	1.292	796454	1.08	100	101.1	90	110	
Cr	52	2	He	101.532	1.174	903539	0.92	100	101.5	90	110	
Fe	56	2	He	10173.860	1.246	87853115	1.07	10000	101.7	90	110	
Se	78	2	He	99.460	0.831	13503	0.54	100	99.5	90	110	
As	75	2	He	101.756	1.164	138100	0.98	100	101.8	90	110	
Ca	44	2	He	10094.252	1.876	530162	1.60	10000	100.9	90	110	
Na	23	2	He	10127.308	2.189	13515515	2.12	10000	101.3	90	110	
Mg	24	2	He	10171.308	1.682	8345853	1.61	10000	101.7	90	110	
K	39	2	He	10099.196	1.567	10224257	1.37	10000	101.0	90	110	
Mn	55	2	He	101.635	1.566	714402	1.38	100	101.6	90	110	
Co	59	2	He	101.991	1.665	1401468	1.61	100	102.0	90	110	
Ni	60	2	He	102.173	1.423	360180	1.29	100	102.2	90	110	
Cu	63	2	He	102.151	1.931	953945	1.76	100	102.2	90	110	
Zn	66	2	He	102.900	1.013	177857	0.77	100	102.9	90	110	
Al	27	2	He	99.810	4.378	54626	4.19	100	99.8	90	110	
B	11	1	No Gas	502.893	1.140	1221090	1.24	500	100.6	90	110	
Al	27	1	No Gas	100.878	2.414	2085315	2.17	100	100.9	90	110	
Si	28	1	No Gas	502.785	2.747	5529521	2.04	500	100.6	90	110	
Ag	107	1	No Gas	100.264	2.028	2813301	2.04	100	100.3	90	110	
Cd	111	1	No Gas	99.886	1.075	555466	1.12	100	99.9	90	110	
Sr	88	1	No Gas	99.437	1.619	5562432	1.73	100	99.4	90	110	
Mo	95	1	No Gas	98.573	1.962	1055026	2.08	100	98.6	90	110	
Sn	118	1	No Gas	99.497	1.347	1880896	1.41	100	99.5	90	110	
Sb	121	1	No Gas	99.766	2.203	2445623	2.01	100	99.8	90	110	
Ba	137	1	No Gas	98.859	1.904	942793	2.06	100	98.9	90	110	
Tl	205	1	No Gas	101.042	2.224	6657688	2.66	100	101.0	90	110	
Tl	203	1	No Gas	100.849	2.138	2731479	2.50	100	100.8	90	110	
Pb	208	1	No Gas	99.701	2.350	9329071	2.83	100	99.7	90	110	
U	238	1	No Gas	98.308	1.773	10046433	2.27	100	98.3	90	110	
Ca	43	2	He	10197.790	1.545	31239	1.31	10000	102.0	90	110	
Sb	121	2	He	99.342	1.339	1101363	1.26	100	99.3	90	110	
Ti	47	2	He	102.476	0.481	30891	0.73	100	102.5	90	110	
Cu	63	1	No Gas	101.583	2.116	1947780	2.09	100	101.6	90	110	
Se	82	1	No Gas	99.278	1.073	33204	1.19	100	99.3	90	110	
Zr	90	1	No Gas	97.875	2.145	3480387	2.35	100	97.9	90	110	
Zr	90	2	He	98.920	2.012	1388252	1.92	100	98.9	90	1100	

QC ISTD Table

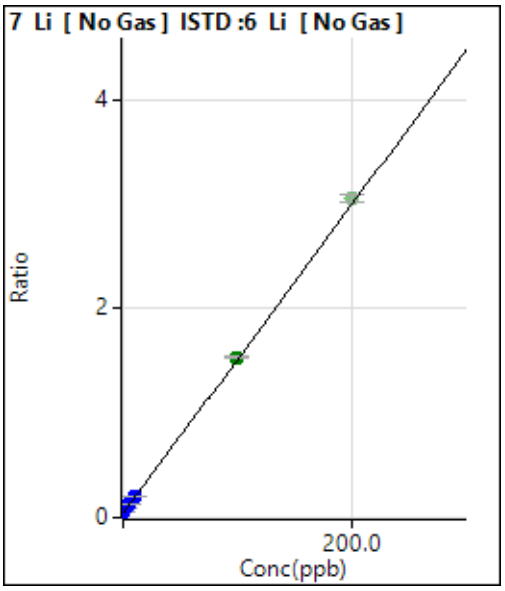
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1173827	0.16	1311506	89.50	70	120	
Ge	72	2	He	987170	0.29	1024231	96.38	70	120	
Ge	72	1	No Gas	3411266	0.96	3625271	94.10	70	120	
In	115	1	No Gas	4575856	0.33	4826624	94.80	70	120	
Bi	209	1	No Gas	4818893	0.55	5040996	95.59	70	120	

Calibration for 021_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/26/2024 10:42:15 AM
2	011CALS.d	2/10/200	6/26/2024 10:44:58 AM
3	012CALS.d	5/25/500	6/26/2024 10:47:39 AM
4	013CALS.d	10/50/100	6/26/2024 10:50:20 AM
5	018CALS.d	100/500/10K	6/26/2024 11:06:59 AM
6	019CALS.d	200/1000/20K	6/26/2024 11:09:29 AM

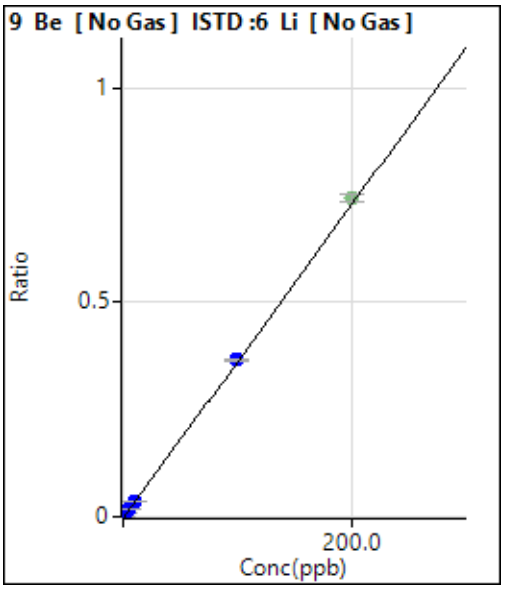
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73766.09	0.0562	P	1.0	
2	☐	2.000	1.894	109167.18	0.0842	P	0.9	-5.3
3	☐	5.000	4.769	161883.22	0.1267	P	1.5	-4.6
4	☐	10.000	9.751	252585.33	0.2002	P	1.7	-2.5
5	☐	100.000	100.039	1839078.05	1.5332	A	1.4	0.0
6	☑	200.000		3466147.03	3.0558	A	2.3	

y = 0.0148 * x + 0.0562
R = 1.0000
DL = 0.1166 ppb
BEC = 3.81 ppb

Weight: <None>
Min Conc: <None>

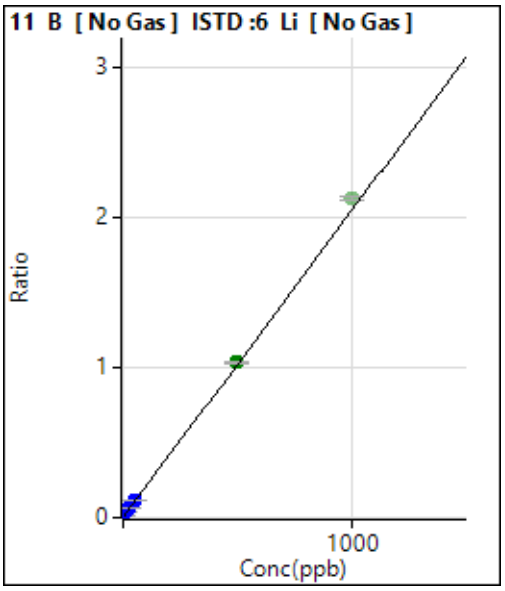


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	151.67	0.0001	P	1.5	
2	☐	2.000	1.920	9258.07	0.0071	P	4.9	-4.0
3	☐	5.000	4.751	22374.32	0.0175	P	3.2	-5.0
4	☐	10.000	9.836	45561.00	0.0361	P	2.1	-1.6
5	☐	100.000	100.030	439242.92	0.3662	P	1.8	0.0
6	☑	200.000		843817.41	0.7439	A	2.9	

y = 0.0037 * x + 1.1564E-004
R = 1.0000
DL = 0.001434 ppb
BEC = 0.0316 ppb

Weight: <None>
Min Conc: <None>

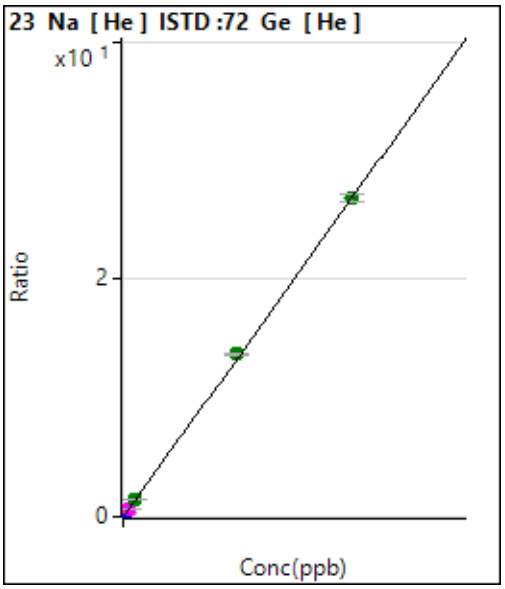
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18710.69	0.0143	P	0.2	
2	☐	10.000	9.980	44891.16	0.0346	P	2.1	-0.2
3	☐	25.000	23.408	79277.84	0.0620	P	2.1	-6.4
4	☐	50.000	48.870	143787.28	0.1140	P	1.6	-2.3
5	☐	500.000	500.193	1241149.15	1.0347	A	1.0	0.0
6	☑	1000.000		2411542.31	2.1260	A	1.8	

y = 0.0020 * x + 0.0143
R = 1.0000
DL = 0.04583 ppb
BEC = 6.993 ppb

Weight: <None>
Min Conc: <None>

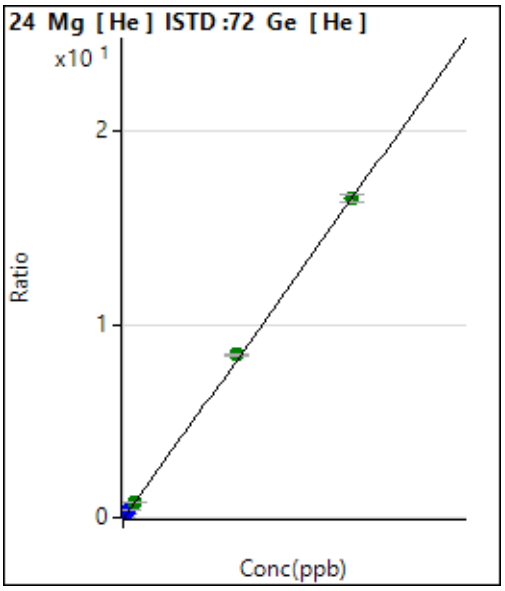


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95799.83	0.0935	P	1.4	
2	☐	200.000	187.897	353013.68	0.3458	P	1.4	-6.1
3	☐	500.000	462.260	725631.21	0.7142	M	3.3	-7.5
4	☐	1000.000	990.753	1443041.90	1.4238	A	1.6	-0.9
5	☐	10000.00	10152.23	13562841.88	13.7248	A	1.1	1.5
6	☐	20000.00	19925.40	26127261.28	26.8471	A	2.0	-0.4

y = 0.0013 * x + 0.0935
R = 1.0000
DL = 2.973 ppb
BEC = 69.67 ppb

Weight: <None>
Min Conc: <None>

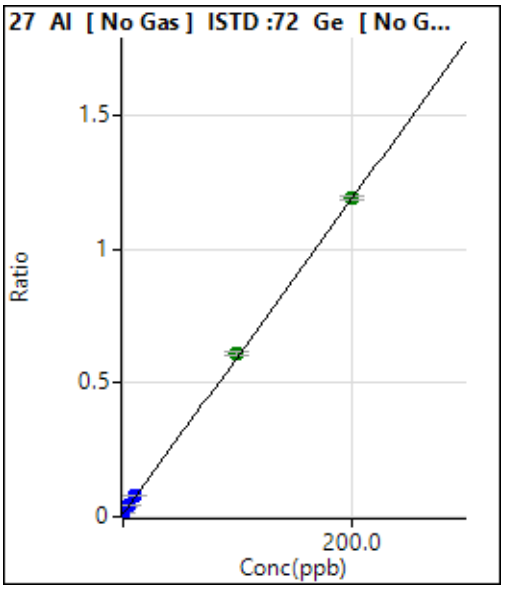
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1183.40	0.0012	P	12.3	
2	☐	200.000	190.743	163017.44	0.1597	P	2.6	-4.6
3	☐	500.000	465.178	393954.77	0.3878	P	3.2	-7.0
4	☐	1000.000	991.890	836660.51	0.8255	A	1.8	-0.8
5	☐	10000.00	10171.81	8355099.04	8.4548	A	1.2	1.7
6	☐	20000.00	19915.46	16108926.43	16.5527	A	2.7	-0.4

y = 8.3109E-004 * x + 0.0012
R = 0.9999
DL = 0.5122 ppb
BEC = 1.391 ppb

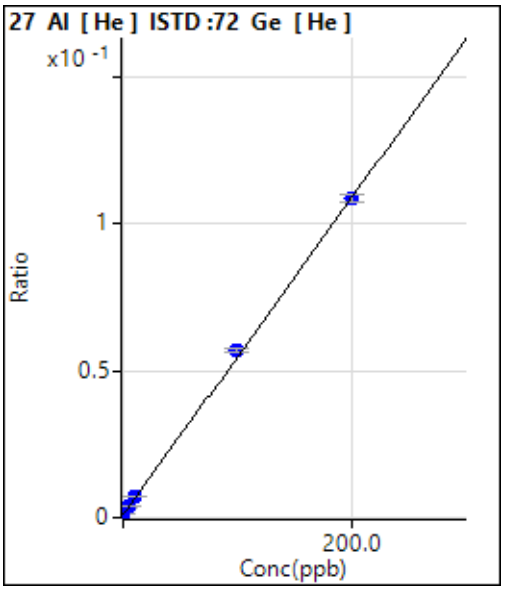
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59947.83	0.0165	P	1.1	
2	☐	2.000	3.347	130486.80	0.0363	P	3.7	67.3
3	☐	5.000	4.917	162171.59	0.0455	P	1.8	-1.7
4	☐	10.000	10.481	276085.77	0.0783	P	1.8	4.8
5	☐	100.000	100.685	2108614.08	0.6102	A	1.7	0.7
6	☐	200.000	199.622	3998173.79	1.1936	A	1.4	-0.2

y = 0.0059 * x + 0.0165
R = 1.0000
DL = 0.09435 ppb
BEC = 2.804 ppb

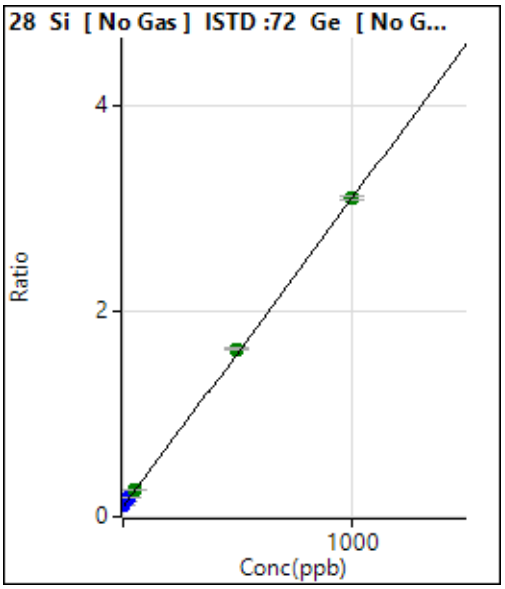
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1503.44	0.0015	P	16.4	
2	☐	2.000	3.164	3243.77	0.0032	P	8.6	58.2
3	☐	5.000	4.704	4070.66	0.0040	P	5.1	-5.9
4	☐	10.000	10.398	7175.28	0.0071	P	0.6	4.0
5	☐	100.000	102.614	56178.74	0.0569	P	3.0	2.6
6	☐	200.000	198.669	105778.78	0.1087	P	2.6	-0.7

y = 5.3971E-004 * x + 0.0015
R = 0.9999
DL = 1.335 ppb
BEC = 2.72 ppb

Weight: <None>
Min Conc: <None>

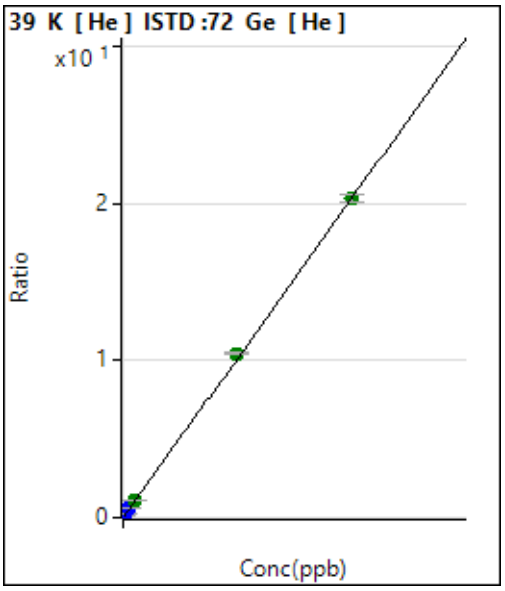


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	409185.78	0.1129	P	1.3	
2	☐	10.000	11.595	531313.48	0.1477	P	1.2	16.0
3	☐	25.000	25.576	675399.63	0.1896	P	1.1	2.3
4	☐	50.000	51.490	942177.72	0.2673	A	1.4	3.0
5	☐	500.000	505.434	5629439.92	1.6291	A	1.4	1.1
6	☐	1000.000	997.178	10398479.43	3.1042	A	1.2	-0.3

y = 0.0030 * x + 0.1129
R = 1.0000
DL = 1.499 ppb
BEC = 37.63 ppb

Weight: <None>
Min Conc: <None>

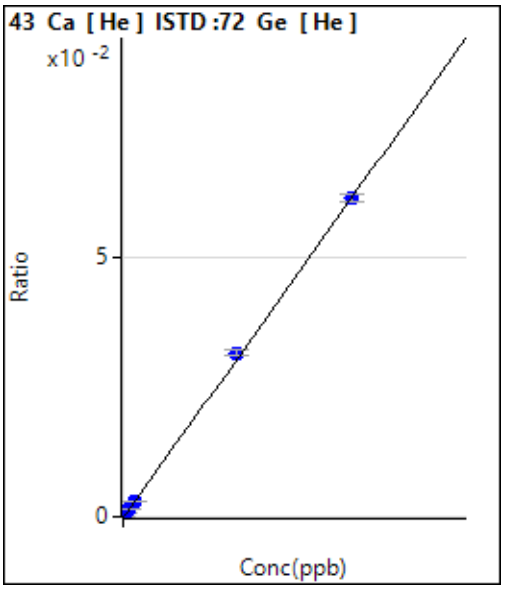
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96273.60	0.0940	P	0.9	
2	☐	200.000	190.380	293450.63	0.2875	P	1.4	-4.8
3	☐	500.000	461.318	571831.06	0.5628	P	1.6	-7.7
4	☐	1000.000	986.820	1111672.46	1.0969	A	1.6	-1.3
5	☐	10000.00	10189.95	10326336.30	10.4496	A	1.3	1.9
6	☐	20000.00	19906.74	19779665.54	20.3243	A	2.3	-0.5

y = 0.0010 * x + 0.0940
R = 0.9999
DL = 2.521 ppb
BEC = 92.49 ppb

Weight: <None>
Min Conc: <None>

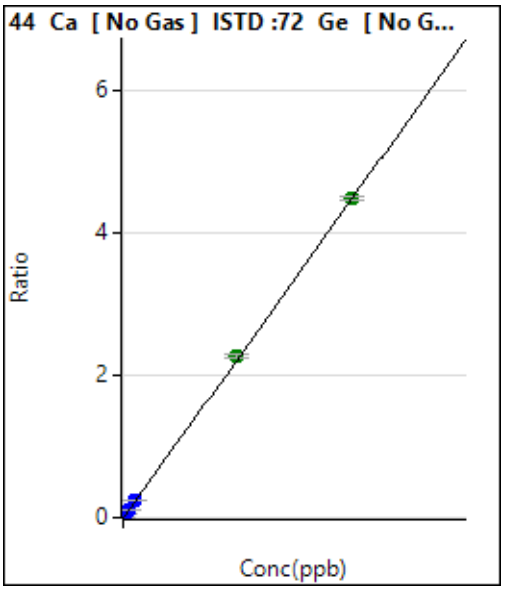


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	53.3	
2	☐	200.000	197.281	670.03	0.0007	P	8.0	-1.4
3	☐	500.000	436.412	1420.10	0.0014	P	9.9	-12.7
4	☐	1000.000	957.556	3053.72	0.0030	P	5.7	-4.2
5	☐	10000.00	10223.79	31352.24	0.0317	P	3.0	2.2
6	☐	20000.00	19891.84	60032.57	0.0617	P	2.9	-0.5

y = 3.0987E-006 * x + 4.5465E-005
R = 0.9999
DL = 23.48 ppb
BEC = 14.67 ppb

Weight: <None>
Min Conc: <None>

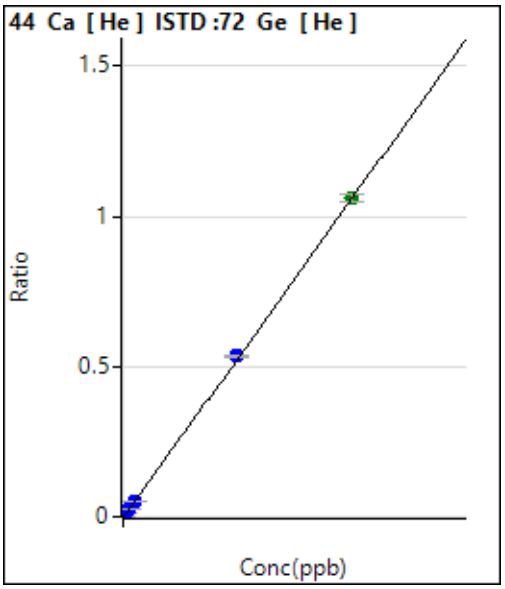
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38924.97	0.0107	P	1.2	
2	☐	200.000	202.706	202207.96	0.0562	P	3.9	1.4
3	☐	500.000	486.698	427151.40	0.1199	P	2.1	-2.7
4	☐	1000.000	994.165	823782.98	0.2337	P	2.1	-0.6
5	☐	10000.00	10094.04	7861349.67	2.2750	A	1.8	0.9
6	☐	20000.00	19953.57	15029153.94	4.4866	A	1.1	-0.2

y = 2.2432E-004 * x + 0.0107
R = 1.0000
DL = 1.669 ppb
BEC = 47.86 ppb

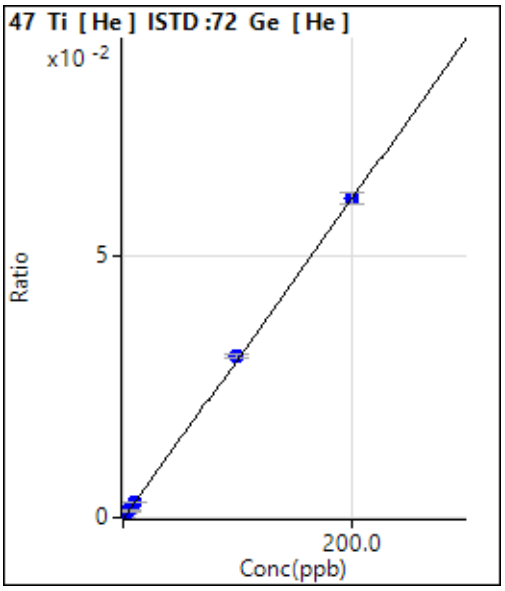
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0008	P	14.0	
2	☐	200.000	199.401	11671.74	0.0114	P	3.5	-0.3
3	☐	500.000	457.772	25560.40	0.0252	P	4.4	-8.4
4	☐	1000.000	987.118	53995.18	0.0533	P	1.2	-1.3
5	☐	10000.00	10079.51	529956.54	0.5363	P	0.9	0.8
6	☐	20000.00	19961.94	1032824.41	1.0613	A	2.8	-0.2

y = 5.3122E-005 * x + 8.4230E-004
R = 1.0000
DL = 6.667 ppb
BEC = 15.86 ppb

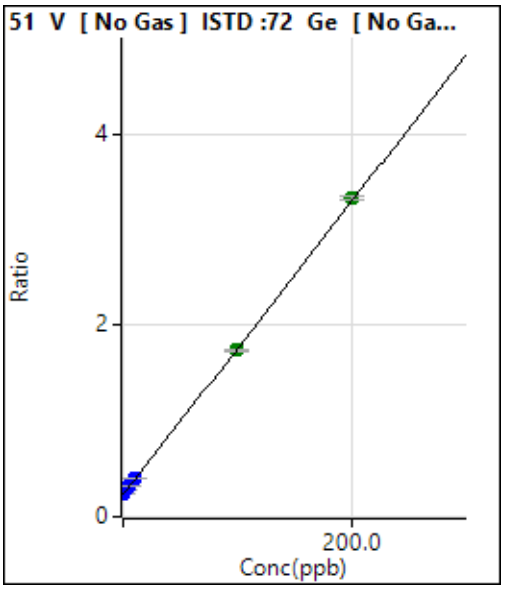
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.065	650.02	0.0006	P	9.5	3.2
3	☐	5.000	4.398	1370.10	0.0013	P	16.5	-12.0
4	☐	10.000	9.405	2917.03	0.0029	P	5.6	-5.9
5	☐	100.000	101.126	30517.18	0.0309	P	2.3	1.1
6	☐	200.000	199.481	59276.58	0.0609	P	3.8	-0.3

y = 3.0530E-004 * x + 6.4965E-006
R = 1.0000
DL = 0.05529 ppb
BEC = 0.02128 ppb

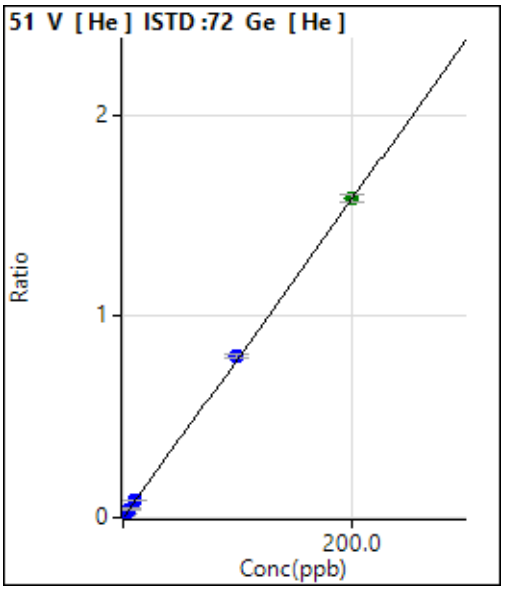
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	898774.18	0.2479	P	0.4	
2	☐	2.000	1.942	998926.92	0.2776	P	2.9	-2.9
3	☐	5.000	4.451	1125876.97	0.3161	P	1.5	-11.0
4	☐	10.000	10.135	1420588.30	0.4031	P	1.3	1.4
5	☐	100.000	97.249	6001487.77	1.7367	A	1.9	-2.8
6	☐	200.000	201.383	11158012.07	3.3310	A	1.3	0.7

y = 0.0153 * x + 0.2479
R = 0.9999
DL = 0.2155 ppb
BEC = 16.19 ppb

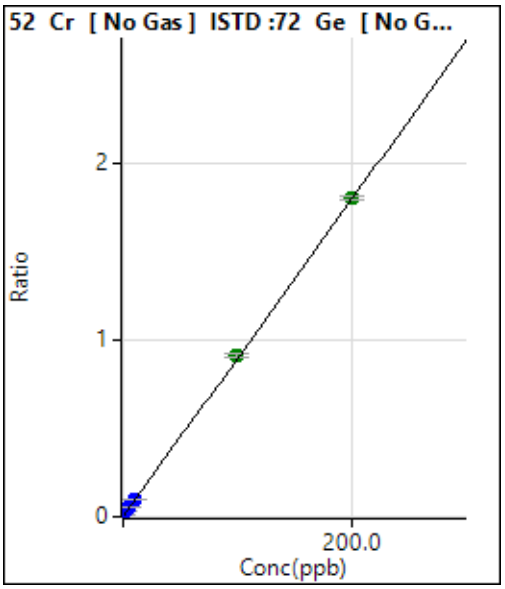
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6458.20	0.0063	P	3.0	
2	☐	2.000	1.912	21895.13	0.0214	P	2.4	-4.4
3	☐	5.000	4.587	43309.59	0.0426	P	3.5	-8.3
4	☐	10.000	9.690	84156.78	0.0830	P	1.7	-3.1
5	☐	100.000	100.595	793394.60	0.8029	P	1.5	0.6
6	☐	200.000	199.729	1545285.35	1.5878	A	2.5	-0.1

y = 0.0079 * x + 0.0063
R = 1.0000
DL = 0.07219 ppb
BEC = 0.7964 ppb

Weight: <None>
Min Conc: <None>

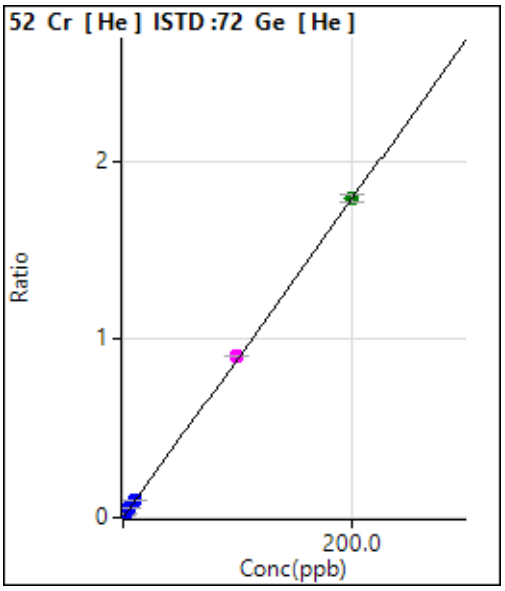


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38527.15	0.0106	P	1.1	
2	☐	2.000	1.935	100543.18	0.0279	P	4.0	-3.3
3	☐	5.000	4.767	189908.25	0.0533	P	2.3	-4.7
4	☐	10.000	9.750	345108.59	0.0979	P	1.7	-2.5
5	☐	100.000	100.259	3138553.39	0.9083	A	2.1	0.3
6	☐	200.000	199.889	6030638.45	1.8003	A	1.7	-0.1

y = 0.0090 * x + 0.0106
R = 1.0000
DL = 0.04009 ppb
BEC = 1.187 ppb

Weight: <None>
Min Conc: <None>

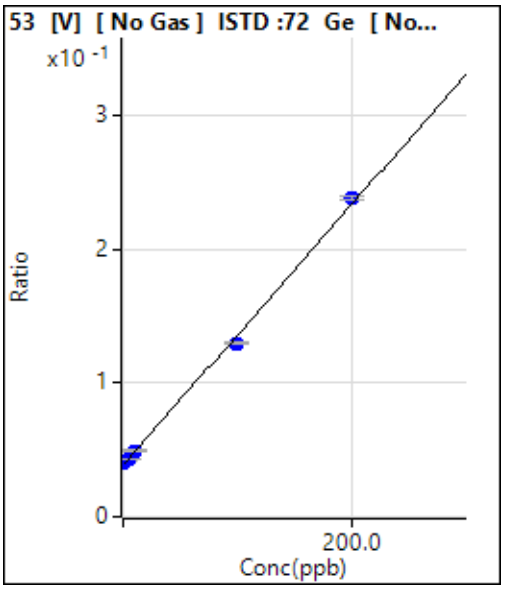
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8549.46	0.0083	P	1.0	
2	☐	2.000	1.875	25620.65	0.0251	P	0.7	-6.2
3	☐	5.000	4.722	51335.22	0.0505	P	4.7	-5.6
4	☐	10.000	10.025	99219.98	0.0979	P	1.7	0.2
5	☐	100.000	100.803	898049.36	0.9088	M	0.4	0.8
6	☐	200.000	199.605	1743351.59	1.7914	A	2.4	-0.2

y = 0.0089 * x + 0.0083
R = 1.0000
DL = 0.02943 ppb
BEC = 0.9345 ppb

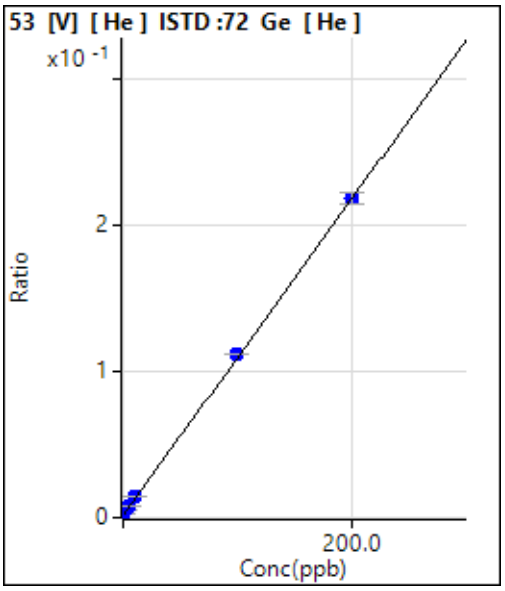
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145003.04	0.0400	P	0.4	
2	☐	2.000	1.823	150279.69	0.0418	P	2.7	-8.9
3	☐	5.000	3.259	153763.79	0.0432	P	1.3	-34.8
4	☐	10.000	9.700	174195.21	0.0494	P	1.0	-3.0
5	☐	100.000	92.327	448321.17	0.1297	P	1.6	-7.7
6	☐	200.000	203.897	797864.18	0.2382	P	1.3	1.9

y = 9.7199E-004 * x + 0.0400
R = 0.9990
DL = 0.4971 ppb
BEC = 41.15 ppb

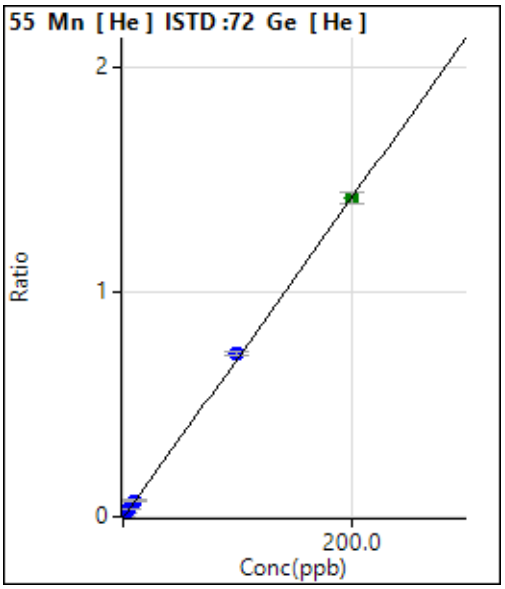
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2686.98	0.0026	P	8.2	
2	☐	2.000	1.934	4814.27	0.0047	P	3.2	-3.3
3	☐	5.000	4.696	7825.72	0.0077	P	6.7	-6.1
4	☐	10.000	10.570	14247.55	0.0141	P	0.5	5.7
5	☐	100.000	101.208	110789.82	0.1121	P	0.5	1.2
6	☐	200.000	199.376	212472.27	0.2183	P	3.2	-0.3

y = 0.0011 * x + 0.0026
R = 1.0000
DL = 0.5932 ppb
BEC = 2.425 ppb

Weight: <None>
Min Conc: <None>

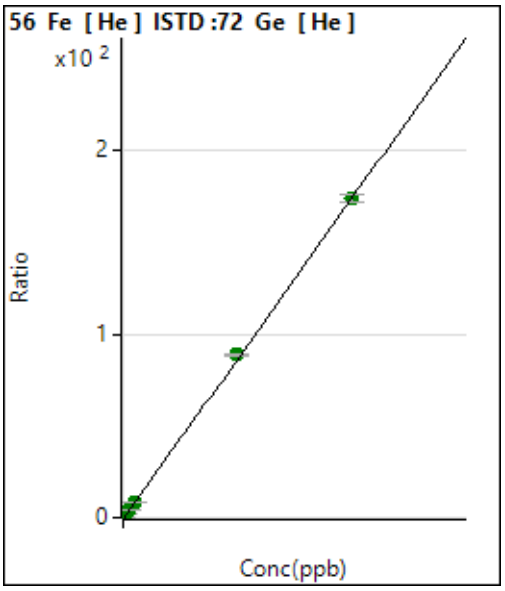


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.71	0.0008	P	21.6	
2	☐	2.000	1.969	15095.15	0.0148	P	4.3	-1.6
3	☐	5.000	4.654	34429.88	0.0339	P	0.8	-6.9
4	☐	10.000	10.065	73347.84	0.0724	P	2.3	0.6
5	☐	100.000	102.130	718660.02	0.7272	P	1.8	2.1
6	☐	200.000	198.941	1377896.85	1.4158	A	3.1	-0.5

y = 0.0071 * x + 7.7875E-004
R = 0.9999
DL = 0.07085 ppb
BEC = 0.1095 ppb

Weight: <None>
Min Conc: <None>

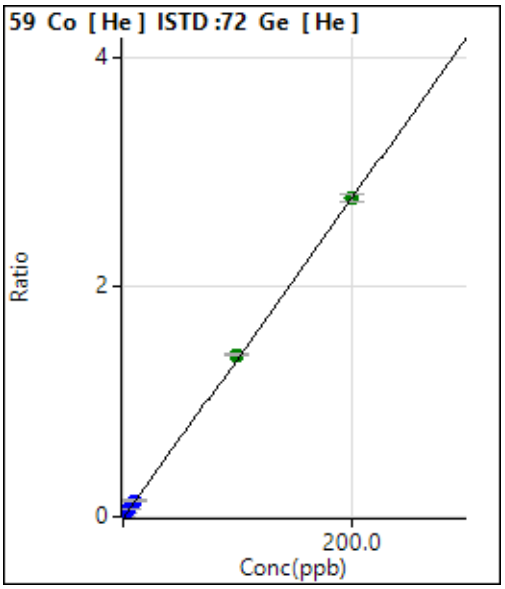
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15725.88	0.0154	P	2.0	
2	☐	200.000	193.738	1745375.60	1.7098	A	1.8	-3.1
3	☐	500.000	463.555	4134670.77	4.0696	A	3.4	-7.3
4	☐	1000.000	996.475	8848571.12	8.7306	A	1.8	-0.4
5	☐	10000.00	10179.44	87995328.69	89.0452	A	1.4	1.8
6	☐	20000.00	19911.42	169492937.4	174.161	A	2.7	-0.4

y = 0.0087 * x + 0.0154
R = 0.9999
DL = 0.1062 ppb
BEC = 1.755 ppb

Weight: <None>
Min Conc: <None>

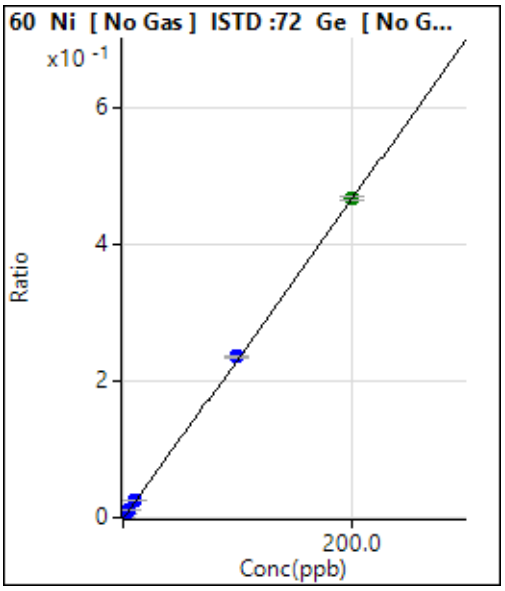


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	6.7	
2	☐	2.000	1.935	27958.63	0.0274	P	3.6	-3.3
3	☐	5.000	4.711	67066.13	0.0660	P	2.9	-5.8
4	☐	10.000	10.116	143133.87	0.1412	P	2.4	1.2
5	☐	100.000	101.294	1393368.26	1.4100	A	1.3	1.3
6	☐	200.000	199.355	2700154.85	2.7745	A	2.0	-0.3

y = 0.0139 * x + 4.6201E-004
R = 1.0000
DL = 0.006679 ppb
BEC = 0.0332 ppb

Weight: <None>
Min Conc: <None>

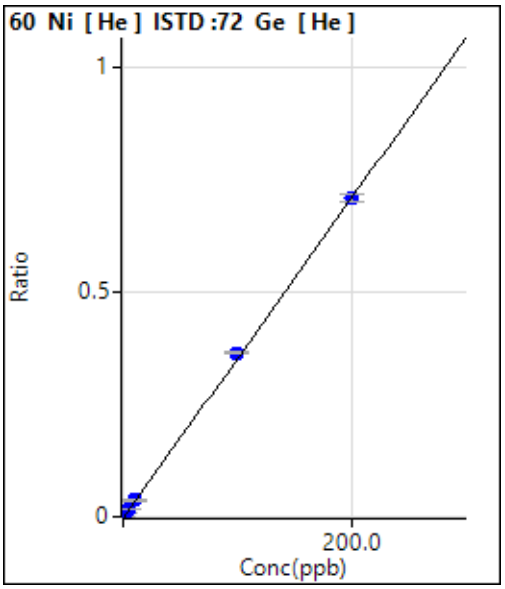
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1140.07	0.0003	P	12.1	
2	☐	2.000	2.089	18719.66	0.0052	P	4.2	4.5
3	☐	5.000	4.963	42488.93	0.0119	P	1.5	-0.7
4	☐	10.000	10.242	85568.15	0.0243	P	1.6	2.4
5	☐	100.000	100.481	813536.68	0.2354	P	2.1	0.5
6	☐	200.000	199.747	1566698.83	0.4677	A	1.4	-0.1

y = 0.0023 * x + 3.1434E-004
R = 1.0000
DL = 0.04884 ppb
BEC = 0.1343 ppb

Weight: <None>
Min Conc: <None>

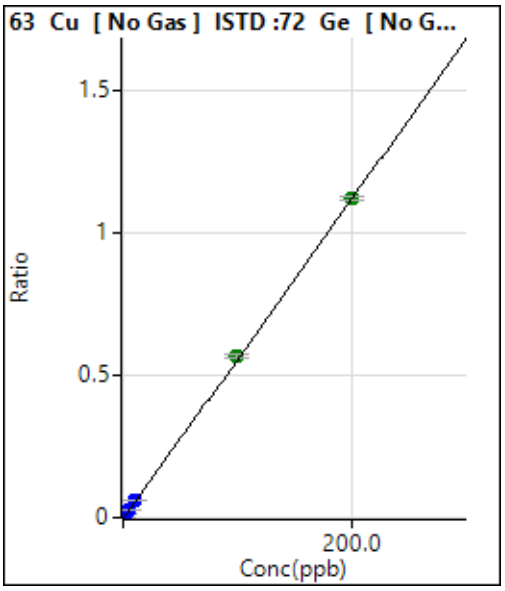


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0003	P	21.5	
2	☐	2.000	1.940	7388.77	0.0072	P	3.1	-3.0
3	☐	5.000	4.780	17651.59	0.0174	P	6.0	-4.4
4	☐	10.000	10.132	36963.30	0.0365	P	5.2	1.3
5	☐	100.000	101.993	359924.07	0.3642	P	1.1	2.0
6	☐	200.000	199.003	691304.39	0.7103	P	2.6	-0.5

y = 0.0036 * x + 3.1933E-004
R = 0.9999
DL = 0.05785 ppb
BEC = 0.0895 ppb

Weight: <None>
Min Conc: <None>

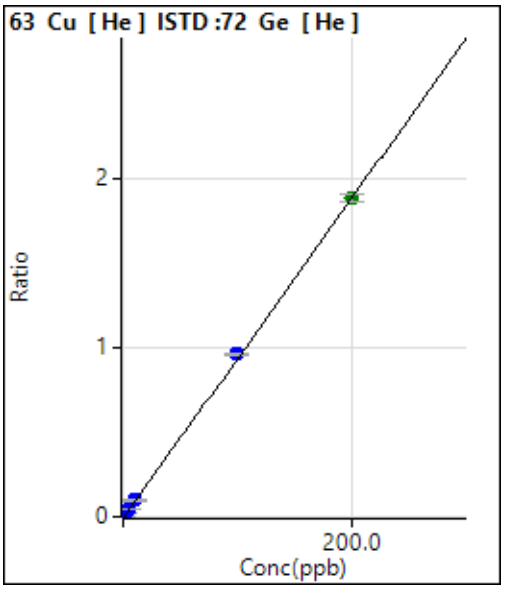
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.29	0.0007	P	7.0	
2	☐	2.000	2.079	44542.26	0.0124	P	4.3	3.9
3	☐	5.000	5.127	105069.14	0.0295	P	3.1	2.5
4	☐	10.000	10.392	208124.53	0.0591	P	1.4	3.9
5	☐	100.000	100.871	1959324.09	0.5670	A	1.9	0.9
6	☐	200.000	199.541	3754985.15	1.1210	A	1.6	-0.2

y = 0.0056 * x + 7.1180E-004
R = 1.0000
DL = 0.02647 ppb
BEC = 0.1268 ppb

Weight: <None>
Min Conc: <None>

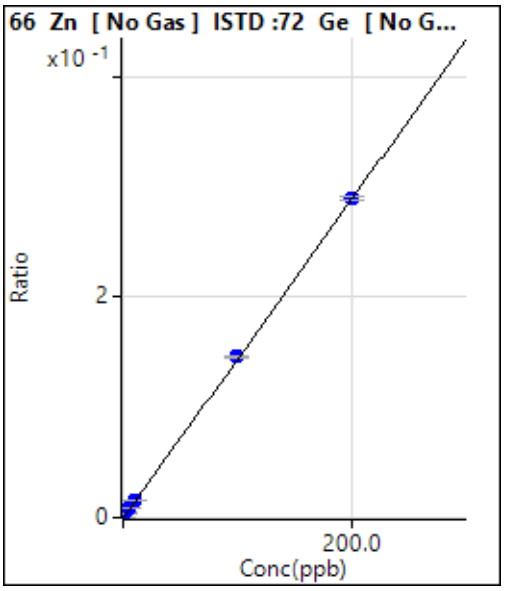


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0006	P	11.1	
2	☐	2.000	2.075	20655.78	0.0202	P	1.1	3.8
3	☐	5.000	4.764	46384.96	0.0457	P	3.5	-4.7
4	☐	10.000	10.175	98121.35	0.0968	P	1.4	1.8
5	☐	100.000	101.490	948807.85	0.9601	P	1.9	1.5
6	☐	200.000	199.252	1833855.39	1.8844	A	2.4	-0.4

y = 0.0095 * x + 6.1822E-004
R = 1.0000
DL = 0.02173 ppb
BEC = 0.06539 ppb

Weight: <None>
Min Conc: <None>

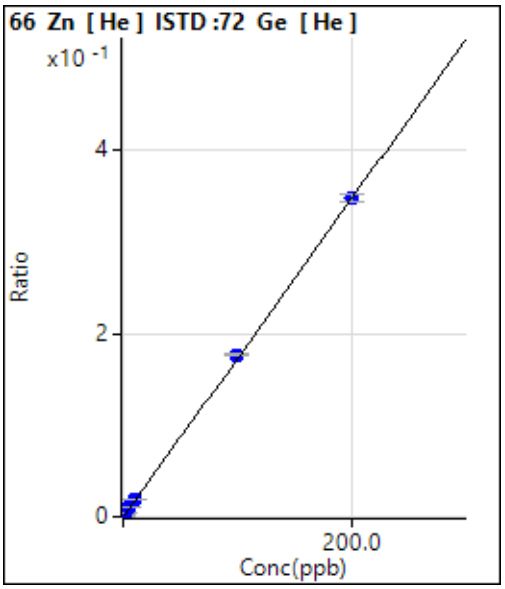
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2643.64	0.0007	P	3.0	
2	☐	2.000	2.593	16123.09	0.0045	P	7.0	29.7
3	☐	5.000	5.195	29385.03	0.0082	P	1.9	3.9
4	☐	10.000	10.221	54709.16	0.0155	P	2.4	2.2
5	☐	100.000	100.589	505658.04	0.1463	P	1.6	0.6
6	☐	200.000	199.684	970670.46	0.2898	P	1.7	-0.2

y = 0.0014 * x + 7.2926E-004
R = 1.0000
DL = 0.04504 ppb
BEC = 0.5038 ppb

Weight: <None>
Min Conc: <None>

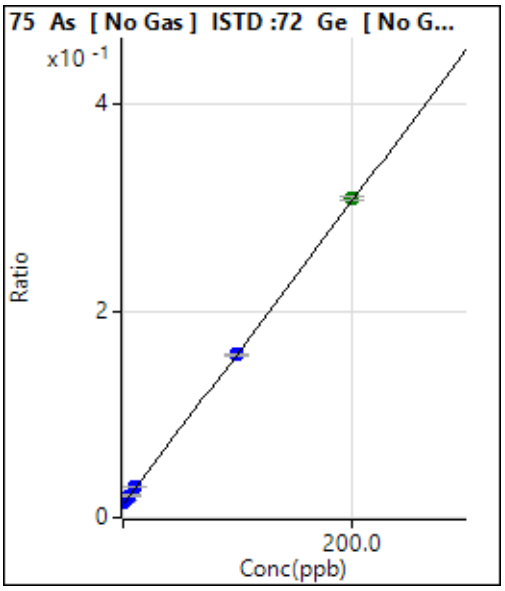


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0011	P	12.7	
2	☐	2.000	2.324	5207.73	0.0051	P	4.5	16.2
3	☐	5.000	5.027	9963.76	0.0098	P	2.6	0.5
4	☐	10.000	9.938	18599.57	0.0184	P	1.3	-0.6
5	☐	100.000	101.169	175068.72	0.1772	P	1.0	1.2
6	☐	200.000	199.415	338842.07	0.3482	P	2.1	-0.3

y = 0.0017 * x + 0.0011
R = 1.0000
DL = 0.2308 ppb
BEC = 0.6061 ppb

Weight: <None>
Min Conc: <None>

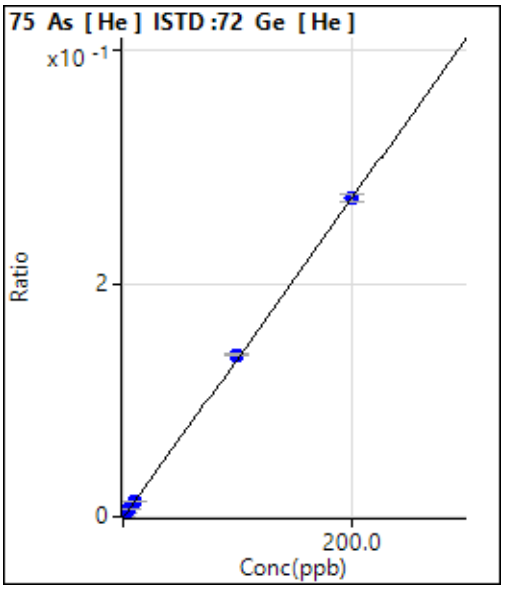
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	51447.16	0.0142	P	0.6	
2	☐	2.000	2.131	62315.82	0.0173	P	1.5	6.5
3	☐	5.000	4.885	76095.41	0.0214	P	3.2	-2.3
4	☐	10.000	10.130	102418.59	0.0291	P	1.2	1.3
5	☐	100.000	97.748	544819.98	0.1577	P	2.0	-2.3
6	☐	200.000	201.121	1036374.02	0.3094	A	1.2	0.6

y = 0.0015 * x + 0.0142
R = 0.9999
DL = 0.1756 ppb
BEC = 9.669 ppb

Weight: <None>
Min Conc: <None>

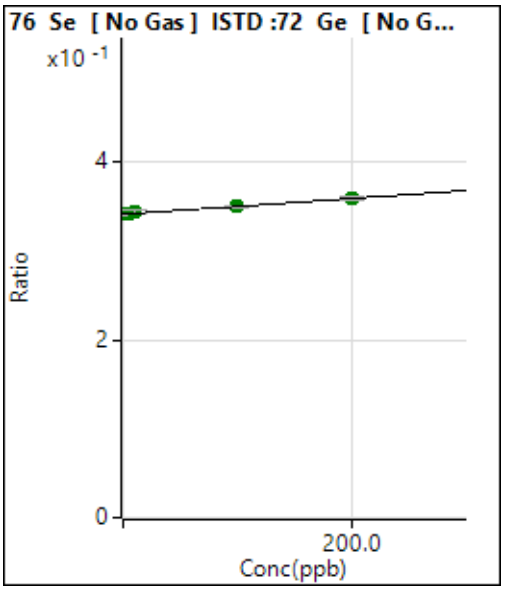


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	275.56	0.0003	P	9.7	
2	☐	2.000	1.951	3008.13	0.0029	P	1.0	-2.4
3	☐	5.000	4.533	6592.74	0.0065	P	2.9	-9.3
4	☐	10.000	9.887	14022.77	0.0138	P	1.3	-1.1
5	☐	100.000	101.339	137682.54	0.1393	P	1.5	1.3
6	☐	200.000	199.349	266474.03	0.2738	P	2.3	-0.3

y = 0.0014 * x + 2.6901E-004
R = 1.0000
DL = 0.0568 ppb
BEC = 0.196 ppb

Weight: <None>
Min Conc: <None>

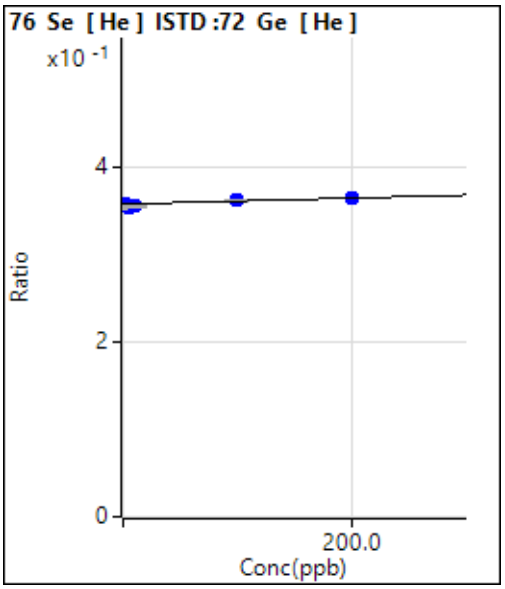
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1237660.55	0.3414	A	0.5	
2	☐	2.000	-1.887	1227906.99	0.3412	A	0.9	-194.3
3	☐	5.000	-1.017	1215855.47	0.3413	A	0.9	-120.3
4	☐	10.000	35.309	1214376.88	0.3446	A	0.9	253.1
5	☐	100.000	96.003	1209468.21	0.3500	A	0.3	-4.0
6	☐	200.000	200.922	1203818.55	0.3594	A	0.7	0.5

y = 8.9525E-005 * x + 0.3414
R = 0.9897
DL = 55.62 ppb
BEC = 3814 ppb

Weight: <None>
Min Conc: <None>

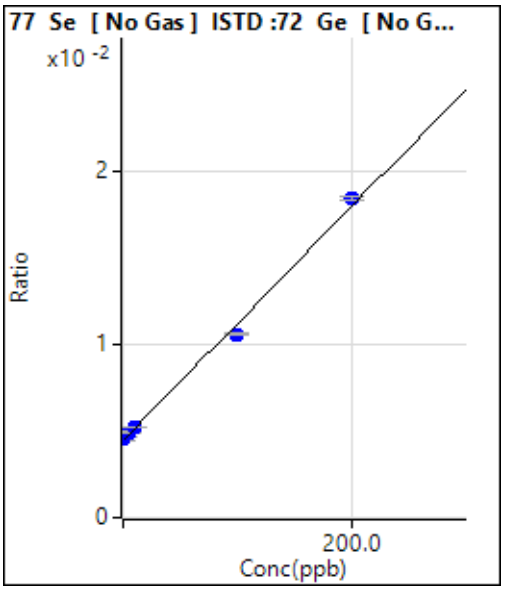


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366192.12	0.3575	P	1.4	
2	☐	2.000	3.643	365071.79	0.3576	P	0.5	82.2
3	☐	5.000	-134.215	358527.12	0.3529	P	0.9	-2784.3
4	☐	10.000	-74.147	359722.92	0.3549	P	0.4	-841.5
5	☐	100.000	112.851	357152.25	0.3614	P	0.7	12.9
6	☐	200.000	201.246	354728.94	0.3645	P	0.2	0.6

y = 3.4707E-005 * x + 0.3575
R = 0.8878
DL = 421.7 ppb
BEC = 1.03E+04 ppb

Weight: <None>
Min Conc: <None>

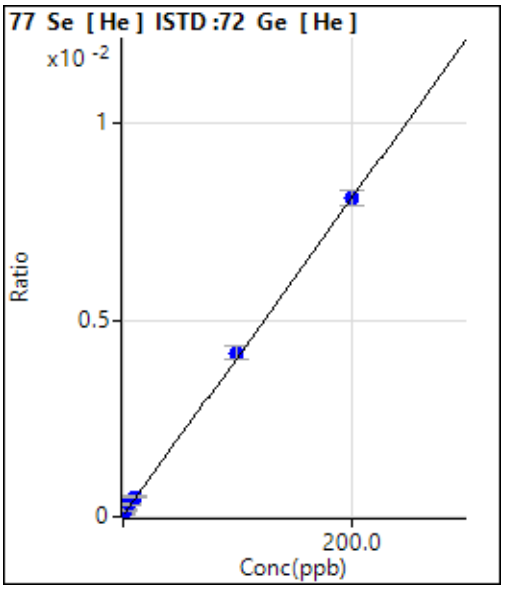
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16567.02	0.0046	P	3.3	
2	☐	2.000	3.590	17307.97	0.0048	P	5.7	79.5
3	☐	5.000	5.083	17498.25	0.0049	P	2.2	1.7
4	☐	10.000	9.865	18449.49	0.0052	P	1.1	-1.4
5	☐	100.000	88.905	36515.87	0.0106	P	1.3	-11.1
6	☐	200.000	205.536	61753.39	0.0184	P	1.6	2.8

y = 6.7460E-005 * x + 0.0046
R = 0.9978
DL = 6.633 ppb
BEC = 67.74 ppb

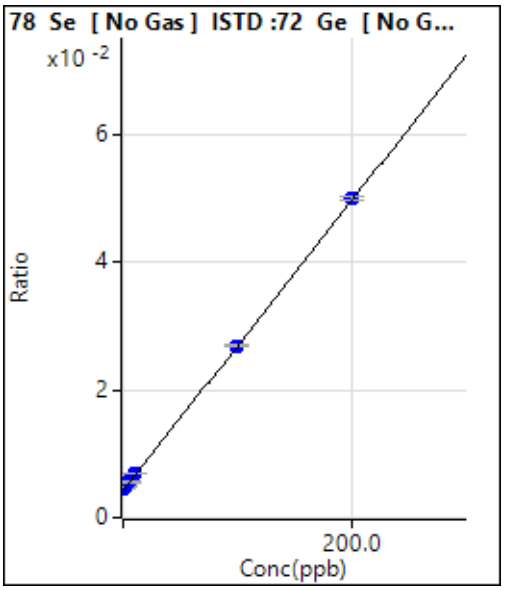
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	40.3	
2	☐	2.000	1.955	156.67	0.0002	P	32.3	-2.2
3	☐	5.000	6.357	336.68	0.0003	P	11.5	27.1
4	☐	10.000	10.697	513.35	0.0005	P	7.0	7.0
5	☐	100.000	101.492	4120.70	0.0042	P	7.8	1.5
6	☐	200.000	199.186	7892.41	0.0081	P	4.7	-0.4

y = 4.0337E-005 * x + 7.4969E-005
R = 0.9999
DL = 2.248 ppb
BEC = 1.859 ppb

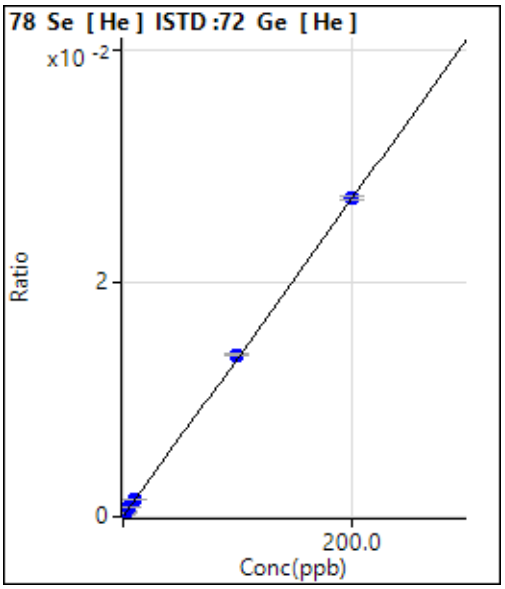
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16319.97	0.0045	P	3.2	
2	☐	2.000	1.964	17805.22	0.0049	P	2.2	-1.8
3	☐	5.000	4.774	19898.11	0.0056	P	2.7	-4.5
4	☐	10.000	10.228	24051.54	0.0068	P	1.1	2.3
5	☐	100.000	98.925	93174.56	0.0270	P	2.1	-1.1
6	☐	200.000	200.532	167600.48	0.0500	P	1.4	0.3

y = 2.2705E-004 * x + 0.0045
R = 1.0000
DL = 1.893 ppb
BEC = 19.83 ppb

Weight: <None>
Min Conc: <None>

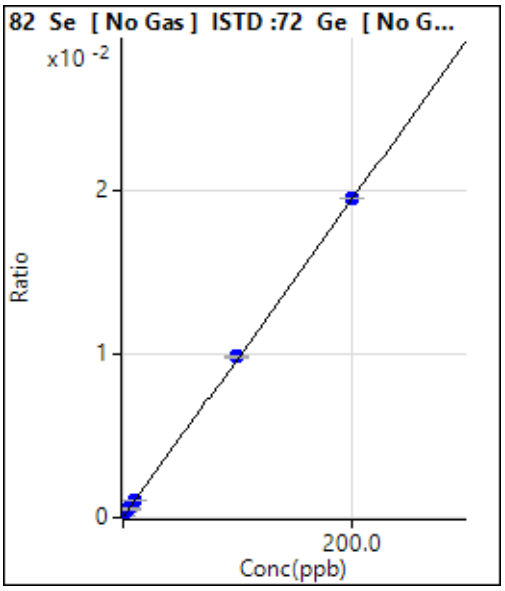


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	9.6	
2	☐	2.000	1.909	418.01	0.0004	P	5.2	-4.5
3	☐	5.000	4.559	782.02	0.0008	P	5.3	-8.8
4	☐	10.000	9.724	1492.09	0.0015	P	2.1	-2.8
5	☐	100.000	100.609	13671.52	0.0138	P	1.3	0.6
6	☐	200.000	199.721	26583.17	0.0273	P	1.7	-0.1

y = 1.3602E-004 * x + 1.4967E-004
R = 1.0000
DL = 0.3154 ppb
BEC = 1.1 ppb

Weight: <None>
Min Conc: <None>

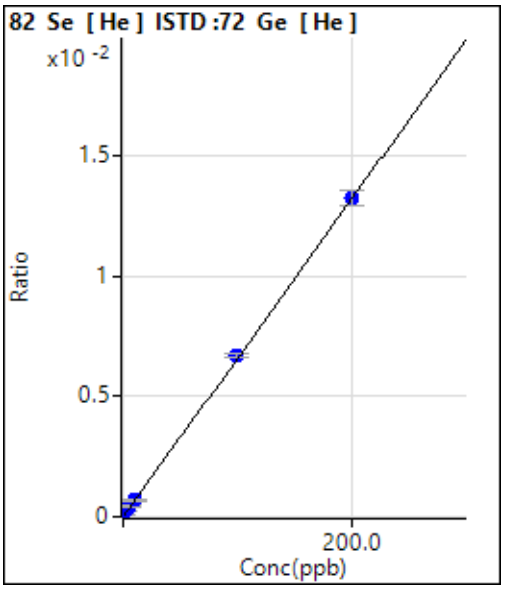
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	456.68	0.0001	P	5.8	
2	☐	2.000	1.884	1110.07	0.0003	P	8.5	-5.8
3	☐	5.000	4.376	1956.84	0.0005	P	16.8	-12.5
4	☐	10.000	9.841	3800.62	0.0011	P	3.4	-1.6
5	☐	100.000	100.091	33909.42	0.0098	P	1.1	0.1
6	☐	200.000	199.979	65250.04	0.0195	P	0.5	0.0

y = 9.6778E-005 * x + 1.2599E-004
R = 1.0000
DL = 0.228 ppb
BEC = 1.302 ppb

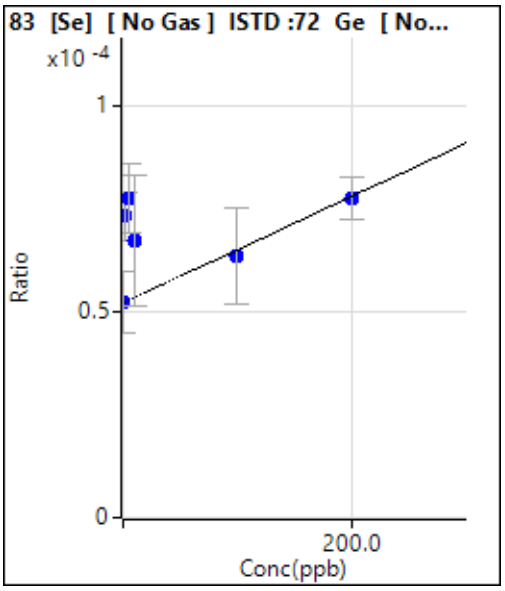
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	48.3	
2	☐	2.000	2.876	256.67	0.0003	P	20.3	43.8
3	☐	5.000	5.325	420.01	0.0004	P	14.6	6.5
4	☐	10.000	9.478	696.70	0.0007	P	6.5	-5.2
5	☐	100.000	100.664	6628.38	0.0067	P	2.2	0.7
6	☐	200.000	199.677	12889.65	0.0132	P	4.7	-0.2

y = 6.6026E-005 * x + 6.1791E-005
R = 1.0000
DL = 1.355 ppb
BEC = 0.9359 ppb

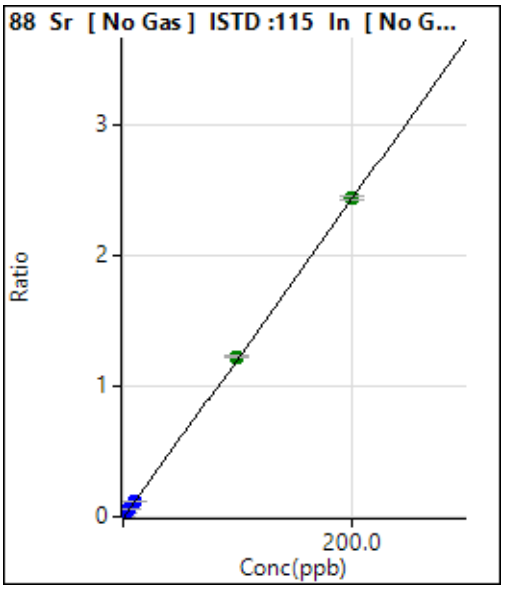
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0001	P	29.2	
2	☐	2.000	160.998	263.34	0.0001	P	15.7	7949.9
3	☐	5.000	195.136	276.67	0.0001	P	21.8	3802.7
4	☐	10.000	113.850	236.67	0.0001	P	47.4	1038.5
5	☐	100.000	87.172	220.01	0.0001	P	36.3	-12.8
6	☐	200.000	194.878	260.01	0.0001	P	13.6	-2.6

y = 1.2939E-007 * x + 5.2389E-005
R = 0.3384
DL = 354.2 ppb
BEC = 404.9 ppb

Weight: <None>
Min Conc: <None>

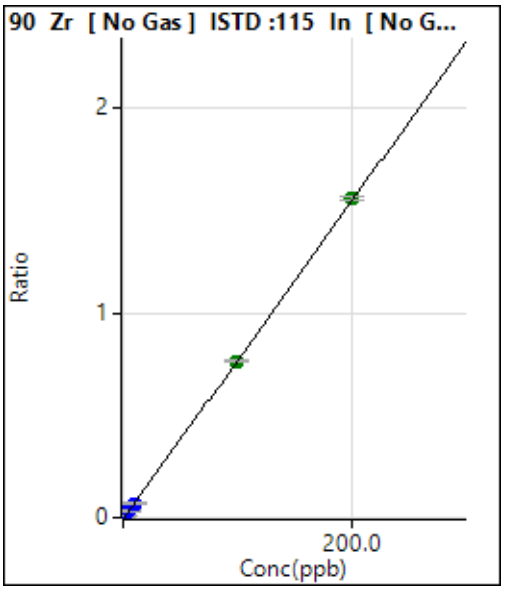


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2720.33	0.0006	P	1.3	
2	☐	2.000	1.918	115680.83	0.0240	P	3.6	-4.1
3	☐	5.000	4.674	274822.35	0.0577	P	2.7	-6.5
4	☐	10.000	9.606	558292.01	0.1179	P	1.2	-3.9
5	☐	100.000	100.334	5622582.41	1.2266	A	1.6	0.3
6	☐	200.000	199.862	10854979.42	2.4427	A	1.6	-0.1

y = 0.0122 * x + 5.6362E-004
R = 1.0000
DL = 0.001788 ppb
BEC = 0.04613 ppb

Weight: <None>
Min Conc: <None>

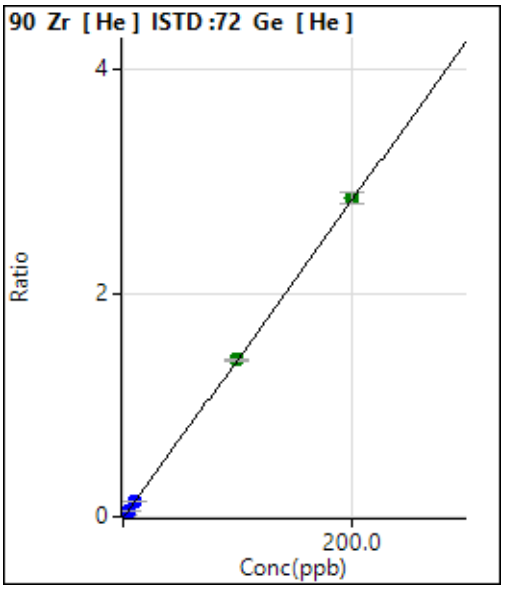
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1500.12	0.0003	P	4.5	
2	☐	2.000	1.579	60605.85	0.0126	P	3.5	-21.1
3	☐	5.000	4.224	157845.84	0.0331	P	1.6	-15.5
4	☐	10.000	9.031	333555.66	0.0705	P	1.3	-9.7
5	☐	100.000	98.493	3508521.30	0.7654	A	1.6	-1.5
6	☐	200.000	200.825	6933572.40	1.5603	A	1.7	0.4

y = 0.0078 * x + 3.1077E-004
R = 1.0000
DL = 0.005422 ppb
BEC = 0.04001 ppb

Weight: <None>
Min Conc: <None>

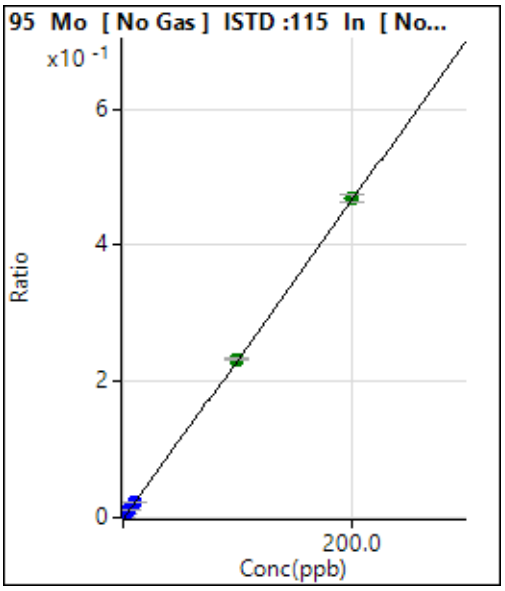


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1653.47	0.0016	P	2.9	
2	☐	2.000	1.616	25073.49	0.0246	P	0.4	-19.2
3	☐	5.000	4.022	59668.60	0.0587	P	3.2	-19.6
4	☐	10.000	9.094	132514.31	0.1308	P	0.9	-9.1
5	☐	100.000	98.692	1386536.54	1.4031	A	1.6	-1.3
6	☐	200.000	200.727	2775580.06	2.8520	A	3.3	0.4

y = 0.0142 * x + 0.0016
R = 1.0000
DL = 0.00979 ppb
BEC = 0.1137 ppb

Weight: <None>
Min Conc: <None>

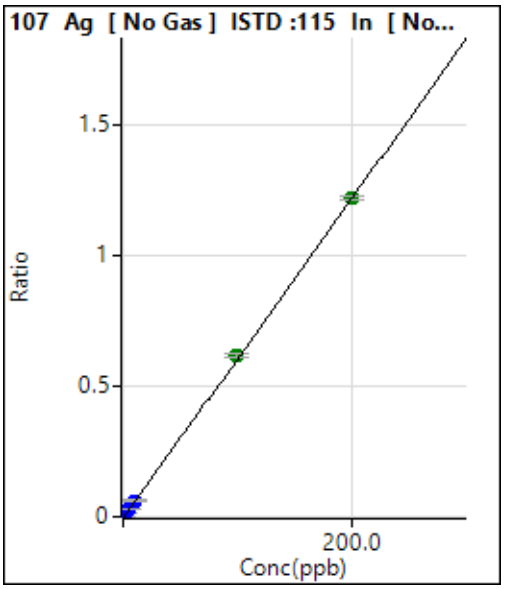
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0000	P	14.4	
2	☐	2.000	1.883	21400.67	0.0044	P	5.6	-5.8
3	☐	5.000	4.740	52997.70	0.0111	P	3.2	-5.2
4	☐	10.000	9.766	108289.74	0.0229	P	2.2	-2.3
5	☐	100.000	99.145	1063037.25	0.2319	A	1.5	-0.9
6	☐	200.000	200.447	2083280.91	0.4688	A	2.0	0.2

y = 0.0023 * x + 3.7283E-005
R = 1.0000
DL = 0.006897 ppb
BEC = 0.01594 ppb

Weight: <None>
Min Conc: <None>

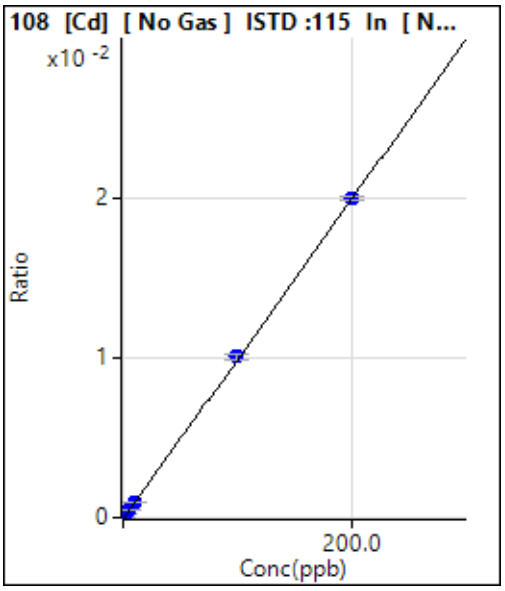


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	563.36	0.0001	P	19.7	
2	☐	2.000	1.982	59110.94	0.0123	P	5.8	-0.9
3	☐	5.000	4.989	146313.89	0.0307	P	2.5	-0.2
4	☐	10.000	10.156	295294.82	0.0624	P	2.2	1.6
5	☐	100.000	100.952	2837639.54	0.6190	A	2.0	1.0
6	☐	200.000	199.517	5436208.46	1.2233	A	1.6	-0.2

y = 0.0061 * x + 1.1667E-004
R = 1.0000
DL = 0.01124 ppb
BEC = 0.01903 ppb

Weight: <None>
Min Conc: <None>

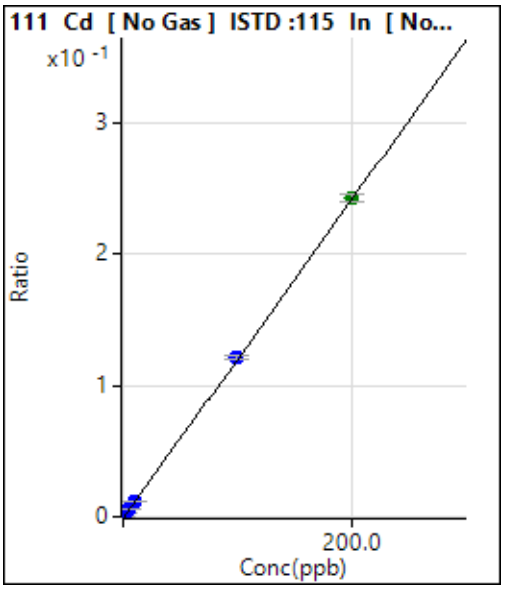
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.8	
2	☐	2.000	1.973	966.72	0.0002	P	10.2	-1.4
3	☐	5.000	4.587	2200.23	0.0005	P	7.8	-8.3
4	☐	10.000	9.878	4687.55	0.0010	P	4.8	-1.2
5	☐	100.000	100.823	46183.27	0.0101	P	3.3	0.8
6	☐	200.000	199.605	88623.15	0.0199	P	1.7	-0.2

y = 9.9895E-005 * x + 3.4585E-006
R = 1.0000
DL = 0.09532 ppb
BEC = 0.03462 ppb

Weight: <None>
Min Conc: <None>

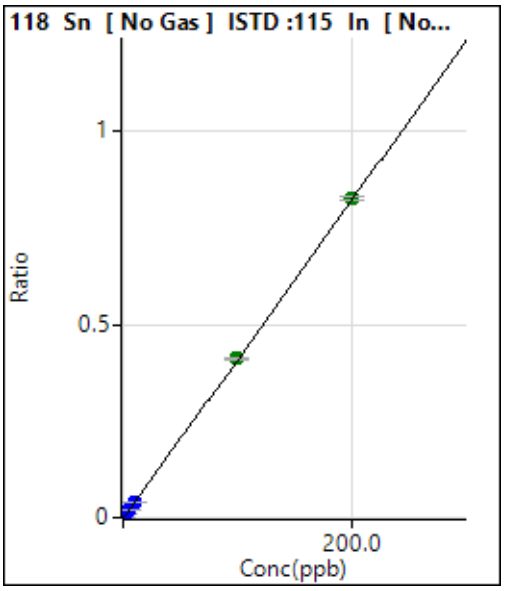


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	1767.2	
2	☐	2.000	1.989	11652.29	0.0024	P	7.3	-0.5
3	☐	5.000	4.895	28351.58	0.0059	P	3.0	-2.1
4	☐	10.000	9.976	57393.26	0.0121	P	1.1	-0.2
5	☐	100.000	99.788	555905.83	0.1213	P	1.9	-0.2
6	☐	200.000	200.110	1080698.31	0.2432	A	2.2	0.1

y = 0.0012 * x + 4.2489E-007
R = 1.0000
DL = 0.01854 ppb
BEC = 0.0003496 ppb

Weight: <None>
Min Conc: <None>

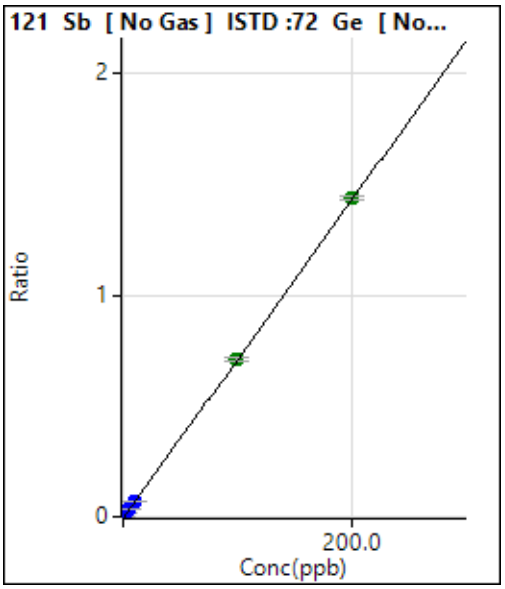
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5994.83	0.0012	P	4.0	
2	☐	2.000	1.988	45454.68	0.0094	P	2.0	-0.6
3	☐	5.000	4.816	100455.34	0.0211	P	3.8	-3.7
4	☐	10.000	9.731	195611.74	0.0413	P	2.3	-2.7
5	☐	100.000	99.480	1883908.35	0.4110	A	1.7	-0.5
6	☐	200.000	200.278	3671235.88	0.8261	A	1.5	0.1

y = 0.0041 * x + 0.0012
R = 1.0000
DL = 0.03613 ppb
BEC = 0.3015 ppb

Weight: <None>
Min Conc: <None>

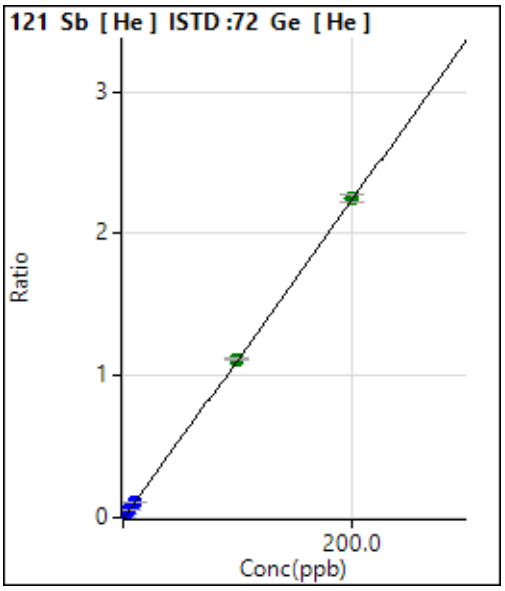


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	630.03	0.0002	P	21.1	
2	☐	2.000	1.992	52115.90	0.0145	P	3.5	-0.4
3	☐	5.000	4.865	125139.38	0.0351	P	2.2	-2.7
4	☐	10.000	9.981	253345.43	0.0719	P	2.1	-0.2
5	☐	100.000	99.149	2462252.41	0.7125	A	1.9	-0.9
6	☐	200.000	200.430	4824383.26	1.4402	A	1.0	0.2

y = 0.0072 * x + 1.7372E-004
R = 1.0000
DL = 0.01532 ppb
BEC = 0.02418 ppb

Weight: <None>
Min Conc: <None>

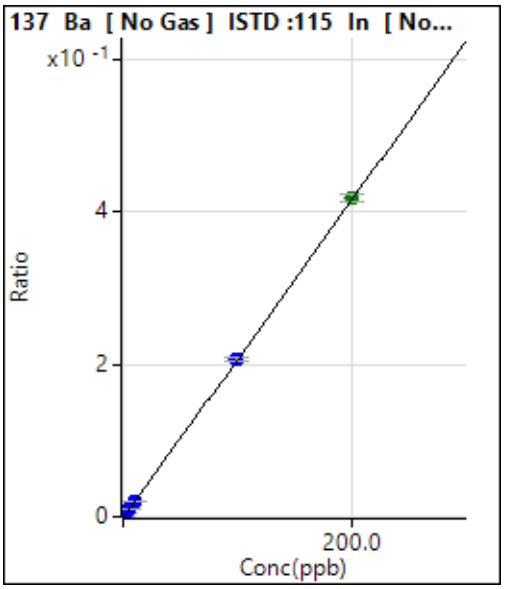
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	5.2	
2	☐	2.000	1.890	22001.94	0.0216	P	2.1	-5.5
3	☐	5.000	4.610	52915.74	0.0521	P	5.0	-7.8
4	☐	10.000	9.876	112712.84	0.1112	P	1.2	-1.2
5	☐	100.000	99.363	1102755.27	1.1159	A	1.4	-0.6
6	☐	200.000	200.336	2189283.67	2.2496	A	2.8	0.2

y = 0.0112 * x + 3.2553E-004
R = 1.0000
DL = 0.004501 ppb
BEC = 0.02899 ppb

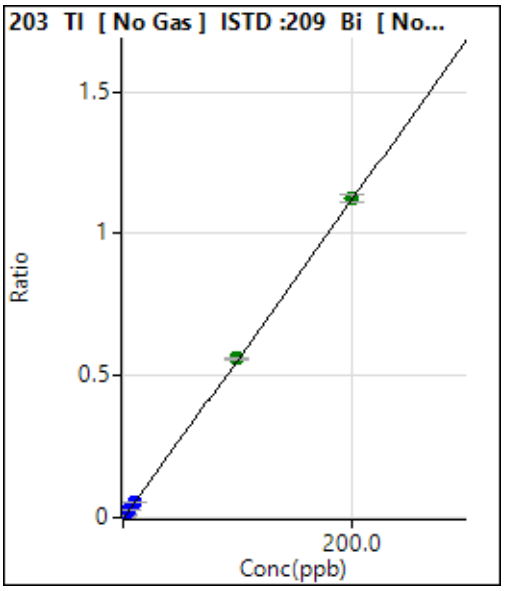
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	750.04	0.0002	P	8.0	
2	☐	2.000	2.225	23080.65	0.0048	P	3.5	11.3
3	☐	5.000	4.883	49202.37	0.0103	P	1.8	-2.3
4	☐	10.000	9.822	97567.53	0.0206	P	2.7	-1.8
5	☐	100.000	99.103	946776.08	0.2065	P	2.4	-0.9
6	☐	200.000	200.458	1855807.79	0.4176	A	2.3	0.2

y = 0.0021 * x + 1.5540E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.07462 ppb

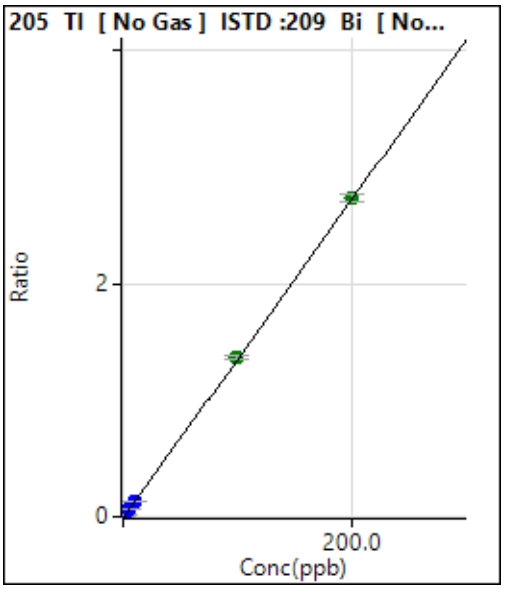
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	966.73	0.0002	P	15.3	
2	☐	2.000	1.759	50916.07	0.0101	P	2.4	-12.0
3	☐	5.000	4.852	137122.61	0.0275	P	0.8	-3.0
4	☐	10.000	9.607	270114.98	0.0542	P	1.3	-3.9
5	☐	100.000	99.642	2698179.02	0.5600	A	2.0	-0.4
6	☐	200.000	200.205	5248397.11	1.1250	A	2.0	0.1

y = 0.0056 * x + 1.9170E-004
R = 1.0000
DL = 0.01567 ppb
BEC = 0.03412 ppb

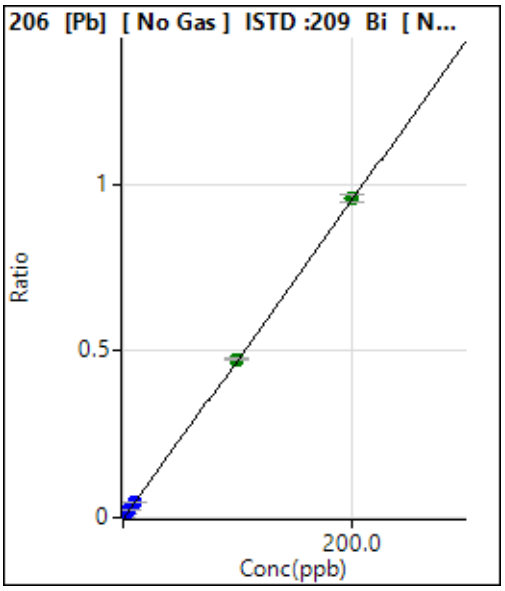
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2420.28	0.0005	P	10.6	
2	☐	2.000	1.718	121094.16	0.0240	P	2.2	-14.1
3	☐	5.000	4.694	322862.55	0.0646	P	2.3	-6.1
4	☐	10.000	9.378	641550.62	0.1287	P	1.4	-6.2
5	☐	100.000	99.843	6577152.19	1.3651	A	1.9	-0.2
6	☐	200.000	200.120	12762014.39	2.7357	A	2.3	0.1

y = 0.0137 * x + 4.8003E-004
R = 1.0000
DL = 0.01114 ppb
BEC = 0.03512 ppb

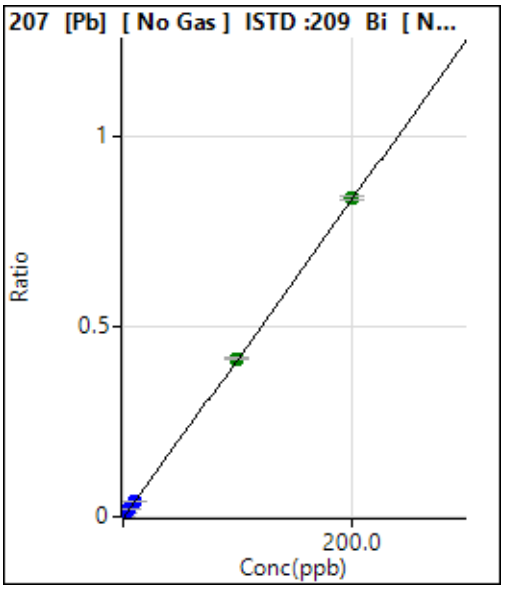
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.10	0.0003	P	12.9	
2	☐	2.000	1.931	48008.39	0.0095	P	2.5	-3.4
3	☐	5.000	4.813	116313.41	0.0233	P	2.4	-3.7
4	☐	10.000	9.862	236588.30	0.0474	P	1.1	-1.4
5	☐	100.000	99.202	2287999.70	0.4749	A	1.1	-0.8
6	☐	200.000	200.411	4474287.64	0.9591	A	2.4	0.2

y = 0.0048 * x + 2.5998E-004
R = 1.0000
DL = 0.02109 ppb
BEC = 0.05434 ppb

Weight: <None>
Min Conc: <None>

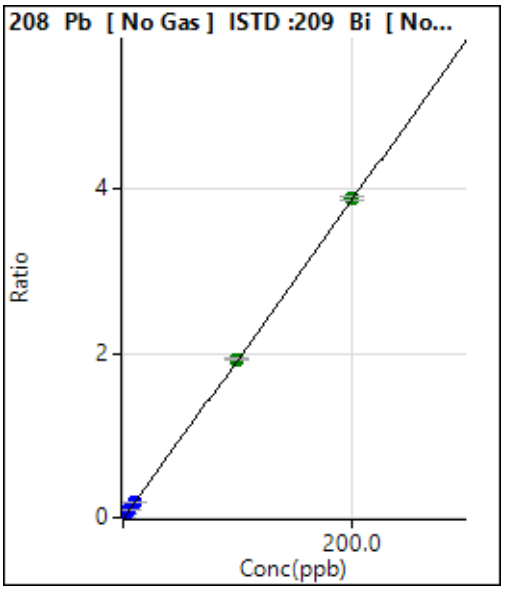


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.40	0.0002	P	18.4	
2	☐	2.000	1.990	43057.33	0.0085	P	3.7	-0.5
3	☐	5.000	4.830	101819.59	0.0204	P	2.3	-3.4
4	☐	10.000	9.895	207160.69	0.0415	P	0.8	-1.1
5	☐	100.000	99.405	2001749.35	0.4155	A	1.1	-0.6
6	☐	200.000	200.307	3904667.86	0.8370	A	1.4	0.2

y = 0.0042 * x + 2.0889E-004
R = 1.0000
DL = 0.02763 ppb
BEC = 0.05 ppb

Weight: <None>
Min Conc: <None>

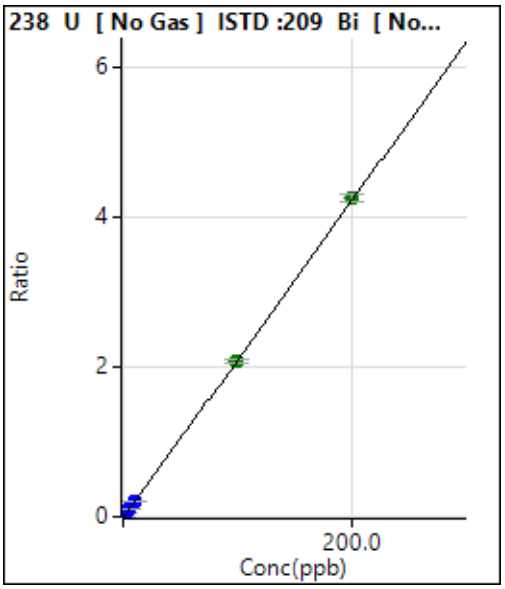
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4887.13	0.0010	P	5.0	
2	☐	2.000	1.935	194683.53	0.0385	P	2.2	-3.2
3	☐	5.000	4.764	466644.01	0.0934	P	2.5	-4.7
4	☐	10.000	9.801	953267.28	0.1912	P	1.1	-2.0
5	☐	100.000	99.403	9298822.52	1.9300	A	1.5	-0.6
6	☐	200.000	200.315	18139288.68	3.8883	A	1.8	0.2

y = 0.0194 * x + 9.6954E-004
R = 1.0000
DL = 0.007453 ppb
BEC = 0.04996 ppb

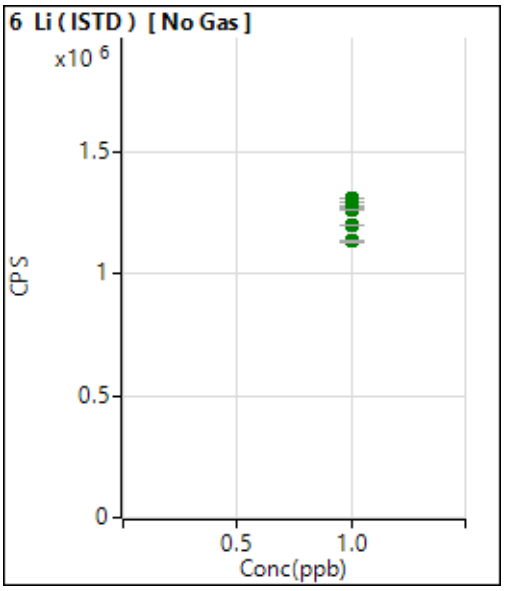
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Min Conc: <None>



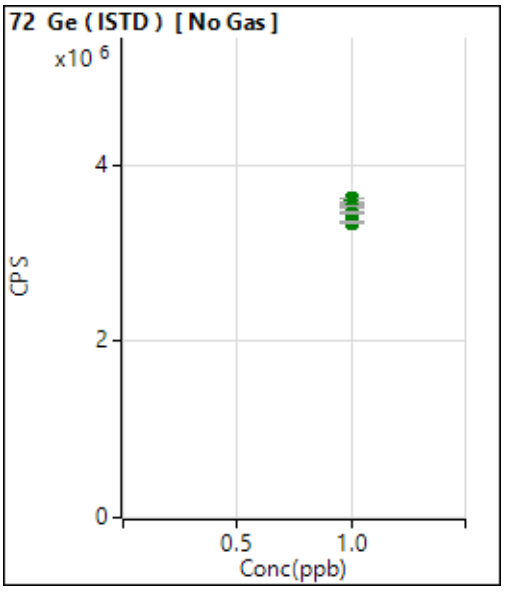
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3043.77	0.0006	P	2.2	
2	☐	2.000	1.849	201086.55	0.0398	P	2.5	-7.6
3	☐	5.000	4.635	493778.96	0.0989	P	1.9	-7.3
4	☐	10.000	9.453	1002347.72	0.2010	P	2.1	-5.5
5	☐	100.000	98.280	10041080.06	2.0841	A	1.9	-1.7
6	☐	200.000	200.898	19870878.87	4.2595	A	2.0	0.4

y = 0.0212 * x + 6.0384E-004
R = 1.0000
DL = 0.001907 ppb
BEC = 0.02848 ppb

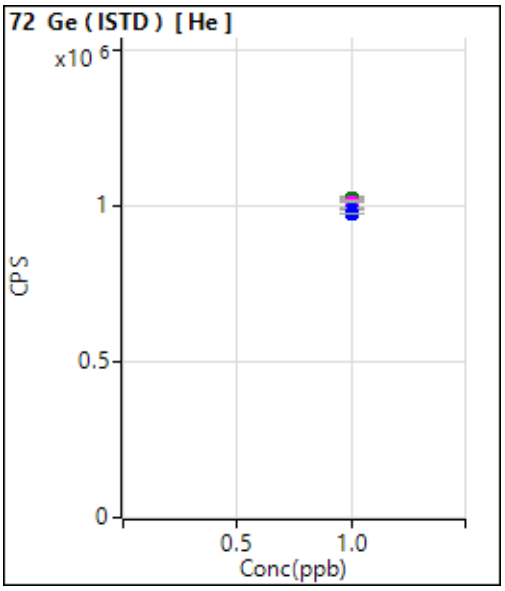
Weight: <None>
Min Conc: <None>



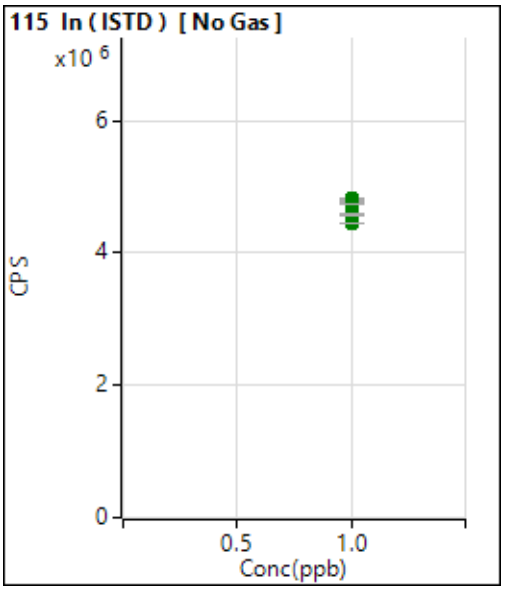
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1311505.51		A	0.4	
2	☐	1.000		1296398.91		A	0.1	
3	☐	1.000		1278167.75		A	0.4	
4	☐	1.000		1261653.96		A	0.2	
5	☐	1.000		1199454.34		A	0.2	
6	☐	1.000		1134408.06		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3625271.30		A	0.6	
2	☐	1.000		3598500.99		A	1.0	
3	☐	1.000		3562325.88		A	0.5	
4	☐	1.000		3524402.97		A	0.3	
5	☐	1.000		3455665.26		A	0.5	
6	☐	1.000		3349657.03		A	0.5	

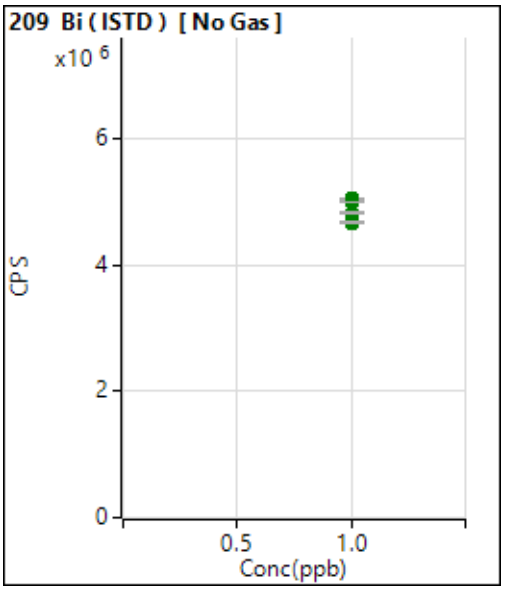


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1024230.63		A	0.8	
2	☐	1.000		1020789.39		M	1.2	
3	☐	1.000		1016078.66		A	0.7	
4	☐	1.000		1013447.93		M	0.6	
5	☐	1.000		988164.15		P	0.5	
6	☐	1.000		973176.52		P	0.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4826623.82		A	0.3	
2	☐	1.000		4819854.81		A	0.6	
3	☐	1.000		4765231.99		A	0.2	
4	☐	1.000		4733707.72		A	0.3	
5	☐	1.000		4584168.55		A	0.3	
6	☐	1.000		4443870.86		A	0.1	

Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5040995.86		A	0.4	
2	☐	1.000		5052988.15		A	0.5	
3	☐	1.000		4994818.26		A	0.3	
4	☐	1.000		4986532.84		A	0.2	
5	☐	1.000		4817898.16		A	0.5	
6	☐	1.000		4665364.62		A	0.7	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	023LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:19:59-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.058	2.058	3.26	107386	0.00	2	
Be	9	1	No Gas	2.069	2.069	4.75	9528	0.02	2	
V	51	2	He	1.886	1.886	2.91	21277	0.01	2	
Cr	52	2	He	2.168	2.168	1.89	27758	0.01	2	
Fe	56	2	He	219.280	219.280	3.01	1936430	0.01	200	
Se	78	2	He	2.080	2.080	2.81	433	0.48	2	
As	75	2	He	2.130	2.130	1.69	3197	0.07	2	
Ca	44	2	He	233.630	233.630	3.86	13277	1.76	200	
Na	23	2	He	290.982	290.982	2.07	485048	0.06	200	NewName Main CR1 Failed
Mg	24	2	He	222.535	222.535	1.46	186421	0.12	200	
K	39	2	He	210.372	210.372	3.79	308290	0.07	200	
Mn	55	2	He	2.208	2.208	2.05	16510	0.01	2	
Co	59	2	He	2.165	2.165	2.53	30648	0.01	2	
Ni	60	2	He	2.300	2.300	0.84	8539	0.03	2	
Cu	63	2	He	2.318	2.318	2.30	22569	0.01	2	
Zn	66	2	He	2.552	2.552	3.62	5508	0.05	2	
Al	27	2	He	4.397	4.397	8.43	3847	0.11	2	NewName Main CR1 Failed
B	11	1	No Gas	11.993	11.993	1.49	48012	0.02	10	
Al	27	1	No Gas	3.973	3.973	7.84	140242	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	11.041	11.041	6.42	512457	0.00	10	
Ag	107	1	No Gas	2.120	2.120	3.75	61957	0.00	2	
Cd	111	1	No Gas	2.080	2.080	2.20	11945	0.02	2	
Sr	88	1	No Gas	2.276	2.276	2.00	134066	0.00	2	
Mo	95	1	No Gas	2.056	2.056	1.04	22903	0.01	2	
Sn	118	1	No Gas	2.160	2.160	3.63	47920	0.00	2	
Sb	121	1	No Gas	2.139	2.139	1.53	54552	0.00	2	
Ba	137	1	No Gas	2.393	2.393	2.79	24279	0.01	2	
Tl	205	1	No Gas	1.842	1.842	0.93	127557	0.00	2	
Tl	203	1	No Gas	1.915	1.915	2.20	54454	0.00	2	
Pb	208	1	No Gas	2.078	2.078	1.94	205375	0.00	2	
U	238	1	No Gas	1.966	1.966	2.01	210215	0.00	2	
Ca	43	2	He	266.477	266.477	18.95	873	30.51	200	NewName Main CR1 Failed
Sb	121	2	He	2.164	2.164	3.98	24663	0.01	2	
Ti	47	2	He	2.147	2.147	6.18	663	0.32	200	
Cu	63	1	No Gas	2.237	2.237	3.28	46586	0.00	2	
Se	82	1	No Gas	2.358	2.358	8.92	1243	0.19	2	
Zr	90	1	No Gas	1.793	1.793	3.66	67274	0.00	2	
Zr	90	2	He	1.900	1.900	2.82	28644	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1239564	0.51	1311506	94.51	70	120	
Ge	72	2	He	1001743	0.68	1024231	97.80	70	120	
Ge	72	1	No Gas	3510359	0.90	3625271	96.83	70	120	
In	115	1	No Gas	4725931	0.74	4826624	97.91	70	120	
Bi	209	1	No Gas	4972731	0.53	5040996	98.65	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	024LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:22:23-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.964	4.964	2.27	159916	0.00	5	
Be	9	1	No Gas	5.026	5.026	3.85	22855	0.02	5	
V	51	2	He	4.977	4.977	1.38	46220	0.01	5	
Cr	52	2	He	5.226	5.226	3.11	55639	0.01	5	
Fe	56	2	He	521.772	521.772	2.10	4629401	0.01	500	
Se	78	2	He	4.774	4.774	9.29	808	0.59	5	
As	75	2	He	5.154	5.154	3.32	7422	0.07	5	
Ca	44	2	He	519.756	519.756	1.64	28770	1.81	500	
Na	23	2	He	574.257	574.257	1.75	874163	0.07	500	
Mg	24	2	He	527.396	527.396	1.51	444332	0.12	500	
K	39	2	He	509.147	509.147	1.18	618180	0.08	500	
Mn	55	2	He	5.335	5.335	2.23	39156	0.01	5	
Co	59	2	He	5.271	5.271	1.64	74628	0.01	5	
Ni	60	2	He	5.393	5.393	4.33	19781	0.03	5	
Cu	63	2	He	5.221	5.221	4.01	50530	0.01	5	
Zn	66	2	He	5.401	5.401	1.57	10571	0.05	5	
Al	27	2	He	6.208	6.208	12.68	4874	0.13	5	
B	11	1	No Gas	25.581	25.581	1.09	82041	0.03	25	
Al	27	1	No Gas	5.625	5.625	2.31	174372	0.00	5	
Si	28	1	No Gas	25.790	25.790	0.80	667378	0.00	25	
Ag	107	1	No Gas	5.202	5.202	1.98	152259	0.00	5	
Cd	111	1	No Gas	5.007	5.007	1.50	28946	0.02	5	
Sr	88	1	No Gas	5.154	5.154	1.44	302243	0.00	5	
Mo	95	1	No Gas	4.974	4.974	2.07	55511	0.01	5	
Sn	118	1	No Gas	5.094	5.094	1.21	105705	0.00	5	
Sb	121	1	No Gas	5.176	5.176	0.87	131070	0.00	5	
Ba	137	1	No Gas	5.133	5.133	2.26	51585	0.01	5	
Tl	205	1	No Gas	4.951	4.951	1.59	342706	0.00	5	
Tl	203	1	No Gas	5.031	5.031	0.85	143078	0.00	5	
Pb	208	1	No Gas	5.053	5.053	1.83	497930	0.00	5	
U	238	1	No Gas	4.859	4.859	0.72	520948	0.00	5	
Ca	43	2	He	522.554	522.554	11.54	1683	31.04	500	
Sb	121	2	He	5.175	5.175	0.86	59078	0.01	5	
Ti	47	2	He	4.893	4.893	2.72	1517	0.32	5	
Cu	63	1	No Gas	5.351	5.351	0.30	107881	0.00	5	
Se	82	1	No Gas	4.873	4.873	11.40	2097	0.23	5	
Zr	90	1	No Gas	4.461	4.461	0.76	166289	0.00	5	
Zr	90	2	He	4.634	4.634	0.95	68158	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1234538	0.60	1311506	94.13	70	120	

Sample Report

Ge	72	2	He	1011062	0.80	1024231	98.71	70	120	
Ge	72	1	No Gas	3508086	0.50	3625271	96.77	70	120	
In	115	1	No Gas	4756222	0.73	4826624	98.54	70	120	
Bi	209	1	No Gas	5028036	0.84	5040996	99.74	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	025_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:24:47-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.019	82.1	70126	0.4	0.5	
Be	9	1	No Gas	0.051	17.1	373	10.8	0.5	
V	51	2	He	-0.122	-6.6	5378	2.4	2.5	
Cr	52	2	He	0.136	19.5	9624	2.5	2.5	
Fe	56	2	He	10.257	3.0	105736	3.8	100	
Se	78	2	He	-0.048	-158.3	144	6.4	1	
As	75	2	He	0.072	52.3	371	15.4	2.5	
Ca	44	2	He	58.325	5.9	3964	3.9	100	
Na	23	2	He	65.923	0.3	183184	1.3	100	
Mg	24	2	He	16.534	2.9	14988	2.3	100	
K	39	2	He	4.179	44.3	98835	0.8	100	
Mn	55	2	He	0.254	4.7	2604	3.2	2.5	
Co	59	2	He	0.075	3.8	1513	3.3	2.5	
Ni	60	2	He	0.214	20.8	1087	13.6	2.5	
Cu	63	2	He	0.129	9.7	1847	5.3	1	
Zn	66	2	He	0.858	3.8	2564	2.5	2.5	
Al	27	2	He	3.346	6.6	3294	3.1	5	
B	11	1	No Gas	1.394	8.6	21228	1.7	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	2.814	4.5	116321	1.5	5	
Si	28	1	No Gas	4.852	9.7	447496	0.4	10	
Ag	107	1	No Gas	0.056	15.4	2180	11.6	2.5	
Cd	111	1	No Gas	0.054	14.1	317	13.8	1	
Sr	88	1	No Gas	0.332	3.8	21955	3.5	2.5	
Mo	95	1	No Gas	0.071	18.3	970	14.9	2.5	
Sn	118	1	No Gas	0.132	16.2	8483	5.0	5	
Sb	121	1	No Gas	0.078	14.3	2590	11.7	2.5	
Ba	137	1	No Gas	0.306	10.8	3771	8.5	2.5	
Tl	205	1	No Gas	0.051	5.7	5875	3.1	1	
Tl	203	1	No Gas	0.055	9.0	2490	4.6	1	
Pb	208	1	No Gas	0.061	6.2	10709	2.9	2.5	
U	238	1	No Gas	0.049	7.4	8196	4.7	2.5	
Ca	43	2	He	37.637	61.1	163	44.3	100	
Sb	121	2	He	0.072	2.2	1140	1.5	2.5	
Ti	47	2	He	0.098	18.7	37	15.7	2.5	
Se	82	1	No Gas	-0.135	-119.9	397	13.9	1	
Zr	90	1	No Gas	0.140	12.9	6665	9.9	2.5	
Zr	90	2	He	0.125	7.9	3404	3.0	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1240530	0.37	1311506	94.59	70	120	
Ge	72	2	He	1006196	1.20	1024231	98.24	70	120	
Ge	72	1	No Gas	3511854	0.77	3625271	96.87	70	120	
In	115	1	No Gas	4755517	0.23	4826624	98.53	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	4983861	0.91	5040996	98.87	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	027ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:31:37-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.402	16.7	73158	2.5	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.040	24.2	310	13.8	0	ICSA Main CR1 Failed
V	51	2	He	0.108	12.3	6981	1.1	0	ICSA Main CR1 Failed
Cr	52	2	He	0.887	5.2	15866	2.1	0	ICSA Main CR1 Failed
Fe	56	2	He	104065.120	1.0	887599560	0.8	0	
Se	78	2	He	0.045	259.2	152	10.4	0	ICSA Main CR1 Failed
As	75	2	He	0.466	7.2	886	4.8	0	ICSA Main CR1 Failed
Ca	44	2	He	103526.129	1.5	5363905	1.3	0	
Na	23	2	He	104988.990	1.0	137562371	0.8	0	
Mg	24	2	He	104432.673	1.9	84640867	1.7	0	
K	39	2	He	104873.469	1.7	104026042	1.5	0	
Mn	55	2	He	1.903	2.2	13957	2.2	0	ICSA Main CR1 Failed
Co	59	2	He	1.053	2.0	14745	2.4	0	ICSA Main CR1 Failed
Ni	60	2	He	1.173	3.6	4394	3.0	0	ICSA Main CR1 Failed
Cu	63	2	He	0.745	3.0	7475	2.9	0	ICSA Main CR1 Failed
Zn	66	2	He	3.199	4.7	6458	3.5	0	ICSA Main CR1 Failed
Al	27	2	He	107490.812	2.0	56576767	1.9	0	
B	11	1	No Gas	2.226	5.9	22126	0.6	0	
Al	27	1	No Gas	99157.656	2.8	1956115918	1.4	0	
Si	28	1	No Gas	31.187	3.7	690922	3.0	0	
Ag	107	1	No Gas	0.037	8.5	1490	4.0	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.767	8.7	4062	9.9	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.951	1.5	53034	0.2	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2052.198	2.3	20893881	0.8	0	
Sn	118	1	No Gas	0.214	15.6	9240	5.2	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.104	14.9	3070	10.7	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.466	3.1	4904	2.5	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.017	24.4	3194	9.1	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.023	4.9	1420	0.7	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.922	1.6	84008	0.2	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.020	6.7	4594	2.6	0	ICSA Main CR1 Failed
Ca	43	2	He	101572.100	1.7	306977	1.4	0	
Sb	121	2	He	0.091	22.4	1313	16.6	0	ICSA Main CR1 Failed
Ti	47	2	He	2098.088	1.3	624667	1.1	0	
Se	82	1	No Gas	0.192	51.6	483	5.2	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1176516	1.47	1311506	89.71	70	120	
Ge	72	2	He	975218	0.45	1024231	95.21	70	120	
Ge	72	1	No Gas	3346497	1.41	3625271	92.31	70	120	
In	115	1	No Gas	4354521	1.63	4826624	90.22	70	120	
Bi	209	1	No Gas	4453690	1.29	5040996	88.35	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	028ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:34:07-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	100.769	2.436	1853517	1.25	100	100.8	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	94.717	3.401	416224	2.31	100	94.7	80	120	
V	51	2	He	106.085	3.356	842507	1.92	100	106.1	80	120	
Cr	52	2	He	105.779	3.691	948915	2.30	100	105.8	80	120	
Fe	56	2	He	113019.480	3.191	984034252	1.76	100	113019.5	80	120	
Se	78	2	He	109.393	3.572	14962	2.24	100	109.4	80	120	
As	75	2	He	109.267	2.246	149541	0.79	100	109.3	80	120	
Ca	44	2	He	112979.751	2.893	5975697	1.47	100	112979.8	80	120	
Na	23	2	He	115465.714	3.136	154430901	1.79	100	115465.7	80	120	
Mg	24	2	He	113598.350	3.360	93984719	1.95	100	113598.3	80	120	
K	39	2	He	114484.776	2.867	115918375	1.41	100	114484.8	80	120	
Mn	55	2	He	105.914	3.648	750712	2.27	100	105.9	80	120	
Co	59	2	He	104.674	3.523	1450416	2.11	100	104.7	80	120	
Ni	60	2	He	102.423	3.723	364097	2.36	100	102.4	80	120	
Cu	63	2	He	101.031	2.656	951520	1.24	100	101.0	80	120	
Zn	66	2	He	105.865	1.906	184523	0.72	100	105.9	80	120	
Al	27	2	He	105915.734	3.164	56908519	1.77	100	105915.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	511.520	2.427	1269901	1.29	100	511.5	80	120	
Al	27	1	No Gas	97956.378	1.878	1988718157	1.32	100	97956.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	548.728	1.350	6056455	0.76	100	548.7	80	120	
Ag	107	1	No Gas	101.051	2.852	2797575	2.06	100	101.1	80	120	
Cd	111	1	No Gas	102.650	2.680	563220	1.81	100	102.6	80	120	
Sr	88	1	No Gas	106.801	2.337	5894592	1.52	100	106.8	80	120	
Mo	95	1	No Gas	2124.316	2.788	22429511	1.94	100	2124.3	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	104.020	2.333	1939952	1.47	100	104.0	80	120	
Sb	121	1	No Gas	103.787	2.104	2568058	1.54	100	103.8	80	120	
Ba	137	1	No Gas	103.756	2.129	976293	1.52	100	103.8	80	120	
Tl	205	1	No Gas	93.558	2.054	5862032	1.94	100	93.6	80	120	
Tl	203	1	No Gas	93.195	2.174	2400291	1.98	100	93.2	80	120	
Pb	208	1	No Gas	106.785	1.811	9500810	1.71	100	106.8	80	120	
U	238	1	No Gas	107.975	1.531	10492153	1.36	100	108.0	80	120	
Ca	43	2	He	109610.718	2.886	338178	1.49	100	109610.7	80	120	
Sb	121	2	He	104.464	4.158	1167849	2.94	100	104.5	80	120	
Ti	47	2	He	2170.275	3.062	659619	1.61	100	2170.3	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	99.202	1.725	1920038	1.17	100	99.2	80	120	
Se	82	1	No Gas	108.277	2.461	36513	1.87	100	108.3	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1200658	1.09	1311506	91.55	70	120	
Ge	72	2	He	995805	1.48	1024231	97.22	70	120	
Ge	72	1	No Gas	3443358	0.56	3625271	94.98	70	120	
In	115	1	No Gas	4515532	0.91	4826624	93.55	70	120	
Bi	209	1	No Gas	4582613	0.39	5040996	90.91	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	033_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:52:37-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.726	2.870	1663970	2.86	100	96.7	90	110	
Be	9	1	No Gas	97.928	2.434	401883	2.51	100	97.9	90	110	
V	51	2	He	98.999	1.916	775883	2.06	100	99.0	90	110	
Cr	52	2	He	99.945	1.702	884798	2.05	100	99.9	90	110	
Fe	56	2	He	9923.979	1.472	85234640	1.54	10000	99.2	90	110	
Se	78	2	He	100.015	2.490	13503	2.16	100	100.0	90	110	
As	75	2	He	99.217	1.186	133935	1.17	100	99.2	90	110	
Ca	44	2	He	9716.968	1.485	507644	1.62	10000	97.2	90	110	
Na	23	2	He	9729.978	1.953	12918961	2.02	10000	97.3	90	110	
Mg	24	2	He	9784.549	1.429	7985408	1.63	10000	97.8	90	110	
K	39	2	He	9800.020	1.498	9871014	1.78	10000	98.0	90	110	
Mn	55	2	He	99.572	1.342	696153	1.40	100	99.6	90	110	
Co	59	2	He	100.578	2.109	1374603	2.12	100	100.6	90	110	
Ni	60	2	He	100.144	1.464	351128	1.45	100	100.1	90	110	
Cu	63	2	He	100.404	2.290	932584	2.16	100	100.4	90	110	
Zn	66	2	He	100.642	2.867	173040	2.81	100	100.6	90	110	
Al	27	2	He	99.470	1.525	54151	1.29	100	99.5	90	110	
B	11	1	No Gas	482.612	1.755	1119759	1.84	500	96.5	90	110	
Al	27	1	No Gas	97.131	3.383	1995640	2.57	100	97.1	90	110	
Si	28	1	No Gas	477.567	3.727	5234200	2.74	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.902	2.840	2820332	2.55	100	99.9	90	110	
Cd	111	1	No Gas	97.830	2.953	547369	2.71	100	97.8	90	110	
Sr	88	1	No Gas	97.380	2.598	5480784	2.32	100	97.4	90	110	
Mo	95	1	No Gas	96.338	3.660	1037369	3.27	100	96.3	90	110	
Sn	118	1	No Gas	99.055	2.263	1884031	1.91	100	99.1	90	110	
Sb	121	1	No Gas	100.677	3.173	2450413	2.45	100	100.7	90	110	
Ba	137	1	No Gas	97.217	2.728	932797	2.35	100	97.2	90	110	
Tl	205	1	No Gas	101.506	2.816	6721182	2.40	100	101.5	90	110	
Tl	203	1	No Gas	100.915	3.127	2746732	2.71	100	100.9	90	110	
Pb	208	1	No Gas	98.773	2.421	9287785	2.02	100	98.8	90	110	
U	238	1	No Gas	96.435	2.148	9903843	1.75	100	96.4	90	110	
Ca	43	2	He	10104.404	5.433	30784	5.22	10000	101.0	90	110	
Sb	121	2	He	98.690	2.313	1088253	2.41	100	98.7	90	110	
Ti	47	2	He	98.974	1.081	29675	1.41	100	99.0	90	110	
Cu	63	1	No Gas	99.561	2.826	1895488	2.16	100	99.6	90	110	
Se	82	1	No Gas	96.843	1.521	32172	1.13	100	96.8	90	110	
Zr	90	1	No Gas	83.327	3.431	2981302	3.11	100	83.3	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	84.218	1.715	1175805	1.86	100	84.2	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1121003	0.17	1311506	85.47	70	120	
Ge	72	2	He	981848	0.63	1024231	95.86	70	120	
Ge	72	1	No Gas	3387313	0.73	3625271	93.44	70	120	
In	115	1	No Gas	4604167	0.52	4826624	95.39	70	120	
Bi	209	1	No Gas	4843283	0.42	5040996	96.08	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	034_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:55:01-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.019	155.0	67482	0.5	0.5	
Be	9	1	No Gas	0.035	28.1	292	15.0	0.5	
V	51	2	He	-0.493	-2.4	2400	4.2	2.5	
Cr	52	2	He	0.132	60.3	9510	7.7	2.5	
Fe	56	2	He	4.838	11.2	57566	7.9	100	
Se	78	2	He	0.029	158.3	153	4.0	2	
As	75	2	He	0.035	23.8	317	3.8	2.5	
Ca	44	2	He	19.084	12.1	1853	6.9	100	
Na	23	2	He	9.514	11.8	106153	1.4	100	
Mg	24	2	He	0.947	20.0	1940	7.9	100	
K	39	2	He	6.896	4.3	100849	0.5	100	
Mn	55	2	He	0.571	0.9	4834	0.7	2.5	
Co	59	2	He	0.021	45.7	750	17.6	2.5	
Ni	60	2	He	0.518	15.3	2164	13.3	2.5	
Cu	63	2	He	0.148	3.4	2014	2.7	2	
Zn	66	2	He	3.089	4.2	6422	3.1	2.5	CCB Main CR1 Failed
Al	27	2	He	5.124	5.4	4227	3.4	5	CCB Main CR1 Failed
B	11	1	No Gas	1.611	38.1	20959	7.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	4.772	2.1	156667	1.3	5	
Si	28	1	No Gas	-1.933	-7.9	375523	0.4	10	
Ag	107	1	No Gas	0.485	20.1	14558	19.7	2.5	
Cd	111	1	No Gas	0.001	741.3	5	435.9	1	
Sr	88	1	No Gas	0.000	-946.6	2630	7.3	2.5	
Mo	95	1	No Gas	0.120	17.9	1500	15.6	2.5	
Sn	118	1	No Gas	0.201	11.7	9744	4.3	5	
Sb	121	1	No Gas	0.194	5.4	5488	4.8	2.5	
Ba	137	1	No Gas	0.012	56.8	847	7.9	2.5	
Tl	205	1	No Gas	0.053	40.7	5992	25.5	1	
Tl	203	1	No Gas	0.052	37.2	2404	23.4	1	
Pb	208	1	No Gas	0.022	10.3	6914	4.0	2.5	
U	238	1	No Gas	0.009	38.2	3944	8.1	2.5	
Ca	43	2	He	23.033	66.2	117	40.5	100	
Sb	121	2	He	0.179	3.6	2337	3.5	2.5	
Ti	47	2	He	0.077	127.7	30	100.0	2.5	
Cu	63	1	No Gas	0.137	14.3	5188	7.4	2.5	
Se	82	1	No Gas	-0.320	-50.9	333	16.5	2	
Zr	90	1	No Gas	0.089	12.6	4731	8.4	2.5	
Zr	90	2	He	0.066	5.3	2554	1.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1193841	0.29	1311506	91.03	70	120	
Ge	72	2	He	998489	0.38	1024231	97.49	70	120	
Ge	72	1	No Gas	3507060	0.11	3625271	96.74	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4705548	0.37	4826624	97.49	70	120	
Bi	209	1	No Gas	4980439	1.04	5040996	98.80	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:15:58-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 213798
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	3.192	15.958	3.00	135255	0.00	2000	
Be	9	1	No Gas	0.004	0.021	48.60	172	0.00	2000	
V	51	2	He	0.152	0.759	9.35	7409	0.00	2000	
Cr	52	2	He	-0.144	-0.721	-24.68	6965	0.00	2000	
Fe	56	2	He	47.713	238.564	2.03	426857	0.01	200000	
Se	78	2	He	0.172	0.858	61.67	171	0.10	2000	
As	75	2	He	0.106	0.529	41.73	409	0.03	2000	
Ca	44	2	He	3426.752	17133.760	1.53	180434	1.90	200000	
Na	23	2	He	39831.359	199156.797	1.71	52857528	0.08	200000	
Mg	24	2	He	1892.473	9462.366	1.46	1552923	0.12	200000	
K	39	2	He	243.842	1219.212	3.11	337220	0.07	200000	
Mn	55	2	He	59.724	298.622	4.95	419874	0.01	2000	
Co	59	2	He	0.281	1.407	11.38	4318	0.01	2000	
Ni	60	2	He	0.490	2.451	7.59	2040	0.02	2000	
Cu	63	2	He	0.140	0.701	5.97	1917	0.01	2000	
Zn	66	2	He	0.801	4.005	7.70	2417	0.03	2000	
Al	27	2	He	0.698	3.492	46.78	1820	0.04	2000	
B	11	1	No Gas	0.338	1.691	18.45	19570	0.00	2000	
Al	27	1	No Gas	0.406	2.031	41.33	66028	0.00	2000	
Si	28	1	No Gas	5116.943	25584.714	2.49	53933068	0.01	2000	>LDR
Ag	107	1	No Gas	0.091	0.453	34.15	3034	0.00	2000	
Cd	111	1	No Gas	0.022	0.112	58.23	125	0.02	2000	
Sr	88	1	No Gas	53.301	266.504	2.52	2939345	0.00	2000	
Mo	95	1	No Gas	0.047	0.233	12.50	660	0.01	2000	
Sn	118	1	No Gas	-0.098	-0.489	-7.44	3784	0.00	2000	
Sb	121	1	No Gas	0.041	0.205	24.20	1633	0.00	2000	
Ba	137	1	No Gas	41.913	209.567	2.31	394298	0.01	2000	
Tl	205	1	No Gas	0.000	0.000	-16759.67	2210	0.00	2000	
Tl	203	1	No Gas	0.005	0.023	76.92	1000	0.00	2000	
Pb	208	1	No Gas	0.133	0.663	1.25	16321	0.00	2000	
U	238	1	No Gas	0.122	0.612	3.52	14729	0.00	2000	
Ca	43	2	He	3421.550	17107.751	5.65	10504	32.57	200000	
Sb	121	2	He	0.037	0.183	13.46	727	0.01	2000	
Ti	47	2	He	0.277	1.386	42.58	90	0.31	2000	
Cu	63	1	No Gas	0.511	2.553	6.13	12479	0.00	2000	
Ca	44	1	No Gas	3375.444	16877.220	2.57	2678437	0.13	200000	
Zn	66	1	No Gas	0.953	4.765	9.97	7352	0.01	2000	
Se	82	1	No Gas	-0.118	-0.592	-269.93	400	-0.03	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1308436	0.37	1311506	99.77	70	120	
Ge	72	2	He	986673	0.49	1024231	96.33	70	120	
Ge	72	1	No Gas	3488473	1.30	3625271	96.23	70	120	

Sample Report

In	115	1	No Gas	4509714	0.81	4826624	93.43	70	120	
Bi	209	1	No Gas	4605533	0.82	5040996	91.36	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:18:22-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	15.975	15.975	1.28	399778	0.00	2000	
Be	9	1	No Gas	103.992	103.992	1.67	521055	0.02	2000	
V	51	2	He	108.074	108.074	1.24	791272	0.01	2000	
Cr	52	2	He	108.451	108.451	1.57	896865	0.01	2000	
Fe	56	2	He	11192.131	11192.131	1.04	89861892	0.01	200000	
Se	78	2	He	115.767	115.767	1.85	14591	0.79	2000	
As	75	2	He	116.198	116.198	1.23	146598	0.08	2000	
Ca	44	2	He	29136.952	29136.952	1.98	1421529	2.05	200000	
Na	23	2	He	214109.052	214109.052	1.50	263954589	0.08	200000	>LDR
Mg	24	2	He	21264.701	21264.701	1.53	16222373	0.13	200000	
K	39	2	He	13150.260	13150.260	1.68	12352814	0.11	200000	
Mn	55	2	He	412.045	412.045	2.08	2691007	0.02	2000	
Co	59	2	He	110.313	110.313	1.08	1409374	0.01	2000	
Ni	60	2	He	108.647	108.647	0.81	356097	0.03	2000	
Cu	63	2	He	108.068	108.068	1.07	938360	0.01	2000	
Zn	66	2	He	118.677	118.677	1.55	190587	0.06	2000	
Al	27	2	He	117.288	117.288	1.60	59452	0.20	2000	
B	11	1	No Gas	8.452	8.452	1.82	43127	0.02	2000	
Al	27	1	No Gas	116.684	116.684	1.14	2347502	0.00	2000	
Si	28	1	No Gas	27109.486	27109.486	0.77	271316283	0.01	2000	>LDR
Ag	107	1	No Gas	108.214	108.214	5.38	2788493	0.00	2000	
Cd	111	1	No Gas	107.440	107.440	1.74	549019	0.02	2000	
Sr	88	1	No Gas	268.263	268.263	0.76	13783683	0.00	2000	
Mo	95	1	No Gas	82.876	82.876	2.62	814722	0.01	2000	
Sn	118	1	No Gas	-0.258	-0.258	-3.61	747	-0.03	2000	
Sb	121	1	No Gas	98.303	98.303	0.56	2353635	0.00	2000	
Ba	137	1	No Gas	319.515	319.515	1.40	2798467	0.01	2000	
Tl	205	1	No Gas	86.831	86.831	2.11	6312512	0.00	2000	
Tl	203	1	No Gas	86.154	86.154	2.67	2574218	0.00	2000	
Pb	208	1	No Gas	81.430	81.430	1.80	8409465	0.00	2000	
U	238	1	No Gas	0.487	0.487	0.47	58090	0.00	2000	
Ca	43	2	He	29090.614	29090.614	2.72	82789	35.14	200000	
Sb	121	2	He	100.741	100.741	1.06	1038428	0.01	2000	
Ti	47	2	He	114.127	114.127	2.53	31990	0.36	2000	
Cu	63	1	No Gas	111.695	111.695	0.68	2091617	0.01	2000	
Ca	44	1	No Gas	27853.963	27853.963	0.77	20853393	0.13	200000	
Zn	66	1	No Gas	115.229	115.229	1.65	558231	0.02	2000	
Se	82	1	No Gas	108.551	108.551	2.99	35427	0.31	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1368566	1.28	1311506	104.35	70	120	
Ge	72	2	He	917824	0.88	1024231	89.61	70	120	
Ge	72	1	No Gas	3331451	2.34	3625271	91.90	70	120	
In	115	1	No Gas	4203975	1.85	4826624	87.10	70	120	
Bi	209	1	No Gas	5318721	3.61	5040996	105.51	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	043SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:20:49-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	16.126	16.126	2.20	397833	0.00	2000	
Be	9	1	No Gas	102.134	102.134	1.33	505373	0.02	2000	
V	51	2	He	105.780	105.780	2.96	766091	0.01	2000	
Cr	52	2	He	106.488	106.488	2.95	871070	0.01	2000	
Fe	56	2	He	10967.891	10967.891	2.16	87100595	0.01	200000	
Se	78	2	He	113.730	113.730	2.44	14180	0.80	2000	
As	75	2	He	115.167	115.167	2.32	143708	0.08	2000	
Ca	44	2	He	29188.204	29188.204	2.69	1408358	2.07	200000	
Na	23	2	He	215886.018	215886.018	2.69	263226463	0.08	200000	>LDR
Mg	24	2	He	21195.656	21195.656	2.75	15992016	0.13	200000	
K	39	2	He	12938.482	12938.482	2.82	12021195	0.11	200000	
Mn	55	2	He	414.661	414.661	4.42	2677447	0.02	2000	
Co	59	2	He	107.662	107.662	2.31	1360564	0.01	2000	
Ni	60	2	He	106.594	106.594	2.21	345561	0.03	2000	
Cu	63	2	He	107.096	107.096	1.80	919817	0.01	2000	
Zn	66	2	He	117.456	117.456	3.16	186537	0.06	2000	
Al	27	2	He	114.339	114.339	4.44	57337	0.20	2000	
B	11	1	No Gas	8.748	8.748	1.77	43409	0.02	2000	
Al	27	1	No Gas	119.609	119.609	2.52	2282262	0.01	2000	
Si	28	1	No Gas	27876.504	27876.504	1.83	264748023	0.01	2000	>LDR
Ag	107	1	No Gas	111.020	111.020	5.25	2670786	0.00	2000	
Cd	111	1	No Gas	107.811	107.811	2.37	513961	0.02	2000	
Sr	88	1	No Gas	278.652	278.652	1.94	13358818	0.00	2000	
Mo	95	1	No Gas	85.389	85.389	1.00	783646	0.01	2000	
Sn	118	1	No Gas	-0.255	-0.255	-3.69	757	-0.03	2000	
Sb	121	1	No Gas	97.048	97.048	0.90	2205143	0.00	2000	
Ba	137	1	No Gas	323.061	323.061	2.29	2639729	0.01	2000	
Tl	205	1	No Gas	82.660	82.660	1.63	5801931	0.00	2000	
Tl	203	1	No Gas	82.045	82.045	1.67	2367247	0.00	2000	
Pb	208	1	No Gas	77.638	77.638	1.69	7739206	0.00	2000	
U	238	1	No Gas	0.478	0.478	1.55	55170	0.00	2000	
Ca	43	2	He	28982.165	28982.165	3.07	81558	35.54	200000	
Sb	121	2	He	100.350	100.350	2.52	1023140	0.01	2000	
Ti	47	2	He	112.928	112.928	2.08	31306	0.36	2000	
Cu	63	1	No Gas	111.980	111.980	0.94	1989913	0.01	2000	
Ca	44	1	No Gas	28352.300	28352.300	1.13	20142028	0.14	200000	
Zn	66	1	No Gas	114.609	114.609	1.47	526811	0.02	2000	
Se	82	1	No Gas	109.002	109.002	1.34	33752	0.32	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1351698	0.44	1311506	103.06	70	120	
Ge	72	2	He	908181	2.73	1024231	88.67	70	120	
Ge	72	1	No Gas	3161782	0.38	3625271	87.22	70	120	
In	115	1	No Gas	3923441	1.38	4826624	81.29	70	120	
Bi	209	1	No Gas	5133825	1.47	5040996	101.84	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	044SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:23:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	16.403	16.403	3.12	404203	0.00	2000	
Be	9	1	No Gas	102.913	102.913	3.14	510232	0.02	2000	
V	51	2	He	103.206	103.206	2.11	750261	0.01	2000	
Cr	52	2	He	104.473	104.473	1.72	857794	0.01	2000	
Fe	56	2	He	10771.334	10771.334	1.67	85840089	0.01	200000	
Se	78	2	He	113.924	113.924	1.71	14253	0.80	2000	
As	75	2	He	112.735	112.735	2.16	141174	0.08	2000	
Ca	44	2	He	28656.868	28656.868	1.71	1387655	2.07	200000	
Na	23	2	He	212071.389	212071.389	2.11	259492143	0.08	200000	>LDR
Mg	24	2	He	20697.084	20697.084	1.85	15671514	0.13	200000	
K	39	2	He	12662.452	12662.452	1.48	11809089	0.11	200000	
Mn	55	2	He	403.051	403.051	1.76	2612515	0.02	2000	
Co	59	2	He	105.522	105.522	1.76	1338156	0.01	2000	
Ni	60	2	He	104.892	104.892	1.02	341243	0.03	2000	
Cu	63	2	He	104.320	104.320	1.13	899076	0.01	2000	
Zn	66	2	He	115.874	115.874	2.47	184720	0.06	2000	
Al	27	2	He	112.946	112.946	1.26	56875	0.20	2000	
B	11	1	No Gas	8.577	8.577	4.74	43025	0.02	2000	
Al	27	1	No Gas	118.919	118.919	2.32	2236397	0.01	2000	
Si	28	1	No Gas	28693.372	28693.372	2.37	268574523	0.01	2000	>LDR
Ag	107	1	No Gas	108.164	108.164	2.97	2573963	0.00	2000	
Cd	111	1	No Gas	107.454	107.454	2.13	506808	0.02	2000	
Sr	88	1	No Gas	279.508	279.508	1.65	13256844	0.00	2000	
Mo	95	1	No Gas	84.743	84.743	1.45	769312	0.01	2000	
Sn	118	1	No Gas	-0.260	-0.260	-1.22	660	-0.04	2000	
Sb	121	1	No Gas	97.097	97.097	2.57	2174395	0.00	2000	
Ba	137	1	No Gas	326.053	326.053	1.38	2635840	0.01	2000	
Tl	205	1	No Gas	82.136	82.136	2.34	5730432	0.00	2000	
Tl	203	1	No Gas	82.147	82.147	3.29	2355478	0.00	2000	
Pb	208	1	No Gas	77.336	77.336	2.20	7662924	0.00	2000	
U	238	1	No Gas	0.475	0.475	4.33	54393	0.00	2000	
Ca	43	2	He	28848.818	28848.818	2.11	81481	35.41	200000	
Sb	121	2	He	97.907	97.907	1.87	1001733	0.01	2000	
Ti	47	2	He	110.992	110.992	3.01	30878	0.36	2000	
Cu	63	1	No Gas	111.704	111.704	1.78	1956420	0.01	2000	
Ca	44	1	No Gas	28683.627	28683.627	2.31	20083049	0.14	200000	
Zn	66	1	No Gas	113.918	113.918	1.69	516144	0.02	2000	
Se	82	1	No Gas	108.049	108.049	4.55	32970	0.33	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1354736	1.56	1311506	103.30	70	120	
Ge	72	2	He	911032	0.50	1024231	88.95	70	120	
Ge	72	1	No Gas	3116664	1.45	3625271	85.97	70	120	
In	115	1	No Gas	3881112	0.74	4826624	80.41	70	120	
Bi	209	1	No Gas	5104647	3.15	5040996	101.26	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	046_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:33:12-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.283	1.798	1848806	3.32	100	96.3	90	110	
Be	9	1	No Gas	95.472	1.389	437237	2.90	100	95.5	90	110	
V	51	2	He	104.049	2.010	774203	1.77	100	104.0	90	110	
Cr	52	2	He	104.550	2.064	878698	1.81	100	104.6	90	110	
Fe	56	2	He	10275.487	1.600	83823912	1.58	10000	102.8	90	110	
Se	78	2	He	101.165	1.308	12973	1.75	100	101.2	90	110	
As	75	2	He	103.607	1.679	132827	1.33	100	103.6	90	110	
Ca	44	2	He	10246.287	2.043	508374	1.85	10000	102.5	90	110	
Na	23	2	He	10427.595	1.856	13143728	1.61	10000	104.3	90	110	
Mg	24	2	He	10465.224	2.129	8112032	2.06	10000	104.7	90	110	
K	39	2	He	10397.938	2.174	9941929	2.06	10000	104.0	90	110	
Mn	55	2	He	104.016	1.747	690678	1.47	100	104.0	90	110	
Co	59	2	He	103.596	1.894	1344782	1.88	100	103.6	90	110	
Ni	60	2	He	104.388	2.224	347646	2.46	100	104.4	90	110	
Cu	63	2	He	103.851	1.539	916185	1.47	100	103.9	90	110	
Zn	66	2	He	103.778	2.412	169443	2.16	100	103.8	90	110	
Al	27	2	He	104.669	2.305	54050	2.11	100	104.7	90	110	
B	11	1	No Gas	455.806	0.842	1181123	2.40	500	91.2	90	110	
Al	27	1	No Gas	104.583	2.291	2088441	2.34	100	104.6	90	110	
Si	28	1	No Gas	521.350	3.672	5531098	3.79	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.630	1.802	2708671	2.07	100	102.6	90	110	
Cd	111	1	No Gas	100.648	2.100	526480	2.51	100	100.6	90	110	
Sr	88	1	No Gas	102.342	2.048	5384774	2.21	100	102.3	90	110	
Mo	95	1	No Gas	100.486	2.609	1011663	3.05	100	100.5	90	110	
Sn	118	1	No Gas	101.137	1.271	1798277	1.64	100	101.1	90	110	
Sb	121	1	No Gas	99.171	1.862	2350759	2.17	100	99.2	90	110	
Ba	137	1	No Gas	100.189	1.862	898717	2.16	100	100.2	90	110	
Tl	205	1	No Gas	104.016	2.046	6329561	2.47	100	104.0	90	110	
Tl	203	1	No Gas	103.468	1.311	2588125	1.79	100	103.5	90	110	
Pb	208	1	No Gas	101.010	1.988	8728486	2.26	100	101.0	90	110	
U	238	1	No Gas	97.681	1.437	9218801	1.65	100	97.7	90	110	
Ca	43	2	He	10325.075	2.413	29879	2.35	10000	103.3	90	110	
Sb	121	2	He	100.991	1.795	1057726	1.82	100	101.0	90	110	
Ti	47	2	He	105.644	1.276	30086	1.86	100	105.6	90	110	
Cu	63	1	No Gas	102.933	1.408	1908352	1.50	100	102.9	90	110	
Se	82	1	No Gas	98.275	2.156	31788	2.66	100	98.3	90	110	
Zr	90	1	No Gas	87.929	2.314	2941106	2.54	100	87.9	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	86.847	2.053	1151565	1.85	100	86.8	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1250833	1.60	1311506	95.37	70	120	
Ge	72	2	He	932591	0.83	1024231	91.05	70	120	
Ge	72	1	No Gas	3298332	0.79	3625271	90.98	70	120	
In	115	1	No Gas	4304087	0.89	4826624	89.17	70	120	
Bi	209	1	No Gas	4450495	0.62	5040996	88.29	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	047_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:35:36-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.237	15.5	73855	0.9	0.5	
Be	9	1	No Gas	0.006	86.3	170	13.5	0.5	
V	51	2	He	0.176	5.3	7186	0.1	2.5	
Cr	52	2	He	0.112	34.9	8720	2.9	2.5	
Fe	56	2	He	4.274	2.2	49198	1.8	100	
Se	78	2	He	0.225	94.8	168	15.5	2	
As	75	2	He	0.084	22.5	358	6.0	2.5	
Ca	44	2	He	45.957	13.6	3064	10.3	100	
Na	23	2	He	33.742	1.3	129523	0.4	100	
Mg	24	2	He	1.830	3.9	2497	1.4	100	
K	39	2	He	9.415	14.9	96602	0.6	100	
Mn	55	2	He	0.179	3.3	1917	1.7	2.5	
Co	59	2	He	0.010	50.5	567	12.8	2.5	
Ni	60	2	He	0.155	18.9	813	11.7	2.5	
Cu	63	2	He	0.079	15.1	1273	7.6	2	
Zn	66	2	He	0.874	8.2	2404	5.5	2.5	
Al	27	2	He	2.554	21.8	2657	11.3	5	
B	11	1	No Gas	2.445	39.2	23807	10.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	2.530	11.6	103288	6.0	5	
Si	28	1	No Gas	6.578	3.5	435411	0.8	10	
Ag	107	1	No Gas	0.093	20.7	2964	16.7	2.5	
Cd	111	1	No Gas	0.002	228.9	11	190.0	1	
Sr	88	1	No Gas	0.109	6.0	8209	5.1	2.5	
Mo	95	1	No Gas	0.137	3.8	1553	3.9	2.5	
Sn	118	1	No Gas	0.113	20.9	7402	6.7	5	
Sb	121	1	No Gas	0.151	8.0	4144	7.4	2.5	
Ba	137	1	No Gas	0.233	6.9	2780	4.4	2.5	
Tl	205	1	No Gas	0.041	51.9	4754	28.4	1	
Tl	203	1	No Gas	0.045	45.9	2027	26.6	1	
Pb	208	1	No Gas	0.016	19.2	5811	4.5	2.5	
U	238	1	No Gas	0.003	42.8	3074	5.0	2.5	
Ca	43	2	He	63.773	14.2	227	11.1	100	
Sb	121	2	He	0.131	8.0	1670	5.7	2.5	
Ti	47	2	He	0.049	70.9	20	50.0	2.5	
Cu	63	1	No Gas	0.172	3.3	5505	2.4	2.5	
Se	82	1	No Gas	0.041	280.5	427	8.2	2	
Zr	90	1	No Gas	0.108	20.0	4988	15.3	2.5	
Zr	90	2	He	0.078	16.2	2540	5.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1236150	0.39	1311506	94.25	70	120	
Ge	72	2	He	932872	0.81	1024231	91.08	70	120	
Ge	72	1	No Gas	3283397	0.55	3625271	90.57	70	120	

Continuing Calibration Blank (CCB) Report

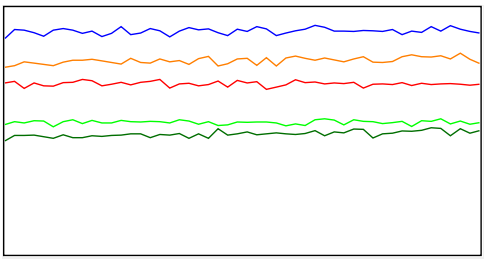
In	115	1	No Gas	4335697	0.93	4826624	89.83	70	120	
Bi	209	1	No Gas	4554468	0.53	5040996	90.35	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq. Date-Time	6/26/2024 9:44:19 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	6914	69141.63		
24	50000	26745	267454.27		
59	50000	45257	452570.16		
115	100000	78557	785565.27		
208	100000	48777	487773.85		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	1.335	5.000	
24	1.476	5.000	
59	1.329	5.000	
115	1.690	5.000	
208	2.491	5.000	

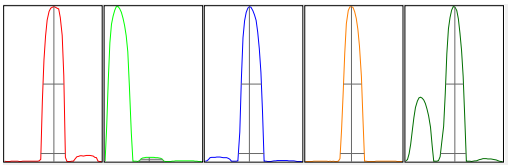
Mass	Background	Background (Required)	Background (Flag)
9	2.200		
24	1.700		
59	1.300		
115	1.400		
208	3.400		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.109 %
Doubly Charged	70 / 140 0.890 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7001.27	9.05	8.90 - 9.10	
24	27121.43	23.90	23.90 - 24.10	
59	45960.25	58.90	58.90 - 59.10	
115	79360.88	114.95	114.90 - 115.10	
208	47685.70	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.743		
24	0.66	0.766		
59	0.62	0.780		
115	0.55	0.732		
208	0.55	0.780		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

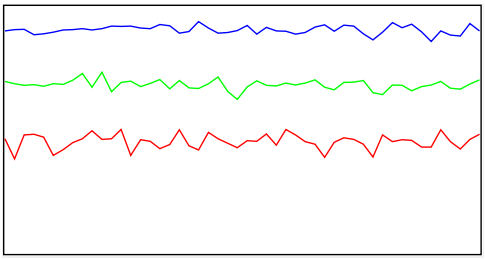
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	500	226	2262.38		
24	2000	1366	13661.16		
59	20000	18118	181179.61		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

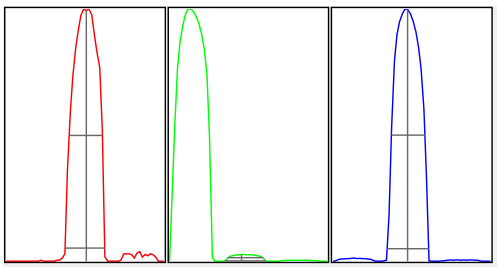
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	6.711	5.000	Fail
24	2.932	5.000	
59	1.861	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.600		
24	0.600		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.428 %
Doubly Charged	70 / 140 0.809 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	236.78	9.05	8.90 - 9.10	
24	1431.78	23.90	23.90 - 24.10	
59	18623.73	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.743		
24	0.66	0.766		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.780		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Prep Batch Report

Batch ID:	213798	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	19 Jun 2024 03:00 PM	**Original Factor:**	1
End Date:	19 Jun 2024 07:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060694-01	C	Water	<2	10	10	1	1	DOD
HS24060694-01MS	A		<2	10	10	1	1	
HS24060694-01MSD	A		<2	10	10	1	1	
HS24060694-01PDS	A		<2	10	10	1	1	
HS24060694-01SD	A		<2	10	10	1	1	
HS24060694-02	C	Water	<2	10	10	1	1	
HS24060694-03	C	Water	<2	10	10	1	1	
HS24060694-06	C	Water	<2	10	10	1	1	
HS24060694-08	C	Water	<2	10	10	1	1	
HS24060747-03	C	Groundwater	<2	10	10	1	1	
HS24060747-05	C	Groundwater	<2	10	10	1	1	
HS24060747-07	C	Groundwater	<2	10	10	1	1	
HS24060747-09	C	Groundwater	<2	10	10	1	1	
HS24060795-03	C	Water	<2	10	10	1	1	
HS24060795-04	C	Water	<2	10	10	1	1	
HS24060795-05	C	Water	<2	10	10	1	1	
HS24060795-07	C	Water	<2	10	10	1	1	
HS24060795-08	C	Water	<2	10	10	1	1	
HS24060795-09	C	Water	<2	10	10	1	1	
HS24060899-03	C	Water	<2	10	10	1	1	
HS24060899-05	C	Water	<2	10	10	1	1	
HS24060899-07	C	Water	<2	10	10	1	1	
LCS-213798	A			10	10	1	1	
MBLK-213798	A			10	10	1	1	

Prep Batch Report

Batch ID:	213798	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	19 Jun 2024 03:00 PM	**Original Factor:**	1
End Date:	19 Jun 2024 07:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB9
3010A	Thermometer ID	S06761
3010A	Thermometer Location	F6
3010A	Dig. Cup ID	3111202609
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202611
3010A	LCS/MS Volume, mL	0.05
3010A	HNO3 ID	3111-202514
3010A	HCl ID	3111-202416
3010A	Method for HS-MET002 SOP (3010A)	Method SW3010A
3010A	Dig. Start Temp (U)	95
3010A	Dig. Start Temp (C)	95
3010A	Dig. End Temp (U)	95
3010A	Dig. End Temp (C)	95
3010A	pH Paper:	3111201820
MET	Pipette #3	ICP#10(0.05ML)
MET	Pipette #1	MP#11(10ML)/ICP#13 (1ML)

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060694-01	C	Water		10	10	1	1	
HS24060694-02	C	Water		10	10	1	1	
HS24060694-02MS	A			10	10	1	1	
HS24060694-02MSD	A			10	10	1	1	
HS24060694-03	C	Water		10	10	1	1	
HS24060694-06	C	Water		10	10	1	1	
HS24060694-08	C	Water		10	10	1	1	
HS24060747-03	C	Groundwater		10	10	1	1	
HS24060747-05	C	Groundwater		10	10	1	1	
HS24060747-07	C	Groundwater		10	10	1	1	
HS24060747-09	C	Groundwater		10	10	1	1	
HS24060795-03	C	Water		10	10	1	1	
HS24060795-04	C	Water		10	10	1	1	
HS24060795-05	C	Water		10	10	1	1	
HS24060795-07	C	Water		10	10	1	1	
HS24060795-08	C	Water		10	10	1	1	
HS24060795-09	C	Water		10	10	1	1	
HS24060899-03	C	Water		10	10	1	1	
HS24060899-05	C	Water		10	10	1	1	
HS24060899-07	C	Water		10	10	1	1	
LCS-214008	A			10	10	1	1	
MBLK-214008	A			10	10	1	1	

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
200.8PR	Dig. End Temp, C (U)	94
HG	Sample Tube	3111202316
Hg_W	Method for SOP HS-MET004 (7470A / EPA 245.1)	7470A / EPA 245.1
Hg_W	Cal Std ID	CalStd ID -062424
Hg_W	Cal 0.0 vol, mL	0
Hg_W	Cal 0.2 vol, mL	0.10
Hg_W	Cal 0.5 vol, mL	0.25
Hg_W	Cal 2.0 vol, mL	1
Hg_W	Cal 5.0 vol, mL	2.5
Hg_W	Cal 10.0 vol, mL	5
Hg_W	ICV Std vol, mL	0.25
Hg_W	ICB Std vol, mL	0
Hg_W	CCV Std vol, mL	2.5
Hg_W	CCB Std vol, mL	0
Hg_W	Digestion Cup ID	3111202516
Hg_W	Filter ID	N/A
Hg_W	Hotblock ID	HB 1
Hg_W	Thermometer ID	W21857
Hg_W	Thermometer Position	A10
Hg_W	LCS/MS ID:	02- SPK- 062124
Hg_W	LCS Volume, mL	0.5
Hg_W	MS Volume, mL	0.5
Hg_W	H2SO4 ID	311120201819
Hg_W	K2S2O8 ID	PER - 7/3/23
Hg_W	HNO3 ID	3111202304
Hg_W	5% KMnO4 ID	KMNO - 7/3/23
Hg_W	NaCl/Hydroxylamine ID	HYDRO - 7/3/23
Hg_W	Dig. Start Time	13:30PM
Hg_W	Dig. Start Temp, C (U)	94
Hg_W	Dig. Start Temp, C (C)	94
Hg_W	0.5 mL H2SO4 (Time)	YES
Hg_W	0.25 mL HNO3 (Time)	YES
Hg_W	Dig. End Time	15:30PM
Hg_W	1.5 mL 5% KMnO4 (Time)	YES
Hg_W	Dig. End Temp, C (C)	94

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
Hg_W	0.6 mL NaCl/Hydrox. (Time)	YES
Hg_W	0.8 mL K2S2O8 (Time)	YES
Hg_W	0.5 mL 10% SnCl2 ID	SNCL - 5/16/24
Hg_W	ICCV Std vol, mL	2.5
Hg_W	CRA Std vol, mL	0.1
Hg_W	pH Paper:	30010709607
MET	Pipette #3	HG #12
MET	Pipette #1	ICP#12

HS24060795 ALS Middletown Sub Data Report 3366029_333305

ALS WO# HS24060795

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project HS24060795
Workorder 3366029
Report ID 333305 on 6/28/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

Project HS24060795
Workorder 3366029

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3366029001	HS24060795-02	Ground Water	06/12/2024 07:45	06/26/2024 09:36	CBC	Collected By Client
3366029002	HS24060795-03	Ground Water	06/12/2024 08:30	06/26/2024 09:36	CBC	Collected By Client
3366029003	HS24060795-04	Ground Water	06/12/2024 08:30	06/26/2024 09:36	CBC	Collected By Client
3366029004	HS24060795-05	Ground Water	06/12/2024 09:20	06/26/2024 09:36	CBC	Collected By Client
3366029005	HS24060795-06	Ground Water	06/12/2024 10:15	06/26/2024 09:36	CBC	Collected By Client
3366029006	HS24060795-07	Ground Water	06/12/2024 11:00	06/26/2024 09:36	CBC	Collected By Client
3366029007	HS24060795-08	Ground Water	06/12/2024 11:45	06/26/2024 09:36	CBC	Collected By Client
3366029008	HS24060795-09	Ground Water	06/12/2024 12:00	06/26/2024 09:36	CBC	Collected By Client
3366029009	HS24060795-10	Ground Water	06/12/2024 00:00	06/26/2024 09:36	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project HS24060795
Workorder 3366029

Project Notations

Sample Notations

Lab ID	Sample ID		
3366029007	HS24060795-08	**S1**	The 8260 analysis of this sample was initially run within holding time. Re-analysis due to suspected carry-over was conducted past the fourteen day sample holding time.
3366029008	HS24060795-09	**S2**	The 8260 analysis of this sample was initially run within holding time. Re-analysis due to suspected carry-over was conducted past the fourteen day sample holding time.

Result Notations

Notation Ref.	
1	The 8260 analysis of this sample was initially run within holding time. Re-analysis at a dilution for trichloroethene was conducted past the fourteen day sample holding time.
2	The dilution for trichloroethene was taken from a 40ml vial that contained headspace, which was introduced during the primary run.
3	The 8260 analysis of this sample was initially run within holding time. Re-analysis at a dilution for Trichloroethene was conducted past the fourteen day sample holding time.
4	The 8260 analysis of this sample was initially run within holding time. Re-analysis at a dilution for cis-1,2-dichloroethene was conducted past the fourteen day sample holding time.

Project HS24060795
Workorder 3366029

Detected Results Summary

Client Sample ID	HS24060795-02	Collected	06/12/2024 07:45
Lab Sample ID	3366029001	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	1.5	ug/L	1.0	0.75	0.33	SW846 8260D	#
Methylene Chloride	1.1	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	5.2	ug/L	1.0	0.75	0.33	SW846 8260D	#

Project HS24060795
Workorder 3366029

Detected Results Summary

Client Sample ID	HS24060795-03	Collected	06/12/2024 08:30
Lab Sample ID	3366029002	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,2-Dichloroethane	7.0	ug/L	1.0	0.75	0.33	SW846 8260D	#
Benzene	0.70J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloroform	2.7	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	5.7	ug/L	1.0	0.75	0.33	SW846 8260D	#
Tetrachloroethene	0.36J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	172	ug/L	5.0	3.8	1.7	SW846 8260D	#
Vinyl Chloride	0.39J	ug/L	1.0	0.75	0.33	SW846 8260D	#

Project HS24060795
Workorder 3366029

Detected Results Summary

Client Sample ID	HS24060795-04	Collected	06/12/2024 08:30
Lab Sample ID	3366029003	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,2-Dichloroethane	6.9	ug/L	1.0	0.75	0.33	SW846 8260D	#
Benzene	0.73J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloroform	2.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	5.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
Tetrachloroethene	0.45J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	334	ug/L	10.0	7.5	3.3	SW846 8260D	#
Vinyl Chloride	0.38J	ug/L	1.0	0.75	0.33	SW846 8260D	#

Project HS24060795
Workorder 3366029

Detected Results Summary

Client Sample ID	HS24060795-05	Collected	06/12/2024 09:20
Lab Sample ID	3366029004	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethane	1.7	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,3-Dichlorobenzene	0.68J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	5.9	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	14.3	ug/L	1.0	0.75	0.33	SW846 8260D	#
Vinyl Chloride	1.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

Project HS24060795
Workorder 3366029

Detected Results Summary

Client Sample ID	HS24060795-06	Collected	06/12/2024 10:15
Lab Sample ID	3366029005	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	777	ug/L	10.0	7.5	3.3	SW846 8260D	#
Tetrachloroethene	0.94J	ug/L	1.0	0.75	0.33	SW846 8260D	#
trans-1,2-Dichloroethene	4.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	1140	ug/L	10.0	7.5	3.3	SW846 8260D	#
Vinyl Chloride	3.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

Project HS24060795
Workorder 3366029

Detected Results Summary

Client Sample ID	HS24060795-07	Collected	06/12/2024 11:00
Lab Sample ID	3366029006	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1,2-Trichloroethane	17.2	ug/L	1.0	0.75	0.33	SW846 8260D	#
Benzene	1.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	4560	ug/L	100	75.0	33.0	SW846 8260D	#
Tetrachloroethene	2.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
trans-1,2-Dichloroethene	17.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	6280	ug/L	100	75.0	33.0	SW846 8260D	#
Vinyl Chloride	38.1	ug/L	1.0	0.75	0.33	SW846 8260D	#

Project HS24060795
Workorder 3366029

Detected Results Summary

Client Sample ID	HS24060795-08	Collected	06/12/2024 11:45
Lab Sample ID	3366029007	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
Acetone	17.2	ug/L	5.0	3.8	1.6	SW846 8260D	#
Trichloroethene	1.2	ug/L	1.0	0.75	0.33	SW846 8260D	#

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-02	Collected	06/12/2024 07:45
Lab Sample ID	3366029001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:52	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 21:52	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
cis-1,2-Dichloroethene	1.5		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 21:52	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Methylene Chloride	1.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 21:52	PDK	A

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-02	Collected	06/12/2024 07:45
Lab Sample ID	3366029001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Trichloroethene	5.2		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:52	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	81 – 118	06/26/2024 21:52	
4-Bromofluorobenzene	460-00-4	91%	85 – 114	06/26/2024 21:52	
Dibromofluoromethane	1868-53-7	95.2%	80 – 119	06/26/2024 21:52	
Toluene-d8	2037-26-5	98.5%	89 – 112	06/26/2024 21:52	

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-03	Collected	06/12/2024 08:30
Lab Sample ID	3366029002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2-Dichloroethane	7.0		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:12	PDK	A
Benzene	0.70J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 22:12	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Chloroform	2.7		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
cis-1,2-Dichloroethene	5.7		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 22:12	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 22:12	PDK	A

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-03	Collected	06/12/2024 08:30
Lab Sample ID	3366029002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Tetrachloroethene	0.36J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Trichloroethene	172	1,2	ug/L	5.0	3.8	1.7	SW846 8260D	5	06/27/2024 22:13	BST	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A
Vinyl Chloride	0.39J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:12	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 22:13	
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/26/2024 22:12	
4-Bromofluorobenzene	460-00-4	91.5%	85 – 114	06/27/2024 22:13	
4-Bromofluorobenzene	460-00-4	92.7%	85 – 114	06/26/2024 22:12	
Dibromofluoromethane	1868-53-7	96.5%	80 – 119	06/27/2024 22:13	
Dibromofluoromethane	1868-53-7	94.1%	80 – 119	06/26/2024 22:12	
Toluene-d8	2037-26-5	96.6%	89 – 112	06/27/2024 22:13	
Toluene-d8	2037-26-5	101%	89 – 112	06/26/2024 22:12	

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-04	Collected	06/12/2024 08:30
Lab Sample ID	3366029003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2-Dichloroethane	6.9		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:33	PDK	A
Benzene	0.73J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 22:33	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Chloroform	2.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
cis-1,2-Dichloroethene	5.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 22:33	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 22:33	PDK	A

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-04	Collected	06/12/2024 08:30
Lab Sample ID	3366029003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Tetrachloroethene	0.45J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Trichloroethene	334	3	ug/L	10.0	7.5	3.3	SW846 8260D	10	06/27/2024 17:49	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A
Vinyl Chloride	0.38J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:33	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/26/2024 22:33	
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 17:49	
4-Bromofluorobenzene	460-00-4	102%	85 – 114	06/26/2024 22:33	
4-Bromofluorobenzene	460-00-4	92.6%	85 – 114	06/27/2024 17:49	
Dibromofluoromethane	1868-53-7	94.3%	80 – 119	06/26/2024 22:33	
Dibromofluoromethane	1868-53-7	101%	80 – 119	06/27/2024 17:49	
Toluene-d8	2037-26-5	99%	89 – 112	06/26/2024 22:33	
Toluene-d8	2037-26-5	99.3%	89 – 112	06/27/2024 17:49	

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-05	Collected	06/12/2024 09:20
Lab Sample ID	3366029004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1-Dichloroethane	1.7		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,3-Dichlorobenzene	0.68J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 22:53	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 22:53	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
cis-1,2-Dichloroethene	5.9		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 22:53	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 22:53	PDK	A

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-05	Collected	06/12/2024 09:20
Lab Sample ID	3366029004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Trichloroethene	14.3		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A
Vinyl Chloride	1.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 22:53	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	106%	81 – 118	06/26/2024 22:53	
4-Bromofluorobenzene	460-00-4	106%	85 – 114	06/26/2024 22:53	
Dibromofluoromethane	1868-53-7	99.1%	80 – 119	06/26/2024 22:53	
Toluene-d8	2037-26-5	107%	89 – 112	06/26/2024 22:53	

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-06	Collected	06/12/2024 10:15
Lab Sample ID	3366029005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:13	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 23:13	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
cis-1,2-Dichloroethene	777	4	ug/L	10.0	7.5	3.3	SW846 8260D	10	06/27/2024 18:09	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 23:13	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 23:13	PDK	A

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-06	Collected	06/12/2024 10:15
Lab Sample ID	3366029005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Tetrachloroethene	0.94J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
trans-1,2-Dichloroethene	4.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Trichloroethene	1140	1	ug/L	10.0	7.5	3.3	SW846 8260D	10	06/27/2024 18:09	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A
Vinyl Chloride	3.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:13	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.7%	81 – 118	06/26/2024 23:13	
1,2-Dichloroethane-d4	17060-07-0	94.7%	81 – 118	06/27/2024 18:09	
4-Bromofluorobenzene	460-00-4	95.9%	85 – 114	06/26/2024 23:13	
4-Bromofluorobenzene	460-00-4	89.9%	85 – 114	06/27/2024 18:09	
Dibromofluoromethane	1868-53-7	92%	80 – 119	06/26/2024 23:13	
Dibromofluoromethane	1868-53-7	92.6%	80 – 119	06/27/2024 18:09	
Toluene-d8	2037-26-5	96.7%	89 – 112	06/26/2024 23:13	
Toluene-d8	2037-26-5	91.8%	89 – 112	06/27/2024 18:09	

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-07	Collected	06/12/2024 11:00
Lab Sample ID	3366029006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1,2-Trichloroethane	17.2		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 23:34	PDK	A
Benzene	1.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 23:34	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
cis-1,2-Dichloroethene	4560	4	ug/L	100	75.0	33.0	SW846 8260D	100	06/27/2024 18:48	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 23:34	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 23:34	PDK	A

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-07	Collected	06/12/2024 11:00
Lab Sample ID	3366029006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Tetrachloroethene	2.4		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
trans-1,2-Dichloroethene	17.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Trichloroethene	6280	1	ug/L	100	75.0	33.0	SW846 8260D	100	06/27/2024 18:48	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A
Vinyl Chloride	38.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 23:34	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	115%	81 – 118	06/26/2024 23:34	
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/27/2024 18:48	
4-Bromofluorobenzene	460-00-4	103%	85 – 114	06/26/2024 23:34	
4-Bromofluorobenzene	460-00-4	93.8%	85 – 114	06/27/2024 18:48	
Dibromofluoromethane	1868-53-7	100%	80 – 119	06/26/2024 23:34	
Dibromofluoromethane	1868-53-7	99.9%	80 – 119	06/27/2024 18:48	
Toluene-d8	2037-26-5	104%	89 – 112	06/26/2024 23:34	
Toluene-d8	2037-26-5	101%	89 – 112	06/27/2024 18:48	

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-08	Collected	06/12/2024 11:45
Lab Sample ID	3366029007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1,1-Trichloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1,2-Trichloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1-Dichloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1-Dichloroethene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,1-Dichloropropene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2,3-Trichloropropane	2.5U	U,S1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,S1	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2-Dibromoethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2-Dichlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2-Dichloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,2-Dichloropropane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,3-Dichlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,3-Dichloropropane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
1,4-Dichlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
2,2-Dichloropropane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
2-Butanone	3.8U	U,S1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
2-Hexanone	3.8U	U,S1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,S1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
Acetone	17.2	S1	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:10	ILY	A
Benzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Bromobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 13:10	ILY	A
Bromochloromethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Bromodichloromethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Bromoform	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Bromomethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Carbon Disulfide	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Carbon Tetrachloride	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Chlorobenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Chlorodibromomethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Chloroethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Chloroform	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Chloromethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
cis-1,2-Dichloroethene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
cis-1,3-Dichloropropene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Dibromomethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Dichlorodifluoromethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Ethylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Hexachlorobutadiene	3.8U	U,S1	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 13:10	ILY	A
Isopropylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Methylene Chloride	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
mp-Xylene	1.5U	U,S1	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 13:10	ILY	A

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-08	Collected	06/12/2024 11:45
Lab Sample ID	3366029007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
n-Butylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
n-Propylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
o-Chlorotoluene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
o-Xylene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
p-Chlorotoluene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
p-Isopropyltoluene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
sec-Butylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Styrene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
tert-Butylbenzene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Tetrachloroethene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Toluene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
trans-1,2-Dichloroethene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
trans-1,3-Dichloropropene	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Trichloroethene	1.2	S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Trichlorofluoromethane	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A
Vinyl Chloride	0.75U	U,S1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:10	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.4%	81 – 118	06/27/2024 13:10	
4-Bromofluorobenzene	460-00-4	97.2%	85 – 114	06/27/2024 13:10	
Dibromofluoromethane	1868-53-7	97.5%	80 – 119	06/27/2024 13:10	
Toluene-d8	2037-26-5	101%	89 – 112	06/27/2024 13:10	

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-09	Collected	06/12/2024 12:00
Lab Sample ID	3366029008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1,1-Trichloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1,2-Trichloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1-Dichloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1-Dichloroethene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,1-Dichloropropene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2,3-Trichlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2,3-Trichloropropane	2.5U	U,S2	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2,4-Trichlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2,4-Trimethylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U,S2	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2-Dibromoethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2-Dichlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2-Dichloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,2-Dichloropropane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,3,5-Trimethylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,3-Dichlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,3-Dichloropropane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
1,4-Dichlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
2,2-Dichloropropane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
2-Butanone	3.8U	U,S2	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
2-Hexanone	3.8U	U,S2	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U,S2	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
Acetone	3.8U	U,S2	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:30	ILY	A
Benzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Bromobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 13:30	ILY	A
Bromochloromethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Bromodichloromethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Bromoform	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Bromomethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Carbon Disulfide	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Carbon Tetrachloride	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Chlorobenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Chlorodibromomethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Chloroethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Chloroform	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Chloromethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
cis-1,2-Dichloroethene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
cis-1,3-Dichloropropene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Dibromomethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Dichlorodifluoromethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Ethylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Hexachlorobutadiene	3.8U	U,S2	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 13:30	ILY	A
Isopropylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Methylene Chloride	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
mp-Xylene	1.5U	U,S2	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 13:30	ILY	A

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-09	Collected	06/12/2024 12:00
Lab Sample ID	3366029008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
n-Butylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
n-Propylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
o-Chlorotoluene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
o-Xylene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
p-Chlorotoluene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
p-Isopropyltoluene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
sec-Butylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Styrene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
tert-Butylbenzene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Tetrachloroethene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Toluene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
trans-1,2-Dichloroethene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
trans-1,3-Dichloropropene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Trichloroethene	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Trichlorofluoromethane	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A
Vinyl Chloride	0.75U	U,S2	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:30	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 13:30	
4-Bromofluorobenzene	460-00-4	95.3%	85 – 114	06/27/2024 13:30	
Dibromofluoromethane	1868-53-7	101%	80 – 119	06/27/2024 13:30	
Toluene-d8	2037-26-5	102%	89 – 112	06/27/2024 13:30	

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-10	Collected	06/12/2024 00:00
Lab Sample ID	3366029009	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/26/2024 21:31	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/26/2024 21:31	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/26/2024 21:31	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/26/2024 21:31	PDK	A

Project HS24060795
Workorder 3366029

Results

Client Sample ID	HS24060795-10	Collected	06/12/2024 00:00
Lab Sample ID	3366029009	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/26/2024 21:31	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	103%	81 – 118	06/26/2024 21:31	
4-Bromofluorobenzene	460-00-4	95%	85 – 114	06/26/2024 21:31	
Dibromofluoromethane	1868-53-7	92.4%	80 – 119	06/26/2024 21:31	
Toluene-d8	2037-26-5	100%	89 – 112	06/26/2024 21:31	

Project HS24060795
Workorder 3366029

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3366029001	HS24060795-02	SW846 8260D	N/A	
3366029002	HS24060795-03	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366029003	HS24060795-04	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366029004	HS24060795-05	SW846 8260D	N/A	
3366029005	HS24060795-06	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366029006	HS24060795-07	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366029007	HS24060795-08	SW846 8260D	N/A	
3366029008	HS24060795-09	SW846 8260D	N/A	
3366029009	HS24060795-10	SW846 8260D	N/A	

Project HS24060795
Workorder 3366029

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1234508	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366029001	3366029009	3366029002	3366029003
3366029004	3366029005	3366029006	

Matrix Spike 3844909 (MS) 3366031001 (non-Project Sample) For QC Batch 1234508

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3844910 (MSD) 3366031001 (non-Project Sample) For QC Batch 1234508

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	20.10	0	20	100	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	19.10	0	20	95.6	78 - 124	RPD 4.80 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	23.70	0	20	118	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	22.30	0	20	111	74 - 131	RPD 6.14 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.70	0	20	118	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	22.90	0	20	115	71 - 121	RPD 3.18 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	22.10	0	20	111	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21.30	0	20	106	80 - 119	RPD 3.95 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	26.10	2.80	20	116	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	23.90	2.80	20	105	77 - 125	RPD 8.65 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	29.90	6.40	20	117	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	28.10	6.40	20	109	71 - 131	RPD 6.02 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.20	0	20	116	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.40	0	20	107	79 - 125	RPD 7.72 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	18.20	0	20	91	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	17.80	0	20	89.2	69 - 129	RPD 1.99 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.40	0	20	112	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	22	0	20	110	73 - 122	RPD 1.98 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	22.30	0	20	112	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.10	0	20	111	69 - 130	RPD 0.92 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.20	0	20	106	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	20.50	0	20	103	76 - 124	RPD 3.16 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	18	0	20	90.1	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	18	0	20	90.1	62 - 128	RPD 0.04 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	19.50	0	20	97.6	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	19.30	0	20	96.7	77 - 121	RPD 0.88 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	22.70	0	20	113	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	21.90	0	20	109	80 - 119	RPD 3.44 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	23.80	0	20	119	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	22	0	20	110	73 - 128	RPD 7.64 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	22.40	0	20	112	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.10	0	20	105	78 - 122	RPD 5.99 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	23.20	0	20	116	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	22.40	0	20	112	75 - 124	RPD 3.71 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.50	0	20	113	80 - 119		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,3-Dichlorobenzene	541-73-1	MSD	21.90	0	20	109	80 - 119	RPD 2.89 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	22.60	0	20	113	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	21.70	0	20	108	80 - 119	RPD 4.08 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	22.30	0	20	112	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	21.70	0	20	108	79 - 118	RPD 3.12 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	22.90	0	20	114	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	20.30	0	20	101	60 - 139	RPD 11.90 (Max-30)	
2-Butanone	78-93-3	MS	101	0	100	101	56 - 143		
2-Butanone	78-93-3	MSD	95	0	100	95	56 - 143	RPD 6.52 (Max-30)	
2-Hexanone	591-78-6	MS	101	0	100	101	57 - 139		
2-Hexanone	591-78-6	MSD	97.40	0	100	97.4	57 - 139	RPD 3.82 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	104	0	100	104	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	101	0	100	101	67 - 130	RPD 3.57 (Max-30)	
Acetone	67-64-1	MS	97.60	0	100	97.6	39 - 160		
Acetone	67-64-1	MSD	94.10	0	100	94.1	39 - 160	RPD 3.72 (Max-30)	
Benzene	71-43-2	MS	22.30	0.24	20	110	79 - 120		
Benzene	71-43-2	MSD	20.50	0.24	20	101	79 - 120	RPD 8.48 (Max-30)	
Bromobenzene	108-86-1	MS	22.20	0	20	111	80 - 120		
Bromobenzene	108-86-1	MSD	21.20	0	20	106	80 - 120	RPD 4.61 (Max-30)	
Bromochloromethane	74-97-5	MS	22.70	0	20	113	78 - 123		
Bromochloromethane	74-97-5	MSD	21.10	0	20	106	78 - 123	RPD 7.20 (Max-30)	
Bromodichloromethane	75-27-4	MS	20	0	20	100	79 - 125		
Bromodichloromethane	75-27-4	MSD	18.60	0	20	93	79 - 125	RPD 7.20 (Max-30)	
Bromoform	75-25-2	MS	17.60	0	20	87.9	66 - 130		
Bromoform	75-25-2	MSD	17.60	0	20	88	66 - 130	RPD 0.04 (Max-30)	
Bromomethane	74-83-9	MS	24.30	0	20	122	53 - 141		
Bromomethane	74-83-9	MSD	22.50	0	20	112	53 - 141	RPD 7.90 (Max-30)	
Carbon Disulfide	75-15-0	MS	22.30	0	20	111	64 - 133		
Carbon Disulfide	75-15-0	MSD	20.50	0	20	103	64 - 133	RPD 8.27 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	20.40	0	20	102	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	18.60	0	20	92.8	72 - 136	RPD 9.62 (Max-30)	
Chlorobenzene	108-90-7	MS	21.80	0	20	109	82 - 118		
Chlorobenzene	108-90-7	MSD	21.10	0	20	106	82 - 118	RPD 3.13 (Max-30)	
Chlorodibromomethane	124-48-1	MS	18.50	0	20	92.6	74 - 126		
Chlorodibromomethane	124-48-1	MSD	17.90	0	20	89.4	74 - 126	RPD 3.47 (Max-30)	
Chloroethane	75-00-3	MS	21.80	0	20	109	60 - 138		
Chloroethane	75-00-3	MSD	19.70	0	20	98.5	60 - 138	RPD 10.10 (Max-30)	
Chloroform	67-66-3	MS	22.60	0	20	113	79 - 124		
Chloroform	67-66-3	MSD	20.40	0	20	102	79 - 124	RPD 10.20 (Max-30)	
Chloromethane	74-87-3	MS	22.60	0	20	113	50 - 139		
Chloromethane	74-87-3	MSD	20.70	0	20	103	50 - 139	RPD 8.70 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	82.10	56.90	20	126*	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	76.20	56.90	20	96.3	78 - 123	RPD 7.51 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.30	0	20	96.6	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	18.20	0	20	91.1	75 - 124	RPD 5.85 (Max-30)	
Dibromomethane	74-95-3	MS	21.20	0	20	106	79 - 123		
Dibromomethane	74-95-3	MSD	20.50	0	20	102	79 - 123	RPD 3.61 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	21.70	0	20	109	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	19.50	0	20	97.6	32 - 152	RPD 10.80 (Max-30)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Ethylbenzene	100-41-4	MS	20.80	0	20	104	79 - 121		
Ethylbenzene	100-41-4	MSD	19.90	0	20	99.3	79 - 121	RPD 4.44 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	19.80	0	20	99	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.20	0	20	101	66 - 134	RPD 1.78 (Max-30)	
Isopropylbenzene	98-82-8	MS	24.40	0	20	122	72 - 131		
Isopropylbenzene	98-82-8	MSD	23.50	0	20	118	72 - 131	RPD 3.44 (Max-30)	
Methylene Chloride	75-09-2	MS	21.70	0	20	109	74 - 124		
Methylene Chloride	75-09-2	MSD	20.30	0	20	101	74 - 124	RPD 6.84 (Max-30)	
mp-Xylene	108383/106423	MS	41.10	0	40	103	80 - 121		
mp-Xylene	108383/106423	MSD	39.30	0	40	98.2	80 - 121	RPD 4.43 (Max-30)	
Naphthalene	91-20-3	MS	18.50	0	20	92.5	61 - 128		
Naphthalene	91-20-3	MSD	17.90	0	20	89.6	61 - 128	RPD 3.18 (Max-30)	
n-Butylbenzene	104-51-8	MS	22.70	0	20	113	75 - 128		
n-Butylbenzene	104-51-8	MSD	21.10	0	20	106	75 - 128	RPD 7 (Max-30)	
n-Propylbenzene	103-65-1	MS	23.70	0	20	118	76 - 126		
n-Propylbenzene	103-65-1	MSD	22.40	0	20	112	76 - 126	RPD 5.32 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.40	0	20	117	79 - 122		
o-Chlorotoluene	95-49-8	MSD	22.60	0	20	113	79 - 122	RPD 3.66 (Max-30)	
o-Xylene	95-47-6	MS	20.30	0	20	101	78 - 122		
o-Xylene	95-47-6	MSD	19.60	0	20	97.9	78 - 122	RPD 3.35 (Max-30)	
p-Chlorotoluene	106-43-4	MS	23.50	0	20	117	78 - 122		
p-Chlorotoluene	106-43-4	MSD	22.80	0	20	114	78 - 122	RPD 3.03 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	23.40	0	20	117	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	22.40	0	20	112	77 - 127	RPD 4.58 (Max-30)	
sec-Butylbenzene	135-98-8	MS	24.60	0	20	123	77 - 126		
sec-Butylbenzene	135-98-8	MSD	23.40	0	20	117	77 - 126	RPD 4.97 (Max-30)	
Styrene	100-42-5	MS	21.20	0	20	106	78 - 123		
Styrene	100-42-5	MSD	20	0	20	100	78 - 123	RPD 5.62 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24	0	20	120	78 - 124		
tert-Butylbenzene	98-06-6	MSD	22.90	0	20	115	78 - 124	RPD 4.76 (Max-30)	
Tetrachloroethene	127-18-4	MS	20.90	0	20	104	74 - 129		
Tetrachloroethene	127-18-4	MSD	20	0	20	100	74 - 129	RPD 4.23 (Max-30)	
Toluene	108-88-3	MS	20.90	0	20	104	80 - 121		
Toluene	108-88-3	MSD	19.90	0	20	99.3	80 - 121	RPD 5.10 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23.60	0.79	20	114	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	22.40	0.79	20	108	75 - 124	RPD 5.35 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	19.60	0	20	98	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19	0	20	94.9	73 - 127	RPD 3.23 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	21.10	0	20	106	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	19.30	0	20	96.4	65 - 141	RPD 9.03 (Max-30)	
Vinyl Chloride	75-01-4	MS	22.90	0.97	20	110	58 - 137		
Vinyl Chloride	75-01-4	MSD	20.50	0.97	20	97.6	58 - 137	RPD 11.20 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	33.50	30	112	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	30.80	30	103	81 - 118	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4-Bromofluorobenzene	460-00-4	MS	28	30	93.3	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.80	30	96	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30.40	30	101	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	28.30	30	94.4	80 - 119	
Toluene-d8	2037-26-5	MS	29.10	30	97.2	89 - 112	
Toluene-d8	2037-26-5	MSD	29.10	30	97	89 - 112	

Method Blank 3844895 (MB) Created on 06/26/2024 20:11 For QC Batch 1234508

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.30	30	101	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	29.10	30	97.1	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.90	30	92.9	80 - 119	
Toluene-d8	2037-26-5	BLK	30.30	30	101	89 - 112	

Lab Control Standard 3844896 (LCS) Created on 06/26/2024 20:11 For QC Batch 1234508

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	20.20		20	101	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.90		20	109	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23.70		20	118	71 - 121		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,2-Trichloroethane	79-00-5	LCS	22.20		20	111	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	21		20	105	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.20		20	106	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	20.90		20	104	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.90		20	99.3	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	22.80		20	114	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.90		20	124	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	21.50		20	107	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.20		20	90.8	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19.60		20	97.9	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	23.30		20	116	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	20.20		20	101	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	21		20	105	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.90		20	115	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	23.70		20	119	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	22.10		20	111	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	23.20		20	116	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21.50		20	108	60 - 139		
2-Butanone	78-93-3	LCS	105		100	105	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	67 - 130		
Acetone	67-64-1	LCS	113		100	113	39 - 160		
Benzene	71-43-2	LCS	20		20	100	79 - 120		
Bromobenzene	108-86-1	LCS	22.40		20	112	80 - 120		
Bromochloromethane	74-97-5	LCS	21.70		20	109	78 - 123		
Bromodichloromethane	75-27-4	LCS	19.40		20	97.1	79 - 125		
Bromoform	75-25-2	LCS	18.70		20	93.4	66 - 130		
Bromomethane	74-83-9	LCS	21.30		20	106	53 - 141		
Carbon Disulfide	75-15-0	LCS	20.80		20	104	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.80		20	88.9	72 - 136		
Chlorobenzene	108-90-7	LCS	21.60		20	108	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.70		20	93.4	74 - 126		
Chloroethane	75-00-3	LCS	20.10		20	101	60 - 138		
Chloroform	67-66-3	LCS	21.10		20	106	79 - 124		
Chloromethane	74-87-3	LCS	20.60		20	103	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	21.40		20	107	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	20		20	99.9	75 - 124		
Dibromomethane	74-95-3	LCS	21.10		20	106	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	20.30		20	102	32 - 152		
Ethylbenzene	100-41-4	LCS	20.40		20	102	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	22.80		20	114	66 - 134		
Isopropylbenzene	98-82-8	LCS	24.30		20	122	72 - 131		
Methylene Chloride	75-09-2	LCS	20.50		20	103	74 - 124		
mp-Xylene	108383/106423	LCS	40.30		40	101	80 - 121		
Naphthalene	91-20-3	LCS	19.50		20	97.3	61 - 128		
n-Butylbenzene	104-51-8	LCS	23		20	115	75 - 128		
n-Propylbenzene	103-65-1	LCS	22.90		20	114	76 - 126		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
o-Chlorotoluene	95-49-8	LCS	23.50		20	118	79 - 122		
o-Xylene	95-47-6	LCS	20.10		20	101	78 - 122		
p-Chlorotoluene	106-43-4	LCS	24.20		20	121	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	22.70		20	114	77 - 127		
sec-Butylbenzene	135-98-8	LCS	24.20		20	121	77 - 126		
Styrene	100-42-5	LCS	21.20		20	106	78 - 123		
tert-Butylbenzene	98-06-6	LCS	24.10		20	120	78 - 124		
Tetrachloroethene	127-18-4	LCS	20.50		20	103	74 - 129		
Toluene	108-88-3	LCS	20.60		20	103	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	20.90		20	105	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	20		20	100	73 - 127		
Trichloroethene	79-01-6	LCS	19.20		20	95.9	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	20		20	100	65 - 141		
Vinyl Chloride	75-01-4	LCS	20.20		20	101	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.90	30	99.7	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	31.20	30	104	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.30	30	97.7	80 - 119	
Toluene-d8	2037-26-5	LCS	30.20	30	101	89 - 112	

QC Batch

QC Batch	1235282	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366029007 3366029008 3366029003 3366029005 3366029006

Matrix Spike 3845270 (MS) 3366027010 (non-Project Sample) For QC Batch 1235282

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3845271 (MSD) 3366027010 (non-Project Sample) For QC Batch 1235282

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	23.80	0	20	119	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	22.40	0	20	112	78 - 124	RPD 6.18 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	24.70	0	20	123	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	23.20	0	20	116	74 - 131	RPD 6.07 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23	0	20	115	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	21	0	20	105	71 - 121	RPD 9.25 (Max-30)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,2-Trichloroethane	79-00-5	MS	22.40	0	20	112	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21.30	0	20	107	80 - 119	RPD 4.95 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	21.30	0	20	107	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	19.90	0	20	99.4	77 - 125	RPD 7.06 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	24.30	0	20	121	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	22.40	0	20	112	71 - 131	RPD 8.30 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.70	0	20	119	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.60	0	20	108	79 - 125	RPD 9.24 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	22	0	20	110	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	19.70	0	20	98.7	69 - 129	RPD 10.70 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.50	0	20	113	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	20.80	0	20	104	73 - 122	RPD 8.10 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	24.30	0	20	121	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.20	0	20	111	69 - 130	RPD 8.86 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	24.20	0	20	121	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	21.30	0	20	106	76 - 124	RPD 13 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	20.20	0	20	101	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	19.10	0	20	95.4	62 - 128	RPD 5.76 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	22.30	0	20	111	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	21.10	0	20	106	77 - 121	RPD 5.32 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	23	0	20	115	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	20.30	0	20	102	80 - 119	RPD 12.20 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	22.80	0	20	114	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	21.40	0	20	107	73 - 128	RPD 5.99 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	23.40	0	20	117	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.60	0	20	108	78 - 122	RPD 8.03 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	24.30	0	20	121	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	21.60	0	20	108	75 - 124	RPD 11.80 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.90	0	20	115	80 - 119		
1,3-Dichlorobenzene	541-73-1	MSD	20.30	0	20	102	80 - 119	RPD 12 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	23.10	0	20	115	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	21.60	0	20	108	80 - 119	RPD 6.58 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	22.40	0	20	112	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	19.90	0	20	99.4	79 - 118	RPD 11.80 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	22.50	0	20	112	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	20	0	20	99.9	60 - 139	RPD 11.70 (Max-30)	
2-Butanone	78-93-3	MS	104	0	100	104	56 - 143		
2-Butanone	78-93-3	MSD	101	0	100	101	56 - 143	RPD 2.82 (Max-30)	
2-Hexanone	591-78-6	MS	100	0	100	100	57 - 139		
2-Hexanone	591-78-6	MSD	92.40	0	100	92.4	57 - 139	RPD 8 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	102	0	100	102	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	95.80	0	100	95.8	67 - 130	RPD 6.06 (Max-30)	
Acetone	67-64-1	MS	108	0	100	108	39 - 160		
Acetone	67-64-1	MSD	103	0	100	103	39 - 160	RPD 4.90 (Max-30)	
Benzene	71-43-2	MS	23.40	0	20	117	79 - 120		
Benzene	71-43-2	MSD	21.40	0	20	107	79 - 120	RPD 8.71 (Max-30)	
Bromobenzene	108-86-1	MS	22.80	0	20	114	80 - 120		
Bromobenzene	108-86-1	MSD	20.30	0	20	101	80 - 120	RPD 11.80 (Max-30)	
Bromochloromethane	74-97-5	MS	23.10	0	20	116	78 - 123		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	MSD	22.80	0	20	114	78 - 123	RPD 1.52 (Max-30)	
Bromodichloromethane	75-27-4	MS	23.50	0	20	117	79 - 125		
Bromodichloromethane	75-27-4	MSD	22.40	0	20	112	79 - 125	RPD 4.51 (Max-30)	
Bromoform	75-25-2	MS	20.20	0	20	101	66 - 130		
Bromoform	75-25-2	MSD	18.90	0	20	94.4	66 - 130	RPD 6.94 (Max-30)	
Bromomethane	74-83-9	MS	22.30	0	20	111	53 - 141		
Bromomethane	74-83-9	MSD	20.70	0	20	104	53 - 141	RPD 7.40 (Max-30)	
Carbon Disulfide	75-15-0	MS	23	0	20	115	64 - 133		
Carbon Disulfide	75-15-0	MSD	20.90	0	20	104	64 - 133	RPD 9.82 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	22.50	0	20	112	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	19.90	0	20	99.5	72 - 136	RPD 12.10 (Max-30)	
Chlorobenzene	108-90-7	MS	23.10	0	20	115	82 - 118		
Chlorobenzene	108-90-7	MSD	21.30	0	20	106	82 - 118	RPD 8.14 (Max-30)	
Chlorodibromomethane	124-48-1	MS	20.40	0	20	102	74 - 126		
Chlorodibromomethane	124-48-1	MSD	19.20	0	20	95.8	74 - 126	RPD 6.38 (Max-30)	
Chloroethane	75-00-3	MS	23.80	0	20	119	60 - 138		
Chloroethane	75-00-3	MSD	21	0	20	105	60 - 138	RPD 12.70 (Max-30)	
Chloroform	67-66-3	MS	22.40	0	20	112	79 - 124		
Chloroform	67-66-3	MSD	20.80	0	20	104	79 - 124	RPD 7.35 (Max-30)	
Chloromethane	74-87-3	MS	21.20	0.33	20	104	50 - 139		
Chloromethane	74-87-3	MSD	19.30	0.33	20	95.1	50 - 139	RPD 8.96 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	23.70	0	20	118	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	22.40	0	20	112	78 - 123	RPD 5.63 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	20.30	0	20	102	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	19	0	20	94.9	75 - 124	RPD 6.92 (Max-30)	
Dibromomethane	74-95-3	MS	22.90	0	20	114	79 - 123		
Dibromomethane	74-95-3	MSD	22.10	0	20	110	79 - 123	RPD 3.68 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	22.40	0	20	112	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	19.50	0	20	97.4	32 - 152	RPD 13.70 (Max-30)	
Ethylbenzene	100-41-4	MS	23.60	0	20	118	79 - 121		
Ethylbenzene	100-41-4	MSD	21.20	0	20	106	79 - 121	RPD 11.10 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	23	0	20	115	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.40	0	20	102	66 - 134	RPD 12 (Max-30)	
Isopropylbenzene	98-82-8	MS	25.10	0	20	125	72 - 131		
Isopropylbenzene	98-82-8	MSD	21.90	0	20	110	72 - 131	RPD 13.40 (Max-30)	
Methylene Chloride	75-09-2	MS	23.10	0	20	116	74 - 124		
Methylene Chloride	75-09-2	MSD	22	0	20	110	74 - 124	RPD 5.10 (Max-30)	
mp-Xylene	108383/106423	MS	47.50	0	40	119	80 - 121		
mp-Xylene	108383/106423	MSD	43.40	0	40	109	80 - 121	RPD 8.91 (Max-30)	
Naphthalene	91-20-3	MS	20.90	0	20	104	61 - 128		
Naphthalene	91-20-3	MSD	19.10	0	20	95.3	61 - 128	RPD 9.09 (Max-30)	
n-Butylbenzene	104-51-8	MS	23.30	0	20	116	75 - 128		
n-Butylbenzene	104-51-8	MSD	20.70	0	20	104	75 - 128	RPD 11.70 (Max-30)	
n-Propylbenzene	103-65-1	MS	22.90	0	20	115	76 - 126		
n-Propylbenzene	103-65-1	MSD	20	0	20	99.8	76 - 126	RPD 13.90 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.80	0	20	119	79 - 122		
o-Chlorotoluene	95-49-8	MSD	20.90	0	20	105	79 - 122	RPD 12.70 (Max-30)	
o-Xylene	95-47-6	MS	23.70	0	20	119	78 - 122		
o-Xylene	95-47-6	MSD	21.50	0	20	108	78 - 122	RPD 9.63 (Max-30)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
p-Chlorotoluene	106-43-4	MS	23.10	0	20	116	78 - 122		
p-Chlorotoluene	106-43-4	MSD	20.50	0	20	103	78 - 122	RPD 11.90 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	23.70	0	20	119	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	20.90	0	20	105	77 - 127	RPD 12.50 (Max-30)	
sec-Butylbenzene	135-98-8	MS	24.10	0	20	121	77 - 126		
sec-Butylbenzene	135-98-8	MSD	21.20	0	20	106	77 - 126	RPD 13 (Max-30)	
Styrene	100-42-5	MS	21.80	0	20	109	78 - 123		
Styrene	100-42-5	MSD	19.20	0	20	96.2	78 - 123	RPD 12.50 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24.10	0	20	121	78 - 124		
tert-Butylbenzene	98-06-6	MSD	20.80	0	20	104	78 - 124	RPD 14.70 (Max-30)	
Tetrachloroethene	127-18-4	MS	21.60	0	20	108	74 - 129		
Tetrachloroethene	127-18-4	MSD	19.90	0	20	99.4	74 - 129	RPD 8.06 (Max-30)	
Toluene	108-88-3	MS	23	0	20	115	80 - 121		
Toluene	108-88-3	MSD	20.70	0	20	104	80 - 121	RPD 10.50 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23.70	0	20	118	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	21.50	0	20	108	75 - 124	RPD 9.58 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.20	0	20	106	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19.70	0	20	98.5	73 - 127	RPD 7.23 (Max-30)	
Trichloroethene	79-01-6	MS	23.20	0.54	20	113	79 - 123		
Trichloroethene	79-01-6	MSD	21.20	0.54	20	103	79 - 123	RPD 8.94 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	22.50	0	20	113	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	20.30	0	20	102	65 - 141	RPD 10.30 (Max-30)	
Vinyl Chloride	75-01-4	MS	22.60	0	20	113	58 - 137		
Vinyl Chloride	75-01-4	MSD	20.10	0	20	101	58 - 137	RPD 11.70 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.70	30	106	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	31.20	30	104	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	30.90	30	103	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.80	30	95.8	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30.60	30	102	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	30.70	30	102	80 - 119	
Toluene-d8	2037-26-5	MS	30.20	30	101	89 - 112	
Toluene-d8	2037-26-5	MSD	30.20	30	101	89 - 112	

Method Blank 3845268 (MB) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.30	30	97.6	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	29.10	30	97	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.10	30	96.9	80 - 119	
Toluene-d8	2037-26-5	BLK	29.40	30	98.2	89 - 112	

Lab Control Standard 3845269 (LCS) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	23.30		20	116	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.80		20	109	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.90		20	115	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	22.40		20	112	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	19.90		20	99.7	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.20		20	106	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	21.30		20	106	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	23.40		20	117	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.30		20	107	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	25.20		20	126	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	23.50		20	118	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.60		20	103	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	22		20	110	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	23.10		20	116	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	21		20	105	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	22.10		20	110	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	23.50		20	118	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	22.80		20	114	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	22.60		20	113	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	22.70		20	113	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	23.20		20	116	60 - 139		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
2-Butanone	78-93-3	LCS	110		100	110	56 - 143		
2-Hexanone	591-78-6	LCS	102		100	102	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	67 - 130		
Acetone	67-64-1	LCS	121		100	121	39 - 160		
Benzene	71-43-2	LCS	21.70		20	108	79 - 120		
Bromobenzene	108-86-1	LCS	22.20		20	111	80 - 120		
Bromochloromethane	74-97-5	LCS	22.70		20	114	78 - 123		
Bromodichloromethane	75-27-4	LCS	22.10		20	111	79 - 125		
Bromoform	75-25-2	LCS	19.90		20	99.7	66 - 130		
Bromomethane	74-83-9	LCS	19.80		20	99	53 - 141		
Carbon Disulfide	75-15-0	LCS	21.60		20	108	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	19.10		20	95.4	72 - 136		
Chlorobenzene	108-90-7	LCS	23.10		20	115	82 - 118		
Chlorodibromomethane	124-48-1	LCS	20.30		20	101	74 - 126		
Chloroethane	75-00-3	LCS	20.60		20	103	60 - 138		
Chloroform	67-66-3	LCS	21.10		20	106	79 - 124		
Chloromethane	74-87-3	LCS	19.10		20	95.7	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	22.20		20	111	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.50		20	103	75 - 124		
Dibromomethane	74-95-3	LCS	21.60		20	108	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	18.30		20	91.6	32 - 152		
Ethylbenzene	100-41-4	LCS	22.40		20	112	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	24.20		20	121	66 - 134		
Isopropylbenzene	98-82-8	LCS	23.90		20	120	72 - 131		
Methylene Chloride	75-09-2	LCS	21.70		20	109	74 - 124		
mp-Xylene	108383/106423	LCS	46.30		40	116	80 - 121		
Naphthalene	91-20-3	LCS	21.60		20	108	61 - 128		
n-Butylbenzene	104-51-8	LCS	23.50		20	117	75 - 128		
n-Propylbenzene	103-65-1	LCS	22.60		20	113	76 - 126		
o-Chlorotoluene	95-49-8	LCS	23.10		20	116	79 - 122		
o-Xylene	95-47-6	LCS	23.40		20	117	78 - 122		
p-Chlorotoluene	106-43-4	LCS	23.10		20	116	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	23.20		20	116	77 - 127		
sec-Butylbenzene	135-98-8	LCS	23.30		20	116	77 - 126		
Styrene	100-42-5	LCS	22.20		20	111	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.50		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	21.50		20	107	74 - 129		
Toluene	108-88-3	LCS	22.20		20	111	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	21.70		20	109	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	21.20		20	106	73 - 127		
Trichloroethene	79-01-6	LCS	20.70		20	103	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	18.90		20	94.4	65 - 141		
Vinyl Chloride	75-01-4	LCS	20.60		20	103	58 - 137		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.40	30	98.2	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.40	30	98.2	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29	30	96.8	80 - 119	
Toluene-d8	2037-26-5	LCS	30.10	30	100	89 - 112	

QC Batch

QC Batch	1235666	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366029002

Matrix Spike 3845610 (MS) 3366036002 (non-Project Sample) For QC Batch 1235666

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3845611 (MSD) 3366036002 (non-Project Sample) For QC Batch 1235666

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	20.60	0	20	103	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	19.60	0	20	98.2	78 - 124	RPD 4.86 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	23.70	0	20	118	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	22.10	0	20	111	74 - 131	RPD 6.85 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.50	0	20	118	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	22.90	0	20	114	71 - 121	RPD 2.92 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	22.40	0	20	112	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21	0	20	105	80 - 119	RPD 6.54 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	23	0	20	115	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	21.40	0	20	107	77 - 125	RPD 7.46 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	23.30	0	20	116	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	21.50	0	20	107	71 - 131	RPD 8.09 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.10	0	20	116	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.10	0	20	106	79 - 125	RPD 8.94 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	19.10	0	20	95.6	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	18.70	0	20	93.3	69 - 129	RPD 2.42 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.80	0	20	114	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	22.60	0	20	113	73 - 122	RPD 1.14 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	23.40	0	20	117	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.90	0	20	114	69 - 130	RPD 2.38 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.90	0	20	110	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	21.40	0	20	107	76 - 124	RPD 2.34 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19	0	20	95.2	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	17.70	0	20	88.6	62 - 128	RPD 7.16 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	20.20	0	20	101	77 - 121		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dibromoethane	106-93-4	MSD	19.30	0	20	96.4	77 - 121	RPD 4.64 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	23.20	0	20	116	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	22.30	0	20	111	80 - 119	RPD 3.86 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	21.90	0	20	109	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	20.50	0	20	103	73 - 128	RPD 6.41 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	22.60	0	20	113	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.20	0	20	106	78 - 122	RPD 6.41 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	23.80	0	20	119	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	22.90	0	20	115	75 - 124	RPD 3.56 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	23.30	0	20	117	80 - 119		
1,3-Dichlorobenzene	541-73-1	MSD	22.50	0	20	112	80 - 119	RPD 3.69 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	22.80	0	20	114	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	22	0	20	110	80 - 119	RPD 3.92 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	23.10	0	20	116	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	22.20	0	20	111	79 - 118	RPD 3.96 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	21.60	0	20	108	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	19.70	0	20	98.6	60 - 139	RPD 9.35 (Max-30)	
2-Butanone	78-93-3	MS	102	0	100	102	56 - 143		
2-Butanone	78-93-3	MSD	97.40	0	100	97.4	56 - 143	RPD 4.92 (Max-30)	
2-Hexanone	591-78-6	MS	103	0	100	103	57 - 139		
2-Hexanone	591-78-6	MSD	98.80	0	100	98.8	57 - 139	RPD 4.62 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	106	0	100	106	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	102	0	100	102	67 - 130	RPD 4.01 (Max-30)	
Acetone	67-64-1	MS	97.10	0	100	97.1	39 - 160		
Acetone	67-64-1	MSD	93	0	100	93	39 - 160	RPD 4.28 (Max-30)	
Benzene	71-43-2	MS	21.80	0	20	109	79 - 120		
Benzene	71-43-2	MSD	20.50	0	20	102	79 - 120	RPD 6.31 (Max-30)	
Bromobenzene	108-86-1	MS	23.20	0	20	116	80 - 120		
Bromobenzene	108-86-1	MSD	22.70	0	20	113	80 - 120	RPD 2.17 (Max-30)	
Bromochloromethane	74-97-5	MS	22.10	0	20	110	78 - 123		
Bromochloromethane	74-97-5	MSD	21.80	0	20	109	78 - 123	RPD 1.46 (Max-30)	
Bromodichloromethane	75-27-4	MS	20.70	0	20	103	79 - 125		
Bromodichloromethane	75-27-4	MSD	18.90	0	20	94.6	79 - 125	RPD 8.78 (Max-30)	
Bromoform	75-25-2	MS	18.40	0	20	91.9	66 - 130		
Bromoform	75-25-2	MSD	17.90	0	20	89.6	66 - 130	RPD 2.55 (Max-30)	
Bromomethane	74-83-9	MS	21.60	0	20	108	53 - 141		
Bromomethane	74-83-9	MSD	19.70	0	20	98.7	53 - 141	RPD 8.99 (Max-30)	
Carbon Disulfide	75-15-0	MS	20.80	0	20	104	64 - 133		
Carbon Disulfide	75-15-0	MSD	19.50	0	20	97.4	64 - 133	RPD 6.49 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	19.80	0	20	98.9	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	18.30	0	20	91.3	72 - 136	RPD 8.04 (Max-30)	
Chlorobenzene	108-90-7	MS	22.50	0	20	113	82 - 118		
Chlorobenzene	108-90-7	MSD	21.30	0	20	107	82 - 118	RPD 5.40 (Max-30)	
Chlorodibromomethane	124-48-1	MS	18.90	0	20	94.7	74 - 126		
Chlorodibromomethane	124-48-1	MSD	18.20	0	20	90.8	74 - 126	RPD 4.18 (Max-30)	
Chloroethane	75-00-3	MS	21.90	0	20	110	60 - 138		
Chloroethane	75-00-3	MSD	19.90	0	20	99.3	60 - 138	RPD 9.94 (Max-30)	
Chloroform	67-66-3	MS	22.20	0	20	111	79 - 124		
Chloroform	67-66-3	MSD	21.10	0	20	105	79 - 124	RPD 5.16 (Max-30)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloromethane	74-87-3	MS	21.70	0	20	108	50 - 139		
Chloromethane	74-87-3	MSD	19.50	0	20	97.4	50 - 139	RPD 10.70 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	23.10	0	20	115	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	21.30	0	20	107	78 - 123	RPD 7.94 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.70	0	20	98.7	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	18.80	0	20	94.2	75 - 124	RPD 4.66 (Max-30)	
Dibromomethane	74-95-3	MS	22.20	0	20	111	79 - 123		
Dibromomethane	74-95-3	MSD	20.40	0	20	102	79 - 123	RPD 8.58 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	20.70	0	20	103	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	18.80	0	20	94.1	32 - 152	RPD 9.25 (Max-30)	
Ethylbenzene	100-41-4	MS	21.40	0	20	107	79 - 121		
Ethylbenzene	100-41-4	MSD	20.10	0	20	101	79 - 121	RPD 6.16 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	20.80	0	20	104	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.80	0	20	104	66 - 134	RPD 0.28 (Max-30)	
Isopropylbenzene	98-82-8	MS	25.40	0	20	127	72 - 131		
Isopropylbenzene	98-82-8	MSD	24.40	0	20	122	72 - 131	RPD 3.98 (Max-30)	
Methylene Chloride	75-09-2	MS	21.80	0	20	109	74 - 124		
Methylene Chloride	75-09-2	MSD	20.40	0	20	102	74 - 124	RPD 6.73 (Max-30)	
mp-Xylene	108383/106423	MS	42.40	0	40	106	80 - 121		
mp-Xylene	108383/106423	MSD	40.40	0	40	101	80 - 121	RPD 4.71 (Max-30)	
Naphthalene	91-20-3	MS	19.30	0	20	96.7	61 - 128		
Naphthalene	91-20-3	MSD	19	0	20	95.2	61 - 128	RPD 1.61 (Max-30)	
n-Butylbenzene	104-51-8	MS	22.80	0	20	114	75 - 128		
n-Butylbenzene	104-51-8	MSD	22.90	0	20	114	75 - 128	RPD 0.48 (Max-30)	
n-Propylbenzene	103-65-1	MS	24	0	20	120	76 - 126		
n-Propylbenzene	103-65-1	MSD	23.10	0	20	116	76 - 126	RPD 3.62 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.90	0	20	120	79 - 122		
o-Chlorotoluene	95-49-8	MSD	23.30	0	20	117	79 - 122	RPD 2.52 (Max-30)	
o-Xylene	95-47-6	MS	21.20	0	20	106	78 - 122		
o-Xylene	95-47-6	MSD	19.90	0	20	99.6	78 - 122	RPD 6.39 (Max-30)	
p-Chlorotoluene	106-43-4	MS	24	0	20	120	78 - 122		
p-Chlorotoluene	106-43-4	MSD	23.30	0	20	117	78 - 122	RPD 2.72 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	24.30	0	20	122	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	23	0	20	115	77 - 127	RPD 5.42 (Max-30)	
sec-Butylbenzene	135-98-8	MS	25.20	0	20	126	77 - 126		
sec-Butylbenzene	135-98-8	MSD	24.30	0	20	122	77 - 126	RPD 3.43 (Max-30)	
Styrene	100-42-5	MS	21.90	0	20	109	78 - 123		
Styrene	100-42-5	MSD	21	0	20	105	78 - 123	RPD 4.26 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24.80	0	20	124	78 - 124		
tert-Butylbenzene	98-06-6	MSD	23.90	0	20	120	78 - 124	RPD 3.71 (Max-30)	
Tetrachloroethene	127-18-4	MS	21.10	0	20	106	74 - 129		
Tetrachloroethene	127-18-4	MSD	20.30	0	20	102	74 - 129	RPD 3.88 (Max-30)	
Toluene	108-88-3	MS	21.40	0	20	107	80 - 121		
Toluene	108-88-3	MSD	20.30	0	20	101	80 - 121	RPD 5.38 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23	0	20	115	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	21.10	0	20	106	75 - 124	RPD 8.76 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	20	0	20	99.9	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19	0	20	95.1	73 - 127	RPD 4.91 (Max-30)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Trichloroethene	79-01-6	MS	22.40	0.93	20	107	79 - 123		
Trichloroethene	79-01-6	MSD	20.90	0.93	20	99.8	79 - 123	RPD 6.78 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	21.70	0	20	109	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	19.60	0	20	98.2	65 - 141	RPD 10 (Max-30)	
Vinyl Chloride	75-01-4	MS	21.50	0	20	108	58 - 137		
Vinyl Chloride	75-01-4	MSD	19.50	0	20	97.3	58 - 137	RPD 10.20 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	32.40	30	108	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	32.60	30	109	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	30	30	100	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	31	30	103	85 - 114	
Dibromofluoromethane	1868-53-7	MS	29.10	30	97.1	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	30.80	30	103	80 - 119	
Toluene-d8	2037-26-5	MS	30.20	30	101	89 - 112	
Toluene-d8	2037-26-5	MSD	31	30	103	89 - 112	

Method Blank 3845608 (MB) Created on 06/27/2024 20:24 For QC Batch 1235666

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.90	30	99.7	81 - 118	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
4-Bromofluorobenzene	460-00-4	BLK	29.70	30	99.1	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.60	30	91.9	80 - 119	
Toluene-d8	2037-26-5	BLK	30.20	30	101	89 - 112	

Lab Control Standard 3845609 (LCS) Created on 06/27/2024 20:24 For QC Batch 1235666

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.20		20	96	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	20.20		20	101	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.50		20	113	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	21.20		20	106	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	19.70		20	98.7	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	19.40		20	97	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	19.10		20	95.6	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.30		20	96.5	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.90		20	110	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	23.80		20	119	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	20		20	100	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.90		20	94.7	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19.10		20	95.7	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	22		20	110	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	20		20	99.9	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	20.20		20	101	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	21.20		20	106	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	21.60		20	108	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	21.50		20	108	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	21.50		20	107	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21		20	105	60 - 139		
2-Butanone	78-93-3	LCS	105		100	105	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	102		100	102	67 - 130		
Acetone	67-64-1	LCS	112		100	112	39 - 160		
Benzene	71-43-2	LCS	19.20		20	96	79 - 120		
Bromobenzene	108-86-1	LCS	21.60		20	108	80 - 120		
Bromochloromethane	74-97-5	LCS	21.10		20	105	78 - 123		
Bromodichloromethane	75-27-4	LCS	18.90		20	94.4	79 - 125		
Bromoform	75-25-2	LCS	17.90		20	89.6	66 - 130		
Bromomethane	74-83-9	LCS	16.20		20	81.2	53 - 141		
Carbon Disulfide	75-15-0	LCS	19		20	94.9	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.40		20	87	72 - 136		
Chlorobenzene	108-90-7	LCS	20.40		20	102	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.50		20	92.6	74 - 126		
Chloroethane	75-00-3	LCS	18		20	90	60 - 138		
Chloroform	67-66-3	LCS	20.10		20	101	79 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chloromethane	74-87-3	LCS	17.30		20	86.3	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	20.40		20	102	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.80		20	94.1	75 - 124		
Dibromomethane	74-95-3	LCS	20.60		20	103	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	16.20		20	81	32 - 152		
Ethylbenzene	100-41-4	LCS	19.20		20	96	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	20.20		20	101	66 - 134		
Isopropylbenzene	98-82-8	LCS	22.40		20	112	72 - 131		
Methylene Chloride	75-09-2	LCS	19.80		20	99	74 - 124		
mp-Xylene	108383/106423	LCS	37.60		40	93.9	80 - 121		
Naphthalene	91-20-3	LCS	20		20	99.9	61 - 128		
n-Butylbenzene	104-51-8	LCS	21.10		20	105	75 - 128		
n-Propylbenzene	103-65-1	LCS	21.20		20	106	76 - 126		
o-Chlorotoluene	95-49-8	LCS	21.70		20	109	79 - 122		
o-Xylene	95-47-6	LCS	19.10		20	95.6	78 - 122		
p-Chlorotoluene	106-43-4	LCS	22.10		20	110	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	21.50		20	107	77 - 127		
sec-Butylbenzene	135-98-8	LCS	21.90		20	109	77 - 126		
Styrene	100-42-5	LCS	19.90		20	99.4	78 - 123		
tert-Butylbenzene	98-06-6	LCS	21.70		20	109	78 - 124		
Tetrachloroethene	127-18-4	LCS	19.60		20	97.9	74 - 129		
Toluene	108-88-3	LCS	19.20		20	95.8	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	20		20	100	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.40		20	97.2	73 - 127		
Trichloroethene	79-01-6	LCS	19.10		20	95.4	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	17		20	84.9	65 - 141		
Vinyl Chloride	75-01-4	LCS	16.70		20	83.6	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	30.60	30	102	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	30.60	30	102	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.80	30	99.4	80 - 119	
Toluene-d8	2037-26-5	LCS	30.90	30	103	89 - 112	

Project HS24060795
Workorder 3366029

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3366029001	HS24060795-02	N/A	N/A	N/A		SW846 8260D	1234508
3366029002	HS24060795-03	N/A	N/A	N/A		SW846 8260D	1235666
		N/A	N/A	N/A		SW846 8260D	1234508
3366029003	HS24060795-04	N/A	N/A	N/A		SW846 8260D	1235282
		N/A	N/A	N/A		SW846 8260D	1234508
3366029004	HS24060795-05	N/A	N/A	N/A		SW846 8260D	1234508
3366029005	HS24060795-06	N/A	N/A	N/A		SW846 8260D	1235282
		N/A	N/A	N/A		SW846 8260D	1234508
3366029006	HS24060795-07	N/A	N/A	N/A		SW846 8260D	1235282
		N/A	N/A	N/A		SW846 8260D	1234508
3366029007	HS24060795-08	N/A	N/A	N/A		SW846 8260D	1235282
3366029008	HS24060795-09	N/A	N/A	N/A		SW846 8260D	1235282
3366029009	HS24060795-10	N/A	N/A	N/A		SW846 8260D	1234508

10450 Stancliff Rd, Ste 210
Houston, TX 77099
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Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 26141

3366029
Logged By: MJE
PM: SSL

SUBCONTRACT TO:

ALS
301 Fulling Mill Road
Middletown, PA 17057

Phone: +1 717 702 2244

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060795
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060795-02**	**18CPTMW06_06224**	**Water**	**12 Jun 2024 07:45**
	Custom selection	1-G|HCL MJE 6/26/24		27 Jun 2024
2.	**HS24060795-03**	**MW22_061224**	**Water**	**12 Jun 2024 08:30**
	Custom selection			27 Jun 2024
3.	**HS24060795-04**	**MW22_06224_a** 2-G|HCL	**Water**	**12 Jun 2024 08:30**
	Custom selection			27 Jun 2024
4.	**HS24060795-05**	**MW6_06224**	**Water**	**12 Jun 2024 09:20**
	Custom selection			27 Jun 2024
5.	**HS24060795-06**	**109_06224**	**Water**	**12 Jun 2024 10:15**
	Custom selection			27 Jun 2024
6.	**HS24060795-07**	**MW21_06224**	**Water**	**12 Jun 2024 11:00**
	Custom selection			27 Jun 2024
7.	**HS24060795-08**	**18CPTMW22SW_06224**	**Water**	**12 Jun 2024 11:45**
	Custom selection			27 Jun 2024
8.	**HS24060795-09**	**MW20_06224**	**Water**	**12 Jun 2024 12:00**
	Custom selection			27 Jun 2024
9.	**HS24060795-10**	**Trip Blank**	**Water**	**12 Jun 2024 00:00**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26141**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
Custom selection			27 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Temp By: MJE | WO Temp (°C): 1° | Therm ID: 570

	MIE
Receipt Info Completed By:	
Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N NA
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	N
CR6 Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N NA
NJ≤ 4 Days?	Y N
Rad Screen (uCi)	
Courier/Tracking #:	

7388792341761

SDWA Compliance	Y N
PWSID	
WV Containers 0-6°C	Y N NA

*Sent Sampler. G|G|G|HKL 6/26/24

pm notified via TM

Relinquished By: F Date/Time:

Received By: Fedex Date/Time:

Cooler ID(s): Fedex Temperature(s): 6/26/24 936

6/26/24 936

53 of 53

6/28/2024 4:20 PM

HS24060795 E2400685 Perch Level IV Report

ALS WO# HS24060795

June 26, 2024 Service Request No:E2400685

ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS24060795

Enclosed are the results of the sample(s) submitted to our laboratory June 13, 2024
For your reference, these analyses have been assigned our service request number **E2400685.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400685
Project:	HS24060795	**Date Received:**	06/13/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 06/13/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400123: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400685
Project: HS24060795

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400685-001	18CPTMW06_06224	6/12/2024	0745
E2400685-002	MW22_061224	6/12/2024	0830
E2400685-003	MW22_06224_a	6/12/2024	0830
E2400685-004	MW6_06224	6/12/2024	0920
E2400685-005	109_06224	6/12/2024	1015
E2400685-006	MW21_06224	6/12/2024	1100
E2400685-007	18CPTMW22SW_06224	6/12/2024	1145
E2400685-008	MW20_06224	6/12/2024	1200

Service Request Summary

Folder #: **E2400685**
Client Name: ALS Environmental - US
Project Name: HS24060795
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/13/24
Internal Due Date: 6/25/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400685-001	18CPTMW06_06224	Water	06/12/24 0745	**IV**
E2400685-002	MW22_061224	Water	06/12/24 0830	**IV**
E2400685-003	MW22_06224_a	Water	06/12/24 0830	**IV**
E2400685-004	MW6_06224	Water	06/12/24 0920	**IV**
E2400685-005	109_06224	Water	06/12/24 1015	**IV**
E2400685-006	MW21_06224	Water	06/12/24 1100	**IV**
E2400685-007	18CPTMW22SW_06224	Water	06/12/24 1145	**IV**
E2400685-008	MW20_06224	Water	06/12/24 1200	**IV**

Service Request Summary

Folder #: **E2400685**
Client Name: ALS Environmental - US
Project Name: HS24060795
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/13/24
Internal Due Date: 6/25/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1B
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
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E2400685 5
ALS Laboratory Group
HS24060795

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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26011**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060795
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060795-02**	**18CPTMW06_06224**	**Water**	**12 Jun 2024 07:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
2.	**HS24060795-03**	**MW22_061224**	**Water**	**12 Jun 2024 08:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
3.	**HS24060795-04**	**MW22_06224_a**	**Water**	**12 Jun 2024 08:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
4.	**HS24060795-05**	**MW6_06224**	**Water**	**12 Jun 2024 09:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
5.	**HS24060795-06**	**109_06224**	**Water**	**12 Jun 2024 10:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
6.	**HS24060795-07**	**MW21_06224**	**Water**	**12 Jun 2024 11:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
7.	**HS24060795-08**	**18CPTMW22SW_06224**	**Water**	**12 Jun 2024 11:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024
8.	**HS24060795-09**	**MW20_06224**	**Water**	**12 Jun 2024 12:00**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26011**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			27 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 6-14-24 1745

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E2400685 5
ALS Laboratory Group
HS24060796

10450 Stancliff Rd, Ste 210
Houston, TX 77099
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F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24060795 **Date/Time received:** 13 Jun 2024 09:12

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 13 Jun 2024 16:44 (Date/Time) Belinda Gomez (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: w **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present
Chain of custody present?	☑ Yes	☐ No	1 Page(s)
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):
Samplers name present on COC?	☑ Yes	☐ No	
Chain of custody agrees with sample labels?	☑ Yes	☐ No	
Samples in proper container/bottle?	☑ Yes	☐ No	
Sample containers intact?	☑ Yes	☐ No	
Sufficient sample volume for indicated test?	☑ Yes	☐ No	
All samples received within holding time?	☑ Yes	☐ No	
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No	

Temperature(s)/Thermometer(s): 2.1uc/2.2c ir31

Cooler Information: 1 Cooler(s), blue

Date/Time sample(s) sent to storage: 6/13/24 1645

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400685-001	18CPTMW06_06224	.01	6850/ClO4 DOD			Water	10mL	
2	E2400685-002	MW22_061224	.01	6850/ClO4 DOD			Water	10mL	
3	E2400685-003	MW22_06224_a	.01	6850/ClO4 DOD			Water	10mL	
4	E2400685-004	MW6_06224	.01	6850/ClO4 DOD			Water	10mL	
5	E2400685-005	109_06224	.01	6850/ClO4 DOD			Water	10mL	
6	E2400685-006	MW21_06224	.01	6850/ClO4 DOD			Water	10mL	
7	E2400685-007	18CPTMW22SW_06224	.01	6850/ClO4 DOD			Water	10mL	
8	E2400685-008	MW20_06224	.01	6850/ClO4 DOD			Water	10mL	
9	E2400691-001	MW12_061324	.01	6850/ClO4 DOD			Water	10mL	
10	E2400691-002	1824DPTMW06_061324	.01	6850/ClO4 DOD			Water	10mL	
11	E2400691-003	AWD4_061324	.01	6850/ClO4 DOD			Water	10mL	
12	E2400691-004	18CPTMW15_061324	.01	6850/ClO4 DOD			Water	10mL	
13	E2400691-005	18WW09_061324	.01	6850/ClO4 DOD			Water	10mL	
14	E2400691-006	18WW08_061324	.01	6850/ClO4 DOD			Water	10mL	
15	E2400691-007	18WW22_061324	.01	6850/ClO4 DOD			Water	10mL	
16	E2400691-008	CO4_061324	.01	6850/ClO4 DOD			Water	10mL	
17	E2400702-001	2406120956A ST-3-735	.04	6850/ClO4			Water	10mL	
18	E2400702-002	2406121437A ST-3-586	.01	6850/ClO4			Water	10mL	
19	E2400706-001	LH18/24-SP650_061824_BIX	.01	6850/ClO4 DOD			Water	10mL	
20	E2400706-002	LH18/24-SP650_061824_AIX	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2400335-01	MB		6850/ClO4			Liquid	10mL	
22	EQ2400335-02	LCS		6850/ClO4			Liquid	10mL	
23	EQ2400335-03	DLCS		6850/ClO4			Liquid	10mL	
24	EQ2400335-04	ICS		6850/ClO4			Liquid	10mL	
25	EQ2400335-05	MW12_061324 MS	.01	6850/ClO4 DOD			Liquid	10mL	
26	EQ2400335-06	MW12_061324 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400335-02 10.00µL EQ2400335-02 10.00µL EQ2400335-03 10.00µL EQ2400335-03 10.00µL EQ2400335-04 10.00µL EQ2400335-04 10.00µL
EQ2400335-05 10.00µL EQ2400335-06 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

Preparation Information Benchsheet

Prep Run#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

E2400685-001	100.00µL	E2400685-002	100.00µL	E2400685-003	100.00µL	E2400685-004	100.00µL	E2400685-005	100.00µL	E2400685-006	100.00µL
E2400685-007	100.00µL	E2400685-008	100.00µL	E2400691-001	100.00µL	E2400691-002	100.00µL	E2400691-003	100.00µL	E2400691-004	100.00µL
E2400691-005	100.00µL	E2400691-006	100.00µL	E2400691-007	100.00µL	E2400691-008	100.00µL	E2400702-001	100.00µL	E2400702-002	100.00µL
E2400706-001	100.00µL	E2400706-002	100.00µL	EQ2400335-01	100.00µL	EQ2400335-01	100.00µL	EQ2400335-02	100.00µL	EQ2400335-02	100.00µL
EQ2400335-03	100.00µL	EQ2400335-03	100.00µL	EQ2400335-04	100.00µL	EQ2400335-04	100.00µL	EQ2400335-05	100.00µL	EQ2400335-06	100.00µL

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/21/24 08:25
Finished: 6/21/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 0745
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	18CPTMW06_06224	**Units:**	µg/L
Lab Code:	E2400685-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**6.21**		1.00	0.500	0.250	10	6/21/24	6/24/24 10:47	440426	845372	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 0830
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	MW22_061224	**Units:**	µg/L
Lab Code:	E2400685-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**2770**		10.0	5.00	2.50	100	6/21/24	6/21/24 16:20	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 0830
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	MW22_06224_a	**Units:**	µg/L
Lab Code:	E2400685-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**3870**		10.0	5.00	2.50	100	6/21/24	6/21/24 16:25	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 0920
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	MW6_06224	**Units:**	µg/L
Lab Code:	E2400685-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**2940**		10.0	5.00	2.50	100	6/21/24	6/21/24 16:31	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 1015
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	109_06224	**Units:**	µg/L
Lab Code:	E2400685-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**4390**		20.0	10.0	5.00	200	6/21/24	6/21/24 16:36	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 1100
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	MW21_06224	**Units:**	µg/L
Lab Code:	E2400685-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1610**		10.0	5.00	2.50	100	6/21/24	6/24/24 10:53	440426	845372	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 1145
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	18CPTMW22SW_06224	**Units:**	µg/L
Lab Code:	E2400685-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**9820**		50.0	25.0	12.5	500	6/21/24	6/24/24 10:59	440426	845372	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	6/12/24 1200
Sample Matrix:	Water	**Date Received:**	6/13/24
Sample Name:	MW20_06224	**Units:**	µg/L
Lab Code:	E2400685-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.826**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:08	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400335-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 10:17	440426	845357	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Analyzed:**	06/21/24
Sample Matrix:	Water	**Date Extracted:**	06/21/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	845357

	Lab Control Sample EQ2400335-02			Duplicate Lab Control Sample EQ2400335-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0934 J	0.100	93	0.0974 J	0.100	97	84-119	4	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0934**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:36	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400685
Project:	HS24060795	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0974**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:42	440426	845357	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
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843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

Method File: I:\LCMS01\DATA\20240611\202405611_ICAL.lcm
Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

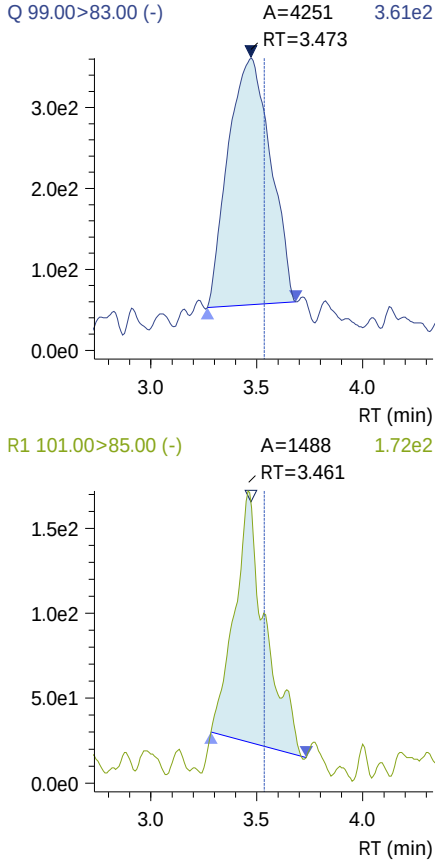
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

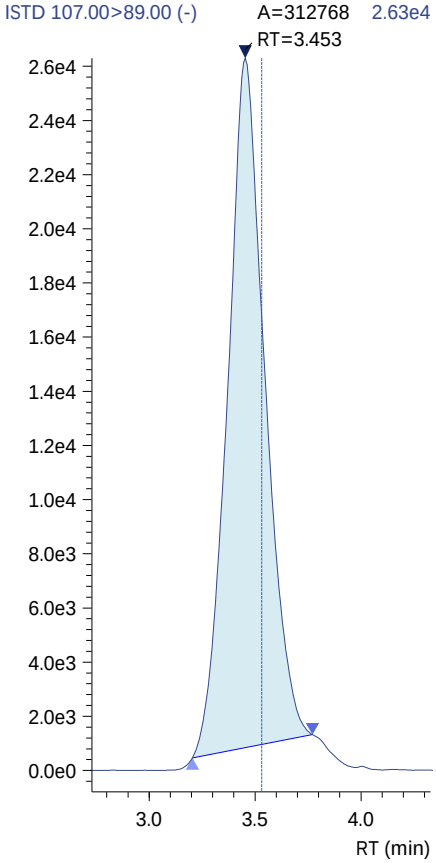
Perchlorate

Conc 0.0931
R#1 35.01 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

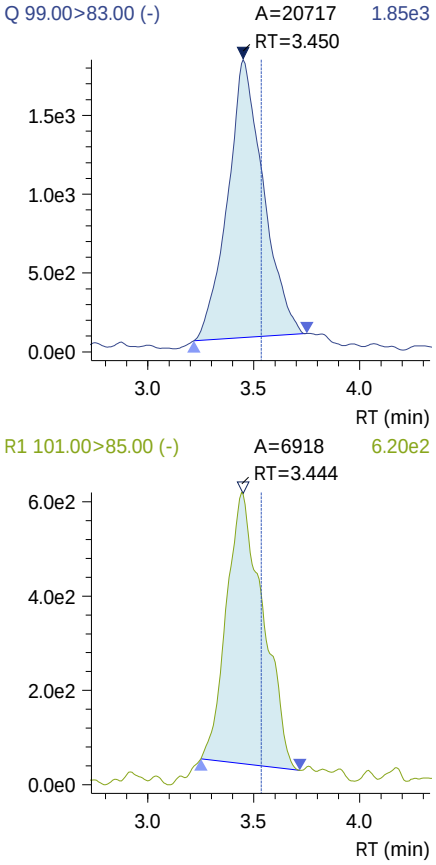
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

