LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 21

2024

Bate Stamp Number
01249951 – 01251927

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2024

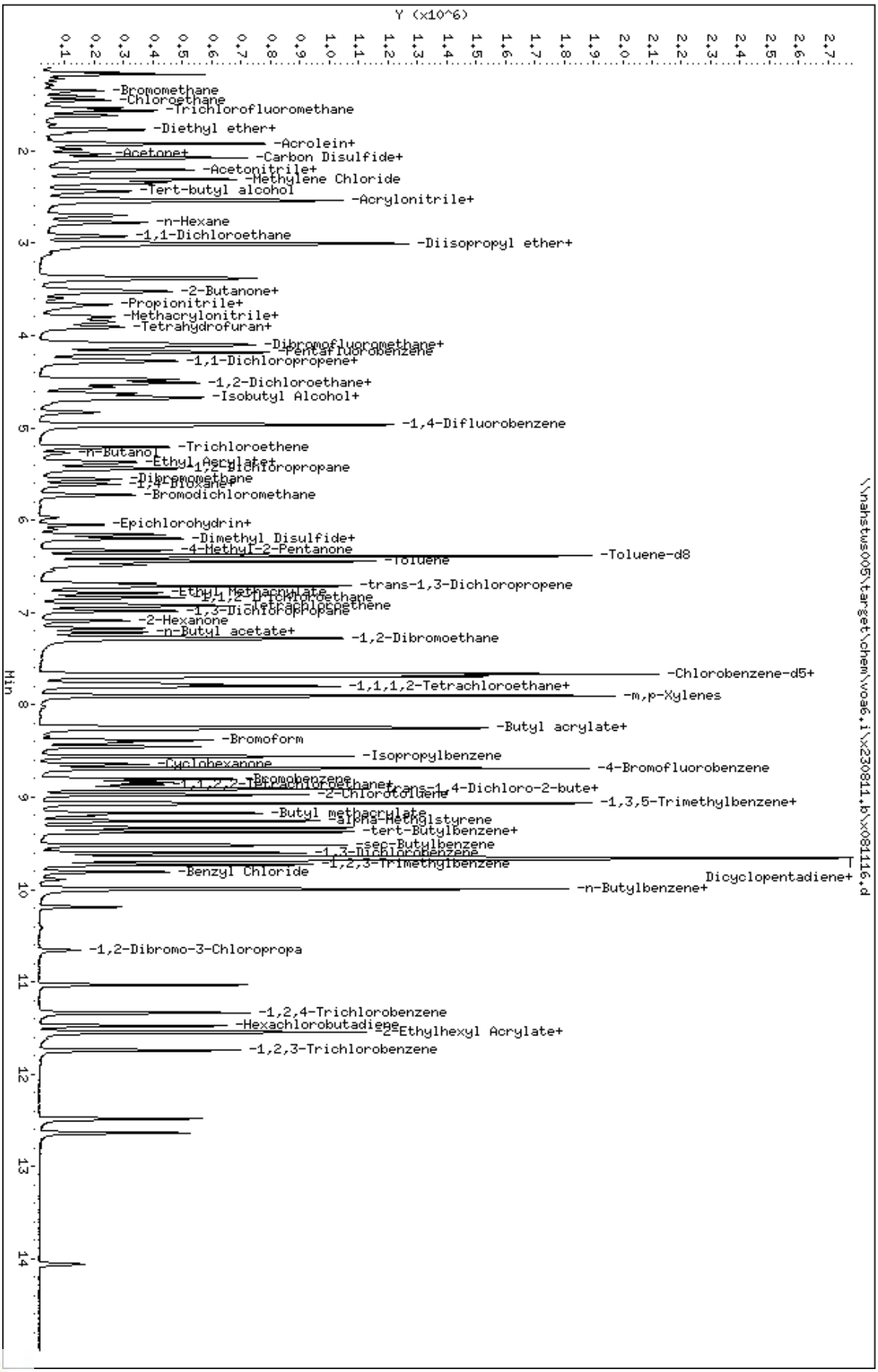
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX

VOLUME 21

2024

A.	Title:	Report (Cont'd) – Appendix C, File 1 to Quarterly Evaluation Report, 3rd Quarter (July-September) 2023, Groundwater Treatment Plant, Longhorn Army Ammunition Plant Karnack, Texas
	Author(s):	PCI-Bhate JV
	Recipient:	Environmental Protection Agency and Texas Commission on Environmental Quality
	Date:	May 16, 2024
	Bate Stamp:	01249951–01251091

B.	Title:	Report (Cont'd) – Appendix C, File 2 to Quarterly Evaluation Report, 3rd Quarter (July-September) 2023, Groundwater Treatment Plant, Longhorn Army Ammunition Plant Karnack, Texas
	Author(s):	PCI-Bhate JV
	Recipient:	Environmental Protection Agency and Texas Commission on Environmental Quality
	Date:	May 16, 2024
	Bate Stamp:	01251092–01251927



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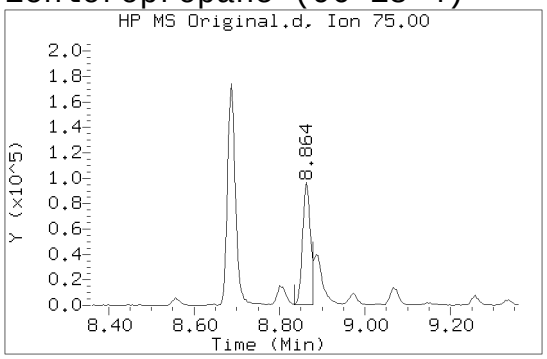
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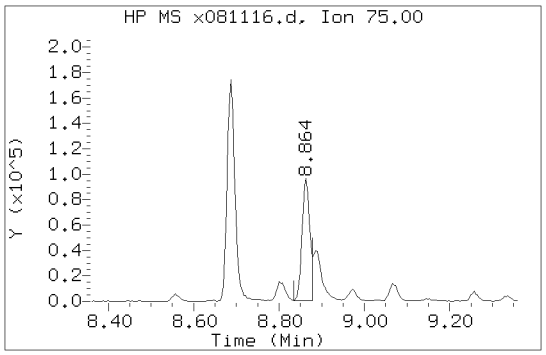
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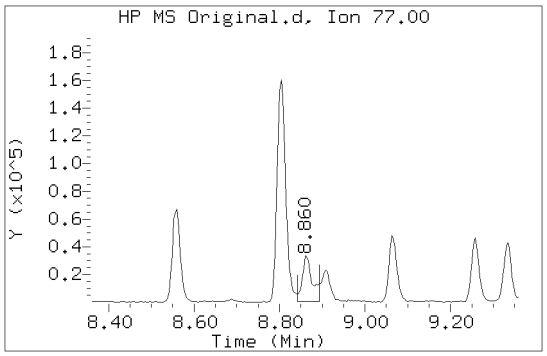
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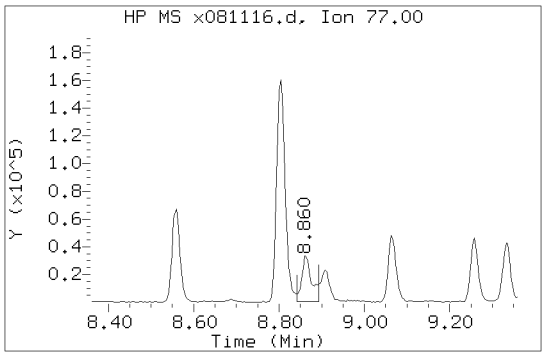
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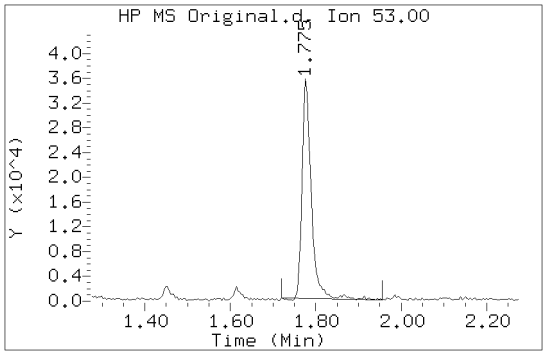
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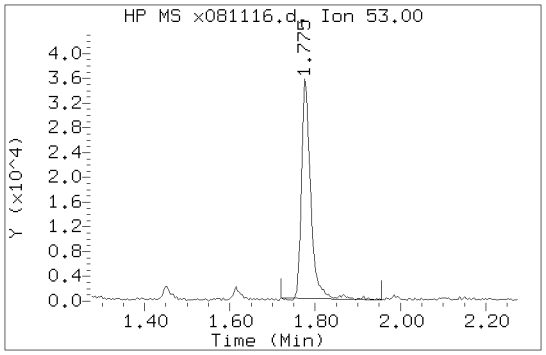
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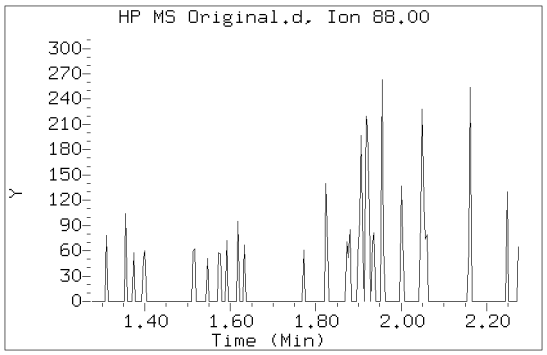
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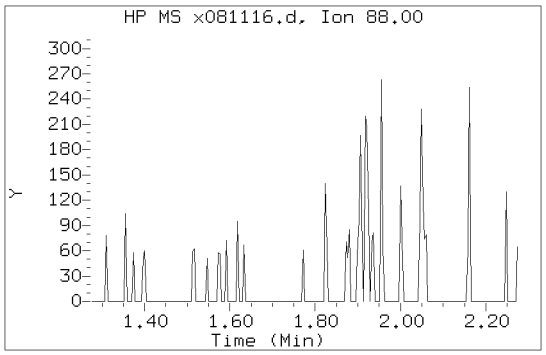
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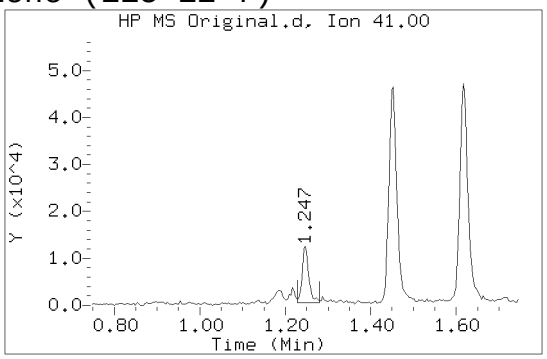
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LabSampID : VLCSW-230811

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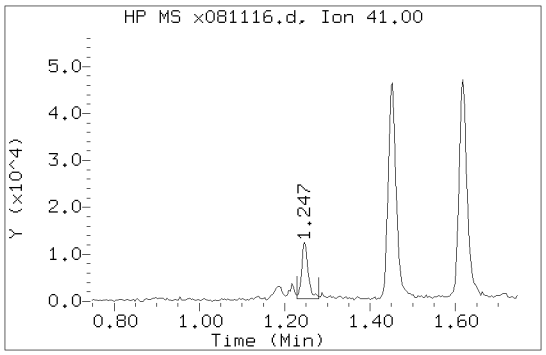
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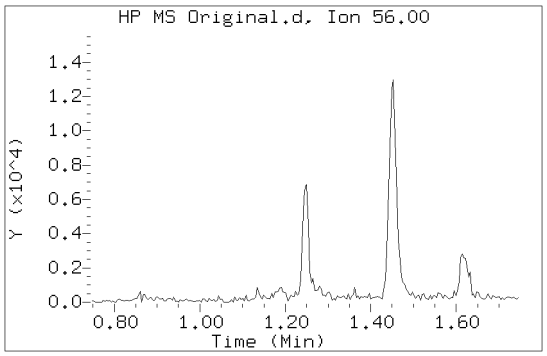
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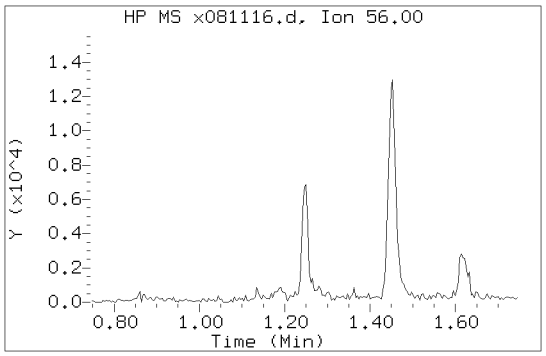
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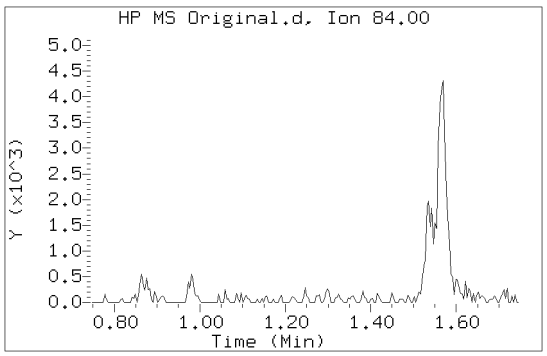
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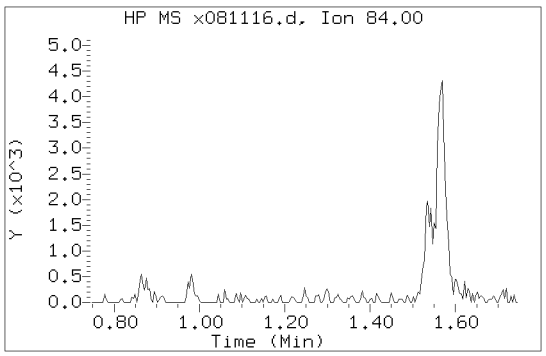
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12-Aug-2023
23:13



AFTER

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12-Aug-2023
23:13



ALS Laboratory Group

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Operator : PC Inst ID: voa6.i
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Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 12-Aug-2023 23:09 pcabasca Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 20 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	632725	50.0000	
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	302938	52.2408	52.24
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	340322	52.7178	52.71
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	929735	50.0000	
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	874648	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1057437	51.3718	51.37
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	371276	43.0415	43.04
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	467407	50.0000	

01249955

Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081119.d

Page 1

Date : 11-AUG-2023 17:41

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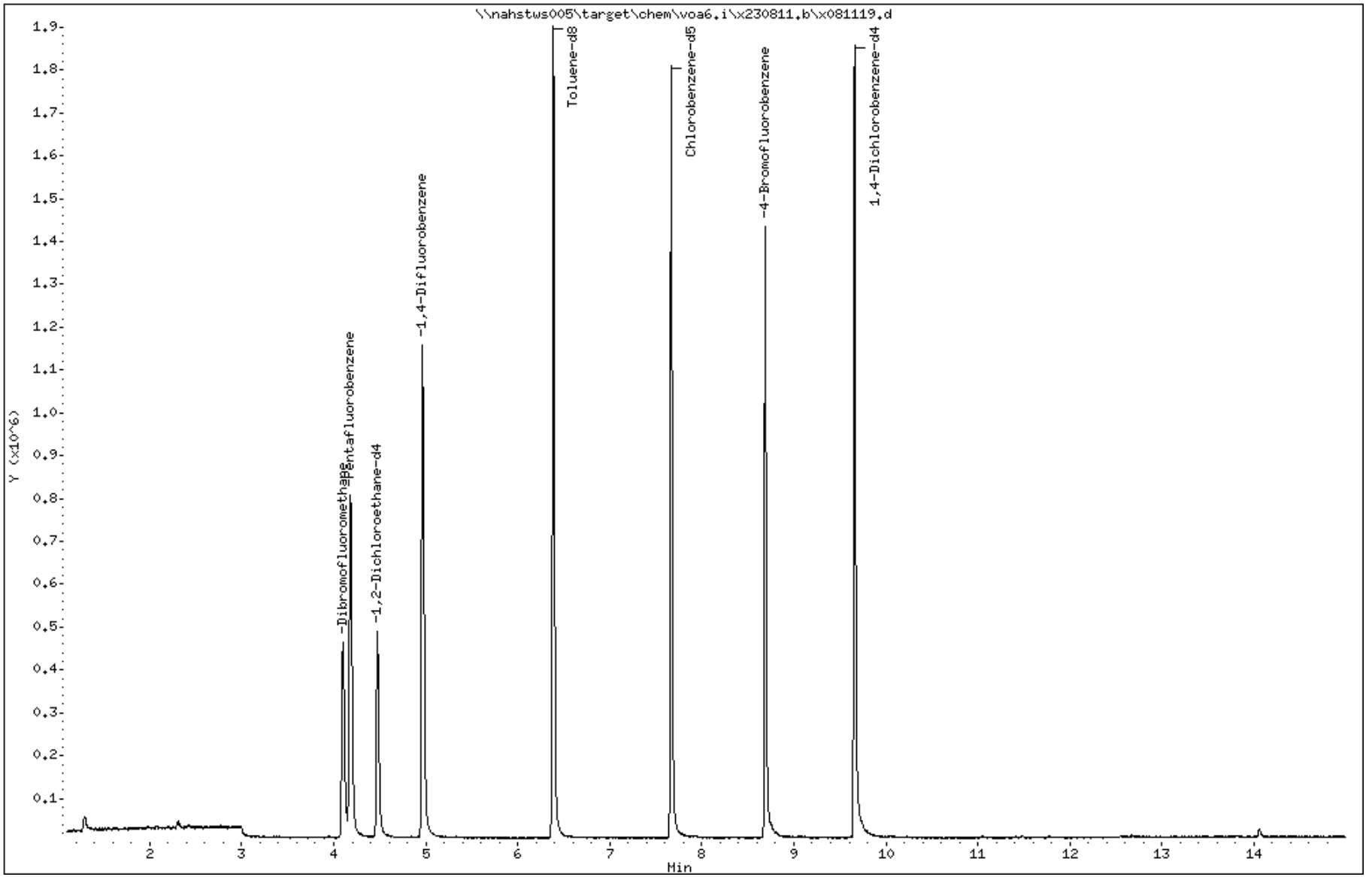
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 11-AUG-2023 17:41
InstruID : voa6.i
LabSampID : VBLKW-230811

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081121.D Page 1
Report Date: 12-Aug-2023 23:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081121.D
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Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 12-Aug-2023 23:09 pcabasca Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	636102	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.099	(0.981)	300276	51.4950	51.49
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	338630	52.1658	52.16
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	930870	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	864204	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1054153	51.8312	51.83
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	387754	45.4791	45.47
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	469754	50.0000	

01249958

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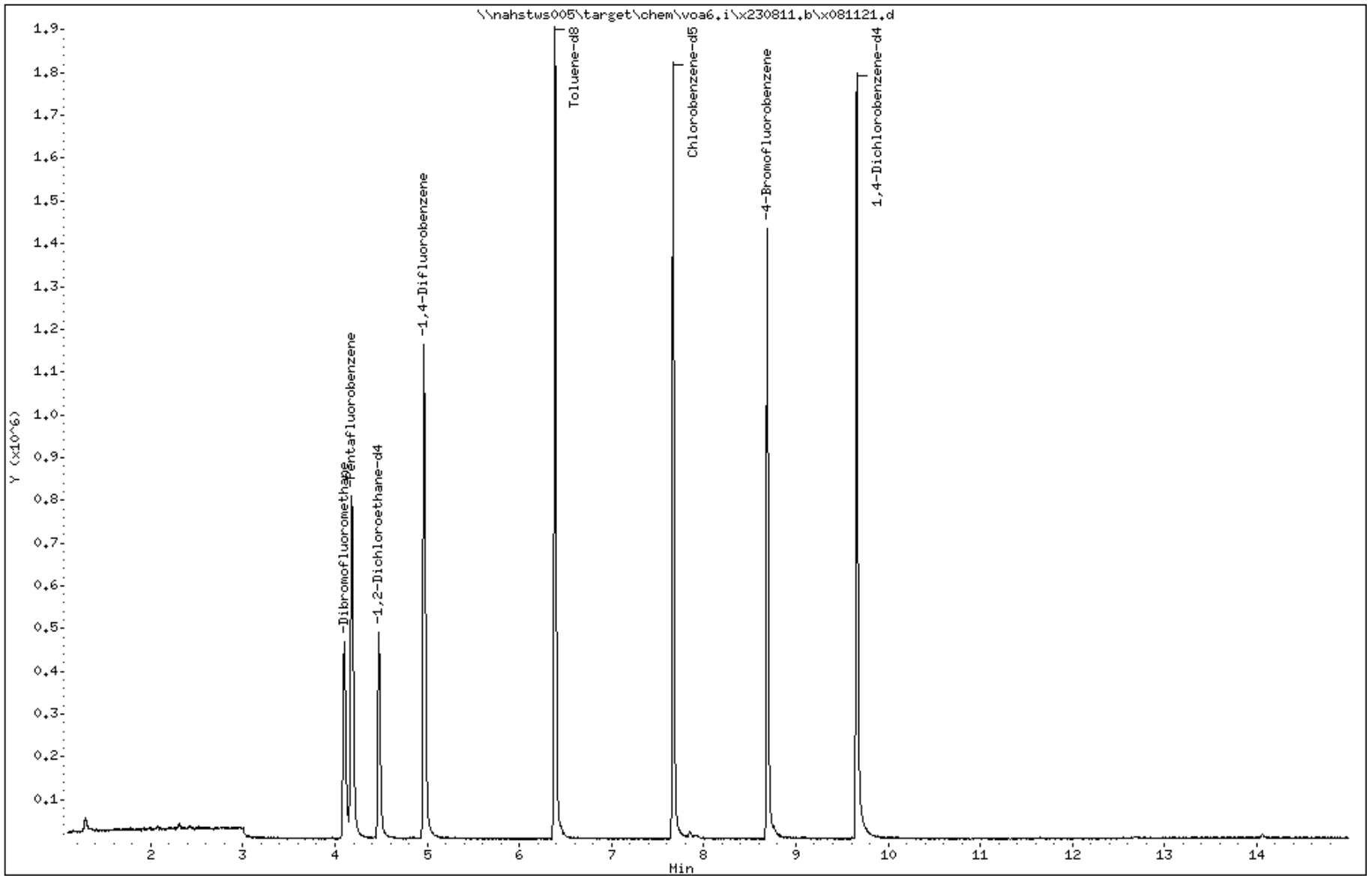
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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InstruID : voa6.i
LabSampID : HS23080558-02

NO MANUAL INTEGRATIONS

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Report Date: 12-Aug-2023 23:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081122.D
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Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 12-Aug-2023 23:09 pcabasca Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	625818	50.0000	
	27 cis-1,2-Dichloroethene	96	3.540	3.529	(0.847)	22833	3.38582	3.38(a)
$	30 Dibromofluoromethane	113	4.103	4.099	(0.981)	302989	52.8356	52.83
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	342063	53.5903	53.59
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	921494	50.0000	
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	841132	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1050563	53.0715	53.07
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	382136	46.0460	46.04
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	449564	50.0000	
M	94 1,2-Dichloroethylene (total)	96				22833	3.38582	3.38(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01249961

Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081122.d

Page 1

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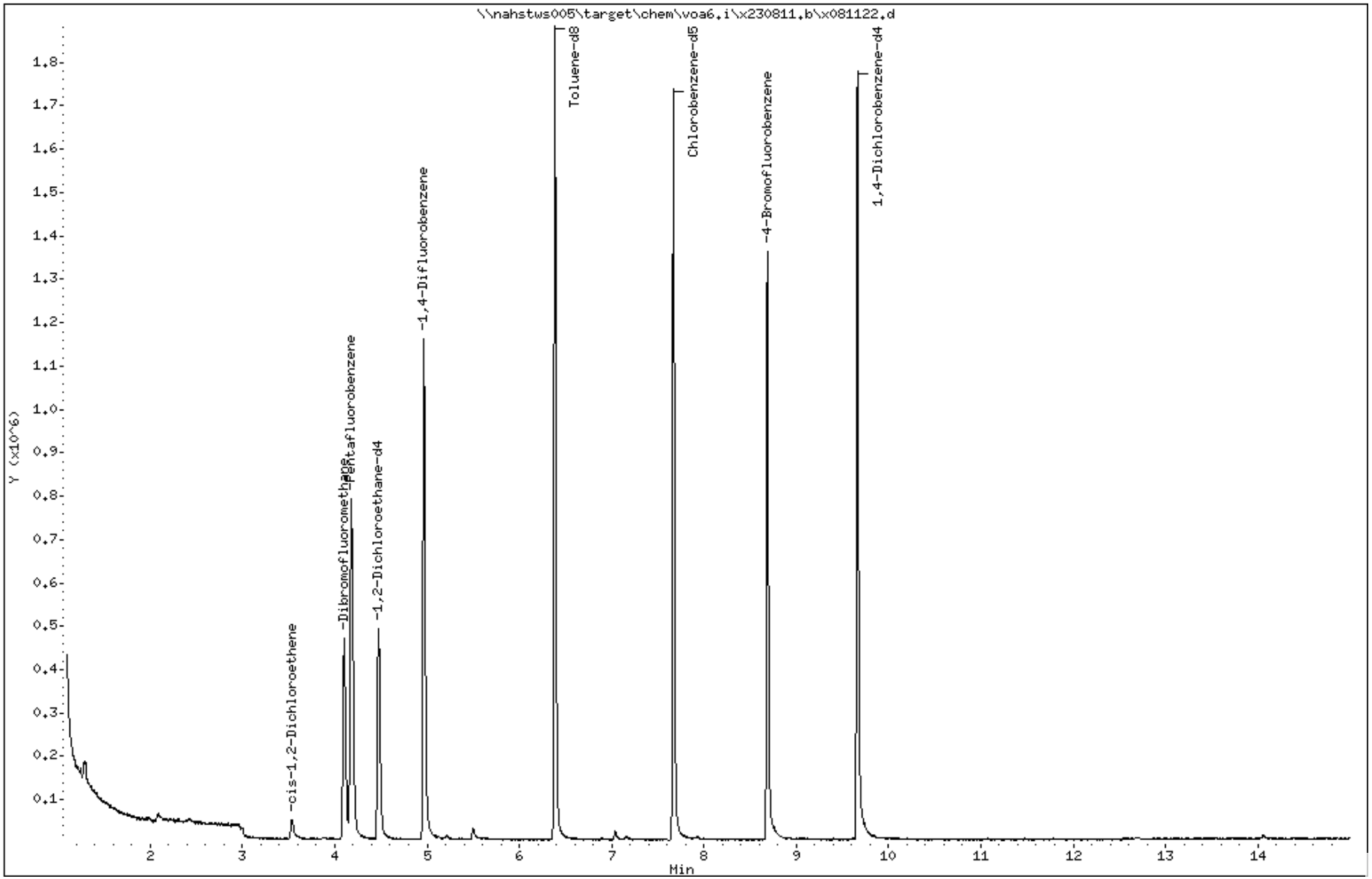
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081122.d Page 2

Date : 11-AUG-2023 18:42

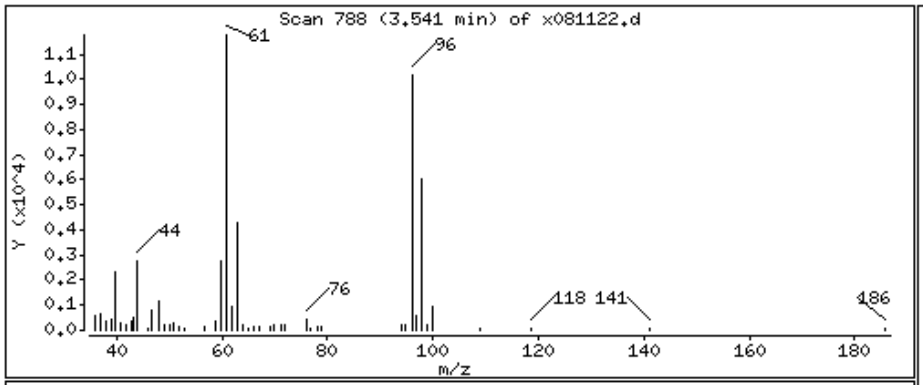
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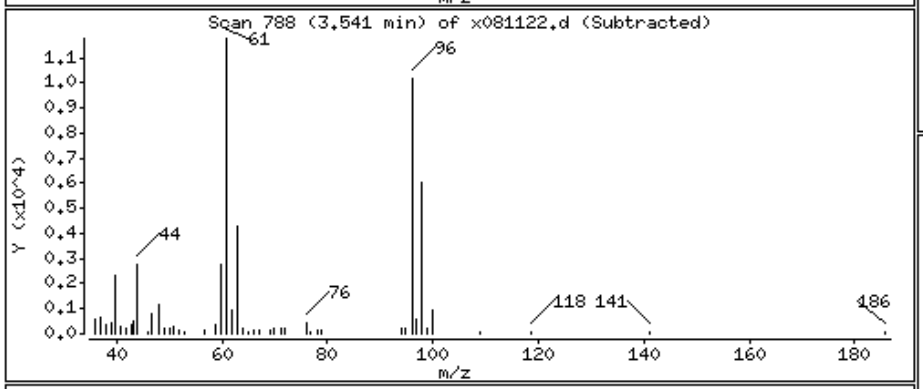
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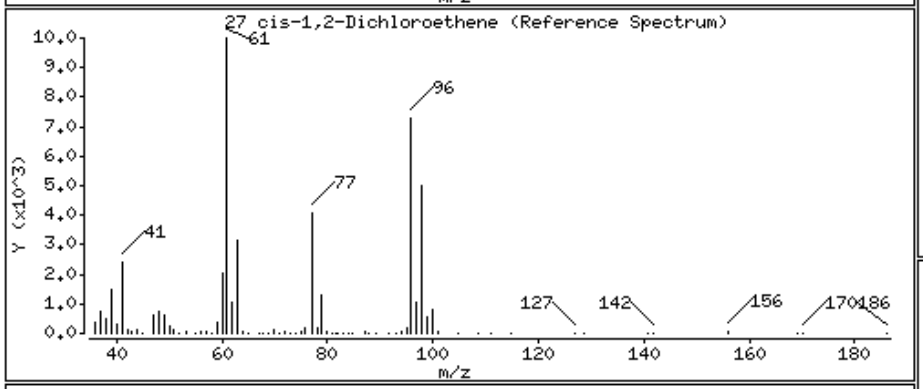
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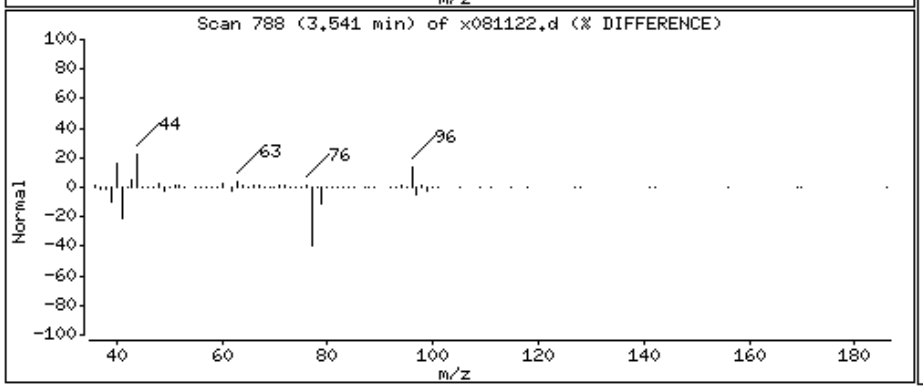
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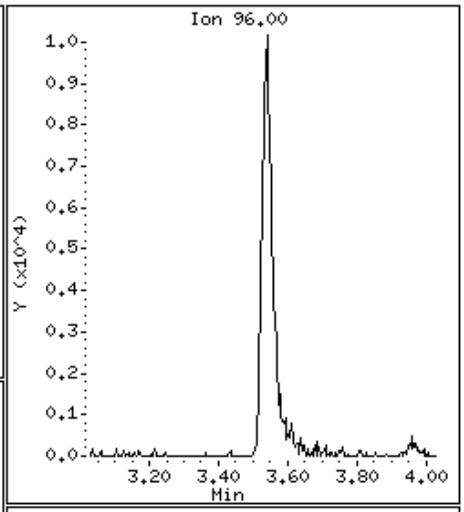
27 cis-1,2-Dichloroethene Concentration: 3.38 ug/l

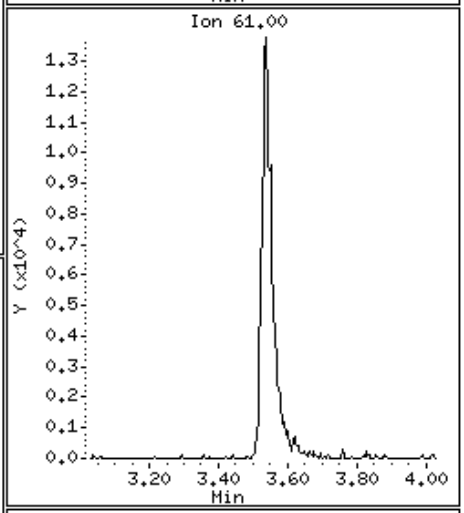


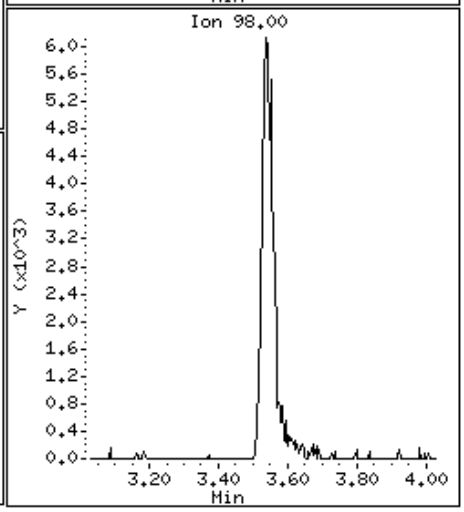












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NO MANUAL INTEGRATIONS

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Report Date: 12-Aug-2023 23:17

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Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 12-Aug-2023 23:09 pcabasca Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 30 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	621082	50.0000	
135 1,4-Dioxane	88	5.602	5.602	(1.340)	33005	418.079	418.07(a)
140 1,3-Butadiene	54	1.171	1.171	(0.280)	144054	22.5132	22.51
25 Methacrylonitrile	41	3.840	3.829	(0.918)	127513	20.5856	20.58
12 Isobutyl Alcohol	43	4.684	4.680	(1.120)	423320	434.821	434.82
13 Acetonitrile	39	2.202	2.202	(0.527)	216643	226.182	226.18
14 Allyl Chloride	41	2.202	2.202	(0.527)	398598	21.0664	21.06
4 Propionitrile	54	3.660	3.660	(0.875)	191476	221.377	221.37(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	47247	21.7959	21.79
194 Acetaldehyde	44	1.216	1.216	(0.291)	56829	86.0107	86.01
23 Chloroprene	53	1.775	1.775	(0.425)	59514	22.6511	22.65(M)
130 Ethyl Acetate	43	3.664	3.664	(0.876)	151741	21.2850	21.28
40 Methyl Methacrylate	41	5.610	5.606	(1.342)	128950	22.5656	22.56
49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	213923	24.9658	24.96
131 Methyl Acrylate	55	3.694	3.694	(0.883)	113162	18.4426	18.44
132 n-Butanol	56	5.268	5.265	(1.260)	65729	440.785	440.78(a)
136 n-Hexane	57	2.772	2.772	(0.663)	176527	31.8113	31.81
139 Diethyl ether	59	1.763	1.763	(0.422)	111110	20.2690	20.26
142 Tetrahydrofuran	42	3.855	3.851	(0.922)	48905	40.3654	40.36
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	192716	18.7186	18.71
156 Diisopropyl ether	45	3.004	3.008	(0.719)	450049	20.1195	20.11

162	Butyl acrylate	55	8.252	8.249 (1.076)	351719	25.1158	25.11
167	Ethanol	45	1.711	1.707 (0.409)	37088	492.003	492.00

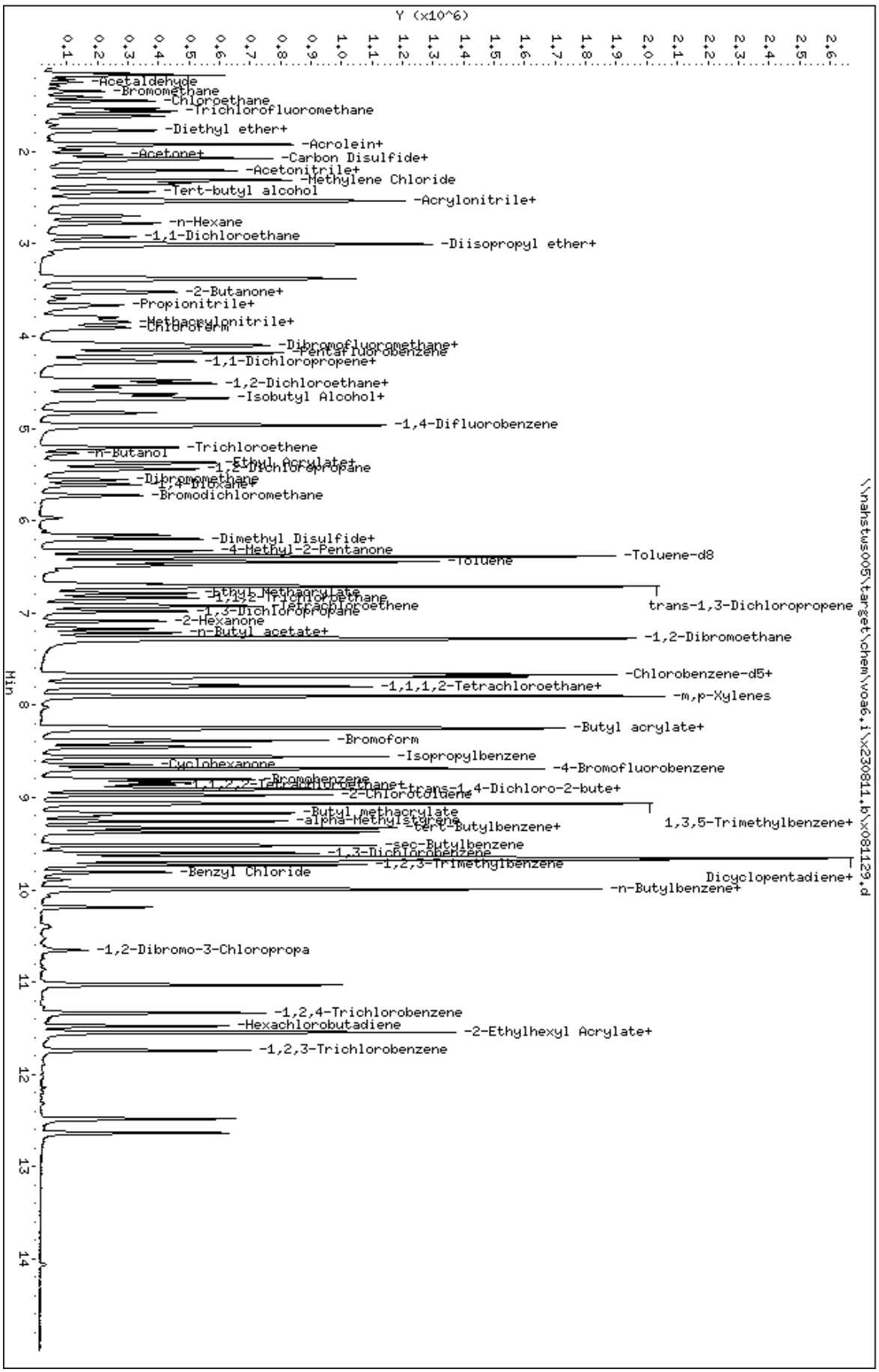
			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	200	Dimethyl Disulfide	94	6.198	6.194	(0.808)	247111	21.8304	21.83
	182	Epichlorohydrin	57	6.104	6.097	(1.230)	14522	25.3882	25.38
	164	Dicyclopentadiene	66	9.681	9.681	(1.002)	601489	23.5260	23.52
	166	1,2,3-Trimethylbenzene	105	9.726	9.729	(1.007)	482528	21.4772	21.47
	205	2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	228678	23.1266	23.12
	86	Benzyl Chloride	91	9.808	9.804	(1.279)	249991	20.3142	20.31
	134	Cyclohexanone	55	8.642	8.642	(0.895)	119824	388.739	388.73(a)
	133	Ethyl Acrylate	55	5.385	5.381	(1.288)	364089	24.7828	24.78
	163	Butyl methacrylate	41	9.167	9.167	(0.949)	224217	22.8538	22.85
	188	Isopropyl acetate	43	4.684	4.680	(0.943)	427591	22.6343	22.63
	189	n-Butyl acetate	43	7.214	7.210	(0.941)	260994	26.4659	26.46
	2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	130417	23.2668	23.26
	3	Chloromethane	50	1.085	1.085	(0.260)	126904	20.9977	20.99
	5	Vinyl Chloride	62	1.149	1.149	(0.275)	165556	22.2236	22.22
	6	Bromomethane	94	1.344	1.344	(0.321)	81897	20.4231	20.42
	7	Chloroethane	64	1.407	1.407	(0.337)	107664	22.0505	22.05
	8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	248266	23.4160	23.41
	9	Acrolein	56	1.865	1.868	(0.446)	8646	40.8900	40.89
	10	Acetone	43	1.977	1.977	(0.473)	96382	37.3803	37.38
	11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	131179	21.8738	21.87
	15	Iodomethane	142	2.030	2.033	(0.485)	247027	39.2656	39.26
	16	Acrylonitrile	53	2.539	2.539	(0.607)	124070	42.9457	42.94
	17	Methylene Chloride	84	2.307	2.307	(0.552)	147888	19.6641	19.66
	18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	431967	20.1931	20.19
	19	Carbon Disulfide	76	2.075	2.075	(0.496)	800918	45.0000	44.99
	20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	143164	20.5425	20.54
	21	Vinyl Acetate	43	3.004	3.000	(0.719)	825114	40.0249	40.02
	22	1,1-Dichloroethane	63	2.926	2.926	(0.700)	266878	20.3338	20.33
	24	2-Butanone	43	3.589	3.585	(0.858)	89637	38.9894	38.98
	26	2,2-Dichloropropane	77	3.507	3.510	(0.839)	181683	20.6100	20.61
	27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	142523	21.2954	21.29
	28	Chloroform	83	3.908	3.908	(0.935)	238462	20.7296	20.72
	29	Bromochloromethane	128	3.795	3.795	(0.908)	77482	20.3650	20.36
$	30	Dibromofluoromethane	113	4.099	4.099	(0.980)	297118	52.1969	52.19
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	210348	22.7756	22.77
	32	1,1-Dichloropropene	75	4.283	4.283	(0.863)	180110	24.4739	24.47
	33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	187988	21.1438	21.14
	34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	182901	23.5428	23.54
$	35	1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	336779	53.1560	53.15
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	935284	50.0000	
	37	Benzene	78	4.515	4.511	(0.909)	517147	22.4484	22.44
	38	Trichloroethene	130	5.205	5.205	(1.048)	149434	22.5705	22.57
	39	Bromodichloromethane	83	5.726	5.726	(1.153)	180244	21.0082	21.00
	42	1,2-Dichloropropane	63	5.437	5.433	(1.095)	137187	21.1196	21.11
	44	Dibromomethane	93	5.553	5.550	(1.119)	92724	20.8878	20.88
	45	4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	327377	53.0843	53.08
	46	cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	200292	20.4011	20.40
*	47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	859755	50.0000	
$	48	Toluene-d8	98	6.386	6.385	(0.833)	1058980	52.3379	52.33
	50	Toluene	91	6.446	6.445	(0.841)	535105	22.3366	22.33
	51	trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	166659	20.2261	20.22
	52	2-Hexanone	43	7.087	7.086	(0.924)	231359	55.8879	55.88

53	1,1,2-Trichloroethane	83	6.835	6.835 (0.891)	109415	22.9124	22.91
54	1,3-Dichloropropane	76	6.982	6.982 (0.911)	215538	22.0793	22.07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	151662	22.0057	22.00
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	121124	24.3255	24.32
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	131306	22.5086	22.50
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	136782	25.2767	25.27
	59 Chlorobenzene	112	7.694	7.690	(1.003)	360610	21.8458	21.84
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.769	(1.014)	141609	22.2086	22.20
	61 Ethylbenzene	106	7.795	7.795	(1.017)	193404	23.7246	23.72
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	486685	46.6699	46.66
	63 o-Xylene	106	8.237	8.237	(1.074)	230312	22.4118	22.41
	64 Styrene	104	8.256	8.256	(1.077)	389829	22.8116	22.81
	66 Bromoform	173	8.410	8.406	(1.097)	100669	21.6488	21.64
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	615316	24.0951	24.09
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.833	(0.915)	180005	22.8457	22.84
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	403082	47.5089	47.50
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	484037	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.860	(0.918)	132884	22.9333	22.93(M)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	712706	24.9028	24.90
	74 Bromobenzene	156	8.803	8.803	(0.912)	174979	22.6176	22.61
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	491842	23.5081	23.50
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	420898	22.9663	22.96
	77 4-Chlorotoluene	91	9.070	9.066	(0.939)	484080	22.9557	22.95
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	443043	24.7167	24.71
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	493136	22.8885	22.88
	81 sec-Butylbenzene	105	9.519	9.516	(0.986)	619960	25.2294	25.22
	82 p-Isopropyltoluene	119	9.647	9.647	(0.999)	542513	24.4175	24.41
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	312519	22.6816	22.68
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	330462	22.3946	22.39
	87 n-Butylbenzene	91	9.992	9.992	(1.035)	472358	22.9745	22.97
	88 1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	307270	22.0924	22.09
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.651	(1.103)	31064	23.3123	23.31
	90 1,2,4-Trichlorobenzene	180	11.338	11.334	(1.174)	196067	21.3030	21.30
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	94890	29.5112	29.51
	92 Naphthalene	128	11.544	11.540	(1.195)	511727	22.2756	22.27
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	186484	20.7922	20.79
M	94 1,2-Dichloroethylene (total)	96				285687	41.8378	41.83
M	95 Xylenes (total)	106				716997	69.0817	69.08
	141 Cyclohexane	56	4.121	4.121	(0.986)	205112	31.4029	31.40
	138 Freon TF	101	1.921	1.921	(0.459)	144189	30.2029	30.20
	147 Methylcyclohexane	55	5.385	5.381	(1.085)	364089	25.9128	25.91
	146 Methyl Acetate	43	2.236	2.236	(0.535)	113052	20.2565	20.25
	148 Tert-Butyl alcohol	59	2.434	2.438	(0.582)	388813	513.087	513.08
	149 Isopropyl Alcohol	45	2.101	2.097	(0.502)	206656	467.230	467.22

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Column phase: DB624

Instrument: voa6.i
Operator: PC
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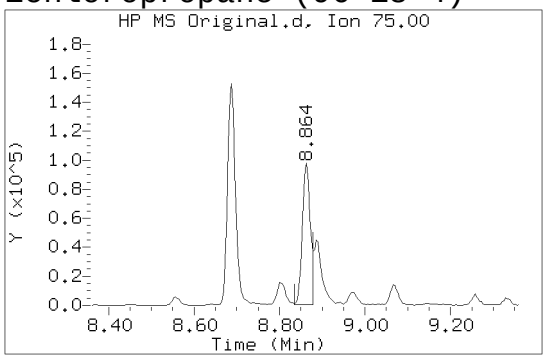
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1,2,3-Trichloropropane (96-18-4)

Reason Code:

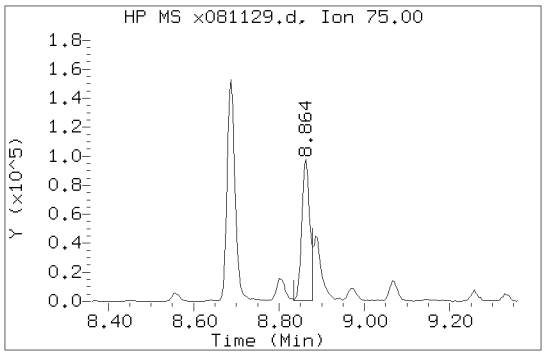
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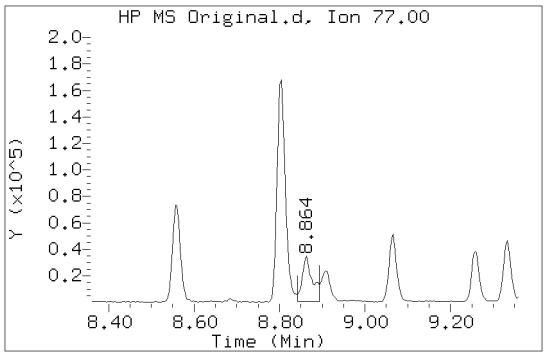
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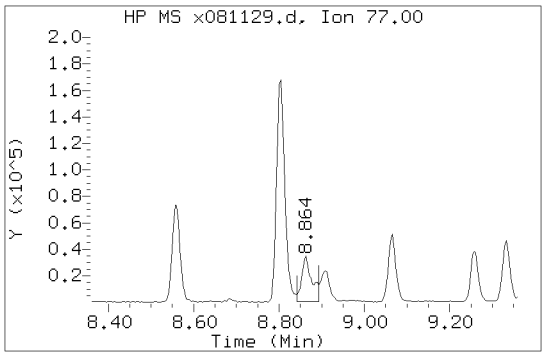
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AFTER

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12-Aug-2023
23:17

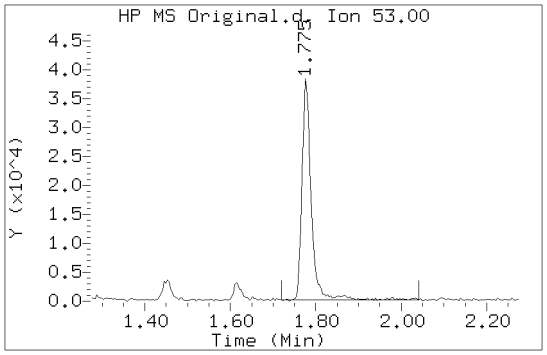


Chloroprene (126-99-8)

Reason Code:

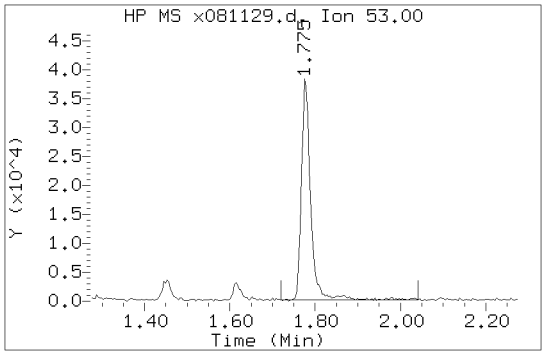
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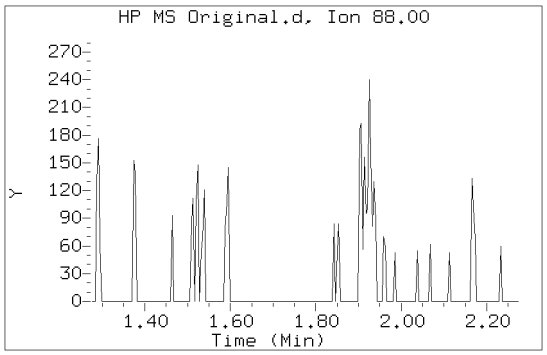
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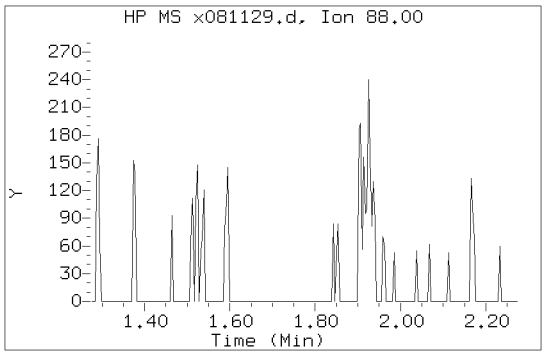
BEFORE

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AFTER

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12-Aug-2023
23:17



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Report Date: 12-Aug-2023 23:17

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081130.D
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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	610885	50.0000	
135	1,4-Dioxane	88	5.606	5.602	(1.341)	34941	449.991	449.99(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	140206	22.2775	22.27
25	Methacrylonitrile	41	3.833	3.829	(0.917)	135195	22.1901	22.19
12	Isobutyl Alcohol	43	4.680	4.680	(1.119)	429012	448.023	448.02
13	Acetonitrile	39	2.202	2.202	(0.527)	209968	222.872	222.87
14	Allyl Chloride	41	2.202	2.202	(0.527)	399069	21.4434	21.44
4	Propionitrile	54	3.664	3.660	(0.876)	185299	217.812	217.81(a)
72	trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	48881	22.8184	22.81
194	Acetaldehyde	44	1.216	1.216	(0.291)	117639	190.558	190.55
23	Chloroprene	53	1.775	1.775	(0.425)	57055	22.0776	22.07(M)
130	Ethyl Acetate	43	3.664	3.664	(0.876)	155525	22.1799	22.17
40	Methyl Methacrylate	41	5.610	5.606	(1.342)	123279	21.9333	21.93
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	209206	24.6975	24.69
131	Methyl Acrylate	55	3.698	3.694	(0.884)	135400	22.4352	22.43
132	n-Butanol	56	5.268	5.265	(1.260)	67602	457.812	457.81(a)
136	n-Hexane	57	2.772	2.772	(0.663)	170041	31.1922	31.19
139	Diethyl ether	59	1.763	1.763	(0.422)	109968	20.3955	20.39
142	Tetrahydrofuran	42	3.859	3.851	(0.923)	47357	39.7401	39.74
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	188110	18.6924	18.69
156	Diisopropyl ether	45	3.004	3.008	(0.719)	444720	20.2131	20.21

162 Butyl acrylate	55	8.249	8.249 (1.076)	351154	25.3743	25.37
167 Ethanol	45	1.707	1.707 (0.408)	36920	498.254	498.25

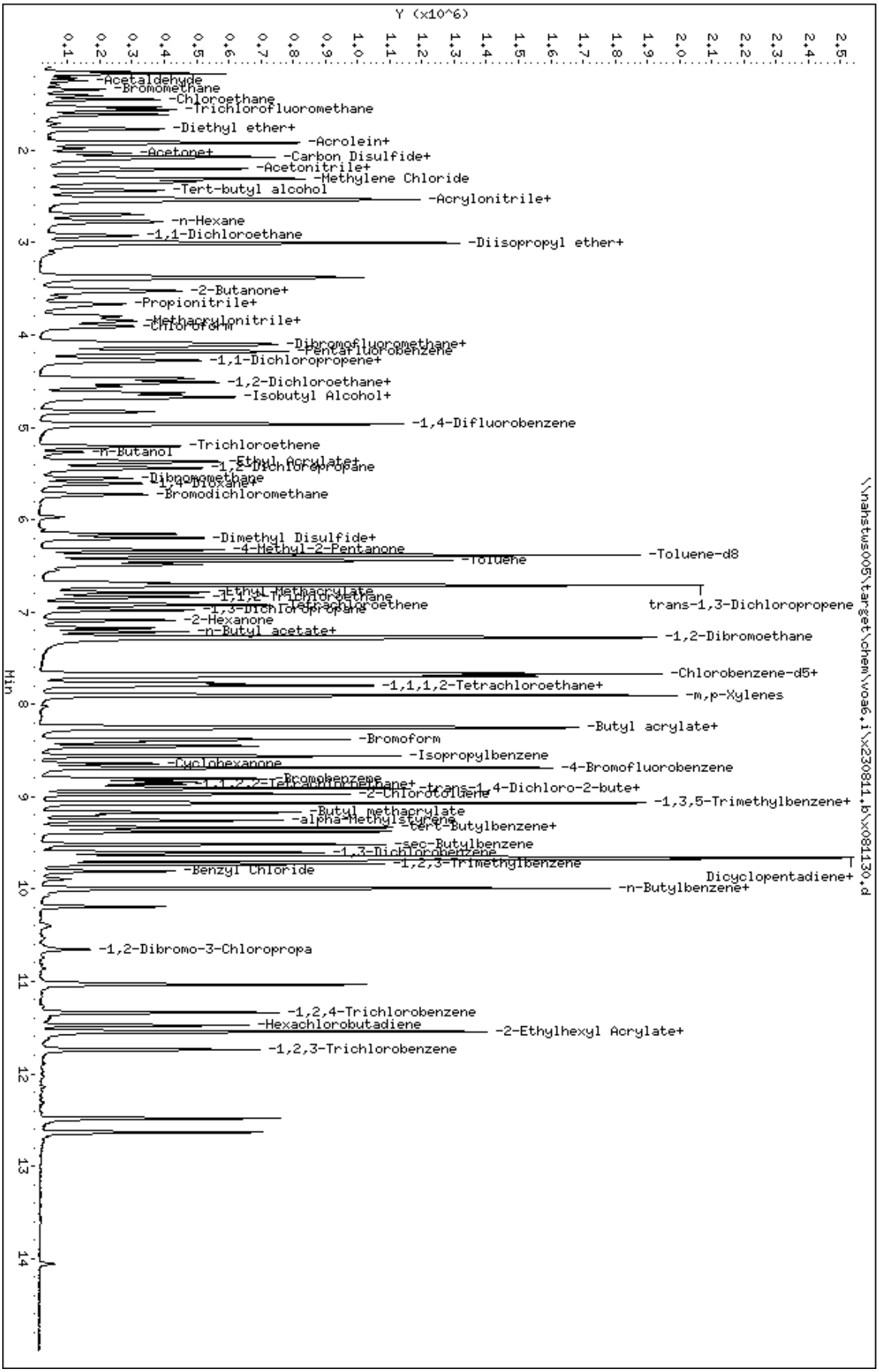
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	248926	22.2528	22.25
	182 Epichlorohydrin	57	6.101	6.097	(1.229)	13521	23.9114	23.91
	164 Dicyclopentadiene	66	9.681	9.681	(1.002)	579522	23.1910	23.19
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	470855	21.4407	21.44
	205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	230712	23.8701	23.87
	86 Benzyl Chloride	91	9.808	9.804	(1.279)	251473	20.6782	20.67
	134 Cyclohexanone	55	8.642	8.642	(0.894)	123491	409.869	409.86(a)
	133 Ethyl Acrylate	55	5.385	5.381	(1.288)	352655	24.4052	24.40
	163 Butyl methacrylate	41	9.167	9.167	(0.949)	226004	23.5669	23.56
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	429012	22.9720	22.97
	189 n-Butyl acetate	43	7.214	7.210	(0.941)	266208	27.3163	27.31
	2 Dichlorodifluoromethane	85	0.976	0.980	(0.234)	124506	22.6026	22.60
	3 Chloromethane	50	1.085	1.085	(0.260)	127484	21.4457	21.44
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	162802	22.2187	22.21
	6 Bromomethane	94	1.344	1.344	(0.321)	81492	20.6613	20.66
	7 Chloroethane	64	1.407	1.407	(0.337)	101447	21.1240	21.12
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	243394	23.3397	23.33
	9 Acrolein	56	1.868	1.868	(0.447)	11541	56.4726	56.47
	10 Acetone	43	1.977	1.977	(0.473)	97057	38.3799	38.37
	11 1,1-Dichloroethene	96	1.917	1.921	(0.459)	127883	21.6801	21.68
	15 Iodomethane	142	2.030	2.033	(0.485)	273088	43.3937	43.39
	16 Acrylonitrile	53	2.539	2.539	(0.607)	122508	43.1129	43.11
	17 Methylene Chloride	84	2.307	2.307	(0.552)	145674	19.6930	19.69
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	440959	20.9576	20.95
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	779169	44.5088	44.50
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	141005	20.5704	20.57
	21 Vinyl Acetate	43	3.004	3.000	(0.719)	806227	39.7615	39.76
	22 1,1-Dichloroethane	63	2.926	2.926	(0.700)	260379	20.1697	20.16
	24 2-Butanone	43	3.593	3.585	(0.859)	98034	43.3536	43.35
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	174682	20.1462	20.14
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	138819	21.0881	21.08
	28 Chloroform	83	3.908	3.908	(0.935)	232800	20.5752	20.57
	29 Bromochloromethane	128	3.795	3.795	(0.908)	77036	20.5858	20.58
$	30 Dibromofluoromethane	113	4.103	4.099	(0.981)	295256	52.7443	52.74
	31 1,1,1-Trichloroethane	97	4.084	4.080	(0.977)	204139	22.4723	22.47
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	169533	23.3029	23.30
	33 1,2-Dichloroethane	62	4.560	4.556	(0.918)	191463	21.7835	21.78
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	175925	22.9065	22.90
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	334534	53.6941	53.69
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	924598	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	499965	21.9534	21.95
	38 Trichloroethene	130	5.205	5.205	(1.048)	143910	21.9873	21.98
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	172641	20.3546	20.35
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	137484	21.4100	21.40
	44 Dibromomethane	93	5.553	5.550	(1.119)	91881	20.9371	20.93
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	329621	54.0851	54.08
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	200172	20.6246	20.62
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	849630	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	1046366	52.3308	52.33
	50 Toluene	91	6.446	6.445	(0.841)	529663	22.3729	22.37
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	165471	20.3140	20.31
	52 2-Hexanone	43	7.087	7.086	(0.924)	233285	57.0247	57.02

53 1,1,2-Trichloroethane	83	6.839	6.835 (0.892)	105398	22.3342	22.33
54 1,3-Dichloropropane	76	6.982	6.982 (0.911)	213859	22.1684	22.16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	147999	21.7301	21.73
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	116850	23.7468	23.74
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	132669	23.0133	23.01
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	132585	24.7843	24.78
	59 Chlorobenzene	112	7.690	7.690	(1.003)	360298	22.0870	22.08
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.769	(1.014)	137728	21.8573	21.85
	61 Ethylbenzene	106	7.799	7.795	(1.017)	188476	23.3956	23.39
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	476347	46.2229	46.22
	63 o-Xylene	106	8.237	8.237	(1.074)	224988	22.1546	22.15
	64 Styrene	104	8.256	8.256	(1.077)	387929	22.9710	22.97
	66 Bromoform	173	8.410	8.406	(1.097)	102421	22.2880	22.28
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	599992	23.7750	23.77
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.833	(0.915)	175486	22.7855	22.78
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	389354	46.4441	46.44
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	473132	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.860	(0.917)	132910	23.4665	23.46(M)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	694949	24.8421	24.84
	74 Bromobenzene	156	8.803	8.803	(0.911)	170425	22.5367	22.53
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	478278	23.3866	23.38
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	419160	23.3986	23.39
	77 4-Chlorotoluene	91	9.070	9.066	(0.939)	482301	23.3985	23.39
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	438223	25.0113	25.01
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	486299	23.0914	23.09
	81 sec-Butylbenzene	105	9.519	9.516	(0.985)	610848	25.4315	25.43
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	523687	24.1134	24.11
	83 1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	302752	22.4791	22.47
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	321339	22.2783	22.27
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	459641	22.8803	22.88
	88 1,2-Dichlorobenzene	146	9.992	9.988	(1.034)	300267	22.0865	22.08
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.651	(1.103)	30137	23.1379	23.13
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	195595	21.7415	21.74
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	96233	30.5519	30.55
	92 Naphthalene	128	11.540	11.540	(1.194)	517756	23.0575	23.05
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	187590	21.3975	21.39
M	94 1,2-Dichloroethylene (total)	96				279824	41.6586	41.65
M	95 Xylenes (total)	106				701335	68.3775	68.37
	141 Cyclohexane	56	4.118	4.121	(0.985)	212095	32.9027	32.90
	138 Freon TF	101	1.917	1.921	(0.459)	138059	29.4400	29.43
	147 Methylcyclohexane	55	5.385	5.381	(1.085)	352655	25.3891	25.38
	146 Methyl Acetate	43	2.236	2.236	(0.535)	116396	21.2038	21.20
	148 Tert-Butyl alcohol	59	2.434	2.438	(0.582)	399316	536.315	536.31
	149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	211775	487.336	487.33

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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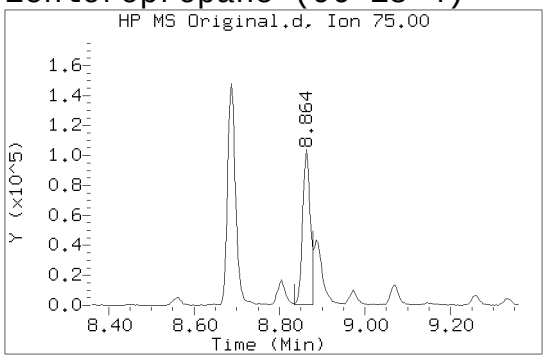
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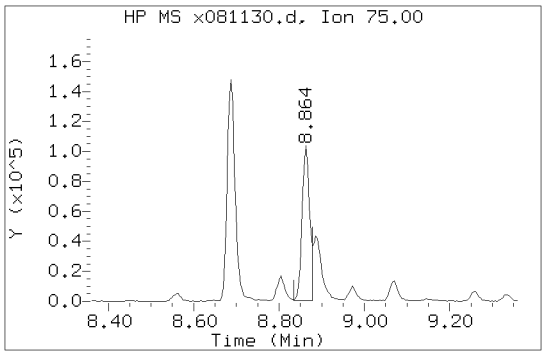
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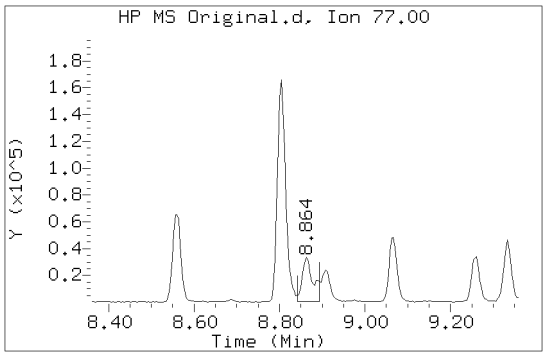
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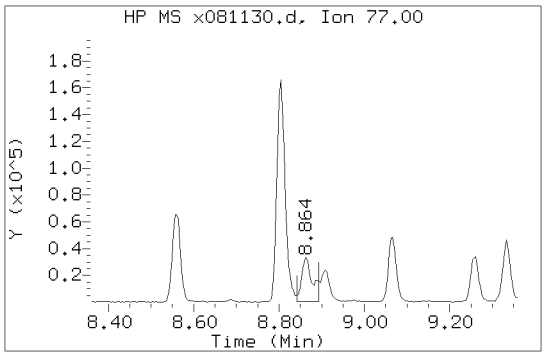
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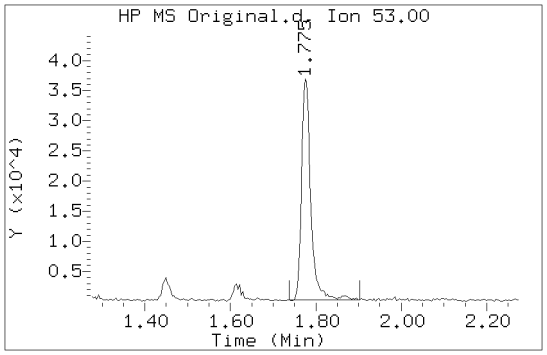
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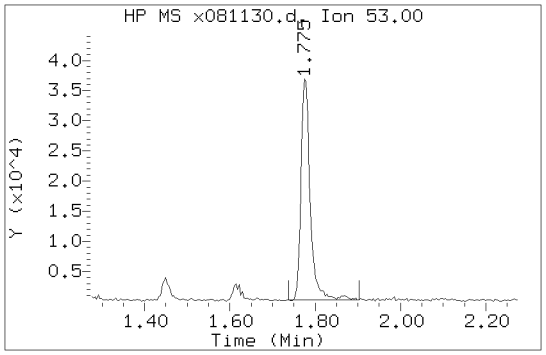
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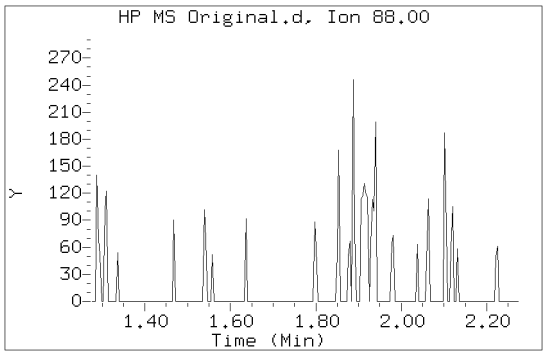
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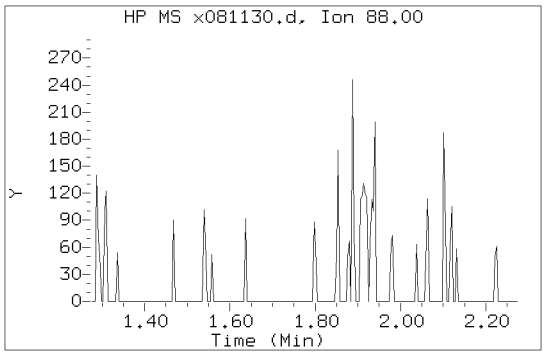
AFTER
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12-Aug-2023
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BEFORE
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12-Aug-2023
23:16



AFTER
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HEIGHT
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12-Aug-2023
23:16



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081131.D Page 1
Report Date: 12-Aug-2023 23:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081131.D
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Misc Info : V6;WATER;0;1;
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Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
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Dil Factor: 1.00000
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Target Version: 4.14
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
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Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	623159	50.0000	
135	1,4-Dioxane	88	5.602	5.602	(1.340)	75549	1000.00	953.80
140	1,3-Butadiene	54	1.171	1.171	(0.280)	296770	50.0000	46.22
25	Methacrylonitrile	41	3.829	3.829	(0.916)	301347	50.0000	48.48
12	Isobutyl Alcohol	43	4.680	4.680	(1.119)	943890	1000.00	966.30
13	Acetonitrile	39	2.202	2.202	(0.527)	423286	500.000	440.45
14	Allyl Chloride	41	2.202	2.202	(0.527)	834177	50.0000	43.94
4	Propionitrile	54	3.660	3.660	(0.875)	431746	500.000	497.50
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	109312	50.0000	45.34
194	Acetaldehyde	44	1.216	1.216	(0.291)	110142	200.000	174.18
23	Chloroprene	53	1.775	1.775	(0.424)	122547	50.0000	46.48(M)
130	Ethyl Acetate	43	3.664	3.664	(0.876)	352593	50.0000	49.29
40	Methyl Methacrylate	41	5.609	5.609	(1.342)	275644	50.0000	48.07
49	Ethyl Methacrylate	69	6.783	6.783	(1.366)	440053	50.0000	48.12
131	Methyl Acrylate	55	3.698	3.698	(0.884)	296666	50.0000	48.18
132	n-Butanol	56	5.261	5.261	(1.258)	147058	1000.00	899.37
136	n-Hexane	57	2.772	2.772	(0.663)	335339	50.0000	56.12
139	Diethyl ether	59	1.763	1.763	(0.422)	251542	50.0000	45.73
142	Tetrahydrofuran	42	3.848	3.848	(0.920)	109968	100.000	90.46
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	583035	50.0000	50.16

156	Diisopropyl ether	45	3.004	3.004 (0.719)	1044938	50.0000	46.55
162	Butyl acrylate	55	8.248	8.248 (1.076)	761362	50.0000	48.89

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Report Date: 12-Aug-2023 23:08

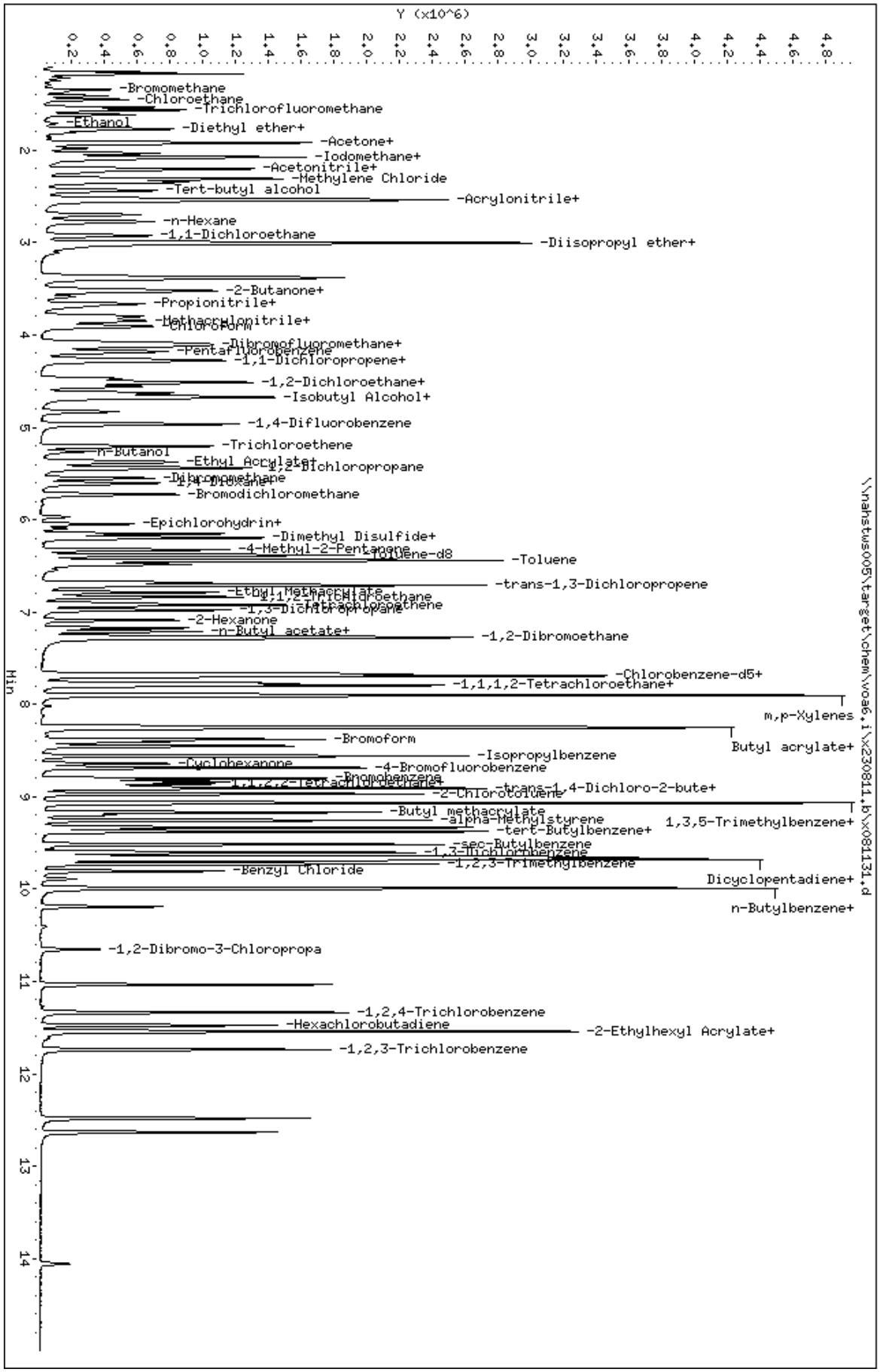
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	167 Ethanol	45	1.711	1.711	(0.409)	77860	1000.00	1056.98
	200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	628819	50.0000	49.95
	182 Epichlorohydrin	57	6.097	6.097	(1.228)	111840	200.000	183.21
	164 Dicyclopentadiene	66	9.680	9.680	(1.002)	1247229	50.0000	42.96
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1107226	50.0000	43.65
	205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	512942	50.0000	45.95
	86 Benzyl Chloride	91	9.804	9.804	(1.279)	641213	50.0000	46.85
	134 Cyclohexanone	55	8.642	8.642	(0.895)	256459	1000.00	737.09
	202 Isobutylene	41	1.246	1.246	(0.298)	34607	50.0000	42.32(M)
	133 Ethyl Acrylate	55	5.385	5.385	(1.288)	642051	50.0000	43.55
	163 Butyl methacrylate	41	9.167	9.167	(0.949)	540745	50.0000	48.82
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	948247	50.0000	47.03
	189 n-Butyl acetate	43	7.210	7.210	(0.940)	566581	50.0000	51.66
	2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	267103	50.0000	46.79
	3 Chloromethane	50	1.085	1.085	(0.260)	291830	50.0000	48.12
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	356564	50.0000	47.70
	6 Bromomethane	94	1.343	1.343	(0.321)	189522	50.0000	47.10
	7 Chloroethane	64	1.407	1.407	(0.337)	233545	50.0000	47.67
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	499909	50.0000	46.99
	9 Acrolein	56	1.868	1.868	(0.447)	23876	100.000	117.35(M)
	10 Acetone	43	1.977	1.977	(0.473)	223107	100.000	92.24
	11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	277463	50.0000	46.11
	15 Iodomethane	142	2.033	2.033	(0.486)	754180	100.000	105.90
	16 Acrylonitrile	53	2.539	2.539	(0.607)	267871	100.000	92.41
	17 Methylene Chloride	84	2.311	2.311	(0.553)	345019	50.0000	45.72
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	986190	50.0000	45.94
	19 Carbon Disulfide	76	2.074	2.074	(0.496)	1677835	100.000	93.95
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	322829	50.0000	46.16
	21 Vinyl Acetate	43	3.000	3.000	(0.718)	2048296	100.000	99.02
	22 1,1-Dichloroethane	63	2.925	2.925	(0.700)	608458	50.0000	46.20
	24 2-Butanone	43	3.589	3.589	(0.858)	227785	100.000	98.74
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	397800	50.0000	44.99
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	327109	50.0000	48.71
	28 Chloroform	83	3.908	3.908	(0.935)	556831	50.0000	48.24
	29 Bromochloromethane	128	3.795	3.795	(0.908)	184842	50.0000	48.42
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	304052	50.0000	53.25
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	456560	50.0000	49.26
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	371747	50.0000	47.33
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	448751	50.0000	47.29
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	386321	50.0000	46.59
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	329428	50.0000	51.79
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	998120	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	1163555	50.0000	47.32
	38 Trichloroethene	130	5.205	5.205	(1.048)	333465	50.0000	47.19
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	431194	50.0000	47.09
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	219607	100.000	93.75
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	328558	50.0000	47.39
	44 Dibromomethane	93	5.553	5.553	(1.119)	219547	50.0000	46.34
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	659208	100.000	96.12
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	501458	50.0000	47.86
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	956034	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1086020	50.0000	48.26

50	Toluene	91	6.445	6.445 (0.841)	1266331	50.0000	47.53
51	trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)	425608	50.0000	48.40

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	52 2-Hexanone	43	7.086	7.086	(0.924)	452947	100.000	98.39
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	256822	50.0000	48.36
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	513647	50.0000	47.31
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	377991	50.0000	49.32
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	267641	50.0000	48.33
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	314794	50.0000	48.52
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	274456	50.0000	47.52
	59 Chlorobenzene	112	7.690	7.690	(1.003)	869188	50.0000	47.35
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	350445	50.0000	49.42
	61 Ethylbenzene	106	7.795	7.795	(1.017)	431578	50.0000	47.60
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	1124222	100.000	96.94
	63 o-Xylene	106	8.237	8.237	(1.074)	543626	50.0000	47.57
	64 Styrene	104	8.256	8.256	(1.077)	956743	50.0000	50.34
	66 Bromoform	173	8.406	8.406	(1.096)	262609	50.0000	50.78
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1363542	50.0000	48.01
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	425289	50.0000	47.81
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	473382	50.0000	50.16
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	546373	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	323154	50.0000	49.40(M)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1626429	50.0000	50.34
	74 Bromobenzene	156	8.803	8.803	(0.912)	428135	50.0000	49.02
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	1156163	50.0000	48.95
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	992457	50.0000	47.97
	77 4-Chlorotoluene	91	9.066	9.066	(0.939)	1164875	50.0000	48.93
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	999168	50.0000	49.38
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1174981	50.0000	48.31
	81 sec-Butylbenzene	105	9.519	9.519	(0.986)	1394937	50.0000	50.29
	82 p-Isopropyltoluene	119	9.647	9.647	(0.999)	1225285	50.0000	48.85
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	760007	50.0000	48.86
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	806451	50.0000	48.41
	87 n-Butylbenzene	91	9.992	9.992	(1.035)	1097976	50.0000	45.17
	88 1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	753970	50.0000	48.02
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	73532	50.0000	48.88
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	510429	50.0000	49.13
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	222432	50.0000	56.55
	92 Naphthalene	128	11.540	11.540	(1.195)	1247549	50.0000	48.11
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	477558	50.0000	47.17
M	94 1,2-Dichloroethylene (total)	96				649938	100.000	(a)
	141 Cyclohexane	56	4.121	4.121	(0.986)	394069	50.0000	56.06
	138 Freon TF	101	1.921	1.921	(0.459)	274424	50.0000	54.06
	147 Methylcyclohexane	55	5.385	5.385	(1.085)	642051	50.0000	42.81
	146 Methyl Acetate	43	2.236	2.236	(0.535)	264610	50.0000	47.25
	148 Tert-Butyl alcohol	59	2.438	2.438	(0.583)	749147	1000.00	997.22
	149 Isopropyl Alcohol	45	2.101	2.101	(0.502)	439605	1000.00	1005.03

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\voa6.i\x230811.b\x081131.d
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Column phase: DB624

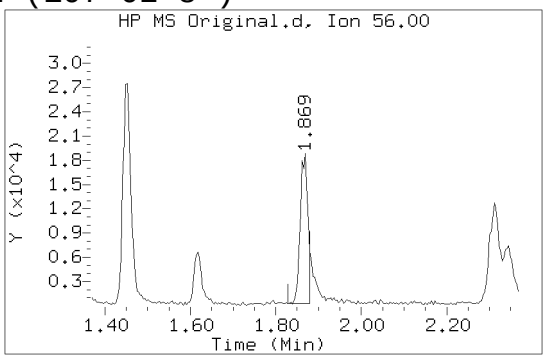
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Operator: PC
Column diameter: 0.18

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LabSampID : CCV-END

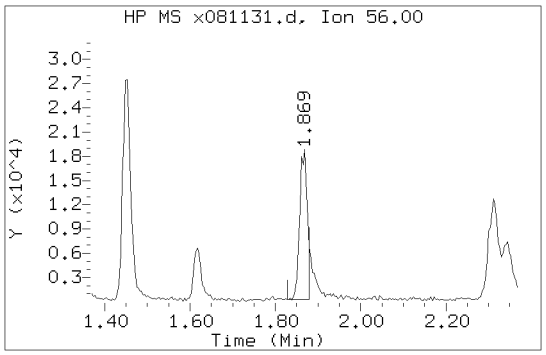
Acrolein (107-02-8)

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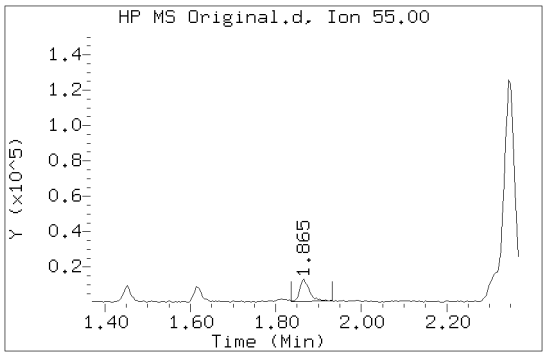
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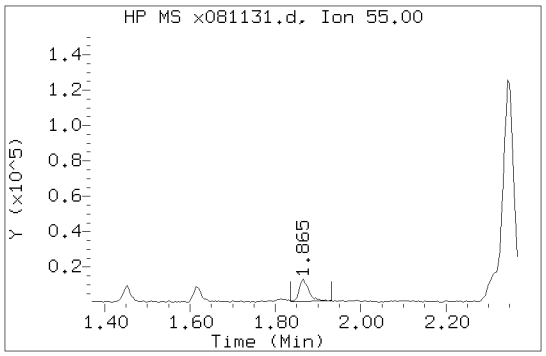
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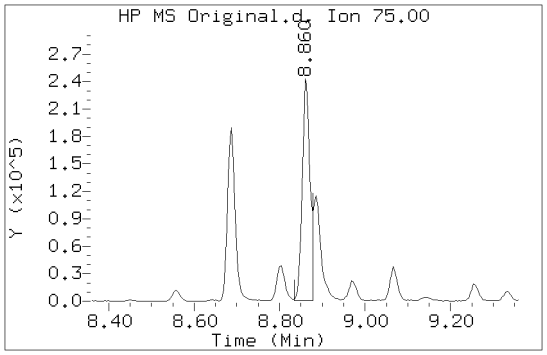
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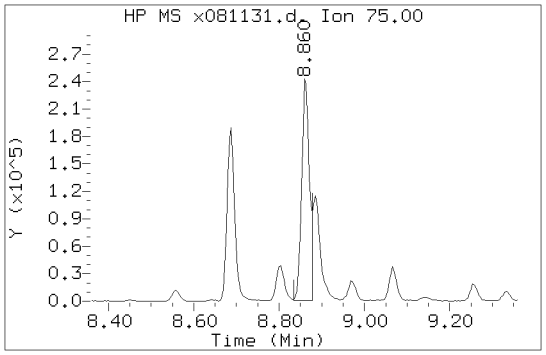
1,2,3-Trichloropropane (96-18-4)

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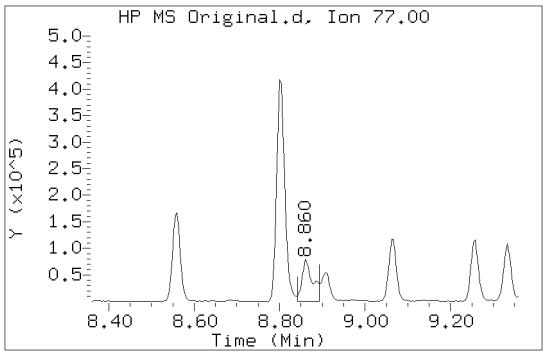
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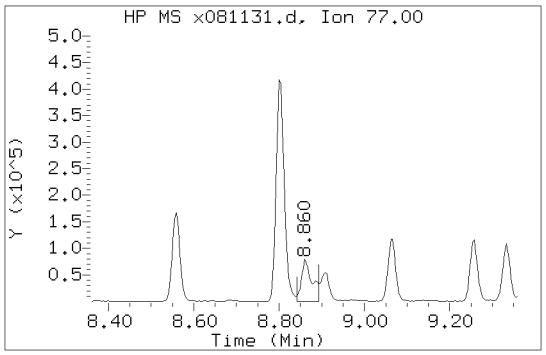
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AFTER
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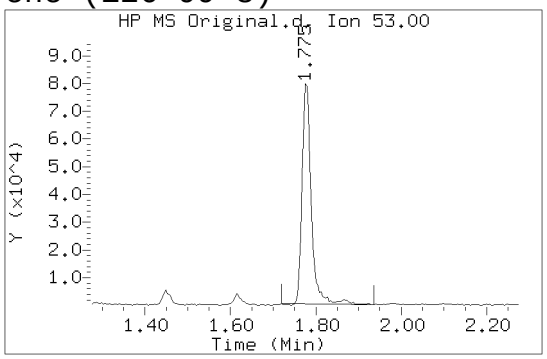


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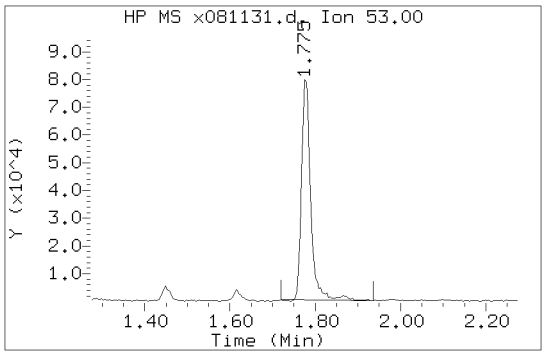
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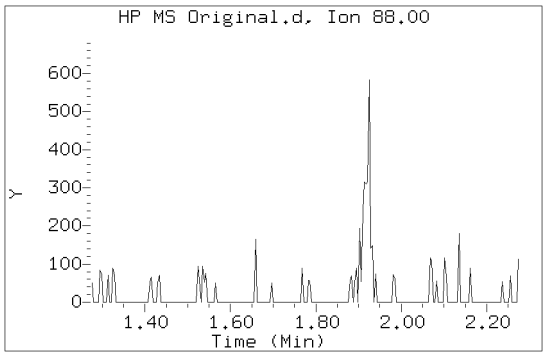
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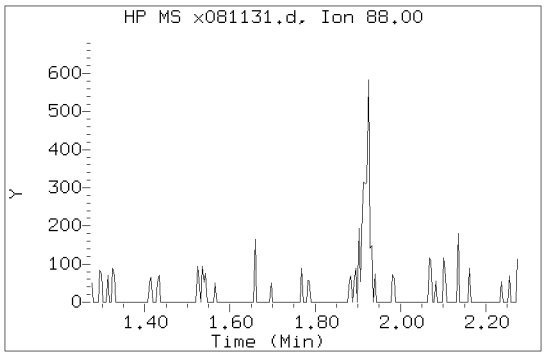
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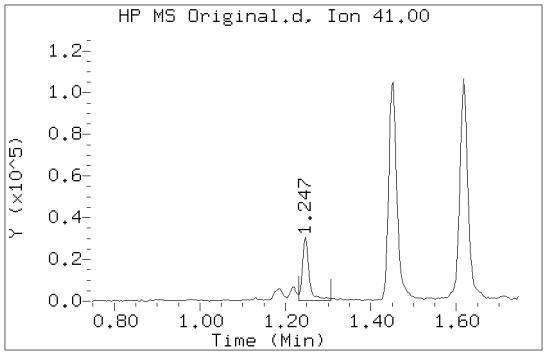
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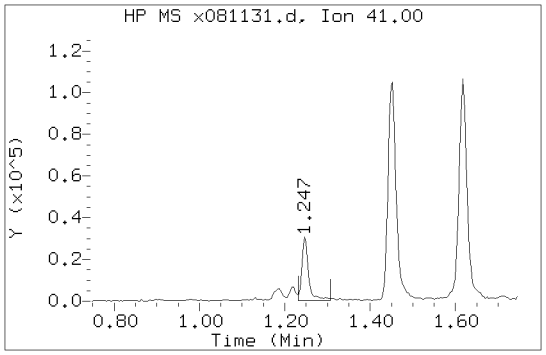
Isobutylene (115-11-7)

Reason Code:

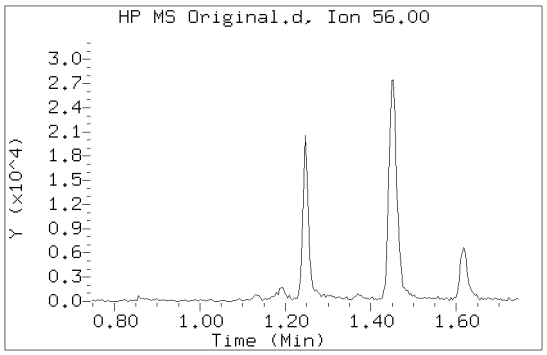
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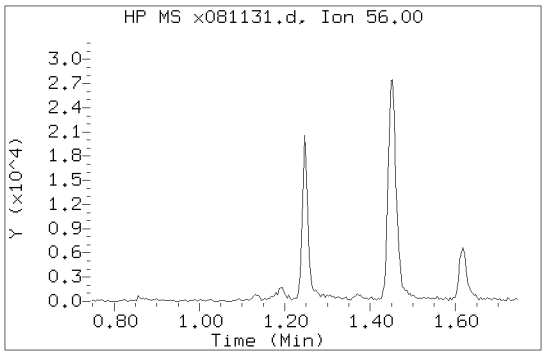
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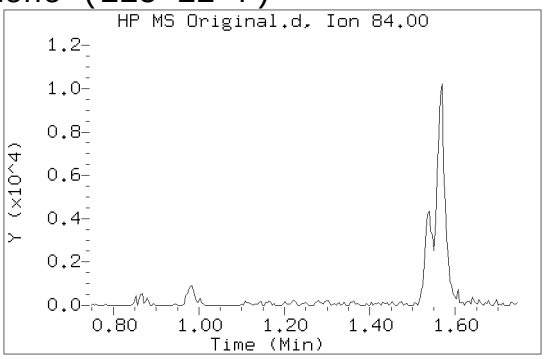
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LabSampID : CCV-END

Isobutylene (115-11-7)

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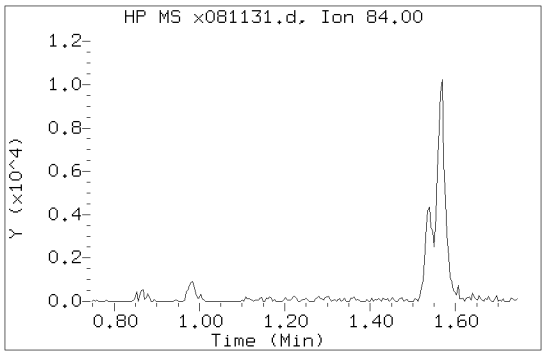
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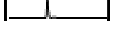
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ALS WO# HS23080558

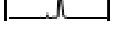
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Last Update Operator: alshs.nouser

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	STD2		Calibratio	GA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	GA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	GA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	GA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	GA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	GA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
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	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
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	HS23080210-02		Unknown	RA4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
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	HS23080732-01		Unknown	RB7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

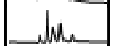
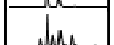
Sequence: 081423
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	HS23080732-01DF20		Unknown	RB8	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080732-02		Unknown	RC1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080732-02DF20		Unknown	RC2	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080732-03		Unknown	RC3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080732-03DF20		Unknown	RC4	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080732-04		Unknown	RC5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080732-04DF20		Unknown	RC6	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080558-01DF2		Unknown	RC7	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080558-01DF50		Unknown	RC8	50.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080210-01DF2		Unknown	RA1	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080211-06DF5		Unknown	RD1	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080732-02DF100		Unknown	RD2	100.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080732-03DF40		Unknown	RD3	40.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080732-04DF100		Unknown	RD4	100.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	300-W-DUE	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080060-01DF500		Unknown	RD5	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080060-01MSDF50		Unknown	RD6	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080060-01MSDDF		Unknown	RD7	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080060-02DF500		Unknown	RD8	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080060-03DF500		Unknown	RE1	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080060-04DF500		Unknown	RE2	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080060-05DF500		Unknown	RE3	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080060-06DF50		Unknown	RE4	50.00		Anions Program ISO37mM 150mm short 0.4 Constant current

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CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	HS23080060-07DF500		Unknown	RE5	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080060-07MSDF5		Unknown	RE6	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080060-07MSDDF		Unknown	RE7	500.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080780-01DF10		Unknown	RE8	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080780-02DF10		Unknown	GA1	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080780-03DF10		Unknown	GA2	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080780-04DF10		Unknown	GA3	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080780-05DF5		Unknown	GA4	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080151-01DF250		Unknown	GA5	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080151-02DF250		Unknown	GA6	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080151-03DF250		Unknown	GA7	250.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080397-01DF20	300-W-DUE	Unknown	GA8	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK		Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS	300-W-SH	Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-01		Unknown	GB1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-01MS		Unknown	GB2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-01MSD		Unknown	GB3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-02		Unknown	GB4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-03		Unknown	GB5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-04		Unknown	GB6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-05		Unknown	GB7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-06		Unknown	GB8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-07		Unknown	GC1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-08		Unknown	GC2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-09		Unknown	GC3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-10		Unknown	GC4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 081423
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	HS23080809-12		Unknown	GC5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-13		Unknown	GC6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23070443-01		Unknown	GD3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-11		Unknown	GC7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-11MS		Unknown	GC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080809-11MSD		Unknown	GD1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080817-01	300-W-SH	Unknown	GD2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 081423
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	8/8/2023 9:18:53 AM -05:00
Anions Processing Method ISO		STD2	5.0	Finished	8/8/2023 9:24:41 AM -05:00
Anions Processing Method ISO		STD3	5.0	Finished	8/8/2023 9:30:41 AM -05:00
Anions Processing Method ISO		STD4	5.0	Finished	8/8/2023 9:36:40 AM -05:00
Anions Processing Method ISO		STD5	5.0	Finished	8/8/2023 9:42:29 AM -05:00
Anions Processing Method ISO		STD6	5.0	Finished	8/8/2023 9:48:17 AM -05:00
Anions Processing Method ISO		ICV	5.0	Finished	8/8/2023 9:59:54 AM -05:00
Anions Processing Method ISO		ICB	5.0	Finished	8/8/2023 10:05:42 AM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	8/14/2023 6:24:54 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/14/2023 6:36:30 AM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	8/14/2023 6:48:06 AM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	8/14/2023 6:59:41 AM -05:00
Anions Processing Method ISO		HS23080210-01	5.0	Finished	8/14/2023 7:05:29 AM -05:00
Anions Processing Method ISO		HS23080210-01MS	5.0	Finished	8/14/2023 7:11:17 AM -05:00
Anions Processing Method ISO		HS23080210-01MSD	5.0	Finished	8/14/2023 7:17:05 AM -05:00
Anions Processing Method ISO		HS23080210-02	5.0	Finished	8/14/2023 7:22:52 AM -05:00
Anions Processing Method ISO		HS23080210-03	5.0	Finished	8/14/2023 7:28:40 AM -05:00
Anions Processing Method ISO		HS23080210-04	5.0	Finished	8/14/2023 7:34:28 AM -05:00
Anions Processing Method ISO		HS23080210-05	5.0	Finished	8/14/2023 7:40:16 AM -05:00
Anions Processing Method ISO		HS23080210-06	5.0	Finished	8/14/2023 7:46:04 AM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	8/14/2023 7:51:51 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/14/2023 8:03:27 AM -05:00
Anions Processing Method ISO		HS23080211-01	5.0	Finished	8/14/2023 8:15:03 AM -05:00
Anions Processing Method ISO		HS23080211-02	5.0	Finished	8/14/2023 8:20:50 AM -05:00
Anions Processing Method ISO		HS23080211-03	5.0	Finished	8/14/2023 8:26:38 AM -05:00
Anions Processing Method ISO		HS23080211-04	5.0	Finished	8/14/2023 8:32:26 AM -05:00
Anions Processing Method ISO		HS23080211-05	5.0	Finished	8/14/2023 8:38:14 AM -05:00
Anions Processing Method ISO		HS23080211-06	5.0	Finished	8/14/2023 8:44:02 AM -05:00
Anions Processing Method ISO		HS23080732-01	5.0	Finished	8/14/2023 8:49:49 AM -05:00

Sequence: 081423
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		HS23080732-01DF20	5.0	Finished	8/14/2023 8:55:37 AM -05:00
Anions Processing Method ISO		HS23080732-02	5.0	Finished	8/14/2023 9:01:25 AM -05:00
Anions Processing Method ISO		HS23080732-02DF20	5.0	Finished	8/14/2023 9:07:13 AM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	8/14/2023 9:13:01 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/14/2023 9:30:24 AM -05:00
Anions Processing Method ISO		HS23080732-03	5.0	Finished	8/14/2023 9:42:00 AM -05:00
Anions Processing Method ISO		HS23080732-03DF20	5.0	Finished	8/14/2023 9:47:47 AM -05:00
Anions Processing Method ISO		HS23080732-04	5.0	Finished	8/14/2023 9:53:35 AM -05:00
Anions Processing Method ISO		HS23080732-04DF20	5.0	Finished	8/14/2023 9:59:23 AM -05:00
Anions Processing Method ISO		HS23080558-01DF2	5.0	Finished	8/14/2023 10:05:11 AM -05:00
Anions Processing Method ISO		HS23080558-01DF50	5.0	Finished	8/14/2023 10:10:59 AM -05:00
Anions Processing Method ISO		HS23080210-01DF2	5.0	Finished	8/14/2023 10:16:46 AM -05:00
Anions Processing Method ISO		HS23080211-06DF5	5.0	Finished	8/14/2023 10:22:34 AM -05:00
Anions Processing Method ISO		HS23080732-02DF100	5.0	Finished	8/14/2023 10:28:22 AM -05:00
Anions Processing Method ISO		HS23080732-03DF40	5.0	Finished	8/14/2023 10:34:10 AM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	8/14/2023 10:39:57 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/14/2023 10:51:33 AM -05:00
Anions Processing Method ISO		HS23080732-04DF100	5.0	Finished	8/14/2023 11:03:09 AM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	8/14/2023 11:20:32 AM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	8/14/2023 11:26:20 AM -05:00
Anions Processing Method ISO		HS23080060-01DF500	5.0	Finished	8/14/2023 11:37:56 AM -05:00
Anions Processing Method ISO		HS23080060-01MSDF5	5.0	Finished	8/14/2023 11:43:43 AM -05:00
Anions Processing Method ISO		HS23080060-01MSDDF	5.0	Finished	8/14/2023 11:49:31 AM -05:00
Anions Processing Method ISO		HS23080060-02DF500	5.0	Finished	8/14/2023 11:55:19 AM -05:00
Anions Processing Method ISO		HS23080060-03DF500	5.0	Finished	8/14/2023 12:01:07 PM -05:00
Anions Processing Method ISO		HS23080060-04DF500	5.0	Finished	8/14/2023 12:06:55 PM -05:00
Anions Processing Method ISO		HS23080060-05DF500	5.0	Finished	8/14/2023 12:12:43 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	8/14/2023 12:18:30 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/14/2023 12:30:06 PM -05:00
Anions Processing Method ISO		HS23080060-06DF50	5.0	Finished	8/14/2023 12:41:53 PM -05:00

Sequence: 081423
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		HS23080060-07DF500	5.0	Finished	8/14/2023 12:47:41 PM -05:00
Anions Processing Method ISO		HS23080060-07MSDF5	5.0	Finished	8/14/2023 12:53:29 PM -05:00
Anions Processing Method ISO		HS23080060-07MSDDF	5.0	Finished	8/14/2023 12:59:16 PM -05:00
Anions Processing Method ISO		HS23080780-01DF10	5.0	Finished	8/14/2023 1:05:04 PM -05:00
Anions Processing Method ISO		HS23080780-02DF10	5.0	Finished	8/14/2023 1:11:03 PM -05:00
Anions Processing Method ISO		HS23080780-03DF10	5.0	Finished	8/14/2023 1:16:51 PM -05:00
Anions Processing Method ISO		HS23080780-04DF10	5.0	Finished	8/14/2023 1:22:39 PM -05:00
Anions Processing Method ISO		HS23080780-05DF5	5.0	Finished	8/14/2023 1:28:27 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	8/14/2023 1:40:02 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/14/2023 1:51:38 PM -05:00
Anions Processing Method ISO		HS23080151-01DF250	5.0	Finished	8/14/2023 2:03:14 PM -05:00
Anions Processing Method ISO		HS23080151-02DF250	5.0	Finished	8/14/2023 2:09:02 PM -05:00
Anions Processing Method ISO		HS23080151-03DF250	5.0	Finished	8/14/2023 2:14:50 PM -05:00
Anions Processing Method ISO		HS23080397-01DF20	5.0	Finished	8/14/2023 2:20:38 PM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	8/14/2023 2:38:01 PM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	8/14/2023 2:43:49 PM -05:00
Anions Processing Method ISO		HS23080809-01	5.0	Finished	8/14/2023 2:55:25 PM -05:00
Anions Processing Method ISO		HS23080809-01MS	5.0	Finished	8/14/2023 3:01:13 PM -05:00
Anions Processing Method ISO		HS23080809-01MSD	5.0	Finished	8/14/2023 3:07:01 PM -05:00
Anions Processing Method ISO		HS23080809-02	5.0	Finished	8/14/2023 3:12:49 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	8/14/2023 3:18:37 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/14/2023 3:36:01 PM -05:00
Anions Processing Method ISO		HS23080809-03	5.0	Finished	8/14/2023 3:47:36 PM -05:00
Anions Processing Method ISO		HS23080809-04	5.0	Finished	8/14/2023 3:53:24 PM -05:00
Anions Processing Method ISO		HS23080809-05	5.0	Finished	8/14/2023 3:59:12 PM -05:00
Anions Processing Method ISO		HS23080809-06	5.0	Finished	8/14/2023 4:05:00 PM -05:00
Anions Processing Method ISO		HS23080809-07	5.0	Finished	8/14/2023 4:10:48 PM -05:00
Anions Processing Method ISO		HS23080809-08	5.0	Finished	8/14/2023 4:16:36 PM -05:00
Anions Processing Method ISO		HS23080809-09	5.0	Finished	8/14/2023 4:22:24 PM -05:00
Anions Processing Method ISO		HS23080809-10	5.0	Finished	8/14/2023 4:28:12 PM -05:00

Sequence: 081423
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		HS23080809-12	5.0	Finished	8/14/2023 4:34:00 PM -05:00
Anions Processing Method ISO		HS23080809-13	5.0	Finished	8/14/2023 4:39:48 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	8/14/2023 4:51:24 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/14/2023 5:03:00 PM -05:00
Anions Processing Method ISO		HS23070443-01	5.0	Finished	8/14/2023 5:14:36 PM -05:00
Anions Processing Method ISO		HS23080809-11	5.0	Finished	8/14/2023 5:26:12 PM -05:00
Anions Processing Method ISO		HS23080809-11MS	5.0	Finished	8/14/2023 5:32:00 PM -05:00
Anions Processing Method ISO		HS23080809-11MSD	5.0	Finished	8/14/2023 5:37:48 PM -05:00
Anions Processing Method ISO		HS23080817-01	5.0	Finished	8/14/2023 5:43:36 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	8/14/2023 5:49:24 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/14/2023 6:06:48 PM -05:00

Sequence: 080823
Injection #6: STD6

Calibration

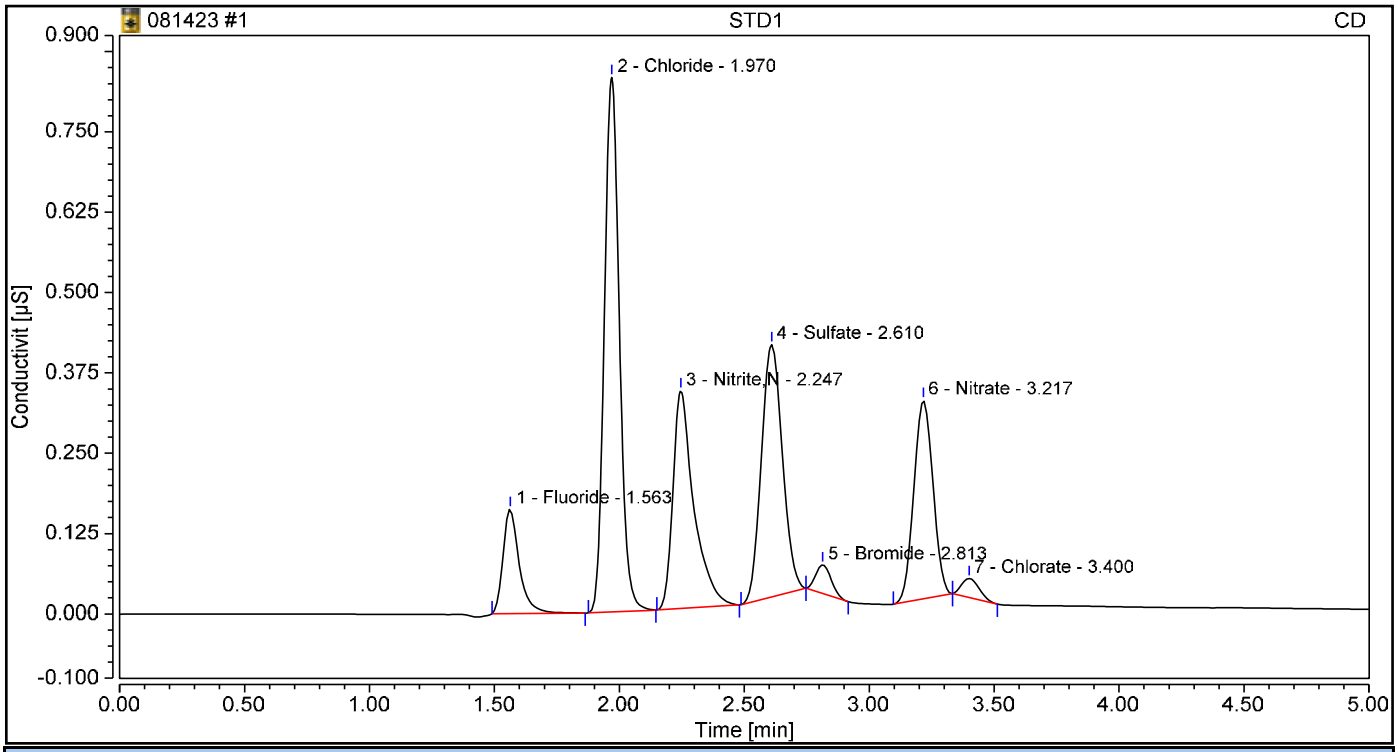
Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	Fluoride	Quad, WithOffset, 1/A	Area	6	20.1152	0.99884	-0.0155	0.2303	0.0000
2	Chloride	Lin, WithOffset, 1/A	Area	6	4.2696	0.99992	-0.0316	0.1715	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	5.5774	0.99985	-0.0051	0.3800	-0.0045
4	Sulfate	Lin, WithOffset, 1/A	Area	6	21.8403	0.99800	-0.0271	0.1106	0.0000
5	Bromide	Quad, WithOffset, 1/A	Area	6	27.4700	0.99813	-0.0002	0.0331	0.0011
6	Nitrate	Lin, WithOffset, 1/A	Area	6	5.1550	0.99988	-0.0104	0.3739	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	6	6.2932	0.99985	-0.0019	0.0405	-0.0004
n.a.	Phosphate	Lin, WithOffset, 1/A	Area	0	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**27.4700**	0.99992			
Minimum					4.2696	**0.99800**			

Chromatogram and Results

Injection Details

Injection Name:	**STD1**	*Run Time (min):*	**5.00**
Vial Number:	**GA1**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**1**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:18**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

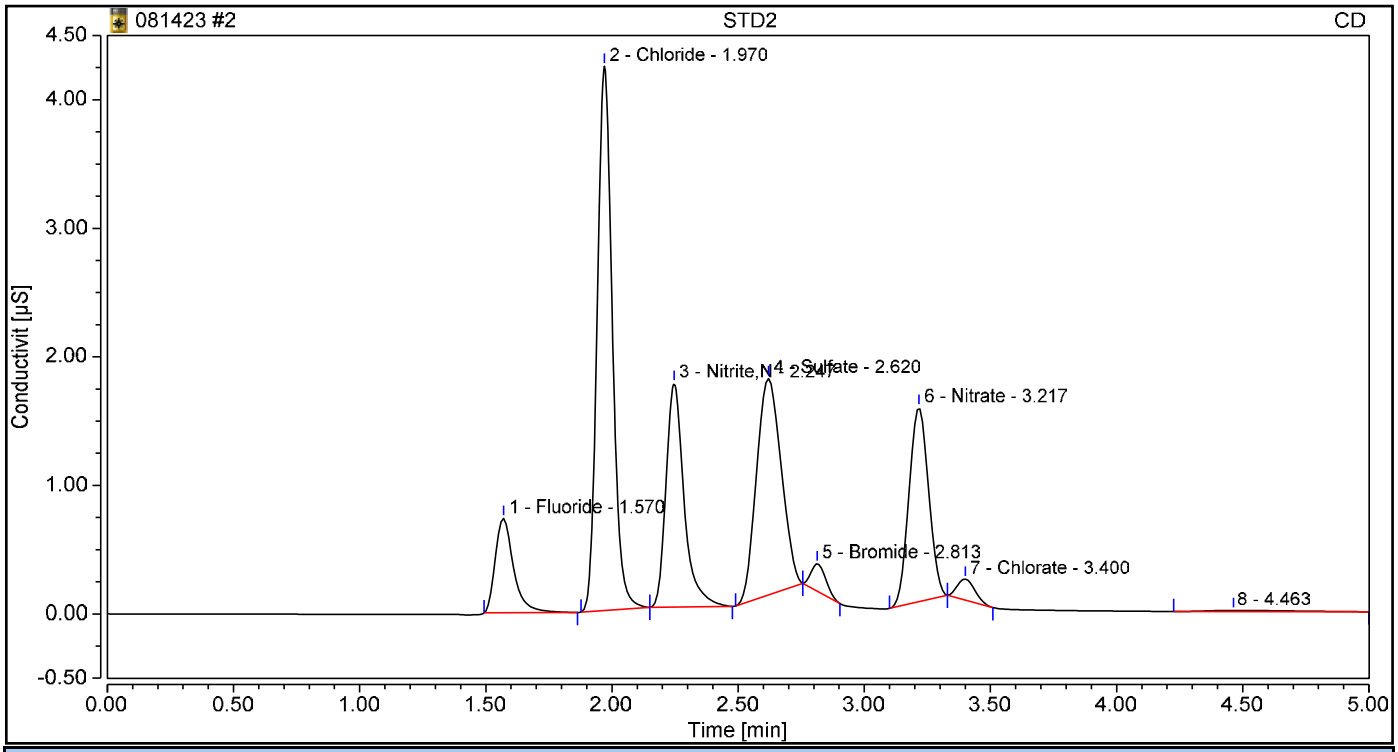
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.563	0.012	0.162	7.05	7.70	0.1207
2	Chloride	1.970	0.058	0.831	33.23	39.44	0.5225
3	Nitrite,N	2.247	0.033	0.339	18.77	16.06	0.0996
4	Sulfate	2.610	0.038	0.393	21.99	18.62	0.5916
5	Bromide	2.813	0.003	0.045	1.87	2.12	0.1046
6	Nitrate	3.217	0.027	0.309	15.71	14.65	0.1010
7	Chlorate	3.400	0.002	0.030	1.38	1.40	0.1068
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.174**	**2.108**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD2**	*Run Time (min):*	**5.00**
Vial Number:	**GA2**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**2**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:24**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

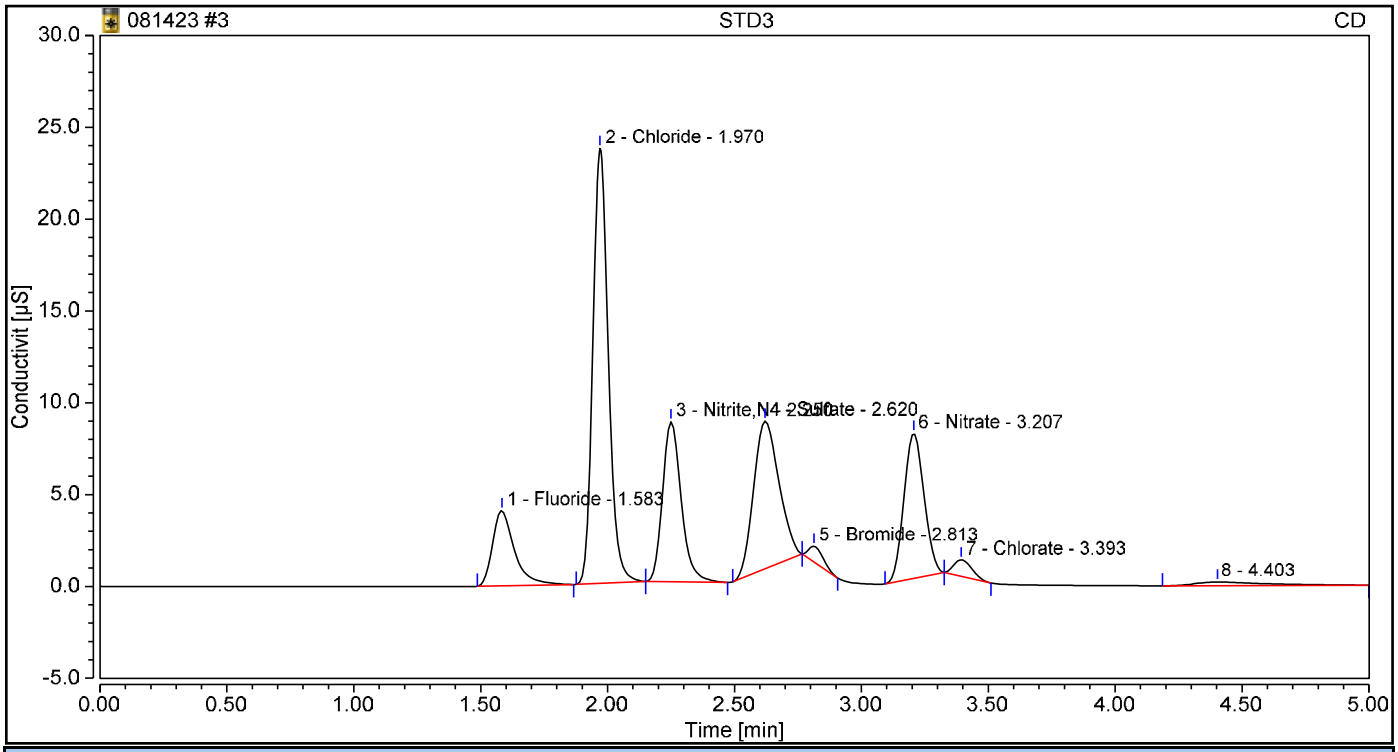
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.570	0.062	0.734	7.21	7.13	0.3362
2	Chloride	1.970	0.294	4.235	34.21	41.15	1.8982
3	Nitrite,N	2.247	0.144	1.741	16.77	16.92	0.3943
4	Sulfate	2.620	0.191	1.683	22.27	16.36	1.9750
5	Bromide	2.813	0.015	0.214	1.70	2.08	0.4420
6	Nitrate	3.217	0.137	1.512	15.90	14.69	0.3931
7	Chlorate	3.400	0.013	0.164	1.55	1.59	0.3772
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.463	0.003	0.009	0.40	0.09	n.a.
Total:			**0.859**	**10.291**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD3**	*Run Time (min):*	**5.00**
Vial Number:	**GA3**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**3**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

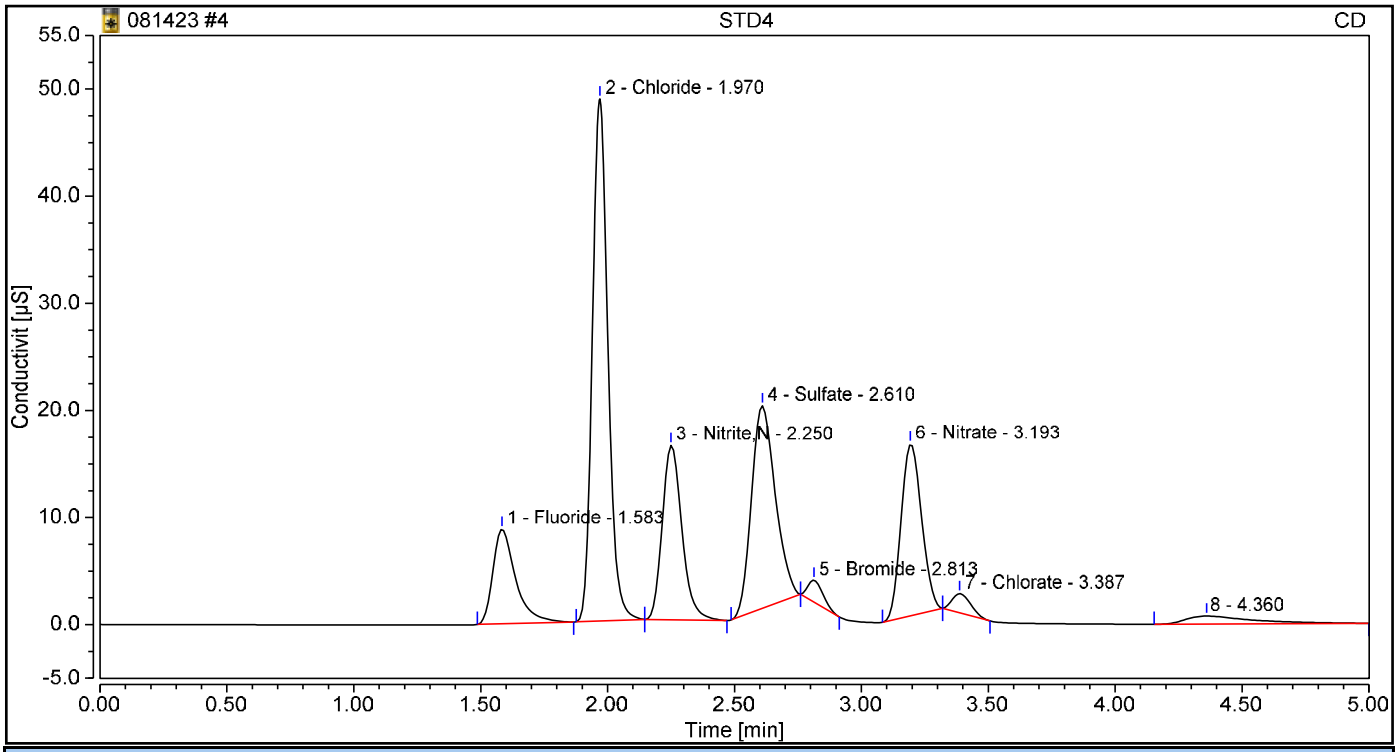
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.583	0.407	4.090	8.71	7.52	1.8358
2	Chloride	1.970	1.666	23.684	35.62	43.54	9.8990
3	Nitrite,N	2.250	0.747	8.727	15.98	16.04	2.0284
4	Sulfate	2.620	0.930	8.048	19.89	14.80	8.6573
5	Bromide	2.813	0.058	0.859	1.25	1.58	1.6790
6	Nitrate	3.207	0.728	7.896	15.57	14.52	1.9747
7	Chlorate	3.393	0.075	0.893	1.61	1.64	1.9501
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.403	0.064	0.196	1.36	0.36	n.a.
Total:			**4.676**	**54.394**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD4**	*Run Time (min):*	**5.00**
Vial Number:	**GA4**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**4**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

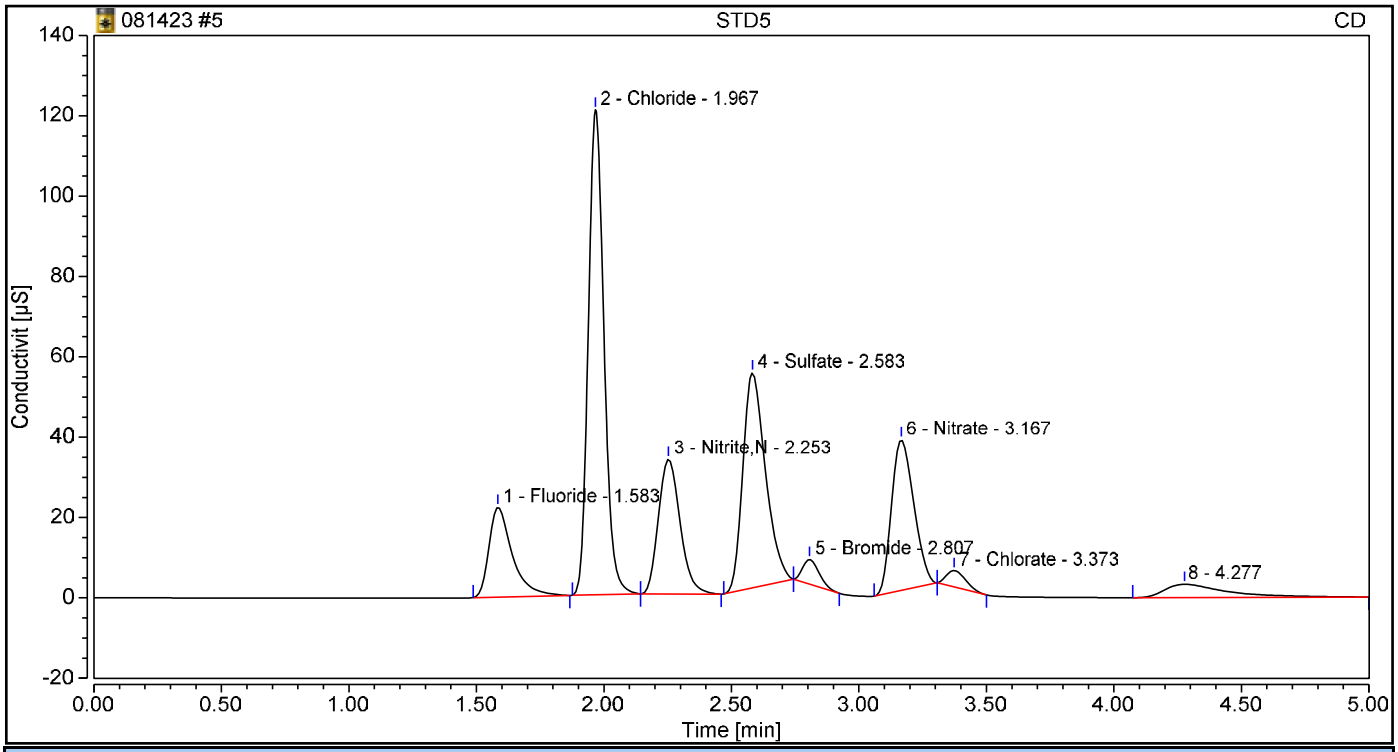
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.583	0.916	8.843	9.23	7.80	4.0419
2	Chloride	1.970	3.451	48.740	34.77	42.99	20.3099
3	Nitrite,N	2.250	1.467	16.280	14.78	14.36	4.0682
4	Sulfate	2.610	2.054	18.903	20.70	16.67	18.8236
5	Bromide	2.813	0.144	2.051	1.45	1.81	3.8846
6	Nitrate	3.193	1.507	16.041	15.19	14.15	4.0589
7	Chlorate	3.387	0.154	1.783	1.55	1.57	4.0320
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.360	0.230	0.747	2.32	0.66	n.a.
Total:			**9.924**	**113.388**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD5**	*Run Time (min):*	**5.00**
Vial Number:	**GA5**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**5**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

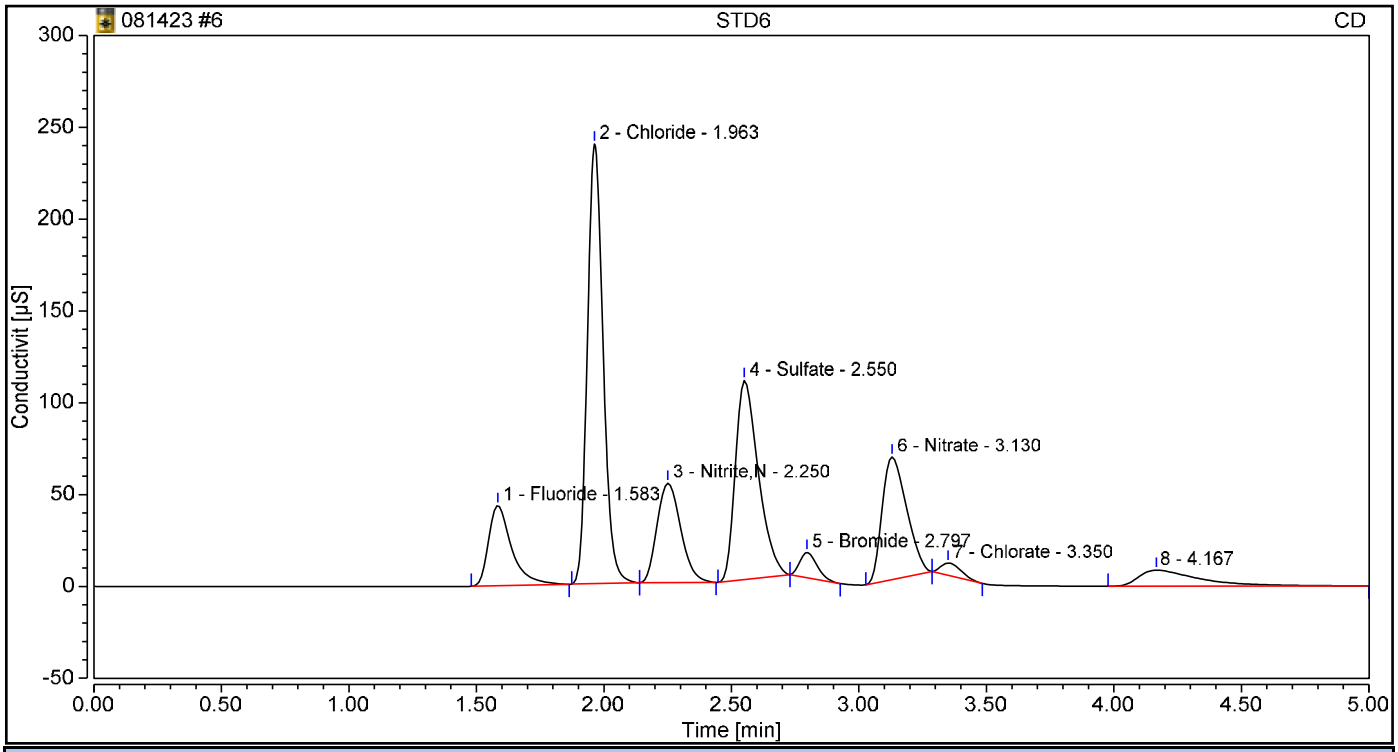
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.583	2.361	22.368	9.35	7.96	10.3121
2	Chloride	1.967	8.574	120.681	33.96	42.93	50.1891
3	Nitrite,N	2.253	3.298	33.531	13.06	11.93	9.8235
4	Sulfate	2.583	5.477	53.523	21.70	19.04	49.7821
5	Bromide	2.807	0.462	6.145	1.83	2.19	10.4730
6	Nitrate	3.167	3.777	37.501	14.96	13.34	10.1285
7	Chlorate	3.373	0.362	4.070	1.43	1.45	10.0896
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.277	0.935	3.315	3.70	1.18	n.a.
Total:			**25.246**	**281.135**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD6**	*Run Time (min):*	**5.00**
Vial Number:	**GA6**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**6**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

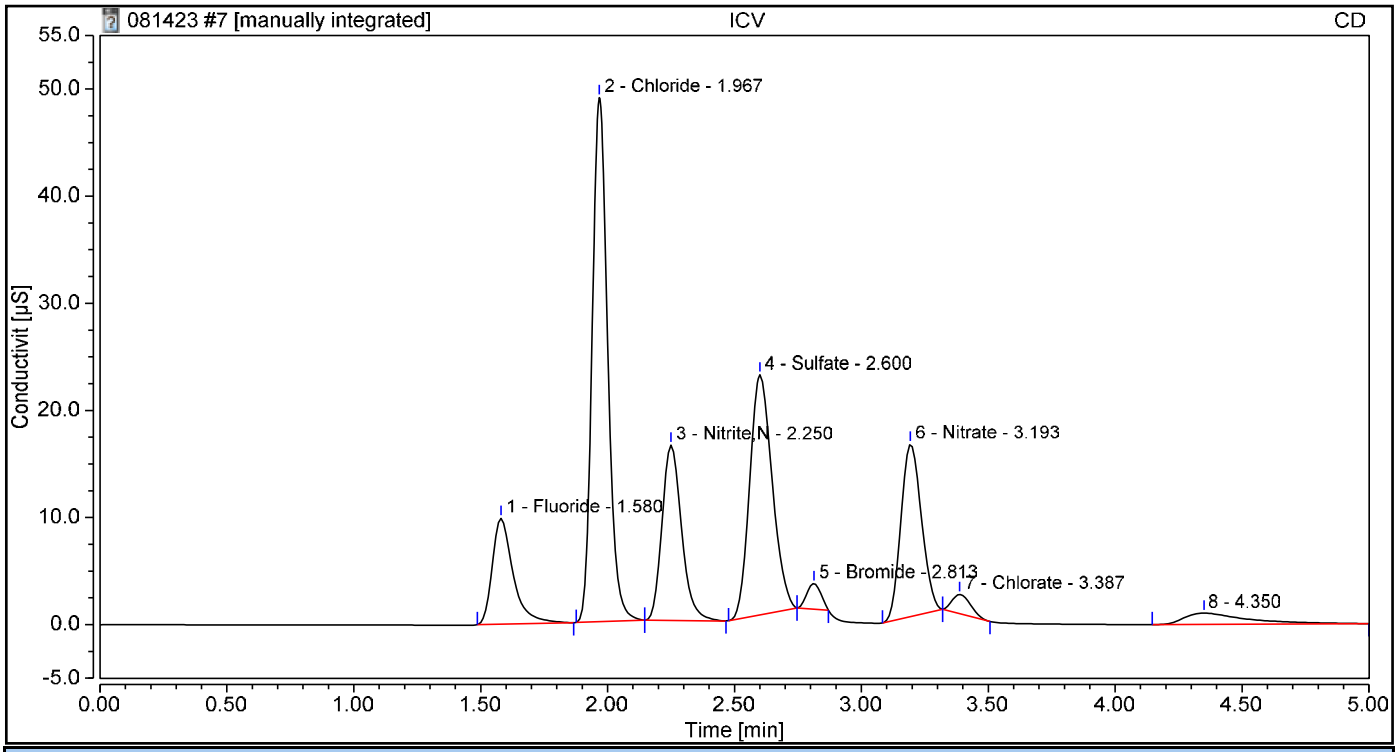
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.583	4.562	43.755	9.07	8.08	19.8533
2	Chloride	1.963	17.060	239.468	33.91	44.21	99.6814
3	Nitrite,N	2.250	5.833	54.192	11.60	10.00	20.0997
4	Sulfate	2.550	11.325	108.374	22.51	20.01	102.6704
5	Bromide	2.797	1.075	13.716	2.14	2.53	19.8561
6	Nitrate	3.130	7.410	66.773	14.73	12.33	19.8438
7	Chlorate	3.350	0.631	6.708	1.25	1.24	19.9371
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.167	2.410	8.683	4.79	1.60	n.a.
Total:			**50.304**	**541.669**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**5.00**
Vial Number:	**GA7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:59**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

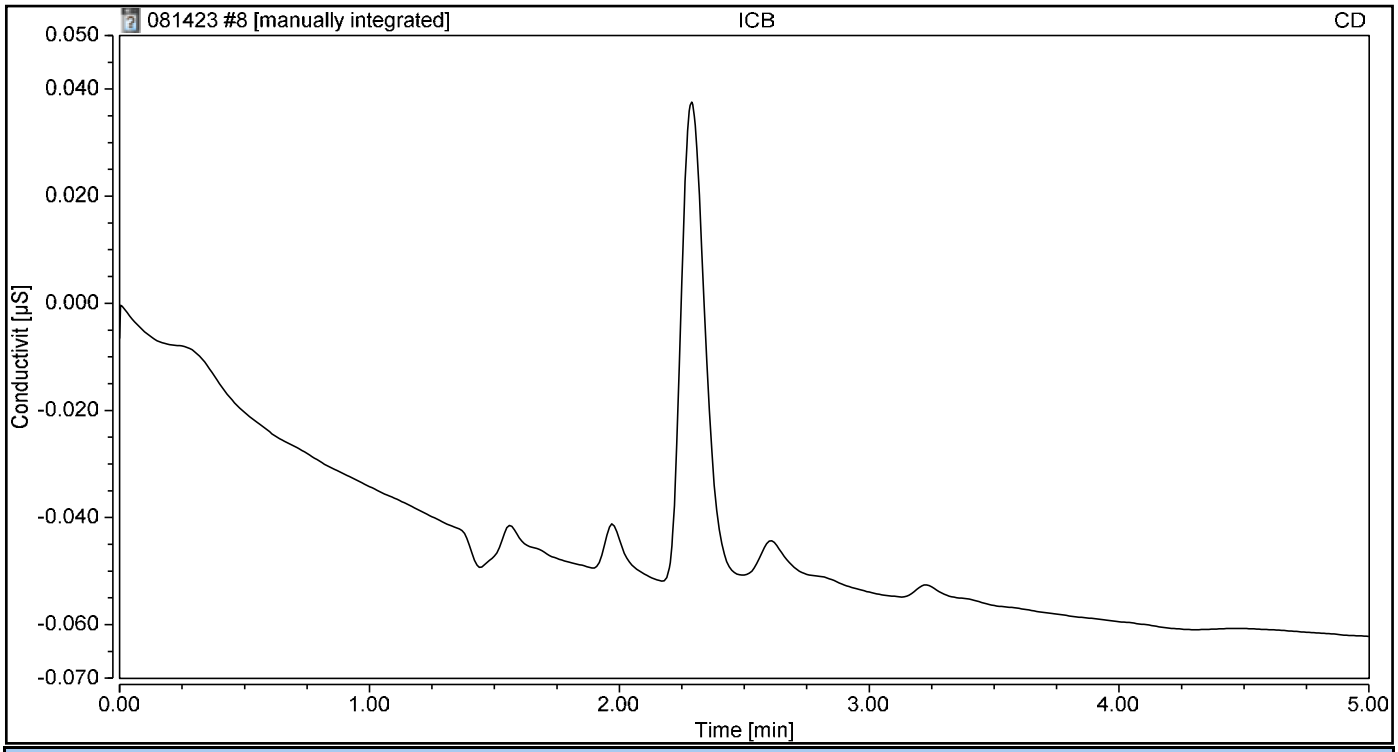
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.580	0.937	9.873	9.13	8.30	4.1371
2	Chloride	1.967	3.446	48.919	33.56	41.14	20.2850
3	Nitrite,N	2.250	1.465	16.360	14.26	13.76	4.0623
4	Sulfate	2.600	2.294	22.412	22.34	18.85	20.9964
5	Bromide	2.813	0.155	2.393	1.51	2.01	4.1359
6	Nitrate	3.193	1.514	16.091	14.74	13.53	4.0765
7	Chlorate	3.387	0.154	1.793	1.50	1.51	4.0299
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.350	0.305	1.059	2.97	0.89	n.a.
Total:			**10.271**	**118.900**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**5.00**
Vial Number:	**R5**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 10:05**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

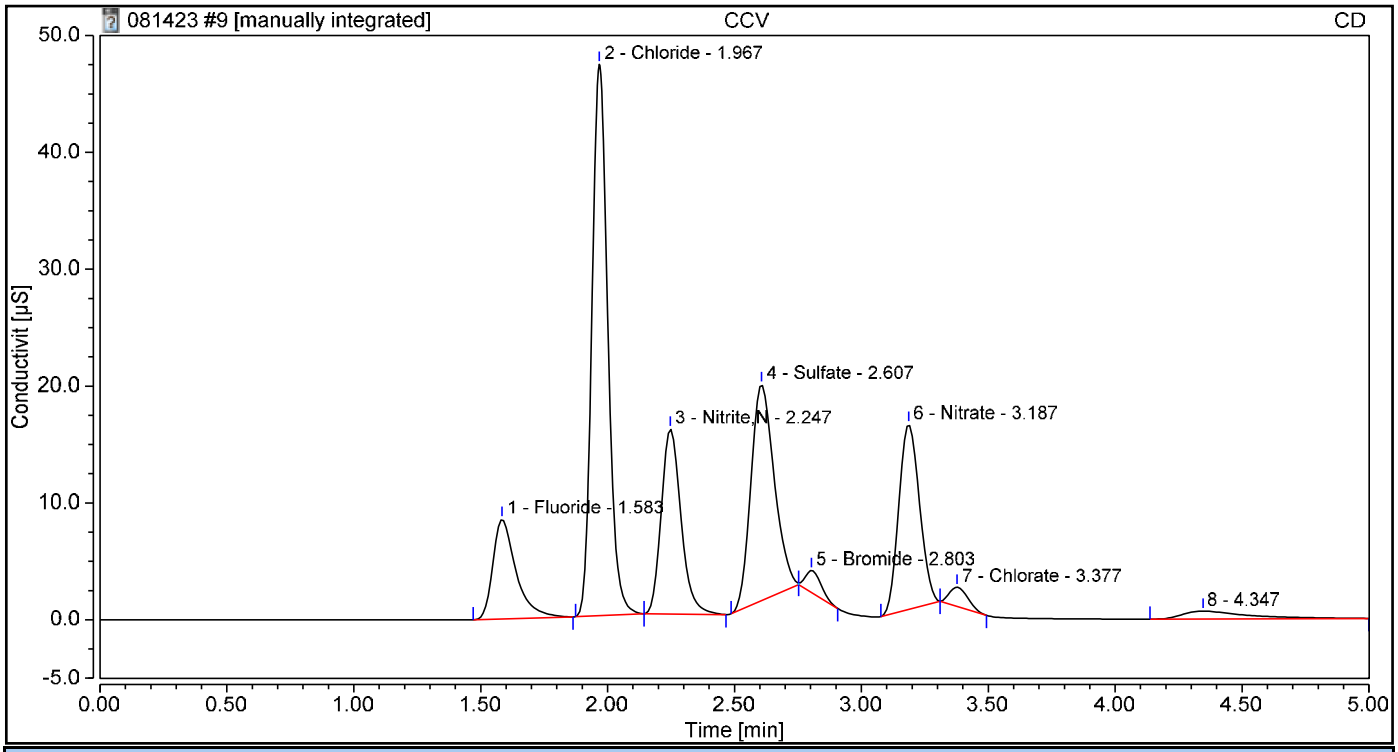
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.000**	**0.000**	**0.00**	**0.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**5.00**
Vial Number:	**R1**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 06:24**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

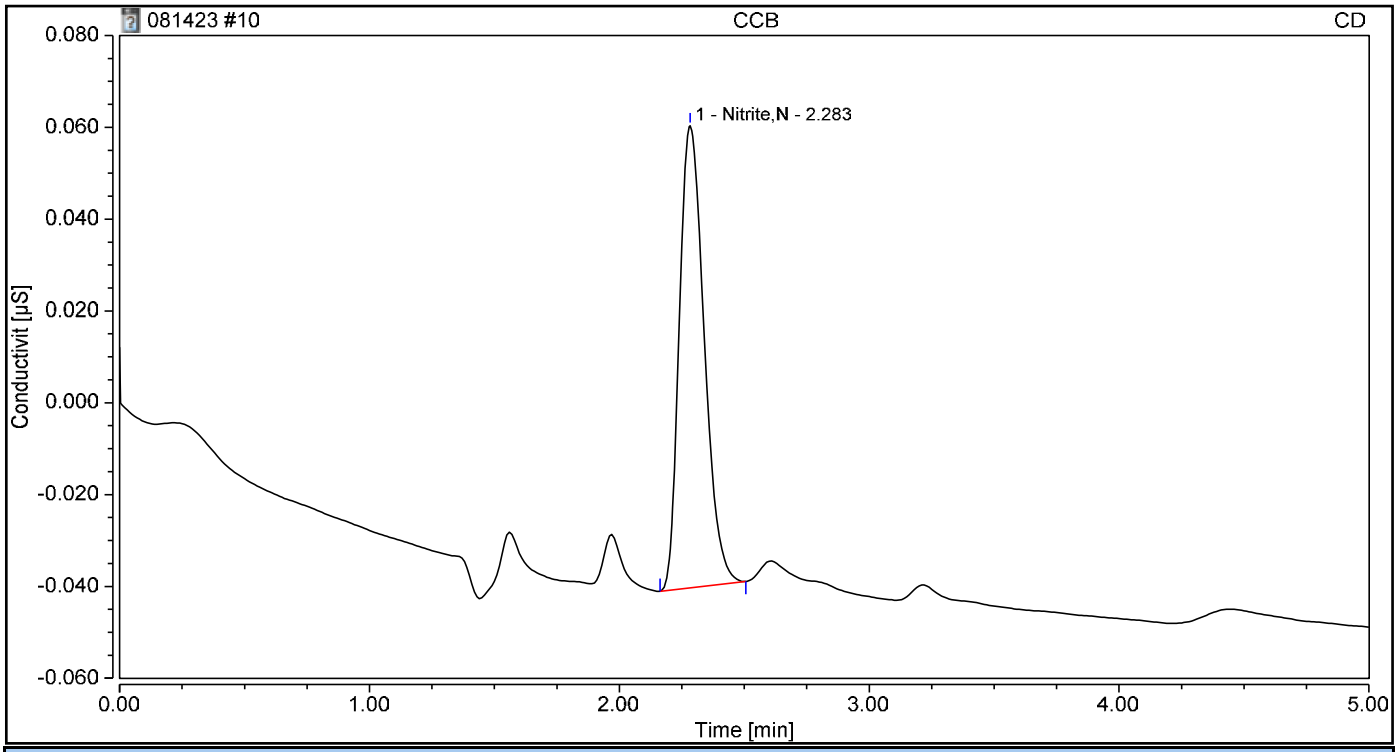
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.583	0.900	8.525	9.29	7.75	3.9747
2	Chloride	1.967	3.406	47.191	35.16	42.88	20.0474
3	Nitrite,N	2.247	1.433	15.829	14.80	14.38	3.9706
4	Sulfate	2.607	1.970	18.479	20.34	16.79	18.0669
5	Bromide	2.803	0.137	1.877	1.41	1.71	3.7075
6	Nitrate	3.187	1.499	15.826	15.47	14.38	4.0354
7	Chlorate	3.377	0.142	1.659	1.46	1.51	3.6918
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.347	0.199	0.673	2.06	0.61	n.a.
Total:			**9.686**	**110.060**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R6**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 06:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

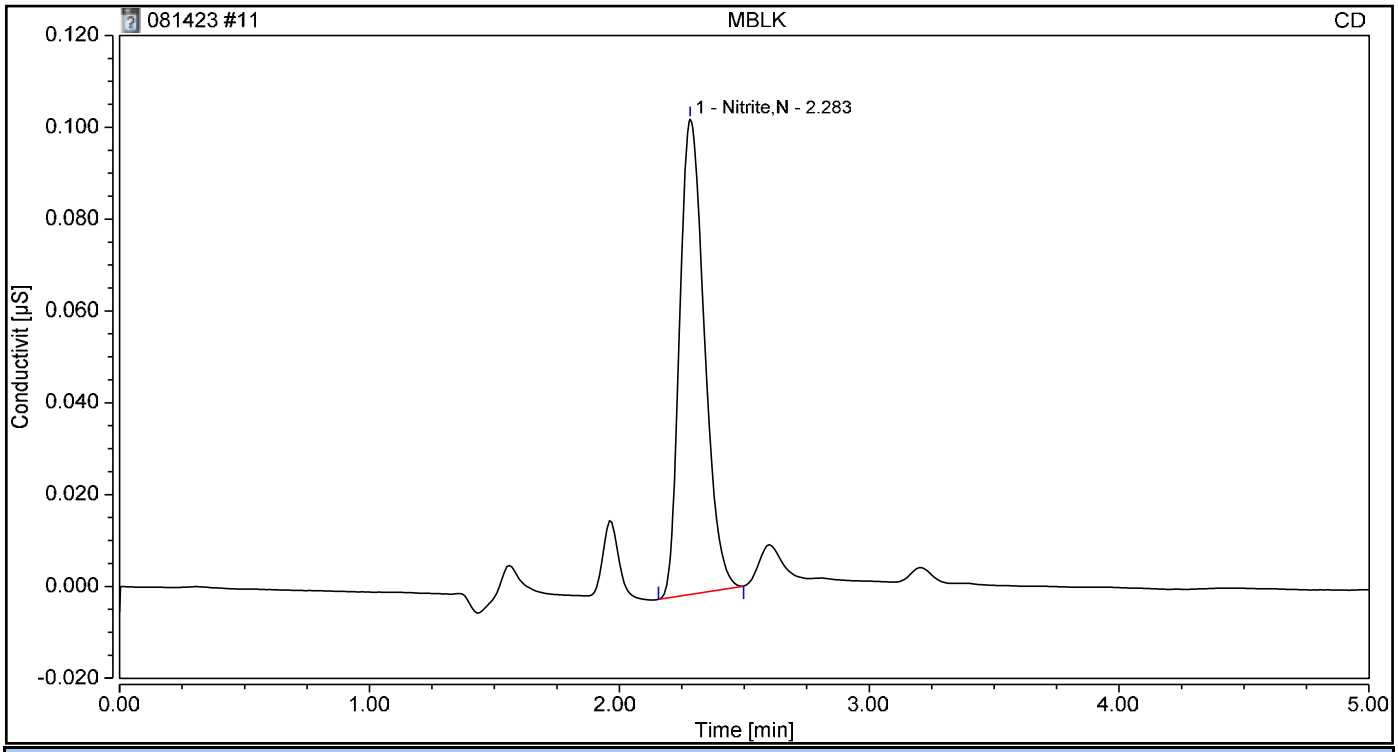
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Nitrite,N	2.283	0.012	0.101	100.00	100.00	0.0440
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.012**	**0.101**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MBLK**	*Run Time (min):*	**5.00**
Vial Number:	**R5**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 06:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

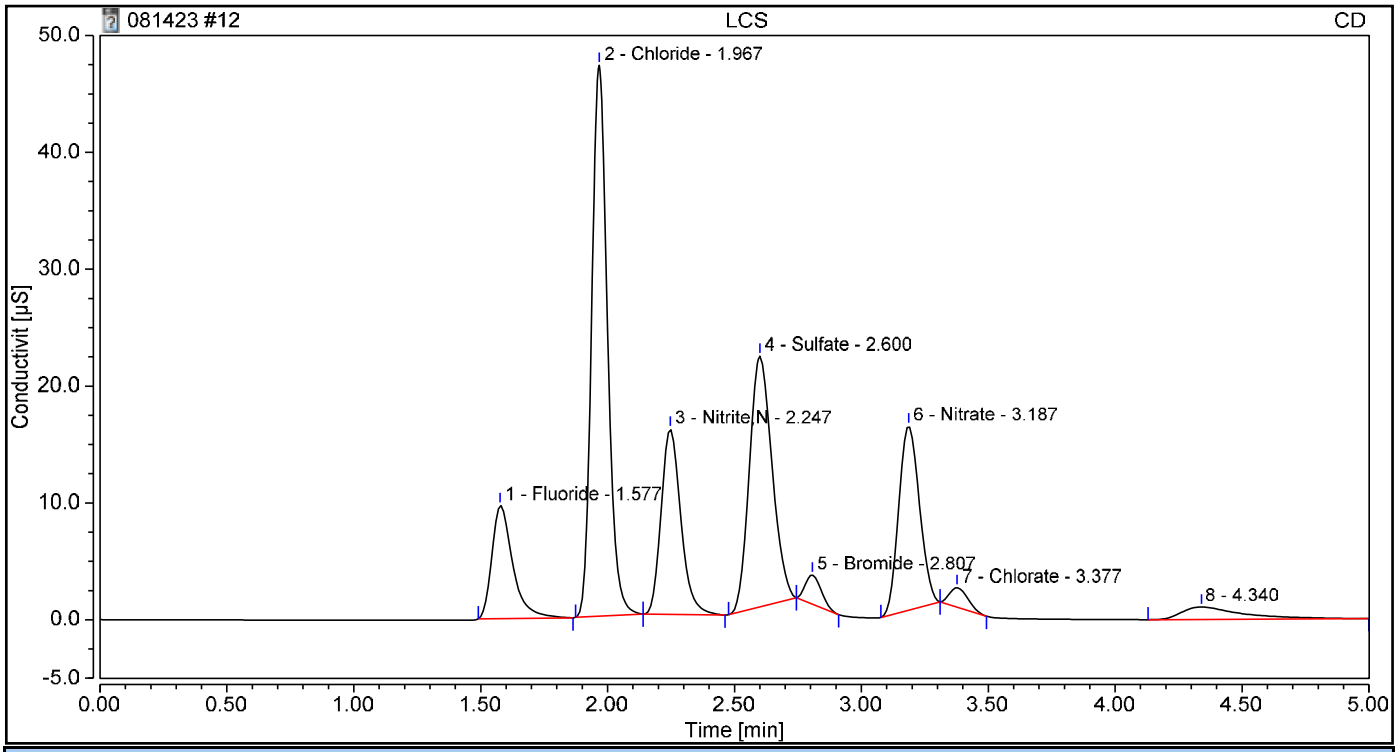
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Nitrite,N	2.283	0.012	0.104	100.00	100.00	0.0447
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.012**	**0.104**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**5.00**
Vial Number:	**R2**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 06:59**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

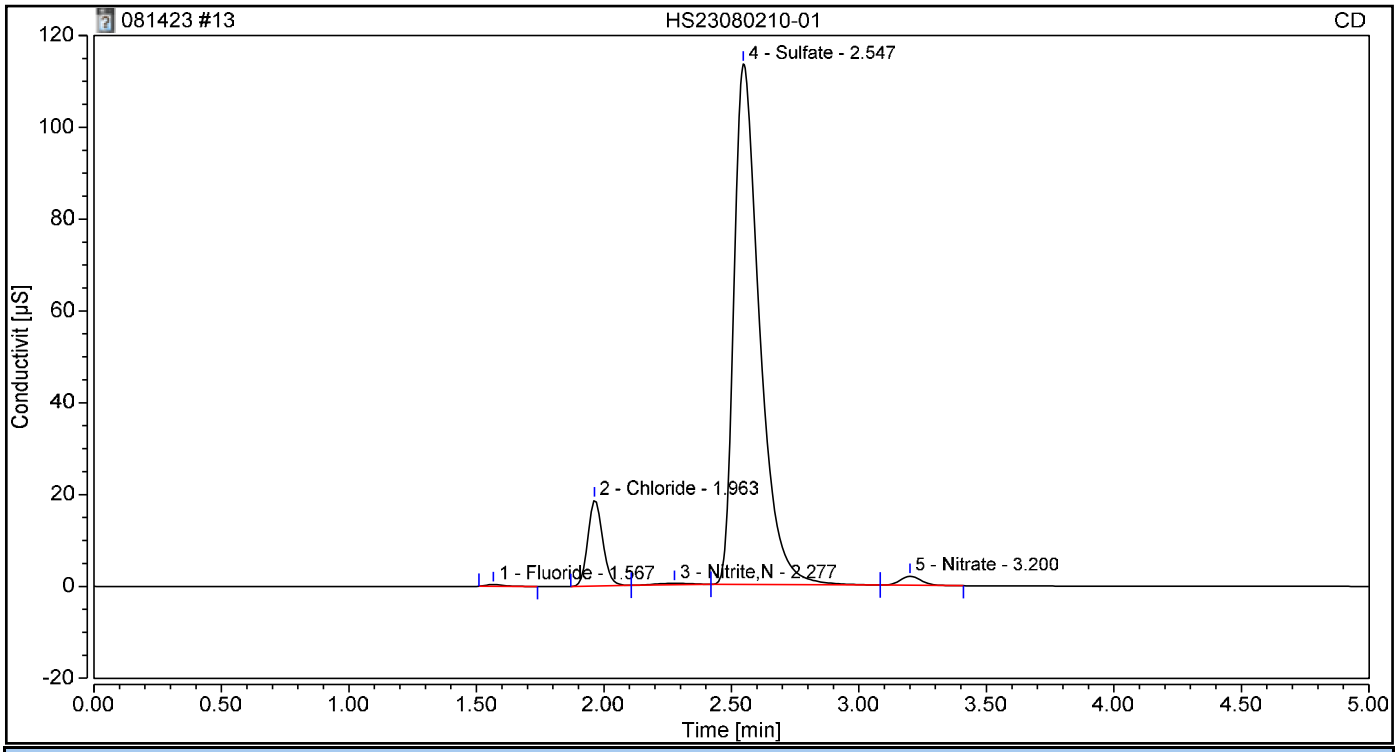
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.577	0.922	9.683	9.15	8.41	4.0697
2	Chloride	1.967	3.385	47.139	33.59	40.94	19.9283
3	Nitrite,N	2.247	1.436	15.865	14.25	13.78	3.9777
4	Sulfate	2.600	2.217	21.454	22.00	18.63	20.2963
5	Bromide	2.807	0.184	2.495	1.83	2.17	4.8227
6	Nitrate	3.187	1.494	15.757	14.83	13.69	4.0242
7	Chlorate	3.377	0.142	1.669	1.41	1.45	3.7086
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.340	0.298	1.068	2.95	0.93	n.a.
Total:			**10.078**	**115.131**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS23080210-01**	*Run Time (min):*	**5.00**
Vial Number:	**RA1**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 07:05**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

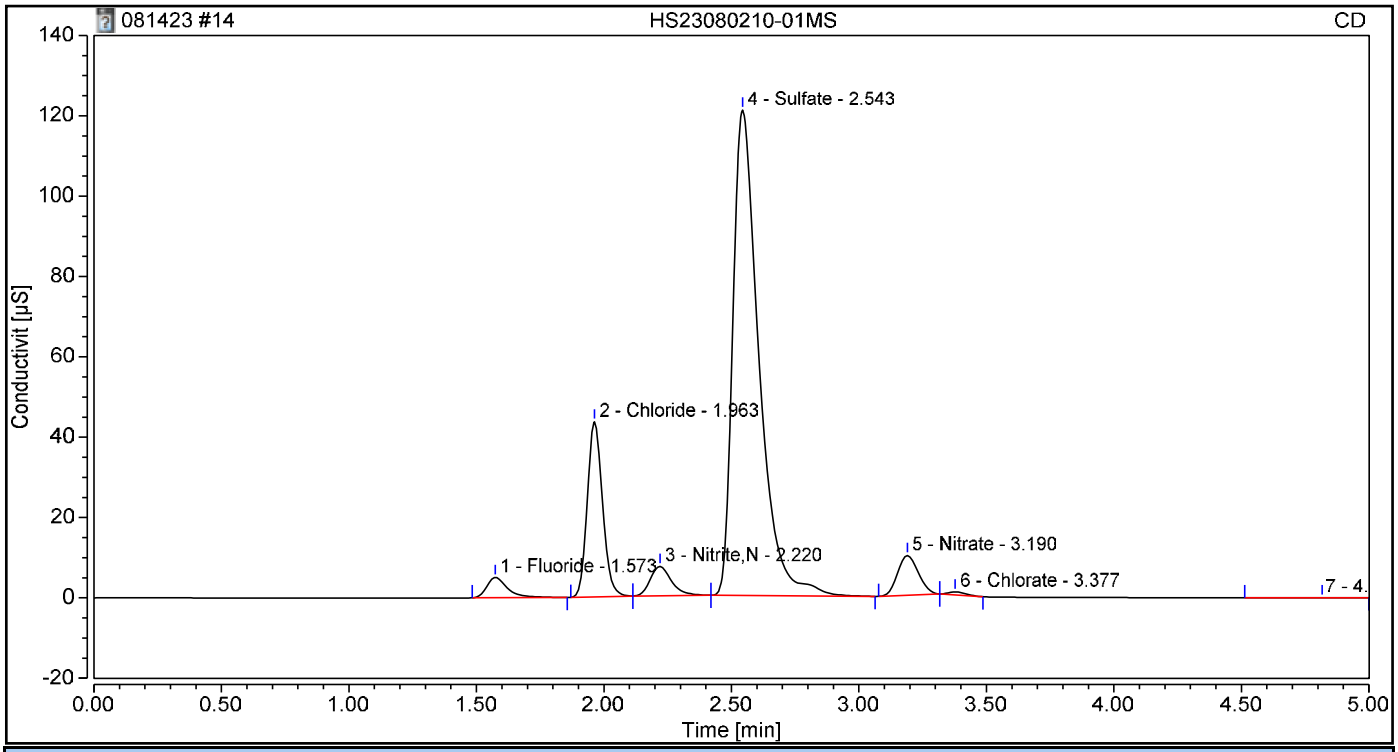
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.567	0.031	0.406	0.21	0.30	0.2013
2	Chloride	1.963	1.269	18.806	8.62	13.95	7.5882
3	Nitrite,N	2.277	0.054	0.315	0.37	0.23	0.1556
4	Sulfate	2.547	13.184	113.349	89.53	84.05	119.4843
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	3.200	0.187	1.978	1.27	1.47	0.5290
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**14.725**	**134.855**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS23080210-01MS**	*Run Time (min):*	**5.00**
Vial Number:	**RA2**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 07:11**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

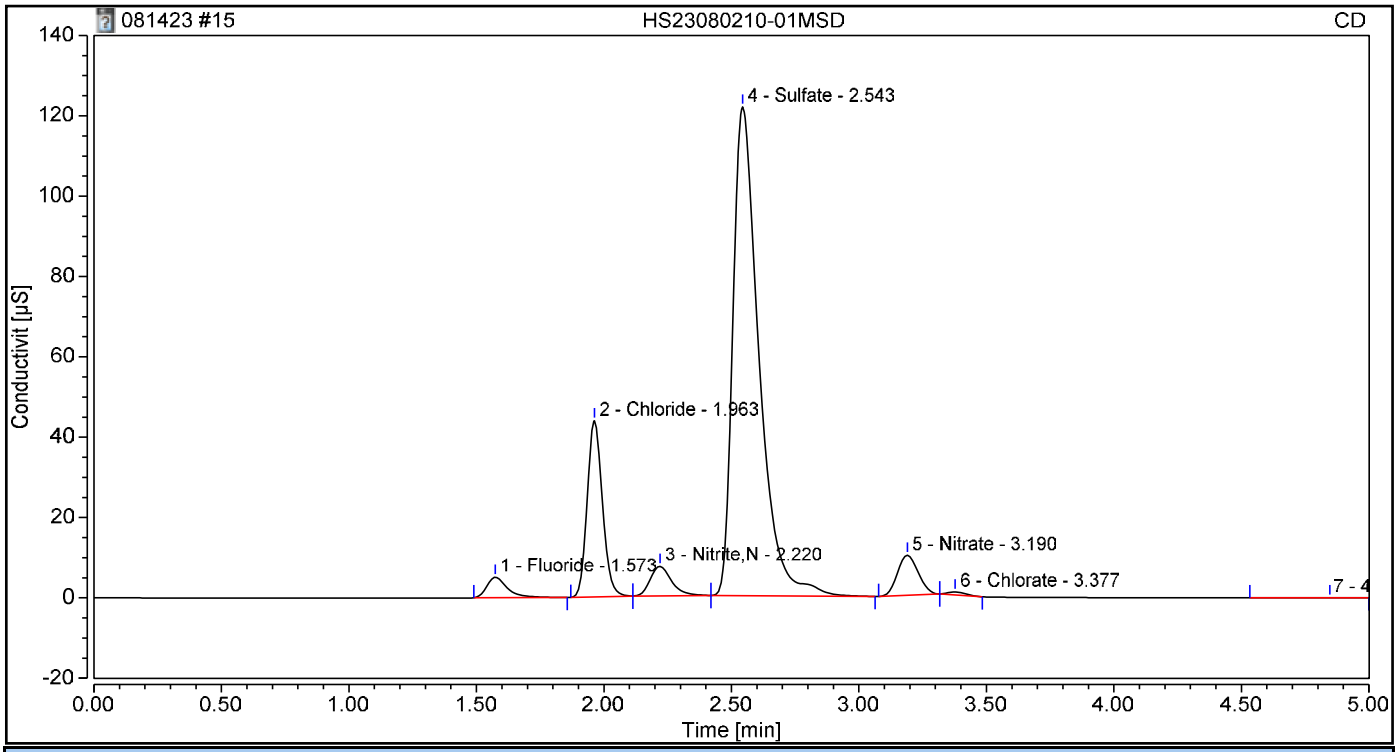
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.573	0.479	5.054	2.46	2.70	2.1482
2	Chloride	1.963	3.009	43.551	15.45	23.24	17.7341
3	Nitrite,N	2.220	0.703	7.297	3.61	3.89	1.9057
4	Sulfate	2.543	14.293	120.830	73.39	64.49	129.5208
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	3.190	0.927	9.870	4.76	5.27	2.5072
6	Chlorate	3.377	0.061	0.751	0.31	0.40	1.5812
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7		4.817	0.004	0.015	0.02	0.01	n.a.
Total:			**19.477**	**187.367**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS23080210-01MSD**	*Run Time (min):*	**5.00**
Vial Number:	**RA3**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 07:17**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

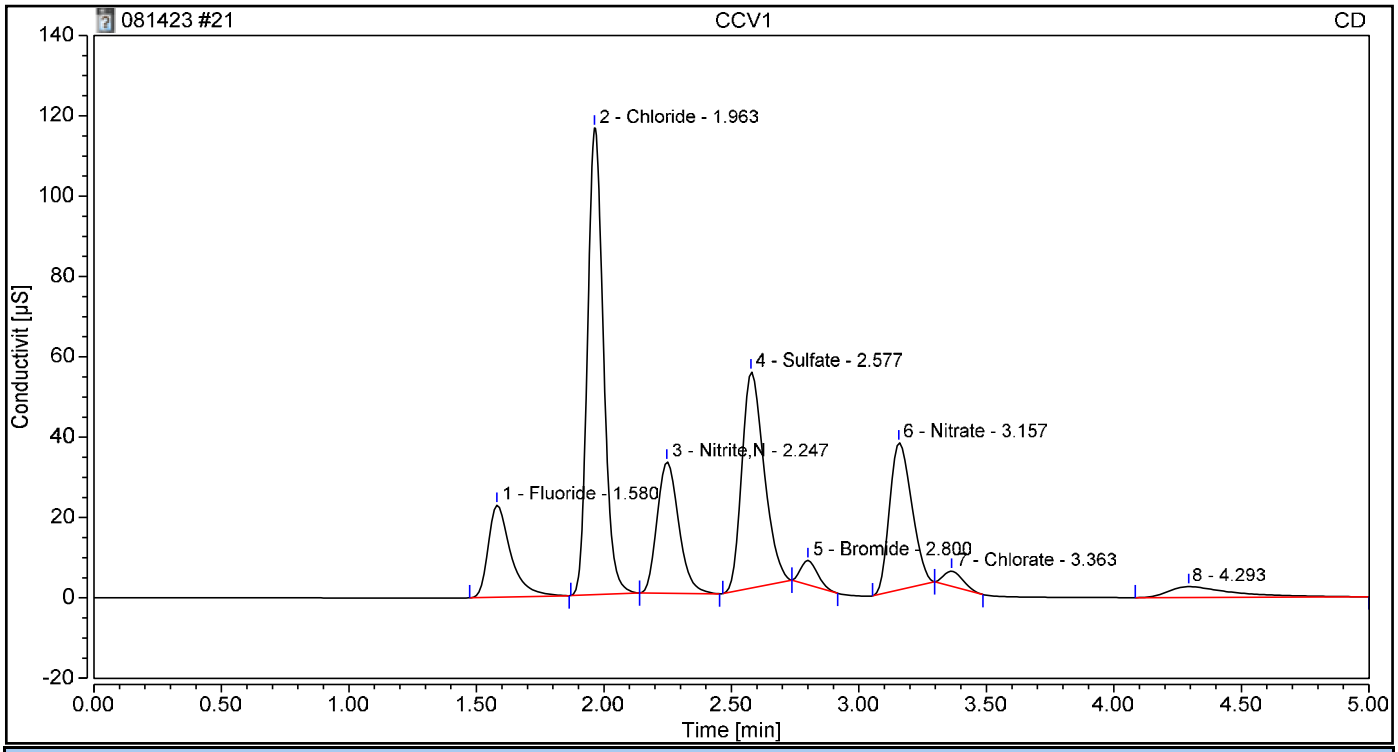
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.573	0.476	5.103	2.43	2.71	2.1353
2	Chloride	1.963	3.030	43.837	15.45	23.24	17.8536
3	Nitrite,N	2.220	0.707	7.346	3.61	3.89	1.9165
4	Sulfate	2.543	14.390	121.629	73.41	64.47	130.3934
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	Nitrate	3.190	0.934	9.958	4.76	5.28	2.5257
6	Chlorate	3.377	0.061	0.762	0.31	0.40	1.5897
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7		4.847	0.005	0.016	0.03	0.01	n.a.
Total:			**19.603**	**188.651**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV1**	*Run Time (min):*	**5.00**
Vial Number:	**R3**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 07:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

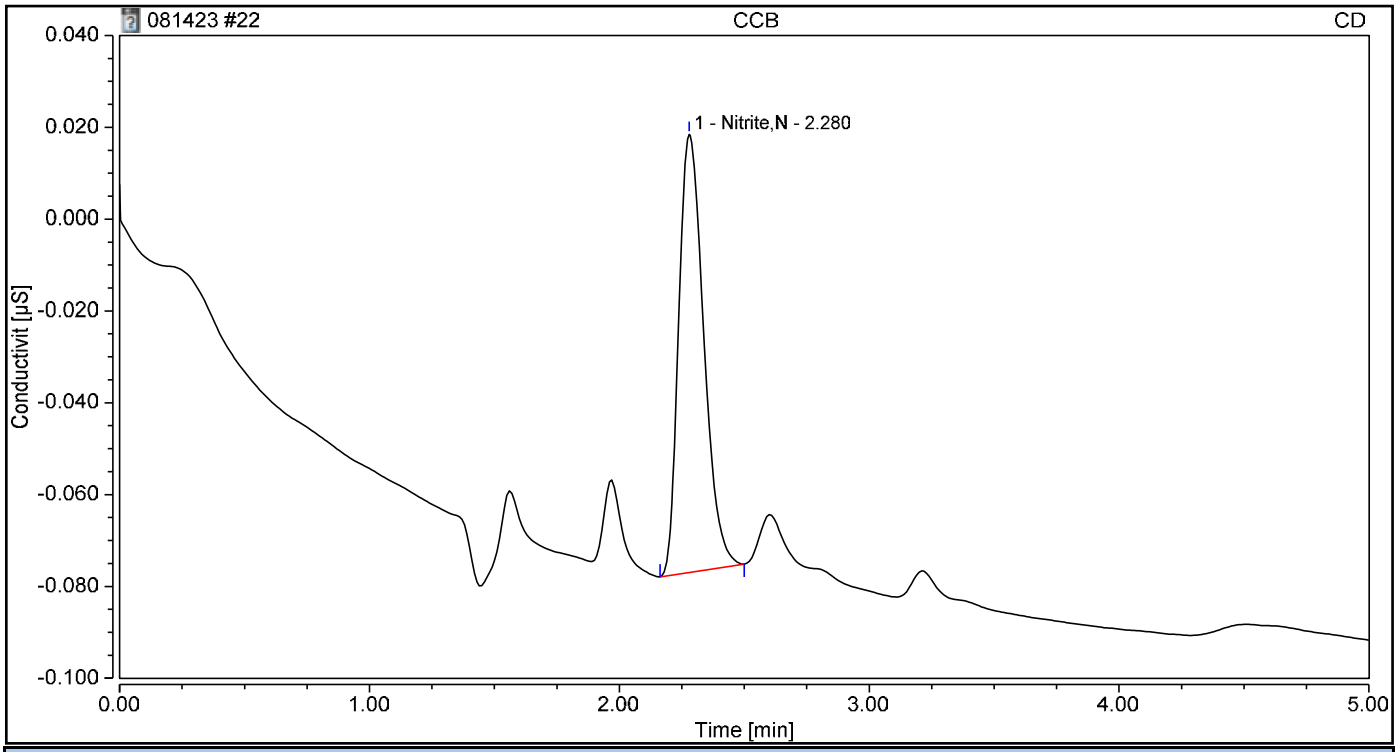
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.580	2.343	22.933	9.50	8.35	10.2342
2	Chloride	1.963	8.389	116.161	34.01	42.29	49.1137
3	Nitrite,N	2.247	3.219	32.700	13.05	11.91	9.5570
4	Sulfate	2.577	5.442	53.804	22.06	19.59	49.4651
5	Bromide	2.800	0.459	6.037	1.86	2.20	10.4113
6	Nitrate	3.157	3.689	36.617	14.96	13.33	9.8941
7	Chlorate	3.363	0.330	3.748	1.34	1.36	9.0945
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.293	0.792	2.676	3.21	0.97	n.a.
Total:			**24.664**	**274.676**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 08:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

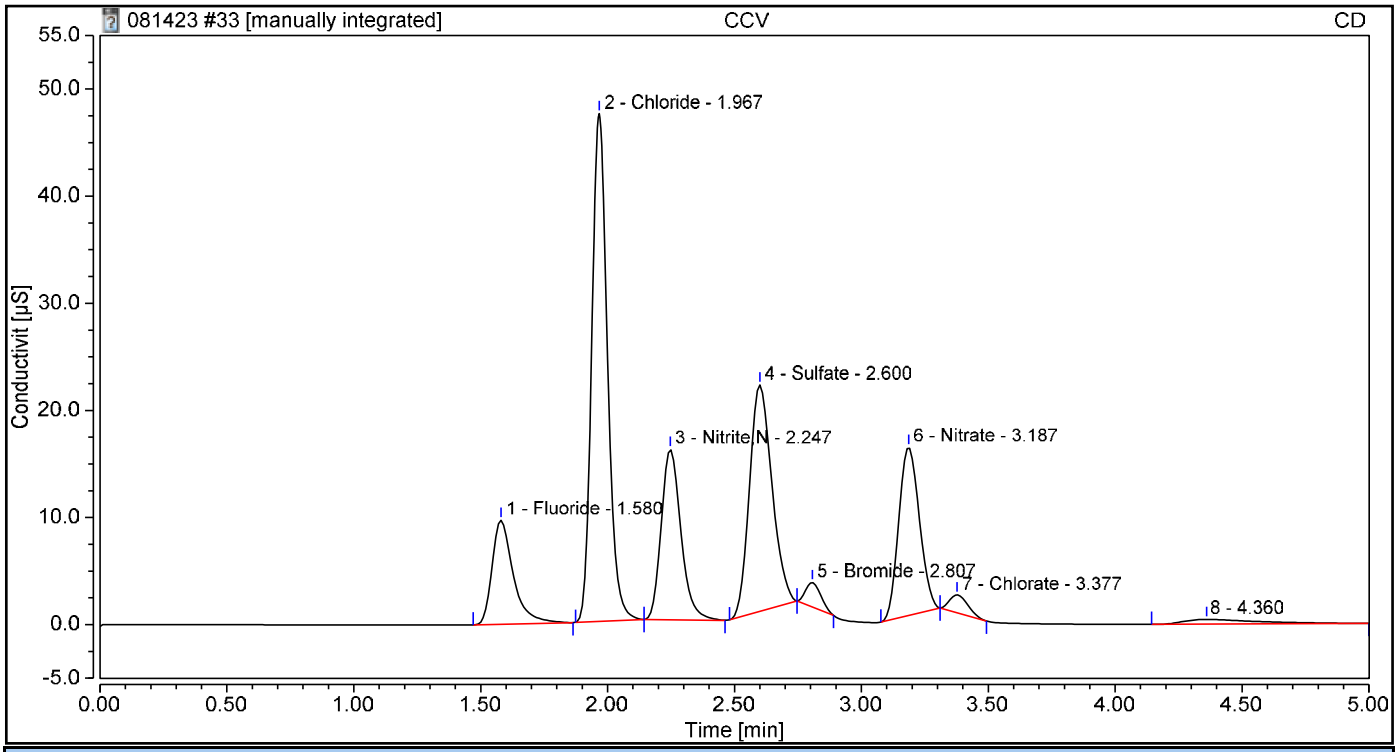
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Nitrite,N	2.280	0.011	0.095	100.00	100.00	0.0426
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.011**	**0.095**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**5.00**
Vial Number:	**R1**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 09:13**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

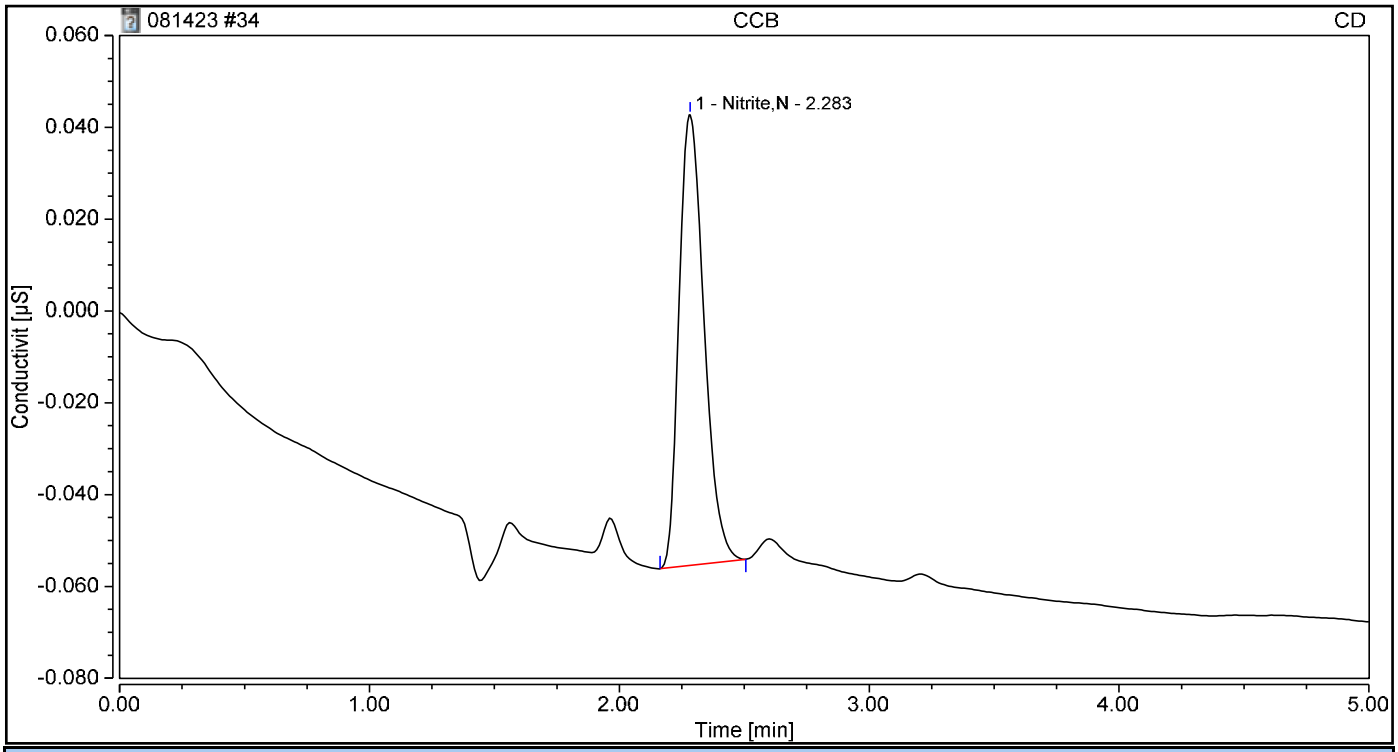
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.580	0.939	9.708	9.51	8.49	4.1442
2	Chloride	1.967	3.385	47.391	34.28	41.47	19.9292
3	Nitrite,N	2.247	1.435	15.918	14.53	13.93	3.9761
4	Sulfate	2.600	2.168	21.153	21.96	18.51	19.8566
5	Bromide	2.807	0.163	2.292	1.65	2.01	4.3312
6	Nitrate	3.187	1.486	15.709	15.05	13.75	4.0029
7	Chlorate	3.377	0.142	1.663	1.44	1.46	3.7057
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.360	0.155	0.447	1.57	0.39	n.a.
Total:			**9.875**	**114.281**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R6**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 09:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

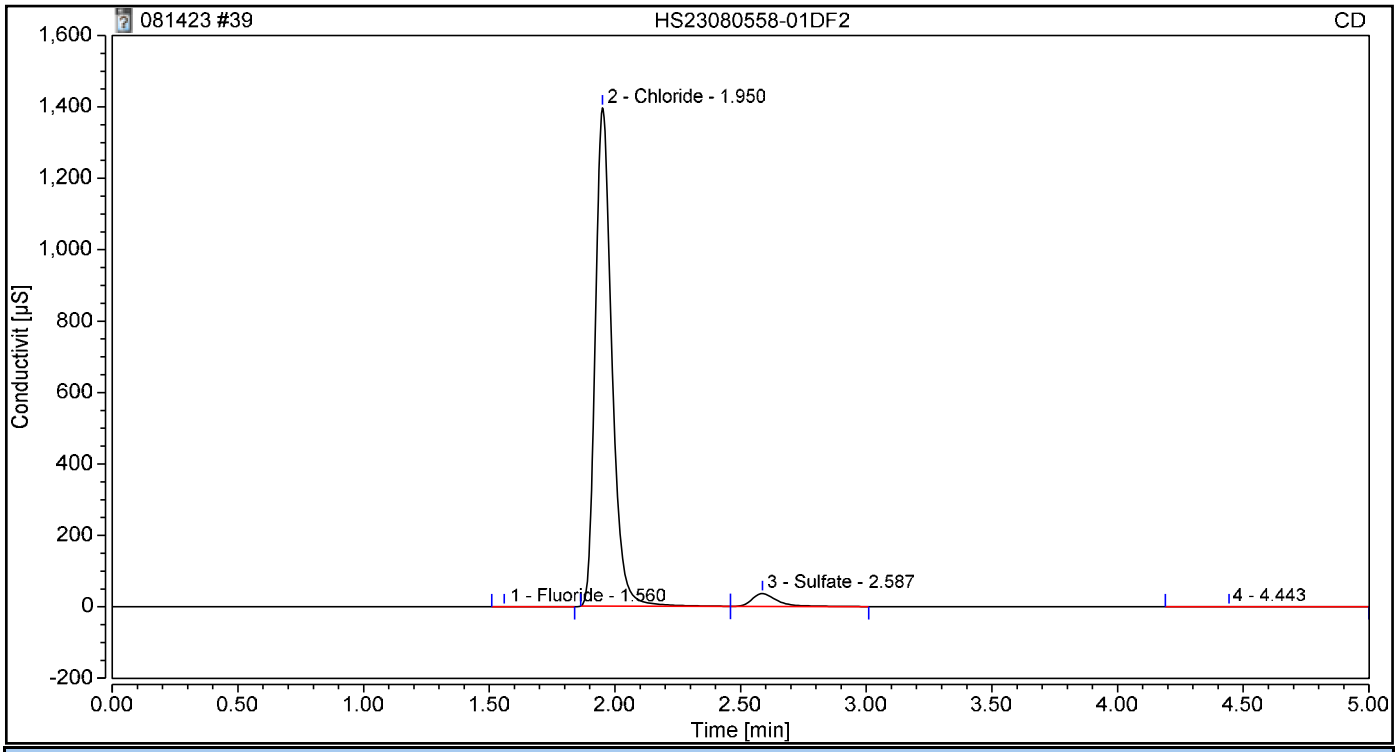
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Nitrite,N	2.283	0.011	0.098	100.00	100.00	0.0434
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.011**	**0.098**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS23080558-01DF2**	*Run Time (min):*	**5.00**
Vial Number:	**RC7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**2.0000**
Injection Date/Time:	**14/Aug/23 10:05**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

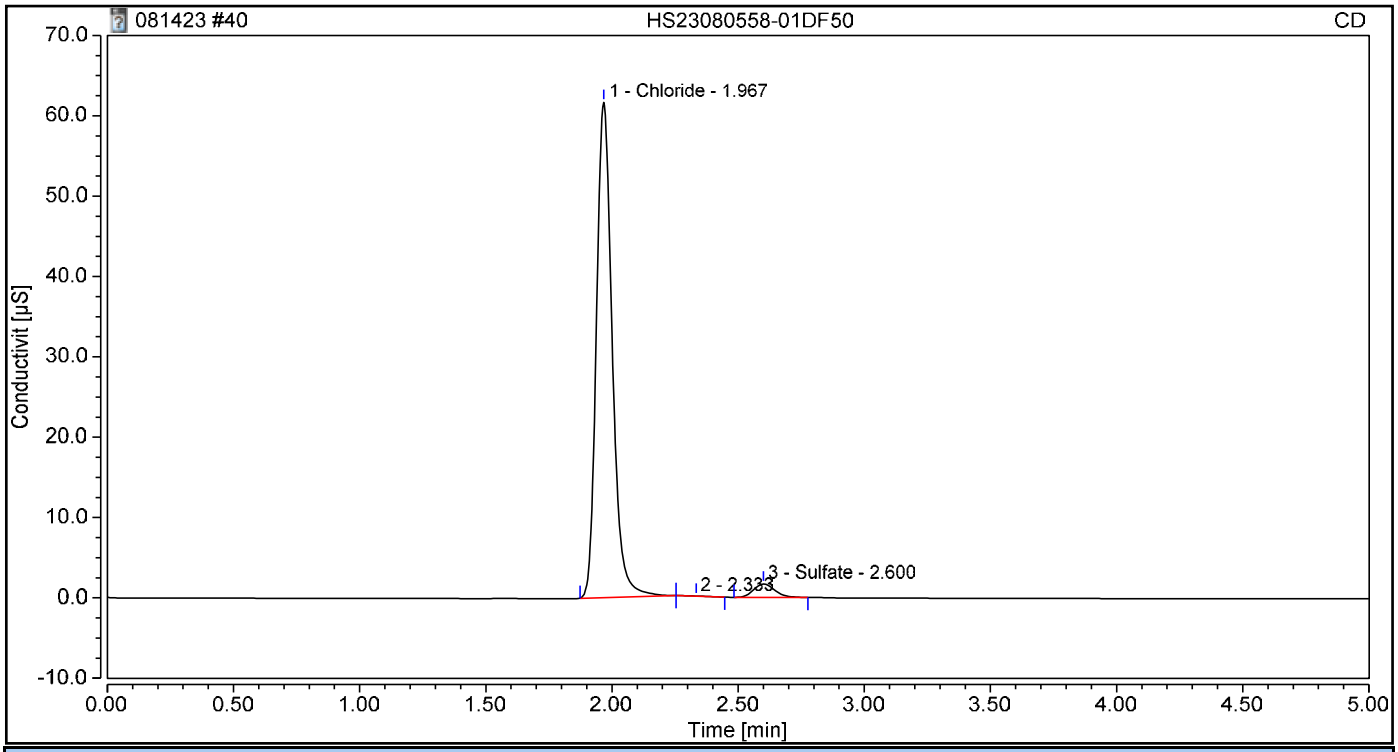
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.560	0.007	0.132	0.01	0.01	0.1912
2	Chloride	1.950	106.525	1395.401	96.18	97.45	1242.9482
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	2.587	4.124	36.190	3.72	2.53	75.0919
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4		4.443	0.097	0.239	0.09	0.02	n.a.
Total:			**110.753**	**1431.962**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS23080558-01DF50**	*Run Time (min):*	**5.00**
Vial Number:	**RC8**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**50.0000**
Injection Date/Time:	**14/Aug/23 10:10**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

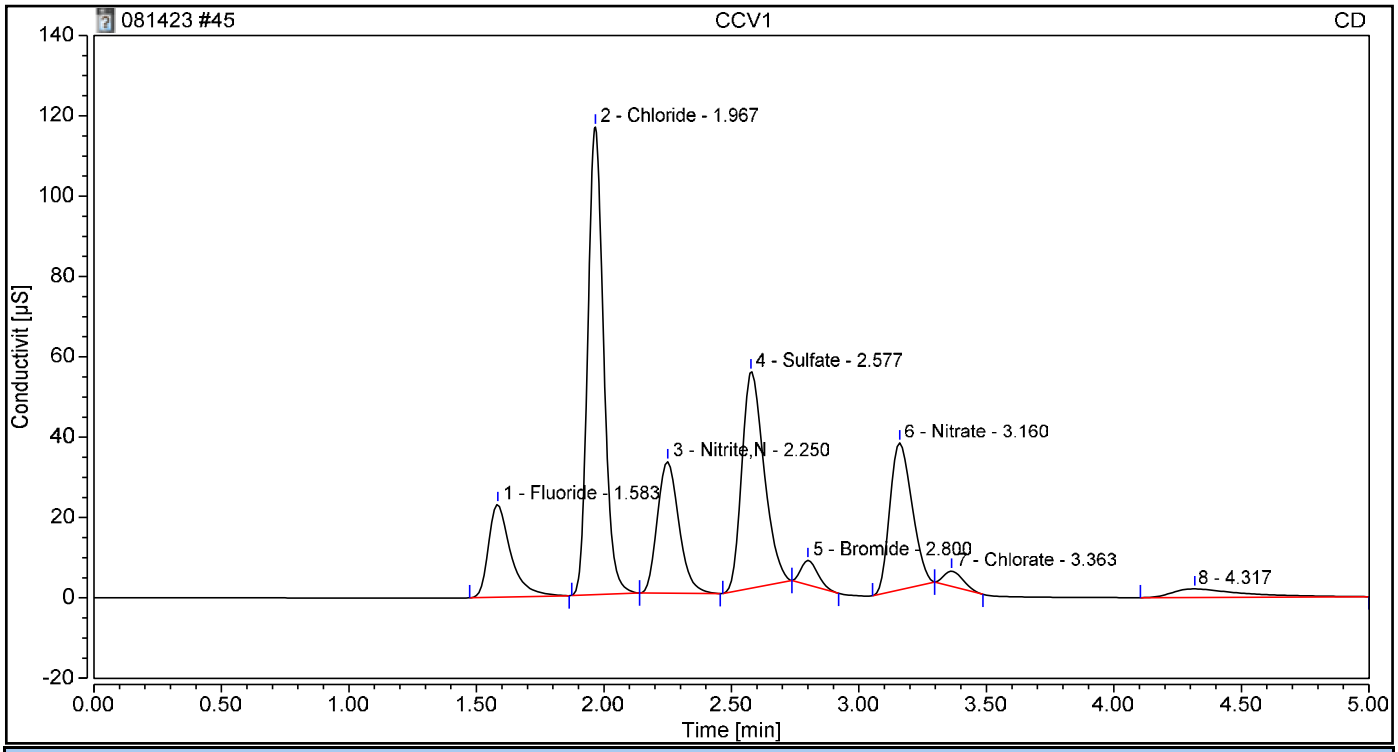
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.967	4.463	61.648	96.48	97.34	1310.7679
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		2.333	0.002	0.019	0.04	0.03	n.a.
3	Sulfate	2.600	0.161	1.665	3.48	2.63	85.1498
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**4.626**	**63.332**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV1**	*Run Time (min):*	**5.00**
Vial Number:	**R3**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 10:39**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

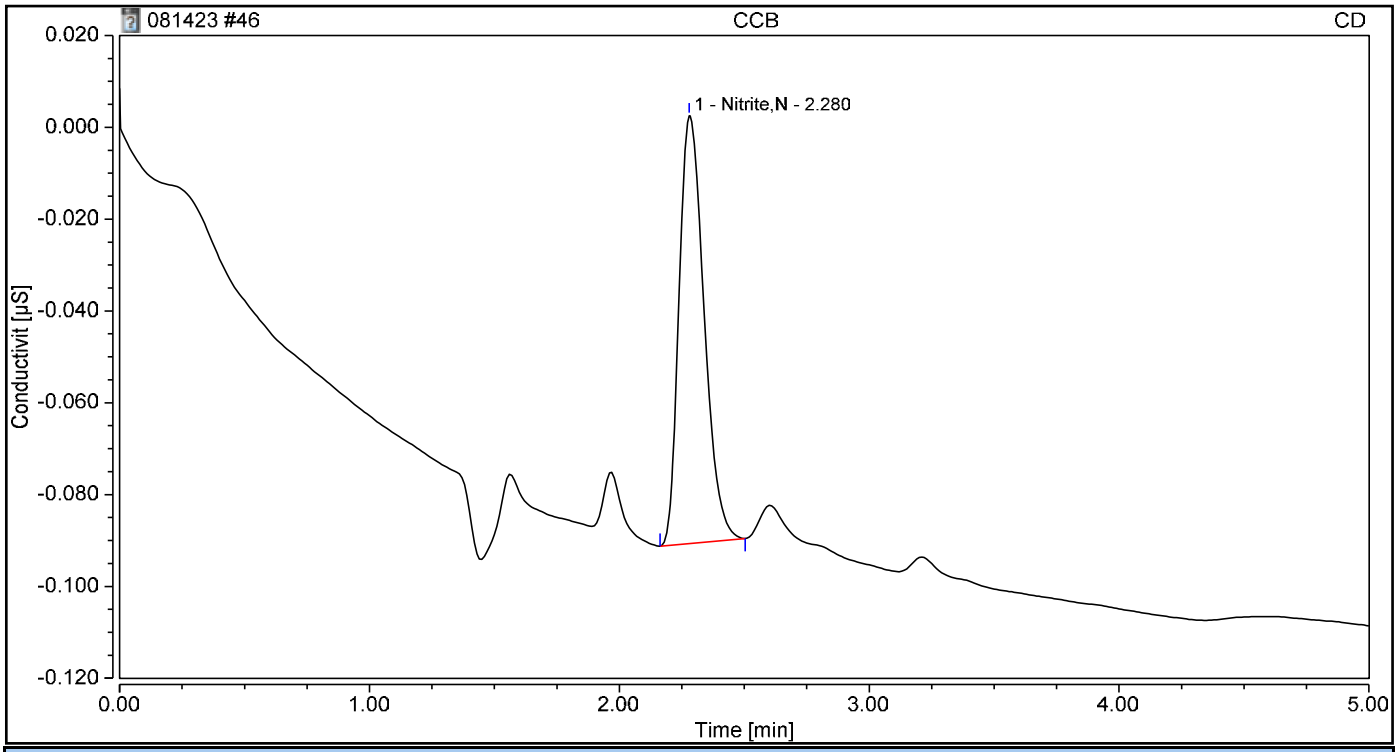
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.583	2.335	23.104	9.53	8.41	10.2012
2	Chloride	1.967	8.363	116.402	34.12	42.38	48.9618
3	Nitrite,N	2.250	3.219	32.765	13.13	11.93	9.5543
4	Sulfate	2.577	5.446	53.880	22.22	19.62	49.5057
5	Bromide	2.800	0.466	6.088	1.90	2.22	10.5284
6	Nitrate	3.160	3.679	36.544	15.01	13.31	9.8664
7	Chlorate	3.363	0.333	3.759	1.36	1.37	9.1945
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.317	0.672	2.122	2.74	0.77	n.a.
Total:			**24.513**	**274.664**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**14/Aug/23 10:51**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Nitrite,N	2.280	0.011	0.093	100.00	100.00	0.0419
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.011**	**0.093**	**100.00**	**100.00**	

HS23081039 Longhorn GW Treatment Plant
Weekly Samples Cover Page

ALS WO# HS23081039

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WorkOrder: HS23081039

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

31-Aug-2023

HS23081039 Longhorn GW Treatment Plant Weekly Samples Final

ALS WO# HS23081039

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August 23, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23081039**

Laboratory Results for: **Longhorn GW Treatment Plant Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 4 sample(s) on Aug 17, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
James Guin

ALS Houston, US Date: 23-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS23081039

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23081039-01	LH18/24-SP650_081623	Water		16-Aug-2023 13:00	17-Aug-2023 09:50	☐
HS23081039-02	LH18/24-SP650_081623_Between IX	Water		16-Aug-2023 13:00	17-Aug-2023 09:50	☐
HS23081039-03	LH18/24-SP650_081623_AIX	Water		16-Aug-2023 13:00	17-Aug-2023 09:50	☐
HS23081039-04	LH18/24-SP650_081623_BIX	Water		16-Aug-2023 13:00	17-Aug-2023 09:50	☐

ALS Houston, US Date: 23-Aug-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS23081039

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

WetChemistry by Method E350.3

Batch ID: R444435

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E415.1

Batch ID: R444399

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E365.3

Batch ID: R444233

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 23-Aug-23

Client: Bhate Environmental Associates, Inc.

ANALYTICAL REPORT

Project: Longhorn GW Treatment Plant Weekly Samples

WorkOrder:HS23081039

Sample ID: LH18/24-SP650_081623

Lab ID:HS23081039-01

Collection Date: 16-Aug-2023 13:00

Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
AMMONIA AS N BY E350.3(ISE)		**Method:E350.3**						Analyst: AB
Nitrogen, Ammonia (As N)	**380**	a	**5.0**	**10**	**10**	**mg/L**	50	21-Aug-2023 11:53
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: AB
Phosphorus, Total Orthophosphate (As P)	**6.43**	a	**0.100**	**0.250**	**0.250**	**mg/L**	10	17-Aug-2023 15:16
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: DW
Organic Carbon, Total	**43.2**	a	**0.500**	**1.00**	**1.00**	**mg/L**	1	18-Aug-2023 12:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 23-Aug-23

ANALYTICAL REPORT

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Sample ID: LH18/24-SP650_081623_Between IX
Collection Date: 16-Aug-2023 13:00

WorkOrder:HS23081039
Lab ID:HS23081039-02
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	23-Aug-2023 16:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 23-Aug-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: Longhorn GW Treatment Plant Weekly Samples WorkOrder:HS23081039

Sample ID: LH18/24-SP650_081623_AIX Lab ID:HS23081039-03

Collection Date: 16-Aug-2023 13:00 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	23-Aug-2023 16:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 23-Aug-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: Longhorn GW Treatment Plant Weekly Samples WorkOrder:HS23081039

Sample ID: LH18/24-SP650_081623_BIX Lab ID:HS23081039-04

Collection Date: 16-Aug-2023 13:00 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	23-Aug-2023 16:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 23-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23081039

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R444233 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS23081039-01	LH18/24-SP650_081623	16 Aug 2023 13:00			17 Aug 2023 15:16	10
Batch ID: R444399 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS23081039-01	LH18/24-SP650_081623	16 Aug 2023 13:00			18 Aug 2023 12:50	1
Batch ID: R444435 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS23081039-01	LH18/24-SP650_081623	16 Aug 2023 13:00			21 Aug 2023 11:53	50
Batch ID: R444676 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS23081039-02	LH18/24-SP650_081623_Between IX	16 Aug 2023 13:00			23 Aug 2023 16:14	1
HS23081039-03	LH18/24-SP650_081623_AIX	16 Aug 2023 13:00			23 Aug 2023 16:14	1
HS23081039-04	LH18/24-SP650_081623_BIX	16 Aug 2023 13:00			23 Aug 2023 16:14	1

ALS Houston, US Date: 23-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23081039

QC BATCH REPORT

Batch ID: R444233 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R444233** Units: **mg/L** Analysis Date: **17-Aug-2023 15:16**
Client ID: Run ID: **UV-2450_444233** SeqNo: **7496881** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.0250	0.0250								U

LCS Sample ID: **LCS-R444233** Units: **mg/L** Analysis Date: **17-Aug-2023 15:16**
Client ID: Run ID: **UV-2450_444233** SeqNo: **7496880** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.262	0.0250	0.25	0	105	85 - 115				

MS Sample ID: **HS23081039-01MS** Units: **mg/L** Analysis Date: **17-Aug-2023 15:16**
Client ID: **LH18/24-SP650_081623** Run ID: **UV-2450_444233** SeqNo: **7496883** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	8.98	0.250	2.5	6.43	102	80 - 120				

MSD Sample ID: **HS23081039-01MSD** Units: **mg/L** Analysis Date: **17-Aug-2023 15:16**
Client ID: **LH18/24-SP650_081623** Run ID: **UV-2450_444233** SeqNo: **7496882** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	8.59	0.250	2.5	6.43	86.4	80 - 120	8.98	4.44	20	

The following samples were analyzed in this batch: HS23081039-01

ALS Houston, US Date: 23-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23081039

QC BATCH REPORT

Batch ID: R444399 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-08182023** Units: **mg/L** Analysis Date: **18-Aug-2023 10:18**
Client ID: Run ID: **TOC_05_444399** SeqNo: **7500468** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U

LCS Sample ID: **LCS-08182023** Units: **mg/L** Analysis Date: **18-Aug-2023 11:14**
Client ID: Run ID: **TOC_05_444399** SeqNo: **7500469** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.832	1.00	10	0	98.3	85 - 115				

LCSD Sample ID: **LCSD-08182023** Units: **mg/L** Analysis Date: **18-Aug-2023 11:30**
Client ID: Run ID: **TOC_05_444399** SeqNo: **7500470** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.834	1.00	10	0	98.3	85 - 115	9.832	0.0203	20	

MS Sample ID: **HS23080988-01MS** Units: **mg/L** Analysis Date: **18-Aug-2023 12:03**
Client ID: Run ID: **TOC_05_444399** SeqNo: **7500472** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.1	1.00	10	16.8	93.0	80 - 120				

The following samples were analyzed in this batch: HS23081039-01

ALS Houston, US Date: 23-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23081039

QC BATCH REPORT

Batch ID: R444435 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R444435** Units: **mg/L** Analysis Date: **21-Aug-2023 11:53**
Client ID: Run ID: **WetChem_HS_444435** SeqNo: **7501212** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	0.20	0.20								U

LCS Sample ID: **LCS-R444435** Units: **mg/L** Analysis Date: **21-Aug-2023 11:53**
Client ID: Run ID: **WetChem_HS_444435** SeqNo: **7501211** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	9.188	0.20	10	0	91.9	80 - 120				

MS Sample ID: **HS23081138-12MS** Units: **mg/L** Analysis Date: **21-Aug-2023 11:53**
Client ID: Run ID: **WetChem_HS_444435** SeqNo: **7501214** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	20.91	0.20	10	10.06	109	80 - 120				

MSD Sample ID: **HS23081138-12MSD** Units: **mg/L** Analysis Date: **21-Aug-2023 11:53**
Client ID: Run ID: **WetChem_HS_444435** SeqNo: **7501213** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	20.99	0.20	10	10.06	109	80 - 120	20.91	0.363	20	

The following samples were analyzed in this batch: HS23081039-01

ALS Houston, US Date: 23-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS23081039**

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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 23-Aug-23

Sample Receipt Checklist

Work Order ID: HS23081039 **Date/Time Received:** 17-Aug-2023 09:50

Client Name: Bhate Environmental **Received by:** Malcolm Burleson

Completed By: /S/ Belinda Gomez (eSignature) 17-Aug-2023 12:24 (Date/Time) **Reviewed by:** /S/ Nieka.Carson (eSignature) 17-Aug-2023 15:14 (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):	3.6uc/3.5c	ir31	
Cooler(s)/Kit(s):	49972		
Date/Time sample(s) sent to storage:	8/17/23 1220		
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:

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210 Houston, TX. 77099 (281) 530-5656 ATTN: Dane Wacasey

Page 1 of 1

Project: BHATE
LONGHORN ARMY AMMN. PLANT (LHAAP)
GROUNDWATER TREATMENT PLANT (GWTP)
KARNACK, TEXAS

Project No. JVPCIBH.0001

Job: GROUNDWATER TREATMENT PLANT WEEKLY SAMPLES

Prepared By: Scott Beesinger

P.O. Number

HS23081039

Bhate Environmental Associates, Inc.
Longhorn GW Treatment Plant Weekly Samples

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: AMMONIA-N	TOTAL ORGANIC CARBON	ORTHO-PHOSPHATE	PERCHLORATE	Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_081623	Water	08/16/23 / 13:00		3	X	X			H2SO4	
LH18/24-SP650_081623	Water	08/16/23 / 13:00		1			X		NONE	
LH18/24–SP650_081623_Between IX	Water	08/16/23 / 13:00		1				X	NONE	
LH18/24-SP650_081623_AIX	Water	08/16/23 / 13:00		1				X	NONE	
LH18/24-Sp650_081623_BIX	Water	08/16/23 / 13:00		1				X		

Additional Remarks: **24 HR. TAT on Perchlorate Samples. Standard TAT on all other parameters**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	08/16/23	13:30		08/17/2023	0950						

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:

1831
3.1cwc
49972
-0.1C

(Word) S:\Lost\Forms\Chain of Custody - BiWeekly

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 8/18/22
Name: Scott Blessinger
Company: APTIM
Time: 1330

Seal Broken By:
Date:

(ALS)

ORIGIN ID:SGRA (903) 330-6193
SCOTT BLESSINGER
APTIM ENVIRONMENTAL & INFRASTRUCTURE
1203 W EAST GRAND AVE
PMB 202
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 200CT21
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3502
DIMS: 19x16x13 IN

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530 5656
REF: LHAAP- 69 -JB081652-RG
RMA:

FedEx Express

TRK# 5300 5224 2234
PRIORITY OVERNIGHT

XA SGRA
77099
TX-US
IAH

4738674 16Aug2021 GGGA 58105/7584/Cen8

August 18, 2023 Service Request No:E2300744

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

Laboratory Results for: HS23081039

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory August 17, 2023
For your reference, these analyses have been assigned our service request number **E2300744.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300744
Project:	HS23081039	**Date Received:**	08/17/23
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

Three samples were received for analysis at ALS Environmental in Houston on 08/17/23.

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:

EQ2300403: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

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:**E2300744
Project: HS23081039

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300744-001	LH18/24-SP650_081623_Between IX	8/16/2023	1300
E2300744-002	LH18/24-SP650_081623_AIX	8/16/2023	1300
E2300744-003	LH18/24-SP650_081623_BIX	8/16/2023	1300

Service Request Summary

Folder #: **E2300744**
Client Name: ALS Environmental - US
Project Name: HS23081039
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 08/17/23
Internal Due Date: 8/18/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23081039
EDD: No EDD Specified

3 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300744-001	LH18/24-SP650_081623_Between IX	Water	08/16/23 1300	**IV**
E2300744-002	LH18/24-SP650_081623_AIX	Water	08/16/23 1300	**IV**
E2300744-003	LH18/24-SP650_081623_BIX	Water	08/16/23 1300	**IV**

Service Request Summary

Folder #: **E2300744**
Client Name: ALS Environmental - US
Project Name: HS23081039
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 08/17/23
Internal Due Date: 8/18/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23081039
EDD: No EDD Specified

3 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

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.