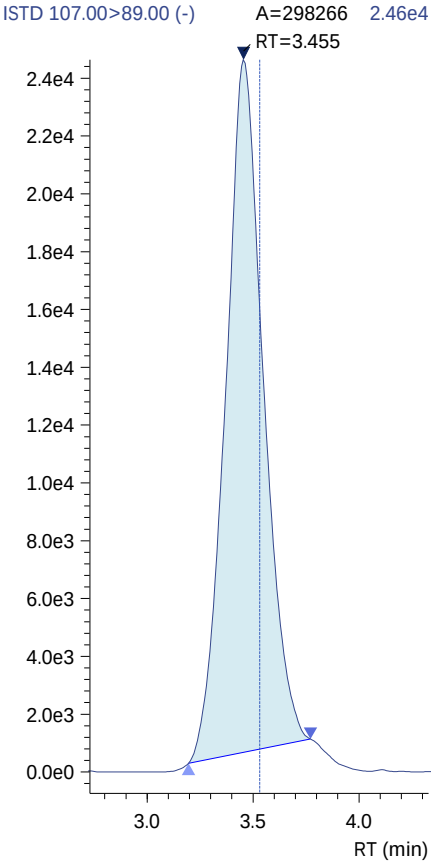
Perchlorate

Conc 0.4757
R#1 33.39 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

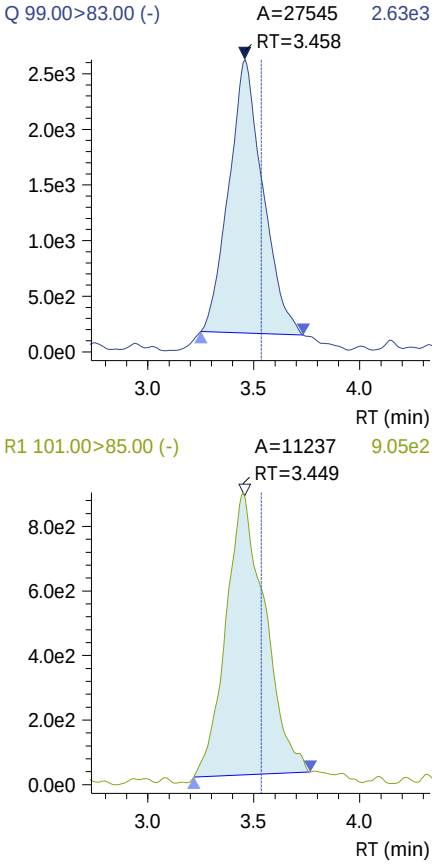
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

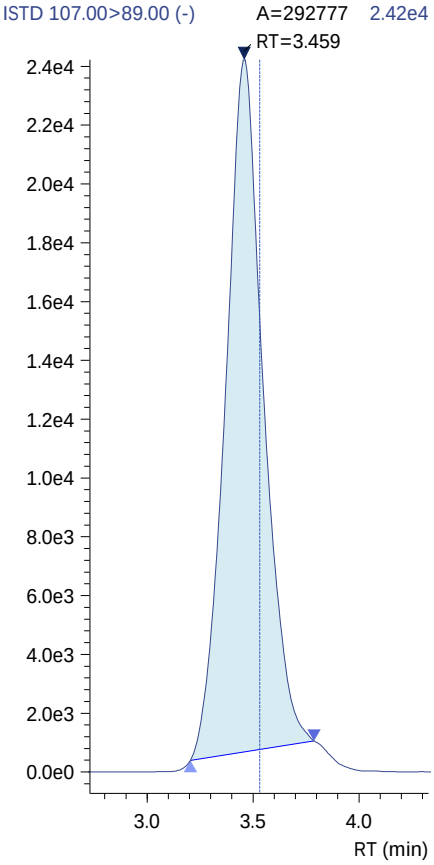
Perchlorate

Conc 0.6444
R#1 40.79 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

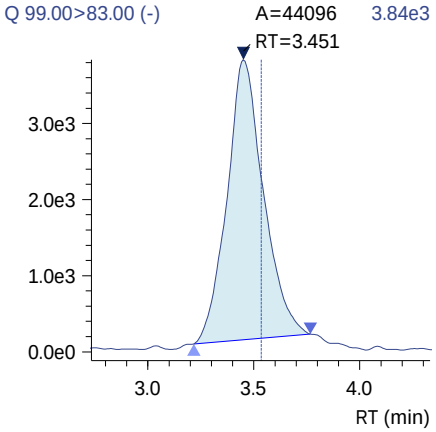
Perchlorate ICAL 4

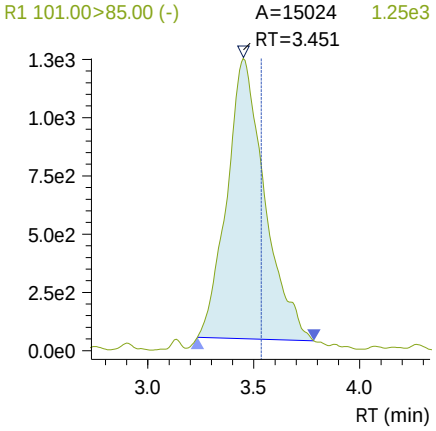
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

Perchlorate

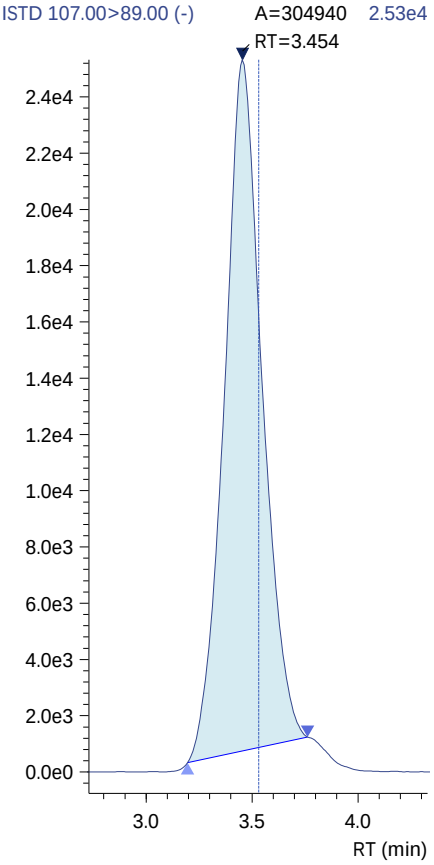
Conc 0.9904
R#1 34.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

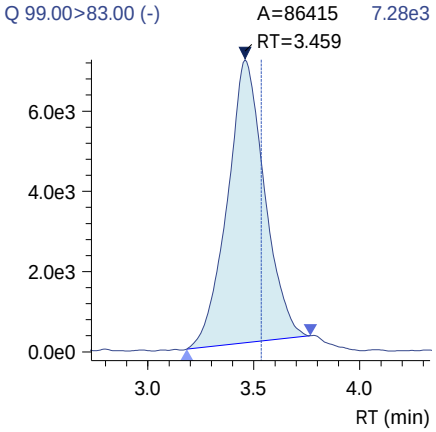
Perchlorate ICAL 5

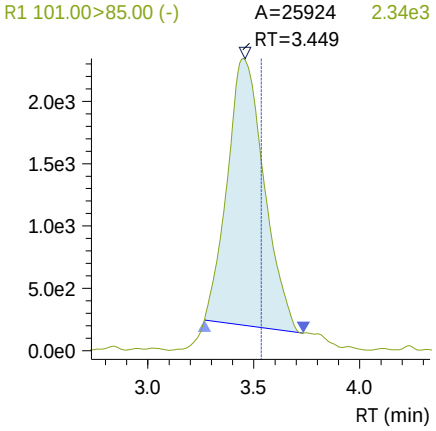
Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

Perchlorate

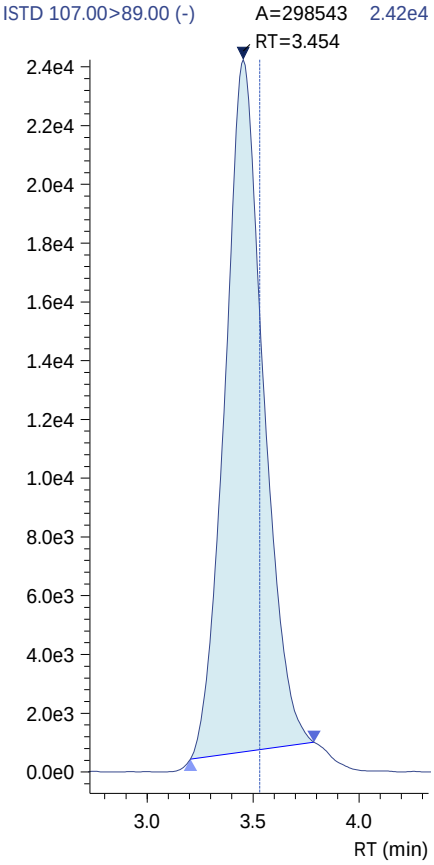
Conc 1.9825
R#1 30.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

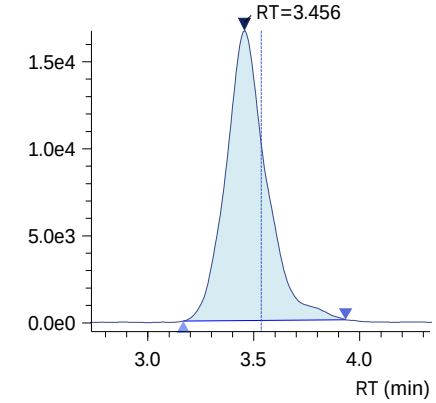
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

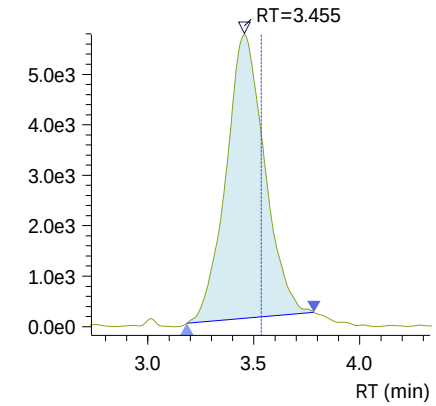
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4 RT=3.456



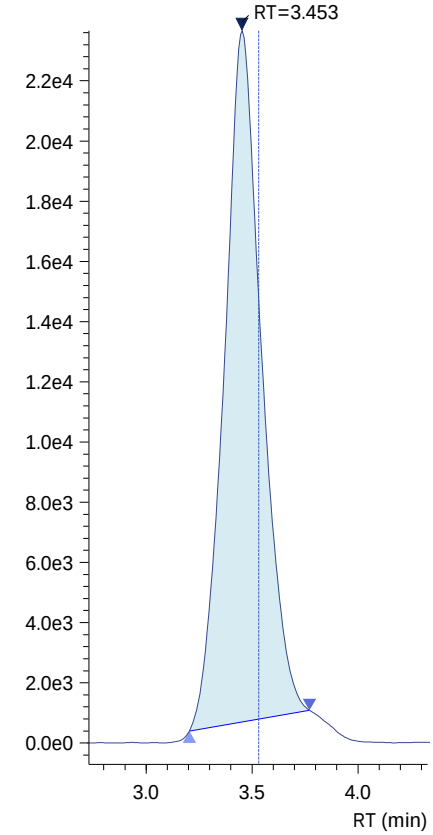
R1 101.00>85.00 (-) A=71270 5.79e3 RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4 RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

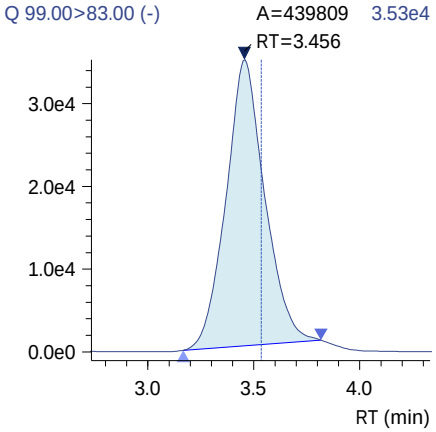
Perchlorate ICAL 7

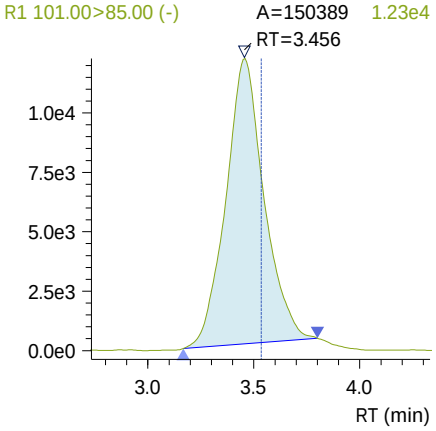
Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

Perchlorate

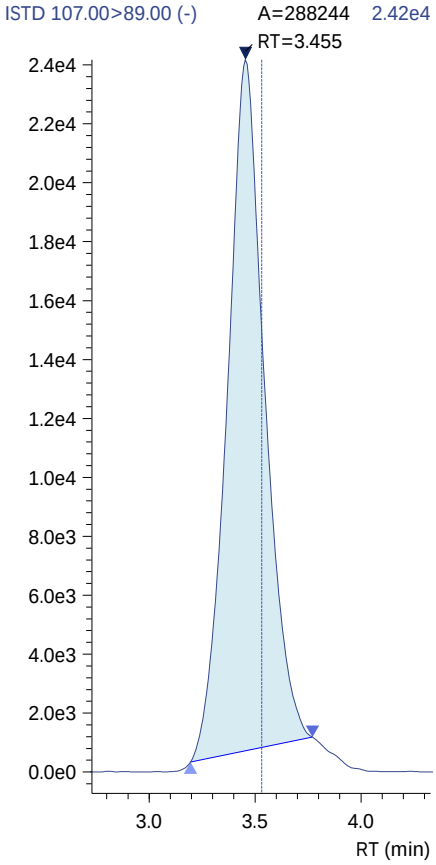
Conc 10.4505
R#1 34.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

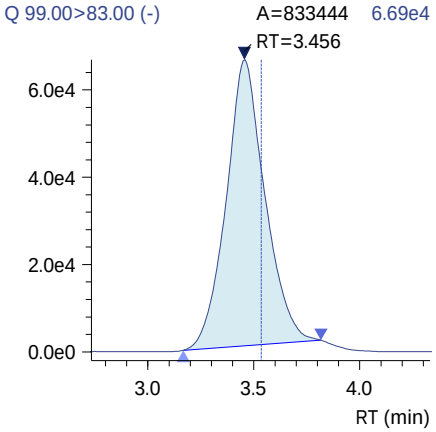
Perchlorate ICAL 8

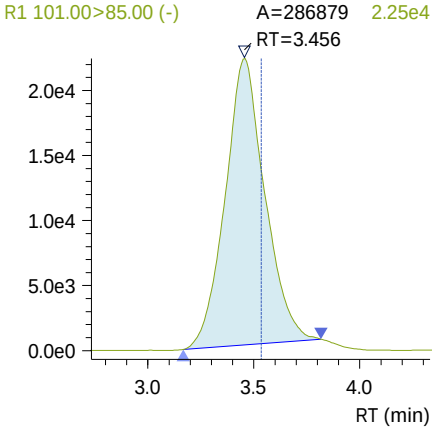
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9 364	ng/mL	101.00 >85.00	34.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

Perchlorate

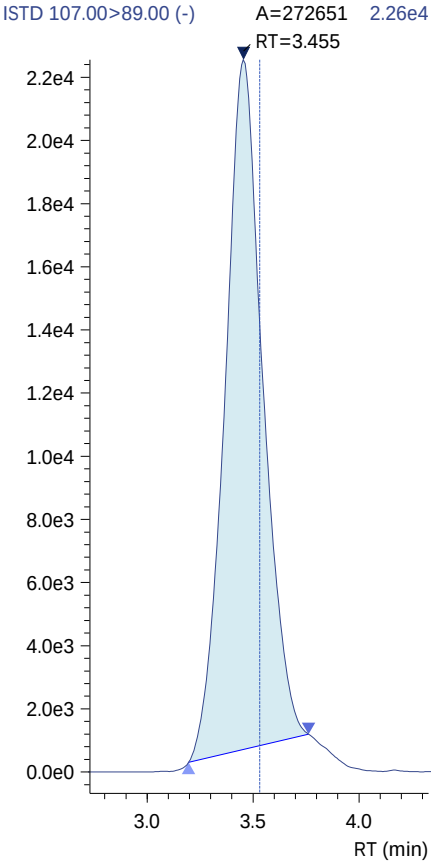
Conc 20.9364
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

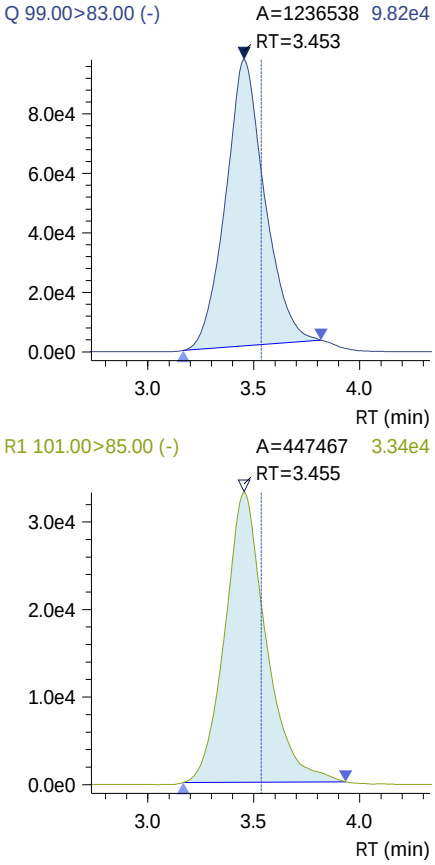
Perchlorate ICAL 9

Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365 38	276997	30.5 749	ng/mL	101.00 >85.00	36.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

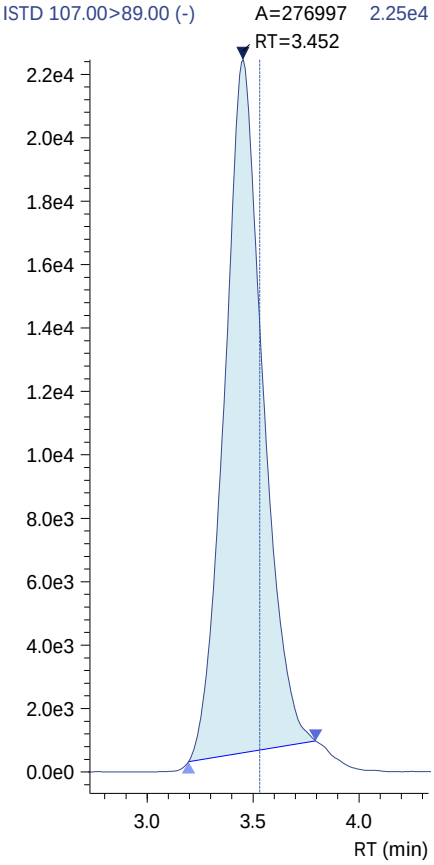
Perchlorate

Conc 30.5749
R#1 36.19 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

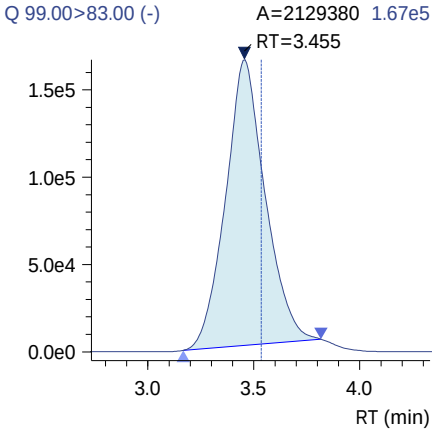
Perchlorate ICAL 10

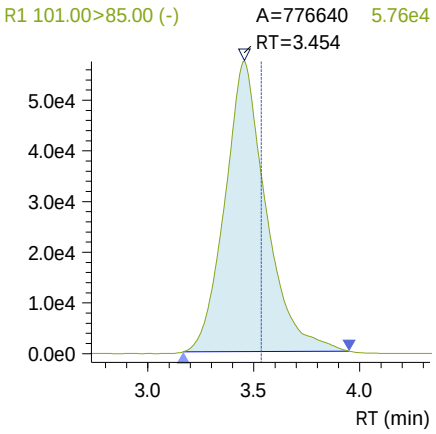
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

Perchlorate

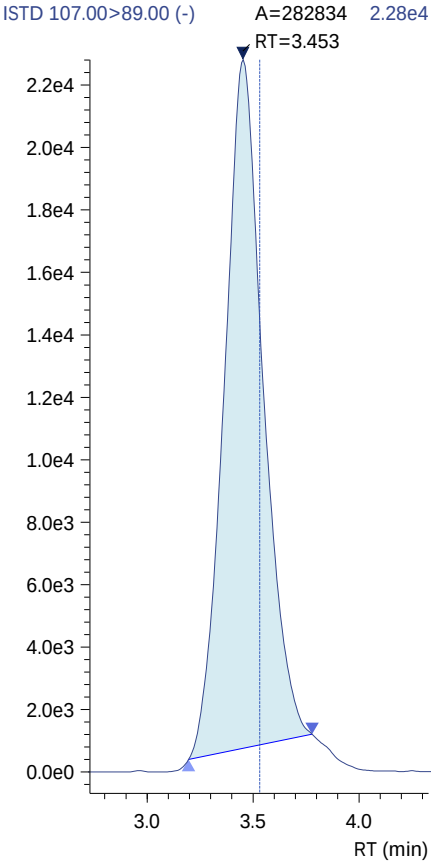
Conc 51.5649
R#1 36.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

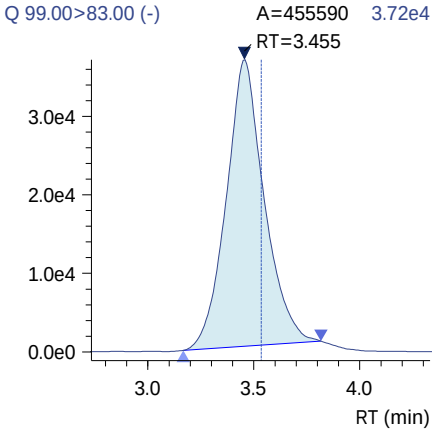
PerchlorateICV

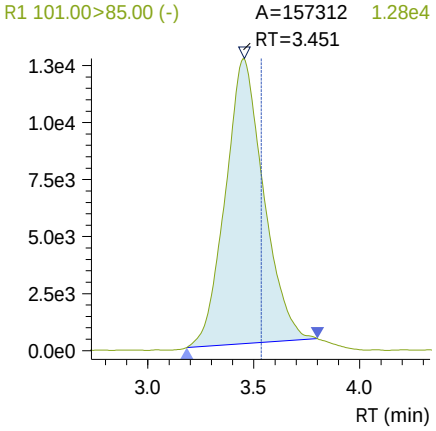
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2 823	ng/mL	101.00 >85.00	34.53	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

Perchlorate

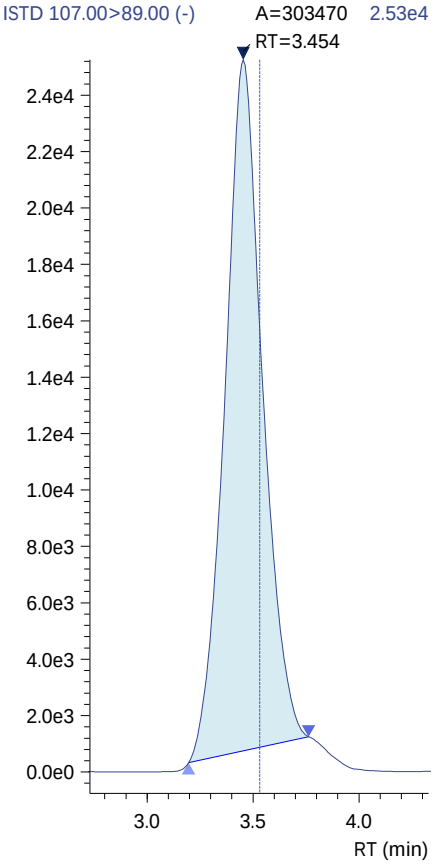
Conc 10.2823
R#1 34.53 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240621-001	IB	Perchlorate6850c.lcm	1x		6/21/2024 8:56
2	20240621-002	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:01
3	20240621-003	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:07
4	20240621-004	LODV	Perchlorate6850c.lcm	1x		6/21/2024 9:12
5	20240621-005	ICS	Perchlorate6850c.lcm	1x	DNU	6/21/2024 9:18
6	20240621-006	CCV	Perchlorate6850c.lcm	1x		6/21/2024 9:23
7	20240621-007	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:29
8	20240621-008	EQ2400335-01MB	Perchlorate6850c.lcm	1x		6/21/2024 10:17
9	20240621-009	EQ2400335-02LCS	Perchlorate6850c.lcm	1x		6/21/2024 12:36
10	20240621-010	EQ2400335-03DLCS	Perchlorate6850c.lcm	1x		6/21/2024 12:42
11	20240621-011	EQ2400335-04ICS	Perchlorate6850c.lcm	1x		6/21/2024 12:47
12	20240621-012	E2400687-007x10	Perchlorate6850c.lcm	10x		6/21/2024 12:53
13	20240621-013	E2400687-008x10	Perchlorate6850c.lcm	10x		6/21/2024 12:58
14	20240621-014	E2400687-009x10	Perchlorate6850c.lcm	10x		6/21/2024 13:04
15	20240621-015	EQ2400332-05MSx10	Perchlorate6850c.lcm	10x		6/21/2024 13:13
16	20240621-016	EQ2400332-06DMSx10	Perchlorate6850c.lcm	10x		6/21/2024 13:19
17	20240621-017	EQ2400335-05MS	Perchlorate6850c.lcm	1x		6/21/2024 13:24
18	20240621-018	EQ2400335-06DMS	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:30
19	20240621-019	CCV	Perchlorate6850c.lcm	1x		6/21/2024 13:36
20	20240621-020	IB	Perchlorate6850c.lcm	1x		6/21/2024 13:41
21	20240621-021	EQ2400335-06DMS	Perchlorate6850c.lcm	1x		6/21/2024 13:47
22	20240621-022	E2400702-001	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:52
23	20240621-023	E2400702-002	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:58
24	20240621-024	E2400706-001	Perchlorate6850c.lcm	1x		6/21/2024 14:03
25	20240621-025	E2400706-002	Perchlorate6850c.lcm	1x		6/21/2024 14:09
26	20240621-026	E2400685-001	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:14
27	20240621-027	E2400685-002	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:20
28	20240621-028	E2400685-003	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:25
29	20240621-029	E2400685-004	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:31
30	20240621-030	E2400685-005	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:37
31	20240621-031	CCV	Perchlorate6850c.lcm	1x		6/21/2024 14:42
32	20240621-032	IB	Perchlorate6850c.lcm	1x		6/21/2024 14:48
33	20240621-033	E2400685-006	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:57
34	20240621-034	E2400685-007	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:02
35	20240621-035	E2400685-008	Perchlorate6850c.lcm	1x		6/21/2024 15:08
36	20240621-036	E2400691-001	Perchlorate6850c.lcm	1x		6/21/2024 15:13
37	20240621-037	E2400691-002	Perchlorate6850c.lcm	1x		6/21/2024 15:19
38	20240621-038	E2400691-003	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:24
39	20240621-039	E2400691-004	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:30
40	20240621-040	E2400691-005	Perchlorate6850c.lcm	1x		6/21/2024 15:35
41	20240621-041	E2400691-006	Perchlorate6850c.lcm	1x		6/21/2024 15:41

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
42	20240621-042	E2400691-007	Perchlorate6850c.lcm	1x		6/21/2024 15:46
43	20240621-043	CCV	Perchlorate6850c.lcm	1x		6/21/2024 15:52
44	20240621-044	IB	Perchlorate6850c.lcm	1x		6/21/2024 15:57
45	20240621-045	E2400691-008	Perchlorate6850c.lcm	1x		6/21/2024 16:03
46	20240621-046	E2400702-001x10	Perchlorate6850c.lcm	10x		6/21/2024 16:09
47	20240621-047	E2400702-002x10	Perchlorate6850c.lcm	10x		6/21/2024 16:14
48	20240621-048	E2400685-002x100	Perchlorate6850c.lcm	100x		6/21/2024 16:20
49	20240621-049	E2400685-003x100	Perchlorate6850c.lcm	100x		6/21/2024 16:25
50	20240621-050	E2400685-004x100	Perchlorate6850c.lcm	100x		6/21/2024 16:31
51	20240621-051	E2400685-005x200	Perchlorate6850c.lcm	200x		6/21/2024 16:36
52	20240621-052	CCV	Perchlorate6850c.lcm	1x		6/21/2024 16:42
53	20240621-053	IB	Perchlorate6850c.lcm	1x		6/21/2024 16:47

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240624-001	IB	Perchlorate6850c.lcm	1x		6/24/2024 8:53
2	20240624-002	IB	Perchlorate6850c.lcm	1x		6/24/2024 8:58
3	20240624-003	IB	Perchlorate6850c.lcm	1x		6/24/2024 9:04
4	20240624-004	LODV	Perchlorate6850c.lcm	1x		6/24/2024 9:09
5	20240624-005	ICS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 9:15
6	20240624-006	CCV	Perchlorate6850c.lcm	1x		6/24/2024 9:20
7	20240624-007	IB	Perchlorate6850c.lcm	1x		6/24/2024 10:20
8	20240624-008	EQ2400343-001MB	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:25
9	20240624-009	EQ2400343-02LCS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:31
10	20240624-010	EQ2400343-03DLCS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:36
11	20240624-011	EQ2400343-04ICS	Perchlorate6850c.lcm	1x	DNU	6/24/2024 10:42
12	20240624-012	E2400685-001X10	Perchlorate6850c.lcm	10x		6/24/2024 10:47
13	20240624-013	E2400685-006X100	Perchlorate6850c.lcm	100x		6/24/2024 10:53
14	20240624-014	E2400685-007X500	Perchlorate6850c.lcm	500x		6/24/2024 10:59
15	20240624-015	E2400691-003X100	Perchlorate6850c.lcm	100x		6/24/2024 11:04
16	20240624-016	E2400691-004X10	Perchlorate6850c.lcm	10x		6/24/2024 11:10
17	20240624-017	CCV	Perchlorate6850c.lcm	1x		6/24/2024 11:15
18	20240624-018	IB	Perchlorate6850c.lcm	1x		6/24/2024 11:21
19	20240624-019	EQ2400343-004MB	Perchlorate6850c.lcm	1x		6/24/2024 13:40
20	20240624-020	EQ2400343-02LCS	Perchlorate6850c.lcm	1x		6/24/2024 13:46
21	20240624-021	EQ2400343-03DLCS	Perchlorate6850c.lcm	1x		6/24/2024 13:57
22	20240624-022	EQ2400343-05ICS	Perchlorate6850c.lcm	1x		6/24/2024 14:03
23	20240624-023	EQ2400345-001MB	Perchlorate6850c.lcm	1x		6/24/2024 14:08
24	20240624-024	EQ2400345-02LCS	Perchlorate6850c.lcm	1x		6/24/2024 14:14
25	20240624-025	EQ2400345-03DLCS	Perchlorate6850c.lcm	1x		6/24/2024 14:19
26	20240624-026	EQ2400345-04ICS	Perchlorate6850c.lcm	1x		6/24/2024 14:25
27	20240624-027	E2400710-001	Perchlorate6850c.lcm	1x		6/24/2024 14:30
28	20240624-028	E2400696-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 14:36
29	20240624-029	CCV	Perchlorate6850c.lcm	1x		6/24/2024 14:41
30	20240624-030	IB	Perchlorate6850c.lcm	1x		6/24/2024 14:47
31	20240624-031	E2400696-002	Perchlorate6850c.lcm	1x	DNU	6/24/2024 14:52
32	20240624-032	E2400696-003	Perchlorate6850c.lcm	1x		6/24/2024 14:58
33	20240624-033	E2400696-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:03
34	20240624-034	E2400696-005	Perchlorate6850c.lcm	1x		6/24/2024 15:09
35	20240624-035	E2400696-006	Perchlorate6850c.lcm	1x		6/24/2024 15:14
36	20240624-036	E2400696-007	Perchlorate6850c.lcm	1x		6/24/2024 15:20
37	20240624-037	E2400696-008	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:25
38	20240624-038	E2400696-009	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:31
39	20240624-039	E2400696-010	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:36
40	20240624-040	E2400715-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:42
41	20240624-041	CCV	Perchlorate6850c.lcm	1x		6/24/2024 15:47

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
42	20240624-042	IB	Perchlorate6850c.lcm	1x		6/24/2024 15:53
43	20240624-043	E2400715-002	Perchlorate6850c.lcm	1x	DNU	6/24/2024 15:59
44	20240624-044	E2400715-003	Perchlorate6850c.lcm	1x		6/24/2024 16:04
45	20240624-045	E2400715-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:10
46	20240624-046	E2400715-005	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:15
47	20240624-047	E2400715-006	Perchlorate6850c.lcm	1x		6/24/2024 16:21
48	20240624-048	E2400715-007	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:26
49	20240624-049	E2400715-008	Perchlorate6850c.lcm	1x		6/24/2024 16:32
50	20240624-050	E2400716-001	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:37
51	20240624-051	E2400716-002	Perchlorate6850c.lcm	1x		6/24/2024 16:43
52	20240624-052	E2400716-003	Perchlorate6850c.lcm	1x	DNU	6/24/2024 16:48
53	20240624-053	CCV	Perchlorate6850c.lcm	1x		6/24/2024 16:54
54	20240624-054	IB	Perchlorate6850c.lcm	1x		6/24/2024 16:59
55	20240624-055	E2400716-004	Perchlorate6850c.lcm	1x	DNU	6/24/2024 17:05
56	20240624-056	E2400716-005	Perchlorate6850c.lcm	1x		6/24/2024 17:11
57	20240624-057	E2400716-006	Perchlorate6850c.lcm	1x		6/24/2024 17:16
58	20240624-058	E2400716-007	Perchlorate6850c.lcm	1x		6/24/2024 17:22
59	20240624-059	E2400716-008	Perchlorate6850c.lcm	1x		6/24/2024 17:27
60	20240624-060	E2400716-009	Perchlorate6850c.lcm	1x		6/24/2024 17:33
61	20240624-061	E2400716-010	Perchlorate6850c.lcm	1x		6/24/2024 17:38
62	20240624-062	EQ2400345-05MS	Perchlorate6850c.lcm	1x		6/24/2024 17:44
63	20240624-063	EQ2400345-06DMS	Perchlorate6850c.lcm	1x		6/24/2024 17:49
64	20240624-064	E2400721-001	Perchlorate6850c.lcm	1x		6/24/2024 17:55
65	20240624-065	CCV	Perchlorate6850c.lcm	1x		6/24/2024 18:00
66	20240624-066	IB	Perchlorate6850c.lcm	1x		6/24/2024 18:06
67	20240624-067	E2400721-002	Perchlorate6850c.lcm	1x		6/24/2024 18:11
68	20240624-068	E2400721-003	Perchlorate6850c.lcm	1x		6/24/2024 18:17
69	20240624-069	CCV	Perchlorate6850c.lcm	1x		6/24/2024 18:22
70	20240624-070	IB	Perchlorate6850c.lcm	1x		6/24/2024 18:28

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/21/24 09:23

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-006
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-01
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-01	179,641	3.45
Method Blank	EQ2400335-01	176,581	3.45
Lab Control Sample	EQ2400335-02	212,039	3.45
Duplicate Lab Control Sample	EQ2400335-03	210,352	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/21/24 13:36

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-019
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-02
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-02	205,946	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/21/24 14:42

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-031
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-03
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-03	211,144	3.44
MW20_06224	E2400685-008	295,185	3.43

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/21/24 15:52

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-043
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-04
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-04	202,336	3.44
MW22_061224	E2400685-002	188,538	3.44
MW22_06224_a	E2400685-003	148,863	3.44
MW6_06224	E2400685-004	196,515	3.44
109_06224	E2400685-005	190,976	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/21/24 16:42

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-052
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-05
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-05	207,383	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/24/24 09:20

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240624\20240624-006
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400349-01
Analysis Lot: 845372
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400349-01	198,308	3.45
18CPTMW06_06224	E2400685-001	246,928	3.45
MW21_06224	E2400685-006	214,616	3.45
18CPTMW22SW_06224	E2400685-007	214,535	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/24/24 11:15

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240624\20240624-017
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400349-02
Analysis Lot: 845372
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400349-02	223,642	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-006

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.83	0.1460	0.1436	-1.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-019

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1460	0.1482	1.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-031

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.32	0.1460	0.1361	-6.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-043

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.46	0.1460	0.1382	-5.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-052

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.16	0.1460	0.1338	-8.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/24/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240624\20240624-006

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845372
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.41	0.1460	0.1374	-5.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060795

Service Request: E2400685
Date Analyzed: 6/24/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240624\20240624-017

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845372
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.91	0.1460	0.1447	-0.9	NA	± 15 %	Average RF

Insight Report

Printed at 6/25/2024 12:31:04 PM

Method File: I:\LCMS01\DATA\20240621\20240621.lcm
Project File: I:\LCMS01\DATA\20240621\20240621.damlp

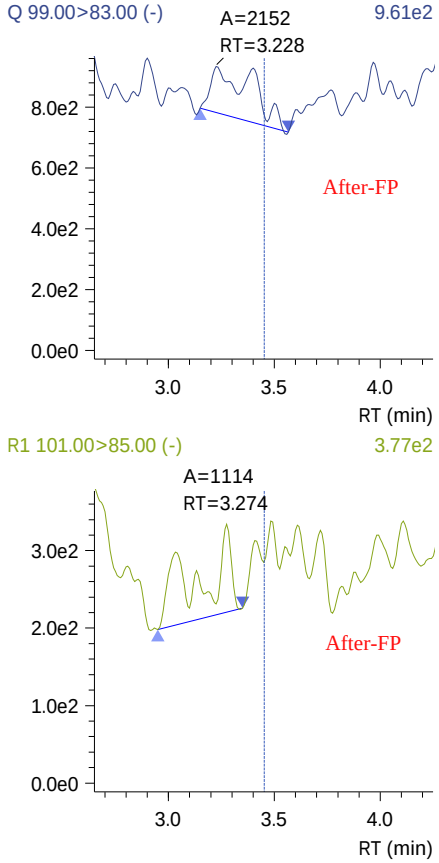
IB

Sample ID: IB
Date Acquired: 6/21/2024 9:07:00 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	173255	----	ng/mL	101.00 >85.00	51.76	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.454	173255	173255	1.0000	ng/mL	----	----	

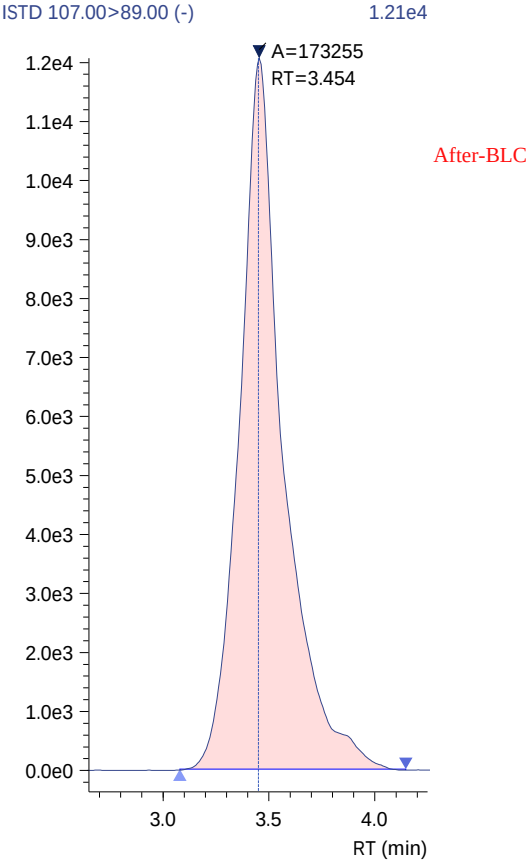
Perchlorate

Conc ----
R#1 51.76 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

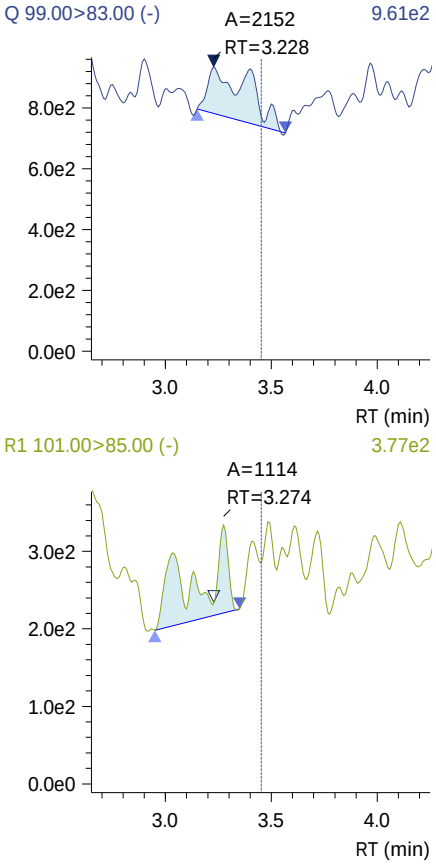
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Project File: I:\LCMS01\DATA\20240621\20240621.damlp

IB

Sample ID: IB
Date Acquired: 6/21/2024 9:07:00 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

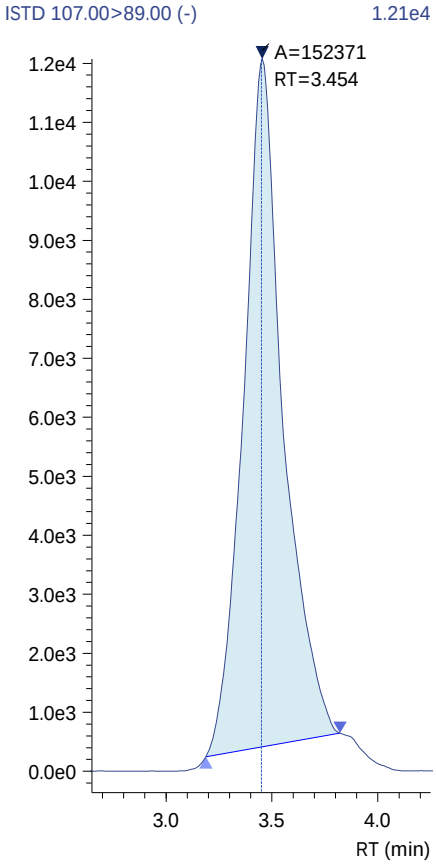
Perchlorate

Conc 0.0967
R#1 51.76 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:04 PM

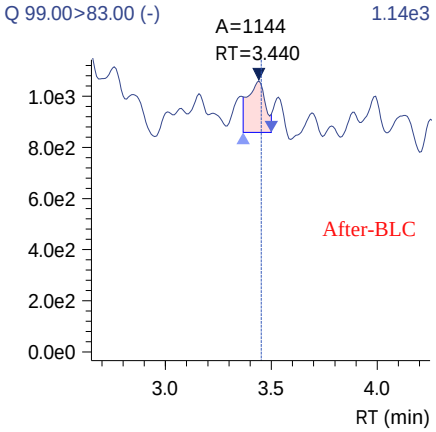
LODV

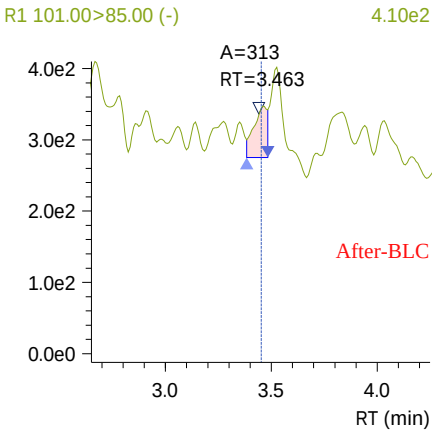
Sample ID: LODV
Date Acquired: 6/21/2024 9:12:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.440	1144	164052	0.0477	ng/mL	101.00 >85.00	27.42	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.457	164052	164052	1.0000	ng/mL	----	----	

Perchlorate

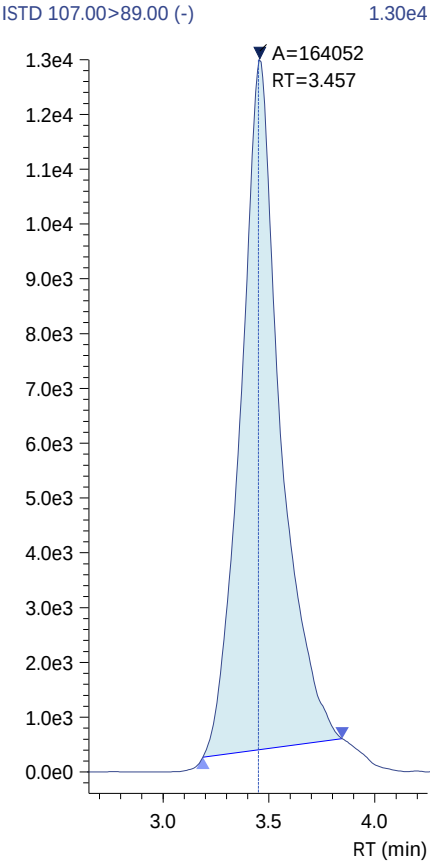
Conc 0.0477
R#1 27.42 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

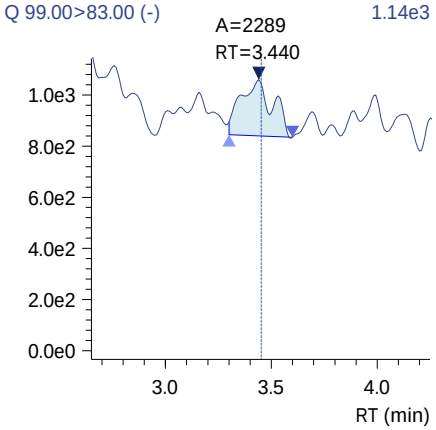
LODV

Sample ID: LODV
Date Acquired: 6/21/2024 9:12:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

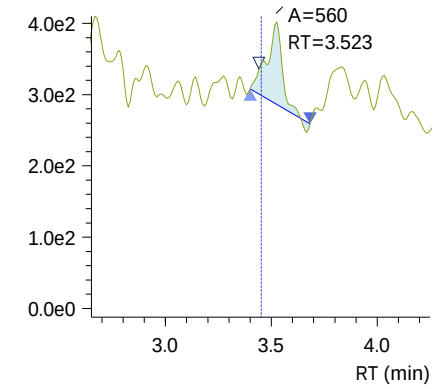
Perchlorate

Conc 0.0956
R#1 24.48 (35.24)

Q 99.00>83.00 (-) 1.14e3



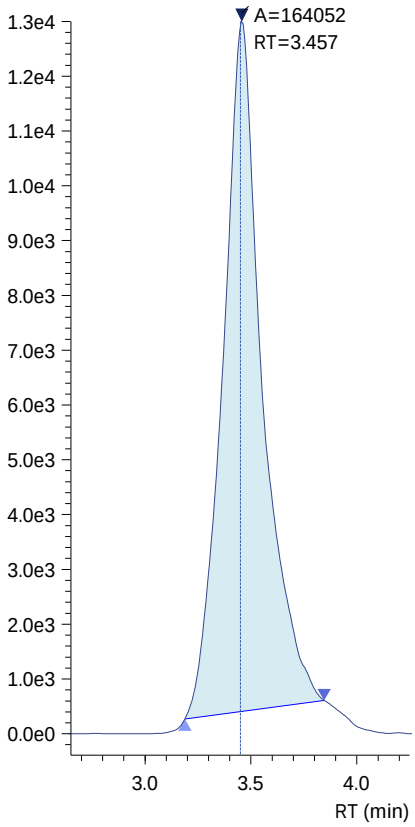
R1 101.00>85.00 (-) 4.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.30e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

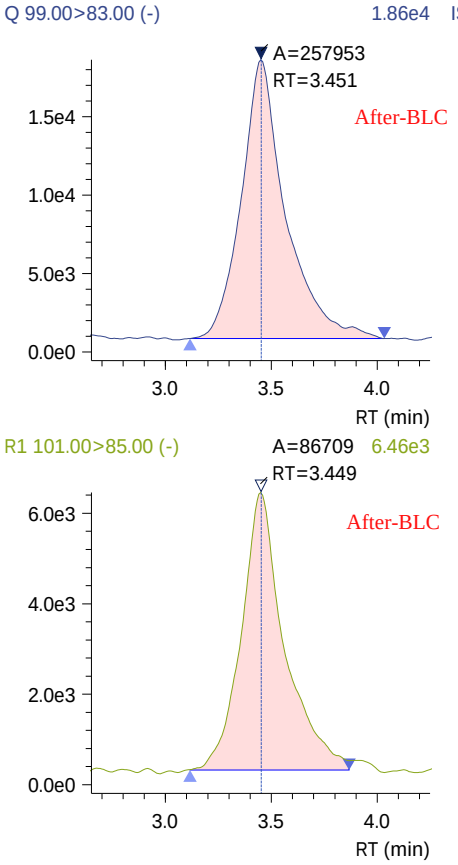
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 9:23:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.451	257953	179641	9.8348	ng/mL	101.00 >85.00	33.61	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	179641	179641	1.0000	ng/mL	----	----	

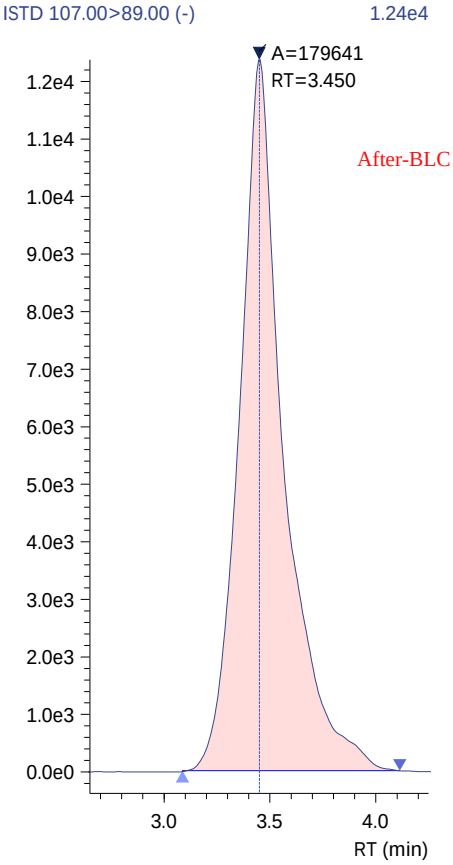
Perchlorate

Conc 9.8348
R#1 33.61 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

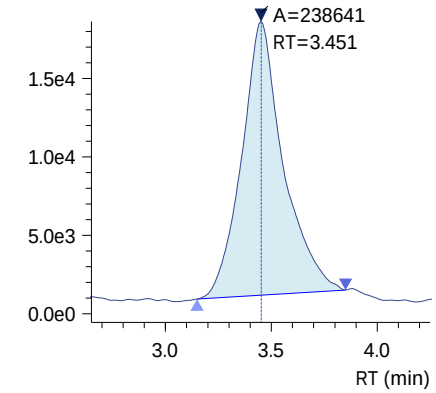
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 9:23:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

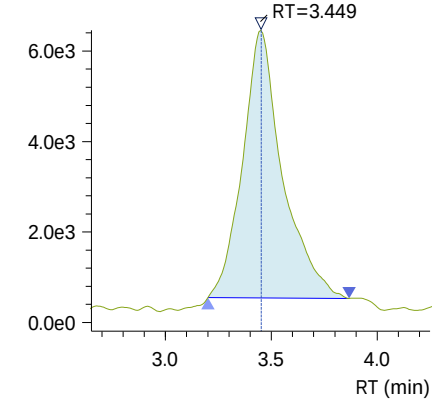
Perchlorate

Conc 10.3651
R#1 32.58 (35.24)

Q 99.00>83.00 (-) 1.86e4



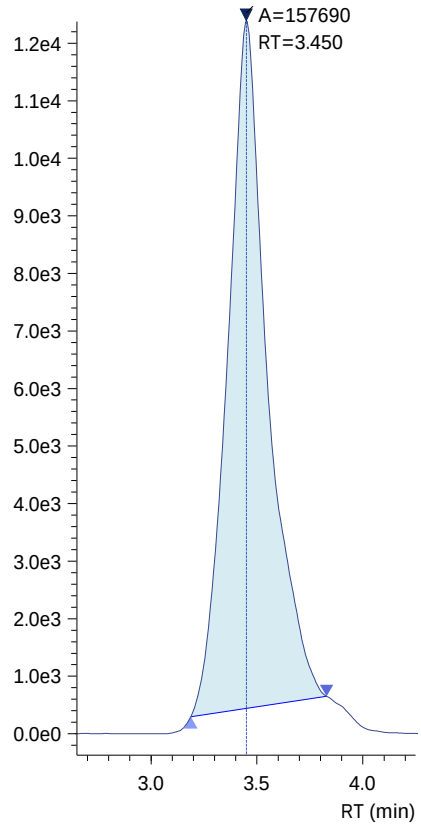
R1 101.00>85.00 (-) A=77739 6.46e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

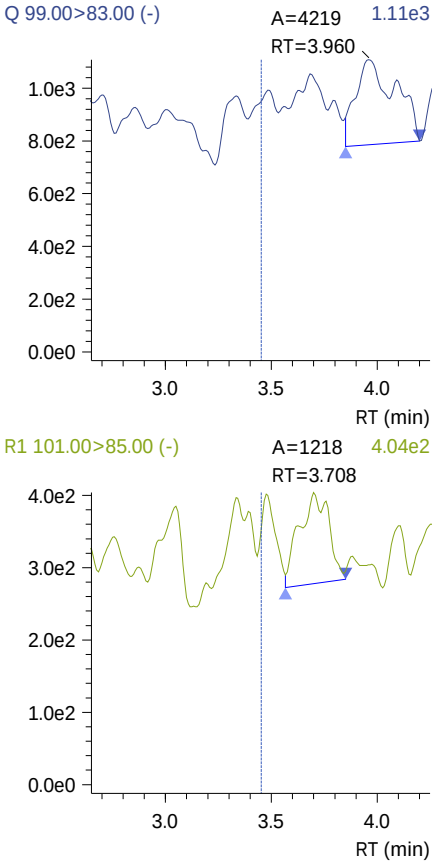
IB

Sample ID: IB
Date Acquired: 6/21/2024 9:29:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	179856	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	179856	179856	1.0000	ng/mL	----	----	

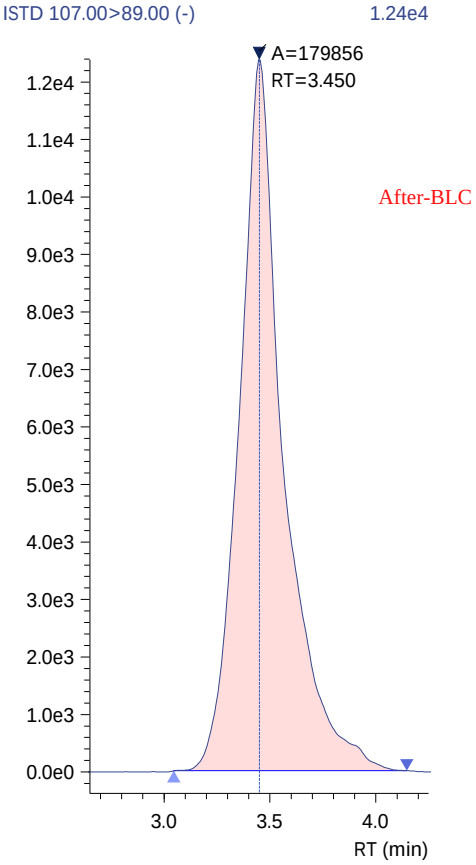
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

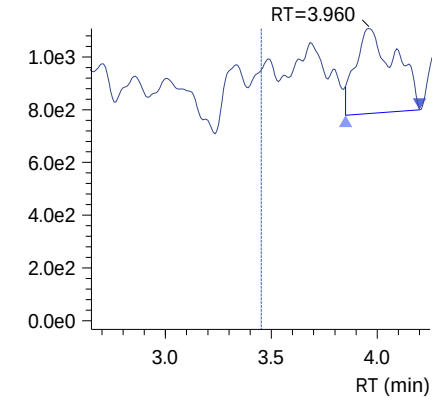
IB

Sample ID: IB
Date Acquired: 6/21/2024 9:29:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

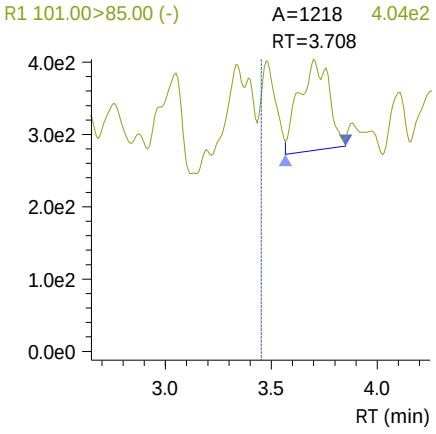
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=4219 1.11e3



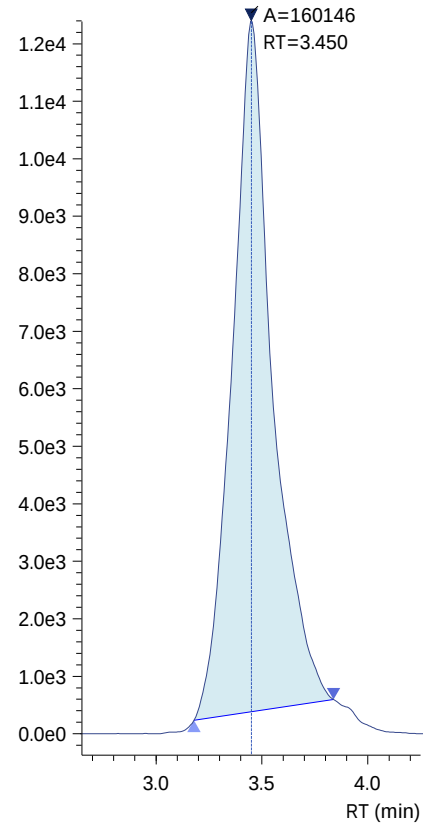
R1 101.00>85.00 (-) A=1218 4.04e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

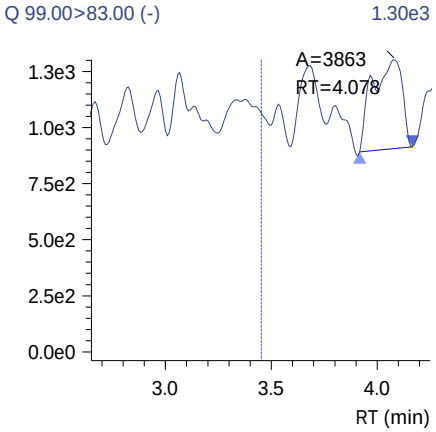
EQ2400335-01MB

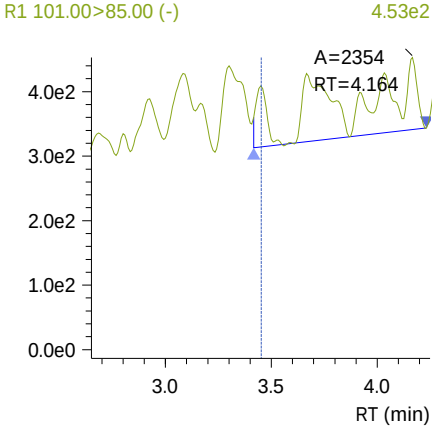
Sample ID: EQ2400335-01MB
Date Acquired: 6/21/2024 10:17:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	176581	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.449	176581	176581	1.0000	ng/mL	----	----	

Perchlorate

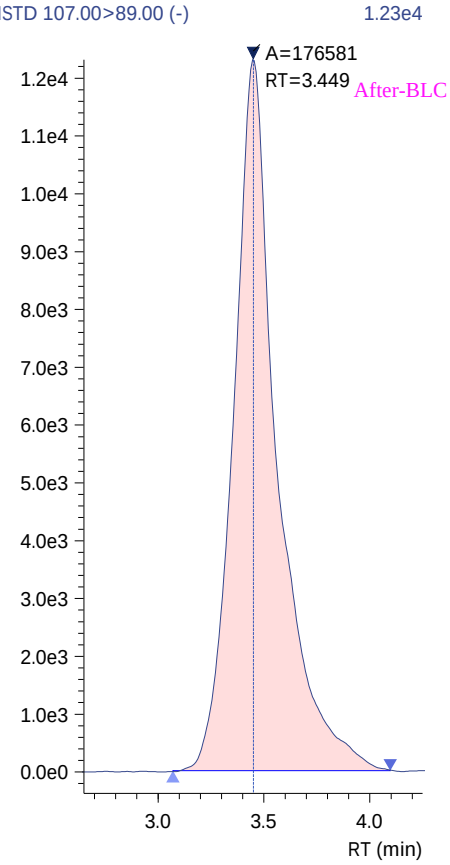
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

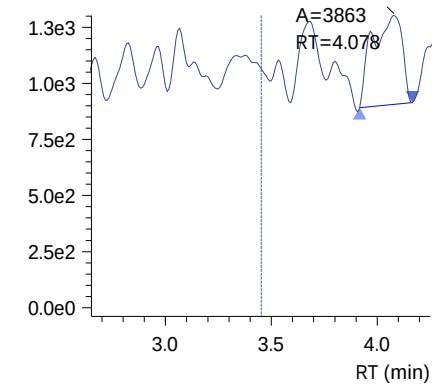
EQ2400335-01MB

Sample ID: EQ2400335-01MB
Date Acquired: 6/21/2024 10:17:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 3

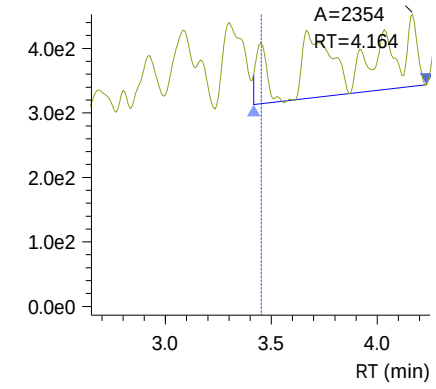
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.30e3



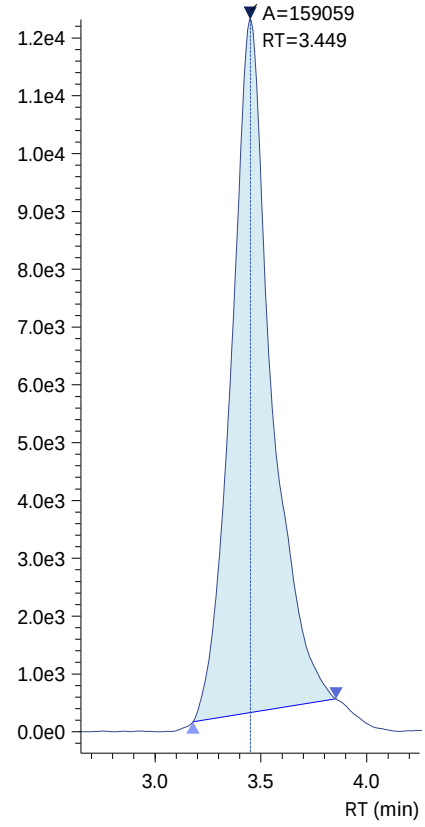
R1 101.00>85.00 (-) 4.53e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.23e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

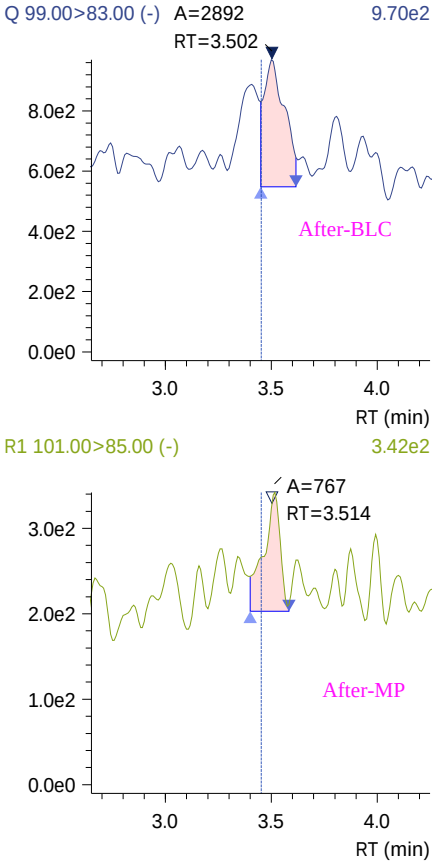
EQ2400335-02LCS

Sample ID: EQ2400335-02LCS
Date Acquired: 6/21/2024 12:36:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.502	2892	212039	0.0934	ng/mL	101.00 >85.00	26.52	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.445	212039	212039	1.0000	ng/mL	----	----	

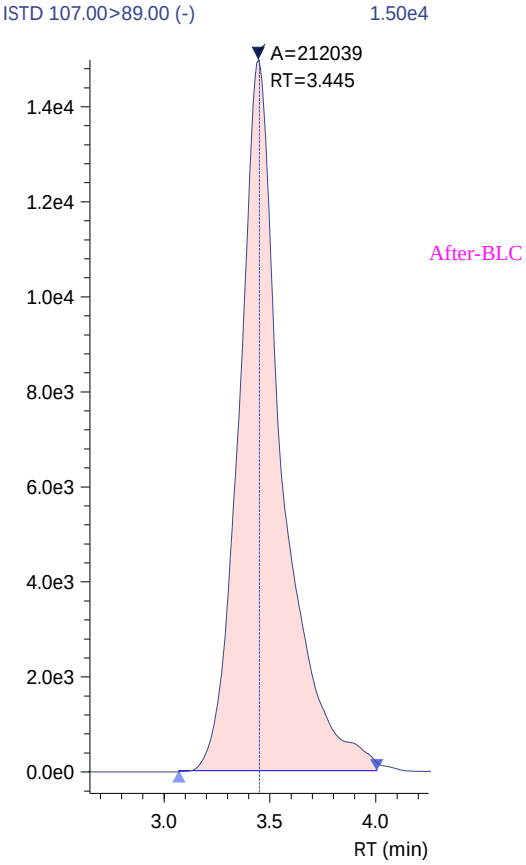
Perchlorate

Conc 0.0934
R#1 26.52 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

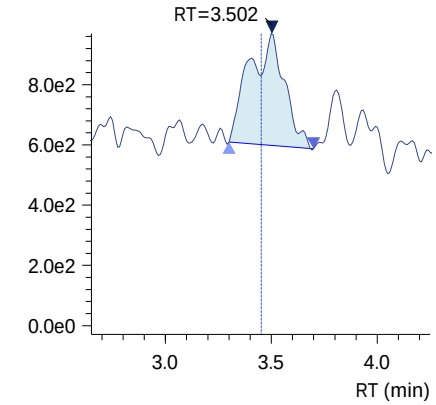
EQ2400335-02LCS

Sample ID: EQ2400335-02LCS
Date Acquired: 6/21/2024 12:36:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 3

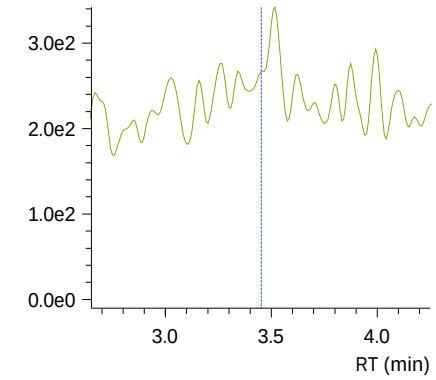
Perchlorate

Conc 0.1556
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=4308 9.70e2



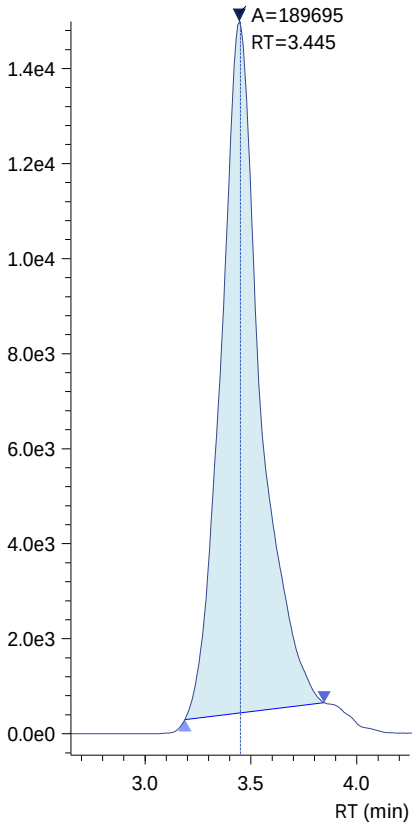
R1 101.00>85.00 (-) 3.42e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

EQ2400335-03DLCS

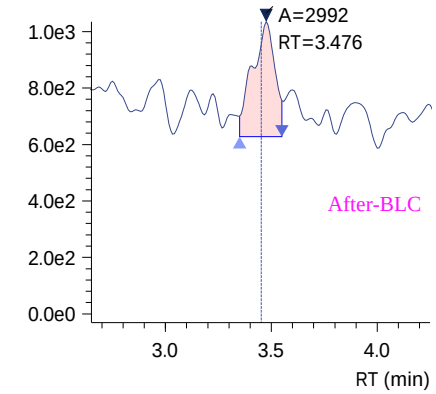
Sample ID: EQ2400335-03DLCS
Date Acquired: 6/21/2024 12:42:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.476	2992	210352	0.0974	ng/mL	101.00 >85.00	31.05	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.444	210352	210352	1.0000	ng/mL	----	----	

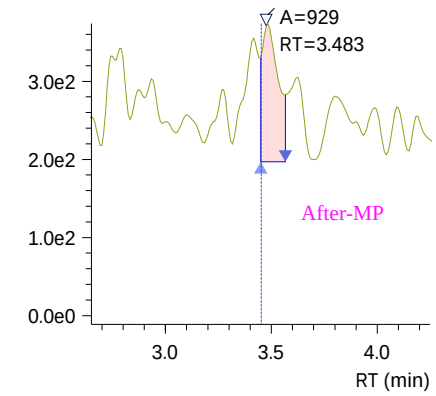
Perchlorate

Conc 0.0974
R#1 31.05 (35.24)

Q 99.00>83.00 (-) 1.04e3



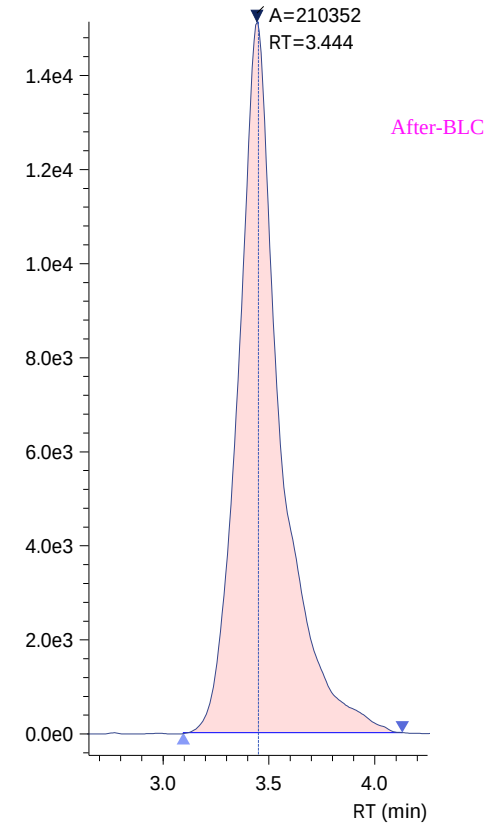
R1 101.00>85.00 (-) 3.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.51e4



Insight Report

Printed at 6/26/2024 11:50:37 AM

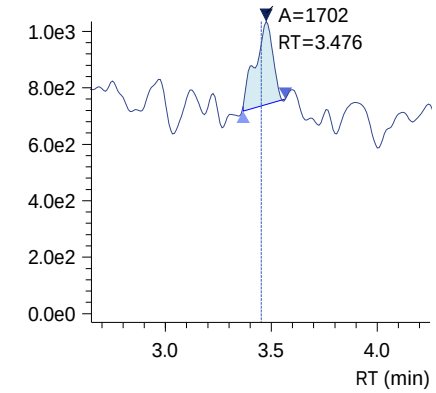
EQ2400335-03DLCS

Sample ID: EQ2400335-03DLCS
Date Acquired: 6/21/2024 12:42:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 3

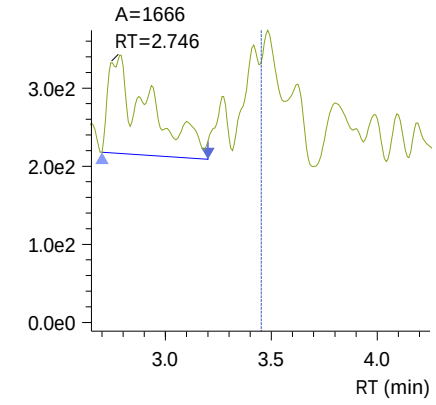
Perchlorate

Conc 0.0625
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.04e3



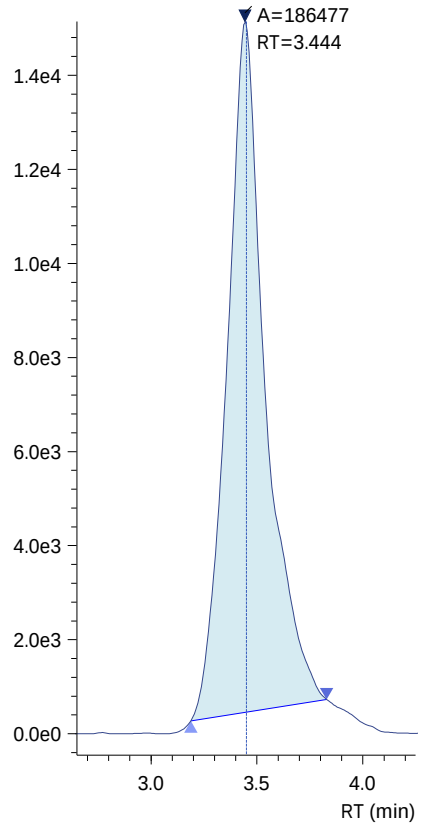
R1 101.00>85.00 (-) 3.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.51e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

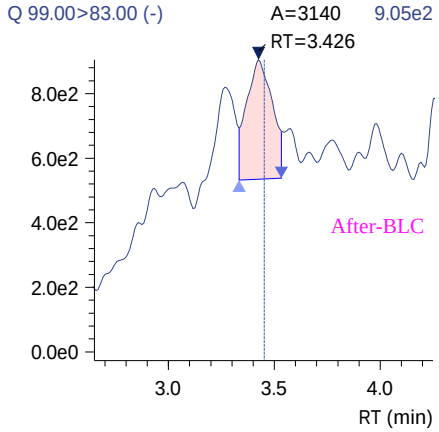
EQ2400335-04ICS

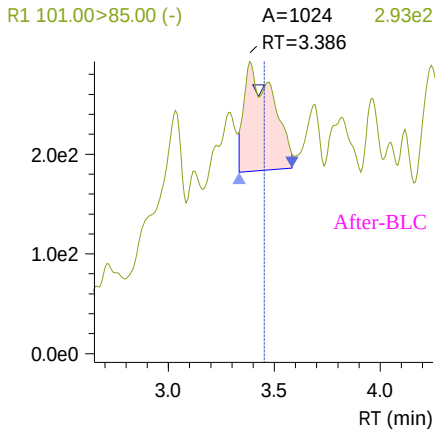
Sample ID: EQ2400335-04ICS
Date Acquired: 6/21/2024 12:47:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.426	3140	203937	0.1055	ng/mL	101.00 >85.00	32.61	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.443	203937	203937	1.0000	ng/mL	----	----	

Perchlorate

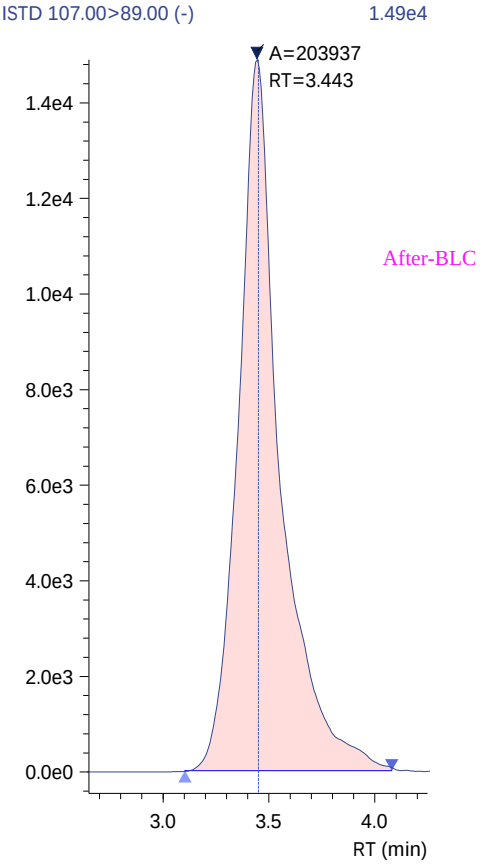
Conc 0.1055
R#1 32.61 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

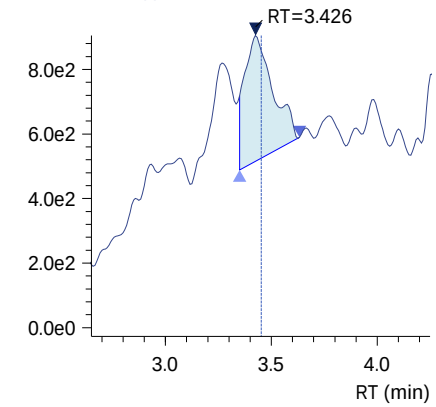
EQ2400335-04ICS

Sample ID: EQ2400335-04ICS
Date Acquired: 6/21/2024 12:47:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 3

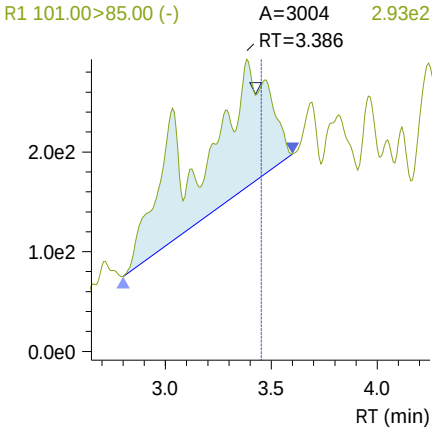
Perchlorate

Conc 0.1361
R#1 83.13 (35.24)

Q 99.00>83.00 (-) A=3614 9.05e2



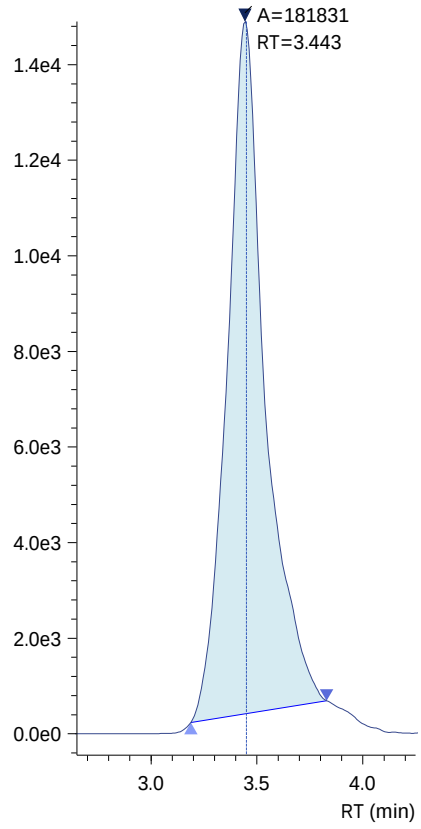
R1 101.00>85.00 (-) A=3004 2.93e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

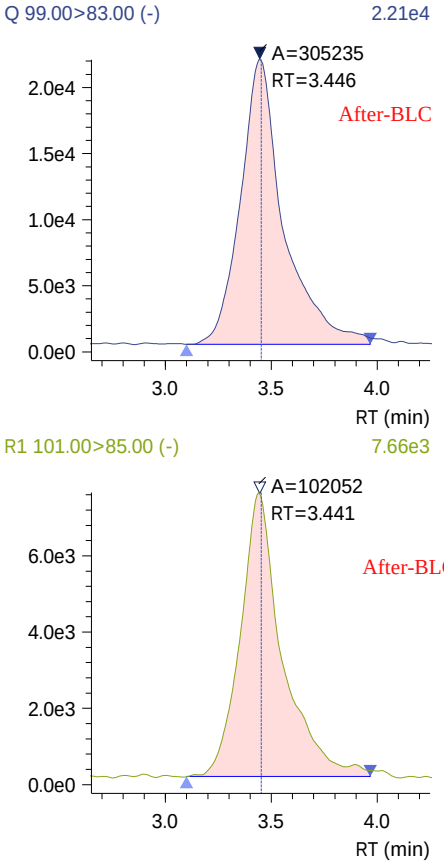
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 1:36:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.446	3052 35	205946	10.1 511	ng/mL	101.00 >85.00	33.43	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.443	2059 46	205946	1.0000	ng/mL	----	----	

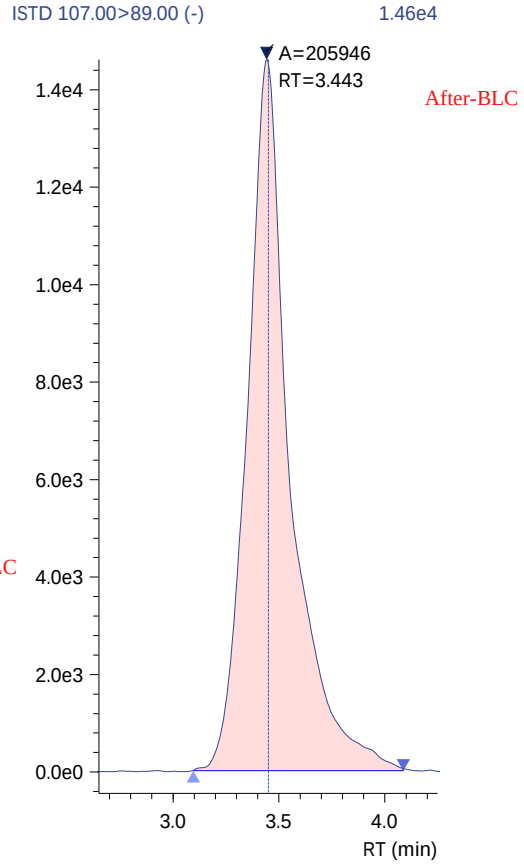
Perchlorate

Conc 10.1511
R#1 33.43 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

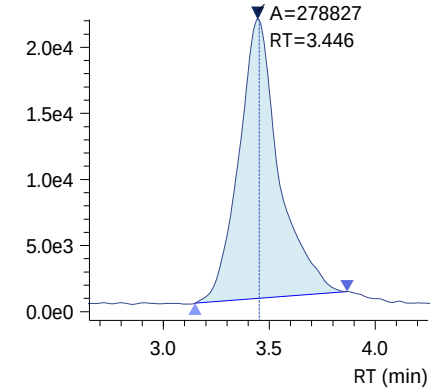
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 1:36:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

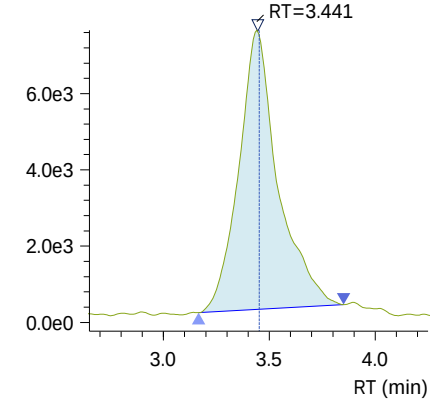
Perchlorate

Conc 10.4489
R#1 33.79 (35.24)

Q 99.00>83.00 (-) 2.21e4



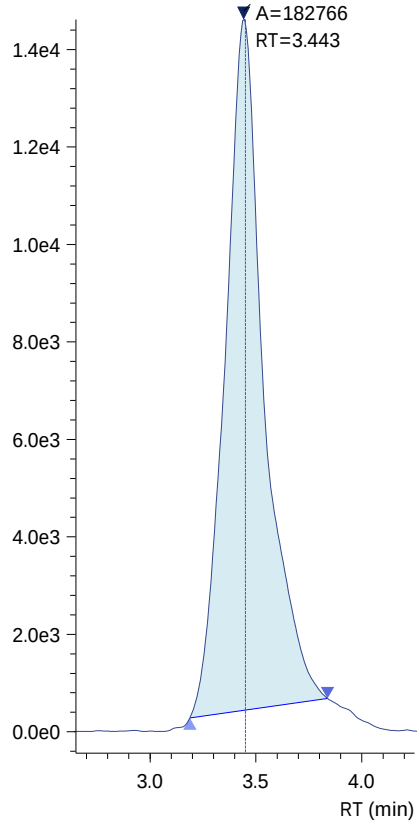
R1 101.00>85.00 (-) A=94215 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

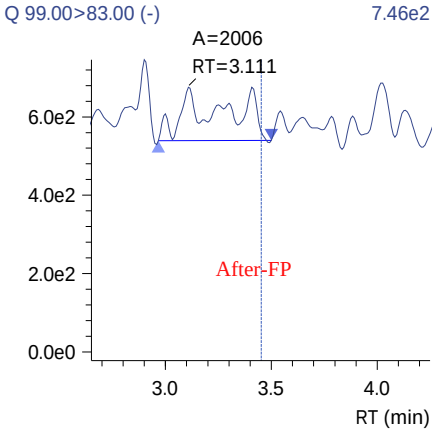
IB

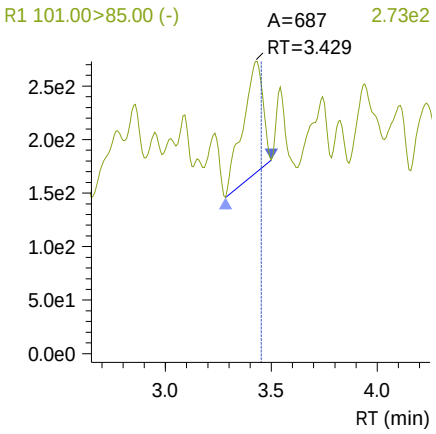
Sample ID: IB
Date Acquired: 6/21/2024 1:41:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-020.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	186191	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.444	186191	186191	1.0000	ng/mL	----	----	

Perchlorate

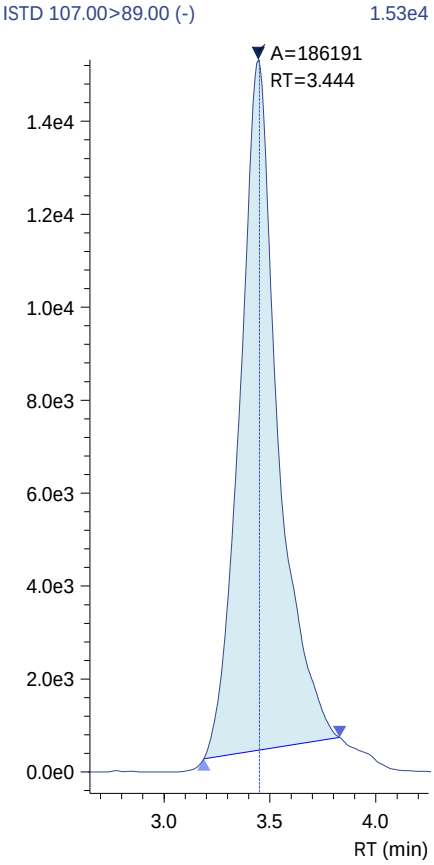
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

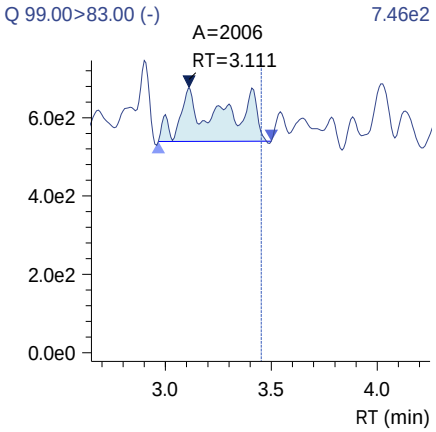
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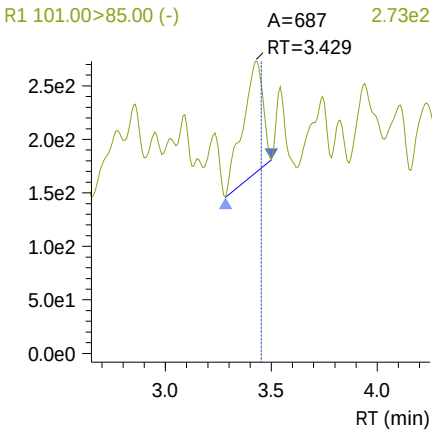
IB

Sample ID: IB
Date Acquired: 6/21/2024 1:41:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-020.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Perchlorate

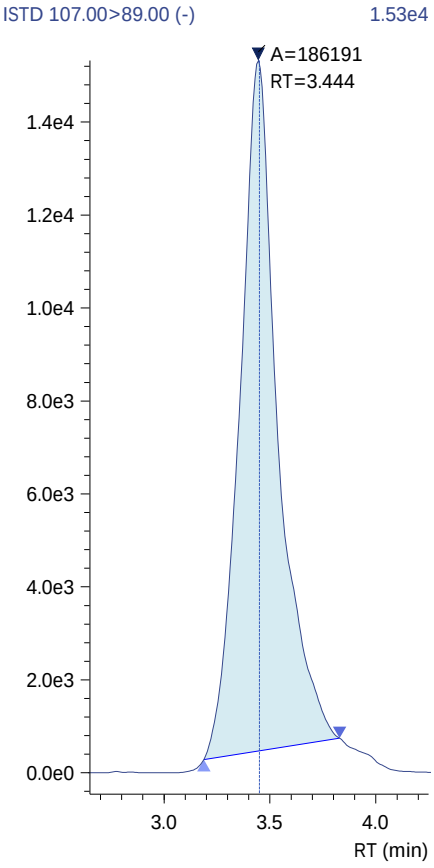
Conc 0.0738
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:49:55 AM

CCV

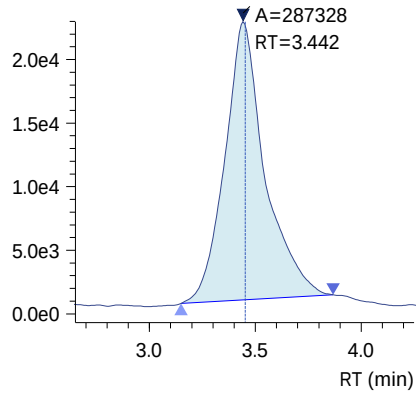
Sample ID: CCV
Date Acquired: 6/21/2024 2:42:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-031.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.442	2873 28	211144	9.3204	ng/mL	101.00 >85.00	33.44	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.441	2111 44	211144	1.0000	ng/mL	----	----	

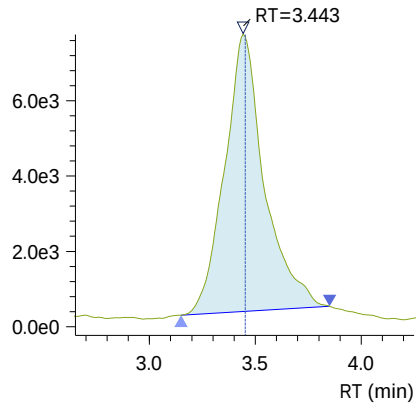
Perchlorate

Conc 9.3204
R#1 33.44 (35.24)

Q 99.00>83.00 (-) 2.30e4



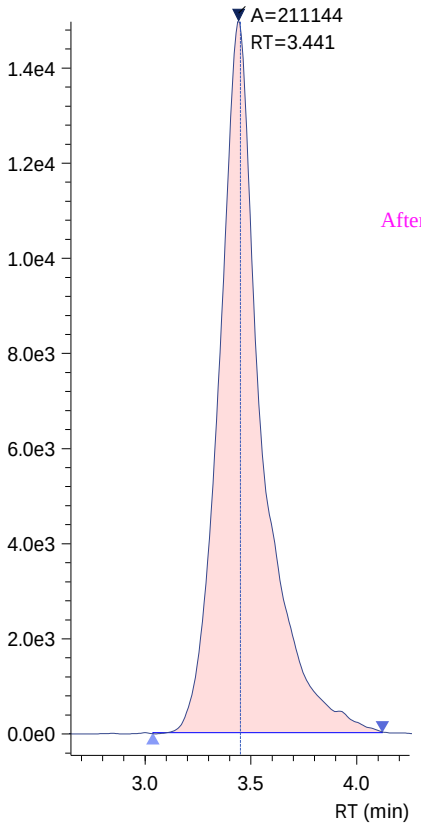
R1 101.00>85.00 (-) A=96080 7.76e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



After-BLC

Insight Report

Printed at 6/26/2024 11:50:37 AM

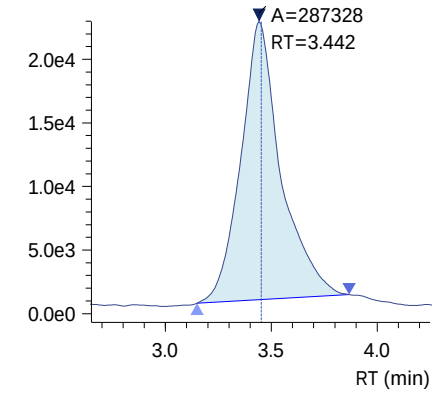
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 2:42:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-031.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

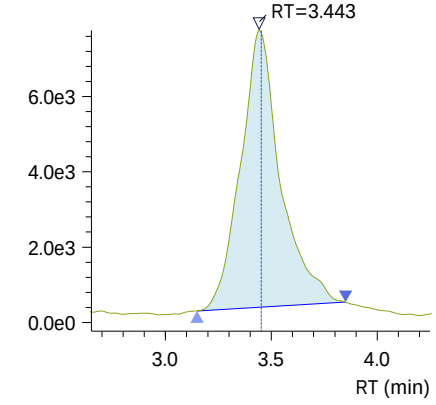
Perchlorate

Conc 10.3005
R#1 33.44 (35.24)

Q 99.00>83.00 (-) 2.30e4



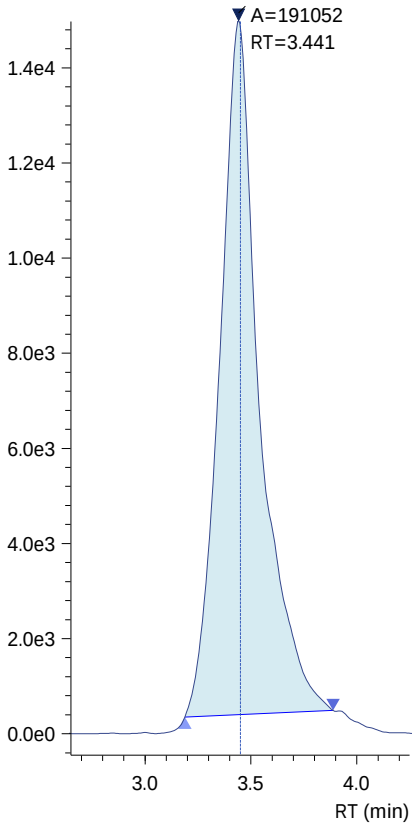
R1 101.00>85.00 (-) A=96080 7.76e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

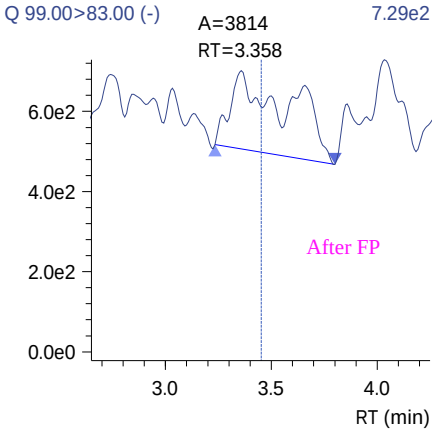
IB

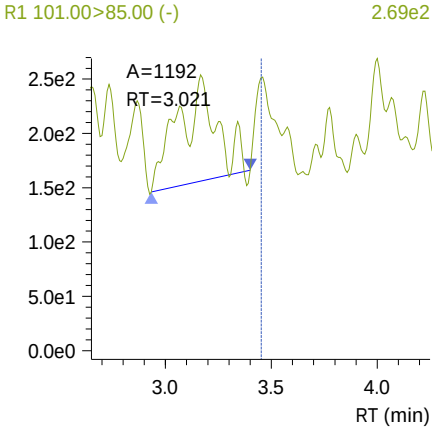
Sample ID: IB
Date Acquired: 6/21/2024 2:48:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-032.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	192805	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.443	192805	192805	1.0000	ng/mL	----	----	

Perchlorate

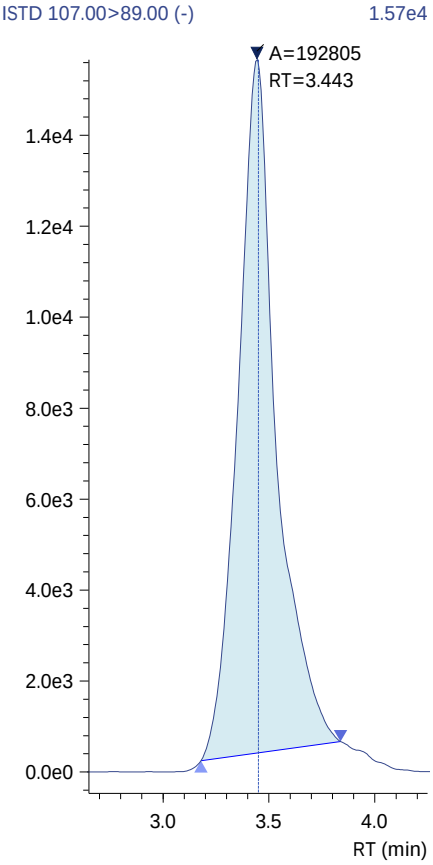
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

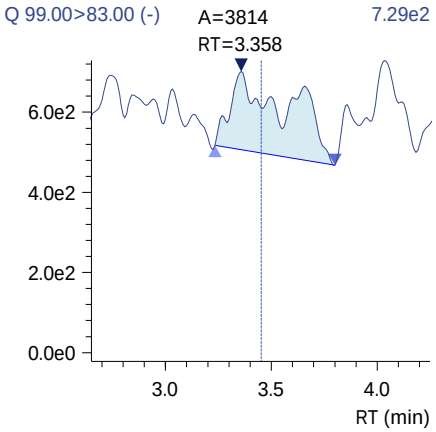
Printed at 6/26/2024 11:50:37 AM

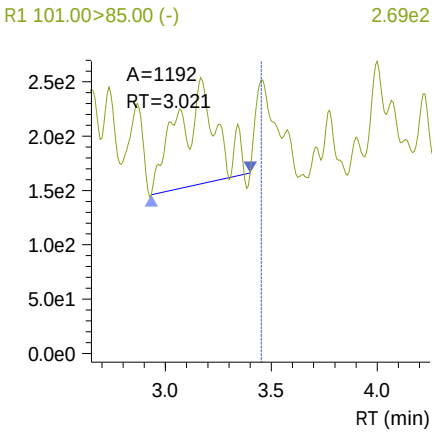
IB

Sample ID: IB
Date Acquired: 6/21/2024 2:48:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-032.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Perchlorate

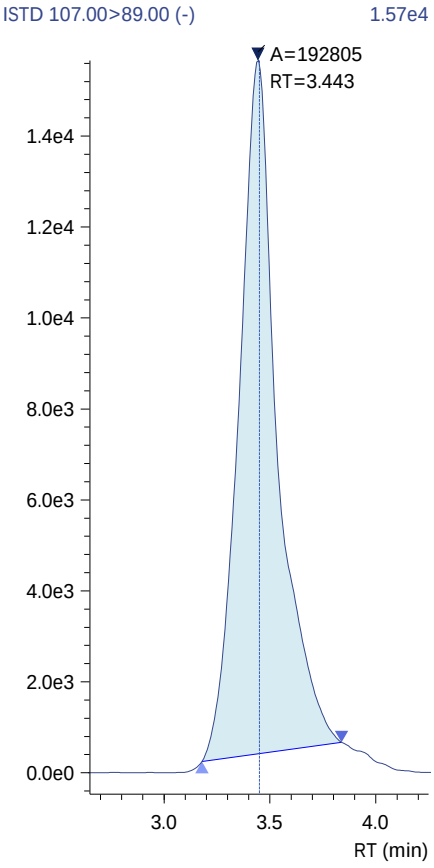
Conc 0.1355
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:49:55 AM

E2400685-008

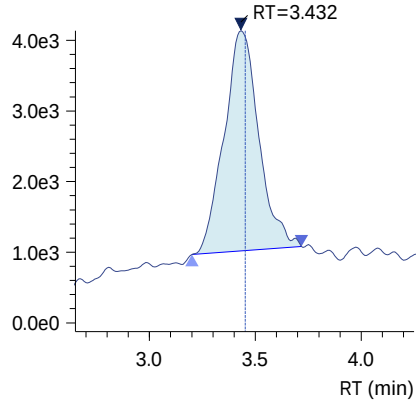
Sample ID: E2400685-008
Date Acquired: 6/21/2024 3:08:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-035.lcd
Vial: 18 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.432	35613	295185	0.8263	ng/mL	101.00 >85.00	30.24	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.434	295185	295185	1.0000	ng/mL	----	----	

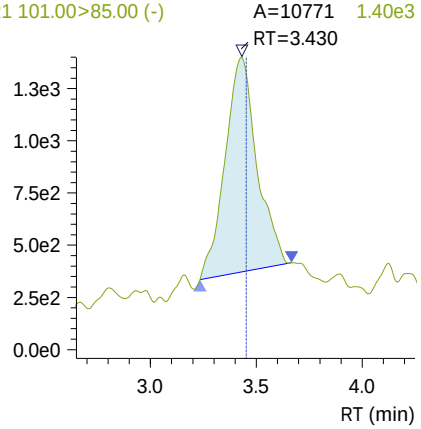
Perchlorate

Conc 0.8263
R#1 30.24 (35.24)

Q 99.00>83.00 (-) A=35613 4.14e3 RT=3.432



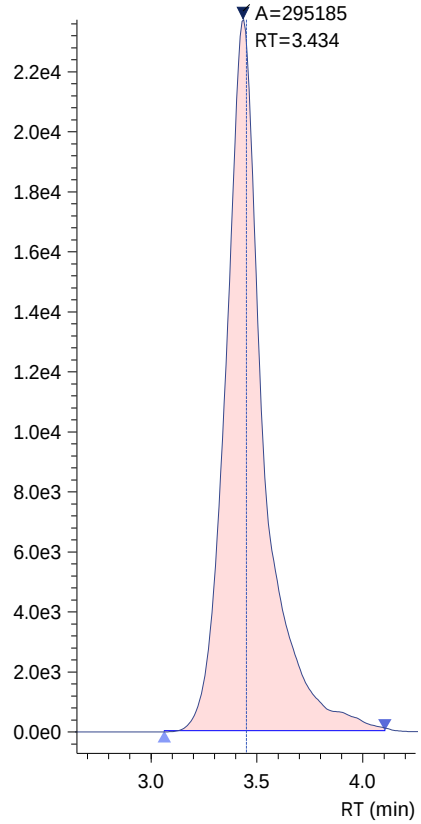
R1 101.00>85.00 (-) A=10771 1.40e3 RT=3.430



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.37e4 A=295185 RT=3.434



After-BLC

Insight Report

Printed at 6/26/2024 11:50:37 AM

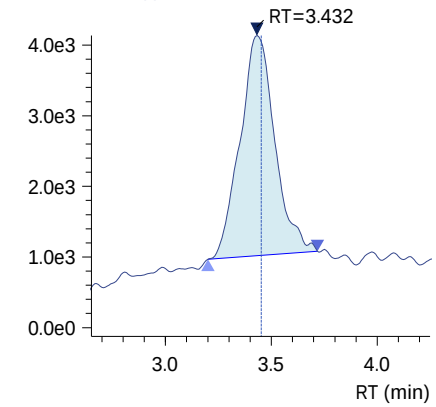
E2400685-008

Sample ID: E2400685-008
Date Acquired: 6/21/2024 3:08:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-035.lcd
Vial: 18 | Inj. Volume: 10.0000uL | Tray: 3

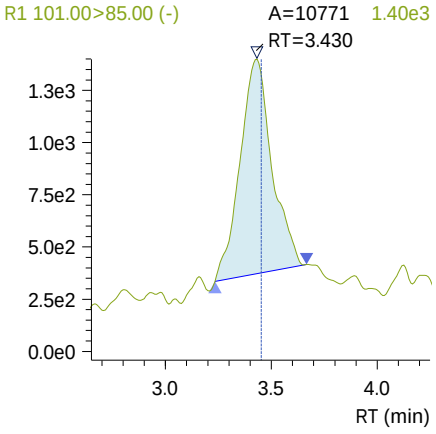
Perchlorate

Conc 0.9218
R#1 30.24 (35.24)

Q 99.00>83.00 (-) A=35613 4.14e3



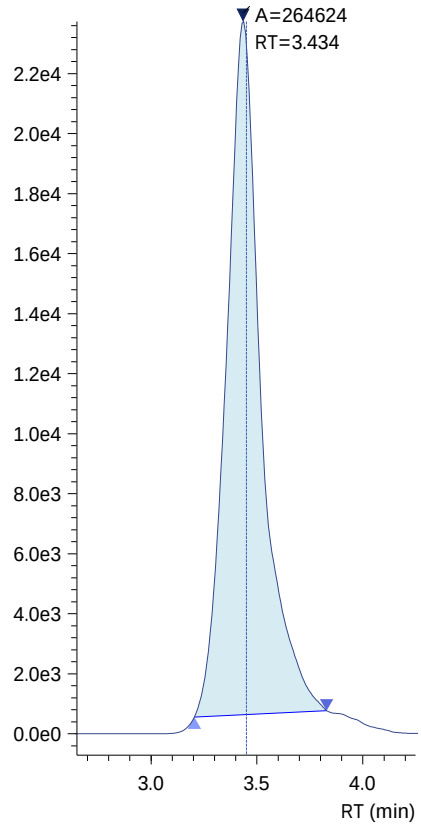
R1 101.00>85.00 (-) A=10771 1.40e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.37e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

CCV

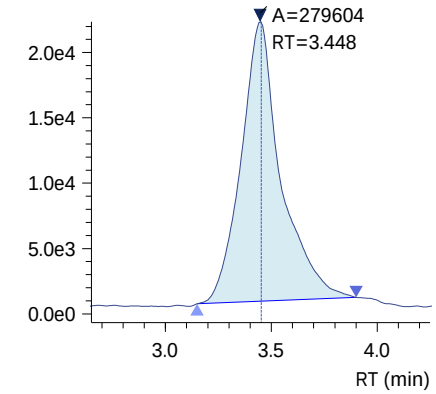
Sample ID: CCV
Date Acquired: 6/21/2024 3:52:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-043.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.448	279604	202336	9.4646	ng/mL	101.00 >85.00	33.25	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.438	202336	202336	1.0000	ng/mL	----	----	

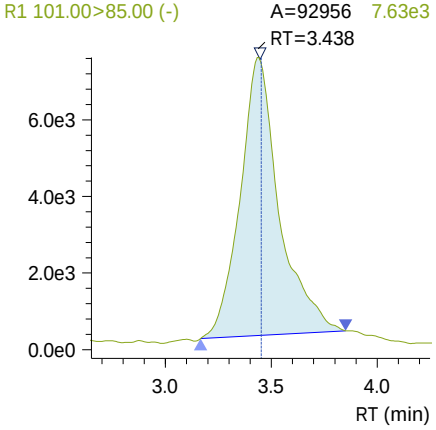
Perchlorate

Conc 9.4646
R#1 33.25 (35.24)

Q 99.00>83.00 (-) 2.24e4



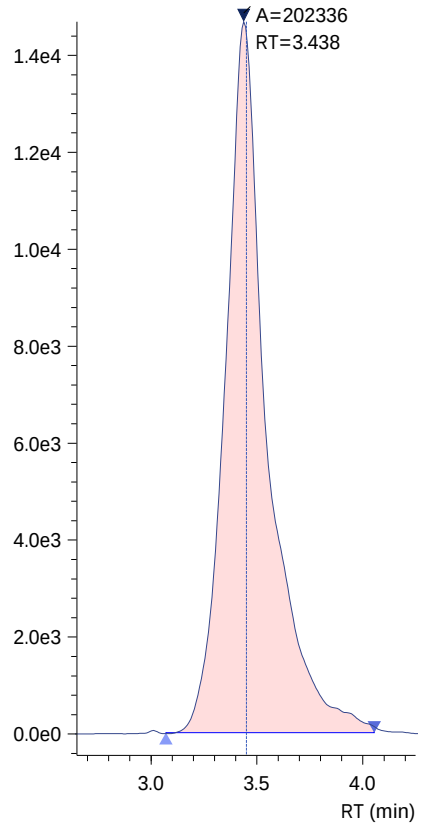
R1 101.00>85.00 (-) A=92956 7.63e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.47e4



After-BLC

Insight Report

Printed at 6/26/2024 11:50:37 AM

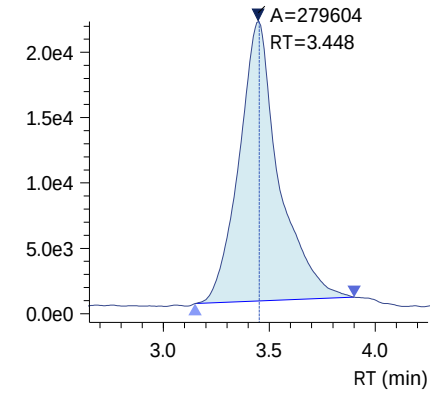
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 3:52:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-043.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

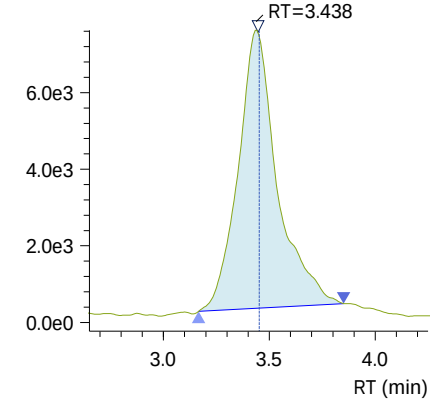
Perchlorate

Conc 10.4703
R#1 33.25 (35.24)

Q 99.00>83.00 (-) 2.24e4



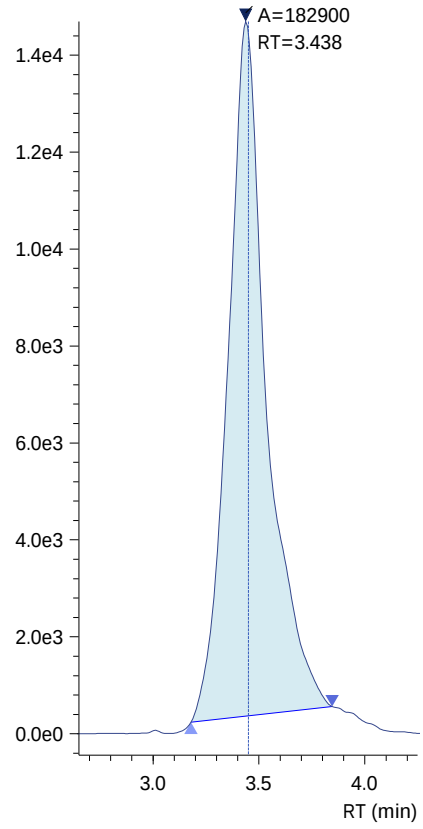
R1 101.00>85.00 (-) A=92956 7.63e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.47e4



Insight Report

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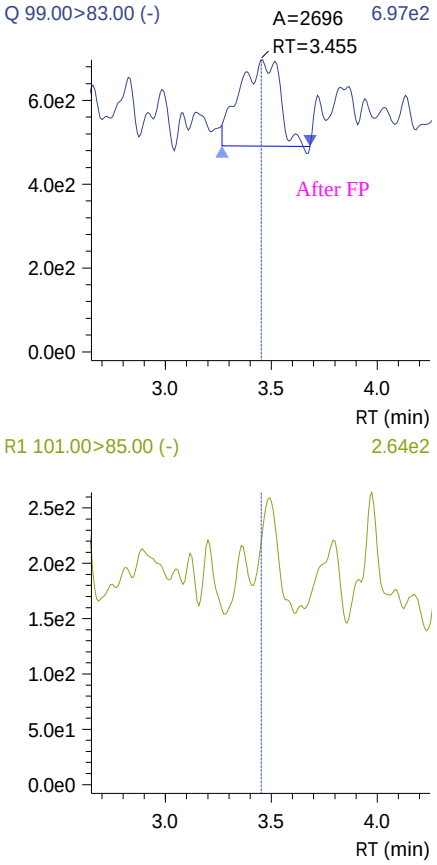
IB

Sample ID: IB
Date Acquired: 6/21/2024 3:57:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-044.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	209137	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.441	209137	209137	1.0000	ng/mL	----	----	

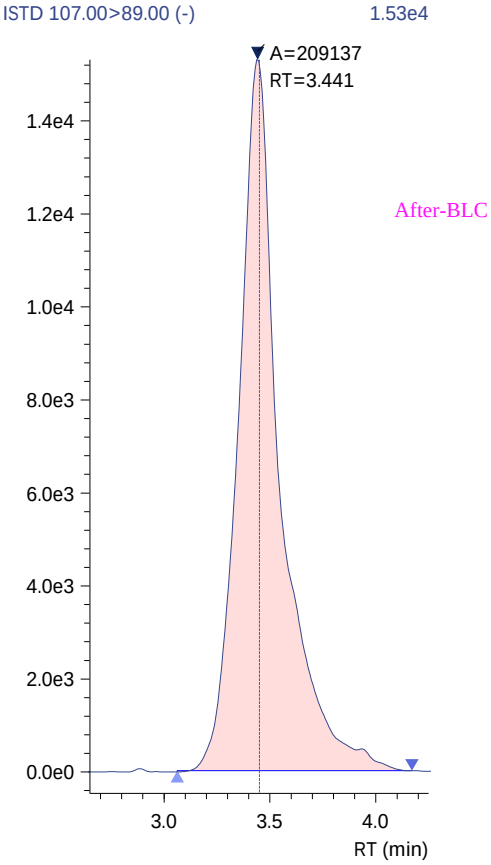
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

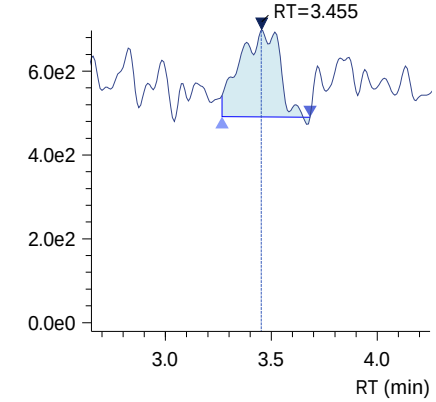
IB

Sample ID: IB
Date Acquired: 6/21/2024 3:57:56 PM
Acquired by: System Administrator
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Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

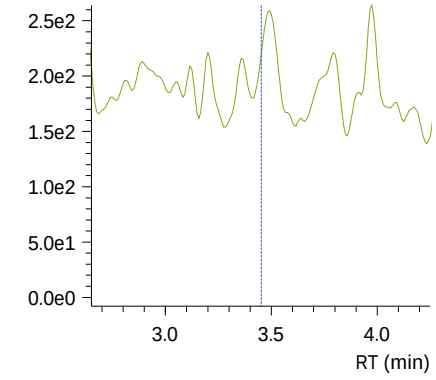
Perchlorate

Conc 0.1004
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=2696 6.97e2



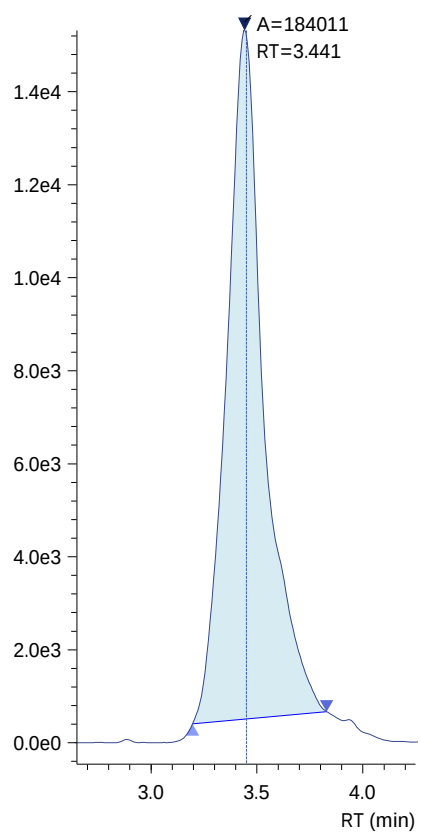
R1 101.00>85.00 (-) 2.64e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.53e4



Insight Report

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E2400685-002x100

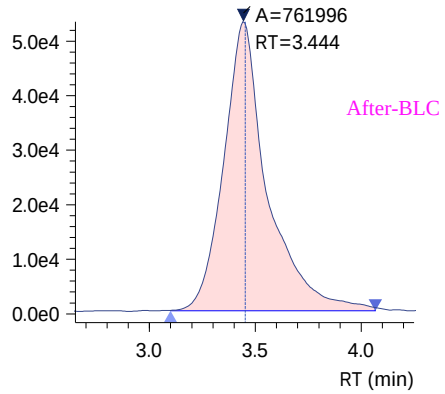
Sample ID: E2400685-002x100
Date Acquired: 6/21/2024 4:20:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-048.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.444	7619 96	188538	27.6 812	ng/mL	101.00 >85.00	33.62	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.441	1885 38	188538	1.0000	ng/mL	----	----	

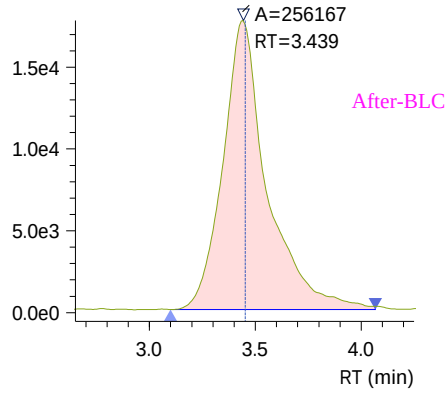
Perchlorate

Conc 27.6812
R#1 33.62 (35.24)

Q 99.00>83.00 (-) 5.36e4



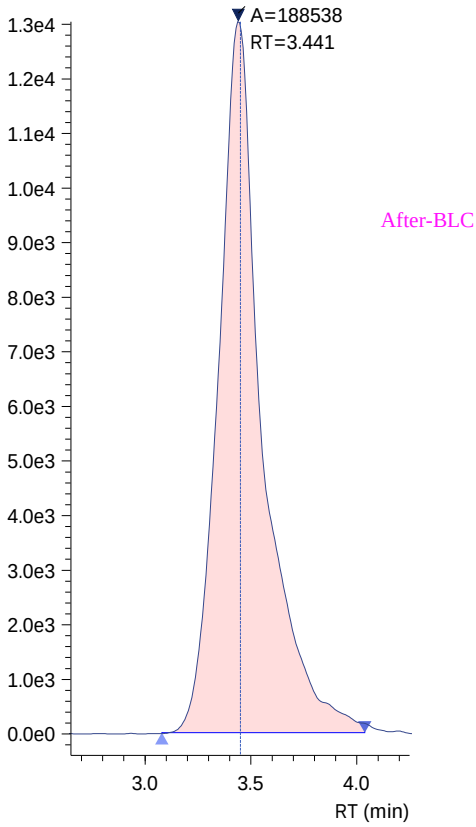
R1 101.00>85.00 (-) 1.79e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.30e4



Insight Report

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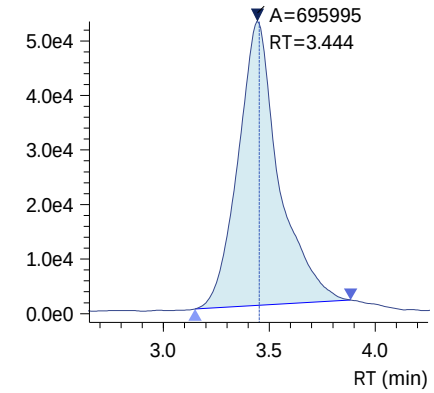
E2400685-002x100

Sample ID: E2400685-002x100
Date Acquired: 6/21/2024 4:20:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-048.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 3

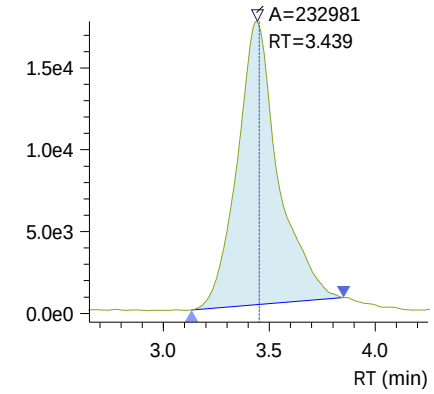
Perchlorate

Conc 28.1102
R#1 33.47 (35.24)

Q 99.00>83.00 (-) 5.36e4



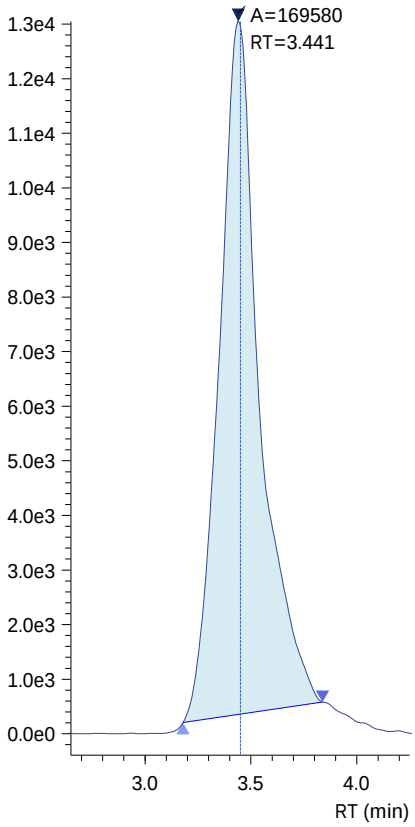
R1 101.00>85.00 (-) 1.79e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.30e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

E2400685-003x100

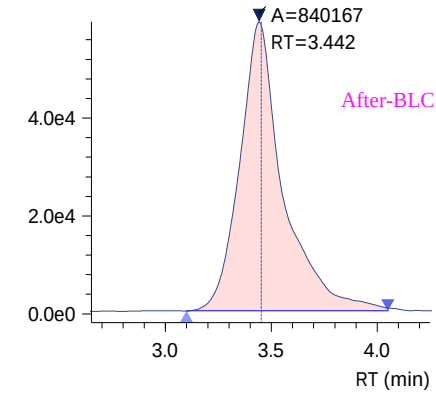
Sample ID: E2400685-003x100
Date Acquired: 6/21/2024 4:25:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-049.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.442	8401 67	148863	38.6 556	ng/mL	101.00 >85.00	33.83	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.437	1488 63	148863	1.0000	ng/mL	----	----	

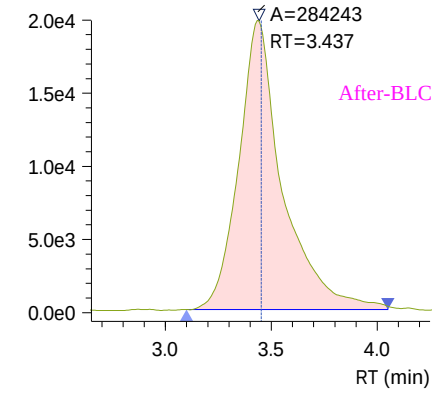
Perchlorate

Conc 38.6556
R#1 33.83 (35.24)

Q 99.00>83.00 (-) 5.97e4



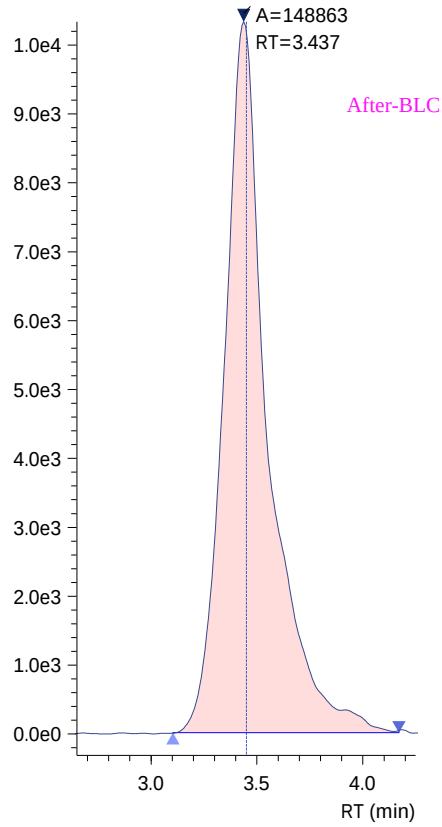
R1 101.00>85.00 (-) 2.00e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.03e4



Insight Report

Printed at 6/26/2024 11:50:37 AM

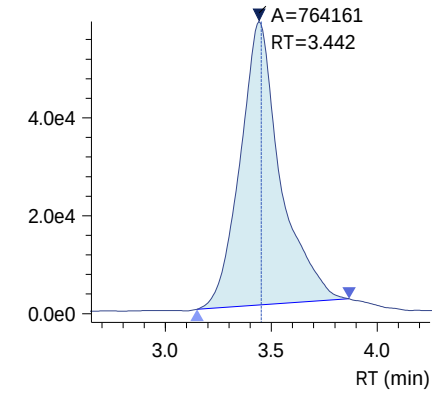
E2400685-003x100

Sample ID: E2400685-003x100
Date Acquired: 6/21/2024 4:25:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-049.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 3

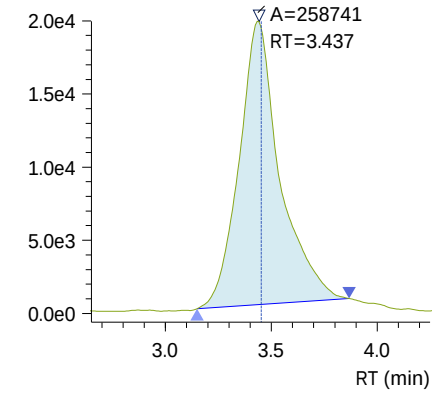
Perchlorate

Conc 38.9560
R#1 33.86 (35.24)

Q 99.00>83.00 (-) 5.97e4



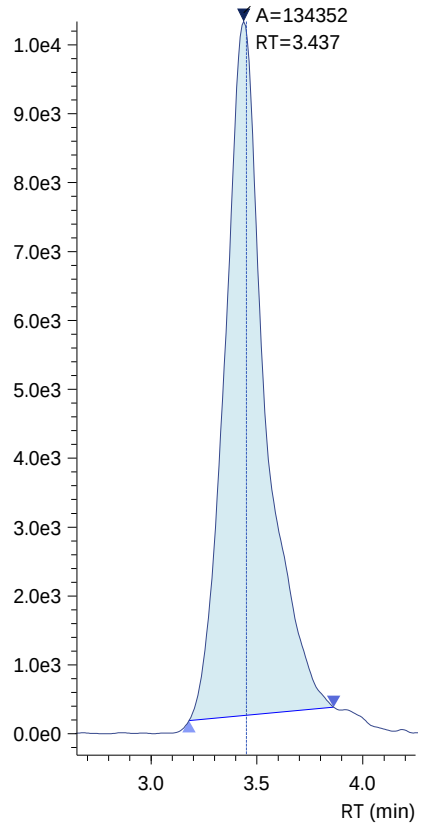
R1 101.00>85.00 (-) 2.00e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.03e4



Insight Report

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E2400685-004x100

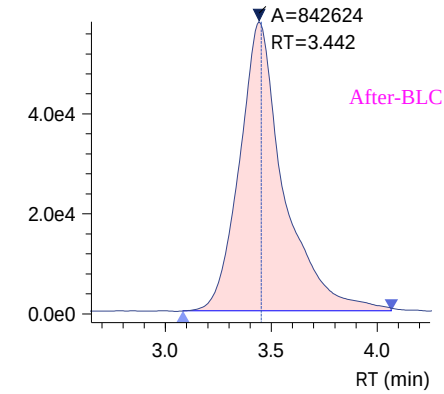
Sample ID: E2400685-004x100
Date Acquired: 6/21/2024 4:31:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-050.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.442	8426 24	196515	29.3 678	ng/mL	101.00 >85.00	33.83	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.438	1965 15	196515	1.0000	ng/mL	----	----	

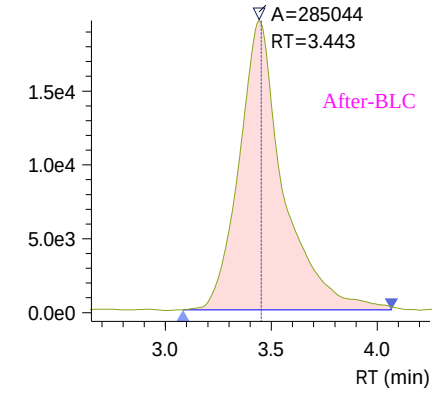
Perchlorate

Conc 29.3678
R#1 33.83 (35.24)

Q 99.00>83.00 (-) 5.84e4



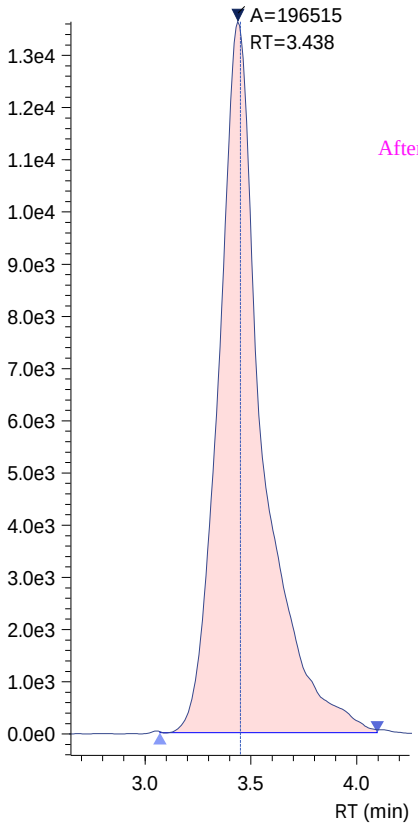
R1 101.00>85.00 (-) 1.98e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.36e4



Insight Report

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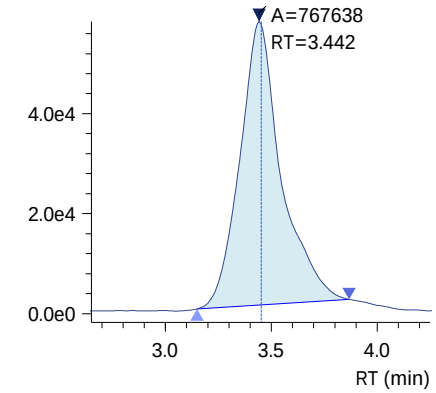
E2400685-004x100

Sample ID: E2400685-004x100
Date Acquired: 6/21/2024 4:31:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-050.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 3

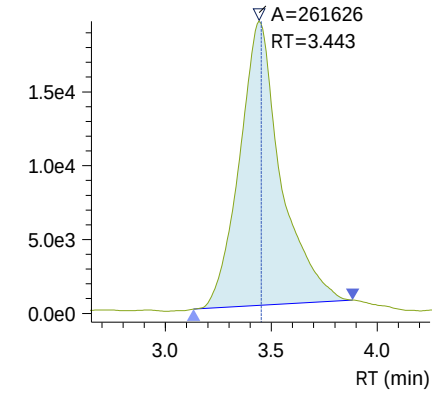
Perchlorate

Conc 29.9459
R#1 34.08 (35.24)

Q 99.00>83.00 (-) 5.84e4



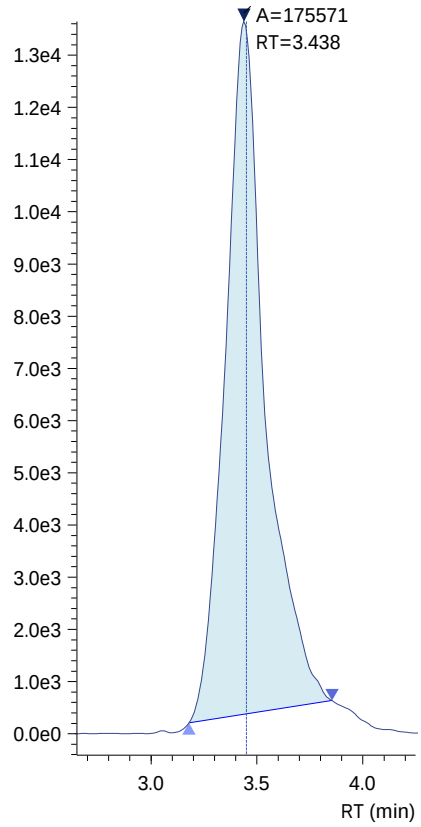
R1 101.00>85.00 (-) 1.98e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.36e4



Insight Report

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E2400685-005x200

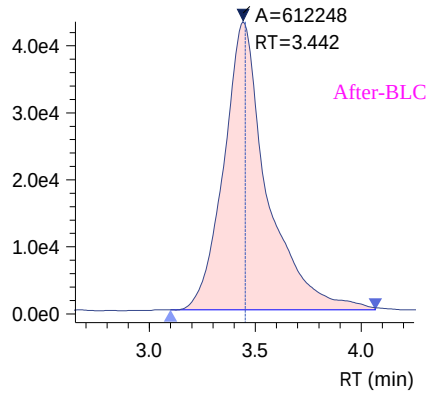
Sample ID: E2400685-005x200
Date Acquired: 6/21/2024 4:36:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-051.lcd
Vial: 32 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.442	6122 48	190976	21.9 575	ng/mL	101.00 >85.00	34.03	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.442	1909 76	190976	1.0000	ng/mL	----	----	

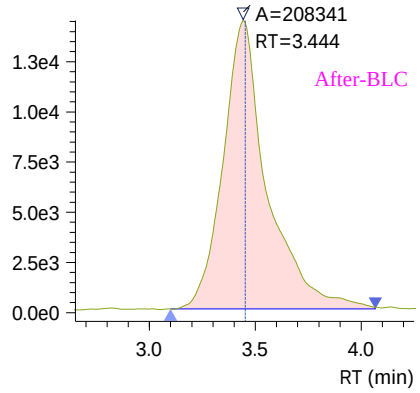
Perchlorate

Conc 21.9575
R#1 34.03 (35.24)

Q 99.00>83.00 (-) 4.36e4



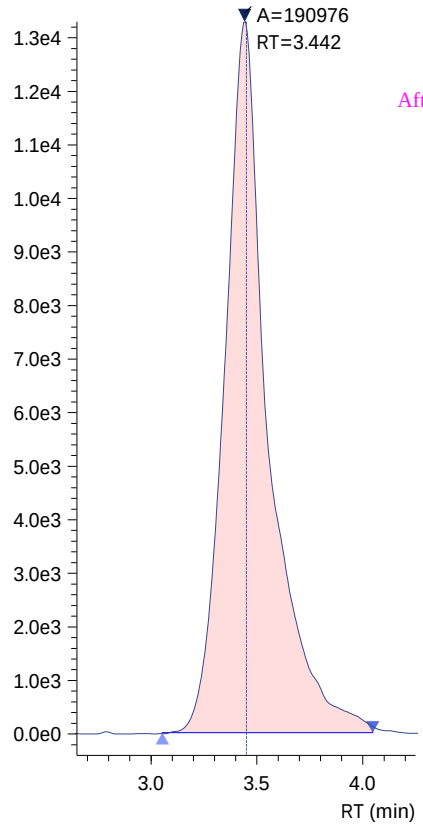
R1 101.00>85.00 (-) 1.46e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.33e4



Insight Report

Printed at 6/26/2024 11:50:37 AM

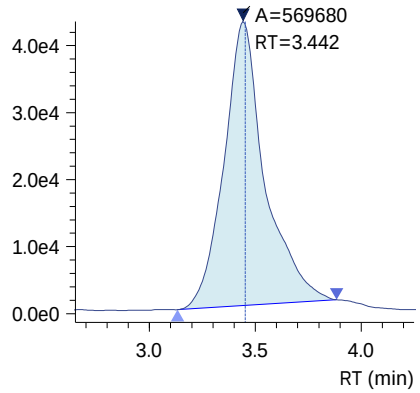
E2400685-005x200

Sample ID: E2400685-005x200
Date Acquired: 6/21/2024 4:36:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-051.lcd
Vial: 32 | Inj. Volume: 10.0000uL | Tray: 3

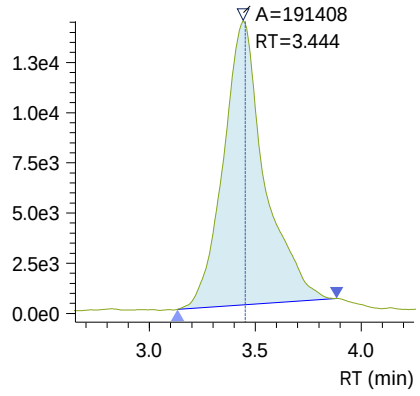
Perchlorate

Conc 22.6314
R#1 33.60 (35.24)

Q 99.00>83.00 (-) 4.36e4



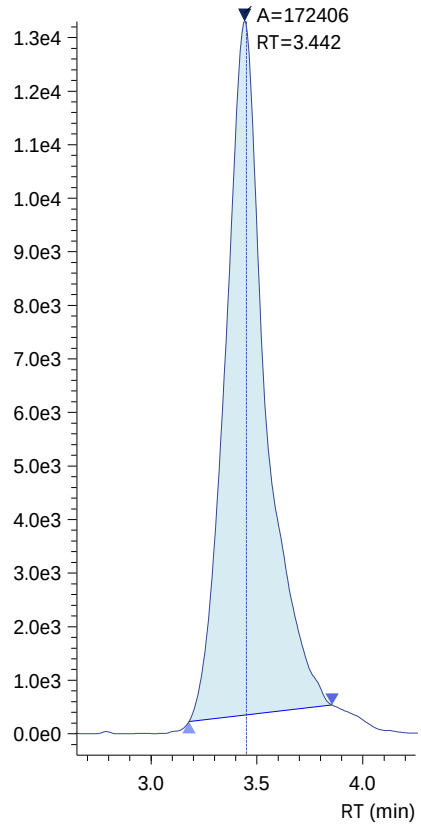
R1 101.00>85.00 (-) 1.46e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.33e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

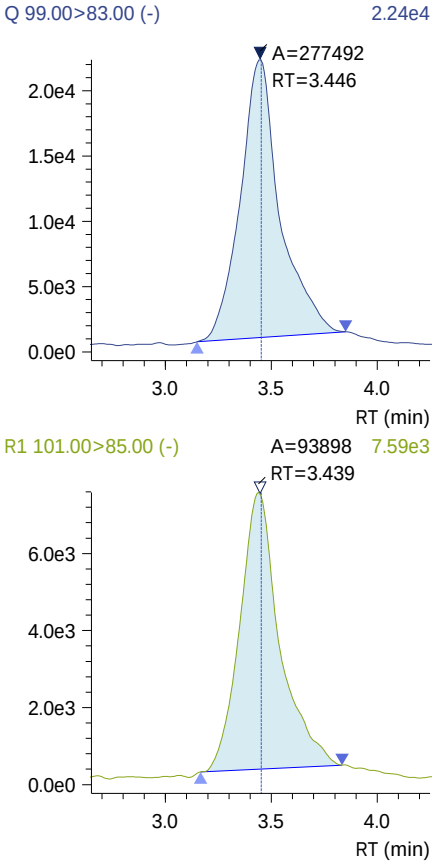
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 4:42:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-052.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.446	277492	207383	9.1645	ng/mL	101.00 >85.00	33.84	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.440	207383	207383	1.0000	ng/mL	----	----	

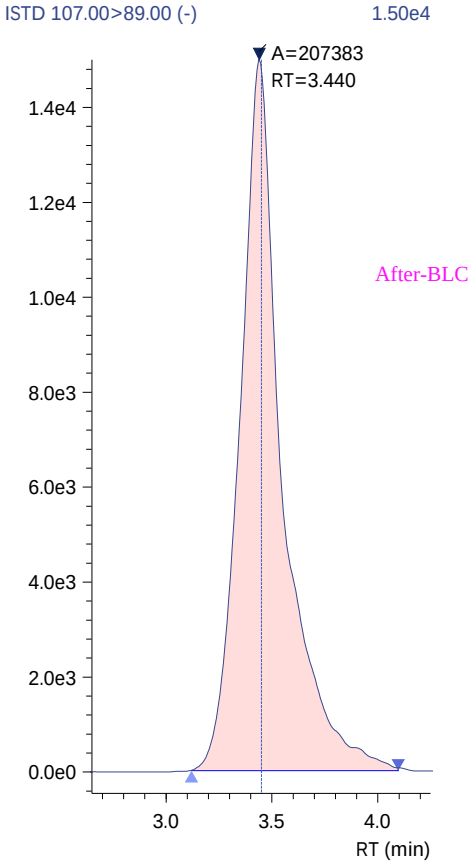
Perchlorate

Conc 9.1645
R#1 33.84 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

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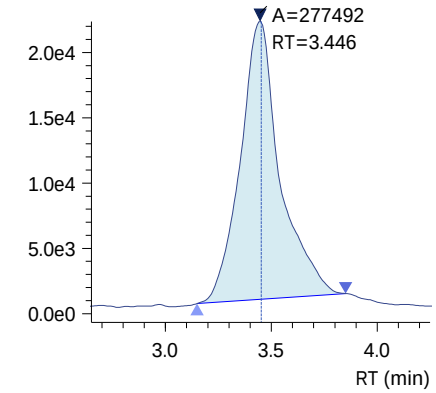
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 4:42:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-052.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

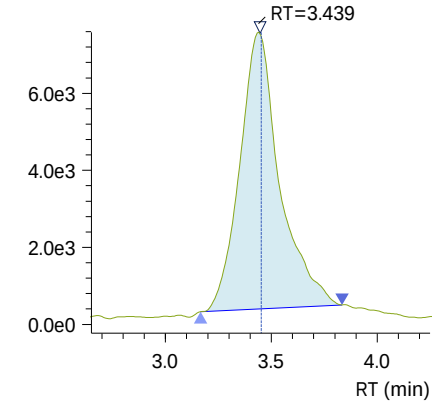
Perchlorate

Conc 10.1401
R#1 33.84 (35.24)

Q 99.00>83.00 (-) 2.24e4



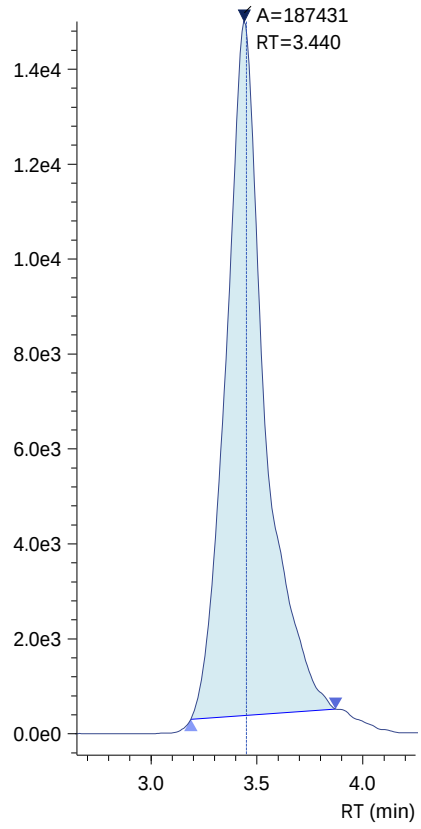
R1 101.00>85.00 (-) A=93898 7.59e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

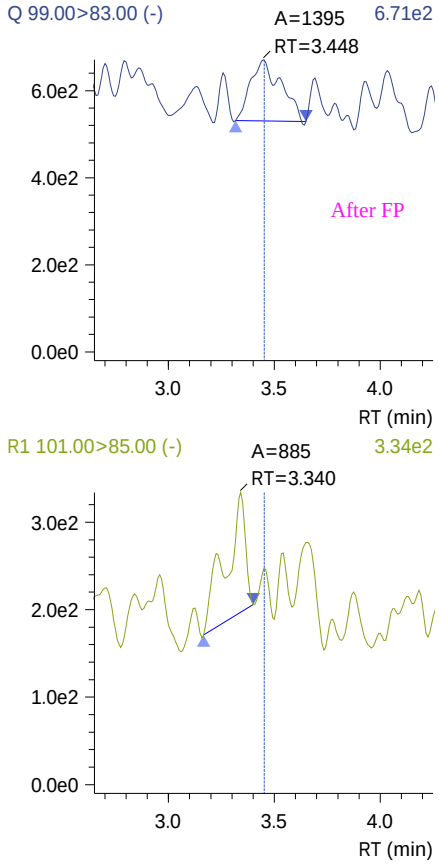
IB

Sample ID: IB
Date Acquired: 6/21/2024 4:47:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-053.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	190035	----	ng/mL	101.00 >85.00	63.46	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.441	190035	190035	1.0000	ng/mL	----	----	

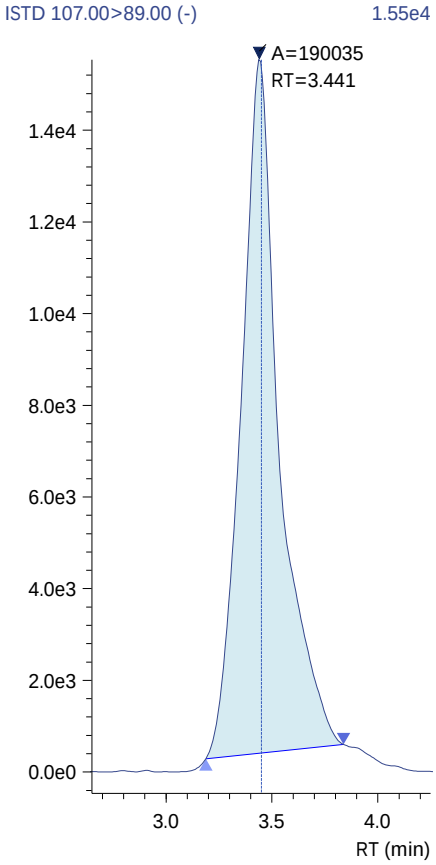
Perchlorate

Conc ----
R#1 63.46 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



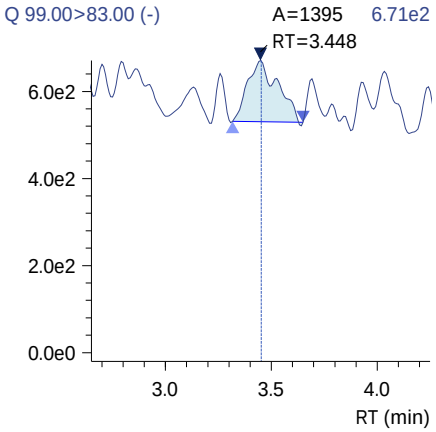
Insight Report

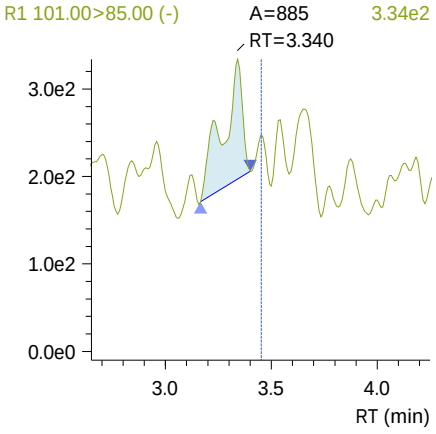
IB

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Date Acquired: 6/21/2024 4:47:49 PM
Acquired by: System Administrator
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Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Perchlorate

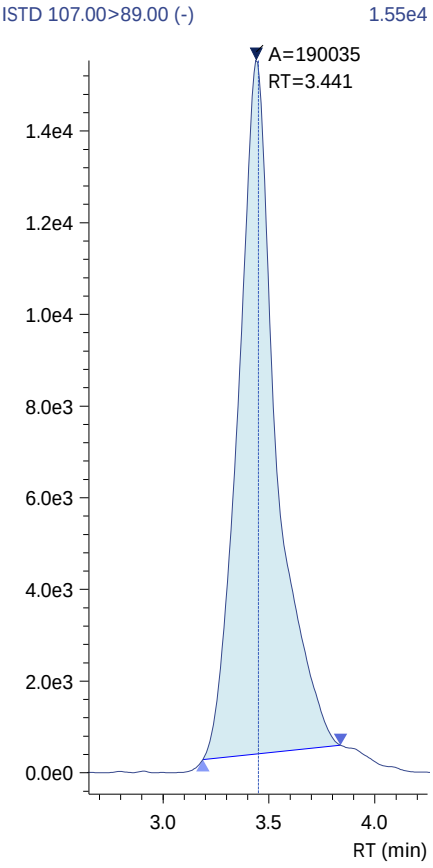
Conc 0.0503
R#1 63.46 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

Method File: I:\LCMS01\DATA\20240624\20240624.lcm
Project File: I:\LCMS01\DATA\20240624\20240624.damlp

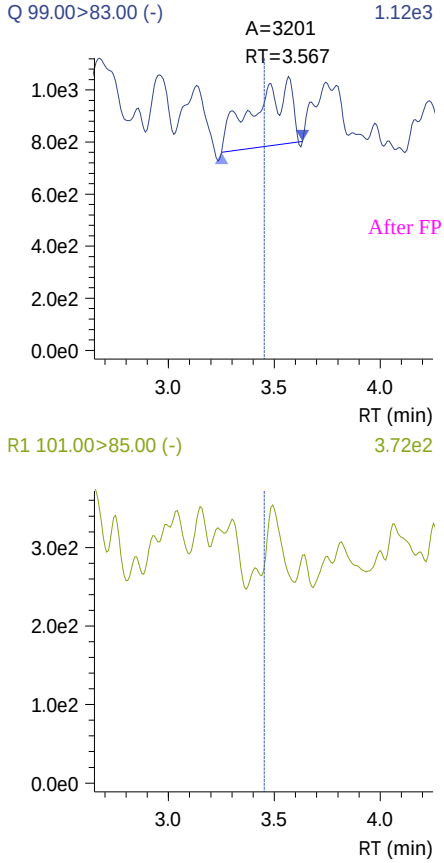
IB

Sample ID: IB
Date Acquired: 6/24/2024 9:04:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	182988	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate -18O4_IS	Auto	3.457	182988	182988	1.0000	ng/mL	----	----	

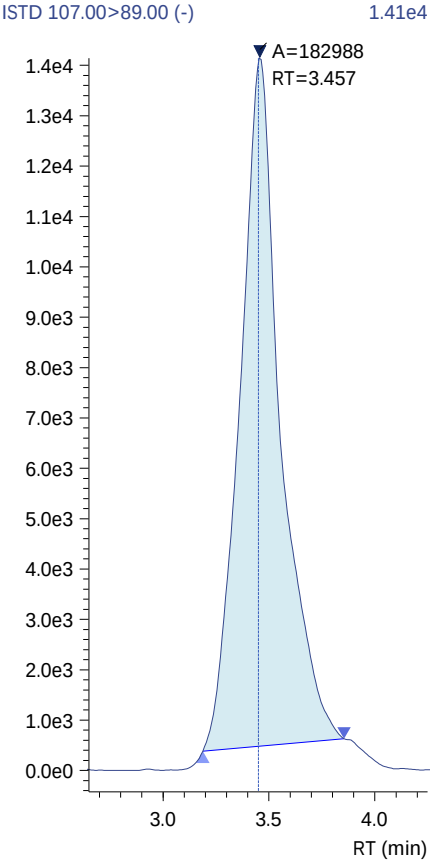
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

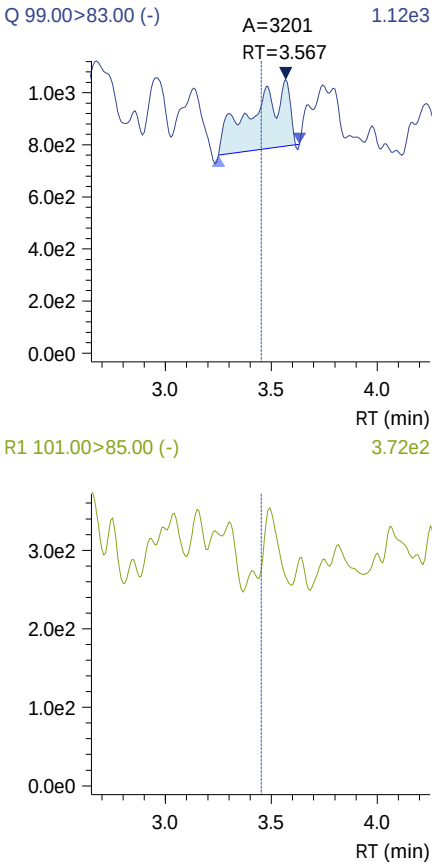
Method File: I:\LCMS01\DATA\20240624\20240624.lcm
Project File: I:\LCMS01\DATA\20240624\20240624.damlp

IB

Sample ID: IB
Date Acquired: 6/24/2024 9:04:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

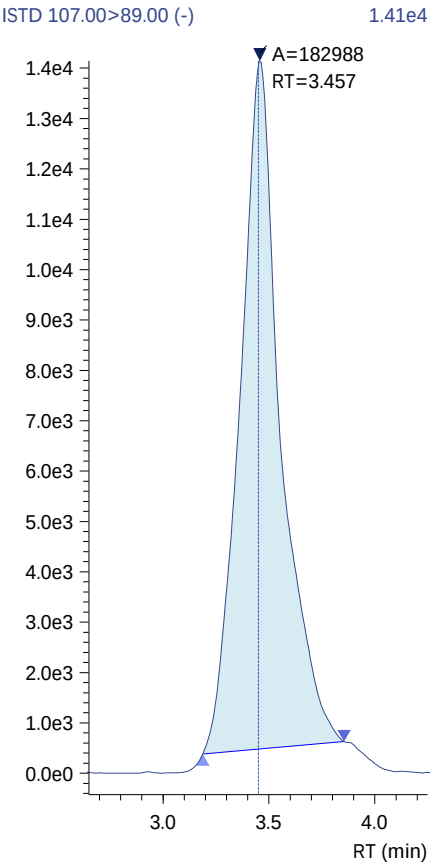
Perchlorate

Conc 0.1198
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

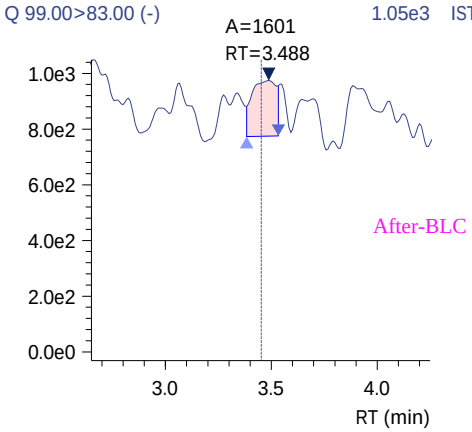
LODV

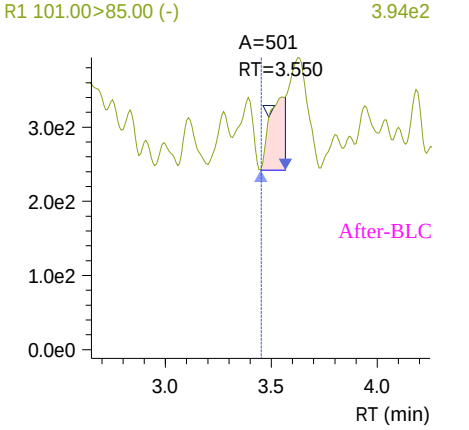
Sample ID: LODV
Date Acquired: 6/24/2024 9:09:52 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.488	1601	198442	0.0552	ng/mL	101.00 >85.00	31.30	23.32 -42.73
Sodium Perchlorate -18O4_IS	Auto	3.453	198442	198442	1.0000	ng/mL	----	----	

Perchlorate

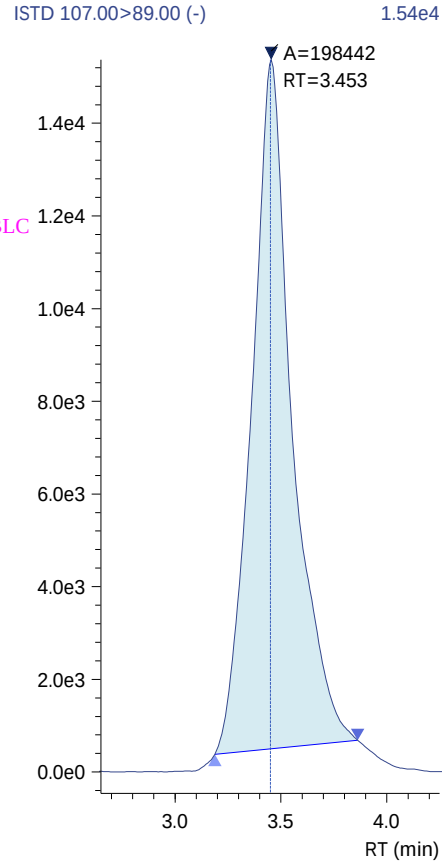
Conc 0.0552
R#1 31.30 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

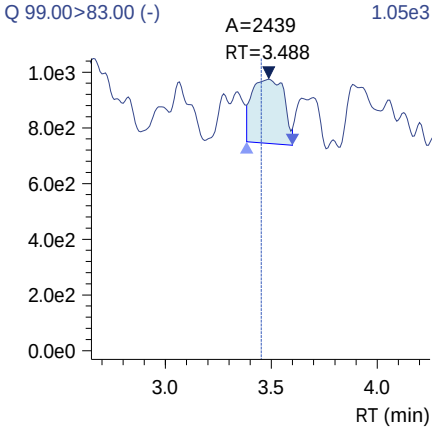
Printed at 6/26/2024 11:58:29 AM

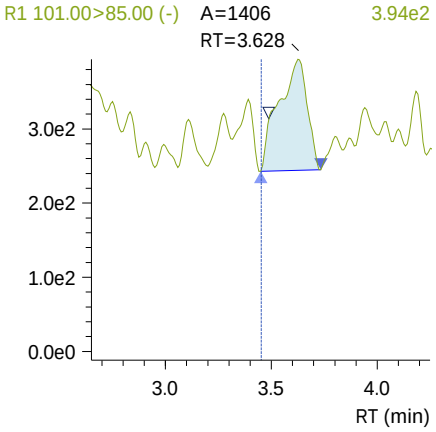
LODV

Sample ID: LODV
Date Acquired: 6/24/2024 9:09:52 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

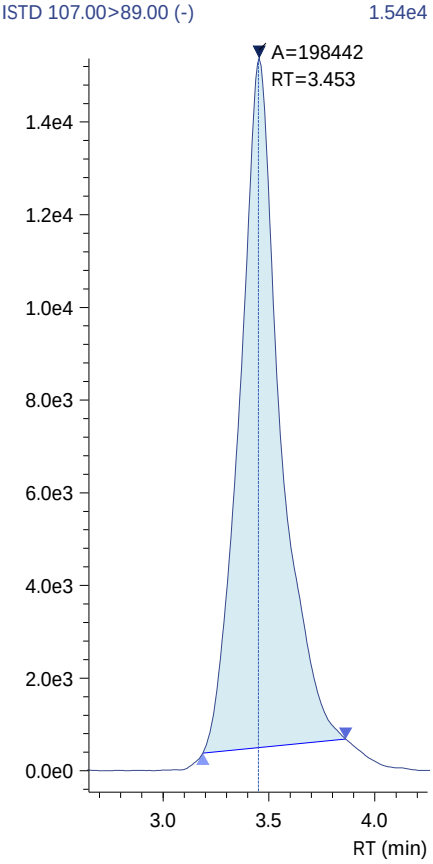
Conc 0.0842
R#1 57.62 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

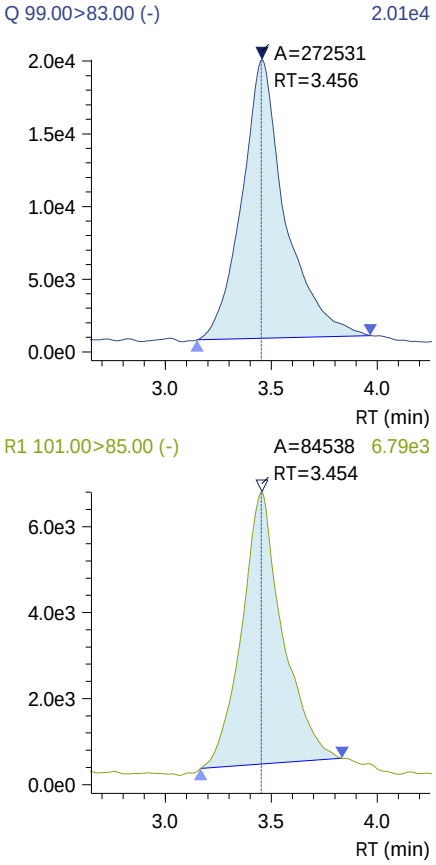
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 9:20:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	272531	198308	9.4126	ng/mL	101.00 >85.00	31.02	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.453	198308	198308	1.0000	ng/mL	----	----	

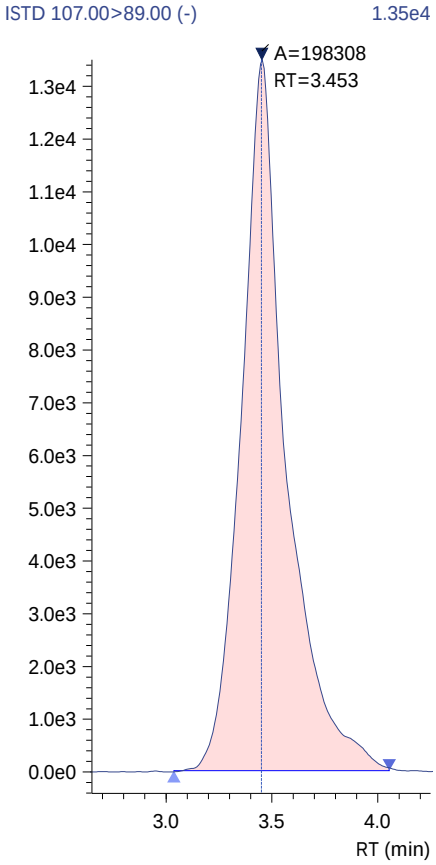
Perchlorate

Conc 9.4126
R#1 31.02 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

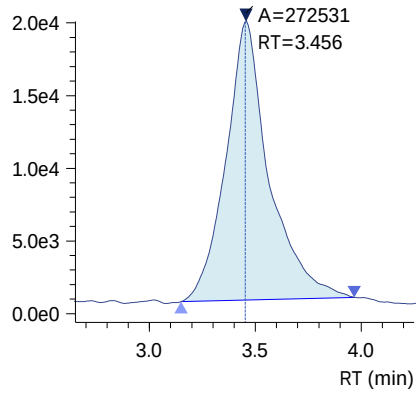
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 9:20:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

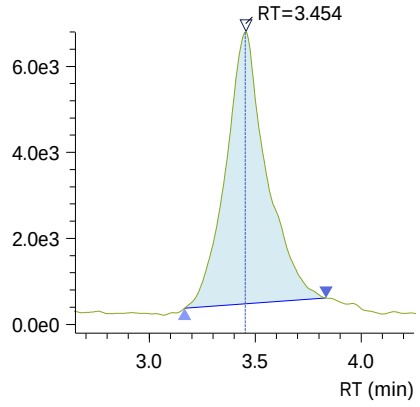
Perchlorate

Conc 10.6506
R#1 31.02 (35.24)

Q 99.00>83.00 (-) 2.01e4



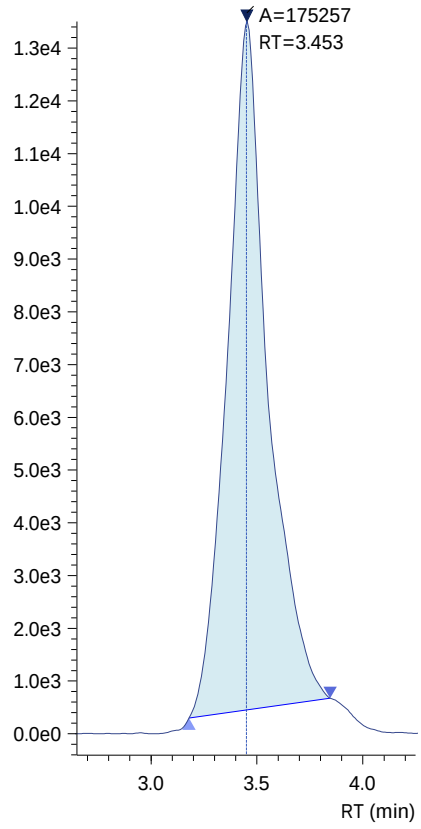
R1 101.00>85.00 (-) A=84538 6.79e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.35e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

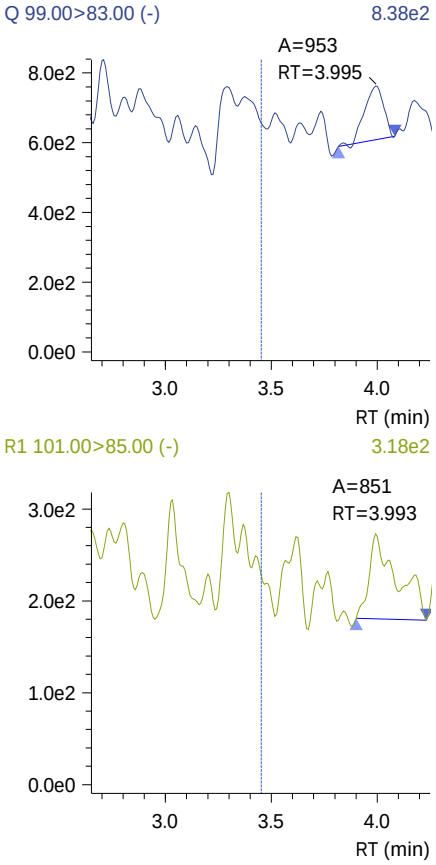
IB

Sample ID: IB
Date Acquired: 6/24/2024 10:20:24 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	227162	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	M	3.453	227162	227162	1.0000	ng/mL	----	----	

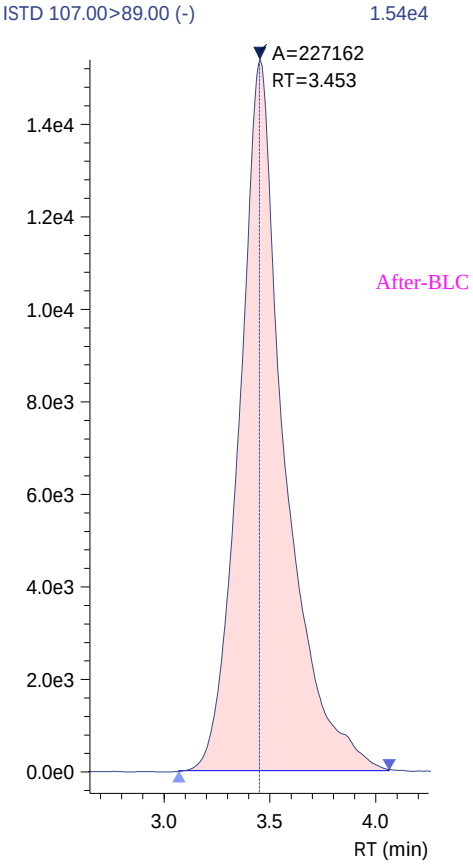
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

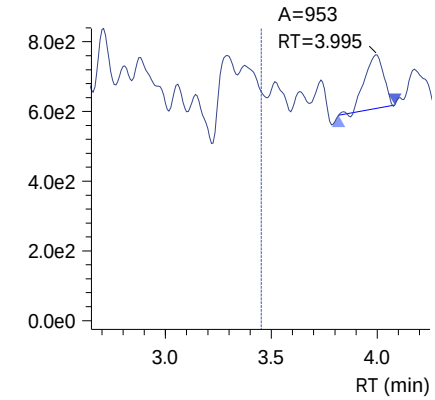
IB

Sample ID: IB
Date Acquired: 6/24/2024 10:20:24 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

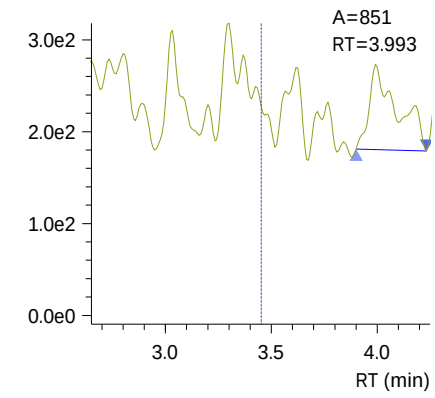
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 8.38e2



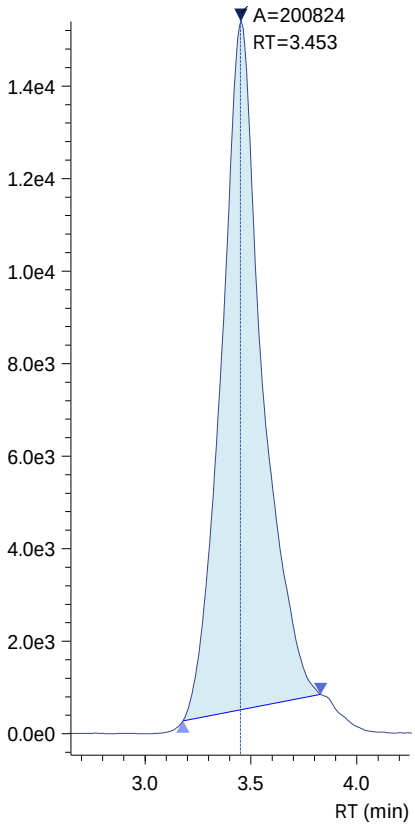
R1 101.00>85.00 (-) 3.18e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.54e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

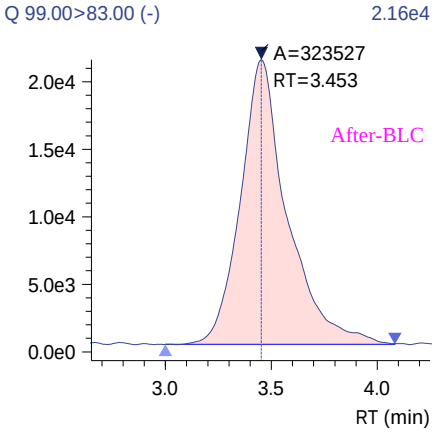
CCV

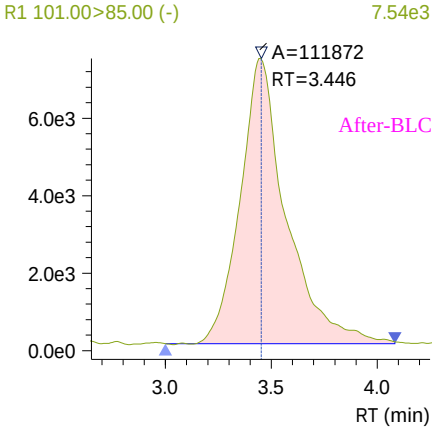
Sample ID: CCV
Date Acquired: 6/24/2024 11:15:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.453	323527	223642	9.9081	ng/mL	101.00 >85.00	34.58	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.449	223642	223642	1.0000	ng/mL	----	----	

Perchlorate

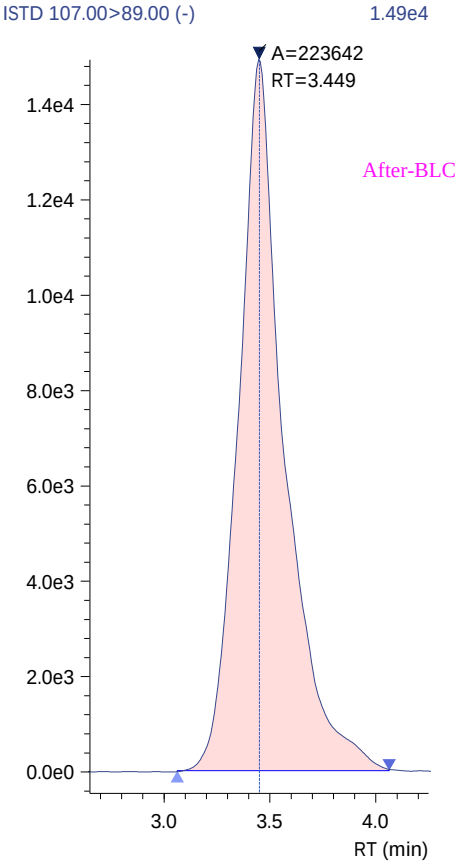
Conc 9.9081
R#1 34.58 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

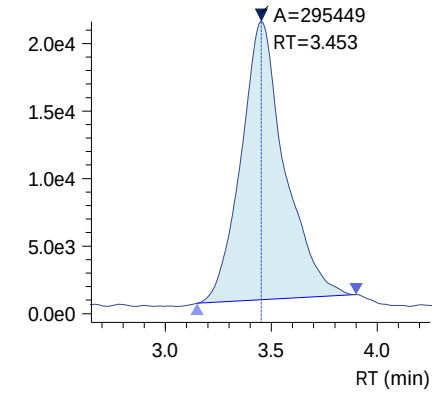
CCV

Sample ID: CCV
Date Acquired: 6/24/2024 11:15:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

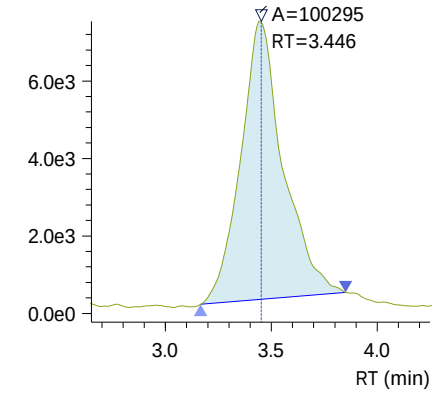
Perchlorate

Conc 10.2540
R#1 33.95 (35.24)

Q 99.00>83.00 (-) 2.16e4



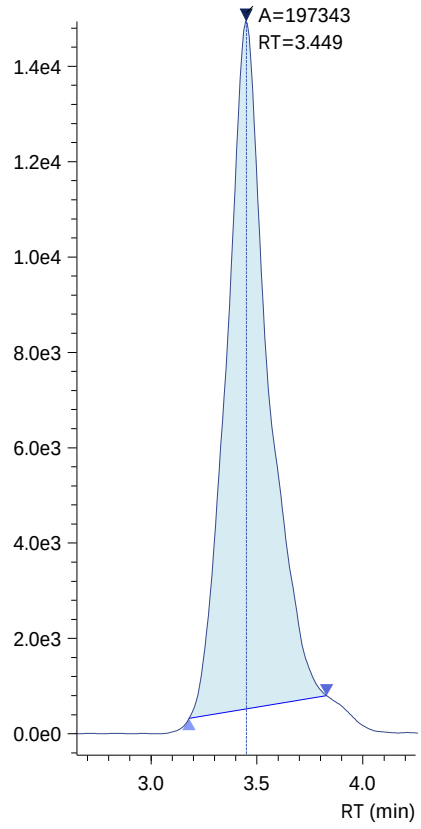
R1 101.00>85.00 (-) 7.54e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

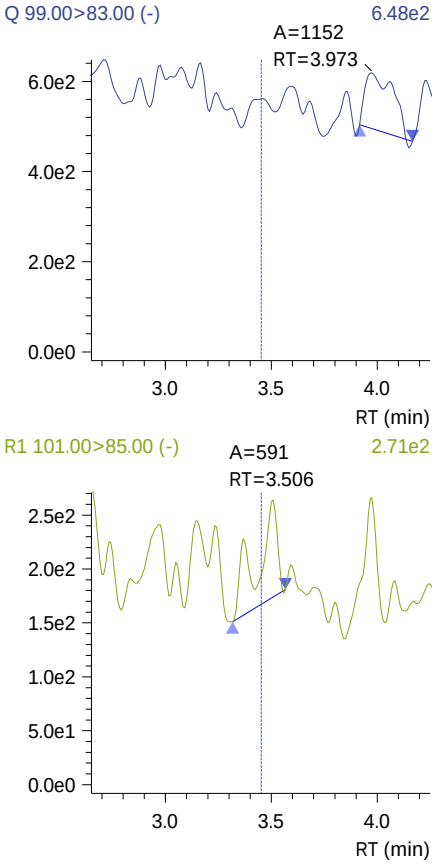
IB

Sample ID: IB
Date Acquired: 6/24/2024 11:21:05 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	201405	----	ng/mL	101.00 >85.00	0.00	23.32 -42.73
Sodium Perchlorate-18O4_IS	Auto	3.447	201405	201405	1.0000	ng/mL	----	----	

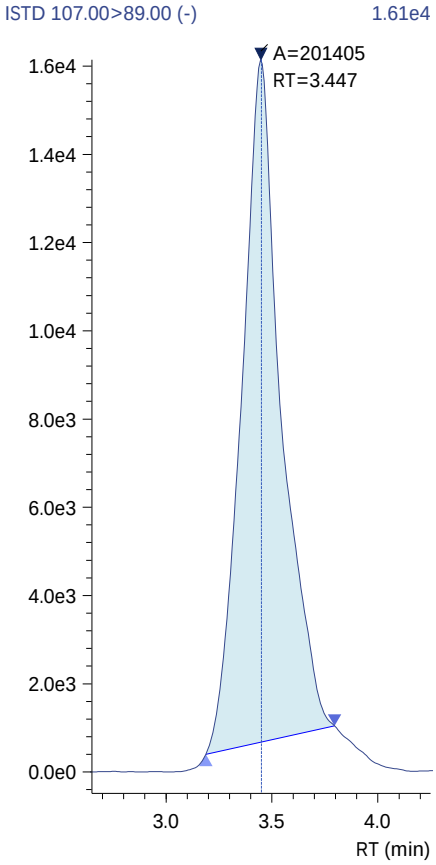
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:57:40 AM

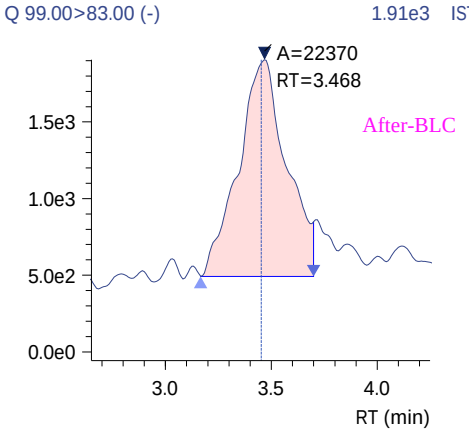
E2400685-001X10

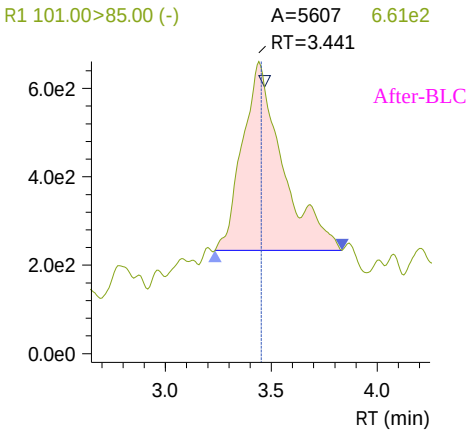
Sample ID: E2400685-001
Date Acquired: 6/24/2024 10:47:59 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.468	22370	246928	0.6205	ng/mL	101.00 >85.00	25.07	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.451	246928	246928	1.0000	ng/mL	----	----	

Perchlorate

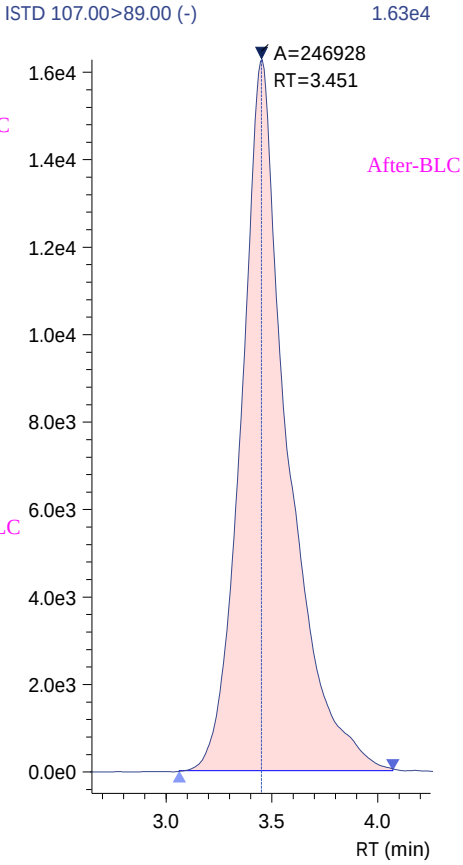
Conc 0.6205
R#1 25.07 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:58:29 AM

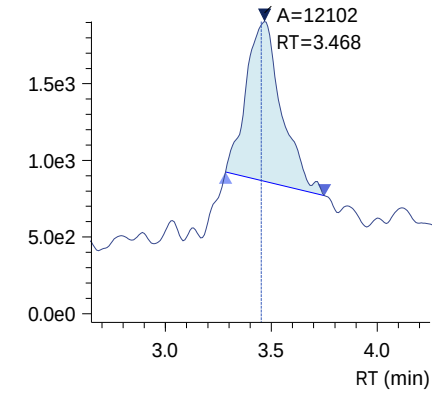
E2400685-001X10

Sample ID: E2400685-001
Date Acquired: 6/24/2024 10:47:59 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 5

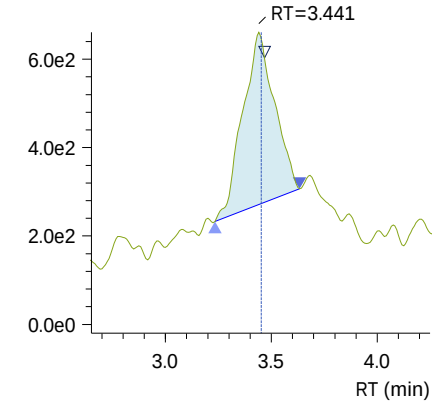
Perchlorate

Conc 0.3842
R#1 33.54 (35.24)

Q 99.00>83.00 (-) 1.91e3



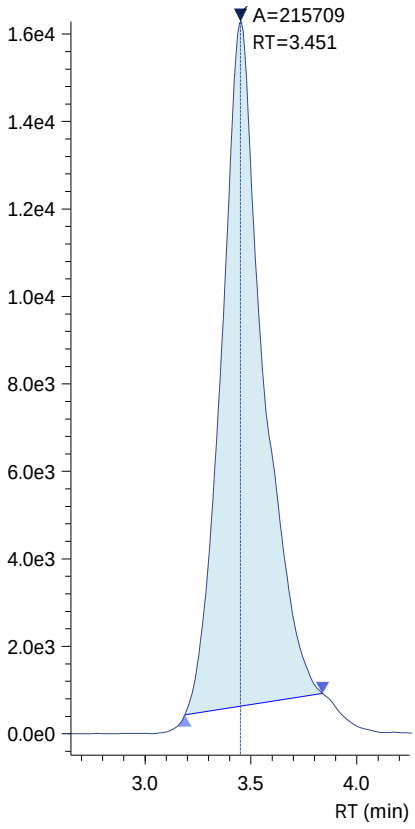
R1 101.00>85.00 (-) A=4059 6.61e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.63e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

E2400685-006X100

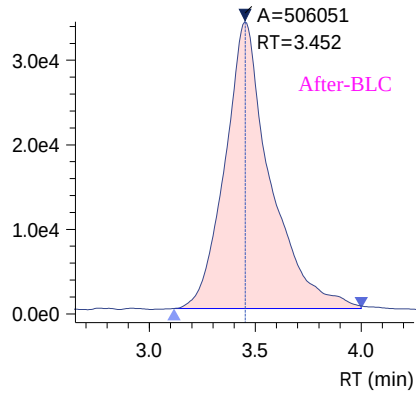
Sample ID: E2400685-006
Date Acquired: 6/24/2024 10:53:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-013.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.452	506051	214616	16.1 497	ng/mL	101.00 >85.00	35.06	23.32 -42.73
Sodium Perchlorate -18O4_IS	M	3.449	214616	214616	1.0000	ng/mL	----	----	

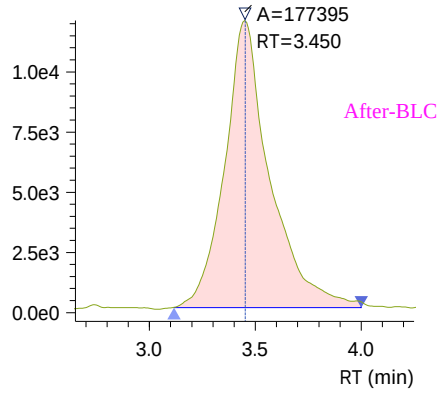
Perchlorate

Conc 16.1497
R#1 35.06 (35.24)

Q 99.00>83.00 (-) 3.46e4



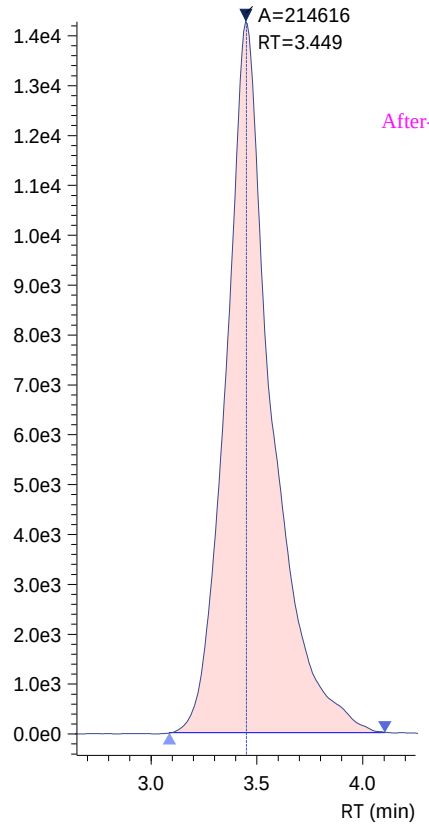
R1 101.00>85.00 (-) 1.21e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.43e4



Insight Report

Printed at 6/26/2024 11:58:29 AM

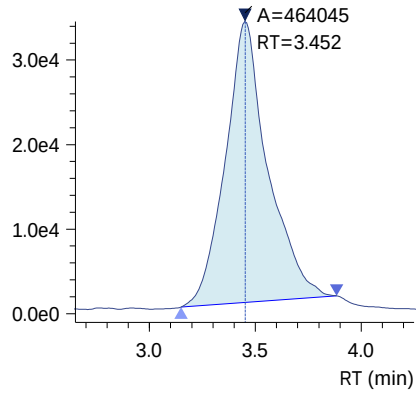
E2400685-006X100

Sample ID: E2400685-006
Date Acquired: 6/24/2024 10:53:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-013.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 5

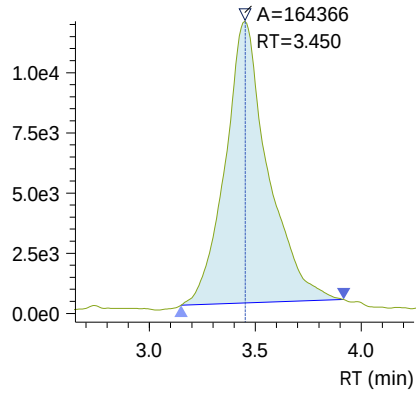
Perchlorate

Conc 16.6879
R#1 35.42 (35.24)

Q 99.00>83.00 (-) 3.46e4



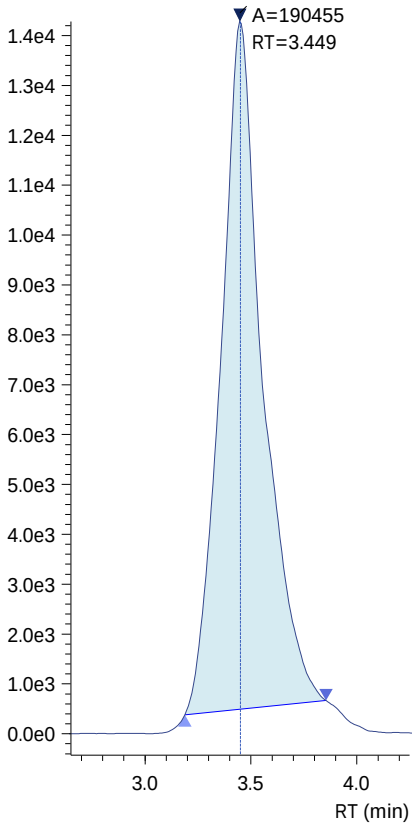
R1 101.00>85.00 (-) 1.21e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.43e4



Insight Report

Printed at 6/26/2024 11:57:40 AM

E2400685-007X500

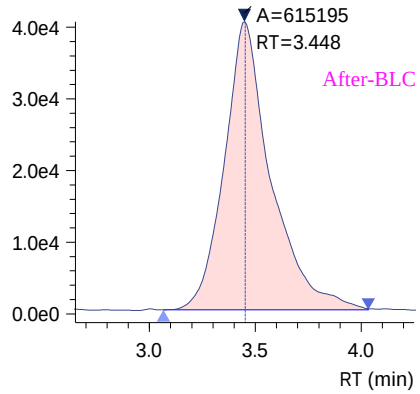
Sample ID: E2400685-007
Date Acquired: 6/24/2024 10:59:03 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-014.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.448	615195	214535	19.6	ng/mL	101.00	33.44	23.32
					403		>85.00		-42.73
Sodium Perchlorate -18O4_IS	M	3.450	214535	214535	1.0000	ng/mL	----	----	

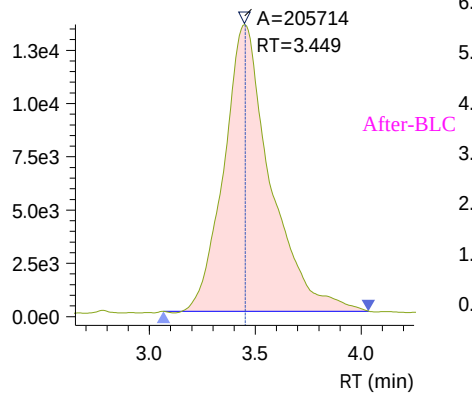
Perchlorate

Conc 19.6403
R#1 33.44 (35.24)

Q 99.00>83.00 (-) 4.08e4



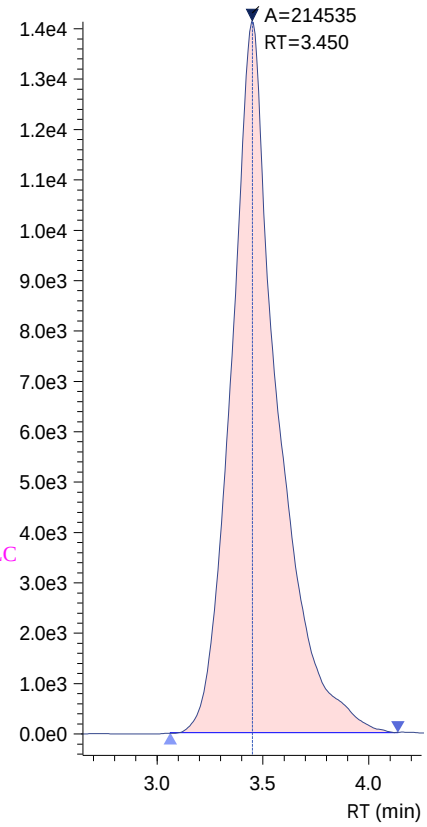
R1 101.00>85.00 (-) 1.37e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4



Insight Report

Printed at 6/26/2024 11:58:29 AM

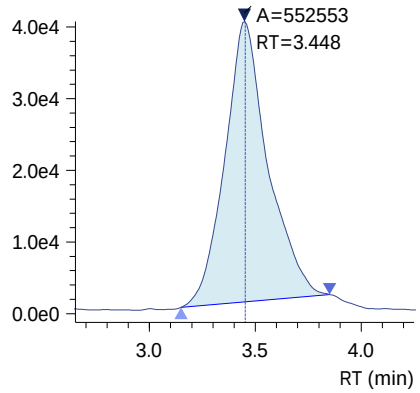
E2400685-007X500

Sample ID: E2400685-007
Date Acquired: 6/24/2024 10:59:03 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240624\20240624-014.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 5

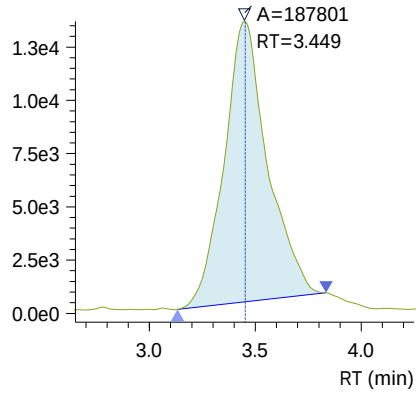
Perchlorate

Conc 19.9270
R#1 33.99 (35.24)

Q 99.00>83.00 (-) 4.08e4



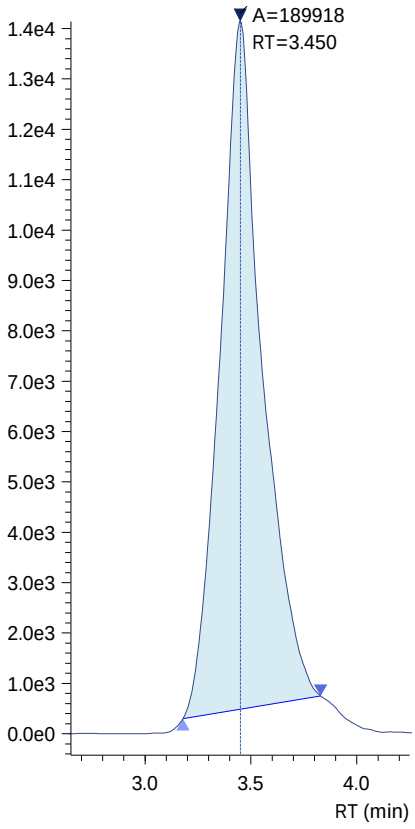
R1 101.00>85.00 (-) 1.37e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.41e4



HS24060899 LHAAP 18 24 COVER PAGE REV01

ALS WO# HS24060899

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Table of Contents

HS24060899 LHAAP 18 24 COVER PAGE REV01
- CoverPage
- HS24060899 LHAAP 18 24 Final REV01
  - CoverLetter
  - Sample Summary
  - CaseNarrative
  - MW12_061324
  - 1824DPTMW06_061324
  - AWD4_061324
  - 18CPTMW15_061324
  - 18WW09_061324
  - 18WW08_061324
  - 18WW22_061324
  - CO4_061324
  - Trip Blank
  - Weight/Volume Log
  - Dates Report
  - QC
  - Acronyms
  - Certifications
  - SampleReceiptCheckList
  - COC

Table of Contents (continued)

HS24060899 E2400691 Perch Level II Report
HS24060899 ALS Middletown Report 3366031_333106
HS24060899-MSSEMI-SW8270SIM
Form 2 - Surrogates
Form 3B - LCS/LCSD
Form 4 - MB Assoc
Form 5 - Tune
Form 6 - ICAL
Form 6I - ICV
Form 7 - CCV
Form 8 - ISTD
Form 12 - Prep Log
Run Log
Raw Data SV_6_470172 240621
Raw Data SV_6_470172 240629
Raw Data SV_6_472536 240418
HS24060899 - ME - HG_W_DODICP_W_DOD
Form 13 - HG04_470273 Run Log
Form 13 - ICPMS07_470364 Run Log
Form 13 - ICPMS07_470472 Run Log
Form 2 - HG04_470273 CCV
Form 2 - ICPMS07_470364 CCV
Form 2 - ICPMS07_470472 CCV
Form 3 - HG04_470273 CCB
Form 3 - ICPMS07_470364 CCB
Form 3 - ICPMS07_470472 CCB
Form 4 - ICPMS07_470364 ICSA
Form 4 - ICPMS07_470472 ICSA
Form 5A - HG04_470273 MS
Form 5A - ICPMS07_470364 MS
Form 5A - ICPMS07_470472 MS
Form 5B - ICPMS07_470364 PDS
Form 5B - ICPMS07_470472 PDS
Form 7 - HG04_470273 LCS
Form 7 - ICPMS07_470364 LCS

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WorkOrder: HS24060899

LHAAP 18 24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

19-Sep-2024

HS24060899 LHAAP 18 24 Final REV01

ALS WO# HS24060899

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August 30, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24060899**

Laboratory Results for: **LHAAP 18 24**

Dear Marcia Olive,

ALS Environmental received 9 sample(s) on Jun 14, 2024 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Work Order: HS24060899

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24060899-01	MW12_061324	Water		13-Jun-2024 07:15	14-Jun-2024 09:20	☐
HS24060899-02	1824DPTMW06_061324	Water		13-Jun-2024 08:00	14-Jun-2024 09:20	☐
HS24060899-03	AWD4_061324	Water		13-Jun-2024 08:45	14-Jun-2024 09:20	☐
HS24060899-04	18CPTMW15_061324	Water		13-Jun-2024 09:30	14-Jun-2024 09:20	☐
HS24060899-05	18WW09_061324	Water		13-Jun-2024 10:20	14-Jun-2024 09:20	☐
HS24060899-06	18WW08_061324	Water		13-Jun-2024 11:00	14-Jun-2024 09:20	☐
HS24060899-07	18WW22_061324	Water		13-Jun-2024 11:45	14-Jun-2024 09:20	☐
HS24060899-08	CO4_061324	Water		13-Jun-2024 12:30	14-Jun-2024 09:20	☐
HS24060899-09	Trip Blank	Water		13-Jun-2024 00:00	14-Jun-2024 09:20	☐

Revision:1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP 18 24
Work Order: HS24060899

Work Order Comments

• This report was revised 08/30/24 to correct the limit of detection values due to laboratory error.

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS High Res Lab Houston, TX. Final report attached.

• The analysis for VOCs was subcontracted to ALS Environmental in Middletown PA, MI. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 213652

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470A

Batch ID: 214008

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 213798

Sample ID: HS24060694-01MS

• MS and MSD are for an unrelated sample

Sample ID: HS24060694-01PDS

• PDS is for an unrelated sample

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW12_061324
Collection Date: 13-Jun-2024 07:15

ANALYTICAL REPORT
WorkOrder:HS24060899
Lab ID:HS24060899-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	01-Jul-2024 11:48

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 1824DPTMW06_061324
Collection Date: 13-Jun-2024 08:00

ANALYTICAL REPORT
WorkOrder:HS24060899
Lab ID:HS24060899-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 17-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.83**		**0.10**	**0.20**	**0.30**	**ug/L**	10	29-Jun-2024 14:40
Surr: 2-Fluorobiphenyl	*124*			**0**	*40-140*	*%REC*	*10*	*29-Jun-2024 14:40*
Surr: 4-Terphenyl-d14	*122*			**0**	*40-140*	*%REC*	*10*	*29-Jun-2024 14:40*
Surr: Nitrobenzene-d5	*118*			**0**	*40-140*	*%REC*	*10*	*29-Jun-2024 14:40*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	01-Jul-2024 11:48

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: AWD4_061324
Collection Date: 13-Jun-2024 08:45

ANALYTICAL REPORT
WorkOrder:HS24060899
Lab ID:HS24060899-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 17-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	21-Jun-2024 18:43
Surr: 2-Fluorobiphenyl	*86.4*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 18:43*
Surr: 4-Terphenyl-d14	*87.8*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 18:43*
Surr: Nitrobenzene-d5	*78.6*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 18:43*
METALS BY ICPMS BY SW6020A	**Method:SW6020A**					Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.148**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 18:11
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 18:11
Arsenic	**0.000666**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:11
Barium	**0.313**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:11
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:11
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:11
Calcium	**35.9**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 18:11
Chromium	**0.211**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:11
Cobalt	**0.00501**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 18:11
Copper	**0.0162**		**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	25-Jun-2024 18:11
Iron	**13.1**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:11
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 18:11
Magnesium	**6.97**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:11
Manganese	**0.0473**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:11
Nickel	**0.558**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:11
Potassium	**0.364**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:11
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 18:11
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 18:11
Sodium	**31.0**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:11
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:11
Vanadium	**0.00459**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:11
Zinc	**0.00864**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:11
MERCURY BY SW7470A	**Method:SW7470A**					Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	**0.0000340**	J	**0.0000300**	**0.000100**	**0.000200**	**mg/L**	1	24-Jun-2024 15:36
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	01-Jul-2024 11:48

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW15_061324
Collection Date: 13-Jun-2024 09:30

ANALYTICAL REPORT
WorkOrder:HS24060899
Lab ID:HS24060899-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 17-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	21-Jun-2024 19:01
Surr: 2-Fluorobiphenyl	*102*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:01*
Surr: 4-Terphenyl-d14	*107*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:01*
Surr: Nitrobenzene-d5	*94.8*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:01*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	01-Jul-2024 11:48

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW09_061324
Collection Date: 13-Jun-2024 10:20

ANALYTICAL REPORT
WorkOrder:HS24060899
Lab ID:HS24060899-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 17-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	21-Jun-2024 19:18
Surr: 2-Fluorobiphenyl	*66.2*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:18*
Surr: 4-Terphenyl-d14	*70.9*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:18*
Surr: Nitrobenzene-d5	*72.4*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:18*
METALS BY ICPMS BY SW6020A	**Method:SW6020A**					Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.116**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 18:14
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 18:14
Arsenic	**0.00401**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:14
Barium	**0.258**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:14
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:14
Cadmium	**0.000315**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	25-Jun-2024 18:14
Calcium	**17.6**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 18:14
Chromium	**0.0131**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:14
Cobalt	**0.000594**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 18:14
Copper	**0.00134**	J	**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	25-Jun-2024 18:14
Iron	**38.9**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:14
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 18:14
Magnesium	**9.87**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:14
Manganese	**0.777**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:14
Nickel	**0.00860**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:14
Potassium	**2.07**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:14
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 18:14
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 18:14
Sodium	**45.8**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:14
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:14
Vanadium	**0.00181**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:14
Zinc	**0.00727**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:14
MERCURY BY SW7470A	**Method:SW7470A**					Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:38
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW08_061324
Collection Date: 13-Jun-2024 11:00

ANALYTICAL REPORT
WorkOrder:HS24060899
Lab ID:HS24060899-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 17-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	21-Jun-2024 19:36
Surr: 2-Fluorobiphenyl	*81.2*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:36*
Surr: 4-Terphenyl-d14	*63.8*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:36*
Surr: Nitrobenzene-d5	*75.6*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:36*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	01-Jul-2024 11:48

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW22_061324
Collection Date: 13-Jun-2024 11:45

ANALYTICAL REPORT
WorkOrder:HS24060899
Lab ID:HS24060899-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 17-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	21-Jun-2024 19:53
Surr: 2-Fluorobiphenyl	*81.2*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:53*
Surr: 4-Terphenyl-d14	*72.6*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:53*
Surr: Nitrobenzene-d5	*79.9*			**0**	*40-140*	*%REC*	*1*	*21-Jun-2024 19:53*
METALS BY ICPMS BY SW6020A	**Method:SW6020A**					Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.0727**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 18:16
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 18:16
Arsenic	**0.000560**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:16
Barium	**0.110**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:16
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:16
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:16
Calcium	**38.5**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 18:16
Chromium	**0.00989**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:16
Cobalt	**0.000163**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 18:16
Copper	0.00200	U	0.00100	0.00200	0.00500	mg/L	1	25-Jun-2024 18:16
Iron	**0.0286**	J	**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:16
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 18:16
Magnesium	**2.76**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:16
Manganese	**0.00389**	J	**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:16
Nickel	**0.000650**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:16
Potassium	**1.73**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:16
Selenium	**0.00110**	J	**0.00110**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:16
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 18:16
Sodium	**19.7**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 18:16
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 18:16
Vanadium	**0.00649**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 18:16
Zinc	**0.0106**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 18:16
MERCURY BY SW7470A	**Method:SW7470A**					Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:40
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)	**Method:NA**							Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	01-Jul-2024 11:48

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO4_061324
Collection Date: 13-Jun-2024 12:30

ANALYTICAL REPORT
WorkOrder:HS24060899
Lab ID:HS24060899-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58
SUBCONTRACT ANALYSIS -VOC ANALYSIS		**Method:SUBCONTRACT**						Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	01-Jul-2024 11:48

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 13-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24060899
Lab ID:HS24060899-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS -VOC ANALYSIS	**Method:SUBCONTRACT**							Analyst: SUB
Subcontracted Analyses	See Attached		0	0		NA	1	01-Jul-2024 11:48

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Batch ID: 213652 **Start Date:** 17 Jun 2024 14:08 **End Date:** 17 Jun 2024 14:08
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060899-02	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060899-03	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060899-04	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060899-05	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060899-06	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060899-07	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 213798 **Start Date:** 19 Jun 2024 15:00 **End Date:** 19 Jun 2024 15:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060899-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060899-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060899-07		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 214008 **Start Date:** 24 Jun 2024 09:00 **End Date:** 24 Jun 2024 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060899-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060899-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060899-07		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213652 (1)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS24060899-02	1824DPTMW06_061324	13 Jun 2024 08:00		17 Jun 2024 14:08	29 Jun 2024 14:40	10
HS24060899-03	AWD4_061324	13 Jun 2024 08:45		17 Jun 2024 14:08	21 Jun 2024 18:43	1
HS24060899-04	18CPTMW15_061324	13 Jun 2024 09:30		17 Jun 2024 14:08	21 Jun 2024 19:01	1
HS24060899-05	18WW09_061324	13 Jun 2024 10:20		17 Jun 2024 14:08	21 Jun 2024 19:18	1
HS24060899-06	18WW08_061324	13 Jun 2024 11:00		17 Jun 2024 14:08	21 Jun 2024 19:36	1
HS24060899-07	18WW22_061324	13 Jun 2024 11:45		17 Jun 2024 14:08	21 Jun 2024 19:53	1
Batch ID: 213798 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS24060899-03	AWD4_061324	13 Jun 2024 08:45		19 Jun 2024 15:00	25 Jun 2024 18:11	1
HS24060899-05	18WW09_061324	13 Jun 2024 10:20		19 Jun 2024 15:00	25 Jun 2024 18:14	1
HS24060899-07	18WW22_061324	13 Jun 2024 11:45		19 Jun 2024 15:00	25 Jun 2024 18:16	1
Batch ID: 214008 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS24060899-03	AWD4_061324	13 Jun 2024 08:45		24 Jun 2024 09:00	24 Jun 2024 15:36	1
HS24060899-05	18WW09_061324	13 Jun 2024 10:20		24 Jun 2024 09:00	24 Jun 2024 15:38	1
HS24060899-07	18WW22_061324	13 Jun 2024 11:45		24 Jun 2024 09:00	24 Jun 2024 15:40	1
Batch ID: R470524 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24060899-01	MW12_061324	13 Jun 2024 07:15			26 Jun 2024 15:58	1
HS24060899-02	1824DPTMW06_061324	13 Jun 2024 08:00			26 Jun 2024 15:58	1
HS24060899-03	AWD4_061324	13 Jun 2024 08:45			26 Jun 2024 15:58	1
HS24060899-04	18CPTMW15_061324	13 Jun 2024 09:30			26 Jun 2024 15:58	1
HS24060899-05	18WW09_061324	13 Jun 2024 10:20			26 Jun 2024 15:58	1
HS24060899-06	18WW08_061324	13 Jun 2024 11:00			26 Jun 2024 15:58	1
HS24060899-07	18WW22_061324	13 Jun 2024 11:45			26 Jun 2024 15:58	1
HS24060899-08	CO4_061324	13 Jun 2024 12:30			26 Jun 2024 15:58	1
Batch ID: R470928 (0)	**Test Name :** SUBCONTRACT ANALYSIS -VOC ANALYSIS				**Matrix:** Water	
HS24060899-01	MW12_061324	13 Jun 2024 07:15			01 Jul 2024 11:48	1
HS24060899-02	1824DPTMW06_061324	13 Jun 2024 08:00			01 Jul 2024 11:48	1
HS24060899-03	AWD4_061324	13 Jun 2024 08:45			01 Jul 2024 11:48	1
HS24060899-04	18CPTMW15_061324	13 Jun 2024 09:30			01 Jul 2024 11:48	1
HS24060899-06	18WW08_061324	13 Jun 2024 11:00			01 Jul 2024 11:48	1
HS24060899-07	18WW22_061324	13 Jun 2024 11:45			01 Jul 2024 11:48	1
HS24060899-08	CO4_061324	13 Jun 2024 12:30			01 Jul 2024 11:48	1
HS24060899-09	Trip Blank	13 Jun 2024 00:00			01 Jul 2024 11:48	1

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-213798** Units: **mg/L** Analysis Date: **25-Jun-2024 16:47**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098138** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00500	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	0.0500	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Copper	0.00200	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.0500	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	0.0500	0.200								U
Selenium	0.00125	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.0500	0.200								U
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-213798** Units: **mg/L** Analysis Date: **25-Jun-2024 16:49**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098139** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1052	0.0100	0.1	0	105	84 - 117				
Antimony	0.04871	0.00500	0.05	0	97.4	85 - 117				
Arsenic	0.04717	0.00500	0.05	0	94.3	84 - 116				
Barium	0.04674	0.00500	0.05	0	93.5	86 - 114				
Beryllium	0.04651	0.00200	0.05	0	93.0	83 - 121				
Cadmium	0.04653	0.00200	0.05	0	93.1	87 - 115				
Calcium	4.767	0.500	5	0	95.3	87 - 118				
Chromium	0.04717	0.00500	0.05	0	94.3	85 - 116				
Cobalt	0.04762	0.00500	0.05	0	95.2	86 - 115				
Copper	0.04783	0.00500	0.05	0	95.7	85 - 118				
Iron	4.812	0.200	5	0	96.2	87 - 118				
Lead	0.04643	0.00500	0.05	0	92.9	88 - 115				
Magnesium	4.807	0.200	5	0	96.1	83 - 118				
Manganese	0.0491	0.00500	0.05	0	98.2	87 - 115				
Nickel	0.04837	0.00500	0.05	0	96.7	85 - 117				
Potassium	4.747	0.200	5	0	94.9	87 - 115				
Selenium	0.04719	0.00500	0.05	0	94.4	80 - 120				
Silver	0.04793	0.00500	0.05	0	95.9	85 - 116				
Sodium	4.68	0.200	5	0	93.6	85 - 117				
Vanadium	0.04634	0.00500	0.05	0	92.7	86 - 115				
Zinc	0.05509	0.00500	0.05	0	110	83 - 119				

LCS Sample ID: **LCS-213798** Units: **mg/L** Analysis Date: **25-Jun-2024 17:33**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098251** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04452	0.00200	0.05	0	89.0	82 - 116				

MS Sample ID: **HS24060694-01MS** Units: **mg/L** Analysis Date: **26-Jun-2024 12:18**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099863** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1173	0.0100	0.1	0.002952	114	84 - 117				
Zinc	0.1187	0.00500	0.1	0.004939	114	83 - 119				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS24060694-01MS** Units: **mg/L** Analysis Date: **25-Jun-2024 16:56**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098177** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04964	0.00500	0.05	0.000292	98.7	85 - 117				
Arsenic	0.04935	0.00500	0.05	0.000343	98.0	84 - 116				
Barium	0.2443	0.00500	0.05	0.1994	89.7	86 - 114				
Beryllium	0.04889	0.00200	0.05	0.000021	97.7	83 - 121				
Cadmium	0.04823	0.00200	0.05	0.000148	96.2	87 - 115				
Calcium	20.76	0.500	5	16.2	91.3	87 - 118				
Chromium	0.04865	0.00500	0.05	0.00175	93.8	85 - 116				
Cobalt	0.04827	0.00500	0.05	0.000901	94.7	86 - 115				
Copper	0.04862	0.00500	0.05	0.00114	95.0	85 - 118				
Iron	5.025	0.200	5	0.2217	96.1	87 - 118				
Lead	0.04803	0.00500	0.05	0.000086	95.9	88 - 115				
Magnesium	13.19	0.200	5	8.499	93.8	83 - 118				
Nickel	0.05024	0.00500	0.05	0.004569	91.3	85 - 117				
Potassium	5.948	0.200	5	1.123	96.5	87 - 115				
Selenium	0.04935	0.00500	0.05	0.00032	98.1	80 - 120				
Silver	0.04755	0.00500	0.05	0.000045	95.0	85 - 116				
Thallium	0.04175	0.00200	0.05	0.000012	83.5	82 - 116				
Vanadium	0.04894	0.00500	0.05	0.001125	95.6	86 - 115				

MS Sample ID: **HS24060694-01MS** Units: **mg/L** Analysis Date: **25-Jun-2024 18:43**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098368** PrepDate: **19-Jun-2024** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.2392	0.0100	0.05	0.2035	71.5	87 - 115				SO
Sodium	179.5	0.400	5	180.2	-14.1	85 - 117				SO

MSD Sample ID: **HS24060694-01MSD** Units: **mg/L** Analysis Date: **26-Jun-2024 12:20**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099864** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1143	0.0100	0.1	0.002952	111	84 - 117	0.1173	2.55	20	
Zinc	0.1175	0.00500	0.1	0.004939	113	83 - 119	0.1187	1.03	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS24060694-01MSD** Units: **mg/L** Analysis Date: **25-Jun-2024 16:59**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098178** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04977	0.00500	0.05	0.000292	98.9	85 - 117	0.04964	0.243	20	
Arsenic	0.04962	0.00500	0.05	0.000343	98.6	84 - 116	0.04935	0.538	20	
Barium	0.2438	0.00500	0.05	0.1994	88.6	86 - 114	0.2443	0.211	20	
Beryllium	0.04908	0.00200	0.05	0.000021	98.1	83 - 121	0.04889	0.378	20	
Cadmium	0.04843	0.00200	0.05	0.000148	96.6	87 - 115	0.04823	0.422	20	
Calcium	20.95	0.500	5	16.2	95.0	87 - 118	20.76	0.884	20	
Chromium	0.04885	0.00500	0.05	0.00175	94.2	85 - 116	0.04865	0.404	20	
Cobalt	0.04879	0.00500	0.05	0.000901	95.8	86 - 115	0.04827	1.07	20	
Copper	0.0489	0.00500	0.05	0.00114	95.5	85 - 118	0.04862	0.574	20	
Iron	5.078	0.200	5	0.2217	97.1	87 - 118	5.025	1.06	20	
Lead	0.04829	0.00500	0.05	0.000086	96.4	88 - 115	0.04803	0.538	20	
Magnesium	13.31	0.200	5	8.499	96.2	83 - 118	13.19	0.9	20	
Nickel	0.05052	0.00500	0.05	0.004569	91.9	85 - 117	0.05024	0.572	20	
Potassium	5.971	0.200	5	1.123	96.9	87 - 115	5.948	0.382	20	
Selenium	0.05066	0.00500	0.05	0.00032	101	80 - 120	0.04935	2.62	20	
Silver	0.04765	0.00500	0.05	0.000045	95.2	85 - 116	0.04755	0.208	20	
Thallium	0.04249	0.00200	0.05	0.000012	85.0	82 - 116	0.04175	1.76	20	
Vanadium	0.04903	0.00500	0.05	0.001125	95.8	86 - 115	0.04894	0.171	20	

MSD Sample ID: **HS24060694-01MSD** Units: **mg/L** Analysis Date: **25-Jun-2024 18:46**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098369** PrepDate: **19-Jun-2024** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.2375	0.0100	0.05	0.2035	68.0	87 - 115	0.2392	0.73	20	SO
Sodium	178	0.400	5	180.2	-43.0	85 - 117	179.5	0.809	20	SO

PDS Sample ID: **HS24060694-01PDS** Units: **mg/L** Analysis Date: **26-Jun-2024 12:23**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099865** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1129	0.0100	0.1	0.002952	110	80 - 120				
Zinc	0.1159	0.00500	0.1	0.004939	111	80 - 120				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24060694-01PDS** Units: **mg/L** Analysis Date: **25-Jun-2024 17:01**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098179** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09399	0.00500	0.1	0.000292	93.7	80 - 120				
Arsenic	0.09435	0.00500	0.1	0.000343	94.0	80 - 120				
Barium	0.2823	0.00500	0.1	0.1994	82.9	80 - 120				
Beryllium	0.0926	0.00200	0.1	0.000021	92.6	80 - 120				
Cadmium	0.09298	0.00200	0.1	0.000148	92.8	80 - 120				
Chromium	0.09246	0.00500	0.1	0.00175	90.7	80 - 120				
Cobalt	0.09298	0.00500	0.1	0.000901	92.1	80 - 120				
Copper	0.0925	0.00500	0.1	0.00114	91.4	80 - 120				
Iron	9.522	0.200	10	0.2217	93.0	80 - 120				
Lead	0.09322	0.00500	0.1	0.000086	93.1	80 - 120				
Magnesium	17.23	0.200	10	8.499	87.3	80 - 120				
Nickel	0.09341	0.00500	0.1	0.004569	88.8	80 - 120				
Potassium	10.32	0.200	10	1.123	91.9	80 - 120				
Selenium	0.09383	0.00500	0.1	0.00032	93.5	80 - 120				
Silver	0.09478	0.00500	0.1	0.000045	94.7	80 - 120				
Thallium	0.09304	0.00200	0.1	0.000012	93.0	80 - 120				
Vanadium	0.09318	0.00500	0.1	0.001125	92.1	80 - 120				

PDS Sample ID: **HS24060694-01PDS** Units: **mg/L** Analysis Date: **25-Jun-2024 18:48**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098372** PrepDate: **19-Jun-2024** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.2838	0.0100	0.1	0.2035	80.4	80 - 120				
Sodium	180.9	0.400	10	180.2	7.39	80 - 120				SO

SD Sample ID: **HS24060694-01SD** Units: **mg/L** Analysis Date: **26-Jun-2024 12:15**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099862** PrepDate: **19-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.0250	0.0500					0.002952	0	10	U
Zinc	0.0125	0.0250					0.004939	0	10	U

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24060694-01SD** Units: **mg/L** Analysis Date: **25-Jun-2024 16:52**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098175** PrepDate: **19-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	0.00625	0.0250					0.000292	0	10	U
Arsenic	0.00625	0.0250					0.000343	0	10	U
Barium	0.1984	0.0250					0.1994	0.5	10	
Beryllium	0.00250	0.0100					0.000021	0	10	U
Cadmium	0.00250	0.0100					0.000148	0	10	U
Calcium	16.25	2.50					16.2	0.343	10	
Chromium	0.00625	0.0250					0.00175	0	10	U
Cobalt	0.000932	0.0250					0.000901	0	10	J
Copper	0.0100	0.0250					0.00114	0	10	U
Iron	0.2285	1.00					0.2217	0	10	J
Lead	0.00625	0.0250					0.000086	0	10	U
Magnesium	8.733	1.00					8.499	2.76	10	
Nickel	0.004624	0.0250					0.004569	0	10	J
Potassium	1.108	1.00					1.123	1.38	10	
Selenium	0.00625	0.0250					0.00032	0	10	U
Silver	0.00250	0.0250					0.000045	0	10	U
Thallium	0.00250	0.0100					0.000012	0	10	U
Vanadium	0.00625	0.0250					0.001125	0	10	U

SD Sample ID: **HS24060694-01SD** Units: **mg/L** Analysis Date: **25-Jun-2024 18:41**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098367** PrepDate: **19-Jun-2024** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Manganese	0.2064	0.0500					0.2035	1.45	10	
Sodium	181.9	2.00					180.2	0.971	10	

The following samples were analyzed in this batch: HS24060899-03 HS24060899-05 HS24060899-07

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

QC BATCH REPORT

Batch ID: 214008 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-214008** Units: **mg/L** Analysis Date: **24-Jun-2024 14:42**
Client ID: Run ID: **HG04_470273** SeqNo: **8094701** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000100	0.000200								U

LCS Sample ID: **LCS-214008** Units: **mg/L** Analysis Date: **24-Jun-2024 14:44**
Client ID: Run ID: **HG04_470273** SeqNo: **8094702** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00494	0.000200	0.005	0	98.8	82 - 119				

MS Sample ID: **HS24060694-02MS** Units: **mg/L** Analysis Date: **24-Jun-2024 14:49**
Client ID: Run ID: **HG04_470273** SeqNo: **8094705** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00476	0.000200	0.005	0.00001400	94.9	82 - 119				

MSD Sample ID: **HS24060694-02MSD** Units: **mg/L** Analysis Date: **24-Jun-2024 14:51**
Client ID: Run ID: **HG04_470273** SeqNo: **8094706** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00469	0.000200	0.005	0.00001400	93.5	82 - 119	0.004760	1.48	20	

The following samples were analyzed in this batch: HS24060899-03 HS24060899-05 HS24060899-07

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

QC BATCH REPORT

Batch ID: 213652 (1) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-213652** Units: **ug/L** Analysis Date: **21-Jun-2024 15:04**
Client ID: Run ID: **SV-6_470172** SeqNo: **8092531** PrepDate: **17-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.020	0.030								U
Surr: 2-Fluorobiphenyl	*0.06401*	*0*	*0.08*	*0*	*80.0*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.07103*	*0*	*0.08*	*0*	*88.8*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06382*	*0*	*0.08*	*0*	*79.8*	*40 - 140*				

LCS Sample ID: **LCS1-213652** Units: **ug/L** Analysis Date: **21-Jun-2024 15:21**
Client ID: Run ID: **SV-6_470172** SeqNo: **8092532** PrepDate: **17-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07522	0.030	0.08	0	94.0	40 - 140				
Surr: 2-Fluorobiphenyl	*0.07364*	*0*	*0.08*	*0*	*92.1*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.0688*	*0*	*0.08*	*0*	*86.0*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.0665*	*0*	*0.08*	*0*	*83.1*	*40 - 140*				

LCSD Sample ID: **LCSD1-213652** Units: **ug/L** Analysis Date: **21-Jun-2024 15:39**
Client ID: Run ID: **SV-6_470172** SeqNo: **8092533** PrepDate: **17-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0887	0.030	0.08	0	111	40 - 140	0.07522	16.5	20	
Surr: 2-Fluorobiphenyl	*0.07494*	*0*	*0.08*	*0*	*93.7*	*40 - 140*	*0.07364*	*1.75*	*20*	
Surr: 4-Terphenyl-d14	*0.07913*	*0*	*0.08*	*0*	*98.9*	*40 - 140*	*0.0688*	*14*	*20*	
Surr: Nitrobenzene-d5	*0.06969*	*0*	*0.08*	*0*	*87.1*	*40 - 140*	*0.0665*	*4.69*	*20*	

The following samples were analyzed in this batch: HS24060899-02 HS24060899-03 HS24060899-04 HS24060899-05 HS24060899-06 HS24060899-07

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: **HS24060899**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L22-90-R2	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Sep-2024
Oklahoma	2023-140	31-Aug-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Sample Receipt Checklist

Work Order ID: HS24060899 **Date/Time Received:** 14-Jun-2024 09:20

Client Name: Bhate Environmental **Received by:** Ragen Giga

Completed By:	/S/ Nilesh D. Ranchod	14-Jun-2024 14:49	**Reviewed by:**	/S/ Luis.Aguilar	17-Jun-2024 22:58
	eSignature	Date/Time		eSignature	Date/Time

Matrices: w Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.2C/1.3C UC/C	ir31
Cooler(s)/Kit(s):	blue	
Date/Time sample(s) sent to storage:	06/14/2024 15:00	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

bhate

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Page: ____ of ____

Project/Phase No: JVPCIBH.0001

COC Number(1): ____

UMS Number: ____

Facility/Base I.D.: LHAAP / **BILL to PCI**

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1,4 - DIOXANE	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Comments
MW12_061324	13-Jun-2024	0715	-	N		WG	4	X	X						
MW12_061324_MS	13-Jun-2024	0715	-	MS		WG	4	X	X						
MW12_061324_MSD	13-Jun-2024	0715	-	SD		WG	4	X	X						
1824DPTMW06_061324	13-Jun-2024	0800		N		WG	5	X	X		X				
AWDY_061324	13-Jun-2024	0845		N		WG	6	X	X	X	X				
18GPTMW15_061324	13-Jun-2024	0930	-	N		WG	5	X	X		X				
18MW09_061324	13-Jun-2024	1020	-	N		WG	3		X	X	X				
18MW08_061324	13-Jun-2024	1100	-	N		WG	5	X	X		X				
18MW22_061324	13-Jun-2024	1145	-	N		WG	6	X	X	X	X				
CO4_061324	13-Jun-2024	1230	-	N		WG	4	X	X						
TRIP BLANK	13-Jun-2024		-	TB		W	2	X							

Sample Analysis Requested (5) | Quality Assurance Samples (6)

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished by (Signed)	Date	Time	Received by (Signed)	Date	Time
1. Scott Beesinger	6/13/24	1400	1. R Cruz	6/14/24	09:20
2.			2.		1:20
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped ____ No.:

Method of Shipment: ____

Fed Ex ____ Airbill Number: ____

Analytical Lab: ALS 10450 Stanlift Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dave Wacasey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

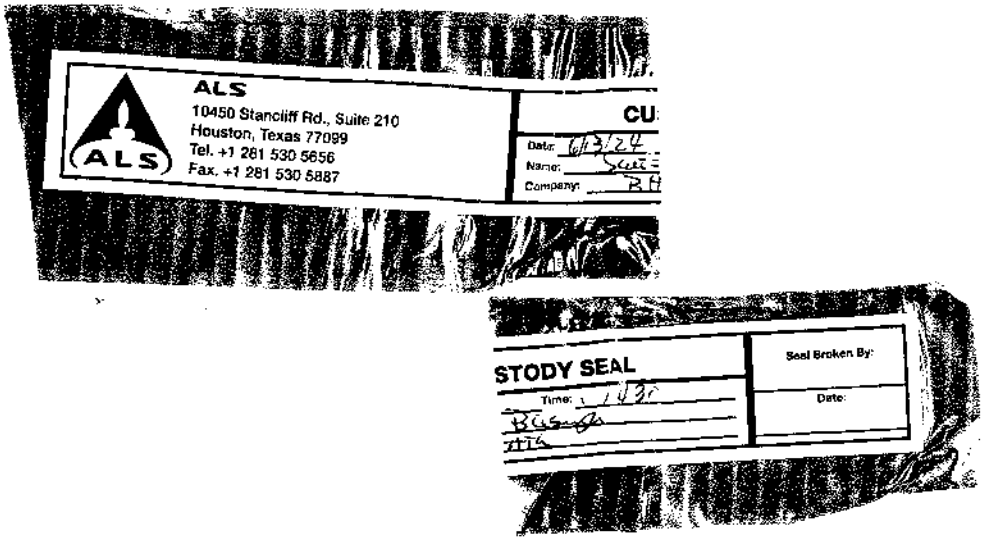
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

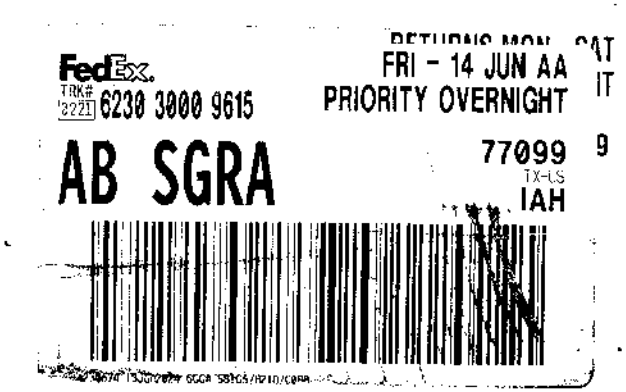
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

Bhate Environmental Associates, Inc.
LHAAP 18 24

HS2406089

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June 26, 2024 Service Request No:E2400691

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24060899

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 14, 2024
For your reference, these analyses have been assigned our service request number **E2400691.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

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Client:	ALS Environmental - US	**Service Request No.:**	E2400691
Project:	HS24060899	**Date Received:**	06/14/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 06/14/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400335: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400691
Project: HS24060899

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400691-001	MW12_061324	6/13/2024	0715
E2400691-002	1824DPTMW06_061324	6/13/2024	0800
E2400691-003	AWD4_061324	6/13/2024	0845
E2400691-004	18CPTMW15_061324	6/13/2024	0930
E2400691-005	18WW09_061324	6/13/2024	1020
E2400691-006	18WW08_061324	6/13/2024	1100
E2400691-007	18WW22_061324	6/13/2024	1145
E2400691-008	CO4_061324	6/13/2024	1230

Service Request Summary

Folder #: **E2400691**
Client Name: ALS Environmental - US
Project Name: HS24060899
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/14/24
Internal Due Date: 6/26/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 10C
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400691-001	MW12_061324	Water	06/13/24 0715	**IV**
E2400691-002	1824DPTMW06_061324	Water	06/13/24 0800	**IV**
E2400691-003	AWD4_061324	Water	06/13/24 0845	**IV**
E2400691-004	18CPTMW15_061324	Water	06/13/24 0930	**IV**
E2400691-005	18WW09_061324	Water	06/13/24 1020	**IV**
E2400691-006	18WW08_061324	Water	06/13/24 1100	**IV**
E2400691-007	18WW22_061324	Water	06/13/24 1145	**IV**
E2400691-008	CO4_061324	Water	06/13/24 1230	**IV**

Service Request Summary

Folder #: **E2400691**
Client Name: ALS Environmental - US
Project Name: HS24060899
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/14/24
Internal Due Date: 6/26/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 10C
Pressure Gas:

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Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
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E2400691 5
ALS Laboratory Group
HS24060899

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26012**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060899
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060899-01**	**MW12_061324**	**Water**	**13 Jun 2024 07:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
2.	**HS24060899-02**	**1824DPTMW06_061324**	**Water**	**13 Jun 2024 08:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
3.	**HS24060899-03**	**AWD4_061324**	**Water**	**13 Jun 2024 08:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
4.	**HS24060899-04**	**18CPTMW15_061324**	**Water**	**13 Jun 2024 09:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
5.	**HS24060899-05**	**18WW09_061324**	**Water**	**13 Jun 2024 10:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
6.	**HS24060899-06**	**18WW08_061324**	**Water**	**13 Jun 2024 11:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
7.	**HS24060899-07**	**18WW22_061324**	**Water**	**13 Jun 2024 11:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024
8.	**HS24060899-08**	**CO4_061324**	**Water**	**13 Jun 2024 12:30**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **26012**

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			28 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
HS24060899-01 MS/MSD

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 6-14-24 1744

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E2400691 5
ALS Laboratory Group
HS24060899

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Sample Receipt Checklist

Work Order ID: HS24060899 **Date/Time received:** 14 Jun 2024 09:20

Client name: Bhate Environmental Associates, Inc. **Received by:** Ragen Giga

Completed/By: 14 Jun 2024 14:49 Nilesh D. Ranchod (Date/Time / eSignature) **Reviewed/By:** (Date/Time / eSignature)

Matrices: w **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	2 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 1.2C/1.3C UC/C ir31

Cooler Information: 1 Cooler(s), blue

Date/Time sample(s) sent to storage: 06/14/2024 15:00

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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Houston, TX 77099
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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
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Phone (281)530-5656 Fax (281)530-5887
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Preparation Information Benchsheet

Prep Run#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400685-001	18CPTMW06_06224	.01	6850/ClO4 DOD			Water	10mL	
2	E2400685-002	MW22_061224	.01	6850/ClO4 DOD			Water	10mL	
3	E2400685-003	MW22_06224_a	.01	6850/ClO4 DOD			Water	10mL	
4	E2400685-004	MW6_06224	.01	6850/ClO4 DOD			Water	10mL	
5	E2400685-005	109_06224	.01	6850/ClO4 DOD			Water	10mL	
6	E2400685-006	MW21_06224	.01	6850/ClO4 DOD			Water	10mL	
7	E2400685-007	18CPTMW22SW_06224	.01	6850/ClO4 DOD			Water	10mL	
8	E2400685-008	MW20_06224	.01	6850/ClO4 DOD			Water	10mL	
9	E2400691-001	MW12_061324	.01	6850/ClO4 DOD			Water	10mL	
10	E2400691-002	1824DPTMW06_061324	.01	6850/ClO4 DOD			Water	10mL	
11	E2400691-003	AWD4_061324	.01	6850/ClO4 DOD			Water	10mL	
12	E2400691-004	18CPTMW15_061324	.01	6850/ClO4 DOD			Water	10mL	
13	E2400691-005	18WW09_061324	.01	6850/ClO4 DOD			Water	10mL	
14	E2400691-006	18WW08_061324	.01	6850/ClO4 DOD			Water	10mL	
15	E2400691-007	18WW22_061324	.01	6850/ClO4 DOD			Water	10mL	
16	E2400691-008	CO4_061324	.01	6850/ClO4 DOD			Water	10mL	
17	E2400702-001	2406120956A ST-3-735	.04	6850/ClO4			Water	10mL	
18	E2400702-002	2406121437A ST-3-586	.01	6850/ClO4			Water	10mL	
19	E2400706-001	LH18/24-SP650_061824_BIX	.01	6850/ClO4 DOD			Water	10mL	
20	E2400706-002	LH18/24-SP650_061824_AIX	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2400335-01	MB		6850/ClO4			Liquid	10mL	
22	EQ2400335-02	LCS		6850/ClO4			Liquid	10mL	
23	EQ2400335-03	DLCS		6850/ClO4			Liquid	10mL	
24	EQ2400335-04	ICS		6850/ClO4			Liquid	10mL	
25	EQ2400335-05	MW12_061324 MS	.01	6850/ClO4 DOD			Liquid	10mL	
26	EQ2400335-06	MW12_061324 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400335-02 10.00µL EQ2400335-02 10.00µL EQ2400335-03 10.00µL EQ2400335-03 10.00µL EQ2400335-04 10.00µL EQ2400335-04 10.00µL
EQ2400335-05 10.00µL EQ2400335-06 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

Preparation Information Benchsheet

Prep Run#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

E2400685-001	100.00µL	E2400685-002	100.00µL	E2400685-003	100.00µL	E2400685-004	100.00µL	E2400685-005	100.00µL	E2400685-006	100.00µL
E2400685-007	100.00µL	E2400685-008	100.00µL	E2400691-001	100.00µL	E2400691-002	100.00µL	E2400691-003	100.00µL	E2400691-004	100.00µL
E2400691-005	100.00µL	E2400691-006	100.00µL	E2400691-007	100.00µL	E2400691-008	100.00µL	E2400702-001	100.00µL	E2400702-002	100.00µL
E2400706-001	100.00µL	E2400706-002	100.00µL	EQ2400335-01	100.00µL	EQ2400335-01	100.00µL	EQ2400335-02	100.00µL	EQ2400335-02	100.00µL
EQ2400335-03	100.00µL	EQ2400335-03	100.00µL	EQ2400335-04	100.00µL	EQ2400335-04	100.00µL	EQ2400335-05	100.00µL	EQ2400335-06	100.00µL

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/21/24 08:25
Finished: 6/21/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0715
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	MW12_061324	**Units:**	µg/L
Lab Code:	E2400691-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:13	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0800
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	1824DPTMW06_061324	**Units:**	µg/L
Lab Code:	E2400691-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**18.8**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:19	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0845
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	AWD4_061324	**Units:**	µg/L
Lab Code:	E2400691-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**579**		10.0	5.00	2.50	100	6/21/24	6/24/24 11:04	440426	845372	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0930
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	18CPTMW15_061324	**Units:**	µg/L
Lab Code:	E2400691-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**98.3**		1.00	0.500	0.250	10	6/21/24	6/24/24 11:10	440426	845372	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 1020
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	18WW09_061324	**Units:**	µg/L
Lab Code:	E2400691-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:35	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 1100
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	18WW08_061324	**Units:**	µg/L
Lab Code:	E2400691-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**9.52**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:41	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 1145
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	18WW22_061324	**Units:**	µg/L
Lab Code:	E2400691-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.179**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 15:46	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 1230
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	CO4_061324	**Units:**	µg/L
Lab Code:	E2400691-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 16:03	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400335-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 10:17	440426	845357	

Accuracy & Precision

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Analyzed:**	06/21/24
Sample Matrix:	Water	**Date Extracted:**	06/21/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	845357

	Lab Control Sample EQ2400335-02			Duplicate Lab Control Sample EQ2400335-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0934 J	0.100	93	0.0974 J	0.100	97	84-119	4	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0934**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:36	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0974**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:42	440426	845357	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	06/13/24
Sample Matrix:	Water	**Date Received:**	06/14/24
		Date Analyzed:	06/21/24
		Date Extracted:	06/21/24

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	MW12_061324	**Units:**	ug/L
Lab Code:	E2400691-001	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike EQ2400335-05			Duplicate Matrix Spike EQ2400335-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	ND U	0.116	0.100	116	0.114	0.100	114	84-119	2	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0715
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	MW12_061324	**Units:**	µg/L
Lab Code:	EQ2400335-05	**Basis:**	NA
Run Type:	Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.116**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 13:24	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400691
Project:	HS24060899	**Date Collected:**	6/13/24 0715
Sample Matrix:	Water	**Date Received:**	6/14/24
Sample Name:	MW12_061324	**Units:**	µg/L
Lab Code:	EQ2400335-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.114**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 13:47	440426	845357	

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 | Fax: 717-944-1430 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **ALS Environmental-Houston**

Project HS24060899
Workorder 3366031
Report ID 333106 on 6/28/2024

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 26, 2024.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Dayna Fisher - ALS Environmental-Houston
Jumoke Lawal - ALS Environmental-Houston
Luis Aguilar - ALS Houston

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

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Project HS24060899
Workorder 3366031

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3366031001	MW12-061324	Ground Water	06/13/2024 07:15	06/26/2024 09:36	CBC	Collected By Client
3366031002	1824DPTMW06_061324	Ground Water	06/13/2024 08:00	06/26/2024 09:36	CBC	Collected By Client
3366031003	AWD4_061324	Ground Water	06/13/2024 08:45	06/26/2024 09:36	CBC	Collected By Client
3366031004	18CPTMW15_061324	Ground Water	06/13/2024 09:30	06/26/2024 09:36	CBC	Collected By Client
3366031005	18WW08_061324	Ground Water	06/13/2024 11:00	06/26/2024 09:36	CBC	Collected By Client
3366031006	18WW22_061324	Ground Water	06/13/2024 11:45	06/26/2024 09:36	CBC	Collected By Client
3366031007	CO4_061324	Ground Water	06/13/2024 12:30	06/26/2024 09:36	CBC	Collected By Client
3366031008	Trip Blank	Ground Water	06/13/2024 00:00	06/26/2024 09:36	CBC	Collected By Client

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Project HS24060899
Workorder 3366031

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

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Project HS24060899
Workorder 3366031

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte cis-1,2-Dichloroethene. The % Recovery was reported as 126 and the control limits were 78 to 123.

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Project HS24060899
Workorder 3366031

Detected Results Summary

Client Sample ID	MW12-061324	Collected	06/13/2024 07:15
Lab Sample ID	3366031001	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethane	2.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,1-Dichloroethene	6.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	56.9	ug/L	1.0	0.75	0.33	SW846 8260D	#
trans-1,2-Dichloroethene	0.79J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	421	ug/L	10.0	7.5	3.3	SW846 8260D	#
Vinyl Chloride	0.97J	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project HS24060899
Workorder 3366031

Detected Results Summary

Client Sample ID	1824DPTMW06_061324	Collected	06/13/2024 08:00
Lab Sample ID	3366031002	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,1-Dichloroethane	1.4	ug/L	1.0	0.75	0.33	SW846 8260D	#
1,2-Dichloroethane	1.8	ug/L	1.0	0.75	0.33	SW846 8260D	#
Chloromethane	0.42J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	8.2	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	12.3	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Project HS24060899
Workorder 3366031

Detected Results Summary

Client Sample ID	AWD4_061324	Collected	06/13/2024 08:45
Lab Sample ID	3366031003	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	0.88J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	2.9	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Workorder 3366031

Detected Results Summary

Client Sample ID	18CPTMW15_061324	Collected	06/13/2024 09:30
Lab Sample ID	3366031004	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
1,2-Dichloroethane	0.44J	ug/L	1.0	0.75	0.33	SW846 8260D	#
cis-1,2-Dichloroethene	2.1	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	18.9	ug/L	1.0	0.75	0.33	SW846 8260D	#
Vinyl Chloride	0.41J	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Workorder 3366031

Detected Results Summary

Client Sample ID	18WW08_061324	Collected	06/13/2024 11:00
Lab Sample ID	3366031005	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	0.39J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	0.94J	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Workorder 3366031

Detected Results Summary

Client Sample ID	Trip Blank	Collected	06/13/2024 00:00
Lab Sample ID	3366031008	Lab Receipt	06/26/2024 09:36

Compound	Result	Units	LOQ	LOD	DL	Method	Flag
VOLATILE ORGANICS							
cis-1,2-Dichloroethene	0.58J	ug/L	1.0	0.75	0.33	SW846 8260D	#
Trichloroethene	1.3	ug/L	1.0	0.75	0.33	SW846 8260D	#

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Workorder 3366031

Results

Client Sample ID	MW12-061324	Collected	06/13/2024 07:15
Lab Sample ID	3366031001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1-Dichloroethane	2.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1-Dichloroethene	6.4		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 01:16	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 01:16	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
cis-1,2-Dichloroethene	56.9	1	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 01:16	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 01:16	PDK	A

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Workorder 3366031

Results

Client Sample ID	MW12-061324	Collected	06/13/2024 07:15
Lab Sample ID	3366031001	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
trans-1,2-Dichloroethene	0.79J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Trichloroethene	421		ug/L	10.0	7.5	3.3	SW846 8260D	10	06/27/2024 18:29	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A
Vinyl Chloride	0.97J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 01:16	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	81 – 118	06/27/2024 18:29	
1,2-Dichloroethane-d4	17060-07-0	106%	81 – 118	06/27/2024 01:16	
4-Bromofluorobenzene	460-00-4	101%	85 – 114	06/27/2024 18:29	
4-Bromofluorobenzene	460-00-4	97%	85 – 114	06/27/2024 01:16	
Dibromofluoromethane	1868-53-7	106%	80 – 119	06/27/2024 18:29	
Dibromofluoromethane	1868-53-7	97.4%	80 – 119	06/27/2024 01:16	
Toluene-d8	2037-26-5	107%	89 – 112	06/27/2024 18:29	
Toluene-d8	2037-26-5	102%	89 – 112	06/27/2024 01:16	

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Workorder 3366031

Results

Client Sample ID	1824DPTMW06_061324	Collected	06/13/2024 08:00
Lab Sample ID	3366031002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1-Dichloroethane	1.4		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2-Dichloroethane	1.8		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 13:50	ILY	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 13:50	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Chloromethane	0.42J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
cis-1,2-Dichloroethene	8.2		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 13:50	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 13:50	ILY	A

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Workorder 3366031

Results

Client Sample ID	1824DPTMW06_061324	Collected	06/13/2024 08:00
Lab Sample ID	3366031002	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Trichloroethene	12.3		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 13:50	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.7%	81 – 118	06/27/2024 13:50	
4-Bromofluorobenzene	460-00-4	93.2%	85 – 114	06/27/2024 13:50	
Dibromofluoromethane	1868-53-7	96.9%	80 – 119	06/27/2024 13:50	
Toluene-d8	2037-26-5	96.5%	89 – 112	06/27/2024 13:50	

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Project HS24060899
Workorder 3366031

Results

Client Sample ID	AWD4_061324	Collected	06/13/2024 08:45
Lab Sample ID	3366031003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 14:10	ILY	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 14:10	ILY	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
cis-1,2-Dichloroethene	0.88J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 14:10	ILY	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 14:10	ILY	A

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Project HS24060899
Workorder 3366031

Results

Client Sample ID	AWD4_061324	Collected	06/13/2024 08:45
Lab Sample ID	3366031003	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Trichloroethene	2.9		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 14:10	ILY	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 14:10	
4-Bromofluorobenzene	460-00-4	96.7%	85 – 114	06/27/2024 14:10	
Dibromofluoromethane	1868-53-7	98.1%	80 – 119	06/27/2024 14:10	
Toluene-d8	2037-26-5	101%	89 – 112	06/27/2024 14:10	

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Project HS24060899
Workorder 3366031

Results

Client Sample ID	18CPTMW15_061324	Collected	06/13/2024 09:30
Lab Sample ID	3366031004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2-Dichloroethane	0.44J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:17	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 02:17	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
cis-1,2-Dichloroethene	2.1		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 02:17	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 02:17	PDK	A

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Project HS24060899
Workorder 3366031

Results

Client Sample ID	18CPTMW15_061324	Collected	06/13/2024 09:30
Lab Sample ID	3366031004	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Trichloroethene	18.9		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A
Vinyl Chloride	0.41J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:17	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	111%	81 – 118	06/27/2024 02:17	
4-Bromofluorobenzene	460-00-4	99.3%	85 – 114	06/27/2024 02:17	
Dibromofluoromethane	1868-53-7	101%	80 – 119	06/27/2024 02:17	
Toluene-d8	2037-26-5	104%	89 – 112	06/27/2024 02:17	

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Project HS24060899
Workorder 3366031

Results

Client Sample ID	18WW08_061324	Collected	06/13/2024 11:00
Lab Sample ID	3366031005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:37	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 02:37	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
cis-1,2-Dichloroethene	0.39J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 02:37	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 02:37	PDK	A

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Workorder 3366031

Results

Client Sample ID	18WW08_061324	Collected	06/13/2024 11:00
Lab Sample ID	3366031005	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Trichloroethene	0.94J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:37	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	81 – 118	06/27/2024 02:37	
4-Bromofluorobenzene	460-00-4	97%	85 – 114	06/27/2024 02:37	
Dibromofluoromethane	1868-53-7	92.4%	80 – 119	06/27/2024 02:37	
Toluene-d8	2037-26-5	99.1%	89 – 112	06/27/2024 02:37	

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Workorder 3366031

Results

Client Sample ID	18WW22_061324	Collected	06/13/2024 11:45
Lab Sample ID	3366031006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 02:58	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 02:58	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 02:58	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 02:58	PDK	A

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Project HS24060899
Workorder 3366031

Results

Client Sample ID	18WW22_061324	Collected	06/13/2024 11:45
Lab Sample ID	3366031006	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 02:58	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	118%	81 – 118	06/27/2024 02:58	
4-Bromofluorobenzene	460-00-4	108%	85 – 114	06/27/2024 02:58	
Dibromofluoromethane	1868-53-7	103%	80 – 119	06/27/2024 02:58	
Toluene-d8	2037-26-5	110%	89 – 112	06/27/2024 02:58	

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Project HS24060899
Workorder 3366031

Results

Client Sample ID	CO4_061324	Collected	06/13/2024 12:30
Lab Sample ID	3366031007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 03:18	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 03:18	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 03:18	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 03:18	PDK	A

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Workorder 3366031

Results

Client Sample ID	CO4_061324	Collected	06/13/2024 12:30
Lab Sample ID	3366031007	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 03:18	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	104%	81 – 118	06/27/2024 03:18	
4-Bromofluorobenzene	460-00-4	94.5%	85 – 114	06/27/2024 03:18	
Dibromofluoromethane	1868-53-7	91.6%	80 – 119	06/27/2024 03:18	
Toluene-d8	2037-26-5	99.9%	89 – 112	06/27/2024 03:18	

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Workorder 3366031

Results

Client Sample ID	Trip Blank	Collected	06/13/2024 00:00
Lab Sample ID	3366031008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260D	1	06/27/2024 00:55	PDK	A
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260D	1	06/27/2024 00:55	PDK	A
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Carbon Disulfide	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
cis-1,2-Dichloroethene	0.58J	J	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Dibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Hexachlorobutadiene	3.8U	U	ug/L	5.0	3.8	0.43	SW846 8260D	1	06/27/2024 00:55	PDK	A
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260D	1	06/27/2024 00:55	PDK	A

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Workorder 3366031

Results

Client Sample ID	Trip Blank	Collected	06/13/2024 00:00
Lab Sample ID	3366031008	Lab Receipt	06/26/2024 09:36

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	LOQ	LOD	DL	Method	Dilution	Analysis Date/Time	By	Cntr
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Trichloroethene	1.3		ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260D	1	06/27/2024 00:55	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	107%	81 – 118	06/27/2024 00:55	
4-Bromofluorobenzene	460-00-4	99.6%	85 – 114	06/27/2024 00:55	
Dibromofluoromethane	1868-53-7	95.4%	80 – 119	06/27/2024 00:55	
Toluene-d8	2037-26-5	106%	89 – 112	06/27/2024 00:55	

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Workorder 3366031

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3366031001	MW12-061324	SW846 8260D	N/A	
		SW846 8260D	N/A	
3366031002	1824DPTMW06_061324	SW846 8260D	N/A	
3366031003	AWD4_061324	SW846 8260D	N/A	
3366031004	18CPTMW15_061324	SW846 8260D	N/A	
3366031005	18WW08_061324	SW846 8260D	N/A	
3366031006	18WW22_061324	SW846 8260D	N/A	
3366031007	CO4_061324	SW846 8260D	N/A	
3366031008	Trip Blank	SW846 8260D	N/A	

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1234508	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366031007	3366031005	3366031008	3366031004
3366031006	3366031001		

Method Blank 3844895 (MB) Created on 06/26/2024 20:11 For QC Batch 1234508

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U

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Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.30	30	101	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	29.10	30	97.1	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	27.90	30	92.9	80 - 119	
Toluene-d8	2037-26-5	BLK	30.30	30	101	89 - 112	

Lab Control Standard 3844896 (LCS) Created on 06/26/2024 20:11 For QC Batch 1234508

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	20.20		20	101	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.90		20	109	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23.70		20	118	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	22.20		20	111	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	21		20	105	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.20		20	106	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	20.90		20	104	79 - 125		

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Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,3-Trichlorobenzene	87-61-6	LCS	19.90		20	99.3	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	22.80		20	114	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	24.90		20	124	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	21.50		20	107	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.20		20	90.8	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	19.60		20	97.9	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	23.30		20	116	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	20.20		20	101	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	21		20	105	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	22.90		20	115	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	23.70		20	119	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	22.10		20	111	80 - 119		
1,4-Dichlorobenzene	106-46-7	LCS	23.20		20	116	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	21.50		20	108	60 - 139		
2-Butanone	78-93-3	LCS	105		100	105	56 - 143		
2-Hexanone	591-78-6	LCS	103		100	103	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	67 - 130		
Acetone	67-64-1	LCS	113		100	113	39 - 160		
Benzene	71-43-2	LCS	20		20	100	79 - 120		
Bromobenzene	108-86-1	LCS	22.40		20	112	80 - 120		
Bromochloromethane	74-97-5	LCS	21.70		20	109	78 - 123		
Bromodichloromethane	75-27-4	LCS	19.40		20	97.1	79 - 125		
Bromoform	75-25-2	LCS	18.70		20	93.4	66 - 130		
Bromomethane	74-83-9	LCS	21.30		20	106	53 - 141		
Carbon Disulfide	75-15-0	LCS	20.80		20	104	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	17.80		20	88.9	72 - 136		
Chlorobenzene	108-90-7	LCS	21.60		20	108	82 - 118		
Chlorodibromomethane	124-48-1	LCS	18.70		20	93.4	74 - 126		
Chloroethane	75-00-3	LCS	20.10		20	101	60 - 138		
Chloroform	67-66-3	LCS	21.10		20	106	79 - 124		
Chloromethane	74-87-3	LCS	20.60		20	103	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	21.40		20	107	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	20		20	99.9	75 - 124		
Dibromomethane	74-95-3	LCS	21.10		20	106	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	20.30		20	102	32 - 152		
Ethylbenzene	100-41-4	LCS	20.40		20	102	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	22.80		20	114	66 - 134		
Isopropylbenzene	98-82-8	LCS	24.30		20	122	72 - 131		
Methylene Chloride	75-09-2	LCS	20.50		20	103	74 - 124		
mp-Xylene	108383/106423	LCS	40.30		40	101	80 - 121		
Naphthalene	91-20-3	LCS	19.50		20	97.3	61 - 128		
n-Butylbenzene	104-51-8	LCS	23		20	115	75 - 128		
n-Propylbenzene	103-65-1	LCS	22.90		20	114	76 - 126		
o-Chlorotoluene	95-49-8	LCS	23.50		20	118	79 - 122		
o-Xylene	95-47-6	LCS	20.10		20	101	78 - 122		
p-Chlorotoluene	106-43-4	LCS	24.20		20	121	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	22.70		20	114	77 - 127		

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Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
sec-Butylbenzene	135-98-8	LCS	24.20		20	121	77 - 126		
Styrene	100-42-5	LCS	21.20		20	106	78 - 123		
tert-Butylbenzene	98-06-6	LCS	24.10		20	120	78 - 124		
Tetrachloroethene	127-18-4	LCS	20.50		20	103	74 - 129		
Toluene	108-88-3	LCS	20.60		20	103	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	20.90		20	105	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	20		20	100	73 - 127		
Trichloroethene	79-01-6	LCS	19.20		20	95.9	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	20		20	100	65 - 141		
Vinyl Chloride	75-01-4	LCS	20.20		20	101	58 - 137		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.90	30	99.7	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	31.20	30	104	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.30	30	97.7	80 - 119	
Toluene-d8	2037-26-5	LCS	30.20	30	101	89 - 112	

Matrix Spike 3844909 (MS) 3366031001 For QC Batch 1234508

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3844910 (MSD) 3366031001 For QC Batch 1234508

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	20.10	0	20	100	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	19.10	0	20	95.6	78 - 124	RPD 4.80 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	23.70	0	20	118	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	22.30	0	20	111	74 - 131	RPD 6.14 (Max-30)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.70	0	20	118	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	22.90	0	20	115	71 - 121	RPD 3.18 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	22.10	0	20	111	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21.30	0	20	106	80 - 119	RPD 3.95 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	26.10	2.80	20	116	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	23.90	2.80	20	105	77 - 125	RPD 8.65 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	29.90	6.40	20	117	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	28.10	6.40	20	109	71 - 131	RPD 6.02 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.20	0	20	116	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.40	0	20	107	79 - 125	RPD 7.72 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	18.20	0	20	91	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	17.80	0	20	89.2	69 - 129	RPD 1.99 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.40	0	20	112	73 - 122		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2,3-Trichloropropane	96-18-4	MSD	22	0	20	110	73 - 122	RPD 1.98 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	22.30	0	20	112	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.10	0	20	111	69 - 130	RPD 0.92 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	21.20	0	20	106	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	20.50	0	20	103	76 - 124	RPD 3.16 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	18	0	20	90.1	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	18	0	20	90.1	62 - 128	RPD 0.04 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	19.50	0	20	97.6	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	19.30	0	20	96.7	77 - 121	RPD 0.88 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	22.70	0	20	113	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	21.90	0	20	109	80 - 119	RPD 3.44 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	23.80	0	20	119	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	22	0	20	110	73 - 128	RPD 7.64 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	22.40	0	20	112	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.10	0	20	105	78 - 122	RPD 5.99 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	23.20	0	20	116	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	22.40	0	20	112	75 - 124	RPD 3.71 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.50	0	20	113	80 - 119		
1,3-Dichlorobenzene	541-73-1	MSD	21.90	0	20	109	80 - 119	RPD 2.89 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	22.60	0	20	113	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	21.70	0	20	108	80 - 119	RPD 4.08 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	22.30	0	20	112	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	21.70	0	20	108	79 - 118	RPD 3.12 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	22.90	0	20	114	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	20.30	0	20	101	60 - 139	RPD 11.90 (Max-30)	
2-Butanone	78-93-3	MS	101	0	100	101	56 - 143		
2-Butanone	78-93-3	MSD	95	0	100	95	56 - 143	RPD 6.52 (Max-30)	
2-Hexanone	591-78-6	MS	101	0	100	101	57 - 139		
2-Hexanone	591-78-6	MSD	97.40	0	100	97.4	57 - 139	RPD 3.82 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	104	0	100	104	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	101	0	100	101	67 - 130	RPD 3.57 (Max-30)	
Acetone	67-64-1	MS	97.60	0	100	97.6	39 - 160		
Acetone	67-64-1	MSD	94.10	0	100	94.1	39 - 160	RPD 3.72 (Max-30)	
Benzene	71-43-2	MS	22.30	0.24	20	110	79 - 120		
Benzene	71-43-2	MSD	20.50	0.24	20	101	79 - 120	RPD 8.48 (Max-30)	
Bromobenzene	108-86-1	MS	22.20	0	20	111	80 - 120		
Bromobenzene	108-86-1	MSD	21.20	0	20	106	80 - 120	RPD 4.61 (Max-30)	
Bromochloromethane	74-97-5	MS	22.70	0	20	113	78 - 123		
Bromochloromethane	74-97-5	MSD	21.10	0	20	106	78 - 123	RPD 7.20 (Max-30)	
Bromodichloromethane	75-27-4	MS	20	0	20	100	79 - 125		
Bromodichloromethane	75-27-4	MSD	18.60	0	20	93	79 - 125	RPD 7.20 (Max-30)	
Bromoform	75-25-2	MS	17.60	0	20	87.9	66 - 130		
Bromoform	75-25-2	MSD	17.60	0	20	88	66 - 130	RPD 0.04 (Max-30)	
Bromomethane	74-83-9	MS	24.30	0	20	122	53 - 141		
Bromomethane	74-83-9	MSD	22.50	0	20	112	53 - 141	RPD 7.90 (Max-30)	
Carbon Disulfide	75-15-0	MS	22.30	0	20	111	64 - 133		
Carbon Disulfide	75-15-0	MSD	20.50	0	20	103	64 - 133	RPD 8.27 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	20.40	0	20	102	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	18.60	0	20	92.8	72 - 136	RPD 9.62 (Max-30)	

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Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Chlorobenzene	108-90-7	MS	21.80	0	20	109	82 - 118		
Chlorobenzene	108-90-7	MSD	21.10	0	20	106	82 - 118	RPD 3.13 (Max-30)	
Chlorodibromomethane	124-48-1	MS	18.50	0	20	92.6	74 - 126		
Chlorodibromomethane	124-48-1	MSD	17.90	0	20	89.4	74 - 126	RPD 3.47 (Max-30)	
Chloroethane	75-00-3	MS	21.80	0	20	109	60 - 138		
Chloroethane	75-00-3	MSD	19.70	0	20	98.5	60 - 138	RPD 10.10 (Max-30)	
Chloroform	67-66-3	MS	22.60	0	20	113	79 - 124		
Chloroform	67-66-3	MSD	20.40	0	20	102	79 - 124	RPD 10.20 (Max-30)	
Chloromethane	74-87-3	MS	22.60	0	20	113	50 - 139		
Chloromethane	74-87-3	MSD	20.70	0	20	103	50 - 139	RPD 8.70 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	82.10	56.90	20	126*	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	76.20	56.90	20	96.3	78 - 123	RPD 7.51 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.30	0	20	96.6	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	18.20	0	20	91.1	75 - 124	RPD 5.85 (Max-30)	
Dibromomethane	74-95-3	MS	21.20	0	20	106	79 - 123		
Dibromomethane	74-95-3	MSD	20.50	0	20	102	79 - 123	RPD 3.61 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	21.70	0	20	109	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	19.50	0	20	97.6	32 - 152	RPD 10.80 (Max-30)	
Ethylbenzene	100-41-4	MS	20.80	0	20	104	79 - 121		
Ethylbenzene	100-41-4	MSD	19.90	0	20	99.3	79 - 121	RPD 4.44 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	19.80	0	20	99	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.20	0	20	101	66 - 134	RPD 1.78 (Max-30)	
Isopropylbenzene	98-82-8	MS	24.40	0	20	122	72 - 131		
Isopropylbenzene	98-82-8	MSD	23.50	0	20	118	72 - 131	RPD 3.44 (Max-30)	
Methylene Chloride	75-09-2	MS	21.70	0	20	109	74 - 124		
Methylene Chloride	75-09-2	MSD	20.30	0	20	101	74 - 124	RPD 6.84 (Max-30)	
mp-Xylene	108383/106423	MS	41.10	0	40	103	80 - 121		
mp-Xylene	108383/106423	MSD	39.30	0	40	98.2	80 - 121	RPD 4.43 (Max-30)	
Naphthalene	91-20-3	MS	18.50	0	20	92.5	61 - 128		
Naphthalene	91-20-3	MSD	17.90	0	20	89.6	61 - 128	RPD 3.18 (Max-30)	
n-Butylbenzene	104-51-8	MS	22.70	0	20	113	75 - 128		
n-Butylbenzene	104-51-8	MSD	21.10	0	20	106	75 - 128	RPD 7 (Max-30)	
n-Propylbenzene	103-65-1	MS	23.70	0	20	118	76 - 126		
n-Propylbenzene	103-65-1	MSD	22.40	0	20	112	76 - 126	RPD 5.32 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.40	0	20	117	79 - 122		
o-Chlorotoluene	95-49-8	MSD	22.60	0	20	113	79 - 122	RPD 3.66 (Max-30)	
o-Xylene	95-47-6	MS	20.30	0	20	101	78 - 122		
o-Xylene	95-47-6	MSD	19.60	0	20	97.9	78 - 122	RPD 3.35 (Max-30)	
p-Chlorotoluene	106-43-4	MS	23.50	0	20	117	78 - 122		
p-Chlorotoluene	106-43-4	MSD	22.80	0	20	114	78 - 122	RPD 3.03 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	23.40	0	20	117	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	22.40	0	20	112	77 - 127	RPD 4.58 (Max-30)	
sec-Butylbenzene	135-98-8	MS	24.60	0	20	123	77 - 126		
sec-Butylbenzene	135-98-8	MSD	23.40	0	20	117	77 - 126	RPD 4.97 (Max-30)	
Styrene	100-42-5	MS	21.20	0	20	106	78 - 123		
Styrene	100-42-5	MSD	20	0	20	100	78 - 123	RPD 5.62 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24	0	20	120	78 - 124		
tert-Butylbenzene	98-06-6	MSD	22.90	0	20	115	78 - 124	RPD 4.76 (Max-30)	

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Project HS24060899
Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Tetrachloroethene	127-18-4	MS	20.90	0	20	104	74 - 129		
Tetrachloroethene	127-18-4	MSD	20	0	20	100	74 - 129	RPD 4.23 (Max-30)	
Toluene	108-88-3	MS	20.90	0	20	104	80 - 121		
Toluene	108-88-3	MSD	19.90	0	20	99.3	80 - 121	RPD 5.10 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23.60	0.79	20	114	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	22.40	0.79	20	108	75 - 124	RPD 5.35 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	19.60	0	20	98	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19	0	20	94.9	73 - 127	RPD 3.23 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	21.10	0	20	106	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	19.30	0	20	96.4	65 - 141	RPD 9.03 (Max-30)	
Vinyl Chloride	75-01-4	MS	22.90	0.97	20	110	58 - 137		
Vinyl Chloride	75-01-4	MSD	20.50	0.97	20	97.6	58 - 137	RPD 11.20 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	33.50	30	112	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	30.80	30	103	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	28	30	93.3	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.80	30	96	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30.40	30	101	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	28.30	30	94.4	80 - 119	
Toluene-d8	2037-26-5	MS	29.10	30	97.2	89 - 112	
Toluene-d8	2037-26-5	MSD	29.10	30	97	89 - 112	

QC Batch

QC Batch	1235282	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3366031002 3366031001 3366031003

Matrix Spike 3845270 (MS) 3366027010 (non-Project Sample) For QC Batch 1235282

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3845271 (MSD) 3366027010 (non-Project Sample) For QC Batch 1235282

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	23.80	0	20	119	78 - 124		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	22.40	0	20	112	78 - 124	RPD 6.18 (Max-30)	
1,1,1-Trichloroethane	71-55-6	MS	24.70	0	20	123	74 - 131		
1,1,1-Trichloroethane	71-55-6	MSD	23.20	0	20	116	74 - 131	RPD 6.07 (Max-30)	

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Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,2,2-Tetrachloroethane	79-34-5	MS	23	0	20	115	71 - 121		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	21	0	20	105	71 - 121	RPD 9.25 (Max-30)	
1,1,2-Trichloroethane	79-00-5	MS	22.40	0	20	112	80 - 119		
1,1,2-Trichloroethane	79-00-5	MSD	21.30	0	20	107	80 - 119	RPD 4.95 (Max-30)	
1,1-Dichloroethane	75-34-3	MS	21.30	0	20	107	77 - 125		
1,1-Dichloroethane	75-34-3	MSD	19.90	0	20	99.4	77 - 125	RPD 7.06 (Max-30)	
1,1-Dichloroethene	75-35-4	MS	24.30	0	20	121	71 - 131		
1,1-Dichloroethene	75-35-4	MSD	22.40	0	20	112	71 - 131	RPD 8.30 (Max-30)	
1,1-Dichloropropene	563-58-6	MS	23.70	0	20	119	79 - 125		
1,1-Dichloropropene	563-58-6	MSD	21.60	0	20	108	79 - 125	RPD 9.24 (Max-30)	
1,2,3-Trichlorobenzene	87-61-6	MS	22	0	20	110	69 - 129		
1,2,3-Trichlorobenzene	87-61-6	MSD	19.70	0	20	98.7	69 - 129	RPD 10.70 (Max-30)	
1,2,3-Trichloropropane	96-18-4	MS	22.50	0	20	113	73 - 122		
1,2,3-Trichloropropane	96-18-4	MSD	20.80	0	20	104	73 - 122	RPD 8.10 (Max-30)	
1,2,4-Trichlorobenzene	120-82-1	MS	24.30	0	20	121	69 - 130		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.20	0	20	111	69 - 130	RPD 8.86 (Max-30)	
1,2,4-Trimethylbenzene	95-63-6	MS	24.20	0	20	121	76 - 124		
1,2,4-Trimethylbenzene	95-63-6	MSD	21.30	0	20	106	76 - 124	RPD 13 (Max-30)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	20.20	0	20	101	62 - 128		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	19.10	0	20	95.4	62 - 128	RPD 5.76 (Max-30)	
1,2-Dibromoethane	106-93-4	MS	22.30	0	20	111	77 - 121		
1,2-Dibromoethane	106-93-4	MSD	21.10	0	20	106	77 - 121	RPD 5.32 (Max-30)	
1,2-Dichlorobenzene	95-50-1	MS	23	0	20	115	80 - 119		
1,2-Dichlorobenzene	95-50-1	MSD	20.30	0	20	102	80 - 119	RPD 12.20 (Max-30)	
1,2-Dichloroethane	107-06-2	MS	22.80	0	20	114	73 - 128		
1,2-Dichloroethane	107-06-2	MSD	21.40	0	20	107	73 - 128	RPD 5.99 (Max-30)	
1,2-Dichloropropane	78-87-5	MS	23.40	0	20	117	78 - 122		
1,2-Dichloropropane	78-87-5	MSD	21.60	0	20	108	78 - 122	RPD 8.03 (Max-30)	
1,3,5-Trimethylbenzene	108-67-8	MS	24.30	0	20	121	75 - 124		
1,3,5-Trimethylbenzene	108-67-8	MSD	21.60	0	20	108	75 - 124	RPD 11.80 (Max-30)	
1,3-Dichlorobenzene	541-73-1	MS	22.90	0	20	115	80 - 119		
1,3-Dichlorobenzene	541-73-1	MSD	20.30	0	20	102	80 - 119	RPD 12 (Max-30)	
1,3-Dichloropropane	142-28-9	MS	23.10	0	20	115	80 - 119		
1,3-Dichloropropane	142-28-9	MSD	21.60	0	20	108	80 - 119	RPD 6.58 (Max-30)	
1,4-Dichlorobenzene	106-46-7	MS	22.40	0	20	112	79 - 118		
1,4-Dichlorobenzene	106-46-7	MSD	19.90	0	20	99.4	79 - 118	RPD 11.80 (Max-30)	
2,2-Dichloropropane	594-20-7	MS	22.50	0	20	112	60 - 139		
2,2-Dichloropropane	594-20-7	MSD	20	0	20	99.9	60 - 139	RPD 11.70 (Max-30)	
2-Butanone	78-93-3	MS	104	0	100	104	56 - 143		
2-Butanone	78-93-3	MSD	101	0	100	101	56 - 143	RPD 2.82 (Max-30)	
2-Hexanone	591-78-6	MS	100	0	100	100	57 - 139		
2-Hexanone	591-78-6	MSD	92.40	0	100	92.4	57 - 139	RPD 8 (Max-30)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	102	0	100	102	67 - 130		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	95.80	0	100	95.8	67 - 130	RPD 6.06 (Max-30)	
Acetone	67-64-1	MS	108	0	100	108	39 - 160		
Acetone	67-64-1	MSD	103	0	100	103	39 - 160	RPD 4.90 (Max-30)	
Benzene	71-43-2	MS	23.40	0	20	117	79 - 120		
Benzene	71-43-2	MSD	21.40	0	20	107	79 - 120	RPD 8.71 (Max-30)	
Bromobenzene	108-86-1	MS	22.80	0	20	114	80 - 120		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Bromobenzene	108-86-1	MSD	20.30	0	20	101	80 - 120	RPD 11.80 (Max-30)	
Bromochloromethane	74-97-5	MS	23.10	0	20	116	78 - 123		
Bromochloromethane	74-97-5	MSD	22.80	0	20	114	78 - 123	RPD 1.52 (Max-30)	
Bromodichloromethane	75-27-4	MS	23.50	0	20	117	79 - 125		
Bromodichloromethane	75-27-4	MSD	22.40	0	20	112	79 - 125	RPD 4.51 (Max-30)	
Bromoform	75-25-2	MS	20.20	0	20	101	66 - 130		
Bromoform	75-25-2	MSD	18.90	0	20	94.4	66 - 130	RPD 6.94 (Max-30)	
Bromomethane	74-83-9	MS	22.30	0	20	111	53 - 141		
Bromomethane	74-83-9	MSD	20.70	0	20	104	53 - 141	RPD 7.40 (Max-30)	
Carbon Disulfide	75-15-0	MS	23	0	20	115	64 - 133		
Carbon Disulfide	75-15-0	MSD	20.90	0	20	104	64 - 133	RPD 9.82 (Max-30)	
Carbon Tetrachloride	56-23-5	MS	22.50	0	20	112	72 - 136		
Carbon Tetrachloride	56-23-5	MSD	19.90	0	20	99.5	72 - 136	RPD 12.10 (Max-30)	
Chlorobenzene	108-90-7	MS	23.10	0	20	115	82 - 118		
Chlorobenzene	108-90-7	MSD	21.30	0	20	106	82 - 118	RPD 8.14 (Max-30)	
Chlorodibromomethane	124-48-1	MS	20.40	0	20	102	74 - 126		
Chlorodibromomethane	124-48-1	MSD	19.20	0	20	95.8	74 - 126	RPD 6.38 (Max-30)	
Chloroethane	75-00-3	MS	23.80	0	20	119	60 - 138		
Chloroethane	75-00-3	MSD	21	0	20	105	60 - 138	RPD 12.70 (Max-30)	
Chloroform	67-66-3	MS	22.40	0	20	112	79 - 124		
Chloroform	67-66-3	MSD	20.80	0	20	104	79 - 124	RPD 7.35 (Max-30)	
Chloromethane	74-87-3	MS	21.20	0.33	20	104	50 - 139		
Chloromethane	74-87-3	MSD	19.30	0.33	20	95.1	50 - 139	RPD 8.96 (Max-30)	
cis-1,2-Dichloroethene	156-59-2	MS	23.70	0	20	118	78 - 123		
cis-1,2-Dichloroethene	156-59-2	MSD	22.40	0	20	112	78 - 123	RPD 5.63 (Max-30)	
cis-1,3-Dichloropropene	10061-01-5	MS	20.30	0	20	102	75 - 124		
cis-1,3-Dichloropropene	10061-01-5	MSD	19	0	20	94.9	75 - 124	RPD 6.92 (Max-30)	
Dibromomethane	74-95-3	MS	22.90	0	20	114	79 - 123		
Dibromomethane	74-95-3	MSD	22.10	0	20	110	79 - 123	RPD 3.68 (Max-30)	
Dichlorodifluoromethane	75-71-8	MS	22.40	0	20	112	32 - 152		
Dichlorodifluoromethane	75-71-8	MSD	19.50	0	20	97.4	32 - 152	RPD 13.70 (Max-30)	
Ethylbenzene	100-41-4	MS	23.60	0	20	118	79 - 121		
Ethylbenzene	100-41-4	MSD	21.20	0	20	106	79 - 121	RPD 11.10 (Max-30)	
Hexachlorobutadiene	87-68-3	MS	23	0	20	115	66 - 134		
Hexachlorobutadiene	87-68-3	MSD	20.40	0	20	102	66 - 134	RPD 12 (Max-30)	
Isopropylbenzene	98-82-8	MS	25.10	0	20	125	72 - 131		
Isopropylbenzene	98-82-8	MSD	21.90	0	20	110	72 - 131	RPD 13.40 (Max-30)	
Methylene Chloride	75-09-2	MS	23.10	0	20	116	74 - 124		
Methylene Chloride	75-09-2	MSD	22	0	20	110	74 - 124	RPD 5.10 (Max-30)	
mp-Xylene	108383/106423	MS	47.50	0	40	119	80 - 121		
mp-Xylene	108383/106423	MSD	43.40	0	40	109	80 - 121	RPD 8.91 (Max-30)	
Naphthalene	91-20-3	MS	20.90	0	20	104	61 - 128		
Naphthalene	91-20-3	MSD	19.10	0	20	95.3	61 - 128	RPD 9.09 (Max-30)	
n-Butylbenzene	104-51-8	MS	23.30	0	20	116	75 - 128		
n-Butylbenzene	104-51-8	MSD	20.70	0	20	104	75 - 128	RPD 11.70 (Max-30)	
n-Propylbenzene	103-65-1	MS	22.90	0	20	115	76 - 126		
n-Propylbenzene	103-65-1	MSD	20	0	20	99.8	76 - 126	RPD 13.90 (Max-30)	
o-Chlorotoluene	95-49-8	MS	23.80	0	20	119	79 - 122		
o-Chlorotoluene	95-49-8	MSD	20.90	0	20	105	79 - 122	RPD 12.70 (Max-30)	

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Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
o-Xylene	95-47-6	MS	23.70	0	20	119	78 - 122		
o-Xylene	95-47-6	MSD	21.50	0	20	108	78 - 122	RPD 9.63 (Max-30)	
p-Chlorotoluene	106-43-4	MS	23.10	0	20	116	78 - 122		
p-Chlorotoluene	106-43-4	MSD	20.50	0	20	103	78 - 122	RPD 11.90 (Max-30)	
p-Isopropyltoluene	99-87-6	MS	23.70	0	20	119	77 - 127		
p-Isopropyltoluene	99-87-6	MSD	20.90	0	20	105	77 - 127	RPD 12.50 (Max-30)	
sec-Butylbenzene	135-98-8	MS	24.10	0	20	121	77 - 126		
sec-Butylbenzene	135-98-8	MSD	21.20	0	20	106	77 - 126	RPD 13 (Max-30)	
Styrene	100-42-5	MS	21.80	0	20	109	78 - 123		
Styrene	100-42-5	MSD	19.20	0	20	96.2	78 - 123	RPD 12.50 (Max-30)	
tert-Butylbenzene	98-06-6	MS	24.10	0	20	121	78 - 124		
tert-Butylbenzene	98-06-6	MSD	20.80	0	20	104	78 - 124	RPD 14.70 (Max-30)	
Tetrachloroethene	127-18-4	MS	21.60	0	20	108	74 - 129		
Tetrachloroethene	127-18-4	MSD	19.90	0	20	99.4	74 - 129	RPD 8.06 (Max-30)	
Toluene	108-88-3	MS	23	0	20	115	80 - 121		
Toluene	108-88-3	MSD	20.70	0	20	104	80 - 121	RPD 10.50 (Max-30)	
trans-1,2-Dichloroethene	156-60-5	MS	23.70	0	20	118	75 - 124		
trans-1,2-Dichloroethene	156-60-5	MSD	21.50	0	20	108	75 - 124	RPD 9.58 (Max-30)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.20	0	20	106	73 - 127		
trans-1,3-Dichloropropene	10061-02-6	MSD	19.70	0	20	98.5	73 - 127	RPD 7.23 (Max-30)	
Trichloroethene	79-01-6	MS	23.20	0.54	20	113	79 - 123		
Trichloroethene	79-01-6	MSD	21.20	0.54	20	103	79 - 123	RPD 8.94 (Max-30)	
Trichlorofluoromethane	75-69-4	MS	22.50	0	20	113	65 - 141		
Trichlorofluoromethane	75-69-4	MSD	20.30	0	20	102	65 - 141	RPD 10.30 (Max-30)	
Vinyl Chloride	75-01-4	MS	22.60	0	20	113	58 - 137		
Vinyl Chloride	75-01-4	MSD	20.10	0	20	101	58 - 137	RPD 11.70 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31.70	30	106	81 - 118	
1,2-Dichloroethane-d4	17060-07-0	MSD	31.20	30	104	81 - 118	
4-Bromofluorobenzene	460-00-4	MS	30.90	30	103	85 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.80	30	95.8	85 - 114	
Dibromofluoromethane	1868-53-7	MS	30.60	30	102	80 - 119	
Dibromofluoromethane	1868-53-7	MSD	30.70	30	102	80 - 119	
Toluene-d8	2037-26-5	MS	30.20	30	101	89 - 112	
Toluene-d8	2037-26-5	MSD	30.20	30	101	89 - 112	

Method Blank 3845268 (MB) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	0.75U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	0.75U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	0.75U	ug/L	1.0	U

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Project HS24060899
Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
1,1,2-Trichloroethane	79-00-5	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	0.75U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	0.75U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	0.75U	ug/L	1.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.5U	ug/L	5.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	0.75U	ug/L	1.0	U
1,2,4-Trimethylbenzene	95-63-6	BLK	0.75U	ug/L	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	2.5U	ug/L	5.0	U
1,2-Dibromoethane	106-93-4	BLK	0.75U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	0.75U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	0.75U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	0.75U	ug/L	1.0	U
1,3,5-Trimethylbenzene	108-67-8	BLK	0.75U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	0.75U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	0.75U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	0.75U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	0.75U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	3.8U	ug/L	5.0	U
2-Hexanone	591-78-6	BLK	3.8U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	3.8U	ug/L	5.0	U
Acetone	67-64-1	BLK	3.8U	ug/L	5.0	U
Benzene	71-43-2	BLK	0.75U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	0.75U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	0.75U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	0.75U	ug/L	1.0	U
Bromoform	75-25-2	BLK	0.75U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	0.75U	ug/L	1.0	U
Carbon Disulfide	75-15-0	BLK	0.75U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	0.75U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	0.75U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	0.75U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	0.75U	ug/L	1.0	U
Chloroform	67-66-3	BLK	0.75U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	0.75U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	0.75U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	0.75U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	0.75U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	0.75U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	0.75U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	3.8U	ug/L	5.0	U
Isopropylbenzene	98-82-8	BLK	0.75U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	0.75U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	1.5U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	0.75U	ug/L	1.0	U
n-Butylbenzene	104-51-8	BLK	0.75U	ug/L	1.0	U
n-Propylbenzene	103-65-1	BLK	0.75U	ug/L	1.0	U
o-Chlorotoluene	95-49-8	BLK	0.75U	ug/L	1.0	U

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Project HS24060899
Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	LOQ	Qualifiers
o-Xylene	95-47-6	BLK	0.75U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	0.75U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	0.75U	ug/L	1.0	U
sec-Butylbenzene	135-98-8	BLK	0.75U	ug/L	1.0	U
Styrene	100-42-5	BLK	0.75U	ug/L	1.0	U
tert-Butylbenzene	98-06-6	BLK	0.75U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	0.75U	ug/L	1.0	U
Toluene	108-88-3	BLK	0.75U	ug/L	1.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	0.75U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	0.75U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	0.75U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	0.75U	ug/L	1.0	U
Vinyl Chloride	75-01-4	BLK	0.75U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.30	30	97.6	81 - 118	
4-Bromofluorobenzene	460-00-4	BLK	29.10	30	97	85 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.10	30	96.9	80 - 119	
Toluene-d8	2037-26-5	BLK	29.40	30	98.2	89 - 112	

Lab Control Standard 3845269 (LCS) Created on 06/27/2024 11:07 For QC Batch 1235282

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	23.30		20	116	78 - 124		
1,1,1-Trichloroethane	71-55-6	LCS	21.80		20	109	74 - 131		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.90		20	115	71 - 121		
1,1,2-Trichloroethane	79-00-5	LCS	22.40		20	112	80 - 119		
1,1-Dichloroethane	75-34-3	LCS	19.90		20	99.7	77 - 125		
1,1-Dichloroethene	75-35-4	LCS	21.20		20	106	71 - 131		
1,1-Dichloropropene	563-58-6	LCS	21.30		20	106	79 - 125		
1,2,3-Trichlorobenzene	87-61-6	LCS	23.40		20	117	69 - 129		
1,2,3-Trichloropropane	96-18-4	LCS	21.30		20	107	73 - 122		
1,2,4-Trichlorobenzene	120-82-1	LCS	25.20		20	126	69 - 130		
1,2,4-Trimethylbenzene	95-63-6	LCS	23.50		20	118	76 - 124		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	20.60		20	103	62 - 128		
1,2-Dibromoethane	106-93-4	LCS	22		20	110	77 - 121		
1,2-Dichlorobenzene	95-50-1	LCS	23.10		20	116	80 - 119		
1,2-Dichloroethane	107-06-2	LCS	21		20	105	73 - 128		
1,2-Dichloropropane	78-87-5	LCS	22.10		20	110	78 - 122		
1,3,5-Trimethylbenzene	108-67-8	LCS	23.50		20	118	75 - 124		
1,3-Dichlorobenzene	541-73-1	LCS	22.80		20	114	80 - 119		
1,3-Dichloropropane	142-28-9	LCS	22.60		20	113	80 - 119		

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QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	LCS	22.70		20	113	79 - 118		
2,2-Dichloropropane	594-20-7	LCS	23.20		20	116	60 - 139		
2-Butanone	78-93-3	LCS	110		100	110	56 - 143		
2-Hexanone	591-78-6	LCS	102		100	102	57 - 139		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	67 - 130		
Acetone	67-64-1	LCS	121		100	121	39 - 160		
Benzene	71-43-2	LCS	21.70		20	108	79 - 120		
Bromobenzene	108-86-1	LCS	22.20		20	111	80 - 120		
Bromochloromethane	74-97-5	LCS	22.70		20	114	78 - 123		
Bromodichloromethane	75-27-4	LCS	22.10		20	111	79 - 125		
Bromoform	75-25-2	LCS	19.90		20	99.7	66 - 130		
Bromomethane	74-83-9	LCS	19.80		20	99	53 - 141		
Carbon Disulfide	75-15-0	LCS	21.60		20	108	64 - 133		
Carbon Tetrachloride	56-23-5	LCS	19.10		20	95.4	72 - 136		
Chlorobenzene	108-90-7	LCS	23.10		20	115	82 - 118		
Chlorodibromomethane	124-48-1	LCS	20.30		20	101	74 - 126		
Chloroethane	75-00-3	LCS	20.60		20	103	60 - 138		
Chloroform	67-66-3	LCS	21.10		20	106	79 - 124		
Chloromethane	74-87-3	LCS	19.10		20	95.7	50 - 139		
cis-1,2-Dichloroethene	156-59-2	LCS	22.20		20	111	78 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.50		20	103	75 - 124		
Dibromomethane	74-95-3	LCS	21.60		20	108	79 - 123		
Dichlorodifluoromethane	75-71-8	LCS	18.30		20	91.6	32 - 152		
Ethylbenzene	100-41-4	LCS	22.40		20	112	79 - 121		
Hexachlorobutadiene	87-68-3	LCS	24.20		20	121	66 - 134		
Isopropylbenzene	98-82-8	LCS	23.90		20	120	72 - 131		
Methylene Chloride	75-09-2	LCS	21.70		20	109	74 - 124		
mp-Xylene	108383/106423	LCS	46.30		40	116	80 - 121		
Naphthalene	91-20-3	LCS	21.60		20	108	61 - 128		
n-Butylbenzene	104-51-8	LCS	23.50		20	117	75 - 128		
n-Propylbenzene	103-65-1	LCS	22.60		20	113	76 - 126		
o-Chlorotoluene	95-49-8	LCS	23.10		20	116	79 - 122		
o-Xylene	95-47-6	LCS	23.40		20	117	78 - 122		
p-Chlorotoluene	106-43-4	LCS	23.10		20	116	78 - 122		
p-Isopropyltoluene	99-87-6	LCS	23.20		20	116	77 - 127		
sec-Butylbenzene	135-98-8	LCS	23.30		20	116	77 - 126		
Styrene	100-42-5	LCS	22.20		20	111	78 - 123		
tert-Butylbenzene	98-06-6	LCS	22.50		20	113	78 - 124		
Tetrachloroethene	127-18-4	LCS	21.50		20	107	74 - 129		
Toluene	108-88-3	LCS	22.20		20	111	80 - 121		
trans-1,2-Dichloroethene	156-60-5	LCS	21.70		20	109	75 - 124		
trans-1,3-Dichloropropene	10061-02-6	LCS	21.20		20	106	73 - 127		
Trichloroethene	79-01-6	LCS	20.70		20	103	79 - 123		
Trichlorofluoromethane	75-69-4	LCS	18.90		20	94.4	65 - 141		
Vinyl Chloride	75-01-4	LCS	20.60		20	103	58 - 137		

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Project HS24060899
Workorder 3366031

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	29.40	30	98.2	81 - 118	
4-Bromofluorobenzene	460-00-4	LCS	29.40	30	98.2	85 - 114	
Dibromofluoromethane	1868-53-7	LCS	29	30	96.8	80 - 119	
Toluene-d8	2037-26-5	LCS	30.10	30	100	89 - 112	

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Project HS24060899
Workorder 3366031

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3366031001	MW12-061324	N/A	N/A	N/A		SW846 8260D	1235282
		N/A	N/A	N/A		SW846 8260D	1234508
3366031002	1824DPTMW06_061324	N/A	N/A	N/A		SW846 8260D	1235282
3366031003	AWD4_061324	N/A	N/A	N/A		SW846 8260D	1235282
3366031004	18CPTMW15_061324	N/A	N/A	N/A		SW846 8260D	1234508
3366031005	18WW08_061324	N/A	N/A	N/A		SW846 8260D	1234508
3366031006	18WW22_061324	N/A	N/A	N/A		SW846 8260D	1234508
3366031007	CO4_061324	N/A	N/A	N/A		SW846 8260D	1234508
3366031008	Trip Blank	N/A	N/A	N/A		SW846 8260D	1234508

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3366031
Logged By: CXW
PM: SSL

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 26142

SUBCONTRACT TO:

ALS
301 Fulling Mill Road
Middletown, PA 17057
Phone: +1 717 702 2244

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060899
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID		MATRIX	COLLECT DATE
	ANALYSIS REQUESTED				DUE DATE
1.	**HS24060899-01**	**MW12_061324**	8-G/HCL MS/MSD MTE 6/26/24	**Water**	**13 Jun 2024 07:15**
	Custom selection				28 Jun 2024
2.	**HS24060899-02**	**1824DPTMW06_061324**	2-G/HCL	**Water**	**13 Jun 2024 08:00**
	Custom selection				28 Jun 2024
3.	**HS24060899-03**	**AWD4_061324**	2-G/HCL	**Water**	**13 Jun 2024 08:45**
	Custom selection				28 Jun 2024
4.	**HS24060899-04**	**18CPTMW15_061324**	2-G/HCL	**Water**	**13 Jun 2024 09:30**
	Custom selection				28 Jun 2024
5.	**HS24060899-06**	**18WW08_061324**		**Water**	**13 Jun 2024 11:00**
	Custom selection				28 Jun 2024
6.	**HS24060899-07**	**18WW22_061324**		**Water**	**13 Jun 2024 11:45**
	Custom selection				28 Jun 2024
7.	**HS24060899-08**	**CO4_061324**		**Water**	**13 Jun 2024 12:30**
	Custom selection				28 Jun 2024
8.	**HS24060899-09**	**Trip Blank**		**Water**	**13 Jun 2024 00:00**
	Custom selection				28 Jun 2024

43 of 44
6/28/2024 12:21 PM

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 26142

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Temp By: MJE | WO Temp (°C): 1° | Therm ID: 570

Receipt Info Completed By:	MJE
Cooler Custody Seal Intact	Y N NA
Sample Custody Seal Intact	Y N NA
Received on Ice	Y N NA
Cooler & Samples Intact	Y N
Correct Containers Provided	Y N
Sample Label/COC Agree	Y N
Adequate Sample Volumes	Y N
CRG Samples Filtered	Y N NA
OP Samples Filtered	Y N NA
VOA Trip Blank	Y N NA
NIs 4 Days?	Y N
Rad Screen (uCi)	
Courier/Tracking #:	

738879234761

SDWA Compliance	Y N
PWSID	
WV Containers 0-6°C	Y N NA

*No Sampler, G/HCl MJE 6/26/24

pm notified 1w0222

Relinquished By: _____ Date/Time: _____

Received By: Fedex Date/Time: _____

~~Cooler ID(s):~~ Fedex ~~Temperature(s):~~ 6/26/24 936

6/26/24 936

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6/28/2024 12:21 PM

HS24060899-MSSEMI-SW8270SIM

ALS WO# HS24060899

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060899

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060899

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470172

1824DPTMW06_061324

Matrix	Analysis Date	Conc Units	Dilution
Water	06/29/24 14:40	%REC	10

Lab Sample ID HS24060899-02

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	07.D	0.099	0.08	124		40-140
4-Terphenyl-d14	07.D	0.098	0.08	122		40-140
Nitrobenzene-d5	07.D	0.094	0.08	118		40-140

AWD4_061324

Matrix	Analysis Date	Conc Units	Dilution
Water	06/21/24 18:43	%REC	1

Lab Sample ID HS24060899-03

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	23.D	0.069	0.08	86.4		40-140
4-Terphenyl-d14	23.D	0.07	0.08	87.8		40-140
Nitrobenzene-d5	23.D	0.063	0.08	78.6		40-140

18CPTMW15_061324

Matrix	Analysis Date	Conc Units	Dilution
Water	06/21/24 19:01	%REC	1

Lab Sample ID HS24060899-04

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	24.D	0.082	0.08	102		40-140
4-Terphenyl-d14	24.D	0.086	0.08	107		40-140
Nitrobenzene-d5	24.D	0.076	0.08	94.8		40-140

18WW09_061324

Matrix	Analysis Date	Conc Units	Dilution
Water	06/21/24 19:18	%REC	1

Lab Sample ID HS24060899-05

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	25.D	0.053	0.08	66.2		40-140
4-Terphenyl-d14	25.D	0.057	0.08	70.9		40-140
Nitrobenzene-d5	25.D	0.058	0.08	72.4		40-140

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060899

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470172

18WW08_061324

Matrix	Analysis Date	Conc Units	Dilution
Water	06/21/24 19:36	%REC	1

Lab Sample ID HS24060899-06

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	26.D	0.065	0.08	81.2		40-140
4-Terphenyl-d14	26.D	0.051	0.08	63.8		40-140
Nitrobenzene-d5	26.D	0.06	0.08	75.6		40-140

18WW22_061324

Matrix	Analysis Date	Conc Units	Dilution
Water	06/21/24 19:53	%REC	1

Lab Sample ID HS24060899-07

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	27.D	0.065	0.08	81.2		40-140
4-Terphenyl-d14	27.D	0.058	0.08	72.6		40-140
Nitrobenzene-d5	27.D	0.064	0.08	79.9		40-140

LCS1-213652

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/21/24 15:21	%REC	1

Lab Sample ID LCS1-213652

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	12.D	0.07364	0.08	92.1		40-140
4-Terphenyl-d14	12.D	0.0688	0.08	86.0		40-140
Nitrobenzene-d5	12.D	0.0665	0.08	83.1		40-140

LCSD1-213652

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/21/24 15:39	%REC	1

Lab Sample ID LCSD1-213652

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	13.D	0.07494	0.08	93.7		40-140
4-Terphenyl-d14	13.D	0.07913	0.08	98.9		40-140
Nitrobenzene-d5	13.D	0.06969	0.08	87.1		40-140

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060899

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470172

MBLK-213652

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	MBLK-213652	Aqueous	06/21/24 15:04	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	11.D	0.06401	0.08	80.0		40-140
4-Terphenyl-d14	11.D	0.07103	0.08	88.8		40-140
Nitrobenzene-d5	11.D	0.06382	0.08	79.8		40-140

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Form 3B

Laboratory Control Sample Recovery

EPA 3510

Workorder

HS24060899

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060899

EPA 3510

SAMPLENUM LCS1-213652

SV-6_470172				LCS1-213652		LCSD1-213652		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	06/21/24	Run Date	06/21/24	
Prep Date	06/17/24	Analysis Batch	213652	Run Time	15:21	Run Time	15:39	
Prep Method	SW3510	Prep Batch	213652	Prep Amt	1000 mL	Prep Amt	1000 mL	

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane	40-140	0.08	0.07522	94		0.0887	111		20	16.5	

right solutions.
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Form 4

Method Blank Summary

EPA 3510

Workorder

HS24060899

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060899

EPA 3510

METHOD BLANK	Prep Date	Prep Batch	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-213652	06/17/24	213652	Aqueous	06/21/24 15:04	213652	SV6

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS1-213652	LCS1-213652	LCS	06/21/24 15:21	213652	SV6	12.D
LCSD1-213652	LCSD1-213652	LCSD	06/21/24 15:39	213652	SV6	13.D
AWD4_061324	HS24060899-03	SAMP	06/21/24 18:43	213652	SV6	23.D
18CPTMW15_061324	HS24060899-04	SAMP	06/21/24 19:01	213652	SV6	24.D
18WW09_061324	HS24060899-05	SAMP	06/21/24 19:18	213652	SV6	25.D
18WW08_061324	HS24060899-06	SAMP	06/21/24 19:36	213652	SV6	26.D
18WW22_061324	HS24060899-07	SAMP	06/21/24 19:53	213652	SV6	27.D
1824DPTMW06_061324	HS24060899-02	SAMP	06/29/24 14:40	213652	SV6	07.D

right solutions.
right partner.

Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060899

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA80227

Lab File ID: 01 BFB Injection Date: 04/18/24

Instrument ID: SV6 BFB Injection Time: 1039

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.6
68	Less than 2.0% of mass 69	0.5 (1.8)1
69	Mass 69 relative abundance	28.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.4
365	1.0 - 100.0% of mass 198	4.0
441	Present, but less than mass 443	20.5
442	50.0 - 150.0% of mass 198	139.9
443	15.0 - 24.0% of mass 442	27.6 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SLSTD-2.5	SLSTD-2.5	02	04/18/24	1051
02	14DX-0.08	14DX-0.08	03A	04/18/24	1224
03		14DX-0.01	04	04/18/24	1249
04		14DX-0.03	05	04/18/24	1307
05		14DX-0.05	06	04/18/24	1325
06		14DX-0.10	07	04/18/24	1342
07		14DX-0.15	08	04/18/24	1400
08		14DX-0.20	09	04/18/24	1418
09		14DX-0.50	10	04/18/24	1435
10	14DX ICV-0.08	14DX ICV-0.08	11	04/18/24	1453
11					
12					
13					
14					
15					
16					
17					
18					

FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID: 01 BFB Injection Date: 06/21/24

Instrument ID: SV6 BFB Injection Time: 1048

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	27.3
68	Less than 2.0% of mass 69	0.5 (1.5)1
69	Mass 69 relative abundance	31.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	10.0 - 80.0% of mass 198	40.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.1
365	1.0 - 100.0% of mass 198	3.1
441	Present, but less than mass 443	14.2
442	50.0 - 150.0% of mass 198	100.0
443	15.0 - 24.0% of mass 442	20.9 (20.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	14DX-0.08	14DX-0.08	04	06/21/24	1236
02	MBLK-213652	MBLK-213652	11	06/21/24	1504
03	LCS1-213652	LCS1-213652	12	06/21/24	1521
04	LCSD1-213652	LCSD1-213652	13	06/21/24	1539
05	HS24060899-3	HS24060899-03	23	06/21/24	1843
06	HS24060899-4	HS24060899-04	24	06/21/24	1901
07	HS24060899-5	HS24060899-05	25	06/21/24	1918
08	HS24060899-6	HS24060899-06	26	06/21/24	1936
09	HS24060899-7	HS24060899-07	27	06/21/24	1953
10	14DX-0.08	14DX-0.08	28	06/21/24	2010
11					
12					
13					
14					
15					
16					
17					
18					

FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID: 03 BFB Injection Date: 06/29/24

Instrument ID: SV6 BFB Injection Time: 1231

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.9
68	Less than 2.0% of mass 69	0.6 (1.7)1
69	Mass 69 relative abundance	35.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	10.0 - 80.0% of mass 198	43.0
197	Less than 2.0% of mass 198	1.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.8
275	10.0 - 60.0% of mass 198	25.4
365	1.0 - 100.0% of mass 198	3.0
441	Present, but less than mass 443	12.6
442	50.0 - 150.0% of mass 198	95.0
443	15.0 - 24.0% of mass 442	18.2 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	14DX-0.08	14DX-0.08	05A	06/29/24	1358
02	HS24060899-2	HS24060899-02	07	06/29/24	1440
03	14DX-0.08	14DX-0.08	23	06/29/24	1919
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

page 1 of 1

FORM V SV

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-2022 10:25
End Cal Date : 18-APR-2024 14:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Last Edit : 06-Jun-2024 11:07 SV6.i
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Compound	0.01000 Level 1 / 0.20000 Level 7	0.03000 Level 2 / 0.50000 Level 8	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	RRF	% RSD
1 1,4-Dioxane	0.26786 / 0.21892	0.20193 / 0.19957	0.21510	0.19340	0.20406	0.21271	0.21419	10.884
$ 9 2-Fluorophenol	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####
$ 13 Phenol-d6	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####

$ 33 Nitrobenzene-d5	0.25417	0.27709	0.33446	0.25539	0.31770	0.31230		
	0.32399	0.32657					0.30021	10.938
$ 69 2-Fluorobiphenyl	1.58567	1.48291	1.52552	1.25243	1.62605	1.59900		
	1.54935	1.60832					1.52866	7.930
$ 105 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
$ 158 4-Terphenyl-d14	2.22448	1.99483	2.00359	1.46918	2.10278	2.04892		
	2.19122	2.26244					2.03718	12.300

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060899

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060899

RunID 11.D

Semi-Volatiles by Semivolatiles SIM

Sample Matrix LIQUID
Lab Smp Id 14DX ICV-0.08
Data Type MS DATA
File ID 11.D

Fraction SV
Client Smp ID 14DX ICV-0.08
SampleType METHSPIKE
Inj Date 18-APR-2024 1453

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.080	0.076	94.6	40-140	
Nitrobenzene-d5	0.080	0.073	91.4	40-140	
2-Fluorobiphenyl	0.080	0.070	88.0	40-140	
4-Terphenyl-d14	0.080	0.071	88.2	40-140	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060899

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060899

RunID 04.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 04.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 21-JUN-2024 1236
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.302	0.010	0.582	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.36	0.010	-11.354	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.72	0.010	-15.343	20.0	Averaged	
1,4-Dioxane	0.214	0.209	0.010	-2.451	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060899

RunID 05A.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 05A.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 29-JUN-2024 1358
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.261	0.010	-12.979	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.34	0.010	-12.276	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.63	0.010	-19.957	20.0	Averaged	
1,4-Dioxane	0.214	0.180	0.010	-15.962	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060899

RunID 23.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 23.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 29-JUN-2024 1919
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.247	0.010	-17.572	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.39	0.010	-9.071	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.18	0.010	-42.007	20.0	Averaged	*
1,4-Dioxane	0.214	0.180	0.010	-15.915	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060899

RunID 28.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 28.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 21-JUN-2024 2010
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.265	0.010	-11.640	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.43	0.010	-6.735	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.64	0.010	-19.633	20.0	Averaged	
1,4-Dioxane	0.214	0.203	0.010	-5.070	20.0	Averaged	

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/21/24

Instrument ID: SV6 Time Analyzed: 1236

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS1(DCB) AREA #	IS1(DCB) RT #	IS2(NPT) AREA #	IS2(NPT) RT #	IS3(ANT) AREA #	IS3(ANT) RT #
	12 HOUR STD	1705	2.11	5452	3.10	3616	4.70
	UPPER LIMIT	3410	2.61	10904	3.60	7232	5.20
	LOWER LIMIT	853	1.61	2726	2.60	1808	4.20
	CLIENT SAMPLE NO.						
01	MBLK-213652	2291	2.11	4515	3.10	2790	4.70
02	LCS1-213652	2613	2.12	5570	3.10	3363	4.70
03	LCSD1-213652	2300	2.11	4598	3.10	2809	4.70
04	HS24060899-3	2603	2.12	5758	3.11	3501	4.70
05	HS24060899-4	2502	2.12	5216	3.11	3738	4.70
06	HS24060899-5	2321	2.12	4700	3.11	3467	4.70
07	HS24060899-6	2716	2.12	5915	3.11	3636	4.70
08	HS24060899-7	2369	2.12	4648	3.11	2951	4.70
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/21/24

Instrument ID: SV6 Time Analyzed: 1236

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	6866	6.10	6155	8.64	5812	10.24
	UPPER LIMIT	13732	6.60	12310	9.14	11624	10.74
	LOWER LIMIT	3433	5.60	3078	8.14	2906	9.74
	CLIENT SAMPLE NO.						
01	MBLK-213652	5050	6.10	4649	8.64	4760	10.24
02	LCS1-213652	6471	6.10	5854	8.64	5878	10.24
03	LCSD1-213652	5391	6.10	4781	8.64	4656	10.24
04	HS24060899-3	6782	6.10	6187	8.64	6186	10.24
05	HS24060899-4	6204	6.10	5748	8.64	5735	10.24
06	HS24060899-5	5686	6.10	5262	8.64	5276	10.24
07	HS24060899-6	7068	6.10	6637	8.64	6692	10.24
08	HS24060899-7	5650	6.10	5217	8.64	5283	10.25
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 05A Date Analyzed: 06/29/24

Instrument ID: SV6 Time Analyzed: 1358

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	1993	1.93	7115	2.88	4286	4.46
	UPPER LIMIT	3986	2.43	14230	3.38	8572	4.96
	LOWER LIMIT	997	1.43	3558	2.38	2143	3.96
	CLIENT SAMPLE NO.						
01	HS24060899-2	2675	1.92	5156	2.88	3466	4.46
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 05A Date Analyzed: 06/29/24

Instrument ID: SV6 Time Analyzed: 1358

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	8105		5.85		6578		8.36		6794		9.86	
	UPPER LIMIT	16210		6.35		13156		8.86		13588		10.36	
	LOWER LIMIT	4053		5.35		3289		7.86		3397		9.36	
	CLIENT SAMPLE NO.												
01	HS24060899-2	6765		5.85		6653		8.36		6005		9.85	
02													
03													
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

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Form 12

Preparation Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060899

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Prep Batch Report

Batch ID:	213652	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	17 Jun 2024 07:00 AM	**Original Factor:**	0.001
End Date:	17 Jun 2024 11:30 AM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060638-02	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060638-03	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060779-02	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060795-01	A	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060795-02	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060795-06	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060795-07	D	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060795-08	D	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-02	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-03	D	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-04	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-05	D	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-06	C	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060899-07	D	Water	7	1000	1	0.001	1	phadj1/13clno
HS24060984-01	A	Water	5	1000	1	0.001	1	phadj1/13clno
LCS-213652	A		5	1000	1	0.001	1	phadj1/13clno
LCS1-213652	A		5	1000	1	0.001	1	phadj1/13clno
LCSD-213652	A		5	1000	1	0.001	1	phadj1/13clno
LCSD1-213652	A		5	1000	1	0.001	1	phadj1/13clno
MBLK-213652	A		5	1000	1	0.001	1	phadj1/13clno

Prep Batch Report

Batch ID:	213652	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	17 Jun 2024 07:00 AM	**Original Factor:**	0.001
End Date:	17 Jun 2024 11:30 AM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Stage	Description	Value
3510/3511	Chlorine Strips ID:	3001070211-06
3510_B	pH Paper:	300107092-11
3510_B	Methylene Chloride ID:	300107098-18
3510_B	50% NaoH ID:	300107078-21
3510_B	NaoH Volume (mL):	8
3510_B	50:50 Sulfuric Acid ID:	300107095-06
3510_B	Sulfuric Acid Volume (mL):	8ml
3510_B	Syringe ID:	3510-bsim
3510_B	LCS/MS Spike ID:	3231538-11
3510_B	LCS/MS Volume (mL):	1ml
3510_B	LCS/MS Spike #2 ID (If needed):	3231510-05
3510_B	LCS/MS Spike #2 Volume (mL):	1
3510_B	LCS/MS Spike #3 ID (If needed):	na
3510_B	LCS/MS Spike #3 Volume (mL):	na
3510_B	Sodium Sulfate ID:	3142131-21
3510_B	Glass Wool ID:	300107067-15
3510_B	TurboVap Unit(s):	j (1-6) n (7-13)d(14-20)l ()
3510_B	TurboVap Temp (C):	39-40
3510_B	TurboVap Pressure (PSI):	9-11
3510_B	Time in TurboVap (Hrs):	1.5 hr
3510_B	Vial Lot:	300107091-08
3510_B	CleanUp Performed:	na
3510_B	Surrogate ID:	320077506
3510_B	Surrogate Volume (mL):	1ml

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Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060899

Client

Bhate Environmental Associates, Inc.

Project

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07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

SV06 -Logbook

Batch: 59721 **Analyst:** Marco Gutierrez

Date: 04-18-2024 **Reviewer:**

Method: R8270D 14dx ICAL **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	04-18-2024 10:39 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	04-18-2024 10:51 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	14DX-0.08	ICAL4	04-18-2024 12:24 pm	1.00	1000.00 mL	1000.00 mL	03A.D	Liquid	Y	NA
4	14DX-0.01	ICAL1	04-18-2024 12:49 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	14DX-0.03	ICAL2	04-18-2024 01:07 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	14DX-0.05	ICAL3	04-18-2024 01:25 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	14DX-0.10	ICAL5	04-18-2024 01:42 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	14DX-0.15	ICAL6	04-18-2024 02:00 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	14DX-0.20	ICAL7	04-18-2024 02:18 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	14DX-0.50	ICAL8	04-18-2024 02:35 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	14DX ICV-0.08	ICV	04-18-2024 02:53 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	SIM CCB	SAMP	04-18-2024 04:10 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	MBLK-210508	SAMP	04-18-2024 04:28 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCS-210508	SAMP	04-18-2024 04:45 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCSD-210508	SAMP	04-18-2024 05:03 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24040786-01	SAMP	04-18-2024 05:21 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	14DX-0.08	SAMP	04-18-2024 05:38 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	SIM CCB	SAMP	04-18-2024 05:56 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24040667-03	SAMP	04-18-2024 06:14 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24040816-04	SAMP	04-18-2024 06:31 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24040816-05	SAMP	04-18-2024 06:49 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24040816-06	SAMP	04-18-2024 07:06 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24041063-01	SAMP	04-18-2024 07:24 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24041063-02	SAMP	04-18-2024 07:41 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24041063-03	SAMP	04-18-2024 07:59 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA

SV06 -Logbook

Batch: 60464 **Analyst:** Marco Gutierrez

Date: 06-21-2024 **Reviewer:**

Method: R8270D SIM/14DX **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	06-21-2024 10:48 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	06-21-2024 11:00 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	PAHSIM-0.08	CCV	06-21-2024 12:16 pm	1.00	1000.00 mL	1000.00 mL	03.D	Liquid	Y	NA
4	14DX-0.08	CCV	06-21-2024 12:36 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	SIM CCB	SAMP	06-21-2024 01:06 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	MBLK-213834	MBLK	06-21-2024 01:23 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	LCS-213834	LCS	06-21-2024 01:43 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	LCSD-213834	LCSD	06-21-2024 02:03 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	HS24061001-02	SAMP	06-21-2024 02:24 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	HS24061001-03	SAMP	06-21-2024 02:44 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	MBLK-213652	SAMP	06-21-2024 03:04 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	LCS1-213652	SAMP	06-21-2024 03:21 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	LCSD1-213652	SAMP	06-21-2024 03:39 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	MBLK-213834	MBLK	06-21-2024 04:00 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCS-213834	LCS	06-21-2024 04:20 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24060487-09X10	SAMP	06-21-2024 04:41 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS24060795-01	SAMP	06-21-2024 04:58 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS24060795-02	SAMP	06-21-2024 05:16 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24060795-06	SAMP	06-21-2024 05:33 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24060795-07	SAMP	06-21-2024 05:51 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24060795-08	SAMP	06-21-2024 06:08 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24060899-02	SAMP	06-21-2024 06:26 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24060899-03	SAMP	06-21-2024 06:43 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24060899-04	SAMP	06-21-2024 07:01 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24060899-05	SAMP	06-21-2024 07:18 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS24060899-06	SAMP	06-21-2024 07:36 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	HS24060899-07	SAMP	06-21-2024 07:53 pm	1.00	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
28	14DX-0.08	SAMP	06-21-2024 08:10 pm	1.00	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
29	SIM CCB	SAMP	06-21-2024 08:28 pm	1.00	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
30	MBLK-213491	SAMP	06-21-2024 08:45 pm	1.00	1000.00 mL	1000.00 mL	30.D	Liquid	Y	NA
31	LCS-213491	SAMP	06-21-2024 09:03 pm	1.00	1000.00 mL	1000.00 mL	31.D	Liquid	Y	NA
32	LCSD-213491	SAMP	06-21-2024 09:20 pm	1.00	1000.00 mL	1000.00 mL	32.D	Liquid	Y	NA
33	HS24060766-01	SAMP	06-21-2024 09:38 pm	1.00	1000.00 mL	1000.00 mL	33.D	Liquid	Y	NA
34	HS24060766-02	SAMP	06-21-2024 09:55 pm	1.00	1000.00 mL	1000.00 mL	34.D	Liquid	Y	NA
35	HS24060766-03	SAMP	06-21-2024 10:13 pm	1.00	1000.00 mL	1000.00 mL	35.D	Liquid	Y	NA
36	HS24060766-04	SAMP	06-21-2024 10:30 pm	1.00	1000.00 mL	1000.00 mL	36.D	Liquid	Y	NA
37	HS24060766-05	SAMP	06-21-2024 10:48 pm	1.00	1000.00 mL	1000.00 mL	37.D	Liquid	Y	NA
38	HS24060619-07	SAMP	06-21-2024 11:05 pm	1.00	1000.00 mL	1000.00 mL	38.D	Liquid	Y	NA
39	HS24060619-08	SAMP	06-21-2024 11:23 pm	1.00	1000.00 mL	1000.00 mL	39.D	Liquid	Y	NA
40	HS24060619-09	SAMP	06-21-2024 11:40 pm	1.00	1000.00 mL	1000.00 mL	40.D	Liquid	Y	NA
41	HS24060619-10	SAMP	06-21-2024 11:57 pm	1.00	1000.00 mL	1000.00 mL	41.D	Liquid	Y	NA

SV06 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
42	HS24060619-11	SAMP	06-22-2024 12:15 am	1.00	1000.00 mL	1000.00 mL	42.D	Liquid	Y	NA
43	HS24060619-12	SAMP	06-22-2024 12:32 am	1.00	1000.00 mL	1000.00 mL	43.D	Liquid	Y	NA

SV06 -Logbook

Batch: 60588 **Analyst:** Marco Gutierrez

Date: 06-29-2024 **Reviewer:**

Method: R8270D 14DX/LVI **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	06-29-2024 11:59 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	06-29-2024 12:12 pm	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	DFTPP	TUNE	06-29-2024 12:31 pm	1.00	0.00 gm	0.00 mL	03.D		Y	NA
4	PAHLVI-0.025	CCV	06-29-2024 12:51 pm	1.00	33.00 mL	2000.00 mL	04.D	Liquid	Y	NA
5	14DX-0.08	CCV	06-29-2024 01:58 pm	1.00	1000.00 mL	1000.00 mL	05A.D	Liquid	Y	NA
6	HS24060795-01X10	SAMP	06-29-2024 02:23 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	HS24060899-02X10	SAMP	06-29-2024 02:40 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	MBLK-213834	SAMP	06-29-2024 02:58 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	LCS-213834	SAMP	06-29-2024 03:15 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	LCSD-213834	SAMP	06-29-2024 03:33 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	HS24060985-03	SAMP	06-29-2024 03:50 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	HS24060985-04	SAMP	06-29-2024 04:08 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	HS24060985-05	SAMP	06-29-2024 04:25 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	HS24060985-06	SAMP	06-29-2024 04:42 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	HS24060985-07	SAMP	06-29-2024 05:00 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24060985-08	SAMP	06-29-2024 05:17 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS24061218-01	SAMP	06-29-2024 05:35 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS24061218-02	SAMP	06-29-2024 05:52 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24061218-03	SAMP	06-29-2024 06:10 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24061218-04	SAMP	06-29-2024 06:27 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24061218-05	SAMP	06-29-2024 06:45 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24061218-06	SAMP	06-29-2024 07:02 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	14DX-0.08	SAMP	06-29-2024 07:19 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24060619-07	SAMP	06-29-2024 07:37 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24060619-08	SAMP	06-29-2024 07:54 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS24060619-09	SAMP	06-29-2024 08:12 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	HS24060619-10	SAMP	06-29-2024 08:29 pm	1.00	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
28	HS24060619-11	SAMP	06-29-2024 08:47 pm	1.00	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
29	HS24060619-12	SAMP	06-29-2024 09:04 pm	1.00	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
30	HS24061052-01	SAMP	06-29-2024 09:21 pm	1.00	1000.00 mL	1000.00 mL	30.D	Liquid	Y	NA
31	MBLK-214211	SAMP	06-29-2024 09:39 pm	1.00	33.00 mL	2000.00 mL	31.D	Liquid	Y	NA
32	LCS-214211	SAMP	06-29-2024 09:56 pm	1.00	33.00 mL	2000.00 mL	32.D	Liquid	Y	NA
33	LCSD-214211	SAMP	06-29-2024 10:14 pm	1.00	33.00 mL	2000.00 mL	33.D	Liquid	Y	NA
34	HS24061637-01	SAMP	06-29-2024 10:31 pm	1.00	33.00 mL	2000.00 mL	34.D	Liquid	Y	NA
35	HS24060967-01X1H	SAMP	06-29-2024 10:48 pm	1.00	33.00 mL	2000.00 mL	35.D	Liquid	Y	NA
36	HS24060967-01X10	SAMP	06-29-2024 11:06 pm	1.00	33.00 mL	2000.00 mL	36.D	Liquid	Y	NA
37	HS24061616-01	SAMP	06-29-2024 11:23 pm	1.00	33.00 mL	2000.00 mL	37.D	Liquid	Y	NA

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\01.D Page 1
Report Date: 21-Jun-2024 11:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-JUN-2024 10:48
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240621.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.191	5.571	-1.380	198	81536			0.00- 100.00	99.95
4.191	6.357	-2.166	51	22288			10.00- 80.00	27.34
4.191	6.357	-2.166	68	381			0.00- 2.00	1.46
4.191	6.357	-2.166	69	26048			0.00- 0.00	31.95
4.191	6.357	-2.166	70	0	0.0	0.0	0.00- 2.00	0.00
4.191	6.357	-2.166	127	32744			10.00- 80.00	40.16
4.191	6.357	-2.166	197	0	0.0	0.0	0.00- 2.00	0.00
4.191	6.357	-2.166	199	5564			5.00- 9.00	6.82
4.191	6.357	-2.166	275	21264			10.00- 60.00	26.08
4.191	6.357	-2.166	365	2542			1.00- 100.00	3.12
4.191	6.357	-2.166	441	11605			0.01- 99.99	67.94
4.191	6.357	-2.166	442	81576			50.00- 150.00	100.05
4.191	6.357	-2.166	443	17080			15.00- 24.00	20.94

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
198	Base Peak, 100% relative abundance	0.00	*
51	10.00 - 80.00% of mass 198	0.00	*
68	Less than 2.00% of mass 69	0.00 (0.00)	
69	Mass 69 relative abundance	0.00	
70	Less than 2.00% of mass 69	0.00 (246.54)	*
127	10.00 - 80.00% of mass 198	0.00	*
197	Less than 2.00% of mass 198	0.00	
199	5.00 - 9.00% of mass 198	0.00	*
275	10.00 - 60.00% of mass 198	0.00	*
365	1.00 - 100.00% of mass 198	0.00	*
441	Present, but less than mass 443	0.00	*
442	50.00 - 150.00% of mass 198	0.00	*
443	15.00 - 24.00% of mass 442	0.00 (0.00)	*

Data File: 01.D
Spectrum: Avg. Scans 473-475 (5.12), Background Scan 465
Location of Maximum: 184.00
Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	54	73.00	226	107.00	175	150.00	482
37.00	158	74.00	1635	110.00	155	151.00	1072
38.00	834	75.00	2373	111.00	164	152.00	1414
39.00	2580	76.00	2208	112.00	161	153.00	1442
40.00	712	77.00	7141	113.00	1197	154.00	7851
41.00	1803	78.00	5019	114.00	1427	155.00	3627
42.00	626	79.00	390	115.00	5475	156.00	20584
43.00	146	80.00	513	116.00	2610	157.00	5077
49.00	47	82.00	356	117.00	8516	158.00	2492
50.00	1560	83.00	2209	118.00	1346	159.00	280
51.00	3351	84.00	764	119.00	528	164.00	682
52.00	3378	86.00	832	124.00	108	165.00	897
53.00	1216	87.00	1098	125.00	400	166.00	12152
54.00	1689	88.00	873	126.00	1723	167.00	16039
55.00	141	89.00	3767	127.00	5841	168.00	7453
56.00	63	90.00	2121	128.00	9209	169.00	3188
57.00	115	91.00	11472	129.00	3264	170.00	428
58.00	156	92.00	20504	130.00	10682	179.00	470
61.00	742	93.00	5617	131.00	1953	180.00	241
62.00	1775	94.00	387	132.00	710	181.00	5244
63.00	3864	98.00	413	137.00	304	182.00	12294
64.00	2287	99.00	655	138.00	559	183.00	41504
65.00	6689	100.00	553	139.00	7098	184.00	382592
66.00	1873	101.00	1788	140.00	4627	185.00	51584
67.00	964	102.00	2941	141.00	3292	186.00	3315
69.00	376	103.00	2707	142.00	1588	187.00	60
70.00	927	104.00	1651	143.00	3674	207.00	115
71.00	66	105.00	220	144.00	841		
72.00	178	106.00	1027	145.00	297		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D Page 1
Report Date: 21-Jun-2024 13:02

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 21-JUN-2024 12:36
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 21-Jun-2024 12:59 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.113	2.113	(1.000)	1705	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.103	3.103	(1.000)	5452	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.521	2.521	(0.813)	1317	0.08000	0.08046(M)
* 86 Acenaphthene-d10	164	4.698	4.698	(1.000)	3616	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.091	4.091	(0.871)	3920	0.08000	0.07092(M)
* 126 Phenanthrene-d10	188	6.098	6.098	(1.000)	6866	0.10000	(M)
* 182 Chrysene-d12	240	8.636	8.636	(1.000)	6155	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	8492	0.08000	0.06772(M)
* 198 Perylene-d12	264	10.244	10.244	(1.000)	5812	0.10000	(M)
1 1,4-Dioxane	58	0.853	0.853	(0.404)	285	0.08000	0.07804(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D

Date : 21-JUN-2024 12:36

Client ID: 14DX-0.08

Instrument: SV6.i

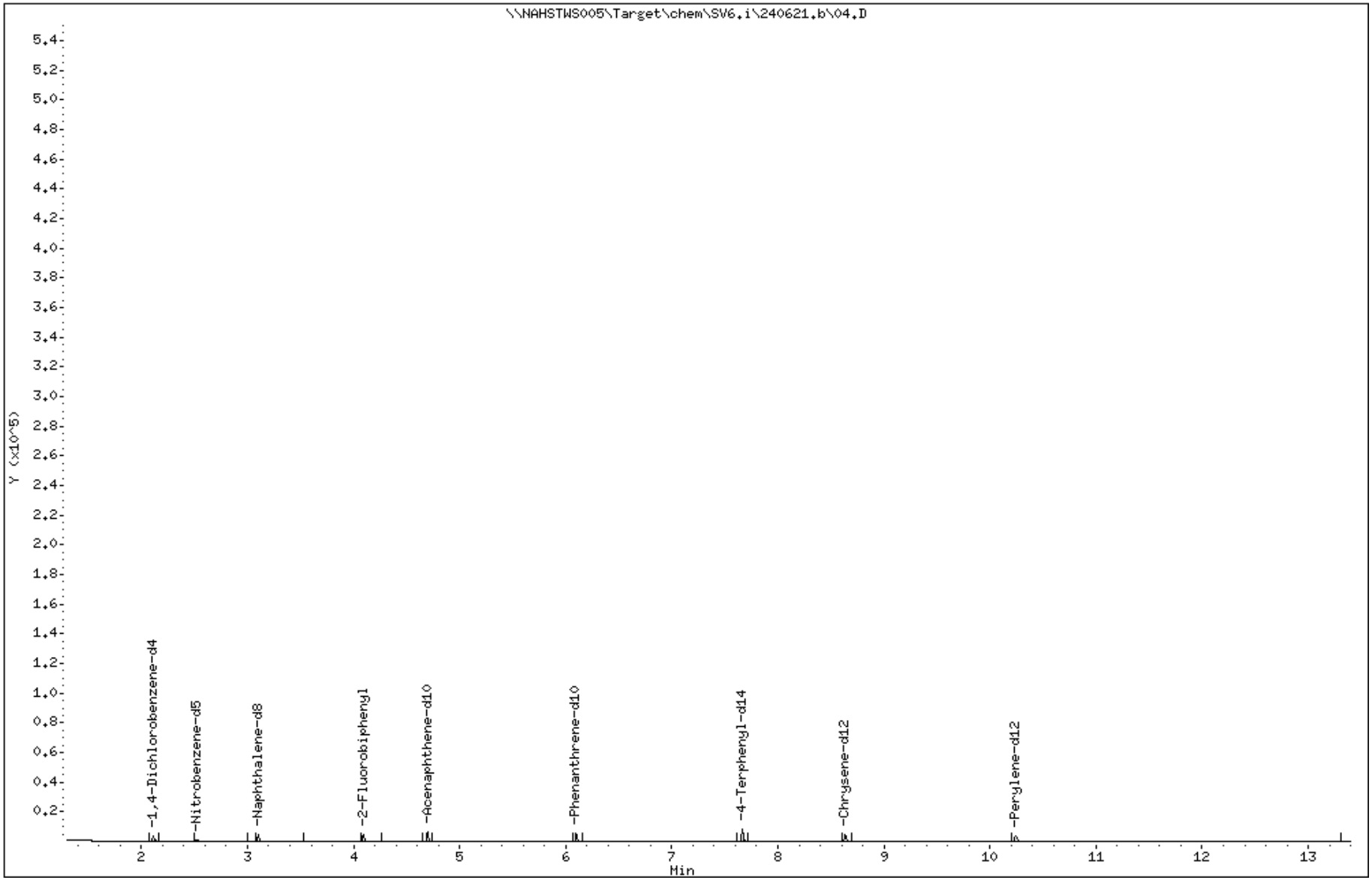
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



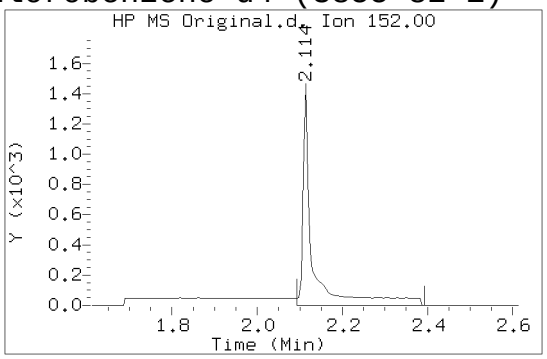
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Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

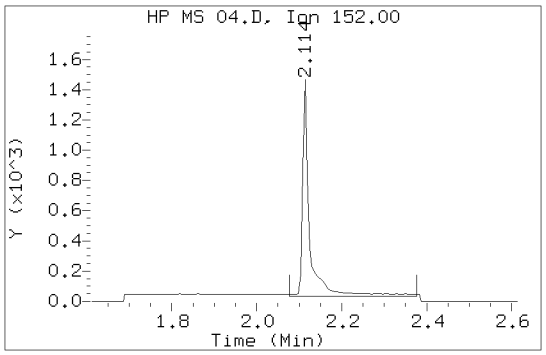
BEFORE

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152
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2281
HEIGHT
1466
21-Jun-2024
12:51
ALSHS
Server



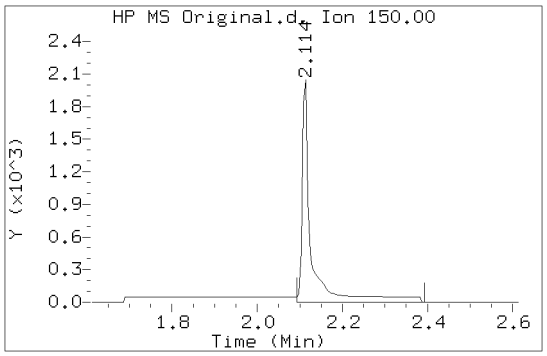
AFTER

MASS
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AREA
1705
HEIGHT
1433
21-Jun-2024
13:02



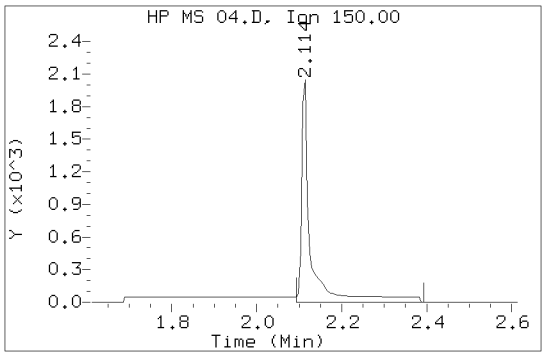
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AREA
3107
HEIGHT
2046
21-Jun-2024
12:51
ALSHS
Server



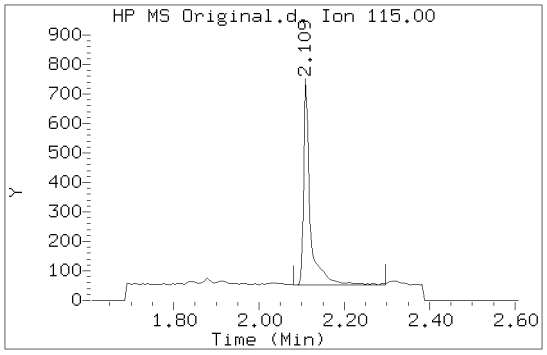
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AREA
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HEIGHT
2046
21-Jun-2024
13:02



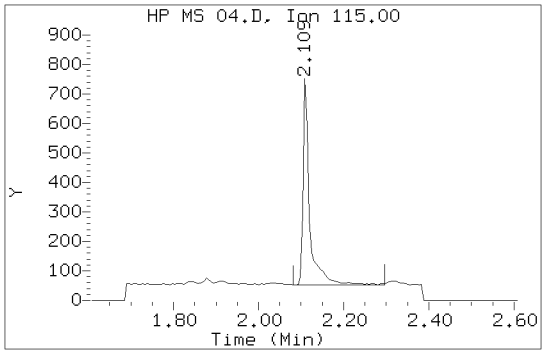
BEFORE

MASS
115
AREA
750
HEIGHT
699
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
115
AREA
750
HEIGHT
699
21-Jun-2024
13:02

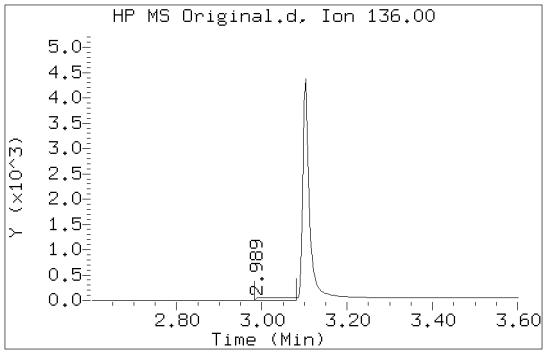


Naphthalene-d8 (1146-65-2)

Reason Code:

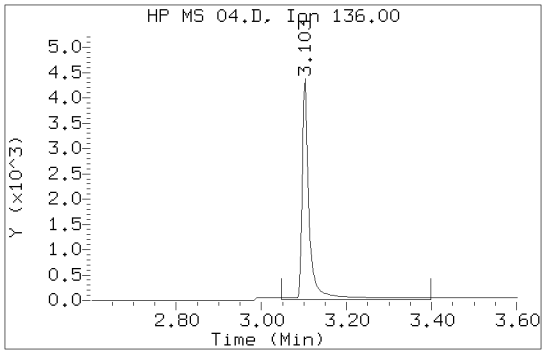
BEFORE

MASS
136
AREA
268
HEIGHT
47
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
136
AREA
5452
HEIGHT
4372
21-Jun-2024
13:02



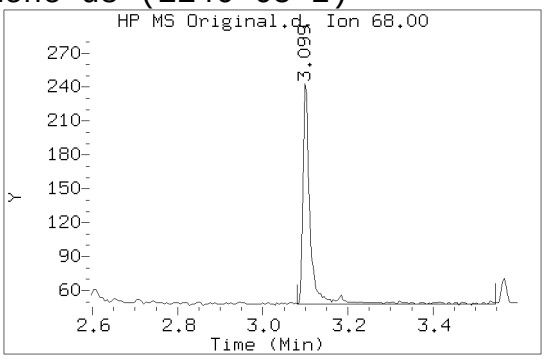
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Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

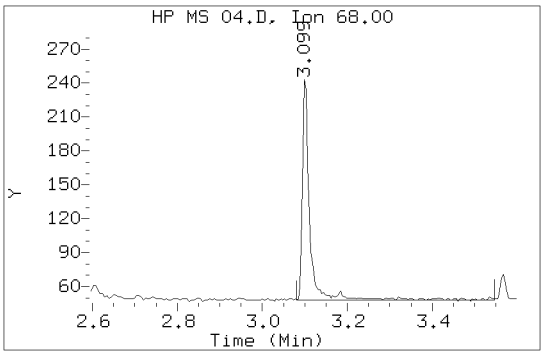
BEFORE

MASS
68
AREA
237
HEIGHT
195
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
68
AREA
237
HEIGHT
195
21-Jun-2024
13:02

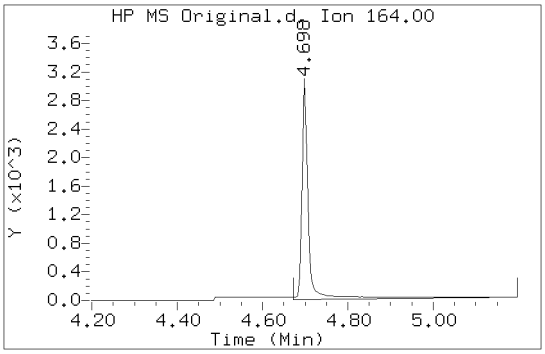


Acenaphthene-d10 (15067-26-2)

Reason Code:

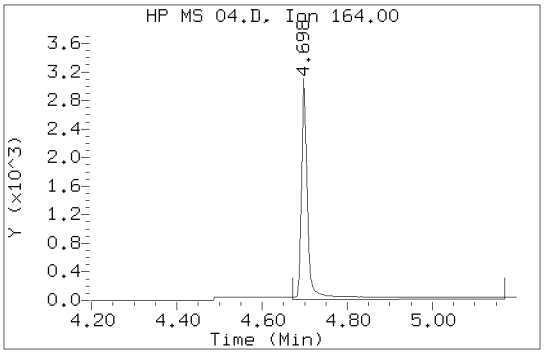
BEFORE

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AREA
3296
HEIGHT
3091
21-Jun-2024
12:51
ALSHS
Server



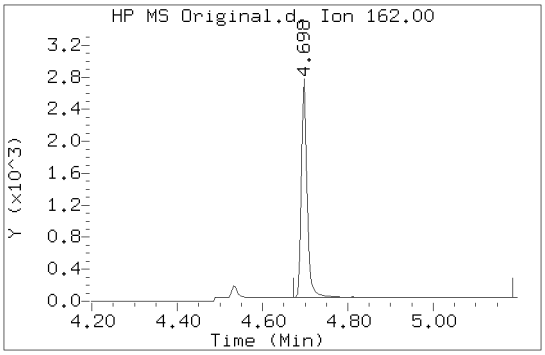
AFTER

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164
AREA
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HEIGHT
3091
21-Jun-2024
13:02



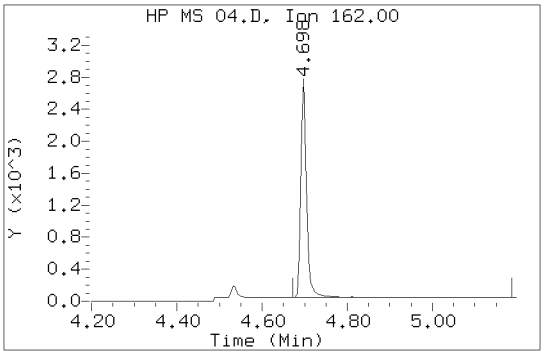
BEFORE

MASS
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AREA
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HEIGHT
2734
21-Jun-2024
12:51
ALSHS
Server



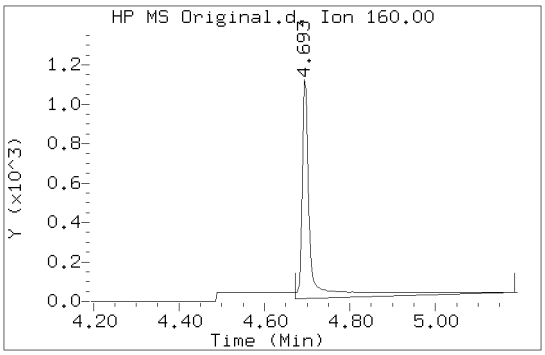
AFTER

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162
AREA
2557
HEIGHT
2734
21-Jun-2024
13:02



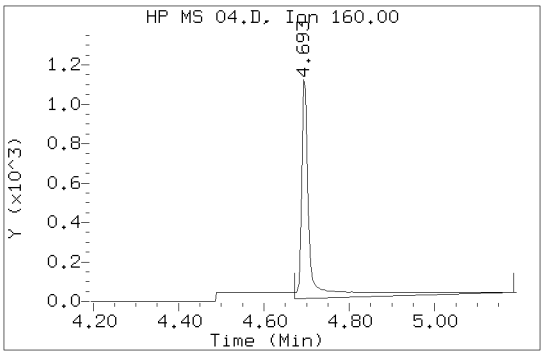
BEFORE

MASS
160
AREA
1602
HEIGHT
1111
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
160
AREA
1602
HEIGHT
1111
21-Jun-2024
13:02



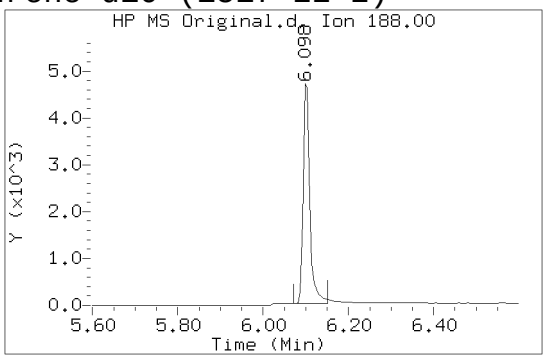
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Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

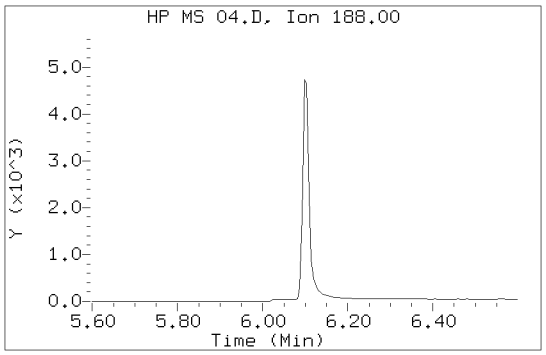
BEFORE

MASS
188
AREA
5054
HEIGHT
4686
21-Jun-2024
12:51
ALSHS
Server



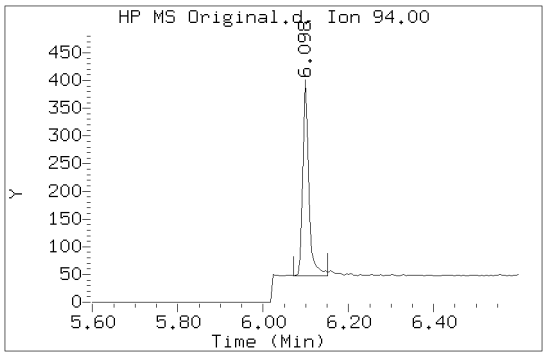
AFTER

MASS
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AREA
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HEIGHT
4731
21-Jun-2024
13:02



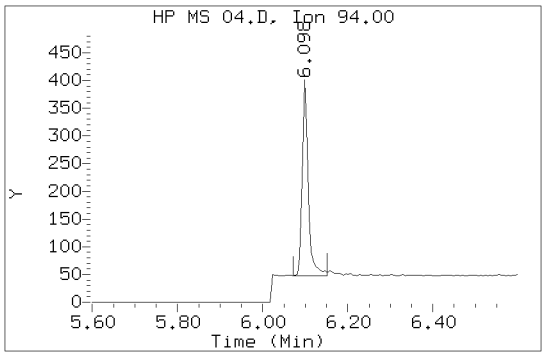
BEFORE

MASS
94
AREA
345
HEIGHT
353
21-Jun-2024
12:51
ALSHS
Server



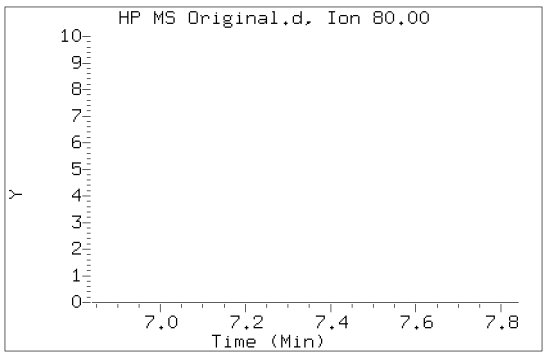
AFTER

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AREA
345
HEIGHT
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21-Jun-2024
13:02



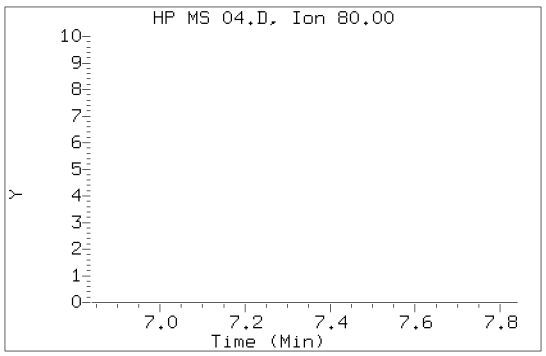
BEFORE

MASS
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AREA
0
HEIGHT
0
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
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AREA
0
HEIGHT
0
21-Jun-2024
13:02

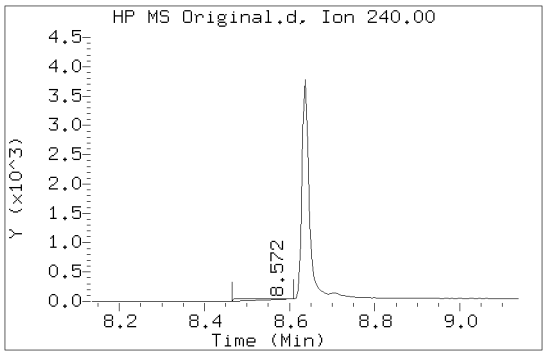


Chrysene-d12 (1719-03-5)

Reason Code:

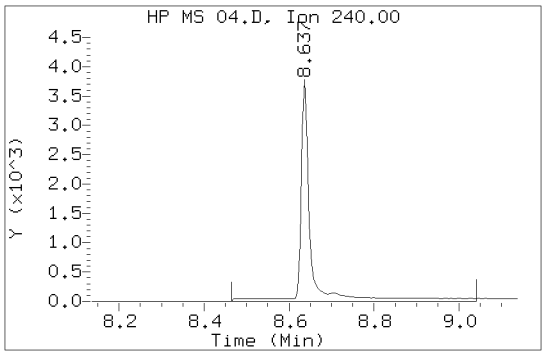
BEFORE

MASS
240
AREA
188
HEIGHT
12
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
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AREA
6155
HEIGHT
3776
21-Jun-2024
13:02



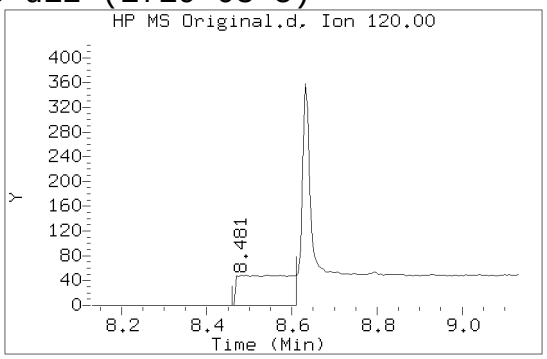
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D
Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

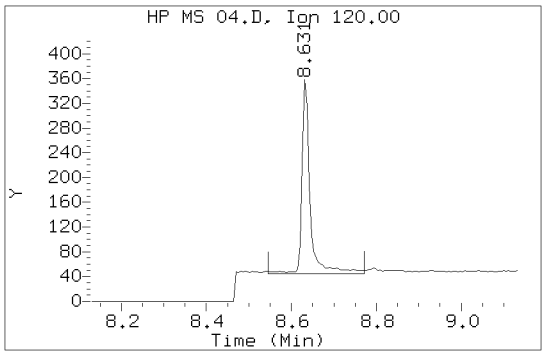
BEFORE

MASS
120
AREA
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HEIGHT
49
21-Jun-2024
12:51
ALSHS
Server



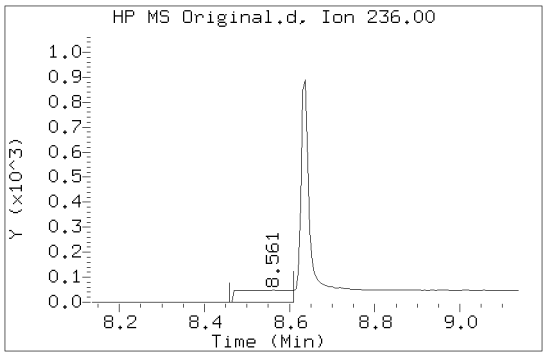
AFTER

MASS
120
AREA
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HEIGHT
314
21-Jun-2024
13:02



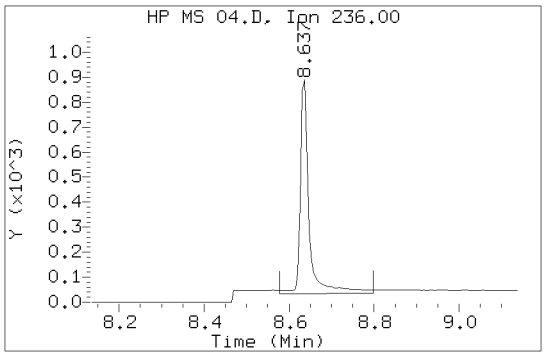
BEFORE

MASS
236
AREA
405
HEIGHT
48
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
236
AREA
1218
HEIGHT
854
21-Jun-2024
13:02

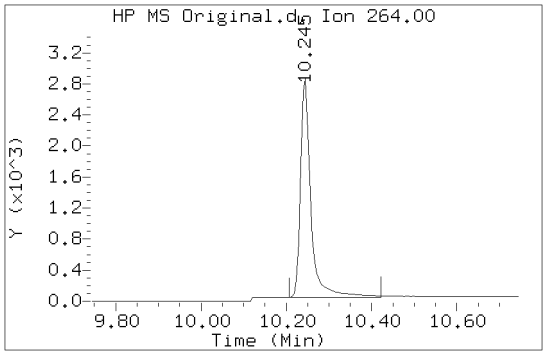


Perylene-d12 (1520-96-3)

Reason Code:

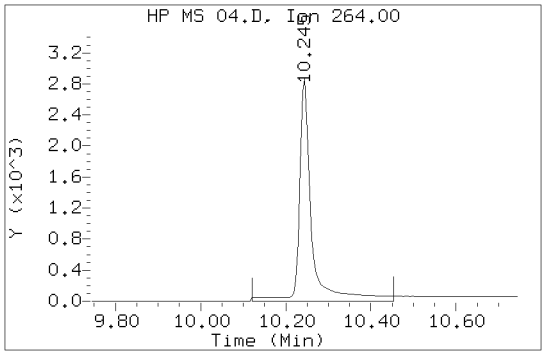
BEFORE

MASS
264
AREA
4758
HEIGHT
2813
21-Jun-2024
12:51
ALSHS
Server



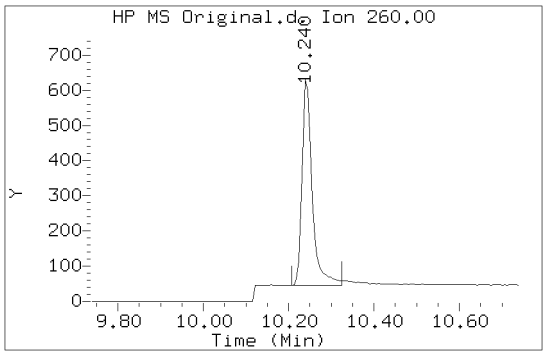
AFTER

MASS
264
AREA
5812
HEIGHT
2864
21-Jun-2024
13:02



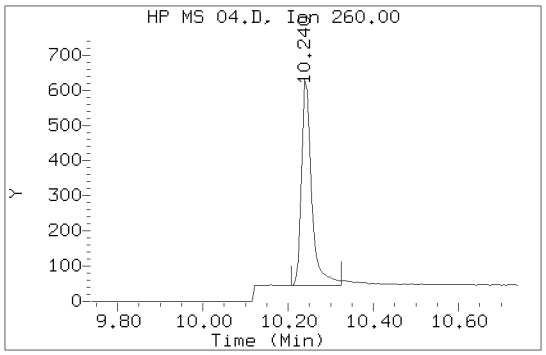
BEFORE

MASS
260
AREA
960
HEIGHT
584
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
260
AREA
960
HEIGHT
584
21-Jun-2024
13:02



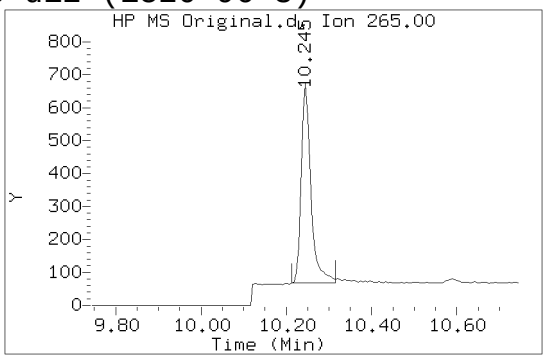
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D
Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

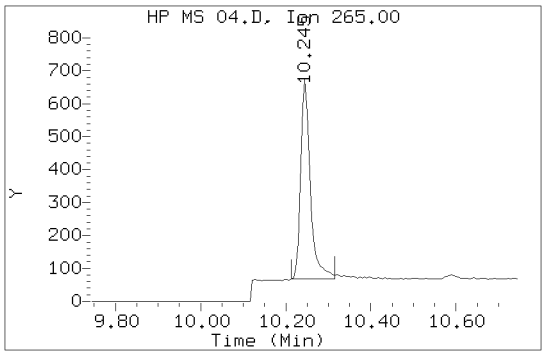
BEFORE

MASS
265
AREA
949
HEIGHT
605
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
265
AREA
949
HEIGHT
605
21-Jun-2024
13:02

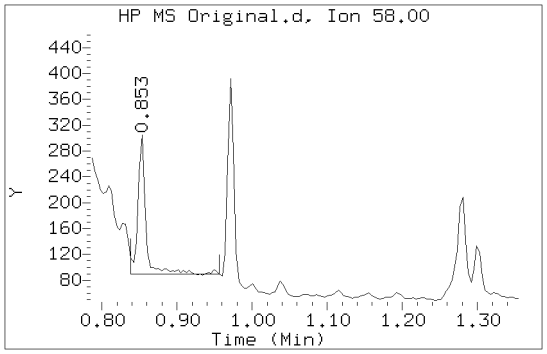


1,4-Dioxane ()

Reason Code:

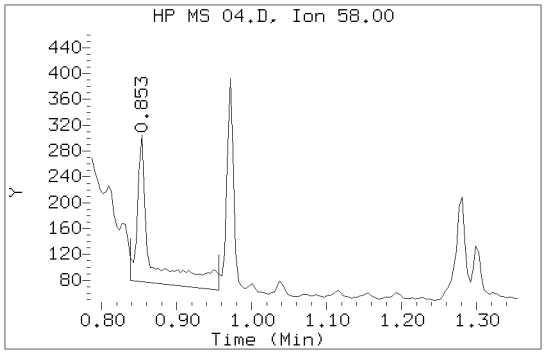
BEFORE

MASS
58
AREA
158
HEIGHT
215
21-Jun-2024
12:51
ALSHS
Server



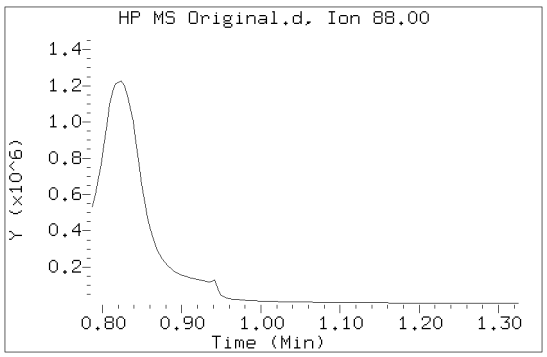
AFTER

MASS
58
AREA
285
HEIGHT
226
21-Jun-2024
13:02



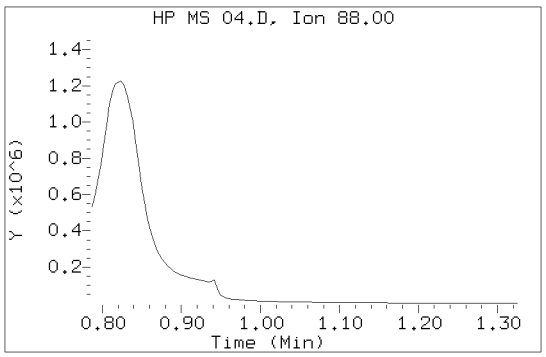
BEFORE

MASS
88
AREA
4530738
HEIGHT
1225858
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
88
AREA
4530738
HEIGHT
1225858
21-Jun-2024
13:02

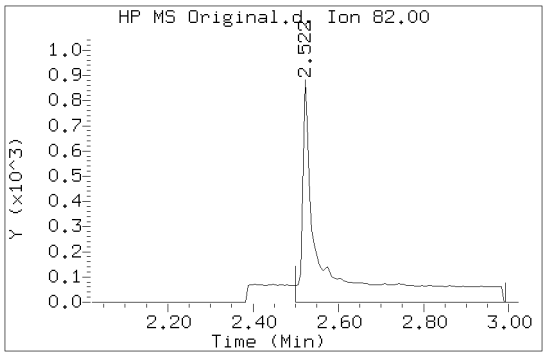


Nitrobenzene-d5 (4165-60-0)

Reason Code:

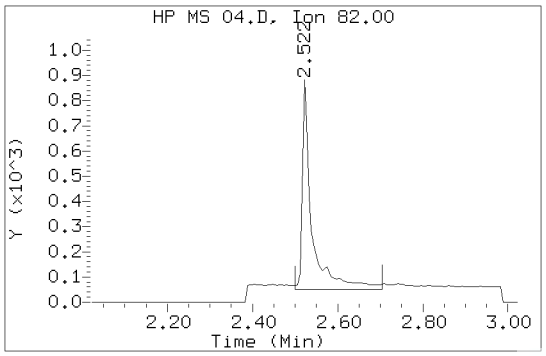
BEFORE

MASS
82
AREA
3012
HEIGHT
882
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
82
AREA
1317
HEIGHT
832
21-Jun-2024
13:02



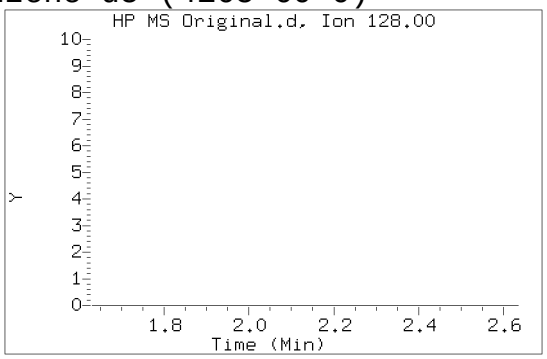
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D
Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

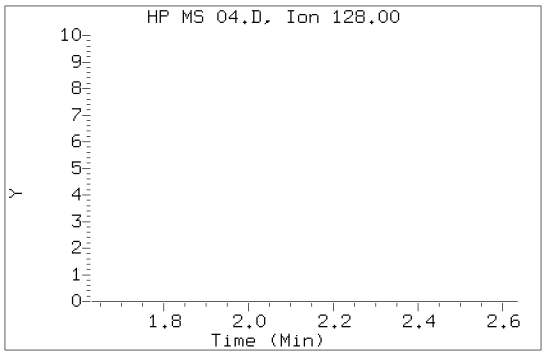
BEFORE

MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
12:51
ALSHS
Server



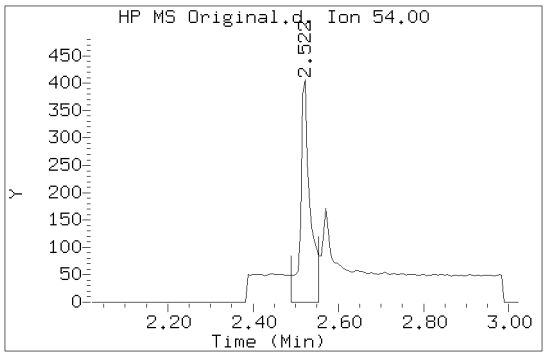
AFTER

MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
13:02



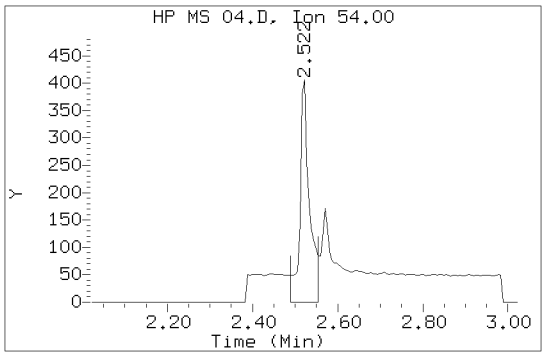
BEFORE

MASS
54
AREA
644
HEIGHT
406
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
54
AREA
644
HEIGHT
406
21-Jun-2024
13:02

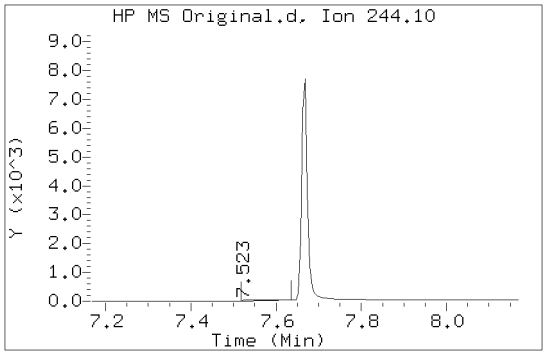


4-Terphenyl-d14 (1718-51-0)

Reason Code:

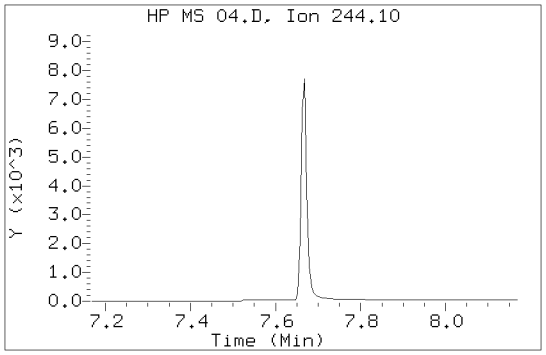
BEFORE

MASS
244.1
AREA
151
HEIGHT
42
21-Jun-2024
12:51
ALSHS
Server



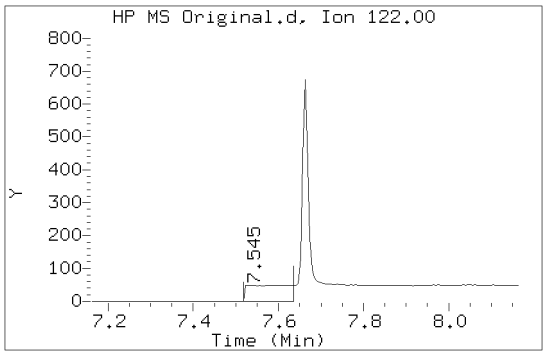
AFTER

MASS
244.1
AREA
8492
HEIGHT
7688
21-Jun-2024
13:02



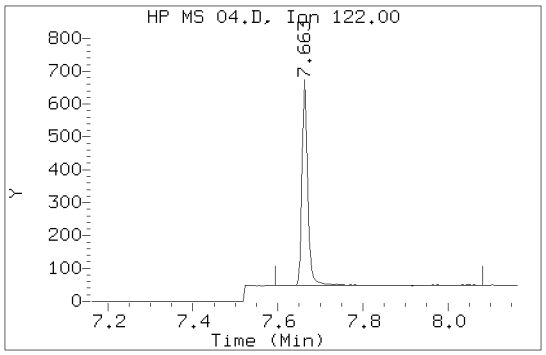
BEFORE

MASS
122
AREA
340
HEIGHT
49
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
122
AREA
609
HEIGHT
626
21-Jun-2024
13:02



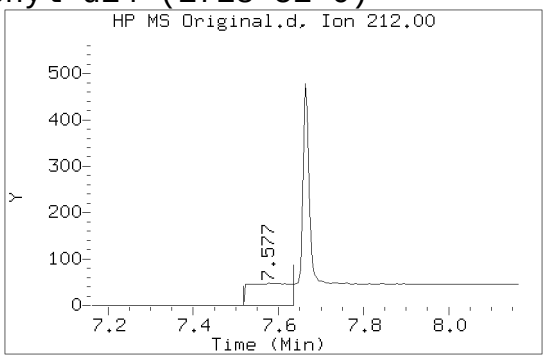
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\04.D
Inj Date : 21-JUN-2024 12:36
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

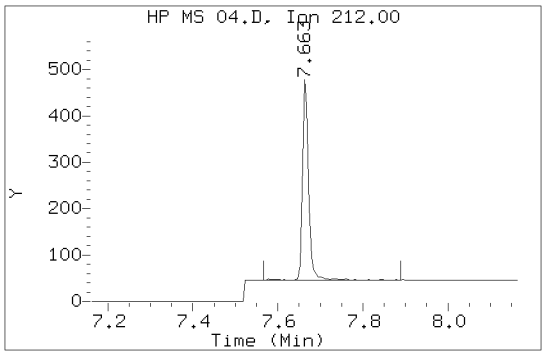
BEFORE

MASS
212
AREA
328
HEIGHT
48
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
212
AREA
437
HEIGHT
432
21-Jun-2024
13:02

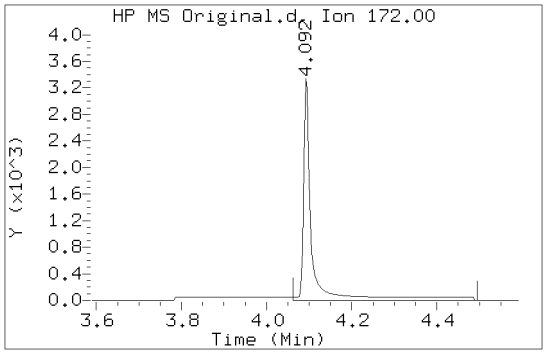


2-Fluorobiphenyl (321-60-8)

Reason Code:

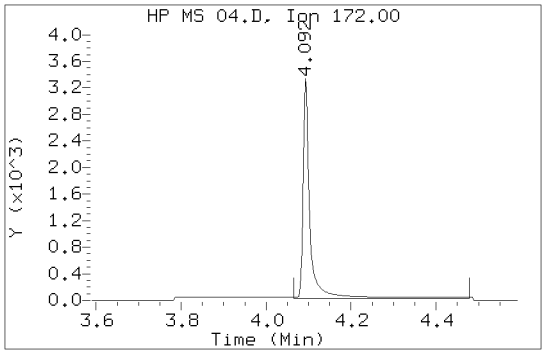
BEFORE

MASS
172
AREA
4718
HEIGHT
3338
21-Jun-2024
12:51
ALSHS
Server



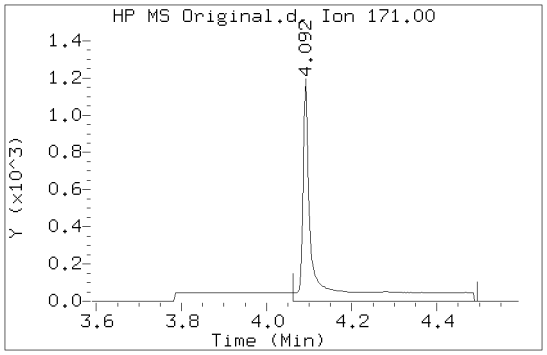
AFTER

MASS
172
AREA
3920
HEIGHT
3308
21-Jun-2024
13:02



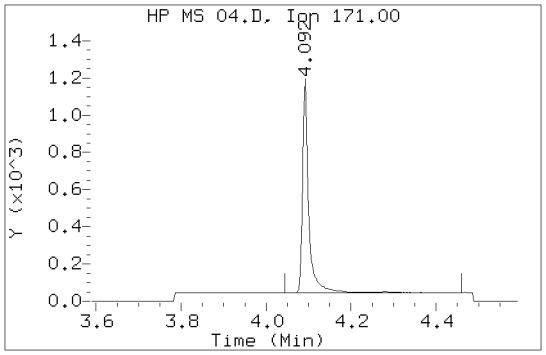
BEFORE

MASS
171
AREA
2347
HEIGHT
1195
21-Jun-2024
12:51
ALSHS
Server



AFTER

MASS
171
AREA
1184
HEIGHT
1150
21-Jun-2024
13:02



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D Page 1
Report Date: 22-Jun-2024 13:48

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D
Lab Smp Id: MBLK-213652
Inj Date : 21-JUN-2024 15:04
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-213652
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.113	2.113	(1.000)	2291	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.102	3.106	(1.000)	4515	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.814)	865	0.06382	0.06382(M)
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	2790	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	2730	0.06401	0.06401(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	5050	0.10000	
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	4649	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	6727	0.07103	0.07103(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	4760	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D

Date : 21-JUN-2024 15:04

Client ID:

Instrument: SV6.i

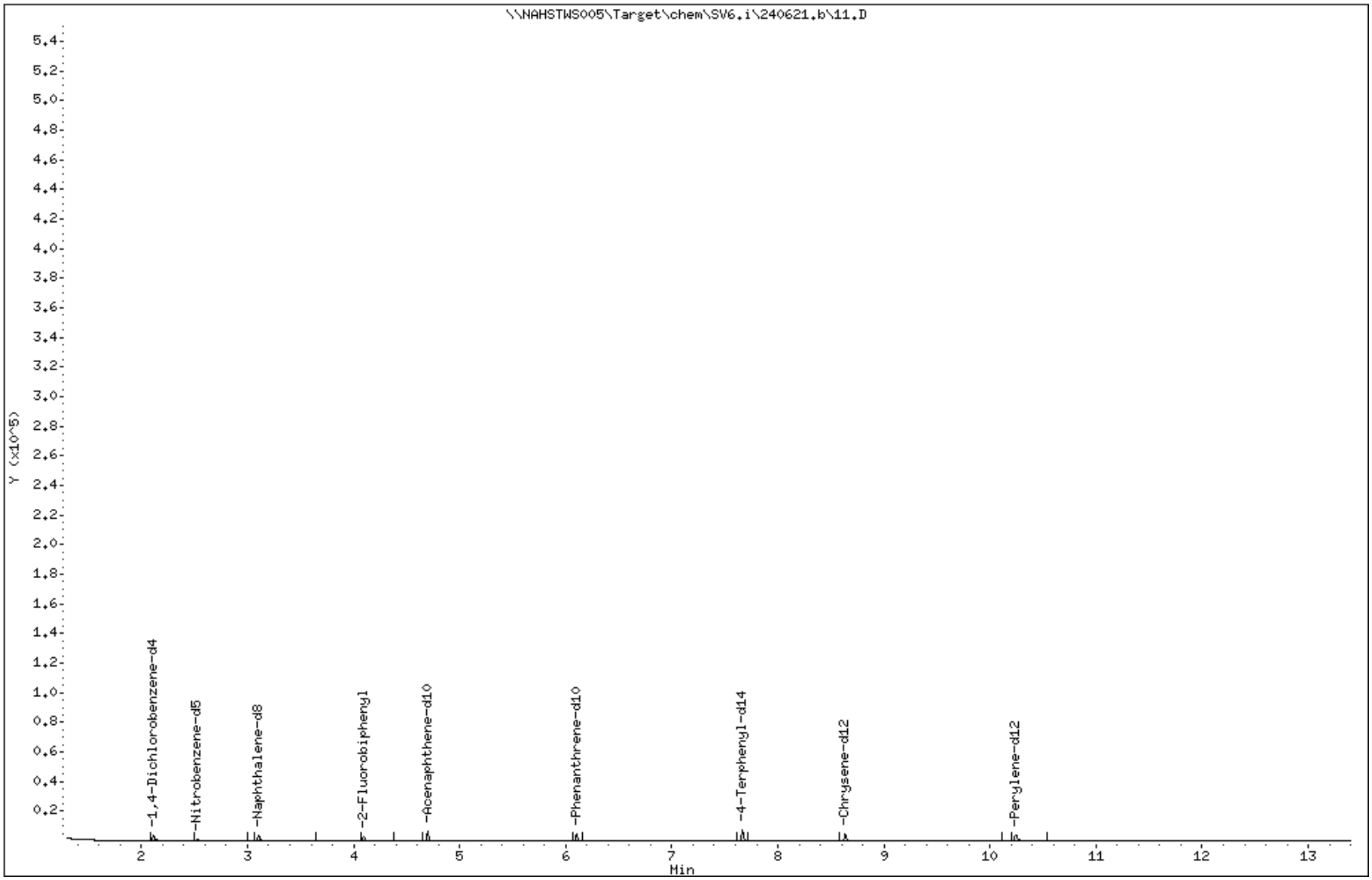
Sample Info: MBLK-213652

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

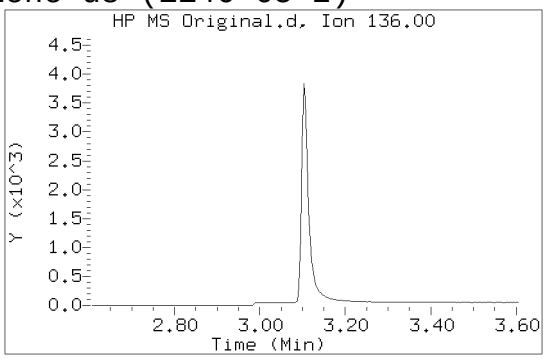


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D
Inj Date : 21-JUN-2024 15:04
InstruID : SV6.i
LabSampID : MBLK-213652

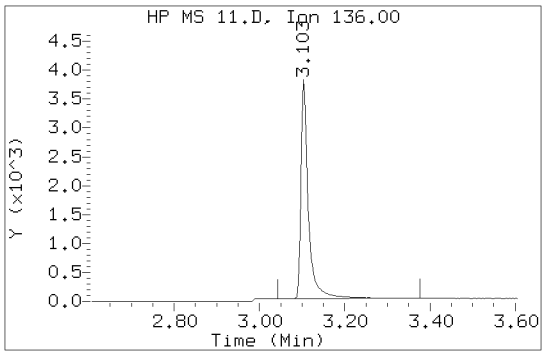
Naphthalene-d8 (1146-65-2)

Reason Code: MBA

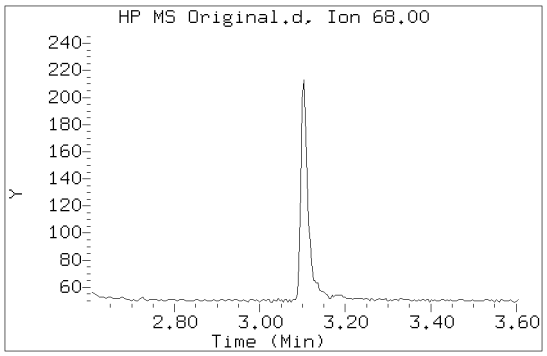
BEFORE
MASS
136
AREA
0
HEIGHT
0
21-Jun-2024
15:18
ALSHS
Server



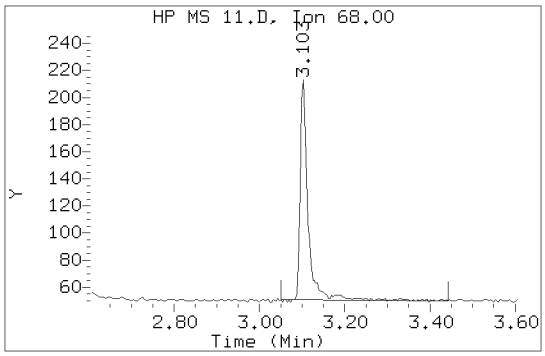
AFTER
MASS
136
AREA
4515
HEIGHT
3786
22-Jun-2024
13:48



BEFORE
MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
15:18
ALSHS
Server



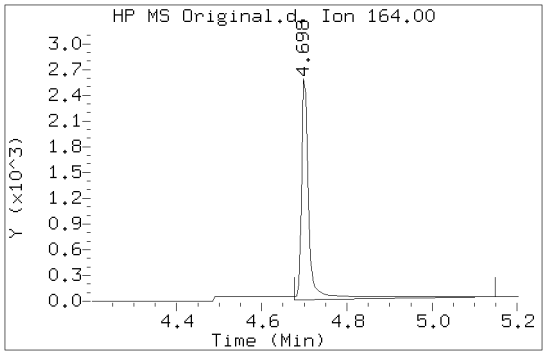
AFTER
MASS
68
AREA
204
HEIGHT
162
22-Jun-2024
13:48



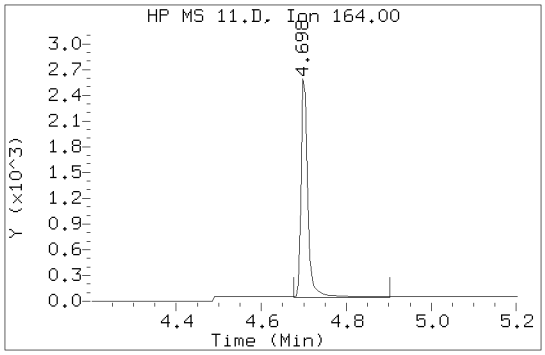
Acenaphthene-d10 (15067-26-2)

Reason Code:

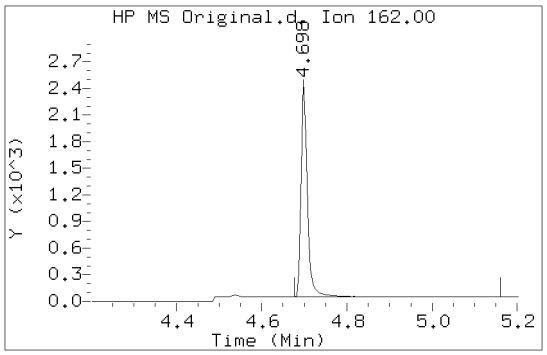
BEFORE
MASS
164
AREA
3262
HEIGHT
2575
21-Jun-2024
15:18
ALSHS
Server



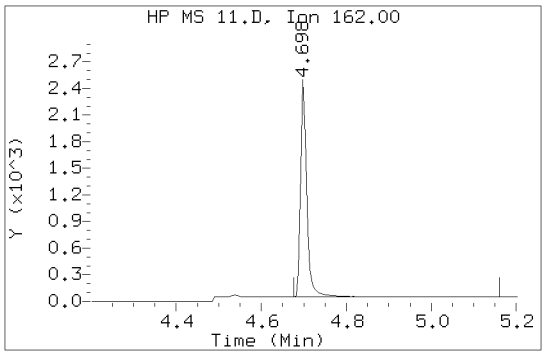
AFTER
MASS
164
AREA
2790
HEIGHT
2546
22-Jun-2024
13:48



BEFORE
MASS
162
AREA
2489
HEIGHT
2450
21-Jun-2024
15:18
ALSHS
Server



AFTER
MASS
162
AREA
2489
HEIGHT
2450
22-Jun-2024
13:48



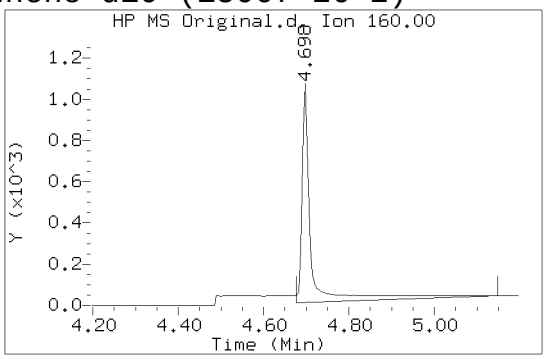
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D
Inj Date : 21-JUN-2024 15:04
InstruID : SV6.i
LabSampID : MBLK-213652

Acenaphthene-d10 (15067-26-2)

Reason Code:

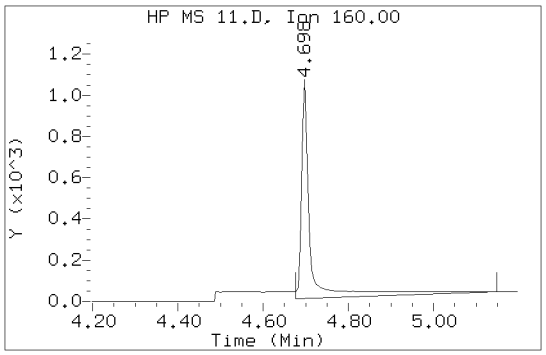
BEFORE

MASS
160
AREA
1535
HEIGHT
1061
21-Jun-2024
15:18
ALSHS
Server



AFTER

MASS
160
AREA
1535
HEIGHT
1061
22-Jun-2024
13:48

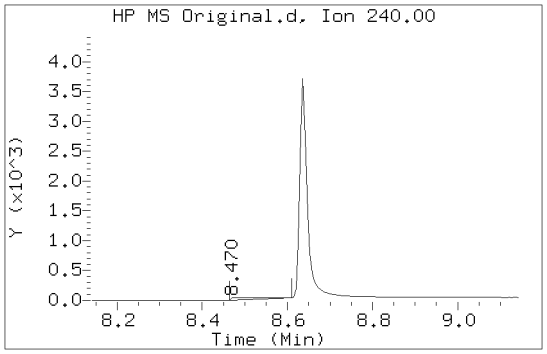


Chrysene-d12 (1719-03-5)

Reason Code:

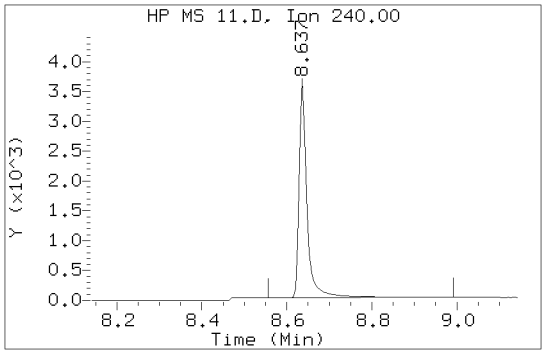
BEFORE

MASS
240
AREA
191
HEIGHT
45
21-Jun-2024
15:18
ALSHS
Server



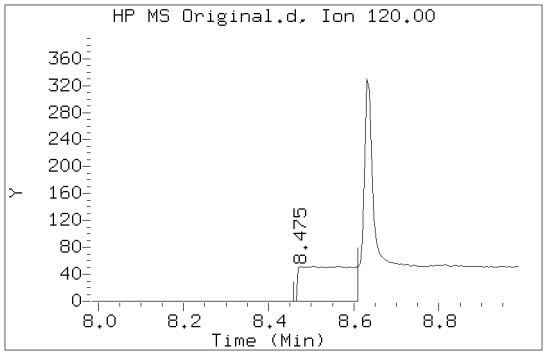
AFTER

MASS
240
AREA
4649
HEIGHT
3668
22-Jun-2024
13:48



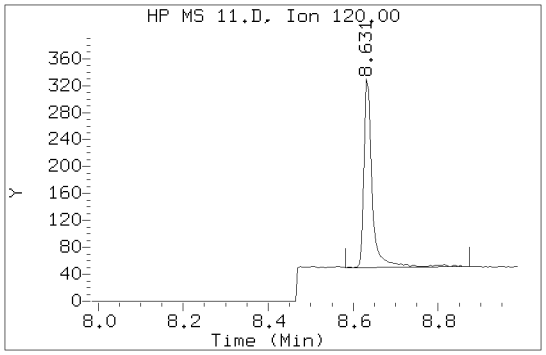
BEFORE

MASS
120
AREA
444
HEIGHT
52
21-Jun-2024
15:18
ALSHS
Server



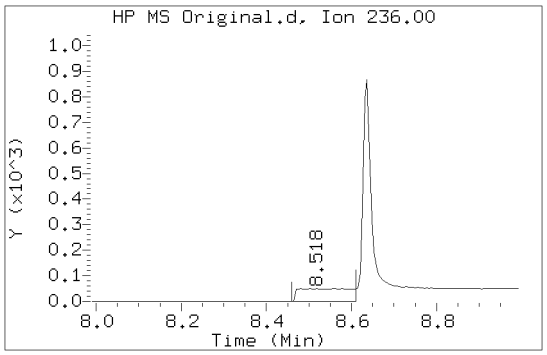
AFTER

MASS
120
AREA
371
HEIGHT
279
22-Jun-2024
13:48



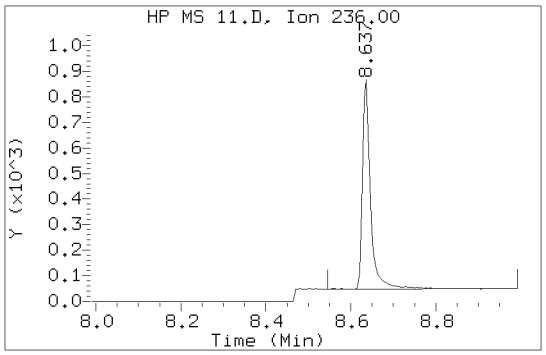
BEFORE

MASS
236
AREA
419
HEIGHT
50
21-Jun-2024
15:18
ALSHS
Server



AFTER

MASS
236
AREA
1082
HEIGHT
818
22-Jun-2024
13:48

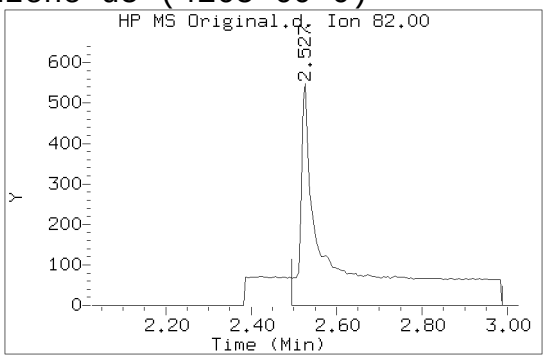


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D
Inj Date : 21-JUN-2024 15:04
InstruID : SV6.i
LabSampID : MBLK-213652

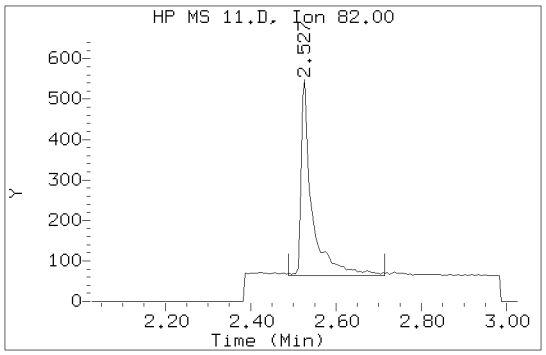
Nitrobenzene-d5 (4165-60-0)

Reason Code:

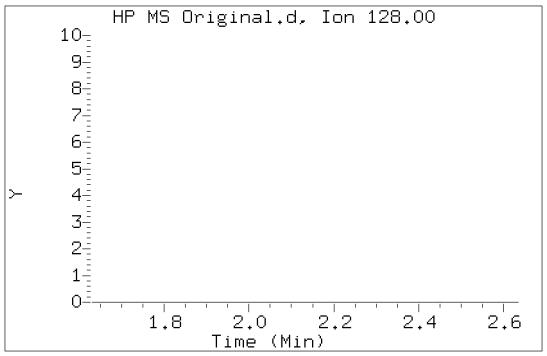
BEFORE
MASS
82
AREA
2792
HEIGHT
548
21-Jun-2024
15:18
ALSHS
Server



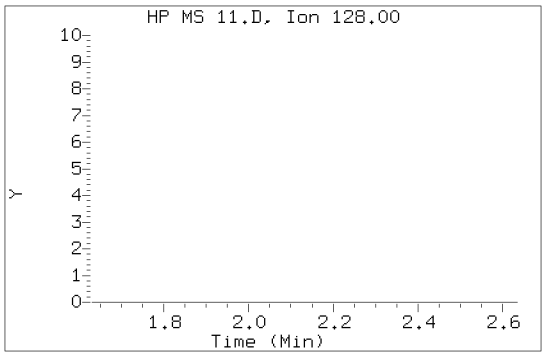
AFTER
MASS
82
AREA
865
HEIGHT
484
22-Jun-2024
13:48



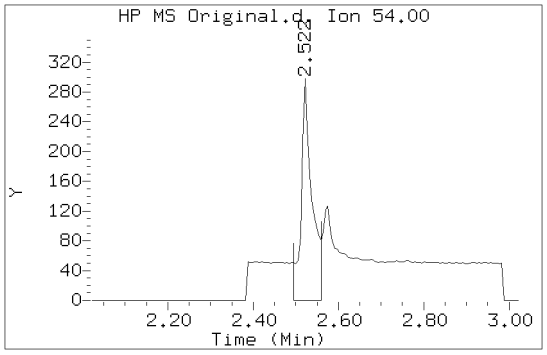
BEFORE
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
15:18
ALSHS
Server



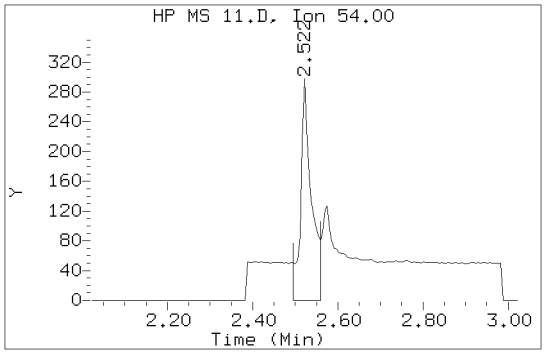
AFTER
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
13:48



BEFORE
MASS
54
AREA
535
HEIGHT
298
21-Jun-2024
15:18
ALSHS
Server



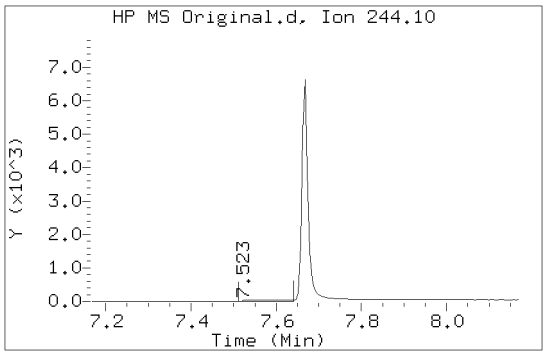
AFTER
MASS
54
AREA
535
HEIGHT
298
22-Jun-2024
13:48



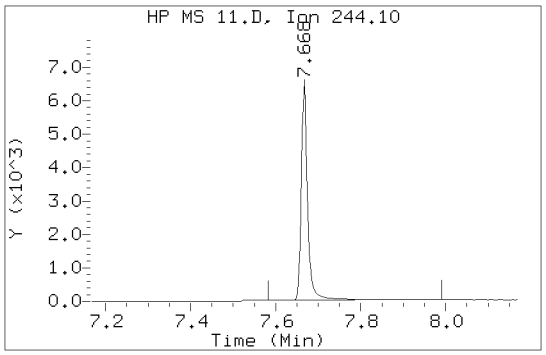
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
336
HEIGHT
46
21-Jun-2024
15:18
ALSHS
Server



AFTER
MASS
244.1
AREA
6727
HEIGHT
6584
22-Jun-2024
13:48



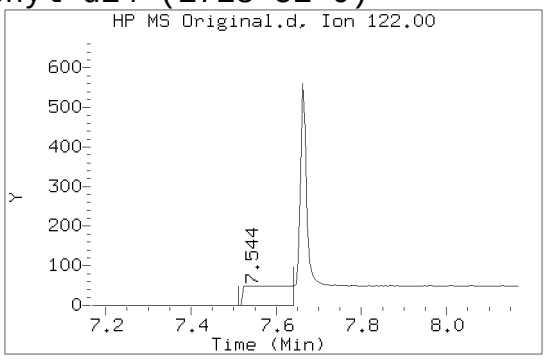
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\11.D
Inj Date : 21-JUN-2024 15:04
InstruID : SV6.i
LabSampID : MBLK-213652

4-Terphenyl-d14 (1718-51-0)

Reason Code:

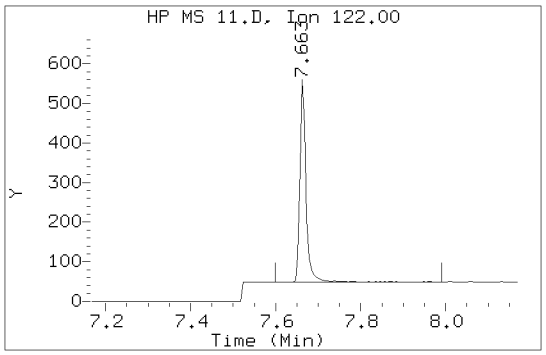
BEFORE

MASS
122
AREA
358
HEIGHT
49
21-Jun-2024
15:18
ALSHS
Server



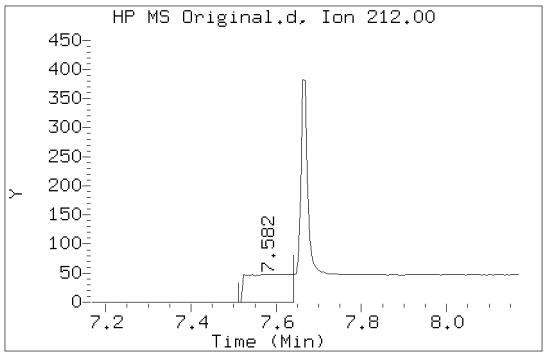
AFTER

MASS
122
AREA
522
HEIGHT
511
22-Jun-2024
13:48



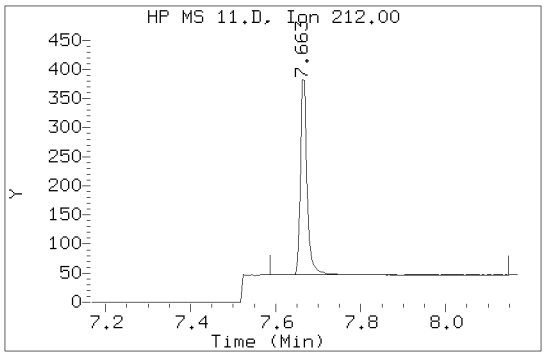
BEFORE

MASS
212
AREA
347
HEIGHT
48
21-Jun-2024
15:18
ALSHS
Server



AFTER

MASS
212
AREA
390
HEIGHT
335
22-Jun-2024
13:48

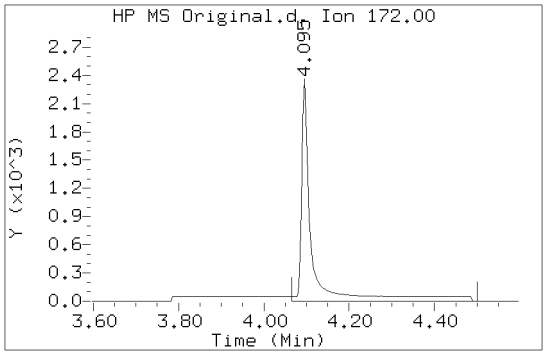


2-Fluorobiphenyl (321-60-8)

Reason Code:

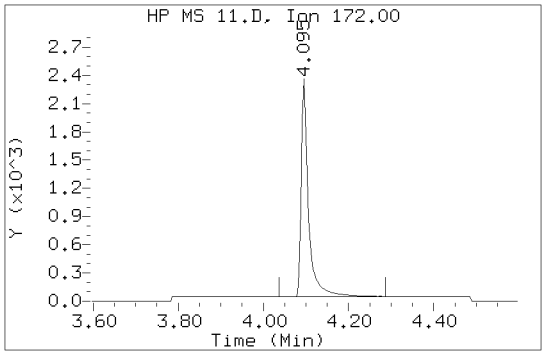
BEFORE

MASS
172
AREA
3987
HEIGHT
2363
21-Jun-2024
15:18
ALSHS
Server



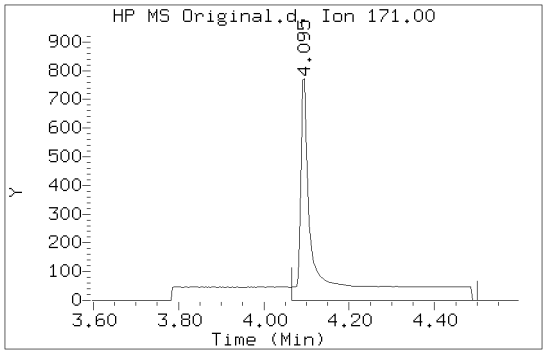
AFTER

MASS
172
AREA
2730
HEIGHT
2316
22-Jun-2024
13:48



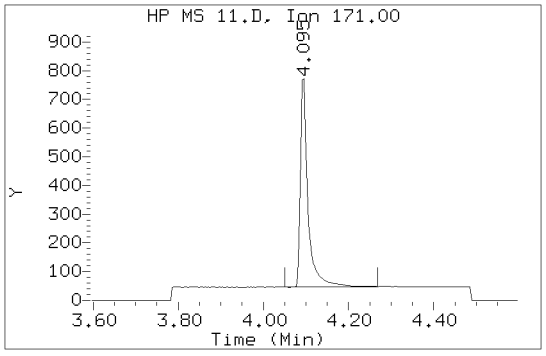
BEFORE

MASS
171
AREA
2099
HEIGHT
772
21-Jun-2024
15:18
ALSHS
Server



AFTER

MASS
171
AREA
898
HEIGHT
725
22-Jun-2024
13:48



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D
Lab Smp Id: LCS1-213652
Inj Date : 21-JUN-2024 15:21
Operator : LG Inst ID: SV6.i
Smp Info : LCS1-213652
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.119	2.113	(1.000)	2613	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.103	3.106	(1.000)	5570	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.814)	1112	0.06650	0.06650(M)
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	3363	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	3786	0.07365	0.07364(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	6471	0.10000	(M)
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	5854	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	8205	0.06880	0.06880(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	5878	0.10000	
1 1,4-Dioxane	58	0.868	0.842	(0.410)	421	0.07522	0.07522

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D

Date : 21-JUN-2024 15:21

Client ID:

Instrument: SV6.i

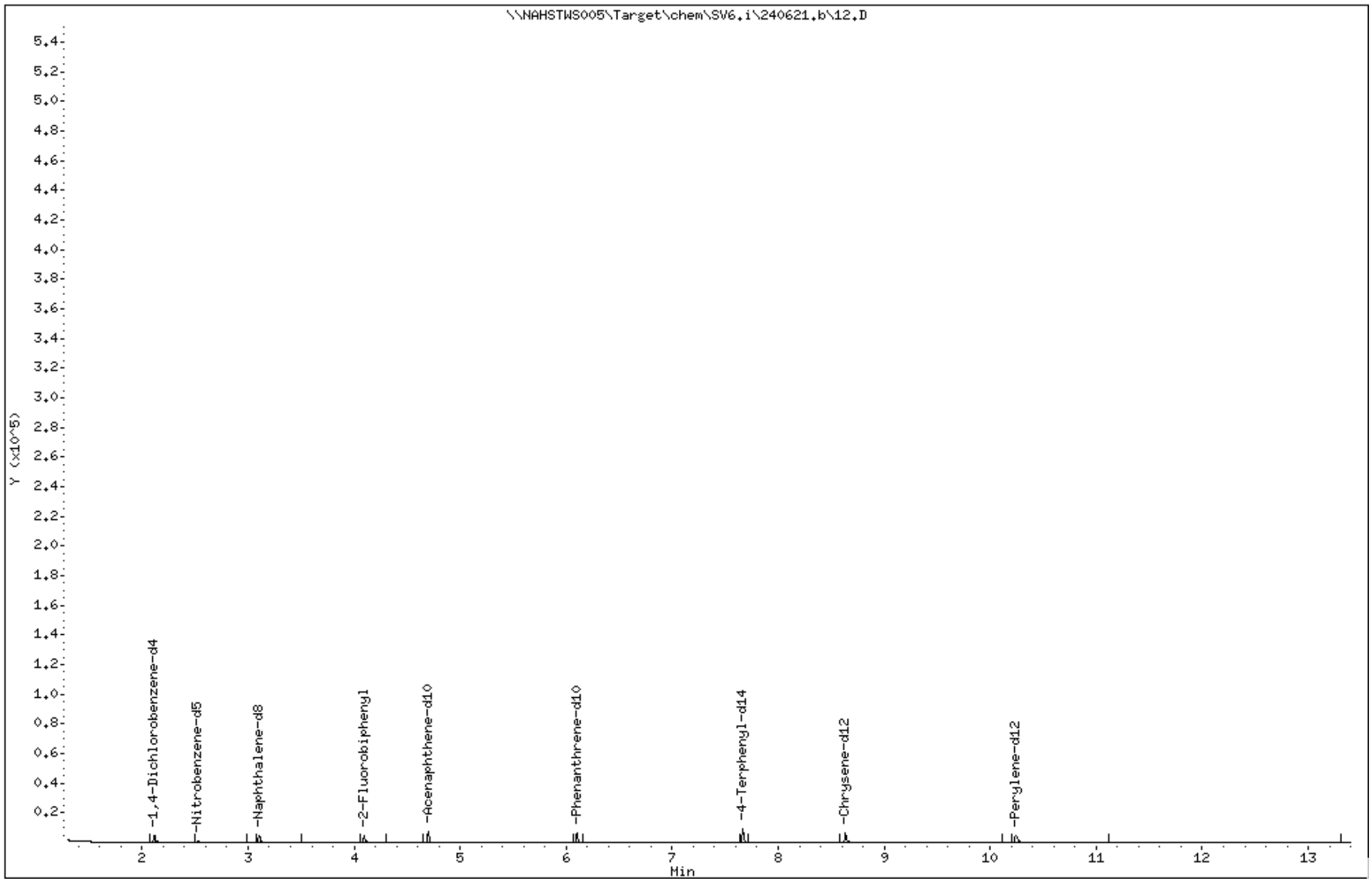
Sample Info: LCS1-213652

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D

Date : 21-JUN-2024 15:21

Client ID:

Instrument: SV6.i

Sample Info: LCS1-213652

Purge Volume: 1000.0

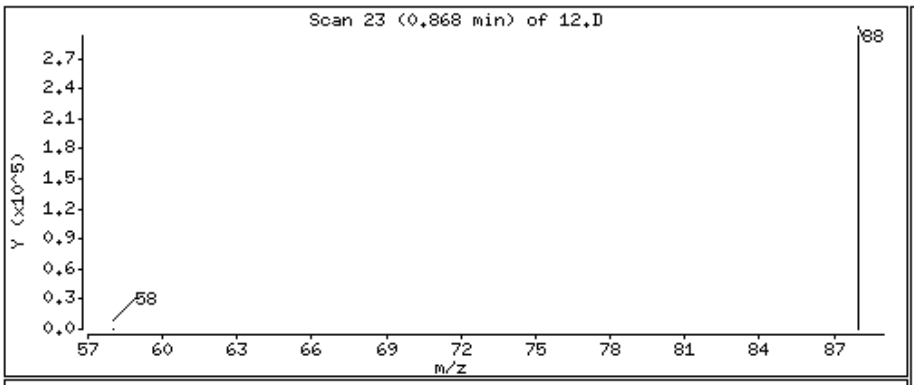
Operator: LG

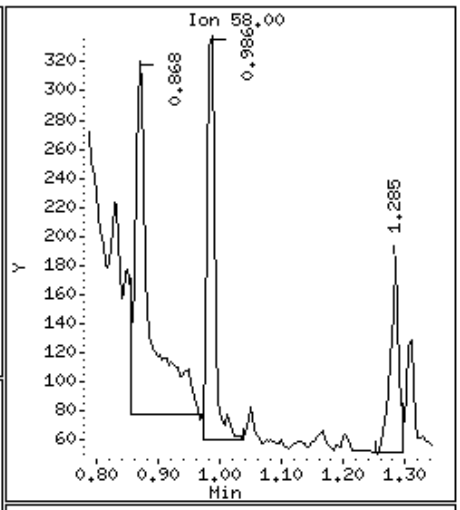
Column phase: RTX-5SIL MS

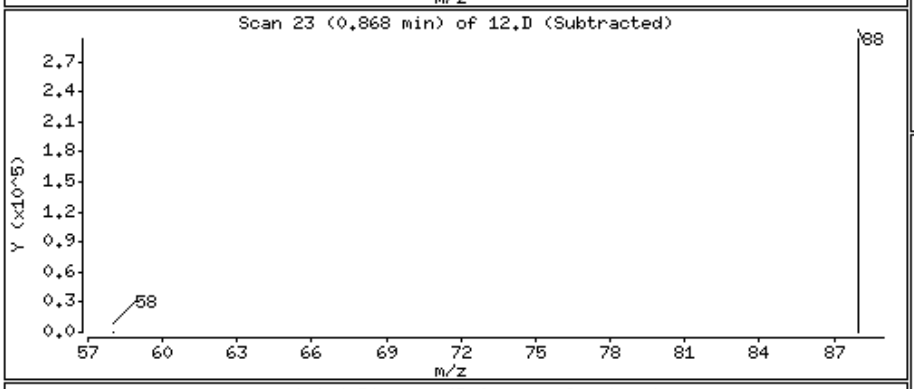
Column diameter: 0.28

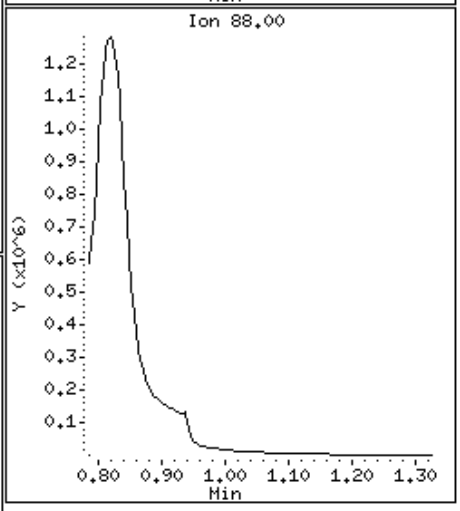
1 1,4-Dioxane

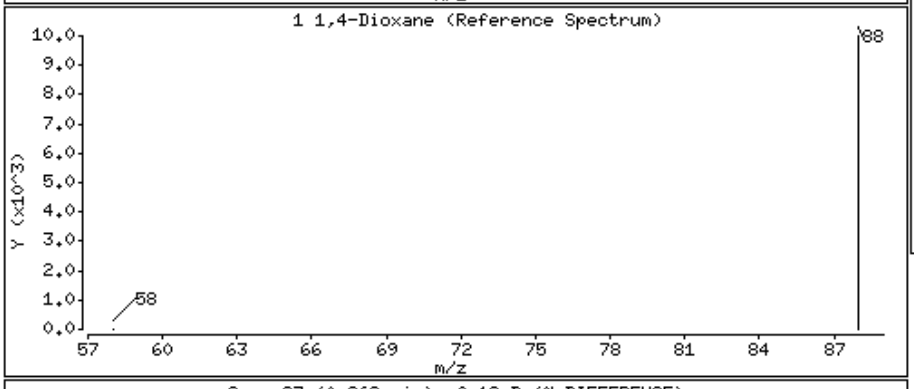
Concentration: 0.07522 ug/L

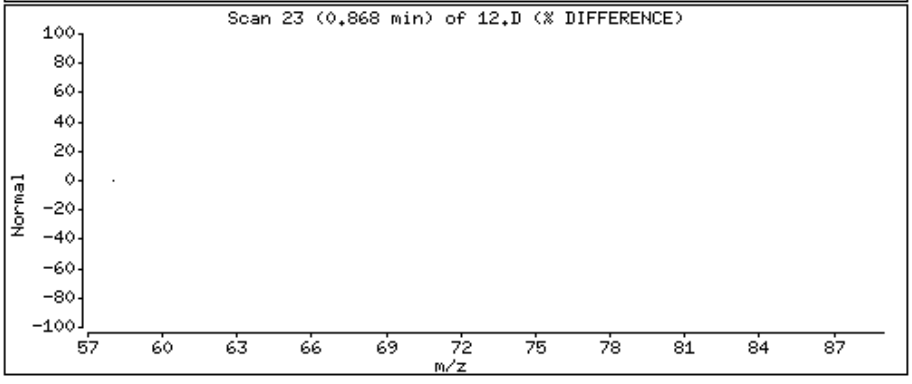










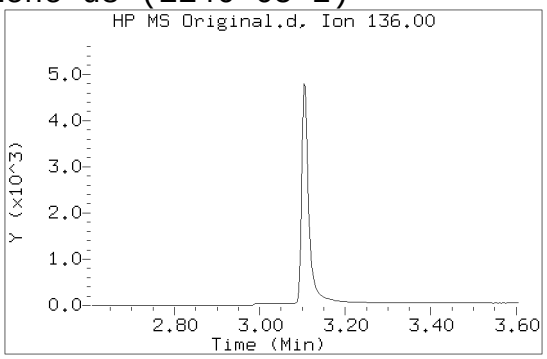


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D
Inj Date : 21-JUN-2024 15:21
InstruID : SV6.i
LabSampID : LCS1-213652

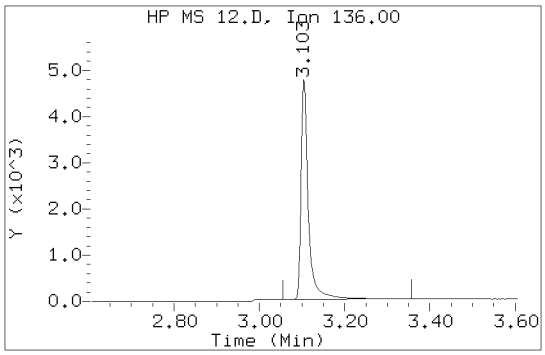
Naphthalene-d8 (1146-65-2)

Reason Code:

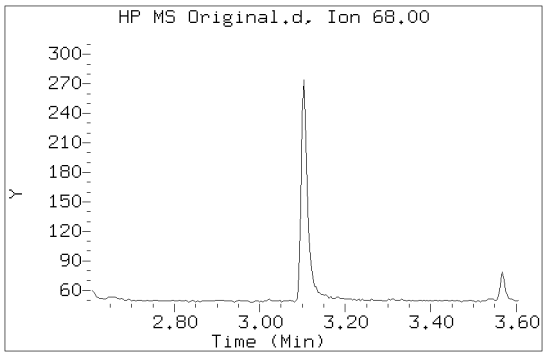
BEFORE
MASS
136
AREA
0
HEIGHT
0
21-Jun-2024
15:37
ALSHS
Server



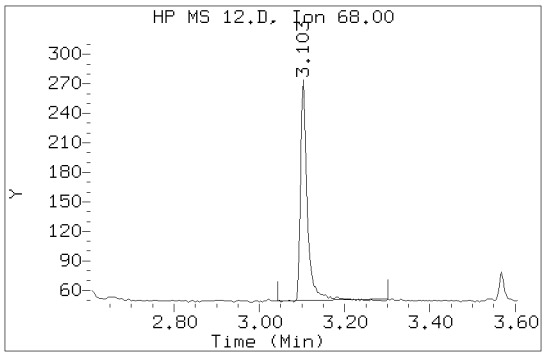
AFTER
MASS
136
AREA
5570
HEIGHT
4751
22-Jun-2024
13:49



BEFORE
MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
15:37
ALSHS
Server



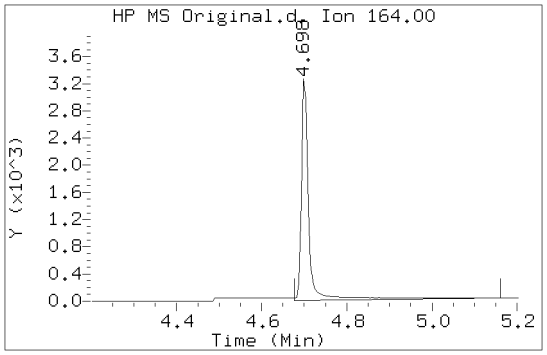
AFTER
MASS
68
AREA
241
HEIGHT
224
22-Jun-2024
13:49



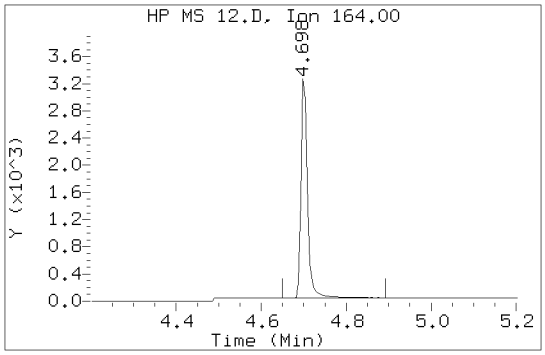
Acenaphthene-d10 (15067-26-2)

Reason Code:

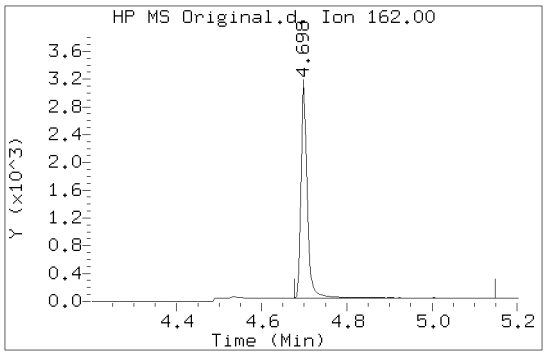
BEFORE
MASS
164
AREA
3898
HEIGHT
3254
21-Jun-2024
15:37
ALSHS
Server



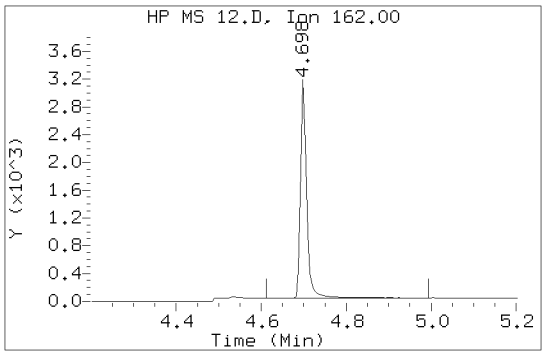
AFTER
MASS
164
AREA
3363
HEIGHT
3221
22-Jun-2024
13:49



BEFORE
MASS
162
AREA
3102
HEIGHT
3143
21-Jun-2024
15:37
ALSHS
Server



AFTER
MASS
162
AREA
3098
HEIGHT
3143
22-Jun-2024
13:49



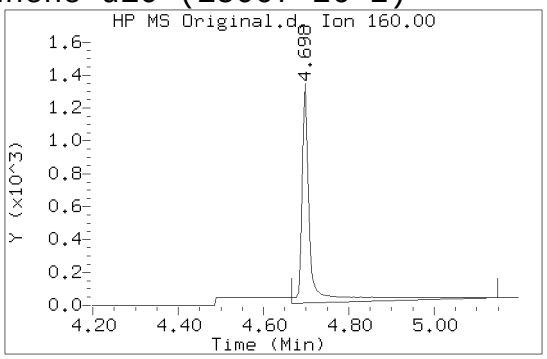
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D
Inj Date : 21-JUN-2024 15:21
InstruID : SV6.i
LabSampID : LCS1-213652

Acenaphthene-d10 (15067-26-2)

Reason Code:

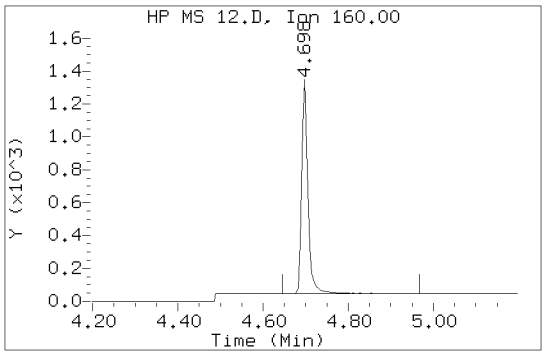
BEFORE

MASS
160
AREA
1831
HEIGHT
1333
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
160
AREA
1328
HEIGHT
1302
22-Jun-2024
13:49

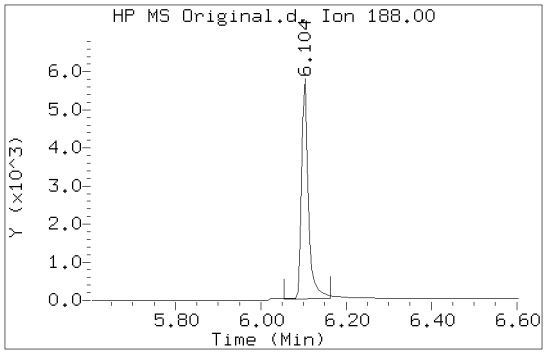


Phenanthrene-d10 (1517-22-2)

Reason Code:

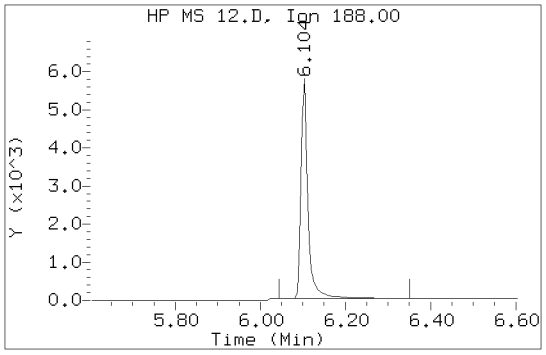
BEFORE

MASS
188
AREA
6333
HEIGHT
5775
21-Jun-2024
15:37
ALSHS
Server



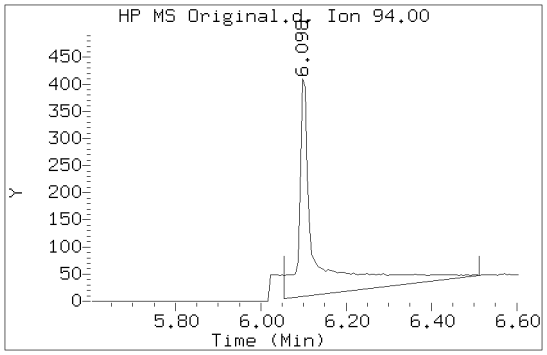
AFTER

MASS
188
AREA
6471
HEIGHT
5770
22-Jun-2024
13:49



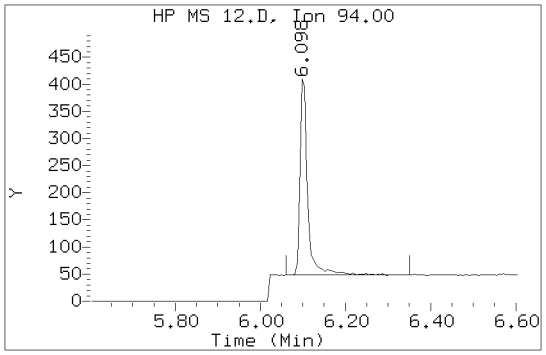
BEFORE

MASS
94
AREA
1069
HEIGHT
401
21-Jun-2024
15:37
ALSHS
Server



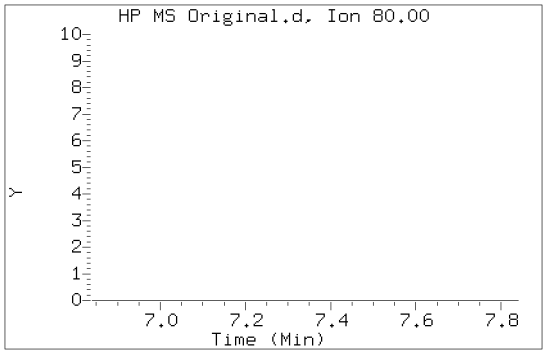
AFTER

MASS
94
AREA
433
HEIGHT
361
22-Jun-2024
13:49



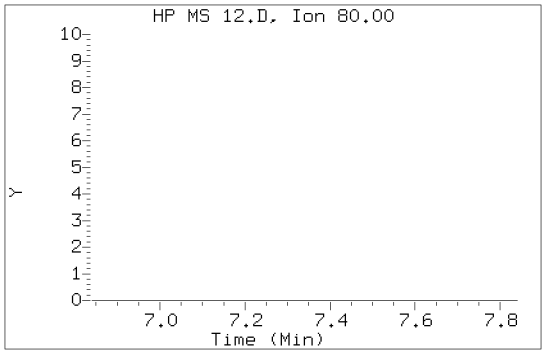
BEFORE

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
13:49

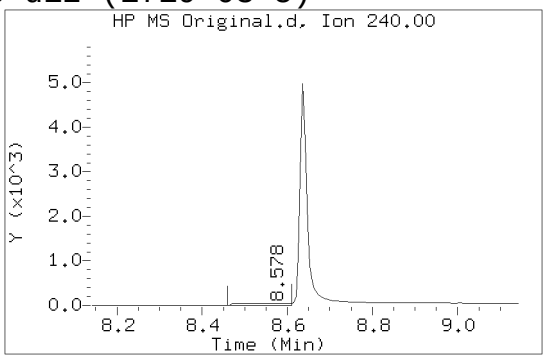


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D
Inj Date : 21-JUN-2024 15:21
InstruID : SV6.i
LabSampID : LCS1-213652

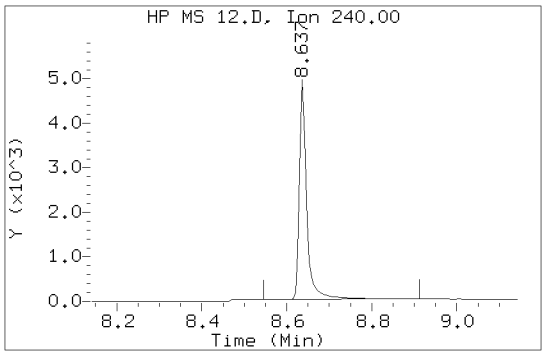
Chrysene-d12 (1719-03-5)

Reason Code:

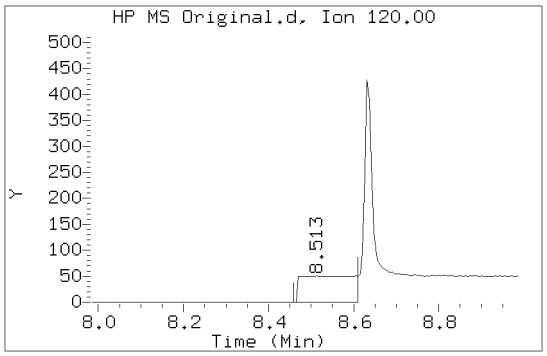
BEFORE
MASS
240
AREA
401
HEIGHT
48
21-Jun-2024
15:37
ALSHS
Server



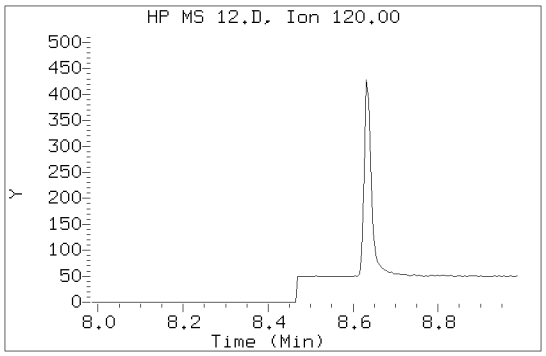
AFTER
MASS
240
AREA
5854
HEIGHT
4928
22-Jun-2024
13:49



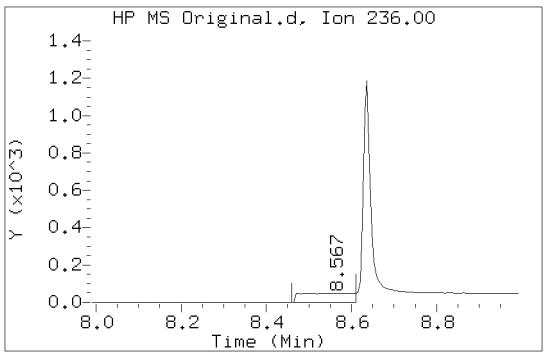
BEFORE
MASS
120
AREA
433
HEIGHT
51
21-Jun-2024
15:37
ALSHS
Server



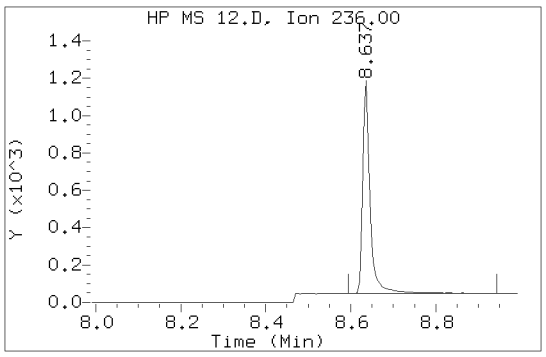
AFTER
MASS
120
AREA
462
HEIGHT
378
22-Jun-2024
13:49



BEFORE
MASS
236
AREA
411
HEIGHT
49
21-Jun-2024
15:37
ALSHS
Server



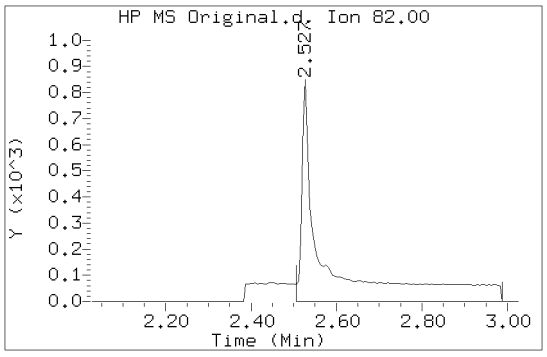
AFTER
MASS
236
AREA
1386
HEIGHT
1140
22-Jun-2024
13:49



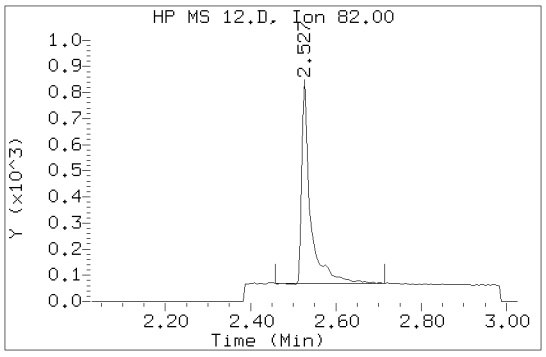
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
3038
HEIGHT
849
21-Jun-2024
15:37
ALSHS
Server



AFTER
MASS
82
AREA
1112
HEIGHT
780
22-Jun-2024
13:49



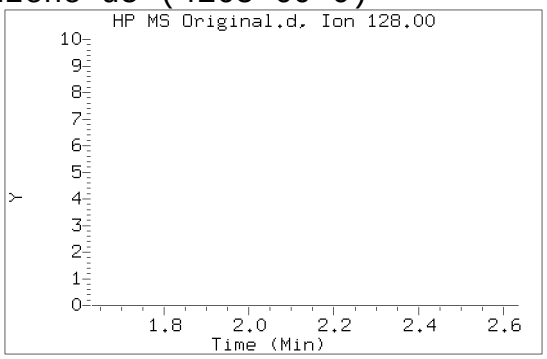
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D
Inj Date : 21-JUN-2024 15:21
InstruID : SV6.i
LabSampID : LCS1-213652

Nitrobenzene-d5 (4165-60-0)

Reason Code:

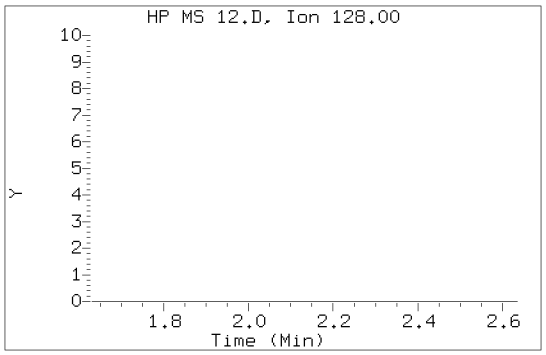
BEFORE

MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
15:37
ALSHS
Server



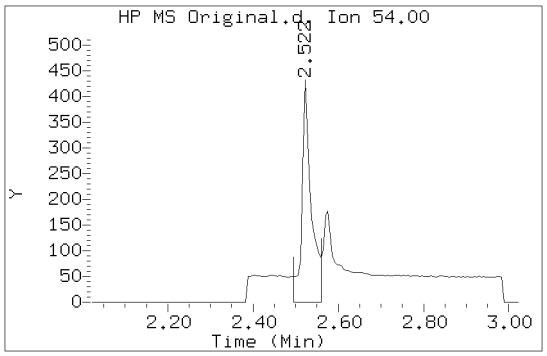
AFTER

MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
13:49



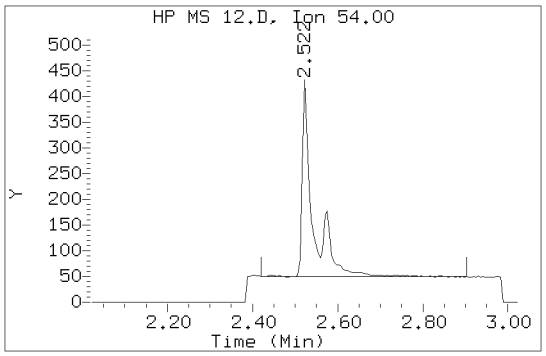
BEFORE

MASS
54
AREA
669
HEIGHT
432
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
54
AREA
670
HEIGHT
382
22-Jun-2024
13:49

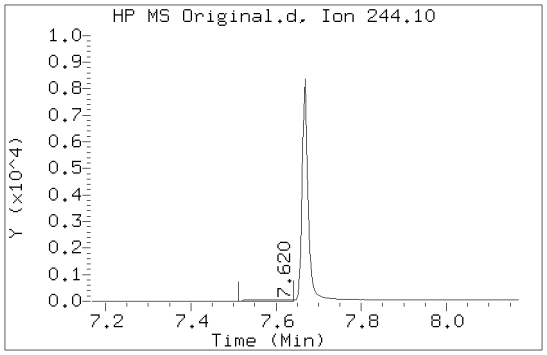


4-Terphenyl-d14 (1718-51-0)

Reason Code:

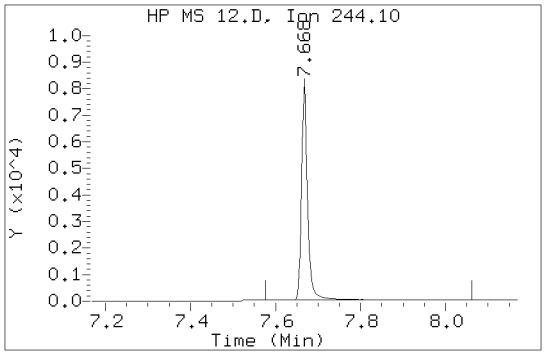
BEFORE

MASS
244.1
AREA
334
HEIGHT
46
21-Jun-2024
15:37
ALSHS
Server



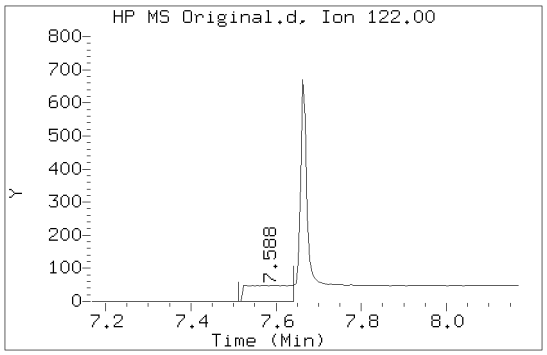
AFTER

MASS
244.1
AREA
8205
HEIGHT
8321
22-Jun-2024
13:49



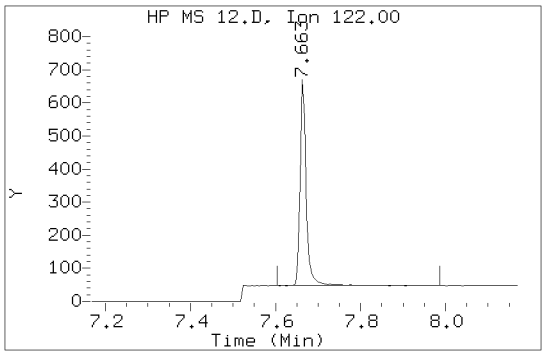
BEFORE

MASS
122
AREA
354
HEIGHT
49
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
122
AREA
628
HEIGHT
622
22-Jun-2024
13:49



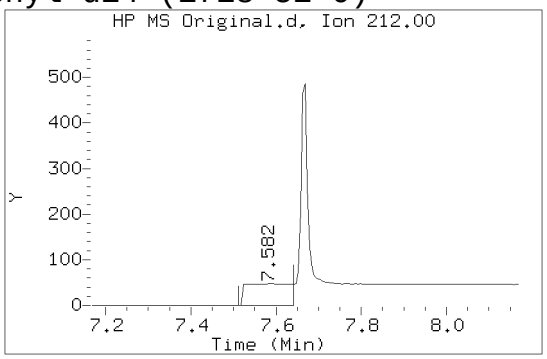
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\12.D
Inj Date : 21-JUN-2024 15:21
InstruID : SV6.i
LabSampID : LCS1-213652

4-Terphenyl-d14 (1718-51-0)

Reason Code:

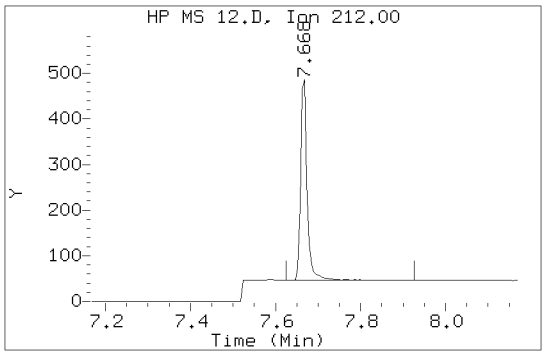
BEFORE

MASS
212
AREA
347
HEIGHT
48
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
212
AREA
472
HEIGHT
439
22-Jun-2024
13:49

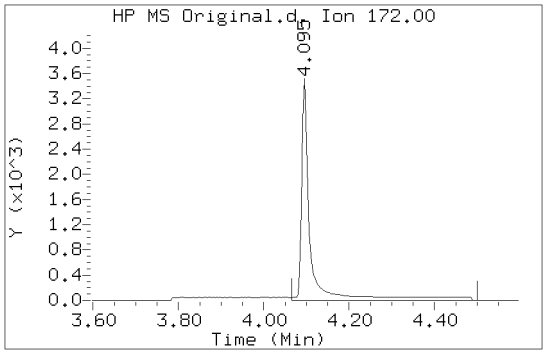


2-Fluorobiphenyl (321-60-8)

Reason Code:

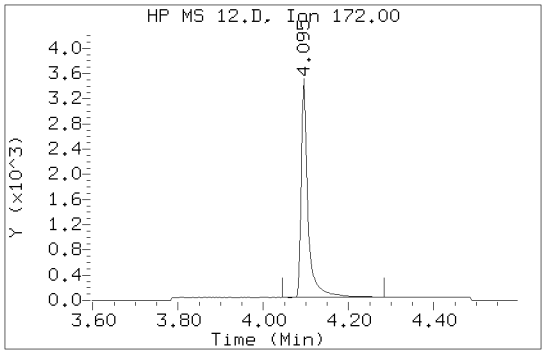
BEFORE

MASS
172
AREA
5080
HEIGHT
3518
21-Jun-2024
15:37
ALSHS
Server



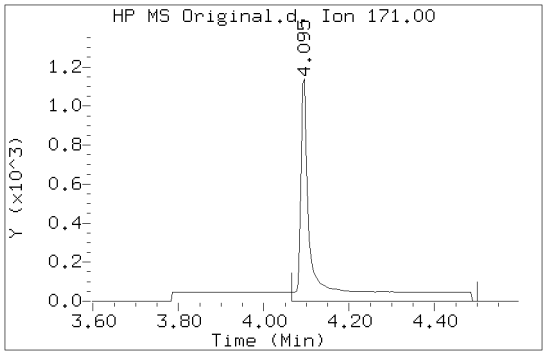
AFTER

MASS
172
AREA
3786
HEIGHT
3470
22-Jun-2024
13:49



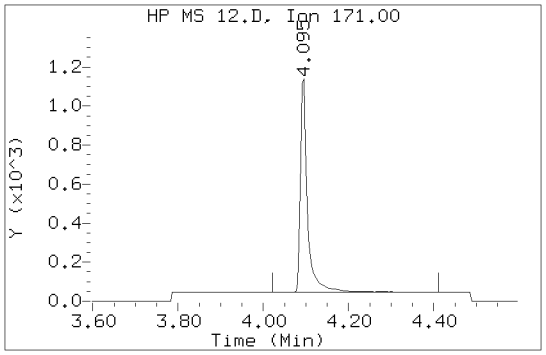
BEFORE

MASS
171
AREA
2450
HEIGHT
1139
21-Jun-2024
15:37
ALSHS
Server



AFTER

MASS
171
AREA
1261
HEIGHT
1093
22-Jun-2024
13:49



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\13.D Page 1
Report Date: 22-Jun-2024 13:50

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\13.D
Lab Smp Id: LCSD1-213652
Inj Date : 21-JUN-2024 15:39
Operator : LG Inst ID: SV6.i
Smp Info : LCSD1-213652
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.113	2.113	(1.000)	2300	0.10000		(aQ)
* 45 Naphthalene-d8	136	3.103	3.106	(1.000)	4598	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.814)	962	0.06969	0.06969	(M)
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	2809	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	3218	0.07494	0.07494	(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	5391	0.10000		(M)
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	4781	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	7707	0.07913	0.07913	(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	4656	0.10000		
1 1,4-Dioxane	58	0.856	0.842	(0.405)	437	0.08870	0.08870	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\13.D

Page 1

Date : 21-JUN-2024 15:39

Client ID:

Instrument: SV6.i

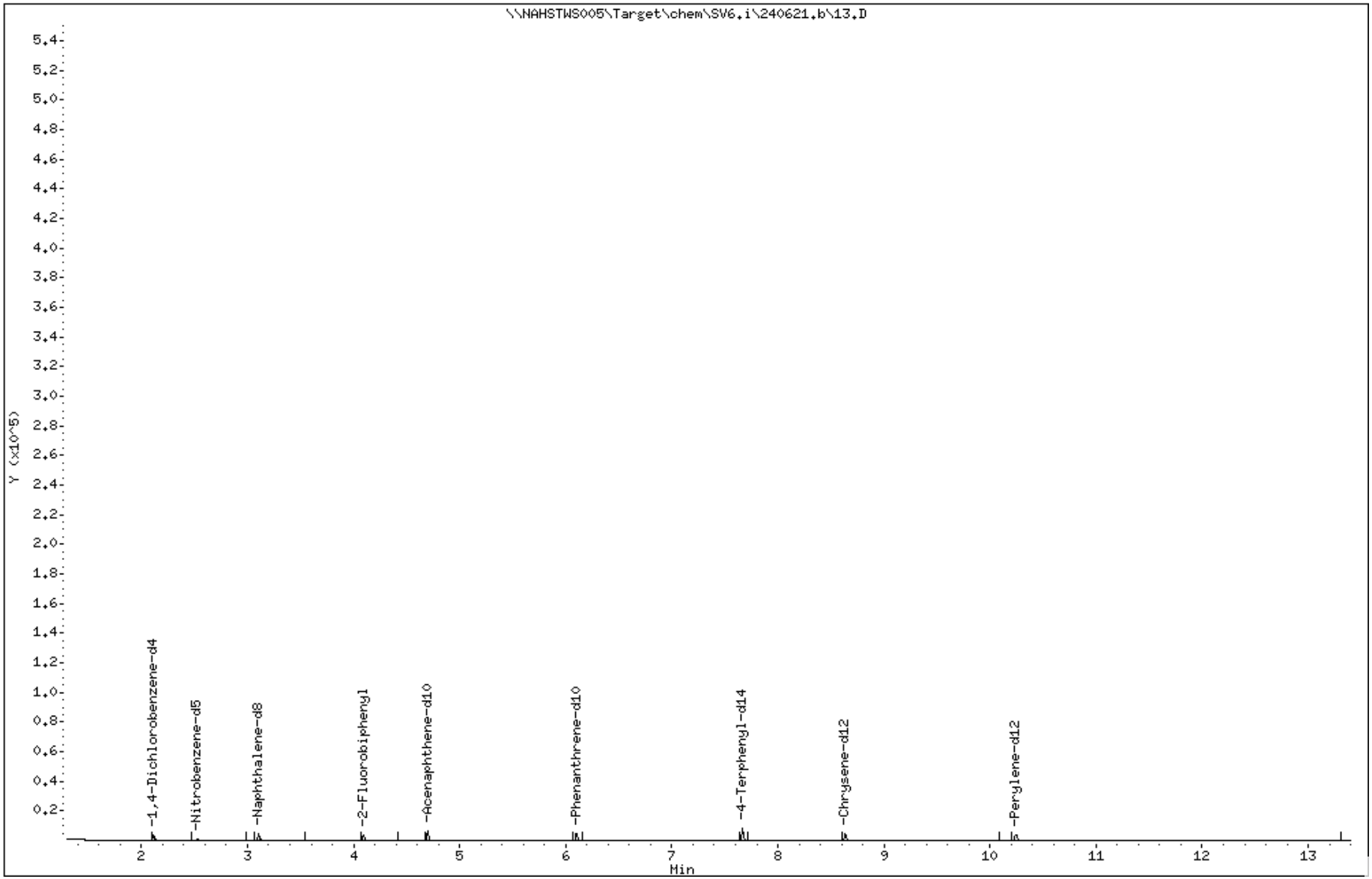
Sample Info: LCSD1-213652

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\13.D

Date : 21-JUN-2024 15:39

Client ID:

Instrument: SV6.i

Sample Info: LCSD1-213652

Purge Volume: 1000.0

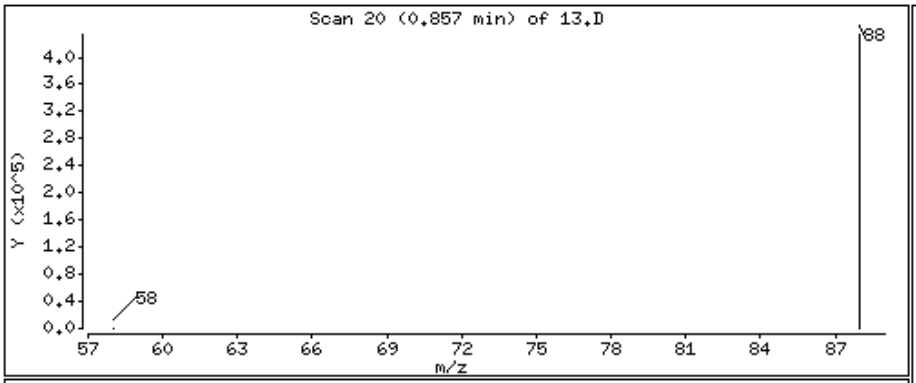
Operator: LG

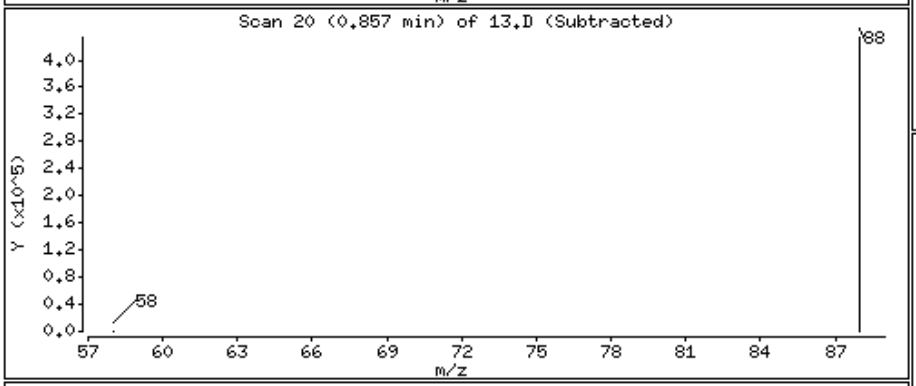
Column phase: RTX-5SIL MS

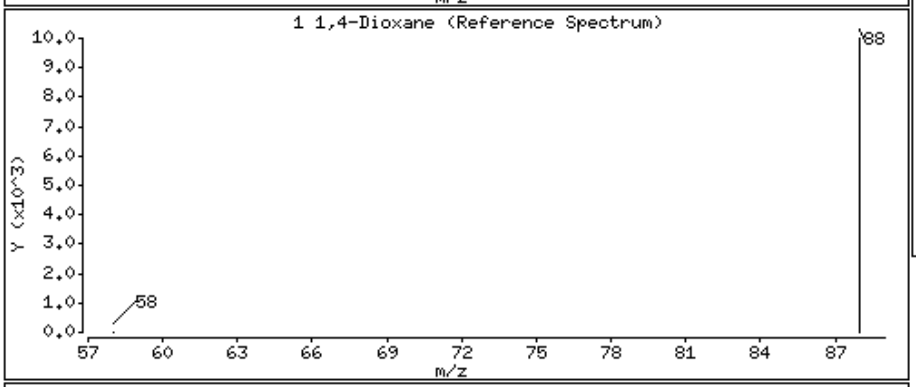
Column diameter: 0.28

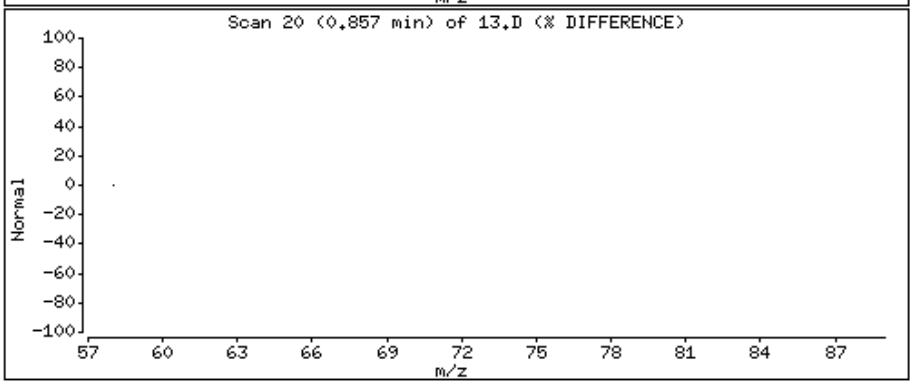
1 1,4-Dioxane

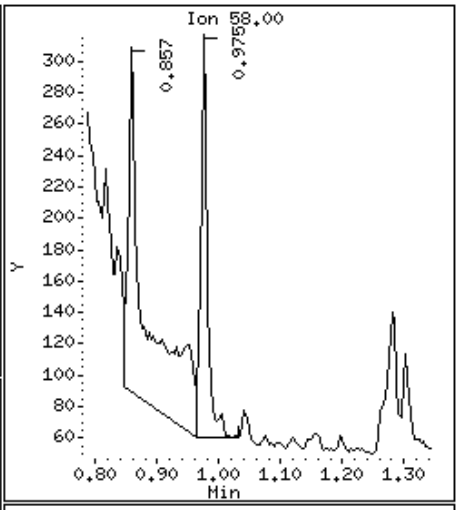
Concentration: 0.08870 ug/L

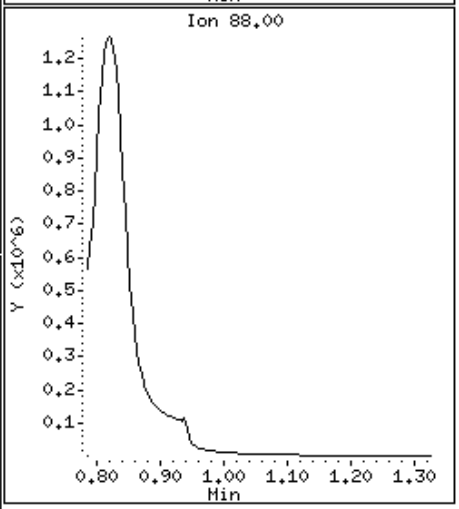










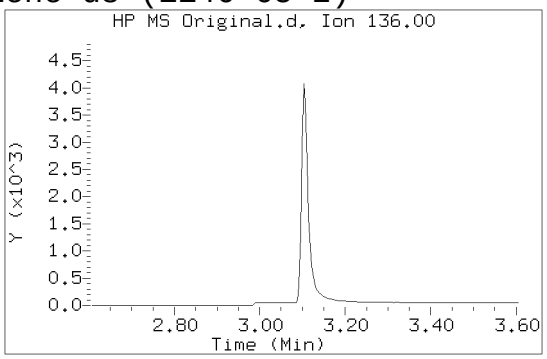


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Inj Date : 21-JUN-2024 15:39
InstruID : SV6.i
LabSampID : LCSD1-213652

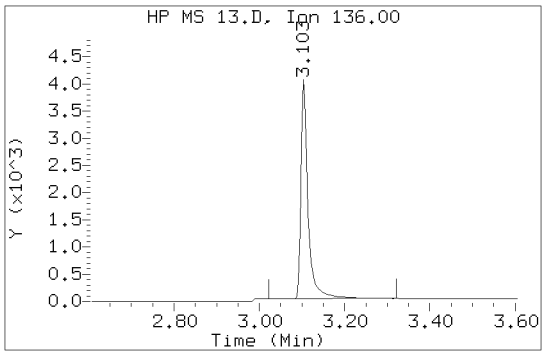
Naphthalene-d8 (1146-65-2)

Reason Code: MBA

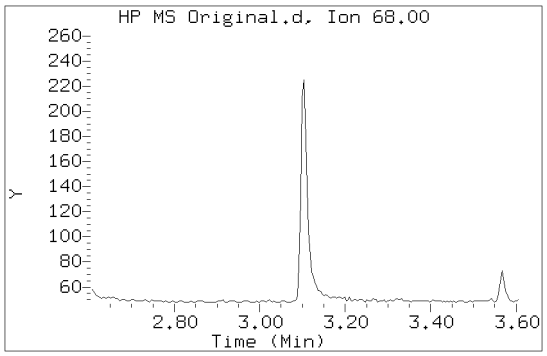
BEFORE
MASS
136
AREA
0
HEIGHT
0
21-Jun-2024
15:57
ALSHS
Server



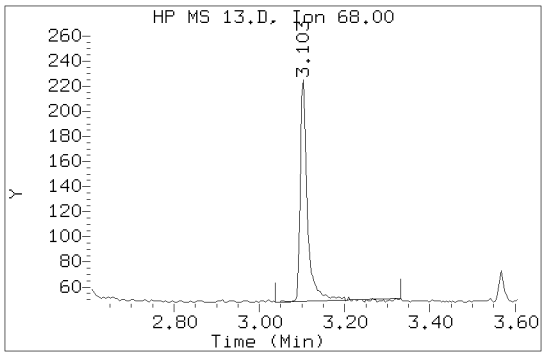
AFTER
MASS
136
AREA
4598
HEIGHT
4028
22-Jun-2024
13:50



BEFORE
MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
15:57
ALSHS
Server



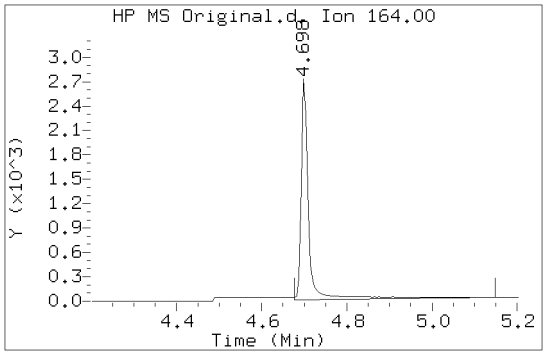
AFTER
MASS
68
AREA
197
HEIGHT
176
22-Jun-2024
13:50



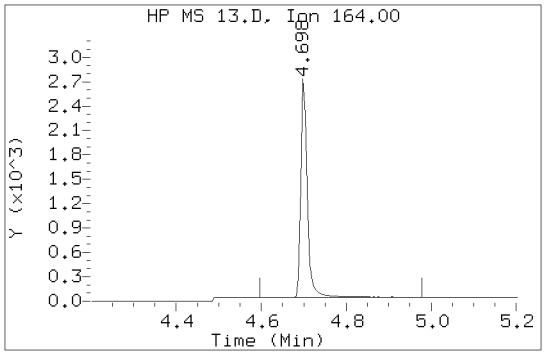
Acenaphthene-d10 (15067-26-2)

Reason Code:

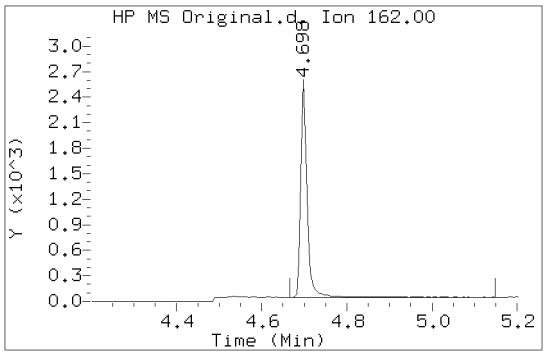
BEFORE
MASS
164
AREA
3328
HEIGHT
2719
21-Jun-2024
15:57
ALSHS
Server



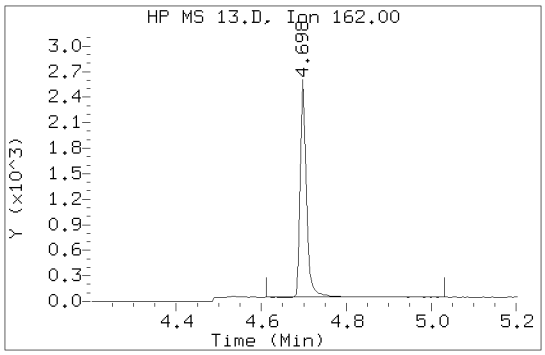
AFTER
MASS
164
AREA
2809
HEIGHT
2686
22-Jun-2024
13:50



BEFORE
MASS
162
AREA
2604
HEIGHT
2557
21-Jun-2024
15:57
ALSHS
Server



AFTER
MASS
162
AREA
2577
HEIGHT
2556
22-Jun-2024
13:50



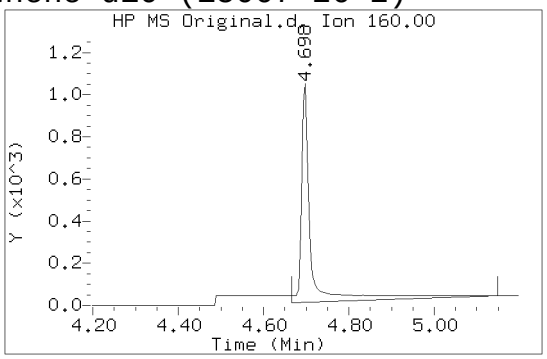
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Inj Date : 21-JUN-2024 15:39
InstruID : SV6.i
LabSampID : LCSD1-213652

Acenaphthene-d10 (15067-26-2)

Reason Code:

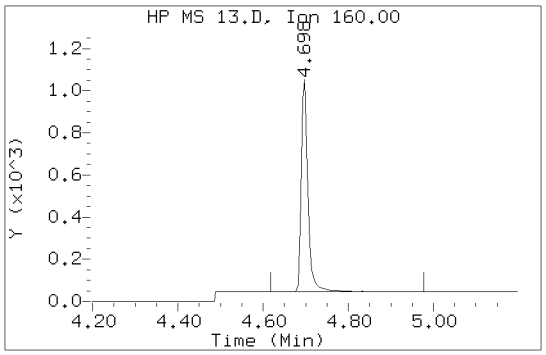
BEFORE

MASS
160
AREA
1605
HEIGHT
1037
21-Jun-2024
15:57
ALSHS
Server



AFTER

MASS
160
AREA
1102
HEIGHT
1006
22-Jun-2024
13:50

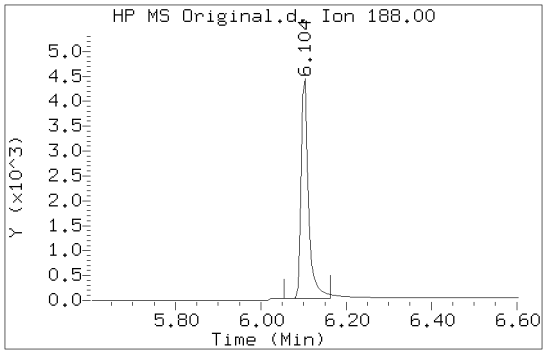


Phenanthrene-d10 (1517-22-2)

Reason Code:

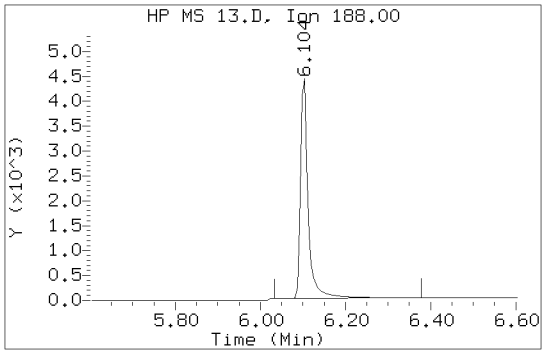
BEFORE

MASS
188
AREA
5234
HEIGHT
4409
21-Jun-2024
15:57
ALSHS
Server



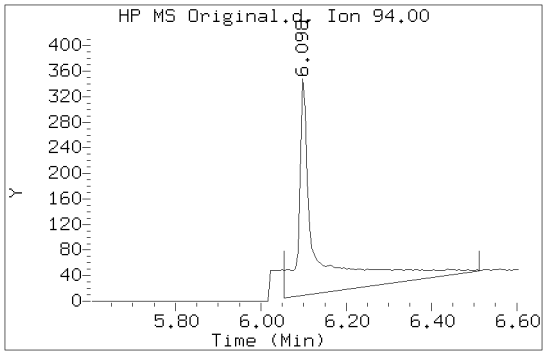
AFTER

MASS
188
AREA
5391
HEIGHT
4407
22-Jun-2024
13:50



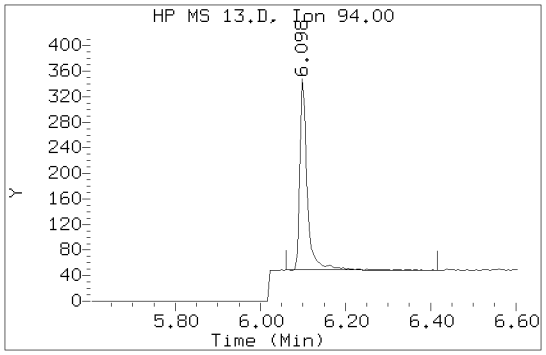
BEFORE

MASS
94
AREA
978
HEIGHT
339
21-Jun-2024
15:57
ALSHS
Server



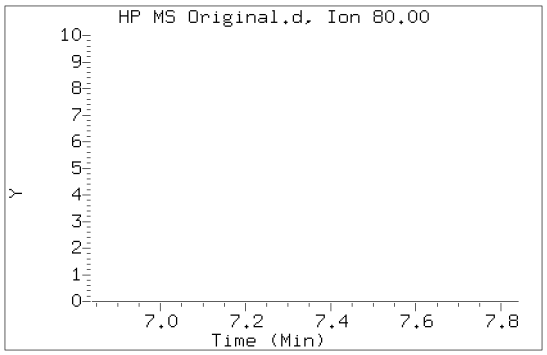
AFTER

MASS
94
AREA
355
HEIGHT
299
22-Jun-2024
13:50



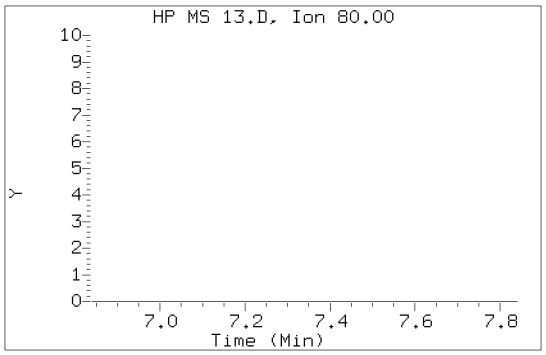
BEFORE

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
15:57
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
13:50

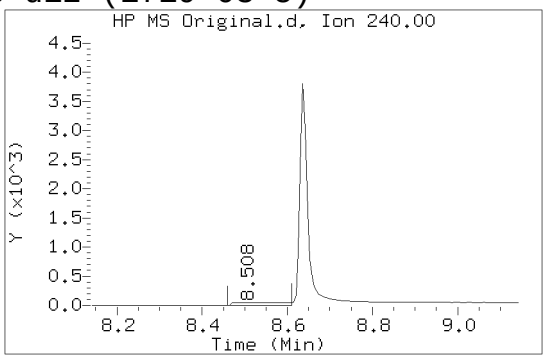


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Inj Date : 21-JUN-2024 15:39
InstruID : SV6.i
LabSampID : LCSD1-213652

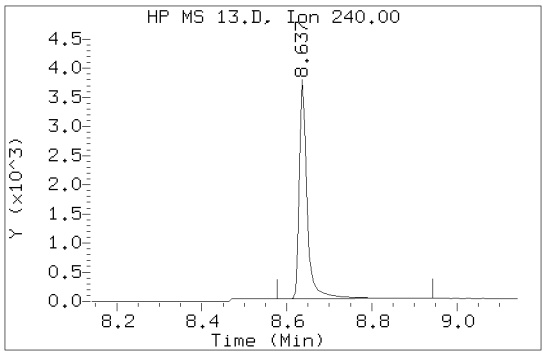
Chrysene-d12 (1719-03-5)

Reason Code:

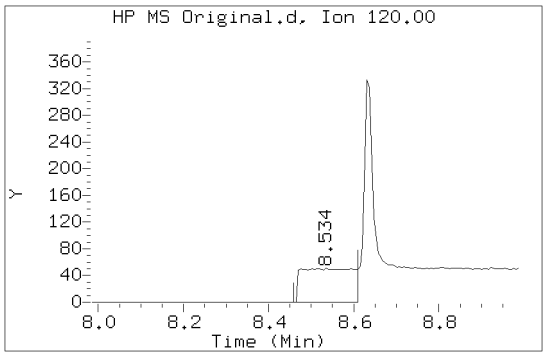
BEFORE
MASS
240
AREA
399
HEIGHT
47
21-Jun-2024
15:57
ALSHS
Server



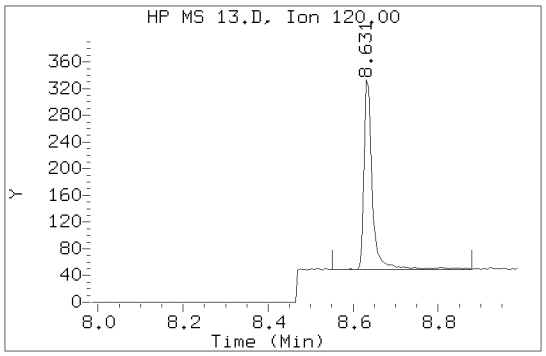
AFTER
MASS
240
AREA
4781
HEIGHT
3755
22-Jun-2024
13:50



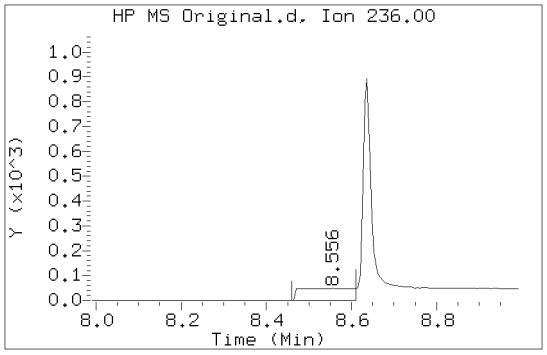
BEFORE
MASS
120
AREA
428
HEIGHT
51
21-Jun-2024
15:57
ALSHS
Server