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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
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L22-90	3/31/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
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	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

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E2300744 5
ALS Environmental - US
HS23081039

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **22745**

SUBCONTRACT TO:

RUSH

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:	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:	HS23081039
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23081039-02**	**LH18/24-SP650_081623_Between IX**	**Water**	**16 Aug 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			18 Aug 2023
2.	**HS23081039-03**	**LH18/24-SP650_081623_AIX**	**Water**	**16 Aug 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			18 Aug 2023
3.	**HS23081039-04**	**LH18/24-SP650_081623_BIX**	**Water**	**16 Aug 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			18 Aug 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: NR Date/Time:

Received By: Date/Time: 8.17.23 0947

Cooler ID(s): Temperature(s):

Cooler Receipt Form

ALS Environmental

Project Chemist JG

Client/Project ALS Thermometer ID IR41

Date/Time Received: 8-17-23 Initials: CG Date/Time Logged in: 8-17-23 Initials CG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ✓ Courier (ALS) ○ Client

2. Samples received in: ✓ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ✓ No If yes, how many and where?
Were they intact? ○ Yes ○ No ✓ N/A
Were they signed and dated? ○ Yes ○ No ✓ N/A

4. Packing Material: ○ Inserts ✓ Baggies ○ Bubble Wrap ○ Gel Packs ✓ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
-		8-17-23	1245	CG	1.7	☑
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ✓ Yes ○ No
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ✓ Yes ○ No
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ✓ Yes ○ No
9. Were appropriate bottles/containers and volumes received for the requested tests? ✓ Yes ○ No
10. Did sample labels and tags agree with custody documents? ✓ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label: E2300744 5
ALS Environmental - US
HS23081039



HS-HRMSCoolerReceipt R1.0

ALS Environmental - Houston HRMS

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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

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Phone (281)530-5656 Fax (281)530-5887
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Preparation Information Benchsheet

Prep Run#: 424977 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 8/17/23 13:11

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300744-001	LH18/24-SP650_081623_Between IX	.01	6850/ClO4 DOD			Water	10mL	
2	E2300744-002	LH18/24-SP650_081623_AIX	.01	6850/ClO4 DOD			Water	10mL	
3	E2300744-003	LH18/24-SP650_081623_BIX	.01	6850/ClO4 DOD			Water	10mL	
4	EQ2300403-01	MB		6850/ClO4			Liquid	10mL	
5	EQ2300403-02	LCS		6850/ClO4			Liquid	10mL	
6	EQ2300403-03	DLCS		6850/ClO4			Liquid	10mL	
7	K2309094-001	LGAC-INF-081423	.01	6850/ClO4			Water	10mL	
8	K2309094-002	LGAC-INT1-081423	.01	6850/ClO4			Water	10mL	
9	K2309094-003	LGAC-INT2-081423	.01	6850/ClO4			Water	10mL	
10	R2307250-005	2308071435B BLM-32-571	.01	6850/ClO4			Water	10mL	
11	R2307250-011	2308081426B BLM-32-632	.01	6850/ClO4			Water	10mL	
12	R2307325-004	2308100948A PL-12-570	.01	6850/ClO4			Water	10mL	
13	R2307325-009	2308101419A PL-12-800	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 230342 Logbook Ref: Perchlorate (1st Source) Expires On: 03/07/2024

EQ2300403-02	1.00µL	EQ2300403-02	1.00µL	EQ2300403-03	1.00µL	EQ2300403-03	1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 230372 Logbook Ref: Perchlorate Internal Standard Expires On: 04/30/2024

E2300744-001	100.00µL	E2300744-002	100.00µL	E2300744-003	100.00µL	EQ2300403-01	100.00µL	EQ2300403-01	100.00µL	EQ2300403-02	100.00µL
EQ2300403-02	100.00µL	EQ2300403-03	100.00µL	EQ2300403-03	100.00µL	K2309094-001	100.00µL	K2309094-002	100.00µL	K2309094-003	100.00µL
R2307250-005	100.00µL	R2307250-011	100.00µL	R2307325-004	100.00µL	R2307325-009	100.00µL				

Preparation Materials

Water HPLC Grade	HPLC water 5/18/23CG (229315)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)
6850 Luer-Lok Syringes	Luer-Lok Syringes (228117)				

Preparation Steps

Step: Preparation
Started: 8/17/23 13:11
Finished: 8/18/23 08:38
By: XMI
Comments

Preparation Information Benchsheet

Prep Run#: 424977
Team: Semivoa GCMS/XMI

Prep WorkFlow: GenExt28Day
Prep Method:

Status: Prepped
Prep Date/Time: 8/17/23 13:11

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Collected:**	8/16/23 1300
Sample Matrix:	Water	**Date Received:**	8/17/23
Sample Name:	LH18/24-SP650_081623_Between IX	**Units:**	µg/L
Lab Code:	E2300744-001	**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	**0.383**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:17	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Collected:**	8/16/23 1300
Sample Matrix:	Water	**Date Received:**	8/17/23
Sample Name:	LH18/24-SP650_081623_AIX	**Units:**	µg/L
Lab Code:	E2300744-002	**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	**0.341**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:22	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Collected:**	8/16/23 1300
Sample Matrix:	Water	**Date Received:**	8/17/23
Sample Name:	LH18/24-SP650_081623_BIX	**Units:**	µg/L
Lab Code:	E2300744-003	**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	**55.0**		0.500	0.250	0.125	5	8/17/23	8/18/23 09:28	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300403-01	**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	8/17/23	8/18/23 09:00	424977	814330	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23081039
Sample Matrix: Water

Service Request: E2300744
Date Analyzed: 8/18/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 424977

	Lab Control Sample EQ2300403-02			Duplicate Lab Control Sample EQ2300403-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.114	0.100	114	0.102	0.100	102	84 - 119	11	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300403-02	**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	**0.114**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:06	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300403-03	**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	**0.102**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:11	424977	814330	

HS23081039 Wetchem NIT-AMM_W- E350.3 - ISE

ALS WO# HS23081039

NIT AMM_W-6350.3 ISE

Logbook **32303**

ALS Laboratory Group

Ion Selective Electrode Logbook

Analyst: AB

Date: 05/21/23

Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F

Probe Calibration Date: 05/21/23

Cal Std ID: 322145005-10

Probe ID: NH3-8

Std Level		mV	Conc., mg/L:
STD 1 (mg/L):		0.202	123.7
STD 2 (mg/L):		1.205	95.0
STD 3 (mg/L):		5.208	60.8

Sodium Thiosulfate ID:

Std Level	mV	Conc., mg/L:
STD 4 (mg/L):	10.003	44.6
STD 5 (mg/L):	60.201	-1.1

LSC / MS Spike ID: 312060750A

CV Cal STD ID: 322145005

DPD Reagent ID: 312060613

ICAL Date & Slope: 99.7%/-58.5

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/–)	Comments
ICV		50mL	50mL		9.590			
ICB					0.002			
MBL/L					0.003			
LCS					9.188			
HS2308/039-01		5mL		50x	7.619			
689-01		50mL			31.917			
1088-01					4.612			
1088-02					2.769			
766-01					31.583			
838-01					34.658			
933-01					35.201			
994-01					35.591			
CCV					9.656			
CCB					0.008			
1033-07					9.222			
1033-08					5.086			
1033-09					3.530			
1033-10					23.567			
1138-06					6.204			
1138-07				~~10x~~	3.476			AB 05/21/23
1138-08				10x	9.026			
1138-09					8.578			
1138-10				10x	6.-	11.565		AB 05/21/23
CCV					9.439			
CCB					0.008			

Batch ID: 444435

Reported By: AB

Reviewed By: [illegible]

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NH3_AMM_W_E350.3 FSG

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Logbook **32303**

Ion Selective Electrode Logbook

Analyst:					Date:			
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F								
Probe Calibration Date:		Cal Std ID: con. page 88			Probe ID:			
Std Level		mV	Conc., mg/L:		Sodium Thiosulfate ID:			
STD 1 (mg/L):					Std Level	mV	Conc., mg/L:	
STD 2 (mg/L):					STD 4 (mg/L):			
STD 3 (mg/L):					STD 5 (mg/L):			
LSC / MS Spike ID:					ICAL Date & Slope:			
ICV Cal STD ID:								
DPD Reagent ID:								

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/ –)	Comments
HS230811138-11		50mL	50mL	10x	13393			
1138-12					10058			
1138-12MS					20.912			
1138-12MSD					20.988			
CCV					9.338			
CCB					0.008			
HS230804137-01		50mL	50mL		21.608			
CCV					9.516			
CCB					0.008			

Batch ID:	Reported By	Reviewed By:

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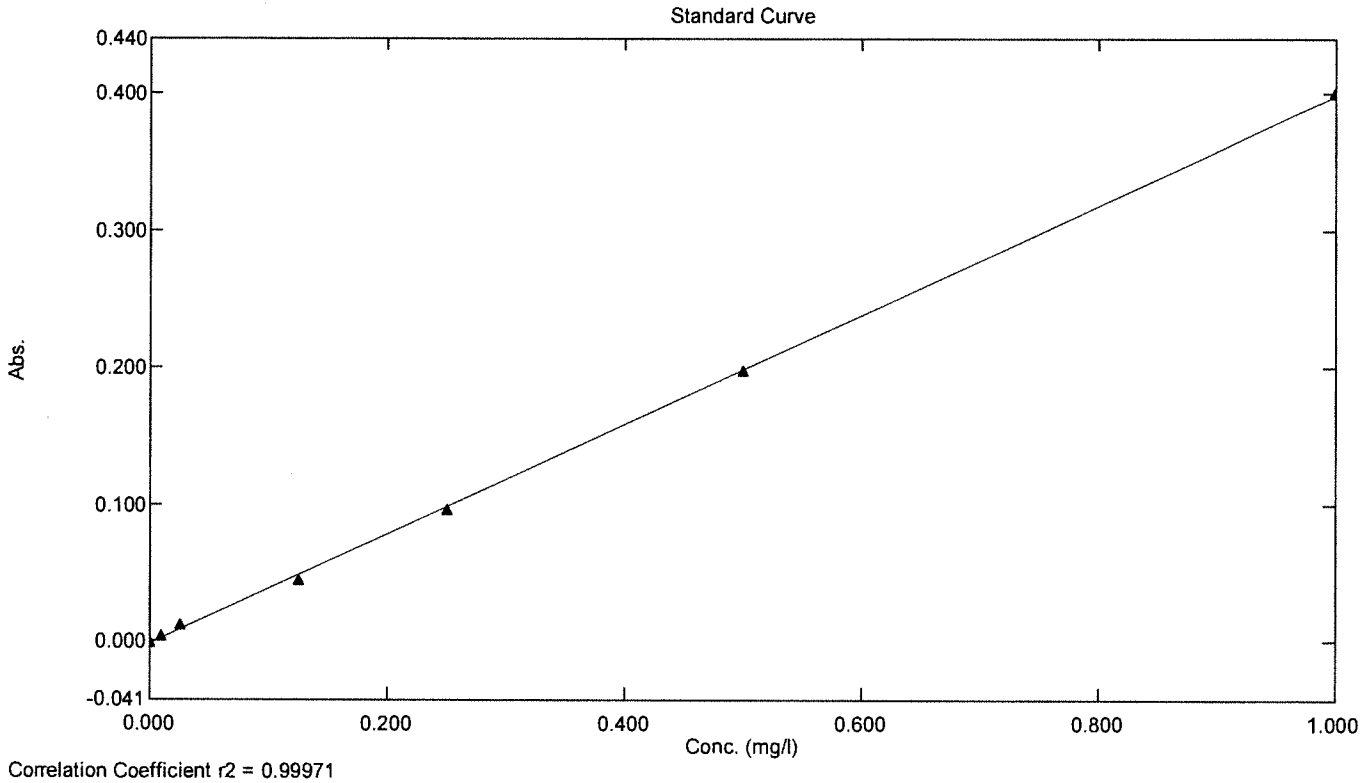
HS23081039 Wetchem P-ORTHO

ALS WO# HS23081039

Standard Table Report

08/17/2023 05:48:22 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO (365.3 METHOD)\2023\08172023_P_ORTHO_W.pho



Correlation Coefficient r2 = 0.99971

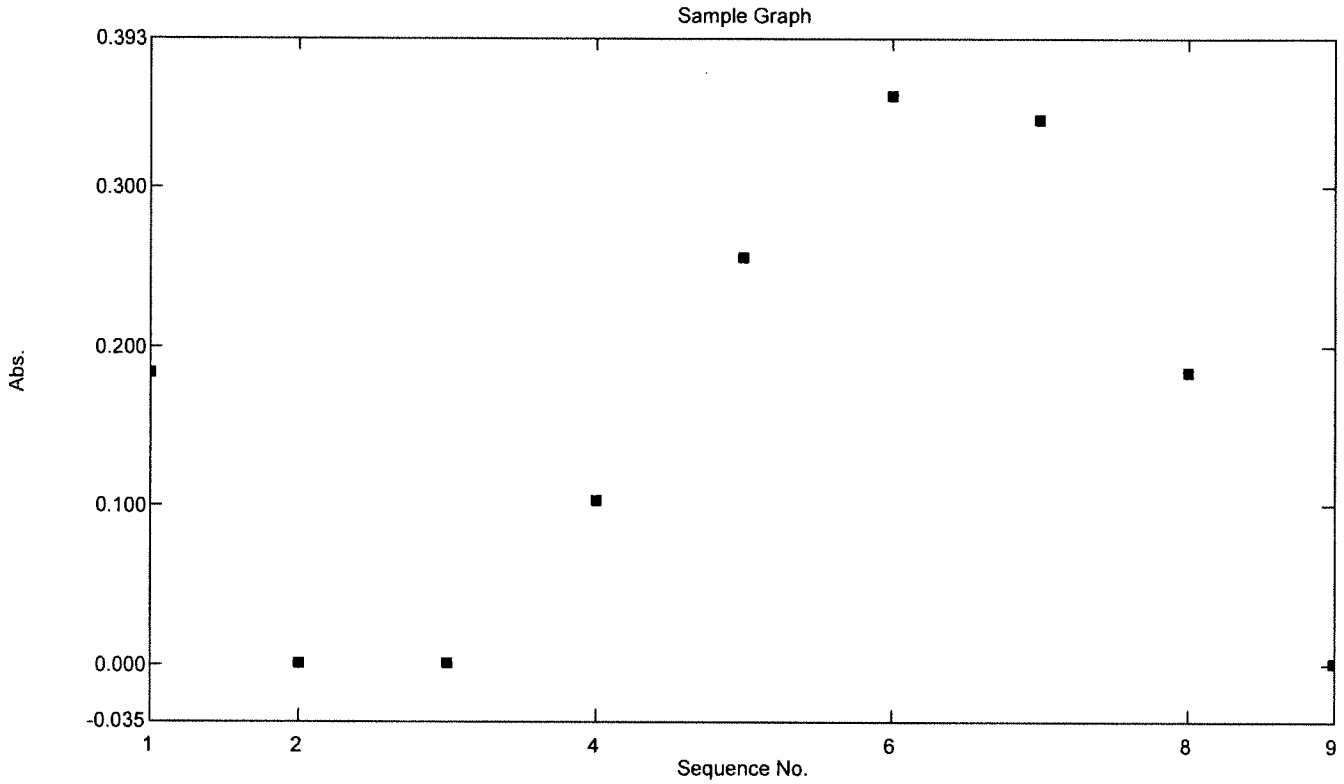
Standard Table

	Sample ID	Type	Ex	Conc	WL650.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.000	1.000	
2	STD2	Standard		0.010	0.005	1.000	
3	STD3	Standard		0.025	0.012	1.000	
4	STD4	Standard		0.125	0.045	1.000	
5	STD5	Standard		0.250	0.096	1.000	
6	STD6	Standard		0.500	0.197	1.000	
7	STD7	Standard		1.000	0.400	1.000	
8							

Sample Table Report

08/17/2023 05:48:24 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO (365.3 METHOD)\2023\08172023_P_ORTHO_W.pho



Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	08/17/2023	02:56:52 PM	0.463	0.184	322143009 WC-24
2	CCB	08/17/2023	02:57:02 PM	0.005	0.001	11N 3100606911
3	MBLK	08/17/2023	02:57:08 PM	0.005	0.001	A.MOLYBDATE 322143903
4	LCS	08/17/2023	02:57:19 PM	0.262	0.103	322143008 WC-23
5	HS23081039.01	08/17/2023	02:58:06 PM	0.643	0.256	DF=10X
6	HS23081039.01MS	08/17/2023	02:59:35 PM	0.898	0.357	DF=10X
7	HS23081039.01MSD	08/17/2023	03:00:25 PM	0.859	0.342	DF=10X
8	CCV2	08/17/2023	03:00:37 PM	0.462	0.183	A.ACID 322143902
9	CCB2	08/17/2023	03:00:47 PM	0.005	0.001	
10						

HS23081039 Wetchem TOC_W

ALS WO# HS23081039

C:\TOC-L\Data\2023_06_21_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Standard	NPOC	CALIBRATION		06_21_2023	1.000		
2	Unknown	NPOC	ICV		06_21_2023	1.000	NPOC:7.789mg/L	
3	Unknown	NPOC	ICB		06_21_2023	1.000	NPOC:0.1521mg/L	

C:\TOC-L\Data\2023_06_21_002.tlx

	Status	Date / Time	Vial
1	Completed	6/21/2023 6:	50, 51, 52, 5
2	Completed	6/21/2023 7:	57
3	Completed	6/21/2023 7:	58

TOC-Control L Report

2023_06_21_002.tlx

Instr.Information

Instrument Options: TOC/ASI/IC Unit/
Catalyst: Regular Sensitivity

Cal. Curve

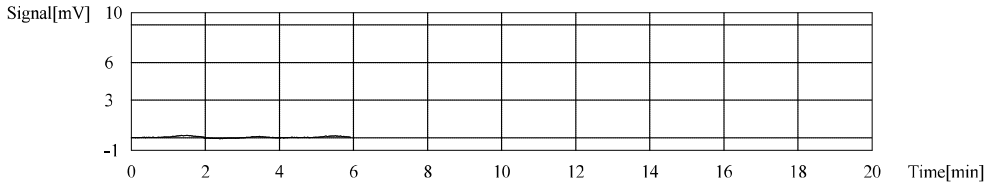
Sample Name: CALIBRATION
Sample ID:
Cal. Curve: 06_21_2023B.2023_06_21_17_09_19.cal
Status: Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.3456	50uL	1.000	*******		6/21/2023 5:18:00 PM
2	0.2872	50uL	1.000	*******		6/21/2023 5:20:19 PM
3	0.1081	50uL	1.000	*******		6/21/2023 5:22:27 PM

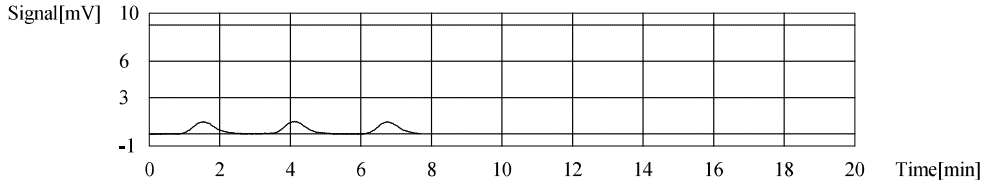
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 0.2470



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.170	50uL	1.000	*******		6/21/2023 5:31:50 PM
2	4.088	50uL	1.000	*******		6/21/2023 5:34:43 PM
3	3.977	50uL	1.000	*******		6/21/2023 5:37:25 PM

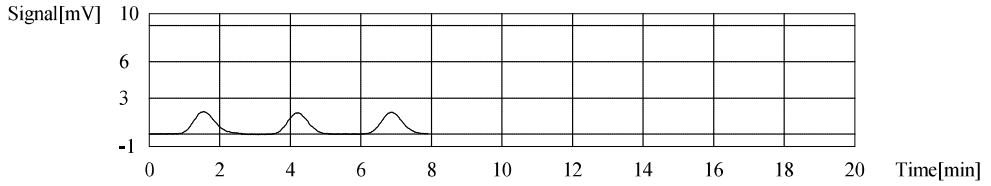
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 4.078



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.677	50uL	1.000	*******		6/21/2023 5:46:50 PM
2	7.596	50uL	1.000	*******		6/21/2023 5:49:44 PM
3	7.710	50uL	1.000	*******		6/21/2023 5:52:35 PM

Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 7.661



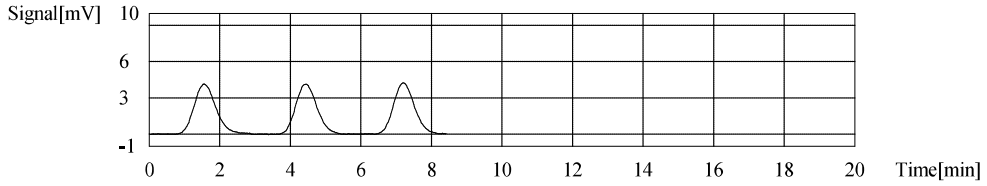
TOC-Control L Report

2023_06_21_002.tlx

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	17.78	50uL	1.000	*******		6/21/2023 6:02:16 PM
2	17.59	50uL	1.000	*******		6/21/2023 6:05:16 PM
3	17.72	50uL	1.000	*******		6/21/2023 6:08:17 PM

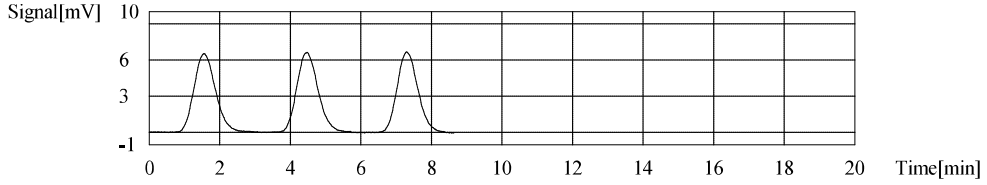
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 17.70



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	27.66	50uL	1.000	*******		6/21/2023 6:18:00 PM
2	27.76	50uL	1.000	*******		6/21/2023 6:21:02 PM
3	27.86	50uL	1.000	*******		6/21/2023 6:24:11 PM

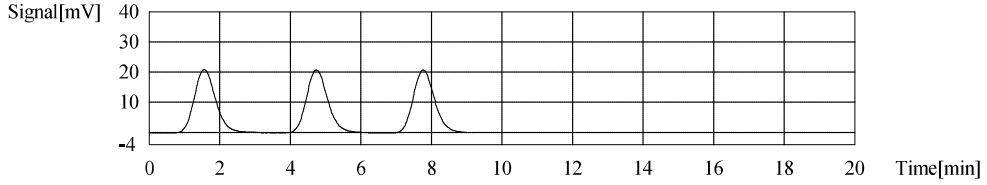
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 27.76



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	87.98	50uL	1.000	*******		6/21/2023 6:34:09 PM
2	87.22	50uL	1.000	*******		6/21/2023 6:37:26 PM
3	87.78	50uL	1.000	*******		6/21/2023 6:40:41 PM

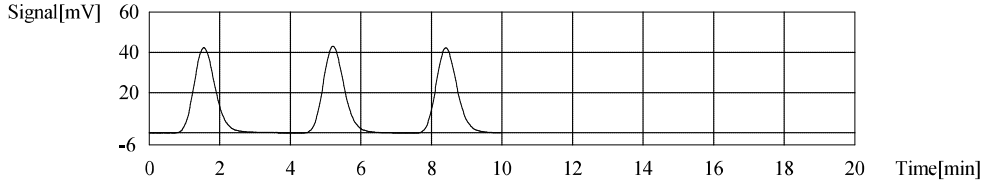
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 87.66



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	179.6	50uL	1.000	*******		6/21/2023 6:51:07 PM
2	180.8	50uL	1.000	*******		6/21/2023 6:54:35 PM
3	177.8	50uL	1.000	*******		6/21/2023 6:57:57 PM

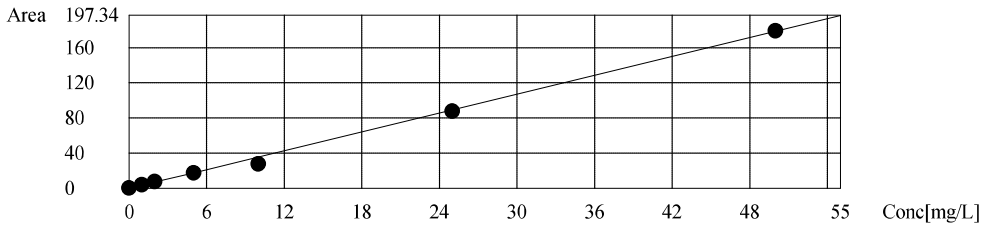
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 179.4



TOC-Control L Report

2023_06_21_002.tlx

Slope:	3.583
Intercept	0.000
r^2	0.9977
r	0.9989
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name: ICV
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

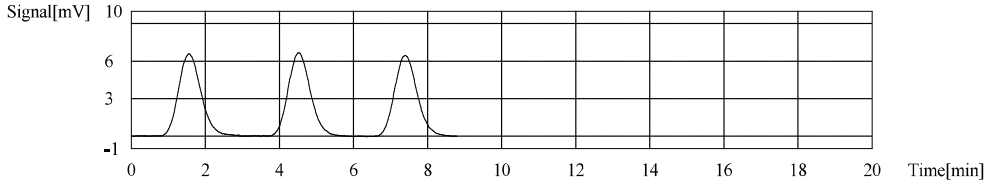
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.789mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	27.72	7.736mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:07:41 PM
2	28.05	7.829mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:10:48 PM
3	27.95	7.801mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:14:01 PM

Mean Area 27.91
Mean Conc. 7.789mg/L



Sample

Sample Name: ICB
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1521mg/L

1. Det

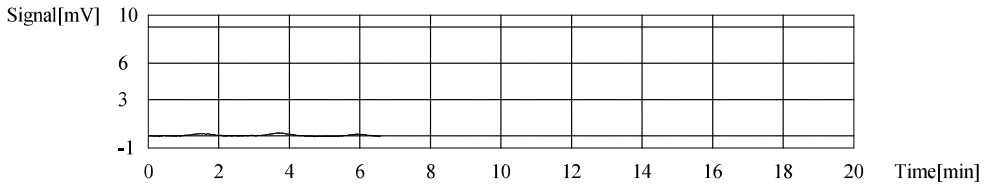
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4802	0.1340mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:23:00 PM
2	0.6284	0.1754mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:25:29 PM
3	0.5263	0.1469mg/L	50uL	1.000		06_21_2023B.2023_06_21_17_09_19.cal	6/21/2023 7:27:52 PM

TOC-Control L Report

2023_06_21_002.tlx

Mean Area	0.5450
Mean Conc.	0.1521mg/L



C:\TOC-L\Data\2023_08_18_001.tlx

	Sample Name	Sample ID	Origin	Result	Status	Date / Time	Vial
1	CCV	322145004	06_21_2023	NPOC:25.96mg/L	Completed	8/18/2023 9:52:	1
2	CCB		06_21_2023	NPOC:0.08069mg/L	Completed	8/18/2023 10:05	2
3	MBLK-08182023		06_21_2023	NPOC:0.06535mg/L	Completed	8/18/2023 10:18	3
4	LCS-08182023	3100606518	06_21_2023	NPOC:9.832mg/L	Completed	8/18/2023 11:14	4
5	LCSD-08182023		06_21_2023	NPOC:9.834mg/L	Completed	8/18/2023 11:30	5
6	HS23080988-01	TOC_W 5310B	06_21_2023	NPOC:16.80mg/L	Completed	8/18/2023 11:47	6
7	HS23080988-01MS		06_21_2023	NPOC:26.10mg/L	Completed	8/18/2023 12:03	7
8	HS23081078-01		06_21_2023	NPOC:6.643mg/L	Completed	8/18/2023 12:18	8
9	HS23081079-01		06_21_2023	NPOC:5.605mg/L	Completed	8/18/2023 12:34	9
10	HS23081039-01	TOC_W	06_21_2023	NPOC:43.17mg/L	Completed	8/18/2023 12:50	10
11	CCV	322145004	06_21_2023	NPOC:26.21mg/L	Completed	8/18/2023 1:07:	1
12	CCB		06_21_2023	NPOC:0.07363mg/L	Completed	8/18/2023 1:21:	2
13	CCV	322145004	TOC_W 906	NPOC:25.17mg/L	Completed	8/18/2023 1:44:	13
14	CCB		TOC_W 906	NPOC:0.3133mg/L	Completed	8/18/2023 2:00:	14
15	MBLK-08182023		TOC_W 906	NPOC:0.06407mg/L	Completed	8/18/2023 2:16:	3
16	LCS-08182023	3100606518	TOC_W 906	NPOC:9.685mg/L	Completed	8/18/2023 2:35:	4
17	LCSD-08182023	TOC_W 9060	TOC_W 906	NPOC:9.839mg/L	Completed	8/18/2023 2:54:	5
18	HS23081005-03		TOC_W 906	NPOC:11.91mg/L	Completed	8/18/2023 3:13:	11
19	HS23081005-03MS		TOC_W 906	NPOC:22.43mg/L	Completed	8/18/2023 3:33:	12
20	CCV	322145004	TOC_W 906	NPOC:25.28mg/L	Completed	8/18/2023 3:53:	13
21	CCB		TOC_W 906	NPOC:0.3170mg/L	Completed	8/18/2023 4:10:	14

TOC-Control L Report

2023_08_18_001.tlx

Instr.Information

Instrument Options: TOC/ASI/IC Unit/
Catalyst: Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 322145004
Origin: 06_21_2023B.cal
Status: Completed
Chk. Result

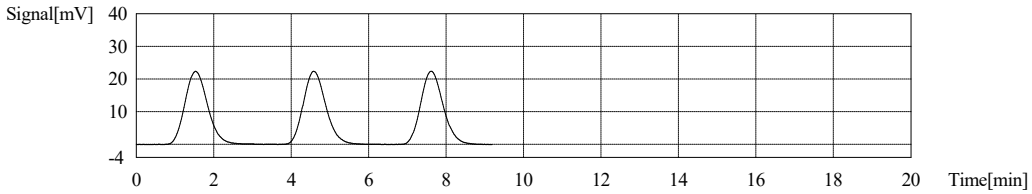
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.96mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.66	25.94mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 9:45:58 AM
2	91.44	25.88mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 9:49:15 AM
3	92.13	26.07mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 9:52:36 AM

Mean Area 91.74
Mean Conc. 25.96mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 06_21_2023B.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08069mg/L

1. Det

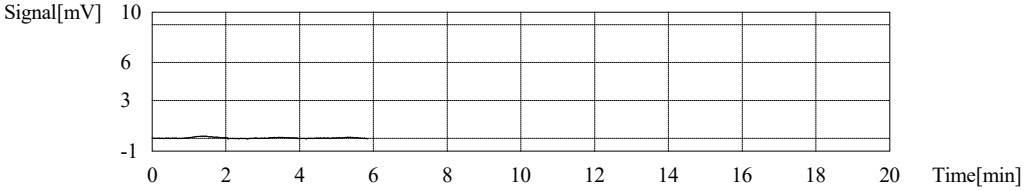
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5499	0.1556mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 10:01:25 AM
2	0.3054	0.08643mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 10:03:33 AM
3	0.000	0.000mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 10:05:41 AM

TOC-Control L Report

2023_08_18_001.tlx

Mean Area 0.2851
Mean Conc. 0.08069mg/L



Sample

Sample Name: MBLK-08182023
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

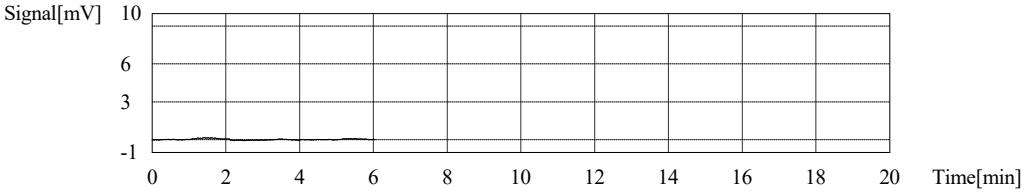
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06535mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4498	0.1273mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 10:14:33 AM
2	0.000	0.000mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 10:16:42 AM
3	0.2429	0.06874mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 10:18:59 AM

Mean Area 0.2309
Mean Conc. 0.06535mg/L



Sample

Sample Name: LCS-08182023
Sample ID: 3100606518
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.832mg/L

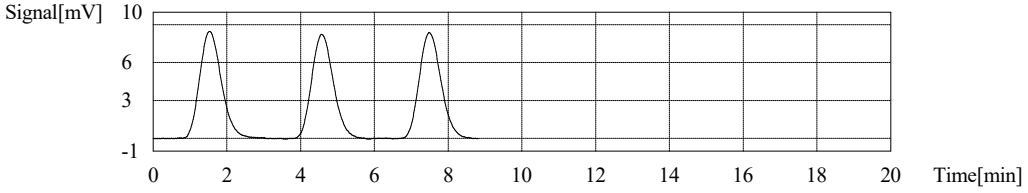
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.98	9.900mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 11:08:16 AM
2	34.26	9.696mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 11:11:26 AM
3	34.98	9.900mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 11:14:33 AM

TOC-Control L Report

Mean Area 34.74
Mean Conc. 9.832mg/L



Sample

Sample Name: LCSD-08182023
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

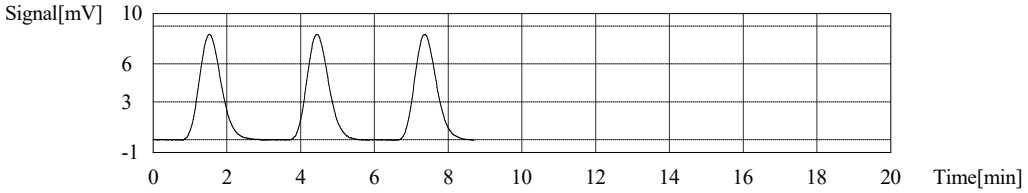
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.834mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.69	9.818mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 11:24:14 AM
2	34.71	9.823mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 11:27:24 AM
3	34.84	9.860mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 11:30:29 AM

Mean Area 34.75
Mean Conc. 9.834mg/L



Sample

Sample Name: HS23080988-01
Sample ID: TOC_W 5310B
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:16.80mg/L

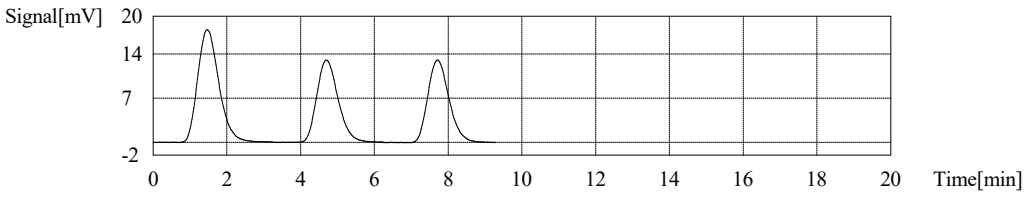
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.43	20.50mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 11:40:29 AM
2	52.81	14.95mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 11:43:44 AM
3	52.89	14.97mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 11:47:01 AM

TOC-Control L Report

Mean Area 59.38
Mean Conc. 16.80mg/L



Sample

Sample Name: HS23080988-01MS
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

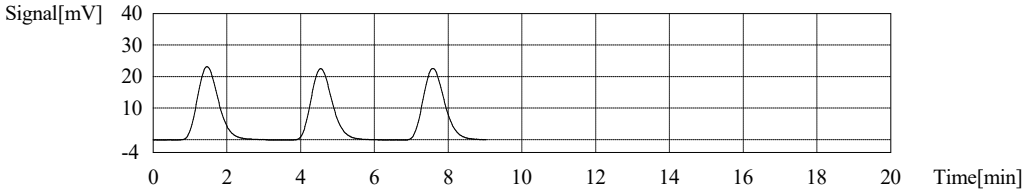
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.10mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	93.13	26.36mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 11:56:52 AM
2	91.20	25.81mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 12:00:08 PM
3	92.34	26.13mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 12:03:18 PM

Mean Area 92.22
Mean Conc. 26.10mg/L



Sample

Sample Name: HS23081039-01
Sample ID: TOC_W
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:43.17mg/L

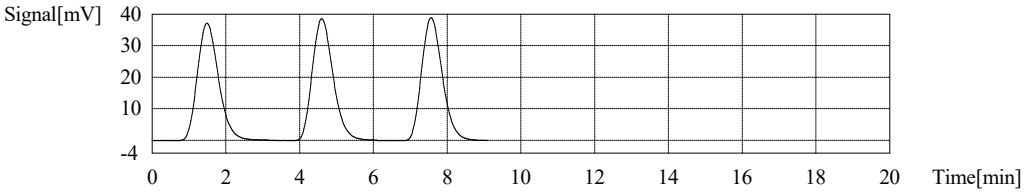
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	149.9	42.42mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 12:44:07 PM
2	153.5	43.44mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 12:47:19 PM
3	154.2	43.64mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 12:50:35 PM

TOC-Control L Report

Mean Area 152.5
Mean Conc. 43.17mg/L



Sample

Sample Name: CCV
Sample ID: 322145004
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

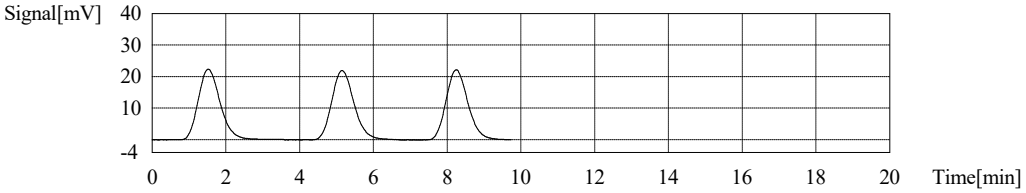
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.21mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	93.10	26.35mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 1:01:05 PM
2	92.63	26.22mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 1:04:30 PM
3	92.11	26.07mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 1:07:47 PM

Mean Area 92.61
Mean Conc. 26.21mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 06_21_2023B.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07363mg/L

1. Det

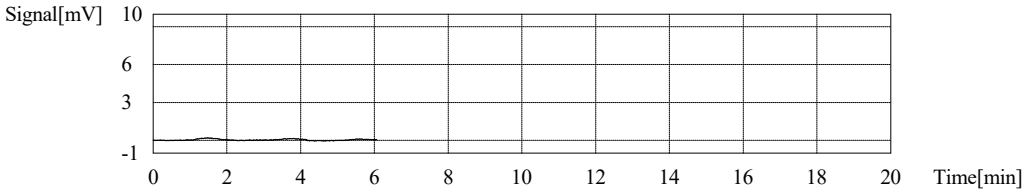
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6588	0.1865mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 1:16:48 PM
2	0.000	0.000mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 1:18:56 PM
3	0.1217	0.03444mg/L	50uL	1.000		06_21_2023B.2023_06_22_09_52_42.cal	8/18/2023 1:21:06 PM

TOC-Control L Report

2023_08_18_001.tlx

Mean Area	0.2602
Mean Conc.	0.07363mg/L



HS23081039-E2300744 Perchlorate Report
Level IV

ALS WO# HS23081039

August 18, 2023 Service Request No:E2300744

James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099

Laboratory Results for: HS23081039

Dear James,

Enclosed are the results of the sample(s) submitted to our laboratory August 17, 2023
For your reference, these analyses have been assigned our service request number **E2300744.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300744
Project:	HS23081039	**Date Received:**	08/17/23
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

Three samples were received for analysis at ALS Environmental in Houston on 08/17/23.

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:

EQ2300403: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

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:**E2300744
Project: HS23081039

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300744-001	LH18/24-SP650_081623_Between IX	8/16/2023	1300
E2300744-002	LH18/24-SP650_081623_AIX	8/16/2023	1300
E2300744-003	LH18/24-SP650_081623_BIX	8/16/2023	1300

Service Request Summary

Folder #: **E2300744**
Client Name: ALS Environmental - US
Project Name: HS23081039
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 08/17/23
Internal Due Date: 8/18/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23081039
EDD: No EDD Specified

3 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300744-001	LH18/24-SP650_081623_Between IX	Water	08/16/23 1300	**IV**
E2300744-002	LH18/24-SP650_081623_AIX	Water	08/16/23 1300	**IV**
E2300744-003	LH18/24-SP650_081623_BIX	Water	08/16/23 1300	**IV**

Service Request Summary

Folder #: **E2300744**
Client Name: ALS Environmental - US
Project Name: HS23081039
Project Number:

Report To: James Guin
ALS Environmental - US
10450 Stancliff Rd #210
Houston, TX 77099
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number:
E-mail: james.guin@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 08/17/23
Internal Due Date: 8/18/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23081039
EDD: No EDD Specified

3 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

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
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L22-90	3/31/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
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	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-22	11/14/2023

ALS

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

E2300744 5
ALS Environmental - US
HS23081039

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Houston, TX 77099
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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **22745**

SUBCONTRACT TO:

RUSH

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:	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:	HS23081039
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23081039-02**	**LH18/24-SP650_081623_Between IX**	**Water**	**16 Aug 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			18 Aug 2023
2.	**HS23081039-03**	**LH18/24-SP650_081623_AIX**	**Water**	**16 Aug 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			18 Aug 2023
3.	**HS23081039-04**	**LH18/24-SP650_081623_BIX**	**Water**	**16 Aug 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			18 Aug 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: NR Date/Time:

Received By: Date/Time: 8.17.23 0947

Cooler ID(s): Temperature(s):

Cooler Receipt Form

ALS Environmental

Project Chemist JG

Client/Project ALS

Thermometer ID IR41

Date/Time Received: 8-17-23 Initials: CG

Date/Time Logged in: 8-17-23 Initials CG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ✓ ALS Courier ○ Client

2. Samples received in: ✓ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ✓ No

Were they intact? ○ Yes ○ No ✓ N/A

Were they signed and dated? ○ Yes ○ No ✓ N/A

If yes, how many and where?

4. Packing Material: ○ Inserts ✓ Baggies ○ Bubble Wrap ○ Gel Packs ✓ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
-		8-17-23	1249	CG	1.7	✓
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ✓ Yes ○ No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ✓ Yes ○ No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ✓ Yes ○ No

9. Were appropriate bottles/containers and volumes received for the requested tests? ✓ Yes ○ No

10. Did sample labels and tags agree with custody documents? ✓ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label: E2300744 5

ALS Environmental - US HS23081039



HS-HRMSCoolerReceipt R1.0

ALS Environmental - Houston HRMS

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#: 424977 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 8/17/23 13:11

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300744-001	LH18/24-SP650_081623_Between IX	.01	6850/ClO4 DOD			Water	10mL	
2	E2300744-002	LH18/24-SP650_081623_AIX	.01	6850/ClO4 DOD			Water	10mL	
3	E2300744-003	LH18/24-SP650_081623_BIX	.01	6850/ClO4 DOD			Water	10mL	
4	EQ2300403-01	MB		6850/ClO4			Liquid	10mL	
5	EQ2300403-02	LCS		6850/ClO4			Liquid	10mL	
6	EQ2300403-03	DLCS		6850/ClO4			Liquid	10mL	
7	K2309094-001	LGAC-INF-081423	.01	6850/ClO4			Water	10mL	
8	K2309094-002	LGAC-INT1-081423	.01	6850/ClO4			Water	10mL	
9	K2309094-003	LGAC-INT2-081423	.01	6850/ClO4			Water	10mL	
10	R2307250-005	2308071435B BLM-32-571	.01	6850/ClO4			Water	10mL	
11	R2307250-011	2308081426B BLM-32-632	.01	6850/ClO4			Water	10mL	
12	R2307325-004	2308100948A PL-12-570	.01	6850/ClO4			Water	10mL	
13	R2307325-009	2308101419A PL-12-800	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 230342 Logbook Ref: Perchlorate (1st Source) Expires On: 03/07/2024

EQ2300403-02	1.00µL	EQ2300403-02	1.00µL	EQ2300403-03	1.00µL	EQ2300403-03	1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 230372 Logbook Ref: Perchlorate Internal Standard Expires On: 04/30/2024

E2300744-001	100.00µL	E2300744-002	100.00µL	E2300744-003	100.00µL	EQ2300403-01	100.00µL	EQ2300403-01	100.00µL	EQ2300403-02	100.00µL
EQ2300403-02	100.00µL	EQ2300403-03	100.00µL	EQ2300403-03	100.00µL	K2309094-001	100.00µL	K2309094-002	100.00µL	K2309094-003	100.00µL
R2307250-005	100.00µL	R2307250-011	100.00µL	R2307325-004	100.00µL	R2307325-009	100.00µL				

Preparation Materials

Water HPLC Grade	HPLC water 5/18/23CG (229315)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)
6850 Luer-Lok Syringes	Luer-Lok Syringes (228117)				

Preparation Steps

Step: Preparation
Started: 8/17/23 13:11
Finished: 8/18/23 08:38
By: XMI
Comments

Preparation Information Benchsheet

Prep Run#: 424977
Team: Semivoa GCMS/XMI

Prep WorkFlow: GenExt28Day
Prep Method:

Status: Prepped
Prep Date/Time: 8/17/23 13:11

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:**	E2300744
Project:	HS23081039	**Date Collected:**	8/16/23 1300
Sample Matrix:	Water	**Date Received:**	8/17/23
Sample Name:	LH18/24-SP650_081623_Between IX	**Units:**	µg/L
Lab Code:	E2300744-001	**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	**0.383**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:17	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Collected:**	8/16/23 1300
Sample Matrix:	Water	**Date Received:**	8/17/23
Sample Name:	LH18/24-SP650_081623_AIX	**Units:**	µg/L
Lab Code:	E2300744-002	**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	**0.341**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:22	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Collected:**	8/16/23 1300
Sample Matrix:	Water	**Date Received:**	8/17/23
Sample Name:	LH18/24-SP650_081623_BIX	**Units:**	µg/L
Lab Code:	E2300744-003	**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	**55.0**		0.500	0.250	0.125	5	8/17/23	8/18/23 09:28	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300403-01	**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	8/17/23	8/18/23 09:00	424977	814330	

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
Project: HS23081039
Sample Matrix: Water

Service Request: E2300744
Date Analyzed: 8/18/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 424977

	Lab Control Sample EQ2300403-02			Duplicate Lab Control Sample EQ2300403-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.114	0.100	114	0.102	0.100	102	84 - 119	11	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300403-02	**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	**0.114**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:06	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300403-03	**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	**0.102**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:11	424977	814330	

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

20230802

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: KN

ICAL Date: 8/2/2023
Cal. Std. xp: 03/07/2024
ICAL ID: EC2300012

Mobile Phases : A:20mM ammonium acetate in water 230388 **B:**Acetonitrile 229152

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	IB		2230802-001	Perchlorate6850c.lcm	1x		8/2/2023 13:05
2	IB		2230802-002	Perchlorate6850c.lcm	1x		8/2/2023 13:11
3	Perchlorate ICAL 1		2230802-003	Perchlorate6850c.lcm	1x	230373	8/2/2023 13:17
4	Perchlorate ICAL 2		2230802-004	Perchlorate6850c.lcm	1x	230375	8/2/2023 13:23
5	Perchlorate ICAL 3		2230802-005	Perchlorate6850c.lcm	1x	230376	8/2/2023 13:28
6	Perchlorate ICAL 4		2230802-006	Perchlorate6850c.lcm	1x	230377	8/2/2023 13:34
7	Perchlorate ICAL 5		2230802-007	Perchlorate6850c.lcm	1x	230378	8/2/2023 13:39
8	Perchlorate ICAL 6		2230802-008	Perchlorate6850c.lcm	1x	230379	8/2/2023 13:45
9	Perchlorate ICAL 7		2230802-009	Perchlorate6850c.lcm	1x	230380	8/2/2023 13:50
10	Perchlorate ICAL 8		2230802-010	Perchlorate6850c.lcm	1x	230381	8/2/2023 13:56
11	Perchlorate ICAL 9		2230802-011	Perchlorate6850c.lcm	1x	230382	8/2/2023 14:02
12	Perchlorate ICAL 10		2230802-012	Perchlorate6850c.lcm	1x	230383	8/2/2023 14:07
13	PerchlorateICV		2230802-013	Perchlorate6850c.lcm	1x	230385	8/2/2023 14:19

Initial Calibration - Detailed Report

Calibration ID: EC2300012 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2300012-01	Perchlorate ICAL 1	2230802-003	08/02/2023 13:17
02	EC2300012-02	Perchlorate ICAL 2	2230802-004	08/02/2023 13:23
03	EC2300012-03	Perchlorate ICAL 3	2230802-005	08/02/2023 13:28
04	EC2300012-04	Perchlorate ICAL 4	2230802-006	08/02/2023 13:34
05	EC2300012-05	Perchlorate ICAL 5	2230802-007	08/02/2023 13:39
06	EC2300012-06	Perchlorate ICAL 6	2230802-008	08/02/2023 13:45
07	EC2300012-07	Perchlorate ICAL 7	2230802-009	08/02/2023 13:50
08	EC2300012-08	Perchlorate ICAL 8	2230802-010	08/02/2023 13:56
09	EC2300012-09	Perchlorate ICAL 9	2230802-011	08/02/2023 14:02
10	EC2300012-10	Perchlorate ICAL 10	2230802-012	08/02/2023 14:07

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 2.086** **Average RF = 0.1475**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1428	02	0.5000	0.1421	03	0.7000	0.1457	04	1.0000	0.149
05	2.0000	0.1515	06	5.0000	0.1475	07	10.0000	0.1503	08	20.0000	0.1477
09	30.0000	0.1485	10	50.0000	0.1496						

Analyte

Perchlorate RSE = 2.09

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0968	-3.2	02	0.5000	0.482	-3.6	03	0.7000	0.692	-1.2
04	1.0000	1.01	1.0	05	2.0000	2.05	2.7	06	5.0000	5.00	-0.0
07	10.0000	10.2	1.9	08	20.0000	20.0	0.2	09	30.0000	30.2	0.7
10	50.0000	50.7	1.4								

Initial Calibration Verification Summary Report

Calibration ID:	EC2300012	**Instrument ID:**	E-LCMS-01
Datafile ID:	2230802-013	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2300012-11	T	Average RF	10	10.670	ng/mL	6.7	<= 15

Insight Report

Printed at 8/3/2023 9:30:46 AM

Method File: I:\LCMS01\DATA\20230802\20230802ICAL.lcm
Project File: I:\LCMS01\DATA\20230802\no use\20230802ICAL.damlp

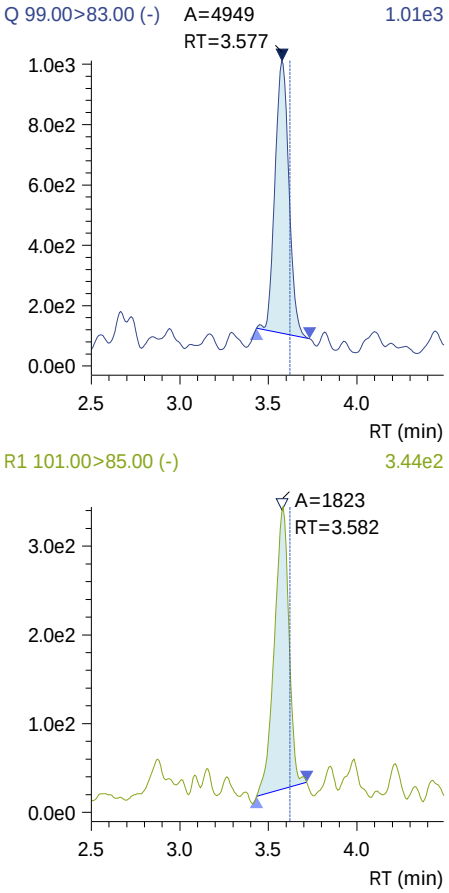
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 8/2/2023 1:17:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-003.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	3.577	4949	346538	0.0968	ng/mL	101.00 >85.00	36.83	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.572	346538	346538	1.0000	ng/mL	----	----	

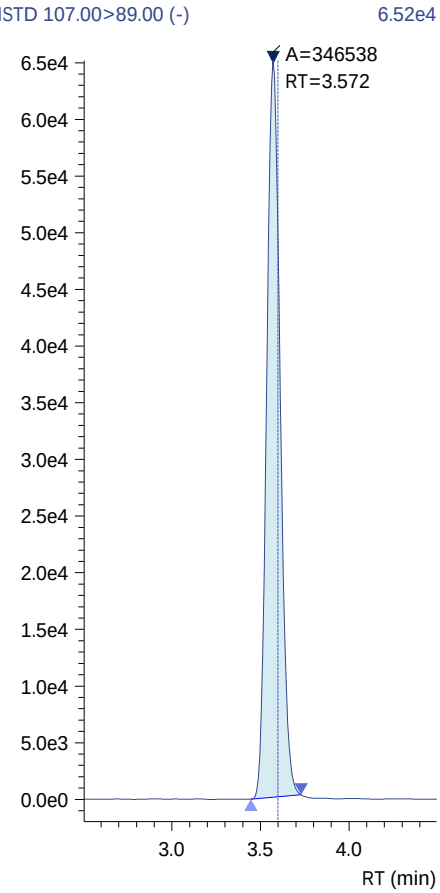
Perchlorate

Conc 0.0968
R#1 36.83 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/3/2023 9:30:46 AM

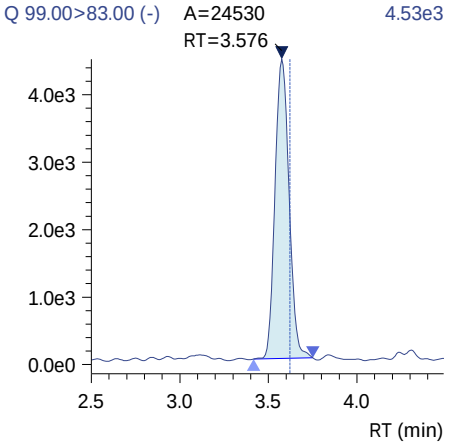
Perchlorate ICAL 2

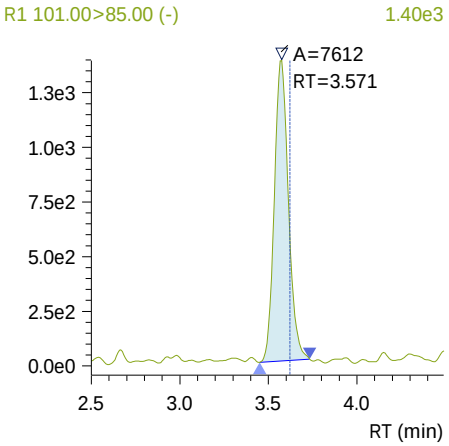
Sample ID: Perchlorate ICAL 2
Date Acquired: 8/2/2023 1:23:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-004.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.576	24530	345149	0.4820	ng/mL	101.00 >85.00	31.03	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.571	345149	345149	1.0000	ng/mL	----	----	

Perchlorate

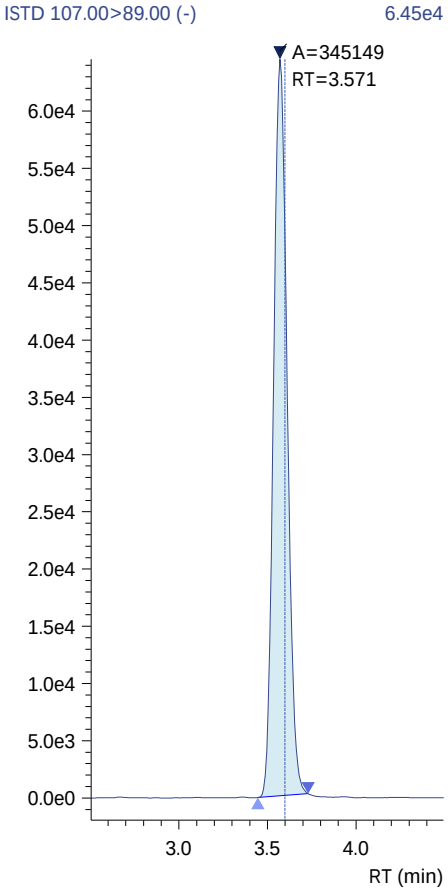
Conc 0.4820
R#1 31.03 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/3/2023 9:30:46 AM

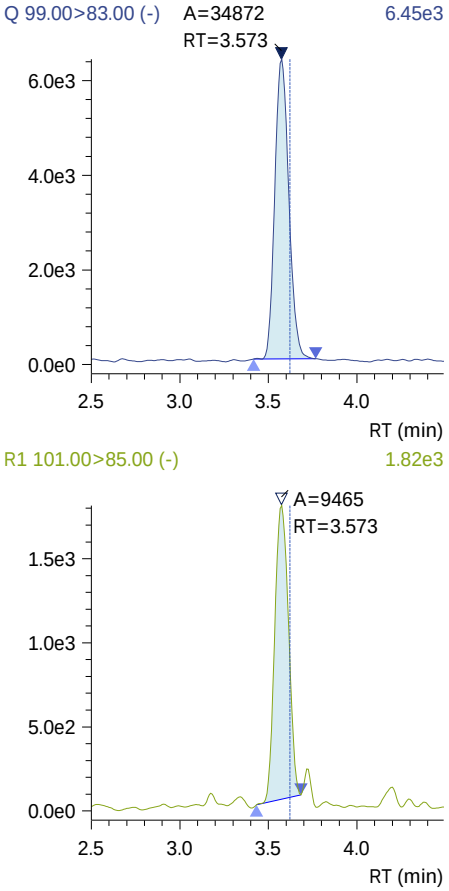
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 8/2/2023 1:28:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-005.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	3.573	34872	341974	0.6915	ng/mL	101.00 >85.00	27.14	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.570	341974	341974	1.0000	ng/mL	----	----	

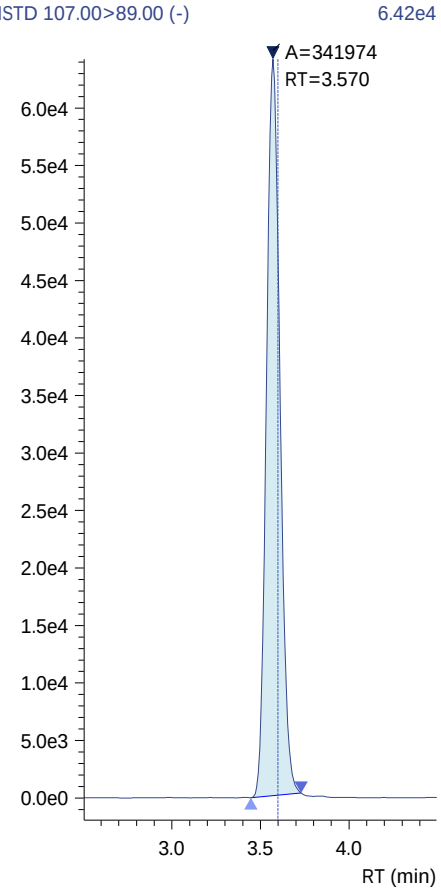
Perchlorate

Conc 0.6915
R#1 27.14 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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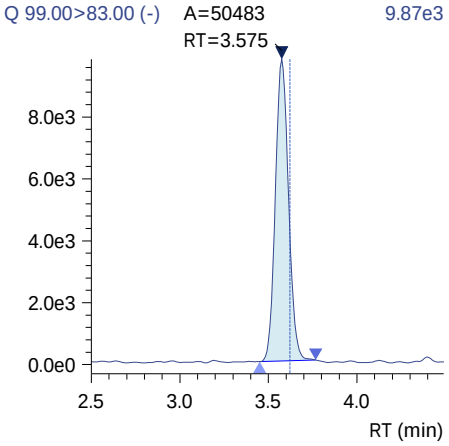
Perchlorate ICAL 4

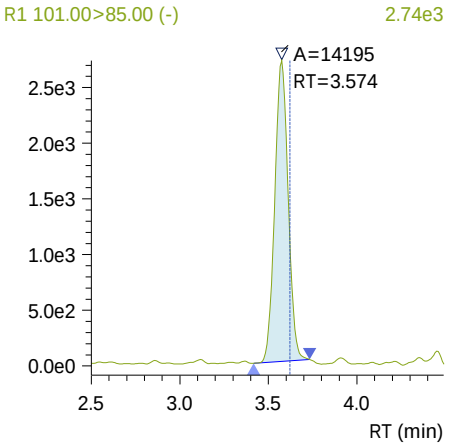
Sample ID: Perchlorate ICAL 4
Date Acquired: 8/2/2023 1:34:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-006.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.575	50483	338838	1.0104	ng/mL	101.00 >85.00	28.12	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.570	338838	338838	1.0000	ng/mL	----	----	

Perchlorate

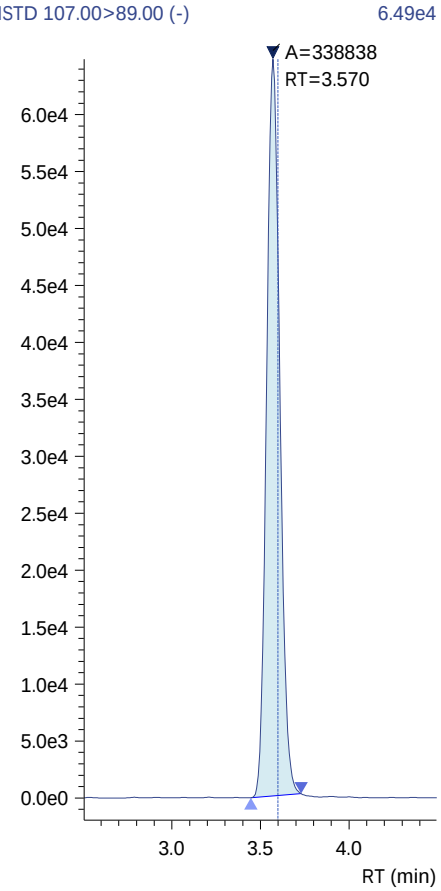
Conc 1.0104
R#1 28.12 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/3/2023 9:30:46 AM

Perchlorate ICAL 5

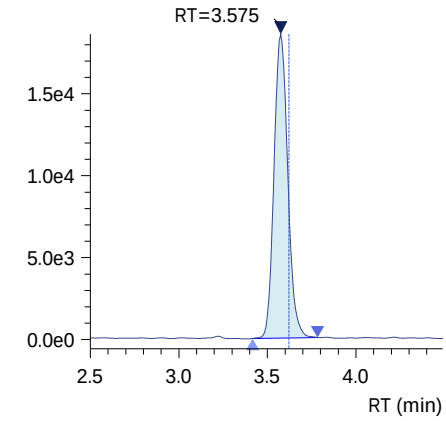
Sample ID: Perchlorate ICAL 5
Date Acquired: 8/2/2023 1:39:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-007.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.575	100319	331124	2.0545	ng/mL	101.00 >85.00	27.89	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.570	331124	331124	1.0000	ng/mL	----	----	

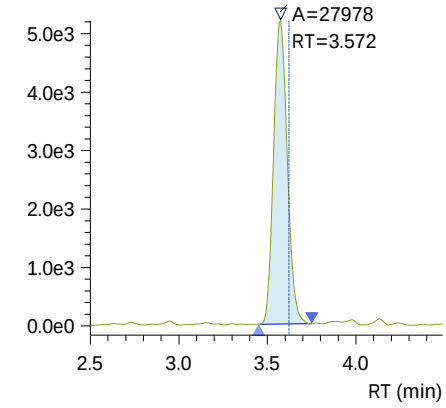
Perchlorate

Conc 2.0545
R#1 27.89 (30.41)

Q 99.00>83.00 (-) A=100319 1.86e4



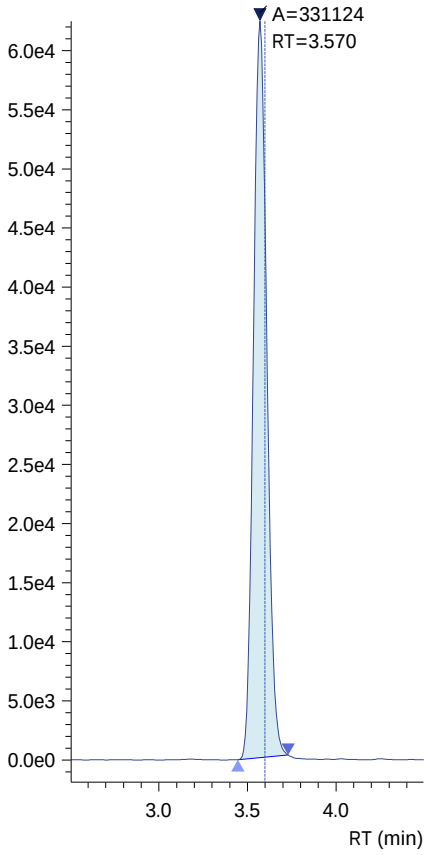
R1 101.00>85.00 (-) 5.22e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.25e4



Insight Report

Printed at 8/3/2023 9:30:46 AM

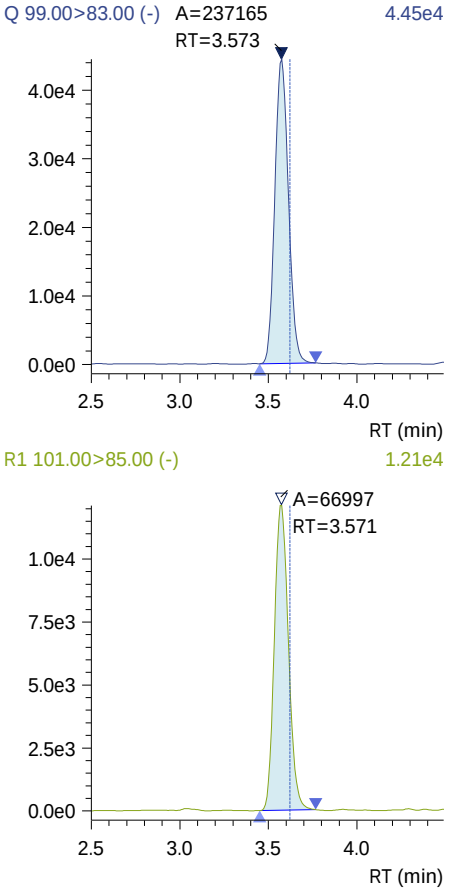
Perchlorate ICAL 6

Sample ID: Perchlorate ICAL 6
Date Acquired: 8/2/2023 1:45:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-008.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	3.573	237165	321666	5.0000	ng/mL	101.00 >85.00	28.25	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.570	321666	321666	1.0000	ng/mL	----	----	

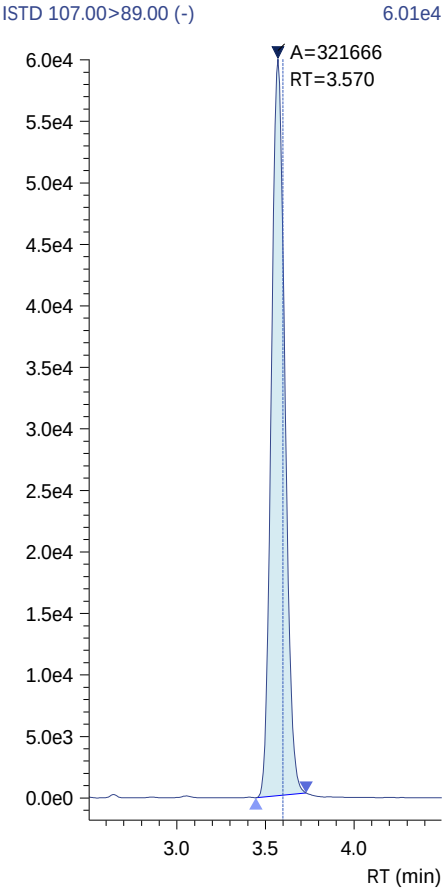
Perchlorate

Conc 5.0000
R#1 28.25 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/3/2023 9:30:46 AM

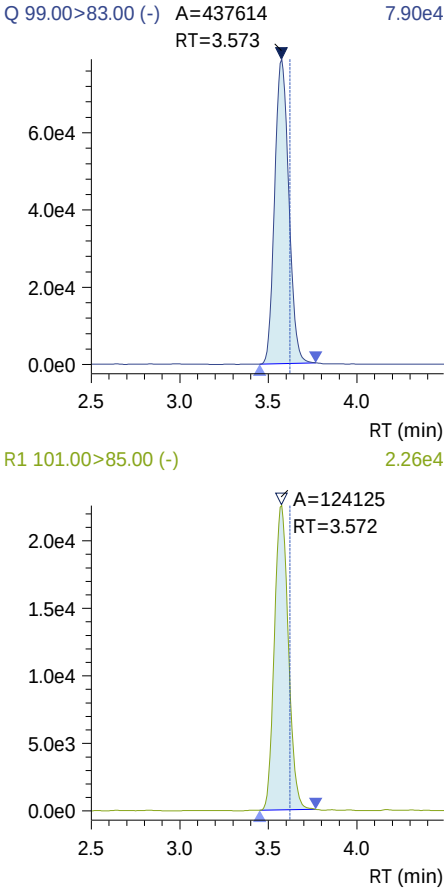
Perchlorate ICAL 7

Sample ID: Perchlorate ICAL 7
Date Acquired: 8/2/2023 1:50:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-009.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	3.573	437614	291215	10.1905	ng/mL	101.00 >85.00	28.36	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.570	291215	291215	1.0000	ng/mL	----	----	

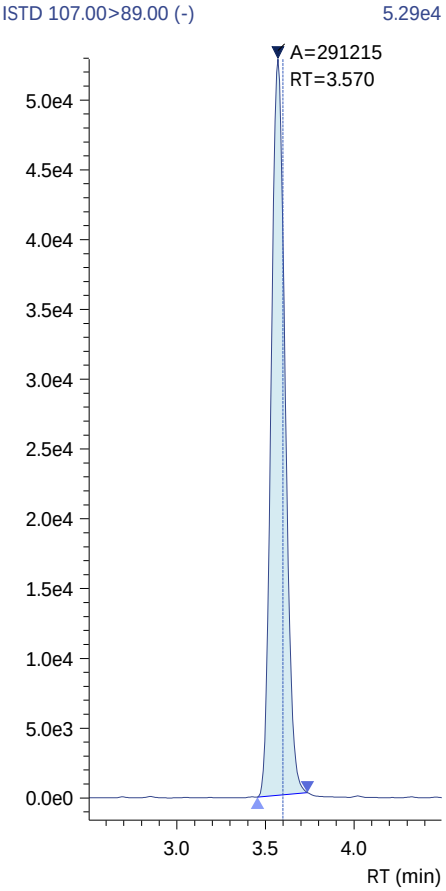
Perchlorate

Conc 10.1905
R#1 28.36 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/3/2023 9:30:46 AM

Perchlorate ICAL 8

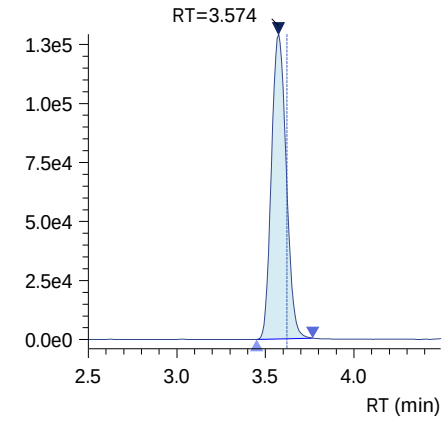
Sample ID: Perchlorate ICAL 8
Date Acquired: 8/2/2023 1:56:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-010.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.574	749856	253829	20.03 36	ng/mL	101.00 >85.00	28.56	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.569	253829	253829	1.0000	ng/mL	----	----	

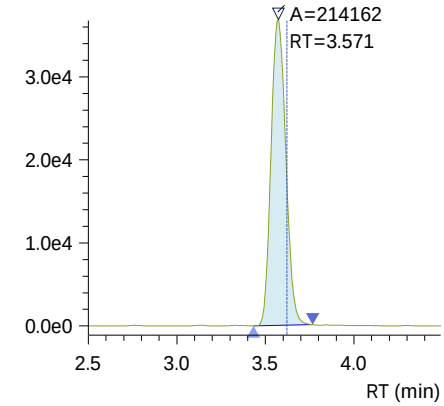
Perchlorate

Conc 20.0336
R#1 28.56 (30.41)

Q 99.00>83.00 (-) A=749856 1.29e5



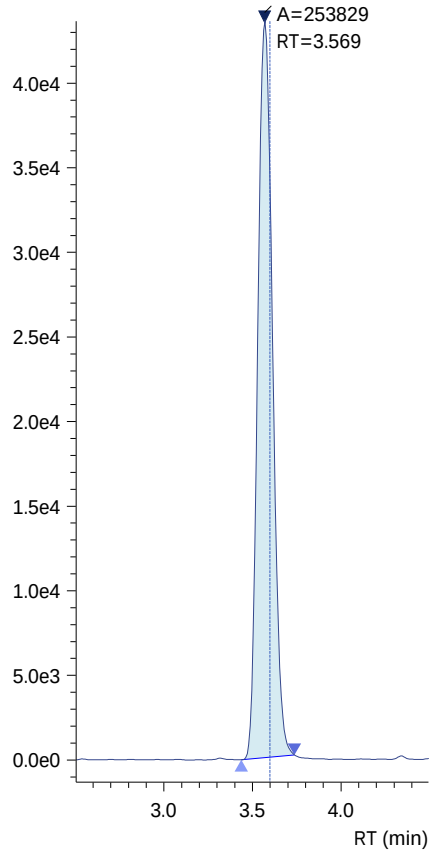
R1 101.00>85.00 (-) 3.68e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.37e4



Insight Report

Printed at 8/3/2023 9:30:46 AM

Perchlorate ICAL 9

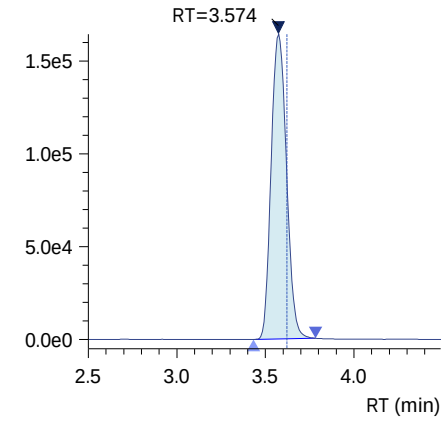
Sample ID: Perchlorate ICAL 9
Date Acquired: 8/2/2023 2:02:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-011.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.574	990671	222379	30.2105	ng/mL	101.00 >85.00	27.95	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.568	222379	222379	1.0000	ng/mL	----	----	

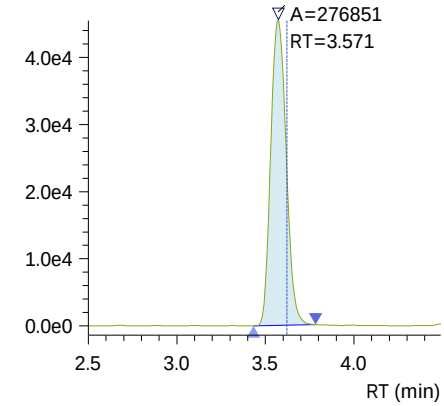
Perchlorate

Conc 30.2105
R#1 27.95 (30.41)

Q 99.00>83.00 (-) A=990671 1.64e5



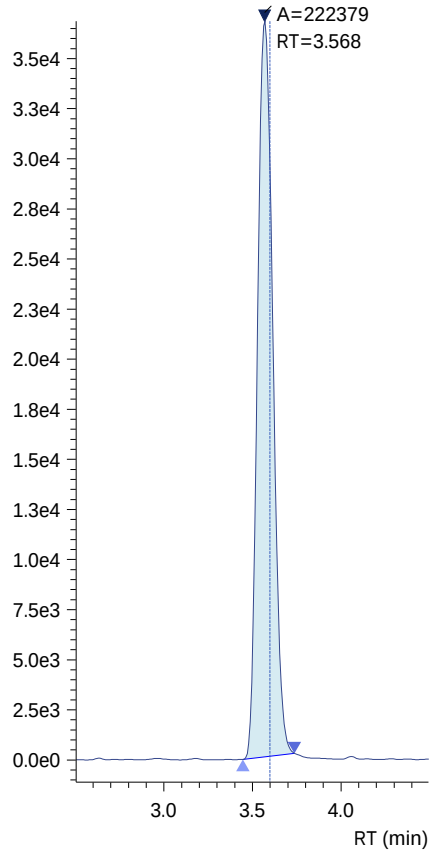
R1 101.00>85.00 (-) 4.55e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.69e4



Insight Report

Printed at 8/3/2023 9:30:46 AM

Perchlorate ICAL 10

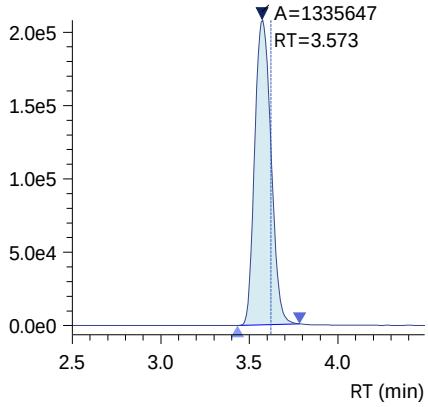
Sample ID: Perchlorate ICAL 10
Date Acquired: 8/2/2023 2:07:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-012.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.573	1335647	178573	50.72 20	ng/mL	101.00 >85.00	28.04	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.567	178573	178573	1.0000	ng/mL	----	----	

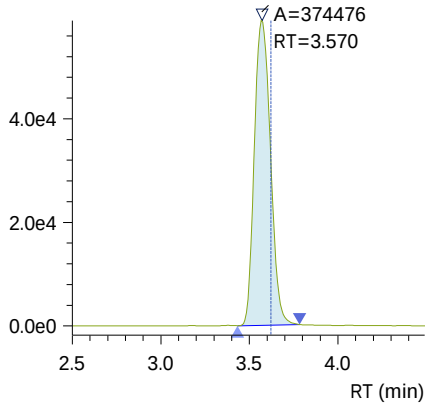
Perchlorate

Conc 50.7220
R#1 28.04 (30.41)

Q 99.00>83.00 (-) 2.08e5



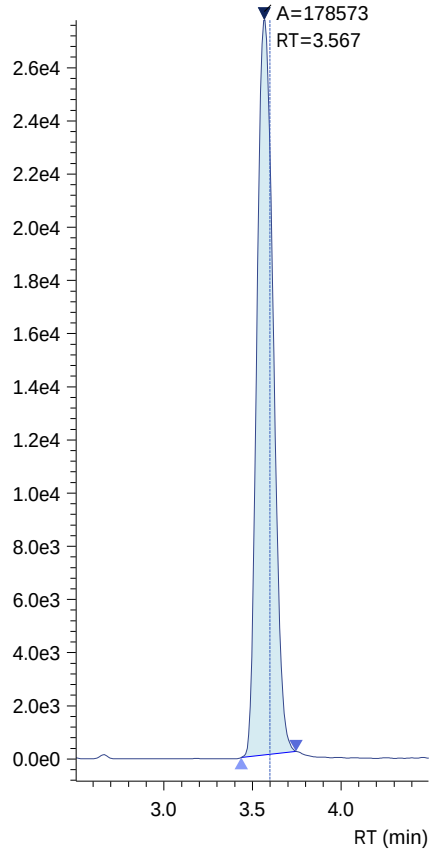
R1 101.00>85.00 (-) 5.90e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.78e4



Insight Report

Printed at 8/3/2023 9:30:46 AM

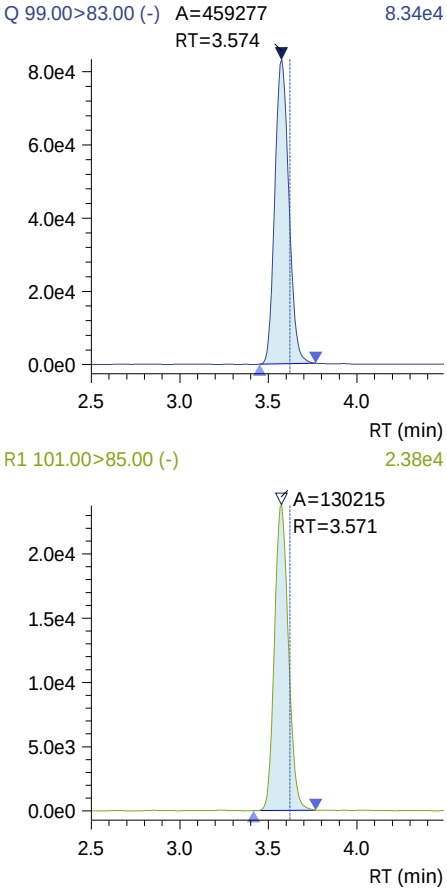
PerchlorateICV

Sample ID: PerchlorateICV
Date Acquired: 8/2/2023 2:19:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-013.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	3.574	459277	291890	10.6703	ng/mL	101.00 >85.00	28.35	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.570	291890	291890	1.0000	ng/mL	----	----	

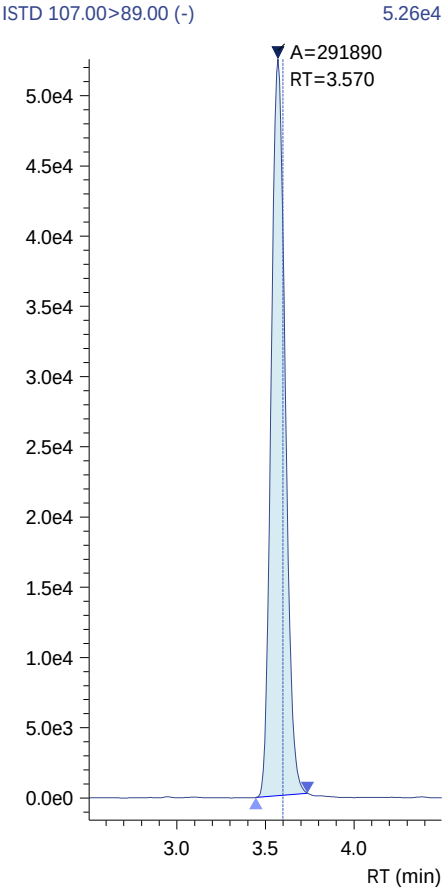
Perchlorate

Conc 10.6703
R#1 28.35 (30.41)



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

20230818-814330

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: KN

ICAL Date: 8/2/2023
Cal. Std. xp: 02/02/2024
ICAL ID: EC2300012

Mobile Phases : A:20mM ammonium acetate in water 230388 **B:**Acetonitrile 229152

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	IB		2230818-001	Perchlorate6850c.lcm	1x		8/18/2023 8:13
2	LODV		2230818-002	Perchlorate6850c.lcm	1x	230386	8/18/2023 8:18
3	ICS		2230818-003	Perchlorate6850c.lcm	1x	DNU-IS	8/18/2023 8:24
4	ICS		2230818-004	Perchlorate6850c.lcm	1x	32103051	8/18/2023 8:30
5	CCV		2230818-005	Perchlorate6850c.lcm	1x	230380	8/18/2023 8:55
6	EQ2300403-01		2230818-006	Perchlorate6850c.lcm	1x		8/18/2023 9:00
7	EQ2300403-02		2230818-007	Perchlorate6850c.lcm	1x		8/18/2023 9:06
8	EQ2300403-03		2230818-008	Perchlorate6850c.lcm	1x		8/18/2023 9:11
9	E2300744-001		2230818-009	Perchlorate6850c.lcm	1x		8/18/2023 9:17
10	E2300744-002		2230818-010	Perchlorate6850c.lcm	1x		8/18/2023 9:22
11	E2300744-003		2230818-011	Perchlorate6850c.lcm	5x		8/18/2023 9:28
12	K2309094-001		2230818-012	Perchlorate6850c.lcm	1x		8/18/2023 9:33
13	K2309094-002		2230818-013	Perchlorate6850c.lcm	1x		8/18/2023 9:39
14	K2309094-003		2230818-014	Perchlorate6850c.lcm	1x		8/18/2023 9:44
15	R2307250-005		2230818-015	Perchlorate6850c.lcm	1x		8/18/2023 9:50
16	CCV		2230818-016	Perchlorate6850c.lcm	1x	230380	8/18/2023 11:03
17	R2307250-011		2230818-017	Perchlorate6850c.lcm	1x		8/18/2023 11:09
18	R2307325-004		2230818-018	Perchlorate6850c.lcm	1x		8/18/2023 11:14
19	R2307325-009		2230818-019	Perchlorate6850c.lcm	1x		8/18/2023 11:20
20	IB		2230818-020	Perchlorate6850c.lcm	1x		8/18/2023 11:39
21	E2300745-001		2230818-021	Perchlorate6850c.lcm	1x		8/18/2023 11:45
22	E2300746-001		2230818-022	Perchlorate6850c.lcm	2000x		8/18/2023 11:50
23	CCV		2230818-023	Perchlorate6850c.lcm	1x	230380	8/18/2023 11:56

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Analyzed:**	8/18/23 08:55

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230808\2230818-005	**Lab Code:**	EQ2300406-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	814330
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	297,129	3.57
	Upper Limit ==>	445,694	5.57
	Lower Limit ==>	148,565	1.57
Associated Analyses			
Continuing Calibration Verification	EQ2300406-01	315,173	3.56
Method Blank	EQ2300403-01	333,390	3.58
Lab Control Sample	EQ2300403-02	323,357	3.58
Duplicate Lab Control Sample	EQ2300403-03	320,951	3.58
LH18/24-SP650_081623_Between IX	E2300744-001	346,227	3.58
LH18/24-SP650_081623_AIX	E2300744-002	340,089	3.58
LH18/24-SP650_081623_BIX	E2300744-003	286,714	3.58

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Analyzed:**	8/18/23 11:03

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230808\2230818-016	**Lab Code:**	EQ2300406-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	814330
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	297,129	3.57
	Upper Limit ==>	445,694	5.57
	Lower Limit ==>	148,565	1.57
Associated Analyses			
Continuing Calibration Verification	EQ2300406-02	286,291	3.58

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300744
Project:	HS23081039	**Date Analyzed:**	8/18/23 11:56

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230808\2230818-023	**Lab Code:**	EQ2300406-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	814330
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	297,129	3.57
	Upper Limit ==>	445,694	5.57
	Lower Limit ==>	148,565	1.57
Associated Analyses			
Continuing Calibration Verification	EQ2300406-03	267,826	3.58

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: HS23081039

Service Request: E2300744
Date Analyzed: 8/18/23

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\20230808\2230818-005

Calibration Date: 8/2/23
Calibration ID: EC2300012
Analysis Lot: 814330
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1475	0.1492	1.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23081039

Service Request: E2300744
Date Analyzed: 8/18/23

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\20230808\2230818-016

Calibration Date: 8/2/23
Calibration ID: EC2300012
Analysis Lot: 814330
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.96	0.1475	0.1469	-0.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23081039

Service Request: E2300744
Date Analyzed: 8/18/23

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\20230808\2230818-023

Calibration Date: 8/2/23
Calibration ID: EC2300012
Analysis Lot: 814330
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.0	0.1475	0.1478	0.2	NA	± 15 %	Average RF

Insight Report

Printed at 8/18/2023 12:17:01 PM

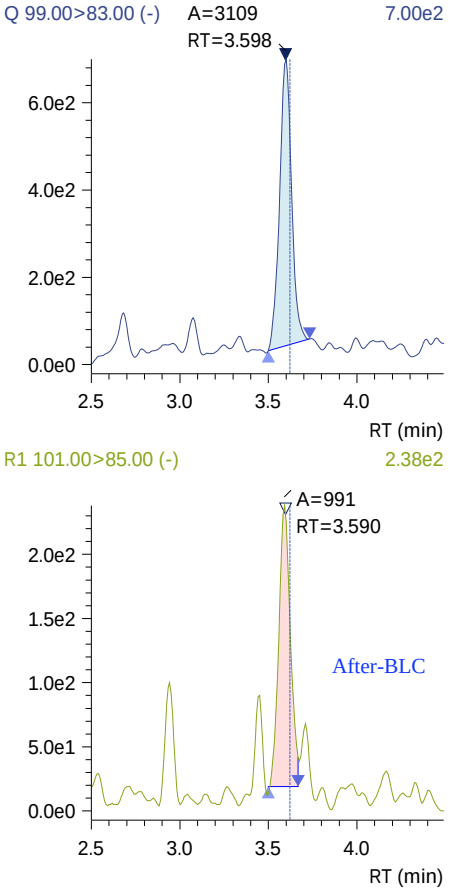
LODV

Sample ID: LODV
Date Acquired: 8/18/2023 8:18:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-002.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	MI R1	3.598	3109	410240	0.0514	ng/mL	101.00 >85.00	31.87	19.93-37.01
Sodium Perchlorate-18O4 _IS	Auto	3.590	4102 40	410240	1.0000	ng/mL	----	----	

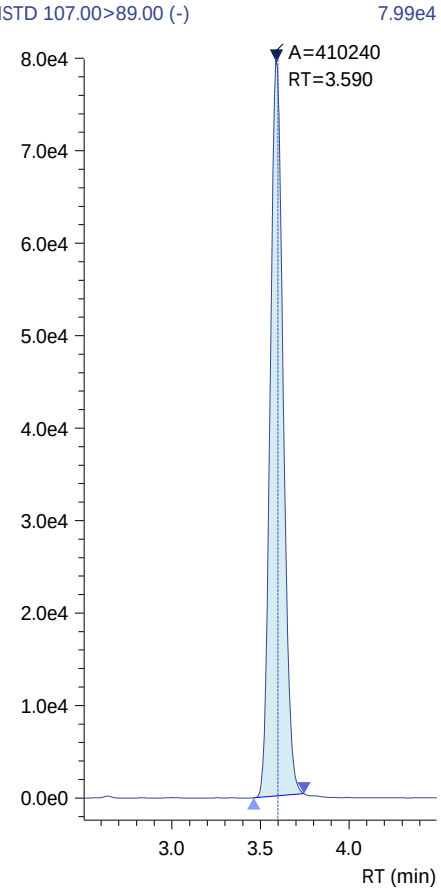
Perchlorate

Conc 0.0514
R#1 31.87 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2023 12:18:17 PM

Method File: I:\LCMS01\DATA\20230817\20230818.lcm
Project File: I:\LCMS01\DATA\20230817\20230818.damlp

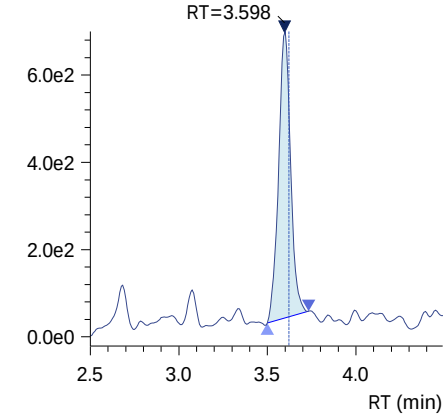
LODV

Sample ID: LODV
Date Acquired: 8/18/2023 8:18:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

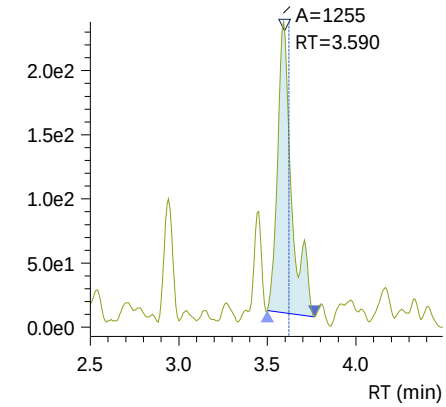
Perchlorate

Conc 0.0514
R#1 40.36 (28.47)

Q 99.00>83.00 (-) A=3109 7.00e2



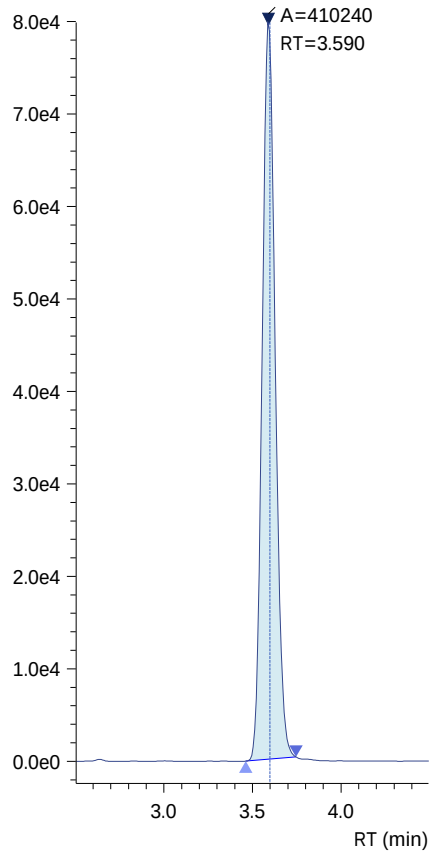
R1 101.00>85.00 (-) 2.38e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 7.99e4



Insight Report

Printed at 8/18/2023 12:17:01 PM

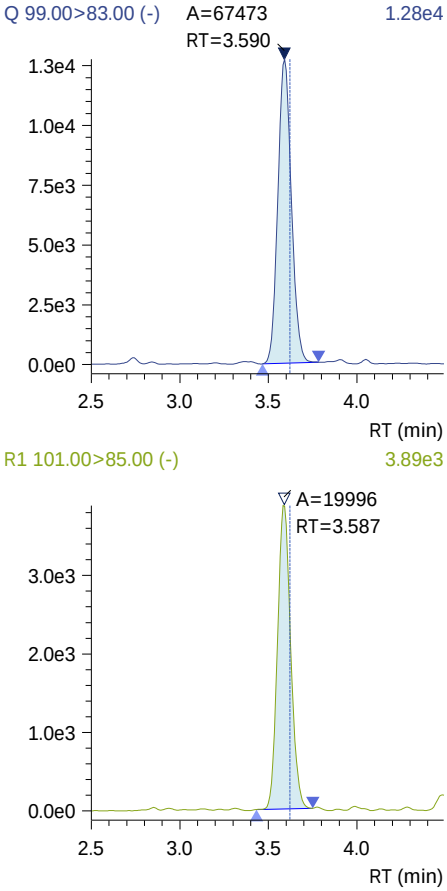
ICS

Sample ID: ICS
Date Acquired: 8/18/2023 8:30:51 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-004.lcd
Vial: 2 | 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	Auto	3.590	67473	415167	1.1021	ng/mL	101.00 >85.00	29.64	19.93-37.01
Sodium Perchlorate-18O4 _IS	Auto	3.585	4151 67	415167	1.0000	ng/mL	----	----	

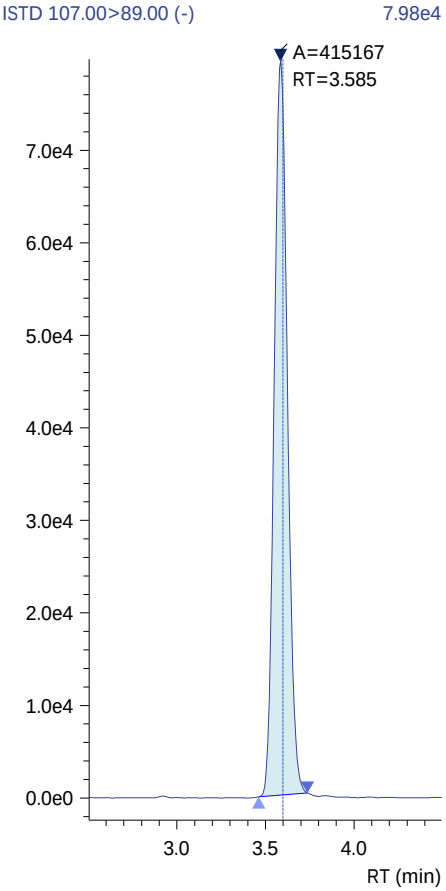
Perchlorate

Conc 1.1021
R#1 29.64 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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CCV

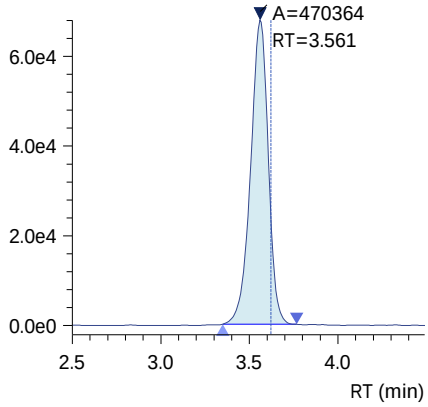
Sample ID: CCV
Date Acquired: 8/18/2023 8:55:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-005.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	470364	315173	10.1206	ng/mL	101.00 >85.00	28.61	19.93-37.01
Sodium Perchlorate-18O4_IS	Auto	3.557	315173	315173	1.0000	ng/mL	----	----	

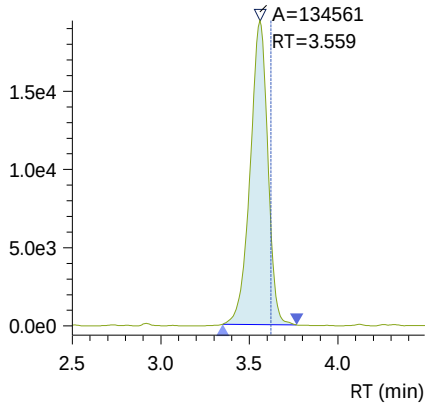
Perchlorate

Conc 10.1206
R#1 28.61 (28.47)

Q 99.00>83.00 (-) 6.81e4



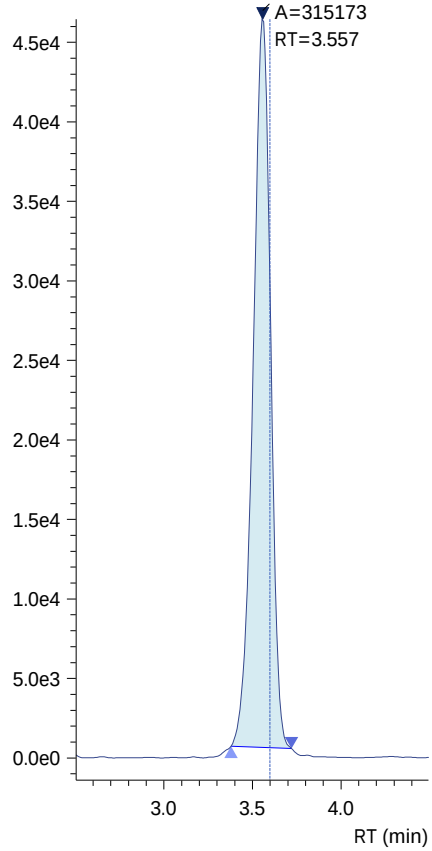
R1 101.00>85.00 (-) 1.95e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.65e4



Insight Report

Printed at 8/18/2023 12:17:01 PM

EQ2300403-01

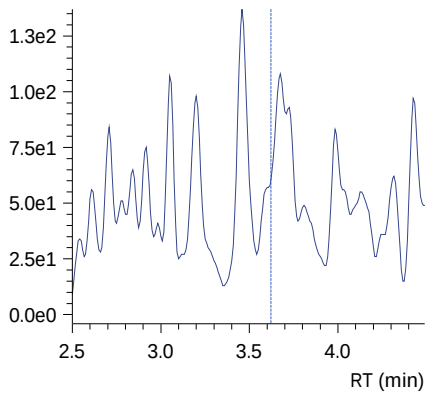
Sample ID: EQ2300403-01
Date Acquired: 8/18/2023 9:00:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	333390	----	ng/mL	101.00 >85.00	0.00	19.93-37.01
Sodium Perchlorate-18O4_IS	Auto	3.581	333390	333390	1.0000	ng/mL	----	----	

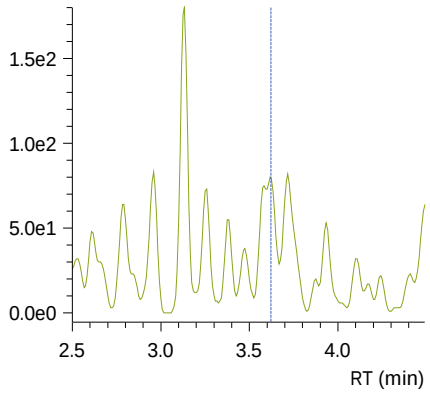
Perchlorate

Conc ----
R#1 0.00 (28.47)

Q 99.00>83.00 (-) 1.37e2



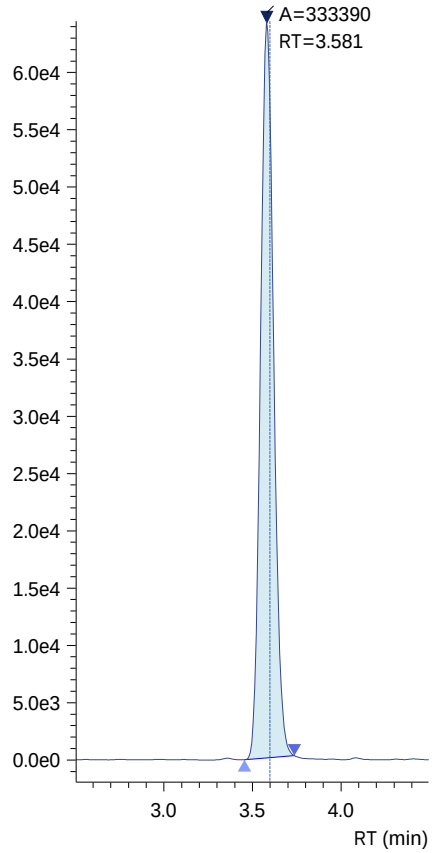
R1 101.00>85.00 (-) 1.80e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.45e4



Insight Report

Printed at 8/18/2023 12:17:01 PM

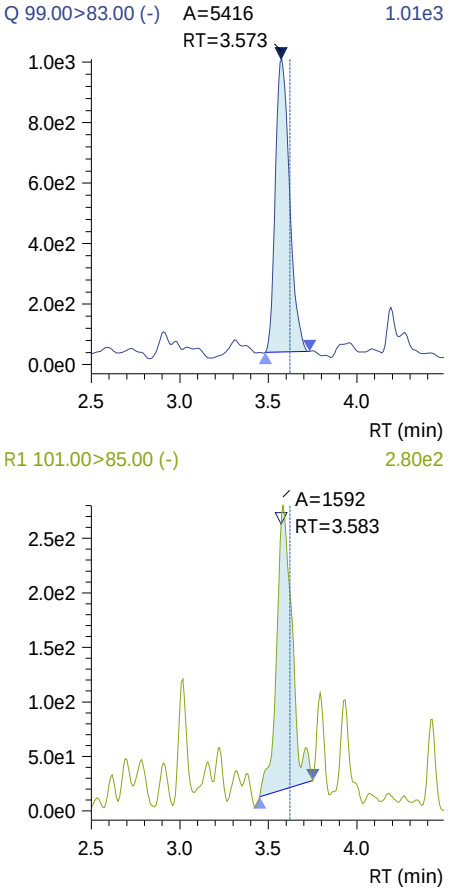
EQ2300403-02

Sample ID: EQ2300403-02
Date Acquired: 8/18/2023 9:06:14 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-007.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	Auto	3.573	5416	323357	0.1136	ng/mL	101.00 >85.00	29.40	19.93-37.01
Sodium Perchlorate-18O4 _IS	Auto	3.582	3233 57	323357	1.0000	ng/mL	----	----	

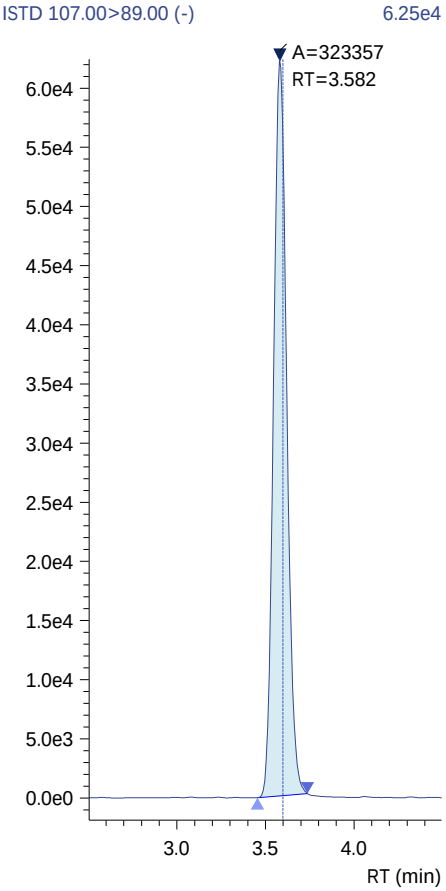
Perchlorate

Conc 0.1136
R#1 29.40 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2023 12:17:01 PM

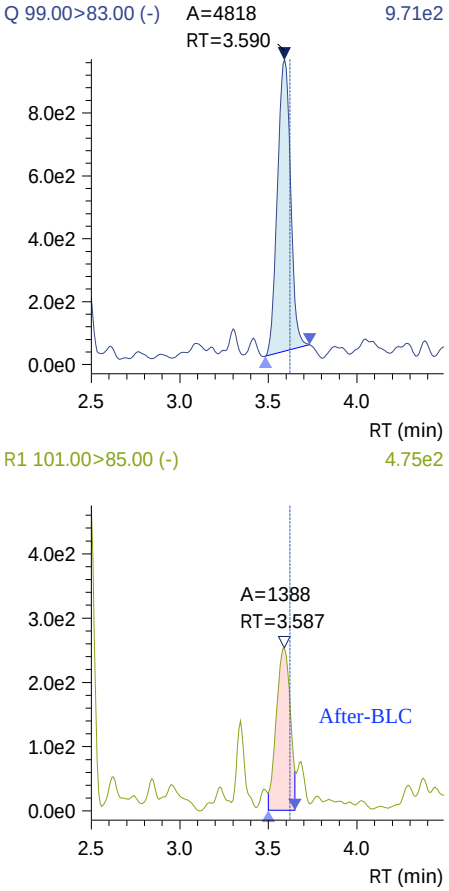
EQ2300403-03

Sample ID: EQ2300403-03
Date Acquired: 8/18/2023 9:11:48 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-008.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	MI R1	3.590	4818	320951	0.1018	ng/mL	101.00 >85.00	28.80	19.93-37.01
Sodium Perchlorate-18O4 _IS	Auto	3.582	321 51	320951	1.0000	ng/mL	----	----	

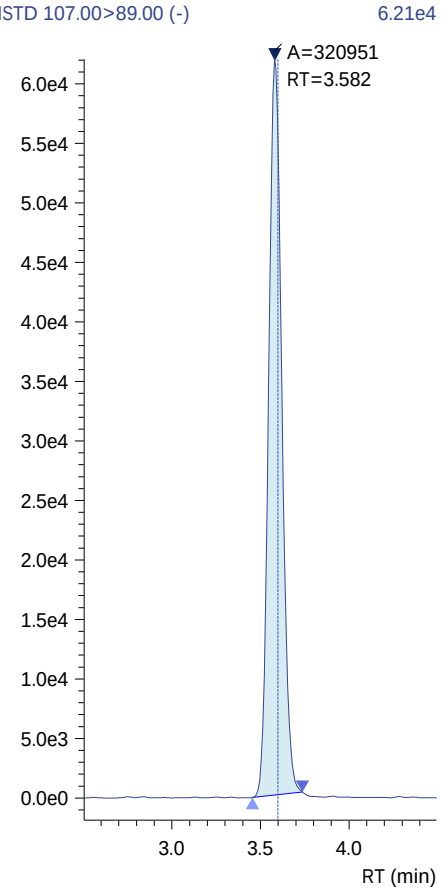
Perchlorate

Conc 0.1018
R#1 28.80 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2023 12:18:17 PM

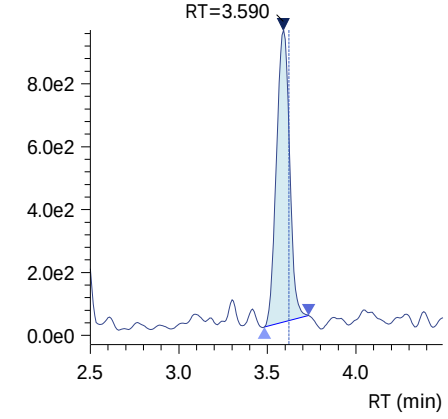
EQ2300403-03

Sample ID: EQ2300403-03
Date Acquired: 8/18/2023 9:11:48 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-008.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 4

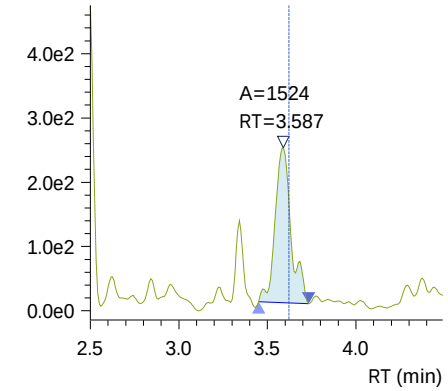
Perchlorate

Conc 0.1018
R#1 31.64 (28.47)

Q 99.00>83.00 (-) A=4818 9.71e2



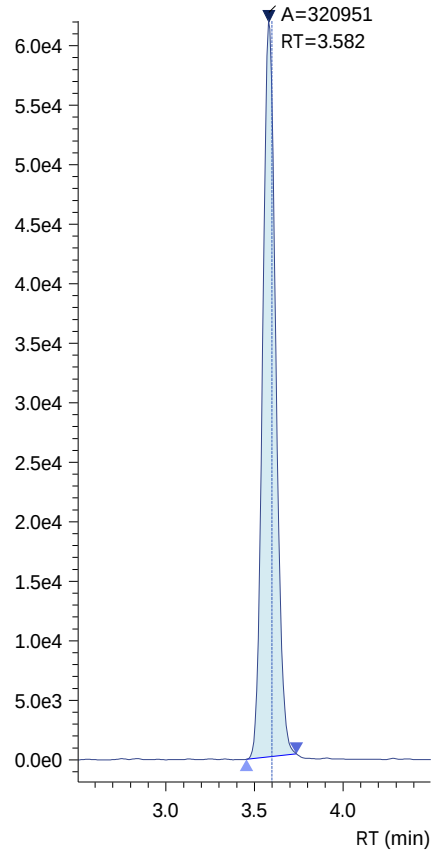
R1 101.00>85.00 (-) 4.75e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.21e4



Insight Report

Printed at 8/18/2023 12:17:01 PM

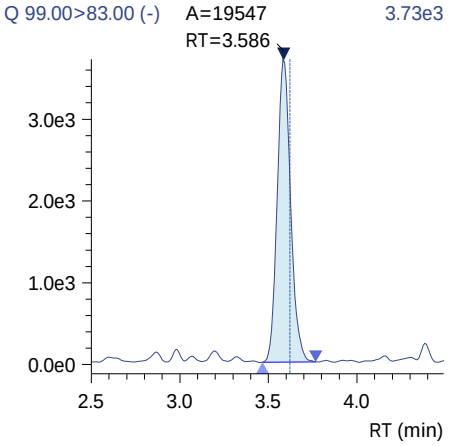
E2300744-001

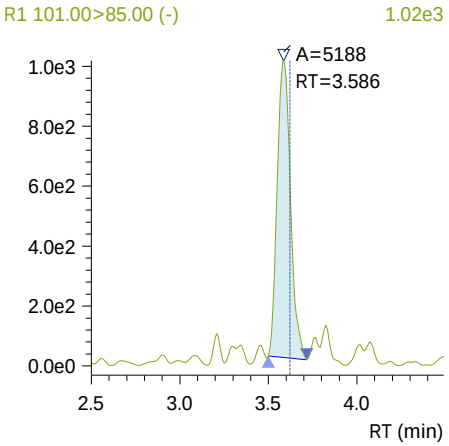
Sample ID: E2300744-001
Date Acquired: 8/18/2023 9:17:19 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-009.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.586	19547	346227	0.3829	ng/mL	101.00 >85.00	26.54	19.93-37.01
Sodium Perchlorate-18O4 _IS	Auto	3.583	3462 27	346227	1.0000	ng/mL	----	----	

Perchlorate

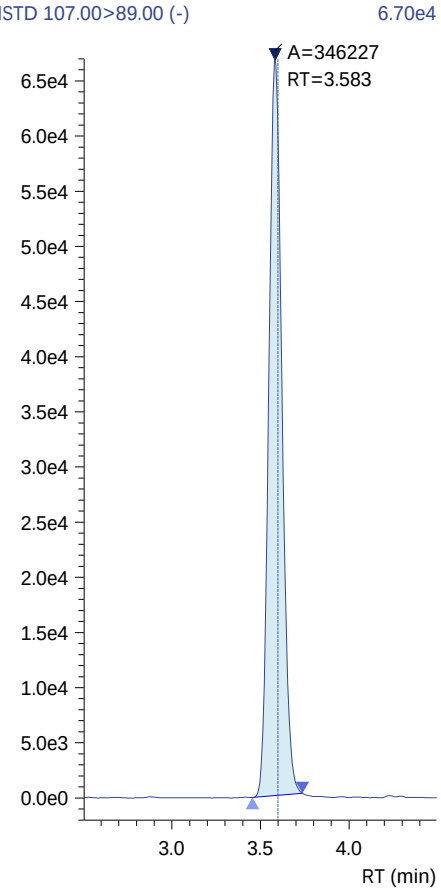
Conc 0.3829
R#1 26.54 (28.47)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2023 12:17:01 PM

E2300744-002

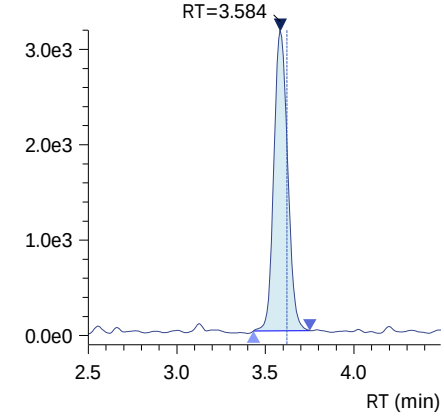
Sample ID: E2300744-002
Date Acquired: 8/18/2023 9:22:51 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-010.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.584	17097	340089	0.3409	ng/mL	101.00 >85.00	26.11	19.93-37.01
Sodium Perchlorate-18O4 _IS	Auto	3.584	3400 89	340089	1.0000	ng/mL	----	----	

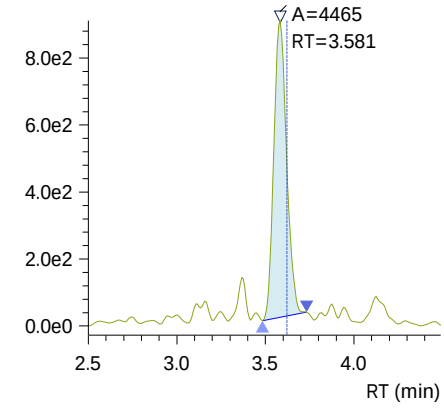
Perchlorate

Conc 0.3409
R#1 26.11 (28.47)

Q 99.00>83.00 (-) A=17097 RT=3.584 3.20e3



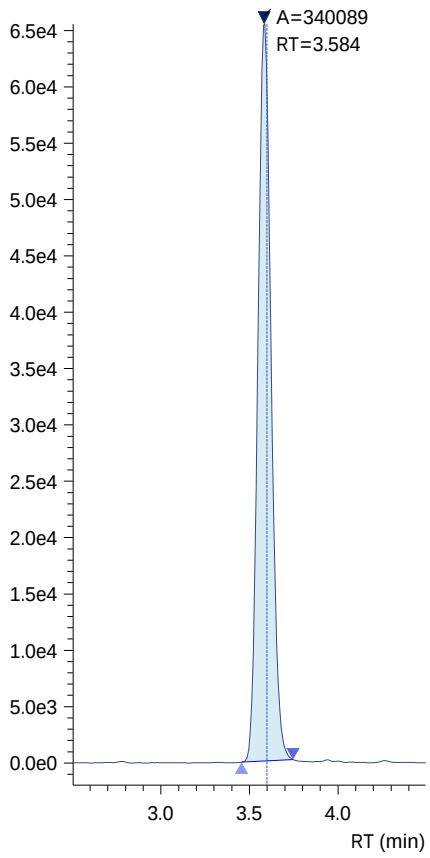
R1 101.00>85.00 (-) 9.12e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.56e4



Insight Report

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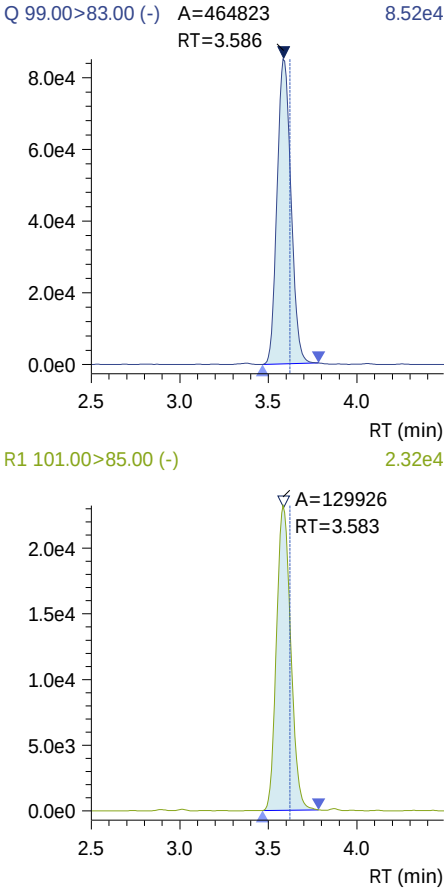
E2300744-003X5

Sample ID: E2300744-003
Date Acquired: 8/18/2023 9:28:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-011.lcd
Vial: 6 | 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	3.586	464823	286714	10.9941	ng/mL	101.00 >85.00	27.95	19.93-37.01
Sodium Perchlorate-18O4 _IS	Auto	3.582	286714	286714	1.0000	ng/mL	----	----	

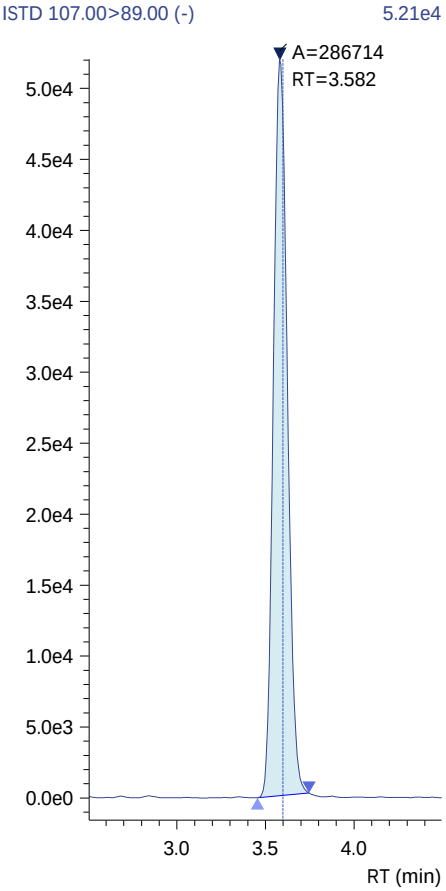
Perchlorate

Conc 10.9941
R#1 27.95 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2023 12:17:01 PM

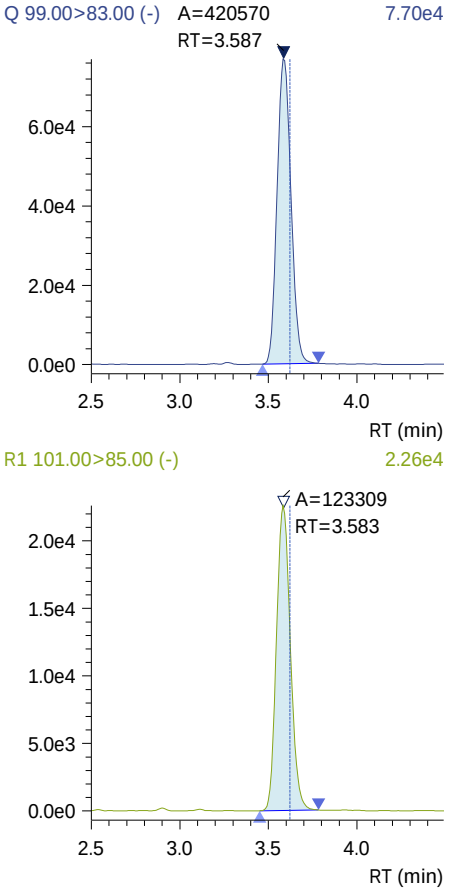
CCV

Sample ID: CCV
Date Acquired: 8/18/2023 11:03:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-016.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	3.587	420570	286291	9.9621	ng/mL	101.00 >85.00	29.32	19.93-37.01
Sodium Perchlorate-18O4_IS	Auto	3.582	286291	286291	1.0000	ng/mL	----	----	

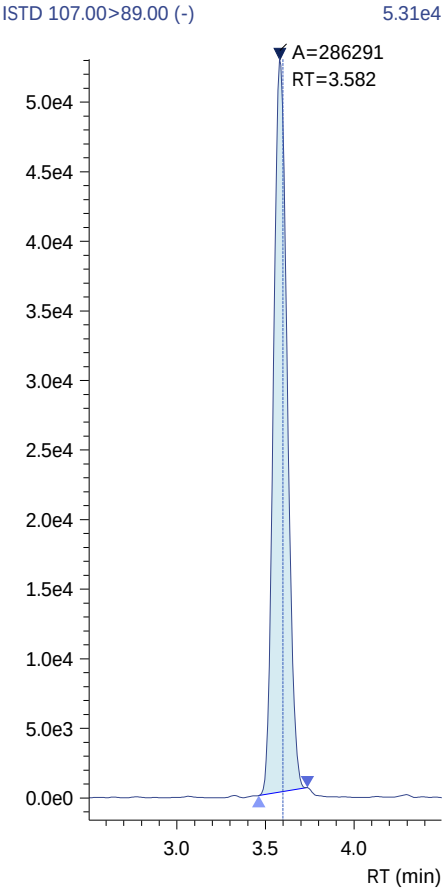
Perchlorate

Conc 9.9621
R#1 29.32 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



HS23081040 Groundwater Treatment Plant Quarterly Influent Samples Cover Page

ALS WO# HS23081040

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
Houston, TX 77099
T : +1 281 530 5656
F : +1 281 530 5887
www.alsglobal.com

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Form 3 - ICPMS07_444934 CCB
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Form 4 - ICPMS07_444934 ICSA
Form 5A - HG04_444967 MS

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alsglobal.com

WorkOrder: HS23081040

Groundwater Treatment Plant Quarterly Influent Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

29-Aug-2023

HS23081040 Groundwater Treatment Plant Quarterly Influent Samples Final

ALS WO# HS23081040

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

August 29, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23081040**

Laboratory Results for: **Groundwater Treatment Plant Quarterly Influent Samples**

Dear Marcia Olive,

ALS Environmental received 2 sample(s) on Aug 17, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
James Guin

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
Work Order: HS23081040

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23081040-01	LH18/24-SP140_081623	Water		16-Aug-2023 13:00	17-Aug-2023 09:50	☐
HS23081040-02	Trip Blank	Water	cg-071023-06	16-Aug-2023 00:00	17-Aug-2023 09:50	☐

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Groundwater Treatment Plant Quarterly Influent Samples
Work Order: HS23081040

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 199190

Sample ID: LCSD1-199190

• The RPD between the LCS and LCSD was outside of the control limit.

GCMS Volatiles by Method SW8260

Batch ID: R444516

Sample ID: VLCSW-230821

• LCS was above the control limit. Samples are ND

Sample ID: HS23081216-13MS

• MS and MSD are for an unrelated sample

Metals by Method SW7470A

Batch ID: 199581

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 199483

Sample ID: HS23081076-01MS

• MS and MSD are for an unrelated sample

WetChemistry by Method E1664A

Batch ID: R444849

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: R444810

Sample ID: HS23081487-01MS

• MS and MSD are for an unrelated sample (Chloride,Sulfate)

WetChemistry by Method E410.4

Batch ID: R444779

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Influent Samples WorkOrder:HS23081040
Sample ID: LH18/24-SP140_081623 Lab ID:HS23081040-01
Collection Date: 16-Aug-2023 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: AKP
1,1,1,2-Tetrachloroethane	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
1,1,1-Trichloroethane	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
1,1,2,2-Tetrachloroethane	10	U	5.0	10	10	ug/L	10	21-Aug-2023 18:34
1,1,2-Trichloroethane	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
1,1-Dichloroethane	**11**		**2.0**	**10**	**10**	**ug/L**	10	21-Aug-2023 18:34
1,1-Dichloroethene	**57**		**2.0**	**10**	**10**	**ug/L**	10	21-Aug-2023 18:34
1,1-Dichloropropene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
1,2,3-Trichlorobenzene	10	U	4.0	10	10	ug/L	10	21-Aug-2023 18:34
1,2,3-Trichloropropane	10	U	5.0	10	10	ug/L	10	21-Aug-2023 18:34
1,2,4-Trichlorobenzene	10	U	5.0	10	10	ug/L	10	21-Aug-2023 18:34
1,2,4-Trimethylbenzene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
1,2-Dibromo-3-chloropropane	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
1,2-Dibromoethane	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
1,2-Dichlorobenzene	10	U	5.0	10	10	ug/L	10	21-Aug-2023 18:34
1,2-Dichloroethane	**34**		**2.0**	**10**	**10**	**ug/L**	10	21-Aug-2023 18:34
1,2-Dichloropropane	10	U	5.0	10	10	ug/L	10	21-Aug-2023 18:34
1,3,5-Trimethylbenzene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
1,3-Dichlorobenzene	10	U	4.0	10	10	ug/L	10	21-Aug-2023 18:34
1,3-Dichloropropane	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
1,4-Dichlorobenzene	10	U	4.0	10	10	ug/L	10	21-Aug-2023 18:34
2,2-Dichloropropane	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
2-Butanone	10	U	5.0	10	20	ug/L	10	21-Aug-2023 18:34
2-Chlorotoluene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
2-Hexanone	10	U	10	10	20	ug/L	10	21-Aug-2023 18:34
4-Chlorotoluene	10	U	4.0	10	10	ug/L	10	21-Aug-2023 18:34
4-Isopropyltoluene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
4-Methyl-2-pentanone	10	U	7.0	10	20	ug/L	10	21-Aug-2023 18:34
Acetone	10	U	4.0	10	20	ug/L	10	21-Aug-2023 18:34
Benzene	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
Bromobenzene	10	U	4.0	10	10	ug/L	10	21-Aug-2023 18:34
Bromochloromethane	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
Bromodichloromethane	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
Bromoform	10	U	4.0	10	10	ug/L	10	21-Aug-2023 18:34
Bromomethane	10	U	4.0	10	10	ug/L	10	21-Aug-2023 18:34
Carbon disulfide	10	U	6.0	10	20	ug/L	10	21-Aug-2023 18:34
Carbon tetrachloride	**6.5**	J	**5.0**	**10**	**10**	**ug/L**	10	21-Aug-2023 18:34
Chlorobenzene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
Chloroethane	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
Chloroform	**12**		**2.0**	**10**	**10**	**ug/L**	10	21-Aug-2023 18:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Groundwater Treatment Plant Quarterly Influent Samples WorkOrder:HS23081040
Sample ID: LH18/24-SP140_081623 Lab ID:HS23081040-01
Collection Date: 16-Aug-2023 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: AKP
Chloromethane	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
cis-1,2-Dichloroethene	**2,400**		**20**	**100**	**100**	**ug/L**	100	21-Aug-2023 18:55
cis-1,3-Dichloropropene	10	U	1.0	10	10	ug/L	10	21-Aug-2023 18:34
Dibromochloromethane	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
Dibromomethane	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
Dichlorodifluoromethane	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
Ethylbenzene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
Hexachlorobutadiene	10	U	10	10	10	ug/L	10	21-Aug-2023 18:34
Isopropylbenzene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
m,p-Xylene	20	U	5.0	20	20	ug/L	10	21-Aug-2023 18:34
Methylene chloride	**3,500**		**40**	**100**	**200**	**ug/L**	100	21-Aug-2023 18:55
n-Butylbenzene	10	U	4.0	10	10	ug/L	10	21-Aug-2023 18:34
n-Propylbenzene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
Naphthalene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
o-Xylene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
sec-Butylbenzene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
Styrene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
tert-Butylbenzene	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
Tetrachloroethene	**7.1**	J	**3.0**	**10**	**10**	**ug/L**	10	21-Aug-2023 18:34
Toluene	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
trans-1,2-Dichloroethene	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
trans-1,3-Dichloropropene	10	U	2.0	10	10	ug/L	10	21-Aug-2023 18:34
Trichloroethene	**5,000**		**20**	**100**	**100**	**ug/L**	100	21-Aug-2023 18:55
Trichlorofluoromethane	10	U	3.0	10	10	ug/L	10	21-Aug-2023 18:34
Vinyl chloride	**90**		**2.0**	**10**	**10**	**ug/L**	10	21-Aug-2023 18:34
Surr: 1,2-Dichloroethane-d4	*103*			**0**	*81-118*	*%REC*	*10*	*21-Aug-2023 18:34*
Surr: 1,2-Dichloroethane-d4	*103*			**0**	*81-118*	*%REC*	*100*	*21-Aug-2023 18:55*
Surr: 4-Bromofluorobenzene	*91.2*			**0**	*85-114*	*%REC*	*10*	*21-Aug-2023 18:34*
Surr: 4-Bromofluorobenzene	*89.3*			**0**	*85-114*	*%REC*	*100*	*21-Aug-2023 18:55*
Surr: Dibromofluoromethane	*103*			**0**	*80-119*	*%REC*	*10*	*21-Aug-2023 18:34*
Surr: Dibromofluoromethane	*104*			**0**	*80-119*	*%REC*	*100*	*21-Aug-2023 18:55*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*10*	*21-Aug-2023 18:34*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*100*	*21-Aug-2023 18:55*
SEMIVOLATILES SIM	**Method:SW8270SIM**					Prep:SW3510 / 18-Aug-2023		Analyst: JLJ
1,4-Dioxane	**1.3**		**0.10**	**0.10**	**0.10**	**ug/L**	10	28-Aug-2023 17:29
Surr: 2-Fluorobiphenyl	*100.0*			**0**	*40-140*	*%REC*	*10*	*28-Aug-2023 17:29*
Surr: 4-Terphenyl-d14	*100*			**0**	*40-140*	*%REC*	*10*	*28-Aug-2023 17:29*
Surr: Nitrobenzene-d5	*85.2*			**0**	*40-140*	*%REC*	*10*	*28-Aug-2023 17:29*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
Sample ID: LH18/24-SP140_081623
Collection Date: 16-Aug-2023 13:00

ANALYTICAL REPORT
WorkOrder:HS23081040
Lab ID:HS23081040-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 24-Aug-2023		Analyst: JC
Aluminum	**0.0497**		**0.00180**	**0.0150**	**0.0100**	**mg/L**	1	29-Aug-2023 11:59
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	29-Aug-2023 11:59
Arsenic	**0.000658**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	29-Aug-2023 11:59
Barium	**0.488**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	29-Aug-2023 11:59
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	29-Aug-2023 11:59
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	29-Aug-2023 11:59
Calcium	**52.6**		**0.0340**	**1.00**	**0.500**	**mg/L**	1	29-Aug-2023 11:59
Chromium	**0.00252**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	29-Aug-2023 11:59
Cobalt	**0.00504**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	29-Aug-2023 11:59
Iron	**0.569**		**0.0120**	**1.00**	**0.200**	**mg/L**	1	29-Aug-2023 11:59
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	29-Aug-2023 11:59
Magnesium	**39.0**		**0.0100**	**1.00**	**0.200**	**mg/L**	1	29-Aug-2023 11:59
Manganese	**0.289**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	29-Aug-2023 11:59
Nickel	**0.0133**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	29-Aug-2023 11:59
Potassium	**1.07**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	29-Aug-2023 11:59
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	29-Aug-2023 11:59
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	29-Aug-2023 11:59
Sodium	**287**		**0.280**	**20.0**	**4.00**	**mg/L**	20	29-Aug-2023 12:44
Thallium	**0.000995**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	29-Aug-2023 11:59
Vanadium	**0.000923**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	29-Aug-2023 11:59
Zinc	**0.0207**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	29-Aug-2023 11:59
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 28-Aug-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	28-Aug-2023 14:22
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**						Analyst: MC
Oil and Grease	1.00	U	0.610	1.00	2.00	mg/L	1	25-Aug-2023 12:35
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**						Analyst: TH
Chemical Oxygen Demand	**16.0**		**5.00**	**7.50**	**15.0**	**mg/L**	1	24-Aug-2023 14:30
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**488**		**2.00**	**2.50**	**5.00**	**mg/L**	10	24-Aug-2023 22:07
Sulfate	**47.4**		**0.200**	**0.250**	**0.500**	**mg/L**	1	24-Aug-2023 22:01
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	23-Aug-2023 13:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: Groundwater Treatment Plant Quarterly Influent Samples WorkOrder:HS23081040

Sample ID: Trip Blank Lab ID:HS23081040-02

Collection Date: 16-Aug-2023 00:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: AKP
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:33
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	21-Aug-2023 17:33
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	21-Aug-2023 17:33
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:33
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	21-Aug-2023 17:33
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	21-Aug-2023 17:33
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	21-Aug-2023 17:33
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: Groundwater Treatment Plant Quarterly Influent Samples WorkOrder:HS23081040

Sample ID: Trip Blank Lab ID:HS23081040-02

Collection Date: 16-Aug-2023 00:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: AKP
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
cis-1,3-Dichloropropene	1.0	U	0.10	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
m,p-Xylene	2.0	U	0.50	2.0	2.0	ug/L	1	21-Aug-2023 17:33
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	21-Aug-2023 17:33
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:33
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:33
Surr: 1,2-Dichloroethane-d4	*103*			**0**	*81-118*	*%REC*	*1*	*21-Aug-2023 17:33*
Surr: 4-Bromofluorobenzene	*89.0*			**0**	*85-114*	*%REC*	*1*	*21-Aug-2023 17:33*
Surr: Dibromofluoromethane	*104*			**0**	*80-119*	*%REC*	*1*	*21-Aug-2023 17:33*
Surr: Toluene-d8	*105*			**0**	*89-112*	*%REC*	*1*	*21-Aug-2023 17:33*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Batch ID: 199190 **Start Date:** 18 Aug 2023 12:01 **End Date:** 18 Aug 2023 12:01
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23081040-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 199483 **Start Date:** 24 Aug 2023 14:30 **End Date:** 24 Aug 2023 14:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23081040-01		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 199581 **Start Date:** 28 Aug 2023 09:00 **End Date:** 28 Aug 2023 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23081040-01		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 199190 (1)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS23081040-01	LH18/24-SP140_081623	16 Aug 2023 13:00		18 Aug 2023 12:01	28 Aug 2023 17:29	10
Batch ID: 199483 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS23081040-01	LH18/24-SP140_081623	16 Aug 2023 13:00		24 Aug 2023 14:30	29 Aug 2023 12:44	20
HS23081040-01	LH18/24-SP140_081623	16 Aug 2023 13:00		24 Aug 2023 14:30	29 Aug 2023 11:59	1
Batch ID: 199581 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS23081040-01	LH18/24-SP140_081623	16 Aug 2023 13:00		28 Aug 2023 09:00	28 Aug 2023 14:22	1
Batch ID: R444516 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23081040-01	LH18/24-SP140_081623	16 Aug 2023 13:00			21 Aug 2023 18:55	100
HS23081040-01	LH18/24-SP140_081623	16 Aug 2023 13:00			21 Aug 2023 18:34	10
HS23081040-02	Trip Blank	16 Aug 2023 00:00			21 Aug 2023 17:33	1
Batch ID: R444643 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS23081040-01	LH18/24-SP140_081623	16 Aug 2023 13:00			23 Aug 2023 13:30	1
Batch ID: R444779 (0)	**Test Name :** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993				**Matrix:** Water	
HS23081040-01	LH18/24-SP140_081623	16 Aug 2023 13:00			24 Aug 2023 14:30	1
Batch ID: R444810 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS23081040-01	LH18/24-SP140_081623	16 Aug 2023 13:00			24 Aug 2023 22:07	10
HS23081040-01	LH18/24-SP140_081623	16 Aug 2023 13:00			24 Aug 2023 22:01	1
Batch ID: R444849 (0)	**Test Name :** OIL & GREASE (HEM) BY E1664A				**Matrix:** Water	
HS23081040-01	LH18/24-SP140_081623	16 Aug 2023 13:00			25 Aug 2023 12:35	1

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-199483** Units: **mg/L** Analysis Date: **29-Aug-2023 11:55**
Client ID: Run ID: **ICPMS06_445040** SeqNo: **7514575** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.002191	0.0100								J
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	1.00	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Iron	1.00	0.200								U
Lead	0.00125	0.00500								U
Magnesium	1.00	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	1.00	0.200								U
Selenium	0.00250	0.00500								U
Silver	0.000500	0.00500								U
Sodium	1.00	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: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-199483** Units: **mg/L** Analysis Date: **28-Aug-2023 18:38**
Client ID: Run ID: **ICPMS07_444934** SeqNo: **7513278** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1026	0.0100	0.1	0	103	84 - 117				
Antimony	0.04958	0.00500	0.05	0	99.2	85 - 117				
Arsenic	0.05031	0.00500	0.05	0	101	84 - 116				
Barium	0.05019	0.00500	0.05	0	100	86 - 114				
Beryllium	0.04922	0.00200	0.05	0	98.4	83 - 121				
Cadmium	0.05067	0.00200	0.05	0	101	87 - 115				
Calcium	4.935	0.500	5	0	98.7	87 - 118				
Chromium	0.04964	0.00500	0.05	0	99.3	85 - 116				
Cobalt	0.05028	0.00500	0.05	0	101	86 - 115				
Iron	5.046	0.200	5	0	101	87 - 118				
Lead	0.04406	0.00500	0.05	0	88.1	88 - 115				
Magnesium	5.067	0.200	5	0	101	83 - 118				
Manganese	0.05008	0.00500	0.05	0	100	87 - 115				
Nickel	0.05027	0.00500	0.05	0	101	85 - 117				
Potassium	4.998	0.200	5	0	100.0	87 - 115				
Selenium	0.05109	0.00500	0.05	0	102	80 - 120				
Silver	0.04768	0.00500	0.05	0	95.4	85 - 116				
Sodium	4.997	0.200	5	0	99.9	85 - 117				
Vanadium	0.04832	0.00500	0.05	0	96.6	86 - 115				
Zinc	0.0518	0.00500	0.05	0	104	83 - 119				

LCS Sample ID: **LCS-199483** Units: **mg/L** Analysis Date: **29-Aug-2023 12:42**
Client ID: Run ID: **ICPMS06_445040** SeqNo: **7514707** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04595	0.00200	0.05	0	91.9	82 - 116				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS23081076-01MS** Units: **mg/L** Analysis Date: **29-Aug-2023 12:01**
Client ID: Run ID: **ICPMS06_445040** SeqNo: **7514578** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.113	0.0100	0.1	0.01045	103	84 - 117				
Antimony	0.04911	0.00500	0.05	0.000303	97.6	85 - 117				
Arsenic	0.05285	0.00500	0.05	0.000623	104	84 - 116				
Barium	0.2444	0.00500	0.05	0.1946	99.5	86 - 114				
Beryllium	0.04736	0.00200	0.05	0.00021	94.3	83 - 121				
Cadmium	0.05054	0.00200	0.05	0.000267	101	87 - 115				
Calcium	19.28	0.500	5	13.49	116	87 - 118				
Chromium	0.04996	0.00500	0.05	0.000317	99.3	85 - 116				
Cobalt	0.04873	0.00500	0.05	0.000228	97.0	86 - 115				
Iron	5.098	0.200	5	0.04319	101	87 - 118				
Lead	0.05223	0.00500	0.05	0.000274	104	88 - 115				
Magnesium	22.87	0.200	5	17.73	103	83 - 118				
Manganese	0.07635	0.00500	0.05	0.02673	99.3	87 - 115				
Nickel	0.04791	0.00500	0.05	0.000456	94.9	85 - 117				
Potassium	7.195	0.200	5	2.133	101	87 - 115				
Selenium	0.03378	0.00500	0.05	-0.00135	70.2	80 - 120				S
Silver	0.04924	0.00500	0.05	0.000247	98.0	85 - 116				
Sodium	832.2	0.200	5	822.2	200	85 - 117				SEO
Thallium	0.04173	0.00200	0.05	0.000577	82.3	82 - 116				
Vanadium	0.05143	0.00500	0.05	0.001615	99.6	86 - 115				
Zinc	0.05477	0.00500	0.05	0.003792	102	83 - 119				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS23081076-01MSD** Units: **mg/L** Analysis Date: **28-Aug-2023 18:50**
Client ID: Run ID: **ICPMS07_444934** SeqNo: **7513284** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1127	0.0100	0.1	0.01045	102	84 - 117	0.113	0.273	20	
Antimony	0.05179	0.00500	0.05	0.000303	103	85 - 117	0.04911	5.32	20	
Arsenic	0.05436	0.00500	0.05	0.000623	107	84 - 116	0.05285	2.81	20	
Barium	0.2503	0.00500	0.05	0.1946	111	86 - 114	0.2444	2.4	20	
Beryllium	0.04821	0.00200	0.05	0.00021	96.0	83 - 121	0.04736	1.8	20	
Cadmium	0.05146	0.00200	0.05	0.000267	102	87 - 115	0.05054	1.79	20	
Calcium	19.04	0.500	5	13.49	111	87 - 118	19.28	1.21	20	
Chromium	0.05178	0.00500	0.05	0.000317	103	85 - 116	0.04996	3.6	20	
Cobalt	0.05182	0.00500	0.05	0.000228	103	86 - 115	0.04873	6.14	20	
Iron	5.243	0.200	5	0.04319	104	87 - 118	5.098	2.79	20	
Lead	0.05168	0.00500	0.05	0.000274	103	88 - 115	0.05223	1.06	20	
Magnesium	23.37	0.200	5	17.73	113	83 - 118	22.87	2.2	20	
Manganese	0.07942	0.00500	0.05	0.02673	105	87 - 115	0.07635	3.94	20	
Nickel	0.05119	0.00500	0.05	0.000456	101	85 - 117	0.04791	6.62	20	
Potassium	7.387	0.200	5	2.133	105	87 - 115	7.195	2.63	20	
Selenium	0.03348	0.00500	0.05	-0.00135	69.7	80 - 120	0.03378	0.88	20	S
Silver	0.04785	0.00500	0.05	0.000247	95.2	85 - 116	0.04924	2.87	20	
Sodium	857.9	0.200	5	822.2	712	85 - 117	832.2	3.03	20	SEO
Thallium	0.04316	0.00200	0.05	0.000577	85.2	82 - 116	0.04173	3.36	20	
Vanadium	0.05594	0.00500	0.05	0.001615	109	86 - 115	0.05143	8.41	20	
Zinc	0.05512	0.00500	0.05	0.003792	103	83 - 119	0.05477	0.639	20	

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS23081076-01PDS** Units: **mg/L** Analysis Date: **28-Aug-2023 18:52**
Client ID: Run ID: **ICPMS07_444934** SeqNo: **7513285** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1116	0.0100	0.1	0.01045	101	80 - 120				
Antimony	0.09859	0.00500	0.1	0.000303	98.3	80 - 120				
Arsenic	0.1048	0.00500	0.1	0.000623	104	80 - 120				
Barium	0.2943	0.00500	0.1	0.1946	99.7	80 - 120				
Beryllium	0.09586	0.00200	0.1	0.00021	95.6	80 - 120				
Cadmium	0.1009	0.00200	0.1	0.000267	101	80 - 120				
Calcium	25.45	0.500	10	13.49	120	80 - 120				
Chromium	0.101	0.00500	0.1	0.000317	101	80 - 120				
Cobalt	0.1001	0.00500	0.1	0.000228	99.9	80 - 120				
Iron	10.15	0.200	10	0.04319	101	80 - 120				
Lead	0.1	0.00500	0.1	0.000274	99.8	80 - 120				
Magnesium	27.58	0.200	10	17.73	98.5	80 - 120				
Manganese	0.1274	0.00500	0.1	0.02673	101	80 - 120				
Nickel	0.09794	0.00500	0.1	0.000456	97.5	80 - 120				
Potassium	12.38	0.200	10	2.133	102	80 - 120				
Selenium	0.1019	0.00500	0.1	-0.00135	103	80 - 120				
Silver	0.09355	0.00500	0.1	0.000247	93.3	80 - 120				
Thallium	0.0957	0.00200	0.1	0.000577	95.1	80 - 120				
Vanadium	0.1047	0.00500	0.1	0.001615	103	80 - 120				
Zinc	0.1046	0.00500	0.1	0.003792	101	80 - 120				

PDS Sample ID: **HS23081076-01PDS** Units: **mg/L** Analysis Date: **29-Aug-2023 12:09**
Client ID: Run ID: **ICPMS06_445040** SeqNo: **7514606** PrepDate: **24-Aug-2023** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	1788	20.0	1000	835.1	95.3	80 - 120				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS23081076-01SD** Units: **mg/L** Analysis Date: **28-Aug-2023 18:45**
Client ID: Run ID: **ICPMS07_444934** SeqNo: **7513281** PrepDate: **24-Aug-2023** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.01548	0.0500					0.01045	0	10	J
Antimony	0	0.0250					0.000303	0	10	U
Arsenic	0	0.0250					0.000623	0	10	U
Barium	0.1992	0.0250					0.1946	2.32	10	
Beryllium	0	0.0100					0.00021	0	10	U
Cadmium	0	0.0100					0.000267	0	10	U
Calcium	13.61	2.50					13.49	0.845	10	
Chromium	0	0.0250					0.000317	0	10	U
Cobalt	0	0.0250					0.000228	0	10	U
Iron	0.06114	1.00					0.04319	0	10	J
Lead	0	0.0250					0.000274	0	10	U
Magnesium	18.22	1.00					17.73	2.75	10	
Manganese	0.02749	0.0250					0.02673	2.84	10	
Nickel	0	0.0250					0.000456	0	10	U
Potassium	2.059	1.00					2.133	3.48	10	
Selenium	0	0.0250					-0.00135	0	10	U
Silver	0	0.0250					0.000247	0	10	U
Sodium	849.2	1.00					822.2	3.28	10	
Thallium	0	0.0100					0.000577	0	10	U
Vanadium	0.01104	0.0250					0.001615	0	10	J
Zinc	0	0.0250					0.003792	0	10	U

SD Sample ID: **HS23081076-01SD** Units: **mg/L** Analysis Date: **29-Aug-2023 12:07**
Client ID: Run ID: **ICPMS06_445040** SeqNo: **7514605** PrepDate: **24-Aug-2023** DF: **500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Sodium	896.2	100					835.1	7.33	10	

The following samples were analyzed in this batch: HS23081040-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: 199581 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-199581** Units: **mg/L** Analysis Date: **28-Aug-2023 14:17**
Client ID: Run ID: **HG04_444967** SeqNo: **7512560** PrepDate: **28-Aug-2023** 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-199581** Units: **mg/L** Analysis Date: **28-Aug-2023 14:20**
Client ID: Run ID: **HG04_444967** SeqNo: **7512561** PrepDate: **28-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00472	0.000200	0.005	0	94.4	82 - 119				

MS Sample ID: **HS23081040-01MS** Units: **mg/L** Analysis Date: **28-Aug-2023 14:24**
Client ID: **LH18/24-SP140_081623** Run ID: **HG04_444967** SeqNo: **7512563** PrepDate: **28-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00465	0.000200	0.005	0.00001800	92.6	82 - 119				

MSD Sample ID: **HS23081040-01MSD** Units: **mg/L** Analysis Date: **28-Aug-2023 14:25**
Client ID: **LH18/24-SP140_081623** Run ID: **HG04_444967** SeqNo: **7512564** PrepDate: **28-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00461	0.000200	0.005	0.00001800	91.8	82 - 119	0.004650	0.864	20	

The following samples were analyzed in this batch: HS23081040-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: 199190 (1) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-199190** Units: **ug/L** Analysis Date: **28-Aug-2023 15:23**
Client ID: Run ID: **SV-6_444955** SeqNo: **7514237** PrepDate: **18-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.010	0.030								U
Surr: 2-Fluorobiphenyl	*0.07044*	*0*	*0.08*	*0*	*88.1*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.08868*	*0*	*0.08*	*0*	*111*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06631*	*0*	*0.08*	*0*	*82.9*	*40 - 140*				

LCS Sample ID: **LCS1-199190** Units: **ug/L** Analysis Date: **28-Aug-2023 15:41**
Client ID: Run ID: **SV-6_444955** SeqNo: **7514238** PrepDate: **18-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.05953	0.030	0.08	0	74.4	40 - 140				
Surr: 2-Fluorobiphenyl	*0.08498*	*0*	*0.08*	*0*	*106*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.08771*	*0*	*0.08*	*0*	*110*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.09846*	*0*	*0.08*	*0*	*123*	*40 - 140*				

LCSD Sample ID: **LCSD1-199190** Units: **ug/L** Analysis Date: **28-Aug-2023 15:59**
Client ID: Run ID: **SV-6_444955** SeqNo: **7514239** PrepDate: **18-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.06571	0.030	0.08	0	82.1	40 - 140	0.05953	9.87	20	
Surr: 2-Fluorobiphenyl	*0.1042*	*0*	*0.08*	*0*	*130*	*40 - 140*	*0.08498*	*20.3*	*20*	R
Surr: 4-Terphenyl-d14	*0.08064*	*0*	*0.08*	*0*	*101*	*40 - 140*	*0.08771*	*8.39*	*20*	
Surr: Nitrobenzene-d5	*0.09881*	*0*	*0.08*	*0*	*124*	*40 - 140*	*0.09846*	*0.358*	*20*	

The following samples were analyzed in this batch: HS23081040-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230821** Units: **ug/L** Analysis Date: **21-Aug-2023 10:14**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502585** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230821** Units: **ug/L** Analysis Date: **21-Aug-2023 10:14**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502585** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	2.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*50.59*	*1.0*	*50*	*0*	*101*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*45.42*	*1.0*	*50*	*0*	*90.8*	*85 - 114*				
Surr: Dibromofluoromethane	*51.32*	*1.0*	*50*	*0*	*103*	*80 - 119*				
Surr: Toluene-d8	*51.92*	*1.0*	*50*	*0*	*104*	*89 - 112*				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230821** Units: **ug/L** Analysis Date: **21-Aug-2023 09:33**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502584** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.97	1.0	20	0	105	78 - 124				
1,1,1-Trichloroethane	22	1.0	20	0	110	74 - 131				
1,1,2,2-Tetrachloroethane	19.15	1.0	20	0	95.8	71 - 121				
1,1,2-Trichloroethane	19.99	1.0	20	0	99.9	80 - 119				
1,1-Dichloroethane	18.81	1.0	20	0	94.1	77 - 125				
1,1-Dichloroethene	20.23	1.0	20	0	101	71 - 131				
1,1-Dichloropropene	22.34	1.0	20	0	112	78 - 125				
1,2,3-Trichlorobenzene	20.6	1.0	20	0	103	69 - 129				
1,2,3-Trichloropropane	19.58	1.0	20	0	97.9	73 - 122				
1,2,4-Trichlorobenzene	21.29	1.0	20	0	106	69 - 130				
1,2,4-Trimethylbenzene	21.51	1.0	20	0	108	76 - 124				
1,2-Dibromo-3-chloropropane	19.6	1.0	20	0	98.0	62 - 128				
1,2-Dibromoethane	19.89	1.0	20	0	99.4	77 - 121				
1,2-Dichlorobenzene	20.59	1.0	20	0	103	80 - 119				
1,2-Dichloroethane	19.49	1.0	20	0	97.5	73 - 128				
1,2-Dichloropropane	19.41	1.0	20	0	97.1	78 - 122				
1,3,5-Trimethylbenzene	21.99	1.0	20	0	110	75 - 124				
1,3-Dichlorobenzene	21.33	1.0	20	0	107	80 - 119				
1,3-Dichloropropane	19.7	1.0	20	0	98.5	80 - 119				
1,4-Dichlorobenzene	21.12	1.0	20	0	106	79 - 118				
2,2-Dichloropropane	21.52	1.0	20	0	108	60 - 139				
2-Butanone	36.88	2.0	40	0	92.2	56 - 143				
2-Chlorotoluene	21.28	1.0	20	0	106	79 - 122				
2-Hexanone	38.55	2.0	40	0	96.4	57 - 139				
4-Chlorotoluene	21.3	1.0	20	0	107	78 - 122				
4-Isopropyltoluene	23.02	1.0	20	0	115	77 - 127				
4-Methyl-2-pentanone	37.25	2.0	40	0	93.1	67 - 130				
Acetone	46.33	2.0	40	0	116	39 - 160				
Benzene	20.58	1.0	20	0	103	79 - 120				
Bromobenzene	21.06	1.0	20	0	105	80 - 120				
Bromochloromethane	19.93	1.0	20	0	99.6	78 - 123				
Bromodichloromethane	20.14	1.0	20	0	101	79 - 125				
Bromoform	21.06	1.0	20	0	105	66 - 130				
Bromomethane	19.37	1.0	20	0	96.8	53 - 141				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230821** Units: **ug/L** Analysis Date: **21-Aug-2023 09:33**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502584** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	40.25	2.0	40	0	101	64 - 133				
Carbon tetrachloride	22.46	1.0	20	0	112	72 - 136				
Chlorobenzene	20.55	1.0	20	0	103	82 - 118				
Chloroethane	19.86	1.0	20	0	99.3	60 - 138				
Chloroform	19.98	1.0	20	0	99.9	79 - 124				
Chloromethane	19.99	1.0	20	0	100.0	50 - 139				
cis-1,2-Dichloroethene	20.71	1.0	20	0	104	78 - 123				
cis-1,3-Dichloropropene	20.07	1.0	20	0	100	75 - 124				
Dibromochloromethane	20.61	1.0	20	0	103	74 - 126				
Dibromomethane	19.4	1.0	20	0	97.0	79 - 123				
Dichlorodifluoromethane	21.29	1.0	20	0	106	32 - 152				
Ethylbenzene	21.78	1.0	20	0	109	79 - 121				
Hexachlorobutadiene	31.98	1.0	20	0	160	66 - 134				S
Isopropylbenzene	21.93	1.0	20	0	110	72 - 131				
m,p-Xylene	43.38	2.0	40	0	108	80 - 121				
Methylene chloride	19.08	2.0	20	0	95.4	74 - 124				
Naphthalene	18.88	1.0	20	0	94.4	61 - 128				
n-Butylbenzene	22.38	1.0	20	0	112	75 - 128				
n-Propylbenzene	23.15	1.0	20	0	116	76 - 126				
o-Xylene	20.8	1.0	20	0	104	78 - 122				
sec-Butylbenzene	23.72	1.0	20	0	119	77 - 126				
Styrene	21.46	1.0	20	0	107	78 - 123				
tert-Butylbenzene	23.1	1.0	20	0	115	78 - 124				
Tetrachloroethene	22.67	1.0	20	0	113	74 - 129				
Toluene	20.68	1.0	20	0	103	80 - 121				
trans-1,2-Dichloroethene	19.69	1.0	20	0	98.5	75 - 124				
trans-1,3-Dichloropropene	19.3	1.0	20	0	96.5	73 - 127				
Trichloroethene	20.85	1.0	20	0	104	79 - 123				
Trichlorofluoromethane	21.41	1.0	20	0	107	65 - 141				
Vinyl chloride	20.42	1.0	20	0	102	58 - 137				
Surr: 1,2-Dichloroethane-d4	*49.59*	*1.0*	*50*	*0*	*99.2*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.38*	*1.0*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*51.52*	*1.0*	*50*	*0*	*103*	*80 - 119*				
Surr: Toluene-d8	*48.01*	*1.0*	*50*	*0*	*96.0*	*89 - 112*				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23081216-13MS** Units: **ug/L** Analysis Date: **21-Aug-2023 15:51**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502587** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	21.26	1.0	20	0	106	78 - 124				
1,1,1-Trichloroethane	21.05	1.0	20	0	105	74 - 131				
1,1,2,2-Tetrachloroethane	19.51	1.0	20	0	97.5	71 - 121				
1,1,2-Trichloroethane	20.95	1.0	20	0	105	80 - 119				
1,1-Dichloroethane	18.57	1.0	20	0	92.9	77 - 125				
1,1-Dichloroethene	20.48	1.0	20	0	102	71 - 131				
1,1-Dichloropropene	22.51	1.0	20	0	113	78 - 125				
1,2,3-Trichlorobenzene	20.15	1.0	20	0	101	69 - 129				
1,2,3-Trichloropropane	27.17	1.0	20	0	136	73 - 122				S
1,2,4-Trichlorobenzene	21.36	1.0	20	0	107	69 - 130				
1,2,4-Trimethylbenzene	22.36	1.0	20	0	112	76 - 124				
1,2-Dibromo-3-chloropropane	18.55	1.0	20	0	92.8	62 - 128				
1,2-Dibromoethane	21.1	1.0	20	0	106	77 - 121				
1,2-Dichlorobenzene	21.09	1.0	20	0	105	80 - 119				
1,2-Dichloroethane	19.46	1.0	20	0	97.3	73 - 128				
1,2-Dichloropropane	19.07	1.0	20	0	95.4	78 - 122				
1,3,5-Trimethylbenzene	22.73	1.0	20	0	114	75 - 124				
1,3-Dichlorobenzene	21.72	1.0	20	0	109	80 - 119				
1,3-Dichloropropane	20.48	1.0	20	0	102	80 - 119				
1,4-Dichlorobenzene	21.93	1.0	20	0	110	79 - 118				
2,2-Dichloropropane	20.15	1.0	20	0	101	60 - 139				
2-Butanone	29.97	2.0	40	0	74.9	56 - 143				
2-Chlorotoluene	22.32	1.0	20	0	112	79 - 122				
2-Hexanone	36.91	2.0	40	0	92.3	57 - 139				
4-Chlorotoluene	22.35	1.0	20	0	112	78 - 122				
4-Isopropyltoluene	23.75	1.0	20	0	119	77 - 127				
4-Methyl-2-pentanone	38.07	2.0	40	0	95.2	67 - 130				
Acetone	33.05	2.0	40	0	82.6	39 - 160				
Benzene	21.18	1.0	20	0	106	79 - 120				
Bromobenzene	21.84	1.0	20	0	109	80 - 120				
Bromochloromethane	19.27	1.0	20	0	96.4	78 - 123				
Bromodichloromethane	19.68	1.0	20	0	98.4	79 - 125				
Bromoform	20.6	1.0	20	0	103	66 - 130				
Bromomethane	18.46	1.0	20	0	92.3	53 - 141				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23081216-13MS** Units: **ug/L** Analysis Date: **21-Aug-2023 15:51**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502587** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	40.9	2.0	40	0	102	64 - 133				
Carbon tetrachloride	22.4	1.0	20	0	112	72 - 136				
Chlorobenzene	21.28	1.0	20	0	106	82 - 118				
Chloroethane	20.36	1.0	20	0	102	60 - 138				
Chloroform	19.4	1.0	20	0	97.0	79 - 124				
Chloromethane	18.4	1.0	20	0	92.0	50 - 139				
cis-1,2-Dichloroethene	19.73	1.0	20	0	98.7	78 - 123				
cis-1,3-Dichloropropene	19.82	1.0	20	0	99.1	75 - 124				
Dibromochloromethane	20.55	1.0	20	0	103	74 - 126				
Dibromomethane	19.19	1.0	20	0	95.9	79 - 123				
Dichlorodifluoromethane	21.29	1.0	20	0	106	32 - 152				
Ethylbenzene	22.62	1.0	20	0	113	79 - 121				
Hexachlorobutadiene	30.37	1.0	20	0	152	66 - 134				S
Isopropylbenzene	23.39	1.0	20	0	117	72 - 131				
m,p-Xylene	44.82	2.0	40	0	112	80 - 121				
Methylene chloride	18.27	2.0	20	0	91.4	74 - 124				
Naphthalene	18.89	1.0	20	0	94.5	61 - 128				
n-Butylbenzene	22.72	1.0	20	0	114	75 - 128				
n-Propylbenzene	24.08	1.0	20	0	120	76 - 126				
o-Xylene	21.94	1.0	20	0	110	78 - 122				
sec-Butylbenzene	24.81	1.0	20	0	124	77 - 126				
Styrene	22.11	1.0	20	0	111	78 - 123				
tert-Butylbenzene	24.13	1.0	20	0	121	78 - 124				
Tetrachloroethene	24.39	1.0	20	0	122	74 - 129				
Toluene	21.59	1.0	20	0	108	80 - 121				
trans-1,2-Dichloroethene	19.47	1.0	20	0	97.4	75 - 124				
trans-1,3-Dichloropropene	18.36	1.0	20	0	91.8	73 - 127				
Trichloroethene	21.85	1.0	20	0	109	79 - 123				
Trichlorofluoromethane	21.82	1.0	20	0	109	65 - 141				
Vinyl chloride	21.07	1.0	20	0	105	58 - 137				
Surr: 1,2-Dichloroethane-d4	*50.41*	*1.0*	*50*	*0*	*101*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47.21*	*1.0*	*50*	*0*	*94.4*	*85 - 114*				
Surr: Dibromofluoromethane	*52.15*	*1.0*	*50*	*0*	*104*	*80 - 119*				
Surr: Toluene-d8	*52.14*	*1.0*	*50*	*0*	*104*	*89 - 112*				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23081216-13MSD** Units: **ug/L** Analysis Date: **21-Aug-2023 16:11**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502588** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.62	1.0	20	0	98.1	78 - 124	21.26	8.01	20	
1,1,1-Trichloroethane	20.62	1.0	20	0	103	74 - 131	21.05	2.04	20	
1,1,2,2-Tetrachloroethane	17.87	1.0	20	0	89.4	71 - 121	19.51	8.73	20	
1,1,2-Trichloroethane	19.89	1.0	20	0	99.4	80 - 119	20.95	5.22	20	
1,1-Dichloroethane	17.93	1.0	20	0	89.7	77 - 125	18.57	3.52	20	
1,1-Dichloroethene	19.99	1.0	20	0	99.9	71 - 131	20.48	2.41	20	
1,1-Dichloropropene	21.18	1.0	20	0	106	78 - 125	22.51	6.07	20	
1,2,3-Trichlorobenzene	18.96	1.0	20	0	94.8	69 - 129	20.15	6.11	20	
1,2,3-Trichloropropane	26.3	1.0	20	0	131	73 - 122	27.17	3.25	20	S
1,2,4-Trichlorobenzene	19.34	1.0	20	0	96.7	69 - 130	21.36	9.94	20	
1,2,4-Trimethylbenzene	19.95	1.0	20	0	99.8	76 - 124	22.36	11.4	20	
1,2-Dibromo-3-chloropropane	17.52	1.0	20	0	87.6	62 - 128	18.55	5.73	20	
1,2-Dibromoethane	19.83	1.0	20	0	99.2	77 - 121	21.1	6.2	20	
1,2-Dichlorobenzene	18.92	1.0	20	0	94.6	80 - 119	21.09	10.9	20	
1,2-Dichloroethane	18.73	1.0	20	0	93.7	73 - 128	19.46	3.78	20	
1,2-Dichloropropane	18.94	1.0	20	0	94.7	78 - 122	19.07	0.686	20	
1,3,5-Trimethylbenzene	20.45	1.0	20	0	102	75 - 124	22.73	10.5	20	
1,3-Dichlorobenzene	19.9	1.0	20	0	99.5	80 - 119	21.72	8.75	20	
1,3-Dichloropropane	19.22	1.0	20	0	96.1	80 - 119	20.48	6.32	20	
1,4-Dichlorobenzene	20.14	1.0	20	0	101	79 - 118	21.93	8.5	20	
2,2-Dichloropropane	18.97	1.0	20	0	94.9	60 - 139	20.15	6.01	20	
2-Butanone	32.77	2.0	40	0	81.9	56 - 143	29.97	8.9	20	
2-Chlorotoluene	19.94	1.0	20	0	99.7	79 - 122	22.32	11.3	20	
2-Hexanone	36.44	2.0	40	0	91.1	57 - 139	36.91	1.28	20	
4-Chlorotoluene	20.14	1.0	20	0	101	78 - 122	22.35	10.4	20	
4-Isopropyltoluene	21.67	1.0	20	0	108	77 - 127	23.75	9.15	20	
4-Methyl-2-pentanone	36.18	2.0	40	0	90.5	67 - 130	38.07	5.1	20	
Acetone	31.74	2.0	40	0	79.4	39 - 160	33.05	4.03	20	
Benzene	19.88	1.0	20	0	99.4	79 - 120	21.18	6.35	20	
Bromobenzene	19.78	1.0	20	0	98.9	80 - 120	21.84	9.93	20	
Bromochloromethane	18.28	1.0	20	0	91.4	78 - 123	19.27	5.25	20	
Bromodichloromethane	18.56	1.0	20	0	92.8	79 - 125	19.68	5.84	20	
Bromoform	19.35	1.0	20	0	96.8	66 - 130	20.6	6.22	20	
Bromomethane	17.92	1.0	20	0	89.6	53 - 141	18.46	2.97	20	

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23081216-13MSD** Units: **ug/L** Analysis Date: **21-Aug-2023 16:11**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502588** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	38.64	2.0	40	0	96.6	64 - 133	40.9	5.68	20	
Carbon tetrachloride	21.47	1.0	20	0	107	72 - 136	22.4	4.22	20	
Chlorobenzene	19.99	1.0	20	0	100.0	82 - 118	21.28	6.26	20	
Chloroethane	18.59	1.0	20	0	93.0	60 - 138	20.36	9.08	20	
Chloroform	18.56	1.0	20	0	92.8	79 - 124	19.4	4.39	20	
Chloromethane	18.39	1.0	20	0	91.9	50 - 139	18.4	0.0629	20	
cis-1,2-Dichloroethene	19.01	1.0	20	0	95.1	78 - 123	19.73	3.7	20	
cis-1,3-Dichloropropene	18.71	1.0	20	0	93.6	75 - 124	19.82	5.72	20	
Dibromochloromethane	19.32	1.0	20	0	96.6	74 - 126	20.55	6.19	20	
Dibromomethane	18.84	1.0	20	0	94.2	79 - 123	19.19	1.86	20	
Dichlorodifluoromethane	20.42	1.0	20	0	102	32 - 152	21.29	4.18	20	
Ethylbenzene	21.1	1.0	20	0	106	79 - 121	22.62	6.95	20	
Hexachlorobutadiene	28.43	1.0	20	0	142	66 - 134	30.37	6.62	20	S
Isopropylbenzene	21.63	1.0	20	0	108	72 - 131	23.39	7.82	20	
m,p-Xylene	42.04	2.0	40	0	105	80 - 121	44.82	6.4	20	
Methylene chloride	17.67	2.0	20	0	88.3	74 - 124	18.27	3.38	20	
Naphthalene	17.91	1.0	20	0	89.6	61 - 128	18.89	5.31	20	
n-Butylbenzene	20.58	1.0	20	0	103	75 - 128	22.72	9.87	20	
n-Propylbenzene	21.69	1.0	20	0	108	76 - 126	24.08	10.5	20	
o-Xylene	20.36	1.0	20	0	102	78 - 122	21.94	7.46	20	
sec-Butylbenzene	22.3	1.0	20	0	112	77 - 126	24.81	10.6	20	
Styrene	20.2	1.0	20	0	101	78 - 123	22.11	9.04	20	
tert-Butylbenzene	21.69	1.0	20	0	108	78 - 124	24.13	10.6	20	
Tetrachloroethene	22.42	1.0	20	0	112	74 - 129	24.39	8.41	20	
Toluene	20.02	1.0	20	0	100	80 - 121	21.59	7.55	20	
trans-1,2-Dichloroethene	18.66	1.0	20	0	93.3	75 - 124	19.47	4.28	20	
trans-1,3-Dichloropropene	18.08	1.0	20	0	90.4	73 - 127	18.36	1.55	20	
Trichloroethene	20.89	1.0	20	0	104	79 - 123	21.85	4.49	20	
Trichlorofluoromethane	20.97	1.0	20	0	105	65 - 141	21.82	3.95	20	
Vinyl chloride	20.12	1.0	20	0	101	58 - 137	21.07	4.62	20	
Surr: 1,2-Dichloroethane-d4	*50.56*	*1.0*	*50*	*0*	*101*	*81 - 118*	*50.41*	*0.303*	*20*	
Surr: 4-Bromofluorobenzene	*47.12*	*1.0*	*50*	*0*	*94.2*	*85 - 114*	*47.21*	*0.191*	*20*	
Surr: Dibromofluoromethane	*51.84*	*1.0*	*50*	*0*	*104*	*80 - 119*	*52.15*	*0.598*	*20*	
Surr: Toluene-d8	*51.04*	*1.0*	*50*	*0*	*102*	*89 - 112*	*52.14*	*2.13*	*20*	

ALS Houston, US Date: 29-Aug-23

Client:	Bhate Environmental Associates, Inc.
Project:	Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder:	HS23081040

QC BATCH REPORT

Batch ID:	**R444516 (0)**	**Instrument:**	**VOA6**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS23081040-01 HS23081040-02

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: R444779 (0) **Instrument: WetChem_HS** **Method: CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993**

MBLK Sample ID: **MBLK-R444779** Units: **mg/L** Analysis Date: **24-Aug-2023 14:30**
Client ID: Run ID: **WetChem_HS_444779** SeqNo: **7508240** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	7.50	15.0								U

LCS Sample ID: **LCS-R444779** Units: **mg/L** Analysis Date: **24-Aug-2023 14:30**
Client ID: Run ID: **WetChem_HS_444779** SeqNo: **7508239** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	99	15.0	100	0	99.0	85 - 115				

MS Sample ID: **HS23081058-01MS** Units: **mg/L** Analysis Date: **24-Aug-2023 14:30**
Client ID: Run ID: **WetChem_HS_444779** SeqNo: **7508242** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	61	15.0	50	13	96.0	80 - 120				

MSD Sample ID: **HS23081058-01MSD** Units: **mg/L** Analysis Date: **24-Aug-2023 14:30**
Client ID: Run ID: **WetChem_HS_444779** SeqNo: **7508241** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	60	15.0	50	13	94.0	80 - 120	61	1.65	20	

The following samples were analyzed in this batch: HS23081040-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: R444810 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **24-Aug-2023 21:26**
Client ID: Run ID: **ICS-Integrion_444810** SeqNo: **7509252** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **24-Aug-2023 21:32**
Client ID: Run ID: **ICS-Integrion_444810** SeqNo: **7509253** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.16	0.500	20	0	95.8	80 - 120				
Sulfate	20.18	0.500	20	0	101	80 - 120				

MS Sample ID: **HS23081487-01MS** Units: **mg/L** Analysis Date: **24-Aug-2023 21:44**
Client ID: Run ID: **ICS-Integrion_444810** SeqNo: **7509255** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	107.9	0.500	10	102.1	57.7	80 - 120				SEO
Sulfate	254.5	0.500	10	260.7	-61.8	80 - 120				SEO

MSD Sample ID: **HS23081487-01MSD** Units: **mg/L** Analysis Date: **24-Aug-2023 21:49**
Client ID: Run ID: **ICS-Integrion_444810** SeqNo: **7509256** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	108	0.500	10	102.1	58.2	80 - 120	107.9	0.0398	20	SEO
Sulfate	254.1	0.500	10	260.7	-66.0	80 - 120	254.5	0.166	20	SEO

The following samples were analyzed in this batch: HS23081040-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

QC BATCH REPORT

Batch ID: R444849 (0) **Instrument: Balance1** **Method: OIL & GREASE (HEM) BY E1664A**

MBLK Sample ID: **WMBLK-08252023** Units: **mg/L** Analysis Date: **25-Aug-2023 12:35**
Client ID: Run ID: **Balance1_444849** SeqNo: **7509910** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	1.00	2.00								U

LCS Sample ID: **LCS-08252023** Units: **mg/L** Analysis Date: **25-Aug-2023 12:35**
Client ID: Run ID: **Balance1_444849** SeqNo: **7509908** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	44.7	2.00	40	0	112	78 - 114				

LCSD Sample ID: **LCSD-08252023** Units: **mg/L** Analysis Date: **25-Aug-2023 12:35**
Client ID: Run ID: **Balance1_444849** SeqNo: **7509909** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43.6	2.00	40	0	109	78 - 114	44.7	2.49	18	

MS Sample ID: **HS23081269-01MS** Units: **mg/L** Analysis Date: **25-Aug-2023 12:35**
Client ID: Run ID: **Balance1_444849** SeqNo: **7509898** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43	2.00	40	1.176	105	78 - 114				

The following samples were analyzed in this batch: HS23081040-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: **HS23081040**

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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 29-Aug-23

Sample Receipt Checklist

Work Order ID: HS23081040 **Date/Time Received:** 17-Aug-2023 09:50

Client Name: Bhate Environmental **Received by:** Malcolm Burleson

Completed By:	/S/ Belinda Gomez	17-Aug-2023 13:38	**Reviewed by:**	/S/ Nieka.Carson	17-Aug-2023 15:28
	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 ☐	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):	3.6uc/3.5c	ir31		
Cooler(s)/Kit(s):	49972			
Date/Time sample(s) sent to storage:	8/17/23 1340			
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:

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd., Suite 210 Houston, Tx. 77099 ATTN: Dane Wacasey

HS23081040

Bhate Environmental Associates, Inc.
Groundwater Treatment Plant Quarterly Influent Sam

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT QUARTERLY INFLUENT SAMPLES**	
Prepared By: Scott Beesinger	P. O. Number

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: ROD Volatiles	Total Metals	Oil & Grease	Chemical Oxygen Demand	Chloride & Sulfate	1, 4 - DIOXANE	Perchlorate				Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP140_081623	Water	08/16/23 / 13:00		4	3		1								HCL	
LH18/24-SP140_081623	Water	08/16/23 / 13:00		1		1									HNO3	
LH18/24-SP140_081623	Water	08/16/23 / 13:00		2					1	1					NONE	
LH18/24-SP140_081623	Water	08/16/23 / 13:00		1				1							H2SO4	
LH18/24-SP140_081623	Water	08/16/23 / 13:00		1							1				NONE	
Trip Blank	Water	08/16/23		2	2										HCL	

Additional Remarks: **STANDARD TURN AROUND TIME**

IR3) 3.6u2 -0.12 49TZ

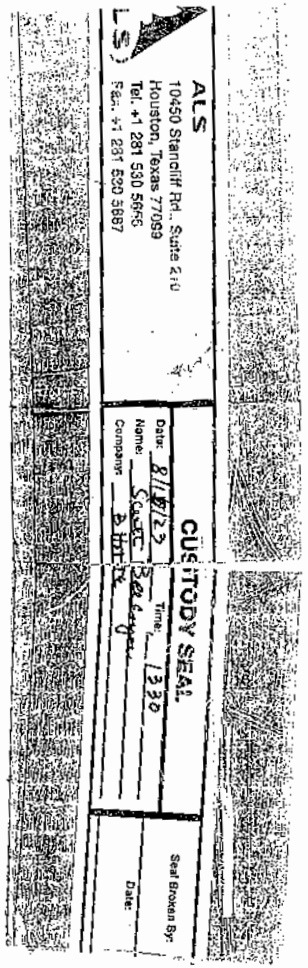
Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	08/16/23	13:30		08/17/2023	0950						

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:

(Word) S:\Forms\Chain of Custody - BiWeekly


ALS
10450 Stanciff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
CUSTODY SEAL
Date:
Name:
Company:
Time:
Seal Broken By:
Date:


(ALS)
ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINGER
APTIM ENVIROMENTAL & INFASTRUCTURE
1203-B EAST GRAND AVE.
PMB 202
MARSHALL, TX 75670
UNITED STATES US
SHIP DATE: 28DEC21
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3507
DIMS: 18x16x13 IN
TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LHAAP-67-3B081552-RG
INV:
PO:
DEPT:
FedEx
Express
PRIORITY OVERNIGHT
XA SGRA
77099
TX-US
IAH
4738674 16Aug2023 CGGA 5810S/7584/C008

August 21, 2023 Service Request No:E2300746

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: Perchlorates

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory August 17, 2023
For your reference, these analyses have been assigned our service request number **E2300746.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300745
Project:	Perchlorates	**Date Received:**	08/17/23
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 II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 08/17/23

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300403: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) sample was analyzed and reported in lieu of a MS/MSD for this extraction batch.

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:**E2300746
Project: Perchlorates

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300746-001	LH18/24-SP140	8/16/2023	1300

Service Request Summary

Folder #: **E2300746**
Client Name: ALS Environmental - US
Project Name: Perchlorates
Project Number:

Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: TWOODS
Date Received: 08/17/23
Internal Due Date: 9/1/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300746-001	LH18/24-SP140	Water	08/16/23 1300	**IV**

Service Request Summary

Folder #:	**E2300746**
Client Name:	ALS Environmental - US
Project Name:	Perchlorates
Project Number:	

Report To:	Bernadette Fini ALS Laboratory Group 10450 Stancliff Road Houston, TX 77099-4338 USA
Phone Number:	281-530-5656
Cell Number:	
Fax Number:	281-530-5887
E-mail:	bernadette.fini@alsglobal.com

Project Chemist:	James Guin
Originating Lab:	HOUSTON
Logged By:	TWOODS
Date Received:	08/17/23
Internal Due Date:	9/1/2023
QAP:	LAB QAP
Qualifier Set:	Lab Standard
Formset:	Lab Standard
Merged?:	Y
Report to MDL?:	Y
P.O. Number:	
EDD:	No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-AirArch 1

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
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L22-90	3/31/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
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	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: Colorado **COC ID:** 22747

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS23081040
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23081040-01**	**LH18/24-SP140_081623**	**Water**	**16 Aug 2023 13:00**
	SUB_Perch-6850			28 Aug 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

E2300746
ALS Laboratory Group
Perchlorates
5

Relinquished By: NR Date/Time:

Received By: Date/Time: 8.17.23 1245

Cooler ID(s): Temperature(s):

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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

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Phone (281)530-5656 Fax (281)530-5887
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Preparation Information Benchsheet

Prep Run#: 424977 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 8/17/23 13:11

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300744-001	LH18/24-SP650_081623_Between IX	.01	6850/ClO4 DOD			Water	10mL	
2	E2300744-002	LH18/24-SP650_081623_AIX	.01	6850/ClO4 DOD			Water	10mL	
3	E2300744-003	LH18/24-SP650_081623_BIX	.01	6850/ClO4 DOD			Water	10mL	
4	E2300745-001	LH18/24-SP650	.01	6850/ClO4 DOD			Water	10mL	
5	E2300746-001	LH18/24-SP140	.01	6850/ClO4 DOD			Water	10mL	
6	EQ2300403-01	MB		6850/ClO4			Liquid	10mL	
7	EQ2300403-02	LCS		6850/ClO4			Liquid	10mL	
8	EQ2300403-03	DLCS		6850/ClO4			Liquid	10mL	
9	K2309094-001	LGAC-INF-081423	.01	6850/ClO4			Water	10mL	
10	K2309094-002	LGAC-INT1-081423	.01	6850/ClO4			Water	10mL	
11	K2309094-003	LGAC-INT2-081423	.01	6850/ClO4			Water	10mL	
12	R2307250-005	2308071435B BLM-32-571	.01	6850/ClO4			Water	10mL	
13	R2307250-011	2308081426B BLM-32-632	.01	6850/ClO4			Water	10mL	
14	R2307325-004	2308100948A PL-12-570	.01	6850/ClO4			Water	10mL	
15	R2307325-009	2308101419A PL-12-800	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 230342 Logbook Ref: Perchlorate (1st Source) Expires On: 03/07/2024

EQ2300403-02 1.00µL EQ2300403-02 1.00µL EQ2300403-03 1.00µL EQ2300403-03 1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 230372 Logbook Ref: Perchlorate Internal Standard Expires On: 04/30/2024

E2300744-001	100.00µL	E2300744-002	100.00µL	E2300744-003	100.00µL	E2300745-001	100.00µL	E2300746-001	100.00µL	EQ2300403-01	100.00µL
EQ2300403-01	100.00µL	EQ2300403-02	100.00µL	EQ2300403-02	100.00µL	EQ2300403-03	100.00µL	EQ2300403-03	100.00µL	K2309094-001	100.00µL
K2309094-002	100.00µL	K2309094-003	100.00µL	R2307250-005	100.00µL	R2307250-011	100.00µL	R2307325-004	100.00µL	R2307325-009	100.00µL

Preparation Materials

Water HPLC Grade	HPLC water 5/18/23CG (229315)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 Luer-Lok Syringes	Luer-Lok Syringes (228117)
6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)				

Preparation Steps

Step: Preparation
Started: 8/17/23 13:11
Finished: 8/18/23 08:38
By: XMI
Comments

Preparation Information Benchsheet

Prep Run#: 424977
Team: Semivoa GCMS/XMI

Prep WorkFlow: GenExt28Day
Prep Method: Method

Status: Prepped
Prep Date/Time: 8/17/23 13:11

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300746
Project:	Perchlorates	**Date Collected:**	8/16/23 1300
Sample Matrix:	Water	**Date Received:**	8/17/23
Sample Name:	LH18/24-SP140	**Units:**	µg/L
Lab Code:	E2300746-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**19200**		200	100	50.0	2000	8/17/23	8/18/23 11:50	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300746
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300403-01	**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	8/17/23	8/18/23 09:00	424977	814330	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates
Sample Matrix: Water

Service Request: E2300746
Date Analyzed: 8/18/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 424977

	Lab Control Sample EQ2300403-02			Duplicate Lab Control Sample EQ2300403-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.114	0.100	114	0.102	0.100	102	84 - 119	11	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300746
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300403-02	**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	**0.114**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:06	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300746
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300403-03	**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	**0.102**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:11	424977	814330	

HS23081040-MSVOA-SW8260

ALS WO# HS23081040

01250213

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

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Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

Volatiles by EPA Volatiles Organics by Method 8260C

HS23081040-01	Collected	Received	Matrix	Basis
LH18/24-SP140_081623	08/16/23 13:00	08/17/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,1,1-Trichloroethane	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,1,2,2-Tetrachloroethane	ug/L	10	U	5.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,1,2-Trichloroethane	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,1-Dichloroethane	ug/L	11		2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,1-Dichloroethene	ug/L	57		2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,1-Dichloropropene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,2,3-Trichlorobenzene	ug/L	10	U	4.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,2,3-Trichloropropane	ug/L	10	U	5.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,2,4-Trichlorobenzene	ug/L	10	U	5.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,2,4-Trimethylbenzene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,2-Dibromo-3-chloropropane	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,2-Dibromoethane	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,2-Dichlorobenzene	ug/L	10	U	5.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,2-Dichloroethane	ug/L	34		2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,2-Dichloropropane	ug/L	10	U	5.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,3,5-Trimethylbenzene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,3-Dichlorobenzene	ug/L	10	U	4.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,3-Dichloropropane	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
1,4-Dichlorobenzene	ug/L	10	U	4.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
2,2-Dichloropropane	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
2-Butanone	ug/L	20	U	5.0	20	20	10	08/21/23 18:34	VOA6_444516	X082129.D
2-Chlorotoluene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
2-Hexanone	ug/L	20	U	10	20	20	10	08/21/23 18:34	VOA6_444516	X082129.D
4-Chlorotoluene	ug/L	10	U	4.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
4-Isopropyltoluene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
4-Methyl-2-pentanone	ug/L	20	U	7.0	20	20	10	08/21/23 18:34	VOA6_444516	X082129.D
Acetone	ug/L	20	U	4.0	20	20	10	08/21/23 18:34	VOA6_444516	X082129.D
Benzene	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Bromobenzene	ug/L	10	U	4.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Bromochloromethane	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Bromodichloromethane	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Bromoform	ug/L	10	U	4.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

Volatiles by EPA Volatiles Organics by Method 8260C

HS23081040-01 | **Collected** | **Received** | **Matrix** | **Basis**

LH18/24-SP140_081623 | 08/16/23 13:00 | 08/17/23 09:50 | Water | Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	10	U	4.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Carbon disulfide	ug/L	20	U	6.0	20	20	10	08/21/23 18:34	VOA6_444516	X082129.D
Carbon tetrachloride	ug/L	6.5	J	5.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Chlorobenzene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Chloroethane	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Chloroform	ug/L	12		2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Chloromethane	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
cis-1,2-Dichloroethene	ug/L	2,400		20	100	100	100	08/21/23 18:55	VOA6_444516	X082130.D
cis-1,3-Dichloropropene	ug/L	10	U	1.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Dibromochloromethane	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Dibromomethane	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Dichlorodifluoromethane	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Ethylbenzene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Hexachlorobutadiene	ug/L	10	U	10	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Isopropylbenzene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
m,p-Xylene	ug/L	20	U	5.0	20	20	10	08/21/23 18:34	VOA6_444516	X082129.D
Methylene chloride	ug/L	3,500		40	200	200	100	08/21/23 18:55	VOA6_444516	X082130.D
Naphthalene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
n-Butylbenzene	ug/L	10	U	4.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
n-Propylbenzene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
o-Xylene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
sec-Butylbenzene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Styrene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
tert-Butylbenzene	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Tetrachloroethene	ug/L	7.1	J	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Toluene	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
trans-1,2-Dichloroethene	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
trans-1,3-Dichloropropene	ug/L	10	U	2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Trichloroethene	ug/L	5,000		20	100	100	100	08/21/23 18:55	VOA6_444516	X082130.D
Trichlorofluoromethane	ug/L	10	U	3.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D
Vinyl chloride	ug/L	90		2.0	10	10	10	08/21/23 18:34	VOA6_444516	X082129.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

Volatiles by EPA Volatiles Organics by Method 8260C

HS23081040-02

Trip Blank

Collected	Received	Matrix	Basis
08/16/23 00:00	08/17/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	08/21/23 17:33	VOA6_444516	X082126.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	08/21/23 17:33	VOA6_444516	X082126.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

Volatiles by EPA Volatiles Organics by Method 8260C

HS23081040-02

Trip Blank

Collected	Received	Matrix	Basis
08/16/23 00:00	08/17/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.10	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:33	VOA6_444516	X082126.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

Volatiles by EPA Volatiles Organics by Method 8260C

VBLKW-230821	Collected	Received	Matrix	Basis
VBLKW-230821	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

Volatiles by EPA Volatiles Organics by Method 8260C

VBLKW-230821	Collected	Received	Matrix	Basis
VBLKW-230821	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

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.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	HS23081040	

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6-444516

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.42	50	101		80-120
4-Bromofluorobenzene	51.56	50	103		80-120
Dibromofluoromethane	52.15	50	104		80-120
Toluene-d8	48.62	50	97.2		80-120

HS23081040-01	Analyzed	Conc Units	Dilution
LH18/24-SP140_081623	08/21/23	%REC	10

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	510	500	103		81-118
4-Bromofluorobenzene	460	500	91.2		85-114
Dibromofluoromethane	520	500	103		80-119
Toluene-d8	520	500	103		89-112
1,2-Dichloroethane-d4	5100	5000	103		81-118
4-Bromofluorobenzene	4500	5000	89.3		85-114
Dibromofluoromethane	5200	5000	104		80-119
Toluene-d8	5200	5000	104		89-112

HS23081040-02	Analyzed	Conc Units	Dilution
Trip Blank	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	51	50	103		81-118
4-Bromofluorobenzene	44	50	89.0		85-114
Dibromofluoromethane	52	50	104		80-119
Toluene-d8	52	50	105		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	HS23081040	

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6-444516

HS23081216-13MS	Analyzed	Conc Units	Dilution
BatchQC	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.41	50	101		81-118
4-Bromofluorobenzene	47.21	50	94.4		85-114
Dibromofluoromethane	52.15	50	104		80-119
Toluene-d8	52.14	50	104		89-112

HS23081216-13MSD	Analyzed	Conc Units	Dilution
BatchQC	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.56	50	101		81-118
4-Bromofluorobenzene	47.12	50	94.2		85-114
Dibromofluoromethane	51.84	50	104		80-119
Toluene-d8	51.04	50	102		89-112

VBLKW-230821	Analyzed	Conc Units	Dilution
VBLKW-230821	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.59	50	101		81-118
4-Bromofluorobenzene	45.42	50	90.8		85-114
Dibromofluoromethane	51.32	50	103		80-119
Toluene-d8	51.92	50	104		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	**HS23081040**	

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6-444516

VLCSW-230821	Analyzed	Conc Units	Dilution
VLCSW-230821	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	49.59	50	99.2		81-118
4-Bromofluorobenzene	50.38	50	101		85-114
Dibromofluoromethane	51.52	50	103		80-119
Toluene-d8	48.01	50	96.0		89-112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

RunID VOA6-444516

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS23081216-13)				HS23081216-13MS				HS23081216-13MSD						
Sample Matrix: Aqueous			Run Date	08/21/23				08/21/23						
Result Units: ug/L			Run Time	15:51				16:11						
			Data File	X082121.D				X082122.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	21.26	20	106		19.62	20	98		20	8.01	
1,1,1-Trichloroethane	74-131	1	0	21.05	20	105		20.62	20	103		20	2.04	
1,1,2,2-Tetrachloroethane	71-121	1	0	19.51	20	98		17.87	20	89		20	8.73	
1,1,2-Trichloroethane	80-119	1	0	20.95	20	105		19.89	20	99		20	5.22	
1,1-Dichloroethane	77-125	1	0	18.57	20	93		17.93	20	90		20	3.52	
1,1-Dichloroethene	71-131	1	0	20.48	20	102		19.99	20	100		20	2.41	
1,1-Dichloropropene	78-125	1	0	22.51	20	113		21.18	20	106		20	6.07	
1,2,3-Trichlorobenzene	69-129	1	0	20.15	20	101		18.96	20	95		20	6.11	
1,2,3-Trichloropropane	73-122	1	0	27.17	20	136		26.3	20	131		20	3.25	
1,2,4-Trichlorobenzene	69-130	1	0	21.36	20	107		19.34	20	97		20	9.94	
1,2,4-Trimethylbenzene	76-124	1	0	22.36	20	112		19.95	20	100		20	11.4	
1,2-Dibromo-3-chloropropane	62-128	1	0	18.55	20	93		17.52	20	88		20	5.73	
1,2-Dibromoethane	77-121	1	0	21.1	20	106		19.83	20	99		20	6.2	
1,2-Dichlorobenzene	80-119	1	0	21.09	20	105		18.92	20	95		20	10.9	
1,2-Dichloroethane	73-128	1	0	19.46	20	97		18.73	20	94		20	3.78	
1,2-Dichloropropane	78-122	1	0	19.07	20	95		18.94	20	95		20	0.686	
1,3,5-Trimethylbenzene	75-124	1	0	22.73	20	114		20.45	20	102		20	10.5	
1,3-Dichlorobenzene	80-119	1	0	21.72	20	109		19.9	20	100		20	8.75	
1,3-Dichloropropane	80-119	1	0	20.48	20	102		19.22	20	96		20	6.32	
1,4-Dichlorobenzene	79-118	1	0	21.93	20	110		20.14	20	101		20	8.5	
2,2-Dichloropropane	60-139	1	0	20.15	20	101		18.97	20	95		20	6.01	
2-Butanone	56-143	1	0	29.97	40	75		32.77	40	82		20	8.9	
2-Chlorotoluene	79-122	1	0	22.32	20	112		19.94	20	100		20	11.3	
2-Hexanone	57-139	1	0	36.91	40	92		36.44	40	91		20	1.28	
4-Chlorotoluene	78-122	1	0	22.35	20	112		20.14	20	101		20	10.4	
4-Isopropyltoluene	77-127	1	0	23.75	20	119		21.67	20	108		20	9.15	
4-Methyl-2-pentanone	67-130	1	0	38.07	40	95		36.18	40	90		20	5.1	
Acetone	39-160	1	0	33.05	40	83		31.74	40	79		20	4.03	
Benzene	79-120	1	0	21.18	20	106		19.88	20	99		20	6.35	
Bromobenzene	80-120	1	0	21.84	20	109		19.78	20	99		20	9.93	
Bromochloromethane	78-123	1	0	19.27	20	96		18.28	20	91		20	5.25	
Bromodichloromethane	79-125	1	0	19.68	20	98		18.56	20	93		20	5.84	
Bromoform	66-130	1	0	20.6	20	103		19.35	20	97		20	6.22	
Bromomethane	53-141	1	0	18.46	20	92		17.92	20	90		20	2.97	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

RunID VOA6-444516

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS23081216-13)				HS23081216-13MS				HS23081216-13MSD						
Sample Matrix: Aqueous			Run Date	08/21/23				08/21/23						
Result Units: ug/L			Run Time	15:51				16:11						
			Data File	X082121.D				X082122.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	40.9	40	102		38.64	40	97		20	5.68	
Carbon tetrachloride	72-136	1	0	22.4	20	112		21.47	20	107		20	4.22	
Chlorobenzene	82-118	1	0	21.28	20	106		19.99	20	100		20	6.26	
Chloroethane	60-138	1	0	20.36	20	102		18.59	20	93		20	9.08	
Chloroform	79-124	1	0	19.4	20	97		18.56	20	93		20	4.39	
Chloromethane	50-139	1	0	18.4	20	92		18.39	20	92		20	0.0629	
cis-1,2-Dichloroethene	78-123	1	0	19.73	20	99		19.01	20	95		20	3.7	
cis-1,3-Dichloropropene	75-124	1	0	19.82	20	99		18.71	20	94		20	5.72	
Dibromochloromethane	74-126	1	0	20.55	20	103		19.32	20	97		20	6.19	
Dibromomethane	79-123	1	0	19.19	20	96		18.84	20	94		20	1.86	
Dichlorodifluoromethane	32-152	1	0	21.29	20	106		20.42	20	102		20	4.18	
Ethylbenzene	79-121	1	0	22.62	20	113		21.1	20	106		20	6.95	
Hexachlorobutadiene	66-134	1	0	30.37	20	152		28.43	20	142		20	6.62	
Isopropylbenzene	72-131	1	0	23.39	20	117		21.63	20	108		20	7.82	
m,p-Xylene	80-121	1	0	44.82	40	112		42.04	40	105		20	6.4	
Methylene chloride	74-124	1	0	18.27	20	91		17.67	20	88		20	3.38	
Naphthalene	61-128	1	0	18.89	20	94		17.91	20	90		20	5.31	
n-Butylbenzene	75-128	1	0	22.72	20	114		20.58	20	103		20	9.87	
n-Propylbenzene	76-126	1	0	24.08	20	120		21.69	20	108		20	10.5	
o-Xylene	78-122	1	0	21.94	20	110		20.36	20	102		20	7.46	
sec-Butylbenzene	77-126	1	0	24.81	20	124		22.3	20	112		20	10.6	
Styrene	78-123	1	0	22.11	20	111		20.2	20	101		20	9.04	
tert-Butylbenzene	78-124	1	0	24.13	20	121		21.69	20	108		20	10.6	
Tetrachloroethene	74-129	1	0	24.39	20	122		22.42	20	112		20	8.41	
Toluene	80-121	1	0	21.59	20	108		20.02	20	100		20	7.55	
trans-1,2-Dichloroethene	75-124	1	0	19.47	20	97		18.66	20	93		20	4.28	
trans-1,3-Dichloropropene	73-127	1	0	18.36	20	92		18.08	20	90		20	1.55	
Trichloroethene	79-123	1	0	21.85	20	109		20.89	20	104		20	4.49	
Trichlorofluoromethane	65-141	1	0	21.82	20	109		20.97	20	105		20	3.95	
Vinyl chloride	58-137	1	0	21.07	20	105		20.12	20	101		20	4.62	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

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 Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

SAMPLENUM VLCSW-230821

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6_444516			VLCSW-230821			
Spike Matrix	Aqueous	Run Date	08/21/23			
Result Units	ug/L	Run Time	09:33			
		Data File	X082105.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
1,1,1,2-Tetrachloroethane	78-124	20	20.97	105		
1,1,1-Trichloroethane	74-131	20	22	110		
1,1,2,2-Tetrachloroethane	71-121	20	19.15	95.8		
1,1,2-Trichloroethane	80-119	20	19.99	99.9		
1,1-Dichloroethane	77-125	20	18.81	94.1		
1,1-Dichloroethene	71-131	20	20.23	101		
1,1-Dichloropropene	78-125	20	22.34	112		
1,2,3-Trichlorobenzene	69-129	20	20.6	103		
1,2,3-Trichloropropane	73-122	20	19.58	97.9		
1,2,4-Trichlorobenzene	69-130	20	21.29	106		
1,2,4-Trimethylbenzene	76-124	20	21.51	108		
1,2-Dibromo-3-chloropropane	62-128	20	19.6	98.0		
1,2-Dibromoethane	77-121	20	19.89	99.4		
1,2-Dichlorobenzene	80-119	20	20.59	103		
1,2-Dichloroethane	73-128	20	19.49	97.5		
1,2-Dichloropropane	78-122	20	19.41	97.1		
1,3,5-Trimethylbenzene	75-124	20	21.99	110		
1,3-Dichlorobenzene	80-119	20	21.33	107		
1,3-Dichloropropane	80-119	20	19.7	98.5		
1,4-Dichlorobenzene	79-118	20	21.12	106		
2,2-Dichloropropane	60-139	20	21.52	108		
2-Butanone	56-143	40	36.88	92.2		
2-Chlorotoluene	79-122	20	21.28	106		
2-Hexanone	57-139	40	38.55	96.4		
4-Chlorotoluene	78-122	20	21.3	107		
4-Isopropyltoluene	77-127	20	23.02	115		
4-Methyl-2-pentanone	67-130	40	37.25	93.1		
Acetone	39-160	40	46.33	116		
Benzene	79-120	20	20.58	103		
Bromobenzene	80-120	20	21.06	105		
Bromochloromethane	78-123	20	19.93	99.6		
Bromodichloromethane	79-125	20	20.14	101		
Bromoform	66-130	20	21.06	105		
Bromomethane	53-141	20	19.37	96.8		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

SAMPLENUM VLCSW-230821

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6_444516			VLCSW-230821			
Spike Matrix	Aqueous	**Run Date**	08/21/23			
Result Units	ug/L	**Run Time**	09:33			
		Data File	X082105.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Carbon disulfide	64-133	40	40.25	101		
Carbon tetrachloride	72-136	20	22.46	112		
Chlorobenzene	82-118	20	20.55	103		
Chloroethane	60-138	20	19.86	99.3		
Chloroform	79-124	20	19.98	99.9		
Chloromethane	50-139	20	19.99	100.0		
cis-1,2-Dichloroethene	78-123	20	20.71	104		
cis-1,3-Dichloropropene	75-124	20	20.07	100		
Dibromochloromethane	74-126	20	20.61	103		
Dibromomethane	79-123	20	19.4	97.0		
Dichlorodifluoromethane	32-152	20	21.29	106		
Ethylbenzene	79-121	20	21.78	109		
Hexachlorobutadiene	66-134	20	31.98	160		
Isopropylbenzene	72-131	20	21.93	110		
m,p-Xylene	80-121	40	43.38	108		
Methylene chloride	74-124	20	19.08	95.4		
Naphthalene	61-128	20	18.88	94.4		
n-Butylbenzene	75-128	20	22.38	112		
n-Propylbenzene	76-126	20	23.15	116		
o-Xylene	78-122	20	20.8	104		
sec-Butylbenzene	77-126	20	23.72	119		
Styrene	78-123	20	21.46	107		
tert-Butylbenzene	78-124	20	23.1	115		
Tetrachloroethene	74-129	20	22.67	113		
Toluene	80-121	20	20.68	103		
trans-1,2-Dichloroethene	75-124	20	19.69	98.5		
trans-1,3-Dichloropropene	73-127	20	19.3	96.5		
Trichloroethene	79-123	20	20.85	104		
Trichlorofluoromethane	65-141	20	21.41	107		
Vinyl chloride	58-137	20	20.42	102		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

Volatiles by EPA Volatiles Organics by Method 8260C

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230821	X082107.D	08/21/23 10:14	VOA6_444516
VLCSW-230821	LCS	VLCSW-230821	X082105.D	08/21/23 09:33	VOA6_444516
BatchQC	MS	HS23081216-13MS	X082121.D	08/21/23 15:51	VOA6_444516
BatchQC	MSD	HS23081216-13MSD	X082122.D	08/21/23 16:11	VOA6_444516
Trip Blank	SAMP	HS23081040-02	X082126.D	08/21/23 17:33	VOA6_444516
LH18/24-SP140_081623	SAMP	HS23081040-01	X082129.D	08/21/23 18:34	VOA6_444516
LH18/24-SP140_081623	SAMP	HS23081040-01	X082130.D	08/21/23 18:55	VOA6_444516

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right partner.

Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

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 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	**HS23081040**	

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6-443843

Tune File X081101.D 08/11/23 8/11/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	21.9 (21.9)
75	30.0 - 60.0% of mass 95	53.6 (53.6)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.7 (6.67)
173	Less than 2.0% of mass 174	1.1 (1.2) 1
174	50.0 - 120.0% of mass 95	89.8 (89.8)
175	4.0 - 9.0% of mass 174	7.4 (8.29) 1
176	93.0 - 101.0% of mass 174	87.4 (97.3) 1
177	5.0 - 9.0% of mass 176	6.1 (6.98) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD000.25	ICAL1	8/11/2023	X081102	VSTD000.25
2	VSTD000.5	ICAL2	8/11/2023	X081103	VSTD000.5
3	VSTD001	ICAL3	8/11/2023	X081104	VSTD001
4	VSTD002	ICAL4	8/11/2023	X081105	VSTD002
5	VSTD005	ICAL5	8/11/2023	X081106	VSTD005
6	VSTD020	ICAL6	8/11/2023	X081107	VSTD020
7	VSTD050	ICAL7	8/11/2023	X081108	VSTD050
8	VSTD100	ICAL8	8/11/2023	X081109	VSTD100
9	VSTD150	ICAL9	8/11/2023	X081110	VSTD150
10	VSTD200	ICAL	8/11/2023	X081111	VSTD200
11	CCV	ICV	8/11/2023	X081113	CCV

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	**HS23081040**	

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6-444516

Tune File X082101.D 08/21/23 8/21/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	22.7 (22.7)
75	30.0 - 60.0% of mass 95	51.6 (51.6)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.4 (7.45)
173	Less than 2.0% of mass 174	0.5 (0.527) 1
174	50.0 - 120.0% of mass 95	89.9 (89.9)
175	4.0 - 9.0% of mass 174	6.7 (7.4) 1
176	93.0 - 101.0% of mass 174	87.9 (97.8) 1
177	5.0 - 9.0% of mass 176	5.1 (5.84) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	8/21/2023	X082103	CCV
2	VLCSW-	LCS	8/21/2023	X082105	VLCSW-230821
3	VBLKW-	MBLK	8/21/2023	X082107	VBLKW-230821
4	HS23081216-	MS	8/21/2023	X082121	ZZZZZZMS
5	HS23081216-	MSD	8/21/2023	X082122	ZZZZZZMSD
6	HS23081040-	SAMP	8/21/2023	X082126	Trip Blank
7	HS23081040-	SAMP	8/21/2023	X082129	LH18/24-SP140_081623
8	HS23081040-	SAMP	8/21/2023	X082130	LH18/24-SP140_081623
9	CCV_END	CCV_EN	8/21/2023	X082131	CCV_END

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right partner.

Form 6

Initial Calibration Data

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133
ICAL End Date 11-AUG-2023 1457

Calibration Files

Level 1 ..target\chem\voa6.i\x230811.b\x081102.d
Level 2 ..target\chem\voa6.i\x230811.b\x081103.d
Level 3 ..target\chem\voa6.i\x230811.b\x081104.d
Level 4 ..target\chem\voa6.i\x230811.b\x081105.d
Level 5 ..target\chem\voa6.i\x230811.b\x081106.d
Level 6 ..target\chem\voa6.i\x230811.b\x081107.d
Level 7 ..target\chem\voa6.i\x230811.b\x081108.d
Level 8 ..target\chem\voa6.i\x230811.b\x081109.d
Level 9 ..target\chem\voa6.i\x230811.b\x081110.d
Level 10 target\chem\voa6.i\x230811.b\x081111.d

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	NE 255633	3407 619342	4328 959873	11597 1273733	27672	99620	LINR	0.01337	0.46460		0.99850	
Chloromethane	NE 0.40302	0.57405 0.48018	0.52500 0.50465	0.47096 0.53834	0.46477	0.41794	AVRG		0.48655		11.39424	
Propionitrile	NE 0.07074	0.06787 0.07205	0.07292 0.07170	0.06349 0.07228	0.06817	0.06745	AVRG		0.06963		4.45118	
Vinyl Chloride	NE 0.55667	0.72606 0.61855	0.56186 0.60253	0.60489 0.58278	0.58952	0.55465	AVRG		0.59972		8.75575	
Bromomethane	NE 0.27995	0.35231 0.31382	0.37627 0.32529	0.33070 0.34286	0.30591	0.27830	AVRG		0.32283		10.02785	
Chloroethane	NE 0.36414	0.45634 0.38031	0.43284 0.35909	0.41782 0.35077	0.40656	0.36978	AVRG		0.39307		9.37589	
Trichlorofluoromethane	NE 0.75325	1.10623 0.89244	0.76877 0.85600	0.84856 0.81997	0.85815	0.77853	AVRG		0.85354		12.38612	
Acrolein	NE 22472	323 42571	463 67360	887 87268	2218	7342	LINR	-0.05489	0.01595		0.99825	
Acetone	NE 247355	8080 518775	9915 740284	14349 1042142	31794	100132	LINR	-0.09194	0.18484		0.99800	
1,1-Dichloroethene	NE 0.43569	0.56284 0.48537	0.48932 0.46481	0.51676 0.44882	0.49398	0.44755	AVRG		0.48279		8.24421	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Isobutyl Alcohol	NE 0.07652	0.08412 0.07931	0.07401 0.07954	0.07762 0.08132	0.07584	0.07709	AVRG		0.07838		3.90627	
Acetonitrile	NE 0.07456	0.07300 0.07466	0.08481 0.07260	0.08801 0.07232	0.07971	0.07431	AVRG		0.07711		7.47057	
Allyl Chloride	NE 1.44176	1.69809 1.43490	1.64719 1.38774	1.69303 1.37516	1.61564	1.41555	AVRG		1.52323		8.97832	
Iodomethane	NE 646092	2898 1612228	5195 2614120	9663 3724033	31977	171922	QUAD	0.11120	1.71280	-0.04510	0.99848	
Acrylonitrile	NE 0.22137	0.24952 0.22377	0.24284 0.21854	0.24432 0.21551	0.25192	0.22541	AVRG		0.23258		6.16962	
Methylene Chloride	NE 0.56122	0.64115 0.54894	0.71364 0.51621	0.63887 0.51110	0.71498	0.60296	AVRG		0.60545		12.80901	
Methyl tert-butyl ether	NE 1.65215	1.97638 1.61767	1.87864 1.59510	1.78399 1.58849	1.77267	1.63417	AVRG		1.72214		8.03192	
Carbon Disulfide	NE 1.34724	1.48863 1.47632	1.44347 1.42960	1.48106 1.39624	1.47715	1.35583	AVRG		1.43284		3.82349	
trans-1,2-Dichloroethene	NE 0.52456	0.63439 0.54249	0.61656 0.52259	0.56699 0.51339	0.58807	0.54041	AVRG		0.56105		7.73785	
Vinyl Acetate	NE 1.64724	1.83435 1.68753	1.67683 1.65594	1.52797 1.65375	1.61303	1.63980	AVRG		1.65961		4.84390	
1,1-Dichloroethane	NE 0.98414	1.21108 0.99880	1.23422 0.94407	1.13098 0.93091	1.06669	1.00863	AVRG		1.05661		10.60256	
Chloroprene	NE 0.18511	0.24053 0.21791	0.22398 0.21096	0.21746 0.20023	0.21465	0.19285	AVRG		0.21152		7.94039	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
2-Butanone	NE 0.19090	0.16626 0.20804	0.17705 0.19986	0.17177 0.20476	0.18179	0.16529	AVRG		0.18508		8.88859	
Methacrylonitrile	NE 0.48682	0.53696 0.50767	0.48185 0.50221	0.47953 0.50039	0.50962	0.48295	AVRG		0.49867		3.69719	
2,2-Dichloropropane	NE 420039	4612 949589	9399 1464683	17055 1951668	43583	162441	LINR	-0.00034	0.70909		0.99916	
cis-1,2-Dichloroethene	NE 0.52504	0.58922 0.54660	0.54283 0.52807	0.50439 0.52661	0.55456	0.53181	AVRG		0.53879		4.42802	
Chloroform	NE 0.88361	0.94895 0.91936	0.99572 0.88022	0.96143 0.87517	0.96651	0.90377	AVRG		0.92608		4.72192	
Bromochloromethane	NE 0.28903	0.30862 0.29941	0.37772 0.28783	0.31678 0.27712	0.30706	0.29309	AVRG		0.30629		9.60862	
1,1,1-Trichloroethane	NE 0.70525	0.79991 0.79429	0.67228 0.77108	0.70847 0.75445	0.76754	0.71836	AVRG		0.74351		5.94209	
1,1-Dichloropropene	NE 0.35874	0.44123 0.42677	0.35374 0.42631	0.38325 0.41429	0.36402	0.37247	AVRG		0.39342		8.57192	
1,2-Dichloroethane	NE 0.44581	0.52772 0.46238	0.52519 0.46248	0.45791 0.45826	0.48129	0.45673	AVRG		0.47531		6.40385	
Carbon Tetrachloride	NE 0.35954	0.47967 0.43348	0.39978 0.44098	0.40393 0.42221	0.43067	0.36764	AVRG		0.41532		8.99651	
Benzene	NE 1.15436	1.38413 1.23319	1.27200 1.23296	1.17750 1.21280	1.24217	1.17492	AVRG		1.23156		5.55716	
Trichloroethene	NE 0.32756	0.40599 0.35784	0.34534 0.36244	0.34459 0.35492	0.35435	0.33246	AVRG		0.35394		6.40889	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	NE 0.42912	0.53776 0.45138	0.49960 0.44887	0.42015 0.45134	0.45657	0.43323	AVRG		0.45867		8.13672	
Methyl Methacrylate	NE 0.45708	0.46821 0.47469	0.46970 0.46852	0.43319 0.47446	0.45468	0.43984	AVRG		0.46004		3.27954	
2-Chloroethylvinyl ether	NE 0.10527	0.13044 0.11857	0.12050 0.11999	0.12280 0.12146	0.11033	0.10670	AVRG		0.11734		7.03256	
1,2-Dichloropropane	NE 0.32291	0.41261 0.34183	0.36231 0.34389	0.33070 0.34368	0.34126	0.32613	AVRG		0.34726		7.82046	
2-Nitropropane	NE 0.16504	0.19619 0.18033	0.20580 0.17879	0.19631 0.18450	0.18445	0.16142	AVRG		0.18365		7.90215	
Dibromomethane	NE 0.21505	0.27102 0.22287	0.28256 0.22326	0.23327 0.22465	0.24153	0.22164	AVRG		0.23732		10.02170	
4-Methyl-2-Pentanone	NE 0.33755	0.37287 0.35276	0.36808 0.35896	0.38125 0.36361	0.34499	0.34783	AVRG		0.35866		3.95589	
cis-1,3-Dichloropropene	NE 0.49701	0.60888 0.54096	0.51488 0.54667	0.47545 0.55656	0.48634	0.49691	AVRG		0.52485		8.07803	
Ethyl Methacrylate	NE 0.43754	0.47636 0.46383	0.47511 0.47685	0.44432 0.48333	0.42713	0.43820	AVRG		0.45808		4.63830	
Toluene	NE 1.30542	1.58762 1.39612	1.45153 1.40769	1.29669 1.38932	1.38586	1.31867	AVRG		1.39321		6.42306	
trans-1,3-Dichloropropene	NE 0.41239	0.51608 0.45869	0.41702 0.46634	0.40845 0.47803	0.40096	0.40651	AVRG		0.44050		9.22391	
2-Hexanone	NE 0.22991	0.23756 0.23902	0.24514 0.24226	0.24516 0.25074	0.23798	0.23897	AVRG		0.24075		2.46712	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,1,2-Trichloroethane	NE 0.26299	0.30480 0.27255	0.28308 0.27293	0.27202 0.27412	0.28463	0.27234	AVRG		0.27772		4.31956	
1,3-Dichloropropane	NE 0.53265	0.64521 0.54426	0.63134 0.55126	0.54276 0.55377	0.56859	0.53964	AVRG		0.56772		7.29205	
Dibromochloromethane	NE 0.39604	0.42562 0.40981	0.40064 0.41415	0.37380 0.41796	0.38120	0.38806	AVRG		0.40081		4.38226	
Tetrachloroethene	NE 0.26579	0.32145 0.31165	0.27810 0.31659	0.25034 0.30175	0.28769	0.27284	AVRG		0.28958		8.54849	
1,2-Dibromoethane	NE 0.32798	0.36532 0.33179	0.33937 0.33669	0.33095 0.33988	0.34531	0.33603	AVRG		0.33926		3.27108	
1-Chlorohexane	NE 0.25100	0.30188 0.31383	0.31158 0.32140	0.27315 0.31291	0.27363	0.24424	AVRG		0.28929		10.11307	
Chlorobenzene	NE 0.90541	1.10534 0.95312	0.97241 0.96654	0.90938 0.96446	0.95264	0.91060	AVRG		0.95999		6.31738	
1,1,1,2-Tetrachloroethane	NE 0.35585	0.40402 0.38079	0.35426 0.38526	0.35087 0.38535	0.36062	0.36038	AVRG		0.37082		4.98176	
Ethylbenzene	NE 0.45055	0.53905 0.48903	0.45245 0.48823	0.42306 0.48059	0.48308	0.46077	AVRG		0.47409		6.90368	
m,p-Xylenes	NE 0.58130	0.68357 0.62807	0.56743 0.64071	0.54293 0.62674	0.60154	0.58590	AVRG		0.60647		7.05323	
o-Xylene	NE 0.55705	0.65150 0.60406	0.62675 0.61436	0.56336 0.61385	0.57393	0.57386	AVRG		0.59764		5.38384	
Styrene	NE 0.99646	1.04658 1.04857	0.86091 1.08065	0.85907 1.08017	0.98330	0.98879	AVRG		0.99383		8.47428	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	0.250 Level 1	0.500 Level 2	1.00 Level 3	2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
	50.00 Level 7	100.00 Level 8	150.00 Level 9	200.00 Level 10								
Bromoform	NE	0.25707	0.24044	0.24432	0.23803	0.26583						
	0.26853	0.29618	0.30934	0.31415			AVRG		0.27043		10.87778	
Isopropylbenzene	NE	1.80622	1.32978	1.28653	1.41994	1.40919						
	1.37150	1.56611	1.60724	1.56968			AVRG		1.48513		11.12077	
1,1,2,2-Tetrachloroethane	NE	0.92909	0.86394	0.87075	0.78812	0.78941						
	0.75920	0.76344	0.77928	0.78188			AVRG		0.81390		7.27290	
1,2,3-Trichloropropane	NE	0.65469	0.62918	0.62358	0.58743	0.58923						
	0.58888	0.55415	0.60328	0.55649			AVRG		0.59855		5.53581	
trans-1,4-Dichloro-2-butene	NE	0.13890	0.13239	0.11790	0.11729	0.11679						
	0.11541	0.12664	0.13335	0.13591			AVRG		0.12607		7.41052	
n-Propylbenzene	NE	3.53439	2.63209	2.53209	2.84258	2.93692						
	2.80210	3.13219	3.15136	3.04325			AVRG		2.95633		10.23808	
Bromobenzene	NE	0.95370	0.80509	0.75227	0.80991	0.79277						
	0.75715	0.77334	0.77592	0.77226			AVRG		0.79916		7.65867	
1,3,5-Trimethylbenzene	NE	2.48268	2.07330	1.81975	2.04869	2.10015						
	2.02308	2.25923	2.34365	2.30051			AVRG		2.16123		9.33218	
2-Chlorotoluene	NE	2.20579	2.06491	1.79059	1.89312	1.86633						
	1.75224	1.82894	1.83303	1.80312			AVRG		1.89312		7.79430	
4-Chlorotoluene	NE	2.26845	2.25121	2.10906	2.12065	2.14258						
	2.06478	2.19780	2.22960	2.22059			AVRG		2.17830		3.26734	
tert-Butylbenzene	NE	2.14748	1.73480	1.56846	1.81705	1.80636						
	1.70051	1.96448	2.00576	1.91951			AVRG		1.85160		9.51930	
1,2,4-Trimethylbenzene	NE	2.64935	2.26936	1.89125	2.13151	2.14102						
	2.06008	2.28018	2.33175	2.27563			AVRG		2.22557		9.44401	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
sec-Butylbenzene	NE 2.31593	2.76225 2.81651	2.33429 2.87775	2.15274 2.71008	2.46828	2.40717	AVRG		2.53833		10.17944	
p-Isopropyltoluene	NE 2.09380	2.76970 2.50471	1.96893 2.57341	1.91469 2.45434	2.14864	2.22762	AVRG		2.29509		12.79259	
1,3-Dichlorobenzene	NE 1.34767	1.61190 1.43556	1.42934 1.45343	1.32428 1.42665	1.39947	1.38137	AVRG		1.42329		5.80050	
1,4-Dichlorobenzene	NE 1.43902	1.66298 1.51652	1.54913 1.54268	1.47867 1.51656	1.54699	1.46611	AVRG		1.52430		4.24913	
Benzyl Chloride	NE 0.72782	0.67288 0.86124	0.55546 0.91262	0.58458 0.91977	0.55707	0.64970	AVRG		0.71568		20.72330	*
n-Butylbenzene	NE 1021843	10518 2801951	15267 4582820	30922 6046266	92255	387389	LINR	0.04039	2.32851		0.99698	
1,2-Dichlorobenzene	NE 1.35288	1.53229 1.44711	1.50392 1.45906	1.36395 1.45071	1.41655	1.40391	AVRG		1.43671		4.13675	
1,2-Dibromo-3-Chloropropane	NE 0.13161	0.13979 0.14237	0.13364 0.14298	0.14414 0.14312	0.13389	0.12727	AVRG		0.13765		4.46304	
1,2,4-Trichlorobenzene	NE 0.87140	0.96424 1.01824	0.93936 1.05089	0.86817 1.02829	0.89513	0.92080	AVRG		0.95073		7.25032	
Hexachlorobutadiene	NE 188947	1914 585400	4132 NE	6937 NE	18865	73649	QUAD	-0.01661	3.35202	-1.30864	0.99909	
Naphthalene	NE 2.18673	2.64769 2.37601	2.43467 2.41023	2.42767 2.40050	2.19435	2.27928	AVRG		2.37302		5.95573	
1,2,3-Trichlorobenzene	NE 0.84155	1.12740 0.93487	0.95656 0.95660	0.86730 0.93825	0.86478	0.85096	AVRG		0.92647		9.54913	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Ethyl Acetate	NE 0.54091	0.61659 0.56275	0.58547 0.54012	0.58404 0.54797	0.59021	0.59722	AVRG		0.57392		4.72995	
Methyl Acrylate	NE 0.46382	0.53729 0.47598	0.51625 0.46839	0.49042 0.52913	0.51921	0.44523	AVRG		0.49397		6.60703	
n-Butanol	NE 143573	1373 333572	2659 550912	5108 804319	9555	50123	LINR	1.35820	0.01419		0.99642	
Ethyl Acrylate	NE 1.12556	1.26235 1.26945	1.08473 1.27971	1.12017 1.30407	1.10451	1.09383	AVRG		1.18271		7.84082	
Cyclohexanone	NE 0.02914	0.03613 0.02972	0.03766 0.02664	0.03630 0.02699	0.03301	0.03098	AVRG		0.03184		12.97281	
1,4-Dioxane	0.00610 0.00592	0.00680 0.00628	0.00660 0.00624	0.00700 0.00645	0.00628	0.00588	AVRG		0.00636		5.71059	
n-Hexane	NE 282893	4056 828407	6841 NE	12200 NE	32239	118882	QUAD	-0.02185	2.52661	-0.74331	0.99863	
Freon TF	NE 245533	3204 646829	4459 1017540	10755 1294079	27608	98415	LINR	0.02270	0.48156		0.99589	
Methyl Acetate	NE 0.43072	0.51322 0.43094	0.50555 0.40586	0.44863 0.40874	0.44649	0.45354	AVRG		0.44930		8.43501	
Methylcyclohexane	NE 0.69881	0.81433 0.79595	0.70929 0.82665	0.69720 0.83653	0.70060	0.68088	AVRG		0.75114		8.66448	
Isopropyl alcohol	NE 441739	5543 902720	10285 1400869	25882 1951400	46061	173548	LINR	-0.25785	0.03465		0.99977	
Amyl alcohol	NE NE	NE NE	0.00690 0.00109	0.00185 0.01156	0.00230	0.00114	AVRG		0.00414		102	*

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Allyl alcohol	NE 282893	4860 828407	4388 NE	12200 NE	32239	118882	QUAD	-0.39685	50.36143	-14.75731	0.99855	
4-Methyl-2-pentanol	NE 0.07326	0.11612 0.08165	0.15081 0.08922	0.10586 0.09301	0.10408	0.07923	AVRG		0.09925		23.99067	*
Tert-butyl alcohol	NE 745105	9824 1555693	18788 2402568	45475 3353385	82288	300900	LINR	-0.25928	0.05950		0.99971	
Diethyl ether	NE 0.42791	0.48305 0.41719	0.49765 0.40806	0.44762 0.40022	0.46546	0.42461	AVRG		0.44131		7.75641	
1,3-Butadiene	NE 0.46036	0.63274 0.52619	0.50215 0.51269	0.54090 0.49908	0.49939	0.46259	AVRG		0.51512		9.96029	
Cyclohexane	NE 340162	4440 918146	5861 1454384	12705 1872161	36420	130025	LINR	0.03671	0.69448		0.99609	
Tetrahydrofuran	NE 0.09363	0.11697 0.09327	0.10303 0.09239	0.09100 0.09224	0.10554	0.08975	AVRG		0.09754		9.33471	
alpha-Methylstyrene	NE 1.02875	1.23121 1.10905	0.98100 1.12766	0.94266 1.10800	0.99132	1.05181	AVRG		1.06350		8.42717	
Diisopropyl ether	NE 1.75811	2.02254 1.77715	1.90531 1.72322	1.75503 1.75247	1.81737	1.69593	AVRG		1.80079		5.69680	
Dichlorofluoromethane	NE 0.84888	NE 0.86145	NE 0.83431	0.93125 0.83443	0.89736	0.82858	AVRG		0.86232		4.45646	*
Propylene oxide	NE 0.06424	0.11812 0.05766	0.15030 0.05779	0.07718 0.05494	0.07954	0.06651	AVRG		0.08070		40.27437	*
3-Methyl-1-butanol	NE 0.00816	NE 0.00898	0.00730 0.00977	0.00944 0.01025	0.00731	0.00797	AVRG		0.00865		13.01043	*

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Butyl acrylate	NE 0.78908	0.81663 0.83421	0.79624 0.90433	0.77067 0.91868	0.74966	0.75021	AVRG		0.81441		7.58811	
Butyl methacrylate	NE 1.00856	1.17765 0.95368	1.00219 1.01349	0.96966 1.00259	1.00284	0.99037	AVRG		1.01345		6.37238	
Dicyclopentadiene	NE 1468680	16221 3267261	27109 5365427	58027 7593221	137259	526364	QUAD	-0.00191	0.38369	-0.00283	0.99996	
1,2,3-Trimethylbenzene	NE 2.21356	2.58628 2.25830	2.52247 2.34939	2.33551 2.32313	2.18072	2.11777	AVRG		2.32079		6.61312	
Ethanol	NE 75258	1086 156245	1697 233477	4283 323730	8818	29323	LINR	-0.50438	0.00577		0.99929	
tert-Butyl formate	NE 0.38162	0.58304 0.42429	NE 0.43222	0.69585 0.51008	0.49629	0.47342	AVRG		0.49960		20.07517	*
3,3-Dimethyl-1-butanol	NE 0.03749	NE 0.04006	0.07214 0.04264	0.04999 0.04341	0.04963	0.04256	AVRG		0.04724		23.15285	*
tert-Amyl methyl ether	NE 1.59181	2.42299 1.63848	2.18892 2.03326	1.73650 2.07152	1.83789	1.55625	AVRG		1.89751		15.76883	*
tert-Butyl ethyl ether	NE 1.58380	1.59126 1.61689	1.72822 1.61959	1.59721 1.62889	1.64579	1.55824	AVRG		1.61888		3.00434	
tert-Amyl alcohol	NE 0.03816	0.05830 0.04243	0.04896 0.04322	0.06959 0.05101	0.04963	0.04734	AVRG		0.04985		18.83220	*
Epichlorohydrin	NE 0.02768	0.03345 0.02885	0.03057 0.02997	0.03510 0.02975	0.02973	0.03010	AVRG		0.03058		7.49678	
Isoprene	NE 0.17180	0.38017 0.19332	0.14142 0.18673	0.23738 0.18158	0.18600	0.19487	AVRG		0.20814		33.23104	*

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
n-Amyl acetate	NE 0.67624	NE 0.73143	NE 0.78198	NE 0.79667	0.73221	0.71113	AVRG		0.73828		6.05429	*
Isopropyl acetate	NE 0.95278	1.17473 0.99604	0.94826 1.02757	0.95670 1.03080	1.03164	0.97079	AVRG		1.00992		7.00182	
n-Butyl acetate	NE 0.55783	0.58139 0.58885	0.52964 0.59863	0.55649 0.61777	0.56545	0.56554	AVRG		0.57351		4.56191	
Acetaldehyde	NE 128302	NE 249925	4717 NE	7566 NE	13449	59320	LINR	-0.17271	0.04834		0.99748	
Methyl Amyl Ketone	NE 0.82280	0.76625 0.87635	0.96635 0.95086	0.80166 0.95547	0.85420	0.83850	AVRG		0.87027		8.33273	
Dimethyl Disulfide	NE 0.69918	0.59913 0.71672	0.57986 0.74749	0.57899 0.75166	0.59986	0.65184	AVRG		0.65830		10.89510	
Isobutylene	NE 0.05515	0.07320 0.06062	0.07525 0.06306	0.06686 0.07052	0.06679	0.05900	AVRG		0.06561		10.25599	
2-Ethylhexyl Acrylate	NE 1.07240	1.03931 1.13795	0.79638 1.17365	0.96214 1.17150	0.86751	0.97195	AVRG		1.02142		13.06585	
94 1,2-Dichloroethylene (total)	NE 0.52480	0.61181 0.54455	0.57970 0.52533	0.53569 0.52000	0.57131	0.53611	AVRG		0.54992		5.65149	
95 Xylenes (total)	NE 0.54273	0.65181 0.60806	0.56564 0.61968	0.52445 0.61761	0.56197	0.54685	AVRG		0.58209		7.43849	
30 Dibromofluoromethane	NE 277572	4322 623623	5954 899883	12062 1262400	29825	119843	LINR	-0.01675	0.45102		0.99823	
35 1,2-Dichloroethane-d4	NE 321172	4095 683505	8038 1002392	13488 1400428	36656	130066	LINR	-0.02225	0.49960		0.99882	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
48 Toluene-d8	NE 0.98459	1.55411 1.13736	1.15990 1.05055	1.22961 1.08227	1.25336	1.13858	AVRG		1.17670		13.96851	
69 4-Bromofluorobenzene	NE 440611	8224 1004363	9648 1512449	21205 2160189	49251	175173	LINR	0.00560	0.49634		0.99943	

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	CCV	**Client Smp ID**	CCV
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	X081113.D	**Inj Date**	11-AUG-2023 15:38

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.00	49.04	98.08	80-120	
1,1,1-Trichloroethane	50.00	45.55	91.12	80-120	
1,1,2,2-Tetrachloroethane	50.00	48.03	96.07	80-120	
Freon TF	50.00	43.35	86.71	80-120	
Methyl acetate	50.00	47.61	95.23	80-120	
Cyclohexane	50.00	42.28	84.57	80-120	
Methylcyclohexane	50.00	43.16	86.33	80-120	
Carbon Disulfide	100.00	91.11	91.12	80-120	
2-Hexanone	100.00	100.30	100.30	80-120	
1,1,2-Trichloroethane	50.00	48.99	98.00	80-120	
1,1-Dichloroethane	50.00	44.61	89.24	80-120	
1,1-Dichloroethene	50.00	44.85	89.71	80-120	
1,1-Dichloropropene	50.00	46.28	92.58	80-120	
1,2,3-Trichlorobenzene	50.00	46.26	92.54	80-120	
1,2,3-Trichloropropane	50.00	50.58	101.17	80-120	
1,2,4-Trichlorobenzene	50.00	47.31	94.63	80-120	
1,2,4-Trimethylbenzene	50.00	45.73	91.46	80-120	
1,2-Dibromo-3-Chloropropane	50.00	49.55	99.11	80-120	
1,2-Dibromoethane	50.00	48.92	97.85	80-120	
Acrolein	100.00	94.82	94.82	80-120	
Acrylonitrile	100.00	89.79	89.79	80-120	
1,2-Dichlorobenzene	50.00	46.71	93.42	80-120	
1,2-Dichloroethane	50.00	47.60	95.21	80-120	
1,2-Dichloropropane	50.00	46.92	93.84	80-120	
1,3,5-Trimethylbenzene	50.00	45.53	91.07	80-120	
1,3-Dichlorobenzene	50.00	47.31	94.63	80-120	
1,3-Dichloropropane	50.00	47.80	95.62	80-120	
1,4-Dichlorobenzene	50.00	46.50	93.00	80-120	
1-Chlorohexane	50.00	43.86	87.73	80-120	
2,2-Dichloropropane	50.00	47.67	95.34	80-120	
2-Butanone	100.00	106.05	106.06	80-120	
2-Chloroethylvinyl ether	100.00	97.56	97.56	80-120	
2-Chlorotoluene	50.00	45.50	91.02	80-120	
4-Chlorotoluene	50.00	46.95	93.91	80-120	

Initial Calibration Verification (ICV)

Client	Bhate Environmental Associates, Inc.	**Workorder**	
Project	Groundwater Treatment Plant Quarterly Influent Samples	**HS23081040**	

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	CCV	**Client Smp ID**	CCV
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	X081113.D	**Inj Date**	11-AUG-2023 15:38

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	45.14	90.30	80-120	
4-Methyl-2-Pentanone	100.00	98.29	98.29	80-120	
Acetone	100.00	111.66	111.67	80-120	
Acetonitrile	500.00	408.87	81.78	80-120	
Allyl Chloride	50.00	41.78	83.56	80-120	
Benzene	50.00	47.27	94.56	80-120	
Bromobenzene	50.00	47.79	95.59	80-120	
Bromochloromethane	50.00	46.58	93.18	80-120	
Bromodichloromethane	50.00	47.61	95.22	80-120	
Bromoform	50.00	52.37	104.75	80-120	
Bromomethane	50.00	49.14	98.30	80-120	
Carbon Tetrachloride	50.00	44.62	89.26	80-120	
Chlorobenzene	50.00	46.85	93.72	80-120	
Chloroethane	50.00	44.10	88.21	80-120	
Chloroform	50.00	46.14	92.28	80-120	
Chloromethane	50.00	46.79	93.60	80-120	
Chloroprene	50.00	44.24	88.49	80-120	
cis-1,2-Dichloroethene	50.00	46.74	93.49	80-120	
cis-1,3-Dichloropropene	50.00	48.57	97.14	80-120	
Dibromochloromethane	50.00	50.08	100.16	80-120	
Dibromomethane	50.00	46.76	93.54	80-120	
Dichlorodifluoromethane	50.00	45.43	90.86	80-120	
Ethylbenzene	50.00	46.69	93.39	80-120	
Ethyl Methacrylate	50.00	45.38	90.77	80-120	
Iodomethane	100.00	84.97	84.97	80-120	
Isobutyl Alcohol	1000.00	948.23	94.82	70-130	
Propionitrile	500.00	493.55	98.71	70-130	
Hexachlorobutadiene	50.00	55.74	111.50	80-120	
Isopropylbenzene	50.00	45.23	90.48	80-120	
m,p-Xylenes	100.00	93.85	93.86	80-120	
Methyl tert-butyl ether	50.00	43.73	87.46	80-120	
Methylene Chloride	50.00	44.31	88.63	80-120	
Methacrylonitrile	50.00	45.21	90.44	80-120	
Methyl Methacrylate	50.00	44.49	88.98	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	CCV	**Client Smp ID**	CCV
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	X081113.D	**Inj Date**	11-AUG-2023 15:38