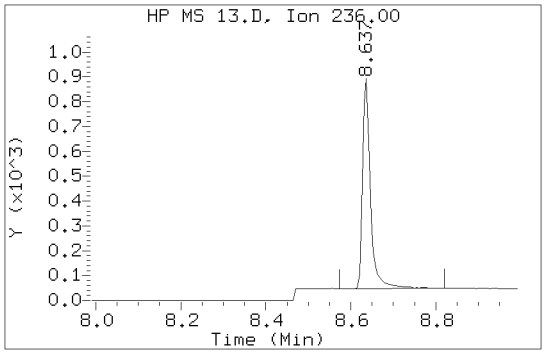
AFTER
MASS
120
AREA
389
HEIGHT
284
22-Jun-2024
13:50



BEFORE
MASS
236
AREA
406
HEIGHT
48
21-Jun-2024
15:57
ALSHS
Server



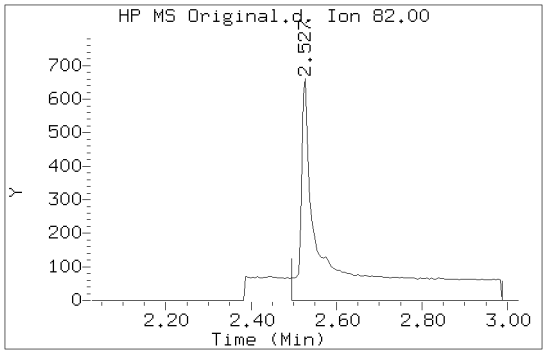
AFTER
MASS
236
AREA
1086
HEIGHT
845
22-Jun-2024
13:50



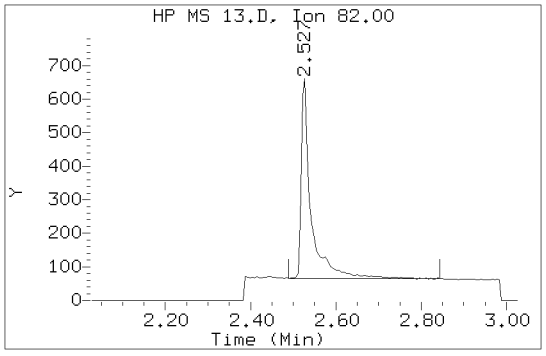
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
2869
HEIGHT
661
21-Jun-2024
15:57
ALSHS
Server



AFTER
MASS
82
AREA
962
HEIGHT
596
22-Jun-2024
13:50

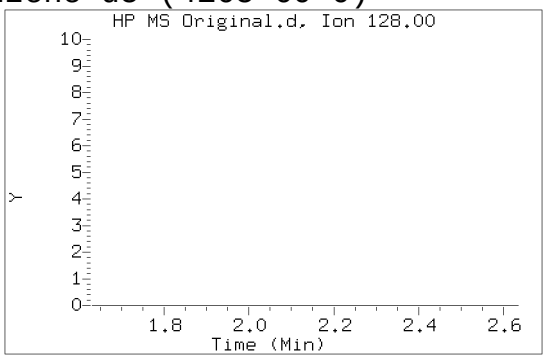


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Inj Date : 21-JUN-2024 15:39
InstruID : SV6.i
LabSampID : LCSD1-213652

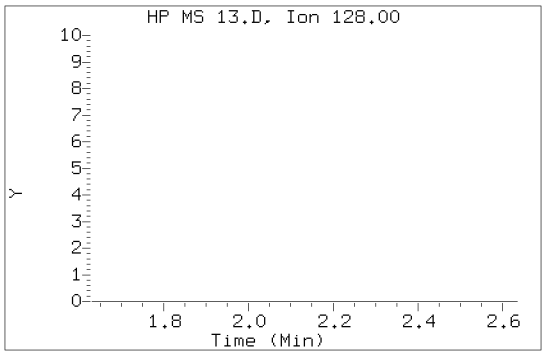
Nitrobenzene-d5 (4165-60-0)

Reason Code:

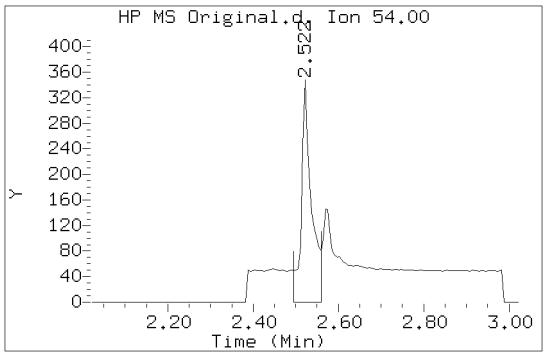
BEFORE
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
15:57
ALSHS
Server



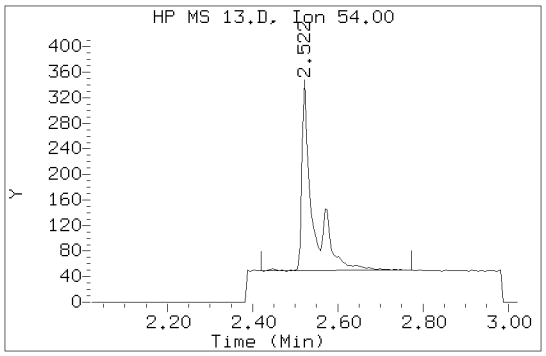
AFTER
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
13:50



BEFORE
MASS
54
AREA
579
HEIGHT
348
21-Jun-2024
15:57
ALSHS
Server



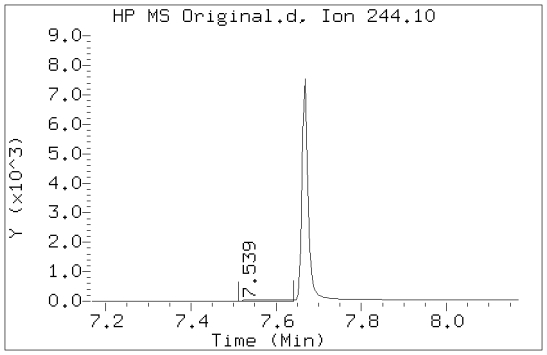
AFTER
MASS
54
AREA
539
HEIGHT
298
22-Jun-2024
13:50



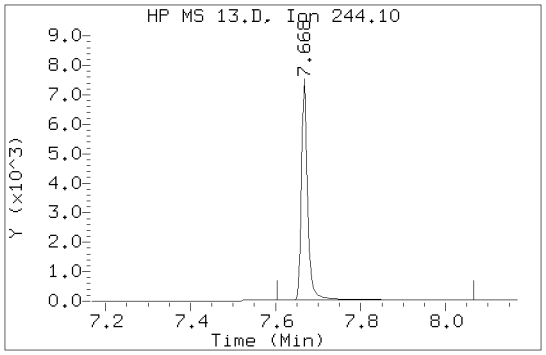
4-Terphenyl-d14 (1718-51-0)

Reason Code:

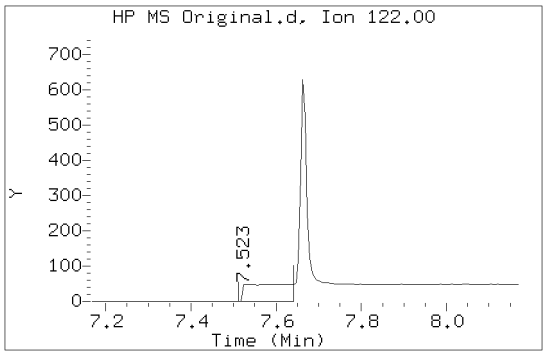
BEFORE
MASS
244.1
AREA
334
HEIGHT
46
21-Jun-2024
15:57
ALSHS
Server



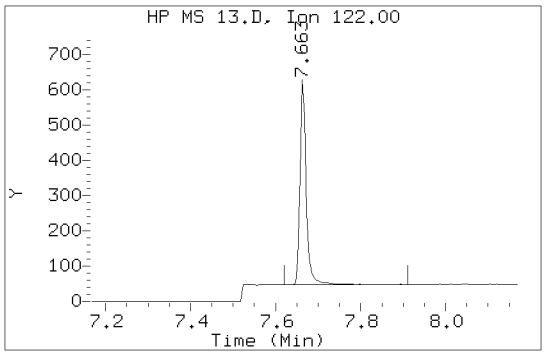
AFTER
MASS
244.1
AREA
7707
HEIGHT
7495
22-Jun-2024
13:50



BEFORE
MASS
122
AREA
350
HEIGHT
48
21-Jun-2024
15:57
ALSHS
Server



AFTER
MASS
122
AREA
598
HEIGHT
581
22-Jun-2024
13:50

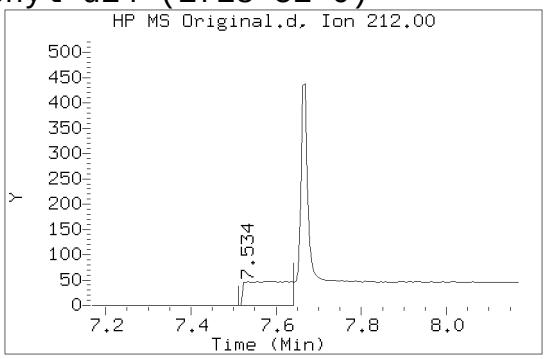


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Inj Date : 21-JUN-2024 15:39
InstruID : SV6.i
LabSampID : LCSD1-213652

4-Terphenyl-d14 (1718-51-0)

BEFORE

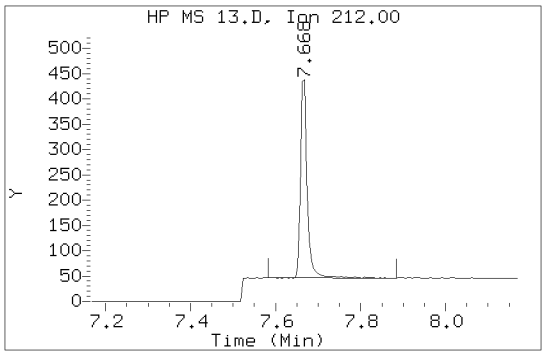
MASS
212
AREA
345
HEIGHT
47
21-Jun-2024
15:57
ALSHS
Server



AFTER

MASS
212
AREA
434
HEIGHT
391
22-Jun-2024
13:50

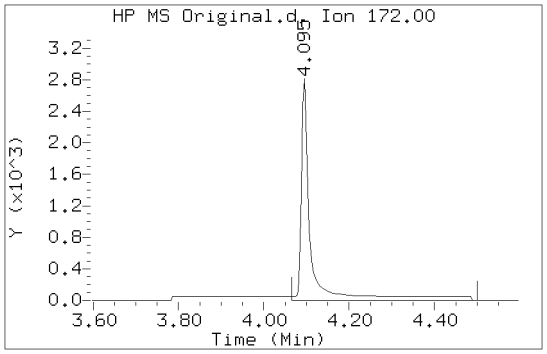
Reason Code:



2-Fluorobiphenyl (321-60-8)

BEFORE

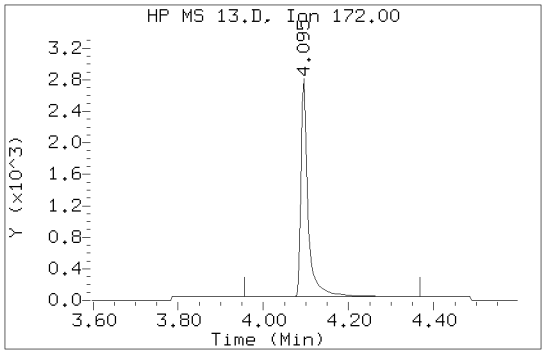
MASS
172
AREA
4450
HEIGHT
2814
21-Jun-2024
15:57
ALSHS
Server



AFTER

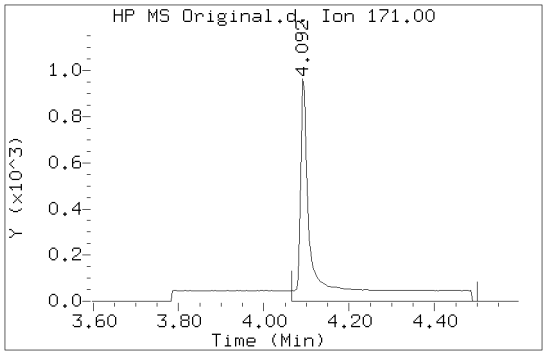
MASS
172
AREA
3218
HEIGHT
2767
22-Jun-2024
13:50

Reason Code:



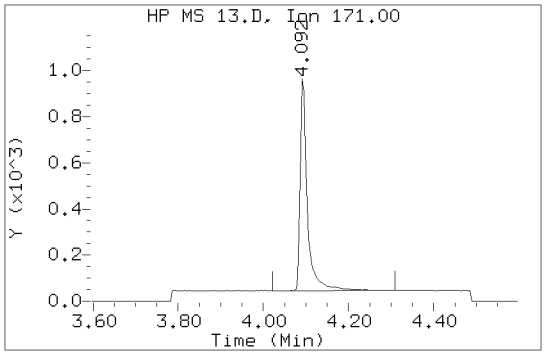
BEFORE

MASS
171
AREA
2259
HEIGHT
964
21-Jun-2024
15:57
ALSHS
Server



AFTER

MASS
171
AREA
1069
HEIGHT
918
22-Jun-2024
13:50



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\23.D Page 1
Report Date: 22-Jun-2024 14:10

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\23.D
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Inj Date : 21-JUN-2024 18:43
Operator : LG Inst ID: SV6.i
Smp Info : HS24060899-03
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.119	2.113	(1.000)	2603	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.106	3.106	(1.000)	5758	0.10000	
$ 33 Nitrobenzene-d5	82	2.526	2.527	(0.813)	1087	0.06288	0.06288(M)
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	3501	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	3698	0.06910	0.06910(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	6782	0.10000	
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	6187	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	8852	0.07023	0.07023(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	6186	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\23.D

Date : 21-JUN-2024 18:43

Client ID:

Instrument: SV6.i

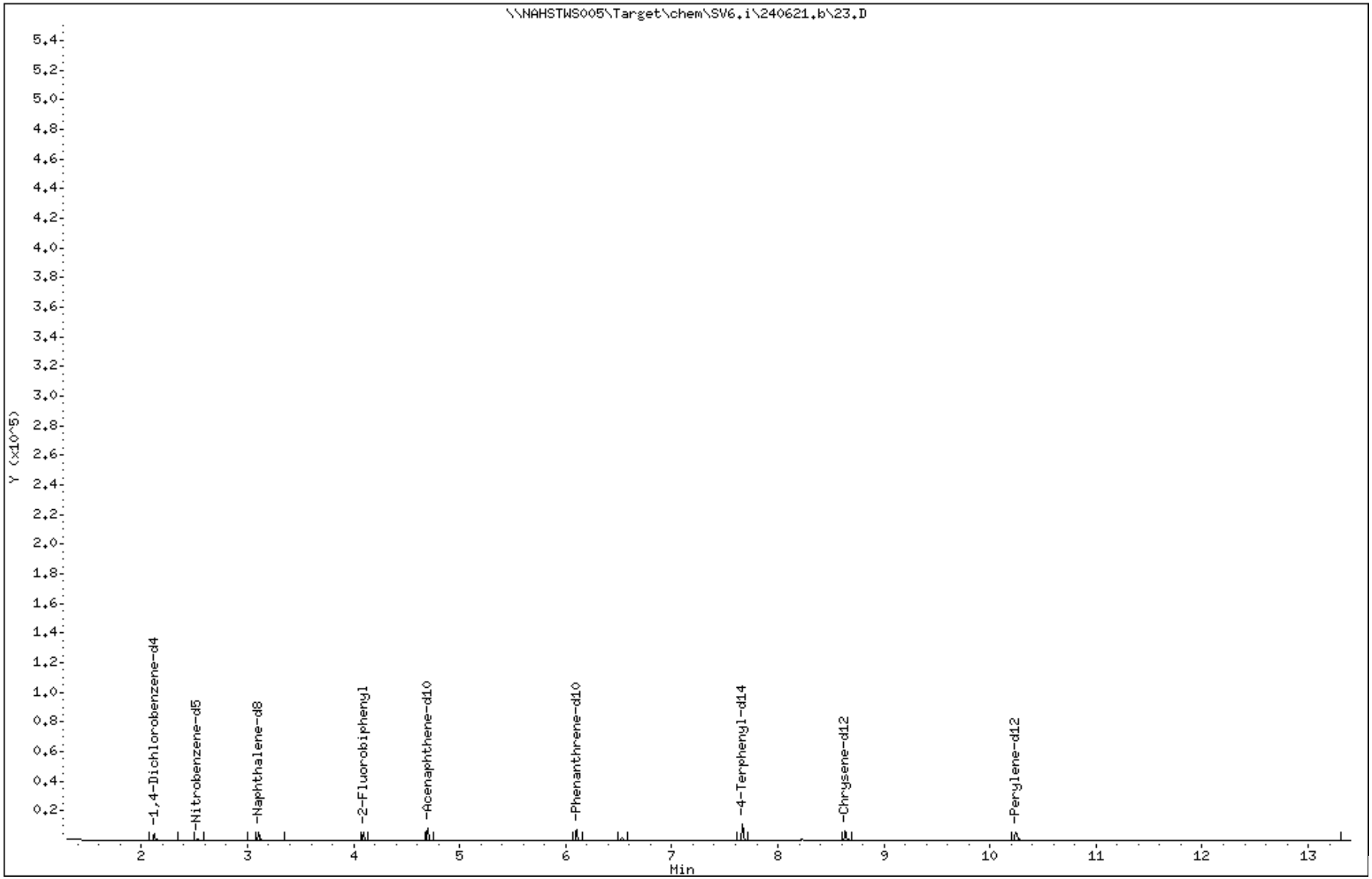
Sample Info: HS24060899-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



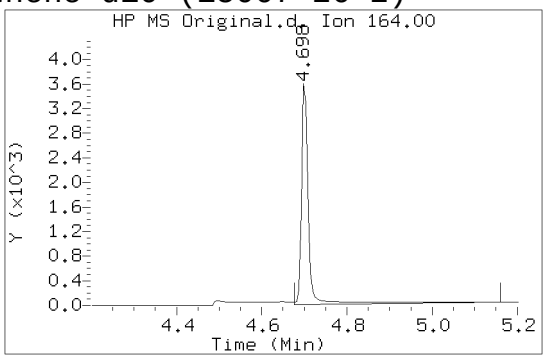
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\23.D
Inj Date : 21-JUN-2024 18:43
InstruID : SV6.i
LabSampID : HS24060899-03

Acenaphthene-d10 (15067-26-2)

Reason Code:

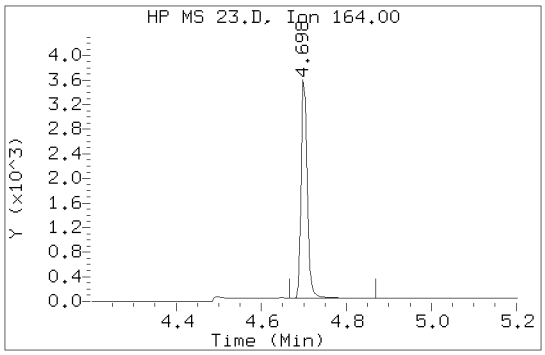
BEFORE

MASS
164
AREA
4074
HEIGHT
3590
21-Jun-2024
18:58
ALSHS
Server



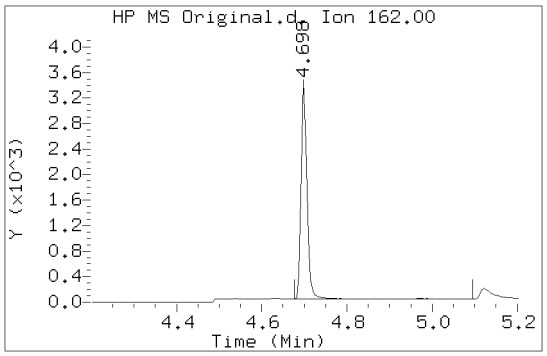
AFTER

MASS
164
AREA
3501
HEIGHT
3553
22-Jun-2024
14:10



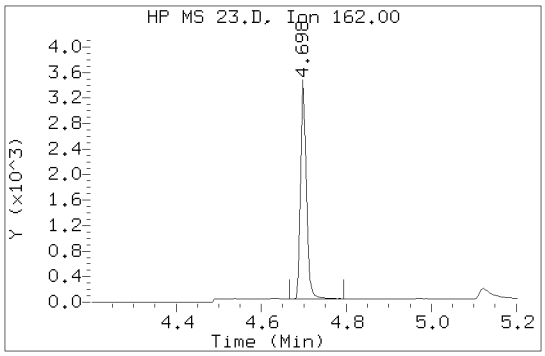
BEFORE

MASS
162
AREA
3227
HEIGHT
3433
21-Jun-2024
18:58
ALSHS
Server



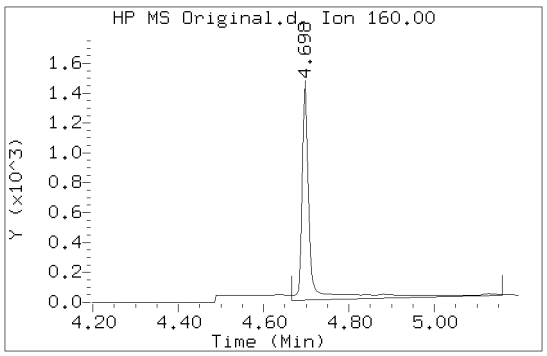
AFTER

MASS
162
AREA
3174
HEIGHT
3430
22-Jun-2024
14:10



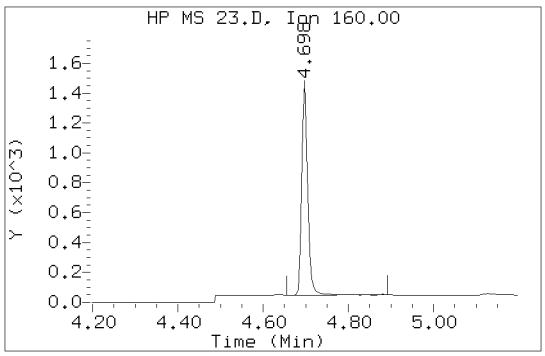
BEFORE

MASS
160
AREA
1936
HEIGHT
1467
21-Jun-2024
18:58
ALSHS
Server



AFTER

MASS
160
AREA
1353
HEIGHT
1433
22-Jun-2024
14:10

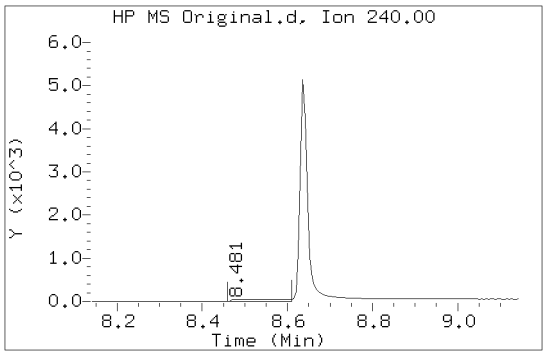


Chrysene-d12 (1719-03-5)

Reason Code:

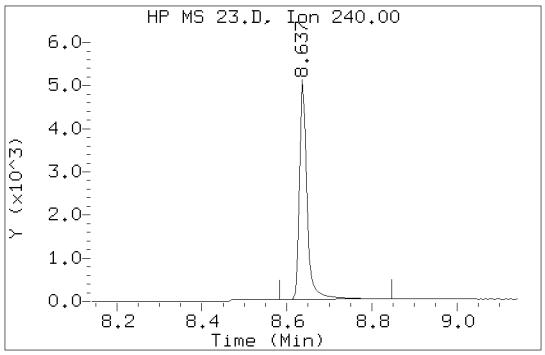
BEFORE

MASS
240
AREA
429
HEIGHT
51
21-Jun-2024
18:58
ALSHS
Server



AFTER

MASS
240
AREA
6187
HEIGHT
5085
22-Jun-2024
14:10



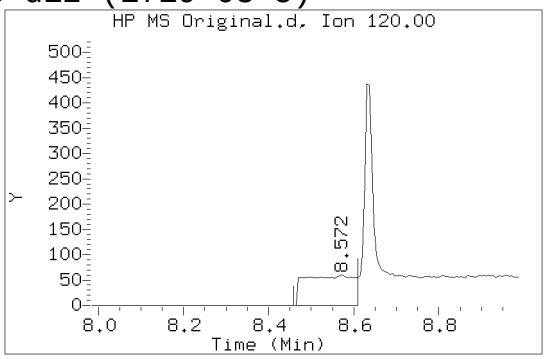
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\23.D
Inj Date : 21-JUN-2024 18:43
InstruID : SV6.i
LabSampID : HS24060899-03

Chrysene-d12 (1719-03-5)

Reason Code:

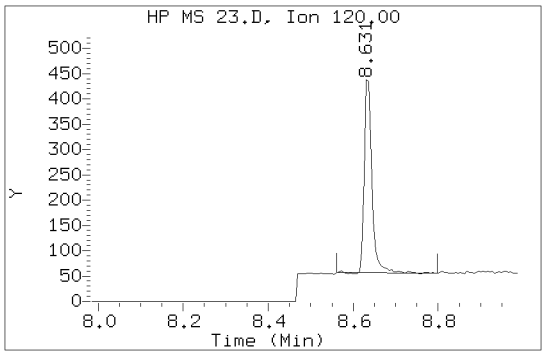
BEFORE

MASS
120
AREA
483
HEIGHT
61
21-Jun-2024
18:58
ALSHS
Server



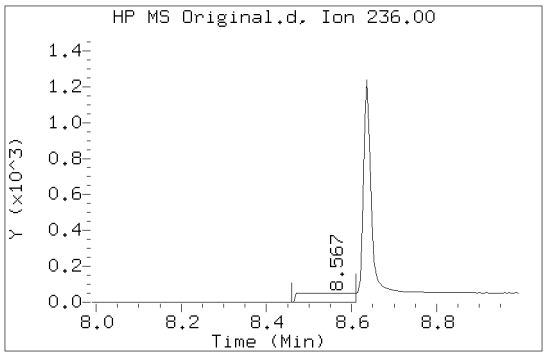
AFTER

MASS
120
AREA
471
HEIGHT
381
22-Jun-2024
14:10



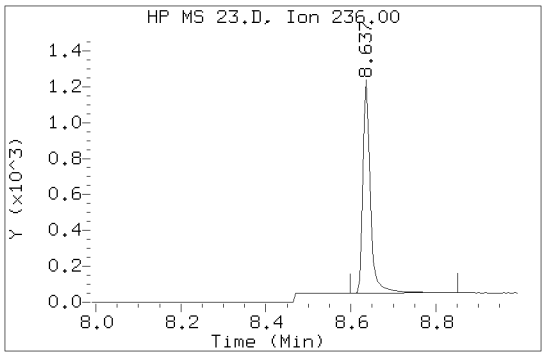
BEFORE

MASS
236
AREA
434
HEIGHT
51
21-Jun-2024
18:58
ALSHS
Server



AFTER

MASS
236
AREA
1460
HEIGHT
1188
22-Jun-2024
14:10

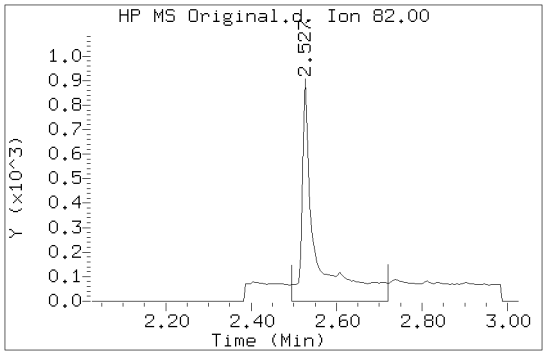


Nitrobenzene-d5 (4165-60-0)

Reason Code:

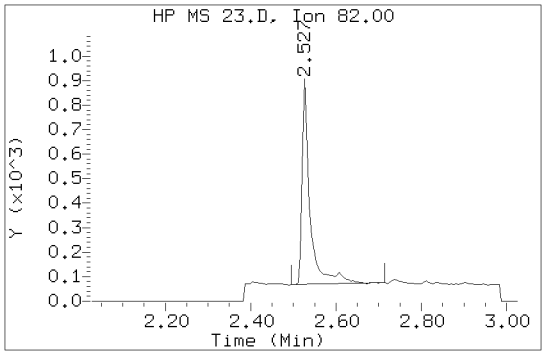
BEFORE

MASS
82
AREA
2077
HEIGHT
907
21-Jun-2024
18:58
ALSHS
Server



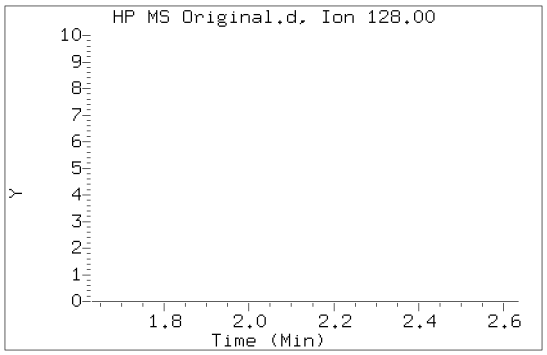
AFTER

MASS
82
AREA
1087
HEIGHT
837
22-Jun-2024
14:10



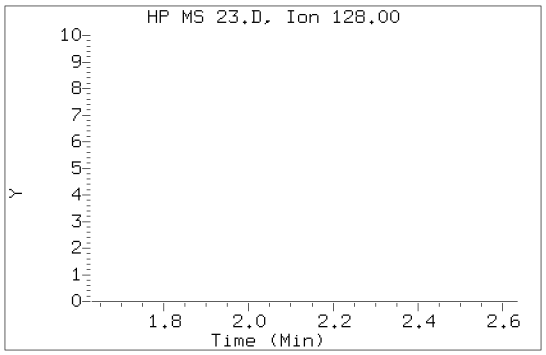
BEFORE

MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
18:58
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
14:10

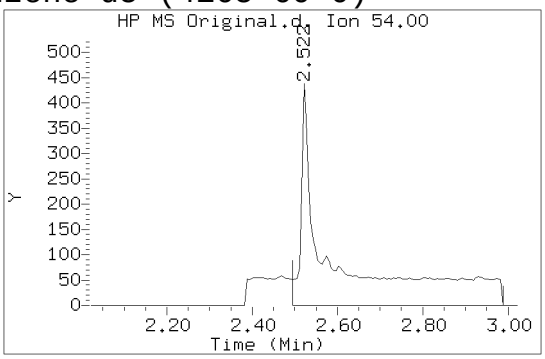


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\23.D
Inj Date : 21-JUN-2024 18:43
InstruID : SV6.i
LabSampID : HS24060899-03

Nitrobenzene-d5 (4165-60-0)

BEFORE

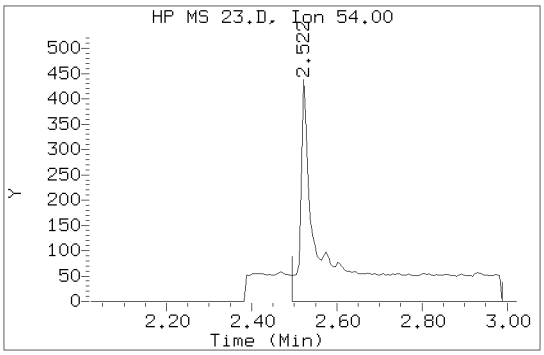
MASS
54
AREA
2102
HEIGHT
438
21-Jun-2024
18:58
ALSHS
Server



Reason Code:

AFTER

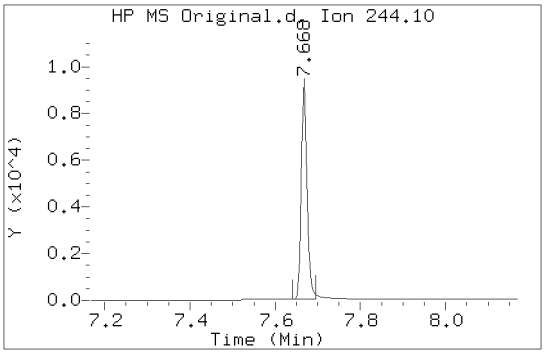
MASS
54
AREA
2102
HEIGHT
438
22-Jun-2024
14:10



4-Terphenyl-d14 (1718-51-0)

BEFORE

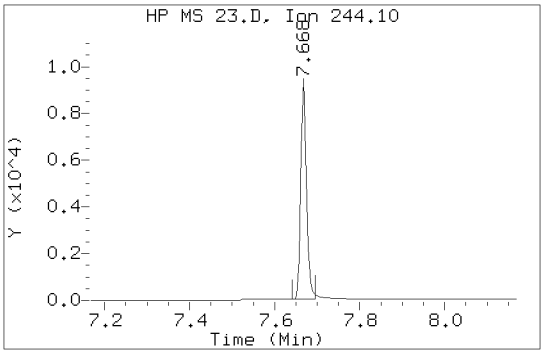
MASS
244.1
AREA
8852
HEIGHT
9442
21-Jun-2024
18:58
ALSHS
Server



Reason Code:

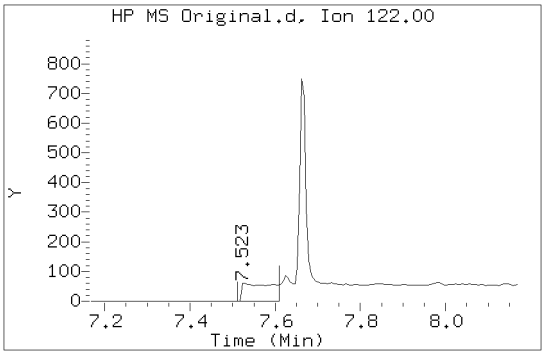
AFTER

MASS
244.1
AREA
8852
HEIGHT
9442
22-Jun-2024
14:10



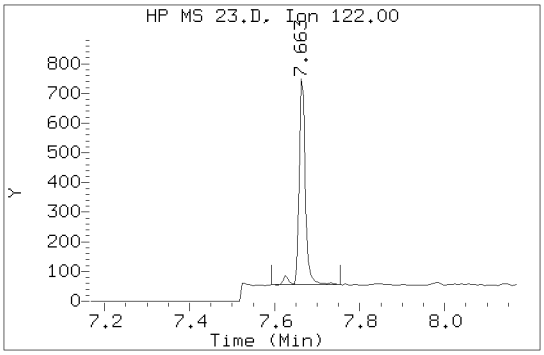
BEFORE

MASS
122
AREA
303
HEIGHT
60
21-Jun-2024
18:58
ALSHS
Server



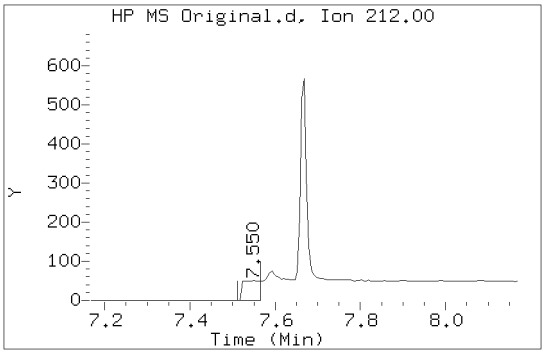
AFTER

MASS
122
AREA
727
HEIGHT
693
22-Jun-2024
14:10



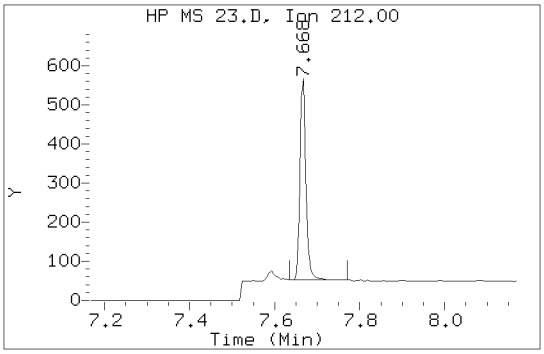
BEFORE

MASS
212
AREA
144
HEIGHT
51
21-Jun-2024
18:58
ALSHS
Server



AFTER

MASS
212
AREA
509
HEIGHT
514
22-Jun-2024
14:10

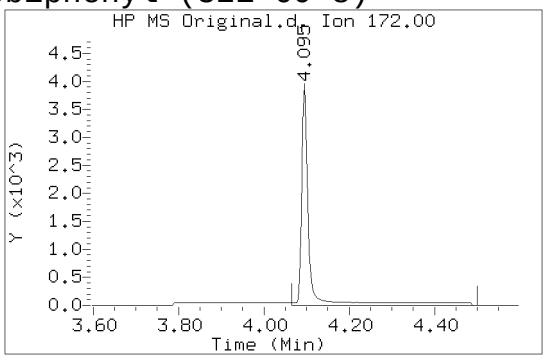


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\23.D
Inj Date : 21-JUN-2024 18:43
InstruID : SV6.i
LabSampID : HS24060899-03

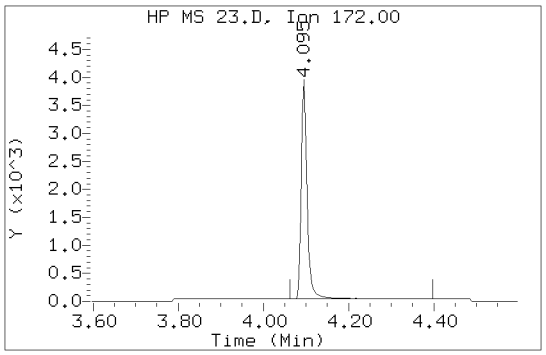
2-Fluorobiphenyl (321-60-8)

Reason Code:

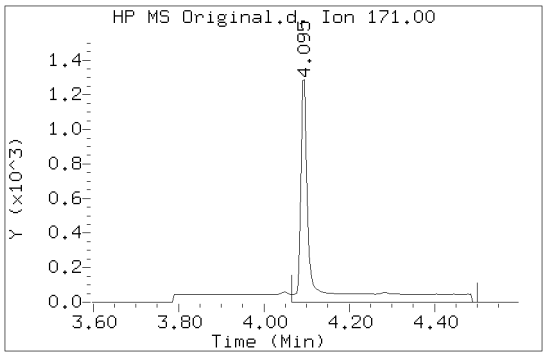
BEFORE
MASS
172
AREA
4918
HEIGHT
3959
21-Jun-2024
18:58
ALSHS
Server



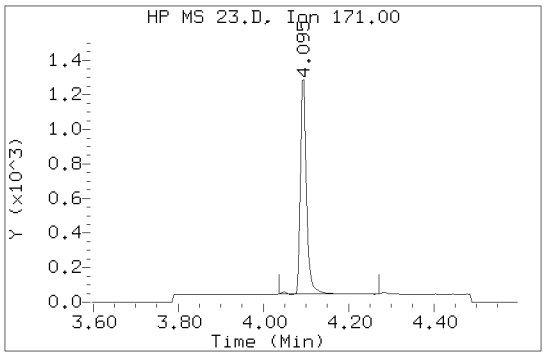
AFTER
MASS
172
AREA
3698
HEIGHT
3912
22-Jun-2024
14:10



BEFORE
MASS
171
AREA
2437
HEIGHT
1286
21-Jun-2024
18:58
ALSHS
Server



AFTER
MASS
171
AREA
1221
HEIGHT
1238
22-Jun-2024
14:10



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\24.D
Lab Smp Id: HS24060899-04 Client Smp ID: HS24060899-4
Inj Date : 21-JUN-2024 19:01
Operator : LG Inst ID: SV6.i
Smp Info : HS24060899-04
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 23-Jul-2024 14:33 r.patel Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.119	2.113	(1.000)	2502	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.106	3.106	(1.000)	5216	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.813)	1187	0.07580	0.07580(M)
* 86 Acenaphthene-d10	164	4.698	4.703	(1.000)	3738	0.10000	
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.872)	4670	0.08173	0.08173(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	6204	0.10000	(M)
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	5748	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	10019	0.08556	0.08556(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	5735	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\24.D

Date : 21-JUN-2024 19:01

Client ID: HS24060899-4

Instrument: SV6.i

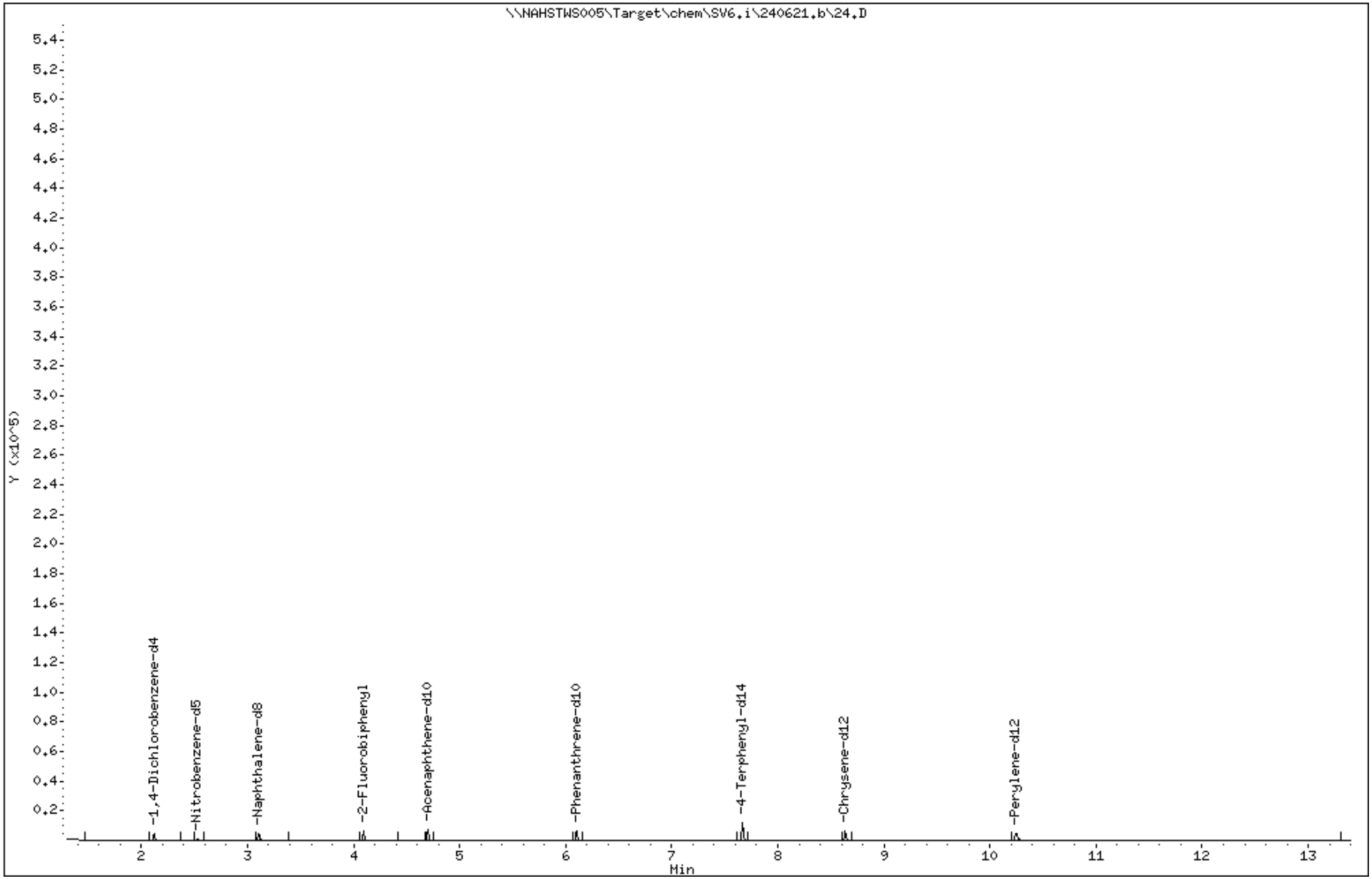
Sample Info: HS24060899-04

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



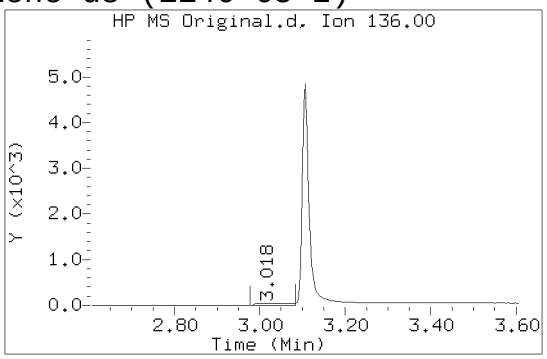
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\24.D
Inj Date : 21-JUN-2024 19:01
InstruID : SV6.i
LabSampID : HS24060899-04

Naphthalene-d8 (1146-65-2)

Reason Code:

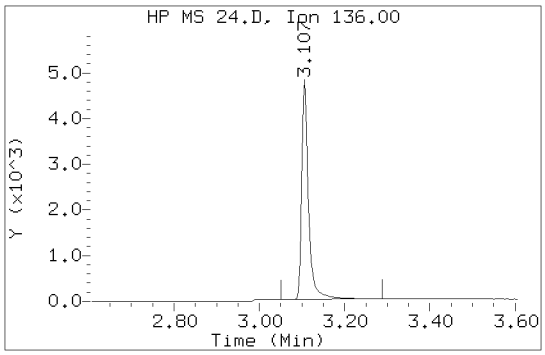
BEFORE

MASS
136
AREA
294
HEIGHT
49
21-Jun-2024
19:17
ALSHS
Server



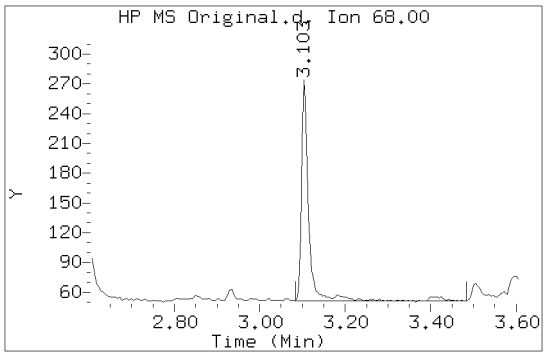
AFTER

MASS
136
AREA
5216
HEIGHT
4803
23-Jul-2024
14:33
ALSHS
S



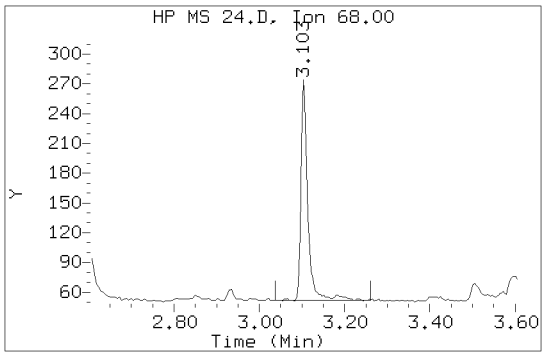
BEFORE

MASS
68
AREA
266
HEIGHT
223
21-Jun-2024
19:17
ALSHS
Server



AFTER

MASS
68
AREA
242
HEIGHT
222
23-Jul-2024
14:33
ALSHS
S

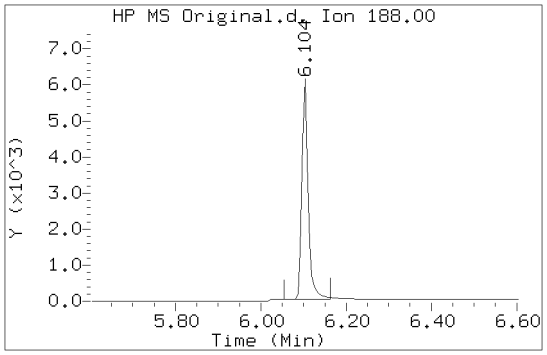


Phenanthrene-d10 (1517-22-2)

Reason Code:

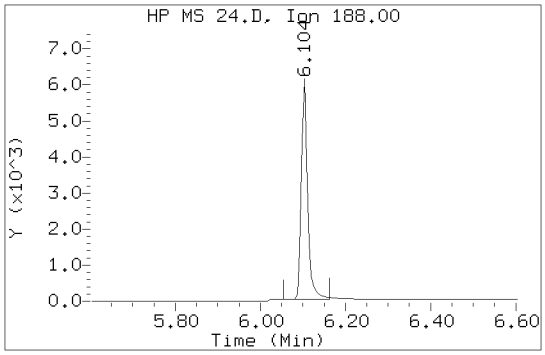
BEFORE

MASS
188
AREA
6204
HEIGHT
6119
21-Jun-2024
19:17
ALSHS
Server



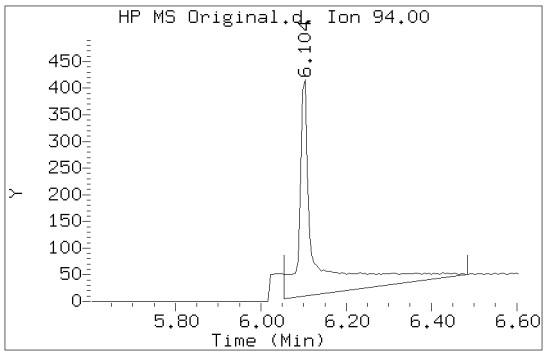
AFTER

MASS
188
AREA
6204
HEIGHT
6119
23-Jul-2024
14:33
ALSHS
S



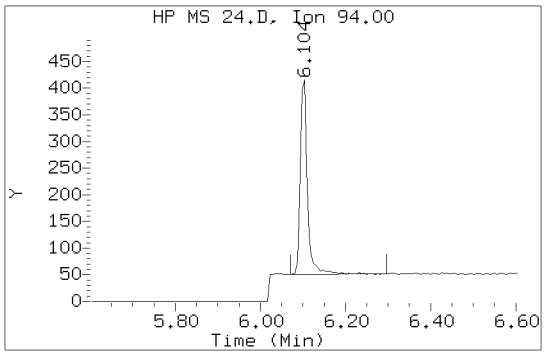
BEFORE

MASS
94
AREA
1046
HEIGHT
405
21-Jun-2024
19:17
ALSHS
Server



AFTER

MASS
94
AREA
412
HEIGHT
364
23-Jul-2024
14:33
ALSHS
S



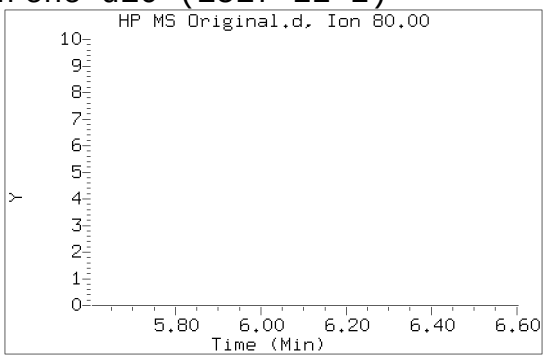
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Inj Date : 21-JUN-2024 19:01
InstruID : SV6.i
LabSampID : HS24060899-04

Phenanthrene-d10 (1517-22-2)

Reason Code:

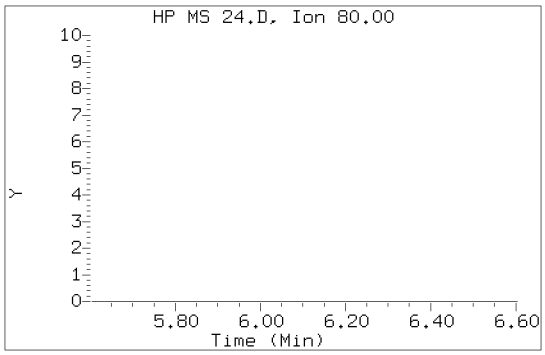
BEFORE

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
19:17
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
23-Jul-2024
14:33
ALSHS
S

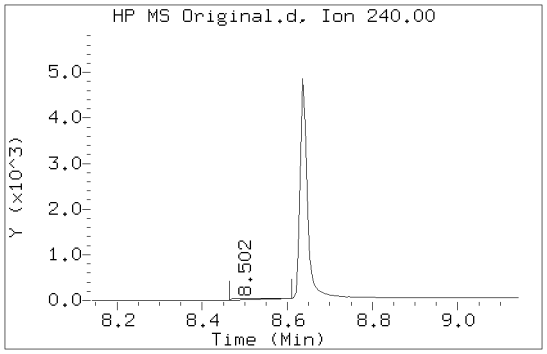


Chrysene-d12 (1719-03-5)

Reason Code:

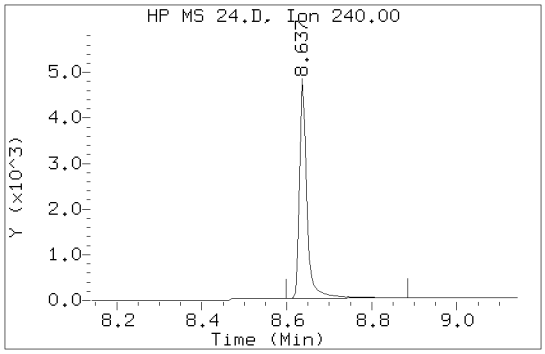
BEFORE

MASS
240
AREA
199
HEIGHT
36
21-Jun-2024
19:17
ALSHS
Server



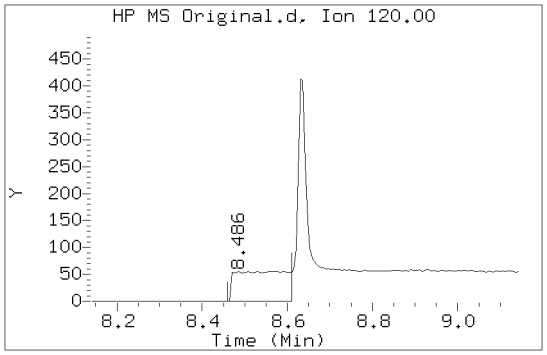
AFTER

MASS
240
AREA
5748
HEIGHT
4810
23-Jul-2024
14:33
ALSHS
S



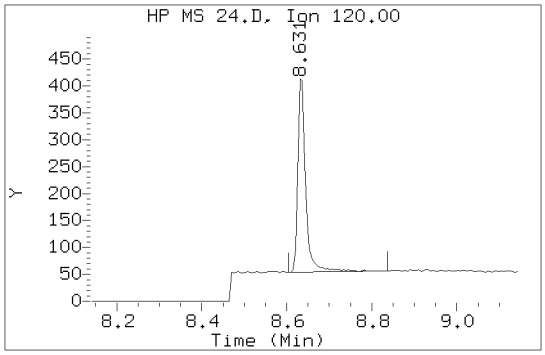
BEFORE

MASS
120
AREA
471
HEIGHT
55
21-Jun-2024
19:17
ALSHS
Server



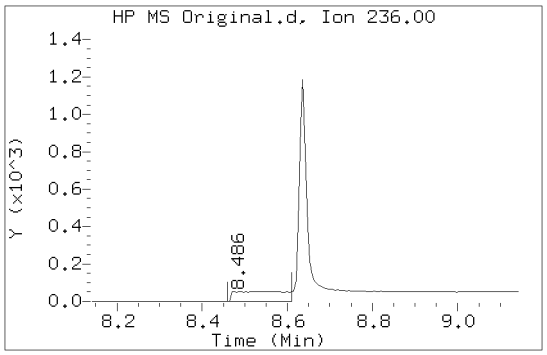
AFTER

MASS
120
AREA
457
HEIGHT
358
23-Jul-2024
14:33
ALSHS
S



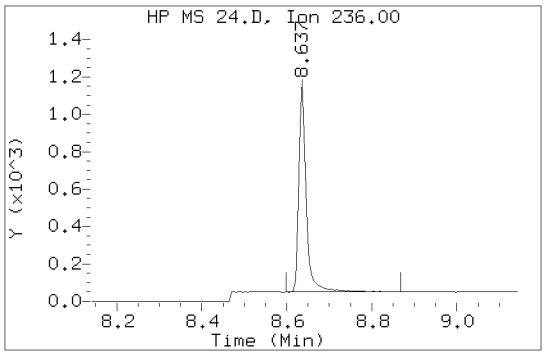
BEFORE

MASS
236
AREA
434
HEIGHT
51
21-Jun-2024
19:17
ALSHS
Server



AFTER

MASS
236
AREA
1338
HEIGHT
1134
23-Jul-2024
14:33
ALSHS
S



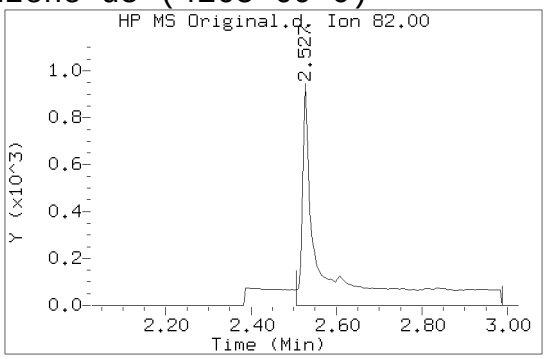
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\24.D
Inj Date : 21-JUN-2024 19:01
InstruID : SV6.i
LabSampID : HS24060899-04

Nitrobenzene-d5 (4165-60-0)

Reason Code:

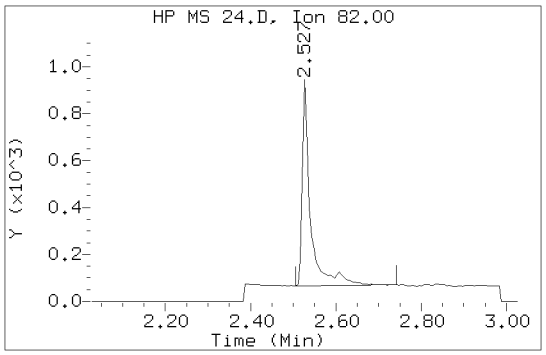
BEFORE

MASS
82
AREA
3150
HEIGHT
945
21-Jun-2024
19:17
ALSHS
Server



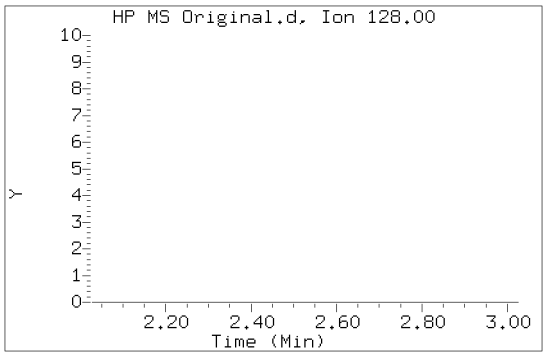
AFTER

MASS
82
AREA
1187
HEIGHT
878
23-Jul-2024
14:33
ALSHS
S



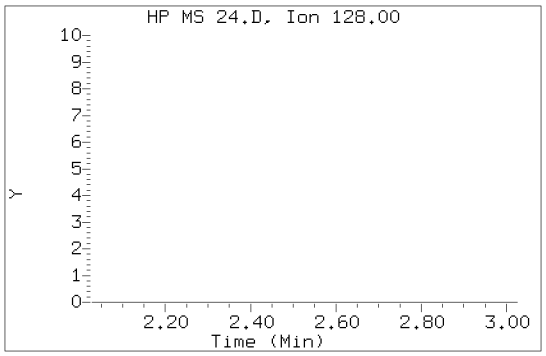
BEFORE

MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
19:17
ALSHS
Server



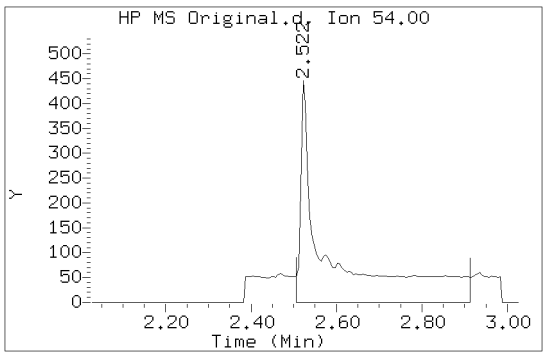
AFTER

MASS
128
AREA
0
HEIGHT
0
23-Jul-2024
14:33
ALSHS
S



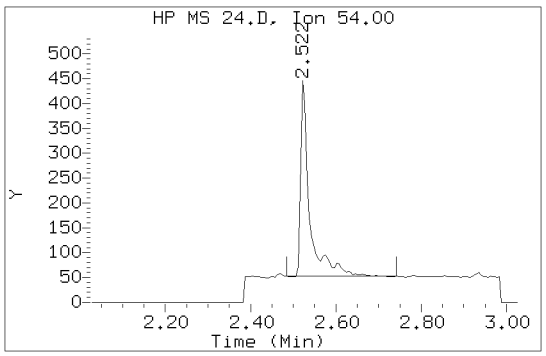
BEFORE

MASS
54
AREA
1872
HEIGHT
446
21-Jun-2024
19:17
ALSHS
Server



AFTER

MASS
54
AREA
572
HEIGHT
393
23-Jul-2024
14:33
ALSHS
S

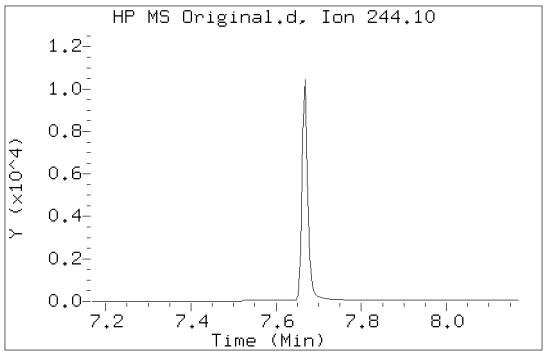


4-Terphenyl-d14 (1718-51-0)

Reason Code:

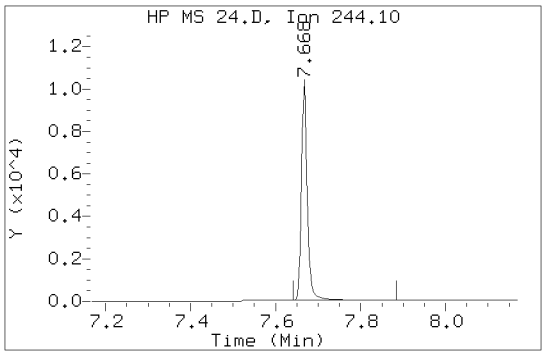
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
21-Jun-2024
19:17
ALSHS
Server



AFTER

MASS
244.1
AREA
10019
HEIGHT
10389
23-Jul-2024
14:33
ALSHS
S

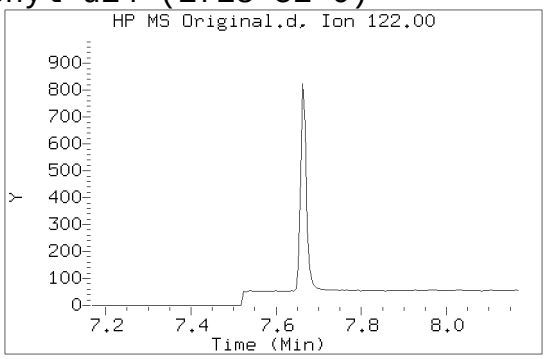


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\24.D
Inj Date : 21-JUN-2024 19:01
InstruID : SV6.i
LabSampID : HS24060899-04

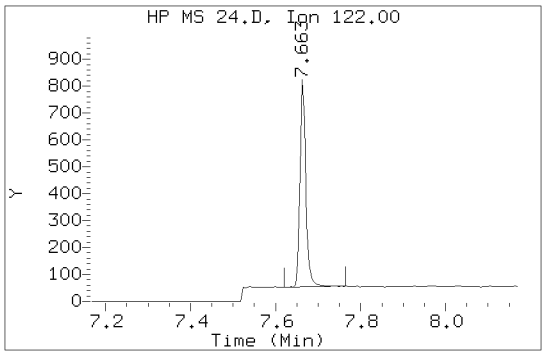
4-Terphenyl-d14 (1718-51-0)

Reason Code:

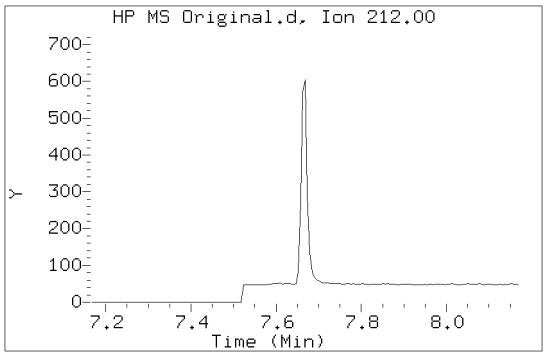
BEFORE
MASS
122
AREA
0
HEIGHT
0
21-Jun-2024
19:17
ALSHS
Server



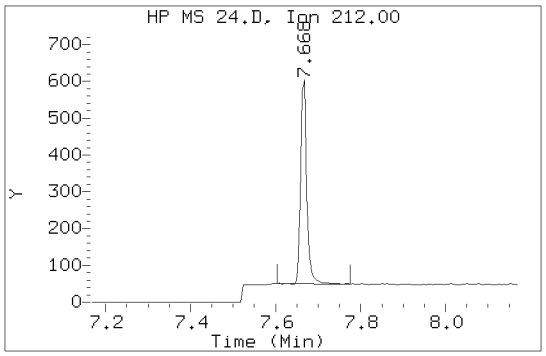
AFTER
MASS
122
AREA
751
HEIGHT
770
23-Jul-2024
14:33
ALSHS
S



BEFORE
MASS
212
AREA
0
HEIGHT
0
21-Jun-2024
19:17
ALSHS
Server



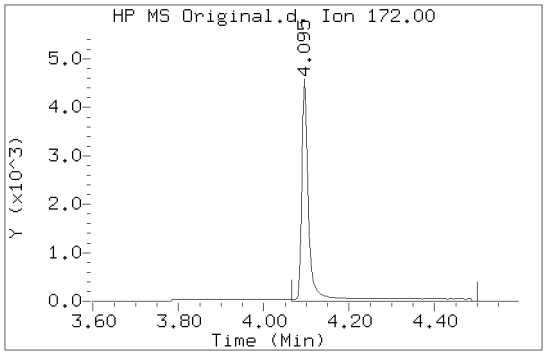
AFTER
MASS
212
AREA
562
HEIGHT
553
23-Jul-2024
14:33
ALSHS
S



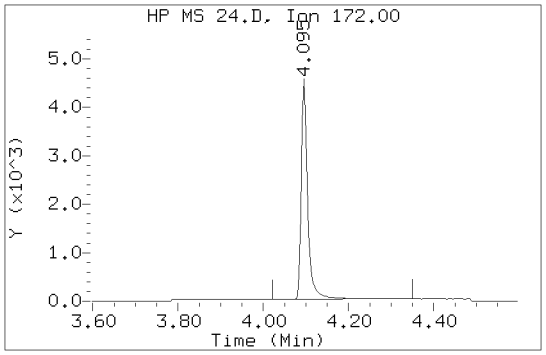
2-Fluorobiphenyl (321-60-8)

Reason Code:

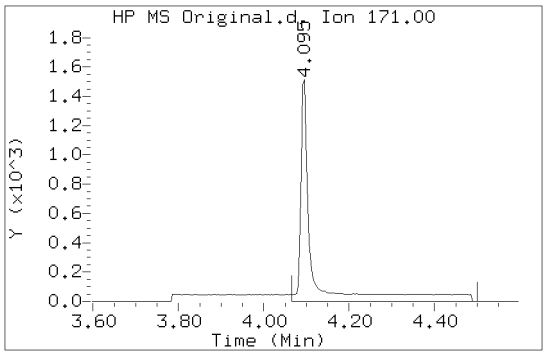
BEFORE
MASS
172
AREA
5905
HEIGHT
4588
21-Jun-2024
19:17
ALSHS
Server



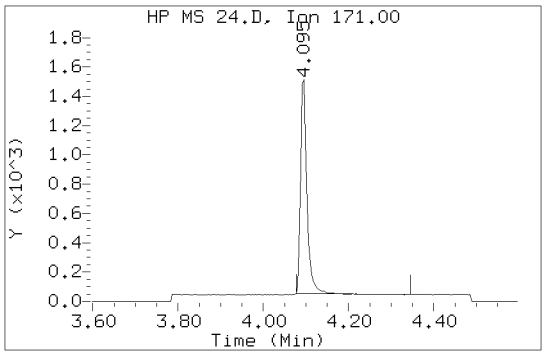
AFTER
MASS
172
AREA
4670
HEIGHT
4541
23-Jul-2024
14:33
ALSHS
S



BEFORE
MASS
171
AREA
2754
HEIGHT
1513
21-Jun-2024
19:17
ALSHS
Server



AFTER
MASS
171
AREA
1491
HEIGHT
1459
23-Jul-2024
14:33
ALSHS
S



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\25.D Page 1
Report Date: 22-Jun-2024 14:12

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\25.D
Lab Smp Id: HS24060899-05
Inj Date : 21-JUN-2024 19:18
Operator : LG Inst ID: SV6.i
Smp Info : HS24060899-05
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.119	2.113	(1.000)	2321	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.106	3.106	(1.000)	4700	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.813)	817	0.05790	0.05790(M)
* 86 Acenaphthene-d10	164	4.703	4.703	(1.000)	3467	0.10000	
$ 69 2-Fluorobiphenyl	172	4.095	4.098	(0.871)	2808	0.05298	0.05298(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	5686	0.10000	(M)
* 182 Chrysene-d12	240	8.636	8.641	(1.000)	5262	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.888)	6076	0.05668	0.05668(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	5276	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\25.D

Date : 21-JUN-2024 19:18

Client ID:

Instrument: SV6.i

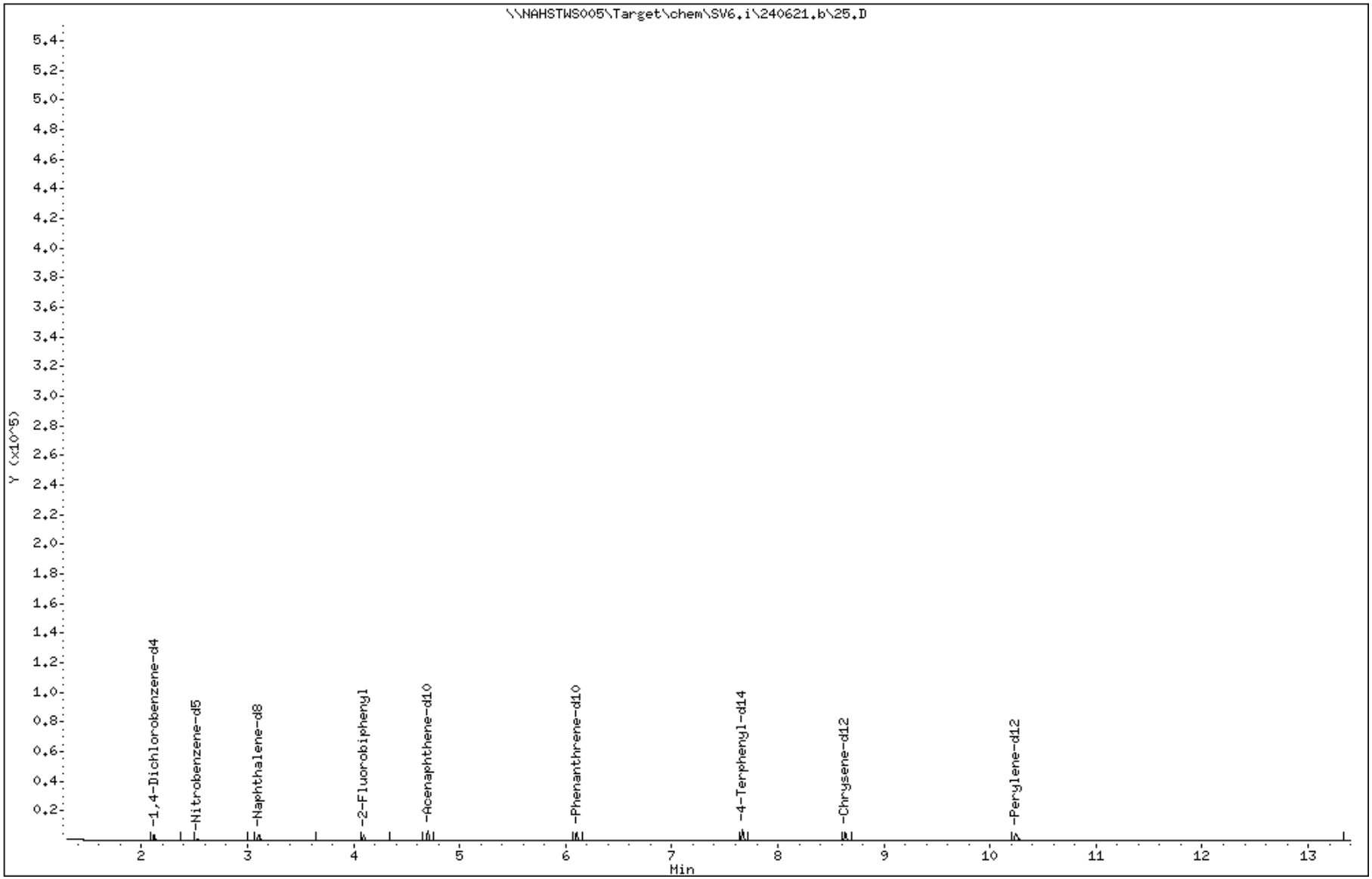
Sample Info: HS24060899-05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

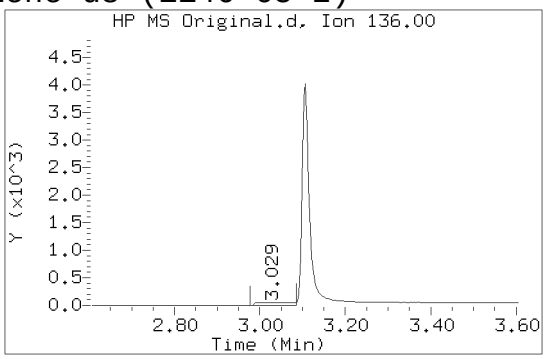


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\25.D
Inj Date : 21-JUN-2024 19:18
InstruID : SV6.i
LabSampID : HS24060899-05

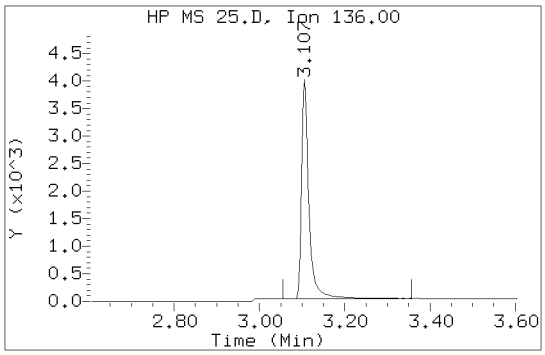
Naphthalene-d8 (1146-65-2)

Reason Code:

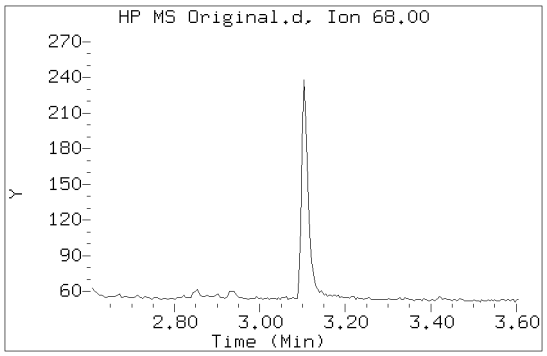
BEFORE
MASS
136
AREA
295
HEIGHT
50
21-Jun-2024
19:35
ALSHS
Server



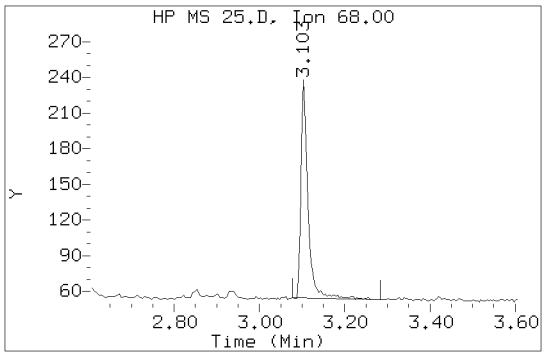
AFTER
MASS
136
AREA
4700
HEIGHT
3975
22-Jun-2024
14:11



BEFORE
MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
19:35
ALSHS
Server



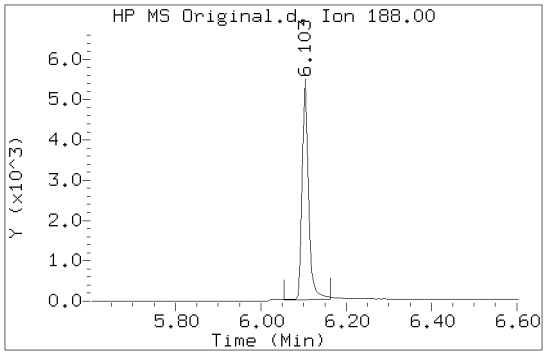
AFTER
MASS
68
AREA
205
HEIGHT
183
22-Jun-2024
14:11



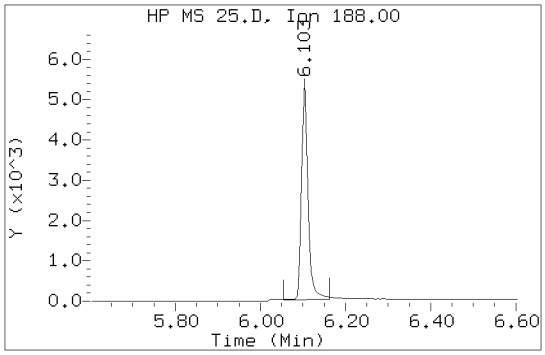
Phenanthrene-d10 (1517-22-2)

Reason Code:

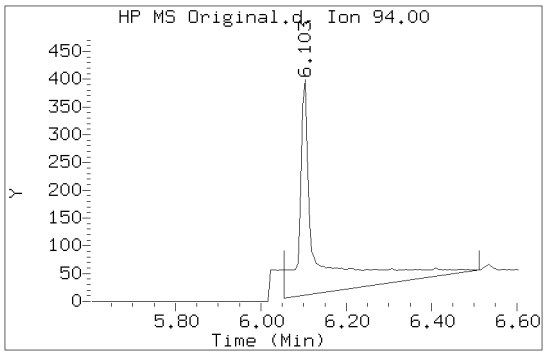
BEFORE
MASS
188
AREA
5686
HEIGHT
5474
21-Jun-2024
19:35
ALSHS
Server



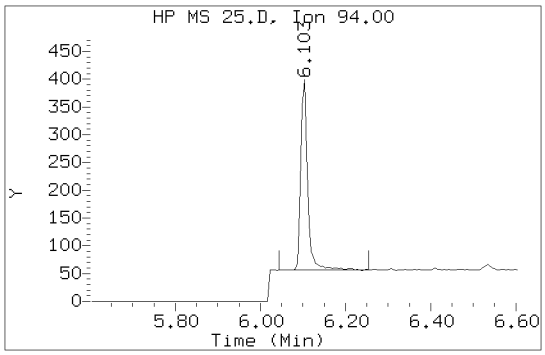
AFTER
MASS
188
AREA
5686
HEIGHT
5474
22-Jun-2024
14:11



BEFORE
MASS
94
AREA
1099
HEIGHT
387
21-Jun-2024
19:35
ALSHS
Server



AFTER
MASS
94
AREA
380
HEIGHT
342
22-Jun-2024
14:11



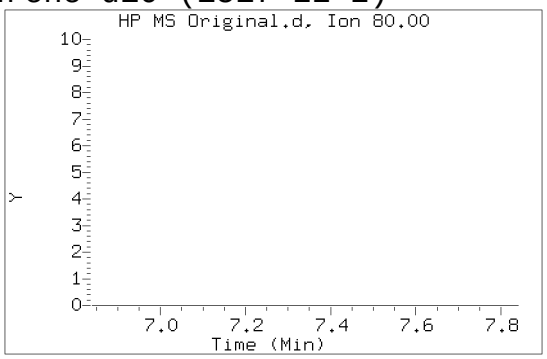
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Inj Date : 21-JUN-2024 19:18
InstruID : SV6.i
LabSampID : HS24060899-05

Phenanthrene-d10 (1517-22-2)

Reason Code:

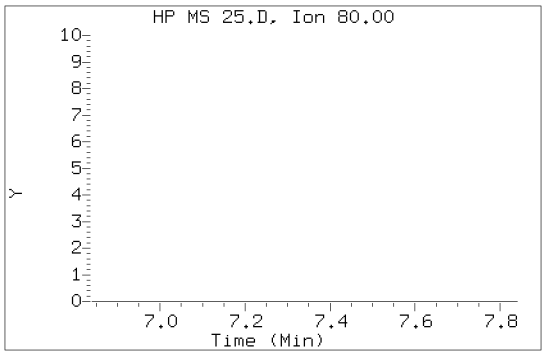
BEFORE

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
19:35
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
14:11

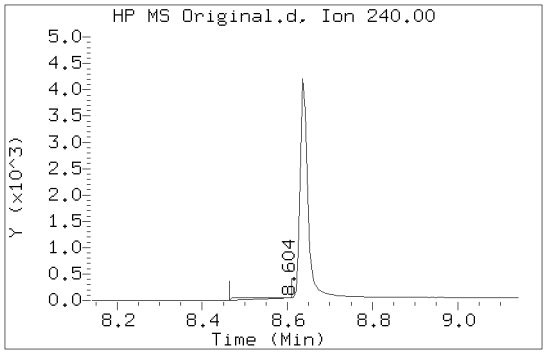


Chrysene-d12 (1719-03-5)

Reason Code:

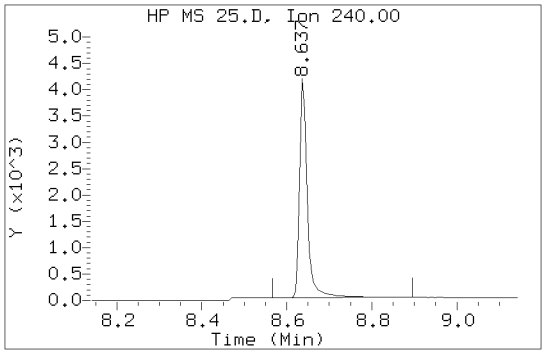
BEFORE

MASS
240
AREA
203
HEIGHT
1
21-Jun-2024
19:35
ALSHS
Server



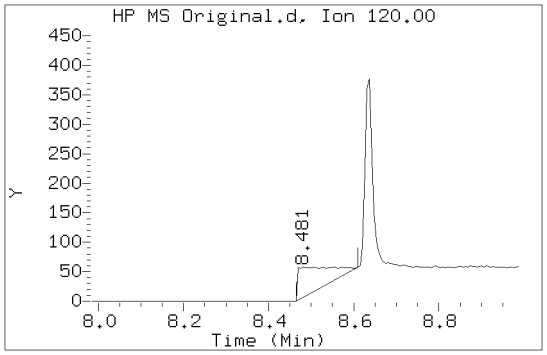
AFTER

MASS
240
AREA
5262
HEIGHT
4159
22-Jun-2024
14:11



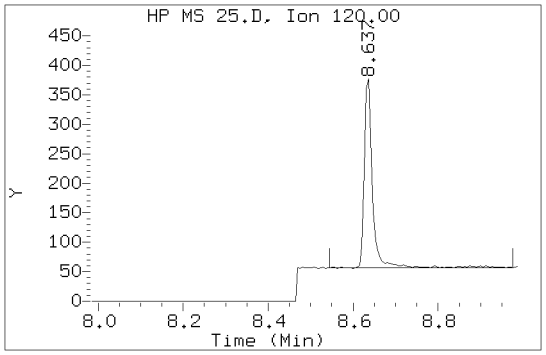
BEFORE

MASS
120
AREA
235
HEIGHT
51
21-Jun-2024
19:35
ALSHS
Server



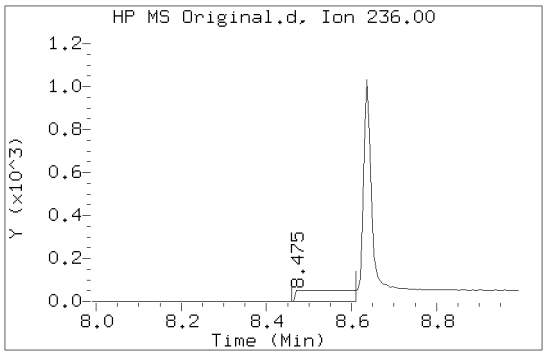
AFTER

MASS
120
AREA
427
HEIGHT
320
22-Jun-2024
14:11



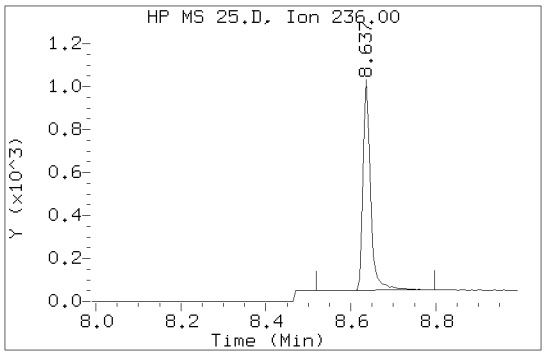
BEFORE

MASS
236
AREA
445
HEIGHT
52
21-Jun-2024
19:35
ALSHS
Server



AFTER

MASS
236
AREA
1201
HEIGHT
980
22-Jun-2024
14:11

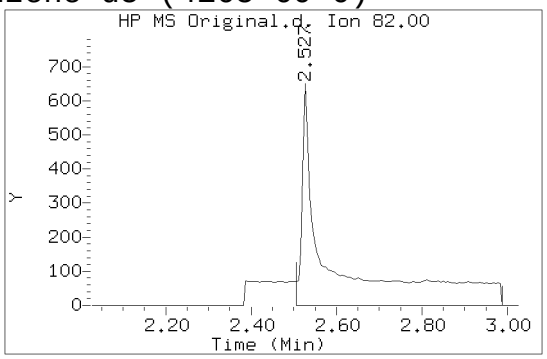


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Inj Date : 21-JUN-2024 19:18
InstruID : SV6.i
LabSampID : HS24060899-05

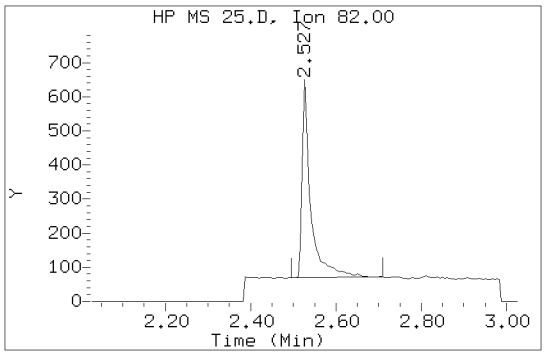
Nitrobenzene-d5 (4165-60-0)

Reason Code:

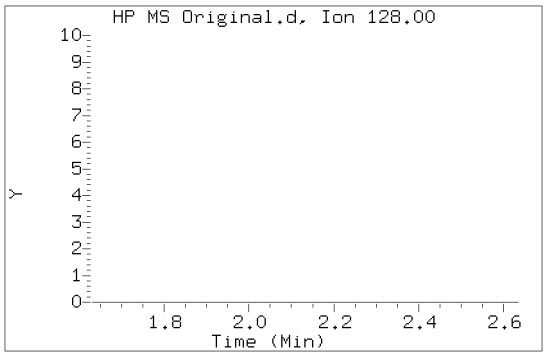
BEFORE
MASS
82
AREA
2816
HEIGHT
650
21-Jun-2024
19:35
ALSHS
Server



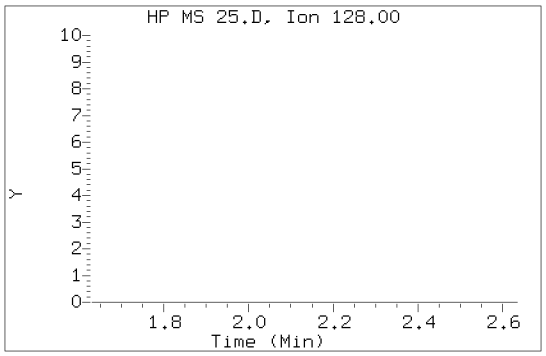
AFTER
MASS
82
AREA
817
HEIGHT
580
22-Jun-2024
14:11



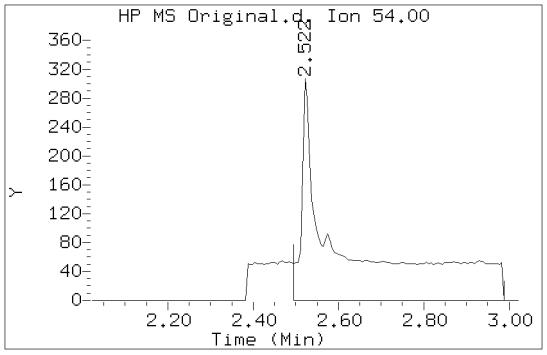
BEFORE
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
19:35
ALSHS
Server



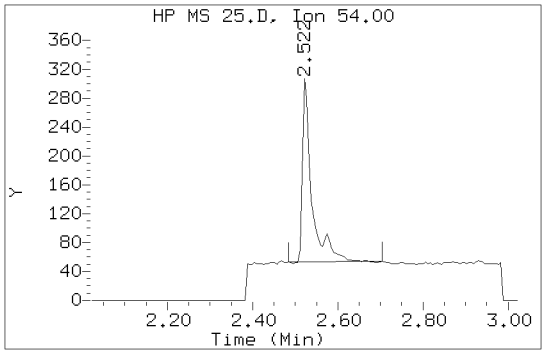
AFTER
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
14:11



BEFORE
MASS
54
AREA
1939
HEIGHT
307
21-Jun-2024
19:35
ALSHS
Server



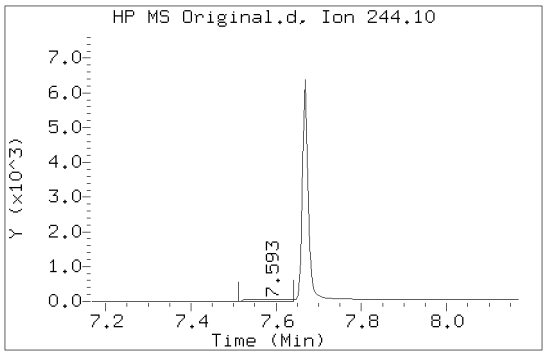
AFTER
MASS
54
AREA
386
HEIGHT
253
22-Jun-2024
14:11



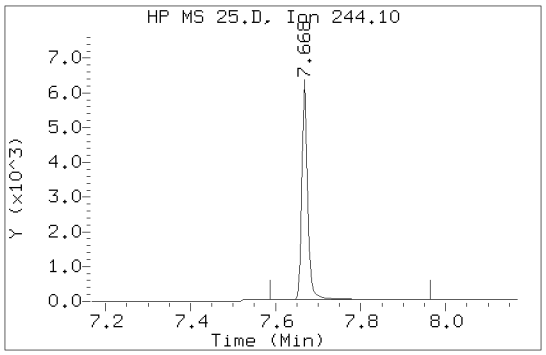
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
368
HEIGHT
51
21-Jun-2024
19:35
ALSHS
Server



AFTER
MASS
244.1
AREA
6076
HEIGHT
6329
22-Jun-2024
14:11



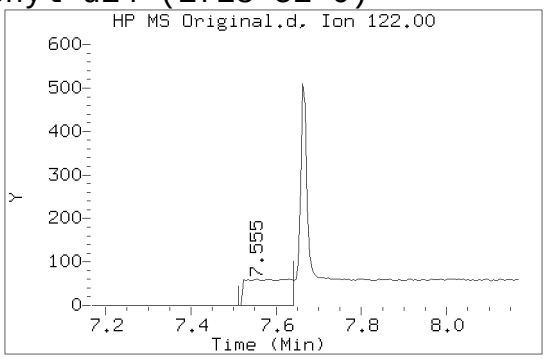
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\25.D
Inj Date : 21-JUN-2024 19:18
InstruID : SV6.i
LabSampID : HS24060899-05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

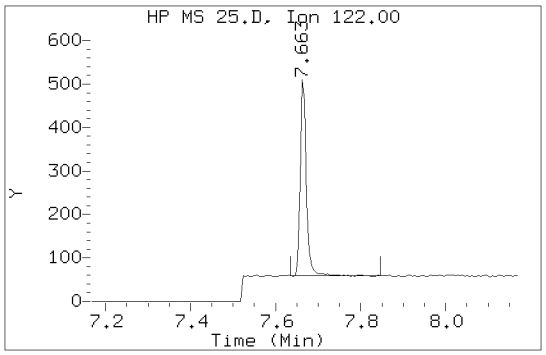
BEFORE

MASS
122
AREA
433
HEIGHT
60
21-Jun-2024
19:35
ALSHS
Server



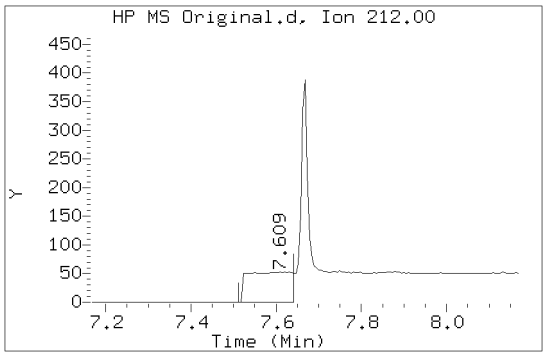
AFTER

MASS
122
AREA
453
HEIGHT
451
22-Jun-2024
14:11



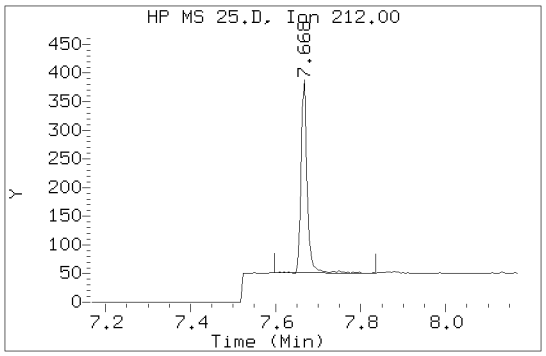
BEFORE

MASS
212
AREA
381
HEIGHT
53
21-Jun-2024
19:35
ALSHS
Server



AFTER

MASS
212
AREA
339
HEIGHT
336
22-Jun-2024
14:11

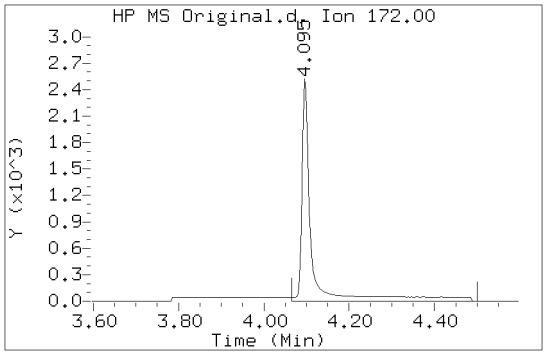


2-Fluorobiphenyl (321-60-8)

Reason Code:

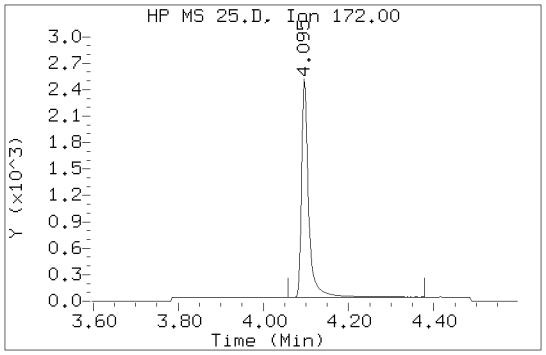
BEFORE

MASS
172
AREA
4021
HEIGHT
2522
21-Jun-2024
19:35
ALSHS
Server



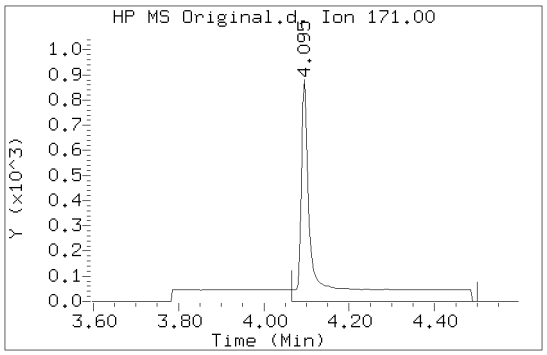
AFTER

MASS
172
AREA
2808
HEIGHT
2475
22-Jun-2024
14:11



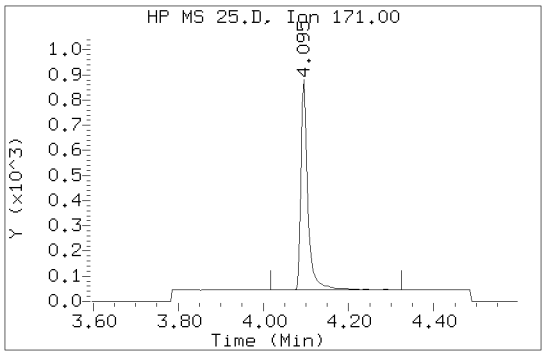
BEFORE

MASS
171
AREA
2120
HEIGHT
881
21-Jun-2024
19:35
ALSHS
Server



AFTER

MASS
171
AREA
943
HEIGHT
835
22-Jun-2024
14:11



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\26.D Page 1
Report Date: 22-Jun-2024 14:12

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\26.D
Lab Smp Id: HS24060899-06
Inj Date : 21-JUN-2024 19:36
Operator : LG Inst ID: SV6.i
Smp Info : HS24060899-06
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.119	2.113	(1.000)	2716	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.106	3.106	(1.000)	5915	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.813)	1074	0.06048	0.06048(M)
* 86 Acenaphthene-d10	164	4.703	4.703	(1.000)	3636	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.098	4.098	(0.871)	3610	0.06495	0.06495(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	7068	0.10000	
* 182 Chrysene-d12	240	8.642	8.641	(1.000)	6637	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.887)	6897	0.05101	0.05101(M)
* 198 Perylene-d12	264	10.244	10.250	(1.000)	6692	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\26.D

Date : 21-JUN-2024 19:36

Client ID:

Instrument: SV6.i

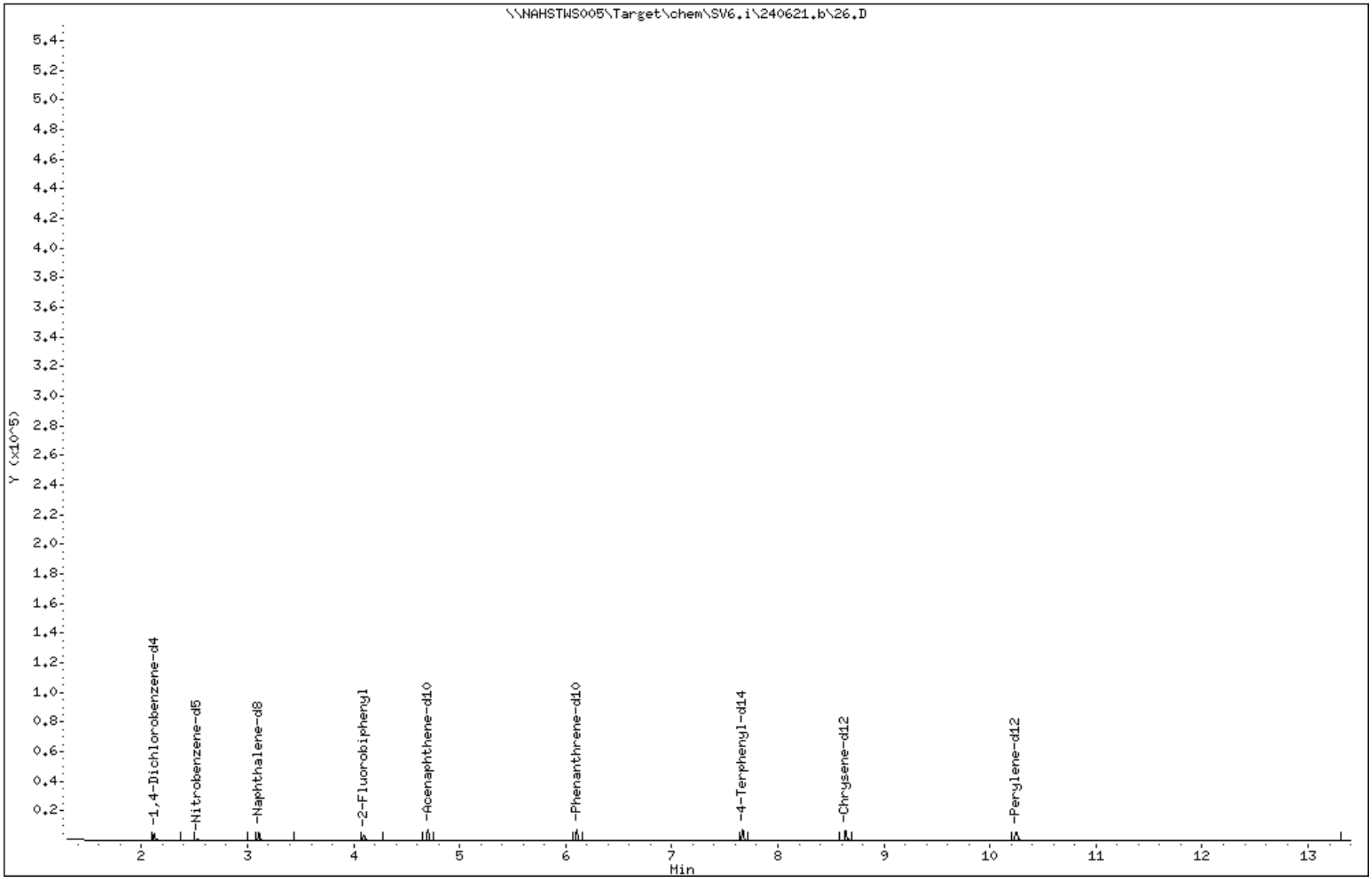
Sample Info: HS24060899-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

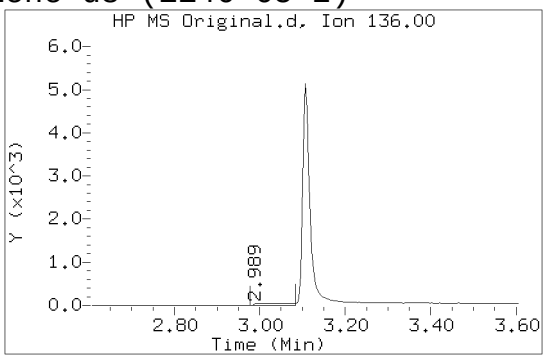


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Inj Date : 21-JUN-2024 19:36
InstruID : SV6.i
LabSampID : HS24060899-06

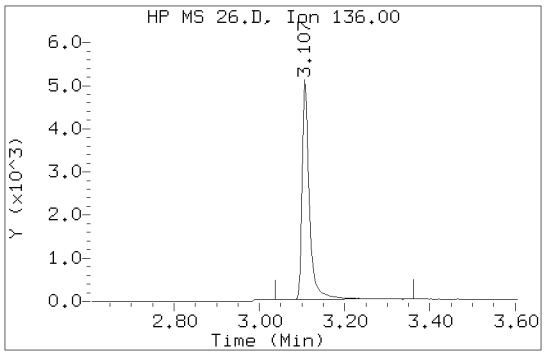
Naphthalene-d8 (1146-65-2)

Reason Code:

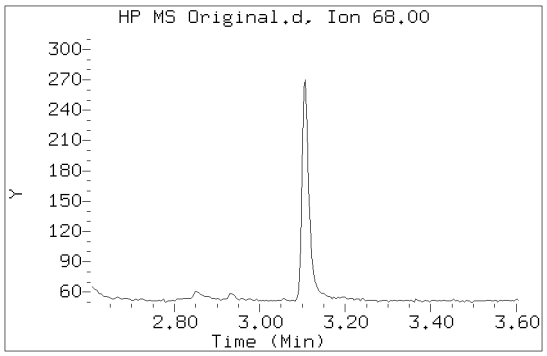
BEFORE
MASS
136
AREA
296
HEIGHT
49
21-Jun-2024
19:51
ALSHS
Server



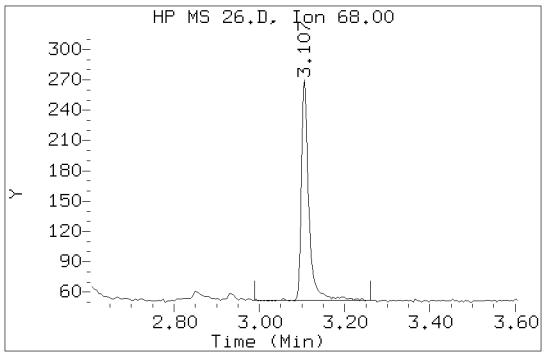
AFTER
MASS
136
AREA
5915
HEIGHT
5089
22-Jun-2024
14:12



BEFORE
MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
19:51
ALSHS
Server



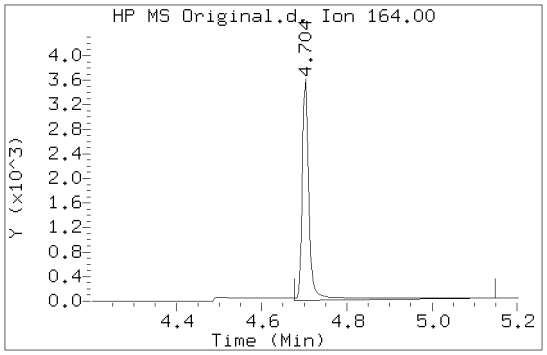
AFTER
MASS
68
AREA
259
HEIGHT
218
22-Jun-2024
14:12



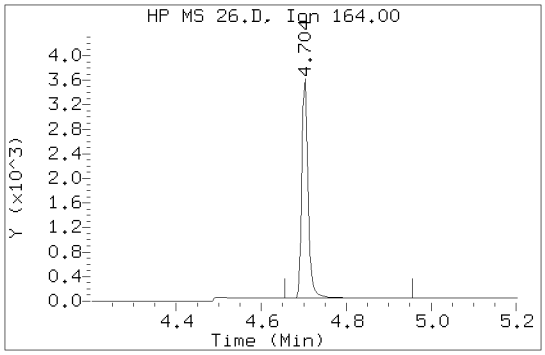
Acenaphthene-d10 (15067-26-2)

Reason Code:

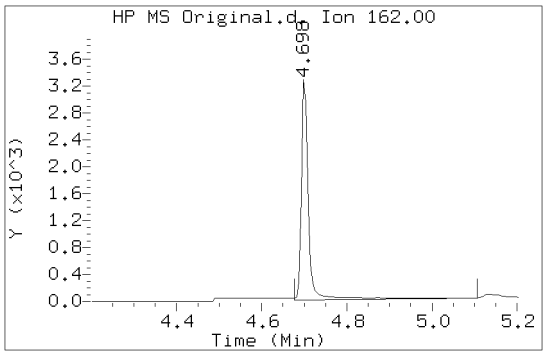
BEFORE
MASS
164
AREA
4164
HEIGHT
3604
21-Jun-2024
19:51
ALSHS
Server



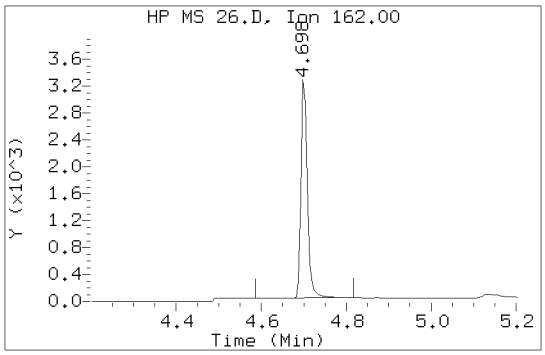
AFTER
MASS
164
AREA
3636
HEIGHT
3571
22-Jun-2024
14:12



BEFORE
MASS
162
AREA
3814
HEIGHT
3279
21-Jun-2024
19:51
ALSHS
Server



AFTER
MASS
162
AREA
3317
HEIGHT
3244
22-Jun-2024
14:12

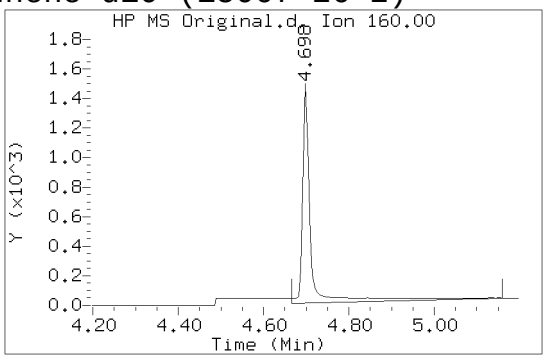


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Inj Date : 21-JUN-2024 19:36
InstruID : SV6.i
LabSampID : HS24060899-06

Acenaphthene-d10 (15067-26-2)

BEFORE

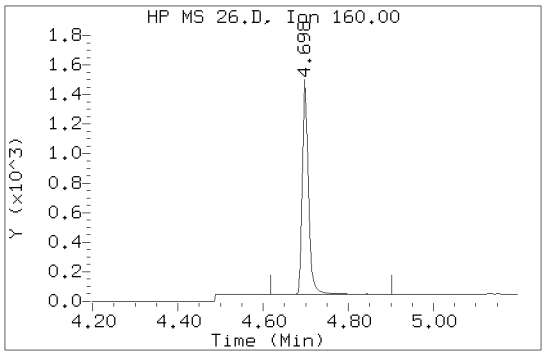
MASS
160
AREA
1977
HEIGHT
1485
21-Jun-2024
19:51
ALSHS
Server



AFTER

MASS
160
AREA
1430
HEIGHT
1453
22-Jun-2024
14:12

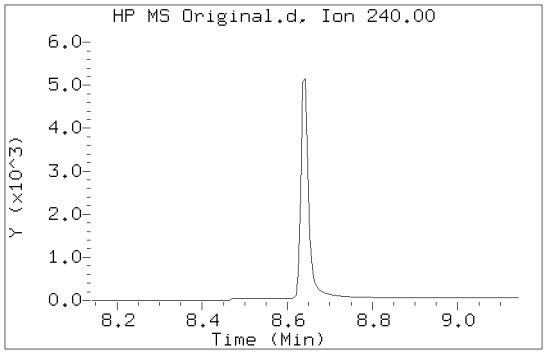
Reason Code:



Chrysene-d12 (1719-03-5)

BEFORE

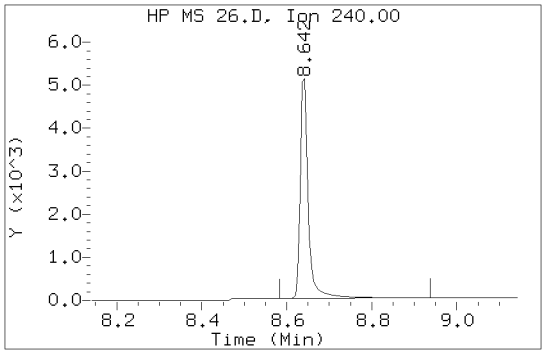
MASS
240
AREA
0
HEIGHT
0
21-Jun-2024
19:51
ALSHS
Server



AFTER

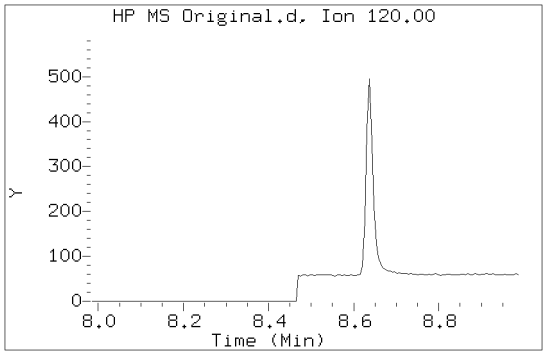
MASS
240
AREA
6637
HEIGHT
5101
22-Jun-2024
14:12

Reason Code:



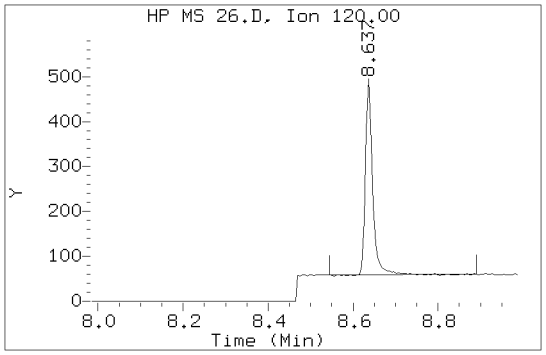
BEFORE

MASS
120
AREA
0
HEIGHT
0
21-Jun-2024
19:51
ALSHS
Server



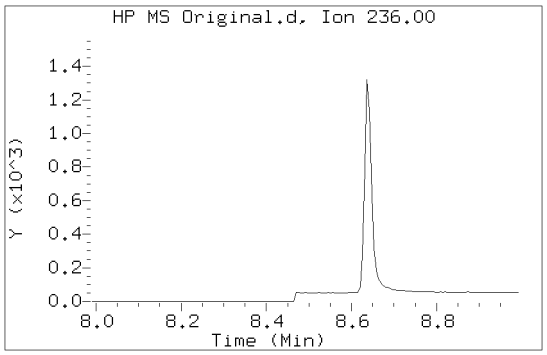
AFTER

MASS
120
AREA
498
HEIGHT
436
22-Jun-2024
14:12



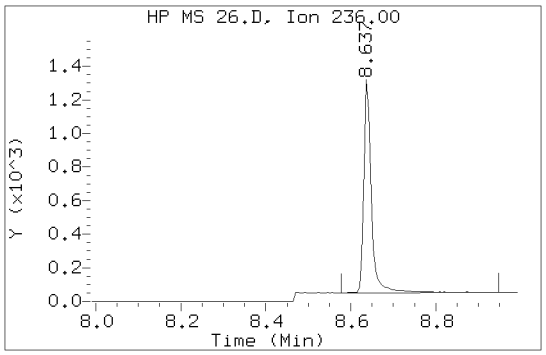
BEFORE

MASS
236
AREA
0
HEIGHT
0
21-Jun-2024
19:51
ALSHS
Server



AFTER

MASS
236
AREA
1564
HEIGHT
1269
22-Jun-2024
14:12



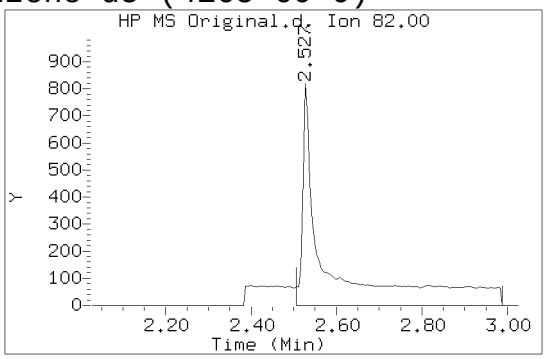
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\26.D
Inj Date : 21-JUN-2024 19:36
InstruID : SV6.i
LabSampID : HS24060899-06

Nitrobenzene-d5 (4165-60-0)

Reason Code:

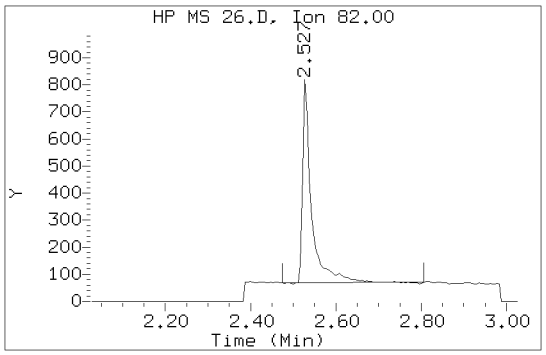
BEFORE

MASS
82
AREA
3079
HEIGHT
819
21-Jun-2024
19:51
ALSHS
Server



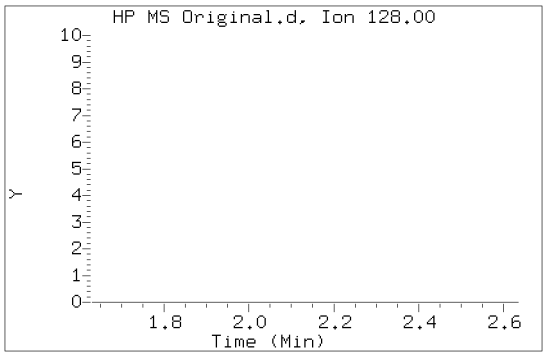
AFTER

MASS
82
AREA
1074
HEIGHT
750
22-Jun-2024
14:12



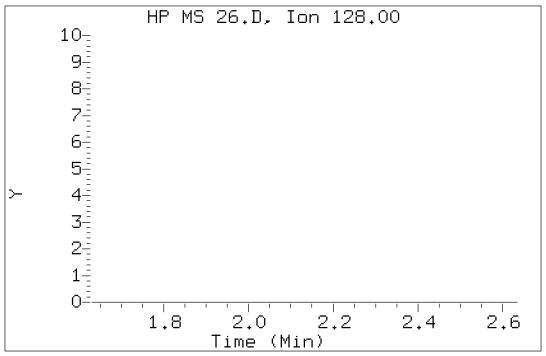
BEFORE

MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
19:51
ALSHS
Server



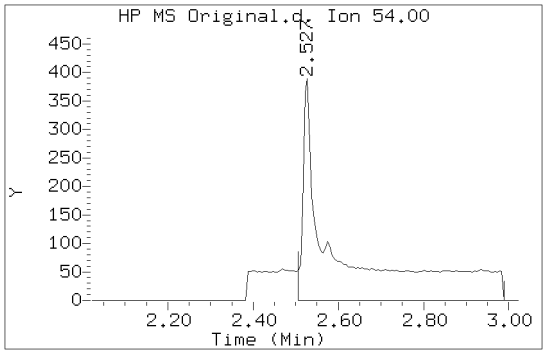
AFTER

MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
14:12



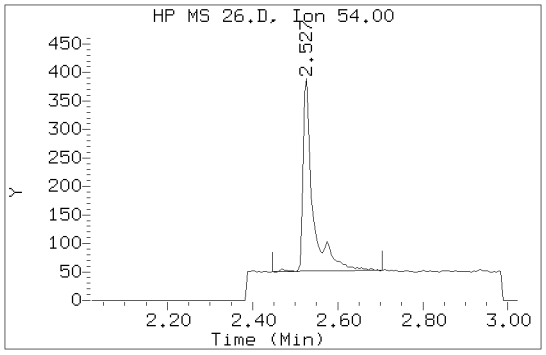
BEFORE

MASS
54
AREA
2042
HEIGHT
389
21-Jun-2024
19:51
ALSHS
Server



AFTER

MASS
54
AREA
544
HEIGHT
337
22-Jun-2024
14:12

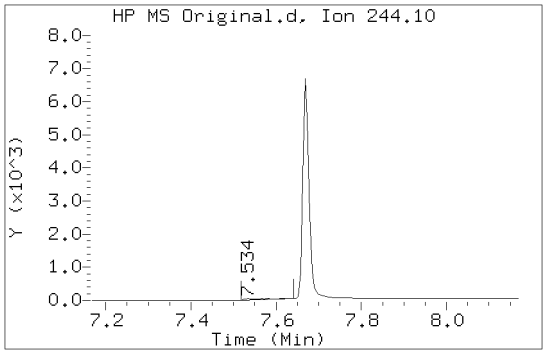


4-Terphenyl-d14 (1718-51-0)

Reason Code:

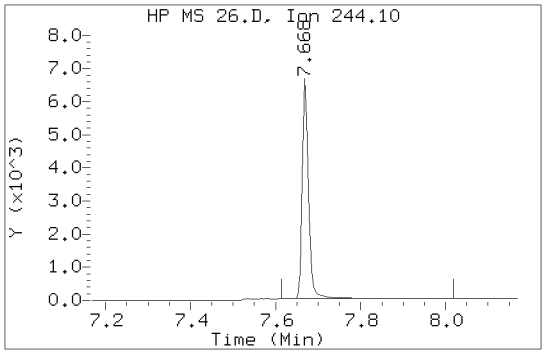
BEFORE

MASS
244.1
AREA
169
HEIGHT
42
21-Jun-2024
19:51
ALSHS
Server



AFTER

MASS
244.1
AREA
6897
HEIGHT
6643
22-Jun-2024
14:12



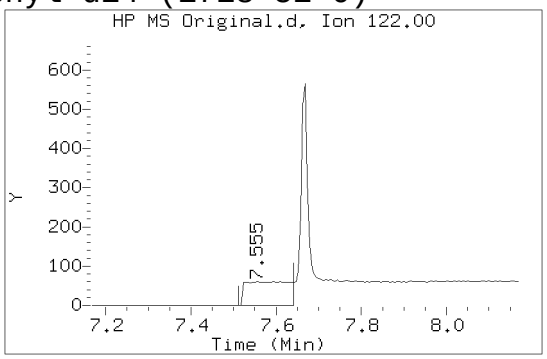
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\26.D
Inj Date : 21-JUN-2024 19:36
InstruID : SV6.i
LabSampID : HS24060899-06

4-Terphenyl-d14 (1718-51-0)

Reason Code:

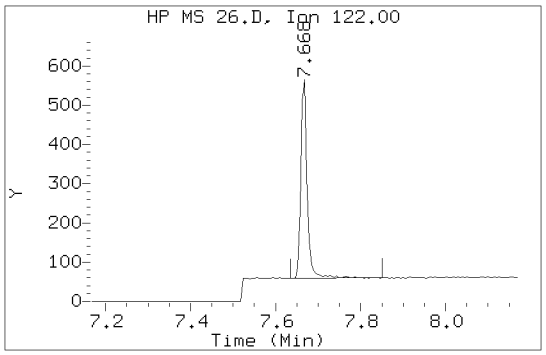
BEFORE

MASS
122
AREA
435
HEIGHT
60
21-Jun-2024
19:51
ALSHS
Server



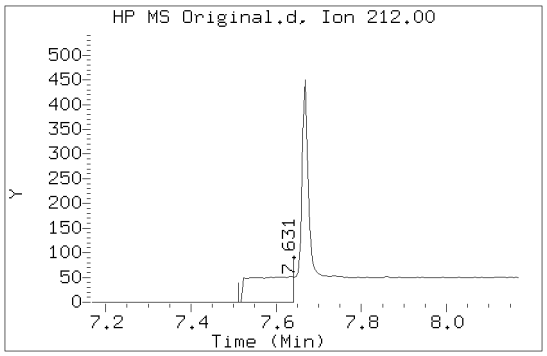
AFTER

MASS
122
AREA
536
HEIGHT
506
22-Jun-2024
14:12



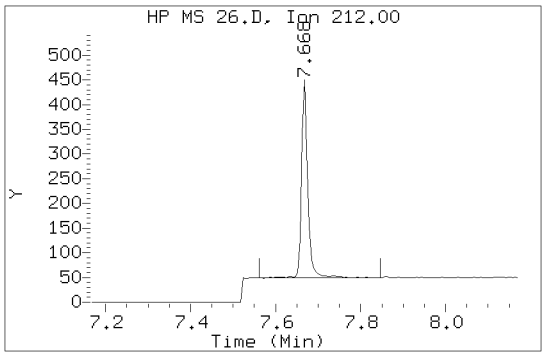
BEFORE

MASS
212
AREA
371
HEIGHT
52
21-Jun-2024
19:51
ALSHS
Server



AFTER

MASS
212
AREA
402
HEIGHT
400
22-Jun-2024
14:12

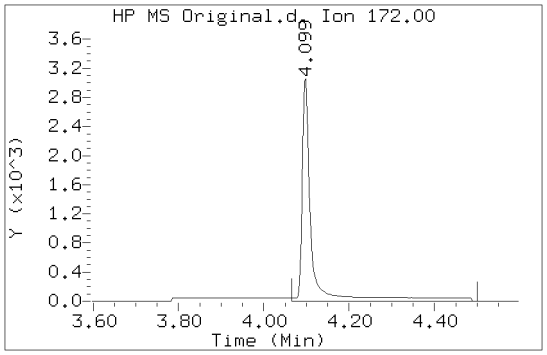


2-Fluorobiphenyl (321-60-8)

Reason Code:

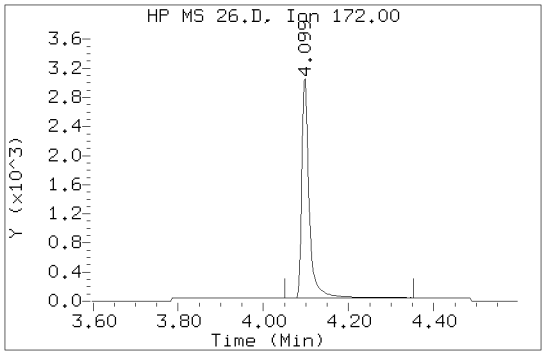
BEFORE

MASS
172
AREA
4845
HEIGHT
3055
21-Jun-2024
19:51
ALSHS
Server



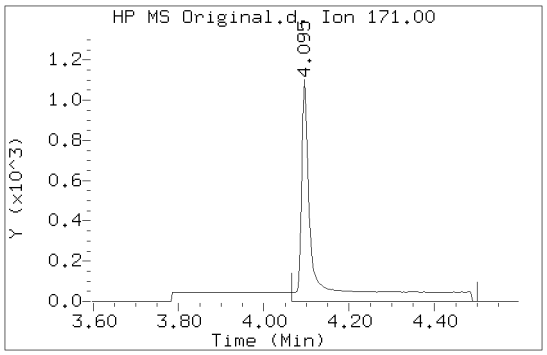
AFTER

MASS
172
AREA
3610
HEIGHT
3008
22-Jun-2024
14:12



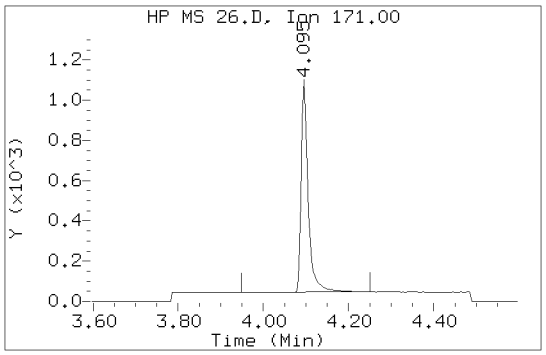
BEFORE

MASS
171
AREA
2396
HEIGHT
1102
21-Jun-2024
19:51
ALSHS
Server



AFTER

MASS
171
AREA
1186
HEIGHT
1055
22-Jun-2024
14:12



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\27.D Page 1
Report Date: 22-Jun-2024 14:12

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\27.D
Lab Smp Id: HS24060899-07
Inj Date : 21-JUN-2024 19:53
Operator : LG Inst ID: SV6.i
Smp Info : HS24060899-07
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.119	2.113	(1.000)	2369	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.106	3.106	(1.000)	4648	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.813)	892	0.06393	0.06393(M)
* 86 Acenaphthene-d10	164	4.703	4.703	(1.000)	2951	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.099	4.098	(0.871)	2931	0.06497	0.06497(M)
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	5650	0.10000	
* 182 Chrysene-d12	240	8.642	8.641	(1.000)	5217	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.887)	6169	0.05805	0.05804(M)
* 198 Perylene-d12	264	10.250	10.250	(1.000)	5283	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\27.D

Date : 21-JUN-2024 19:53

Client ID:

Instrument: SV6.i

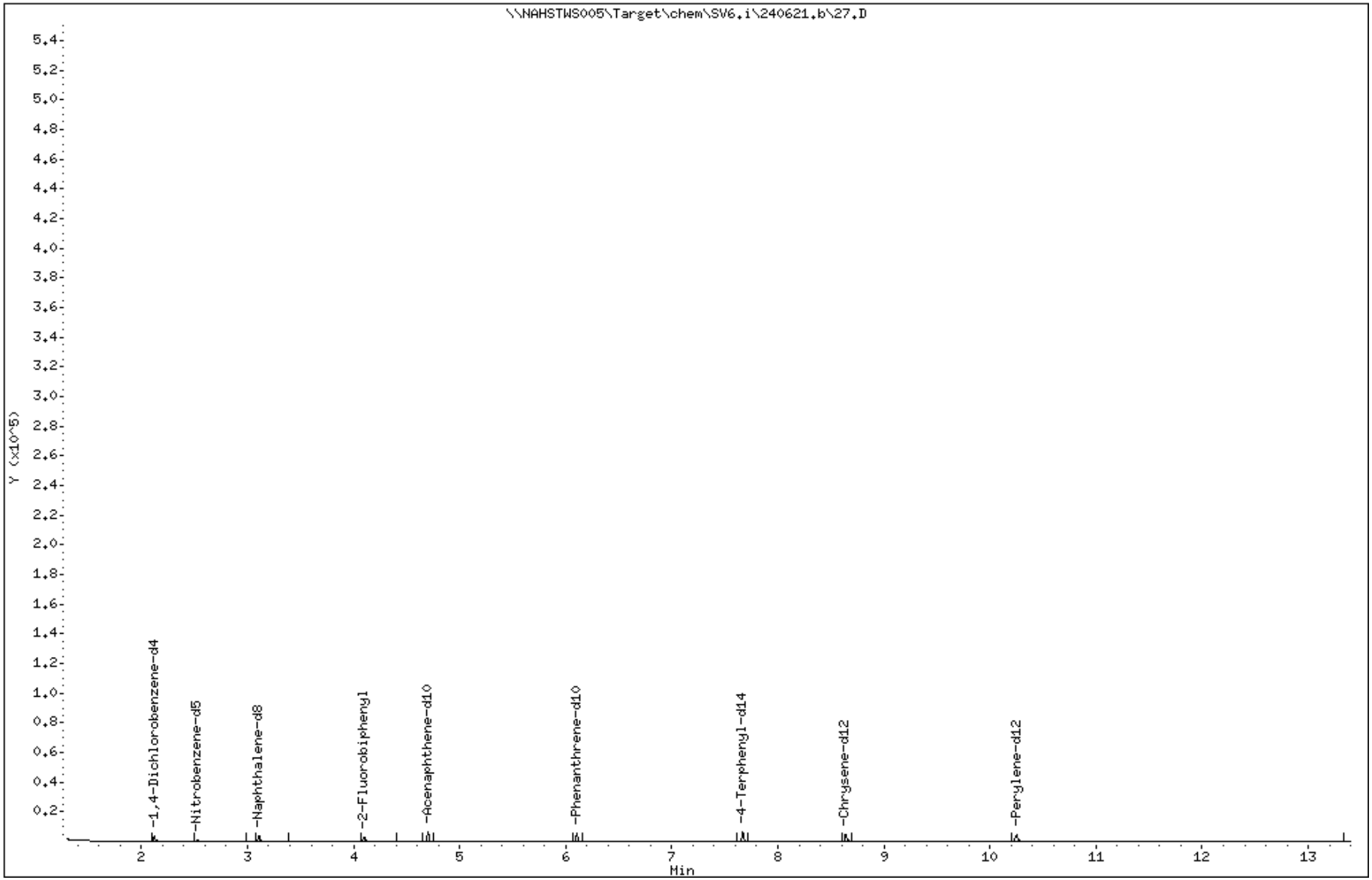
Sample Info: HS24060899-07

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

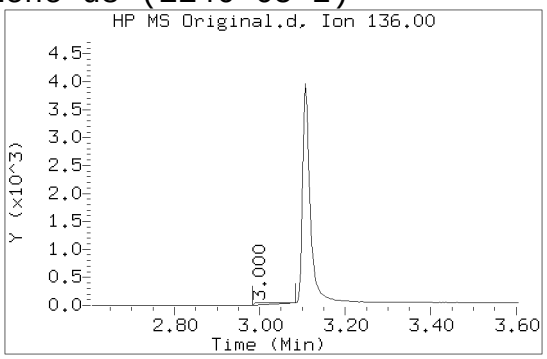


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\27.D
Inj Date : 21-JUN-2024 19:53
InstruID : SV6.i
LabSampID : HS24060899-07

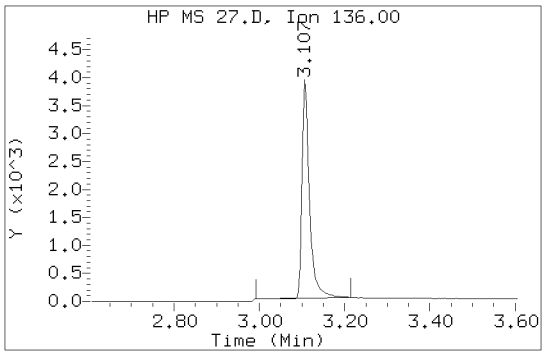
Naphthalene-d8 (1146-65-2)

Reason Code:

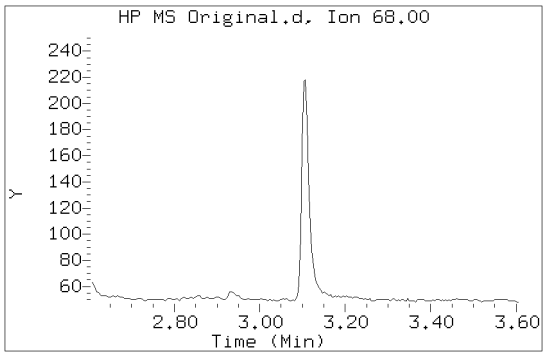
BEFORE
MASS
136
AREA
135
HEIGHT
40
21-Jun-2024
20:09
ALSHS
Server



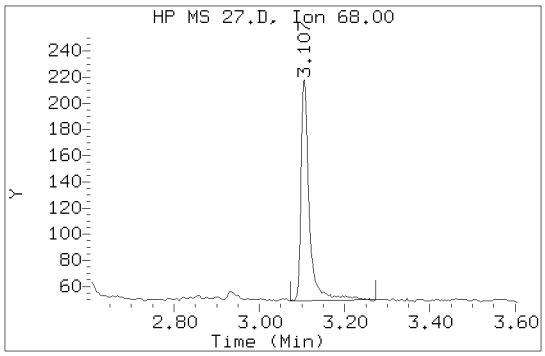
AFTER
MASS
136
AREA
4648
HEIGHT
3905
22-Jun-2024
14:12



BEFORE
MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
20:09
ALSHS
Server



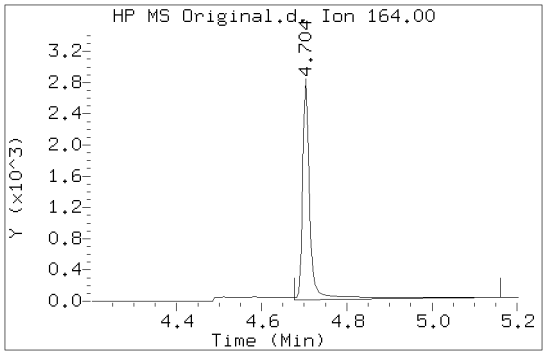
AFTER
MASS
68
AREA
225
HEIGHT
168
22-Jun-2024
14:12



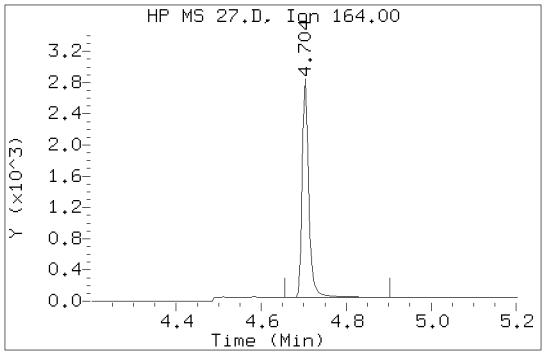
Acenaphthene-d10 (15067-26-2)

Reason Code:

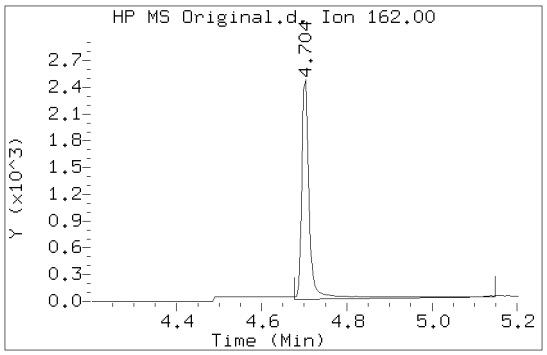
BEFORE
MASS
164
AREA
3487
HEIGHT
2831
21-Jun-2024
20:09
ALSHS
Server



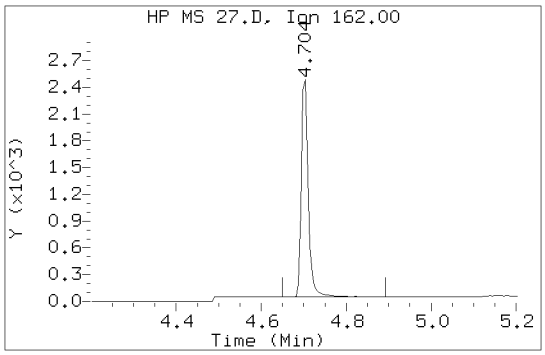
AFTER
MASS
164
AREA
2951
HEIGHT
2797
22-Jun-2024
14:12



BEFORE
MASS
162
AREA
3230
HEIGHT
2465
21-Jun-2024
20:09
ALSHS
Server



AFTER
MASS
162
AREA
2734
HEIGHT
2436
22-Jun-2024
14:12



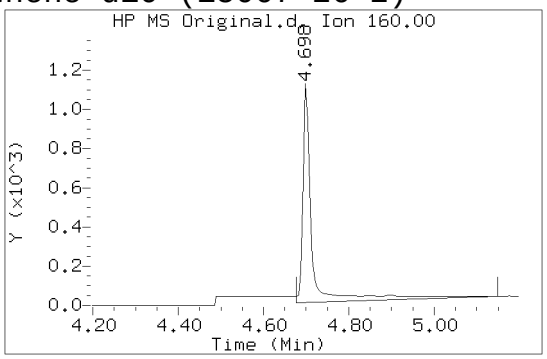
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\27.D
Inj Date : 21-JUN-2024 19:53
InstruID : SV6.i
LabSampID : HS24060899-07

Acenaphthene-d10 (15067-26-2)

Reason Code:

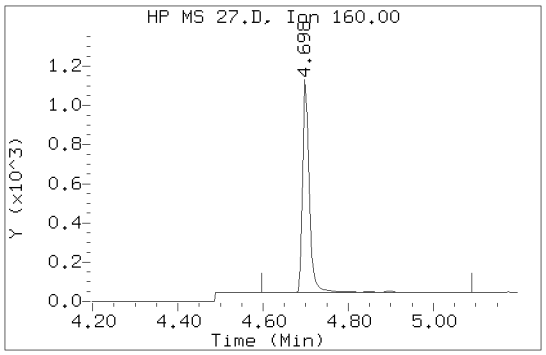
BEFORE

MASS
160
AREA
1652
HEIGHT
1116
21-Jun-2024
20:09
ALSHS
Server



AFTER

MASS
160
AREA
1162
HEIGHT
1084
22-Jun-2024
14:12

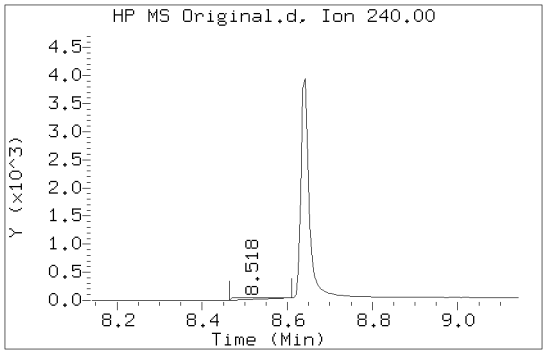


Chrysene-d12 (1719-03-5)

Reason Code:

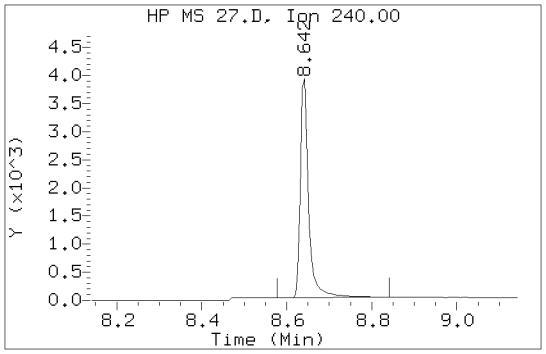
BEFORE

MASS
240
AREA
193
HEIGHT
30
21-Jun-2024
20:09
ALSHS
Server



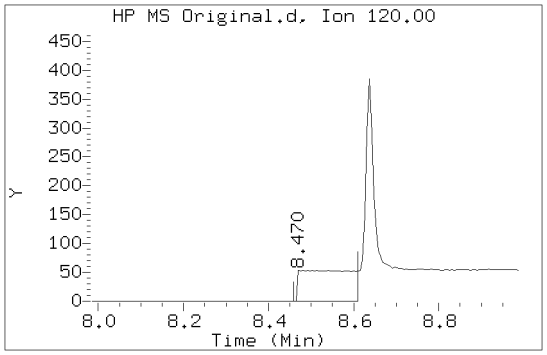
AFTER

MASS
240
AREA
5217
HEIGHT
3894
22-Jun-2024
14:12



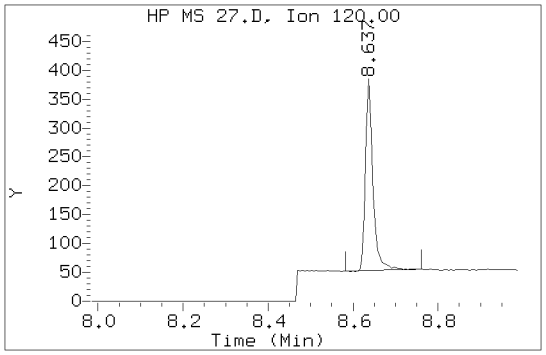
BEFORE

MASS
120
AREA
454
HEIGHT
53
21-Jun-2024
20:09
ALSHS
Server



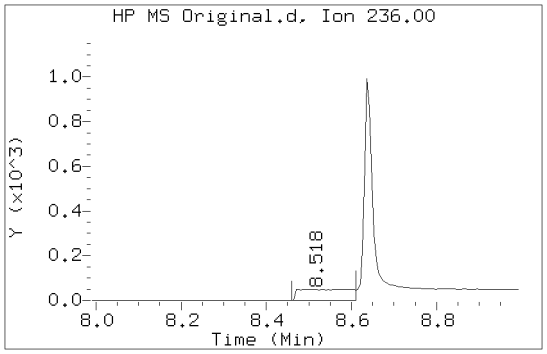
AFTER

MASS
120
AREA
394
HEIGHT
331
22-Jun-2024
14:12



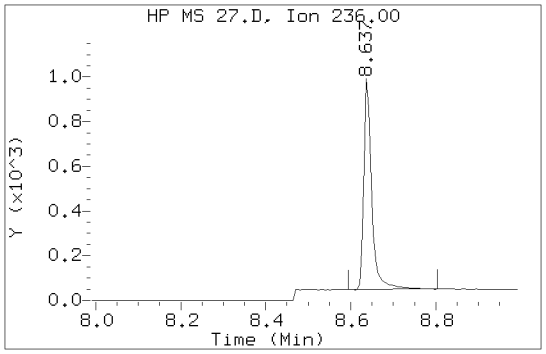
BEFORE

MASS
236
AREA
417
HEIGHT
49
21-Jun-2024
20:09
ALSHS
Server



AFTER

MASS
236
AREA
1202
HEIGHT
943
22-Jun-2024
14:12

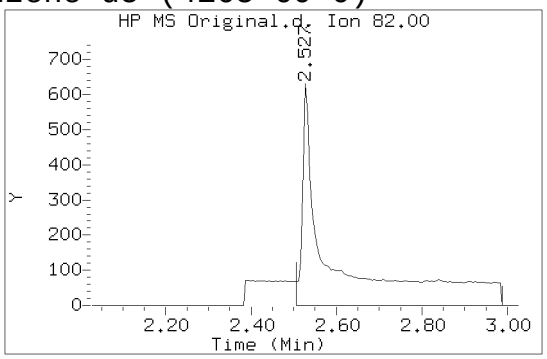


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Inj Date : 21-JUN-2024 19:53
InstruID : SV6.i
LabSampID : HS24060899-07

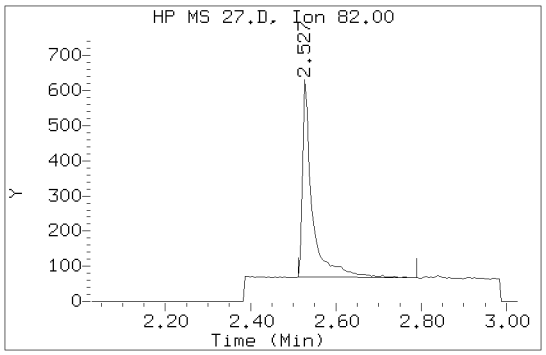
Nitrobenzene-d5 (4165-60-0)

Reason Code:

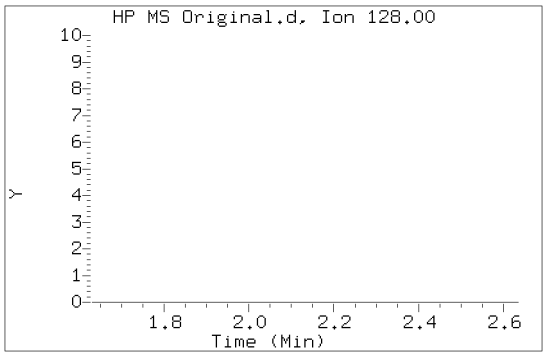
BEFORE
MASS
82
AREA
2854
HEIGHT
631
21-Jun-2024
20:09
ALSHS
Server



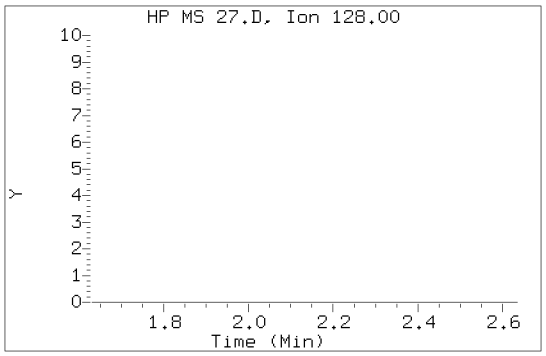
AFTER
MASS
82
AREA
892
HEIGHT
561
22-Jun-2024
14:12



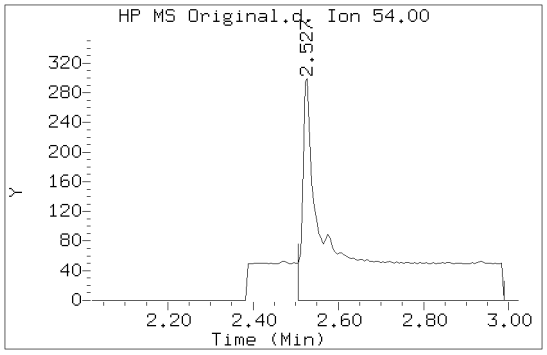
BEFORE
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
20:09
ALSHS
Server



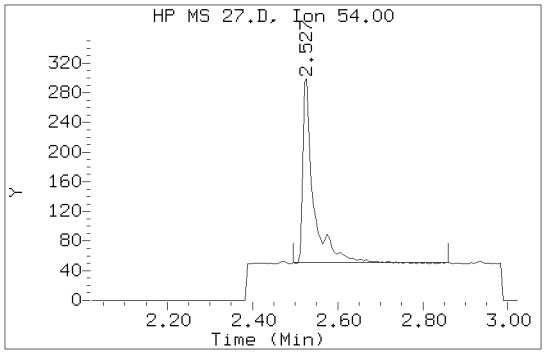
AFTER
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
14:12



BEFORE
MASS
54
AREA
1897
HEIGHT
299
21-Jun-2024
20:09
ALSHS
Server



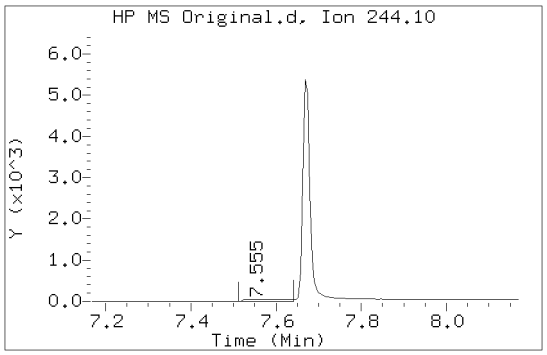
AFTER
MASS
54
AREA
427
HEIGHT
248
22-Jun-2024
14:12



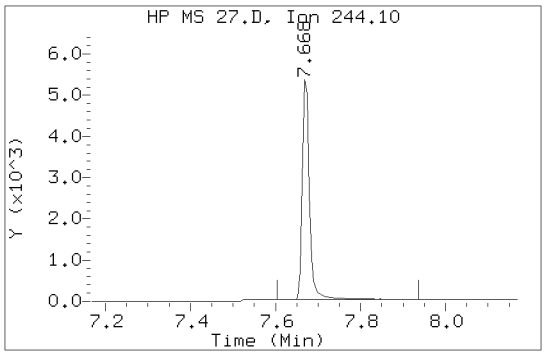
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
339
HEIGHT
47
21-Jun-2024
20:09
ALSHS
Server



AFTER
MASS
244.1
AREA
6169
HEIGHT
5331
22-Jun-2024
14:12

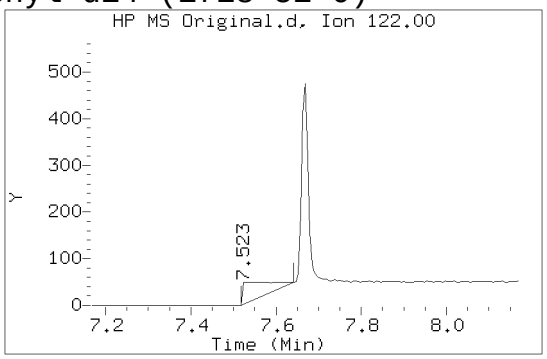


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\27.D
Inj Date : 21-JUN-2024 19:53
InstruID : SV6.i
LabSampID : HS24060899-07

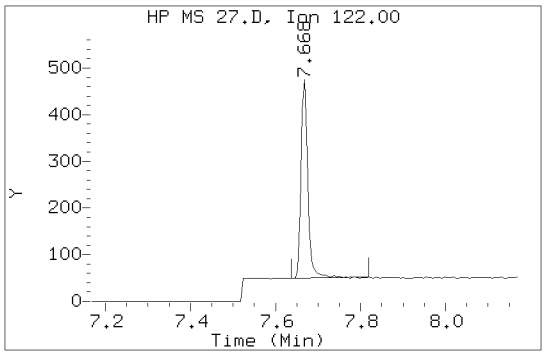
4-Terphenyl-d14 (1718-51-0)

Reason Code:

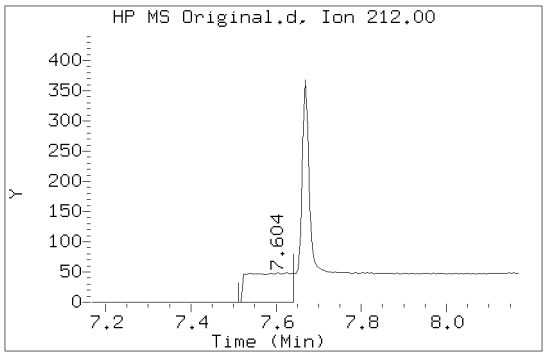
BEFORE
MASS
122
AREA
173
HEIGHT
47
21-Jun-2024
20:09
ALSHS
Server



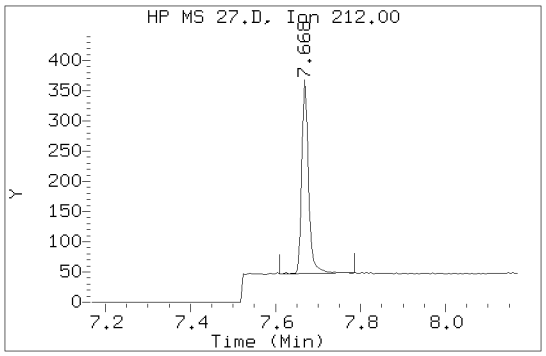
AFTER
MASS
122
AREA
459
HEIGHT
424
22-Jun-2024
14:12



BEFORE
MASS
212
AREA
350
HEIGHT
49
21-Jun-2024
20:09
ALSHS
Server



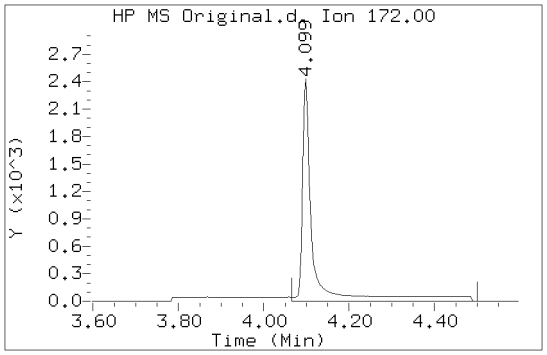
AFTER
MASS
212
AREA
345
HEIGHT
320
22-Jun-2024
14:12



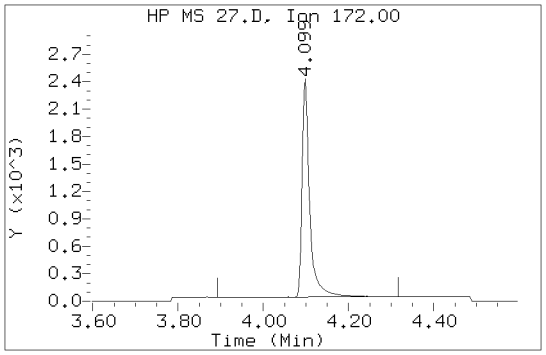
2-Fluorobiphenyl (321-60-8)

Reason Code:

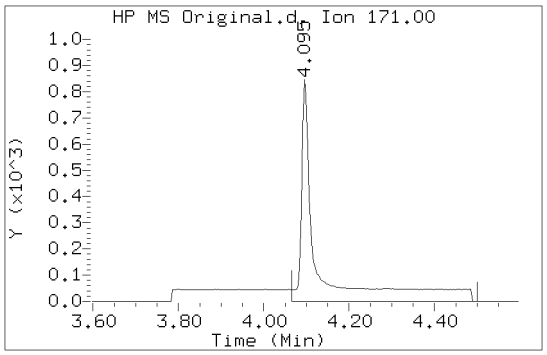
BEFORE
MASS
172
AREA
4169
HEIGHT
2430
21-Jun-2024
20:09
ALSHS
Server



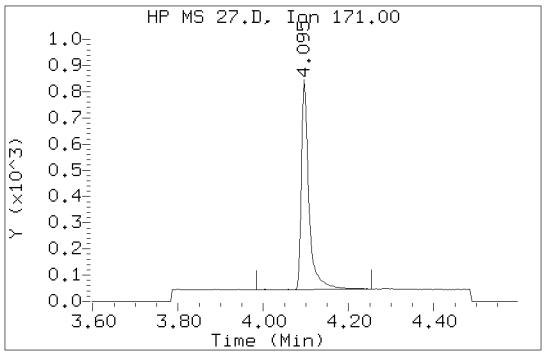
AFTER
MASS
172
AREA
2931
HEIGHT
2383
22-Jun-2024
14:12



BEFORE
MASS
171
AREA
2166
HEIGHT
846
21-Jun-2024
20:09
ALSHS
Server



AFTER
MASS
171
AREA
971
HEIGHT
800
22-Jun-2024
14:12



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D Page 1
Report Date: 22-Jun-2024 09:15

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 21-JUN-2024 20:10
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.113	2.113	(1.000)	1709	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.106	3.106	(1.000)	5716	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.813)	1213	0.08000	0.07069(M)
* 86 Acenaphthene-d10	164	4.703	4.703	(1.000)	3486	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.098	4.098	(0.871)	3976	0.08000	0.07461
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	6939	0.10000	(M)
* 182 Chrysene-d12	240	8.641	8.641	(1.000)	6776	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.887)	8875	0.08000	0.06429(M)
* 198 Perylene-d12	264	10.250	10.250	(1.000)	5691	0.10000	(M)
1 1,4-Dioxane	58	0.842	0.842	(0.398)	278	0.08000	0.07594(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D

Date : 21-JUN-2024 20:10

Client ID: 14DX-0.08

Instrument: SV6.i

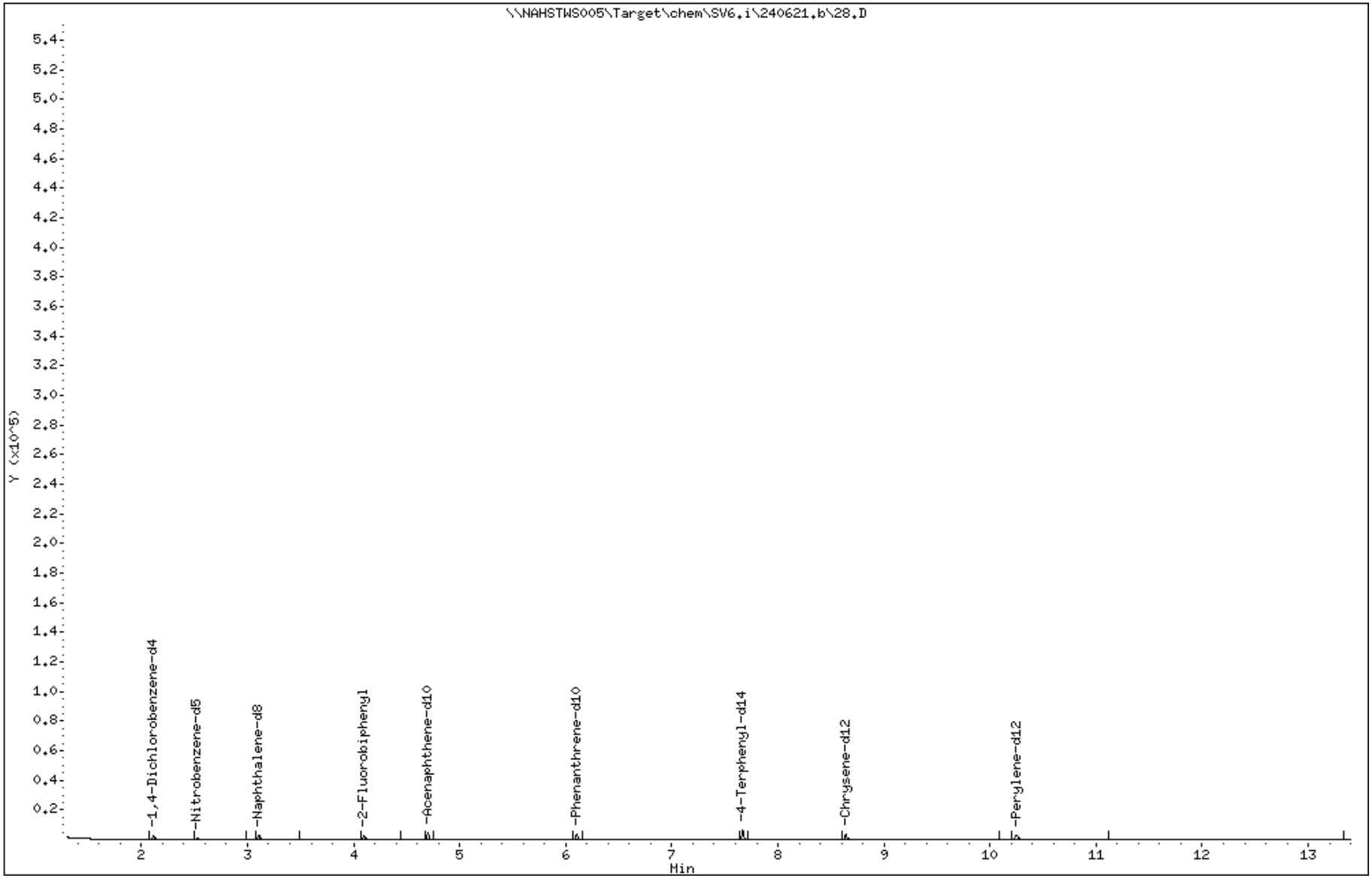
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

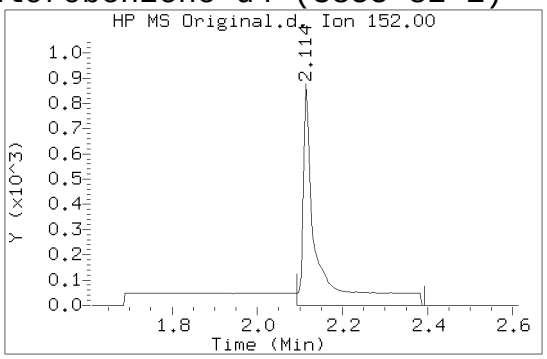


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

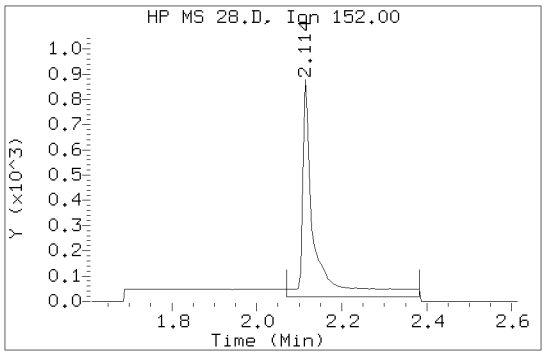
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

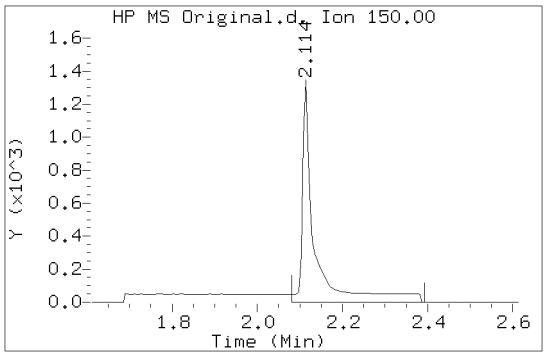
BEFORE
MASS
152
AREA
1990
HEIGHT
878
21-Jun-2024
20:25
ALSHS
Server



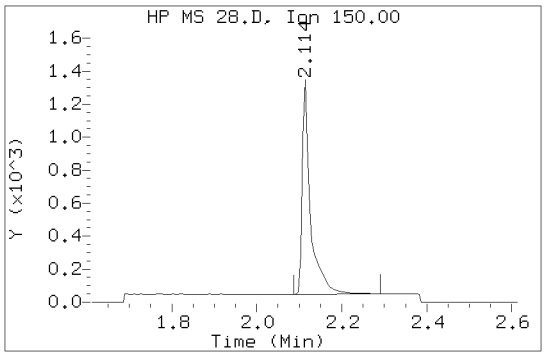
AFTER
MASS
152
AREA
1709
HEIGHT
860
22-Jun-2024
09:15



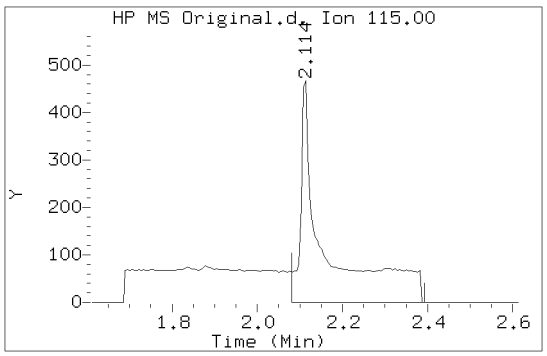
BEFORE
MASS
150
AREA
2677
HEIGHT
1347
21-Jun-2024
20:25
ALSHS
Server



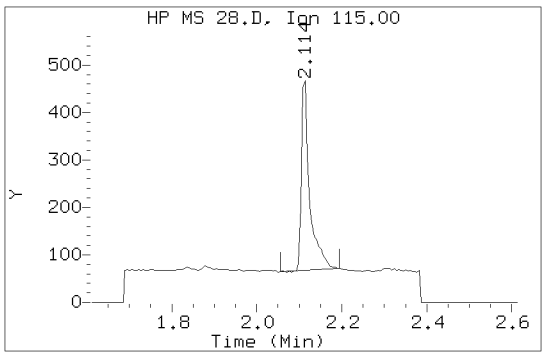
AFTER
MASS
150
AREA
1770
HEIGHT
1298
22-Jun-2024
09:15



BEFORE
MASS
115
AREA
1795
HEIGHT
467
21-Jun-2024
20:25
ALSHS
Server



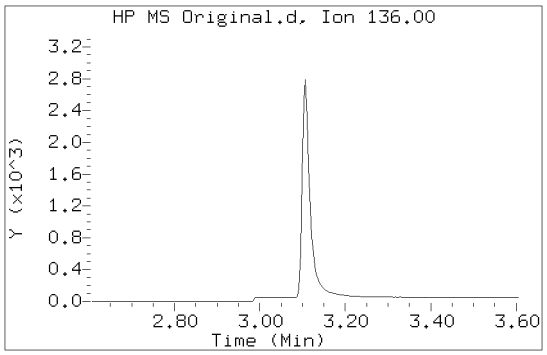
AFTER
MASS
115
AREA
545
HEIGHT
399
22-Jun-2024
09:15



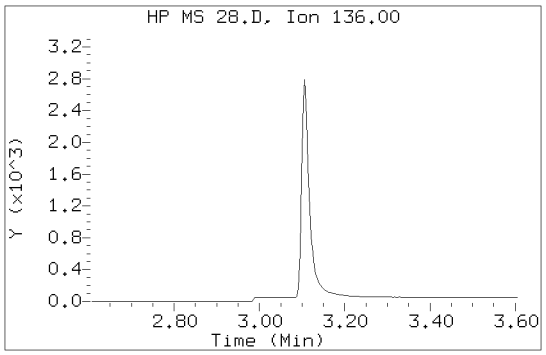
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



AFTER
MASS
136
AREA
5716
HEIGHT
2787
22-Jun-2024
09:15

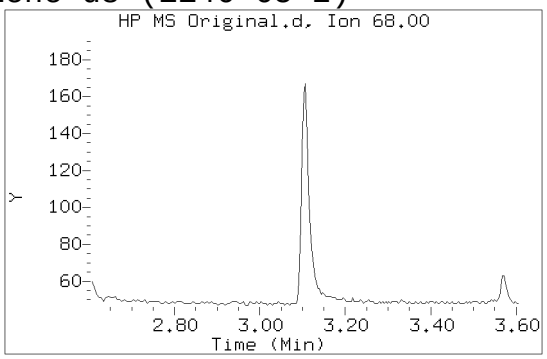


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Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

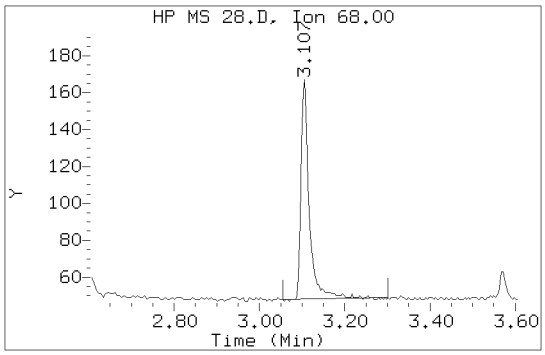
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



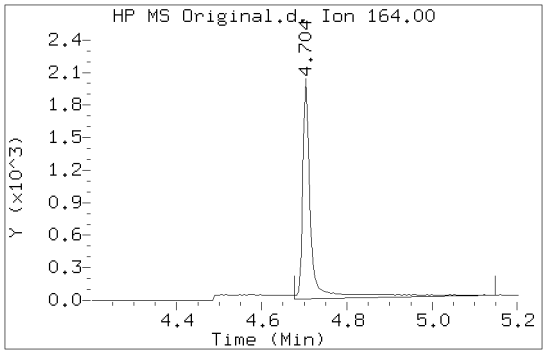
AFTER
MASS
68
AREA
155
HEIGHT
118
22-Jun-2024
09:15



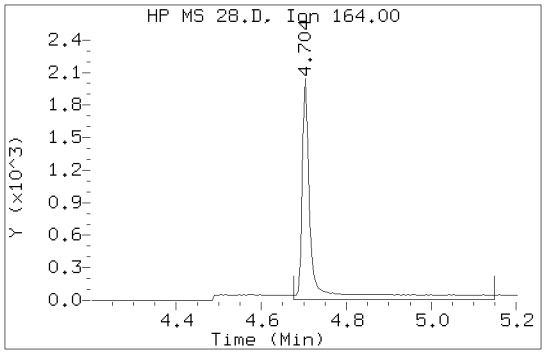
Acenaphthene-d10 (15067-26-2)

Reason Code:

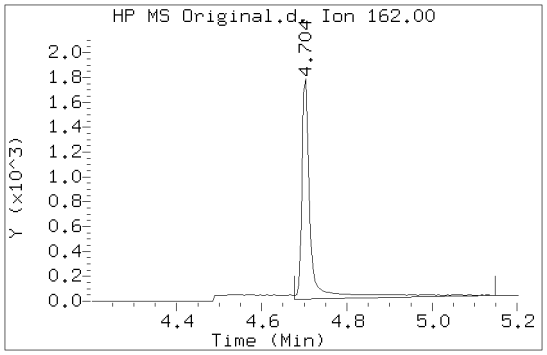
BEFORE
MASS
164
AREA
2713
HEIGHT
2027
21-Jun-2024
20:25
ALSHS
Server



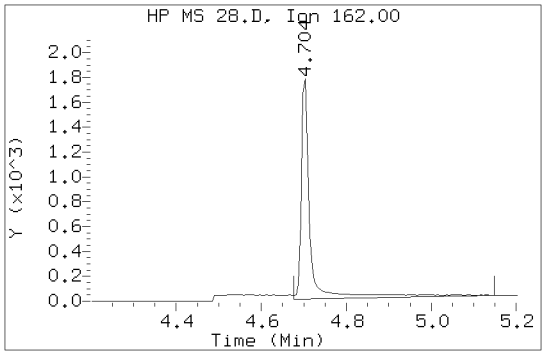
AFTER
MASS
164
AREA
3486
HEIGHT
2039
22-Jun-2024
09:15



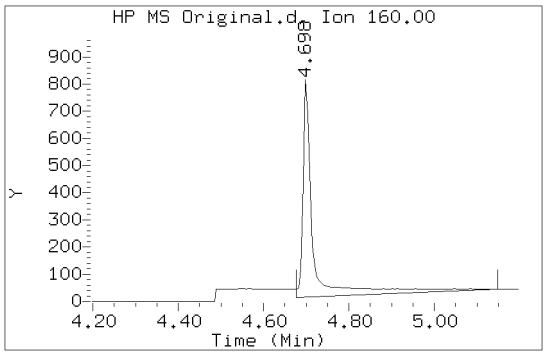
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MASS
162
AREA
2546
HEIGHT
1773
21-Jun-2024
20:25
ALSHS
Server



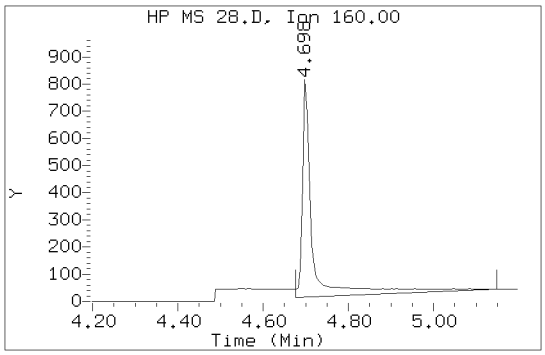
AFTER
MASS
162
AREA
2546
HEIGHT
1773
22-Jun-2024
09:15



BEFORE
MASS
160
AREA
1331
HEIGHT
801
21-Jun-2024
20:25
ALSHS
Server



AFTER
MASS
160
AREA
1331
HEIGHT
801
22-Jun-2024
09:15



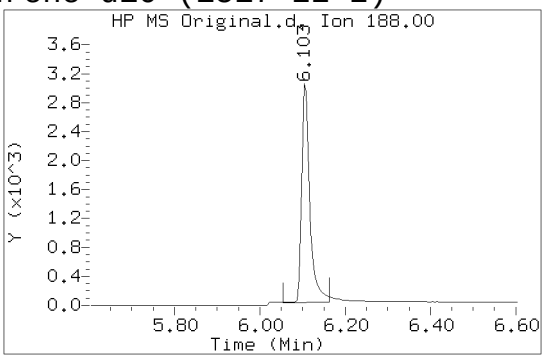
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

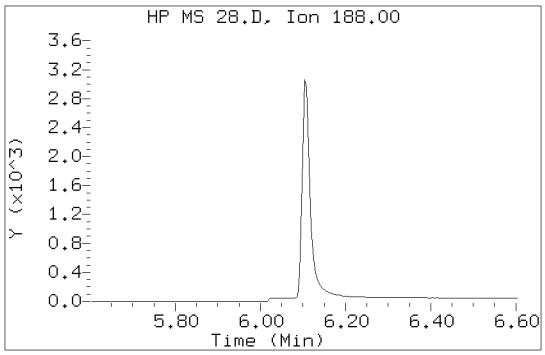
BEFORE

MASS
188
AREA
4004
HEIGHT
3021
21-Jun-2024
20:25
ALSHS
Server



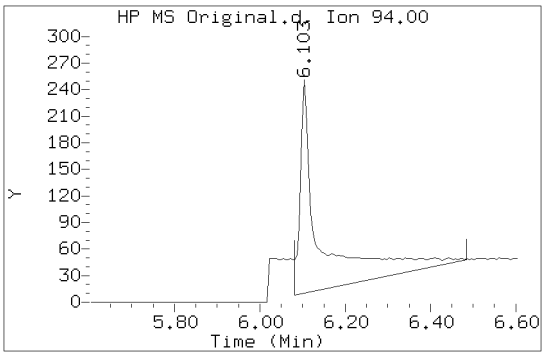
AFTER

MASS
188
AREA
6939
HEIGHT
3062
22-Jun-2024
09:15



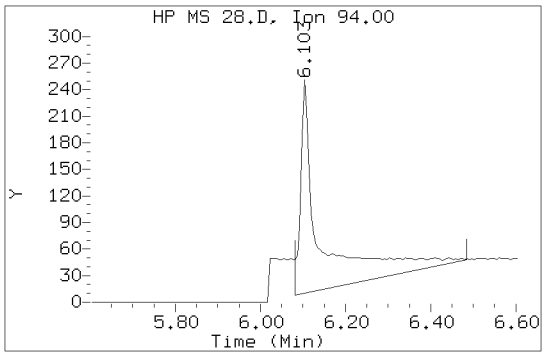
BEFORE

MASS
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AREA
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HEIGHT
240
21-Jun-2024
20:25
ALSHS
Server



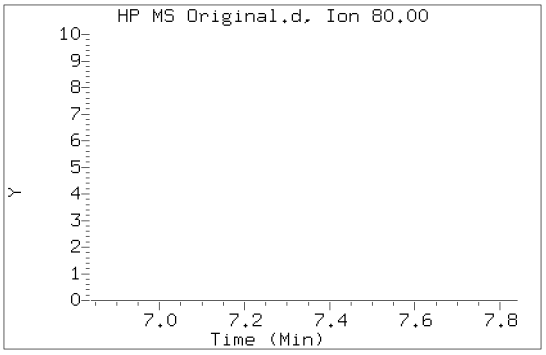
AFTER

MASS
94
AREA
775
HEIGHT
240
22-Jun-2024
09:15



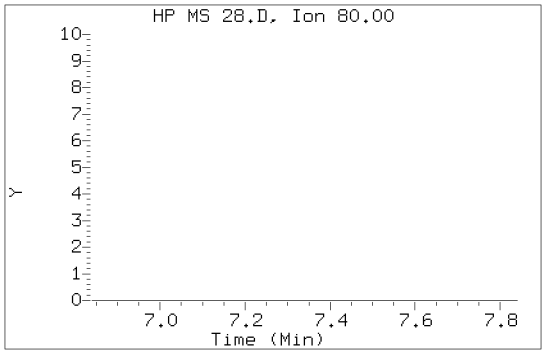
BEFORE

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
09:15

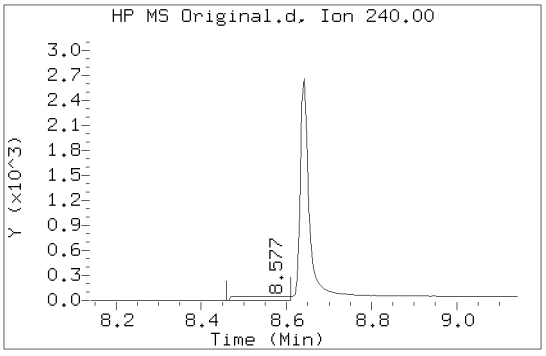


Chrysene-d12 (1719-03-5)

Reason Code:

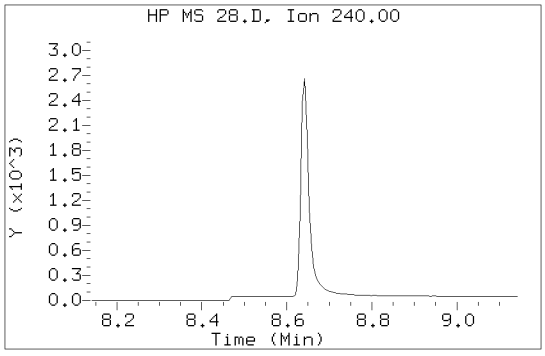
BEFORE

MASS
240
AREA
405
HEIGHT
49
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
240
AREA
6776
HEIGHT
2662
22-Jun-2024
09:15



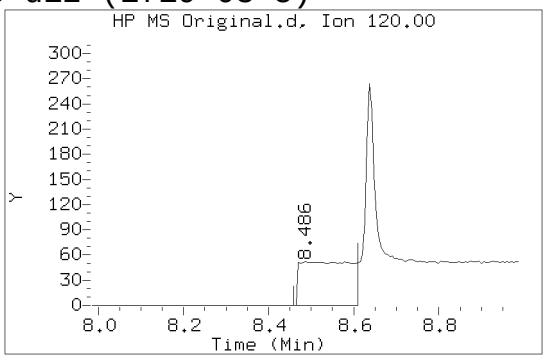
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

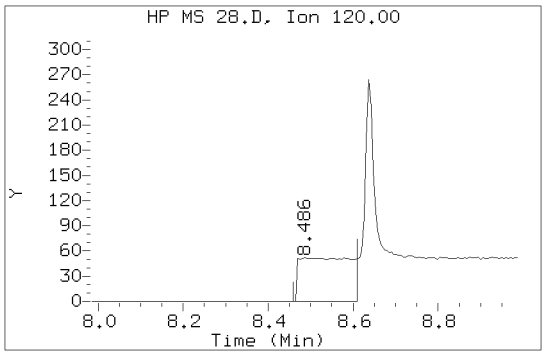
BEFORE

MASS
120
AREA
442
HEIGHT
52
21-Jun-2024
20:25
ALSHS
Server



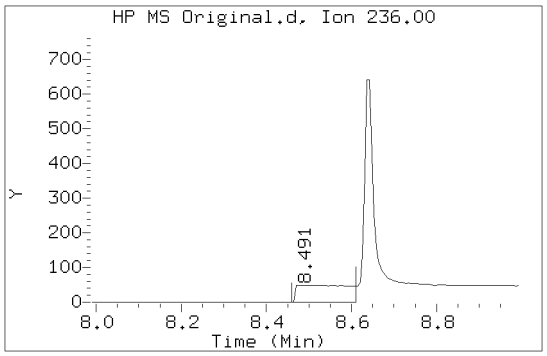
AFTER

MASS
120
AREA
442
HEIGHT
52
22-Jun-2024
09:15



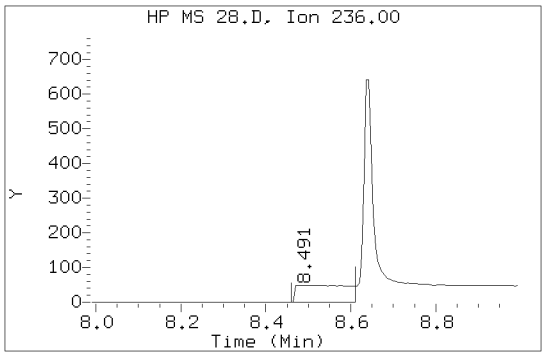
BEFORE

MASS
236
AREA
417
HEIGHT
49
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
236
AREA
417
HEIGHT
49
22-Jun-2024
09:15

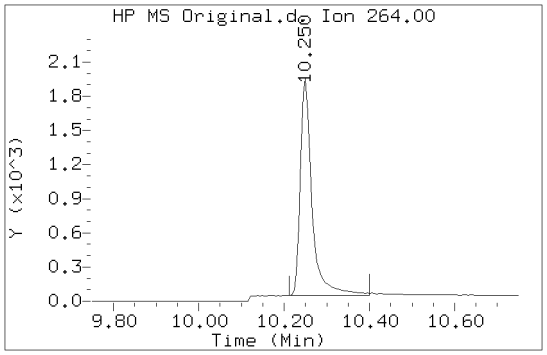


Perylene-d12 (1520-96-3)

Reason Code:

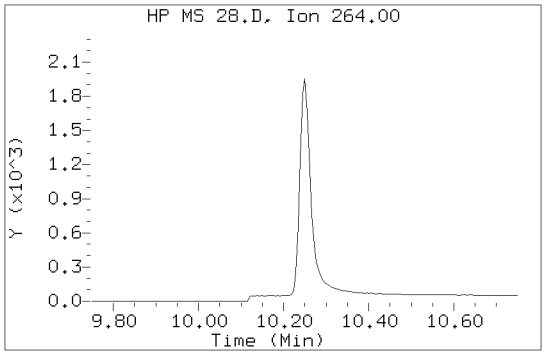
BEFORE

MASS
264
AREA
3660
HEIGHT
1903
21-Jun-2024
20:25
ALSHS
Server



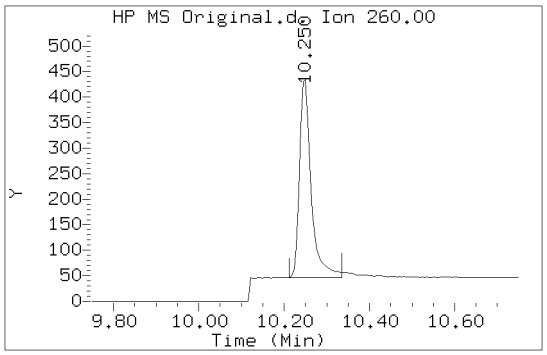
AFTER

MASS
264
AREA
5691
HEIGHT
1951
22-Jun-2024
09:15



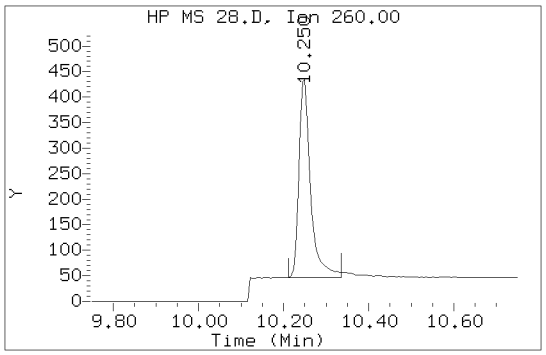
BEFORE

MASS
260
AREA
736
HEIGHT
387
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
260
AREA
736
HEIGHT
387
22-Jun-2024
09:15



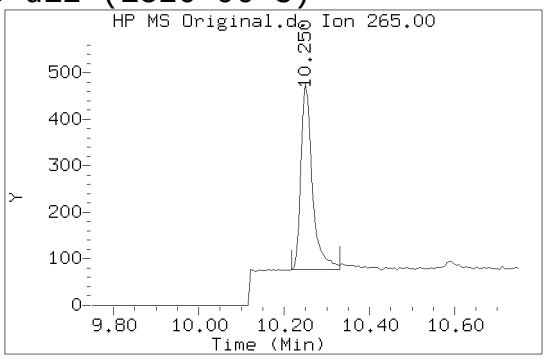
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

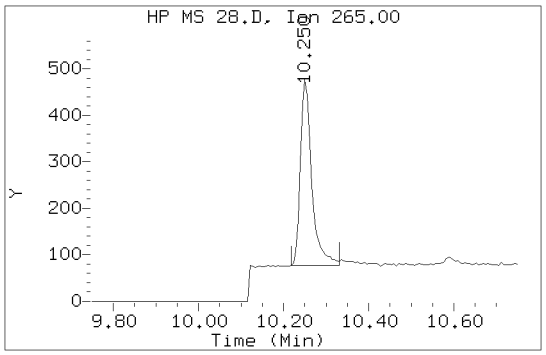
BEFORE

MASS
265
AREA
744
HEIGHT
400
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
265
AREA
744
HEIGHT
400
22-Jun-2024
09:15

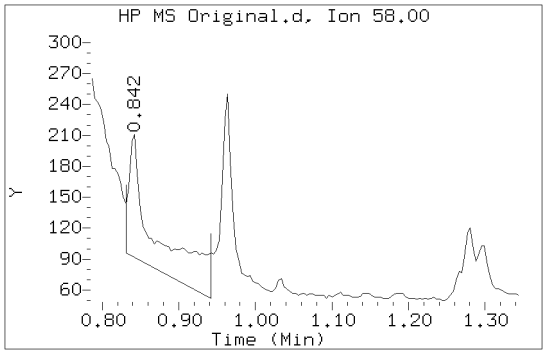


1,4-Dioxane ()

Reason Code:

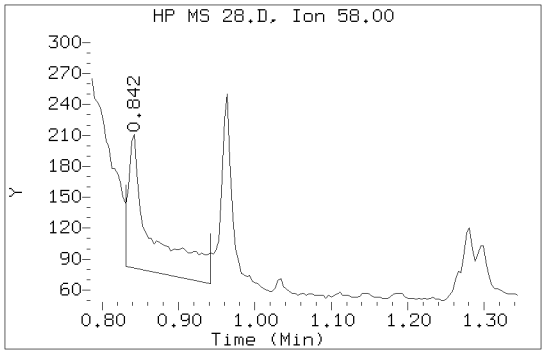
BEFORE

MASS
58
AREA
282
HEIGHT
119
21-Jun-2024
20:25
ALSHS
Server



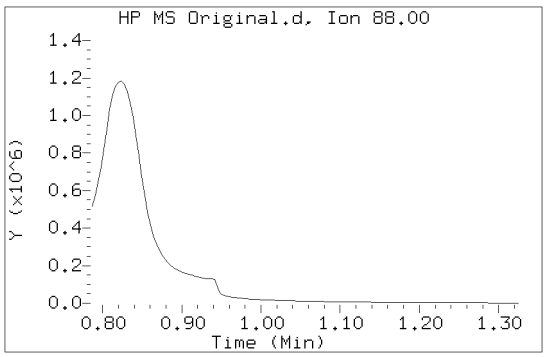
AFTER

MASS
58
AREA
278
HEIGHT
129
22-Jun-2024
09:15



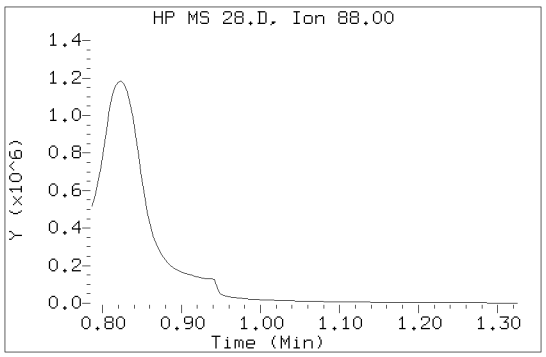
BEFORE

MASS
88
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
22-Jun-2024
09:15

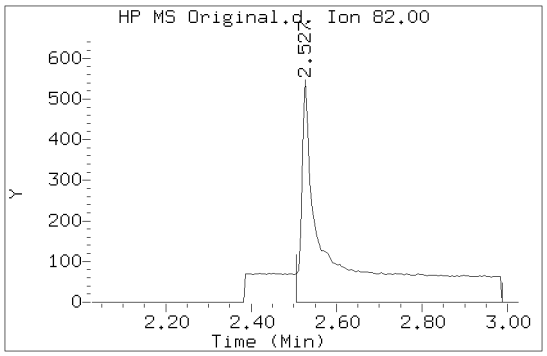


Nitrobenzene-d5 (4165-60-0)

Reason Code:

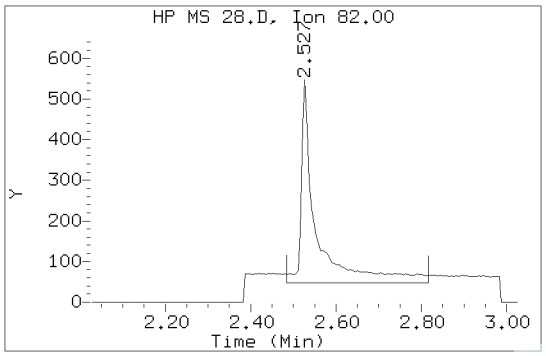
BEFORE

MASS
82
AREA
2742
HEIGHT
547
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
82
AREA
1213
HEIGHT
499
22-Jun-2024
09:15

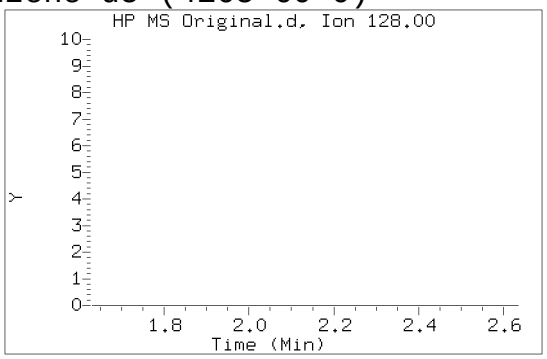


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

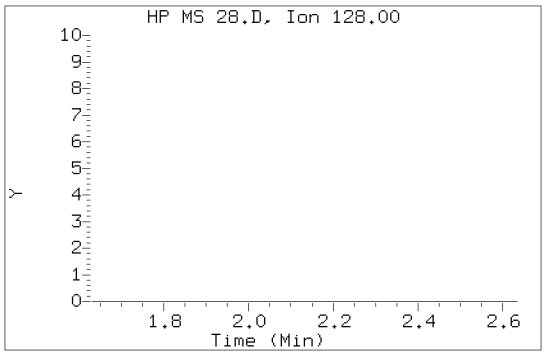
Nitrobenzene-d5 (4165-60-0)

Reason Code:

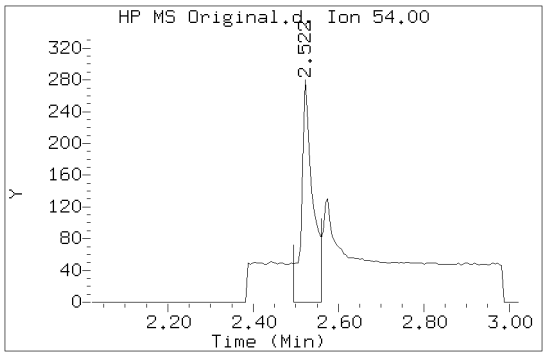
BEFORE
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



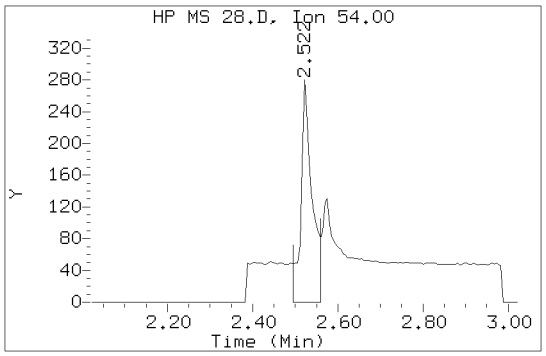
AFTER
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
09:15



BEFORE
MASS
54
AREA
519
HEIGHT
280
21-Jun-2024
20:25
ALSHS
Server



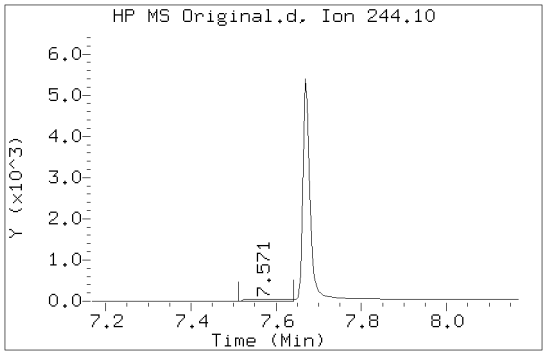
AFTER
MASS
54
AREA
519
HEIGHT
280
22-Jun-2024
09:15



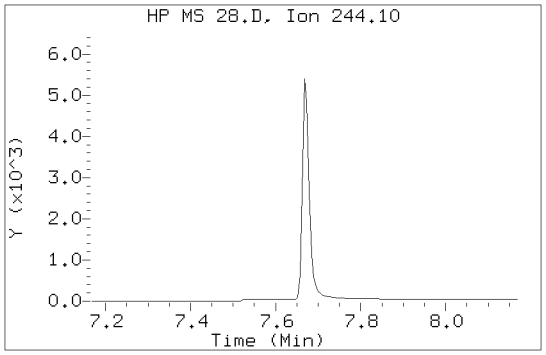
4-Terphenyl-d14 (1718-51-0)

Reason Code:

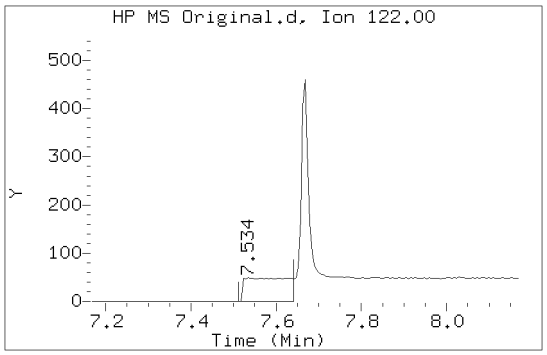
BEFORE
MASS
244.1
AREA
334
HEIGHT
46
21-Jun-2024
20:25
ALSHS
Server



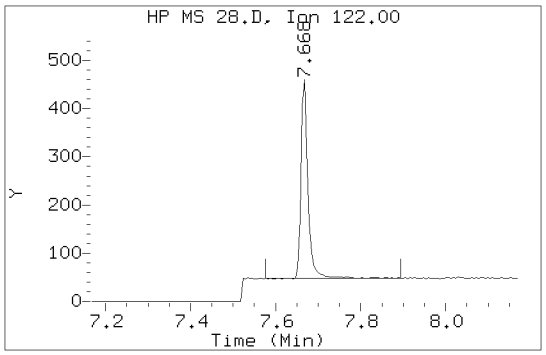
AFTER
MASS
244.1
AREA
8875
HEIGHT
5399
22-Jun-2024
09:15



BEFORE
MASS
122
AREA
353
HEIGHT
49
21-Jun-2024
20:25
ALSHS
Server



AFTER
MASS
122
AREA
470
HEIGHT
412
22-Jun-2024
09:15



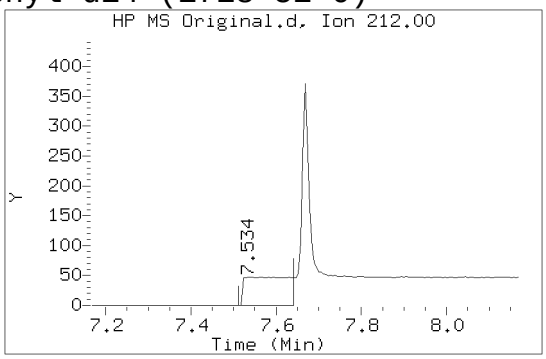
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

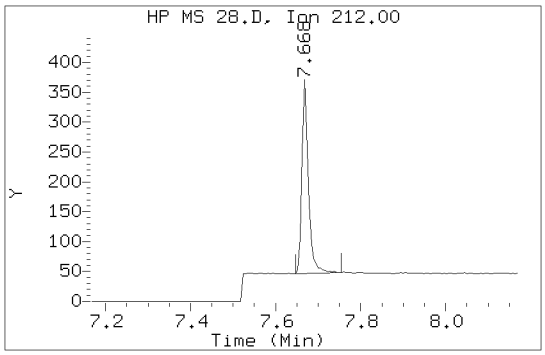
BEFORE

MASS
212
AREA
344
HEIGHT
47
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
212
AREA
346
HEIGHT
324
22-Jun-2024
09:15



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060899

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D Page 1
Report Date: 29-Jun-2024 12:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-JUN-2024 12:31
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 3 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)		
RT	EXP RT	DLT RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
3.972	5.571	-1.599	198	40504			0.00- 100.00	100.00
3.972	6.357	-2.385	51	12124			10.00- 80.00	29.93
3.972	6.357	-2.385	68	250			0.00- 2.00	1.73
3.972	6.357	-2.385	69	14478			0.00- 0.00	35.74
3.972	6.357	-2.385	70	0	0.0	0.0	0.00- 2.00	0.00
3.972	6.357	-2.385	127	17408			10.00- 80.00	42.98
3.972	6.357	-2.385	197	561			0.00- 2.00	1.39
3.972	6.357	-2.385	199	3140			5.00- 9.00	7.75
3.972	6.357	-2.385	275	10308			10.00- 60.00	25.45
3.972	6.357	-2.385	365	1217			1.00- 100.00	3.00
3.972	6.357	-2.385	441	5114			0.01- 99.99	69.48
3.972	6.357	-2.385	442	38496			50.00- 150.00	95.04
3.972	6.357	-2.385	443	7360			15.00- 24.00	19.12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	29.93
68	Less than 2.00% of mass 69	0.62 (1.73)
69	Mass 69 relative abundance	35.74
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	42.98
197	Less than 2.00% of mass 198	1.39
199	5.00 - 9.00% of mass 198	7.75
275	10.00 - 60.00% of mass 198	25.45
365	1.00 - 100.00% of mass 198	3.00
441	Present, but less than mass 443	12.63
442	50.00 - 150.00% of mass 198	95.04
443	15.00 - 24.00% of mass 442	18.17 (19.12)

Data File: 03.D
Spectrum: HP ChemStation MS 03.D, Scan 257: 3.962 min. (SUB)
Location of Maximum: 197.90
Number of points: 163

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	232	110.90	926	180.00	949	244.00	4422
39.00	854	111.90	205	181.00	407	245.00	526
46.90	171	115.80	227	185.00	689	245.90	603
49.00	73	117.00	3129	186.00	4989	246.80	221
50.00	3089	117.90	240	187.00	1285	255.00	22784
51.10	12124	121.90	365	187.90	171	255.90	3534
52.00	618	123.00	441	188.90	333	257.00	292
56.00	438	123.90	183	191.90	356	258.00	921
56.90	797	125.00	234	192.90	460	265.00	567
61.90	181	127.00	17408	194.00	158	273.00	881
63.00	464	128.00	1208	195.90	1162	274.00	2019
64.90	308	129.00	6850	197.00	561	275.00	10308
68.00	250	129.90	715	197.90	40504	275.90	1432
69.00	14478	134.90	501	198.90	3140	276.90	677
74.00	1442	136.00	182	199.90	261	285.00	198
75.00	2262	136.90	164	201.40	243	292.90	155
76.00	850	140.90	789	202.80	256	295.90	2488
77.00	14465	142.00	237	204.00	1389	296.80	394
78.00	1171	142.90	245	205.00	2175	302.90	232
79.00	922	146.00	219	206.00	10188	315.00	169
79.90	782	146.90	468	207.00	1388	323.00	961
81.00	1274	148.00	648	207.90	471	323.80	152
82.00	206	149.00	180	208.80	161	327.00	172
83.00	266	152.90	229	210.00	170	333.90	779
83.90	109	154.00	152	211.20	467	352.00	213
85.00	240	155.00	474	215.90	328	353.10	184
85.90	313	156.00	697	216.90	2636	354.10	388
90.90	280	156.90	212	217.90	397	365.00	1217
91.90	165	158.00	162	221.00	2132	365.80	272
93.00	1758	159.80	325	222.90	748	372.00	265
94.00	218	160.90	383	224.00	5961	401.70	227
98.00	1149	165.00	290	225.00	1482	402.80	355
98.90	974	166.00	315	225.80	161	420.90	243
101.00	790	166.90	1675	227.00	1993	422.00	280
103.00	280	167.90	624	228.00	343	423.00	1749
103.90	444	172.90	208	228.90	375	424.00	348
104.90	406	174.00	288	230.90	228	441.00	5114
107.00	4597	175.00	609	233.90	223	442.00	38496
108.00	672	176.10	168	237.00	201	443.00	7360
109.20	178	176.90	361	241.90	261	443.90	811
110.00	9247	179.00	1338	242.90	311		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D Page 1

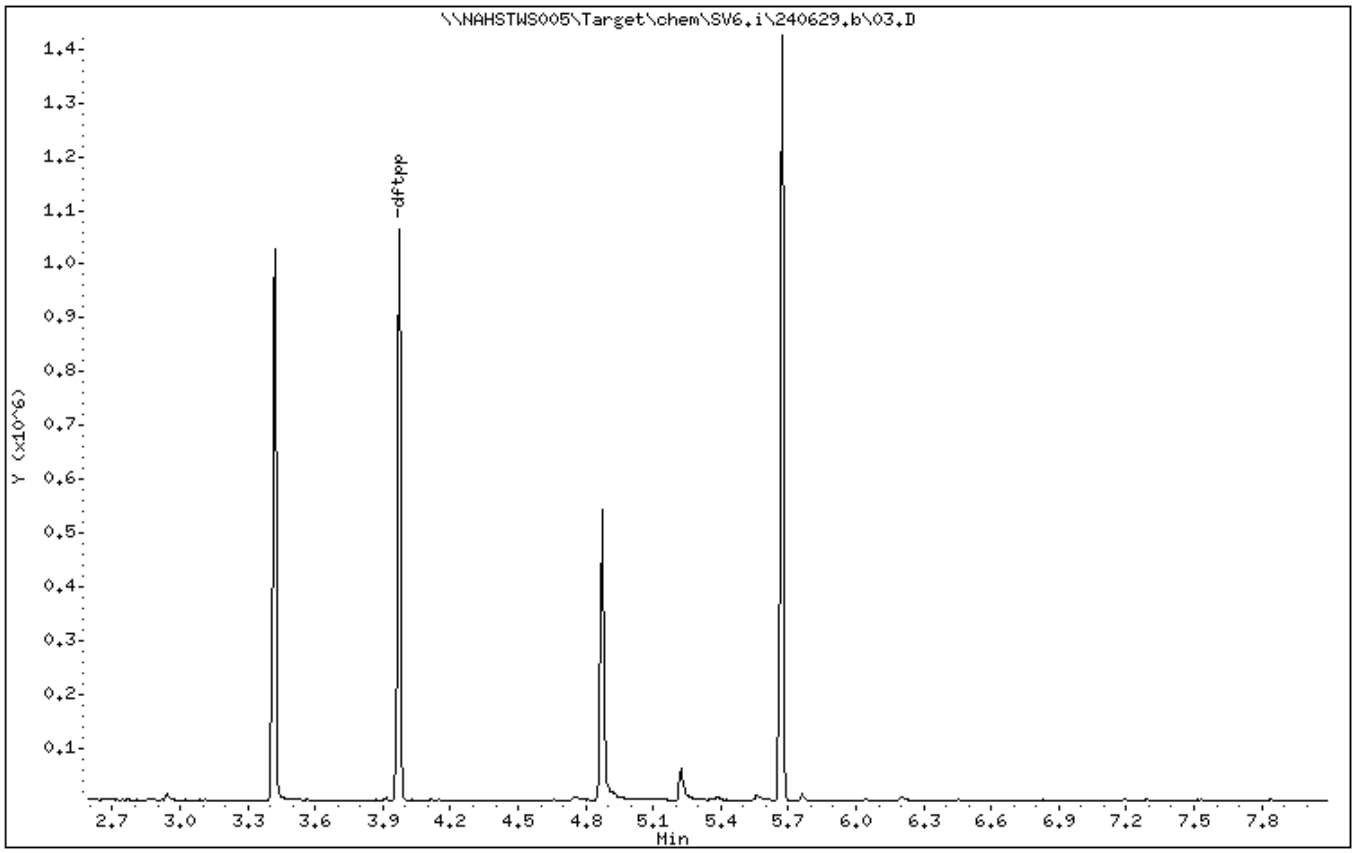
Date : 29-JUN-2024 12:31

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D Page 2

Date : 29-JUN-2024 12:31

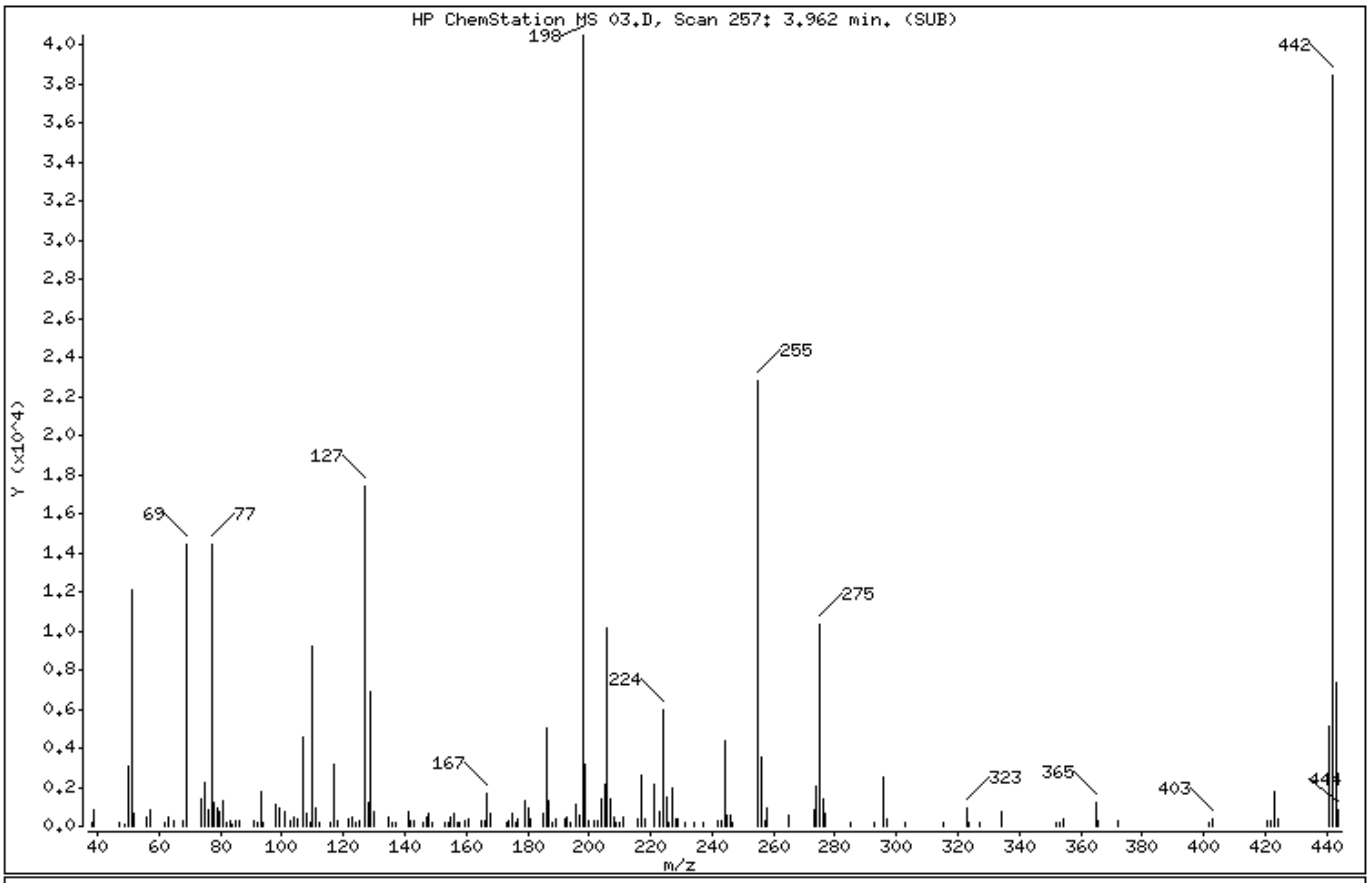
Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	29.93
68	Less than 2.00% of mass 69	0.62 (1.73)
69	Mass 69 relative abundance	35.74
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	42.98
197	Less than 2.00% of mass 198	1.39
199	5.00 - 9.00% of mass 198	7.75
275	10.00 - 60.00% of mass 198	25.45
365	1.00 - 100.00% of mass 198	3.00
441	Present, but less than mass 443	12.63
442	50.00 - 150.00% of mass 198	95.04
443	15.00 - 24.00% of mass 442	18.17 (19.12)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D Page 3

Date : 29-JUN-2024 12:31

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 03.D
Spectrum: HP ChemStation MS 03.D, Scan 257: 3.962 min. (SUB)
Location of Maximum: 197.90
Number of points: 163

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	232	110.90	926	180.00	949	244.00	4422
39.00	854	111.90	205	181.00	407	245.00	526
46.90	171	115.80	227	185.00	689	245.90	603
49.00	73	117.00	3129	186.00	4989	246.80	221
50.00	3089	117.90	240	187.00	1285	255.00	22784
51.10	12124	121.90	365	187.90	171	255.90	3534
52.00	618	123.00	441	188.90	333	257.00	292
56.00	438	123.90	183	191.90	356	258.00	921
56.90	797	125.00	234	192.90	460	265.00	567
61.90	181	127.00	17408	194.00	158	273.00	881
63.00	464	128.00	1208	195.90	1162	274.00	2019
64.90	308	129.00	6850	197.00	561	275.00	10308
68.00	250	129.90	715	197.90	40504	275.90	1432
69.00	14478	134.90	501	198.90	3140	276.90	677
74.00	1442	136.00	182	199.90	261	285.00	198
75.00	2262	136.90	164	201.40	243	292.90	155
76.00	850	140.90	789	202.80	256	295.90	2488
77.00	14465	142.00	237	204.00	1389	296.80	394
78.00	1171	142.90	245	205.00	2175	302.90	232
79.00	922	146.00	219	206.00	10188	315.00	169
79.90	782	146.90	468	207.00	1388	323.00	961
81.00	1274	148.00	648	207.90	471	323.80	152
82.00	206	149.00	180	208.80	161	327.00	172
83.00	266	152.90	229	210.00	170	333.90	779
83.90	109	154.00	152	211.20	467	352.00	213
85.00	240	155.00	474	215.90	328	353.10	184
85.90	313	156.00	697	216.90	2636	354.10	388
90.90	280	156.90	212	217.90	397	365.00	1217
91.90	165	158.00	162	221.00	2132	365.80	272
93.00	1758	159.80	325	222.90	748	372.00	265
94.00	218	160.90	383	224.00	5961	401.70	227
98.00	1149	165.00	290	225.00	1482	402.80	355
98.90	974	166.00	315	225.80	161	420.90	243
101.00	790	166.90	1675	227.00	1993	422.00	280
103.00	280	167.90	624	228.00	343	423.00	1749

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\03.D Page 4

Date : 29-JUN-2024 12:31

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 03.D
Spectrum: HP ChemStation MS 03.D, Scan 257: 3.962 min. (SUB)
Location of Maximum: 197.90
Number of points: 163

m/z	Y	m/z	Y	m/z	Y	m/z	Y
103.90	444	172.90	208	228.90	375	424.00	348
104.90	406	174.00	288	230.90	228	441.00	5114
107.00	4597	175.00	609	233.90	223	442.00	38496
108.00	672	176.10	168	237.00	201	443.00	7360
109.20	178	176.90	361	241.90	261	443.90	811
110.00	9247	179.00	1338	242.90	311		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 29-JUN-2024 13:58
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 29-Jun-2024 14:15 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	1.926	1.926	(1.000)	1993	0.10000	(aQM)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	7115	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	1487	0.08000	0.06962(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	4286	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	3.862	3.862	(0.866)	4598	0.08000	0.07018(M)
* 126 Phenanthrene-d10	188	5.849	5.849	(1.000)	8105	0.10000	
* 182 Chrysene-d12	240	8.361	8.361	(1.000)	6578	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.887)	8581	0.08000	0.06403(M)
* 198 Perylene-d12	264	9.856	9.856	(1.000)	6794	0.10000	
1 1,4-Dioxane	58	0.778	0.778	(0.404)	287	0.08000	0.06723(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D

Date : 29-JUN-2024 13:58

Client ID: 14DX-0.08

Instrument: SV6.i

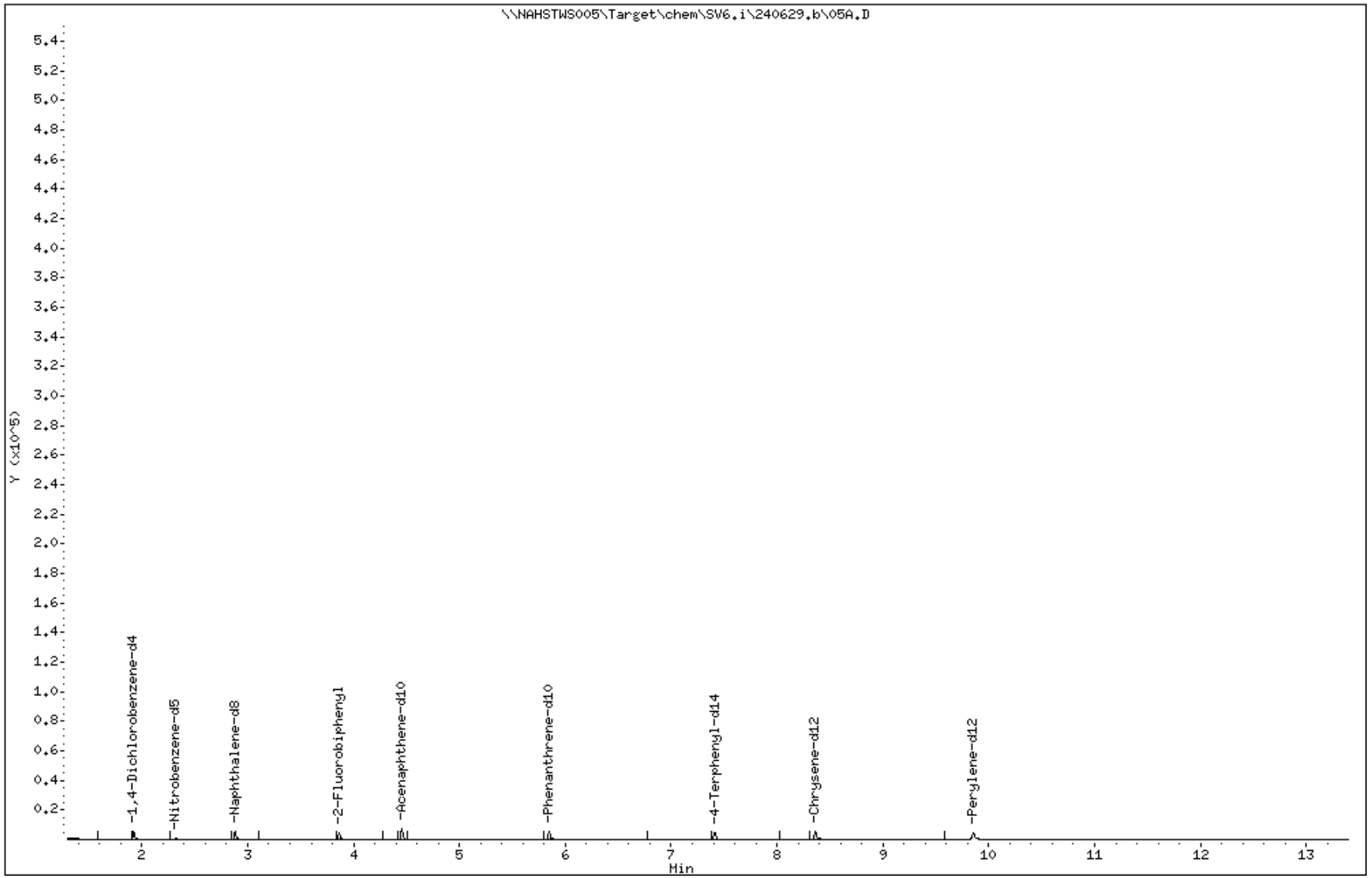
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



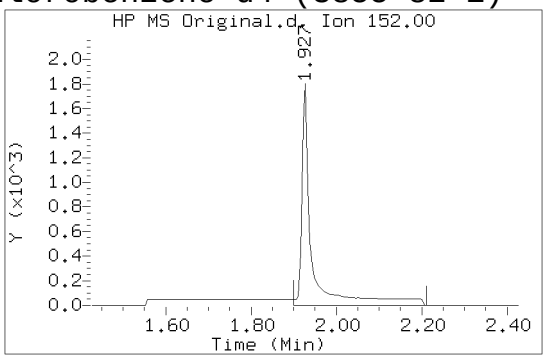
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

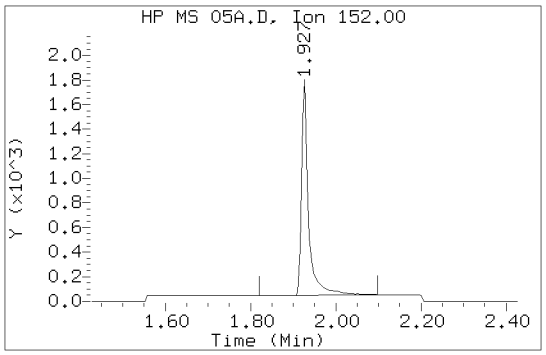
BEFORE

MASS
152
AREA
2940
HEIGHT
1802
29-Jun-2024
14:13
ALSHS
Server



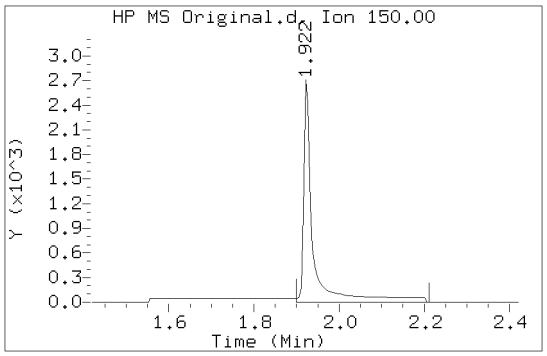
AFTER

MASS
152
AREA
1993
HEIGHT
1752
29-Jun-2024
14:15



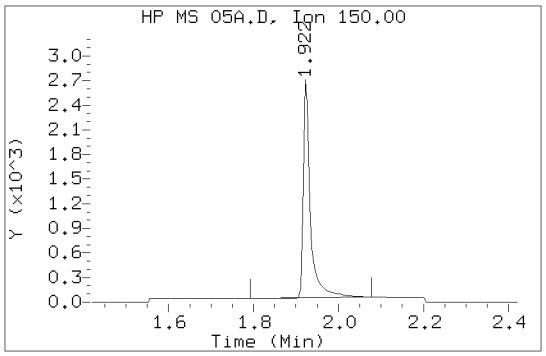
BEFORE

MASS
150
AREA
4154
HEIGHT
2708
29-Jun-2024
14:13
ALSHS
Server



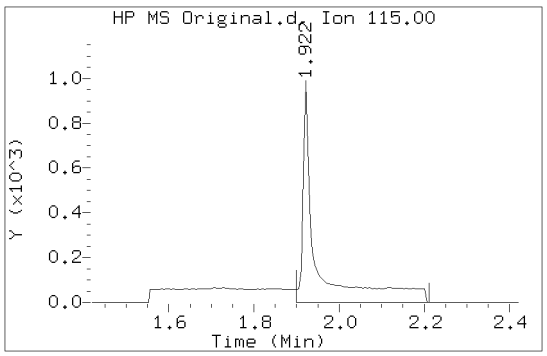
AFTER

MASS
150
AREA
3076
HEIGHT
2653
29-Jun-2024
14:15



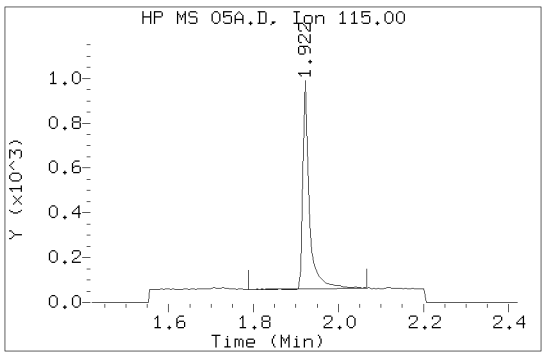
BEFORE

MASS
115
AREA
2134
HEIGHT
990
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
115
AREA
1012
HEIGHT
930
29-Jun-2024
14:15

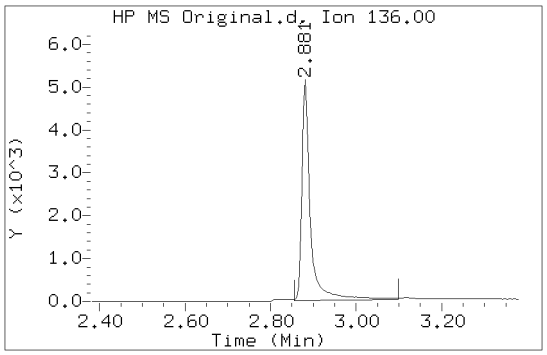


Naphthalene-d8 (1146-65-2)

Reason Code:

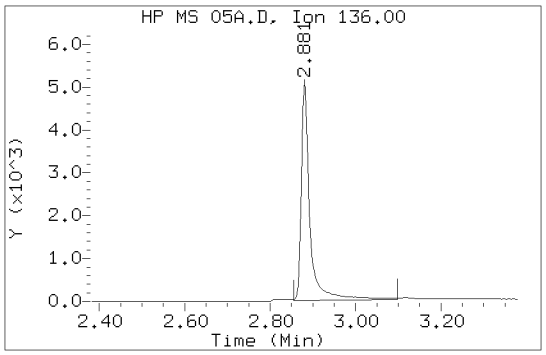
BEFORE

MASS
136
AREA
7115
HEIGHT
5157
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
136
AREA
7115
HEIGHT
5157
29-Jun-2024
14:15

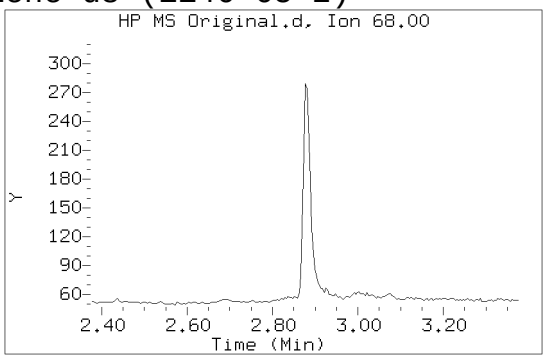


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

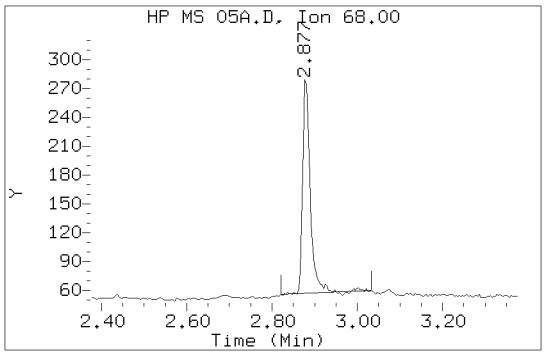
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



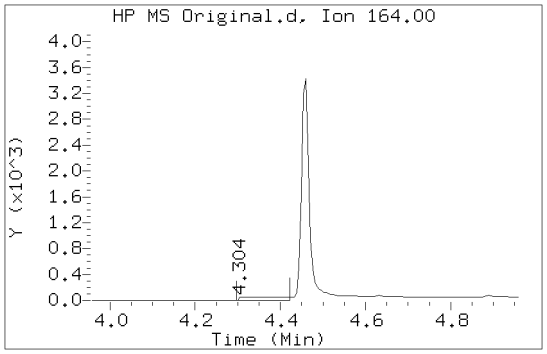
AFTER
MASS
68
AREA
273
HEIGHT
221
29-Jun-2024
14:15



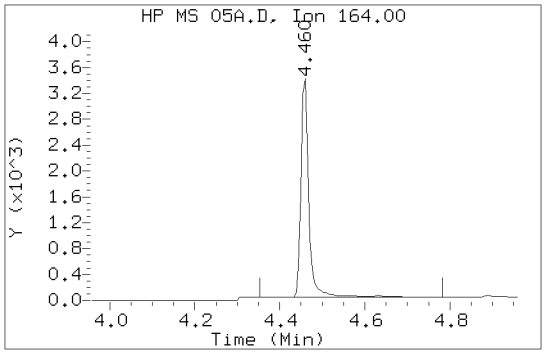
Acenaphthene-d10 (15067-26-2)

Reason Code:

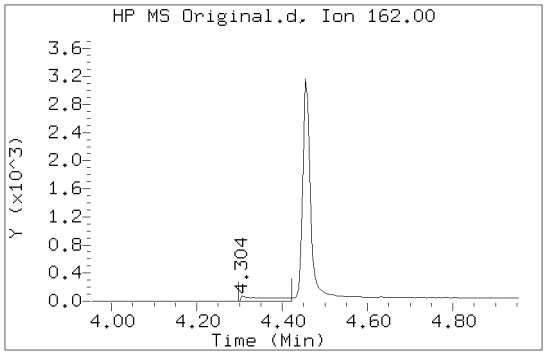
BEFORE
MASS
164
AREA
356
HEIGHT
52
29-Jun-2024
14:13
ALSHS
Server



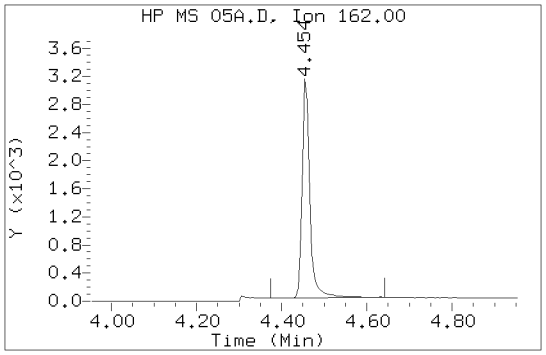
AFTER
MASS
164
AREA
4286
HEIGHT
3377
29-Jun-2024
14:15



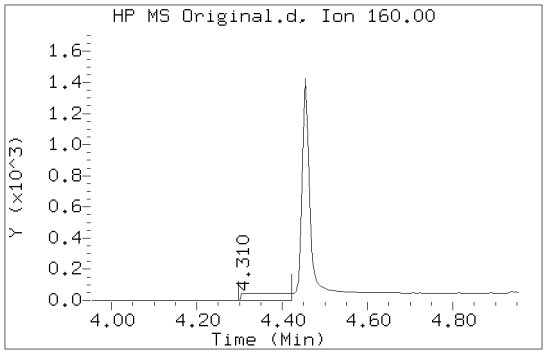
BEFORE
MASS
162
AREA
367
HEIGHT
75
29-Jun-2024
14:13
ALSHS
Server



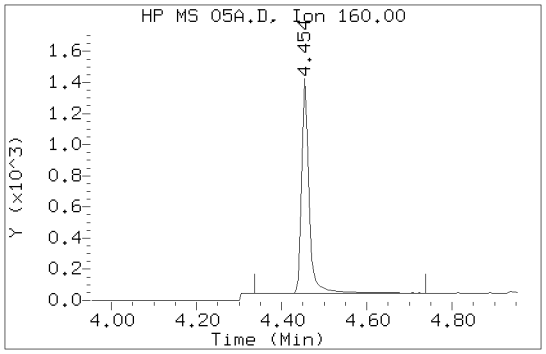
AFTER
MASS
162
AREA
3825
HEIGHT
3112
29-Jun-2024
14:15



BEFORE
MASS
160
AREA
332
HEIGHT
47
29-Jun-2024
14:13
ALSHS
Server



AFTER
MASS
160
AREA
1655
HEIGHT
1377
29-Jun-2024
14:15

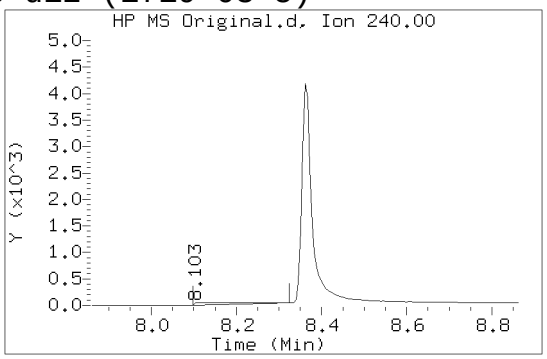


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

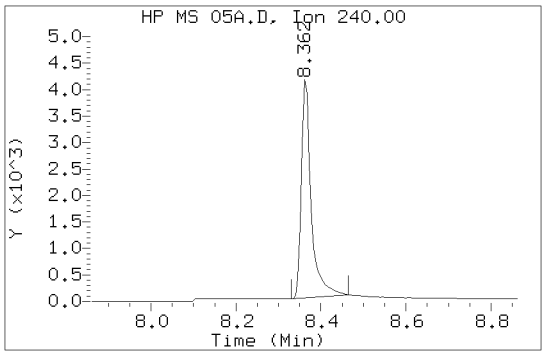
Chrysene-d12 (1719-03-5)

Reason Code:

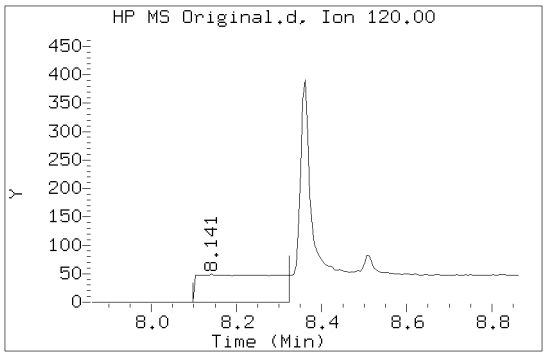
BEFORE
MASS
240
AREA
295
HEIGHT
43
29-Jun-2024
14:13
ALSHS
Server



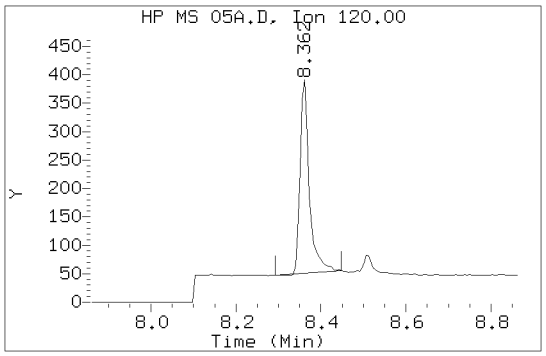
AFTER
MASS
240
AREA
6578
HEIGHT
4123
29-Jun-2024
14:15



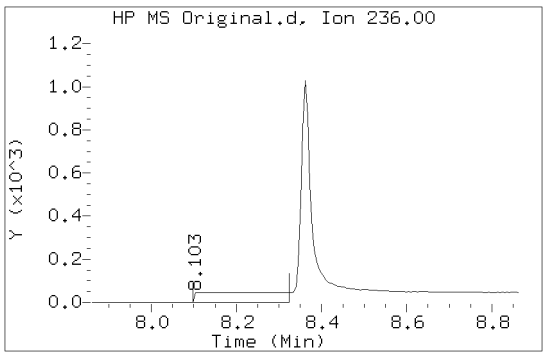
BEFORE
MASS
120
AREA
640
HEIGHT
50
29-Jun-2024
14:13
ALSHS
Server



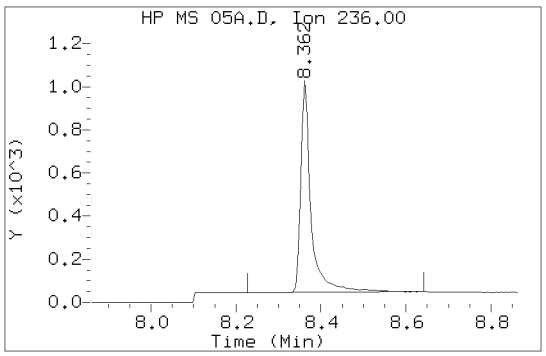
AFTER
MASS
120
AREA
509
HEIGHT
340
29-Jun-2024
14:15



BEFORE
MASS
236
AREA
612
HEIGHT
46
29-Jun-2024
14:13
ALSHS
Server



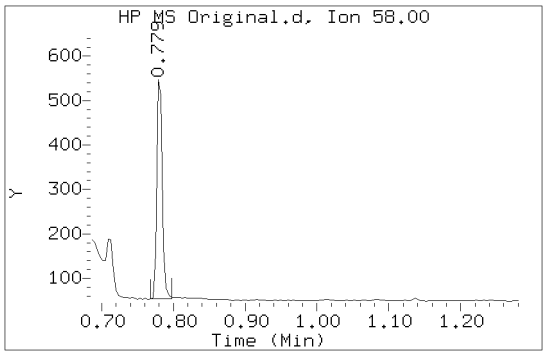
AFTER
MASS
236
AREA
1625
HEIGHT
981
29-Jun-2024
14:15



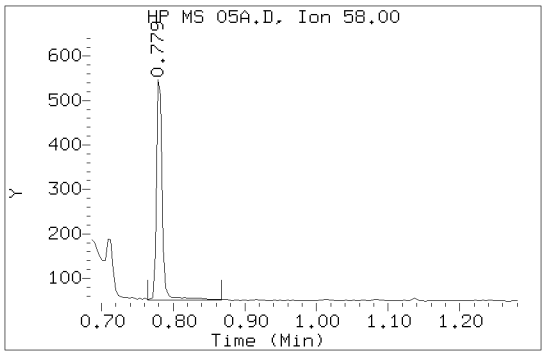
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
266
HEIGHT
493
29-Jun-2024
14:13
ALSHS
Server



AFTER
MASS
58
AREA
287
HEIGHT
496
29-Jun-2024
14:15

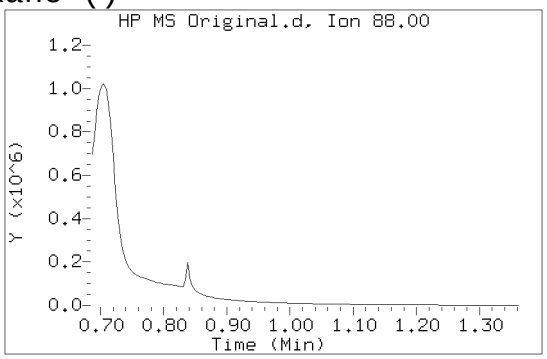


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

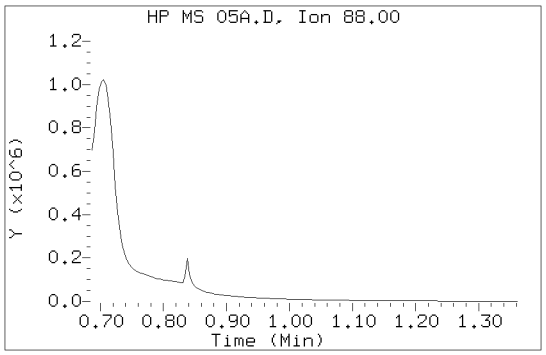
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



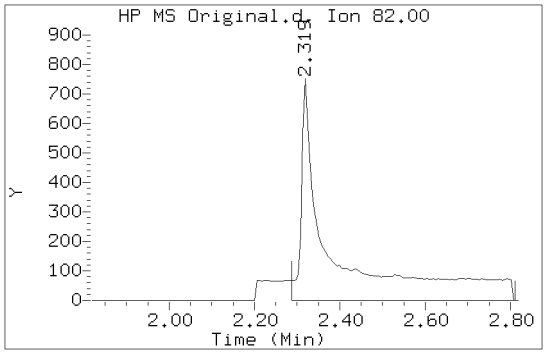
AFTER
MASS
88
AREA
0
HEIGHT
0
29-Jun-2024
14:15



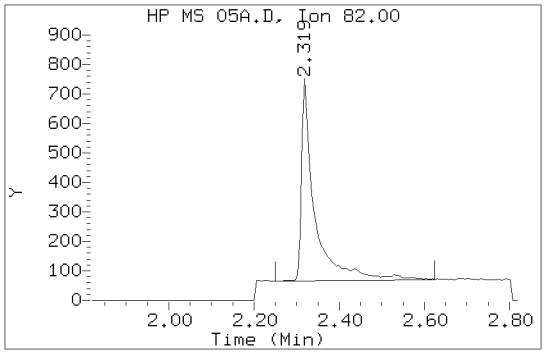
Nitrobenzene-d5 (4165-60-0)

Reason Code:

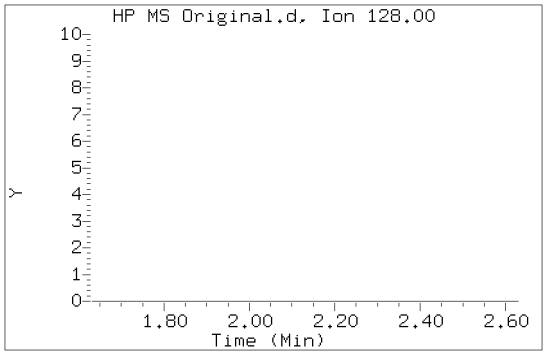
BEFORE
MASS
82
AREA
3627
HEIGHT
752
29-Jun-2024
14:13
ALSHS
Server



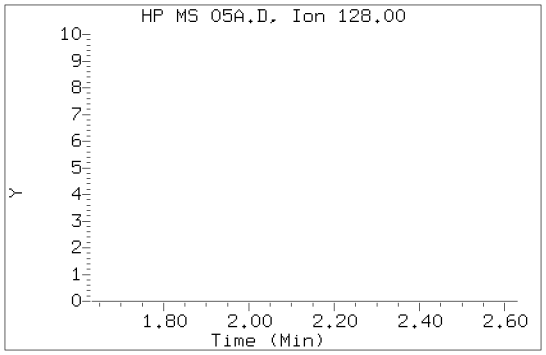
AFTER
MASS
82
AREA
1487
HEIGHT
686
29-Jun-2024
14:15



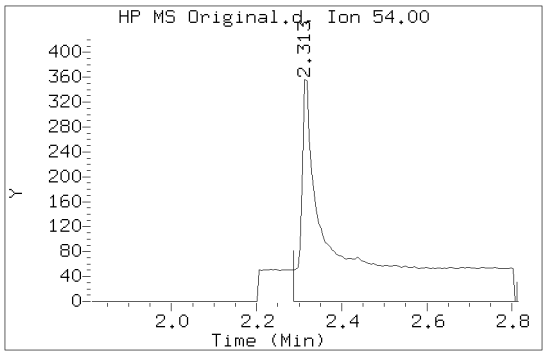
BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
14:13
ALSHS
Server



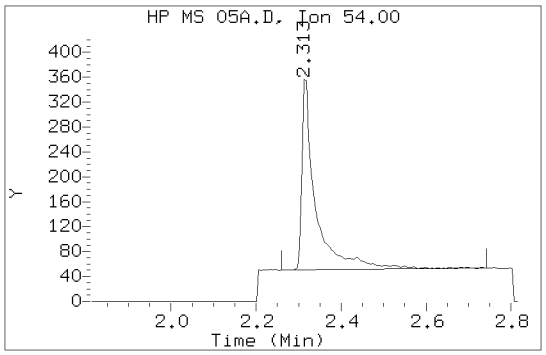
AFTER
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
14:15



BEFORE
MASS
54
AREA
2320
HEIGHT
356
29-Jun-2024
14:13
ALSHS
Server



AFTER
MASS
54
AREA
696
HEIGHT
305
29-Jun-2024
14:15

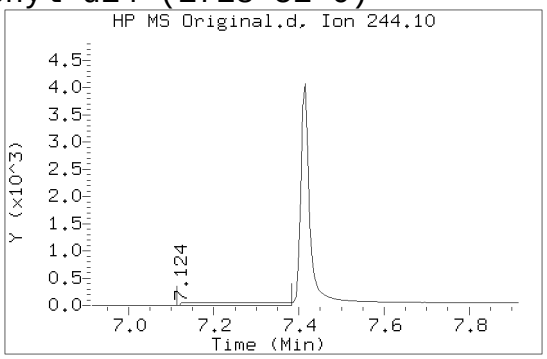


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Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

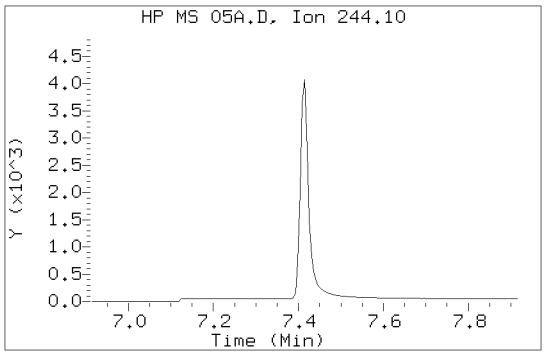
4-Terphenyl-d14 (1718-51-0)

Reason Code:

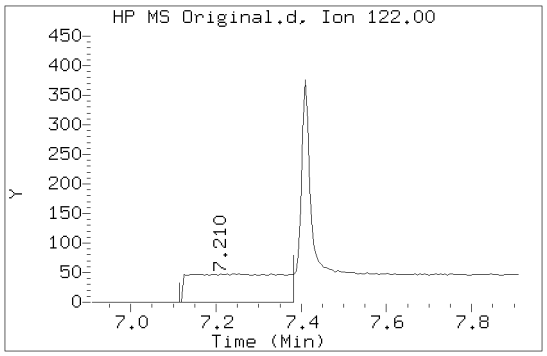
BEFORE
MASS
244.1
AREA
704
HEIGHT
45
29-Jun-2024
14:13
ALSHS
Server



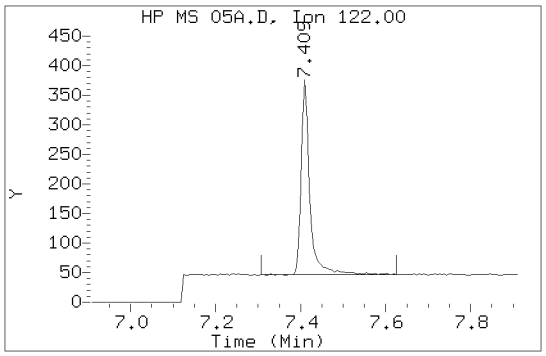
AFTER
MASS
244.1
AREA
8581
HEIGHT
4073
29-Jun-2024
14:15



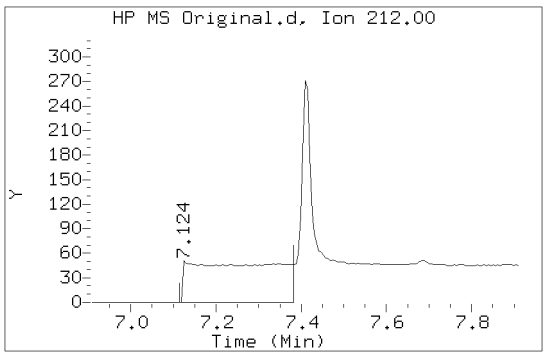
BEFORE
MASS
122
AREA
740
HEIGHT
48
29-Jun-2024
14:13
ALSHS
Server



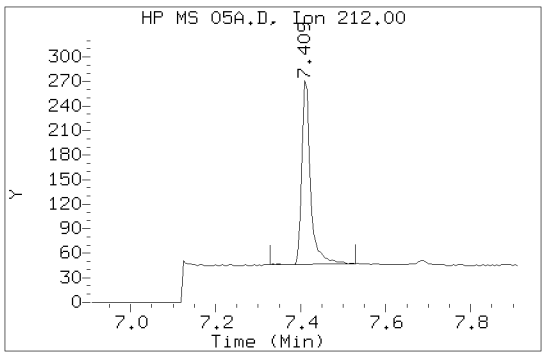
AFTER
MASS
122
AREA
455
HEIGHT
329
29-Jun-2024
14:15



BEFORE
MASS
212
AREA
725
HEIGHT
51
29-Jun-2024
14:13
ALSHS
Server



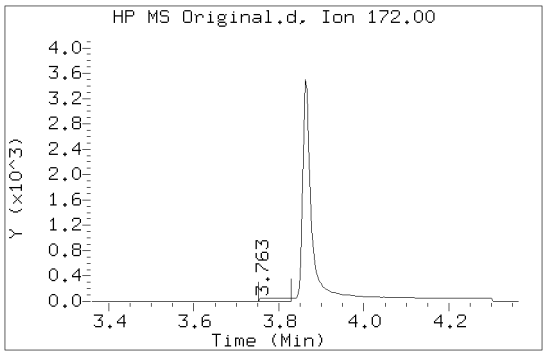
AFTER
MASS
212
AREA
318
HEIGHT
224
29-Jun-2024
14:15



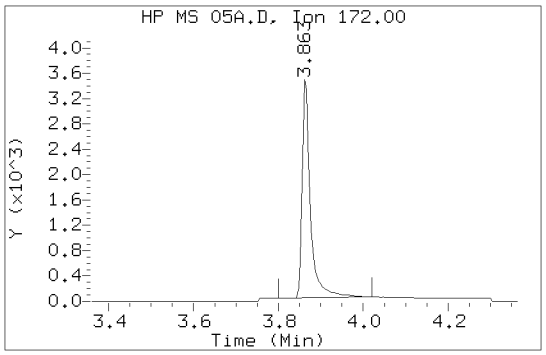
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
215
HEIGHT
47
29-Jun-2024
14:13
ALSHS
Server



AFTER
MASS
172
AREA
4598
HEIGHT
3444
29-Jun-2024
14:15



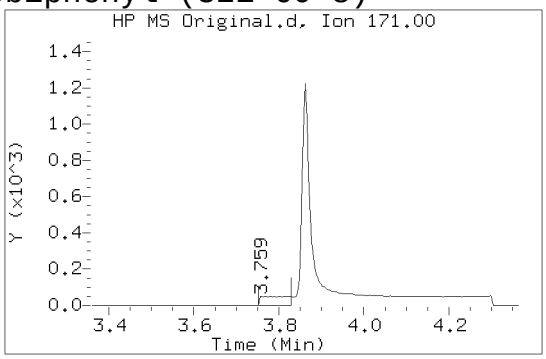
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\05A.D
Inj Date : 29-JUN-2024 13:58
InstruID : SV6.i
LabSampID : 14DX-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

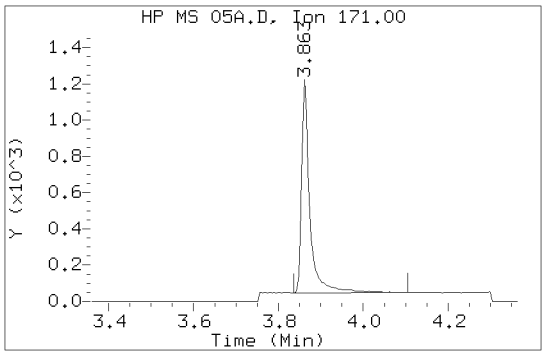
BEFORE

MASS
171
AREA
222
HEIGHT
49
29-Jun-2024
14:13
ALSHS
Server



AFTER

MASS
171
AREA
1572
HEIGHT
1176
29-Jun-2024
14:15



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\07.D
Lab Smp Id: HS24060899-02 Client Smp ID: HS24060899-2
Inj Date : 29-JUN-2024 14:40
Operator : LG Inst ID: SV6.i
Smp Info : HS24060899-02X10
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 23-Jul-2024 14:27 r.patel Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 7
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	1.921	1.916	(1.000)	2675	0.10000	(aQ)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	5156	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	146	0.00943	0.09432(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	3466	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	525	0.00991	0.09909(M)
* 126 Phenanthrene-d10	188	5.849	5.855	(1.000)	6765	0.10000	
* 182 Chrysene-d12	240	8.361	8.366	(1.000)	6653	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.409	7.414	(0.886)	1328	0.00980	0.09798(M)
* 198 Perylene-d12	264	9.851	9.861	(1.000)	6005	0.10000	
1 1,4-Dioxane	58	0.745	0.719	(0.388)	476	0.08308	0.8308(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\07.D

Date : 29-JUN-2024 14:40

Client ID: HS24060899-2

Instrument: SV6.i

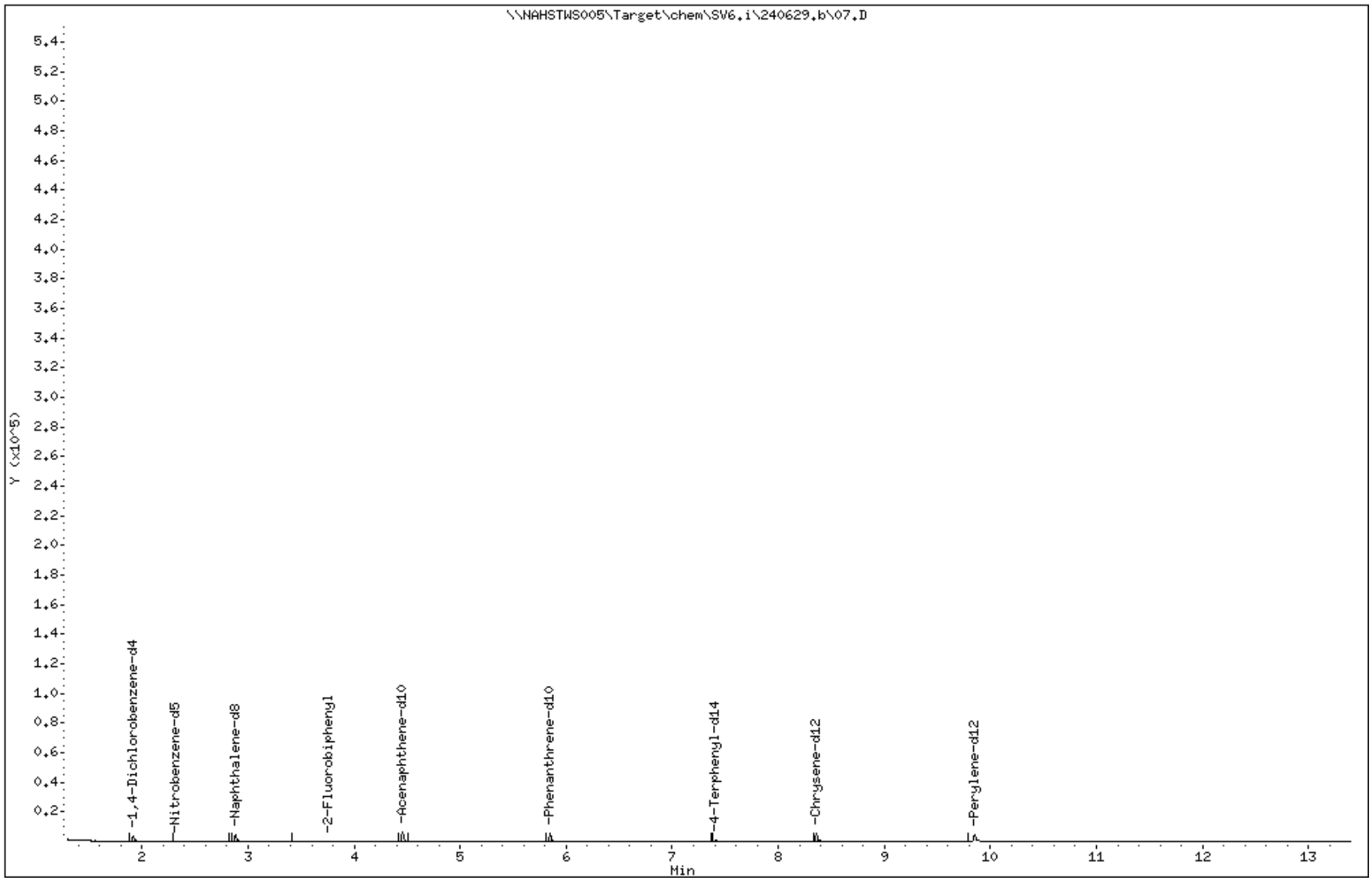
Sample Info: HS24060899-02X10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\07.D Page 2

Date : 29-JUN-2024 14:40

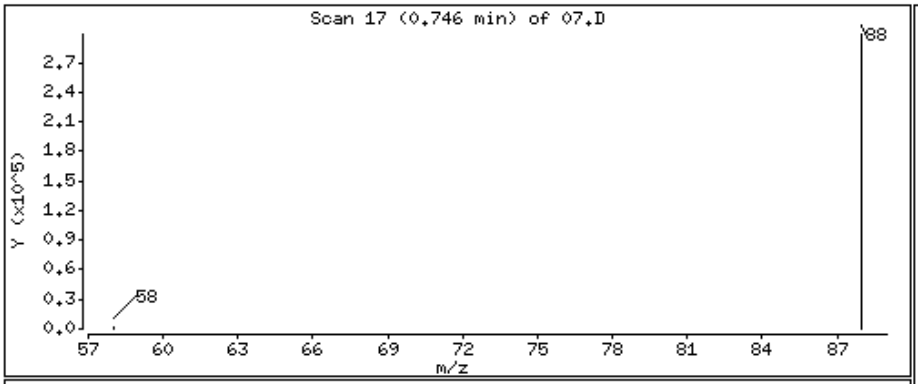
Client ID: HS24060899-2 Instrument: SV6.i

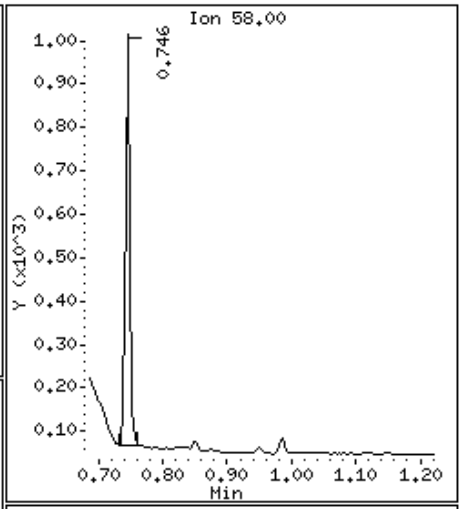
Sample Info: HS24060899-02X10

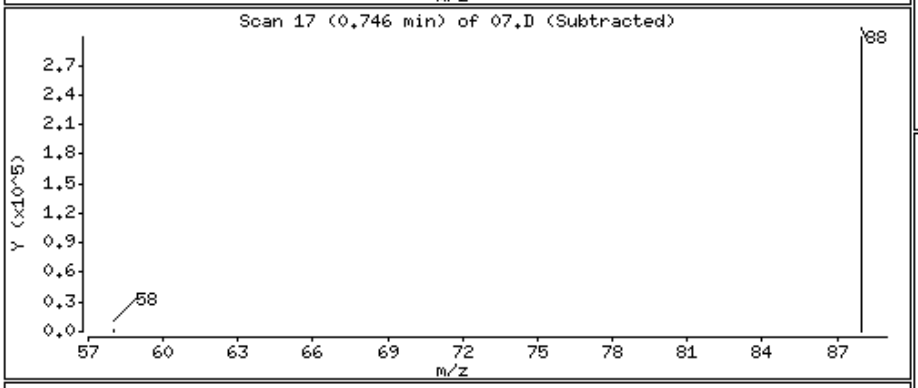
Purge Volume: 1000.0 Operator: LG

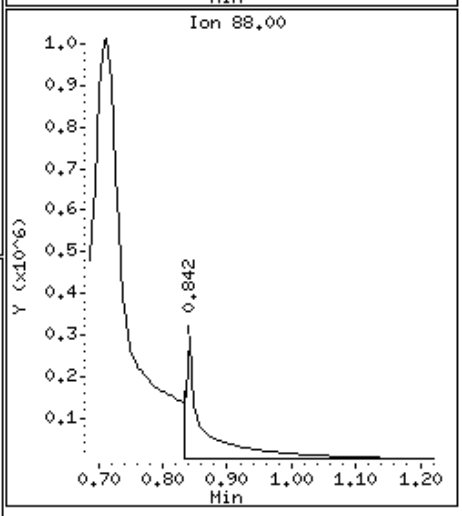
Column phase: RTX-5SIL MS Column diameter: 0.28

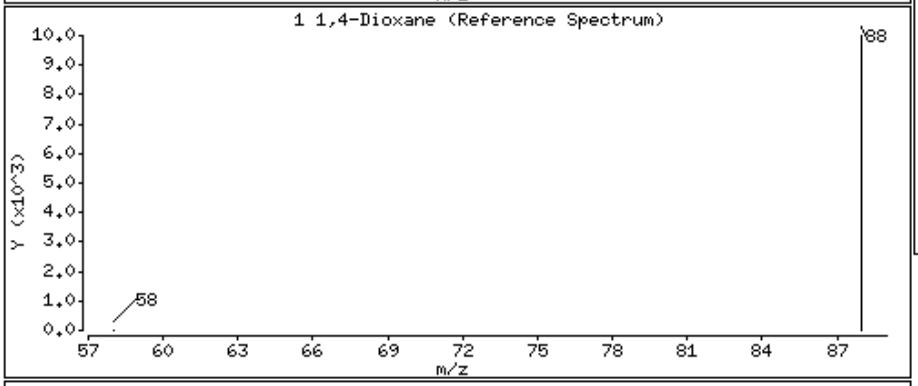
1 1,4-Dioxane Concentration: 0.8308 ug/L

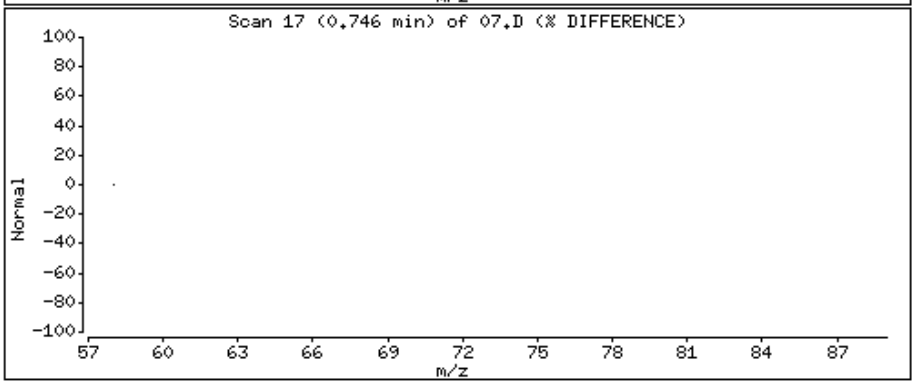












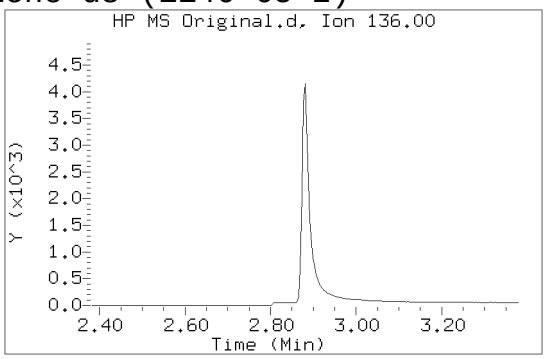
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\07.D
Inj Date : 29-JUN-2024 14:40
InstruID : SV6.i
LabSampID : HS24060899-02

Naphthalene-d8 (1146-65-2)

Reason Code: MBA

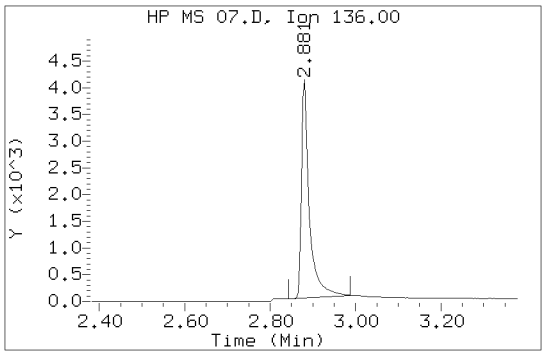
BEFORE

MASS
136
AREA
0
HEIGHT
0
29-Jun-2024
14:55
ALSHS
Server



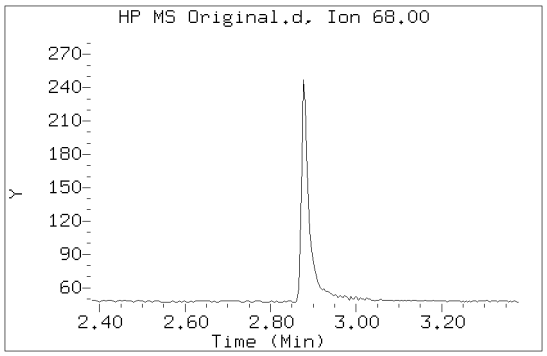
AFTER

MASS
136
AREA
5156
HEIGHT
4088
23-Jul-2024
14:32
ALSHS
S



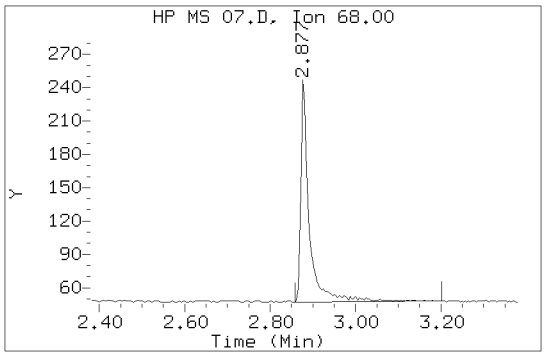
BEFORE

MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
14:55
ALSHS
Server



AFTER

MASS
68
AREA
273
HEIGHT
199
23-Jul-2024
14:32
ALSHS
S

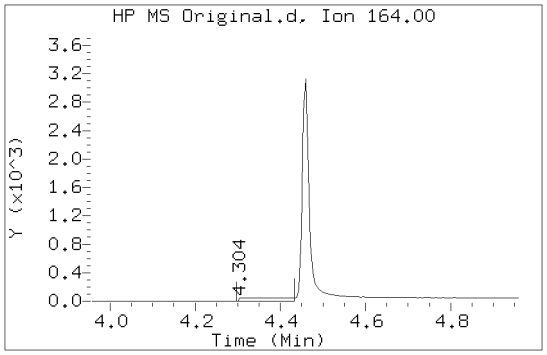


Acenaphthene-d10 (15067-26-2)

Reason Code:

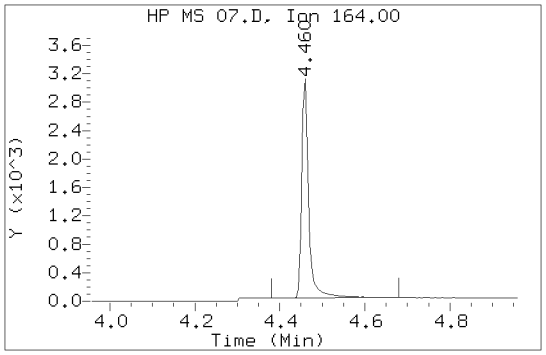
BEFORE

MASS
164
AREA
367
HEIGHT
48
29-Jun-2024
14:55
ALSHS
Server



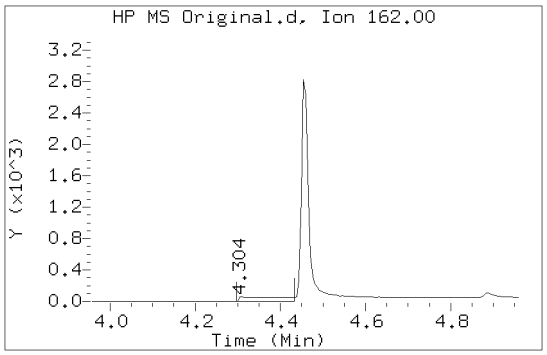
AFTER

MASS
164
AREA
3466
HEIGHT
3080
23-Jul-2024
14:32
ALSHS
S



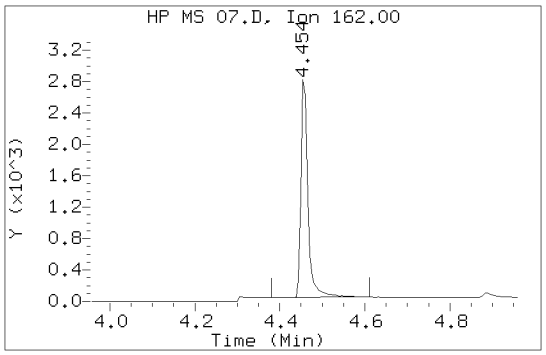
BEFORE

MASS
162
AREA
372
HEIGHT
61
29-Jun-2024
14:55
ALSHS
Server



AFTER

MASS
162
AREA
3138
HEIGHT
2774
23-Jul-2024
14:32
ALSHS
S



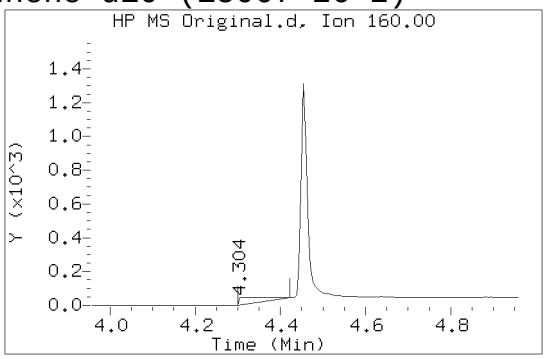
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\07.D
Inj Date : 29-JUN-2024 14:40
InstruID : SV6.i
LabSampID : HS24060899-02

Acenaphthene-d10 (15067-26-2)

Reason Code:

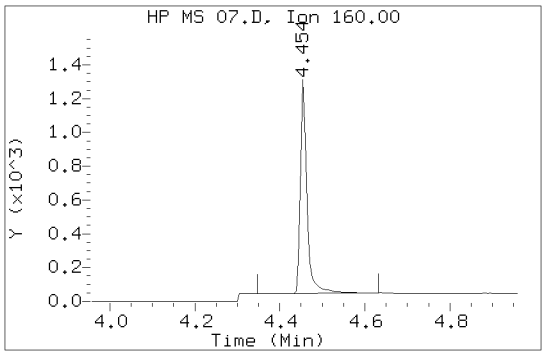
BEFORE

MASS
160
AREA
155
HEIGHT
43
29-Jun-2024
14:55
ALSHS
Server



AFTER

MASS
160
AREA
1337
HEIGHT
1265
23-Jul-2024
14:32
ALSHS
S

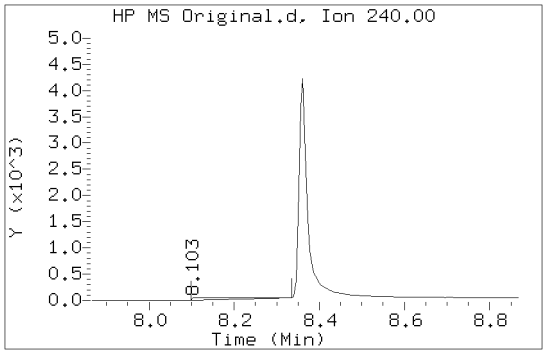


Chrysene-d12 (1719-03-5)

Reason Code: MBA

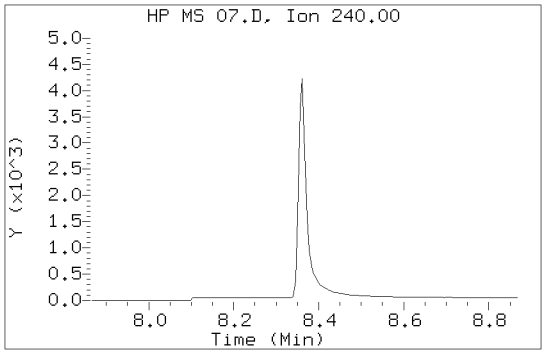
BEFORE

MASS
240
AREA
306
HEIGHT
44
29-Jun-2024
14:55
ALSHS
Server



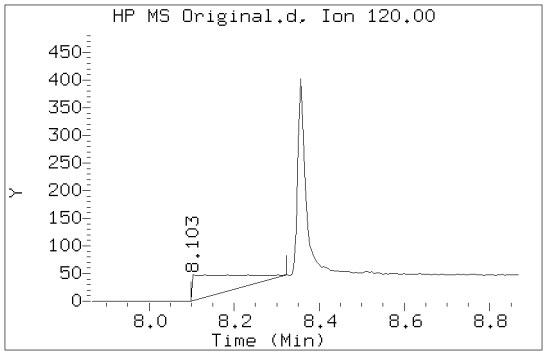
AFTER

MASS
240
AREA
6653
HEIGHT
4186
23-Jul-2024
14:32
ALSHS
S



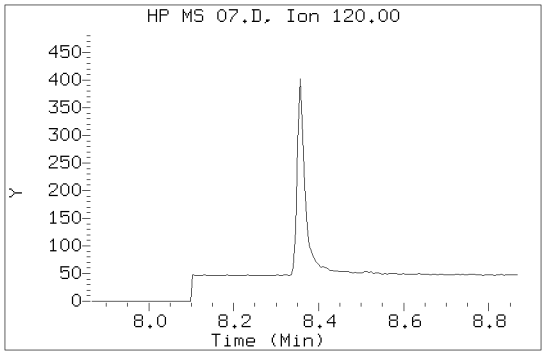
BEFORE

MASS
120
AREA
305
HEIGHT
46
29-Jun-2024
14:55
ALSHS
Server



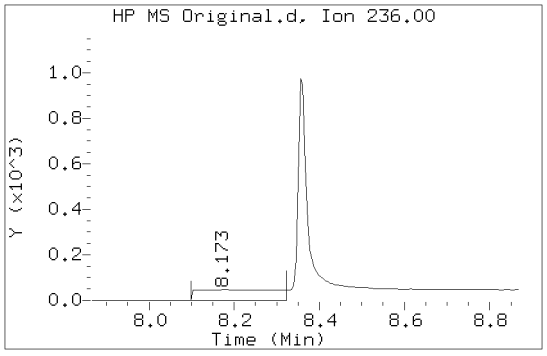
AFTER

MASS
120
AREA
501
HEIGHT
354
23-Jul-2024
14:32
ALSHS
S



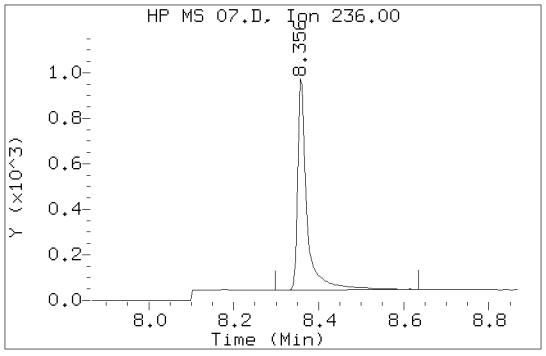
BEFORE

MASS
236
AREA
617
HEIGHT
47
29-Jun-2024
14:55
ALSHS
Server



AFTER

MASS
236
AREA
1400
HEIGHT
927
23-Jul-2024
14:32
ALSHS
S

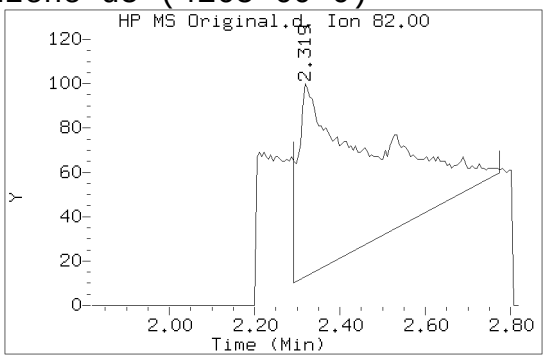


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\07.D
Inj Date : 29-JUN-2024 14:40
InstruID : SV6.i
LabSampID : HS24060899-02

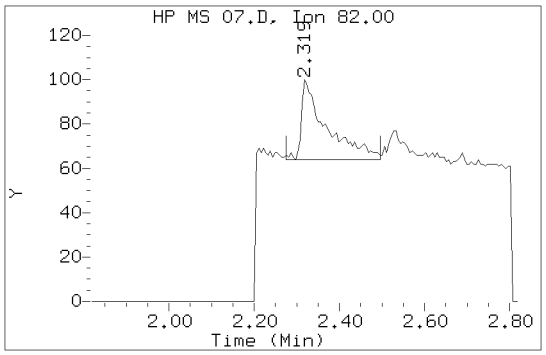
Nitrobenzene-d5 (4165-60-0)

Reason Code:

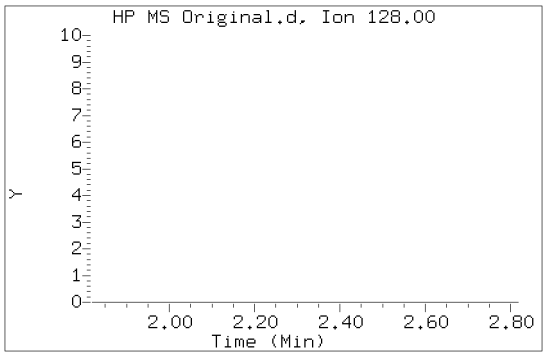
BEFORE
MASS
82
AREA
1025
HEIGHT
87
29-Jun-2024
14:55
ALSHS
Server



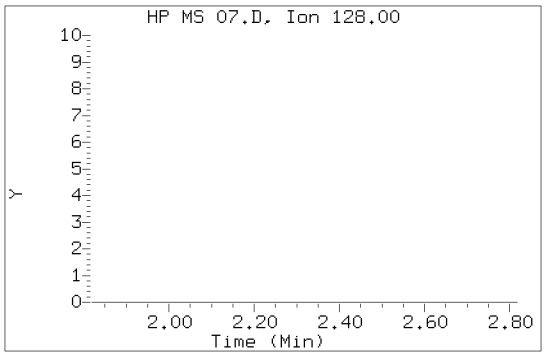
AFTER
MASS
82
AREA
146
HEIGHT
36
23-Jul-2024
14:32
ALSHS
S



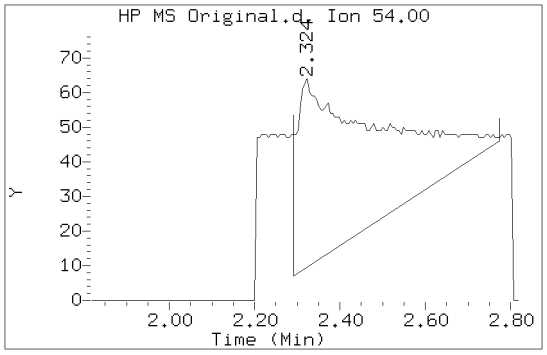
BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
14:55
ALSHS
Server



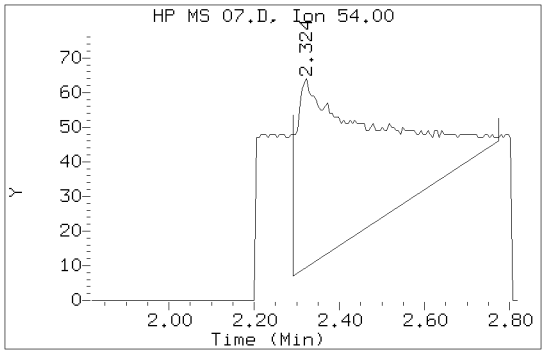
AFTER
MASS
128
AREA
0
HEIGHT
0
23-Jul-2024
14:32
ALSHS
S



BEFORE
MASS
54
AREA
702
HEIGHT
54
29-Jun-2024
14:55
ALSHS
Server



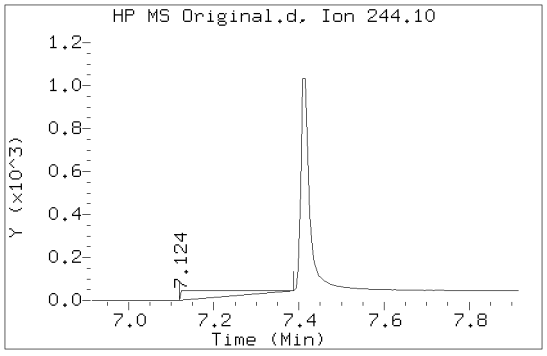
AFTER
MASS
54
AREA
702
HEIGHT
54
23-Jul-2024
14:32
ALSHS
S



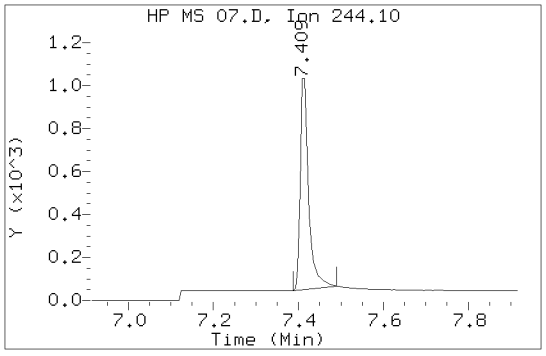
4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

BEFORE
MASS
244.1
AREA
351
HEIGHT
44
29-Jun-2024
14:55
ALSHS
Server



AFTER
MASS
244.1
AREA
1328
HEIGHT
983
23-Jul-2024
14:32
ALSHS
S



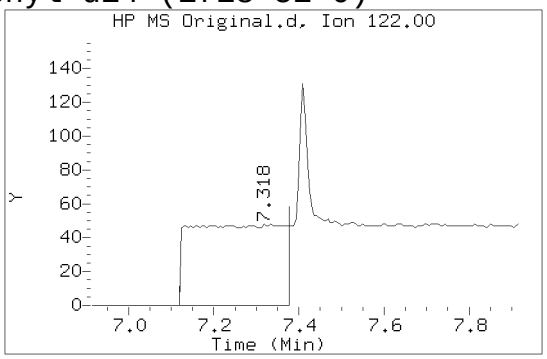
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\07.D
Inj Date : 29-JUN-2024 14:40
InstruID : SV6.i
LabSampID : HS24060899-02

4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

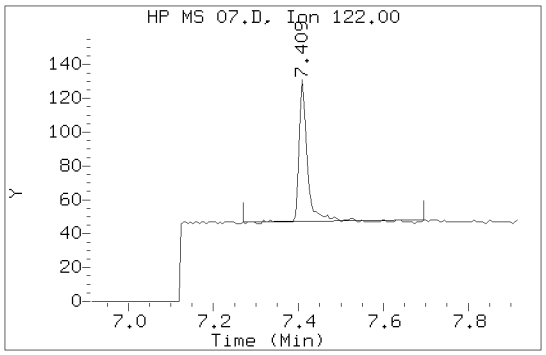
BEFORE

MASS
122
AREA
724
HEIGHT
48
29-Jun-2024
14:55
ALSHS
Server



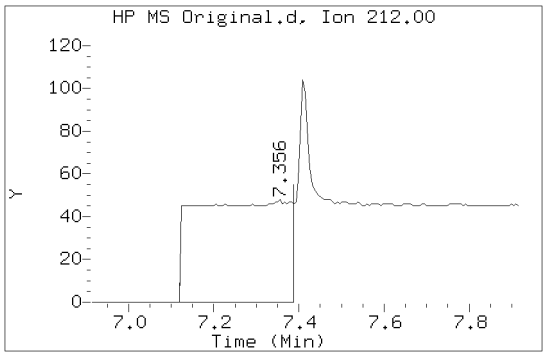
AFTER

MASS
122
AREA
102
HEIGHT
83
23-Jul-2024
14:32
ALSHS
S



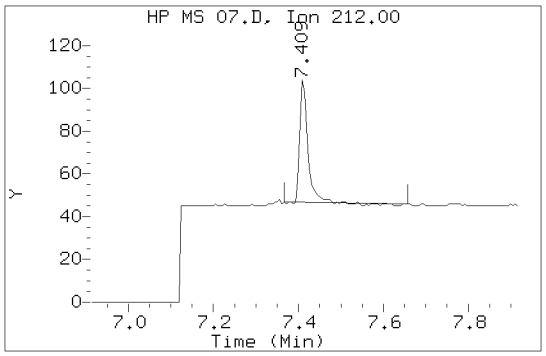
BEFORE

MASS
212
AREA
733
HEIGHT
48
29-Jun-2024
14:55
ALSHS
Server



AFTER

MASS
212
AREA
69
HEIGHT
57
23-Jul-2024
14:32
ALSHS
S

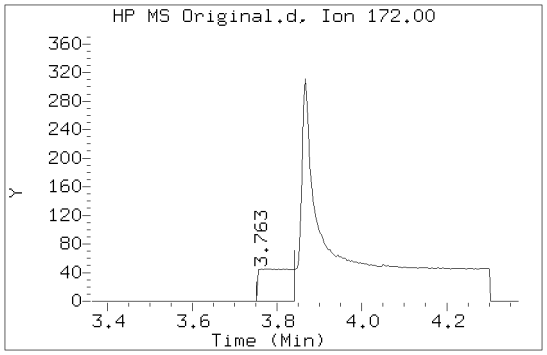


2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

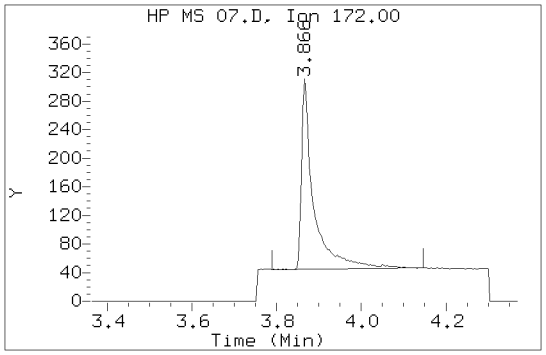
BEFORE

MASS
172
AREA
235
HEIGHT
45
29-Jun-2024
14:55
ALSHS
Server



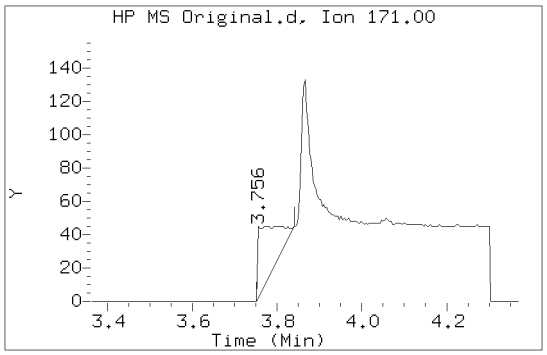
AFTER

MASS
172
AREA
525
HEIGHT
266
23-Jul-2024
14:32
ALSHS
S



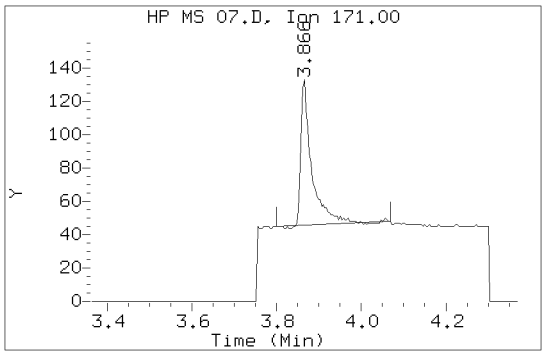
BEFORE

MASS
171
AREA
112
HEIGHT
43
29-Jun-2024
14:55
ALSHS
Server



AFTER

MASS
171
AREA
152
HEIGHT
87
23-Jul-2024
14:32
ALSHS
S



Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D Page 1
Report Date: 01-Jul-2024 08:34

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 29-JUN-2024 19:19
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240629.b\DXSIM.m
Meth Date : 01-Jul-2024 08:31 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	1.916	1.916	(1.000)	1978	0.10000	(aQ)
* 45 Naphthalene-d8	136	2.880	2.880	(1.000)	6976	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.318	2.318	(0.805)	1381	0.08000	0.06594(M)
* 86 Acenaphthene-d10	164	4.459	4.459	(1.000)	2152	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	3.866	3.866	(0.867)	2393	0.08000	0.07274(M)
* 126 Phenanthrene-d10	188	5.855	5.855	(1.000)	6903	0.10000	(M)
* 182 Chrysene-d12	240	8.366	8.366	(1.000)	6088	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.414	7.414	(0.886)	5754	0.08000	0.04639(M)
* 198 Perylene-d12	264	9.861	9.861	(1.000)	7898	0.10000	(M)
1 1,4-Dioxane	58	0.719	0.719	(0.376)	285	0.08000	0.06727(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D

Date : 29-JUN-2024 19:19

Client ID: 14DX-0.08

Instrument: SV6.i

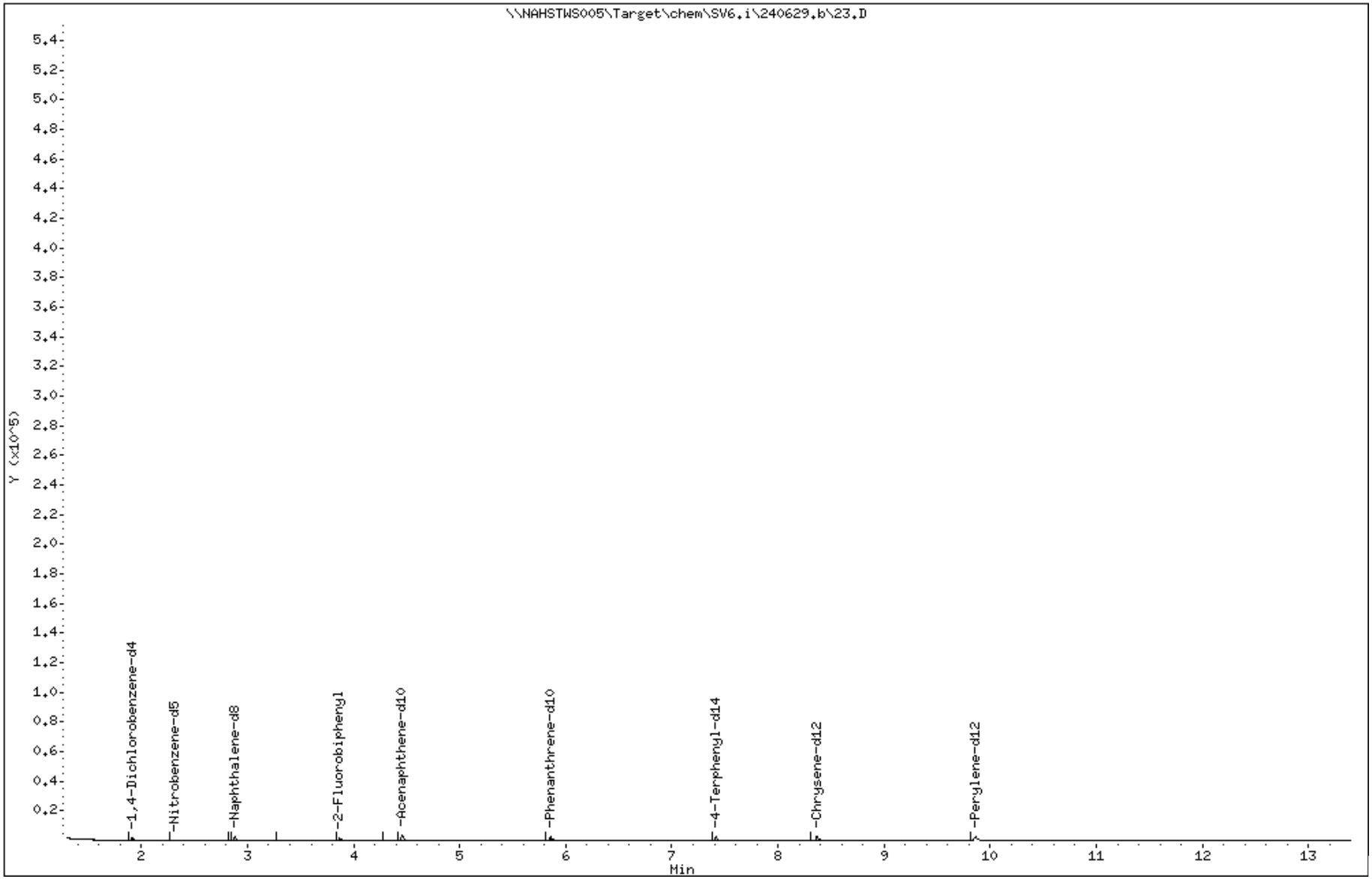
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

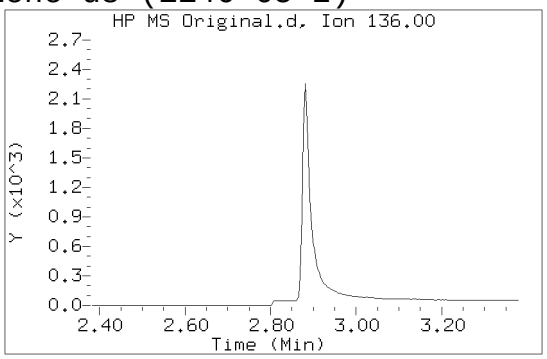


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

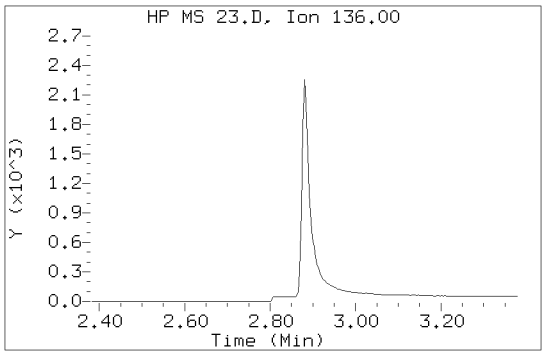
Naphthalene-d8 (1146-65-2)

Reason Code:

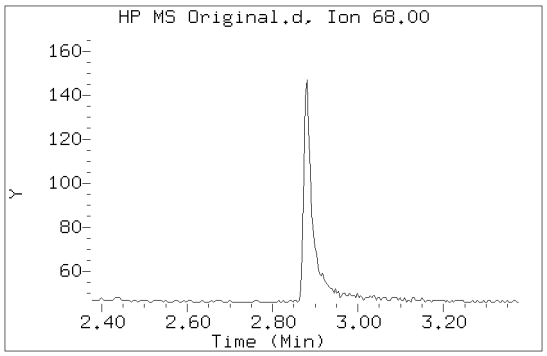
BEFORE
MASS
136
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



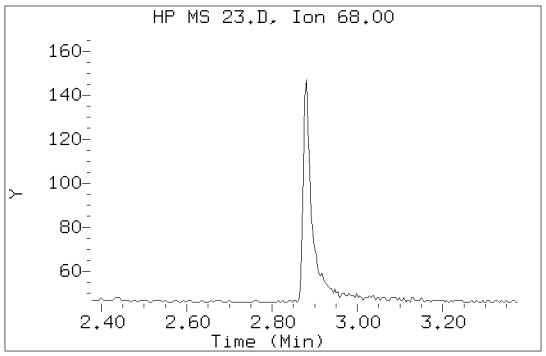
AFTER
MASS
136
AREA
6976
HEIGHT
2254
01-Jul-2024
08:34



BEFORE
MASS
68
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



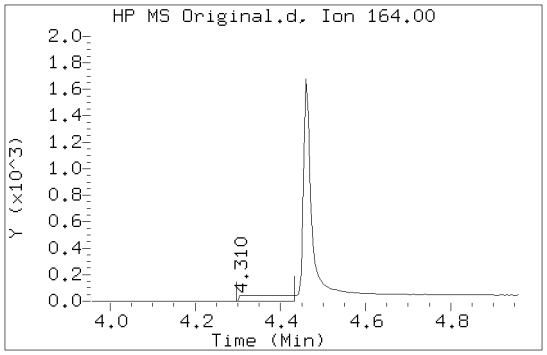
AFTER
MASS
68
AREA
0
HEIGHT
0
01-Jul-2024
08:34



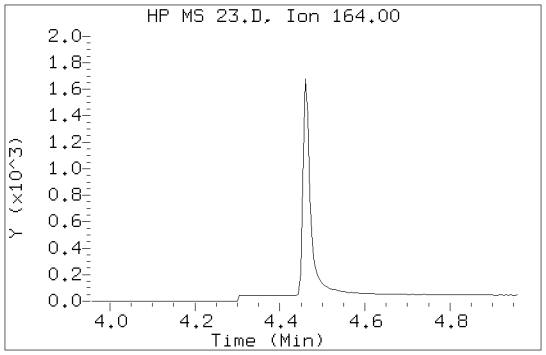
Acenaphthene-d10 (15067-26-2)

Reason Code:

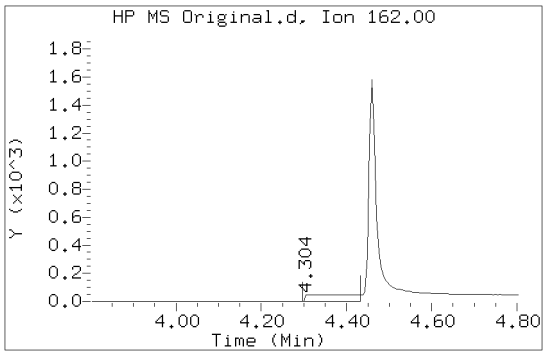
BEFORE
MASS
164
AREA
353
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server



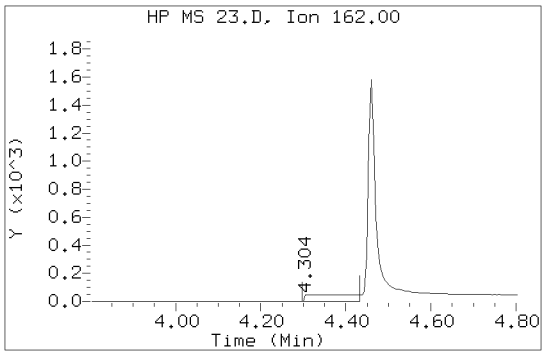
AFTER
MASS
164
AREA
2152
HEIGHT
1632
01-Jul-2024
08:34



BEFORE
MASS
162
AREA
353
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server



AFTER
MASS
162
AREA
353
HEIGHT
46
01-Jul-2024
08:34



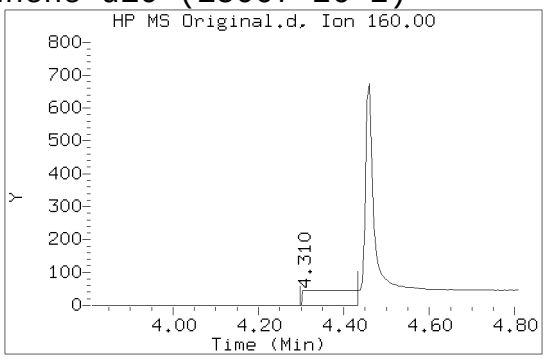
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Acenaphthene-d10 (15067-26-2)

Reason Code:

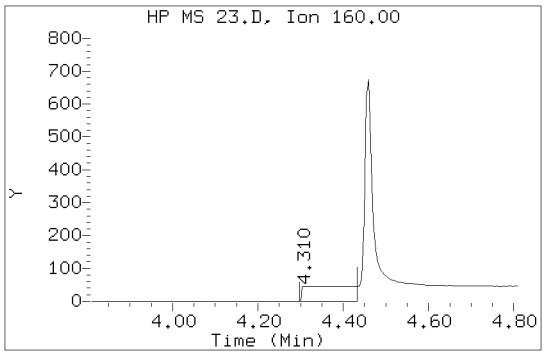
BEFORE

MASS
160
AREA
347
HEIGHT
45
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
160
AREA
347
HEIGHT
45
01-Jul-2024
08:34

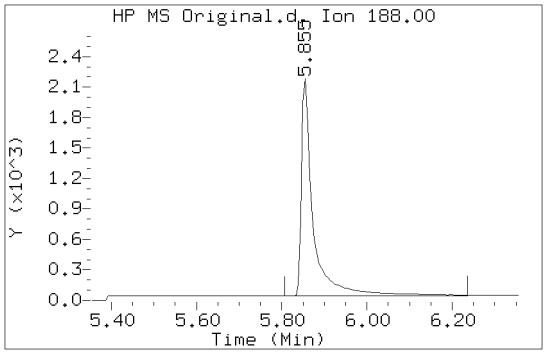


Phenanthrene-d10 (1517-22-2)

Reason Code:

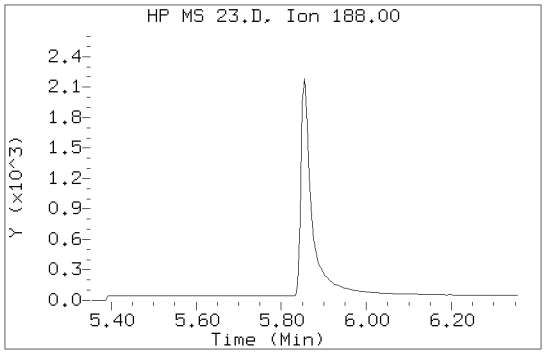
BEFORE

MASS
188
AREA
4105
HEIGHT
2138
29-Jun-2024
19:34
ALSHS
Server



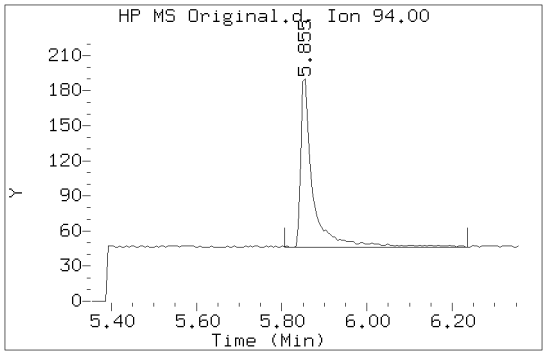
AFTER

MASS
188
AREA
6903
HEIGHT
2169
01-Jul-2024
08:34



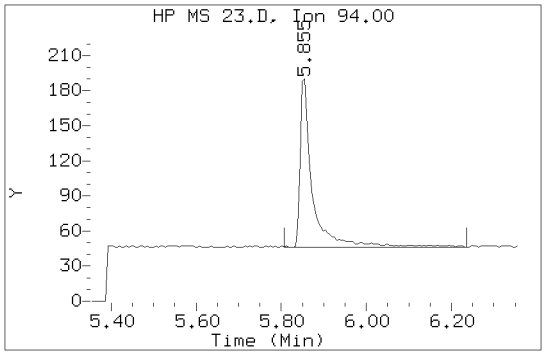
BEFORE

MASS
94
AREA
295
HEIGHT
144
29-Jun-2024
19:34
ALSHS
Server



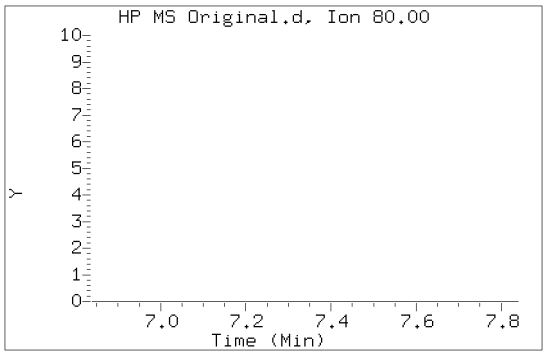
AFTER

MASS
94
AREA
295
HEIGHT
144
01-Jul-2024
08:34



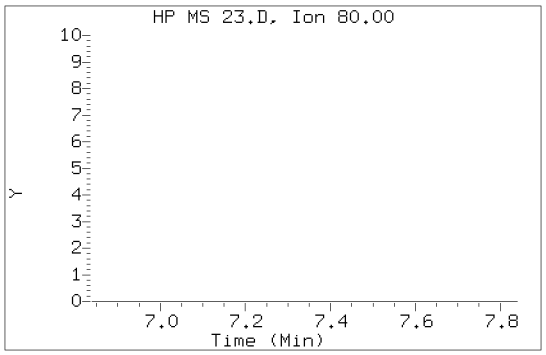
BEFORE

MASS
80
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
01-Jul-2024
08:34



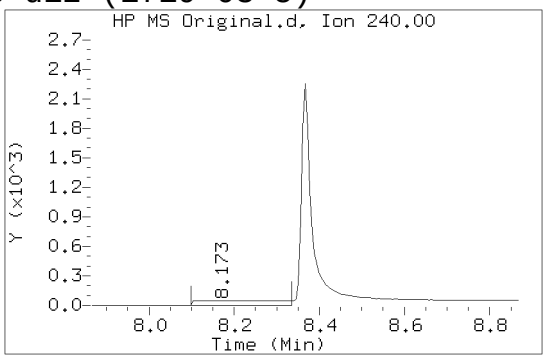
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

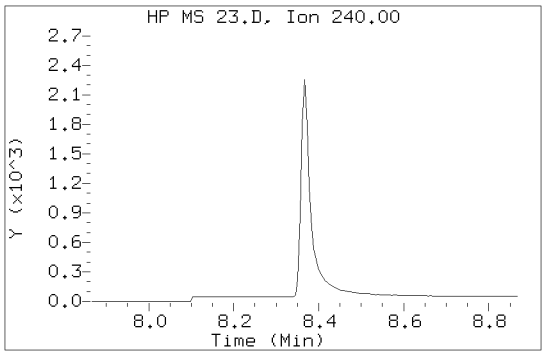
BEFORE

MASS
240
AREA
638
HEIGHT
46
29-Jun-2024
19:34
ALSHS
Server



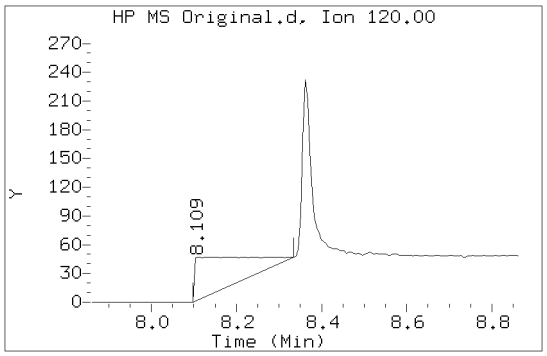
AFTER

MASS
240
AREA
6088
HEIGHT
2244
01-Jul-2024
08:34



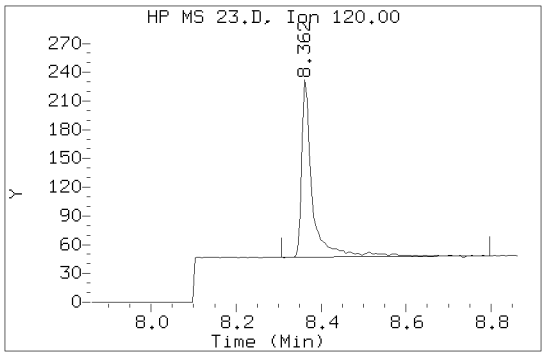
BEFORE

MASS
120
AREA
323
HEIGHT
44
29-Jun-2024
19:34
ALSHS
Server



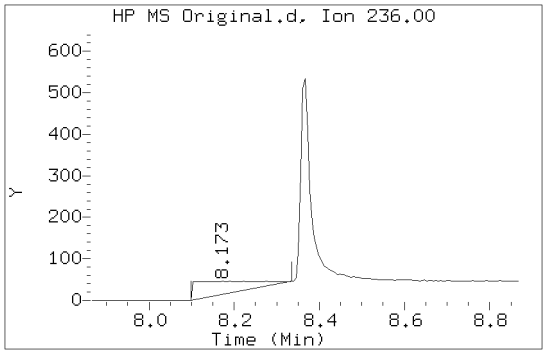
AFTER

MASS
120
AREA
325
HEIGHT
184
01-Jul-2024
08:34



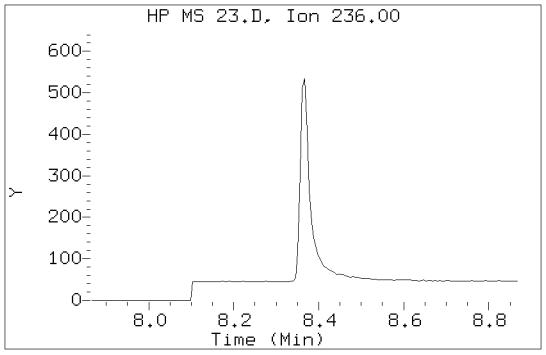
BEFORE

MASS
236
AREA
306
HEIGHT
31
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
236
AREA
894
HEIGHT
488
01-Jul-2024
08:34

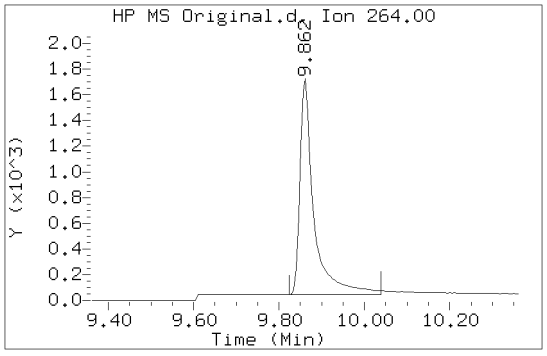


Perylene-d12 (1520-96-3)

Reason Code:

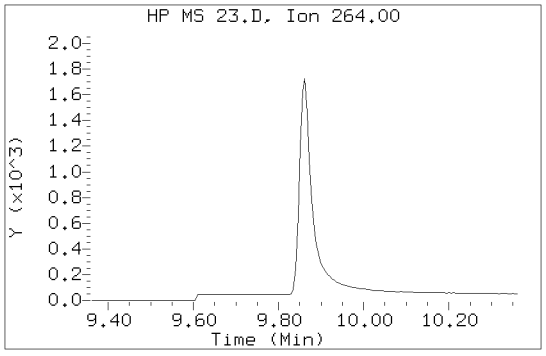
BEFORE

MASS
264
AREA
3817
HEIGHT
1679
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
264
AREA
7898
HEIGHT
1717
01-Jul-2024
08:34

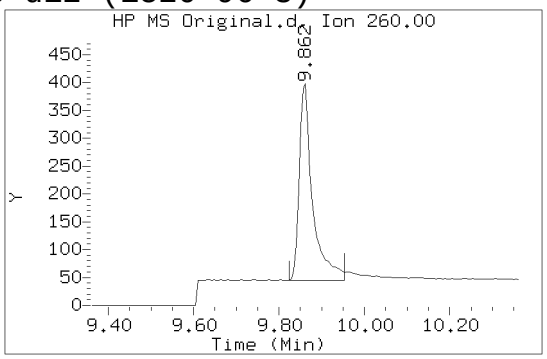


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

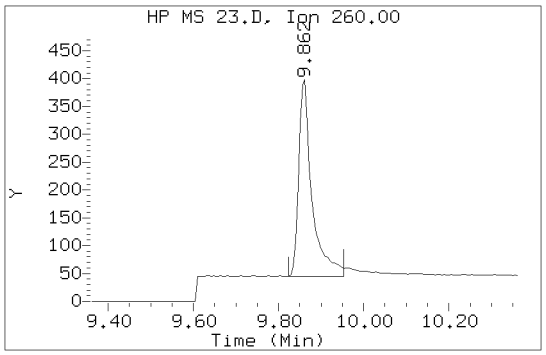
Perylene-d12 (1520-96-3)

Reason Code:

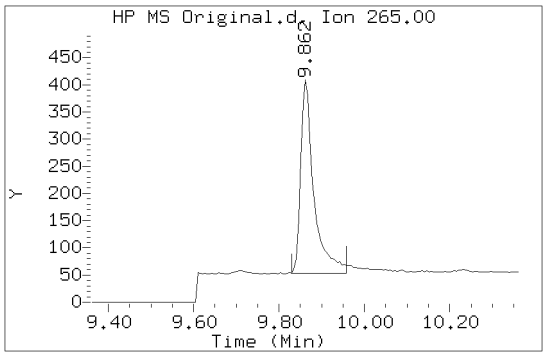
BEFORE
MASS
260
AREA
764
HEIGHT
353
29-Jun-2024
19:34
ALSHS
Server



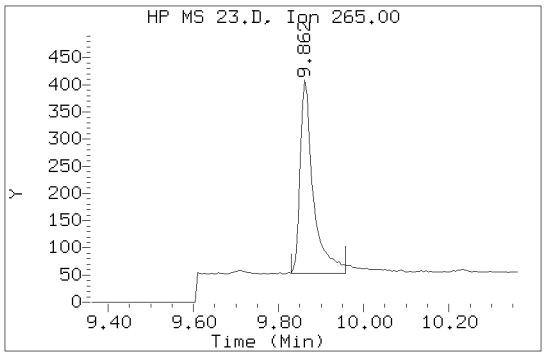
AFTER
MASS
260
AREA
764
HEIGHT
353
01-Jul-2024
08:34



BEFORE
MASS
265
AREA
769
HEIGHT
356
29-Jun-2024
19:34
ALSHS
Server



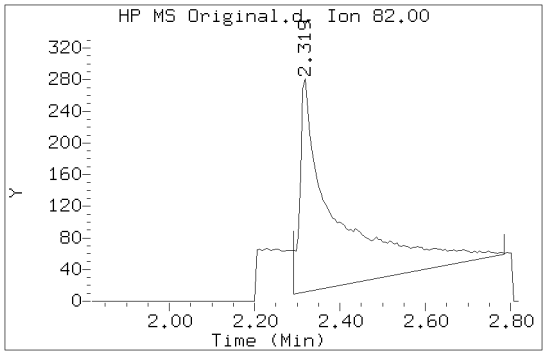
AFTER
MASS
265
AREA
769
HEIGHT
356
01-Jul-2024
08:34



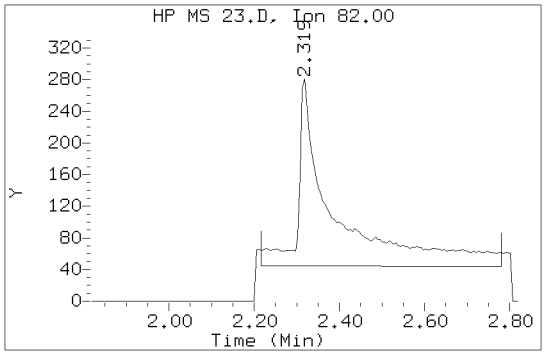
Nitrobenzene-d5 (4165-60-0)

Reason Code:

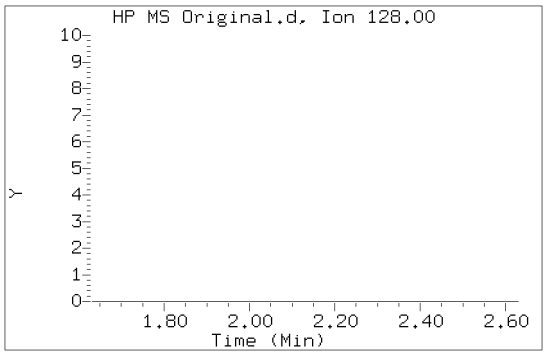
BEFORE
MASS
82
AREA
1609
HEIGHT
269
29-Jun-2024
19:34
ALSHS
Server



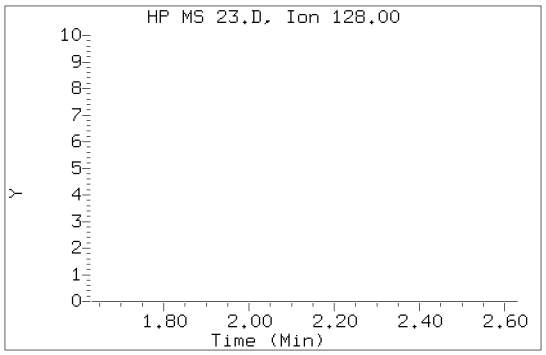
AFTER
MASS
82
AREA
1381
HEIGHT
236
01-Jul-2024
08:34



BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Jun-2024
19:34
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
01-Jul-2024
08:34



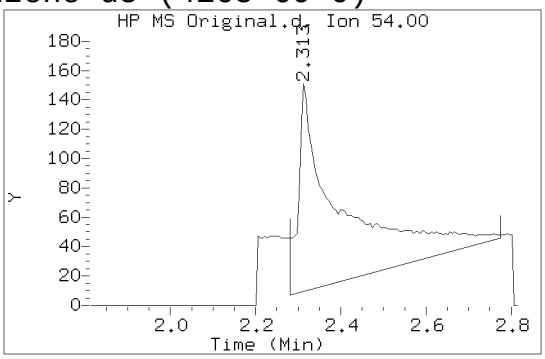
Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

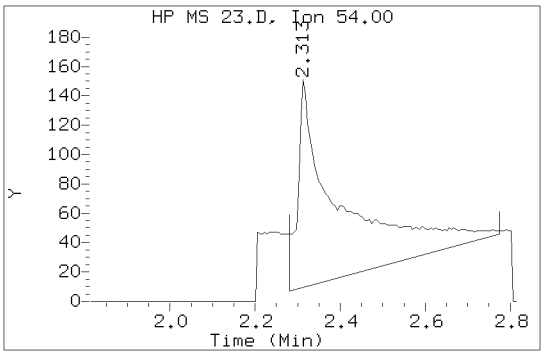
BEFORE

MASS
54
AREA
981
HEIGHT
141
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
54
AREA
981
HEIGHT
141
01-Jul-2024
08:34

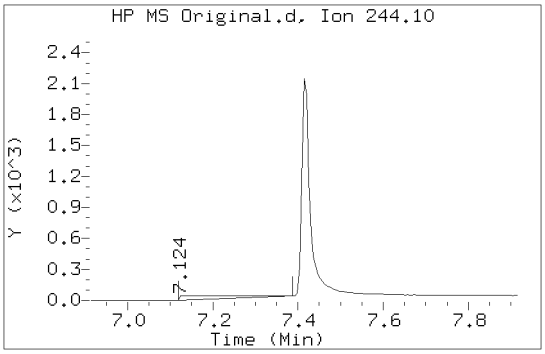


4-Terphenyl-d14 (1718-51-0)

Reason Code:

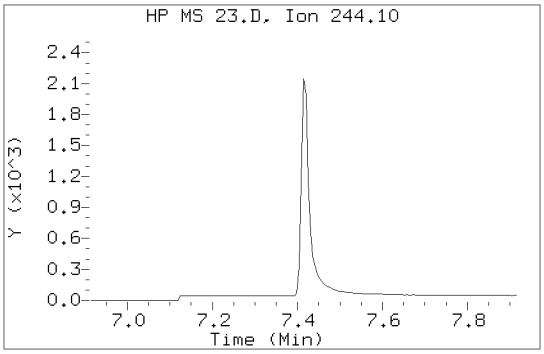
BEFORE

MASS
244.1
AREA
345
HEIGHT
44
29-Jun-2024
19:34
ALSHS
Server



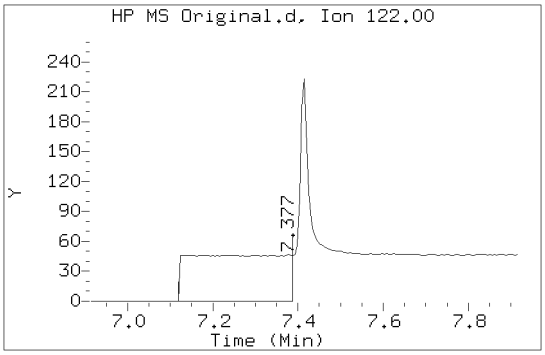
AFTER

MASS
244.1
AREA
5754
HEIGHT
2147
01-Jul-2024
08:34



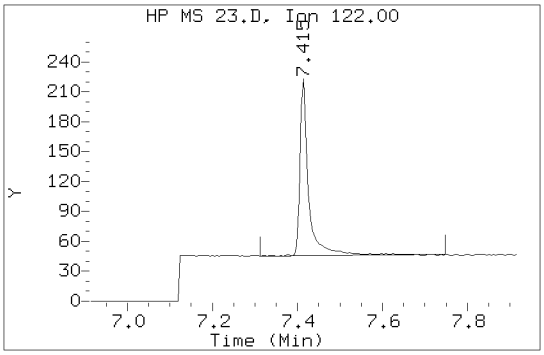
BEFORE

MASS
122
AREA
738
HEIGHT
47
29-Jun-2024
19:34
ALSHS
Server



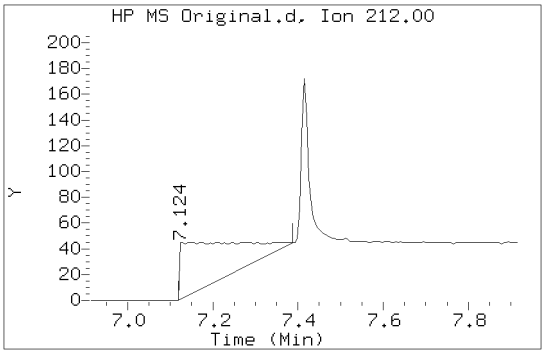
AFTER

MASS
122
AREA
249
HEIGHT
177
01-Jul-2024
08:34



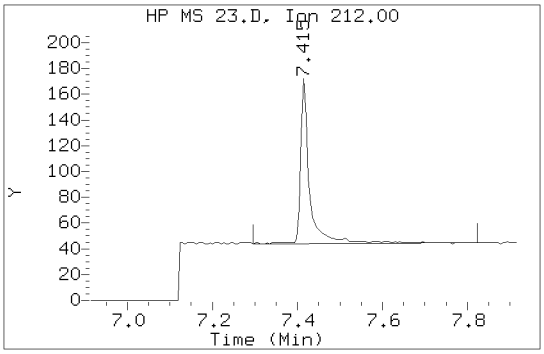
BEFORE

MASS
212
AREA
351
HEIGHT
44
29-Jun-2024
19:34
ALSHS
Server



AFTER

MASS
212
AREA
184
HEIGHT
127
01-Jul-2024
08:34

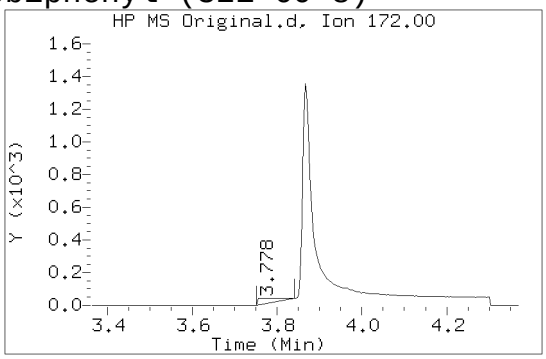


Data File : \\NAHSTWS005\Target\chem\SV6.i\240629.b\23.D
Inj Date : 29-JUN-2024 19:19
InstruID : SV6.i
LabSampID : 14DX-0.08

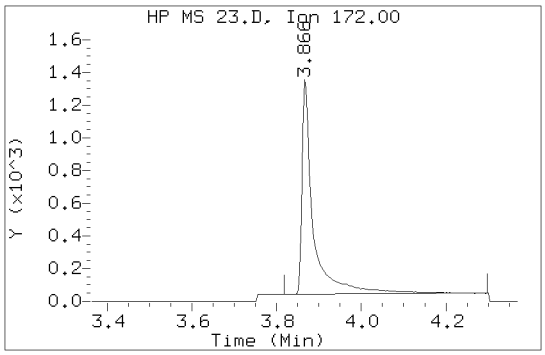
2-Fluorobiphenyl (321-60-8)

Reason Code:

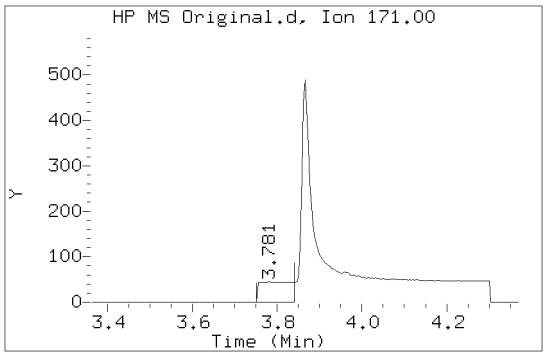
BEFORE
MASS
172
AREA
109
HEIGHT
31
29-Jun-2024
19:34
ALSHS
Server



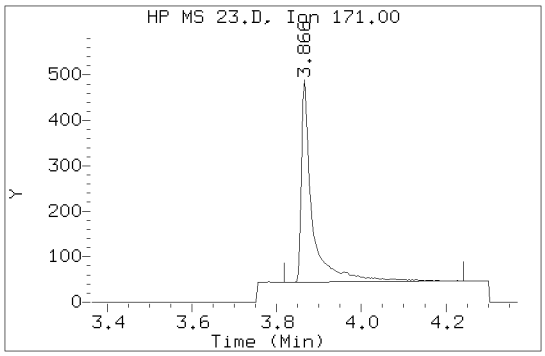
AFTER
MASS
172
AREA
2393
HEIGHT
1310
01-Jul-2024
08:34



BEFORE
MASS
171
AREA
233
HEIGHT
45
29-Jun-2024
19:34
ALSHS
Server



AFTER
MASS
171
AREA
791
HEIGHT
444
01-Jul-2024
08:34



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060899

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.170	5.571	-1.401	198	262912			0.00- 100.00	71.46
4.170	6.357	-2.187	51	62088			10.00- 80.00	23.62
4.170	6.357	-2.187	68	1330			0.00- 2.00	1.76
4.170	6.357	-2.187	69	75608			0.00- 0.00	28.76
4.170	6.357	-2.187	70	408			0.00- 2.00	0.54
4.170	6.357	-2.187	127	104440			10.00- 80.00	39.72
4.170	6.357	-2.187	197	996			0.00- 2.00	0.38
4.170	6.357	-2.187	199	17632			5.00- 9.00	6.71
4.170	6.357	-2.187	275	79880			10.00- 60.00	30.38
4.170	6.357	-2.187	365	10437			1.00- 100.00	3.97
4.170	6.357	-2.187	441	53968			0.01- 99.99	74.32
4.170	6.357	-2.187	442	367904			50.00- 150.00	139.93
4.170	6.357	-2.187	443	72612			15.00- 24.00	19.74

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588

93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1

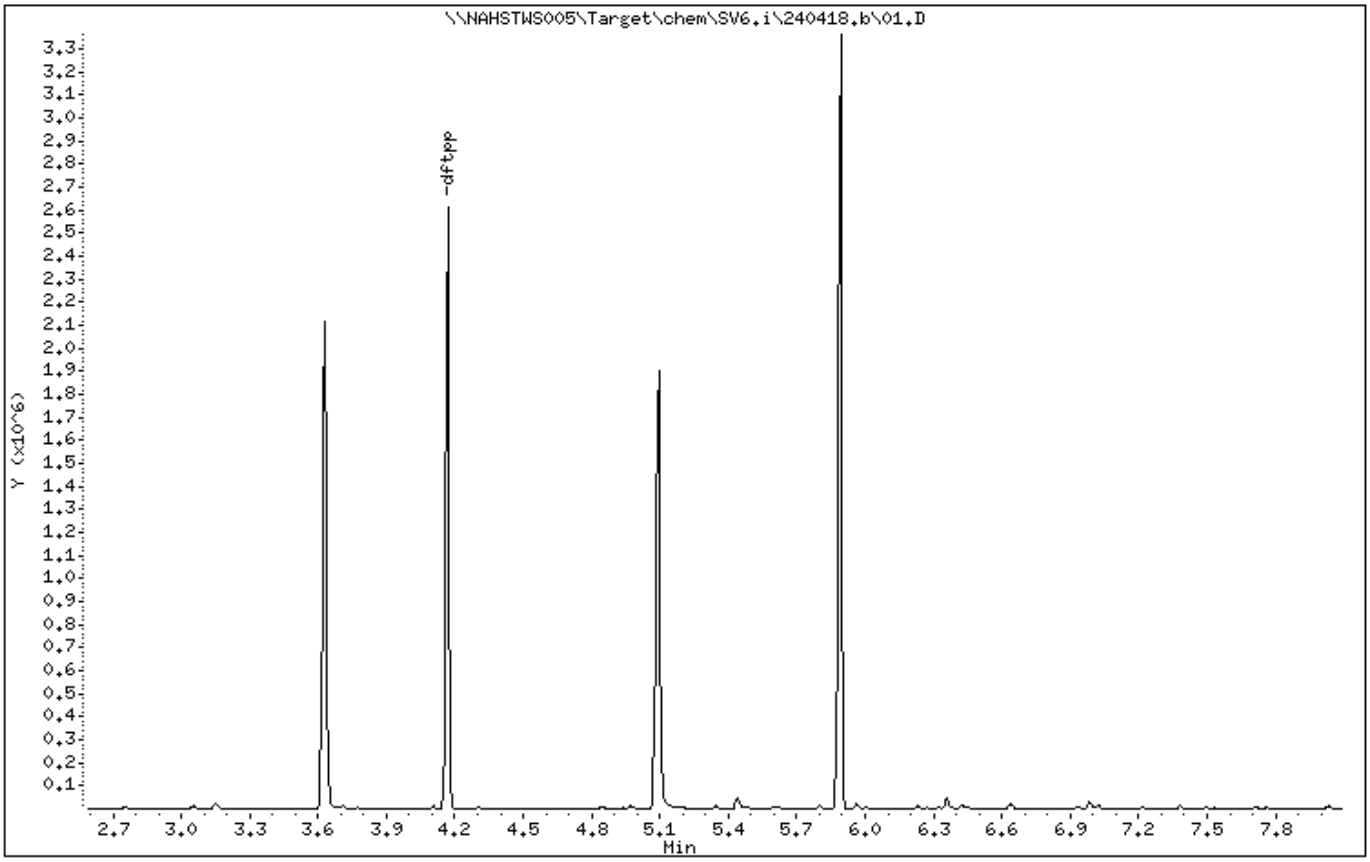
Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

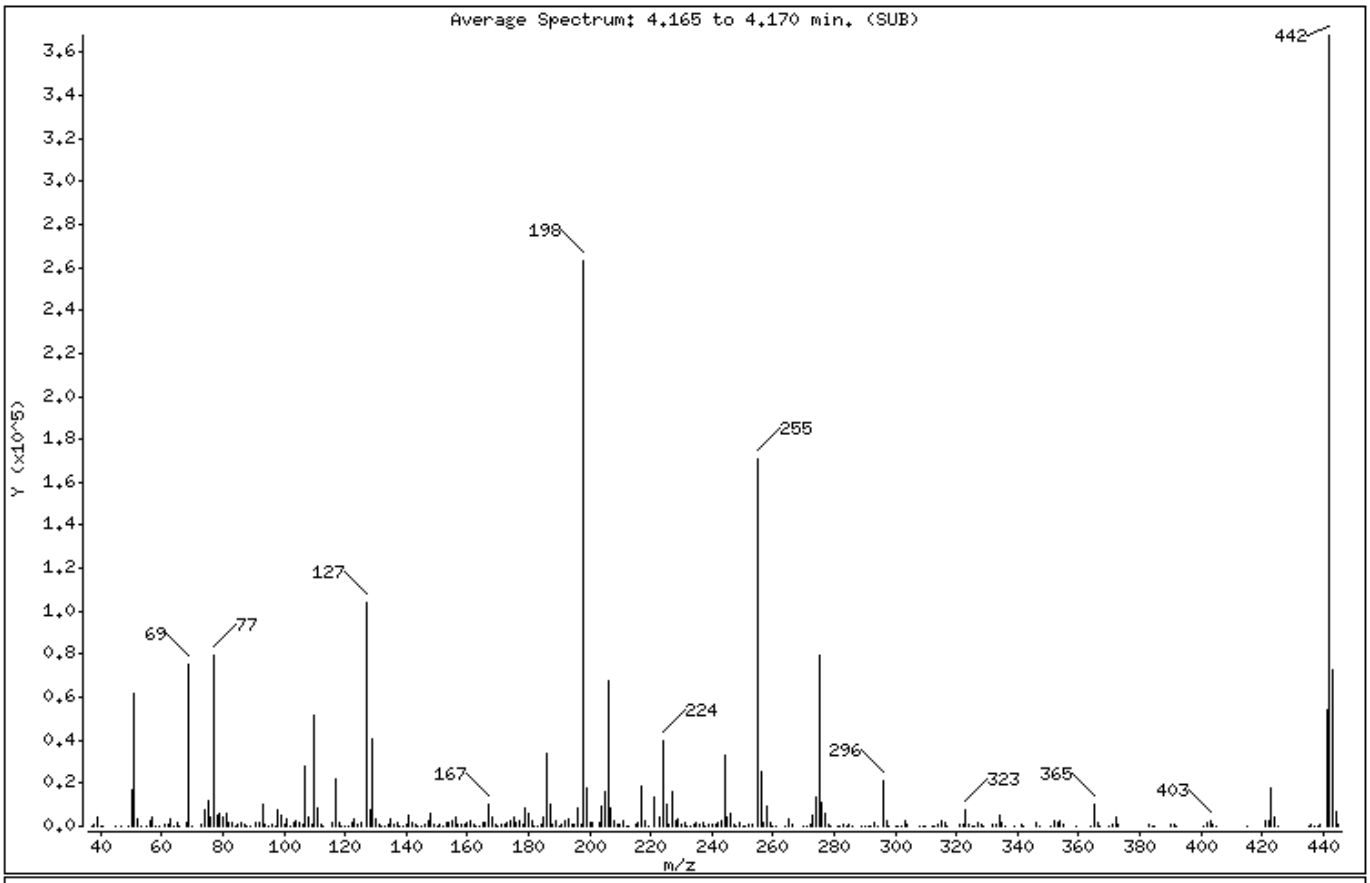
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 3

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 4

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588
93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File : \\nahstws005\target\chem\sv6.i\240418.b\01.d
Inj Date : 18-APR-2024 10:39
InstruID : SV6.i
LabSampID : DFTPP

 NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 18-APR-2024 12:24
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:24 Cal File: 03A.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3251	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	10577	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	2161	0.08000	0.06806(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6678	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	6691	0.08000	0.06554(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	13232	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	12125	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	14251	0.08000	0.05769(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	11098	0.10000	(M)
1 1,4-Dioxane	58	0.834	0.820	(0.400)	503	0.08000	0.07223(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D

Date : 18-APR-2024 12:24

Client ID: 14DX-0.08

Instrument: SV6.i

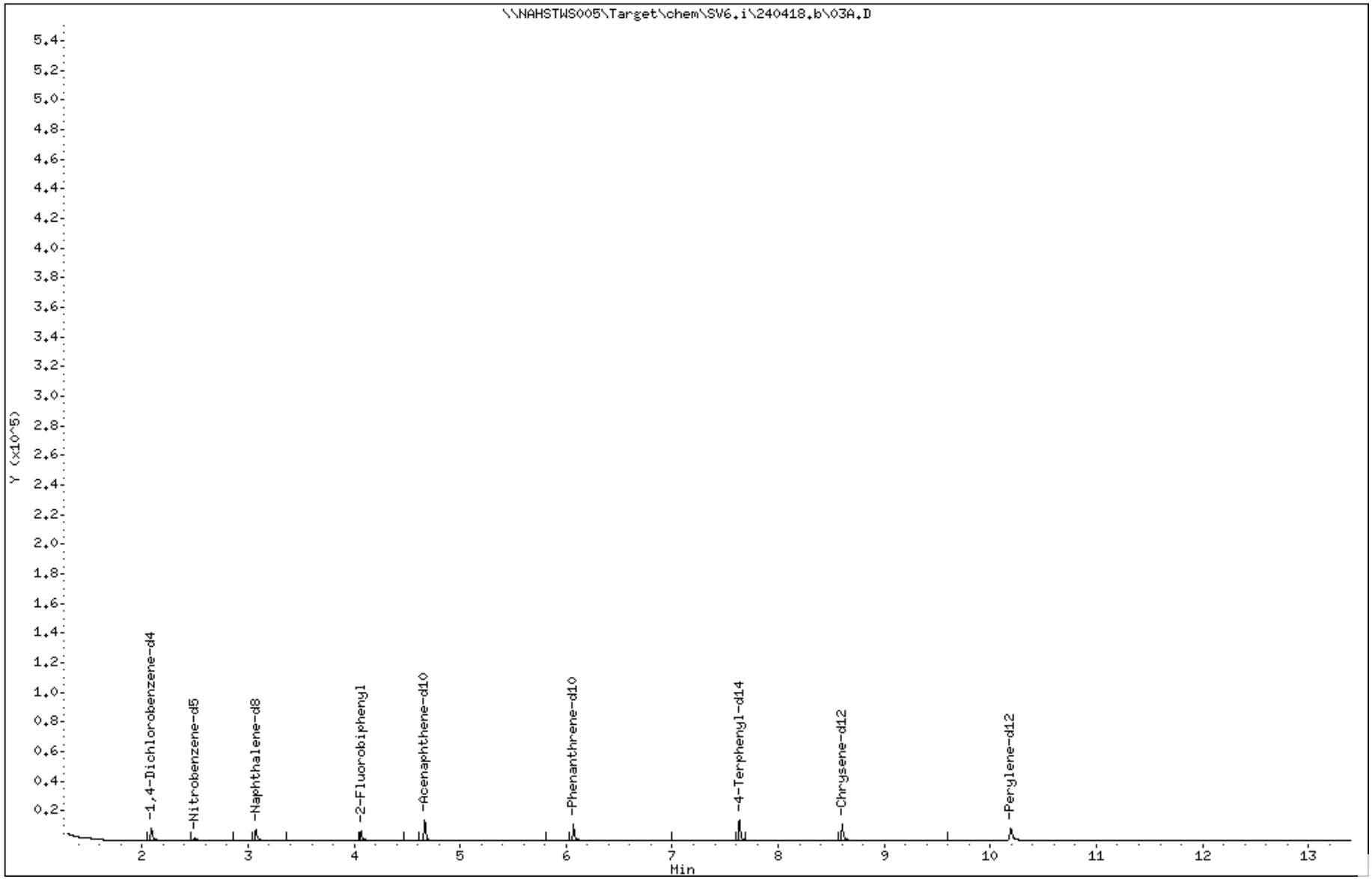
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

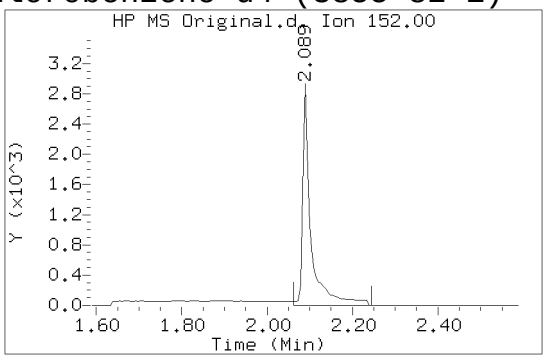


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

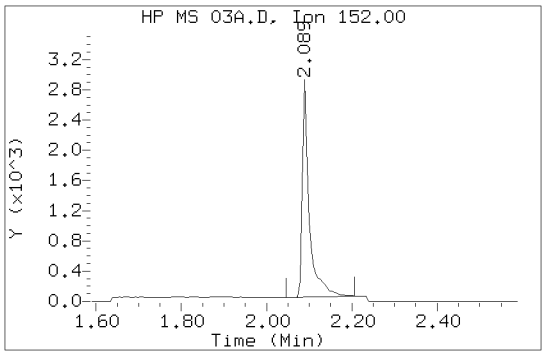
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

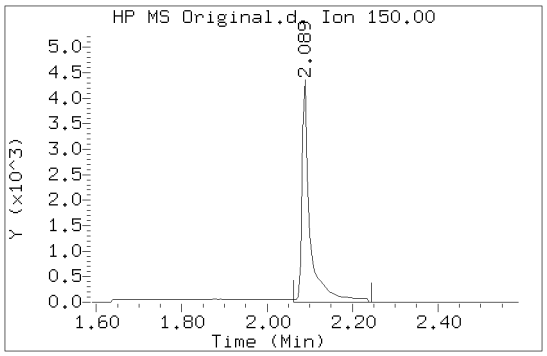
BEFORE
MASS
152
AREA
3915
HEIGHT
2934
18-Apr-2024
12:42
ALSHS
Server



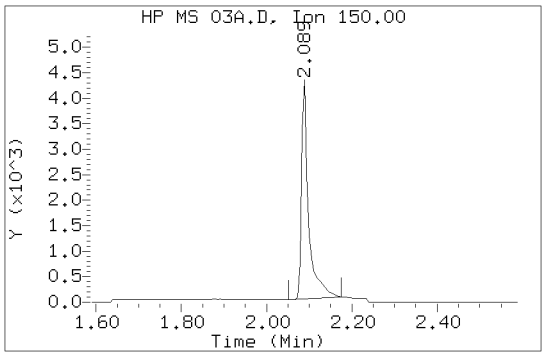
AFTER
MASS
152
AREA
3251
HEIGHT
2876
28-May-2024
13:05



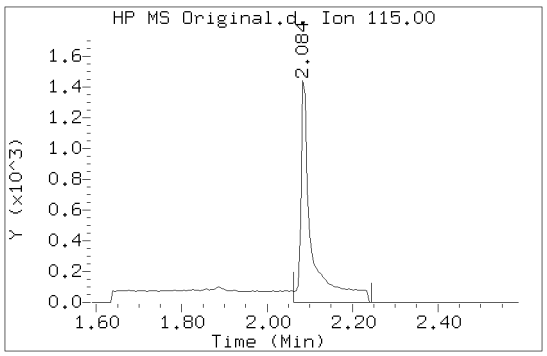
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AREA
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HEIGHT
4359
18-Apr-2024
12:42
ALSHS
Server



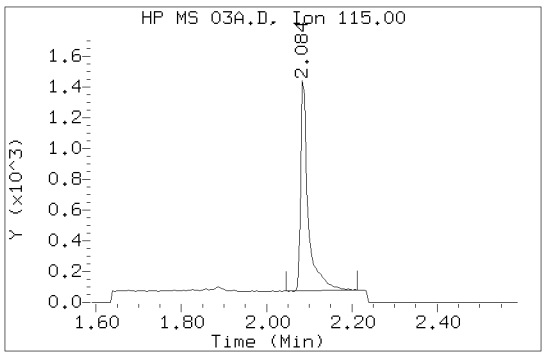
AFTER
MASS
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AREA
4924
HEIGHT
4290
28-May-2024
13:05



BEFORE
MASS
115
AREA
2519
HEIGHT
1442
18-Apr-2024
12:42
ALSHS
Server



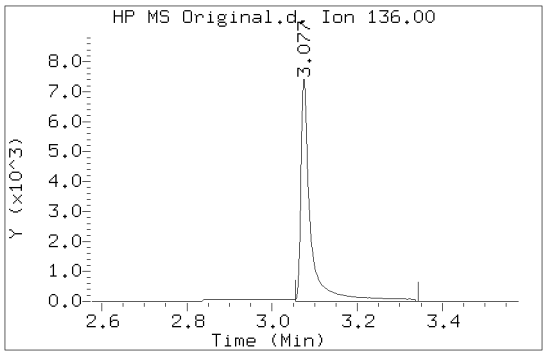
AFTER
MASS
115
AREA
1685
HEIGHT
1365
28-May-2024
13:05



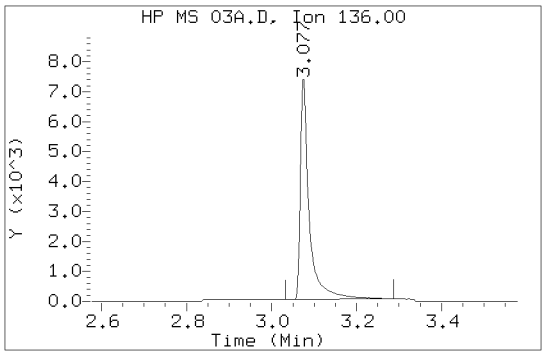
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11842
HEIGHT
7402
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
136
AREA
10577
HEIGHT
7340
28-May-2024
13:05



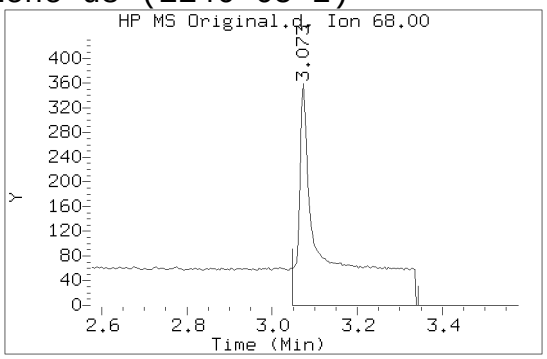
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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

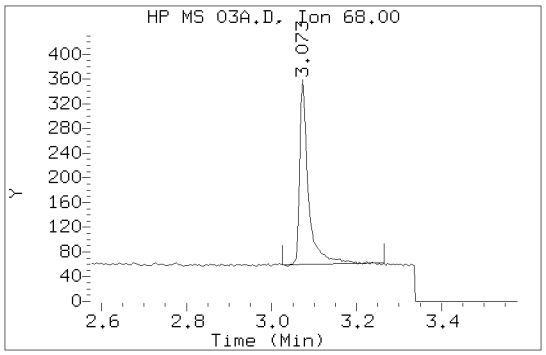
BEFORE

MASS
68
AREA
1473
HEIGHT
359
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
68
AREA
417
HEIGHT
299
28-May-2024
13:05

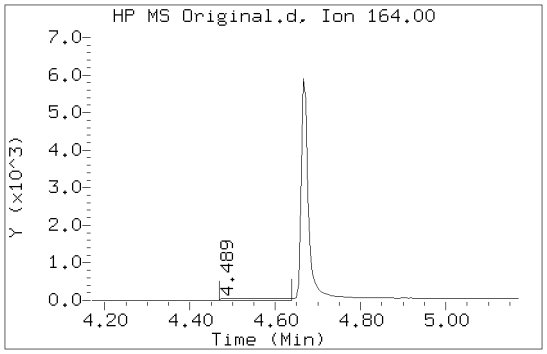


Acenaphthene-d10 (15067-26-2)

Reason Code:

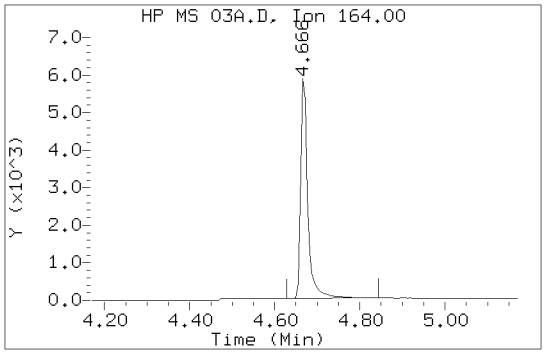
BEFORE

MASS
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AREA
527
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



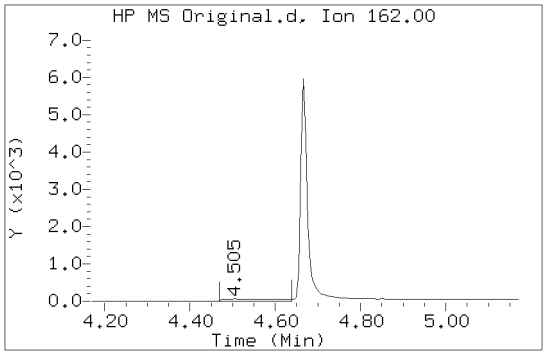
AFTER

MASS
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AREA
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HEIGHT
5851
28-May-2024
13:05



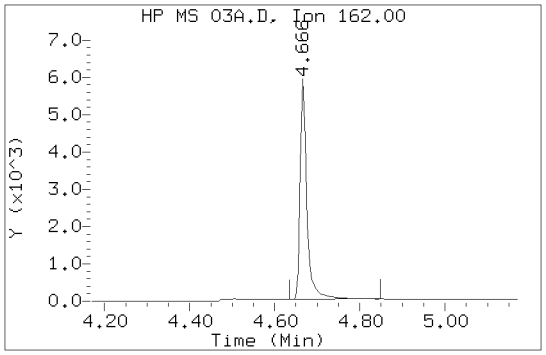
BEFORE

MASS
162
AREA
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HEIGHT
61
18-Apr-2024
12:42
ALSHS
Server



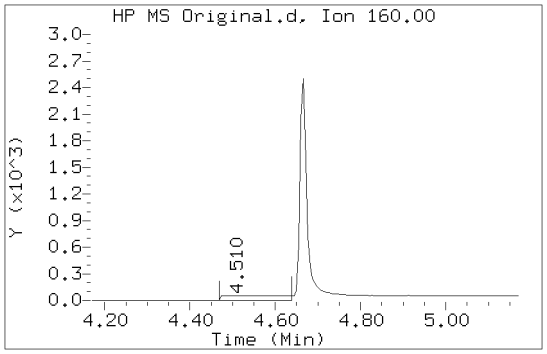
AFTER

MASS
162
AREA
6371
HEIGHT
5906
28-May-2024
13:05



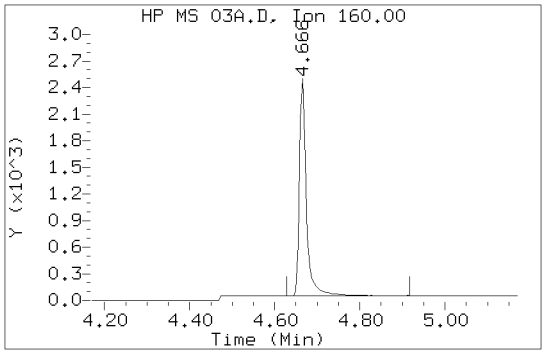
BEFORE

MASS
160
AREA
507
HEIGHT
51
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
160
AREA
2763
HEIGHT
2449
28-May-2024
13:05

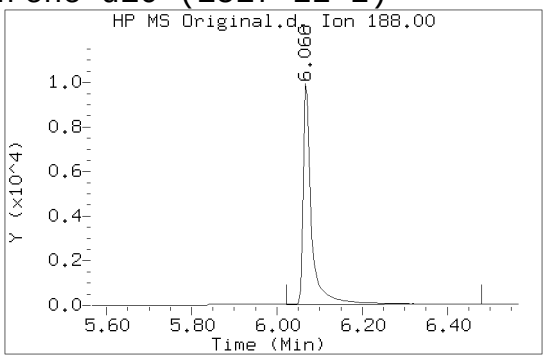


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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

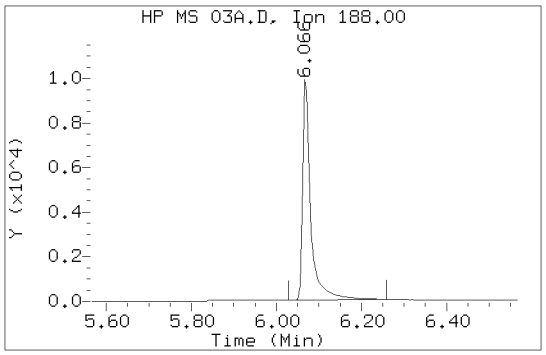
Phenanthrene-d10 (1517-22-2)

Reason Code:

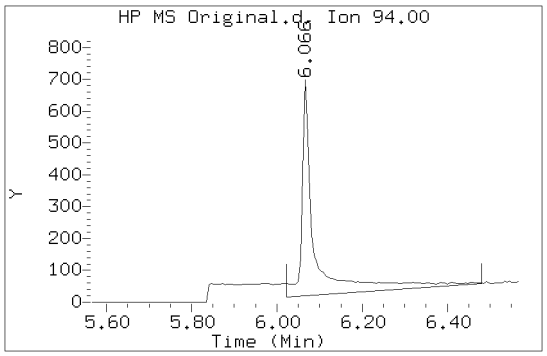
BEFORE
MASS
188
AREA
14212
HEIGHT
9923
18-Apr-2024
12:42
ALSHS
Server



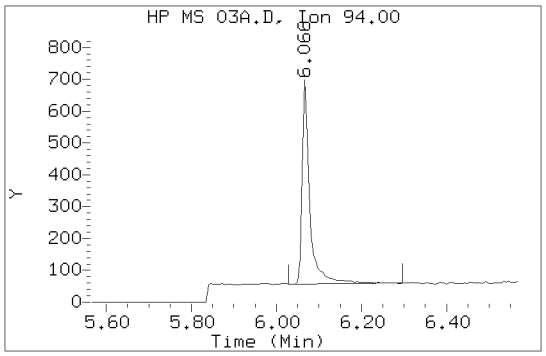
AFTER
MASS
188
AREA
13232
HEIGHT
9886
28-May-2024
13:05



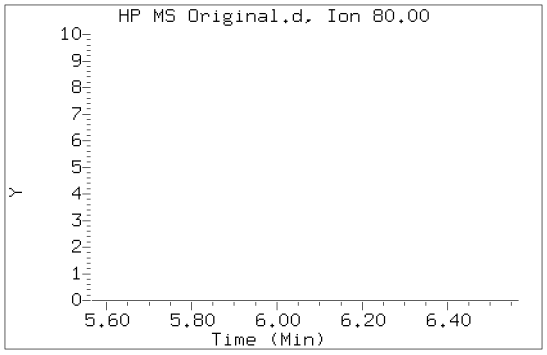
BEFORE
MASS
94
AREA
1408
HEIGHT
677
18-Apr-2024
12:42
ALSHS
Server



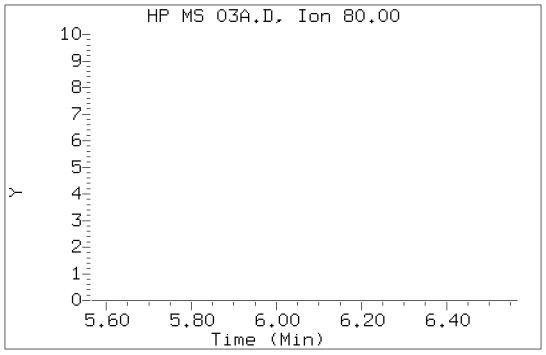
AFTER
MASS
94
AREA
802
HEIGHT
640
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



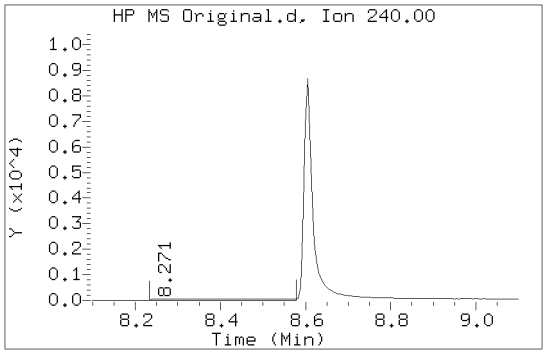
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



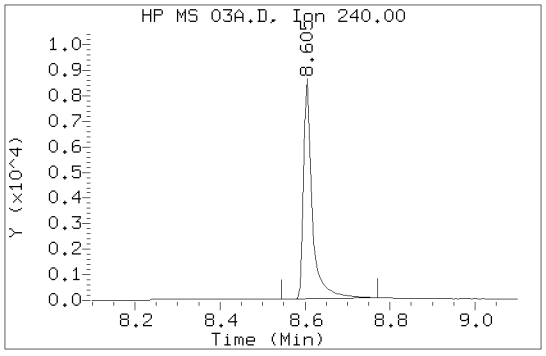
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
1046
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
240
AREA
12125
HEIGHT
8606
28-May-2024
13:05



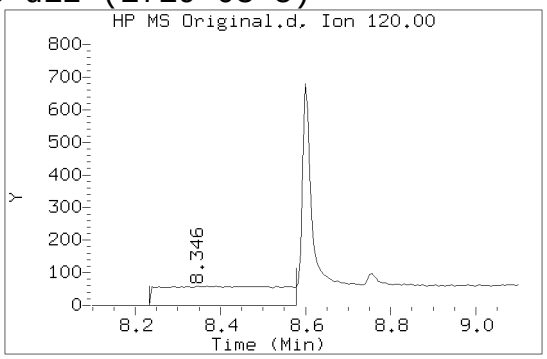
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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

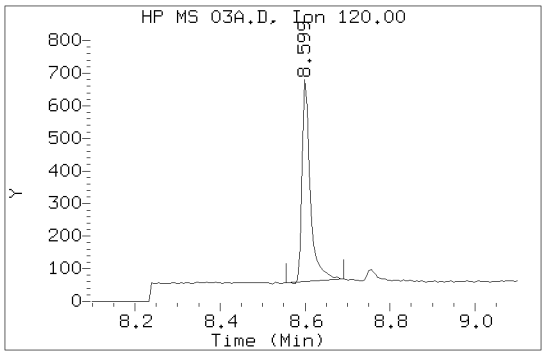
BEFORE

MASS
120
AREA
1175
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



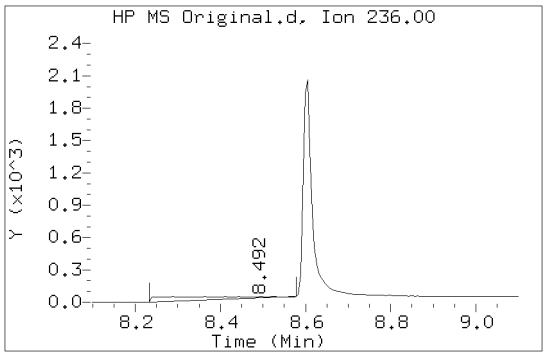
AFTER

MASS
120
AREA
821
HEIGHT
619
28-May-2024
13:05



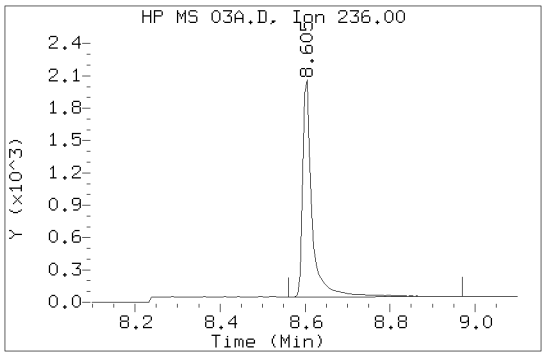
BEFORE

MASS
236
AREA
485
HEIGHT
13
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
236
AREA
3066
HEIGHT
2012
28-May-2024
13:05

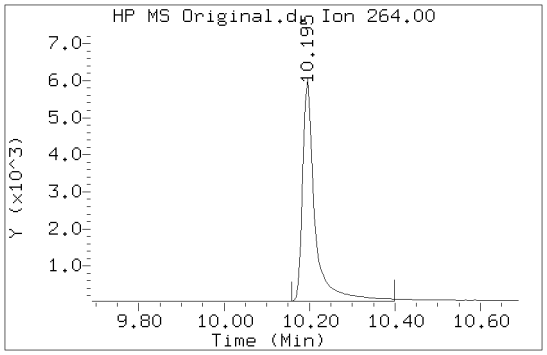


Perylene-d12 (1520-96-3)

Reason Code:

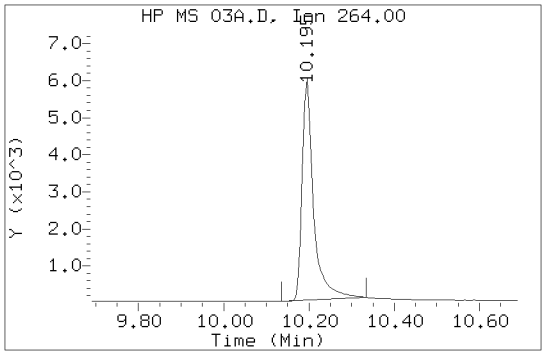
BEFORE

MASS
264
AREA
11914
HEIGHT
5992
18-Apr-2024
12:42
ALSHS
Server



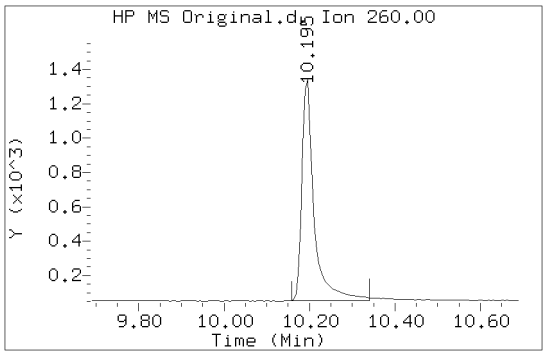
AFTER

MASS
264
AREA
11098
HEIGHT
5966
28-May-2024
13:05



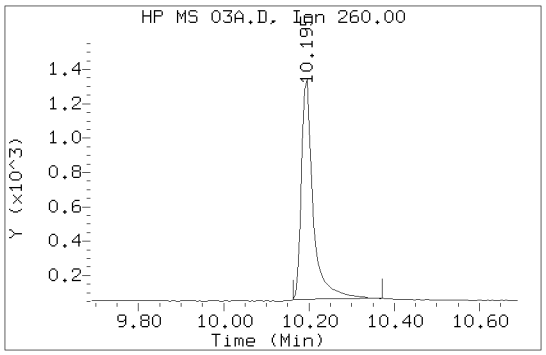
BEFORE

MASS
260
AREA
2543
HEIGHT
1286
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
260
AREA
2442
HEIGHT
1278
28-May-2024
13:05



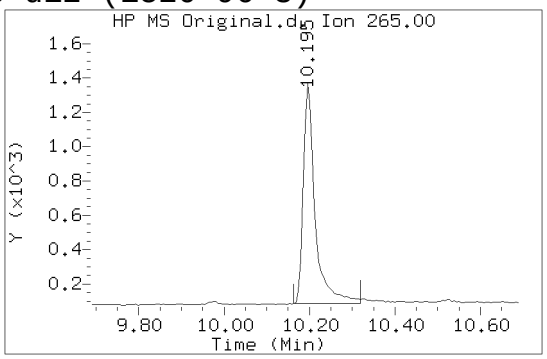
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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

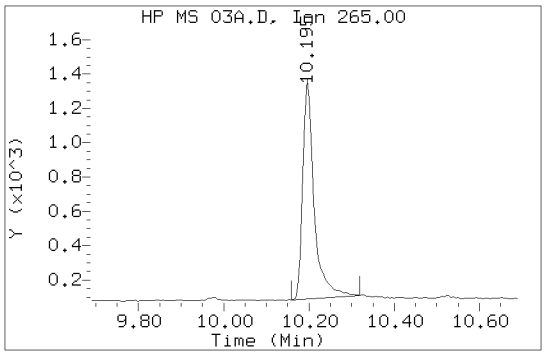
BEFORE

MASS
265
AREA
2459
HEIGHT
1281
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
265
AREA
2359
HEIGHT
1277
28-May-2024
13:05

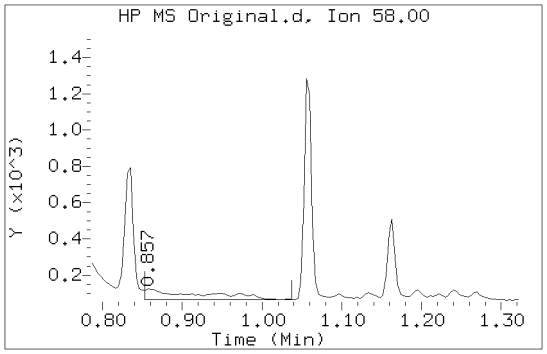


1,4-Dioxane ()

Reason Code:

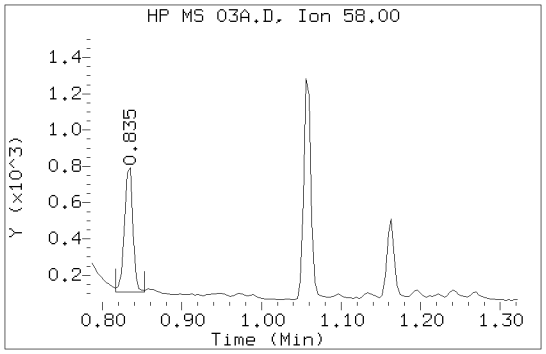
BEFORE

MASS
58
AREA
288
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



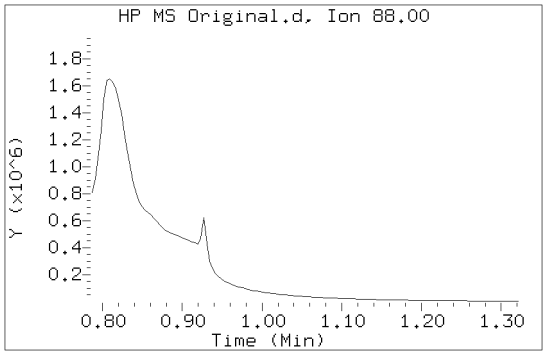
AFTER

MASS
58
AREA
503
HEIGHT
686
28-May-2024
13:05



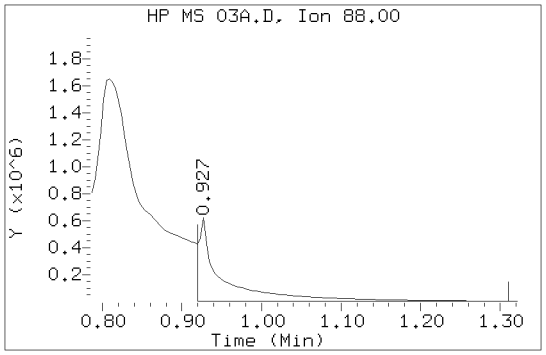
BEFORE

MASS
88
AREA
1284716
HEIGHT
617517
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
88
AREA
1274387
HEIGHT
617087
28-May-2024
13:05

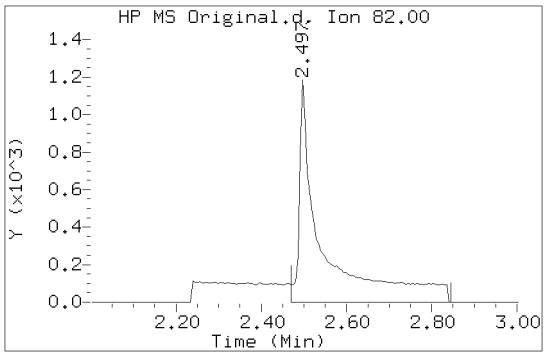


Nitrobenzene-d5 (4165-60-0)

Reason Code:

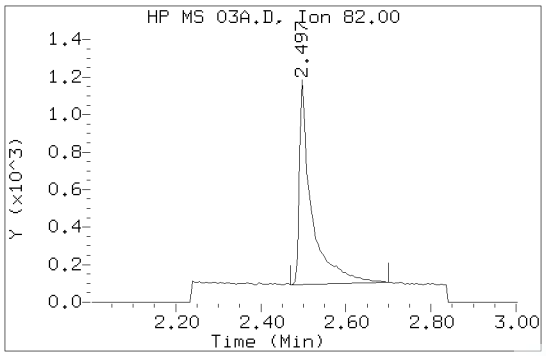
BEFORE

MASS
82
AREA
4330
HEIGHT
1185
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
82
AREA
2161
HEIGHT
1090
28-May-2024
13:05

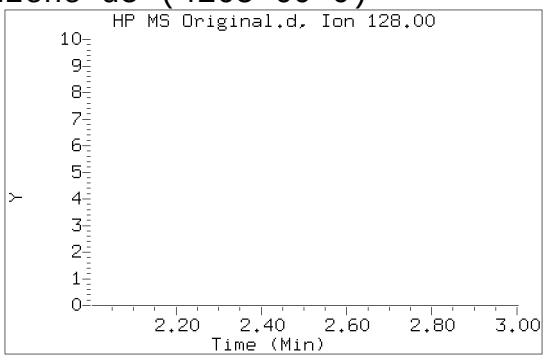


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InstruID : SV6.i
LabSampID : 14DX-0.08

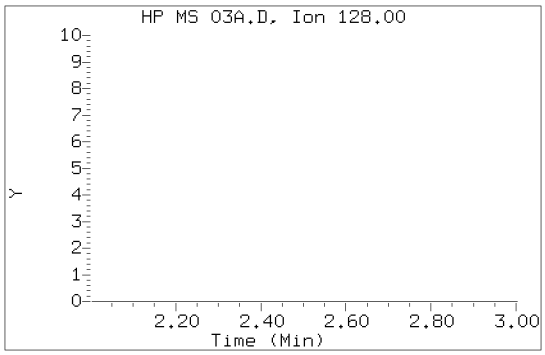
Nitrobenzene-d5 (4165-60-0)

Reason Code:

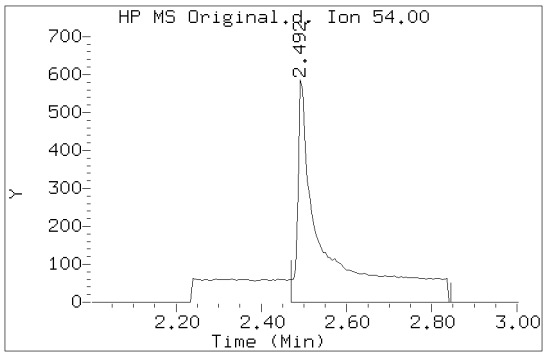
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



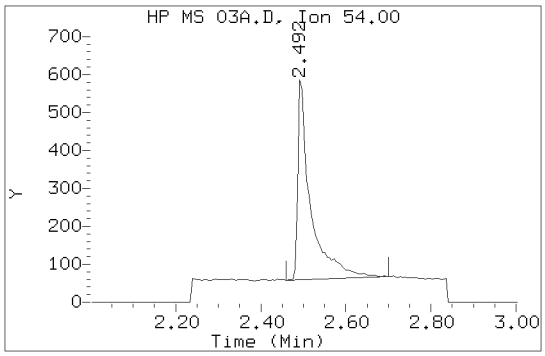
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
2489
HEIGHT
586
18-Apr-2024
12:42
ALSHS
Server



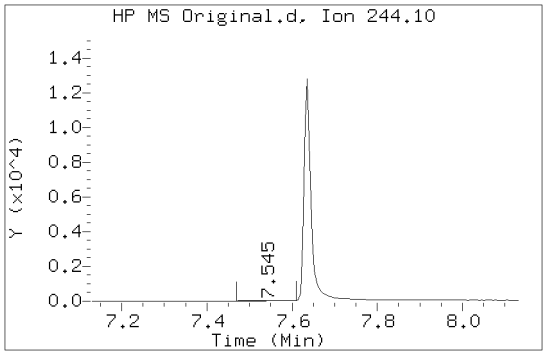
AFTER
MASS
54
AREA
1100
HEIGHT
526
28-May-2024
13:05



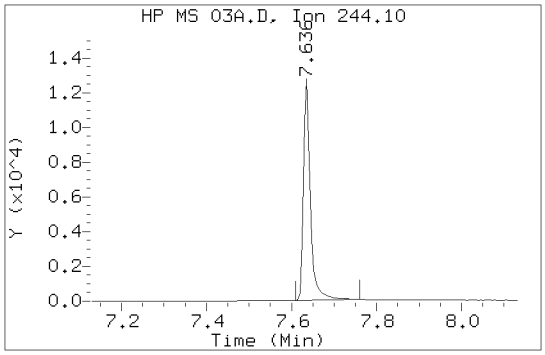
4-Terphenyl-d14 (1718-51-0)

Reason Code:

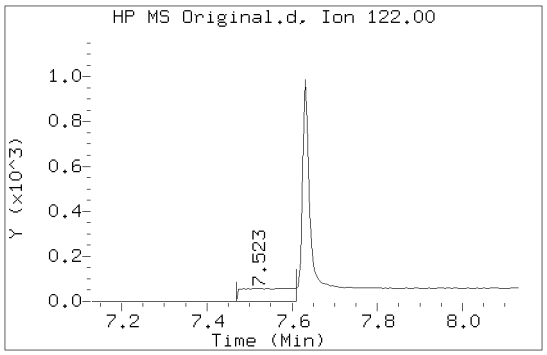
BEFORE
MASS
244.1
AREA
193
HEIGHT
23
18-Apr-2024
12:42
ALSHS
Server



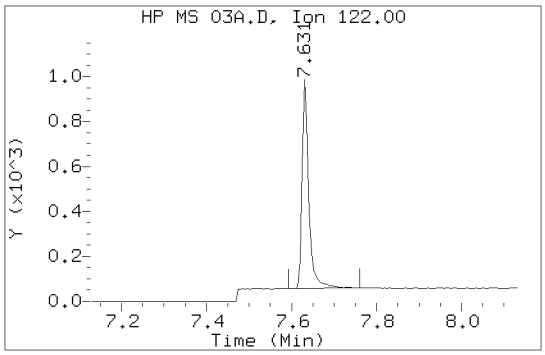
AFTER
MASS
244.1
AREA
14251
HEIGHT
12746
28-May-2024
13:05



BEFORE
MASS
122
AREA
473
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
122
AREA
1008
HEIGHT
928
28-May-2024
13:05



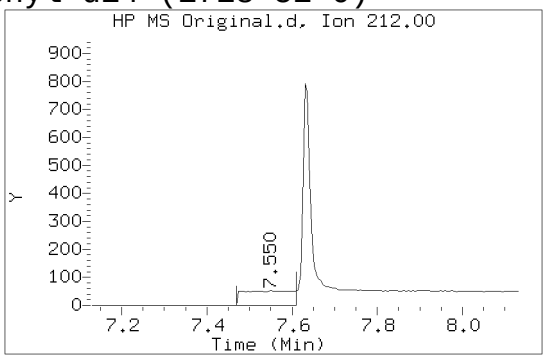
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Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

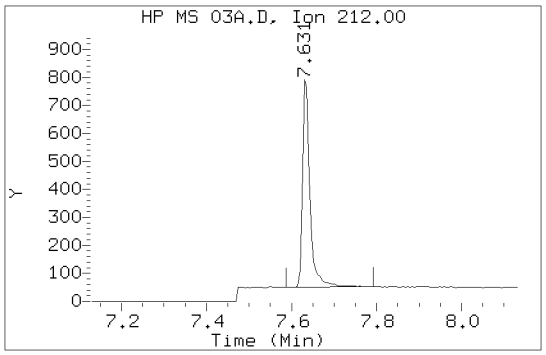
BEFORE

MASS
212
AREA
422
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
212
AREA
890
HEIGHT
741
28-May-2024
13:05

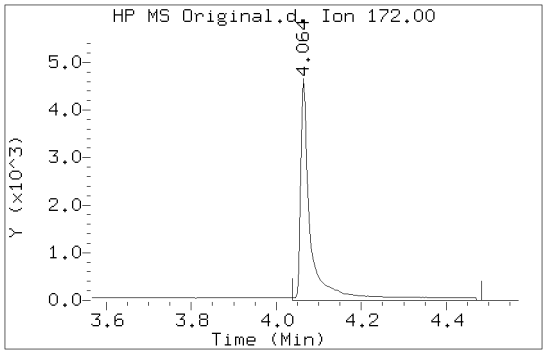


2-Fluorobiphenyl (321-60-8)

Reason Code:

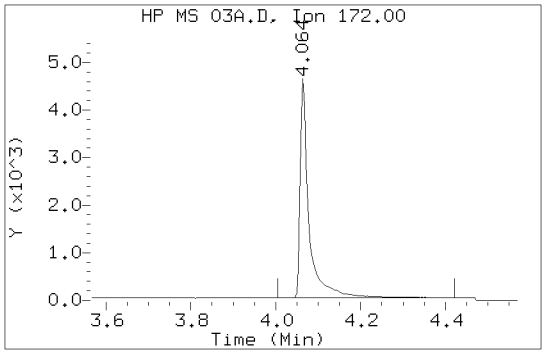
BEFORE

MASS
172
AREA
8151
HEIGHT
4659
18-Apr-2024
12:42
ALSHS
Server



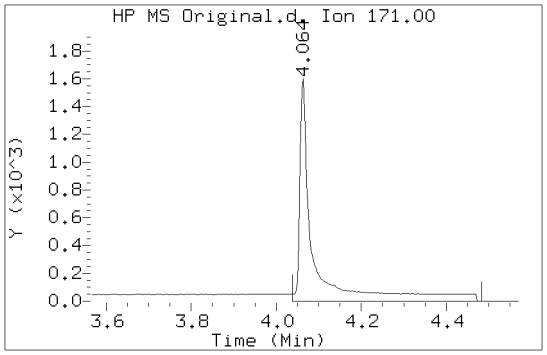
AFTER

MASS
172
AREA
6691
HEIGHT
4608
28-May-2024
13:05



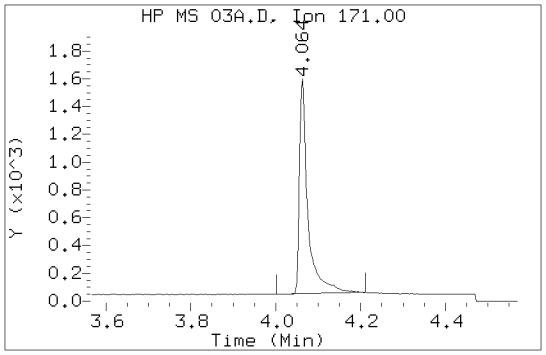
BEFORE

MASS
171
AREA
3618
HEIGHT
1599
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
171
AREA
2124
HEIGHT
1543
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

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Inj Date : 18-APR-2024 12:49
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:49 Cal File: 04.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

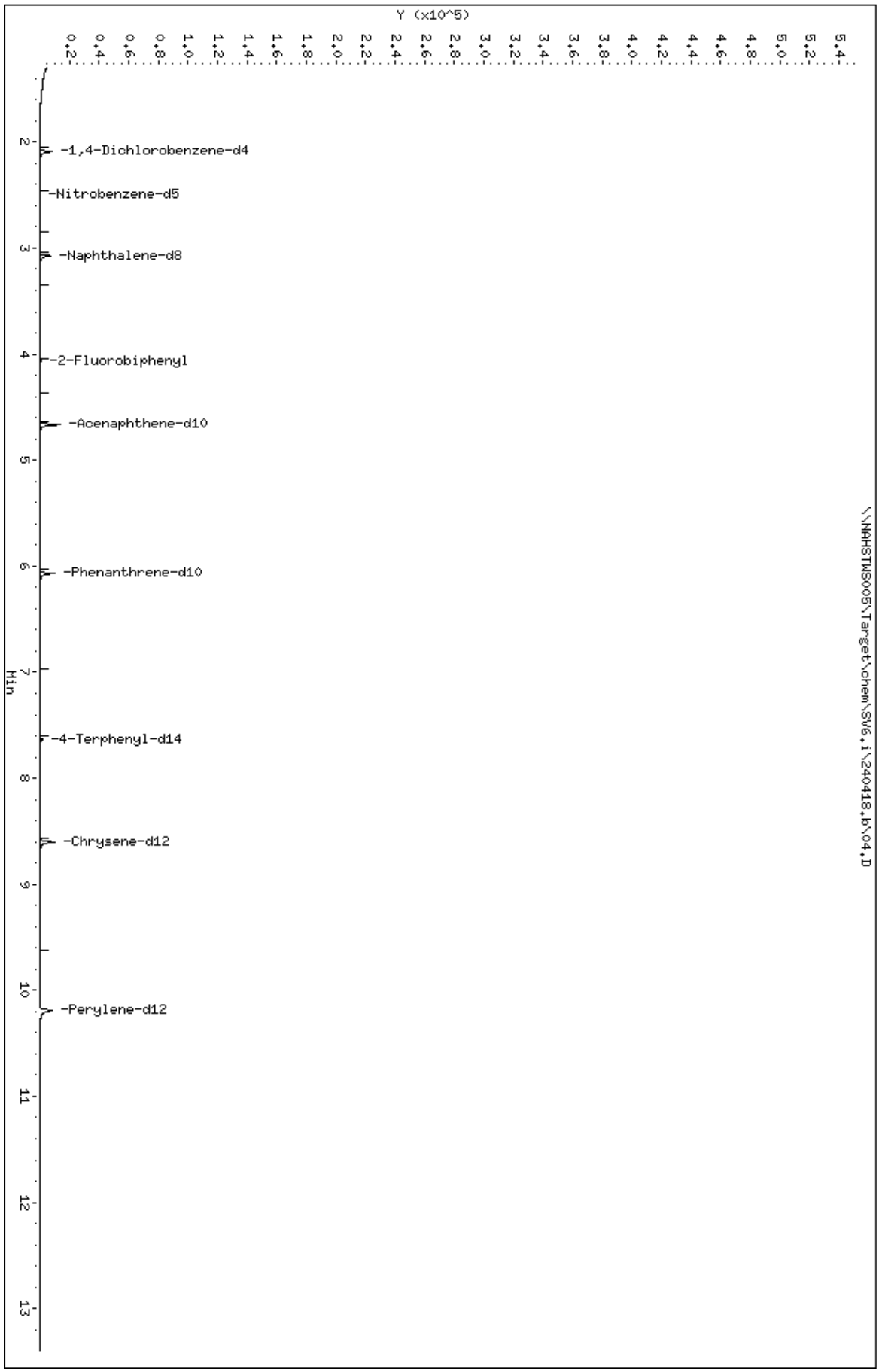
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3248	0.10000	(aM)
* 45 Naphthalene-d8	136	3.073	3.076	(1.000)	10308	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.813)	262	0.01000	0.008466(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6420	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	1018	0.01000	0.01037(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	12867	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	11333	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	2521	0.01000	0.01092(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	12071	0.10000	(M)
1 1,4-Dioxane	58	0.838	0.820	(0.401)	87	0.01000	0.01250(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

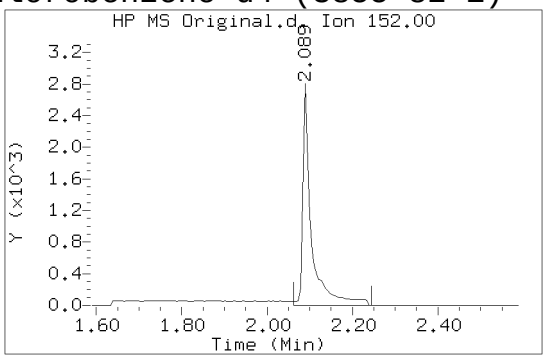

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Date : 18-APR-2024 12:49
Client ID:
Sample Info: 14DX-0.01
Purge Volume: 1000.0
Column phase: RTX-5SIL MS
Instrument: SV6.i
Operator: LG
Column diameter: 0.28
Page 1
Y (x10^5)
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-4-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
Min
2
3
4
5
6
7
8
9
10
11
12
13
\\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D

Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

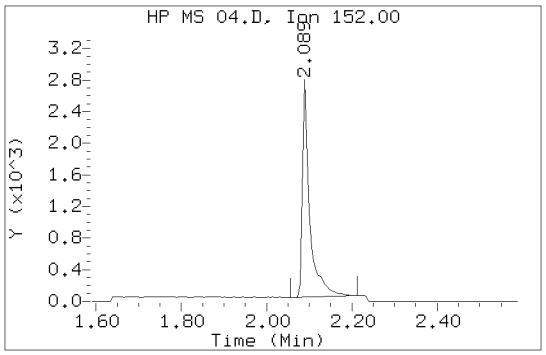
1,4-Dichlorobenzene-d4 (3855-82-1)

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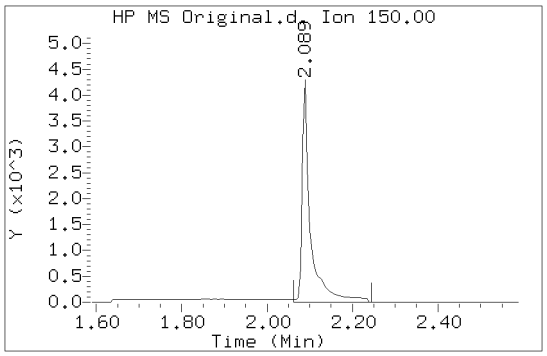
BEFORE
MASS
152
AREA
3912
HEIGHT
2804
18-Apr-2024
13:10
ALSHS
Server



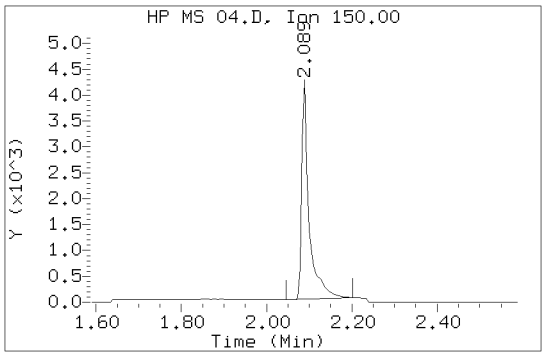
AFTER
MASS
152
AREA
3248
HEIGHT
2748
28-May-2024
13:05



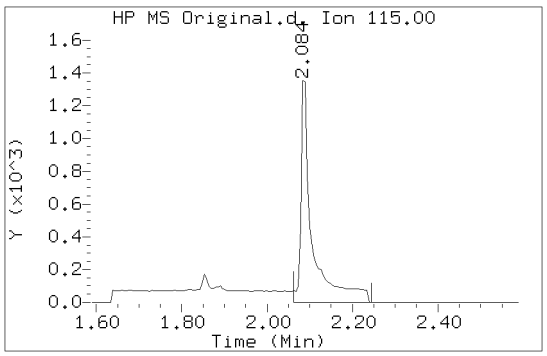
BEFORE
MASS
150
AREA
5830
HEIGHT
4294
18-Apr-2024
13:10
ALSHS
Server



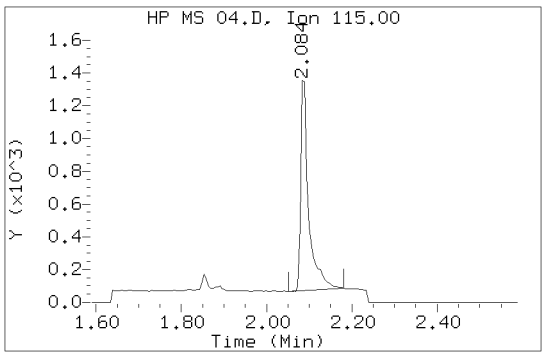
AFTER
MASS
150
AREA
5043
HEIGHT
4231
28-May-2024
13:05



BEFORE
MASS
115
AREA
2502
HEIGHT
1353
18-Apr-2024
13:10
ALSHS
Server



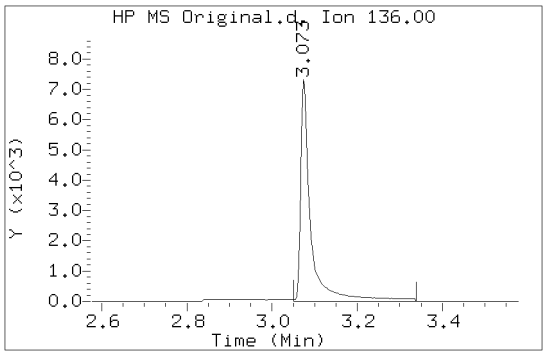
AFTER
MASS
115
AREA
1663
HEIGHT
1280
28-May-2024
13:05



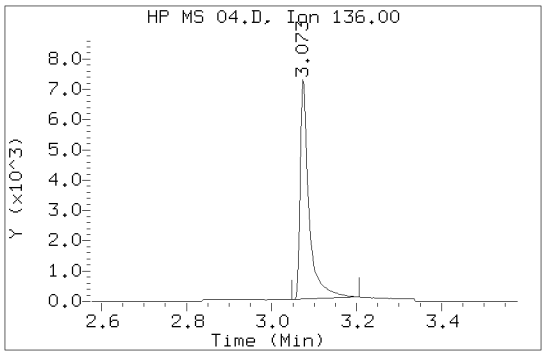
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
12033
HEIGHT
7318
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
136
AREA
10308
HEIGHT
7248
28-May-2024
13:05



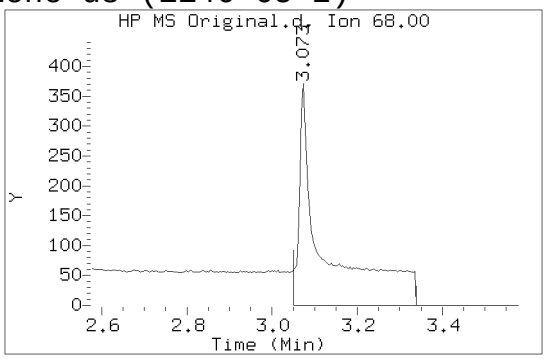
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Naphthalene-d8 (1146-65-2)

Reason Code:

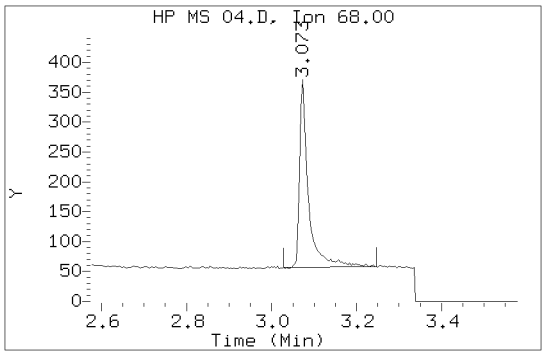
BEFORE

MASS
68
AREA
1444
HEIGHT
371
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
68
AREA
448
HEIGHT
313
28-May-2024
13:05

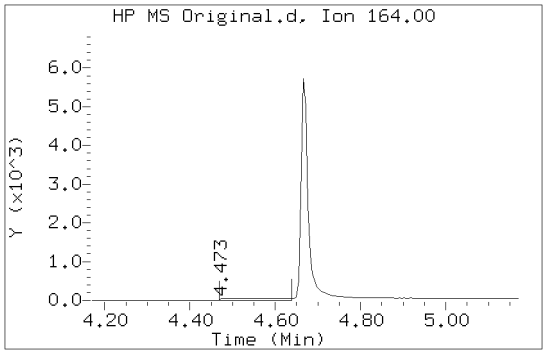


Acenaphthene-d10 (15067-26-2)

Reason Code:

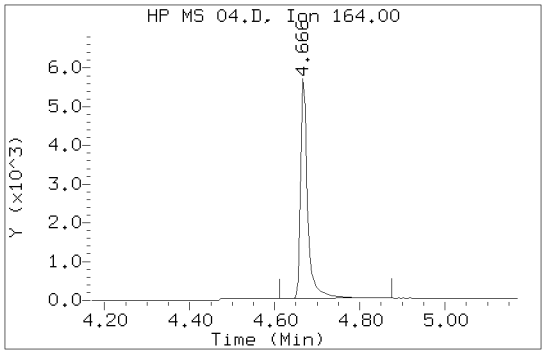
BEFORE

MASS
164
AREA
515
HEIGHT
52
18-Apr-2024
13:10
ALSHS
Server



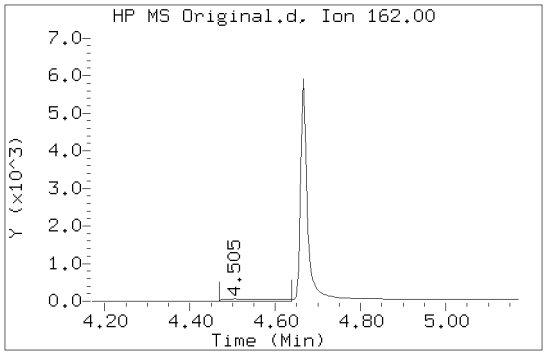
AFTER

MASS
164
AREA
6420
HEIGHT
5670
28-May-2024
13:05



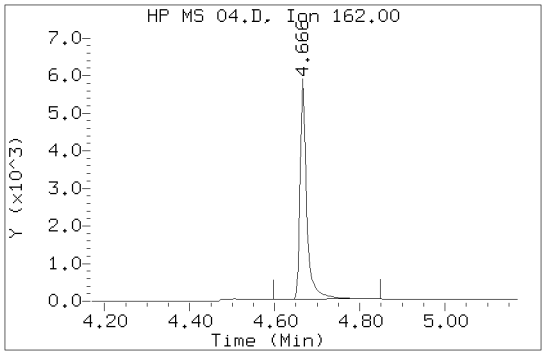
BEFORE

MASS
162
AREA
528
HEIGHT
60
18-Apr-2024
13:10
ALSHS
Server



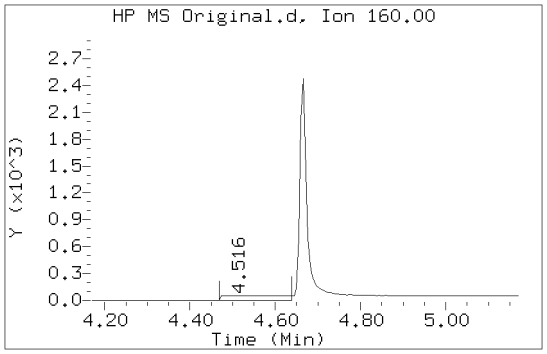
AFTER

MASS
162
AREA
6187
HEIGHT
5861
28-May-2024
13:05



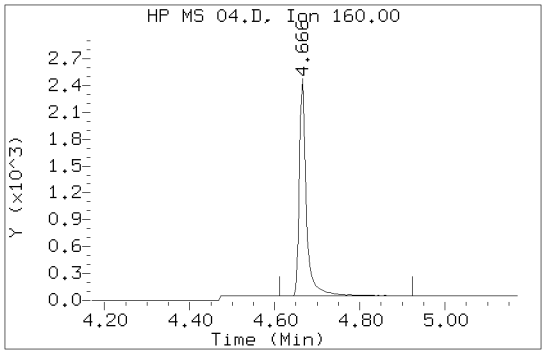
BEFORE

MASS
160
AREA
499
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
160
AREA
2756
HEIGHT
2428
28-May-2024
13:05



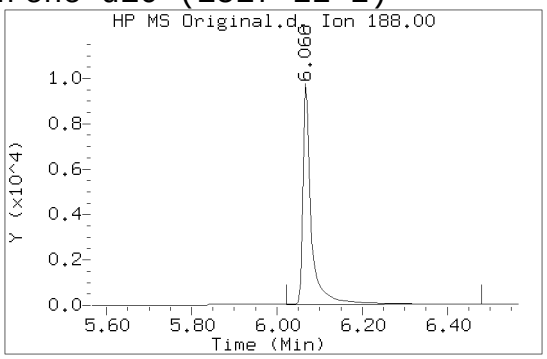
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Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Phenanthrene-d10 (1517-22-2)

Reason Code:

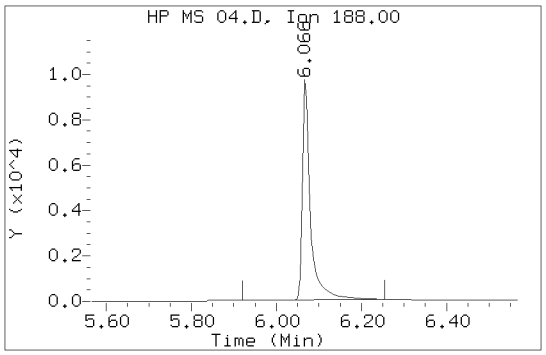
BEFORE

MASS
188
AREA
13965
HEIGHT
9748
18-Apr-2024
13:10
ALSHS
Server



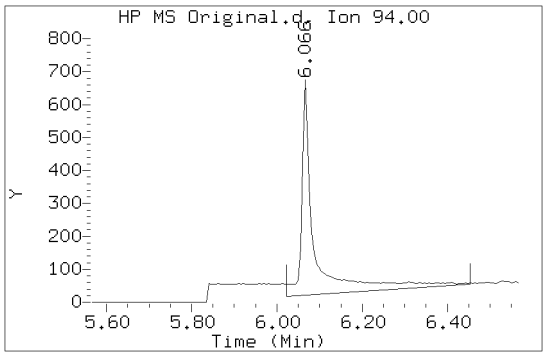
AFTER

MASS
188
AREA
12867
HEIGHT
9702
28-May-2024
13:05



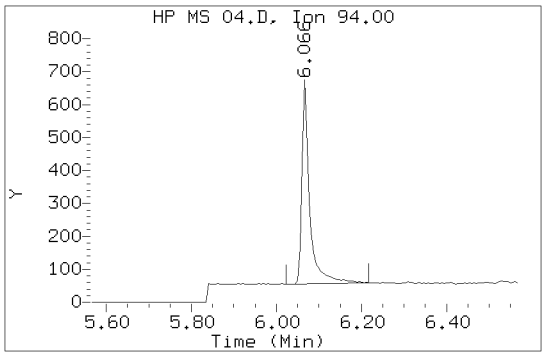
BEFORE

MASS
94
AREA
1364
HEIGHT
654
18-Apr-2024
13:10
ALSHS
Server



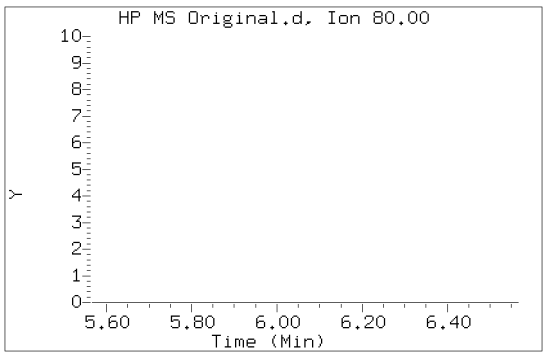
AFTER

MASS
94
AREA
793
HEIGHT
619
28-May-2024
13:05



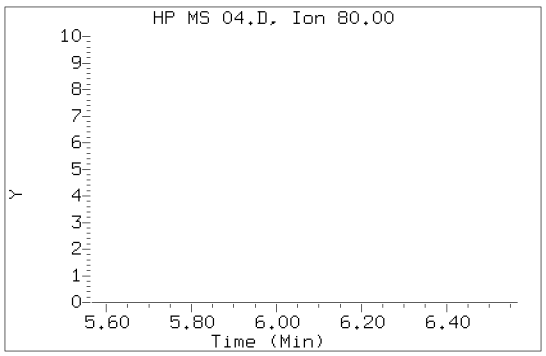
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

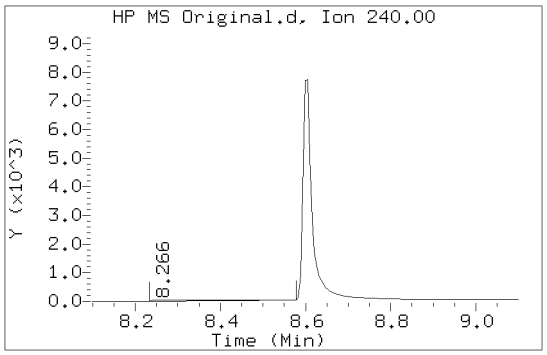


Chrysene-d12 (1719-03-5)

Reason Code:

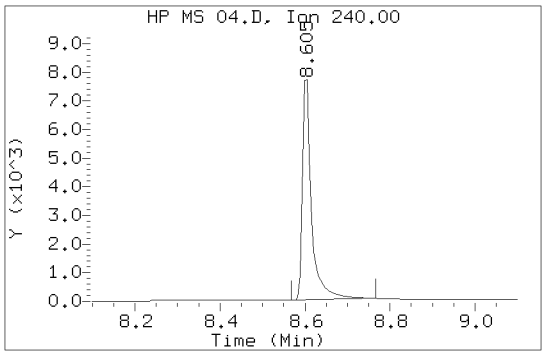
BEFORE

MASS
240
AREA
456
HEIGHT
48
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
240
AREA
11333
HEIGHT
7679
28-May-2024
13:05

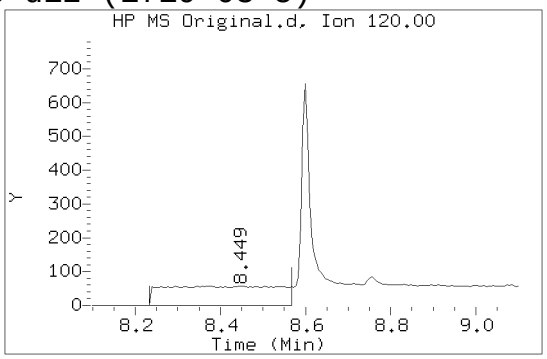


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Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Chrysene-d12 (1719-03-5)

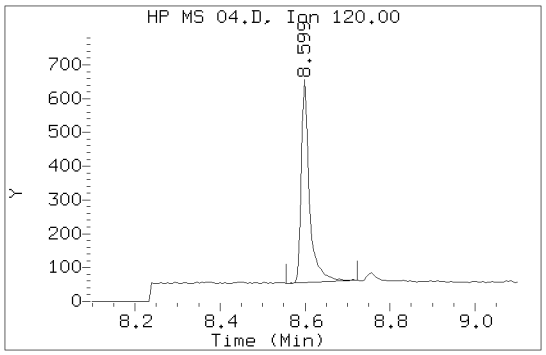
BEFORE

MASS
120
AREA
1092
HEIGHT
57
18-Apr-2024
13:10
ALSHS
Server



AFTER

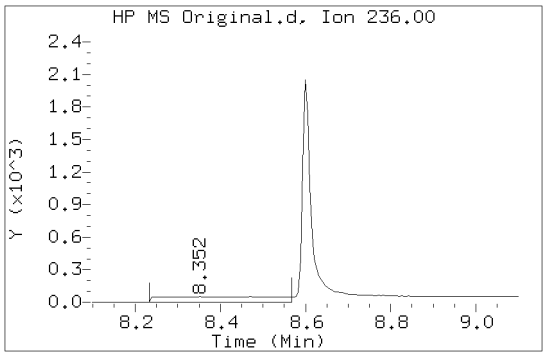
MASS
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AREA
786
HEIGHT
599
28-May-2024
13:05



Reason Code:

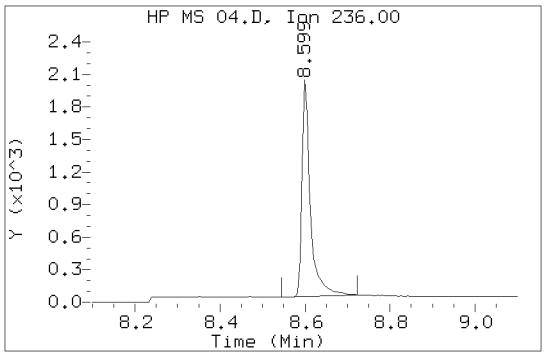
BEFORE

MASS
236
AREA
988
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
236
AREA
2680
HEIGHT
1995
28-May-2024
13:05

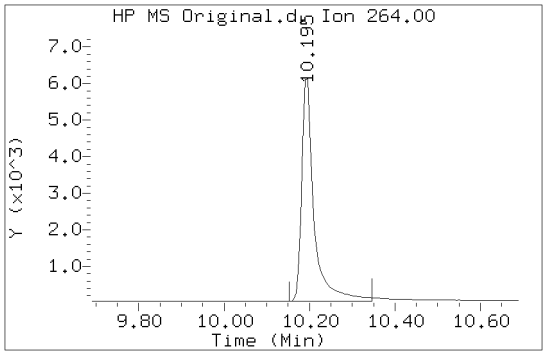


Reason Code:

Perylene-d12 (1520-96-3)

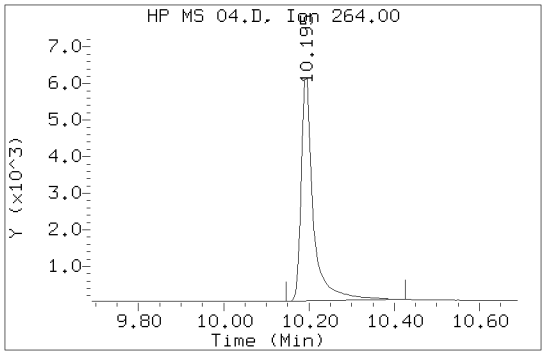
BEFORE

MASS
264
AREA
12161
HEIGHT
6073
18-Apr-2024
13:10
ALSHS
Server



AFTER

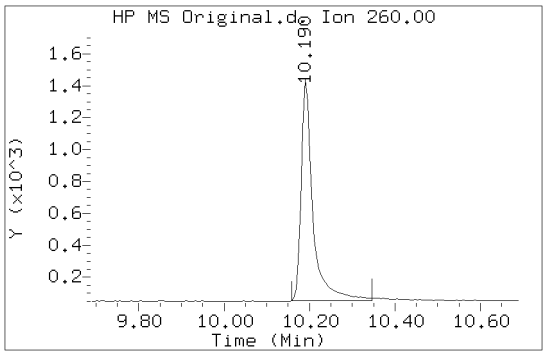
MASS
264
AREA
12071
HEIGHT
6065
28-May-2024
13:05



Reason Code:

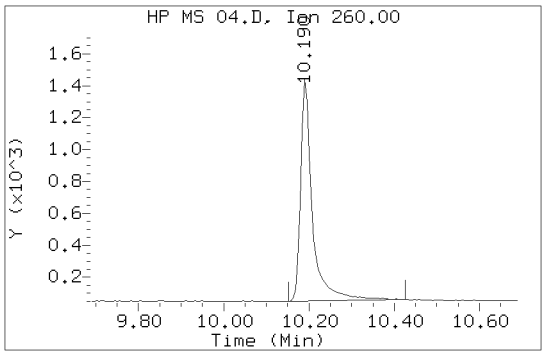
BEFORE

MASS
260
AREA
2633
HEIGHT
1385
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
260
AREA
2644
HEIGHT
1385
28-May-2024
13:05



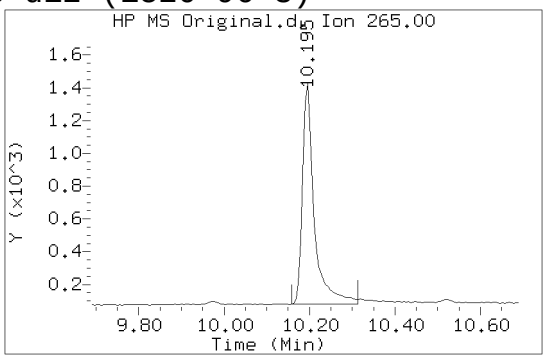
Reason Code:

Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

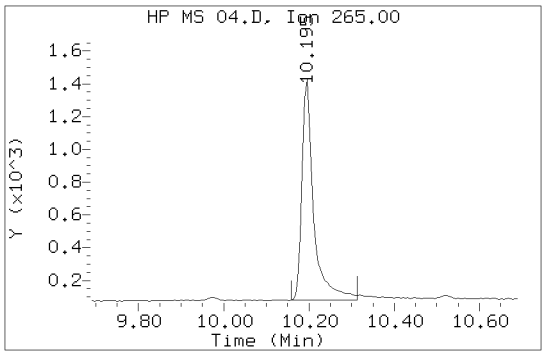
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
2550
HEIGHT
1343
18-Apr-2024
13:10
ALSHS
Server



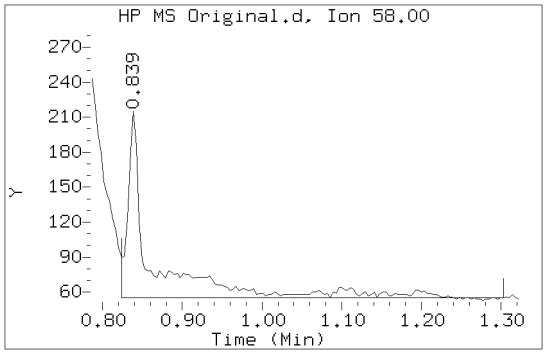
AFTER
MASS
265
AREA
2550
HEIGHT
1343
28-May-2024
13:05



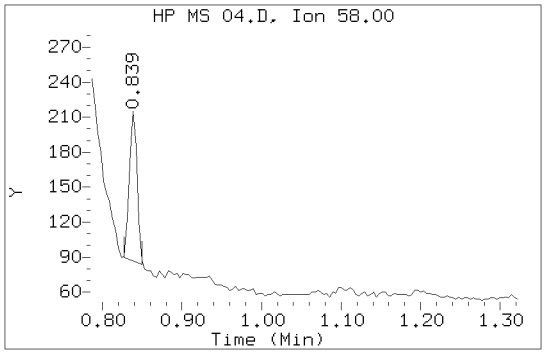
1,4-Dioxane ()

Reason Code:

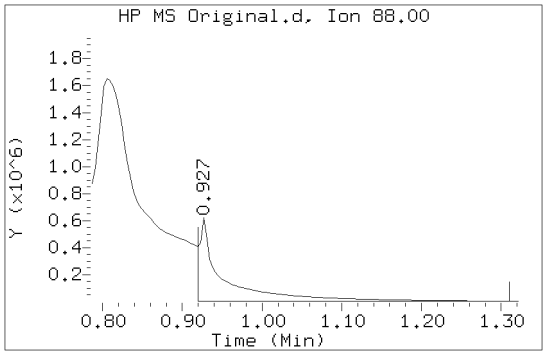
BEFORE
MASS
58
AREA
329
HEIGHT
160
18-Apr-2024
13:10
ALSHS
Server



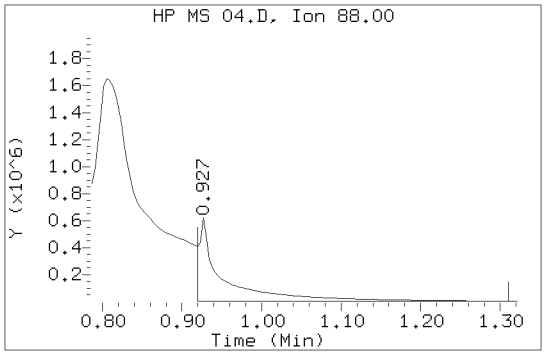
AFTER
MASS
58
AREA
87
HEIGHT
128
28-May-2024
13:05



BEFORE
MASS
88
AREA
1289287
HEIGHT
619255
18-Apr-2024
13:10
ALSHS
Server



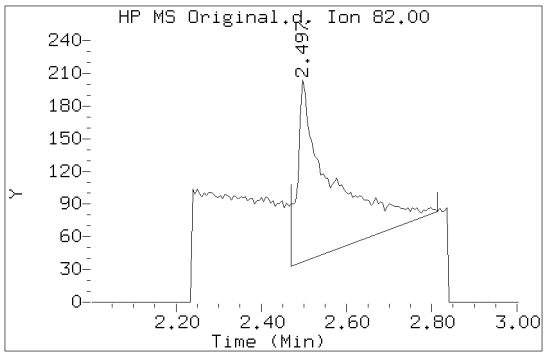
AFTER
MASS
88
AREA
1289287
HEIGHT
619255
28-May-2024
13:05



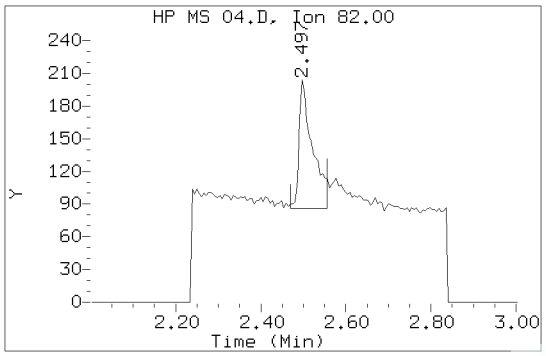
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
946
HEIGHT
167
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
82
AREA
262
HEIGHT
118
28-May-2024
13:05

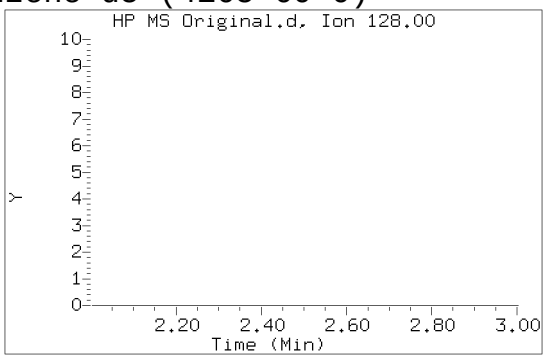


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

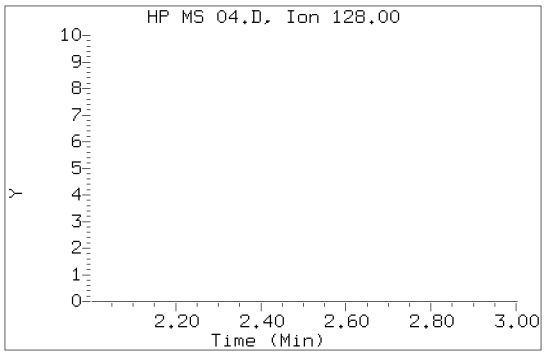
Nitrobenzene-d5 (4165-60-0)

Reason Code:

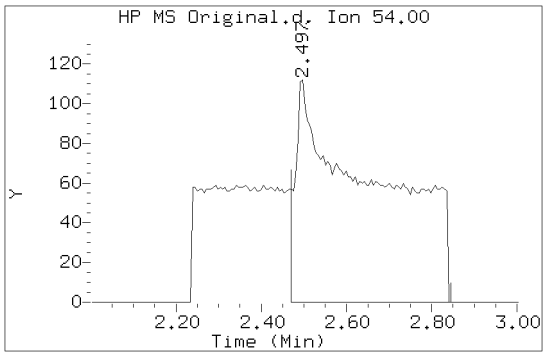
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



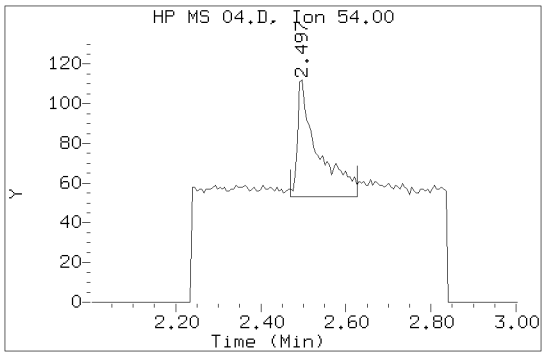
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1431
HEIGHT
112
18-Apr-2024
13:10
ALSHS
Server



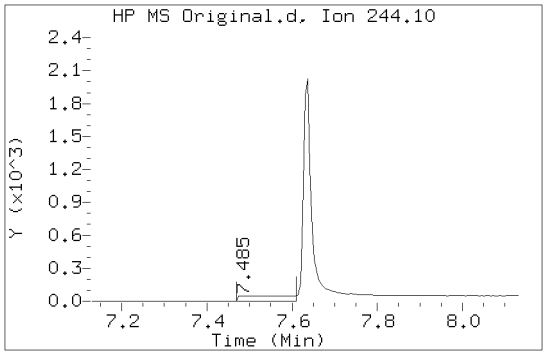
AFTER
MASS
54
AREA
197
HEIGHT
59
28-May-2024
13:05



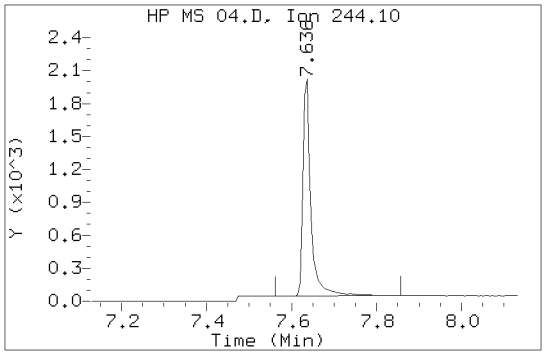
4-Terphenyl-d14 (1718-51-0)

Reason Code:

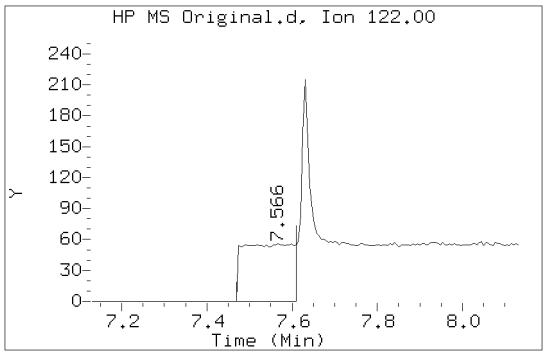
BEFORE
MASS
244.1
AREA
404
HEIGHT
49
18-Apr-2024
13:10
ALSHS
Server



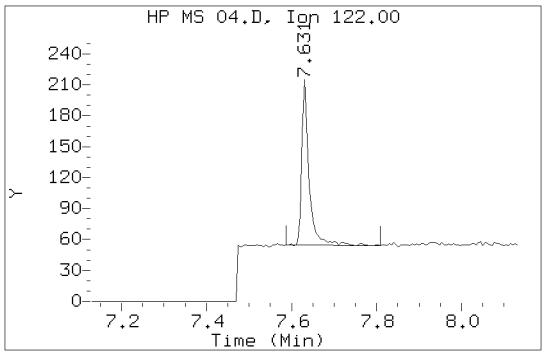
AFTER
MASS
244.1
AREA
2521
HEIGHT
1975
28-May-2024
13:05



BEFORE
MASS
122
AREA
456
HEIGHT
56
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
122
AREA
187
HEIGHT
160
28-May-2024
13:05



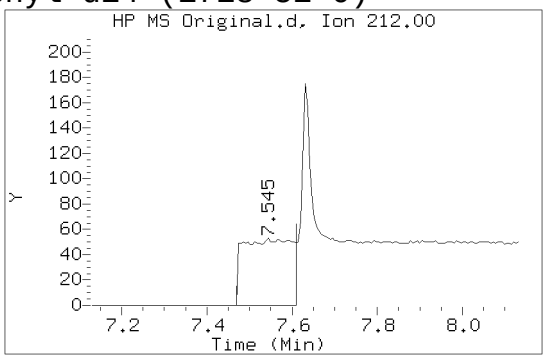
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

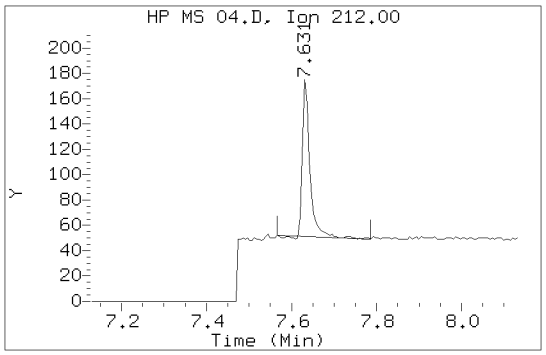
BEFORE

MASS
212
AREA
418
HEIGHT
53
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
212
AREA
146
HEIGHT
123
28-May-2024
13:05

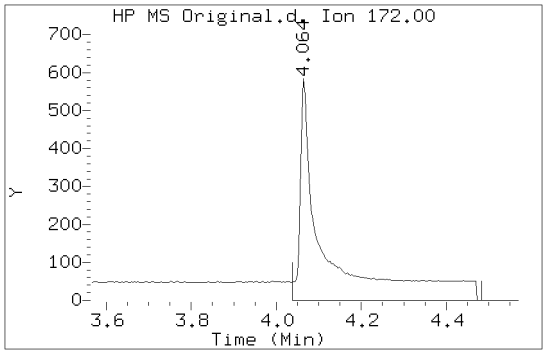


2-Fluorobiphenyl (321-60-8)

Reason Code:

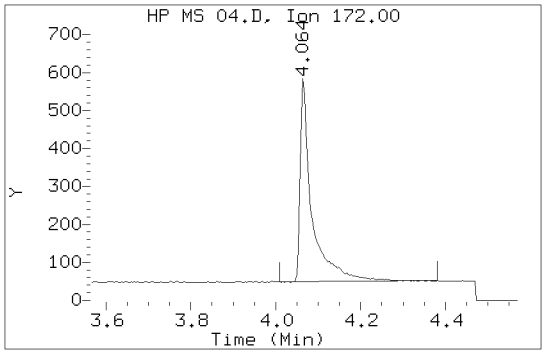
BEFORE

MASS
172
AREA
2355
HEIGHT
584
18-Apr-2024
13:10
ALSHS
Server



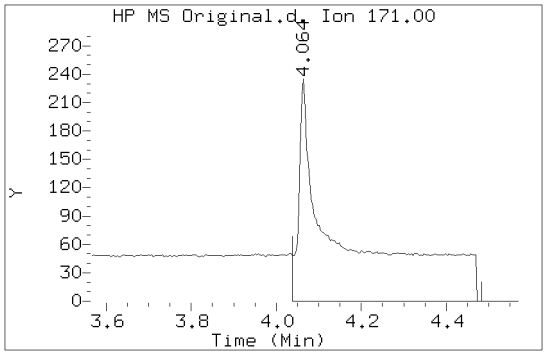
AFTER

MASS
172
AREA
1018
HEIGHT
534
28-May-2024
13:05



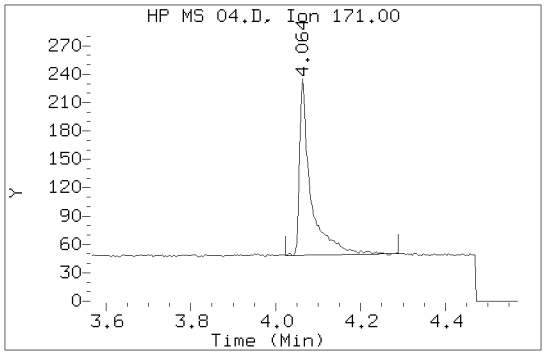
BEFORE

MASS
171
AREA
1637
HEIGHT
235
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
171
AREA
346
HEIGHT
186
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Lab Smp Id: 14DX-0.03
Inj Date : 18-APR-2024 13:07
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:07 Cal File: 05.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.088	2.089	(1.000)	2278	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	6857	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	570	0.03000	0.02769(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	3891	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	1731	0.03000	0.02910(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	7578	0.10000	(M)
* 182 Chrysene-d12	240	8.598	8.599	(1.000)	6445	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	3857	0.03000	0.02938(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	6635	0.10000	
1 1,4-Dioxane	58	0.827	0.820	(0.396)	138	0.03000	0.02828(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D

Date : 18-APR-2024 13:07

Client ID:

Instrument: SV6.i

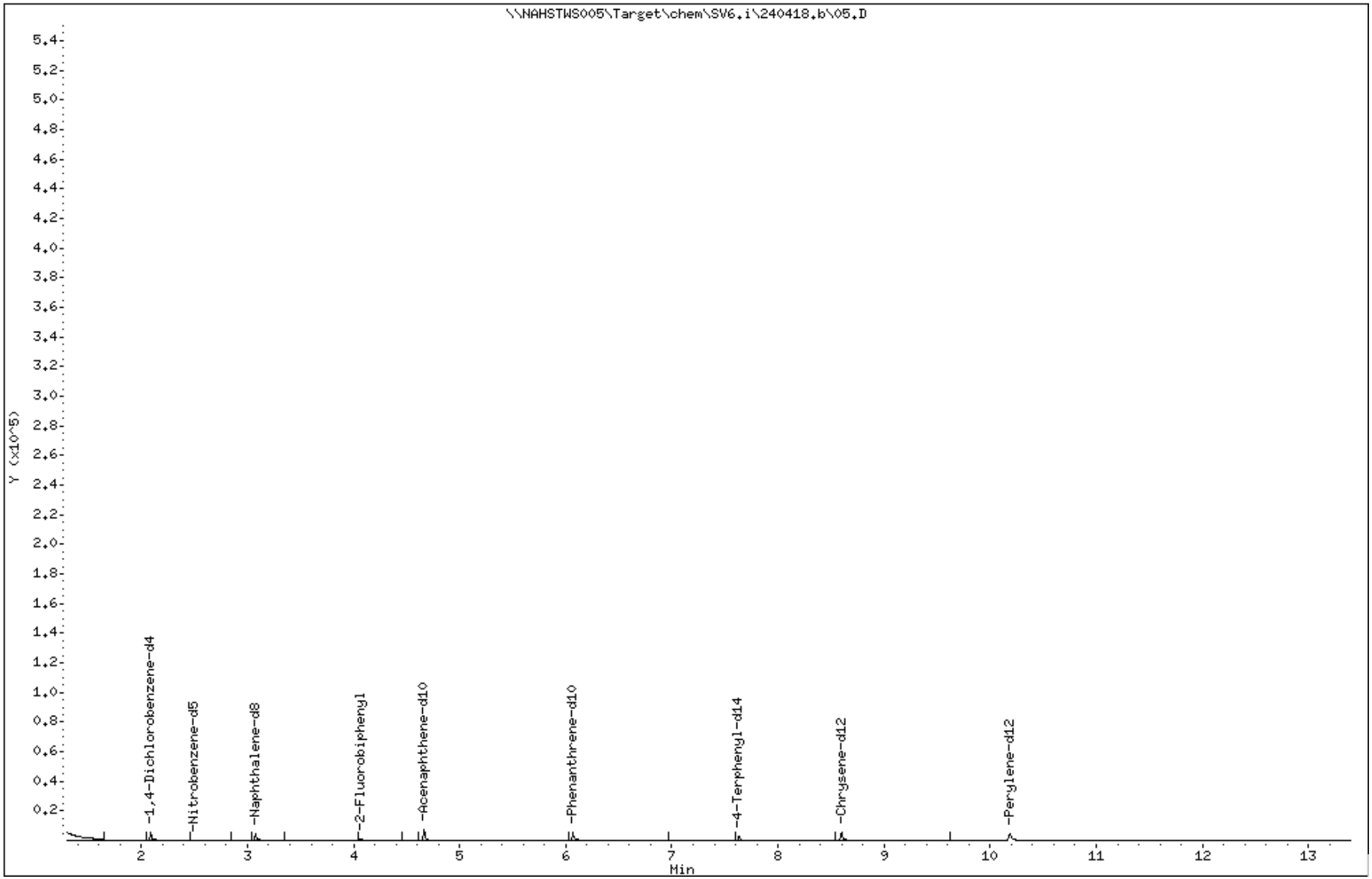
Sample Info: 14DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

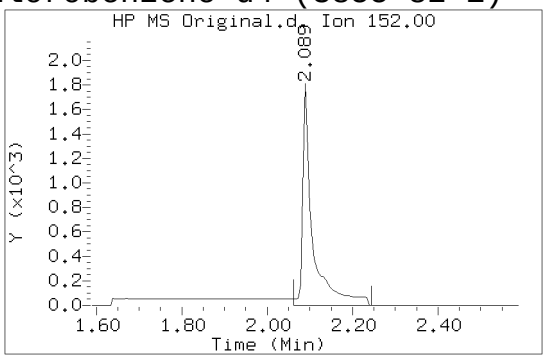


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

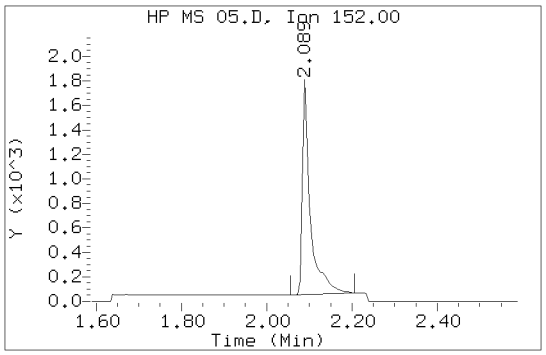
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

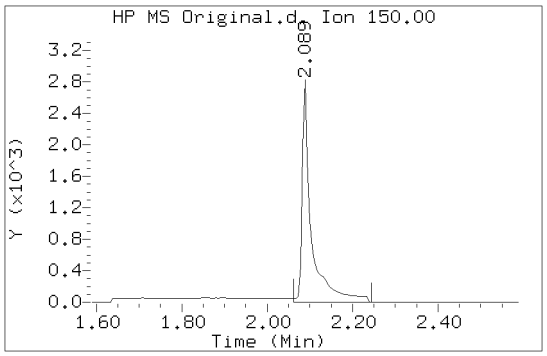
BEFORE
MASS
152
AREA
2919
HEIGHT
1810
18-Apr-2024
13:21
ALSHS
Server



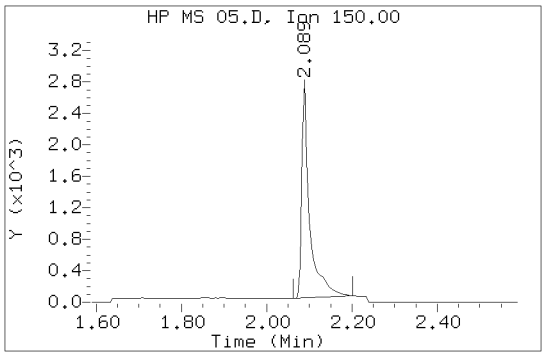
AFTER
MASS
152
AREA
2278
HEIGHT
1755
28-May-2024
13:05



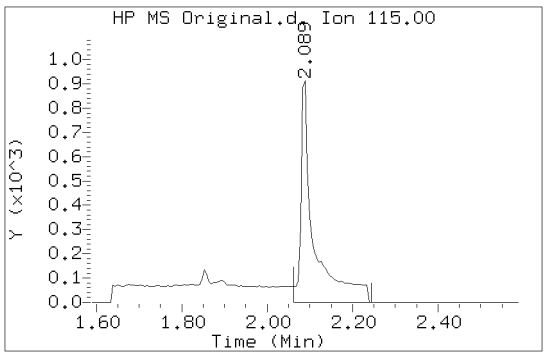
BEFORE
MASS
150
AREA
4252
HEIGHT
2826
18-Apr-2024
13:21
ALSHS
Server



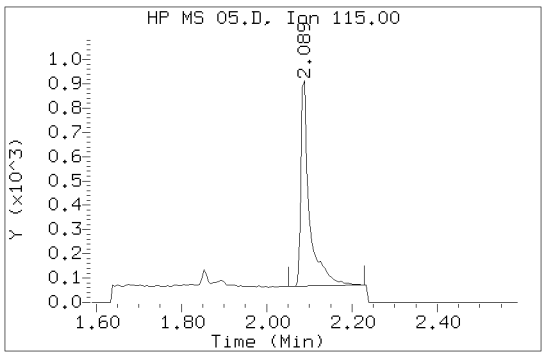
AFTER
MASS
150
AREA
3521
HEIGHT
2768
28-May-2024
13:05



BEFORE
MASS
115
AREA
1932
HEIGHT
913
18-Apr-2024
13:21
ALSHS
Server



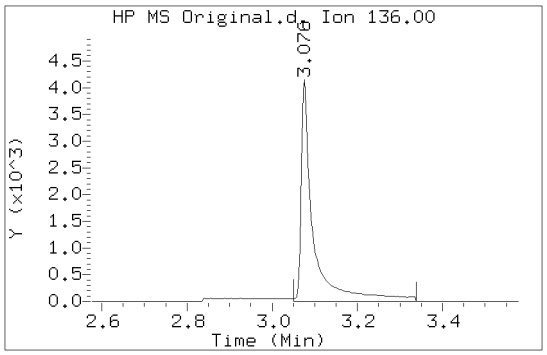
AFTER
MASS
115
AREA
1207
HEIGHT
846
28-May-2024
13:05



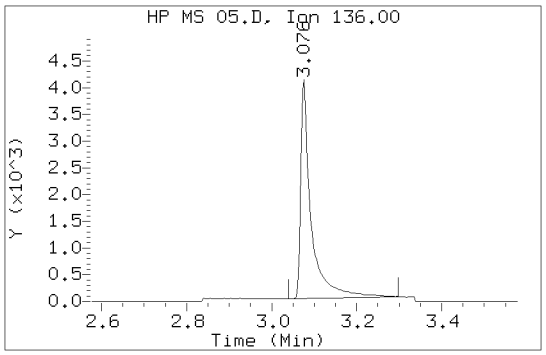
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8079
HEIGHT
4148
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
136
AREA
6857
HEIGHT
4091
28-May-2024
13:05

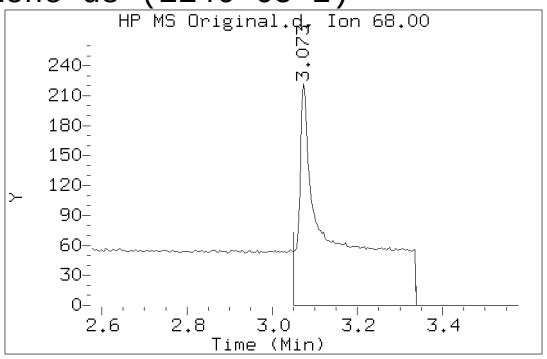


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

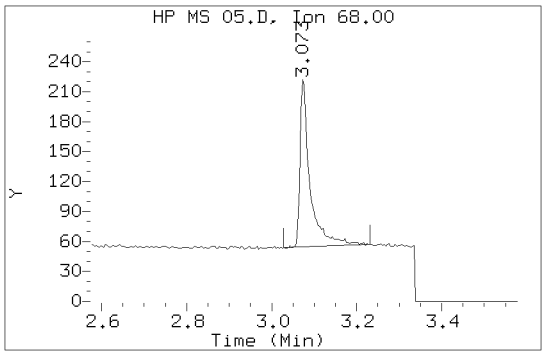
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1234
HEIGHT
222
18-Apr-2024
13:21
ALSHS
Server



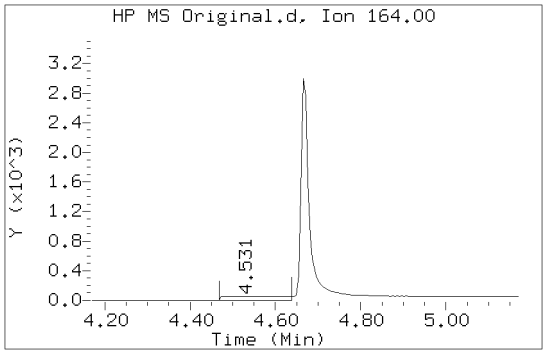
AFTER
MASS
68
AREA
270
HEIGHT
167
28-May-2024
13:05



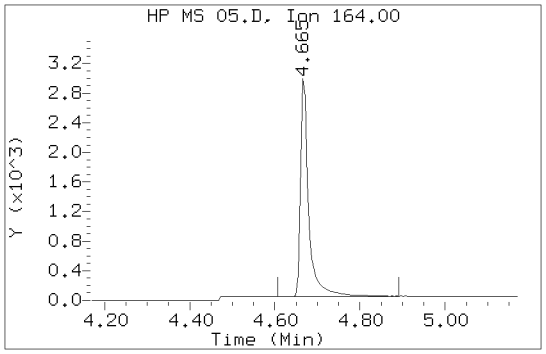
Acenaphthene-d10 (15067-26-2)

Reason Code:

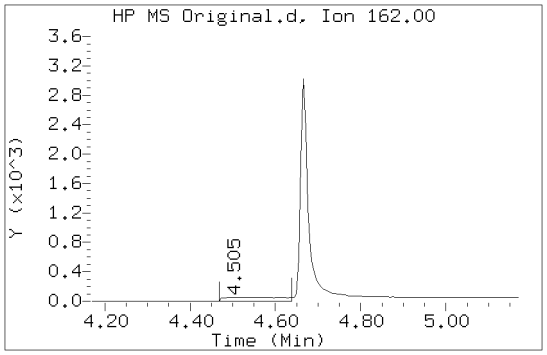
BEFORE
MASS
164
AREA
504
HEIGHT
51
18-Apr-2024
13:21
ALSHS
Server



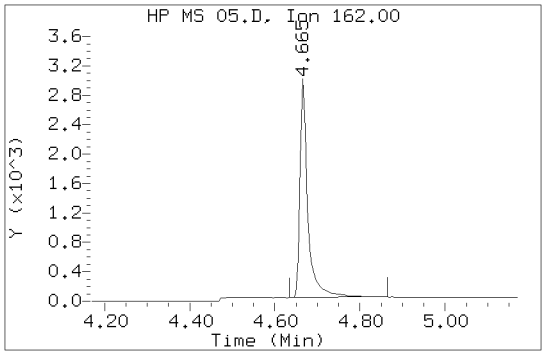
AFTER
MASS
164
AREA
3891
HEIGHT
2944
28-May-2024
13:05



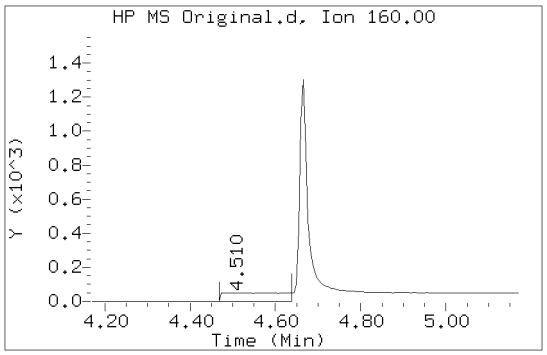
BEFORE
MASS
162
AREA
505
HEIGHT
54
18-Apr-2024
13:21
ALSHS
Server



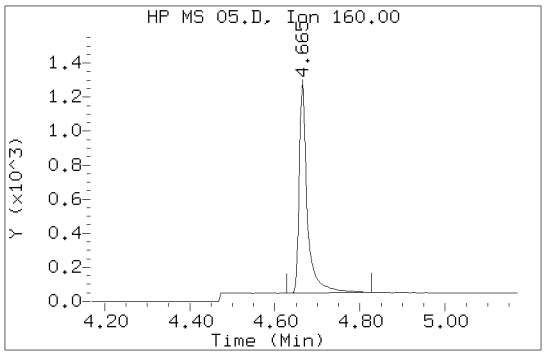
AFTER
MASS
162
AREA
3749
HEIGHT
2972
28-May-2024
13:05



BEFORE
MASS
160
AREA
490
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
160
AREA
1625
HEIGHT
1253
28-May-2024
13:05



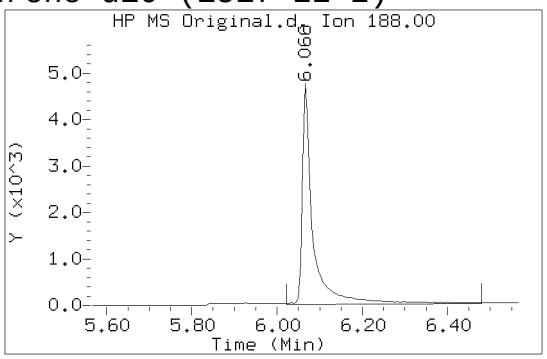
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Phenanthrene-d10 (1517-22-2)

Reason Code:

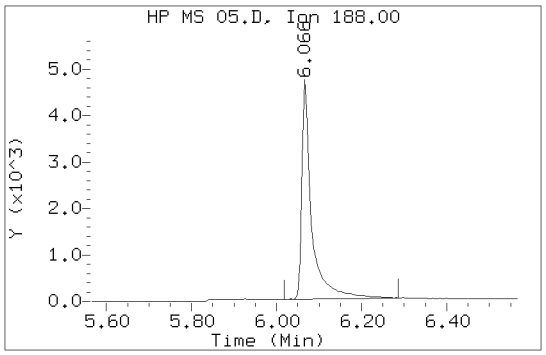
BEFORE

MASS
188
AREA
8422
HEIGHT
4756
18-Apr-2024
13:21
ALSHS
Server



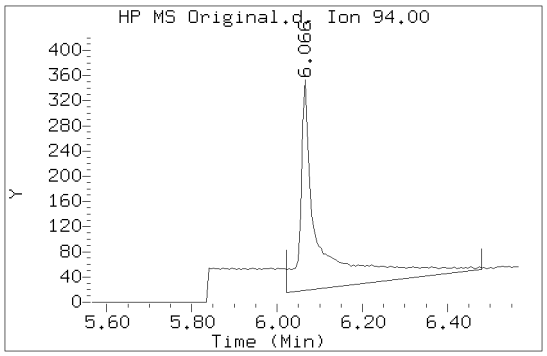
AFTER

MASS
188
AREA
7578
HEIGHT
4722
28-May-2024
13:05



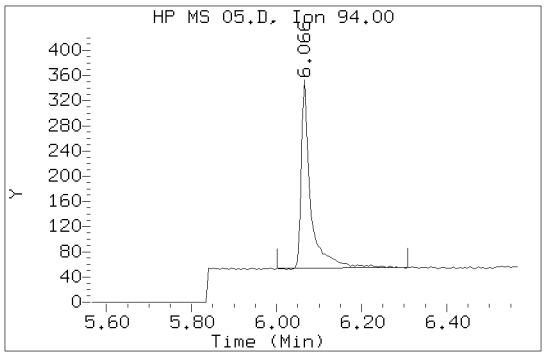
BEFORE

MASS
94
AREA
1045
HEIGHT
334
18-Apr-2024
13:21
ALSHS
Server



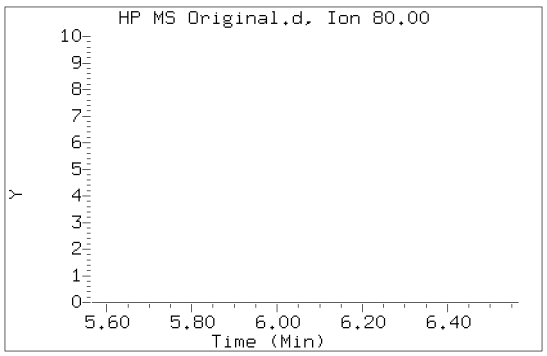
AFTER

MASS
94
AREA
460
HEIGHT
298
28-May-2024
13:05



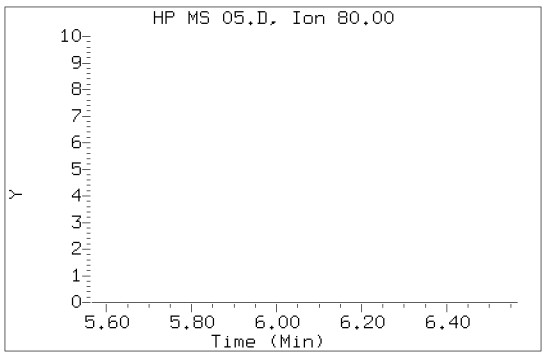
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

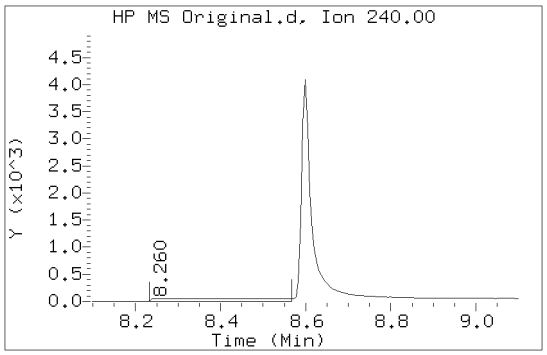


Chrysene-d12 (1719-03-5)

Reason Code:

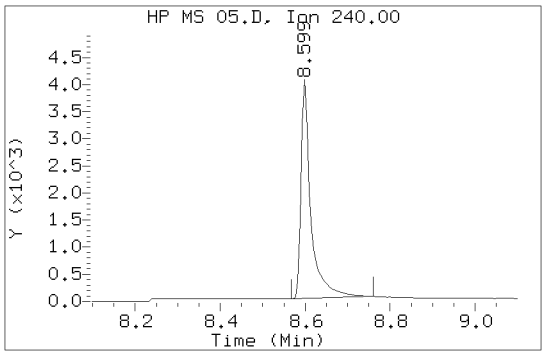
BEFORE

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
240
AREA
6445
HEIGHT
4036
28-May-2024
13:05



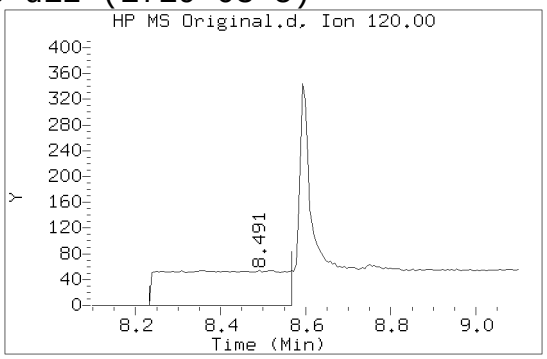
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Chrysene-d12 (1719-03-5)

Reason Code:

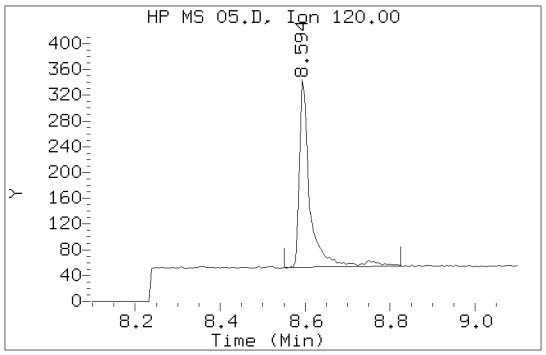
BEFORE

MASS
120
AREA
1053
HEIGHT
55
18-Apr-2024
13:21
ALSHS
Server



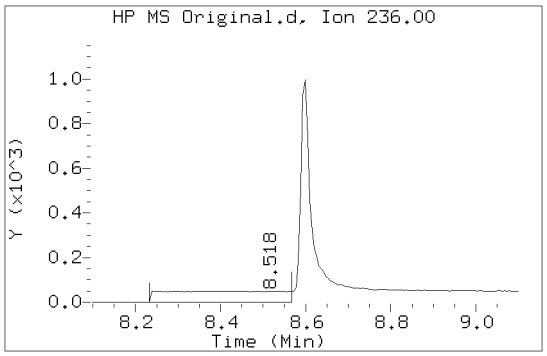
AFTER

MASS
120
AREA
500
HEIGHT
290
28-May-2024
13:05



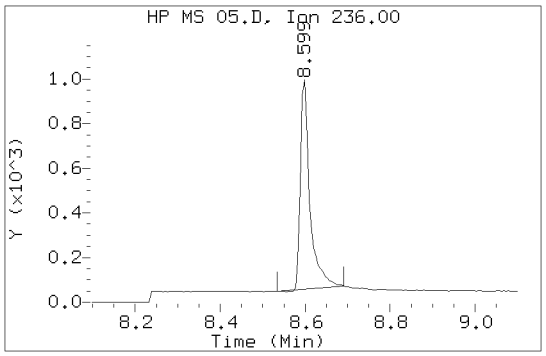
BEFORE

MASS
236
AREA
963
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
236
AREA
1446
HEIGHT
938
28-May-2024
13:05

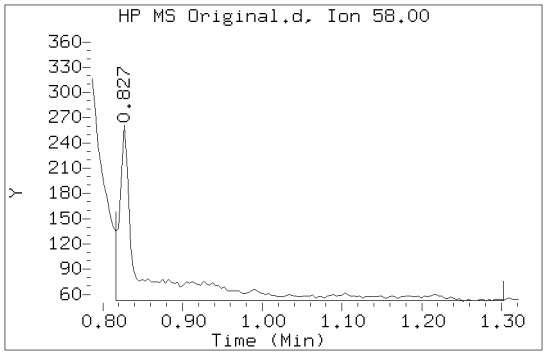


1,4-Dioxane ()

Reason Code:

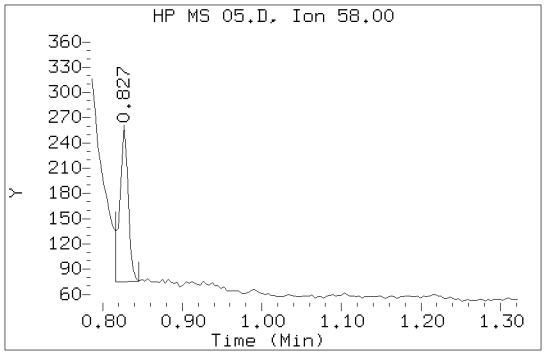
BEFORE

MASS
58
AREA
414
HEIGHT
208
18-Apr-2024
13:21
ALSHS
Server



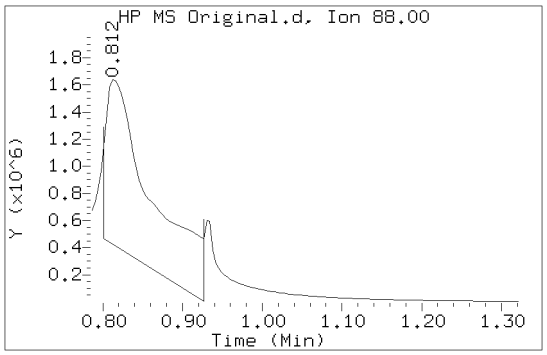
AFTER

MASS
58
AREA
138
HEIGHT
185
28-May-2024
13:05



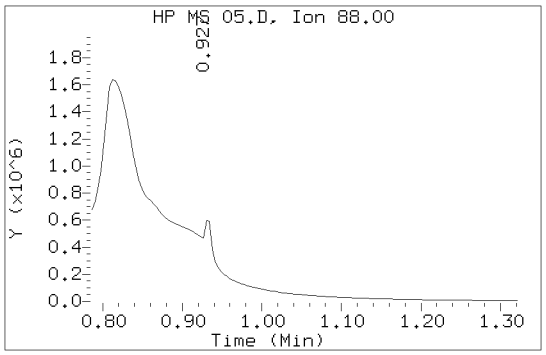
BEFORE

MASS
88
AREA
4998904
HEIGHT
1209480
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

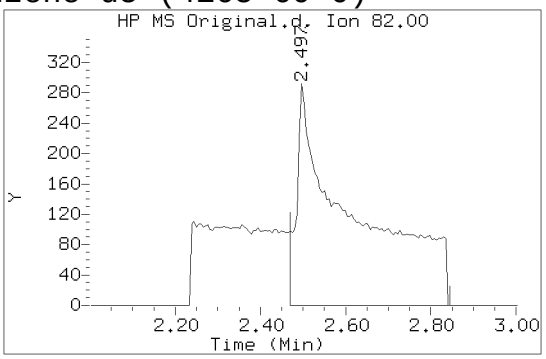


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

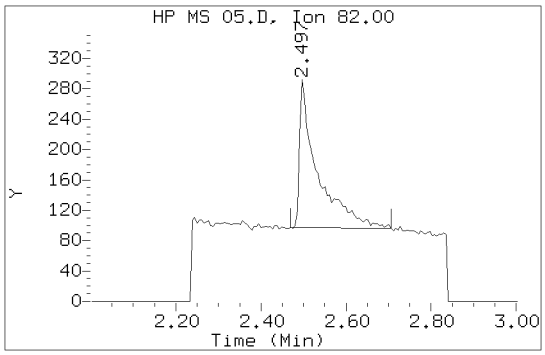
Nitrobenzene-d5 (4165-60-0)

Reason Code:

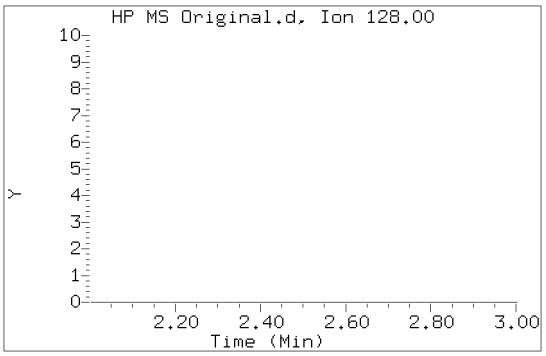
BEFORE
MASS
82
AREA
2662
HEIGHT
292
18-Apr-2024
13:21
ALSHS
Server



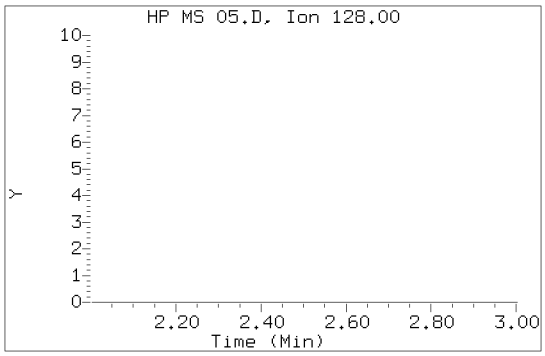
AFTER
MASS
82
AREA
570
HEIGHT
195
28-May-2024
13:05



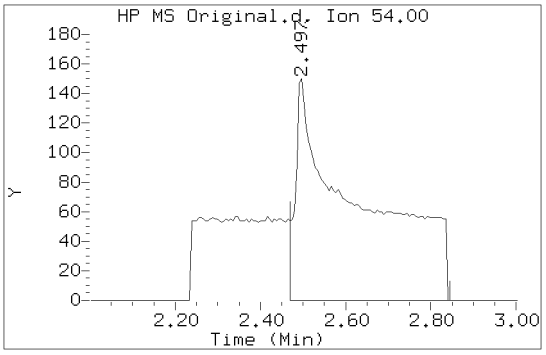
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



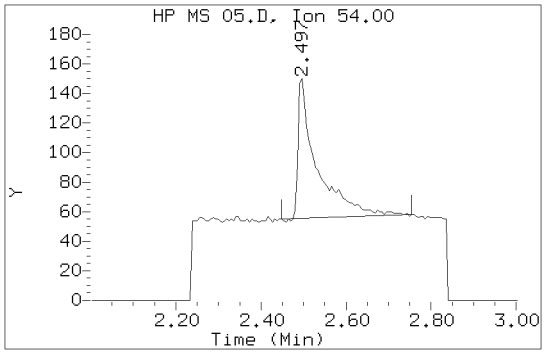
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1538
HEIGHT
150
18-Apr-2024
13:21
ALSHS
Server



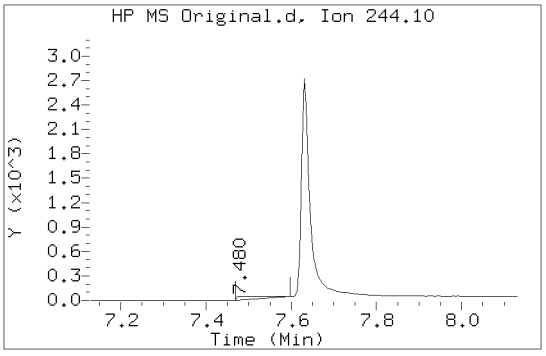
AFTER
MASS
54
AREA
289
HEIGHT
94
28-May-2024
13:05



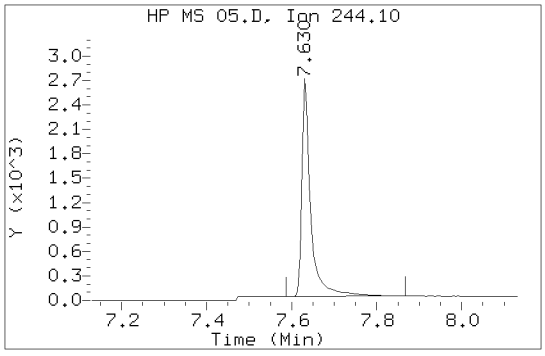
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
174
HEIGHT
44
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
244.1
AREA
3857
HEIGHT
2674
28-May-2024
13:05

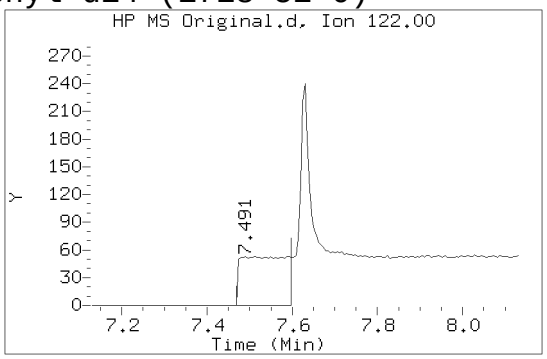


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

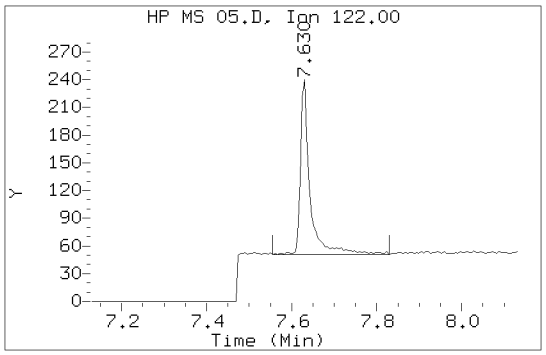
4-Terphenyl-d14 (1718-51-0)

Reason Code:

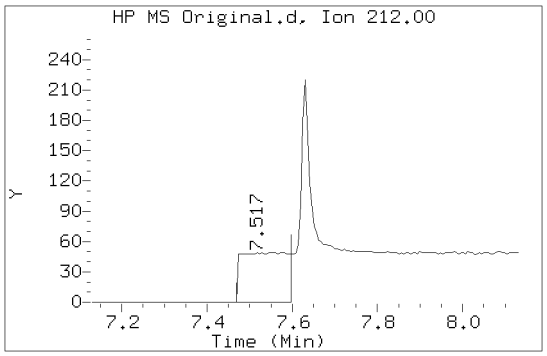
BEFORE
MASS
122
AREA
401
HEIGHT
53
18-Apr-2024
13:21
ALSHS
Server



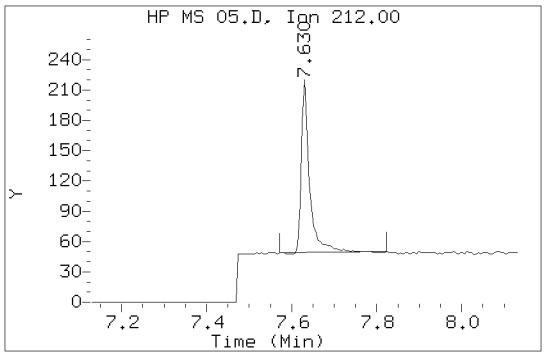
AFTER
MASS
122
AREA
296
HEIGHT
189
28-May-2024
13:05



BEFORE
MASS
212
AREA
374
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



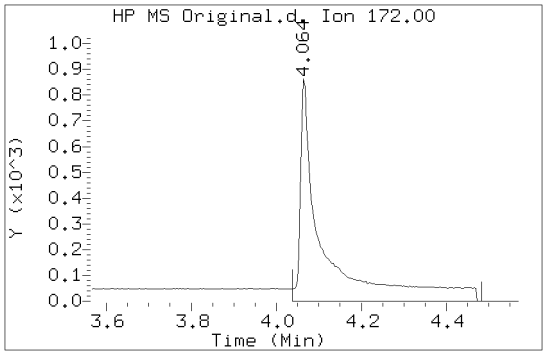
AFTER
MASS
212
AREA
227
HEIGHT
170
28-May-2024
13:05



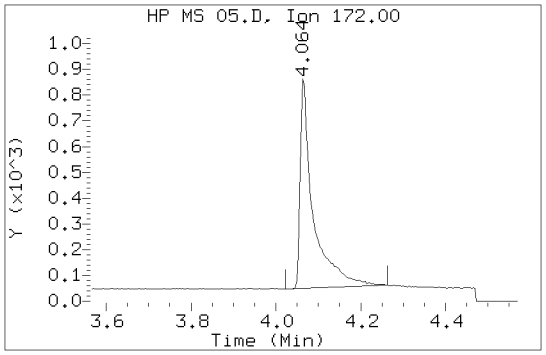
2-Fluorobiphenyl (321-60-8)

Reason Code:

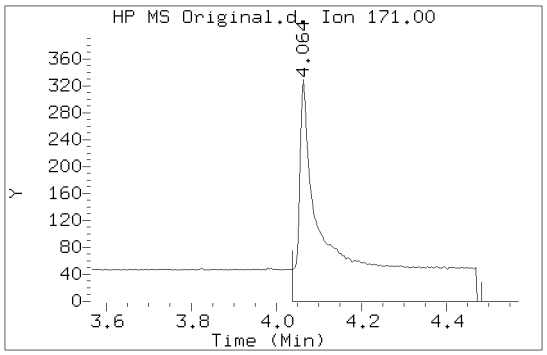
BEFORE
MASS
172
AREA
3193
HEIGHT
863
18-Apr-2024
13:21
ALSHS
Server



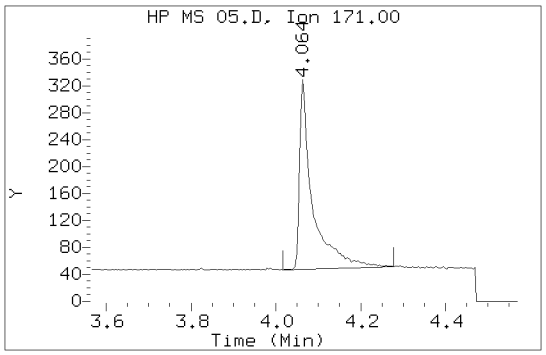
AFTER
MASS
172
AREA
1731
HEIGHT
812
28-May-2024
13:05



BEFORE
MASS
171
AREA
1906
HEIGHT
329
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
171
AREA
602
HEIGHT
281
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Lab Smp Id: 14DX-0.05
Inj Date : 18-APR-2024 13:25
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:25 Cal File: 06.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3152	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9502	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	1589	0.05000	0.05570(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6015	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	4588	0.05000	0.04990(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	11597	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	10029	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	10047	0.05000	0.04918(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	10408	0.10000	(M)
1 1,4-Dioxane	58	0.849	0.820	(0.406)	339	0.05000	0.05021(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D

Date : 18-APR-2024 13:25

Client ID:

Instrument: SV6.i

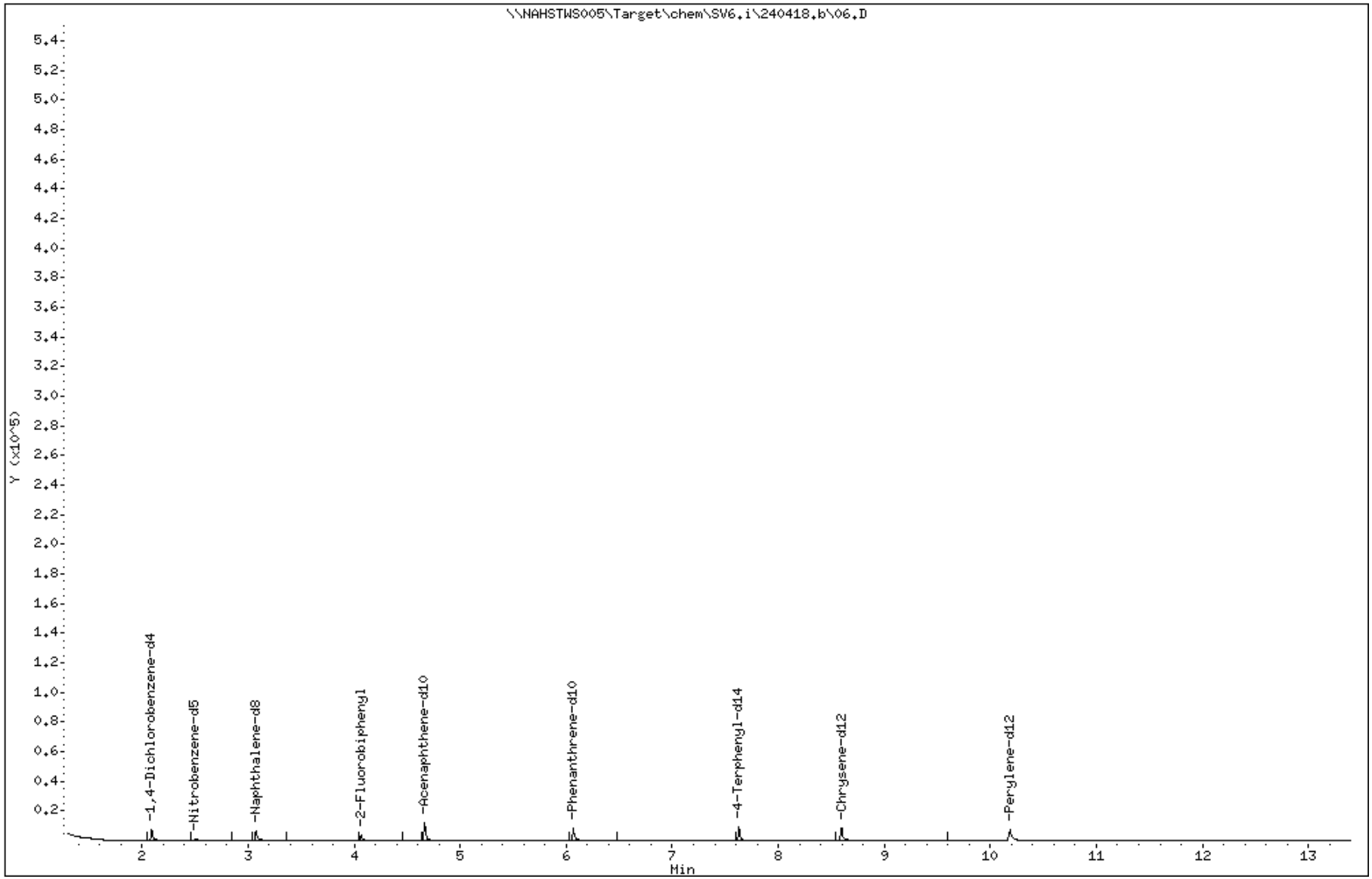
Sample Info: 14DX-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