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	41.72	83.46	80-120	
n-Propylbenzene	50.00	46.88	93.78	80-120	
Naphthalene	50.00	46.99	93.99	80-120	
o-Xylene	50.00	46.65	93.31	80-120	
sec-Butylbenzene	50.00	45.63	91.26	80-120	
Styrene	50.00	49.82	99.65	80-120	
tert-Butylbenzene	50.00	44.87	89.74	80-120	
Tetrachloroethene	50.00	46.44	92.89	80-120	
Toluene	50.00	46.60	93.20	80-120	
trans-1,2-Dichloroethene	50.00	44.38	88.76	80-120	
trans-1,3-Dichloropropene	50.00	49.15	98.31	80-120	
trans-1,4-Dichloro-2-butene	50.00	46.25	92.50	80-120	
Trichloroethene	50.00	46.39	92.78	80-120	
Trichlorofluoromethane	50.00	43.52	87.04	80-120	
Vinyl Acetate	100.00	96.33	96.34	80-120	
Vinyl Chloride	50.00	45.74	91.48	80-120	
Ethyl Acrylate	50.00	42.49	84.99	80-120	
Butyl acrylate	50.00	44.95	89.92	80-120	
1,2-Dichloroethylene (total)	100.00	91.12	91.13	80-120	
Xylenes (total)	150.00	140.51	93.67	80-120	
1,4-Dioxane	1000.00	972.68	97.27	80-120	
Dibromofluoromethane	50.00	51.73	103.47	71-125	
1,2-Dichloroethane-d4	50.00	51.05	102.10	70-125	
Toluene-d8	50.00	48.82	97.66	75-125	
4-Bromofluorobenzene	50.00	50.64	101.30	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082103.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 21-AUG-2023 0852
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00636	0.00558	0.00558	0.001	12.22636	20.0	Averaged	
1,3-Butadiene	0.51512	0.47940	0.47940	0.100	6.93428	20.0	Averaged	
Methacrylonitrile	0.49867	0.44131	0.44131	0.100	11.50145	20.0	Averaged	
Isobutyl Alcohol	0.07838	0.07161	0.07161	0.005	8.63564	20.0	Averaged	
Acetonitrile	0.07711	0.06622	0.06622	0.005	14.12213	20.0	Averaged	
Allyl Chloride	1.52323	1.25962	1.25962	0.100	17.30611	20.0	Averaged	
Propionitrile	0.06963	0.06237	0.06237	0.010	10.42221	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12607	0.12239	0.12239	0.050	2.91711	20.0	Averaged	
Acetaldehyde	200	130	0.03357	0.001	34.87547	20.0	Linear	*
Chloroprene	0.21152	++++	1.031e+60	0.100	++++	20.0	Averaged	*
Ethyl Acetate	0.57392	0.50022	0.50022	0.100	12.84118	20.0	Averaged	
Methyl Methacrylate	0.46004	0.42170	0.42170	0.100	8.33477	20.0	Averaged	
Ethyl Methacrylate	0.45808	0.43978	0.43978	0.100	3.99468	20.0	Averaged	
Methyl Acrylate	0.49397	0.43480	0.43480	0.100	11.97800	20.0	Averaged	
n-Butanol	1000	834	0.01088	0.005	16.57113	20.0	Linear	
n-Hexane	50.0	61.68541	0.60441	0.100	-23.37082	20.0	Quadratic	*
Diethyl ether	0.44131	0.36879	0.36879	0.100	16.43292	20.0	Averaged	
Tetrahydrofuran	0.09754	0.08013	0.08013	0.001	17.84239	20.0	Averaged	
alpha-Methylstyrene	1.06350	1.11856	1.11856	0.100	-5.17747	20.0	Averaged	
Diisopropyl ether	1.80079	1.61167	1.61167	0.100	10.50192	20.0	Averaged	
Butyl acrylate	0.81441	0.77150	0.77150	0.100	5.26861	20.0	Averaged	
Ethanol	1000	865	0.00514	0.001	13.51002	20.0	Linear	
Dimethyl Disulfide	0.65830	0.72375	0.72375	0.100	-9.94202	20.0	Averaged	
Epichlorohydrin	0.03058	0.02616	0.02616	0.001	14.44374	20.0	Averaged	
Dicyclopentadiene	50.0	53.43649	2.85024	0.100	-6.87299	20.0	Quadratic	
1,2,3-Trimethylbenzene	2.32079	2.32344	2.32344	0.100	-0.11416	20.0	Averaged	
2-Ethylhexyl Acrylate	1.02142	1.18831	1.18831	0.100	-16.33938	20.0	Averaged	
Benzyl Chloride	0.71568	0.80390	0.80390	0.010	-12.32598	20.0	Averaged	
Cyclohexanone	0.03184	0.02996	0.02996	0.005	5.89030	20.0	Averaged	
Isobutylene	0.06561	++++	1.031e+60	0.010	++++	20.0	Averaged	*
Ethyl Acrylate	1.18271	1.20079	1.20079	0.100	-1.52887	20.0	Averaged	
Butyl methacrylate	1.01345	0.92180	0.92180	0.100	9.04289	20.0	Averaged	
Isopropyl acetate	1.00992	0.94604	0.94604	0.100	6.32532	20.0	Averaged	
n-Butyl acetate	0.57351	0.53860	0.53860	0.100	6.08720	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082103.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 21-AUG-2023 0852
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	47.38591	0.43410	0.100	5.22819	20.0	Linear	
Chloromethane	0.48655	0.44836	0.44836	0.100	7.84913	20.0	Averaged	
Vinyl Chloride	0.59972	0.56272	0.56272	0.100	6.17009	20.0	Averaged	
Bromomethane	0.32283	0.27863	0.27863	0.100	13.68858	20.0	Averaged	
Chloroethane	0.39307	0.35514	0.35514	0.100	9.65131	20.0	Averaged	
Trichlorofluoromethane	0.85354	0.83617	0.83617	0.100	2.03545	20.0	Averaged	
Acrolein	100	84.71710	0.01395	0.010	15.28290	20.0	Linear	
Acetone	100	97.21328	0.18819	0.100	2.78672	20.0	Linear	
1,1-Dichloroethene	0.48279	0.44678	0.44678	0.100	7.45986	20.0	Averaged	
Iodomethane	100	95.11034	0.53808	0.100	4.88966	20.0	Quadratic	
Acrylonitrile	0.23258	0.19205	0.19205	0.050	17.42357	20.0	Averaged	
Methylene Chloride	0.60545	0.51942	0.51942	0.100	14.20975	20.0	Averaged	
Methyl tert-butyl ether	1.72214	1.47713	1.47713	0.100	14.22706	20.0	Averaged	
Carbon Disulfide	1.43284	1.33214	1.33214	0.100	7.02777	20.0	Averaged	
trans-1,2-Dichloroethene	0.56105	0.49834	0.49834	0.100	11.17795	20.0	Averaged	
Vinyl Acetate	1.65961	1.48293	1.48293	0.010	10.64551	20.0	Averaged	
1,1-Dichloroethane	1.05661	0.91549	0.91549	0.200	13.35636	20.0	Averaged	
2-Butanone	0.18508	0.17832	0.17832	0.100	3.65219	20.0	Averaged	
2,2-Dichloropropane	50.0	51.29768	0.72773	0.100	-2.59536	20.0	Linear	
cis-1,2-Dichloroethene	0.53879	0.52842	0.52842	0.100	1.92448	20.0	Averaged	
Chloroform	0.92608	0.87993	0.87993	0.200	4.98330	20.0	Averaged	
Bromochloromethane	0.30629	0.29092	0.29092	0.100	5.01985	20.0	Averaged	
30 Dibromofluoromethane	50.0	52.14926	0.47796	0.100	-4.29852	20.0	Linear	
1,1,1-Trichloroethane	0.74351	0.75760	0.75760	0.100	-1.89515	20.0	Averaged	
1,1-Dichloropropene	0.39342	0.42042	0.42042	0.100	-6.86160	20.0	Averaged	
1,2-Dichloroethane	0.47531	0.45644	0.45644	0.100	3.96913	20.0	Averaged	
Carbon Tetrachloride	0.41532	0.44450	0.44450	0.100	-7.02506	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	50.41674	0.51488	0.100	-0.83347	20.0	Linear	
Benzene	1.23156	1.20775	1.20775	0.500	1.93352	20.0	Averaged	
Trichloroethene	0.35394	0.36361	0.36361	0.200	-2.72969	20.0	Averaged	
Bromodichloromethane	0.45867	0.45348	0.45348	0.200	1.13226	20.0	Averaged	
2-Chloroethylvinyl ether	0.11734	0.10566	0.10566	0.001	9.95626	20.0	Averaged	
1,2-Dichloropropane	0.34726	0.34216	0.34216	0.100	1.46916	20.0	Averaged	
Dibromomethane	0.23732	0.22450	0.22450	0.100	5.40214	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082103.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 21-AUG-2023 0852
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.35866	0.31967	0.31967	0.100	10.87107	20.0	Averaged	
cis-1,3-Dichloropropene	0.52485	0.53189	0.53189	0.200	-1.34174	20.0	Averaged	
48 Toluene-d8	1.17670	1.14424	1.14424	0.100	2.75901	20.0	Averaged	
Toluene	1.39321	1.37065	1.37065	0.400	1.61952	20.0	Averaged	
trans-1,3-Dichloropropene	0.44050	0.44886	0.44886	0.100	-1.89761	20.0	Averaged	
2-Hexanone	0.24075	0.21730	0.21730	0.100	9.74164	20.0	Averaged	
1,1,2-Trichloroethane	0.27772	0.27591	0.27591	0.100	0.64981	20.0	Averaged	
1,3-Dichloropropane	0.56772	0.55365	0.55365	0.100	2.47791	20.0	Averaged	
Dibromochloromethane	0.40081	0.41507	0.41507	0.100	-3.55888	20.0	Averaged	
Tetrachloroethene	0.28958	0.31915	0.31915	0.200	-10.21320	20.0	Averaged	
1,2-Dibromoethane	0.33926	0.33421	0.33421	0.100	1.48955	20.0	Averaged	
1-Chlorohexane	0.28929	0.31878	0.31878	0.100	-10.19319	20.0	Averaged	
Chlorobenzene	0.95999	0.94710	0.94710	0.500	1.34263	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37082	0.38303	0.38303	0.100	-3.29263	20.0	Averaged	
Ethylbenzene	0.47409	0.48903	0.48903	0.100	-3.15100	20.0	Averaged	
m,p-Xylenes	0.60647	0.63571	0.63571	0.100	-4.82166	20.0	Averaged	
o-Xylene	0.59764	0.60902	0.60902	0.300	-1.90565	20.0	Averaged	
Styrene	0.99383	1.05494	1.05494	0.300	-6.14868	20.0	Averaged	
Bromoform	0.27043	0.28826	0.28826	0.100	-6.59357	20.0	Averaged	
Isopropylbenzene	1.48513	1.58868	1.58868	0.100	-6.97239	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.81390	0.75486	0.75486	0.300	7.25428	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	51.55963	0.50904	0.100	-3.11925	20.0	Linear	
1,2,3-Trichloropropane	0.59855	0.59519	0.59519	0.100	0.56135	20.0	Averaged	
n-Propylbenzene	2.95633	3.26547	3.26547	0.100	-10.45702	20.0	Averaged	
Bromobenzene	0.79916	0.79934	0.79934	0.100	-0.02367	20.0	Averaged	
1,3,5-Trimethylbenzene	2.16123	2.30352	2.30352	0.100	-6.58402	20.0	Averaged	
2-Chlorotoluene	1.89312	1.91590	1.91590	0.100	-1.20338	20.0	Averaged	
4-Chlorotoluene	2.17830	2.26757	2.26757	0.100	-4.09826	20.0	Averaged	
tert-Butylbenzene	1.85160	2.02284	2.02284	0.100	-9.24840	20.0	Averaged	
1,2,4-Trimethylbenzene	2.22557	2.33053	2.33053	0.100	-4.71589	20.0	Averaged	
sec-Butylbenzene	2.53833	2.88904	2.88904	0.100	-13.81625	20.0	Averaged	
p-Isopropyltoluene	2.29509	2.56435	2.56435	0.100	-11.73173	20.0	Averaged	
1,3-Dichlorobenzene	1.42329	1.46793	1.46793	0.600	-3.13596	20.0	Averaged	
1,4-Dichlorobenzene	1.52430	1.52651	1.52651	0.400	-0.14541	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082103.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 21-AUG-2023 0852
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
n-Butylbenzene	50.0	51.73021	2.31503	0.500	-3.46043	20.0	Linear	
1,2-Dichlorobenzene	1.43671	1.45139	1.45139	0.400	-1.02176	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13765	0.13256	0.13256	0.040	3.69136	20.0	Averaged	
1,2,4-Trichlorobenzene	0.95073	1.03727	1.03727	0.100	-9.10265	20.0	Averaged	
Hexachlorobutadiene	50.0	68.99457	0.52368	0.100	-37.98913	20.0	Quadratic	*
Naphthalene	2.37302	2.27916	2.27916	0.200	3.95518	20.0	Averaged	
1,2,3-Trichlorobenzene	0.92647	0.94326	0.94326	0.010	-1.81170	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.54992	0.51338	0.51338	0.200	6.64485	20.0	Averaged	
95 Xylenes (total)	0.58209	0.60404	0.60404	0.100	-3.77111	20.0	Averaged	
Cyclohexane	50.0	52.81829	0.70813	0.100	-5.63658	20.0	Linear	
Freon TF	50.0	50.97834	0.48005	0.100	-1.95668	20.0	Linear	
Methylcyclohexane	0.75114	0.79024	0.79024	0.100	-5.20605	20.0	Averaged	
Methyl Acetate	0.44930	0.37934	0.37934	0.100	15.57010	20.0	Averaged	
Tert-butyl alcohol	1000	857	0.05174	0.005	14.33387	20.0	Linear	
Isopropyl alcohol	1000	858	0.03019	0.005	14.15179	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082131.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 21-AUG-2023 1915
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00636	0.00594	0.00594	0.001	6.46209	20.0	Averaged	
1,3-Butadiene	0.51512	0.48978	0.48978	0.100	4.92039	20.0	Averaged	
Methacrylonitrile	0.49867	0.46996	0.46996	0.100	5.75767	20.0	Averaged	
Isobutyl Alcohol	0.07838	0.07260	0.07260	0.005	7.37078	20.0	Averaged	
Acetonitrile	0.07711	0.07039	0.07039	0.005	8.71692	20.0	Averaged	
Allyl Chloride	1.52323	1.32815	1.32815	0.100	12.80669	20.0	Averaged	
Propionitrile	0.06963	0.06724	0.06724	0.010	3.44023	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12607	0.11480	0.11480	0.050	8.93453	20.0	Averaged	
Acetaldehyde	200	149	0.03815	0.001	25.39321	20.0	Linear	*
Chloroprene	0.21152	0.20564	0.20564	0.100	2.78011	20.0	Averaged	
Ethyl Acetate	0.57392	0.51472	0.51472	0.100	10.31461	20.0	Averaged	
Methyl Methacrylate	0.46004	0.42993	0.42993	0.100	6.54572	20.0	Averaged	
Ethyl Methacrylate	0.45808	0.44966	0.44966	0.100	1.83661	20.0	Averaged	
Methyl Acrylate	0.49397	0.51475	0.51475	0.100	-4.20648	20.0	Averaged	
n-Butanol	1000	865	0.01131	0.005	13.48694	20.0	Linear	
n-Hexane	50.0	62.07698	0.60923	0.100	-24.15397	20.0	Quadratic	*
Diethyl ether	0.44131	0.39493	0.39493	0.100	10.50919	20.0	Averaged	
Tetrahydrofuran	0.09754	0.08219	0.08219	0.001	15.72894	20.0	Averaged	
alpha-Methylstyrene	1.06350	1.07488	1.07488	0.100	-1.07088	20.0	Averaged	
Diisopropyl ether	1.80079	1.65652	1.65652	0.100	8.01178	20.0	Averaged	
Butyl acrylate	0.81441	0.78372	0.78372	0.100	3.76830	20.0	Averaged	
Ethanol	1000	979	0.00580	0.001	2.11975	20.0	Linear	
Dimethyl Disulfide	0.65830	0.70017	0.70017	0.100	-6.35937	20.0	Averaged	
Epichlorohydrin	0.03058	0.02527	0.02527	0.001	17.34516	20.0	Averaged	
Dicyclopentadiene	50.0	52.08702	2.77685	0.100	-4.17404	20.0	Quadratic	
1,2,3-Trimethylbenzene	2.32079	2.28058	2.28058	0.100	1.73273	20.0	Averaged	
2-Ethylhexyl Acrylate	1.02142	1.11956	1.11956	0.100	-9.60860	20.0	Averaged	
Benzyl Chloride	0.71568	0.64803	0.64803	0.010	9.45306	20.0	Averaged	
Cyclohexanone	0.03184	0.02485	0.02485	0.005	21.94453	20.0	Averaged	*
Isobutylene	0.06561	++++	1.031e+60	0.010	++++	20.0	Averaged	*
Ethyl Acrylate	1.18271	1.24627	1.24627	0.100	-5.37423	20.0	Averaged	
Butyl methacrylate	1.01345	0.88628	0.88628	0.100	12.54790	20.0	Averaged	
Isopropyl acetate	1.00992	0.91214	0.91214	0.100	9.68211	20.0	Averaged	
n-Butyl acetate	0.57351	0.54398	0.54398	0.100	5.14833	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082131.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 21-AUG-2023 1915
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	48.95813	0.44871	0.100	2.08373	20.0	Linear	
Chloromethane	0.48655	0.43939	0.43939	0.100	9.69161	20.0	Averaged	
Vinyl Chloride	0.59972	0.59725	0.59725	0.100	0.41170	20.0	Averaged	
Bromomethane	0.32283	0.30260	0.30260	0.100	6.26422	20.0	Averaged	
Chloroethane	0.39307	0.36923	0.36923	0.100	6.06532	20.0	Averaged	
Trichlorofluoromethane	0.85354	0.89608	0.89608	0.100	-4.98383	20.0	Averaged	
Acrolein	100	156	0.02537	0.010	-56.27626	20.0	Linear	*
Acetone	100	89.10661	0.17320	0.100	10.89339	20.0	Linear	
1,1-Dichloroethene	0.48279	0.48189	0.48189	0.100	0.18791	20.0	Averaged	
Iodomethane	100	98.99633	0.56216	0.100	1.00367	20.0	Quadratic	
Acrylonitrile	0.23258	0.20944	0.20944	0.050	9.94771	20.0	Averaged	
Methylene Chloride	0.60545	0.55591	0.55591	0.100	8.18288	20.0	Averaged	
Methyl tert-butyl ether	1.72214	1.53844	1.53844	0.100	10.66691	20.0	Averaged	
Carbon Disulfide	1.43284	1.40525	1.40525	0.100	1.92552	20.0	Averaged	
trans-1,2-Dichloroethene	0.56105	0.54443	0.54443	0.100	2.96323	20.0	Averaged	
Vinyl Acetate	1.65961	1.43566	1.43566	0.010	13.49399	20.0	Averaged	
1,1-Dichloroethane	1.05661	0.97599	0.97599	0.200	7.63034	20.0	Averaged	
2-Butanone	0.18508	0.17689	0.17689	0.100	4.42778	20.0	Averaged	
2,2-Dichloropropane	50.0	47.28362	0.67081	0.100	5.43276	20.0	Linear	
cis-1,2-Dichloroethene	0.53879	0.53688	0.53688	0.100	0.35544	20.0	Averaged	
Chloroform	0.92608	0.91144	0.91144	0.200	1.58052	20.0	Averaged	
Bromochloromethane	0.30629	0.30184	0.30184	0.100	1.45460	20.0	Averaged	
30 Dibromofluoromethane	50.0	54.21823	0.49662	0.100	-8.43646	20.0	Linear	
1,1,1-Trichloroethane	0.74351	0.77877	0.77877	0.100	-4.74139	20.0	Averaged	
1,1-Dichloropropene	0.39342	0.41241	0.41241	0.100	-4.82635	20.0	Averaged	
1,2-Dichloroethane	0.47531	0.44188	0.44188	0.100	7.03210	20.0	Averaged	
Carbon Tetrachloride	0.41532	0.42762	0.42762	0.100	-2.96020	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	52.00683	0.53076	0.100	-4.01366	20.0	Linear	
Benzene	1.23156	1.21184	1.21184	0.500	1.60114	20.0	Averaged	
Trichloroethene	0.35394	0.36483	0.36483	0.200	-3.07516	20.0	Averaged	
Bromodichloromethane	0.45867	0.43409	0.43409	0.200	5.35914	20.0	Averaged	
2-Chloroethylvinyl ether	0.11734	0.10367	0.10367	0.001	11.65117	20.0	Averaged	
1,2-Dichloropropane	0.34726	0.32885	0.32885	0.100	5.30082	20.0	Averaged	
Dibromomethane	0.23732	0.22278	0.22278	0.100	6.12685	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082131.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 21-AUG-2023 1915
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.35866	0.32412	0.32412	0.100	9.63048	20.0	Averaged	
cis-1,3-Dichloropropene	0.52485	0.49840	0.49840	0.200	5.04051	20.0	Averaged	
48 Toluene-d8	1.17670	1.14742	1.14742	0.100	2.48831	20.0	Averaged	
Toluene	1.39321	1.38194	1.38194	0.400	0.80927	20.0	Averaged	
trans-1,3-Dichloropropene	0.44050	0.41806	0.41806	0.100	5.09271	20.0	Averaged	
2-Hexanone	0.24075	0.22363	0.22363	0.100	7.11197	20.0	Averaged	
1,1,2-Trichloroethane	0.27772	0.27282	0.27282	0.100	1.76428	20.0	Averaged	
1,3-Dichloropropane	0.56772	0.55013	0.55013	0.100	3.09882	20.0	Averaged	
Dibromochloromethane	0.40081	0.40494	0.40494	0.100	-1.03188	20.0	Averaged	
Tetrachloroethene	0.28958	0.31424	0.31424	0.200	-8.51825	20.0	Averaged	
1,2-Dibromoethane	0.33926	0.33260	0.33260	0.100	1.96396	20.0	Averaged	
1-Chlorohexane	0.28929	0.30636	0.30636	0.100	-5.90118	20.0	Averaged	
Chlorobenzene	0.95999	0.94554	0.94554	0.500	1.50520	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37082	0.37497	0.37497	0.100	-1.11856	20.0	Averaged	
Ethylbenzene	0.47409	0.49319	0.49319	0.100	-4.02889	20.0	Averaged	
m,p-Xylenes	0.60647	0.63165	0.63165	0.100	-4.15184	20.0	Averaged	
o-Xylene	0.59764	0.60523	0.60523	0.300	-1.27044	20.0	Averaged	
Styrene	0.99383	1.04240	1.04240	0.300	-4.88637	20.0	Averaged	
Bromoform	0.27043	0.28127	0.28127	0.100	-4.00782	20.0	Averaged	
Isopropylbenzene	1.48513	1.59671	1.59671	0.100	-7.51317	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.81390	0.74245	0.74245	0.300	8.77863	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	51.65619	0.51000	0.100	-3.31239	20.0	Linear	
1,2,3-Trichloropropane	0.59855	0.78912	0.78912	0.100	-31.84031	20.0	Averaged	*
n-Propylbenzene	2.95633	3.16326	3.16326	0.100	-6.99942	20.0	Averaged	
Bromobenzene	0.79916	0.78243	0.78243	0.100	2.09296	20.0	Averaged	
1,3,5-Trimethylbenzene	2.16123	2.22750	2.22750	0.100	-3.06623	20.0	Averaged	
2-Chlorotoluene	1.89312	1.85783	1.85783	0.100	1.86382	20.0	Averaged	
4-Chlorotoluene	2.17830	2.17407	2.17407	0.100	0.19417	20.0	Averaged	
tert-Butylbenzene	1.85160	1.99536	1.99536	0.100	-7.76389	20.0	Averaged	
1,2,4-Trimethylbenzene	2.22557	2.25801	2.25801	0.100	-1.45752	20.0	Averaged	
sec-Butylbenzene	2.53833	2.78566	2.78566	0.100	-9.74356	20.0	Averaged	
p-Isopropyltoluene	2.29509	2.45161	2.45161	0.100	-6.81941	20.0	Averaged	
1,3-Dichlorobenzene	1.42329	1.42246	1.42246	0.600	0.05855	20.0	Averaged	
1,4-Dichlorobenzene	1.52430	1.49314	1.49314	0.400	2.04406	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082131.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 21-AUG-2023 1915
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
n-Butylbenzene	50.0	49.17642	2.19610	0.500	1.64715	20.0	Linear	
1,2-Dichlorobenzene	1.43671	1.39735	1.39735	0.400	2.73966	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13765	0.13225	0.13225	0.040	3.91947	20.0	Averaged	
1,2,4-Trichlorobenzene	0.95073	0.98822	0.98822	0.100	-3.94381	20.0	Averaged	
Hexachlorobutadiene	50.0	62.70462	0.46265	0.100	-25.40923	20.0	Quadratic	*
Naphthalene	2.37302	2.24476	2.24476	0.200	5.40483	20.0	Averaged	
1,2,3-Trichlorobenzene	0.92647	0.90131	0.90131	0.010	2.71662	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.54992	0.54065	0.54065	0.200	1.68572	20.0	Averaged	
95 Xylenes (total)	0.58209	0.59736	0.59736	0.100	-2.62297	20.0	Averaged	
Cyclohexane	50.0	54.29617	0.72866	0.100	-8.59234	20.0	Linear	
Freon TF	50.0	54.15366	0.51063	0.100	-8.30733	20.0	Linear	
Methylcyclohexane	0.75114	0.78317	0.78317	0.100	-4.26423	20.0	Averaged	
Methyl Acetate	0.44930	0.41041	0.41041	0.100	8.65440	20.0	Averaged	
Tert-butyl alcohol	1000	951	0.05737	0.005	4.87487	20.0	Linear	
Isopropyl alcohol	1000	941	0.03305	0.005	5.89782	20.0	Linear	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6_444410		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	X081802.D	690449	#	4.18	#	1067199	#	4.97	#	1010392	#	7.67	#	594409	#	9.66	#
HS23081040-01	X081821.D	613389		4.18		923993		4.97		846985		7.67		450287		9.66	
HS23081040-02	X081816.D	650155		4.18		943604		4.97		877434		7.67		478493		9.66	
VBLKW-230818	X081807.D	666490		4.18		967218		4.97		909928		7.67		483461		9.66	
VLCSW-230818	X081805.D	662730		4.18		1025066		4.97		964309		7.67		564401		9.66	
MS-ZZZZZZMS	X081813.D	657172		4.18		974506		4.97		892070		7.67		504584		9.66	
ZZZZZZMSD	X081814.D	666645		4.18		983198		4.97		896910		7.67		517234		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6_444516		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	X082103.D	699453	#	4.18	#	1062833	#	4.97	#	1024221	#	7.67	#	599978	#	9.66	#
HS23081040-01	X082130.D	659146		4.18		959077		4.97		890997		7.67		471601		9.66	
HS23081040-01	X082129.D	664070		4.18		975713		4.97		896750		7.67		484440		9.66	
HS23081040-02	X082126.D	674968		4.18		980744		4.97		904131		7.67		490217		9.66	
VBLKW-230821	X082107.D	682231		4.18		979243		4.97		922904		7.67		511816		9.66	
VLCSW-230821	X082105.D	702162		4.18		1075416		4.97		1023227		7.67		583853		9.66	
MS-ZZZZZZMS	X082121.D	677527		4.18		993486		4.97		912969		7.67		518716		9.66	
ZZZZZZMSD	X082122.D	694999		4.18		1036298		4.97		971397		7.67		572386		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

RunID VOA6-443843

Volatiles by EPA Volatiles Organics by Method 8260C

Run ID VOA6_443843 **Start Date** 08/11/23 **EndDate** 08/11/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:13	BFB	TUNE	BFB	X081101.D	08/11/23	1
11:33	VSTD000.25	ICAL1	VSTD000.25	X081102.D	08/11/23	1
12:14	VSTD000.5	ICAL2	VSTD000.5	X081103.D	08/11/23	1
12:35	VSTD001	ICAL3	VSTD001	X081104.D	08/11/23	1
12:55	VSTD002	ICAL4	VSTD002	X081105.D	08/11/23	1
13:15	VSTD005	ICAL5	VSTD005	X081106.D	08/11/23	1
13:36	VSTD020	ICAL6	VSTD020	X081107.D	08/11/23	1
13:56	VSTD050	ICAL7	VSTD050	X081108.D	08/11/23	1
14:17	VSTD100	ICAL8	VSTD100	X081109.D	08/11/23	1
14:37	VSTD150	ICAL9	VSTD150	X081110.D	08/11/23	1
14:57	VSTD200	ICAL	VSTD200	X081111.D	08/11/23	1
15:38	CCV	ICV	CCV	X081113.D	08/11/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

Volatiles by EPA Volatiles Organics by Method 8260C

RunID VOA6-444516

Run ID VOA6_444516 **Start Date** 08/21/23 **EndDate** 08/21/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
08:11	BFB	TUNE	BFB	X082101.D	08/21/23	1
08:52	CCV	CCV	CCV	X082103.D	08/21/23	1
09:33	VLCSW-230821	LCS	VLCSW-230821	X082105.D	08/21/23	1
10:14	VBLKW-230821	MBLK	VBLKW-230821	X082107.D	08/21/23	1
15:30	HS23081216-13	SAMP	ZZZZZZZZZZ	X082120.D	08/21/23	1
15:51	HS23081216-13MS	MS	ZZZZZZMS	X082121.D	08/21/23	1
16:11	HS23081216-13MSD	MSD	ZZZZZZMSD	X082122.D	08/21/23	1
17:33	HS23081040-02	SAMP	Trip Blank	X082126.D	08/21/23	1
17:54	HS23081076-03	SAMP	ZZZZZZZZZZ	X082127.D	08/21/23	1
18:14	HS23081076-01	SAMP	ZZZZZZZZZZ	X082128.D	08/21/23	1
18:34	HS23081040-01	SAMP	LH18/24-	X082129.D	08/21/23	10
18:55	HS23081040-01	SAMP	LH18/24-	X082130.D	08/21/23	100
19:15	CCV_END	CCV_END	CCV_END	X082131.D	08/21/23	1

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Raw Data VOA6 443843

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081101.D Page 1
Report Date: 11-Aug-2023 11:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081101.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 11-AUG-2023 11:13
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\bfb.m
Meth Date : 06-Feb-2018 12:19 pcabasca Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	133504			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	29288			15.00- 40.00	21.94
8.687	8.889	(0.000)	75	71592			30.00- 60.00	53.63
8.687	8.889	(0.000)	96	8909			5.00- 9.00	6.67
8.687	8.889	(0.000)	173	1436			0.00- 2.00	1.20
8.687	8.889	(0.000)	174	119896			50.00- 0.00	89.81
8.687	8.889	(0.000)	175	9940			5.00- 9.00	8.29
8.687	8.889	(0.000)	176	116688			95.00- 101.00	97.32
8.687	8.889	(0.000)	177	8151			5.00- 9.00	6.99

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.94
75	30.00 - 60.00% of mass 95	53.63
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	1.08 (1.20)
174	Greater than 50.00% of mass 95	89.81
175	5.00 - 9.00% of mass 174	7.45 (8.29)
176	95.00 - 101.00% of mass 174	87.40 (97.32)
177	5.00 - 9.00% of mass 176	6.11 (6.99)

Data File: X081101.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1489	66.90	454	96.00	8909	139.70	97
37.00	9334	68.00	15426	97.10	317	140.90	1519
38.00	8002	69.00	16323	103.80	1007	141.70	221
39.00	2897	69.90	960	104.70	209	142.90	1486
40.00	2340	70.10	1008	105.90	671	143.70	56
40.90	128	70.90	129	106.80	182	145.70	208
43.10	411	71.80	501	109.90	155	147.70	275
44.00	3487	73.00	6125	111.00	302	148.90	79
45.00	1525	74.00	26376	111.70	142	149.80	173
46.00	235	75.00	71592	112.60	141	151.70	54
47.00	1767	76.00	6877	113.00	142	152.60	72
47.90	1117	77.00	1148	114.90	321	154.00	61
49.00	6205	78.00	937	115.60	465	154.80	330
50.00	29288	78.90	6479	116.10	489	156.90	430
51.10	8526	79.90	1839	116.80	1358	158.70	315
52.10	216	80.90	7153	117.70	508	160.90	203
55.10	453	81.90	1248	118.80	884	169.30	52
55.90	2727	82.80	135	123.90	264	170.20	191
57.00	4451	83.20	170	125.00	121	171.20	109
57.90	475	86.10	234	127.00	76	172.90	1436
60.00	1216	87.00	5967	127.80	678	173.90	119896
61.00	6884	87.90	5466	128.60	243	174.90	9940
62.00	7158	88.70	396	129.80	454	175.90	116688
63.00	6527	90.90	677	130.90	241	176.90	8151
63.80	288	91.90	4406	135.00	136	189.20	58
64.20	280	93.00	5676	136.90	208	277.90	56
65.00	63	94.00	15567	137.60	65	280.80	137
65.80	79	95.00	133504	138.80	118		

Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081101.d Page 1

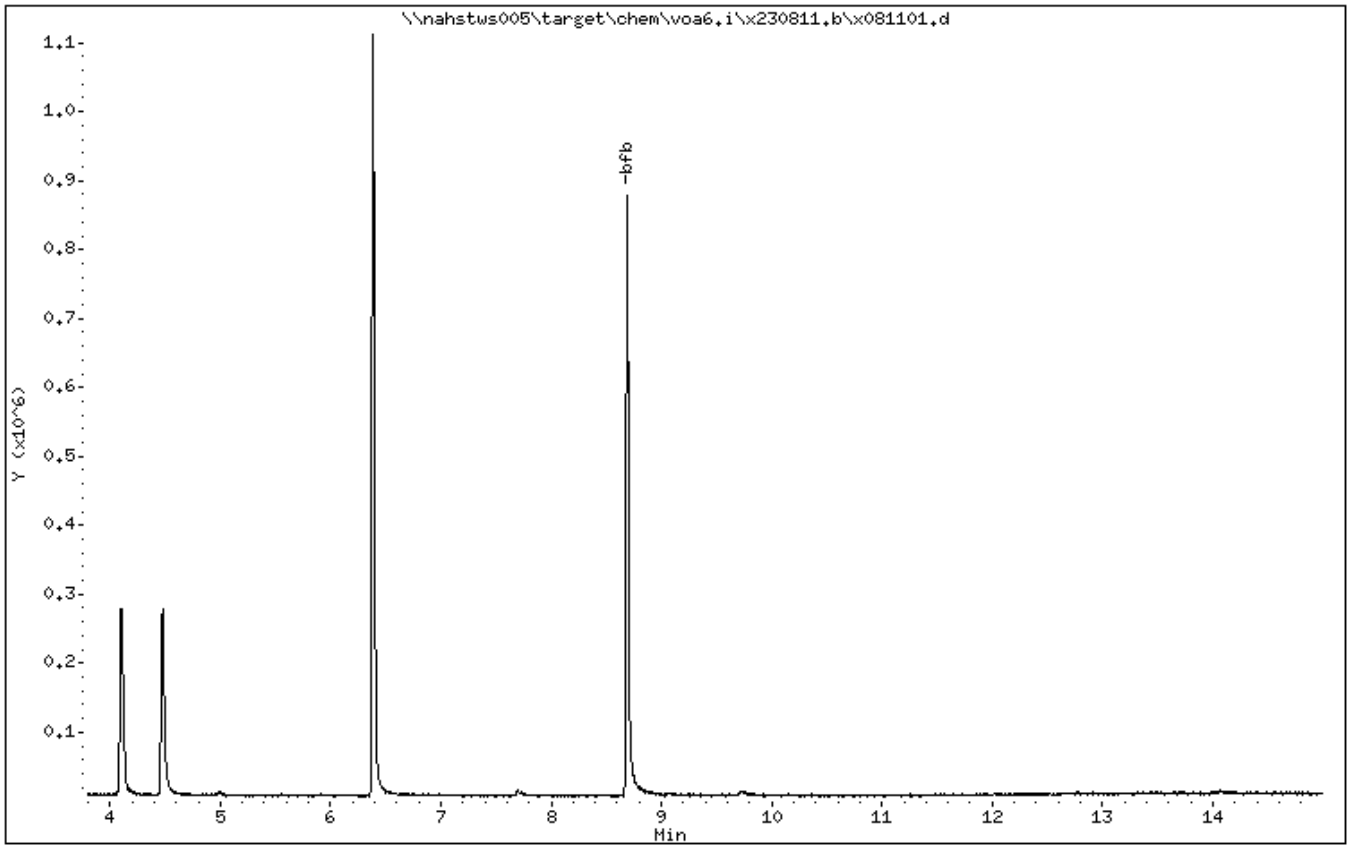
Date : 11-AUG-2023 11:13

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



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Inj Date : 11-AUG-2023 11:13
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081102.D Page 1
Report Date: 23-Aug-2023 11:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081102.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 11-AUG-2023 11:33
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 14:57 Cal File: X081111.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

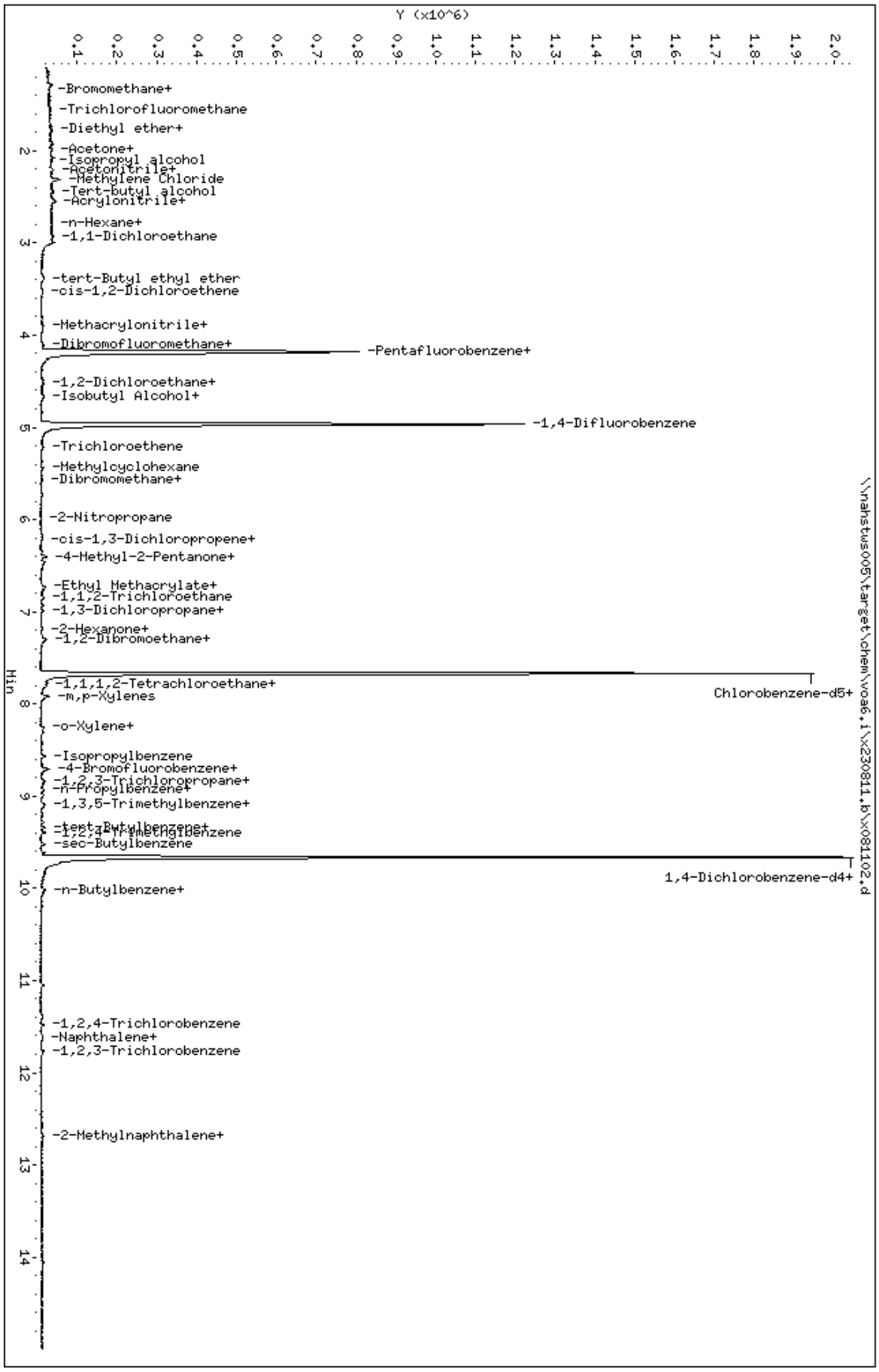
		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	626188	50.0000	
	2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	974	0.25000	0.83
	9 Acrolein	56	1.336	1.336	(0.320)	816	0.50000	1.34(Ta)
	13 Acetonitrile	39	2.210	2.210	(0.528)	2035	2.50000	2.10(a)
	15 Iodomethane	142	2.033	2.033	(0.486)	1065	0.50000	5.70(T)
	17 Methylene Chloride	84	2.307	2.307	(0.552)	7629	0.25000	1.00
	32 1,1-Dichloropropene	75	4.185	4.185	(0.842)	40609	0.25000	5.22
	34 Carbon Tetrachloride	117	4.181	4.181	(0.842)	56019	0.25000	6.83
*	36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	987045	50.0000	
	43 2-Nitropropane	43	5.977	5.977	(1.429)	836	0.25000	0.36(a)
	44 Dibromomethane	93	5.553	5.553	(1.118)	1301	0.25000	0.27(a)
	45 4-Methyl-2-Pentanone	43	6.352	6.352	(0.828)	3113	0.50000	0.46(a)
	46 cis-1,3-Dichloropropene	75	6.161	6.161	(1.240)	2810	0.25000	0.27(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	938711	50.0000	
$	48 Toluene-d8	98	6.401	6.401	(0.835)	10047	0.25000	0.45(a)
	49 Ethyl Methacrylate	69	6.730	6.730	(1.355)	1234	0.25000	0.13(a)
	50 Toluene	91	6.461	6.461	(0.843)	7422	0.25000	0.28(a)
	52 2-Hexanone	43	7.132	7.132	(0.930)	1169	0.50000	0.25(a)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	1472	0.25000	0.28(a)
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	2926	0.25000	0.27(a)

55 Dibromochloromethane	129	7.180	7.180 (0.936)	2180	0.25000	0.28(a)
56 Tetrachloroethene	164	6.937	6.937 (0.905)	775	0.25000	0.14(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
57	1,2-Dibromoethane	107	7.281	7.281	(0.950)	1731	0.25000	0.27(a)
58	1-Chlorohexane	55	7.671	7.671	(1.544)	8794	0.25000	1.53(a)
59	Chlorobenzene	112	7.698	7.698	(1.004)	4792	0.25000	0.26(a)
60	1,1,1,2-Tetrachloroethane	131	7.784	7.784	(1.015)	1491	0.25000	0.21(a)
61	Ethylbenzene	106	7.810	7.810	(1.019)	2470	0.25000	0.27(a)
62	m,p-Xylenes	106	7.919	7.919	(1.033)	5302	0.50000	0.46(a)
63	o-Xylene	106	8.267	8.267	(1.078)	3049	0.25000	0.27(a)
64	Styrene	104	8.309	8.309	(1.084)	3334	0.25000	0.17(a)
67	Isopropylbenzene	105	8.571	8.571	(1.118)	6419	0.25000	0.23(a)
$ 69	4-Bromofluorobenzene	95	8.710	8.710	(1.136)	7582	0.25000	1.09(a)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	510942	50.0000	
71	1,2,3-Trichloropropane	75	8.882	8.882	(0.919)	2146	0.25000	0.35(a)
73	n-Propylbenzene	91	8.931	8.931	(0.924)	6502	0.25000	0.21(a)
74	Bromobenzene	156	8.833	8.833	(0.914)	1137	0.25000	0.13(a)
75	1,3,5-Trimethylbenzene	105	9.081	9.081	(0.940)	5894	0.25000	0.26(a)
76	2-Chlorotoluene	91	8.991	8.991	(0.931)	5547	0.25000	0.28(a)
77	4-Chlorotoluene	91	9.115	9.115	(0.943)	5886	0.25000	0.26(a)
78	tert-Butylbenzene	119	9.343	9.343	(0.967)	4589	0.25000	0.24(a)
79	1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	6557	0.25000	0.28(a)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	6673	0.25000	0.25(a)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	6091	0.25000	0.25(a)
83	1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	3071	0.25000	0.21(a)
84	1,4-Dichlorobenzene	146	9.677	9.677	(1.002)	4795	0.25000	0.30(a)
87	n-Butylbenzene	91	10.037	10.037	(1.039)	3022	0.25000	2.14(a)
88	1,2-Dichlorobenzene	146	10.022	10.022	(1.037)	3447	0.25000	0.23(a)
90	1,2,4-Trichlorobenzene	180	11.401	11.401	(1.180)	2133	0.25000	0.21(a)
92	Naphthalene	128	11.615	11.615	(1.202)	6120	0.25000	0.25(a)
93	1,2,3-Trichlorobenzene	180	11.772	11.772	(1.218)	2722	0.25000	0.28(a)
146	Methyl acetate	43	2.258	2.258	(0.540)	2769	0.25000	0.49(a)
138	Freon TF	101	1.925	1.925	(0.460)	806	0.25000	1.26(a)
141	Cyclohexane	56	4.178	4.178	(0.999)	12532	0.25000	3.27(a)
135	1,4-Dioxane	88	5.628	5.628	(1.346)	382	5.00000	4.79(aM)
136	n-Hexane	57	2.783	2.783	(0.666)	1292	0.25000	(a)
139	Diethyl ether	59	1.767	1.767	(0.423)	1799	0.25000	0.32(a)
149	Isopropyl alcohol	45	2.108	2.108	(0.504)	3100	5.00000	(Ta)
166	1,2,3-Trimethylbenzene	105	9.741	9.741	(1.008)	5876	0.25000	0.24(a)
174	tert-Amyl methyl ether	73	4.672	4.672	(1.117)	6668	0.25000	0.28(a)
175	tert-Butyl ethyl ether	59	3.387	3.387	(0.810)	5018	0.25000	0.24(a)
176	tert-Amyl alcohol	59	4.642	4.642	(1.110)	4020	5.00000	6.43
151	4-Methyl-2-pentanol	45	6.738	6.738	(1.356)	11486	5.00000	5.86
180	1-Methylnaphthalene	142	12.695	12.695	(1.314)	1515	0.25000	(a)
140	1,3-Butadiene	54	1.175	1.175	(0.281)	1199	0.25000	0.18(a)
159	Propylene oxide	43	1.801	1.801	(0.431)	2267	0.50000	2.24(a)
162	Butyl acrylate	55	8.305	8.305	(1.083)	1916	0.25000	0.12(a)
164	Dicyclopentadiene	66	9.662	9.662	(1.000)	19049	0.25000	0.61(a)
M 94	1,2-Dichloroethylene (total)	96				3170	0.50000	(a)
134	Cyclohexanone	55	8.657	8.657	(0.896)	1844	5.00000	5.66(a)
189	n-Butyl acetate	43	7.304	7.304	(0.953)	3645	0.25000	0.33(a)
150	Allyl alcohol	57	2.783	2.783	(0.666)	1292	5.00000	(a)
200	Dimethyl Disulfide	94	6.209	6.209	(0.810)	2212	0.25000	0.17(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081102.d
Date : 11-AUG-2023 11:33
Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

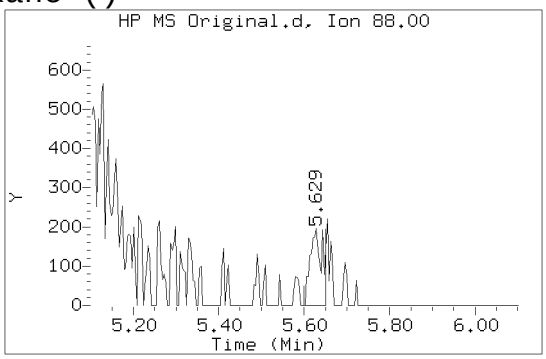
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081102.d
Inj Date : 11-AUG-2023 11:33
InstruID : voa6.i
LabSampID : VSTD000.25

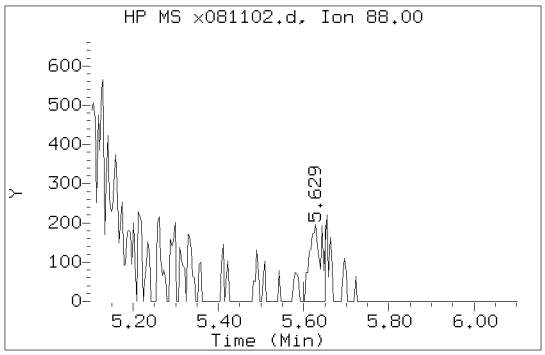
1,4-Dioxane ()

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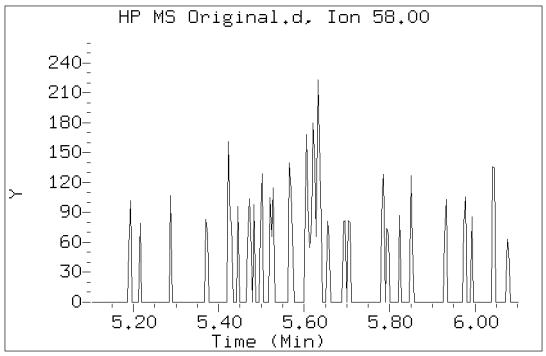
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HEIGHT
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12-Aug-2023
22:49



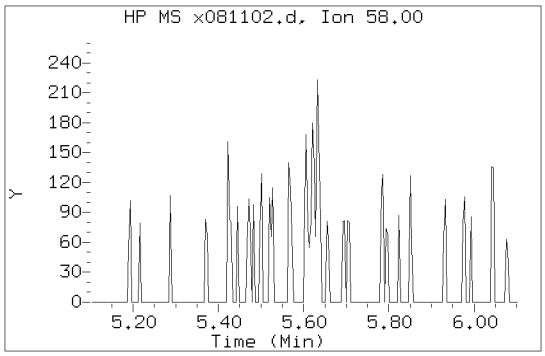
AFTER
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12-Aug-2023
22:49



BEFORE
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AREA
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HEIGHT
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12-Aug-2023
22:49



AFTER
MASS
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AREA
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HEIGHT
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12-Aug-2023
22:49



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081103.D Page 1
Report Date: 23-Aug-2023 11:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081103.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 11-AUG-2023 12:14
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 12:14 Cal File: X081103.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	606565	50.0000	
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	3407	0.50000	1.27(M)
3 Chloromethane	50	1.085	1.085	(0.260)	3482	0.50000	0.58(M)
4 Propionitrile	54	3.720	3.720	(0.890)	4117	5.00000	4.87(aM)
5 Vinyl Chloride	62	1.145	1.145	(0.274)	4404	0.50000	0.60(M)
6 Bromomethane	94	1.344	1.344	(0.321)	2137	0.50000	0.54(M)
7 Chloroethane	64	1.411	1.411	(0.338)	2768	0.50000	0.58(M)
8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	6710	0.50000	0.64(M)
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	3414	0.50000	0.58(M)
12 Isobutyl Alcohol	43	4.699	4.699	(1.124)	10205	10.0000	10.73(aM)
13 Acetonitrile	39	2.202	2.202	(0.527)	4428	5.00000	4.73(aM)
14 Allyl Chloride	41	2.202	2.202	(0.527)	10300	0.50000	0.55(aM)
15 Iodomethane	142	2.037	2.037	(0.487)	2898	1.00000	5.96(T)
16 Acrylonitrile	53	2.551	2.551	(0.610)	3027	1.00000	1.07(M)
17 Methylene Chloride	84	2.303	2.303	(0.551)	3889	0.50000	0.52(M)
18 Methyl tert-butyl ether	73	2.543	2.543	(0.608)	11988	0.50000	0.57
19 Carbon Disulfide	76	2.078	2.078	(0.497)	18059	1.00000	1.03(M)
20 trans-1,2-Dichloroethene	96	2.539	2.539	(0.607)	3848	0.50000	0.56(M)
21 Vinyl Acetate	43	3.019	3.019	(0.722)	22253	1.00000	1.10(M)
22 1,1-Dichloroethane	63	2.926	2.926	(0.700)	7346	0.50000	0.57(M)
23 Chloroprene	53	1.782	1.782	(0.426)	1459	0.50000	0.56(aM)

24 2-Butanone	43	3.702	3.702 (0.885)	2017	1.00000	0.89(aM)
25 Methacrylonitrile	41	3.878	3.878 (0.927)	3257	0.50000	0.53(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	4612	0.50000	0.51(M)
27	cis-1,2-Dichloroethene	96	3.537	3.537	(0.846)	3574	0.50000	0.54(M)
28	Chloroform	83	3.908	3.908	(0.935)	5756	0.50000	0.51(M)
29	Bromochloromethane	128	3.803	3.803	(0.909)	1872	0.50000	0.50(M)
31	1,1,1-Trichloroethane	97	4.088	4.088	(0.978)	4852	0.50000	0.53(M)
32	1,1-Dichloropropene	75	4.290	4.290	(0.864)	4132	0.50000	0.56(MH)
33	1,2-Dichloroethane	62	4.575	4.575	(0.921)	4942	0.50000	0.55(M)
34	Carbon Tetrachloride	117	4.268	4.268	(0.860)	4492	0.50000	0.57(MH)
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	936474	50.0000	
37	Benzene	78	4.523	4.523	(0.911)	12962	0.50000	0.56(M)
38	Trichloroethene	130	5.212	5.212	(1.050)	3802	0.50000	0.57(aM)
39	Bromodichloromethane	83	5.726	5.726	(1.153)	5036	0.50000	0.58(aM)
40	Methyl Methacrylate	41	5.640	5.640	(1.349)	2840	0.50000	0.50(a)
41	2-Chloroethylvinyl ether	63	6.078	6.078	(1.224)	2443	1.00000	1.11(aM)
42	1,2-Dichloropropane	63	5.441	5.441	(1.096)	3864	0.50000	0.59(aM)
43	2-Nitropropane	43	5.981	5.981	(1.430)	1190	0.50000	0.53(a)
44	Dibromomethane	93	5.565	5.565	(1.121)	2538	0.50000	0.57(a)
45	4-Methyl-2-Pentanone	43	6.352	6.352	(0.828)	6765	1.00000	1.03(aM)
46	cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	5702	0.50000	0.58(aM)
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	907144	50.0000	
$ 48	Toluene-d8	98	6.397	6.397	(0.834)	14098	0.50000	0.66(aM)
49	Ethyl Methacrylate	69	6.805	6.805	(1.371)	4461	0.50000	0.51(aH)
50	Toluene	91	6.457	6.457	(0.842)	14402	0.50000	0.56(aM)
51	trans-1,3-Dichloropropene	75	6.704	6.704	(1.350)	4833	0.50000	0.58(aM)
52	2-Hexanone	43	7.139	7.139	(0.931)	4310	1.00000	0.98(a)
53	1,1,2-Trichloroethane	83	6.847	6.847	(0.893)	2765	0.50000	0.54(aM)
54	1,3-Dichloropropane	76	6.989	6.989	(0.912)	5853	0.50000	0.56(a)
55	Dibromochloromethane	129	7.177	7.177	(0.936)	3861	0.50000	0.53(aM)
56	Tetrachloroethene	164	6.929	6.929	(0.904)	2916	0.50000	0.55(aM)
57	1,2-Dibromoethane	107	7.270	7.270	(0.948)	3314	0.50000	0.53(aM)
58	1-Chlorohexane	55	7.698	7.698	(1.550)	2827	0.50000	0.52(aMH)
59	Chlorobenzene	112	7.694	7.694	(1.003)	10027	0.50000	0.57(aM)
60	1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	3665	0.50000	0.54(aM)
61	Ethylbenzene	106	7.806	7.806	(1.018)	4890	0.50000	0.56(aM)
62	m,p-Xylenes	106	7.911	7.911	(1.032)	12402	1.00000	1.12(aM)
63	o-Xylene	106	8.245	8.245	(1.075)	5910	0.50000	0.54(aM)
64	Styrene	104	8.286	8.286	(1.081)	9494	0.50000	0.52(aM)
66	Bromoform	173	8.421	8.421	(1.098)	2332	0.50000	0.47(TaM)
67	Isopropylbenzene	105	8.564	8.564	(1.117)	16385	0.50000	0.60(aM)
68	1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	4493	0.50000	0.57(aM)
$ 69	4-Bromofluorobenzene	95	8.699	8.699	(1.134)	8224	0.50000	1.19(aM)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	483591	50.0000	
71	1,2,3-Trichloropropane	75	8.878	8.878	(0.919)	3166	0.50000	0.54(aM)
72	trans-1,4-Dichloro-2-butene	53	8.950	8.950	(1.167)	1260	0.50000	0.55(aM)
73	n-Propylbenzene	91	8.923	8.923	(0.924)	17092	0.50000	0.59(aM)
74	Bromobenzene	156	8.818	8.818	(0.913)	4612	0.50000	0.59(aM)
75	1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	12006	0.50000	0.57(aM)
76	2-Chlorotoluene	91	8.983	8.983	(0.930)	10667	0.50000	0.58(aM)
77	4-Chlorotoluene	91	9.088	9.088	(0.941)	10970	0.50000	0.52(aM)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	10385	0.50000	0.57(aM)
79	1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	12812	0.50000	0.59(aM)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	13358	0.50000	0.54(aM)

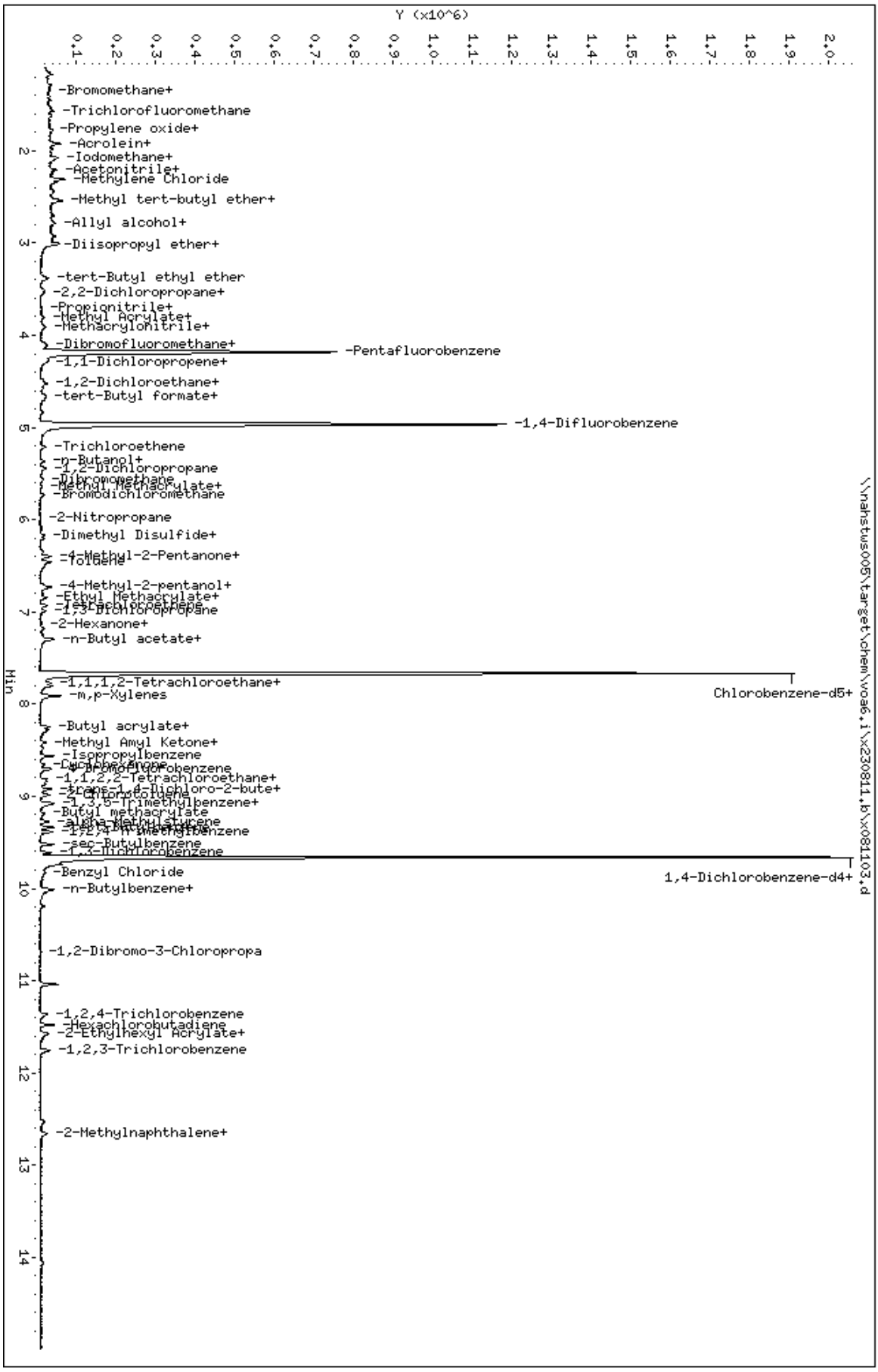
82 p-Isopropyltoluene	119	9.651	9.651 (0.999)	13394	0.50000	0.60(aM)
83 1,3-Dichlorobenzene	146	9.609	9.609 (0.995)	7795	0.50000	0.56(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	8042	0.50000	0.54(aM)
86	Benzyl Chloride	91	9.831	9.831	(1.282)	6104	0.50000	0.47(aM)
87	n-Butylbenzene	91	10.011	10.011	(1.036)	10518	0.50000	2.48(aM)
88	1,2-Dichlorobenzene	146	10.007	10.007	(1.036)	7410	0.50000	0.53(aM)
89	1,2-Dibromo-3-Chloropropane	155	10.689	10.689	(1.106)	676	0.50000	0.50(aM)
90	1,2,4-Trichlorobenzene	180	11.368	11.368	(1.177)	4663	0.50000	0.50(aM)
92	Naphthalene	128	11.585	11.585	(1.199)	12804	0.50000	0.55(aM)
93	1,2,3-Trichlorobenzene	180	11.754	11.754	(1.216)	5452	0.50000	0.60(aM)
146	Methyl acetate	43	2.243	2.243	(0.537)	3113	0.50000	0.57(aM)
138	Freon TF	101	1.921	1.921	(0.459)	3204	0.50000	1.68(aM)
141	Cyclohexane	56	4.129	4.129	(0.987)	4440	0.50000	2.36(aMH)
142	Tetrahydrofuran	42	3.889	3.889	(0.930)	1419	1.00000	1.19(aM)
147	Methylcyclohexane	55	5.373	5.373	(1.082)	7626	0.50000	0.54(aM)
135	1,4-Dioxane	88	5.617	5.617	(1.343)	825	10.0000	10.70(aM)
132	n-Butanol	56	5.370	5.370	(1.284)	1373	10.0000	75.88(aM)
131	Methyl Acrylate	55	3.780	3.780	(0.904)	3259	0.50000	0.54(aM)
133	Ethyl Acrylate	55	5.373	5.373	(1.285)	7657	0.50000	0.53(aM)
136	n-Hexane	57	2.779	2.779	(0.665)	4056	0.50000	(aM)
139	Diethyl ether	59	1.767	1.767	(0.423)	2930	0.50000	0.54(aM)
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	5543	10.0000	0.29(aM)
156	Diisopropyl ether	45	3.012	3.012	(0.720)	12268	0.50000	0.56(TaM)
166	1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	12507	0.50000	0.55(a)
167	Ethanol	45	1.719	1.719	(0.411)	1086	10.0000	(aM)
172	tert-Butyl formate	59	4.639	4.639	(1.109)	7073	1.00000	1.16(a)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	14697	0.50000	0.57(a)
175	tert-Butyl ethyl ether	59	3.387	3.387	(0.810)	11226	0.50000	0.56(aM)
176	tert-Amyl alcohol	59	4.639	4.639	(1.109)	7073	10.0000	11.69
151	4-Methyl-2-pentanol	45	6.734	6.734	(1.356)	21748	10.0000	11.69
180	1-Methylnaphthalene	142	12.665	12.665	(1.311)	9184	0.50000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	3838	0.50000	0.61(aM)
159	Propylene oxide	43	1.809	1.809	(0.433)	1433	1.00000	1.46(a)
162	Butyl acrylate	55	8.286	8.286	(1.081)	7408	0.50000	0.50(aM)
163	Butyl methacrylate	41	9.182	9.182	(0.950)	5695	0.50000	0.58(aM)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	16221	0.50000	0.54(aM)
182	Epichlorohydrin	57	6.123	6.123	(1.233)	1253	2.00000	2.18(aM)
M 94	1,2-Dichloroethylene (total)	96				7422	1.00000	1.11(a)
M 95	Xylenes (total)	106				18312	1.50000	1.67(a)
130	Ethyl Acetate	43	3.717	3.717	(0.889)	3740	0.50000	0.53(aM)
134	Cyclohexanone	55	8.657	8.657	(0.896)	3494	10.0000	11.34(aM)
185	Isoprene	39	1.790	1.790	(0.428)	2306	0.50000	0.91(a)
188	Isopropyl acetate	43	4.699	4.699	(0.946)	11001	0.50000	0.58(aM)
189	n-Butyl acetate	43	7.237	7.237	(0.944)	5274	0.50000	0.50(aM)
150	Allyl alcohol	57	2.779	2.779	(0.665)	4860	10.0000	0.28(a)
195	Methyl Amyl Ketone	43	8.429	8.429	(1.099)	6951	0.50000	0.44(a)
200	Dimethyl Disulfide	94	6.209	6.209	(0.810)	5435	0.50000	0.45(a)
205	2-Ethylhexyl Acrylate	55	11.562	11.562	(1.197)	5026	0.50000	0.50(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
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Sample Info: VSTD000.5;VSTD000.5;1;2;
Purge Volume: 5.0
Column phase: DB624

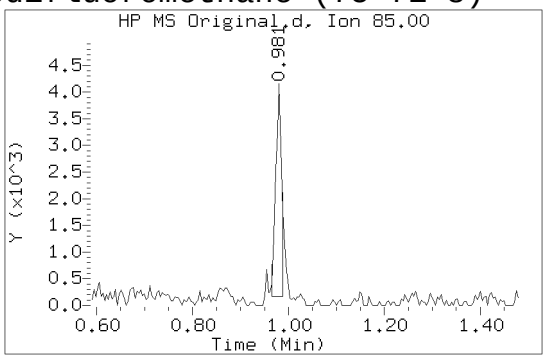
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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InstruID : voa6.i
LabSampID : VSTD000.5

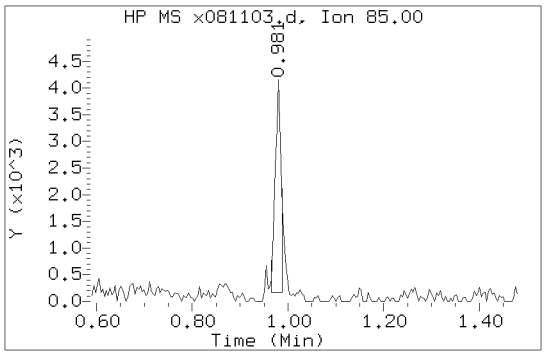
Dichlorodifluoromethane (75-71-8)

Reason Code:

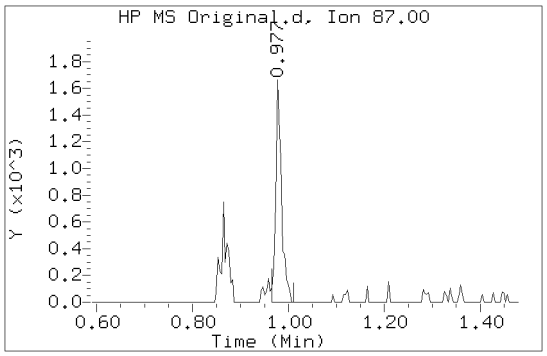
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AREA
7422
HEIGHT
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12-Aug-2023
22:44



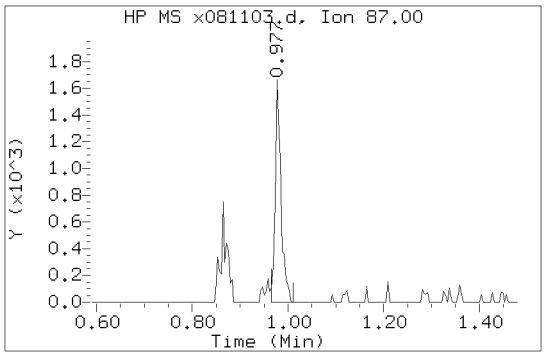
AFTER
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HEIGHT
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23-Aug-2023
11:12



BEFORE
MASS
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AREA
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HEIGHT
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12-Aug-2023
22:44



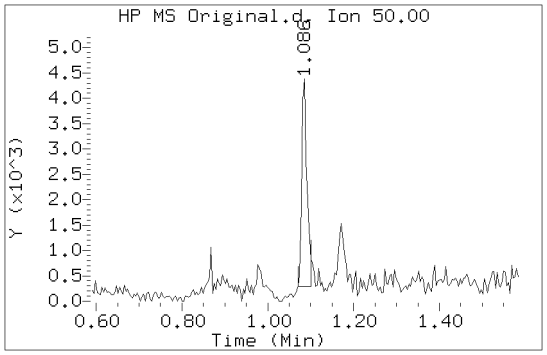
AFTER
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AREA
1433
HEIGHT
1663
23-Aug-2023
11:12



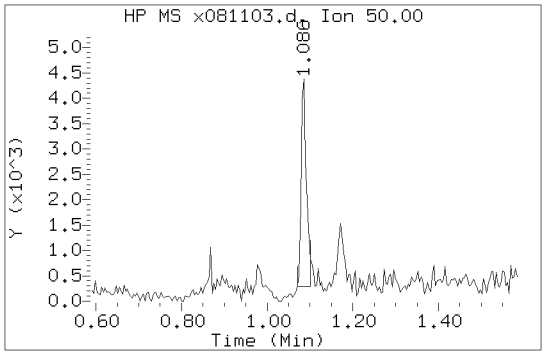
Chloromethane (74-87-3)

Reason Code:

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AREA
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HEIGHT
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12-Aug-2023
22:44



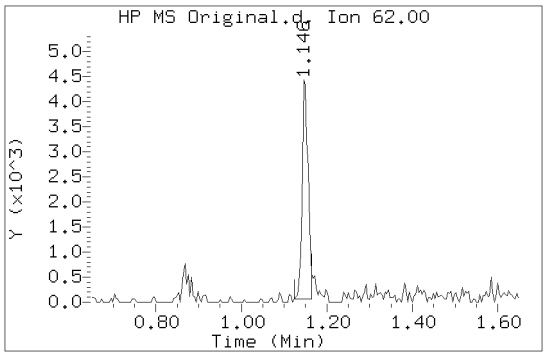
AFTER
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AREA
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HEIGHT
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23-Aug-2023
11:12



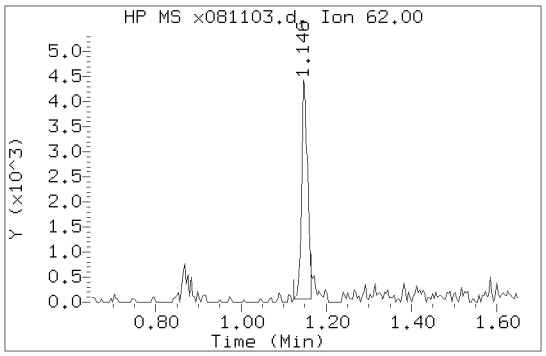
Vinyl Chloride (75-01-4)

Reason Code:

BEFORE
MASS
85
AREA
3407
HEIGHT
3983
12-Aug-2023
22:44



AFTER
MASS
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AREA
4404
HEIGHT
4375
23-Aug-2023
11:12



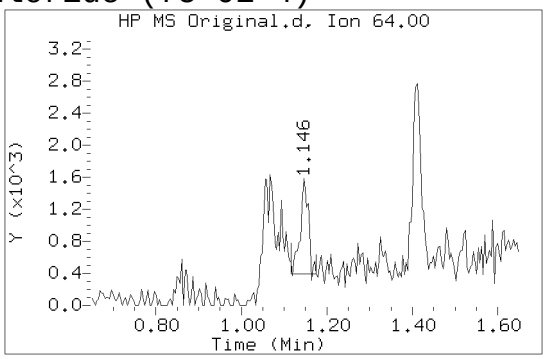
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InstruID : voa6.i
LabSampID : VSTD000.5

Vinyl Chloride (75-01-4)

Reason Code:

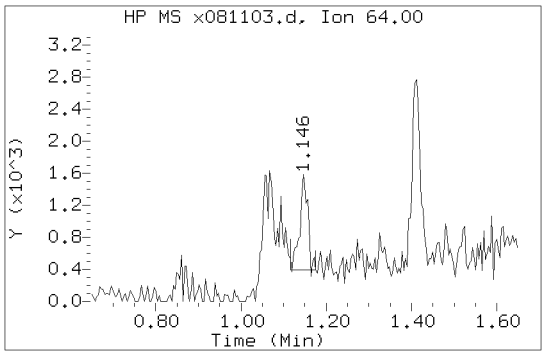
BEFORE

MASS
87
AREA
1433
HEIGHT
1663
12-Aug-2023
22:44



AFTER

MASS
64
AREA
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HEIGHT
1196
23-Aug-2023
11:12

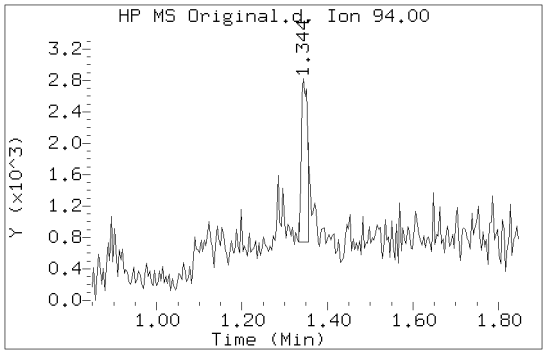


Bromomethane (74-83-9)

Reason Code:

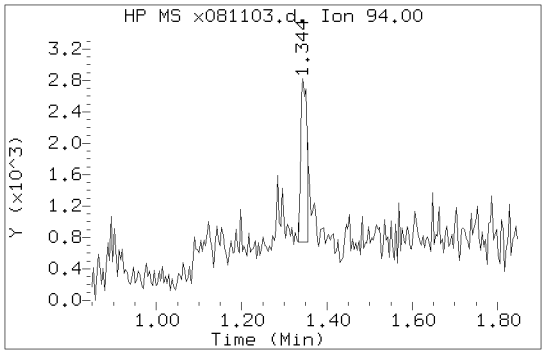
BEFORE

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HEIGHT
4097
12-Aug-2023
22:44



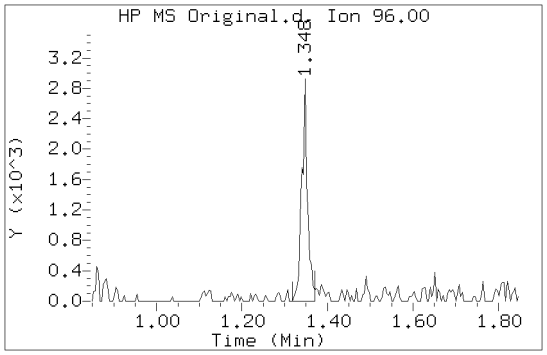
AFTER

MASS
94
AREA
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HEIGHT
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23-Aug-2023
11:12



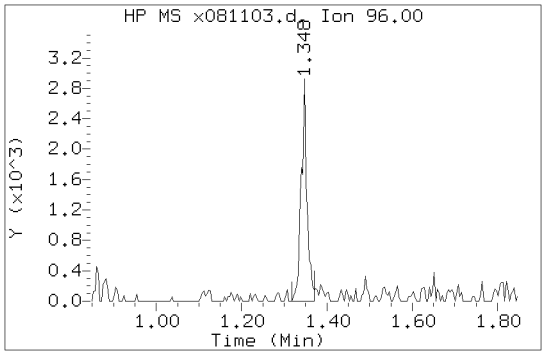
BEFORE

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AFTER

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23-Aug-2023
11:12

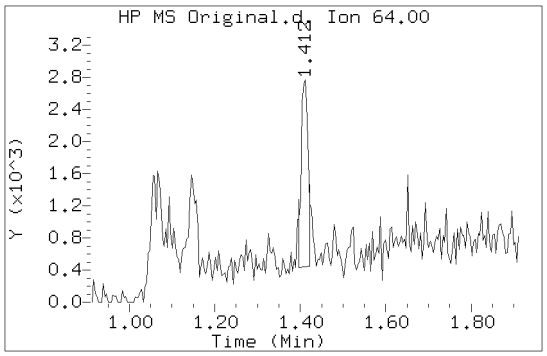


Chloroethane (75-00-3)

Reason Code:

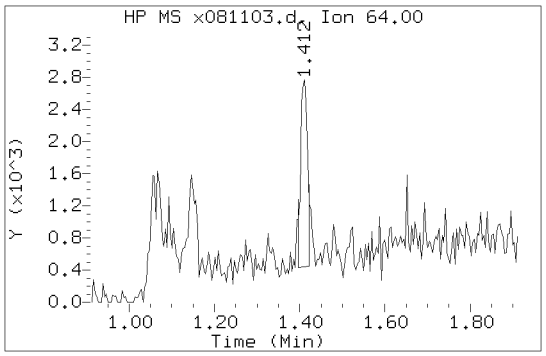
BEFORE

MASS
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AREA
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HEIGHT
4375
12-Aug-2023
22:44



AFTER

MASS
64
AREA
2768
HEIGHT
2330
23-Aug-2023
11:12

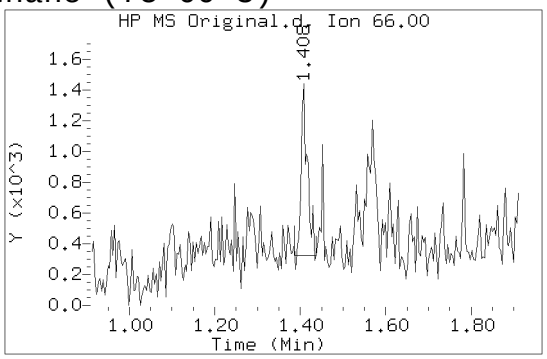


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroethane (75-00-3)

BEFORE

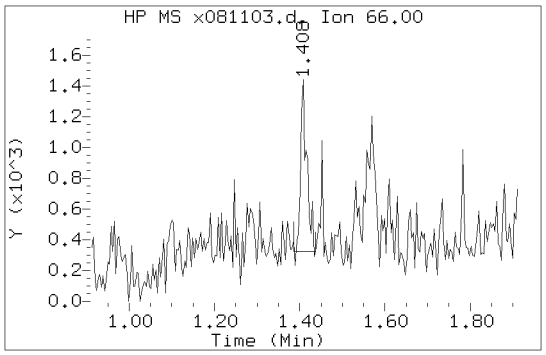
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HEIGHT
1196
12-Aug-2023
22:44



Reason Code:

AFTER

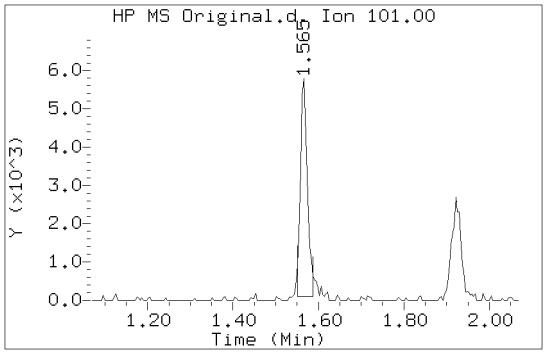
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HEIGHT
1114
23-Aug-2023
11:12



Trichlorofluoromethane (75-69-4)

BEFORE

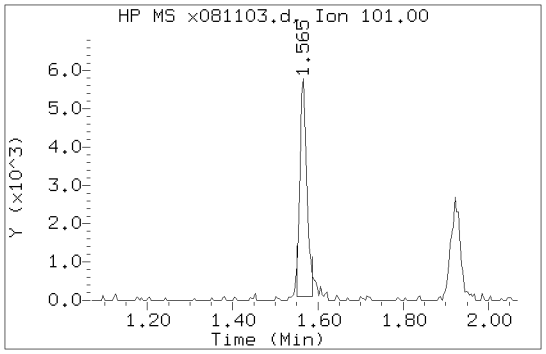
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22:44



Reason Code:

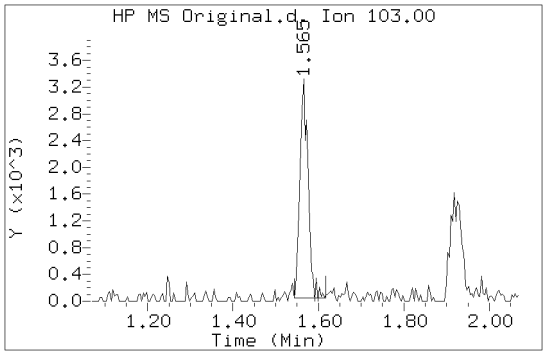
AFTER

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23-Aug-2023
11:12



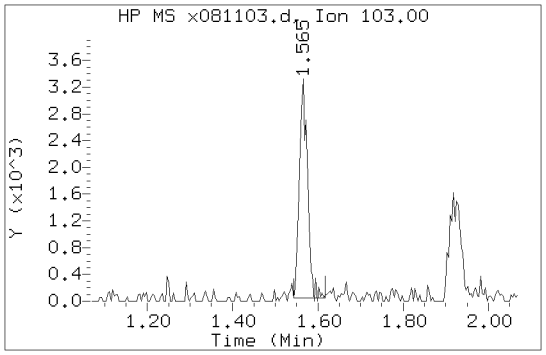
BEFORE

MASS
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HEIGHT
2924
12-Aug-2023
22:44



AFTER

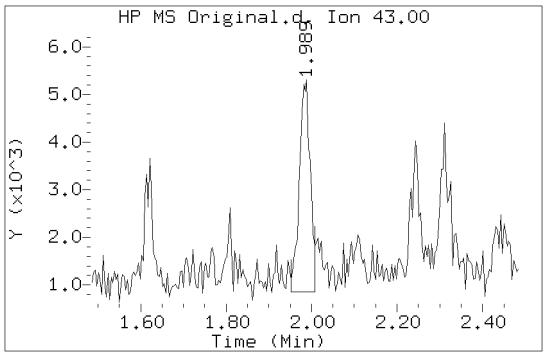
MASS
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HEIGHT
3270
23-Aug-2023
11:12



Acetone (67-64-1)

BEFORE

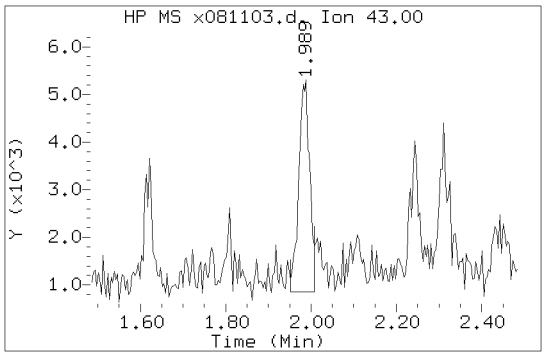
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2330
12-Aug-2023
22:44



Reason Code:

AFTER

MASS
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AREA
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HEIGHT
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23-Aug-2023
11:12



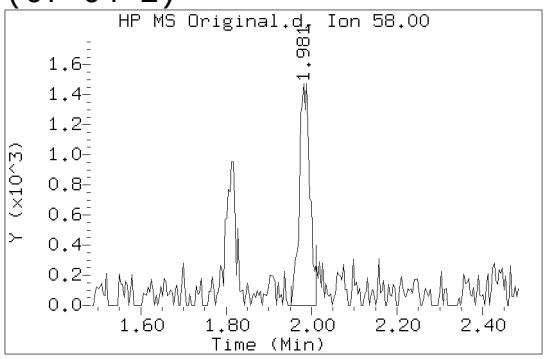
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InstruID : voa6.i
LabSampID : VSTD000.5

Acetone (67-64-1)

Reason Code:

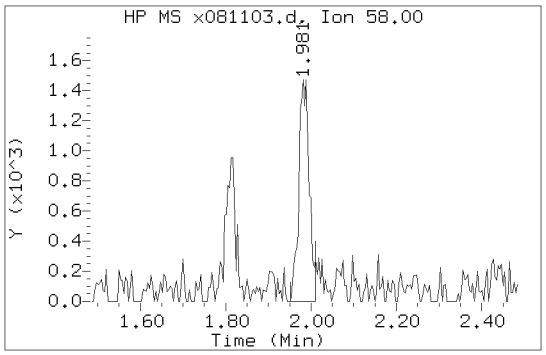
BEFORE

MASS
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12-Aug-2023
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AFTER

MASS
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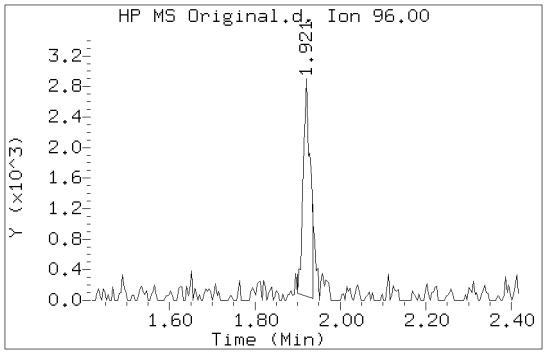


1,1-Dichloroethene (75-35-4)

Reason Code:

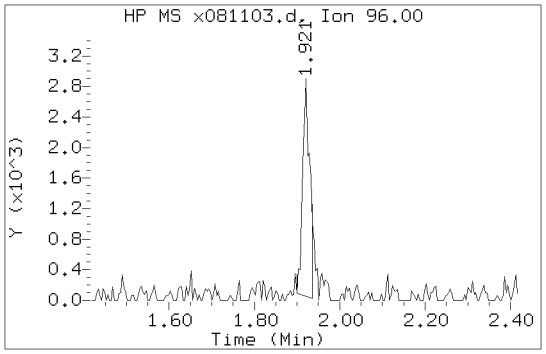
BEFORE

MASS
101
AREA
6710
HEIGHT
5688
12-Aug-2023
22:44



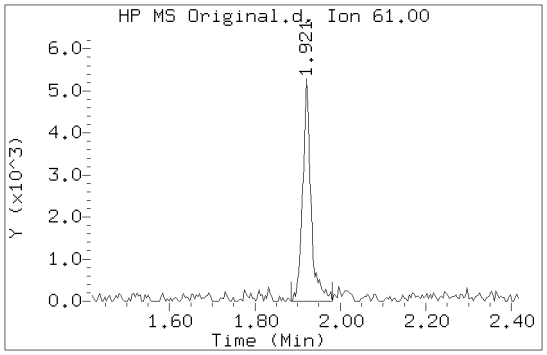
AFTER

MASS
96
AREA
3414
HEIGHT
2850
23-Aug-2023
11:12



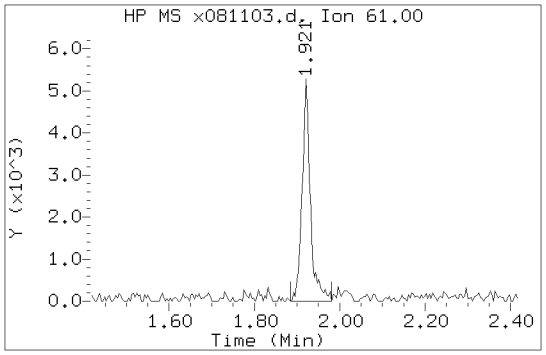
BEFORE

MASS
103
AREA
4414
HEIGHT
3270
12-Aug-2023
22:44



AFTER

MASS
61
AREA
7312
HEIGHT
5285
23-Aug-2023
11:12

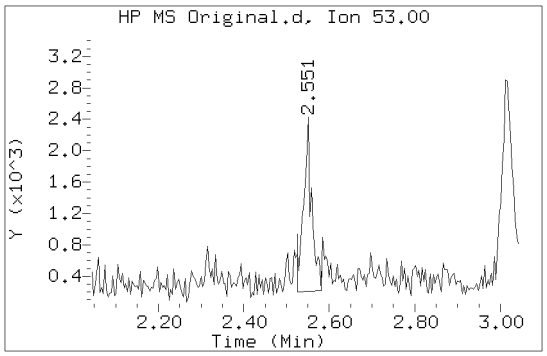


Acrylonitrile (107-13-1)

Reason Code:

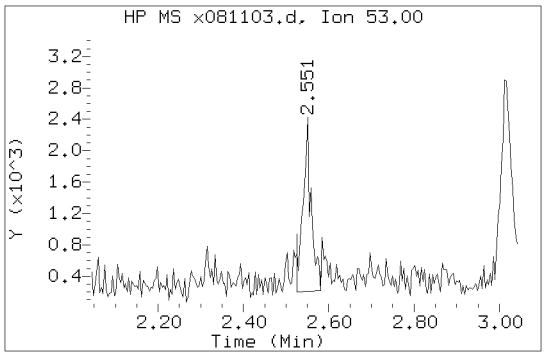
BEFORE

MASS
43
AREA
8080
HEIGHT
4452
12-Aug-2023
22:44



AFTER

MASS
53
AREA
3027
HEIGHT
2218
23-Aug-2023
11:12

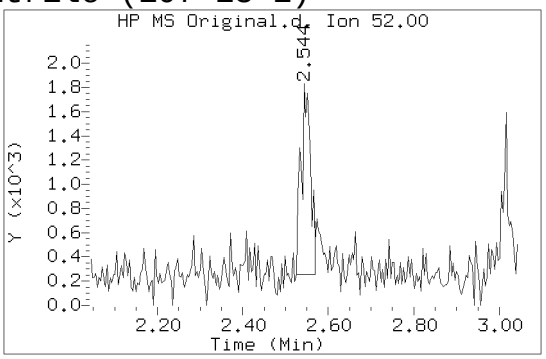


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

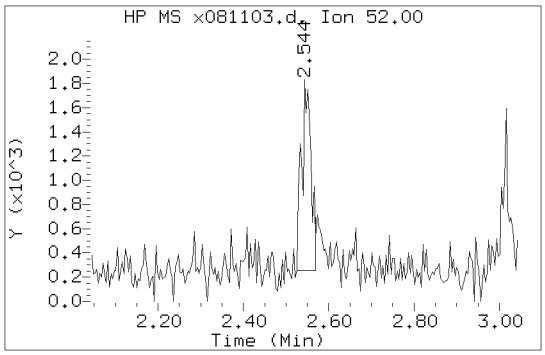
Acrylonitrile (107-13-1)

Reason Code:

BEFORE
MASS
58
AREA
2589
HEIGHT
1473
12-Aug-2023
22:44



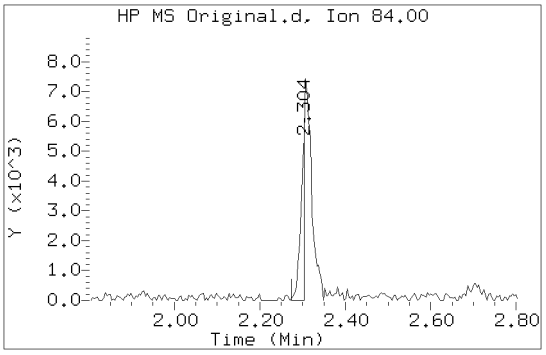
AFTER
MASS
52
AREA
2521
HEIGHT
1577
23-Aug-2023
11:12



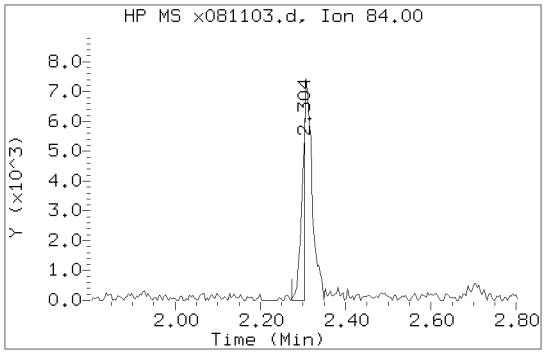
Methylene Chloride (75-09-2)

Reason Code:

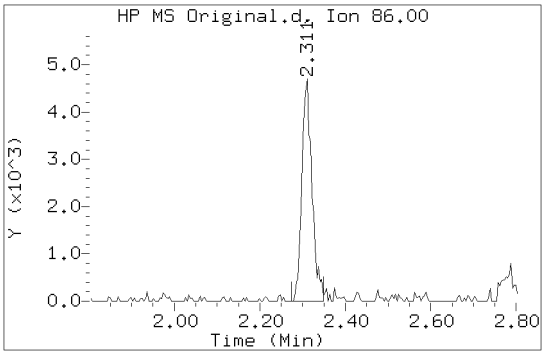
BEFORE
MASS
96
AREA
3414
HEIGHT
2850
12-Aug-2023
22:44



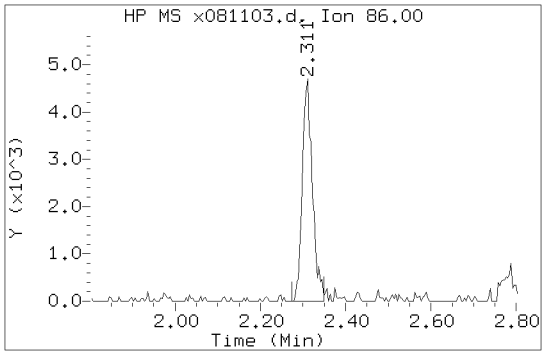
AFTER
MASS
84
AREA
3889
HEIGHT
5468
23-Aug-2023
11:12



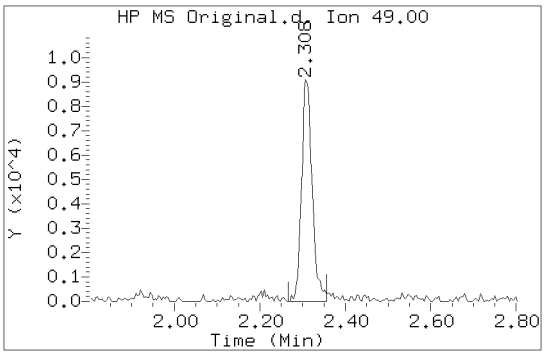
BEFORE
MASS
61
AREA
7312
HEIGHT
5285
12-Aug-2023
22:44



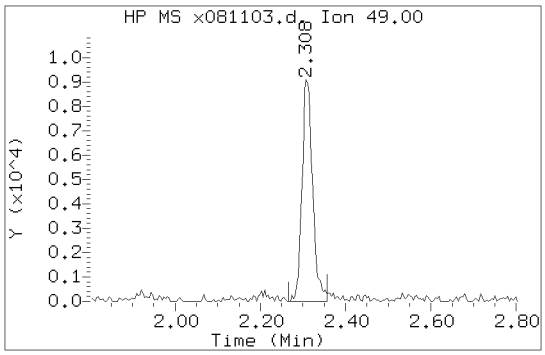
AFTER
MASS
86
AREA
7903
HEIGHT
4700
23-Aug-2023
11:12



BEFORE
MASS
63
AREA
3064
HEIGHT
2093
12-Aug-2023
22:44



AFTER
MASS
49
AREA
16117
HEIGHT
9091
23-Aug-2023
11:12

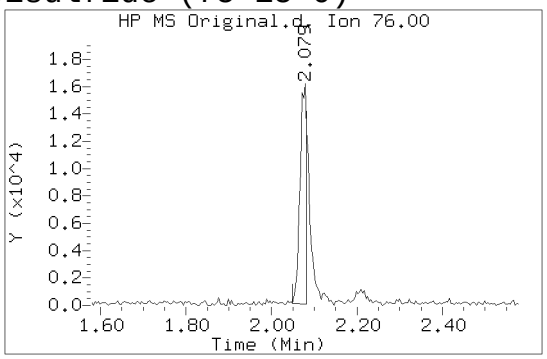


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

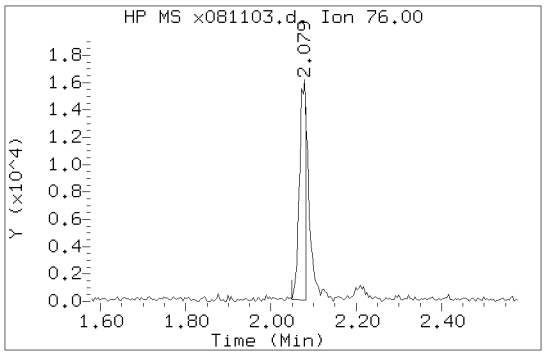
Carbon Disulfide (75-15-0)

Reason Code:

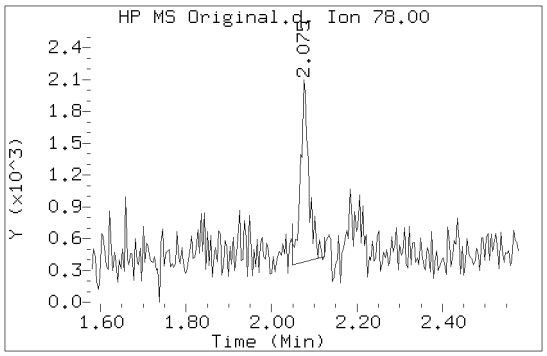
BEFORE
MASS
53
AREA
3027
HEIGHT
2218
12-Aug-2023
22:44



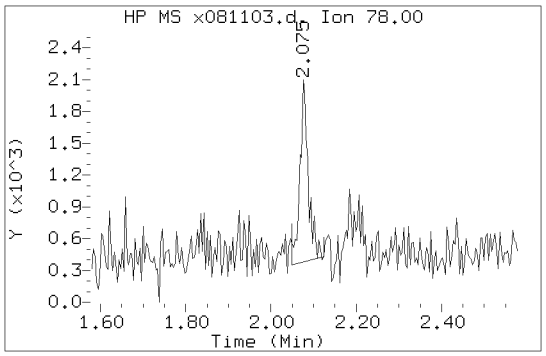
AFTER
MASS
76
AREA
18059
HEIGHT
16106
23-Aug-2023
11:12



BEFORE
MASS
52
AREA
2521
HEIGHT
1577
12-Aug-2023
22:44



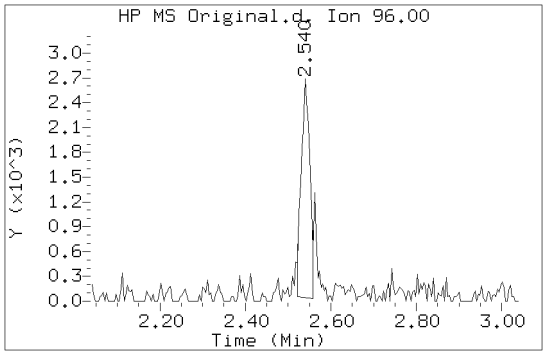
AFTER
MASS
78
AREA
2390
HEIGHT
1716
23-Aug-2023
11:12



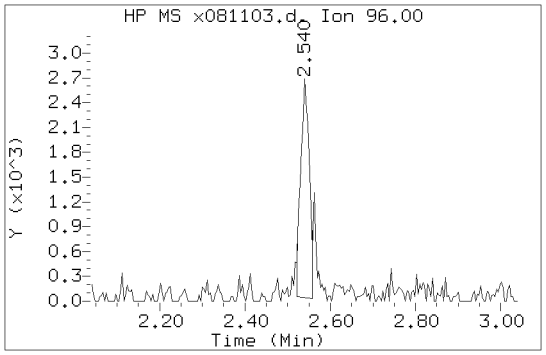
trans-1,2-Dichloroethene (156-60-5)

Reason Code:

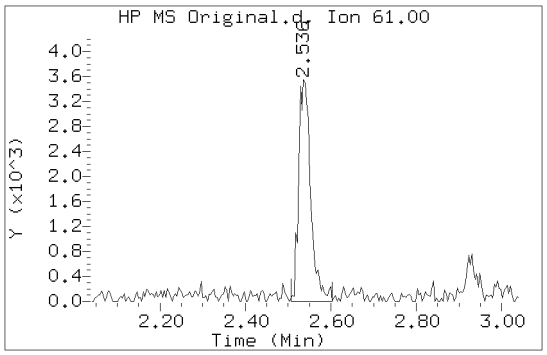
BEFORE
MASS
84
AREA
3889
HEIGHT
5468
12-Aug-2023
22:44



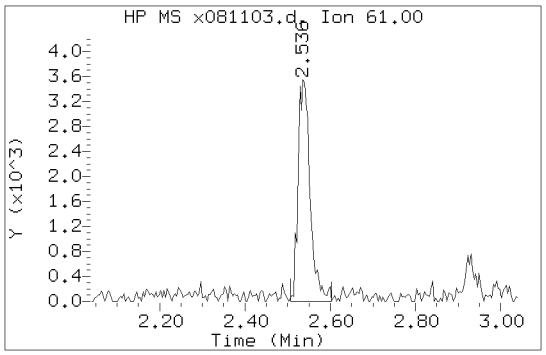
AFTER
MASS
96
AREA
3848
HEIGHT
2643
23-Aug-2023
11:12



BEFORE
MASS
86
AREA
7903
HEIGHT
4700
12-Aug-2023
22:44



AFTER
MASS
61
AREA
7075
HEIGHT
3548
23-Aug-2023
11:12



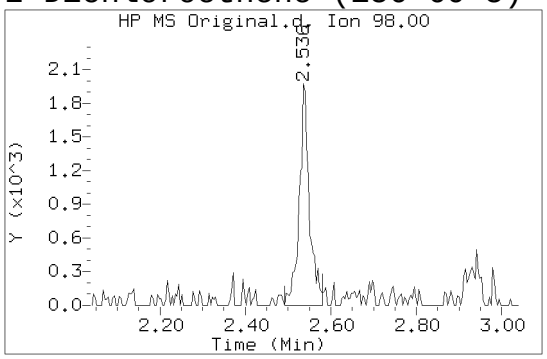
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

trans-1,2-Dichloroethene (156-60-5)

Reason Code:

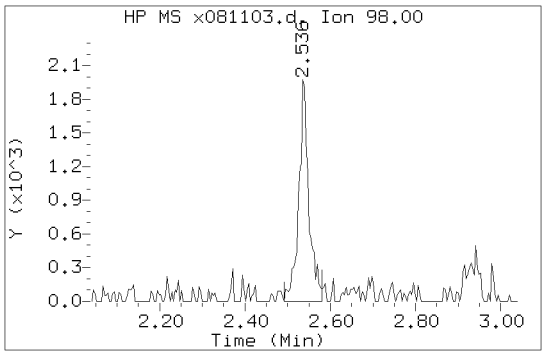
BEFORE

MASS
49
AREA
16117
HEIGHT
9091
12-Aug-2023
22:44



AFTER

MASS
98
AREA
3286
HEIGHT
1974
23-Aug-2023
11:12

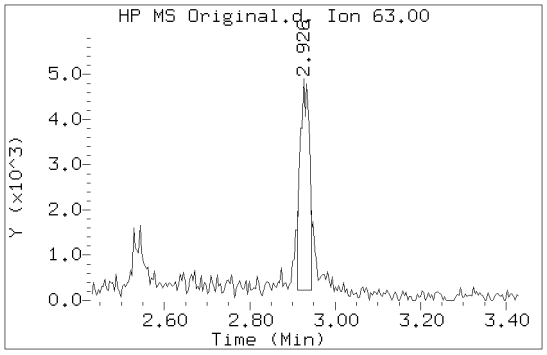


1,1-Dichloroethane (75-34-3)

Reason Code:

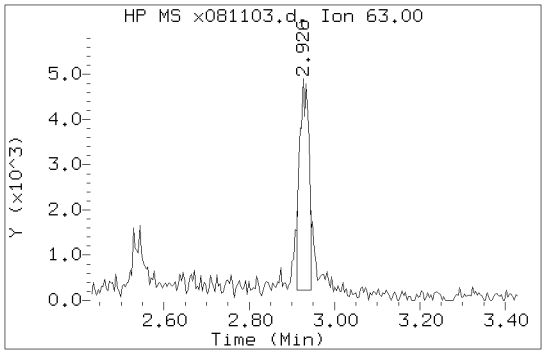
BEFORE

MASS
73
AREA
11988
HEIGHT
5726
12-Aug-2023
22:44



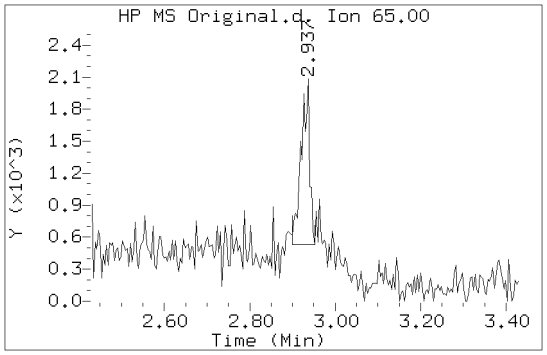
AFTER

MASS
63
AREA
7346
HEIGHT
4676
23-Aug-2023
11:12



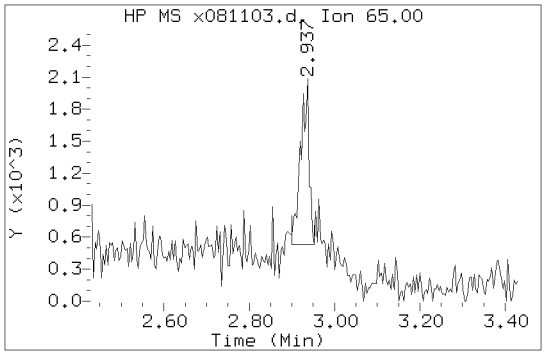
BEFORE

MASS
57
AREA
5770
HEIGHT
2619
12-Aug-2023
22:44



AFTER

MASS
65
AREA
2162
HEIGHT
1553
23-Aug-2023
11:12

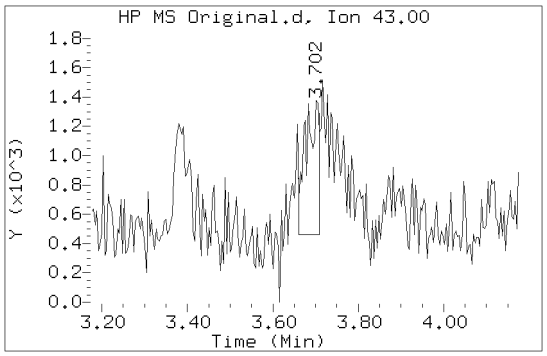


2-Butanone (78-93-3)

Reason Code:

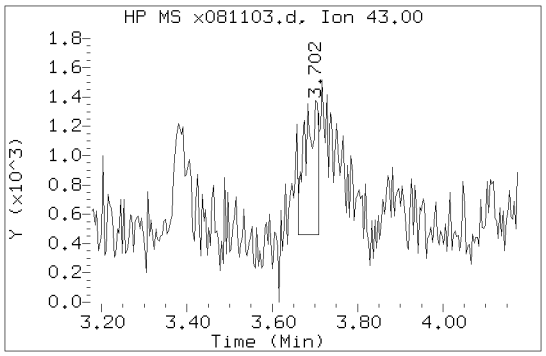
BEFORE

MASS
76
AREA
18059
HEIGHT
16106
12-Aug-2023
22:44



AFTER

MASS
43
AREA
2017
HEIGHT
919
23-Aug-2023
11:12



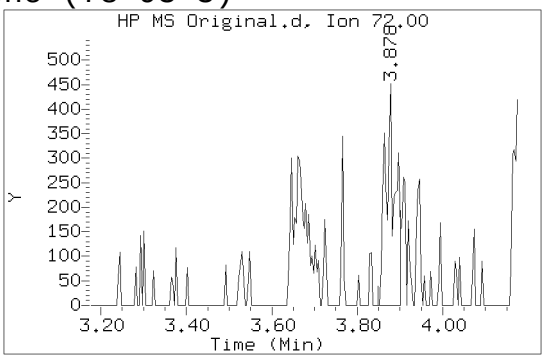
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InstruID : voa6.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)

Reason Code:

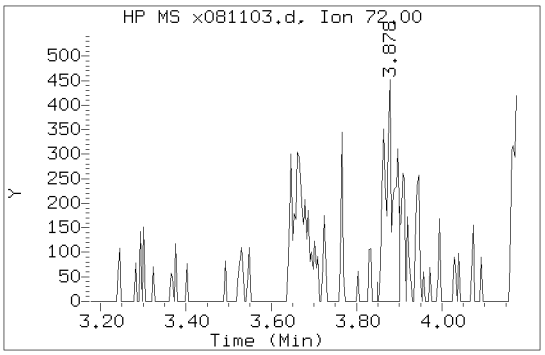
BEFORE

MASS
78
AREA
2390
HEIGHT
1716
12-Aug-2023
22:44



AFTER

MASS
72
AREA
703
HEIGHT
452
23-Aug-2023
11:12

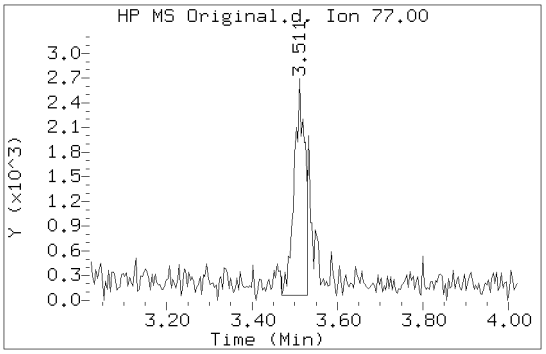


2,2-Dichloropropane (594-20-7)

Reason Code:

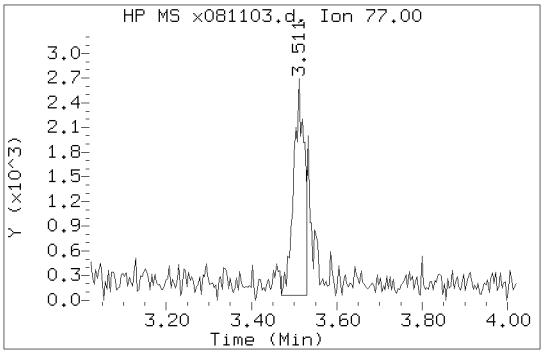
BEFORE

MASS
96
AREA
3848
HEIGHT
2643
12-Aug-2023
22:44



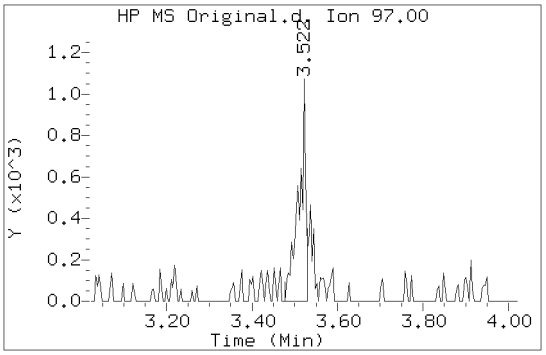
AFTER

MASS
77
AREA
4612
HEIGHT
2627
23-Aug-2023
11:12



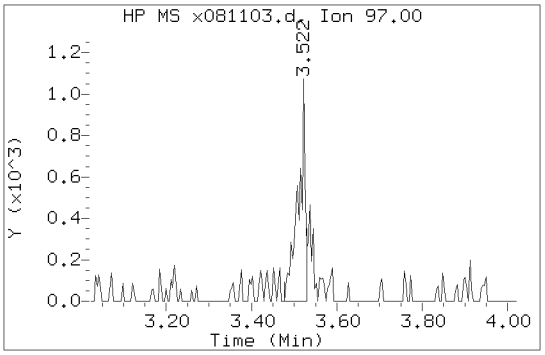
BEFORE

MASS
61
AREA
7075
HEIGHT
3548
12-Aug-2023
22:44



AFTER

MASS
97
AREA
1245
HEIGHT
1073
23-Aug-2023
11:12

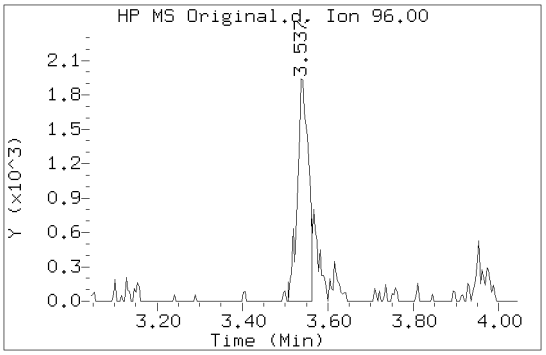


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

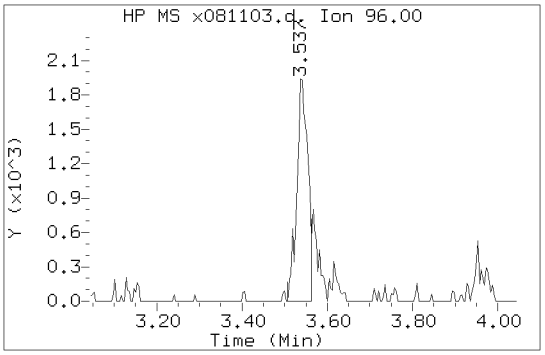
BEFORE

MASS
43
AREA
22253
HEIGHT
9580
12-Aug-2023
22:44



AFTER

MASS
96
AREA
3574
HEIGHT
1940
23-Aug-2023
11:12



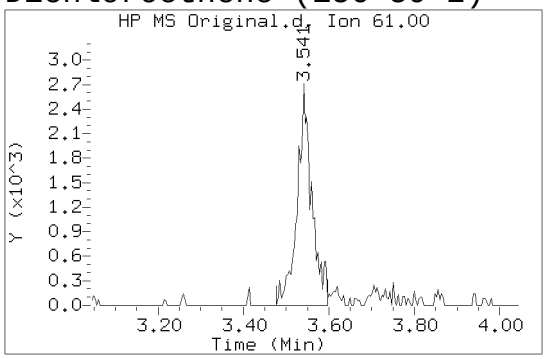
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InstruID : voa6.i
LabSampID : VSTD000.5

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

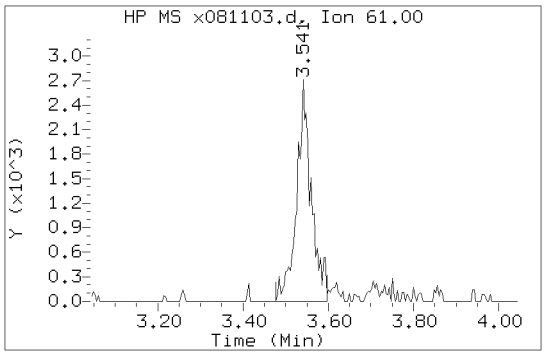
BEFORE

MASS
86
AREA
1808
HEIGHT
995
12-Aug-2023
22:44



AFTER

MASS
61
AREA
6484
HEIGHT
2712
23-Aug-2023
11:12

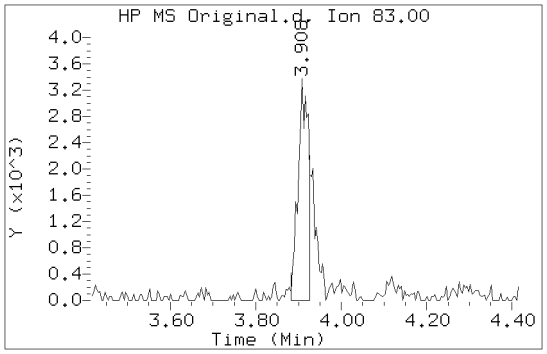


Chloroform (67-66-3)

Reason Code:

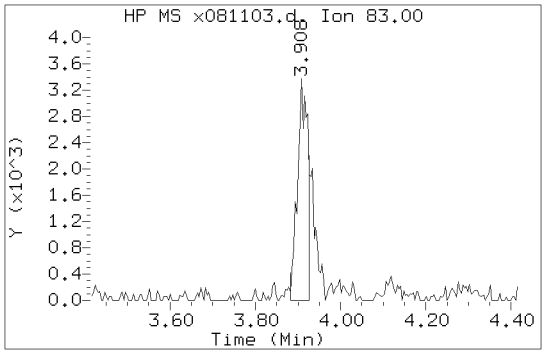
BEFORE

MASS
63
AREA
7346
HEIGHT
4676
12-Aug-2023
22:44



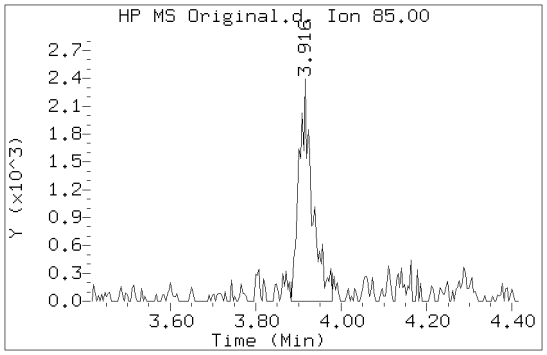
AFTER

MASS
83
AREA
5756
HEIGHT
3376
23-Aug-2023
11:12



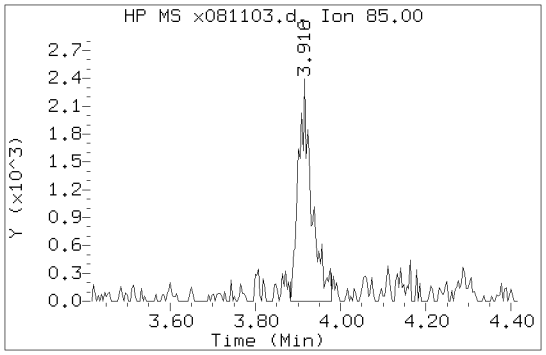
BEFORE

MASS
65
AREA
2162
HEIGHT
1553
12-Aug-2023
22:44



AFTER

MASS
85
AREA
5228
HEIGHT
2394
23-Aug-2023
11:12

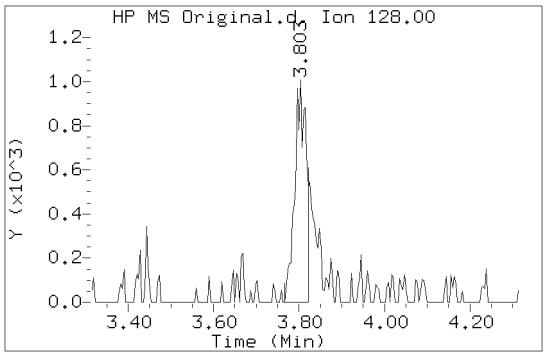


Bromochloromethane (74-97-5)

Reason Code:

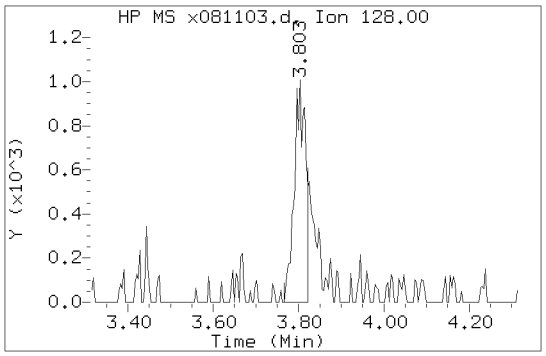
BEFORE

MASS
43
AREA
2017
HEIGHT
919
12-Aug-2023
22:44



AFTER

MASS
128
AREA
1872
HEIGHT
1008
23-Aug-2023
11:12

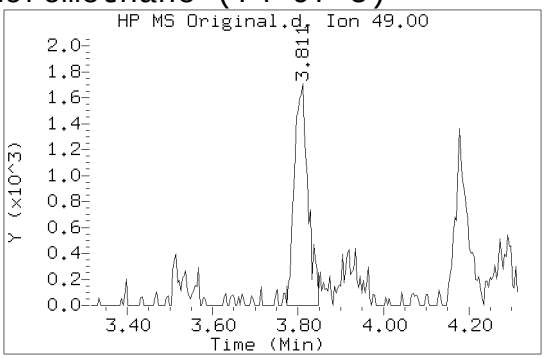


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Bromochloromethane (74-97-5)

BEFORE

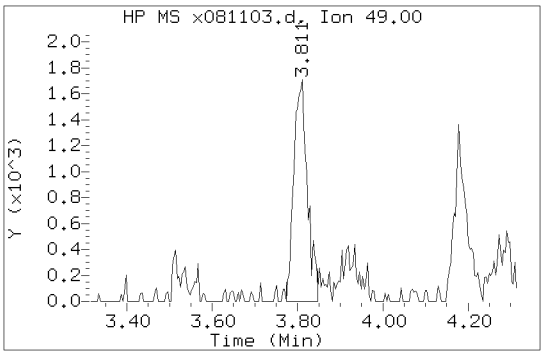
MASS
72
AREA
703
HEIGHT
452
12-Aug-2023
22:44



Reason Code:

AFTER

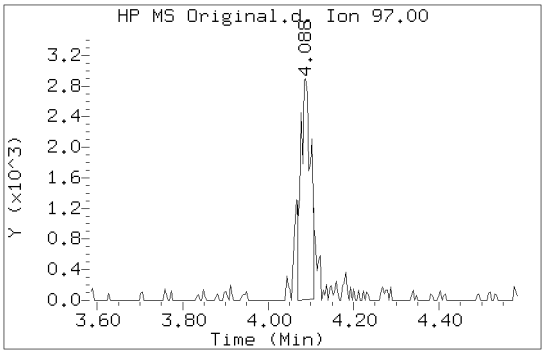
MASS
49
AREA
3815
HEIGHT
1708
23-Aug-2023
11:12



1,1,1-Trichloroethane (71-55-6)

BEFORE

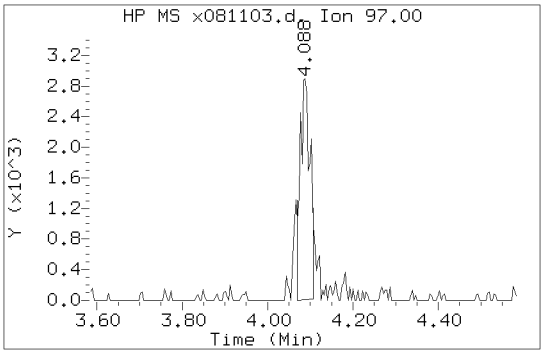
MASS
77
AREA
4612
HEIGHT
2627
12-Aug-2023
22:44



Reason Code:

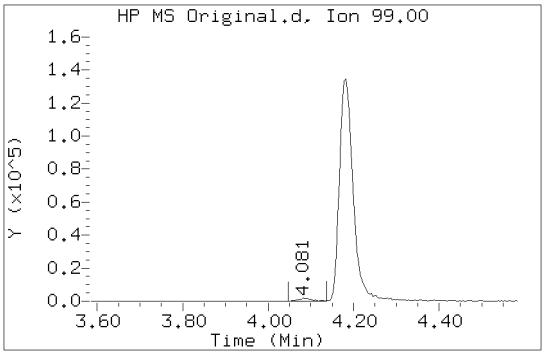
AFTER

MASS
97
AREA
4852
HEIGHT
2888
23-Aug-2023
11:12



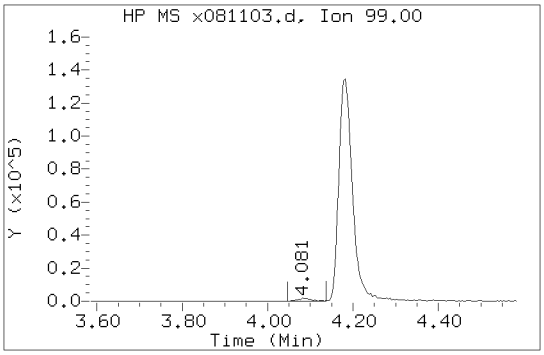
BEFORE

MASS
97
AREA
1245
HEIGHT
1073
12-Aug-2023
22:44



AFTER

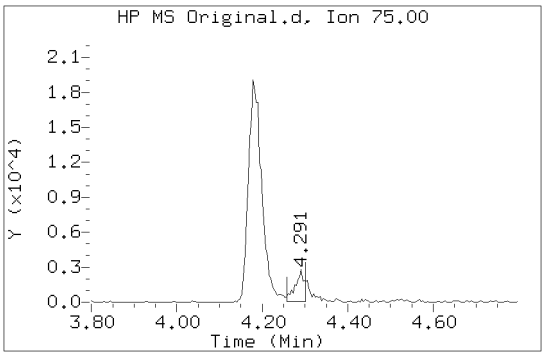
MASS
99
AREA
3886
HEIGHT
1872
23-Aug-2023
11:12



1,1-Dichloropropene (563-58-6)

BEFORE

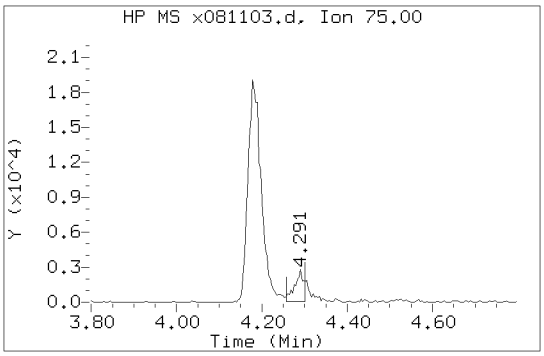
MASS
96
AREA
3574
HEIGHT
1940
12-Aug-2023
22:44



Reason Code:

AFTER

MASS
75
AREA
4132
HEIGHT
2765
23-Aug-2023
11:12

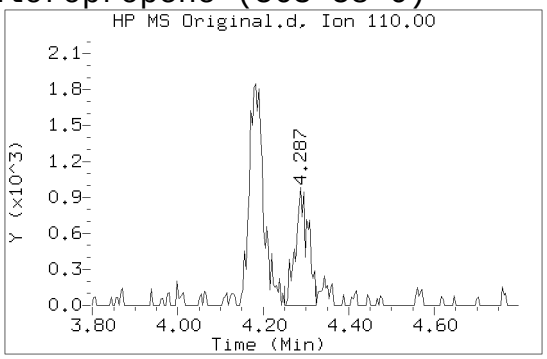


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InstruID : voa6.i
LabSampID : VSTD000.5

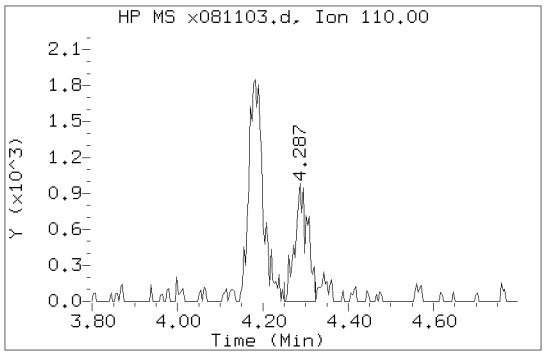
1,1-Dichloropropene (563-58-6)

Reason Code:

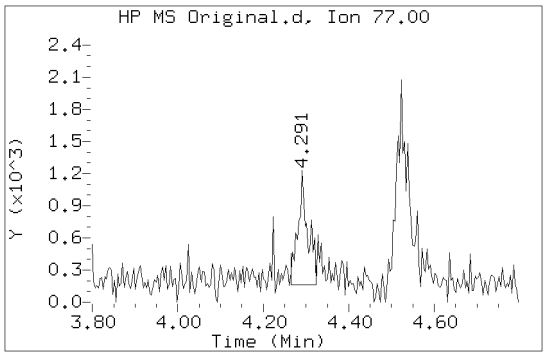
BEFORE
MASS
61
AREA
6484
HEIGHT
2712
12-Aug-2023
22:44



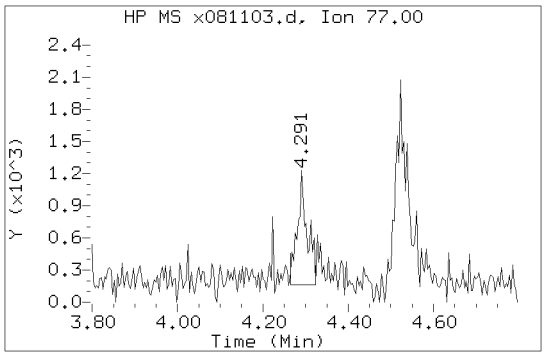
AFTER
MASS
110
AREA
2063
HEIGHT
982
23-Aug-2023
11:12



BEFORE
MASS
98
AREA
3005
HEIGHT
1467
12-Aug-2023
22:44



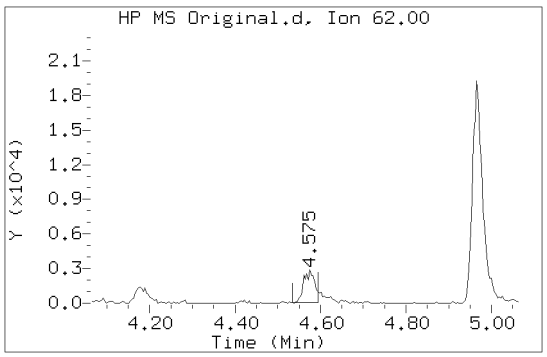
AFTER
MASS
77
AREA
1739
HEIGHT
1070
23-Aug-2023
11:12



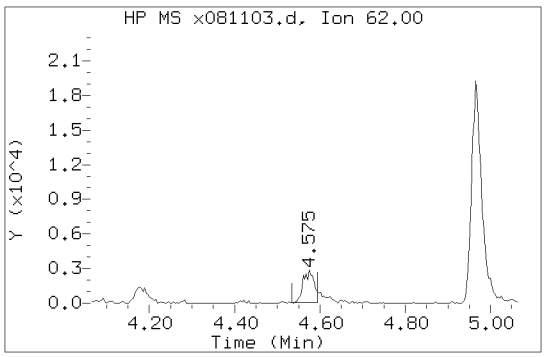
1,2-Dichloroethane (107-06-2)

Reason Code:

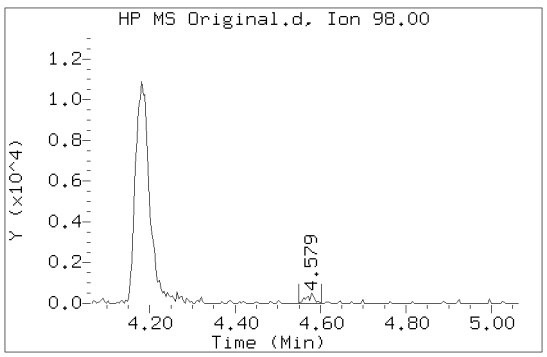
BEFORE
MASS
83
AREA
5756
HEIGHT
3376
12-Aug-2023
22:44



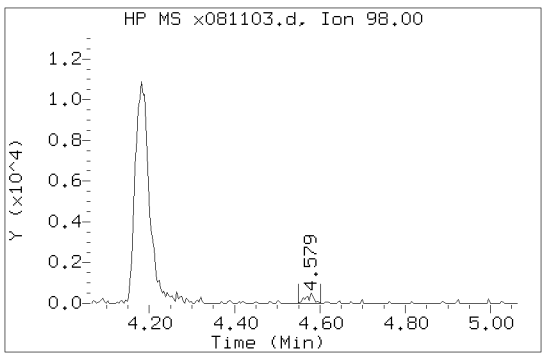
AFTER
MASS
62
AREA
4942
HEIGHT
2820
23-Aug-2023
11:12



BEFORE
MASS
85
AREA
5228
HEIGHT
2394
12-Aug-2023
22:44



AFTER
MASS
98
AREA
620
HEIGHT
519
23-Aug-2023
11:12

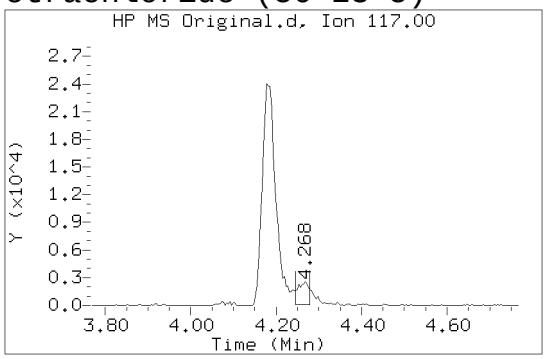


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

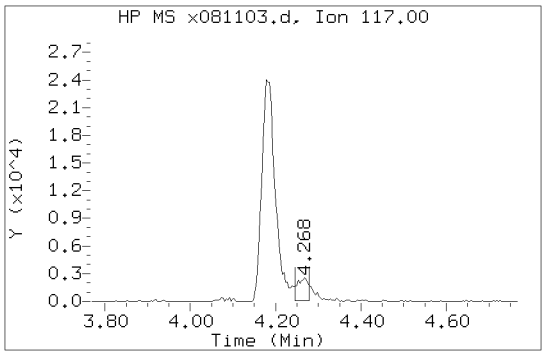
Carbon Tetrachloride (56-23-5)

Reason Code:

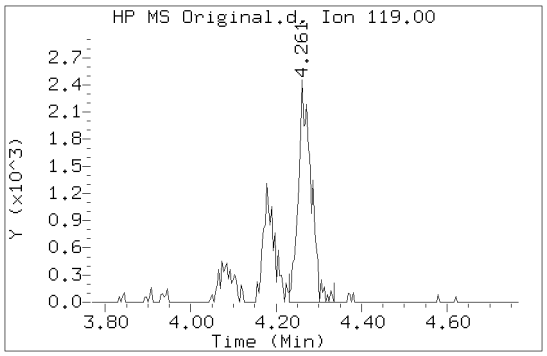
BEFORE
MASS
128
AREA
1872
HEIGHT
1008
12-Aug-2023
22:44



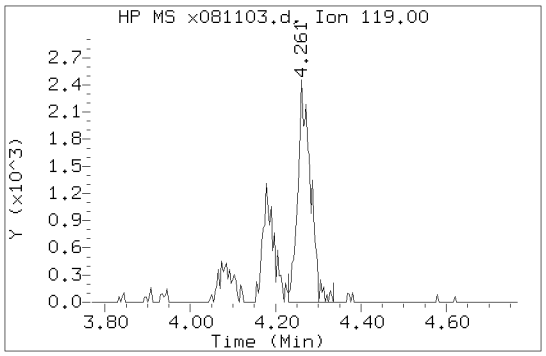
AFTER
MASS
117
AREA
4492
HEIGHT
2452
23-Aug-2023
11:12



BEFORE
MASS
49
AREA
3815
HEIGHT
1708
12-Aug-2023
22:44



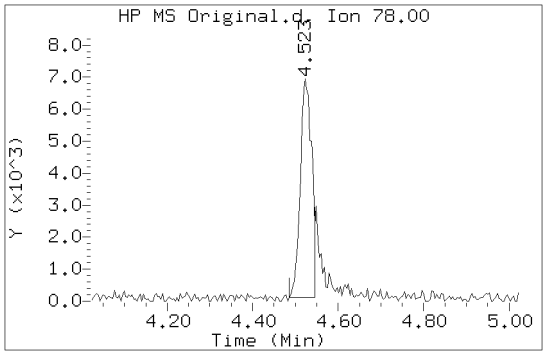
AFTER
MASS
119
AREA
5136
HEIGHT
2455
23-Aug-2023
11:12



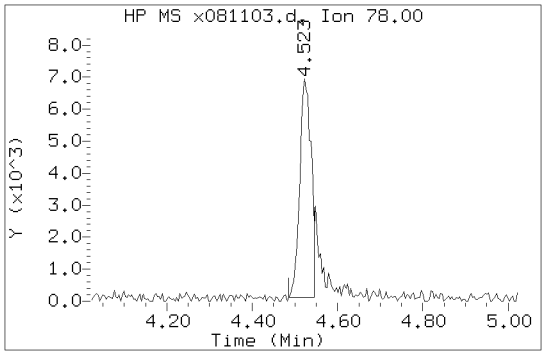
Benzene (71-43-2)

Reason Code:

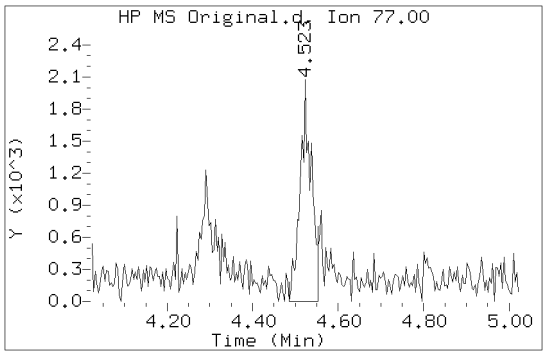
BEFORE
MASS
75
AREA
4132
HEIGHT
2765
12-Aug-2023
22:44



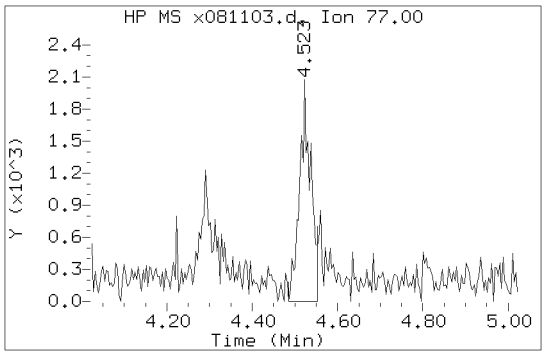
AFTER
MASS
78
AREA
12962
HEIGHT
6832
23-Aug-2023
11:12



BEFORE
MASS
110
AREA
2063
HEIGHT
982
12-Aug-2023
22:44



AFTER
MASS
77
AREA
3841
HEIGHT
2074
23-Aug-2023
11:12



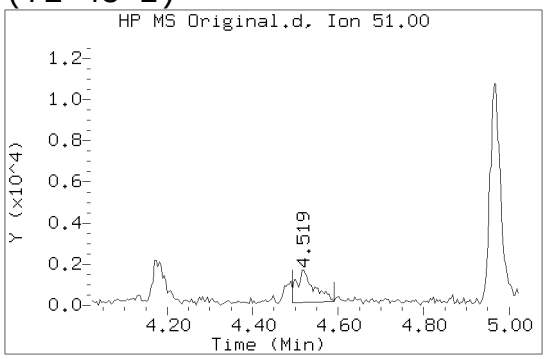
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InstruID : voa6.i
LabSampID : VSTD000.5

Benzene (71-43-2)

Reason Code:

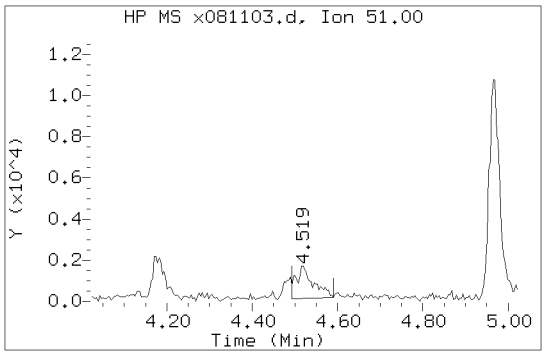
BEFORE

MASS
77
AREA
1739
HEIGHT
1070
12-Aug-2023
22:44



AFTER

MASS
51
AREA
4527
HEIGHT
1570
23-Aug-2023
11:12

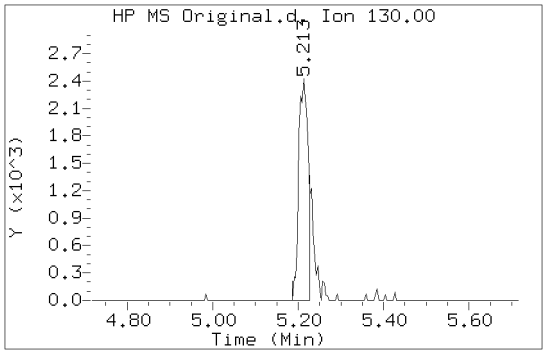


Trichloroethene (79-01-6)

Reason Code:

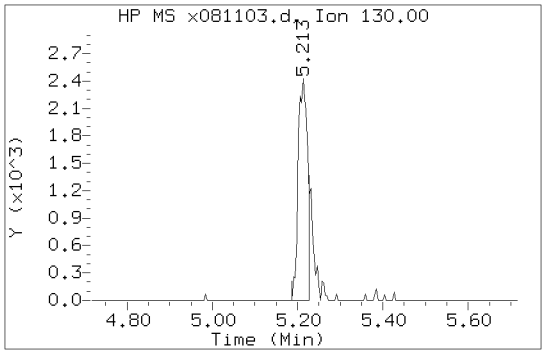
BEFORE

MASS
62
AREA
4942
HEIGHT
2820
12-Aug-2023
22:44



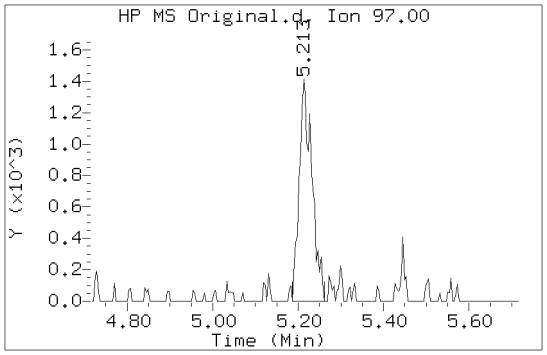
AFTER

MASS
130
AREA
3802
HEIGHT
2426
23-Aug-2023
11:12



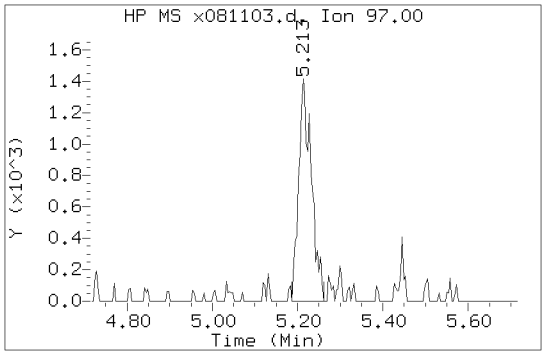
BEFORE

MASS
98
AREA
620
HEIGHT
519
12-Aug-2023
22:44



AFTER

MASS
97
AREA
2959
HEIGHT
1415
23-Aug-2023
11:12

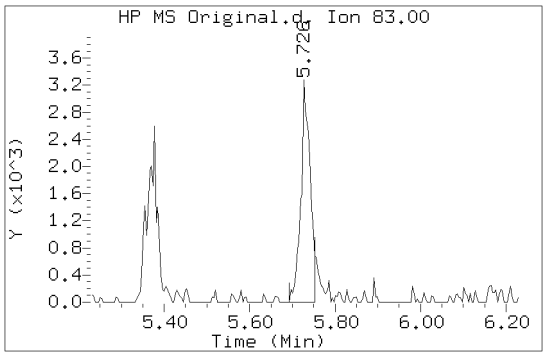


Bromodichloromethane (75-27-4)

Reason Code:

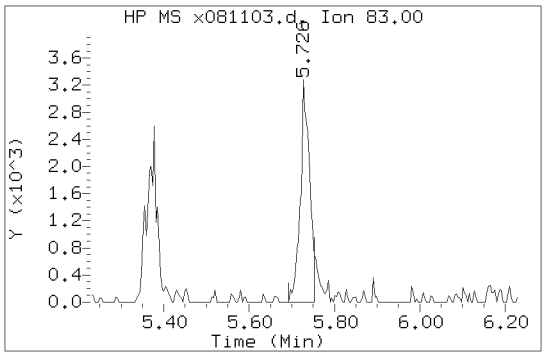
BEFORE

MASS
117
AREA
4492
HEIGHT
2452
12-Aug-2023
22:44



AFTER

MASS
83
AREA
5036
HEIGHT
3277
23-Aug-2023
11:12



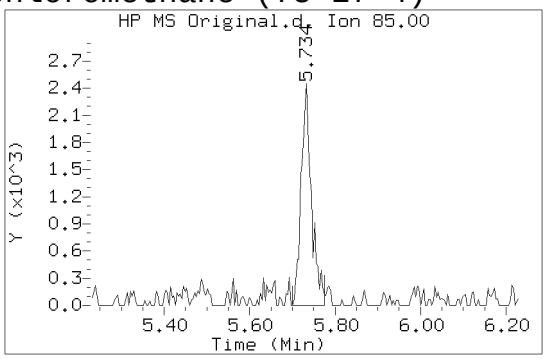
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InstruID : voa6.i
LabSampID : VSTD000.5

Bromodichloromethane (75-27-4)

Reason Code:

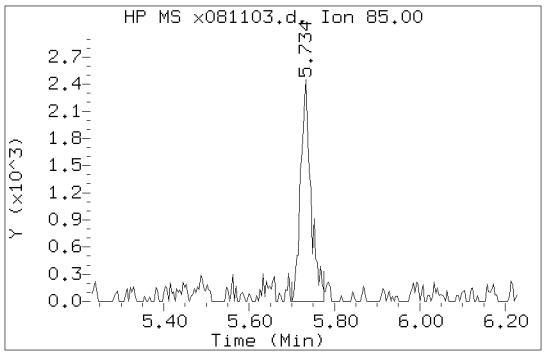
BEFORE

MASS
119
AREA
5136
HEIGHT
2455
12-Aug-2023
22:44



AFTER

MASS
85
AREA
4196
HEIGHT
2450
23-Aug-2023
11:12

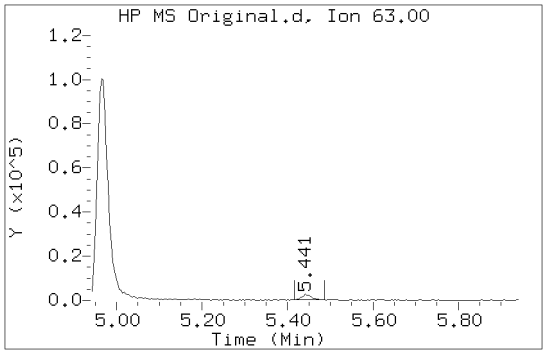


1,2-Dichloropropane (78-87-5)

Reason Code:

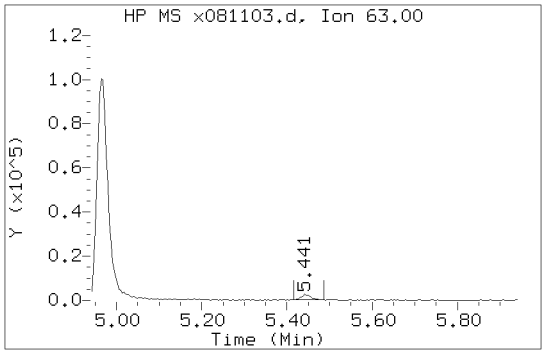
BEFORE

MASS
114
AREA
936474
HEIGHT
509441
12-Aug-2023
22:44



AFTER

MASS
63
AREA
3864
HEIGHT
2635
23-Aug-2023
11:12

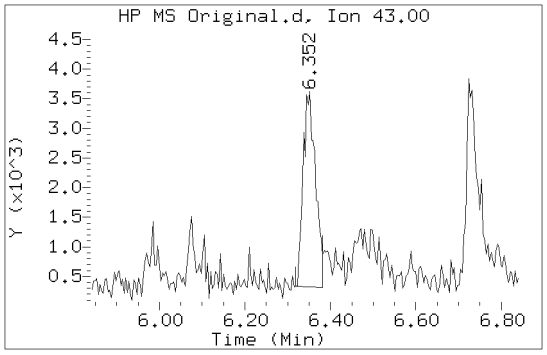


4-Methyl-2-Pentanone (108-10-1)

Reason Code:

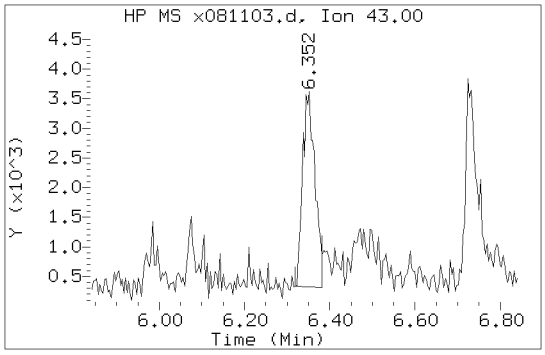
BEFORE

MASS
130
AREA
3802
HEIGHT
2426
12-Aug-2023
22:44



AFTER

MASS
43
AREA
6765
HEIGHT
3307
23-Aug-2023
11:12

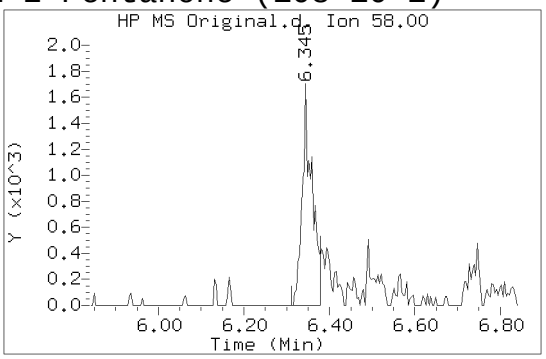


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InstruID : voa6.i
LabSampID : VSTD000.5

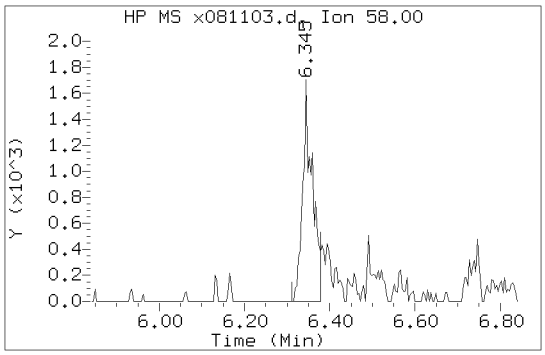
4-Methyl-2-Pentanone (108-10-1)

Reason Code:

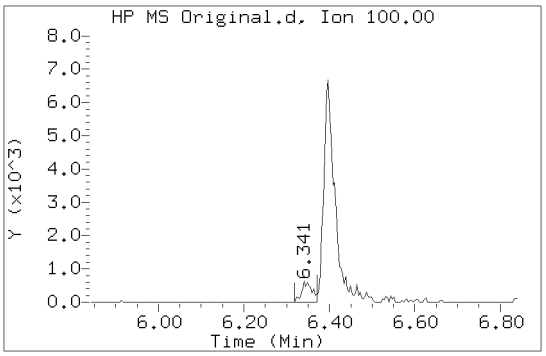
BEFORE
MASS
97
AREA
2959
HEIGHT
1415
12-Aug-2023
22:44



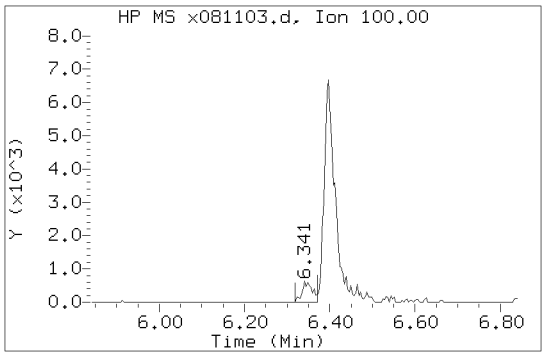
AFTER
MASS
58
AREA
2754
HEIGHT
1705
23-Aug-2023
11:12



BEFORE
MASS
95
AREA
4810
HEIGHT
2295
12-Aug-2023
22:44



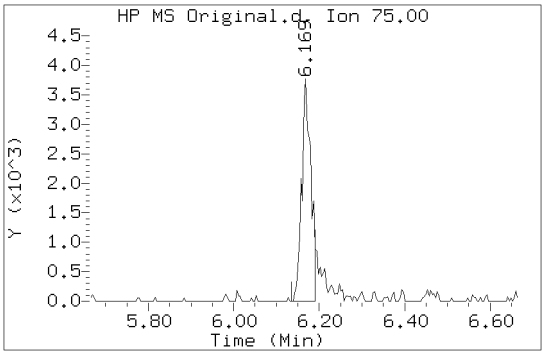
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MASS
100
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1094
HEIGHT
644
23-Aug-2023
11:12



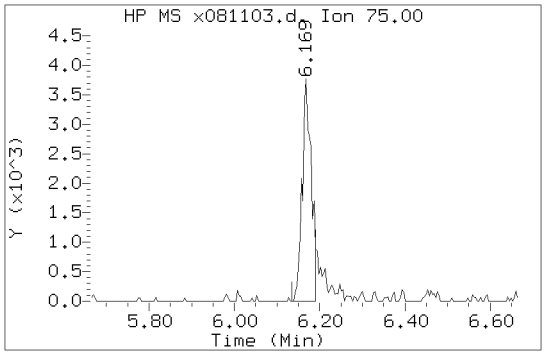
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

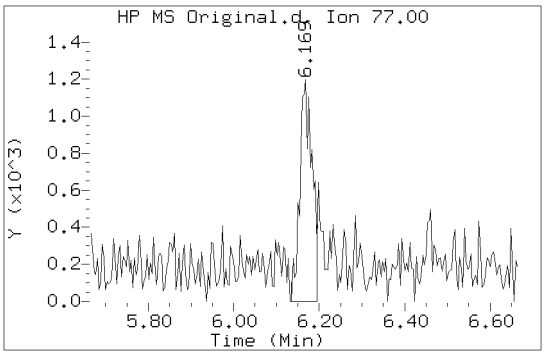
BEFORE
MASS
83
AREA
5036
HEIGHT
3277
12-Aug-2023
22:44



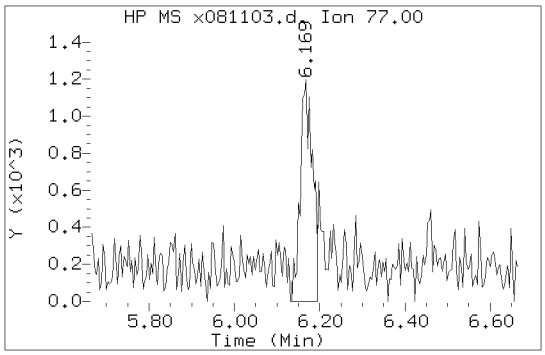
AFTER
MASS
75
AREA
5702
HEIGHT
3770
23-Aug-2023
11:12



BEFORE
MASS
85
AREA
4196
HEIGHT
2450
12-Aug-2023
22:44



AFTER
MASS
77
AREA
2427
HEIGHT
1197
23-Aug-2023
11:12



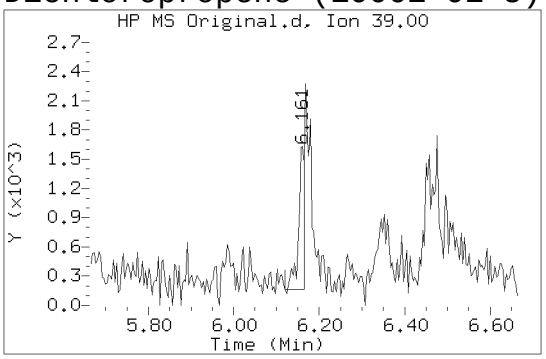
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InstruID : voa6.i
LabSampID : VSTD000.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

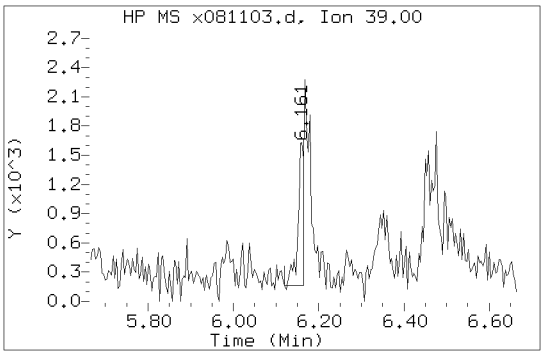
BEFORE

MASS
127
AREA
636
HEIGHT
452
12-Aug-2023
22:44



AFTER

MASS
39
AREA
1423
HEIGHT
1463
23-Aug-2023
11:12

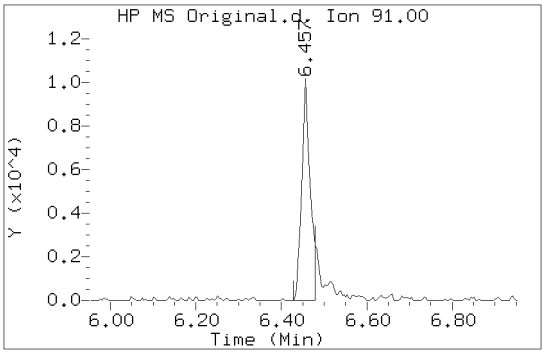


Toluene (108-88-3)

Reason Code:

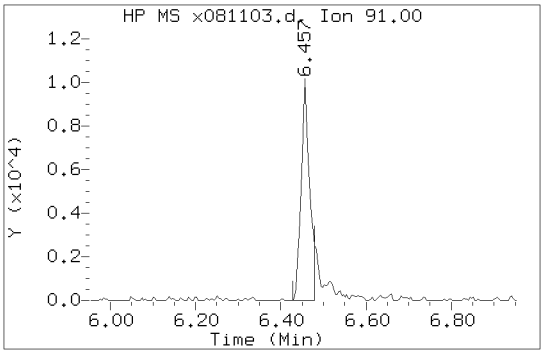
BEFORE

MASS
63
AREA
3864
HEIGHT
2635
12-Aug-2023
22:44



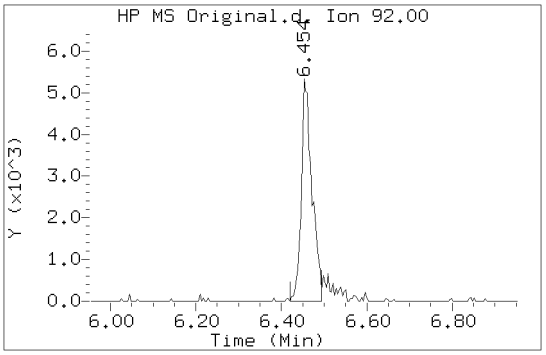
AFTER

MASS
91
AREA
14402
HEIGHT
10180
23-Aug-2023
11:12



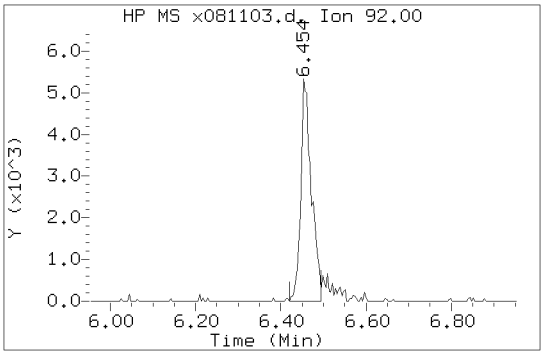
BEFORE

MASS
112
AREA
124
HEIGHT
134
12-Aug-2023
22:44



AFTER

MASS
92
AREA
9443
HEIGHT
5333
23-Aug-2023
11:12

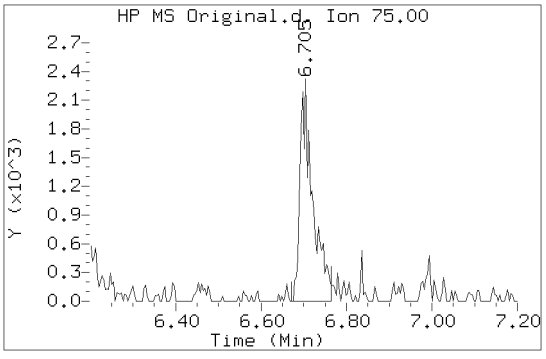


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

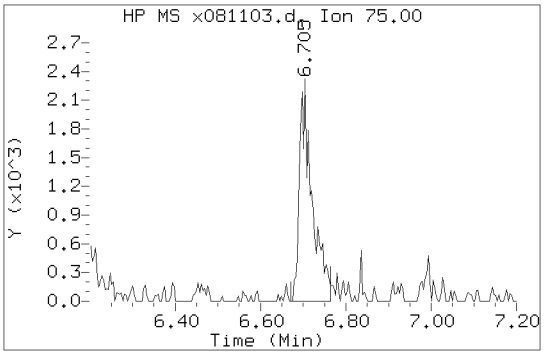
BEFORE

MASS
93
AREA
2538
HEIGHT
1541
12-Aug-2023
22:44



AFTER

MASS
75
AREA
4833
HEIGHT
2322
23-Aug-2023
11:12

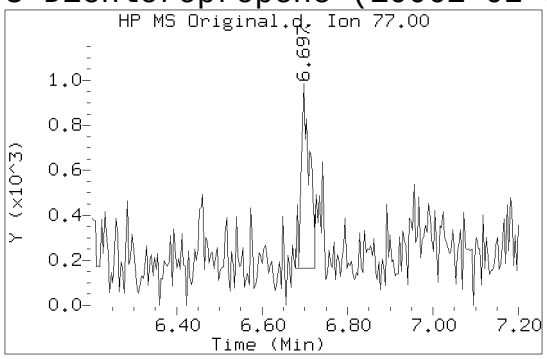


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LabSampID : VSTD000.5

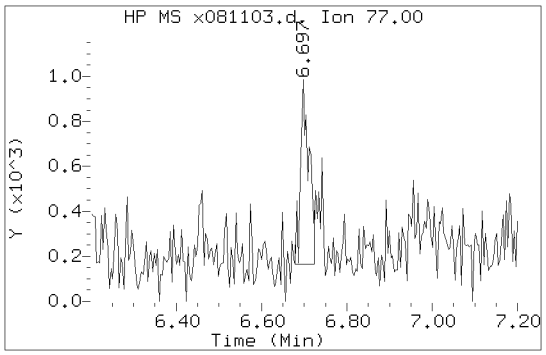
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

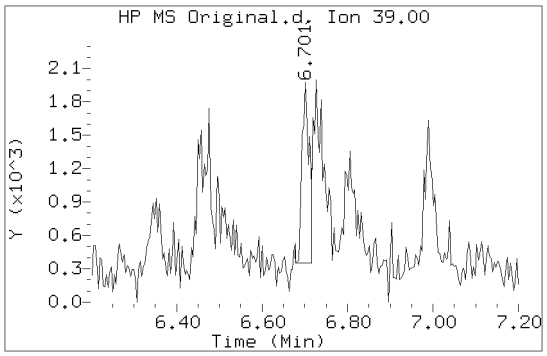
BEFORE
MASS
95
AREA
2746
HEIGHT
1704
12-Aug-2023
22:44



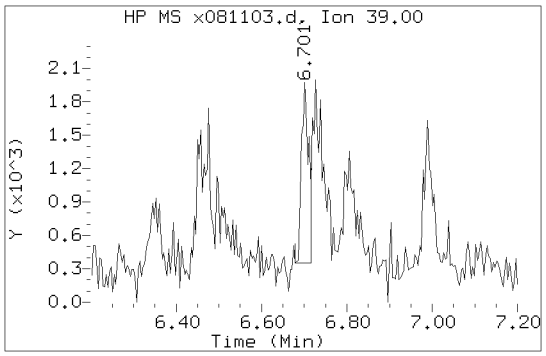
AFTER
MASS
77
AREA
1159
HEIGHT
821
23-Aug-2023
11:12



BEFORE
MASS
174
AREA
3192
HEIGHT
1917
12-Aug-2023
22:44



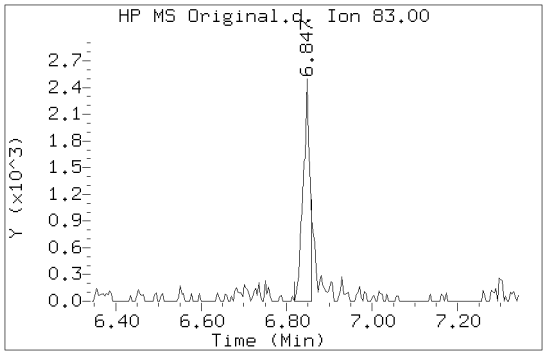
AFTER
MASS
39
AREA
1956
HEIGHT
1620
23-Aug-2023
11:12



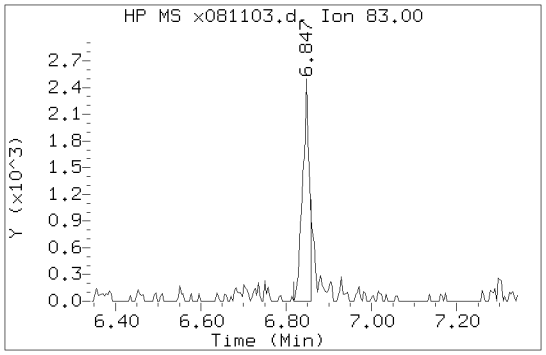
1,1,2-Trichloroethane (79-00-5)

Reason Code:

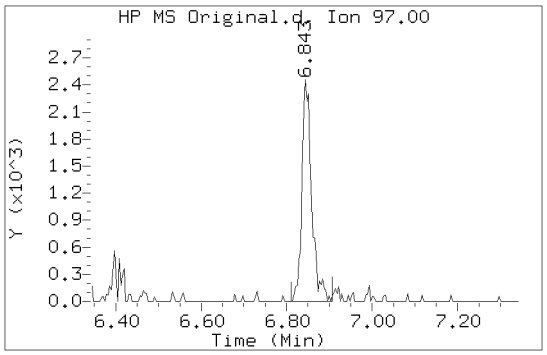
BEFORE
MASS
75
AREA
5702
HEIGHT
3770
12-Aug-2023
22:44



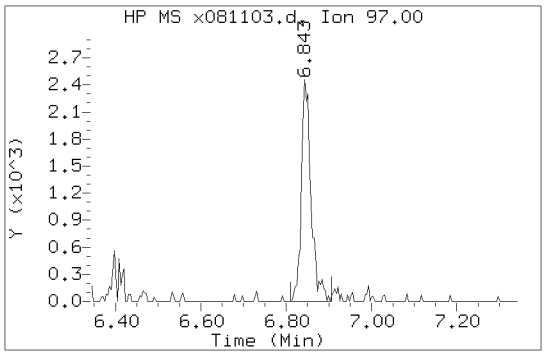
AFTER
MASS
83
AREA
2765
HEIGHT
2497
23-Aug-2023
11:12



BEFORE
MASS
77
AREA
2427
HEIGHT
1197
12-Aug-2023
22:44



AFTER
MASS
97
AREA
4005
HEIGHT
2458
23-Aug-2023
11:12

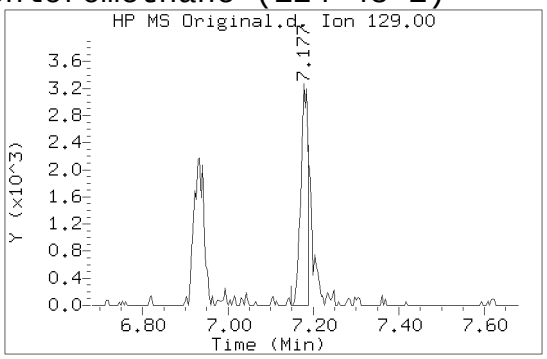


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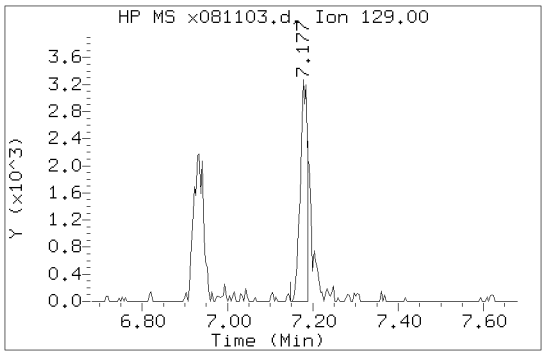
Dibromochloromethane (124-48-1)

Reason Code:

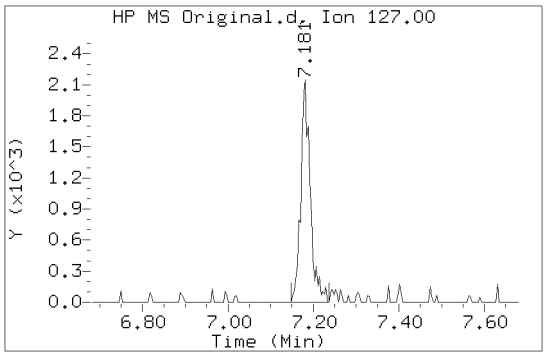
BEFORE
MASS
91
AREA
14402
HEIGHT
10180
12-Aug-2023
22:44



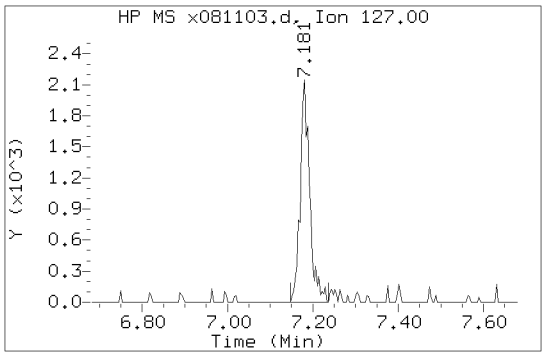
AFTER
MASS
129
AREA
3861
HEIGHT
3271
23-Aug-2023
11:12



BEFORE
MASS
92
AREA
9443
HEIGHT
5333
12-Aug-2023
22:44



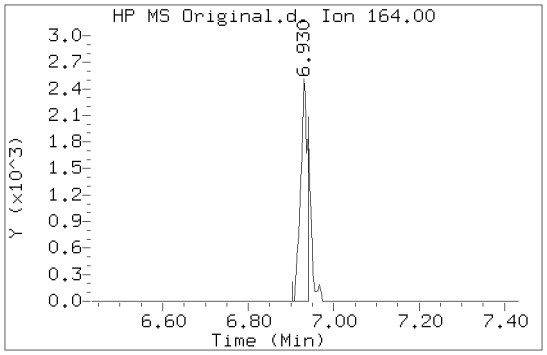
AFTER
MASS
127
AREA
3398
HEIGHT
2147
23-Aug-2023
11:12



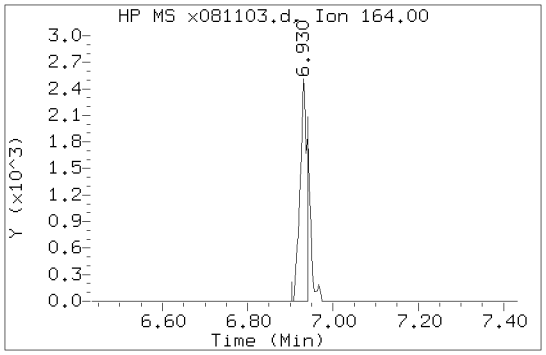
Tetrachloroethene (127-18-4)

Reason Code:

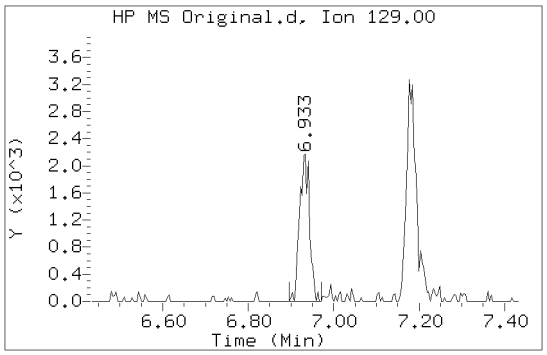
BEFORE
MASS
75
AREA
4833
HEIGHT
2322
12-Aug-2023
22:44



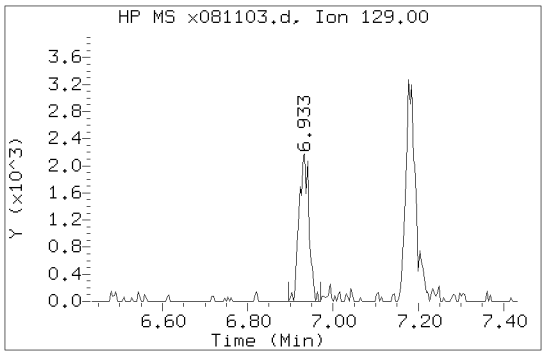
AFTER
MASS
164
AREA
2916
HEIGHT
2512
23-Aug-2023
11:12



BEFORE
MASS
77
AREA
1159
HEIGHT
821
12-Aug-2023
22:44



AFTER
MASS
129
AREA
3586
HEIGHT
2175
23-Aug-2023
11:12

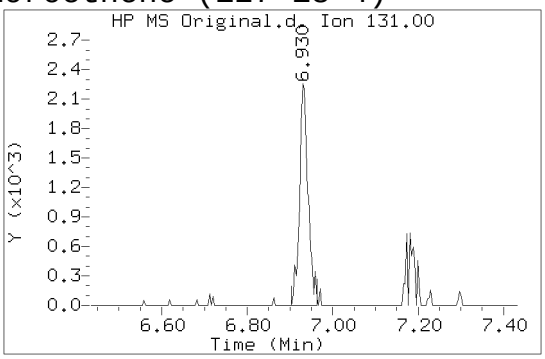


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LabSampID : VSTD000.5

Tetrachloroethene (127-18-4)

BEFORE

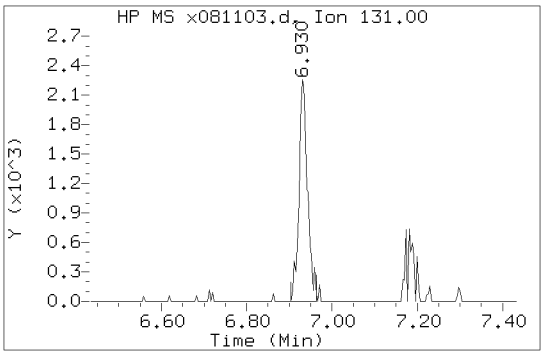
MASS
39
AREA
1956
HEIGHT
1620
12-Aug-2023
22:44



AFTER

MASS
131
AREA
3239
HEIGHT
2257
23-Aug-2023
11:12

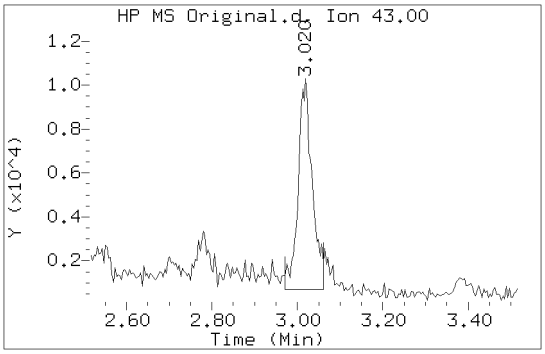
Reason Code:



Vinyl Acetate (108-05-4)

BEFORE

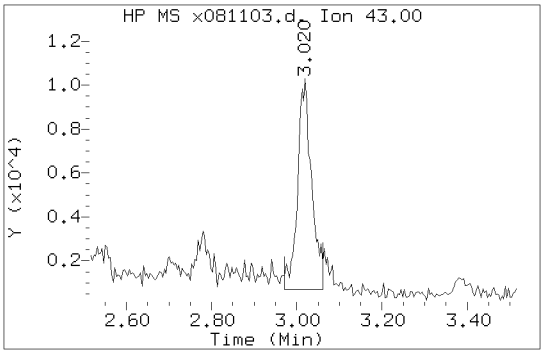
MASS
43
AREA
4310
HEIGHT
1616
12-Aug-2023
22:44



AFTER

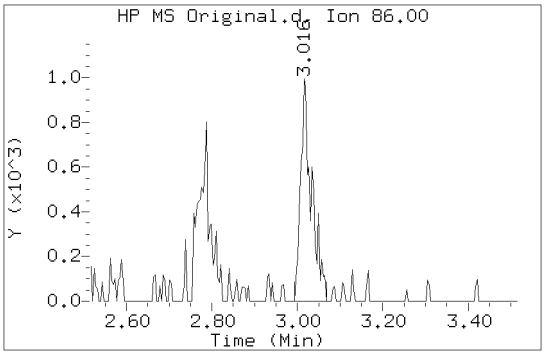
MASS
43
AREA
22253
HEIGHT
9580
23-Aug-2023
11:12

Reason Code:



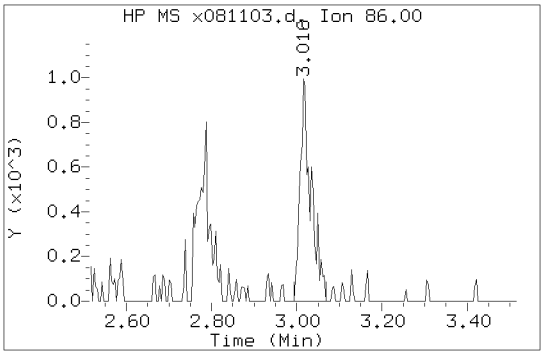
BEFORE

MASS
58
AREA
2378
HEIGHT
1391
12-Aug-2023
22:44



AFTER

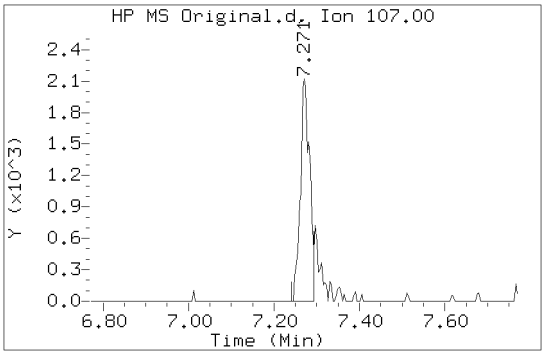
MASS
86
AREA
1808
HEIGHT
995
23-Aug-2023
11:12



1,2-Dibromoethane (106-93-4)

BEFORE

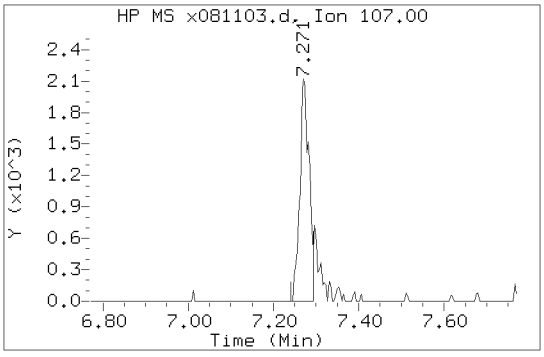
MASS
83
AREA
2765
HEIGHT
2497
12-Aug-2023
22:44



AFTER

MASS
107
AREA
3314
HEIGHT
2121
23-Aug-2023
11:12

Reason Code:

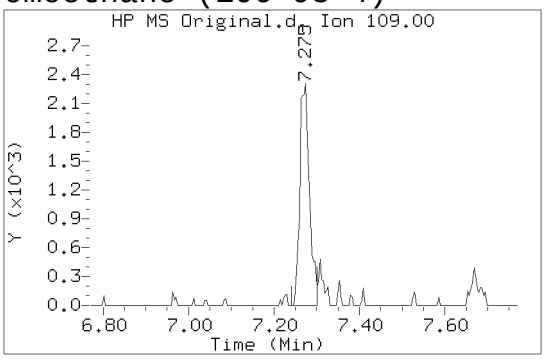


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LabSampID : VSTD000.5

1,2-Dibromoethane (106-93-4)

BEFORE

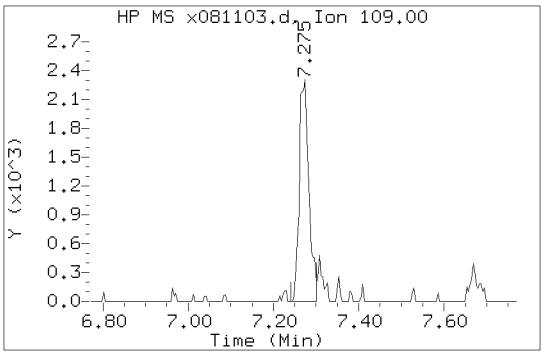
MASS
97
AREA
4005
HEIGHT
2458
12-Aug-2023
22:44



Reason Code:

AFTER

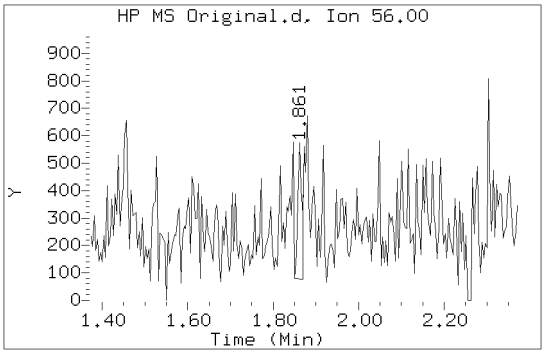
MASS
109
AREA
3693
HEIGHT
2305
23-Aug-2023
11:12



Acrolein (107-02-8)

BEFORE

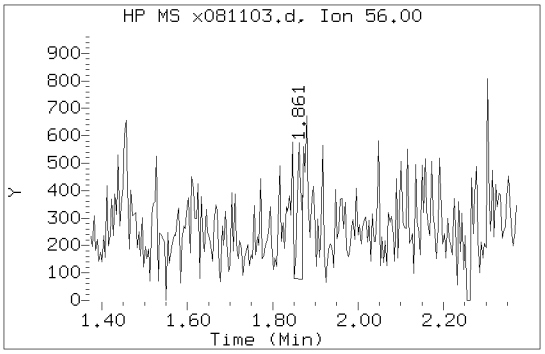
MASS
76
AREA
5853
HEIGHT
3539
12-Aug-2023
22:44



Reason Code:

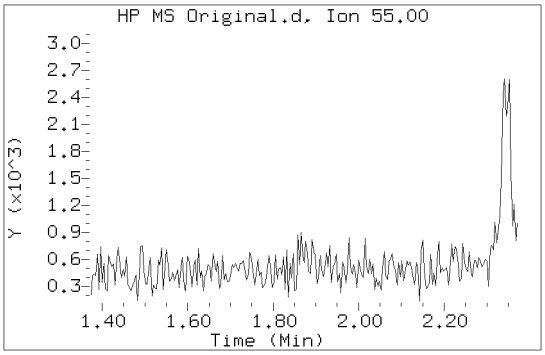
AFTER

MASS
56
AREA
323
HEIGHT
496
23-Aug-2023
11:12



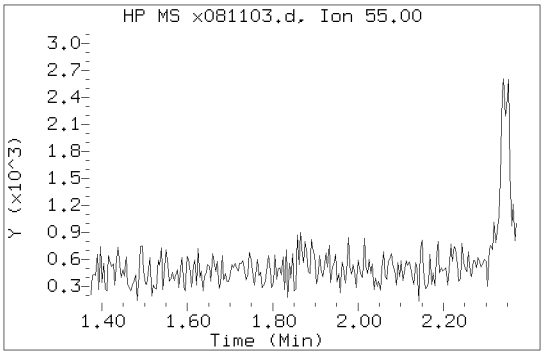
BEFORE

MASS
78
AREA
2157
HEIGHT
1296
12-Aug-2023
22:44



AFTER

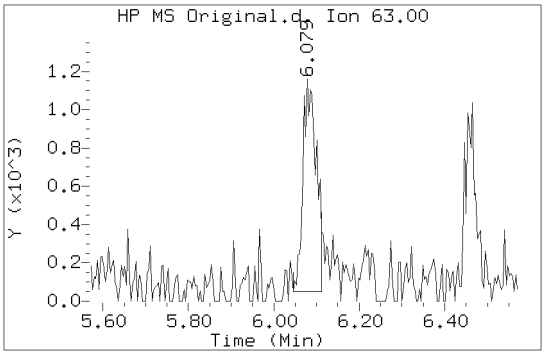
MASS
55
AREA
0
HEIGHT
0
23-Aug-2023
11:12



2-Chloroethylvinyl ether (110-75-8)

BEFORE

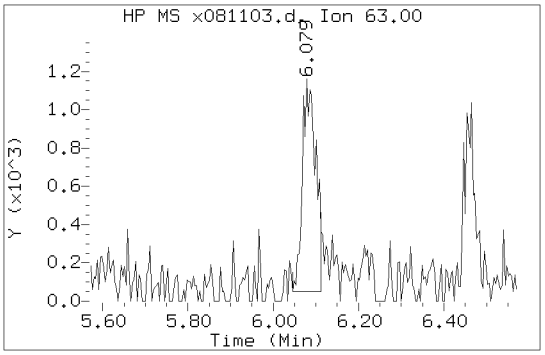
MASS
129
AREA
3861
HEIGHT
3271
12-Aug-2023
22:44



Reason Code:

AFTER

MASS
63
AREA
2443
HEIGHT
1109
23-Aug-2023
11:12



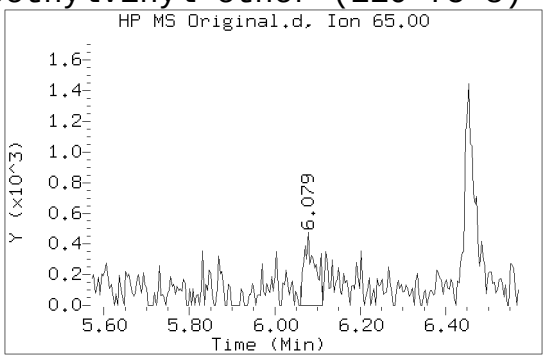
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

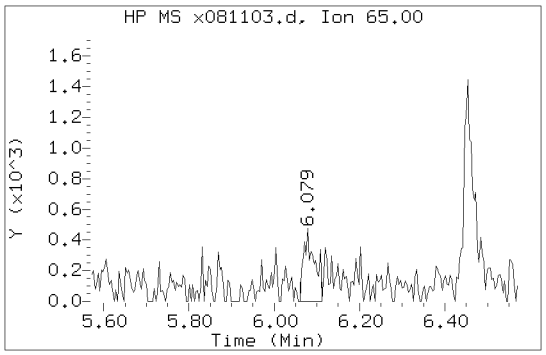
BEFORE

MASS
127
AREA
3398
HEIGHT
2147
12-Aug-2023
22:44



AFTER

MASS
65
AREA
845
HEIGHT
477
23-Aug-2023
11:12

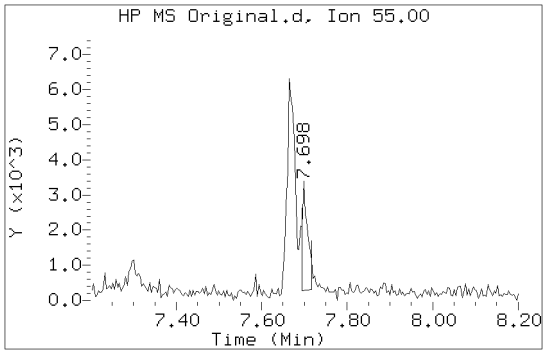


1-Chlorohexane (544-10-5)

Reason Code:

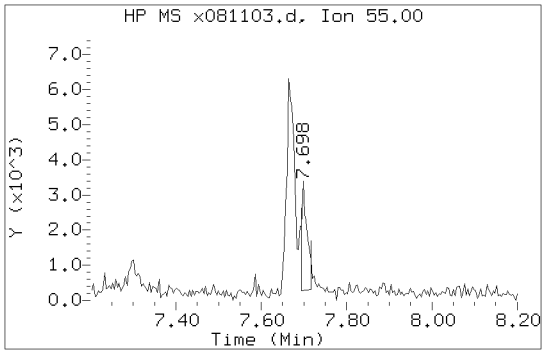
BEFORE

MASS
164
AREA
2916
HEIGHT
2512
12-Aug-2023
22:44



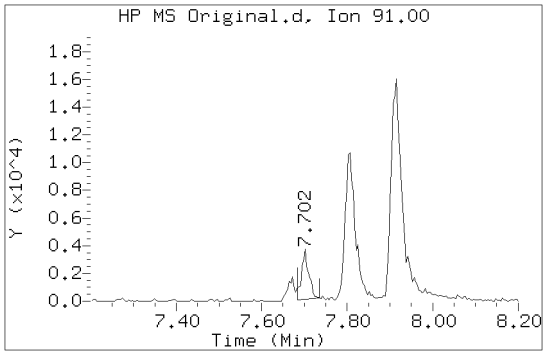
AFTER

MASS
55
AREA
2827
HEIGHT
3106
23-Aug-2023
11:12



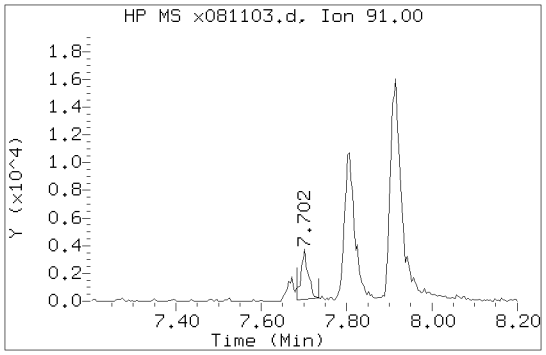
BEFORE

MASS
129
AREA
3586
HEIGHT
2175
12-Aug-2023
22:44



AFTER

MASS
91
AREA
4425
HEIGHT
3645
23-Aug-2023
11:12

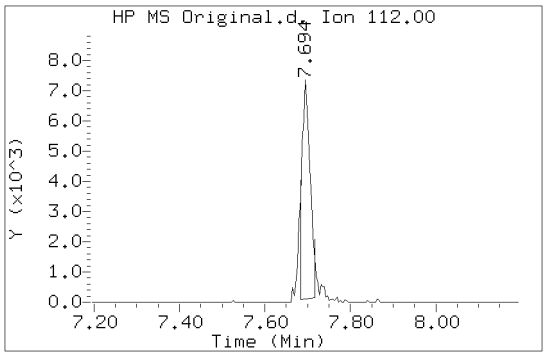


Chlorobenzene (108-90-7)

Reason Code:

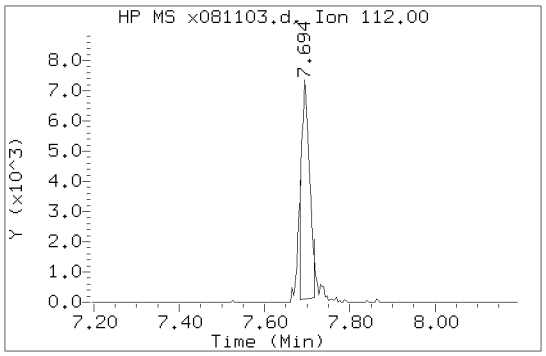
BEFORE

MASS
107
AREA
3314
HEIGHT
2121
12-Aug-2023
22:44



AFTER

MASS
112
AREA
10027
HEIGHT
7254
23-Aug-2023
11:12

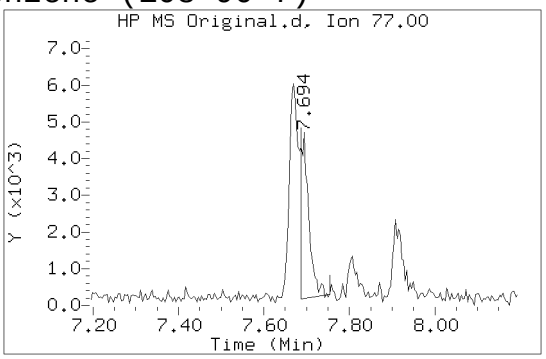


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InstruID : voa6.i
LabSampID : VSTD000.5

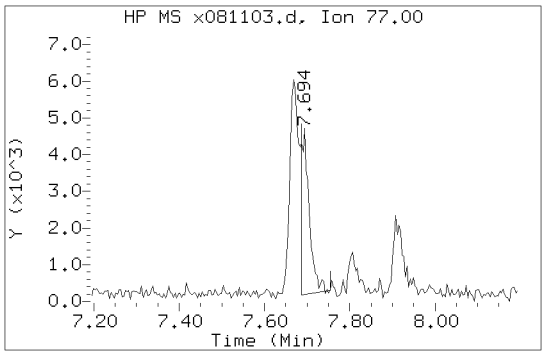
Chlorobenzene (108-90-7)

Reason Code:

BEFORE
MASS
109
AREA
3693
HEIGHT
2305
12-Aug-2023
22:44



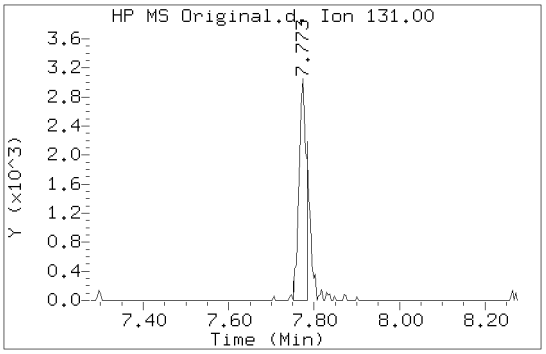
AFTER
MASS
77
AREA
5875
HEIGHT
4525
23-Aug-2023
11:12



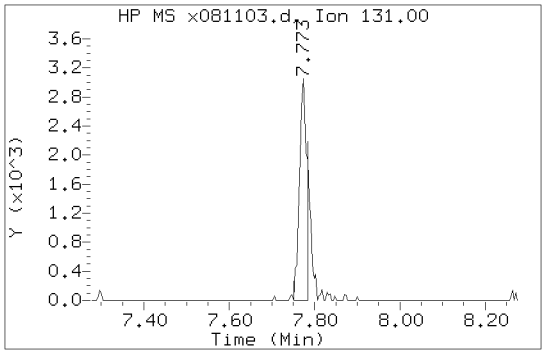
1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

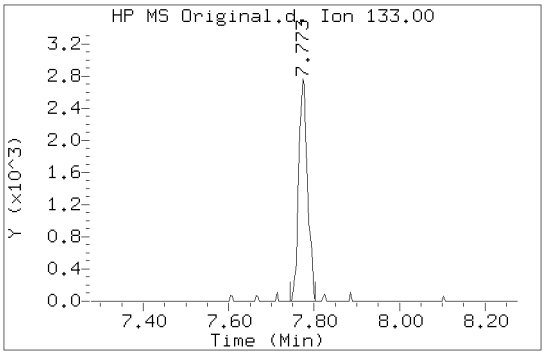
BEFORE
MASS
112
AREA
10027
HEIGHT
7254
12-Aug-2023
22:44



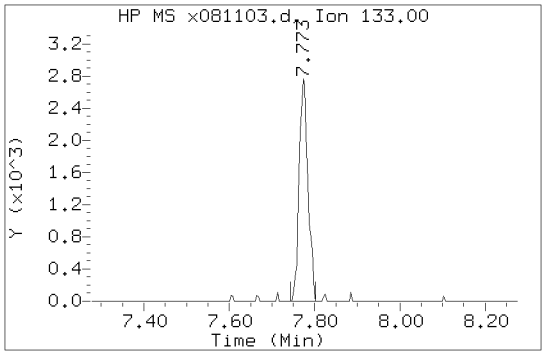
AFTER
MASS
131
AREA
3665
HEIGHT
3052
23-Aug-2023
11:12



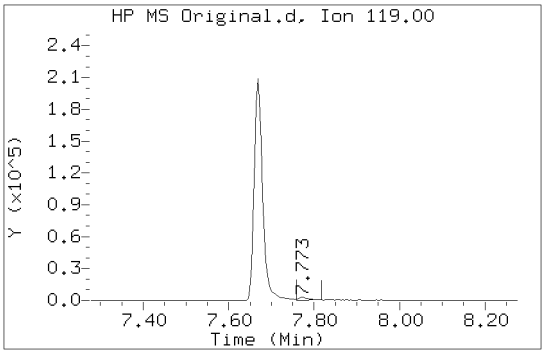
BEFORE
MASS
77
AREA
5875
HEIGHT
4525
12-Aug-2023
22:44



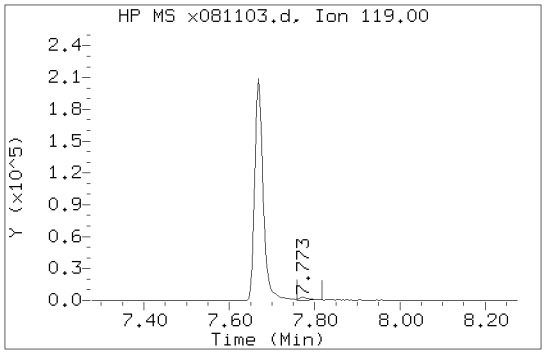
AFTER
MASS
133
AREA
4096
HEIGHT
2766
23-Aug-2023
11:12



BEFORE
MASS
114
AREA
4154
HEIGHT
2655
12-Aug-2023
22:44



AFTER
MASS
119
AREA
4113
HEIGHT
2897
23-Aug-2023
11:12

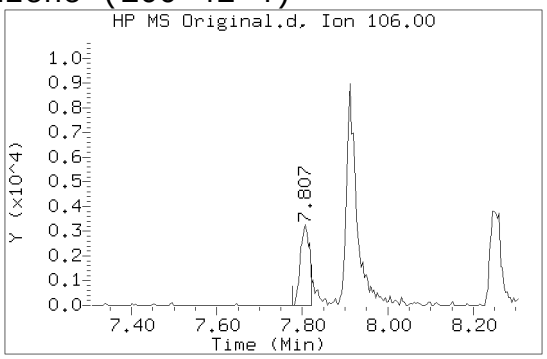


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LabSampID : VSTD000.5

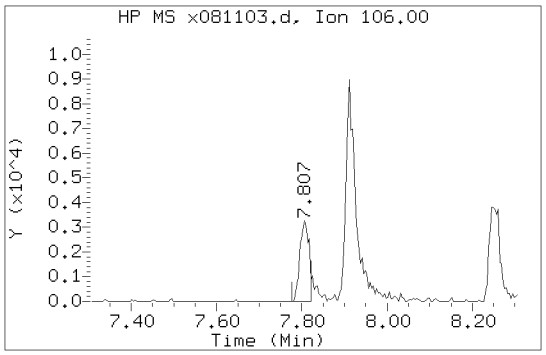
Ethylbenzene (100-41-4)

Reason Code:

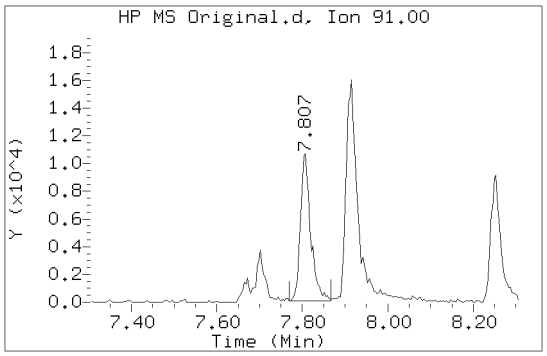
BEFORE
MASS
131
AREA
3665
HEIGHT
3052
12-Aug-2023
22:44



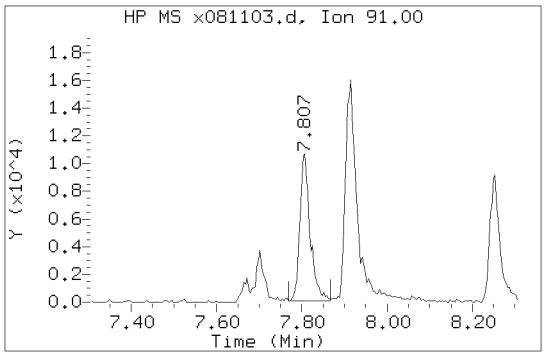
AFTER
MASS
106
AREA
4890
HEIGHT
3268
23-Aug-2023
11:12



BEFORE
MASS
133
AREA
4096
HEIGHT
2766
12-Aug-2023
22:44



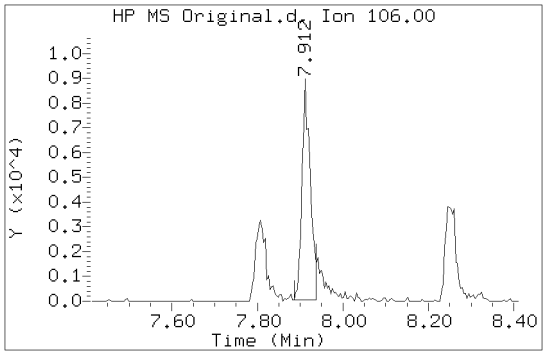
AFTER
MASS
91
AREA
18072
HEIGHT
10624
23-Aug-2023
11:12



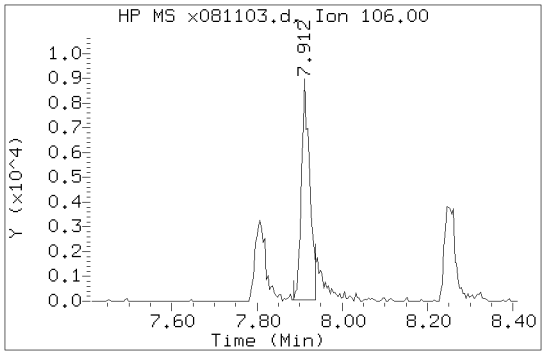
m,p-Xylenes ()

Reason Code:

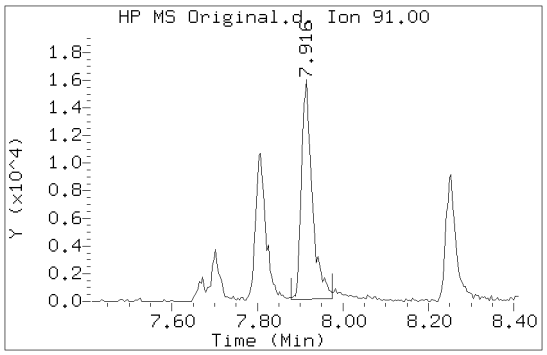
BEFORE
MASS
106
AREA
4890
HEIGHT
3268
12-Aug-2023
22:44



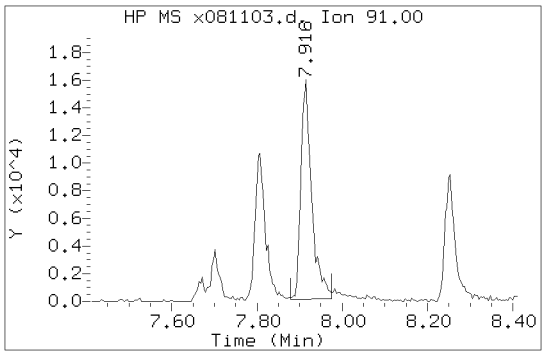
AFTER
MASS
106
AREA
12402
HEIGHT
8912
23-Aug-2023
11:12



BEFORE
MASS
91
AREA
18072
HEIGHT
10624
12-Aug-2023
22:44



AFTER
MASS
91
AREA
28630
HEIGHT
15878
23-Aug-2023
11:12

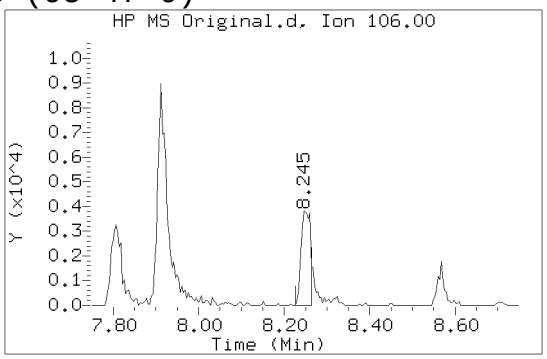


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InstruID : voa6.i
LabSampID : VSTD000.5

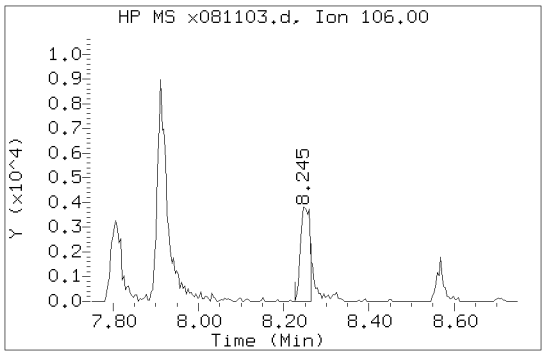
o-Xylene (95-47-6)

Reason Code:

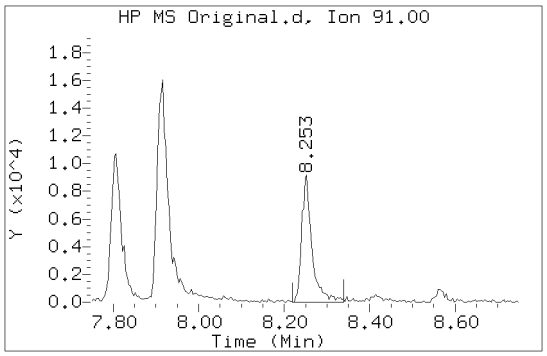
BEFORE
MASS
106
AREA
12402
HEIGHT
8912
12-Aug-2023
22:44



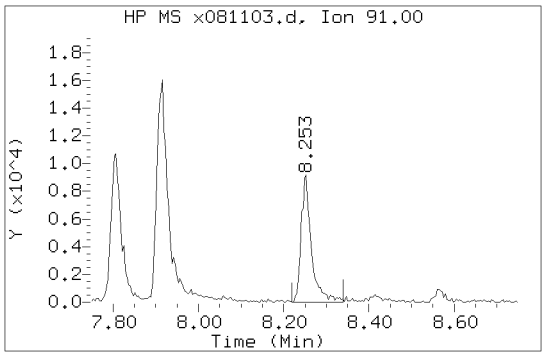
AFTER
MASS
106
AREA
5910
HEIGHT
3818
23-Aug-2023
11:12



BEFORE
MASS
91
AREA
28630
HEIGHT
15878
12-Aug-2023
22:44



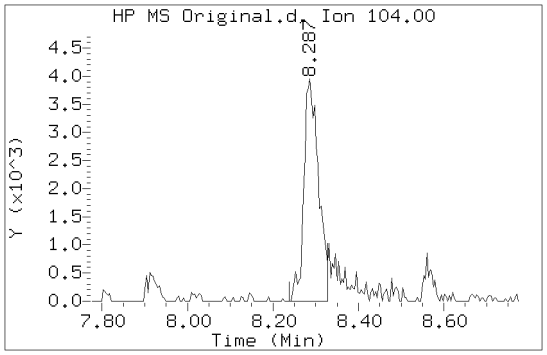
AFTER
MASS
91
AREA
15761
HEIGHT
9162
23-Aug-2023
11:12



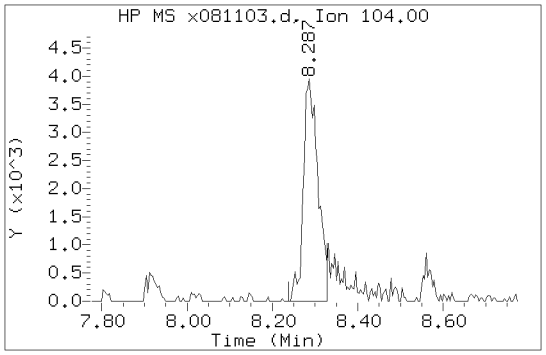
Styrene (100-42-5)

Reason Code:

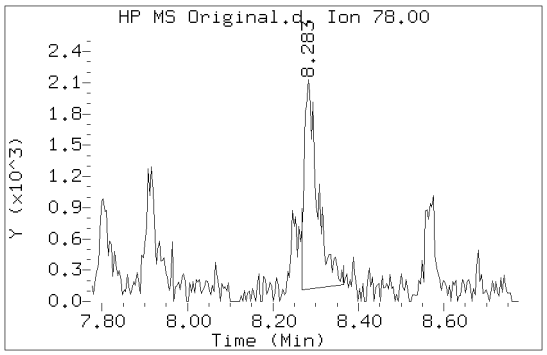
BEFORE
MASS
106
AREA
5910
HEIGHT
3818
12-Aug-2023
22:44



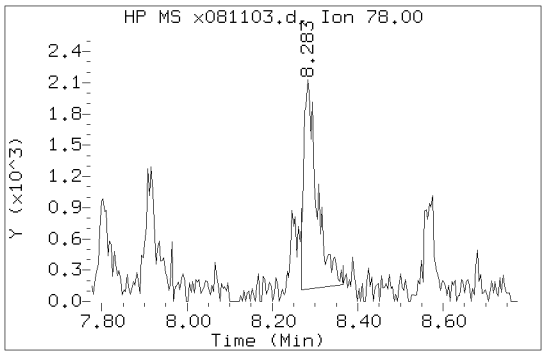
AFTER
MASS
104
AREA
9494
HEIGHT
3950
23-Aug-2023
11:12



BEFORE
MASS
91
AREA
15761
HEIGHT
9162
12-Aug-2023
22:44



AFTER
MASS
78
AREA
4325
HEIGHT
2009
23-Aug-2023
11:12

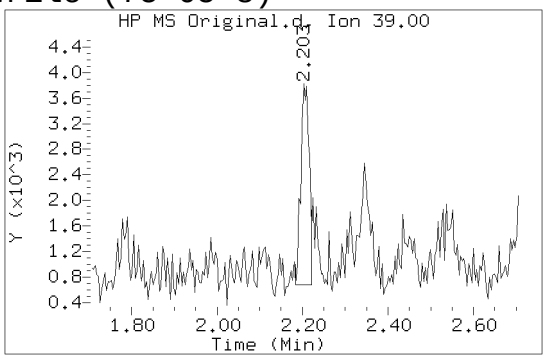


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

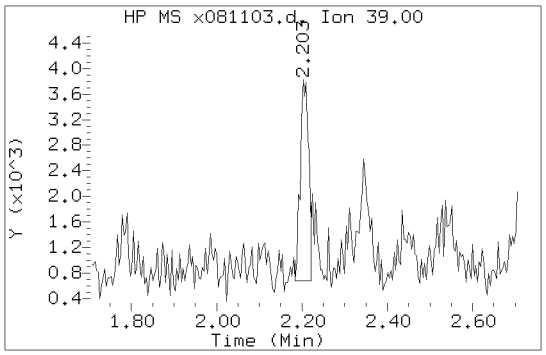
Acetonitrile (75-05-8)

Reason Code:

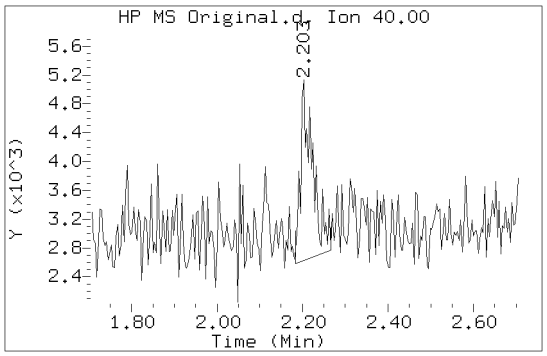
BEFORE
MASS
104
AREA
9494
HEIGHT
3950
12-Aug-2023
22:44



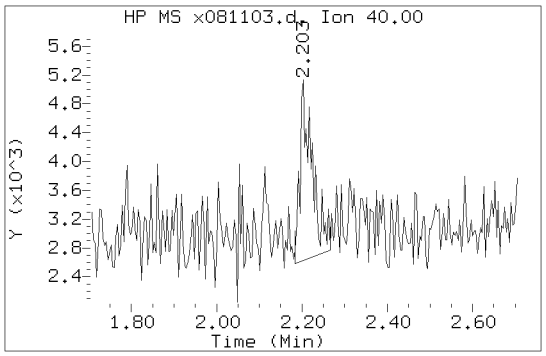
AFTER
MASS
39
AREA
4428
HEIGHT
3143
23-Aug-2023
11:12



BEFORE
MASS
78
AREA
4325
HEIGHT
2009
12-Aug-2023
22:44



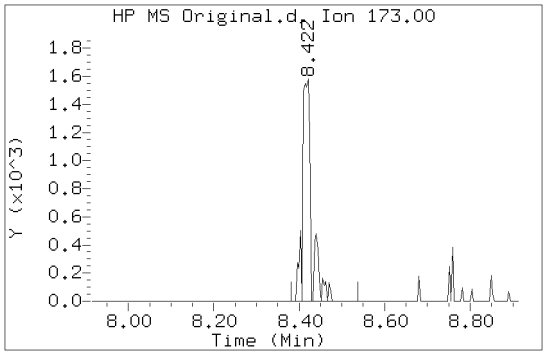
AFTER
MASS
40
AREA
4938
HEIGHT
2505
23-Aug-2023
11:12



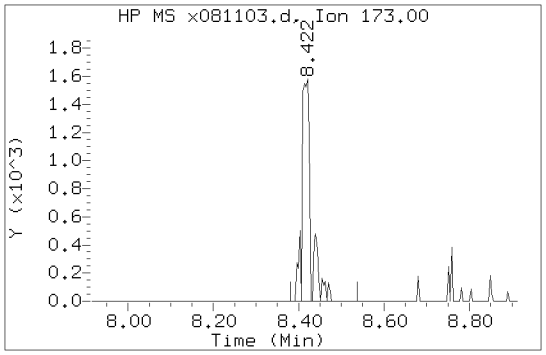
Bromoform (75-25-2)

Reason Code:

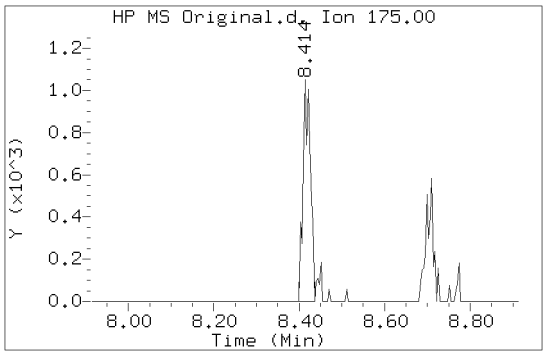
BEFORE
MASS
39
AREA
4428
HEIGHT
3143
12-Aug-2023
22:44



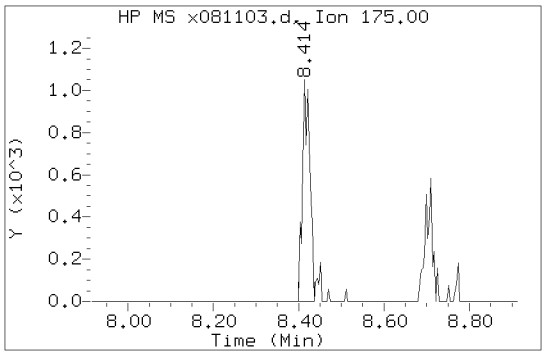
AFTER
MASS
173
AREA
2332
HEIGHT
1581
23-Aug-2023
11:12



BEFORE
MASS
40
AREA
4938
HEIGHT
2505
12-Aug-2023
22:44



AFTER
MASS
175
AREA
1279
HEIGHT
1051
23-Aug-2023
11:12

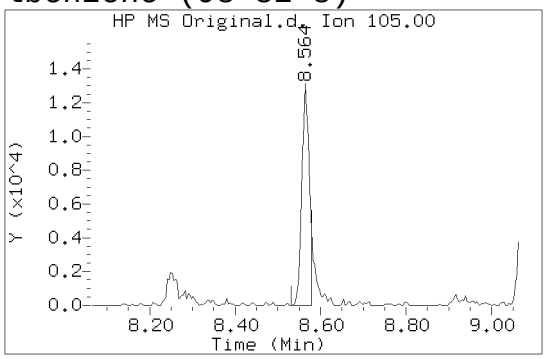


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

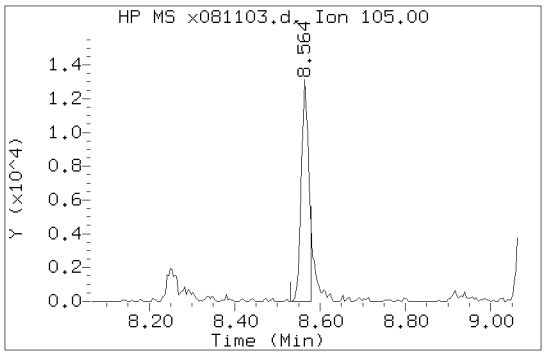
Isopropylbenzene (98-82-8)

Reason Code:

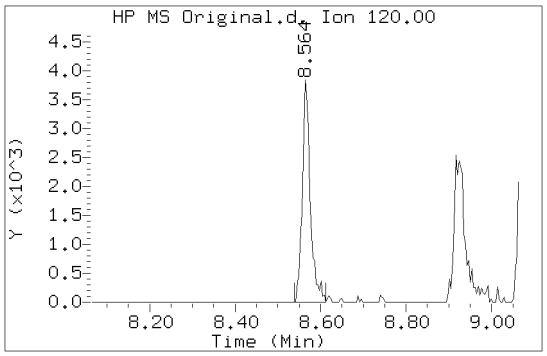
BEFORE
MASS
173
AREA
2332
HEIGHT
1581
12-Aug-2023
22:44



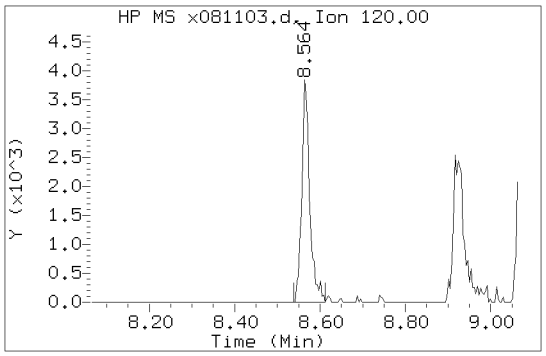
AFTER
MASS
105
AREA
16385
HEIGHT
13126
23-Aug-2023
11:12



BEFORE
MASS
175
AREA
1279
HEIGHT
1051
12-Aug-2023
22:44



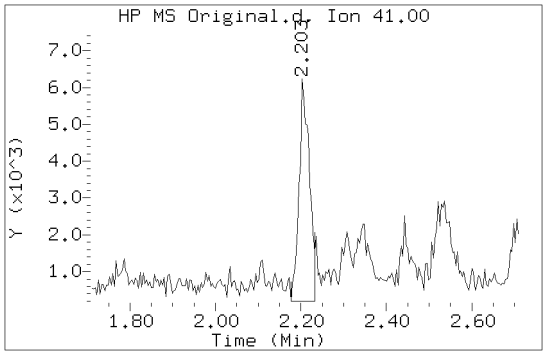
AFTER
MASS
120
AREA
5147
HEIGHT
3841
23-Aug-2023
11:12



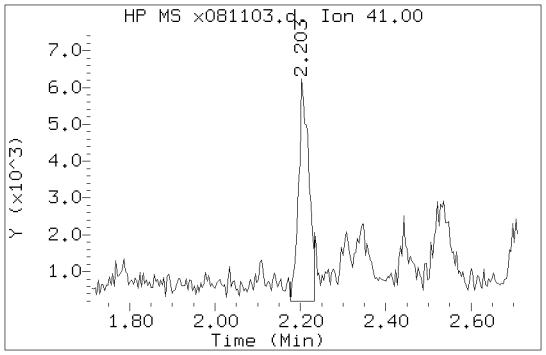
Allyl Chloride (107-05-1)

Reason Code:

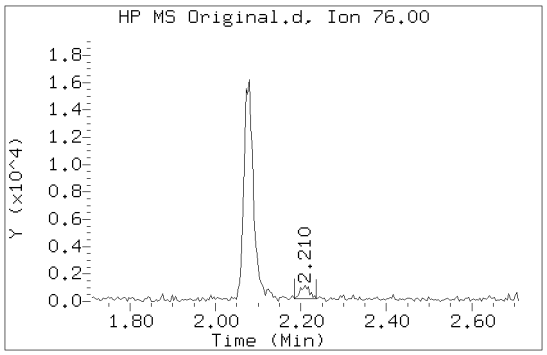
BEFORE
MASS
105
AREA
16385
HEIGHT
13126
12-Aug-2023
22:44



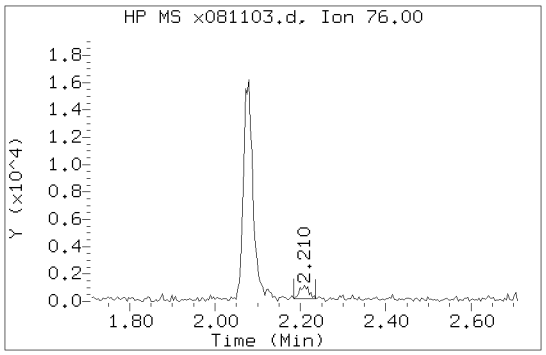
AFTER
MASS
41
AREA
10300
HEIGHT
6035
23-Aug-2023
11:12



BEFORE
MASS
120
AREA
5147
HEIGHT
3841
12-Aug-2023
22:44



AFTER
MASS
76
AREA
1547
HEIGHT
1020
23-Aug-2023
11:12



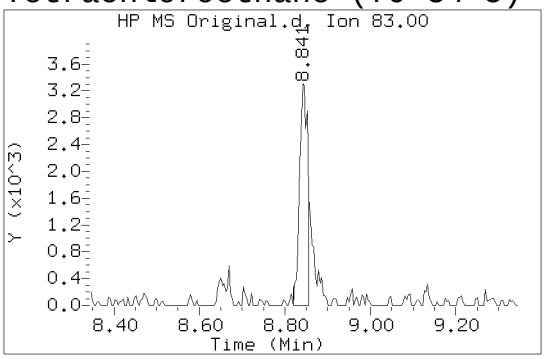
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

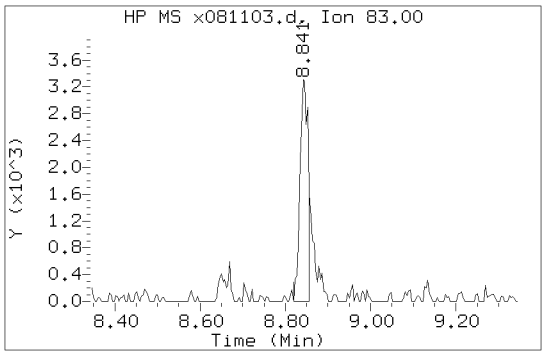
BEFORE

MASS
41
AREA
10300
HEIGHT
6035
12-Aug-2023
22:44



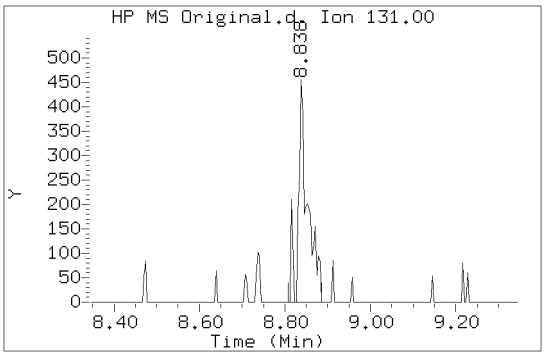
AFTER

MASS
83
AREA
4493
HEIGHT
3308
23-Aug-2023
11:12



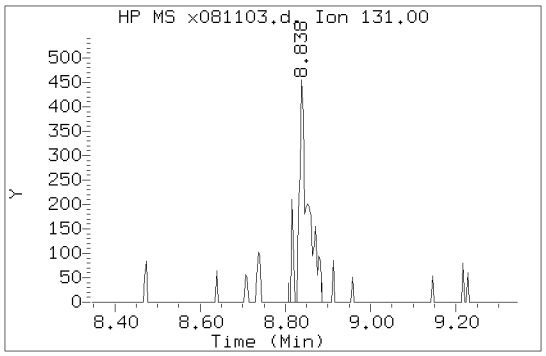
BEFORE

MASS
76
AREA
1547
HEIGHT
1020
12-Aug-2023
22:44



AFTER

MASS
131
AREA
703
HEIGHT
455
23-Aug-2023
11:12

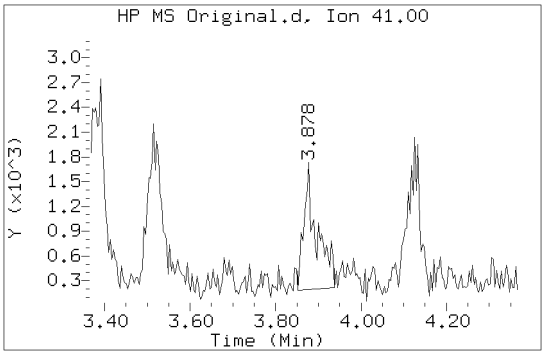


Methacrylonitrile (126-98-7)

Reason Code:

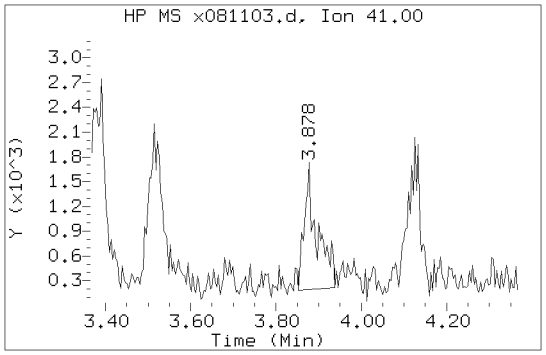
BEFORE

MASS
152
AREA
483591
HEIGHT
348864
12-Aug-2023
22:44



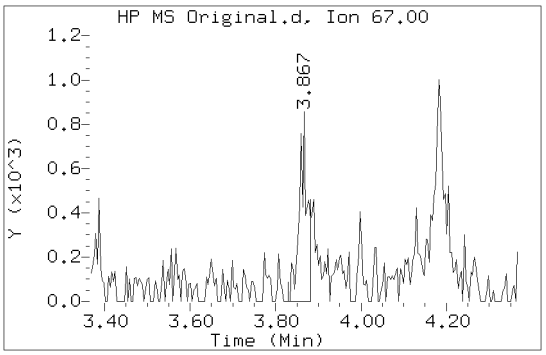
AFTER

MASS
41
AREA
3257
HEIGHT
1536
23-Aug-2023
11:12



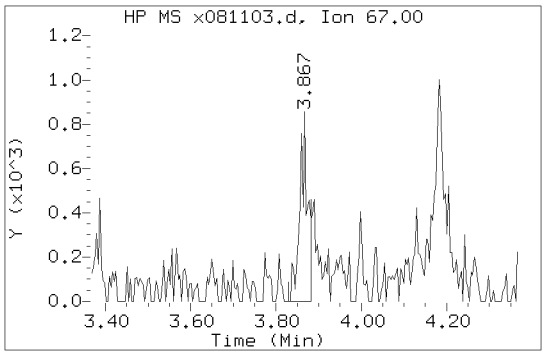
BEFORE

MASS
115
AREA
265296
HEIGHT
192140
12-Aug-2023
22:44



AFTER

MASS
67
AREA
1114
HEIGHT
856
23-Aug-2023
11:12

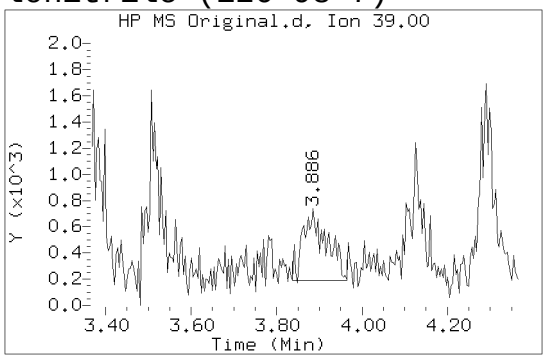


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InstruID : voa6.i
LabSampID : VSTD000.5

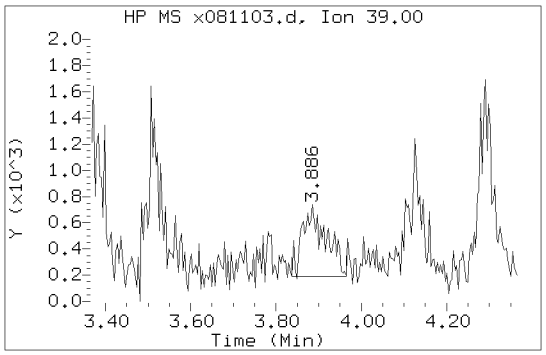
Methacrylonitrile (126-98-7)

Reason Code:

BEFORE
MASS
150
AREA
764733
HEIGHT
545610
12-Aug-2023
22:44



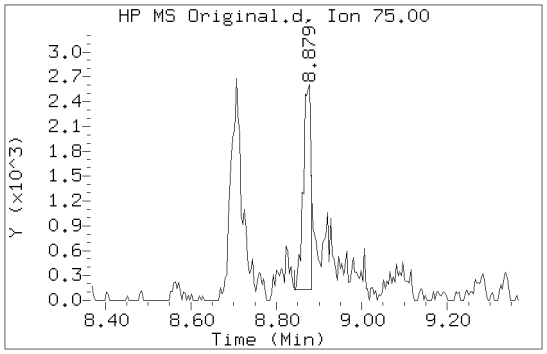
AFTER
MASS
39
AREA
2083
HEIGHT
549
23-Aug-2023
11:12



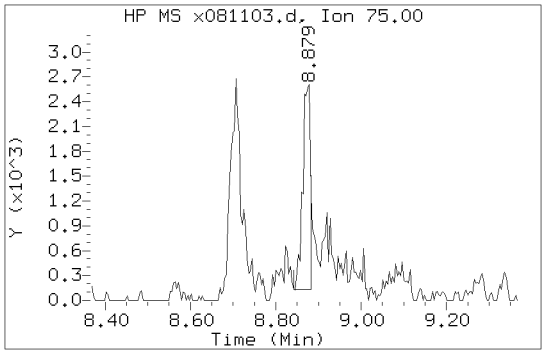
1,2,3-Trichloropropane (96-18-4)

Reason Code:

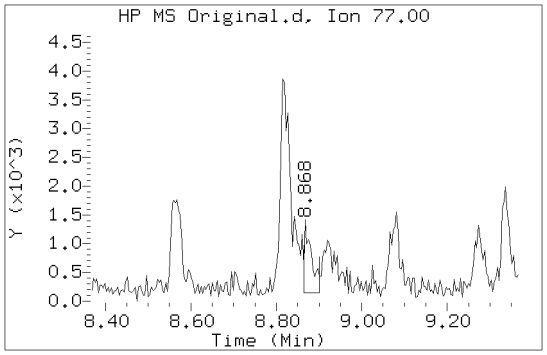
BEFORE
MASS
41
AREA
3257
HEIGHT
1536
12-Aug-2023
22:44



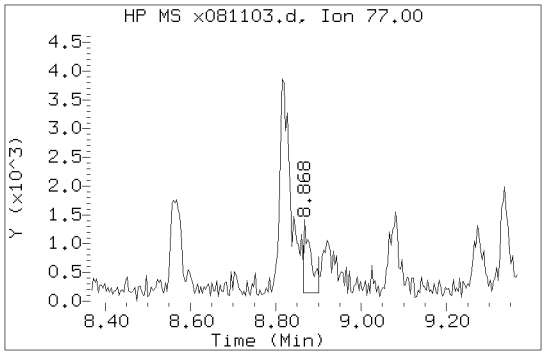
AFTER
MASS
75
AREA
3166
HEIGHT
2481
23-Aug-2023
11:12



BEFORE
MASS
67
AREA
1114
HEIGHT
856
12-Aug-2023
22:44



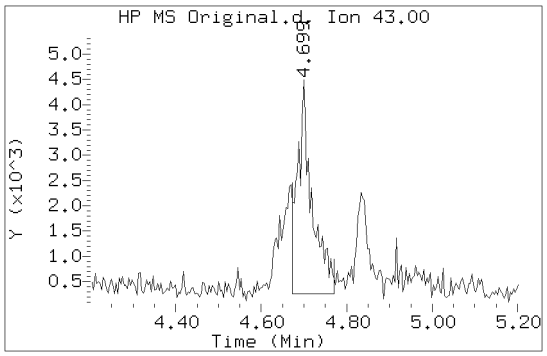
AFTER
MASS
77
AREA
1546
HEIGHT
1276
23-Aug-2023
11:12



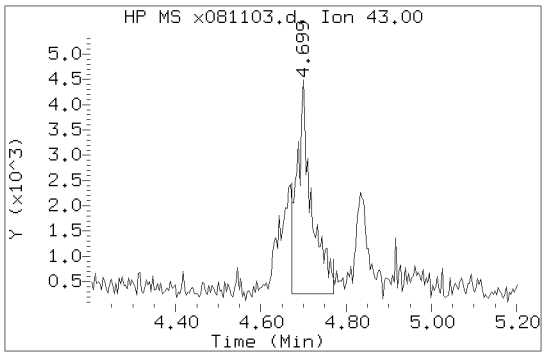
Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE
MASS
75
AREA
3166
HEIGHT
2481
12-Aug-2023
22:44



AFTER
MASS
43
AREA
10205
HEIGHT
4228
23-Aug-2023
11:12



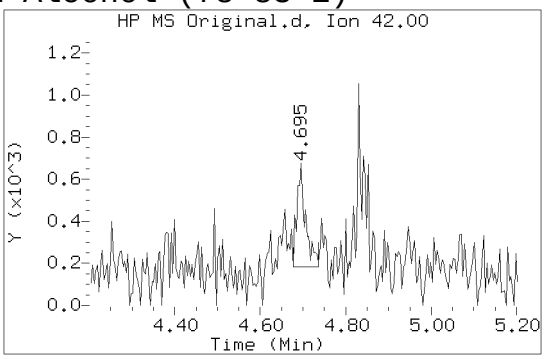
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InstruID : voa6.i
LabSampID : VSTD000.5

Isobutyl Alcohol (78-83-1)

Reason Code:

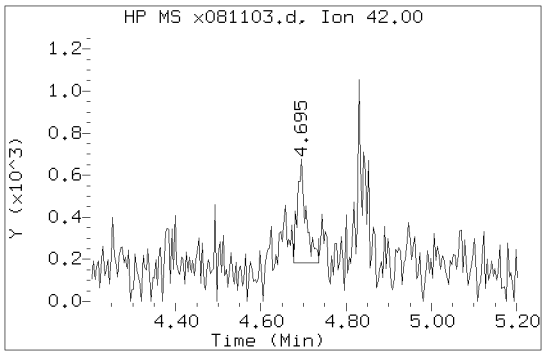
BEFORE

MASS
77
AREA
1546
HEIGHT
1276
12-Aug-2023
22:44



AFTER

MASS
42
AREA
697
HEIGHT
494
23-Aug-2023
11:12

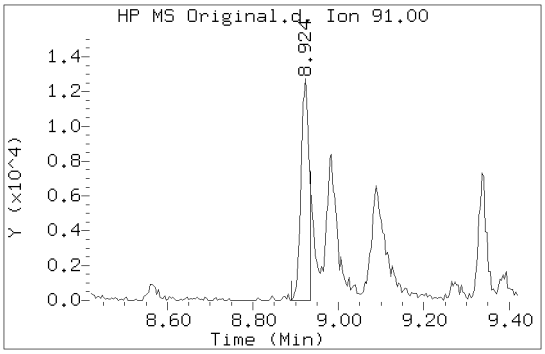


n-Propylbenzene (106-65-1)

Reason Code:

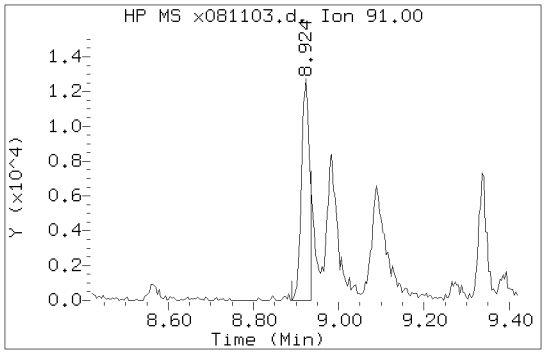
BEFORE

MASS
43
AREA
10205
HEIGHT
4228
12-Aug-2023
22:44



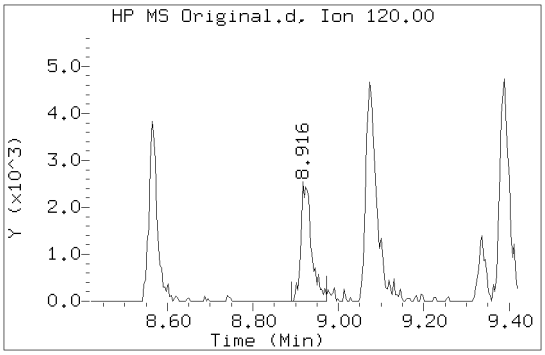
AFTER

MASS
91
AREA
17092
HEIGHT
12741
23-Aug-2023
11:12



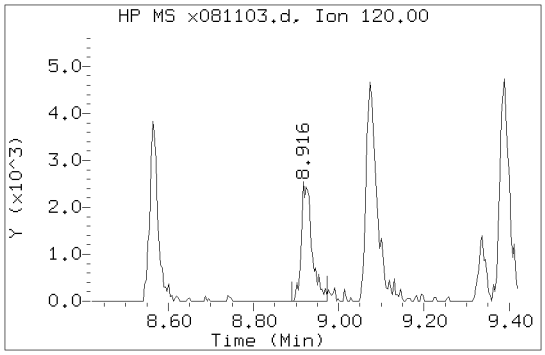
BEFORE

MASS
42
AREA
697
HEIGHT
494
12-Aug-2023
22:44



AFTER

MASS
120
AREA
4506
HEIGHT
2542
23-Aug-2023
11:12

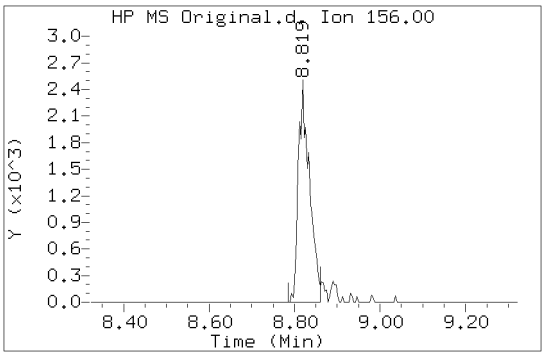


Bromobenzene (108-86-1)

Reason Code:

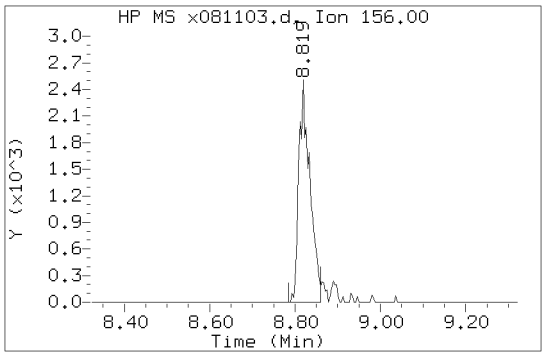
BEFORE

MASS
91
AREA
17092
HEIGHT
12741
12-Aug-2023
22:44



AFTER

MASS
156
AREA
4612
HEIGHT
2508
23-Aug-2023
11:12

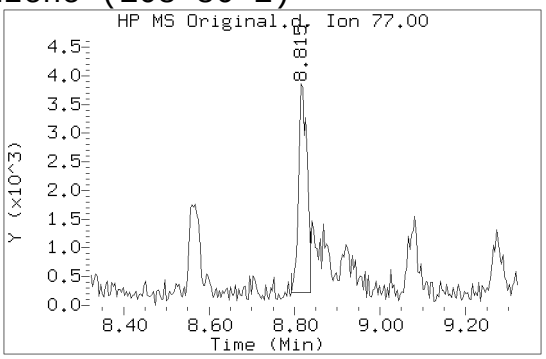


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InstruID : voa6.i
LabSampID : VSTD000.5

Bromobenzene (108-86-1)

BEFORE

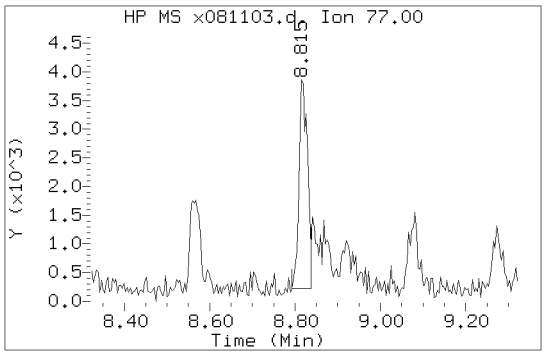
MASS
120
AREA
4506
HEIGHT
2542
12-Aug-2023
22:44



Reason Code:

AFTER

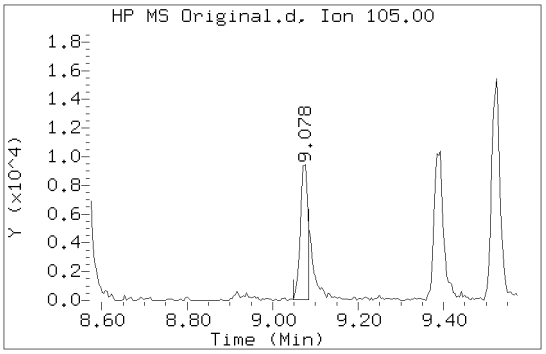
MASS
77
AREA
5162
HEIGHT
3640
23-Aug-2023
11:12



1,3,5-Trimethylbenzene (108-67-8)

BEFORE

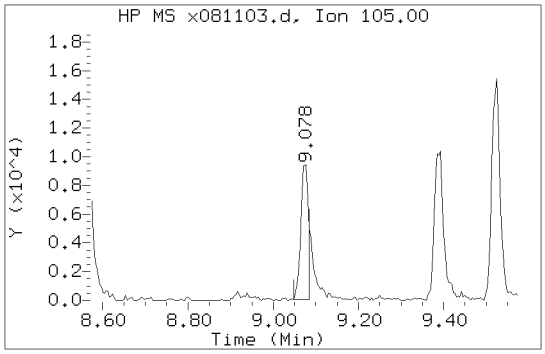
MASS
156
AREA
4612
HEIGHT
2508
12-Aug-2023
22:44



Reason Code:

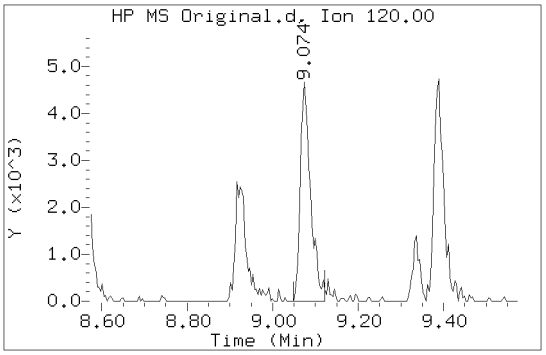
AFTER

MASS
105
AREA
12006
HEIGHT
9424
23-Aug-2023
11:12



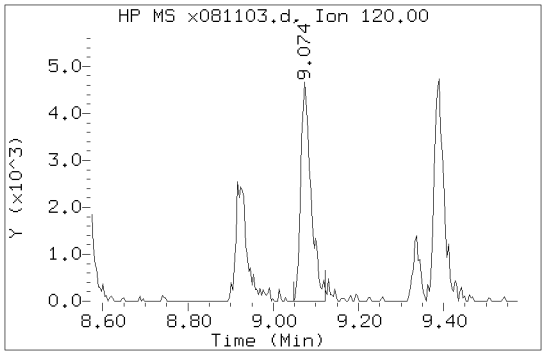
BEFORE

MASS
77
AREA
5162
HEIGHT
3640
12-Aug-2023
22:44



AFTER

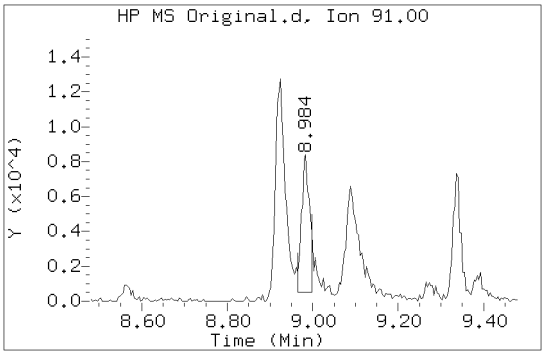
MASS
120
AREA
8039
HEIGHT
4663
23-Aug-2023
11:12



2-Chlorotoluene (95-49-8)

BEFORE

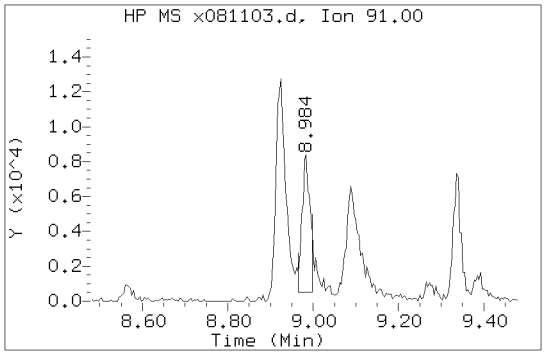
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105
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12006
HEIGHT
9424
12-Aug-2023
22:44



Reason Code:

AFTER

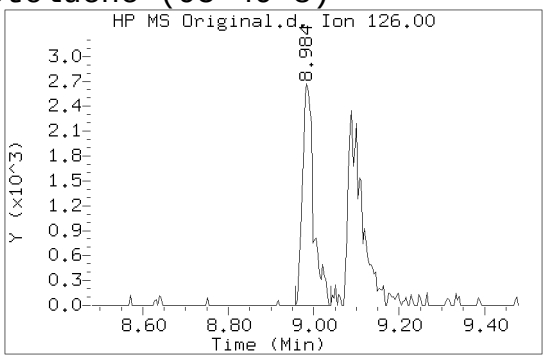
MASS
91
AREA
10667
HEIGHT
7878
23-Aug-2023
11:12



Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

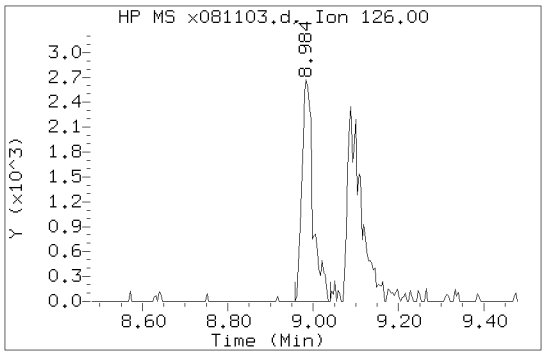
2-Chlorotoluene (95-49-8)

BEFORE
MASS
120
AREA
8039
HEIGHT
4663
12-Aug-2023
22:44



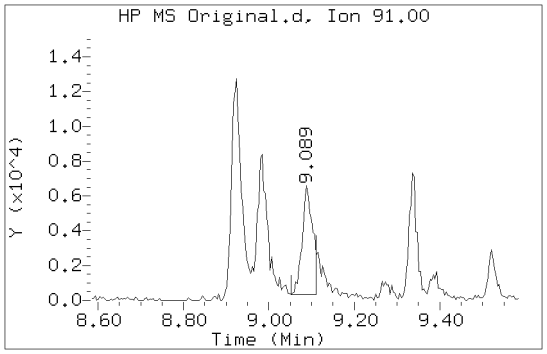
Reason Code:

AFTER
MASS
126
AREA
4942
HEIGHT
2672
23-Aug-2023
11:12



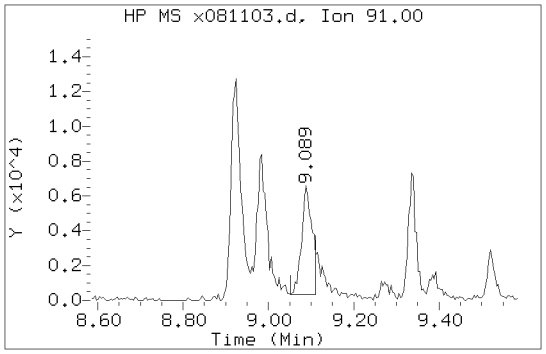
4-Chlorotoluene (106-43-4)

BEFORE
MASS
91
AREA
10667
HEIGHT
7878
12-Aug-2023
22:44

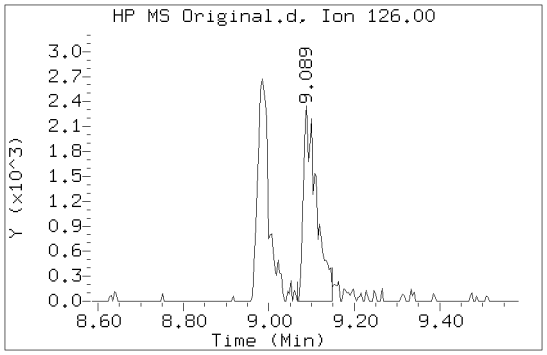


Reason Code:

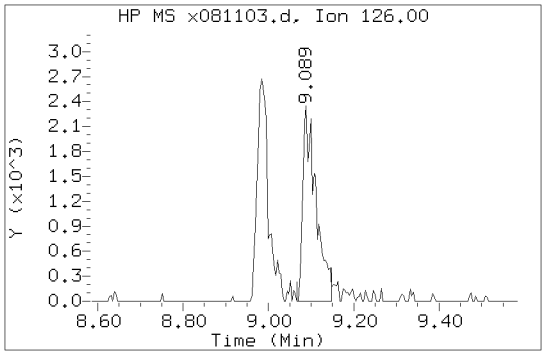
AFTER
MASS
91
AREA
10970
HEIGHT
6277
23-Aug-2023
11:12



BEFORE
MASS
126
AREA
4942
HEIGHT
2672
12-Aug-2023
22:44

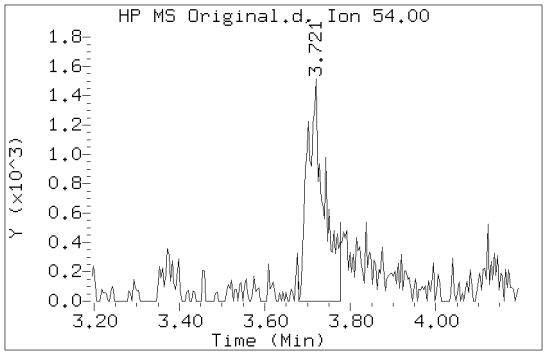


AFTER
MASS
126
AREA
5099
HEIGHT
2349
23-Aug-2023
11:12



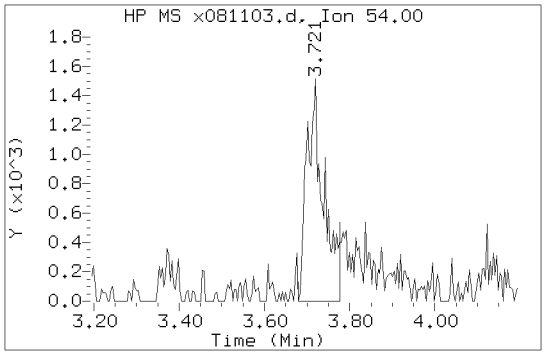
Propionitrile (107-12-0)

BEFORE
MASS
91
AREA
10970
HEIGHT
6277
12-Aug-2023
22:44



Reason Code:

AFTER
MASS
54
AREA
4117
HEIGHT
1515
23-Aug-2023
11:12



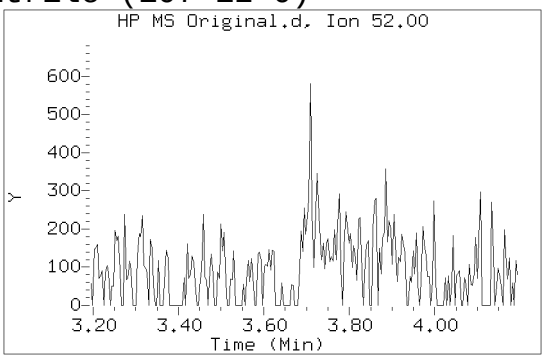
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)

Reason Code:

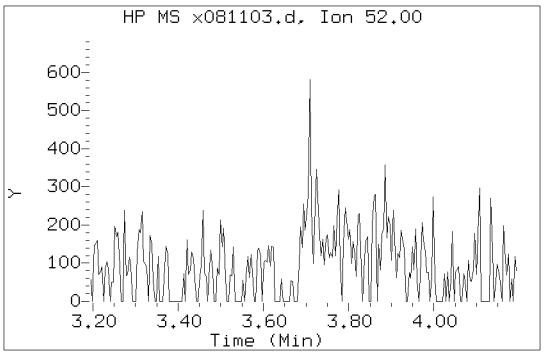
BEFORE

MASS
126
AREA
5099
HEIGHT
2349
12-Aug-2023
22:44



AFTER

MASS
52
AREA
0
HEIGHT
0
23-Aug-2023
11:12

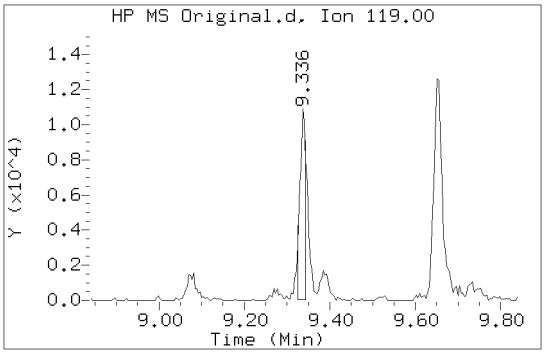


tert-Butylbenzene (98-06-6)

Reason Code:

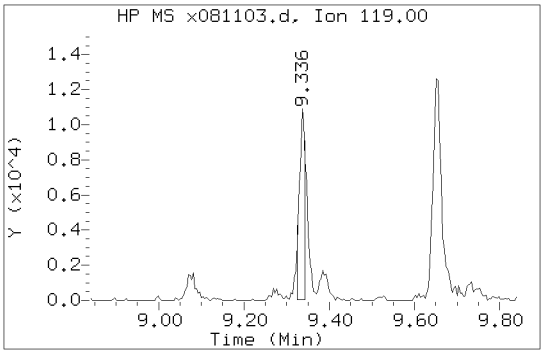
BEFORE

MASS
54
AREA
4117
HEIGHT
1515
12-Aug-2023
22:44



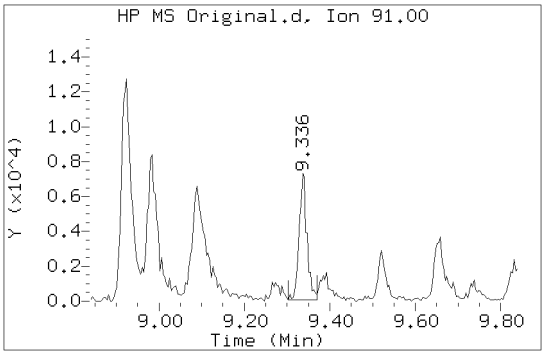
AFTER

MASS
119
AREA
10385
HEIGHT
10865
23-Aug-2023
11:12



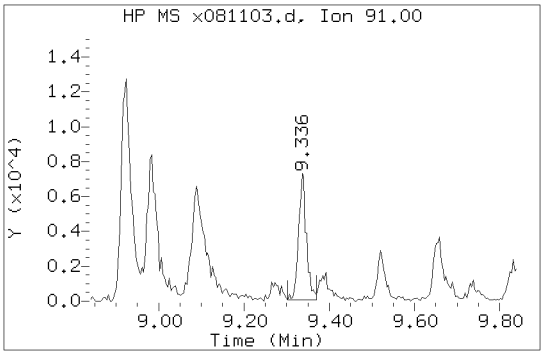
BEFORE

MASS
52
AREA
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HEIGHT
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12-Aug-2023
22:44



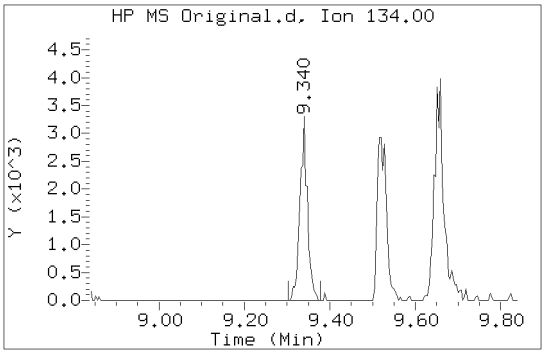
AFTER

MASS
91
AREA
9489
HEIGHT
7277
23-Aug-2023
11:12



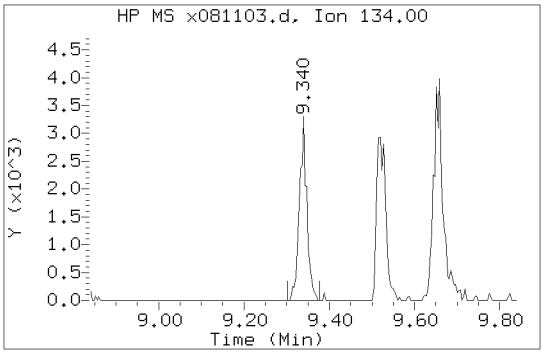
BEFORE

MASS
55
AREA
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HEIGHT
0
12-Aug-2023
22:44



AFTER

MASS
134
AREA
4093
HEIGHT
3299
23-Aug-2023
11:12



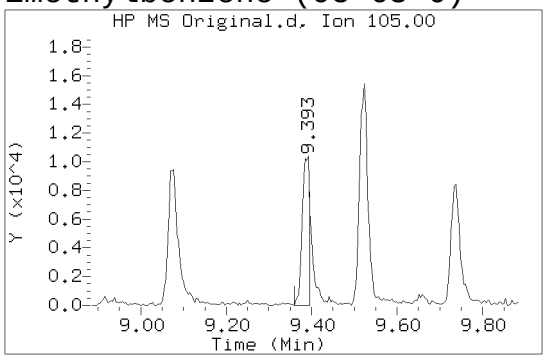
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

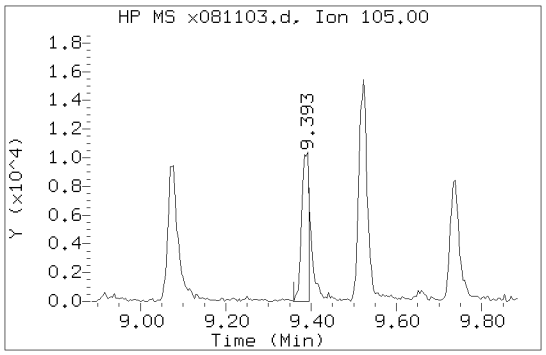
BEFORE

MASS
119
AREA
10385
HEIGHT
10865
12-Aug-2023
22:44



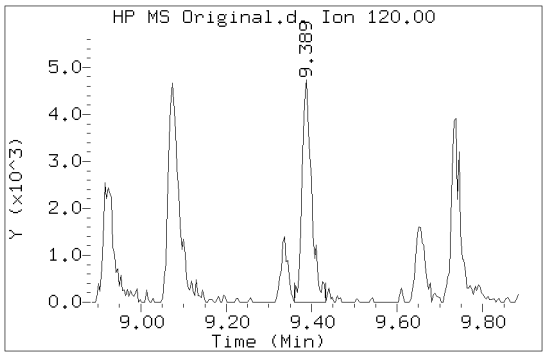
AFTER

MASS
105
AREA
12812
HEIGHT
10393
23-Aug-2023
11:12



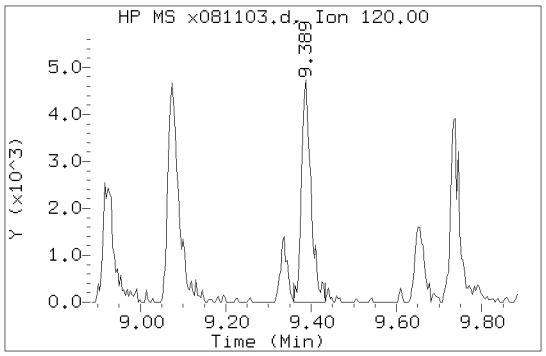
BEFORE

MASS
91
AREA
9489
HEIGHT
7277
12-Aug-2023
22:44



AFTER

MASS
120
AREA
7493
HEIGHT
4736
23-Aug-2023
11:12

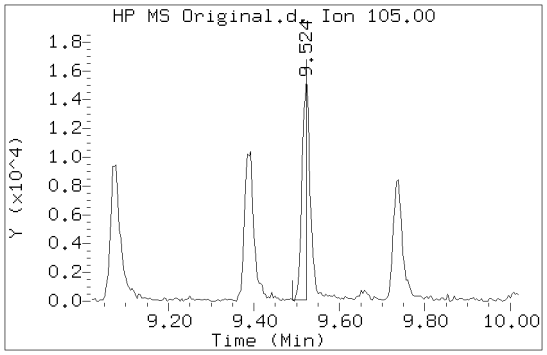


sec-Butylbenzene (135-98-8)

Reason Code:

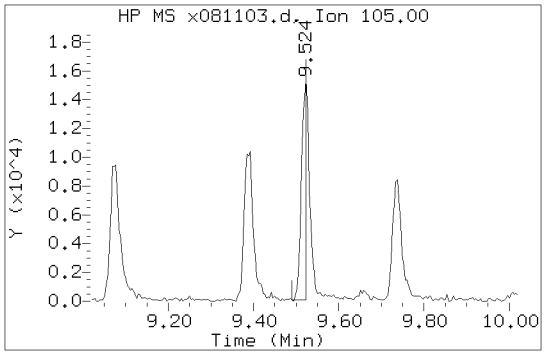
BEFORE

MASS
105
AREA
12812
HEIGHT
10393
12-Aug-2023
22:44



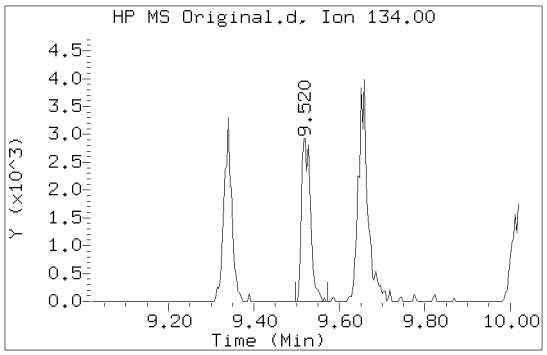
AFTER

MASS
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AREA
13358
HEIGHT
15342
23-Aug-2023
11:12



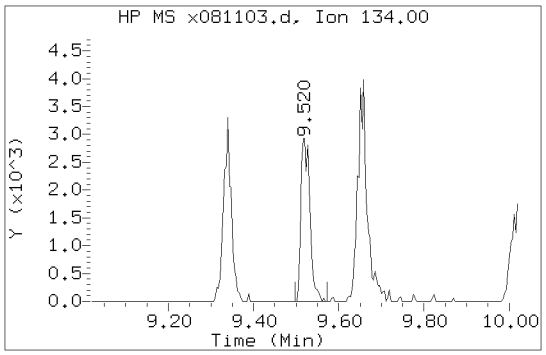
BEFORE

MASS
120
AREA
7493
HEIGHT
4736
12-Aug-2023
22:44



AFTER

MASS
134
AREA
4422
HEIGHT
2927
23-Aug-2023
11:12

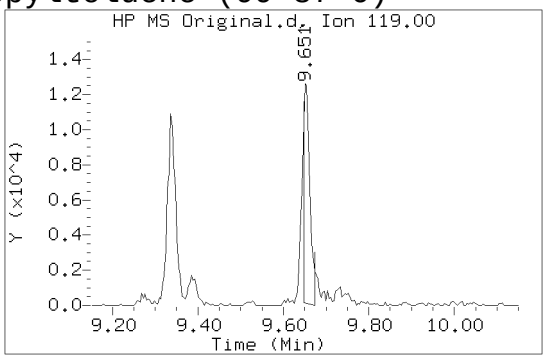


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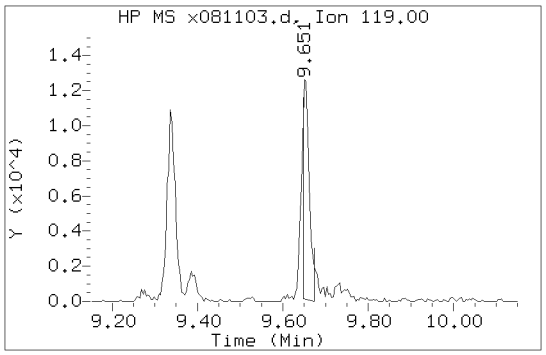
p-Isopropyltoluene (99-87-6)

Reason Code:

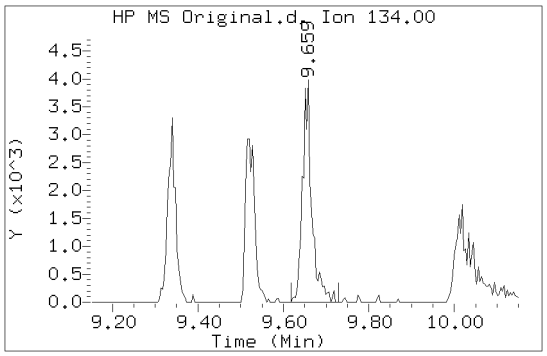
BEFORE
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AREA
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HEIGHT
1642
12-Aug-2023
22:44



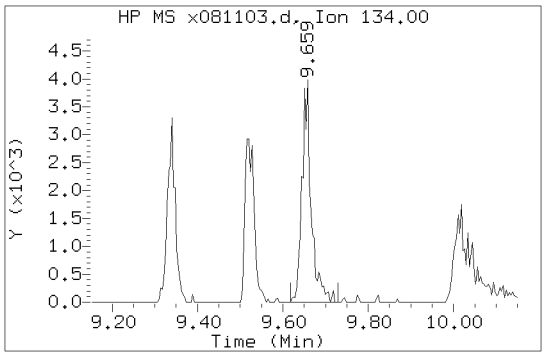
AFTER
MASS
119
AREA
13394
HEIGHT
12490
23-Aug-2023
11:12



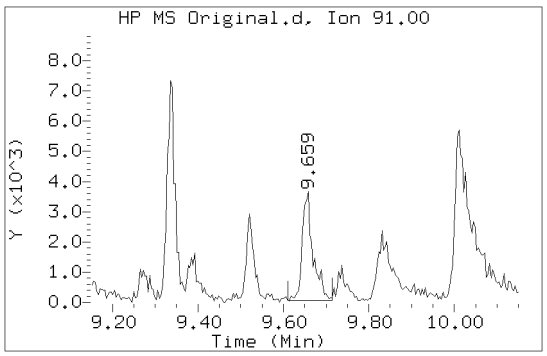
BEFORE
MASS
69
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1589
HEIGHT
895
12-Aug-2023
22:44



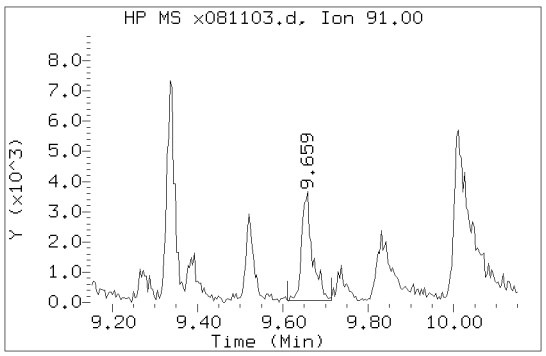
AFTER
MASS
134
AREA
6077
HEIGHT
3982
23-Aug-2023
11:12



BEFORE
MASS
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AREA
846
HEIGHT
598
12-Aug-2023
22:44



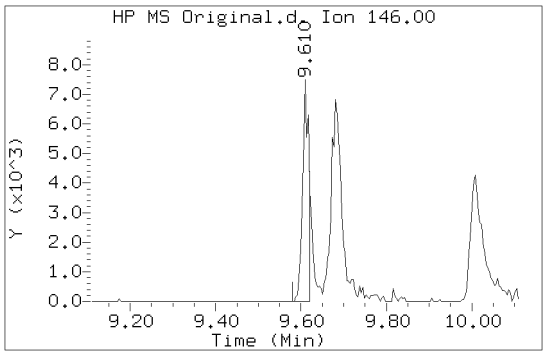
AFTER
MASS
91
AREA
6454
HEIGHT
3607
23-Aug-2023
11:12



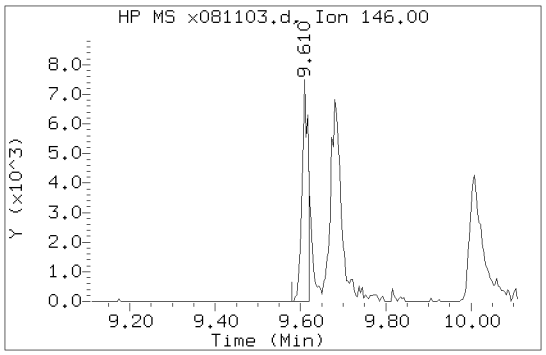
1,3-Dichlorobenzene (541-73-1)

Reason Code:

BEFORE
MASS
119
AREA
13394
HEIGHT
12490
12-Aug-2023
22:44



AFTER
MASS
146
AREA
7795
HEIGHT
7495
23-Aug-2023
11:12

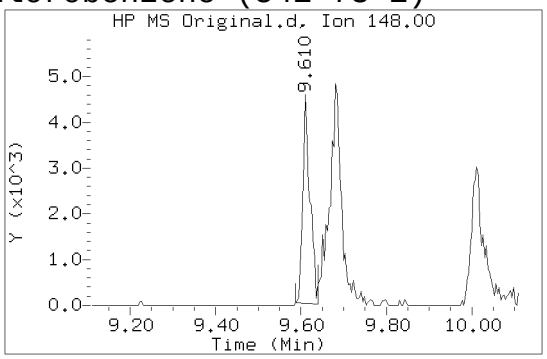


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InstruID : voa6.i
LabSampID : VSTD000.5

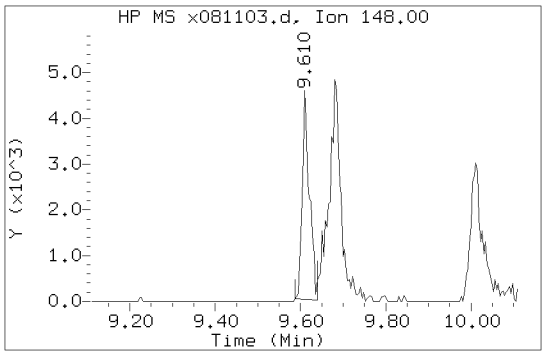
1,3-Dichlorobenzene (541-73-1)

Reason Code:

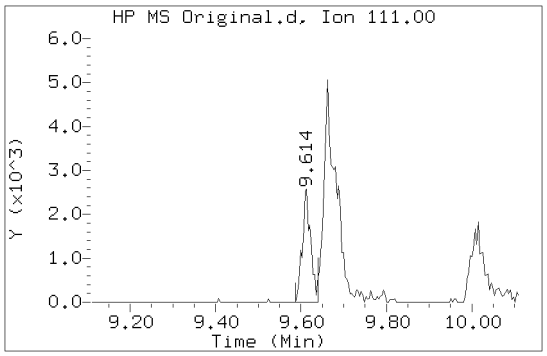
BEFORE
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AREA
6077
HEIGHT
3982
12-Aug-2023
22:44



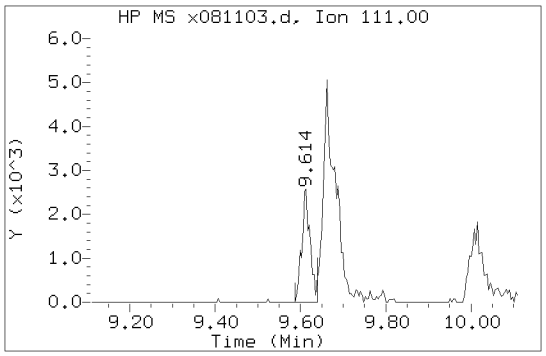
AFTER
MASS
148
AREA
5529
HEIGHT
4571
23-Aug-2023
11:12



BEFORE
MASS
91
AREA
6454
HEIGHT
3607
12-Aug-2023
22:44



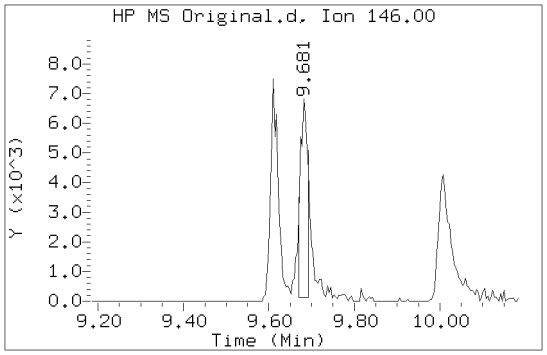
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MASS
111
AREA
3654
HEIGHT
2574
23-Aug-2023
11:12



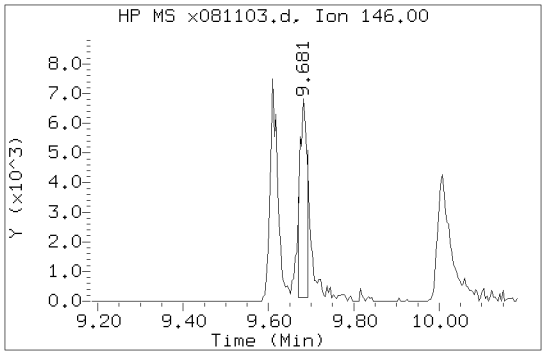
1,4-Dichlorobenzene (106-46-7)

Reason Code:

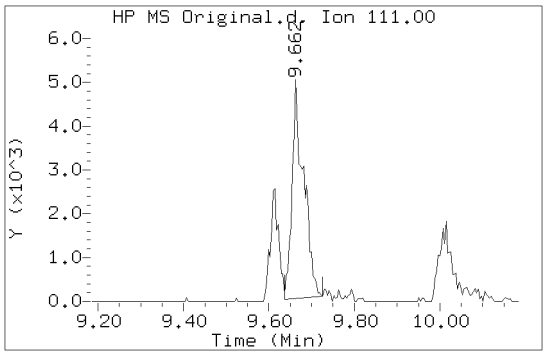
BEFORE
MASS
146
AREA
7795
HEIGHT
7495
12-Aug-2023
22:44



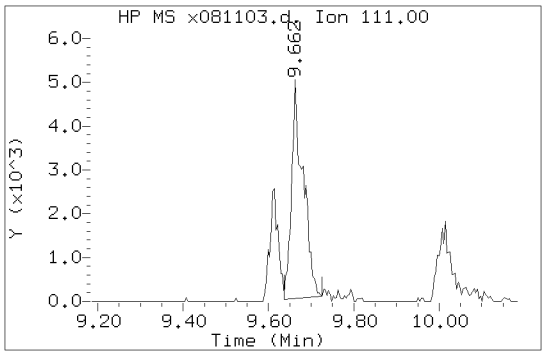
AFTER
MASS
146
AREA
8042
HEIGHT
6690
23-Aug-2023
11:12



BEFORE
MASS
148
AREA
5529
HEIGHT
4571
12-Aug-2023
22:44



AFTER
MASS
111
AREA
9494
HEIGHT
4997
23-Aug-2023
11:12

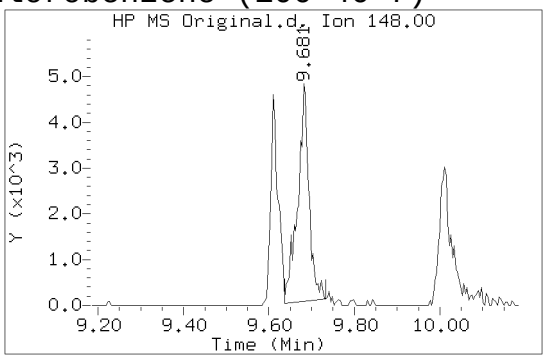


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InstruID : voa6.i
LabSampID : VSTD000.5

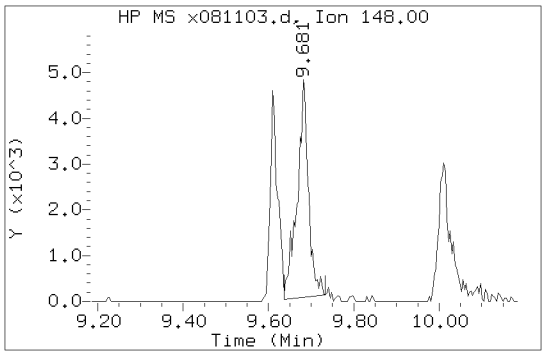
1,4-Dichlorobenzene (106-46-7)

Reason Code:

BEFORE
MASS
111
AREA
3654
HEIGHT
2574
12-Aug-2023
22:44



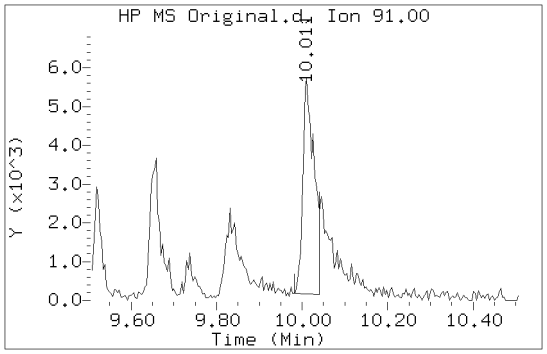
AFTER
MASS
148
AREA
8948
HEIGHT
4758
23-Aug-2023
11:12



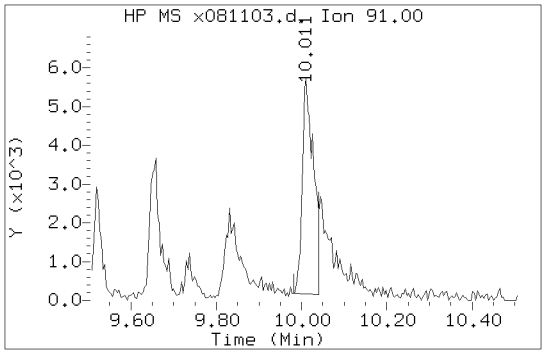
n-Butylbenzene (104-51-8)

Reason Code:

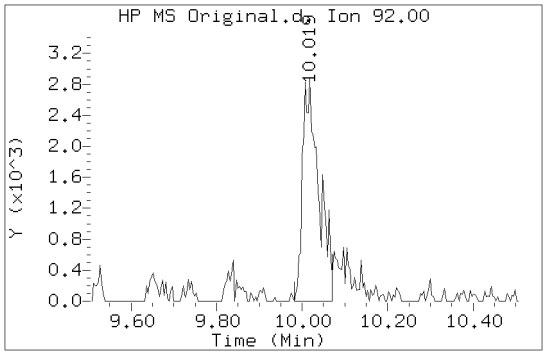
BEFORE
MASS
91
AREA
10518
HEIGHT
5560
12-Aug-2023
22:44



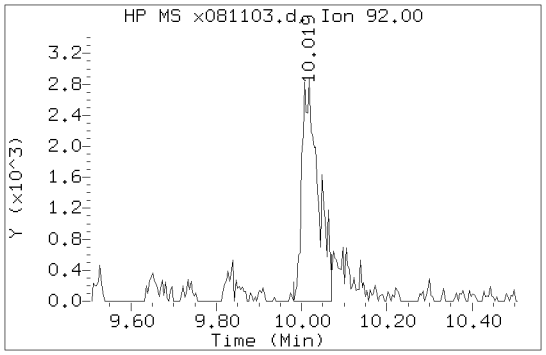
AFTER
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91
AREA
10518
HEIGHT
5560
23-Aug-2023
11:12



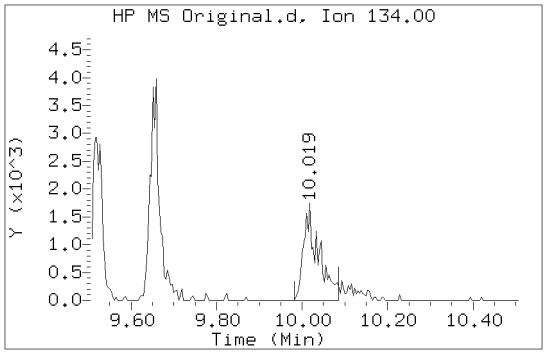
BEFORE
MASS
92
AREA
7722
HEIGHT
2870
12-Aug-2023
22:44



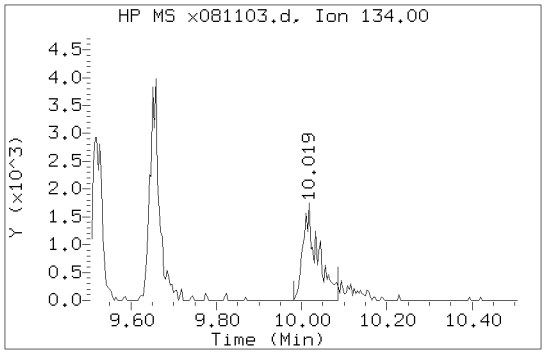
AFTER
MASS
92
AREA
7722
HEIGHT
2870
23-Aug-2023
11:12



BEFORE
MASS
134
AREA
4266
HEIGHT
1745
12-Aug-2023
22:44



AFTER
MASS
134
AREA
4266
HEIGHT
1745
23-Aug-2023
11:12

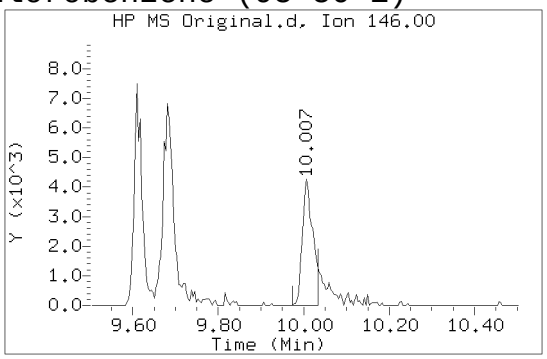


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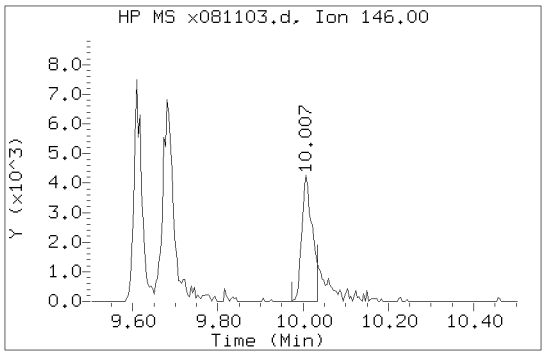
1,2-Dichlorobenzene (95-50-1)

Reason Code:

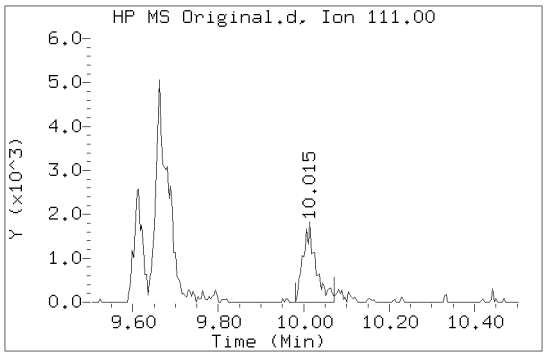
BEFORE
MASS
146
AREA
7410
HEIGHT
4267
12-Aug-2023
22:44



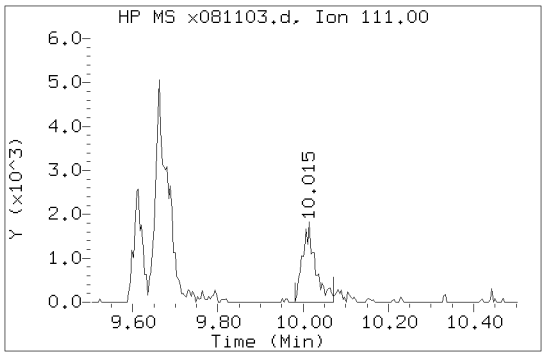
AFTER
MASS
146
AREA
7410
HEIGHT
4267
23-Aug-2023
11:12



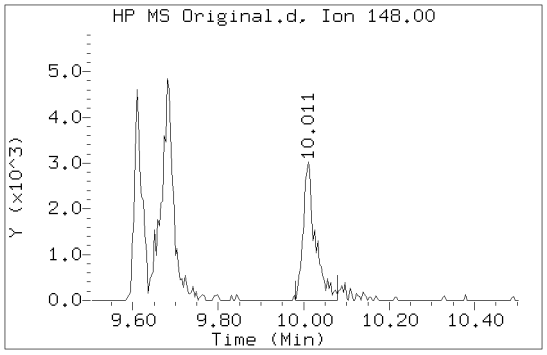
BEFORE
MASS
111
AREA
3878
HEIGHT
1827
12-Aug-2023
22:44



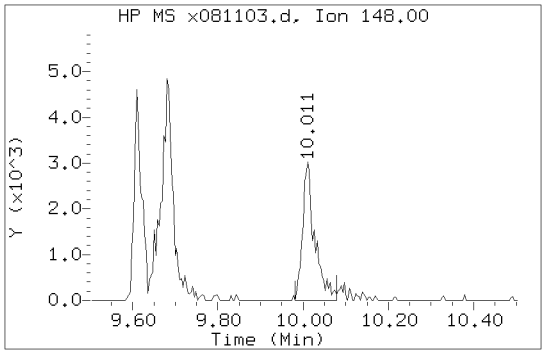
AFTER
MASS
111
AREA
3878
HEIGHT
1827
23-Aug-2023
11:12



BEFORE
MASS
148
AREA
6094
HEIGHT
3030
12-Aug-2023
22:44



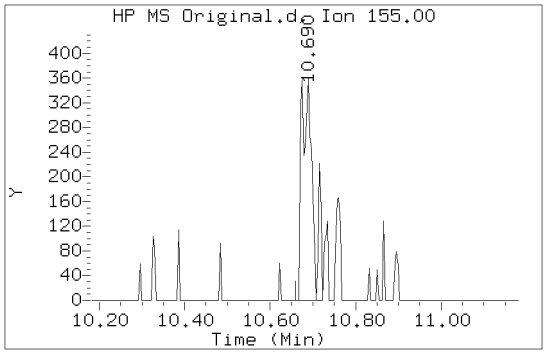
AFTER
MASS
148
AREA
6094
HEIGHT
3030
23-Aug-2023
11:12



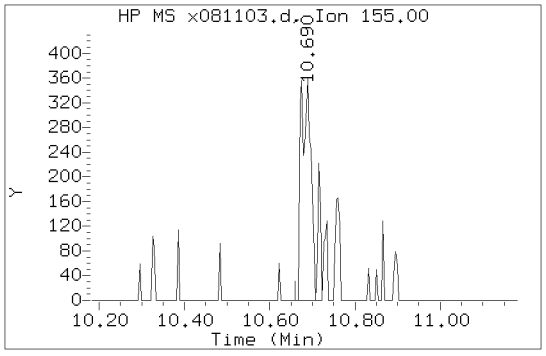
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

BEFORE
MASS
155
AREA
676
HEIGHT
359
12-Aug-2023
22:44



AFTER
MASS
155
AREA
676
HEIGHT
359
23-Aug-2023
11:12

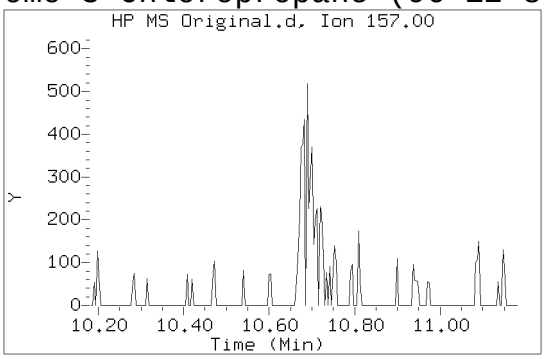


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InstruID : voa6.i
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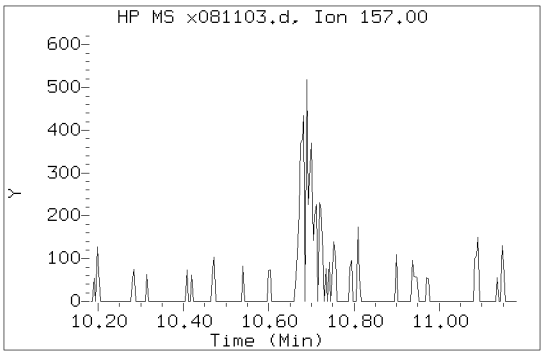
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

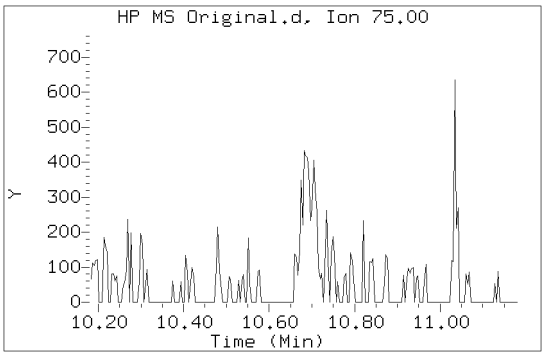
BEFORE
MASS
157
AREA
0
HEIGHT
0
12-Aug-2023
22:44



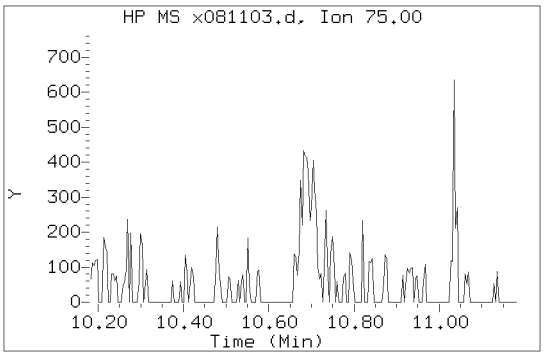
AFTER
MASS
157
AREA
0
HEIGHT
0
23-Aug-2023
11:12



BEFORE
MASS
75
AREA
0
HEIGHT
0
12-Aug-2023
22:44



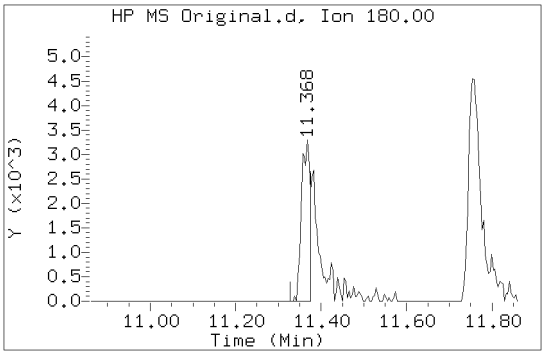
AFTER
MASS
75
AREA
0
HEIGHT
0
23-Aug-2023
11:12



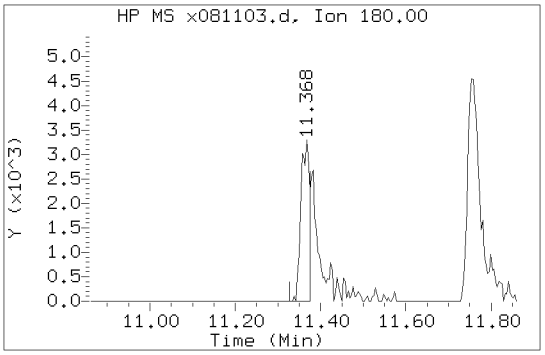
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

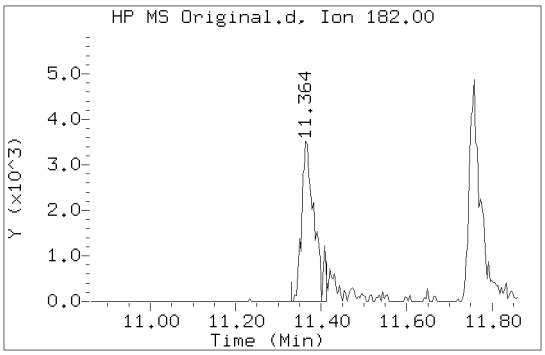
BEFORE
MASS
180
AREA
4663
HEIGHT
3304
12-Aug-2023
22:44



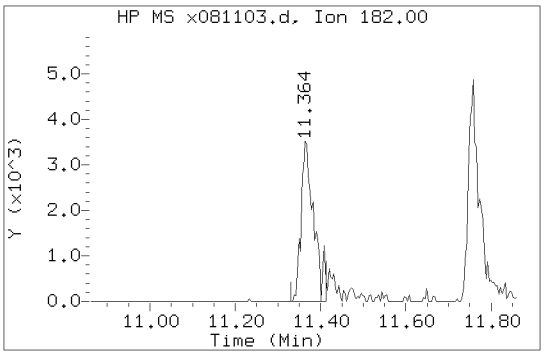
AFTER
MASS
180
AREA
4663
HEIGHT
3304
23-Aug-2023
11:12



BEFORE
MASS
182
AREA
7442
HEIGHT
3523
12-Aug-2023
22:44



AFTER
MASS
182
AREA
7442
HEIGHT
3523
23-Aug-2023
11:12

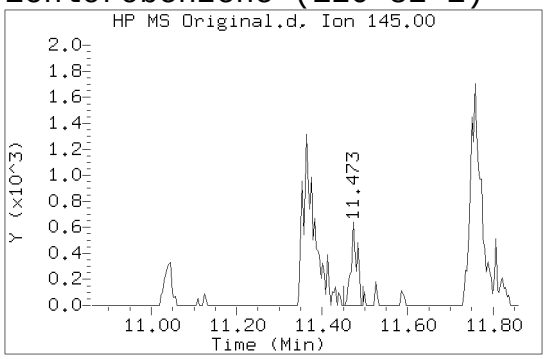


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LabSampID : VSTD000.5

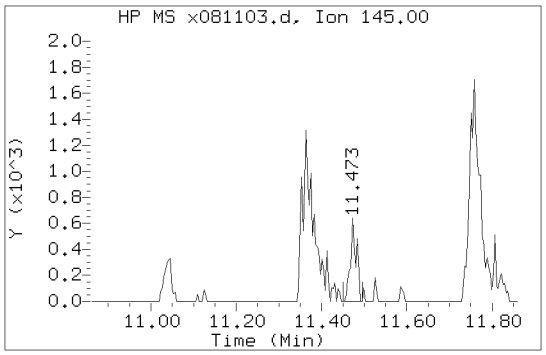
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE
MASS
145
AREA
624
HEIGHT
639
12-Aug-2023
22:44



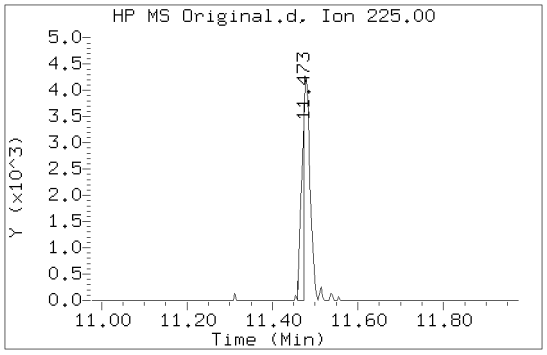
AFTER
MASS
145
AREA
624
HEIGHT
639
23-Aug-2023
11:12



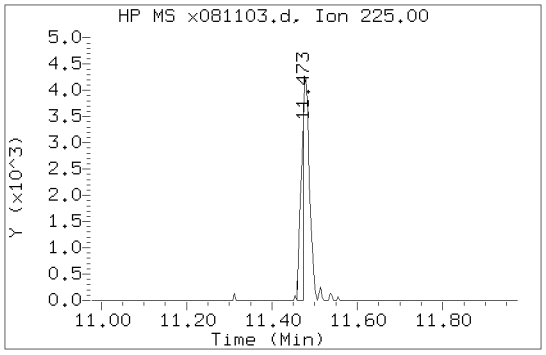
Hexachlorobutadiene (87-68-3)

Reason Code:

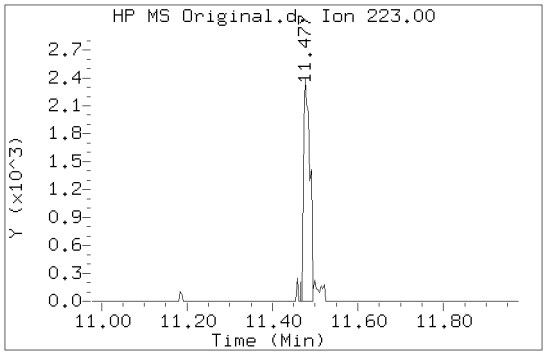
BEFORE
MASS
225
AREA
1914
HEIGHT
3388
12-Aug-2023
22:44



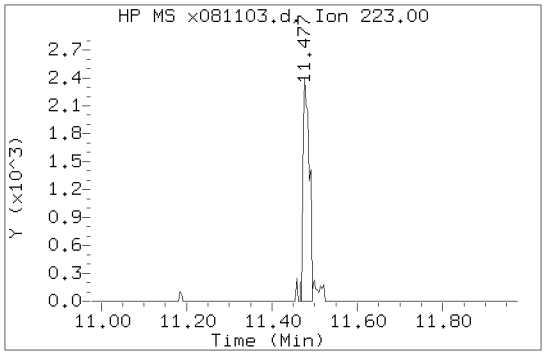
AFTER
MASS
225
AREA
1914
HEIGHT
3388
23-Aug-2023
11:12



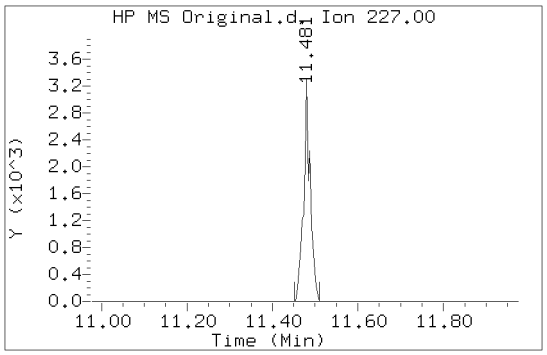
BEFORE
MASS
223
AREA
2534
HEIGHT
2389
12-Aug-2023
22:44



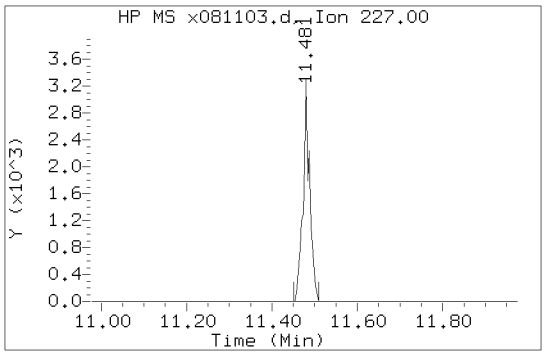
AFTER
MASS
223
AREA
2534
HEIGHT
2389
23-Aug-2023
11:12



BEFORE
MASS
227
AREA
3607
HEIGHT
3296
12-Aug-2023
22:44



AFTER
MASS
227
AREA
3607
HEIGHT
3296
23-Aug-2023
11:12



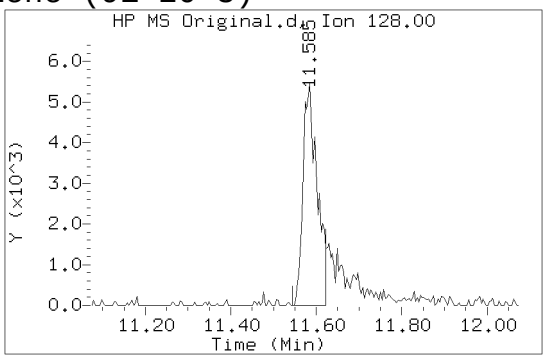
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LabSampID : VSTD000.5

Naphthalene (91-20-3)

Reason Code:

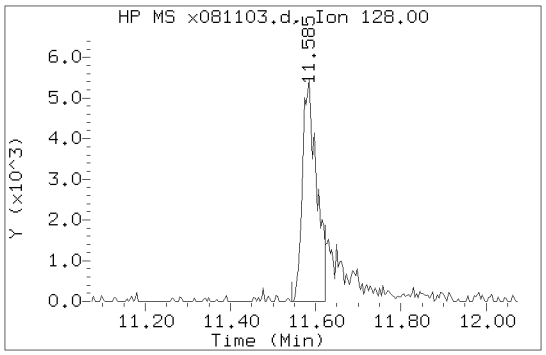
BEFORE

MASS
128
AREA
12804
HEIGHT
5450
12-Aug-2023
22:44



AFTER

MASS
128
AREA
12804
HEIGHT
5450
23-Aug-2023
11:12

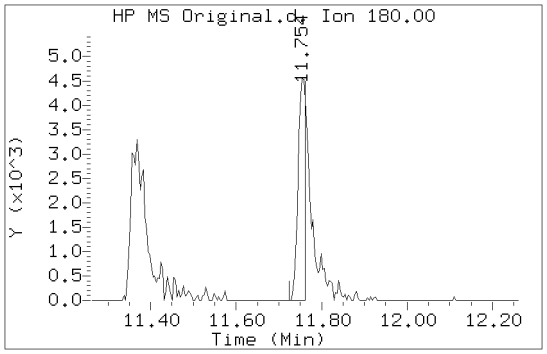


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

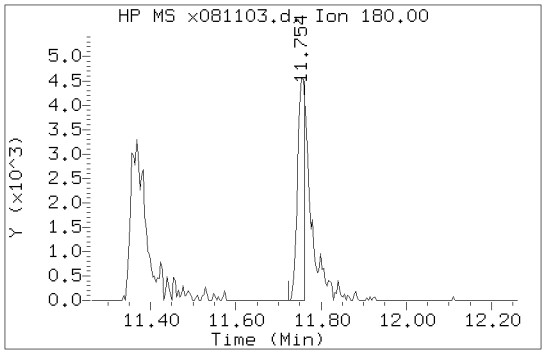
BEFORE

MASS
180
AREA
5452
HEIGHT
4544
12-Aug-2023
22:44



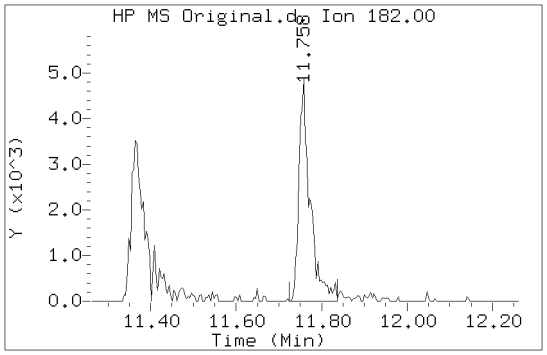
AFTER

MASS
180
AREA
5452
HEIGHT
4544
23-Aug-2023
11:12



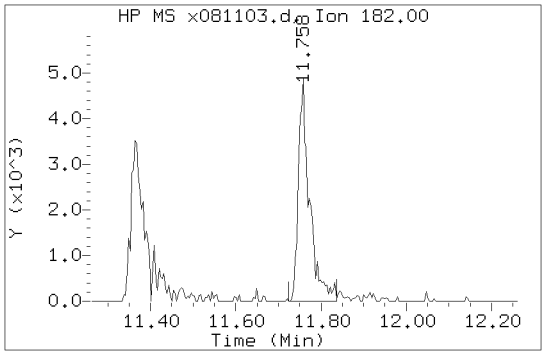
BEFORE

MASS
182
AREA
8964
HEIGHT
4871
12-Aug-2023
22:44



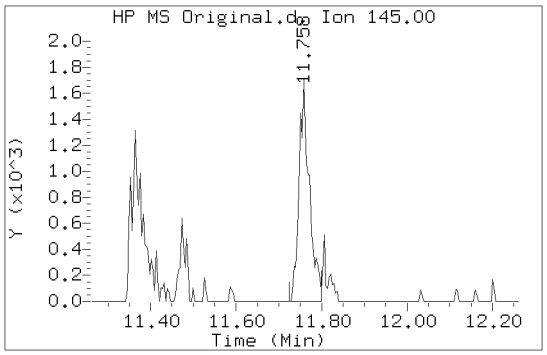
AFTER

MASS
182
AREA
8964
HEIGHT
4871
23-Aug-2023
11:12



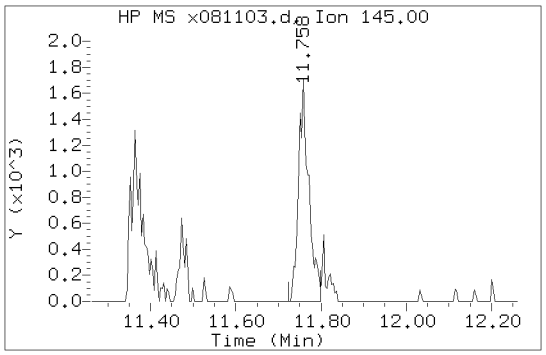
BEFORE

MASS
145
AREA
2897
HEIGHT
1705
12-Aug-2023
22:44



AFTER

MASS
145
AREA
2897
HEIGHT
1705
23-Aug-2023
11:12

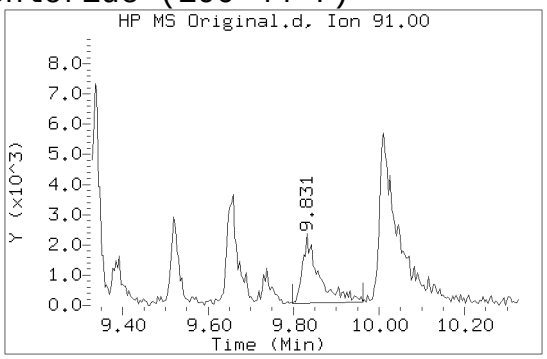


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InstruID : voa6.i
LabSampID : VSTD000.5

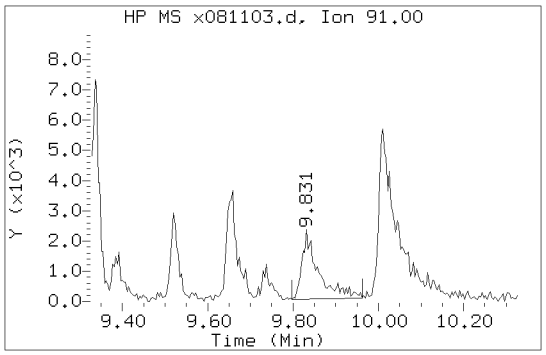
Benzyl Chloride (100-44-7)

Reason Code:

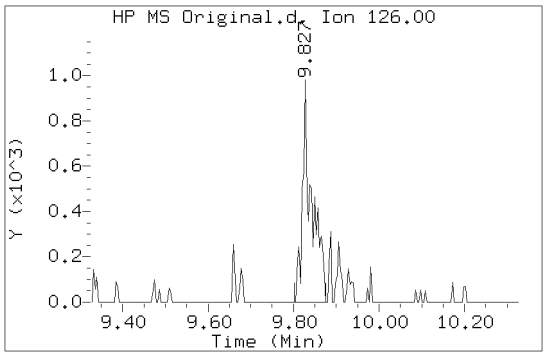
BEFORE
MASS
53
AREA
1260
HEIGHT
536
12-Aug-2023
22:44



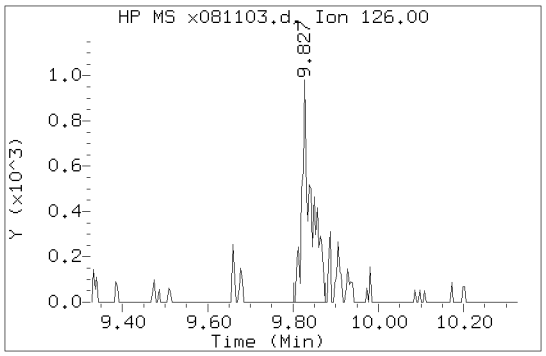
AFTER
MASS
91
AREA
6104
HEIGHT
2311
23-Aug-2023
11:12



BEFORE
MASS
75
AREA
745
HEIGHT
396
12-Aug-2023
22:44



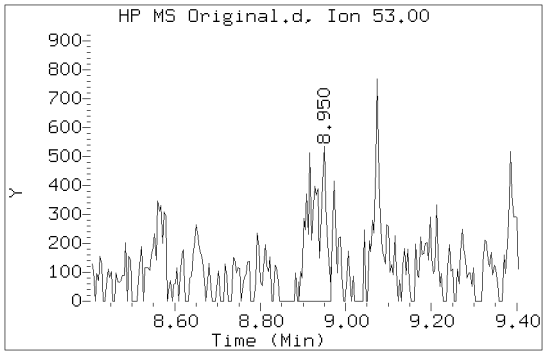
AFTER
MASS
126
AREA
1512
HEIGHT
981
23-Aug-2023
11:12



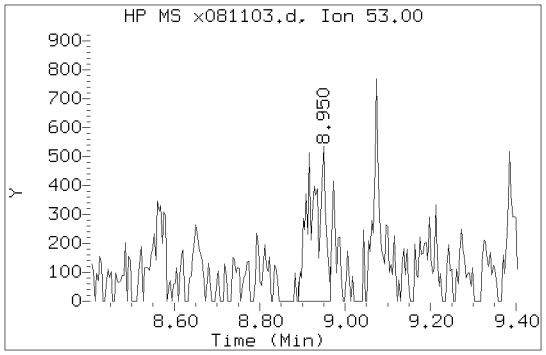
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

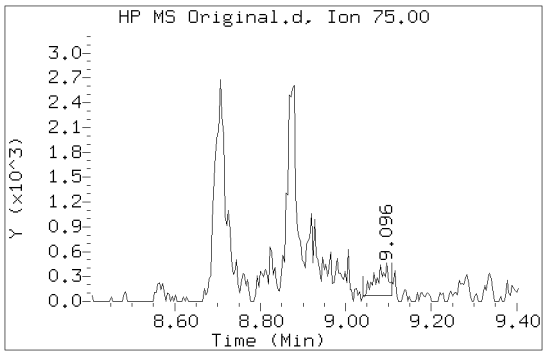
BEFORE
MASS
53
AREA
1459
HEIGHT
1634
12-Aug-2023
22:44



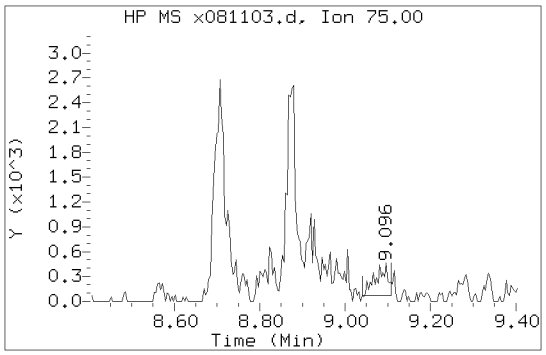
AFTER
MASS
53
AREA
1260
HEIGHT
536
23-Aug-2023
11:12



BEFORE
MASS
88
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER
MASS
75
AREA
745
HEIGHT
396
23-Aug-2023
11:12

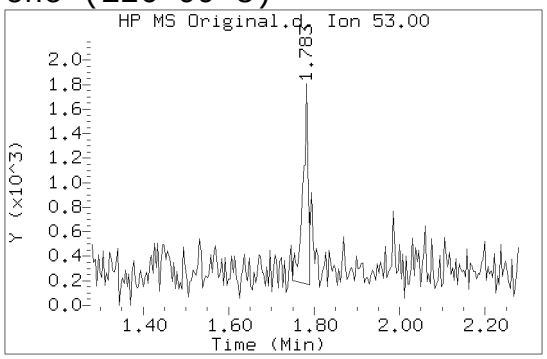


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

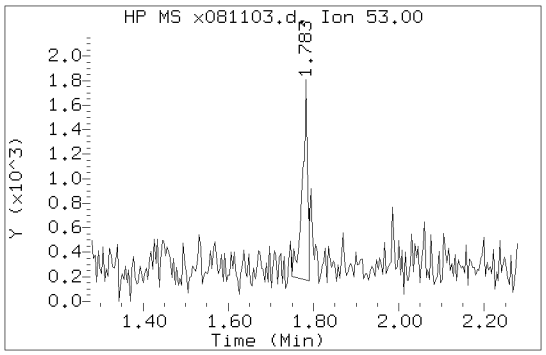
Chloroprene (126-99-8)

Reason Code:

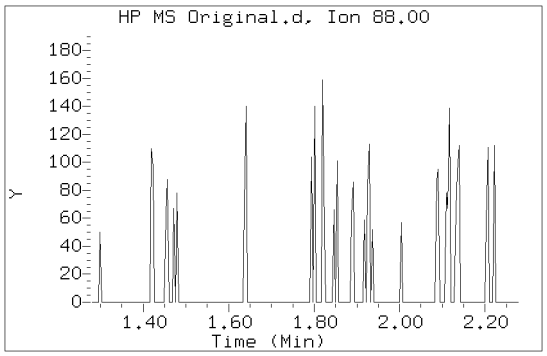
BEFORE
MASS
43
AREA
3740
HEIGHT
1290
12-Aug-2023
22:44



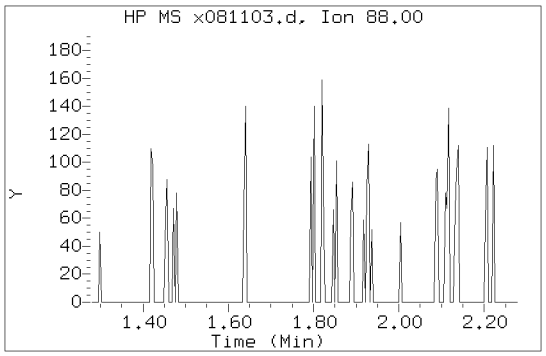
AFTER
MASS
53
AREA
1459
HEIGHT
1634
23-Aug-2023
11:12



BEFORE
MASS
61
AREA
0
HEIGHT
0
12-Aug-2023
22:44



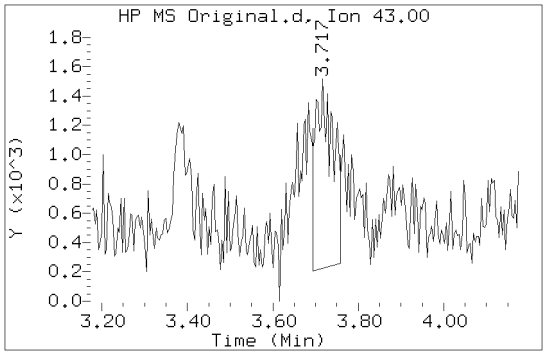
AFTER
MASS
88
AREA
0
HEIGHT
0
23-Aug-2023
11:12



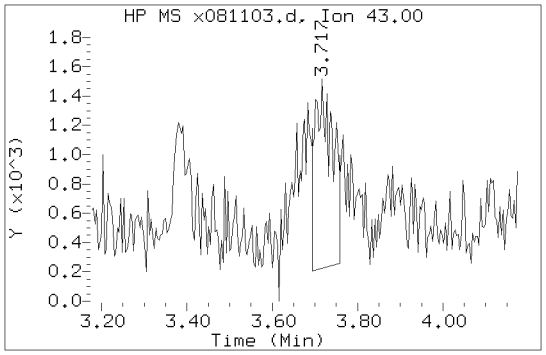
Ethyl Acetate (141-78-6)

Reason Code:

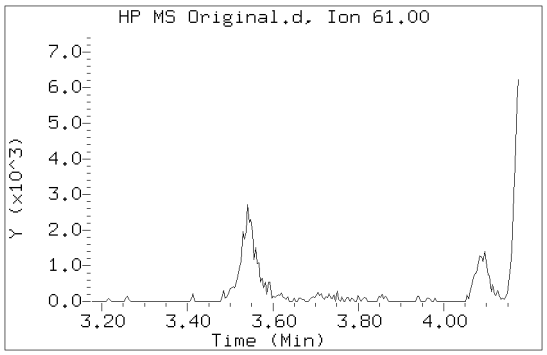
BEFORE
MASS
55
AREA
3259
HEIGHT
1070
12-Aug-2023
22:44



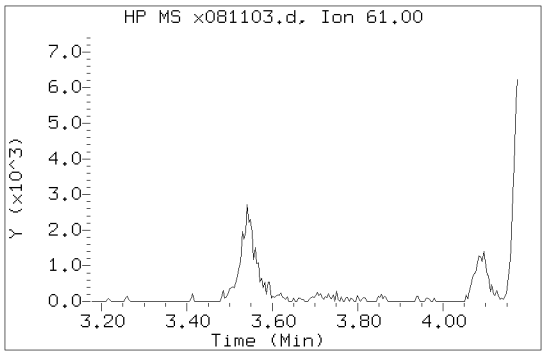
AFTER
MASS
43
AREA
3740
HEIGHT
1290
23-Aug-2023
11:12



BEFORE
MASS
85
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER
MASS
61
AREA
0
HEIGHT
0
23-Aug-2023
11:12

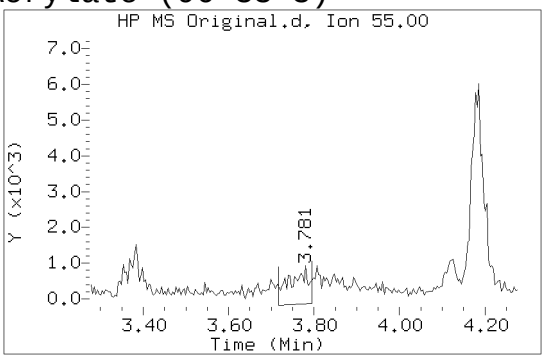


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InstruID : voa6.i
LabSampID : VSTD000.5

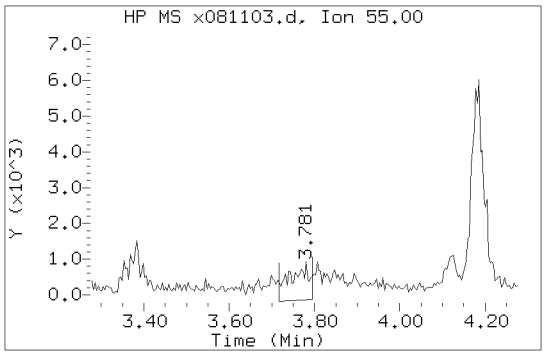
Methyl Acrylate (96-33-3)

Reason Code:

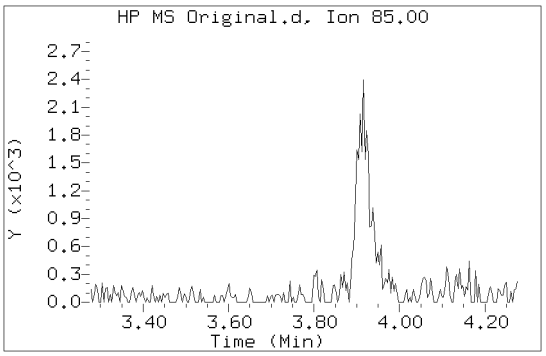
BEFORE
MASS
56
AREA
1373
HEIGHT
760
12-Aug-2023
22:44



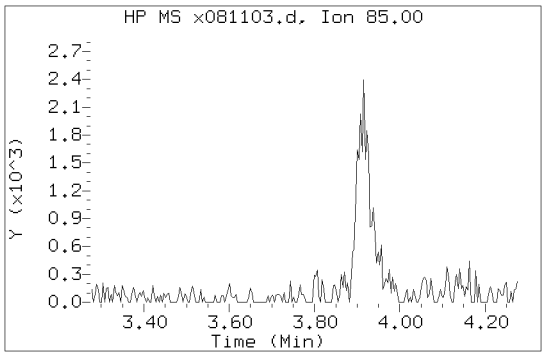
AFTER
MASS
55
AREA
3259
HEIGHT
1070
23-Aug-2023
11:12



BEFORE
MASS
41
AREA
1816
HEIGHT
1155
12-Aug-2023
22:44



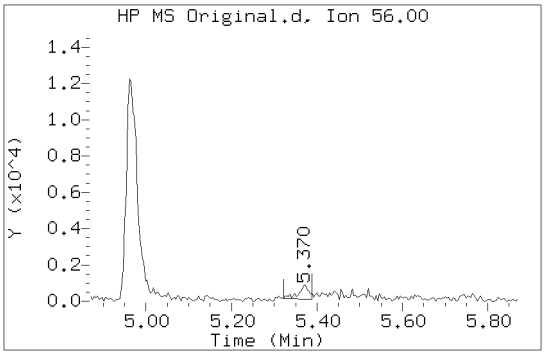
AFTER
MASS
85
AREA
0
HEIGHT
0
23-Aug-2023
11:12



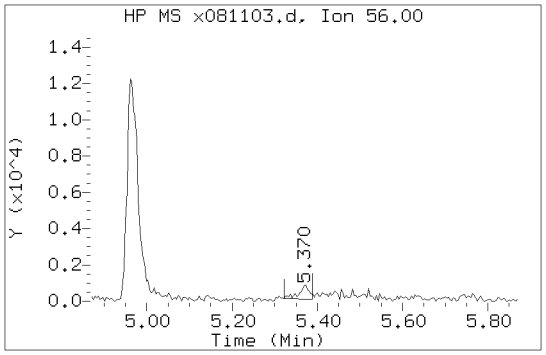
n-Butanol (71-36-3)

Reason Code:

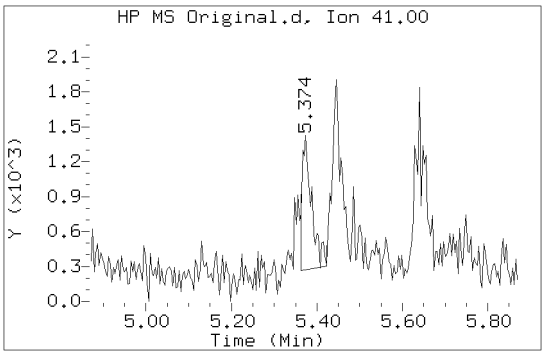
BEFORE
MASS
55
AREA
7657
HEIGHT
2409
12-Aug-2023
22:44



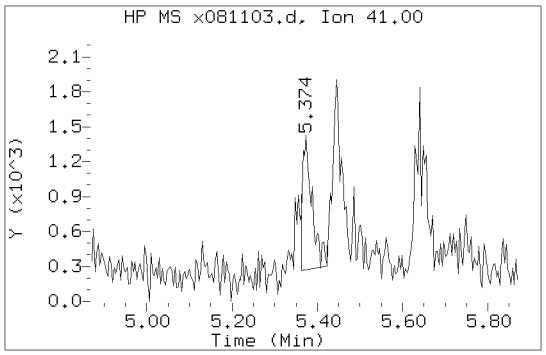
AFTER
MASS
56
AREA
1373
HEIGHT
760
23-Aug-2023
11:12



BEFORE
MASS
99
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER
MASS
41
AREA
1816
HEIGHT
1155
23-Aug-2023
11:12



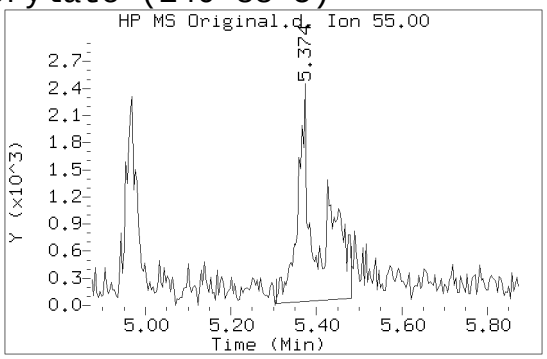
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Acrylate (140-88-5)

Reason Code:

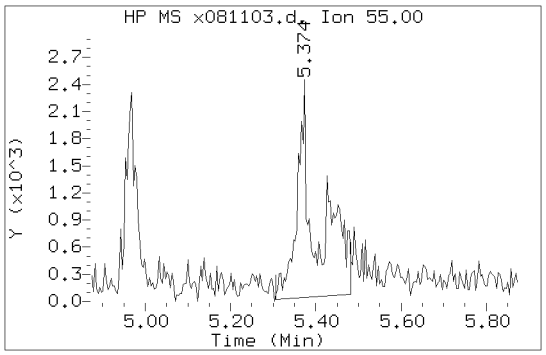
BEFORE

MASS
55
AREA
3494
HEIGHT
3275
12-Aug-2023
22:44



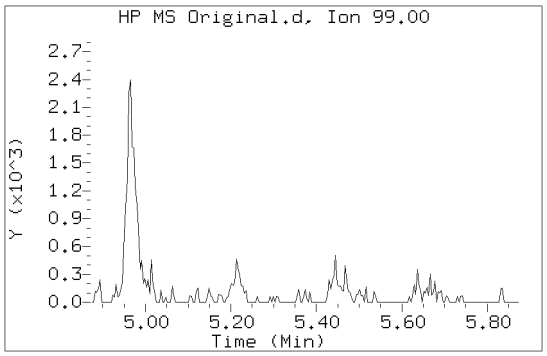
AFTER

MASS
55
AREA
7657
HEIGHT
2409
23-Aug-2023
11:12



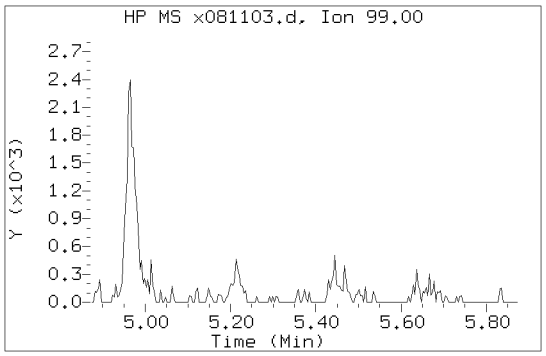
BEFORE

MASS
42
AREA
3200
HEIGHT
1599
12-Aug-2023
22:44



AFTER

MASS
99
AREA
0
HEIGHT
0
23-Aug-2023
11:12

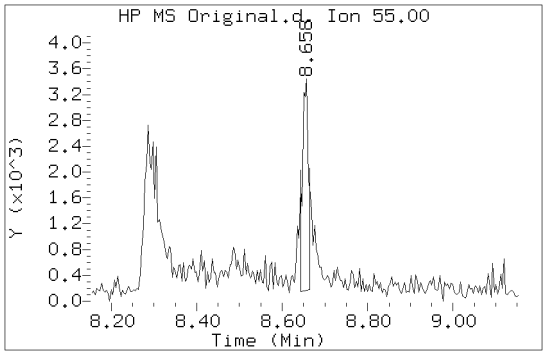


Cyclohexanone (108-94-1)

Reason Code:

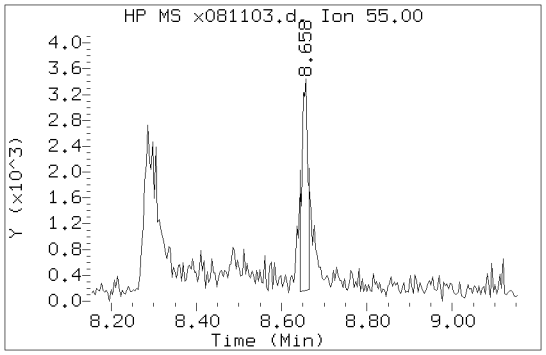
BEFORE

MASS
88
AREA
825
HEIGHT
518
12-Aug-2023
22:44



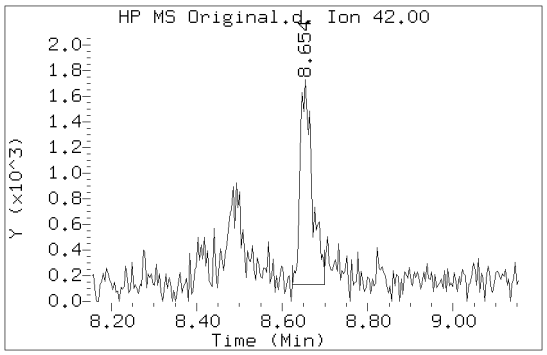
AFTER

MASS
55
AREA
3494
HEIGHT
3275
23-Aug-2023
11:12



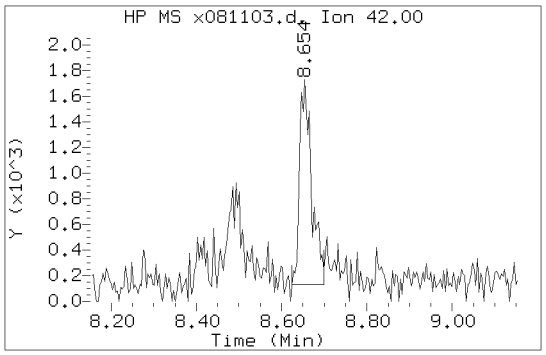
BEFORE

MASS
58
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER

MASS
42
AREA
3200
HEIGHT
1599
23-Aug-2023
11:12

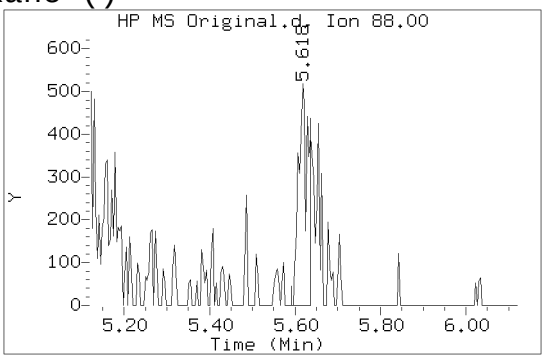


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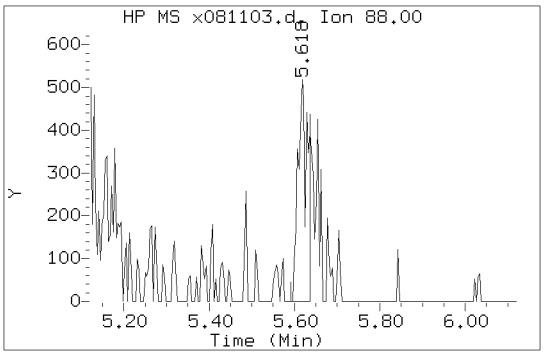
1,4-Dioxane ()

Reason Code:

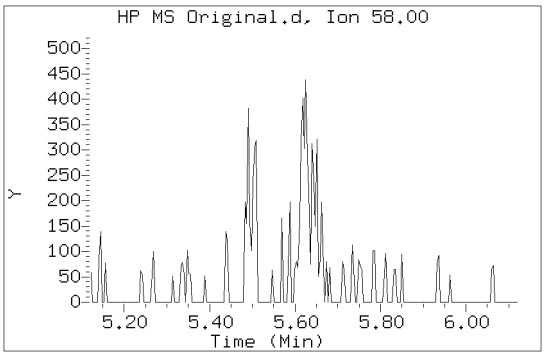
BEFORE
MASS
57
AREA
4056
HEIGHT
2392
12-Aug-2023
22:44



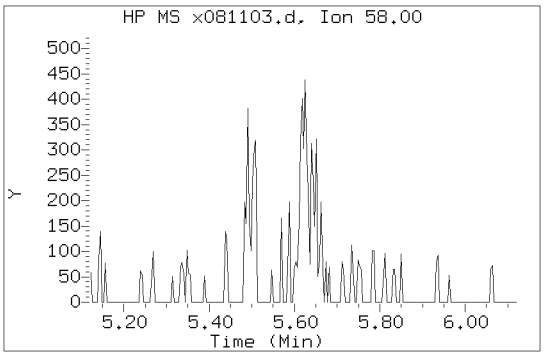
AFTER
MASS
88
AREA
825
HEIGHT
518
23-Aug-2023
11:12



BEFORE
MASS
41
AREA
6537
HEIGHT
2450
12-Aug-2023
22:44



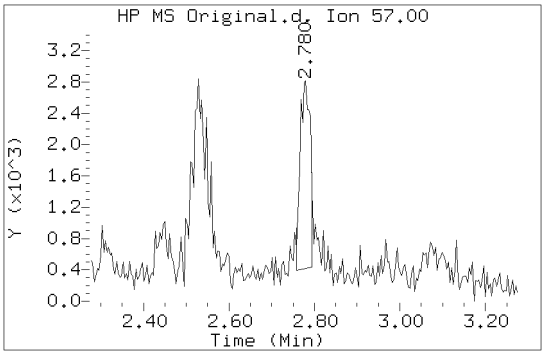
AFTER
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58
AREA
0
HEIGHT
0
23-Aug-2023
11:12



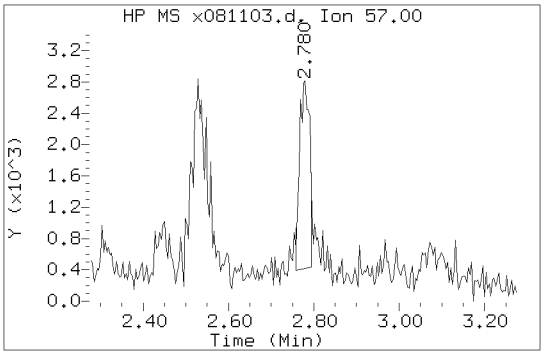
n-Hexane (110-54-3)

Reason Code:

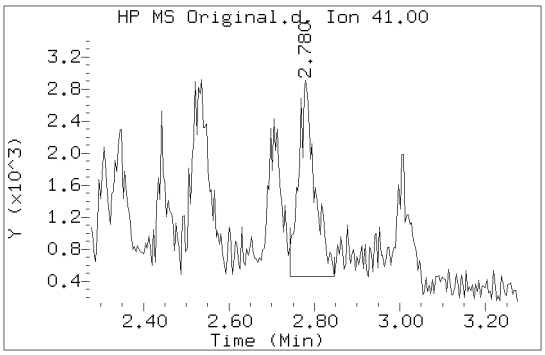
BEFORE
MASS
59
AREA
2930
HEIGHT
2922
12-Aug-2023
22:44



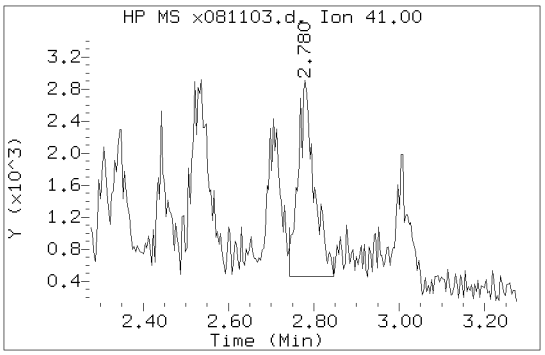
AFTER
MASS
57
AREA
4056
HEIGHT
2392
23-Aug-2023
11:12



BEFORE
MASS
74
AREA
1653
HEIGHT
1402
12-Aug-2023
22:44



AFTER
MASS
41
AREA
6537
HEIGHT
2450
23-Aug-2023
11:12

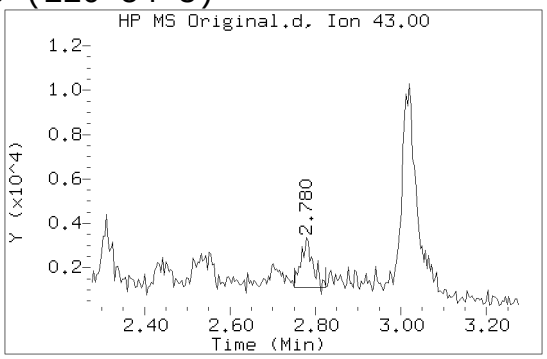


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InstruID : voa6.i
LabSampID : VSTD000.5

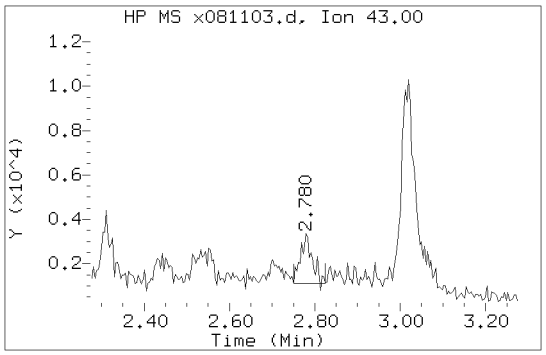
n-Hexane (110-54-3)

Reason Code:

BEFORE
MASS
45
AREA
2242
HEIGHT
1486
12-Aug-2023
22:44



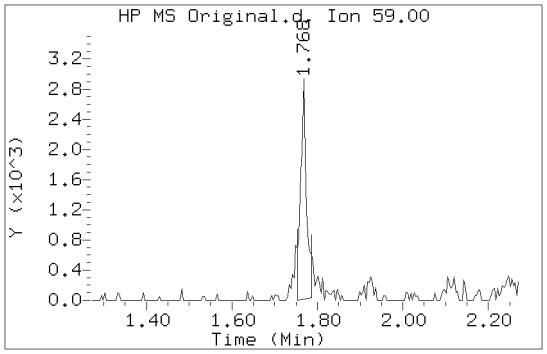
AFTER
MASS
43
AREA
4290
HEIGHT
2253
23-Aug-2023
11:12



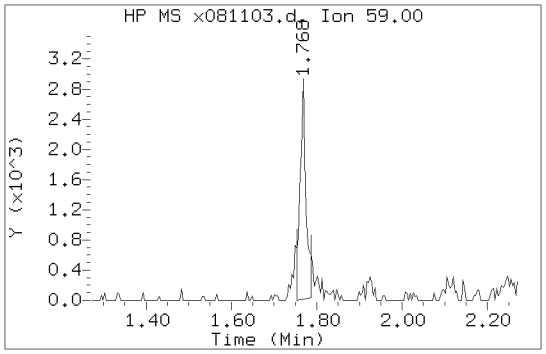
Diethyl ether (60-29-7)

Reason Code:

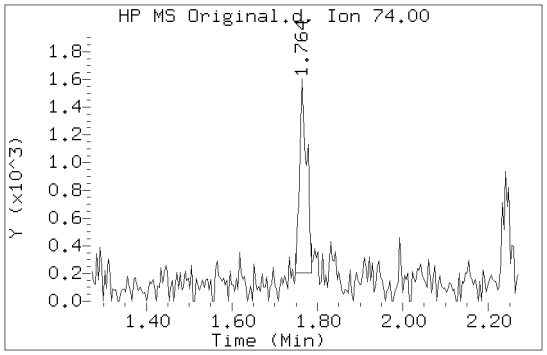
BEFORE
MASS
54
AREA
3838
HEIGHT
4080
12-Aug-2023
22:44



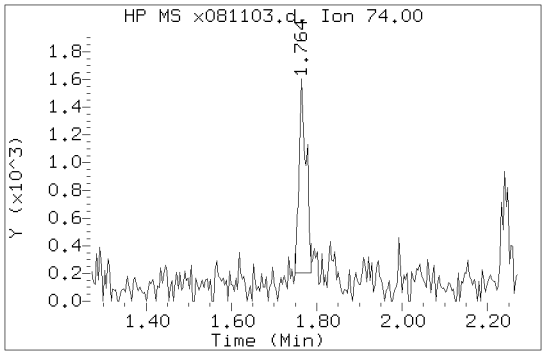
AFTER
MASS
59
AREA
2930
HEIGHT
2922
23-Aug-2023
11:12



BEFORE
MASS
53
AREA
3036
HEIGHT
3077
12-Aug-2023
22:44



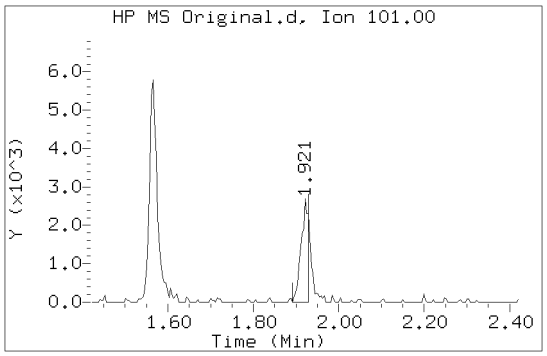
AFTER
MASS
74
AREA
1653
HEIGHT
1402
23-Aug-2023
11:12



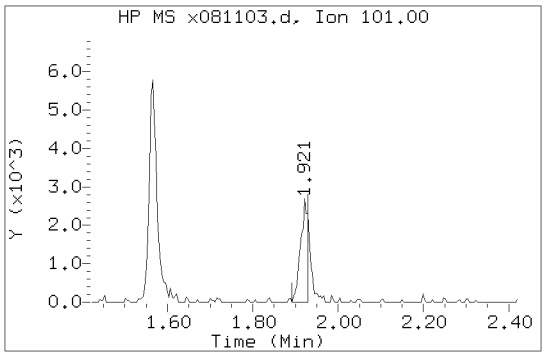
Freon TF (76-13-1)

Reason Code:

BEFORE
MASS
56
AREA
4440
HEIGHT
2580
12-Aug-2023
22:44



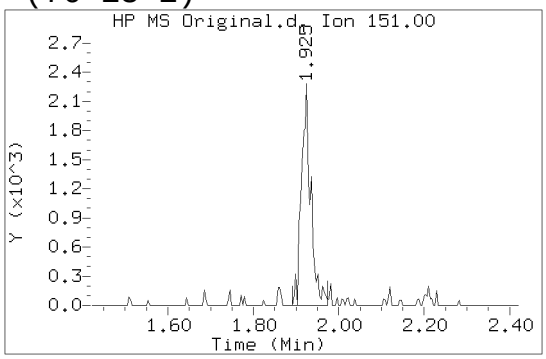
AFTER
MASS
101
AREA
3204
HEIGHT
2695
23-Aug-2023
11:12



Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

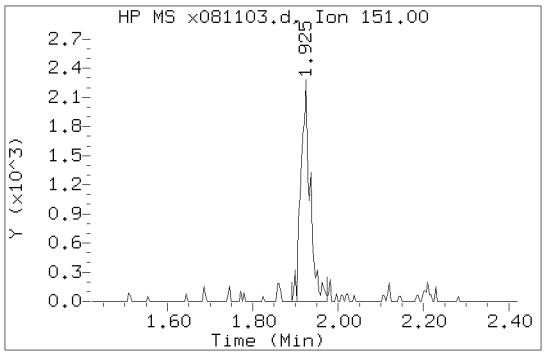
Freon TF (76-13-1)

BEFORE
MASS
84
AREA
4567
HEIGHT
2590
12-Aug-2023
22:44



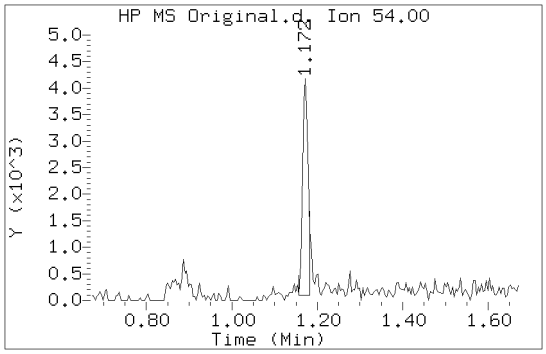
AFTER
MASS
151
AREA
3499
HEIGHT
2282
23-Aug-2023
11:12

Reason Code:



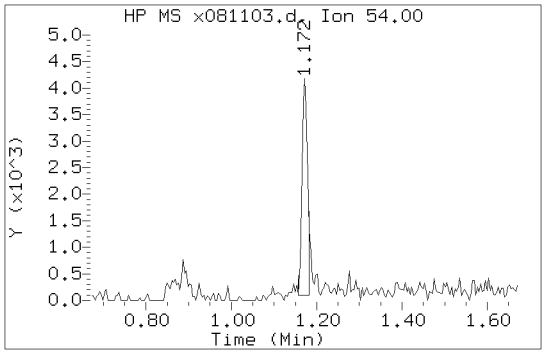
1,3-Butadiene (106-99-0)

BEFORE
MASS
42
AREA
1419
HEIGHT
954
12-Aug-2023
22:44

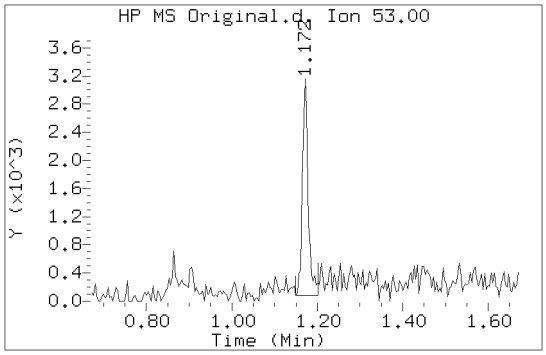


AFTER
MASS
54
AREA
3838
HEIGHT
4080
23-Aug-2023
11:12

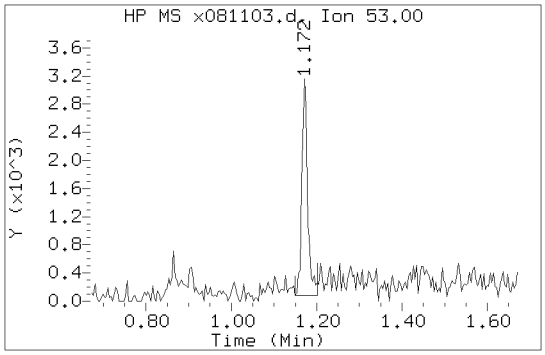
Reason Code:



BEFORE
MASS
71
AREA
0
HEIGHT
0
12-Aug-2023
22:44

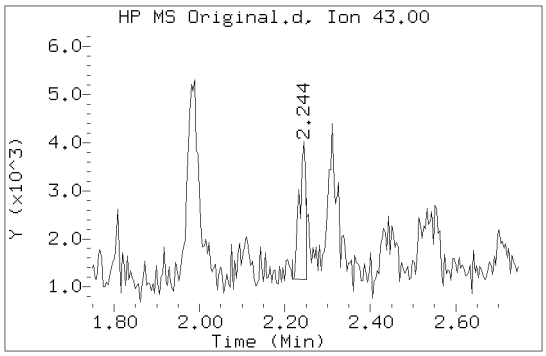


AFTER
MASS
53
AREA
3036
HEIGHT
3077
23-Aug-2023
11:12



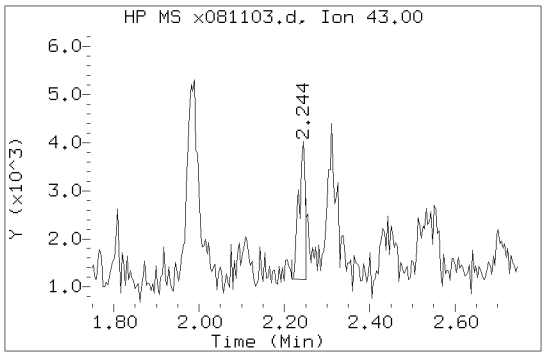
Methyl acetate (79-20-9)

BEFORE
MASS
101
AREA
3204
HEIGHT
2695
12-Aug-2023
22:44



AFTER
MASS
43
AREA
3113
HEIGHT
2865
23-Aug-2023
11:12

Reason Code:

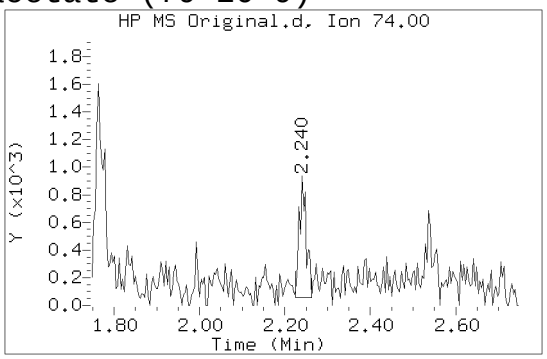


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

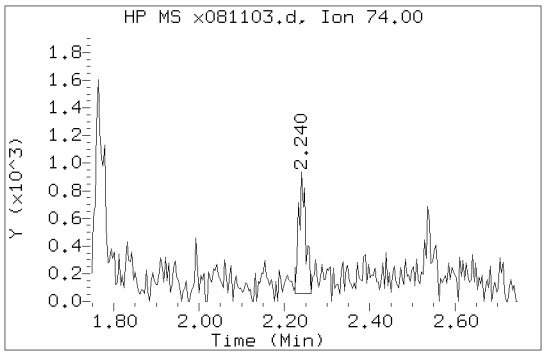
Methyl acetate (79-20-9)

Reason Code:

BEFORE
MASS
151
AREA
3499
HEIGHT
2282
12-Aug-2023
22:44



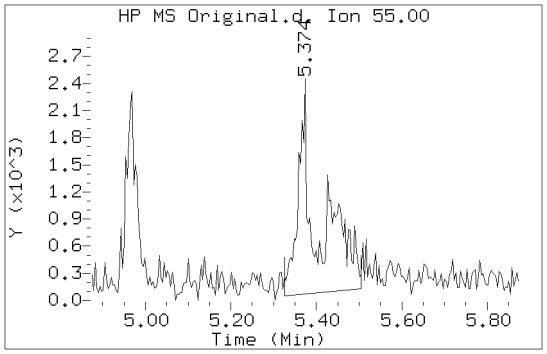
AFTER
MASS
74
AREA
1029
HEIGHT
883
23-Aug-2023
11:12



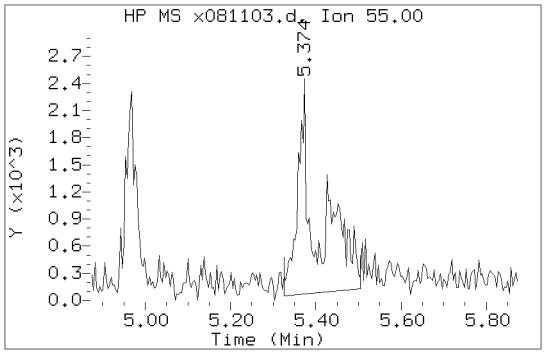
Methylcyclohexane (108-87-2)

Reason Code:

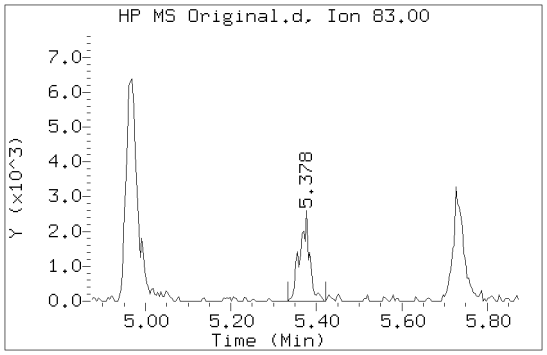
BEFORE
MASS
118
AREA
5954
HEIGHT
4268
12-Aug-2023
22:44



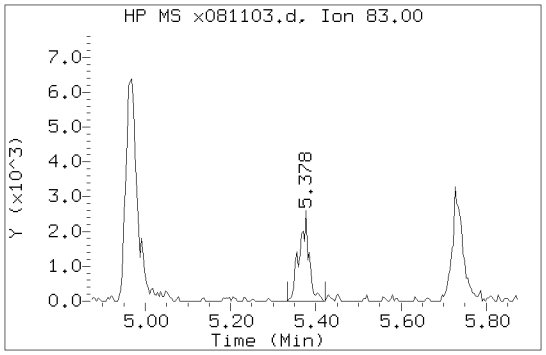
AFTER
MASS
55
AREA
7626
HEIGHT
2381
23-Aug-2023
11:12



BEFORE
MASS
103
AREA
3860
HEIGHT
2367
12-Aug-2023
22:44



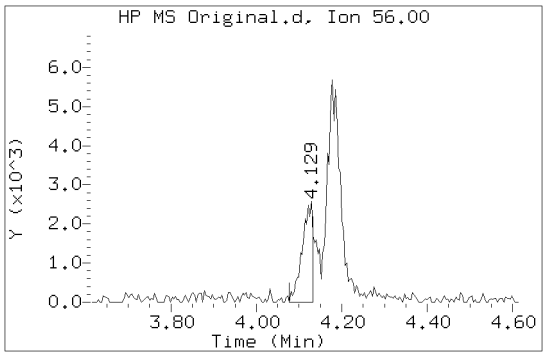
AFTER
MASS
83
AREA
4200
HEIGHT
2600
23-Aug-2023
11:12



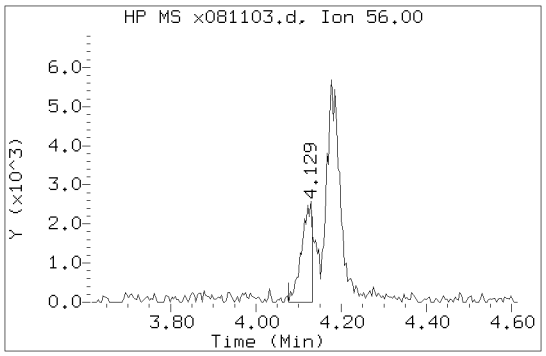
Cyclohexane (110-82-7)

Reason Code:

BEFORE
MASS
55
AREA
7626
HEIGHT
2381
12-Aug-2023
22:44



AFTER
MASS
56
AREA
4440
HEIGHT
2580
23-Aug-2023
11:12

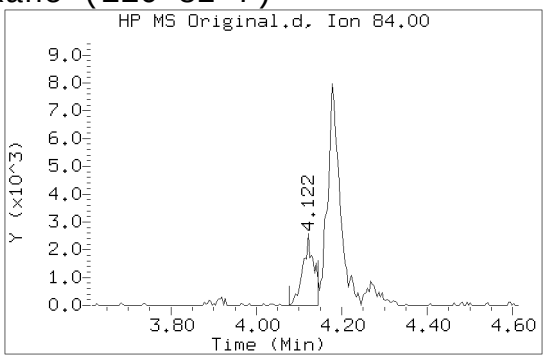


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

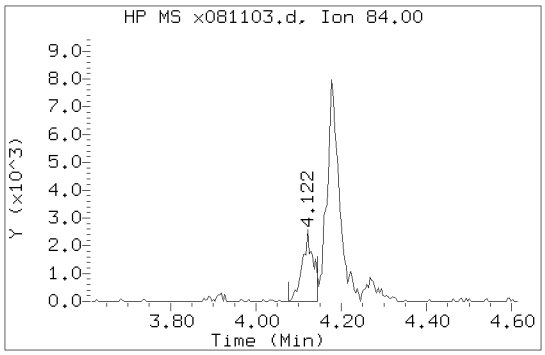
Cyclohexane (110-82-7)

Reason Code:

BEFORE
MASS
83
AREA
4200
HEIGHT
2600
12-Aug-2023
22:44



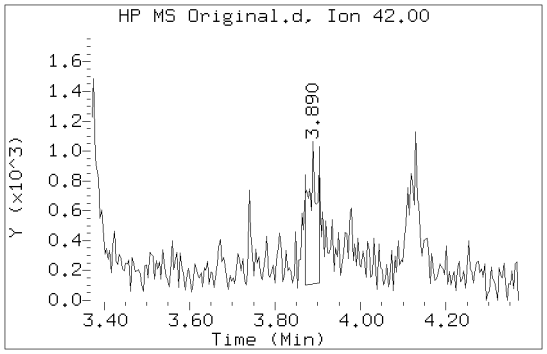
AFTER
MASS
84
AREA
4567
HEIGHT
2590
23-Aug-2023
11:12



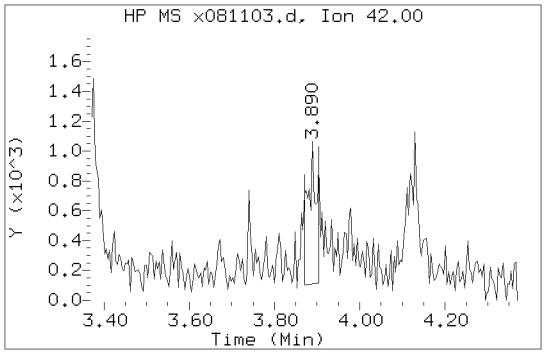
Tetrahydrofuran (109-99-9)

Reason Code:

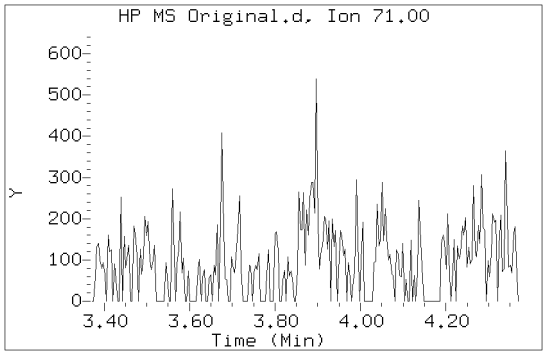
BEFORE
MASS
43
AREA
3113
HEIGHT
2865
12-Aug-2023
22:44



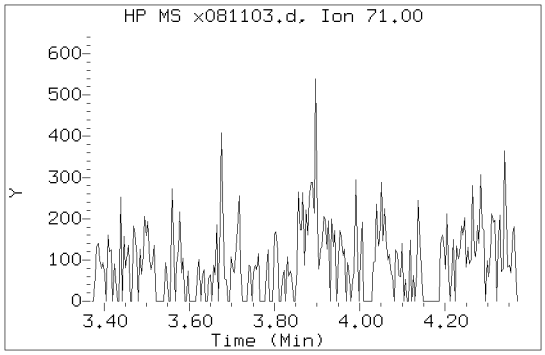
AFTER
MASS
42
AREA
1419
HEIGHT
954
23-Aug-2023
11:12



BEFORE
MASS
74
AREA
1029
HEIGHT
883
12-Aug-2023
22:44



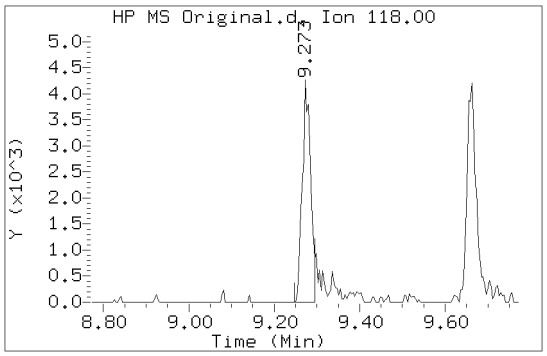
AFTER
MASS
71
AREA
0
HEIGHT
0
23-Aug-2023
11:12



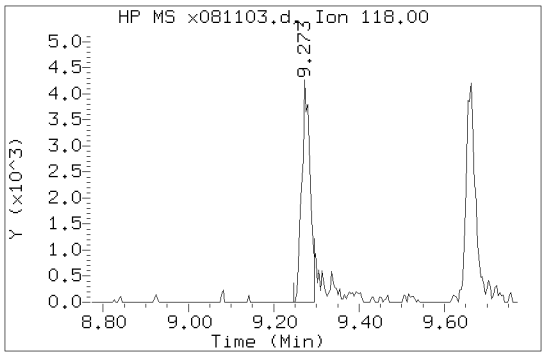
alpha-Methylstyrene (98-83-9)

Reason Code:

BEFORE
MASS
59
AREA
9824
HEIGHT
5748
12-Aug-2023
22:44



AFTER
MASS
118
AREA
5954
HEIGHT
4268
23-Aug-2023
11:12

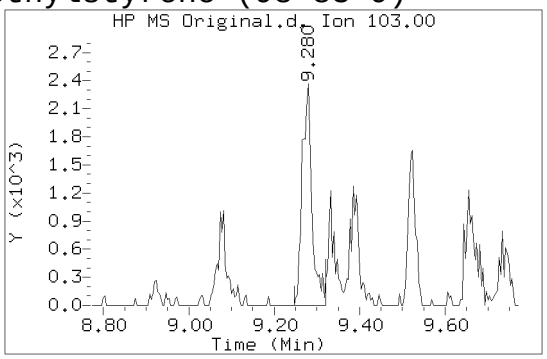


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

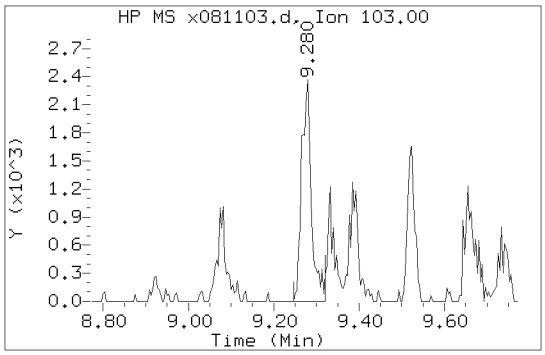
alpha-Methylstyrene (98-83-9)

Reason Code:

BEFORE
MASS
41
AREA
2907
HEIGHT
1883
12-Aug-2023
22:44



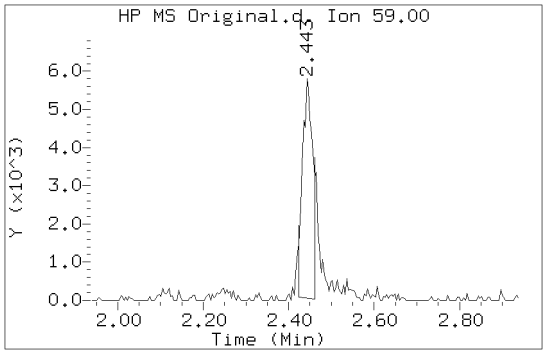
AFTER
MASS
103
AREA
3860
HEIGHT
2367
23-Aug-2023
11:12



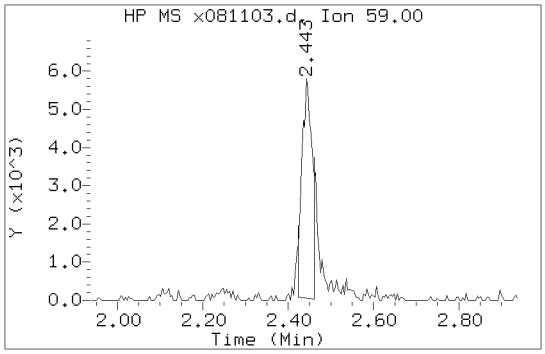
Tert-butyl alcohol (75-65-0)

Reason Code:

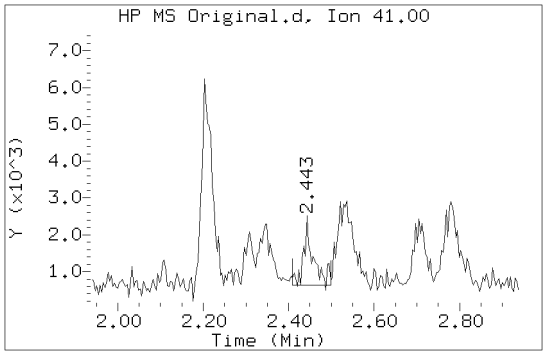
BEFORE
MASS
45
AREA
5543
HEIGHT
4320
12-Aug-2023
22:44



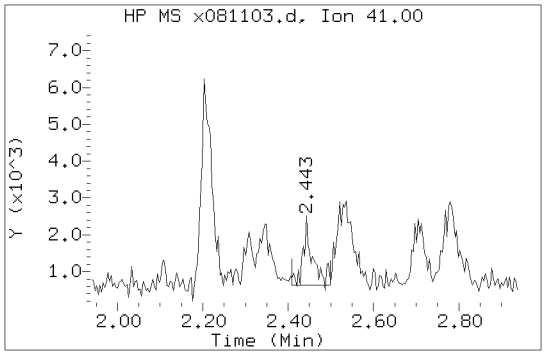
AFTER
MASS
59
AREA
9824
HEIGHT
5748
23-Aug-2023
11:12



BEFORE
MASS
59
AREA
626
HEIGHT
320
12-Aug-2023
22:44



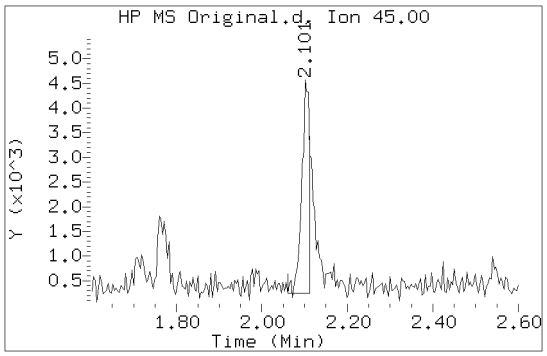
AFTER
MASS
41
AREA
2907
HEIGHT
1883
23-Aug-2023
11:12



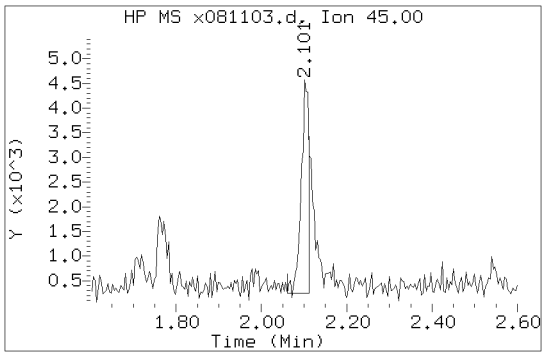
Isopropyl alcohol (67-63-0)

Reason Code:

BEFORE
MASS
45
AREA
12268
HEIGHT
4726
12-Aug-2023
22:44



AFTER
MASS
45
AREA
5543
HEIGHT
4320
23-Aug-2023
11:12



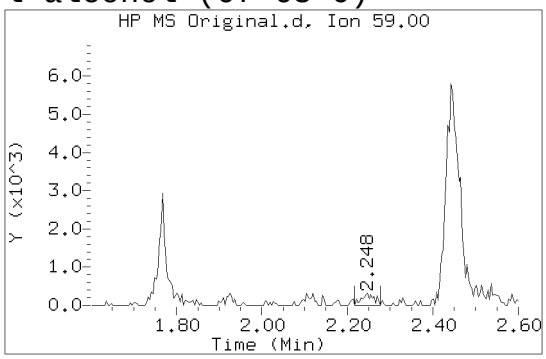
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Isopropyl alcohol (67-63-0)

Reason Code:

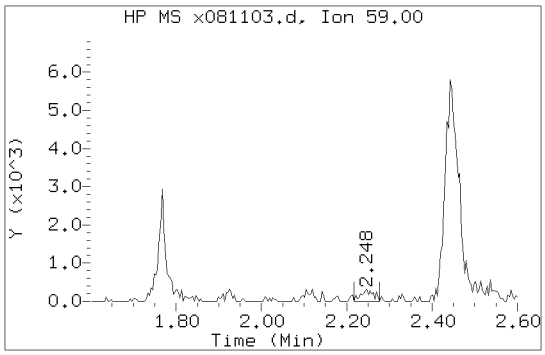
BEFORE

MASS
59
AREA
1145
HEIGHT
874
12-Aug-2023
22:44



AFTER

MASS
59
AREA
626
HEIGHT
320
23-Aug-2023
11:12

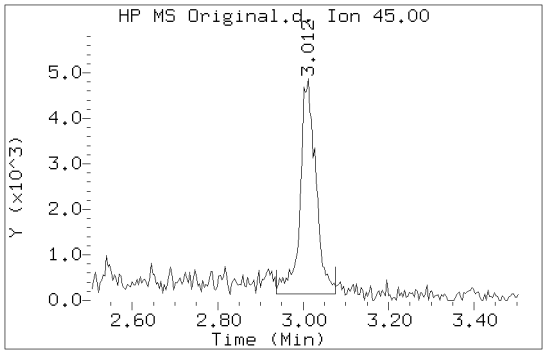


Diisopropyl ether (108-20-3)

Reason Code:

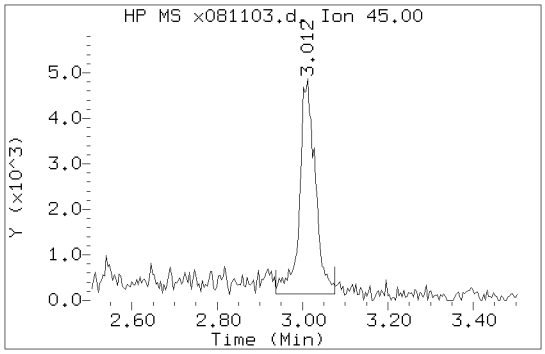
BEFORE

MASS
105
AREA
12507
HEIGHT
8313
12-Aug-2023
22:44



AFTER

MASS
45
AREA
12268
HEIGHT
4726
23-Aug-2023
11:12

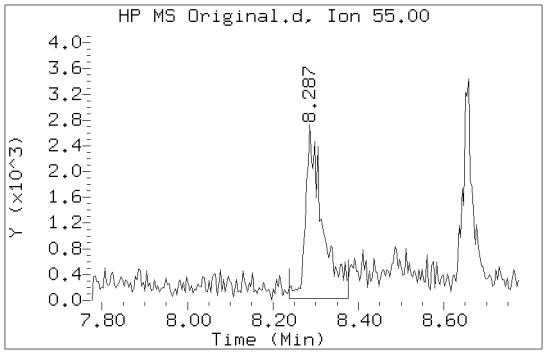


Butyl acrylate (141-32-2)

Reason Code:

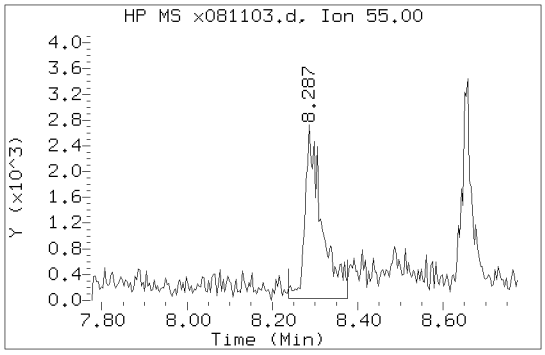
BEFORE

MASS
44
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER

MASS
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2692
23-Aug-2023
11:12

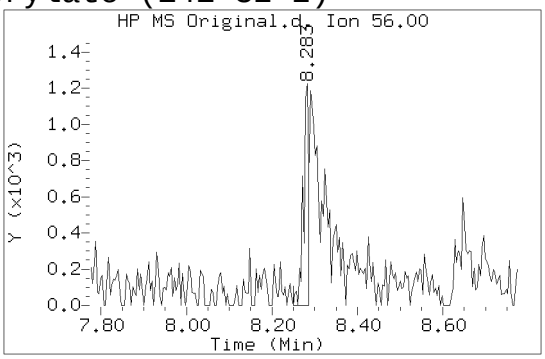


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LabSampID : VSTD000.5

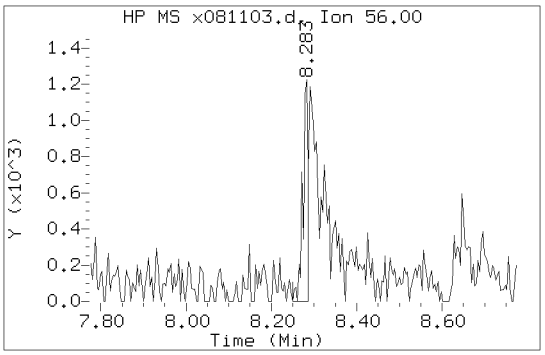
Butyl acrylate (141-32-2)

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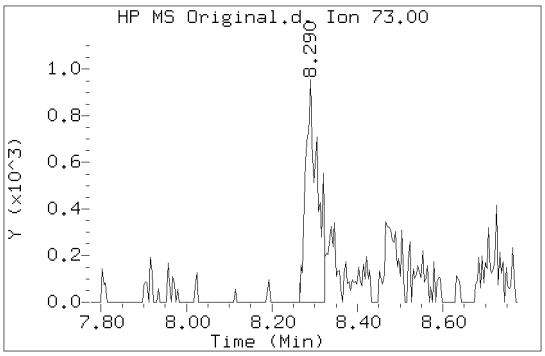
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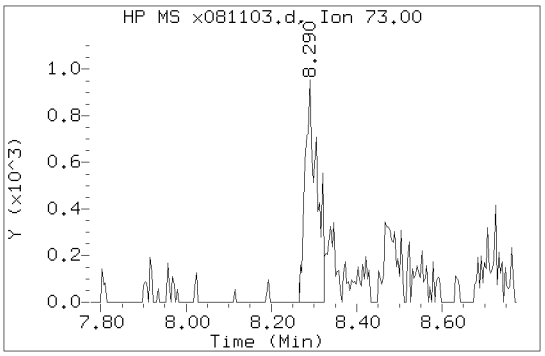
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23-Aug-2023
11:12



BEFORE
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HEIGHT
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12-Aug-2023
22:44



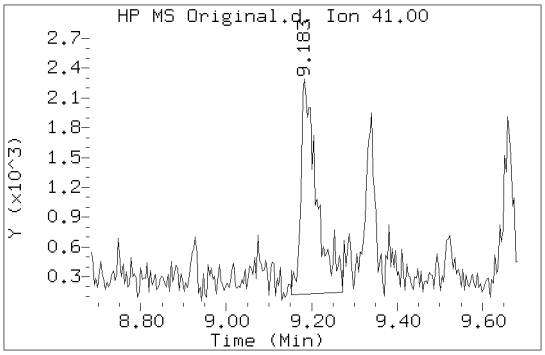
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11:12



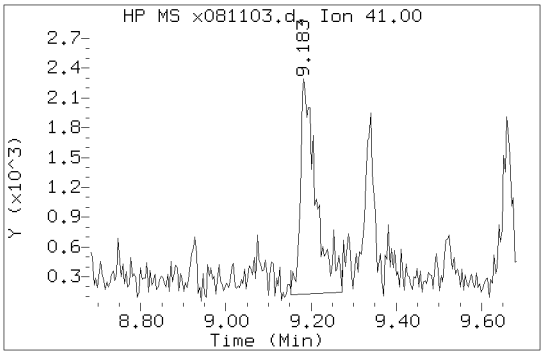
Butyl methacrylate (97-88-1)

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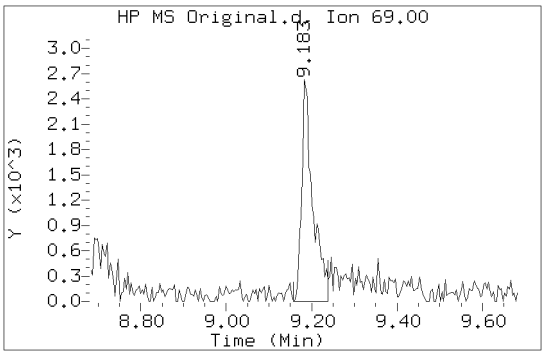
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AREA
5435
HEIGHT
4927
12-Aug-2023
22:44



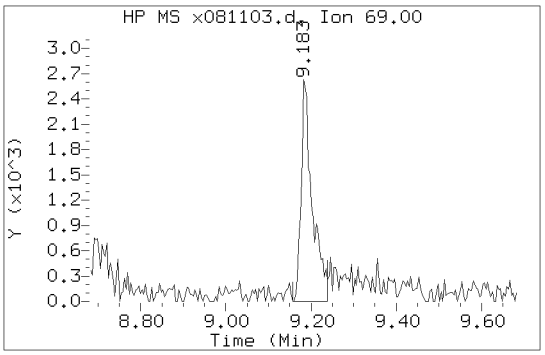
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AREA
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HEIGHT
2167
23-Aug-2023
11:12



BEFORE
MASS
79
AREA
2634
HEIGHT
1651
12-Aug-2023
22:44



AFTER
MASS
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AREA
4890
HEIGHT
2628
23-Aug-2023
11:12

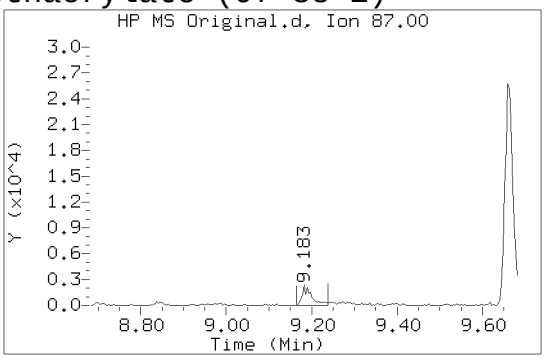


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InstruID : voa6.i
LabSampID : VSTD000.5

Butyl methacrylate (97-88-1)

BEFORE

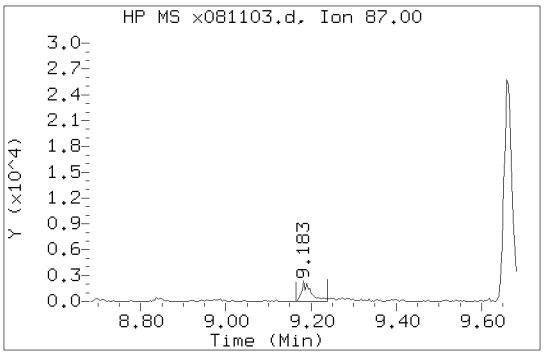
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AFTER

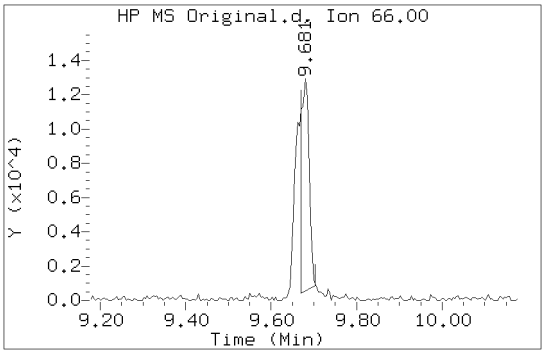
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3614
HEIGHT
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23-Aug-2023
11:12



Dicyclopentadiene (77-73-6)

BEFORE

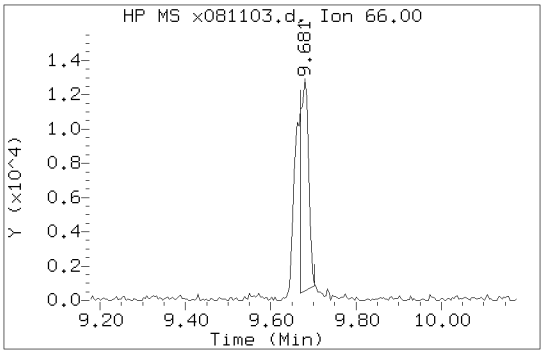
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12-Aug-2023
22:44



Reason Code:

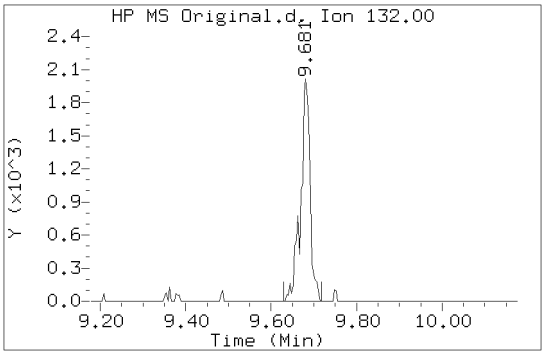
AFTER

MASS
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AREA
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HEIGHT
12389
23-Aug-2023
11:12



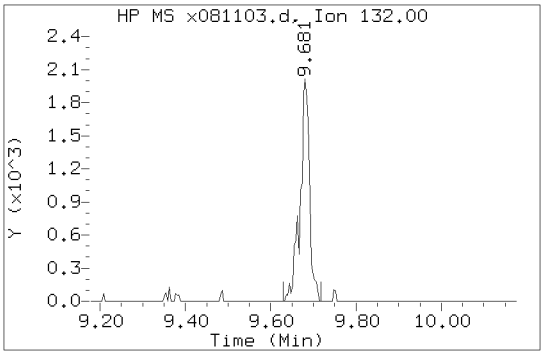
BEFORE

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12-Aug-2023
22:44



AFTER

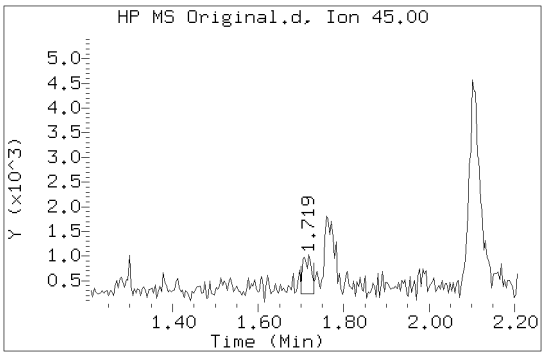
MASS
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23-Aug-2023
11:12



Ethanol (64-17-5)

BEFORE

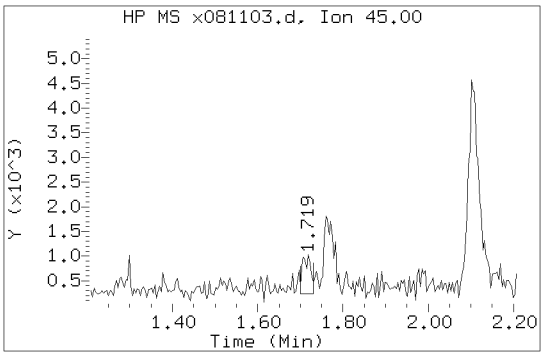
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4322
HEIGHT
2075
12-Aug-2023
22:44



Reason Code:

AFTER

MASS
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AREA
1086
HEIGHT
790
23-Aug-2023
11:12



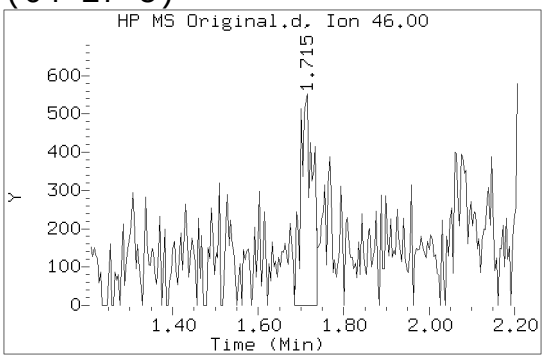
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InstruID : voa6.i
LabSampID : VSTD000.5

Ethanol (64-17-5)

Reason Code:

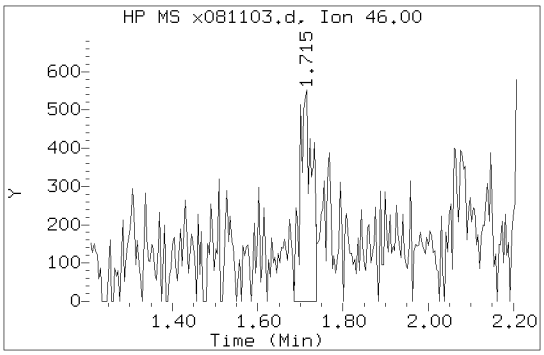
BEFORE

MASS
111
AREA
4651
HEIGHT
1971
12-Aug-2023
22:44



AFTER

MASS
46
AREA
1108
HEIGHT
552
23-Aug-2023
11:12



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081104.D Page 1
Report Date: 23-Aug-2023 11:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081104.D
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Inj Date : 11-AUG-2023 12:35
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 12:35 Cal File: X081104.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	588670	50.0000	
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	4328	1.00000	1.45
3 Chloromethane	50	1.085	1.085	(0.260)	6181	1.00000	1.07
4 Propionitrile	54	3.694	3.694	(0.883)	8585	10.0000	10.47(aM)
5 Vinyl Chloride	62	1.149	1.149	(0.275)	6615	1.00000	0.93
6 Bromomethane	94	1.347	1.347	(0.322)	4430	1.00000	1.16(M)
7 Chloroethane	64	1.411	1.411	(0.338)	5096	1.00000	1.10
8 Trichlorofluoromethane	101	1.569	1.569	(0.375)	9051	1.00000	0.90(M)
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	5761	1.00000	1.01
12 Isobutyl Alcohol	43	4.702	4.702	(1.125)	17428	20.0000	18.88(aM)
13 Acetonitrile	39	2.206	2.206	(0.528)	9985	10.0000	10.99(a)
14 Allyl Chloride	41	2.210	2.210	(0.528)	19393	1.00000	1.08(a)
15 Iodomethane	142	2.037	2.037	(0.487)	5195	2.00000	6.31
16 Acrylonitrile	53	2.543	2.543	(0.608)	5718	2.00000	2.08(M)
17 Methylene Chloride	84	2.303	2.303	(0.551)	8402	1.00000	1.17(M)
18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	22118	1.00000	1.09
19 Carbon Disulfide	76	2.078	2.078	(0.497)	33989	2.00000	2.01
20 trans-1,2-Dichloroethene	96	2.539	2.539	(0.607)	7259	1.00000	1.09
21 Vinyl Acetate	43	3.016	3.016	(0.721)	39484	2.00000	2.02
22 1,1-Dichloroethane	63	2.929	2.929	(0.701)	14531	1.00000	1.16(M)
23 Chloroprene	53	1.778	1.778	(0.425)	2637	1.00000	1.05(aM)

24	2-Butanone	43	3.675	3.675 (0.879)	4169	2.00000	1.91(MH)
25	Methacrylonitrile	41	3.866	3.866 (0.925)	5673	1.00000	0.96(aM)

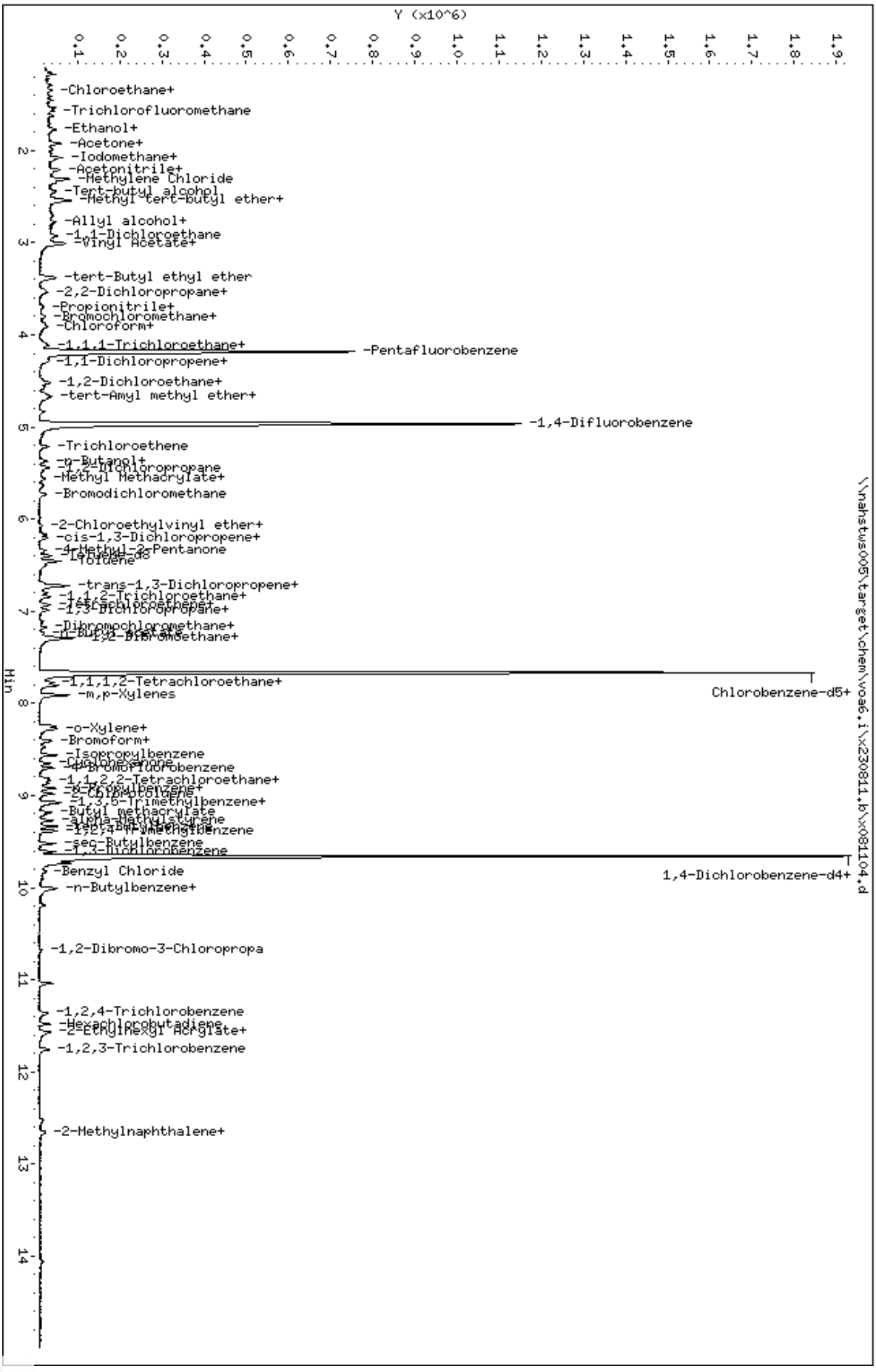
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	26 2,2-Dichloropropane	77	3.522	3.522	(0.842)	9399	1.00000	1.10
	27 cis-1,2-Dichloroethene	96	3.544	3.544	(0.848)	6391	1.00000	1.00
	28 Chloroform	83	3.915	3.915	(0.936)	11723	1.00000	1.07
	29 Bromochloromethane	128	3.814	3.814	(0.912)	4447	1.00000	1.23
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	7915	1.00000	0.90
	32 1,1-Dichloropropene	75	4.298	4.298	(0.866)	6485	1.00000	0.89(MH)
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	9628	1.00000	1.10
	34 Carbon Tetrachloride	117	4.268	4.268	(0.860)	7329	1.00000	0.96(H)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	916625	50.0000	
	37 Benzene	78	4.522	4.522	(0.911)	23319	1.00000	1.03
	38 Trichloroethene	130	5.216	5.216	(1.051)	6331	1.00000	0.97(a)
	39 Bromodichloromethane	83	5.730	5.730	(1.154)	9159	1.00000	1.08(aM)
	40 Methyl Methacrylate	41	5.636	5.636	(1.348)	5530	1.00000	1.02(a)
	41 2-Chloroethylvinyl ether	63	6.071	6.071	(1.223)	4418	2.00000	2.05(a)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	6642	1.00000	1.04(aM)
	43 2-Nitropropane	43	5.981	5.981	(1.430)	2423	1.00000	1.12(a)
	44 Dibromomethane	93	5.557	5.557	(1.119)	5180	1.00000	1.19(a)
	45 4-Methyl-2-Pentanone	43	6.341	6.341	(0.827)	13000	2.00000	2.05(aM)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	9439	1.00000	0.98(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	882965	50.0000	
$	48 Toluene-d8	98	6.397	6.397	(0.834)	20483	1.00000	0.98(aM)
	49 Ethyl Methacrylate	69	6.794	6.794	(1.368)	8710	1.00000	1.03(aH)
	50 Toluene	91	6.453	6.453	(0.842)	25633	1.00000	1.04(a)
	51 trans-1,3-Dichloropropene	75	6.700	6.700	(1.350)	7645	1.00000	0.94(a)
	52 2-Hexanone	43	7.109	7.109	(0.927)	8658	2.00000	2.03(aM)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	4999	1.00000	1.01(a)
	54 1,3-Dichloropropane	76	6.989	6.989	(0.912)	11149	1.00000	1.11(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	7075	1.00000	0.99(a)
	56 Tetrachloroethene	164	6.933	6.933	(0.904)	4911	1.00000	0.96(a)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	5993	1.00000	1.00(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	5712	1.00000	1.07(aMH)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	17172	1.00000	1.01(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	6256	1.00000	0.95(a)
	61 Ethylbenzene	106	7.806	7.806	(1.018)	7990	1.00000	0.95(a)
	62 m,p-Xylenes	106	7.911	7.911	(1.032)	20041	2.00000	1.87(a)
	63 o-Xylene	106	8.249	8.249	(1.076)	11068	1.00000	1.04(a)
	64 Styrene	104	8.275	8.275	(1.079)	15203	1.00000	0.86(a)
	66 Bromoform	173	8.414	8.414	(1.097)	4246	1.00000	0.88(Ta)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	23483	1.00000	0.89(a)
	68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	8236	1.00000	1.06(a)
$	69 4-Bromofluorobenzene	95	8.702	8.702	(1.135)	9648	1.00000	1.38(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	476655	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	5998	1.00000	1.05(a)
	72 trans-1,4-Dichloro-2-butene	53	8.905	8.905	(1.161)	2338	1.00000	1.05(aMH)
	73 n-Propylbenzene	91	8.920	8.920	(0.923)	25092	1.00000	0.89(a)
	74 Bromobenzene	156	8.822	8.822	(0.913)	7675	1.00000	1.00(a)
	75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	19765	1.00000	0.95(a)
	76 2-Chlorotoluene	91	8.980	8.980	(0.929)	19685	1.00000	1.09(a)
	77 4-Chlorotoluene	91	9.085	9.085	(0.940)	21461	1.00000	1.03(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	16538	1.00000	0.93(a)
	79 1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	21634	1.00000	1.01(a)
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	22253	1.00000	0.91(a)

82 p-Isopropyltoluene	119	9.651	9.651 (0.999)	18770	1.00000	0.85(a)
83 1,3-Dichlorobenzene	146	9.609	9.609 (0.995)	13626	1.00000	1.00(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	14768	1.00000	1.01(a)
86	Benzyl Chloride	91	9.827	9.827	(1.282)	9809	1.00000	0.77(aM)
87	n-Butylbenzene	91	10.007	10.007	(1.036)	15267	1.00000	2.70(a)
88	1,2-Dichlorobenzene	146	10.003	10.003	(1.035)	14337	1.00000	1.04(a)
89	1,2-Dibromo-3-Chloropropane	155	10.681	10.681	(1.106)	1274	1.00000	0.97(aM)
90	1,2,4-Trichlorobenzene	180	11.360	11.360	(1.176)	8955	1.00000	0.98(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	4132	1.00000	0.61(aM)
92	Naphthalene	128	11.574	11.574	(1.198)	23210	1.00000	1.02(aM)
93	1,2,3-Trichlorobenzene	180	11.761	11.761	(1.217)	9119	1.00000	1.03(a)
146	Methyl acetate	43	2.247	2.247	(0.537)	5952	1.00000	1.12(aM)
138	Freon TF	101	1.921	1.921	(0.459)	4459	1.00000	1.92(a)
141	Cyclohexane	56	4.114	4.114	(0.984)	5861	1.00000	2.55(aH)
142	Tetrahydrofuran	42	3.870	3.870	(0.926)	2426	2.00000	2.11(a)
147	Methylcyclohexane	55	5.373	5.373	(1.082)	13003	1.00000	0.94(aM)
135	1,4-Dioxane	88	5.621	5.621	(1.344)	1553	20.0000	20.75(M)
132	n-Butanol	56	5.370	5.370	(1.284)	2659	20.0000	83.82(a)
131	Methyl Acrylate	55	3.776	3.776	(0.903)	6078	1.00000	1.04(aM)
133	Ethyl Acrylate	55	5.373	5.373	(1.285)	12771	1.00000	0.91(aM)
136	n-Hexane	57	2.776	2.776	(0.664)	6841	1.00000	0.37(aM)
139	Diethyl ether	59	1.771	1.771	(0.424)	5859	1.00000	1.12(aM)
148	Tert-butyl alcohol	59	2.438	2.438	(0.583)	18788	20.0000	13.85
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	10285	20.0000	12.31
156	Diisopropyl ether	45	3.004	3.004	(0.719)	22432	1.00000	1.05(Ta)
166	1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	24047	1.00000	1.08(a)
167	Ethanol	45	1.707	1.707	(0.408)	1697	20.0000	(a)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	25478	20.0000	30.54
174	tert-Amyl methyl ether	73	4.672	4.672	(1.117)	25771	1.00000	1.04(a)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.808)	22019	1.00000	1.12(aM)
176	tert-Amyl alcohol	59	4.639	4.639	(1.109)	11529	20.0000	19.64
151	4-Methyl-2-pentanol	45	6.723	6.723	(1.354)	55294	20.0000	30.39
180	1-Methylnaphthalene	142	12.661	12.661	(1.310)	8605	1.00000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	5912	1.00000	0.97(a)
152	Amyl alcohol	42	6.963	6.963	(0.908)	2436	20.0000	33.32
159	Propylene oxide	43	1.808	1.808	(0.433)	3539	2.00000	3.72(a)
161	3-Methyl-1-butanol	55	6.944	6.944	(0.906)	2577	20.0000	16.87
162	Butyl acrylate	55	8.275	8.275	(1.079)	14061	1.00000	0.97(aM)
163	Butyl methacrylate	41	9.182	9.182	(0.950)	9554	1.00000	0.98(a)
164	Dicyclopentadiene	66	9.677	9.677	(1.002)	27109	1.00000	0.99(aM)
182	Epichlorohydrin	57	6.112	6.112	(1.231)	2242	4.00000	3.99(aM)
M 94	1,2-Dichloroethylene (total)	96				13650	2.00000	2.10(a)
M 95	Xylenes (total)	106				31109	3.00000	2.92(a)
130	Ethyl Acetate	43	3.675	3.675	(0.879)	6893	1.00000	1.02(aM)
134	Cyclohexanone	55	8.653	8.653	(0.896)	7180	20.0000	23.65(aM)
185	Isoprene	39	1.778	1.778	(0.425)	1665	1.00000	0.67(a)
188	Isopropyl acetate	43	4.702	4.702	(0.947)	17384	1.00000	0.93(aM)
189	n-Butyl acetate	43	7.236	7.236	(0.944)	9353	1.00000	0.92(aM)
150	Allyl alcohol	57	2.776	2.776	(0.664)	4388	20.0000	(a)
194	Acetaldehyde	44	1.212	1.212	(0.290)	4717	4.00000	(aM)
195	Methyl Amyl Ketone	43	8.402	8.402	(1.096)	17065	1.00000	1.11(a)
200	Dimethyl Disulfide	94	6.202	6.202	(0.809)	10240	1.00000	0.88(aM)
202	Isobutylene	41	1.250	1.250	(0.299)	886	1.00000	1.14(aM)
205	2-Ethylhexyl Acrylate	55	11.566	11.566	(1.197)	7592	1.00000	0.77(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
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Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

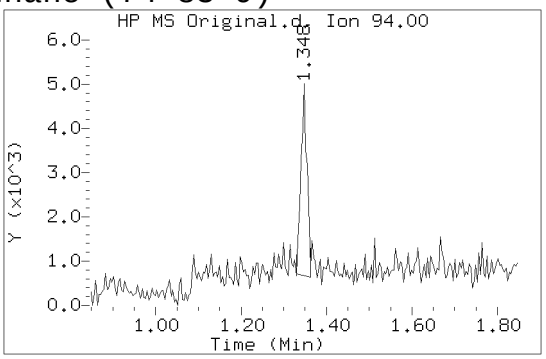
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
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InstruID : voa6.i
LabSampID : VSTD001

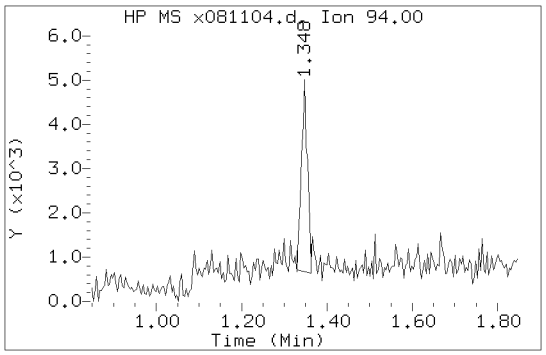
Bromomethane (74-83-9)

BEFORE
MASS
50
AREA
6181
HEIGHT
6578
12-Aug-2023
22:50

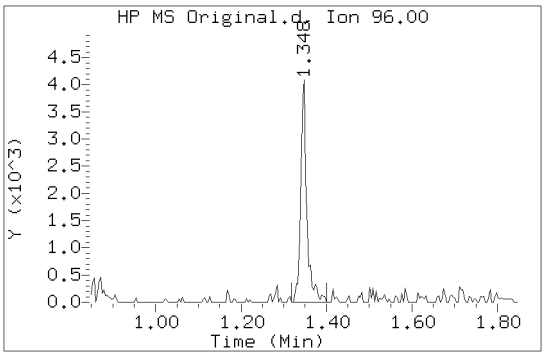


AFTER
MASS
94
AREA
4430
HEIGHT
4336
23-Aug-2023
11:12

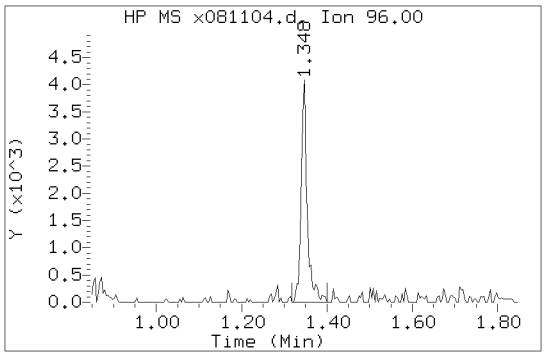
Reason Code:



BEFORE
MASS
52
AREA
2437
HEIGHT
2554
12-Aug-2023
22:50

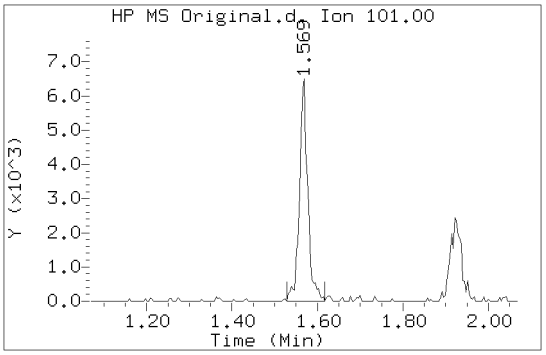


AFTER
MASS
96
AREA
4241
HEIGHT
4086
23-Aug-2023
11:12



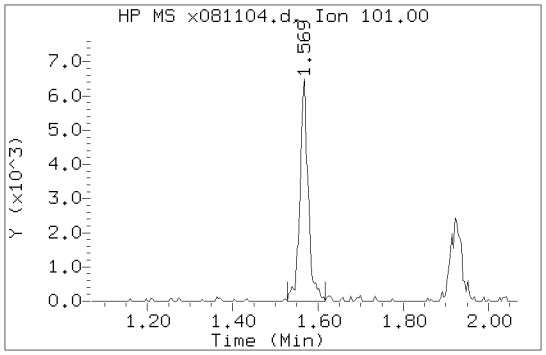
Trichlorofluoromethane (75-69-4)

BEFORE
MASS
94
AREA
4430
HEIGHT
4336
12-Aug-2023
22:50

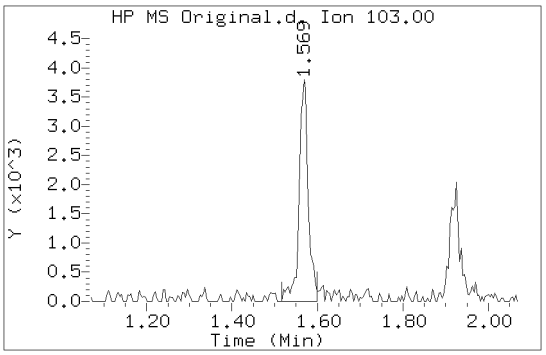


AFTER
MASS
101
AREA
9051
HEIGHT
6498
23-Aug-2023
11:12

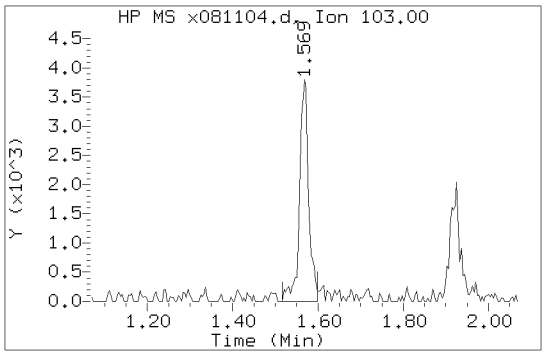
Reason Code:



BEFORE
MASS
96
AREA
4241
HEIGHT
4086
12-Aug-2023
22:50



AFTER
MASS
103
AREA
5842
HEIGHT
3798
23-Aug-2023
11:12

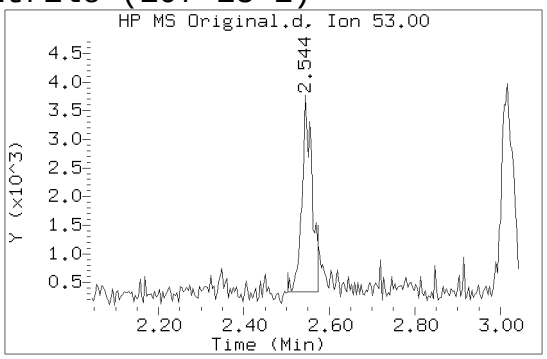


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LabSampID : VSTD001

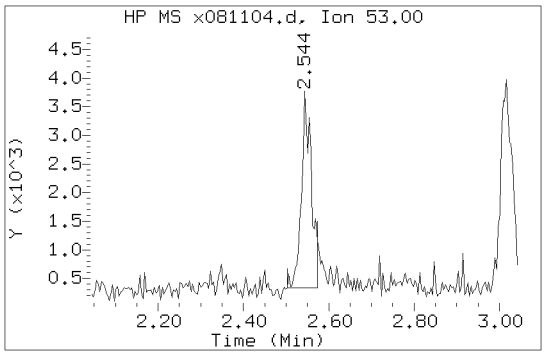
Acrylonitrile (107-13-1)

Reason Code:

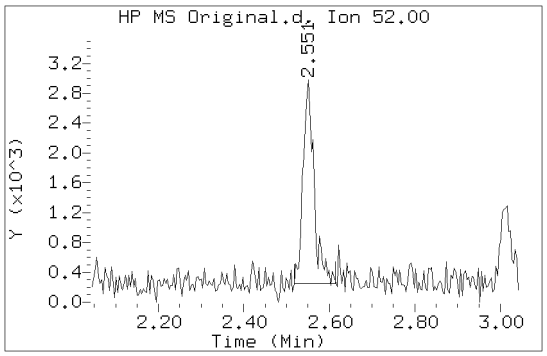
BEFORE
MASS
43
AREA
9915
HEIGHT
6046
12-Aug-2023
22:50



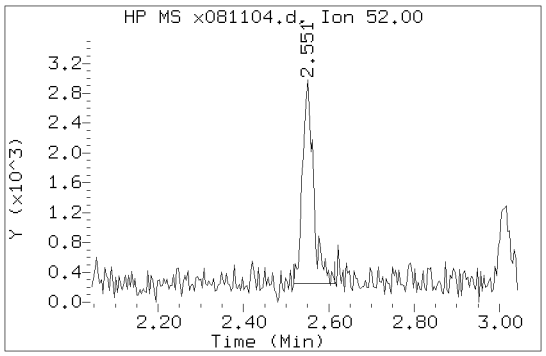
AFTER
MASS
53
AREA
5718
HEIGHT
3442
23-Aug-2023
11:12



BEFORE
MASS
58
AREA
3093
HEIGHT
2028
12-Aug-2023
22:50



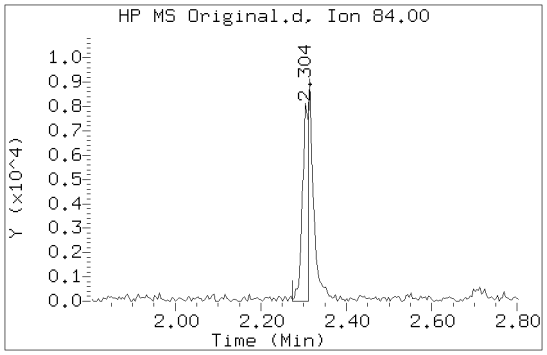
AFTER
MASS
52
AREA
4940
HEIGHT
2727
23-Aug-2023
11:12



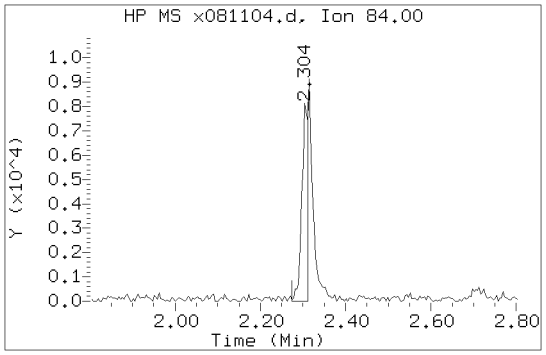
Methylene Chloride (75-09-2)

Reason Code:

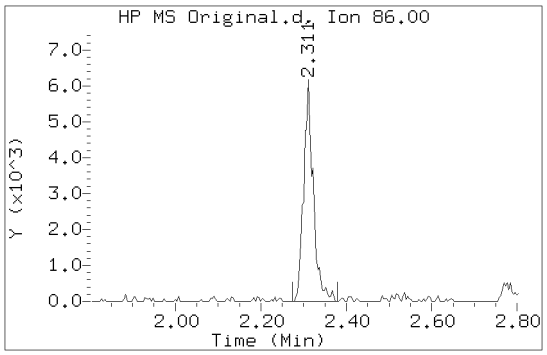
BEFORE
MASS
96
AREA
5761
HEIGHT
3471
12-Aug-2023
22:50



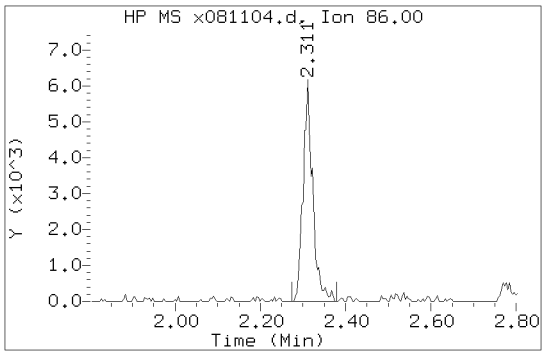
AFTER
MASS
84
AREA
8402
HEIGHT
8122
23-Aug-2023
11:12



BEFORE
MASS
61
AREA
9335
HEIGHT
6208
12-Aug-2023
22:50



AFTER
MASS
86
AREA
9806
HEIGHT
6172
23-Aug-2023
11:12

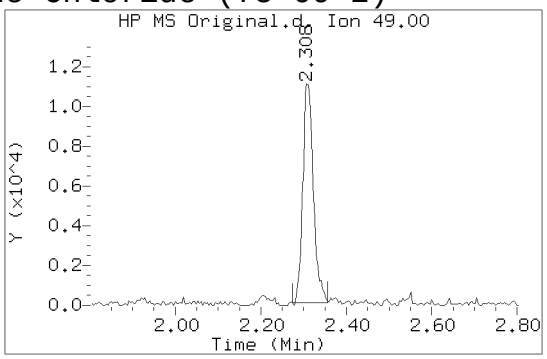


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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

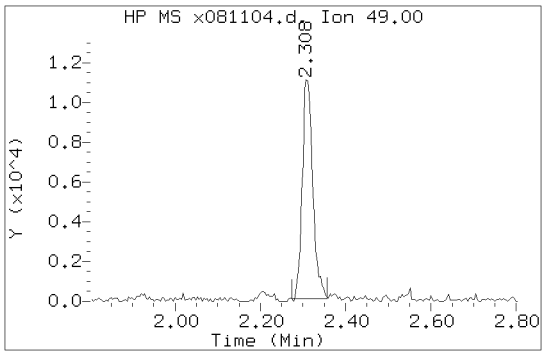
Methylene Chloride (75-09-2)

Reason Code:

BEFORE
MASS
63
AREA
3225
HEIGHT
1896
12-Aug-2023
22:50



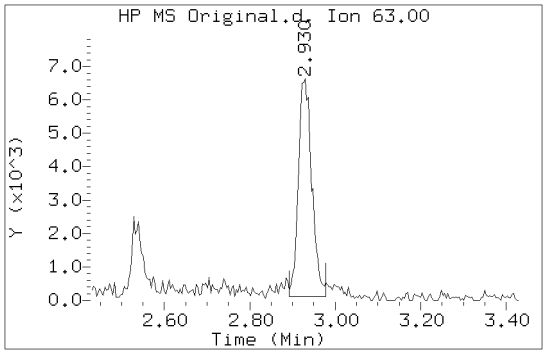
AFTER
MASS
49
AREA
19320
HEIGHT
11010
23-Aug-2023
11:12



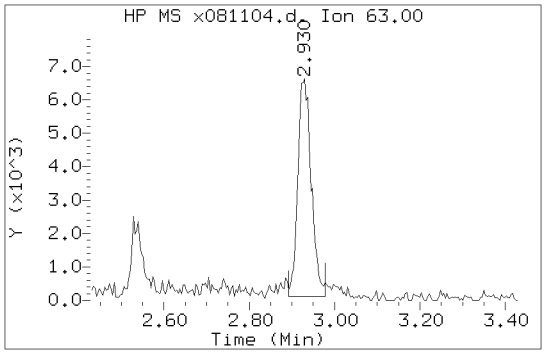
1,1-Dichloroethane (75-34-3)

Reason Code:

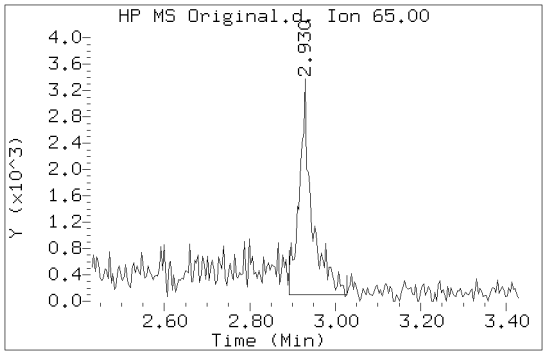
BEFORE
MASS
73
AREA
22118
HEIGHT
11046
12-Aug-2023
22:50



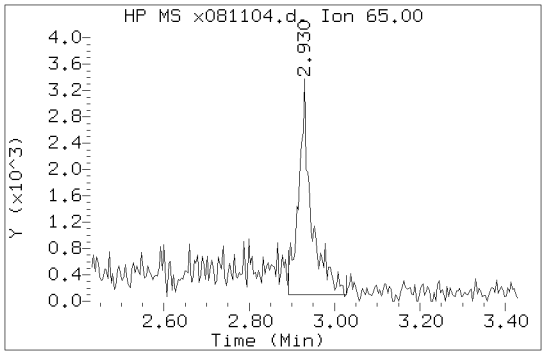
AFTER
MASS
63
AREA
14531
HEIGHT
6510
23-Aug-2023
11:12



BEFORE
MASS
57
AREA
12398
HEIGHT
5186
12-Aug-2023
22:50



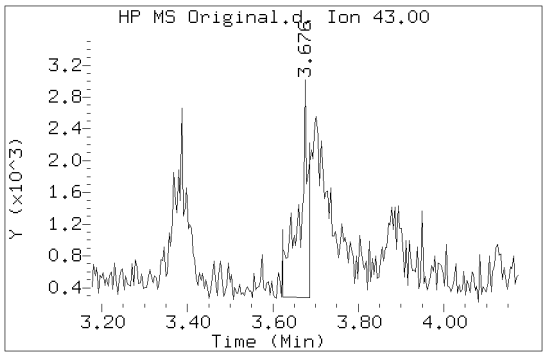
AFTER
MASS
65
AREA
6876
HEIGHT
3277
23-Aug-2023
11:12



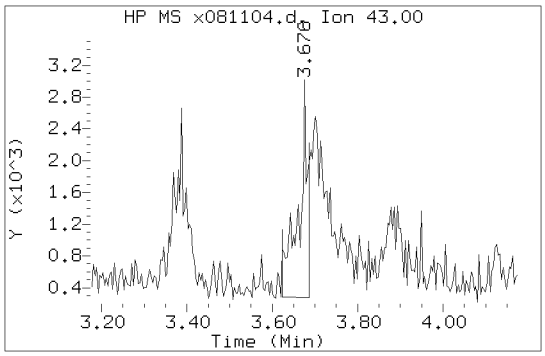
2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
76
AREA
33989
HEIGHT
21317
12-Aug-2023
22:50



AFTER
MASS
43
AREA
4169
HEIGHT
2738
23-Aug-2023
11:12



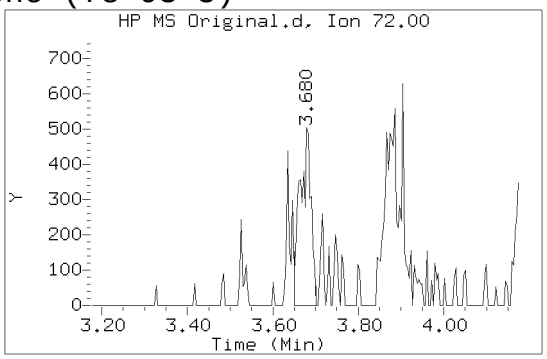
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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

2-Butanone (78-93-3)

Reason Code:

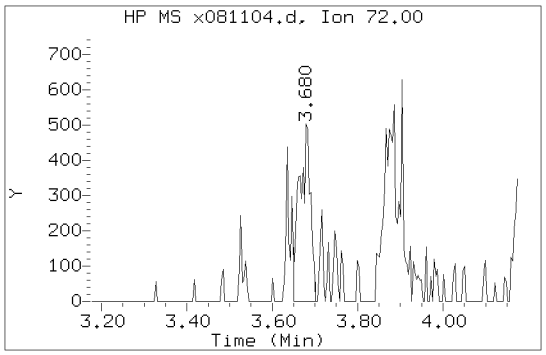
BEFORE

MASS
78
AREA
3581
HEIGHT
2013
12-Aug-2023
22:50



AFTER

MASS
72
AREA
918
HEIGHT
503
23-Aug-2023
11:12

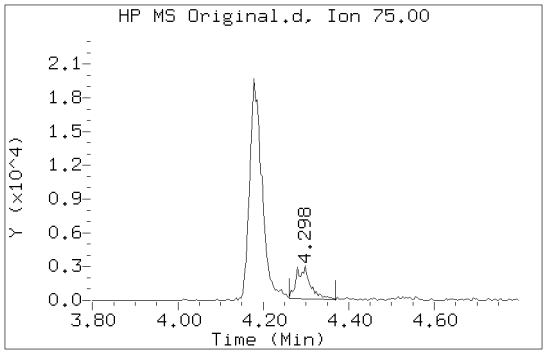


1,1-Dichloropropene (563-58-6)

Reason Code:

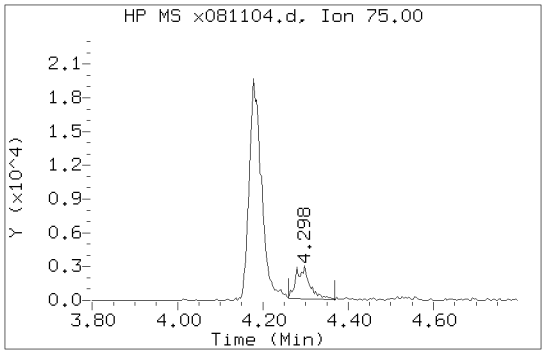
BEFORE

MASS
96
AREA
6391
HEIGHT
3436
12-Aug-2023
22:50



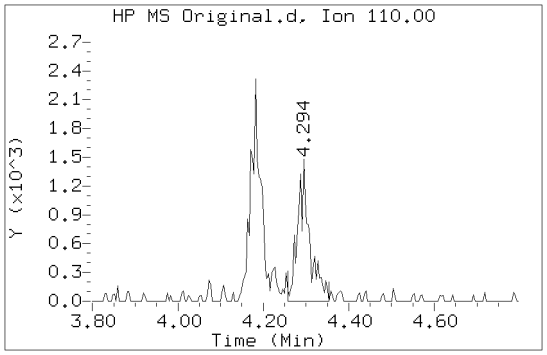
AFTER

MASS
75
AREA
6485
HEIGHT
2955
23-Aug-2023
11:12



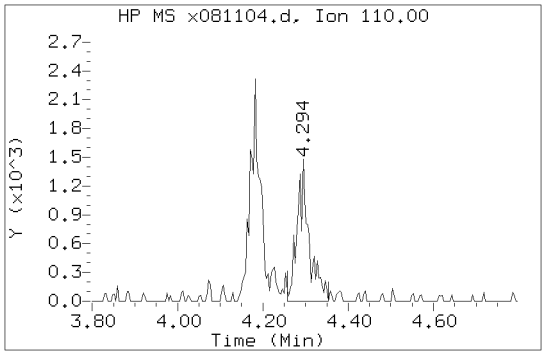
BEFORE

MASS
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AREA
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HEIGHT
3653
12-Aug-2023
22:50



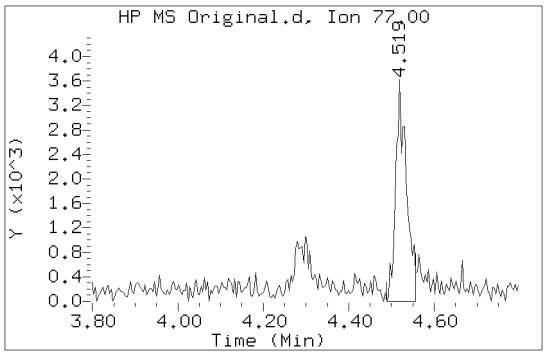
AFTER

MASS
110
AREA
2897
HEIGHT
1478
23-Aug-2023
11:12



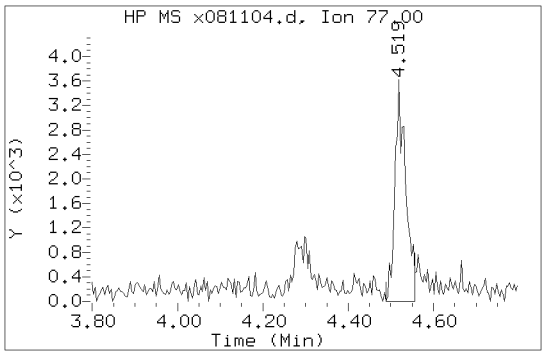
BEFORE

MASS
98
AREA
4326
HEIGHT
2024
12-Aug-2023
22:50



AFTER

MASS
77
AREA
6360
HEIGHT
3621
23-Aug-2023
11:12

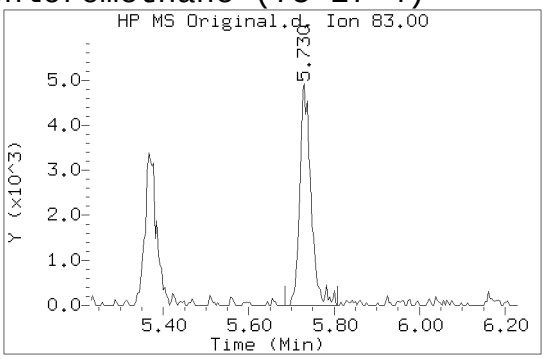


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InstruID : voa6.i
LabSampID : VSTD001

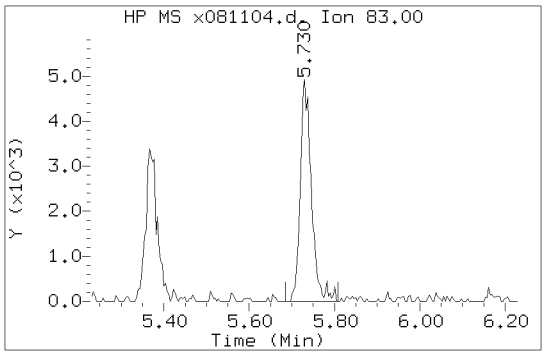
Bromodichloromethane (75-27-4)

Reason Code:

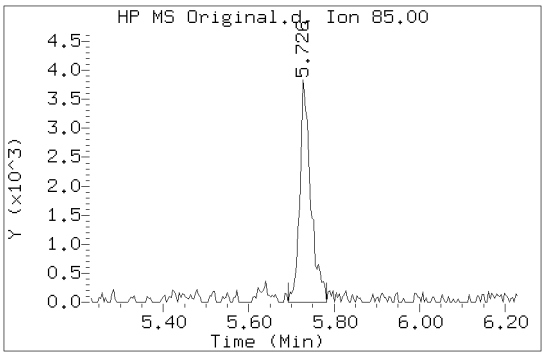
BEFORE
MASS
117
AREA
7329
HEIGHT
3248
12-Aug-2023
22:50



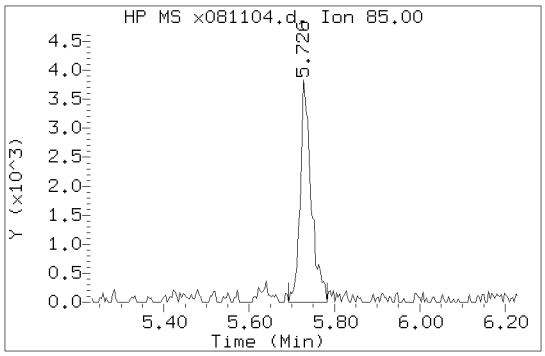
AFTER
MASS
83
AREA
9159
HEIGHT
4921
23-Aug-2023
11:12



BEFORE
MASS
119
AREA
6429
HEIGHT
2759
12-Aug-2023
22:50



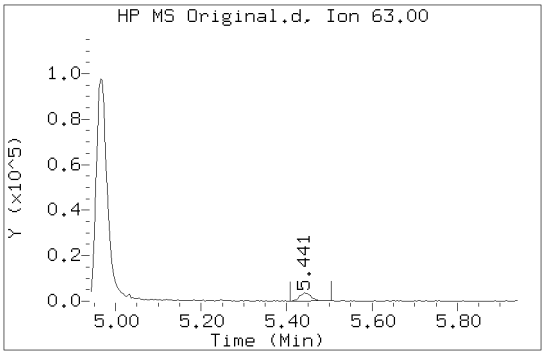
AFTER
MASS
85
AREA
7009
HEIGHT
3834
23-Aug-2023
11:12



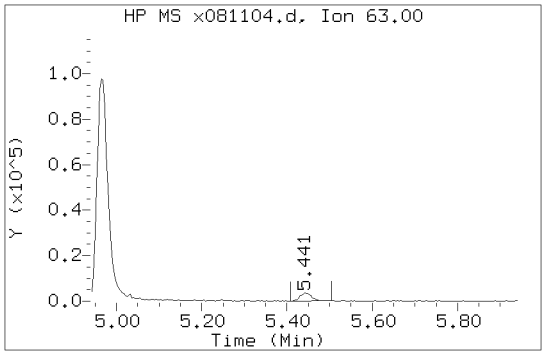
1,2-Dichloropropane (78-87-5)

Reason Code:

BEFORE
MASS
114
AREA
916625
HEIGHT
501315
12-Aug-2023
22:50



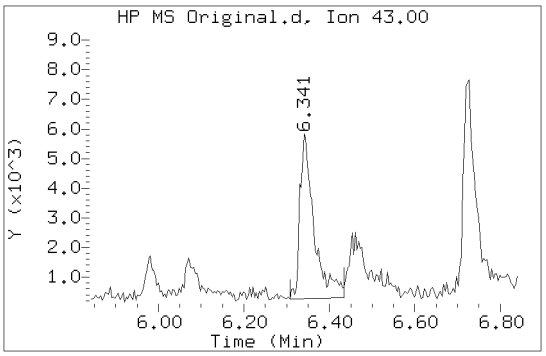
AFTER
MASS
63
AREA
6642
HEIGHT
3674
23-Aug-2023
11:12



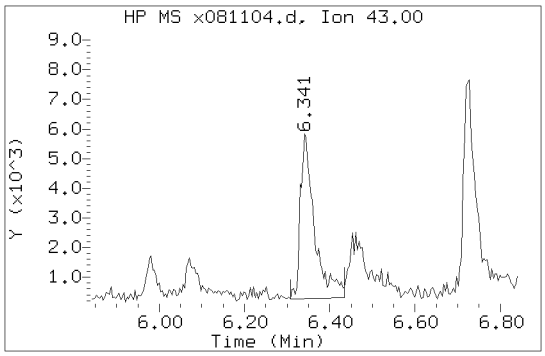
4-Methyl-2-Pentanone (108-10-1)

Reason Code:

BEFORE
MASS
130
AREA
6331
HEIGHT
3663
12-Aug-2023
22:50



AFTER
MASS
43
AREA
13000
HEIGHT
5556
23-Aug-2023
11:12

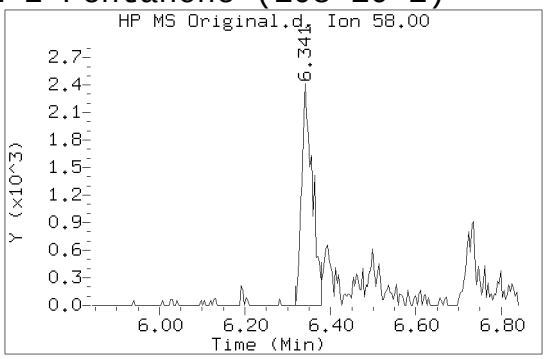


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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

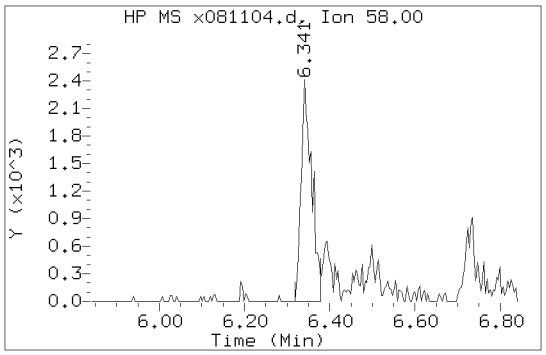
4-Methyl-2-Pentanone (108-10-1)

Reason Code:

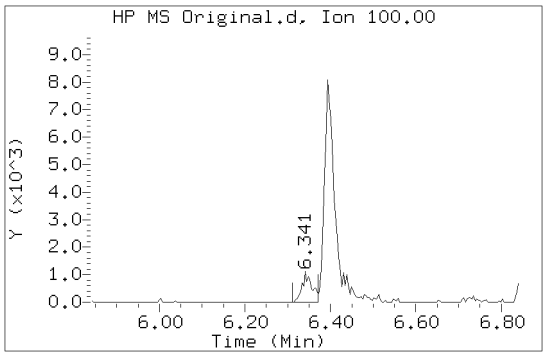
BEFORE
MASS
97
AREA
4440
HEIGHT
2196
12-Aug-2023
22:50



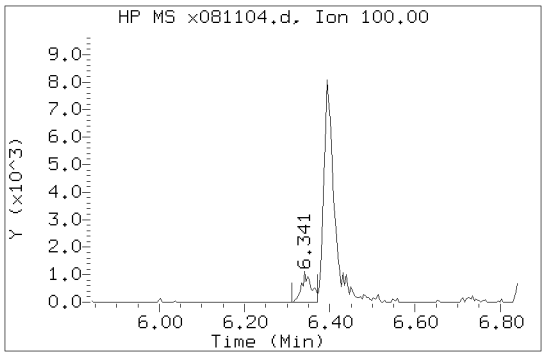
AFTER
MASS
58
AREA
4257
HEIGHT
2414
23-Aug-2023
11:12



BEFORE
MASS
95
AREA
6378
HEIGHT
3813
12-Aug-2023
22:50



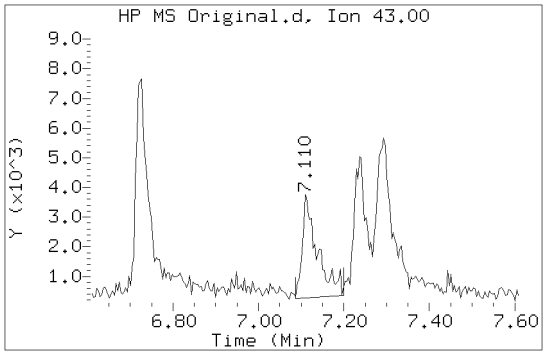
AFTER
MASS
100
AREA
1780
HEIGHT
1123
23-Aug-2023
11:12



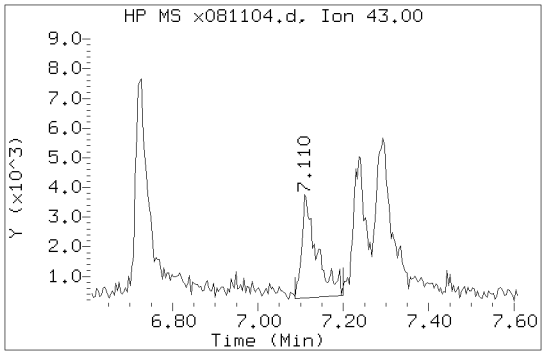
2-Hexanone (591-78-6)

Reason Code:

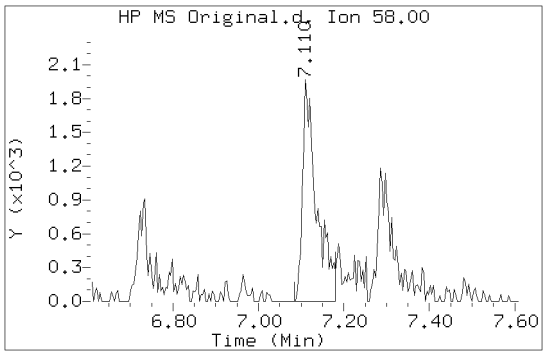
BEFORE
MASS
43
AREA
13000
HEIGHT
5556
12-Aug-2023
22:50



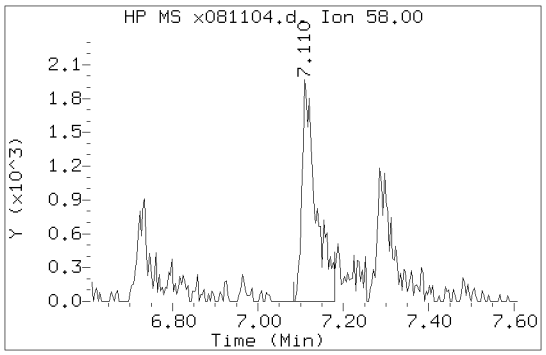
AFTER
MASS
43
AREA
8658
HEIGHT
3477
23-Aug-2023
11:12



BEFORE
MASS
58
AREA
4257
HEIGHT
2414
12-Aug-2023
22:50



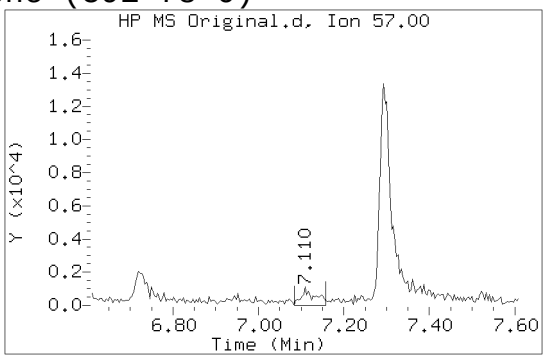
AFTER
MASS
58
AREA
4573
HEIGHT
1967
23-Aug-2023
11:12



Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

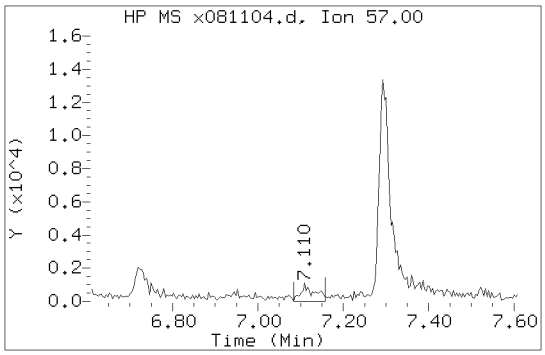
2-Hexanone (591-78-6)

BEFORE
MASS
100
AREA
1780
HEIGHT
1123
12-Aug-2023
22:50



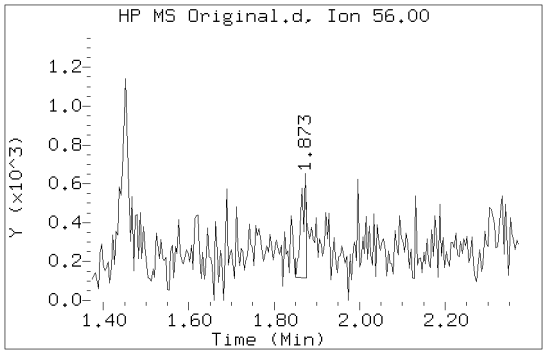
Reason Code:

AFTER
MASS
57
AREA
2385
HEIGHT
1109
23-Aug-2023
11:12



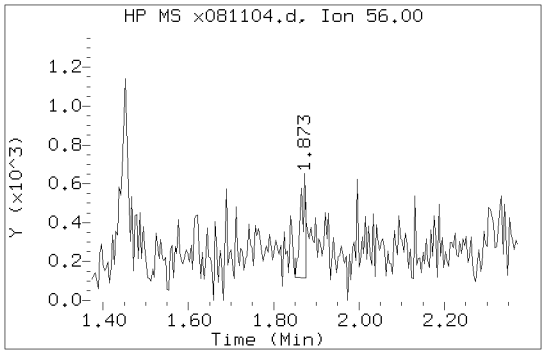
Acrolein (107-02-8)

BEFORE
MASS
76
AREA
11149
HEIGHT
6254
12-Aug-2023
22:50

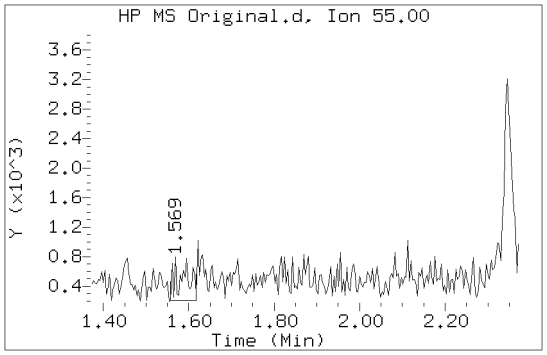


Reason Code:

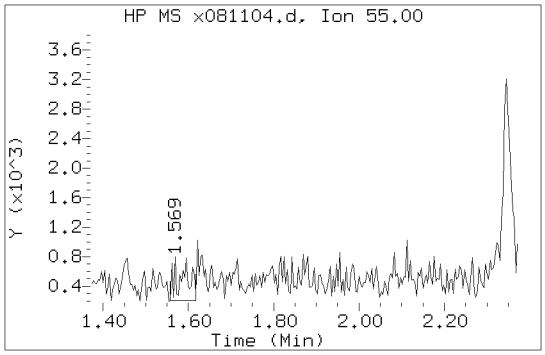
AFTER
MASS
56
AREA
463
HEIGHT
538
23-Aug-2023
11:12



BEFORE
MASS
78
AREA
2915
HEIGHT
1944
12-Aug-2023
22:50

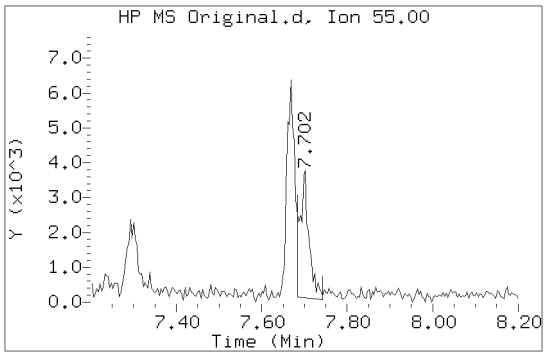


AFTER
MASS
55
AREA
1030
HEIGHT
586
23-Aug-2023
11:12



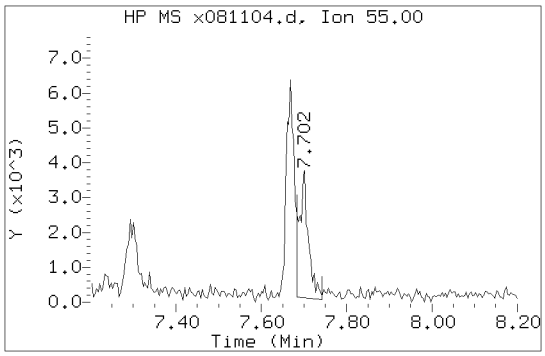
1-Chlorohexane (544-10-5)

BEFORE
MASS
164
AREA
4911
HEIGHT
3482
12-Aug-2023
22:50



Reason Code:

AFTER
MASS
55
AREA
5712
HEIGHT
3660
23-Aug-2023
11:12



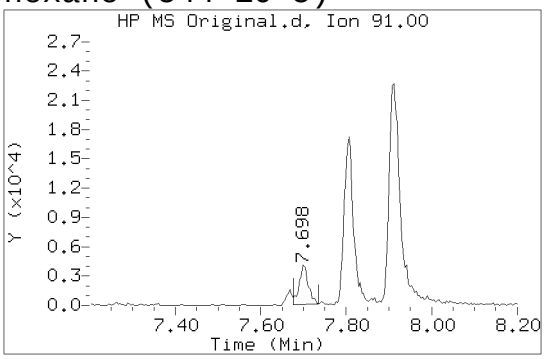
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

1-Chlorohexane (544-10-5)

Reason Code:

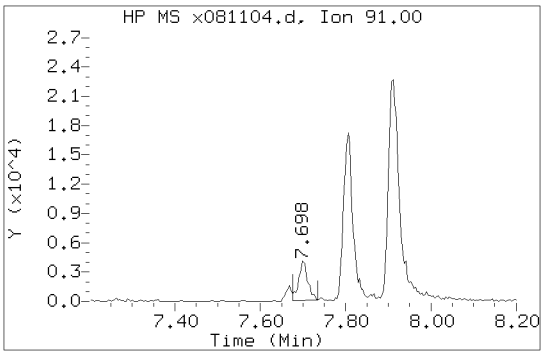
BEFORE

MASS
129
AREA
3751
HEIGHT
2547
12-Aug-2023
22:50



AFTER

MASS
91
AREA
6313
HEIGHT
4090
23-Aug-2023
11:12

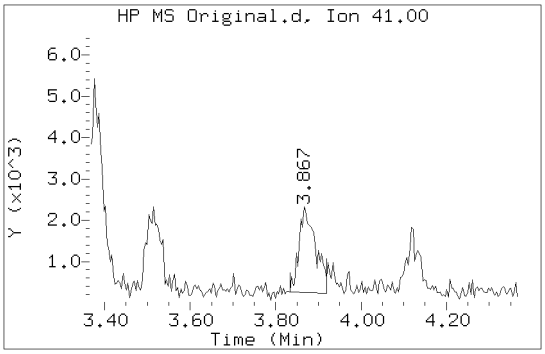


Methacrylonitrile (126-98-7)

Reason Code:

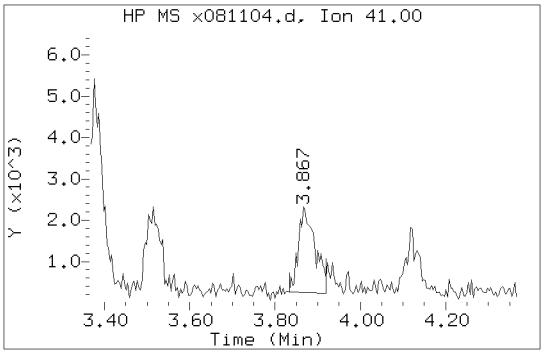
BEFORE

MASS
152
AREA
476655
HEIGHT
320692
12-Aug-2023
22:50



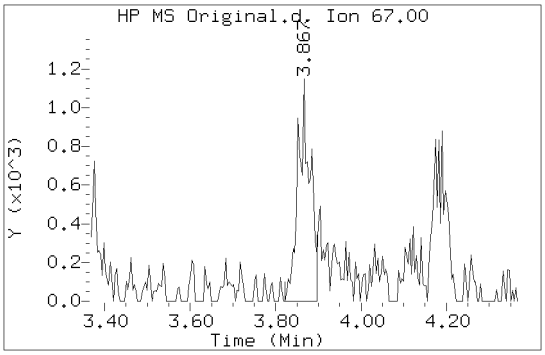
AFTER

MASS
41
AREA
5673
HEIGHT
2076
23-Aug-2023
11:12



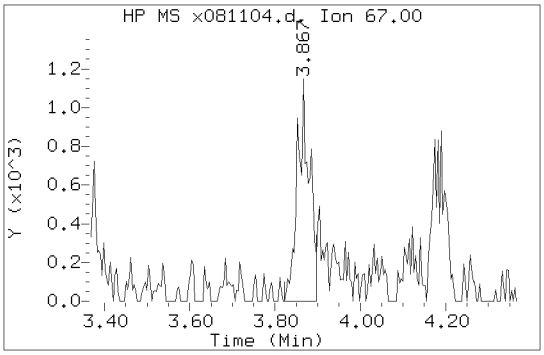
BEFORE

MASS
115
AREA
256989
HEIGHT
183296
12-Aug-2023
22:50



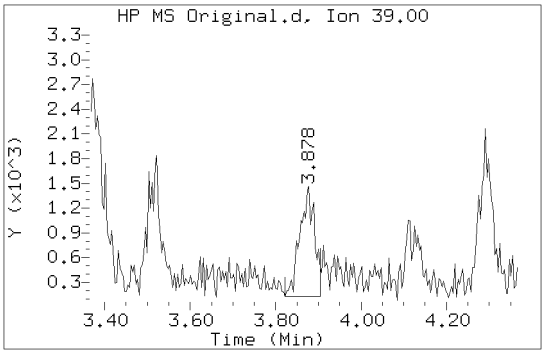
AFTER

MASS
67
AREA
2280
HEIGHT
1148
23-Aug-2023
11:12



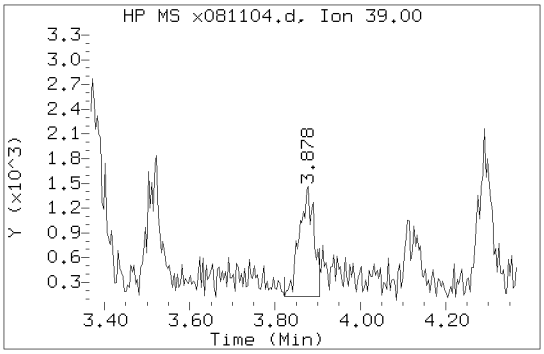
BEFORE

MASS
150
AREA
747243
HEIGHT
511169
12-Aug-2023
22:50



AFTER

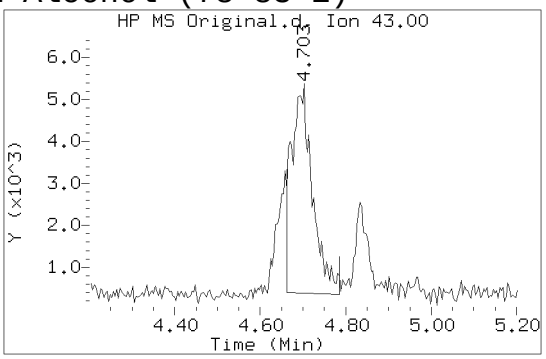
MASS
39
AREA
3209
HEIGHT
1333
23-Aug-2023
11:12



Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
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LabSampID : VSTD001

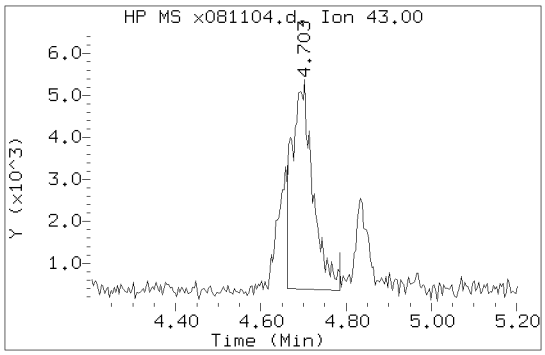
Isobutyl Alcohol (78-83-1)

BEFORE
MASS
75
AREA
5998
HEIGHT
3929
12-Aug-2023
22:50

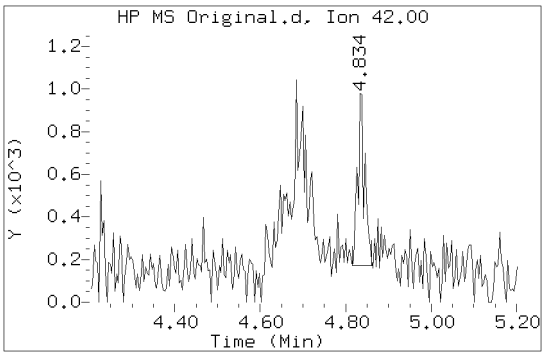


AFTER
MASS
43
AREA
17428
HEIGHT
4985
23-Aug-2023
11:12

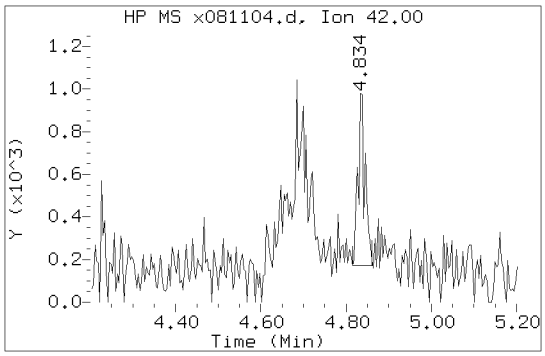
Reason Code:



BEFORE
MASS
77
AREA
3025
HEIGHT
1956
12-Aug-2023
22:50

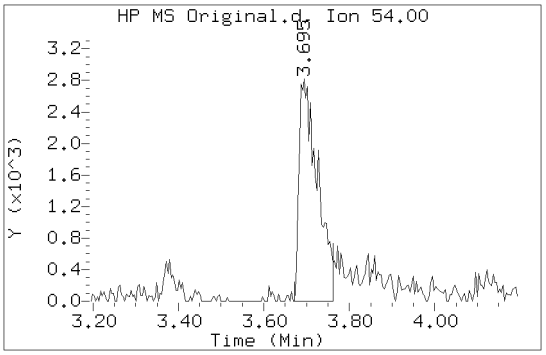


AFTER
MASS
42
AREA
911
HEIGHT
807
23-Aug-2023
11:12



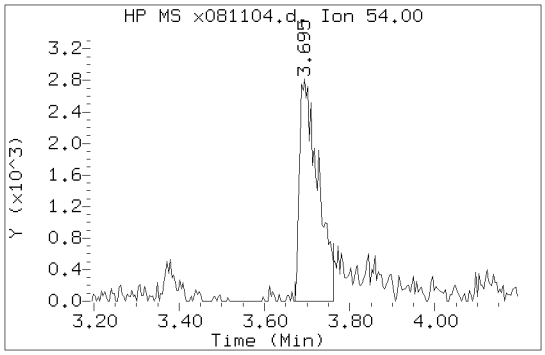
Propionitrile (107-12-0)

BEFORE
MASS
91
AREA
21461
HEIGHT
9564
12-Aug-2023
22:50

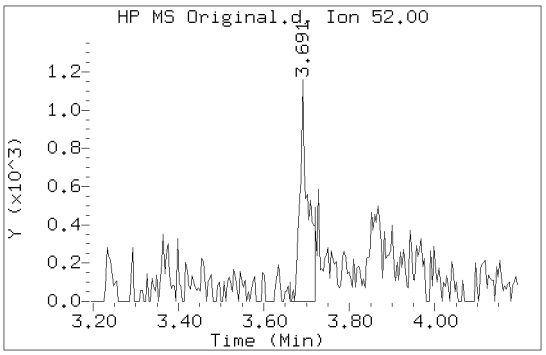


AFTER
MASS
54
AREA
8585
HEIGHT
2819
23-Aug-2023
11:12

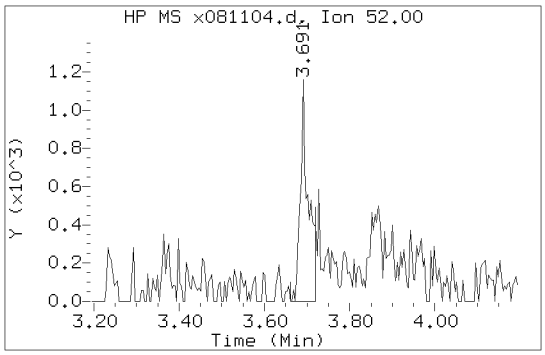
Reason Code:



BEFORE
MASS
126
AREA
6861
HEIGHT
3502
12-Aug-2023
22:50



AFTER
MASS
52
AREA
1544
HEIGHT
1159
23-Aug-2023
11:12

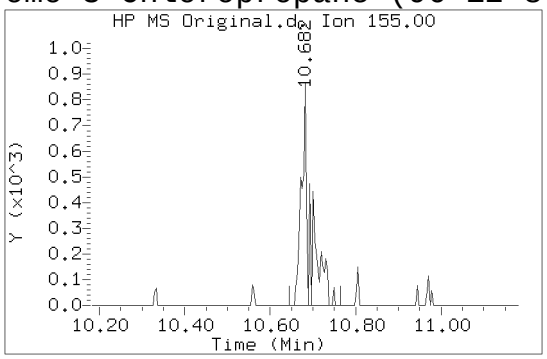


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

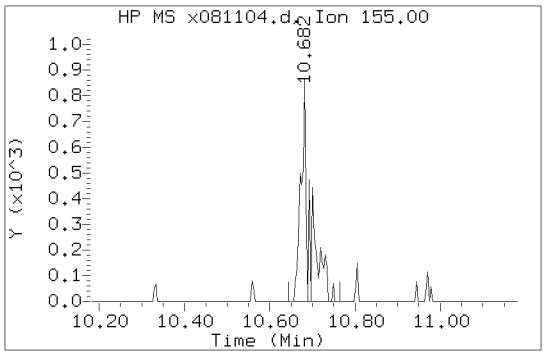
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