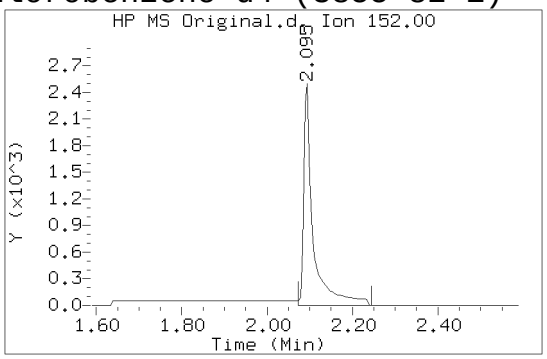
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

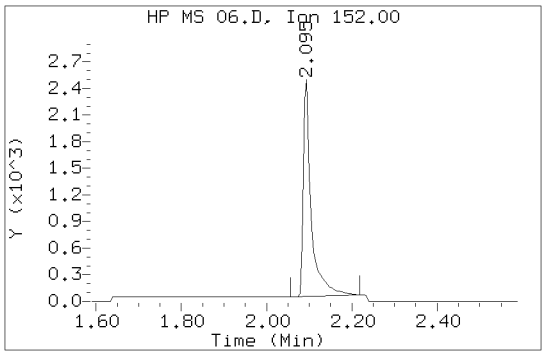
BEFORE

MASS
152
AREA
3790
HEIGHT
2499
18-Apr-2024
13:40
ALSHS
Server



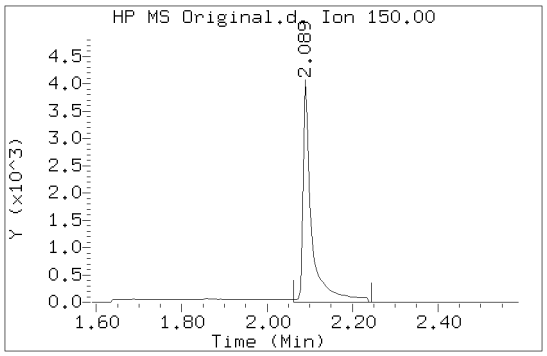
AFTER

MASS
152
AREA
3152
HEIGHT
2443
28-May-2024
13:05



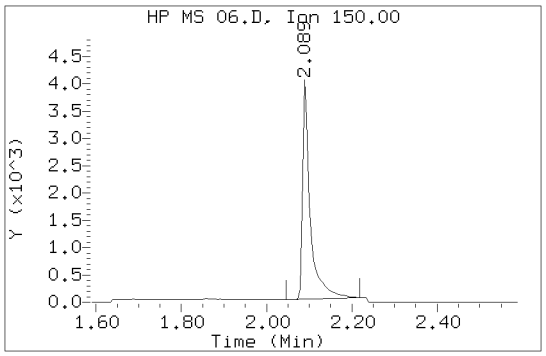
BEFORE

MASS
150
AREA
5683
HEIGHT
4072
18-Apr-2024
13:40
ALSHS
Server



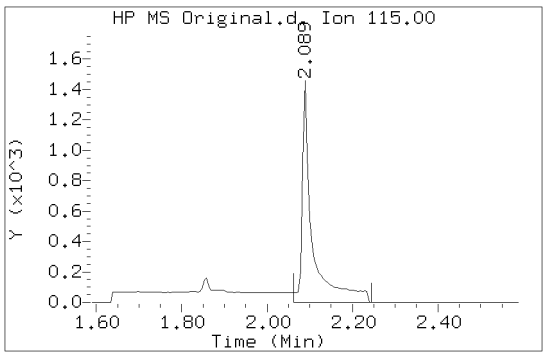
AFTER

MASS
150
AREA
4936
HEIGHT
4013
28-May-2024
13:05



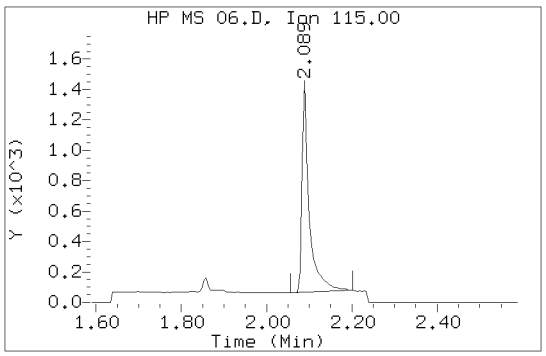
BEFORE

MASS
115
AREA
2390
HEIGHT
1458
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
115
AREA
1620
HEIGHT
1390
28-May-2024
13:05

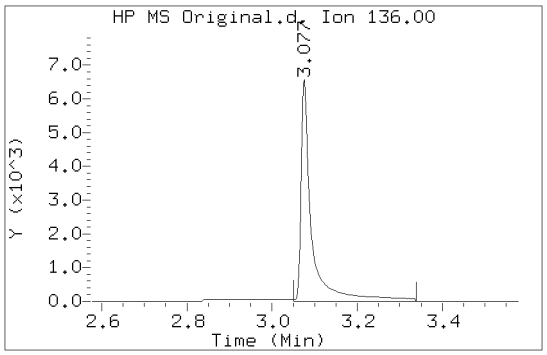


Naphthalene-d8 (1146-65-2)

Reason Code:

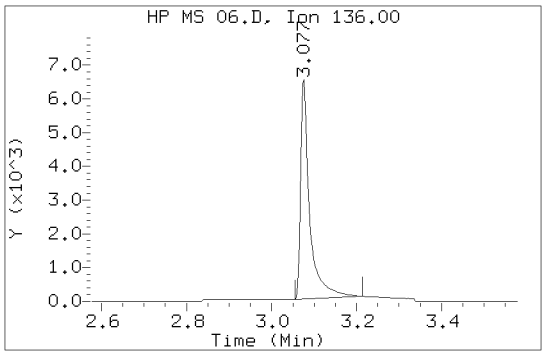
BEFORE

MASS
136
AREA
11303
HEIGHT
6569
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
136
AREA
9502
HEIGHT
6499
28-May-2024
13:05



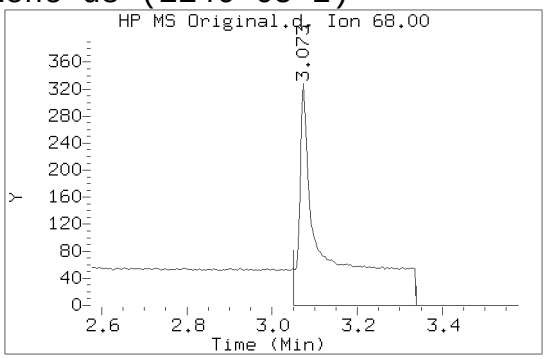
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

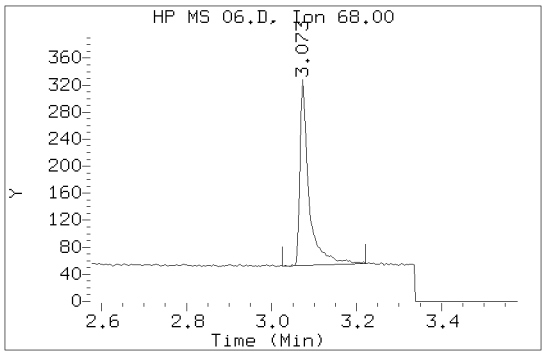
BEFORE

MASS
68
AREA
1344
HEIGHT
328
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
68
AREA
401
HEIGHT
275
28-May-2024
13:05

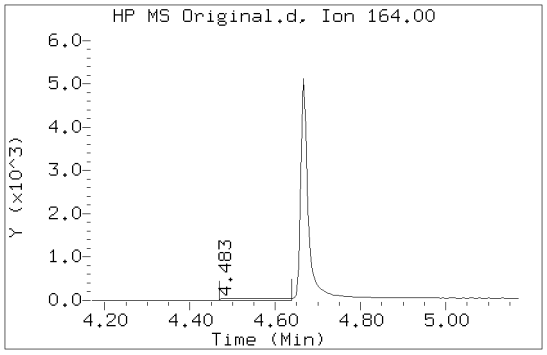


Acenaphthene-d10 (15067-26-2)

Reason Code:

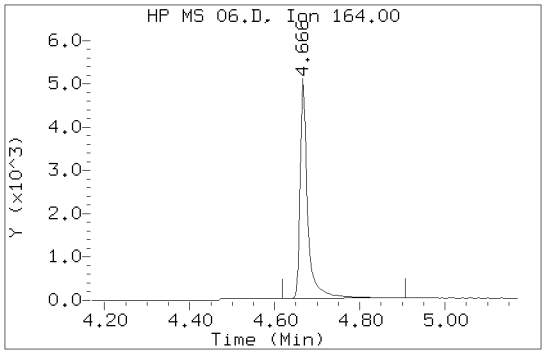
BEFORE

MASS
164
AREA
496
HEIGHT
51
18-Apr-2024
13:40
ALSHS
Server



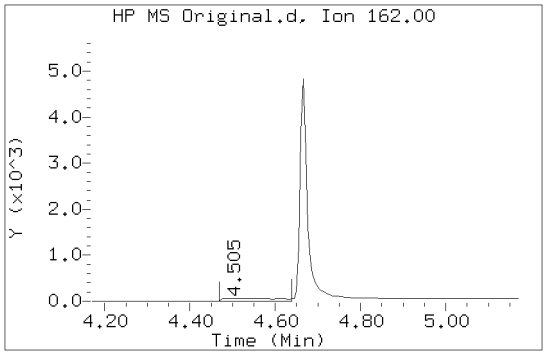
AFTER

MASS
164
AREA
6015
HEIGHT
5068
28-May-2024
13:05



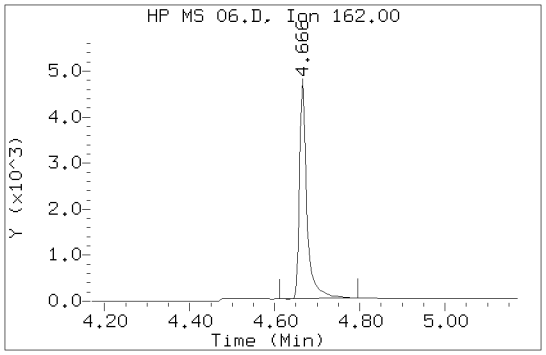
BEFORE

MASS
162
AREA
502
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



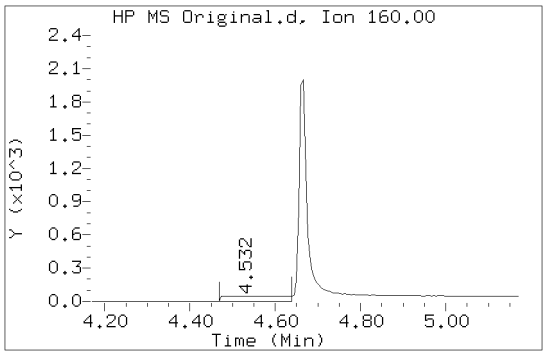
AFTER

MASS
162
AREA
5625
HEIGHT
4775
28-May-2024
13:05



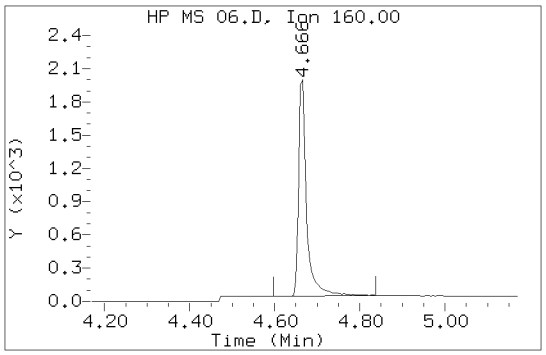
BEFORE

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
160
AREA
2508
HEIGHT
1951
28-May-2024
13:05



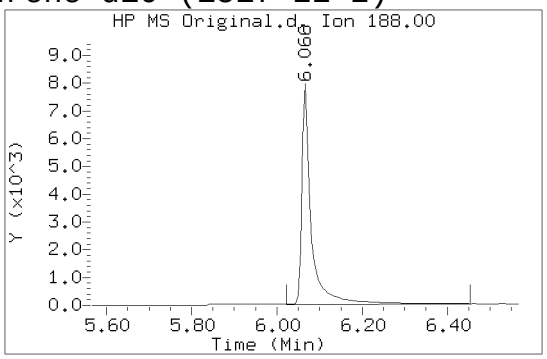
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Phenanthrene-d10 (1517-22-2)

Reason Code:

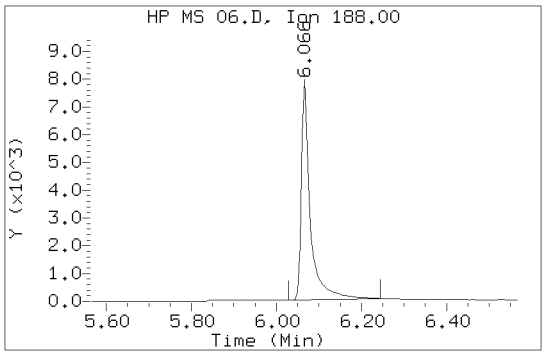
BEFORE

MASS
188
AREA
12630
HEIGHT
7964
18-Apr-2024
13:40
ALSHS
Server



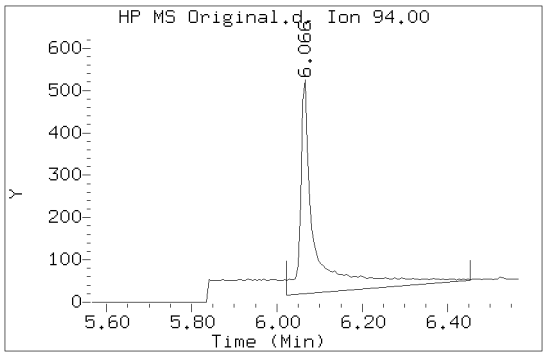
AFTER

MASS
188
AREA
11597
HEIGHT
7928
28-May-2024
13:05



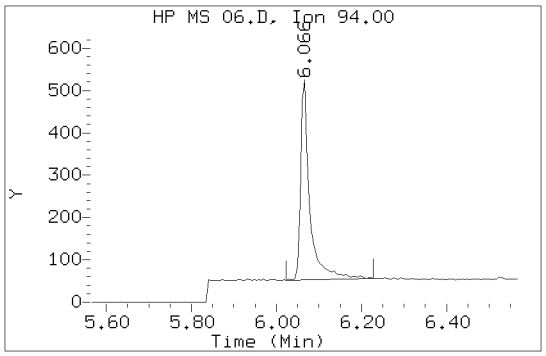
BEFORE

MASS
94
AREA
1254
HEIGHT
505
18-Apr-2024
13:40
ALSHS
Server



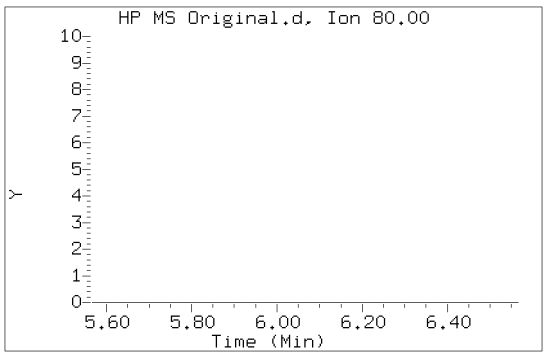
AFTER

MASS
94
AREA
716
HEIGHT
472
28-May-2024
13:05



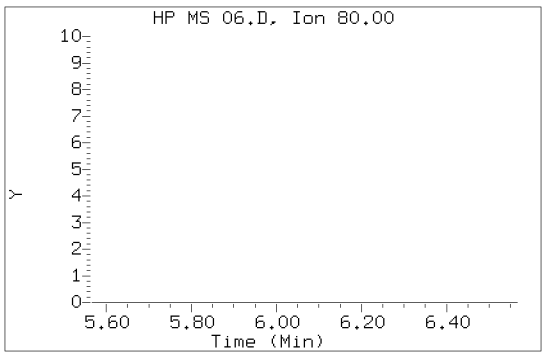
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

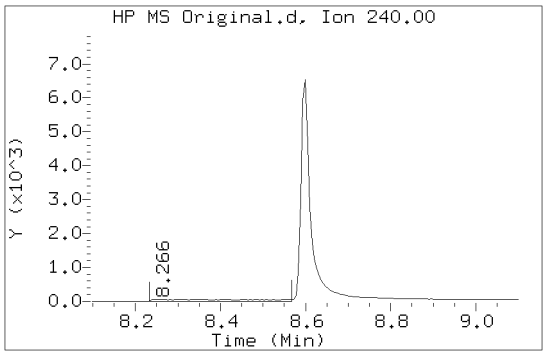


Chrysene-d12 (1719-03-5)

Reason Code:

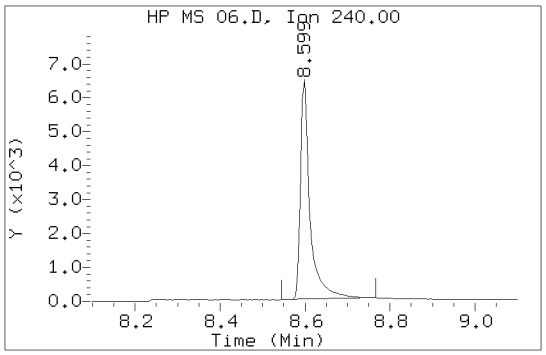
BEFORE

MASS
240
AREA
955
HEIGHT
50
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
240
AREA
10029
HEIGHT
6473
28-May-2024
13:05



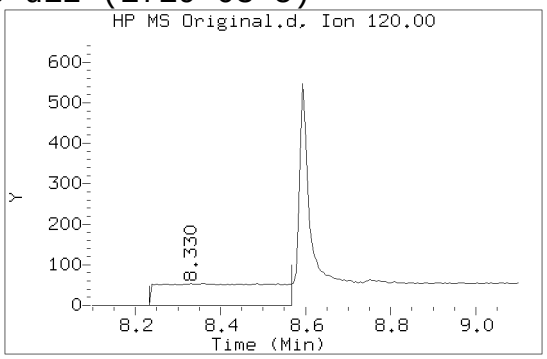
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Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Chrysene-d12 (1719-03-5)

Reason Code:

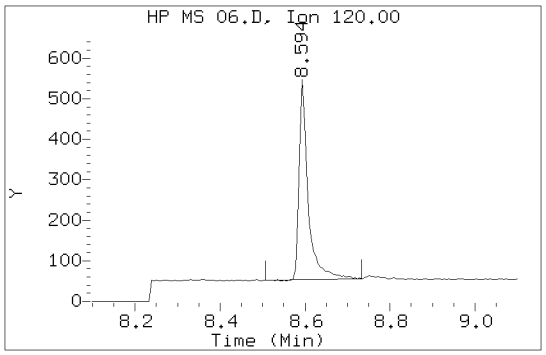
BEFORE

MASS
120
AREA
1034
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



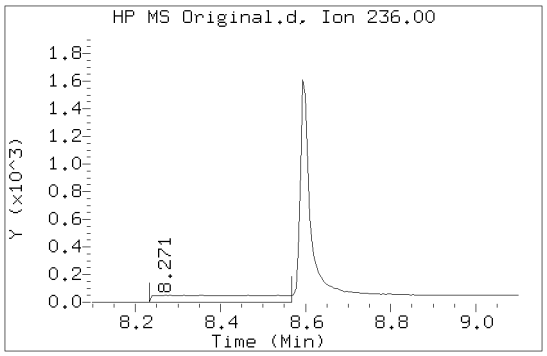
AFTER

MASS
120
AREA
729
HEIGHT
493
28-May-2024
13:05



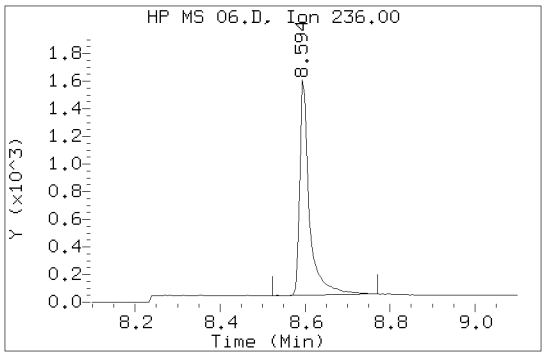
BEFORE

MASS
236
AREA
955
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
236
AREA
2416
HEIGHT
1557
28-May-2024
13:05

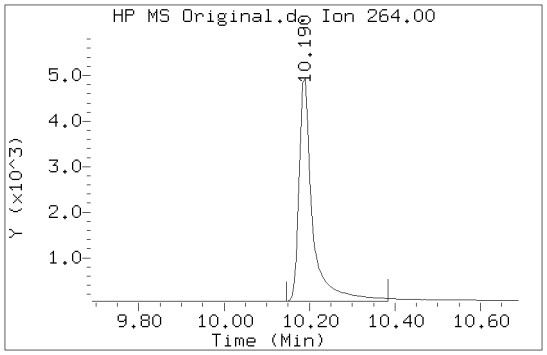


Perylene-d12 (1520-96-3)

Reason Code:

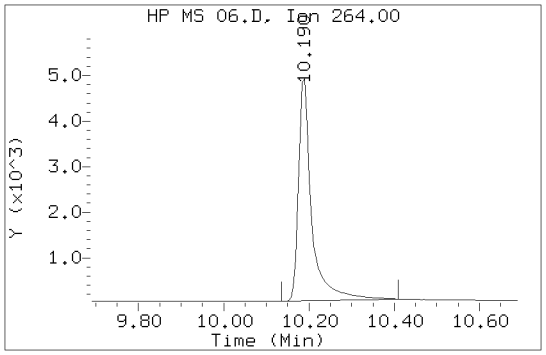
BEFORE

MASS
264
AREA
10683
HEIGHT
4875
18-Apr-2024
13:40
ALSHS
Server



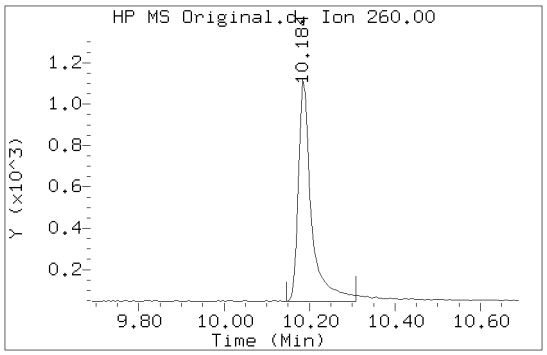
AFTER

MASS
264
AREA
10408
HEIGHT
4868
28-May-2024
13:05



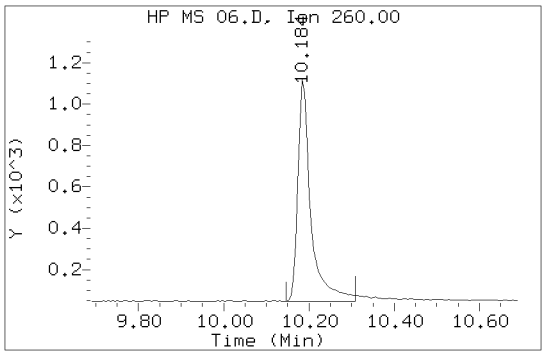
BEFORE

MASS
260
AREA
2254
HEIGHT
1070
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
260
AREA
2254
HEIGHT
1070
28-May-2024
13:05



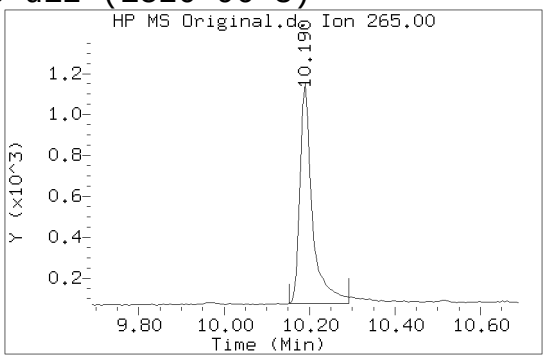
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Perylene-d12 (1520-96-3)

Reason Code:

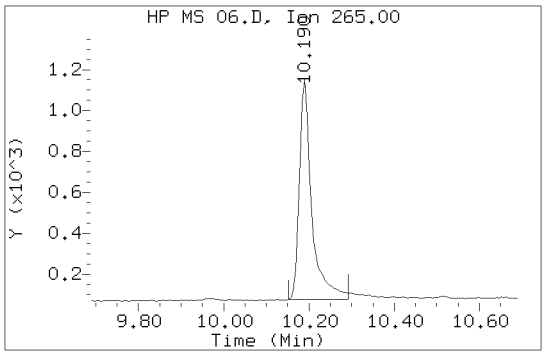
BEFORE

MASS
265
AREA
2161
HEIGHT
1074
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
265
AREA
2161
HEIGHT
1074
28-May-2024
13:05

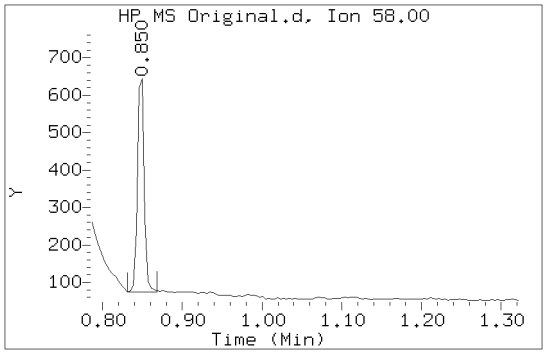


1,4-Dioxane ()

Reason Code:

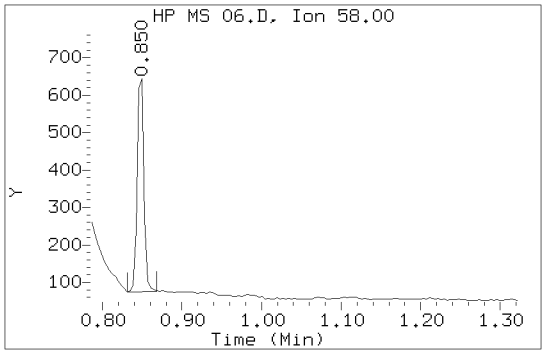
BEFORE

MASS
58
AREA
339
HEIGHT
569
18-Apr-2024
13:40
ALSHS
Server



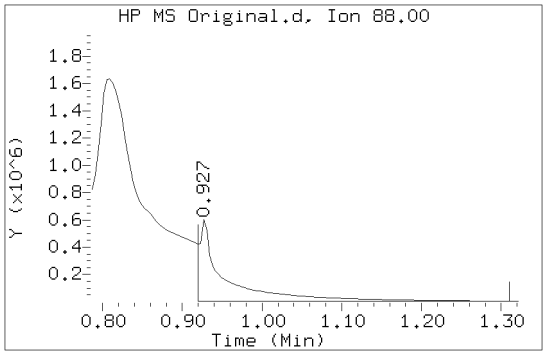
AFTER

MASS
58
AREA
339
HEIGHT
568
28-May-2024
13:05



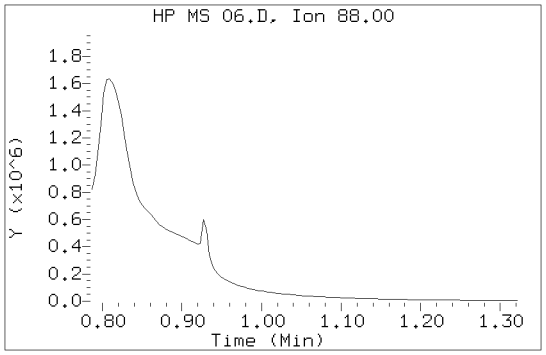
BEFORE

MASS
88
AREA
1337438
HEIGHT
596391
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

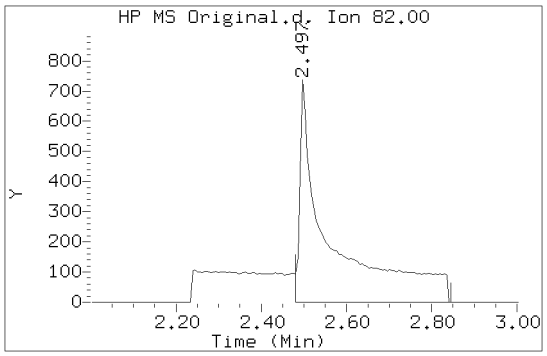


Nitrobenzene-d5 (4165-60-0)

Reason Code:

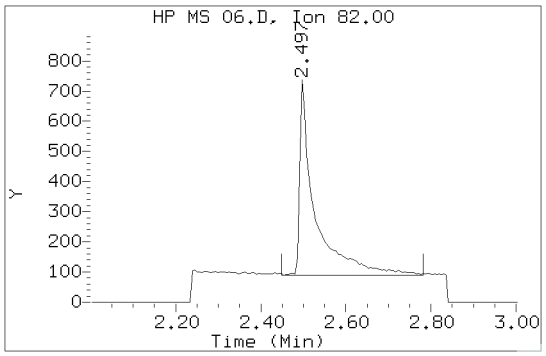
BEFORE

MASS
82
AREA
3516
HEIGHT
737
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
82
AREA
1589
HEIGHT
647
28-May-2024
13:05



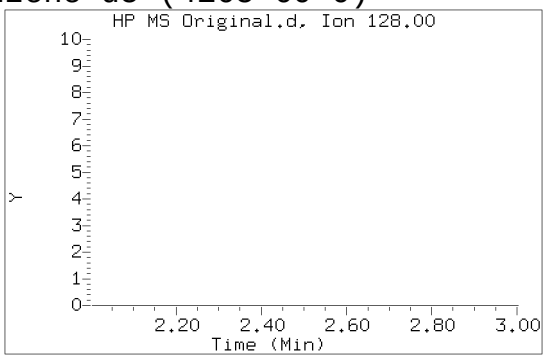
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Nitrobenzene-d5 (4165-60-0)

Reason Code:

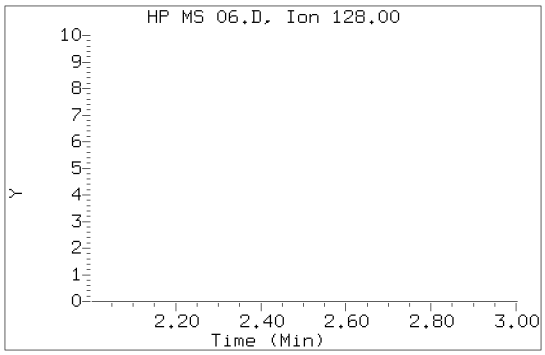
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



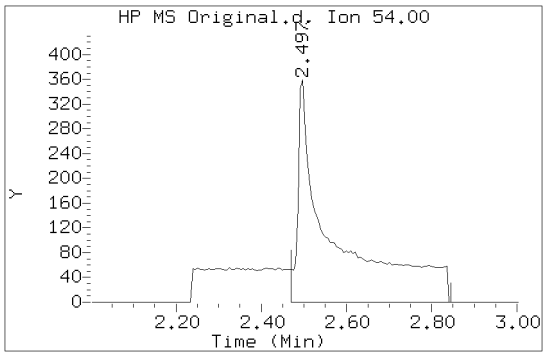
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



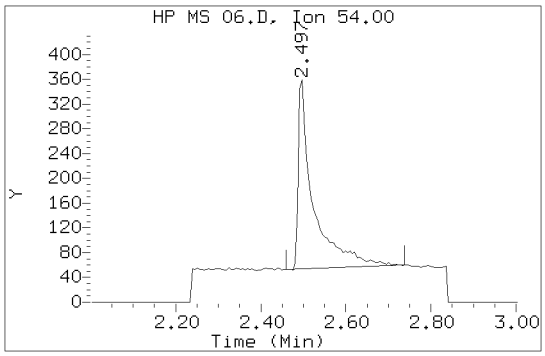
BEFORE

MASS
54
AREA
1999
HEIGHT
359
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
54
AREA
745
HEIGHT
305
28-May-2024
13:05

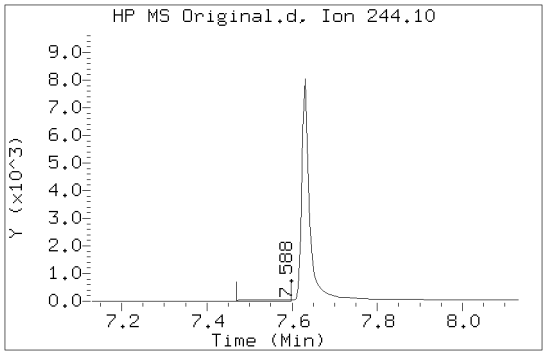


4-Terphenyl-d14 (1718-51-0)

Reason Code:

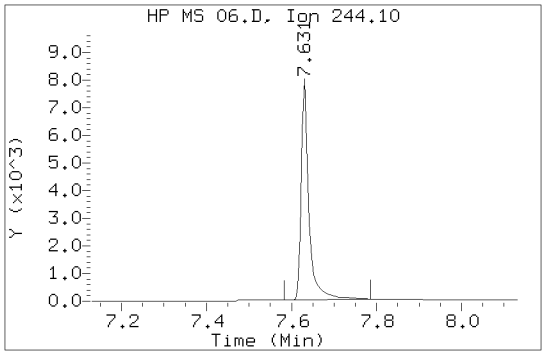
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
13:40
ALSHS
Server



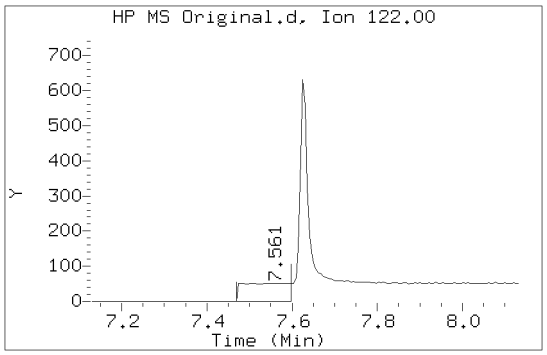
AFTER

MASS
244.1
AREA
10047
HEIGHT
7987
28-May-2024
13:05



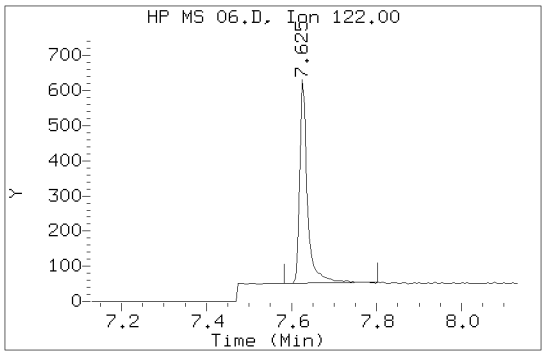
BEFORE

MASS
122
AREA
394
HEIGHT
52
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
122
AREA
741
HEIGHT
579
28-May-2024
13:05



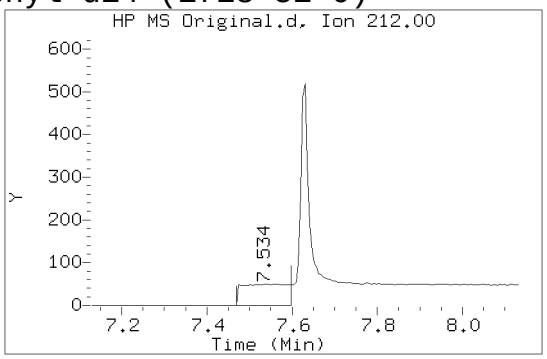
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

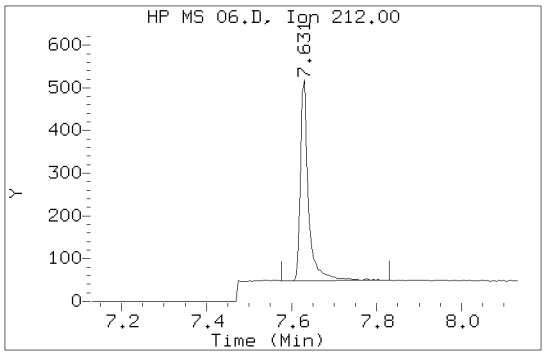
BEFORE

MASS
212
AREA
372
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
212
AREA
623
HEIGHT
470
28-May-2024
13:05

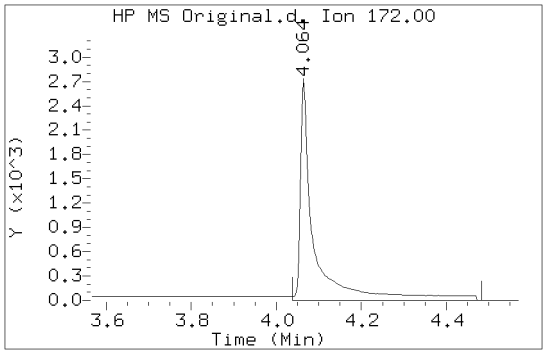


2-Fluorobiphenyl (321-60-8)

Reason Code:

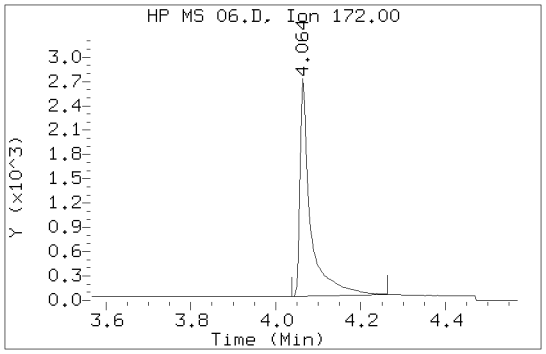
BEFORE

MASS
172
AREA
6214
HEIGHT
2735
18-Apr-2024
13:40
ALSHS
Server



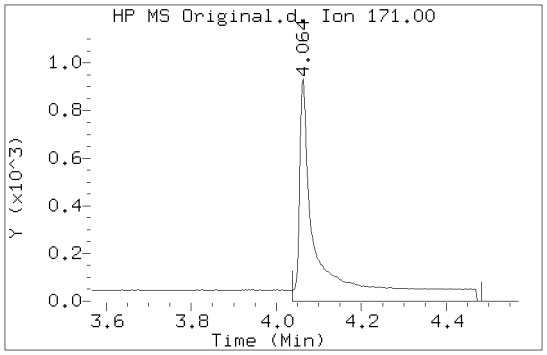
AFTER

MASS
172
AREA
4588
HEIGHT
2684
28-May-2024
13:05



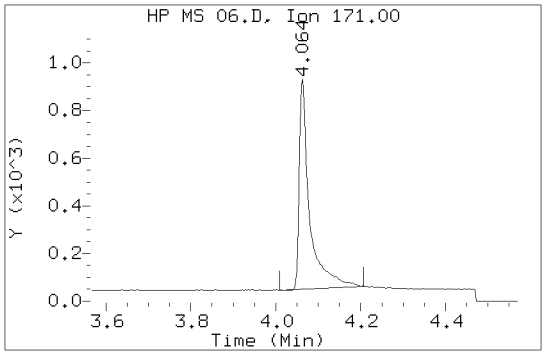
BEFORE

MASS
171
AREA
2920
HEIGHT
933
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
171
AREA
1481
HEIGHT
881
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Lab Smp Id: 14DX-0.10
Inj Date : 18-APR-2024 13:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:42 Cal File: 07.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

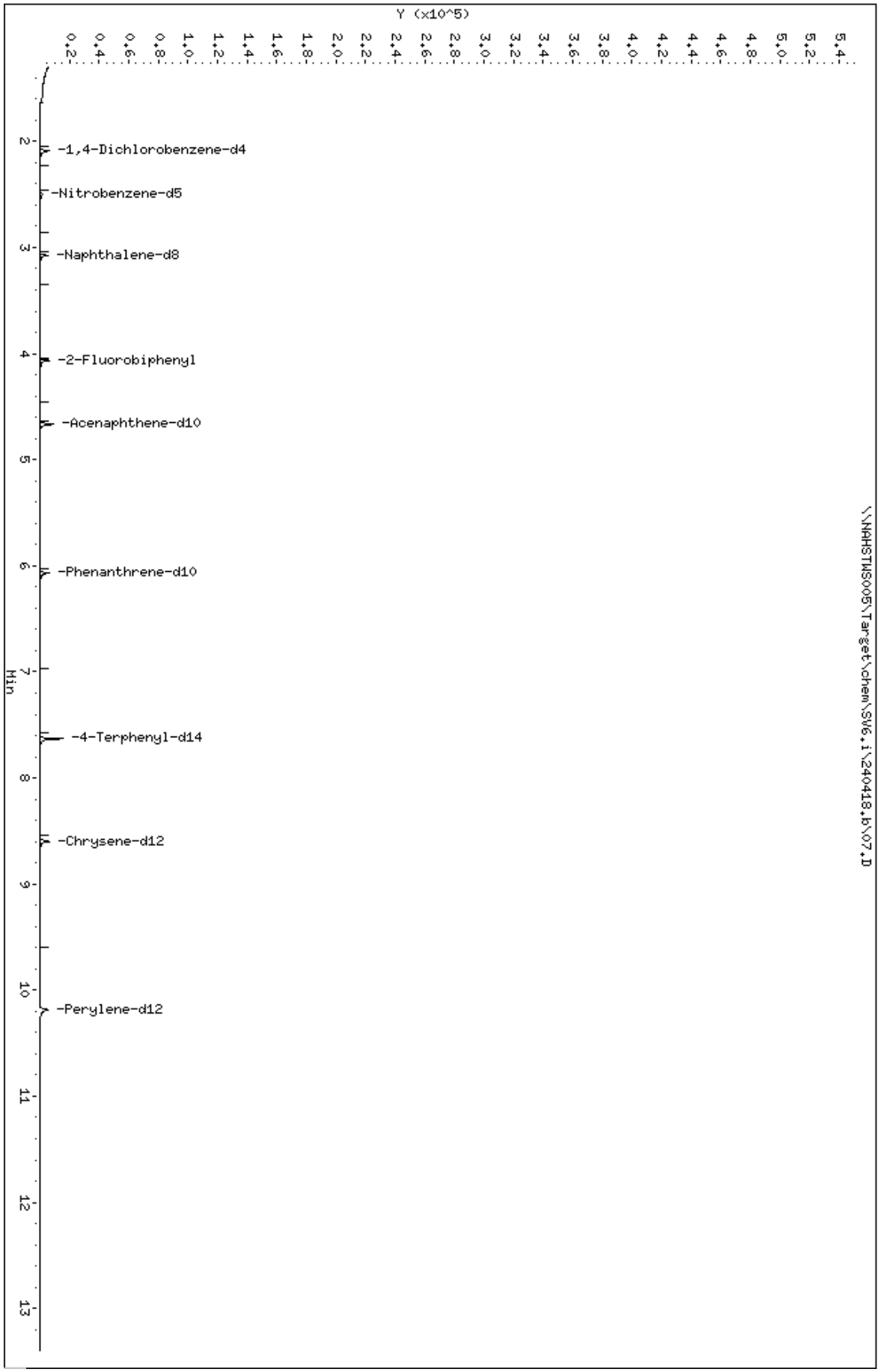
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2318	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7718	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	2452	0.10000	0.1058(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	4530	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	7366	0.10000	0.1064(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	8772	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	7453	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	15672	0.10000	0.1032(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	7806	0.10000	
1 1,4-Dioxane	58	0.827	0.820	(0.396)	473	0.10000	0.09527(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6,i\240418,b\07,D
Date : 18-APR-2024 13:42
Client ID:
Sample Info: 14DX-0.10
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6,i
Operator: LG
Column diameter: 0.28

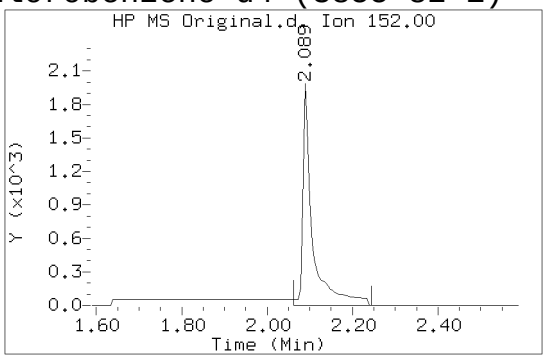


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

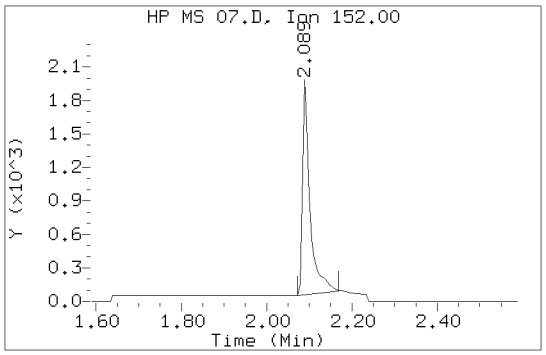
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

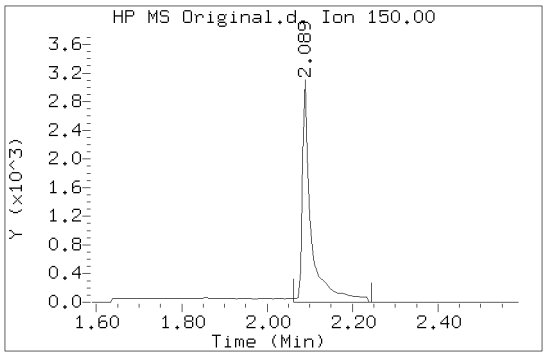
BEFORE
MASS
152
AREA
3091
HEIGHT
1986
18-Apr-2024
13:57
ALSHS
Server



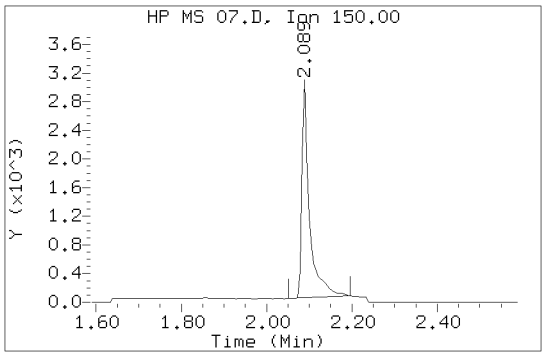
AFTER
MASS
152
AREA
2318
HEIGHT
1925
23-May-2024
08:54



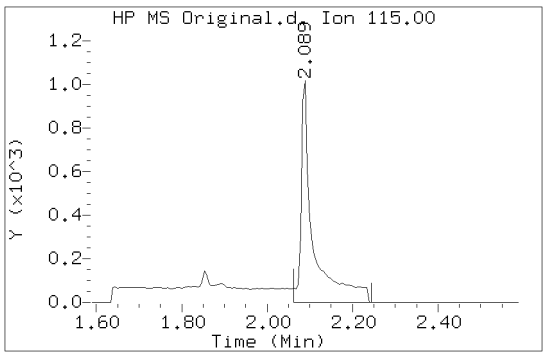
BEFORE
MASS
150
AREA
4519
HEIGHT
3105
18-Apr-2024
13:57
ALSHS
Server



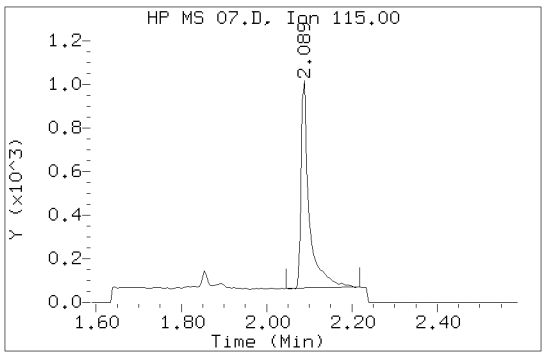
AFTER
MASS
150
AREA
3766
HEIGHT
3045
23-May-2024
08:54



BEFORE
MASS
115
AREA
1993
HEIGHT
1016
18-Apr-2024
13:57
ALSHS
Server



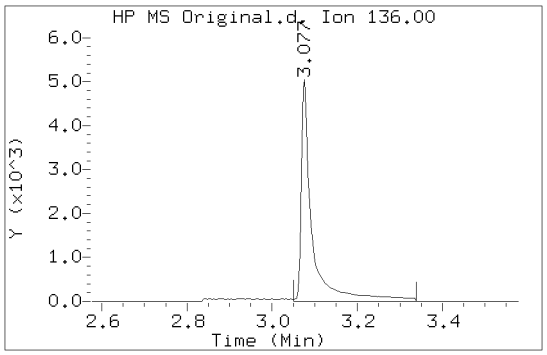
AFTER
MASS
115
AREA
1271
HEIGHT
950
23-May-2024
08:54



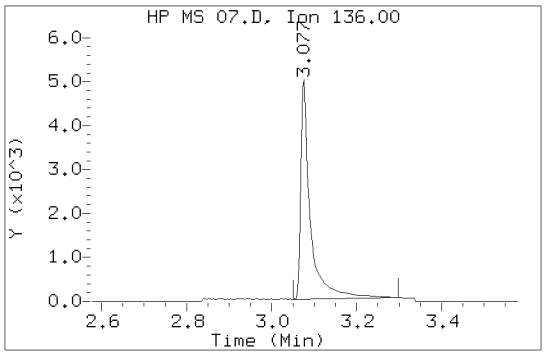
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8891
HEIGHT
5045
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
136
AREA
7718
HEIGHT
4990
23-May-2024
08:54



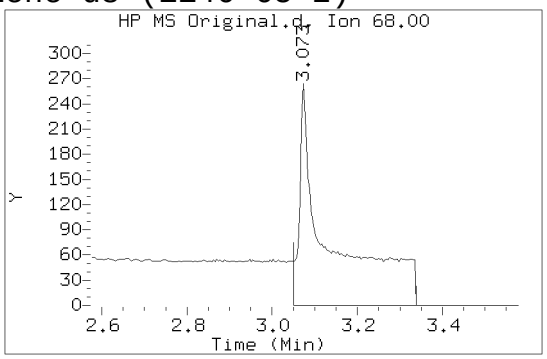
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Naphthalene-d8 (1146-65-2)

Reason Code:

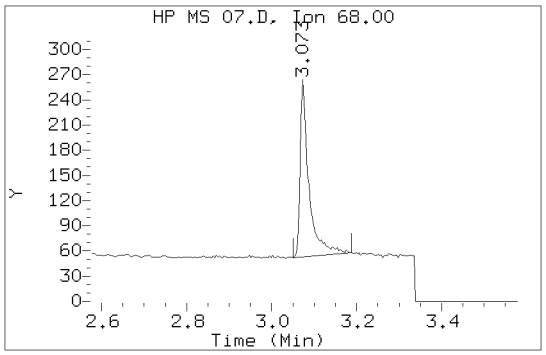
BEFORE

MASS
68
AREA
1251
HEIGHT
264
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
68
AREA
296
HEIGHT
211
23-May-2024
08:54

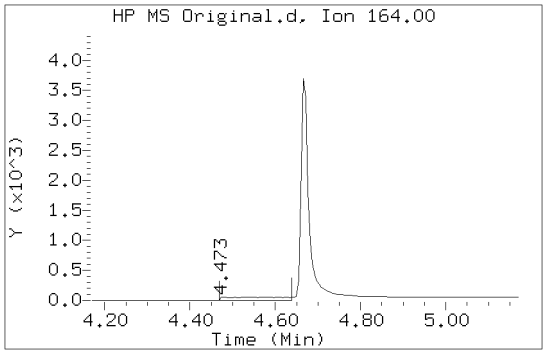


Acenaphthene-d10 (15067-26-2)

Reason Code:

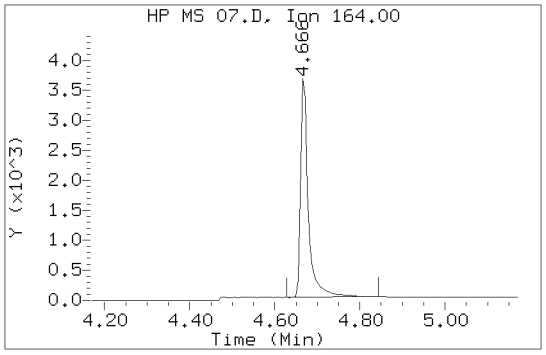
BEFORE

MASS
164
AREA
497
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



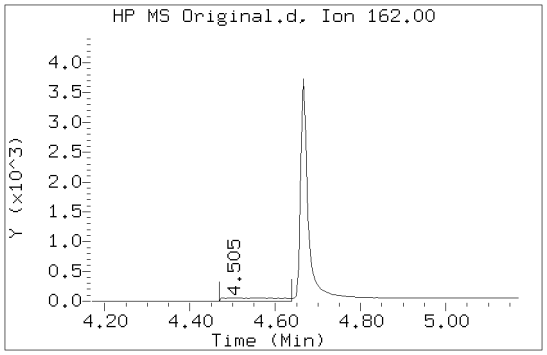
AFTER

MASS
164
AREA
4530
HEIGHT
3643
23-May-2024
08:54



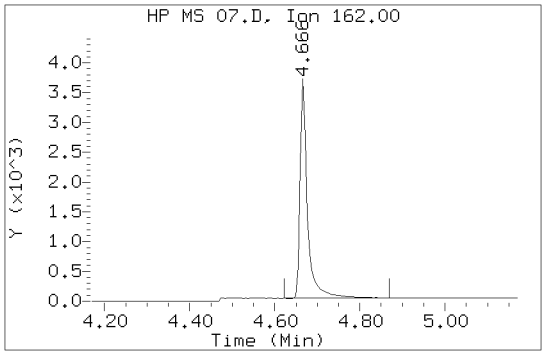
BEFORE

MASS
162
AREA
500
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



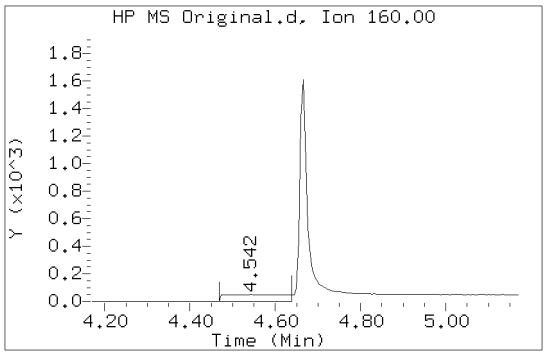
AFTER

MASS
162
AREA
4355
HEIGHT
3679
23-May-2024
08:54



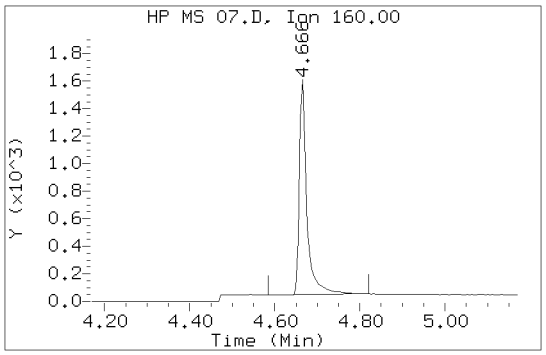
BEFORE

MASS
160
AREA
483
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
160
AREA
1883
HEIGHT
1560
23-May-2024
08:54



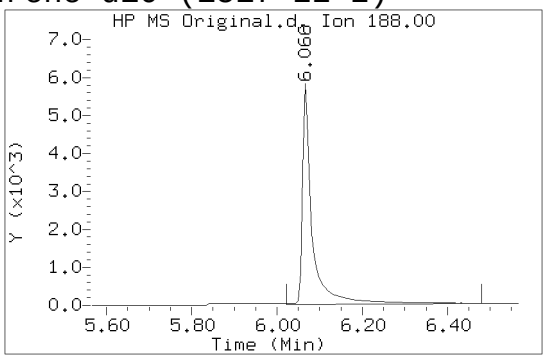
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Phenanthrene-d10 (1517-22-2)

Reason Code:

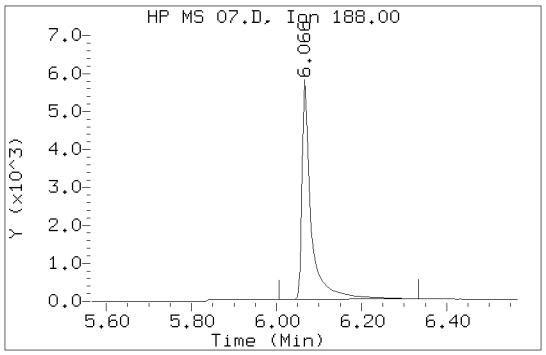
BEFORE

MASS
188
AREA
9529
HEIGHT
5821
18-Apr-2024
13:57
ALSHS
Server



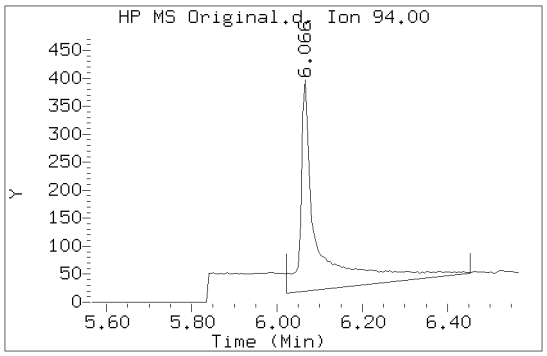
AFTER

MASS
188
AREA
8772
HEIGHT
5788
23-May-2024
08:54



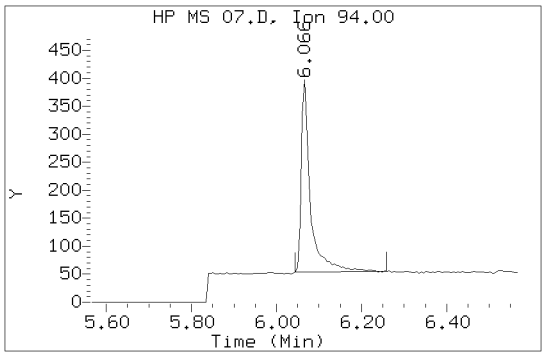
BEFORE

MASS
94
AREA
1042
HEIGHT
377
18-Apr-2024
13:57
ALSHS
Server



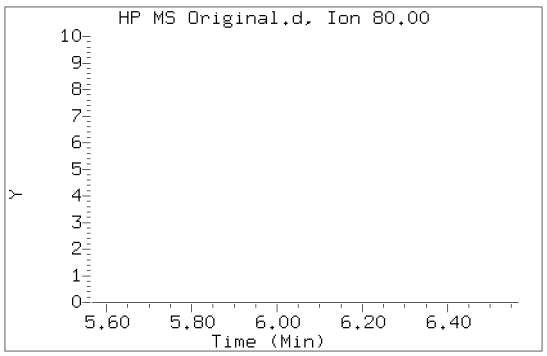
AFTER

MASS
94
AREA
518
HEIGHT
342
23-May-2024
08:54



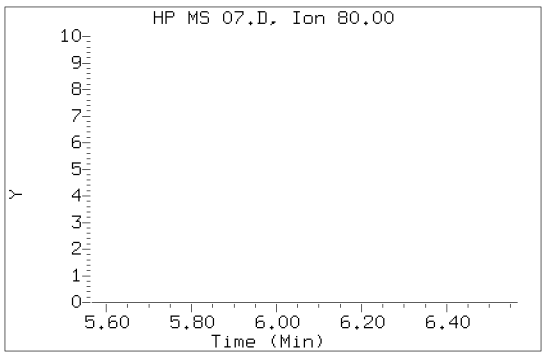
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

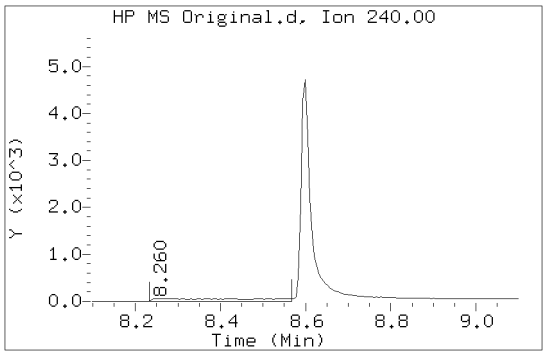


Chrysene-d12 (1719-03-5)

Reason Code:

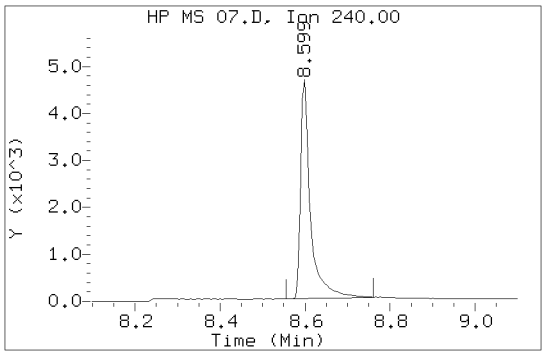
BEFORE

MASS
240
AREA
957
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
240
AREA
7453
HEIGHT
4662
23-May-2024
08:54



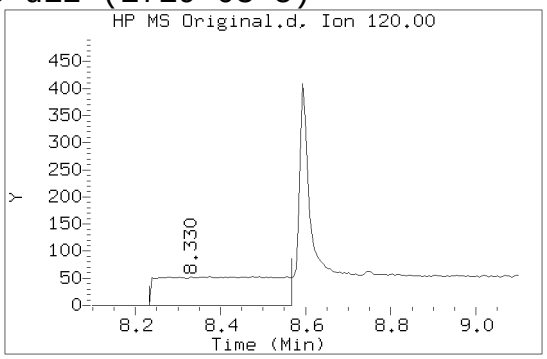
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Chrysene-d12 (1719-03-5)

Reason Code:

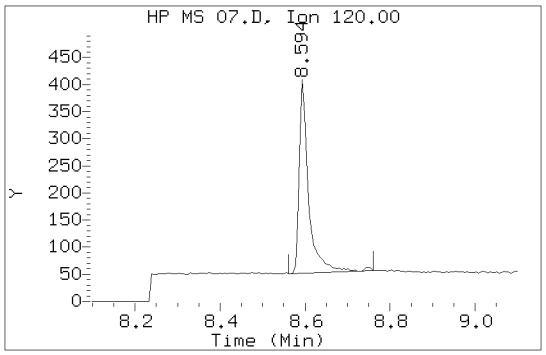
BEFORE

MASS
120
AREA
1029
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



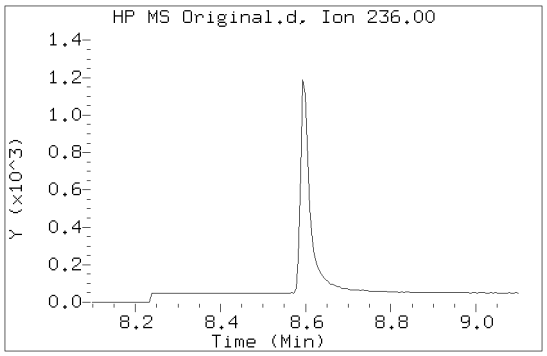
AFTER

MASS
120
AREA
541
HEIGHT
357
23-May-2024
08:54



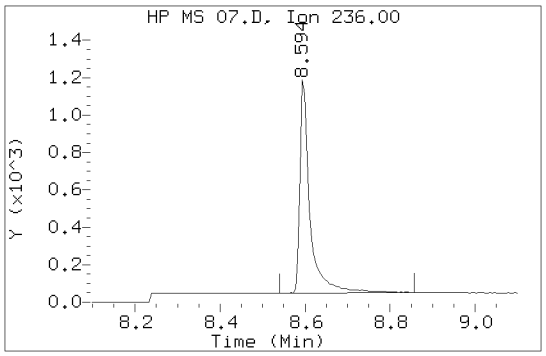
BEFORE

MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
236
AREA
1875
HEIGHT
1139
23-May-2024
08:54

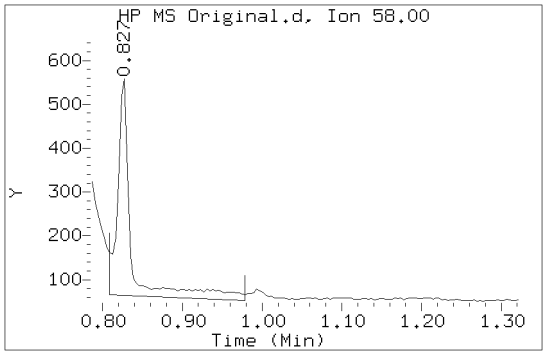


1,4-Dioxane ()

Reason Code:

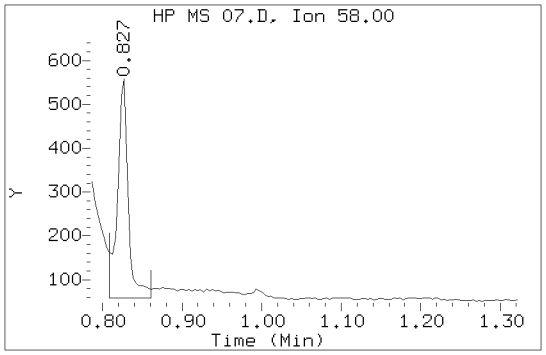
BEFORE

MASS
58
AREA
589
HEIGHT
493
18-Apr-2024
13:57
ALSHS
Server



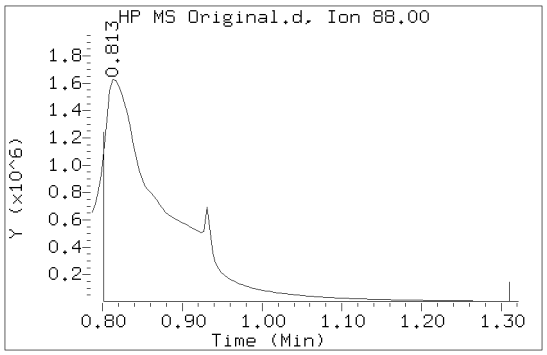
AFTER

MASS
58
AREA
473
HEIGHT
499
23-May-2024
08:54



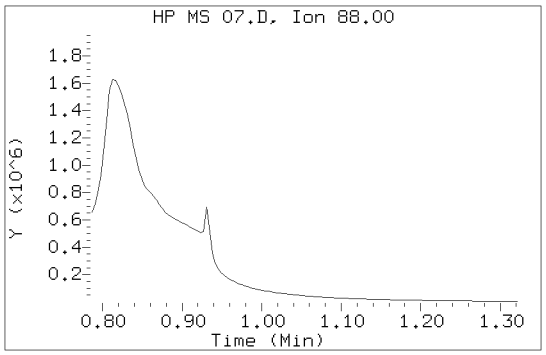
BEFORE

MASS
88
AREA
8266937
HEIGHT
1620371
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
88
AREA
8281553
HEIGHT
1620838
23-May-2024
08:54



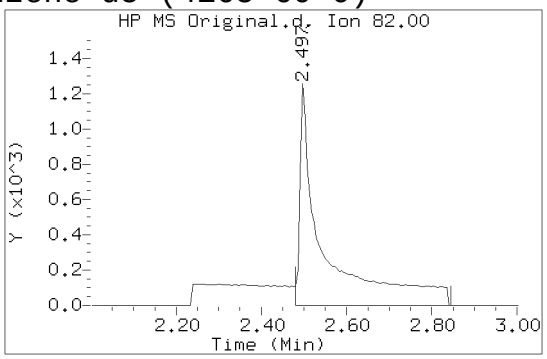
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Nitrobenzene-d5 (4165-60-0)

Reason Code:

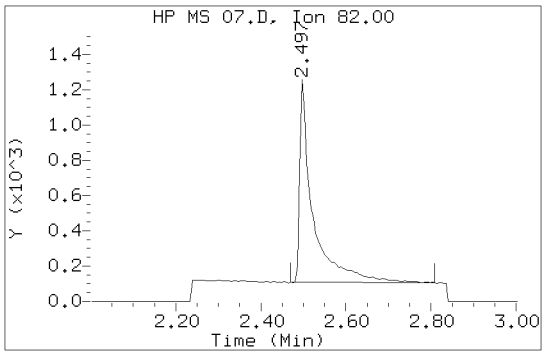
BEFORE

MASS
82
AREA
4733
HEIGHT
1257
18-Apr-2024
13:57
ALSHS
Server



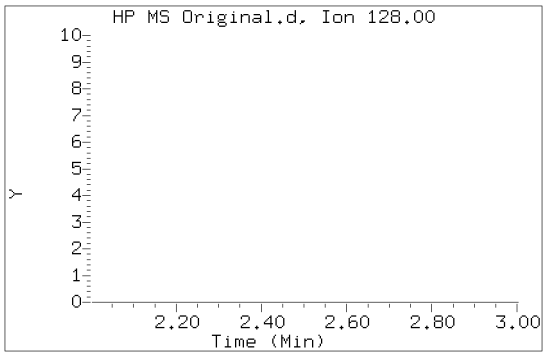
AFTER

MASS
82
AREA
2452
HEIGHT
1148
23-May-2024
08:54



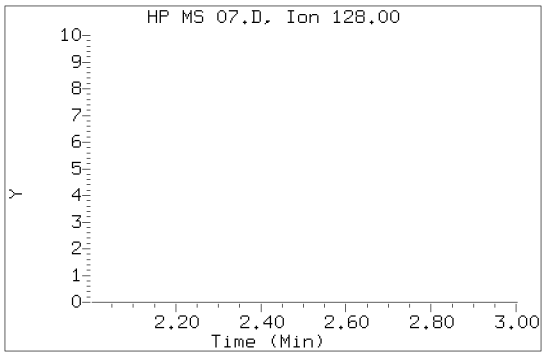
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



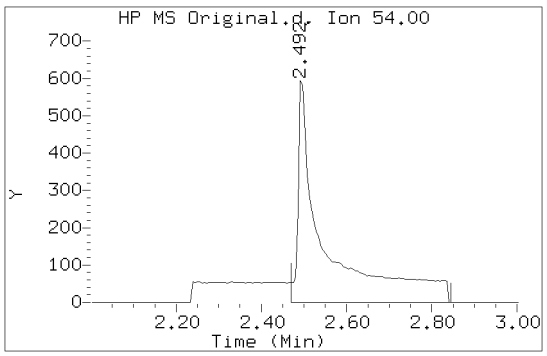
AFTER

MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



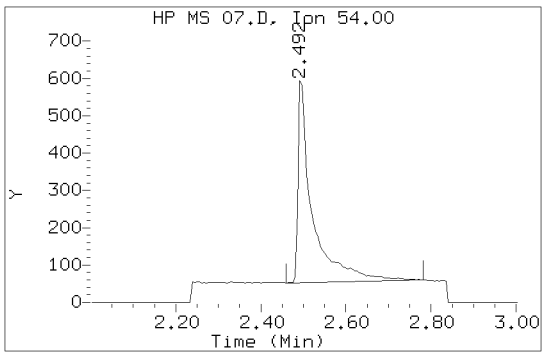
BEFORE

MASS
54
AREA
2506
HEIGHT
594
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
54
AREA
1263
HEIGHT
541
23-May-2024
08:54

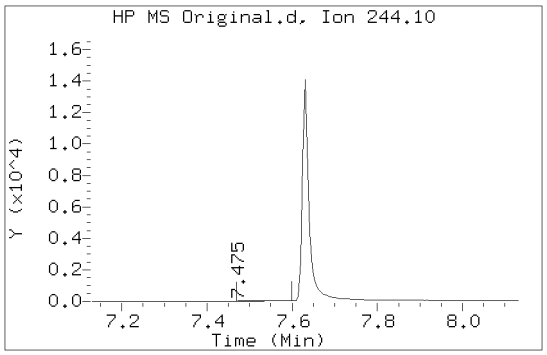


4-Terphenyl-d14 (1718-51-0)

Reason Code:

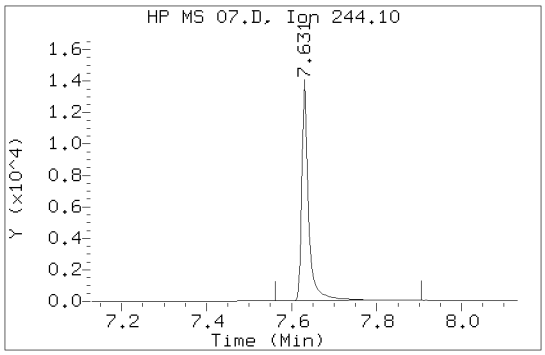
BEFORE

MASS
244.1
AREA
172
HEIGHT
45
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
244.1
AREA
15672
HEIGHT
14035
23-May-2024
08:54



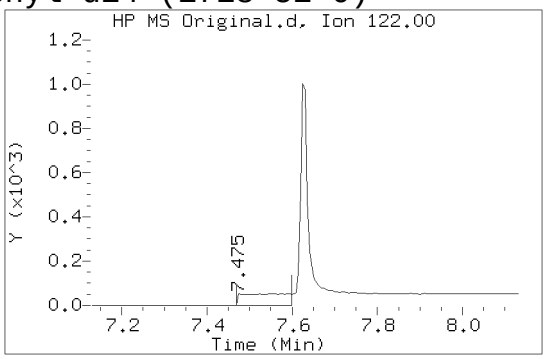
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

4-Terphenyl-d14 (1718-51-0)

Reason Code:

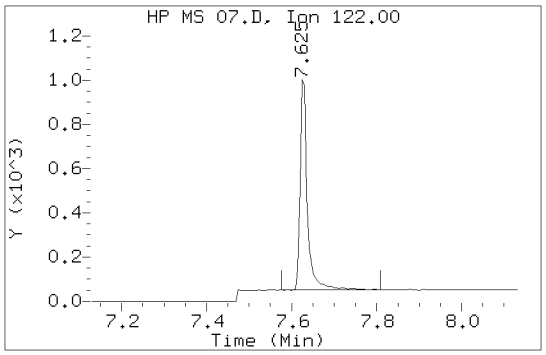
BEFORE

MASS
122
AREA
389
HEIGHT
51
18-Apr-2024
13:57
ALSHS
Server



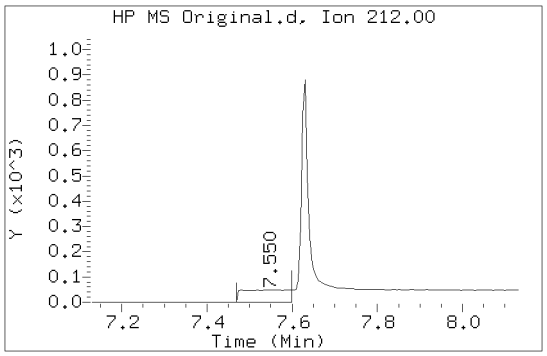
AFTER

MASS
122
AREA
1143
HEIGHT
950
23-May-2024
08:54



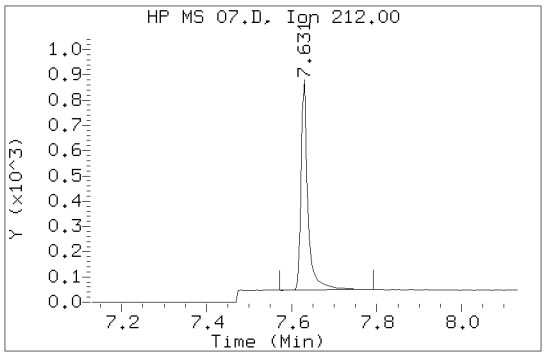
BEFORE

MASS
212
AREA
368
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
212
AREA
942
HEIGHT
831
23-May-2024
08:54

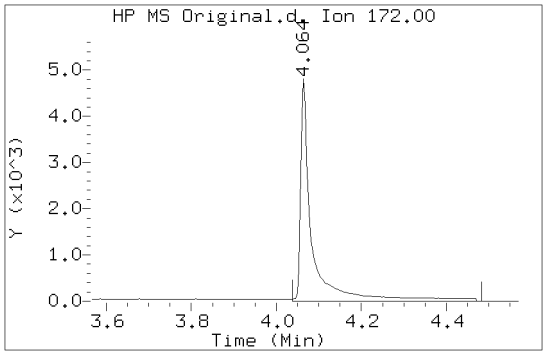


2-Fluorobiphenyl (321-60-8)

Reason Code:

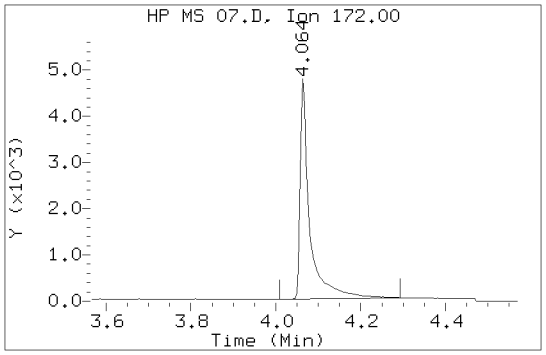
BEFORE

MASS
172
AREA
9042
HEIGHT
4809
18-Apr-2024
13:57
ALSHS
Server



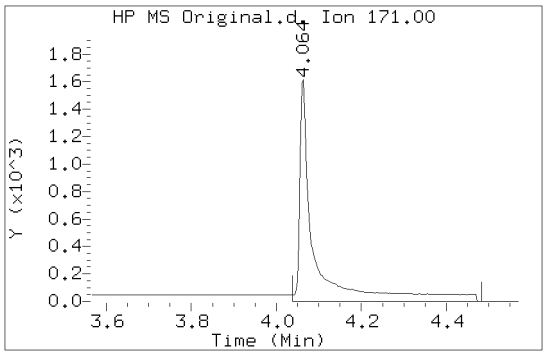
AFTER

MASS
172
AREA
7366
HEIGHT
4757
23-May-2024
08:54



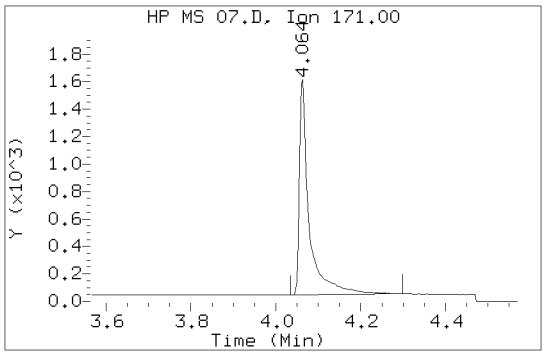
BEFORE

MASS
171
AREA
3879
HEIGHT
1615
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
171
AREA
2501
HEIGHT
1566
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Lab Smp Id: 14DX-0.15
Inj Date : 18-APR-2024 14:00
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:00 Cal File: 08.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

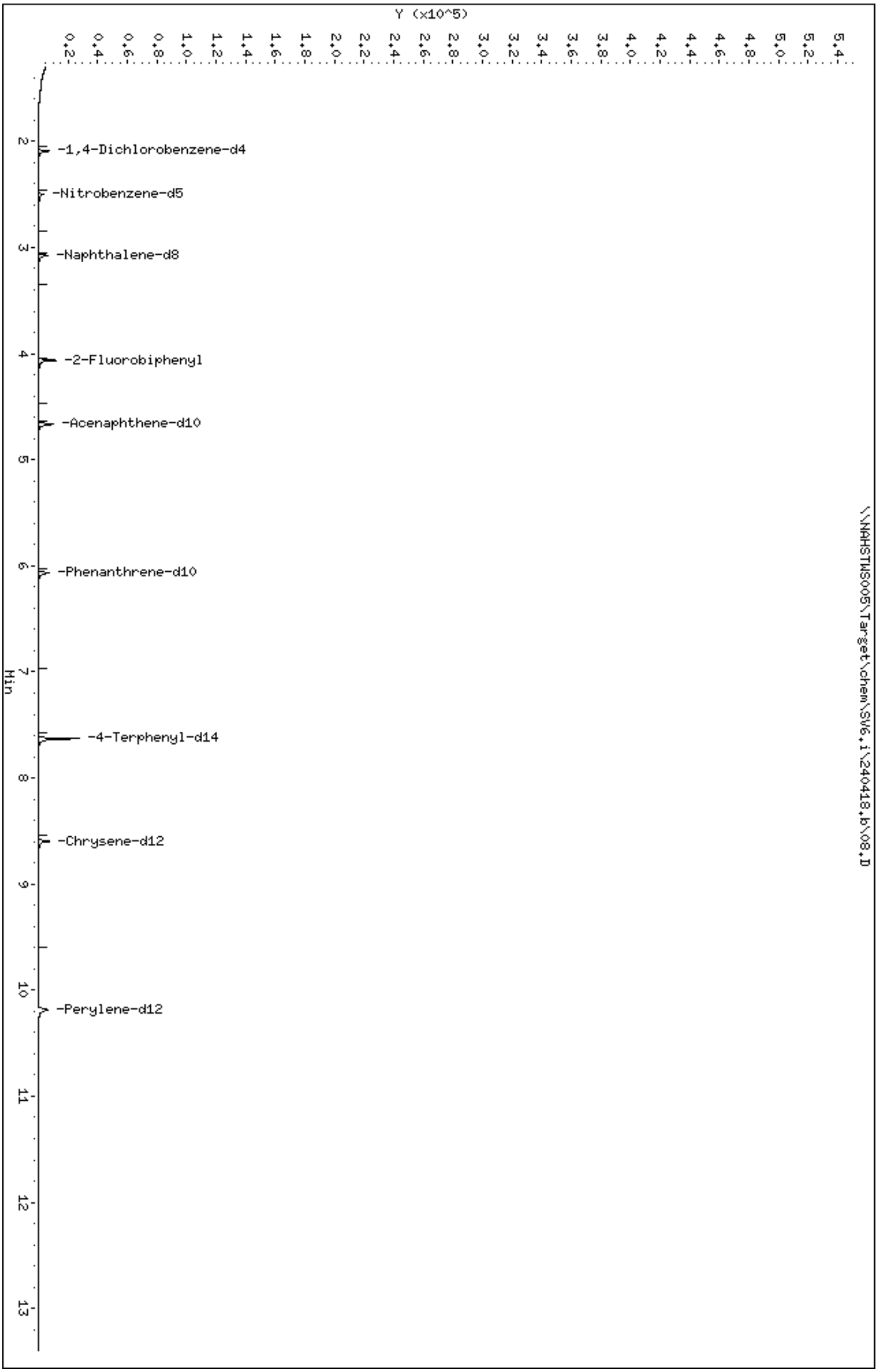
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3084	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9604	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	4499	0.15000	0.1560(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5448	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	13067	0.15000	0.1569(AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	10645	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	8954	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	27519	0.15000	0.1509(AM)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	9228	0.10000	
1 1,4-Dioxane	58	0.842	0.820	(0.402)	984	0.15000	0.1490(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6,i\240418,b\08,D
Date : 18-APR-2024 14:00
Client ID:
Sample Info: 14DX-0.15
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6,i
Operator: LG
Column diameter: 0.28

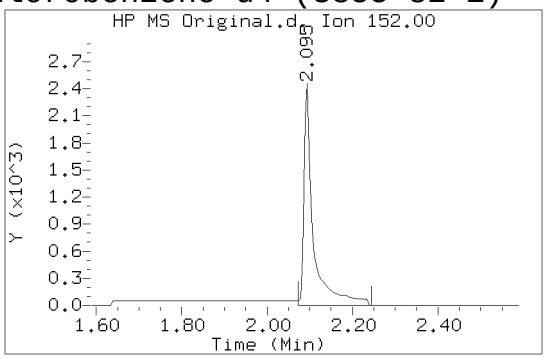


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

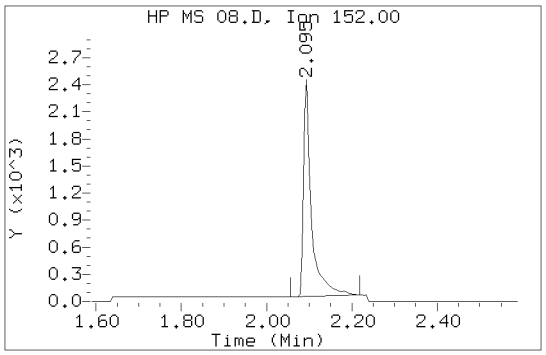
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

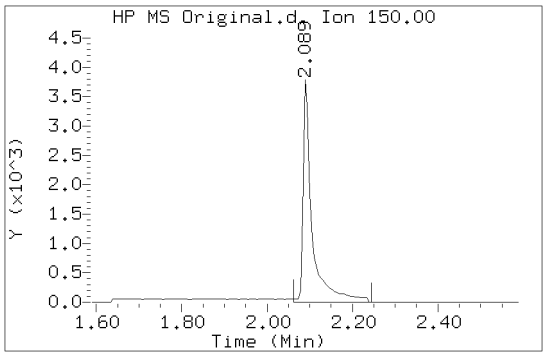
BEFORE
MASS
152
AREA
3705
HEIGHT
2456
18-Apr-2024
14:16
ALSHS
Server



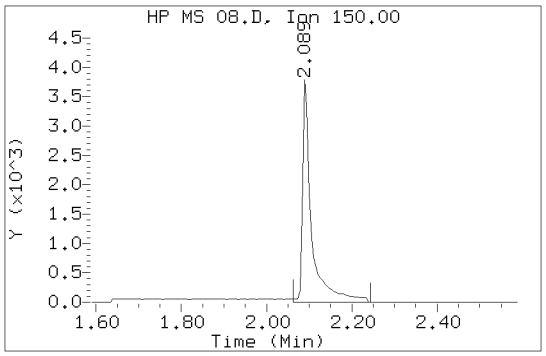
AFTER
MASS
152
AREA
3084
HEIGHT
2400
28-May-2024
13:05



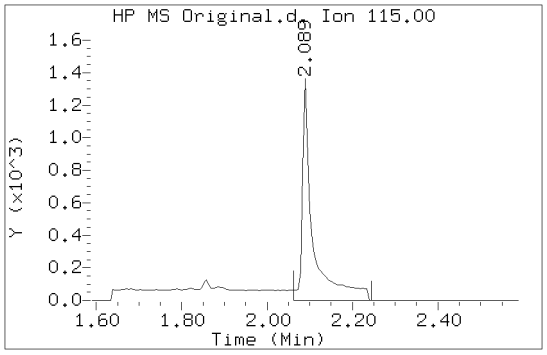
BEFORE
MASS
150
AREA
5535
HEIGHT
3786
18-Apr-2024
14:16
ALSHS
Server



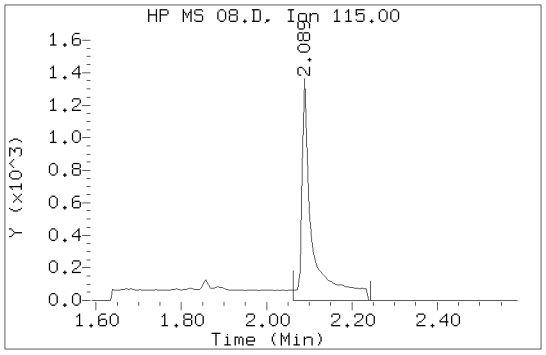
AFTER
MASS
150
AREA
5535
HEIGHT
3786
28-May-2024
13:05



BEFORE
MASS
115
AREA
2326
HEIGHT
1363
18-Apr-2024
14:16
ALSHS
Server



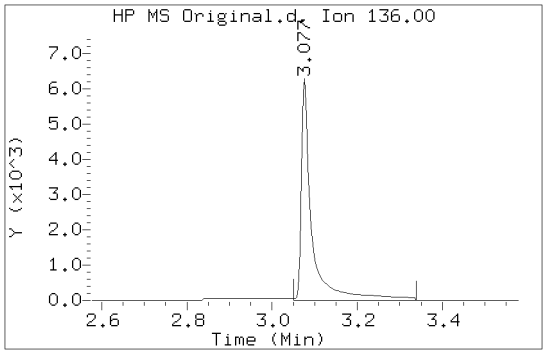
AFTER
MASS
115
AREA
2326
HEIGHT
1363
28-May-2024
13:05



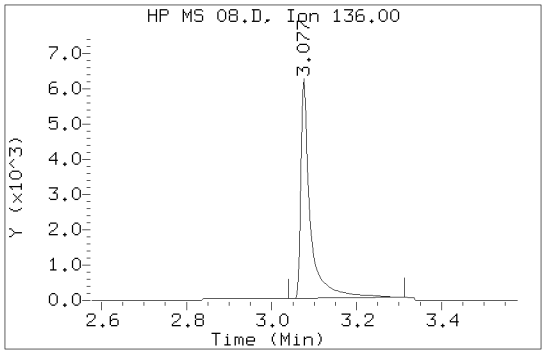
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10787
HEIGHT
6291
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
136
AREA
9604
HEIGHT
6235
28-May-2024
13:05



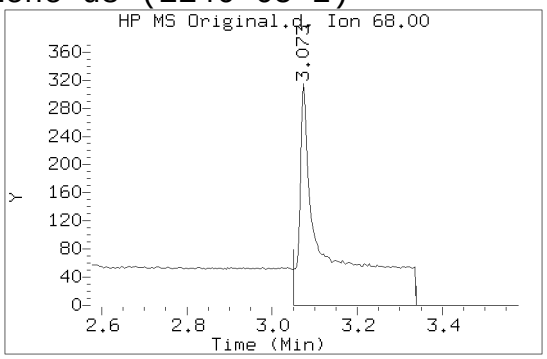
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

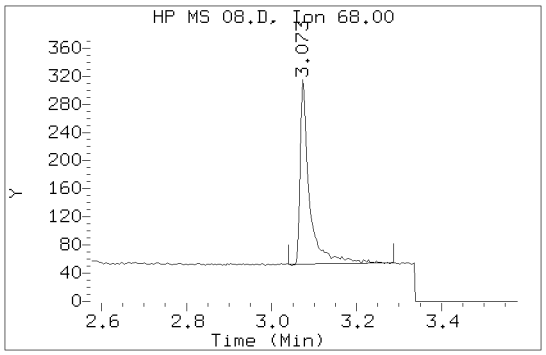
BEFORE

MASS
68
AREA
1324
HEIGHT
315
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
68
AREA
389
HEIGHT
261
28-May-2024
13:05

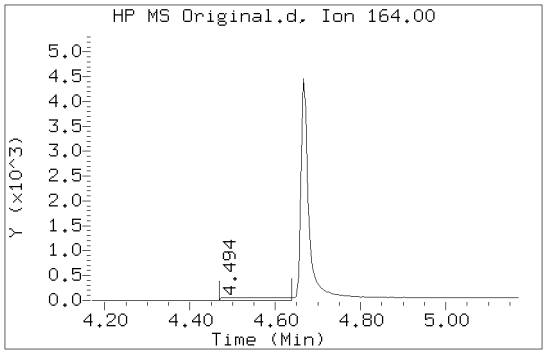


Acenaphthene-d10 (15067-26-2)

Reason Code:

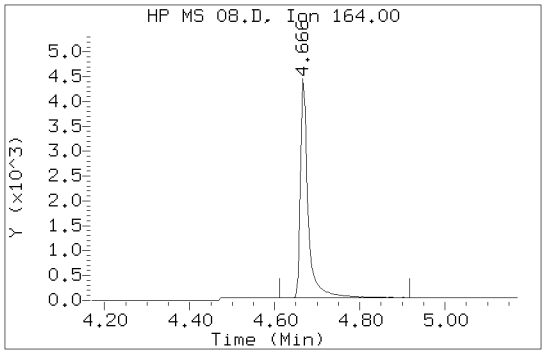
BEFORE

MASS
164
AREA
496
HEIGHT
50
18-Apr-2024
14:16
ALSHS
Server



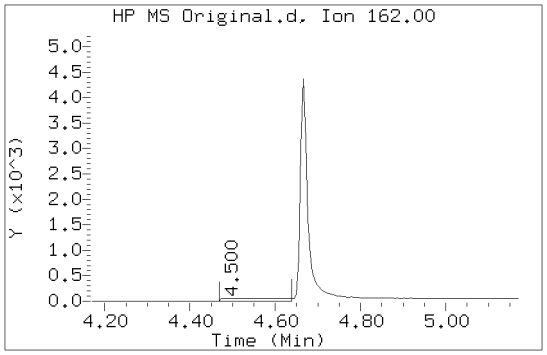
AFTER

MASS
164
AREA
5448
HEIGHT
4411
28-May-2024
13:05



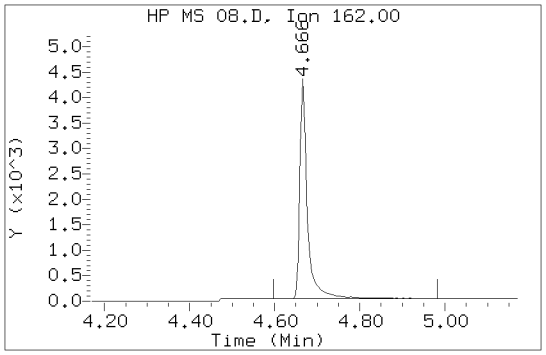
BEFORE

MASS
162
AREA
496
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



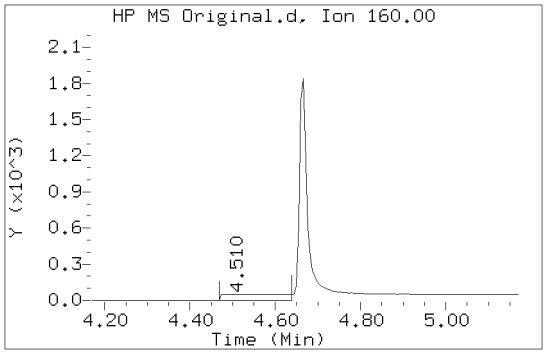
AFTER

MASS
162
AREA
5277
HEIGHT
4319
28-May-2024
13:05



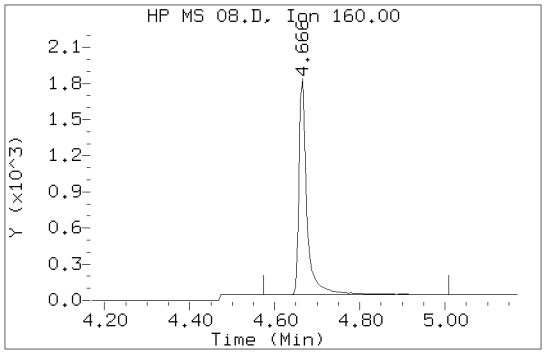
BEFORE

MASS
160
AREA
482
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
160
AREA
2305
HEIGHT
1792
28-May-2024
13:05



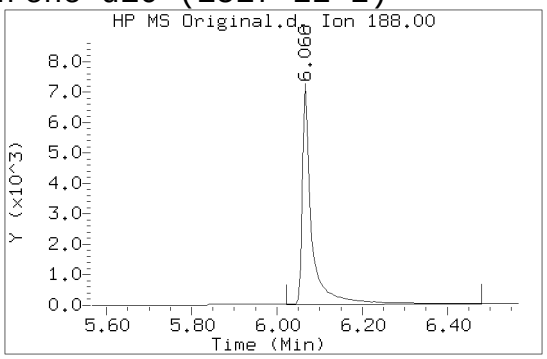
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Phenanthrene-d10 (1517-22-2)

Reason Code:

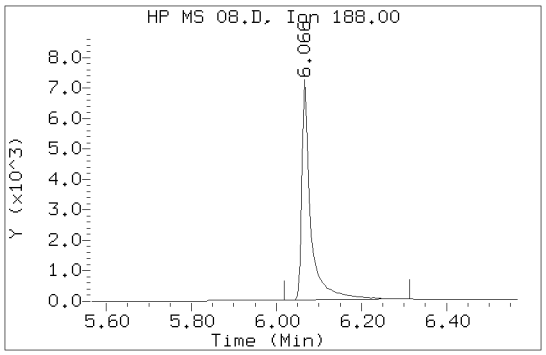
BEFORE

MASS
188
AREA
11494
HEIGHT
7257
18-Apr-2024
14:16
ALSHS
Server



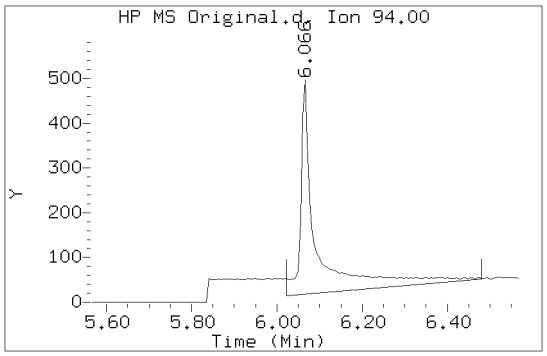
AFTER

MASS
188
AREA
10645
HEIGHT
7224
28-May-2024
13:05



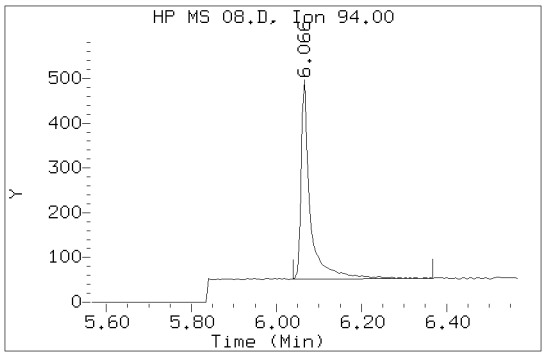
BEFORE

MASS
94
AREA
1207
HEIGHT
478
18-Apr-2024
14:16
ALSHS
Server



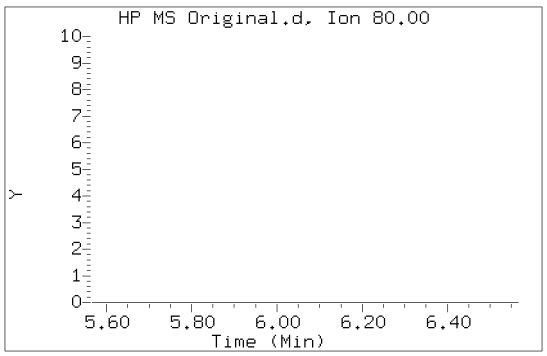
AFTER

MASS
94
AREA
674
HEIGHT
444
28-May-2024
13:05



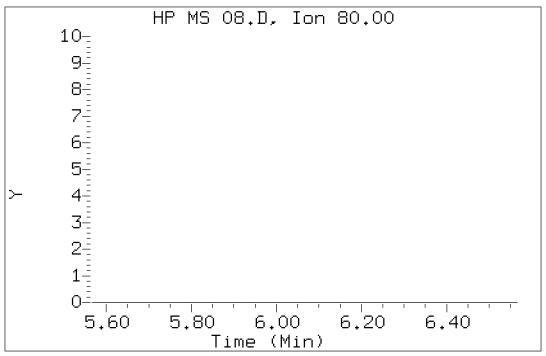
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

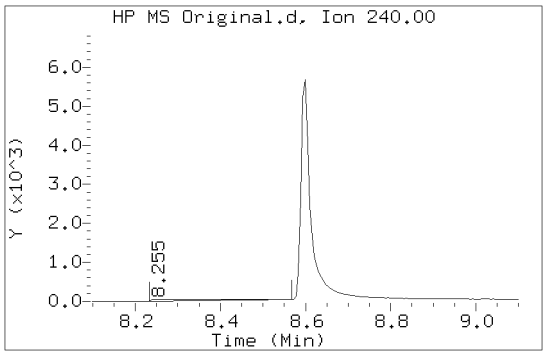


Chrysene-d12 (1719-03-5)

Reason Code:

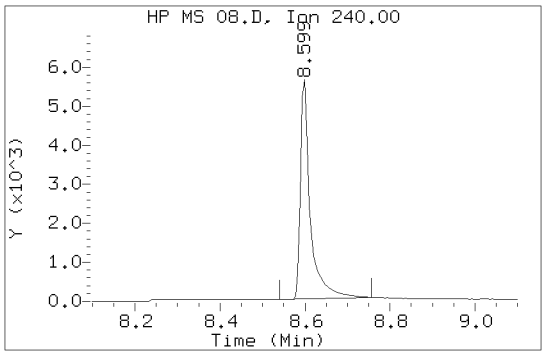
BEFORE

MASS
240
AREA
453
HEIGHT
46
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
240
AREA
8954
HEIGHT
5618
28-May-2024
13:05



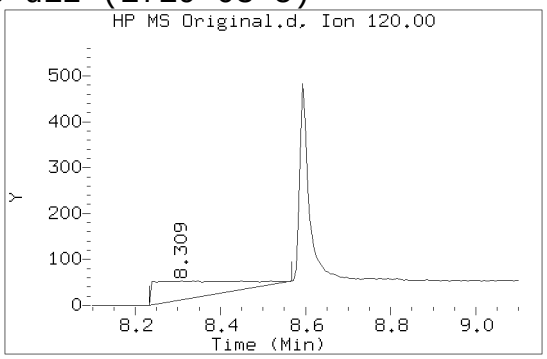
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

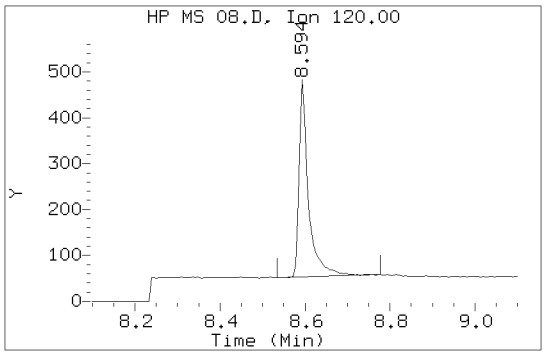
BEFORE

MASS
120
AREA
491
HEIGHT
41
18-Apr-2024
14:16
ALSHS
Server



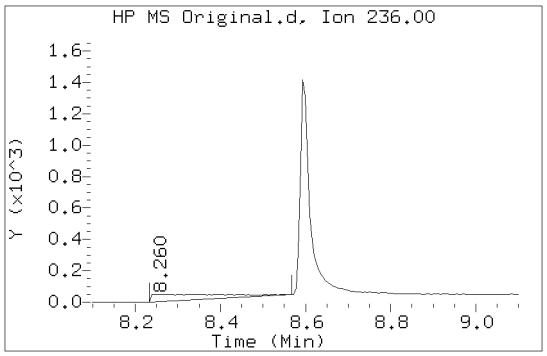
AFTER

MASS
120
AREA
640
HEIGHT
429
28-May-2024
13:05



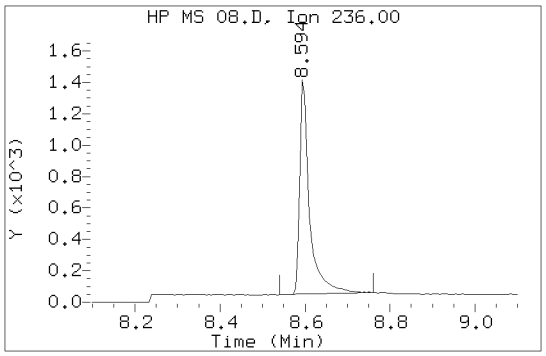
BEFORE

MASS
236
AREA
459
HEIGHT
45
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
236
AREA
2175
HEIGHT
1364
28-May-2024
13:05

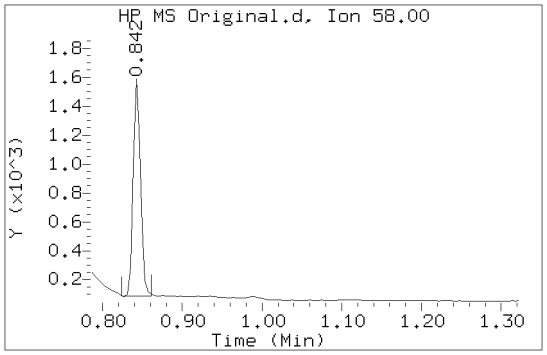


1,4-Dioxane ()

Reason Code:

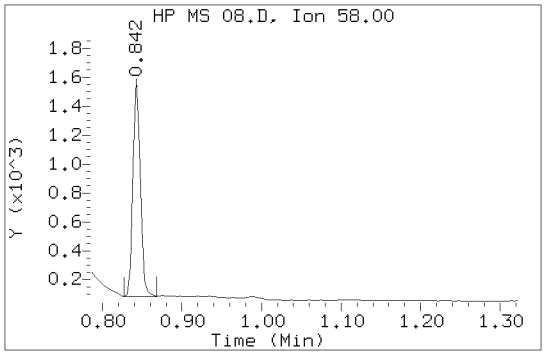
BEFORE

MASS
58
AREA
972
HEIGHT
1502
18-Apr-2024
14:16
ALSHS
Server



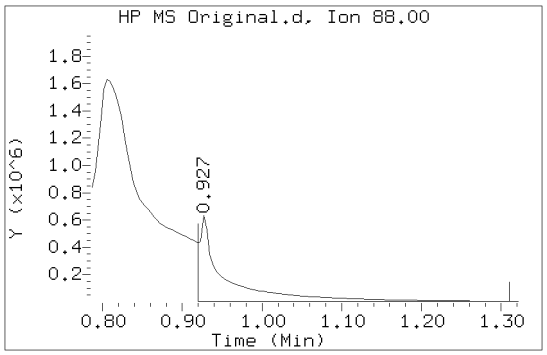
AFTER

MASS
58
AREA
984
HEIGHT
1506
28-May-2024
13:05



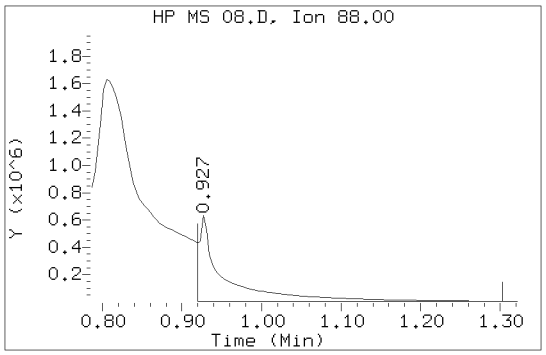
BEFORE

MASS
88
AREA
1391687
HEIGHT
630804
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
88
AREA
1385982
HEIGHT
630559
28-May-2024
13:05



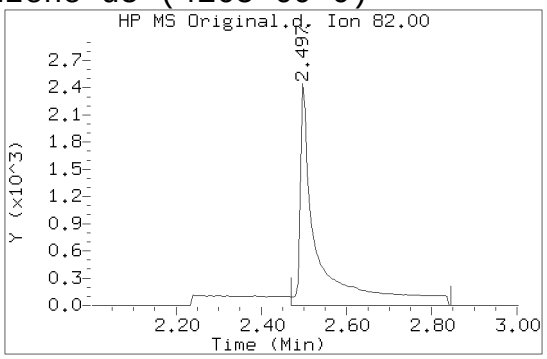
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Nitrobenzene-d5 (4165-60-0)

Reason Code:

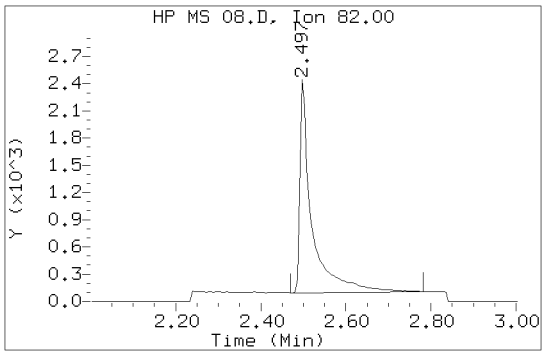
BEFORE

MASS
82
AREA
6726
HEIGHT
2444
18-Apr-2024
14:16
ALSHS
Server



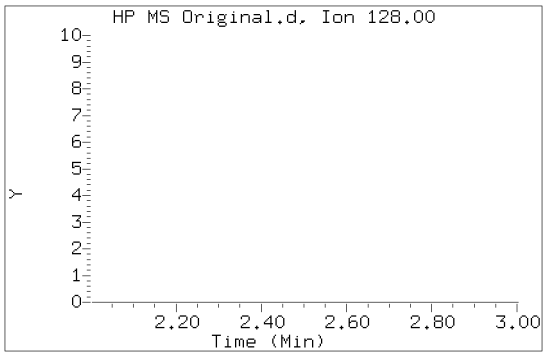
AFTER

MASS
82
AREA
4499
HEIGHT
2348
28-May-2024
13:05



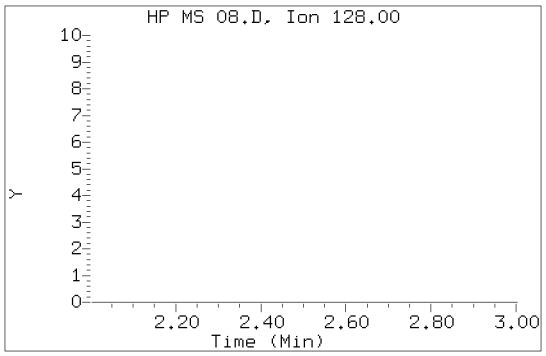
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



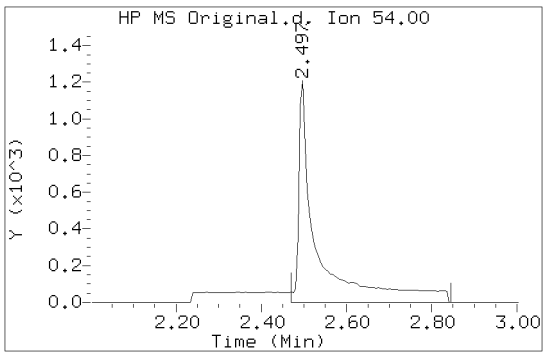
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



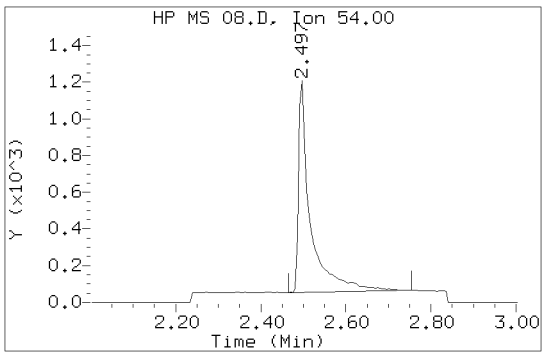
BEFORE

MASS
54
AREA
3552
HEIGHT
1208
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
54
AREA
2217
HEIGHT
1153
28-May-2024
13:05

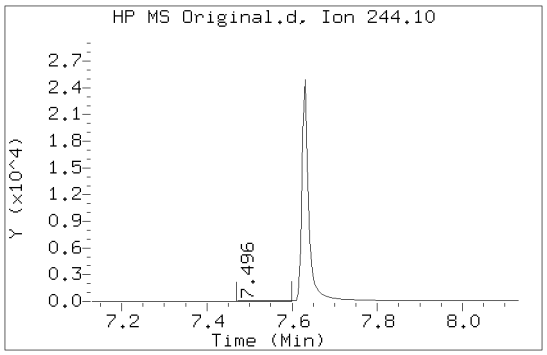


4-Terphenyl-d14 (1718-51-0)

Reason Code:

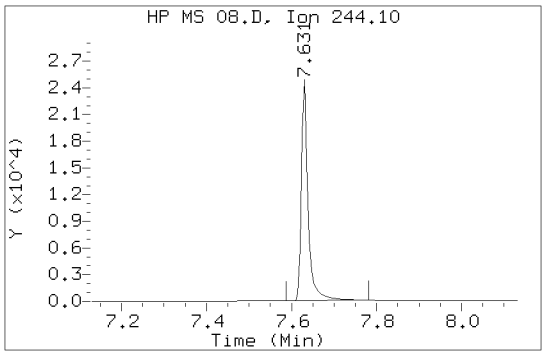
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
244.1
AREA
27519
HEIGHT
24848
28-May-2024
13:05



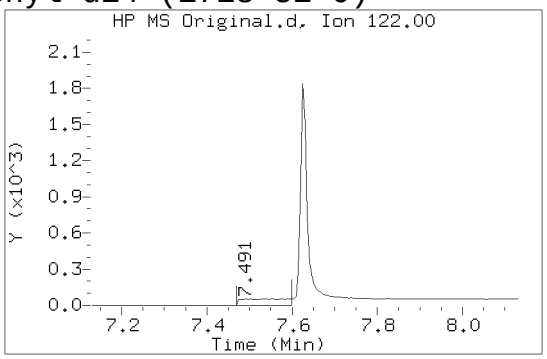
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

4-Terphenyl-d14 (1718-51-0)

Reason Code:

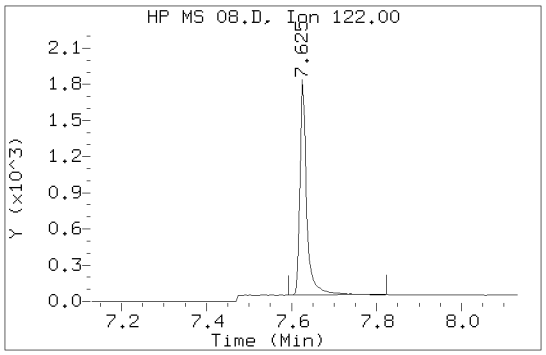
BEFORE

MASS
122
AREA
391
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



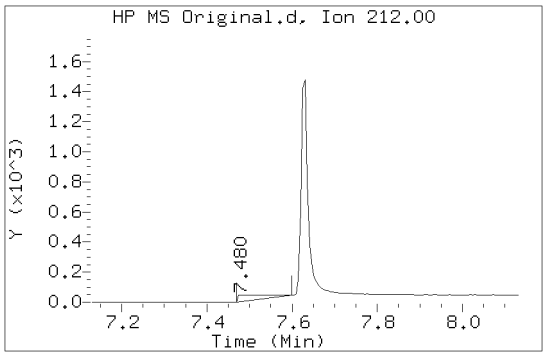
AFTER

MASS
122
AREA
2002
HEIGHT
1786
28-May-2024
13:05



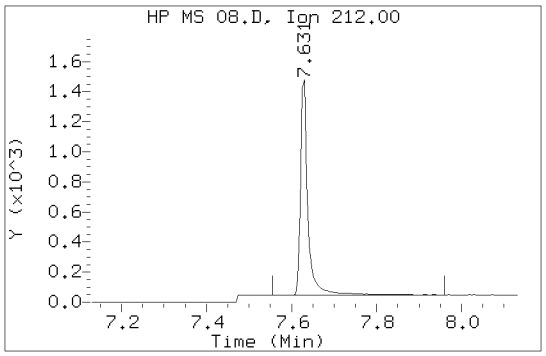
BEFORE

MASS
212
AREA
175
HEIGHT
44
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
212
AREA
1733
HEIGHT
1429
28-May-2024
13:05

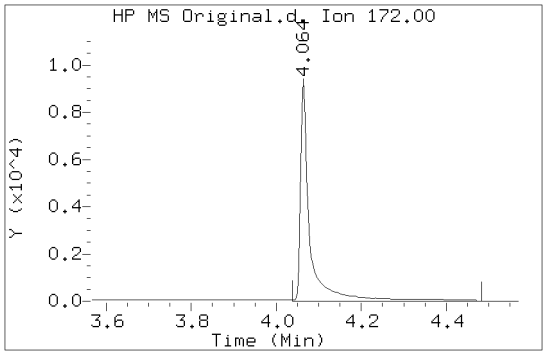


2-Fluorobiphenyl (321-60-8)

Reason Code:

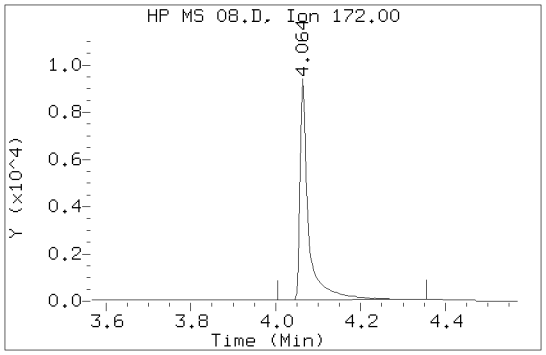
BEFORE

MASS
172
AREA
14843
HEIGHT
9413
18-Apr-2024
14:16
ALSHS
Server



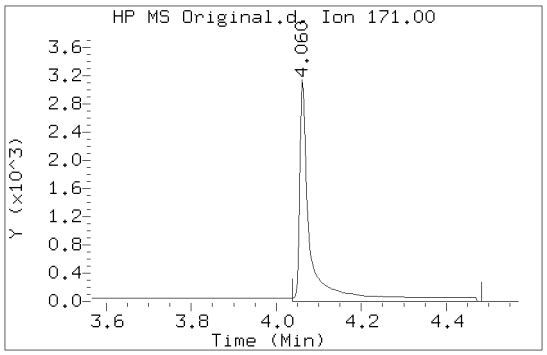
AFTER

MASS
172
AREA
13067
HEIGHT
9360
28-May-2024
13:05



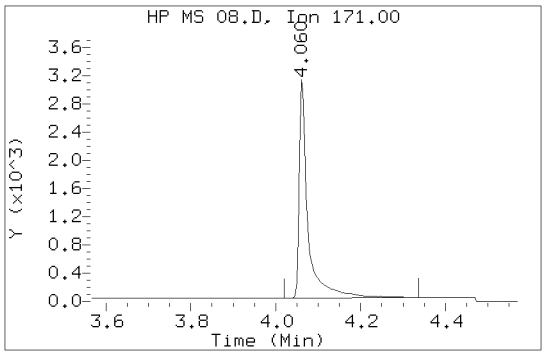
BEFORE

MASS
171
AREA
5828
HEIGHT
3145
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
171
AREA
4411
HEIGHT
3096
28-May-2024
13:05



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Lab Smp Id: 14DX-0.20
Inj Date : 18-APR-2024 14:18
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:18 Cal File: 09.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2896	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9147	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	5927	0.20000	0.2158(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5593	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	17331	0.20000	0.2027(AM)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10775	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9063	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	39718	0.20000	0.2151(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8962	0.10000	(M)
1 1,4-Dioxane	58	0.845	0.820	(0.404)	1268	0.20000	0.2044(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D

Date : 18-APR-2024 14:18

Client ID:

Instrument: SV6.i

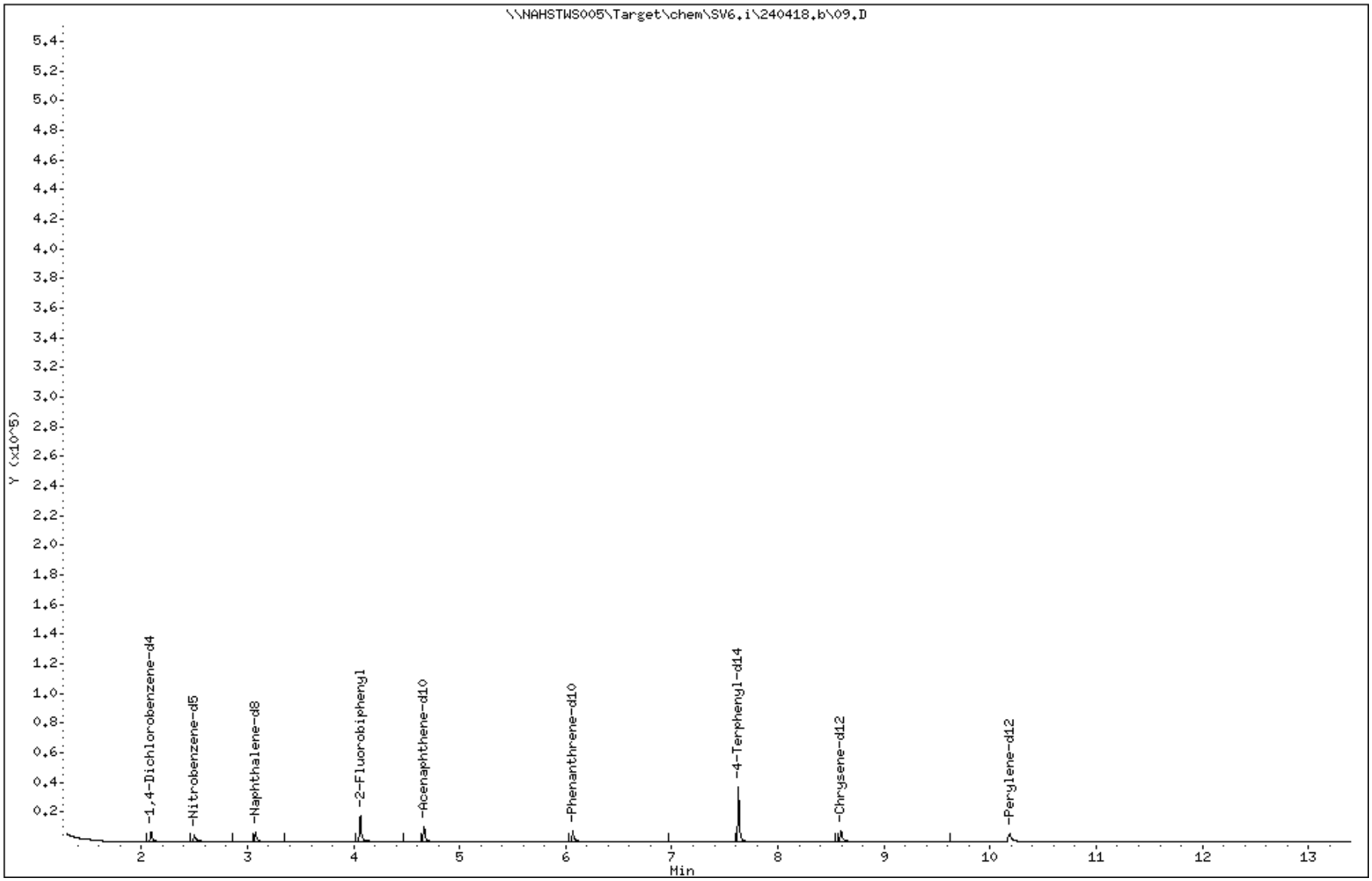
Sample Info: 14DX-0.20

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

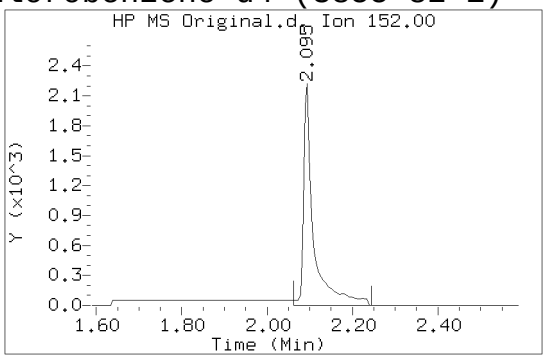


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

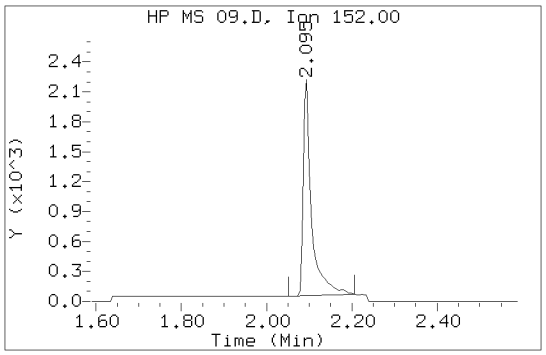
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

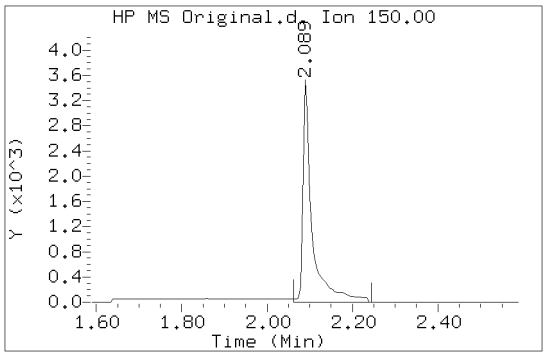
BEFORE
MASS
152
AREA
3565
HEIGHT
2222
18-Apr-2024
14:31
ALSHS
Server



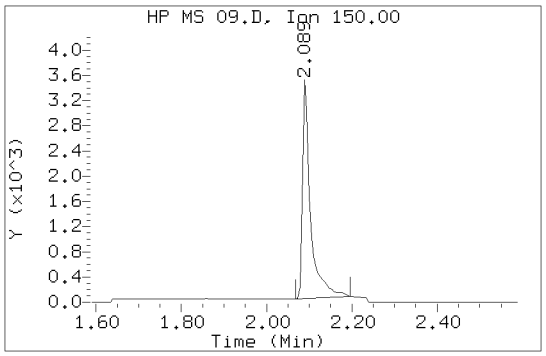
AFTER
MASS
152
AREA
2896
HEIGHT
2165
23-May-2024
08:54



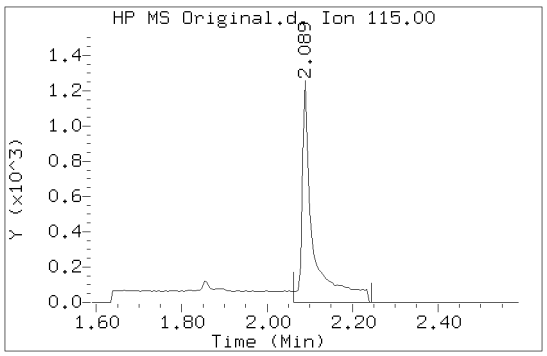
BEFORE
MASS
150
AREA
5268
HEIGHT
3527
18-Apr-2024
14:31
ALSHS
Server



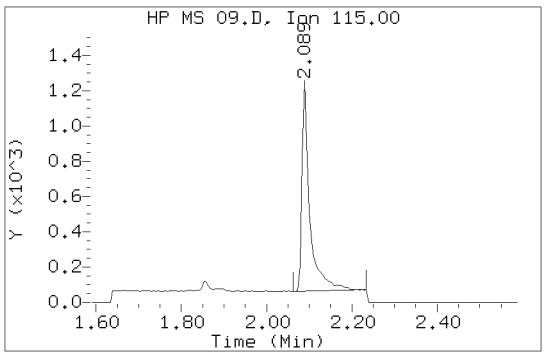
AFTER
MASS
150
AREA
4498
HEIGHT
3469
23-May-2024
08:54



BEFORE
MASS
115
AREA
2227
HEIGHT
1257
18-Apr-2024
14:31
ALSHS
Server



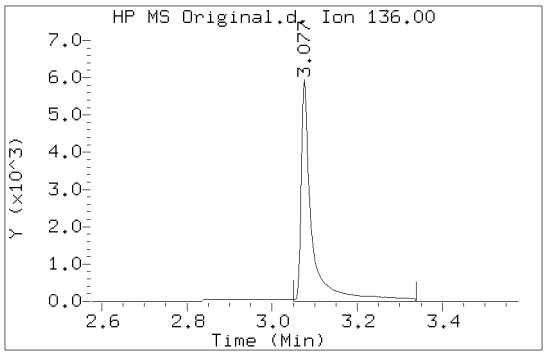
AFTER
MASS
115
AREA
1525
HEIGHT
1194
23-May-2024
08:54



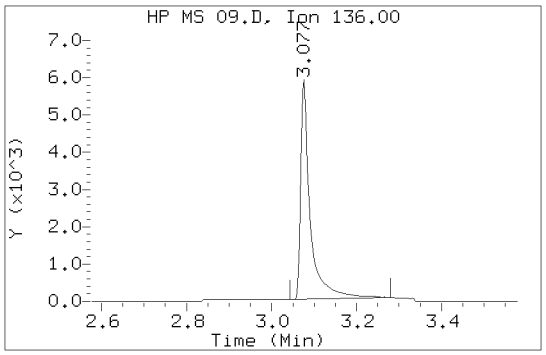
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10466
HEIGHT
5947
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
136
AREA
9147
HEIGHT
5889
23-May-2024
08:54



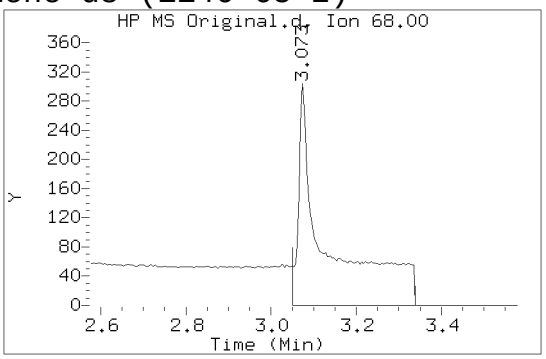
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Naphthalene-d8 (1146-65-2)

Reason Code:

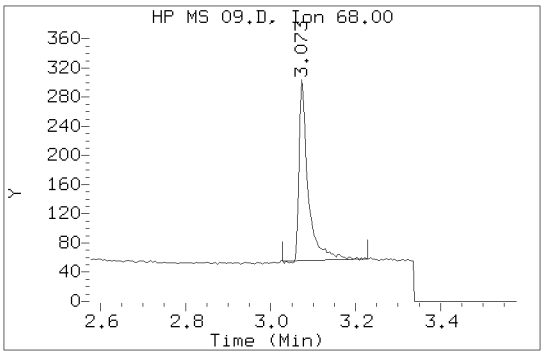
BEFORE

MASS
68
AREA
1344
HEIGHT
304
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
68
AREA
362
HEIGHT
248
23-May-2024
08:54

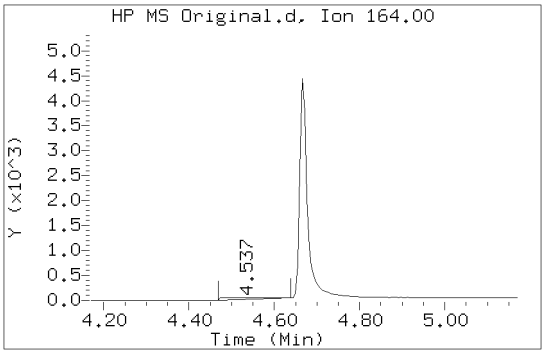


Acenaphthene-d10 (15067-26-2)

Reason Code:

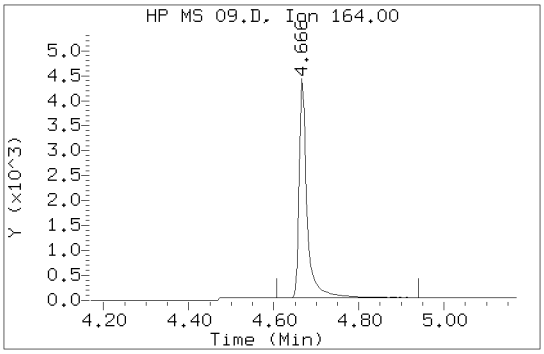
BEFORE

MASS
164
AREA
238
HEIGHT
29
18-Apr-2024
14:31
ALSHS
Server



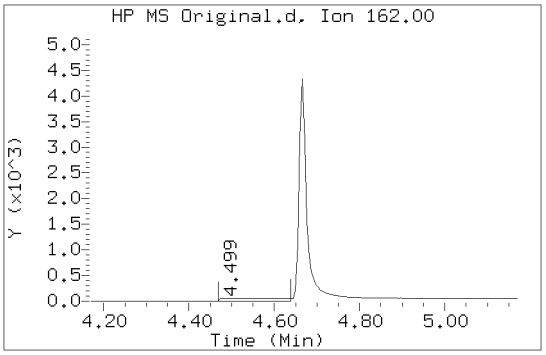
AFTER

MASS
164
AREA
5593
HEIGHT
4390
23-May-2024
08:54



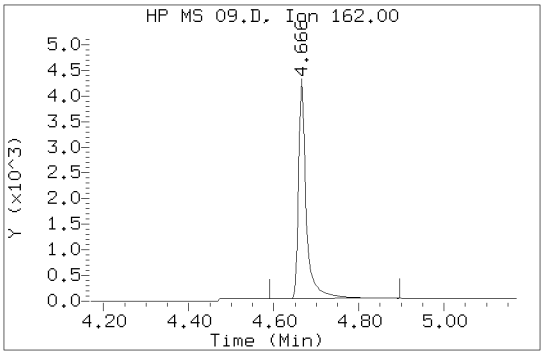
BEFORE

MASS
162
AREA
503
HEIGHT
51
18-Apr-2024
14:31
ALSHS
Server



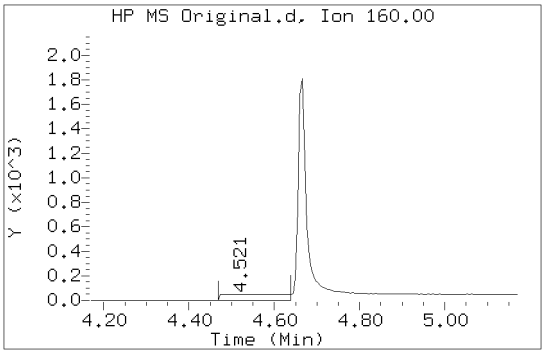
AFTER

MASS
162
AREA
5314
HEIGHT
4281
23-May-2024
08:54



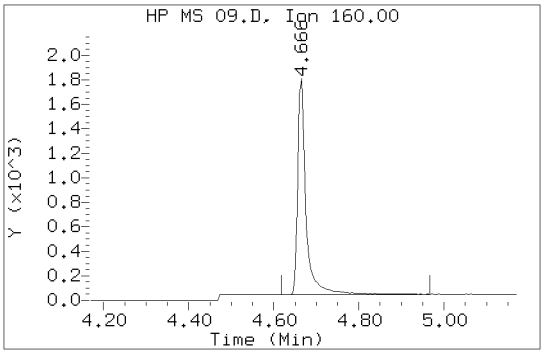
BEFORE

MASS
160
AREA
485
HEIGHT
49
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
160
AREA
2365
HEIGHT
1761
23-May-2024
08:54



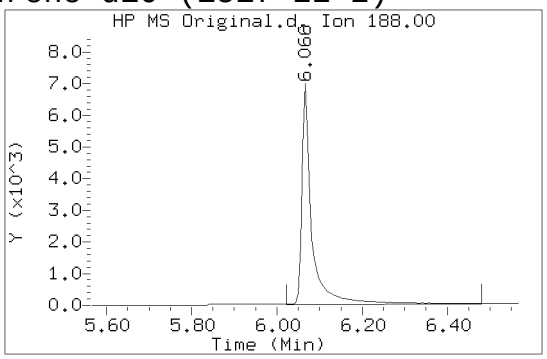
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Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Phenanthrene-d10 (1517-22-2)

Reason Code:

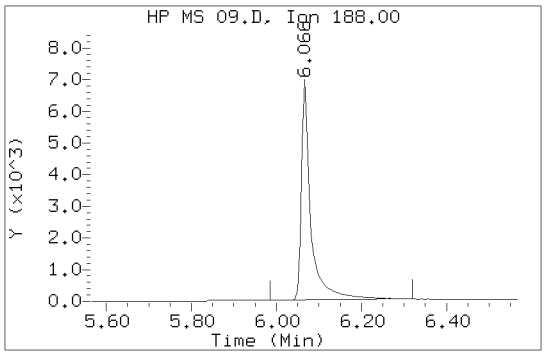
BEFORE

MASS
188
AREA
11617
HEIGHT
6980
18-Apr-2024
14:31
ALSHS
Server



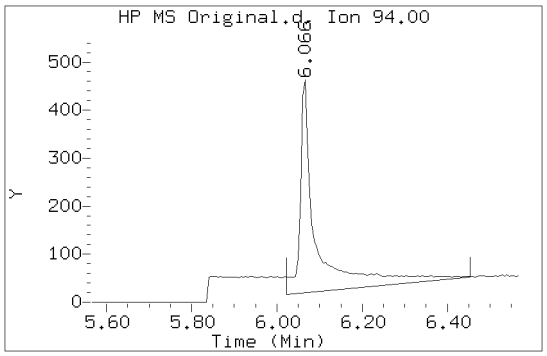
AFTER

MASS
188
AREA
10775
HEIGHT
6945
23-May-2024
08:54



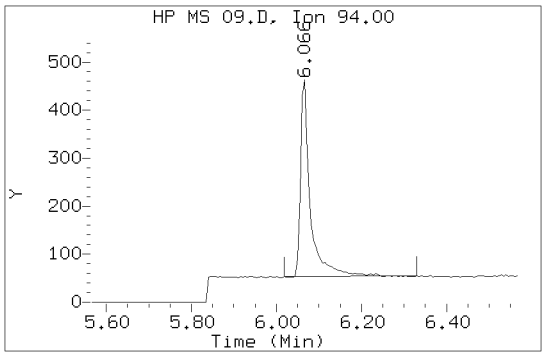
BEFORE

MASS
94
AREA
1175
HEIGHT
443
18-Apr-2024
14:31
ALSHS
Server



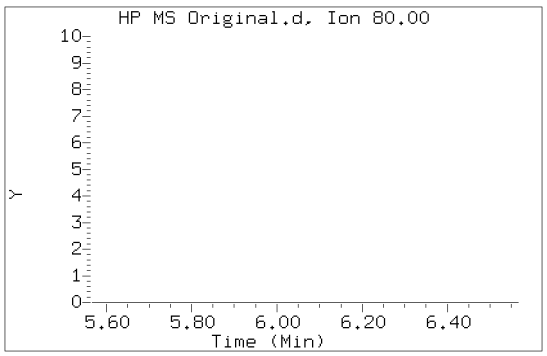
AFTER

MASS
94
AREA
655
HEIGHT
409
23-May-2024
08:54



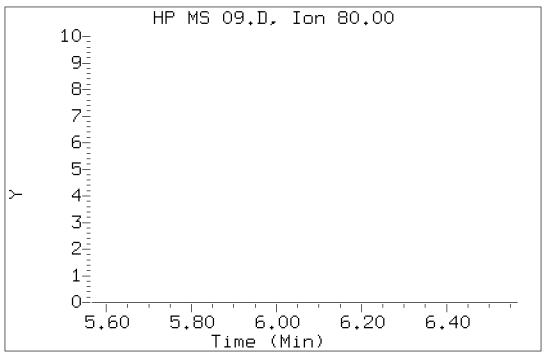
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

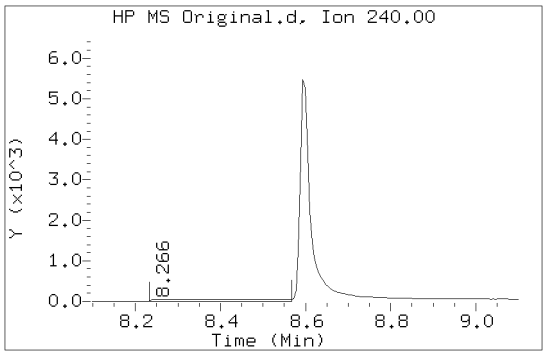


Chrysene-d12 (1719-03-5)

Reason Code:

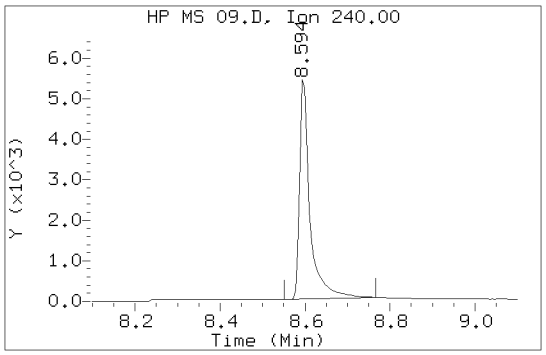
BEFORE

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
240
AREA
9063
HEIGHT
5411
23-May-2024
08:54

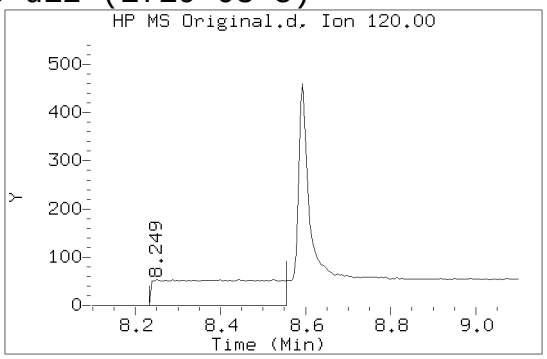


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

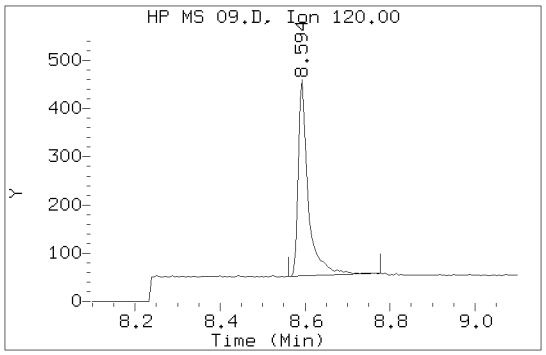
Chrysene-d12 (1719-03-5)

Reason Code:

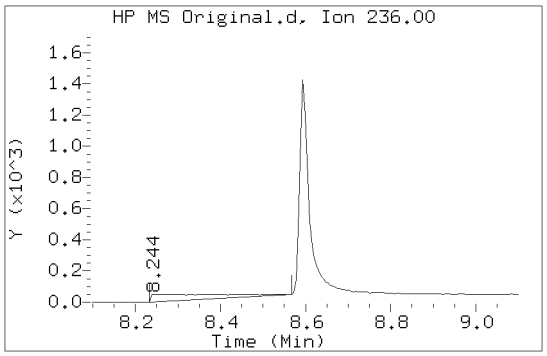
BEFORE
MASS
120
AREA
1000
HEIGHT
53
18-Apr-2024
14:31
ALSHS
Server



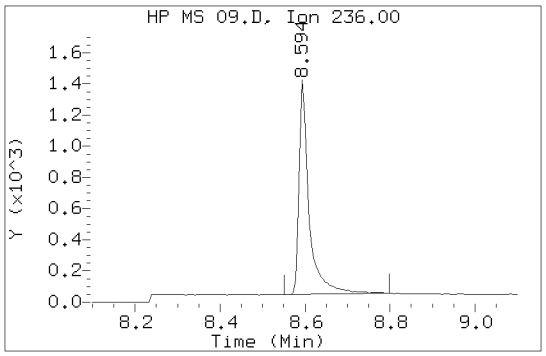
AFTER
MASS
120
AREA
651
HEIGHT
406
23-May-2024
08:54



BEFORE
MASS
236
AREA
466
HEIGHT
47
18-Apr-2024
14:31
ALSHS
Server



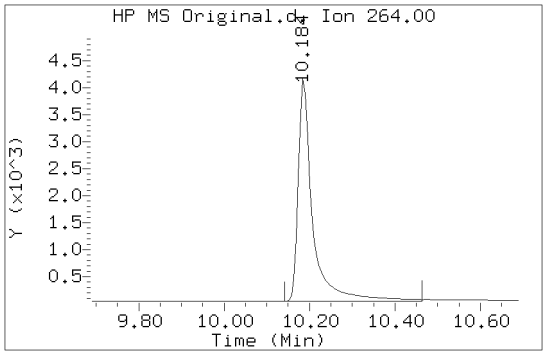
AFTER
MASS
236
AREA
2242
HEIGHT
1376
23-May-2024
08:54



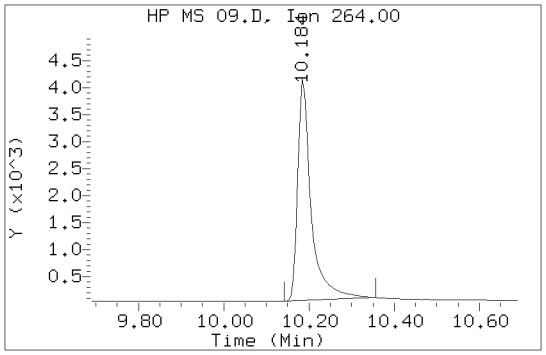
Perylene-d12 (1520-96-3)

Reason Code:

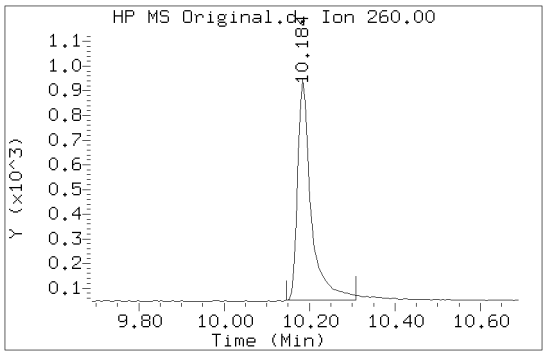
BEFORE
MASS
264
AREA
9658
HEIGHT
4112
18-Apr-2024
14:31
ALSHS
Server



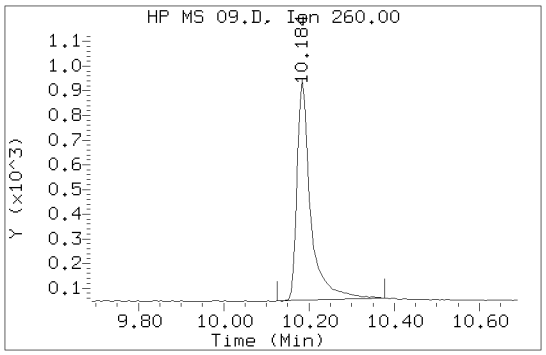
AFTER
MASS
264
AREA
8962
HEIGHT
4099
23-May-2024
08:54



BEFORE
MASS
260
AREA
1972
HEIGHT
894
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
260
AREA
1963
HEIGHT
893
23-May-2024
08:54



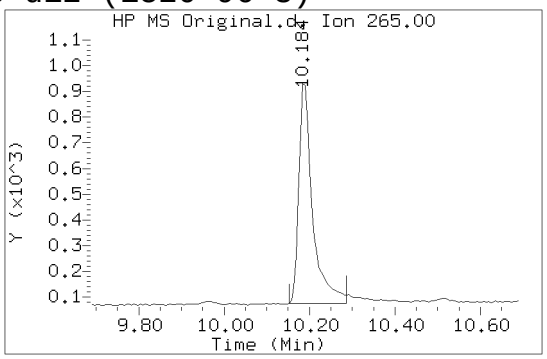
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Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Perylene-d12 (1520-96-3)

Reason Code:

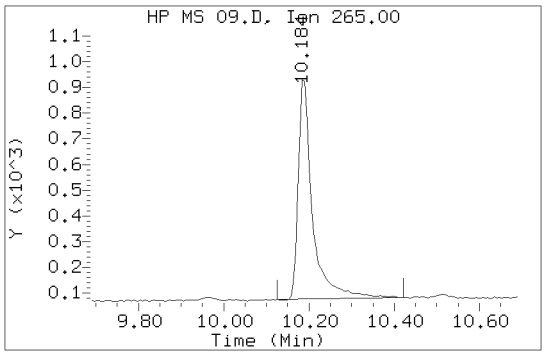
BEFORE

MASS
265
AREA
1909
HEIGHT
854
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
265
AREA
1984
HEIGHT
853
23-May-2024
08:54

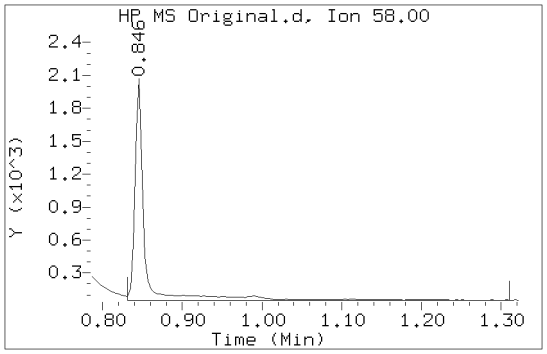


1,4-Dioxane ()

Reason Code:

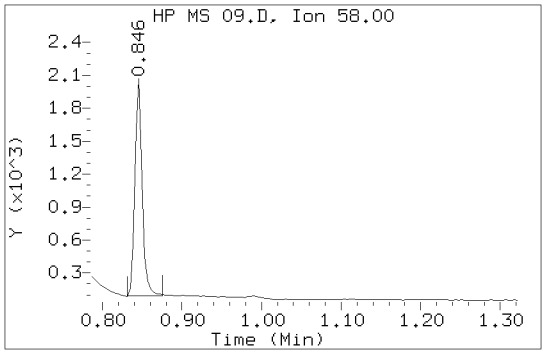
BEFORE

MASS
58
AREA
1746
HEIGHT
2018
18-Apr-2024
14:31
ALSHS
Server



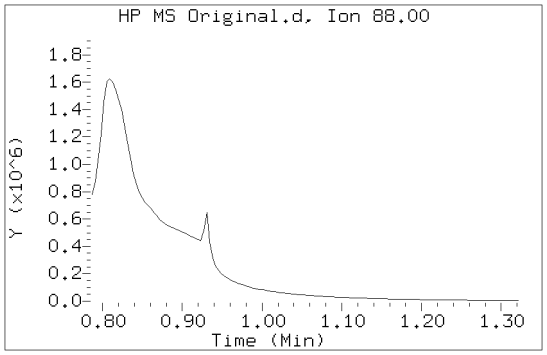
AFTER

MASS
58
AREA
1268
HEIGHT
1979
23-May-2024
08:54



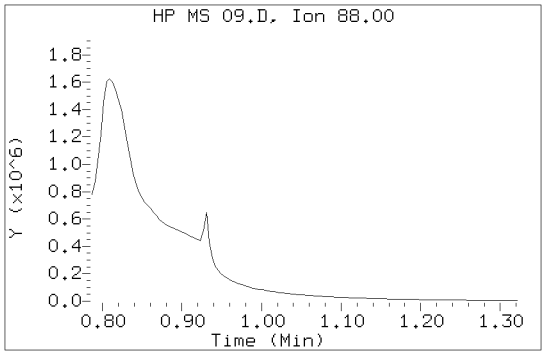
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
08:54

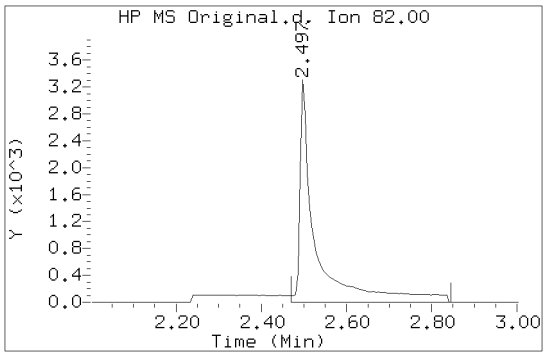


Nitrobenzene-d5 (4165-60-0)

Reason Code:

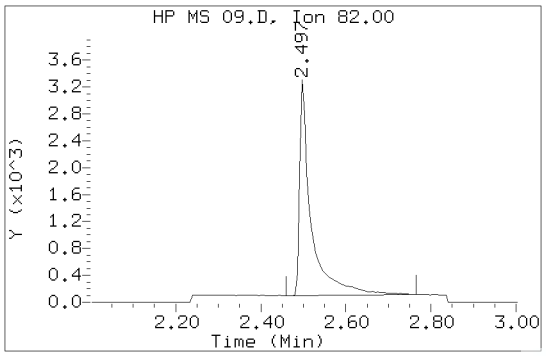
BEFORE

MASS
82
AREA
8325
HEIGHT
3305
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
82
AREA
5927
HEIGHT
3202
23-May-2024
08:54

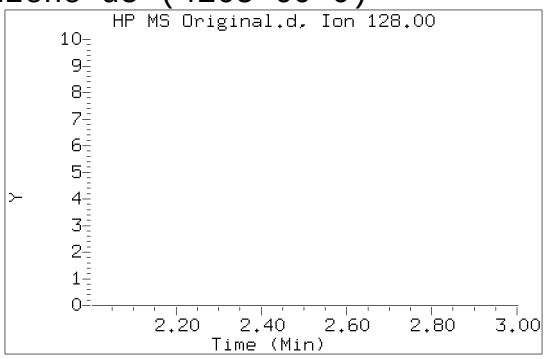


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Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

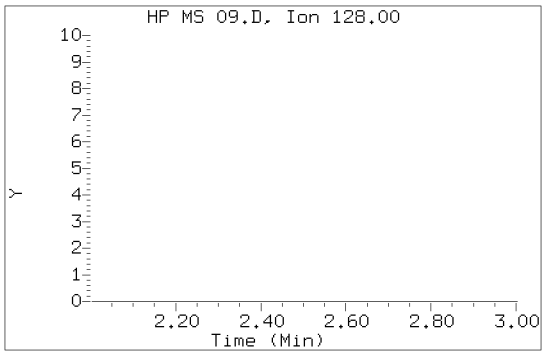
Nitrobenzene-d5 (4165-60-0)

Reason Code:

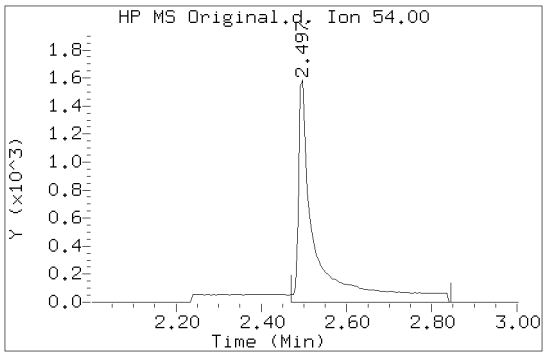
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



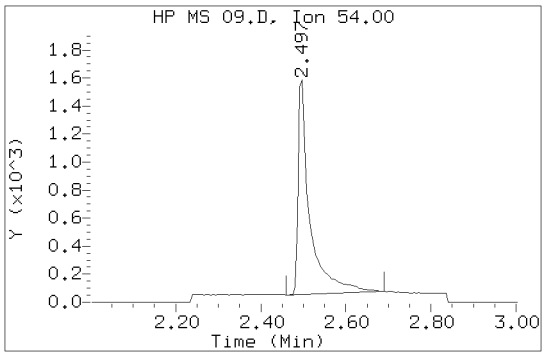
AFTER
MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



BEFORE
MASS
54
AREA
4354
HEIGHT
1586
18-Apr-2024
14:31
ALSHS
Server



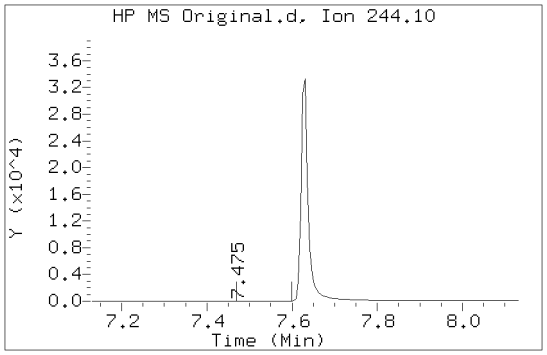
AFTER
MASS
54
AREA
2914
HEIGHT
1530
23-May-2024
08:54



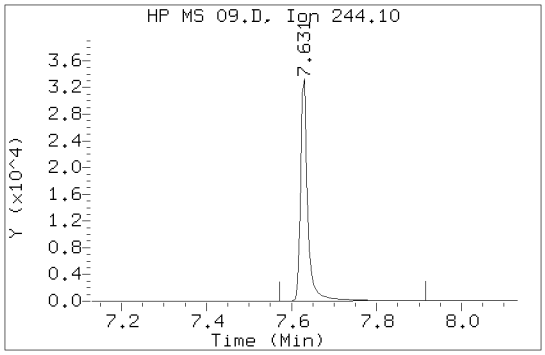
4-Terphenyl-d14 (1718-51-0)

Reason Code:

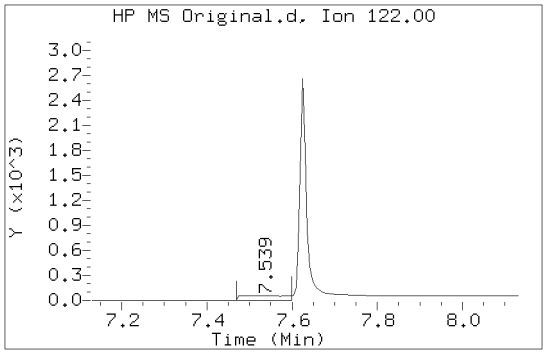
BEFORE
MASS
244.1
AREA
171
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



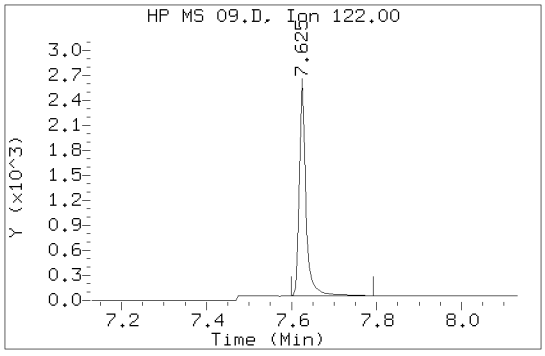
AFTER
MASS
244.1
AREA
39718
HEIGHT
33227
23-May-2024
08:54



BEFORE
MASS
122
AREA
392
HEIGHT
52
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
122
AREA
2843
HEIGHT
2606
23-May-2024
08:54



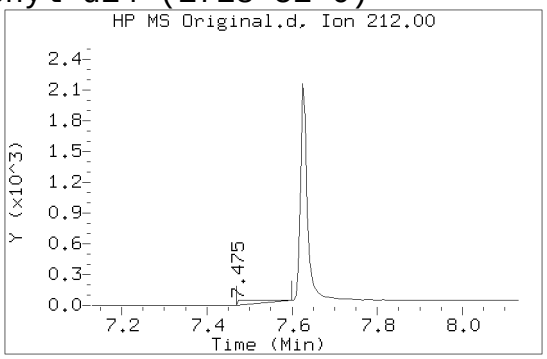
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

4-Terphenyl-d14 (1718-51-0)

Reason Code:

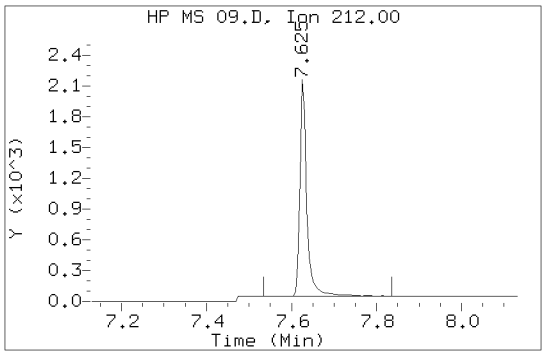
BEFORE

MASS
212
AREA
176
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
212
AREA
2426
HEIGHT
2111
23-May-2024
08:54

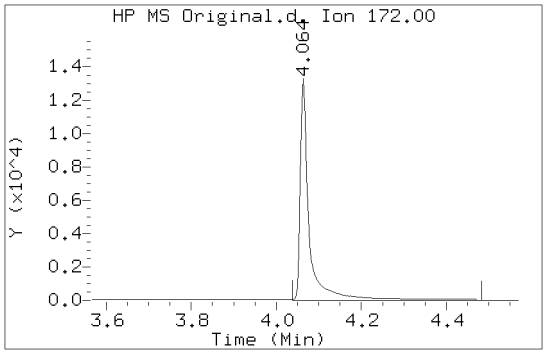


2-Fluorobiphenyl (321-60-8)

Reason Code:

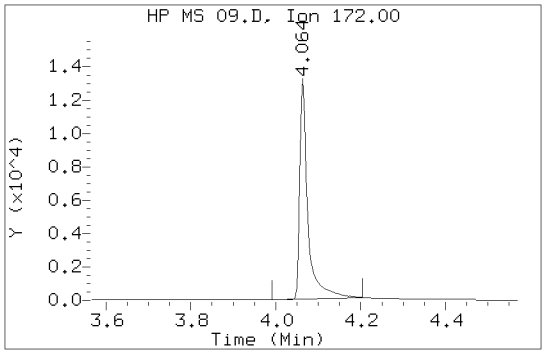
BEFORE

MASS
172
AREA
20172
HEIGHT
13283
18-Apr-2024
14:31
ALSHS
Server



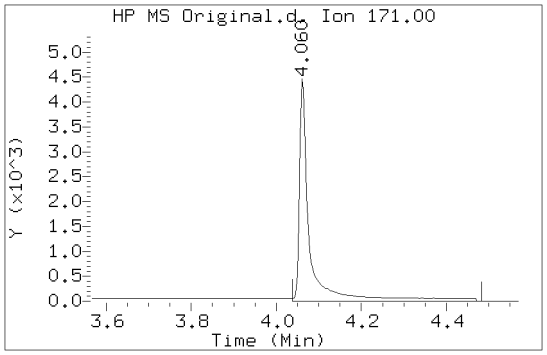
AFTER

MASS
172
AREA
17331
HEIGHT
13194
23-May-2024
08:54



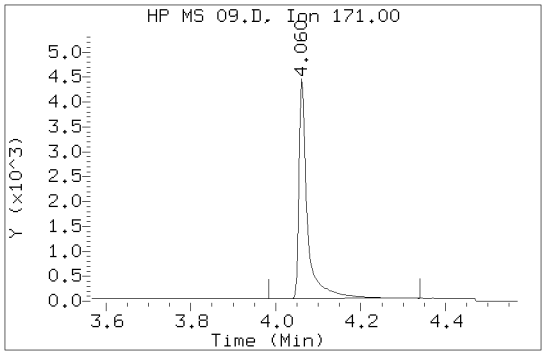
BEFORE

MASS
171
AREA
7647
HEIGHT
4464
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
171
AREA
6174
HEIGHT
4414
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Lab Smp Id: 14DX-0.50
Inj Date : 18-APR-2024 14:35
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

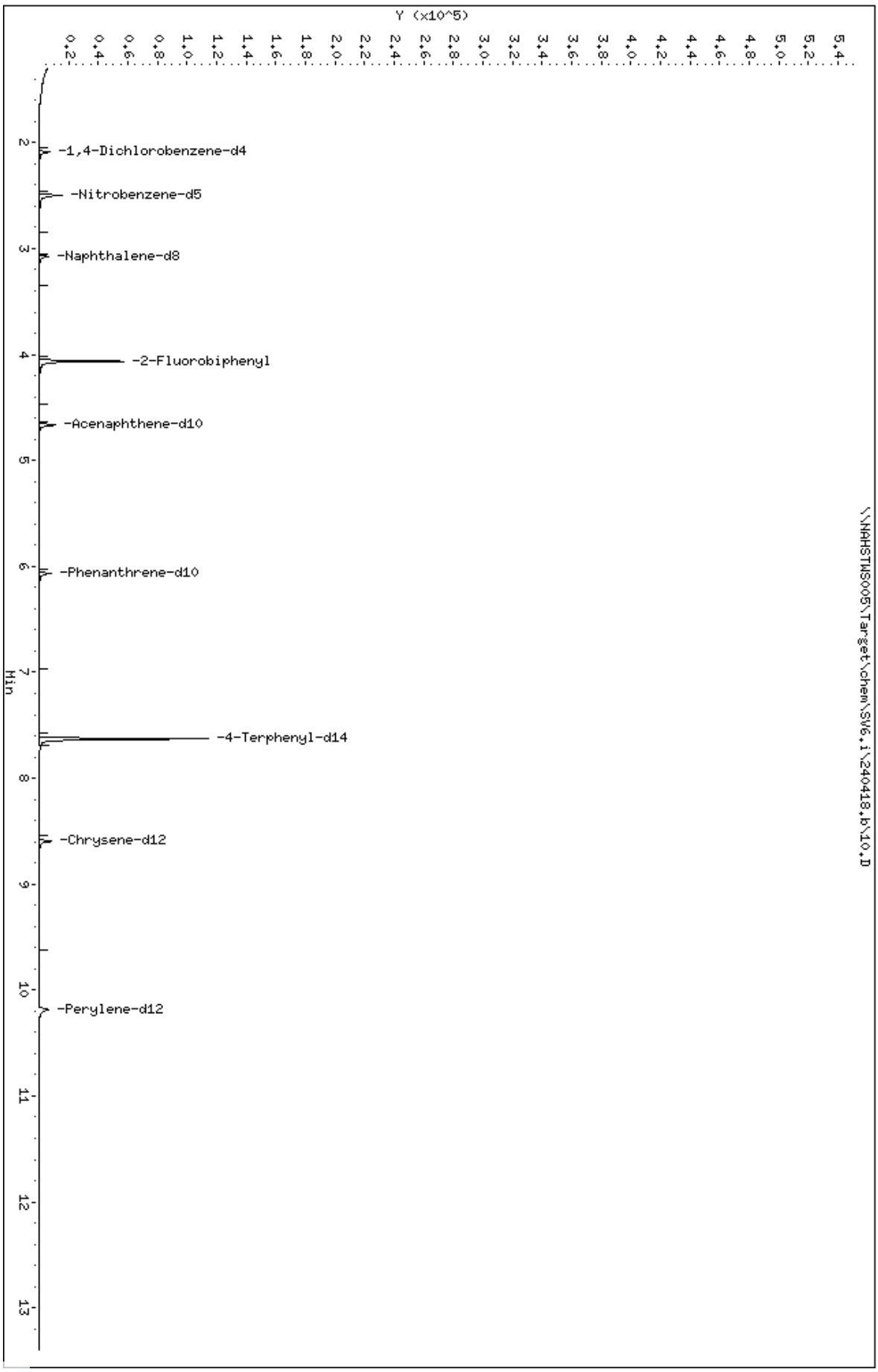
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2819	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9772	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	15956	0.50000	0.5439(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5911	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	47534	0.50000	0.5260(AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	11325	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9856	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	111493	0.50000	0.5553(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	10138	0.10000	
1 1,4-Dioxane	58	0.831	0.820	(0.398)	2813	0.50000	0.4659(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Date : 18-APR-2024 14:35
Client ID:
Sample Info: 14DX-0.50
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

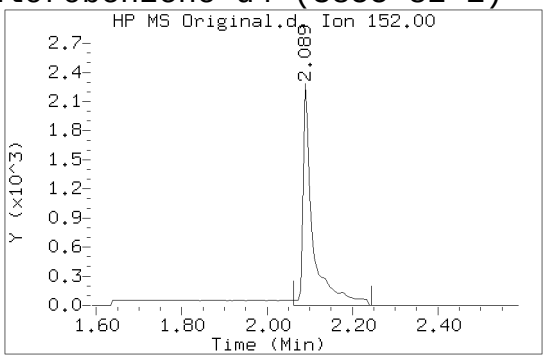
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

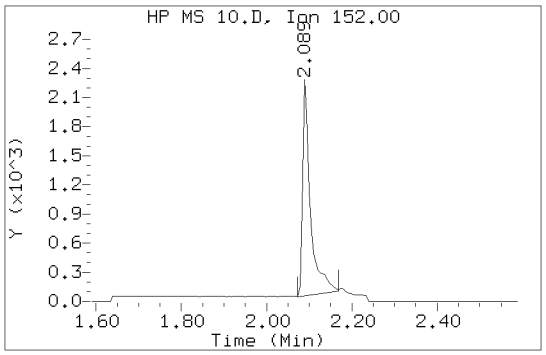
BEFORE

MASS
152
AREA
3637
HEIGHT
2284
18-Apr-2024
14:51
ALSHS
Server



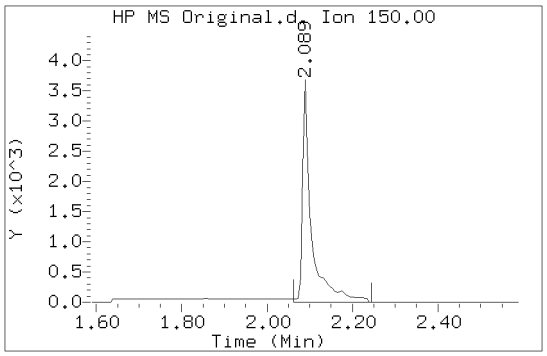
AFTER

MASS
152
AREA
2819
HEIGHT
2227
28-May-2024
13:05



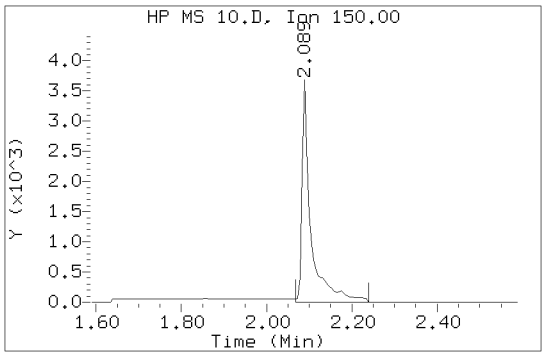
BEFORE

MASS
150
AREA
5370
HEIGHT
3682
18-Apr-2024
14:51
ALSHS
Server



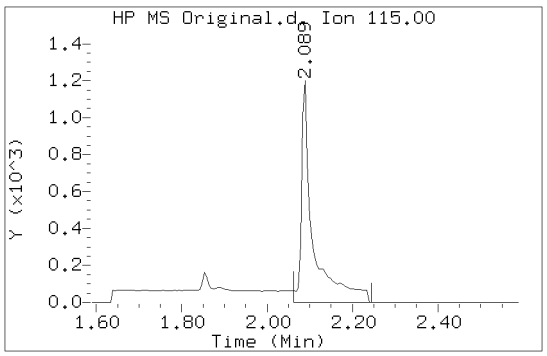
AFTER

MASS
150
AREA
5355
HEIGHT
3682
28-May-2024
13:05



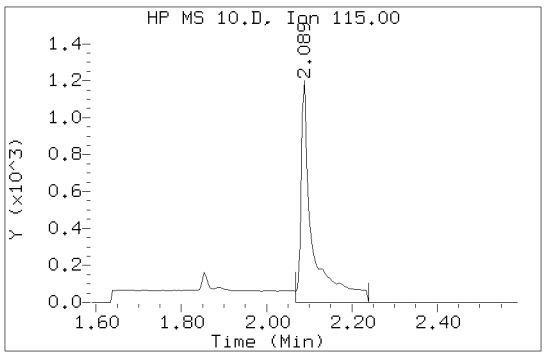
BEFORE

MASS
115
AREA
2255
HEIGHT
1200
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
115
AREA
2236
HEIGHT
1200
28-May-2024
13:05

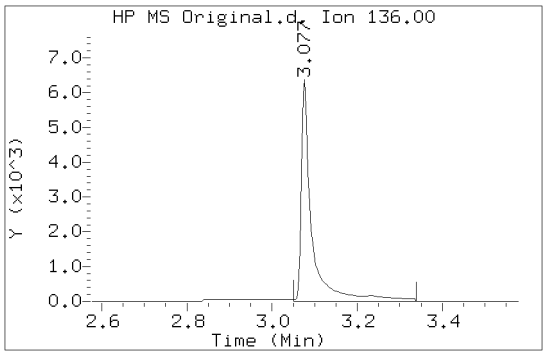


Naphthalene-d8 (1146-65-2)

Reason Code:

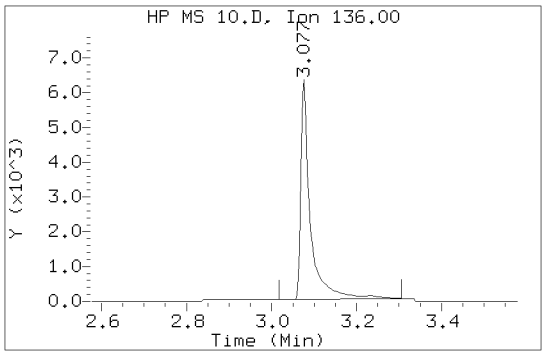
BEFORE

MASS
136
AREA
10944
HEIGHT
6372
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
136
AREA
9772
HEIGHT
6315
28-May-2024
13:05



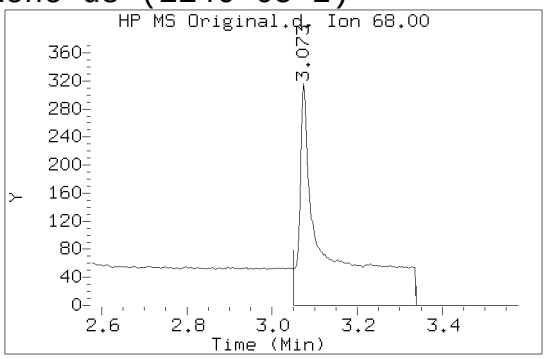
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Naphthalene-d8 (1146-65-2)

Reason Code:

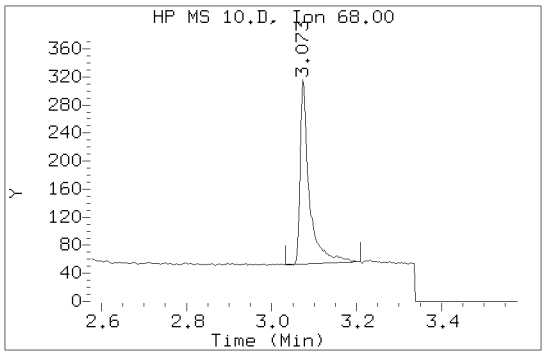
BEFORE

MASS
68
AREA
1337
HEIGHT
316
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
68
AREA
385
HEIGHT
262
28-May-2024
13:05

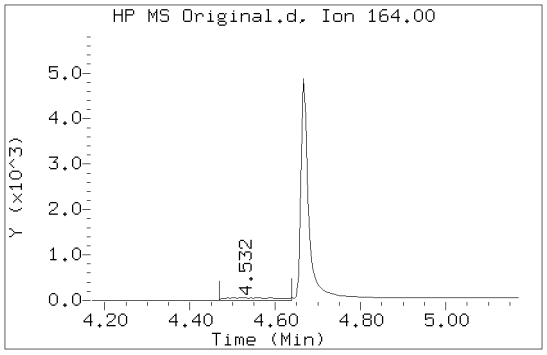


Acenaphthene-d10 (15067-26-2)

Reason Code:

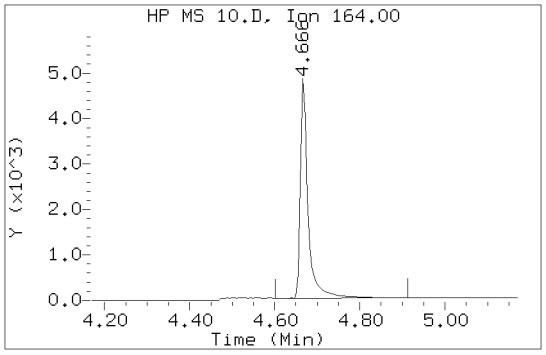
BEFORE

MASS
164
AREA
504
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



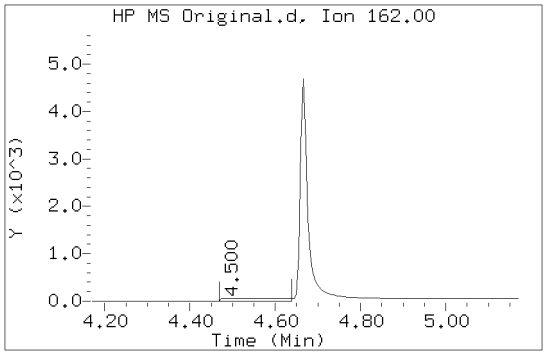
AFTER

MASS
164
AREA
5911
HEIGHT
4828
28-May-2024
13:05



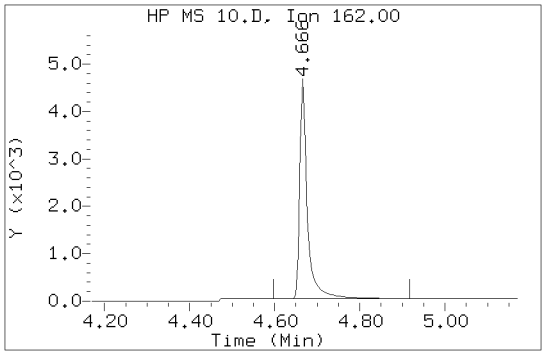
BEFORE

MASS
162
AREA
499
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



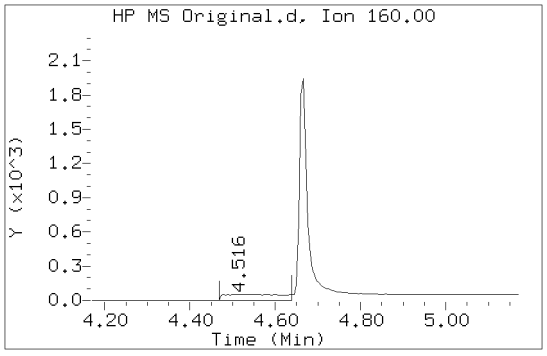
AFTER

MASS
162
AREA
5684
HEIGHT
4637
28-May-2024
13:05



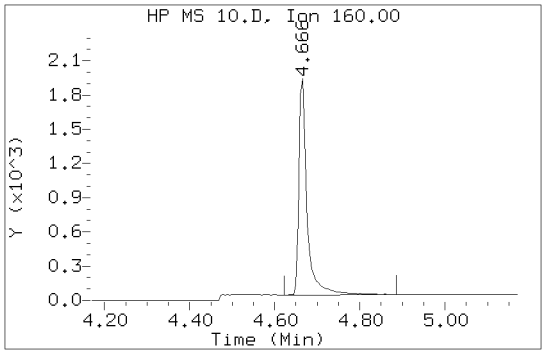
BEFORE

MASS
160
AREA
487
HEIGHT
49
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
160
AREA
2489
HEIGHT
1895
28-May-2024
13:05



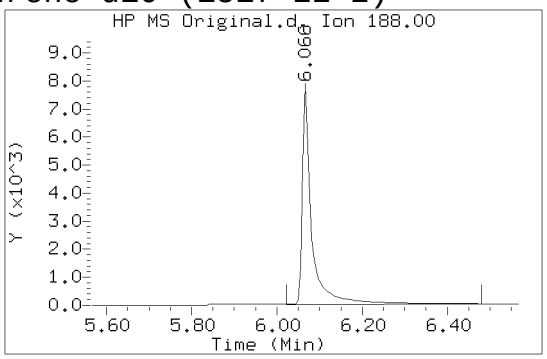
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Phenanthrene-d10 (1517-22-2)

Reason Code:

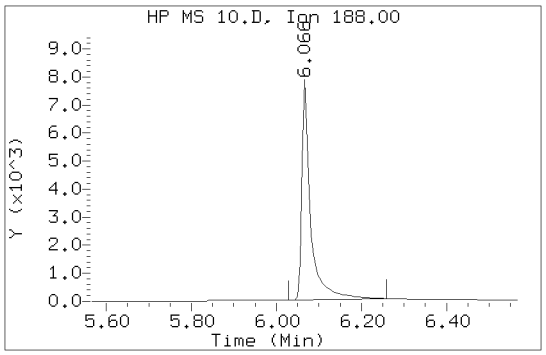
BEFORE

MASS
188
AREA
12429
HEIGHT
7885
18-Apr-2024
14:51
ALSHS
Server



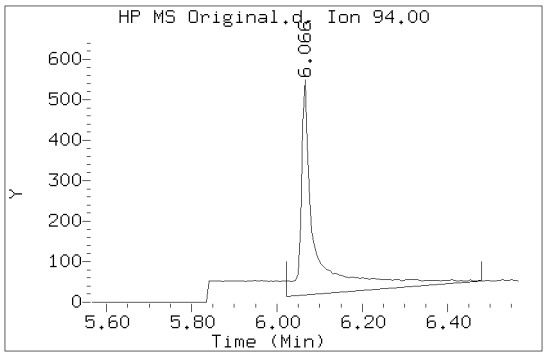
AFTER

MASS
188
AREA
11325
HEIGHT
7848
28-May-2024
13:05



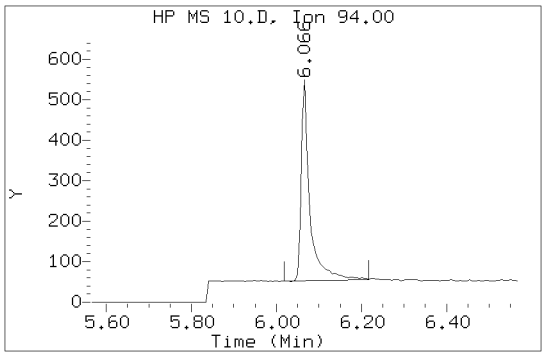
BEFORE

MASS
94
AREA
1281
HEIGHT
530
18-Apr-2024
14:51
ALSHS
Server



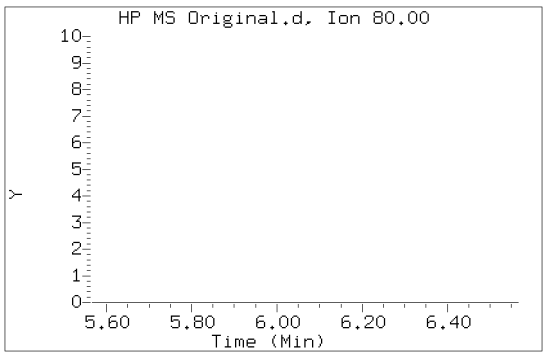
AFTER

MASS
94
AREA
704
HEIGHT
496
28-May-2024
13:05



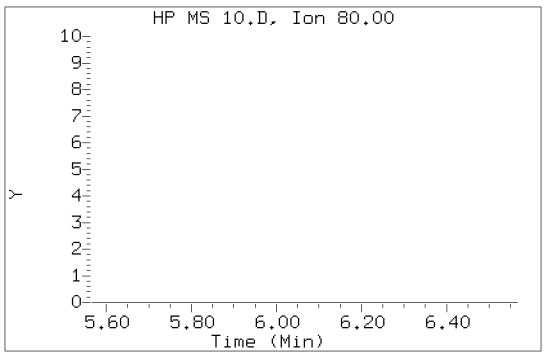
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

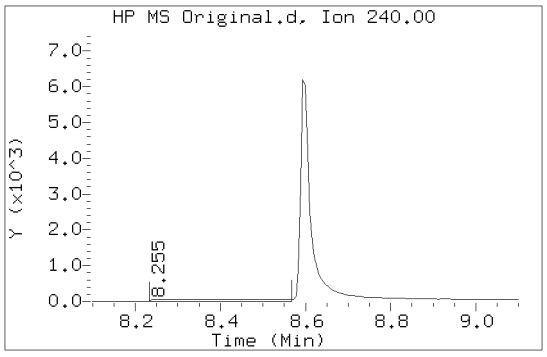


Chrysene-d12 (1719-03-5)

Reason Code:

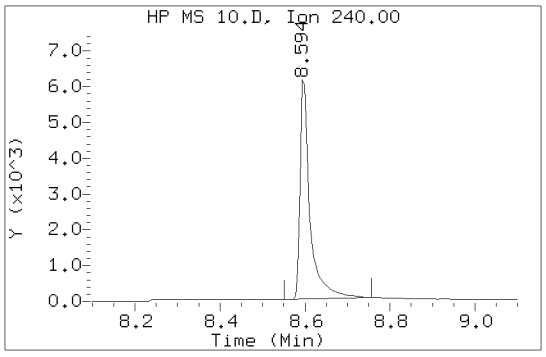
BEFORE

MASS
240
AREA
983
HEIGHT
51
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
240
AREA
9856
HEIGHT
6137
28-May-2024
13:05



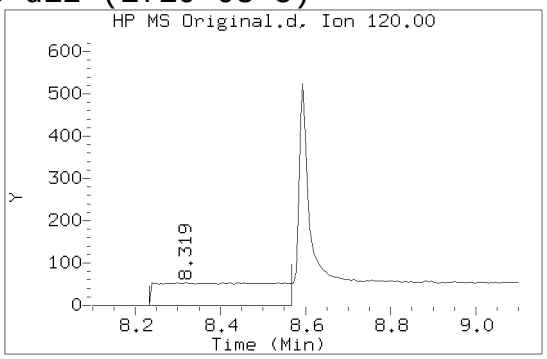
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Chrysene-d12 (1719-03-5)

Reason Code:

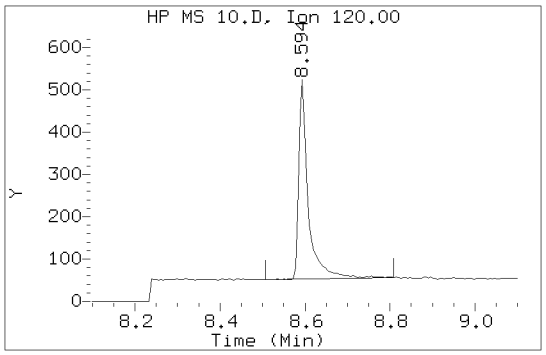
BEFORE

MASS
120
AREA
1034
HEIGHT
54
18-Apr-2024
14:51
ALSHS
Server



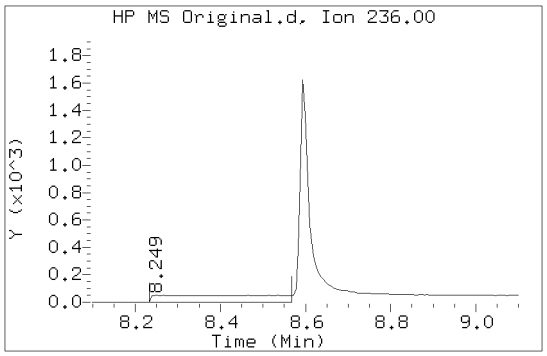
AFTER

MASS
120
AREA
718
HEIGHT
470
28-May-2024
13:05



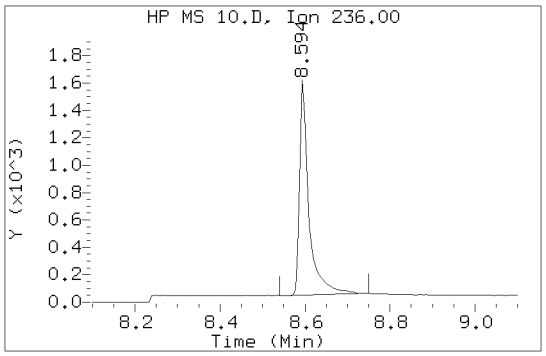
BEFORE

MASS
236
AREA
972
HEIGHT
50
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
236
AREA
2369
HEIGHT
1570
28-May-2024
13:05

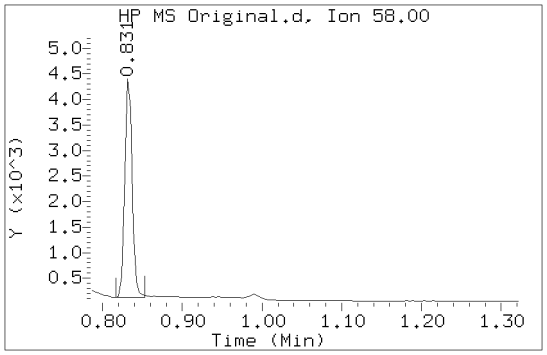


1,4-Dioxane ()

Reason Code:

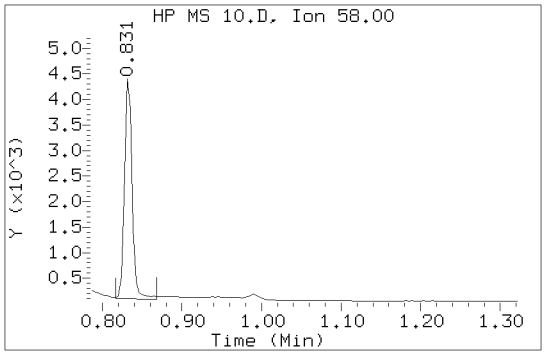
BEFORE

MASS
58
AREA
2715
HEIGHT
4282
18-Apr-2024
14:51
ALSHS
Server



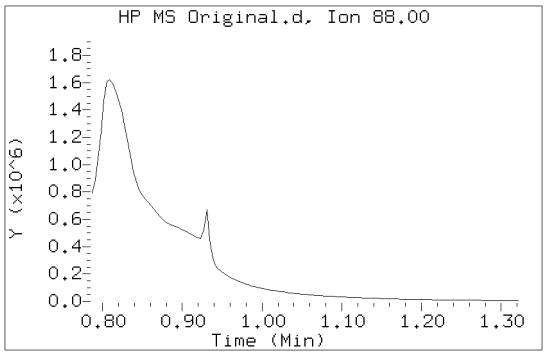
AFTER

MASS
58
AREA
2813
HEIGHT
4303
28-May-2024
13:05



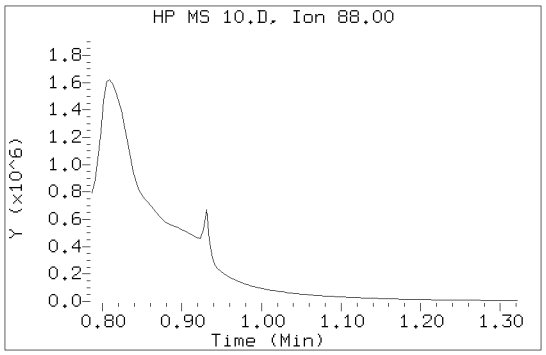
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05



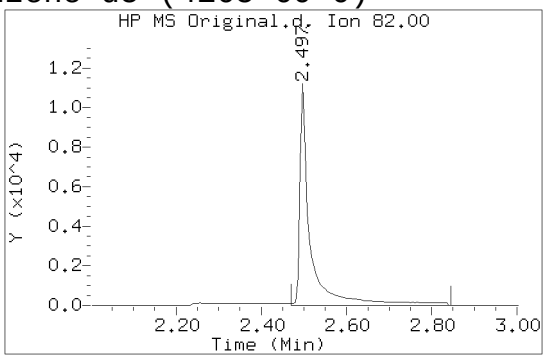
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Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Nitrobenzene-d5 (4165-60-0)

Reason Code:

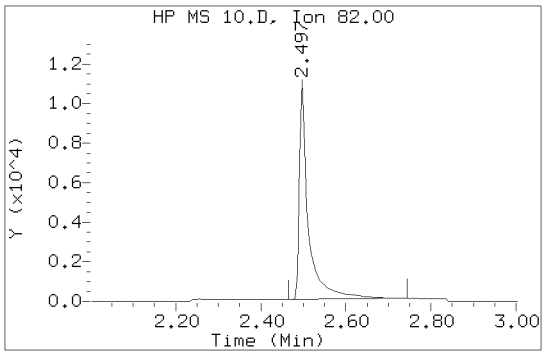
BEFORE

MASS
82
AREA
18735
HEIGHT
11209
18-Apr-2024
14:51
ALSHS
Server



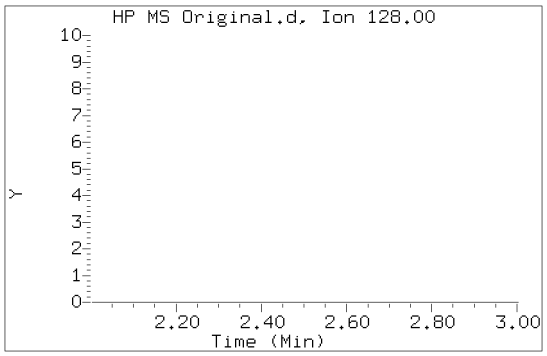
AFTER

MASS
82
AREA
15956
HEIGHT
11102
28-May-2024
13:05



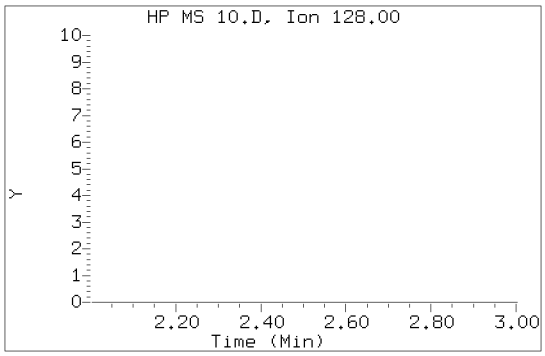
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



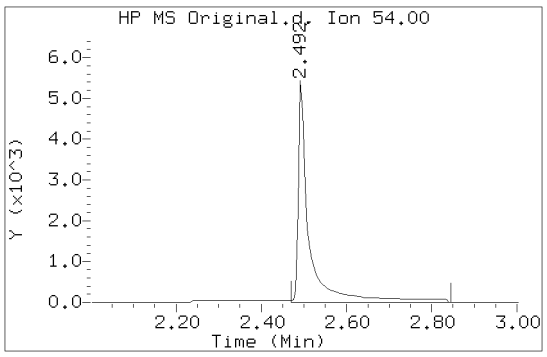
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



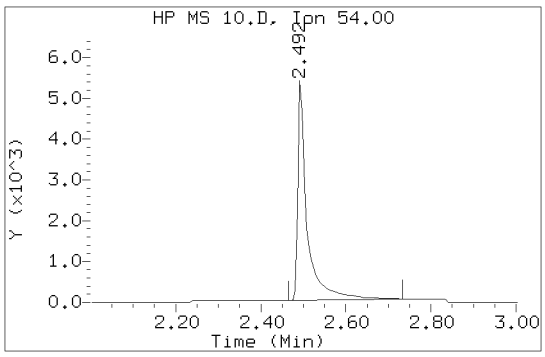
BEFORE

MASS
54
AREA
9543
HEIGHT
5435
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
54
AREA
8025
HEIGHT
5379
28-May-2024
13:05

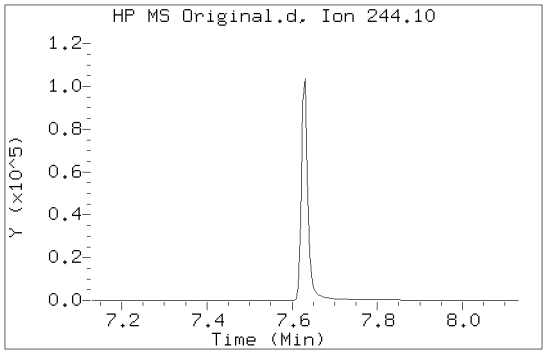


4-Terphenyl-d14 (1718-51-0)

Reason Code:

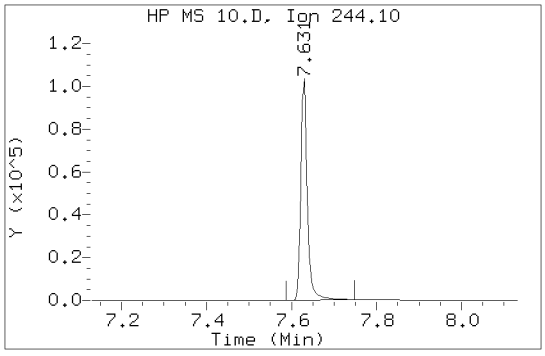
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
244.1
AREA
111493
HEIGHT
103434
28-May-2024
13:05



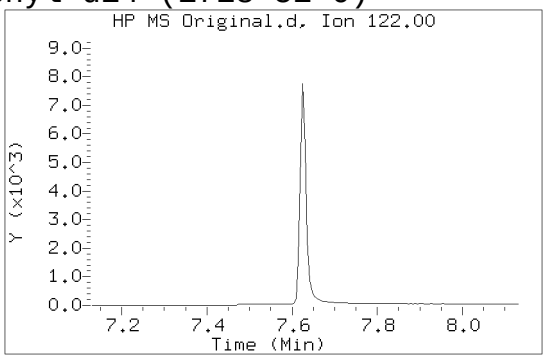
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

4-Terphenyl-d14 (1718-51-0)

Reason Code:

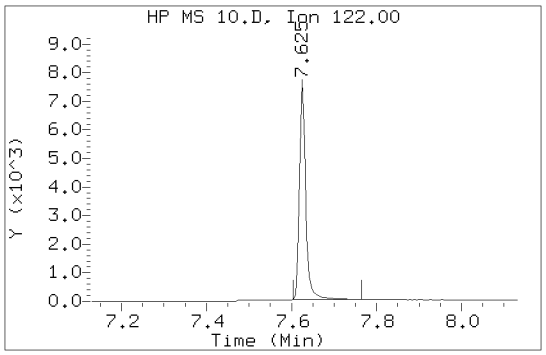
BEFORE

MASS
122
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



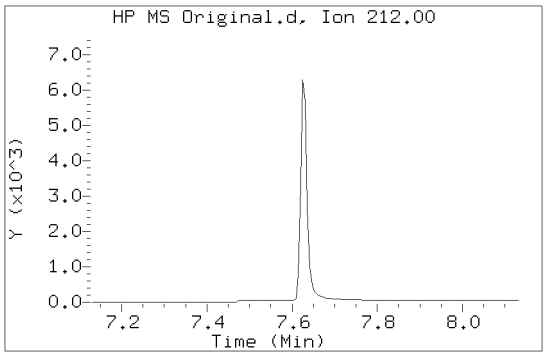
AFTER

MASS
122
AREA
7961
HEIGHT
7695
28-May-2024
13:05



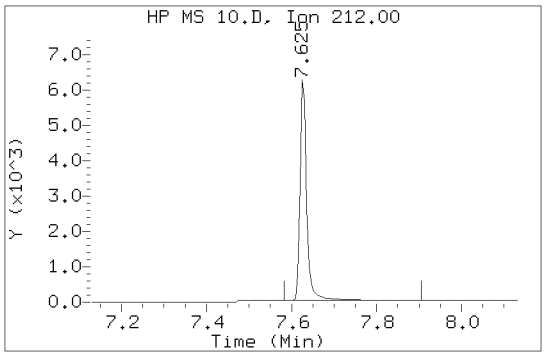
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
212
AREA
6900
HEIGHT
6243
28-May-2024
13:05

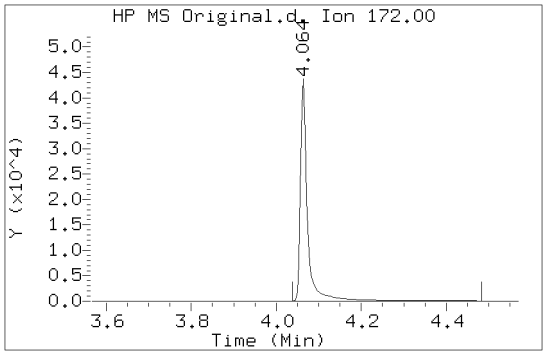


2-Fluorobiphenyl (321-60-8)

Reason Code:

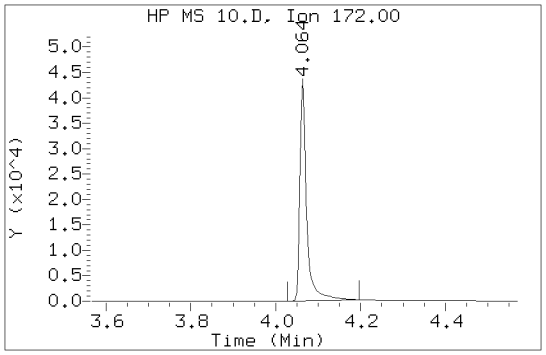
BEFORE

MASS
172
AREA
51564
HEIGHT
43720
18-Apr-2024
14:51
ALSHS
Server



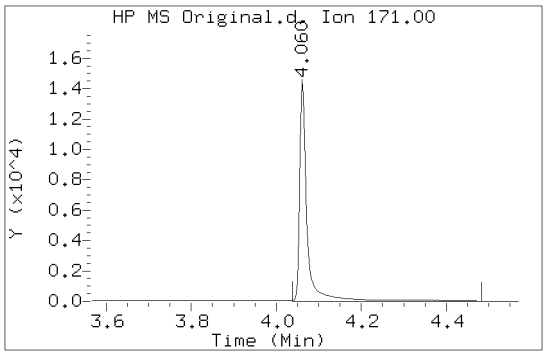
AFTER

MASS
172
AREA
47534
HEIGHT
43625
28-May-2024
13:05



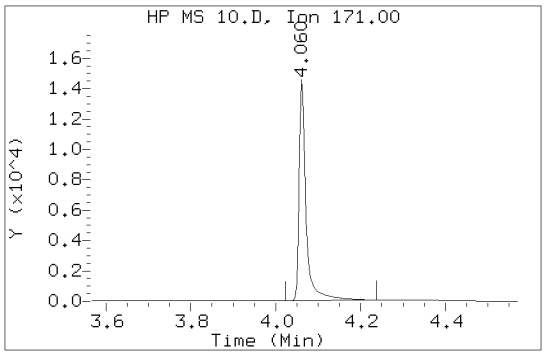
BEFORE

MASS
171
AREA
18313
HEIGHT
14592
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
171
AREA
16377
HEIGHT
14537
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Lab Smp Id: 14DX ICV-0.08 Client Smp ID: 14DX ICV-0.08
Inj Date : 18-APR-2024 14:53
Operator : LG Inst ID: SV6.i
Smp Info : 14DX ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2645	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7708	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	1691	0.07308	0.07308(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5072	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	5460	0.07042	0.07042(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10292	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	7884	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	11331	0.07055	0.07055(M)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8007	0.10000	
1 1,4-Dioxane	58	0.838	0.820	(0.400)	429	0.07572	0.07572

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D

Date : 18-APR-2024 14:53

Client ID: 14DX ICV-0.08

Instrument: SV6.i

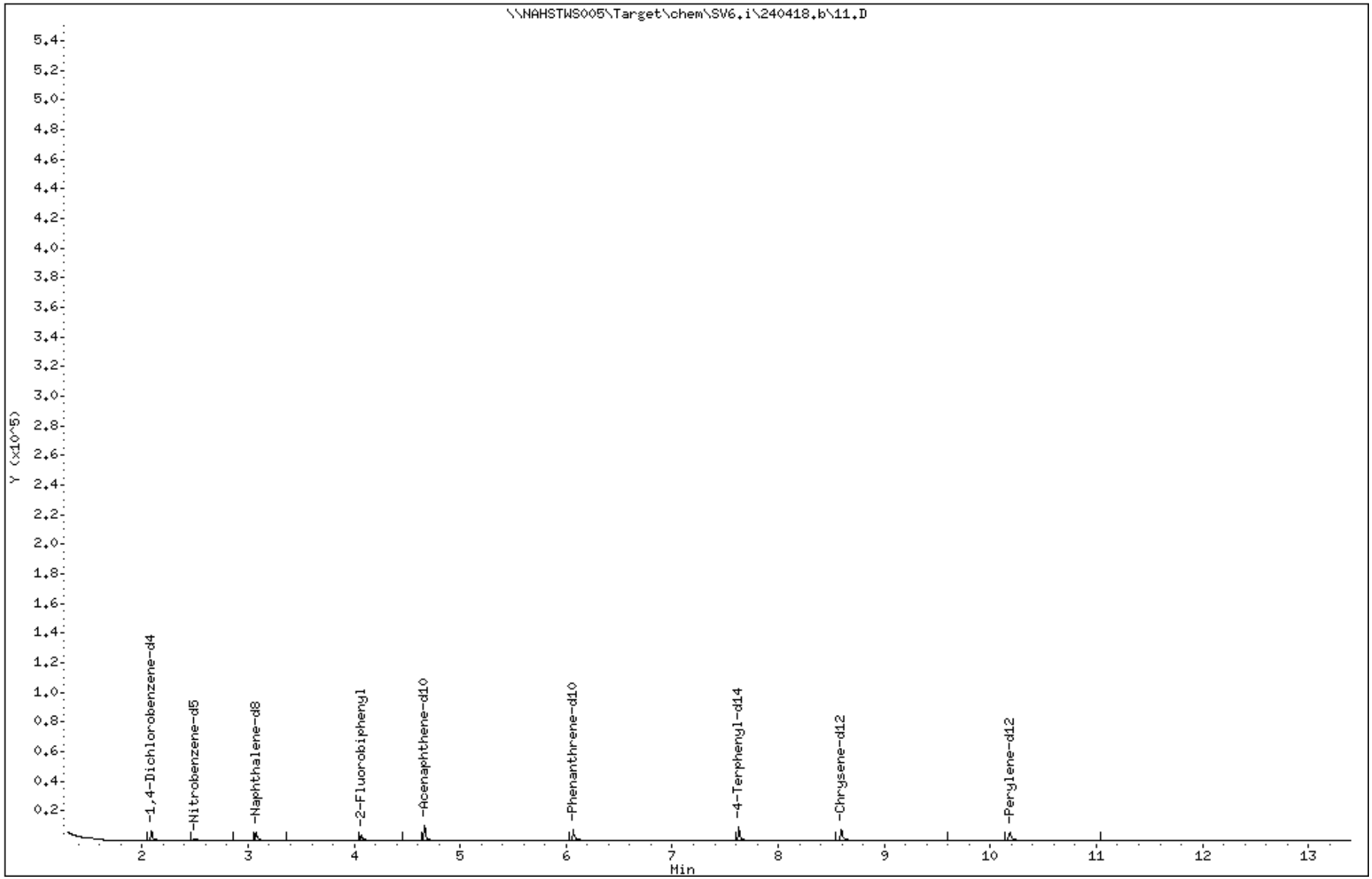
Sample Info: 14DX ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



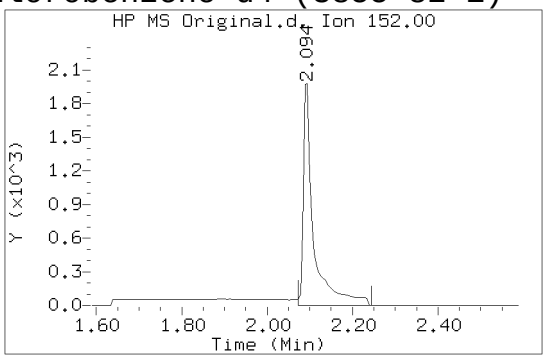
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

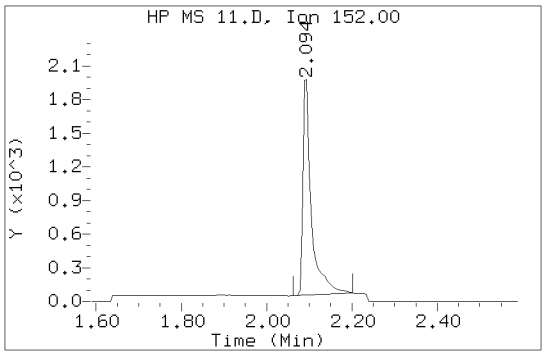
BEFORE

MASS
152
AREA
3284
HEIGHT
1978
18-Apr-2024
15:08
ALSHS
Server



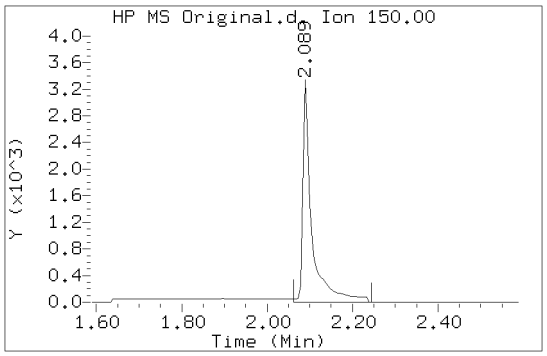
AFTER

MASS
152
AREA
2645
HEIGHT
1921
05-Jun-2024
11:49
ALSHS



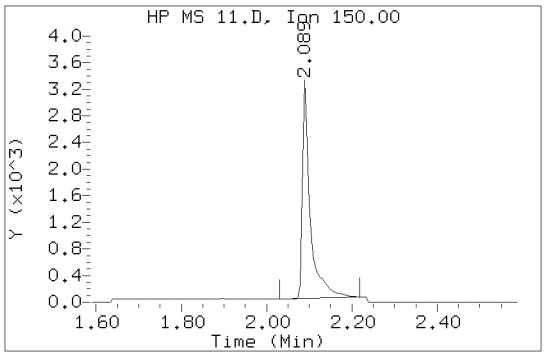
BEFORE

MASS
150
AREA
4880
HEIGHT
3340
18-Apr-2024
15:08
ALSHS
Server



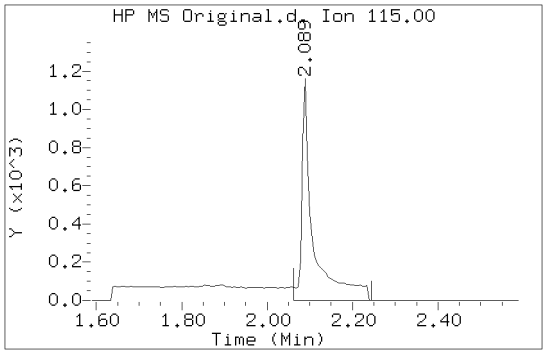
AFTER

MASS
150
AREA
4160
HEIGHT
3281
05-Jun-2024
11:49
ALSHS



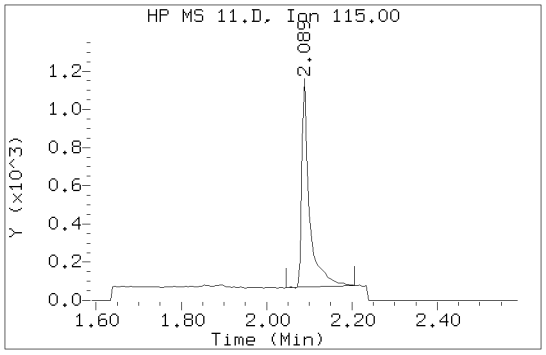
BEFORE

MASS
115
AREA
2134
HEIGHT
1161
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
115
AREA
1363
HEIGHT
1092
05-Jun-2024
11:49
ALSHS

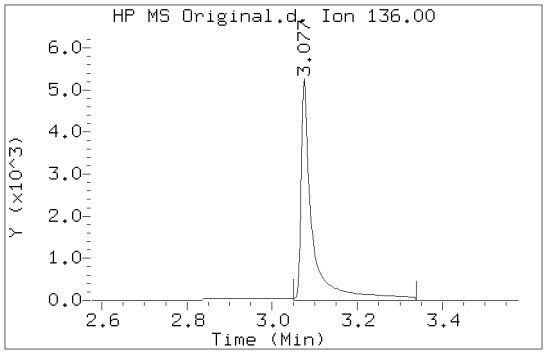


Naphthalene-d8 (1146-65-2)

Reason Code:

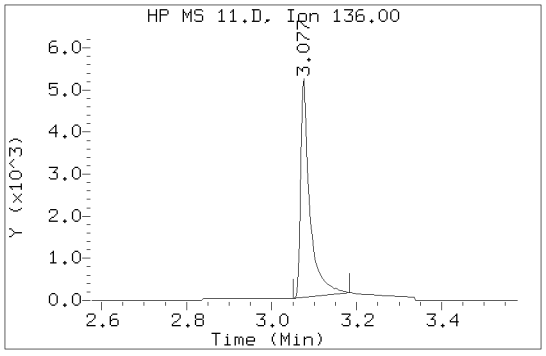
BEFORE

MASS
136
AREA
9692
HEIGHT
5268
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
136
AREA
7708
HEIGHT
5193
05-Jun-2024
11:49
ALSHS



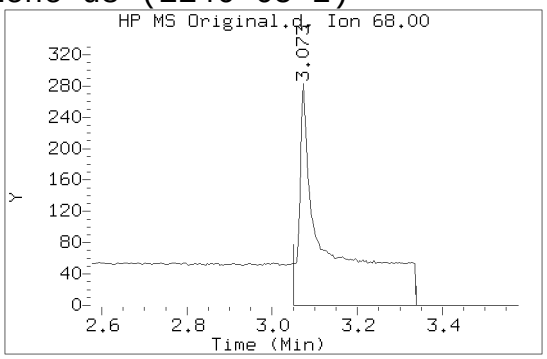
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

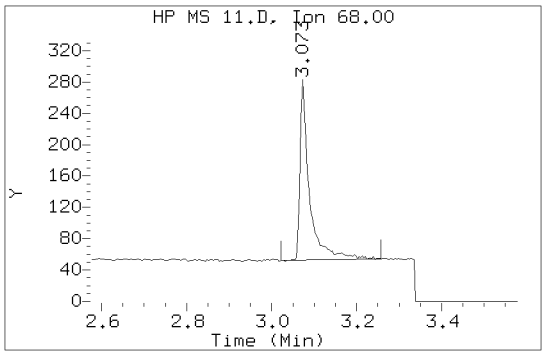
BEFORE

MASS
68
AREA
1275
HEIGHT
283
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
68
AREA
353
HEIGHT
230
05-Jun-2024
11:49
ALSHS

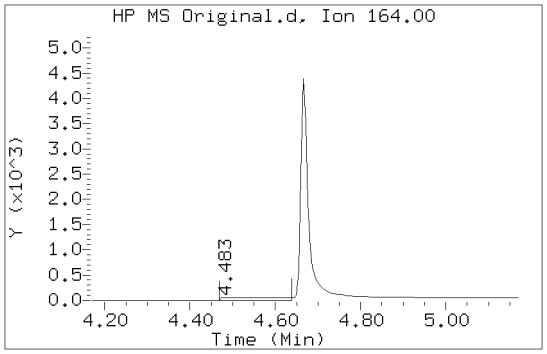


Acenaphthene-d10 (15067-26-2)

Reason Code:

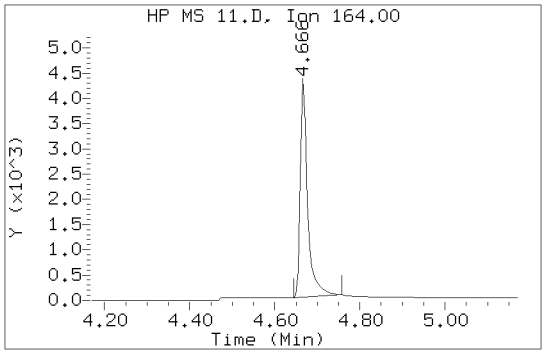
BEFORE

MASS
164
AREA
510
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



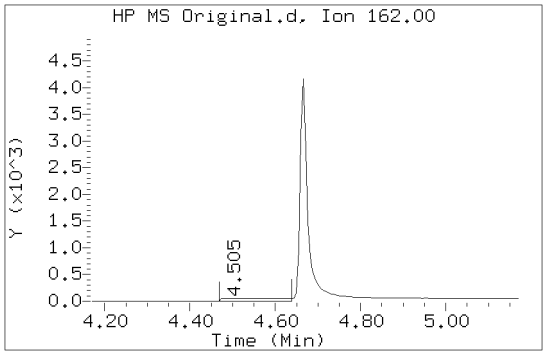
AFTER

MASS
164
AREA
5072
HEIGHT
4329
05-Jun-2024
11:49
ALSHS



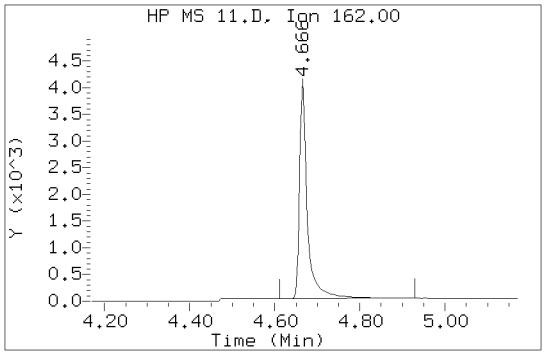
BEFORE

MASS
162
AREA
503
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



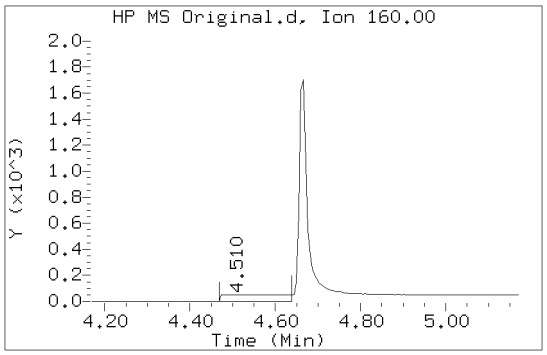
AFTER

MASS
162
AREA
5122
HEIGHT
4113
05-Jun-2024
11:49
ALSHS



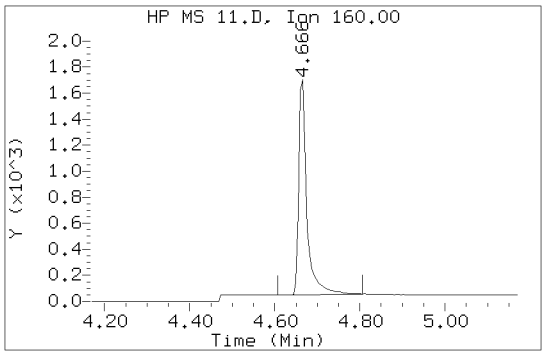
BEFORE

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
160
AREA
2174
HEIGHT
1653
05-Jun-2024
11:49
ALSHS



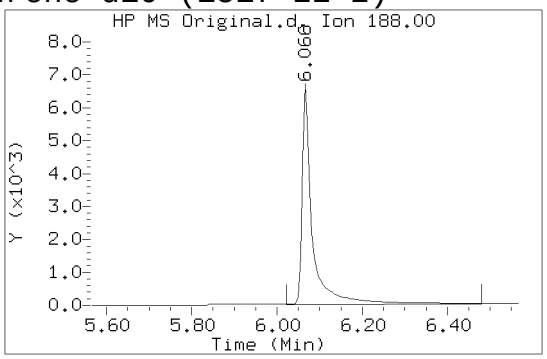
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

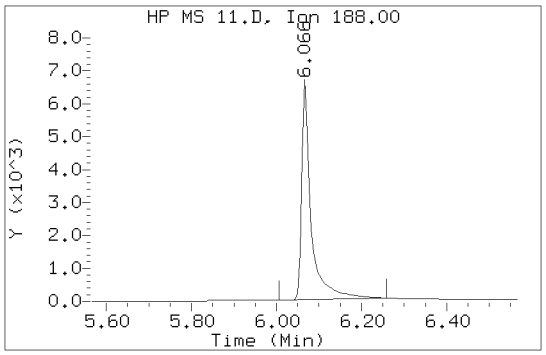
BEFORE

MASS
188
AREA
11412
HEIGHT
6713
18-Apr-2024
15:08
ALSHS
Server



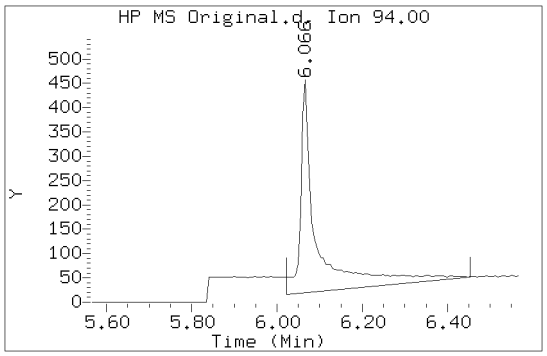
AFTER

MASS
188
AREA
10292
HEIGHT
6674
05-Jun-2024
11:49
ALSHS



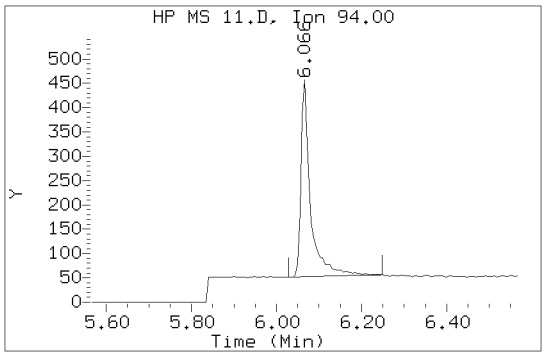
BEFORE

MASS
94
AREA
1149
HEIGHT
437
18-Apr-2024
15:08
ALSHS
Server



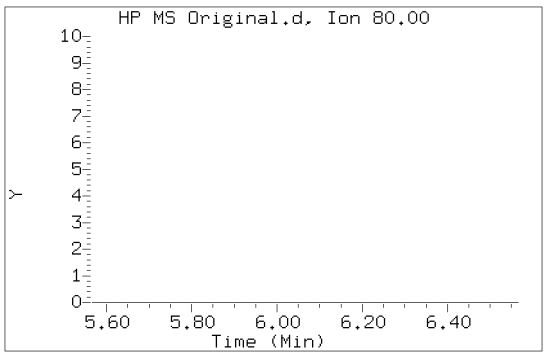
AFTER

MASS
94
AREA
624
HEIGHT
404
05-Jun-2024
11:49
ALSHS



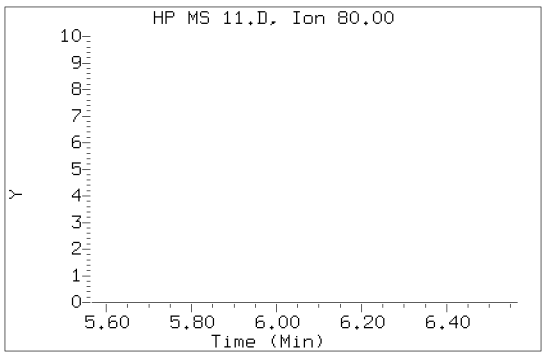
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
05-Jun-2024
11:49
ALSHS

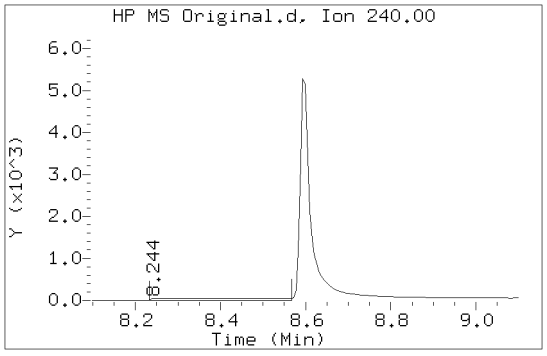


Chrysene-d12 (1719-03-5)

Reason Code:

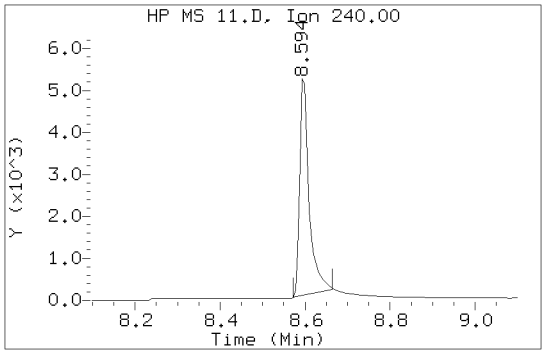
BEFORE

MASS
240
AREA
945
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
240
AREA
7884
HEIGHT
5168
05-Jun-2024
11:49
ALSHS

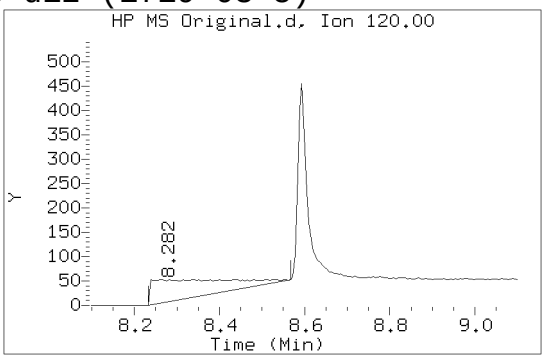


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

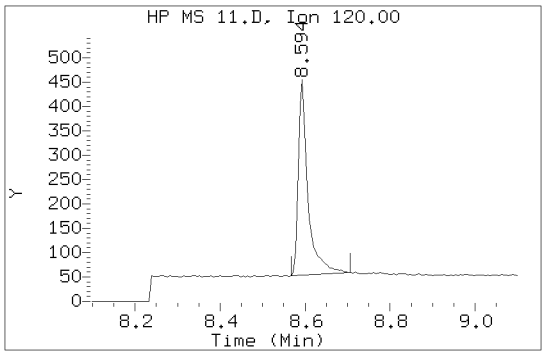
Chrysene-d12 (1719-03-5)

Reason Code:

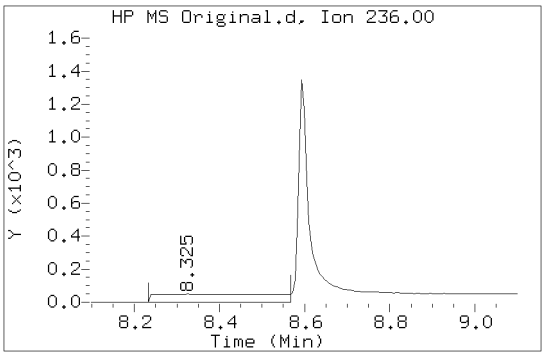
BEFORE
MASS
120
AREA
488
HEIGHT
45
18-Apr-2024
15:08
ALSHS
Server



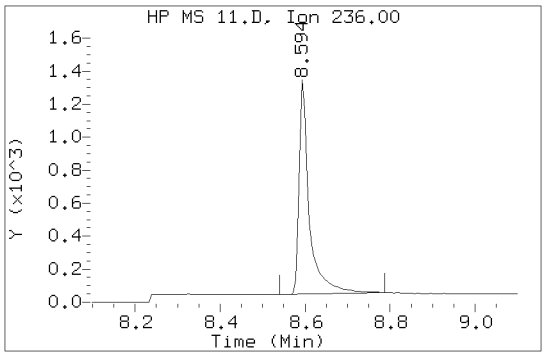
AFTER
MASS
120
AREA
625
HEIGHT
400
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
236
AREA
948
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



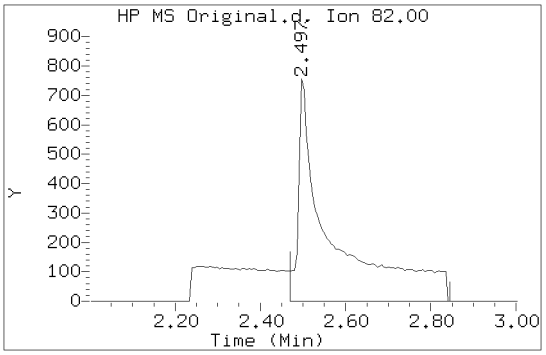
AFTER
MASS
236
AREA
2142
HEIGHT
1296
05-Jun-2024
11:49
ALSHS



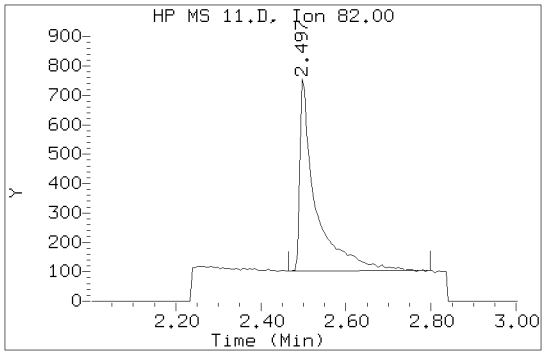
Nitrobenzene-d5 (4165-60-0)

Reason Code:

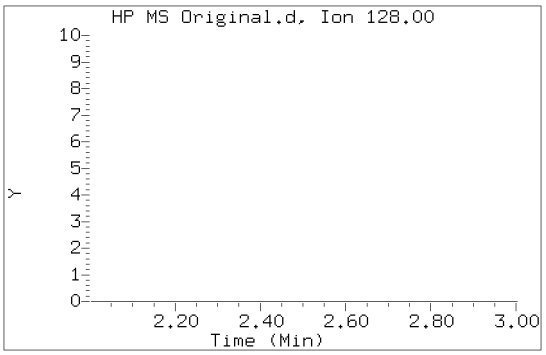
BEFORE
MASS
82
AREA
3957
HEIGHT
756
18-Apr-2024
15:08
ALSHS
Server



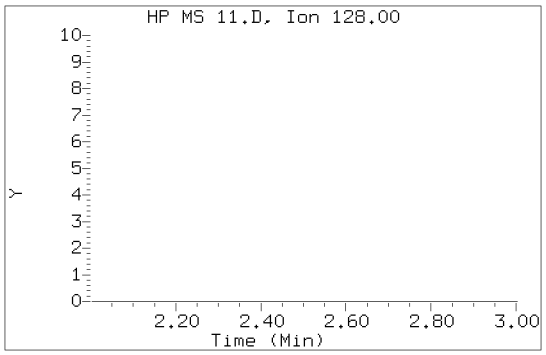
AFTER
MASS
82
AREA
1691
HEIGHT
653
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
05-Jun-2024
11:49
ALSHS



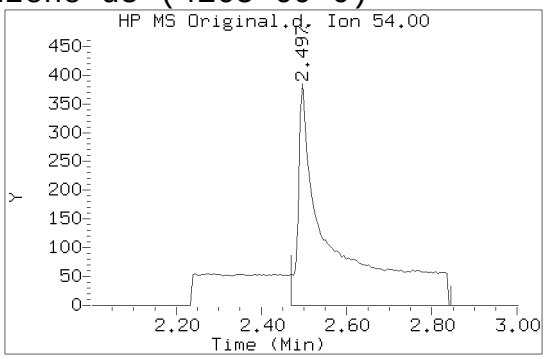
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

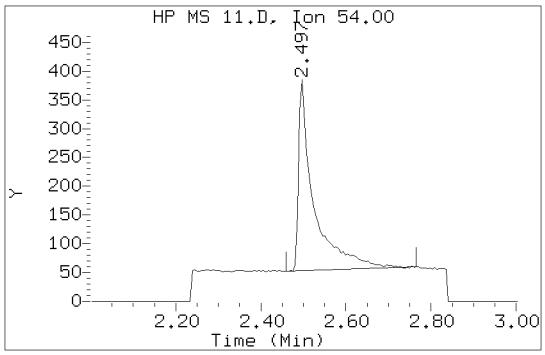
BEFORE

MASS
54
AREA
2061
HEIGHT
385
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
54
AREA
818
HEIGHT
332
05-Jun-2024
11:49
ALSHS

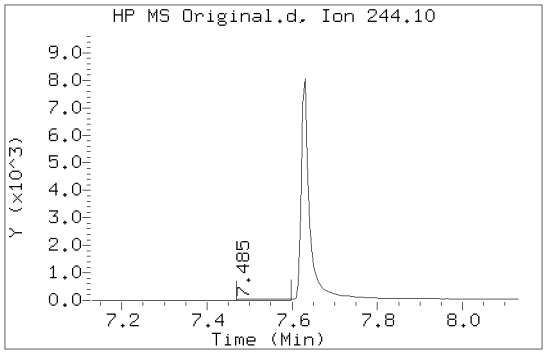


4-Terphenyl-d14 (1718-51-0)

Reason Code:

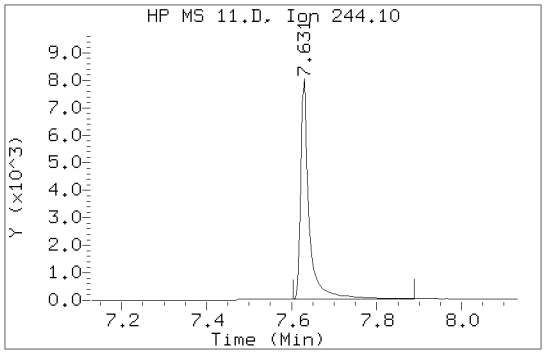
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



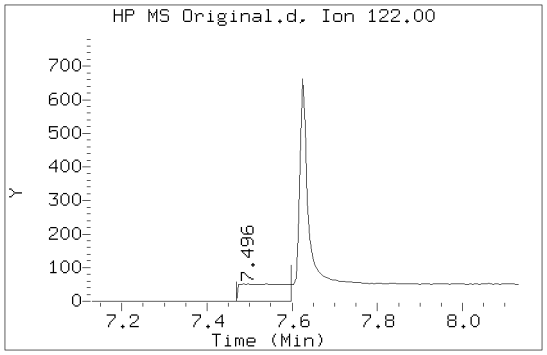
AFTER

MASS
244.1
AREA
11331
HEIGHT
8023
05-Jun-2024
11:49
ALSHS



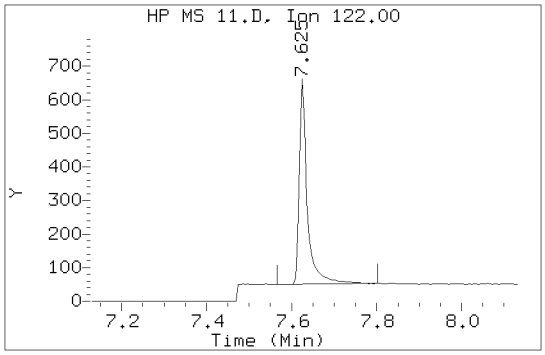
BEFORE

MASS
122
AREA
387
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



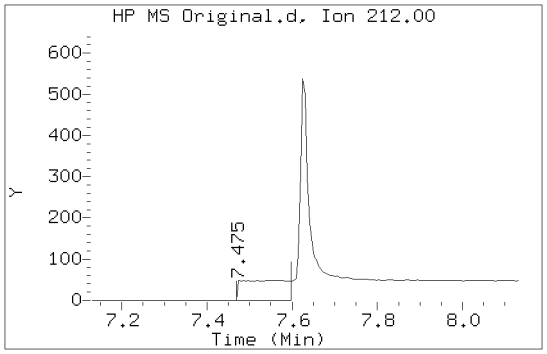
AFTER

MASS
122
AREA
801
HEIGHT
611
05-Jun-2024
11:49
ALSHS



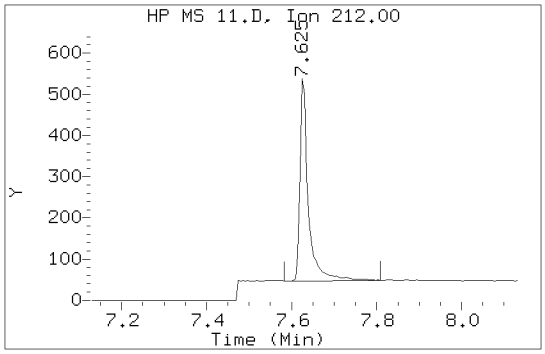
BEFORE

MASS
212
AREA
367
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
212
AREA
675
HEIGHT
490
05-Jun-2024
11:49
ALSHS



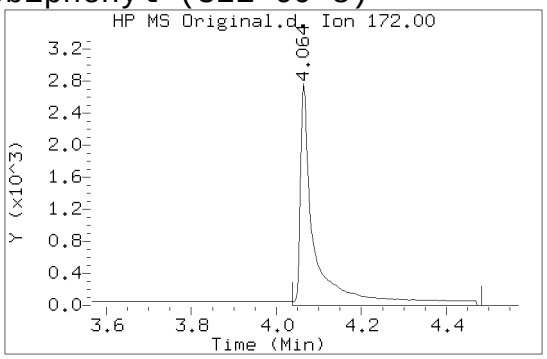
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

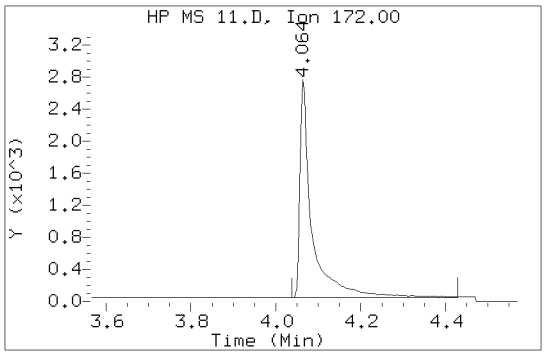
BEFORE

MASS
172
AREA
6739
HEIGHT
2770
18-Apr-2024
15:08
ALSHS
Server



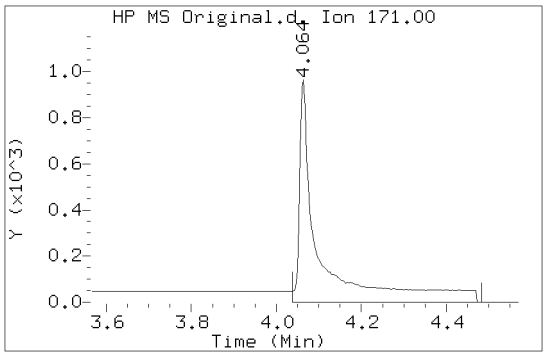
AFTER

MASS
172
AREA
5460
HEIGHT
2724
05-Jun-2024
11:49
ALSHS



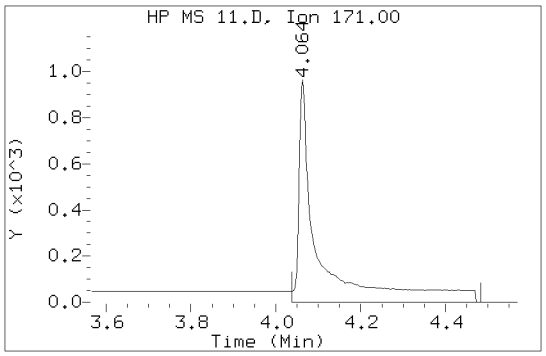
BEFORE

MASS
171
AREA
3102
HEIGHT
964
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
171
AREA
3102
HEIGHT
964
05-Jun-2024
11:49
ALSHS



HS24060899 - ME - HG_W_DODICP_W_DOD

ALS WO# HS24060899

ALS Houston, US

Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899
Start Date: 24-Jun-2024 End Date: 24-Jun-2024

Run ID:HG04_470273
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	24-Jun-2024 11:25	_8094599	HG
ICB	1	24-Jun-2024 11:27	_8094600	HG
CRA	1	24-Jun-2024 11:28	_8094601	HG
CCV 1	1	24-Jun-2024 11:31	_8094602	HG
CCB 1	1	24-Jun-2024 11:32	_8094603	HG
CCV 2	1	24-Jun-2024 11:58	_8094614	HG
CCB 2	1	24-Jun-2024 12:00	_8094615	HG
CCV 3	1	24-Jun-2024 12:25	_8094626	HG
CCB 3	1	24-Jun-2024 12:26	_8094627	HG
CCV 4	1	24-Jun-2024 12:53	_8094638	HG
CCB 4	1	24-Jun-2024 12:55	_8094639	HG
CCV 5	1	24-Jun-2024 13:19	_8094650	HG
CCB 5	1	24-Jun-2024 13:21	_8094651	HG
CCV 6	1	24-Jun-2024 13:40	_8094662	HG
CCB 6	1	24-Jun-2024 13:42	_8094663	HG
CCV 7	1	24-Jun-2024 14:05	_8094674	HG
CCB 7	1	24-Jun-2024 14:07	_8094675	HG
CCV 8	1	24-Jun-2024 14:34	_8094698	HG
CCB 8	1	24-Jun-2024 14:36	_8094699	HG
MBLK-214008	1	24-Jun-2024 14:42	_8094701	HG
LCS-214008	1	24-Jun-2024 14:44	_8094702	HG
ZZZZZZMS	1	24-Jun-2024 14:49	_8094705	HG
ZZZZZZMSD	1	24-Jun-2024 14:51	_8094706	HG
CCV 9	1	24-Jun-2024 15:00	_8094710	HG
CCB 9	1	24-Jun-2024 15:01	_8094711	HG
CCV 10	1	24-Jun-2024 15:30	_8094722	HG
CCB 10	1	24-Jun-2024 15:32	_8094723	HG
AWD4_061324	1	24-Jun-2024 15:36	_8094724	HG
18WW09_061324	1	24-Jun-2024 15:38	_8094725	HG
18WW22_061324	1	24-Jun-2024 15:40	_8094726	HG
CCV 11	1	24-Jun-2024 15:53	_8094791	HG
CCB 11	1	24-Jun-2024 15:54	_8094792	HG
CRA	1	24-Jun-2024 15:56	_8094801	HG

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899
Start Date: 25-Jun-2024 End Date: 25-Jun-2024

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_470364_Tune	1	25-Jun-2024 00:00	ICPMS07_470364_Tune_1	
CAL BLK	1	25-Jun-2024 10:33	010CALB.d_8096746	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	25-Jun-2024 10:35	011CALS.d_8096747	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	25-Jun-2024 10:38	012CALS.d_8096748	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	25-Jun-2024 10:41	013CALS.d_8096749	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 10:43	014CALS.d_8096750	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	25-Jun-2024 10:46	015CALS.d_8096751	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 10:54	017CALS.d_8096753	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	25-Jun-2024 11:01	019_ICV.d_8096755	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	25-Jun-2024 11:06	021LCV2.d_8096757	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	25-Jun-2024 11:09	022LCV5.d_8096758	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	25-Jun-2024 11:13	024_ICB.d_8096760	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	25-Jun-2024 11:18	026ICSA.d_8096762	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	25-Jun-2024 11:21	027ICSB.d_8096763	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CAL BLK	1	25-Jun-2024 15:47	116CALB.d_8097895	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	25-Jun-2024 15:49	117CALS.d_8097896	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	25-Jun-2024 15:52	118CALS.d_8097897	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	25-Jun-2024 15:54	119CALS.d_8097898	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 15:57	120CALS.d_8097899	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	25-Jun-2024 15:59	121CALS.d_8097900	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	25-Jun-2024 16:11	125LCV2.d_8097904	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	25-Jun-2024 16:13	126LCV5.d_8097905	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCB 1	1	25-Jun-2024 16:15	127_ICB.d_8097906	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	25-Jun-2024 16:18	128_ICV.d_8097907	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	25-Jun-2024 16:29	130ICSA.d_8097918	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	25-Jun-2024 16:32	131ICSB.d_8097919	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	25-Jun-2024 16:42	134_CCV.d_8098136	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	25-Jun-2024 16:44	135_CCB.d_8098137	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-213798	1	25-Jun-2024 16:47	136SMPL.d_8098138	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-213798	1	25-Jun-2024 16:49	137SMPL.d_8098139	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE V ZN
ZZZZZZSD	5	25-Jun-2024 16:52	138SMPL.d_8098175	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899
Start Date: 25-Jun-2024 End Date: 25-Jun-2024

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ZZZZZZMS	1	25-Jun-2024 16:56	140SMPL.d_8098177	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V
ZZZZZZMSD	1	25-Jun-2024 16:59	141SMPL.d_8098178	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V
ZZZZZZPDS	1	25-Jun-2024 17:01	142SMPL.d_8098179	AG AS BA BE CD CO CR CU FE K MG NI PB SB SE TL V
CCV 2	1	25-Jun-2024 17:06	144_CCV.d_8098241	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	25-Jun-2024 17:09	145_CCB.d_8098242	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-213798	1	25-Jun-2024 17:33	155SMPL.d_8098251	TL
CCB 4	1	25-Jun-2024 17:38	157_CCB.d_8098253	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	25-Jun-2024 17:52	160_CCV.d_8098256	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	25-Jun-2024 17:54	161_CCV.d_8098257	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
AWD4_061324	1	25-Jun-2024 18:11	168SMPL.d_8098359	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW09_061324	1	25-Jun-2024 18:14	169SMPL.d_8098360	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW22_061324	1	25-Jun-2024 18:16	170SMPL.d_8098361	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 5	1	25-Jun-2024 18:22	172_CCV.d_8098363	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 5	1	25-Jun-2024 18:25	173_CCB.d_8098364	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZSD	10	25-Jun-2024 18:41	176SMPL.d_8098367	MN NA
ZZZZZZMS	2	25-Jun-2024 18:43	177SMPL.d_8098368	MN NA
ZZZZZZMSD	2	25-Jun-2024 18:46	178SMPL.d_8098369	MN NA
ZZZZZZPDS	2	25-Jun-2024 18:48	179SMPL.d_8098372	MN NA
CCV 6	1	25-Jun-2024 19:07	184_CCV.d_8098806	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 6	1	25-Jun-2024 19:10	185_CCB.d_8098807	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 7	1	25-Jun-2024 19:37	193_CCV.d_8098815	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 7	1	25-Jun-2024 19:39	194_CCB.d_8098816	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899
Start Date: 26-Jun-2024 End Date: 26-Jun-2024

Run ID:ICPMS07_470472
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_470472_Tune	1	26-Jun-2024 00:00	ICPMS07_470472_Tune_1	
CAL BLK	1	26-Jun-2024 10:42	010CALB.d_8099730	AL ZN
2/10/200	1	26-Jun-2024 10:44	011CALS.d_8099731	AL ZN
5/25/500	1	26-Jun-2024 10:47	012CALS.d_8099732	AL ZN
10/50/100	1	26-Jun-2024 10:50	013CALS.d_8099733	AL ZN
100/500/10K	1	26-Jun-2024 10:53	014CALS.d_8099734	AL ZN
200/1000/20K	1	26-Jun-2024 10:55	015CALS.d_8099735	AL ZN
100/500/10K	1	26-Jun-2024 11:06	018CALS.d_8099738	AL ZN
200/1000/20K	1	26-Jun-2024 11:09	019CALS.d_8099739	AL ZN
ICV	1	26-Jun-2024 11:15	021_ICV.d_8099741	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	26-Jun-2024 11:19	023LCV2.d_8099743	AL ZN
LLICV5	1	26-Jun-2024 11:22	024LCV5.d_8099744	AL ZN
ICB	1	26-Jun-2024 11:24	025_ICB.d_8099745	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	26-Jun-2024 11:31	027ICSA.d_8099755	AL ZN
ICSAB	1	26-Jun-2024 11:34	028ICSB.d_8099756	AL ZN
CCV 1	1	26-Jun-2024 11:52	033_CCV.d_8099811	AL ZN
CCB 1	1	26-Jun-2024 11:55	034_CCB.d_8099812	AL ZN
ZZZZZZSD	5	26-Jun-2024 12:15	041SMPL.d_8099862	AL ZN
ZZZZZZMS	1	26-Jun-2024 12:18	042SMPL.d_8099863	AL ZN
ZZZZZZMSD	1	26-Jun-2024 12:20	043SMPL.d_8099864	AL ZN
ZZZZZZPDS	1	26-Jun-2024 12:23	044SMPL.d_8099865	AL ZN
CCV 2	1	26-Jun-2024 12:33	046_CCV.d_8099902	AL ZN
CCB 2	1	26-Jun-2024 12:35	047_CCB.d_8099903	AL ZN

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: HG04_470273
Instrument: HG04
Method: SW7470A

ICV	Date: 24-Jun-2024 11:25		Seq: 8094599	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.09	102	90-110	

CCV1	Date: 24-Jun-2024 11:31		Seq: 8094602	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5	100	90-110	

CCV2	Date: 24-Jun-2024 11:58		Seq: 8094614	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.02	100	90-110	

CCV3	Date: 24-Jun-2024 12:25		Seq: 8094626	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

CCV4	Date: 24-Jun-2024 12:53		Seq: 8094638	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5	100	90-110	

CCV5	Date: 24-Jun-2024 13:19		Seq: 8094650	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV6	Date: 24-Jun-2024 13:40		Seq: 8094662	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.91	98	90-110	

CCV7	Date: 24-Jun-2024 14:05		Seq: 8094674	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.95	99	90-110	

CCV8	Date: 24-Jun-2024 14:34		Seq: 8094698	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

CCV9	Date: 24-Jun-2024 15:00		Seq: 8094710	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.85	97	90-110	

CCV10	Date: 24-Jun-2024 15:30		Seq: 8094722	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.86	97	90-110	

CCV11	Date: 24-Jun-2024 15:53		Seq: 8094791	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.81	96	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

ICV Date: 25-Jun-2024 11:01 Seq: 8096755 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.737	102	90-110	
Antimony	100	98.221	98	90-110	
Arsenic	100	98.763	99	90-110	
Barium	100	97.648	98	90-110	
Beryllium	100	95.306	95	90-110	
Cadmium	100	97.871	98	90-110	
Calcium	10000	9802.618	98	90-110	
Chromium	100	98.598	99	90-110	
Cobalt	100	98.666	99	90-110	
Copper	100	99.362	99	90-110	
Iron	10000	9861.289	99	90-110	
Lead	100	98.592	99	90-110	
Magnesium	10000	9883.176	99	90-110	
Manganese	100	97.656	98	90-110	
Nickel	100	99.46	100	90-110	
Potassium	10000	9921.599	99	90-110	
Selenium	100	97.877	98	90-110	
Silver	100	99.433	99	90-110	
Sodium	10000	9777.302	98	90-110	
Thallium	100	97.837	98	90-110	
Vanadium	100	98.092	98	90-110	
Zinc	100	99.966	100	90-110	

ICV Date: 25-Jun-2024 16:18 Seq: 8097907 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.7	102	90-110	
Antimony	100	99.177	99	90-110	
Arsenic	100	100.233	100	90-110	
Barium	100	98.472	99	90-110	
Beryllium	100	99.663	100	90-110	
Cadmium	100	98.208	98	90-110	
Calcium	10000	9861.725	99	90-110	
Chromium	100	100.212	100	90-110	
Cobalt	100	100.957	101	90-110	
Copper	100	100.887	101	90-110	
Iron	10000	10077.376	101	90-110	
Lead	100	98.36	98	90-110	
Magnesium	10000	10086.049	101	90-110	
Manganese	100	99.976	100	90-110	
Nickel	100	101.174	101	90-110	
Potassium	10000	10033.475	100	90-110	
Selenium	100	101.341	101	90-110	
Silver	100	99.246	99	90-110	
Sodium	10000	10020.113	100	90-110	
Thallium	100	98.785	99	90-110	
Vanadium	100	99.833	100	90-110	
Zinc	100	102.229	102	90-110	

CCV1 Date: 25-Jun-2024 16:42 Seq: 8098136 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.661	100	90-110	
Antimony	100	100.093	100	90-110	
Arsenic	100	99.895	100	90-110	
Barium	100	98.473	99	90-110	
Beryllium	100	100.052	100	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV1	Date: 25-Jun-2024 16:42		Seq: 8098136	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Cadmium	100	98.143	98	90-110	
Calcium	10000	9724.528	97	90-110	
Chromium	100	100.18	100	90-110	
Cobalt	100	101.461	101	90-110	
Copper	100	100.976	101	90-110	
Iron	10000	10111.096	101	90-110	
Lead	100	98.877	99	90-110	
Magnesium	10000	10025.231	100	90-110	
Manganese	100	98.574	99	90-110	
Nickel	100	100.915	101	90-110	
Potassium	10000	10028.992	100	90-110	
Selenium	100	99.498	100	90-110	
Silver	100	99.724	100	90-110	
Sodium	10000	9968.711	100	90-110	
Thallium	100	99.346	99	90-110	
Vanadium	100	99.859	100	90-110	
Zinc	100	101.242	101	90-110	

CCV2	Date: 25-Jun-2024 17:06		Seq: 8098241	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	97.872	98	90-110	
Antimony	100	96.741	97	90-110	
Arsenic	100	96.526	97	90-110	
Barium	100	96.245	96	90-110	
Beryllium	100	97.275	97	90-110	
Cadmium	100	96.019	96	90-110	
Calcium	10000	9436.495	94	90-110	
Chromium	100	96.516	97	90-110	
Cobalt	100	98.328	98	90-110	
Copper	100	97.409	97	90-110	
Iron	10000	9787.536	98	90-110	
Lead	100	96.434	96	90-110	
Magnesium	10000	9724.745	97	90-110	
Manganese	100	95.82	96	90-110	
Nickel	100	98.209	98	90-110	
Potassium	10000	9702.682	97	90-110	
Selenium	100	97.324	97	90-110	
Silver	100	97.527	98	90-110	
Sodium	10000	9703.901	97	90-110	
Thallium	100	96.511	97	90-110	
Vanadium	100	96.083	96	90-110	
Zinc	100	98.45	98	90-110	

CCV3	Date: 25-Jun-2024 17:52		Seq: 8098256	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	95.537	96	90-110	
Antimony	100	103.951	104	90-110	
Arsenic	100	97.384	97	90-110	
Barium	100	102.548	103	90-110	
Beryllium	100	100.967	101	90-110	
Cadmium	100	101.219	101	90-110	
Calcium	10000	9003.431	90	90-110	
Chromium	100	98.42	98	90-110	
Cobalt	100	100.127	100	90-110	
Copper	100	99.725	100	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV3	Date: 25-Jun-2024 17:52		Seq: 8098256	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Iron	10000	9429.504	94	90-110	
Lead	100	102.627	103	90-110	
Magnesium	10000	9246.09	93	90-110	
Manganese	100	97.305	97	90-110	
Nickel	100	99.279	99	90-110	
Potassium	10000	9209.335	92	90-110	
Selenium	100	100.034	100	90-110	
Silver	100	100.494	100	90-110	
Sodium	10000	9134.974	91	90-110	
Thallium	100	106.156	106	90-110	
Vanadium	100	98.163	98	90-110	
Zinc	100	99.11	99	90-110	

CCV4	Date: 25-Jun-2024 17:54		Seq: 8098257	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	98.933	99	90-110	
Antimony	100	106.238	106	90-110	
Arsenic	100	99.027	99	90-110	
Barium	100	102.938	103	90-110	
Beryllium	100	102.485	102	90-110	
Cadmium	100	103.567	104	90-110	
Calcium	10000	9248.044	93	90-110	
Chromium	100	99.401	99	90-110	
Cobalt	100	101.307	101	90-110	
Copper	100	101.821	102	90-110	
Iron	10000	9487.578	95	90-110	
Lead	100	103.679	104	90-110	
Magnesium	10000	9480.477	95	90-110	
Manganese	100	98.323	98	90-110	
Nickel	100	100.589	101	90-110	
Potassium	10000	9539.387	95	90-110	
Selenium	100	100.827	101	90-110	
Silver	100	102.702	103	90-110	
Sodium	10000	9343.703	93	90-110	
Thallium	100	107.679	108	90-110	
Vanadium	100	100.231	100	90-110	
Zinc	100	101.613	102	90-110	

CCV5	Date: 25-Jun-2024 18:22		Seq: 8098363	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	98.265	98	90-110	
Antimony	100	107.828	108	90-110	
Arsenic	100	99.941	100	90-110	
Barium	100	103.012	103	90-110	
Beryllium	100	102.052	102	90-110	
Cadmium	100	102.446	102	90-110	
Calcium	10000	9215.957	92	90-110	
Chromium	100	101.574	102	90-110	
Cobalt	100	102.382	102	90-110	
Copper	100	102.639	103	90-110	
Iron	10000	9627.994	96	90-110	
Lead	100	102.433	102	90-110	
Magnesium	10000	9426.381	94	90-110	
Manganese	100	99.289	99	90-110	
Nickel	100	101.173	101	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV5	Date: 25-Jun-2024 18:22		Seq: 8098363	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Potassium	10000	9415.508	94	90-110	
Selenium	100	101.565	102	90-110	
Silver	100	102.055	102	90-110	
Sodium	10000	9295.562	93	90-110	
Thallium	100	105.893	106	90-110	
Vanadium	100	100.677	101	90-110	
Zinc	100	100.921	101	90-110	

CCV6	Date: 25-Jun-2024 19:07		Seq: 8098806	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	98.829	99	90-110	
Antimony	100	105.92	106	90-110	
Arsenic	100	99.555	100	90-110	
Barium	100	102.416	102	90-110	
Beryllium	100	103.294	103	90-110	
Cadmium	100	102.062	102	90-110	
Calcium	10000	9154.792	92	90-110	
Chromium	100	99.183	99	90-110	
Cobalt	100	101.235	101	90-110	
Copper	100	101.894	102	90-110	
Iron	10000	9483.686	95	90-110	
Lead	100	101.583	102	90-110	
Magnesium	10000	9412.361	94	90-110	
Manganese	100	98.55	99	90-110	
Nickel	100	101.102	101	90-110	
Potassium	10000	9373.544	94	90-110	
Selenium	100	100.185	100	90-110	
Silver	100	100.909	101	90-110	
Sodium	10000	9309.643	93	90-110	
Thallium	100	105.634	106	90-110	
Vanadium	100	99.303	99	90-110	
Zinc	100	101.532	102	90-110	

CCV7	Date: 25-Jun-2024 19:37		Seq: 8098815	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	99.134	99	90-110	
Antimony	100	107.32	107	90-110	
Arsenic	100	100.75	101	90-110	
Barium	100	102.687	103	90-110	
Beryllium	100	104.158	104	90-110	
Cadmium	100	102.609	103	90-110	
Calcium	10000	9359.178	94	90-110	
Chromium	100	100.437	100	90-110	
Cobalt	100	102.304	102	90-110	
Copper	100	102.677	103	90-110	
Iron	10000	9568.008	96	90-110	
Lead	100	101.885	102	90-110	
Magnesium	10000	9538.159	95	90-110	
Manganese	100	99.679	100	90-110	
Nickel	100	102.102	102	90-110	
Potassium	10000	9502.388	95	90-110	
Selenium	100	101.762	102	90-110	
Silver	100	100.744	101	90-110	
Sodium	10000	9486.946	95	90-110	
Thallium	100	105.725	106	90-110	

ALS Houston, US

Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV7 | Date: 25-Jun-2024 19:37 | Seq: 8098815 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Vanadium	100	100.93	101	90-110	
Zinc	100	101.864	102	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICV	Date: 26-Jun-2024 11:15		Seq: 8099741	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	99.81	100	90-110	
Zinc	100	102.9	103	90-110	

CCV1	Date: 26-Jun-2024 11:52		Seq: 8099811	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	99.47	100	90-110	
Zinc	100	100.642	101	90-110	

CCV2	Date: 26-Jun-2024 12:33		Seq: 8099902	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	104.669	105	90-110	
Zinc	100	103.778	104	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: HG04_470273
Instrument: HG04
Method: SW7470A

ICB	Date: 24-Jun-2024 11:27		Seq: 8094600	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB1	Date: 24-Jun-2024 11:32		Seq: 8094603	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB2	Date: 24-Jun-2024 12:00		Seq: 8094615	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB3	Date: 24-Jun-2024 12:26		Seq: 8094627	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB4	Date: 24-Jun-2024 12:55		Seq: 8094639	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB5	Date: 24-Jun-2024 13:21		Seq: 8094651	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB6	Date: 24-Jun-2024 13:42		Seq: 8094663	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB7	Date: 24-Jun-2024 14:07		Seq: 8094675	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB8	Date: 24-Jun-2024 14:36		Seq: 8094699	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
MBLK-214008	Date: 24-Jun-2024 14:42		Seq: 8094701	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB9	Date: 24-Jun-2024 15:01		Seq: 8094711	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB10	Date: 24-Jun-2024 15:32		Seq: 8094723	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB11	Date: 24-Jun-2024 15:54		Seq: 8094792	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 25-Jun-2024 11:13	Seq: 8096760	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Aluminum	2.696	1.8	10	J
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	69.22	34	500	J
Chromium	5	0.4	5	U
Cobalt	5	0.1	5	U
Copper	5	1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	-31.07	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

ICCB1	Date: 25-Jun-2024 16:15	Seq: 8097906	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Aluminum	2.058	1.8	10	J
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	42.64	34	500	J
Chromium	5	0.4	5	U
Cobalt	5	0.1	5	U
Copper	5	1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	-56.34	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

CCB2	Date: 25-Jun-2024 16:44	Seq: 8098137	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Aluminum	10	1.8	10	U
Antimony	2	0.4	2	U
Arsenic	2	0.4	2	U
Barium	4	1.9	4	U
Beryllium	2	0.2	2	U

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 25-Jun-2024 16:44		Seq: 8098137	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.483	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-81.6	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-213798	Date: 25-Jun-2024 16:47		Seq: 8098138	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB3	Date: 25-Jun-2024 17:09		Seq: 8098242	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.466	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB3	Date: 25-Jun-2024 17:09		Seq: 8098242	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-56.58	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 25-Jun-2024 17:38		Seq: 8098253	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.494	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 25-Jun-2024 18:25		Seq: 8098364	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.456	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB5	Date: 25-Jun-2024 18:25		Seq: 8098364	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-57.33	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB6	Date: 25-Jun-2024 19:10		Seq: 8098807	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.43	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-64.93	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB7	Date: 25-Jun-2024 19:39		Seq: 8098816	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.459	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-62.13	14	200	J	
Thallium	2	0.2	2	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB7 Date: 25-Jun-2024 19:39 Seq: 8098816 CCB Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 26-Jun-2024 11:24		Seq: 8099745	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	3.346	1.8	10	J	
Zinc	5	2	5	U	
CCB1	Date: 26-Jun-2024 11:55		Seq: 8099812	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	5.124	1.8	10	J	
Zinc	3.089	2	4	J	
CCB2	Date: 26-Jun-2024 12:35		Seq: 8099903	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	2.554	1.8	10	J	
Zinc	4	2	4	U	

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS07_470364
Project: LHAAP 18 24 Instrument:ICPMS07
WorkOrder: HS24060899 Method:SW6020A

ICSA	Date: 25-Jun-2024 11:18	Seq: 8096762	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	98850	98.9	
Antimony		0.072	0	
Arsenic		0.362	0	
Barium		0.556	0	
Beryllium		0.03	0	
Cadmium		0.793	0	
Calcium	100000	98040	98.0	
Chromium		0.808	0	
Cobalt		0.956	0	
Copper		0.69	0	
Iron	100000	96530	96.5	
Lead		0.863	0	
Magnesium	100000	97060	97.1	
Manganese		1.726	0	
Nickel		1.007	0	
Potassium	100000	97960	98.0	
Selenium		0.024	0	
Silver		0.046	0	
Sodium	100000	98280	98.3	
Thallium		0.008	0	
Vanadium		0.211	0	
Zinc		3.182	0	

ICSAB	Date: 25-Jun-2024 11:21	Seq: 8096763	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	101100	101	
Antimony	100	99.77	99.8	
Arsenic	100	103.3	103	
Barium	100	102.8	103	
Beryllium	100	87.55	87.6	
Cadmium	100	98.96	99.0	
Calcium	110000	110000	100.0	
Chromium	100	101.1	101	
Cobalt	100	99.03	99.0	
Copper	100	96.24	96.2	
Iron	110000	109100	99.1	
Lead	100	103.6	104	
Magnesium	110000	109000	99.1	
Manganese	100	100.4	100	
Nickel	100	95.96	96.0	
Potassium	110000	111200	101	
Selenium	100	102.6	103	
Silver	100	98.92	98.9	
Sodium	110000	110900	101	
Thallium	100	101.8	102	
Vanadium	100	102.3	102	
Zinc	100	100.2	100	

ICSA	Date: 25-Jun-2024 16:29	Seq: 8097918	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	104000	104	
Antimony		0.146	0	
Arsenic		0.371	0	
Barium		0.439	0	

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 25-Jun-2024 16:29	Seq: 8097918	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Beryllium		0.026	0	
Cadmium		0.735	0	
Calcium	100000	99410	99.4	
Chromium		0.806	0	
Cobalt		1.01	0	
Copper		0.708	0	
Iron	100000	98350	98.3	
Lead		0.874	0	
Magnesium	100000	98850	98.8	
Manganese		1.81	0	
Nickel		0.998	0	
Potassium	100000	101200	101	
Selenium		0.151	0	
Silver		0.025	0	
Sodium	100000	99970	100.0	
Thallium		0.006	0	
Vanadium		0.267	0	
Zinc		2.944	0	

ICSAB	Date: 25-Jun-2024 16:32	Seq: 8097919	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	98710	98.2	
Antimony	100	101.2	101	
Arsenic	100	100.3	100	
Barium	100	102.8	103	
Beryllium	100	96.89	96.9	
Cadmium	100	100.1	100	
Calcium	110000	104700	95.2	
Chromium	100	97.58	97.6	
Cobalt	100	96.53	96.5	
Copper	100	93.87	93.9	
Iron	110000	104900	95.3	
Lead	100	103.3	103	
Magnesium	110000	104400	95.0	
Manganese	100	97.5	97.5	
Nickel	100	94.09	94.1	
Potassium	110000	105900	96.3	
Selenium	100	102.8	103	
Silver	100	98.54	98.5	
Sodium	110000	105800	96.1	
Thallium	100	97.34	97.3	
Vanadium	100	99.39	99.4	
Zinc	100	98.54	98.5	

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICSA	Date: 26-Jun-2024 11:31	Seq: 8099755	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	107500	107	
Zinc		3.199	0	

ICSAB	Date: 26-Jun-2024 11:34	Seq: 8099756	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	105900	105	
Zinc	100	105.9	106	

ALS Houston, US

Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Date Analyzed: 24-Jun-2024 14:51
Date Extracted: 24-Jun-2024 09:00
Units: ug/L

Matrix Spike: HS24060694-02MS
Client Sample ID:

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	4.760	5.000	94.9	4.690	5.000	93.5	82-119	1.48	20

ALS Houston, US Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Date Analyzed: 25-Jun-2024 16:59
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Matrix Spike: HS24060694-01MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Antimony	5.000	49.64	50.00	98.7	49.77	50.00	98.9	85-117	0.243	20
Arsenic	5.000	49.35	50.00	98.0	49.62	50.00	98.6	84-116	0.538	20
Barium	199.4	244.3	50.00	89.7	243.8	50.00	88.6	86-114	0.211	20
Beryllium	2.000	48.89	50.00	97.7	49.08	50.00	98.1	83-121	0.378	20
Cadmium	2.000	48.23	50.00	96.2	48.43	50.00	96.6	87-115	0.422	20
Calcium	16200	20760	5000	91.3	20950	5000	95.0	87-118	0.884	20
Chromium	1.750	48.65	50.00	93.8	48.85	50.00	94.2	85-116	0.404	20
Cobalt	0.9010	48.27	50.00	94.7	48.79	50.00	95.8	86-115	1.07	20
Copper	1.140	48.62	50.00	95.0	48.90	50.00	95.5	85-118	0.574	20
Iron	221.7	5025	5000	96.1	5078	5000	97.1	87-118	1.06	20
Lead	5.000	48.03	50.00	95.9	48.29	50.00	96.4	88-115	0.538	20
Magnesium	8499	13190	5000	93.8	13310	5000	96.2	83-118	0.900	20
Nickel	4.569	50.24	50.00	91.3	50.52	50.00	91.9	85-117	0.572	20
Potassium	1123	5948	5000	96.5	5971	5000	96.9	87-115	0.382	20
Selenium	5.000	49.35	50.00	98.1	50.66	50.00	101	80-120	2.62	20
Silver	5.000	47.55	50.00	95.0	47.65	50.00	95.2	85-116	0.208	20
Thallium	2.000	41.75	50.00	83.5	42.49	50.00	85.0	82-116	1.76	20
Vanadium	1.125	48.94	50.00	95.6	49.03	50.00	95.8	86-115	0.171	20
Manganese	203.5	239.2	50.00	71.5	237.5	50.00	68.0	87-115	0.730	20
Sodium	180200	179500	5000	-14.1	178000	5000	-43.0	85-117	0.809	20

ALS Houston, US Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Date Analyzed: 26-Jun-2024 12:20
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Matrix Spike: HS24060694-01MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	2.952	117.3	100.0	114	114.3	100.0	111	84-117	2.55	20
Zinc	4.939	118.7	100.0	114	117.5	100.0	113	83-119	1.03	20

ALS Houston, US

Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Date Analyzed: 25-Jun-2024 17:01
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Antimony	0	93.99	100	94	80-120
Arsenic	0	94.35	100	94	80-120
Barium	199.4	282.3	100	83	80-120
Beryllium	0	92.6	100	93	80-120
Cadmium	0	92.98	100	93	80-120
Chromium	1.75	92.46	100	91	80-120
Cobalt	0.901	92.98	100	92	80-120
Copper	1.14	92.5	100	91	80-120
Iron	221.7	9522	10000	93	80-120
Lead	0	93.22	100	93	80-120
Magnesium	8499	17230	10000	87	80-120
Nickel	4.569	93.41	100	89	80-120
Potassium	1123	10320	10000	92	80-120
Selenium	0	93.83	100	94	80-120
Silver	0	94.78	100	95	80-120
Thallium	0	93.04	100	93	80-120
Vanadium	1.125	93.18	100	92	80-120
Manganese	203.5	283.8	100	80	80-120
Sodium	180200	180900	10000	7	80-120

ALS Houston, US Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Date Analyzed: 26-Jun-2024 12:23
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	2.952	112.9	100	110	80-120
Zinc	4.939	115.9	100	111	80-120

ALS Houston, US Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Date Analyzed: 24-Jun-2024 14:44
Date Extracted: 24-Jun-2024 09:00
Units: ug/L

Lab Sample ID: LCS-214008 Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.94	99	82-119

ALS Houston, US Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Date Analyzed: 25-Jun-2024 16:49
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: LCS-213798 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	105.2	105	84-117
Antimony	50	48.71	97	85-117
Arsenic	50	47.17	94	84-116
Barium	50	46.74	94	86-114
Beryllium	50	46.51	93	83-121
Cadmium	50	46.53	93	87-115
Calcium	5000	4767	95	87-118
Chromium	50	47.17	94	85-116
Cobalt	50	47.62	95	86-115
Copper	50	47.83	96	85-118
Iron	5000	4812	96	87-118
Lead	50	46.43	93	88-115
Magnesium	5000	4807	96	83-118
Manganese	50	49.1	98	87-115
Nickel	50	48.37	97	85-117
Potassium	5000	4747	95	87-115
Selenium	50	47.19	94	80-120
Silver	50	47.93	96	85-116
Sodium	5000	4680	94	85-117
Vanadium	50	46.34	93	86-115
Zinc	50	55.09	110	83-119
Thallium	50	44.52	89	82-116

ALS Houston, US Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Date Analyzed: 25-Jun-2024 16:52
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	199.4		198.4		1	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	16200		16250		0	
Chromium	1.75	J	0	U	0	
Cobalt	0.901	J	0.932	J	3	
Copper	1.14	J	0	U	0	
Iron	221.7		228.5	J	3	
Lead	0	U	0	U	0	
Magnesium	8499		8733		3	
Nickel	4.569	J	4.624	J	1	
Potassium	1123		1108		1	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	
Thallium	0	U	0	U	0	
Vanadium	1.125	J	0	U	0	
Manganese	203.5		206.4		1	
Sodium	180200		181900		1	

ALS Houston, US Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060899

Date Analyzed: 26-Jun-2024 12:15
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01SD
Client Sample ID:

Analysis Method: SW6020A

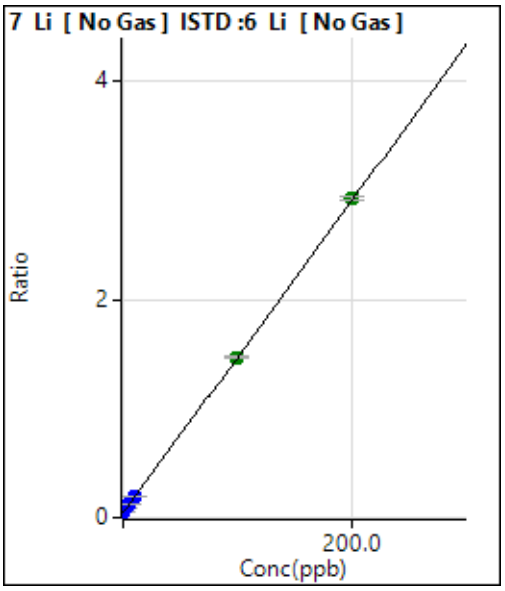
Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	2.952	J	0	U	0	
Zinc	4.939	J	0	U	0	

Calibration for 218_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	211CALB.d	CAL BLK	6/25/2024 8:21:55 PM
2	212CALS.d	2/10/200	6/25/2024 8:24:25 PM
3	213CALS.d	5/25/500	6/25/2024 8:26:55 PM
4	214CALS.d	10/50/100	6/25/2024 8:29:25 PM
5	215CALS.d	100/500/10K	6/25/2024 8:31:54 PM
6	216CALS.d	200/1000/20K	6/25/2024 8:34:24 PM

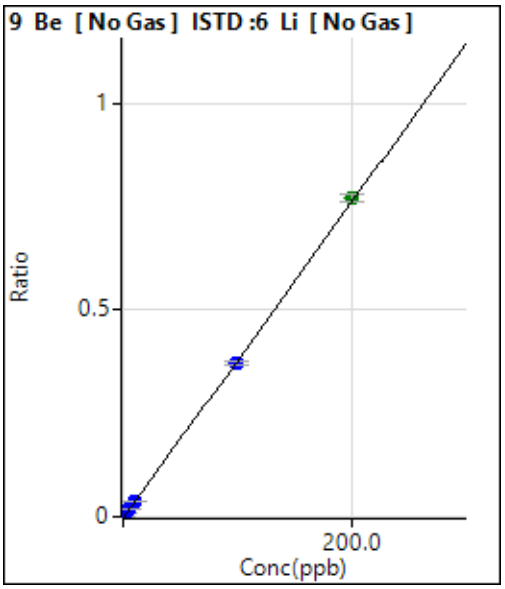
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	84075.92	0.0587	P	0.7	
2	☐	2.000	1.931	122682.61	0.0862	P	0.3	-3.5
3	☐	5.000	4.859	180022.05	0.1281	P	0.7	-2.8
4	☐	10.000	9.705	273098.89	0.1973	P	1.4	-3.0
5	☐	100.000	98.714	1898700.80	1.4688	A	1.9	-1.3
6	☐	200.000	200.662	3626143.70	2.9251	A	1.6	0.3

y = 0.0143 * x + 0.0587
R = 1.0000
DL = 0.08043 ppb
BEC = 4.107 ppb

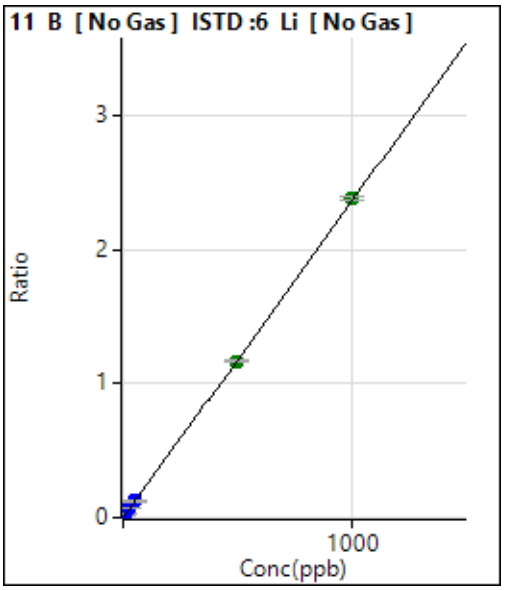
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	216.67	0.0002	P	14.3	
2	☐	2.000	1.859	10337.14	0.0073	P	3.3	-7.0
3	☐	5.000	4.767	25853.50	0.0184	P	0.7	-4.7
4	☐	10.000	9.536	50723.24	0.0366	P	1.8	-4.6
5	☐	100.000	96.834	479238.31	0.3707	P	2.3	-3.2
6	☐	200.000	201.613	956650.56	0.7717	A	2.3	0.8

y = 0.0038 * x + 1.5114E-004
R = 0.9998
DL = 0.01695 ppb
BEC = 0.03949 ppb

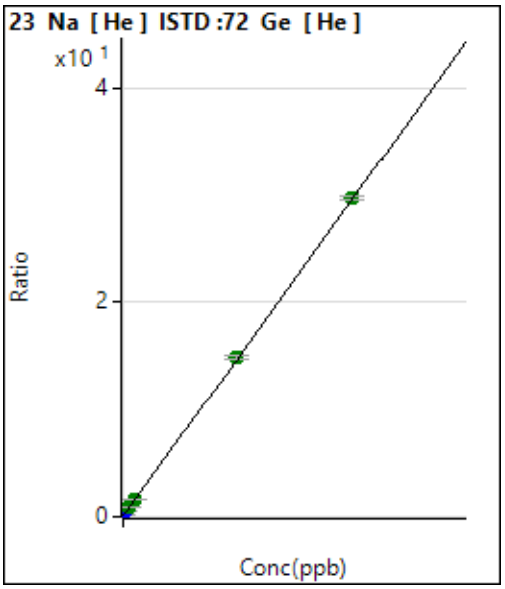
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15015.07	0.0105	P	1.8	
2	☐	10.000	9.482	46721.45	0.0328	P	1.5	-5.2
3	☐	25.000	23.300	91983.59	0.0654	P	0.9	-6.8
4	☐	50.000	47.271	168848.65	0.1220	P	1.9	-5.5
5	☐	500.000	490.205	1508411.28	1.1669	A	1.4	-2.0
6	☐	1000.000	1005.082	2952235.27	2.3815	A	1.5	0.5

y = 0.0024 * x + 0.0105
R = 0.9999
DL = 0.2367 ppb
BEC = 4.441 ppb

Weight: <None>
Min Conc: <None>

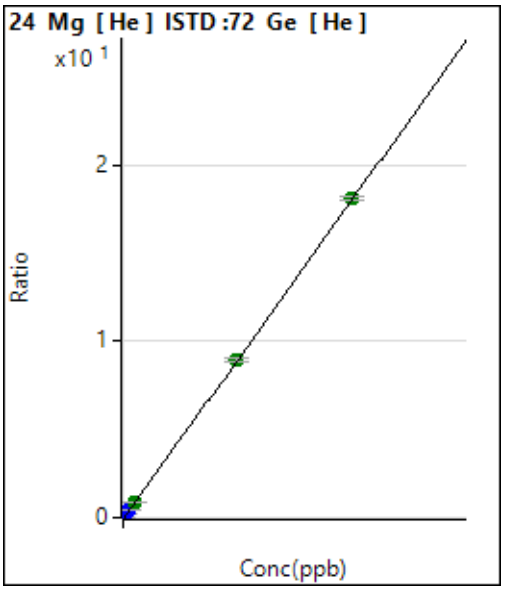


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246522.24	0.2094	P	0.5	
2	☐	200.000	177.215	556826.78	0.4703	P	1.5	-11.4
3	☐	500.000	468.746	1061610.14	0.8997	A	1.9	-6.3
4	☐	1000.000	979.302	1920986.32	1.6515	A	2.2	-2.1
5	☐	10000.00	9928.841	16887564.33	14.8311	A	2.6	-0.7
6	☐	20000.00	20037.62	32998102.01	29.7179	A	0.6	0.2

y = 0.0015 * x + 0.2094
R = 1.0000
DL = 1.963 ppb
BEC = 142.2 ppb

Weight: <None>
Min Conc: <None>

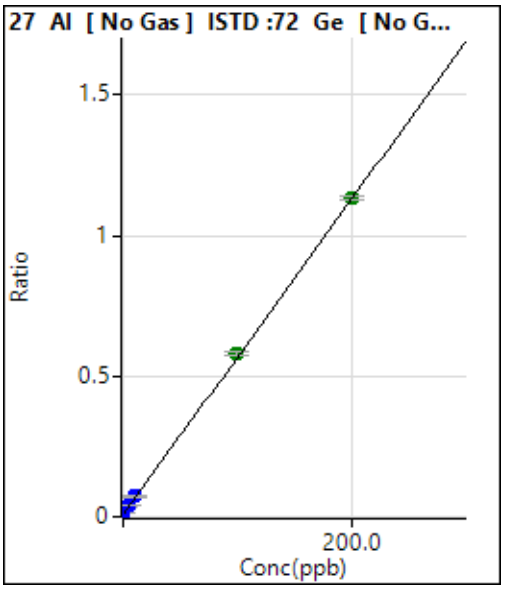
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1023.39	0.0009	P	13.8	
2	☐	200.000	190.730	205362.23	0.1735	P	1.1	-4.6
3	☐	500.000	478.958	512473.70	0.4343	P	2.0	-4.2
4	☐	1000.000	997.121	1050512.09	0.9032	A	2.5	-0.3
5	☐	10000.00	9944.357	10247370.68	8.9994	A	2.3	-0.6
6	☐	20000.00	20028.58	20125391.79	18.1246	A	0.9	0.1

y = 9.0489E-004 * x + 8.6956E-004
R = 1.0000
DL = 0.3972 ppb
BEC = 0.961 ppb

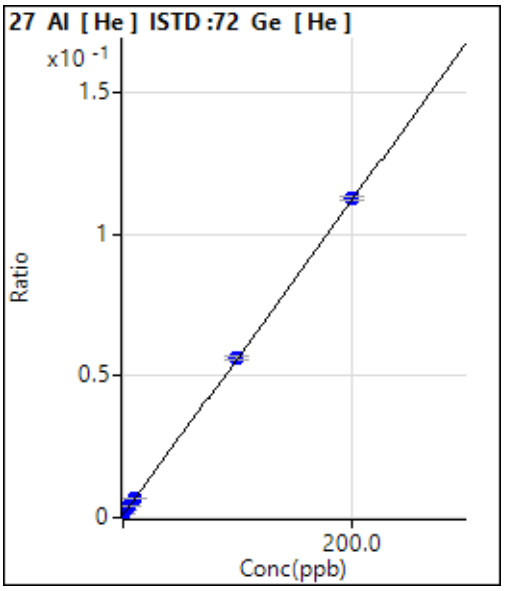
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55318.96	0.0135	P	1.8	
2	☐	2.000	3.183	129067.56	0.0314	P	1.6	59.1
3	☐	5.000	5.171	174084.36	0.0425	P	2.9	3.4
4	☐	10.000	10.458	292011.10	0.0722	P	1.5	4.6
5	☐	100.000	100.581	2240726.01	0.5778	A	2.3	0.6
6	☐	200.000	199.670	4346690.14	1.1337	A	0.9	-0.2

y = 0.0056 * x + 0.0135
R = 1.0000
DL = 0.131 ppb
BEC = 2.405 ppb

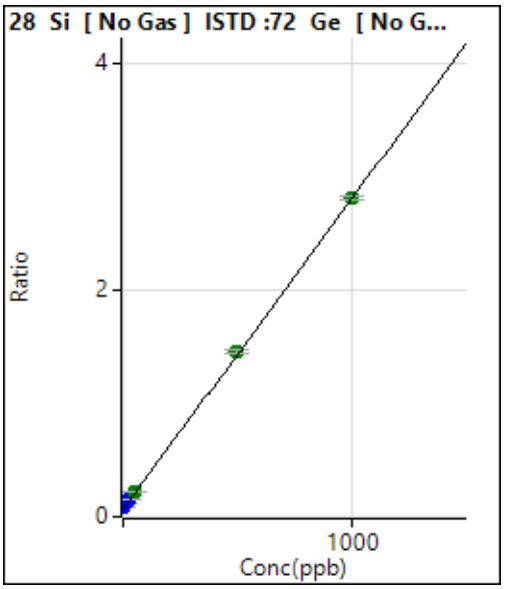
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.13	0.0014	P	6.8	
2	☐	2.000	2.668	3463.82	0.0029	P	1.0	33.4
3	☐	5.000	5.013	4990.97	0.0042	P	3.5	0.3
4	☐	10.000	10.037	8162.51	0.0070	P	2.8	0.4
5	☐	100.000	99.145	64330.56	0.0565	P	2.0	-0.9
6	☐	200.000	200.418	125172.48	0.1127	P	1.0	0.2

y = 5.5526E-004 * x + 0.0014
R = 1.0000
DL = 0.5323 ppb
BEC = 2.601 ppb

Weight: <None>
Min Conc: <None>

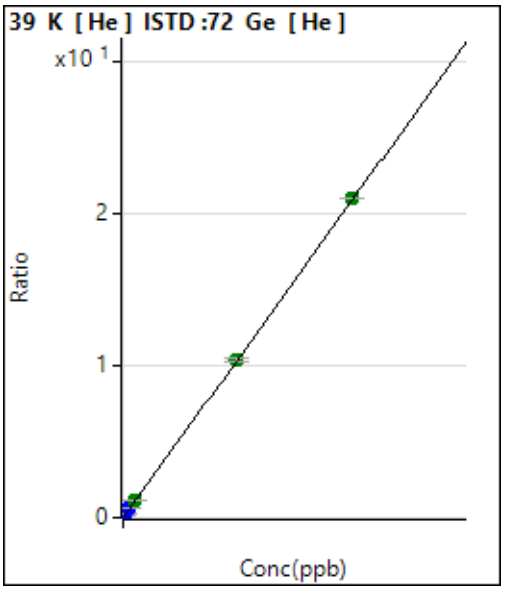


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	332308.51	0.0811	P	0.2	
2	☐	10.000	11.804	466731.36	0.1134	P	1.0	18.0
3	☐	25.000	27.593	641330.07	0.1566	P	0.7	10.4
4	☐	50.000	51.276	895774.07	0.2214	A	1.6	2.6
5	☐	500.000	503.803	5660879.29	1.4598	A	2.7	0.8
6	☐	1000.000	997.952	10781099.42	2.8120	A	1.0	-0.2

y = 0.0027 * x + 0.0811
R = 1.0000
DL = 0.193 ppb
BEC = 29.62 ppb

Weight: <None>
Min Conc: <None>

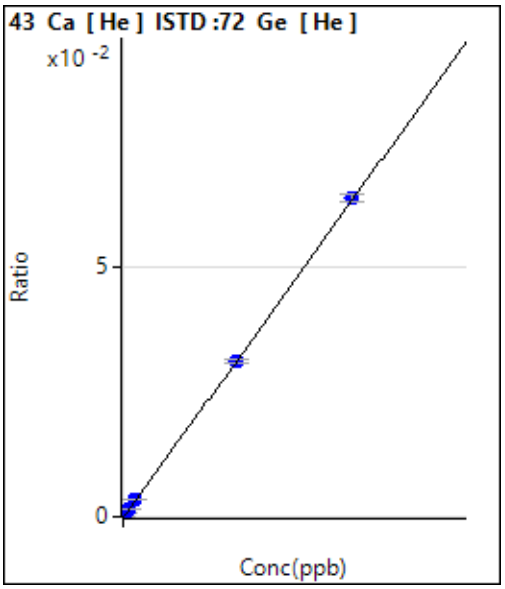
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	116935.82	0.0993	P	0.5	
2	☐	200.000	189.748	351277.07	0.2967	P	1.7	-5.1
3	☐	500.000	480.170	706757.41	0.5989	P	1.2	-4.0
4	☐	1000.000	993.223	1317504.72	1.1327	A	2.1	-0.7
5	☐	10000.00	9867.896	11804115.24	10.3664	A	2.1	-1.3
6	☐	20000.00	20066.98	23293283.82	20.9781	A	0.4	0.3

y = 0.0010 * x + 0.0993
R = 1.0000
DL = 1.34 ppb
BEC = 95.45 ppb

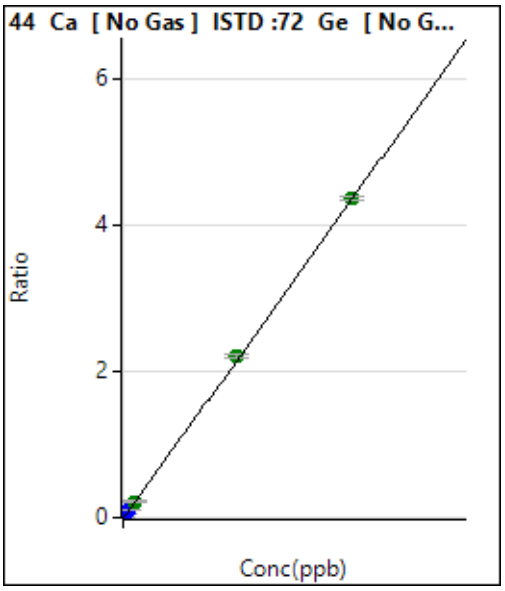
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0000	P	10.4	
2	☐	200.000	206.424	833.37	0.0007	P	6.8	3.2
3	☐	500.000	476.099	1843.51	0.0016	P	6.6	-4.8
4	☐	1000.000	1070.146	4010.65	0.0034	P	5.2	7.0
5	☐	10000.00	9820.201	35595.90	0.0313	P	2.8	-1.8
6	☐	20000.00	20086.92	70940.30	0.0639	P	1.8	0.4

y = 3.1782E-006 * x + 4.8134E-005
R = 0.9999
DL = 4.741 ppb
BEC = 15.14 ppb

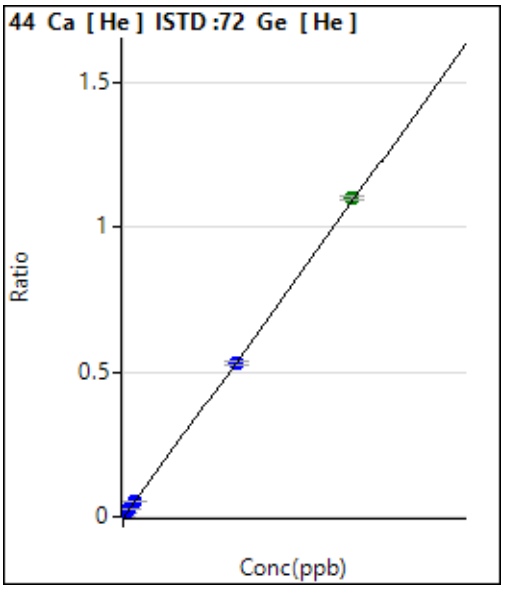
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18676.19	0.0046	P	0.6	
2	☐	200.000	210.423	208174.26	0.0506	P	2.1	5.2
3	☐	500.000	501.435	467758.65	0.1142	P	1.6	0.3
4	☐	1000.000	996.489	900106.37	0.2225	A	1.7	-0.4
5	☐	10000.00	10043.83	8534890.08	2.2009	A	2.5	0.4
6	☐	20000.00	19978.11	16766485.17	4.3732	A	0.9	-0.1

y = 2.1867E-004 * x + 0.0046
R = 1.0000
DL = 0.3469 ppb
BEC = 20.84 ppb

Weight: <None>
Min Conc: <None>

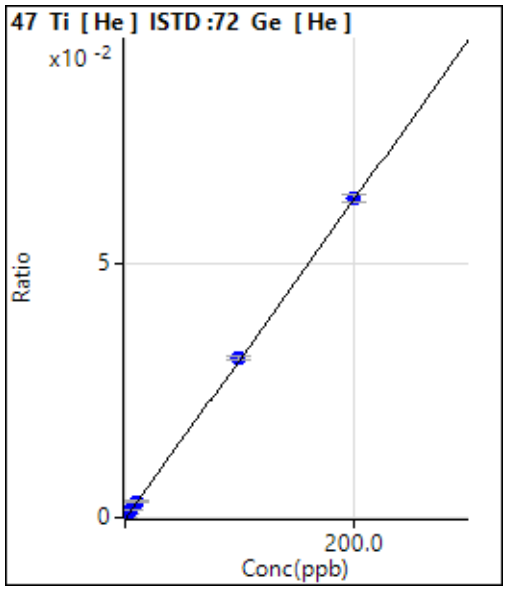


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	736.70	0.0006	P	12.9	
2	☐	200.000	193.391	13243.12	0.0112	P	0.7	-3.3
3	☐	500.000	477.192	31486.01	0.0267	P	1.5	-4.6
4	☐	1000.000	983.759	63210.00	0.0543	P	1.3	-1.6
5	☐	10000.00	9676.944	602399.91	0.5290	P	2.3	-3.2
6	☐	20000.00	20162.97	1223248.71	1.1016	A	1.1	0.8

y = 5.4605E-005 * x + 6.2601E-004
R = 0.9998
DL = 4.436 ppb
BEC = 11.46 ppb

Weight: <None>
Min Conc: <None>

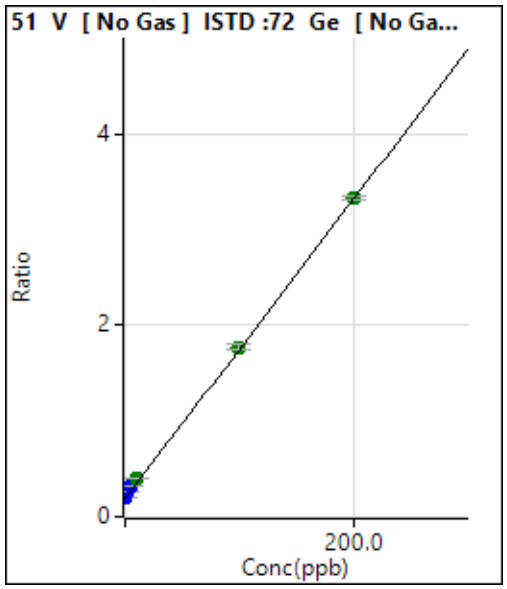
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	1.999	756.70	0.0006	P	12.6	0.0
3	☐	5.000	4.985	1860.16	0.0016	P	2.8	-0.3
4	☐	10.000	10.035	3673.88	0.0032	P	12.3	0.3
5	☐	100.000	99.730	35649.18	0.0313	P	2.6	-0.3
6	☐	200.000	200.134	69751.44	0.0628	P	2.0	0.1

y = 3.1381E-004 * x + 1.1279E-005
R = 1.0000
DL = 0.09338 ppb
BEC = 0.03594 ppb

Weight: <None>
Min Conc: <None>

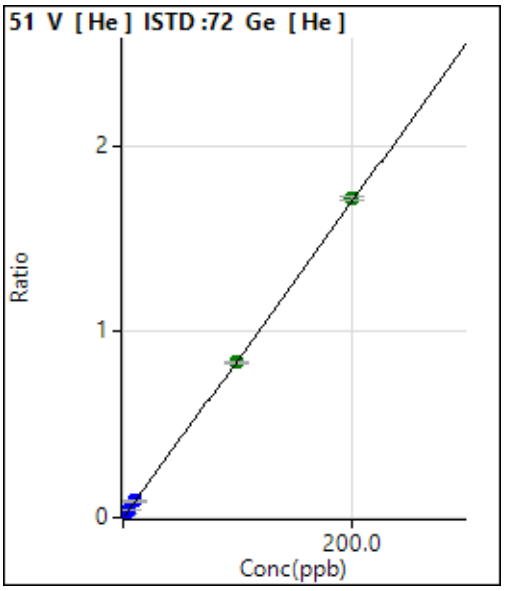


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	845280.58	0.2062	P	3.2	
2	☐	2.000	3.177	1053915.24	0.2560	P	0.6	58.9
3	☐	5.000	7.077	1298931.12	0.3171	P	1.2	41.5
4	☐	10.000	12.926	1654252.48	0.4088	A	0.2	29.3
5	☐	100.000	100.261	6895476.17	1.7781	A	2.5	0.3
6	☐	200.000	199.660	12791592.73	3.3365	A	1.3	-0.2

y = 0.0157 * x + 0.2062
R = 0.9999
DL = 1.28 ppb
BEC = 13.15 ppb

Weight: <None>
Min Conc: <None>

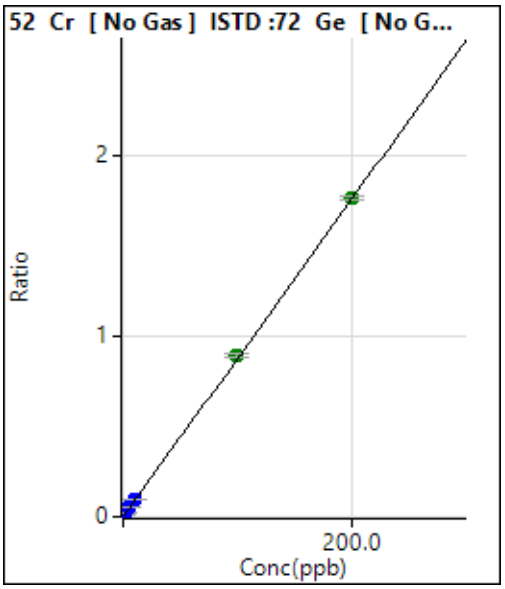
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6242.54	0.0053	P	2.7	
2	☐	2.000	1.895	25369.84	0.0214	P	2.4	-5.3
3	☐	5.000	4.794	54399.52	0.0461	P	2.0	-4.1
4	☐	10.000	9.792	103095.70	0.0886	P	2.0	-2.1
5	☐	100.000	97.338	949375.41	0.8337	A	1.9	-2.7
6	☐	200.000	201.348	1908762.42	1.7190	A	1.2	0.7

y = 0.0085 * x + 0.0053
R = 0.9999
DL = 0.05061 ppb
BEC = 0.623 ppb

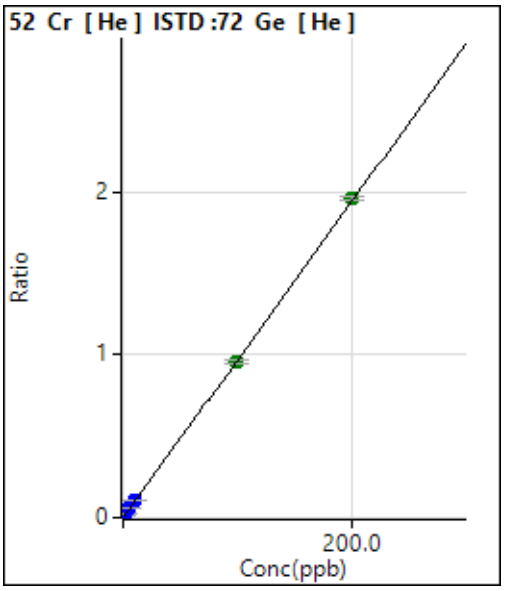
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33624.36	0.0082	P	3.3	
2	☐	2.000	2.042	107555.56	0.0261	P	1.4	2.1
3	☐	5.000	5.164	219274.43	0.0535	P	2.0	3.3
4	☐	10.000	10.159	394049.59	0.0974	P	1.3	1.6
5	☐	100.000	100.345	3448218.39	0.8892	A	2.2	0.3
6	☐	200.000	199.815	6756917.40	1.7624	A	1.4	-0.1

y = 0.0088 * x + 0.0082
R = 1.0000
DL = 0.09152 ppb
BEC = 0.9342 ppb

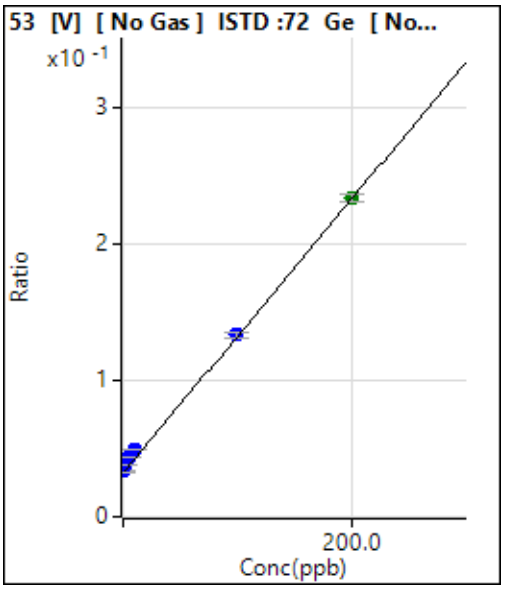
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12155.51	0.0103	P	2.3	
2	☐	2.000	1.877	33771.53	0.0285	P	1.2	-6.2
3	☐	5.000	4.816	67289.88	0.0570	P	3.2	-3.7
4	☐	10.000	9.900	123692.24	0.1064	P	2.4	-1.0
5	☐	100.000	97.672	1090534.12	0.9577	A	2.0	-2.3
6	☐	200.000	201.175	2178279.24	1.9617	A	1.6	0.6

y = 0.0097 * x + 0.0103
R = 0.9999
DL = 0.07385 ppb
BEC = 1.064 ppb

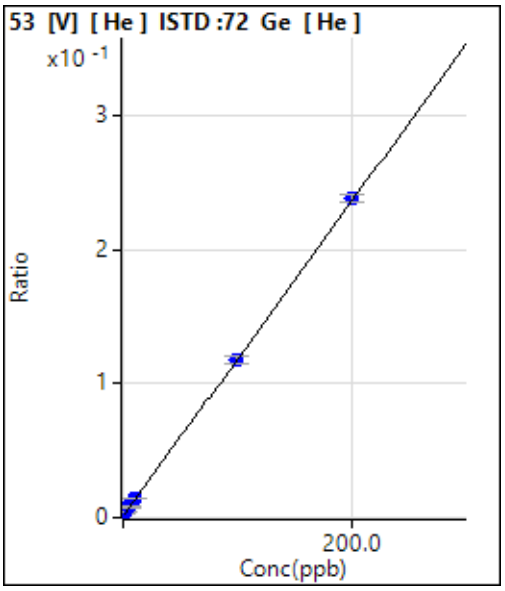
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	137235.88	0.0335	P	3.4	
2	☐	2.000	4.862	157899.77	0.0384	P	0.8	143.1
3	☐	5.000	9.956	178035.79	0.0435	P	1.4	99.1
4	☐	10.000	15.962	200268.18	0.0495	P	0.3	59.6
5	☐	100.000	99.725	517971.37	0.1336	P	2.8	-0.3
6	☐	200.000	199.687	896711.89	0.2339	A	2.1	-0.2

y = 0.0010 * x + 0.0335
R = 0.9996
DL = 3.37 ppb
BEC = 33.35 ppb

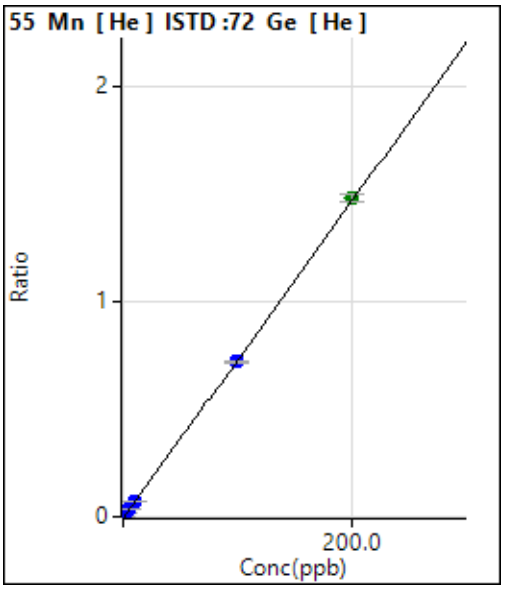
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2870.36	0.0024	P	10.7	
2	☐	2.000	1.972	5624.56	0.0048	P	5.0	-1.4
3	☐	5.000	4.713	9400.03	0.0080	P	7.7	-5.7
4	☐	10.000	9.989	16480.06	0.0142	P	0.9	-0.1
5	☐	100.000	98.088	133910.12	0.1176	P	4.0	-1.9
6	☐	200.000	200.964	264743.79	0.2384	P	1.9	0.5

y = 0.0012 * x + 0.0024
R = 0.9999
DL = 0.6662 ppb
BEC = 2.077 ppb

Weight: <None>
Min Conc: <None>

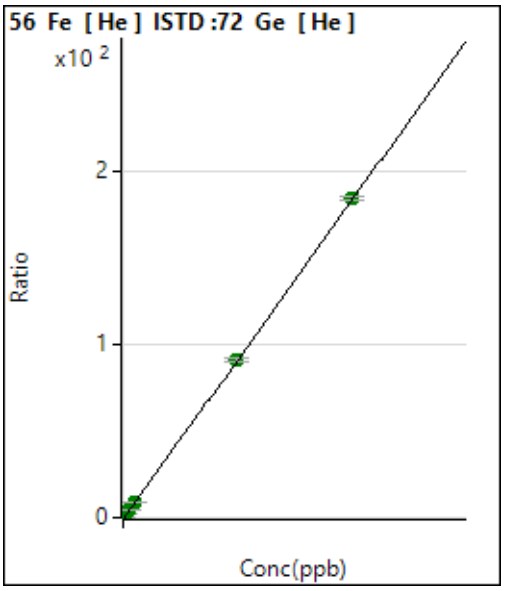


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	570.02	0.0005	P	11.1	
2	☐	2.000	1.916	17304.38	0.0146	P	2.2	-4.2
3	☐	5.000	4.783	42208.12	0.0358	P	3.5	-4.3
4	☐	10.000	9.867	85211.79	0.0733	P	2.9	-1.3
5	☐	100.000	97.664	820889.96	0.7209	P	2.1	-2.3
6	☐	200.000	201.181	1648454.09	1.4845	A	1.8	0.6

y = 0.0074 * x + 4.8393E-004
R = 0.9999
DL = 0.02178 ppb
BEC = 0.0656 ppb

Weight: <None>
Min Conc: <None>

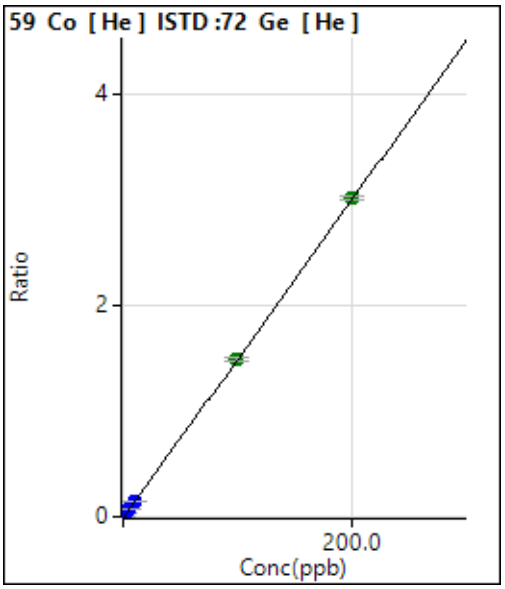
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18299.20	0.0155	P	2.8	
2	☐	200.000	192.844	2116630.39	1.7878	A	1.2	-3.6
3	☐	500.000	485.074	5279025.03	4.4735	A	1.8	-3.0
4	☐	1000.000	994.661	10650626.92	9.1566	A	1.7	-0.5
5	☐	10000.00	9920.174	103828568.4	91.1837	A	2.3	-0.8
6	☐	20000.00	20040.62	204529543.6	184.192	A	1.3	0.2

y = 0.0092 * x + 0.0155
R = 1.0000
DL = 0.1424 ppb
BEC = 1.691 ppb

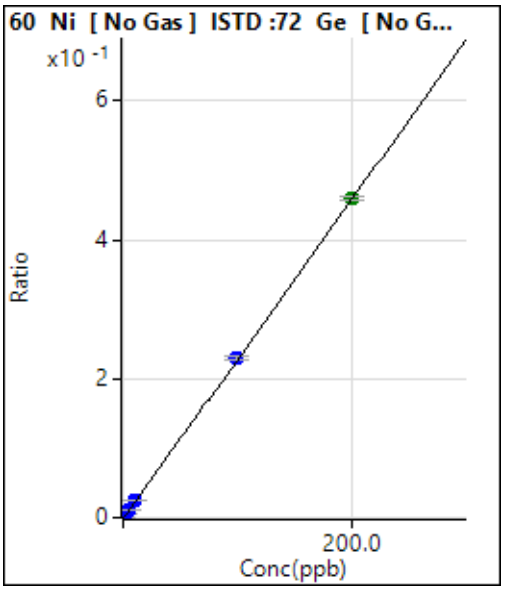
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0006	P	14.8	
2	☐	2.000	1.894	34463.48	0.0291	P	0.9	-5.3
3	☐	5.000	4.963	88959.04	0.0754	P	2.9	-0.7
4	☐	10.000	9.944	175054.83	0.1505	P	1.6	-0.6
5	☐	100.000	99.239	1704610.91	1.4970	A	2.6	-0.8
6	☐	200.000	200.385	3355907.55	3.0222	A	1.5	0.2

y = 0.0151 * x + 5.5189E-004
R = 1.0000
DL = 0.01627 ppb
BEC = 0.0366 ppb

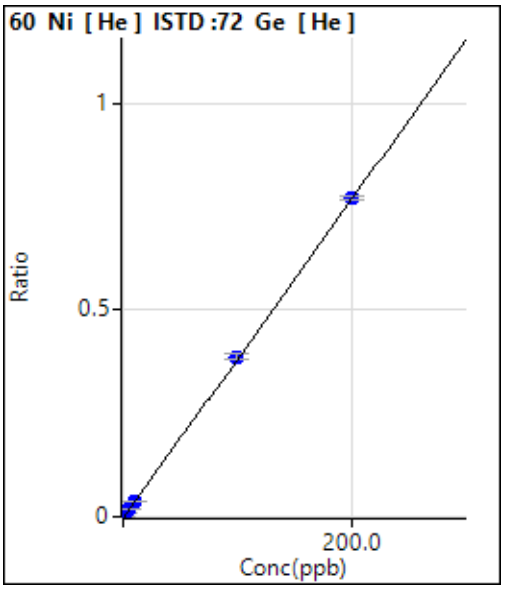
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1486.78	0.0004	P	3.2	
2	☐	2.000	2.050	20896.21	0.0051	P	5.7	2.5
3	☐	5.000	5.136	49860.20	0.0122	P	2.3	2.7
4	☐	10.000	10.239	96737.59	0.0239	P	0.3	2.4
5	☐	100.000	100.334	896167.85	0.2311	P	2.2	0.3
6	☐	200.000	199.817	1763000.29	0.4599	A	1.5	-0.1

y = 0.0023 * x + 3.6277E-004
R = 1.0000
DL = 0.01528 ppb
BEC = 0.1578 ppb

Weight: <None>
Min Conc: <None>

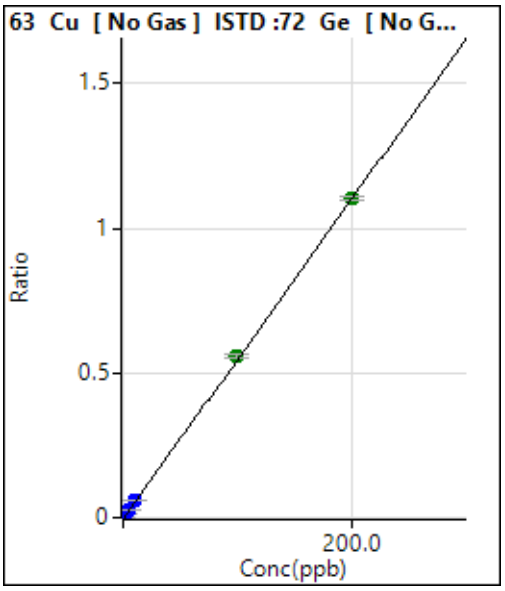


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	336.68	0.0003	P	6.9	
2	☐	2.000	1.950	9233.30	0.0078	P	1.8	-2.5
3	☐	5.000	5.048	23280.00	0.0197	P	3.0	1.0
4	☐	10.000	10.133	45733.01	0.0393	P	0.6	1.3
5	☐	100.000	100.173	439681.75	0.3861	P	3.2	0.2
6	☐	200.000	199.906	855346.16	0.7703	P	1.2	0.0

y = 0.0039 * x + 2.8601E-004
R = 1.0000
DL = 0.01536 ppb
BEC = 0.07425 ppb

Weight: <None>
Min Conc: <None>

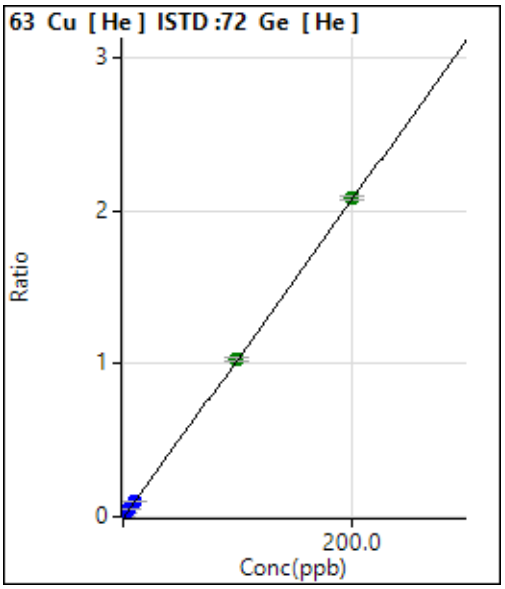
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1923.51	0.0005	P	4.6	
2	☐	2.000	2.115	50077.92	0.0122	P	1.8	5.7
3	☐	5.000	5.165	118910.60	0.0290	P	1.9	3.3
4	☐	10.000	10.437	235447.52	0.0582	P	0.6	4.4
5	☐	100.000	100.938	2166606.01	0.5587	A	1.8	0.9
6	☐	200.000	199.504	4231617.02	1.1037	A	1.5	-0.2

y = 0.0055 * x + 4.6936E-004
R = 1.0000
DL = 0.01178 ppb
BEC = 0.08487 ppb

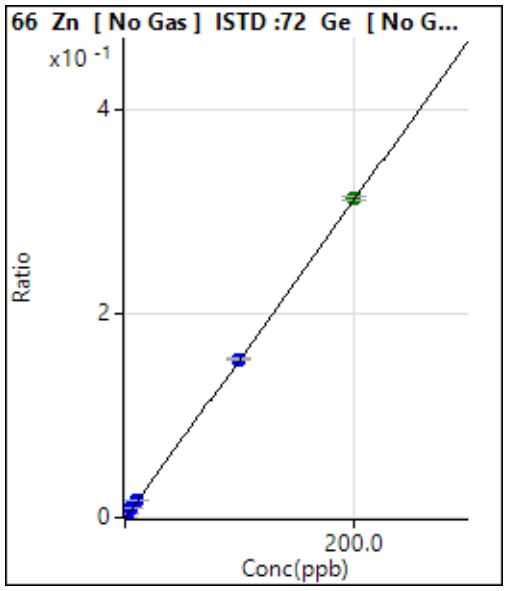
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.37	0.0007	P	3.1	
2	☐	2.000	1.943	24775.89	0.0209	P	0.9	-2.8
3	☐	5.000	4.891	60871.55	0.0516	P	2.3	-2.2
4	☐	10.000	10.000	121805.49	0.1047	P	1.6	0.0
5	☐	100.000	99.335	1177091.47	1.0338	A	2.8	-0.7
6	☐	200.000	200.336	2314158.40	2.0841	A	0.9	0.2

y = 0.0104 * x + 7.1626E-004
R = 1.0000
DL = 0.006386 ppb
BEC = 0.06887 ppb

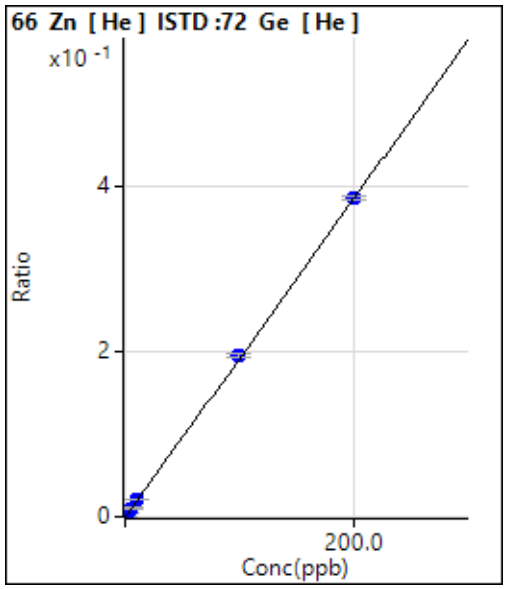
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3040.38	0.0007	P	2.4	
2	☐	2.000	2.388	18409.32	0.0045	P	1.4	19.4
3	☐	5.000	5.169	36111.22	0.0088	P	0.8	3.4
4	☐	10.000	10.015	66299.77	0.0164	P	2.5	0.2
5	☐	100.000	99.235	604032.56	0.1558	P	1.8	-0.8
6	☐	200.000	200.373	1202846.96	0.3137	A	1.5	0.2

y = 0.0016 * x + 7.4167E-004
R = 1.0000
DL = 0.03428 ppb
BEC = 0.4748 ppb

Weight: <None>
Min Conc: <None>

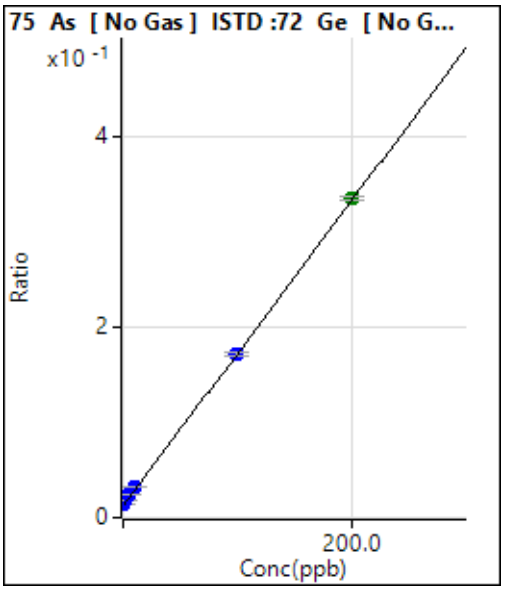


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.07	0.0010	P	4.0	
2	☐	2.000	2.396	6645.07	0.0056	P	5.2	19.8
3	☐	5.000	4.916	12369.09	0.0105	P	1.4	-1.7
4	☐	10.000	10.195	24051.38	0.0207	P	2.3	1.9
5	☐	100.000	100.670	222537.52	0.1954	P	1.8	0.7
6	☐	200.000	199.654	429295.78	0.3866	P	0.7	-0.2

y = 0.0019 * x + 9.8522E-004
R = 1.0000
DL = 0.06098 ppb
BEC = 0.5101 ppb

Weight: <None>
Min Conc: <None>

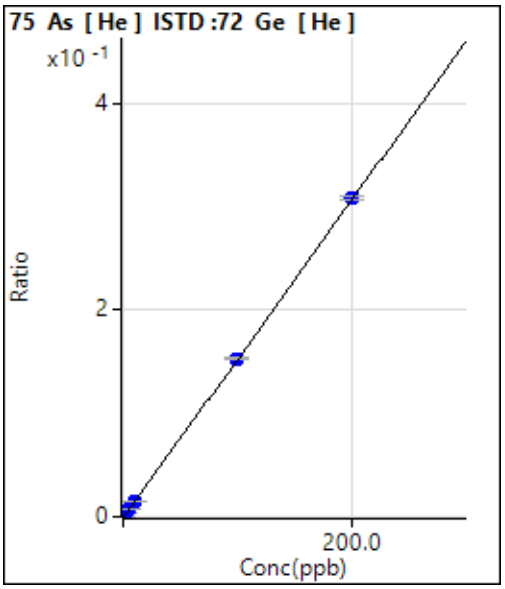
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	57748.96	0.0141	P	1.7	
2	☐	2.000	2.889	77077.08	0.0187	P	2.0	44.5
3	☐	5.000	6.260	98812.46	0.0241	P	0.7	25.2
4	☐	10.000	11.511	131676.97	0.0325	P	1.8	15.1
5	☐	100.000	98.892	669531.35	0.1726	P	2.4	-1.1
6	☐	200.000	200.438	1286103.57	0.3355	A	1.7	0.2

y = 0.0016 * x + 0.0141
R = 0.9999
DL = 0.4556 ppb
BEC = 8.786 ppb

Weight: <None>
Min Conc: <None>

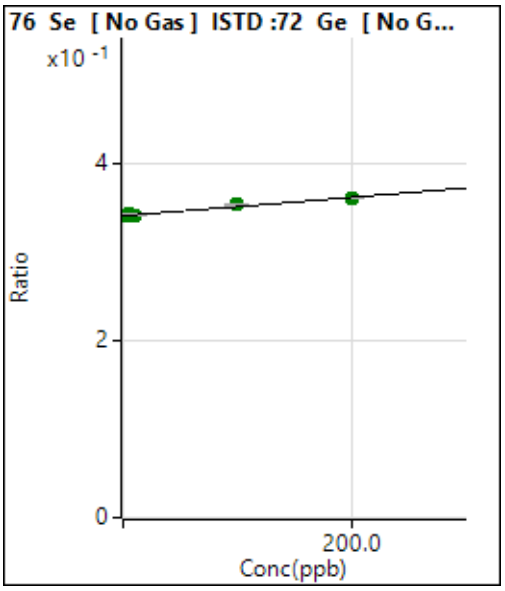


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	384.45	0.0003	P	8.6	
2	☐	2.000	1.903	3849.45	0.0033	P	1.8	-4.9
3	☐	5.000	4.990	9439.98	0.0080	P	1.2	-0.2
4	☐	10.000	9.800	17906.18	0.0154	P	2.2	-2.0
5	☐	100.000	99.215	174069.08	0.1529	P	1.8	-0.8
6	☐	200.000	200.404	342487.31	0.3084	P	0.7	0.2

y = 0.0015 * x + 3.2639E-004
R = 1.0000
DL = 0.05504 ppb
BEC = 0.2123 ppb

Weight: <None>
Min Conc: <None>

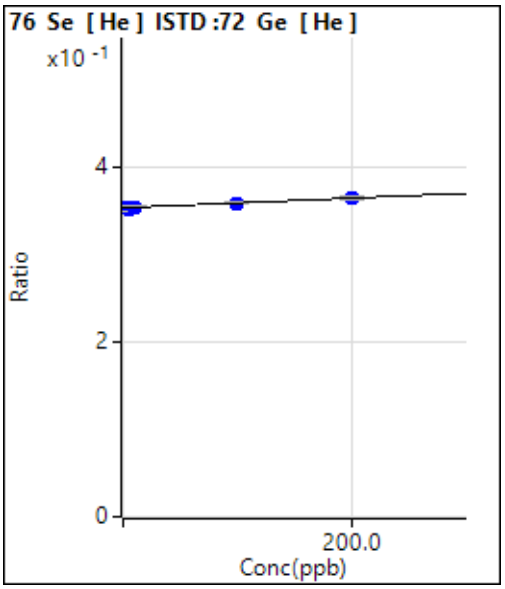
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1394924.09	0.3403	A	0.4	
2	☐	2.000	11.483	1406012.27	0.3415	A	0.6	474.2
3	☐	5.000	17.815	1401568.31	0.3422	A	0.4	256.3
4	☐	10.000	11.262	1381775.81	0.3415	A	0.4	12.6
5	☐	100.000	122.450	1369788.31	0.3532	A	0.5	22.4
6	☐	200.000	188.297	1380678.10	0.3601	A	0.3	-5.9

y = 1.0523E-004 * x + 0.3403
R = 0.9901
DL = 35.26 ppb
BEC = 3234 ppb

Weight: <None>
Min Conc: <None>

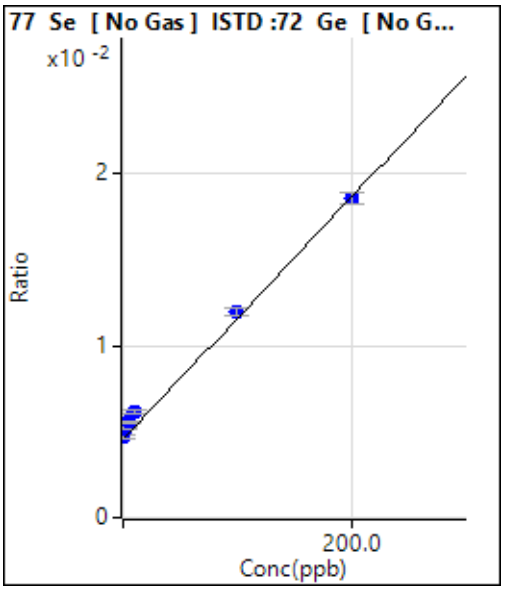


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	415837.52	0.3532	P	1.9	
2	☐	2.000	5.576	418439.47	0.3535	P	0.7	178.8
3	☐	5.000	-42.936	413916.10	0.3508	P	1.1	-958.7
4	☐	10.000	17.797	411977.18	0.3542	P	0.9	78.0
5	☐	100.000	99.665	408551.40	0.3588	P	0.7	-0.3
6	☐	200.000	200.940	404654.04	0.3644	P	0.8	0.5

y = 5.6107E-005 * x + 0.3532
R = 0.9736
DL = 359.6 ppb
BEC = 6295 ppb

Weight: <None>
Min Conc: <None>

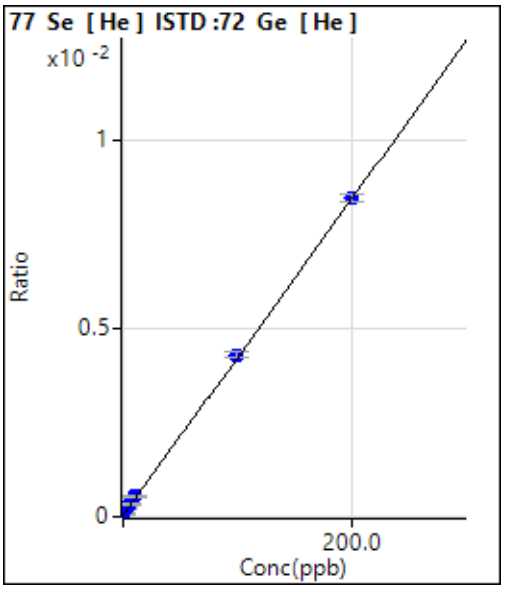
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19157.18	0.0047	P	4.3	
2	☐	2.000	7.500	21410.47	0.0052	P	1.3	275.0
3	☐	5.000	12.322	22692.50	0.0055	P	2.2	146.4
4	☐	10.000	20.557	24759.52	0.0061	P	4.0	105.6
5	☐	100.000	103.342	46328.95	0.0119	P	3.3	3.3
6	☐	200.000	197.563	71229.20	0.0186	P	3.2	-1.2

y = 7.0384E-005 * x + 0.0047
R = 0.9990
DL = 8.612 ppb
BEC = 66.39 ppb

Weight: <None>
Min Conc: <None>

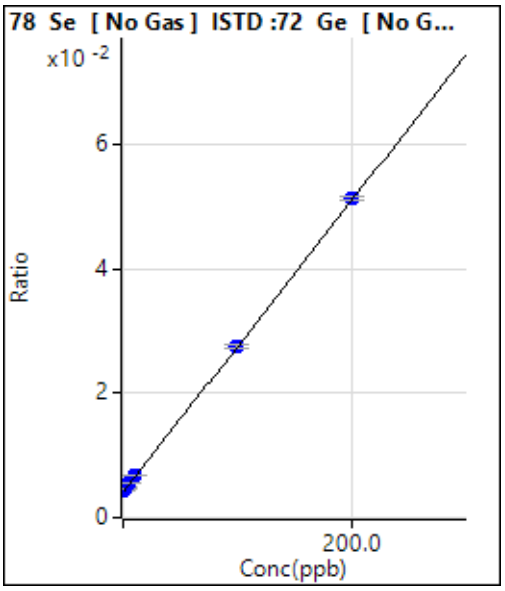


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	39.9	
2	☐	2.000	3.545	266.68	0.0002	P	21.7	77.3
3	☐	5.000	5.708	373.35	0.0003	P	15.5	14.2
4	☐	10.000	11.287	640.03	0.0006	P	8.9	12.9
5	☐	100.000	100.505	4894.31	0.0043	P	3.8	0.5
6	☐	200.000	199.650	9396.77	0.0085	P	2.0	-0.2

y = 4.2009E-005 * x + 7.6425E-005
R = 1.0000
DL = 2.177 ppb
BEC = 1.819 ppb

Weight: <None>
Min Conc: <None>

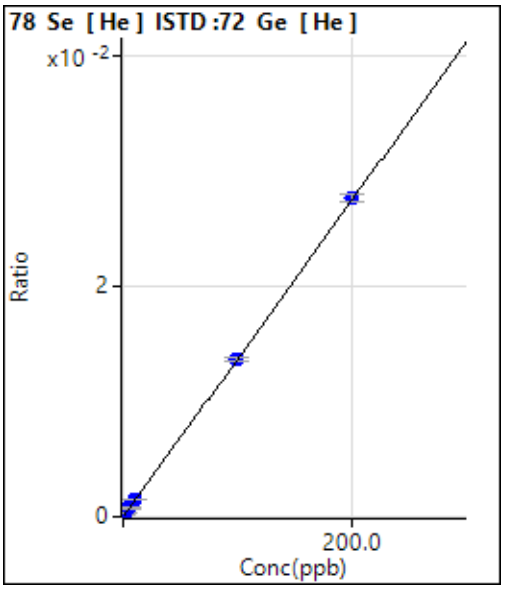
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17875.30	0.0044	P	1.8	
2	☐	2.000	1.741	19631.10	0.0048	P	1.8	-12.9
3	☐	5.000	4.799	22468.77	0.0055	P	0.9	-4.0
4	☐	10.000	10.086	27210.80	0.0067	P	0.6	0.9
5	☐	100.000	99.078	106987.36	0.0276	P	2.4	-0.9
6	☐	200.000	200.464	196896.55	0.0514	P	1.2	0.2

y = 2.3444E-004 * x + 0.0044
R = 1.0000
DL = 1.015 ppb
BEC = 18.6 ppb

Weight: <None>
Min Conc: <None>

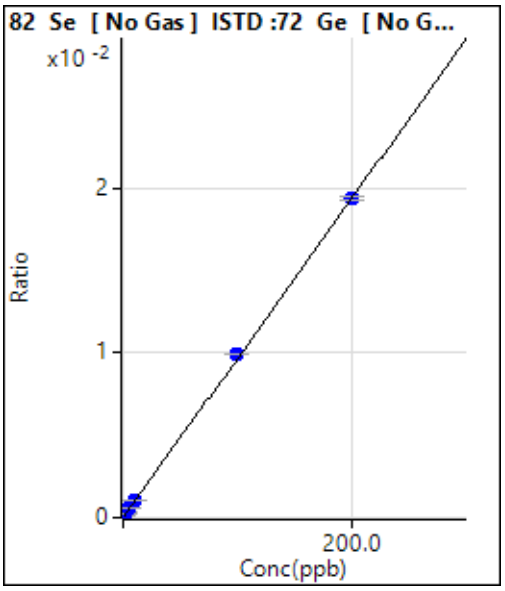


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0001	P	3.0	
2	☐	2.000	1.967	461.34	0.0004	P	6.9	-1.6
3	☐	5.000	4.745	910.03	0.0008	P	6.0	-5.1
4	☐	10.000	9.951	1730.78	0.0015	P	3.7	-0.5
5	☐	100.000	98.745	15602.27	0.0137	P	2.4	-1.3
6	☐	200.000	200.637	30777.30	0.0277	P	2.2	0.3

y = 1.3756E-004 * x + 1.1890E-004
R = 1.0000
DL = 0.0789 ppb
BEC = 0.8644 ppb

Weight: <None>
Min Conc: <None>

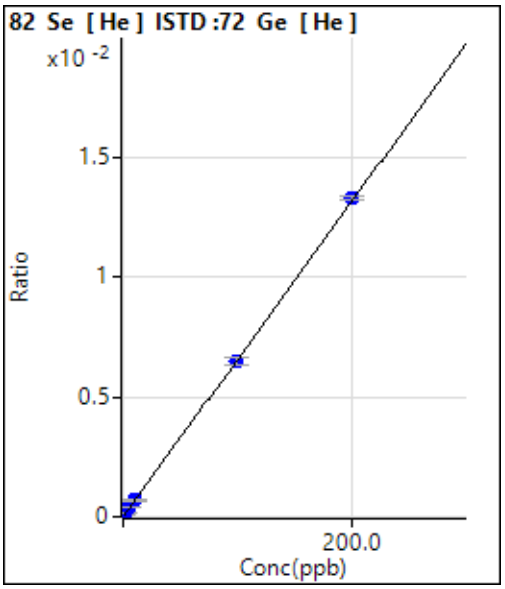
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	5.1	
2	☐	2.000	1.873	1173.40	0.0003	P	13.4	-6.4
3	☐	5.000	5.311	2530.28	0.0006	P	0.9	6.2
4	☐	10.000	10.100	4374.11	0.0011	P	3.0	1.0
5	☐	100.000	101.619	38521.55	0.0099	P	0.2	1.6
6	☐	200.000	199.179	74255.89	0.0194	P	0.8	-0.4

y = 9.6719E-005 * x + 1.0410E-004
R = 1.0000
DL = 0.1647 ppb
BEC = 1.076 ppb

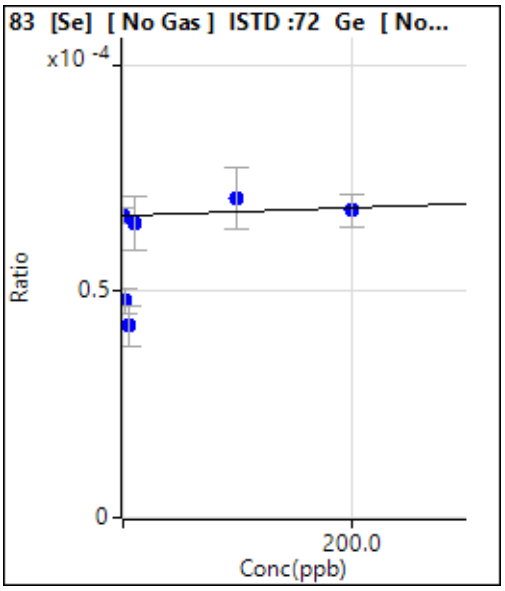
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	37.1	
2	☐	2.000	1.234	176.67	0.0001	P	10.3	-38.3
3	☐	5.000	5.282	490.02	0.0004	P	9.9	5.6
4	☐	10.000	9.848	833.37	0.0007	P	10.6	-1.5
5	☐	100.000	97.429	7378.80	0.0065	P	5.2	-2.6
6	☐	200.000	201.294	14784.92	0.0133	P	1.5	0.6

y = 6.5812E-005 * x + 6.7852E-005
R = 0.9999
DL = 1.148 ppb
BEC = 1.031 ppb

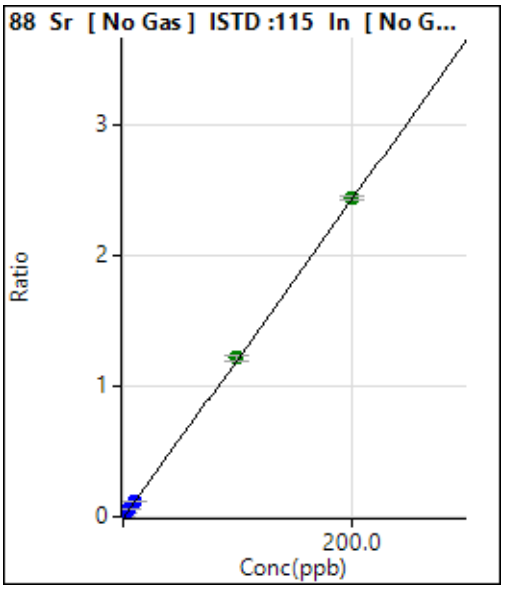
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0001	P	4.8	
2	☐	2.000	-2125.11	196.67	0.0000	P	11.5	-106356.
3	☐	5.000	-2745.31	173.34	0.0000	P	21.6	-55006.2
4	☐	10.000	-176.403	263.34	0.0001	P	18.2	-1864.0
5	☐	100.000	433.320	273.34	0.0001	P	18.8	333.3
6	☐	200.000	132.689	260.01	0.0001	P	10.7	-33.7

y = 8.8770E-009 * x + 6.6668E-005
R = 0.5250
DL = 1083 ppb
BEC = 7510 ppb

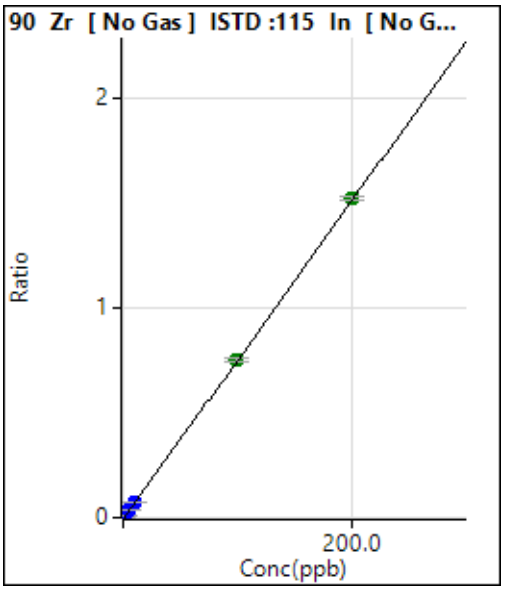
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3467.18	0.0006	P	8.1	
2	☐	2.000	1.989	134213.36	0.0248	P	1.5	-0.6
3	☐	5.000	4.841	323450.76	0.0596	P	1.4	-3.2
4	☐	10.000	9.592	634164.55	0.1174	P	1.7	-4.1
5	☐	100.000	99.563	6249461.99	1.2123	A	3.1	-0.4
6	☐	200.000	200.243	12414274.82	2.4376	A	1.0	0.1

y = 0.0122 * x + 6.3423E-004
R = 1.0000
DL = 0.01262 ppb
BEC = 0.05211 ppb

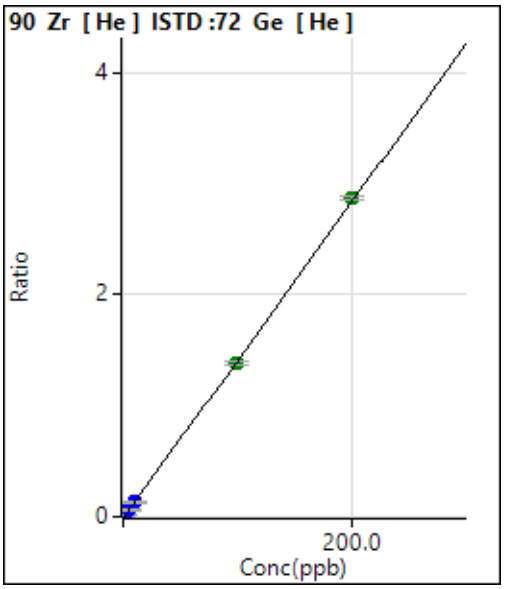
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1356.76	0.0002	P	12.9	
2	☐	2.000	1.645	68898.79	0.0127	P	1.9	-17.8
3	☐	5.000	4.362	181428.50	0.0334	P	0.6	-12.8
4	☐	10.000	9.175	378157.39	0.0700	P	1.4	-8.3
5	☐	100.000	98.724	3869658.69	0.7507	A	2.9	-1.3
6	☐	200.000	200.699	7770539.05	1.5258	A	1.1	0.3

y = 0.0076 * x + 2.4823E-004
R = 1.0000
DL = 0.01266 ppb
BEC = 0.03266 ppb

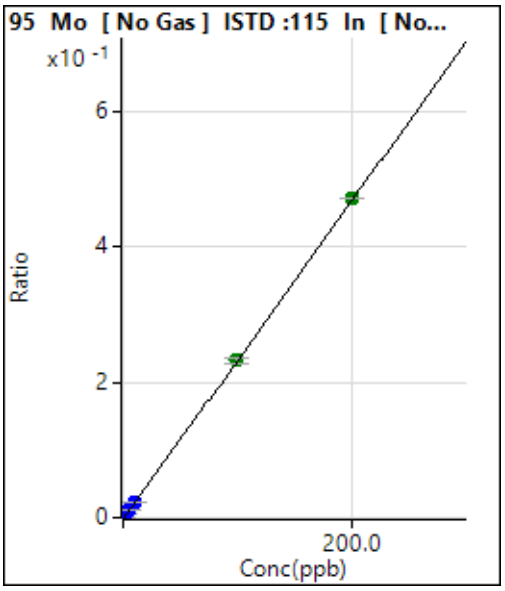
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1680.13	0.0014	P	4.9	
2	☐	2.000	1.571	28176.43	0.0238	P	2.1	-21.5
3	☐	5.000	4.180	71934.31	0.0610	P	2.1	-16.4
4	☐	10.000	9.080	152082.92	0.1307	P	2.7	-9.2
5	☐	100.000	96.884	1572687.27	1.3812	A	2.7	-3.1
6	☐	200.000	201.629	3190047.98	2.8729	A	1.6	0.8

y = 0.0142 * x + 0.0014
R = 0.9998
DL = 0.01476 ppb
BEC = 0.1002 ppb

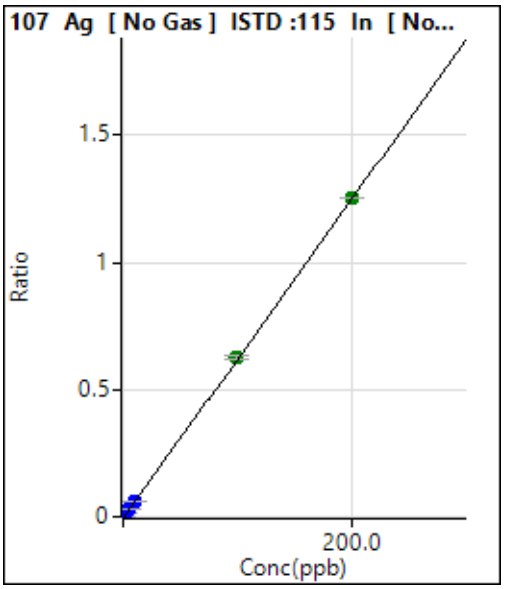
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0000	P	45.6	
2	☐	2.000	1.982	25354.24	0.0047	P	3.6	-0.9
3	☐	5.000	4.844	61999.25	0.0114	P	1.9	-3.1
4	☐	10.000	9.866	125420.09	0.0232	P	2.4	-1.3
5	☐	100.000	98.611	1194393.78	0.2317	A	2.6	-1.4
6	☐	200.000	200.706	2401501.16	0.4715	A	0.1	0.4

y = 0.0023 * x + 3.5413E-005
R = 1.0000
DL = 0.02063 ppb
BEC = 0.01507 ppb

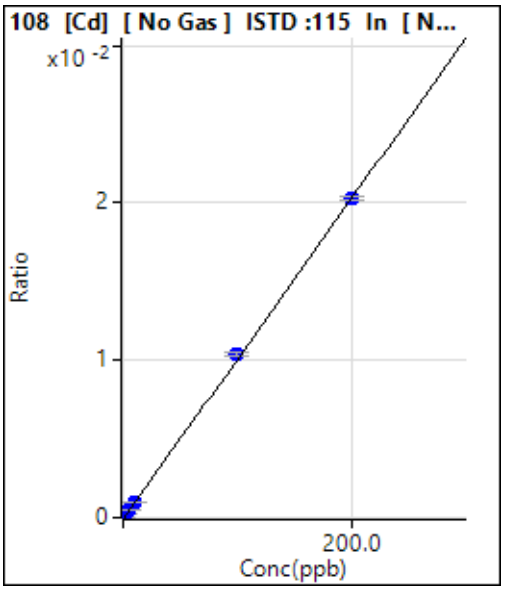
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.38	0.0002	P	8.1	
2	☐	2.000	2.025	69463.52	0.0129	P	2.8	1.3
3	☐	5.000	5.027	172063.10	0.0317	P	1.7	0.5
4	☐	10.000	10.121	343805.45	0.0636	P	1.1	1.2
5	☐	100.000	100.245	3241620.37	0.6288	A	2.8	0.2
6	☐	200.000	199.870	6384405.32	1.2536	A	0.6	-0.1

y = 0.0063 * x + 1.5427E-004
R = 1.0000
DL = 0.005997 ppb
BEC = 0.0246 ppb

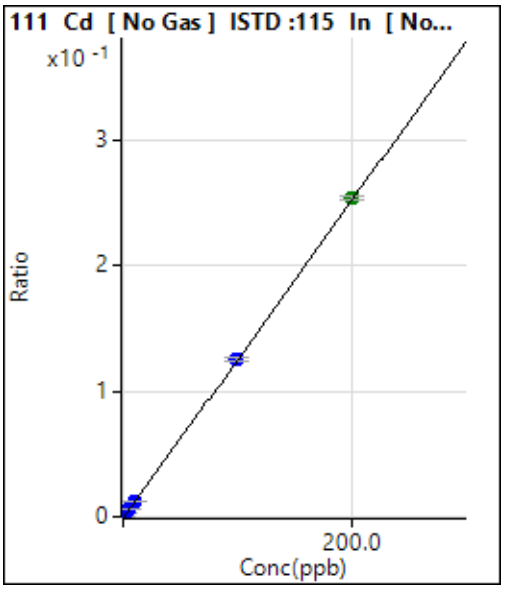
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	1.995	1106.74	0.0002	P	13.3	-0.3
3	☐	5.000	4.879	2710.33	0.0005	P	0.8	-2.4
4	☐	10.000	10.130	5591.27	0.0010	P	0.7	1.3
5	☐	100.000	101.970	53637.82	0.0104	P	2.0	2.0
6	☐	200.000	199.012	103414.66	0.0203	P	0.9	-0.5

y = 1.0203E-004 * x + 1.2162E-006
R = 0.9999
DL = 0.06194 ppb
BEC = 0.01192 ppb

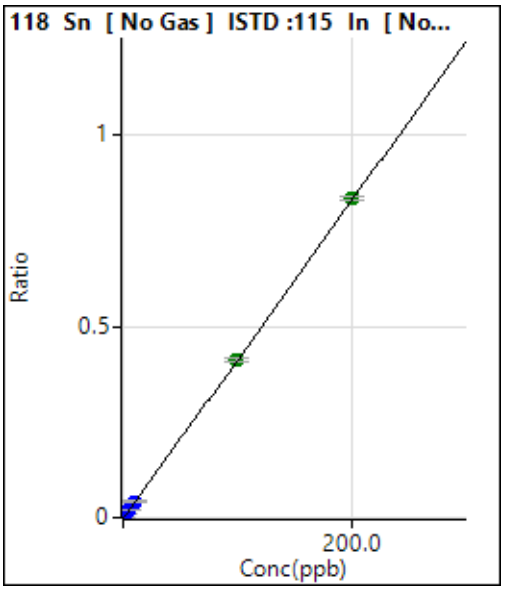
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.18	0.0000	P	181.1	
2	☐	2.000	1.981	13574.23	0.0025	P	9.1	-1.0
3	☐	5.000	4.959	34133.56	0.0063	P	2.5	-0.8
4	☐	10.000	9.756	66792.22	0.0124	P	3.1	-2.4
5	☐	100.000	98.615	643980.48	0.1249	P	2.3	-1.4
6	☐	200.000	200.706	1294841.88	0.2542	A	1.0	0.4

y = 0.0013 * x + 2.9543E-006
R = 1.0000
DL = 0.01267 ppb
BEC = 0.002332 ppb

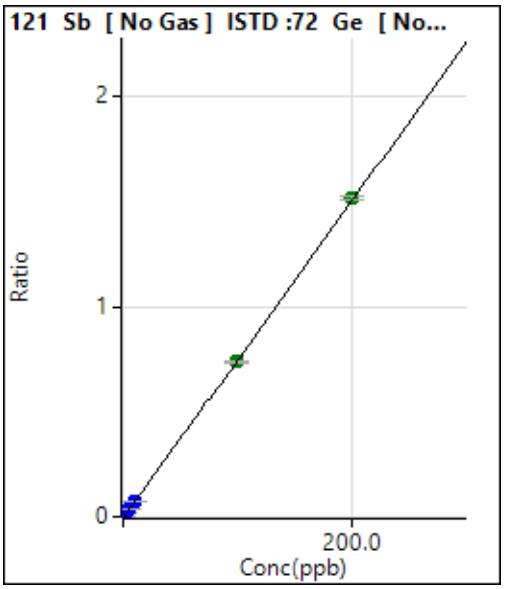
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6124.86	0.0011	P	4.1	
2	☐	2.000	2.069	52568.32	0.0097	P	3.0	3.5
3	☐	5.000	4.943	117741.68	0.0217	P	1.8	-1.1
4	☐	10.000	9.970	230119.40	0.0426	P	1.9	-0.3
5	☐	100.000	99.084	2130163.56	0.4132	A	1.9	-0.9
6	☐	200.000	200.460	4251728.27	0.8348	A	1.5	0.2

y = 0.0042 * x + 0.0011
R = 1.0000
DL = 0.03341 ppb
BEC = 0.2694 ppb

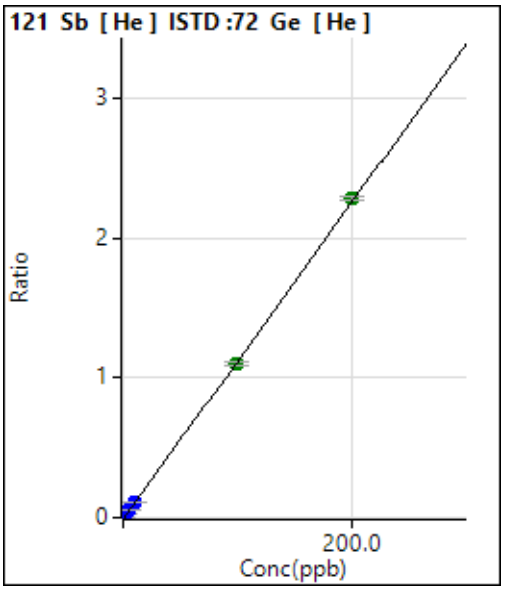
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.01	0.0001	P	10.5	
2	☐	2.000	1.983	62045.06	0.0151	P	1.4	-0.9
3	☐	5.000	4.990	154660.79	0.0378	P	0.9	-0.2
4	☐	10.000	10.053	307370.92	0.0760	P	1.5	0.5
5	☐	100.000	97.899	2865220.27	0.7388	A	1.6	-2.1
6	☐	200.000	201.048	5816531.79	1.5171	A	1.8	0.5

y = 0.0075 * x + 1.0981E-004
R = 0.9999
DL = 0.00459 ppb
BEC = 0.01455 ppb

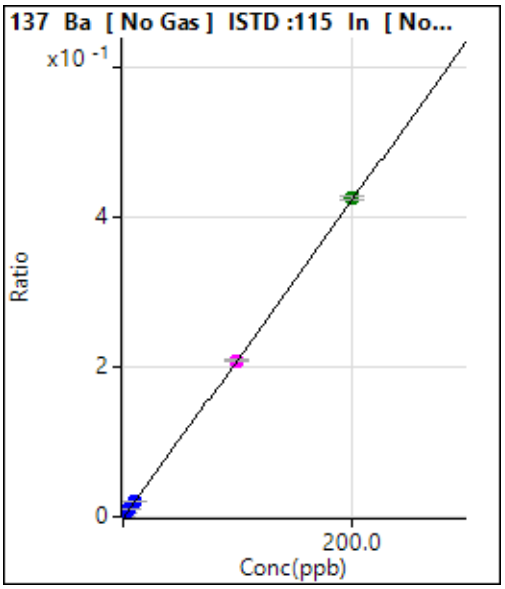
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0002	P	19.9	
2	☐	2.000	1.877	25494.88	0.0215	P	1.3	-6.1
3	☐	5.000	4.788	64389.44	0.0546	P	2.2	-4.2
4	☐	10.000	9.820	129844.74	0.1116	P	2.6	-1.8
5	☐	100.000	96.637	1248588.89	1.0965	A	2.5	-3.4
6	☐	200.000	201.697	2540939.80	2.2883	A	1.2	0.8

y = 0.0113 * x + 2.4049E-004
R = 0.9998
DL = 0.01265 ppb
BEC = 0.0212 ppb

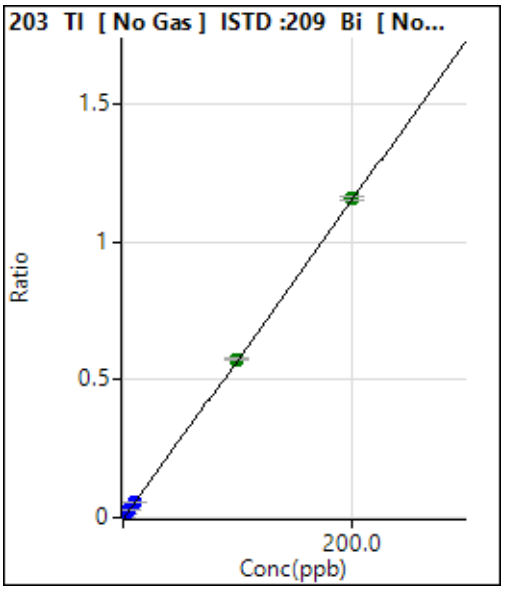
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0002	P	12.4	
2	☐	2.000	2.214	26276.57	0.0049	P	2.4	10.7
3	☐	5.000	4.861	56920.11	0.0105	P	2.0	-2.8
4	☐	10.000	9.803	113295.91	0.0210	P	1.4	-2.0
5	☐	100.000	98.448	1077914.15	0.2091	M	1.8	-1.6
6	☐	200.000	200.787	2171018.98	0.4263	A	1.2	0.4

y = 0.0021 * x + 1.6343E-004
R = 1.0000
DL = 0.02857 ppb
BEC = 0.07701 ppb

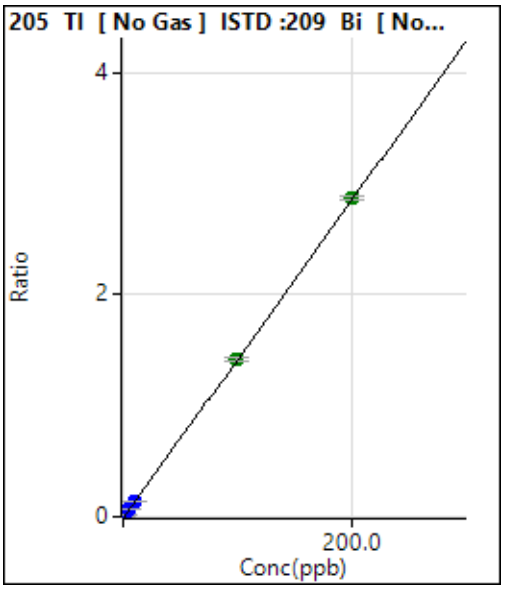
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1230.09	0.0002	P	1.3	
2	☐	2.000	1.807	61355.70	0.0107	P	1.0	-9.7
3	☐	5.000	4.760	161845.36	0.0278	P	1.3	-4.8
4	☐	10.000	9.818	328100.53	0.0570	P	0.2	-1.8
5	☐	100.000	99.166	3206285.79	0.5742	A	1.4	-0.8
6	☐	200.000	200.434	6377438.24	1.1603	A	1.3	0.2

y = 0.0058 * x + 2.1599E-004
R = 1.0000
DL = 0.001412 ppb
BEC = 0.03732 ppb

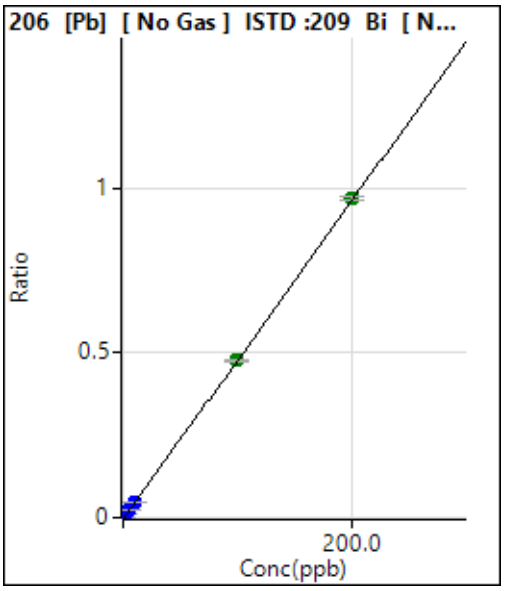
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2840.38	0.0005	P	6.7	
2	☐	2.000	1.742	146130.02	0.0254	P	1.0	-12.9
3	☐	5.000	4.615	387799.11	0.0665	P	0.6	-7.7
4	☐	10.000	9.477	782940.41	0.1361	P	0.9	-5.2
5	☐	100.000	99.068	7919079.46	1.4181	A	1.6	-0.9
6	☐	200.000	200.504	15772541.85	2.8697	A	0.9	0.3

y = 0.0143 * x + 4.9888E-004
R = 1.0000
DL = 0.007026 ppb
BEC = 0.03486 ppb

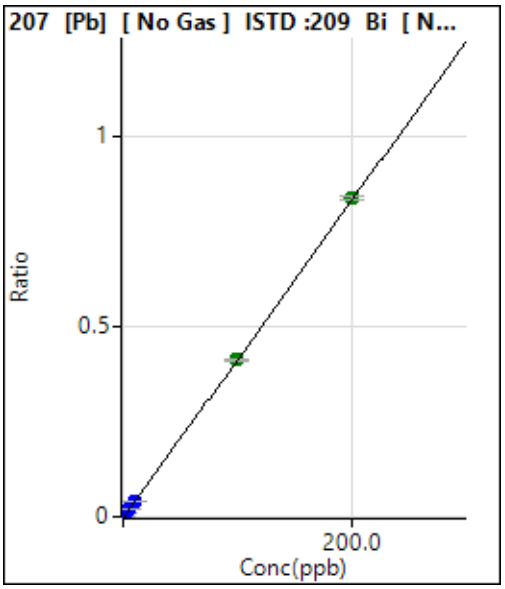
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1390.11	0.0002	P	10.9	
2	☐	2.000	1.910	54441.76	0.0095	P	0.9	-4.5
3	☐	5.000	4.875	138674.39	0.0238	P	0.6	-2.5
4	☐	10.000	9.894	276350.48	0.0480	P	0.8	-1.1
5	☐	100.000	98.626	2662080.06	0.4767	A	1.1	-1.4
6	☐	200.000	200.696	5330407.42	0.9698	A	1.4	0.3

y = 0.0048 * x + 2.4425E-004
R = 1.0000
DL = 0.01653 ppb
BEC = 0.05056 ppb

Weight: <None>
Min Conc: <None>

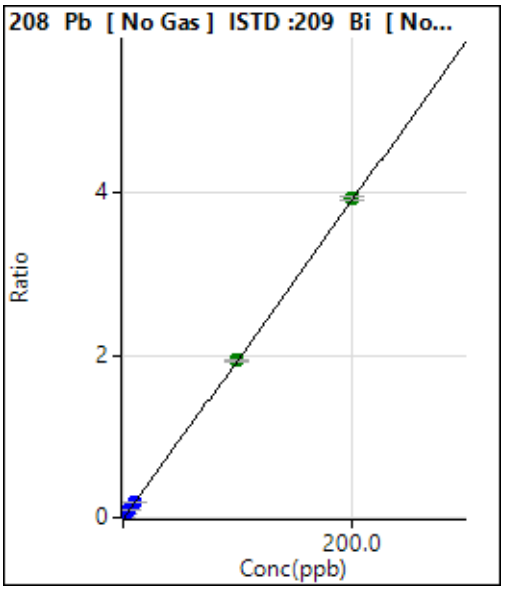


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1326.76	0.0002	P	13.0	
2	☐	2.000	1.949	48199.16	0.0084	P	1.9	-2.6
3	☐	5.000	4.888	120537.44	0.0207	P	1.9	-2.2
4	☐	10.000	9.882	239120.22	0.0416	P	0.8	-1.2
5	☐	100.000	98.681	2306490.44	0.4130	A	1.1	-1.3
6	☐	200.000	200.669	4615146.80	0.8397	A	1.5	0.3

y = 0.0042 * x + 2.3280E-004
R = 1.0000
DL = 0.02164 ppb
BEC = 0.05565 ppb

Weight: <None>
Min Conc: <None>

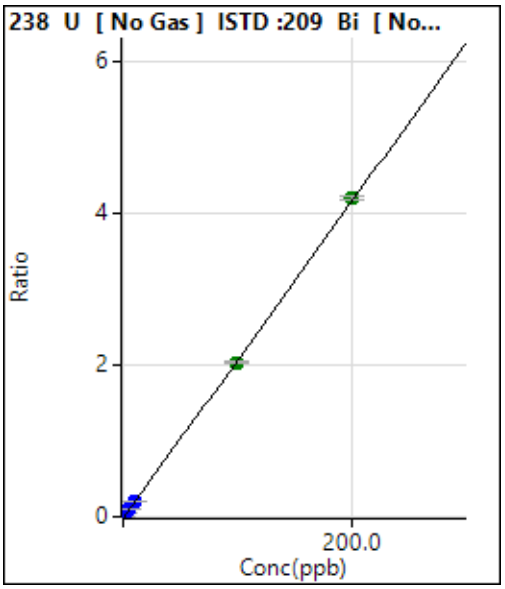
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5820.65	0.0010	P	2.9	
2	☐	2.000	1.914	221755.03	0.0386	P	0.4	-4.3
3	☐	5.000	4.805	555429.51	0.0953	P	0.8	-3.9
4	☐	10.000	9.701	1100723.80	0.1914	P	0.9	-3.0
5	☐	100.000	98.819	10833656.04	1.9401	A	0.9	-1.2
6	☐	200.000	200.611	21641126.13	3.9374	A	1.3	0.3

y = 0.0196 * x + 0.0010
R = 1.0000
DL = 0.004475 ppb
BEC = 0.05209 ppb

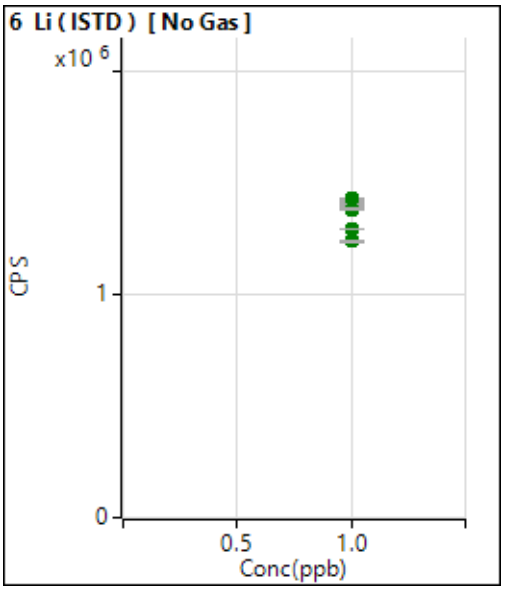
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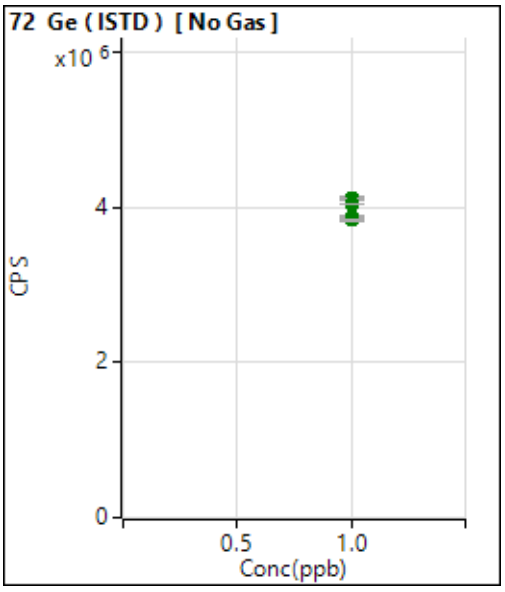
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4307.51	0.0008	P	3.9	
2	☐	2.000	1.823	223408.42	0.0389	P	1.3	-8.9
3	☐	5.000	4.578	562286.40	0.0965	P	0.8	-8.4
4	☐	10.000	9.238	1115451.42	0.1939	P	1.1	-7.6
5	☐	100.000	97.520	11391080.25	2.0399	A	1.0	-2.5
6	☐	200.000	201.291	23138007.15	4.2097	A	1.6	0.6

y = 0.0209 * x + 7.5650E-004
R = 0.9999
DL = 0.004286 ppb
BEC = 0.03618 ppb

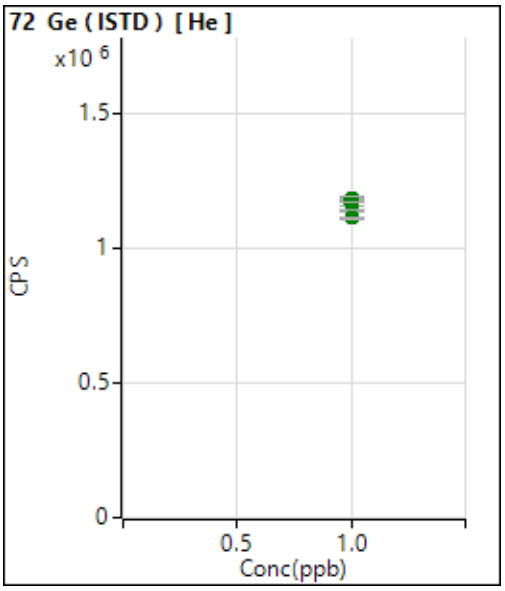
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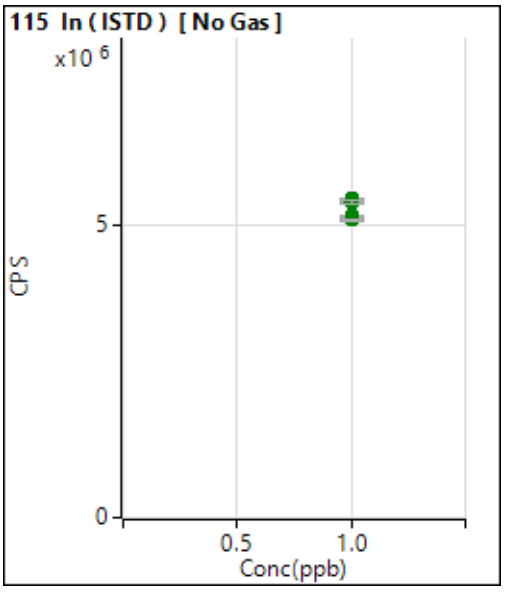
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1432988.15		A	0.6	
2	☐	1.000		1422407.92		A	0.4	
3	☐	1.000		1405542.21		A	0.4	
4	☐	1.000		1384224.02		A	0.7	
5	☐	1.000		1292698.36		A	0.2	
6	☐	1.000		1239713.30		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4099067.23		A	0.8	
2	☐	1.000		4117109.21		A	0.9	
3	☐	1.000		4095960.36		A	0.5	
4	☐	1.000		4046244.73		A	0.3	
5	☐	1.000		3878311.09		A	0.5	
6	☐	1.000		3833939.11		A	0.6	

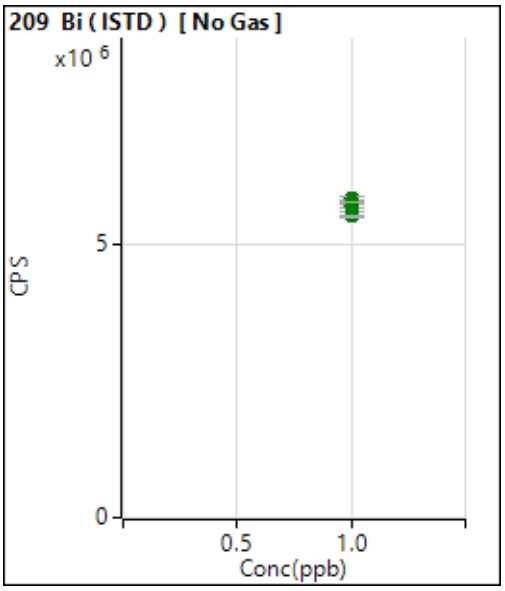


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177508.26		A	0.7	
2	☐	1.000		1183818.29		A	1.4	
3	☐	1.000		1180155.40		A	1.8	
4	☐	1.000		1163171.26		A	1.1	
5	☐	1.000		1138806.67		A	0.9	
6	☐	1.000		1110352.72		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5466008.96		A	0.4	
2	☐	1.000		5404327.92		A	0.5	
3	☐	1.000		5431307.58		A	0.3	
4	☐	1.000		5403499.29		A	0.8	
5	☐	1.000		5155412.32		A	0.5	
6	☐	1.000		5092861.04		A	0.5	

Calibration for 218_ICV.d



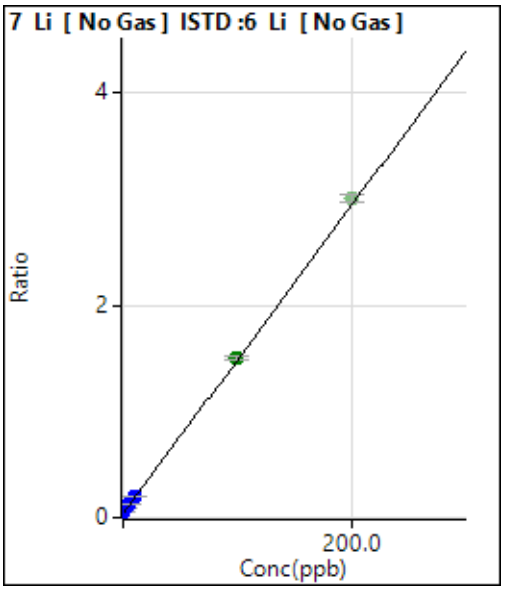
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5695482.21		A	1.0	
2	☐	1.000		5747471.37		A	1.2	
3	☐	1.000		5827952.62		A	1.0	
4	☐	1.000		5751858.45		A	0.2	
5	☐	1.000		5584293.25		A	0.4	
6	☐	1.000		5496197.21		A	0.2	

Calibration for 123_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	116CALB.d	CAL BLK	6/25/2024 3:47:08 PM
2	117CALS.d	2/10/200	6/25/2024 3:49:38 PM
3	118CALS.d	5/25/500	6/25/2024 3:52:08 PM
4	119CALS.d	10/50/100	6/25/2024 3:54:39 PM
5	120CALS.d	100/500/10K	6/25/2024 3:57:08 PM
6	121CALS.d	200/1000/20K	6/25/2024 3:59:38 PM

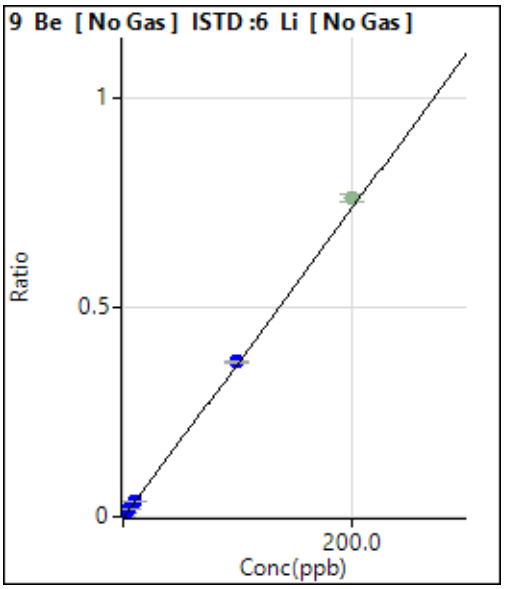
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	91003.24	0.0543	P	0.5	
2	☐	2.000	1.967	135801.46	0.0828	P	1.3	-1.6
3	☐	5.000	4.954	204053.63	0.1261	P	0.4	-0.9
4	☐	10.000	10.038	314748.84	0.1998	P	1.3	0.4
5	☐	100.000	99.999	2252302.10	1.5043	A	2.2	0.0
6	☑	200.000		4295084.10	3.0049	A	2.0	

y = 0.0145 * x + 0.0543
R = 1.0000
DL = 0.0599 ppb
BEC = 3.744 ppb

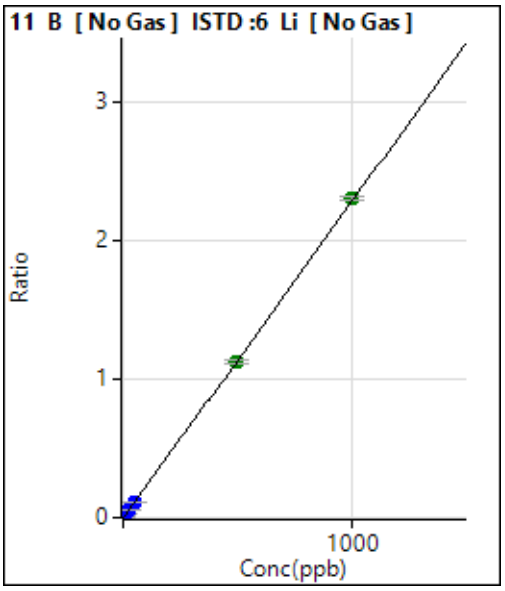
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230.00	0.0001	P	27.7	
2	☐	2.000	1.902	11771.61	0.0072	P	2.0	-4.9
3	☐	5.000	4.830	29161.52	0.0180	P	1.0	-3.4
4	☐	10.000	9.798	57351.63	0.0364	P	4.0	-2.0
5	☐	100.000	100.031	554805.86	0.3705	P	1.7	0.0
6	☑	200.000		1090310.09	0.7628	A	1.9	

y = 0.0037 * x + 1.3710E-004
R = 1.0000
DL = 0.03077 ppb
BEC = 0.03702 ppb

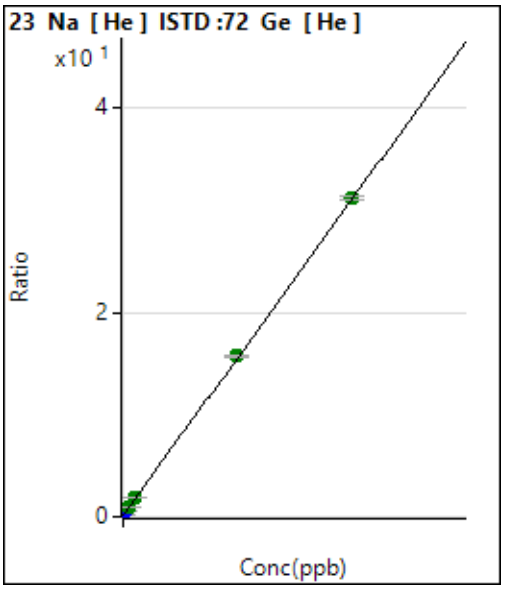
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11521.41	0.0069	P	2.4	
2	☐	10.000	9.636	47375.21	0.0289	P	0.6	-3.6
3	☐	25.000	23.398	97622.44	0.0603	P	0.4	-6.4
4	☐	50.000	48.118	183988.66	0.1168	P	1.7	-3.8
5	☐	500.000	488.824	1682650.81	1.1238	A	1.8	-2.2
6	☐	1000.000	1005.726	3294655.99	2.3049	A	1.1	0.6

y = 0.0023 * x + 0.0069
R = 0.9999
DL = 0.2126 ppb
BEC = 3.008 ppb

Weight: <None>
Min Conc: <None>

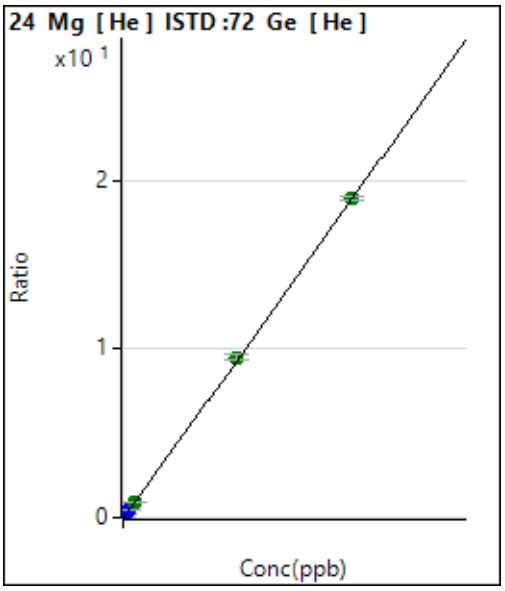


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	321941.48	0.2767	P	1.6	
2	☐	200.000	183.255	654923.78	0.5599	P	1.4	-8.4
3	☐	500.000	471.113	1164116.52	1.0047	A	2.3	-5.8
4	☐	1000.000	997.823	2070850.23	1.8185	A	0.5	-0.2
5	☐	10000.00	9980.713	17609042.24	15.6978	A	2.2	-0.2
6	☐	20000.00	20010.64	34254962.82	31.1950	A	1.2	0.1

y = 0.0015 * x + 0.2767
R = 1.0000
DL = 8.492 ppb
BEC = 179.1 ppb

Weight: <None>
Min Conc: <None>

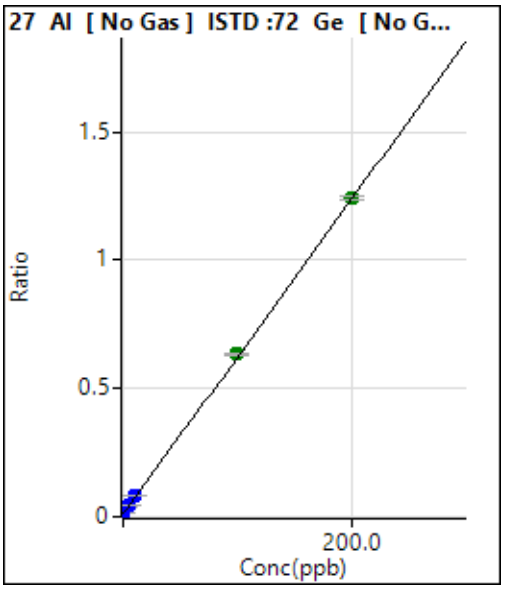
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0008	P	5.2	
2	☐	200.000	192.523	214489.24	0.1834	P	1.6	-3.7
3	☐	500.000	481.411	529997.76	0.4574	P	3.7	-3.7
4	☐	1000.000	1014.470	1096589.41	0.9630	A	0.1	1.4
5	☐	10000.00	10047.61	10690653.17	9.5306	A	2.5	0.5
6	☐	20000.00	19976.00	20805941.36	18.9473	A	1.1	-0.1

y = 9.4846E-004 * x + 7.6806E-004
R = 1.0000
DL = 0.1266 ppb
BEC = 0.8098 ppb

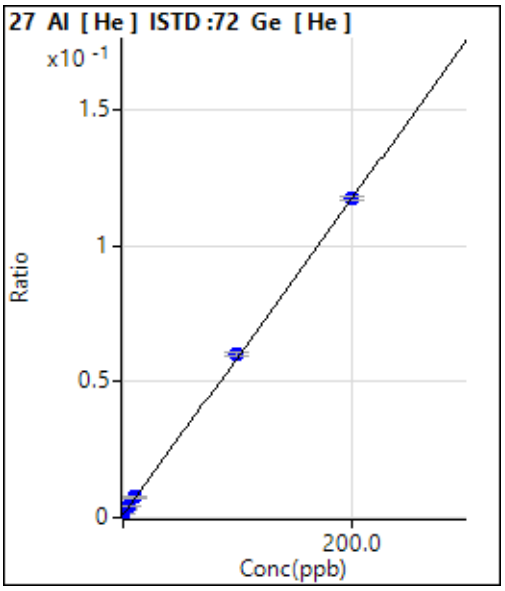
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	64770.12	0.0159	P	1.7	
2	☐	2.000	2.991	140429.14	0.0343	P	1.0	49.6
3	☐	5.000	5.018	190061.91	0.0467	P	2.1	0.4
4	☐	10.000	10.353	320636.44	0.0795	P	1.2	3.5
5	☐	100.000	100.702	2479820.07	0.6349	A	1.6	0.7
6	☐	200.000	199.621	4792184.20	1.2430	A	1.8	-0.2

y = 0.0061 * x + 0.0159
R = 1.0000
DL = 0.1281 ppb
BEC = 2.583 ppb

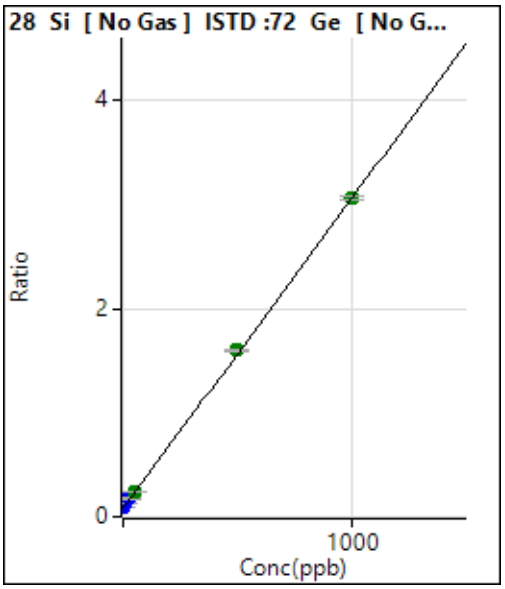
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1796.82	0.0015	P	13.2	
2	☐	2.000	2.931	3800.61	0.0032	P	6.6	46.6
3	☐	5.000	4.893	5087.70	0.0044	P	5.0	-2.1
4	☐	10.000	10.332	8602.75	0.0076	P	3.6	3.3
5	☐	100.000	100.930	67571.85	0.0602	P	3.0	0.9
6	☐	200.000	199.512	129111.29	0.1176	P	1.5	-0.2

y = 5.8157E-004 * x + 0.0015
R = 1.0000
DL = 1.052 ppb
BEC = 2.657 ppb

Weight: <None>
Min Conc: <None>

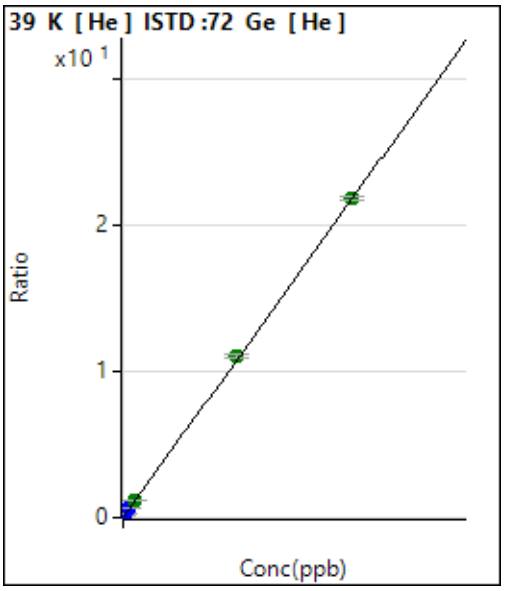


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	388377.05	0.0952	P	0.3	
2	☐	10.000	11.436	529644.03	0.1292	P	0.9	14.4
3	☐	25.000	26.952	713459.73	0.1754	P	0.9	7.8
4	☐	50.000	50.617	991057.85	0.2458	A	1.0	1.2
5	☐	500.000	506.361	6255443.66	1.6017	A	1.2	1.3
6	☐	1000.000	996.725	11798675.24	3.0605	A	1.7	-0.3

y = 0.0030 * x + 0.0952
R = 1.0000
DL = 0.2656 ppb
BEC = 32.01 ppb

Weight: <None>
Min Conc: <None>

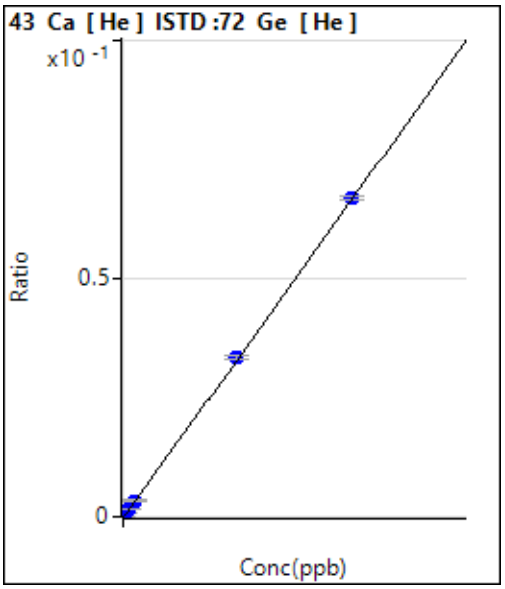
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	124829.84	0.1073	P	0.1	
2	☐	200.000	191.152	369134.79	0.3156	P	1.4	-4.4
3	☐	500.000	484.894	736485.49	0.6356	P	2.5	-3.0
4	☐	1000.000	1011.868	1377701.70	1.2098	A	0.0	1.2
5	☐	10000.00	10057.46	12412694.40	11.0656	A	2.0	0.6
6	☐	20000.00	19971.13	24012157.98	21.8673	A	1.3	-0.1

y = 0.0011 * x + 0.1073
R = 1.0000
DL = 0.154 ppb
BEC = 98.48 ppb

Weight: <None>
Min Conc: <None>

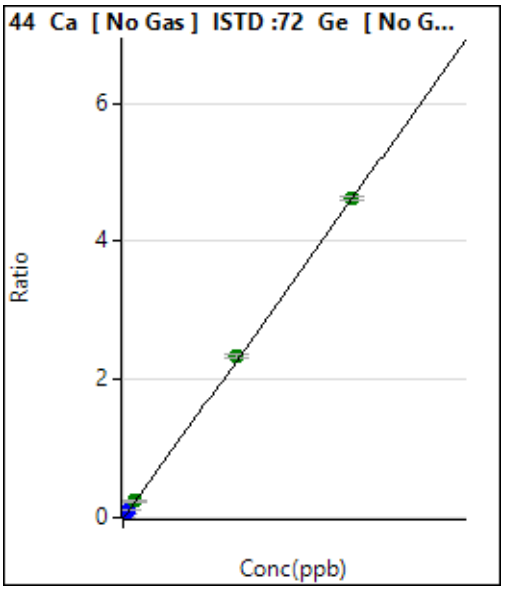


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	57.6	
2	☐	200.000	192.400	796.70	0.0007	P	5.1	-3.8
3	☐	500.000	449.620	1786.82	0.0015	P	6.4	-10.1
4	☐	1000.000	1005.975	3877.26	0.0034	P	3.2	0.6
5	☐	10000.00	9966.497	37457.34	0.0334	P	2.0	-0.3
6	☐	20000.00	20017.78	73611.18	0.0670	P	1.5	0.1

y = 3.3468E-006 * x + 3.7205E-005
R = 1.0000
DL = 19.22 ppb
BEC = 11.12 ppb

Weight: <None>
Min Conc: <None>

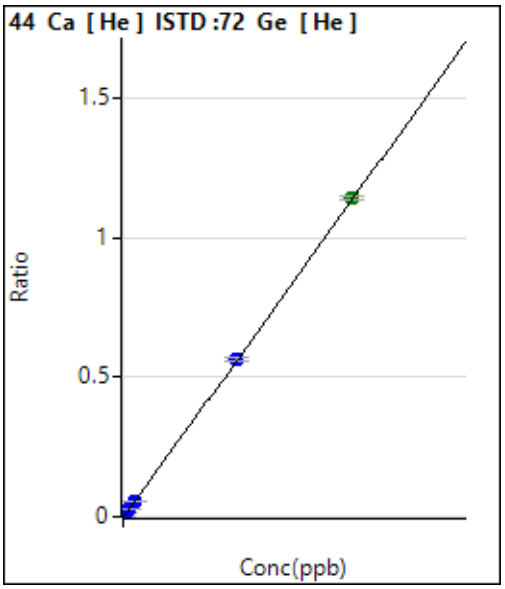
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27230.15	0.0067	P	1.1	
2	☐	200.000	208.057	224649.09	0.0548	P	2.3	4.0
3	☐	500.000	505.820	503239.55	0.1237	P	2.0	1.2
4	☐	1000.000	996.604	956737.17	0.2373	A	1.8	-0.3
5	☐	10000.00	10071.34	9128186.74	2.3372	A	1.6	0.7
6	☐	20000.00	19964.27	17835365.57	4.6264	A	1.8	-0.2

y = 2.3140E-004 * x + 0.0067
R = 1.0000
DL = 0.9426 ppb
BEC = 28.85 ppb

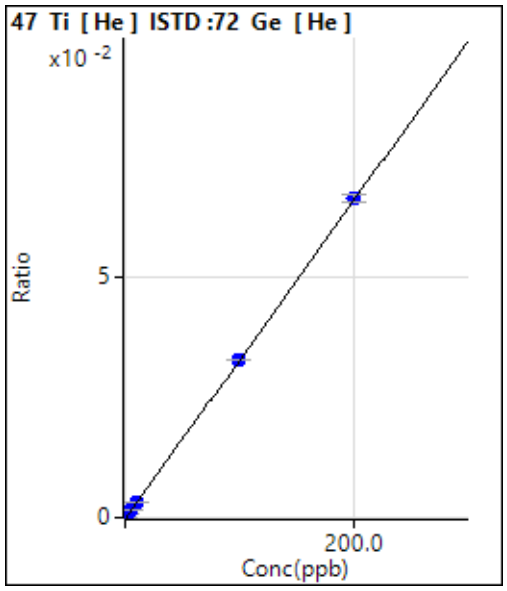
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	920.05	0.0008	P	7.0	
2	☐	200.000	198.184	14150.82	0.0121	P	6.9	-0.9
3	☐	500.000	484.070	32919.17	0.0284	P	1.4	-3.2
4	☐	1000.000	989.865	65209.62	0.0573	P	1.2	-1.0
5	☐	10000.00	9905.756	634861.45	0.5660	P	2.0	-0.9
6	☐	20000.00	20048.04	1256934.25	1.1446	A	1.5	0.2

y = 5.7054E-005 * x + 7.9066E-004
R = 1.0000
DL = 2.919 ppb
BEC = 13.86 ppb

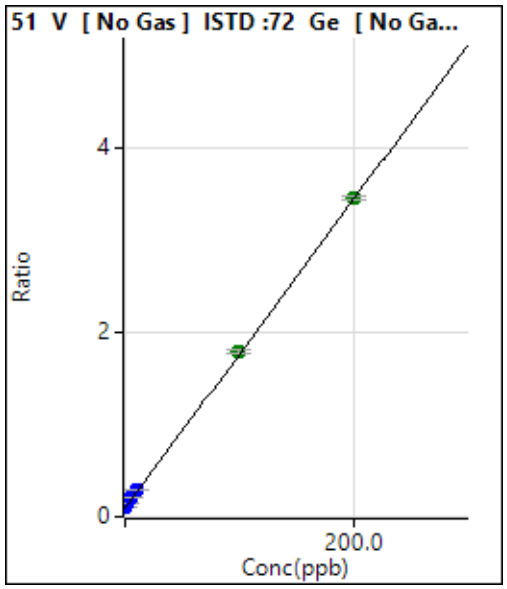
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.9	
2	☐	2.000	2.022	800.04	0.0007	P	11.0	1.1
3	☐	5.000	4.810	1860.16	0.0016	P	17.3	-3.8
4	☐	10.000	9.976	3777.24	0.0033	P	1.8	-0.2
5	☐	100.000	98.996	36779.08	0.0328	P	0.6	-1.0
6	☐	200.000	200.508	72907.57	0.0664	P	1.9	0.3

y = 3.3104E-004 * x + 1.4366E-005
R = 1.0000
DL = 0.09103 ppb
BEC = 0.0434 ppb

Weight: <None>
Min Conc: <None>

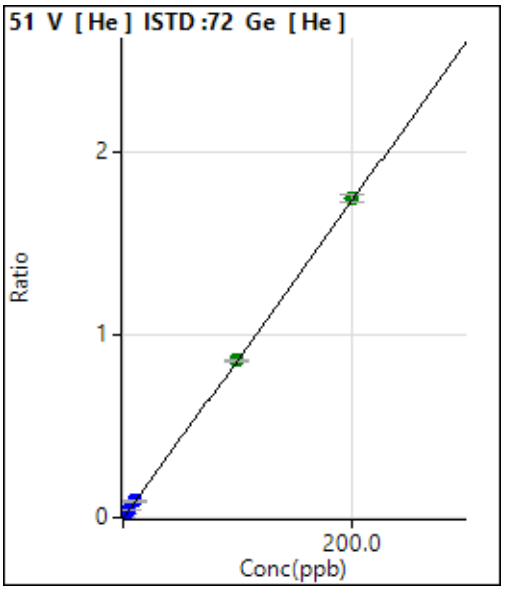


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	453557.67	0.1112	P	1.0	
2	☐	2.000	2.203	606605.10	0.1480	P	1.3	10.1
3	☐	5.000	5.439	822123.80	0.2021	P	1.7	8.8
4	☐	10.000	10.838	1178835.30	0.2924	P	0.8	8.4
5	☐	100.000	100.170	6974698.70	1.7858	A	1.5	0.2
6	☐	200.000	199.860	13309114.98	3.4524	A	1.8	-0.1

y = 0.0167 * x + 0.1112
R = 1.0000
DL = 0.1965 ppb
BEC = 6.652 ppb

Weight: <None>
Min Conc: <None>

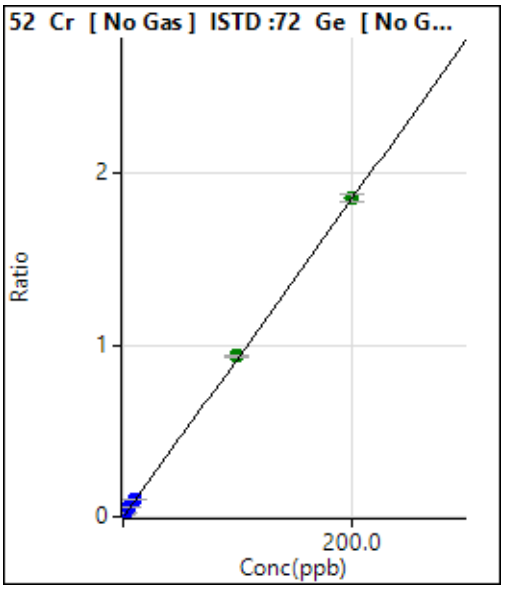
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3789.43	0.0033	P	2.9	
2	☐	2.000	1.908	23211.63	0.0198	P	2.8	-4.6
3	☐	5.000	4.765	51769.62	0.0447	P	2.8	-4.7
4	☐	10.000	10.002	102739.73	0.0902	P	2.0	0.0
5	☐	100.000	98.405	963216.11	0.8587	A	2.4	-1.6
6	☐	200.000	200.804	1920441.80	1.7488	A	1.9	0.4

y = 0.0087 * x + 0.0033
R = 1.0000
DL = 0.03223 ppb
BEC = 0.3747 ppb

Weight: <None>
Min Conc: <None>

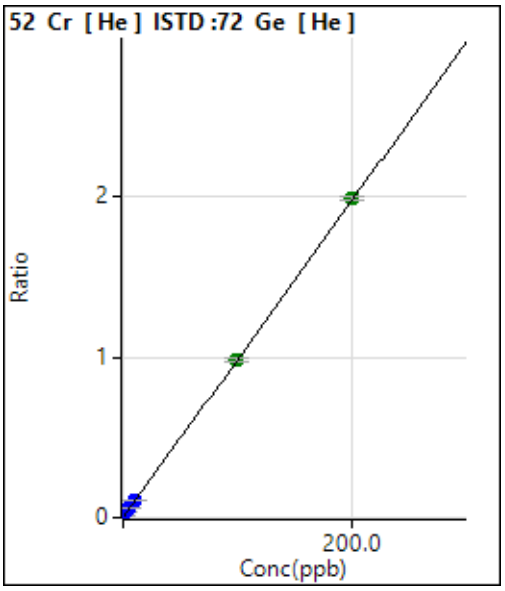


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27009.97	0.0066	P	1.4	
2	☐	2.000	2.049	104794.40	0.0256	P	2.0	2.4
3	☐	5.000	5.058	217253.33	0.0534	P	1.3	1.2
4	☐	10.000	10.151	405311.49	0.1005	P	1.1	1.5
5	☐	100.000	100.356	3651833.18	0.9350	A	1.4	0.4
6	☐	200.000	199.812	7151443.02	1.8551	A	1.9	-0.1

y = 0.0093 * x + 0.0066
R = 1.0000
DL = 0.02996 ppb
BEC = 0.7158 ppb

Weight: <None>
Min Conc: <None>

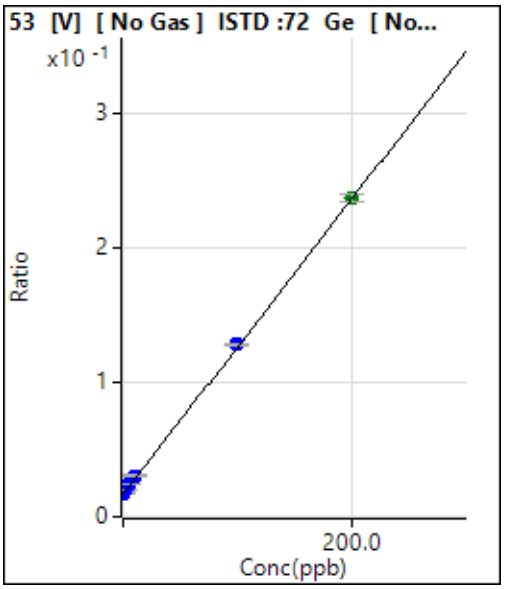
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12989.63	0.0112	P	1.0	
2	☐	2.000	1.929	35321.92	0.0302	P	0.7	-3.5
3	☐	5.000	4.833	68184.68	0.0588	P	3.8	-3.3
4	☐	10.000	10.101	126207.02	0.1108	P	0.8	1.0
5	☐	100.000	98.782	1105733.97	0.9858	A	2.6	-1.2
6	☐	200.000	200.609	2185686.32	1.9904	A	1.7	0.3

y = 0.0099 * x + 0.0112
R = 1.0000
DL = 0.03515 ppb
BEC = 1.132 ppb

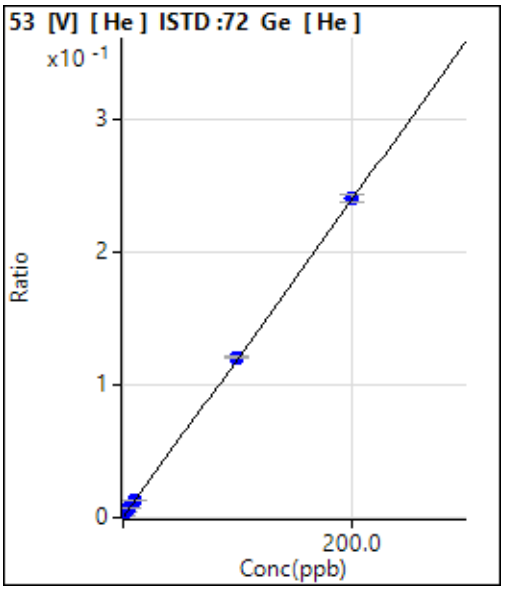
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	72744.09	0.0178	P	1.4	
2	☐	2.000	2.383	83819.92	0.0205	P	1.6	19.1
3	☐	5.000	5.854	98717.08	0.0243	P	1.9	17.1
4	☐	10.000	11.585	123252.36	0.0306	P	1.2	15.8
5	☐	100.000	100.263	500136.87	0.1281	P	1.7	0.3
6	☐	200.000	199.764	915310.85	0.2374	A	2.2	-0.1

y = 0.0011 * x + 0.0178
R = 1.0000
DL = 0.6802 ppb
BEC = 16.22 ppb

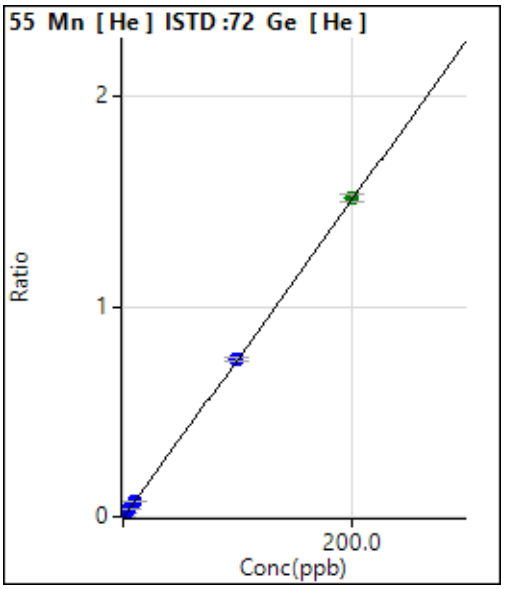
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1780.15	0.0015	P	5.1	
2	☐	2.000	2.026	4617.51	0.0039	P	4.8	1.3
3	☐	5.000	4.973	8649.55	0.0075	P	3.5	-0.5
4	☐	10.000	10.050	15395.48	0.0135	P	1.6	0.5
5	☐	100.000	99.818	135299.51	0.1206	P	1.7	-0.2
6	☐	200.000	200.089	263814.19	0.2402	P	2.0	0.0

y = 0.0012 * x + 0.0015
R = 1.0000
DL = 0.1952 ppb
BEC = 1.283 ppb

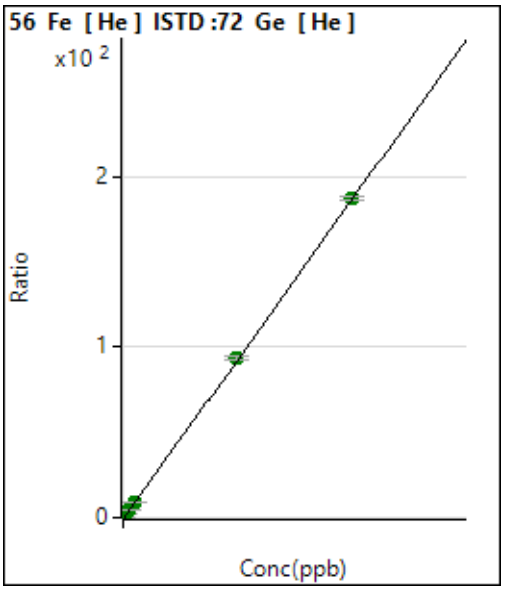
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	833.37	0.0007	P	6.3	
2	☐	2.000	1.930	17908.48	0.0153	P	3.6	-3.5
3	☐	5.000	4.849	43311.44	0.0374	P	3.3	-3.0
4	☐	10.000	10.045	87315.37	0.0767	P	2.5	0.4
5	☐	100.000	99.036	840741.34	0.7495	P	1.4	-1.0
6	☐	200.000	200.484	1665307.79	1.5165	A	2.0	0.2

y = 0.0076 * x + 7.1644E-004
R = 1.0000
DL = 0.01804 ppb
BEC = 0.09476 ppb

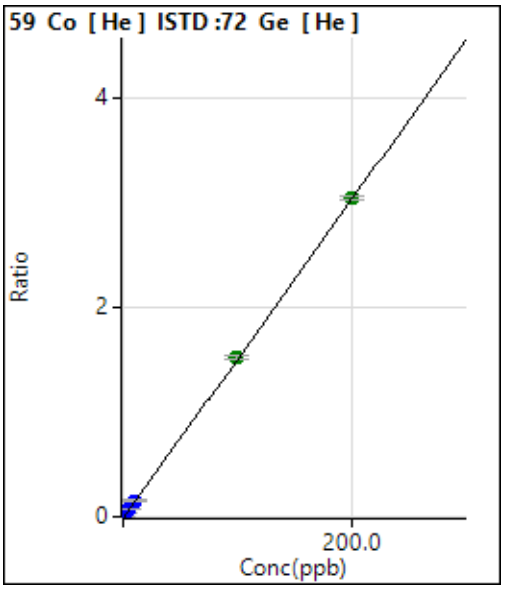
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20475.76	0.0176	P	4.5	
2	☐	200.000	194.991	2155481.11	1.8427	A	1.7	-2.5
3	☐	500.000	482.440	5252886.69	4.5333	A	2.2	-3.5
4	☐	1000.000	1005.981	10743919.84	9.4336	A	1.5	0.6
5	☐	10000.00	9986.993	104877321.7	93.4964	A	2.6	-0.1
6	☐	20000.00	20006.69	205654770.2	187.281	A	1.3	0.0

y = 0.0094 * x + 0.0176
R = 1.0000
DL = 0.2551 ppb
BEC = 1.881 ppb

Weight: <None>
Min Conc: <None>

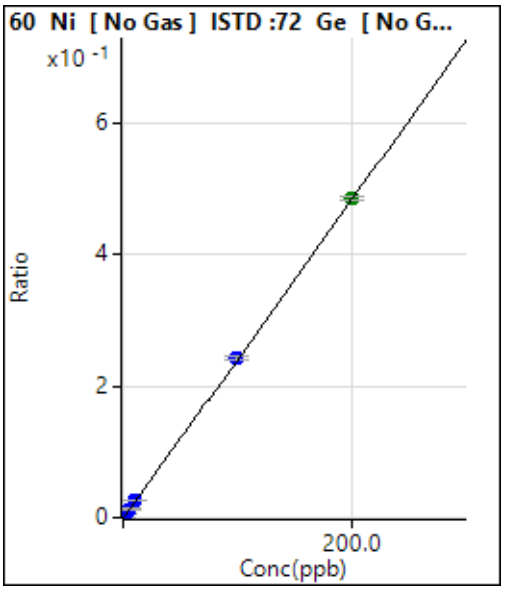


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0007	P	2.4	
2	☐	2.000	1.900	34687.26	0.0297	P	2.0	-5.0
3	☐	5.000	4.889	87151.55	0.0752	P	1.7	-2.2
4	☐	10.000	10.153	177025.39	0.1554	P	1.5	1.5
5	☐	100.000	100.015	1710770.03	1.5251	A	2.5	0.0
6	☐	200.000	199.989	3347949.12	3.0489	A	1.4	0.0

y = 0.0152 * x + 6.9061E-004
R = 1.0000
DL = 0.003301 ppb
BEC = 0.04531 ppb

Weight: <None>
Min Conc: <None>

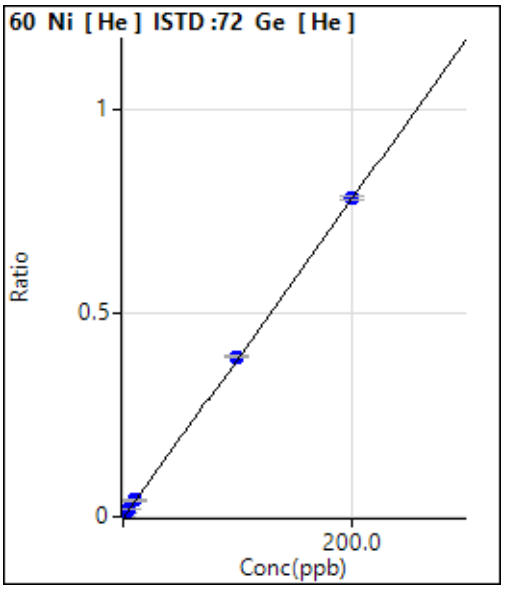
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3663.90	0.0009	P	6.0	
2	☐	2.000	1.981	23366.75	0.0057	P	2.6	-1.0
3	☐	5.000	5.016	53139.27	0.0131	P	2.0	0.3
4	☐	10.000	10.212	103486.37	0.0257	P	1.7	2.1
5	☐	100.000	99.922	950082.48	0.2433	P	1.7	-0.1
6	☐	200.000	200.028	1873903.56	0.4861	A	1.7	0.0

y = 0.0024 * x + 8.9818E-004
R = 1.0000
DL = 0.06666 ppb
BEC = 0.3703 ppb

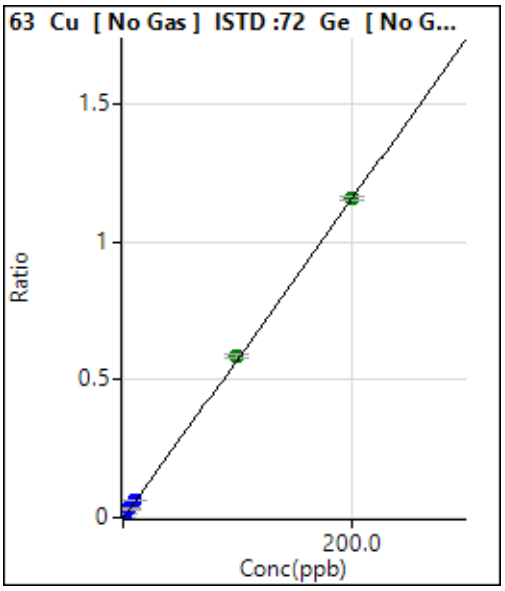
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	423.35	0.0004	P	7.7	
2	☐	2.000	2.006	9603.88	0.0082	P	8.5	0.3
3	☐	5.000	4.911	22675.72	0.0196	P	4.1	-1.8
4	☐	10.000	10.192	45806.41	0.0402	P	2.0	1.9
5	☐	100.000	100.267	440247.23	0.3925	P	1.7	0.3
6	☐	200.000	199.859	858608.89	0.7819	P	1.2	-0.1

y = 0.0039 * x + 3.6378E-004
R = 1.0000
DL = 0.02143 ppb
BEC = 0.09303 ppb

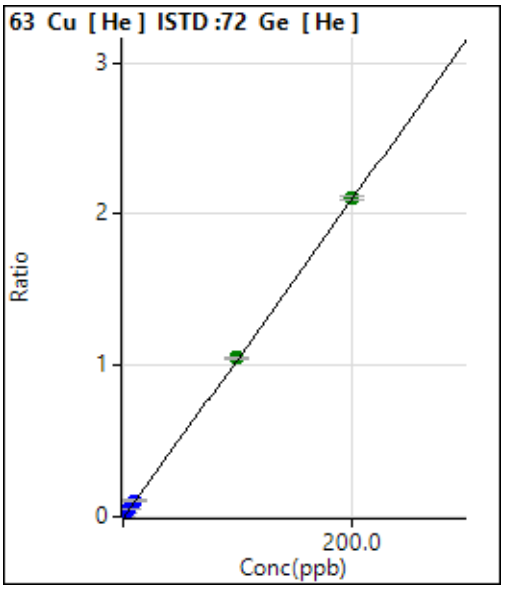
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7001.93	0.0017	P	3.3	
2	☐	2.000	2.122	57506.90	0.0140	P	1.1	6.1
3	☐	5.000	5.158	128742.09	0.0317	P	2.7	3.2
4	☐	10.000	10.297	247850.91	0.0615	P	1.3	3.0
5	☐	100.000	100.823	2291887.73	0.5868	A	1.7	0.8
6	☐	200.000	199.568	4471530.97	1.1599	A	1.3	-0.2

y = 0.0058 * x + 0.0017
R = 1.0000
DL = 0.02933 ppb
BEC = 0.2958 ppb

Weight: <None>
Min Conc: <None>

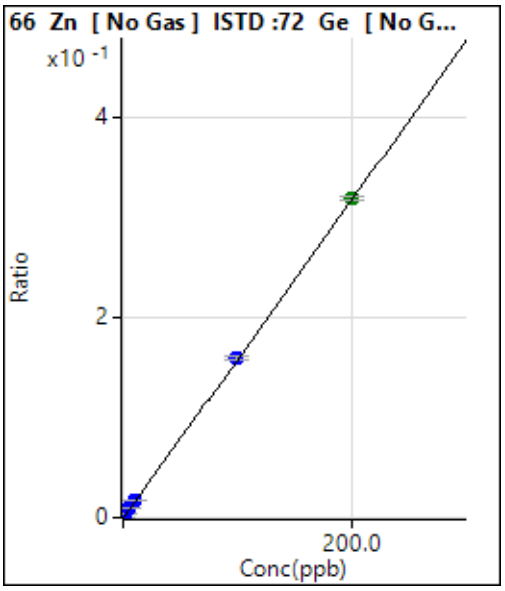


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	756.70	0.0007	P	11.7	
2	☐	2.000	1.992	25266.92	0.0216	P	3.2	-0.4
3	☐	5.000	4.802	59284.39	0.0512	P	0.4	-4.0
4	☐	10.000	10.180	122701.28	0.1077	P	1.5	1.8
5	☐	100.000	99.671	1176878.16	1.0492	A	1.4	-0.3
6	☐	200.000	200.161	2312817.31	2.1063	A	1.7	0.1

y = 0.0105 * x + 6.5039E-004
R = 1.0000
DL = 0.02176 ppb
BEC = 0.06183 ppb

Weight: <None>
Min Conc: <None>

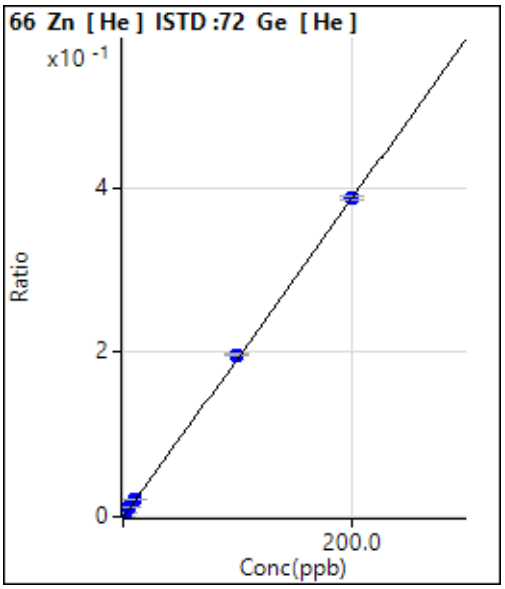
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2770.33	0.0007	P	4.5	
2	☐	2.000	2.457	18826.49	0.0046	P	2.9	22.9
3	☐	5.000	5.103	35833.69	0.0088	P	2.6	2.1
4	☐	10.000	10.003	66996.82	0.0166	P	0.2	0.0
5	☐	100.000	99.727	623213.06	0.1596	P	1.5	-0.3
6	☐	200.000	200.129	1231909.83	0.3195	A	1.5	0.1

y = 0.0016 * x + 6.7929E-004
R = 1.0000
DL = 0.0572 ppb
BEC = 0.4264 ppb

Weight: <None>
Min Conc: <None>

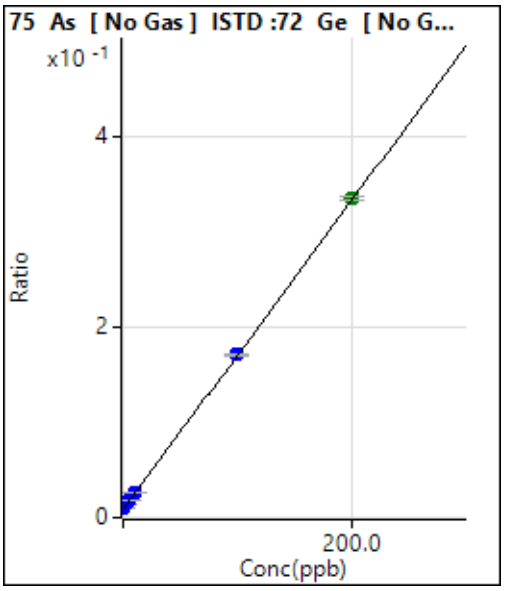


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	943.39	0.0008	P	8.6	
2	☐	2.000	2.445	6494.97	0.0056	P	5.6	22.3
3	☐	5.000	5.185	12589.39	0.0109	P	5.8	3.7
4	☐	10.000	10.236	23533.84	0.0207	P	2.4	2.4
5	☐	100.000	101.026	220719.51	0.1968	P	0.7	1.0
6	☐	200.000	199.466	425720.44	0.3877	P	1.7	-0.3

y = 0.0019 * x + 8.1072E-004
R = 1.0000
DL = 0.1075 ppb
BEC = 0.418 ppb

Weight: <None>
Min Conc: <None>

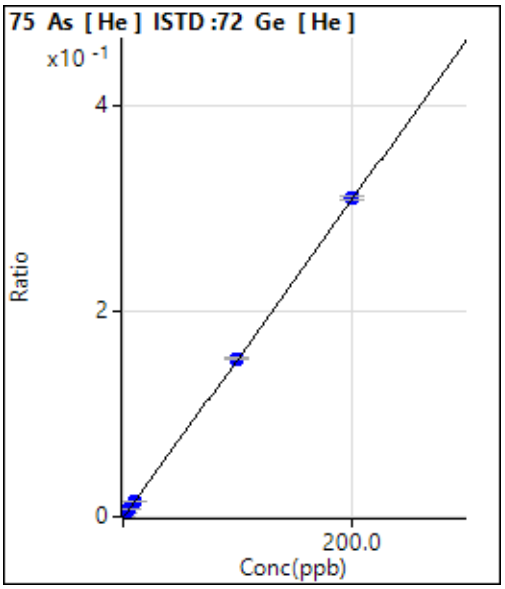
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	42061.77	0.0103	P	1.2	
2	☐	2.000	1.844	54502.39	0.0133	P	1.8	-7.8
3	☐	5.000	4.928	74412.41	0.0183	P	1.9	-1.4
4	☐	10.000	10.132	107748.90	0.0267	P	2.3	1.3
5	☐	100.000	99.327	668667.49	0.1712	P	1.4	-0.7
6	☐	200.000	200.333	1290763.26	0.3348	A	1.6	0.2

y = 0.0016 * x + 0.0103
R = 1.0000
DL = 0.2216 ppb
BEC = 6.366 ppb

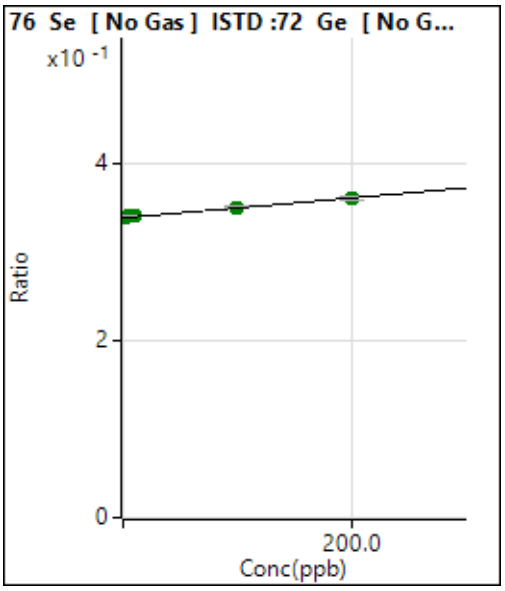
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	345.56	0.0003	P	1.2	
2	☐	2.000	1.877	3747.20	0.0032	P	1.4	-6.2
3	☐	5.000	4.902	9141.98	0.0079	P	3.0	-2.0
4	☐	10.000	9.915	17827.23	0.0157	P	2.1	-0.9
5	☐	100.000	99.344	172929.96	0.1542	P	1.3	-0.7
6	☐	200.000	200.336	341030.84	0.3106	P	1.3	0.2

y = 0.0015 * x + 2.9704E-004
R = 1.0000
DL = 0.0069 ppb
BEC = 0.1918 ppb

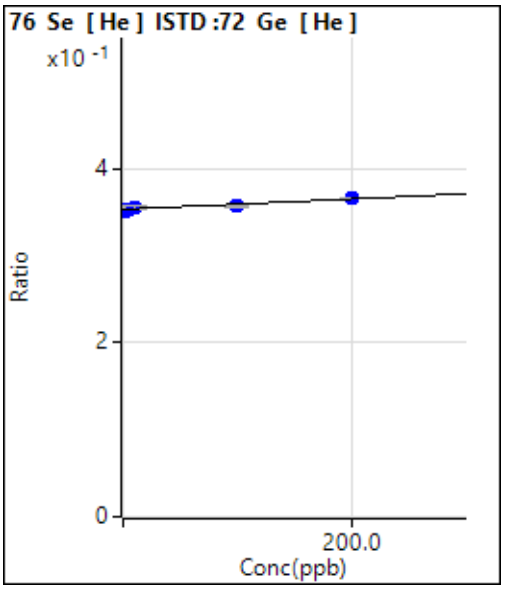
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1382797.01	0.3390	A	0.2	
2	☐	2.000	7.546	1392932.79	0.3399	A	0.6	277.3
3	☐	5.000	16.516	1386656.39	0.3409	A	0.7	230.3
4	☐	10.000	22.842	1377368.00	0.3416	A	0.5	128.4
5	☐	100.000	107.710	1371910.14	0.3513	A	0.4	7.7
6	☐	200.000	195.159	1392566.85	0.3612	A	0.8	-2.4

y = 1.1375E-004 * x + 0.3390
R = 0.9976
DL = 14.1 ppb
BEC = 2980 ppb

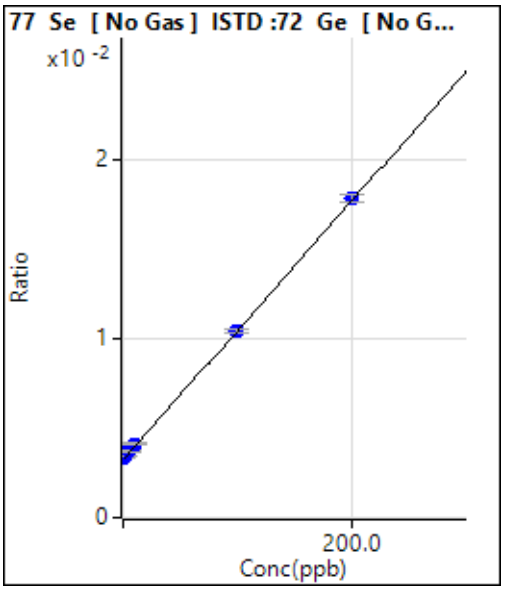
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	410886.54	0.3532	P	0.6	
2	☐	2.000	-30.509	410981.36	0.3514	P	0.5	-1625.4
3	☐	5.000	6.630	409698.93	0.3536	P	0.5	32.6
4	☐	10.000	37.447	404724.50	0.3554	P	1.2	274.5
5	☐	100.000	63.444	400470.54	0.3570	P	0.8	-36.6
6	☐	200.000	217.190	402112.69	0.3662	P	0.6	8.6

y = 6.0005E-005 * x + 0.3532
R = 0.9567
DL = 114.1 ppb
BEC = 5886 ppb

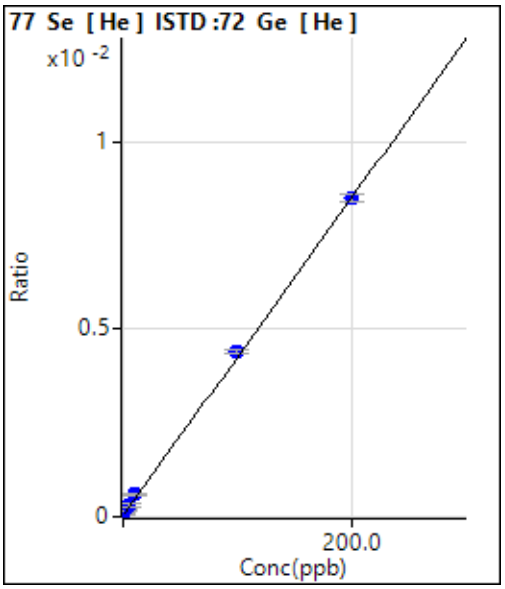
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13620.34	0.0033	P	3.1	
2	☐	2.000	1.476	14124.23	0.0034	P	1.5	-26.2
3	☐	5.000	5.362	15162.02	0.0037	P	4.1	7.2
4	☐	10.000	10.741	16600.31	0.0041	P	2.7	7.4
5	☐	100.000	98.052	40764.54	0.0104	P	1.3	-1.9
6	☐	200.000	200.933	68940.67	0.0179	P	2.8	0.5

y = 7.2386E-005 * x + 0.0033
R = 0.9999
DL = 4.245 ppb
BEC = 46.14 ppb

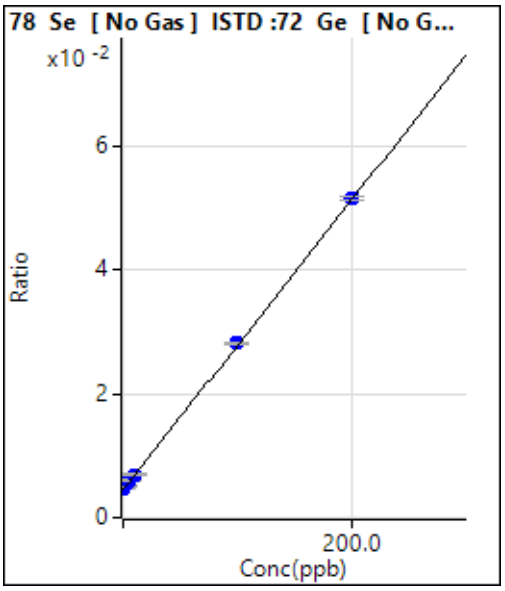
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	33.8	
2	☐	2.000	2.683	223.34	0.0002	P	18.6	34.2
3	☐	5.000	5.579	363.35	0.0003	P	25.2	11.6
4	☐	10.000	12.209	676.70	0.0006	P	7.8	22.1
5	☐	100.000	102.033	4934.31	0.0044	P	1.4	2.0
6	☐	200.000	198.852	9333.38	0.0085	P	2.9	-0.6

y = 4.2351E-005 * x + 7.7431E-005
R = 0.9999
DL = 1.854 ppb
BEC = 1.828 ppb

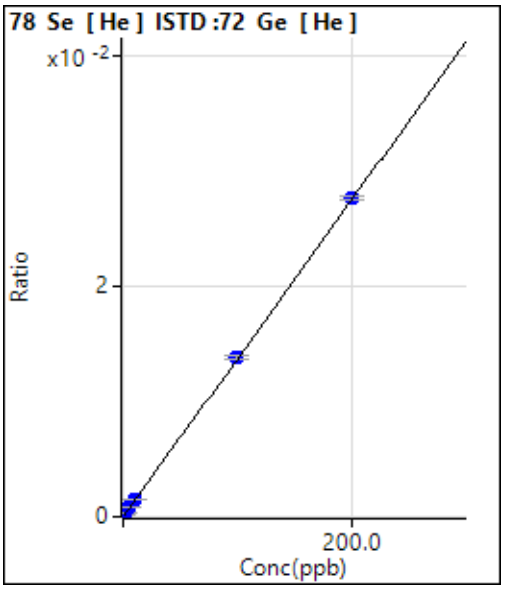
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19400.68	0.0048	P	1.7	
2	☐	2.000	1.841	21260.28	0.0052	P	2.2	-7.9
3	☐	5.000	5.386	24478.98	0.0060	P	2.5	7.7
4	☐	10.000	9.504	28156.05	0.0070	P	1.9	-5.0
5	☐	100.000	99.882	109978.08	0.0282	P	1.7	-0.1
6	☐	200.000	200.076	199052.68	0.0516	P	1.2	0.0

y = 2.3430E-004 * x + 0.0048
R = 1.0000
DL = 1.022 ppb
BEC = 20.3 ppb

Weight: <None>
Min Conc: <None>

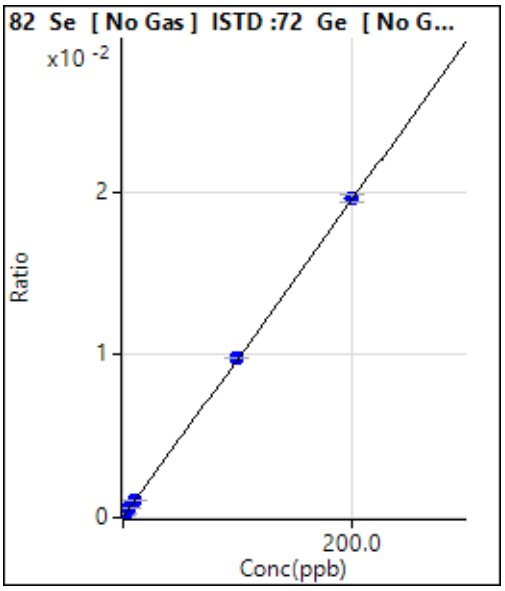


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	3.7	
2	☐	2.000	1.892	458.01	0.0004	P	11.0	-5.4
3	☐	5.000	5.225	984.04	0.0008	P	6.2	4.5
4	☐	10.000	9.775	1678.78	0.0015	P	1.1	-2.3
5	☐	100.000	99.540	15483.46	0.0138	P	2.3	-0.5
6	☐	200.000	200.237	30342.99	0.0276	P	1.7	0.1

y = 1.3734E-004 * x + 1.3179E-004
R = 1.0000
DL = 0.1055 ppb
BEC = 0.9596 ppb

Weight: <None>
Min Conc: <None>

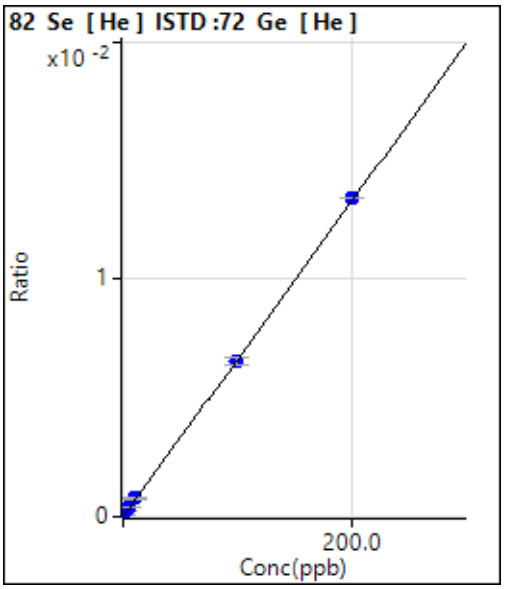
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.01	0.0001	P	4.8	
2	☐	2.000	1.782	1153.40	0.0003	P	9.6	-10.9
3	☐	5.000	5.173	2486.94	0.0006	P	6.5	3.5
4	☐	10.000	10.120	4407.46	0.0011	P	4.1	1.2
5	☐	100.000	99.557	38274.21	0.0098	P	1.0	-0.4
6	☐	200.000	200.214	75553.20	0.0196	P	2.4	0.1

y = 9.7352E-005 * x + 1.0789E-004
R = 1.0000
DL = 0.1583 ppb
BEC = 1.108 ppb

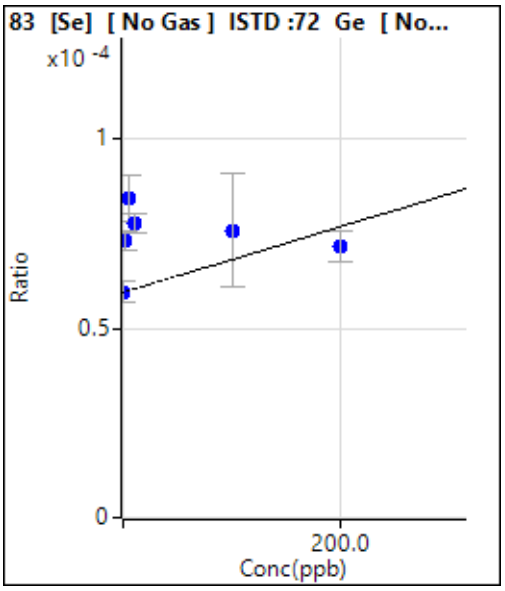
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	8.0	
2	☐	2.000	2.568	276.68	0.0002	P	13.5	28.4
3	☐	5.000	4.939	456.69	0.0004	P	7.8	-1.2
4	☐	10.000	10.776	890.04	0.0008	P	4.9	7.8
5	☐	100.000	97.662	7352.12	0.0066	P	3.8	-2.3
6	☐	200.000	201.126	14744.90	0.0134	P	0.1	0.6

y = 6.6438E-005 * x + 6.5918E-005
R = 0.9999
DL = 0.2387 ppb
BEC = 0.9922 ppb

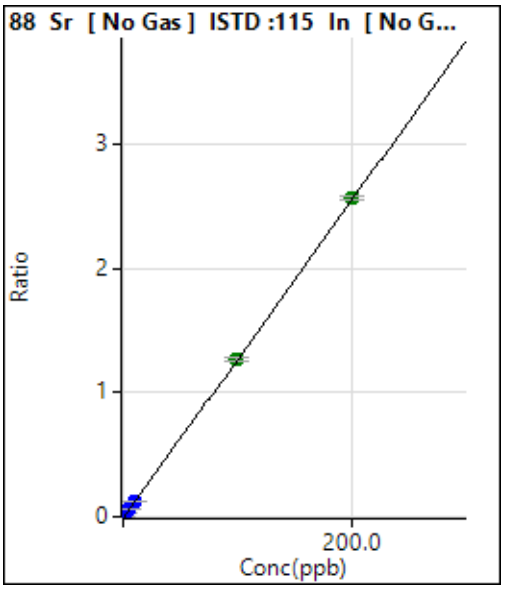
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0001	P	9.0	
2	☐	2.000	155.471	300.01	0.0001	P	6.4	7673.6
3	☐	5.000	283.571	343.34	0.0001	P	14.4	5571.4
4	☐	10.000	206.868	313.34	0.0001	P	6.5	1968.7
5	☐	100.000	186.831	296.68	0.0001	P	39.1	86.8
6	☐	200.000	138.242	276.68	0.0001	P	10.8	-30.9

y = 8.7337E-008 * x + 5.9645E-005
R = -0.0305
DL = 185.1 ppb
BEC = 682.9 ppb

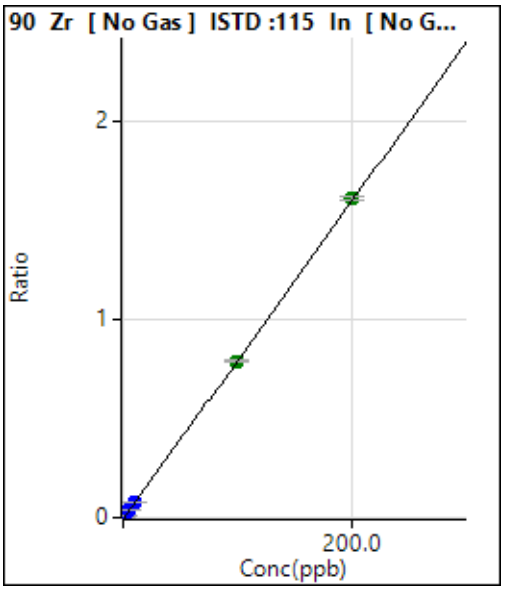
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3443.83	0.0007	P	3.3	
2	☐	2.000	1.949	131827.46	0.0257	P	1.2	-2.5
3	☐	5.000	4.810	320927.11	0.0623	P	1.5	-3.8
4	☐	10.000	9.718	641791.93	0.1253	P	1.2	-2.8
5	☐	100.000	99.087	6355008.03	1.2711	A	1.6	-0.9
6	☐	200.000	200.476	12478416.90	2.5710	A	1.8	0.2

y = 0.0128 * x + 6.6940E-004
R = 1.0000
DL = 0.005164 ppb
BEC = 0.05221 ppb

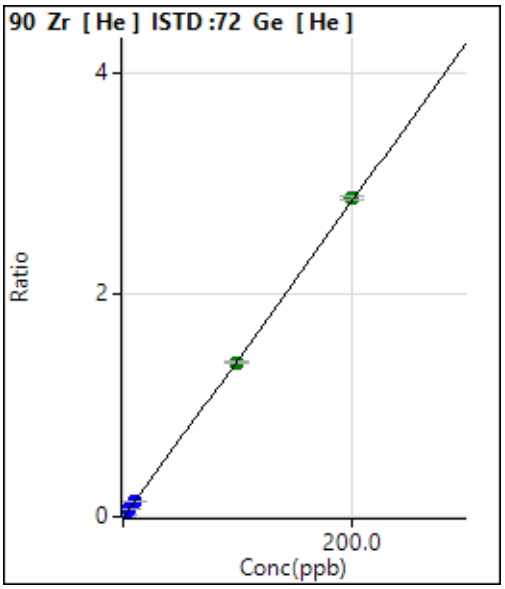
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.09	0.0003	P	4.3	
2	☐	2.000	1.668	69980.91	0.0136	P	0.7	-16.6
3	☐	5.000	4.367	181449.79	0.0352	P	1.6	-12.7
4	☐	10.000	9.208	379299.12	0.0740	P	0.3	-7.9
5	☐	100.000	98.197	3934941.40	0.7870	A	1.3	-1.8
6	☐	200.000	200.960	7816321.76	1.6104	A	1.5	0.5

y = 0.0080 * x + 2.5467E-004
R = 0.9999
DL = 0.004084 ppb
BEC = 0.03178 ppb

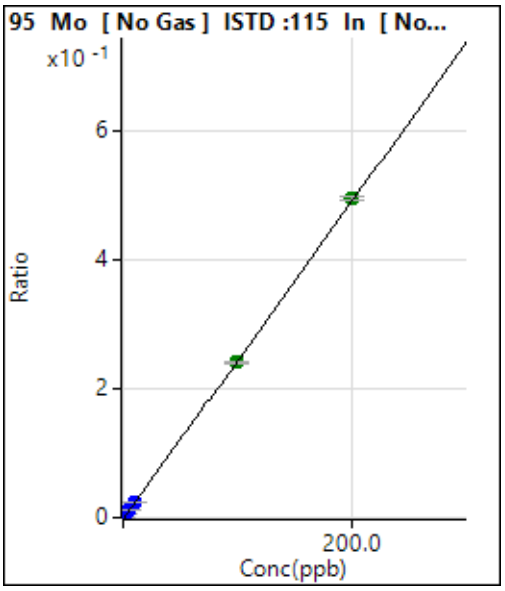
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1793.49	0.0015	P	9.9	
2	☐	2.000	1.582	28153.13	0.0241	P	2.2	-20.9
3	☐	5.000	4.293	72628.27	0.0627	P	3.5	-14.1
4	☐	10.000	9.248	151728.95	0.1332	P	1.5	-7.5
5	☐	100.000	97.451	1558273.26	1.3891	A	2.0	-2.5
6	☐	200.000	201.334	3149651.93	2.8683	A	1.6	0.7

y = 0.0142 * x + 0.0015
R = 0.9999
DL = 0.03205 ppb
BEC = 0.1083 ppb

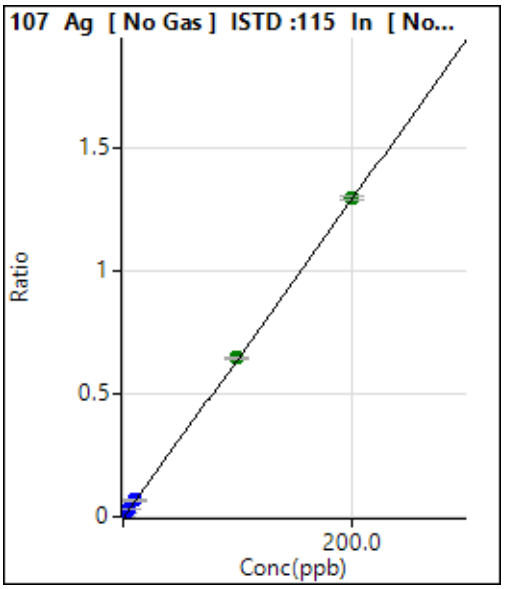
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0000	P	14.1	
2	☐	2.000	1.963	25043.84	0.0049	P	4.6	-1.9
3	☐	5.000	4.863	61895.32	0.0120	P	1.9	-2.7
4	☐	10.000	9.786	123764.89	0.0242	P	0.4	-2.1
5	☐	100.000	97.785	1205195.30	0.2410	A	1.6	-2.2
6	☐	200.000	201.122	2406098.45	0.4957	A	1.3	0.6

y = 0.0025 * x + 3.6939E-005
R = 0.9999
DL = 0.006329 ppb
BEC = 0.01499 ppb

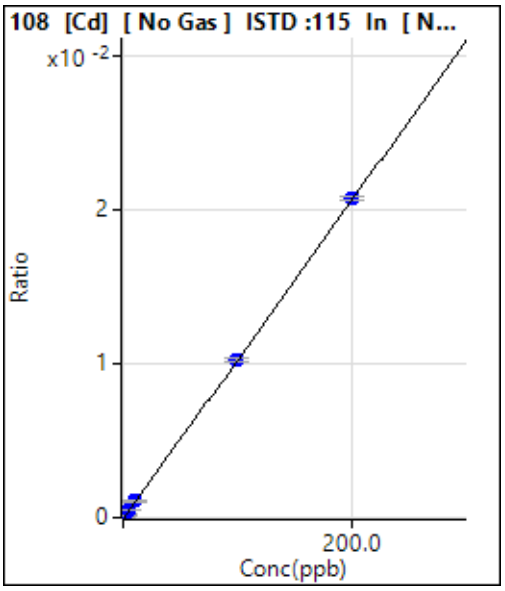
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1130.07	0.0002	P	6.4	
2	☐	2.000	2.055	69617.39	0.0135	P	2.1	2.8
3	☐	5.000	5.082	170821.07	0.0332	P	2.2	1.6
4	☐	10.000	10.252	341807.09	0.0667	P	1.1	2.5
5	☐	100.000	99.713	3234625.68	0.6470	A	1.8	-0.3
6	☐	200.000	200.128	6301259.49	1.2983	A	1.6	0.1

y = 0.0065 * x + 2.1968E-004
R = 1.0000
DL = 0.006466 ppb
BEC = 0.03387 ppb

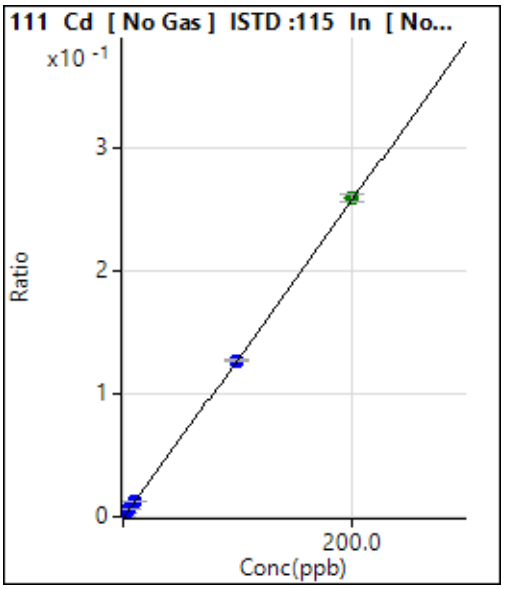
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	86.6	
2	☐	2.000	1.851	1003.39	0.0002	P	9.5	-7.5
3	☐	5.000	4.555	2443.59	0.0005	P	5.0	-8.9
4	☐	10.000	10.261	5454.56	0.0011	P	5.1	2.6
5	☐	100.000	99.244	51312.02	0.0103	P	2.7	-0.8
6	☐	200.000	200.378	100553.55	0.0207	P	1.8	0.2

y = 1.0337E-004 * x + 3.8826E-006
R = 1.0000
DL = 0.09758 ppb
BEC = 0.03756 ppb

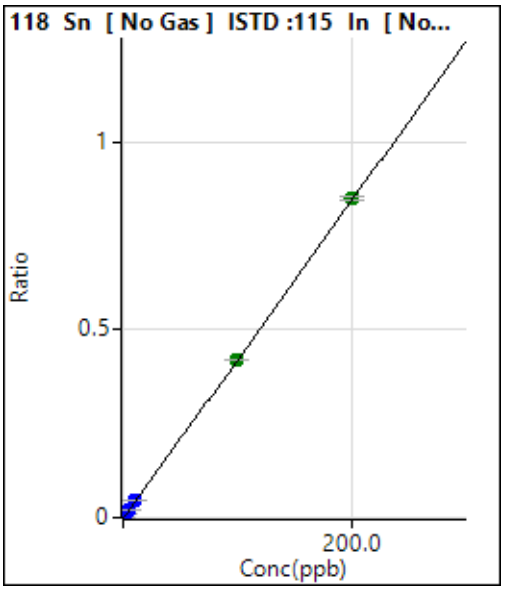
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1.87	0.0000	P	1877.	
2	☐	2.000	2.067	13751.81	0.0027	P	2.3	3.3
3	☐	5.000	4.975	33166.39	0.0064	P	2.7	-0.5
4	☐	10.000	9.969	66141.43	0.0129	P	1.3	-0.3
5	☐	100.000	98.429	637239.95	0.1275	P	2.1	-1.6
6	☐	200.000	200.787	1261910.71	0.2600	A	2.1	0.4

y = 0.0013 * x + 3.7572E-007
R = 1.0000
DL = 0.01634 ppb
BEC = 0.0002902 ppb

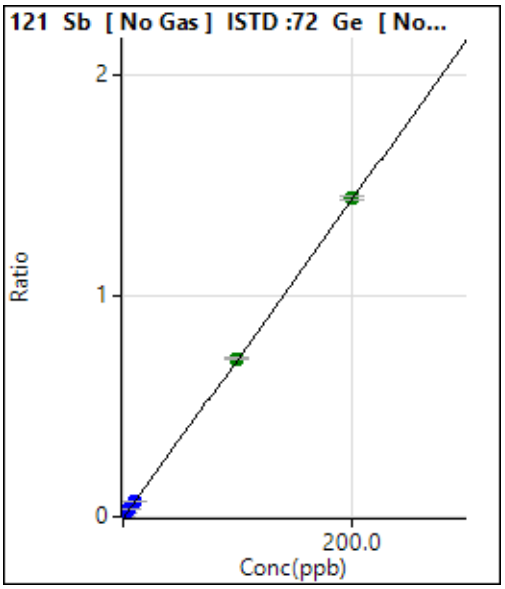
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6481.70	0.0013	P	3.9	
2	☐	2.000	2.034	50780.98	0.0099	P	1.8	1.7
3	☐	5.000	4.924	113983.02	0.0221	P	1.3	-1.5
4	☐	10.000	10.016	224036.87	0.0437	P	0.4	0.2
5	☐	100.000	99.133	2107880.75	0.4216	A	0.5	-0.9
6	☐	200.000	200.434	4131092.85	0.8511	A	1.0	0.2

y = 0.0042 * x + 0.0013
R = 1.0000
DL = 0.03505 ppb
BEC = 0.2971 ppb

Weight: <None>
Min Conc: <None>

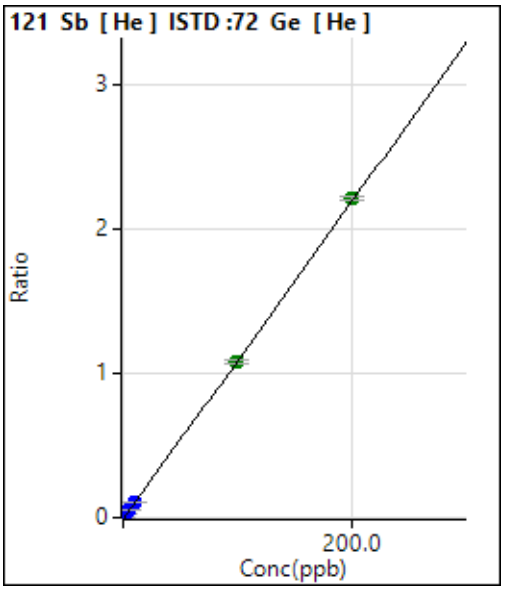


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	596.69	0.0001	P	5.4	
2	☐	2.000	2.025	60330.69	0.0147	P	3.0	1.2
3	☐	5.000	5.016	147472.58	0.0363	P	0.7	0.3
4	☐	10.000	10.057	292505.77	0.0725	P	1.5	0.6
5	☐	100.000	99.225	2790506.63	0.7145	A	1.2	-0.8
6	☐	200.000	200.384	5562198.46	1.4428	A	1.3	0.2

y = 0.0072 * x + 1.4629E-004
R = 1.0000
DL = 0.0033 ppb
BEC = 0.02032 ppb

Weight: <None>
Min Conc: <None>

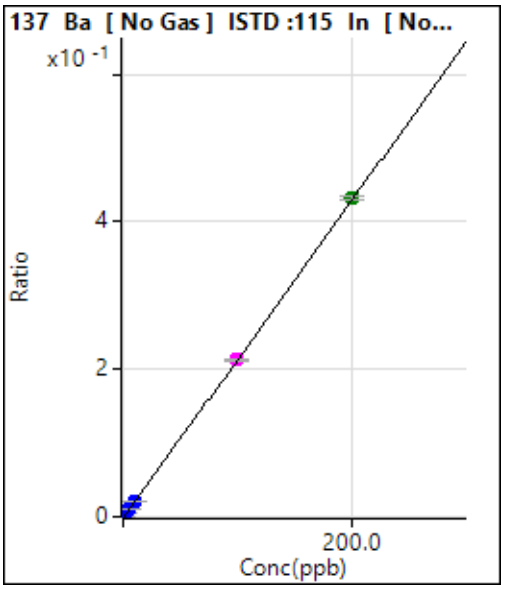
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.67	0.0002	P	27.7	
2	☐	2.000	1.929	25084.10	0.0214	P	2.4	-3.5
3	☐	5.000	4.803	61523.29	0.0531	P	4.6	-3.9
4	☐	10.000	9.973	125278.34	0.1100	P	1.2	-0.3
5	☐	100.000	97.652	1206188.45	1.0753	A	2.3	-2.3
6	☐	200.000	201.181	2432430.90	2.2151	A	1.6	0.6

y = 0.0110 * x + 2.0354E-004
R = 0.9999
DL = 0.01534 ppb
BEC = 0.01849 ppb

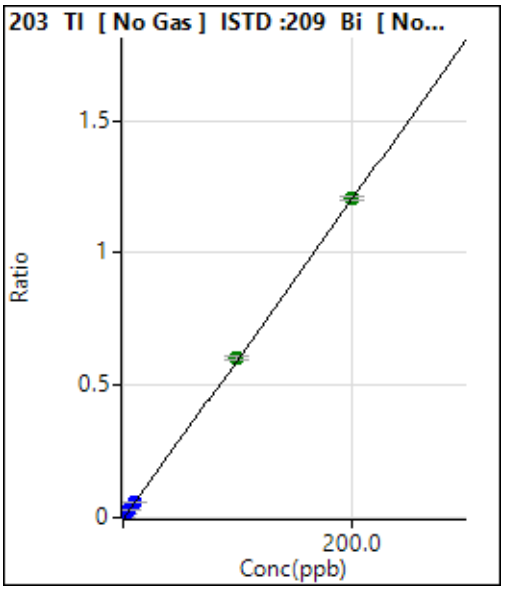
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	770.03	0.0001	P	9.7	
2	☐	2.000	2.176	24847.13	0.0048	P	2.7	8.8
3	☐	5.000	4.841	54449.82	0.0106	P	4.8	-3.2
4	☐	10.000	9.911	110132.49	0.0215	P	1.2	-0.9
5	☐	100.000	98.606	1062547.56	0.2125	M	0.9	-1.4
6	☐	200.000	200.704	2098757.68	0.4324	A	1.7	0.4

y = 0.0022 * x + 1.4967E-004
R = 1.0000
DL = 0.02027 ppb
BEC = 0.06949 ppb

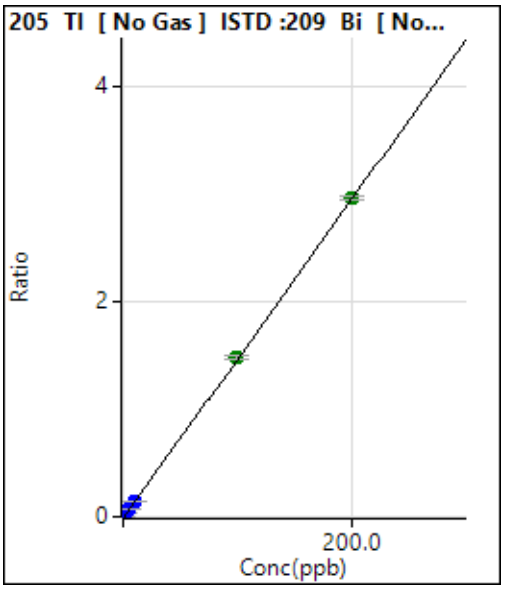
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1063.39	0.0002	P	4.7	
2	☐	2.000	1.864	56952.25	0.0115	P	0.9	-6.8
3	☐	5.000	4.855	146964.38	0.0295	P	3.0	-2.9
4	☐	10.000	9.930	303207.52	0.0602	P	1.1	-0.7
5	☐	100.000	100.133	2957484.85	0.6047	A	2.1	0.1
6	☐	200.000	199.942	5896563.24	1.2072	A	1.2	0.0

y = 0.0060 * x + 2.1508E-004
R = 1.0000
DL = 0.005027 ppb
BEC = 0.03563 ppb

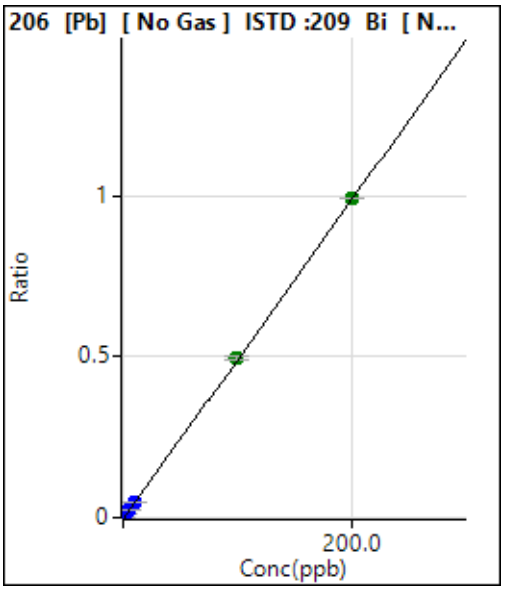
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2733.67	0.0006	P	8.7	
2	☐	2.000	1.800	135292.49	0.0272	P	3.1	-10.0
3	☐	5.000	4.693	349043.55	0.0701	P	1.7	-6.1
4	☐	10.000	9.618	721276.55	0.1431	P	1.4	-3.8
5	☐	100.000	100.235	7269242.39	1.4863	A	3.0	0.2
6	☐	200.000	199.911	14476418.54	2.9638	A	0.8	0.0

y = 0.0148 * x + 5.5313E-004
R = 1.0000
DL = 0.009768 ppb
BEC = 0.03732 ppb

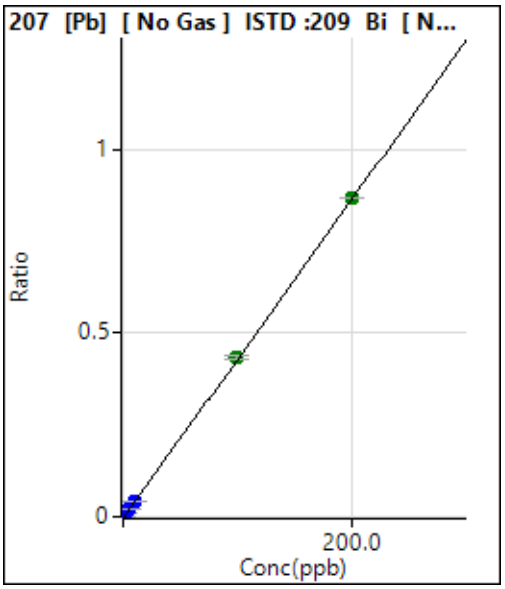
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1283.43	0.0003	P	9.3	
2	☐	2.000	2.040	51592.69	0.0104	P	0.1	2.0
3	☐	5.000	4.992	124661.17	0.0250	P	2.2	-0.2
4	☐	10.000	9.948	250236.17	0.0497	P	2.0	-0.5
5	☐	100.000	99.962	2428589.13	0.4965	A	2.4	0.0
6	☐	200.000	200.022	4851910.13	0.9933	A	0.0	0.0

y = 0.0050 * x + 2.5971E-004
R = 1.0000
DL = 0.01455 ppb
BEC = 0.05231 ppb

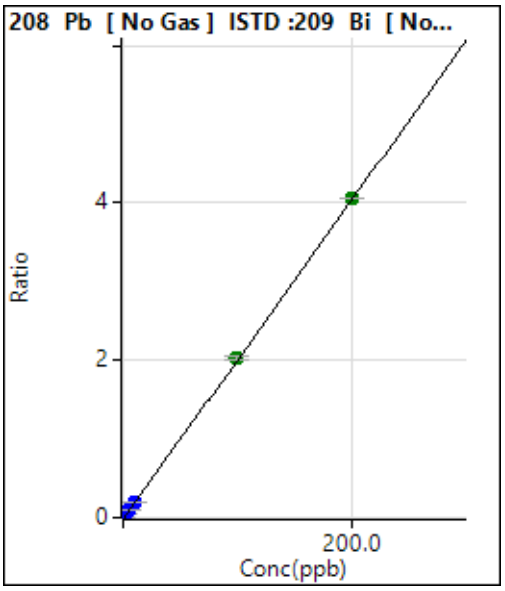
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1186.75	0.0002	P	2.8	
2	☐	2.000	1.973	43739.78	0.0088	P	4.1	-1.3
3	☐	5.000	4.929	107645.92	0.0216	P	3.2	-1.4
4	☐	10.000	9.929	218349.87	0.0433	P	1.1	-0.7
5	☐	100.000	99.842	2120187.93	0.4335	A	2.3	-0.2
6	☐	200.000	200.085	4242060.04	0.8685	A	0.3	0.0

y = 0.0043 * x + 2.4000E-004
R = 1.0000
DL = 0.004669 ppb
BEC = 0.05531 ppb

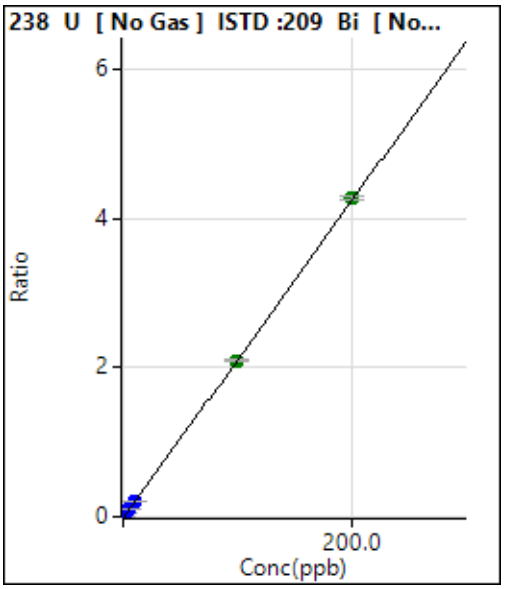
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5470.59	0.0011	P	3.2	
2	☐	2.000	1.953	202278.69	0.0407	P	2.0	-2.3
3	☐	5.000	4.833	493260.76	0.0991	P	1.5	-3.3
4	☐	10.000	9.730	999973.48	0.1984	P	1.6	-2.7
5	☐	100.000	99.663	9889606.15	2.0220	A	2.0	-0.3
6	☐	200.000	200.187	19833060.43	4.0603	A	0.6	0.1

y = 0.0203 * x + 0.0011
R = 1.0000
DL = 0.005191 ppb
BEC = 0.05457 ppb

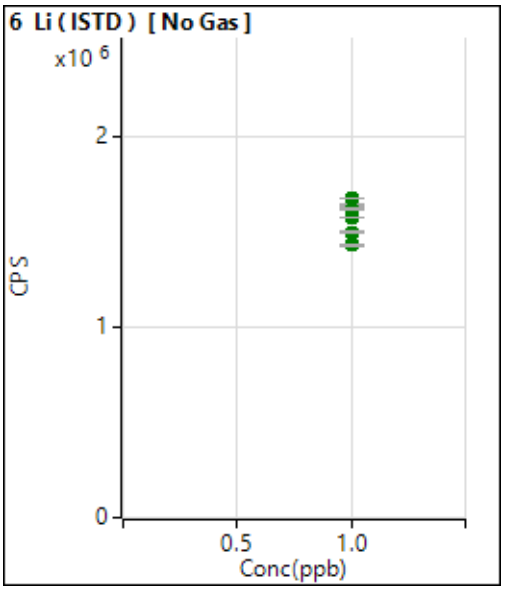
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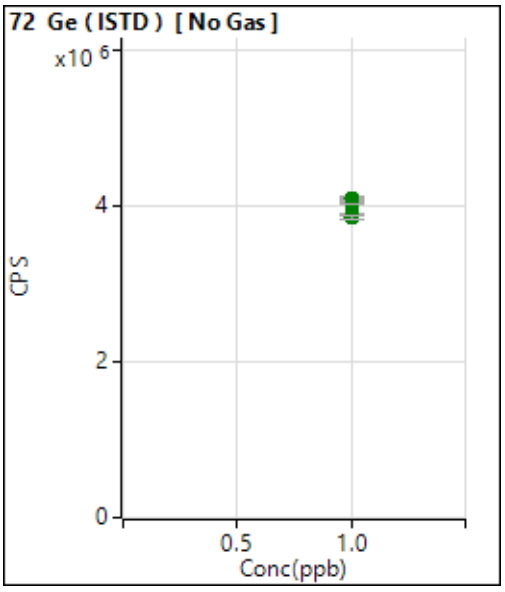
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3840.69	0.0008	P	2.4	
2	☐	2.000	1.852	199597.32	0.0402	P	1.2	-7.4
3	☐	5.000	4.633	494594.50	0.0994	P	0.6	-7.3
4	☐	10.000	9.370	1008708.24	0.2001	P	1.3	-6.3
5	☐	100.000	98.429	10247644.64	2.0951	A	1.7	-1.6
6	☐	200.000	200.828	20877186.77	4.2740	A	1.5	0.4

y = 0.0213 * x + 7.7664E-004
R = 1.0000
DL = 0.002649 ppb
BEC = 0.0365 ppb

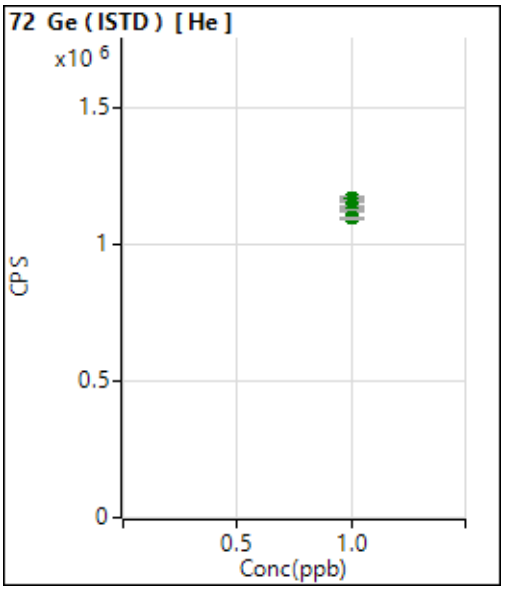
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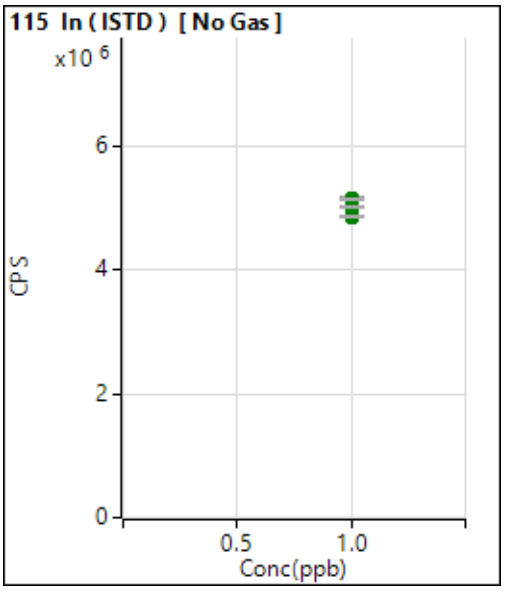
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1676118.60		A	0.5	
2	☐	1.000		1639782.03		A	0.4	
3	☐	1.000		1617926.82		A	0.3	
4	☐	1.000		1575065.32		A	0.6	
5	☐	1.000		1497357.81		A	0.5	
6	☐	1.000		1429491.40		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4078799.42		A	0.6	
2	☐	1.000		4098266.40		A	0.7	
3	☐	1.000		4067729.52		A	0.7	
4	☐	1.000		4031887.75		A	0.2	
5	☐	1.000		3905522.13		A	0.4	
6	☐	1.000		3855346.19		A	0.9	