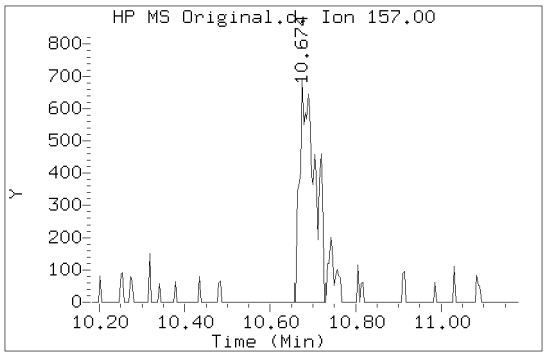
BEFORE
MASS
155
AREA
1274
HEIGHT
863
12-Aug-2023
22:50



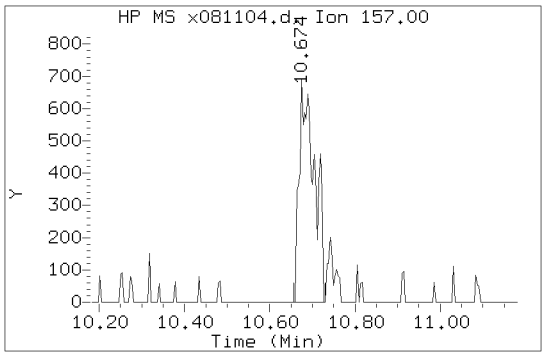
AFTER
MASS
155
AREA
1274
HEIGHT
863
23-Aug-2023
11:12



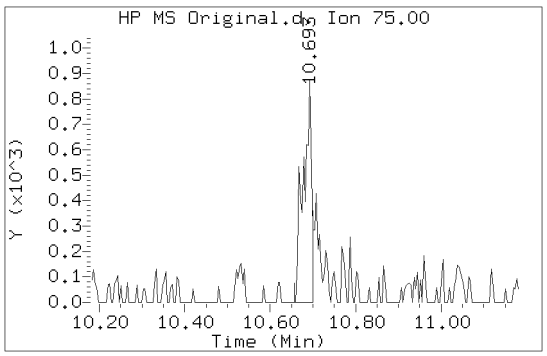
BEFORE
MASS
157
AREA
1735
HEIGHT
689
12-Aug-2023
22:50



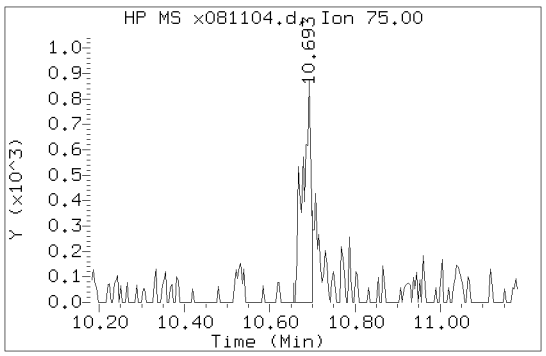
AFTER
MASS
157
AREA
1735
HEIGHT
689
23-Aug-2023
11:12



BEFORE
MASS
75
AREA
1196
HEIGHT
872
12-Aug-2023
22:50



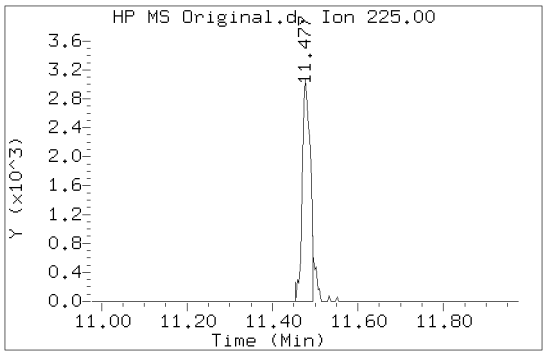
AFTER
MASS
75
AREA
1196
HEIGHT
872
23-Aug-2023
11:12



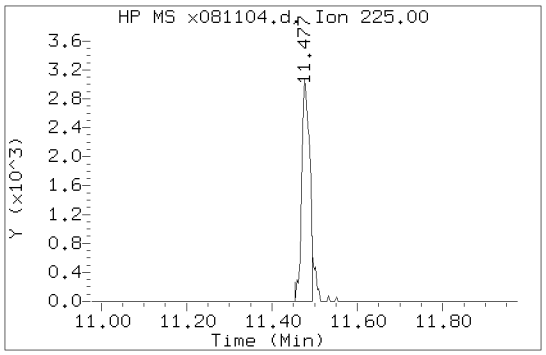
Hexachlorobutadiene (87-68-3)

Reason Code:

BEFORE
MASS
225
AREA
4132
HEIGHT
3064
12-Aug-2023
22:50



AFTER
MASS
225
AREA
4132
HEIGHT
3064
23-Aug-2023
11:12

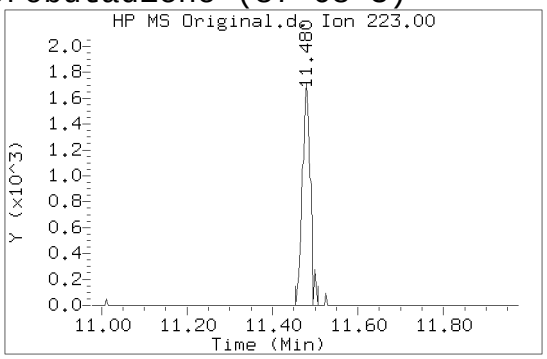


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

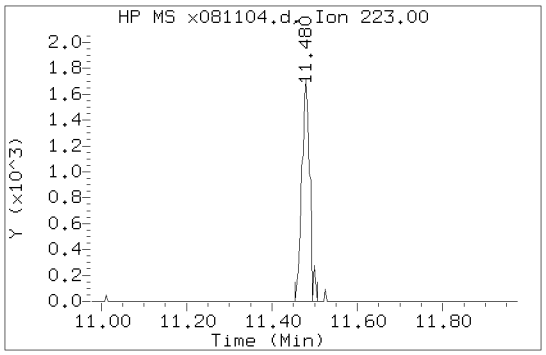
Hexachlorobutadiene (87-68-3)

Reason Code:

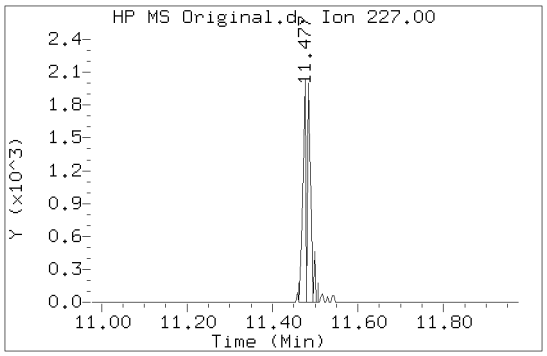
BEFORE
MASS
223
AREA
2286
HEIGHT
1712
12-Aug-2023
22:50



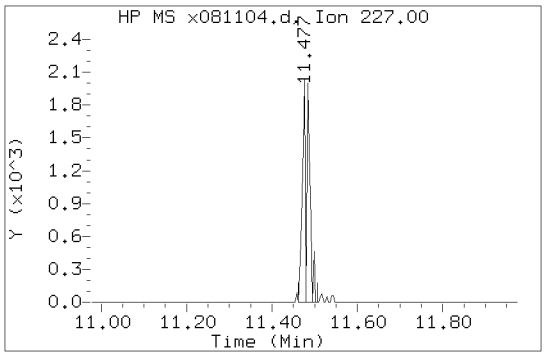
AFTER
MASS
223
AREA
2286
HEIGHT
1712
23-Aug-2023
11:12



BEFORE
MASS
227
AREA
2066
HEIGHT
2030
12-Aug-2023
22:50



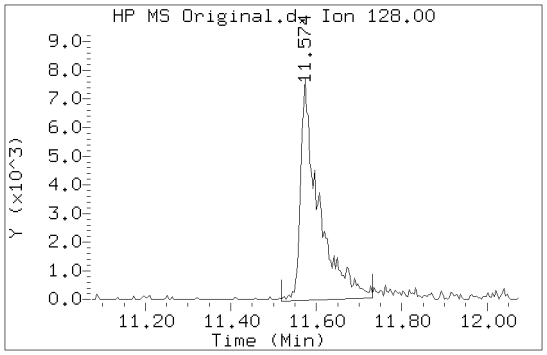
AFTER
MASS
227
AREA
2066
HEIGHT
2030
23-Aug-2023
11:12



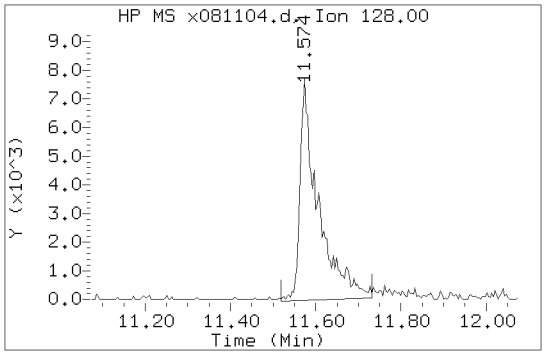
Naphthalene (91-20-3)

Reason Code:

BEFORE
MASS
128
AREA
23210
HEIGHT
7730
12-Aug-2023
22:50



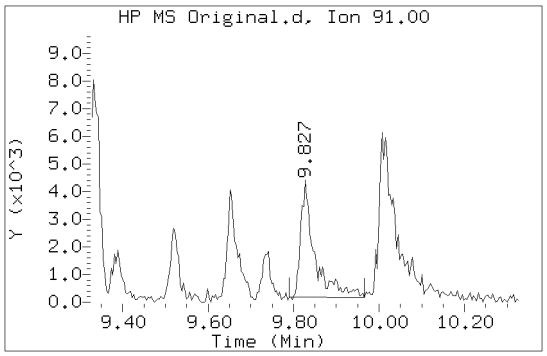
AFTER
MASS
128
AREA
23210
HEIGHT
7730
23-Aug-2023
11:12



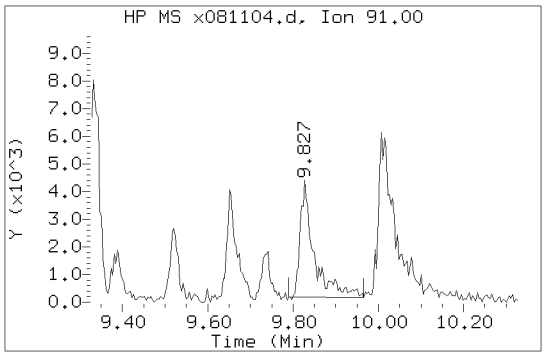
Benzyl Chloride (100-44-7)

Reason Code:

BEFORE
MASS
53
AREA
2338
HEIGHT
850
12-Aug-2023
22:50



AFTER
MASS
91
AREA
9809
HEIGHT
4242
23-Aug-2023
11:12

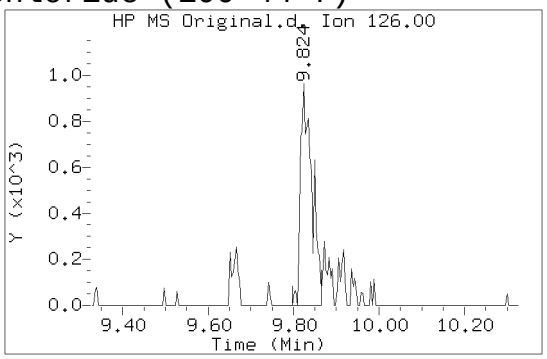


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

Benzyl Chloride (100-44-7)

BEFORE

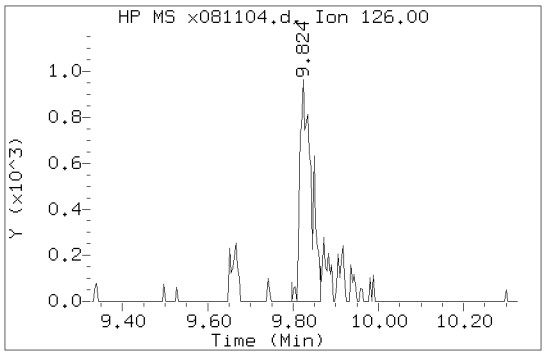
MASS
75
AREA
1352
HEIGHT
922
12-Aug-2023
22:50



AFTER

MASS
126
AREA
1816
HEIGHT
964
23-Aug-2023
11:12

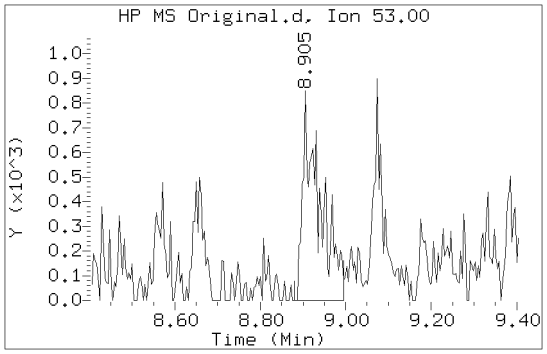
Reason Code:



trans-1,4-Dichloro-2-butene (110-57-6)

BEFORE

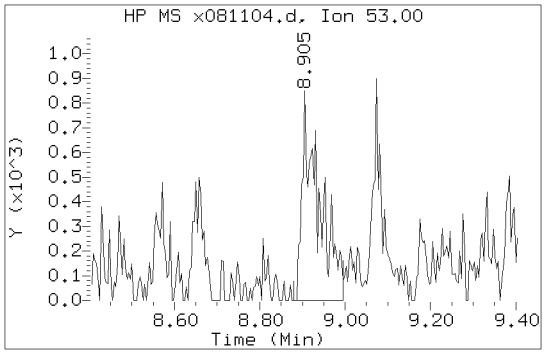
MASS
53
AREA
2637
HEIGHT
2155
12-Aug-2023
22:50



AFTER

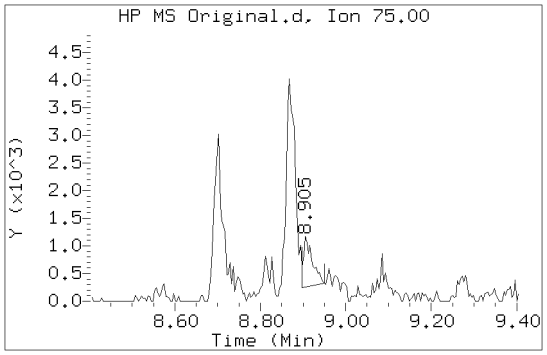
MASS
53
AREA
2338
HEIGHT
850
23-Aug-2023
11:12

Reason Code:



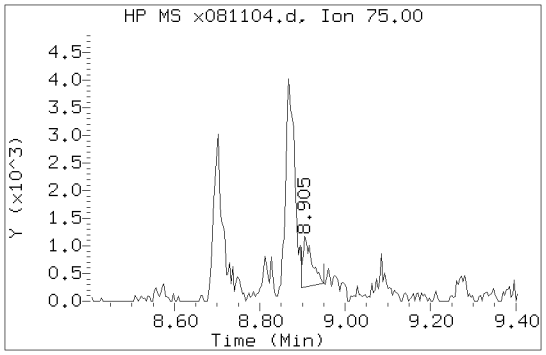
BEFORE

MASS
88
AREA
0
HEIGHT
0
12-Aug-2023
22:50



AFTER

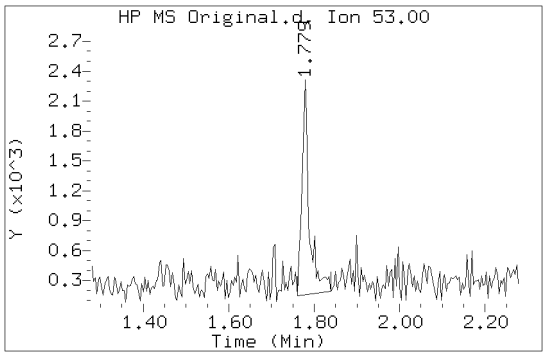
MASS
75
AREA
1352
HEIGHT
922
23-Aug-2023
11:12



Chloroprene (126-99-8)

BEFORE

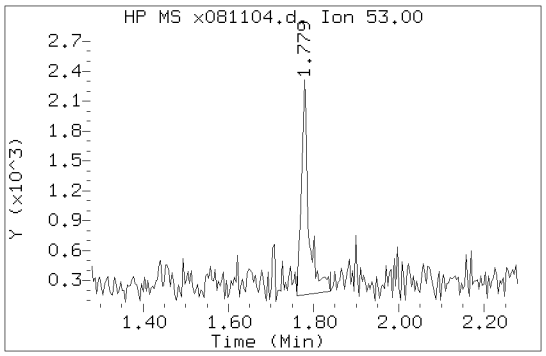
MASS
43
AREA
6893
HEIGHT
2620
12-Aug-2023
22:50



AFTER

MASS
53
AREA
2637
HEIGHT
2155
23-Aug-2023
11:12

Reason Code:



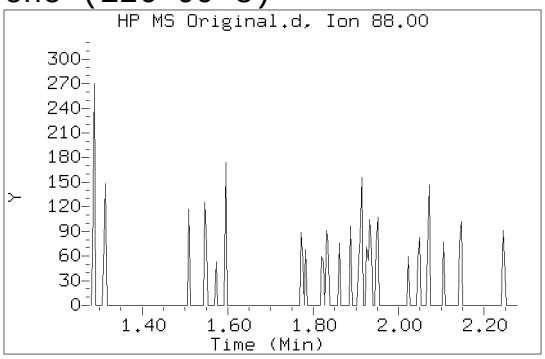
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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

Chloroprene (126-99-8)

Reason Code:

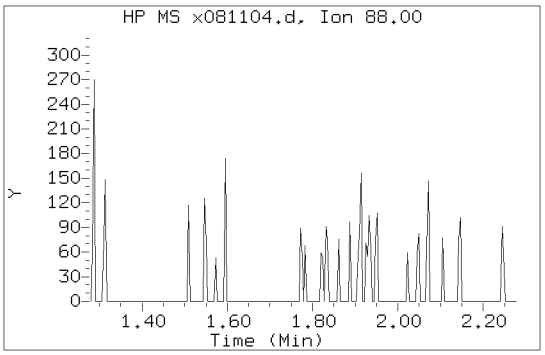
BEFORE

MASS
61
AREA
0
HEIGHT
0
12-Aug-2023
22:50



AFTER

MASS
88
AREA
0
HEIGHT
0
23-Aug-2023
11:12

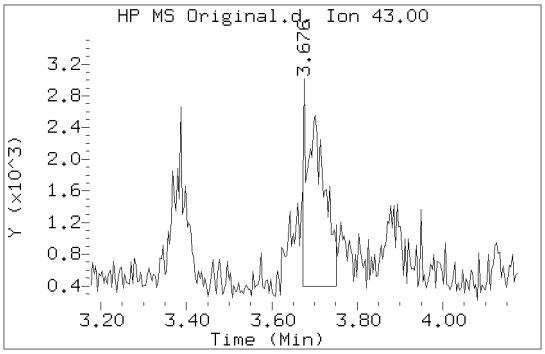


Ethyl Acetate (141-78-6)

Reason Code:

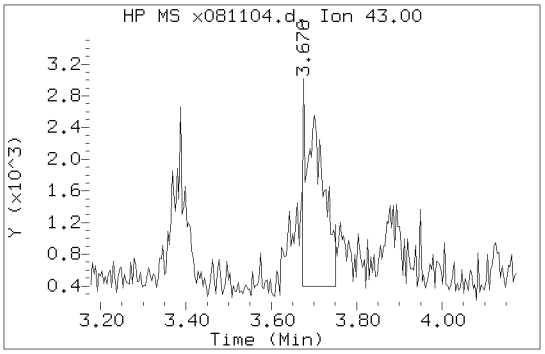
BEFORE

MASS
55
AREA
6078
HEIGHT
1428
12-Aug-2023
22:50



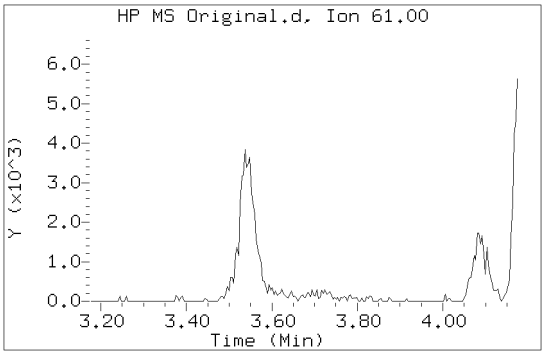
AFTER

MASS
43
AREA
6893
HEIGHT
2620
23-Aug-2023
11:12



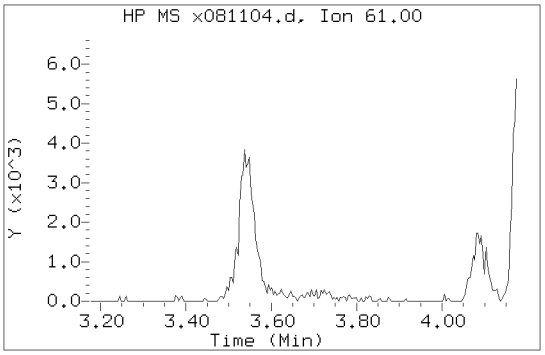
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Aug-2023
22:50



AFTER

MASS
61
AREA
0
HEIGHT
0
23-Aug-2023
11:12

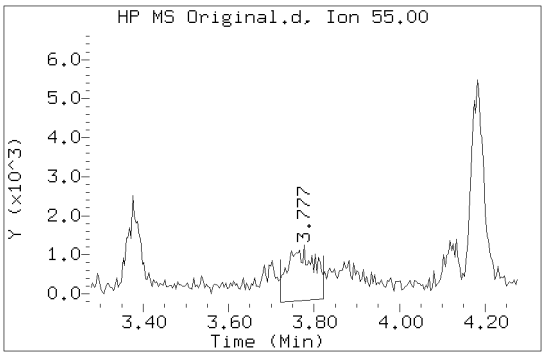


Methyl Acrylate (96-33-3)

Reason Code:

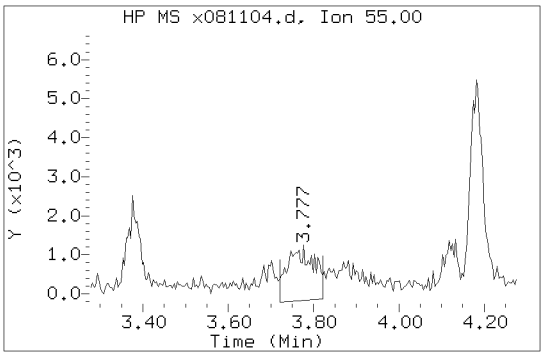
BEFORE

MASS
56
AREA
2659
HEIGHT
1447
12-Aug-2023
22:50



AFTER

MASS
55
AREA
6078
HEIGHT
1428
23-Aug-2023
11:12

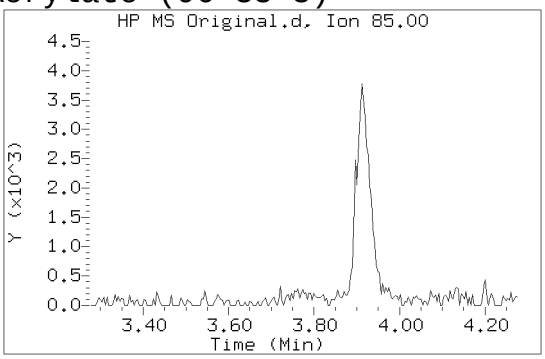


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

BEFORE

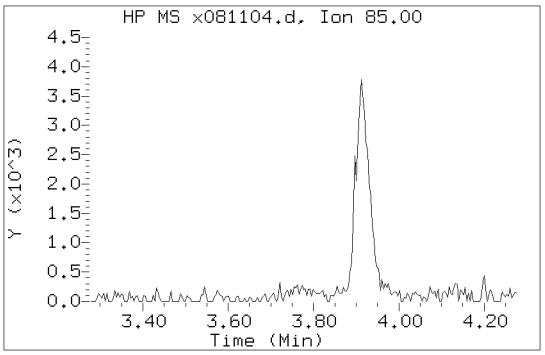
MASS
41
AREA
3757
HEIGHT
1633
12-Aug-2023
22:50



AFTER

MASS
85
AREA
0
HEIGHT
0
23-Aug-2023
11:12

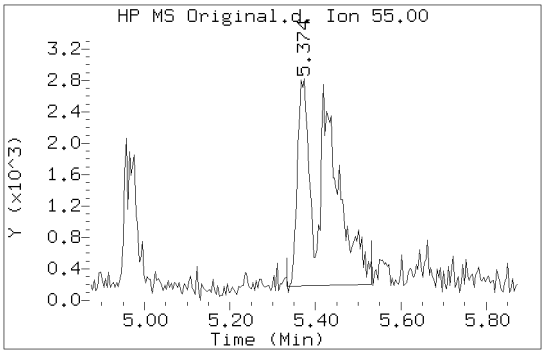
Reason Code:



Ethyl Acrylate (140-88-5)

BEFORE

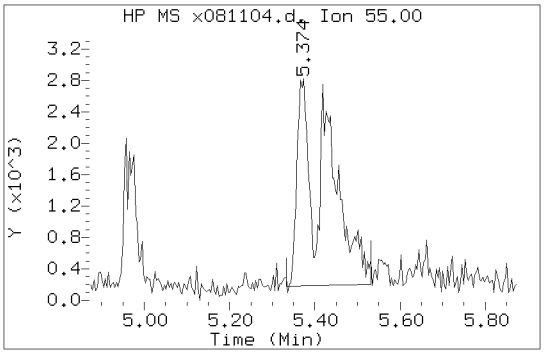
MASS
55
AREA
7180
HEIGHT
5609
12-Aug-2023
22:50



AFTER

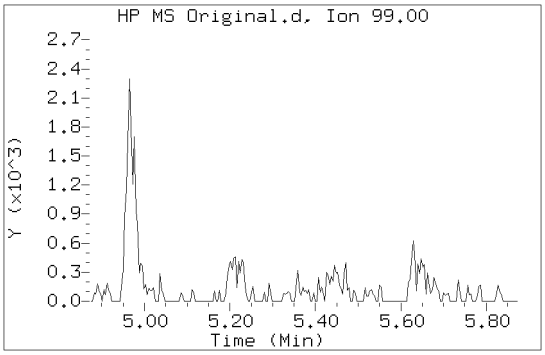
MASS
55
AREA
12771
HEIGHT
2638
23-Aug-2023
11:12

Reason Code:



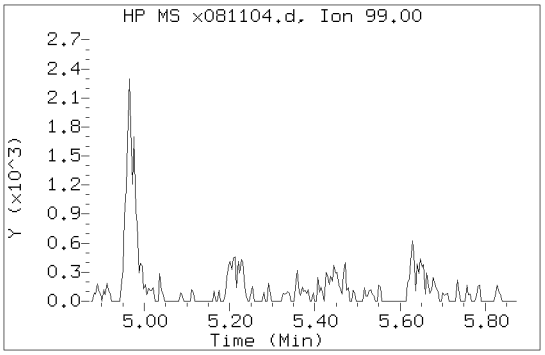
BEFORE

MASS
42
AREA
7056
HEIGHT
4197
12-Aug-2023
22:50



AFTER

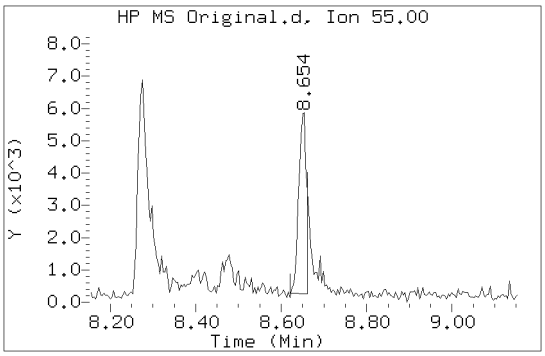
MASS
99
AREA
0
HEIGHT
0
23-Aug-2023
11:12



Cyclohexanone (108-94-1)

BEFORE

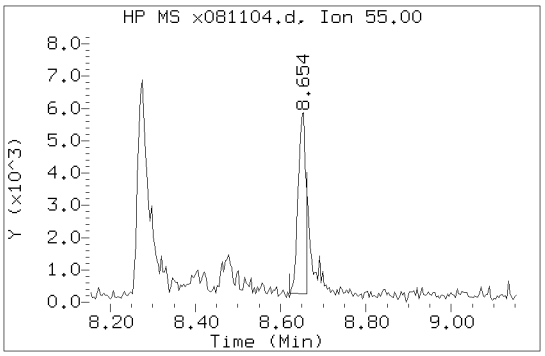
MASS
88
AREA
1553
HEIGHT
996
12-Aug-2023
22:50



AFTER

MASS
55
AREA
7180
HEIGHT
5609
23-Aug-2023
11:12

Reason Code:



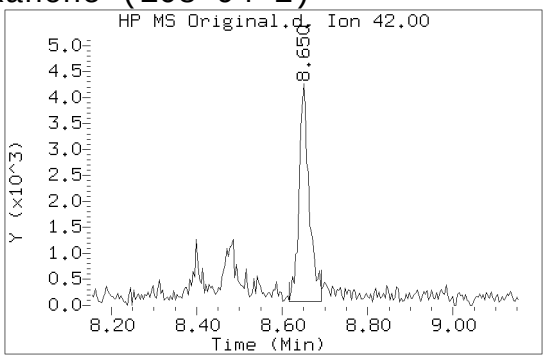
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

Cyclohexanone (108-94-1)

Reason Code:

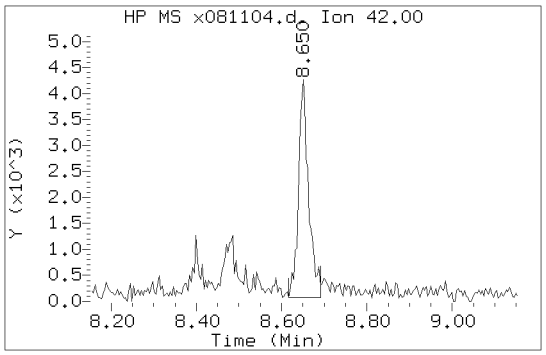
BEFORE

MASS
58
AREA
1534
HEIGHT
1243
12-Aug-2023
22:50



AFTER

MASS
42
AREA
7056
HEIGHT
4197
23-Aug-2023
11:12

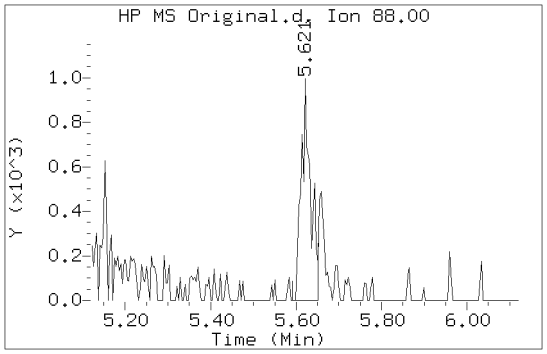


1,4-Dioxane ()

Reason Code:

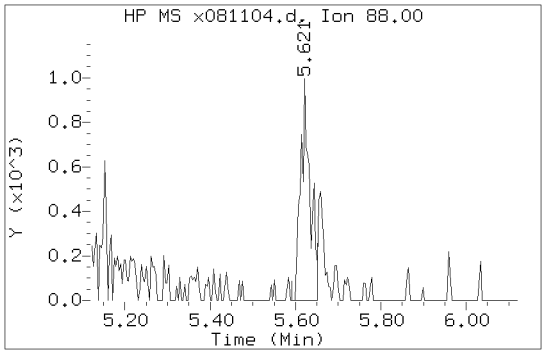
BEFORE

MASS
57
AREA
6841
HEIGHT
2866
12-Aug-2023
22:50



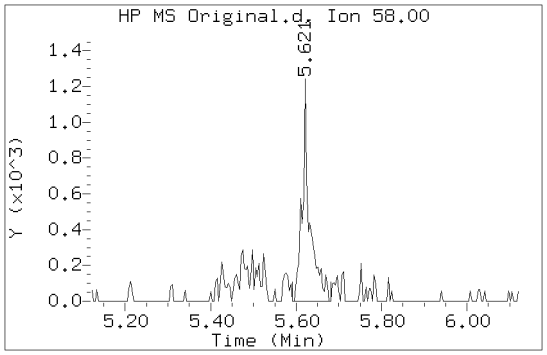
AFTER

MASS
88
AREA
1553
HEIGHT
996
23-Aug-2023
11:12



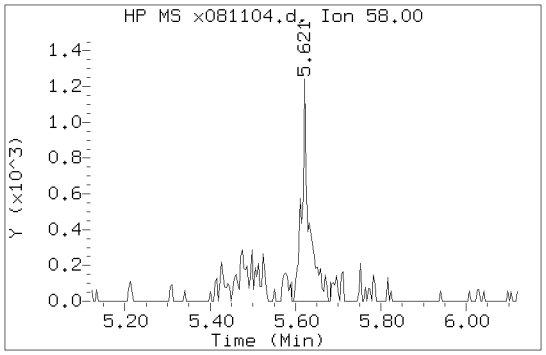
BEFORE

MASS
41
AREA
4034
HEIGHT
2416
12-Aug-2023
22:50



AFTER

MASS
58
AREA
1534
HEIGHT
1243
23-Aug-2023
11:12

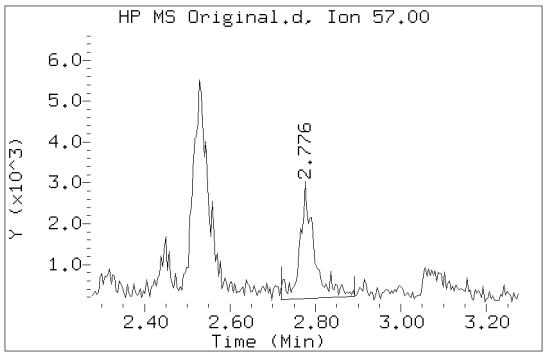


n-Hexane (110-54-3)

Reason Code:

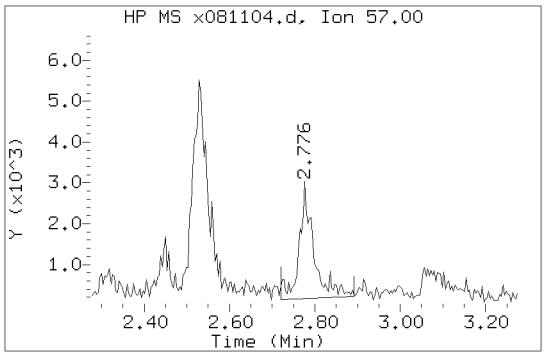
BEFORE

MASS
59
AREA
5859
HEIGHT
3734
12-Aug-2023
22:50



AFTER

MASS
57
AREA
6841
HEIGHT
2866
23-Aug-2023
11:12

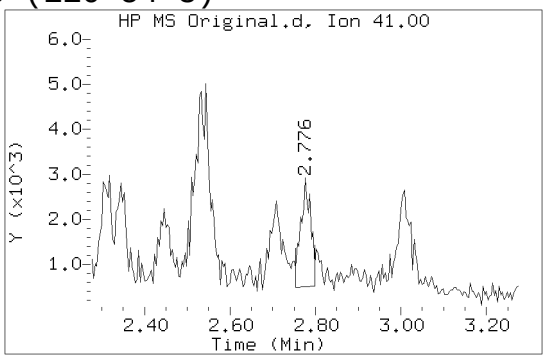


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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

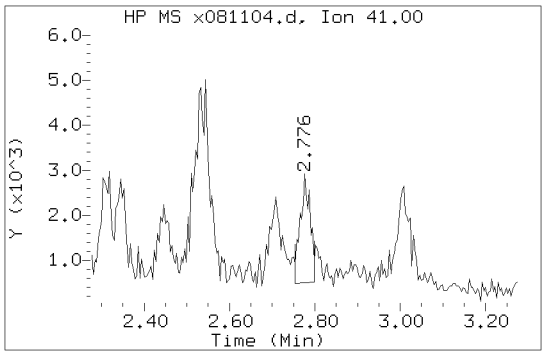
n-Hexane (110-54-3)

Reason Code:

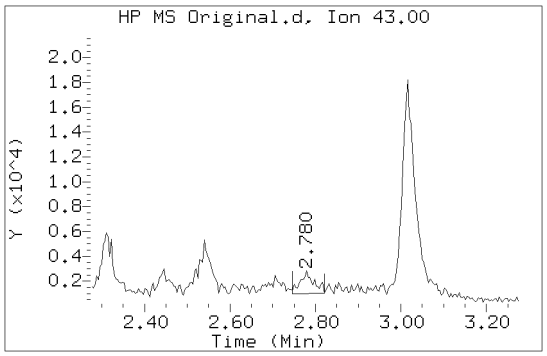
BEFORE
MASS
74
AREA
5241
HEIGHT
3056
12-Aug-2023
22:50



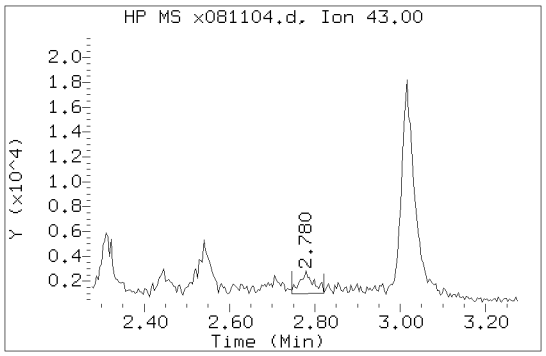
AFTER
MASS
41
AREA
4034
HEIGHT
2416
23-Aug-2023
11:12



BEFORE
MASS
45
AREA
4217
HEIGHT
3242
12-Aug-2023
22:50



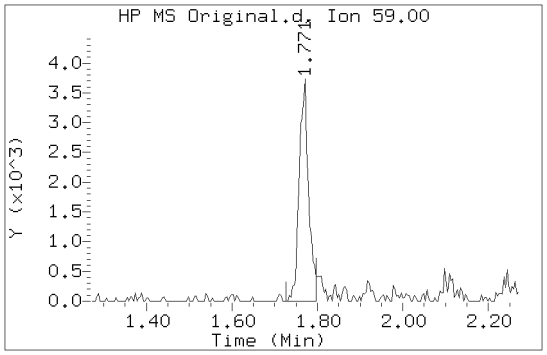
AFTER
MASS
43
AREA
3979
HEIGHT
1820
23-Aug-2023
11:12



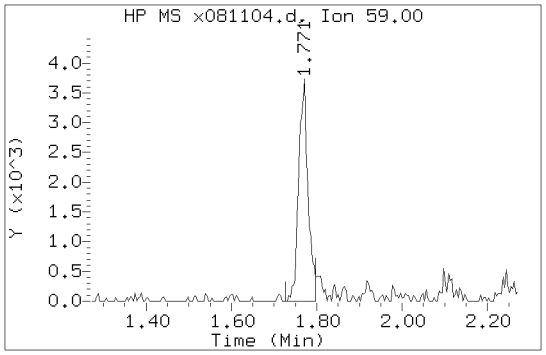
Diethyl ether (60-29-7)

Reason Code:

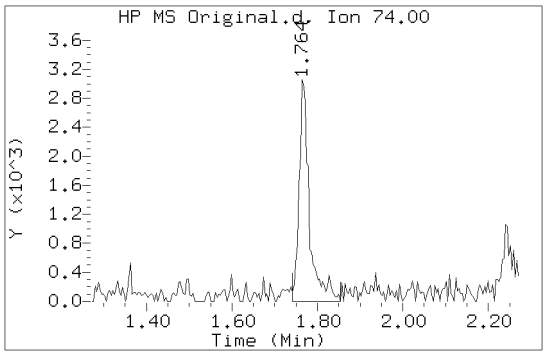
BEFORE
MASS
54
AREA
5912
HEIGHT
6761
12-Aug-2023
22:50



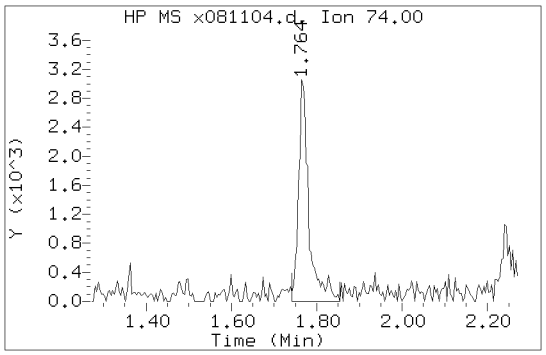
AFTER
MASS
59
AREA
5859
HEIGHT
3734
23-Aug-2023
11:12



BEFORE
MASS
53
AREA
3952
HEIGHT
3847
12-Aug-2023
22:50



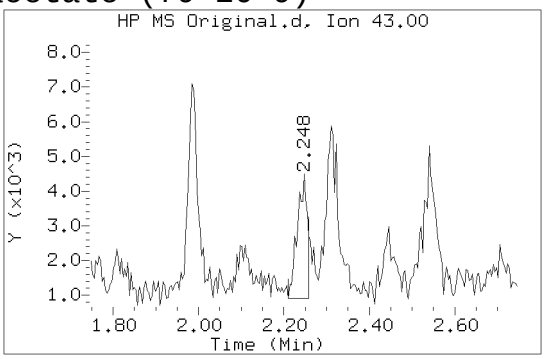
AFTER
MASS
74
AREA
5241
HEIGHT
3056
23-Aug-2023
11:12



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InstruID : voa6.i
LabSampID : VSTD001

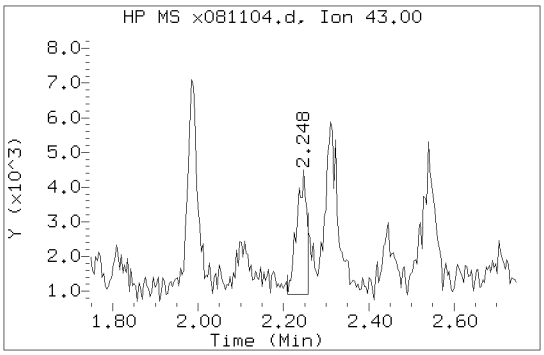
Methyl acetate (79-20-9)

BEFORE
MASS
101
AREA
4459
HEIGHT
2440
12-Aug-2023
22:50

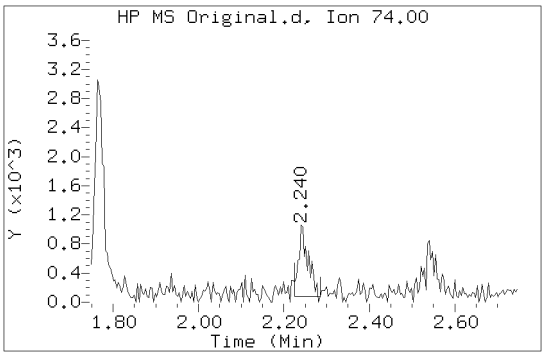


Reason Code:

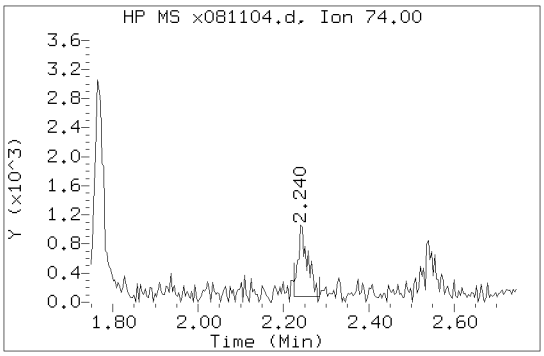
AFTER
MASS
43
AREA
5952
HEIGHT
3593
23-Aug-2023
11:12



BEFORE
MASS
151
AREA
3753
HEIGHT
2002
12-Aug-2023
22:50

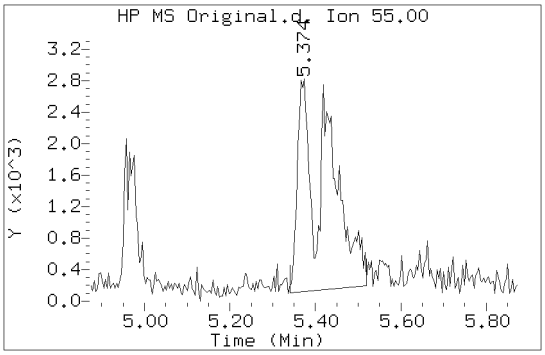


AFTER
MASS
74
AREA
1517
HEIGHT
975
23-Aug-2023
11:12



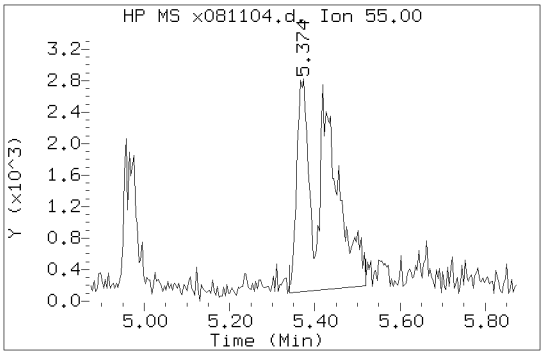
Methylcyclohexane (108-87-2)

BEFORE
MASS
118
AREA
9352
HEIGHT
6614
12-Aug-2023
22:50

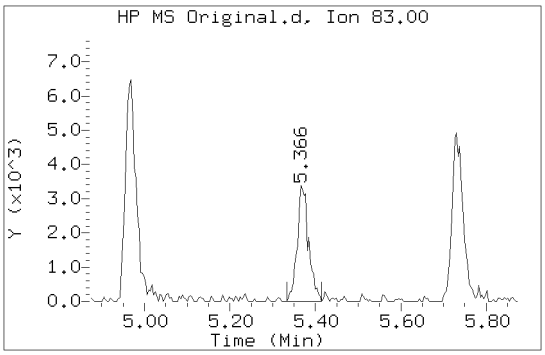


Reason Code:

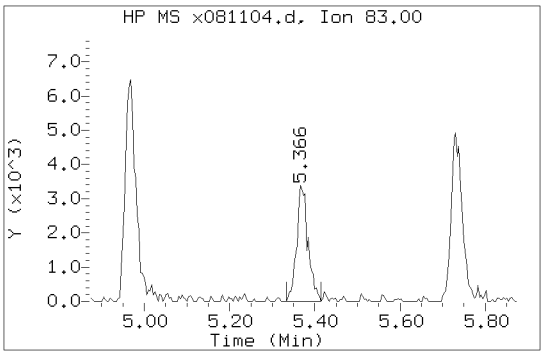
AFTER
MASS
55
AREA
13003
HEIGHT
2701
23-Aug-2023
11:12



BEFORE
MASS
103
AREA
5656
HEIGHT
3410
12-Aug-2023
22:50



AFTER
MASS
83
AREA
6392
HEIGHT
3382
23-Aug-2023
11:12

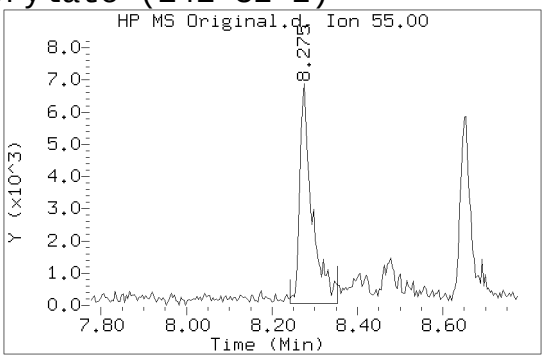


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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

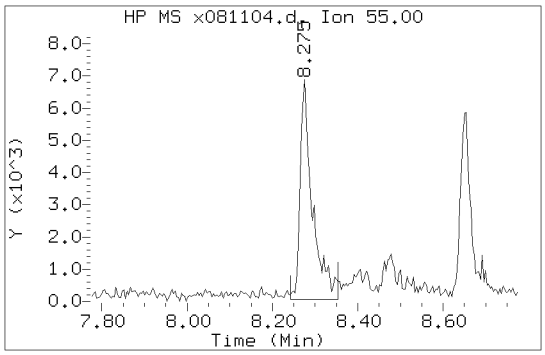
Butyl acrylate (141-32-2)

Reason Code:

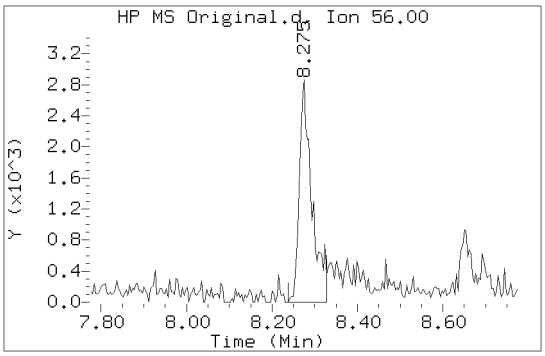
BEFORE
MASS
44
AREA
4717
HEIGHT
4655
12-Aug-2023
22:50



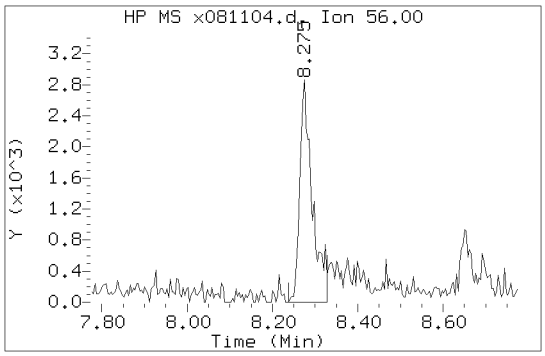
AFTER
MASS
55
AREA
14061
HEIGHT
6826
23-Aug-2023
11:12



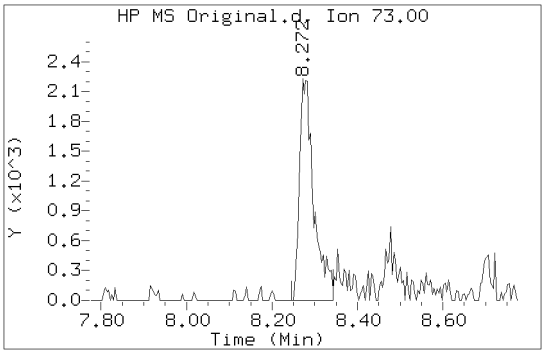
BEFORE
MASS
43
AREA
0
HEIGHT
0
12-Aug-2023
22:50



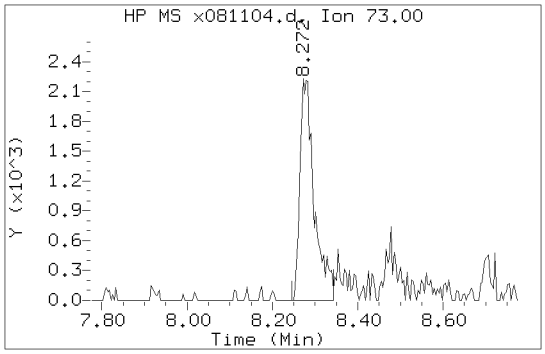
AFTER
MASS
56
AREA
5918
HEIGHT
2863
23-Aug-2023
11:12



BEFORE
MASS
42
AREA
0
HEIGHT
0
12-Aug-2023
22:50



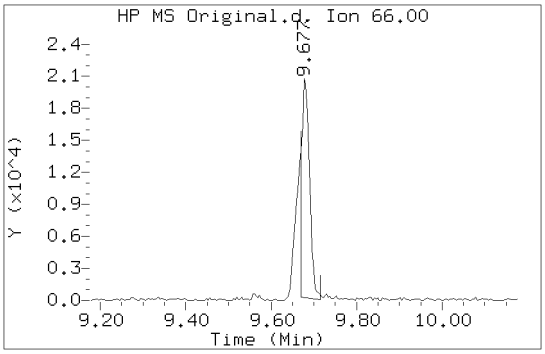
AFTER
MASS
73
AREA
5292
HEIGHT
2231
23-Aug-2023
11:12



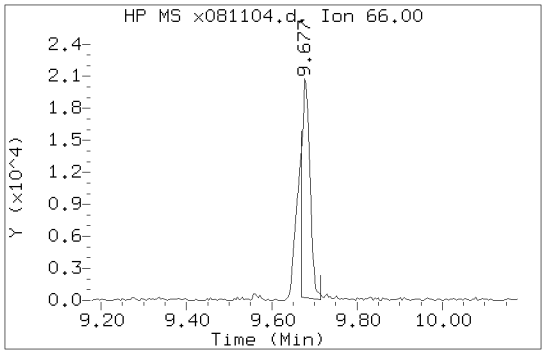
Dicyclopentadiene (77-73-6)

Reason Code:

BEFORE
MASS
41
AREA
886
HEIGHT
818
12-Aug-2023
22:50



AFTER
MASS
66
AREA
27109
HEIGHT
20508
23-Aug-2023
11:12



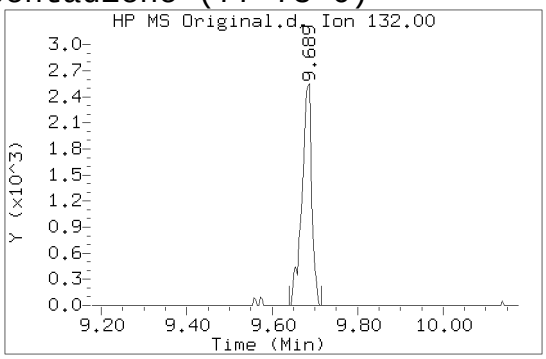
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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

Dicyclopentadiene (77-73-6)

Reason Code:

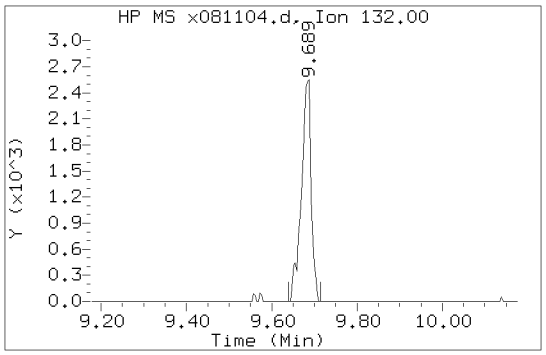
BEFORE

MASS
56
AREA
0
HEIGHT
0
12-Aug-2023
22:50



AFTER

MASS
132
AREA
4182
HEIGHT
2551
23-Aug-2023
11:12



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081105.D Page 1
Report Date: 23-Aug-2023 11:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081105.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 11-AUG-2023 12:55
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 12:55 Cal File: X081105.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	592297	50.0000	
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	11597	2.00000	2.77
3	Chloromethane	50	1.085	1.085	(0.260)	11158	2.00000	1.93(M)
4	Propionitrile	54	3.686	3.686	(0.882)	15043	20.0000	18.23(a)
5	Vinyl Chloride	62	1.149	1.149	(0.275)	14331	2.00000	2.01
6	Bromomethane	94	1.344	1.344	(0.321)	7835	2.00000	2.04
7	Chloroethane	64	1.411	1.411	(0.338)	9899	2.00000	2.12
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	20104	2.00000	1.98
9	Acrolein	56	1.868	1.868	(0.447)	887	4.00000	1.94(aM)
11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	12243	2.00000	2.14
12	Isobutyl Alcohol	43	4.695	4.695	(1.123)	36780	40.0000	39.61(a)
13	Acetonitrile	39	2.206	2.206	(0.528)	20852	20.0000	22.82(a)
14	Allyl Chloride	41	2.209	2.209	(0.528)	40111	2.00000	2.22(a)
15	Iodomethane	142	2.033	2.033	(0.486)	9663	4.00000	6.95
16	Acrylonitrile	53	2.543	2.543	(0.608)	11577	4.00000	4.20
17	Methylene Chloride	84	2.307	2.307	(0.552)	15136	2.00000	2.11(M)
18	Methyl tert-butyl ether	73	2.543	2.543	(0.608)	42266	2.00000	2.07
19	Carbon Disulfide	76	2.075	2.075	(0.496)	70178	4.00000	4.13
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	13433	2.00000	2.02
21	Vinyl Acetate	43	3.008	3.008	(0.719)	72401	4.00000	3.68
22	1,1-Dichloroethane	63	2.929	2.929	(0.701)	26795	2.00000	2.14

23 Chloroprene	53	1.775	1.775 (0.424)	5152	2.00000	2.05(aM)
24 2-Butanone	43	3.671	3.671 (0.878)	8139	4.00000	3.71(MH)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	3.866	3.866	(0.925)	11361	2.00000	1.92(aM)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	17055	2.00000	2.01
	27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.845)	11950	2.00000	1.87
	28 Chloroform	83	3.915	3.915	(0.936)	22778	2.00000	2.07
	29 Bromochloromethane	128	3.803	3.803	(0.909)	7505	2.00000	2.06
$	30 Dibromofluoromethane	113	4.110	4.110	(0.983)	12062	2.00000	1.42
	31 1,1,1-Trichloroethane	97	4.088	4.088	(0.978)	16785	2.00000	1.90
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	14157	2.00000	1.94(H)
	33 1,2-Dichloroethane	62	4.571	4.571	(0.921)	16915	2.00000	1.92
	34 Carbon Tetrachloride	117	4.267	4.267	(0.860)	14921	2.00000	1.94(H)
$	35 1,2-Dichloroethane-d4	65	4.485	4.485	(1.073)	13488	2.00000	1.16
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	923485	50.0000	
	37 Benzene	78	4.522	4.522	(0.911)	43496	2.00000	1.91
	38 Trichloroethene	130	5.212	5.212	(1.050)	12729	2.00000	1.94(a)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	15520	2.00000	1.83(a)
	40 Methyl Methacrylate	41	5.624	5.624	(1.345)	10263	2.00000	1.88(a)
	41 2-Chloroethylvinyl ether	63	6.067	6.067	(1.222)	9072	4.00000	4.18(aM)
	42 1,2-Dichloropropane	63	5.448	5.448	(1.097)	12216	2.00000	1.90(aM)
	43 2-Nitropropane	43	5.981	5.981	(1.430)	4651	2.00000	2.13(a)
	44 Dibromomethane	93	5.553	5.553	(1.119)	8617	2.00000	1.96(a)
	45 4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	26871	4.00000	4.25(a)
	46 cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	17563	2.00000	1.81(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	881014	50.0000	
$	48 Toluene-d8	98	6.389	6.389	(0.833)	43332	2.00000	2.08(a)
	49 Ethyl Methacrylate	69	6.794	6.794	(1.368)	16413	2.00000	1.93(aH)
	50 Toluene	91	6.453	6.453	(0.842)	45696	2.00000	1.86(a)
	51 trans-1,3-Dichloropropene	75	6.693	6.693	(1.348)	15088	2.00000	1.85(a)
	52 2-Hexanone	43	7.101	7.101	(0.926)	17279	4.00000	4.07(aM)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	9586	2.00000	1.95(a)
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	19127	2.00000	1.91(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	13173	2.00000	1.86(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	8822	2.00000	1.72(aM)
	57 1,2-Dibromoethane	107	7.266	7.266	(0.948)	11663	2.00000	1.95(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	10090	2.00000	1.88(aMH)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	32047	2.00000	1.89(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	12365	2.00000	1.89(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	14909	2.00000	1.78(a)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	38266	4.00000	3.58(a)
	63 o-Xylene	106	8.241	8.241	(1.075)	19853	2.00000	1.88(a)
	64 Styrene	104	8.271	8.271	(1.079)	30274	2.00000	1.72(a)
	66 Bromoform	173	8.413	8.413	(1.097)	8610	2.00000	1.80(a)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	45338	2.00000	1.73(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	16903	2.00000	2.13(aM)
$	69 4-Bromofluorobenzene	95	8.695	8.695	(1.134)	21205	2.00000	2.70(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	485300	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	12105	2.00000	2.08(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.905	8.905	(1.161)	4155	2.00000	1.87(aH)
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	49153	2.00000	1.71(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	14603	2.00000	1.88(a)
	75 1,3,5-Trimethylbenzene	105	9.069	9.069	(0.939)	35325	2.00000	1.68(a)
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	34759	2.00000	1.89(a)
	77 4-Chlorotoluene	91	9.081	9.081	(0.940)	40941	2.00000	1.93(a)

78	tert-Butylbenzene	119	9.336	9.336 (0.966)	30447	2.00000	1.69(a)
79	1,2,4-Trimethylbenzene	105	9.381	9.381 (0.971)	36713	2.00000	1.69(a)

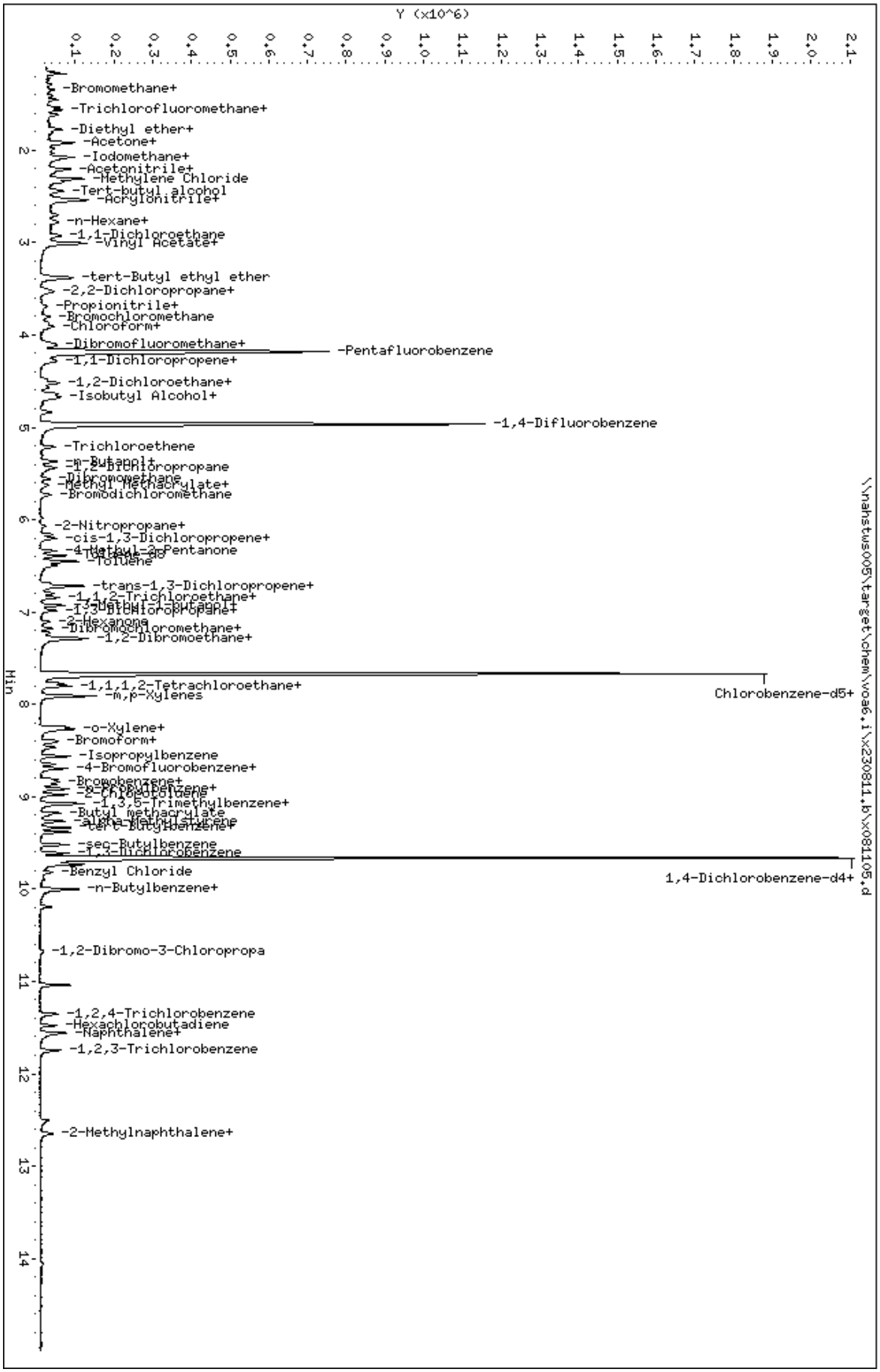
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	41789	2.00000	1.69(a)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	37168	2.00000	1.66(a)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	25707	2.00000	1.86(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	28704	2.00000	1.94(a)
86	Benzyl Chloride	91	9.819	9.819	(1.281)	20601	2.00000	1.63(aM)
87	n-Butylbenzene	91	10.003	10.003	(1.035)	30922	2.00000	3.38(a)
88	1,2-Dichlorobenzene	146	10.003	10.003	(1.035)	26477	2.00000	1.89(a)
89	1,2-Dibromo-3-Chloropropane	155	10.674	10.674	(1.105)	2798	2.00000	2.09(aM)
90	1,2,4-Trichlorobenzene	180	11.356	11.356	(1.175)	16853	2.00000	1.82(a)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	6937	2.00000	1.55(a)
92	Naphthalene	128	11.566	11.566	(1.197)	47126	2.00000	2.04(a)
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	16836	2.00000	1.87(a)
146	Methyl acetate	43	2.239	2.239	(0.536)	10629	2.00000	1.99(a)
138	Freon TF	101	1.917	1.917	(0.459)	10755	2.00000	3.02(a)
141	Cyclohexane	56	4.125	4.125	(0.987)	12705	2.00000	3.37(aH)
142	Tetrahydrofuran	42	3.878	3.878	(0.927)	4312	4.00000	3.73(a)
147	Methylcyclohexane	55	5.370	5.370	(1.082)	25754	2.00000	1.85(aM)
135	1,4-Dioxane	88	5.617	5.617	(1.343)	3316	40.0000	44.04(M)
132	n-Butanol	56	5.310	5.310	(1.270)	5108	40.0000	98.29(aM)
131	Methyl Acrylate	55	3.735	3.735	(0.893)	11619	2.00000	1.98(aM)
133	Ethyl Acrylate	55	5.370	5.370	(1.284)	26539	2.00000	1.89(M)
136	n-Hexane	57	2.779	2.779	(0.665)	12200	2.00000	1.49(a)
139	Diethyl ether	59	1.763	1.763	(0.422)	10605	2.00000	2.02(a)
148	Tert-butyl alcohol	59	2.438	2.438	(0.583)	45475	40.0000	51.55
149	Isopropyl alcohol	45	2.104	2.104	(0.503)	25882	40.0000	50.16
156	Diisopropyl ether	45	3.008	3.008	(0.719)	41580	2.00000	1.94(Ta)
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	45337	2.00000	2.01(a)
167	Ethanol	45	1.711	1.711	(0.409)	4283	40.0000	37.41(M)
172	tert-Butyl formate	59	4.639	4.639	(1.109)	32972	4.00000	5.57
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	35234	40.0000	42.32
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	51664	2.00000	2.08(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	37841	2.00000	1.97(a)
176	tert-Amyl alcohol	59	4.639	4.639	(1.109)	32972	40.0000	55.83
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	78208	40.0000	42.66
180	1-Methylnaphthalene	142	12.646	12.646	(1.309)	19848	2.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	12815	2.00000	2.10(a)
152	Amyl alcohol	42	6.989	6.989	(0.912)	1303	40.0000	17.86
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	22063	2.00000	2.15
159	Propylene oxide	43	1.808	1.808	(0.433)	3657	4.00000	3.82(a)
161	3-Methyl-1-butanol	55	6.940	6.940	(0.905)	6652	40.0000	43.66
162	Butyl acrylate	55	8.267	8.267	(1.078)	27159	2.00000	1.89(aM)
163	Butyl methacrylate	41	9.174	9.174	(0.950)	18823	2.00000	1.91(a)
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	58027	2.00000	2.19(aM)
182	Epichlorohydrin	57	6.112	6.112	(1.231)	5186	8.00000	9.18(M)
M 94	1,2-Dichloroethylene (total)	96				25383	4.00000	3.89(a)
M 95	Xylenes (total)	106				58119	6.00000	5.46(a)
130	Ethyl Acetate	43	3.686	3.686	(0.882)	13837	2.00000	2.03(aM)
134	Cyclohexanone	55	8.646	8.646	(0.895)	14092	40.0000	45.59(a)
185	Isoprene	39	1.775	1.775	(0.424)	5624	2.00000	2.28(a)
188	Isopropyl acetate	43	4.695	4.695	(0.946)	35340	2.00000	1.89(aM)
189	n-Butyl acetate	43	7.225	7.225	(0.942)	19611	2.00000	1.94(aM)
150	Allyl alcohol	57	2.779	2.779	(0.665)	12200	40.0000	31.71

194 Acetaldehyde	44	1.216	1.216 (0.291)	7566	8.00000	4.57(aM)
195 Methyl Amyl Ketone	43	8.391	8.391 (1.094)	28251	2.00000	1.84(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	20404	2.00000	1.75(aM)
202 Isobutylene	41	1.246	1.246	(0.298)	1584	2.00000	2.03(aM)
205 2-Ethylhexyl Acrylate	55	11.559	11.559	(1.196)	18677	2.00000	1.88(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
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Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

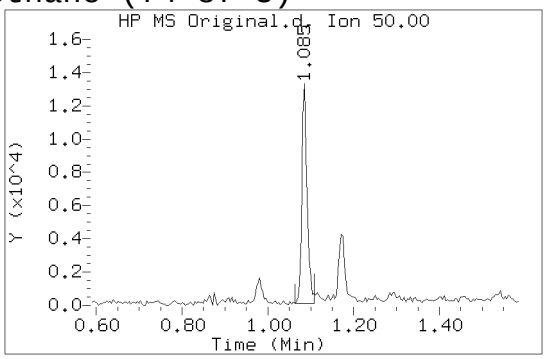
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InstruID : voa6.i
LabSampID : VSTD002

Chloromethane (74-87-3)

Reason Code:

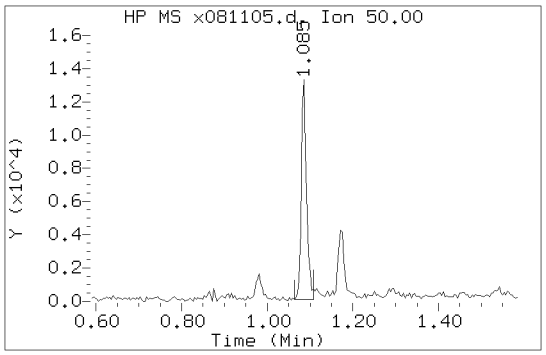
BEFORE

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12-Aug-2023
22:50



AFTER

MASS
50
AREA
11158
HEIGHT
13202
23-Aug-2023
11:11

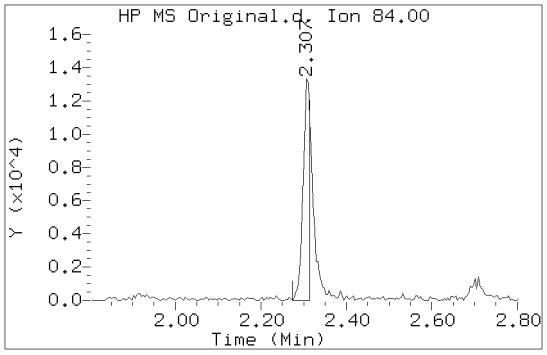


Methylene Chloride (75-09-2)

Reason Code:

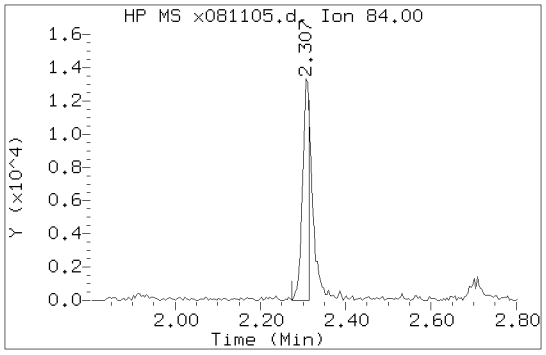
BEFORE

MASS
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AREA
12243
HEIGHT
8231
12-Aug-2023
22:50



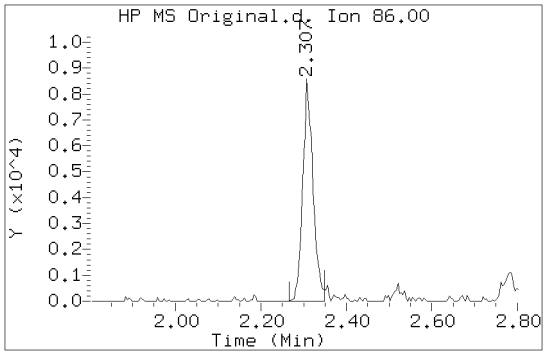
AFTER

MASS
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AREA
15136
HEIGHT
13341
23-Aug-2023
11:11



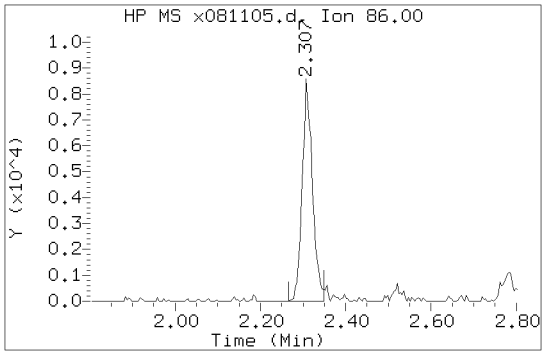
BEFORE

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AREA
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HEIGHT
13599
12-Aug-2023
22:50



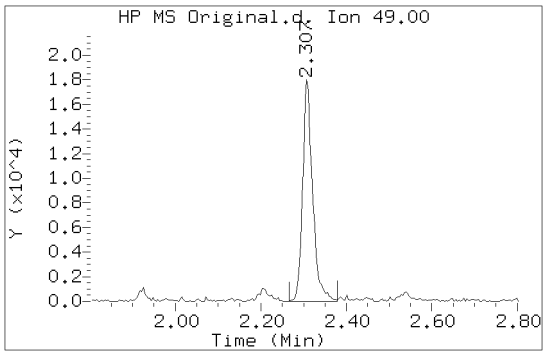
AFTER

MASS
86
AREA
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HEIGHT
8579
23-Aug-2023
11:11



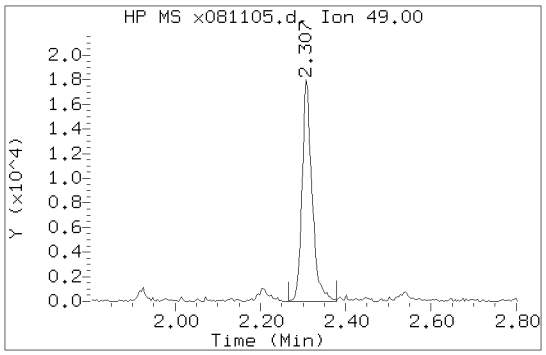
BEFORE

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AREA
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HEIGHT
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12-Aug-2023
22:50



AFTER

MASS
49
AREA
29880
HEIGHT
18008
23-Aug-2023
11:11

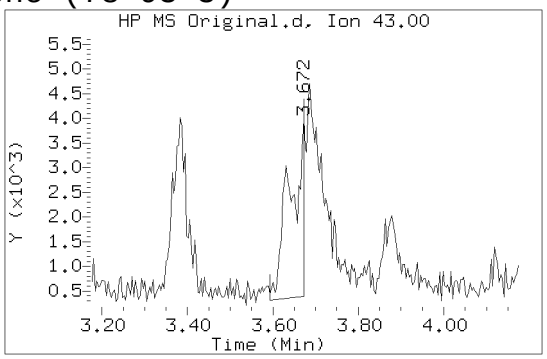


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LabSampID : VSTD002

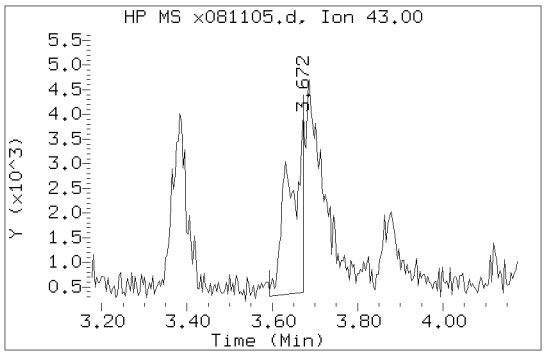
2-Butanone (78-93-3)

Reason Code:

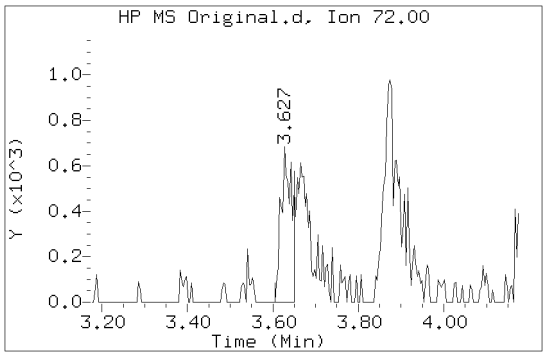
BEFORE
MASS
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AREA
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HEIGHT
47592
12-Aug-2023
22:50



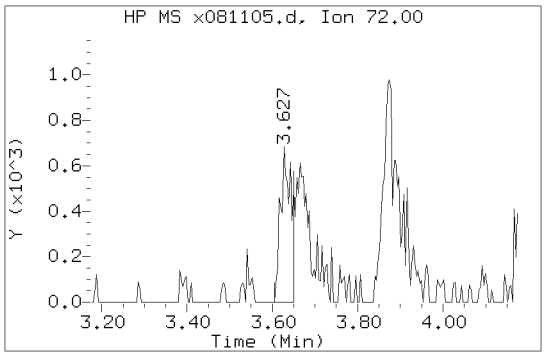
AFTER
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AREA
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HEIGHT
3612
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11:11



BEFORE
MASS
78
AREA
6866
HEIGHT
4857
12-Aug-2023
22:50



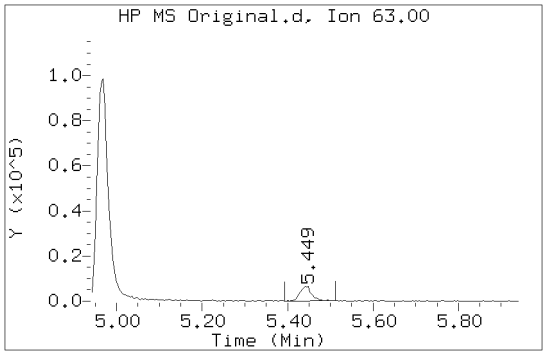
AFTER
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683
23-Aug-2023
11:11



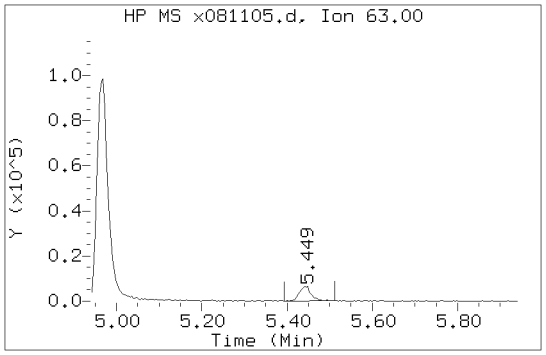
1,2-Dichloropropane (78-87-5)

Reason Code:

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22:50



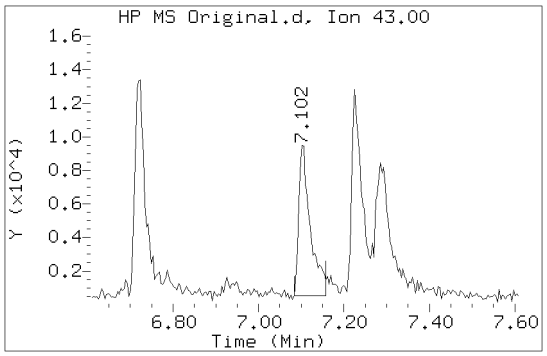
AFTER
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6332
23-Aug-2023
11:11



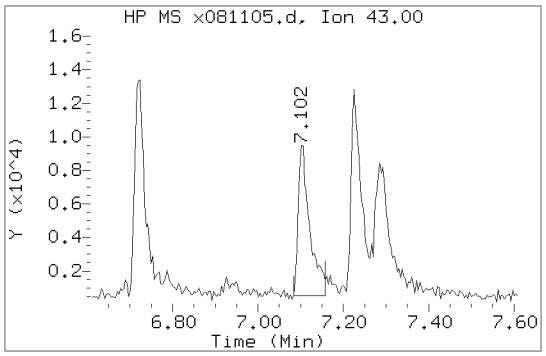
2-Hexanone (591-78-6)

Reason Code:

BEFORE
MASS
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AREA
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HEIGHT
15031
12-Aug-2023
22:50



AFTER
MASS
43
AREA
17279
HEIGHT
8977
23-Aug-2023
11:11

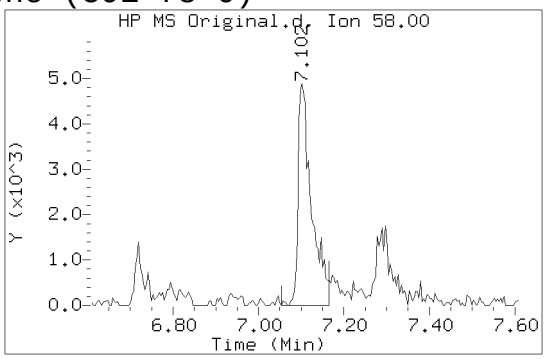


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
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InstruID : voa6.i
LabSampID : VSTD002

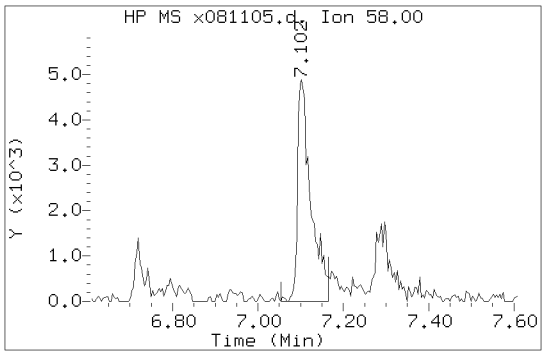
2-Hexanone (591-78-6)

Reason Code:

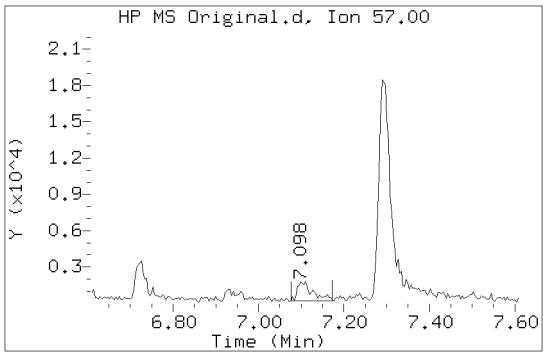
BEFORE
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HEIGHT
6041
12-Aug-2023
22:50



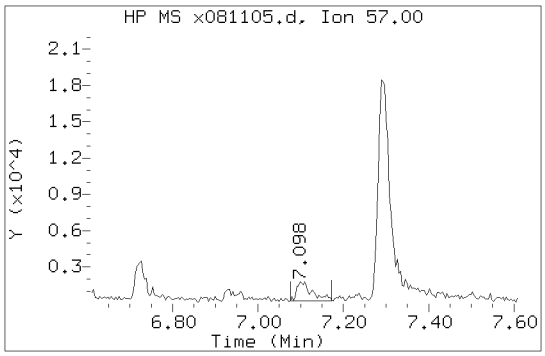
AFTER
MASS
58
AREA
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23-Aug-2023
11:11



BEFORE
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AREA
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HEIGHT
2191
12-Aug-2023
22:50



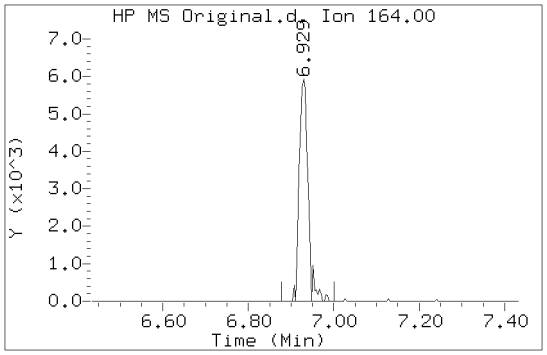
AFTER
MASS
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HEIGHT
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23-Aug-2023
11:11



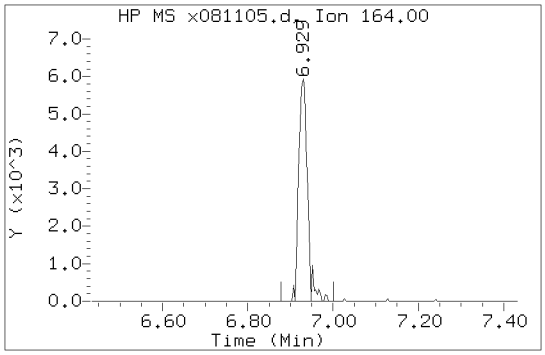
Tetrachloroethene (127-18-4)

Reason Code:

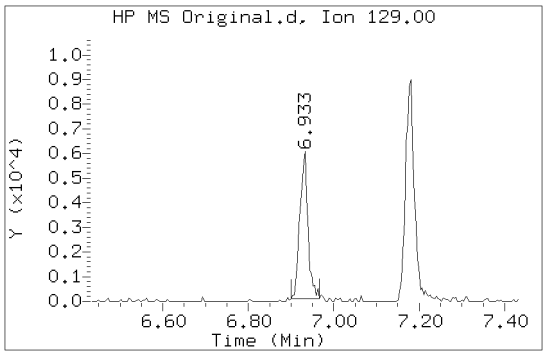
BEFORE
MASS
75
AREA
15088
HEIGHT
8125
12-Aug-2023
22:50



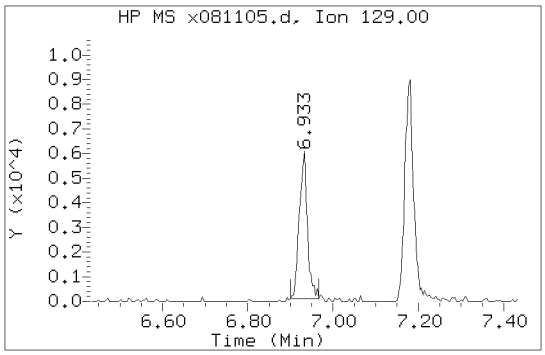
AFTER
MASS
164
AREA
8822
HEIGHT
5932
23-Aug-2023
11:11



BEFORE
MASS
77
AREA
5797
HEIGHT
3041
12-Aug-2023
22:50



AFTER
MASS
129
AREA
8163
HEIGHT
6005
23-Aug-2023
11:11



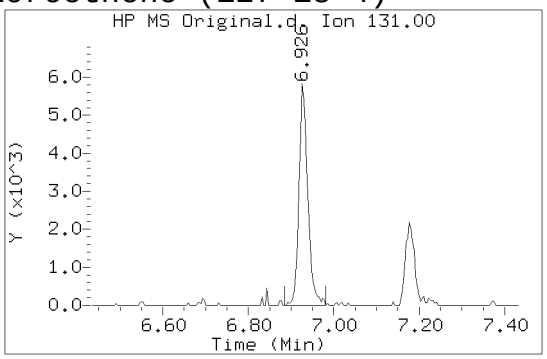
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

Tetrachloroethene (127-18-4)

Reason Code:

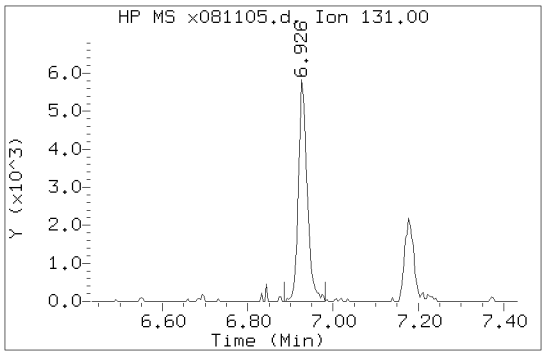
BEFORE

MASS
39
AREA
6117
HEIGHT
4449
12-Aug-2023
22:50



AFTER

MASS
131
AREA
8541
HEIGHT
5830
23-Aug-2023
11:11

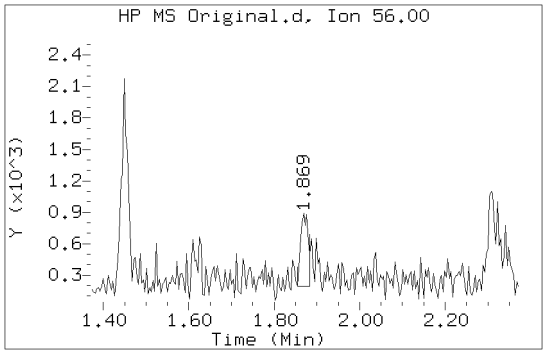


Acrolein (107-02-8)

Reason Code:

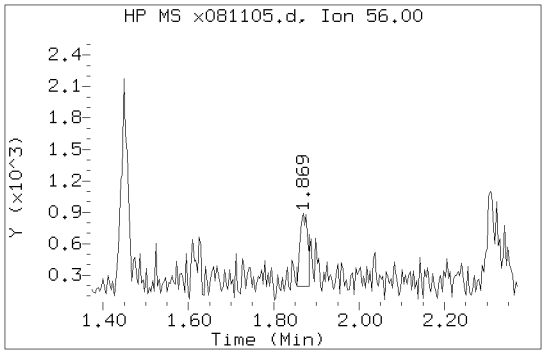
BEFORE

MASS
76
AREA
19127
HEIGHT
11607
12-Aug-2023
22:50



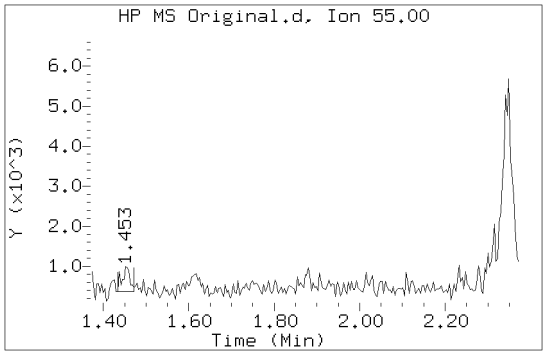
AFTER

MASS
56
AREA
887
HEIGHT
696
23-Aug-2023
11:11



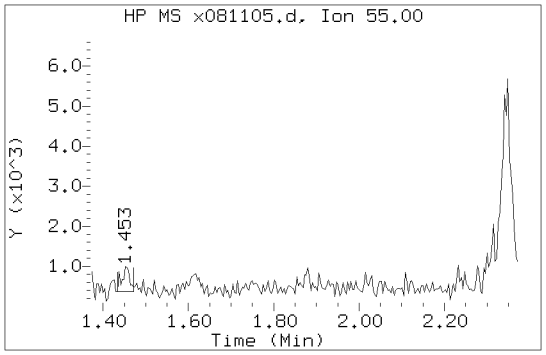
BEFORE

MASS
78
AREA
6539
HEIGHT
3990
12-Aug-2023
22:50



AFTER

MASS
55
AREA
792
HEIGHT
631
23-Aug-2023
11:11

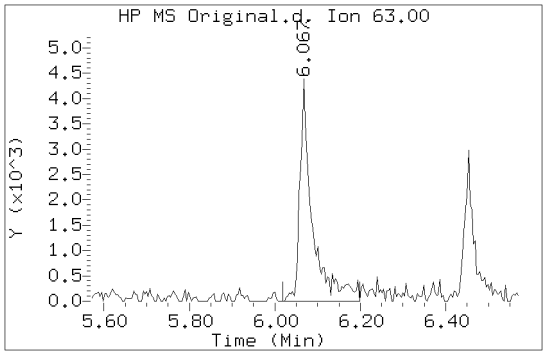


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

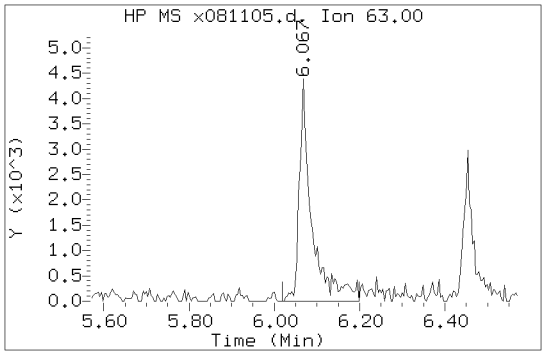
BEFORE

MASS
129
AREA
13173
HEIGHT
8997
12-Aug-2023
22:50



AFTER

MASS
63
AREA
9072
HEIGHT
4387
23-Aug-2023
11:11



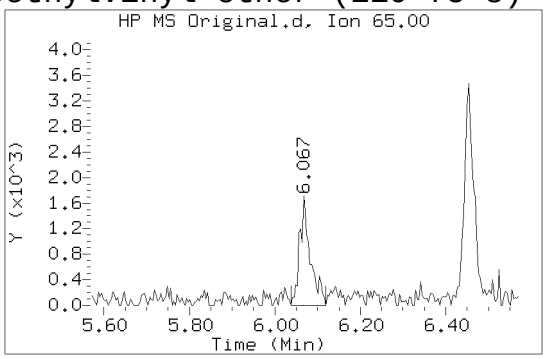
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

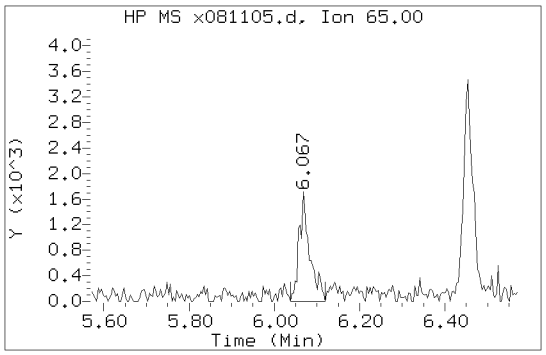
BEFORE

MASS
127
AREA
10054
HEIGHT
6939
12-Aug-2023
22:50



AFTER

MASS
65
AREA
3015
HEIGHT
1713
23-Aug-2023
11:11

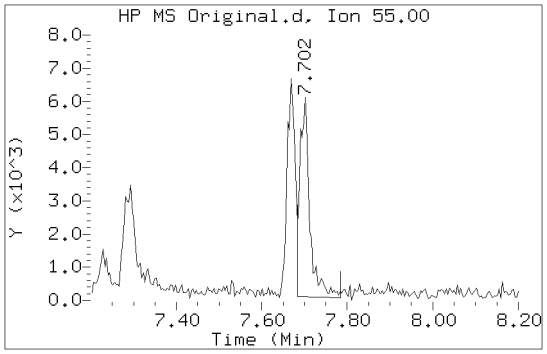


1-Chlorohexane (544-10-5)

Reason Code:

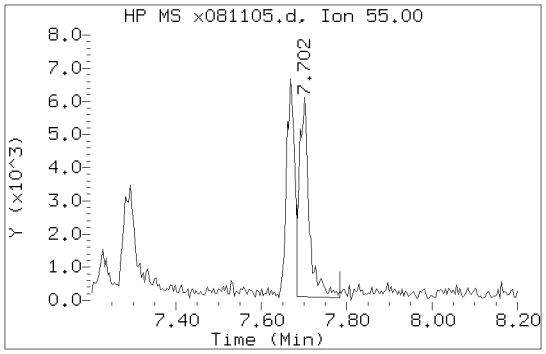
BEFORE

MASS
164
AREA
8822
HEIGHT
5932
12-Aug-2023
22:50



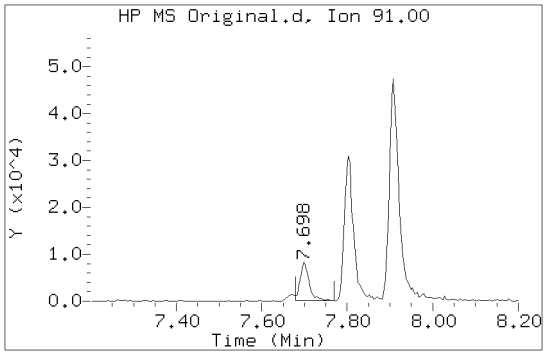
AFTER

MASS
55
AREA
10090
HEIGHT
6010
23-Aug-2023
11:11



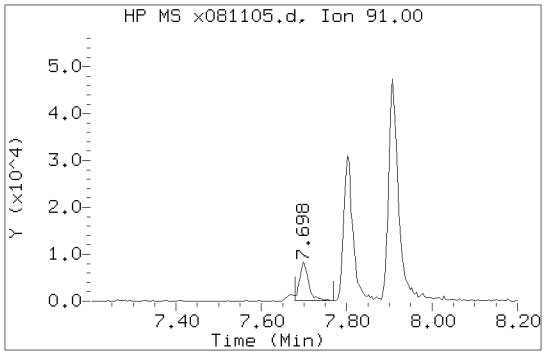
BEFORE

MASS
129
AREA
8163
HEIGHT
6005
12-Aug-2023
22:50



AFTER

MASS
91
AREA
12460
HEIGHT
8258
23-Aug-2023
11:11

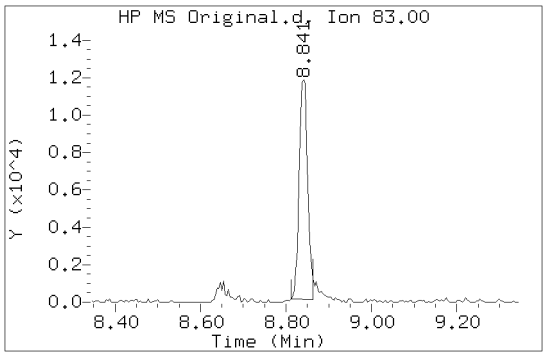


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

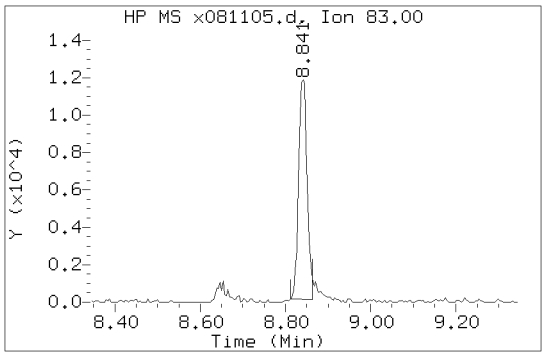
BEFORE

MASS
41
AREA
40111
HEIGHT
21479
12-Aug-2023
22:50



AFTER

MASS
83
AREA
16903
HEIGHT
11730
23-Aug-2023
11:11



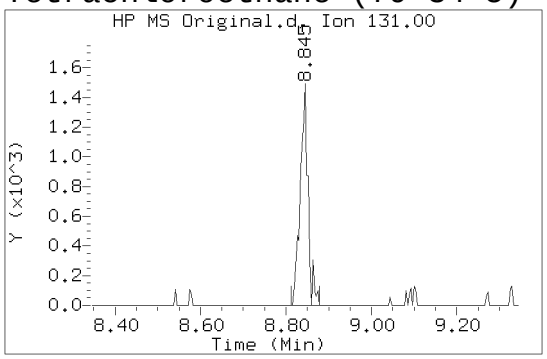
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

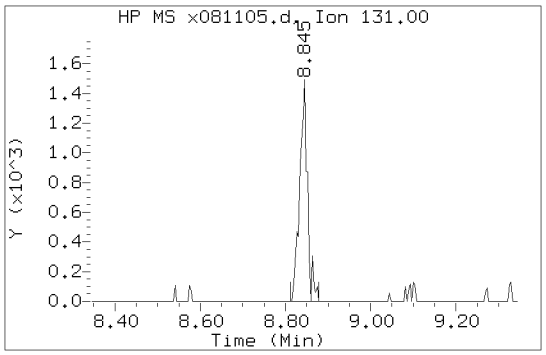
BEFORE

MASS
76
AREA
7130
HEIGHT
4327
12-Aug-2023
22:50



AFTER

MASS
131
AREA
1947
HEIGHT
1493
23-Aug-2023
11:11

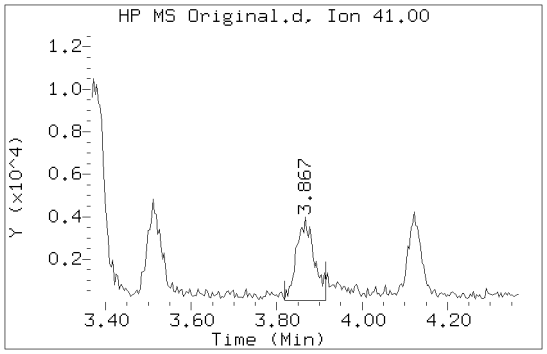


Methacrylonitrile (126-98-7)

Reason Code:

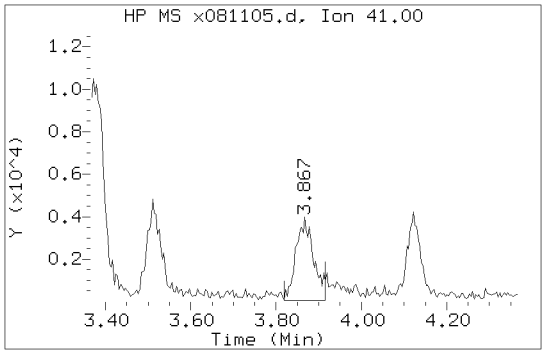
BEFORE

MASS
152
AREA
485300
HEIGHT
355847
12-Aug-2023
22:50



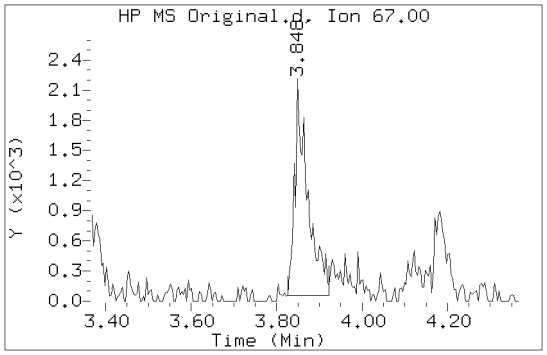
AFTER

MASS
41
AREA
11361
HEIGHT
3925
23-Aug-2023
11:11



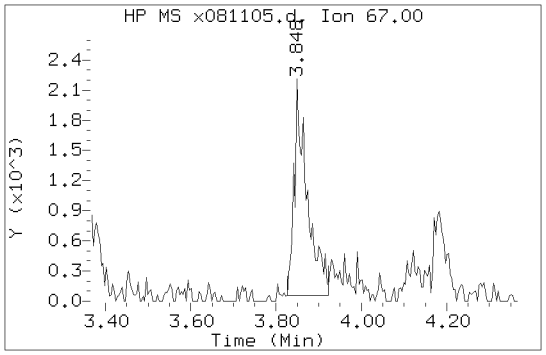
BEFORE

MASS
115
AREA
270794
HEIGHT
192256
12-Aug-2023
22:50



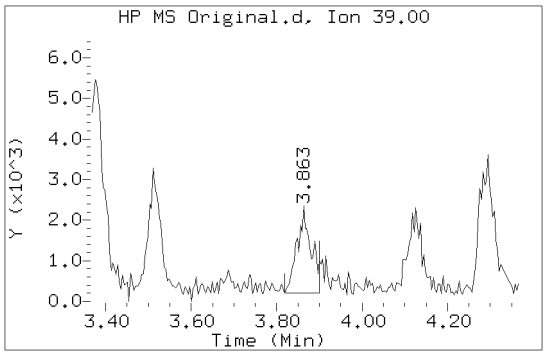
AFTER

MASS
67
AREA
4555
HEIGHT
2155
23-Aug-2023
11:11



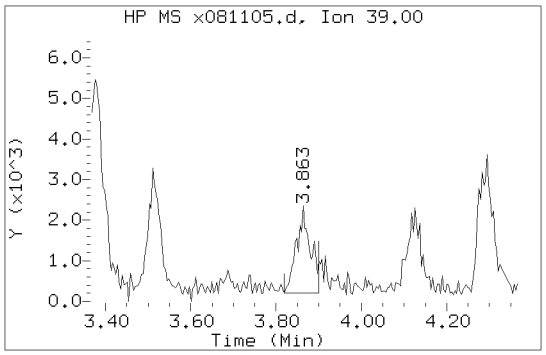
BEFORE

MASS
150
AREA
756792
HEIGHT
561071
12-Aug-2023
22:50



AFTER

MASS
39
AREA
5023
HEIGHT
2154
23-Aug-2023
11:11



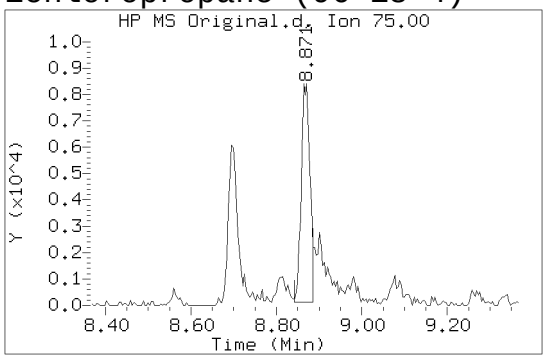
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

1,2,3-Trichloropropane (96-18-4)

Reason Code:

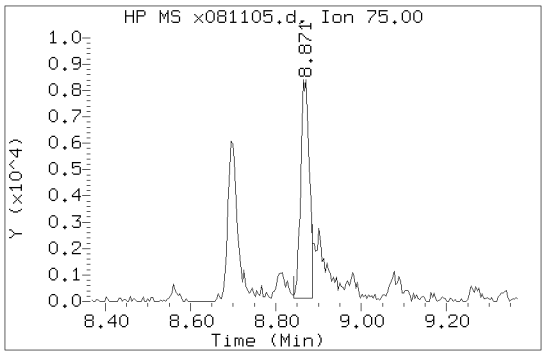
BEFORE

MASS
41
AREA
11361
HEIGHT
3925
12-Aug-2023
22:50



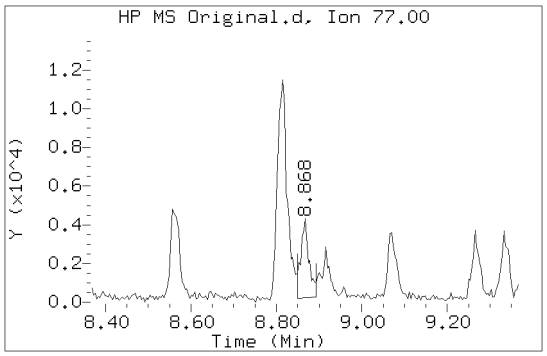
AFTER

MASS
75
AREA
12105
HEIGHT
8293
23-Aug-2023
11:11



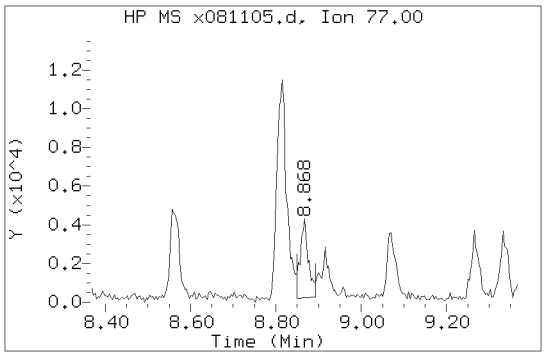
BEFORE

MASS
67
AREA
4555
HEIGHT
2155
12-Aug-2023
22:50



AFTER

MASS
77
AREA
5802
HEIGHT
4087
23-Aug-2023
11:11

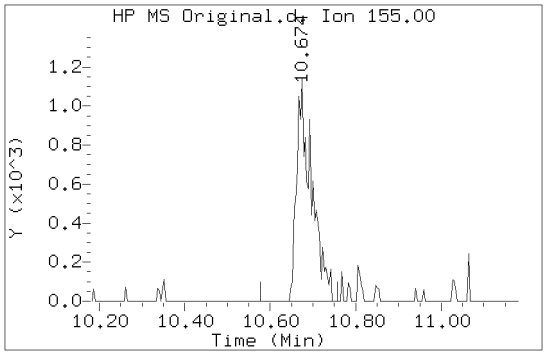


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

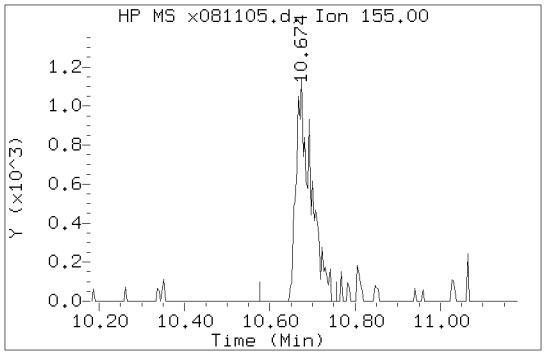
BEFORE

MASS
155
AREA
2798
HEIGHT
1139
12-Aug-2023
22:50



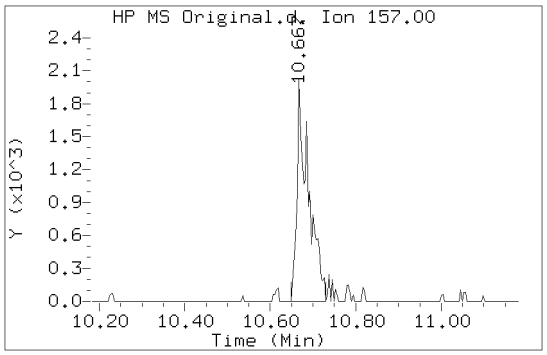
AFTER

MASS
155
AREA
2798
HEIGHT
1139
23-Aug-2023
11:11



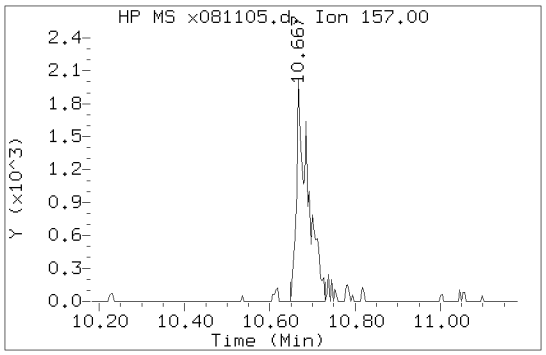
BEFORE

MASS
157
AREA
3784
HEIGHT
2019
12-Aug-2023
22:50



AFTER

MASS
157
AREA
3784
HEIGHT
2019
23-Aug-2023
11:11

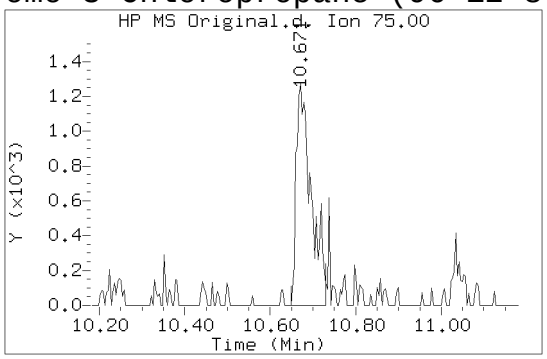


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

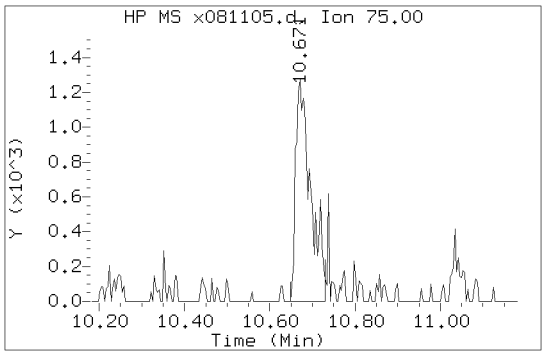
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

BEFORE
MASS
75
AREA
3145
HEIGHT
1273
12-Aug-2023
22:50



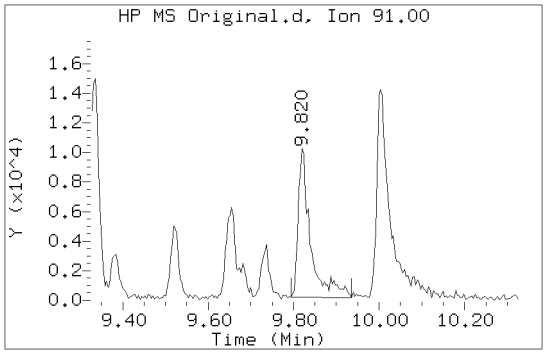
AFTER
MASS
75
AREA
3145
HEIGHT
1273
23-Aug-2023
11:11



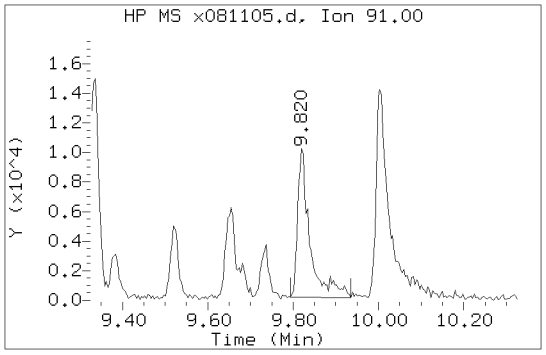
Benzyl Chloride (100-44-7)

Reason Code:

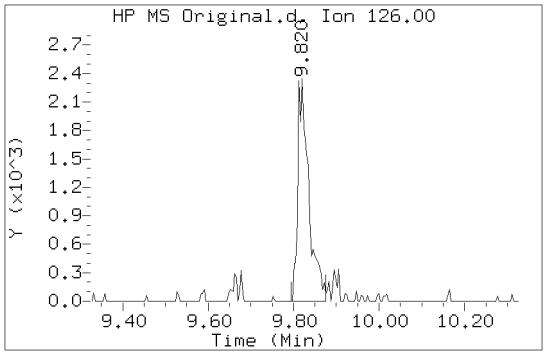
BEFORE
MASS
53
AREA
4155
HEIGHT
1625
12-Aug-2023
22:50



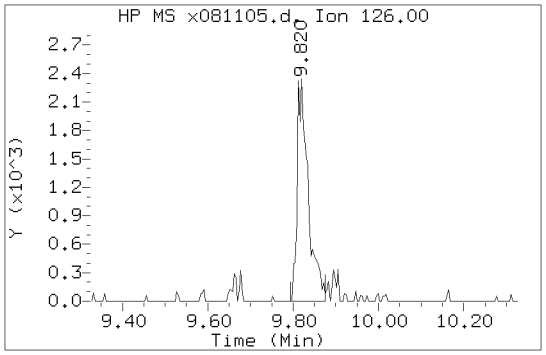
AFTER
MASS
91
AREA
20601
HEIGHT
10087
23-Aug-2023
11:11



BEFORE
MASS
75
AREA
17234
HEIGHT
8251
12-Aug-2023
22:50



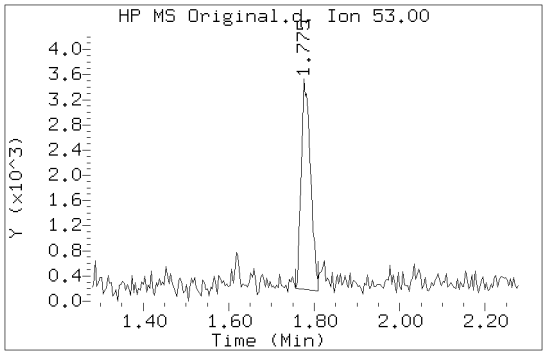
AFTER
MASS
126
AREA
4278
HEIGHT
2343
23-Aug-2023
11:11



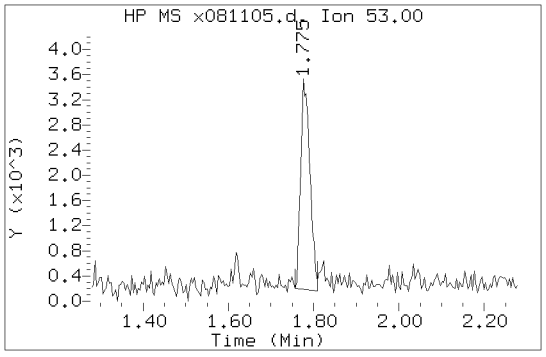
Chloroprene (126-99-8)

Reason Code:

BEFORE
MASS
43
AREA
13837
HEIGHT
4173
12-Aug-2023
22:50



AFTER
MASS
53
AREA
5152
HEIGHT
3336
23-Aug-2023
11:11



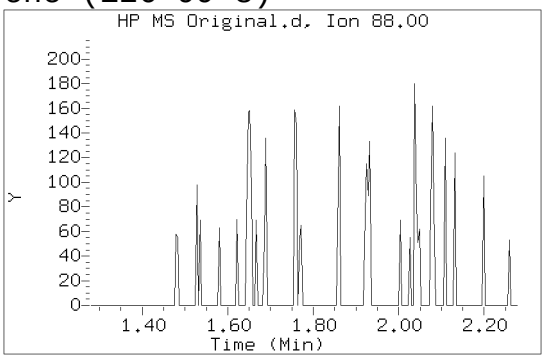
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

Chloroprene (126-99-8)

Reason Code:

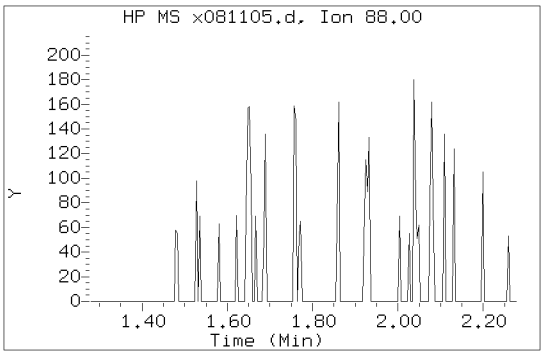
BEFORE

MASS
61
AREA
724
HEIGHT
430
12-Aug-2023
22:50



AFTER

MASS
88
AREA
0
HEIGHT
0
23-Aug-2023
11:11

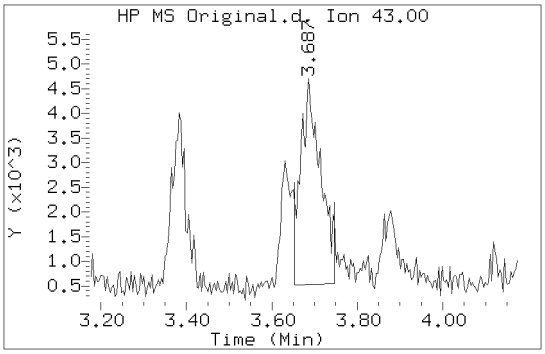


Ethyl Acetate (141-78-6)

Reason Code:

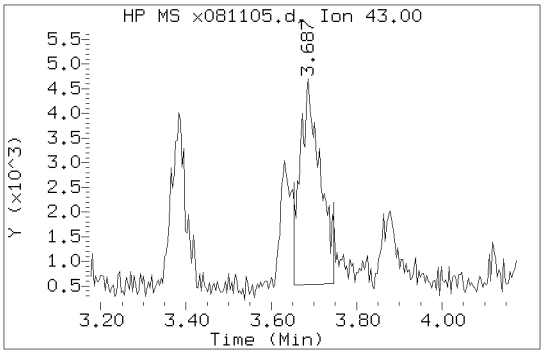
BEFORE

MASS
55
AREA
11619
HEIGHT
2443
12-Aug-2023
22:50



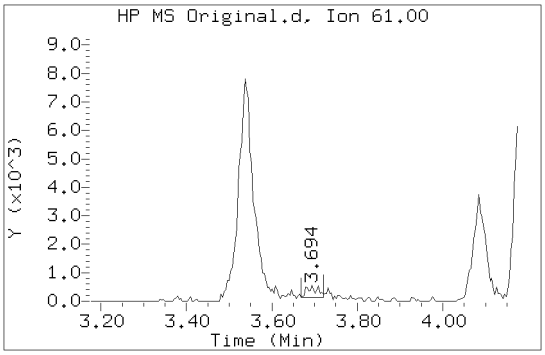
AFTER

MASS
43
AREA
13837
HEIGHT
4173
23-Aug-2023
11:11



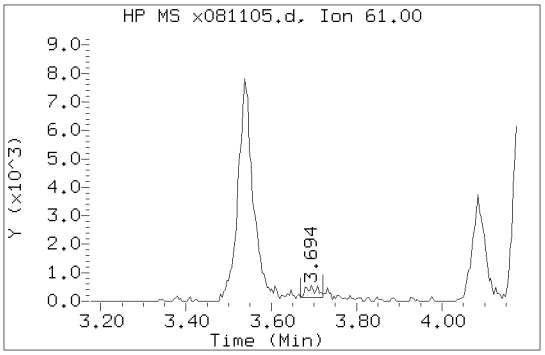
BEFORE

MASS
85
AREA
1393
HEIGHT
703
12-Aug-2023
22:50



AFTER

MASS
61
AREA
724
HEIGHT
430
23-Aug-2023
11:11

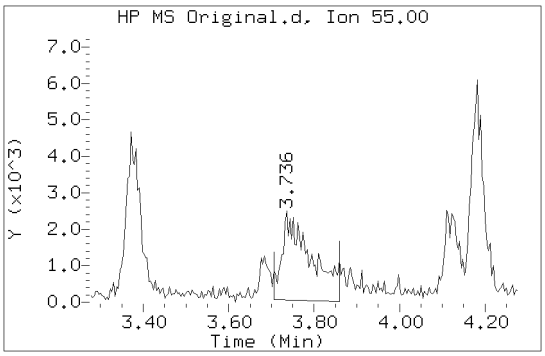


Methyl Acrylate (96-33-3)

Reason Code:

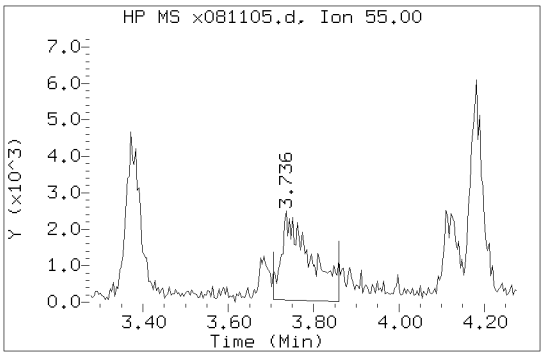
BEFORE

MASS
56
AREA
5108
HEIGHT
2438
12-Aug-2023
22:50



AFTER

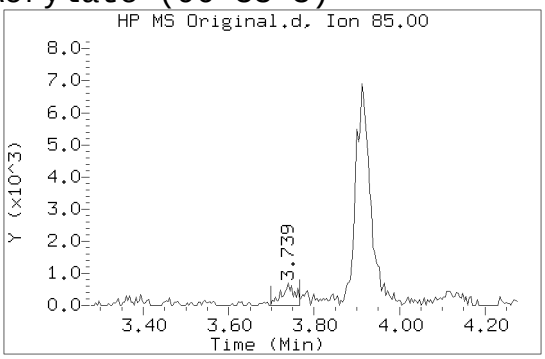
MASS
55
AREA
11619
HEIGHT
2443
23-Aug-2023
11:11



Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

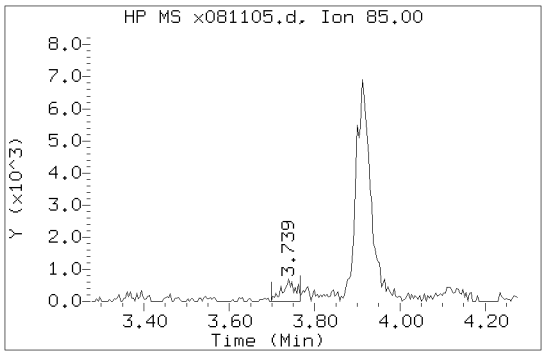
Methyl Acrylate (96-33-3)

BEFORE
MASS
41
AREA
9405
HEIGHT
4564
12-Aug-2023
22:50



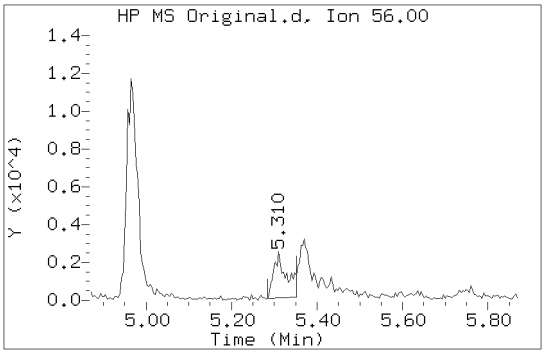
Reason Code:

AFTER
MASS
85
AREA
1393
HEIGHT
703
23-Aug-2023
11:11



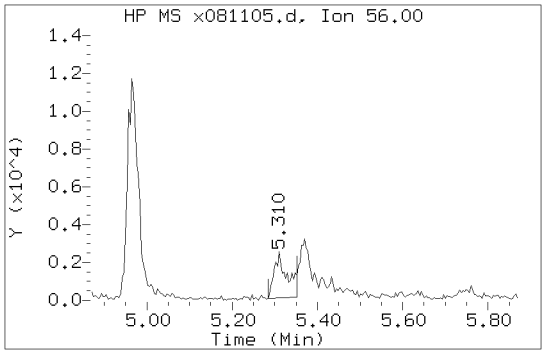
n-Butanol (71-36-3)

BEFORE
MASS
55
AREA
26539
HEIGHT
7374
12-Aug-2023
22:50

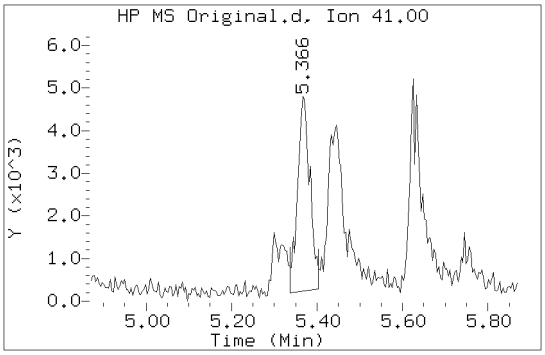


Reason Code:

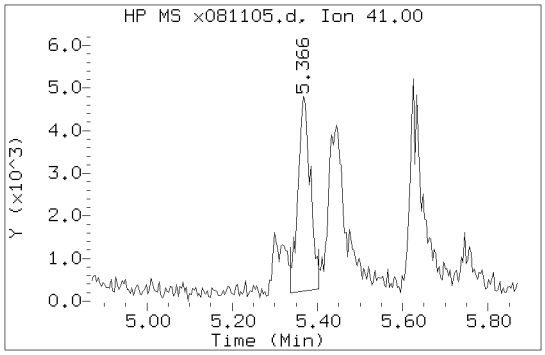
AFTER
MASS
56
AREA
5108
HEIGHT
2438
23-Aug-2023
11:11



BEFORE
MASS
99
AREA
657
HEIGHT
611
12-Aug-2023
22:50

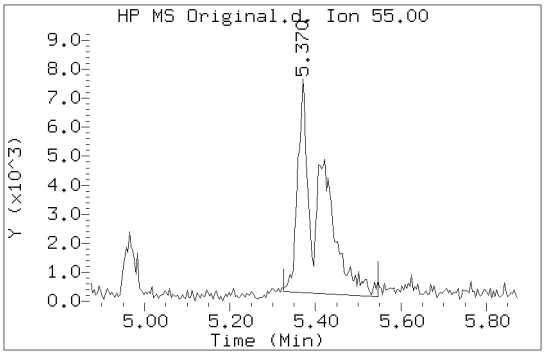


AFTER
MASS
41
AREA
9405
HEIGHT
4564
23-Aug-2023
11:11



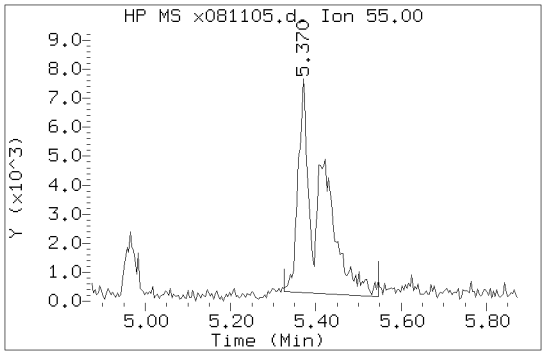
Ethyl Acrylate (140-88-5)

BEFORE
MASS
55
AREA
14092
HEIGHT
9296
12-Aug-2023
22:50



Reason Code:

AFTER
MASS
55
AREA
26539
HEIGHT
7374
23-Aug-2023
11:11

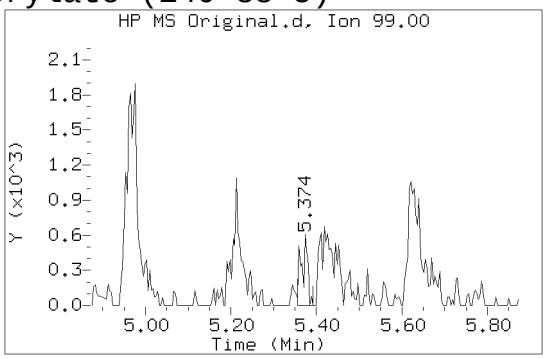


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Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

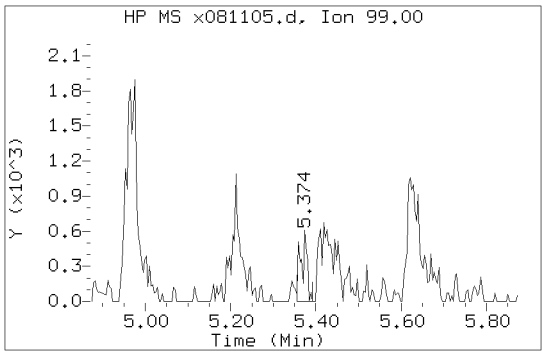
Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE
MASS
42
AREA
10856
HEIGHT
6272
12-Aug-2023
22:50



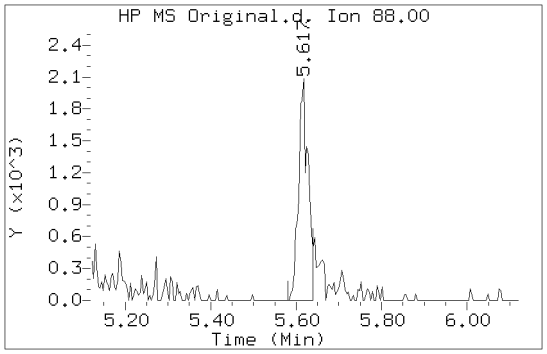
AFTER
MASS
99
AREA
657
HEIGHT
611
23-Aug-2023
11:11



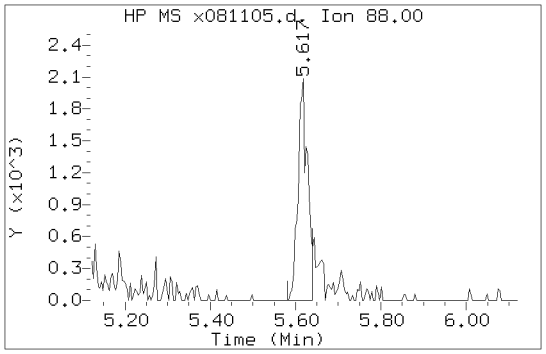
1,4-Dioxane ()

Reason Code:

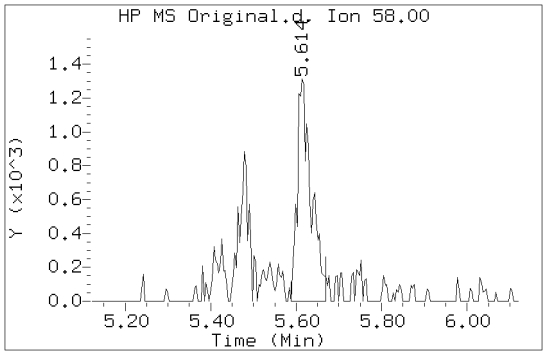
BEFORE
MASS
57
AREA
12200
HEIGHT
5884
12-Aug-2023
22:50



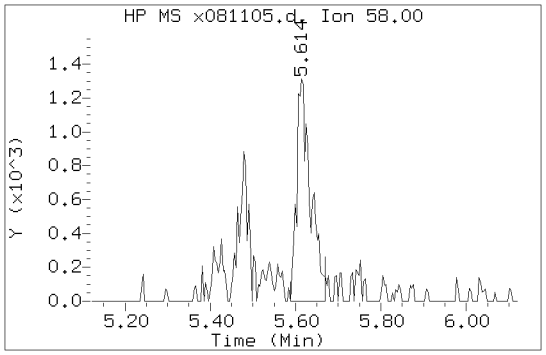
AFTER
MASS
88
AREA
3316
HEIGHT
2084
23-Aug-2023
11:11



BEFORE
MASS
41
AREA
8206
HEIGHT
4479
12-Aug-2023
22:50



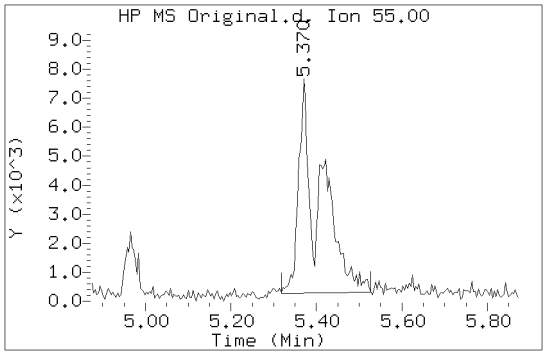
AFTER
MASS
58
AREA
3025
HEIGHT
1313
23-Aug-2023
11:11



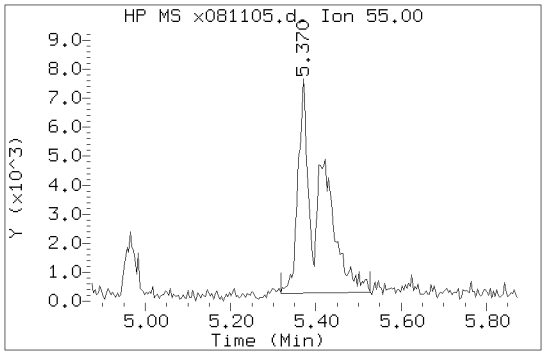
Methylcyclohexane (108-87-2)

Reason Code:

BEFORE
MASS
118
AREA
18299
HEIGHT
13043
12-Aug-2023
22:50



AFTER
MASS
55
AREA
25754
HEIGHT
7389
23-Aug-2023
11:11

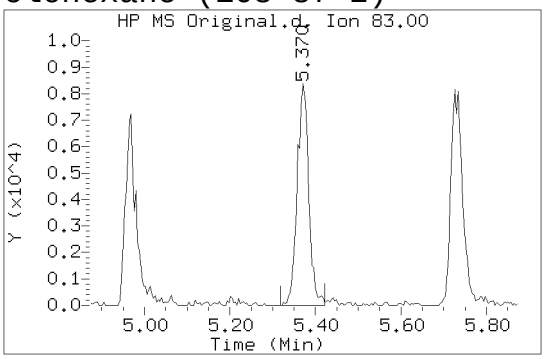


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

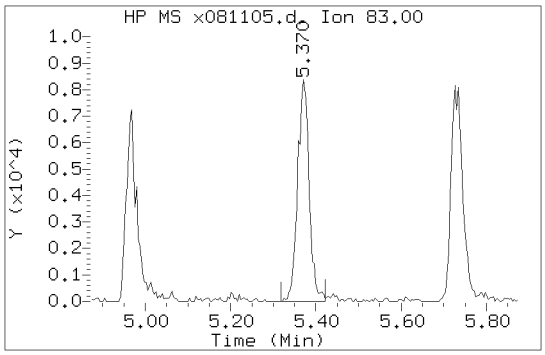
Methylcyclohexane (108-87-2)

Reason Code:

BEFORE
MASS
103
AREA
10176
HEIGHT
6202
12-Aug-2023
22:50



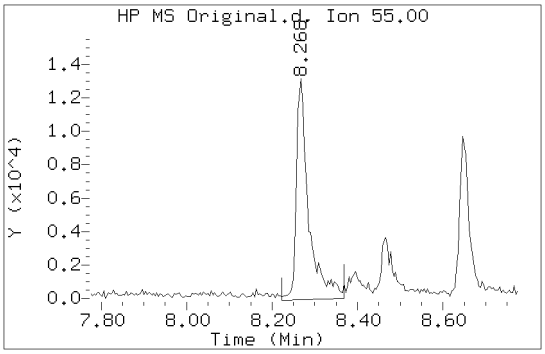
AFTER
MASS
83
AREA
16064
HEIGHT
8380
23-Aug-2023
11:11



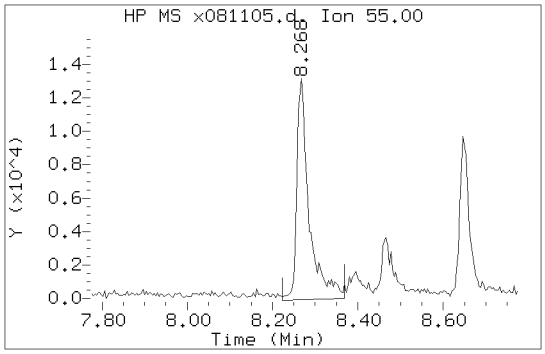
Butyl acrylate (141-32-2)

Reason Code:

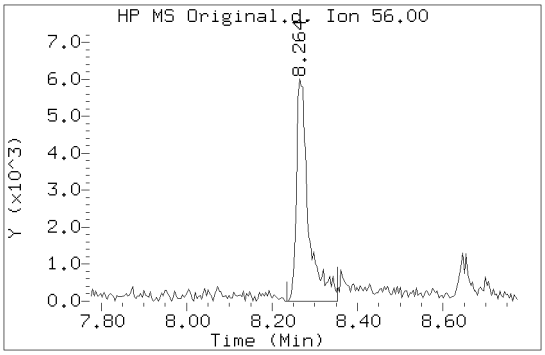
BEFORE
MASS
44
AREA
7566
HEIGHT
5442
12-Aug-2023
22:50



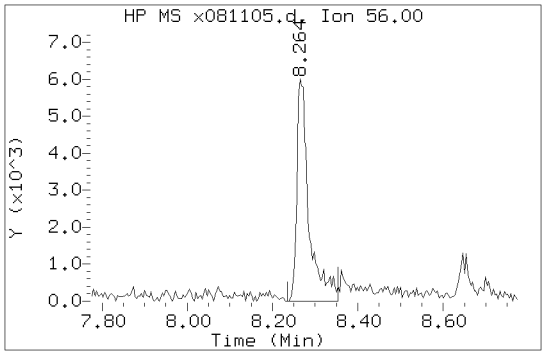
AFTER
MASS
55
AREA
27159
HEIGHT
13237
23-Aug-2023
11:11



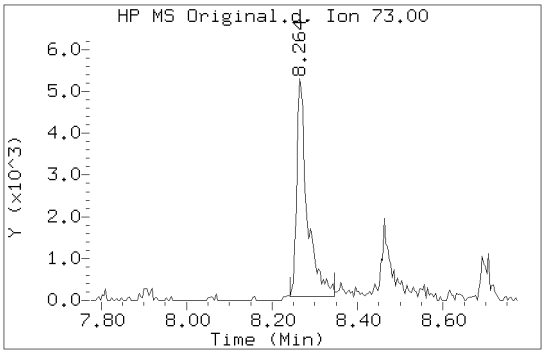
BEFORE
MASS
43
AREA
3136
HEIGHT
3062
12-Aug-2023
22:50



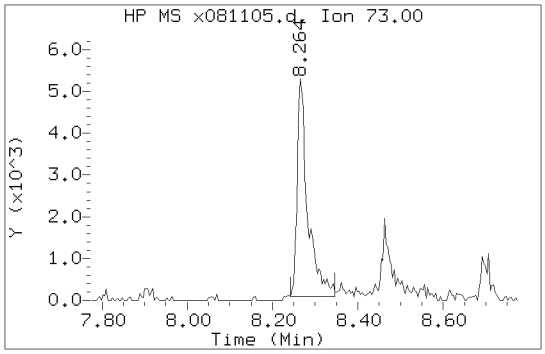
AFTER
MASS
56
AREA
12093
HEIGHT
6013
23-Aug-2023
11:11



BEFORE
MASS
42
AREA
1919
HEIGHT
1438
12-Aug-2023
22:50



AFTER
MASS
73
AREA
9106
HEIGHT
5215
23-Aug-2023
11:11

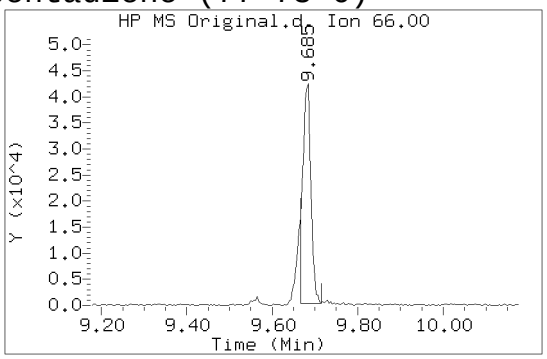


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Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

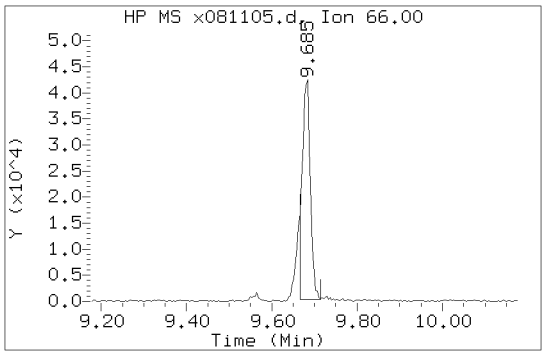
Dicyclopentadiene (77-73-6)

Reason Code:

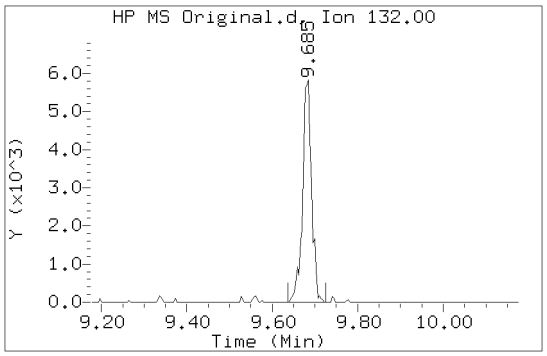
BEFORE
MASS
41
AREA
1584
HEIGHT
1603
12-Aug-2023
22:50



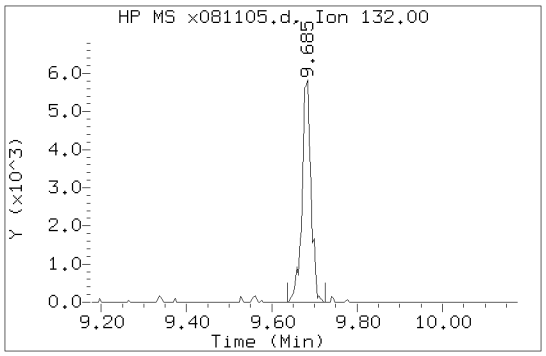
AFTER
MASS
66
AREA
58027
HEIGHT
42184
23-Aug-2023
11:11



BEFORE
MASS
56
AREA
0
HEIGHT
0
12-Aug-2023
22:50



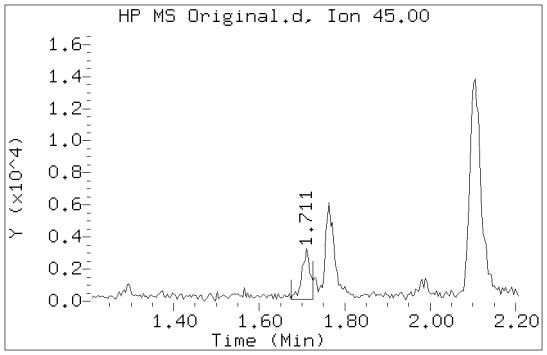
AFTER
MASS
132
AREA
8811
HEIGHT
5829
23-Aug-2023
11:11



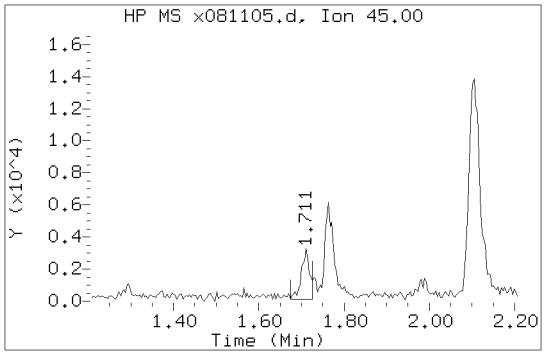
Ethanol (64-17-5)

Reason Code:

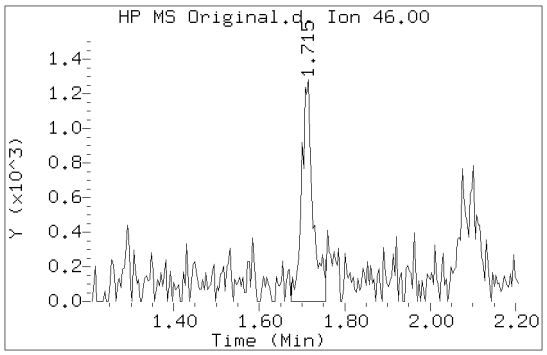
BEFORE
MASS
113
AREA
12062
HEIGHT
5711
12-Aug-2023
22:50



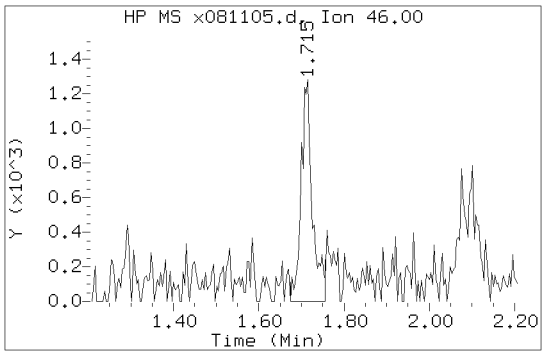
AFTER
MASS
45
AREA
4283
HEIGHT
3166
23-Aug-2023
11:11



BEFORE
MASS
111
AREA
12012
HEIGHT
5086
12-Aug-2023
22:50



AFTER
MASS
46
AREA
2377
HEIGHT
1281
23-Aug-2023
11:11

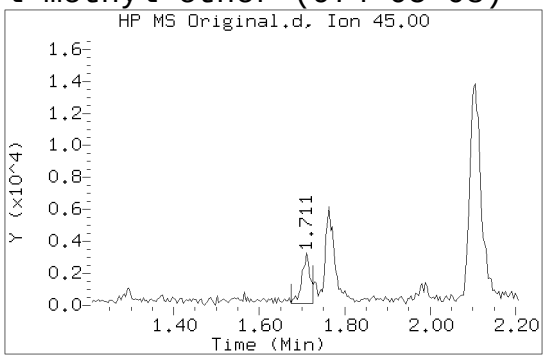


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Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

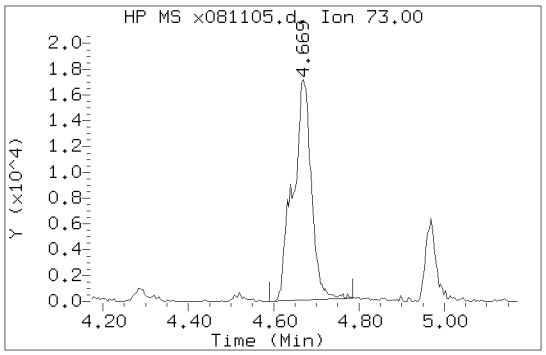
tert-Amyl methyl ether (974-05-08)

Reason Code:

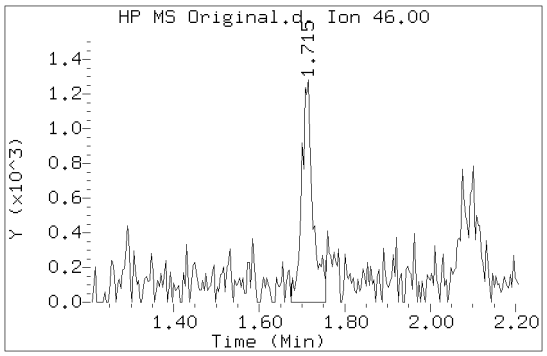
BEFORE
MASS
95
AREA
21205
HEIGHT
12854
12-Aug-2023
22:50



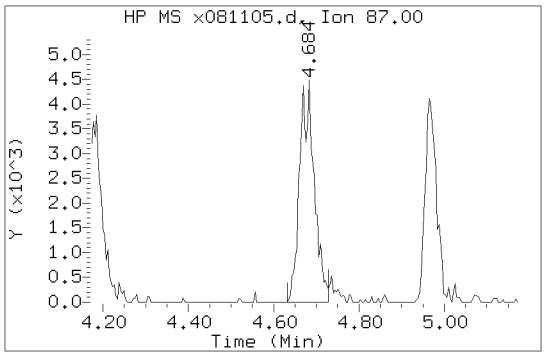
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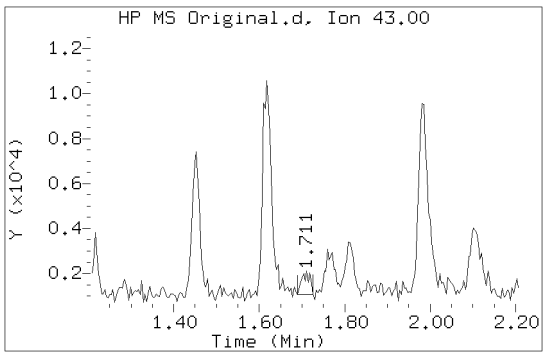
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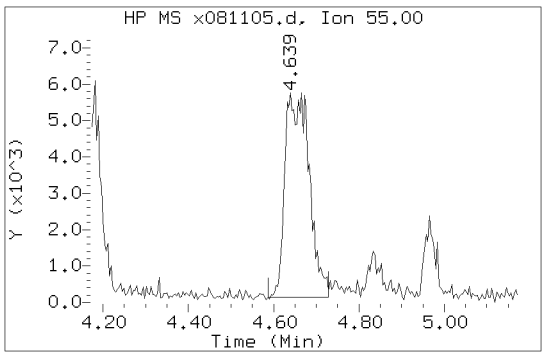
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081106.D Page 1
Report Date: 23-Aug-2023 11:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081106.D
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Inj Date : 11-AUG-2023 13:15
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment   :
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Cal Date : 11-AUG-2023 13:15 Cal File: X081106.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	594420	50.0000	
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	27672	5.00000	5.67
3 Chloromethane	50	1.085	1.085	(0.260)	27627	5.00000	4.77
4 Propionitrile	54	3.671	3.671	(0.878)	40524	50.0000	48.95(a)
5 Vinyl Chloride	62	1.149	1.149	(0.275)	35042	5.00000	4.91
6 Bromomethane	94	1.347	1.347	(0.322)	18184	5.00000	4.73(M)
7 Chloroethane	64	1.407	1.407	(0.337)	24167	5.00000	5.17(M)
8 Trichlorofluoromethane	101	1.568	1.568	(0.375)	51010	5.00000	5.02
9 Acrolein	56	1.872	1.872	(0.448)	2218	10.0000	8.95(aH)
10 Acetone	43	1.981	1.981	(0.474)	31794	10.0000	9.87
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	29363	5.00000	5.11
12 Isobutyl Alcohol	43	4.691	4.691	(1.122)	90165	100.000	96.76(a)
13 Acetonitrile	39	2.206	2.206	(0.528)	47382	50.0000	51.68(a)
14 Allyl Chloride	41	2.210	2.210	(0.528)	96037	5.00000	5.30(a)
15 Iodomethane	142	2.033	2.033	(0.486)	31977	10.0000	10.16(M)
16 Acrylonitrile	53	2.543	2.543	(0.608)	29949	10.0000	10.83
17 Methylene Chloride	84	2.311	2.311	(0.553)	42500	5.00000	5.90
18 Methyl tert-butyl ether	73	2.543	2.543	(0.608)	105371	5.00000	5.14
19 Carbon Disulfide	76	2.075	2.075	(0.496)	175609	10.0000	10.30
20 trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	34956	5.00000	5.24
21 Vinyl Acetate	43	3.008	3.008	(0.719)	191764	10.0000	9.71

22 1,1-Dichloroethane	63	2.926	2.926 (0.700)	63406	5.00000	5.04
23 Chloroprene	53	1.778	1.778 (0.425)	12759	5.00000	5.07(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	3.608	3.608	(0.863)	21612	10.0000	9.82(MH)
	25 Methacrylonitrile	41	3.859	3.859	(0.923)	30293	5.00000	5.10(a)
	26 2,2-Dichloropropane	77	3.514	3.514	(0.840)	43583	5.00000	5.15
	27 cis-1,2-Dichloroethene	96	3.537	3.537	(0.846)	32964	5.00000	5.14
	28 Chloroform	83	3.908	3.908	(0.935)	57451	5.00000	5.21
	29 Bromochloromethane	128	3.803	3.803	(0.909)	18252	5.00000	5.01
$	30 Dibromofluoromethane	113	4.106	4.106	(0.982)	29825	5.00000	4.72
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	45624	5.00000	5.16
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	34061	5.00000	4.62(H)
	33 1,2-Dichloroethane	62	4.560	4.560	(0.918)	45033	5.00000	5.06
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	40297	5.00000	5.18(H)
$	35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.071)	36656	5.00000	5.05
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	935678	50.0000	
	37 Benzene	78	4.519	4.519	(0.910)	116227	5.00000	5.04
	38 Trichloroethene	130	5.208	5.208	(1.049)	33156	5.00000	5.00
	39 Bromodichloromethane	83	5.729	5.729	(1.154)	42720	5.00000	4.97(a)
	40 Methyl Methacrylate	41	5.621	5.621	(1.344)	27027	5.00000	4.94(a)
	41 2-Chloroethylvinyl ether	63	6.059	6.059	(1.220)	20647	10.0000	9.40(aM)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	31931	5.00000	4.91(a)
	43 2-Nitropropane	43	5.977	5.977	(1.429)	10964	5.00000	5.02
	44 Dibromomethane	93	5.557	5.557	(1.119)	22599	5.00000	5.08
	45 4-Methyl-2-Pentanone	43	6.333	6.333	(0.826)	61249	10.0000	9.61
	46 cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	45506	5.00000	4.63(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	887704	50.0000	
$	48 Toluene-d8	98	6.389	6.389	(0.833)	111261	5.00000	5.32
	49 Ethyl Methacrylate	69	6.790	6.790	(1.368)	39966	5.00000	4.66(aH)
	50 Toluene	91	6.449	6.449	(0.841)	123023	5.00000	4.97(a)
	51 trans-1,3-Dichloropropene	75	6.689	6.689	(1.347)	37517	5.00000	4.55(a)
	52 2-Hexanone	43	7.094	7.094	(0.925)	42251	10.0000	9.88
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	25267	5.00000	5.12
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	50474	5.00000	5.00
	55 Dibromochloromethane	129	7.176	7.176	(0.936)	33839	5.00000	4.75(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	25538	5.00000	4.96(a)
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	30653	5.00000	5.08
	58 1-Chlorohexane	55	7.698	7.698	(1.550)	25603	5.00000	4.72(aH)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	84566	5.00000	4.96(a)
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	32012	5.00000	4.86(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	42883	5.00000	5.09
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	106798	10.0000	9.91(a)
	63 o-Xylene	106	8.241	8.241	(1.075)	50948	5.00000	4.80(a)
	64 Styrene	104	8.264	8.264	(1.078)	87288	5.00000	4.94(a)
	66 Bromoform	173	8.414	8.414	(1.097)	21130	5.00000	4.40(a)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	126049	5.00000	4.78(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	39255	5.00000	4.84(a)
$	69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	49251	5.00000	5.86
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	498083	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	29259	5.00000	4.90(a)
	72 trans-1,4-Dichloro-2-butene	53	8.893	8.893	(1.160)	10412	5.00000	4.65(aH)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	141584	5.00000	4.80(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	40340	5.00000	5.06
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	102042	5.00000	4.73(a)
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	94293	5.00000	5.00

77	4-Chlorotoluene	91	9.073	9.073 (0.939)	105626	5.00000	4.86(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	90504	5.00000	4.90(a)

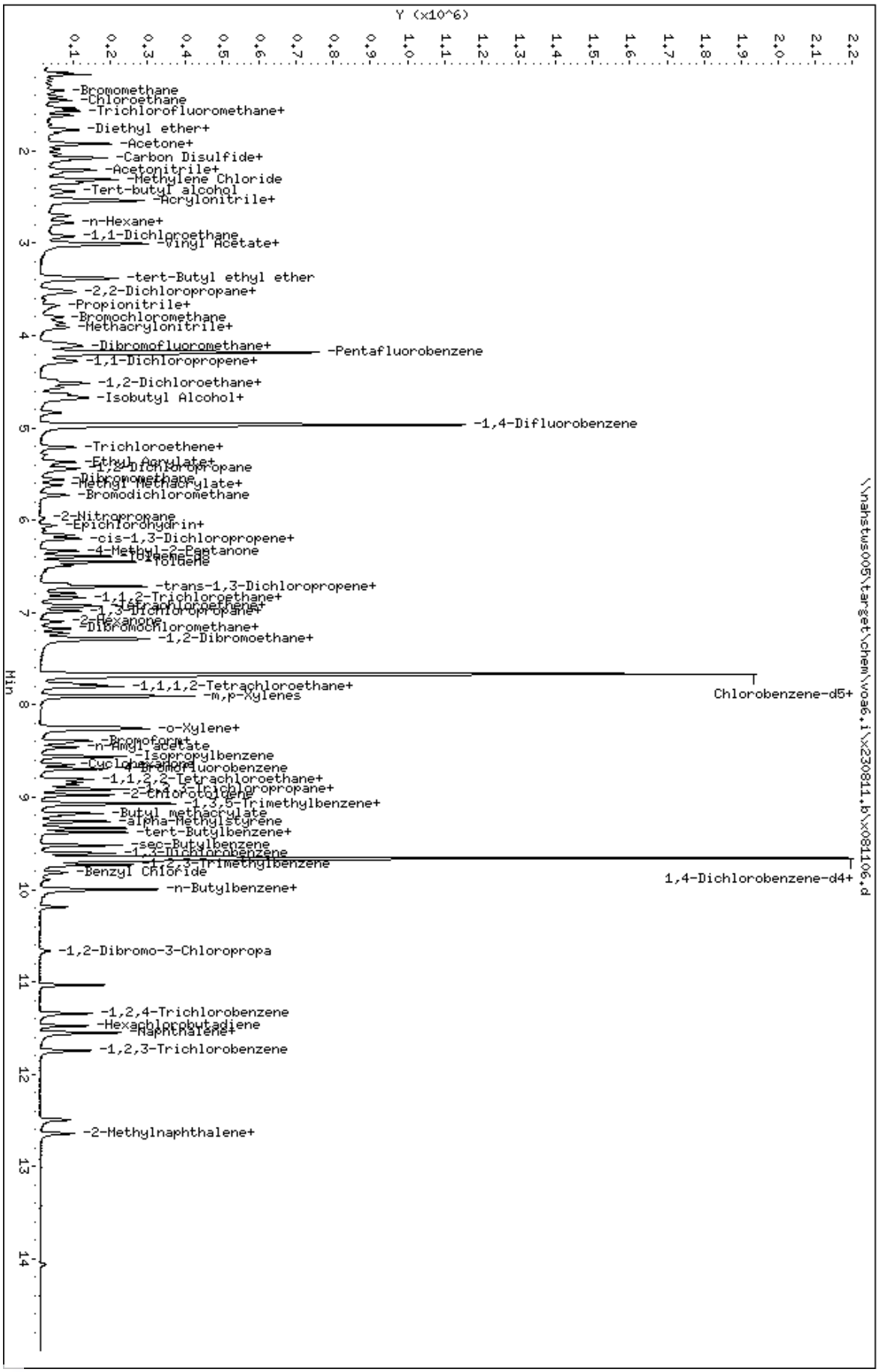
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	106167	5.00000	4.78(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	122941	5.00000	4.86(a)
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	107020	5.00000	4.68(a)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	69705	5.00000	4.91(a)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	77053	5.00000	5.07
86	Benzyl Chloride	91	9.812	9.812	(1.280)	49451	5.00000	3.89(a)
87	n-Butylbenzene	91	9.999	9.999	(1.035)	92255	5.00000	5.99
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	70556	5.00000	4.92(a)
89	1,2-Dibromo-3-Chloropropane	155	10.663	10.663	(1.104)	6669	5.00000	4.86(a)
90	1,2,4-Trichlorobenzene	180	11.341	11.341	(1.174)	44585	5.00000	4.70(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	18865	5.00000	5.42
92	Naphthalene	128	11.551	11.551	(1.196)	109297	5.00000	4.62(a)
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	43073	5.00000	4.66(a)
146	Methyl acetate	43	2.240	2.240	(0.536)	26540	5.00000	4.96(a)
138	Freon TF	101	1.921	1.921	(0.459)	27608	5.00000	5.95
141	Cyclohexane	56	4.121	4.121	(0.986)	36420	5.00000	6.24(H)
142	Tetrahydrofuran	42	3.863	3.863	(0.924)	12547	10.0000	10.82
147	Methylcyclohexane	55	5.400	5.400	(1.088)	65554	5.00000	4.66(aM)
135	1,4-Dioxane	88	5.610	5.610	(1.342)	7471	100.000	98.88
132	n-Butanol	56	5.287	5.287	(1.264)	9555	100.000	124.54(aM)
131	Methyl Acrylate	55	3.724	3.724	(0.891)	30863	5.00000	5.25(M)
133	Ethyl Acrylate	55	5.400	5.400	(1.291)	65654	5.00000	4.66(M)
136	n-Hexane	57	2.779	2.779	(0.665)	32239	5.00000	5.64
139	Diethyl ether	59	1.767	1.767	(0.423)	27668	5.00000	5.27
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	82288	100.000	103.36
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	46061	100.000	98.92
156	Diisopropyl ether	45	3.004	3.004	(0.719)	108028	5.00000	5.04
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	108618	5.00000	4.69(a)
167	Ethanol	45	1.707	1.707	(0.408)	8818	100.000	103.27
172	tert-Butyl formate	59	4.631	4.631	(1.108)	59001	10.0000	9.93
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	88114	100.000	105.05
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	121219	5.00000	4.99(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	97829	5.00000	5.08
176	tert-Amyl alcohol	59	4.631	4.631	(1.108)	59001	100.000	99.55
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	194771	100.000	104.86
180	1-Methylnaphthalene	142	12.642	12.642	(1.308)	46549	5.00000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	29685	5.00000	4.84(a)
152	Amyl alcohol	42	6.967	6.967	(0.909)	4083	100.000	55.56
158	Dichlorofluoromethane	67	1.539	1.539	(0.368)	53341	5.00000	5.20
159	Propylene oxide	43	1.808	1.808	(0.433)	9456	10.0000	9.85
161	3-Methyl-1-butanol	55	6.925	6.925	(0.903)	12975	100.000	84.52
162	Butyl acrylate	55	8.260	8.260	(1.077)	66548	5.00000	4.60(a)
163	Butyl methacrylate	41	9.174	9.174	(0.950)	49950	5.00000	4.94(a)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	137259	5.00000	5.18
182	Epichlorohydrin	57	6.108	6.108	(1.230)	11128	20.0000	19.44
M 94	1,2-Dichloroethylene (total)	96				67920	10.0000	10.38
M 95	Xylenes (total)	106				157746	15.0000	14.72(a)
130	Ethyl Acetate	43	3.679	3.679	(0.880)	35083	5.00000	5.14(M)
134	Cyclohexanone	55	8.646	8.646	(0.895)	32884	100.000	103.67(a)
185	Isoprene	39	1.778	1.778	(0.425)	11056	5.00000	4.46(a)
188	Isopropyl acetate	43	4.691	4.691	(0.945)	96528	5.00000	5.10
187	n-Amyl acetate	43	8.455	8.455	(1.103)	64999	5.00000	4.95(a)

189 n-Butyl acetate	43	7.221	7.221 (0.942)	50195	5.00000	4.92(aH)
150 Allyl alcohol	57	2.779	2.779 (0.665)	32239	100.000	114.55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.216	1.216	(0.291)	13449	20.0000	14.76(M)
195 Methyl Amyl Ketone	43	8.387	8.387	(1.094)	75828	5.00000	4.90(a)
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	53250	5.00000	4.55(a)
202 Isobutylene	41	1.246	1.246	(0.298)	3970	5.00000	5.09(M)
205 2-Ethylhexyl Acrylate	55	11.555	11.555	(1.196)	43209	5.00000	4.24(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Purge Volume: 5.0
Column phase: DB624

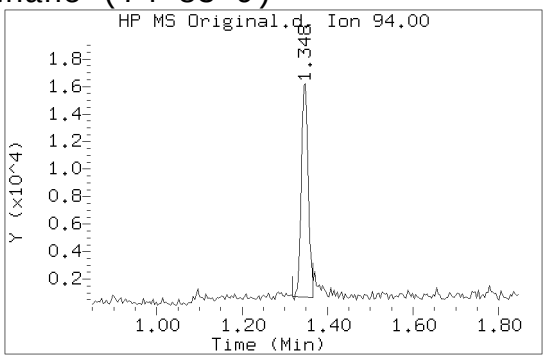
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Operator: PC
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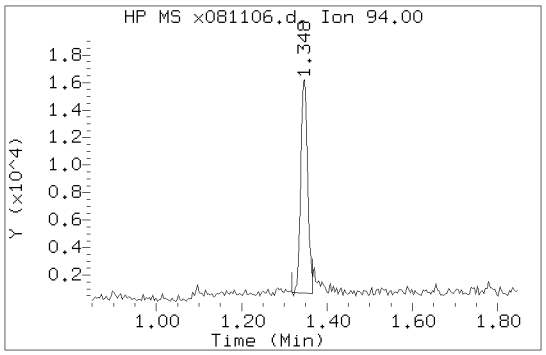
Bromomethane (74-83-9)

Reason Code:

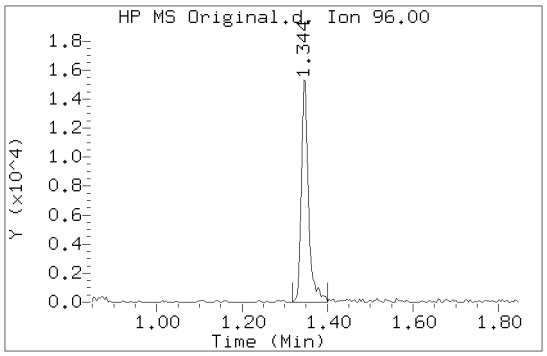
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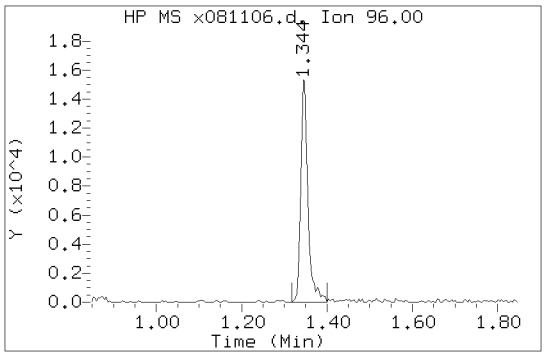
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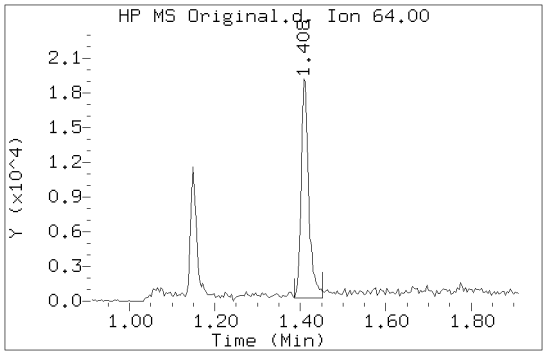
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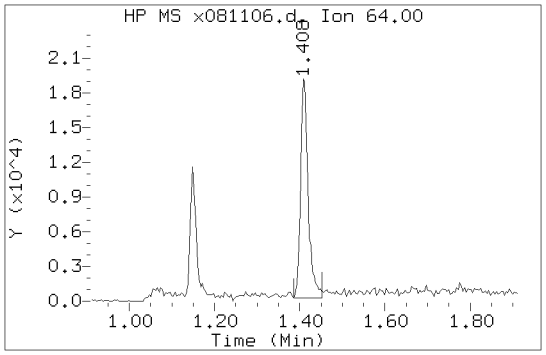
Chloroethane (75-00-3)

Reason Code:

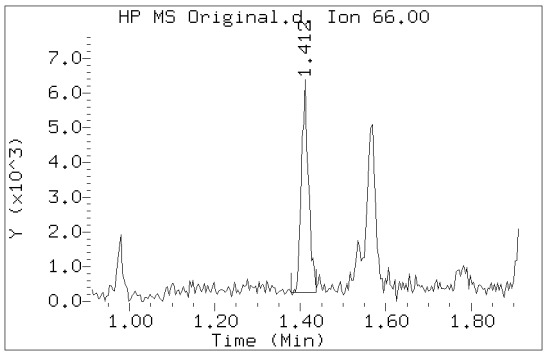
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12-Aug-2023
22:49



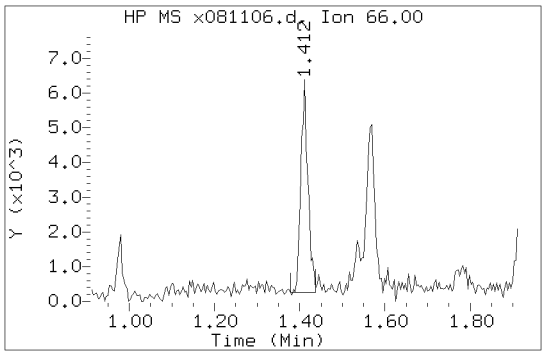
AFTER
MASS
64
AREA
24167
HEIGHT
18924
23-Aug-2023
11:11



BEFORE
MASS
64
AREA
11001
HEIGHT
11242
12-Aug-2023
22:49



AFTER
MASS
66
AREA
7327
HEIGHT
6136
23-Aug-2023
11:11



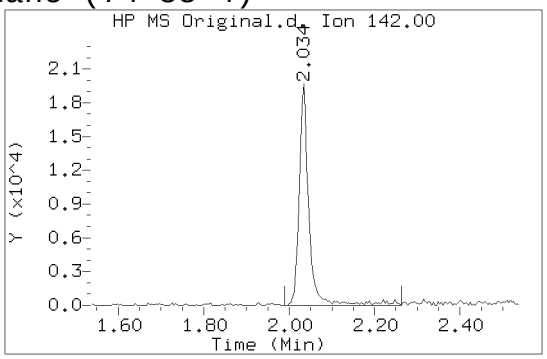
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Inj Date : 11-AUG-2023 13:15
InstruID : voa6.i
LabSampID : VSTD005

Iodomethane (74-88-4)

Reason Code:

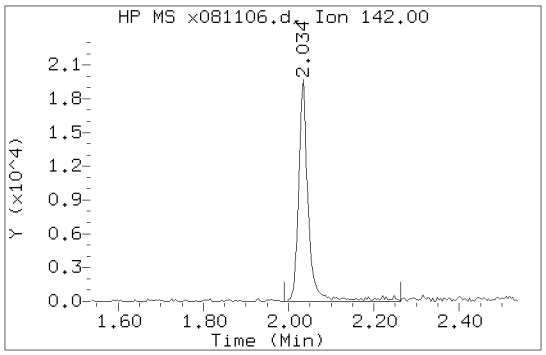
BEFORE

MASS
56
AREA
2218
HEIGHT
1345
12-Aug-2023
22:49



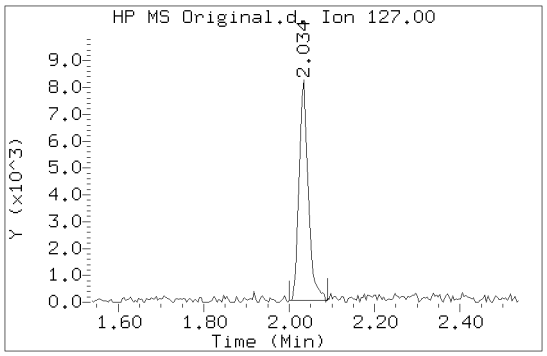
AFTER

MASS
142
AREA
31977
HEIGHT
19688
23-Aug-2023
11:11



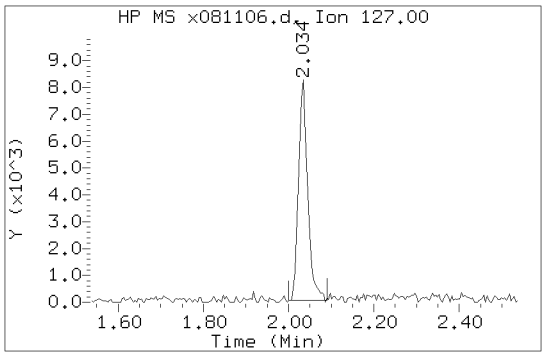
BEFORE

MASS
55
AREA
1598
HEIGHT
948
12-Aug-2023
22:49



AFTER

MASS
127
AREA
12524
HEIGHT
8205
23-Aug-2023
11:11

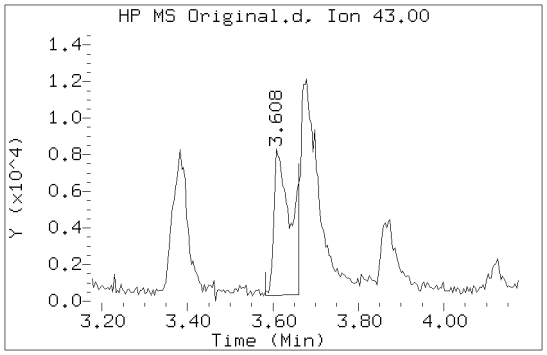


2-Butanone (78-93-3)

Reason Code:

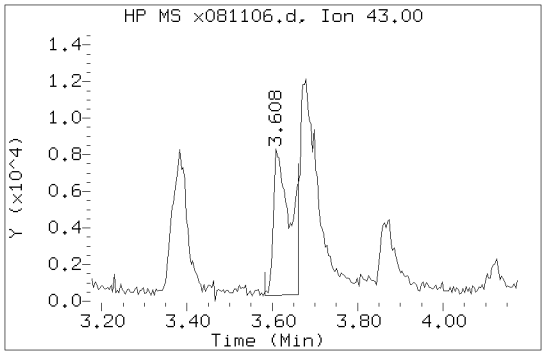
BEFORE

MASS
76
AREA
175609
HEIGHT
115983
12-Aug-2023
22:49



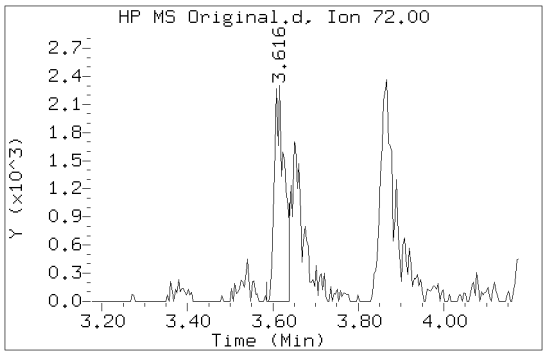
AFTER

MASS
43
AREA
21612
HEIGHT
7999
23-Aug-2023
11:11



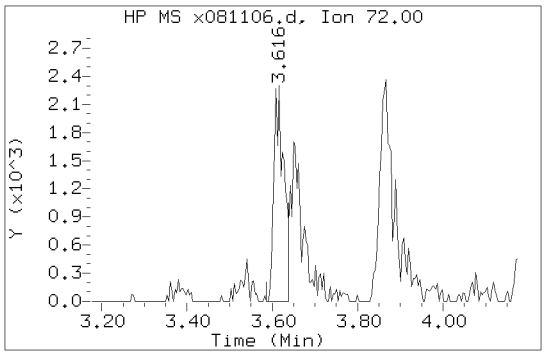
BEFORE

MASS
78
AREA
16796
HEIGHT
10460
12-Aug-2023
22:49



AFTER

MASS
72
AREA
3760
HEIGHT
2304
23-Aug-2023
11:11



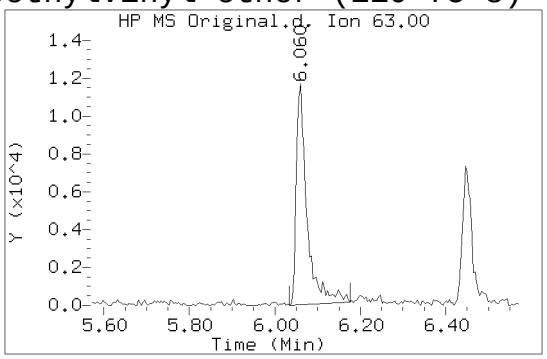
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Inj Date : 11-AUG-2023 13:15
InstruID : voa6.i
LabSampID : VSTD005

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

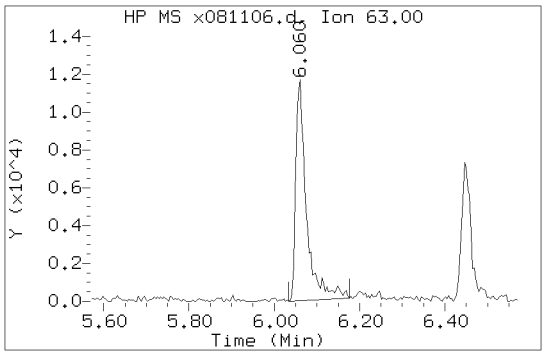
BEFORE

MASS
129
AREA
33839
HEIGHT
23736
12-Aug-2023
22:49



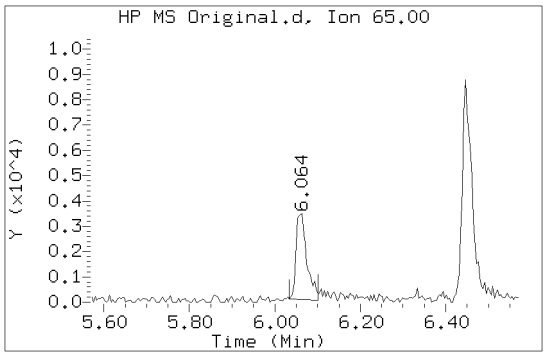
AFTER

MASS
63
AREA
20647
HEIGHT
11678
23-Aug-2023
11:11



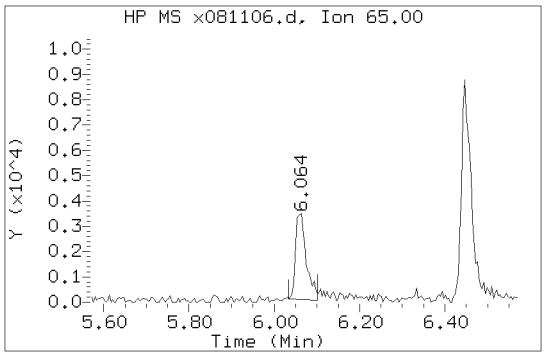
BEFORE

MASS
127
AREA
27133
HEIGHT
17984
12-Aug-2023
22:49



AFTER

MASS
65
AREA
6086
HEIGHT
3409
23-Aug-2023
11:11

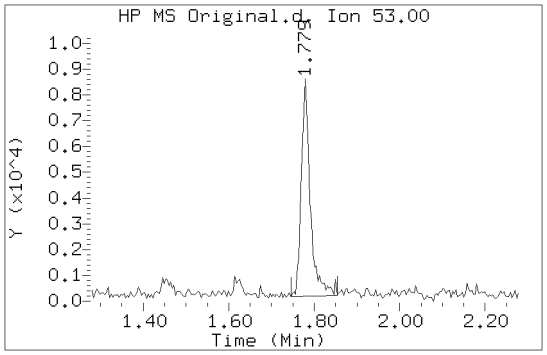


Chloroprene (126-99-8)

Reason Code:

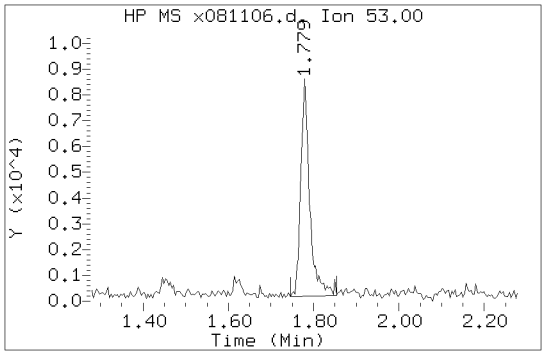
BEFORE

MASS
43
AREA
35083
HEIGHT
11733
12-Aug-2023
22:49



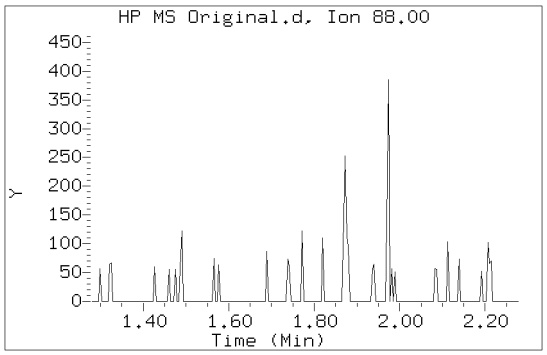
AFTER

MASS
53
AREA
12759
HEIGHT
8433
23-Aug-2023
11:11



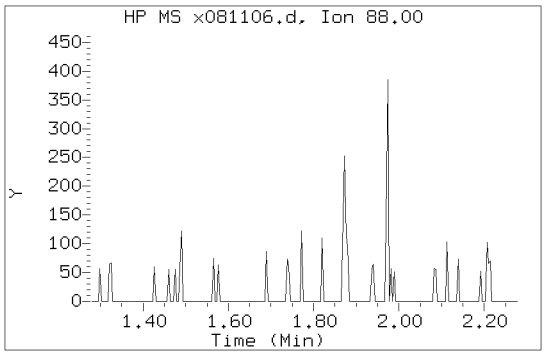
BEFORE

MASS
61
AREA
4008
HEIGHT
1690
12-Aug-2023
22:49



AFTER

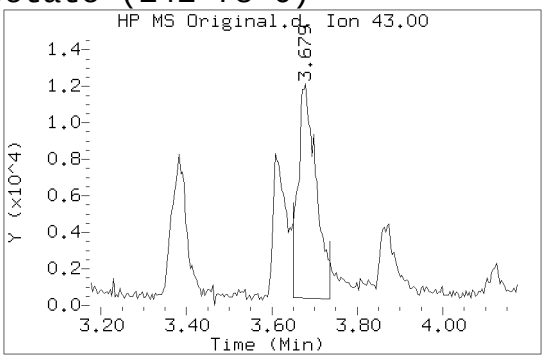
MASS
88
AREA
0
HEIGHT
0
23-Aug-2023
11:11



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LabSampID : VSTD005

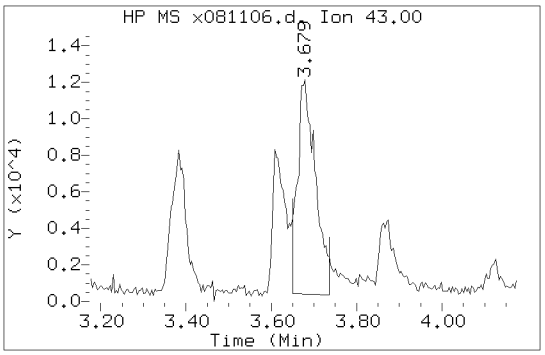
Ethyl Acetate (141-78-6)

BEFORE
MASS
55
AREA
30863
HEIGHT
6309
12-Aug-2023
22:49

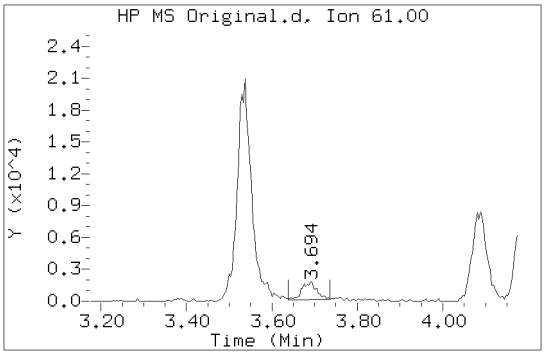


AFTER
MASS
43
AREA
35083
HEIGHT
11733
23-Aug-2023
11:11

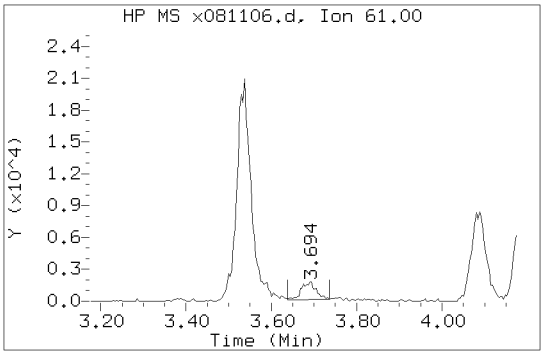
Reason Code:



BEFORE
MASS
85
AREA
3554
HEIGHT
1491
12-Aug-2023
22:49

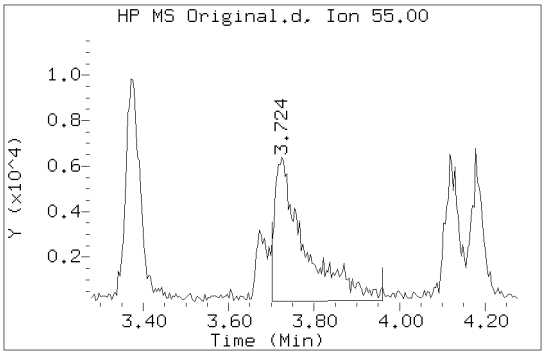


AFTER
MASS
61
AREA
4008
HEIGHT
1690
23-Aug-2023
11:11



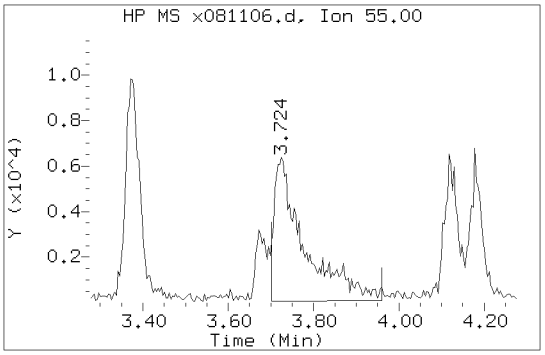
Methyl Acrylate (96-33-3)

BEFORE
MASS
56
AREA
9555
HEIGHT
4115
12-Aug-2023
22:49

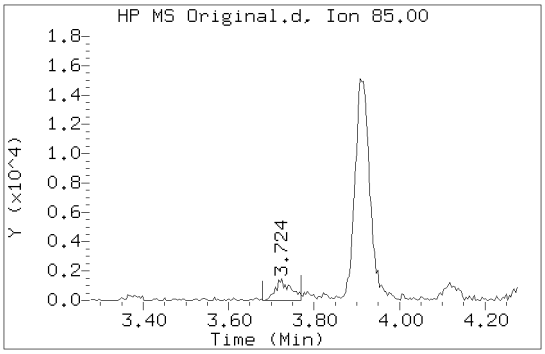


AFTER
MASS
55
AREA
30863
HEIGHT
6309
23-Aug-2023
11:11

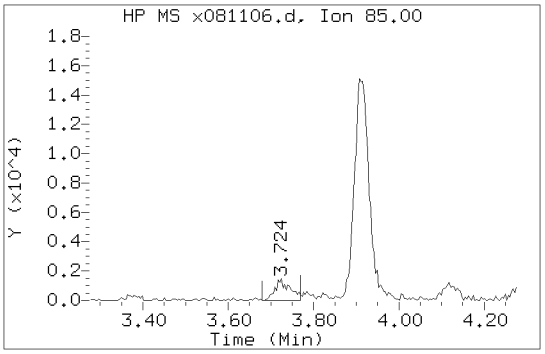
Reason Code:



BEFORE
MASS
41
AREA
19670
HEIGHT
8754
12-Aug-2023
22:49



AFTER
MASS
85
AREA
3554
HEIGHT
1491
23-Aug-2023
11:11

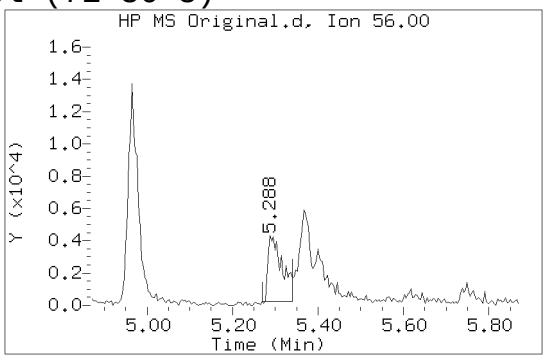


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LabSampID : VSTD005

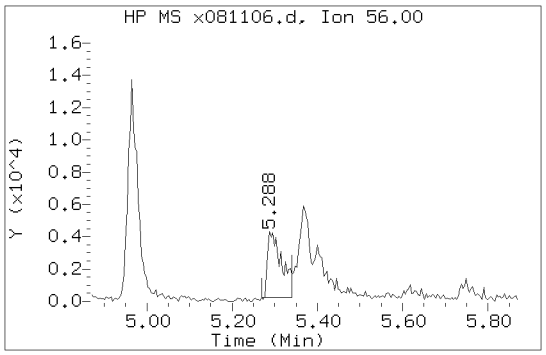
n-Butanol (71-36-3)

Reason Code:

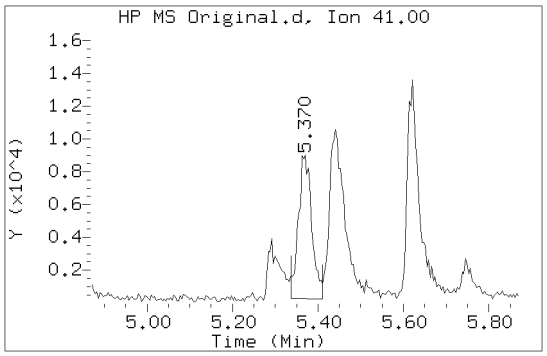
BEFORE
MASS
55
AREA
65654
HEIGHT
18419
12-Aug-2023
22:49



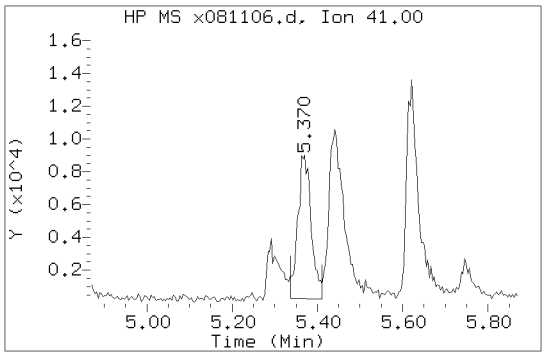
AFTER
MASS
56
AREA
9555
HEIGHT
4115
23-Aug-2023
11:11



BEFORE
MASS
99
AREA
1505
HEIGHT
1011
12-Aug-2023
22:49



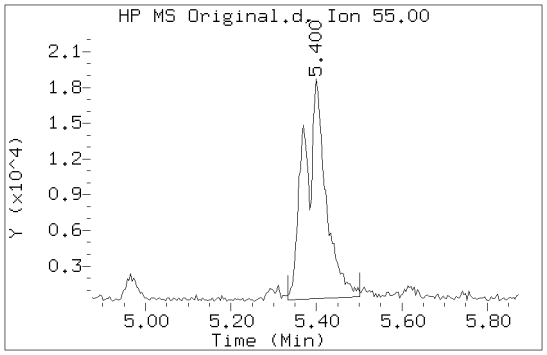
AFTER
MASS
41
AREA
19670
HEIGHT
8754
23-Aug-2023
11:11



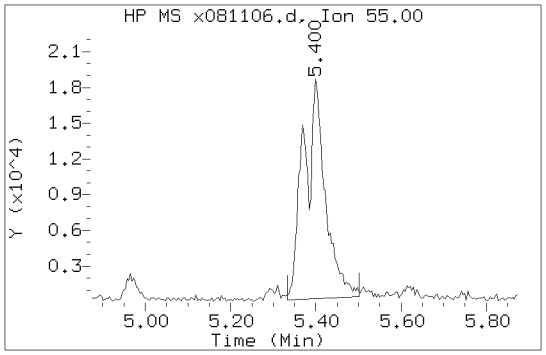
Ethyl Acrylate (140-88-5)

Reason Code:

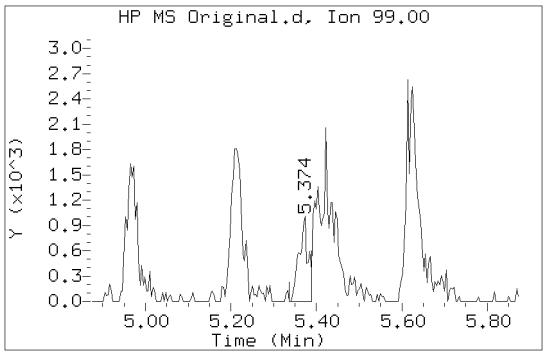
BEFORE
MASS
55
AREA
32884
HEIGHT
21499
12-Aug-2023
22:49



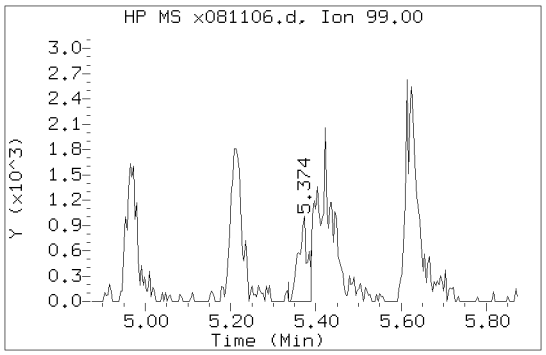
AFTER
MASS
55
AREA
65654
HEIGHT
18419
23-Aug-2023
11:11



BEFORE
MASS
42
AREA
23311
HEIGHT
15555
12-Aug-2023
22:49



AFTER
MASS
99
AREA
1505
HEIGHT
1011
23-Aug-2023
11:11

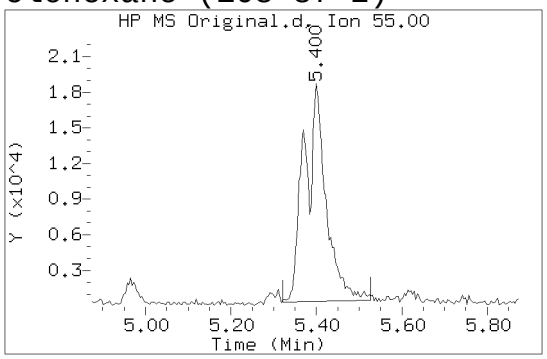


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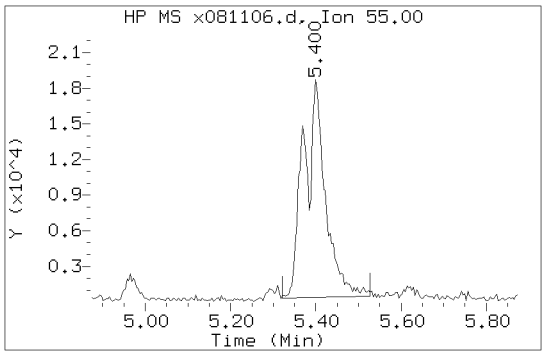
Methylcyclohexane (108-87-2)

Reason Code:

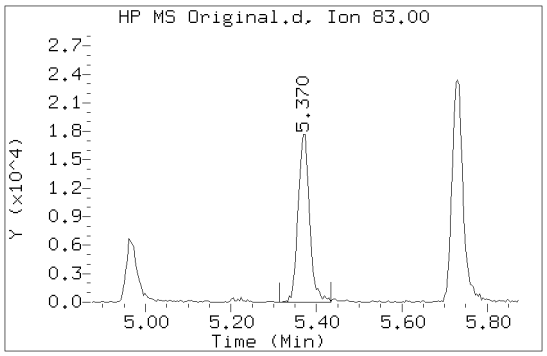
BEFORE
MASS
118
AREA
49376
HEIGHT
36744
12-Aug-2023
22:49



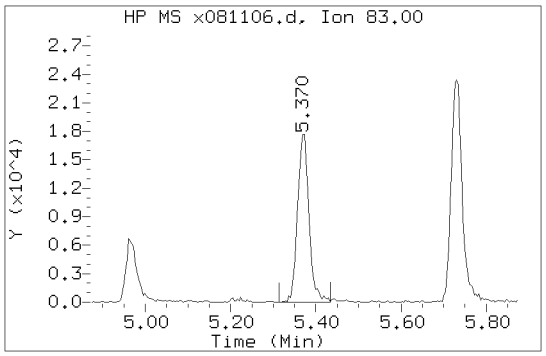
AFTER
MASS
55
AREA
65554
HEIGHT
18313
23-Aug-2023
11:11



BEFORE
MASS
103
AREA
27493
HEIGHT
20136
12-Aug-2023
22:49



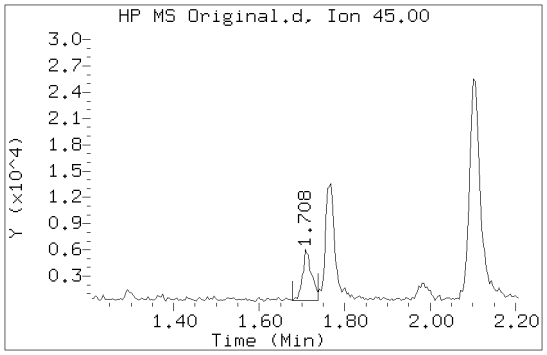
AFTER
MASS
83
AREA
33817
HEIGHT
17680
23-Aug-2023
11:11



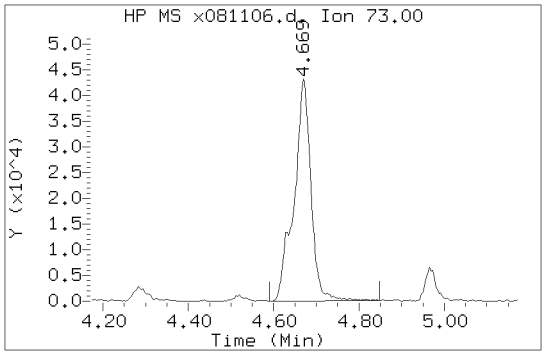
tert-Amyl methyl ether (974-05-08)

Reason Code:

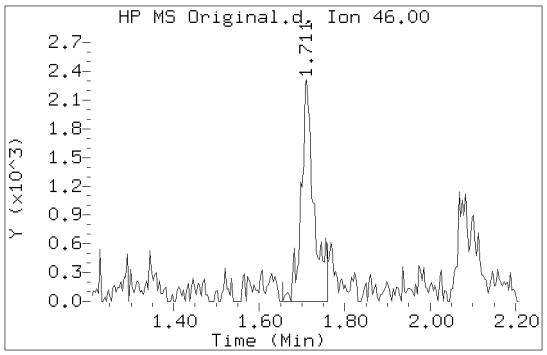
BEFORE
MASS
95
AREA
49251
HEIGHT
34704
12-Aug-2023
22:49



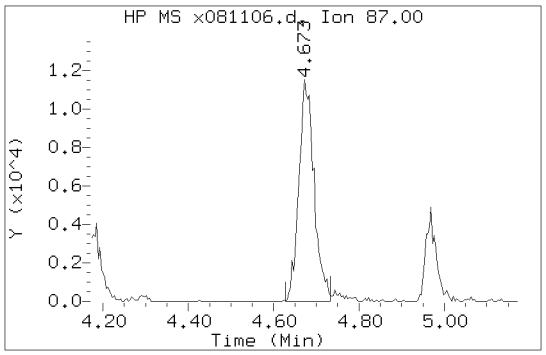
AFTER
MASS
73
AREA
121219
HEIGHT
43209
23-Aug-2023
11:11



BEFORE
MASS
174
AREA
46321
HEIGHT
33704
12-Aug-2023
22:49



AFTER
MASS
87
AREA
28922
HEIGHT
11541
23-Aug-2023
11:11



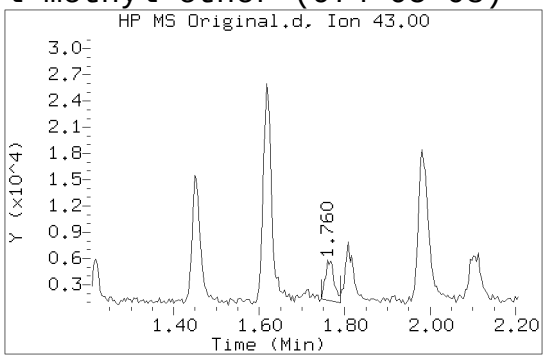
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LabSampID : VSTD005

tert-Amyl methyl ether (974-05-08)

Reason Code:

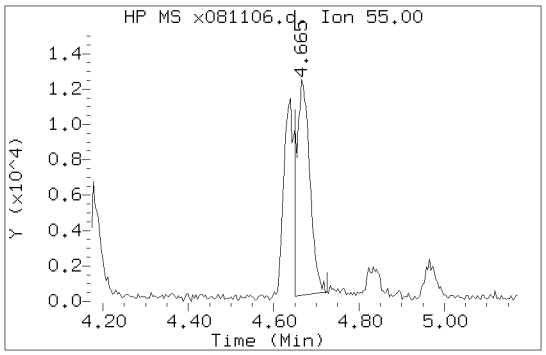
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22:49



AFTER

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23-Aug-2023
11:11



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081107.D Page 1
Report Date: 24-Aug-2023 12:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081107.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 11-AUG-2023 13:36
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 24-Aug-2023 12:31 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 12:35 Cal File: X081104.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	594179	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	99620	20.0000	18.71
3	Chloromethane	50	1.085	1.085	(0.260)	99333	20.0000	17.17
4	Propionitrile	54	3.660	3.660	(0.875)	160298	200.000	193.72(a)
5	Vinyl Chloride	62	1.149	1.149	(0.275)	131824	20.0000	18.49
6	Bromomethane	94	1.347	1.347	(0.322)	66144	20.0000	17.24
7	Chloroethane	64	1.407	1.407	(0.337)	87886	20.0000	18.81
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	185034	20.0000	18.24
9	Acrolein	56	1.865	1.865	(0.446)	7342	40.0000	35.98(H)
10	Acetone	43	1.981	1.981	(0.474)	100132	40.0000	40.98
11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	106371	20.0000	18.54
12	Isobutyl Alcohol	43	4.684	4.684	(1.120)	366430	400.000	393.42(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	176623	200.000	192.74(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	336437	20.0000	18.58(a)
15	Iodomethane	142	2.030	2.030	(0.485)	171922	40.0000	30.15
16	Acrylonitrile	53	2.543	2.543	(0.608)	107147	40.0000	38.76
17	Methylene Chloride	84	2.307	2.307	(0.552)	143307	20.0000	19.91
18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	388395	20.0000	18.97
19	Carbon Disulfide	76	2.075	2.075	(0.496)	644484	40.0000	37.85
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	128440	20.0000	19.26

21 Vinyl Acetate	43	3.004	3.004 (0.719)	779470	40.0000	39.52
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	239723	20.0000	19.09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.778	1.778	(0.425)	45834	20.0000	18.23(M)
	24 2-Butanone	43	3.593	3.593	(0.859)	78570	40.0000	35.72(H)
	25 Methacrylonitrile	41	3.836	3.836	(0.918)	114783	20.0000	19.36(a)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	162441	20.0000	19.26
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	126395	20.0000	19.74
	28 Chloroform	83	3.911	3.911	(0.935)	214801	20.0000	19.51
	29 Bromochloromethane	128	3.799	3.799	(0.909)	69658	20.0000	19.13
$	30 Dibromofluoromethane	113	4.106	4.106	(0.982)	119843	20.0000	21.52
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	170734	20.0000	19.32
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	142215	20.0000	18.93(H)
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	174386	20.0000	19.21
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	140370	20.0000	17.70(H)
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	130066	20.0000	20.79
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	954542	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	448606	20.0000	19.08
	38 Trichloroethene	130	5.208	5.208	(1.049)	126937	20.0000	18.78
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	165416	20.0000	18.89
	40 Methyl Methacrylate	41	5.610	5.610	(1.342)	104538	20.0000	19.12(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	81477	40.0000	36.37
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	124523	20.0000	18.78
	43 2-Nitropropane	43	5.973	5.973	(1.428)	38364	20.0000	17.57
	44 Dibromomethane	93	5.553	5.553	(1.119)	84627	20.0000	18.67
	45 4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	249622	40.0000	38.79
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	189727	20.0000	18.93
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	897079	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	408559	20.0000	19.35
	49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	167313	20.0000	19.13(aH)
	50 Toluene	91	6.446	6.446	(0.841)	473181	20.0000	18.92
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	155214	20.0000	18.45
	52 2-Hexanone	43	7.090	7.090	(0.925)	171498	40.0000	39.70
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	97724	20.0000	19.61
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	193640	20.0000	19.01
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	139248	20.0000	19.36
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	97904	20.0000	18.84
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	120578	20.0000	19.80
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	93256	20.0000	16.88(M)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	326753	20.0000	18.97
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	129317	20.0000	19.43
	61 Ethylbenzene	106	7.795	7.795	(1.017)	165338	20.0000	19.43
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	420476	40.0000	38.64
	63 o-Xylene	106	8.241	8.241	(1.075)	205919	20.0000	19.20
	64 Styrene	104	8.256	8.256	(1.077)	354808	20.0000	19.89
	66 Bromoform	173	8.410	8.410	(1.097)	95387	20.0000	19.65
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	505663	20.0000	18.97
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	159320	20.0000	19.39
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	175173	20.0000	19.95
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	504555	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	118920	20.0000	19.68(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	41908	20.0000	18.52(aH)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	592736	20.0000	19.86
	74 Bromobenzene	156	8.803	8.803	(0.912)	159999	20.0000	19.84
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	423856	20.0000	19.43

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	376667	20.0000	19.71
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	432420	20.0000	19.67

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Report Date: 24-Aug-2023 12:31

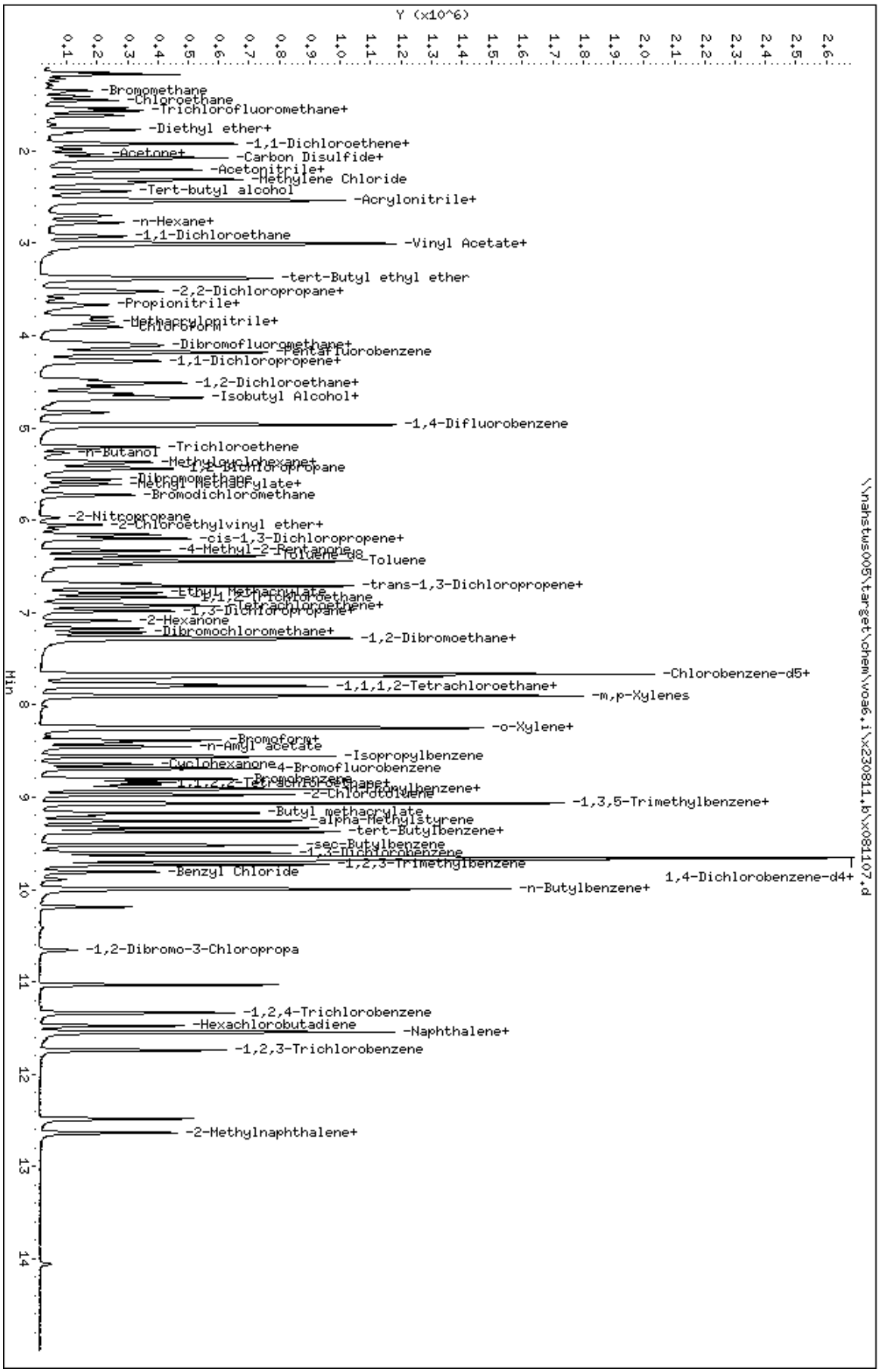
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	364564	20.0000	19.51
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	432105	20.0000	19.24
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	485819	20.0000	18.96
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	449583	20.0000	19.41
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	278790	20.0000	19.41
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	295894	20.0000	19.23
86	Benzyl Chloride	91	9.808	9.808	(1.279)	233132	20.0000	18.15
87	n-Butylbenzene	91	9.992	9.992	(1.035)	387389	20.0000	18.50
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.035)	283339	20.0000	19.54
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.104)	25685	20.0000	18.49
90	1,2,4-Trichlorobenzene	180	11.338	11.338	(1.174)	185838	20.0000	19.37
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	73649	20.0000	22.23
92	Naphthalene	128	11.544	11.544	(1.195)	460009	20.0000	19.20
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	171743	20.0000	18.36
146	Methyl acetate	43	2.236	2.236	(0.535)	107794	20.0000	20.18
138	Freon TF	101	1.921	1.921	(0.459)	98415	20.0000	18.33
141	Cyclohexane	56	4.118	4.118	(0.985)	130025	20.0000	17.59(M)
142	Tetrahydrofuran	42	3.855	3.855	(0.922)	42663	40.0000	36.80
147	Methylcyclohexane	55	5.388	5.388	(1.085)	259972	20.0000	18.12
135	1,4-Dioxane	88	5.602	5.602	(1.340)	27941	400.000	369.95
132	n-Butanol	56	5.268	5.268	(1.260)	50123	400.000	365.12(TaM)
131	Methyl Acrylate	55	3.702	3.702	(0.885)	105819	20.0000	18.02(M)
133	Ethyl Acrylate	55	5.388	5.388	(1.289)	259972	20.0000	18.49
136	n-Hexane	57	2.776	2.776	(0.664)	118882	20.0000	22.69
139	Diethyl ether	59	1.763	1.763	(0.422)	100918	20.0000	19.24
148	Tert-butyl alcohol	59	2.435	2.435	(0.582)	300900	400.000	412.57
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	173548	400.000	408.56
156	Diisopropyl ether	45	3.004	3.004	(0.719)	403075	20.0000	18.83
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	427412	20.0000	18.25
167	Ethanol	45	1.707	1.707	(0.408)	29323	400.000	402.22
172	tert-Butyl formate	59	4.631	4.631	(1.108)	225035	40.0000	37.90
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	305457	400.000	360.39
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	459457	20.0000	18.48(M)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	370349	20.0000	18.73
176	tert-Amyl alcohol	59	4.631	4.631	(1.108)	225035	400.000	379.87
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	605051	400.000	319.33
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	197826	20.0000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	109945	20.0000	17.96
152	Amyl alcohol	42	6.974	6.974	(0.910)	8159	400.000	109.87
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	196930	20.0000	19.21
159	Propylene oxide	43	1.808	1.808	(0.433)	31615	40.0000	32.96
161	3-Methyl-1-butanol	55	6.907	6.907	(0.901)	57224	400.000	368.88
162	Butyl acrylate	55	8.252	8.252	(1.076)	269198	20.0000	18.42
163	Butyl methacrylate	41	9.167	9.167	(0.949)	199878	20.0000	19.54
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	526364	20.0000	19.76
182	Epichlorohydrin	57	6.097	6.097	(1.228)	45976	80.0000	78.75(M)
M 94	1,2-Dichloroethylene (total)	96				254835	40.0000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	212279	20.0000	19.78
130	Ethyl Acetate	43	3.664	3.664	(0.876)	141943	20.0000	20.81
134	Cyclohexanone	55	8.642	8.642	(0.895)	125047	400.000	389.18(a)
185	Isoprene	39	1.775	1.775	(0.425)	46314	20.0000	18.72
188	Isopropyl acetate	43	4.684	4.684	(0.943)	370663	20.0000	19.22

187 n-Amyl acetate	43	8.451	8.451 (1.102)	255175	20.0000	19.26
189 n-Butyl acetate	43	7.214	7.214 (0.941)	202932	20.0000	19.72(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.776	2.776	(0.664)	118882	400.000	454.42
194 Acetaldehyde	44	1.216	1.216	(0.291)	59320	80.0000	94.63(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	300879	20.0000	19.26
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	233902	20.0000	19.80
202 Isobutylene	41	1.242	1.242	(0.297)	14022	20.0000	17.98(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	196161	20.0000	19.03

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Column phase: DB624

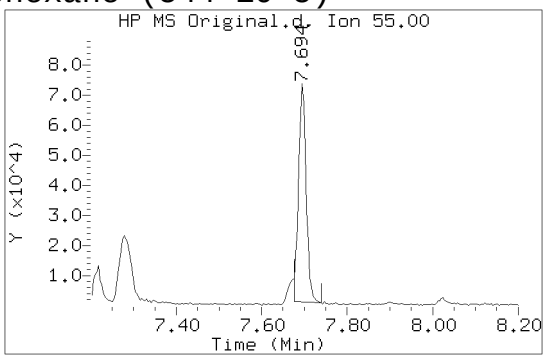
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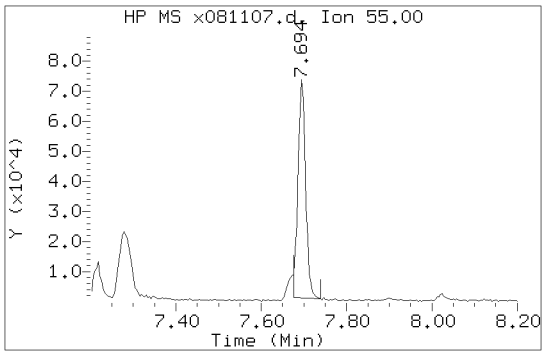
1-Chlorohexane (544-10-5)

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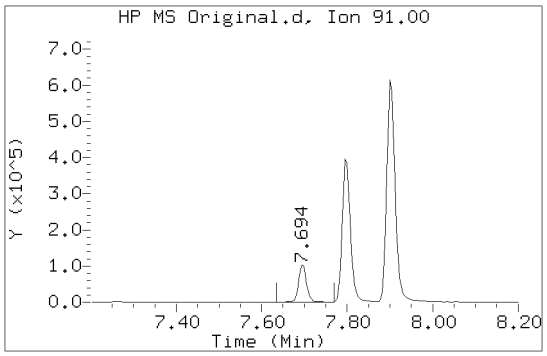
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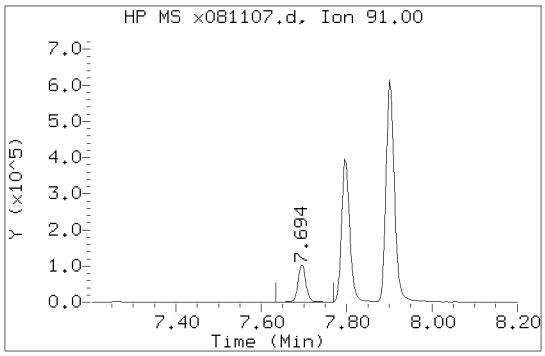
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12-Aug-2023
22:49



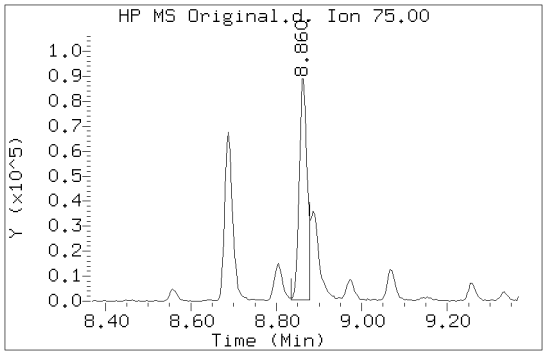
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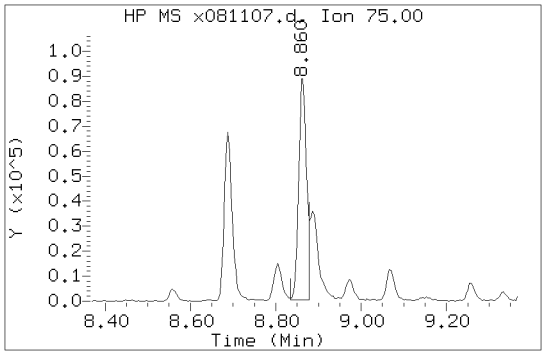
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Reason Code:

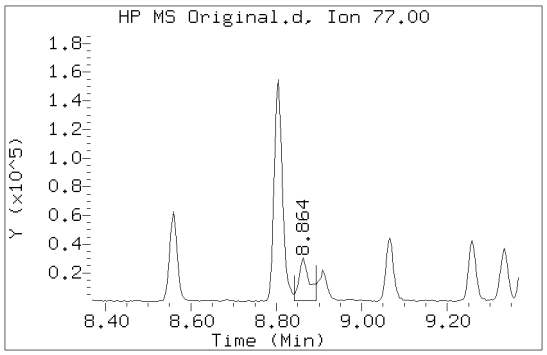
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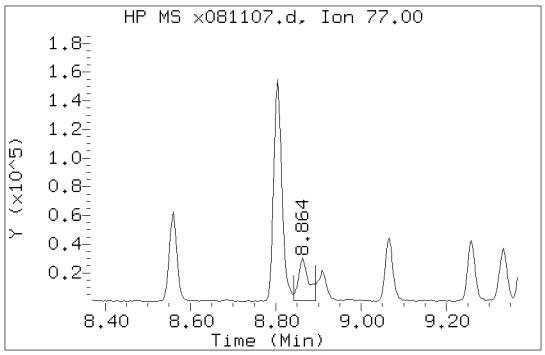
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BEFORE
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AFTER
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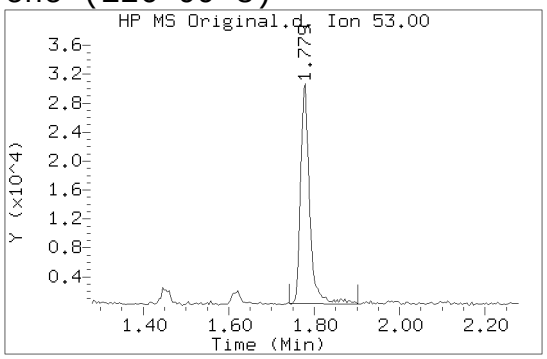


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InstruID : voa6.i
LabSampID : VSTD020

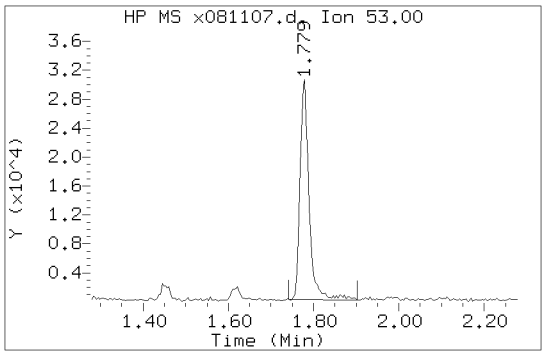
Chloroprene (126-99-8)

Reason Code:

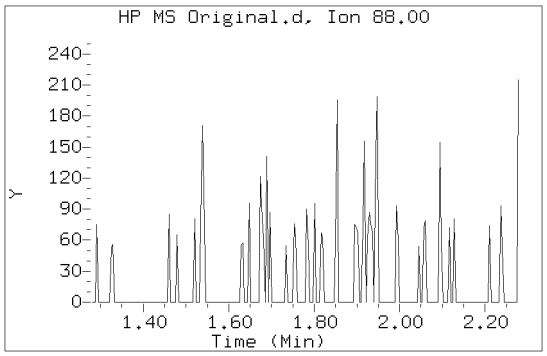
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12-Aug-2023
22:49



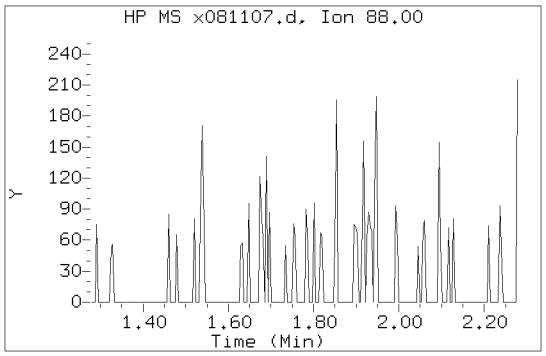
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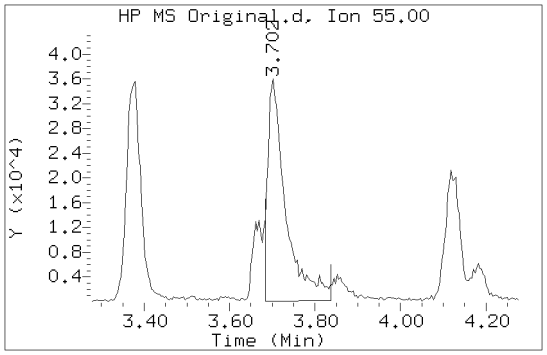
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23-Aug-2023
11:11



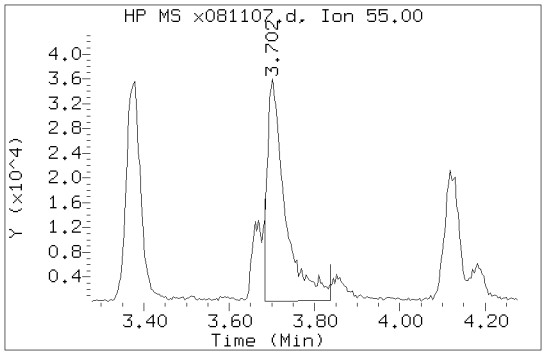
Methyl Acrylate (96-33-3)

Reason Code:

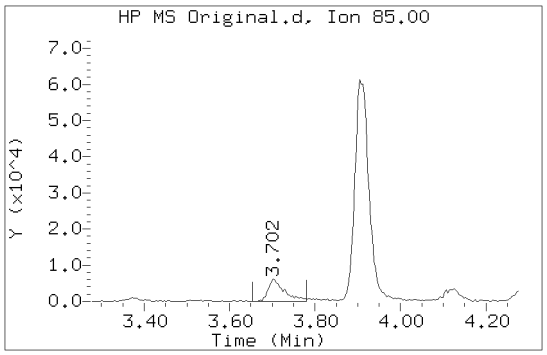
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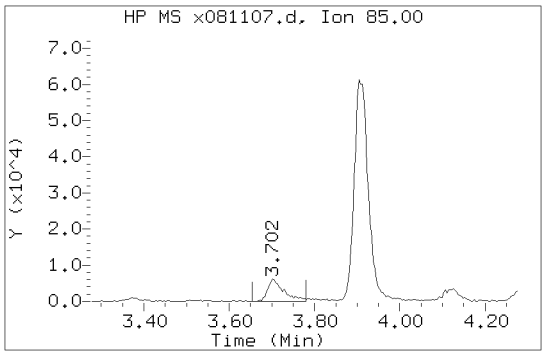
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BEFORE
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22:49



AFTER
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23-Aug-2023
11:11

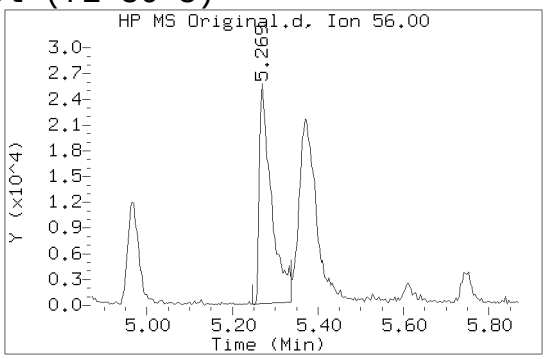


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LabSampID : VSTD020

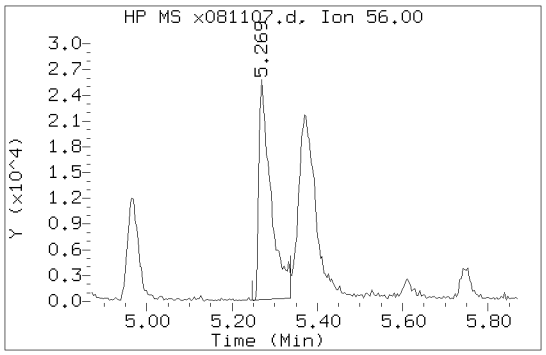
n-Butanol (71-36-3)

Reason Code:

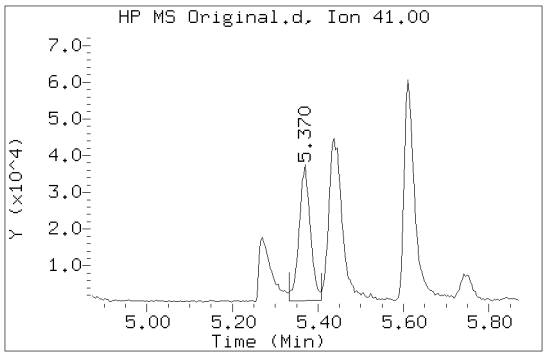
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22:49



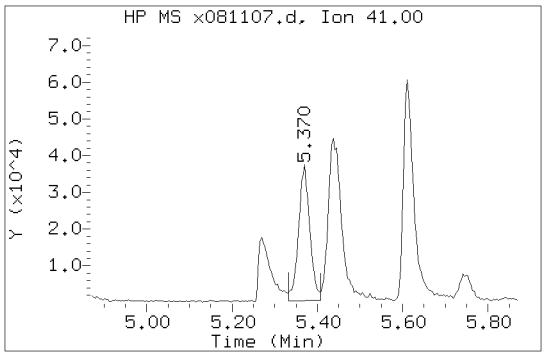
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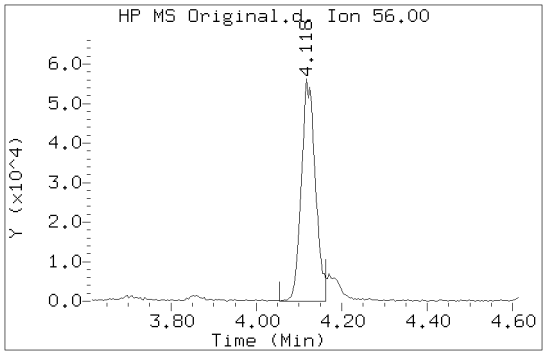
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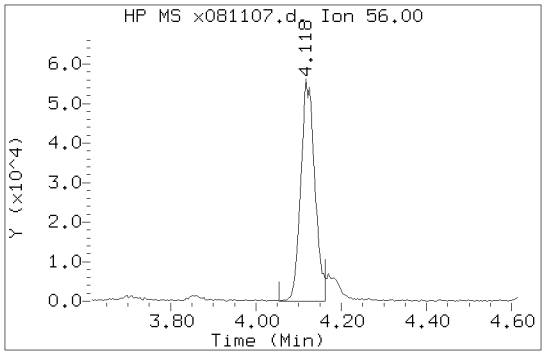
Cyclohexane (110-82-7)

Reason Code:

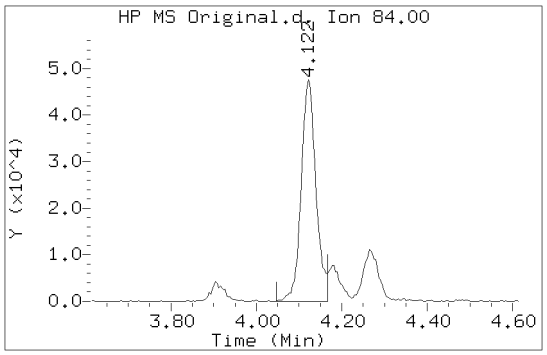
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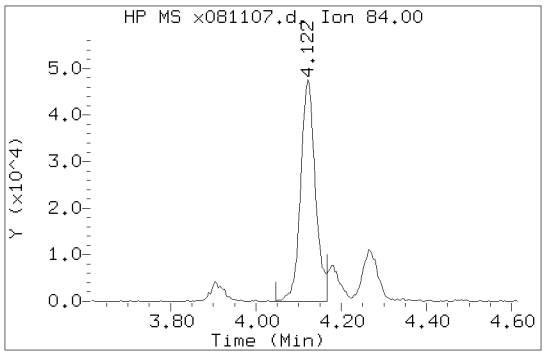
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23-Aug-2023
11:11



BEFORE
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AREA
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22:49



AFTER
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23-Aug-2023
11:11

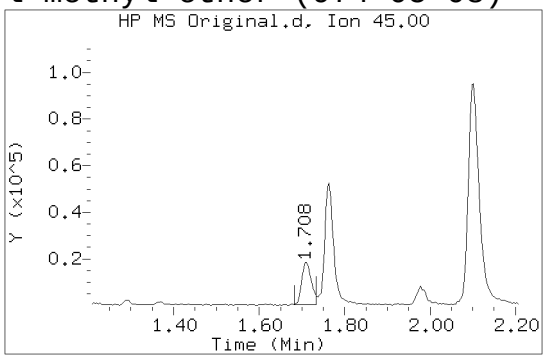


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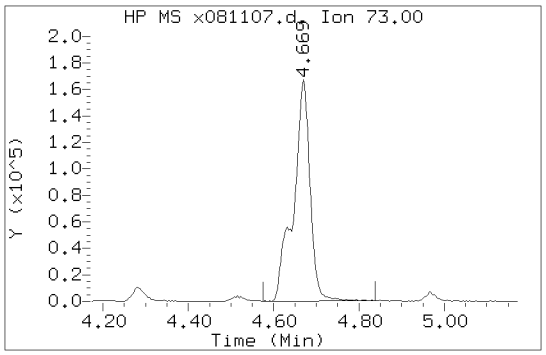
tert-Amyl methyl ether (974-05-08)

Reason Code:

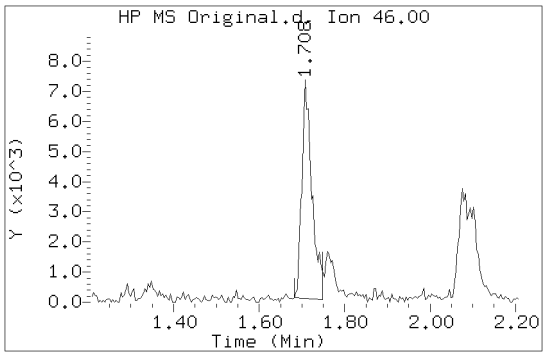
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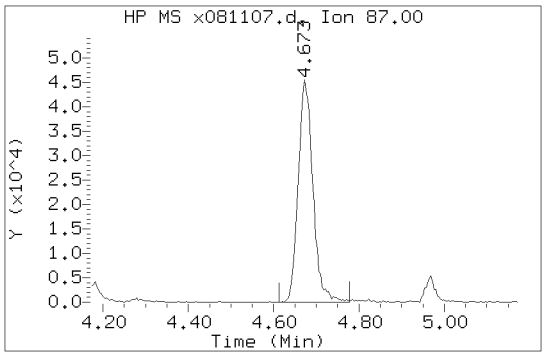
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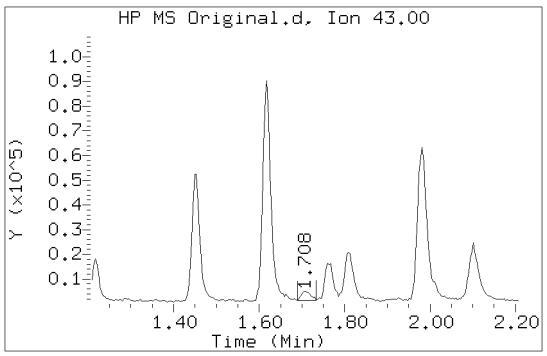
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22:49



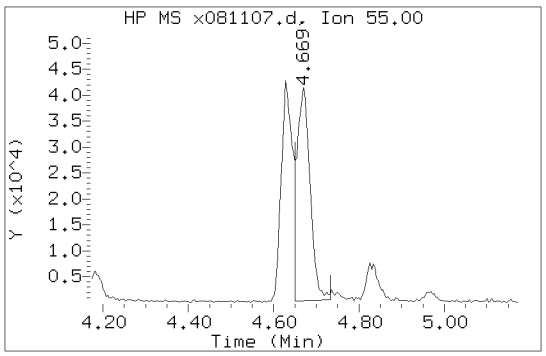
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BEFORE
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12-Aug-2023
22:49



AFTER
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23-Aug-2023
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ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081108.D
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Inj Date : 11-AUG-2023 13:56
Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
Comment :
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Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	625938	50.0000	
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	255633	50.0000	44.62
3	Chloromethane	50	1.085	1.085	(0.260)	252266	50.0000	41.41
4	Propionitrile	54	3.660	3.660	(0.875)	442782	500.000	507.95
5	Vinyl Chloride	62	1.149	1.149	(0.275)	348444	50.0000	46.41
6	Bromomethane	94	1.344	1.344	(0.321)	175230	50.0000	43.35
7	Chloroethane	64	1.407	1.407	(0.337)	227926	50.0000	46.31
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	471489	50.0000	44.12
9	Acrolein	56	1.868	1.868	(0.447)	22472	100.000	109.78(M)
10	Acetone	43	1.977	1.977	(0.473)	247355	100.000	102.29
11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	272717	50.0000	45.12
12	Isobutyl Alcohol	43	4.680	4.680	(1.119)	957978	1000.00	976.37
13	Acetonitrile	39	2.202	2.202	(0.527)	466698	500.000	483.46
14	Allyl Chloride	41	2.202	2.202	(0.527)	902455	50.0000	47.32
15	Iodomethane	142	2.033	2.033	(0.486)	646092	100.000	91.55
16	Acrylonitrile	53	2.539	2.539	(0.607)	277128	100.000	95.18
17	Methylene Chloride	84	2.307	2.307	(0.552)	351292	50.0000	46.34
18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	1034145	50.0000	47.96
19	Carbon Disulfide	76	2.075	2.075	(0.496)	1686583	100.000	94.02
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	328345	50.0000	46.74
21	Vinyl Acetate	43	3.000	3.000	(0.718)	2062146	100.000	99.25

22 1,1-Dichloroethane	63	2.926	2.926 (0.700)	616011	50.0000	46.57
23 Chloroprene	53	1.775	1.775 (0.424)	115869	50.0000	43.75(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	3.585	3.585	(0.857)	238982	100.000	103.14(H)
	25 Methacrylonitrile	41	3.829	3.829	(0.916)	304721	50.0000	48.81(a)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	420039	50.0000	47.30
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	328642	50.0000	48.72
	28 Chloroform	83	3.908	3.908	(0.935)	553085	50.0000	47.70
	29 Bromochloromethane	128	3.795	3.795	(0.908)	180912	50.0000	47.18
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	277572	50.0000	48.32
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	441440	50.0000	47.42
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	361675	50.0000	45.59(H)
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	449454	50.0000	46.89
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	362480	50.0000	43.28(H)
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	321172	50.0000	50.23
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1008183	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	1163806	50.0000	46.86
	38 Trichloroethene	130	5.205	5.205	(1.048)	330245	50.0000	46.27
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	432633	50.0000	46.77
	40 Methyl Methacrylate	41	5.606	5.606	(1.341)	286102	50.0000	49.67
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	212271	100.000	89.71
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	325555	50.0000	46.49
	43 2-Nitropropane	43	5.969	5.969	(1.428)	103306	50.0000	44.93
	44 Dibromomethane	93	5.550	5.550	(1.118)	216805	50.0000	45.30
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	644425	100.000	94.11
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	501073	50.0000	47.34
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	954561	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	939847	50.0000	41.83
	49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	441120	50.0000	47.75(H)
	50 Toluene	91	6.445	6.445	(0.841)	1246104	50.0000	46.84
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	415765	50.0000	46.80
	52 2-Hexanone	43	7.086	7.086	(0.924)	438931	100.000	95.49
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	251037	50.0000	47.34
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	508446	50.0000	46.91
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	378042	50.0000	49.40
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	253710	50.0000	45.89
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	313080	50.0000	48.33
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	253055	50.0000	43.38
	59 Chlorobenzene	112	7.690	7.690	(1.003)	864270	50.0000	47.15
	60 1,1,1,2-Tetrachloroethane	131	7.769	7.769	(1.013)	339679	50.0000	47.98
	61 Ethylbenzene	106	7.795	7.795	(1.017)	430082	50.0000	47.51
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	1109770	100.000	95.85
	63 o-Xylene	106	8.237	8.237	(1.074)	531737	50.0000	46.60
	64 Styrene	104	8.256	8.256	(1.077)	951185	50.0000	50.13
	66 Bromoform	173	8.406	8.406	(1.096)	256325	50.0000	49.64
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1309182	50.0000	46.17
	68 1,1,2,2-Tetrachloroethane	83	8.833	8.833	(0.915)	420510	50.0000	46.63
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	440611	50.0000	46.77
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	553886	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	326171	50.0000	49.19(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	110164	50.0000	45.77(H)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1552046	50.0000	47.39
	74 Bromobenzene	156	8.803	8.803	(0.912)	419375	50.0000	47.37
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	1120554	50.0000	46.80
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	970543	50.0000	46.27

77	4-Chlorotoluene	91	9.066	9.066 (0.939)	1143652	50.0000	47.39
78	tert-Butylbenzene	119	9.332	9.332 (0.966)	941886	50.0000	45.91

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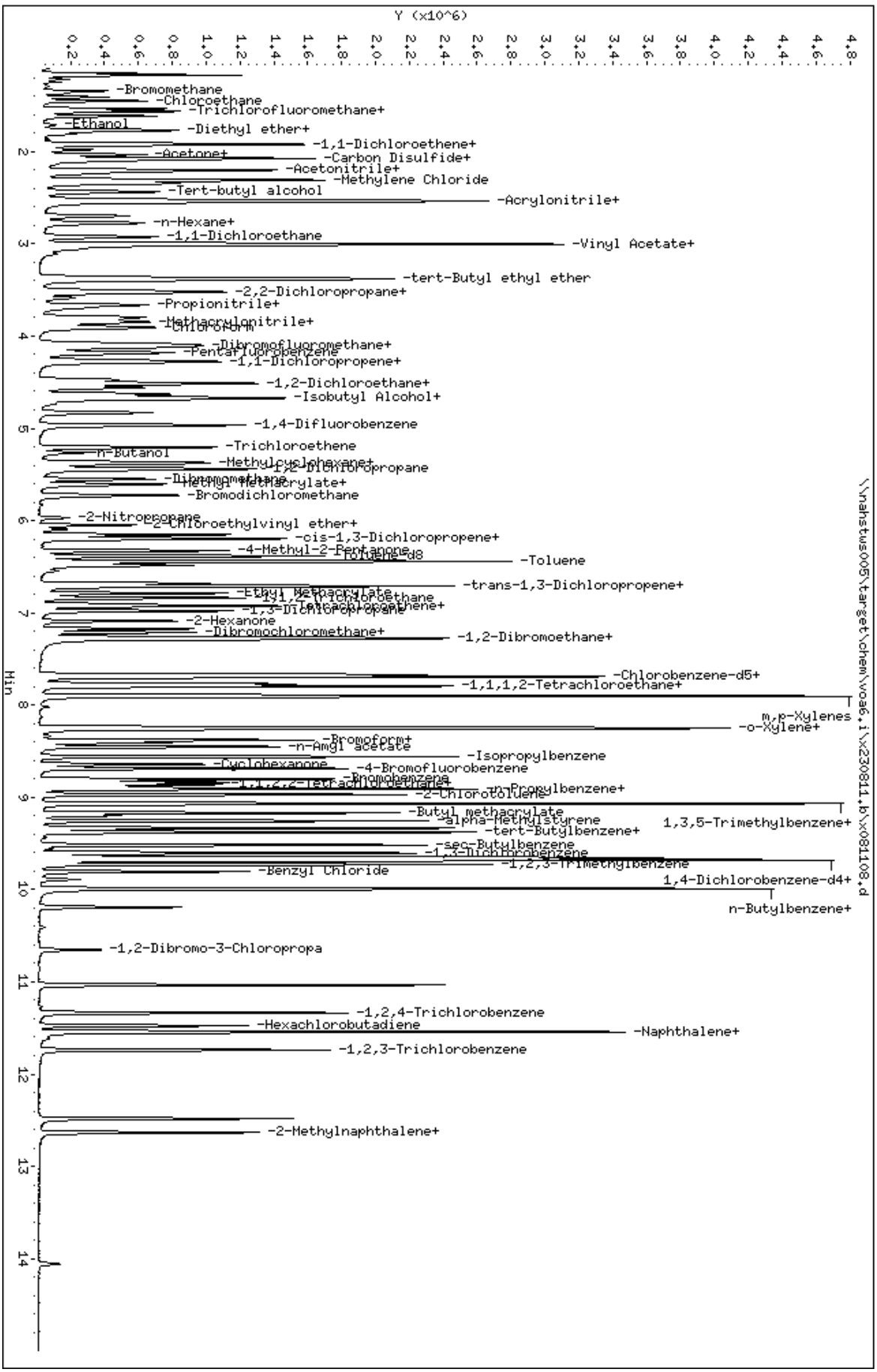
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1141051	50.0000	46.28
81	sec-Butylbenzene	105	9.516	9.516	(0.985)	1282761	50.0000	45.61
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	1159726	50.0000	45.61
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	746453	50.0000	47.34
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	797053	50.0000	47.20
86	Benzyl Chloride	91	9.804	9.804	(1.279)	694747	50.0000	50.84
87	n-Butylbenzene	91	9.992	9.992	(1.035)	1021843	50.0000	41.63
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	749344	50.0000	47.08
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	72896	50.0000	47.80
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	482657	50.0000	45.82
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	188947	50.0000	48.72
92	Naphthalene	128	11.540	11.540	(1.195)	1211199	50.0000	46.07
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	466122	50.0000	45.41
146	Methyl acetate	43	2.236	2.236	(0.535)	269607	50.0000	47.93
138	Freon TF	101	1.921	1.921	(0.459)	245533	50.0000	41.86
141	Cyclohexane	56	4.121	4.121	(0.986)	340162	50.0000	40.96
142	Tetrahydrofuran	42	3.851	3.851	(0.921)	117209	100.000	95.99
147	Methylcyclohexane	55	5.381	5.381	(1.084)	704530	50.0000	46.51
135	1,4-Dioxane	88	5.602	5.602	(1.340)	74087	1000.00	931.19
132	n-Butanol	56	5.265	5.265	(1.259)	143573	1000.00	876.06(M)
131	Methyl Acrylate	55	3.694	3.694	(0.883)	290322	50.0000	46.94(M)
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	704530	50.0000	47.58
136	n-Hexane	57	2.772	2.772	(0.663)	282893	50.0000	48.41
139	Diethyl ether	59	1.763	1.763	(0.422)	267847	50.0000	48.48
148	Tert-butyl alcohol	59	2.438	2.438	(0.583)	745105	1000.00	987.31
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	441739	1000.00	1005.43
156	Diisopropyl ether	45	3.008	3.008	(0.719)	1100466	50.0000	48.81
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1226059	50.0000	47.68
167	Ethanol	45	1.707	1.707	(0.408)	75258	1000.00	1016.17
172	tert-Butyl formate	59	4.627	4.627	(1.107)	477735	100.000	76.38
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	715772	1000.00	793.64
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	1214281	50.0000	49.02(M)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	991360	50.0000	48.91
176	tert-Amyl alcohol	59	4.627	4.627	(1.107)	477735	1000.00	765.54
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	1477145	1000.00	738.12
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	534109	50.0000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	288154	50.0000	44.68
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	531346	50.0000	49.22
159	Propylene oxide	43	1.808	1.808	(0.433)	80421	100.000	79.60
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	155772	1000.00	943.68
162	Butyl acrylate	55	8.249	8.249	(1.076)	753228	50.0000	48.44
163	Butyl methacrylate	41	9.167	9.167	(0.949)	558625	50.0000	49.75
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	1468680	50.0000	49.78
182	Epichlorohydrin	57	6.097	6.097	(1.228)	111646	200.000	181.07
M 94	1,2-Dichloroethylene (total)	96				656987	100.000	95.47
M 95	Xylenes (total)	106				1641507	150.000	142.45
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	569808	50.0000	48.36
130	Ethyl Acetate	43	3.664	3.664	(0.876)	338578	50.0000	47.12
134	Cyclohexanone	55	8.642	8.642	(0.895)	322789	1000.00	915.14
185	Isoprene	39	1.775	1.775	(0.424)	107534	50.0000	41.26
188	Isopropyl acetate	43	4.680	4.680	(0.943)	960578	50.0000	47.17
187	n-Amyl acetate	43	8.451	8.451	(1.102)	645509	50.0000	45.79

189 n-Butyl acetate	43	7.210	7.210 (0.940)	532482	50.0000	48.63(H)
150 Allyl alcohol	57	2.772	2.772 (0.663)	282893	1000.00	967.48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.216	1.216	(0.291)	128302	200.000	203.38(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	785411	50.0000	47.27
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	667407	50.0000	53.10
202 Isobutylene	41	1.246	1.246	(0.298)	34523	50.0000	42.03(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	593990	50.0000	52.49

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\nahstws005\target\chem\voa6,i\x230811,b\x081108,d
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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7;
Purge Volume: 5.0
Column phase: DB624

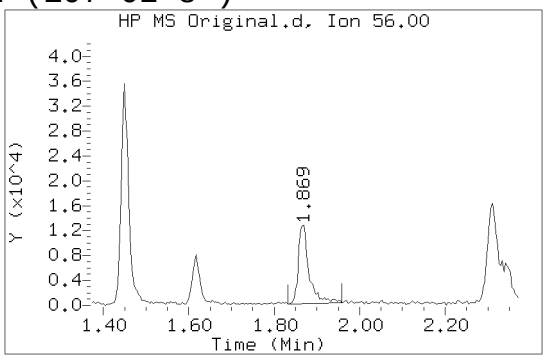
Instrument: voa6,i
Operator: PC
Column diameter: 0.18

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Inj Date : 11-AUG-2023 13:56
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LabSampID : VSTD050

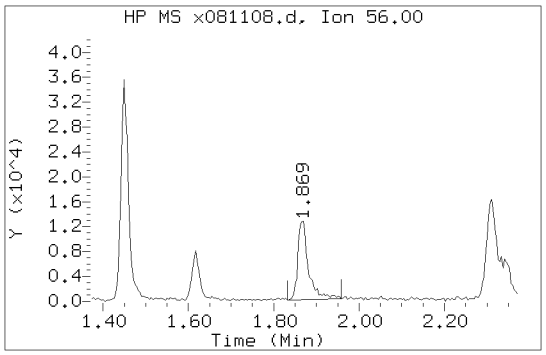
Acrolein (107-02-8)

Reason Code:

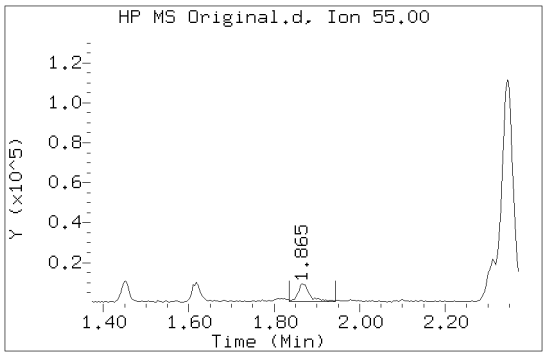
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12-Aug-2023
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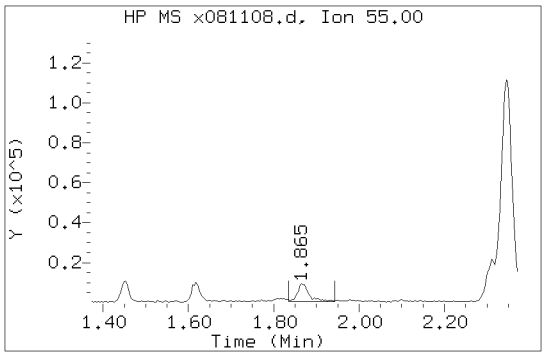
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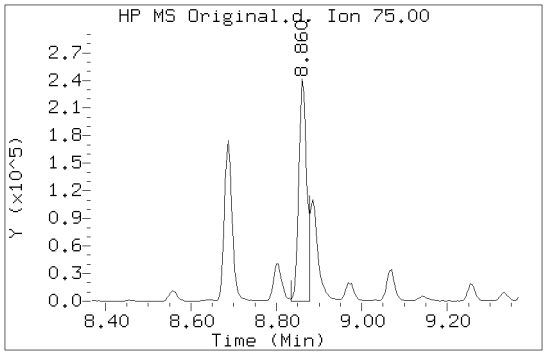
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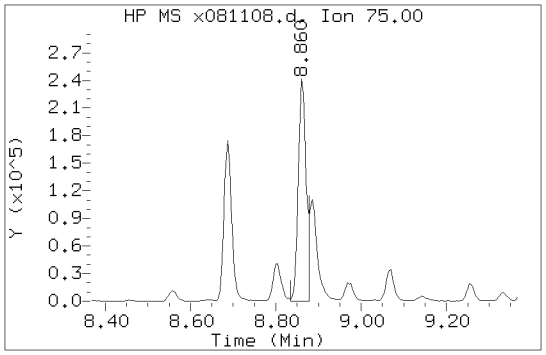
1,2,3-Trichloropropane (96-18-4)

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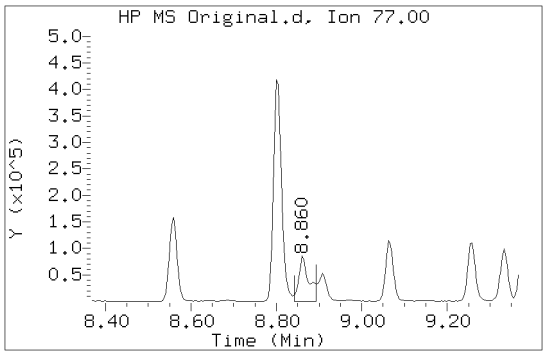
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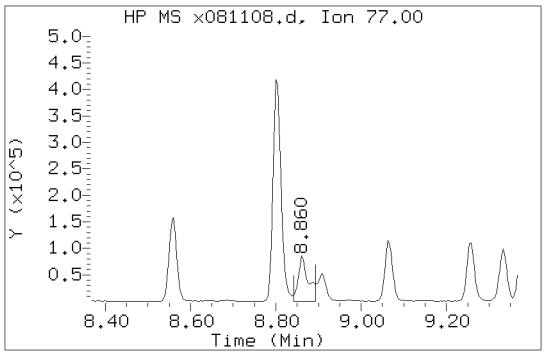
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23-Aug-2023
11:11



BEFORE
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23:25



AFTER
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23-Aug-2023
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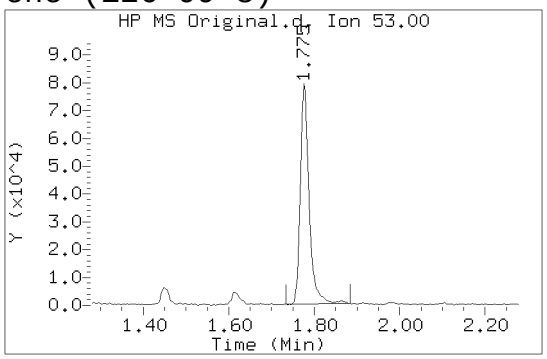


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LabSampID : VSTD050

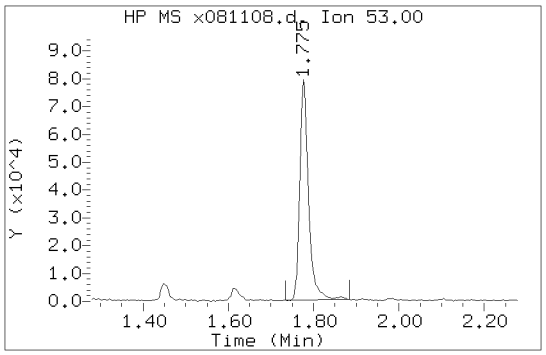
Chloroprene (126-99-8)

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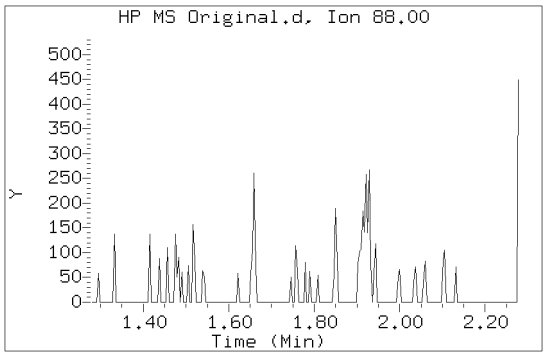
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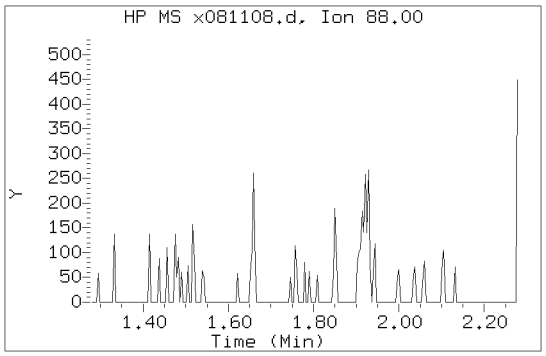
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BEFORE
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23:25



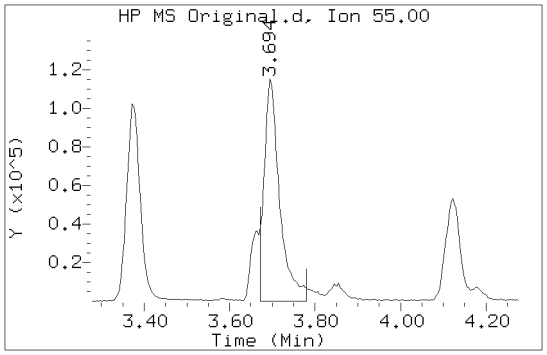
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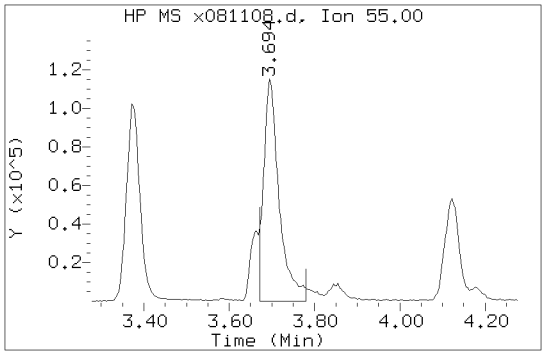
Methyl Acrylate (96-33-3)

Reason Code:

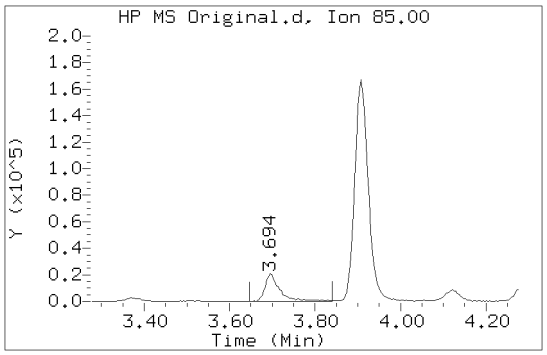
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12-Aug-2023
23:25



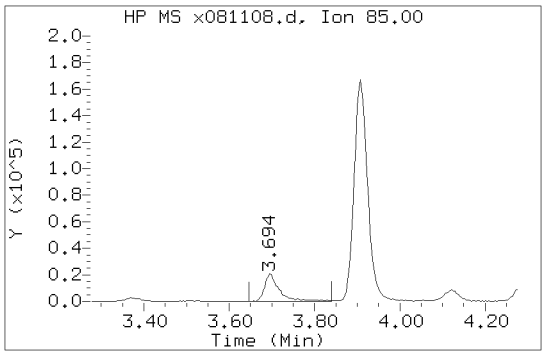
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11:11



BEFORE
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12-Aug-2023
23:25



AFTER
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HEIGHT
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23-Aug-2023
11:11

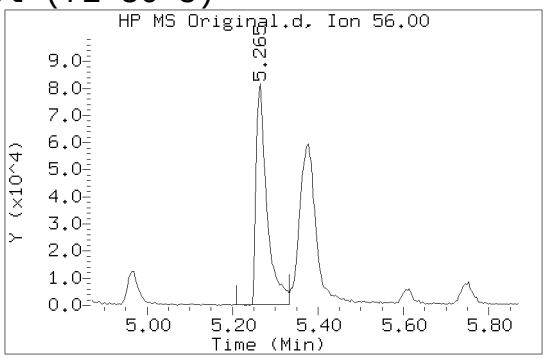


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InstruID : voa6.i
LabSampID : VSTD050

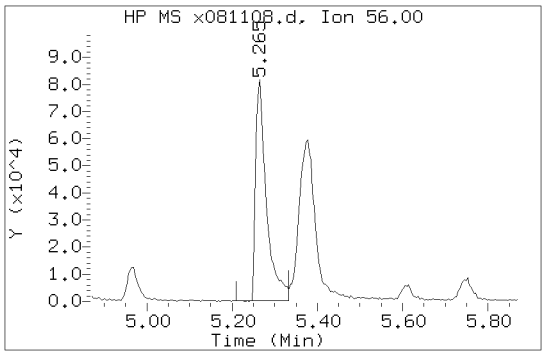
n-Butanol (71-36-3)

Reason Code:

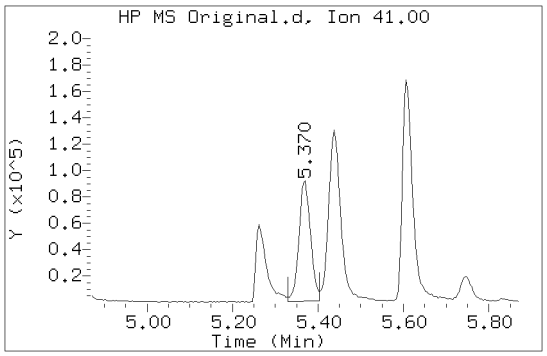
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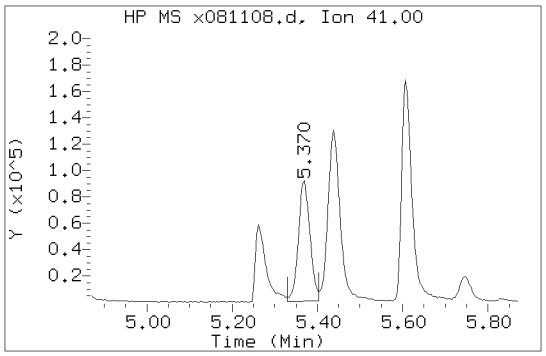
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BEFORE
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23:25



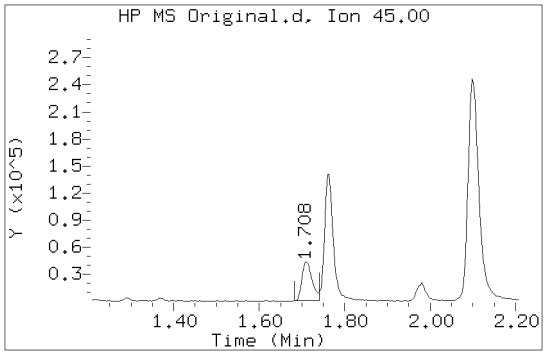
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23-Aug-2023
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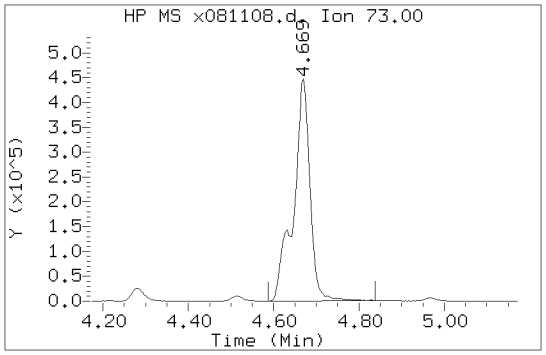
tert-Amyl methyl ether (974-05-08)

Reason Code:

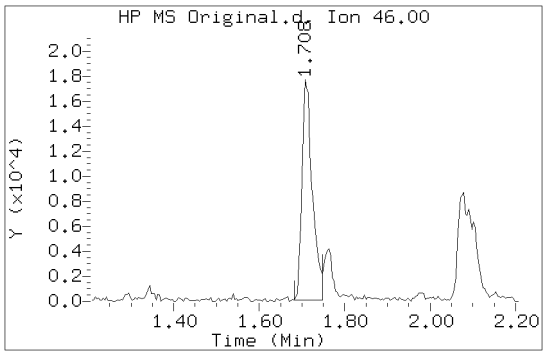
BEFORE
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12-Aug-2023
23:25



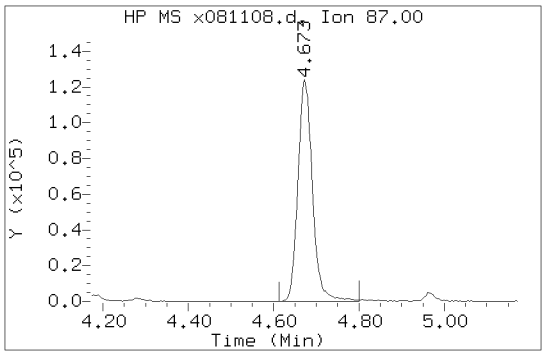
AFTER
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BEFORE
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AFTER
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23-Aug-2023
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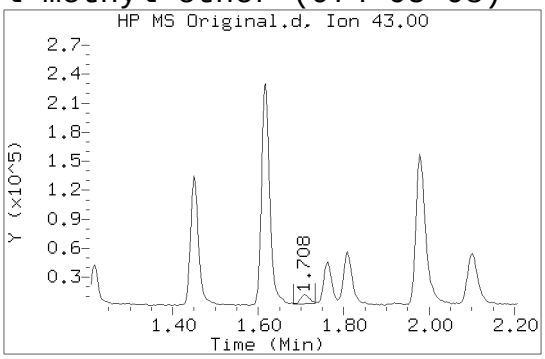
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Inj Date : 11-AUG-2023 13:56
InstruID : voa6.i
LabSampID : VSTD050

tert-Amyl methyl ether (974-05-08)

Reason Code:

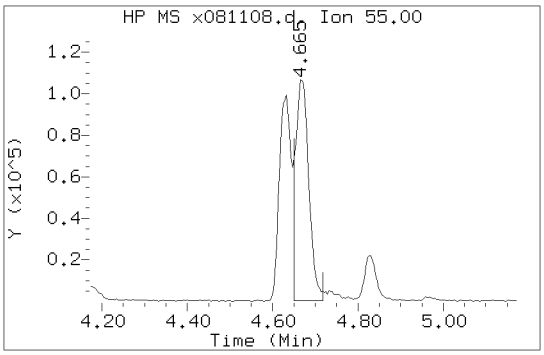
BEFORE

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12-Aug-2023
23:25



AFTER

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23-Aug-2023
11:11



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081109.D
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Inj Date : 11-AUG-2023 14:17
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 14:17 Cal File: X081109.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	640506	50.0000	
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	619342	100.000	104.73
3 Chloromethane	50	1.085	1.085	(0.260)	615114	100.000	98.69
4 Propionitrile	54	3.660	3.660	(0.875)	922962	1000.00	1034.73
5 Vinyl Chloride	62	1.149	1.149	(0.275)	792366	100.000	103.13
6 Bromomethane	94	1.343	1.343	(0.321)	402009	100.000	97.21
7 Chloroethane	64	1.407	1.407	(0.337)	487182	100.000	96.75
8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	1143221	100.000	104.55
9 Acrolein	56	1.865	1.865	(0.446)	42571	200.000	205.58(M)
10 Acetone	43	1.977	1.977	(0.473)	518775	200.000	214.49
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	621762	100.000	100.53
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	2032055	2000.00	2023.96
13 Acetonitrile	39	2.202	2.202	(0.527)	956437	1000.00	968.26
14 Allyl Chloride	41	2.202	2.202	(0.527)	1838118	100.000	94.20
15 Iodomethane	142	2.033	2.033	(0.486)	1612228	200.000	206.83
16 Acrylonitrile	53	2.536	2.536	(0.606)	573307	200.000	192.42
17 Methylene Chloride	84	2.307	2.307	(0.552)	703194	100.000	90.66
18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	2072249	100.000	93.93
19 Carbon Disulfide	76	2.074	2.074	(0.496)	3782366	200.000	206.06
20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	694934	100.000	96.69
21 Vinyl Acetate	43	3.000	3.000	(0.718)	4323501	200.000	203.36

22 1,1-Dichloroethane	63	2.925	2.925 (0.700)	1279476	100.000	94.52
23 Chloroprene	53	1.775	1.775 (0.424)	279143	100.000	103.02

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081109.D Page 2
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			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	3.581	3.581	(0.857)	533010	200.000	224.81(H)
	25	Methacrylonitrile	41	3.821	3.821	(0.914)	650336	100.000	101.80(a)
	26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	949589	100.000	104.52
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	700204	100.000	101.44
	28	Chloroform	83	3.908	3.908	(0.935)	1177710	100.000	99.27
	29	Bromochloromethane	128	3.795	3.795	(0.908)	383542	100.000	97.75
$	30	Dibromofluoromethane	113	4.099	4.099	(0.980)	623623	100.000	107.10
	31	1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	1017489	100.000	106.82
	32	1,1-Dichloropropene	75	4.279	4.279	(0.861)	871919	100.000	108.47(H)
	33	1,2-Dichloroethane	62	4.556	4.556	(0.917)	944663	100.000	97.27
	34	Carbon Tetrachloride	117	4.264	4.264	(0.858)	885624	100.000	104.37(H)
$	35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	683505	100.000	105.68
*	36	1,4-Difluorobenzene	114	4.968	4.968	(1.000)	1021527	50.0000	
	37	Benzene	78	4.511	4.511	(0.908)	2519479	100.000	100.13
	38	Trichloroethene	130	5.205	5.205	(1.048)	731094	100.000	101.10
	39	Bromodichloromethane	83	5.726	5.726	(1.152)	922185	100.000	98.40
	40	Methyl Methacrylate	41	5.606	5.606	(1.341)	608078	100.000	103.18
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	484488	200.000	202.09
	42	1,2-Dichloropropane	63	5.437	5.437	(1.094)	698386	100.000	98.43
	43	2-Nitropropane	43	5.966	5.966	(1.427)	231004	100.000	98.19
	44	Dibromomethane	93	5.553	5.553	(1.118)	455344	100.000	93.91
	45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	1413537	200.000	196.71
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.238)	1105204	100.000	103.06
*	47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	1001756	50.0000	
$	48	Toluene-d8	98	6.385	6.385	(0.833)	2278710	100.000	96.65
	49	Ethyl Methacrylate	69	6.786	6.786	(1.366)	947621	100.000	101.25(H)
	50	Toluene	91	6.445	6.445	(0.841)	2797148	100.000	100.20
	51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.344)	937127	100.000	104.12
	52	2-Hexanone	43	7.086	7.086	(0.924)	957766	200.000	198.56
	53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	546052	100.000	98.13
	54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	1090432	100.000	95.86
	55	Dibromochloromethane	129	7.173	7.173	(0.935)	821062	100.000	102.24
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	624399	100.000	107.62
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	664741	100.000	97.79
	58	1-Chlorohexane	55	7.694	7.694	(1.548)	641164	100.000	108.48
	59	Chlorobenzene	112	7.690	7.690	(1.003)	1909593	100.000	99.28
	60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	762918	100.000	102.68
	61	Ethylbenzene	106	7.799	7.799	(1.017)	979780	100.000	103.15
	62	m,p-Xylenes	106	7.900	7.900	(1.030)	2516682	200.000	207.12
	63	o-Xylene	106	8.237	8.237	(1.074)	1210239	100.000	101.07
	64	Styrene	104	8.256	8.256	(1.077)	2100825	100.000	105.50
	66	Bromoform	173	8.406	8.406	(1.096)	593398	100.000	109.52
	67	Isopropylbenzene	105	8.560	8.560	(1.116)	3137727	100.000	105.45
	68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	923133	100.000	93.79
$	69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1004363	100.000	101.27
*	70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	604590	50.0000	
	71	1,2,3-Trichloropropane	75	8.859	8.859	(0.917)	670063	100.000	92.58(M)
	72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	253731	100.000	100.45(H)
	73	n-Propylbenzene	91	8.908	8.908	(0.922)	3787376	100.000	105.94
	74	Bromobenzene	156	8.803	8.803	(0.912)	935104	100.000	96.76
	75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	2731821	100.000	104.53
	76	2-Chlorotoluene	91	8.972	8.972	(0.929)	2211513	100.000	96.60

77	4-Chlorotoluene	91	9.066	9.066 (0.939)	2657540	100.000	100.89
78	tert-Butylbenzene	119	9.332	9.332 (0.966)	2375406	100.000	106.09

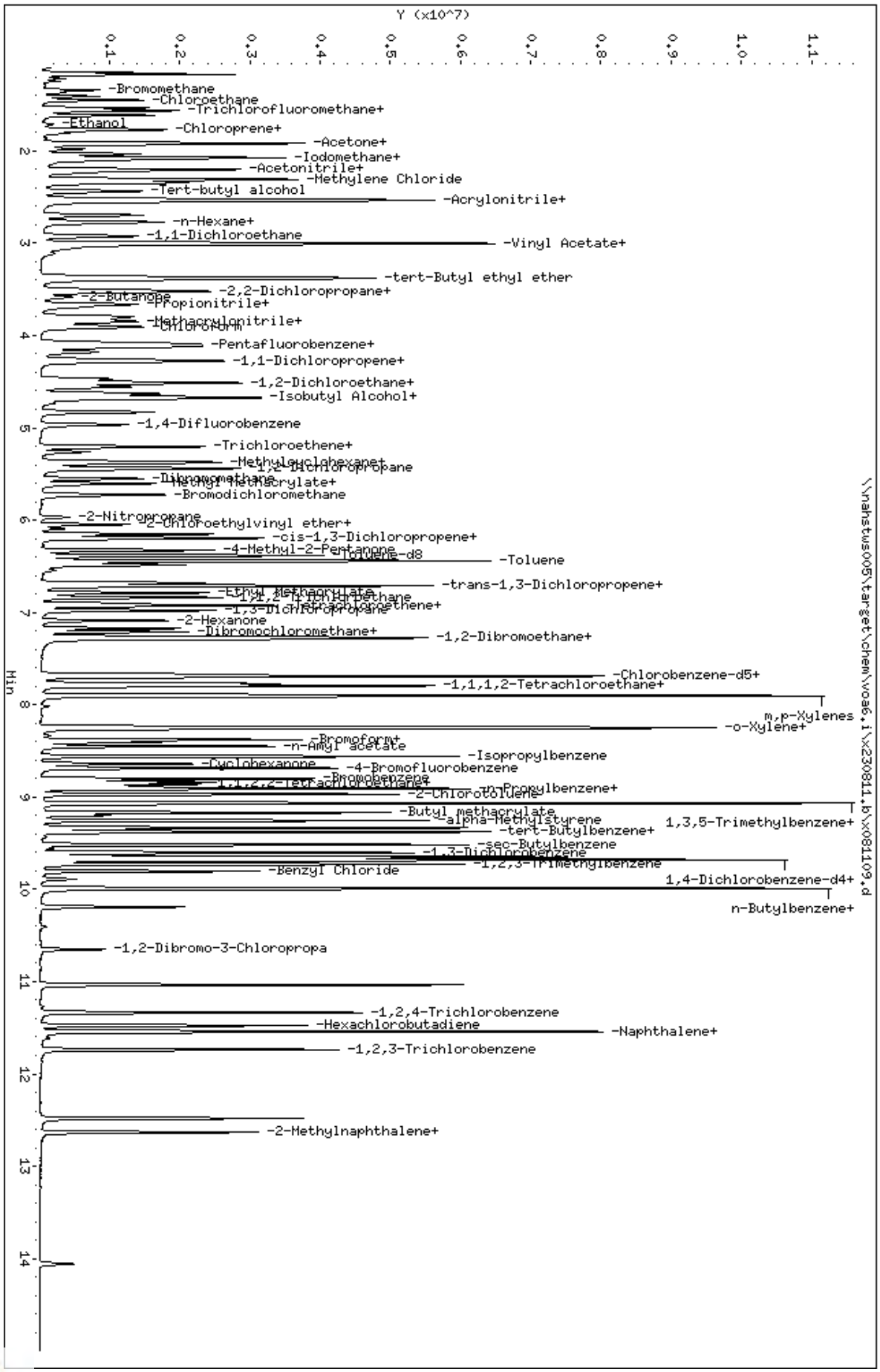
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	2757148	100.000	102.45
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	3405673	100.000	110.95
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	3028640	100.000	109.13
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1735850	100.000	100.86
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	1833747	100.000	99.48
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1725503	100.000	120.33
87	n-Butylbenzene	91	9.988	9.988	(1.034)	2801951	100.000	101.53
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1749811	100.000	100.72
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	172155	100.000	103.43
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1231235	100.000	107.10
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	585400	100.000	100.10
92	Naphthalene	128	11.540	11.540	(1.195)	2873022	100.000	100.12
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	1130429	100.000	100.90
146	Methyl acetate	43	2.236	2.236	(0.535)	552039	100.000	95.91
138	Freon TF	101	1.921	1.921	(0.459)	646829	100.000	105.98
141	Cyclohexane	56	4.121	4.121	(0.986)	918146	100.000	105.04
142	Tetrahydrofuran	42	3.848	3.848	(0.920)	238972	200.000	191.26
147	Methylcyclohexane	55	5.381	5.381	(1.083)	1626175	100.000	105.96(A)
135	1,4-Dioxane	88	5.602	5.602	(1.340)	160962	2000.00	1977.09
132	n-Butanol	56	5.261	5.261	(1.258)	333572	2000.00	1902.85(M)
131	Methyl Acrylate	55	3.690	3.690	(0.883)	609738	100.000	96.35(M)
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	1626175	100.000	107.33
136	n-Hexane	57	2.772	2.772	(0.663)	828407	100.000	100.12
139	Diethyl ether	59	1.763	1.763	(0.422)	534429	100.000	94.53
148	Tert-butyl alcohol	59	2.438	2.438	(0.583)	1555693	2000.00	2028.00
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	902720	2000.00	2020.78
156	Diisopropyl ether	45	3.004	3.004	(0.719)	2276546	100.000	98.68
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	2730695	100.000	97.30
167	Ethanol	45	1.711	1.711	(0.409)	156245	2000.00	2087.66
172	tert-Butyl formate	59	4.631	4.631	(1.108)	1087048	200.000	169.85
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1605399	2000.00	1696.19
174	tert-Amyl methyl ether	73	4.668	4.668	(1.117)	2585317	100.000	104.04(M)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	2071260	100.000	99.87
176	tert-Amyl alcohol	59	4.631	4.631	(1.108)	1087048	2000.00	1702.30
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.351)	3336337	2000.00	1645.38
180	1-Methylnaphthalene	142	12.631	12.631	(1.308)	1249884	100.000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	674061	100.000	102.14
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	1103529	100.000	99.89
159	Propylene oxide	43	1.808	1.808	(0.433)	147717	200.000	142.89
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	359841	2000.00	2077.25
162	Butyl acrylate	55	8.248	8.248	(1.076)	1671356	100.000	102.43
163	Butyl methacrylate	41	9.167	9.167	(0.949)	1153168	100.000	94.10
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	3267261	100.000	99.45
182	Epichlorohydrin	57	6.093	6.093	(1.226)	235732	400.000	377.32
M 94	1,2-Dichloroethylene (total)	96				1395138	200.000	198.14
M 95	Xylenes (total)	106				3726921	300.000	308.19
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1341041	100.000	104.28
130	Ethyl Acetate	43	3.660	3.660	(0.875)	720887	100.000	98.05
134	Cyclohexanone	55	8.642	8.642	(0.895)	718649	2000.00	1866.58
185	Isoprene	39	1.775	1.775	(0.424)	247640	100.000	92.87
188	Isopropyl acetate	43	4.680	4.680	(0.942)	2034972	100.000	98.62
187	n-Amyl acetate	43	8.451	8.451	(1.102)	1465427	100.000	99.07

189 n-Butyl acetate	43	7.210	7.210 (0.940)	1179762	100.000	102.67(H)
150 Allyl alcohol	57	2.772	2.772 (0.663)	828407	2000.00	2002.64

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.216	1.216	(0.291)	249925	400.000	394.98(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1755774	100.000	100.69
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1435957	100.000	108.87
202 Isobutylene	41	1.246	1.246	(0.298)	77653	100.000	92.39(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	1375981	100.000	111.40

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.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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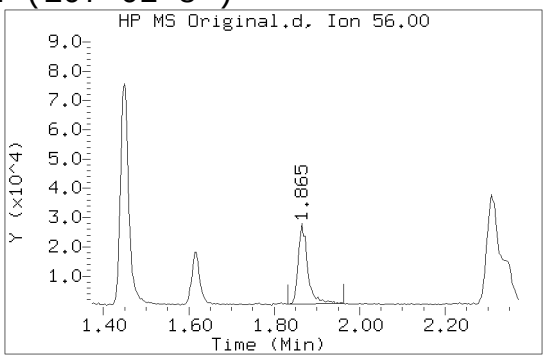
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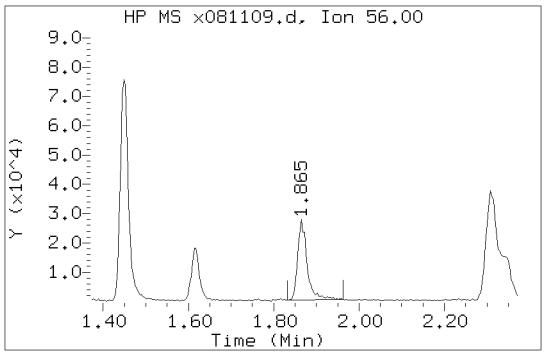
Acrolein (107-02-8)

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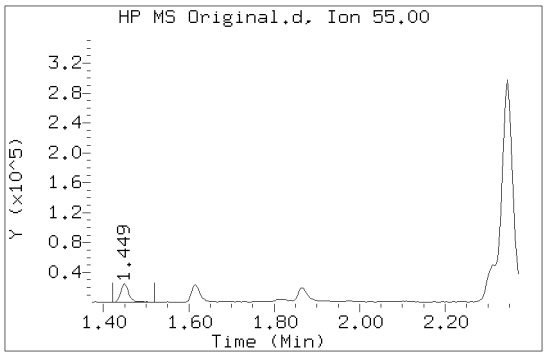
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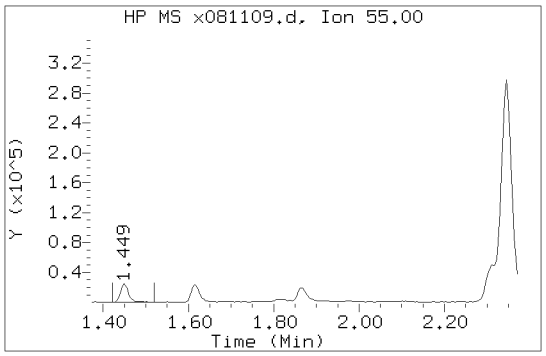
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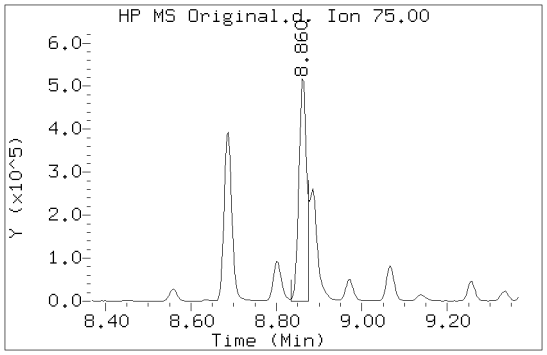
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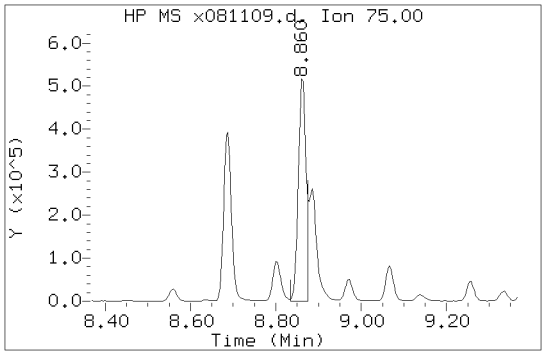
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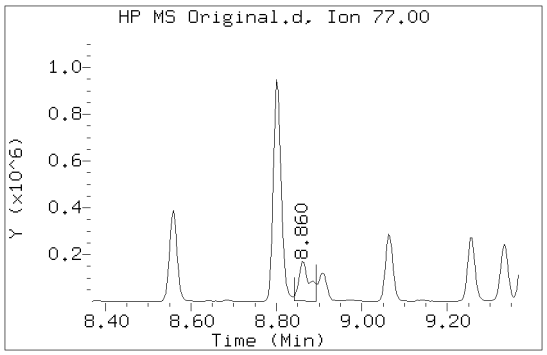
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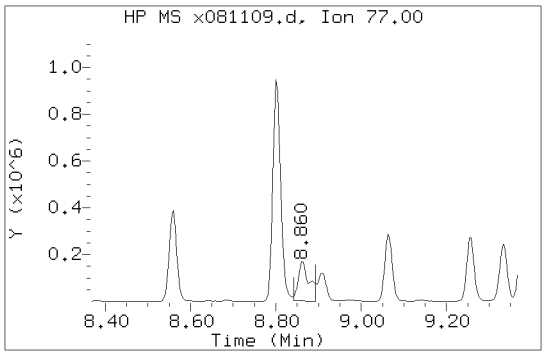
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BEFORE
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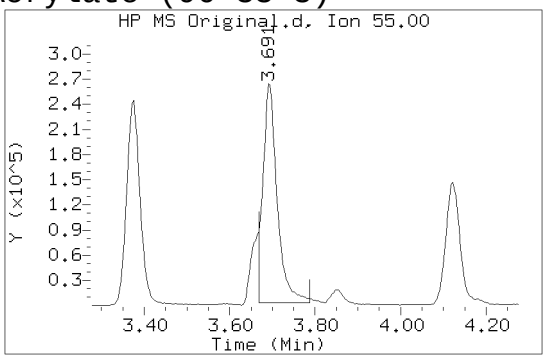


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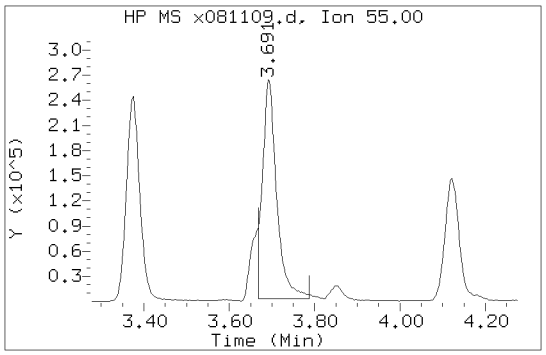
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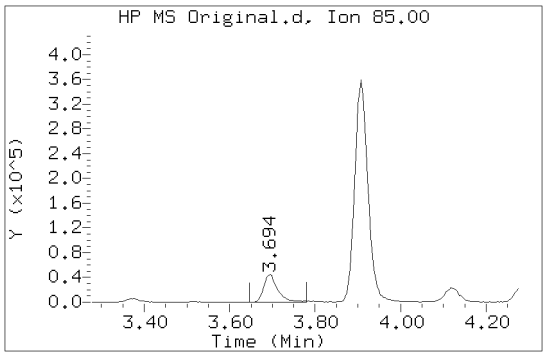
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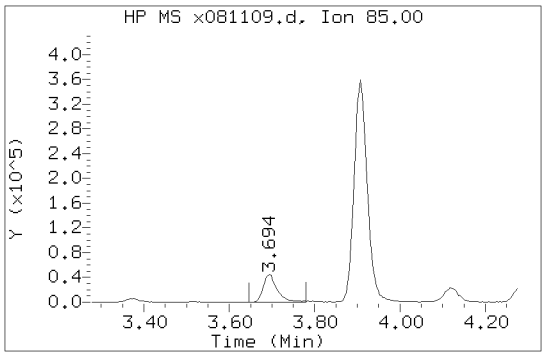
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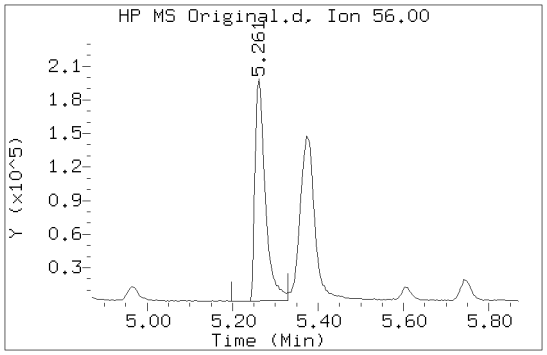
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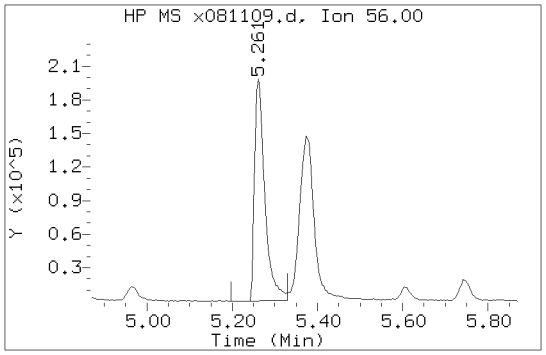
n-Butanol (71-36-3)

Reason Code:

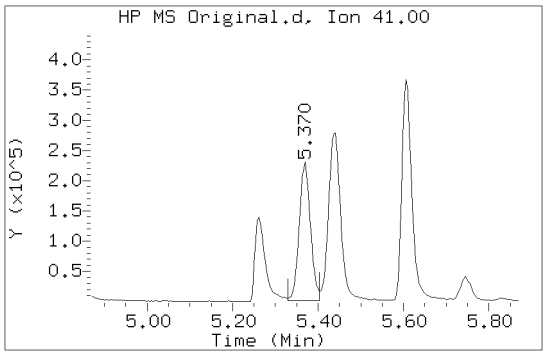
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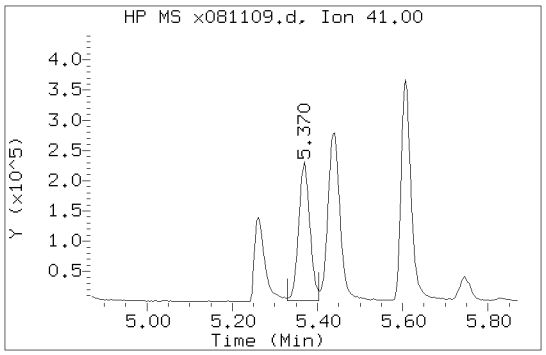
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AFTER
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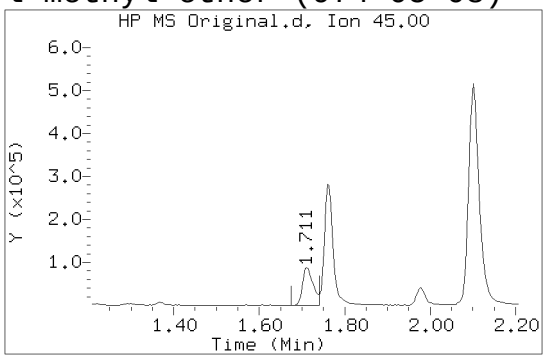


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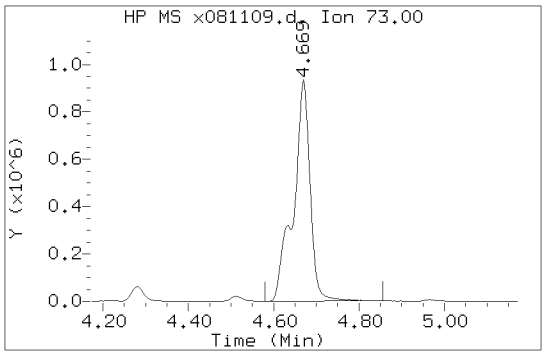
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Reason Code:

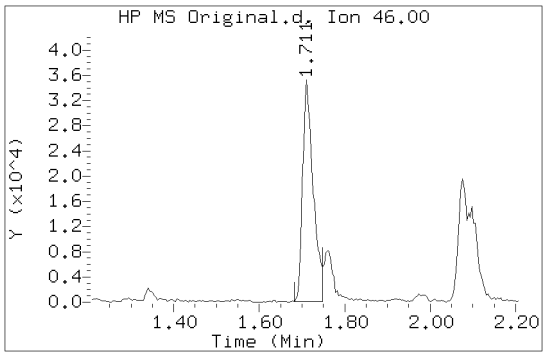
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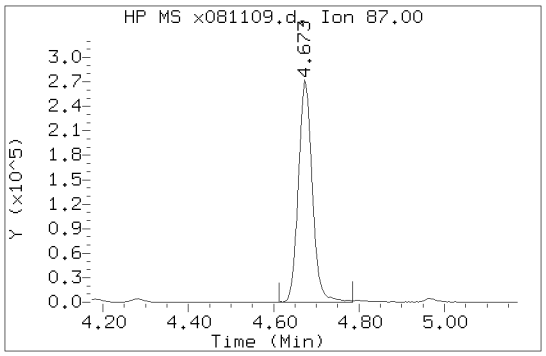
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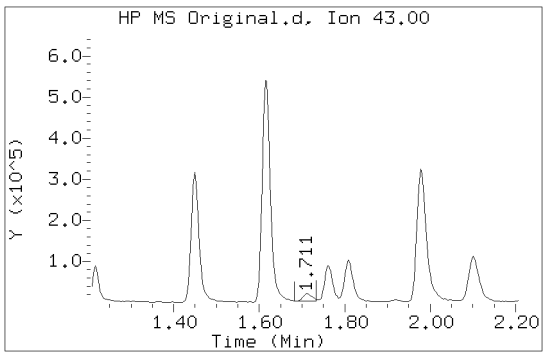
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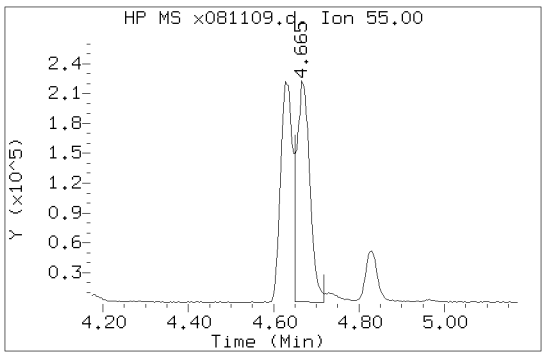
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BEFORE
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AFTER
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081110.D Page 1
Report Date: 23-Aug-2023 11:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081110.D
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Inj Date : 11-AUG-2023 14:37
Operator : PC Inst ID: voa6.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V6;WATER;0;1;
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Cal Date : 11-AUG-2023 14:17 Cal File: X081109.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	682557	50.0000	
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	959873	150.000	152.01
3 Chloromethane	50	1.085	1.085	(0.260)	1033366	150.000	155.58
4 Propionitrile	54	3.660	3.660	(0.875)	1468203	1500.00	1544.59
5 Vinyl Chloride	62	1.149	1.149	(0.275)	1233792	150.000	150.70
6 Bromomethane	94	1.340	1.340	(0.320)	666095	150.000	151.14
7 Chloroethane	64	1.403	1.403	(0.336)	735302	150.000	137.03
8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	1752801	150.000	150.43
9 Acrolein	56	1.865	1.865	(0.446)	67360	300.000	306.58(M)
10 Acetone	43	1.977	1.977	(0.473)	740284	300.000	288.78
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	951773	150.000	144.41
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	3257307	3000.00	3044.45
13 Acetonitrile	39	2.202	2.202	(0.527)	1486538	1500.00	1412.20
14 Allyl Chloride	41	2.202	2.202	(0.527)	2841635	150.000	136.65
15 Iodomethane	142	2.033	2.033	(0.486)	2614120	300.000	300.47
16 Acrylonitrile	53	2.536	2.536	(0.606)	895015	300.000	281.89
17 Methylene Chloride	84	2.307	2.307	(0.552)	1057034	150.000	127.89
18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	3266231	150.000	138.93
19 Carbon Disulfide	76	2.074	2.074	(0.496)	5854691	300.000	299.32
20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	1070098	150.000	139.71

21 Vinyl Acetate	43	3.000	3.000 (0.718)	6781651	300.000	299.33
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1933143	150.000	134.02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.424)	431981	150.000	149.60
	24 2-Butanone	43	3.581	3.581	(0.857)	818491	300.000	323.95(H)
	25 Methacrylonitrile	41	3.821	3.821	(0.914)	1028369	150.000	151.06(a)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	1464683	150.000	151.29
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	1081309	150.000	147.01
	28 Chloroform	83	3.908	3.908	(0.935)	1802396	150.000	142.57
	29 Bromochloromethane	128	3.795	3.795	(0.908)	589388	150.000	140.95
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	899883	150.000	145.32
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	1578919	150.000	155.56
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	1351358	150.000	162.53(H)
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	1466021	150.000	145.95
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	1397869	150.000	159.26(H)
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	1002392	150.000	145.86
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1056642	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	3908377	150.000	150.17
	38 Trichloroethene	130	5.205	5.205	(1.048)	1148907	150.000	153.60
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	1422892	150.000	146.79
	40 Methyl Methacrylate	41	5.606	5.606	(1.341)	959369	150.000	152.76
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	760740	300.000	306.78
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	1090098	150.000	148.54
	43 2-Nitropropane	43	5.969	5.969	(1.428)	366113	150.000	146.03
	44 Dibromomethane	93	5.549	5.549	(1.118)	707705	150.000	141.11
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	2231658	300.000	300.25
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1732908	150.000	156.23
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	1036166	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	3265638	150.000	133.91
	49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	1511594	150.000	156.14(H)
	50 Toluene	91	6.445	6.445	(0.841)	4375788	150.000	151.55
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1478264	150.000	158.79
	52 2-Hexanone	43	7.086	7.086	(0.924)	1506153	300.000	301.88
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	848391	150.000	147.41
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	1713601	150.000	145.65
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	1287377	150.000	154.99
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	984117	150.000	163.99
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	1046609	150.000	148.86
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	1018816	150.000	166.64
	59 Chlorobenzene	112	7.690	7.690	(1.003)	3004501	150.000	151.02
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	1197588	150.000	155.84
	61 Ethylbenzene	106	7.799	7.799	(1.017)	1517668	150.000	154.47
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	3983320	300.000	316.94
	63 o-Xylene	106	8.237	8.237	(1.074)	1909743	150.000	154.19
	64 Styrene	104	8.256	8.256	(1.077)	3359185	150.000	163.10
	66 Bromoform	173	8.406	8.406	(1.096)	961597	150.000	171.58
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	4996090	150.000	162.33
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1494265	150.000	143.61
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1512449	150.000	147.32
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	639168	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	1156800	150.000	151.18(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	414511	150.000	158.66(H)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	6042746	150.000	159.89
	74 Bromobenzene	156	8.803	8.803	(0.912)	1487827	150.000	145.63
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	4493957	150.000	162.66

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	3514835	150.000	145.23
77	4-Chlorotoluene	91	9.066	9.066 (0.939)	4275271	150.000	153.53

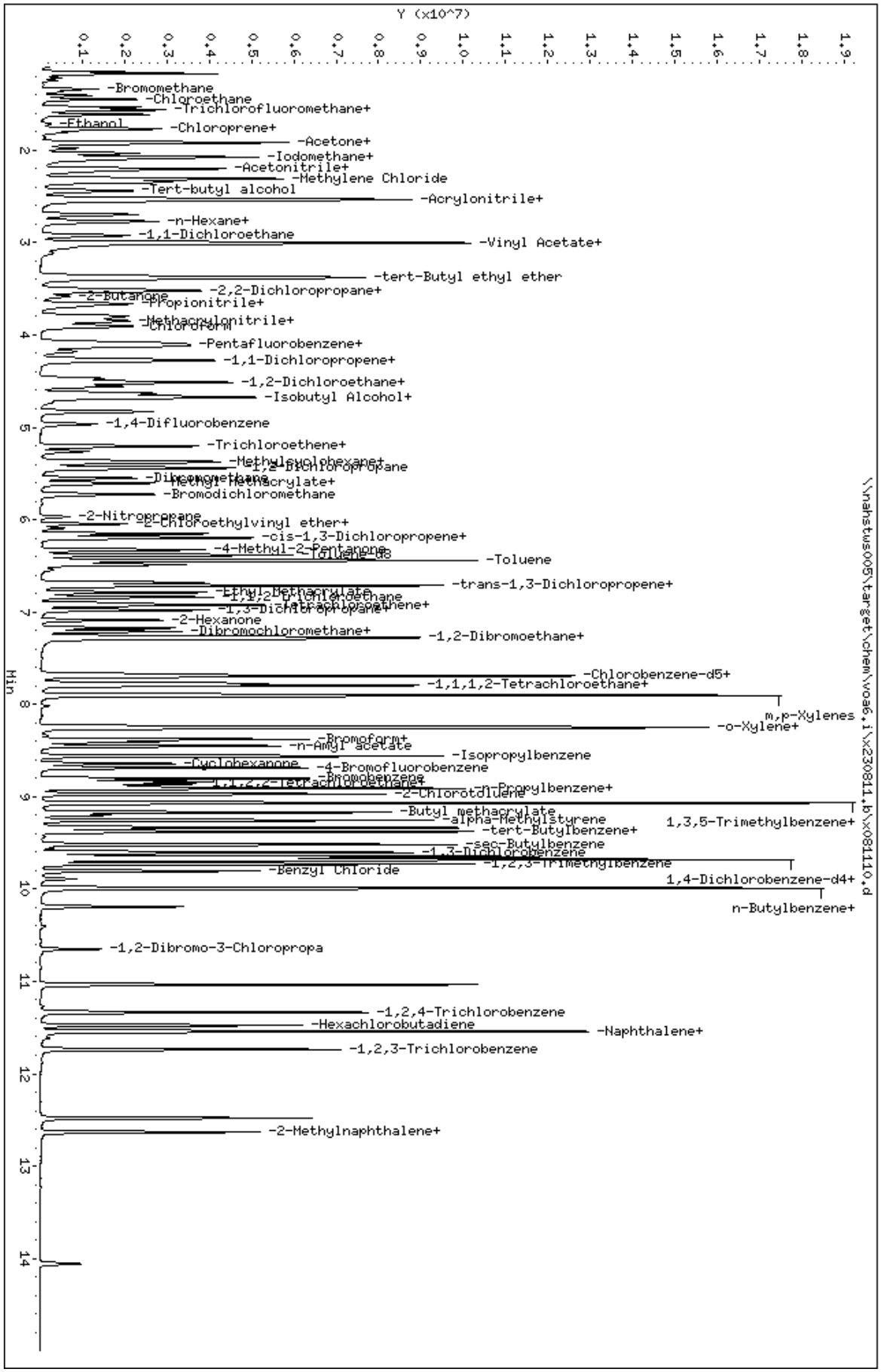
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.967)	3846046	150.000	162.48
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	4471143	150.000	157.15
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	5518096	150.000	170.05
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	4934529	150.000	168.19
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	2786963	150.000	153.17
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	2958090	150.000	151.80
86	Benzyl Chloride	91	9.804	9.804	(1.279)	2836865	150.000	191.27
87	n-Butylbenzene	91	9.992	9.992	(1.035)	4582820	150.000	155.98
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	2797744	150.000	152.33
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	274172	150.000	155.81
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	2015081	150.000	165.80
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	980720	150.000	102.28
92	Naphthalene	128	11.540	11.540	(1.195)	4621623	150.000	152.35
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	1834293	150.000	154.87
146	Methyl acetate	43	2.232	2.232	(0.534)	831062	150.000	135.49
138	Freon TF	101	1.921	1.921	(0.459)	1017540	150.000	155.92
141	Cyclohexane	56	4.121	4.121	(0.986)	1454384	150.000	155.24
142	Tetrahydrofuran	42	3.855	3.855	(0.922)	378357	300.000	284.16
147	Methylcyclohexane	55	5.381	5.381	(1.084)	2620423	150.000	165.07(A)
135	1,4-Dioxane	88	5.602	5.602	(1.340)	255690	3000.00	2947.15
132	n-Butanol	56	5.261	5.261	(1.258)	550912	3000.00	2911.71(M)
131	Methyl Acrylate	55	3.690	3.690	(0.883)	959104	150.000	142.23(M)
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	2620423	150.000	162.30
136	n-Hexane	57	2.772	2.772	(0.663)	1302336	150.000	104.64
139	Diethyl ether	59	1.760	1.760	(0.421)	835572	150.000	138.69
148	Tert-butyl alcohol	59	2.438	2.438	(0.583)	2402568	3000.00	2944.86
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	1400869	3000.00	2948.60
156	Diisopropyl ether	45	3.004	3.004	(0.719)	3528580	150.000	143.53
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	4504971	150.000	151.84
167	Ethanol	45	1.715	1.715	(0.410)	233477	3000.00	2937.54
172	tert-Butyl formate	59	4.631	4.631	(1.108)	1770077	300.000	259.53(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	2650834	3000.00	2707.74
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	4163456	150.000	160.73
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	3316388	150.000	150.06
176	tert-Amyl alcohol	59	4.631	4.631	(1.108)	1770077	3000.00	2601.15
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	5656224	3000.00	2696.79
180	1-Methylnaphthalene	142	12.631	12.631	(1.308)	2106136	150.000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	1049812	150.000	149.29
152	Amyl alcohol	42	6.978	6.978	(0.910)	67582	3000.00	787.93
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	1708397	150.000	145.12
159	Propylene oxide	43	1.808	1.808	(0.433)	236658	300.000	214.83
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	607296	3000.00	3389.32
162	Butyl acrylate	55	8.248	8.248	(1.076)	2811097	150.000	166.56
163	Butyl methacrylate	41	9.167	9.167	(0.949)	1943371	150.000	150.00
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	5365427	150.000	150.98
182	Epichlorohydrin	57	6.093	6.093	(1.227)	379989	600.000	588.01
M 94	1,2-Dichloroethylene (total)	96				2151407	300.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	2162289	150.000	159.04
130	Ethyl Acetate	43	3.660	3.660	(0.875)	1105978	150.000	141.16
134	Cyclohexanone	55	8.642	8.642	(0.895)	1021802	3000.00	2510.40
185	Isoprene	39	1.775	1.775	(0.424)	382366	150.000	134.57
188	Isopropyl acetate	43	4.680	4.680	(0.943)	3257307	150.000	152.62

187 n-Amyl acetate	43	8.451	8.451 (1.102)	2430781	150.000	158.87
189 n-Butyl acetate	43	7.210	7.210 (0.940)	1860831	150.000	156.57(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.663)	1302336	3000.00	2098.45
194 Acetaldehyde	44	1.216	1.216	(0.291)	348100	600.000	518.89(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	2955760	150.000	163.89
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	2323556	150.000	170.32
202 Isobutylene	41	1.246	1.246	(0.298)	129122	150.000	144.17(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	2250475	150.000	172.35

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.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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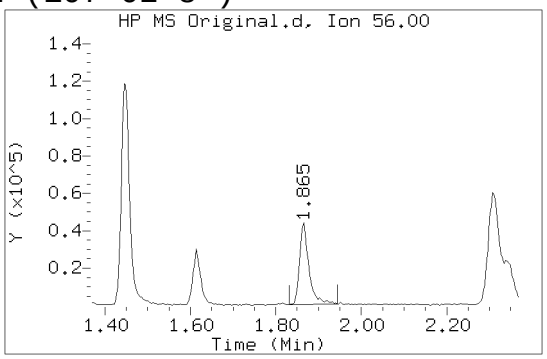
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Operator: PC
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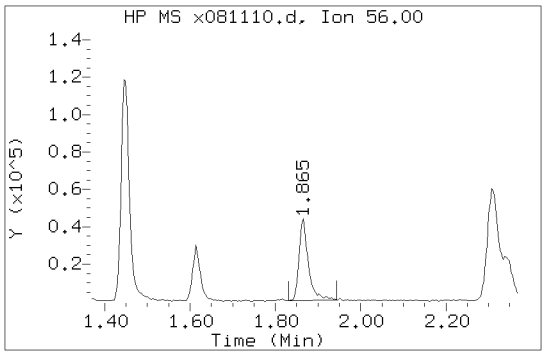
Acrolein (107-02-8)

Reason Code:

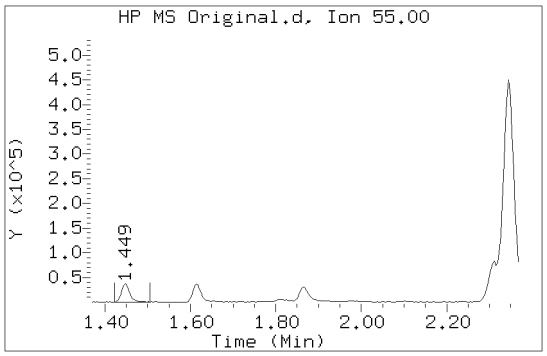
BEFORE
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HEIGHT
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12-Aug-2023
22:49



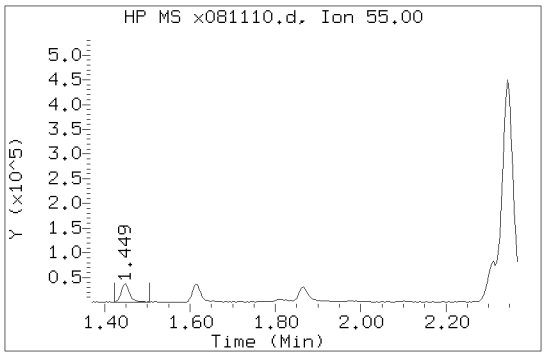
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12-Aug-2023
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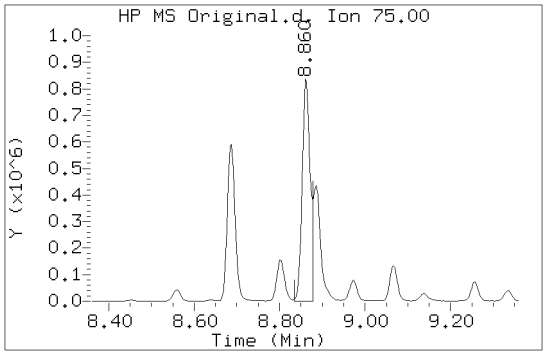
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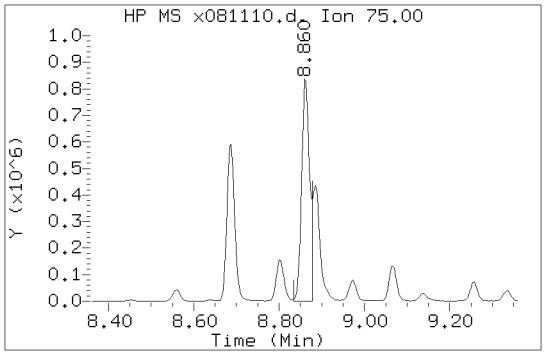
1,2,3-Trichloropropane (96-18-4)

Reason Code:

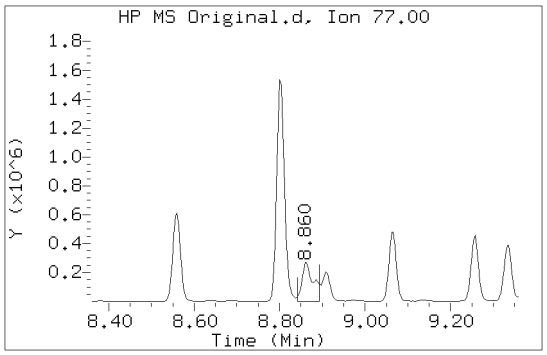
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12-Aug-2023
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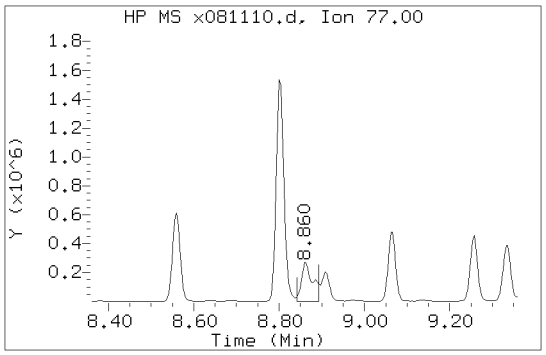
AFTER
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HEIGHT
836655
12-Aug-2023
22:49



BEFORE
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77
AREA
506119
HEIGHT
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12-Aug-2023
22:49



AFTER
MASS
77
AREA
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HEIGHT
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12-Aug-2023
22:49

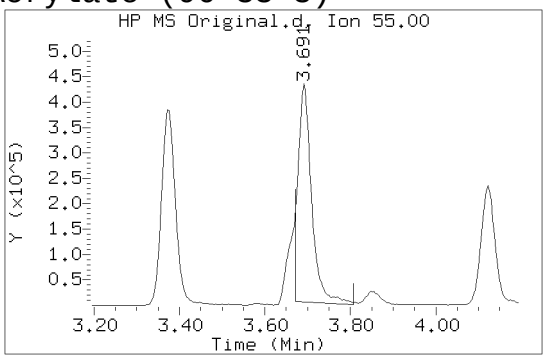


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Inj Date : 11-AUG-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

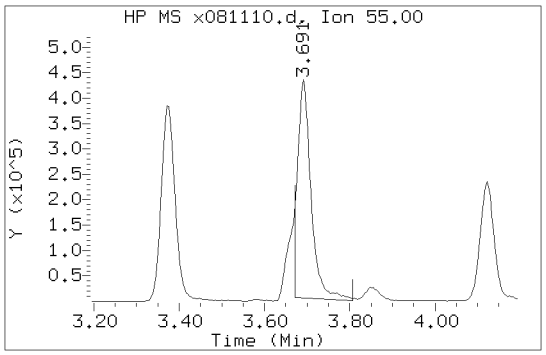
Methyl Acrylate (96-33-3)

Reason Code:

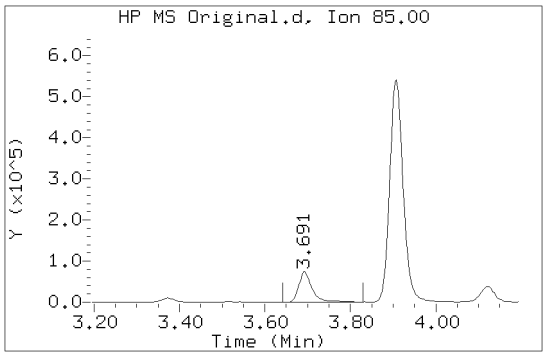
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HEIGHT
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12-Aug-2023
22:49



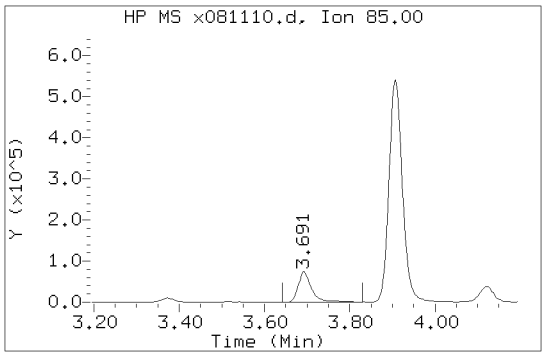
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22:49



BEFORE
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12-Aug-2023
22:49



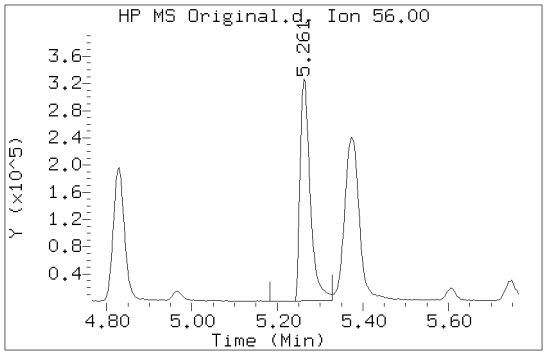
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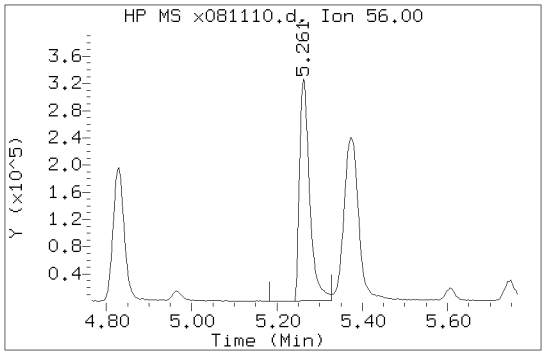
n-Butanol (71-36-3)

Reason Code:

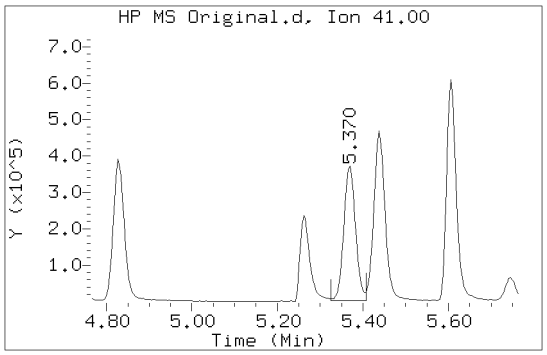
BEFORE
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HEIGHT
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12-Aug-2023
22:49



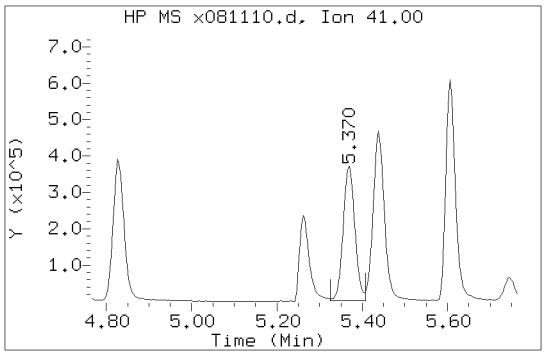
AFTER
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12-Aug-2023
22:49



BEFORE
MASS
41
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709301
HEIGHT
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12-Aug-2023
22:49



AFTER
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12-Aug-2023
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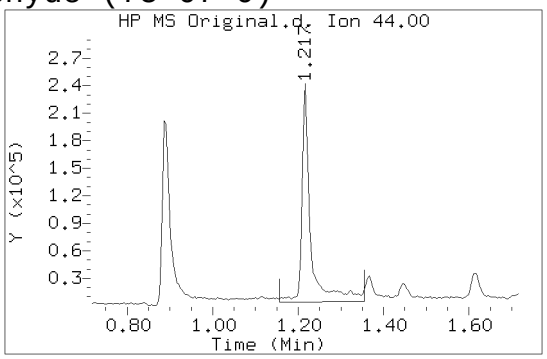


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Inj Date : 11-AUG-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

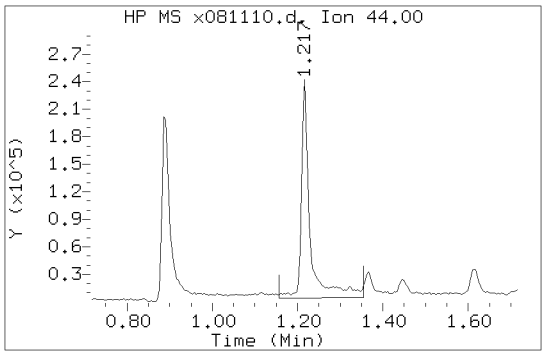
Acetaldehyde (75-07-0)

Reason Code:

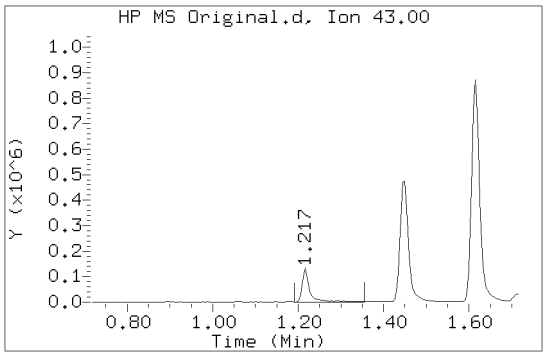
BEFORE
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12-Aug-2023
22:49



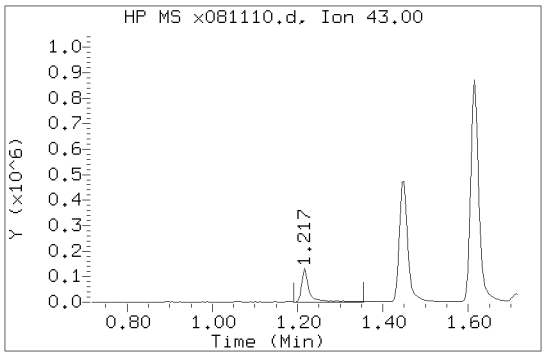
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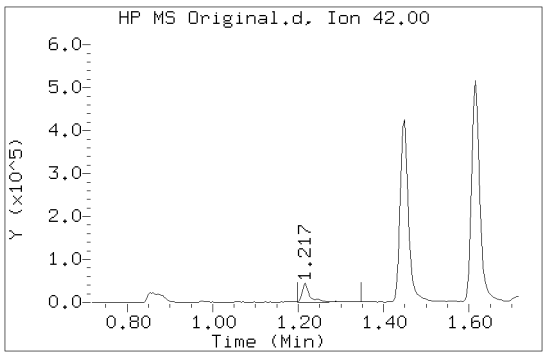
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12-Aug-2023
22:49



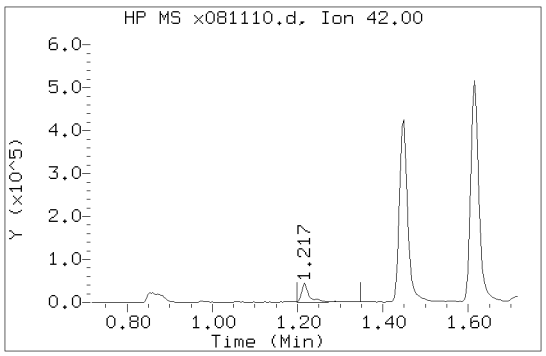
AFTER
MASS
43
AREA
163195
HEIGHT
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12-Aug-2023
22:49



BEFORE
MASS
42
AREA
56809
HEIGHT
43800
12-Aug-2023
22:49



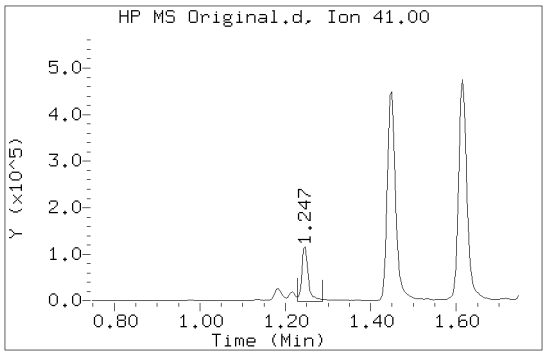
AFTER
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12-Aug-2023
22:49



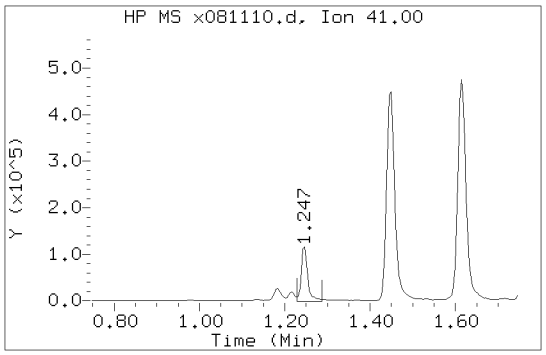
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
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129122
HEIGHT
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12-Aug-2023
22:49



AFTER
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129122
HEIGHT
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12-Aug-2023
22:49

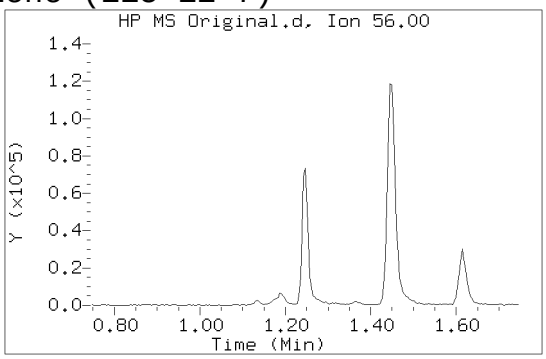


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081110.d
Inj Date : 11-AUG-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

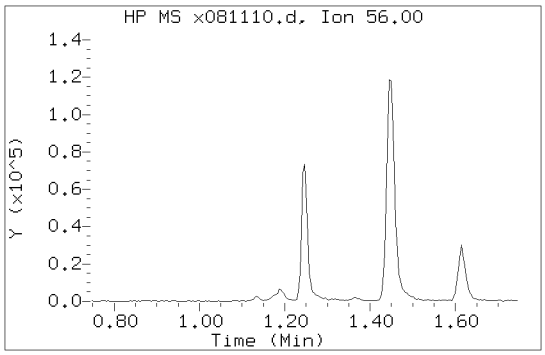
Isobutylene (115-11-7)

Reason Code:

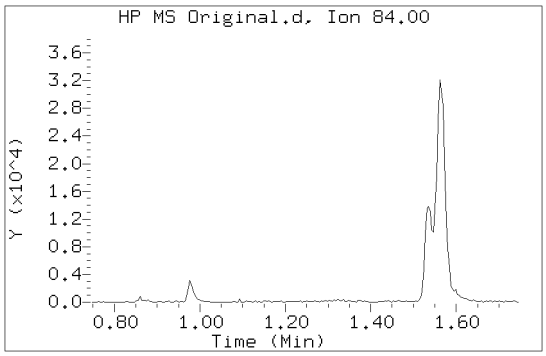
BEFORE
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12-Aug-2023
22:49



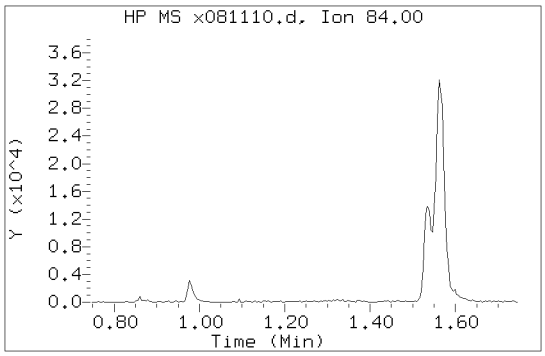
AFTER
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12-Aug-2023
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BEFORE
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AREA
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12-Aug-2023
22:49



AFTER
MASS
84
AREA
0
HEIGHT
0
12-Aug-2023
22:49



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081111.D Page 1
Report Date: 23-Aug-2023 11:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081111.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 11-AUG-2023 14:57
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 14:37 Cal File: X081110.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	697355	50.0000	
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	1273733	200.000	197.23
	3 Chloromethane	50	1.085	1.085	(0.260)	1501670	200.000	221.29(A)
	4 Propionitrile	54	3.664	3.664	(0.876)	2016279	2000.00	2076.17(A)
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	1625625	200.000	194.35
	6 Bromomethane	94	1.336	1.336	(0.320)	956388	200.000	212.41(A)
	7 Chloroethane	64	1.403	1.403	(0.336)	978448	200.000	178.47
	8 Trichlorofluoromethane	101	1.561	1.561	(0.373)	2287228	200.000	192.13
	9 Acrolein	56	1.861	1.861	(0.445)	87268	400.000	389.50(M)
	10 Acetone	43	1.977	1.977	(0.473)	1042142	400.000	399.64
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	1251936	200.000	185.92
	12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	4536512	4000.00	4150.09(A)
	13 Acetonitrile	39	2.202	2.202	(0.527)	2017237	2000.00	1875.70
	14 Allyl Chloride	41	2.202	2.202	(0.527)	3835902	200.000	180.55
	15 Iodomethane	142	2.029	2.029	(0.485)	3724033	400.000	398.58
	16 Acrylonitrile	53	2.536	2.536	(0.606)	1202275	400.000	370.63
	17 Methylene Chloride	84	2.307	2.307	(0.552)	1425676	200.000	168.83
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	4430970	200.000	184.47
	19 Carbon Disulfide	76	2.074	2.074	(0.496)	7789426	400.000	389.78
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	1432064	200.000	183.01

21 Vinyl Acetate	43	3.000	3.000 (0.718)	9226020	400.000	398.58
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	2596693	200.000	176.20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	558535	200.000	189.32
	24 2-Butanone	43	3.585	3.585	(0.857)	1142340	400.000	442.53(AH)
	25 Methacrylonitrile	41	3.821	3.821	(0.914)	1395789	200.000	200.68(aA)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	1951668	200.000	197.32
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	1468934	200.000	195.47
	28 Chloroform	83	3.904	3.904	(0.934)	2441223	200.000	189.00
	29 Bromochloromethane	128	3.795	3.795	(0.908)	772992	200.000	180.94
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	1262400	200.000	199.84
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	2104490	200.000	202.94(A)
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	1801498	200.000	210.60(AH)
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	1992723	200.000	192.82
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	1835945	200.000	203.31(AH)
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	1400428	200.000	199.86
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1087107	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	5273785	200.000	196.95
	38 Trichloroethene	130	5.205	5.205	(1.048)	1543357	200.000	200.55(A)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	1962606	200.000	196.80
	40 Methyl Methacrylate	41	5.606	5.606	(1.341)	1323466	200.000	206.26(A)
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	1056330	400.000	414.05(A)
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	1494470	200.000	197.93
	43 2-Nitropropane	43	5.966	5.966	(1.427)	514639	200.000	200.92(A)
	44 Dibromomethane	93	5.549	5.549	(1.118)	976857	200.000	189.32
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	3137692	400.000	405.52(A)
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	2420159	200.000	212.08(A)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	1078660	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	4669605	200.000	183.94
	49 Ethyl Methacrylate	69	6.786	6.786	(1.367)	2101737	200.000	211.02(H)
	50 Toluene	91	6.445	6.445	(0.841)	5994422	200.000	199.44
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	2078683	200.000	217.04(A)
	52 2-Hexanone	43	7.086	7.086	(0.924)	2163687	400.000	416.59(A)
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	1182722	200.000	197.40
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	2389306	200.000	195.08
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	1803342	200.000	208.55(A)
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	1301957	200.000	208.40(A)
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	1466476	200.000	200.36(A)
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	1360685	200.000	216.33(A)
	59 Chlorobenzene	112	7.690	7.690	(1.003)	4161283	200.000	200.93(A)
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	1662627	200.000	207.83(A)
	61 Ethylbenzene	106	7.799	7.799	(1.017)	2073572	200.000	202.74(A)
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	5408322	400.000	413.37(A)
	63 o-Xylene	106	8.241	8.241	(1.075)	2648551	200.000	205.42(A)
	64 Styrene	104	8.256	8.256	(1.077)	4660554	200.000	217.37(A)
	66 Bromoform	173	8.406	8.406	(1.096)	1355440	200.000	232.33(A)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	6772619	200.000	211.38(A)
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	2090395	200.000	192.13
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	2160189	200.000	202.02(A)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	668386	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	1487796	200.000	185.94(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	586400	200.000	215.61(AH)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	8136250	200.000	205.87(A)
	74 Bromobenzene	156	8.803	8.803	(0.911)	2064664	200.000	193.26
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	6150520	200.000	212.88(A)

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	4820721	200.000	190.49
77	4-Chlorotoluene	91	9.066	9.066 (0.938)	5936857	200.000	203.88(A)

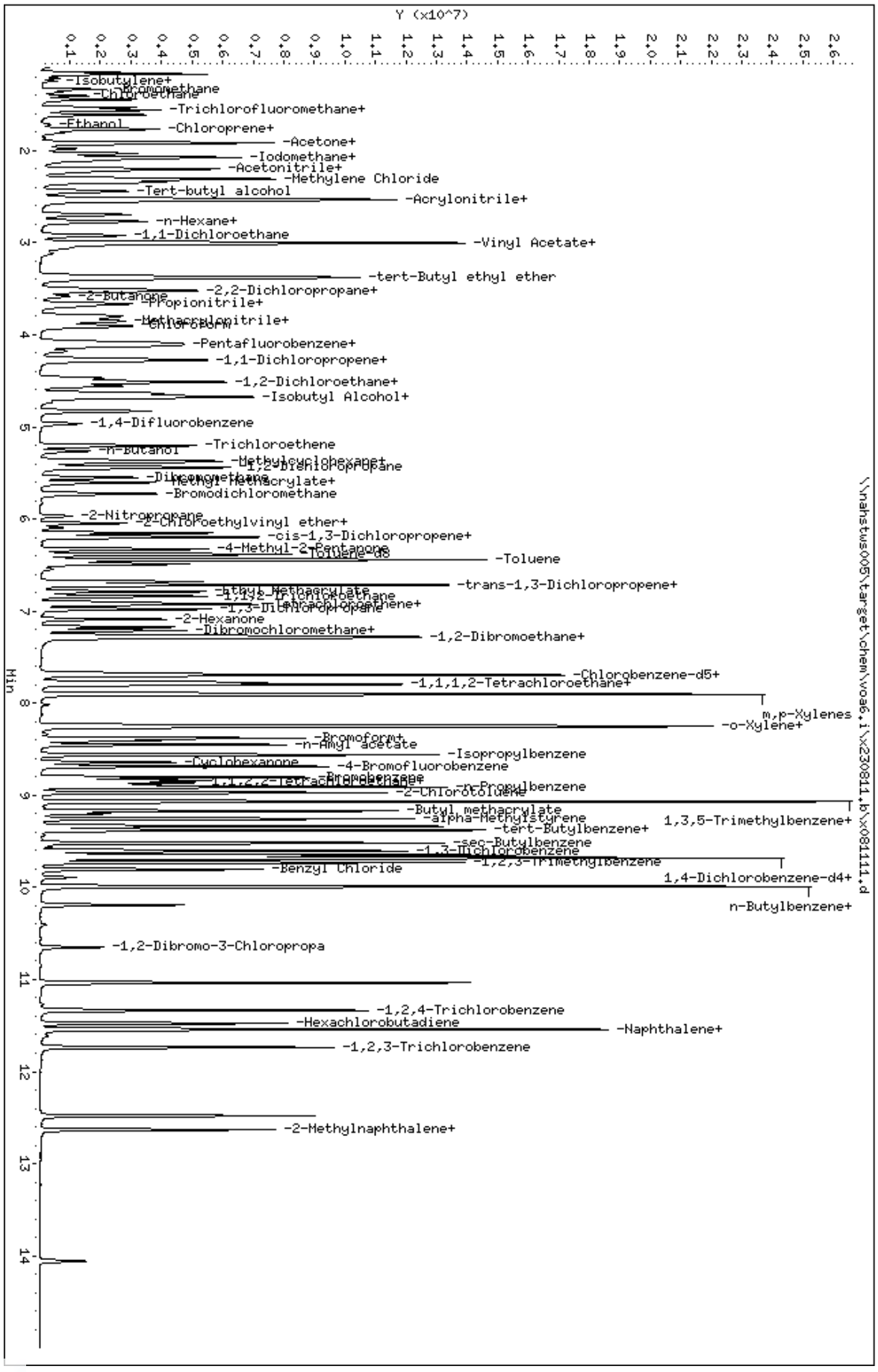
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	5131888	200.000	207.33(A)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	6083993	200.000	204.49(A)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	7245513	200.000	213.53(A)
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	6561798	200.000	213.87(A)
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	3814202	200.000	200.47(A)
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	4054602	200.000	198.98
86	Benzyl Chloride	91	9.804	9.804	(1.279)	3968483	200.000	257.03(A)
87	n-Butylbenzene	91	9.992	9.992	(1.034)	6046266	200.000	196.26
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	3878524	200.000	201.94(A)
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	382647	200.000	207.95(A)
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	2749171	200.000	216.31(A)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	1270952	200.000	81.27
92	Naphthalene	128	11.540	11.540	(1.194)	6417842	200.000	202.31(A)
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	2508449	200.000	202.54(A)
146	Methyl acetate	43	2.232	2.232	(0.534)	1140139	200.000	181.94
138	Freon TF	101	1.917	1.917	(0.459)	1294079	200.000	193.81
141	Cyclohexane	56	4.121	4.121	(0.986)	1872161	200.000	195.12
142	Tetrahydrofuran	42	3.851	3.851	(0.921)	514614	400.000	378.29
147	Methylcyclohexane	55	5.381	5.381	(1.084)	3637612	200.000	222.73(A)
135	1,4-Dioxane	88	5.602	5.602	(1.340)	359997	4000.00	4061.37(A)
132	n-Butanol	56	5.265	5.265	(1.259)	804319	4000.00	4131.68(AM)
131	Methyl Acrylate	55	3.690	3.690	(0.883)	1475964	200.000	214.23(AM)
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	3637612	200.000	220.52(A)
136	n-Hexane	57	2.772	2.772	(0.663)	1640105	200.000	90.44
139	Diethyl ether	59	1.760	1.760	(0.421)	1116371	200.000	181.37
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	3353385	4000.00	4027.81(A)
149	Isopropyl alcohol	45	2.104	2.104	(0.503)	1951400	4000.00	4024.91(A)
156	Diisopropyl ether	45	3.008	3.008	(0.719)	4888377	200.000	194.63
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	6210977	200.000	200.20(A)
167	Ethanol	45	1.715	1.715	(0.410)	323730	4000.00	3995.66
172	tert-Butyl formate	59	4.635	4.635	(1.108)	2845653	400.000	408.39(A)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	3745822	4000.00	3675.50
174	tert-Amyl methyl ether	73	4.668	4.668	(1.117)	5778342	200.000	218.34(A)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	4543666	200.000	201.23(A)
176	tert-Amyl alcohol	59	4.635	4.635	(1.108)	2845653	4000.00	4092.98(A)
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	8088763	4000.00	3748.50
180	1-Methylnaphthalene	142	12.631	12.631	(1.307)	2948716	200.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	1392141	200.000	193.77
152	Amyl alcohol	42	6.903	6.903	(0.900)	997865	4000.00	11175.66(A)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	2327586	200.000	193.53
159	Propylene oxide	43	1.808	1.808	(0.433)	306483	400.000	272.31
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	884143	4000.00	4740.01(A)
162	Butyl acrylate	55	8.248	8.248	(1.076)	3963766	200.000	225.60(A)
163	Butyl methacrylate	41	9.171	9.171	(0.949)	2680466	200.000	197.85
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	7593221	200.000	199.60
182	Epichlorohydrin	57	6.093	6.093	(1.227)	517519	800.000	778.39
M 94	1,2-Dichloroethylene (total)	96				2900998	400.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	2962283	200.000	208.36(A)
130	Ethyl Acetate	43	3.664	3.664	(0.876)	1528506	200.000	190.95
134	Cyclohexanone	55	8.642	8.642	(0.894)	1443338	4000.00	3391.04
185	Isoprene	39	1.775	1.775	(0.424)	506509	200.000	174.48
188	Isopropyl acetate	43	4.680	4.680	(0.943)	4482376	200.000	204.13(A)

187 n-Amyl acetate	43	8.451	8.451 (1.102)	3437340	200.000	215.81(A)
189 n-Butyl acetate	43	7.210	7.210 (0.940)	2665446	200.000	215.43(AH)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.663)	1640105	4000.00	1820.96
194 Acetaldehyde	44	1.216	1.216	(0.291)	422211	800.000	617.62(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	4122499	200.000	219.57
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	3243147	200.000	228.36(A)
202 Isobutylene	41	1.246	1.246	(0.298)	196721	200.000	214.99(AM)
205 2-Ethylhexyl Acrylate	55	11.543	11.543	(1.195)	3132046	200.000	229.38(A)

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.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Column phase: DB624

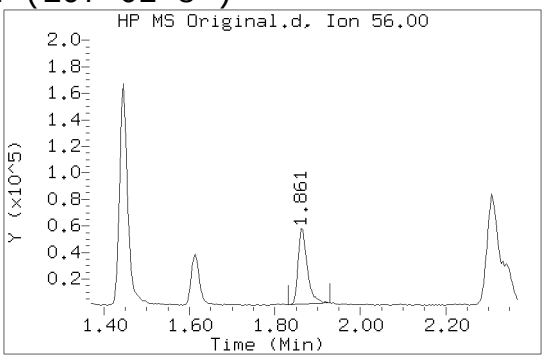
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Operator: PC
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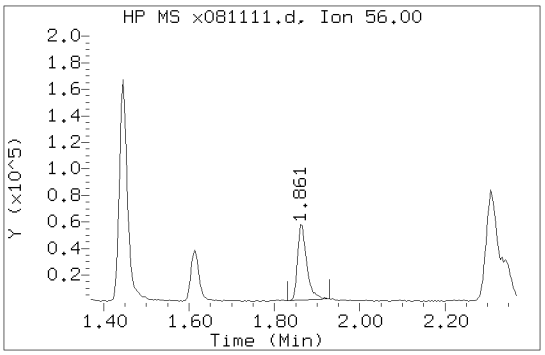
Acrolein (107-02-8)

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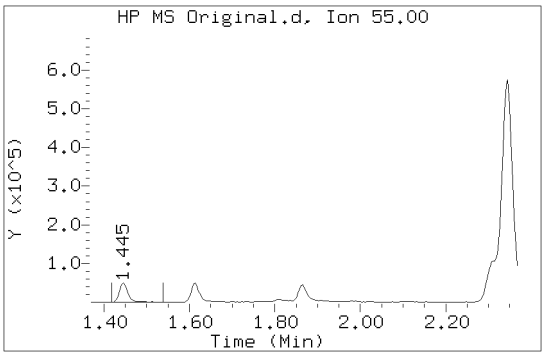
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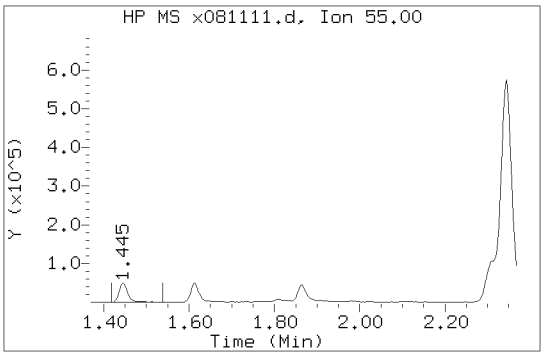
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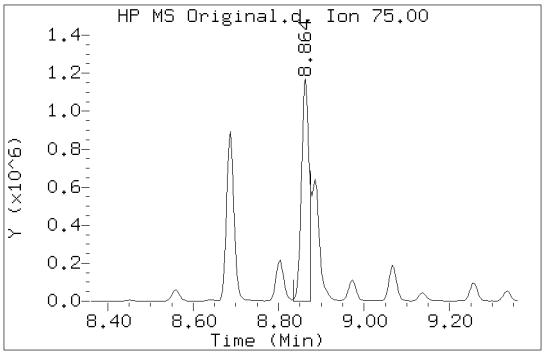
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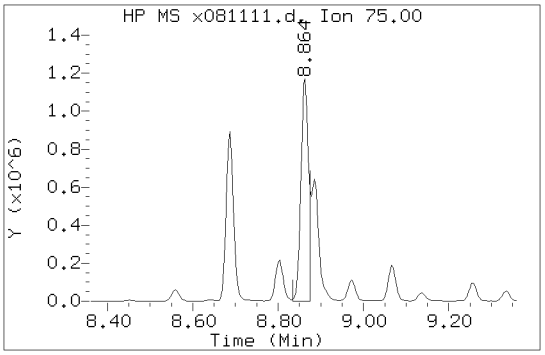
1,2,3-Trichloropropane (96-18-4)

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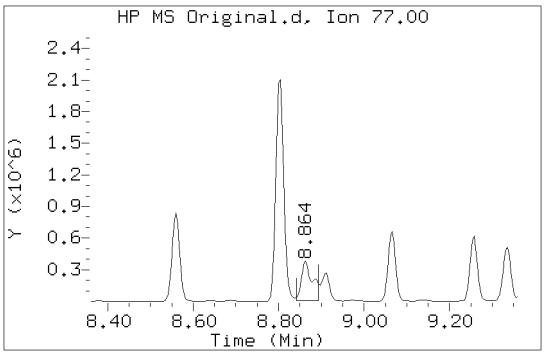
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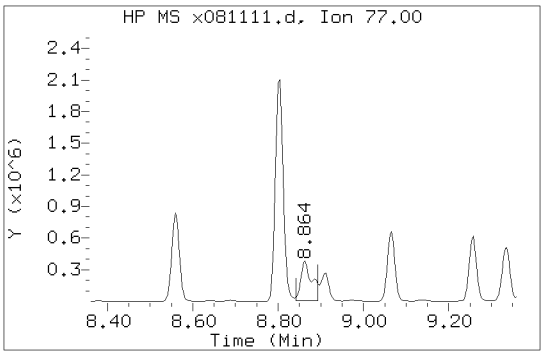
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BEFORE
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AFTER
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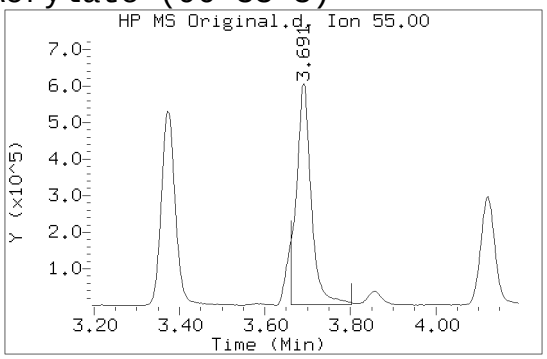


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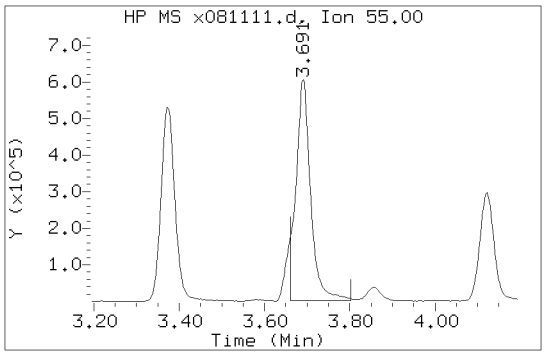
Methyl Acrylate (96-33-3)

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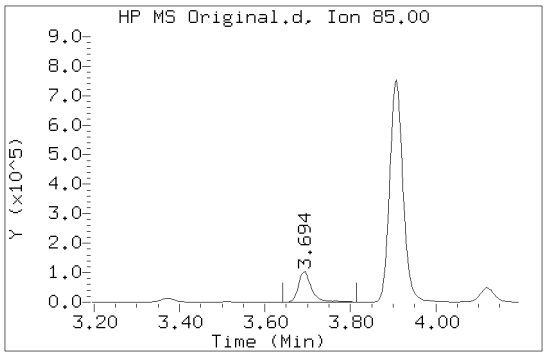
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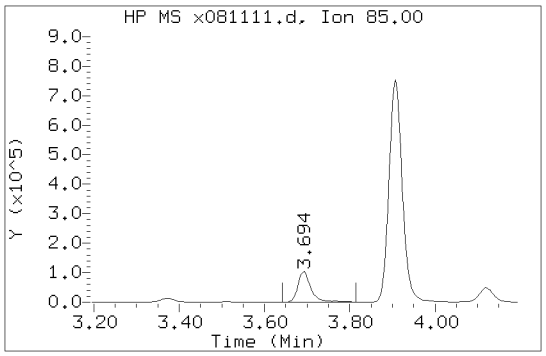
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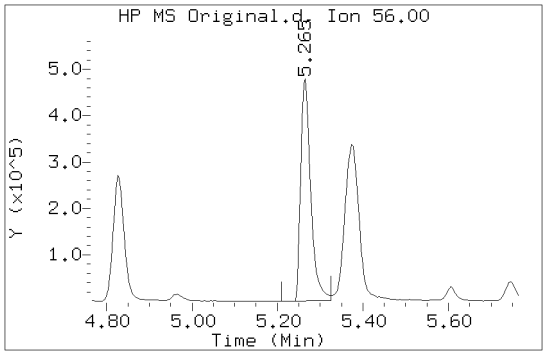
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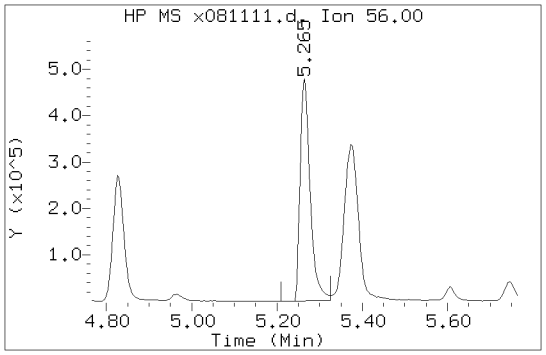
n-Butanol (71-36-3)

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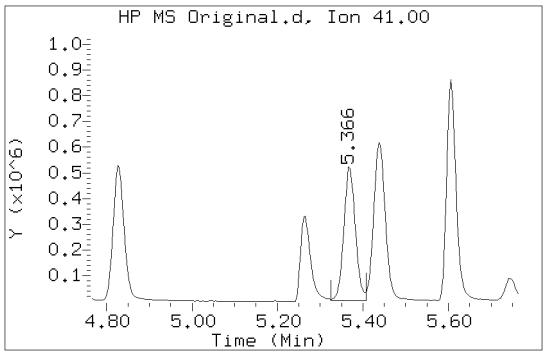
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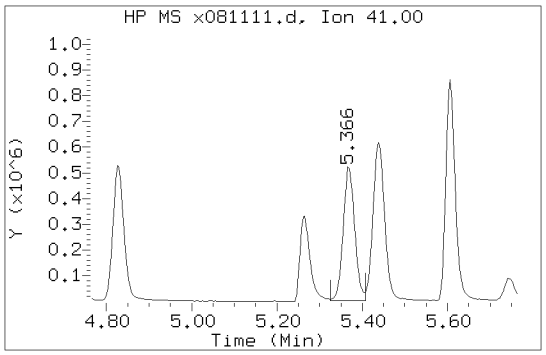
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BEFORE
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AFTER
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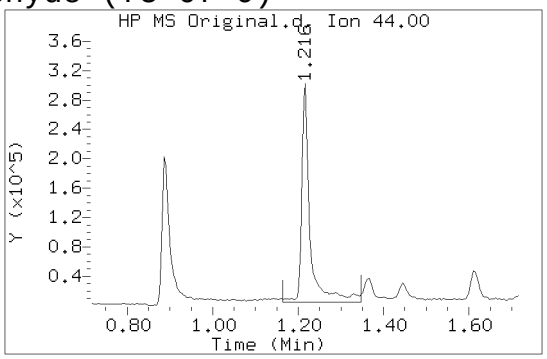


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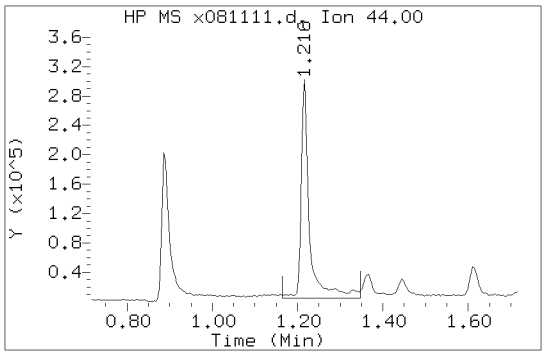
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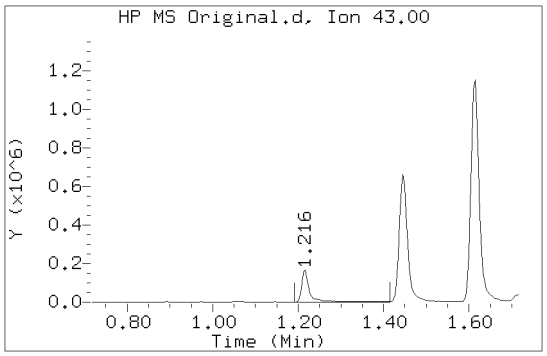
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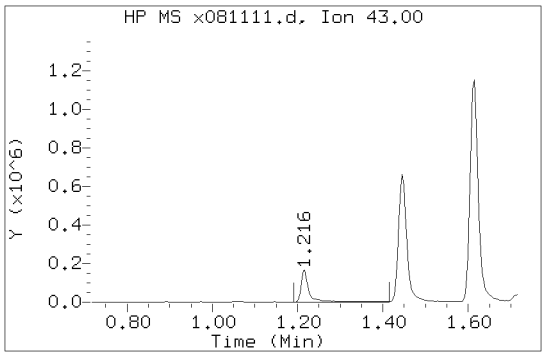
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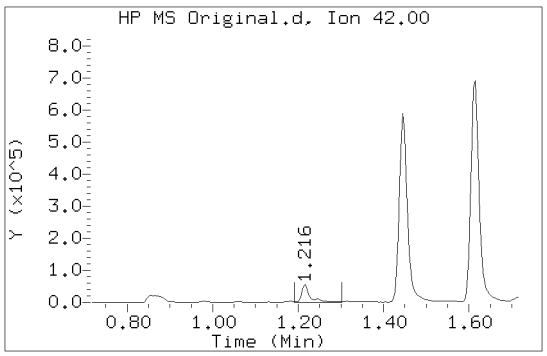
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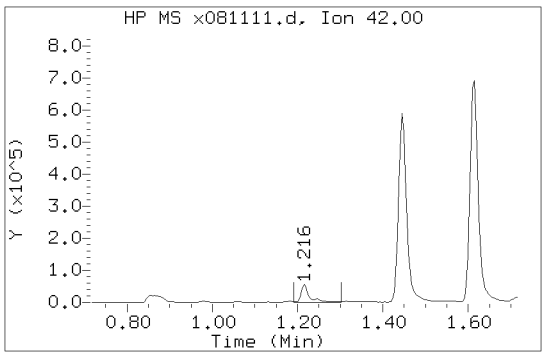
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BEFORE
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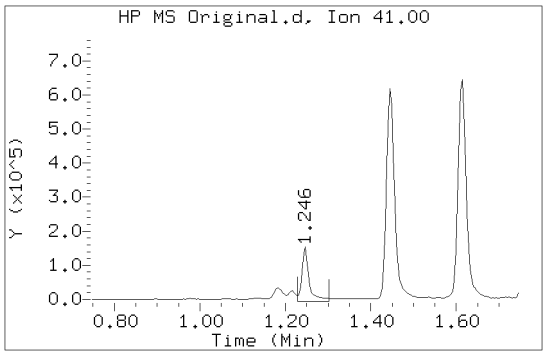
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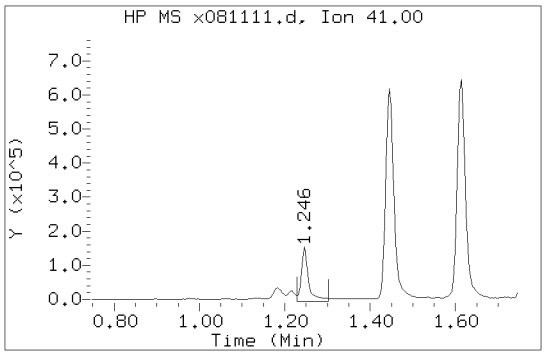
Isobutylene (115-11-7)

Reason Code:

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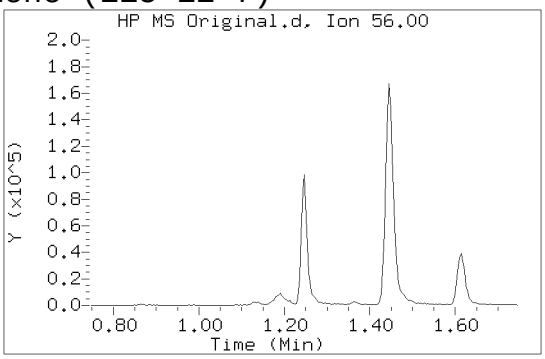


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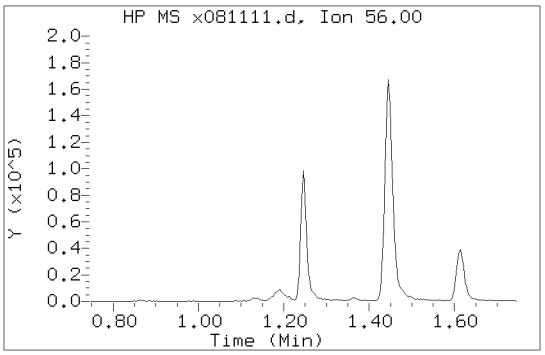
Isobutylene (115-11-7)

Reason Code:

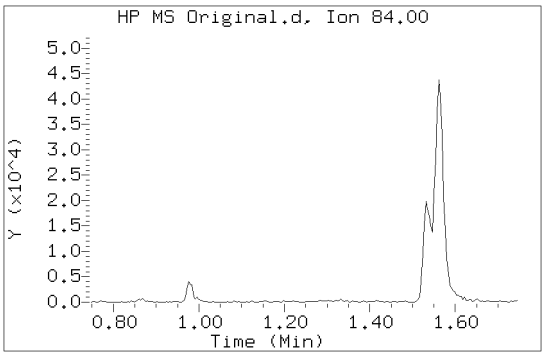
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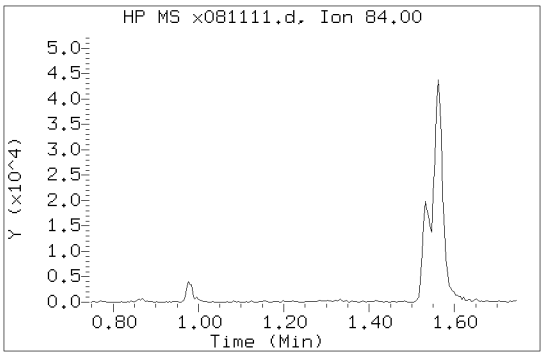
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AFTER
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ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081113.D
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Inj Date : 11-AUG-2023 15:38
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Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment :
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Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 14:57 Cal File: X081111.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.181	(1.000)	670199	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	278753	45.4301	45.43
3 Chloromethane	50	1.085	1.085	(0.260)	305198	46.7975	46.79
4 Propionitrile	54	3.660	3.664	(0.876)	460651	493.555	493.55
5 Vinyl Chloride	62	1.149	1.149	(0.275)	367708	45.7424	45.74
6 Bromomethane	94	1.344	1.336	(0.322)	212672	49.1484	49.14
7 Chloroethane	64	1.407	1.403	(0.337)	232390	44.1073	44.10
8 Trichlorofluoromethane	101	1.565	1.561	(0.375)	497926	43.5217	43.52
9 Acrolein	56	1.865	1.861	(0.446)	20861	94.8205	94.82
10 Acetone	43	1.977	1.977	(0.473)	288065	111.670	111.66
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	290262	44.8534	44.85
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	996165	948.239	948.23
13 Acetonitrile	39	2.202	2.202	(0.527)	422605	408.877	408.87
14 Allyl Chloride	41	2.202	2.202	(0.527)	853074	41.7819	41.78
15 Iodomethane	142	2.033	2.029	(0.487)	637436	84.9734	84.97
16 Acrylonitrile	53	2.539	2.536	(0.608)	279919	89.7905	89.79
17 Methylene Chloride	84	2.307	2.307	(0.552)	359630	44.3140	44.31
18 Methyl tert-butyl ether	73	2.539	2.539	(0.608)	1009461	43.7308	43.73
19 Carbon Disulfide	76	2.075	2.074	(0.497)	1749941	91.1156	91.11
20 trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	333755	44.3805	44.38

21 Vinyl Acetate	43	3.000	3.000 (0.718)	2143043	96.3367	96.33
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	631943	44.6198	44.61

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.775	1.771	(0.425)	125449	44.2468	44.24(M)
	24 2-Butanone	43	3.585	3.585	(0.858)	263108	106.057	106.05(H)
	25 Methacrylonitrile	41	3.825	3.821	(0.916)	302256	45.2200	45.21(a)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	453259	47.6714	47.67
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.845)	337589	46.7448	46.74
	28 Chloroform	83	3.908	3.904	(0.935)	572759	46.1412	46.14
	29 Bromochloromethane	128	3.799	3.795	(0.909)	191270	46.5882	46.58
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	317829	51.7361	51.73
	31 1,1,1-Trichloroethane	97	4.084	4.080	(0.978)	454034	45.5581	45.55
	32 1,1-Dichloropropene	75	4.283	4.279	(0.863)	378396	46.2898	46.28
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	470160	47.6071	47.60
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	385124	44.6289	44.62
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	349319	51.0514	51.05
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1038890	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	1209828	47.2791	47.27
	38 Trichloroethene	130	5.205	5.205	(1.048)	341170	46.3912	46.39
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	453741	47.6112	47.61
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	274347	44.4909	44.49
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	237859	97.5610	97.56
	42 1,2-Dichloropropane	63	5.433	5.437	(1.094)	338551	46.9214	46.92
	43 2-Nitropropane	43	5.969	5.966	(1.429)	101230	41.1235	41.12
	44 Dibromomethane	93	5.550	5.549	(1.118)	230609	46.7682	46.76
	45 4-Methyl-2-Pentanone	43	6.326	6.325	(0.825)	699243	98.2915	98.29
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	529681	48.5712	48.57
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	991755	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1139657	48.8285	48.82
	49 Ethyl Methacrylate	69	6.787	6.786	(1.367)	431949	45.3832	45.38
	50 Toluene	91	6.445	6.445	(0.841)	1287784	46.6006	46.60
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	449888	49.1542	49.15
	52 2-Hexanone	43	7.086	7.086	(0.924)	478972	100.302	100.30
	53 1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	269912	48.9988	48.99
	54 1,3-Dichloropropane	76	6.978	6.981	(0.910)	538369	47.8092	47.80
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	398140	50.0801	50.08
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	266778	46.4464	46.44
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	329212	48.9227	48.92
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	263671	43.8660	43.86
	59 Chlorobenzene	112	7.690	7.690	(1.003)	892241	46.8578	46.85
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	360717	49.0419	49.04
	61 Ethylbenzene	106	7.795	7.799	(1.017)	439106	46.6953	46.69
	62 m,p-Xylenes	106	7.900	7.904	(1.030)	1129037	93.8572	93.85
	63 o-Xylene	106	8.237	8.241	(1.074)	553055	46.6550	46.65
	64 Styrene	104	8.256	8.256	(1.077)	982231	49.8271	49.82
	66 Bromoform	173	8.406	8.406	(1.096)	280929	52.3726	52.37
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1332646	45.2392	45.23
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	451137	48.0360	48.03
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	495886	50.6494	50.64
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.662	(1.000)	576953	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.918)	349366	50.5840	50.58(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	115652	46.2513	46.25
	73 n-Propylbenzene	91	8.908	8.912	(0.922)	1599561	46.8897	46.88
	74 Bromobenzene	156	8.803	8.803	(0.912)	440731	47.7939	47.79
	75 1,3,5-Trimethylbenzene	105	9.062	9.066	(0.938)	1135547	45.5338	45.53

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	994141	45.5092	45.50
77	4-Chlorotoluene	91	9.066	9.066 (0.939)	1180248	46.9553	46.95

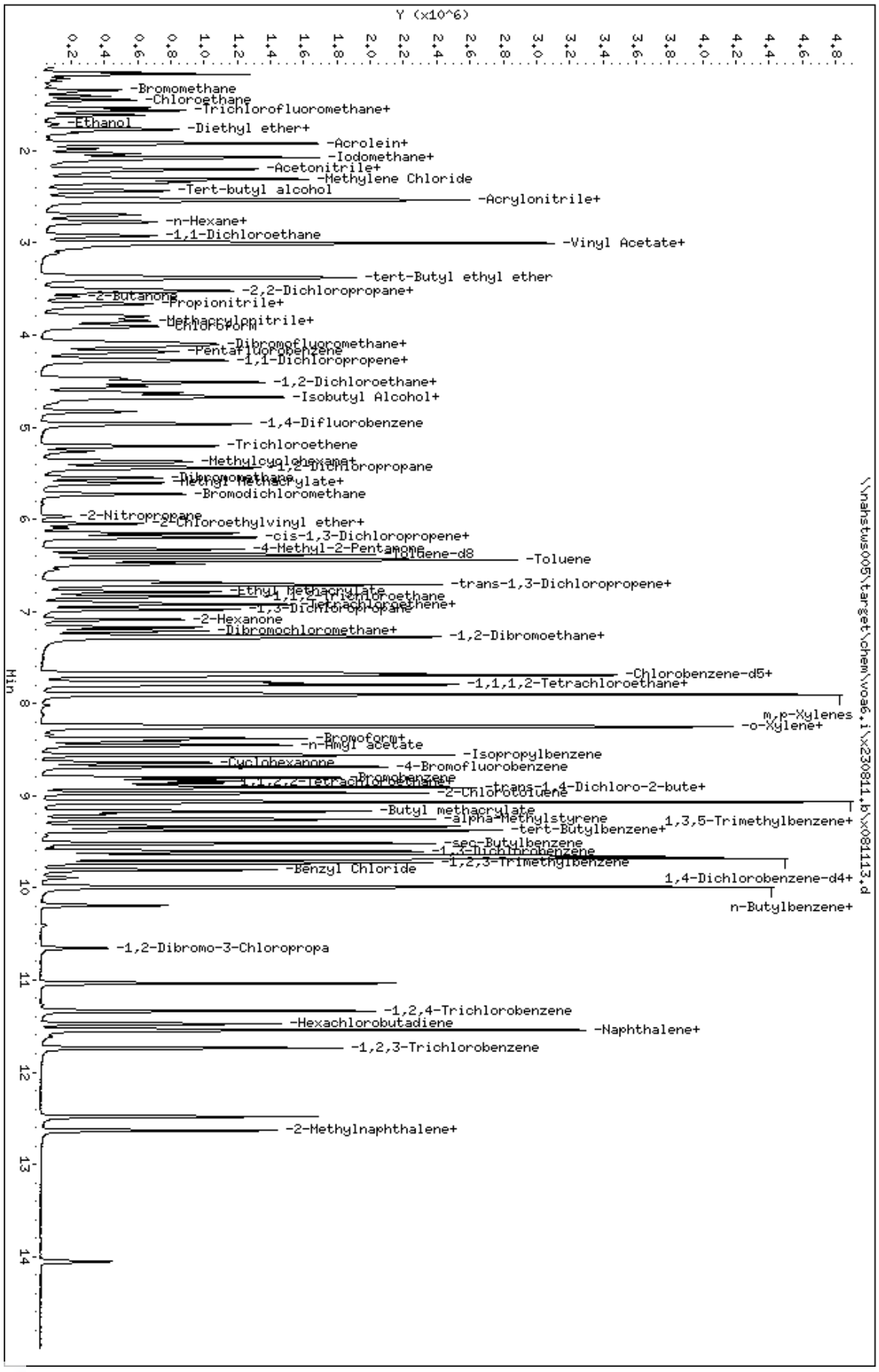
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.332	9.336	(0.966)	958710	44.8714	44.87
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1174441	45.7319	45.73
81	sec-Butylbenzene	105	9.516	9.519	(0.985)	1336529	45.6309	45.63
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	1195711	45.1498	45.14
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	777074	47.3148	47.31
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	817903	46.5010	46.50
86	Benzyl Chloride	91	9.804	9.804	(1.279)	798143	56.2246	56.22
87	n-Butylbenzene	91	9.992	9.992	(1.035)	1066931	41.7285	41.72
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	774373	46.7102	46.71
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.651	(1.103)	78707	49.5541	49.55
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	519071	47.3153	47.31
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	230823	55.7491	55.74
92	Naphthalene	128	11.540	11.540	(1.195)	1286817	46.9944	46.99
93	1,2,3-Trichlorobenzene	180	11.739	11.738	(1.215)	494650	46.2694	46.26
146	Methyl acetate	43	2.236	2.232	(0.535)	286746	47.6134	47.61
138	Freon TF	101	1.921	1.917	(0.460)	272533	43.3566	43.35
141	Cyclohexane	56	4.121	4.121	(0.987)	376528	42.2842	42.28
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	114638	87.6858	87.68
147	Methylcyclohexane	55	5.385	5.381	(1.085)	673650	43.1633	43.16
135	1,4-Dioxane	88	5.602	5.602	(1.341)	82861	972.689	972.68
132	n-Butanol	56	5.373	5.265	(1.286)	145482	832.733	832.73
131	Methyl Acrylate	55	3.694	3.690	(0.884)	349204	52.7407	52.74
133	Ethyl Acrylate	55	5.385	5.381	(1.289)	673650	42.4935	42.49
136	n-Hexane	57	2.772	2.772	(0.664)	305876	48.8226	48.82
139	Diethyl ether	59	1.763	1.760	(0.422)	263563	44.5563	44.55
148	Tert-butyl alcohol	59	2.438	2.442	(0.584)	814992	1008.88	1008.88
149	Isopropyl alcohol	45	2.101	2.104	(0.503)	473296	1006.13	1006.12
156	Diisopropyl ether	45	3.004	3.008	(0.719)	1051991	43.5828	43.58
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1086956	40.5887	40.58
167	Ethanol	45	1.711	1.715	(0.410)	82213	1037.28	1037.28
172	tert-Butyl formate	59	4.627	4.635	(1.108)	528507	78.9214	78.92
173	3,3-Dimethyl-1-butanol	57	7.285	7.293	(0.950)	703312	750.582	750.58
174	tert-Amyl methyl ether	73	4.669	4.668	(1.118)	983975	38.6870	38.68
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.810)	957683	44.1341	44.13
176	tert-Amyl alcohol	59	4.627	4.635	(1.108)	528507	790.969	790.96
151	4-Methyl-2-pentanol	45	6.712	6.719	(1.352)	1343809	651.653	651.65
180	1-Methylnaphthalene	142	12.634	12.631	(1.308)	589150		(a)
140	1,3-Butadiene	54	1.171	1.167	(0.280)	304586	44.1130	44.11
152	Amyl alcohol	42	6.903	6.903	(0.900)	187680	2286.12	2286.12
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	459638	39.7660	39.76
159	Propylene oxide	43	1.808	1.808	(0.433)	77472	71.6236	71.62
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	170158	992.179	992.17
162	Butyl acrylate	55	8.249	8.248	(1.076)	726261	44.9587	44.95
163	Butyl methacrylate	41	9.167	9.171	(0.949)	516809	44.1935	44.19(M)
164	Dicyclopentadiene	66	9.681	9.684	(1.002)	1267154	41.3574	41.35
182	Epichlorohydrin	57	6.097	6.093	(1.228)	115083	181.130	181.12
M 94	1,2-Dichloroethylene (total)	96				671344	91.1253	91.12
M 95	Xylenes (total)	106				1682092	140.512	140.51
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	588589	47.9630	47.96
130	Ethyl Acetate	43	3.664	3.664	(0.877)	367968	47.8328	47.83
134	Cyclohexanone	55	8.642	8.642	(0.895)	342442	932.049	932.04
185	Isoprene	39	1.775	1.775	(0.425)	111412	39.9339	39.93

188 Isopropyl acetate	43	4.680	4.680 (0.943)	997331	47.5282	47.52
187 n-Amyl acetate	43	8.451	8.451 (1.102)	712266	48.6395	48.63

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	571607	50.2486	50.24
150 Allyl alcohol	57	2.772	2.772	(0.664)	305876	975.699	975.69
194 Acetaldehyde	44	1.216	1.216	(0.291)	117693	173.012	173.01
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	771701	44.7054	44.70
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	615675	47.1510	47.15
202 Isobutylene	41	1.246	1.246	(0.298)	37401	42.5312	42.53(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.543	(1.196)	536179	45.4920	45.49

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

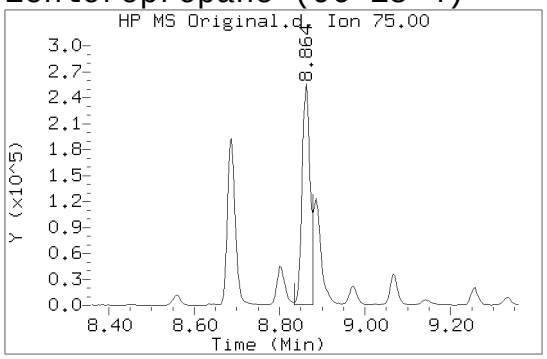
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Inj Date : 11-AUG-2023 15:38
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

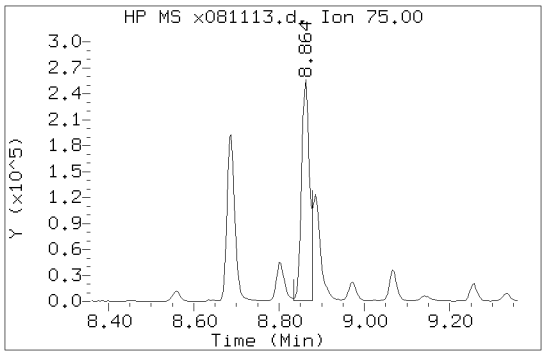
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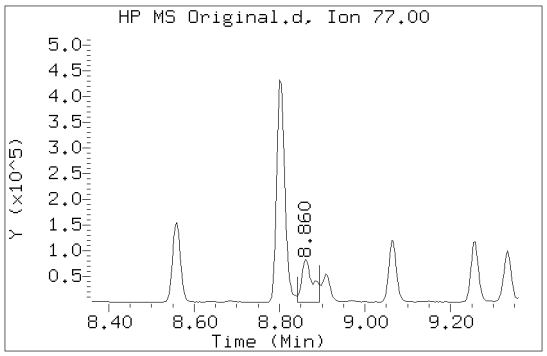
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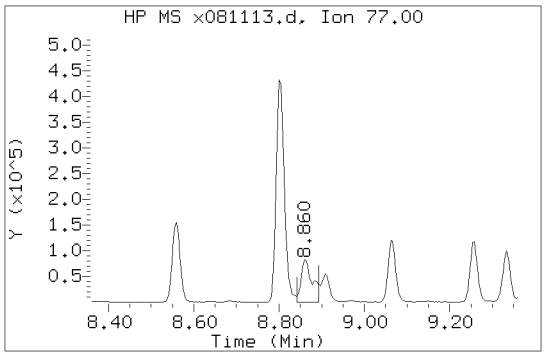
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AFTER

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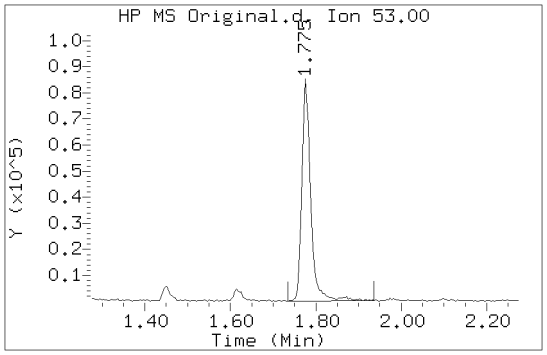


Chloroprene (126-99-8)

Reason Code:

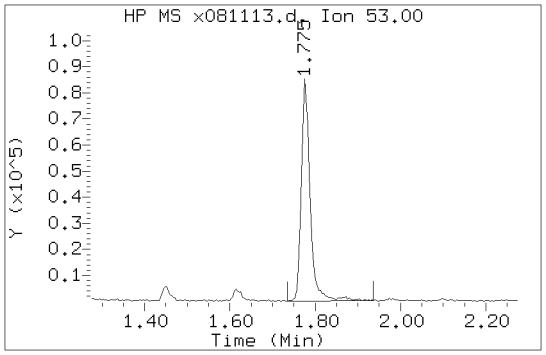
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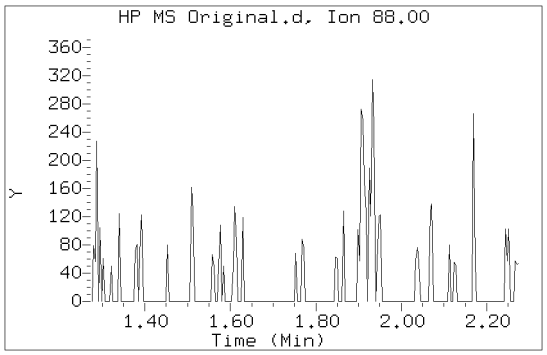
AFTER

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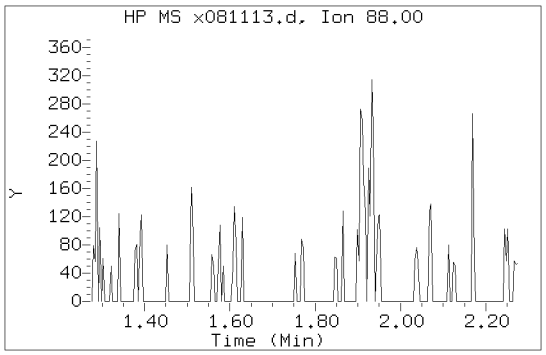
BEFORE

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12-Aug-2023
23:25



AFTER

MASS
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AREA
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HEIGHT
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12-Aug-2023
23:25

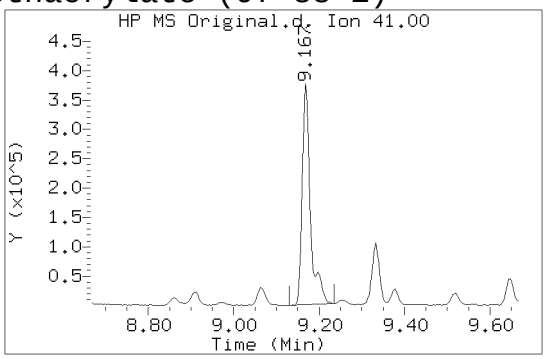


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Inj Date : 11-AUG-2023 15:38
InstruID : voa6.i
LabSampID : CCV

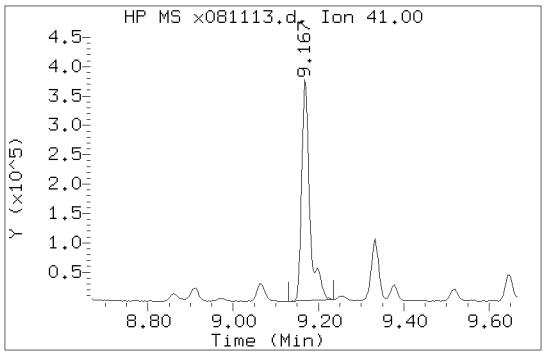
Butyl methacrylate (97-88-1)

Reason Code:

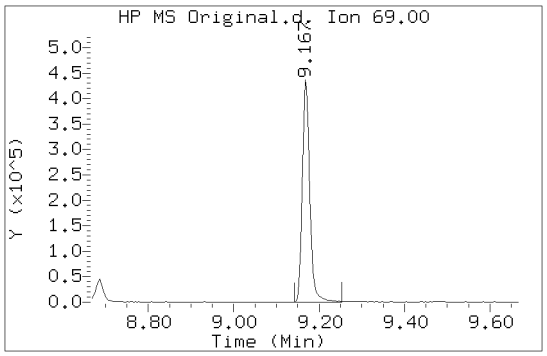
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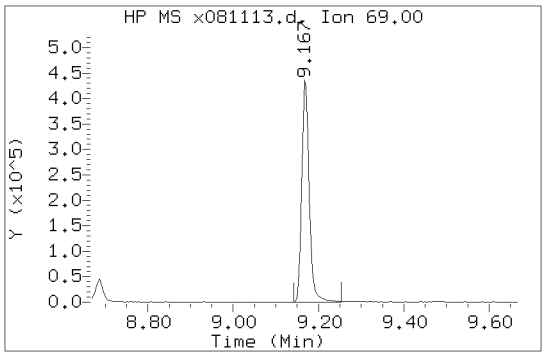
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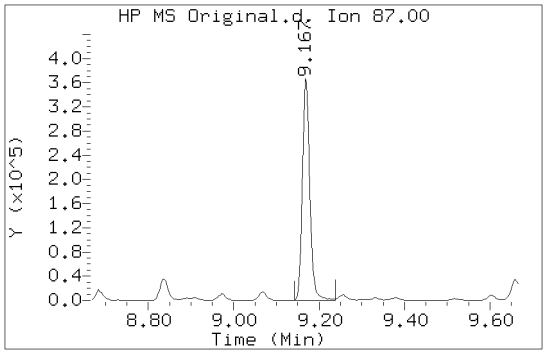
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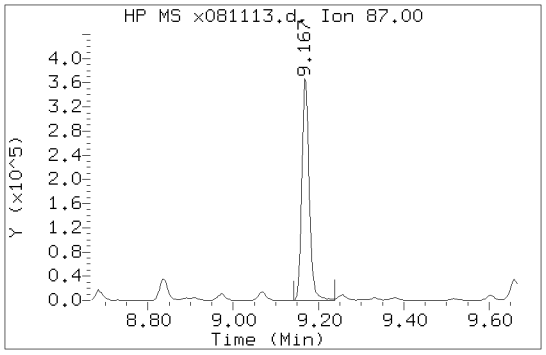
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BEFORE
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12-Aug-2023
23:25



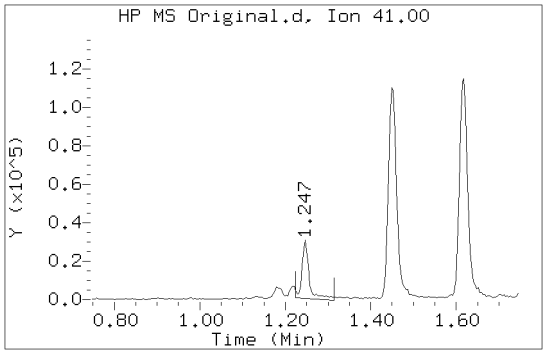
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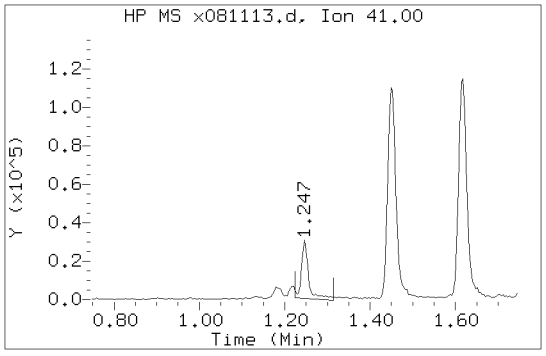
Isobutylene (115-11-7)

Reason Code:

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AFTER
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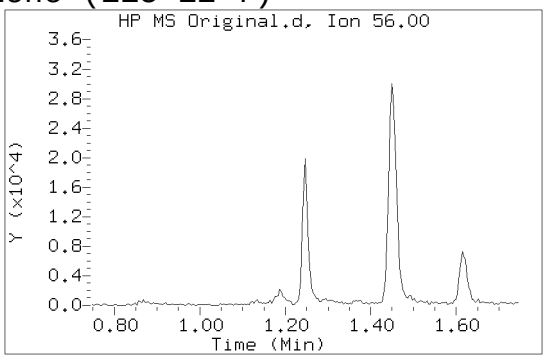


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Inj Date : 11-AUG-2023 15:38
InstruID : voa6.i
LabSampID : CCV

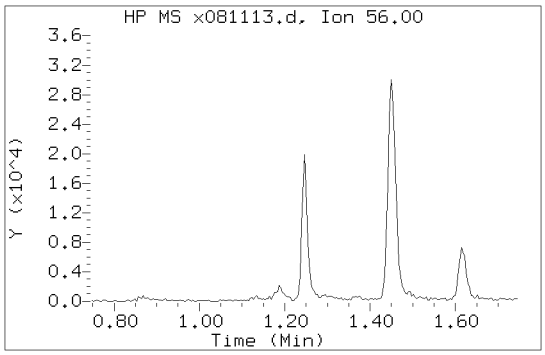
Isobutylene (115-11-7)

Reason Code:

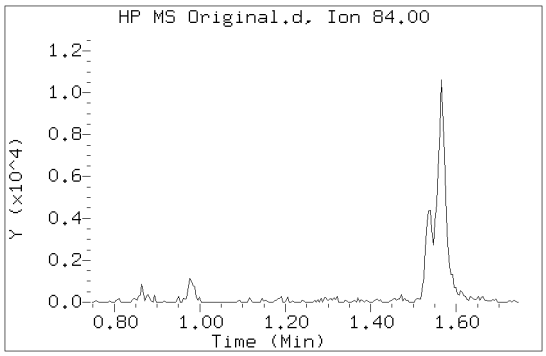
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12-Aug-2023
23:25



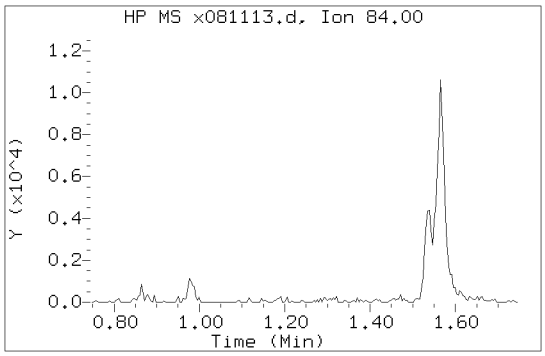
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12-Aug-2023
23:25



BEFORE
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84
AREA
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HEIGHT
0
12-Aug-2023
23:25



AFTER
MASS
84
AREA
0
HEIGHT
0
12-Aug-2023
23:25



01250474

right solutions.
right partner.

Raw Data VOA6 444516

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082101.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 21-AUG-2023 08:11
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\bfb.m
Meth Date : 06-Feb-2018 12:19 pcabasca Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	81648			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	18512			15.00- 40.00	22.67
8.687	8.889	(0.000)	75	42144			30.00- 60.00	51.62
8.687	8.889	(0.000)	96	6082			5.00- 9.00	7.45
8.687	8.889	(0.000)	173	387			0.00- 2.00	0.53
8.687	8.889	(0.000)	174	73392			50.00- 0.00	89.89
8.687	8.889	(0.000)	175	5431			5.00- 9.00	7.40
8.687	8.889	(0.000)	176	71752			95.00- 101.00	97.77
8.687	8.889	(0.000)	177	4194			5.00- 9.00	5.85

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.67
75	30.00 - 60.00% of mass 95	51.62
96	5.00 - 9.00% of mass 95	7.45
173	Less than 2.00% of mass 174	0.47 (0.53)
174	Greater than 50.00% of mass 95	89.89
175	5.00 - 9.00% of mass 174	6.65 (7.40)
176	95.00 - 101.00% of mass 174	87.88 (97.77)
177	5.00 - 9.00% of mass 176	5.14 (5.85)

Data File: X082101.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 123

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	943	68.00	8404	102.90	210	140.80	1219
37.10	5352	69.00	9260	103.90	264	142.80	454
38.00	4670	70.20	796	104.80	769	144.00	127
39.10	3061	70.90	497	105.90	407	144.80	76
40.00	2530	72.00	566	106.90	506	146.00	70
41.00	1991	73.00	3463	107.80	179	146.80	122
42.10	1150	74.00	14320	109.00	384	147.70	307
43.00	1099	75.00	42144	109.90	122	148.80	81
44.00	2686	76.10	4436	111.00	105	151.80	73
44.90	1094	77.00	1633	112.00	70	153.00	119
47.00	1454	77.90	931	112.60	105	154.70	358
48.00	690	78.90	4365	115.00	303	157.00	350
49.00	4369	79.90	927	115.70	414	158.50	145
50.00	18512	80.90	3893	116.90	624	161.00	61
51.00	3995	81.70	811	117.70	562	167.70	74
52.10	425	83.00	369	118.80	524	170.00	122
53.10	236	83.90	332	120.00	84	170.60	66
54.00	301	85.00	347	120.90	78	171.30	120
55.10	2599	85.80	299	122.80	398	173.00	387
56.00	1793	86.90	3100	123.60	72	173.90	73392
57.10	3504	87.90	3734	124.90	53	174.90	5431
58.00	630	88.90	264	126.60	236	175.90	71752
58.80	110	90.80	493	127.90	270	176.90	4194
59.90	879	92.00	2704	128.70	233	177.90	160
61.00	3949	92.90	3695	129.00	213	184.00	125
62.00	3928	94.00	11020	130.00	438	184.90	72
63.00	4011	95.00	81648	131.00	356	186.10	272
64.00	350	96.00	6082	132.00	243	233.80	72
65.10	344	97.10	431	134.70	271	236.00	83
66.00	259	98.00	923	136.30	146	262.00	132
66.80	621	99.10	74	136.70	194		

Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082101.d Page 1

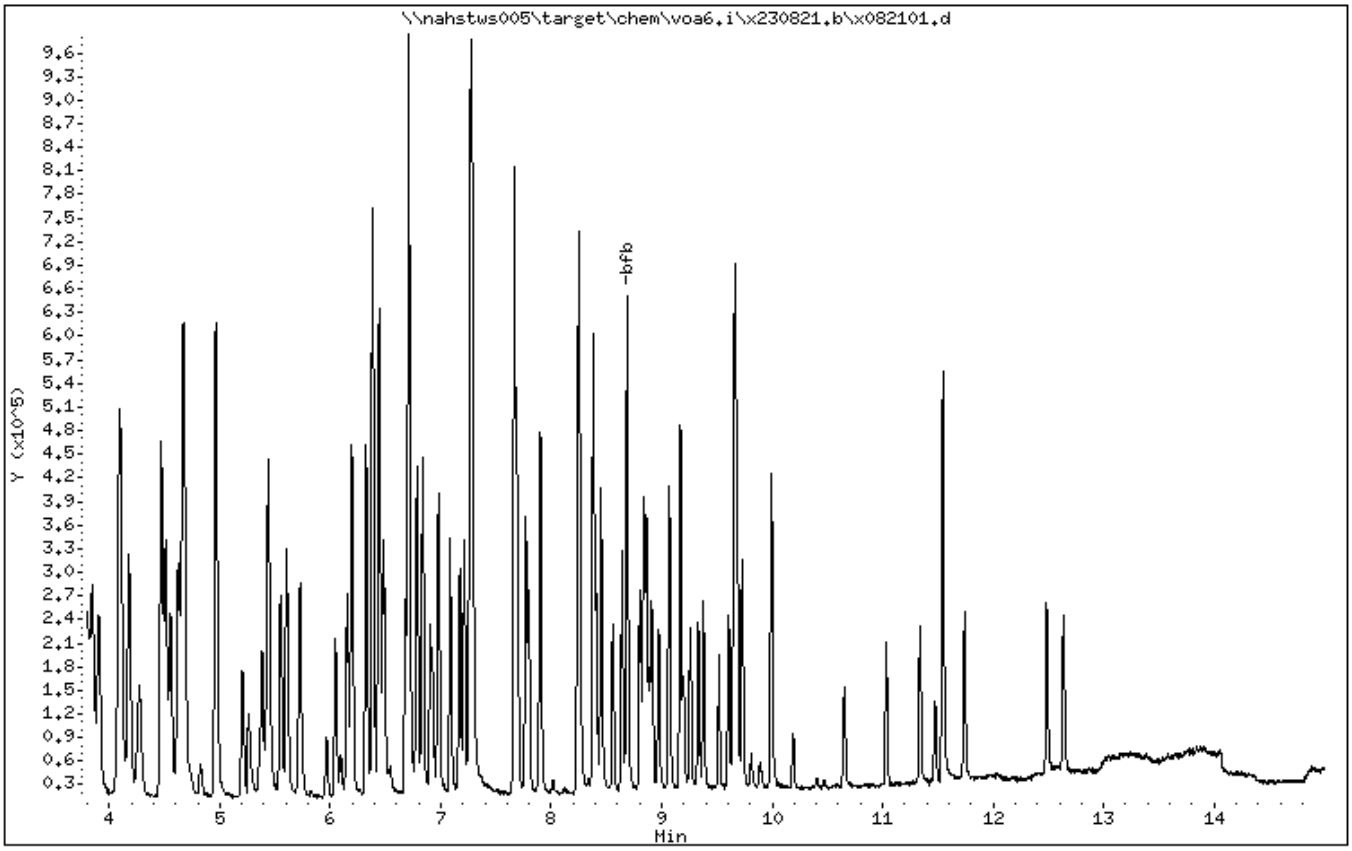
Date : 21-AUG-2023 08:11

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa6.i\x230821.b\x082101.d
Inj Date : 21-AUG-2023 08:11
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082103.D Page 1
Report Date: 21-Aug-2023 10:55

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082103.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 21-AUG-2023 08:52
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 10:53 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	699453	50.0000	
135	1,4-Dioxane	88	5.602	5.602	(1.340)	78036	1000.00	877.73
140	1,3-Butadiene	54	1.171	1.171	(0.280)	335319	50.0000	46.53
25	Methacrylonitrile	41	3.825	3.825	(0.915)	308678	50.0000	44.24
12	Isobutyl Alcohol	43	4.680	4.680	(1.119)	1001717	1000.00	913.64
13	Acetonitrile	39	2.202	2.202	(0.527)	463178	500.000	429.38
14	Allyl Chloride	41	2.202	2.202	(0.527)	881043	50.0000	41.34
4	Propionitrile	54	3.656	3.656	(0.875)	436276	500.000	447.88
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	125352	50.0000	48.54
194	Acetaldehyde	44	1.216	1.216	(0.291)	93914	200.000	130.24
130	Ethyl Acetate	43	3.664	3.664	(0.876)	349881	50.0000	43.57
40	Methyl Methacrylate	41	5.609	5.609	(1.342)	294957	50.0000	45.83
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	467410	50.0000	48.00
131	Methyl Acrylate	55	3.694	3.694	(0.883)	304123	50.0000	44.01
132	n-Butanol	56	5.261	5.261	(1.258)	152141	1000.00	834.28
136	n-Hexane	57	2.772	2.772	(0.663)	422753	50.0000	61.68
139	Diethyl ether	59	1.760	1.760	(0.421)	257950	50.0000	41.78
142	Tetrahydrofuran	42	3.851	3.851	(0.921)	112099	100.000	82.15
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	671110	50.0000	52.58
156	Diisopropyl ether	45	3.004	3.004	(0.719)	1127290	50.0000	44.74

162	Butyl acrylate	55	8.249	8.249 (1.076)	790191	50.0000	47.36
167	Ethanol	45	1.711	1.711 (0.409)	71881	1000.00	864.89

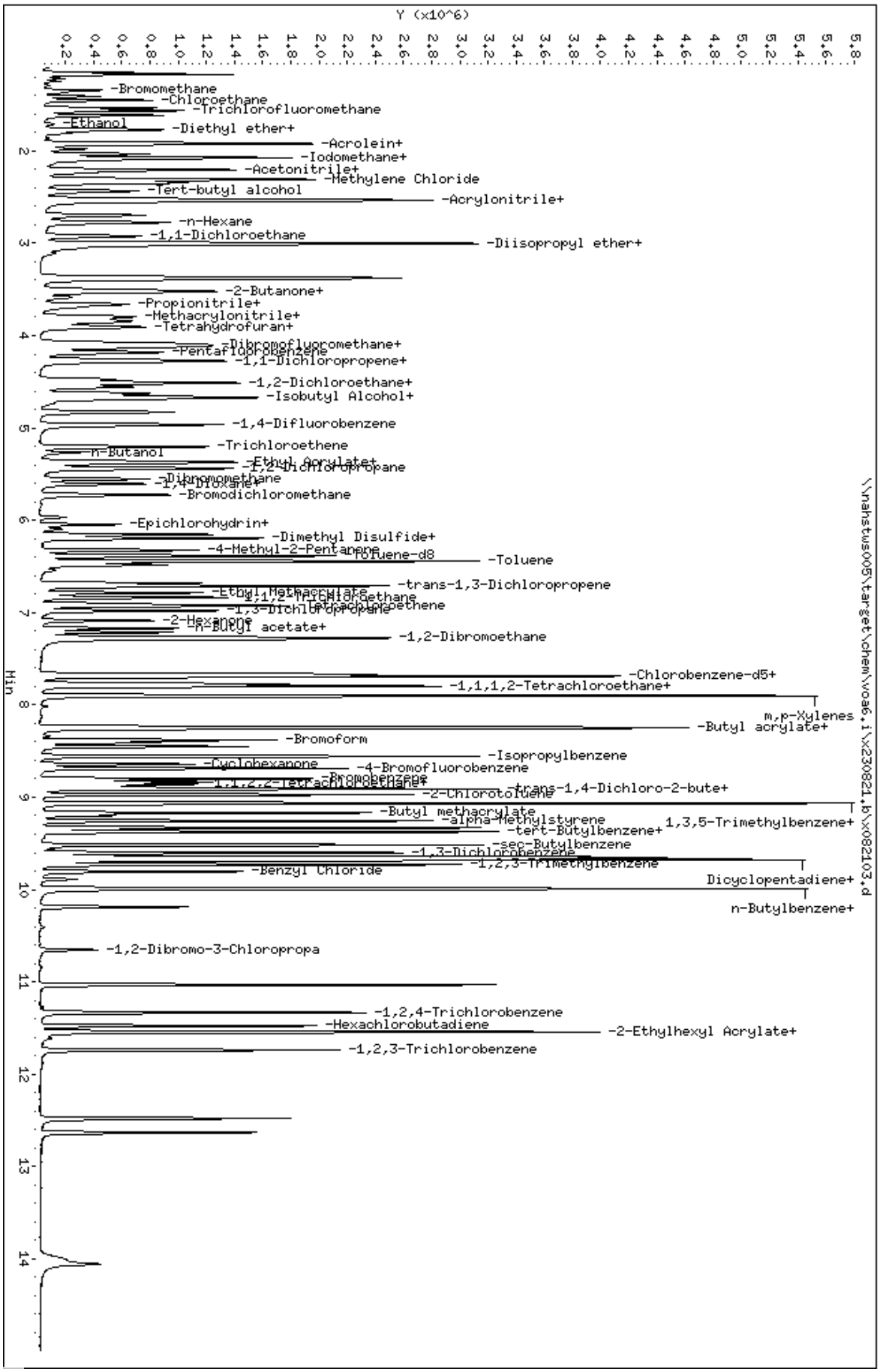
		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
200	Dimethyl Disulfide	94	6.194	6.194	(0.808)	741283	50.0000	54.97
182	Epichlorohydrin	57	6.093	6.093	(1.227)	111224	200.000	171.11
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	1710081	50.0000	53.43
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1394014	50.0000	50.05
205	2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	712962	50.0000	58.16
86	Benzyl Chloride	91	9.804	9.804	(1.279)	823367	50.0000	56.16
134	Cyclohexanone	55	8.642	8.642	(0.895)	359565	1000.00	941.09
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	839897	50.0000	50.76
163	Butyl methacrylate	41	9.167	9.167	(0.949)	553061	50.0000	45.47
188	Isopropyl acetate	43	4.680	4.680	(0.943)	1005485	50.0000	46.83
189	n-Butyl acetate	43	7.210	7.210	(0.940)	551642	50.0000	46.95
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	303632	50.0000	47.38
3	Chloromethane	50	1.085	1.085	(0.260)	313605	50.0000	46.07
5	Vinyl Chloride	62	1.149	1.149	(0.275)	393596	50.0000	46.91
6	Bromomethane	94	1.344	1.344	(0.321)	194892	50.0000	43.15
7	Chloroethane	64	1.407	1.407	(0.337)	248401	50.0000	45.17
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	584861	50.0000	48.98
9	Acrolein	56	1.865	1.865	(0.446)	19517	100.000	84.71
10	Acetone	43	1.977	1.977	(0.473)	263258	100.000	97.21
11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	312500	50.0000	46.27
15	Iodomethane	142	2.033	2.033	(0.486)	752721	100.000	95.11
16	Acrylonitrile	53	2.536	2.536	(0.606)	268666	100.000	82.57
17	Methylene Chloride	84	2.307	2.307	(0.552)	363310	50.0000	42.89
18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	1033182	50.0000	42.88
19	Carbon Disulfide	76	2.075	2.075	(0.496)	1863539	100.000	92.97
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	348563	50.0000	44.41
21	Vinyl Acetate	43	3.000	3.000	(0.718)	2074484	100.000	89.35
22	1,1-Dichloroethane	63	2.925	2.925	(0.700)	640341	50.0000	43.32
24	2-Butanone	43	3.585	3.585	(0.857)	249455	100.000	96.34
26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	509015	50.0000	51.29
27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	369607	50.0000	49.03
28	Chloroform	83	3.908	3.908	(0.935)	615471	50.0000	47.50
29	Bromochloromethane	128	3.795	3.795	(0.908)	203483	50.0000	47.49
$ 30	Dibromofluoromethane	113	4.099	4.099	(0.980)	334309	50.0000	52.14
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	529909	50.0000	50.94
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	446836	50.0000	53.43
33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	485121	50.0000	48.01
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	472428	50.0000	53.51
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	360131	50.0000	50.41
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1062833	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	1283633	50.0000	49.03
38	Trichloroethene	130	5.205	5.205	(1.048)	386453	50.0000	51.36
39	Bromodichloromethane	83	5.726	5.726	(1.153)	481969	50.0000	49.43
41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	224591	100.000	90.04
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	363656	50.0000	49.26
44	Dibromomethane	93	5.553	5.553	(1.119)	238601	50.0000	47.29
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	654817	100.000	89.12
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	565313	50.0000	50.67
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	1024221	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	1171951	50.0000	48.62
50	Toluene	91	6.442	6.442	(0.840)	1403848	50.0000	49.19
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	477060	50.0000	50.94

52	2-Hexanone	43	7.086	7.086 (0.924)	445118	100.000	90.25
53	1,1,2-Trichloroethane	83	6.839	6.839 (0.892)	282595	50.0000	49.67

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	567062	50.0000	48.76
55	Dibromochloromethane	129	7.173	7.173	(0.935)	425126	50.0000	51.77
56	Tetrachloroethene	164	6.925	6.925	(0.903)	326882	50.0000	55.10
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	342300	50.0000	49.25
58	1-Chlorohexane	55	7.694	7.694	(1.550)	338809	50.0000	55.09
59	Chlorobenzene	112	7.690	7.690	(1.003)	970039	50.0000	49.32
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	392309	50.0000	51.64
61	Ethylbenzene	106	7.795	7.795	(1.017)	500875	50.0000	51.57
62	m,p-Xylenes	106	7.900	7.900	(1.030)	1302210	100.000	104.82
63	o-Xylene	106	8.237	8.237	(1.074)	623775	50.0000	50.95
64	Styrene	104	8.256	8.256	(1.077)	1080492	50.0000	53.07
66	Bromoform	173	8.406	8.406	(1.096)	295245	50.0000	53.29
67	Isopropylbenzene	105	8.556	8.556	(1.116)	1627162	50.0000	53.48
68	1,1,2,2-Tetrachloroethane	83	8.833	8.833	(0.915)	452898	50.0000	46.37
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	521374	50.0000	51.55
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	599978	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	357098	50.0000	49.71(M)
73	n-Propylbenzene	91	8.908	8.908	(0.922)	1959213	50.0000	55.22
74	Bromobenzene	156	8.803	8.803	(0.912)	479589	50.0000	50.01
75	1,3,5-Trimethylbenzene	105	9.062	9.062	(0.938)	1382063	50.0000	53.29
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	1149498	50.0000	50.60
77	4-Chlorotoluene	91	9.066	9.066	(0.939)	1360495	50.0000	52.04
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	1213661	50.0000	54.62
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1398264	50.0000	52.35
81	sec-Butylbenzene	105	9.516	9.516	(0.985)	1733358	50.0000	56.90
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	1538552	50.0000	55.86
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	880725	50.0000	51.56
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	915874	50.0000	50.07
87	n-Butylbenzene	91	9.988	9.988	(1.034)	1388969	50.0000	51.73
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	870800	50.0000	50.51
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	79536	50.0000	48.15
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	622337	50.0000	54.55
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	314196	50.0000	68.99
92	Naphthalene	128	11.540	11.540	(1.195)	1367445	50.0000	48.02
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	565935	50.0000	50.90
M 94	1,2-Dichloroethylene (total)	96				718170	100.000	93.44
M 95	Xylenes (total)	106				1925985	150.000	155.77
141	Cyclohexane	56	4.118	4.118	(0.985)	495303	50.0000	52.81
138	Freon TF	101	1.921	1.921	(0.459)	335773	50.0000	50.97
147	Methylcyclohexane	55	5.381	5.381	(1.084)	839897	50.0000	52.60
146	Methyl Acetate	43	2.232	2.232	(0.534)	265332	50.0000	42.21
148	Tert-Butyl alcohol	59	2.434	2.434	(0.582)	723860	1000.00	856.66
149	Isopropyl Alcohol	45	2.097	2.097	(0.502)	422387	1000.00	858.48

QC Flag Legend

M - Compound response manually integrated.



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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

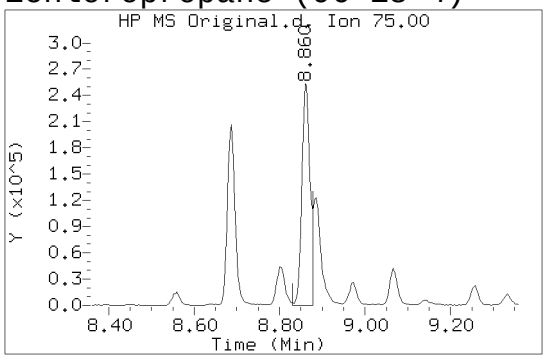
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1,2,3-Trichloropropane (96-18-4)

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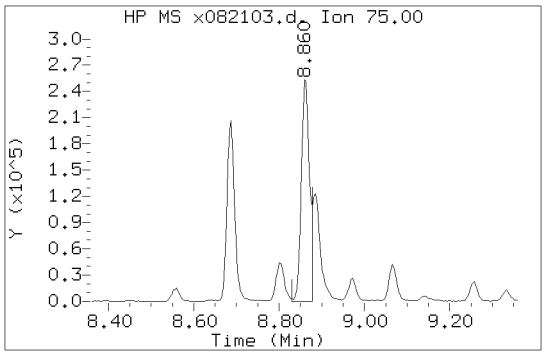
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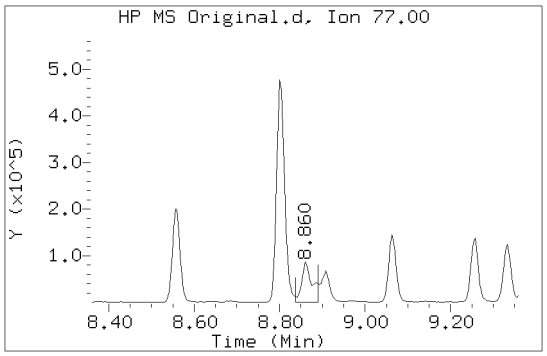
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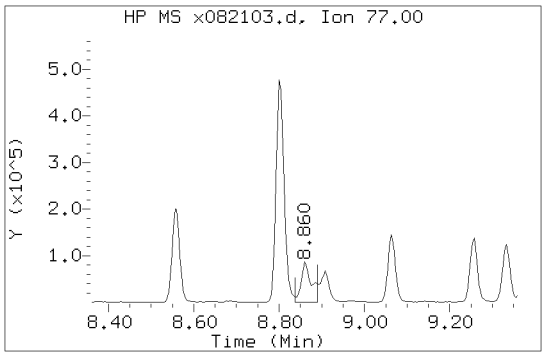
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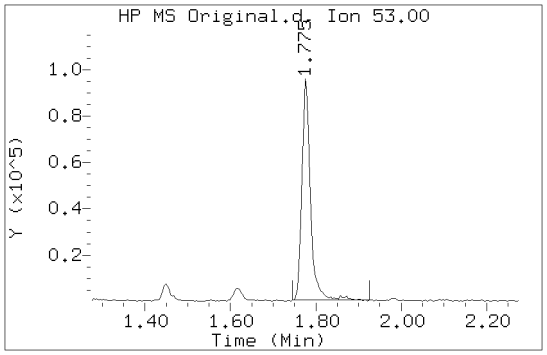


Chloroprene (126-99-8)

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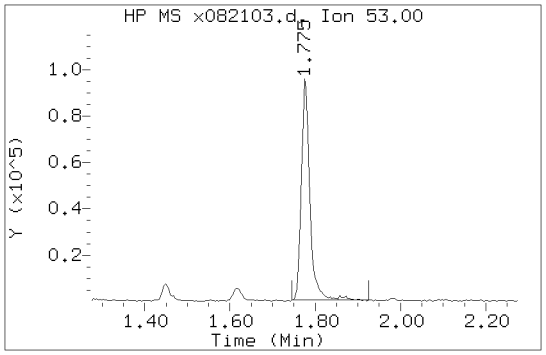
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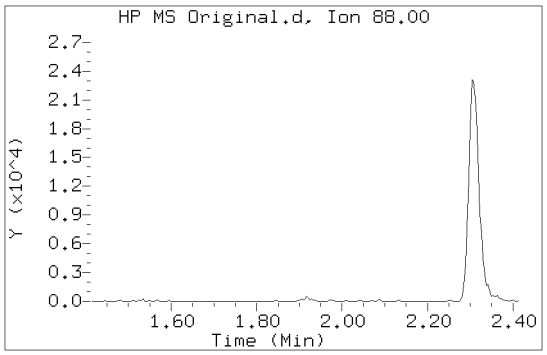
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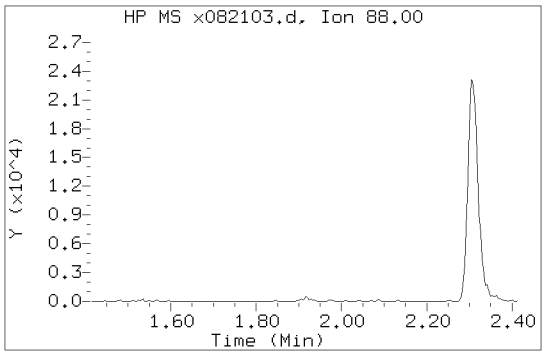
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AFTER

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Report Date: 22-Aug-2023 09:23

ALS Laboratory Group

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Dil Factor: 1.00000
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Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	702162	50.0000	
135 1,4-Dioxane	88	5.602	5.602	(1.340)	29328	328.604	328.60(a)
140 1,3-Butadiene	54	1.171	1.171	(0.280)	144627	19.9927	19.99
25 Methacrylonitrile	41	3.833	3.825	(0.917)	122075	17.4320	17.43
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	416277	378.212	378.21
13 Acetonitrile	39	2.202	2.202	(0.527)	202181	186.709	186.70
14 Allyl Chloride	41	2.202	2.202	(0.527)	371083	17.3476	17.34
4 Propionitrile	54	3.660	3.656	(0.875)	175643	179.623	179.62(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	47678	18.4808	18.48
194 Acetaldehyde	44	1.216	1.216	(0.291)	34443	42.1039	42.10(M)
23 Chloroprene	53	1.775	1.775	(0.424)	59284	19.9581	19.95(M)
130 Ethyl Acetate	43	3.664	3.664	(0.876)	146801	18.2142	18.21
40 Methyl Methacrylate	41	5.609	5.609	(1.342)	113833	17.6200	17.61
49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	189319	19.2154	19.21
131 Methyl Acrylate	55	3.701	3.694	(0.885)	119469	17.2222	17.22
132 n-Butanol	56	5.265	5.261	(1.259)	54455	341.157	341.15(a)
136 n-Hexane	57	2.772	2.772	(0.663)	179242	28.7342	28.73
139 Diethyl ether	59	1.760	1.760	(0.421)	110110	17.7671	17.76
142 Tetrahydrofuran	42	3.855	3.851	(0.922)	47143	34.4179	34.41
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	264513	21.2999	21.29

156	Diisopropyl ether	45	3.004	3.004 (0.719)	470397	18.6009	18.60
162	Butyl acrylate	55	8.252	8.249 (1.076)	312704	18.7623	18.76

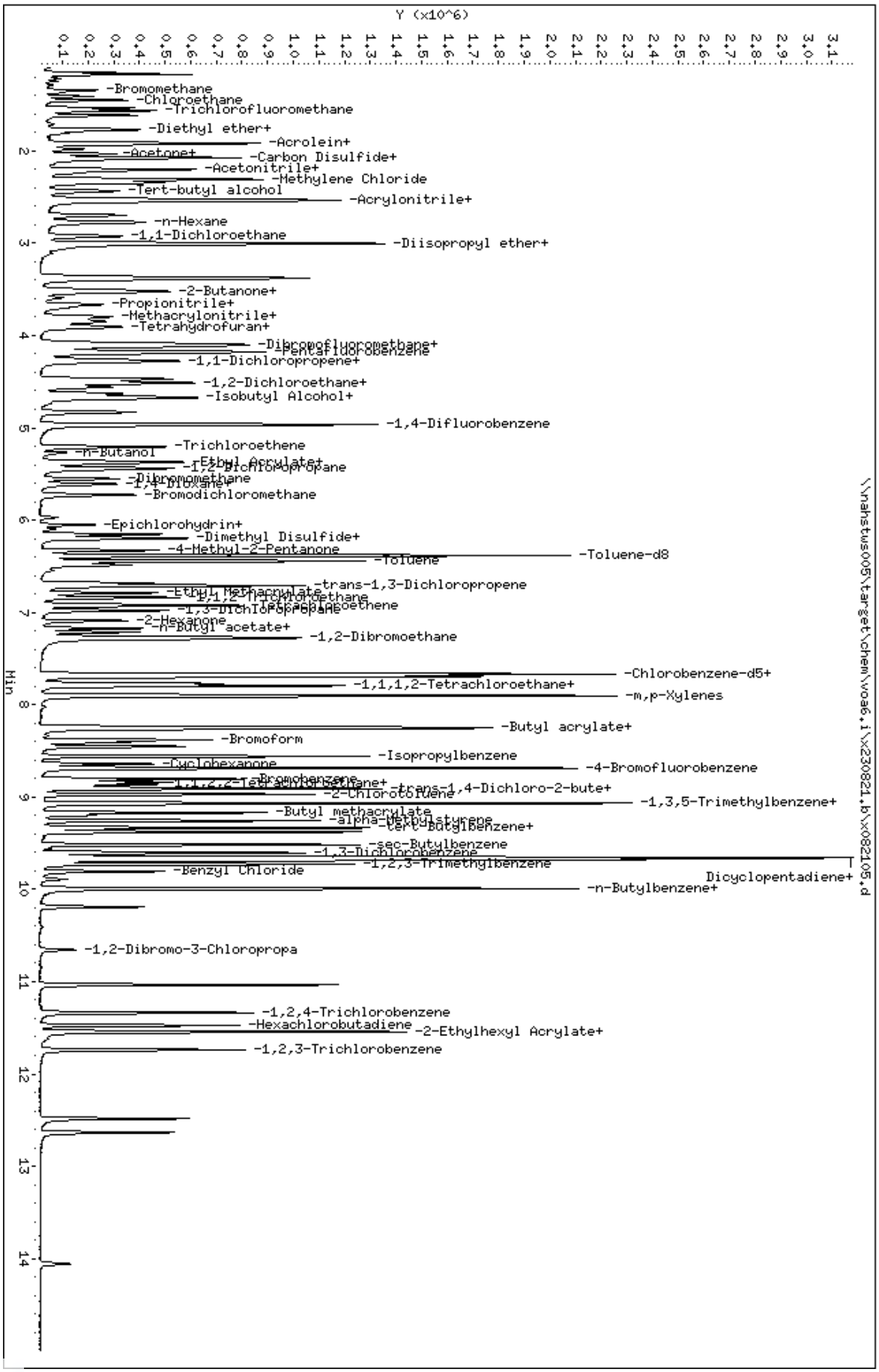
							CONCENTRATIONS	
		QUANT SIG					ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	167 Ethanol	45	1.711	1.711	(0.409)	28926	331.596	331.59
	200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	282875	20.9974	20.99
	182 Epichlorohydrin	57	6.097	6.093	(1.228)	48474	73.7022	73.70
	164 Dicyclopentadiene	66	9.681	9.680	(1.002)	694130	22.5129	22.51
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	550695	20.3208	20.32
	205 2-Ethylhexyl Acrylate	55	11.547	11.544	(1.196)	255020	21.3814	21.38
	86 Benzyl Chloride	91	9.808	9.804	(1.279)	288036	19.6664	19.66
	134 Cyclohexanone	55	8.642	8.642	(0.895)	149966	403.350	403.34(a)
	133 Ethyl Acrylate	55	5.385	5.381	(1.288)	329463	19.8363	19.83
	163 Butyl methacrylate	41	9.171	9.167	(0.950)	236320	19.9694	19.96
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	416277	19.1641	19.16
	189 n-Butyl acetate	43	7.214	7.210	(0.941)	223077	19.0070	19.00
	2 Dichlorodifluoromethane	85	0.976	0.980	(0.234)	134556	21.2917	21.29
	3 Chloromethane	50	1.085	1.085	(0.260)	136605	19.9928	19.99
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	171945	20.4160	20.41
	6 Bromomethane	94	1.344	1.344	(0.321)	87811	19.3693	19.36
	7 Chloroethane	64	1.407	1.407	(0.337)	109634	19.8612	19.86
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	256580	21.4057	21.40
	9 Acrolein	56	1.865	1.865	(0.446)	8832	36.6818	36.68
	10 Acetone	43	1.977	1.977	(0.473)	132208	46.3347	46.33
	11 1,1-Dichloroethene	96	1.917	1.921	(0.459)	137143	20.2276	20.22
	15 Iodomethane	142	2.033	2.033	(0.486)	270516	38.2192	38.21
	16 Acrylonitrile	53	2.539	2.536	(0.607)	112904	34.5680	34.56
	17 Methylene Chloride	84	2.307	2.307	(0.552)	162187	19.0751	19.07
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	438795	18.1437	18.14
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	809829	40.2466	40.24
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	155146	19.6912	19.69
	21 Vinyl Acetate	43	3.004	3.000	(0.719)	844323	36.2273	36.22
	22 1,1-Dichloroethane	63	2.922	2.925	(0.699)	279113	18.8103	18.81
	24 2-Butanone	43	3.589	3.585	(0.858)	95869	36.8849	36.88
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	214511	21.5249	21.52
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	156723	20.7131	20.71
	28 Chloroform	83	3.908	3.908	(0.935)	259897	19.9841	19.98
	29 Bromochloromethane	128	3.799	3.795	(0.909)	85715	19.9275	19.92
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	331615	51.5195	51.51
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	229702	21.9993	21.99
	32 1,1-Dichloropropene	75	4.282	4.279	(0.863)	189068	22.3434	22.34
	33 1,2-Dichloroethane	62	4.560	4.556	(0.918)	199294	19.4946	19.49
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	200601	22.4565	22.45
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	355744	49.5926	49.59
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1075416	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	545265	20.5848	20.58
	38 Trichloroethene	130	5.205	5.205	(1.048)	158712	20.8482	20.84
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	198706	20.1421	20.14
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	88170	34.9358	34.93
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	144998	19.4134	19.41
	44 Dibromomethane	93	5.553	5.553	(1.119)	99012	19.3979	19.39
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	273387	37.2476	37.24
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	226614	20.0745	20.07
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	1023227	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1156220	48.0145	48.01
	50 Toluene	91	6.445	6.442	(0.841)	589595	20.6792	20.67

51	trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)	182859	19.3004	19.30
52	2-Hexanone	43	7.086	7.086 (0.924)	189948	38.5539	38.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	53 1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	113584	19.9854	19.98
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	228830	19.6960	19.69
	55 Dibromochloromethane	129	7.176	7.173	(0.936)	169079	20.6135	20.61
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	134347	22.6706	22.67
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	138083	19.8887	19.88
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	144568	23.2344	23.23
	59 Chlorobenzene	112	7.694	7.690	(1.003)	403757	20.5519	20.55
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	159119	20.9679	20.96
	61 Ethylbenzene	106	7.795	7.795	(1.017)	211331	21.7821	21.78
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	538372	43.3785	43.37
	63 o-Xylene	106	8.241	8.237	(1.075)	254376	20.7988	20.79
	64 Styrene	104	8.256	8.256	(1.077)	436457	21.4598	21.45
	66 Bromoform	173	8.410	8.406	(1.097)	116524	21.0550	21.05
	67 Isopropylbenzene	105	8.560	8.556	(1.116)	666499	21.9297	21.92
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.833	(0.915)	182015	19.1515	19.15
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	508873	50.3787	50.37
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	583853	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	136882	19.5847	19.58(M)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	799099	23.1480	23.14
	74 Bromobenzene	156	8.803	8.803	(0.912)	196526	21.0599	21.05
	75 1,3,5-Trimethylbenzene	105	9.066	9.062	(0.939)	555019	21.9925	21.99
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	470325	21.2758	21.27
	77 4-Chlorotoluene	91	9.066	9.066	(0.939)	541825	21.3014	21.30
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	499395	23.0974	23.09
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	559089	21.5133	21.51
	81 sec-Butylbenzene	105	9.519	9.516	(0.986)	703144	23.7226	23.72
	82 p-Isopropyltoluene	119	9.647	9.647	(0.999)	616900	23.0187	23.01
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	354446	21.3266	21.32
	84 1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	375867	21.1170	21.11
	87 n-Butylbenzene	91	9.992	9.988	(1.035)	553655	22.3819	22.38
	88 1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	345488	20.5936	20.59
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	31511	19.6049	19.60
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.174)	236343	21.2889	21.28
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	124685	31.9776	31.97
	92 Naphthalene	128	11.540	11.540	(1.195)	523125	18.8787	18.87
	93 1,2,3-Trichlorobenzene	180	11.739	11.738	(1.215)	222906	20.6042	20.60
M	94 1,2-Dichloroethylene (total)	96				311869	40.4042	40.40
M	95 Xylenes (total)	106				792748	64.1773	64.17
	141 Cyclohexane	56	4.118	4.118	(0.985)	217983	24.1864	24.18
	138 Freon TF	101	1.921	1.921	(0.459)	147768	22.9855	22.98
	147 Methylcyclohexane	55	5.385	5.381	(1.085)	329463	20.3929	20.39
	146 Methyl Acetate	43	2.236	2.232	(0.535)	111795	17.7182	17.71
	148 Tert-Butyl alcohol	59	2.438	2.434	(0.583)	309186	357.050	357.05
	149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	171230	338.988	338.98

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\voa6,i\x230821,b\x082105,d
Date : 21-AUG-2023 09:33
Client ID: WLCSW-230821
Sample Info: WLCSW-230821;WLCSW-230821;3;;LCS
Purge Volume: 5.0
Column phase: DB624

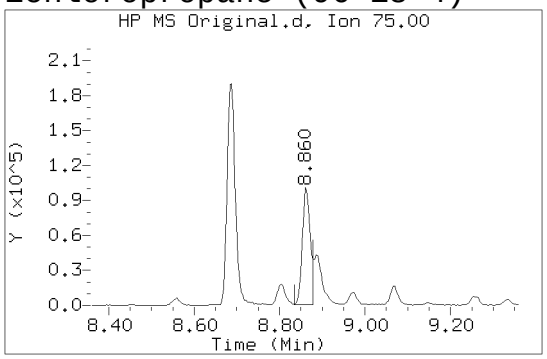
Instrument: voa6,i
Operator: PC
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa6.i\x230821.b\x082105.d
Inj Date : 21-AUG-2023 09:33
InstruID : voa6.i
LabSampID : VLCSW-230821

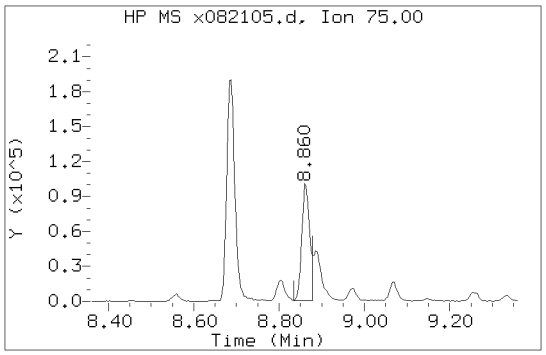
1,2,3-Trichloropropane (96-18-4)

Reason Code:

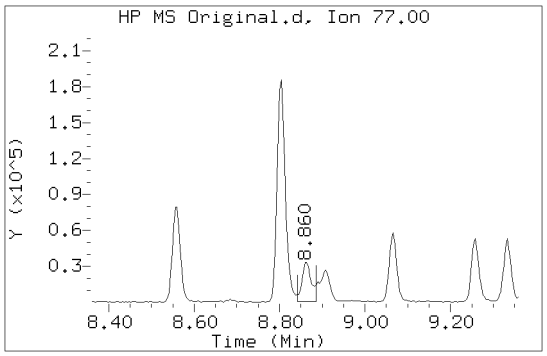
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HEIGHT
100919
22-Aug-2023
09:23



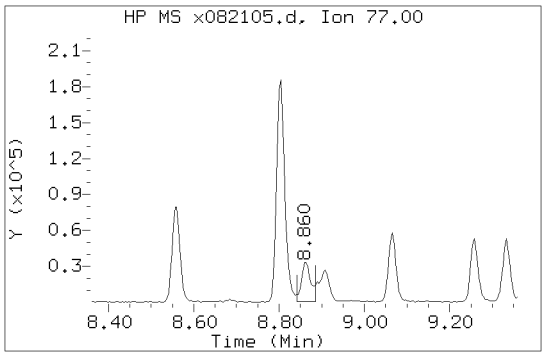
AFTER
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AREA
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22-Aug-2023
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BEFORE
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22-Aug-2023
09:23



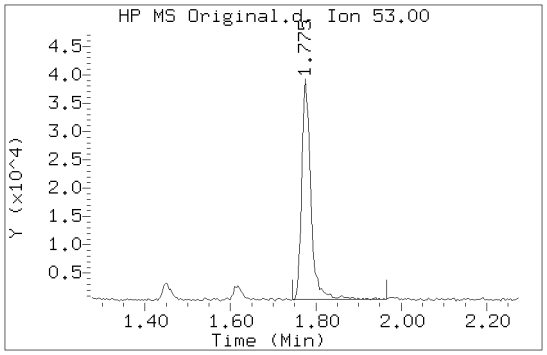
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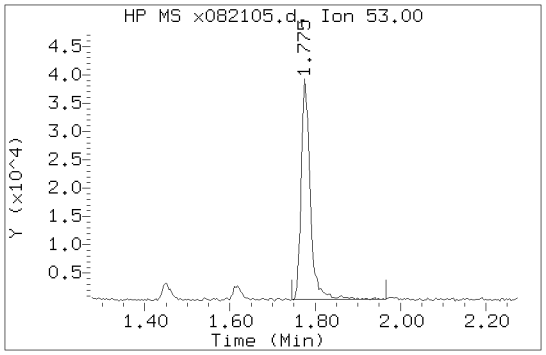
Chloroprene (126-99-8)

Reason Code:

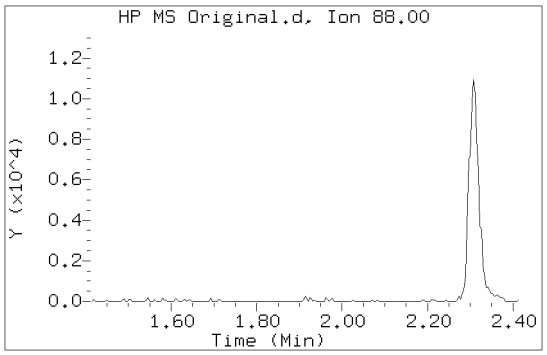
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22-Aug-2023
09:23



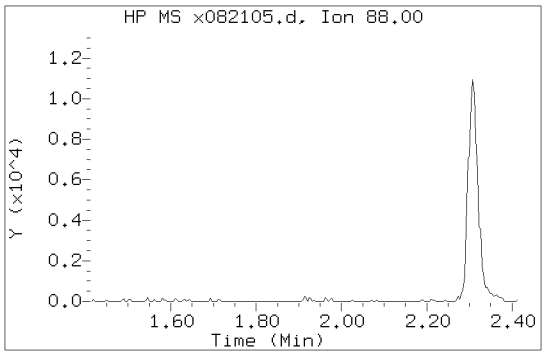
AFTER
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22-Aug-2023
09:23



BEFORE
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22-Aug-2023
09:23



AFTER
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22-Aug-2023
09:23



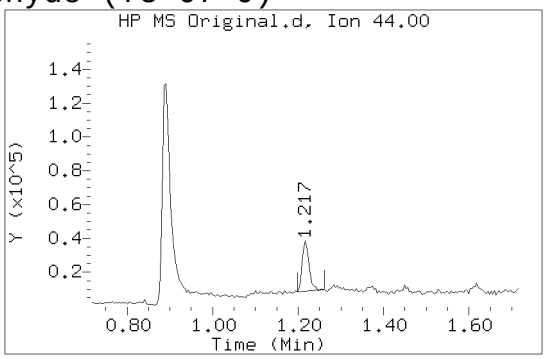
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Inj Date : 21-AUG-2023 09:33
InstruID : voa6.i
LabSampID : VLCSW-230821

Acetaldehyde (75-07-0)

Reason Code:

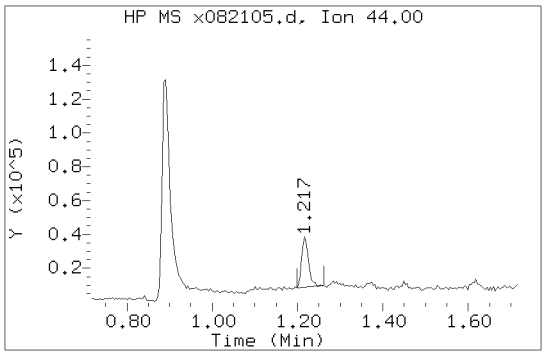
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22-Aug-2023
09:23



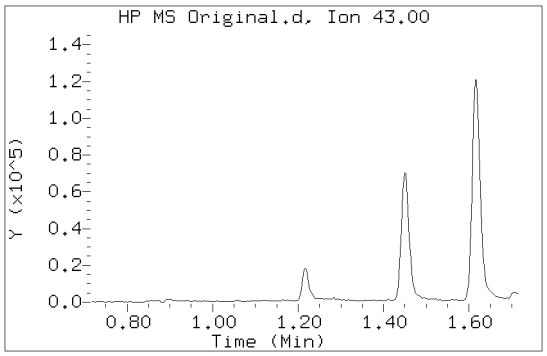
AFTER

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22-Aug-2023
09:23



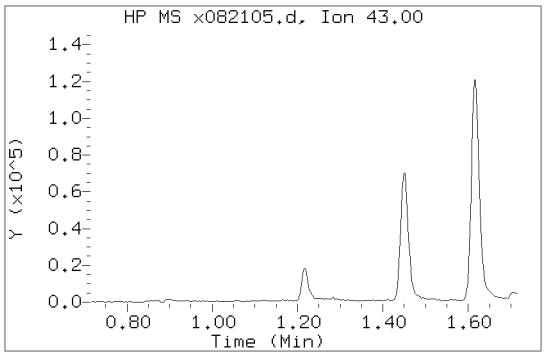
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09:23



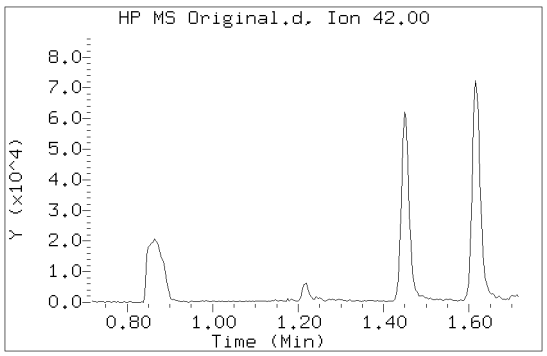
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22-Aug-2023
09:23



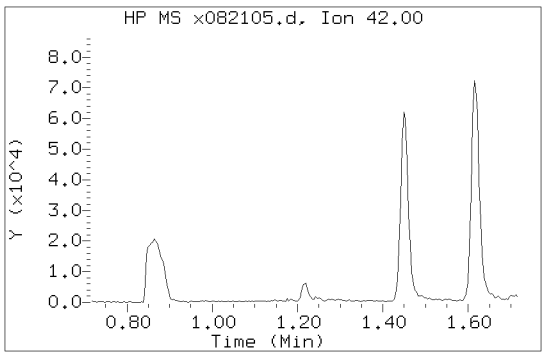
BEFORE

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22-Aug-2023
09:23



AFTER

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AREA
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HEIGHT
0
22-Aug-2023
09:23



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082107.D Page 1
Report Date: 22-Aug-2023 09:23

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082107.D
Lab Smp Id: VBLKW-230821 Client Smp ID: VBLKW-230821
Inj Date : 21-AUG-2023 10:14
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230821;VBLKW-230821;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 22:09 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	682231	50.0000	
6 Bromomethane	94	1.096	1.344	(0.262)	2452	0.55666	0.55(a)
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	320952	51.3164	51.31
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	352450	50.5907	50.59
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	979243	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	922904	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1127751	51.9231	51.92
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	413559	45.4209	45.42
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	511816	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01250496

Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082107.d

Date : 21-AUG-2023 10:14

Client ID: VBLKW-230821

Instrument: voa6.i

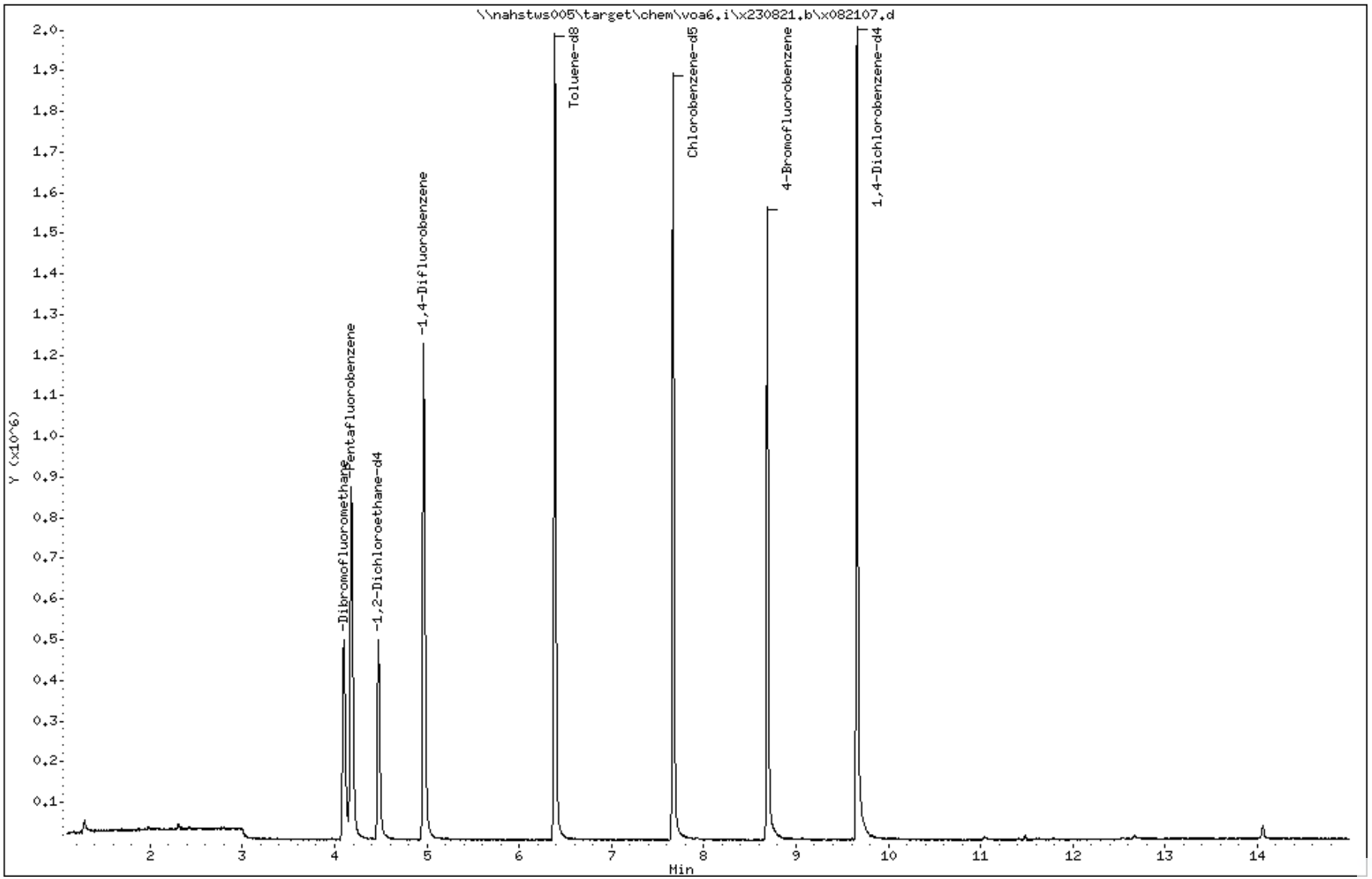
Sample Info: VBLKW-230821;VBLKW-230821;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\nahstws005\target\chem\voa6.i\x230821.b\x082107.d
Inj Date : 21-AUG-2023 10:14
InstruID : voa6.i
LabSampID : VBLKW-230821

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082121.D Page 1
Report Date: 22-Aug-2023 09:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082121.D
Lab Smp Id: HS23081216-13MS Client Smp ID: HS23081216-13MS
Inj Date : 21-AUG-2023 15:51
Operator : PC Inst ID: voa6.i
Smp Info : HS23081216-13MS;HS23081216-13MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 22:09 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 20 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	677527	50.0000	
135 1,4-Dioxane	88	5.606	5.602	(1.341)	25699	298.413	298.41(a)
140 1,3-Butadiene	54	1.167	1.171	(0.279)	143791	20.5999	20.59
25 Methacrylonitrile	41	3.848	3.825	(0.920)	120225	17.7921	17.79
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	364599	343.304	343.30
13 Acetonitrile	39	2.202	2.202	(0.527)	193764	185.442	185.44
14 Allyl Chloride	41	2.202	2.202	(0.527)	359393	17.4120	17.41
4 Propionitrile	54	3.660	3.656	(0.875)	168428	178.507	178.50(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	42804	18.5953	18.59
194 Acetaldehyde	44	1.216	1.216	(0.291)	43180	57.2876	57.28
23 Chloroprene	53	1.775	1.775	(0.425)	59637	20.8069	20.80(M)
130 Ethyl Acetate	43	3.664	3.664	(0.876)	141466	18.1905	18.19
40 Methyl Methacrylate	41	5.610	5.609	(1.342)	109005	17.4862	17.48
49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	181645	19.9569	19.95
131 Methyl Acrylate	55	3.698	3.694	(0.884)	112083	16.7449	16.74
132 n-Butanol	56	5.268	5.261	(1.260)	47942	317.223	317.22(a)
136 n-Hexane	57	2.768	2.772	(0.662)	173670	28.8477	28.84
139 Diethyl ether	59	1.760	1.760	(0.421)	107442	17.9670	17.96
142 Tetrahydrofuran	42	3.851	3.851	(0.921)	42578	32.2154	32.21
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	242563	21.9851	21.98

156	Diisopropyl ether	45	3.004	3.004 (0.719)	440586	18.0555	18.05
162	Butyl acrylate	55	8.252	8.249 (1.076)	290370	19.5264	19.52

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082121.D Page 2
Report Date: 22-Aug-2023 09:33

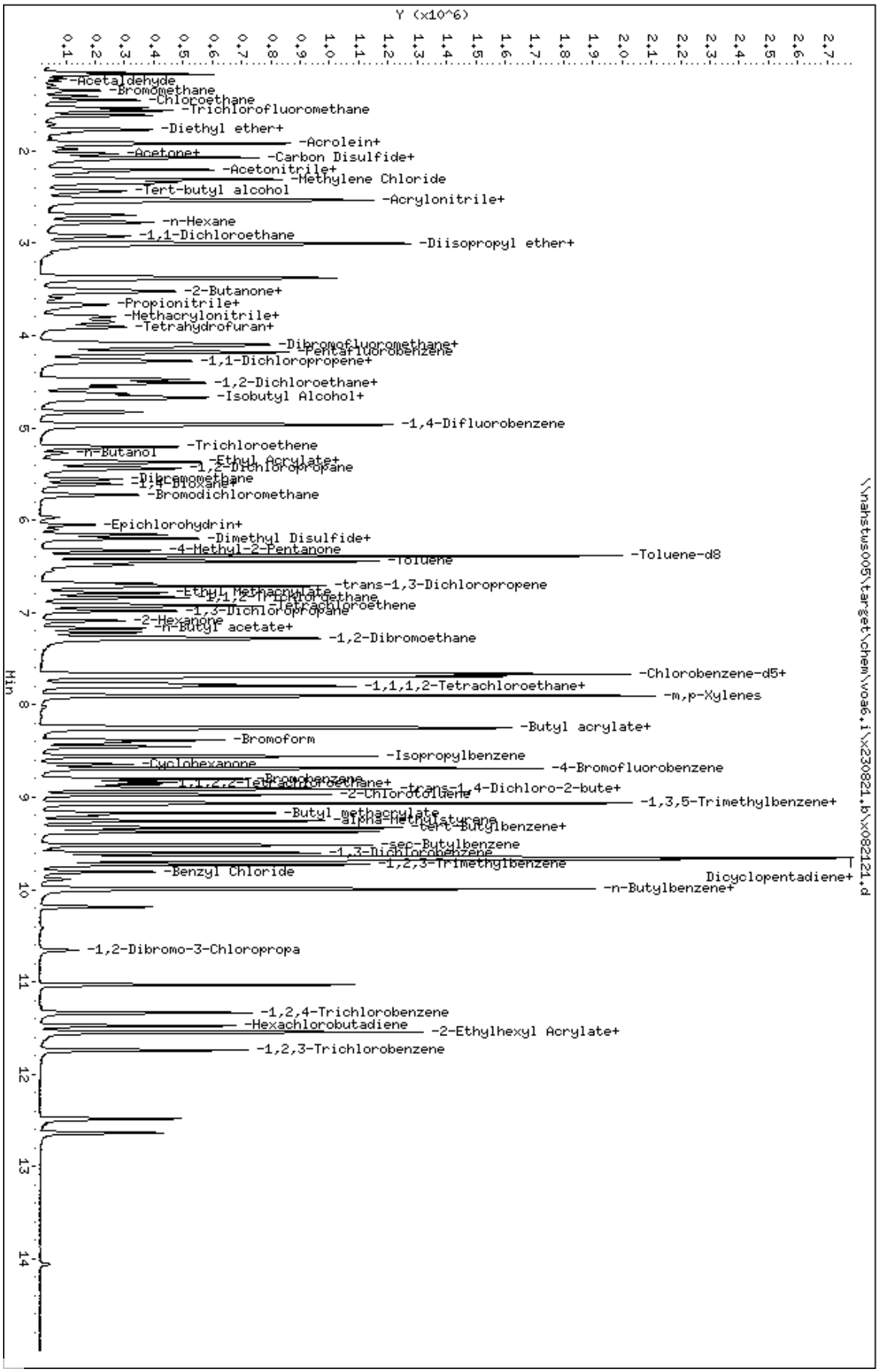
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	167 Ethanol	45	1.707	1.711	(0.408)	29455	351.333	351.33
	200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	259521	21.5904	21.59
	182 Epichlorohydrin	57	6.097	6.093	(1.228)	40298	66.3239	66.32
	164 Dicyclopentadiene	66	9.681	9.680	(1.002)	667740	24.3665	24.36
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	520596	21.6224	21.62
	205 2-Ethylhexyl Acrylate	55	11.547	11.544	(1.196)	229434	21.6518	21.65
	86 Benzyl Chloride	91	9.808	9.804	(1.279)	234094	17.9137	17.91
	134 Cyclohexanone	55	8.642	8.642	(0.895)	102138	309.208	309.20(a)
	133 Ethyl Acrylate	55	5.385	5.381	(1.288)	317933	19.8381	19.83
	163 Butyl methacrylate	41	9.171	9.167	(0.950)	219677	20.8941	20.89
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	369989	18.4378	18.43
	189 n-Butyl acetate	43	7.214	7.210	(0.941)	201889	19.2791	19.27
	2 Dichlorodifluoromethane	85	0.976	0.980	(0.234)	129847	21.2936	21.29
	3 Chloromethane	50	1.085	1.085	(0.260)	121307	18.3994	18.39
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	171231	21.0705	21.07
	6 Bromomethane	94	1.344	1.344	(0.321)	80767	18.4633	18.46
	7 Chloroethane	64	1.407	1.407	(0.337)	108445	20.3601	20.36
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	252339	21.8174	21.81
	9 Acrolein	56	1.861	1.865	(0.445)	11626	51.0413	51.04
	10 Acetone	43	1.977	1.977	(0.473)	94294	33.0495	33.04
	11 1,1-Dichloroethene	96	1.917	1.921	(0.459)	133969	20.4779	20.47
	15 Iodomethane	142	2.030	2.033	(0.485)	244020	36.1120	36.11
	16 Acrylonitrile	53	2.539	2.536	(0.607)	108928	34.5633	34.56
	17 Methylene Chloride	84	2.307	2.307	(0.552)	149920	18.2735	18.27
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	410816	17.6045	17.60
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	794082	40.8989	40.89
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	148034	19.4717	19.47
	21 Vinyl Acetate	43	3.001	3.000	(0.718)	764566	33.9980	33.99
	22 1,1-Dichloroethane	63	2.922	2.925	(0.699)	265933	18.5737	18.57
	24 2-Butanone	43	3.589	3.585	(0.858)	75175	29.9747	29.97
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	193730	20.1454	20.14
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	144048	19.7301	19.73
	28 Chloroform	83	3.904	3.908	(0.934)	243411	19.3970	19.39
	29 Bromochloromethane	128	3.799	3.795	(0.909)	79980	19.2703	19.27
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	323836	52.1504	52.15
	31 1,1,1-Trichloroethane	97	4.084	4.080	(0.977)	212054	21.0475	21.04
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	175934	22.5059	22.50
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	183743	19.4556	19.45
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	184816	22.3956	22.39
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	348787	50.4086	50.40
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	993486	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	518346	21.1823	21.18
	38 Trichloroethene	130	5.208	5.205	(1.049)	153658	21.8488	21.84
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	179363	19.6808	19.68
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	75866	32.5396	32.53
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	131604	19.0732	19.07
	44 Dibromomethane	93	5.553	5.553	(1.119)	90485	19.1893	19.18
	45 4-Methyl-2-Pentanone	43	6.326	6.325	(0.825)	249336	38.0734	38.07
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	206645	19.8152	19.81
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	912969	50.0000	
$	48 Toluene-d8	98	6.382	6.385	(0.832)	1120223	52.1377	52.13
	50 Toluene	91	6.446	6.442	(0.841)	549301	21.5927	21.59

51	trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)	160731	18.3639	18.36
52	2-Hexanone	43	7.087	7.086 (0.924)	162249	36.9090	36.90

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	106256	20.9539	20.95
54	1,3-Dichloropropane	76	6.982	6.978	(0.911)	212282	20.4783	20.47
55	Dibromochloromethane	129	7.173	7.173	(0.935)	150406	20.5515	20.55
56	Tetrachloroethene	164	6.925	6.925	(0.903)	128984	24.3942	24.39
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	130730	21.1037	21.10
58	1-Chlorohexane	55	7.694	7.694	(1.550)	135155	23.5128	23.51
59	Chlorobenzene	112	7.690	7.690	(1.003)	373068	21.2832	21.28
60	1,1,1,2-Tetrachloroethane	131	7.773	7.772	(1.014)	143934	21.2575	21.25
61	Ethylbenzene	106	7.799	7.795	(1.017)	195849	22.6242	22.62
62	m,p-Xylenes	106	7.900	7.900	(1.030)	496317	44.8195	44.81
63	o-Xylene	106	8.241	8.237	(1.075)	239384	21.9368	21.93
64	Styrene	104	8.256	8.256	(1.077)	401251	22.1114	22.11
66	Bromoform	173	8.410	8.406	(1.097)	101698	20.5953	20.59
67	Isopropylbenzene	105	8.560	8.556	(1.116)	634240	23.3885	23.38
68	1,1,2,2-Tetrachloroethane	83	8.833	8.833	(0.915)	164700	19.5058	19.50
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	425336	47.2116	47.21
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	518716	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.860	(0.918)	168686	27.1658	27.16
73	n-Propylbenzene	91	8.908	8.908	(0.922)	738498	24.0789	24.07
74	Bromobenzene	156	8.803	8.803	(0.912)	181102	21.8440	21.84
75	1,3,5-Trimethylbenzene	105	9.066	9.062	(0.939)	509661	22.7311	22.73
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	438346	22.3192	22.31
77	4-Chlorotoluene	91	9.070	9.066	(0.939)	505061	22.3494	22.34
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	463520	24.1303	24.13
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	516307	22.3618	22.36
81	sec-Butylbenzene	105	9.519	9.516	(0.986)	653213	24.8054	24.80
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	565532	23.7518	23.75
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	320677	21.7177	21.71
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	346754	21.9277	21.92
87	n-Butylbenzene	91	9.992	9.988	(1.035)	499946	22.7156	22.71
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	314296	21.0868	21.08
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.104)	26493	18.5528	18.55
90	1,2,4-Trichlorobenzene	180	11.338	11.334	(1.174)	210715	21.3639	21.36
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	104842	30.3717	30.37
92	Naphthalene	128	11.544	11.540	(1.195)	465051	18.8904	18.89
93	1,2,3-Trichlorobenzene	180	11.739	11.738	(1.215)	193683	20.1511	20.15
M 94	1,2-Dichloroethylene (total)	96				292082	39.2018	39.20
M 95	Xylenes (total)	106				735701	66.7563	66.75
141	Cyclohexane	56	4.121	4.118	(0.986)	196150	22.6791	22.67
138	Freon TF	101	1.917	1.921	(0.459)	145930	23.4983	23.49
147	Methylcyclohexane	55	5.385	5.381	(1.085)	317933	21.3022	21.30
146	Methyl Acetate	43	2.236	2.232	(0.535)	107463	17.6509	17.65
148	Tert-Butyl alcohol	59	2.434	2.434	(0.582)	295408	353.416	353.41
149	Isopropyl Alcohol	45	2.101	2.097	(0.502)	166902	342.565	342.56

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Instrument: voa6,i
Operator: PC
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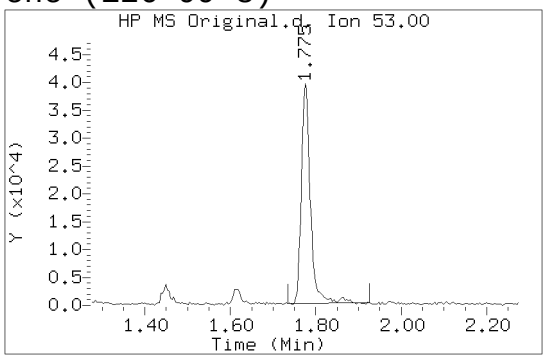
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Chloroprene (126-99-8)

Reason Code:

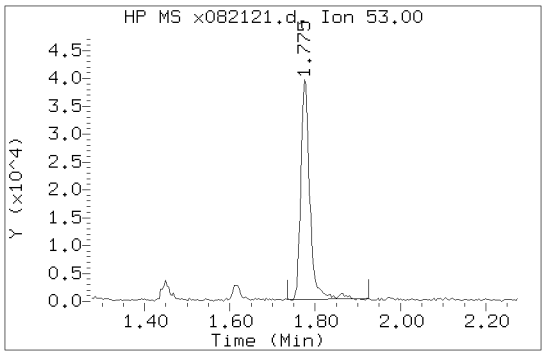
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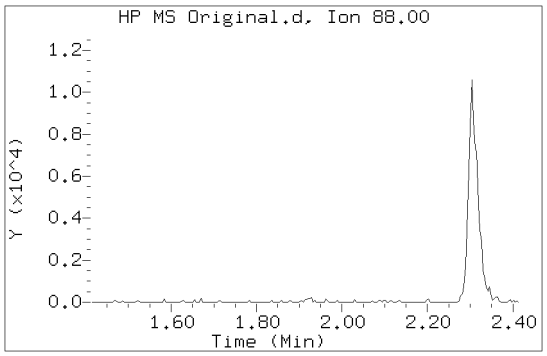
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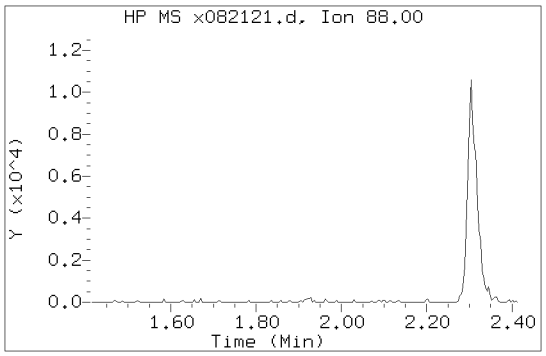
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082122.D Page 1
Report Date: 22-Aug-2023 09:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082122.D
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Als bottle: 20 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.181	(1.000)	694999	50.0000	
135 1,4-Dioxane	88	5.602	5.602	(1.341)	28887	326.999	326.99(a)
140 1,3-Butadiene	54	1.167	1.171	(0.280)	141806	19.8048	19.80
25 Methacrylonitrile	41	3.844	3.825	(0.920)	121283	17.4975	17.49
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	384701	353.126	353.12
13 Acetonitrile	39	2.202	2.202	(0.527)	194481	181.449	181.44
14 Allyl Chloride	41	2.202	2.202	(0.527)	364611	17.2207	17.22
4 Propionitrile	54	3.660	3.656	(0.876)	170932	176.607	176.60(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	44238	18.0623	18.06
194 Acetaldehyde	44	1.216	1.216	(0.291)	45194	58.6278	58.62
23 Chloroprene	53	1.775	1.775	(0.425)	58174	19.7862	19.78(M)
130 Ethyl Acetate	43	3.668	3.664	(0.878)	144235	18.0803	18.08
40 Methyl Methacrylate	41	5.609	5.609	(1.343)	106490	16.6533	16.65
49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	175704	18.5067	18.50
131 Methyl Acrylate	55	3.698	3.694	(0.885)	108793	15.8448	15.84
132 n-Butanol	56	5.272	5.261	(1.262)	49151	317.085	317.08(a)
136 n-Hexane	57	2.772	2.772	(0.664)	170937	27.7305	27.73
139 Diethyl ether	59	1.760	1.760	(0.421)	110128	17.9532	17.95
142 Tetrahydrofuran	42	3.855	3.851	(0.923)	43033	31.7411	31.74
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	238741	19.6098	19.60

156	Diisopropyl ether	45	3.004	3.004 (0.719)	435797	17.4103	17.41
162	Butyl acrylate	55	8.252	8.249 (1.076)	297128	18.7790	18.77

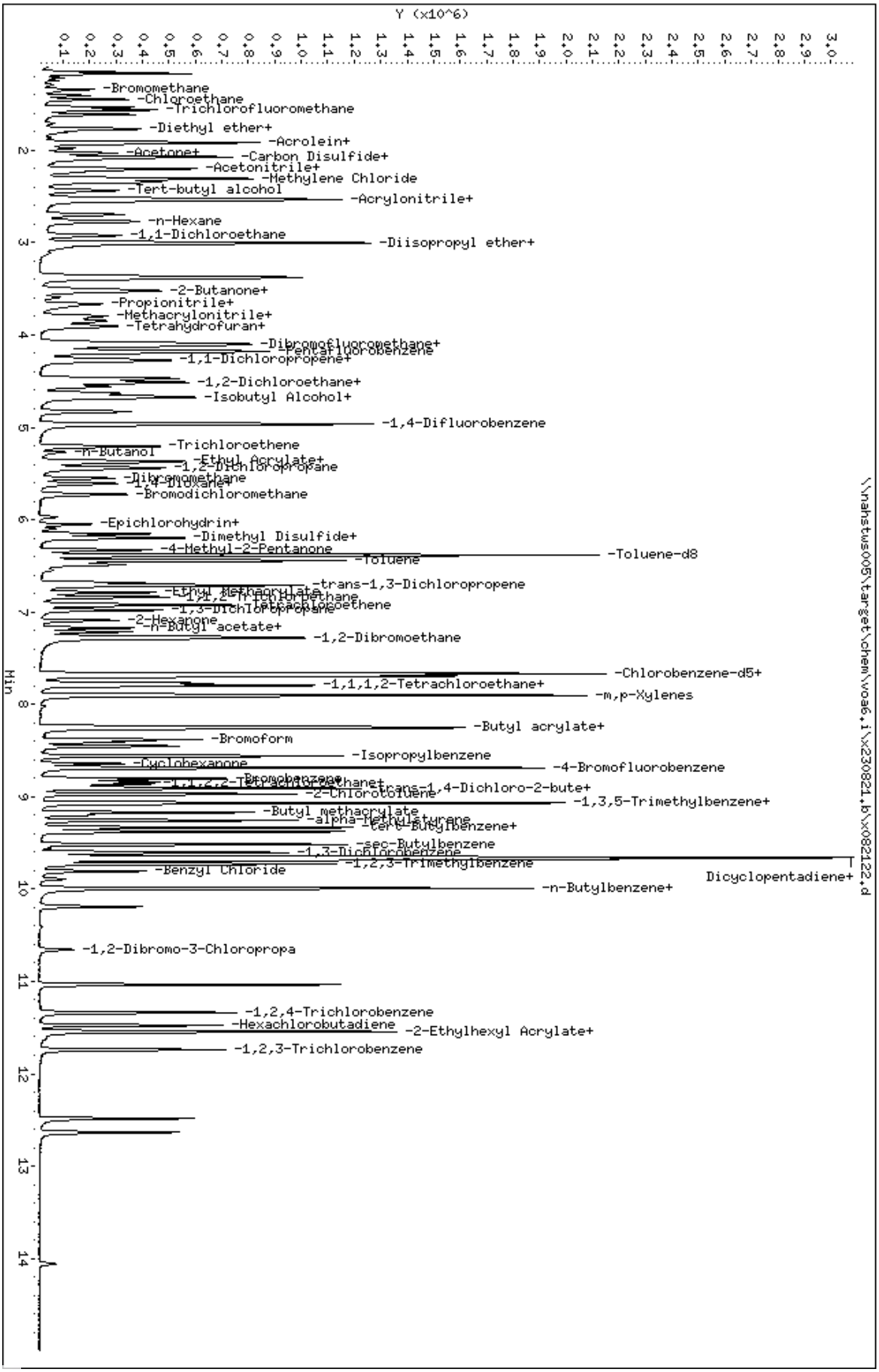
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	167 Ethanol	45	1.711	1.711	(0.410)	30457	354.354	354.35
	200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	262644	20.5359	20.53
	182 Epichlorohydrin	57	6.097	6.093	(1.228)	44044	69.4945	69.49
	164 Dicyclopentadiene	66	9.680	9.680	(1.002)	666828	22.0627	22.06
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	520537	19.5928	19.59
	205 2-Ethylhexyl Acrylate	55	11.547	11.544	(1.196)	240044	20.5290	20.52
	86 Benzyl Chloride	91	9.808	9.804	(1.279)	237193	17.0591	17.05
	134 Cyclohexanone	55	8.642	8.642	(0.895)	104661	287.136	287.13(a)
	133 Ethyl Acrylate	55	5.385	5.381	(1.289)	323467	19.6760	19.67
	163 Butyl methacrylate	41	9.171	9.167	(0.950)	224317	19.3349	19.33
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	387380	18.5069	18.50
	189 n-Butyl acetate	43	7.214	7.210	(0.941)	206551	18.5379	18.53
	2 Dichlorodifluoromethane	85	0.976	0.980	(0.234)	127571	20.4226	20.42
	3 Chloromethane	50	1.081	1.085	(0.259)	124357	18.3879	18.38
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	167722	20.1199	20.11
	6 Bromomethane	94	1.340	1.344	(0.321)	80428	17.9236	17.92
	7 Chloroethane	64	1.407	1.407	(0.337)	101579	18.5916	18.59
	8 Trichlorofluoromethane	101	1.565	1.565	(0.375)	248831	20.9732	20.97
	9 Acrolein	56	1.861	1.865	(0.446)	14395	62.1773	62.17
	10 Acetone	43	1.977	1.977	(0.473)	93368	31.7427	31.74
	11 1,1-Dichloroethene	96	1.921	1.921	(0.460)	134148	19.9898	19.98
	15 Iodomethane	142	2.030	2.033	(0.486)	266649	38.0856	38.08
	16 Acrylonitrile	53	2.539	2.536	(0.608)	111714	34.5561	34.55
	17 Methylene Chloride	84	2.307	2.307	(0.552)	148678	17.6665	17.66
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.608)	414621	17.3208	17.32
	19 Carbon Disulfide	76	2.075	2.075	(0.497)	769545	38.6388	38.63
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	145483	18.6550	18.65
	21 Vinyl Acetate	43	3.004	3.000	(0.719)	765312	33.1756	33.17
	22 1,1-Dichloroethane	63	2.922	2.925	(0.699)	263362	17.9318	17.93
	24 2-Butanone	43	3.589	3.585	(0.859)	84298	32.7673	32.76
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	187143	18.9702	18.97
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.845)	142393	19.0131	19.01
	28 Chloroform	83	3.904	3.908	(0.935)	238966	18.5641	18.56
	29 Bromochloromethane	128	3.795	3.795	(0.908)	77843	18.2839	18.28
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	330238	51.8395	51.83
	31 1,1,1-Trichloroethane	97	4.084	4.080	(0.978)	213121	20.6216	20.62
	32 1,1-Dichloropropene	75	4.282	4.279	(0.863)	172709	21.1806	21.18
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	184555	18.7343	18.73
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	184820	21.4708	21.47
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	358844	50.5616	50.56
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1036298	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	507385	19.8778	19.87
	38 Trichloroethene	130	5.208	5.205	(1.049)	153247	20.8902	20.89
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	176478	18.5642	18.56
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	77741	31.9662	31.96
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	136337	18.9429	18.94
	44 Dibromomethane	93	5.553	5.553	(1.119)	92646	18.8359	18.83
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	252102	36.1803	36.18
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	203556	18.7126	18.71
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	971397	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1166835	51.0407	51.04
	50 Toluene	91	6.445	6.442	(0.841)	541952	20.0224	20.02

51	trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)	165073	18.0808	18.08
52	2-Hexanone	43	7.090	7.086 (0.925)	170429	36.4378	36.43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
53	1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	107302	19.8874	19.88
54	1,3-Dichloropropane	76	6.981	6.978	(0.911)	212038	19.2244	19.22
55	Dibromochloromethane	129	7.173	7.173	(0.935)	150416	19.3166	19.31
56	Tetrachloroethene	164	6.925	6.925	(0.903)	126160	22.4249	22.42
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	130728	19.8340	19.83
58	1-Chlorohexane	55	7.694	7.694	(1.550)	131295	21.8977	21.89
59	Chlorobenzene	112	7.690	7.690	(1.003)	372867	19.9922	19.99
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	141354	19.6208	19.62
61	Ethylbenzene	106	7.795	7.795	(1.017)	194383	21.1042	21.10
62	m,p-Xylenes	106	7.900	7.900	(1.030)	495337	42.0405	42.04
63	o-Xylene	106	8.241	8.237	(1.075)	236382	20.3588	20.35
64	Styrene	104	8.256	8.256	(1.077)	390010	20.1993	20.19
66	Bromoform	173	8.410	8.406	(1.097)	101676	19.3524	19.35
67	Isopropylbenzene	105	8.556	8.556	(1.116)	624021	21.6275	21.62
68	1,1,2,2-Tetrachloroethane	83	8.833	8.833	(0.915)	166545	17.8748	17.87
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	451689	47.1216	47.12
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	572386	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.860	(0.918)	180193	26.2980	26.29
73	n-Propylbenzene	91	8.908	8.908	(0.922)	733961	21.6871	21.68
74	Bromobenzene	156	8.803	8.803	(0.912)	180934	19.7774	19.77
75	1,3,5-Trimethylbenzene	105	9.066	9.062	(0.939)	506064	20.4544	20.45
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	432149	19.9405	19.94
77	4-Chlorotoluene	91	9.069	9.066	(0.939)	502237	20.1406	20.14
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	459816	21.6929	21.69
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	508365	19.9533	19.95
81	sec-Butylbenzene	105	9.519	9.516	(0.986)	648138	22.3049	22.30
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	569452	21.6739	21.67
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	324197	19.8973	19.89
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	351440	20.1402	20.14
87	n-Butylbenzene	91	9.992	9.988	(1.035)	494748	20.5800	20.58
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	311097	18.9151	18.91
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.104)	27605	17.5189	17.51
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.174)	210499	19.3409	19.34
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	107846	28.4252	28.42
92	Naphthalene	128	11.540	11.540	(1.195)	486602	17.9124	17.91
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	201060	18.9572	18.95
M 94	1,2-Dichloroethylene (total)	96				287876	37.6682	37.66
M 95	Xylenes (total)	106				731719	62.3993	62.39
141	Cyclohexane	56	4.118	4.118	(0.986)	206935	23.2723	23.27
138	Freon TF	101	1.917	1.921	(0.459)	142947	22.4905	22.49
147	Methylcyclohexane	55	5.385	5.381	(1.085)	323467	20.7776	20.77
146	Methyl Acetate	43	2.236	2.232	(0.535)	106215	17.0074	17.00
148	Tert-Butyl alcohol	59	2.438	2.434	(0.584)	299281	348.888	348.88
149	Isopropyl Alcohol	45	2.101	2.097	(0.503)	172260	344.753	344.75

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\nahstus005\target\chem\voa6.i\x230821.b\x082122.d
Date : 21-AUG-2023 16:11
Client ID: HS23081216-13MSD
Sample Info: HS23081216-13MSD;HS23081216-13MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

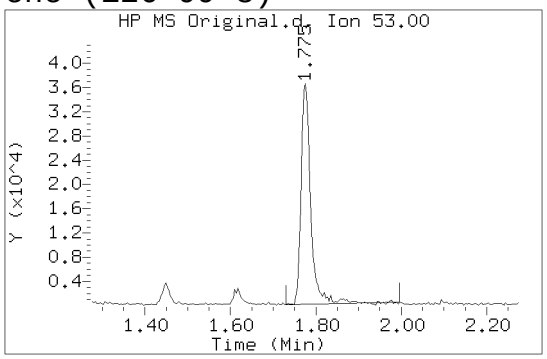
Data File : \\nahstws005\target\chem\voa6.i\x230821.b\x082122.d
Inj Date : 21-AUG-2023 16:11
InstruID : voa6.i
LabSampID : HS23081216-13MSD

Chloroprene (126-99-8)

Reason Code:

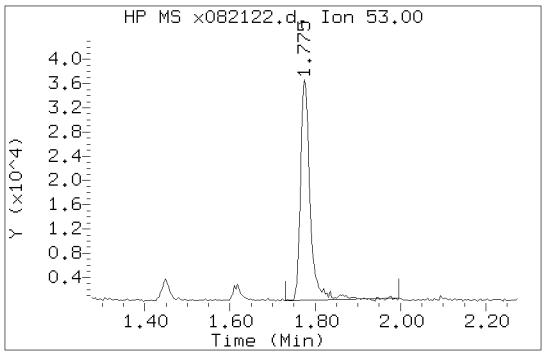
BEFORE

MASS
53
AREA
58174
HEIGHT
36390
22-Aug-2023
10:47
firat
tastan



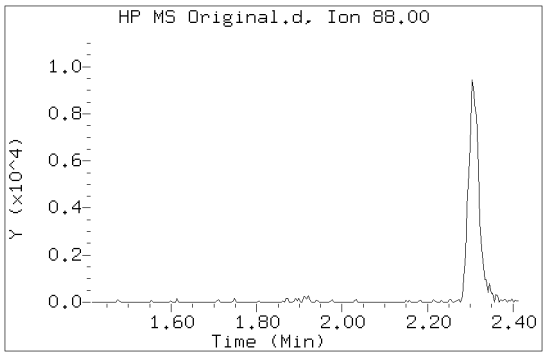
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AREA
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HEIGHT
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22-Aug-2023
10:47
firat
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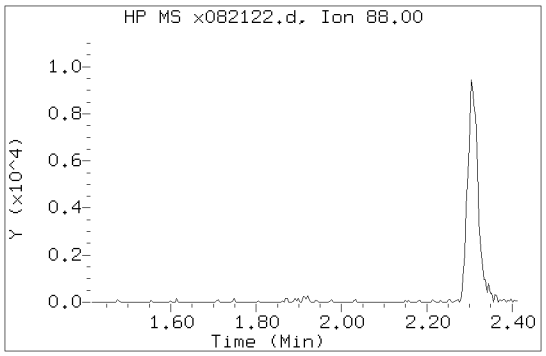
BEFORE

MASS
88
AREA
0
HEIGHT
0
22-Aug-2023
10:47
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
22-Aug-2023
10:47
firat
tastan



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082126.D Page 1
Report Date: 22-Aug-2023 09:34

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082126.D
Lab Smp Id: HS23081040-02 Client Smp ID: HS23081040-02
Inj Date : 21-AUG-2023 17:33
Operator : PC Inst ID: voa6.i
Smp Info : HS23081040-02;HS23081040-02;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 22:09 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	674968	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.981)	321341	51.9415	51.94
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	354284	51.4190	51.41
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	980744	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	904131	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1115297	52.4159	52.41
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	396756	44.4860	44.48
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	490217	50.0000	

01250513

Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082126.d

Page 1

Date : 21-AUG-2023 17:33

Client ID: HS23081040-02

Instrument: voa6.i

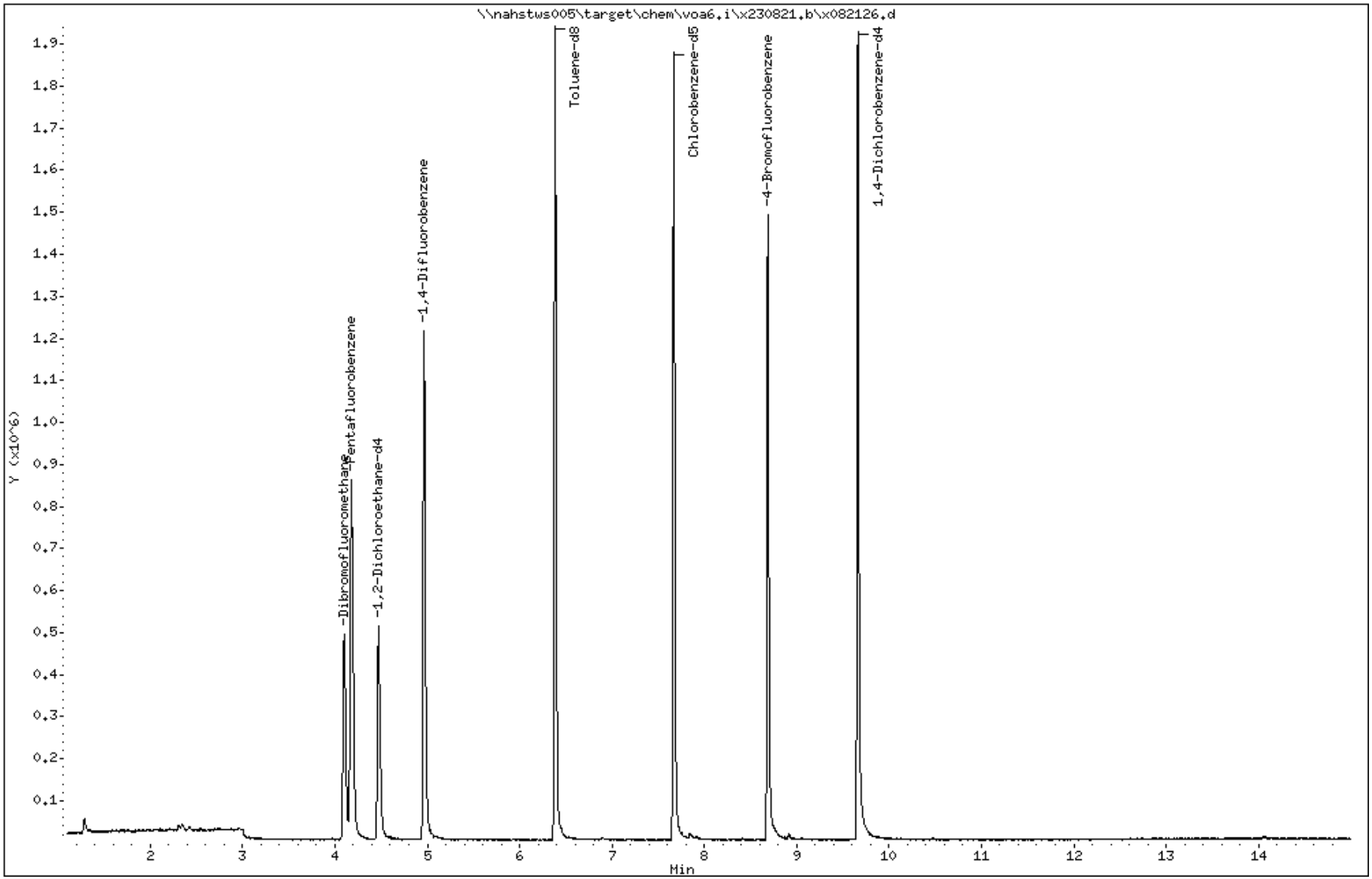
Sample Info: HS23081040-02;HS23081040-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\nahstws005\target\chem\voa6.i\x230821.b\x082126.d
Inj Date : 21-AUG-2023 17:33
InstruID : voa6.i
LabSampID : HS23081040-02

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082129.D
Lab Smp Id: HS23081040-01 Client Smp ID: HS23081040-01
Inj Date : 21-AUG-2023 18:34
Operator : PC Inst ID: voa6.i
Smp Info : HS23081040-01;HS23081040-01;;;
Misc Info : V6;WATER;0;10;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 22:09 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 27
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	664070	50.0000	
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	71778	9.01149	90.11
	11 1,1-Dichloroethene	96	1.917	1.921	(0.459)	36567	5.70275	57.02
	17 Methylene Chloride	84	2.307	2.307	(0.552)	2683436	333.708	3337.07(A)
	22 1,1-Dichloroethane	63	2.929	2.925	(0.701)	15123	1.07765	10.77(a)
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	1707465	238.609	2386.09(A)
	28 Chloroform	83	3.911	3.908	(0.935)	14582	1.18556	11.85(a)
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	314353	51.6410	51.64
	33 1,2-Dichloroethane	62	4.564	4.556	(0.919)	31647	3.41198	34.11(a)
	34 Carbon Tetrachloride	117	4.267	4.264	(0.860)	5300	0.65394	6.53(a)
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	347786	51.3018	51.30
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	975713	50.0000	
	38 Trichloroethene	130	5.205	5.205	(1.048)	3371321	488.104	4881.03(A)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	896750	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1087889	51.5486	51.54
	56 Tetrachloroethene	164	6.933	6.925	(0.904)	3690	0.71050	7.10(a)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	403487	45.6060	45.60
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	484440	50.0000	
M	94 1,2-Dichloroethylene (total)	96				1707465	238.609	2386.09
	138 Freon TF	101	1.921	1.921	(0.459)	500380	79.3710	793.70

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.