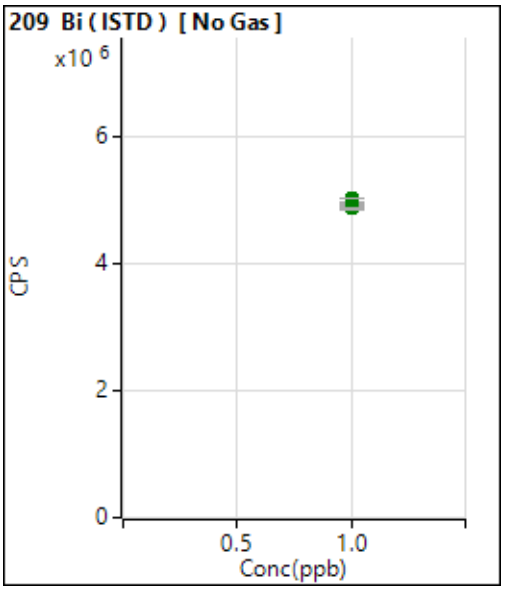


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1163380.53		A	0.6	
2	☐	1.000		1169709.75		A	0.6	
3	☐	1.000		1158721.52		A	0.7	
4	☐	1.000		1138781.05		A	1.1	
5	☐	1.000		1121782.67		A	0.7	
6	☐	1.000		1098050.29		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5144582.62		A	0.2	
2	☐	1.000		5137782.22		A	0.6	
3	☐	1.000		5148852.71		A	1.1	
4	☐	1.000		5123281.63		A	0.7	
5	☐	1.000		4999629.60		A	0.6	
6	☐	1.000		4853657.02		A	0.2	

Calibration for 123_ICV.d



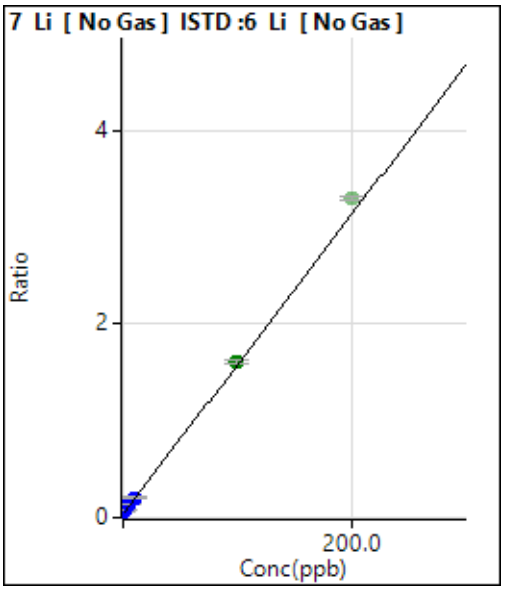
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1	☐	1.000		4944445.55		A	1.4	
2	☐	1.000		4967616.70		A	1.0	
3	☐	1.000		4977585.03		A	0.1	
4	☐	1.000		5040043.05		A	0.3	
5	☐	1.000		4891836.59		A	1.2	
6	☐	1.000		4884540.86		A	0.8	

Calibration for 019_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/25/2024 10:33:10 AM
2	011CALS.d	2/10/200	6/25/2024 10:35:53 AM
3	012CALS.d	5/25/500	6/25/2024 10:38:34 AM
4	013CALS.d	10/50/100	6/25/2024 10:41:15 AM
5	017CALS.d	100/500/10K	6/25/2024 10:54:32 AM
6	015CALS.d	200/1000/20K	6/25/2024 10:46:33 AM

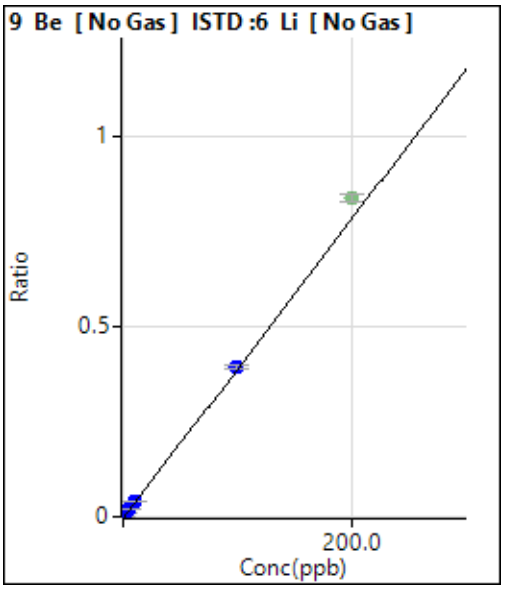
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95109.43	0.0556	P	0.2	
2	☐	2.000	1.920	146884.63	0.0853	P	1.6	-4.0
3	☐	5.000	4.841	218591.44	0.1304	P	1.3	-3.2
4	☐	10.000	9.815	340796.34	0.2073	P	1.2	-1.9
5	☐	100.000	100.028	2490753.19	1.6010	A	2.6	0.0
6	☑	200.000		4828676.80	3.2967	A	1.3	

y = 0.0154 * x + 0.0556
R = 1.0000
DL = 0.02597 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

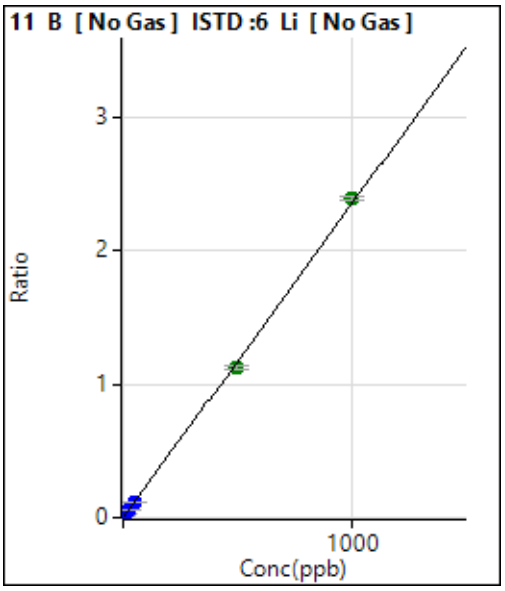


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0002	P	5.8	
2	☐	2.000	1.913	13332.98	0.0077	P	2.5	-4.3
3	☐	5.000	4.795	31982.57	0.0191	P	2.3	-4.1
4	☐	10.000	9.736	63339.98	0.0385	P	1.5	-2.6
5	☐	100.000	100.038	612588.03	0.3938	P	2.9	0.0
6	☑	200.000		1228024.38	0.8384	A	2.0	

y = 0.0039 * x + 2.1639E-004
R = 1.0000
DL = 0.009619 ppb
BEC = 0.055 ppb

Weight: <None>
Min Conc: <None>

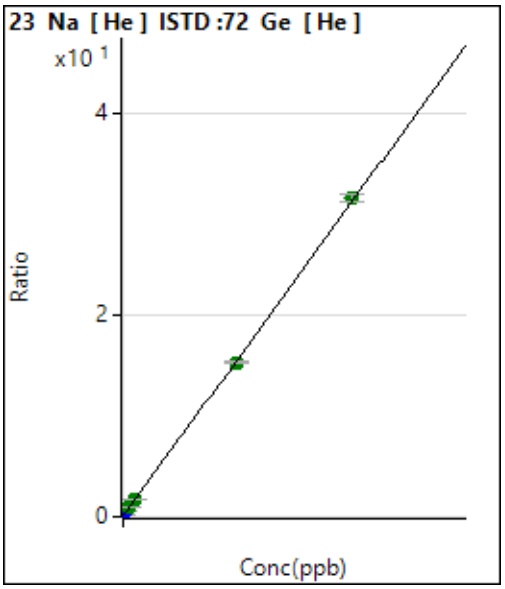
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19585.24	0.0115	P	1.0	
2	☐	10.000	8.404	53786.34	0.0312	P	2.6	-16.0
3	☐	25.000	22.147	106565.72	0.0636	P	0.9	-11.4
4	☐	50.000	46.381	198326.89	0.1206	P	2.3	-7.2
5	☐	500.000	473.544	1751959.19	1.1260	A	1.6	-5.3
6	☐	1000.000	1013.496	3510760.36	2.3969	A	1.3	1.3

y = 0.0024 * x + 0.0115
R = 0.9995
DL = 0.1393 ppb
BEC = 4.866 ppb

Weight: <None>
Min Conc: <None>

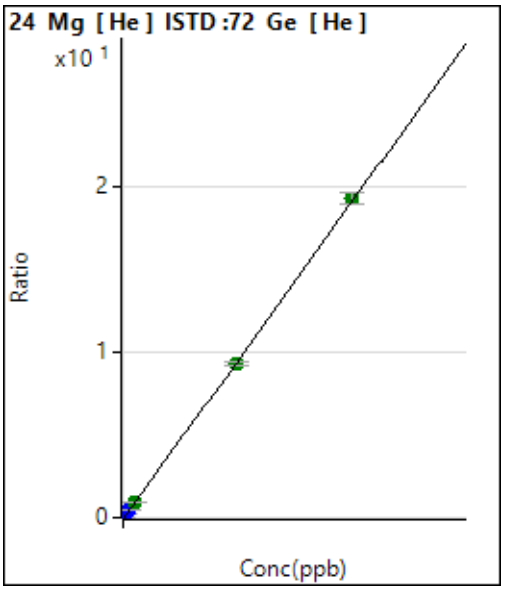


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	288606.42	0.2451	P	1.4	
2	☐	200.000	177.589	622281.82	0.5213	P	1.0	-11.2
3	☐	500.000	473.179	1151604.43	0.9810	A	1.8	-5.4
4	☐	1000.000	977.456	2041607.21	1.7652	A	1.2	-2.3
5	☐	10000.00	9676.744	17407033.07	15.2937	A	1.6	-3.2
6	☐	20000.00	20163.65	3504496448	31.6022	A	2.8	0.8

y = 0.0016 * x + 0.2451
R = 0.9998
DL = 6.411 ppb
BEC = 157.6 ppb

Weight: <None>
Min Conc: <None>

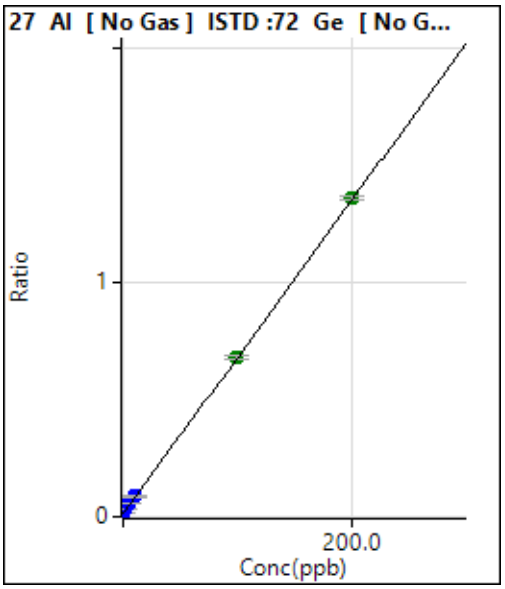
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2800.34	0.0024	P	2.9	
2	☐	200.000	188.332	218868.20	0.1833	P	2.1	-5.8
3	☐	500.000	476.135	539864.42	0.4598	P	1.8	-4.8
4	☐	1000.000	980.631	1092519.88	0.9446	A	1.5	-1.9
5	☐	10000.00	9714.978	10626664.43	9.3364	A	1.8	-2.9
6	☐	20000.00	20144.19	21464943.01	19.3567	A	3.2	0.7

y = 9.6079E-004 * x + 0.0024
R = 0.9999
DL = 0.2145 ppb
BEC = 2.475 ppb

Weight: <None>
Min Conc: <None>

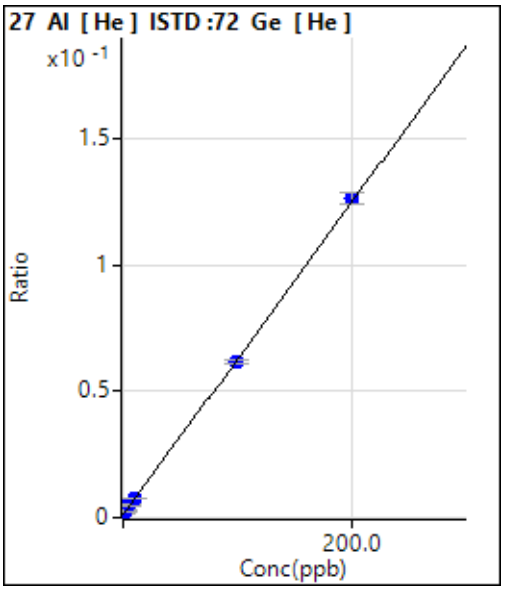


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79772.13	0.0192	P	2.2	
2	☐	2.000	1.525	123569.26	0.0294	P	2.4	-23.8
3	☐	5.000	5.524	232171.49	0.0562	P	7.8	10.5
4	☐	10.000	10.174	358454.78	0.0874	P	2.6	1.7
5	☐	100.000	98.905	2713647.56	0.6822	A	1.7	-1.1
6	☐	200.000	200.531	5281947.84	1.3634	A	1.7	0.3

y = 0.0067 * x + 0.0192
R = 1.0000
DL = 0.1901 ppb
BEC = 2.859 ppb

Weight: <None>
Min Conc: <None>

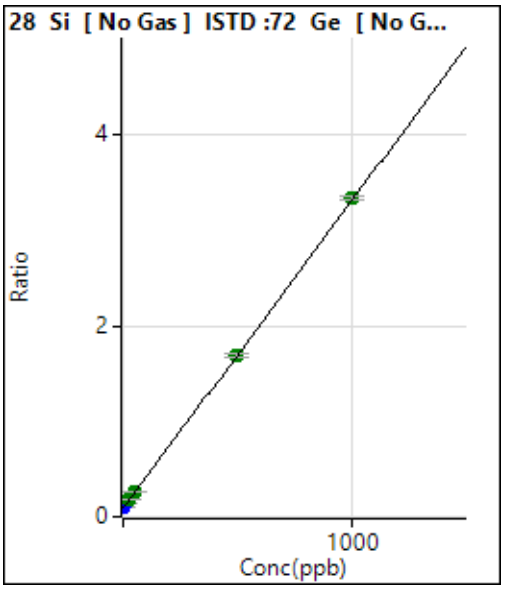
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2066.86	0.0018	P	3.4	
2	☐	2.000	1.406	3137.07	0.0026	P	7.0	-29.7
3	☐	5.000	5.203	5844.66	0.0050	P	1.6	4.1
4	☐	10.000	9.473	8816.28	0.0076	P	5.9	-5.3
5	☐	100.000	96.780	70231.85	0.0617	P	3.0	-3.2
6	☐	200.000	201.637	140454.75	0.1267	P	3.5	0.8

y = 6.1944E-004 * x + 0.0018
R = 0.9998
DL = 0.2864 ppb
BEC = 2.834 ppb

Weight: <None>
Min Conc: <None>

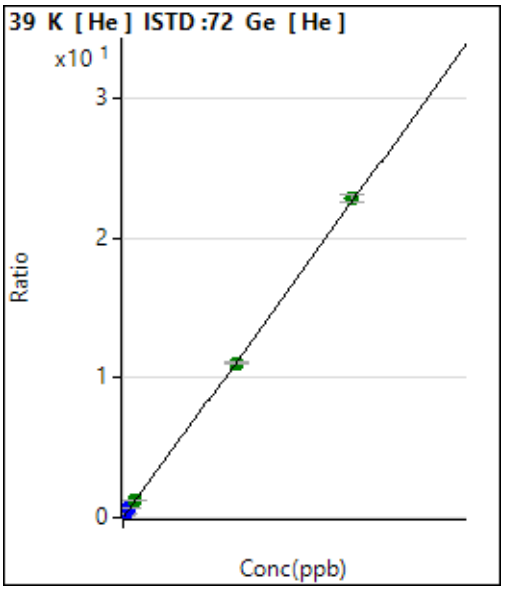


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	438318.65	0.1053	P	0.4	
2	☐	10.000	9.287	568752.14	0.1353	P	0.2	-7.1
3	☐	25.000	24.351	759668.97	0.1839	A	0.1	-2.6
4	☐	50.000	49.749	1090527.61	0.2658	A	1.3	-0.5
5	☐	500.000	492.180	6734428.23	1.6930	A	1.8	-1.6
6	☐	1000.000	1003.946	12953963.98	3.3438	A	1.5	0.4

y = 0.0032 * x + 0.1053
R = 1.0000
DL = 0.4316 ppb
BEC = 32.65 ppb

Weight: <None>
Min Conc: <None>

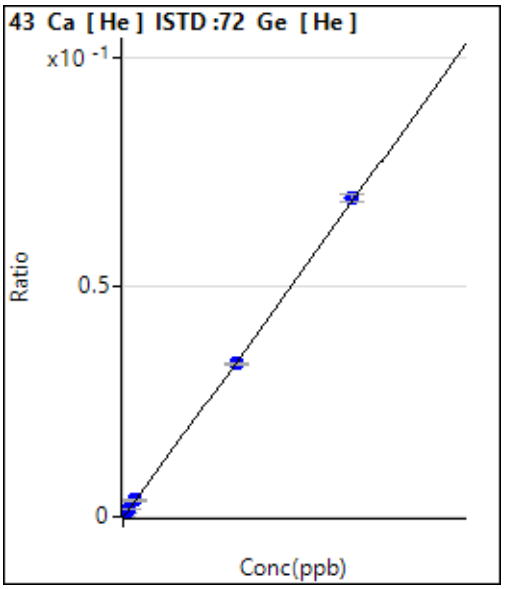
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	119097.76	0.1011	P	0.3	
2	☐	200.000	186.455	372135.50	0.3117	P	0.3	-6.8
3	☐	500.000	475.349	748983.87	0.6380	P	1.9	-4.9
4	☐	1000.000	982.636	1400574.72	1.2109	A	1.3	-1.7
5	☐	10000.00	9705.924	12591435.65	11.0629	A	1.7	-2.9
6	☐	20000.00	20148.65	25347163.79	22.8567	A	2.3	0.7

y = 0.0011 * x + 0.1011
R = 0.9999
DL = 0.6747 ppb
BEC = 89.55 ppb

Weight: <None>
Min Conc: <None>

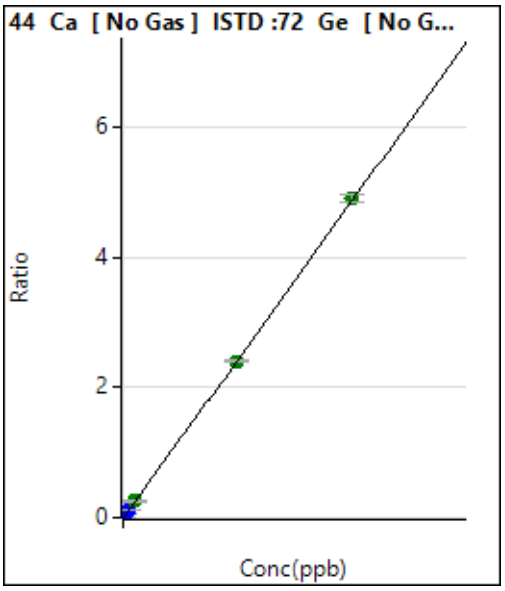


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	44.0	
2	☐	200.000	220.012	956.72	0.0008	P	6.9	10.0
3	☐	500.000	475.202	1970.17	0.0017	P	1.5	-5.0
4	☐	1000.000	1040.743	4187.37	0.0036	P	5.6	4.1
5	☐	10000.00	9668.254	37855.14	0.0333	P	1.7	-3.3
6	☐	20000.00	20164.25	76871.75	0.0693	P	2.5	0.8

y = 3.4355E-006 * x + 4.5378E-005
R = 0.9998
DL = 17.45 ppb
BEC = 13.21 ppb

Weight: <None>
Min Conc: <None>

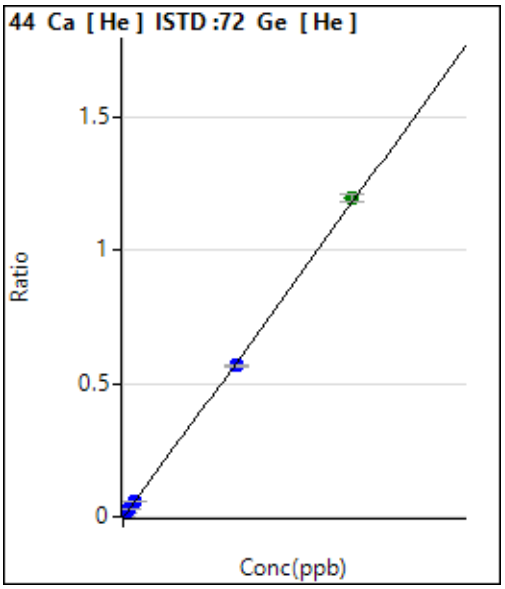
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54075.33	0.0130	P	1.7	
2	☐	200.000	198.146	257829.67	0.0613	P	1.6	-0.9
3	☐	500.000	486.430	543875.83	0.1316	P	2.3	-2.7
4	☐	1000.000	981.332	1035362.72	0.2524	A	1.5	-1.9
5	☐	10000.00	9825.374	9584837.57	2.4095	A	2.1	-1.7
6	☐	20000.00	20088.60	19032093.05	4.9128	A	2.3	0.4

y = 2.4391E-004 * x + 0.0130
R = 0.9999
DL = 2.69 ppb
BEC = 53.27 ppb

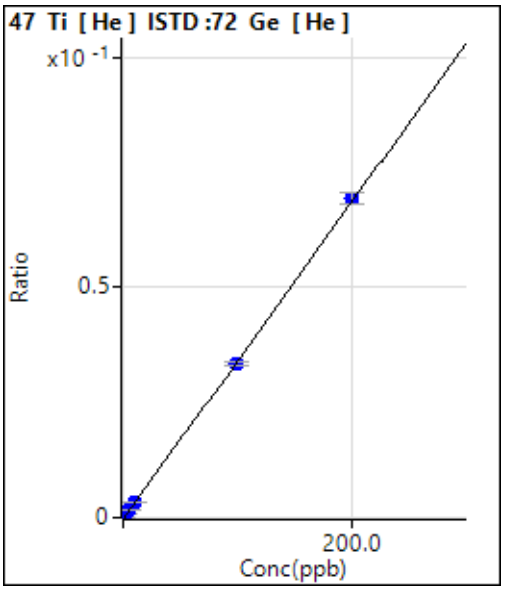
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	15.2	
2	☐	200.000	193.959	15048.30	0.0126	P	2.3	-3.0
3	☐	500.000	468.624	33828.14	0.0288	P	1.5	-6.3
4	☐	1000.000	970.349	67563.50	0.0584	P	2.2	-3.0
5	☐	10000.00	9557.200	643072.29	0.5650	P	1.4	-4.4
6	☐	20000.00	20223.72	1324475.06	1.1943	A	2.6	1.1

y = 5.8999E-005 * x + 0.0012
R = 0.9997
DL = 9 ppb
BEC = 19.72 ppb

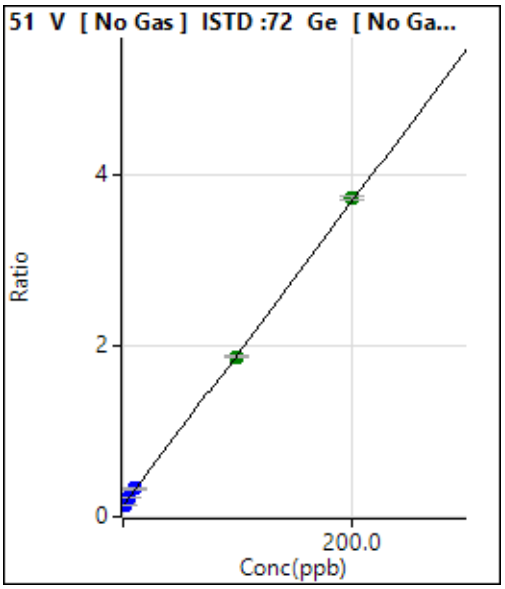
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	44.0	
2	☐	2.000	1.824	776.70	0.0007	P	5.7	-8.8
3	☐	5.000	4.469	1833.49	0.0016	P	12.4	-10.6
4	☐	10.000	9.439	3783.92	0.0033	P	4.4	-5.6
5	☐	100.000	97.296	38132.74	0.0335	P	2.0	-2.7
6	☐	200.000	201.395	76872.09	0.0693	P	3.7	0.7

y = 3.4411E-004 * x + 2.2689E-005
R = 0.9999
DL = 0.08712 ppb
BEC = 0.06593 ppb

Weight: <None>
Min Conc: <None>

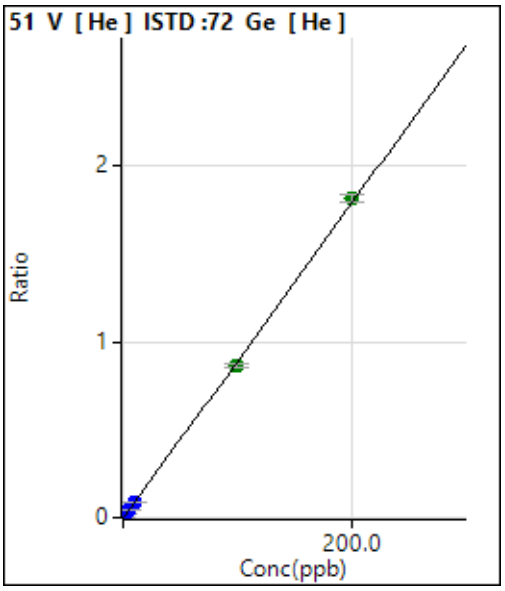


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	623488.18	0.1498	P	1.4	
2	☐	2.000	-0.404	599723.22	0.1426	P	1.6	-120.2
3	☐	5.000	4.124	921434.11	0.2230	P	1.8	-17.5
4	☐	10.000	9.910	1336488.84	0.3257	P	1.1	-0.9
5	☐	100.000	96.962	7443170.55	1.8711	A	1.6	-3.0
6	☐	200.000	201.570	14443088.49	3.7282	A	1.8	0.8

y = 0.0178 * x + 0.1498
R = 0.9998
DL = 0.3599 ppb
BEC = 8.439 ppb

Weight: <None>
Min Conc: <None>

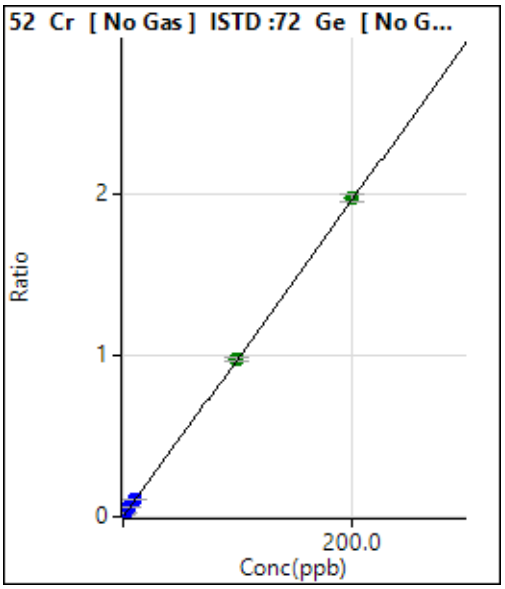
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5106.53	0.0043	P	1.3	
2	☐	2.000	1.750	23909.53	0.0200	P	1.6	-12.5
3	☐	5.000	4.697	54554.53	0.0465	P	2.7	-6.1
4	☐	10.000	9.668	105327.92	0.0911	P	2.7	-3.3
5	☐	100.000	95.893	984011.87	0.8645	A	1.7	-4.1
6	☐	200.000	202.080	2015089.64	1.8171	A	3.0	1.0

y = 0.0090 * x + 0.0043
R = 0.9997
DL = 0.01826 ppb
BEC = 0.4834 ppb

Weight: <None>
Min Conc: <None>

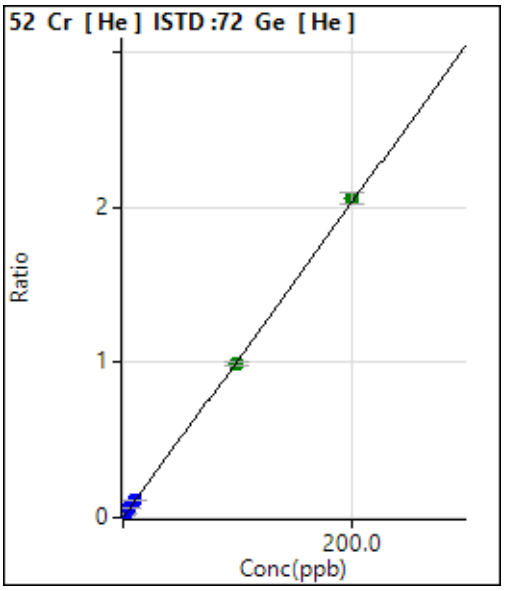


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37434.31	0.0090	P	2.1	
2	☐	2.000	1.766	110679.48	0.0263	P	1.8	-11.7
3	☐	5.000	4.828	232859.77	0.0564	P	1.3	-3.4
4	☐	10.000	9.872	434256.59	0.1058	P	1.5	-1.3
5	☐	100.000	98.544	3881322.96	0.9757	A	1.8	-1.5
6	☐	200.000	200.741	7663884.26	1.9783	A	1.9	0.4

y = 0.0098 * x + 0.0090
R = 1.0000
DL = 0.05682 ppb
BEC = 0.9169 ppb

Weight: <None>
Min Conc: <None>

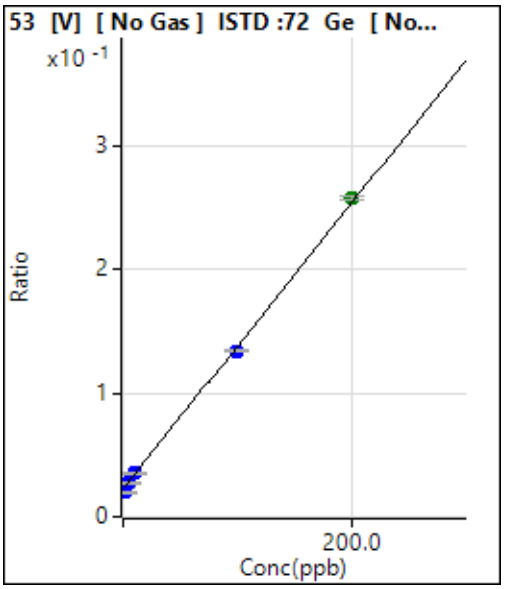
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12652.62	0.0107	P	4.0	
2	☐	2.000	1.538	31466.12	0.0264	P	1.3	-23.1
3	☐	5.000	4.828	70170.90	0.0598	P	2.5	-3.4
4	☐	10.000	9.941	129188.69	0.1117	P	2.7	-0.6
5	☐	100.000	96.416	1126568.11	0.9898	A	2.4	-3.6
6	☐	200.000	201.804	2284256.84	2.0599	A	3.2	0.9

y = 0.0102 * x + 0.0107
R = 0.9998
DL = 0.1276 ppb
BEC = 1.058 ppb

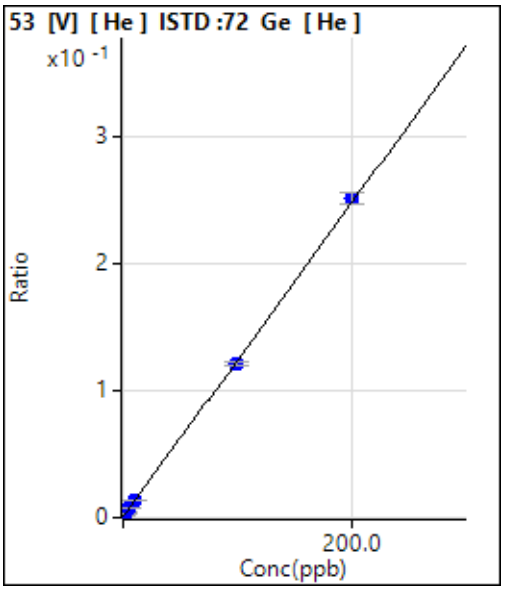
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101036.73	0.0243	P	1.8	
2	☐	2.000	-4.140	81968.87	0.0195	P	2.1	-307.0
3	☐	5.000	2.731	113331.30	0.0274	P	2.6	-45.4
4	☐	10.000	9.394	144120.20	0.0351	P	0.9	-6.1
5	☐	100.000	95.281	534242.26	0.1343	P	1.3	-4.7
6	☐	200.000	202.508	999993.19	0.2581	A	1.4	1.3

y = 0.0012 * x + 0.0243
R = 0.9994
DL = 1.125 ppb
BEC = 21.02 ppb

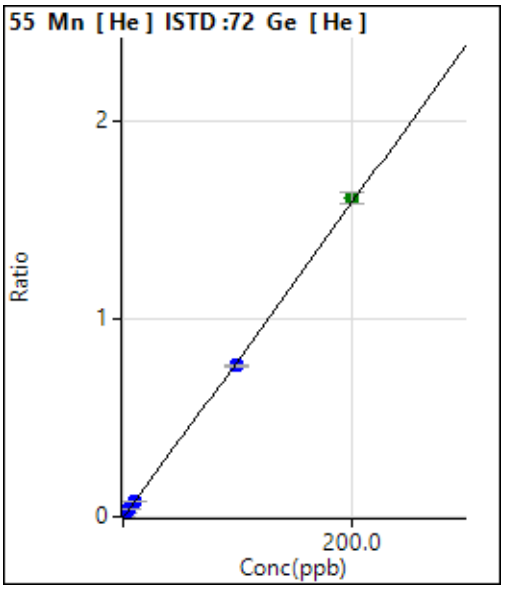
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2336.92	0.0020	P	0.1	
2	☐	2.000	1.449	4500.82	0.0038	P	3.2	-27.5
3	☐	5.000	4.493	8833.00	0.0075	P	6.0	-10.1
4	☐	10.000	9.573	15946.03	0.0138	P	1.4	-4.3
5	☐	100.000	96.223	137279.10	0.1206	P	2.1	-3.8
6	☐	200.000	201.928	278261.94	0.2509	P	3.1	1.0

y = 0.0012 * x + 0.0020
R = 0.9998
DL = 0.003174 ppb
BEC = 1.61 ppb

Weight: <None>
Min Conc: <None>

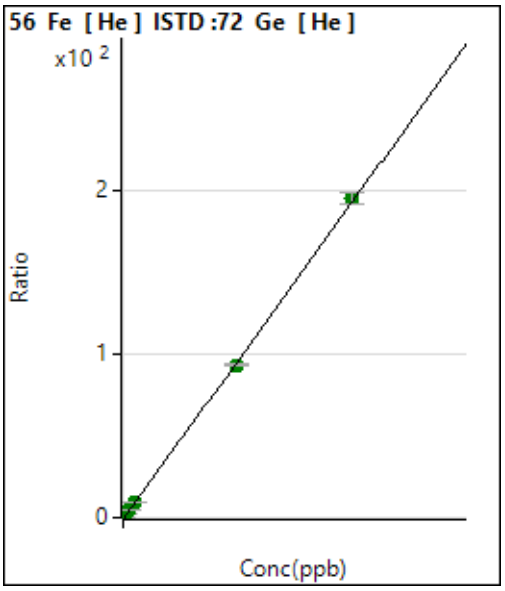


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1773.48	0.0015	P	5.5	
2	☐	2.000	1.839	19250.32	0.0161	P	2.2	-8.0
3	☐	5.000	4.861	47140.58	0.0402	P	1.7	-2.8
4	☐	10.000	9.816	92011.73	0.0795	P	2.8	-1.8
5	☐	100.000	95.630	867052.17	0.7618	P	1.4	-4.4
6	☐	200.000	202.199	1784314.40	1.6091	A	3.4	1.1

y = 0.0080 * x + 0.0015
R = 0.9997
DL = 0.03105 ppb
BEC = 0.1895 ppb

Weight: <None>
Min Conc: <None>

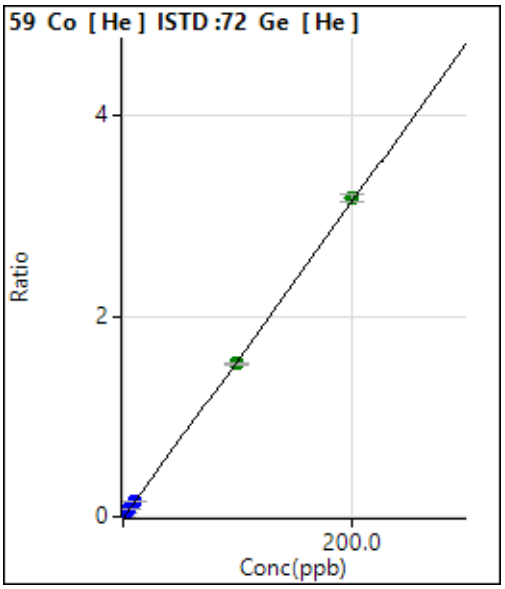
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43278.54	0.0367	P	0.9	
2	☐	200.000	188.123	2218554.55	1.8583	A	1.2	-5.9
3	☐	500.000	480.763	5508640.75	4.6918	A	2.3	-3.8
4	☐	1000.000	985.434	11078721.09	9.5783	A	2.2	-1.5
5	☐	10000.00	9640.722	106286848.4	93.3839	A	1.3	-3.6
6	☐	20000.00	20180.96	216728676.7	195.440	A	3.2	0.9

y = 0.0097 * x + 0.0367
R = 0.9998
DL = 0.1028 ppb
BEC = 3.795 ppb

Weight: <None>
Min Conc: <None>

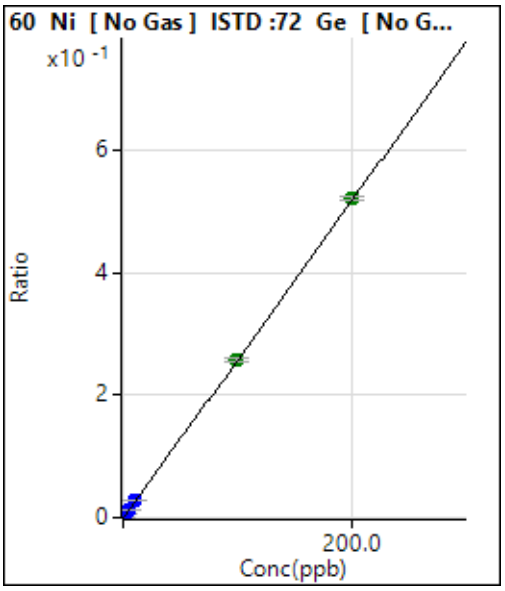


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1033.39	0.0009	P	12.3	
2	☐	2.000	1.923	37253.94	0.0312	P	4.1	-3.9
3	☐	5.000	4.873	91277.55	0.0777	P	3.4	-2.5
4	☐	10.000	10.047	184353.51	0.1594	P	2.7	0.5
5	☐	100.000	96.844	1739956.22	1.5287	A	1.6	-3.2
6	☐	200.000	201.580	3527645.26	3.1810	A	2.4	0.8

y = 0.0158 * x + 8.7793E-004
R = 0.9998
DL = 0.02052 ppb
BEC = 0.05565 ppb

Weight: <None>
Min Conc: <None>

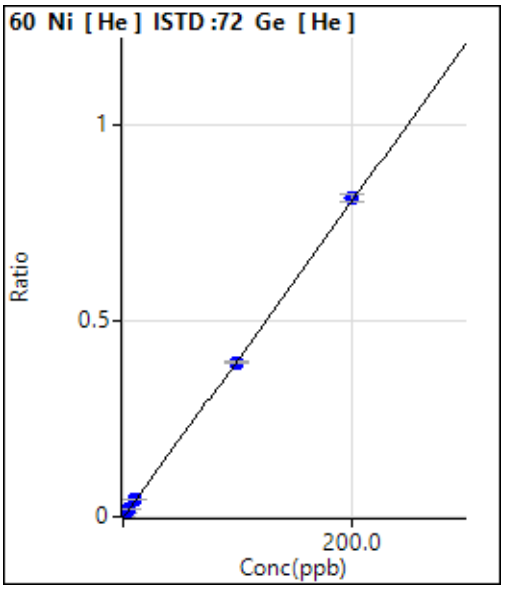
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4237.40	0.0010	P	1.1	
2	☐	2.000	1.918	25250.18	0.0060	P	1.5	-4.1
3	☐	5.000	4.998	57898.44	0.0140	P	2.2	0.0
4	☐	10.000	10.113	112049.36	0.0273	P	1.1	1.1
5	☐	100.000	98.616	1023925.77	0.2574	A	2.1	-1.4
6	☐	200.000	200.687	2025283.09	0.5228	A	1.4	0.3

y = 0.0026 * x + 0.0010
R = 1.0000
DL = 0.01257 ppb
BEC = 0.3916 ppb

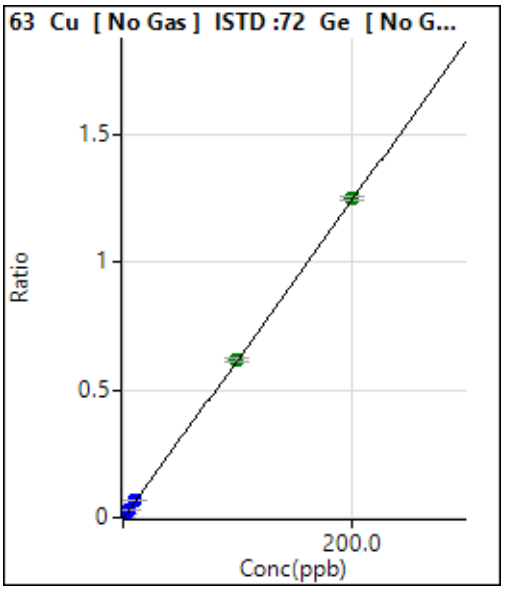
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	2.3	
2	☐	2.000	1.973	10907.82	0.0091	P	7.7	-1.3
3	☐	5.000	4.850	24391.83	0.0208	P	2.6	-3.0
4	☐	10.000	10.255	49315.27	0.0426	P	2.2	2.6
5	☐	100.000	97.350	449400.83	0.3948	P	1.8	-2.7
6	☐	200.000	201.316	904123.53	0.8153	P	2.0	0.7

y = 0.0040 * x + 0.0012
R = 0.9999
DL = 0.0196 ppb
BEC = 0.2877 ppb

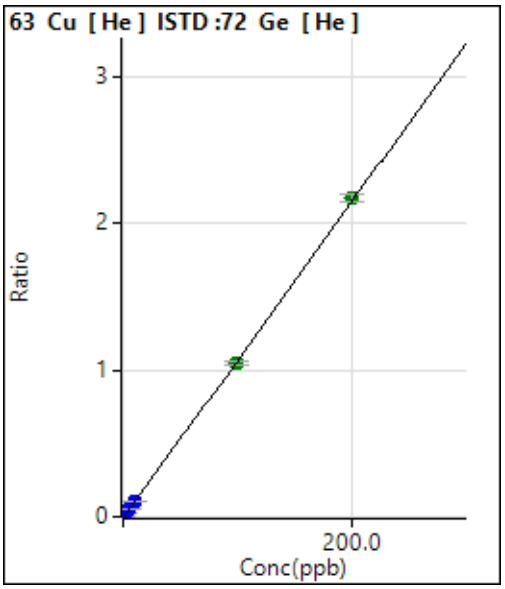
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7608.90	0.0018	P	4.3	
2	☐	2.000	2.006	60252.13	0.0143	P	3.6	0.3
3	☐	5.000	5.060	137858.86	0.0334	P	2.6	1.2
4	☐	10.000	10.184	267930.58	0.0653	P	2.0	1.8
5	☐	100.000	98.992	2461635.85	0.6188	A	1.8	-1.0
6	☐	200.000	200.493	4848458.99	1.2515	A	1.2	0.2

y = 0.0062 * x + 0.0018
R = 1.0000
DL = 0.03749 ppb
BEC = 0.2933 ppb

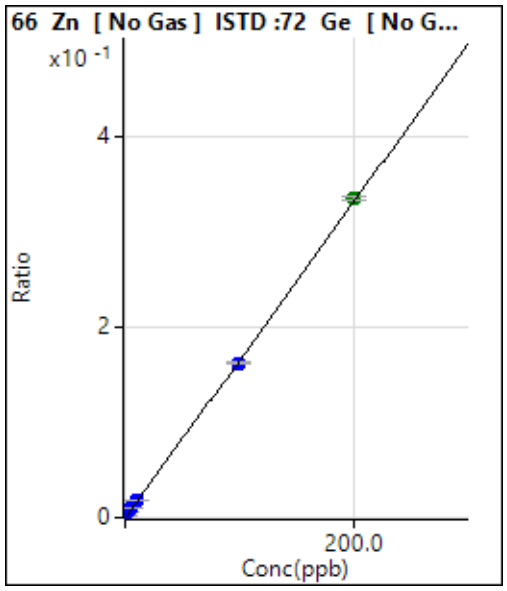
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.09	0.0011	P	16.3	
2	☐	2.000	1.925	26111.82	0.0219	P	2.4	-3.8
3	☐	5.000	4.936	63848.37	0.0544	P	1.2	-1.3
4	☐	10.000	10.015	126312.89	0.1092	P	0.4	0.1
5	☐	100.000	96.995	1193030.61	1.0482	A	1.7	-3.0
6	☐	200.000	201.504	2413664.39	2.1764	A	1.8	0.8

y = 0.0108 * x + 0.0011
R = 0.9998
DL = 0.04961 ppb
BEC = 0.1014 ppb

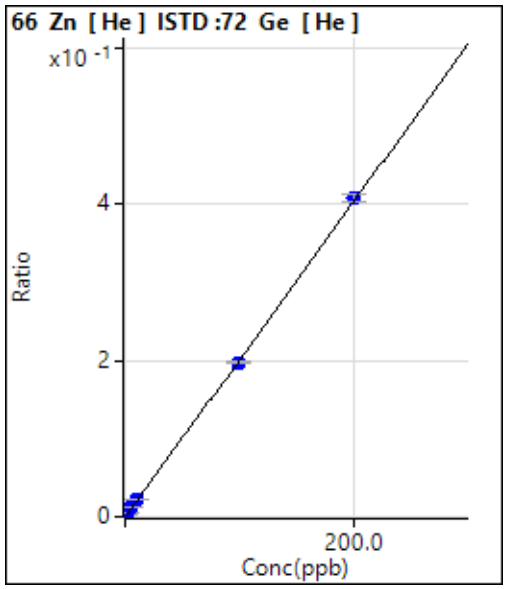
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4424.13	0.0011	P	4.0	
2	☐	2.000	2.492	21897.70	0.0052	P	3.4	24.6
3	☐	5.000	5.019	38885.42	0.0094	P	4.4	0.4
4	☐	10.000	10.061	73027.29	0.0178	P	1.2	0.6
5	☐	100.000	97.306	648074.41	0.1629	P	2.0	-2.7
6	☐	200.000	201.339	1301588.63	0.3360	A	1.5	0.7

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.07603 ppb
BEC = 0.639 ppb

Weight: <None>
Min Conc: <None>

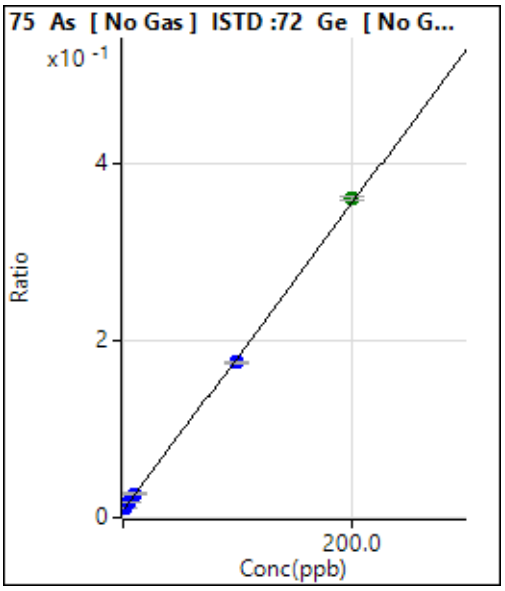


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1546.78	0.0013	P	6.9	
2	☐	2.000	2.350	7238.72	0.0061	P	0.9	17.5
3	☐	5.000	4.954	13299.97	0.0113	P	3.7	-0.9
4	☐	10.000	10.064	25053.27	0.0217	P	1.3	0.6
5	☐	100.000	97.122	224987.90	0.1977	P	1.9	-2.9
6	☐	200.000	201.433	453103.39	0.4086	P	2.6	0.7

y = 0.0020 * x + 0.0013
R = 0.9998
DL = 0.1336 ppb
BEC = 0.6498 ppb

Weight: <None>
Min Conc: <None>

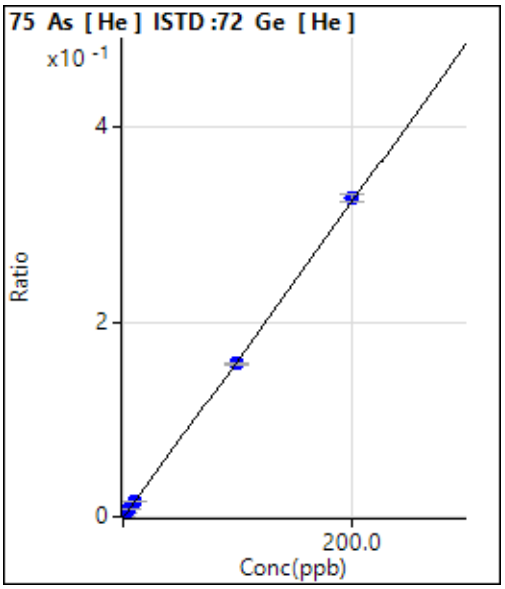
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41420.07	0.0100	P	2.2	
2	☐	2.000	0.174	43111.79	0.0103	P	0.8	-91.3
3	☐	5.000	4.236	71393.00	0.0173	P	2.2	-15.3
4	☐	10.000	9.765	110125.14	0.0268	P	2.7	-2.4
5	☐	100.000	95.313	695363.61	0.1748	P	1.6	-4.7
6	☐	200.000	202.393	1394740.55	0.3600	A	1.6	1.2

y = 0.0017 * x + 0.0100
R = 0.9996
DL = 0.3786 ppb
BEC = 5.754 ppb

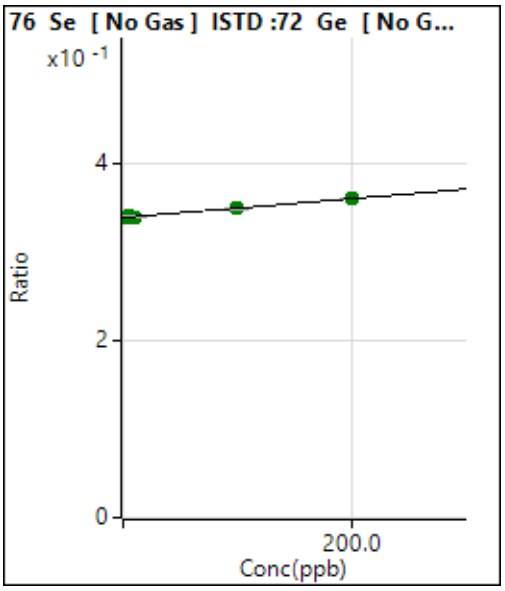
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	356.67	0.0003	P	6.9	
2	☐	2.000	1.841	3928.36	0.0033	P	3.7	-7.9
3	☐	5.000	4.835	9564.50	0.0081	P	4.6	-3.3
4	☐	10.000	9.803	18745.11	0.0162	P	1.3	-2.0
5	☐	100.000	96.787	179057.99	0.1573	P	1.7	-3.2
6	☐	200.000	201.622	363060.04	0.3274	P	2.6	0.8

y = 0.0016 * x + 3.0293E-004
R = 0.9998
DL = 0.03847 ppb
BEC = 0.1867 ppb

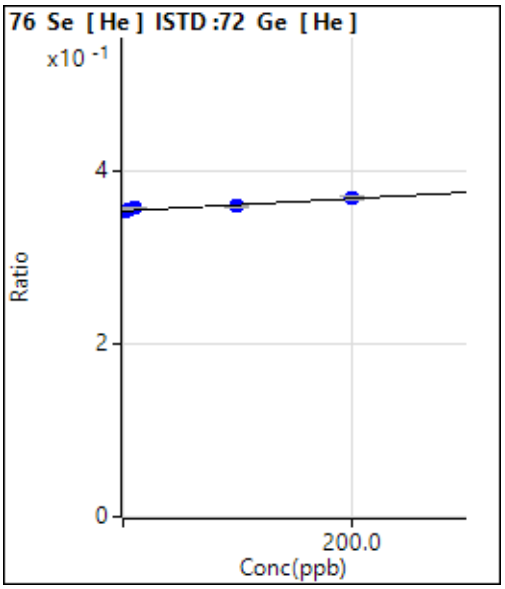
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1411471.07	0.3391	A	0.2	
2	☐	2.000	-6.447	1422952.53	0.3384	A	0.7	-422.4
3	☐	5.000	11.669	1406365.14	0.3404	A	0.6	133.4
4	☐	10.000	6.783	1394506.23	0.3399	A	0.4	-32.2
5	☐	100.000	95.860	1390091.65	0.3495	A	0.5	-4.1
6	☐	200.000	202.148	1398200.03	0.3609	A	0.3	1.1

y = 1.0766E-004 * x + 0.3391
R = 0.9980
DL = 22.78 ppb
BEC = 3150 ppb

Weight: <None>
Min Conc: <None>

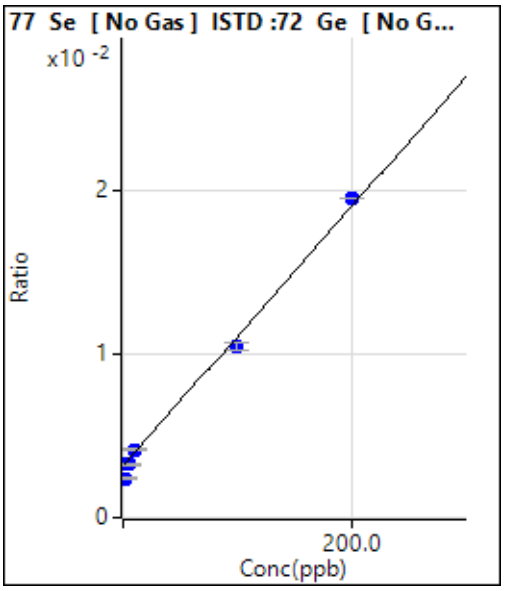


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416216.30	0.3534	P	0.2	
2	☐	2.000	-11.688	420892.72	0.3526	P	1.0	-684.4
3	☐	5.000	21.482	416774.79	0.3550	P	0.9	329.6
4	☐	10.000	49.882	412980.25	0.3571	P	0.7	398.8
5	☐	100.000	78.995	408769.76	0.3592	P	0.4	-21.0
6	☐	200.000	208.233	408732.73	0.3686	P	1.5	4.1

y = 7.2568E-005 * x + 0.3534
R = 0.9636
DL = 35.82 ppb
BEC = 4870 ppb

Weight: <None>
Min Conc: <None>

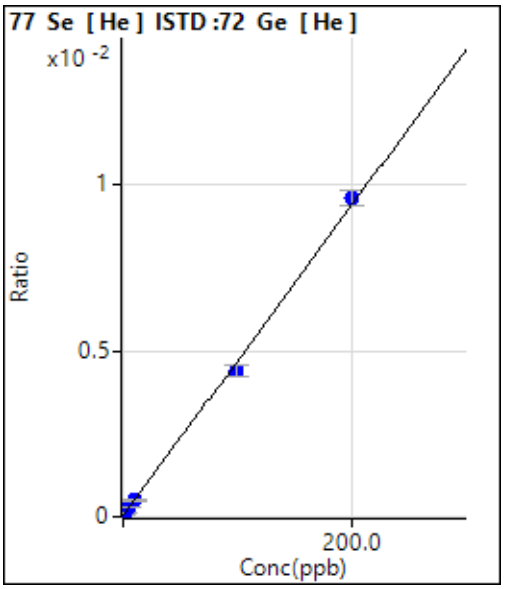
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13703.79	0.0033	P	1.8	
2	☐	2.000	-11.125	10137.27	0.0024	P	3.9	-656.3
3	☐	5.000	-0.623	13400.07	0.0032	P	2.7	-112.5
4	☐	10.000	10.886	17050.96	0.0042	P	2.4	8.9
5	☐	100.000	90.162	41516.84	0.0104	P	4.7	-9.8
6	☐	200.000	205.146	75736.43	0.0195	P	0.3	2.6

y = 7.9240E-005 * x + 0.0033
R = 0.9972
DL = 2.21 ppb
BEC = 41.55 ppb

Weight: <None>
Min Conc: <None>

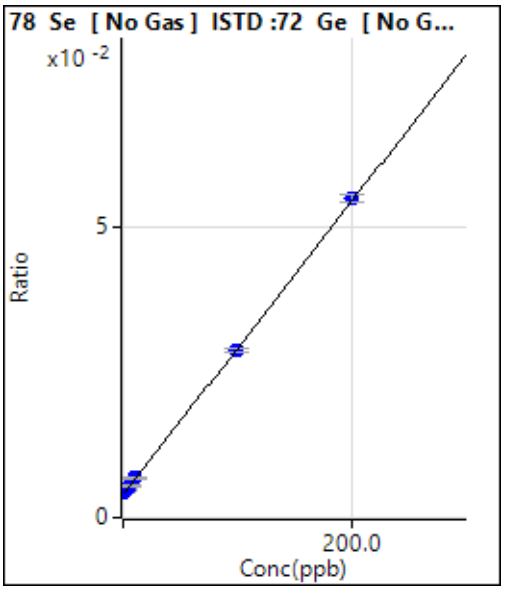


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	6.5	
2	☐	2.000	1.111	156.67	0.0001	P	8.5	-44.4
3	☐	5.000	4.796	356.68	0.0003	P	8.8	-4.1
4	☐	10.000	8.887	573.36	0.0005	P	8.1	-11.1
5	☐	100.000	92.779	5034.34	0.0044	P	8.2	-7.2
6	☐	200.000	203.680	10667.72	0.0096	P	4.4	1.8

y = 4.6838E-005 * x + 7.9270E-005
R = 0.9991
DL = 0.3311 ppb
BEC = 1.692 ppb

Weight: <None>
Min Conc: <None>

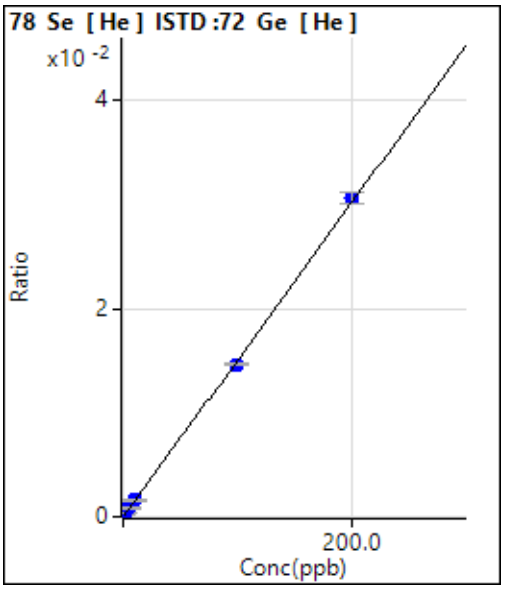
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17611.61	0.0042	P	2.6	
2	☐	2.000	2.103	20014.94	0.0048	P	2.4	5.2
3	☐	5.000	4.648	22311.83	0.0054	P	1.9	-7.0
4	☐	10.000	10.145	27828.68	0.0068	P	1.1	1.5
5	☐	100.000	97.785	114635.87	0.0288	P	2.4	-2.2
6	☐	200.000	201.108	212292.33	0.0548	P	2.0	0.6

y = 2.5143E-004 * x + 0.0042
R = 0.9999
DL = 1.302 ppb
BEC = 16.83 ppb

Weight: <None>
Min Conc: <None>

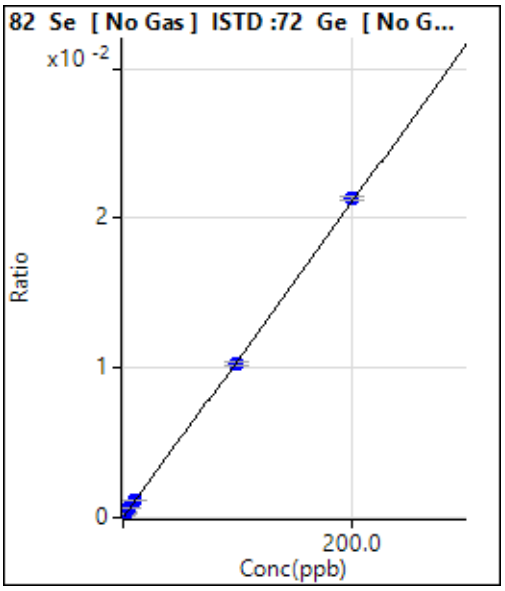


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	158.67	0.0001	P	8.1	
2	☐	2.000	2.023	525.34	0.0004	P	6.2	1.2
3	☐	5.000	4.647	981.37	0.0008	P	4.6	-7.1
4	☐	10.000	9.711	1850.80	0.0016	P	4.8	-2.9
5	☐	100.000	96.045	16650.84	0.0146	P	1.7	-4.0
6	☐	200.000	202.001	33953.46	0.0306	P	3.5	1.0

y = 1.5091E-004 * x + 1.3471E-004
R = 0.9997
DL = 0.216 ppb
BEC = 0.8926 ppb

Weight: <None>
Min Conc: <None>

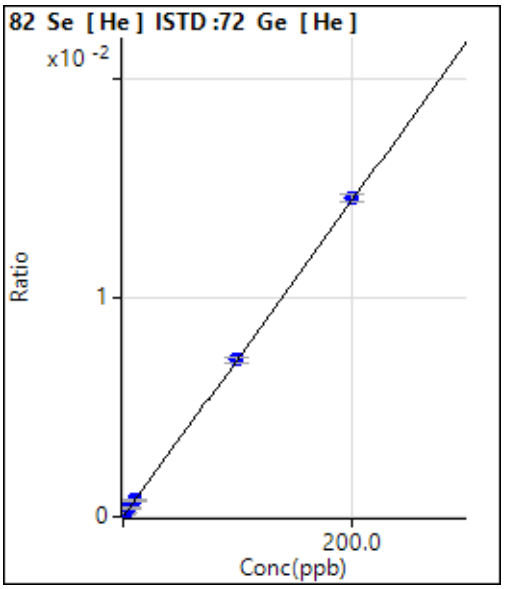
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	25.5	
2	☐	2.000	1.939	1290.09	0.0003	P	19.5	-3.1
3	☐	5.000	4.748	2490.28	0.0006	P	1.2	-5.0
4	☐	10.000	9.887	4694.22	0.0011	P	3.6	-1.1
5	☐	100.000	96.838	40985.51	0.0103	P	1.8	-3.2
6	☐	200.000	201.593	82664.00	0.0213	P	1.8	0.8

y = 1.0534E-004 * x + 1.0258E-004
R = 0.9998
DL = 0.7442 ppb
BEC = 0.9739 ppb

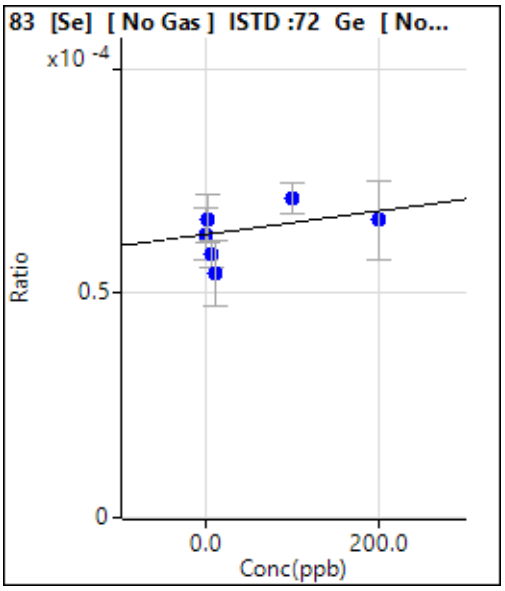
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	22.0	
2	☐	2.000	1.461	206.68	0.0002	P	20.2	-26.9
3	☐	5.000	4.684	476.68	0.0004	P	20.7	-6.3
4	☐	10.000	9.567	876.71	0.0008	P	9.0	-4.3
5	☐	100.000	98.378	8149.25	0.0072	P	3.4	-1.6
6	☐	200.000	200.846	16133.29	0.0145	P	2.0	0.4

y = 7.2094E-005 * x + 6.7964E-005
R = 1.0000
DL = 0.621 ppb
BEC = 0.9427 ppb

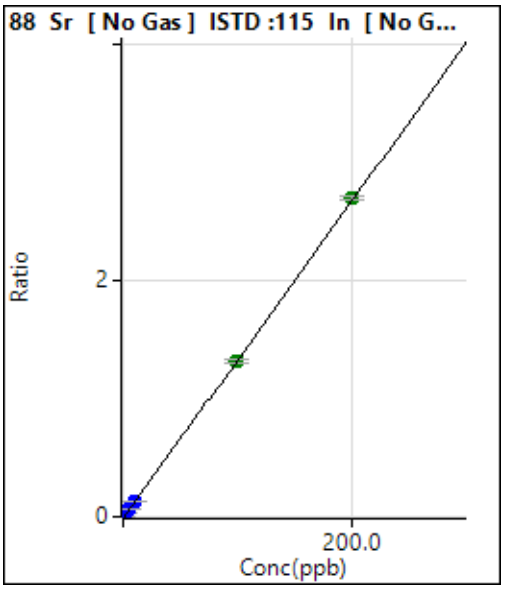
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	18.4	
2	☐	2.000	128.285	280.01	0.0001	P	16.3	6314.2
3	☐	5.000	-167.283	243.34	0.0001	P	10.2	-3445.7
4	☐	10.000	-339.012	223.34	0.0001	P	26.7	-3490.1
5	☐	100.000	305.817	283.34	0.0001	P	10.1	205.8
6	☐	200.000	117.586	256.68	0.0001	P	26.6	-41.2

y = 2.6064E-008 * x + 6.3252E-005
R = 0.5062
DL = 1341 ppb
BEC = 2427 ppb

Weight: <None>
Min Conc: <None>

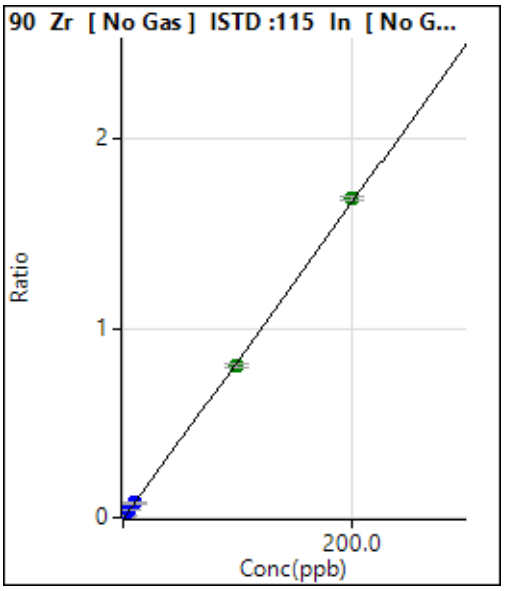


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4904.32	0.0009	P	7.3	
2	☐	2.000	1.864	137527.00	0.0259	P	1.2	-6.8
3	☐	5.000	4.711	337079.14	0.0641	P	1.1	-5.8
4	☐	10.000	9.534	674025.95	0.1287	P	0.6	-4.7
5	☐	100.000	97.841	6609469.07	1.3123	A	2.4	-2.2
6	☐	200.000	201.111	13219901.88	2.6964	A	1.3	0.6

y = 0.0134 * x + 9.2501E-004
R = 0.9999
DL = 0.01507 ppb
BEC = 0.06902 ppb

Weight: <None>
Min Conc: <None>

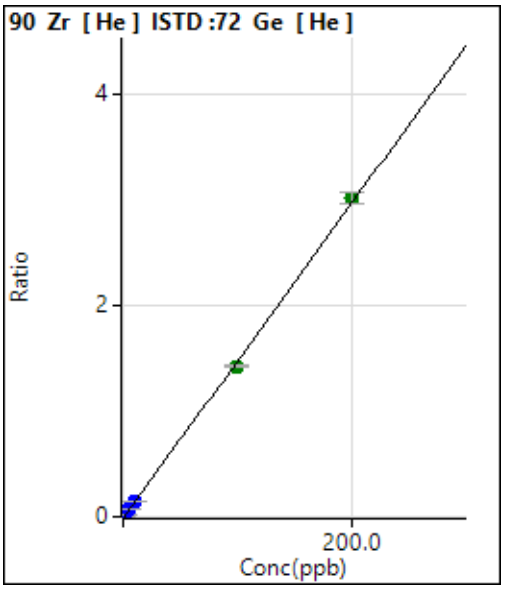
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2100.20	0.0004	P	19.4	
2	☐	2.000	1.596	72866.28	0.0137	P	1.3	-20.2
3	☐	5.000	4.327	192226.04	0.0365	P	1.7	-13.5
4	☐	10.000	9.154	402526.14	0.0769	P	1.8	-8.5
5	☐	100.000	96.419	4058347.96	0.8058	A	2.6	-3.6
6	☐	200.000	201.854	8268343.63	1.6864	A	1.4	0.9

y = 0.0084 * x + 3.9617E-004
R = 0.9998
DL = 0.02754 ppb
BEC = 0.04743 ppb

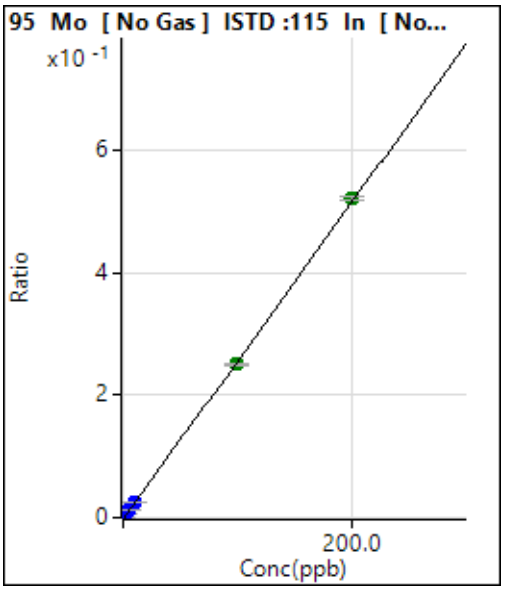
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0017	P	2.1	
2	☐	2.000	1.597	30474.83	0.0255	P	1.3	-20.2
3	☐	5.000	4.306	77360.72	0.0659	P	3.7	-13.9
4	☐	10.000	9.243	161276.68	0.1394	P	2.1	-7.6
5	☐	100.000	95.413	1619902.21	1.4232	A	2.0	-4.6
6	☐	200.000	202.353	3344962.35	3.0164	A	3.1	1.2

y = 0.0149 * x + 0.0017
R = 0.9997
DL = 0.007522 ppb
BEC = 0.1167 ppb

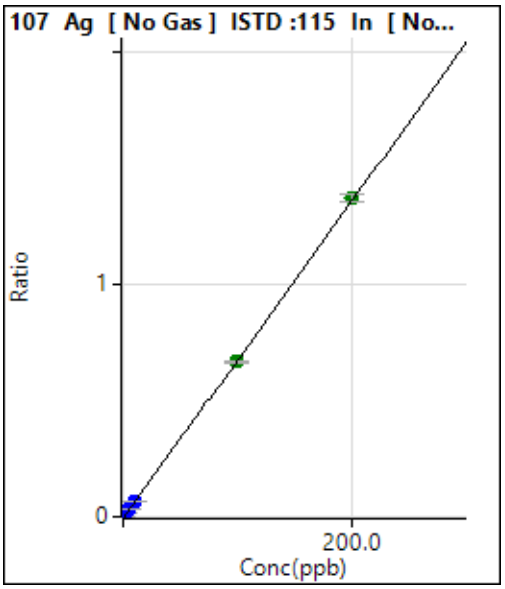
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0001	P	21.2	
2	☐	2.000	1.886	26265.88	0.0049	P	4.8	-5.7
3	☐	5.000	4.791	65532.40	0.0125	P	2.1	-4.2
4	☐	10.000	9.571	129939.16	0.0248	P	2.1	-4.3
5	☐	100.000	96.791	1260475.16	0.2503	A	2.0	-3.2
6	☐	200.000	201.632	2555596.78	0.5213	A	1.5	0.8

y = 0.0026 * x + 7.2253E-005
R = 0.9998
DL = 0.01779 ppb
BEC = 0.02795 ppb

Weight: <None>
Min Conc: <None>

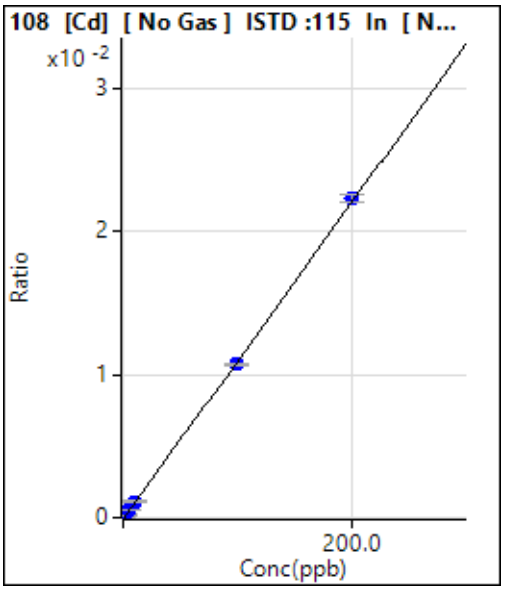


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1473.44	0.0003	P	9.2	
2	☐	2.000	1.978	73196.34	0.0138	P	2.4	-1.1
3	☐	5.000	4.937	178888.02	0.0340	P	1.2	-1.3
4	☐	10.000	9.934	356860.89	0.0681	P	1.9	-0.7
5	☐	100.000	97.700	3362962.35	0.6677	A	1.4	-2.3
6	☐	200.000	201.155	6738256.15	1.3744	A	2.2	0.6

y = 0.0068 * x + 2.7790E-004
R = 0.9999
DL = 0.01118 ppb
BEC = 0.04068 ppb

Weight: <None>
Min Conc: <None>

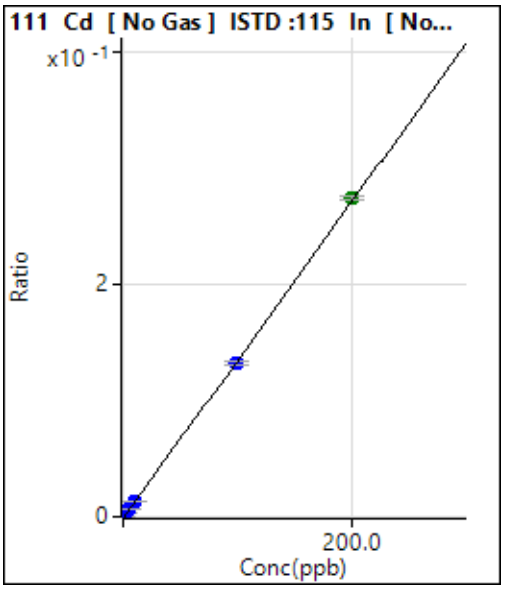
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	99.8	
2	☐	2.000	1.758	1053.40	0.0002	P	16.5	-12.1
3	☐	5.000	4.930	2893.71	0.0006	P	4.1	-1.4
4	☐	10.000	10.251	5968.10	0.0011	P	3.4	2.5
5	☐	100.000	96.634	53948.86	0.0107	P	1.3	-3.4
6	☐	200.000	201.674	109577.53	0.0224	P	1.9	0.8

y = 1.1080E-004 * x + 3.7564E-006
R = 0.9998
DL = 0.1015 ppb
BEC = 0.0339 ppb

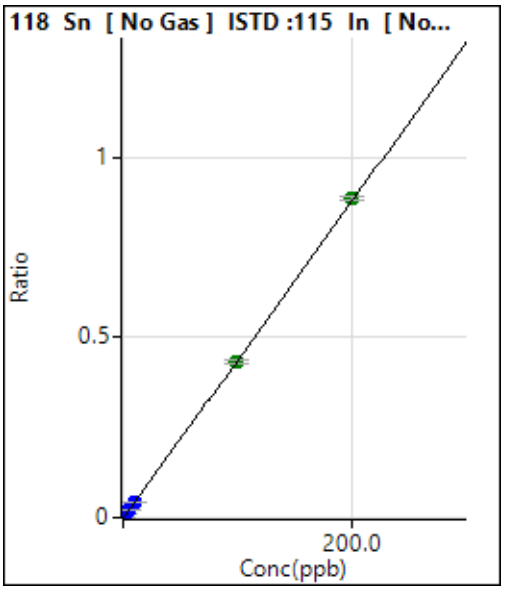
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	161.88	0.0000	P	17.1	
2	☐	2.000	1.958	14305.56	0.0027	P	3.2	-2.1
3	☐	5.000	4.876	35056.73	0.0067	P	2.6	-2.5
4	☐	10.000	9.727	69461.72	0.0133	P	1.0	-2.7
5	☐	100.000	97.128	665670.65	0.1322	P	2.1	-2.9
6	☐	200.000	201.453	1343775.42	0.2741	A	1.7	0.7

y = 0.0014 * x + 3.0559E-005
R = 0.9999
DL = 0.01152 ppb
BEC = 0.02246 ppb

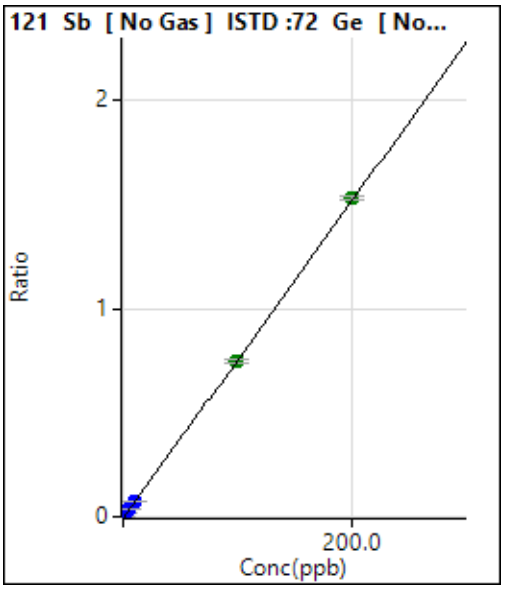
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8672.97	0.0016	P	4.3	
2	☐	2.000	1.777	50235.19	0.0095	P	1.9	-11.1
3	☐	5.000	4.844	120829.17	0.0230	P	2.4	-3.1
4	☐	10.000	9.771	233896.42	0.0447	P	1.8	-2.3
5	☐	100.000	97.909	2179718.82	0.4328	A	2.4	-2.1
6	☐	200.000	201.063	4348892.12	0.8870	A	1.5	0.5

y = 0.0044 * x + 0.0016
R = 0.9999
DL = 0.04822 ppb
BEC = 0.3715 ppb

Weight: <None>
Min Conc: <None>

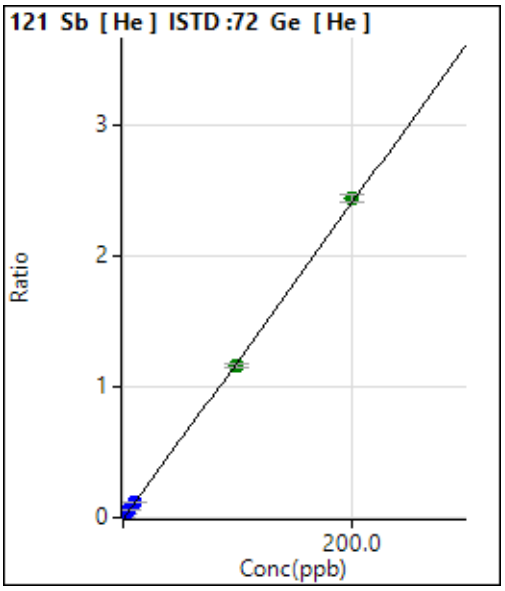


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1300.09	0.0003	P	6.4	
2	☐	2.000	1.927	63069.68	0.0150	P	2.9	-3.6
3	☐	5.000	4.830	153386.18	0.0371	P	1.8	-3.4
4	☐	10.000	9.841	309005.41	0.0753	P	2.5	-1.6
5	☐	100.000	97.922	2970035.48	0.7466	A	2.6	-2.1
6	☐	200.000	201.052	5937645.75	1.5326	A	0.9	0.5

y = 0.0076 * x + 3.1238E-004
R = 0.9999
DL = 0.007811 ppb
BEC = 0.04099 ppb

Weight: <None>
Min Conc: <None>

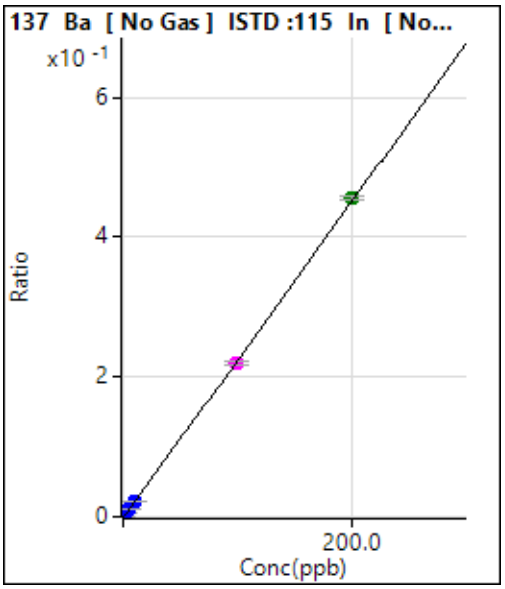
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	500.02	0.0004	P	15.2	
2	☐	2.000	1.854	27265.11	0.0228	P	2.9	-7.3
3	☐	5.000	4.709	67310.56	0.0573	P	1.9	-5.8
4	☐	10.000	9.697	136043.29	0.1176	P	2.3	-3.0
5	☐	100.000	95.928	1320040.99	1.1598	A	1.7	-4.1
6	☐	200.000	202.060	2708541.42	2.4424	A	2.6	1.0

y = 0.0121 * x + 4.2496E-004
R = 0.9997
DL = 0.016 ppb
BEC = 0.03516 ppb

Weight: <None>
Min Conc: <None>

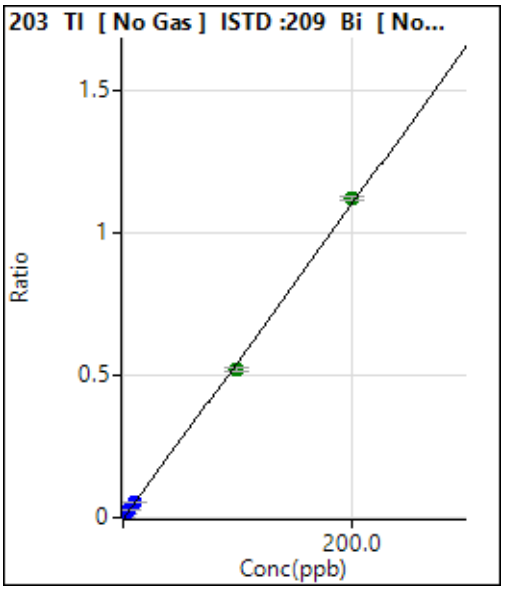


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.15	0.0003	P	10.7	
2	☐	2.000	1.879	24276.29	0.0046	P	2.6	-6.0
3	☐	5.000	4.818	59039.55	0.0112	P	4.2	-3.6
4	☐	10.000	9.605	115501.48	0.0221	P	0.7	-4.0
5	☐	100.000	97.269	1110159.10	0.2204	M	2.9	-2.7
6	☐	200.000	201.391	2235829.65	0.4560	A	1.4	0.7

y = 0.0023 * x + 3.2087E-004
R = 0.9999
DL = 0.04554 ppb
BEC = 0.1418 ppb

Weight: <None>
Min Conc: <None>

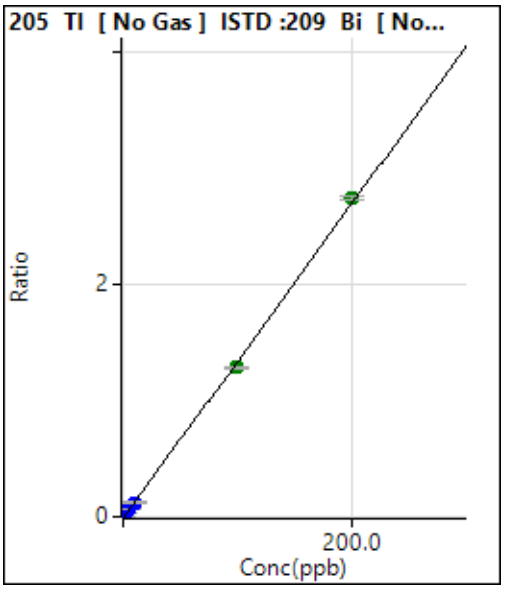
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.14	0.0003	P	7.8	
2	☐	2.000	1.878	55793.72	0.0107	P	2.8	-6.1
3	☐	5.000	4.593	135000.39	0.0257	P	2.0	-8.1
4	☐	10.000	9.304	270992.55	0.0517	P	2.8	-7.0
5	☐	100.000	94.454	2656535.90	0.5223	A	2.8	-5.5
6	☐	200.000	202.819	5571897.42	1.1211	A	0.9	1.4

y = 0.0055 * x + 3.1486E-004
R = 0.9995
DL = 0.01335 ppb
BEC = 0.05697 ppb

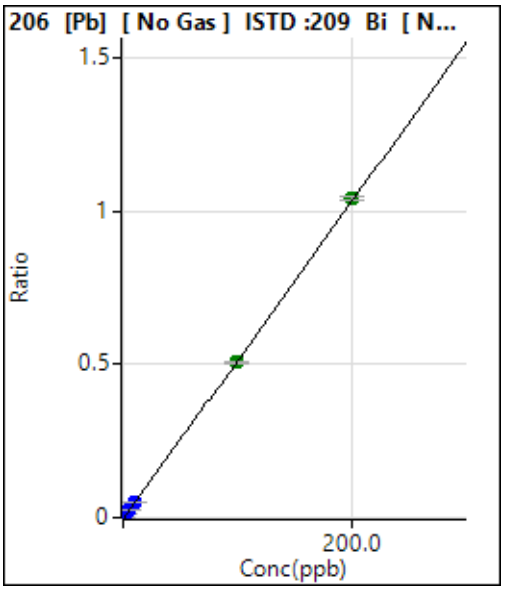
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4244.13	0.0008	P	4.2	
2	☐	2.000	1.804	131364.11	0.0252	P	1.7	-9.8
3	☐	5.000	4.409	317138.36	0.0604	P	2.2	-11.8
4	☐	10.000	9.034	643602.01	0.1229	P	2.6	-9.7
5	☐	100.000	94.683	6510474.90	1.2800	A	1.9	-5.3
6	☐	200.000	202.724	13615678.13	2.7396	A	1.2	1.4

y = 0.0135 * x + 8.0492E-004
R = 0.9995
DL = 0.007506 ppb
BEC = 0.05958 ppb

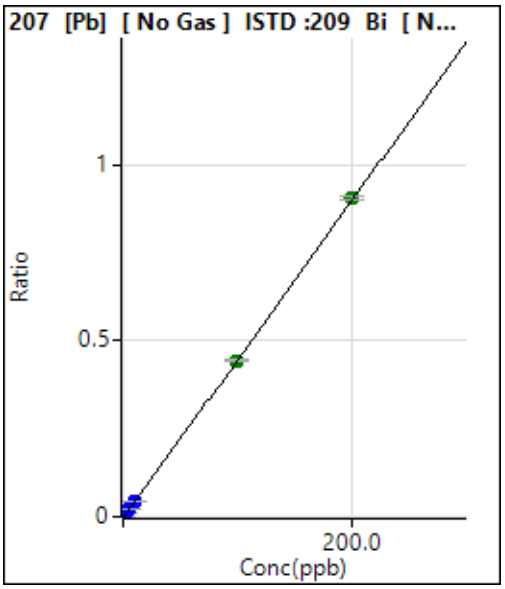
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2093.56	0.0004	P	1.4	
2	☐	2.000	1.997	56105.45	0.0108	P	3.6	-0.1
3	☐	5.000	4.917	136045.56	0.0259	P	1.4	-1.7
4	☐	10.000	9.875	270387.76	0.0516	P	1.2	-1.2
5	☐	100.000	97.799	2581850.59	0.5076	A	1.2	-2.2
6	☐	200.000	201.109	5185454.40	1.0434	A	1.1	0.6

y = 0.0052 * x + 3.9707E-004
R = 0.9999
DL = 0.003131 ppb
BEC = 0.07656 ppb

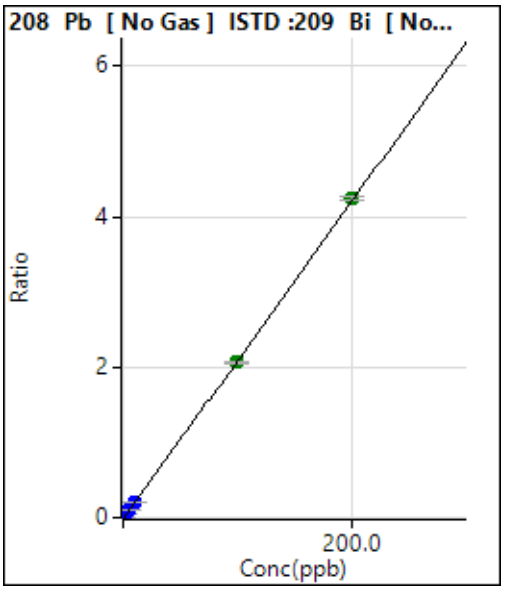
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1683.48	0.0003	P	17.7	
2	☐	2.000	1.953	47653.75	0.0091	P	2.7	-2.3
3	☐	5.000	4.892	117666.31	0.0224	P	1.5	-2.2
4	☐	10.000	9.855	234677.64	0.0448	P	1.0	-1.5
5	☐	100.000	98.236	2256621.22	0.4437	A	1.4	-1.8
6	☐	200.000	200.892	4507385.76	0.9070	A	0.7	0.4

y = 0.0045 * x + 3.1925E-004
R = 0.9999
DL = 0.03765 ppb
BEC = 0.07074 ppb

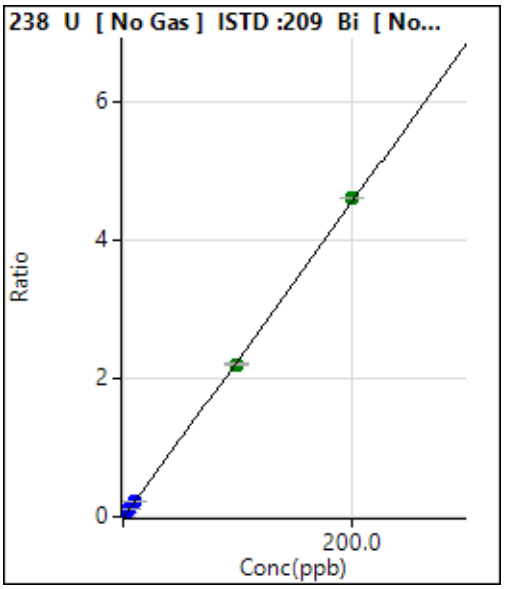
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8201.26	0.0016	P	3.9	
2	☐	2.000	1.928	220534.58	0.0423	P	2.9	-3.6
3	☐	5.000	4.791	539540.36	0.1027	P	1.4	-4.2
4	☐	10.000	9.714	1082670.58	0.2067	P	1.2	-2.9
5	☐	100.000	97.924	10524649.43	2.0692	A	1.2	-2.1
6	☐	200.000	201.058	21106062.91	4.2468	A	1.1	0.5

y = 0.0211 * x + 0.0016
R = 0.9999
DL = 0.008711 ppb
BEC = 0.07367 ppb

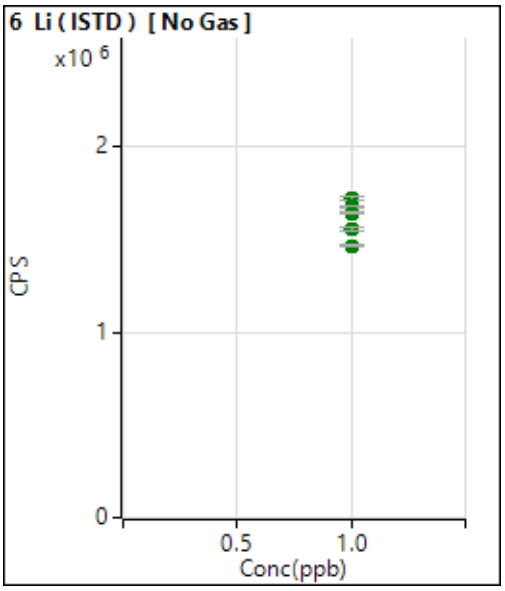
Weight: <None>
Min Conc: <None>



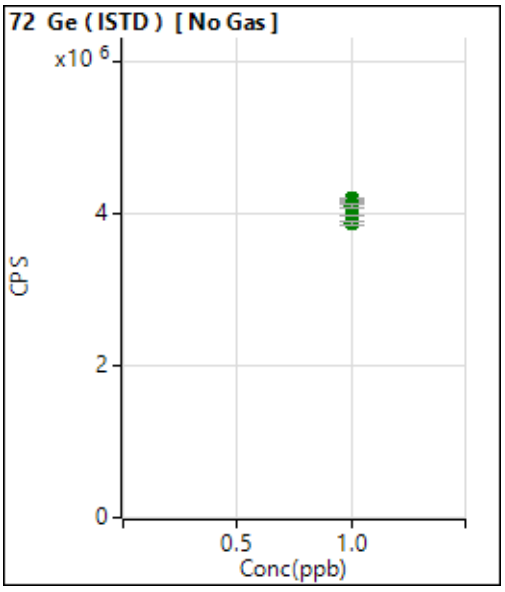
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5417.97	0.0010	P	3.9	
2	☐	2.000	1.829	223446.58	0.0428	P	0.8	-8.5
3	☐	5.000	4.528	548908.05	0.1045	P	1.6	-9.4
4	☐	10.000	9.306	1119428.45	0.2137	P	1.0	-6.9
5	☐	100.000	96.488	11219859.42	2.2059	A	1.4	-3.5
6	☐	200.000	201.804	22922825.49	4.6125	A	0.4	0.9

y = 0.0229 * x + 0.0010
R = 0.9998
DL = 0.005247 ppb
BEC = 0.04497 ppb

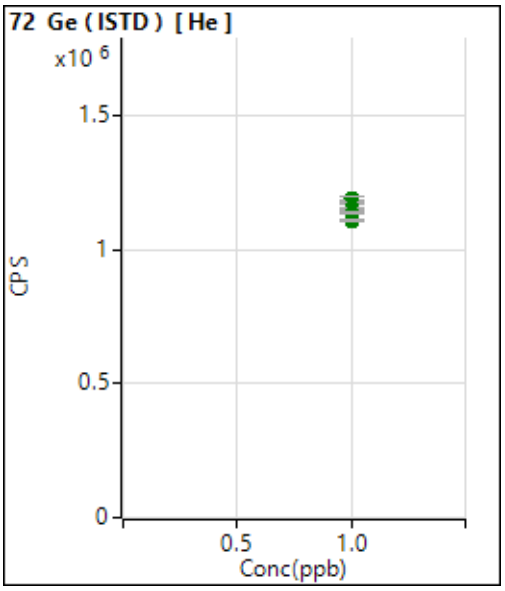
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Min Conc: <None>



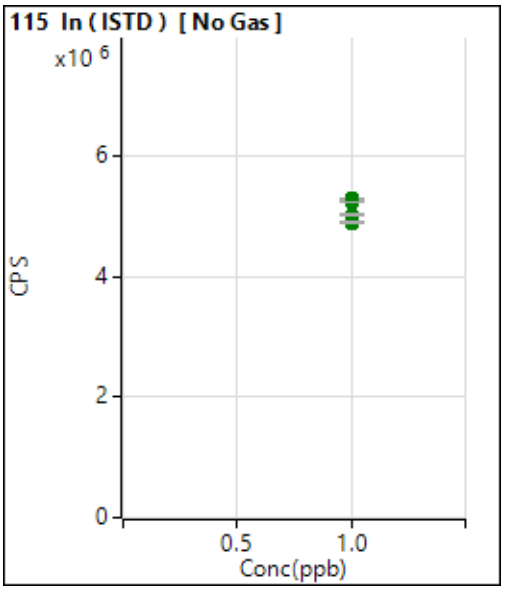
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1709896.43		A	0.1	
2	☐	1.000		1722227.11		A	0.8	
3	☐	1.000		1676112.40		A	0.7	
4	☐	1.000		1644380.63		A	0.5	
5	☐	1.000		1556073.15		A	1.2	
6	☐	1.000		1464767.87		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4162003.17		A	0.4	
2	☐	1.000		4204480.88		A	0.1	
3	☐	1.000		4131653.38		A	0.1	
4	☐	1.000		4103178.79		A	0.7	
5	☐	1.000		3977893.69		A	0.2	
6	☐	1.000		3874294.11		A	0.8	

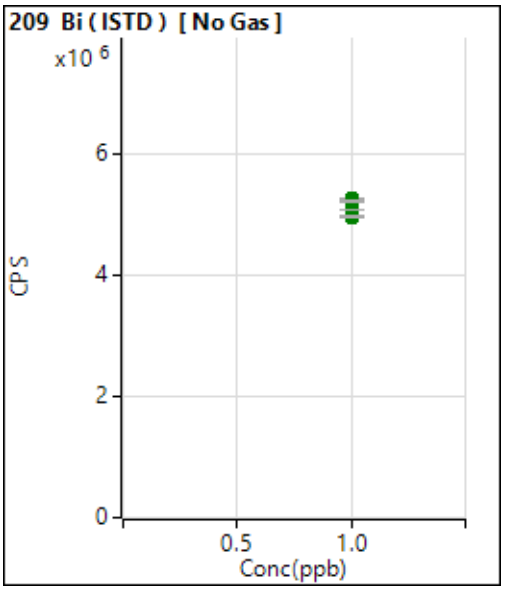


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177618.06		A	1.0	
2	☐	1.000		1193812.90		A	1.4	
3	☐	1.000		1174066.93		A	0.9	
4	☐	1.000		1156621.96		A	0.7	
5	☐	1.000		1138105.48		A	0.7	
6	☐	1.000		1109115.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5301074.33		A	0.7	
2	☐	1.000		5309002.67		A	0.4	
3	☐	1.000		5261197.90		A	0.4	
4	☐	1.000		5237070.79		A	0.0	
5	☐	1.000		5036649.90		A	0.1	
6	☐	1.000		4903058.98		A	0.8	

Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5272521.38		A	0.1	
2	☐	1.000		5216993.47		A	0.7	
3	☐	1.000		5253118.88		A	0.0	
4	☐	1.000		5239227.94		A	0.6	
5	☐	1.000		5086380.97		A	0.1	
6	☐	1.000		4969671.91		A	0.5	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:33:10-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	95109	0.00
Be	9	1	No Gas	370	1.59
V	51	2	He	5107	0.02
Cr	52	2	He	12653	0.03
Fe	56	2	He	43279	0.00
Se	78	2	He	159	5.29
As	75	2	He	357	1.83
Ca	44	2	He	1370	1.12
Na	23	2	He	288606	0.00
Mg	24	2	He	2800	0.09
K	39	2	He	119098	0.00
Mn	55	2	He	1773	0.26
Co	59	2	He	1033	1.13
Ni	60	2	He	1370	0.19
Cu	63	2	He	1290	1.34
Zn	66	2	He	1547	0.42
Al	27	2	He	2067	0.14
B	11	1	No Gas	19585	0.01
Al	27	1	No Gas	79772	0.00
Si	28	1	No Gas	438319	0.00
Ag	107	1	No Gas	1473	0.65
Cd	111	1	No Gas	162	10.16
Sr	88	1	No Gas	4904	0.16
Mo	95	1	No Gas	383	5.71
Sn	118	1	No Gas	8673	0.06
Sb	121	1	No Gas	1300	0.48
Ba	137	1	No Gas	1700	0.59
Tl	205	1	No Gas	4244	0.10
Tl	203	1	No Gas	1660	0.47
Pb	208	1	No Gas	8201	0.05
U	238	1	No Gas	5418	0.07
Ca	43	2	He	53	81.19
Sb	121	2	He	500	2.88
Ti	47	2	He	27	162.38
Cu	63	1	No Gas	7609	0.06

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1709896	0.13
Ge	72	2	He	1177618	0.96
Ge	72	1	No Gas	4162003	0.40
In	115	1	No Gas	5301074	0.66

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	5272521	0.12

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:35:53-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	13333	0.02
V	51	2	He	23910	0.00
Cr	52	2	He	31466	0.00
Fe	56	2	He	2218555	0.00
Se	78	2	He	525	1.23
As	75	2	He	3928	0.12
Ca	44	2	He	15048	0.01
Na	23	2	He	622282	0.00
Mg	24	2	He	218868	0.00
K	39	2	He	372136	0.00
Mn	55	2	He	19250	0.01
Co	59	2	He	37254	0.01
Ni	60	2	He	10908	0.06
Cu	63	2	He	26112	0.01
Zn	66	2	He	7239	0.01
Al	27	2	He	3137	0.27
B	11	1	No Gas	53786	0.00
Al	27	1	No Gas	123569	0.00
Si	28	1	No Gas	568752	0.00
Ag	107	1	No Gas	73196	0.00
Cd	111	1	No Gas	14306	0.02
Sr	88	1	No Gas	137527	0.00
Mo	95	1	No Gas	26266	0.02
Sn	118	1	No Gas	50235	0.00
Sb	121	1	No Gas	63070	0.00
Ba	137	1	No Gas	24276	0.01
Tl	205	1	No Gas	131364	0.00
Tl	203	1	No Gas	55794	0.01
Pb	208	1	No Gas	220535	0.00
U	238	1	No Gas	223447	0.00
Ca	43	2	He	957	0.78
Sb	121	2	He	27265	0.01
Cu	63	1	No Gas	60252	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1722227	0.78	1709896	100.72	70	120	
Ge	72	2	He	1193813	1.42	1177618	101.38	70	120	
Ge	72	1	No Gas	4204481	0.06	4162003	101.02	70	120	

Calibration Standard Report

In	115	1	No Gas	5309003	0.40	5301074	100.15	70	120	
Bi	209	1	No Gas	5216993	0.65	5272521	98.95	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:38:34-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	31983	0.01
V	51	2	He	54555	0.01
Cr	52	2	He	70171	0.00
Fe	56	2	He	5508641	0.00
Se	78	2	He	981	0.44
As	75	2	He	9565	0.05
Ca	44	2	He	33828	0.01
Na	23	2	He	1151604	0.00
Mg	24	2	He	539864	0.00
K	39	2	He	748984	0.00
Mn	55	2	He	47141	0.00
Co	59	2	He	91278	0.00
Ni	60	2	He	24392	0.01
Cu	63	2	He	63848	0.00
Zn	66	2	He	13300	0.02
Al	27	2	He	5845	0.01
B	11	1	No Gas	106566	0.00
Al	27	1	No Gas	232171	0.00
Si	28	1	No Gas	759669	0.00
Ag	107	1	No Gas	178888	0.00
Cd	111	1	No Gas	35057	0.01
Sr	88	1	No Gas	337079	0.00
Mo	95	1	No Gas	65532	0.00
Sn	118	1	No Gas	120829	0.00
Sb	121	1	No Gas	153386	0.00
Ba	137	1	No Gas	59040	0.01
Tl	205	1	No Gas	317138	0.00
Tl	203	1	No Gas	135000	0.00
Pb	208	1	No Gas	539540	0.00
U	238	1	No Gas	548908	0.00
Ca	43	2	He	1970	0.12
Sb	121	2	He	67311	0.00
Cu	63	1	No Gas	137859	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1676112	0.69	1709896	98.02	70	120	
Ge	72	2	He	1174067	0.85	1177618	99.70	70	120	
Ge	72	1	No Gas	4131653	0.14	4162003	99.27	70	120	

Calibration Standard Report

In	115	1	No Gas	5261198	0.45	5301074	99.25	70	120	
Bi	209	1	No Gas	5253119	0.02	5272521	99.63	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:41:15-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	63340	0.00
V	51	2	He	105328	0.00
Cr	52	2	He	129189	0.00
Fe	56	2	He	11078721	0.00
Se	78	2	He	1851	0.25
As	75	2	He	18745	0.01
Ca	44	2	He	67564	0.00
Na	23	2	He	2041607	0.00
Mg	24	2	He	1092520	0.00
K	39	2	He	1400575	0.00
Mn	55	2	He	92012	0.00
Co	59	2	He	184354	0.00
Ni	60	2	He	49315	0.01
Cu	63	2	He	126313	0.00
Zn	66	2	He	25053	0.01
Al	27	2	He	8816	0.06
B	11	1	No Gas	198327	0.00
Al	27	1	No Gas	358455	0.00
Si	28	1	No Gas	1090528	0.00
Ag	107	1	No Gas	356861	0.00
Cd	111	1	No Gas	69462	0.00
Sr	88	1	No Gas	674026	0.00
Mo	95	1	No Gas	129939	0.00
Sn	118	1	No Gas	233896	0.00
Sb	121	1	No Gas	309005	0.00
Ba	137	1	No Gas	115501	0.00
Tl	205	1	No Gas	643602	0.00
Tl	203	1	No Gas	270993	0.00
Pb	208	1	No Gas	1082671	0.00
U	238	1	No Gas	1119428	0.00
Ca	43	2	He	4187	0.12
Sb	121	2	He	136043	0.00
Cu	63	1	No Gas	267931	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1644381	0.55	1709896	96.17	70	120	
Ge	72	2	He	1156622	0.70	1177618	98.22	70	120	
Ge	72	1	No Gas	4103179	0.74	4162003	98.59	70	120	

Calibration Standard Report

In	115	1	No Gas	5237071	0.05	5301074	98.79	70	120	
Bi	209	1	No Gas	5239228	0.62	5272521	99.37	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:43:54-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	581352	0.00
V	51	2	He	908004	0.00
Cr	52	2	He	1037560	0.00
Fe	56	2	He	97268009	0.00
Se	78	2	He	15265	0.01
As	75	2	He	163974	0.00
Ca	44	2	He	588568	0.00
Na	23	2	He	15964244	0.00
Mg	24	2	He	9738579	0.00
K	39	2	He	11552115	0.00
Mn	55	2	He	794929	0.00
Co	59	2	He	1592098	0.00
Ni	60	2	He	412945	0.00
Cu	63	2	He	1094631	0.00
Zn	66	2	He	207911	0.00
Al	27	2	He	64789	0.00
B	11	1	No Gas	1666849	0.00
Al	27	1	No Gas	2575882	0.00
Si	28	1	No Gas	6451698	0.00
Ag	107	1	No Gas	3227566	0.00
Cd	111	1	No Gas	644108	0.00
Sr	88	1	No Gas	6284169	0.00
Mo	95	1	No Gas	1199264	0.00
Sn	118	1	No Gas	2077682	0.00
Sb	121	1	No Gas	2843598	0.00
Ba	137	1	No Gas	1061875	0.00
Tl	205	1	No Gas	6160861	0.00
Tl	203	1	No Gas	2514077	0.00
Pb	208	1	No Gas	10140020	0.00
U	238	1	No Gas	10774259	0.00
Ca	43	2	He	34901	0.01
Sb	121	2	He	1214677	0.00
Cu	63	1	No Gas	2338535	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1554162	0.75	1709896	90.89	70	120	
Ge	72	2	He	1137003	0.71	1177618	96.55	70	120	
Ge	72	1	No Gas	3991943	0.75	4162003	95.91	70	120	

Calibration Standard Report

In	115	1	No Gas	5033692	0.53	5301074	94.96	70	120	
Bi	209	1	No Gas	5121556	0.51	5272521	97.14	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:46:33-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1228024	0.00
V	51	2	He	2015090	0.00
Cr	52	2	He	2284257	0.00
Fe	56	2	He	216728677	0.00
Se	78	2	He	33953	0.01
As	75	2	He	363060	0.00
Ca	44	2	He	1324475	0.00
Na	23	2	He	35044964	0.00
Mg	24	2	He	21464943	0.00
K	39	2	He	25347164	0.00
Mn	55	2	He	1784314	0.00
Co	59	2	He	3527645	0.00
Ni	60	2	He	904124	0.00
Cu	63	2	He	2413664	0.00
Zn	66	2	He	453103	0.00
Al	27	2	He	140455	0.00
B	11	1	No Gas	3510760	0.00
Al	27	1	No Gas	5281948	0.00
Si	28	1	No Gas	12953964	0.00
Ag	107	1	No Gas	6738256	0.00
Cd	111	1	No Gas	1343775	0.00
Sr	88	1	No Gas	13219902	0.00
Mo	95	1	No Gas	2555597	0.00
Sn	118	1	No Gas	4348892	0.00
Sb	121	1	No Gas	5937646	0.00
Ba	137	1	No Gas	2235830	0.00
Tl	205	1	No Gas	13615678	0.00
Tl	203	1	No Gas	5571897	0.00
Pb	208	1	No Gas	21106063	0.00
U	238	1	No Gas	22922825	0.00
Ca	43	2	He	76872	0.00
Sb	121	2	He	2708541	0.00
Cu	63	1	No Gas	4848459	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1464768	0.54	1709896	85.66	70	120	
Ge	72	2	He	1109115	0.93	1177618	94.18	70	120	
Ge	72	1	No Gas	3874294	0.76	4162003	93.09	70	120	

Calibration Standard Report

In	115	1	No Gas	4903059	0.84	5301074	92.49	70	120	
Bi	209	1	No Gas	4969672	0.50	5272521	94.26	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:54:32-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	612588	0.00
V	51	2	He	984012	0.00
Cr	52	2	He	1126568	0.00
Fe	56	2	He	106286848	0.00
Se	78	2	He	16651	0.01
As	75	2	He	179058	0.00
Ca	44	2	He	643072	0.00
Na	23	2	He	17407033	0.00
Mg	24	2	He	10626664	0.00
K	39	2	He	12591436	0.00
Mn	55	2	He	867052	0.00
Co	59	2	He	1739956	0.00
Ni	60	2	He	449401	0.00
Cu	63	2	He	1193031	0.00
Zn	66	2	He	224988	0.00
Al	27	2	He	70232	0.00
B	11	1	No Gas	1751959	0.00
Al	27	1	No Gas	2713648	0.00
Si	28	1	No Gas	6734428	0.00
Ag	107	1	No Gas	3362962	0.00
Cd	111	1	No Gas	665671	0.00
Sr	88	1	No Gas	6609469	0.00
Mo	95	1	No Gas	1260475	0.00
Sn	118	1	No Gas	2179719	0.00
Sb	121	1	No Gas	2970035	0.00
Ba	137	1	No Gas	1110159	0.00
Tl	205	1	No Gas	6510475	0.00
Tl	203	1	No Gas	2656536	0.00
Pb	208	1	No Gas	10524649	0.00
U	238	1	No Gas	11219859	0.00
Ca	43	2	He	37855	0.01
Sb	121	2	He	1320041	0.00
Cu	63	1	No Gas	2461636	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1556073	1.17	1709896	91.00	70	120	
Ge	72	2	He	1138105	0.66	1177618	96.64	70	120	
Ge	72	1	No Gas	3977894	0.15	4162003	95.58	70	120	

Calibration Standard Report

In	115	1	No Gas	5036650	0.07	5301074	95.01	70	120	
Bi	209	1	No Gas	5086381	0.08	5272521	96.47	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	019_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:01:54-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	95.871	1.776	2477598	2.06	100	95.9	90	110	
Be	9	1	No Gas	95.306	1.015	613254	1.35	100	95.3	90	110	
V	51	2	He	98.092	0.893	1017721	1.43	100	98.1	90	110	
Cr	52	2	He	98.598	1.093	1164623	1.58	100	98.6	90	110	
Fe	56	2	He	9861.289	1.490	109936638	2.03	10000	98.6	90	110	
Se	78	2	He	97.877	1.349	17155	1.85	100	97.9	90	110	
As	75	2	He	98.763	0.994	184752	1.52	100	98.8	90	110	
Ca	44	2	He	9802.618	0.378	666948	0.92	10000	98.0	90	110	
Na	23	2	He	9777.302	0.907	17781675	1.44	10000	97.8	90	110	
Mg	24	2	He	9883.176	1.216	10931537	1.76	10000	98.8	90	110	
K	39	2	He	9921.599	0.961	13012715	1.50	10000	99.2	90	110	
Mn	55	2	He	97.656	0.796	895301	1.34	100	97.7	90	110	
Co	59	2	He	98.666	1.494	1792522	2.03	100	98.7	90	110	
Ni	60	2	He	99.460	0.823	464241	1.36	100	99.5	90	110	
Cu	63	2	He	99.362	0.996	1235786	1.53	100	99.4	90	110	
Zn	66	2	He	99.966	0.642	234115	1.15	100	100.0	90	110	
Al	27	2	He	101.737	2.568	74554	2.95	100	101.7	90	110	
B	11	1	No Gas	469.956	0.909	1736412	1.24	500	94.0	90	110	
Al	27	1	No Gas	99.504	2.059	2749289	1.19	100	99.5	90	110	
Si	28	1	No Gas	492.953	2.482	6792772	1.49	500	98.6	90	110	
Ag	107	1	No Gas	99.433	1.708	3431750	1.50	100	99.4	90	110	
Cd	111	1	No Gas	97.871	1.440	672557	1.14	100	97.9	90	110	
Sr	88	1	No Gas	97.963	1.530	6635403	1.24	100	98.0	90	110	
Mo	95	1	No Gas	96.685	1.412	1262472	1.16	100	96.7	90	110	
Sn	118	1	No Gas	98.713	1.895	2203408	1.52	100	98.7	90	110	
Sb	121	1	No Gas	98.604	2.907	3012111	2.12	100	98.6	90	110	
Ba	137	1	No Gas	97.648	2.889	1117428	2.50	100	97.6	90	110	
Tl	205	1	No Gas	97.837	2.122	6681790	2.71	100	97.8	90	110	
Tl	203	1	No Gas	97.160	2.663	2714235	3.28	100	97.2	90	110	
Pb	208	1	No Gas	98.592	1.218	10524480	1.83	100	98.6	90	110	
U	238	1	No Gas	95.856	1.548	11070984	2.15	100	95.9	90	110	
Ca	43	2	He	9910.856	1.235	39239	1.52	10000	99.1	90	110	
Sb	121	2	He	98.221	0.539	1366677	1.08	100	98.2	90	110	
Ti	47	2	He	100.656	2.412	39891	2.74	100	100.7	90	110	
Cu	63	1	No Gas	99.190	2.506	2484232	1.66	100	99.2	90	110	
Se	82	1	No Gas	97.658	1.291	41628	0.52	100	97.7	90	110	
Zr	90	1	No Gas	88.101	1.460	3718324	1.12	100	88.1	90	110	ICV Main CR1 Failed
Zr	90	2	He	88.507	1.126	1519598	1.67	100	88.5	90	1100	ICV Main CR1 Failed

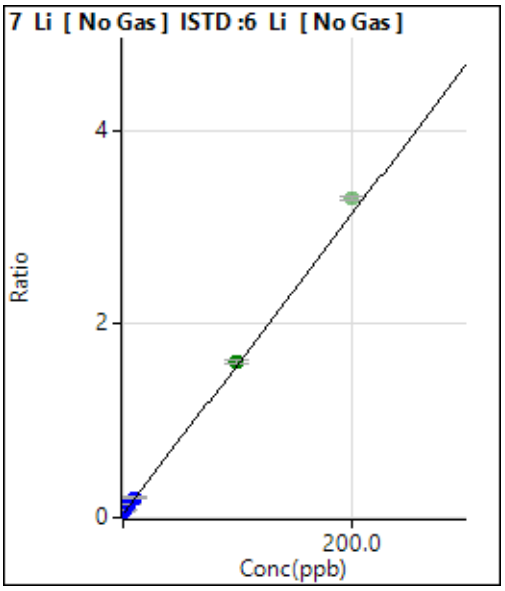
QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1553694	0.38	1709896	90.86	70	120	
Ge	72	2	He	1150873	0.55	1177618	97.73	70	120	
Ge	72	1	No Gas	4006990	0.84	4162003	96.28	70	120	
In	115	1	No Gas	5050272	0.39	5301074	95.27	70	120	
Bi	209	1	No Gas	5051591	0.62	5272521	95.81	70	120	

Calibration for 019_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

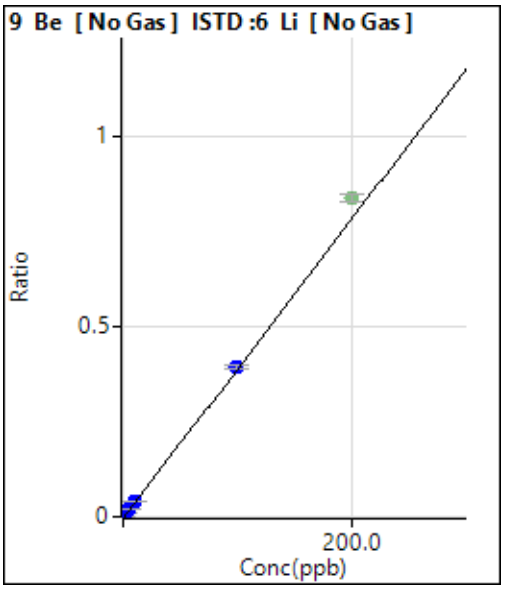
Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/25/2024 10:33:10 AM
2	011CALS.d	2/10/200	6/25/2024 10:35:53 AM
3	012CALS.d	5/25/500	6/25/2024 10:38:34 AM
4	013CALS.d	10/50/100	6/25/2024 10:41:15 AM
5	017CALS.d	100/500/10K	6/25/2024 10:54:32 AM
6	015CALS.d	200/1000/20K	6/25/2024 10:46:33 AM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95109.43	0.0556	P	0.2	
2	☐	2.000	1.920	146884.63	0.0853	P	1.6	-4.0
3	☐	5.000	4.841	218591.44	0.1304	P	1.3	-3.2
4	☐	10.000	9.815	340796.34	0.2073	P	1.2	-1.9
5	☐	100.000	100.028	2490753.19	1.6010	A	2.6	0.0
6	☑	200.000		4828676.80	3.2967	A	1.3	

y = 0.0154 * x + 0.0556
R = 1.0000
DL = 0.02597 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

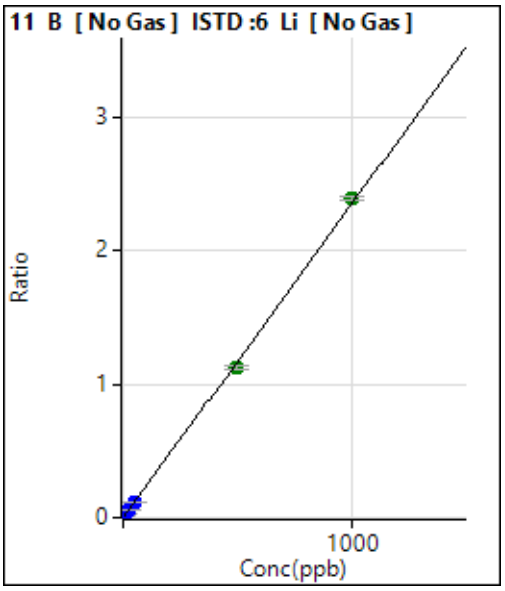


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0002	P	5.8	
2	☐	2.000	1.913	13332.98	0.0077	P	2.5	-4.3
3	☐	5.000	4.795	31982.57	0.0191	P	2.3	-4.1
4	☐	10.000	9.736	63339.98	0.0385	P	1.5	-2.6
5	☐	100.000	100.038	612588.03	0.3938	P	2.9	0.0
6	☑	200.000		1228024.38	0.8384	A	2.0	

y = 0.0039 * x + 2.1639E-004
R = 1.0000
DL = 0.009619 ppb
BEC = 0.055 ppb

Weight: <None>
Min Conc: <None>

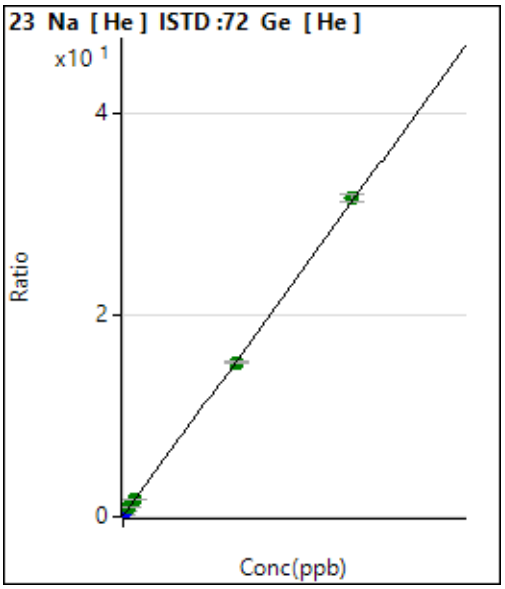
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19585.24	0.0115	P	1.0	
2	☐	10.000	8.404	53786.34	0.0312	P	2.6	-16.0
3	☐	25.000	22.147	106565.72	0.0636	P	0.9	-11.4
4	☐	50.000	46.381	198326.89	0.1206	P	2.3	-7.2
5	☐	500.000	473.544	1751959.19	1.1260	A	1.6	-5.3
6	☐	1000.000	1013.496	3510760.36	2.3969	A	1.3	1.3

y = 0.0024 * x + 0.0115
R = 0.9995
DL = 0.1393 ppb
BEC = 4.866 ppb

Weight: <None>
Min Conc: <None>

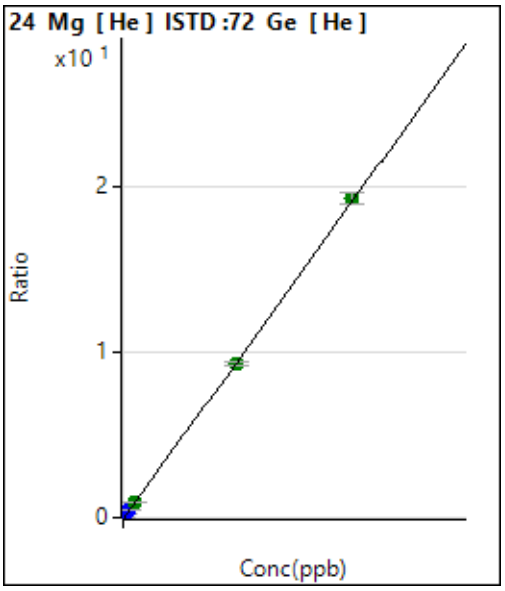


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	288606.42	0.2451	P	1.4	
2	☐	200.000	177.589	622281.82	0.5213	P	1.0	-11.2
3	☐	500.000	473.179	1151604.43	0.9810	A	1.8	-5.4
4	☐	1000.000	977.456	2041607.21	1.7652	A	1.2	-2.3
5	☐	10000.00	9676.744	17407033.07	15.2937	A	1.6	-3.2
6	☐	20000.00	20163.65	3504496448	31.6022	A	2.8	0.8

y = 0.0016 * x + 0.2451
R = 0.9998
DL = 6.411 ppb
BEC = 157.6 ppb

Weight: <None>
Min Conc: <None>

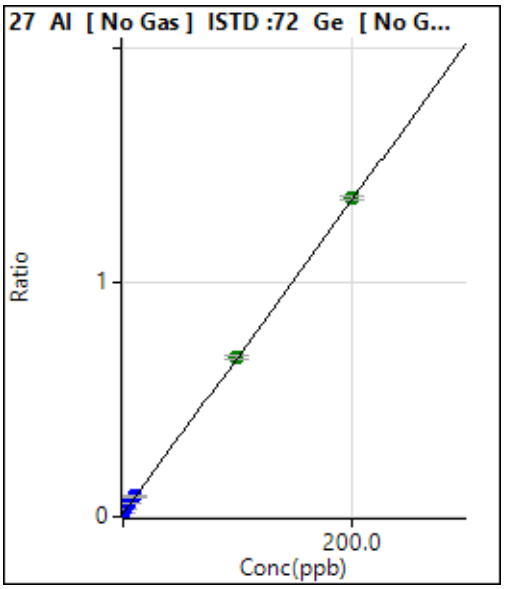
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2800.34	0.0024	P	2.9	
2	☐	200.000	188.332	218868.20	0.1833	P	2.1	-5.8
3	☐	500.000	476.135	539864.42	0.4598	P	1.8	-4.8
4	☐	1000.000	980.631	1092519.88	0.9446	A	1.5	-1.9
5	☐	10000.00	9714.978	10626664.43	9.3364	A	1.8	-2.9
6	☐	20000.00	20144.19	21464943.01	19.3567	A	3.2	0.7

y = 9.6079E-004 * x + 0.0024
R = 0.9999
DL = 0.2145 ppb
BEC = 2.475 ppb

Weight: <None>
Min Conc: <None>

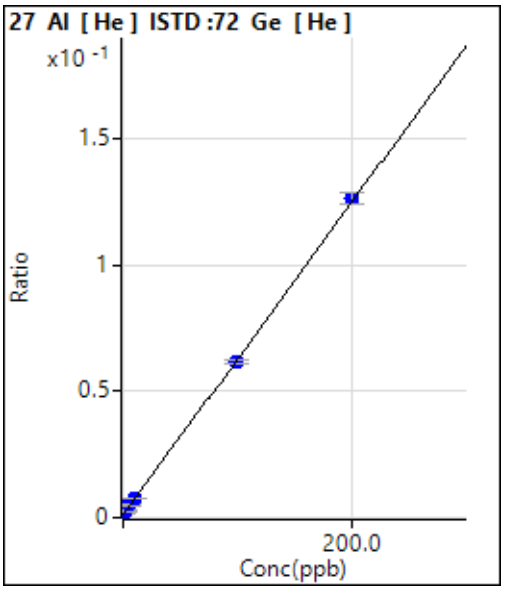


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79772.13	0.0192	P	2.2	
2	☐	2.000	1.525	123569.26	0.0294	P	2.4	-23.8
3	☐	5.000	5.524	232171.49	0.0562	P	7.8	10.5
4	☐	10.000	10.174	358454.78	0.0874	P	2.6	1.7
5	☐	100.000	98.905	2713647.56	0.6822	A	1.7	-1.1
6	☐	200.000	200.531	5281947.84	1.3634	A	1.7	0.3

y = 0.0067 * x + 0.0192
R = 1.0000
DL = 0.1901 ppb
BEC = 2.859 ppb

Weight: <None>
Min Conc: <None>

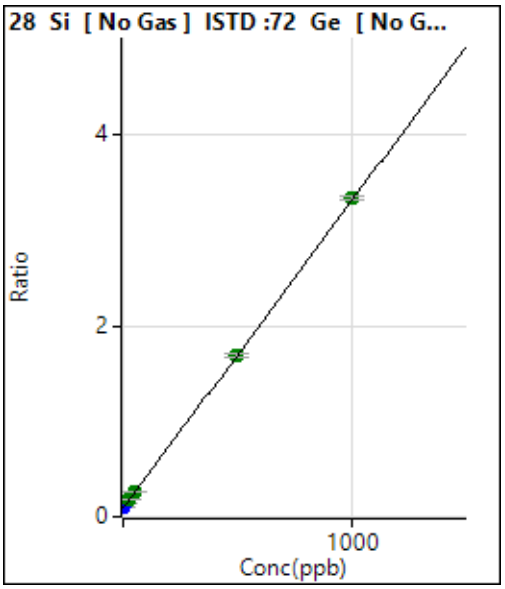
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2066.86	0.0018	P	3.4	
2	☐	2.000	1.406	3137.07	0.0026	P	7.0	-29.7
3	☐	5.000	5.203	5844.66	0.0050	P	1.6	4.1
4	☐	10.000	9.473	8816.28	0.0076	P	5.9	-5.3
5	☐	100.000	96.780	70231.85	0.0617	P	3.0	-3.2
6	☐	200.000	201.637	140454.75	0.1267	P	3.5	0.8

y = 6.1944E-004 * x + 0.0018
R = 0.9998
DL = 0.2864 ppb
BEC = 2.834 ppb

Weight: <None>
Min Conc: <None>

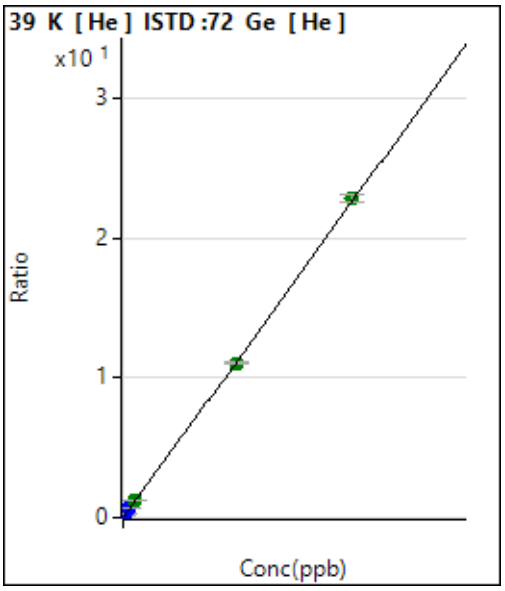


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	438318.65	0.1053	P	0.4	
2	☐	10.000	9.287	568752.14	0.1353	P	0.2	-7.1
3	☐	25.000	24.351	759668.97	0.1839	A	0.1	-2.6
4	☐	50.000	49.749	1090527.61	0.2658	A	1.3	-0.5
5	☐	500.000	492.180	6734428.23	1.6930	A	1.8	-1.6
6	☐	1000.000	1003.946	12953963.98	3.3438	A	1.5	0.4

y = 0.0032 * x + 0.1053
R = 1.0000
DL = 0.4316 ppb
BEC = 32.65 ppb

Weight: <None>
Min Conc: <None>

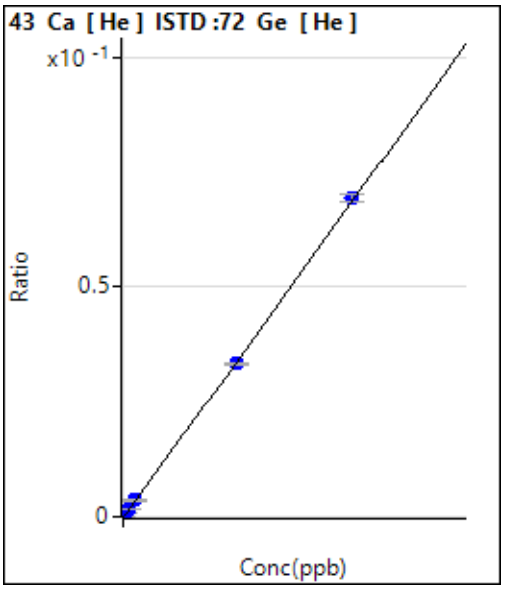
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	119097.76	0.1011	P	0.3	
2	☐	200.000	186.455	372135.50	0.3117	P	0.3	-6.8
3	☐	500.000	475.349	748983.87	0.6380	P	1.9	-4.9
4	☐	1000.000	982.636	1400574.72	1.2109	A	1.3	-1.7
5	☐	10000.00	9705.924	12591435.65	11.0629	A	1.7	-2.9
6	☐	20000.00	20148.65	25347163.79	22.8567	A	2.3	0.7

y = 0.0011 * x + 0.1011
R = 0.9999
DL = 0.6747 ppb
BEC = 89.55 ppb

Weight: <None>
Min Conc: <None>

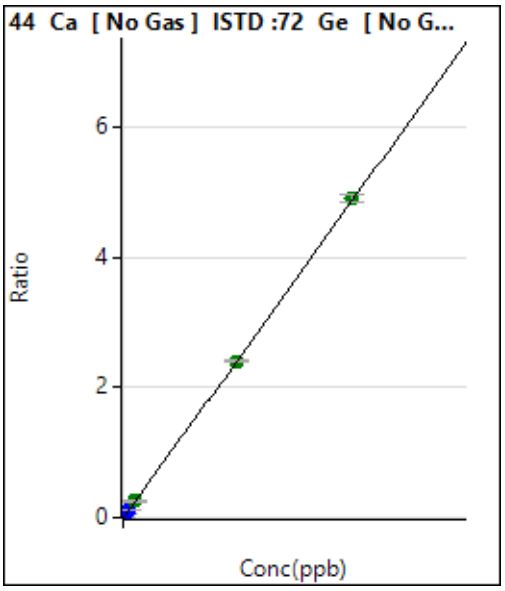


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	44.0	
2	☐	200.000	220.012	956.72	0.0008	P	6.9	10.0
3	☐	500.000	475.202	1970.17	0.0017	P	1.5	-5.0
4	☐	1000.000	1040.743	4187.37	0.0036	P	5.6	4.1
5	☐	10000.00	9668.254	37855.14	0.0333	P	1.7	-3.3
6	☐	20000.00	20164.25	76871.75	0.0693	P	2.5	0.8

y = 3.4355E-006 * x + 4.5378E-005
R = 0.9998
DL = 17.45 ppb
BEC = 13.21 ppb

Weight: <None>
Min Conc: <None>

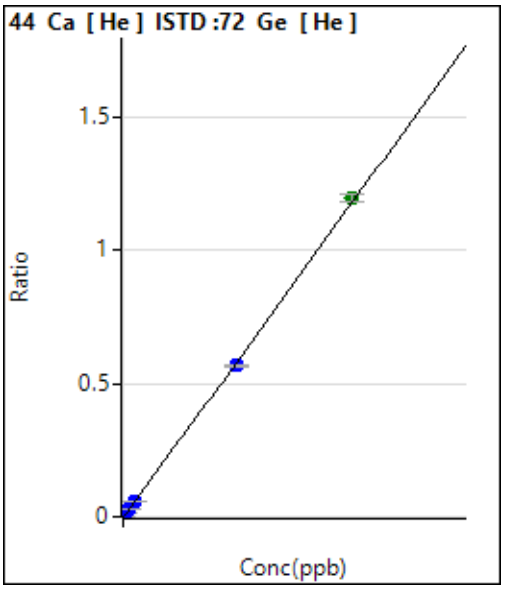
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54075.33	0.0130	P	1.7	
2	☐	200.000	198.146	257829.67	0.0613	P	1.6	-0.9
3	☐	500.000	486.430	543875.83	0.1316	P	2.3	-2.7
4	☐	1000.000	981.332	1035362.72	0.2524	A	1.5	-1.9
5	☐	10000.00	9825.374	9584837.57	2.4095	A	2.1	-1.7
6	☐	20000.00	20088.60	19032093.05	4.9128	A	2.3	0.4

y = 2.4391E-004 * x + 0.0130
R = 0.9999
DL = 2.69 ppb
BEC = 53.27 ppb

Weight: <None>
Min Conc: <None>

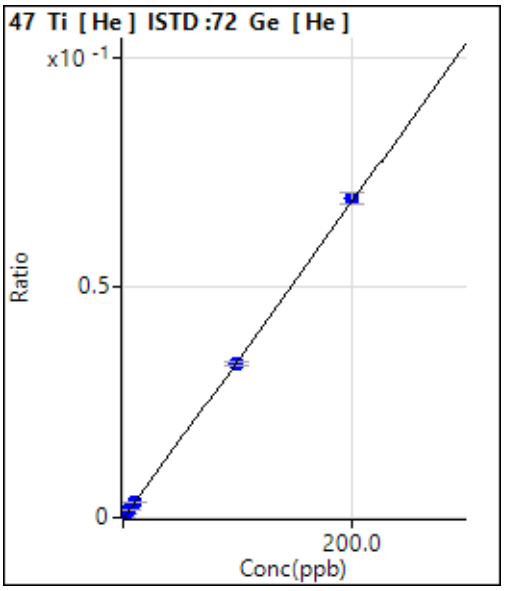


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	15.2	
2	☐	200.000	193.959	15048.30	0.0126	P	2.3	-3.0
3	☐	500.000	468.624	33828.14	0.0288	P	1.5	-6.3
4	☐	1000.000	970.349	67563.50	0.0584	P	2.2	-3.0
5	☐	10000.00	9557.200	643072.29	0.5650	P	1.4	-4.4
6	☐	20000.00	20223.72	1324475.06	1.1943	A	2.6	1.1

y = 5.8999E-005 * x + 0.0012
R = 0.9997
DL = 9 ppb
BEC = 19.72 ppb

Weight: <None>
Min Conc: <None>

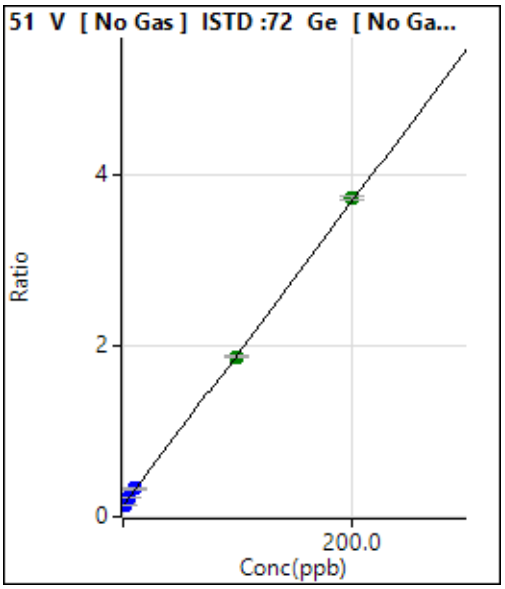
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	44.0	
2	☐	2.000	1.824	776.70	0.0007	P	5.7	-8.8
3	☐	5.000	4.469	1833.49	0.0016	P	12.4	-10.6
4	☐	10.000	9.439	3783.92	0.0033	P	4.4	-5.6
5	☐	100.000	97.296	38132.74	0.0335	P	2.0	-2.7
6	☐	200.000	201.395	76872.09	0.0693	P	3.7	0.7

y = 3.4411E-004 * x + 2.2689E-005
R = 0.9999
DL = 0.08712 ppb
BEC = 0.06593 ppb

Weight: <None>
Min Conc: <None>

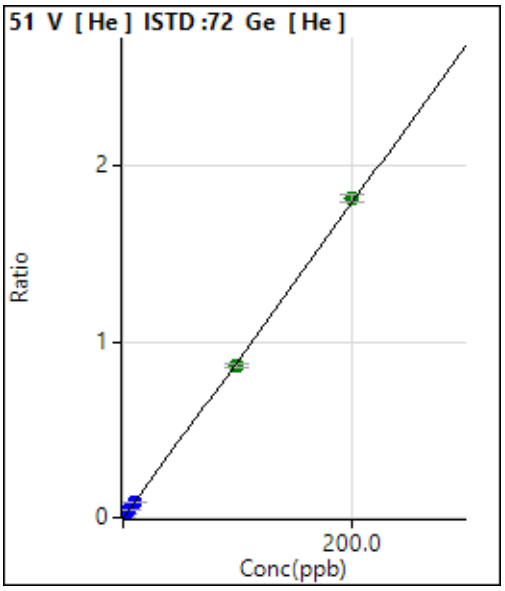


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	623488.18	0.1498	P	1.4	
2	☐	2.000	-0.404	599723.22	0.1426	P	1.6	-120.2
3	☐	5.000	4.124	921434.11	0.2230	P	1.8	-17.5
4	☐	10.000	9.910	1336488.84	0.3257	P	1.1	-0.9
5	☐	100.000	96.962	7443170.55	1.8711	A	1.6	-3.0
6	☐	200.000	201.570	14443088.49	3.7282	A	1.8	0.8

y = 0.0178 * x + 0.1498
R = 0.9998
DL = 0.3599 ppb
BEC = 8.439 ppb

Weight: <None>
Min Conc: <None>

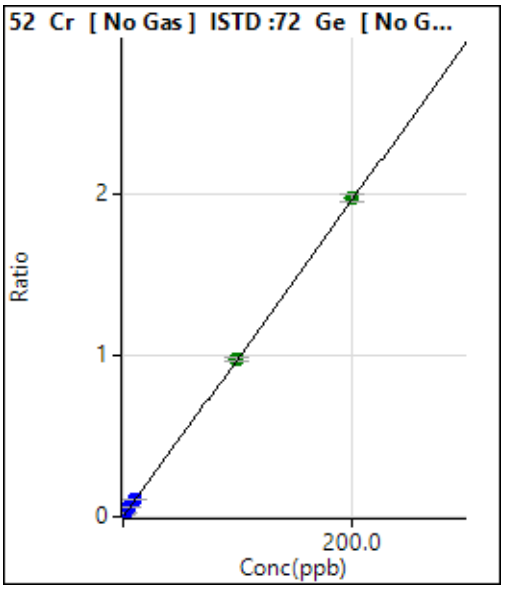
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5106.53	0.0043	P	1.3	
2	☐	2.000	1.750	23909.53	0.0200	P	1.6	-12.5
3	☐	5.000	4.697	54554.53	0.0465	P	2.7	-6.1
4	☐	10.000	9.668	105327.92	0.0911	P	2.7	-3.3
5	☐	100.000	95.893	984011.87	0.8645	A	1.7	-4.1
6	☐	200.000	202.080	2015089.64	1.8171	A	3.0	1.0

y = 0.0090 * x + 0.0043
R = 0.9997
DL = 0.01826 ppb
BEC = 0.4834 ppb

Weight: <None>
Min Conc: <None>

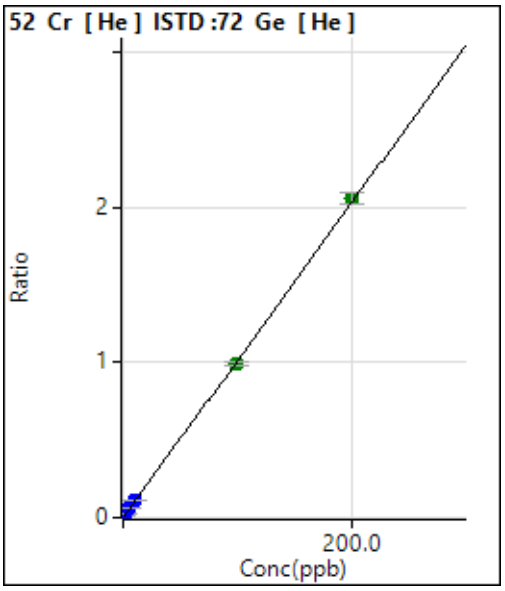


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37434.31	0.0090	P	2.1	
2	☐	2.000	1.766	110679.48	0.0263	P	1.8	-11.7
3	☐	5.000	4.828	232859.77	0.0564	P	1.3	-3.4
4	☐	10.000	9.872	434256.59	0.1058	P	1.5	-1.3
5	☐	100.000	98.544	3881322.96	0.9757	A	1.8	-1.5
6	☐	200.000	200.741	7663884.26	1.9783	A	1.9	0.4

y = 0.0098 * x + 0.0090
R = 1.0000
DL = 0.05682 ppb
BEC = 0.9169 ppb

Weight: <None>
Min Conc: <None>

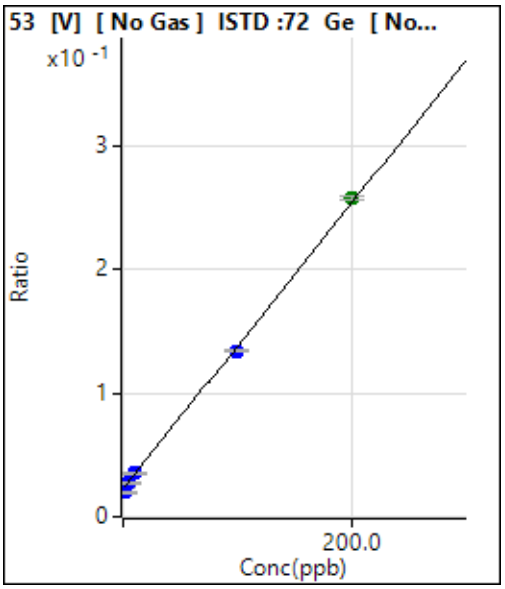
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12652.62	0.0107	P	4.0	
2	☐	2.000	1.538	31466.12	0.0264	P	1.3	-23.1
3	☐	5.000	4.828	70170.90	0.0598	P	2.5	-3.4
4	☐	10.000	9.941	129188.69	0.1117	P	2.7	-0.6
5	☐	100.000	96.416	1126568.11	0.9898	A	2.4	-3.6
6	☐	200.000	201.804	2284256.84	2.0599	A	3.2	0.9

y = 0.0102 * x + 0.0107
R = 0.9998
DL = 0.1276 ppb
BEC = 1.058 ppb

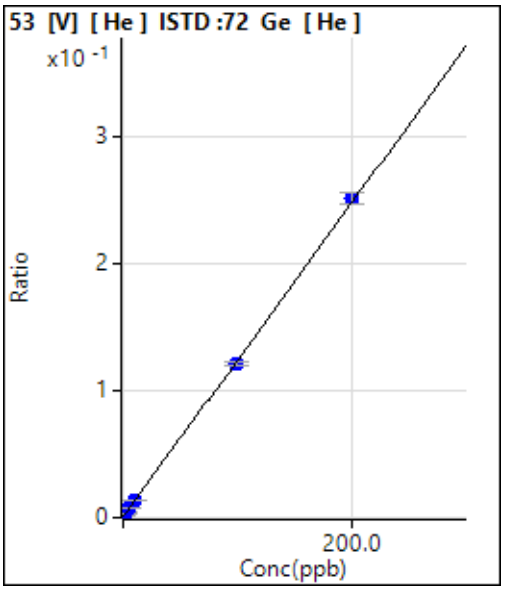
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101036.73	0.0243	P	1.8	
2	☐	2.000	-4.140	81968.87	0.0195	P	2.1	-307.0
3	☐	5.000	2.731	113331.30	0.0274	P	2.6	-45.4
4	☐	10.000	9.394	144120.20	0.0351	P	0.9	-6.1
5	☐	100.000	95.281	534242.26	0.1343	P	1.3	-4.7
6	☐	200.000	202.508	999993.19	0.2581	A	1.4	1.3

y = 0.0012 * x + 0.0243
R = 0.9994
DL = 1.125 ppb
BEC = 21.02 ppb

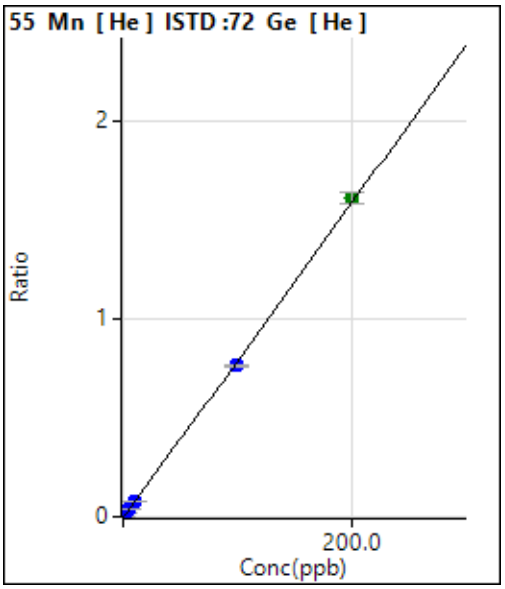
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2336.92	0.0020	P	0.1	
2	☐	2.000	1.449	4500.82	0.0038	P	3.2	-27.5
3	☐	5.000	4.493	8833.00	0.0075	P	6.0	-10.1
4	☐	10.000	9.573	15946.03	0.0138	P	1.4	-4.3
5	☐	100.000	96.223	137279.10	0.1206	P	2.1	-3.8
6	☐	200.000	201.928	278261.94	0.2509	P	3.1	1.0

y = 0.0012 * x + 0.0020
R = 0.9998
DL = 0.003174 ppb
BEC = 1.61 ppb

Weight: <None>
Min Conc: <None>

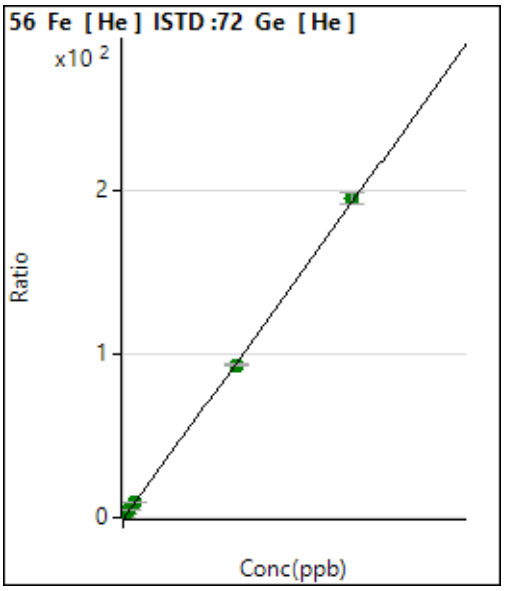


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1773.48	0.0015	P	5.5	
2	☐	2.000	1.839	19250.32	0.0161	P	2.2	-8.0
3	☐	5.000	4.861	47140.58	0.0402	P	1.7	-2.8
4	☐	10.000	9.816	92011.73	0.0795	P	2.8	-1.8
5	☐	100.000	95.630	867052.17	0.7618	P	1.4	-4.4
6	☐	200.000	202.199	1784314.40	1.6091	A	3.4	1.1

y = 0.0080 * x + 0.0015
R = 0.9997
DL = 0.03105 ppb
BEC = 0.1895 ppb

Weight: <None>
Min Conc: <None>

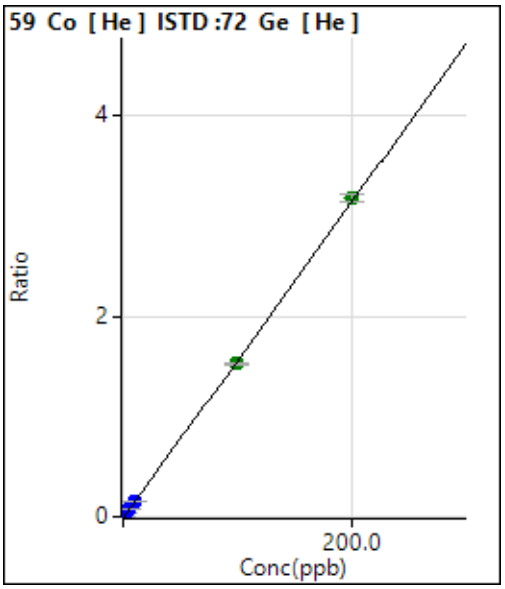
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43278.54	0.0367	P	0.9	
2	☐	200.000	188.123	2218554.55	1.8583	A	1.2	-5.9
3	☐	500.000	480.763	5508640.75	4.6918	A	2.3	-3.8
4	☐	1000.000	985.434	11078721.09	9.5783	A	2.2	-1.5
5	☐	10000.00	9640.722	106286848.4	93.3839	A	1.3	-3.6
6	☐	20000.00	20180.96	216728676.7	195.440	A	3.2	0.9

y = 0.0097 * x + 0.0367
R = 0.9998
DL = 0.1028 ppb
BEC = 3.795 ppb

Weight: <None>
Min Conc: <None>

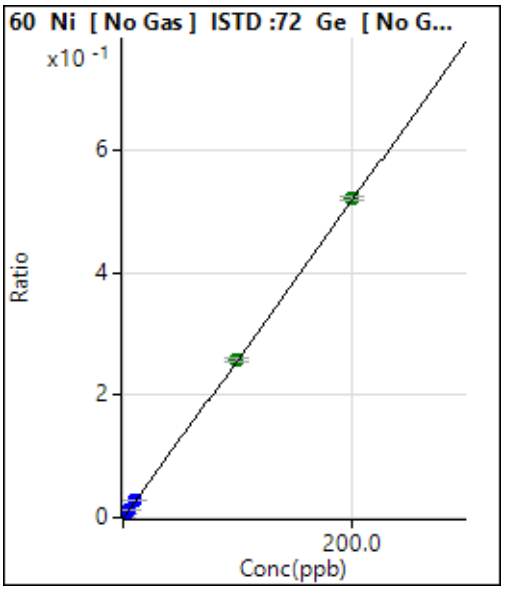


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1033.39	0.0009	P	12.3	
2	☐	2.000	1.923	37253.94	0.0312	P	4.1	-3.9
3	☐	5.000	4.873	91277.55	0.0777	P	3.4	-2.5
4	☐	10.000	10.047	184353.51	0.1594	P	2.7	0.5
5	☐	100.000	96.844	1739956.22	1.5287	A	1.6	-3.2
6	☐	200.000	201.580	3527645.26	3.1810	A	2.4	0.8

y = 0.0158 * x + 8.7793E-004
R = 0.9998
DL = 0.02052 ppb
BEC = 0.05565 ppb

Weight: <None>
Min Conc: <None>

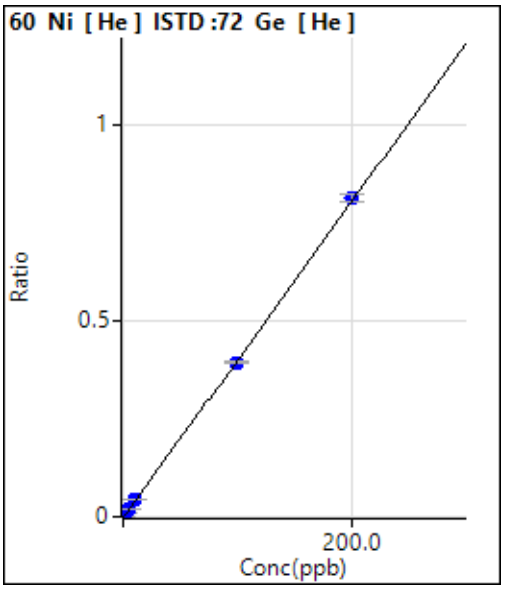
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4237.40	0.0010	P	1.1	
2	☐	2.000	1.918	25250.18	0.0060	P	1.5	-4.1
3	☐	5.000	4.998	57898.44	0.0140	P	2.2	0.0
4	☐	10.000	10.113	112049.36	0.0273	P	1.1	1.1
5	☐	100.000	98.616	1023925.77	0.2574	A	2.1	-1.4
6	☐	200.000	200.687	2025283.09	0.5228	A	1.4	0.3

y = 0.0026 * x + 0.0010
R = 1.0000
DL = 0.01257 ppb
BEC = 0.3916 ppb

Weight: <None>
Min Conc: <None>

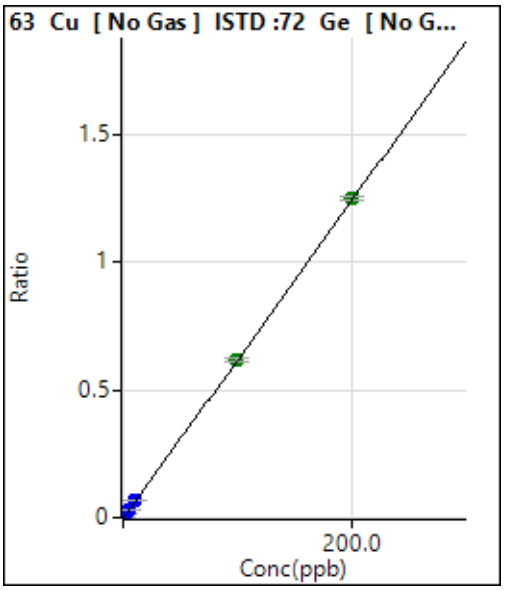


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	2.3	
2	☐	2.000	1.973	10907.82	0.0091	P	7.7	-1.3
3	☐	5.000	4.850	24391.83	0.0208	P	2.6	-3.0
4	☐	10.000	10.255	49315.27	0.0426	P	2.2	2.6
5	☐	100.000	97.350	449400.83	0.3948	P	1.8	-2.7
6	☐	200.000	201.316	904123.53	0.8153	P	2.0	0.7

y = 0.0040 * x + 0.0012
R = 0.9999
DL = 0.0196 ppb
BEC = 0.2877 ppb

Weight: <None>
Min Conc: <None>

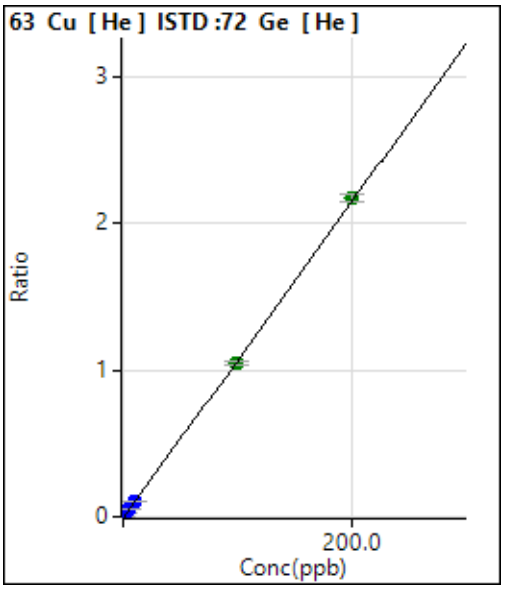
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7608.90	0.0018	P	4.3	
2	☐	2.000	2.006	60252.13	0.0143	P	3.6	0.3
3	☐	5.000	5.060	137858.86	0.0334	P	2.6	1.2
4	☐	10.000	10.184	267930.58	0.0653	P	2.0	1.8
5	☐	100.000	98.992	2461635.85	0.6188	A	1.8	-1.0
6	☐	200.000	200.493	4848458.99	1.2515	A	1.2	0.2

y = 0.0062 * x + 0.0018
R = 1.0000
DL = 0.03749 ppb
BEC = 0.2933 ppb

Weight: <None>
Min Conc: <None>

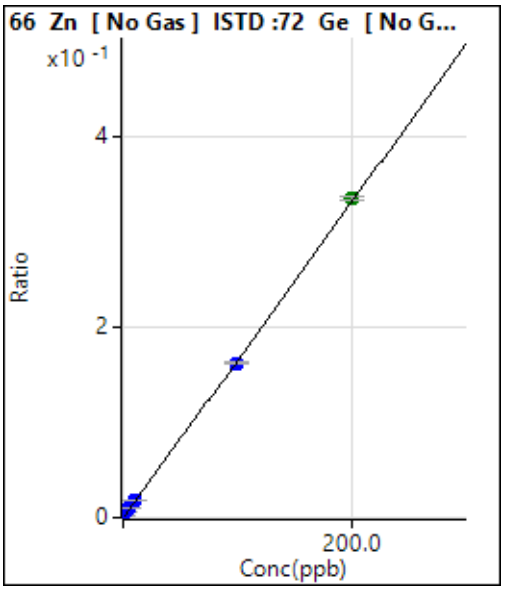


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.09	0.0011	P	16.3	
2	☐	2.000	1.925	26111.82	0.0219	P	2.4	-3.8
3	☐	5.000	4.936	63848.37	0.0544	P	1.2	-1.3
4	☐	10.000	10.015	126312.89	0.1092	P	0.4	0.1
5	☐	100.000	96.995	1193030.61	1.0482	A	1.7	-3.0
6	☐	200.000	201.504	2413664.39	2.1764	A	1.8	0.8

y = 0.0108 * x + 0.0011
R = 0.9998
DL = 0.04961 ppb
BEC = 0.1014 ppb

Weight: <None>
Min Conc: <None>

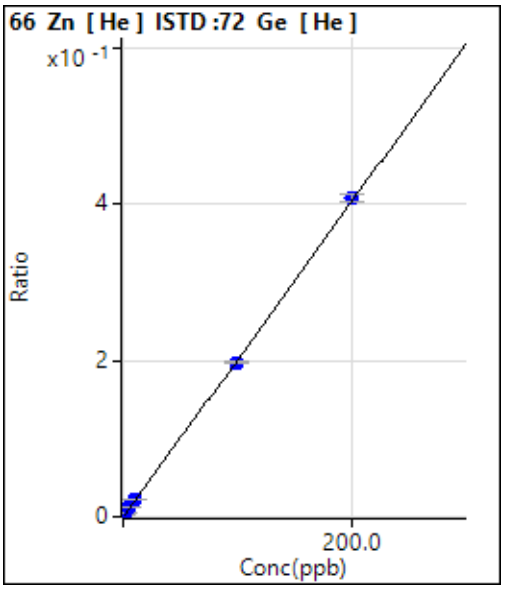
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4424.13	0.0011	P	4.0	
2	☐	2.000	2.492	21897.70	0.0052	P	3.4	24.6
3	☐	5.000	5.019	38885.42	0.0094	P	4.4	0.4
4	☐	10.000	10.061	73027.29	0.0178	P	1.2	0.6
5	☐	100.000	97.306	648074.41	0.1629	P	2.0	-2.7
6	☐	200.000	201.339	1301588.63	0.3360	A	1.5	0.7

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.07603 ppb
BEC = 0.639 ppb

Weight: <None>
Min Conc: <None>

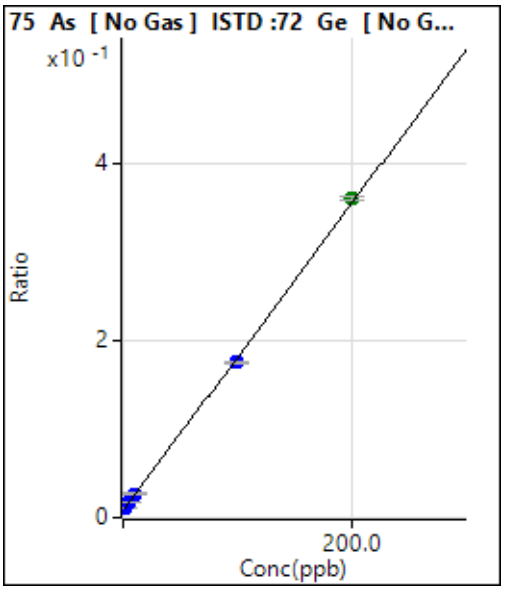


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1546.78	0.0013	P	6.9	
2	☐	2.000	2.350	7238.72	0.0061	P	0.9	17.5
3	☐	5.000	4.954	13299.97	0.0113	P	3.7	-0.9
4	☐	10.000	10.064	25053.27	0.0217	P	1.3	0.6
5	☐	100.000	97.122	224987.90	0.1977	P	1.9	-2.9
6	☐	200.000	201.433	453103.39	0.4086	P	2.6	0.7

y = 0.0020 * x + 0.0013
R = 0.9998
DL = 0.1336 ppb
BEC = 0.6498 ppb

Weight: <None>
Min Conc: <None>

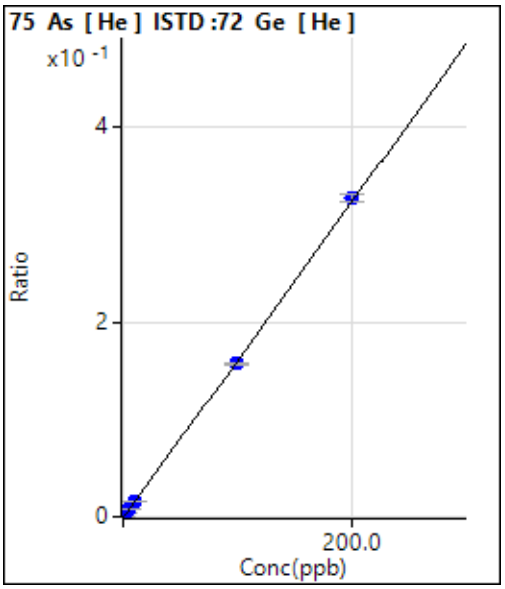
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41420.07	0.0100	P	2.2	
2	☐	2.000	0.174	43111.79	0.0103	P	0.8	-91.3
3	☐	5.000	4.236	71393.00	0.0173	P	2.2	-15.3
4	☐	10.000	9.765	110125.14	0.0268	P	2.7	-2.4
5	☐	100.000	95.313	695363.61	0.1748	P	1.6	-4.7
6	☐	200.000	202.393	1394740.55	0.3600	A	1.6	1.2

y = 0.0017 * x + 0.0100
R = 0.9996
DL = 0.3786 ppb
BEC = 5.754 ppb

Weight: <None>
Min Conc: <None>

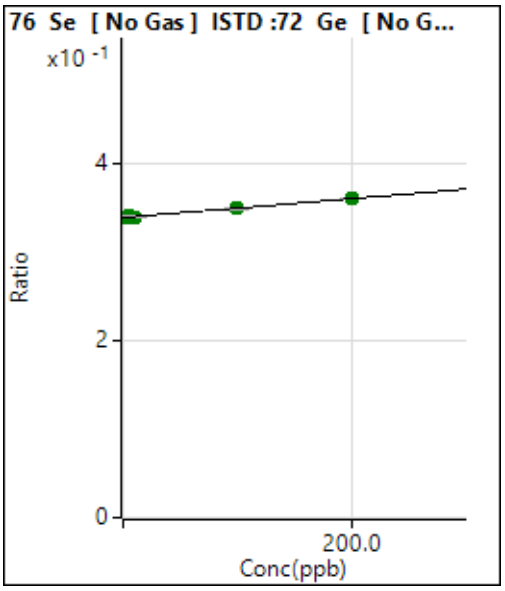


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	356.67	0.0003	P	6.9	
2	☐	2.000	1.841	3928.36	0.0033	P	3.7	-7.9
3	☐	5.000	4.835	9564.50	0.0081	P	4.6	-3.3
4	☐	10.000	9.803	18745.11	0.0162	P	1.3	-2.0
5	☐	100.000	96.787	179057.99	0.1573	P	1.7	-3.2
6	☐	200.000	201.622	363060.04	0.3274	P	2.6	0.8

y = 0.0016 * x + 3.0293E-004
R = 0.9998
DL = 0.03847 ppb
BEC = 0.1867 ppb

Weight: <None>
Min Conc: <None>

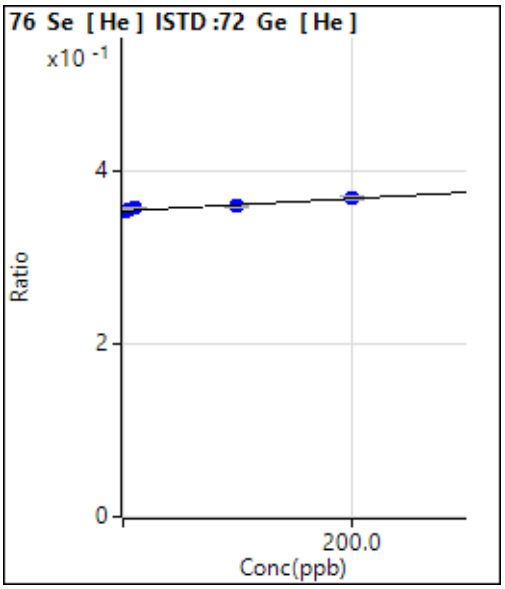
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1411471.07	0.3391	A	0.2	
2	☐	2.000	-6.447	1422952.53	0.3384	A	0.7	-422.4
3	☐	5.000	11.669	1406365.14	0.3404	A	0.6	133.4
4	☐	10.000	6.783	1394506.23	0.3399	A	0.4	-32.2
5	☐	100.000	95.860	1390091.65	0.3495	A	0.5	-4.1
6	☐	200.000	202.148	1398200.03	0.3609	A	0.3	1.1

y = 1.0766E-004 * x + 0.3391
R = 0.9980
DL = 22.78 ppb
BEC = 3150 ppb

Weight: <None>
Min Conc: <None>

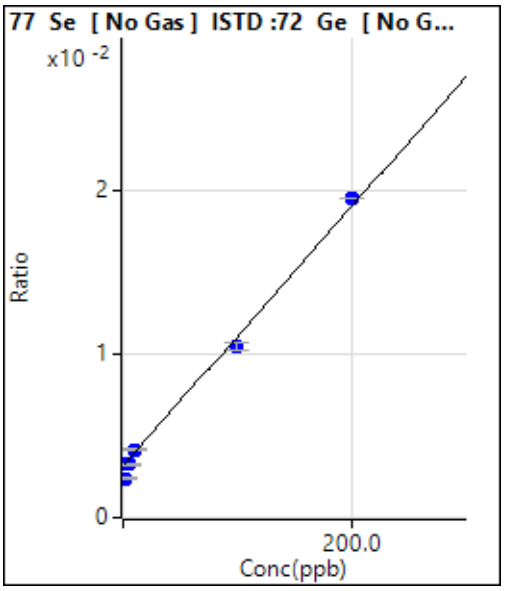


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416216.30	0.3534	P	0.2	
2	☐	2.000	-11.688	420892.72	0.3526	P	1.0	-684.4
3	☐	5.000	21.482	416774.79	0.3550	P	0.9	329.6
4	☐	10.000	49.882	412980.25	0.3571	P	0.7	398.8
5	☐	100.000	78.995	408769.76	0.3592	P	0.4	-21.0
6	☐	200.000	208.233	408732.73	0.3686	P	1.5	4.1

y = 7.2568E-005 * x + 0.3534
R = 0.9636
DL = 35.82 ppb
BEC = 4870 ppb

Weight: <None>
Min Conc: <None>

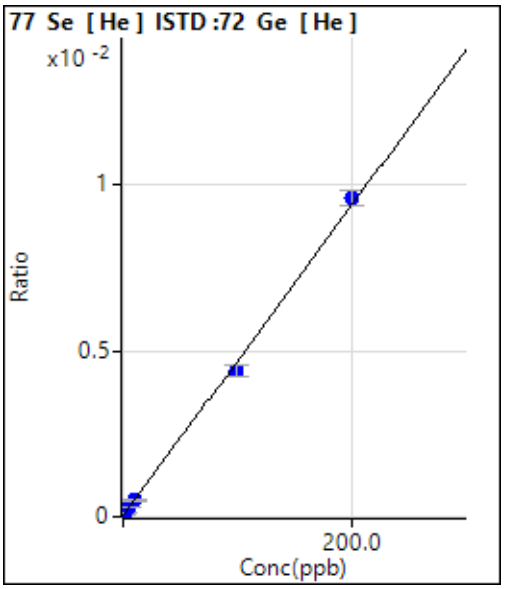
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13703.79	0.0033	P	1.8	
2	☐	2.000	-11.125	10137.27	0.0024	P	3.9	-656.3
3	☐	5.000	-0.623	13400.07	0.0032	P	2.7	-112.5
4	☐	10.000	10.886	17050.96	0.0042	P	2.4	8.9
5	☐	100.000	90.162	41516.84	0.0104	P	4.7	-9.8
6	☐	200.000	205.146	75736.43	0.0195	P	0.3	2.6

y = 7.9240E-005 * x + 0.0033
R = 0.9972
DL = 2.21 ppb
BEC = 41.55 ppb

Weight: <None>
Min Conc: <None>

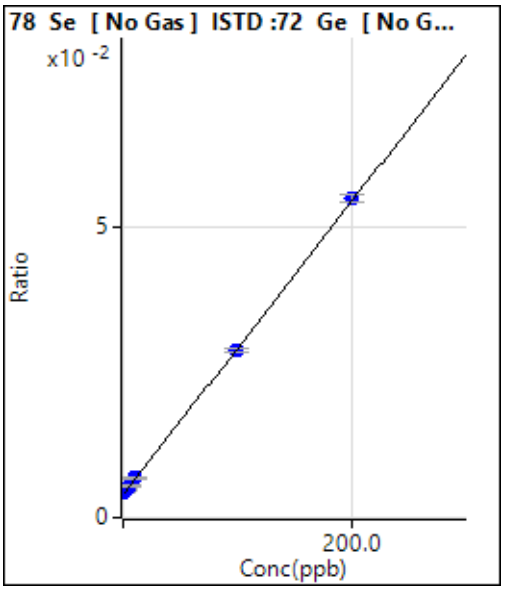


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	6.5	
2	☐	2.000	1.111	156.67	0.0001	P	8.5	-44.4
3	☐	5.000	4.796	356.68	0.0003	P	8.8	-4.1
4	☐	10.000	8.887	573.36	0.0005	P	8.1	-11.1
5	☐	100.000	92.779	5034.34	0.0044	P	8.2	-7.2
6	☐	200.000	203.680	10667.72	0.0096	P	4.4	1.8

y = 4.6838E-005 * x + 7.9270E-005
R = 0.9991
DL = 0.3311 ppb
BEC = 1.692 ppb

Weight: <None>
Min Conc: <None>

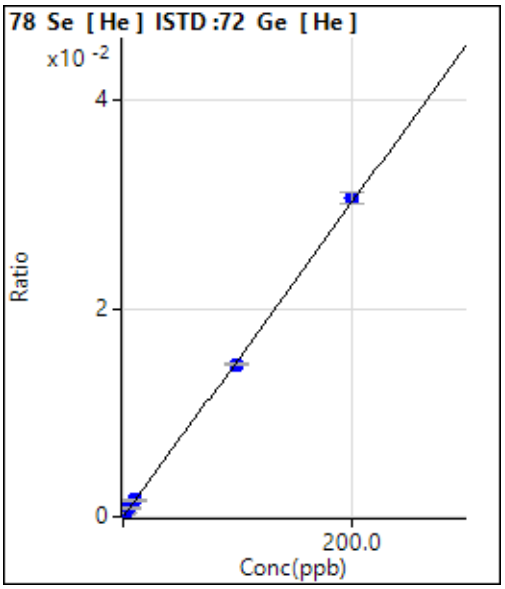
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17611.61	0.0042	P	2.6	
2	☐	2.000	2.103	20014.94	0.0048	P	2.4	5.2
3	☐	5.000	4.648	22311.83	0.0054	P	1.9	-7.0
4	☐	10.000	10.145	27828.68	0.0068	P	1.1	1.5
5	☐	100.000	97.785	114635.87	0.0288	P	2.4	-2.2
6	☐	200.000	201.108	212292.33	0.0548	P	2.0	0.6

y = 2.5143E-004 * x + 0.0042
R = 0.9999
DL = 1.302 ppb
BEC = 16.83 ppb

Weight: <None>
Min Conc: <None>

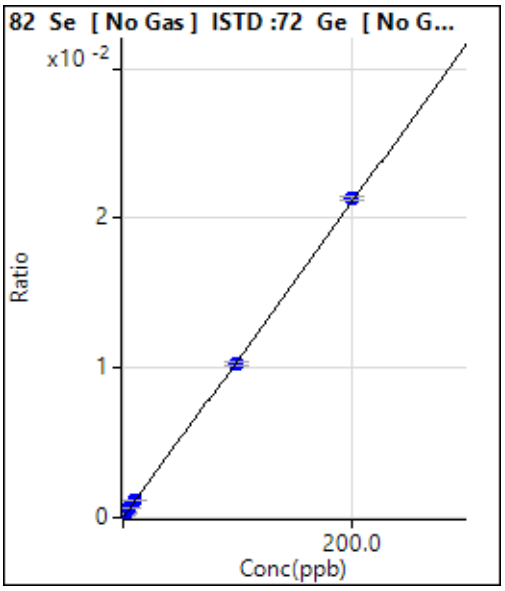


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	158.67	0.0001	P	8.1	
2	☐	2.000	2.023	525.34	0.0004	P	6.2	1.2
3	☐	5.000	4.647	981.37	0.0008	P	4.6	-7.1
4	☐	10.000	9.711	1850.80	0.0016	P	4.8	-2.9
5	☐	100.000	96.045	16650.84	0.0146	P	1.7	-4.0
6	☐	200.000	202.001	33953.46	0.0306	P	3.5	1.0

y = 1.5091E-004 * x + 1.3471E-004
R = 0.9997
DL = 0.216 ppb
BEC = 0.8926 ppb

Weight: <None>
Min Conc: <None>

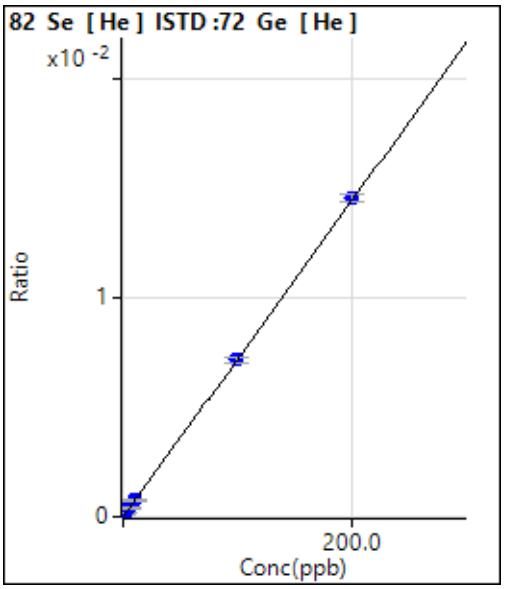
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	25.5	
2	☐	2.000	1.939	1290.09	0.0003	P	19.5	-3.1
3	☐	5.000	4.748	2490.28	0.0006	P	1.2	-5.0
4	☐	10.000	9.887	4694.22	0.0011	P	3.6	-1.1
5	☐	100.000	96.838	40985.51	0.0103	P	1.8	-3.2
6	☐	200.000	201.593	82664.00	0.0213	P	1.8	0.8

y = 1.0534E-004 * x + 1.0258E-004
R = 0.9998
DL = 0.7442 ppb
BEC = 0.9739 ppb

Weight: <None>
Min Conc: <None>

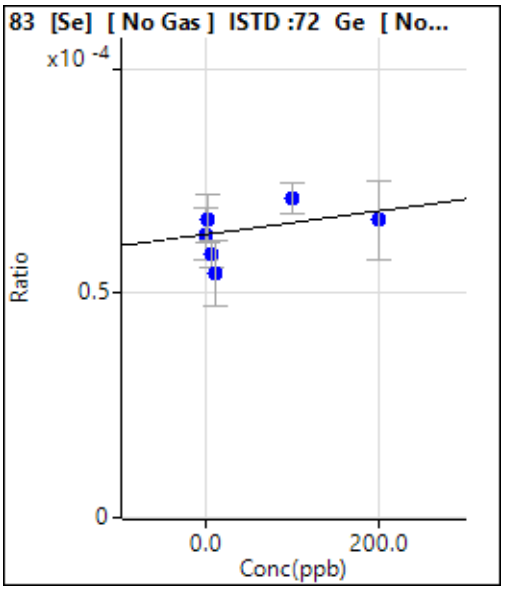


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	22.0	
2	☐	2.000	1.461	206.68	0.0002	P	20.2	-26.9
3	☐	5.000	4.684	476.68	0.0004	P	20.7	-6.3
4	☐	10.000	9.567	876.71	0.0008	P	9.0	-4.3
5	☐	100.000	98.378	8149.25	0.0072	P	3.4	-1.6
6	☐	200.000	200.846	16133.29	0.0145	P	2.0	0.4

y = 7.2094E-005 * x + 6.7964E-005
R = 1.0000
DL = 0.621 ppb
BEC = 0.9427 ppb

Weight: <None>
Min Conc: <None>

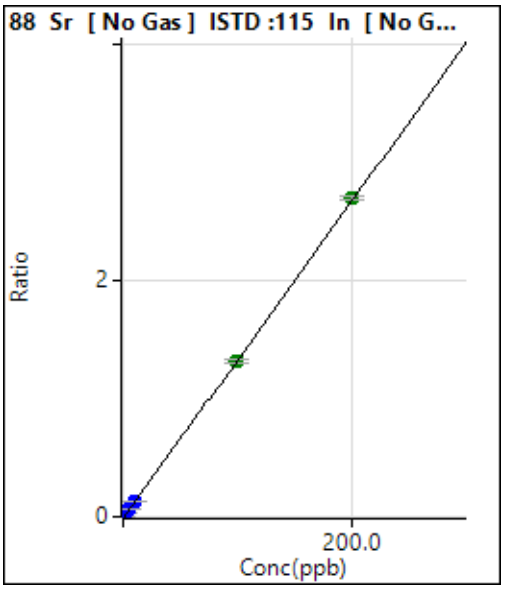
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	18.4	
2	☐	2.000	128.285	280.01	0.0001	P	16.3	6314.2
3	☐	5.000	-167.283	243.34	0.0001	P	10.2	-3445.7
4	☐	10.000	-339.012	223.34	0.0001	P	26.7	-3490.1
5	☐	100.000	305.817	283.34	0.0001	P	10.1	205.8
6	☐	200.000	117.586	256.68	0.0001	P	26.6	-41.2

y = 2.6064E-008 * x + 6.3252E-005
R = 0.5062
DL = 1341 ppb
BEC = 2427 ppb

Weight: <None>
Min Conc: <None>

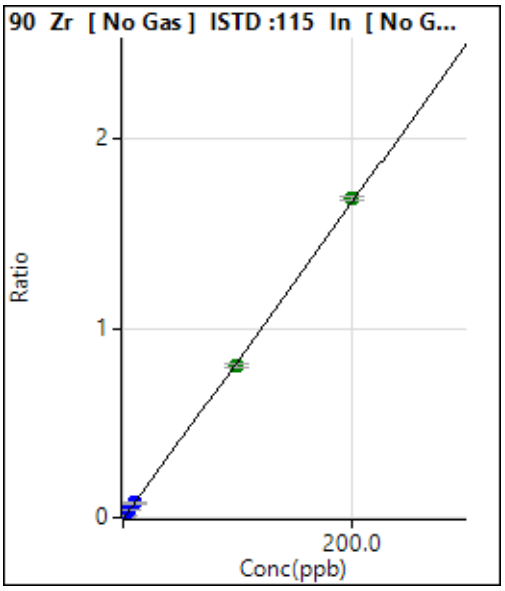


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4904.32	0.0009	P	7.3	
2	☐	2.000	1.864	137527.00	0.0259	P	1.2	-6.8
3	☐	5.000	4.711	337079.14	0.0641	P	1.1	-5.8
4	☐	10.000	9.534	674025.95	0.1287	P	0.6	-4.7
5	☐	100.000	97.841	6609469.07	1.3123	A	2.4	-2.2
6	☐	200.000	201.111	13219901.88	2.6964	A	1.3	0.6

y = 0.0134 * x + 9.2501E-004
R = 0.9999
DL = 0.01507 ppb
BEC = 0.06902 ppb

Weight: <None>
Min Conc: <None>

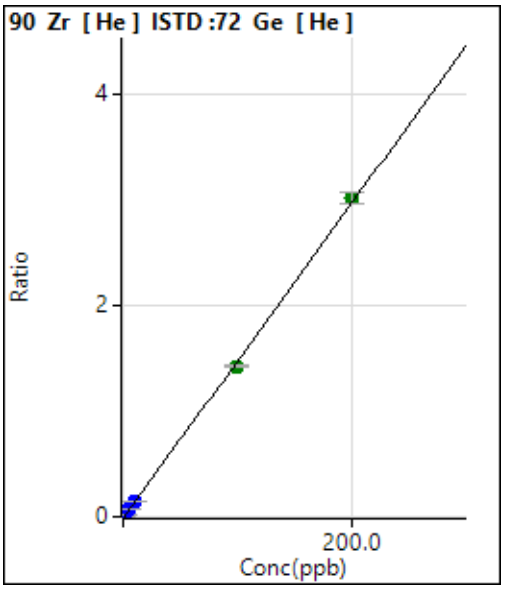
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2100.20	0.0004	P	19.4	
2	☐	2.000	1.596	72866.28	0.0137	P	1.3	-20.2
3	☐	5.000	4.327	192226.04	0.0365	P	1.7	-13.5
4	☐	10.000	9.154	402526.14	0.0769	P	1.8	-8.5
5	☐	100.000	96.419	4058347.96	0.8058	A	2.6	-3.6
6	☐	200.000	201.854	8268343.63	1.6864	A	1.4	0.9

y = 0.0084 * x + 3.9617E-004
R = 0.9998
DL = 0.02754 ppb
BEC = 0.04743 ppb

Weight: <None>
Min Conc: <None>

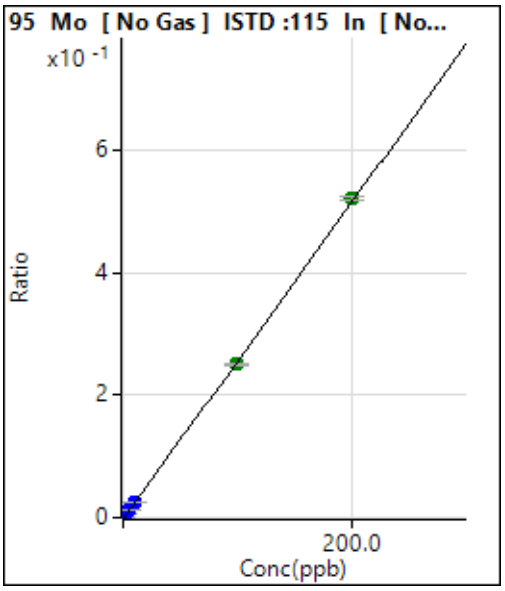


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0017	P	2.1	
2	☐	2.000	1.597	30474.83	0.0255	P	1.3	-20.2
3	☐	5.000	4.306	77360.72	0.0659	P	3.7	-13.9
4	☐	10.000	9.243	161276.68	0.1394	P	2.1	-7.6
5	☐	100.000	95.413	1619902.21	1.4232	A	2.0	-4.6
6	☐	200.000	202.353	3344962.35	3.0164	A	3.1	1.2

y = 0.0149 * x + 0.0017
R = 0.9997
DL = 0.007522 ppb
BEC = 0.1167 ppb

Weight: <None>
Min Conc: <None>

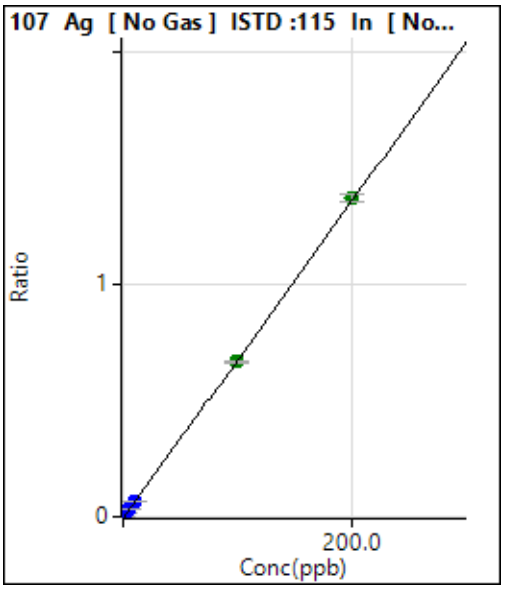
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0001	P	21.2	
2	☐	2.000	1.886	26265.88	0.0049	P	4.8	-5.7
3	☐	5.000	4.791	65532.40	0.0125	P	2.1	-4.2
4	☐	10.000	9.571	129939.16	0.0248	P	2.1	-4.3
5	☐	100.000	96.791	1260475.16	0.2503	A	2.0	-3.2
6	☐	200.000	201.632	2555596.78	0.5213	A	1.5	0.8

y = 0.0026 * x + 7.2253E-005
R = 0.9998
DL = 0.01779 ppb
BEC = 0.02795 ppb

Weight: <None>
Min Conc: <None>

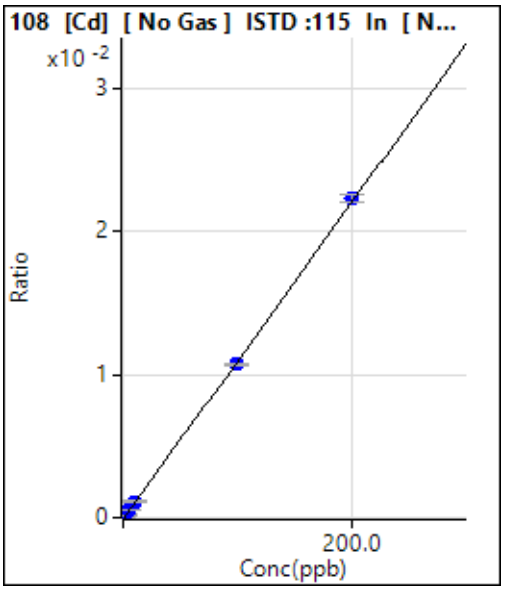


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1473.44	0.0003	P	9.2	
2	☐	2.000	1.978	73196.34	0.0138	P	2.4	-1.1
3	☐	5.000	4.937	178888.02	0.0340	P	1.2	-1.3
4	☐	10.000	9.934	356860.89	0.0681	P	1.9	-0.7
5	☐	100.000	97.700	3362962.35	0.6677	A	1.4	-2.3
6	☐	200.000	201.155	6738256.15	1.3744	A	2.2	0.6

y = 0.0068 * x + 2.7790E-004
R = 0.9999
DL = 0.01118 ppb
BEC = 0.04068 ppb

Weight: <None>
Min Conc: <None>

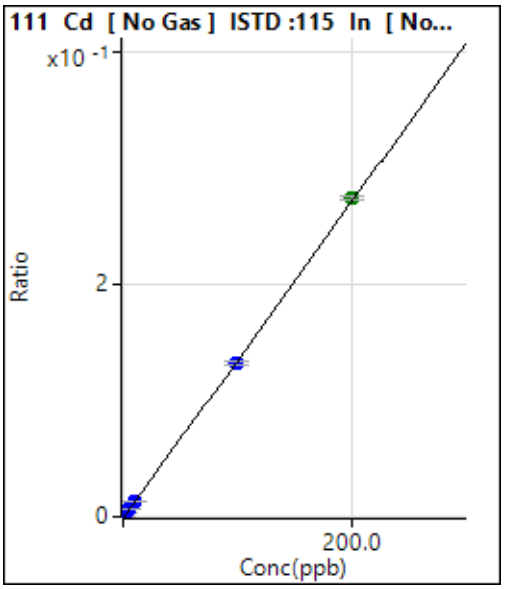
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	99.8	
2	☐	2.000	1.758	1053.40	0.0002	P	16.5	-12.1
3	☐	5.000	4.930	2893.71	0.0006	P	4.1	-1.4
4	☐	10.000	10.251	5968.10	0.0011	P	3.4	2.5
5	☐	100.000	96.634	53948.86	0.0107	P	1.3	-3.4
6	☐	200.000	201.674	109577.53	0.0224	P	1.9	0.8

y = 1.1080E-004 * x + 3.7564E-006
R = 0.9998
DL = 0.1015 ppb
BEC = 0.0339 ppb

Weight: <None>
Min Conc: <None>

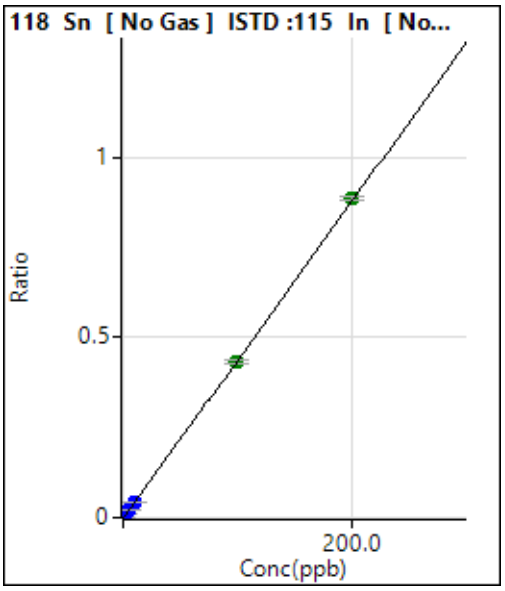


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	161.88	0.0000	P	17.1	
2	☐	2.000	1.958	14305.56	0.0027	P	3.2	-2.1
3	☐	5.000	4.876	35056.73	0.0067	P	2.6	-2.5
4	☐	10.000	9.727	69461.72	0.0133	P	1.0	-2.7
5	☐	100.000	97.128	665670.65	0.1322	P	2.1	-2.9
6	☐	200.000	201.453	1343775.42	0.2741	A	1.7	0.7

y = 0.0014 * x + 3.0559E-005
R = 0.9999
DL = 0.01152 ppb
BEC = 0.02246 ppb

Weight: <None>
Min Conc: <None>

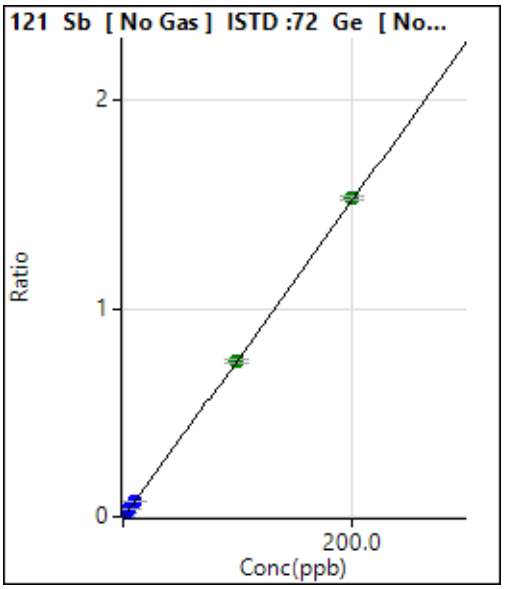
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8672.97	0.0016	P	4.3	
2	☐	2.000	1.777	50235.19	0.0095	P	1.9	-11.1
3	☐	5.000	4.844	120829.17	0.0230	P	2.4	-3.1
4	☐	10.000	9.771	233896.42	0.0447	P	1.8	-2.3
5	☐	100.000	97.909	2179718.82	0.4328	A	2.4	-2.1
6	☐	200.000	201.063	4348892.12	0.8870	A	1.5	0.5

y = 0.0044 * x + 0.0016
R = 0.9999
DL = 0.04822 ppb
BEC = 0.3715 ppb

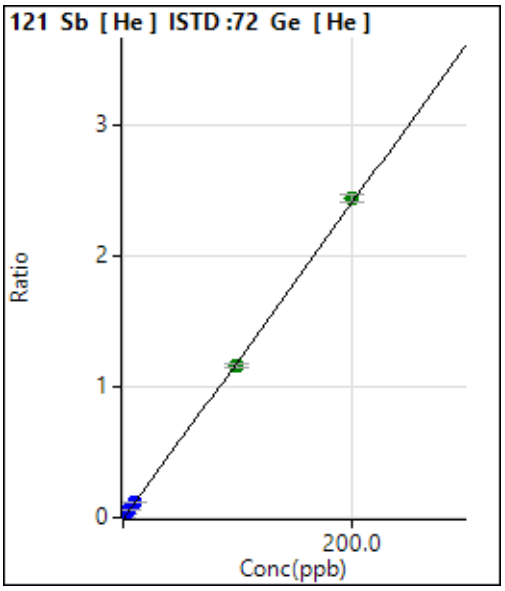
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1300.09	0.0003	P	6.4	
2	☐	2.000	1.927	63069.68	0.0150	P	2.9	-3.6
3	☐	5.000	4.830	153386.18	0.0371	P	1.8	-3.4
4	☐	10.000	9.841	309005.41	0.0753	P	2.5	-1.6
5	☐	100.000	97.922	2970035.48	0.7466	A	2.6	-2.1
6	☐	200.000	201.052	5937645.75	1.5326	A	0.9	0.5

y = 0.0076 * x + 3.1238E-004
R = 0.9999
DL = 0.007811 ppb
BEC = 0.04099 ppb

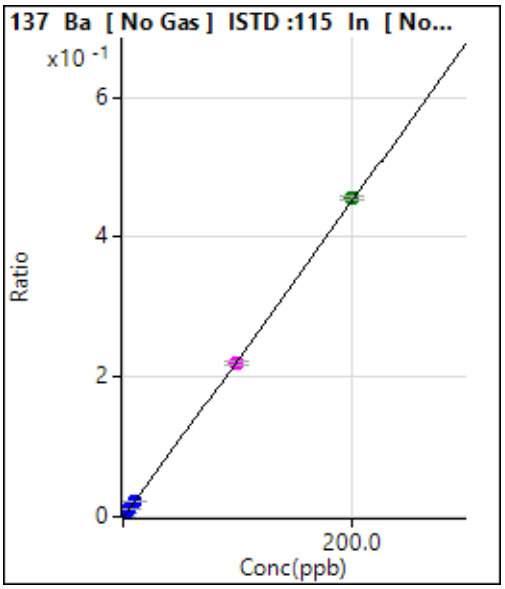
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	500.02	0.0004	P	15.2	
2	☐	2.000	1.854	27265.11	0.0228	P	2.9	-7.3
3	☐	5.000	4.709	67310.56	0.0573	P	1.9	-5.8
4	☐	10.000	9.697	136043.29	0.1176	P	2.3	-3.0
5	☐	100.000	95.928	1320040.99	1.1598	A	1.7	-4.1
6	☐	200.000	202.060	2708541.42	2.4424	A	2.6	1.0

y = 0.0121 * x + 4.2496E-004
R = 0.9997
DL = 0.016 ppb
BEC = 0.03516 ppb

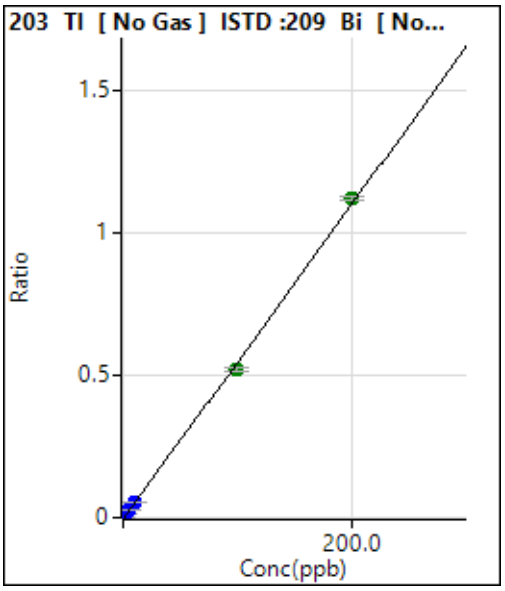
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.15	0.0003	P	10.7	
2	☐	2.000	1.879	24276.29	0.0046	P	2.6	-6.0
3	☐	5.000	4.818	59039.55	0.0112	P	4.2	-3.6
4	☐	10.000	9.605	115501.48	0.0221	P	0.7	-4.0
5	☐	100.000	97.269	1110159.10	0.2204	M	2.9	-2.7
6	☐	200.000	201.391	2235829.65	0.4560	A	1.4	0.7

y = 0.0023 * x + 3.2087E-004
R = 0.9999
DL = 0.04554 ppb
BEC = 0.1418 ppb

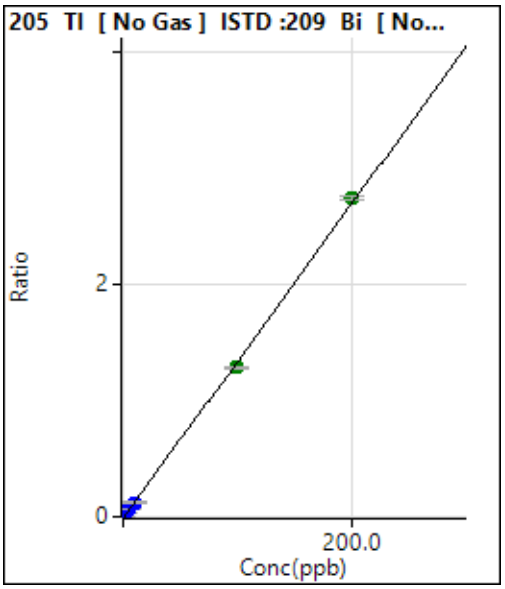
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.14	0.0003	P	7.8	
2	☐	2.000	1.878	55793.72	0.0107	P	2.8	-6.1
3	☐	5.000	4.593	135000.39	0.0257	P	2.0	-8.1
4	☐	10.000	9.304	270992.55	0.0517	P	2.8	-7.0
5	☐	100.000	94.454	2656535.90	0.5223	A	2.8	-5.5
6	☐	200.000	202.819	5571897.42	1.1211	A	0.9	1.4

y = 0.0055 * x + 3.1486E-004
R = 0.9995
DL = 0.01335 ppb
BEC = 0.05697 ppb

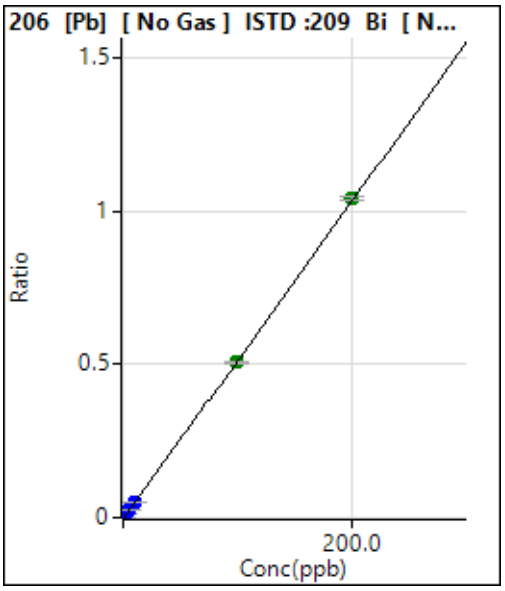
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4244.13	0.0008	P	4.2	
2	☐	2.000	1.804	131364.11	0.0252	P	1.7	-9.8
3	☐	5.000	4.409	317138.36	0.0604	P	2.2	-11.8
4	☐	10.000	9.034	643602.01	0.1229	P	2.6	-9.7
5	☐	100.000	94.683	6510474.90	1.2800	A	1.9	-5.3
6	☐	200.000	202.724	13615678.13	2.7396	A	1.2	1.4

y = 0.0135 * x + 8.0492E-004
R = 0.9995
DL = 0.007506 ppb
BEC = 0.05958 ppb

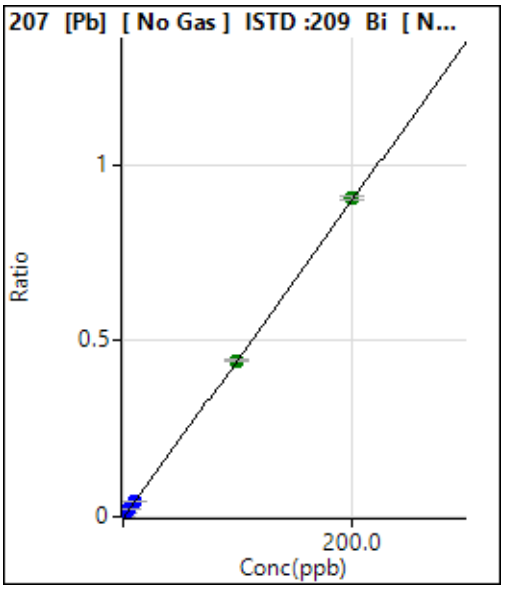
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2093.56	0.0004	P	1.4	
2	☐	2.000	1.997	56105.45	0.0108	P	3.6	-0.1
3	☐	5.000	4.917	136045.56	0.0259	P	1.4	-1.7
4	☐	10.000	9.875	270387.76	0.0516	P	1.2	-1.2
5	☐	100.000	97.799	2581850.59	0.5076	A	1.2	-2.2
6	☐	200.000	201.109	5185454.40	1.0434	A	1.1	0.6

y = 0.0052 * x + 3.9707E-004
R = 0.9999
DL = 0.003131 ppb
BEC = 0.07656 ppb

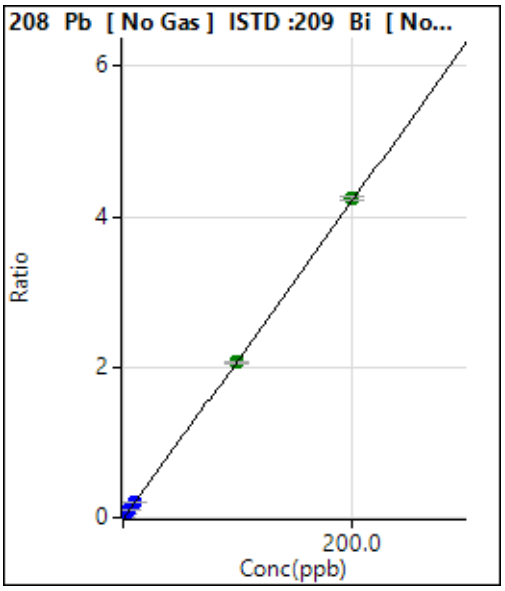
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1683.48	0.0003	P	17.7	
2	☐	2.000	1.953	47653.75	0.0091	P	2.7	-2.3
3	☐	5.000	4.892	117666.31	0.0224	P	1.5	-2.2
4	☐	10.000	9.855	234677.64	0.0448	P	1.0	-1.5
5	☐	100.000	98.236	2256621.22	0.4437	A	1.4	-1.8
6	☐	200.000	200.892	4507385.76	0.9070	A	0.7	0.4

y = 0.0045 * x + 3.1925E-004
R = 0.9999
DL = 0.03765 ppb
BEC = 0.07074 ppb

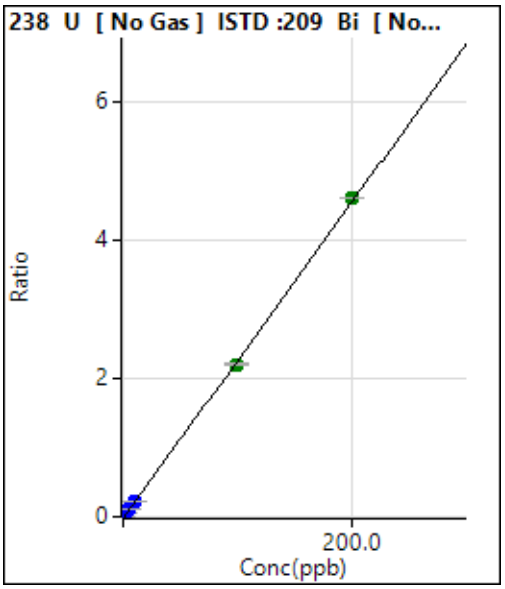
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8201.26	0.0016	P	3.9	
2	☐	2.000	1.928	220534.58	0.0423	P	2.9	-3.6
3	☐	5.000	4.791	539540.36	0.1027	P	1.4	-4.2
4	☐	10.000	9.714	1082670.58	0.2067	P	1.2	-2.9
5	☐	100.000	97.924	10524649.43	2.0692	A	1.2	-2.1
6	☐	200.000	201.058	21106062.91	4.2468	A	1.1	0.5

y = 0.0211 * x + 0.0016
R = 0.9999
DL = 0.008711 ppb
BEC = 0.07367 ppb

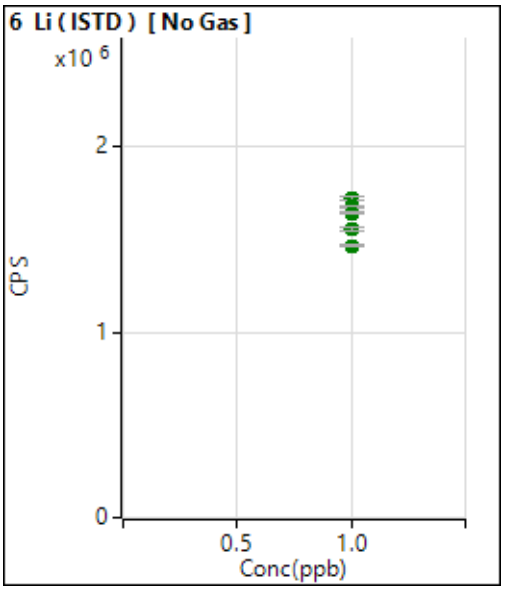
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Min Conc: <None>



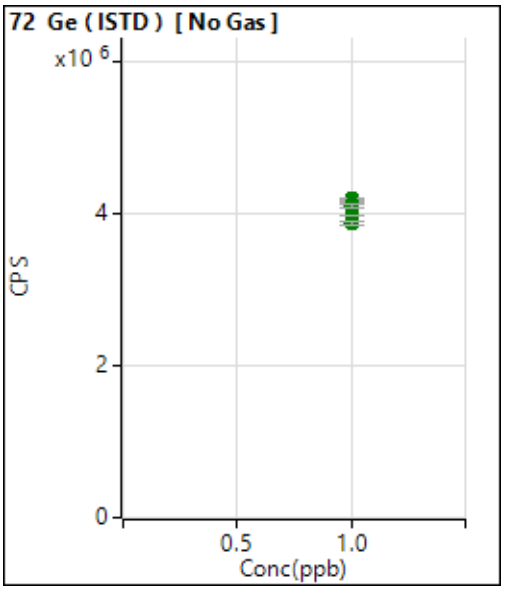
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5417.97	0.0010	P	3.9	
2	☐	2.000	1.829	223446.58	0.0428	P	0.8	-8.5
3	☐	5.000	4.528	548908.05	0.1045	P	1.6	-9.4
4	☐	10.000	9.306	1119428.45	0.2137	P	1.0	-6.9
5	☐	100.000	96.488	11219859.42	2.2059	A	1.4	-3.5
6	☐	200.000	201.804	22922825.49	4.6125	A	0.4	0.9

y = 0.0229 * x + 0.0010
R = 0.9998
DL = 0.005247 ppb
BEC = 0.04497 ppb

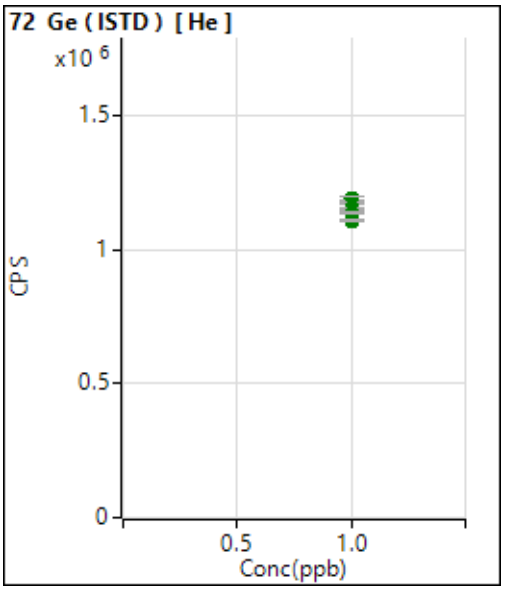
Weight: <None>
Min Conc: <None>



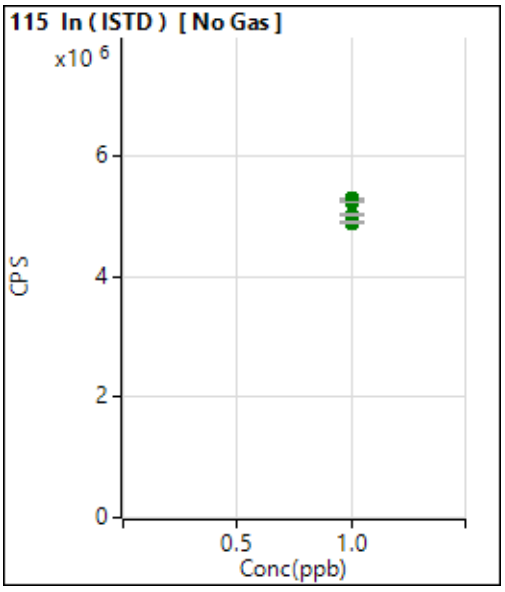
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1709896.43		A	0.1	
2	☐	1.000		1722227.11		A	0.8	
3	☐	1.000		1676112.40		A	0.7	
4	☐	1.000		1644380.63		A	0.5	
5	☐	1.000		1556073.15		A	1.2	
6	☐	1.000		1464767.87		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4162003.17		A	0.4	
2	☐	1.000		4204480.88		A	0.1	
3	☐	1.000		4131653.38		A	0.1	
4	☐	1.000		4103178.79		A	0.7	
5	☐	1.000		3977893.69		A	0.2	
6	☐	1.000		3874294.11		A	0.8	

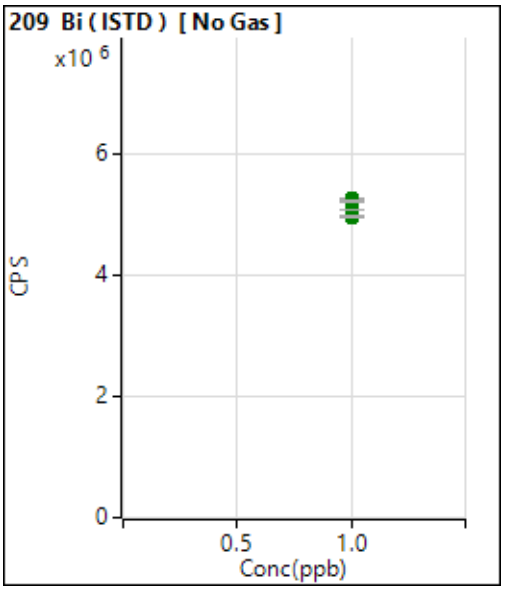


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177618.06		A	1.0	
2	☐	1.000		1193812.90		A	1.4	
3	☐	1.000		1174066.93		A	0.9	
4	☐	1.000		1156621.96		A	0.7	
5	☐	1.000		1138105.48		A	0.7	
6	☐	1.000		1109115.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5301074.33		A	0.7	
2	☐	1.000		5309002.67		A	0.4	
3	☐	1.000		5261197.90		A	0.4	
4	☐	1.000		5237070.79		A	0.0	
5	☐	1.000		5036649.90		A	0.1	
6	☐	1.000		4903058.98		A	0.8	

Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5272521.38		A	0.1	
2	☐	1.000		5216993.47		A	0.7	
3	☐	1.000		5253118.88		A	0.0	
4	☐	1.000		5239227.94		A	0.6	
5	☐	1.000		5086380.97		A	0.1	
6	☐	1.000		4969671.91		A	0.5	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	021LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:06:42-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.887	1.887	0.85	142538	0.00	2	
Be	9	1	No Gas	1.906	1.906	1.63	13448	0.01	2	
V	51	2	He	1.710	1.710	2.23	22824	0.01	2	
Cr	52	2	He	1.687	1.687	0.55	32342	0.01	2	
Fe	56	2	He	194.077	194.077	2.51	2222891	0.01	200	
Se	78	2	He	1.986	1.986	7.88	504	0.39	2	
As	75	2	He	1.915	1.915	4.15	3956	0.05	2	
Ca	44	2	He	194.320	194.320	3.64	14651	1.33	200	
Na	23	2	He	157.703	157.703	1.67	568895	0.03	200	
Mg	24	2	He	191.882	191.882	2.24	216658	0.09	200	
K	39	2	He	193.016	193.016	2.99	370252	0.05	200	
Mn	55	2	He	1.883	1.883	8.32	19117	0.01	2	
Co	59	2	He	1.966	1.966	2.40	37003	0.01	2	
Ni	60	2	He	1.952	1.952	3.91	10508	0.02	2	
Cu	63	2	He	2.007	2.007	1.89	26402	0.01	2	
Zn	66	2	He	2.612	2.612	9.01	7652	0.03	2	NewName Main CR1 Failed
Al	27	2	He	1.254	1.254	18.09	2937	0.04	2	NewName Main CR1 Failed
B	11	1	No Gas	9.336	9.336	4.28	55461	0.02	10	
Al	27	1	No Gas	1.389	1.389	5.55	116930	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	8.836	8.836	5.52	549379	0.00	10	
Ag	107	1	No Gas	2.026	2.026	4.17	73324	0.00	2	
Cd	111	1	No Gas	2.020	2.020	3.35	14430	0.01	2	
Sr	88	1	No Gas	1.886	1.886	3.15	136055	0.00	2	
Mo	95	1	No Gas	1.947	1.947	3.45	26513	0.01	2	
Sn	118	1	No Gas	1.835	1.835	1.63	50463	0.00	2	
Sb	121	1	No Gas	1.995	1.995	3.66	63717	0.00	2	
Ba	137	1	No Gas	1.930	1.930	2.25	24343	0.01	2	
Tl	205	1	No Gas	1.809	1.809	1.21	131529	0.00	2	
Tl	203	1	No Gas	1.866	1.866	3.57	55389	0.00	2	
Pb	208	1	No Gas	1.952	1.952	2.88	222876	0.00	2	
U	238	1	No Gas	1.856	1.856	1.19	226402	0.00	2	
Ca	43	2	He	182.428	182.428	16.34	780	23.39	200	
Sb	121	2	He	1.906	1.906	0.73	27212	0.01	2	
Ti	47	2	He	2.029	2.029	15.75	837	0.24	200	
Cu	63	1	No Gas	1.982	1.982	0.75	58226	0.00	2	
Se	82	1	No Gas	1.747	1.747	4.52	1177	0.15	2	
Zr	90	1	No Gas	1.729	1.729	3.32	77056	0.00	2	
Zr	90	2	He	1.709	1.709	2.84	31551	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1659167	0.24	1709896	97.03	70	120	
Ge	72	2	He	1160167	0.44	1177618	98.52	70	120	
Ge	72	1	No Gas	4105531	0.39	4162003	98.64	70	120	
In	115	1	No Gas	5193231	0.27	5301074	97.97	70	120	
Bi	209	1	No Gas	5210604	0.56	5272521	98.83	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	022LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:09:06-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.775	4.775	1.69	214284	0.00	5	
Be	9	1	No Gas	4.719	4.719	1.64	31994	0.01	5	
V	51	2	He	4.896	4.896	1.35	55846	0.01	5	
Cr	52	2	He	4.941	4.941	0.90	70492	0.01	5	
Fe	56	2	He	502.613	502.613	2.06	5674368	0.01	500	
Se	78	2	He	5.089	5.089	5.84	1045	0.49	5	
As	75	2	He	5.038	5.038	2.24	9808	0.05	5	
Ca	44	2	He	494.073	494.073	2.20	35081	1.41	500	
Na	23	2	He	470.021	470.021	1.19	1129543	0.04	500	
Mg	24	2	He	499.465	499.465	1.18	558104	0.09	500	
K	39	2	He	498.153	498.153	1.21	768130	0.06	500	
Mn	55	2	He	4.975	4.975	4.62	47512	0.01	5	
Co	59	2	He	5.076	5.076	2.37	93687	0.01	5	
Ni	60	2	He	5.212	5.212	4.45	25738	0.02	5	
Cu	63	2	He	5.203	5.203	3.15	66266	0.01	5	
Zn	66	2	He	5.036	5.036	2.39	13303	0.04	5	
Al	27	2	He	5.320	5.320	8.59	5845	0.09	5	
B	11	1	No Gas	23.623	23.623	1.48	108635	0.02	25	
Al	27	1	No Gas	5.231	5.231	3.31	220662	0.00	5	
Si	28	1	No Gas	24.655	24.655	4.61	752069	0.00	25	
Ag	107	1	No Gas	5.047	5.047	2.99	180919	0.00	5	
Cd	111	1	No Gas	4.892	4.892	3.40	34801	0.01	5	
Sr	88	1	No Gas	4.767	4.767	1.92	337352	0.00	5	
Mo	95	1	No Gas	4.856	4.856	2.74	65713	0.01	5	
Sn	118	1	No Gas	4.878	4.878	1.52	120332	0.00	5	
Sb	121	1	No Gas	4.991	4.991	2.36	156027	0.00	5	
Ba	137	1	No Gas	4.932	4.932	2.85	59763	0.01	5	
Tl	205	1	No Gas	4.559	4.559	2.03	326752	0.00	5	
Tl	203	1	No Gas	4.729	4.729	1.24	138499	0.00	5	
Pb	208	1	No Gas	4.928	4.928	1.49	552988	0.00	5	
U	238	1	No Gas	4.644	4.644	1.29	561011	0.00	5	
Ca	43	2	He	535.203	535.203	6.36	2180	24.55	500	
Sb	121	2	He	4.941	4.941	0.57	69593	0.01	5	
Ti	47	2	He	4.755	4.755	5.08	1920	0.25	5	
Cu	63	1	No Gas	5.092	5.092	1.01	136569	0.00	5	
Se	82	1	No Gas	5.062	5.062	6.57	2587	0.20	5	
Zr	90	1	No Gas	4.429	4.429	2.49	194640	0.00	5	
Zr	90	2	He	4.610	4.610	0.99	81489	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1620047	0.35	1709896	94.75	70	120	

Sample Report

Ge	72	2	He	1157270	0.24	1177618	98.27	70	120	
Ge	72	1	No Gas	4068466	0.41	4162003	97.75	70	120	
In	115	1	No Gas	5205280	0.29	5301074	98.19	70	120	
Bi	209	1	No Gas	5236127	0.60	5272521	99.31	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	024_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:13:55-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.041	-111.0	90225	1.0	0.5	
Be	9	1	No Gas	0.001	982.5	363	22.1	0.5	
V	51	2	He	-0.077	-9.3	4258	2.9	2.5	
Cr	52	2	He	-0.044	-92.4	12022	3.6	2.5	
Fe	56	2	He	4.131	3.7	89640	1.5	100	
Se	78	2	He	0.118	61.1	178	5.8	1	
As	75	2	He	0.013	62.5	379	5.4	2.5	
Ca	44	2	He	69.218	3.3	6128	2.0	100	
Na	23	2	He	-31.072	-6.1	229825	0.4	100	
Mg	24	2	He	3.369	11.0	6555	5.0	100	
K	39	2	He	-2.307	-48.0	115081	1.0	100	
Mn	55	2	He	0.167	7.5	3307	4.1	2.5	
Co	59	2	He	0.013	23.5	1267	3.9	2.5	
Ni	60	2	He	0.200	13.1	2307	6.6	2.5	
Cu	63	2	He	0.085	23.1	2347	9.7	1	
Zn	66	2	He	0.887	13.1	3631	8.2	2.5	
Al	27	2	He	2.696	4.4	4001	1.1	5	
B	11	1	No Gas	0.047	376.8	18984	4.1	0.5	
Al	27	1	No Gas	2.790	7.5	154285	3.1	5	
Si	28	1	No Gas	5.246	13.2	498127	2.3	10	
Ag	107	1	No Gas	0.010	45.0	1817	9.7	2.5	
Cd	111	1	No Gas	-0.008	-82.8	99	49.4	1	
Sr	88	1	No Gas	0.176	3.1	17091	2.3	2.5	
Mo	95	1	No Gas	0.008	95.5	487	21.6	2.5	
Sn	118	1	No Gas	-0.027	-61.7	7879	5.3	5	
Sb	121	1	No Gas	0.016	26.4	1783	7.7	2.5	
Ba	137	1	No Gas	0.226	6.3	4324	4.4	2.5	
Tl	205	1	No Gas	0.005	92.0	4568	7.5	1	
Tl	203	1	No Gas	0.007	158.4	1837	16.5	1	
Pb	208	1	No Gas	0.006	26.3	8805	1.9	2.5	
U	238	1	No Gas	0.006	88.6	6068	10.4	2.5	
Ca	43	2	He	74.928	26.0	353	21.6	100	
Sb	121	2	He	0.015	26.1	703	6.4	2.5	
Ti	47	2	He	0.001	6705.0	27	57.3	2.5	
Se	82	1	No Gas	0.130	131.5	473	14.8	1	
Zr	90	1	No Gas	0.042	15.1	3894	6.9	2.5	
Zr	90	2	He	0.045	22.8	2807	5.1	2.5	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1641365	0.49	1709896	95.99	70	120	
Ge	72	2	He	1168101	1.28	1177618	99.19	70	120	
Ge	72	1	No Gas	4074953	0.86	4162003	97.91	70	120	
In	115	1	No Gas	5195093	0.85	5301074	98.00	70	120	
Bi	209	1	No Gas	5218548	0.55	5272521	98.98	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	026ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:18:47-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.392	15.0	94346	2.0	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.030	21.0	520	7.3	0	ICSA Main CR1 Failed
V	51	2	He	0.211	8.8	7094	1.9	0	ICSA Main CR1 Failed
Cr	52	2	He	0.808	5.0	21584	3.1	0	ICSA Main CR1 Failed
Fe	56	2	He	96527.332	2.3	1064156384	1.9	0	
Se	78	2	He	0.024	608.9	157	14.9	0	ICSA Main CR1 Failed
As	75	2	He	0.362	6.2	1013	4.7	0	ICSA Main CR1 Failed
Ca	44	2	He	98037.236	3.6	6586553	3.2	0	
Na	23	2	He	98284.266	2.9	174290804	2.2	0	
Mg	24	2	He	97064.818	2.0	106182292	1.5	0	
K	39	2	He	97964.607	2.3	126081198	1.7	0	
Mn	55	2	He	1.726	2.2	17334	1.1	0	ICSA Main CR1 Failed
Co	59	2	He	0.956	2.1	18172	1.9	0	ICSA Main CR1 Failed
Ni	60	2	He	1.007	4.3	5961	3.3	0	ICSA Main CR1 Failed
Cu	63	2	He	0.690	2.3	9730	1.4	0	ICSA Main CR1 Failed
Zn	66	2	He	3.182	5.2	8820	3.6	0	ICSA Main CR1 Failed
Al	27	2	He	98851.983	2.1	69717736	1.6	0	
B	11	1	No Gas	1.499	4.0	22830	0.9	0	
Al	27	1	No Gas	95337.832	2.8	2489547696	1.5	0	
Si	28	1	No Gas	37.439	3.7	880967	3.0	0	
Ag	107	1	No Gas	0.046	12.3	2797	6.2	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.793	4.4	5271	4.3	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.886	2.8	60810	2.4	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1990.188	1.1	24442532	0.9	0	
Sn	118	1	No Gas	0.124	14.7	10361	3.6	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.076	3.0	3461	1.8	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.556	0.9	7506	0.9	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.008	106.5	4271	12.5	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.012	47.0	1770	7.8	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.863	4.4	92477	3.9	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.017	37.5	6602	10.1	0	ICSA Main CR1 Failed
Ca	43	2	He	94948.389	2.7	371446	2.4	0	
Sb	121	2	He	0.072	2.2	1473	2.1	0	ICSA Main CR1 Failed
Ti	47	2	He	1948.235	3.2	763310	2.9	0	
Se	82	1	No Gas	0.277	79.5	513	17.6	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1523893	0.48	1709896	89.12	70	120	
Ge	72	2	He	1138644	0.94	1177618	96.69	70	120	
Ge	72	1	No Gas	3896285	1.47	4162003	93.62	70	120	
In	115	1	No Gas	4751392	0.36	5301074	89.63	70	120	
Bi	209	1	No Gas	4678059	0.43	5272521	88.73	70	120	