01250518

Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d

Page 1

Date : 21-AUG-2023 18:34

Client ID: HS23081040-01

Instrument: voa6.i

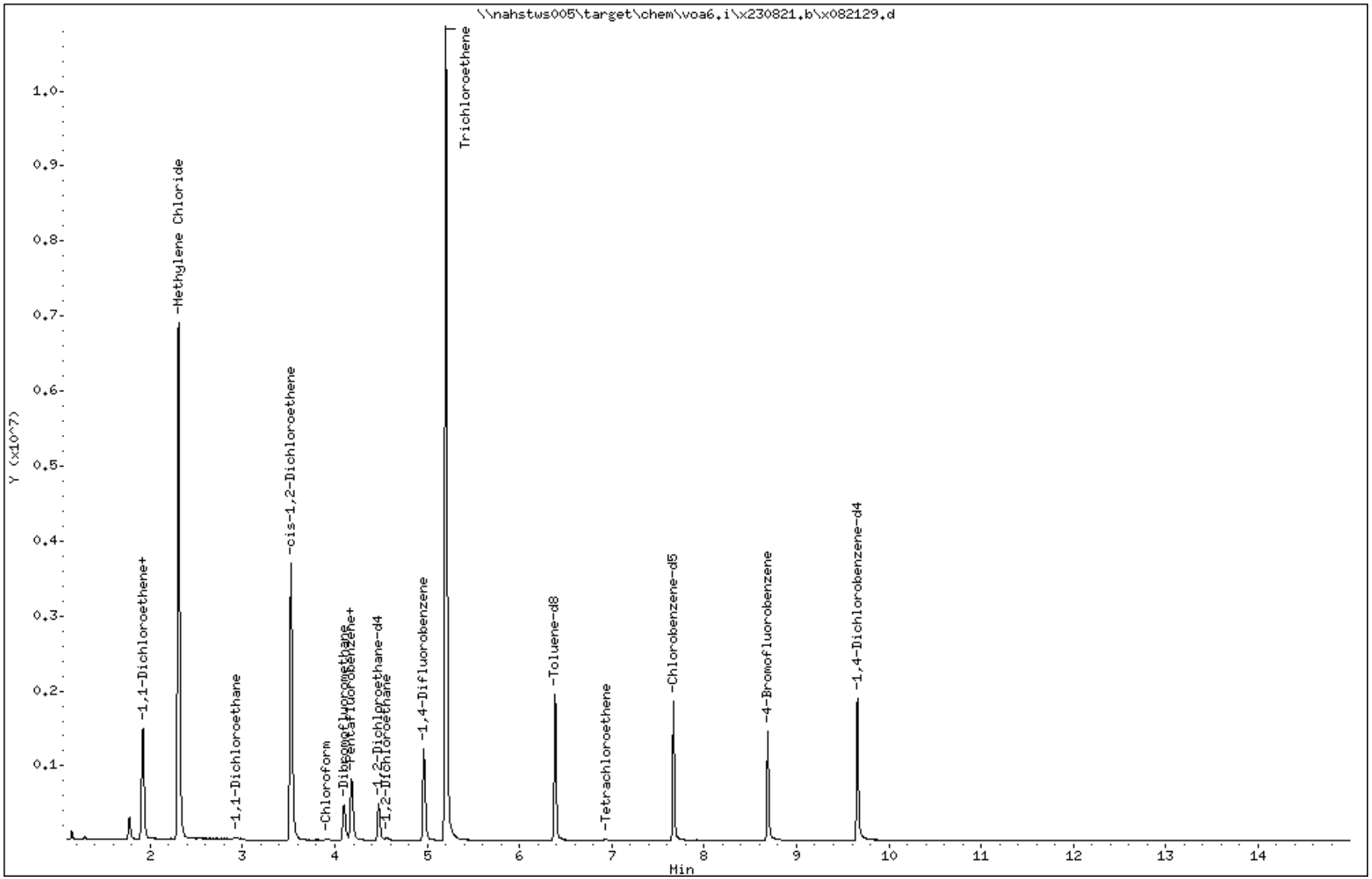
Sample Info: HS23081040-01;HS23081040-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d

Date : 21-AUG-2023 18:34

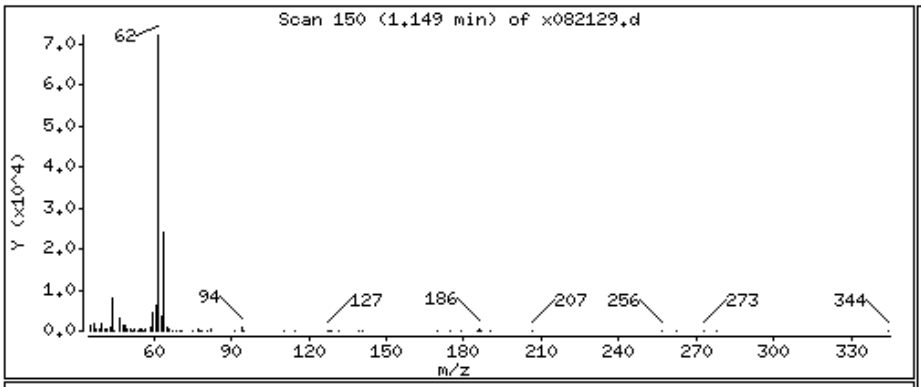
Client ID: HS23081040-01 Instrument: voa6.i

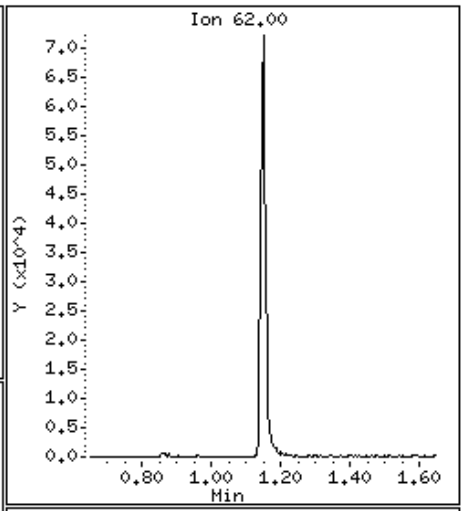
Sample Info: HS23081040-01;HS23081040-01;;;

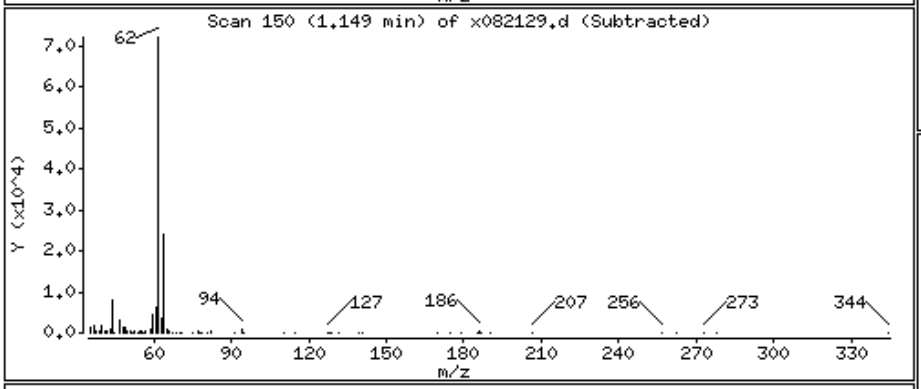
Purge Volume: 5.0 Operator: PC

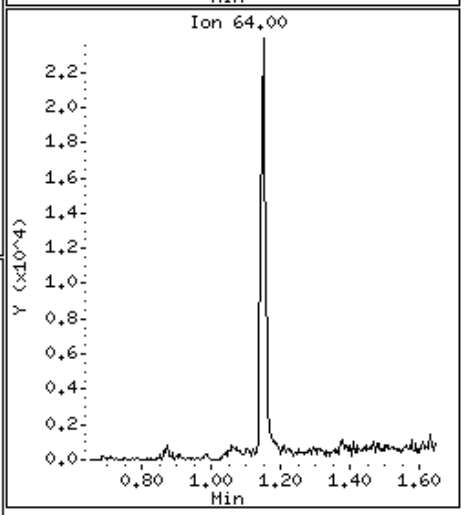
Column phase: DB624 Column diameter: 0.18

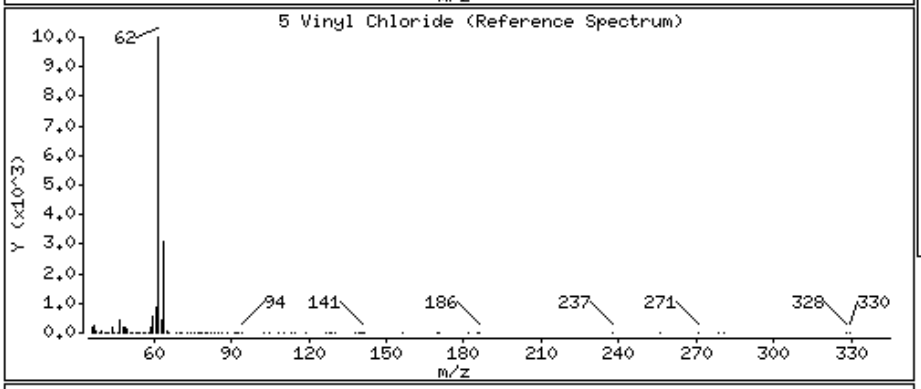
5 Vinyl Chloride Concentration: 90.11 ug/l

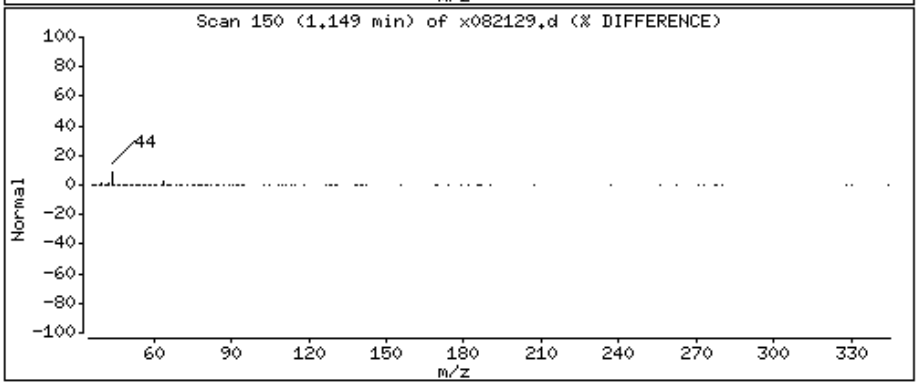












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d Page 3

Date : 21-AUG-2023 18:34

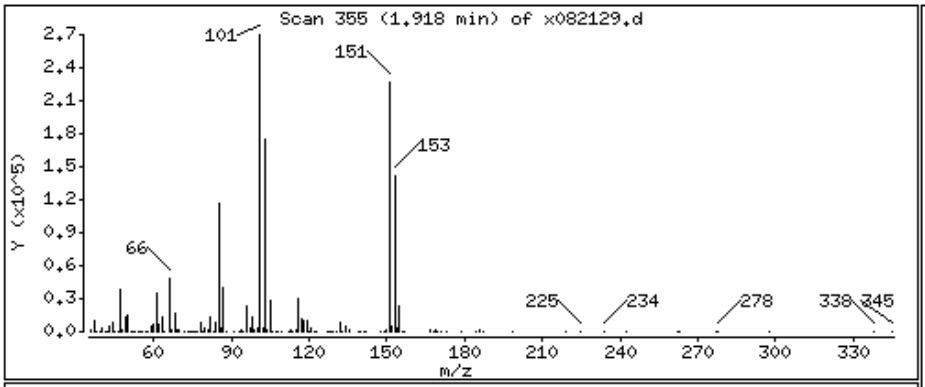
Client ID: HS23081040-01 Instrument: voa6.i

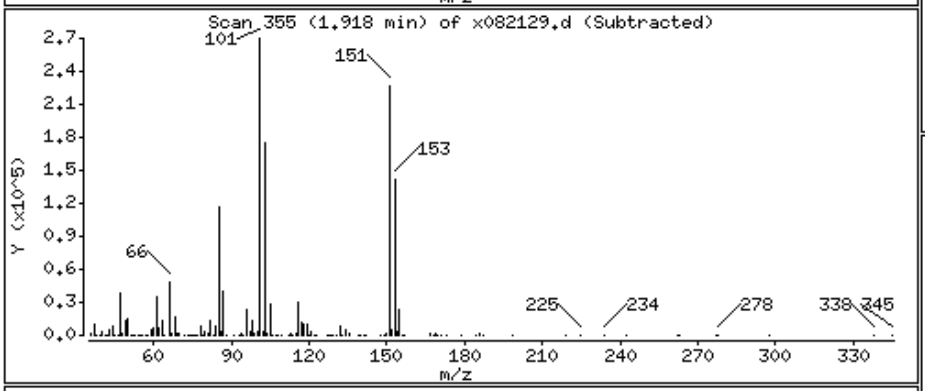
Sample Info: HS23081040-01;HS23081040-01;;;

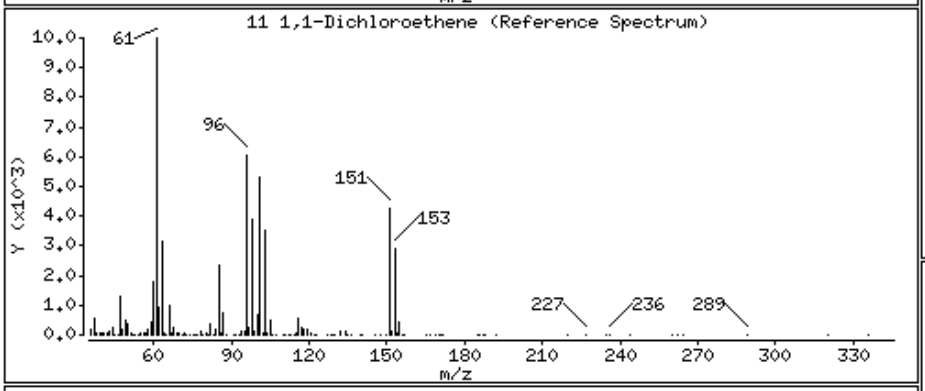
Purge Volume: 5.0 Operator: PC

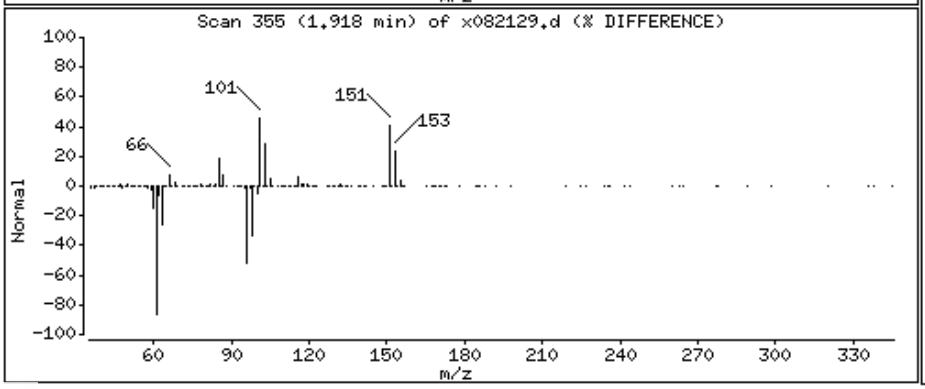
Column phase: DB624 Column diameter: 0.18

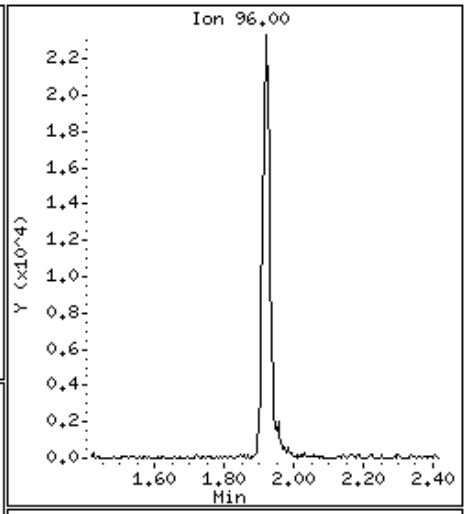
11 1,1-Dichloroethene Concentration: 57.02 ug/l

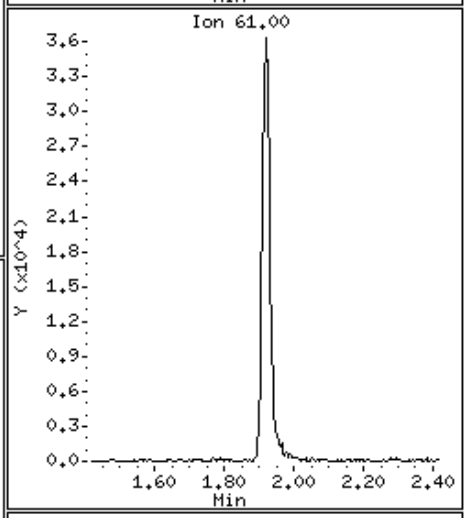


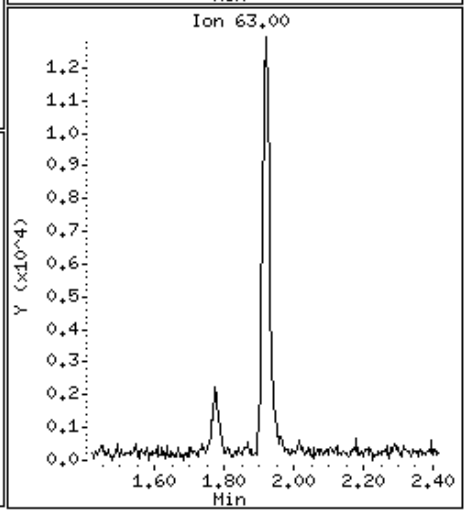












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d Page 4

Date : 21-AUG-2023 18:34

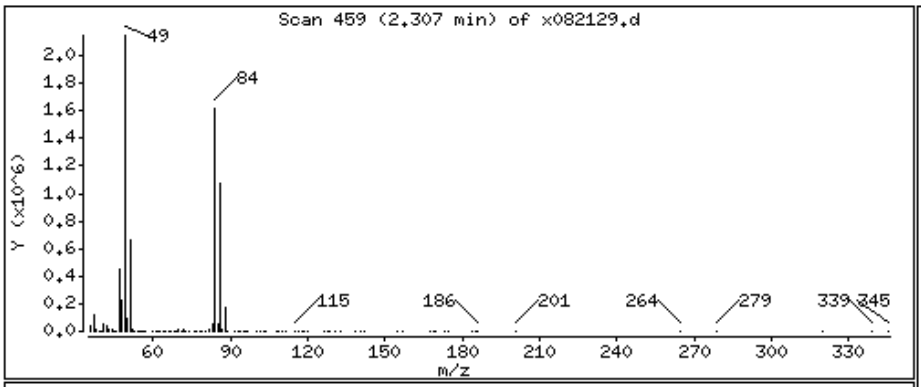
Client ID: HS23081040-01 Instrument: voa6.i

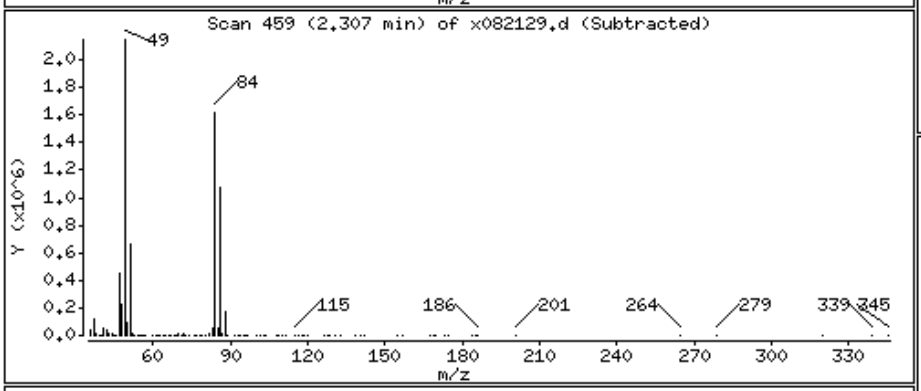
Sample Info: HS23081040-01;HS23081040-01;;;

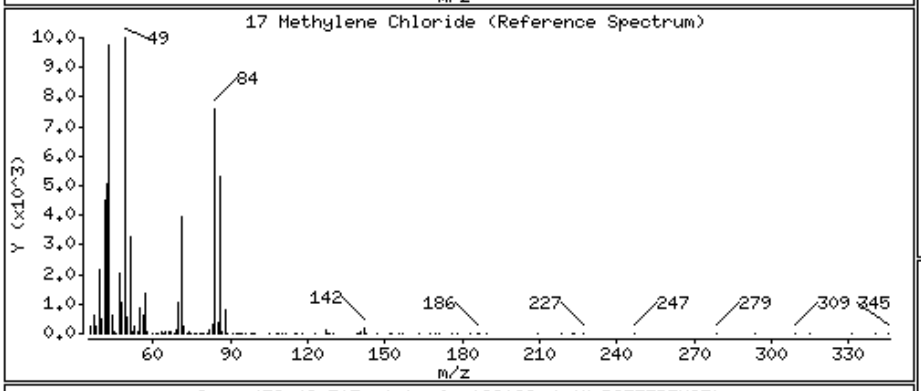
Purge Volume: 5.0 Operator: PC

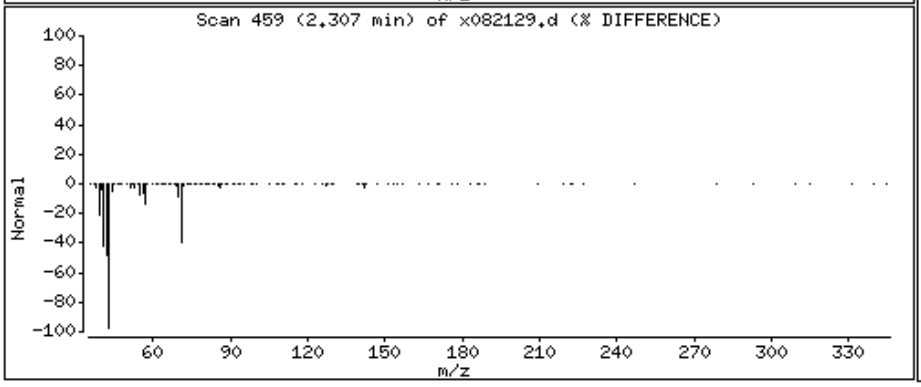
Column phase: DB624 Column diameter: 0.18

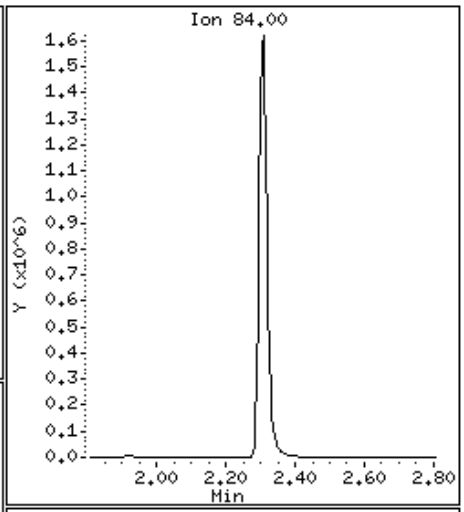
17 Methylene Chloride Concentration: 3337.07 ug/l

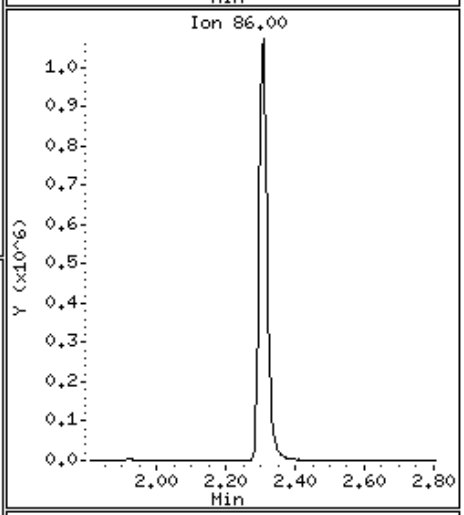


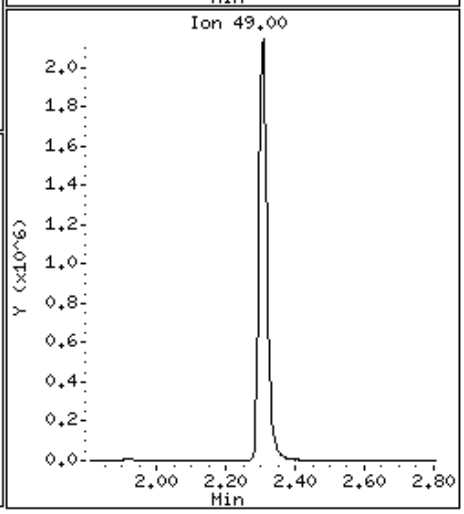












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d Page 5

Date : 21-AUG-2023 18:34

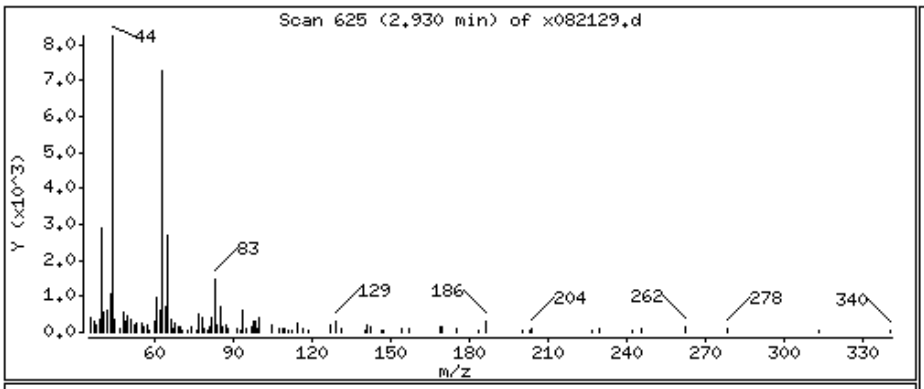
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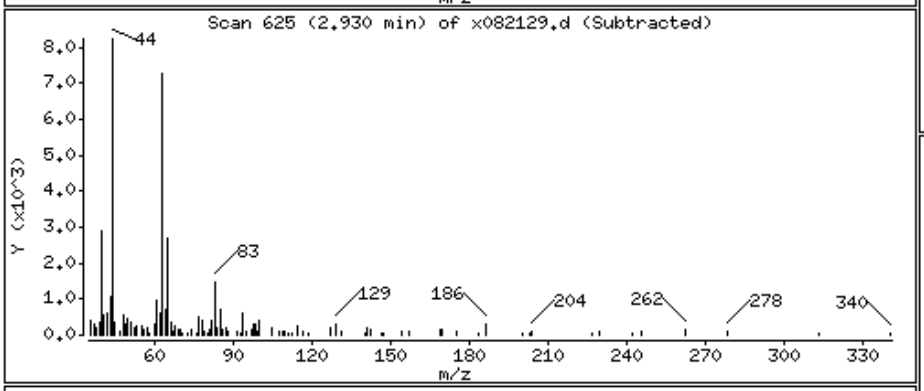
Sample Info: HS23081040-01;HS23081040-01;;;

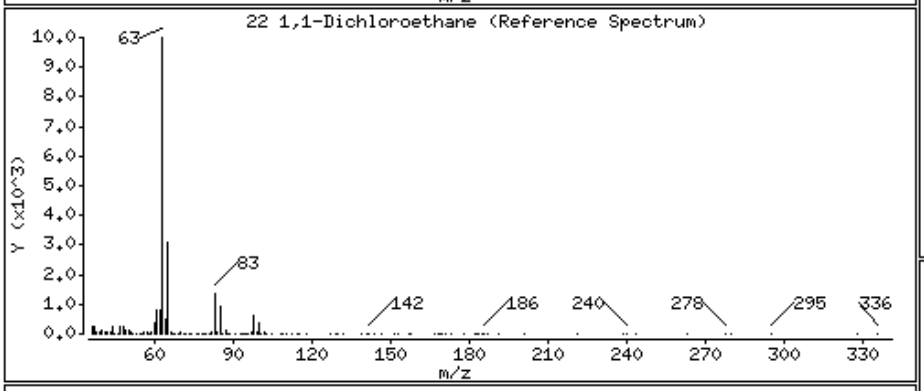
Purge Volume: 5.0 Operator: PC

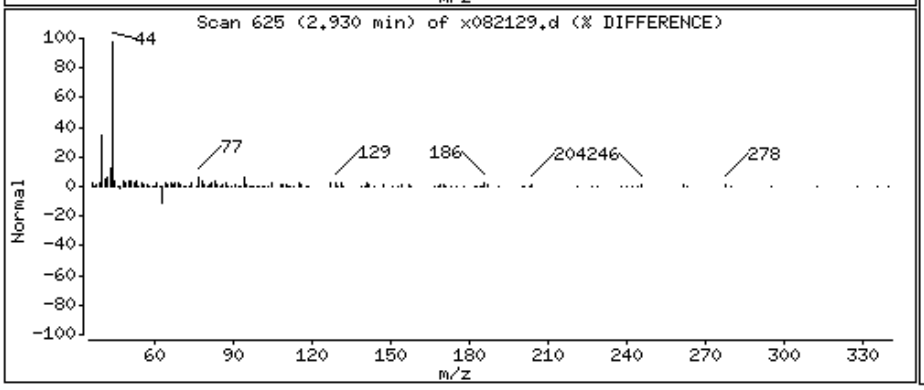
Column phase: DB624 Column diameter: 0.18

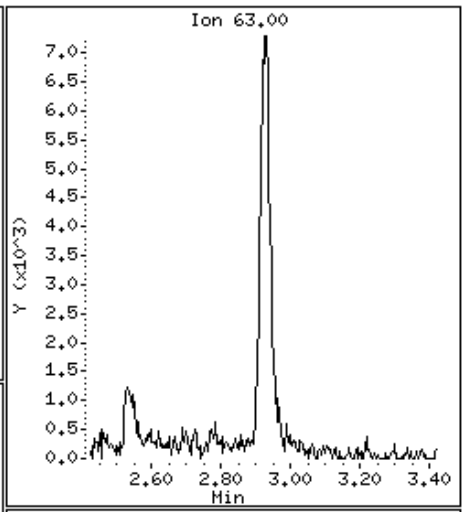
22 1,1-Dichloroethane Concentration: 10.77 ug/l

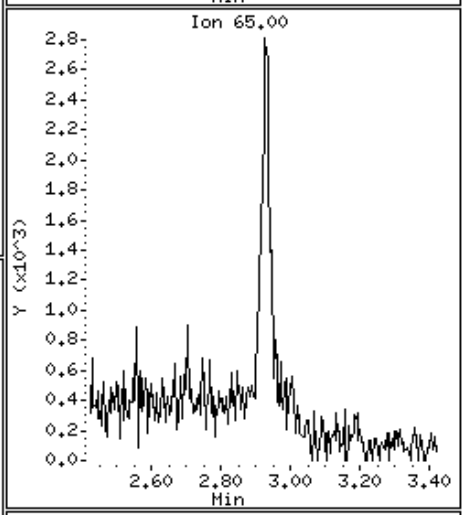


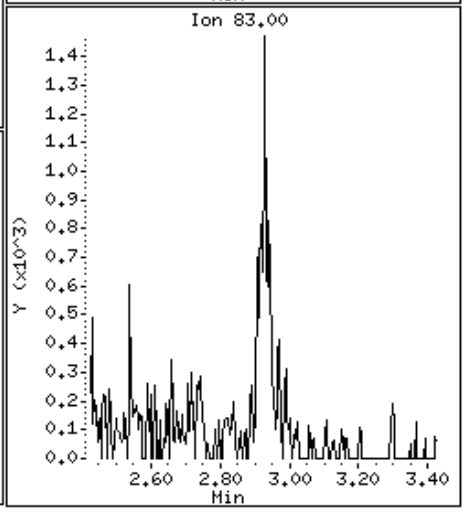












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d Page 6

Date : 21-AUG-2023 18:34

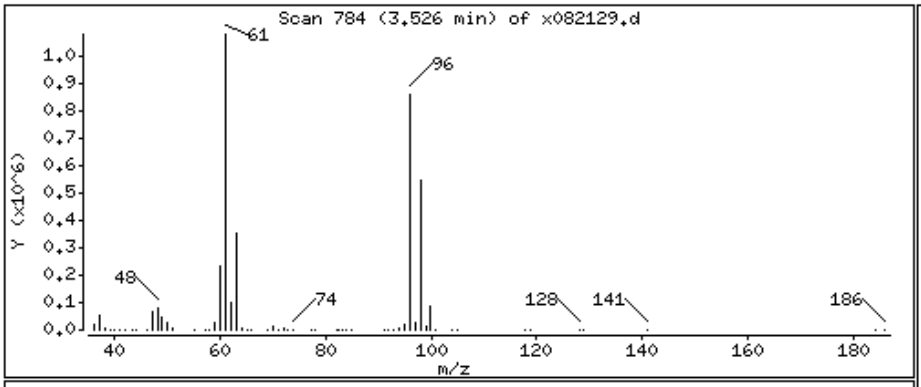
Client ID: HS23081040-01 Instrument: voa6.i

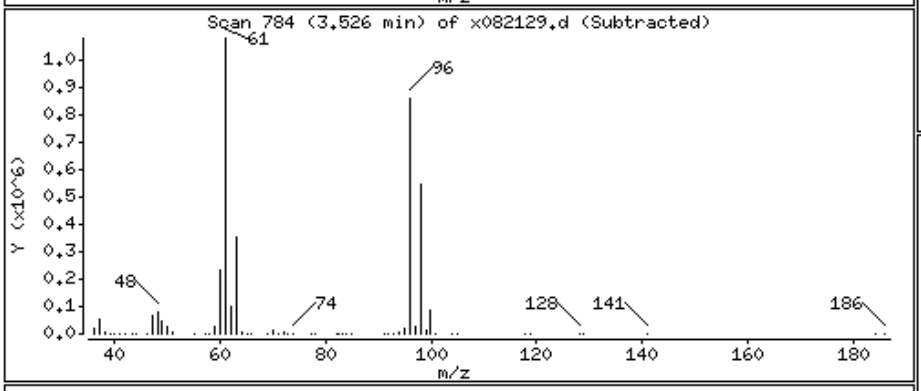
Sample Info: HS23081040-01;HS23081040-01;;;

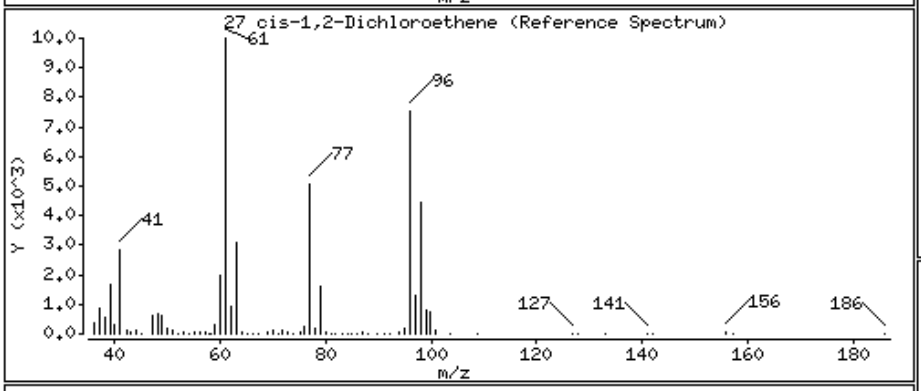
Purge Volume: 5.0 Operator: PC

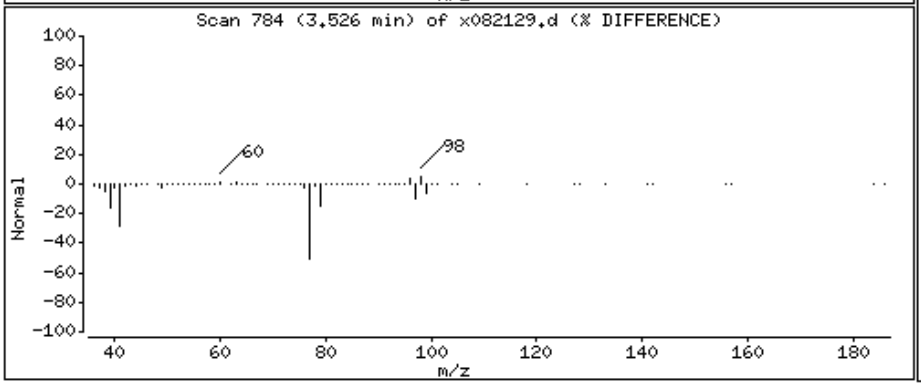
Column phase: DB624 Column diameter: 0.18

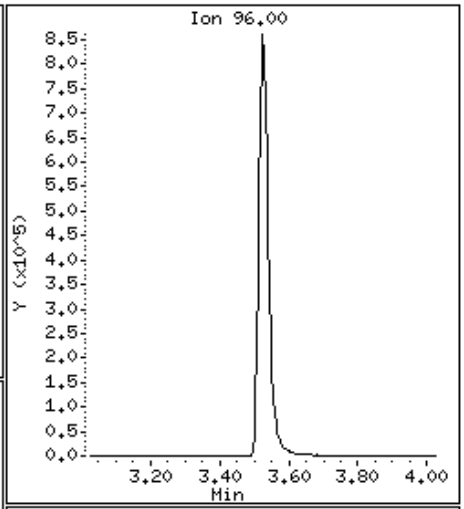
27 cis-1,2-Dichloroethene Concentration: 2386.09 ug/l

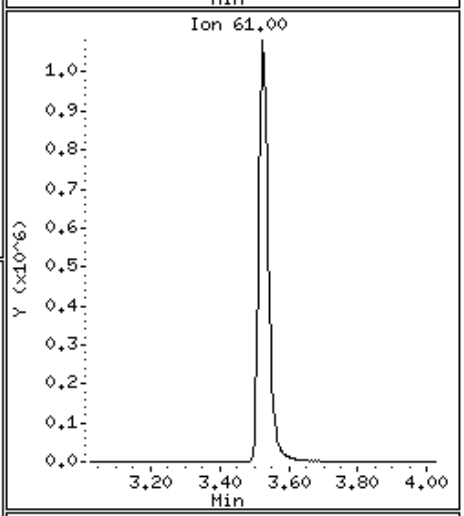


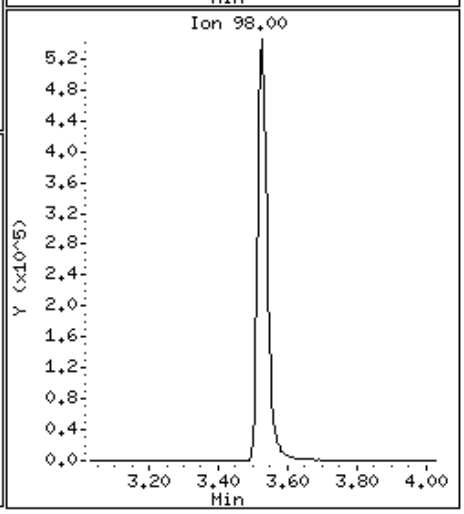












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d Page 7

Date : 21-AUG-2023 18:34

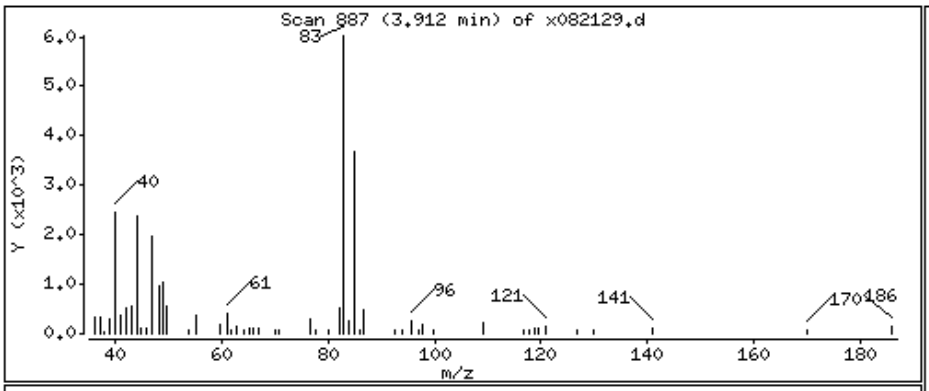
Client ID: HS23081040-01 Instrument: voa6.i

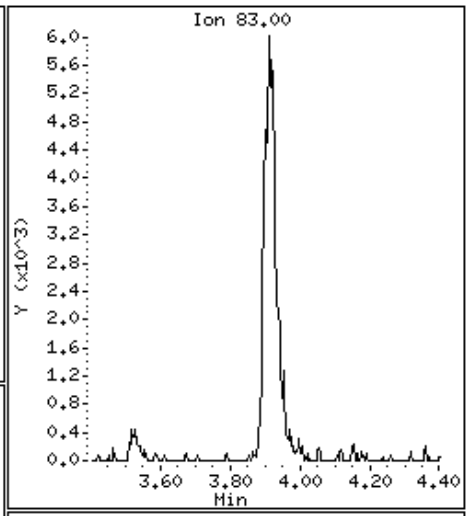
Sample Info: HS23081040-01;HS23081040-01;;;

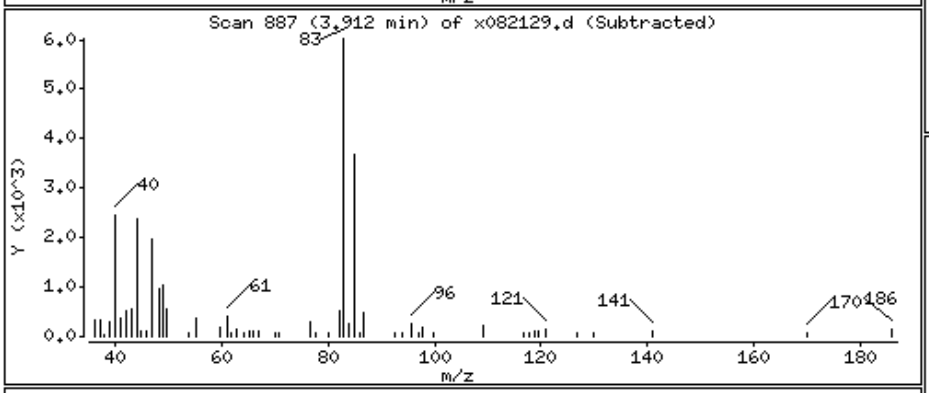
Purge Volume: 5.0 Operator: PC

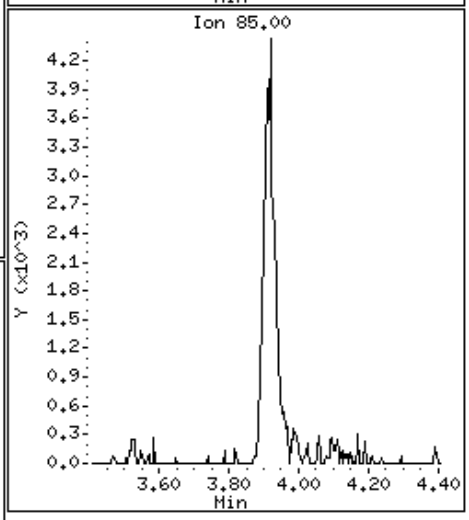
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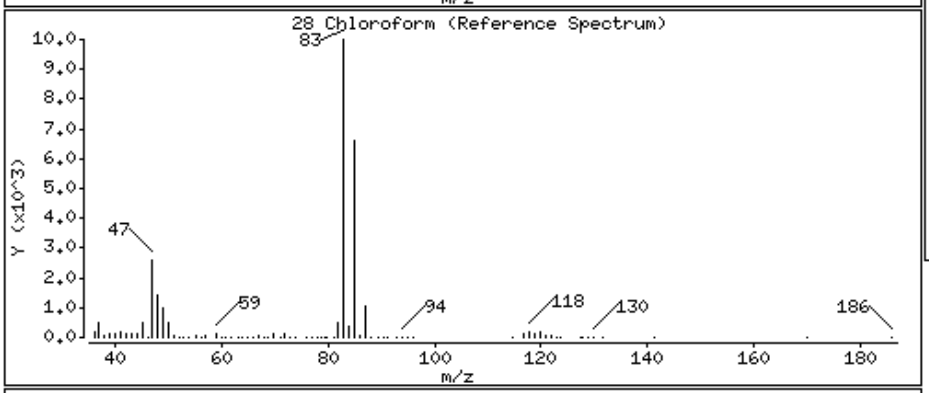
28 Chloroform Concentration: 11.85 ug/l

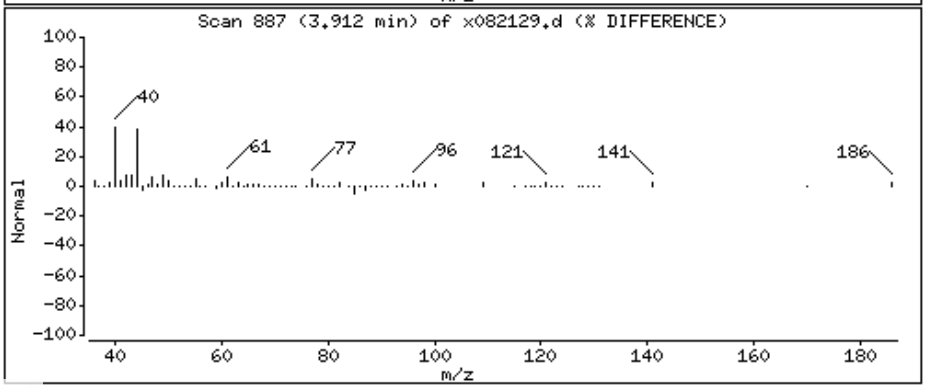












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d Page 8

Date : 21-AUG-2023 18:34

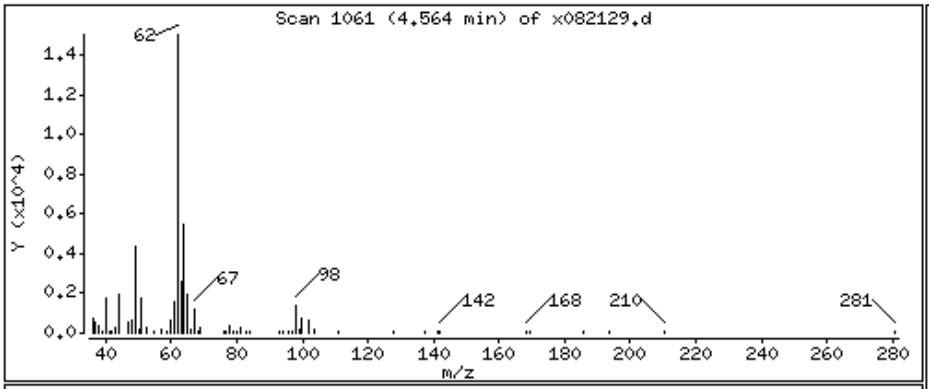
Client ID: HS23081040-01 Instrument: voa6.i

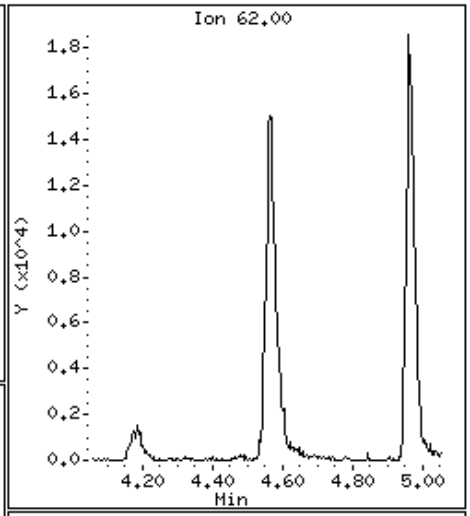
Sample Info: HS23081040-01;HS23081040-01;;;

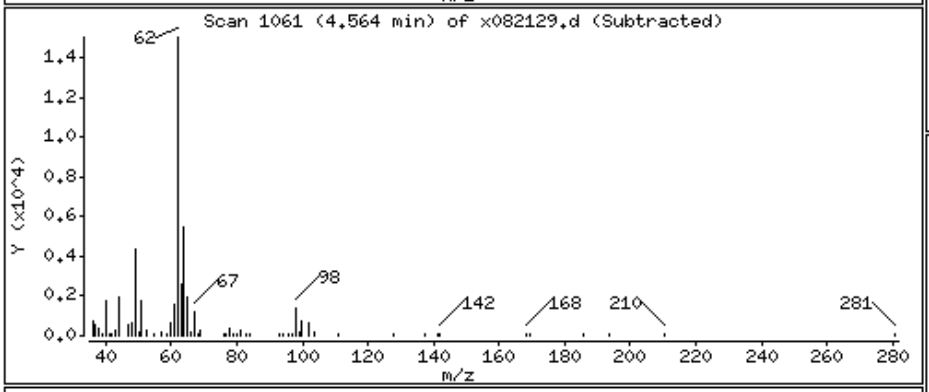
Purge Volume: 5.0 Operator: PC

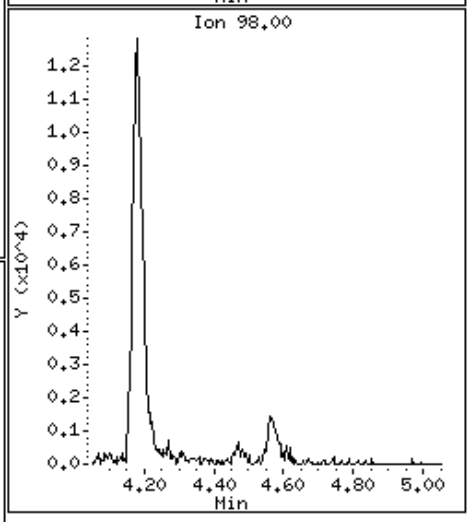
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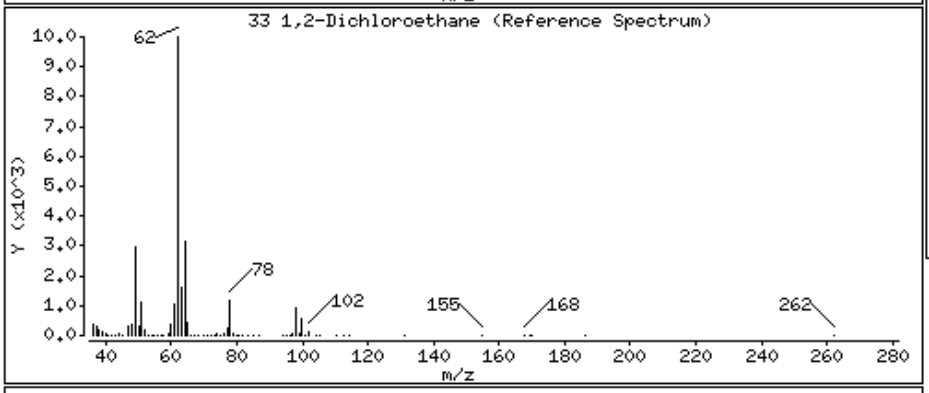
33 1,2-Dichloroethane Concentration: 34.11 ug/l

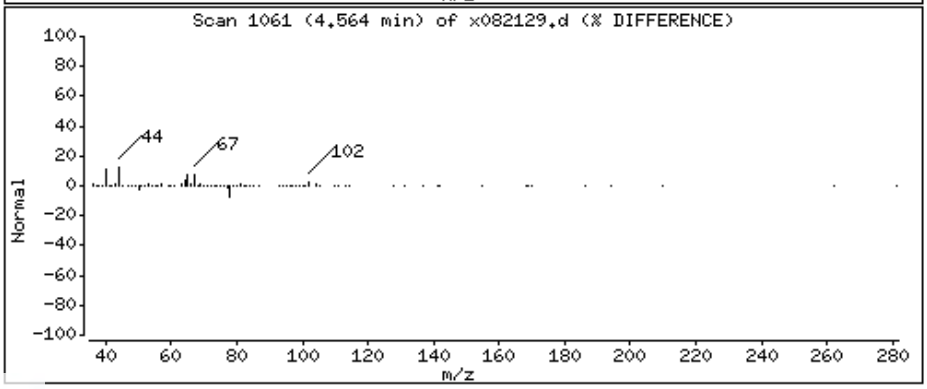












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d Page 9

Date : 21-AUG-2023 18:34

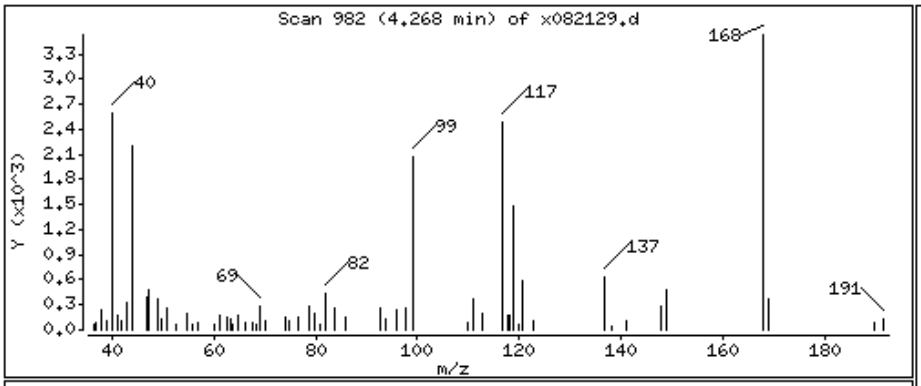
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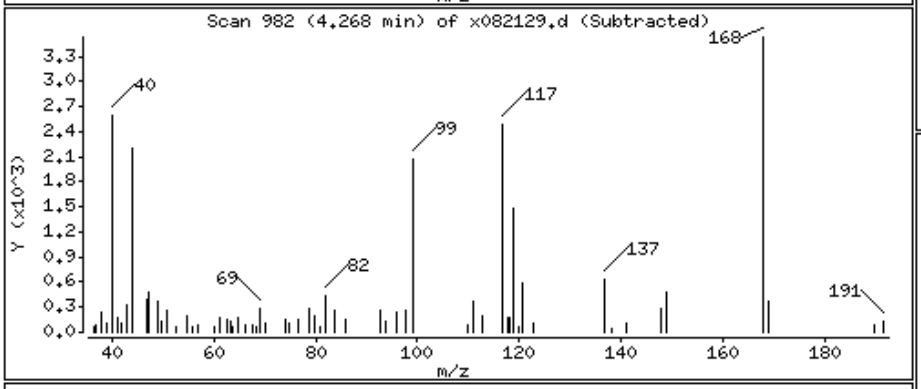
Sample Info: HS23081040-01;HS23081040-01;;;

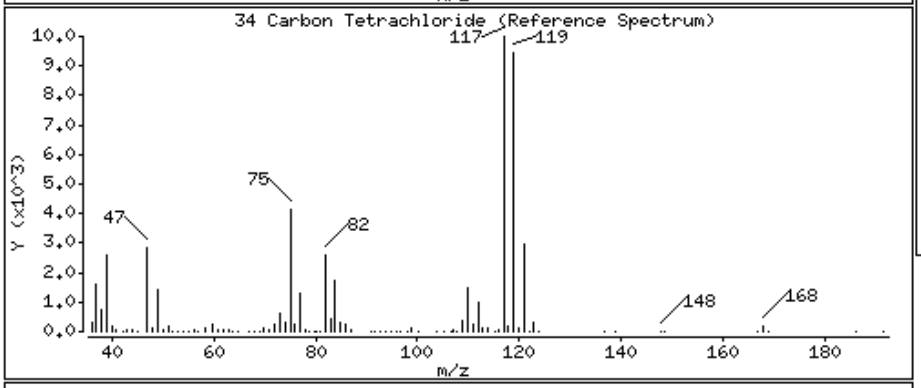
Purge Volume: 5.0 Operator: PC

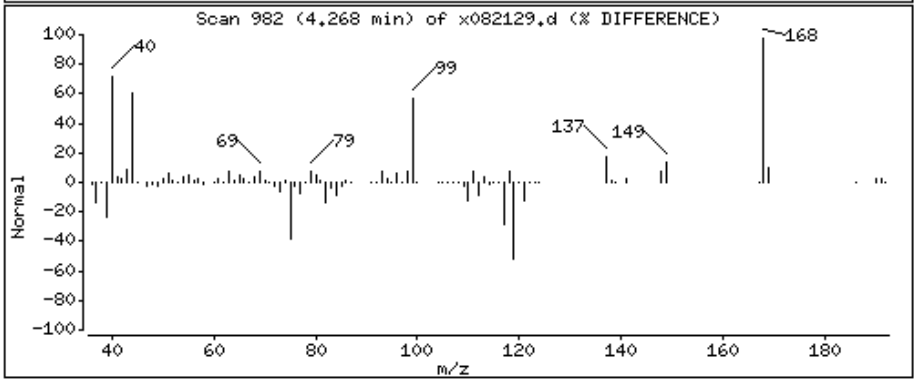
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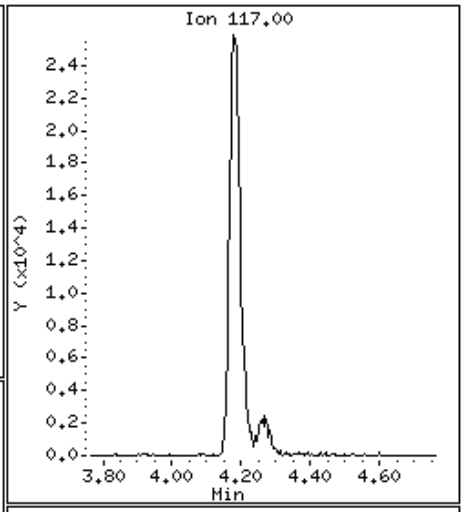
34 Carbon Tetrachloride Concentration: 6.53 ug/l

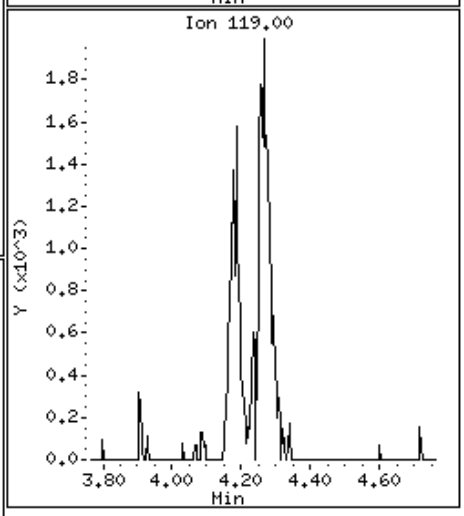












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d Page 10

Date : 21-AUG-2023 18:34

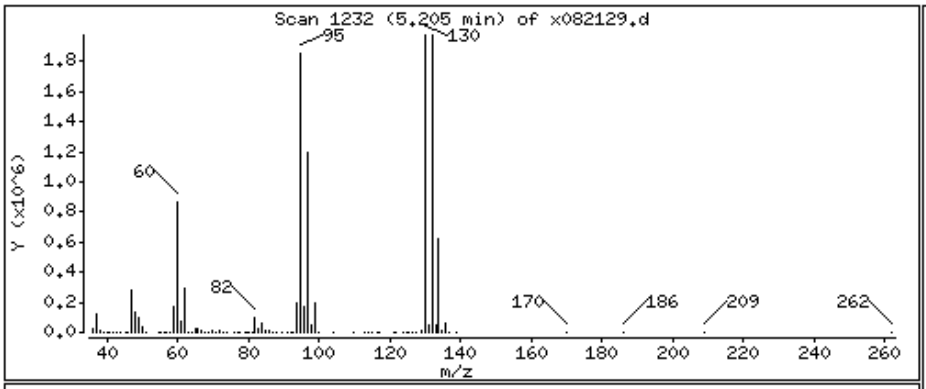
Client ID: HS23081040-01 Instrument: voa6.i

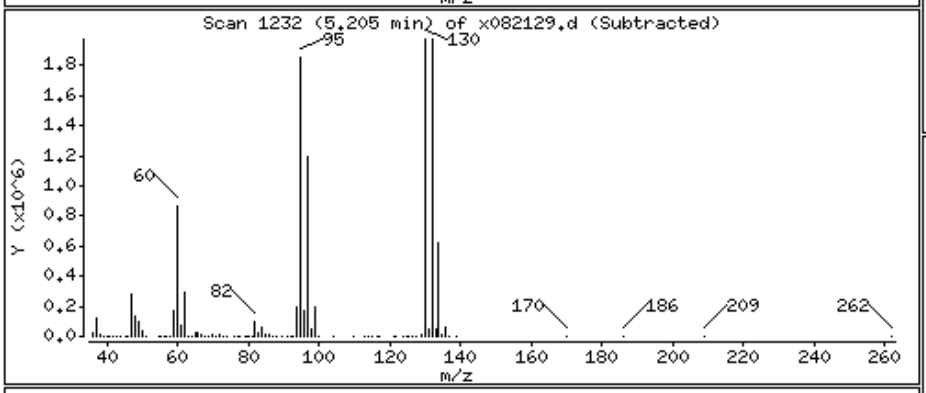
Sample Info: HS23081040-01;HS23081040-01;;;

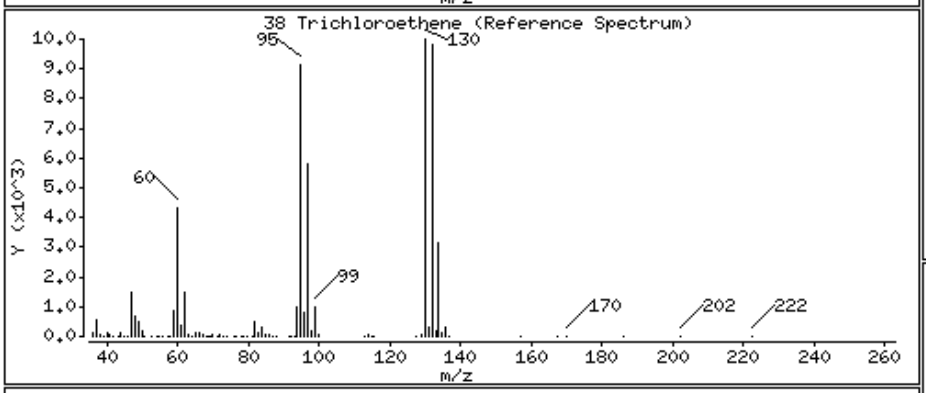
Purge Volume: 5.0 Operator: PC

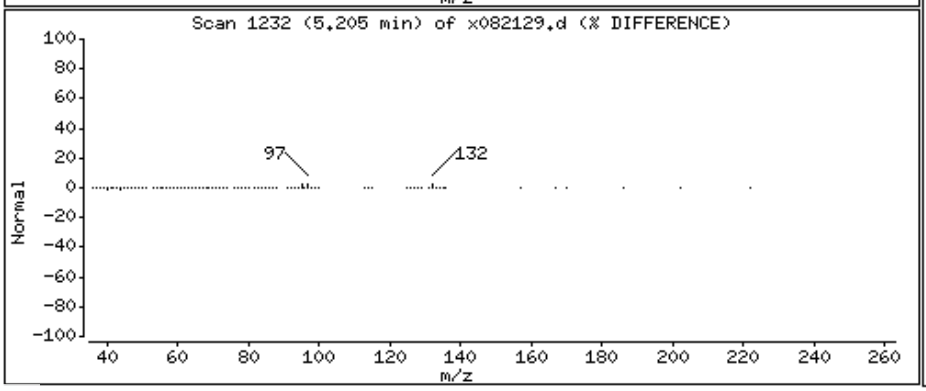
Column phase: DB624 Column diameter: 0.18

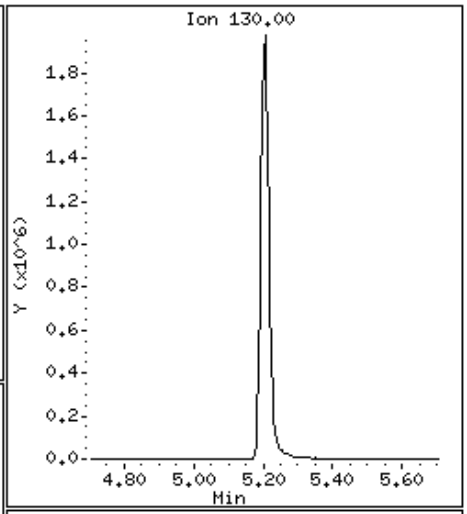
38 Trichloroethene Concentration: 4881.03 ug/l

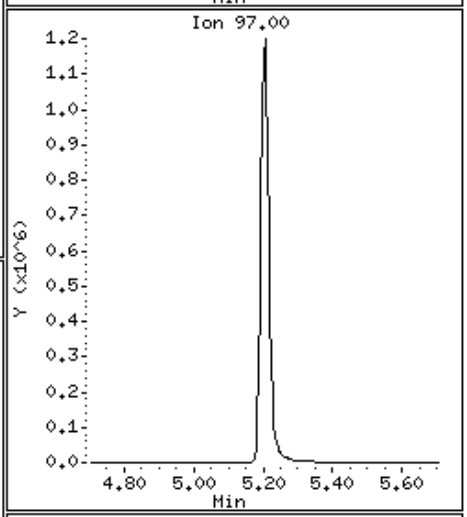


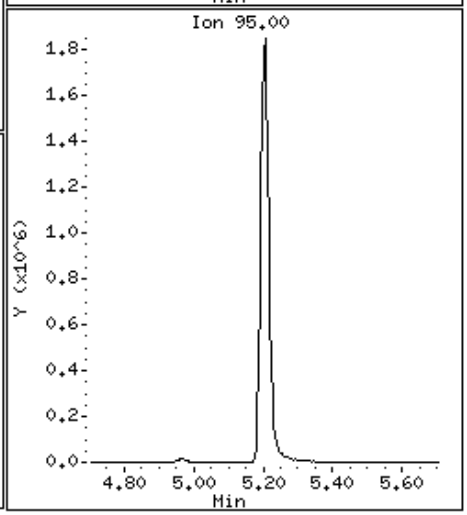












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d Page 11

Date : 21-AUG-2023 18:34

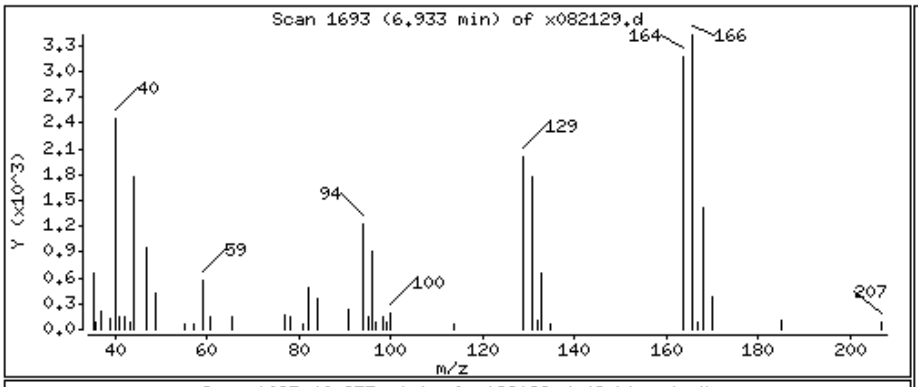
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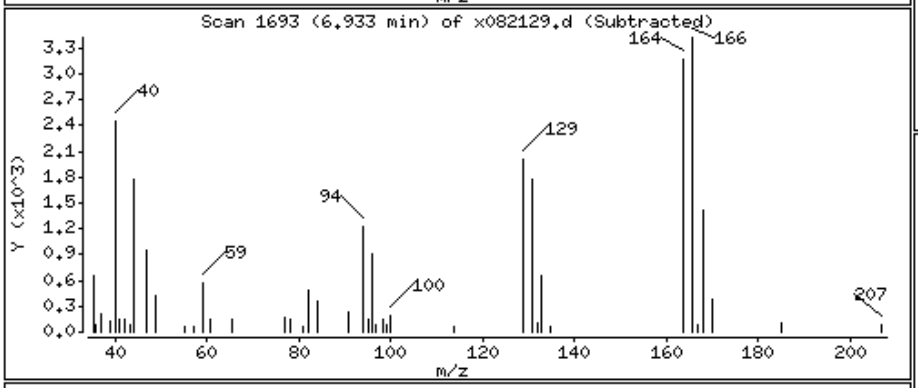
Sample Info: HS23081040-01;HS23081040-01;;;

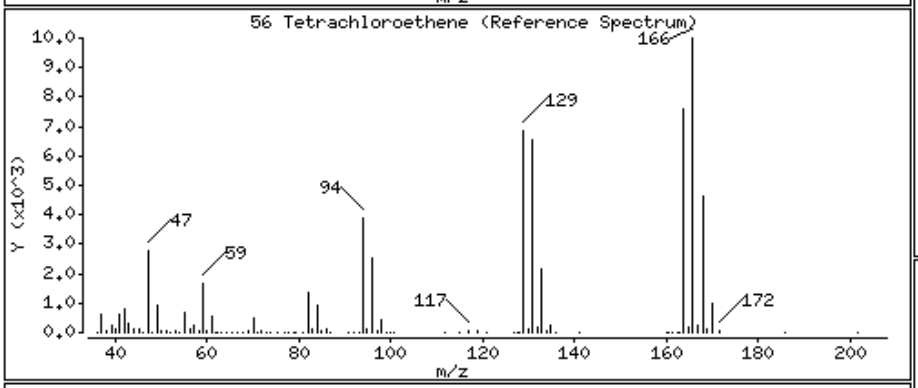
Purge Volume: 5.0 Operator: PC

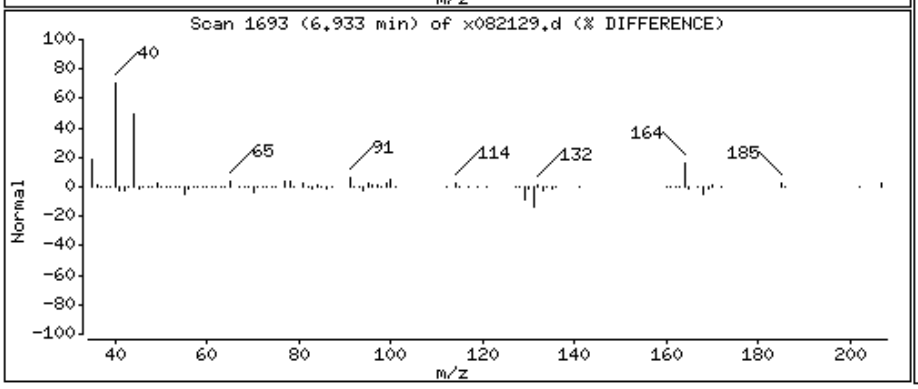
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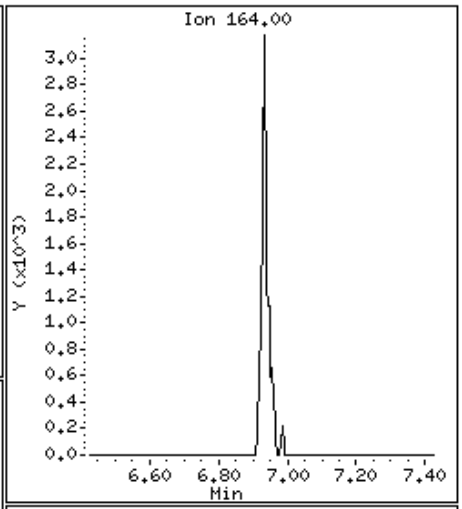
56 Tetrachloroethene Concentration: 7.10 ug/l

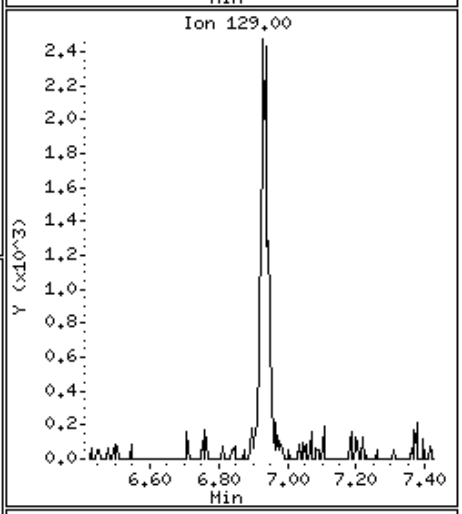


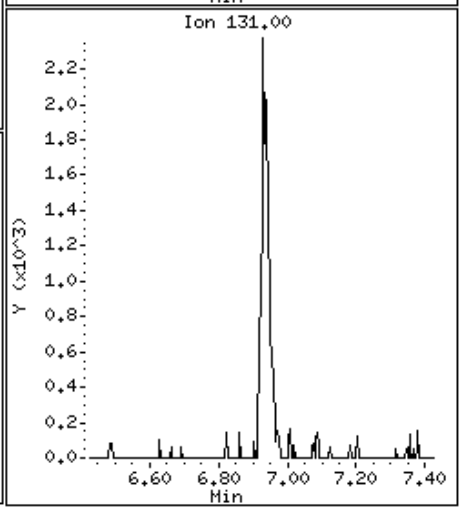












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082129.d Page 12

Date : 21-AUG-2023 18:34

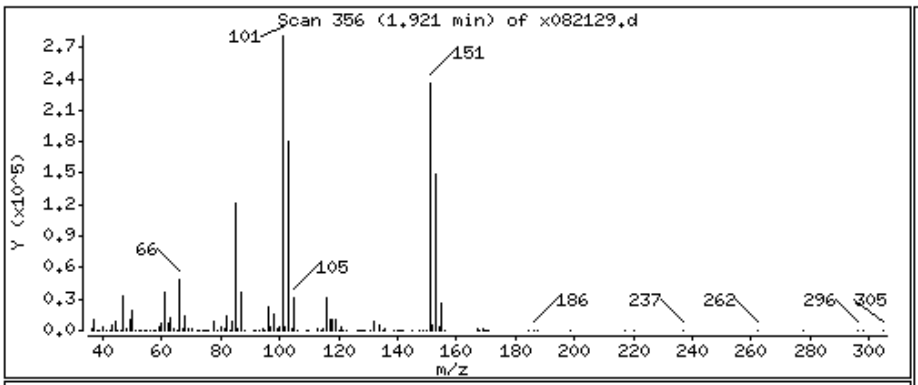
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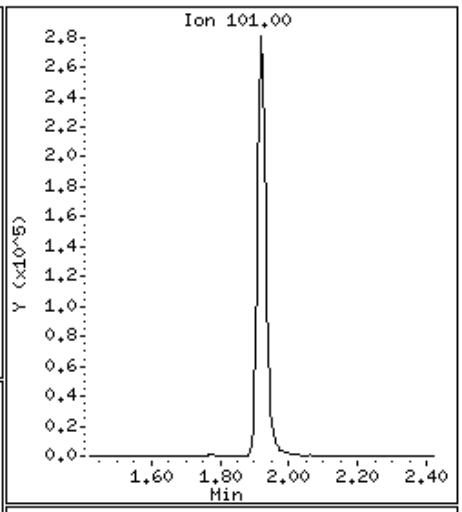
Sample Info: HS23081040-01;HS23081040-01;;;

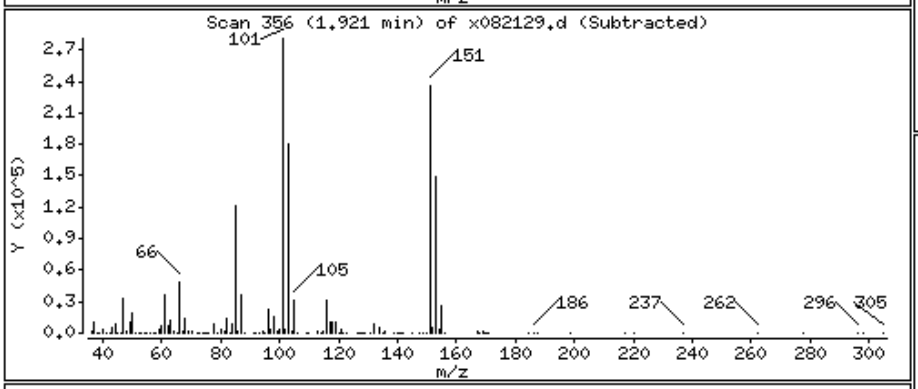
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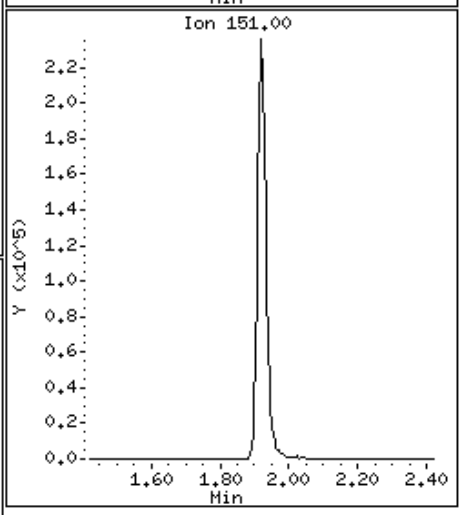
Column phase: DB624 Column diameter: 0.18

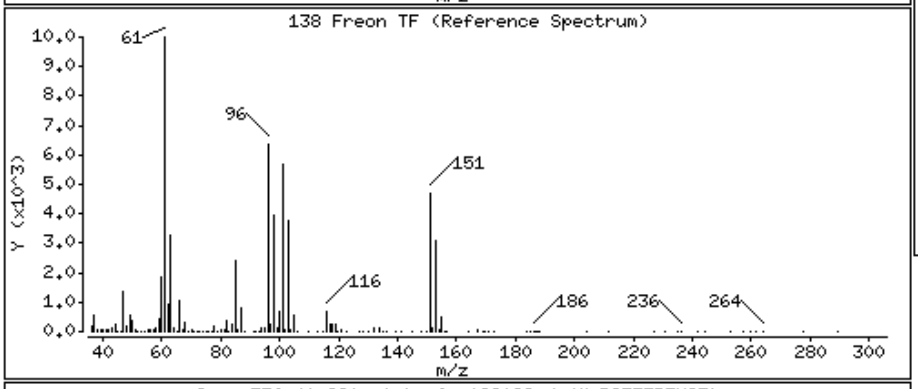
138 Freon TF Concentration: 793.70 ug/l

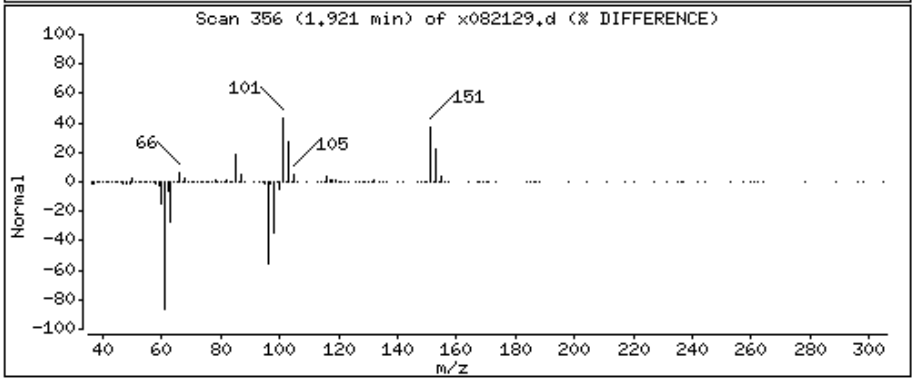












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Inj Date : 21-AUG-2023 18:34
InstruID : voa6.i
LabSampID : HS23081040-01

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa6.i\X230821.b\X082130.D Page 1
Report Date: 21-Aug-2023 21:14

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa6.i\X230821.b\X082130.D
Lab Smp Id: HS23081040-01 Client Smp ID: HS23081040-01
Inj Date : 21-AUG-2023 18:55
Operator : PC Inst ID: voa6.i
Smp Info : HS23081040-01;HS23081040-01;;;
Misc Info : V6;WATER;0;100;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 10:53 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 28
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	659146	50.0000	
	194 Acetaldehyde	44	1.269	1.216	(0.303)	27675	34.7942	3479.42
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	8707	1.10130	110.13(a)
	7 Chloroethane	64	1.149	1.407	(0.275)	3675	0.70921	70.92(a)
	8 Trichlorofluoromethane	101	1.917	1.565	(0.459)	54706	4.86181	486.18(a)
	11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	4156	0.65298	65.29(a)
	15 Iodomethane	142	2.037	2.033	(0.487)	1104	5.70368	570.36
	17 Methylene Chloride	84	2.307	2.307	(0.552)	278161	34.8501	3485.00
	27 cis-1,2-Dichloroethene	96	3.533	3.525	(0.845)	172229	24.2479	2424.78
$	30 Dibromofluoromethane	113	4.103	4.099	(0.981)	314688	52.0894	52.08
	32 1,1-Dichloropropene	75	4.185	4.279	(0.843)	42950	5.69139	569.13
	34 Carbon Tetrachloride	117	4.185	4.264	(0.843)	57068	7.16348	716.34
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	345154	51.2937	51.29
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	959077	50.0000	
	38 Trichloroethene	130	5.205	5.205	(1.048)	336340	49.5404	4954.03
	42 1,2-Dichloropropane	63	4.965	5.433	(1.000)	178587	26.8110	2681.09
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	890997	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	1092268	52.0903	52.09
	58 1-Chlorohexane	55	7.668	7.694	(1.544)	8450	1.52278	152.27(a)
	66 Bromoform	173	8.687	8.406	(1.133)	2876	0.59679	59.67(a)

$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	392559	44.6631	44.66
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.658 (1.000)	471601	50.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	71 1,2,3-Trichloropropane	75	8.773	8.860	(0.908)	5081	0.90001	90.00(a)
M	94 1,2-Dichloroethylene (total)	96				172229	24.2479	2424.78
	141 Cyclohexane	56	4.181	4.118	(1.000)	12405	3.19040	319.03(a)
	138 Freon TF	101	1.917	1.921	(0.459)	54705	9.75205	975.20

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01250534

Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082130.d

Date : 21-AUG-2023 18:55

Client ID: HS23081040-01

Instrument: voa6.i

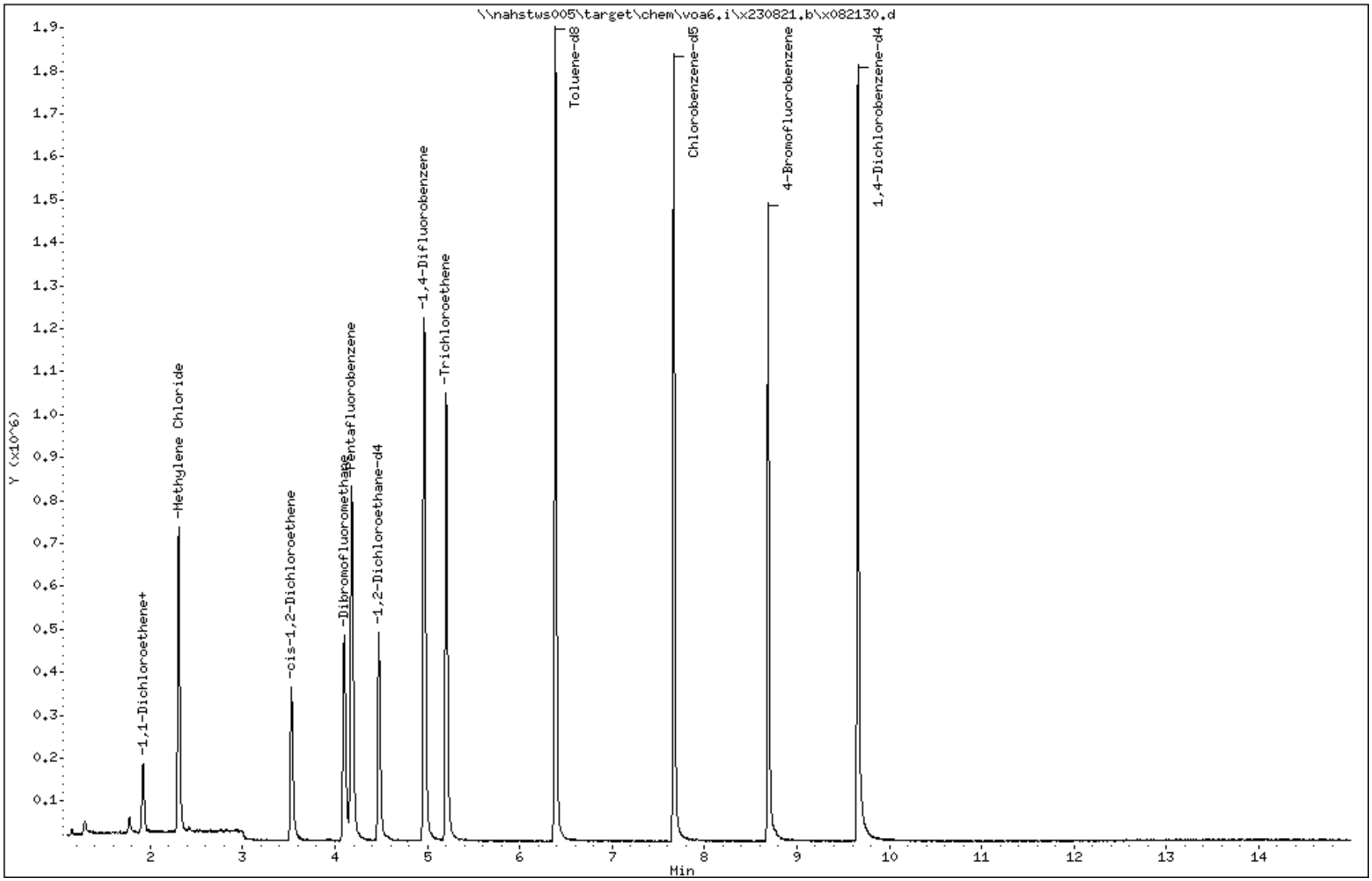
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082130.d Page 2

Date : 21-AUG-2023 18:55

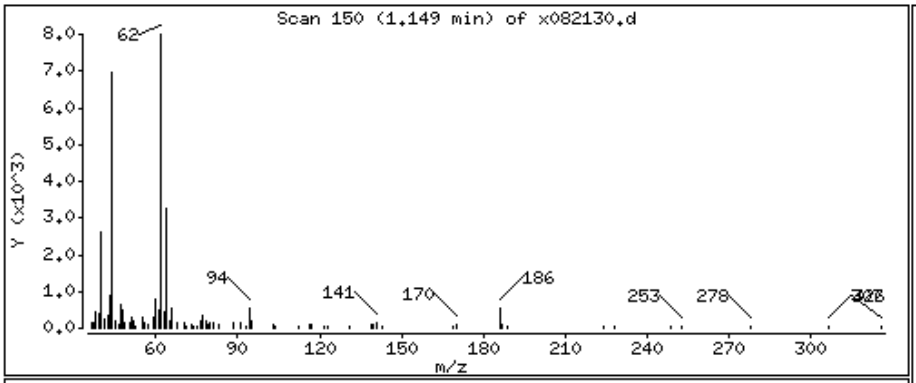
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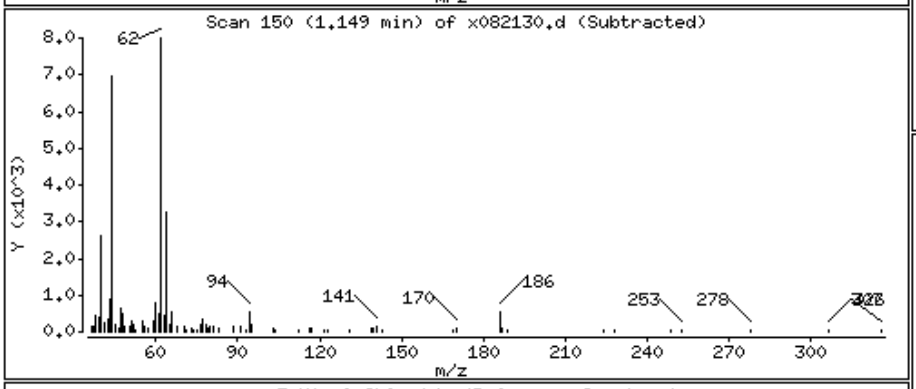
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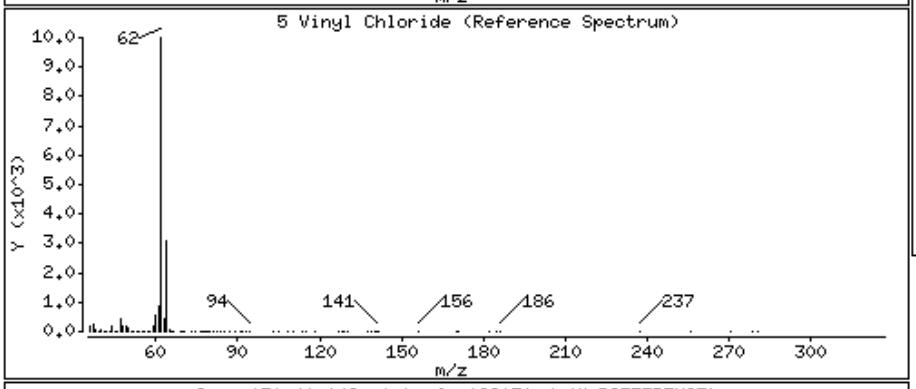
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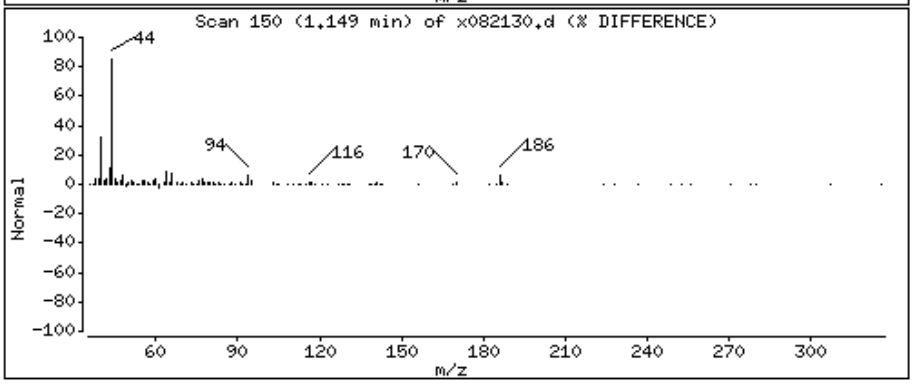
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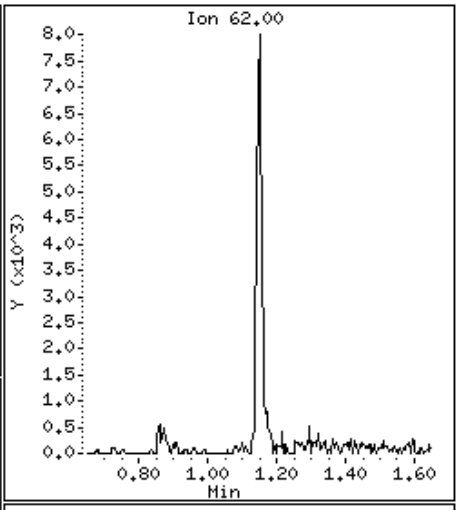
5 Vinyl Chloride Concentration: 110.13 ug/l

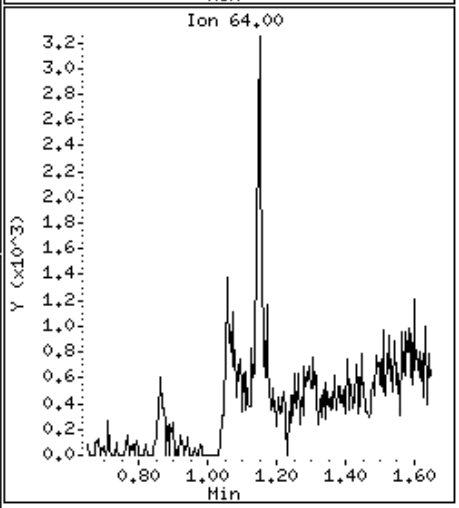












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082130.d

Date : 21-AUG-2023 18:55

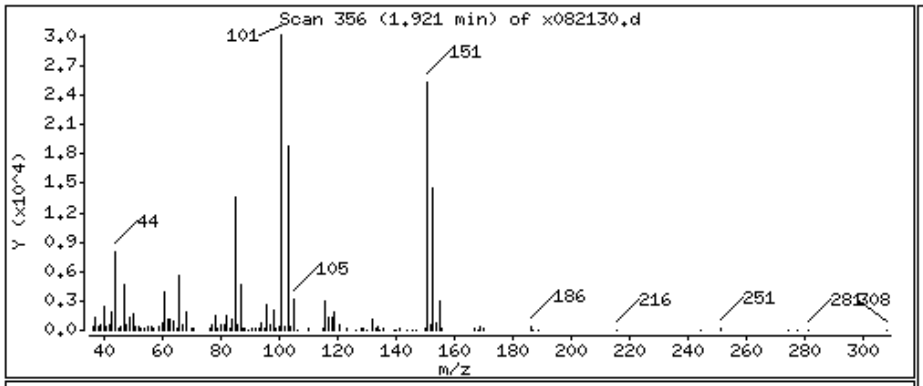
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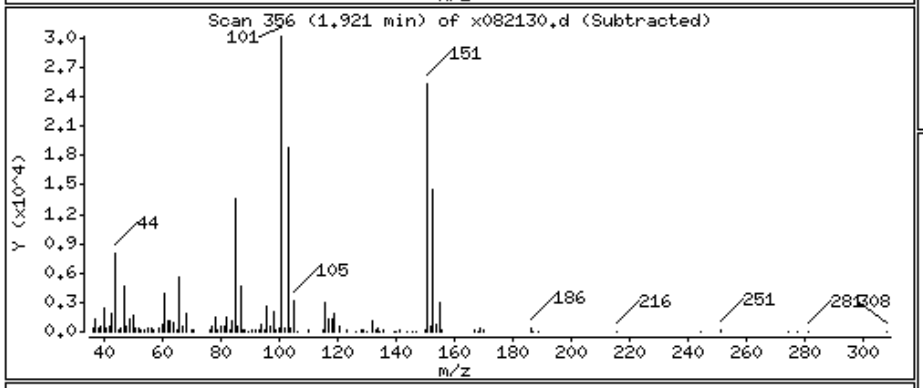
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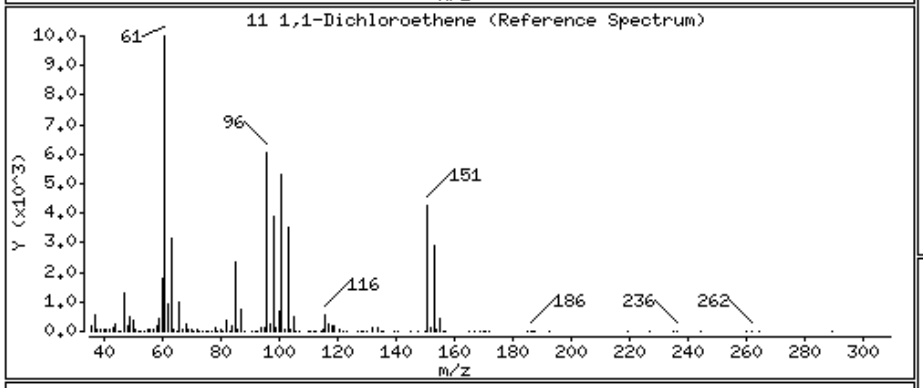
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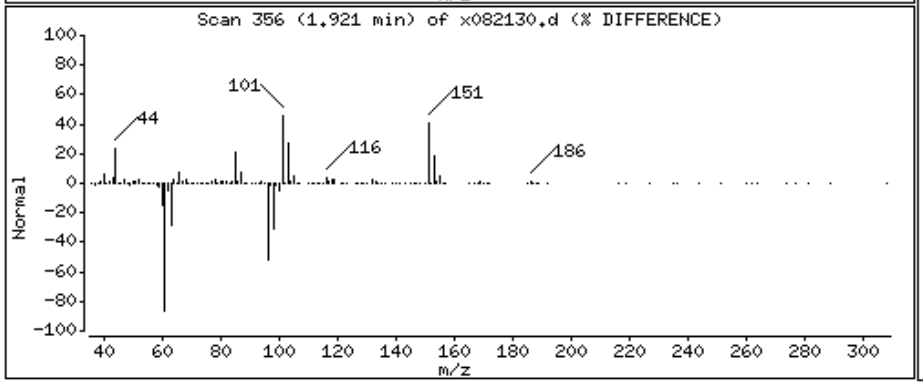
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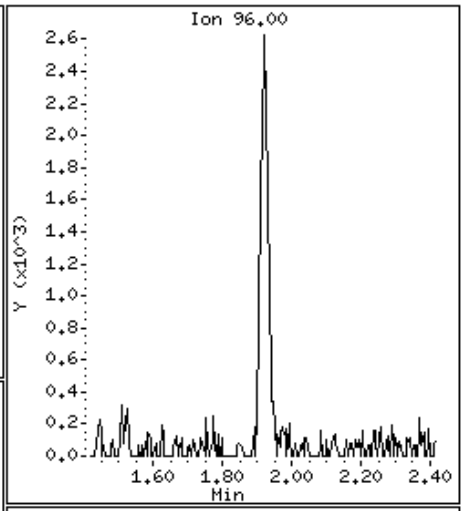
11 1,1-Dichloroethene Concentration: 65.29 ug/l

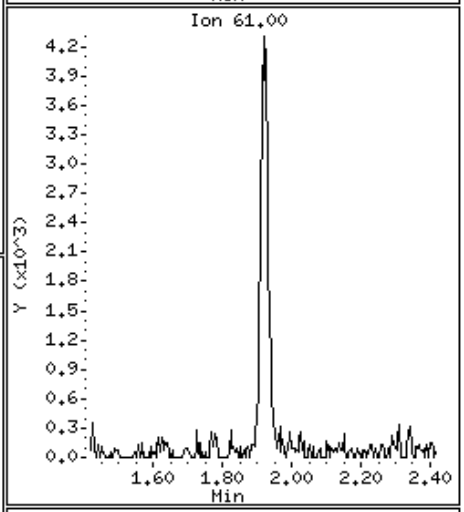


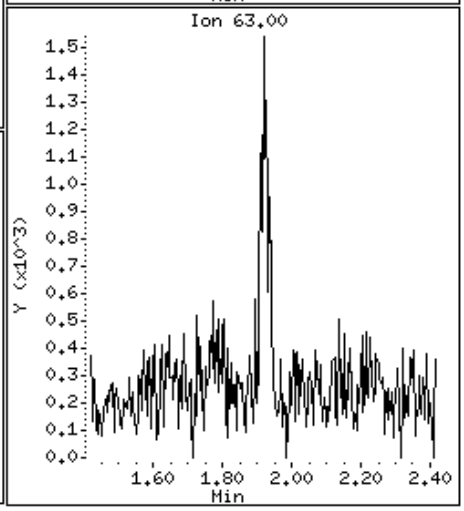












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Date : 21-AUG-2023 18:55

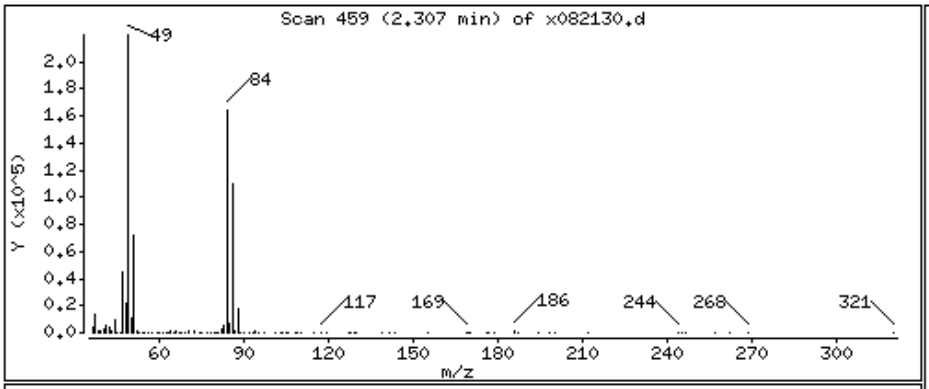
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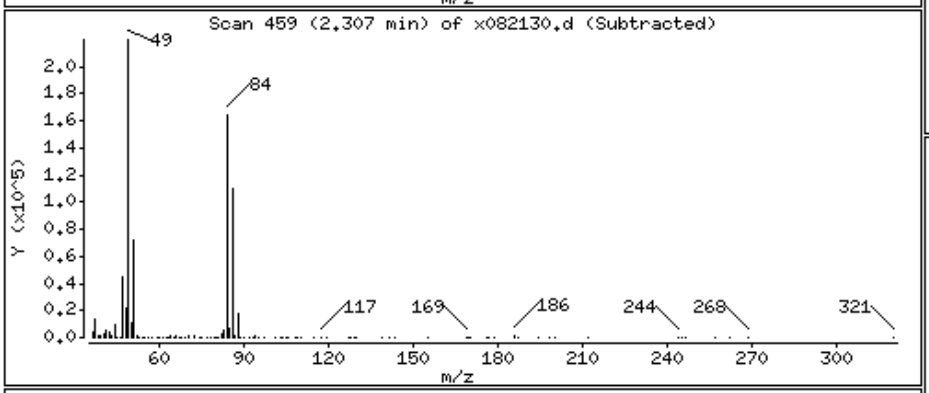
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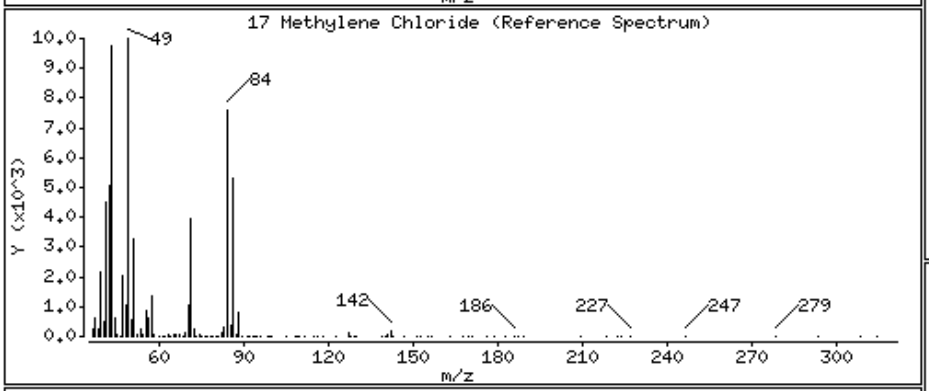
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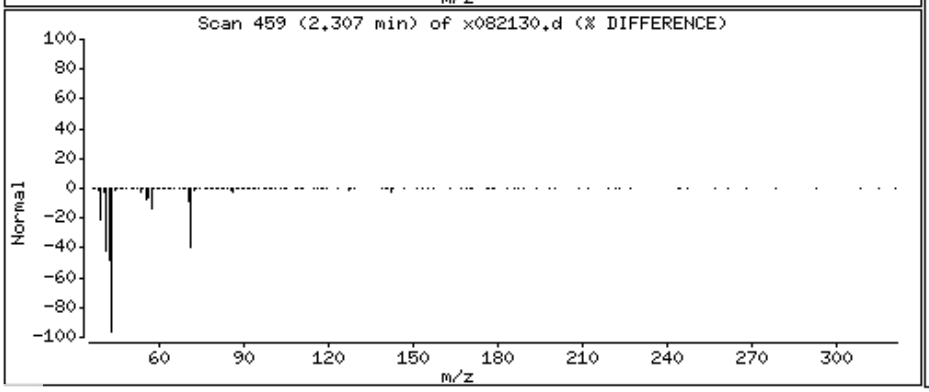
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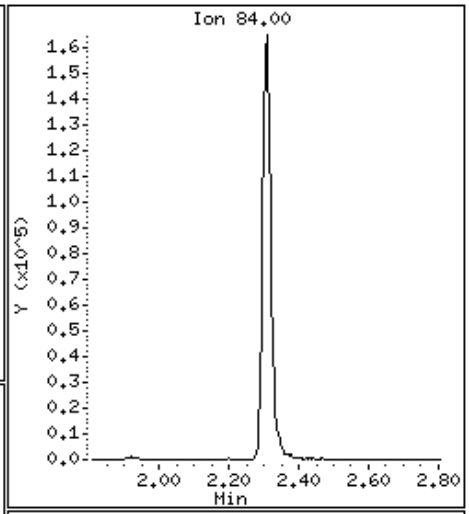
17 Methylene Chloride Concentration: 3485.00 ug/l

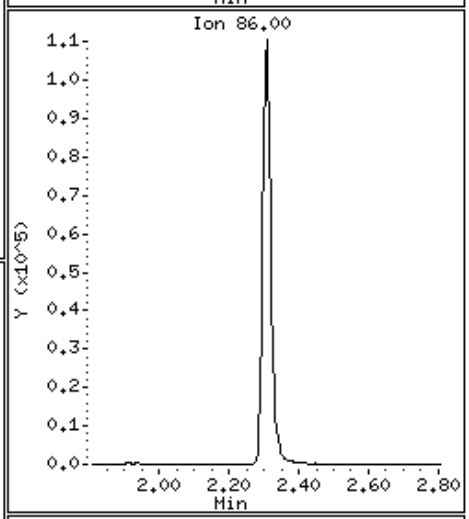


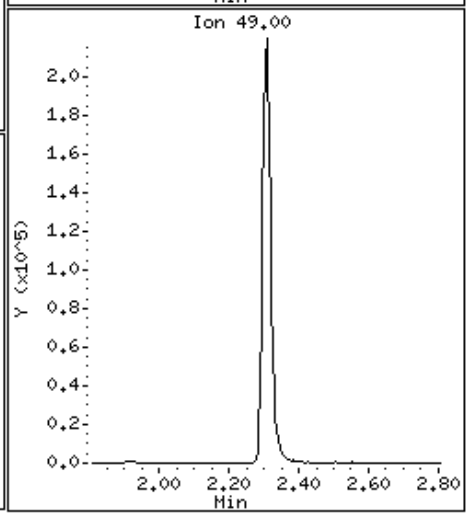












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082130.d Page 5

Date : 21-AUG-2023 18:55

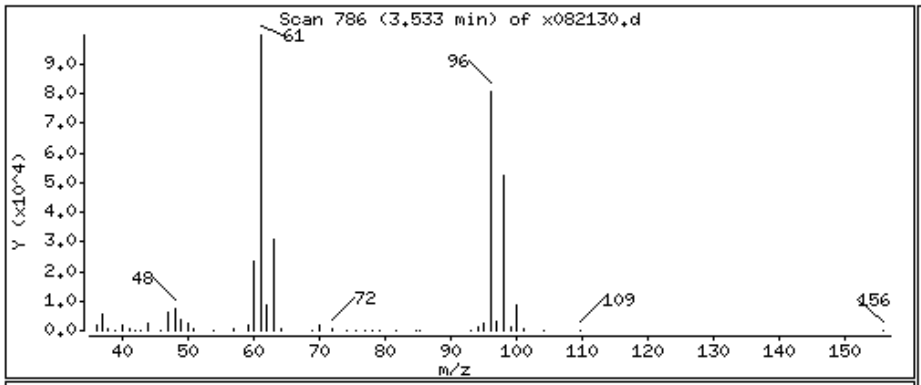
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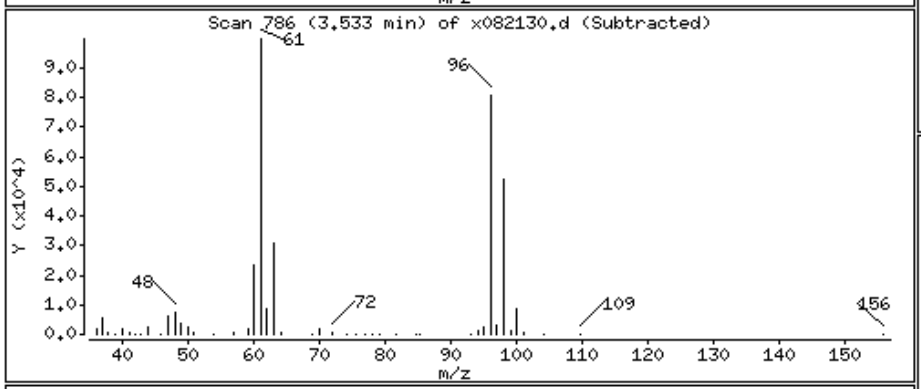
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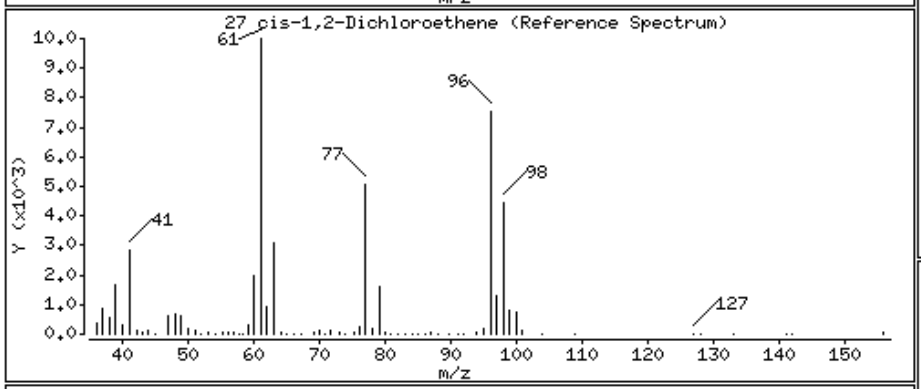
Purge Volume: 5.0 Operator: PC

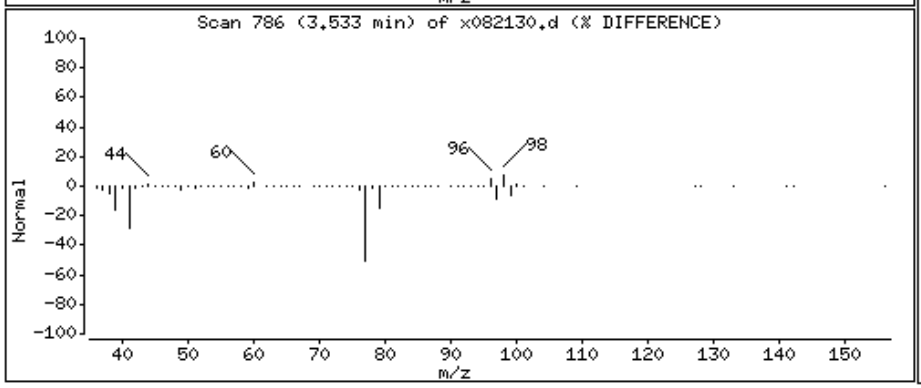
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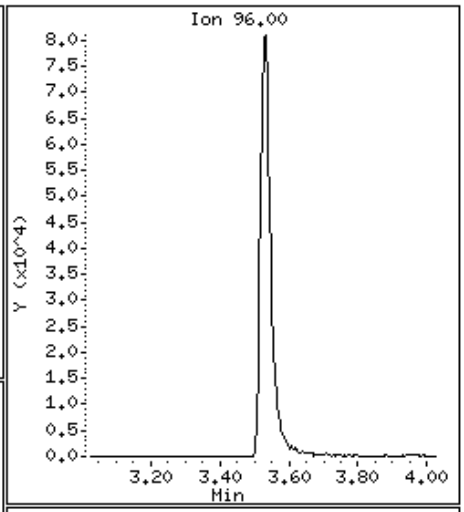
27 cis-1,2-Dichloroethene Concentration: 2424.78 ug/l

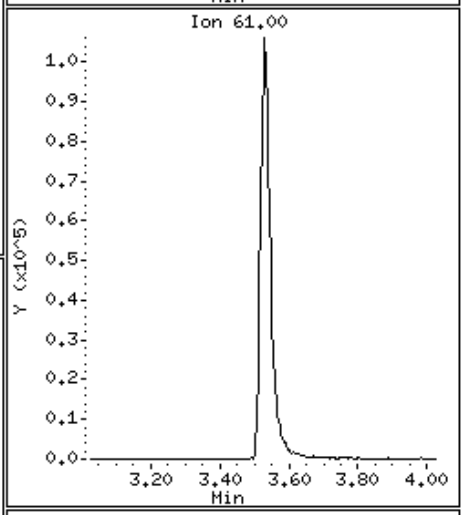


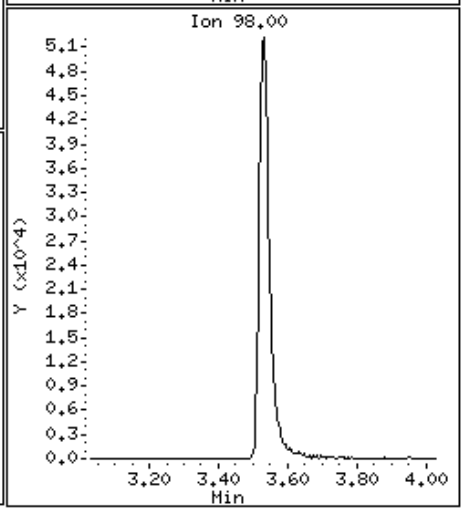












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082130.d Page 6

Date : 21-AUG-2023 18:55

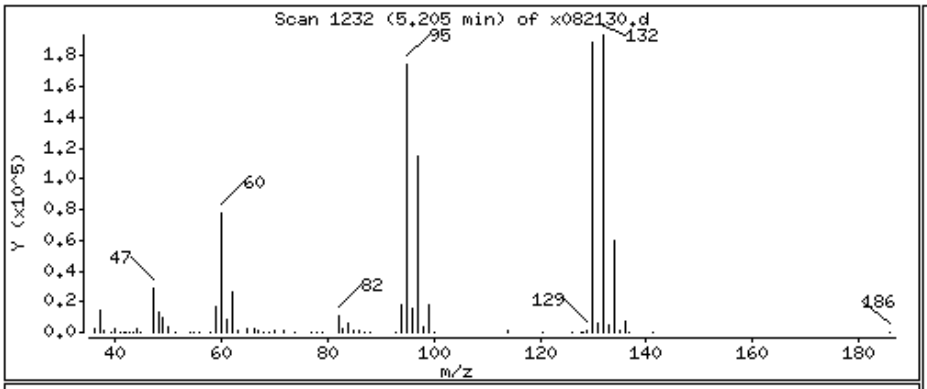
Client ID: HS23081040-01 Instrument: voa6.i

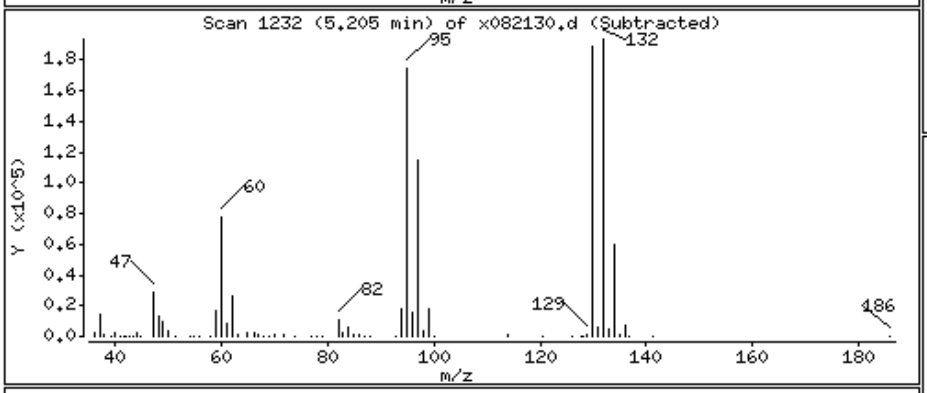
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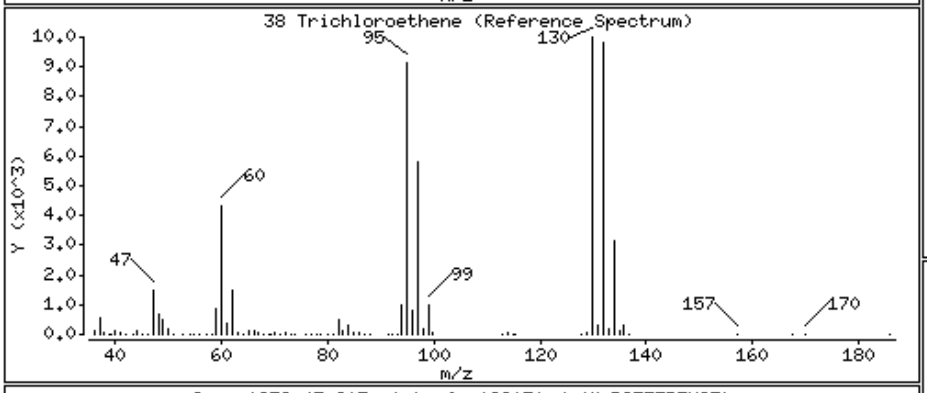
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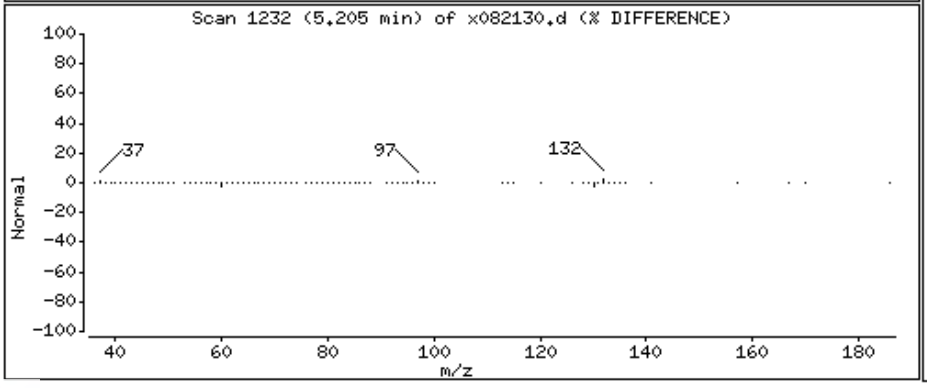
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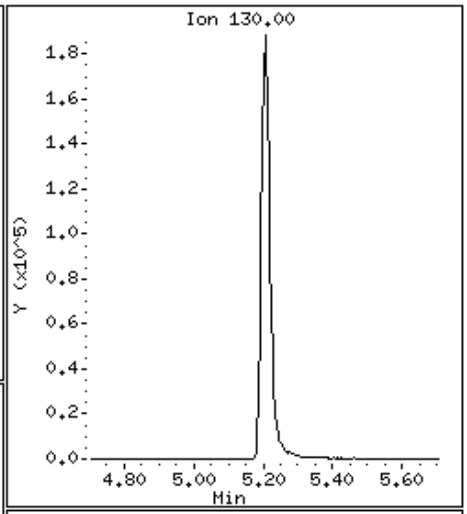
38 Trichloroethene Concentration: 4954.03 ug/l

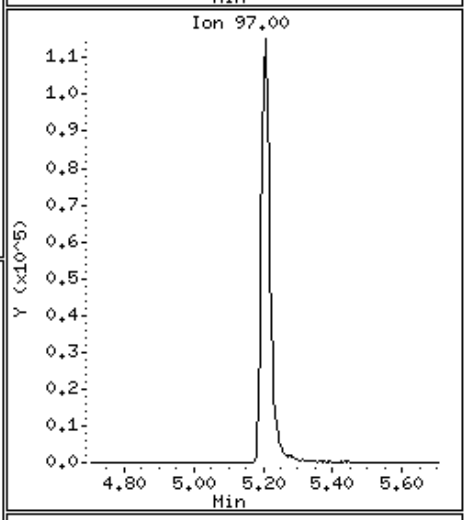


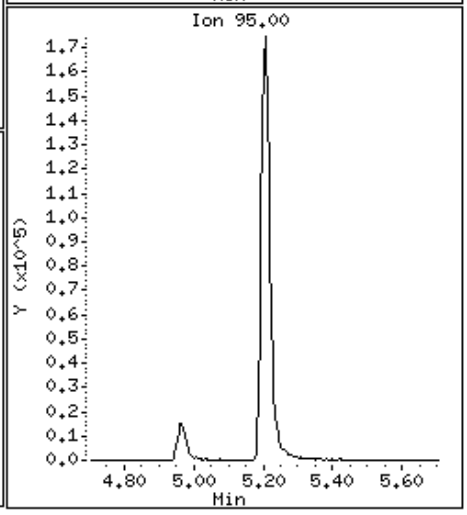












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Date : 21-AUG-2023 18:55

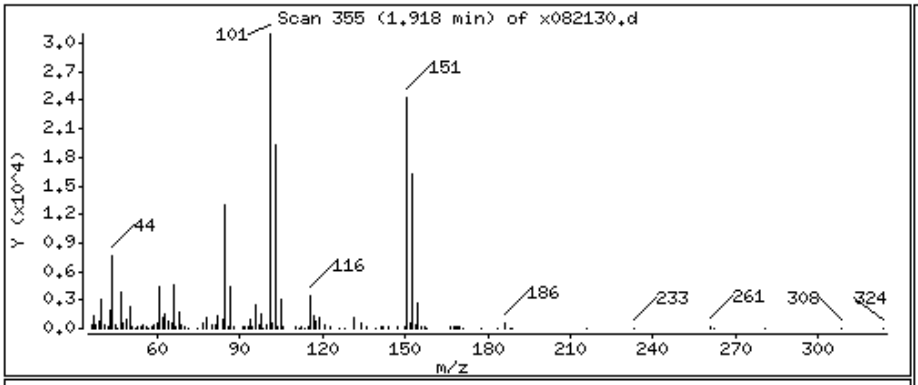
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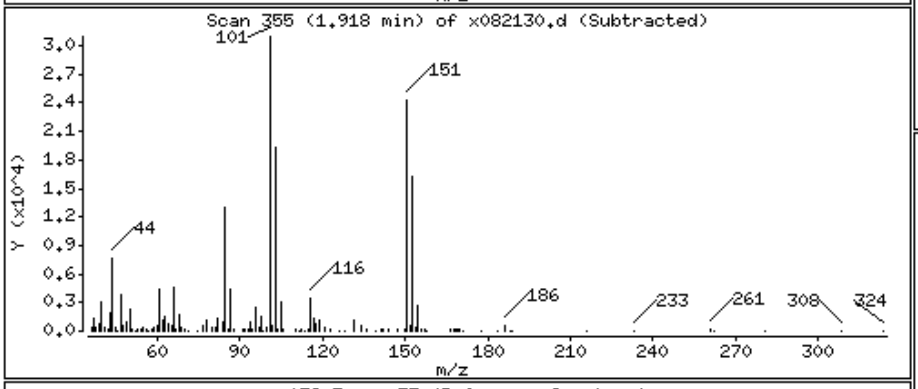
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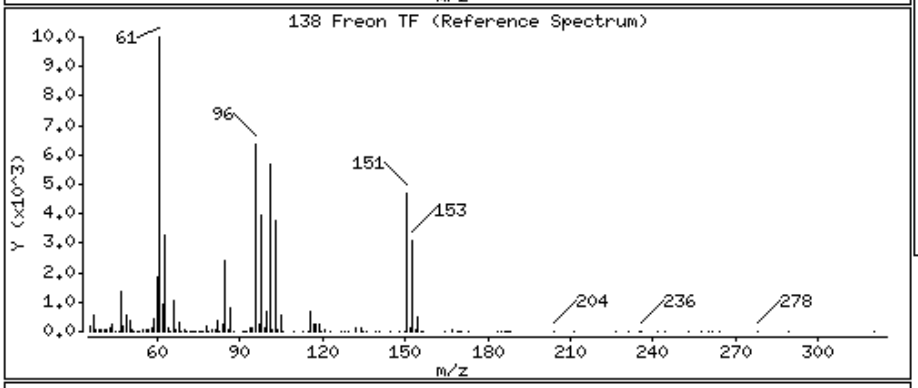
Purge Volume: 5.0 Operator: PC

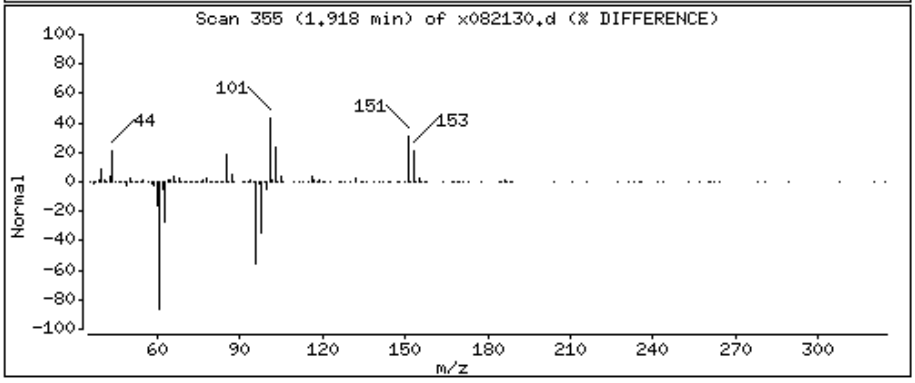
Column phase: DB624 Column diameter: 0.18

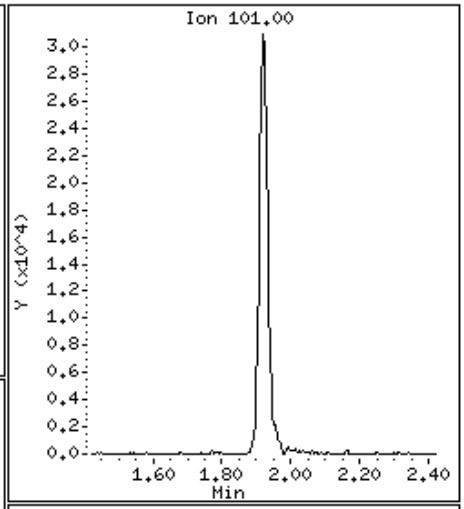
138 Freon TF Concentration: 975.20 ug/l

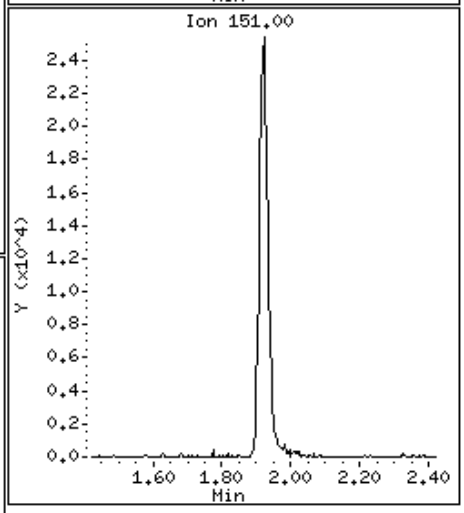












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Inj Date : 21-AUG-2023 18:55
InstruID : voa6.i
LabSampID : HS23081040-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082131.D Page 1
Report Date: 22-Aug-2023 09:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082131.D
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Inj Date : 21-AUG-2023 19:15
Operator : PC Inst ID: voa6.i
Smp Info : CCV_END;CCV_END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 22:09 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	650857	50.0000	
135 1,4-Dioxane	88	5.602	5.602	(1.340)	77383	1000.00	935.37
140 1,3-Butadiene	54	1.171	1.171	(0.280)	318774	50.0000	47.53
25 Methacrylonitrile	41	3.829	3.829	(0.916)	305874	50.0000	47.12
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	945025	1000.00	926.29
13 Acetonitrile	39	2.202	2.202	(0.527)	458125	500.000	456.41
14 Allyl Chloride	41	2.202	2.202	(0.527)	864438	50.0000	43.59
4 Propionitrile	54	3.660	3.660	(0.875)	437607	500.000	482.79
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	114038	50.0000	45.53
194 Acetaldehyde	44	1.216	1.216	(0.291)	99322	200.000	149.21
23 Chloroprene	53	1.775	1.775	(0.424)	133842	50.0000	48.60(M)
130 Ethyl Acetate	43	3.660	3.660	(0.875)	335010	50.0000	44.84
40 Methyl Methacrylate	41	5.606	5.606	(1.341)	279821	50.0000	46.72
49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	465725	50.0000	49.08
131 Methyl Acrylate	55	3.694	3.694	(0.883)	335027	50.0000	52.10
132 n-Butanol	56	5.261	5.261	(1.258)	147268	1000.00	865.13
136 n-Hexane	57	2.772	2.772	(0.663)	396519	50.0000	62.07
139 Diethyl ether	59	1.760	1.760	(0.421)	257043	50.0000	44.74
142 Tetrahydrofuran	42	3.855	3.855	(0.922)	106994	100.000	84.27
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	641277	50.0000	50.53

156 Diisopropyl ether	45	3.004	3.004 (0.719)	1078155	50.0000	45.99
162 Butyl acrylate	55	8.249	8.249 (1.076)	778509	50.0000	48.11

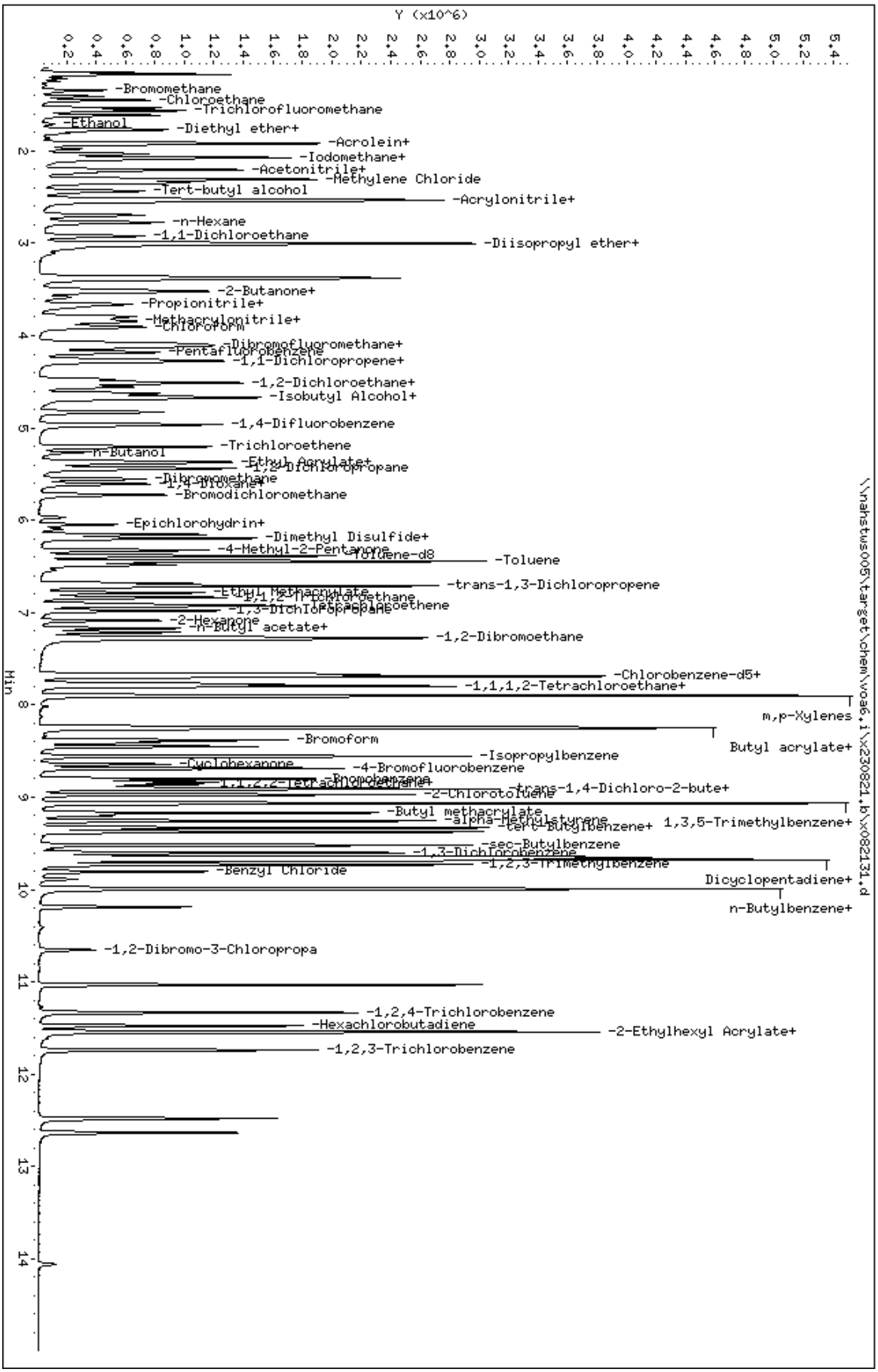
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	167 Ethanol	45	1.707	1.707	(0.408)	75446	1000.00	978.80
	200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	695510	50.0000	53.17
	182 Epichlorohydrin	57	6.093	6.093	(1.227)	104711	200.000	165.30
	164 Dicyclopentadiene	66	9.681	9.681	(1.002)	1656674	50.0000	52.08
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1360596	50.0000	49.13
	205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	667933	50.0000	54.80
	86 Benzyl Chloride	91	9.804	9.804	(1.279)	643716	50.0000	45.27
	134 Cyclohexanone	55	8.642	8.642	(0.895)	296548	1000.00	780.55
	133 Ethyl Acrylate	55	5.381	5.381	(1.287)	811144	50.0000	52.68
	163 Butyl methacrylate	41	9.167	9.167	(0.949)	528756	50.0000	43.72
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	944723	50.0000	45.15
	189 n-Butyl acetate	43	7.210	7.210	(0.940)	540362	50.0000	47.42
	2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	292045	50.0000	48.95
	3 Chloromethane	50	1.085	1.085	(0.260)	285982	50.0000	45.15
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	388727	50.0000	49.79
	6 Bromomethane	94	1.344	1.344	(0.321)	196951	50.0000	46.86
	7 Chloroethane	64	1.407	1.407	(0.337)	240317	50.0000	46.96
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	583221	50.0000	52.49
	9 Acrolein	56	1.861	1.861	(0.445)	33020	100.000	156.27
	10 Acetone	43	1.977	1.977	(0.473)	225462	100.000	89.10
	11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	313639	50.0000	49.90
	15 Iodomethane	142	2.030	2.030	(0.485)	731774	100.000	98.99
	16 Acrylonitrile	53	2.536	2.536	(0.606)	272633	100.000	90.05
	17 Methylene Chloride	84	2.307	2.307	(0.552)	361818	50.0000	45.90
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	1001304	50.0000	44.66
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	1829230	100.000	98.07
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	354343	50.0000	48.51
	21 Vinyl Acetate	43	3.000	3.000	(0.718)	1868818	100.000	86.50
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	635230	50.0000	46.18
	24 2-Butanone	43	3.585	3.585	(0.857)	230255	100.000	95.57
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	436599	50.0000	47.28
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	349430	50.0000	49.82
	28 Chloroform	83	3.908	3.908	(0.935)	593220	50.0000	49.20
	29 Bromochloromethane	128	3.795	3.795	(0.908)	196453	50.0000	49.27
$	30 Dibromofluoromethane	113	4.103	4.103	(0.981)	323229	50.0000	54.21
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	506866	50.0000	52.37
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	427144	50.0000	52.41
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	457667	50.0000	46.48
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	442891	50.0000	51.48
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	345451	50.0000	52.00
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1035720	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	1255127	50.0000	49.19
	38 Trichloroethene	130	5.205	5.205	(1.048)	377861	50.0000	51.53
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	449594	50.0000	47.32
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	214742	100.000	88.34
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	340598	50.0000	47.34
	44 Dibromomethane	93	5.550	5.550	(1.118)	230733	50.0000	46.93
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	643918	100.000	90.36
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	516198	50.0000	47.47
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	993347	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1139788	50.0000	48.75
	50 Toluene	91	6.445	6.445	(0.841)	1372744	50.0000	49.59

51	trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)	432998	50.0000	47.45
52	2-Hexanone	43	7.086	7.086 (0.924)	444278	100.000	92.88

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	271002	50.0000	49.11
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	546467	50.0000	48.45
55	Dibromochloromethane	129	7.173	7.173	(0.935)	402250	50.0000	50.51
56	Tetrachloroethene	164	6.925	6.925	(0.903)	312153	50.0000	54.25
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	330383	50.0000	49.01
58	1-Chlorohexane	55	7.694	7.694	(1.550)	317306	50.0000	52.95
59	Chlorobenzene	112	7.690	7.690	(1.003)	939248	50.0000	49.24
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	372475	50.0000	50.55
61	Ethylbenzene	106	7.795	7.795	(1.017)	489911	50.0000	52.01
62	m,p-Xylenes	106	7.900	7.900	(1.030)	1254886	100.000	104.15
63	o-Xylene	106	8.237	8.237	(1.074)	601201	50.0000	50.63
64	Styrene	104	8.256	8.256	(1.077)	1035460	50.0000	52.44
66	Bromoform	173	8.406	8.406	(1.096)	279399	50.0000	52.00
67	Isopropylbenzene	105	8.560	8.560	(1.116)	1586091	50.0000	53.75
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	442947	50.0000	45.61
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	506610	50.0000	51.65
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	596601	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	470792	50.0000	65.92
73	n-Propylbenzene	91	8.908	8.908	(0.922)	1887202	50.0000	53.49
74	Bromobenzene	156	8.803	8.803	(0.912)	466798	50.0000	48.95
75	1,3,5-Trimethylbenzene	105	9.062	9.062	(0.938)	1328926	50.0000	51.53
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	1108386	50.0000	49.06
77	4-Chlorotoluene	91	9.066	9.066	(0.939)	1297054	50.0000	49.90
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	1190431	50.0000	53.88
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1347130	50.0000	50.72
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	1661926	50.0000	54.87
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	1462630	50.0000	53.40
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	848642	50.0000	49.97
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	890808	50.0000	48.97
87	n-Butylbenzene	91	9.992	9.992	(1.035)	1310197	50.0000	49.17
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	833658	50.0000	48.63
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	78901	50.0000	48.04
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	589573	50.0000	51.97
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	276017	50.0000	62.70
92	Naphthalene	128	11.540	11.540	(1.195)	1339225	50.0000	47.29
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	537720	50.0000	48.64
M 94	1,2-Dichloroethylene (total)	96				703773	100.000	98.34
M 95	Xylenes (total)	106				1856087	150.000	154.78
141	Cyclohexane	56	4.121	4.121	(0.986)	474251	50.0000	54.29
138	Freon TF	101	1.921	1.921	(0.459)	332349	50.0000	54.15
147	Methylcyclohexane	55	5.381	5.381	(1.084)	811144	50.0000	52.13
146	Methyl Acetate	43	2.232	2.232	(0.534)	267121	50.0000	45.67
148	Tert-Butyl alcohol	59	2.434	2.434	(0.582)	746833	1000.00	951.25
149	Isopropyl Alcohol	45	2.097	2.097	(0.502)	430271	1000.00	941.02

QC Flag Legend

M - Compound response manually integrated.



Data File: \\nahstws005\target\chem\voa6_i\x230821_b\x082131.d
Date : 21-AUG-2023 19:15
Client ID: CCV_END
Sample Info: CCV_END;CCV_END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6_i
Operator: PC
Column diameter: 0.18

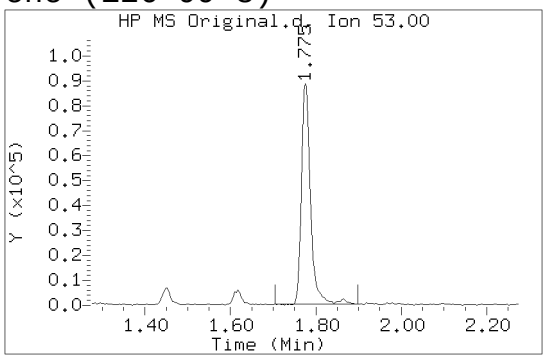
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Inj Date : 21-AUG-2023 19:15
InstruID : voa6.i
LabSampID : CCV_END

Chloroprene (126-99-8)

Reason Code:

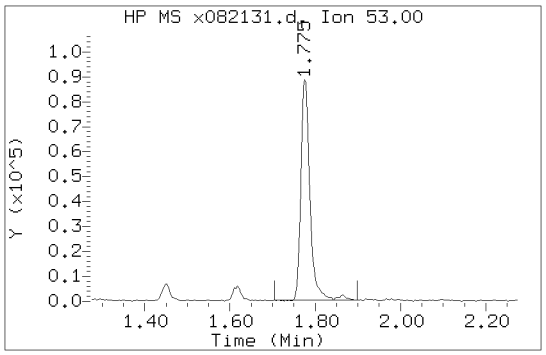
BEFORE

MASS
53
AREA
133842
HEIGHT
88284
22-Aug-2023
09:45



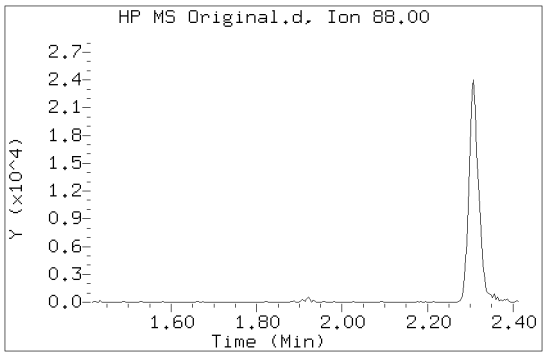
AFTER

MASS
53
AREA
133842
HEIGHT
88284
22-Aug-2023
09:45



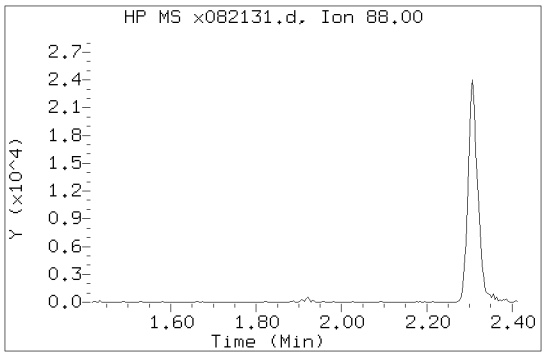
BEFORE

MASS
88
AREA
0
HEIGHT
0
22-Aug-2023
09:45



AFTER

MASS
88
AREA
0
HEIGHT
0
22-Aug-2023
09:45



HS23081040-MSSEMI-SW8270SIM

ALS WO# HS23081040

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Form 1

Organic Analysis Data Sheet

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

Semi-Volatiles by Semivolatiles SIM

HS23081040-01

LH18/24-SP140_081623

Collected	Received	Matrix	Basis
08/16/23 13:00	08/17/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	1.3		0.10	0.10	0.10	10	08/28/23 17:29	SV-6_444955	21.D	199190

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	**HS23081040**	

Semi-Volatiles by Semivolatiles SIM

MBLK-199190	Collected	Received	Matrix	Basis
MBLK-199190	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.030	U	0.010	0.030	0.030	1	08/28/23 15:23	SV-6_444955	14.D	199190

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

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: Groundwater Treatment Plant Quarterly Influent Samples

Workorder: HS23081040

RunID: SV-6-444955

Semi-Volatiles by Semivolatiles SIM

HS23081040-01	Analyzed	Conc Units	Dilution
LH18/24-SP140_081623	08/28/23	%REC	10

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.08	0.08	100.0		40-140
4-Terphenyl-d14	0.08	0.08	100		40-140
Nitrobenzene-d5	0.068	0.08	85.2		40-140

LCS1-199190	Analyzed	Conc Units	Dilution
LCS1-199190	08/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.08498	0.08	106		40-140
4-Terphenyl-d14	0.08771	0.08	110		40-140
Nitrobenzene-d5	0.09846	0.08	123		40-140

LCSD1-199190	Analyzed	Conc Units	Dilution
LCSD1-199190	08/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.1042	0.08	130		40-140
4-Terphenyl-d14	0.08064	0.08	101		40-140
Nitrobenzene-d5	0.09881	0.08	124		40-140

MBLK-199190	Analyzed	Conc Units	Dilution
MBLK-199190	08/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.07044	0.08	88.1		40-140
4-Terphenyl-d14	0.08868	0.08	111		40-140
Nitrobenzene-d5	0.06631	0.08	82.9		40-140

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Form 3B

Laboratory Control Sample Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

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 Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

SAMPLENUM LCS1-199190

Semi-Volatiles by Semivolatiles SIM

SV-6_444955				LCS1-199190			LCSD1-199190					
Spike Matrix	Aqueous		Run Date	08/28/23			08/28/23					
Result Units	ug/L		Run Time	15:41			15:59					
Prep Method	Prep Batch	Prep Date	Data File	15.D			16.D					
SW3510	08/18/23	199190	Prep Amt	1000 mL			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	0.05953	74			0.06571	82		20	9.87	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

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.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	**HS23081040**	

Semi-Volatiles by Semivolatiles SIM

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-199190	14.D	08/28/23 15:23	SV-6_444955
LCS1-199190	LCS	LCS1-199190	15.D	08/28/23 15:41	SV-6_444955
LCSD1-199190	LCSD	LCSD1-199190	16.D	08/28/23 15:59	SV-6_444955
LH18/24-SP140_081623	SAMP	HS23081040-01	21.D	08/28/23 17:29	SV-6_444955

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Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

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 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

RunID SV-6-439923

Semi-Volatiles by Semivolatiles SIM

Tune File 01.D 06/16/23 6/16/2023

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	40.3 (40.3)
68	Less than 2.0% of mass 69	0.5 (1.44) 1
69	Mass 69 RA	32.2 (32.2)
70	Less than 2.0% of mass 69	0.2 (0.502) 1
127	25.0 - 75.0% of mass 198	38.5 (38.5)
197	Less than 1.0% of mass 198	0.5 (0.46)
198	Base peak, 100% RA	100 (83.3)
199	5.0 - 9.0% of mass 198	6.5 (6.46)
275	10.0 - 30.0% of mass 198	25.8 (25.8)
365	Greater than 0.75% of mass 198	3.4 (3.43)
441	Present, but less than mass 443	17.7 (76.4)
442	40.0 - 110.0% of mass 198	120.1 (120)
443	15.0 - 24.0% of mass 442	23.2 (19.3) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	14DXICAL-	ICAL1	6/16/2023	04	14DXICAL-0.01
2	14DXICAL-	ICAL2	6/16/2023	05	14DXICAL-0.03
3	14DXICAL-	ICAL3	6/16/2023	06	14DXICAL-0.05
4	14DXICAL-	ICAL4	6/16/2023	07	14DXICAL-0.08
5	14DXICAL-	ICAL6	6/16/2023	09	14DXICAL-0.15
6	14DXICAL-0.1	ICAL5	6/16/2023	12	14DXICAL-0.1
7	14DXICAL-0.5	ICAL8	6/16/2023	14	14DXICAL-0.5
8	14DXICAL-0.2	ICAL7	6/16/2023	15	14DXICAL-0.2
9	14DXICV-0.08	ICV	6/16/2023	16	14DXICV-0.08

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

RunID SV-6-444955

Semi-Volatiles by Semivolatiles SIM

Tune File 01.D 08/28/23 8/28/2023

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	49.1 (49.12)
68	Less than 2.0% of mass 69	0.6 (1.47) 1
69	Mass 69 RA	39.9 (39.91)
70	Less than 2.0% of mass 69	0.2 (0.48) 1
127	25.0 - 75.0% of mass 198	50.5 (50.52)
197	Less than 1.0% of mass 198	0.5 (0.54)
198	Base peak, 100% RA	100 (100)
199	5.0 - 9.0% of mass 198	6.8 (6.79)
275	10.0 - 30.0% of mass 198	25 (24.97)
365	Greater than 0.75% of mass 198	3.4 (3.4)
441	Present, but less than mass 443	12.8 (75.79)
442	40.0 - 110.0% of mass 198	86.9 (86.92)
443	15.0 - 24.0% of mass 442	16.8 (19.36) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	1 4DX-0.08	CCV	8/28/2023	03	1 4DX-0.08
2	MBLK-199190	MBLK	8/28/2023	05	MBLK-199190
3	LCS-199190	LCS	8/28/2023	06	LCS-199190
4	LCSD-199190	LCSD	8/28/2023	07	LCSD-199190
5	MBLK-199190	MBLK	8/28/2023	14	MBLK-199190
6	LCS1-199190	LCS	8/28/2023	15	LCS1-199190
7	LCSD1-	LCSD	8/28/2023	16	LCSD1-199190
8	HS23081040-	SAMP	8/28/2023	20	LH18/24-SP140_081623
9	HS23081040-	SAMP	8/28/2023	21	LH18/24-SP140_081623
10	1 4DX-CCV	CCV	8/28/2023	24	1 4DX-CCV END

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Form 6

Initial Calibration Data

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

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Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID SV-6_439923

Semi-Volatiles by Semivolatiles SIM

ICAL Start Date 10-MAR-2022 1025
ICAL End Date 16-JUN-2023 1556

Calibration Files

Level 1 ..target\chem\sv6.i\230616.b\04.d
Level 2 ..target\chem\sv6.i\230616.b\05.d
Level 3 ..target\chem\sv6.i\230616.b\06.d
Level 4 ..target\chem\sv6.i\230616.b\07.d
Level 5 ..target\chem\sv6.i\230616.b\12.d
Level 6 ..target\chem\sv6.i\230616.b\09.d
Level 7 ..target\chem\sv6.i\230616.b\15.d
Level 8 ..target\chem\sv6.i\230616.b\14.d

Compound	0.20000 Level 7 0.01000 Level 1	0.50000 Level 8 0.03000 Level 2	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	RRF	%RSD	Q
1,4-Dioxane	0.30124 0.40150	0.32659 0.31193	0.32643	0.34940	0.35892	0.33837	0.33930	9.241	
2-Fluorophenol	0.40150 NE NE	0.31193 NE NE	NE	NE	NE	NE	0.33930 NE	9.241 NE	
13 Phenol-d6	NE NE	NE NE	NE	NE	NE	NE	NE	NE	
33 Nitrobenzene-d5	0.28832 0.34832	0.28035 0.27609	0.30204	0.32108	0.30808	0.30634	0.30383	7.735	
69 2-Fluorobiphenyl	0.98985 1.25227	0.97067 0.94386	0.97876	1.06873	0.97017	1.00640	1.02259	9.764	
105 2,4,6-Tribromophenol	NE NE	NE NE	NE	NE	NE	NE	NE	NE	
158 4-Terphenyl-d14	0.60104 1.00267	0.68127 0.75942	0.64541	0.74244	0.75380	0.71602	0.73776	16.347	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

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Initial Calibration Verification (ICV)

Client	Bhate Environmental Associates, Inc.	**Workorder**	
Project	Groundwater Treatment Plant Quarterly Influent Samples	**HS23081040**	

RunID

SV-6_439923

Semi-Volatiles by Semivolatiles SIM

Sample Matrix	LIQUID	**Fraction**	SV
Lab Smp Id	14DXICV-0.08	**Client Smp ID**	14DXICV-0.08
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	16.D	**Inj Date**	16-JUN-2023 16:22

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.08000	0.07070	88.38	40-140	
Nitrobenzene-d5	0.08000	0.07086	88.57	40-140	
2-Fluorobiphenyl	0.08000	0.08036	100.45	40-140	
4-Terphenyl-d14	0.08000	0.08379	104.74	40-140	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

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Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID SV-6_444955

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 03.D
Analysis Type WATER
Lab Sample ID 1 4DX-0.08

Injection Date 28-AUG-2023 1134
ICAL Date(s) 10-MAR-2022, 16-JUN-2023
ICAL Times 10:25, 15:56
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.30383	0.28332	0.010	-6.74999	20.0	Averaged	
69 2-Fluorobiphenyl	1.02259	1.00494	0.010	-1.72628	20.0	Averaged	
158 4-Terphenyl-d14	0.73776	0.68855	0.010	-6.66999	20.0	Averaged	
1,4-Dioxane	0.33930	0.31289	0.010	-7.78456	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23081040

RunID SV-6_444955

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 24.D
Analysis Type WATER
Lab Sample ID 1 4DX-CCV END

Injection Date 28-AUG-2023 1823
ICAL Date(s) 10-MAR-2022, 16-JUN-2023
ICAL Times 10:25, 15:56
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.30383	0.26818	0.010	-11.73267	20.0	Averaged	
69 2-Fluorobiphenyl	1.02259	0.96690	0.010	-5.44588	20.0	Averaged	
158 4-Terphenyl-d14	0.73776	0.80292	0.010	8.83249	20.0	Averaged	
1,4-Dioxane	0.33930	0.30736	0.010	-9.41341	20.0	Averaged	

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Form 12

Preparation Log

Semi-VolatilesEPA 3510

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

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Form 12 - Preparation Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

RunID 199190

Semi-VolatilesEPA 3510

Prep Batch 199190 **Prep Date** 08/18/23

	Matrix	Type	Client Sample ID	Lab Sample ID	Initial Amt (mL)	Final Amt (mL)
1	Aqueous	MBLK	MBLK-199190	MBLK-199190	1000	1
2	Aqueous	LCS	LCS1-199190	LCS1-199190	1000	1
3	Aqueous	LCSD	LCSD1-199190	LCSD1-199190	1000	1
4	Water	SAMP	LH18/24-SP140_081623	HS23081040-01	1000	1

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Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23081040

RunID
SV-6-439923

Semi-Volatiles by Semivolatiles SIM

Run ID SV-6_439923 **Start Date** 06/16/23 **EndDate** 06/16/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:28	DFTPP	TUNE	DFTPP	01.D	06/16/23	1
11:08	14DXICAL-0.01	ICAL1	14DXICAL-0.01	04.D	06/16/23	1
11:26	14DXICAL-0.03	ICAL2	14DXICAL-0.03	05.D	06/16/23	1
11:44	14DXICAL-0.05	ICAL3	14DXICAL-0.05	06.D	06/16/23	1
12:02	14DXICAL-0.08	ICAL4	14DXICAL-0.08	07.D	06/16/23	1
12:38	14DXICAL-0.15	ICAL6	14DXICAL-0.15	09.D	06/16/23	1
14:15	14DXICAL-0.1	ICAL5	14DXICAL-0.1	12.D	06/16/23	1
14:51	14DXICAL-0.5	ICAL8	14DXICAL-0.5	14.D	06/16/23	1
15:56	14DXICAL-0.2	ICAL7	14DXICAL-0.2	15.D	06/16/23	1
16:22	14DXICV-0.08	ICV	14DXICV-0.08	16.D	06/16/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23081040**

RunID SV-6-444955

Semi-Volatiles by Semivolatiles SIM

Run ID SV-6_444955 **Start Date** 08/28/23 **EndDate** 08/28/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:46	DFTPP	TUNE	DFTPP	01.D	08/28/23	1
11:34	1 4DX-0.08	CCV	1 4DX-0.08	03.D	08/28/23	1
12:29	MBLK-199190	MBLK	MBLK-199190	05.D	08/28/23	1
12:50	LCS-199190	LCS	LCS-199190	06.D	08/28/23	1
13:10	LCSD-199190	LCSD	LCSD-199190	07.D	08/28/23	1
13:30	HS23081084-03	SAMP	ZZZZZZZZZZ	08.D	08/28/23	1
13:50	HS23081087-03	SAMP	ZZZZZZZZZZ	09.D	08/28/23	1
14:11	HS23080787-01	SAMP	ZZZZZZZZZZ	10.D	08/28/23	1
14:29	HS23080787-02	SAMP	ZZZZZZZZZZ	11.D	08/28/23	1
14:47	HS23080787-03	SAMP	ZZZZZZZZZZ	12.D	08/28/23	1
15:05	HS23080787-04	SAMP	ZZZZZZZZZZ	13.D	08/28/23	1
15:23	MBLK-199190	MBLK	MBLK-199190	14.D	08/28/23	1
15:41	LCS1-199190	LCS	LCS1-199190	15.D	08/28/23	1
15:59	LCSD1-199190	LCSD	LCSD1-199190	16.D	08/28/23	1
17:11	HS23081040-01	SAMP	LH18/24-	20.D	08/28/23	1
17:29	HS23081040-01	SAMP	LH18/24-	21.D	08/28/23	10
17:47	HS23081076-01	SAMP	ZZZZZZZZZZ	22.D	08/28/23	1
18:05	HS23081076-01	SAMP	ZZZZZZZZZZ	23.D	08/28/23	5
18:23	1 4DX-CCV END	CCV	1 4DX-CCV END	24.D	08/28/23	1

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Raw Data SV 6 439923

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

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Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
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Data File: \\nahstws005\Target\chem\SV6.i\230616.b\01.D Page 1
Report Date: 16-Jun-2023 09:41

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230616.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 16-JUN-2023 09:28
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230616.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

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		
5.009	6.357	-1.348	198	573312			0.00- 100.00	83.28
5.009	6.357	-1.348	51	231176			10.00- 80.00	40.32
5.009	6.357	-1.348	68	2654			0.00- 2.00	1.44
5.009	6.357	-1.348	69	184729			0.00- 0.00	32.22
5.009	6.357	-1.348	70	927			0.00- 2.00	0.50
5.009	6.357	-1.348	127	220864			10.00- 80.00	38.52
5.009	6.357	-1.348	197	2637			0.00- 2.00	0.46
5.009	6.357	-1.348	199	37040			5.00- 9.00	6.46
5.009	6.357	-1.348	275	147776			10.00- 60.00	25.78
5.009	6.357	-1.348	365	19688			1.00- 100.00	3.43
5.009	6.357	-1.348	441	101568			0.01- 99.99	76.45
5.009	6.357	-1.348	442	688448			50.00- 150.00	120.08
5.009	6.357	-1.348	443	132864			15.00- 24.00	19.30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	40.32
68	Less than 2.00% of mass 69	0.46 (1.44)
69	Mass 69 relative abundance	32.22
70	Less than 2.00% of mass 69	0.16 (0.50)
127	10.00 - 80.00% of mass 198	38.52
197	Less than 2.00% of mass 198	0.46
199	5.00 - 9.00% of mass 198	6.46
275	10.00 - 60.00% of mass 198	25.78
365	1.00 - 100.00% of mass 198	3.43
441	Present, but less than mass 443	17.72
442	50.00 - 150.00% of mass 198	120.08
443	15.00 - 24.00% of mass 442	23.17 (19.30)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 453: 5.010 min. (SUB)
Location of Maximum: 442.10
Number of points: 316

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	691	128.10	16159	209.00	1513	297.00	5492
38.00	1909	129.00	84336	210.10	2201	298.00	365
39.10	12523	130.00	6769	211.00	6102	301.00	640
40.00	181	131.00	1444	213.00	401	302.00	602
40.90	276	132.10	794	214.00	192	303.10	4693
45.00	312	133.10	248	215.00	1503	304.00	1179
49.00	1051	134.00	2156	216.00	2932	304.90	175
50.10	53200	135.00	6519	217.00	39448	308.00	557
51.10	231168	136.00	2427	218.00	4584	309.00	385
52.10	12049	137.10	3257	219.00	408	310.00	461
53.00	444	138.10	689	221.10	31488	311.10	249
55.00	841	139.00	436	221.70	5812	311.90	184
56.00	6699	140.00	864	223.00	9377	312.90	383
57.00	16176	141.00	10733	224.10	87680	314.00	1739
58.00	734	142.00	3754	225.10	21984	315.00	3954
61.00	2603	143.00	2343	226.00	2230	316.10	2781
62.00	2746	144.00	787	227.00	33024	317.00	633
63.00	8959	145.00	657	228.00	4457	319.90	232
64.00	1134	146.10	1823	229.00	7608	321.00	1268
65.10	3754	147.00	5380	230.00	950	322.00	605
66.20	170	148.00	12478	231.00	3201	323.10	14516
66.90	176	149.00	2115	232.00	487	324.00	2985
68.00	2654	150.00	633	233.00	674	325.00	302
69.00	184704	151.60	2531	234.00	1838	326.00	247
70.00	927	152.00	808	235.00	2392	327.00	2521
71.10	180	153.00	3358	236.00	1374	328.00	1205
73.00	1217	154.00	2616	237.00	2292	329.00	338
74.00	17520	155.00	6177	238.00	338	332.00	1141
75.00	28192	156.10	9411	239.00	1122	333.00	1368
76.10	9960	157.00	2001	240.00	936	334.10	8776
77.10	218880	158.00	2113	241.00	1871	335.00	2203
78.10	13466	159.00	1675	242.00	4359	336.00	187
79.00	12046	160.10	3244	243.10	4502	339.10	380
80.00	9791	161.00	5606	244.10	67632	339.90	281
81.00	14216	162.00	1730	245.10	8922	341.00	1623
82.00	3653	163.00	400	246.00	11263	342.10	476
83.00	3381	164.00	727	247.00	2407	346.00	2738
84.00	184	165.00	4330	248.10	663	347.00	596
85.00	2227	166.00	3419	249.00	2399	350.90	220
86.00	3237	167.00	24512	250.00	534	352.10	4359
87.00	1991	168.00	9507	251.00	626	353.00	3284
88.00	676	169.10	1791	252.00	592	354.10	4838
89.00	341	170.00	842	253.00	1532	355.00	896
91.00	2912	170.90	1000	254.00	2136	359.00	467
92.00	3110	172.00	2269	255.00	354304	365.00	19688

93.00	21304	173.10	2549	256.00	51136	366.00	2752
94.00	1218	174.00	5175	257.00	3611	370.10	513
95.00	484	175.00	9799	258.00	18768	371.00	1054
96.00	924	176.00	2683	259.00	3038	372.00	8081
97.10	374	177.00	3904	260.00	415	373.10	1766
98.00	16345	178.00	1303	261.00	547	374.00	321
99.00	11441	179.00	17472	263.00	216	377.00	254
100.00	1118	180.00	12918	264.00	482	383.00	2280
101.00	8931	181.00	6121	265.00	7562	384.00	529
101.90	481	182.10	939	266.00	1247	385.00	199
103.00	2466	183.00	711	267.90	202	390.10	1132
104.00	4787	184.00	1198	270.00	419	391.00	640
105.00	4856	185.10	9374	270.90	595	392.00	528
106.00	1473	186.10	74288	272.00	859	401.00	506
107.00	67952	187.10	20504	273.00	9955	402.00	3420
108.00	9807	188.00	2068	274.00	26688	403.00	5432
109.00	1838	189.00	3837	275.00	147776	404.00	1627
110.00	123544	189.90	682	276.10	18968	405.00	236
111.00	17696	191.00	2262	277.00	11809	415.00	201
112.00	1819	192.00	6230	278.00	1774	421.00	5131
112.90	638	193.10	7049	279.00	482	422.00	3941
114.00	179	194.00	1444	280.90	159	423.00	33192
114.80	238	195.00	1036	282.00	357	424.00	5796
116.00	3334	196.10	15513	283.00	1383	425.00	632
117.00	50184	197.00	2637	284.00	975	434.00	155
118.10	3139	198.00	573312	285.00	2248	436.70	155
119.00	504	199.00	37040	286.10	556	441.10	101568
120.00	697	200.00	3218	289.00	393	442.10	688448
121.00	285	201.50	2802	290.00	552	443.10	132864
122.00	4036	203.00	3916	291.00	367	444.10	12072
123.10	5628	204.00	19400	291.90	558	445.00	733
124.00	2843	205.10	32656	293.00	2916		
125.00	2735	206.10	146944	294.00	680		
126.10	975	207.10	18016	295.00	908		
127.00	220864	208.10	4201	296.00	40008		

Data File: \\nahstws005\target\chem\sv6.i\230616.b\01.d Page 1

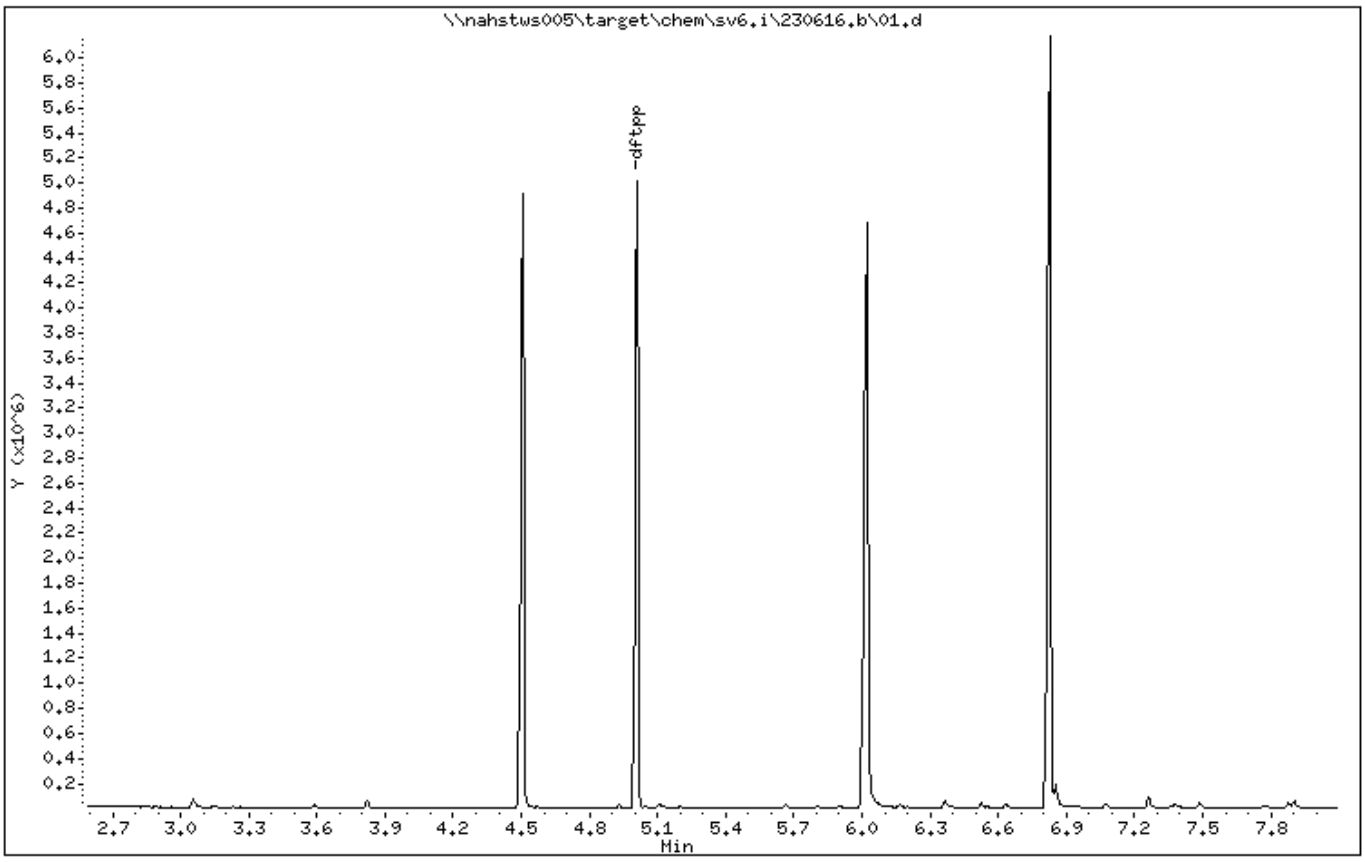
Date : 16-JUN-2023 09:28

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\230616.b\01.d
Inj Date : 16-JUN-2023 09:28
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Lab Smp Id: 14DXICAL-0.01 Client Smp ID: 14DXICAL-0.01
Inj Date : 16-JUN-2023 11:08
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	5079	0.10000	(a)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	17862	0.10000	
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	515	0.01000	0.009537(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10143	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	1004	0.01000	0.009665(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	20228	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	14841	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.909	(0.889)	892	0.01000	0.008235(M)
* 198 Perylene-d12	264	11.945	11.945	(1.000)	14498	0.10000	(M)
1 1,4-Dioxane	58	1.486	1.486	(0.475)	153	0.01000	0.008943(aQM)

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.

01250582

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D

Date : 16-JUN-2023 11:08

Client ID: 14DXICAL-0.01

Instrument: SV6.i

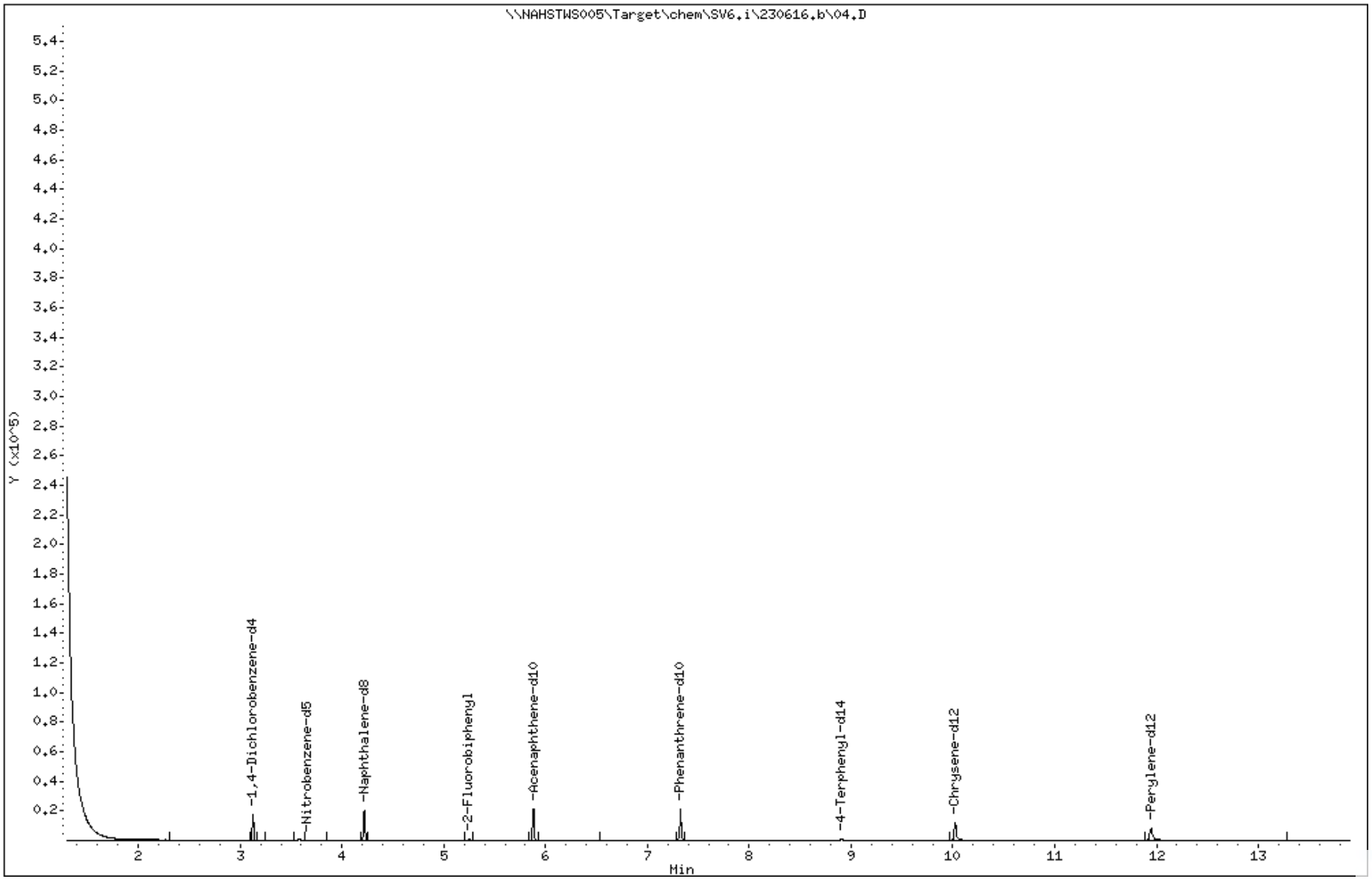
Sample Info: 14DXICAL-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



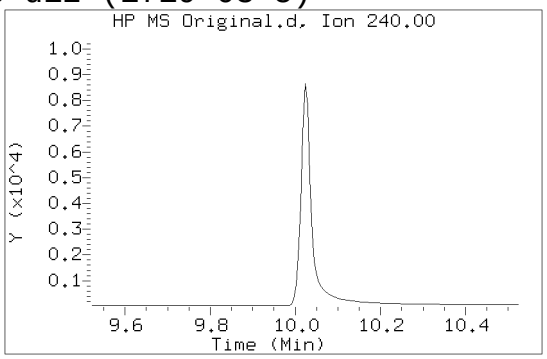
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Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Chrysene-d12 (1719-03-5)

Reason Code:

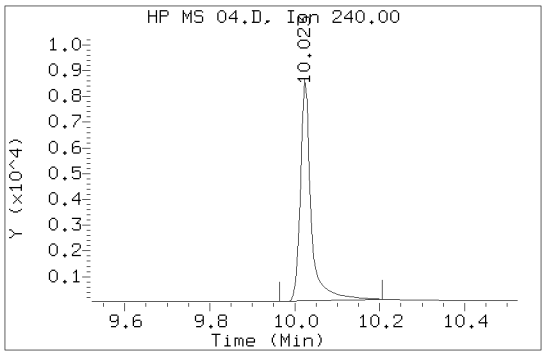
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



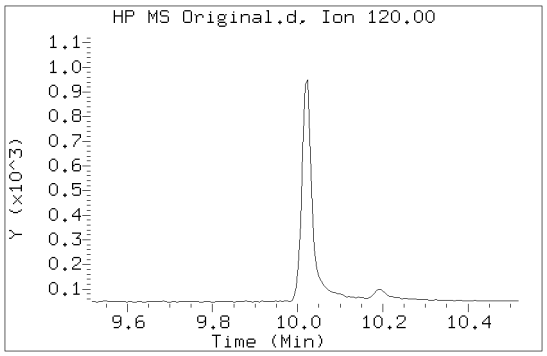
AFTER

MASS
240
AREA
14841
HEIGHT
8583
29-Jun-2023
14:26
ALSHS
Ser



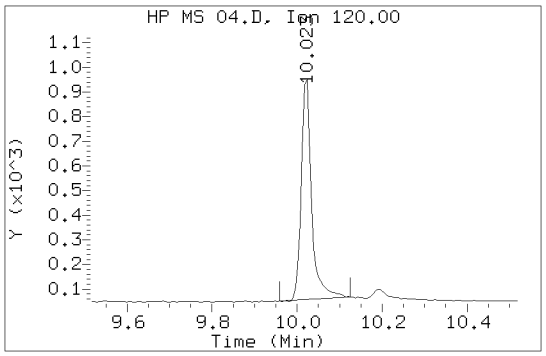
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



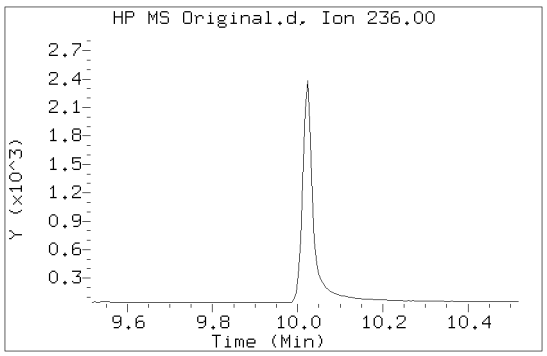
AFTER

MASS
120
AREA
1504
HEIGHT
891
29-Jun-2023
14:26
ALSHS
Ser



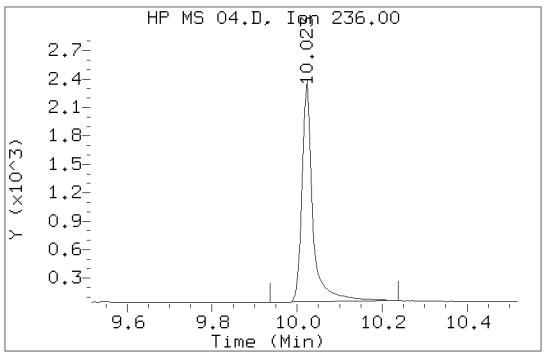
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
236
AREA
4047
HEIGHT
2330
29-Jun-2023
14:26
ALSHS
Ser

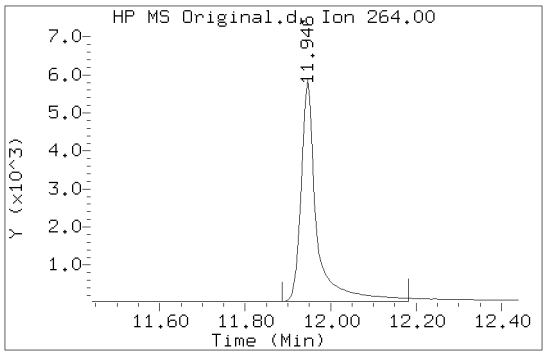


Perylene-d12 (1520-96-3)

Reason Code:

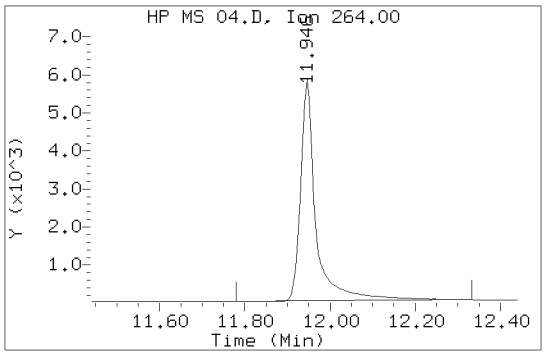
BEFORE

MASS
264
AREA
14674
HEIGHT
5826
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
264
AREA
14498
HEIGHT
5814
29-Jun-2023
14:26
ALSHS
Ser



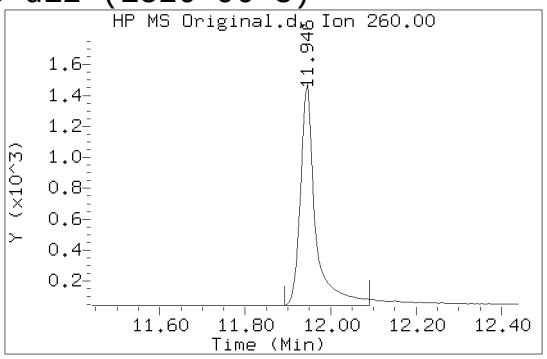
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Perylene-d12 (1520-96-3)

Reason Code:

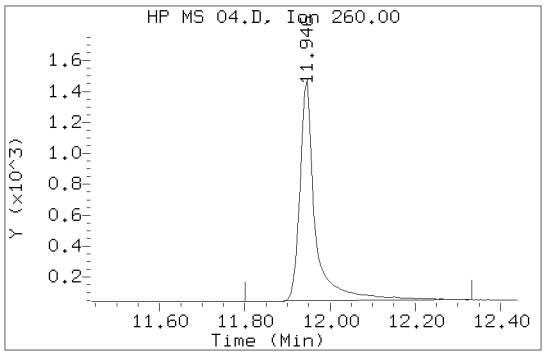
BEFORE

MASS
260
AREA
3461
HEIGHT
1431
16-Jun-2023
11:24
ALSHS
Server



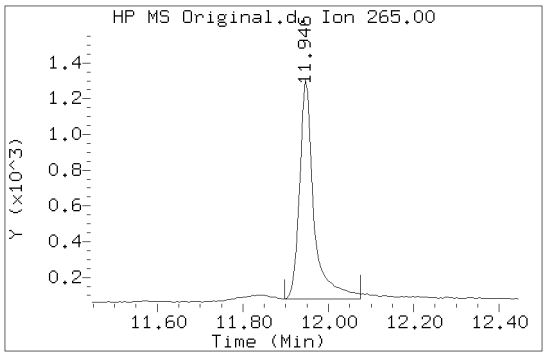
AFTER

MASS
260
AREA
3563
HEIGHT
1428
29-Jun-2023
14:26
ALSHS
Ser



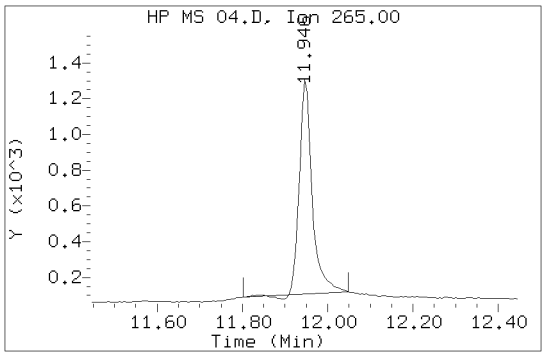
BEFORE

MASS
265
AREA
2841
HEIGHT
1225
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
265
AREA
2485
HEIGHT
1196
29-Jun-2023
14:26
ALSHS
Ser

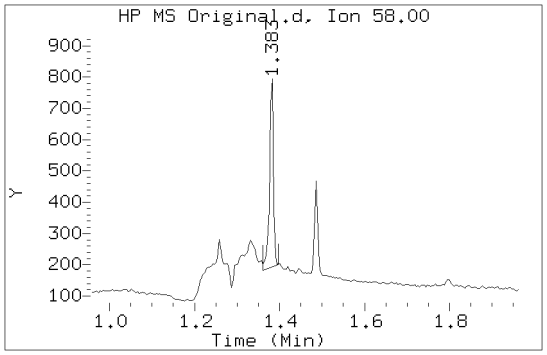


1,4-Dioxane ()

Reason Code:

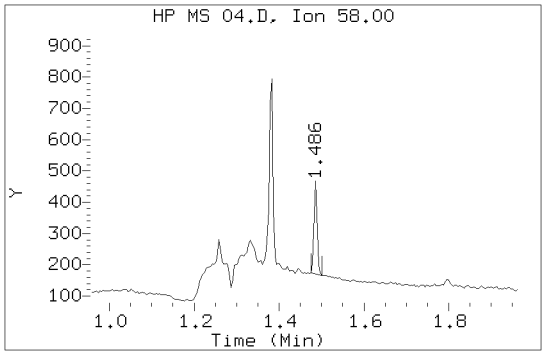
BEFORE

MASS
58
AREA
375
HEIGHT
599
16-Jun-2023
11:24
ALSHS
Server



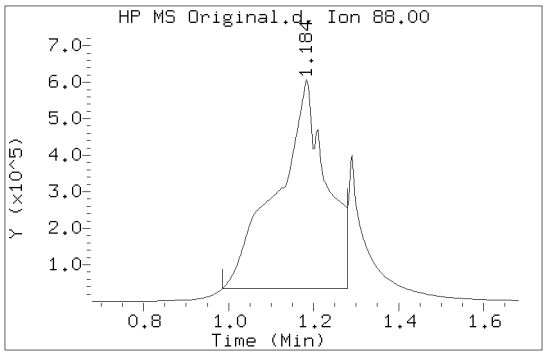
AFTER

MASS
58
AREA
153
HEIGHT
296
29-Jun-2023
14:26
ALSHS
Ser



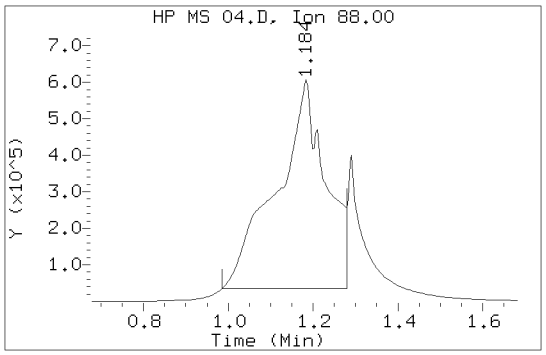
BEFORE

MASS
88
AREA
4618745
HEIGHT
572488
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
88
AREA
4618745
HEIGHT
572488
29-Jun-2023
14:26
ALSHS
Ser



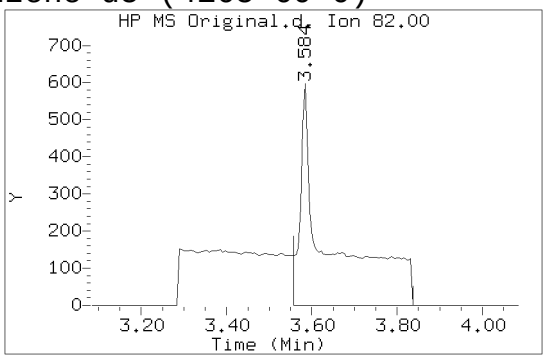
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

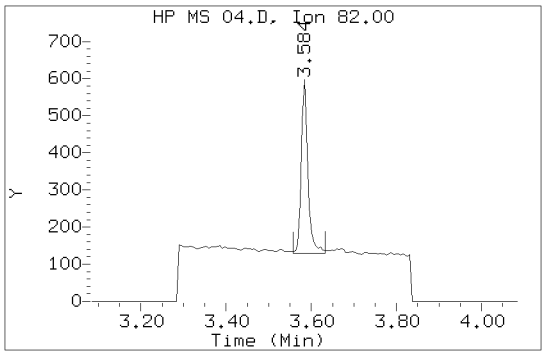
BEFORE

MASS
82
AREA
2695
HEIGHT
597
16-Jun-2023
11:24
ALSHS
Server



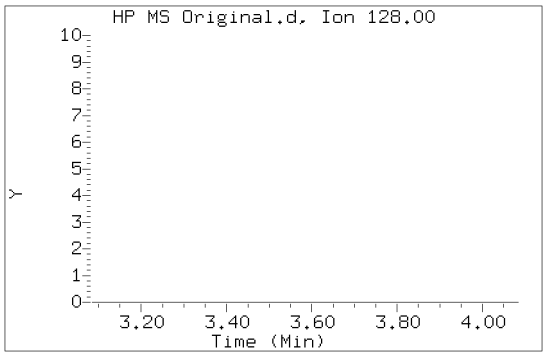
AFTER

MASS
82
AREA
515
HEIGHT
468
29-Jun-2023
14:26
ALSHS
Ser



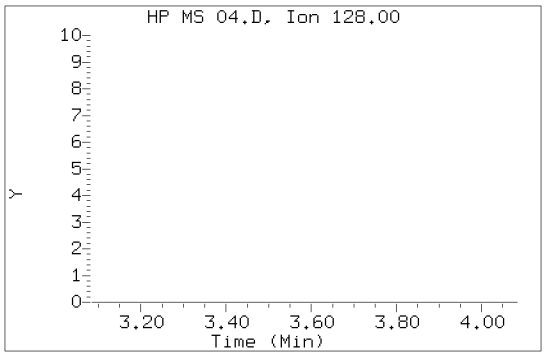
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



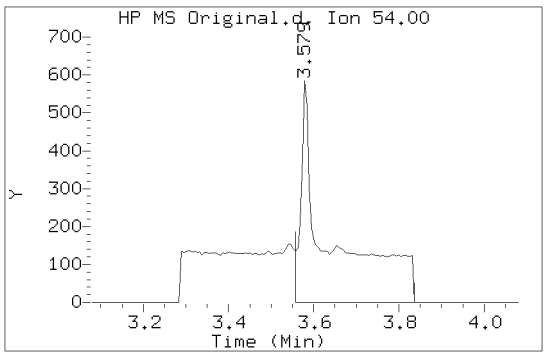
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



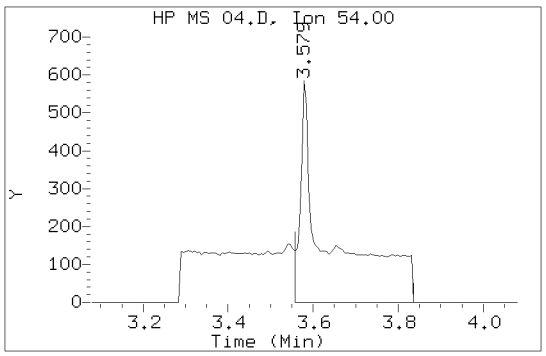
BEFORE

MASS
54
AREA
2634
HEIGHT
585
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
54
AREA
2634
HEIGHT
585
29-Jun-2023
14:26
ALSHS
Ser

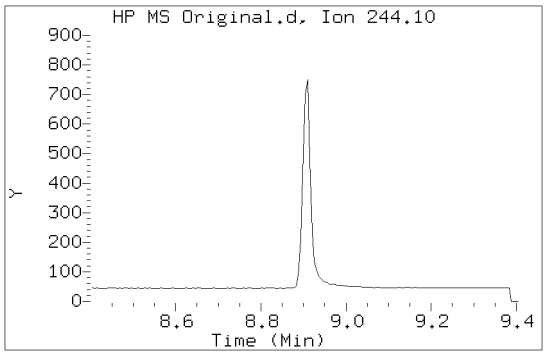


4-Terphenyl-d14 (1718-51-0)

Reason Code:

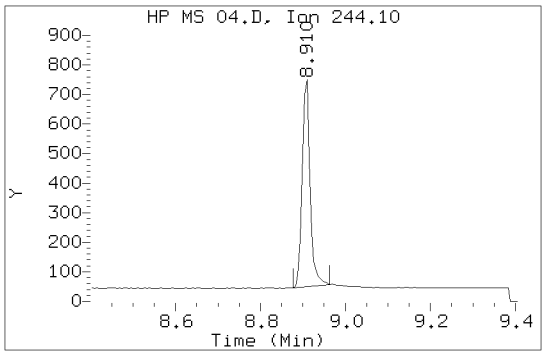
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
244.1
AREA
892
HEIGHT
699
29-Jun-2023
14:26
ALSHS
Ser



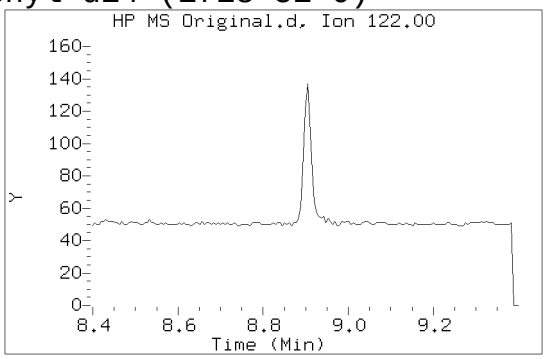
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

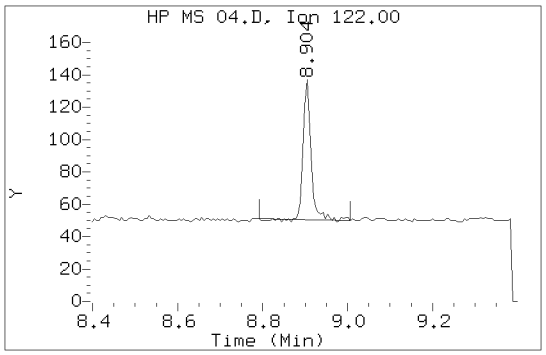
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



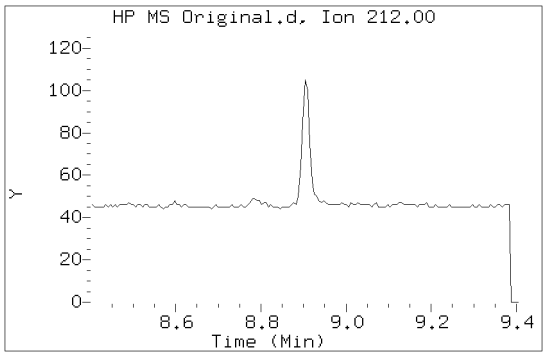
AFTER

MASS
122
AREA
109
HEIGHT
86
29-Jun-2023
14:26
ALSHS
Ser



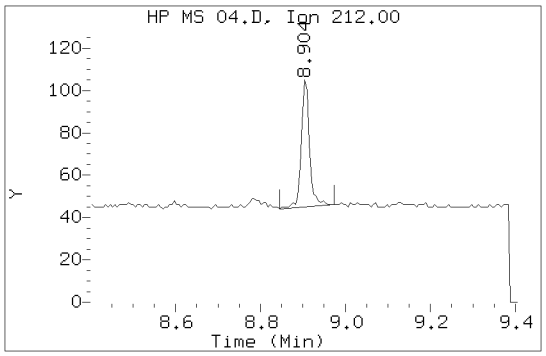
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
212
AREA
80
HEIGHT
60
29-Jun-2023
14:26
ALSHS
Ser

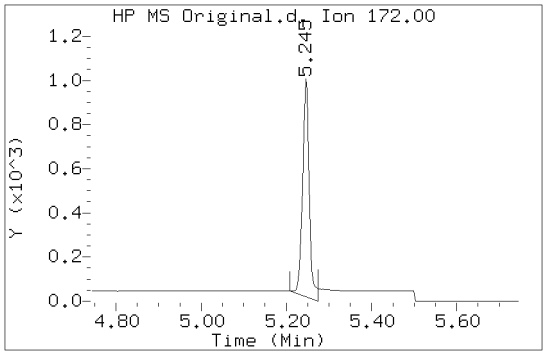


2-Fluorobiphenyl (321-60-8)

Reason Code:

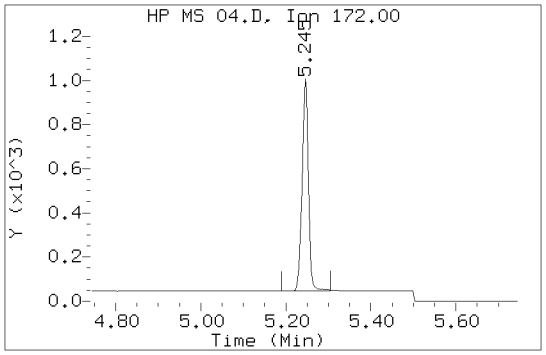
BEFORE

MASS
172
AREA
1093
HEIGHT
986
16-Jun-2023
11:24
ALSHS
Server



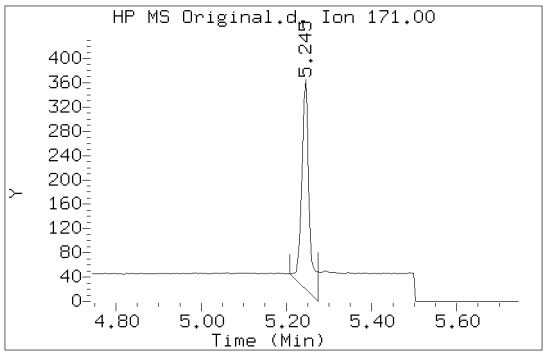
AFTER

MASS
172
AREA
1004
HEIGHT
960
29-Jun-2023
14:26
ALSHS
Ser



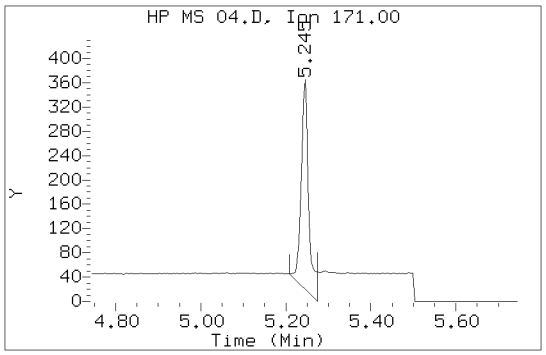
BEFORE

MASS
171
AREA
428
HEIGHT
345
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
171
AREA
428
HEIGHT
345
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Lab Smp Id: 14DXICAL-0.03 Client Smp ID: 14DXICAL-0.03
Inj Date : 16-JUN-2023 11:26
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:08 Cal File: 04.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	4348	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	14672	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	1234	0.03000	0.02782(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	8616	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	2509	0.03000	0.02843(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	16998	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	11821	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.888)	2416	0.03000	0.02800(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	10677	0.10000	(M)
1 1,4-Dioxane	58	1.467	1.467	(0.469)	426	0.03000	0.02909(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.

01250588

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D

Date : 16-JUN-2023 11:26

Client ID: 14DXICAL-0.03

Instrument: SV6.i

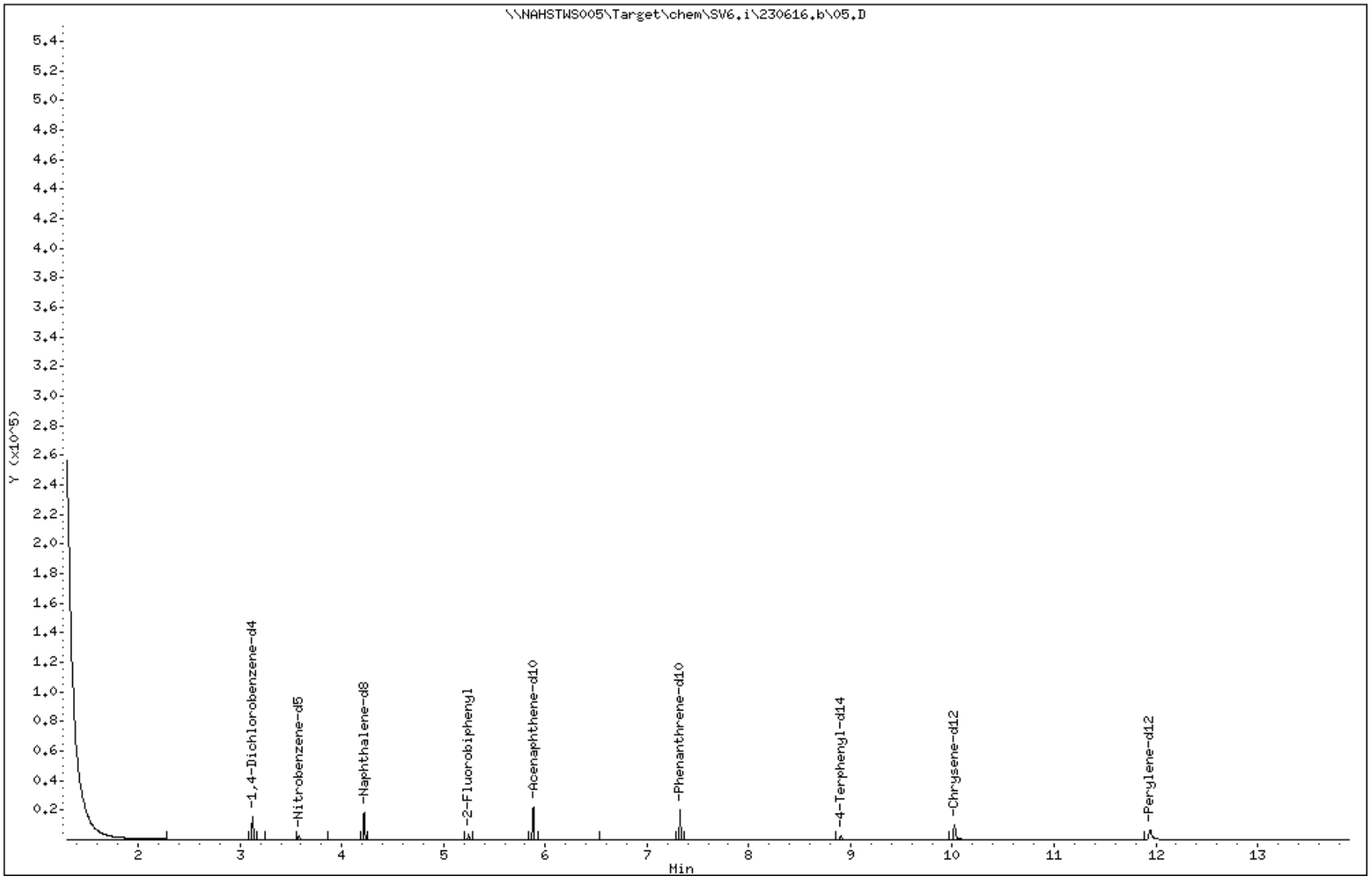
Sample Info: 14DXICAL-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



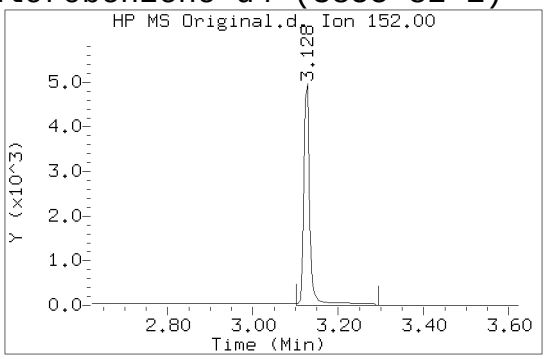
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

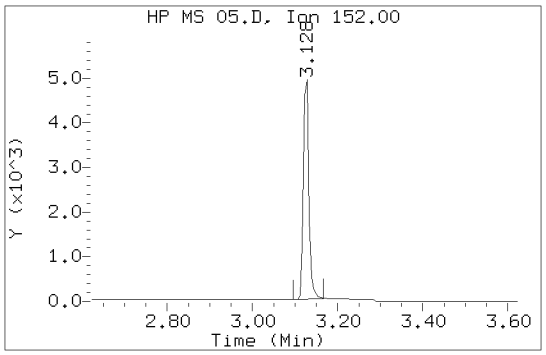
BEFORE

MASS
152
AREA
4935
HEIGHT
4966
16-Jun-2023
11:42
ALSHS
Server



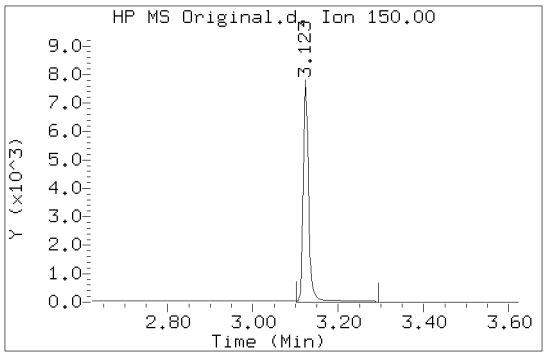
AFTER

MASS
152
AREA
4348
HEIGHT
4916
29-Jun-2023
14:26
ALSHS
Ser



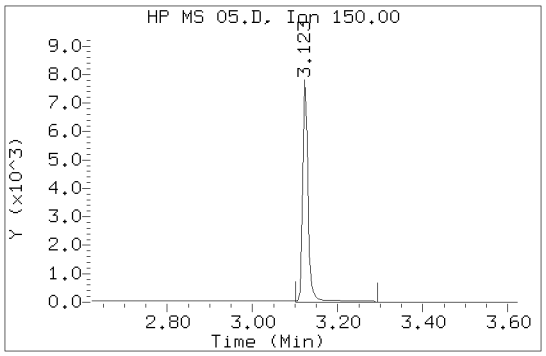
BEFORE

MASS
150
AREA
6954
HEIGHT
7812
16-Jun-2023
11:42
ALSHS
Server



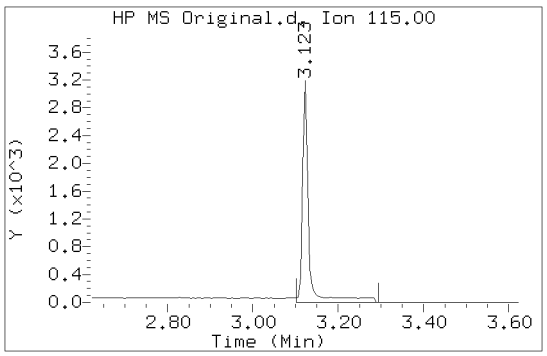
AFTER

MASS
150
AREA
6954
HEIGHT
7812
29-Jun-2023
14:26
ALSHS
Ser



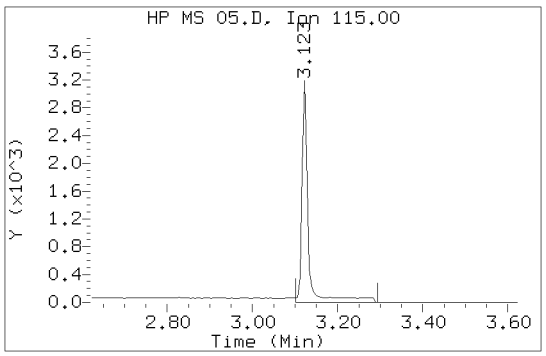
BEFORE

MASS
115
AREA
3189
HEIGHT
3190
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
115
AREA
3189
HEIGHT
3190
29-Jun-2023
14:26
ALSHS
Ser

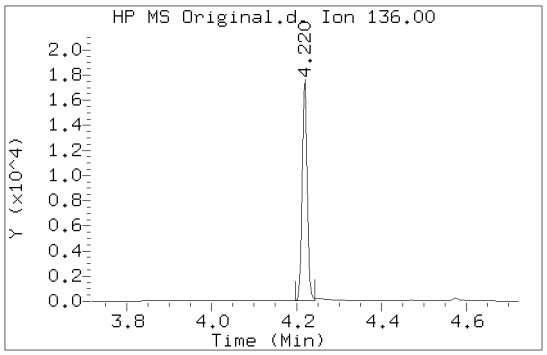


Naphthalene-d8 (1146-65-2)

Reason Code:

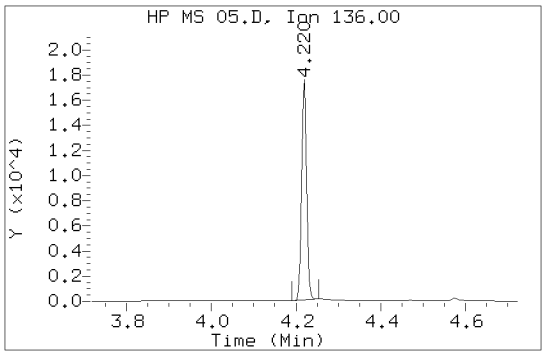
BEFORE

MASS
136
AREA
14851
HEIGHT
17567
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
136
AREA
14672
HEIGHT
17505
29-Jun-2023
14:26
ALSHS
Ser



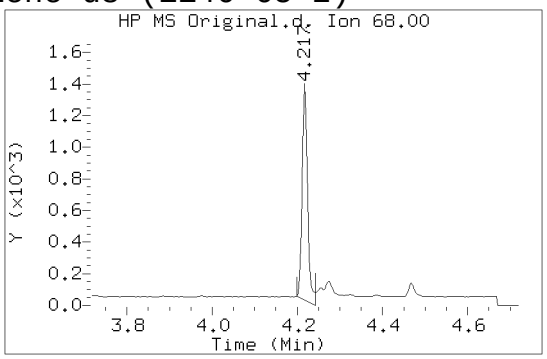
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Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

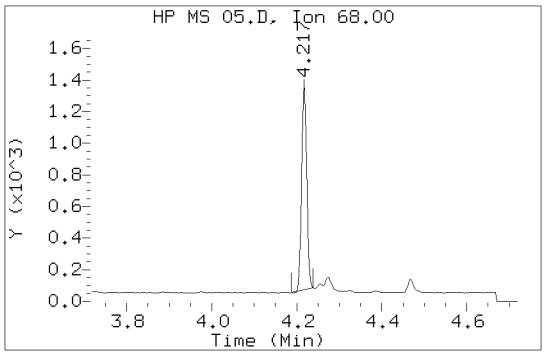
BEFORE

MASS
68
AREA
1196
HEIGHT
1368
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
68
AREA
1062
HEIGHT
1328
29-Jun-2023
14:26
ALSHS
Ser

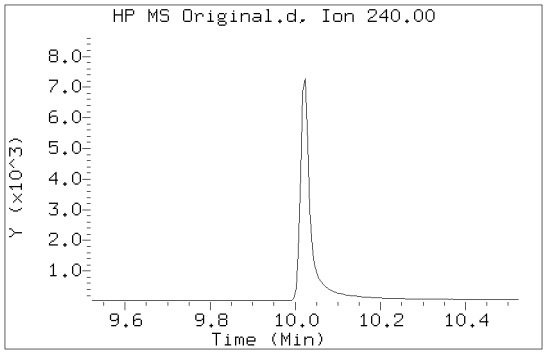


Chrysene-d12 (1719-03-5)

Reason Code:

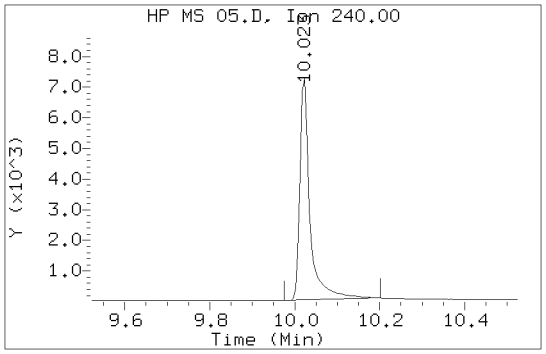
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



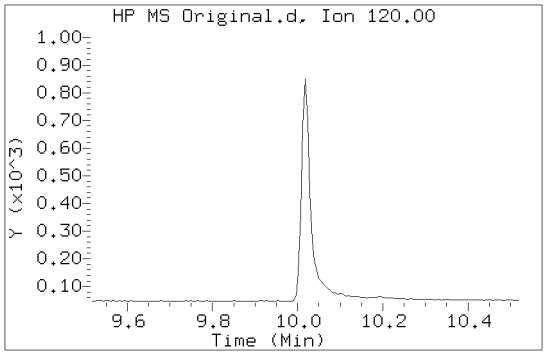
AFTER

MASS
240
AREA
11821
HEIGHT
7215
29-Jun-2023
14:26
ALSHS
Ser



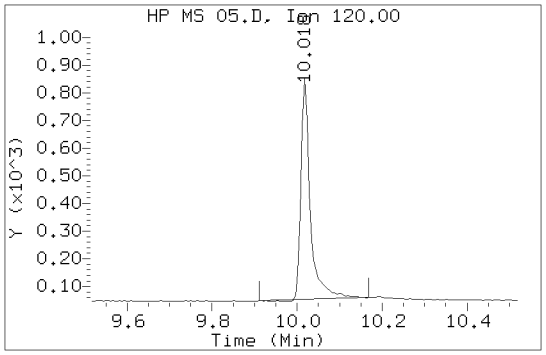
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



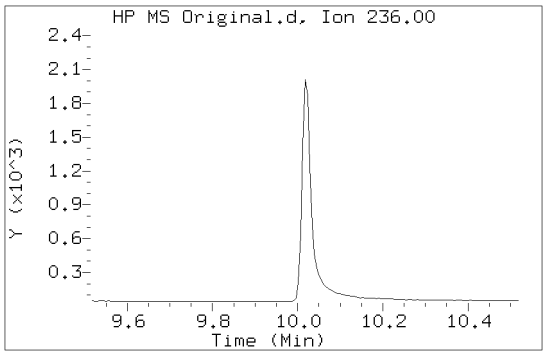
AFTER

MASS
120
AREA
1207
HEIGHT
796
29-Jun-2023
14:26
ALSHS
Ser



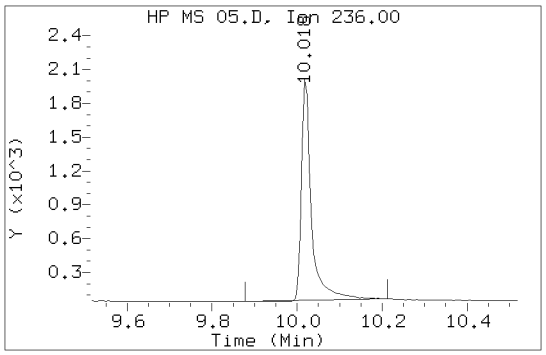
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
236
AREA
3185
HEIGHT
1956
29-Jun-2023
14:26
ALSHS
Ser



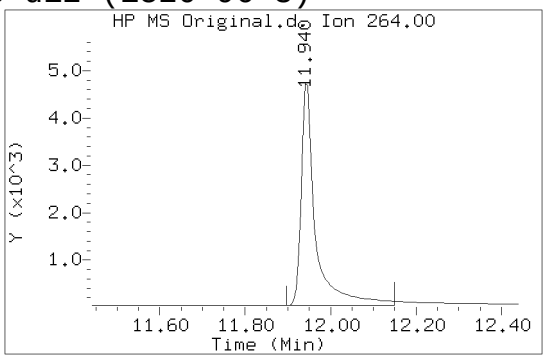
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Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

Perylene-d12 (1520-96-3)

Reason Code:

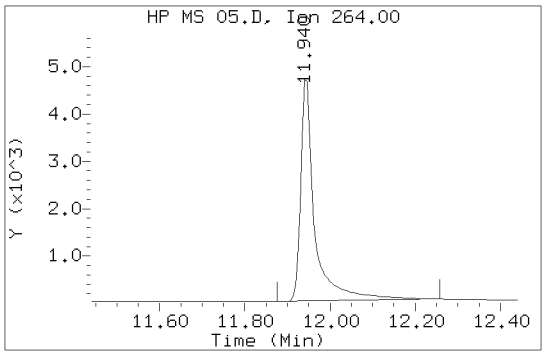
BEFORE

MASS
264
AREA
10829
HEIGHT
4681
16-Jun-2023
11:42
ALSHS
Server



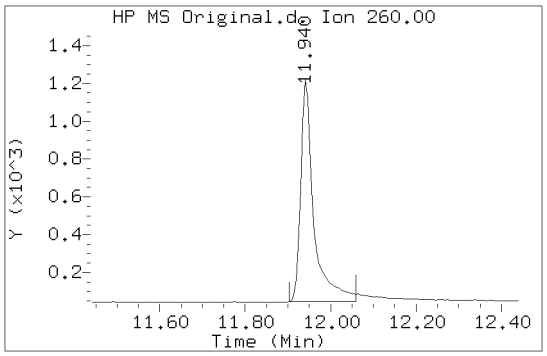
AFTER

MASS
264
AREA
10677
HEIGHT
4673
29-Jun-2023
14:26
ALSHS
Ser



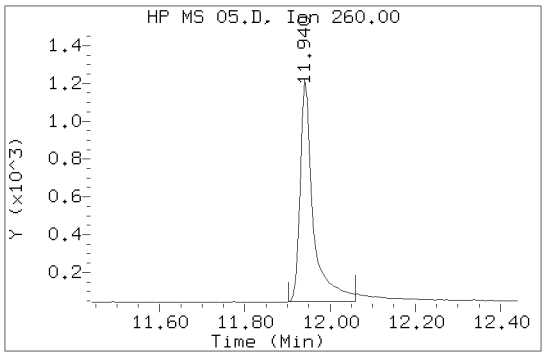
BEFORE

MASS
260
AREA
2488
HEIGHT
1174
16-Jun-2023
11:42
ALSHS
Server



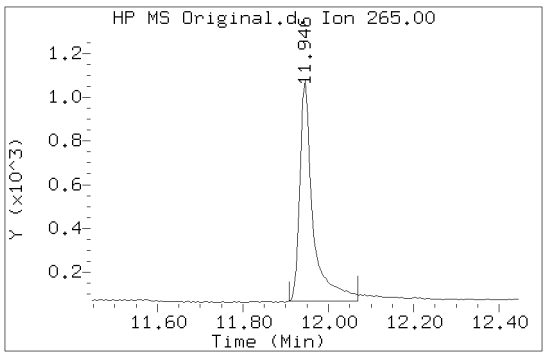
AFTER

MASS
260
AREA
2488
HEIGHT
1174
29-Jun-2023
14:26
ALSHS
Ser



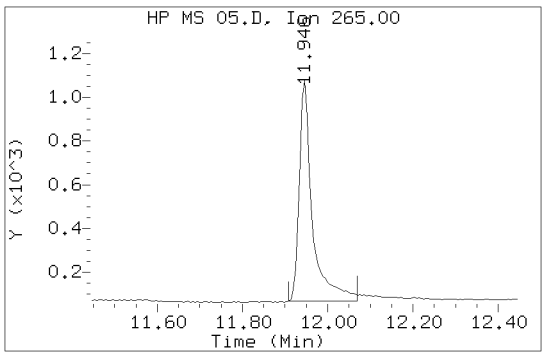
BEFORE

MASS
265
AREA
2154
HEIGHT
1009
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
265
AREA
2154
HEIGHT
1009
29-Jun-2023
14:26
ALSHS
Ser

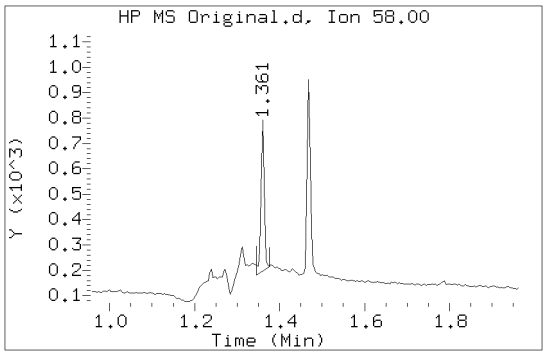


1,4-Dioxane ()

Reason Code:

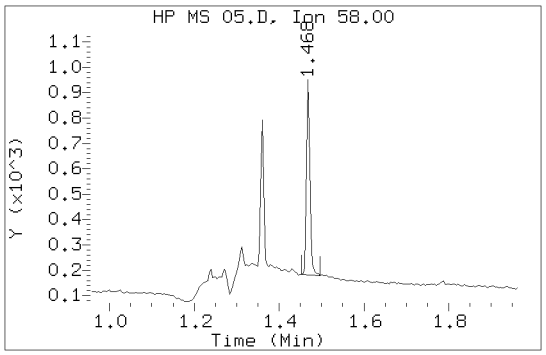
BEFORE

MASS
58
AREA
319
HEIGHT
594
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
58
AREA
426
HEIGHT
768
29-Jun-2023
14:26
ALSHS
Ser



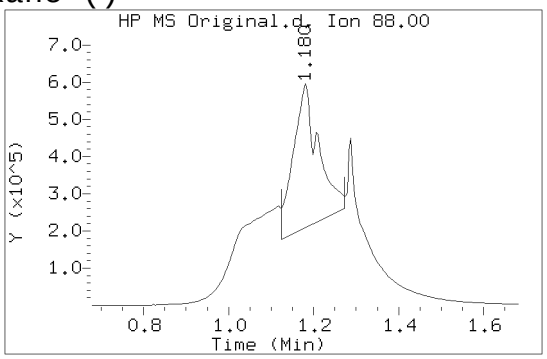
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

1,4-Dioxane ()

Reason Code:

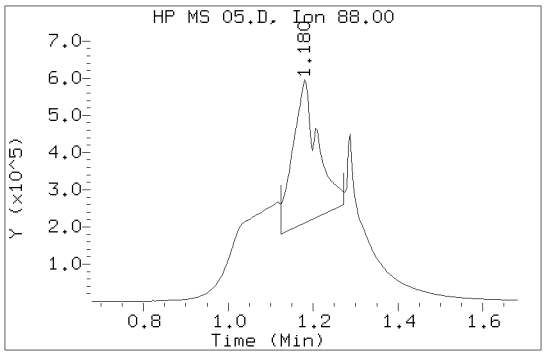
BEFORE

MASS
88
AREA
1599767
HEIGHT
386587
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
88
AREA
1591467
HEIGHT
385442
29-Jun-2023
14:26
ALSHS
Ser

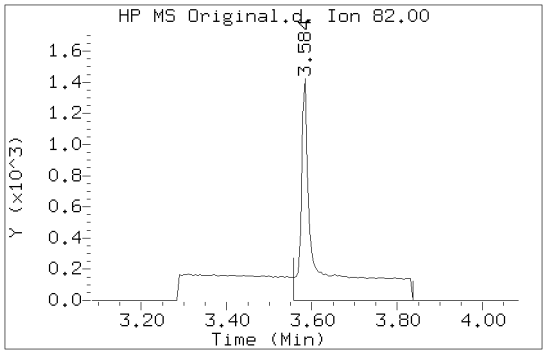


Nitrobenzene-d5 (4165-60-0)

Reason Code:

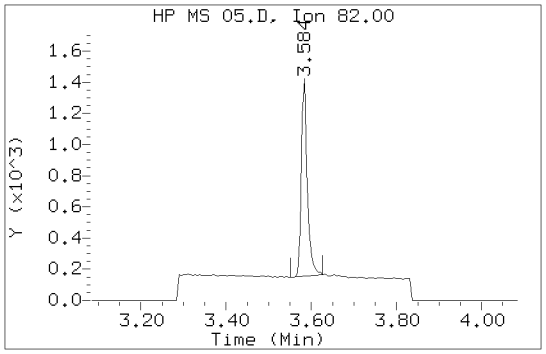
BEFORE

MASS
82
AREA
3739
HEIGHT
1423
16-Jun-2023
11:42
ALSHS
Server



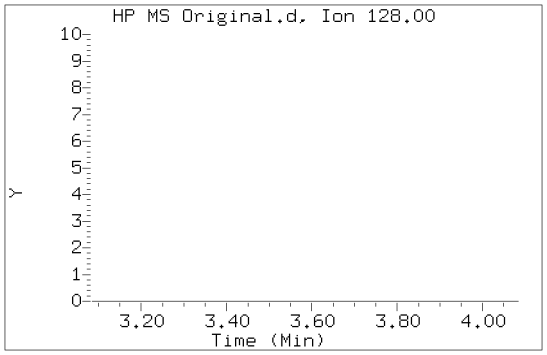
AFTER

MASS
82
AREA
1234
HEIGHT
1266
29-Jun-2023
14:26
ALSHS
Ser



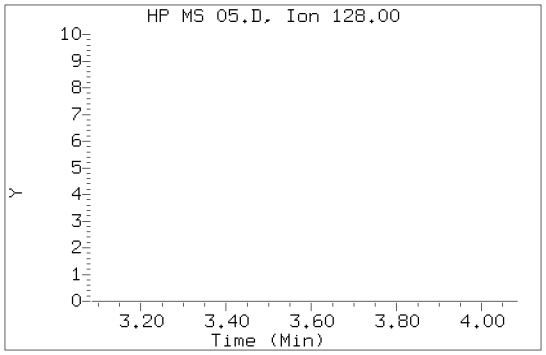
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



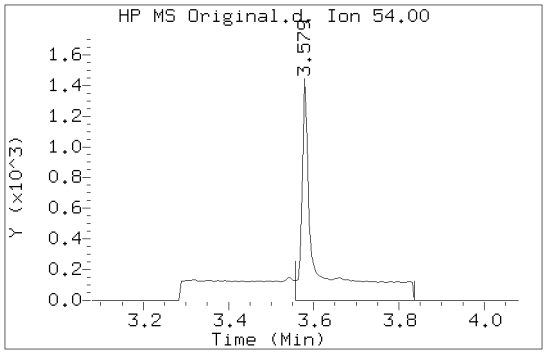
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



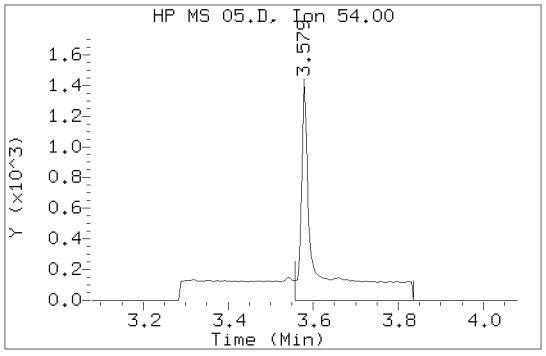
BEFORE

MASS
54
AREA
3364
HEIGHT
1444
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
54
AREA
3364
HEIGHT
1444
29-Jun-2023
14:26
ALSHS
Ser



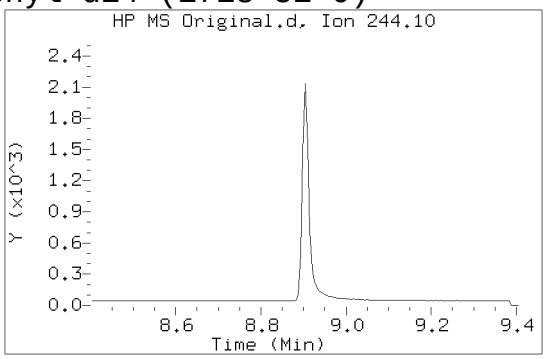
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

4-Terphenyl-d14 (1718-51-0)

Reason Code:

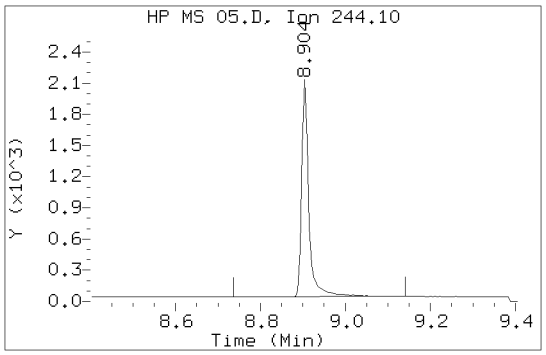
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



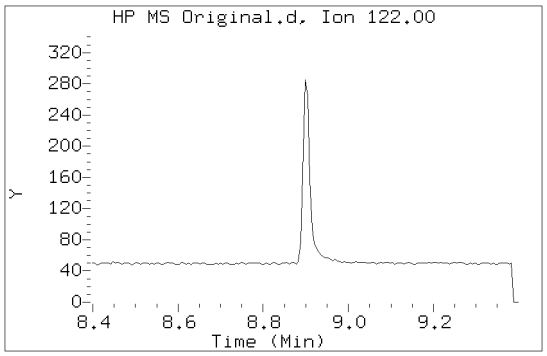
AFTER

MASS
244.1
AREA
2416
HEIGHT
2087
29-Jun-2023
14:26
ALSHS
Ser



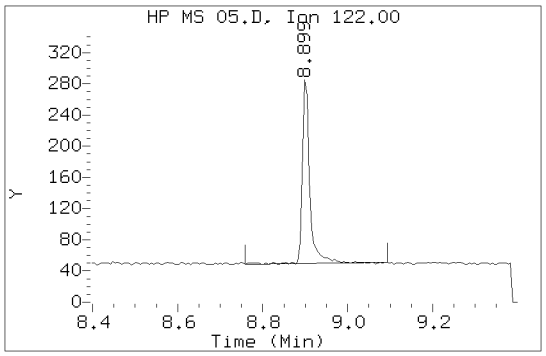
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



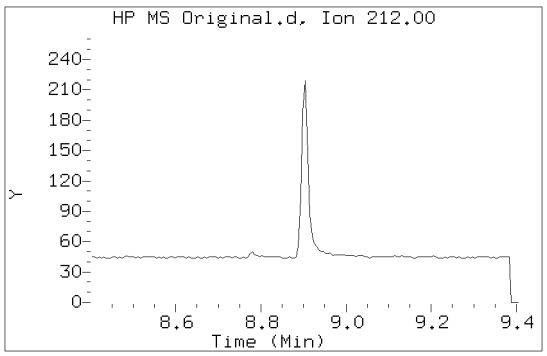
AFTER

MASS
122
AREA
278
HEIGHT
235
29-Jun-2023
14:26
ALSHS
Ser



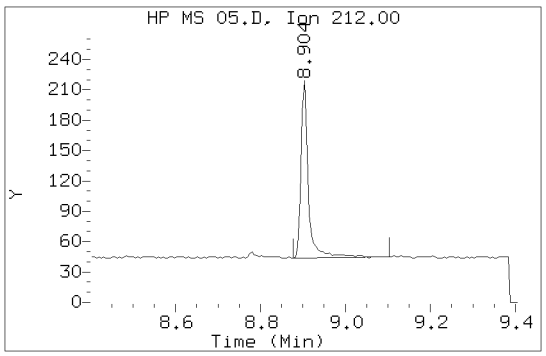
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
212
AREA
205
HEIGHT
174
29-Jun-2023
14:26
ALSHS
Ser

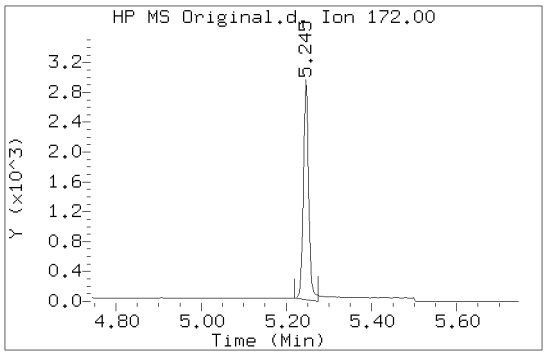


2-Fluorobiphenyl (321-60-8)

Reason Code:

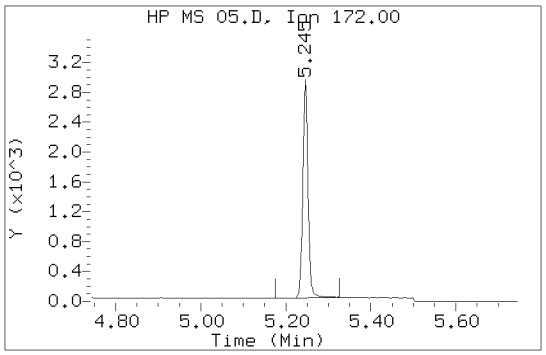
BEFORE

MASS
172
AREA
2588
HEIGHT
2943
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
172
AREA
2509
HEIGHT
2918
29-Jun-2023
14:26
ALSHS
Ser



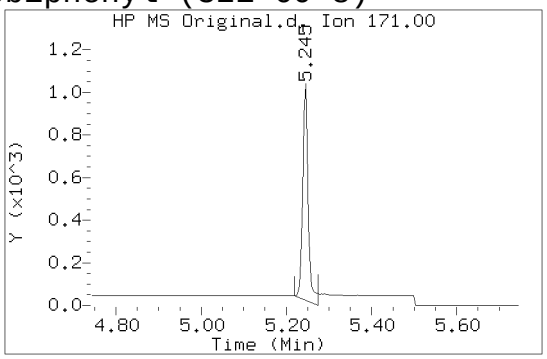
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

2-Fluorobiphenyl (321-60-8)

Reason Code:

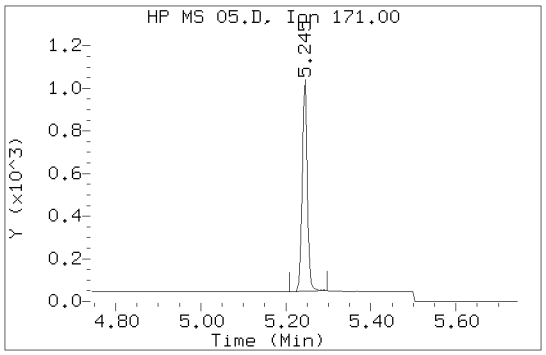
BEFORE

MASS
171
AREA
921
HEIGHT
1017
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
171
AREA
834
HEIGHT
993
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Lab Smp Id: 14DXICAL-0.05 Client Smp ID: 14DXICAL-0.05
Inj Date : 16-JUN-2023 11:44
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:26 Cal File: 05.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	5073	0.10000	(a)
* 45 Naphthalene-d8	136	4.216	4.216	(1.000)	17044	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.850)	2574	0.05000	0.04995(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10027	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	4907	0.05000	0.04778(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	19800	0.10000	
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	14524	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	4687	0.05000	0.04422(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	12549	0.10000	(M)
1 1,4-Dioxane	58	1.486	1.486	(0.475)	828	0.05000	0.04846(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.

01250596

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D

Date : 16-JUN-2023 11:44

Client ID: 14DXICAL-0.05

Instrument: SV6.i

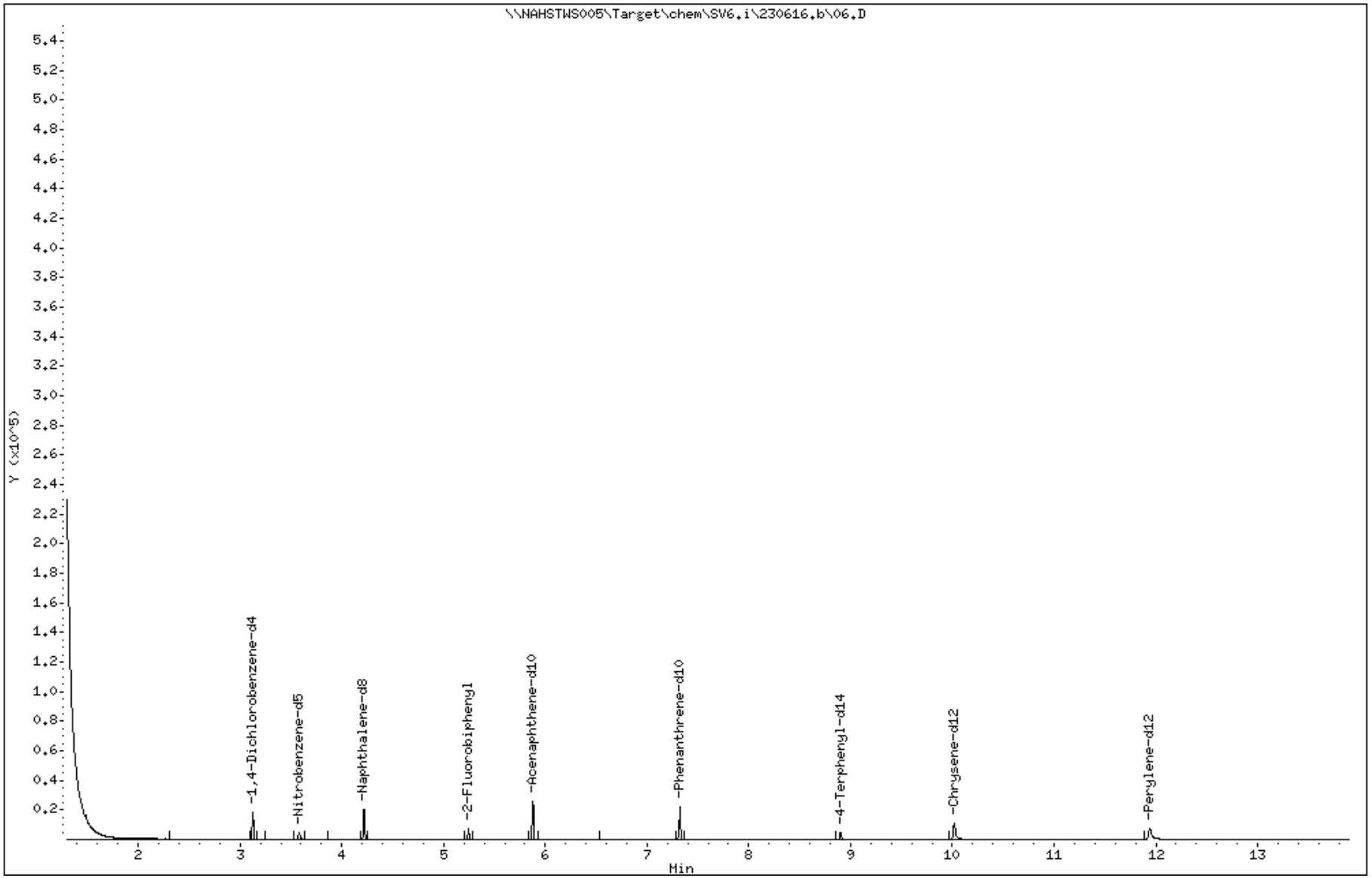
Sample Info: 14DXICAL-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



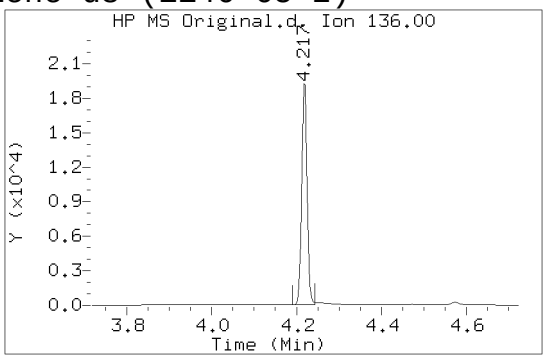
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

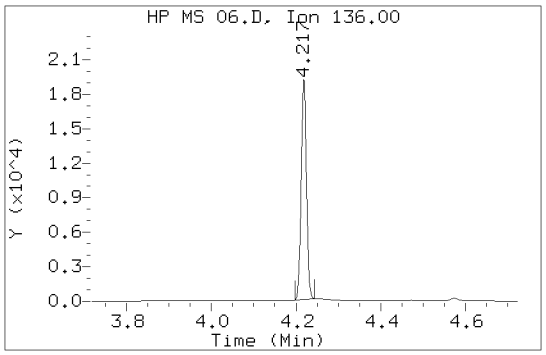
BEFORE

MASS
136
AREA
17378
HEIGHT
19211
16-Jun-2023
11:59
ALSHS
Server



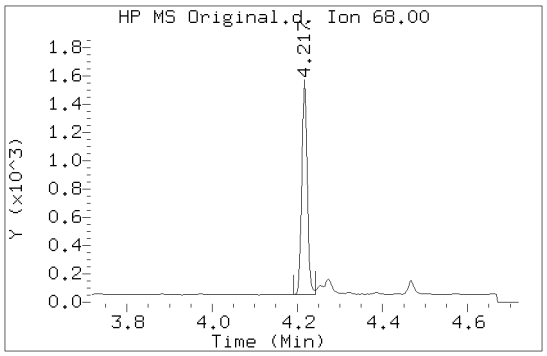
AFTER

MASS
136
AREA
17044
HEIGHT
19106
29-Jun-2023
14:26
ALSHS
Ser



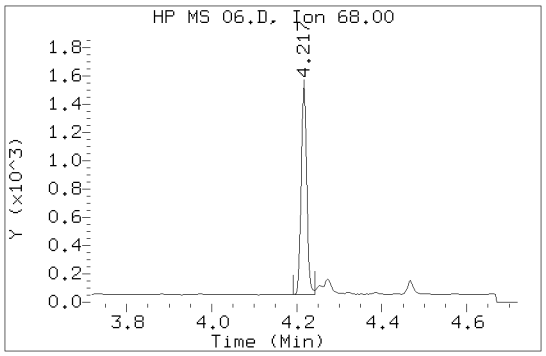
BEFORE

MASS
68
AREA
1330
HEIGHT
1515
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
68
AREA
1330
HEIGHT
1515
29-Jun-2023
14:26
ALSHS
Ser

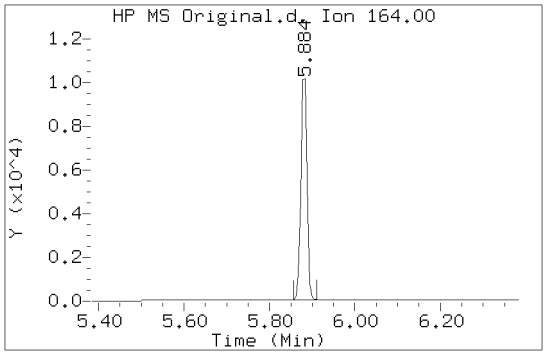


Acenaphthene-d10 (15067-26-2)

Reason Code:

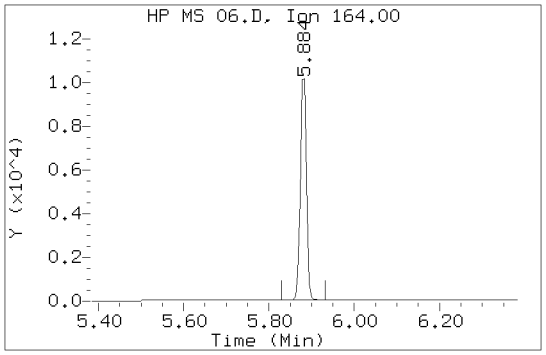
BEFORE

MASS
164
AREA
9969
HEIGHT
10109
16-Jun-2023
11:59
ALSHS
Server



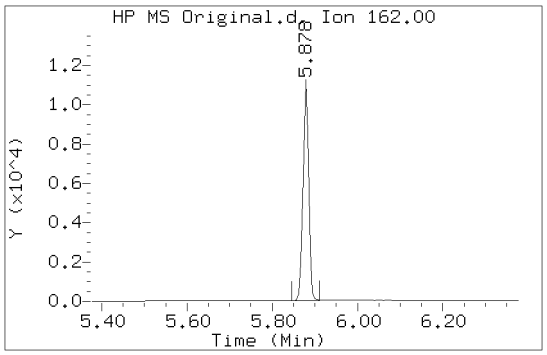
AFTER

MASS
164
AREA
10027
HEIGHT
10124
29-Jun-2023
14:26
ALSHS
Ser



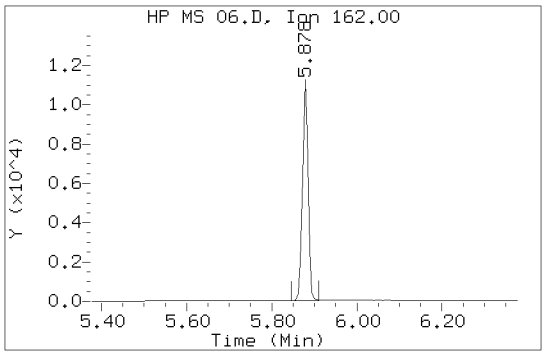
BEFORE

MASS
162
AREA
10122
HEIGHT
11230
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
162
AREA
10122
HEIGHT
11230
29-Jun-2023
14:26
ALSHS
Ser



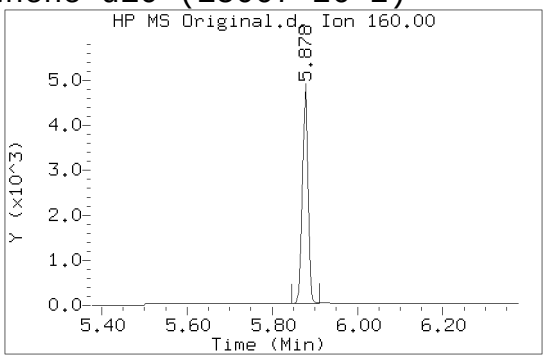
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Acenaphthene-d10 (15067-26-2)

Reason Code:

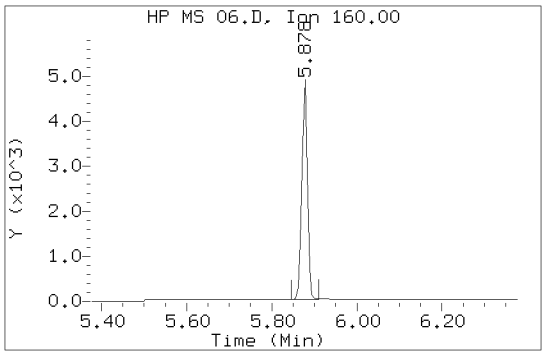
BEFORE

MASS
160
AREA
4359
HEIGHT
4881
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
160
AREA
4359
HEIGHT
4881
29-Jun-2023
14:26
ALSHS
Ser

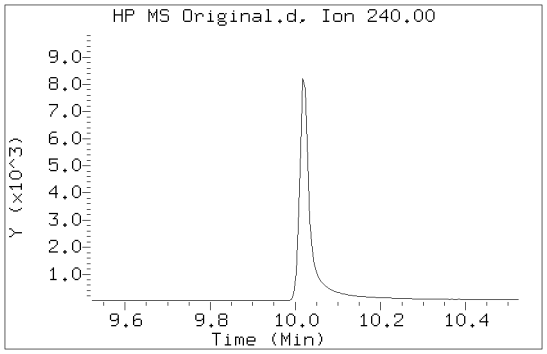


Chrysene-d12 (1719-03-5)

Reason Code:

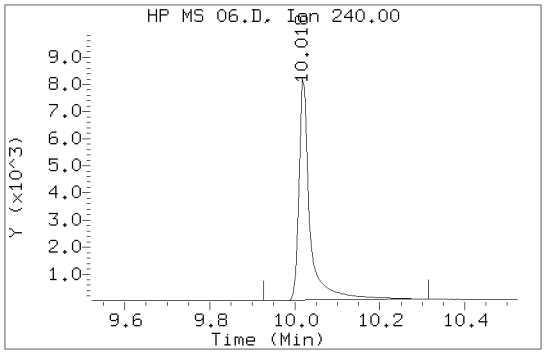
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



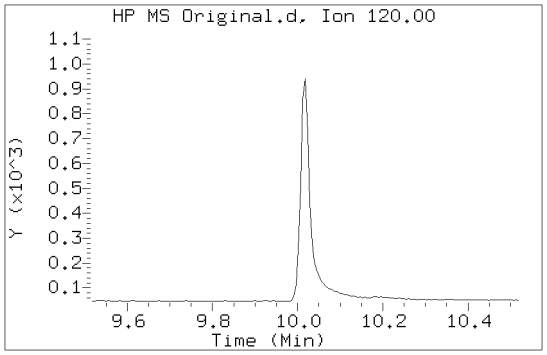
AFTER

MASS
240
AREA
14524
HEIGHT
8152
29-Jun-2023
14:26
ALSHS
Ser



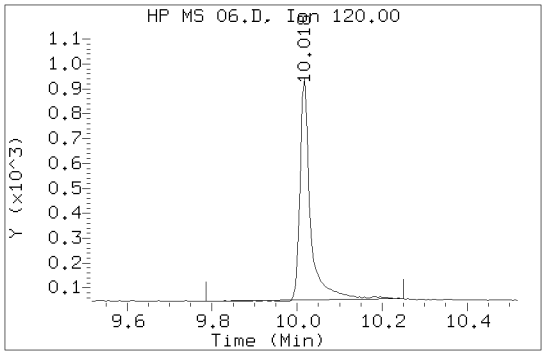
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



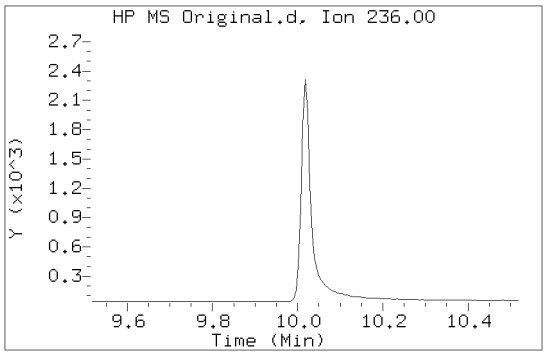
AFTER

MASS
120
AREA
1511
HEIGHT
888
29-Jun-2023
14:26
ALSHS
Ser



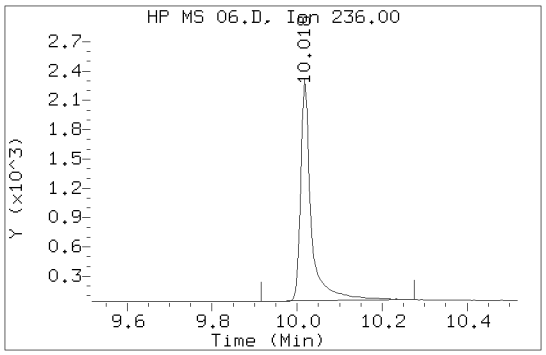
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
236
AREA
3903
HEIGHT
2262
29-Jun-2023
14:26
ALSHS
Ser



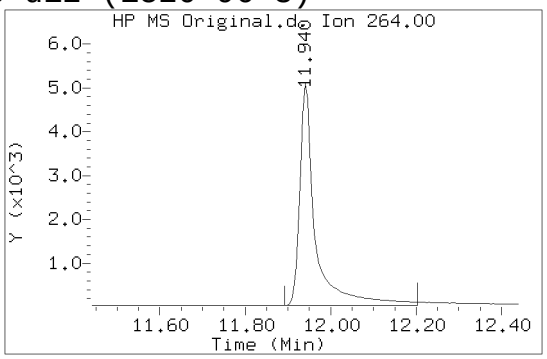
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Perylene-d12 (1520-96-3)

Reason Code:

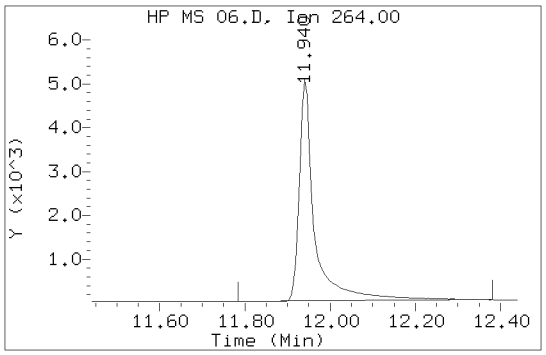
BEFORE

MASS
264
AREA
12686
HEIGHT
5050
16-Jun-2023
11:59
ALSHS
Server



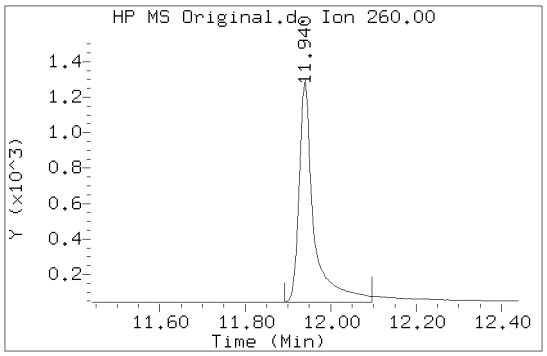
AFTER

MASS
264
AREA
12549
HEIGHT
5041
29-Jun-2023
14:26
ALSHS
Ser



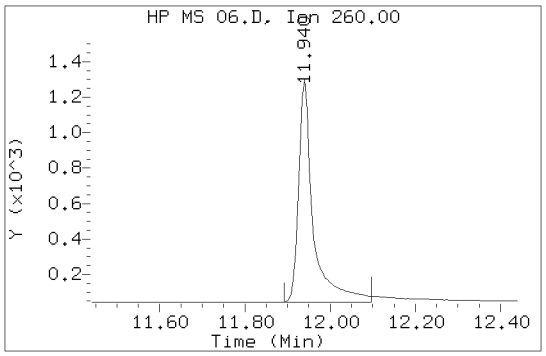
BEFORE

MASS
260
AREA
2978
HEIGHT
1253
16-Jun-2023
11:59
ALSHS
Server



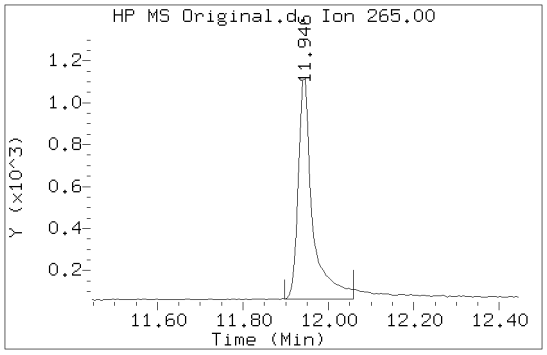
AFTER

MASS
260
AREA
2978
HEIGHT
1253
29-Jun-2023
14:26
ALSHS
Ser



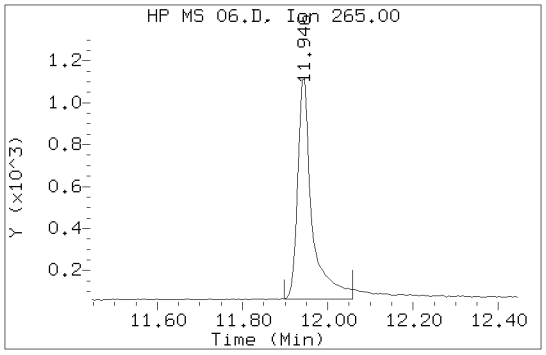
BEFORE

MASS
265
AREA
2473
HEIGHT
1053
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
265
AREA
2473
HEIGHT
1053
29-Jun-2023
14:26
ALSHS
Ser

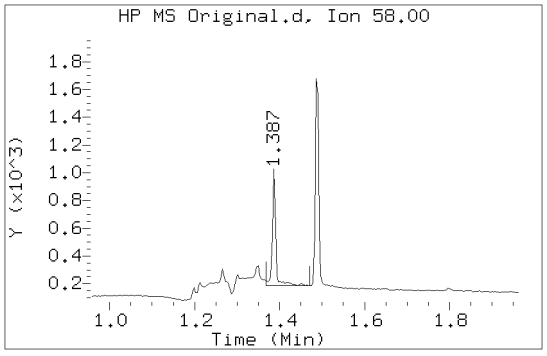


1,4-Dioxane ()

Reason Code:

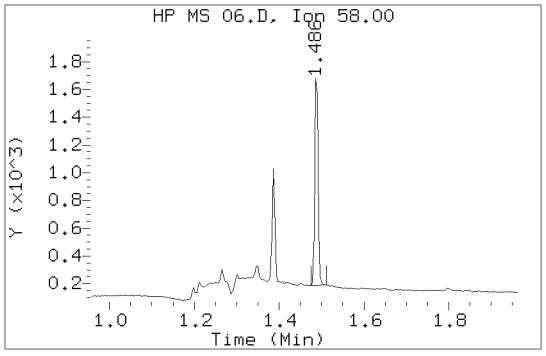
BEFORE

MASS
58
AREA
474
HEIGHT
839
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
58
AREA
828
HEIGHT
1488
29-Jun-2023
14:26
ALSHS
Ser



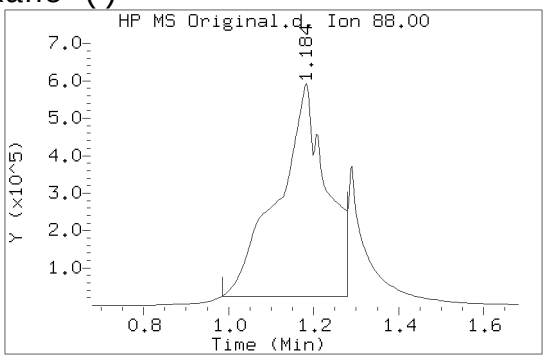
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

1,4-Dioxane ()

Reason Code:

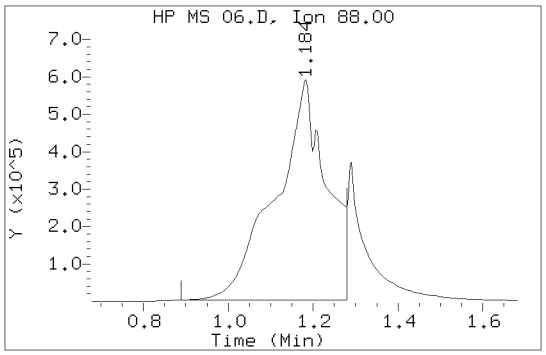
BEFORE

MASS
88
AREA
4490753
HEIGHT
567696
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
88
AREA
4905096
HEIGHT
589066
29-Jun-2023
14:26
ALSHS
Ser

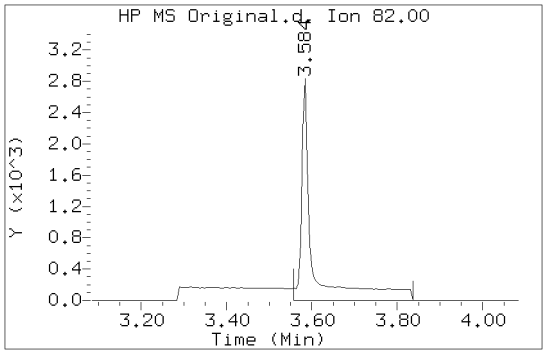


Nitrobenzene-d5 (4165-60-0)

Reason Code:

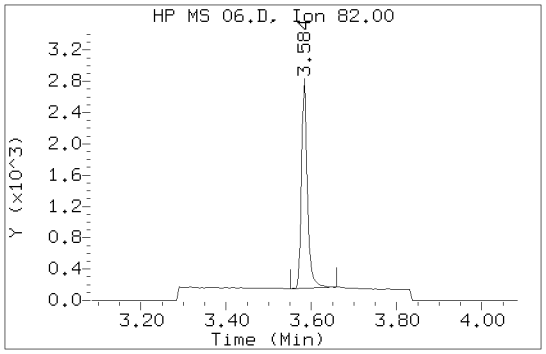
BEFORE

MASS
82
AREA
5121
HEIGHT
2833
16-Jun-2023
11:59
ALSHS
Server



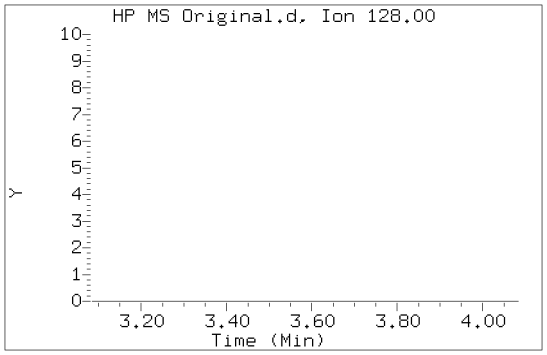
AFTER

MASS
82
AREA
2574
HEIGHT
2676
29-Jun-2023
14:26
ALSHS
Ser



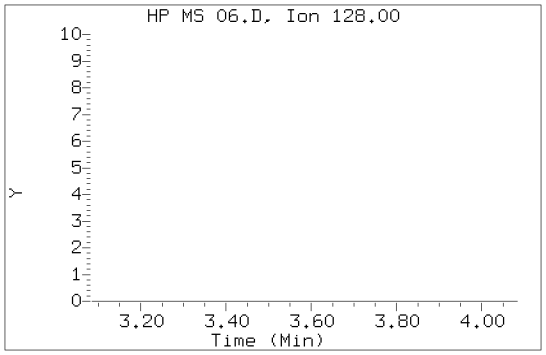
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



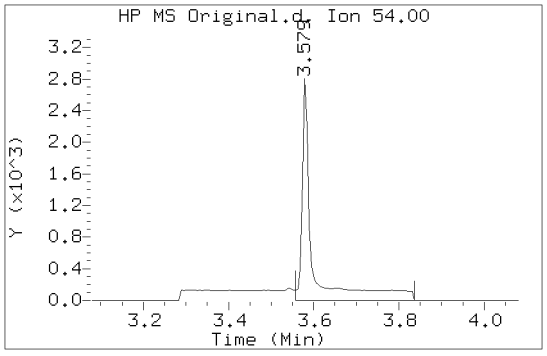
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



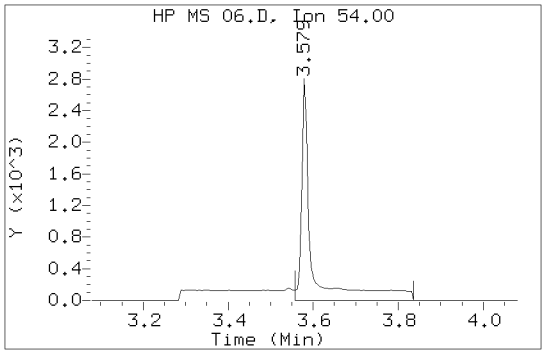
BEFORE

MASS
54
AREA
4709
HEIGHT
2805
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
54
AREA
4709
HEIGHT
2805
29-Jun-2023
14:26
ALSHS
Ser



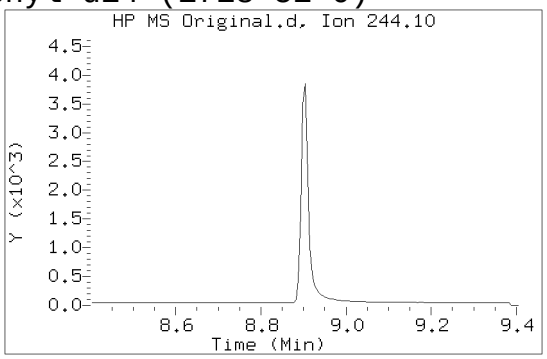
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

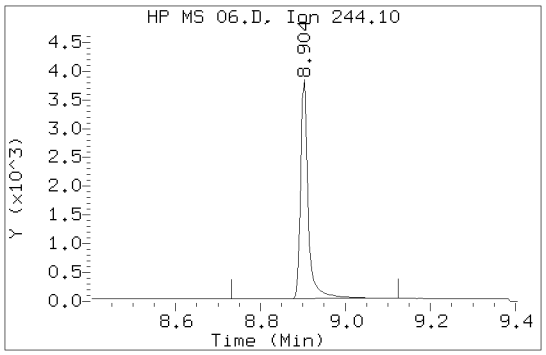
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



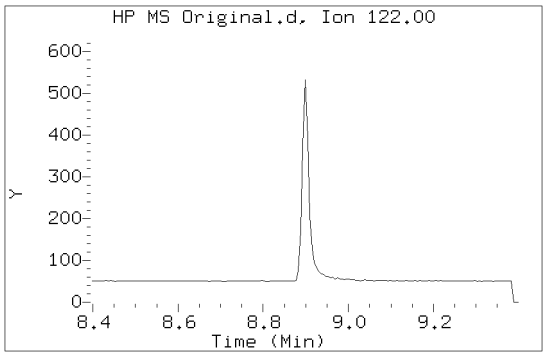
AFTER

MASS
244.1
AREA
4687
HEIGHT
3802
29-Jun-2023
14:26
ALSHS
Ser



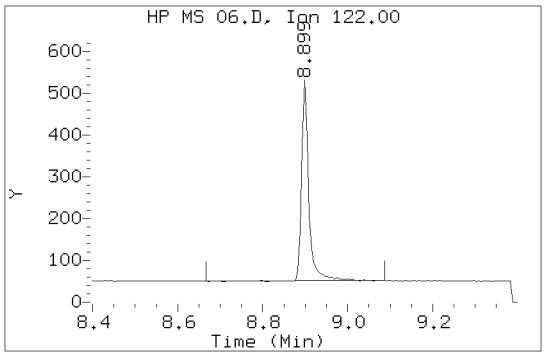
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



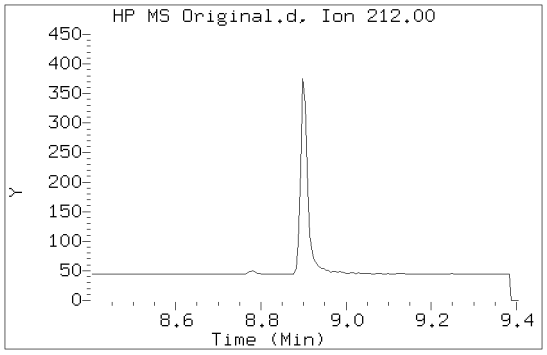
AFTER

MASS
122
AREA
540
HEIGHT
480
29-Jun-2023
14:26
ALSHS
Ser



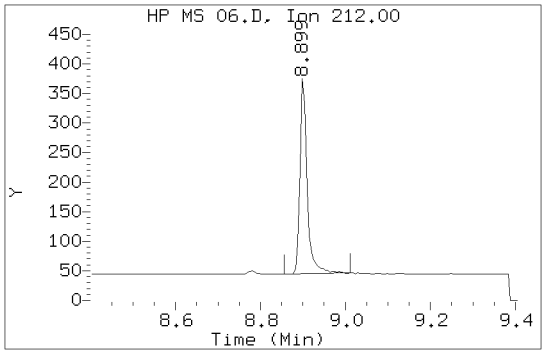
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
212
AREA
383
HEIGHT
330
29-Jun-2023
14:26
ALSHS
Ser

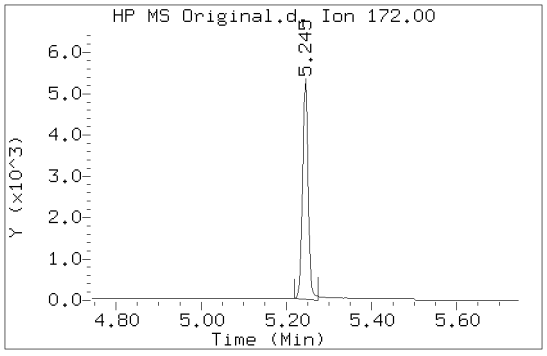


2-Fluorobiphenyl (321-60-8)

Reason Code:

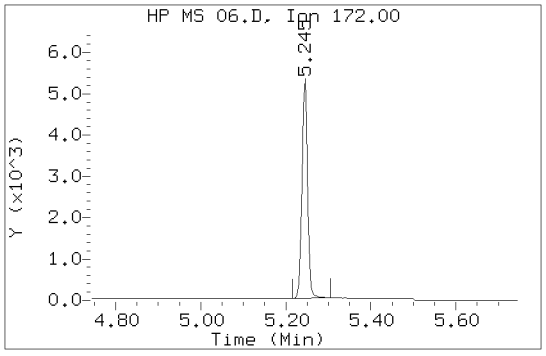
BEFORE

MASS
172
AREA
4989
HEIGHT
5338
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
172
AREA
4907
HEIGHT
5312
29-Jun-2023
14:26
ALSHS
Ser



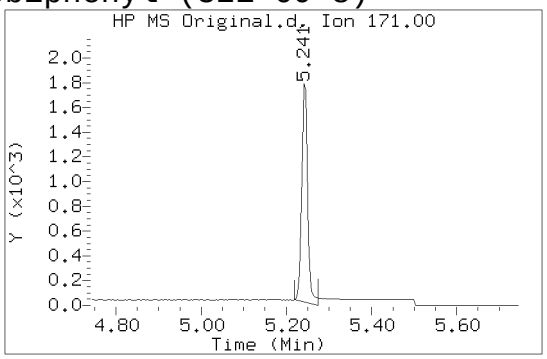
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

2-Fluorobiphenyl (321-60-8)

Reason Code:

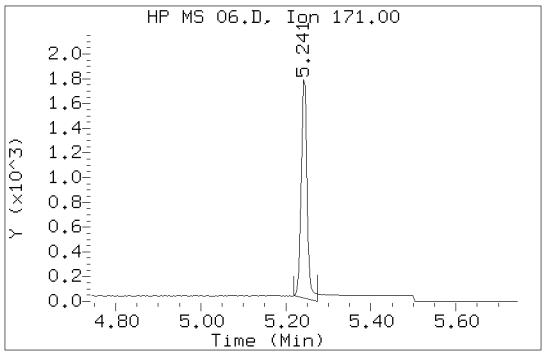
BEFORE

MASS
171
AREA
1727
HEIGHT
1764
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
171
AREA
1727
HEIGHT
1764
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Lab Smp Id: 14DXICAL-0.08 Client Smp ID: 14DXICAL-0.08
Inj Date : 16-JUN-2023 12:02
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:44 Cal File: 06.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	4590	0.10000	(a)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	15619	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	4012	0.08000	0.08496(M)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	9075	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	7759	0.08000	0.08348
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	18261	0.10000	
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	12097	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	7185	0.08000	0.08138(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	10759	0.10000	(M)
1 1,4-Dioxane	58	1.482	1.482	(0.474)	1283	0.08000	0.08298(QH)

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.
H - Operator selected an alternate compound hit.

01250604

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D

Date : 16-JUN-2023 12:02

Client ID: 14DXICAL-0.08

Instrument: SV6.i

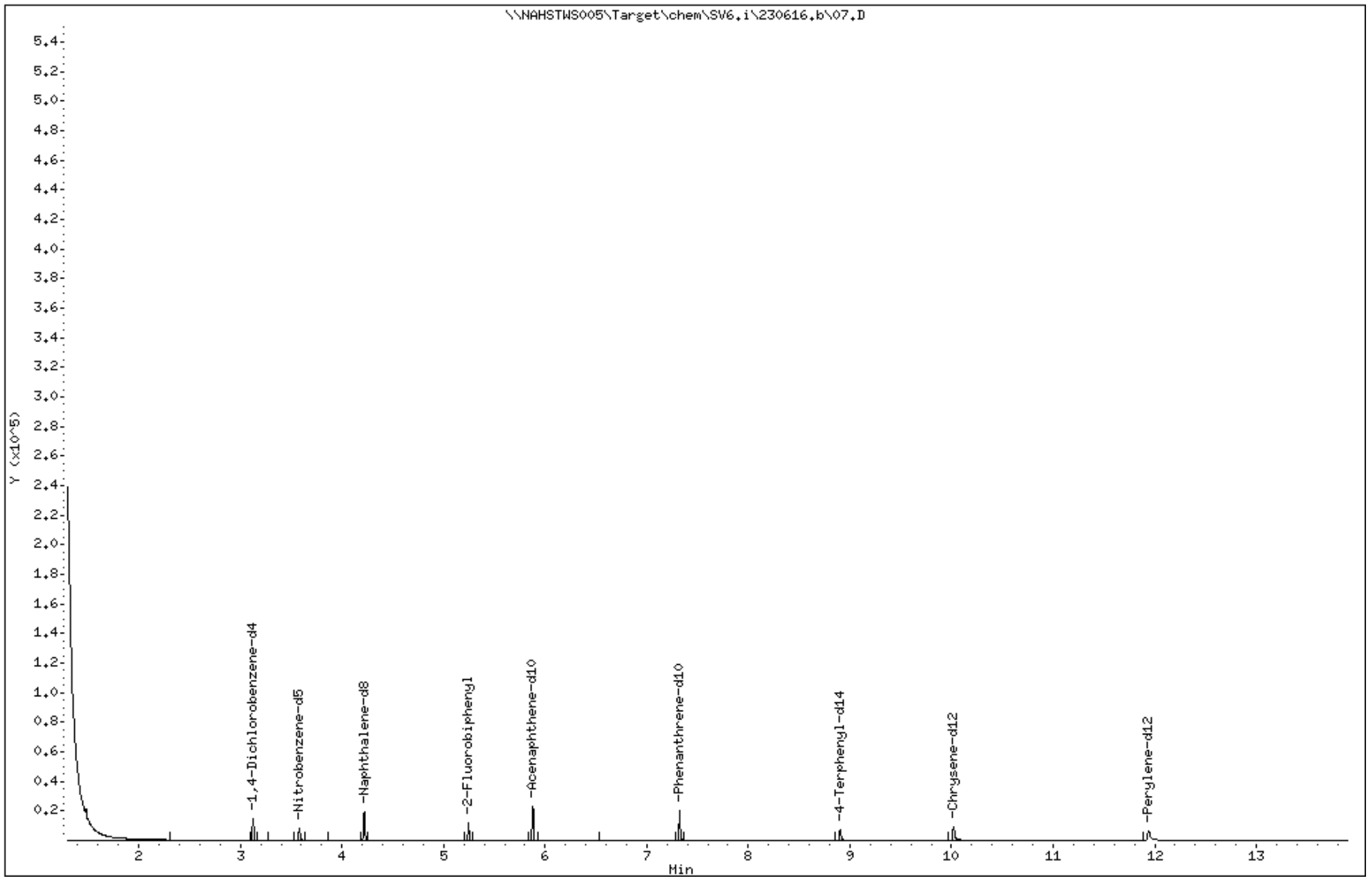
Sample Info: 14DXICAL-0.08

Purge Volume: 1000.0

Operator: LC

Column phase: RTX-5SIL MS

Column diameter: 0.28



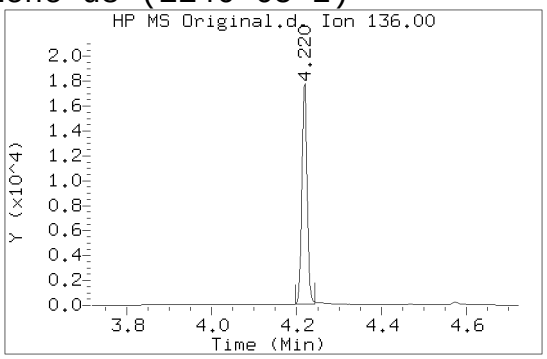
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

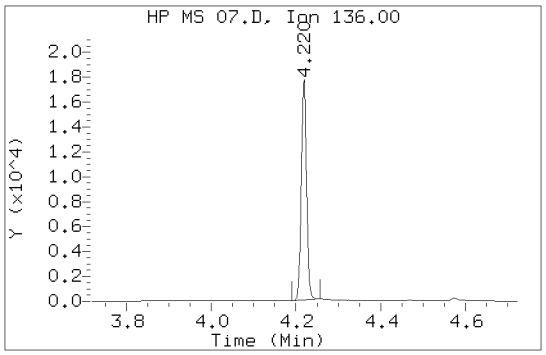
BEFORE

MASS
136
AREA
15744
HEIGHT
17718
16-Jun-2023
12:18
ALSHS
Server



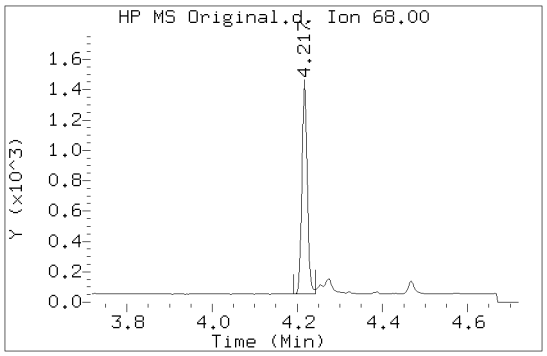
AFTER

MASS
136
AREA
15619
HEIGHT
17670
29-Jun-2023
14:26
ALSHS
Ser



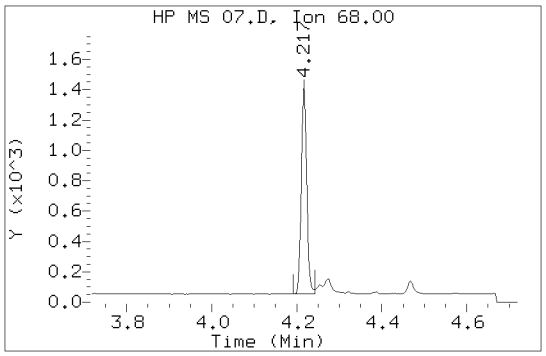
BEFORE

MASS
68
AREA
1209
HEIGHT
1411
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
68
AREA
1209
HEIGHT
1411
29-Jun-2023
14:26
ALSHS
Ser

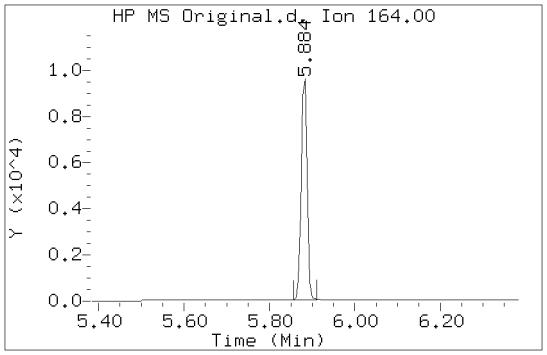


Acenaphthene-d10 (15067-26-2)

Reason Code:

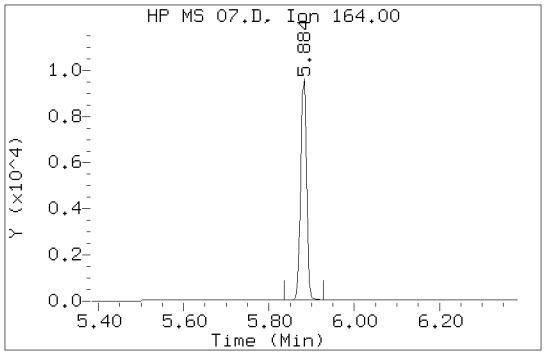
BEFORE

MASS
164
AREA
9060
HEIGHT
9568
16-Jun-2023
12:18
ALSHS
Server



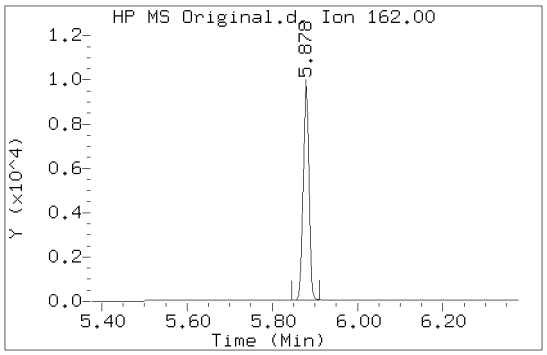
AFTER

MASS
164
AREA
9075
HEIGHT
9571
29-Jun-2023
14:26
ALSHS
Ser



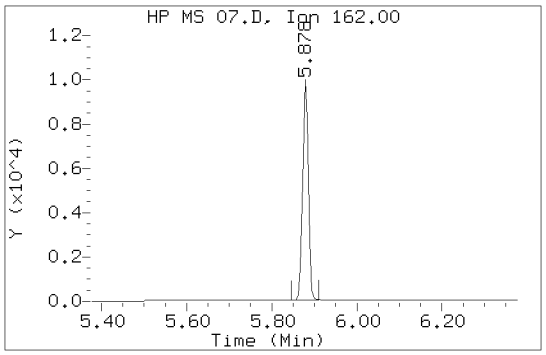
BEFORE

MASS
162
AREA
9173
HEIGHT
9961
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
162
AREA
9173
HEIGHT
9961
29-Jun-2023
14:26
ALSHS
Ser



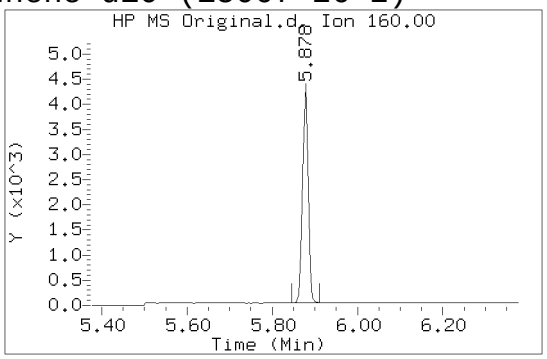
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Acenaphthene-d10 (15067-26-2)

Reason Code:

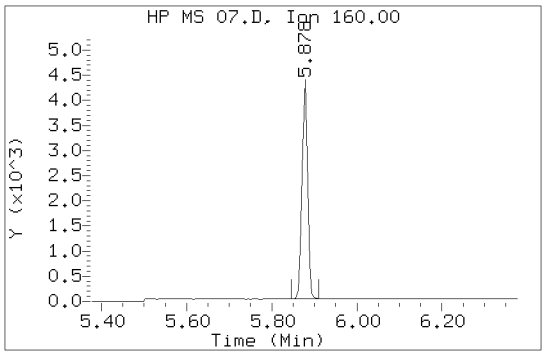
BEFORE

MASS
160
AREA
3928
HEIGHT
4365
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
160
AREA
3928
HEIGHT
4365
29-Jun-2023
14:26
ALSHS
Ser

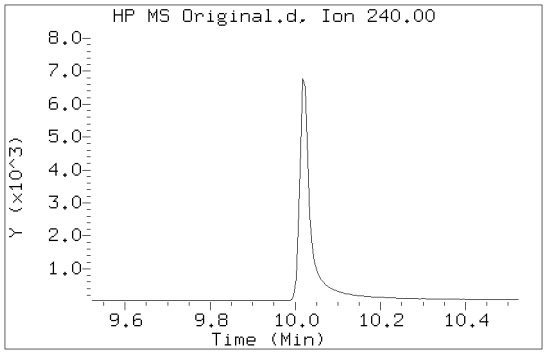


Chrysene-d12 (1719-03-5)

Reason Code:

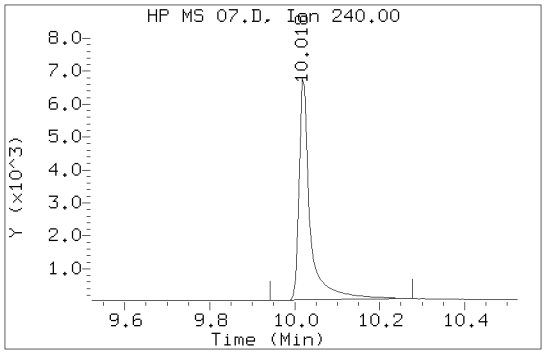
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



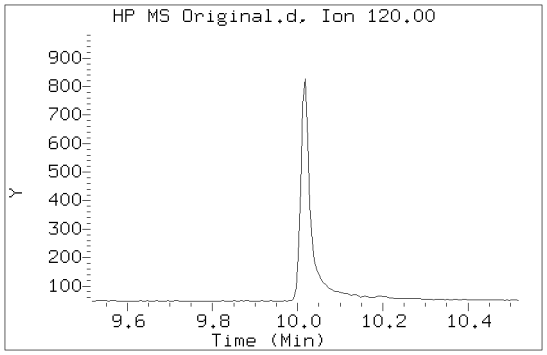
AFTER

MASS
240
AREA
12097
HEIGHT
6713
29-Jun-2023
14:26
ALSHS
Ser



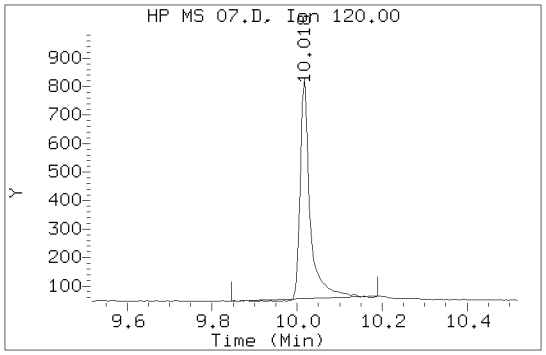
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



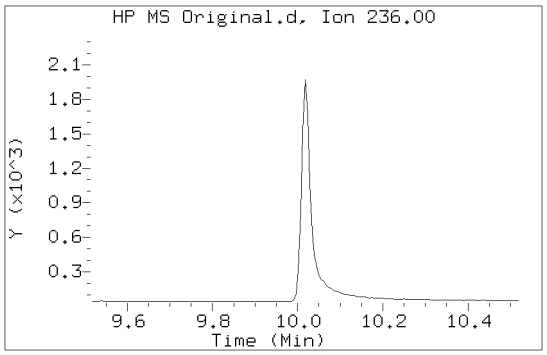
AFTER

MASS
120
AREA
1207
HEIGHT
771
29-Jun-2023
14:26
ALSHS
Ser



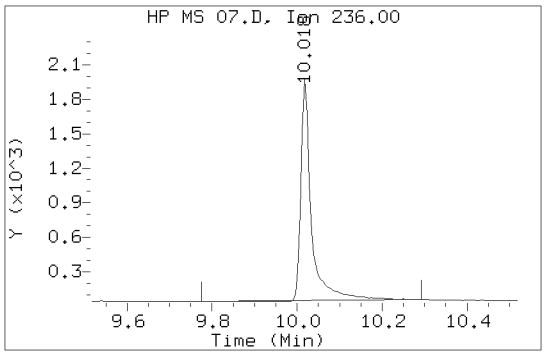
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
236
AREA
3279
HEIGHT
1919
29-Jun-2023
14:26
ALSHS
Ser



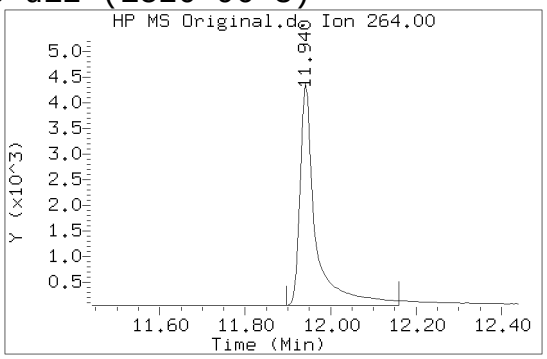
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Perylene-d12 (1520-96-3)

Reason Code:

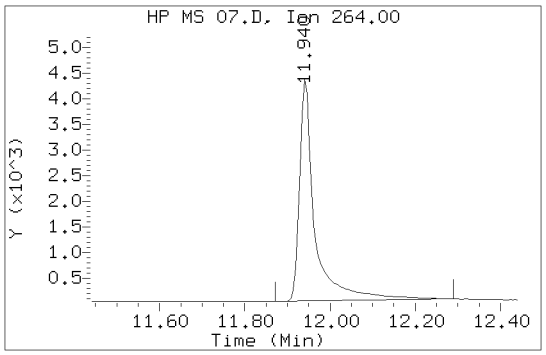
BEFORE

MASS
264
AREA
10879
HEIGHT
4324
16-Jun-2023
12:18
ALSHS
Server



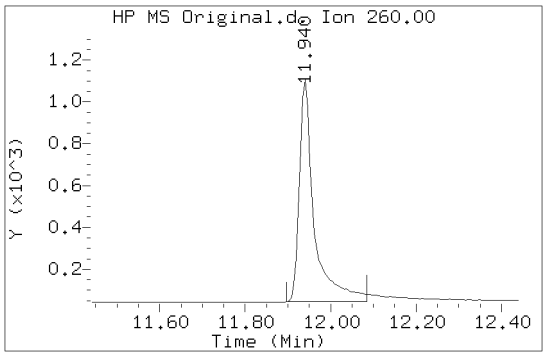
AFTER

MASS
264
AREA
10759
HEIGHT
4317
29-Jun-2023
14:26
ALSHS
Ser



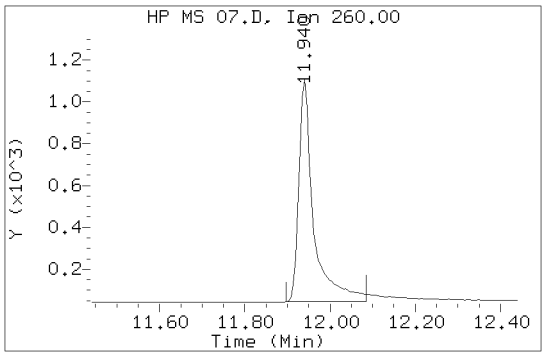
BEFORE

MASS
260
AREA
2559
HEIGHT
1060
16-Jun-2023
12:18
ALSHS
Server



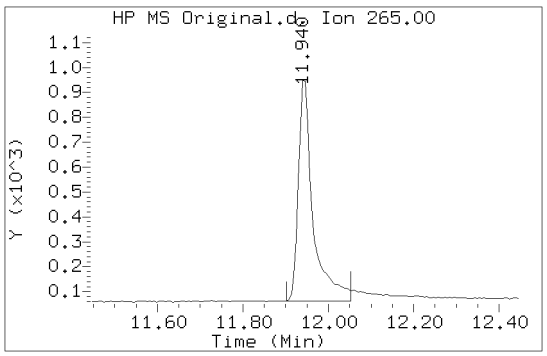
AFTER

MASS
260
AREA
2559
HEIGHT
1060
29-Jun-2023
14:26
ALSHS
Ser



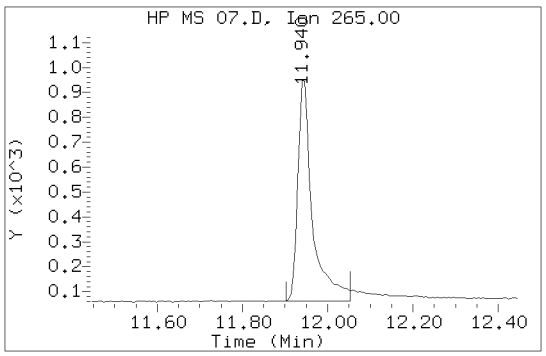
BEFORE

MASS
265
AREA
2115
HEIGHT
884
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
265
AREA
2115
HEIGHT
884
29-Jun-2023
14:26
ALSHS
Ser

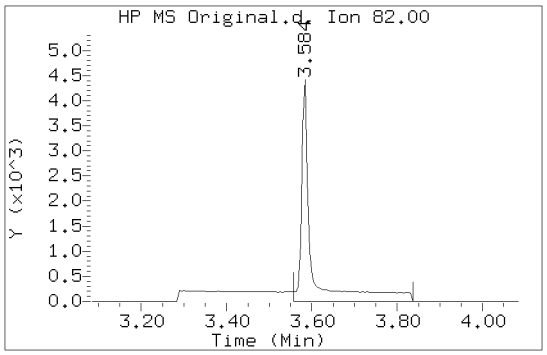


Nitrobenzene-d5 (4165-60-0)

Reason Code:

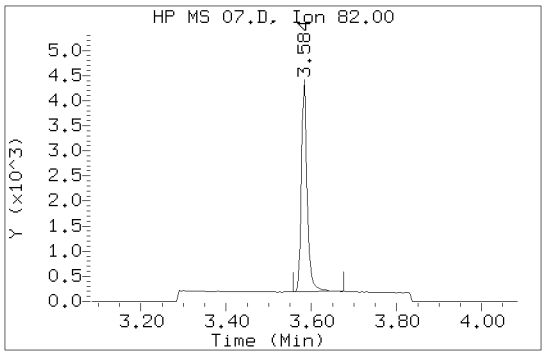
BEFORE

MASS
82
AREA
7140
HEIGHT
4418
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
82
AREA
4012
HEIGHT
4226
29-Jun-2023
14:26
ALSHS
Ser



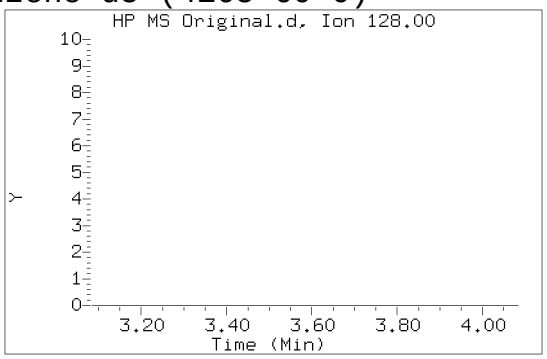
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

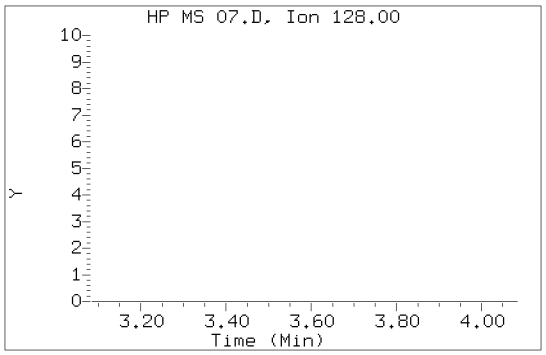
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



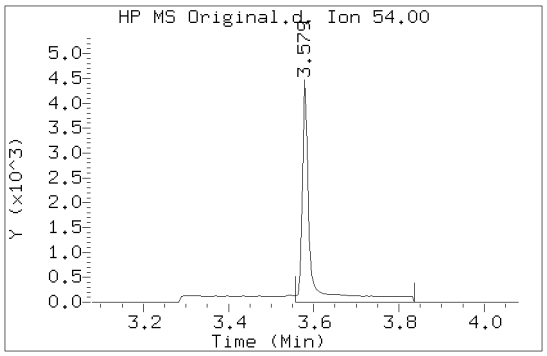
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



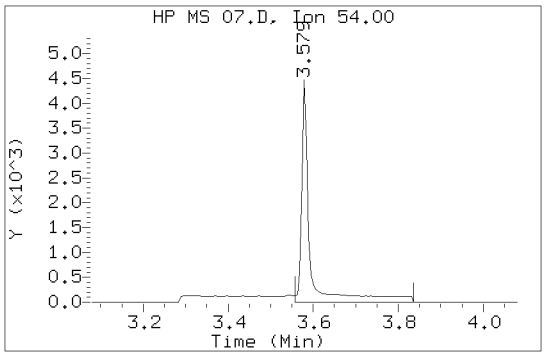
BEFORE

MASS
54
AREA
6137
HEIGHT
4470
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
54
AREA
6137
HEIGHT
4470
29-Jun-2023
14:26
ALSHS
Ser

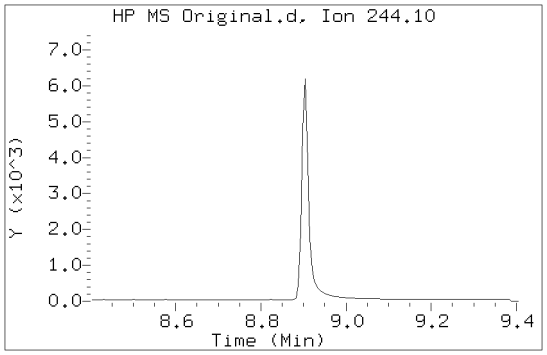


4-Terphenyl-d14 (1718-51-0)

Reason Code:

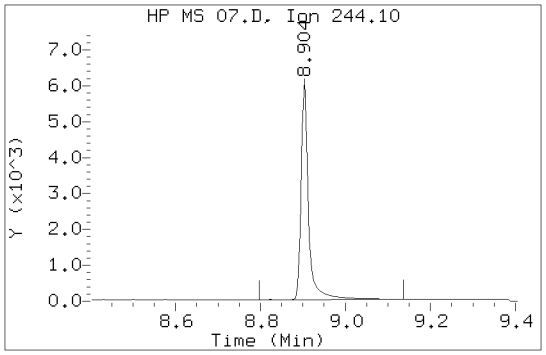
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



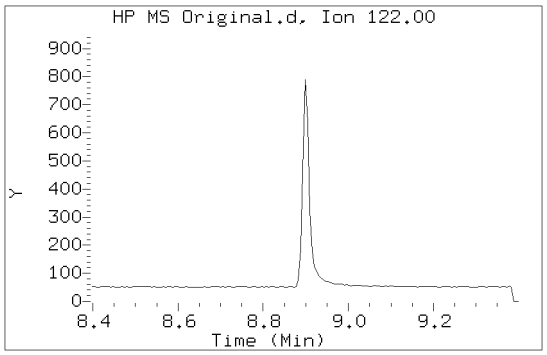
AFTER

MASS
244.1
AREA
7185
HEIGHT
6143
29-Jun-2023
14:26
ALSHS
Ser



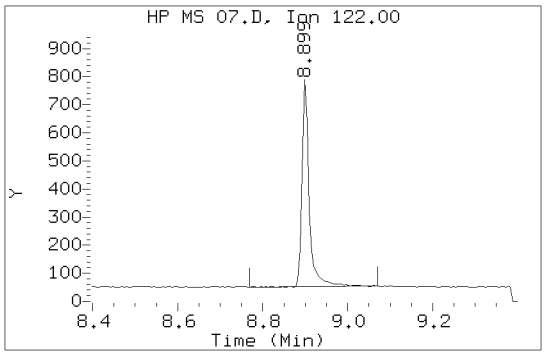
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
122
AREA
850
HEIGHT
736
29-Jun-2023
14:26
ALSHS
Ser



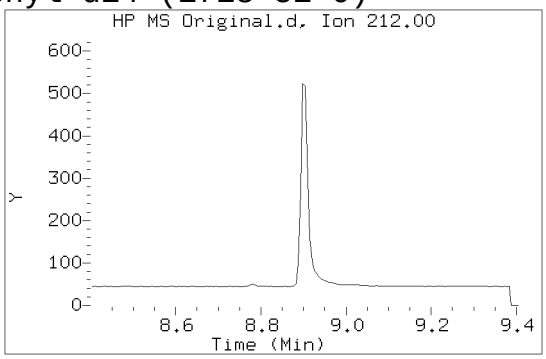
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

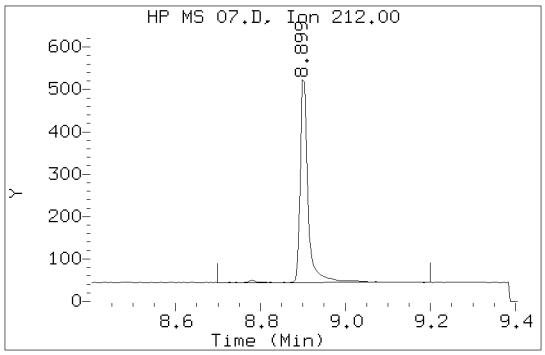
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
212
AREA
622
HEIGHT
478
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Lab Smp Id: 14DXICAL-0.15 Client Smp ID: 14DXICAL-0.15
Inj Date : 16-JUN-2023 12:38
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	3901	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13349	0.10000	
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	6134	0.15000	0.1520(AQM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7708	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	11636	0.15000	0.1474
* 126 Phenanthrene-d10	188	7.323	7.323	(1.000)	15157	0.10000	
* 182 Chrysene-d12	240	10.018	10.018	(1.000)	10131	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	10881	0.15000	0.1472(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	7987	0.10000	(M)
1 1,4-Dioxane	58	1.464	1.464	(0.468)	1980	0.15000	0.1507(QH)

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.
H - Operator selected an alternate compound hit.

01250612

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D

Date : 16-JUN-2023 12:38

Client ID: 14DXICAL-0.15

Instrument: SV6.i

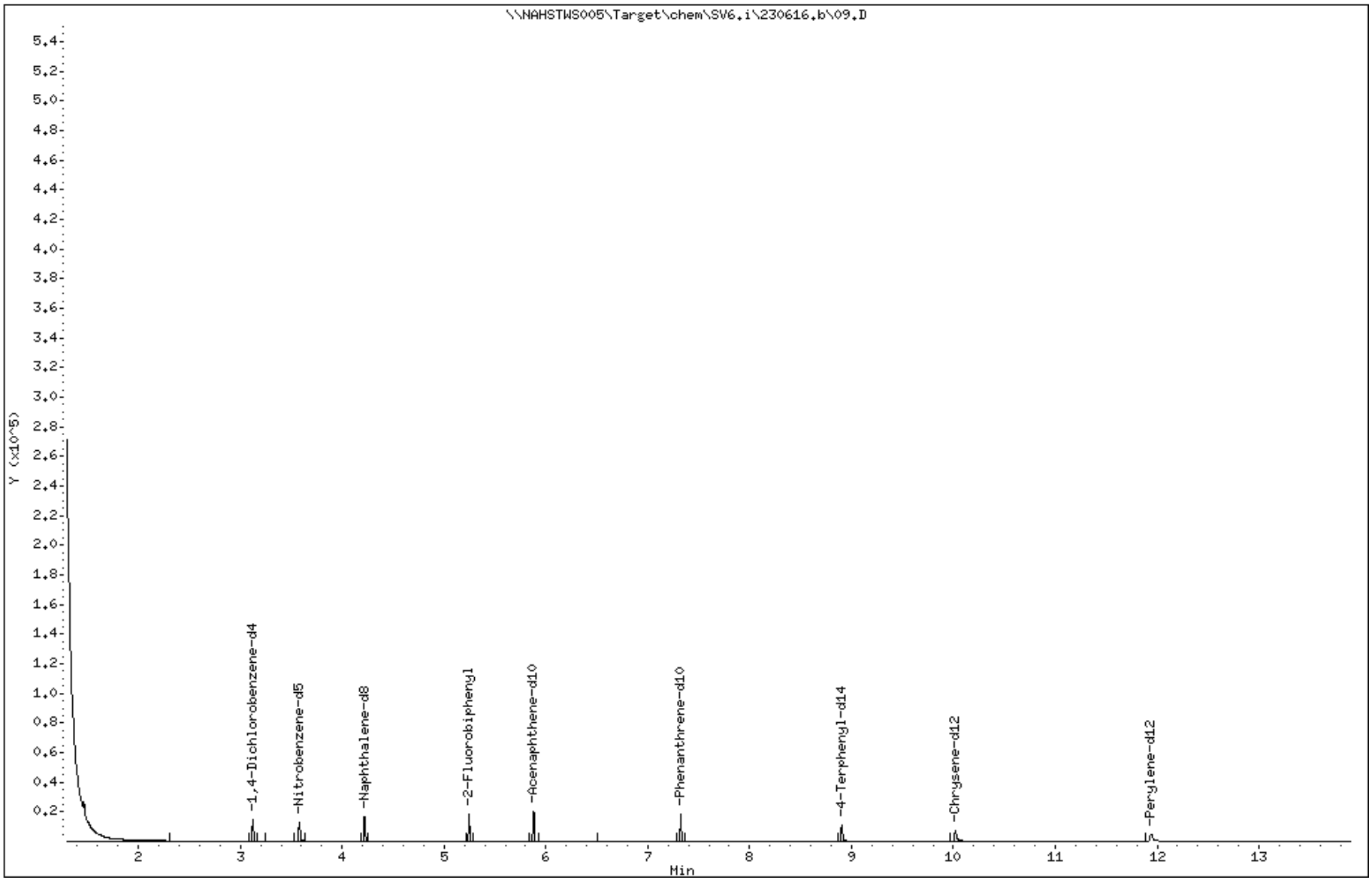
Sample Info: 14DXICAL-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



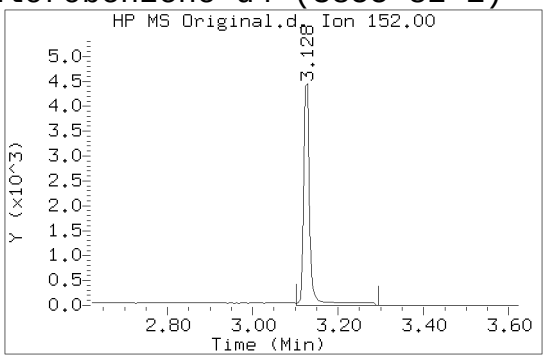
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

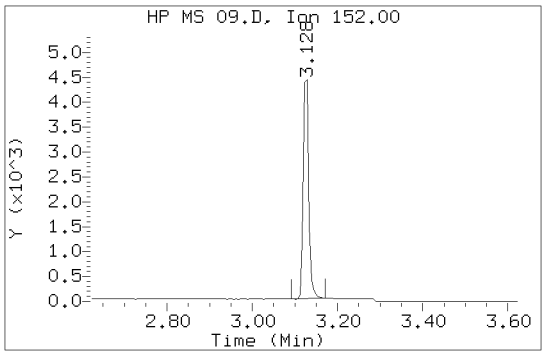
BEFORE

MASS
152
AREA
4505
HEIGHT
4453
16-Jun-2023
12:57
ALSHS
Server



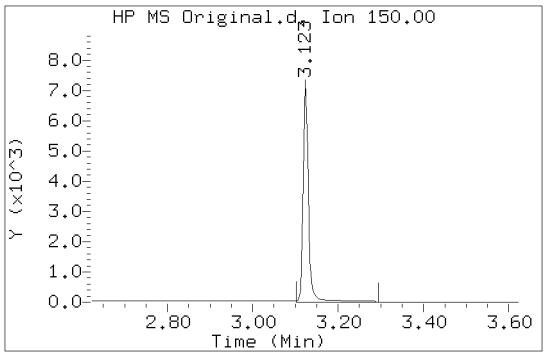
AFTER

MASS
152
AREA
3901
HEIGHT
4398
29-Jun-2023
14:27
ALSHS
Ser



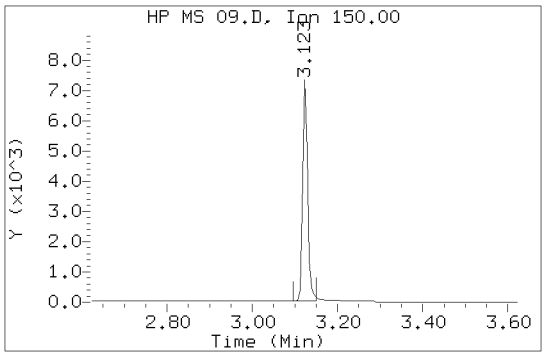
BEFORE

MASS
150
AREA
6326
HEIGHT
7351
16-Jun-2023
12:57
ALSHS
Server



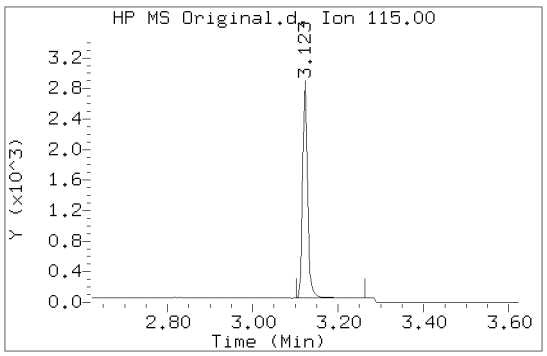
AFTER

MASS
150
AREA
5706
HEIGHT
7305
29-Jun-2023
14:27
ALSHS
Ser



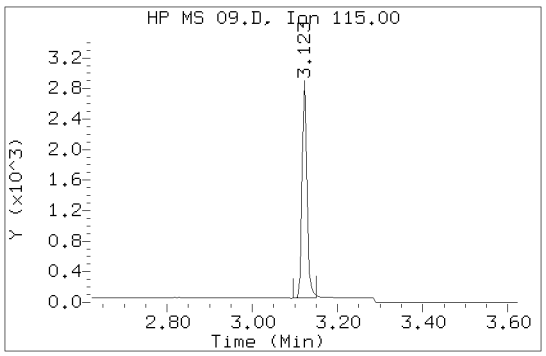
BEFORE

MASS
115
AREA
2255
HEIGHT
2847
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
115
AREA
2210
HEIGHT
2846
29-Jun-2023
14:27
ALSHS
Ser

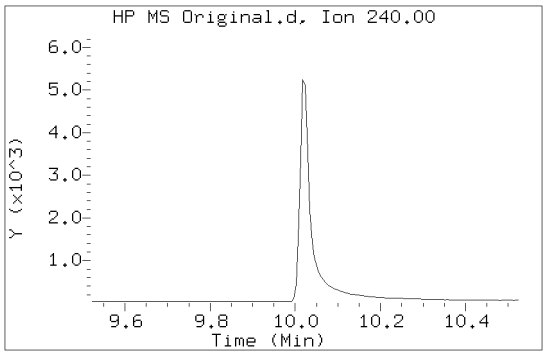


Chrysene-d12 (1719-03-5)

Reason Code:

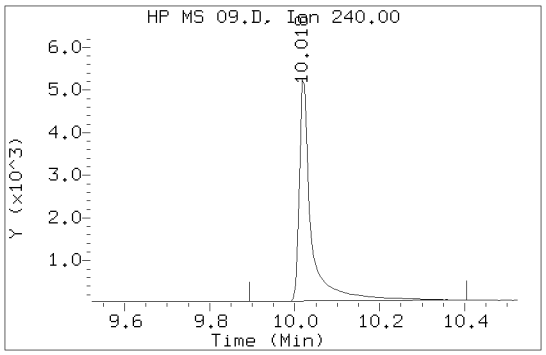
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
240
AREA
10131
HEIGHT
5190
29-Jun-2023
14:27
ALSHS
Ser

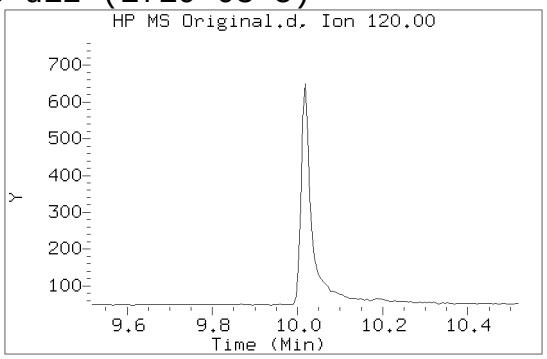


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

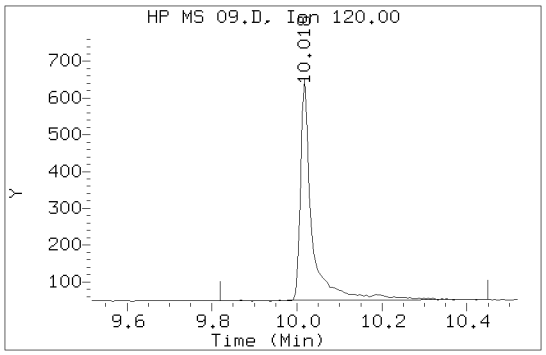
Chrysene-d12 (1719-03-5)

Reason Code:

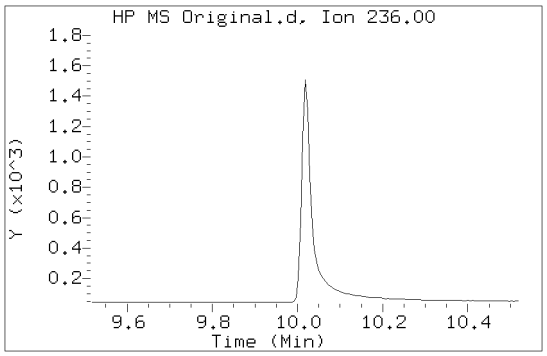
BEFORE
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



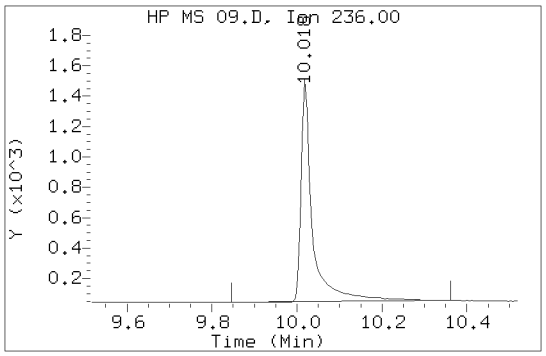
AFTER
MASS
120
AREA
1131
HEIGHT
600
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



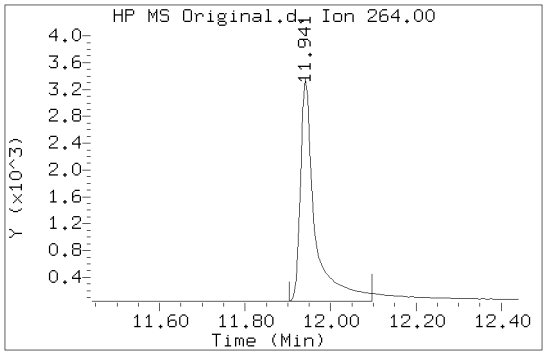
AFTER
MASS
236
AREA
2695
HEIGHT
1458
29-Jun-2023
14:27
ALSHS
Ser



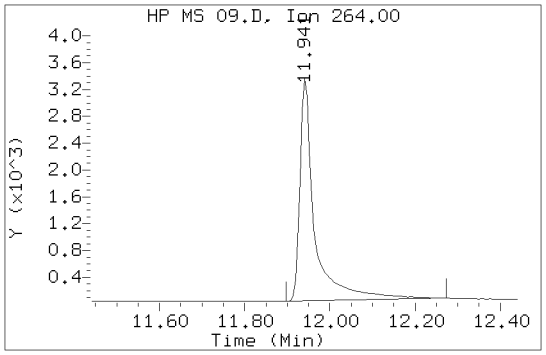
Perylene-d12 (1520-96-3)

Reason Code:

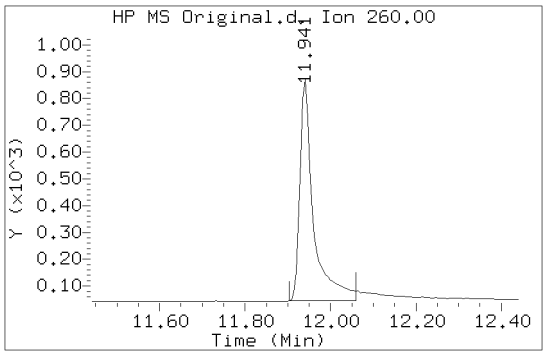
BEFORE
MASS
264
AREA
7735
HEIGHT
3310
16-Jun-2023
12:57
ALSHS
Server



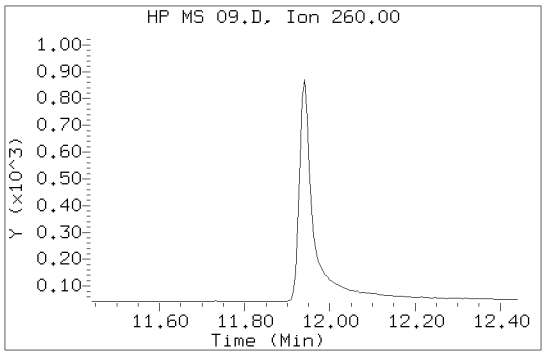
AFTER
MASS
264
AREA
7987
HEIGHT
3307
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
260
AREA
1816
HEIGHT
824
16-Jun-2023
12:57
ALSHS
Server



AFTER
MASS
260
AREA
2012
HEIGHT
823
29-Jun-2023
14:27
ALSHS
Ser



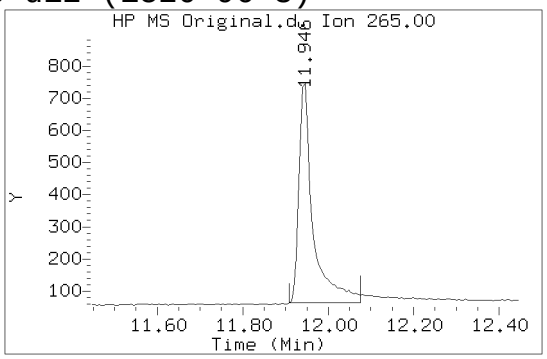
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

Perylene-d12 (1520-96-3)

Reason Code:

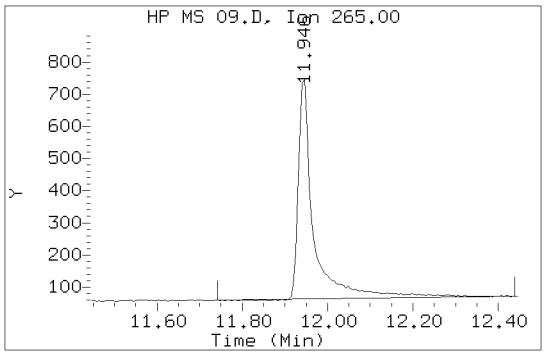
BEFORE

MASS
265
AREA
1571
HEIGHT
682
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
265
AREA
1706
HEIGHT
682
29-Jun-2023
14:27
ALSHS
Ser

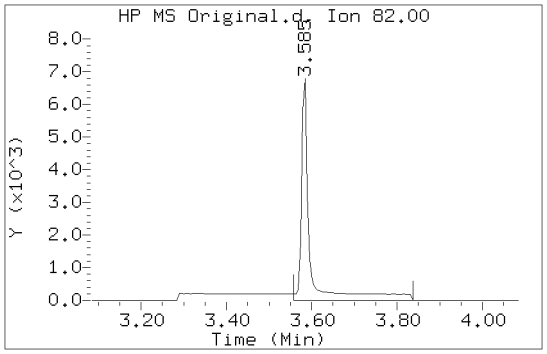


Nitrobenzene-d5 (4165-60-0)

Reason Code:

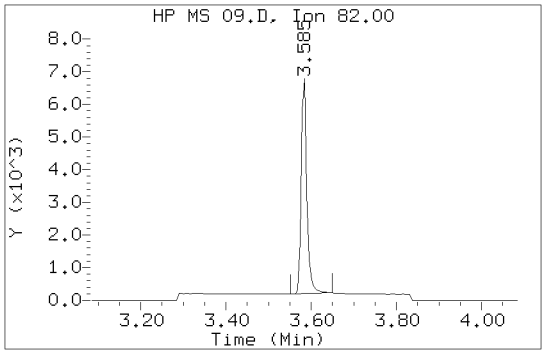
BEFORE

MASS
82
AREA
9487
HEIGHT
6787
16-Jun-2023
12:57
ALSHS
Server



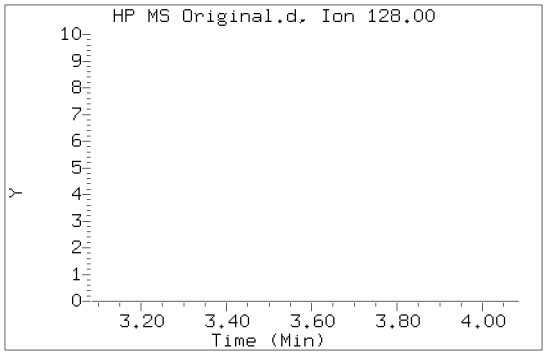
AFTER

MASS
82
AREA
6134
HEIGHT
6582
29-Jun-2023
14:27
ALSHS
Ser



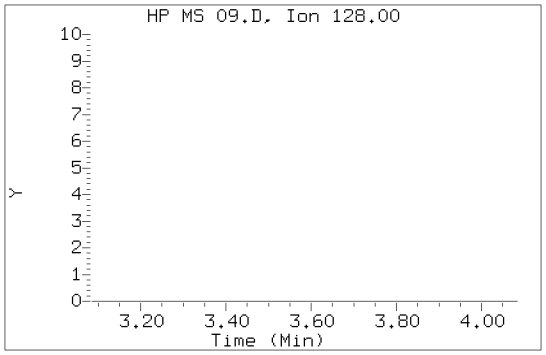
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



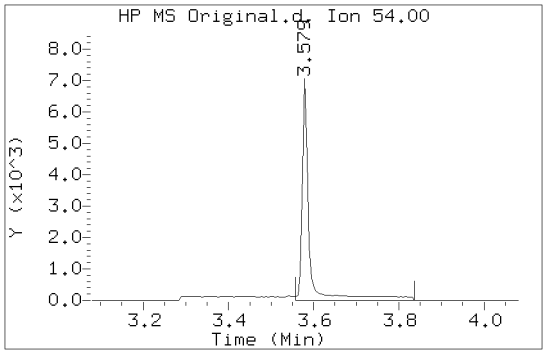
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



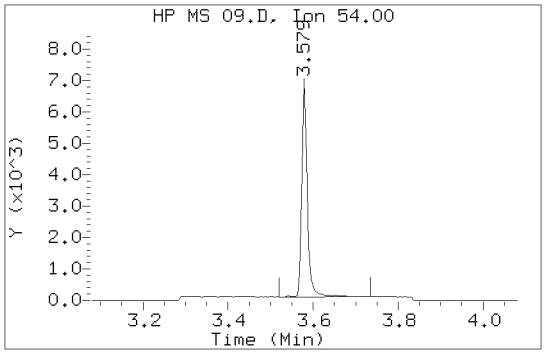
BEFORE

MASS
54
AREA
8200
HEIGHT
7059
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
54
AREA
6294
HEIGHT
6945
29-Jun-2023
14:27
ALSHS
Ser

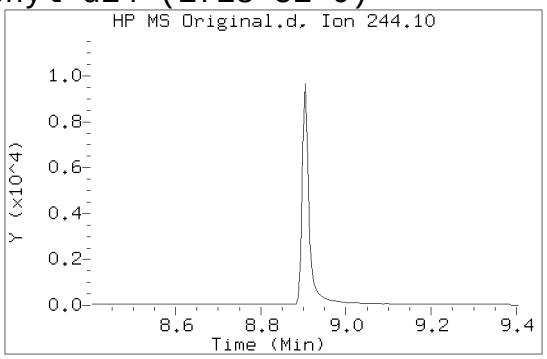


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

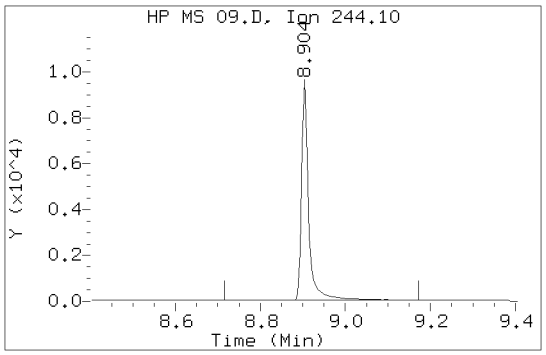
4-Terphenyl-d14 (1718-51-0)

Reason Code:

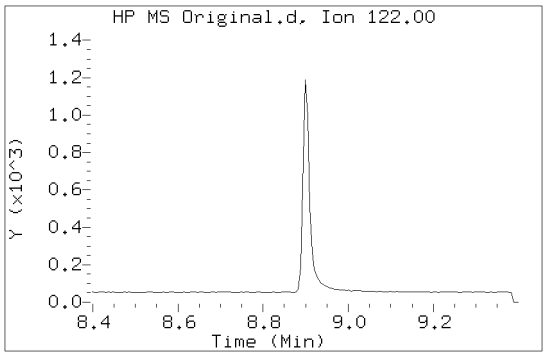
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



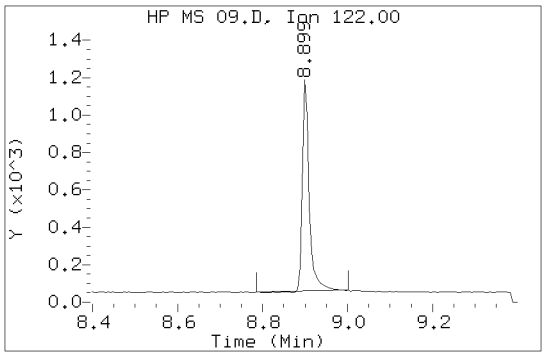
AFTER
MASS
244.1
AREA
10881
HEIGHT
9614
29-Jun-2023
14:27
ALSHS
Ser



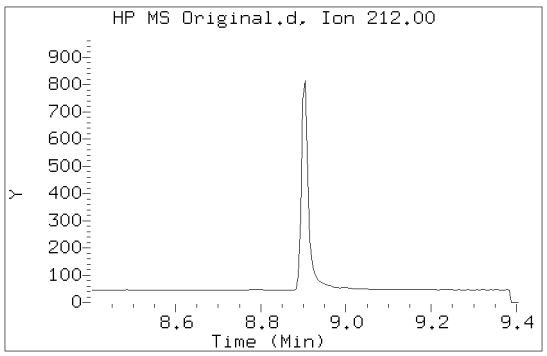
BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



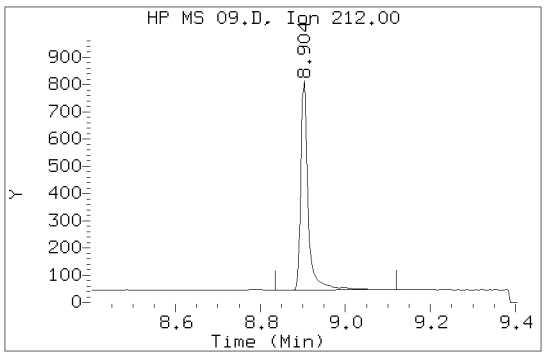
AFTER
MASS
122
AREA
1222
HEIGHT
1128
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER
MASS
212
AREA
918
HEIGHT
769
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Lab Smp Id: 14DXICAL-0.1 Client Smp ID: 14DXICAL-0.1
Inj Date : 16-JUN-2023 14:15
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.1
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 15:48 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	4026	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13383	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	4123	0.10000	0.1019(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7945	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.248	5.248	(0.892)	7708	0.10000	0.09473(M)
* 126 Phenanthrene-d10	188	7.328	7.328	(1.000)	15519	0.10000	(M)
* 182 Chrysene-d12	240	10.028	10.028	(1.000)	9988	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.909	(0.888)	7529	0.10000	0.1033(M)
* 198 Perylene-d12	264	11.946	11.946	(1.000)	8963	0.10000	(M)
1 1,4-Dioxane	58	1.471	1.471	(0.470)	1445	0.10000	0.1066(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.

01250618

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D

Date : 16-JUN-2023 14:15

Client ID: 14DXICAL-0.1

Instrument: SV6.i

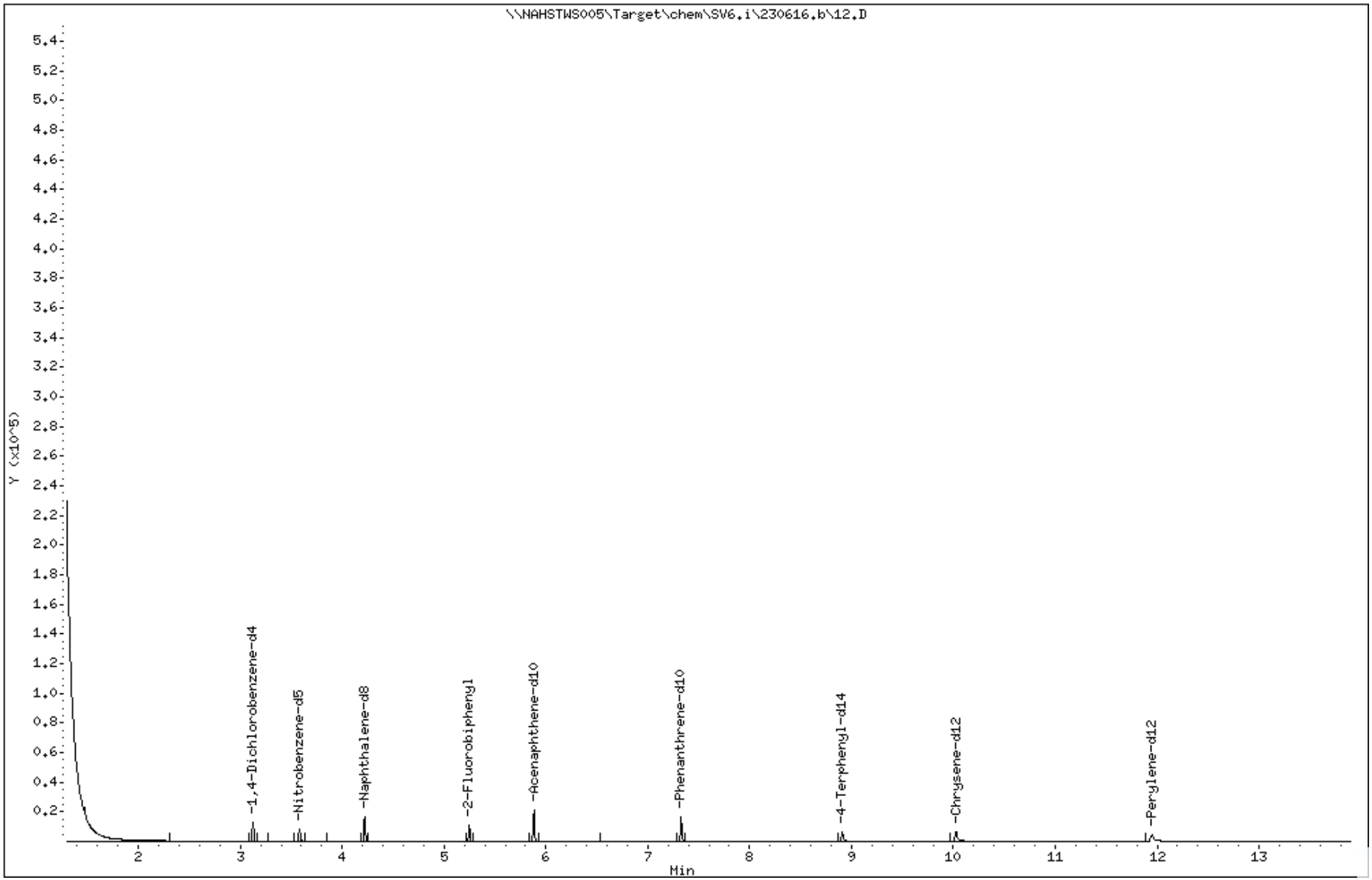
Sample Info: 14DXICAL-0.1

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

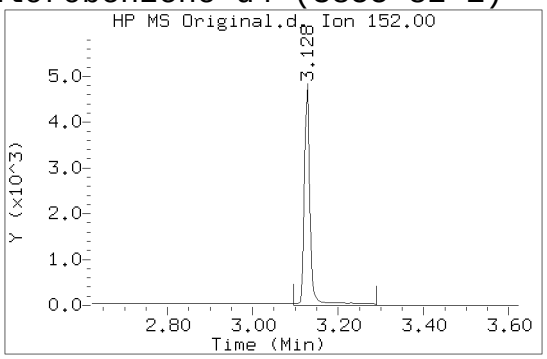


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

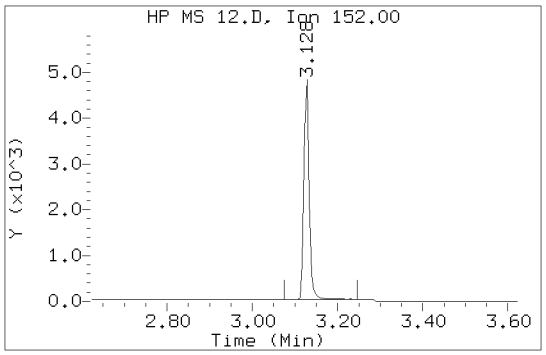
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

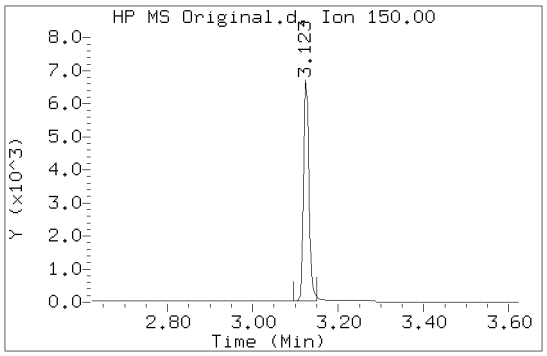
BEFORE
MASS
152
AREA
4570
HEIGHT
4842
16-Jun-2023
14:59
jiayi
lu



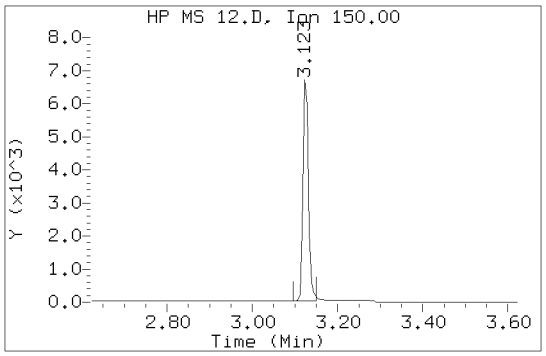
AFTER
MASS
152
AREA
4026
HEIGHT
4796
29-Jun-2023
15:48



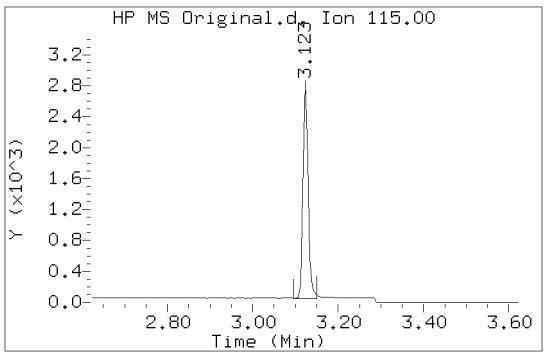
BEFORE
MASS
150
AREA
5752
HEIGHT
6676
16-Jun-2023
14:59
jiayi
lu



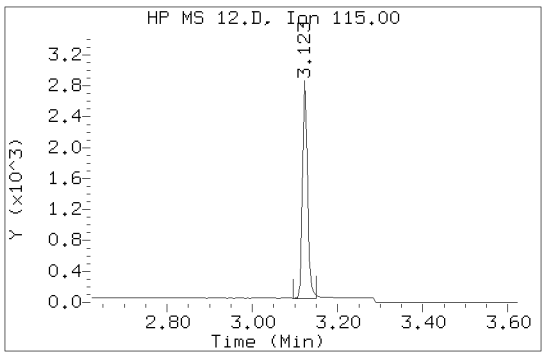
AFTER
MASS
150
AREA
5752
HEIGHT
6676
29-Jun-2023
15:48



BEFORE
MASS
115
AREA
2249
HEIGHT
2814
16-Jun-2023
14:59
jiayi
lu



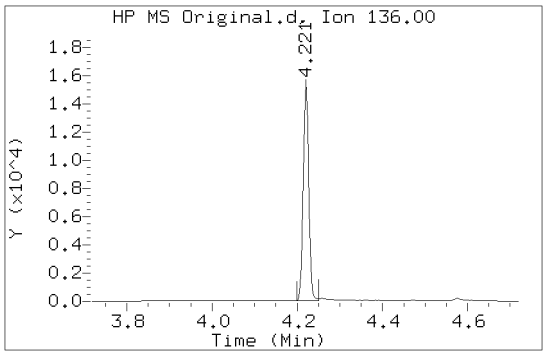
AFTER
MASS
115
AREA
2249
HEIGHT
2814
29-Jun-2023
15:48



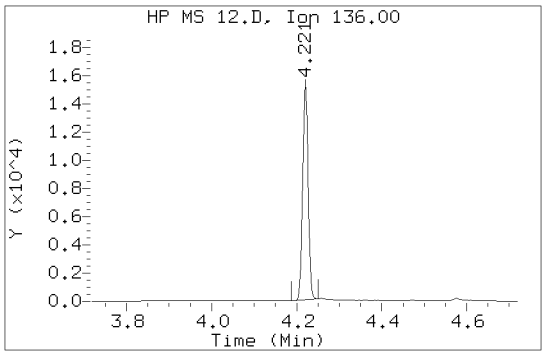
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
13619
HEIGHT
15676
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
136
AREA
13383
HEIGHT
15614
29-Jun-2023
15:48

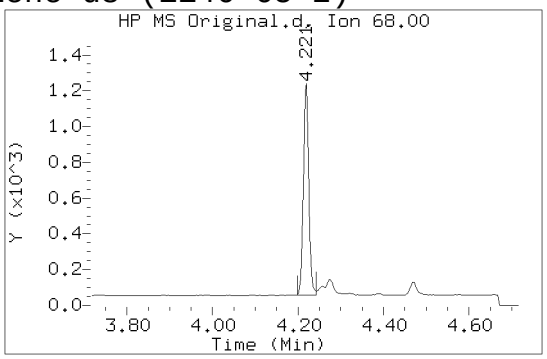


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Naphthalene-d8 (1146-65-2)

BEFORE

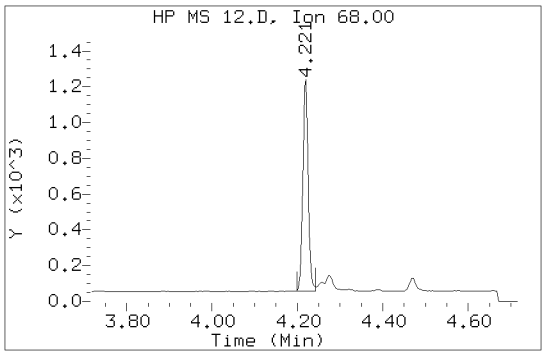
MASS
68
AREA
1062
HEIGHT
1182
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
68
AREA
1062
HEIGHT
1182
29-Jun-2023
15:48

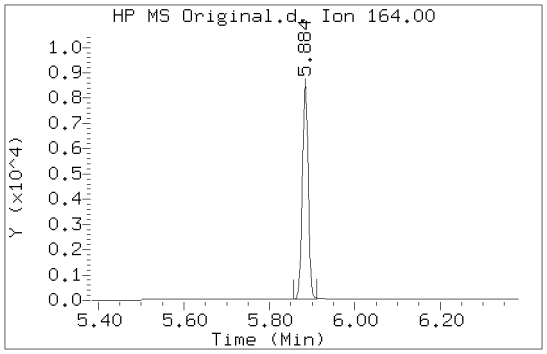
Reason Code:



Acenaphthene-d10 (15067-26-2)

BEFORE

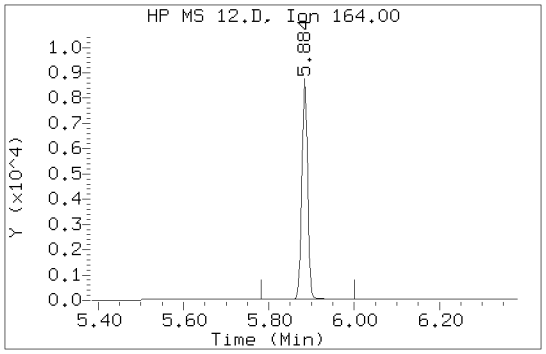
MASS
164
AREA
7893
HEIGHT
8717
16-Jun-2023
14:59
jiayi
lu



AFTER

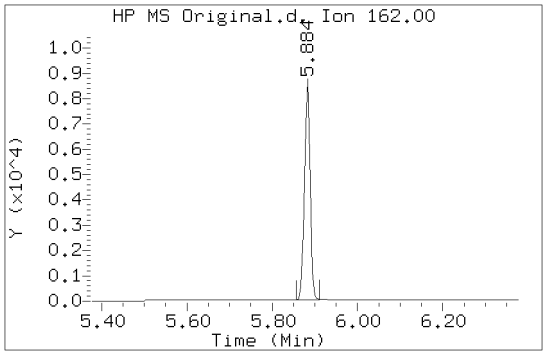
MASS
164
AREA
7945
HEIGHT
8719
29-Jun-2023
15:48

Reason Code:



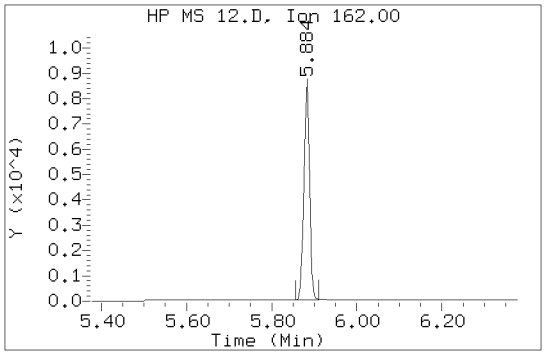
BEFORE

MASS
162
AREA
7978
HEIGHT
8729
16-Jun-2023
14:59
jiayi
lu



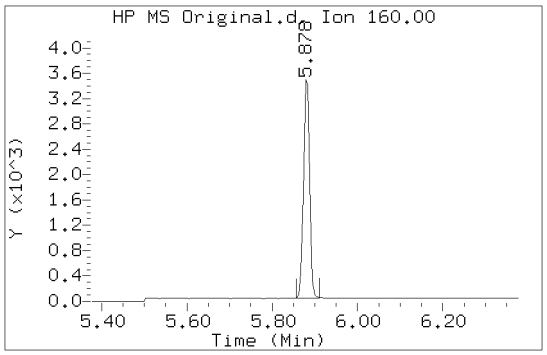
AFTER

MASS
162
AREA
7978
HEIGHT
8729
29-Jun-2023
15:48



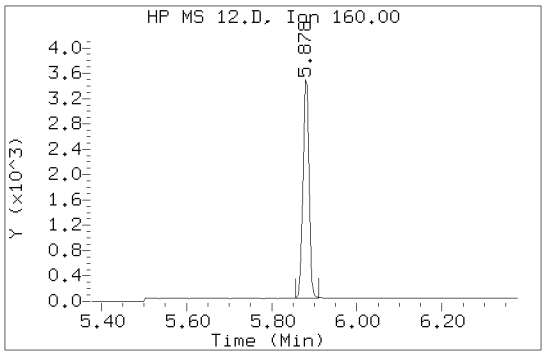
BEFORE

MASS
160
AREA
3420
HEIGHT
3449
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
160
AREA
3420
HEIGHT
3449
29-Jun-2023
15:48

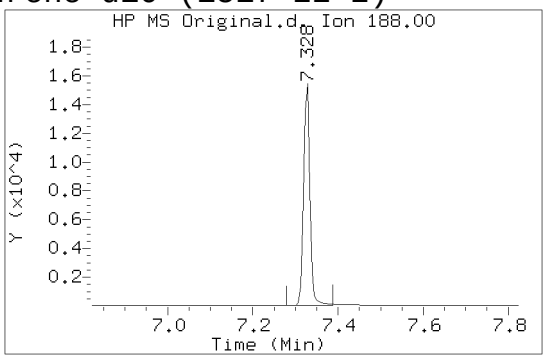


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

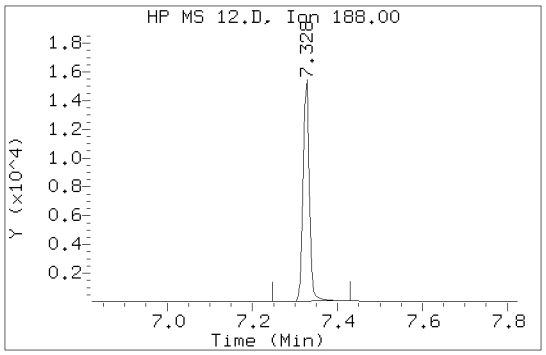
Phenanthrene-d10 (1517-22-2)

Reason Code:

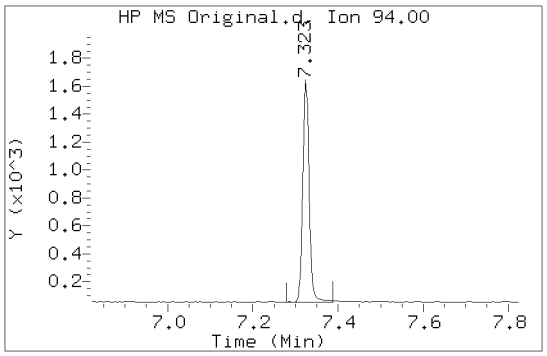
BEFORE
MASS
188
AREA
15580
HEIGHT
15412
16-Jun-2023
14:59
jiayi
lu



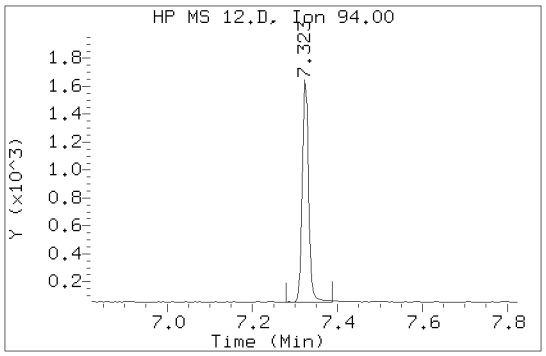
AFTER
MASS
188
AREA
15519
HEIGHT
15398
29-Jun-2023
15:48



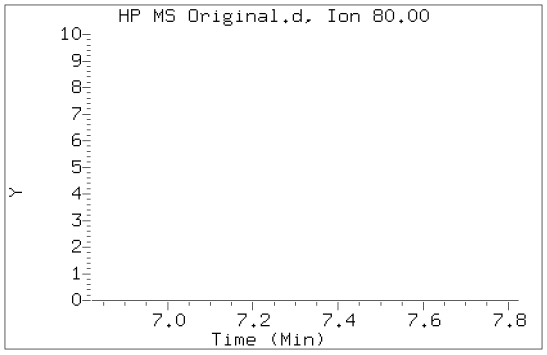
BEFORE
MASS
94
AREA
1615
HEIGHT
1589
16-Jun-2023
14:59
jiayi
lu



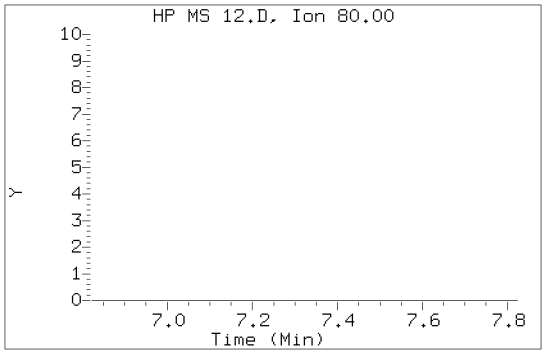
AFTER
MASS
94
AREA
1615
HEIGHT
1589
29-Jun-2023
15:48



BEFORE
MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



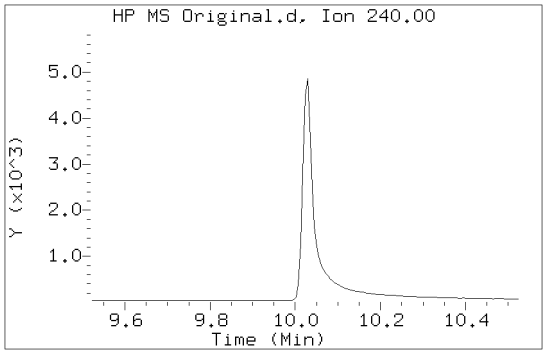
AFTER
MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
15:48



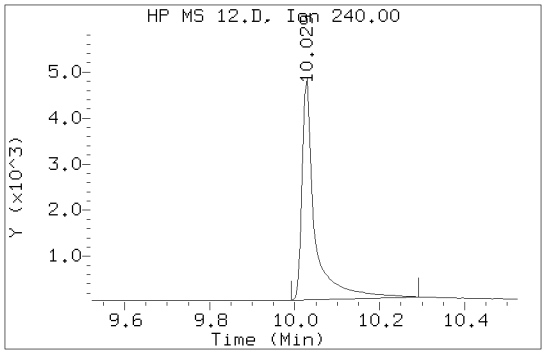
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
240
AREA
9988
HEIGHT
4801
29-Jun-2023
15:48



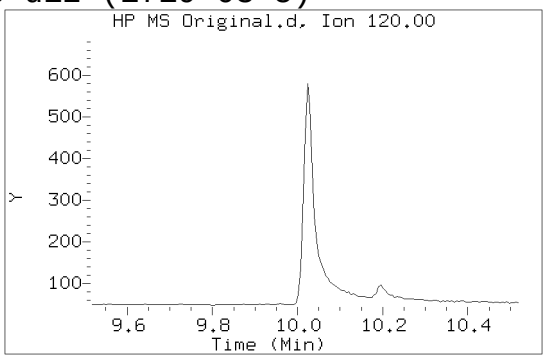
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Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Chrysene-d12 (1719-03-5)

Reason Code:

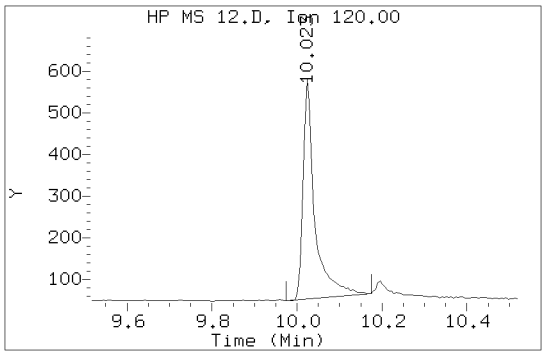
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



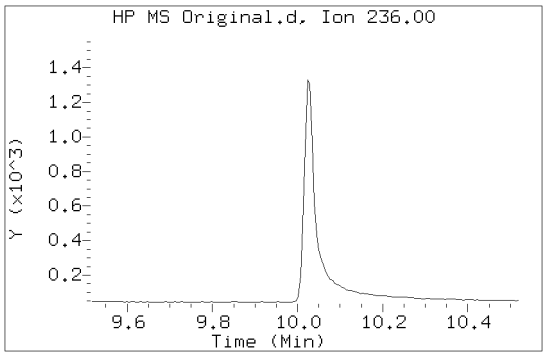
AFTER

MASS
120
AREA
998
HEIGHT
525
29-Jun-2023
15:48



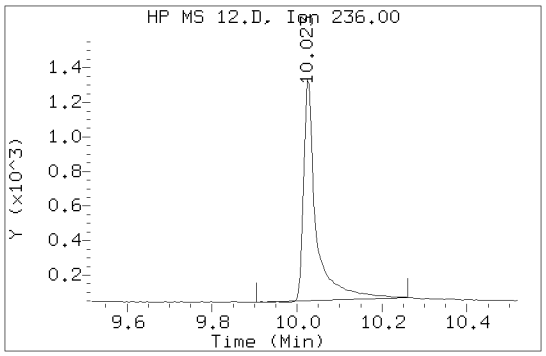
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
236
AREA
2622
HEIGHT
1277
29-Jun-2023
15:48

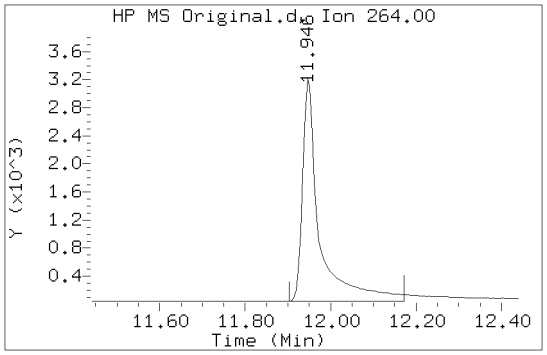


Perylene-d12 (1520-96-3)

Reason Code:

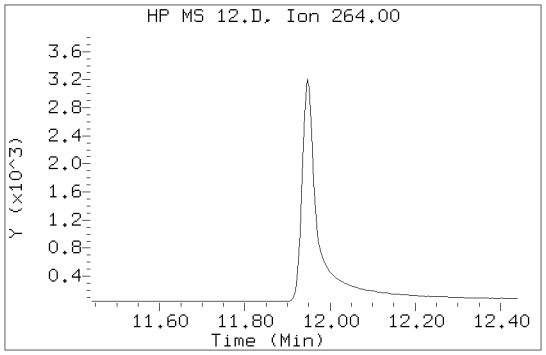
BEFORE

MASS
264
AREA
8613
HEIGHT
3164
16-Jun-2023
14:59
jiayi
lu



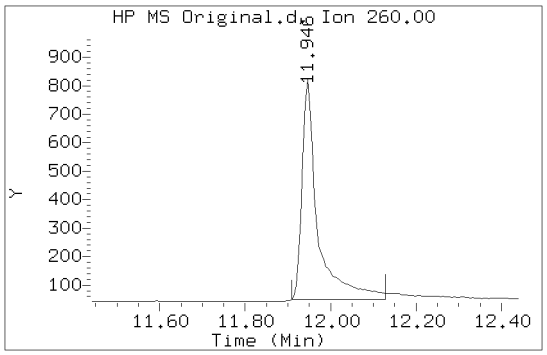
AFTER

MASS
264
AREA
8963
HEIGHT
3161
29-Jun-2023
15:48



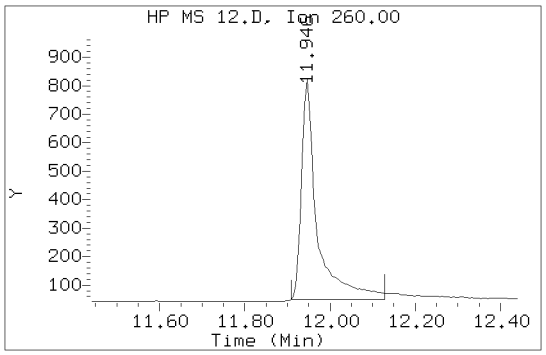
BEFORE

MASS
260
AREA
1977
HEIGHT
772
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
260
AREA
1977
HEIGHT
772
29-Jun-2023
15:48



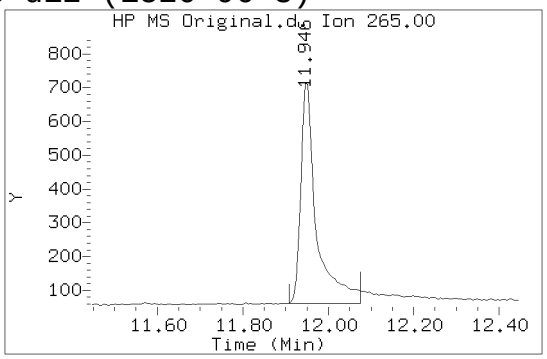
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Perylene-d12 (1520-96-3)

Reason Code:

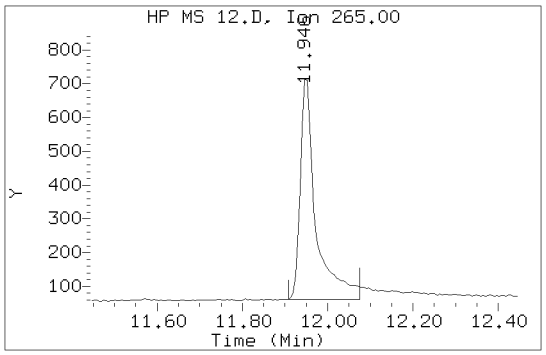
BEFORE

MASS
265
AREA
1666
HEIGHT
651
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
265
AREA
1666
HEIGHT
651
29-Jun-2023
15:48

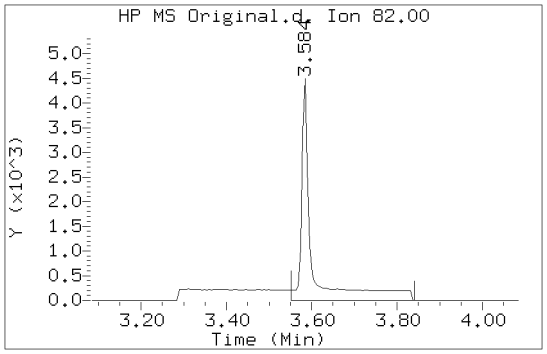


Nitrobenzene-d5 (4165-60-0)

Reason Code:

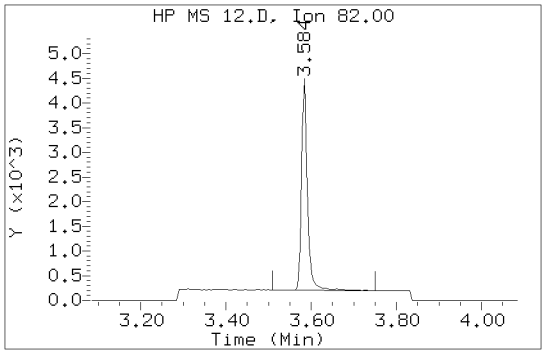
BEFORE

MASS
82
AREA
7524
HEIGHT
4492
16-Jun-2023
14:59
jiayi
lu



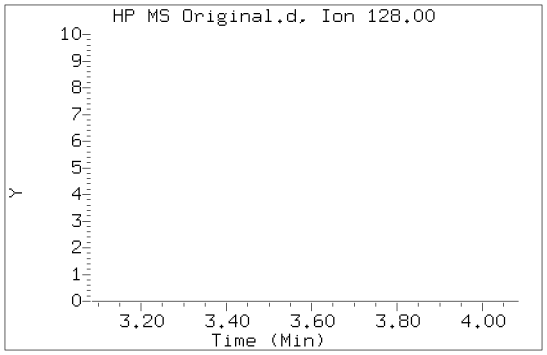
AFTER

MASS
82
AREA
4123
HEIGHT
4285
29-Jun-2023
15:48



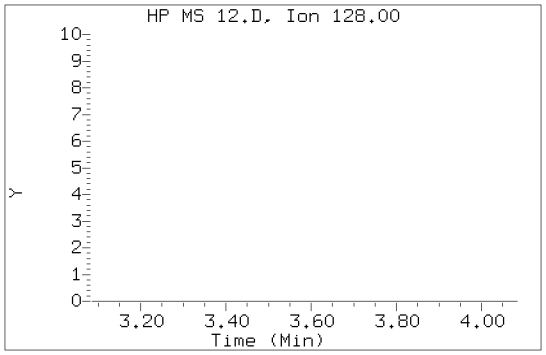
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



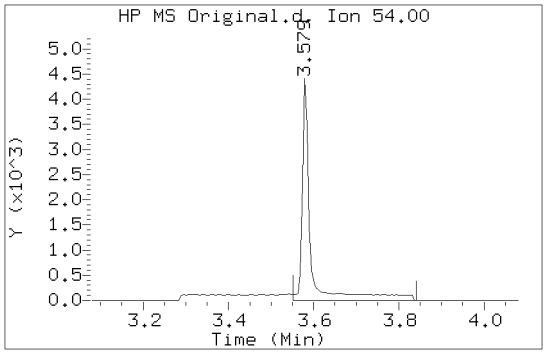
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
15:48



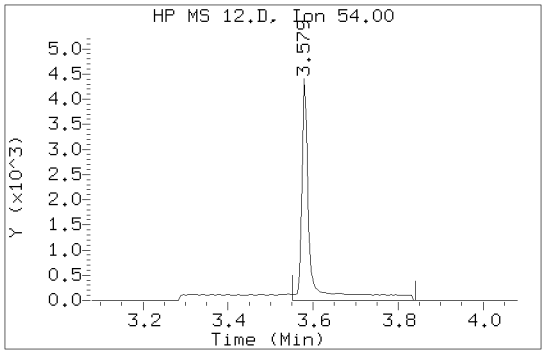
BEFORE

MASS
54
AREA
6015
HEIGHT
4407
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
54
AREA
6015
HEIGHT
4407
29-Jun-2023
15:48

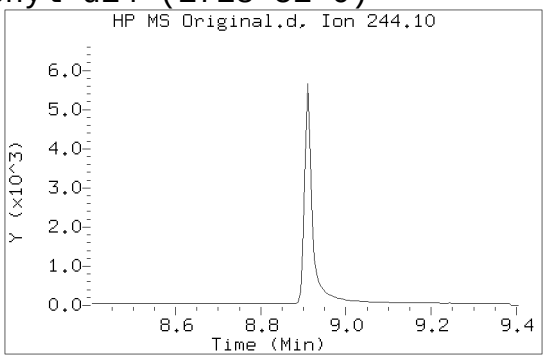


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

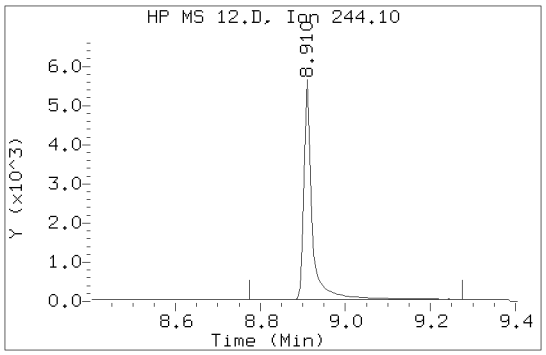
4-Terphenyl-d14 (1718-51-0)

Reason Code:

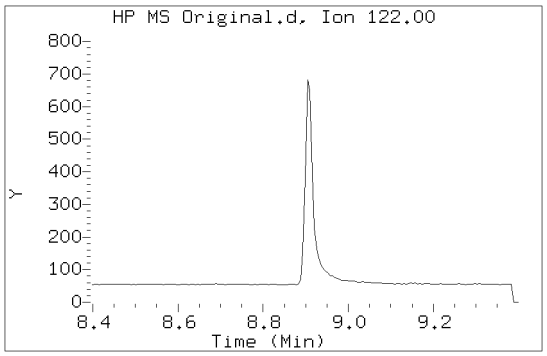
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



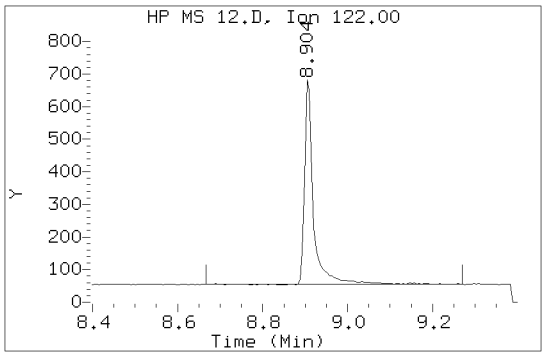
AFTER
MASS
244.1
AREA
7529
HEIGHT
5616
29-Jun-2023
15:48



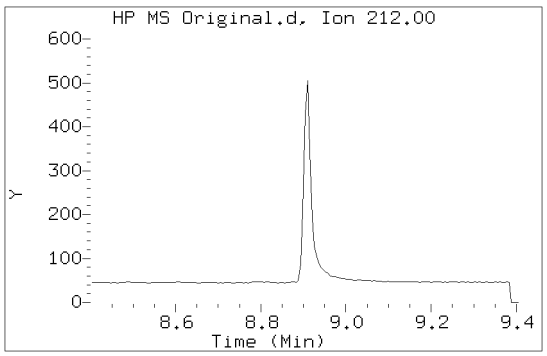
BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



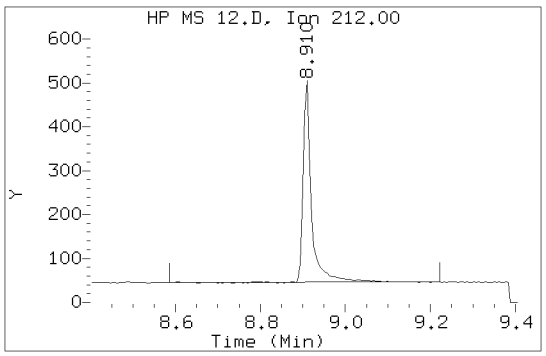
AFTER
MASS
122
AREA
918
HEIGHT
627
29-Jun-2023
15:48



BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



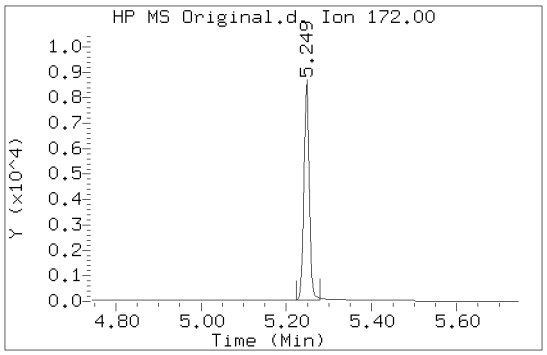
AFTER
MASS
212
AREA
625
HEIGHT
459
29-Jun-2023
15:48



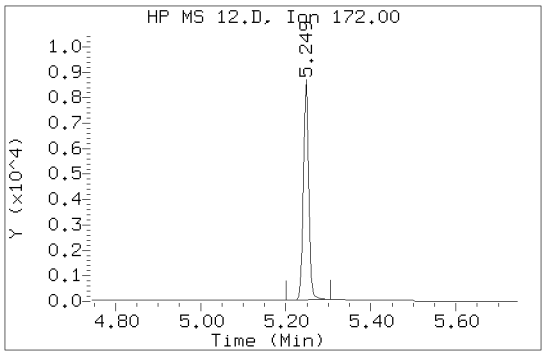
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
7733
HEIGHT
8663
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
172
AREA
7708
HEIGHT
8650
29-Jun-2023
15:48



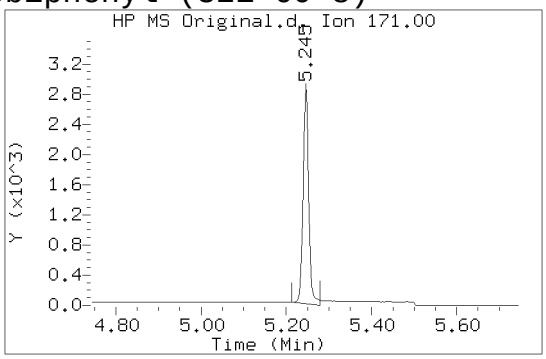
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

2-Fluorobiphenyl (321-60-8)

Reason Code:

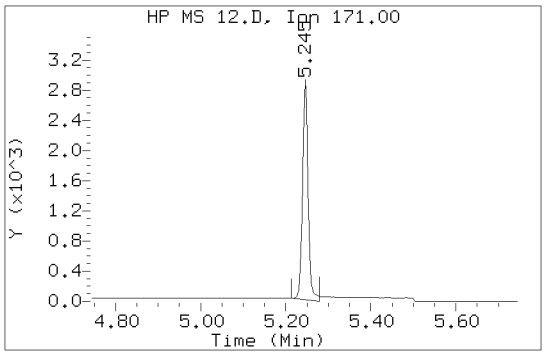
BEFORE

MASS
171
AREA
2685
HEIGHT
2917
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
171
AREA
2685
HEIGHT
2917
29-Jun-2023
15:48



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Lab Smp Id: 14DXICAL-0.5 Client Smp ID: 14DXICAL-0.5
Inj Date : 16-JUN-2023 14:51
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.5
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:38 Cal File: 09.D
Als bottle: 14 Calibration Sample, Level: 8
Dil Factor: 1.00000
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	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	3.122	3.122	(1.000)	4165	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13989	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.579	3.579	(0.848)	19311	0.50000	0.4566(AM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	8414	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	39708	0.50000	0.4608(AM)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	16472	0.10000	(M)
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	10483	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	39805	0.50000	0.5203(AM)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	8460	0.10000	(M)
1 1,4-Dioxane	58	1.452	1.452	(0.465)	6496	0.50000	0.4630(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.

01250628

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D

Date : 16-JUN-2023 14:51

Client ID: 14DXICAL-0.5

Instrument: SV6.i

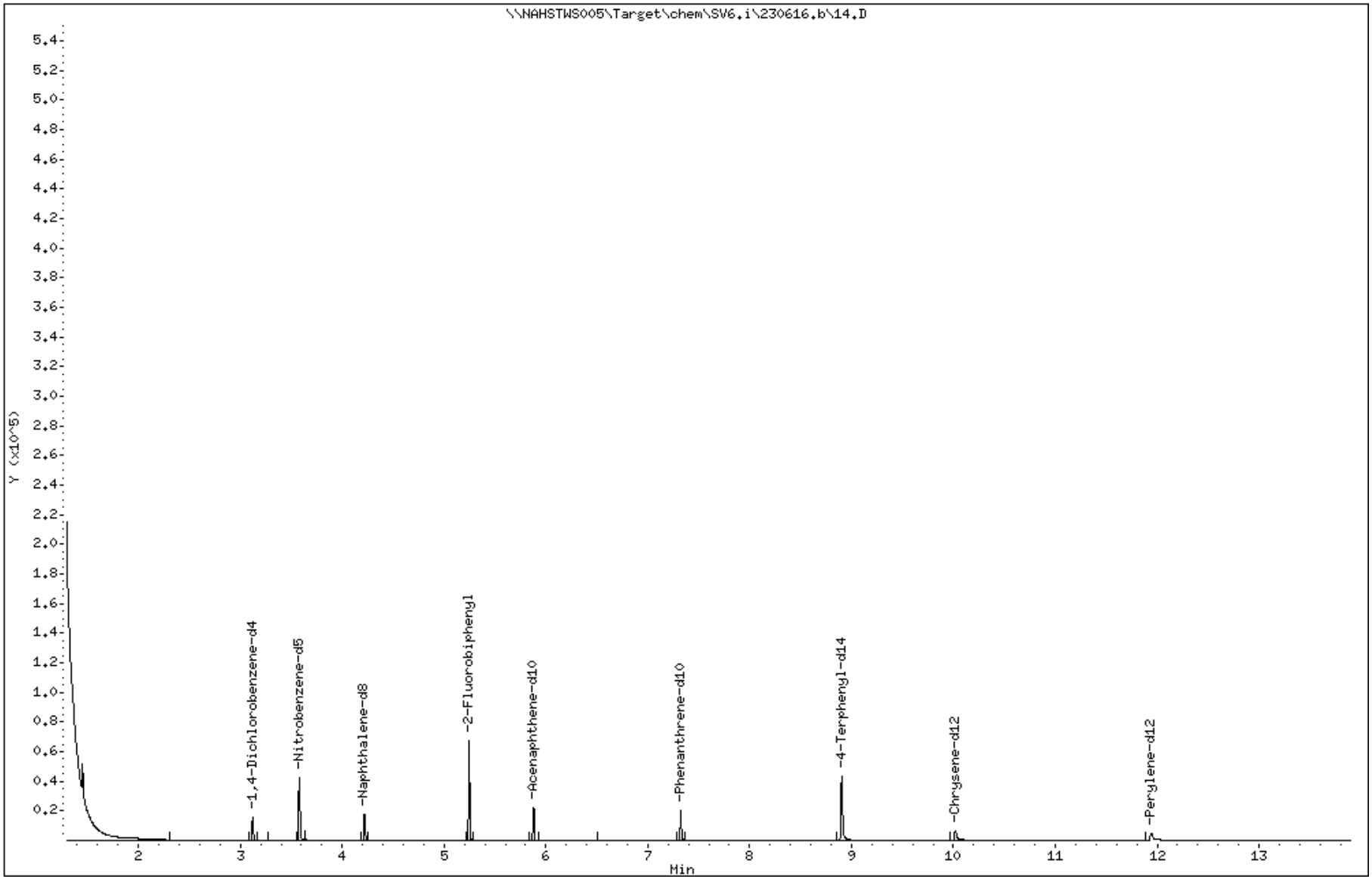
Sample Info: 14DXICAL-0.5

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



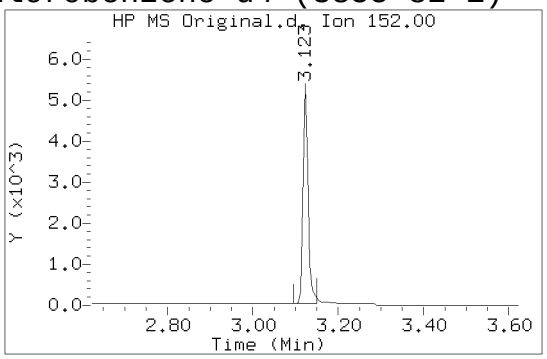
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

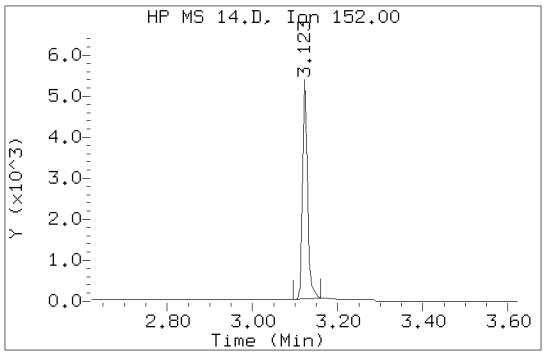
BEFORE

MASS
152
AREA
4211
HEIGHT
5358
16-Jun-2023
15:06
ALSHS
Server



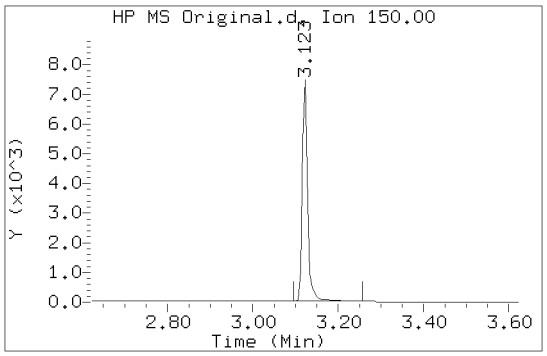
AFTER

MASS
152
AREA
4165
HEIGHT
5341
29-Jun-2023
14:27
ALSHS
Ser



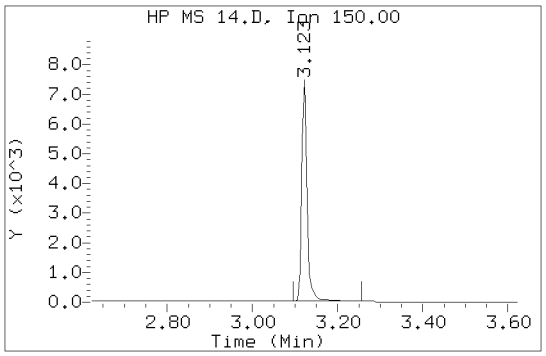
BEFORE

MASS
150
AREA
6228
HEIGHT
7441
16-Jun-2023
15:06
ALSHS
Server



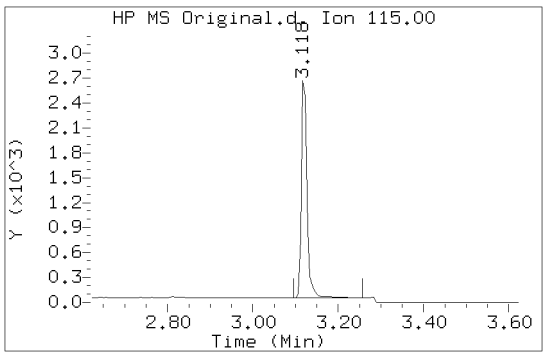
AFTER

MASS
150
AREA
6228
HEIGHT
7441
29-Jun-2023
14:27
ALSHS
Ser



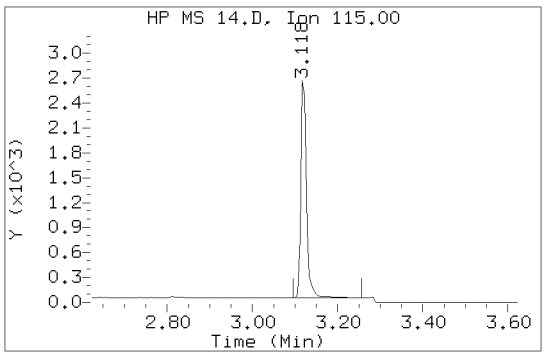
BEFORE

MASS
115
AREA
2367
HEIGHT
2615
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
115
AREA
2367
HEIGHT
2615
29-Jun-2023
14:27
ALSHS
Ser

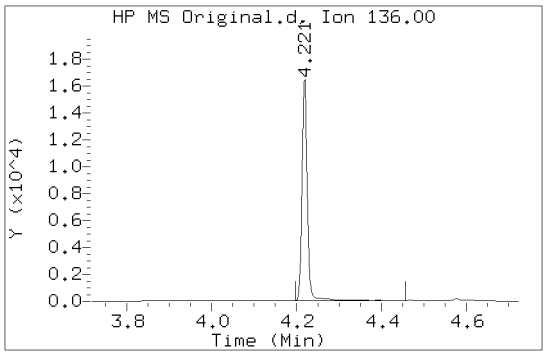


Naphthalene-d8 (1146-65-2)

Reason Code:

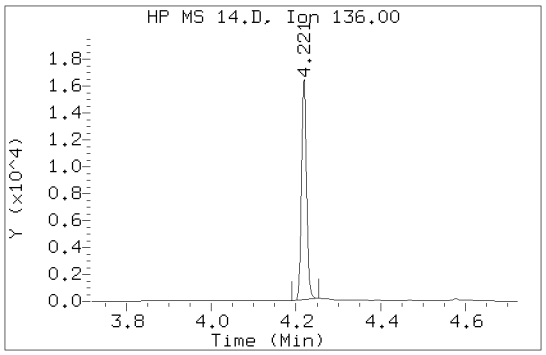
BEFORE

MASS
136
AREA
14856
HEIGHT
16448
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
136
AREA
13989
HEIGHT
16349
29-Jun-2023
14:27
ALSHS
Ser



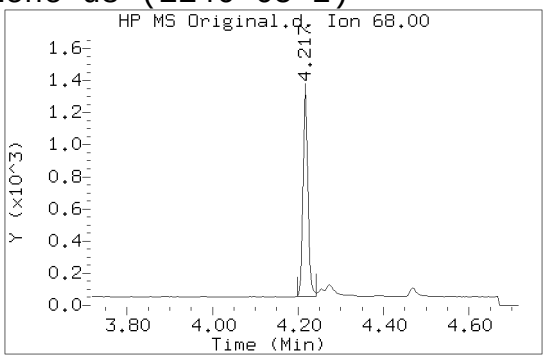
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Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Naphthalene-d8 (1146-65-2)

Reason Code:

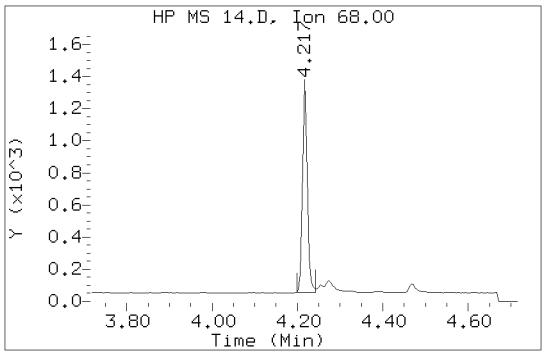
BEFORE

MASS
68
AREA
1074
HEIGHT
1326
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
68
AREA
1074
HEIGHT
1326
29-Jun-2023
14:27
ALSHS
Ser

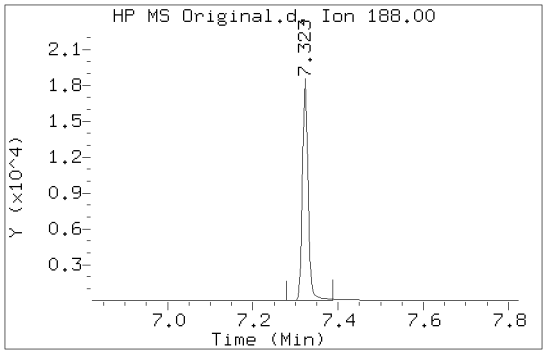


Phenanthrene-d10 (1517-22-2)

Reason Code:

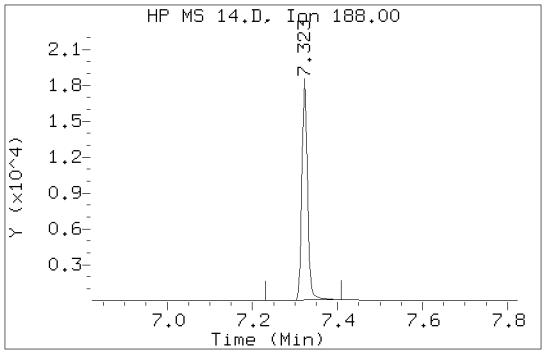
BEFORE

MASS
188
AREA
16664
HEIGHT
18523
16-Jun-2023
15:06
ALSHS
Server



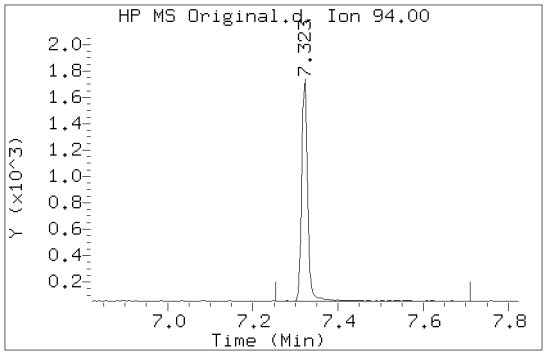
AFTER

MASS
188
AREA
16472
HEIGHT
18498
29-Jun-2023
14:27
ALSHS
Ser



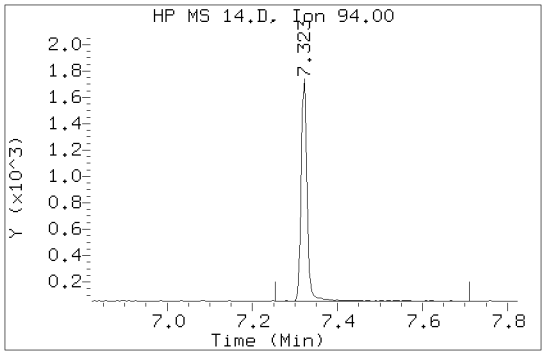
BEFORE

MASS
94
AREA
1634
HEIGHT
1685
16-Jun-2023
15:06
ALSHS
Server



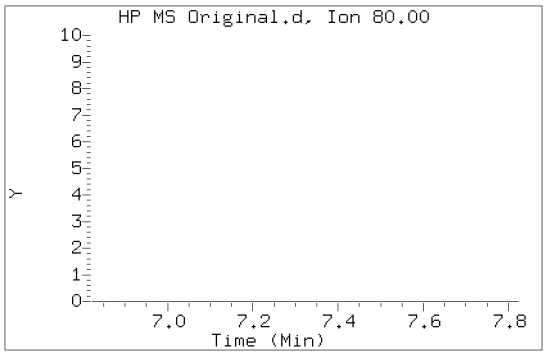
AFTER

MASS
94
AREA
1634
HEIGHT
1685
29-Jun-2023
14:27
ALSHS
Ser



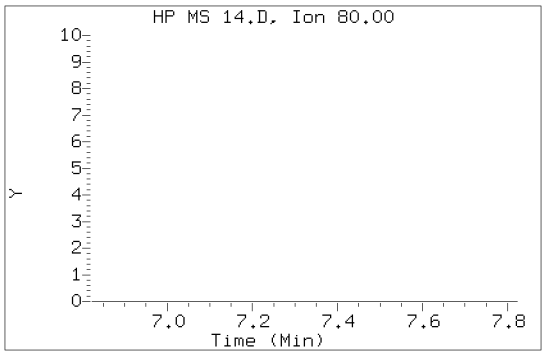
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser

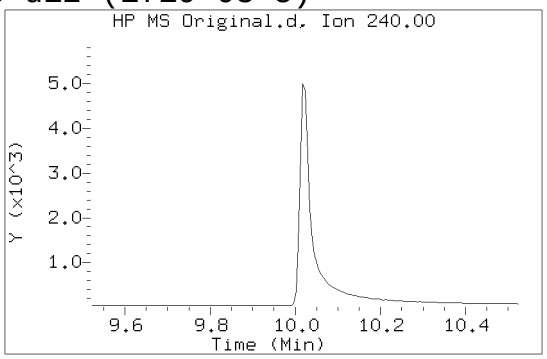


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Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

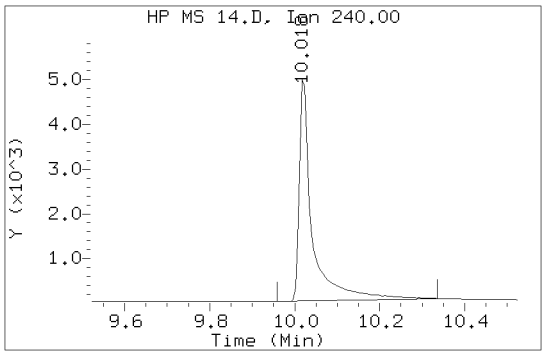
Chrysene-d12 (1719-03-5)

Reason Code:

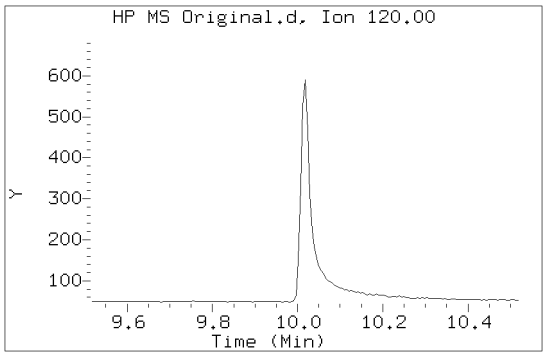
BEFORE
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



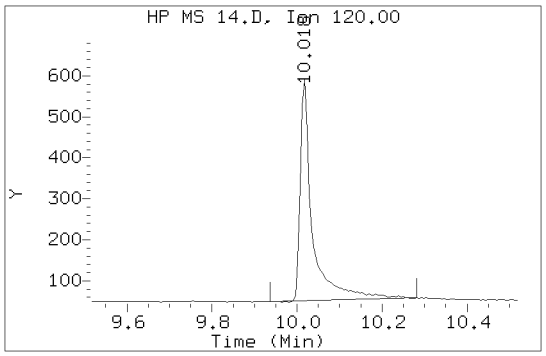
AFTER
MASS
240
AREA
10483
HEIGHT
4943
29-Jun-2023
14:27
ALSHS
Ser



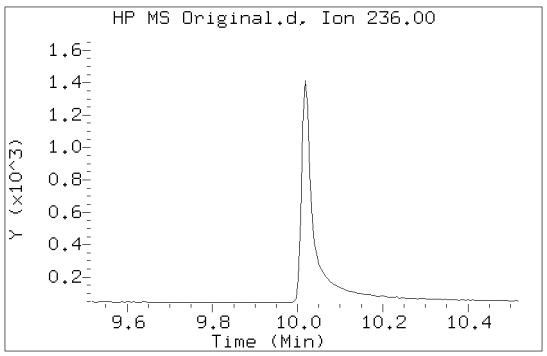
BEFORE
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



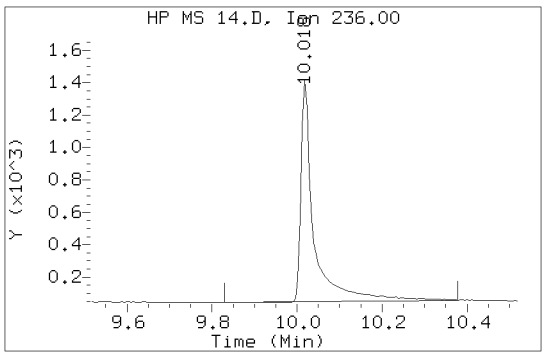
AFTER
MASS
120
AREA
1068
HEIGHT
538
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



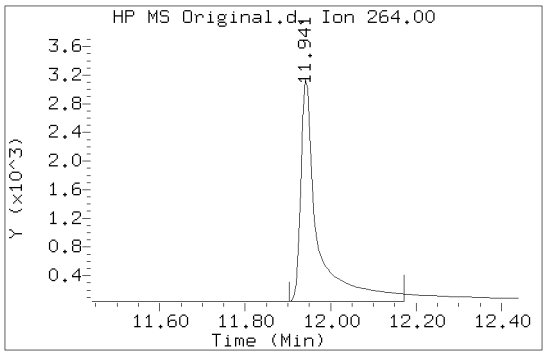
AFTER
MASS
236
AREA
2872
HEIGHT
1362
29-Jun-2023
14:27
ALSHS
Ser



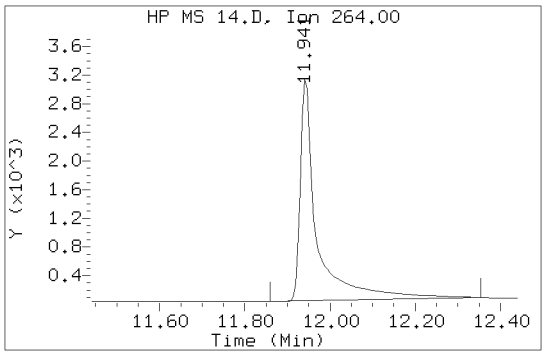
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
264
AREA
8406
HEIGHT
3088
16-Jun-2023
15:06
ALSHS
Server



AFTER
MASS
264
AREA
8460
HEIGHT
3081
29-Jun-2023
14:27
ALSHS
Ser



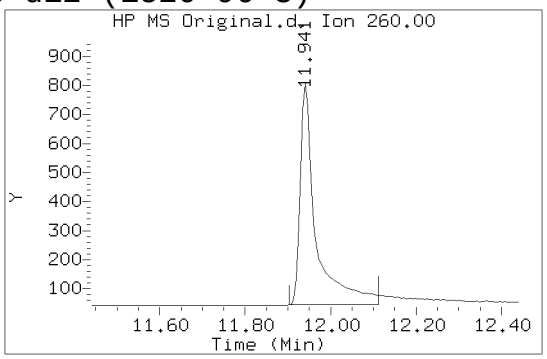
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Perylene-d12 (1520-96-3)

Reason Code:

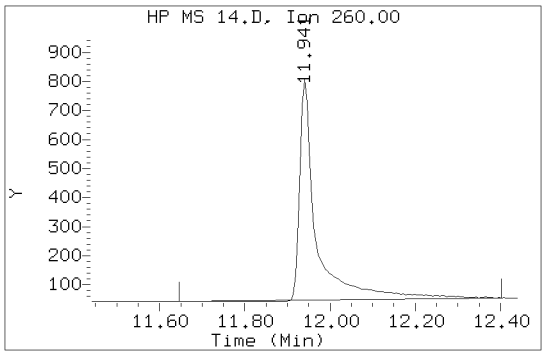
BEFORE

MASS
260
AREA
1950
HEIGHT
761
16-Jun-2023
15:06
ALSHS
Server



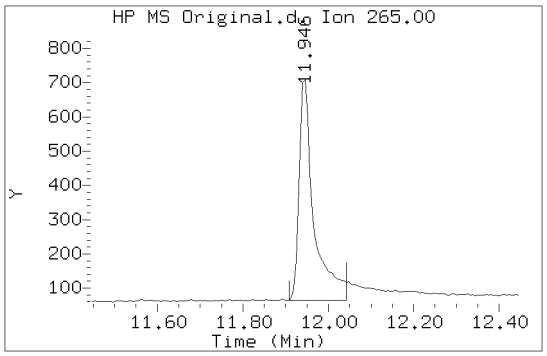
AFTER

MASS
260
AREA
2034
HEIGHT
757
29-Jun-2023
14:27
ALSHS
Ser



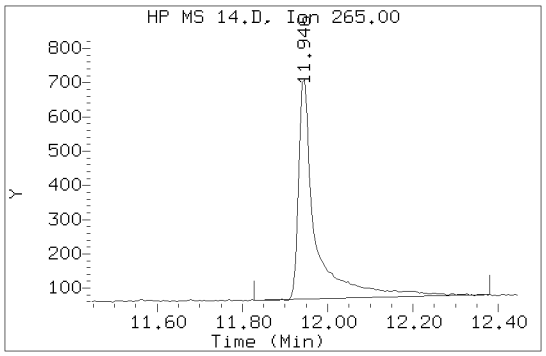
BEFORE

MASS
265
AREA
1539
HEIGHT
643
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
265
AREA
1765
HEIGHT
639
29-Jun-2023
14:27
ALSHS
Ser

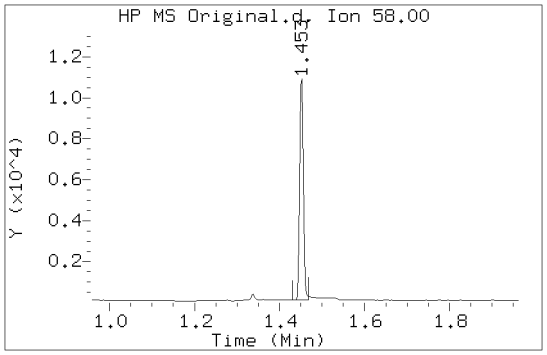


1,4-Dioxane ()

Reason Code:

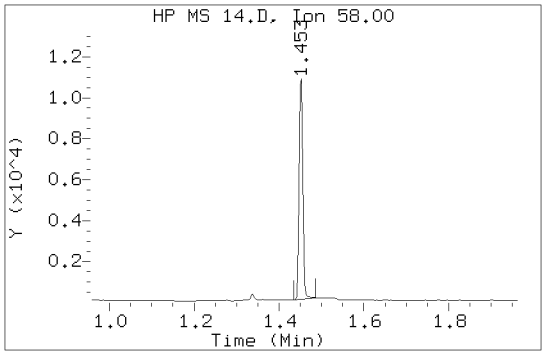
BEFORE

MASS
58
AREA
6535
HEIGHT
10789
16-Jun-2023
15:06
ALSHS
Server



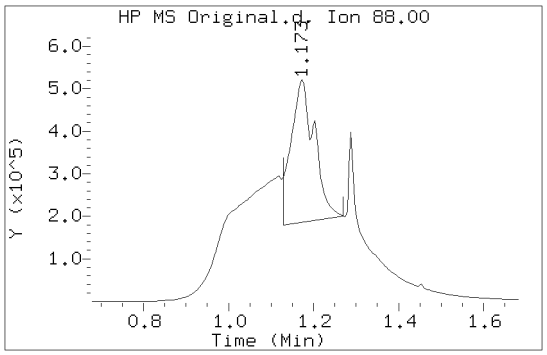
AFTER

MASS
58
AREA
6496
HEIGHT
10751
29-Jun-2023
14:27
ALSHS
Ser



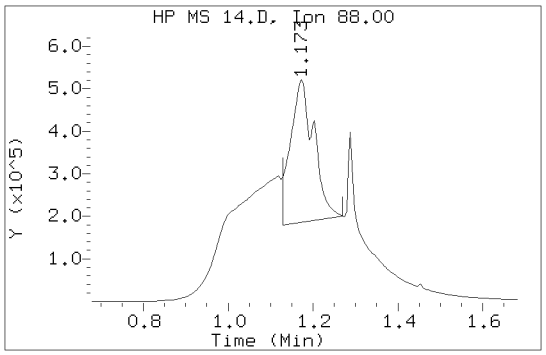
BEFORE

MASS
88
AREA
1285756
HEIGHT
334955
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
88
AREA
1285756
HEIGHT
334955
29-Jun-2023
14:27
ALSHS
Ser



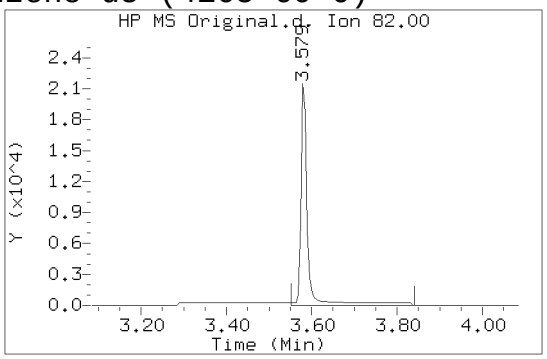
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Nitrobenzene-d5 (4165-60-0)

Reason Code:

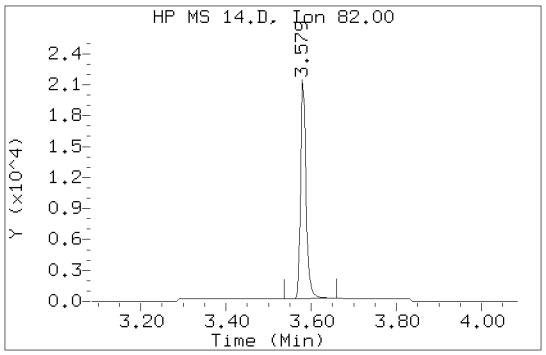
BEFORE

MASS
82
AREA
23560
HEIGHT
21488
16-Jun-2023
15:06
ALSHS
Server



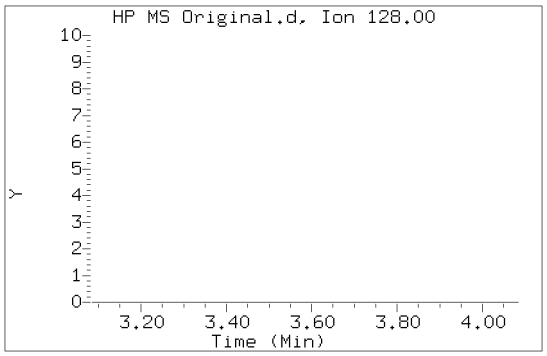
AFTER

MASS
82
AREA
19311
HEIGHT
21230
29-Jun-2023
14:27
ALSHS
Ser



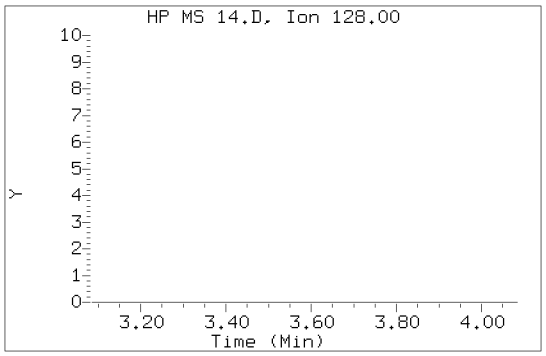
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



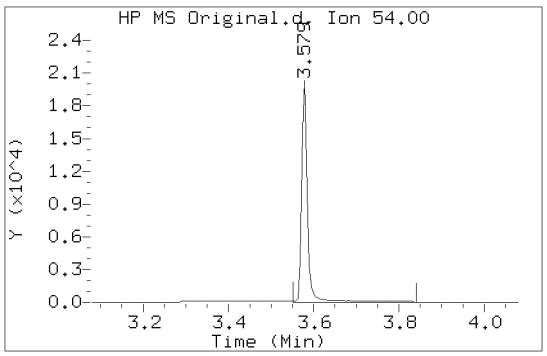
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



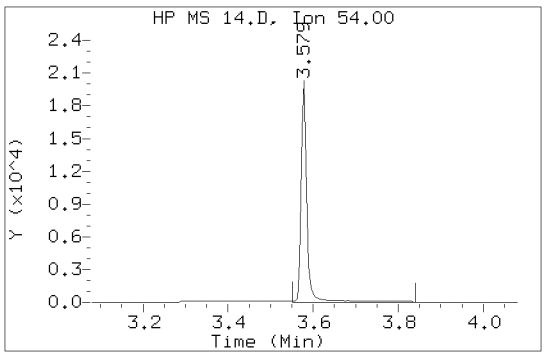
BEFORE

MASS
54
AREA
20065
HEIGHT
20304
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
54
AREA
20065
HEIGHT
20304
29-Jun-2023
14:27
ALSHS
Ser

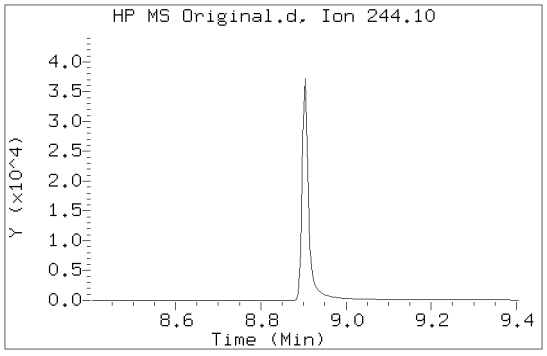


4-Terphenyl-d14 (1718-51-0)

Reason Code:

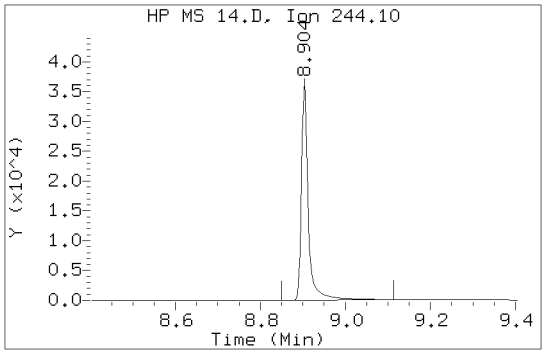
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
244.1
AREA
39805
HEIGHT
37107
29-Jun-2023
14:27
ALSHS
Ser



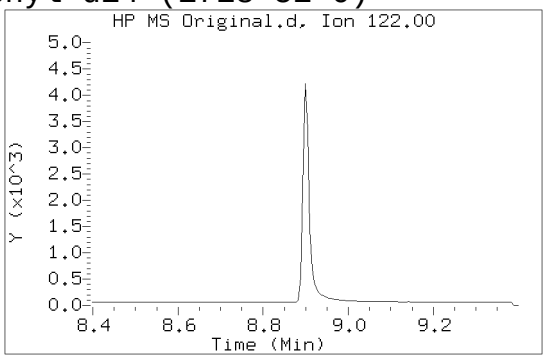
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

4-Terphenyl-d14 (1718-51-0)

Reason Code:

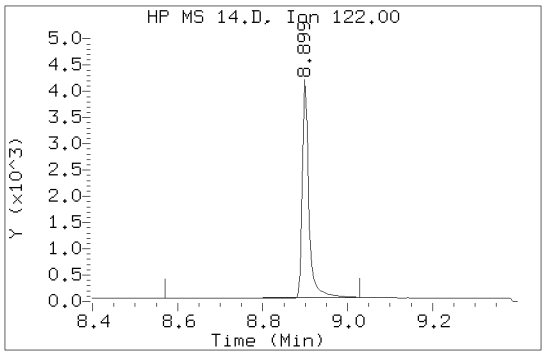
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



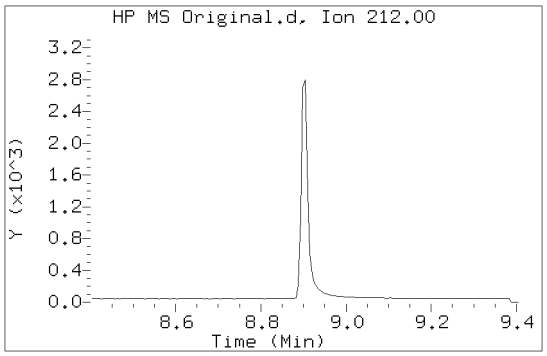
AFTER

MASS
122
AREA
4228
HEIGHT
4149
29-Jun-2023
14:27
ALSHS
Ser



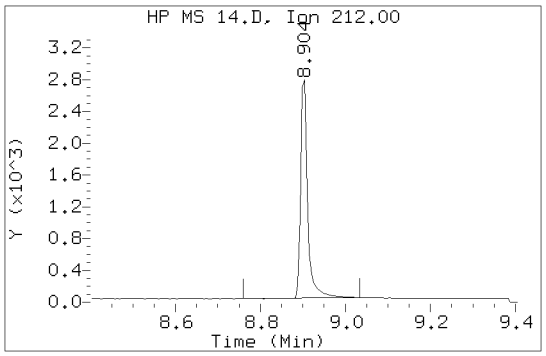
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
212
AREA
3105
HEIGHT
2745
29-Jun-2023
14:27
ALSHS
Ser

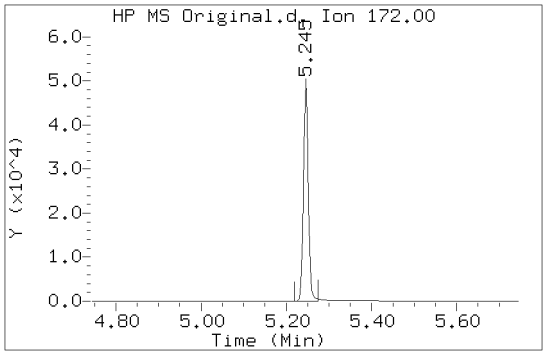


2-Fluorobiphenyl (321-60-8)

Reason Code:

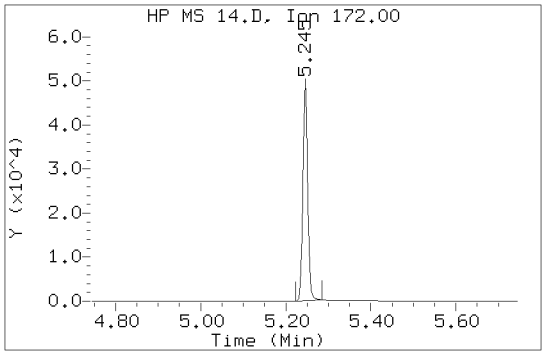
BEFORE

MASS
172
AREA
40002
HEIGHT
50410
16-Jun-2023
15:06
ALSHS
Server



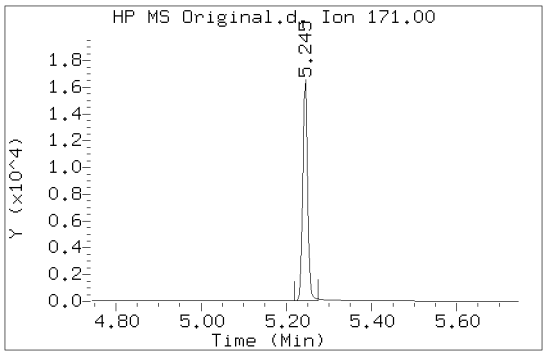
AFTER

MASS
172
AREA
39708
HEIGHT
50322
29-Jun-2023
14:27
ALSHS
Ser



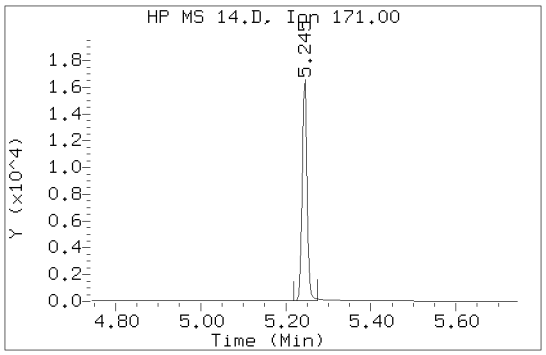
BEFORE

MASS
171
AREA
13389
HEIGHT
16514
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
171
AREA
13389
HEIGHT
16514
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Lab Smp Id: 14DXICAL-0.2 Client Smp ID: 14DXICAL-0.2
Inj Date : 16-JUN-2023 15:56
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.2RR
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 14:51 Cal File: 14.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
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	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	3.122	3.122	(1.000)	3731	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	12688	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	8839	0.20000	0.2304(AM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7256	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	18173	0.20000	0.2446(AM)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	14346	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	8796	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.888)	17639	0.20000	0.2748(AM)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	6565	0.10000	(M)
1 1,4-Dioxane	58	1.460	1.460	(0.468)	2996	0.20000	0.2384(Q)

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.

01250637

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D

Date : 16-JUN-2023 15:56

Client ID: 14DXICAL-0.2

Instrument: SV6.i

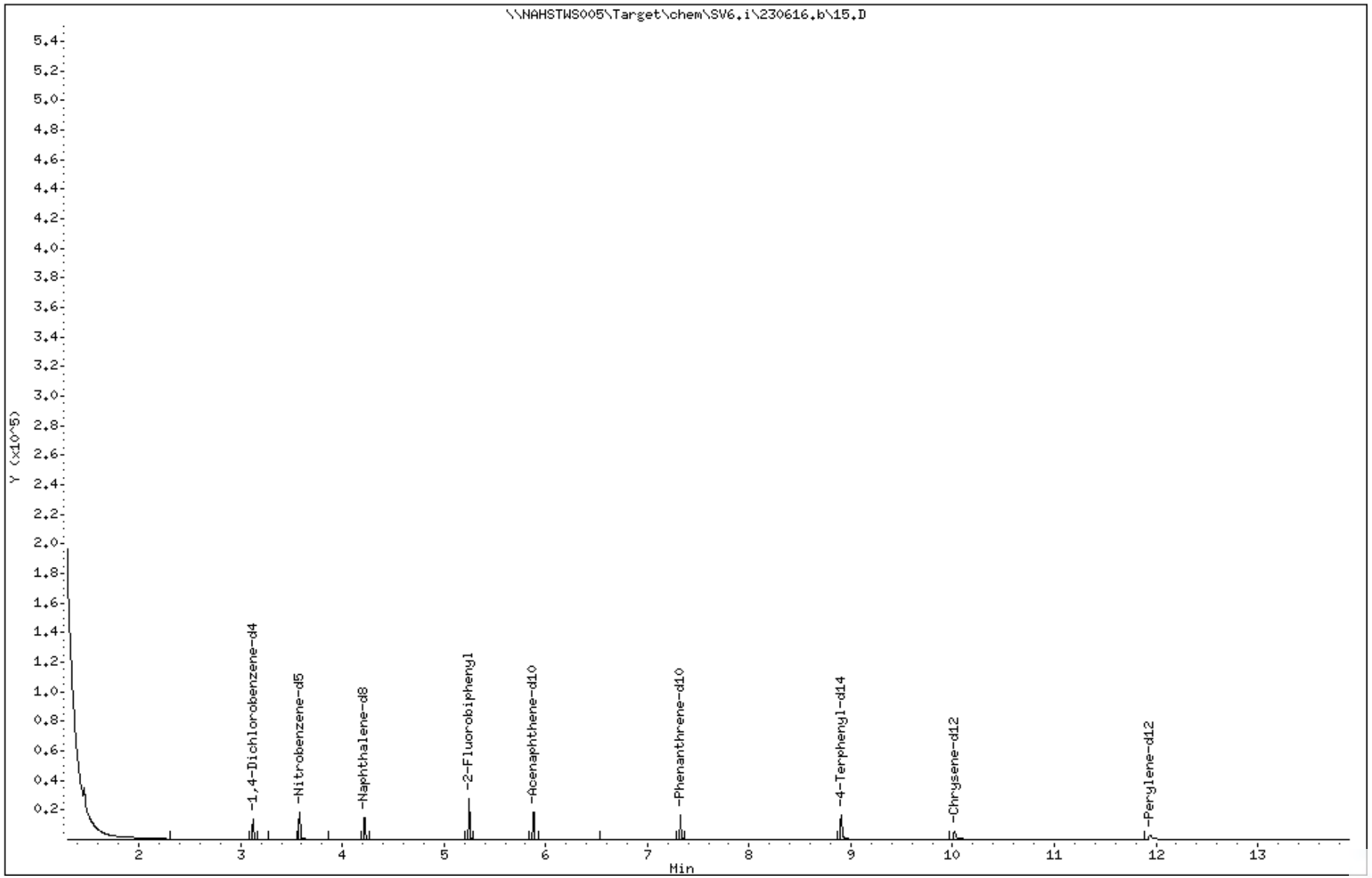
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Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



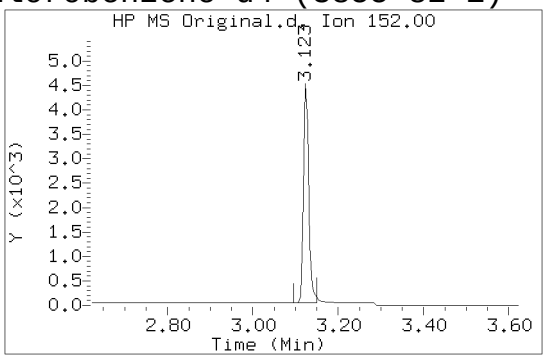
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Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

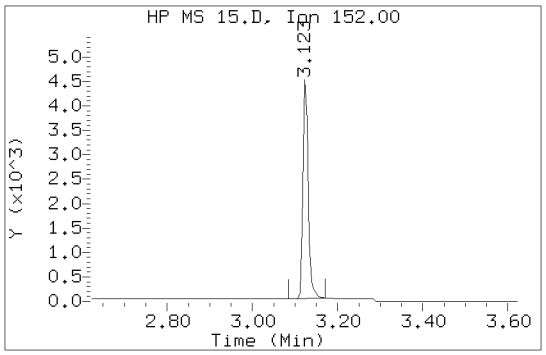
BEFORE

MASS
152
AREA
3749
HEIGHT
4489
16-Jun-2023
16:11
ALSHS
Server



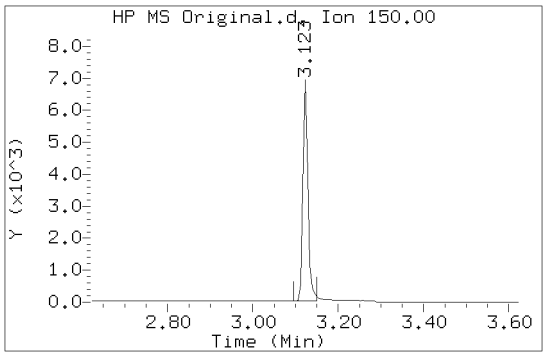
AFTER

MASS
152
AREA
3731
HEIGHT
4478
29-Jun-2023
14:27
ALSHS
Ser



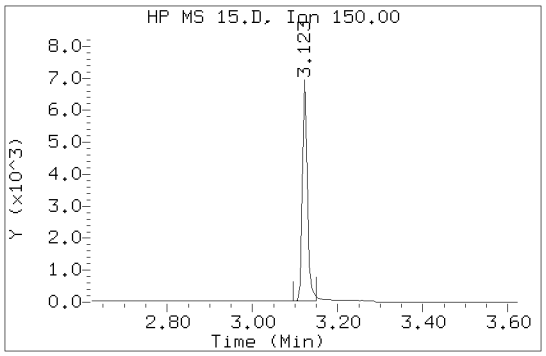
BEFORE

MASS
150
AREA
5426
HEIGHT
6903
16-Jun-2023
16:11
ALSHS
Server



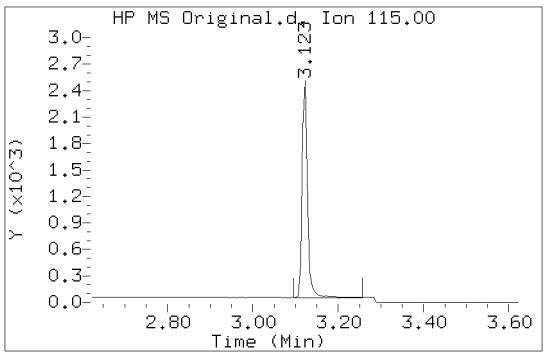
AFTER

MASS
150
AREA
5426
HEIGHT
6903
29-Jun-2023
14:27
ALSHS
Ser



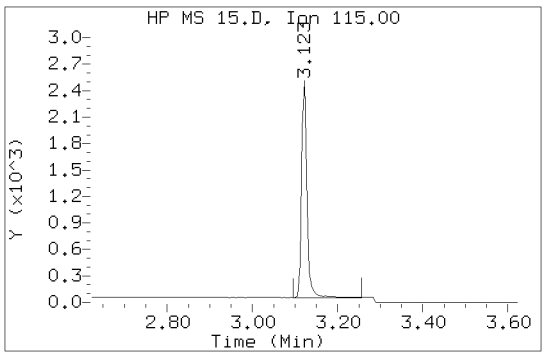
BEFORE

MASS
115
AREA
2094
HEIGHT
2459
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
115
AREA
2094
HEIGHT
2459
29-Jun-2023
14:27
ALSHS
Ser

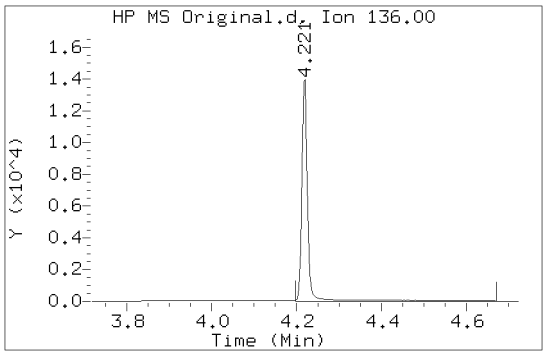


Naphthalene-d8 (1146-65-2)

Reason Code:

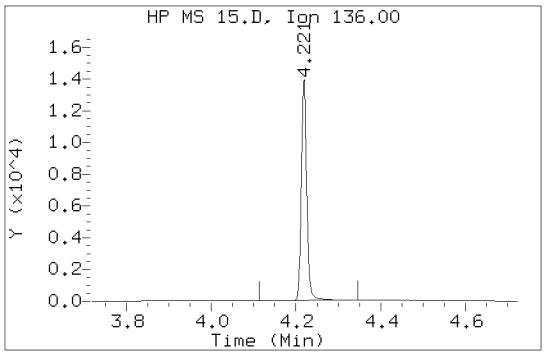
BEFORE

MASS
136
AREA
14465
HEIGHT
13959
16-Jun-2023
16:11
ALSHS
Server



AFTER

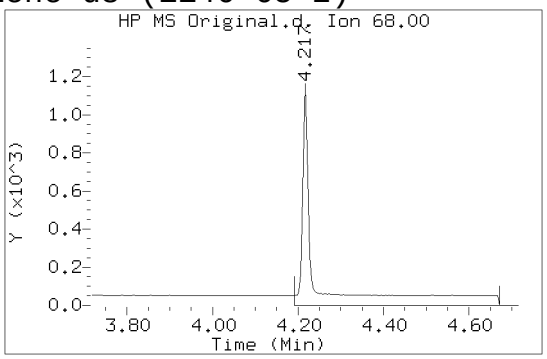
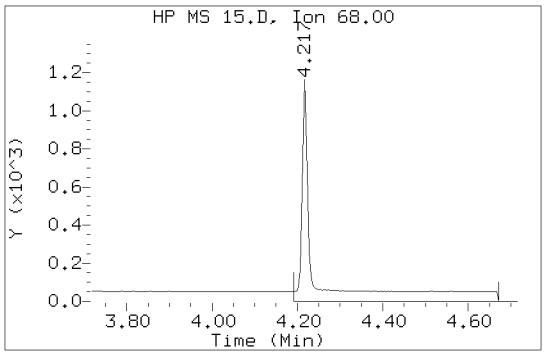
MASS
136
AREA
12688
HEIGHT
13897
29-Jun-2023
14:27
ALSHS
Ser



Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

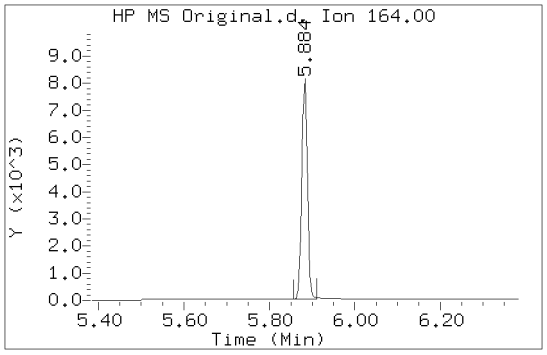
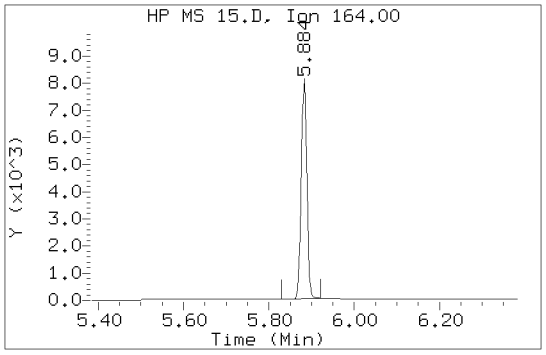
Naphthalene-d8 (1146-65-2)

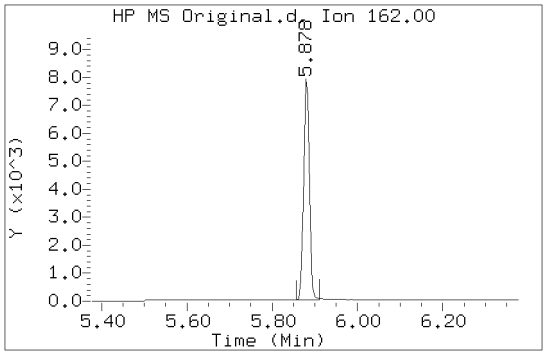
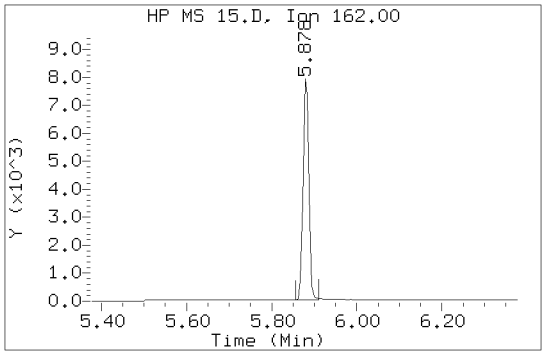
Reason Code:

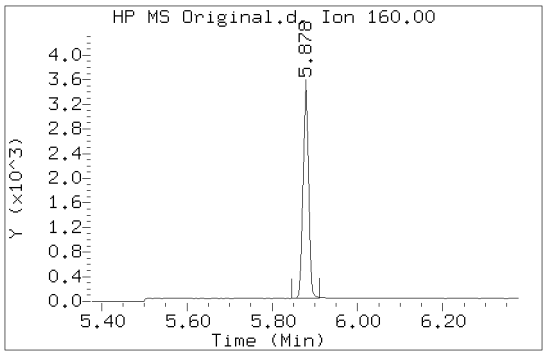
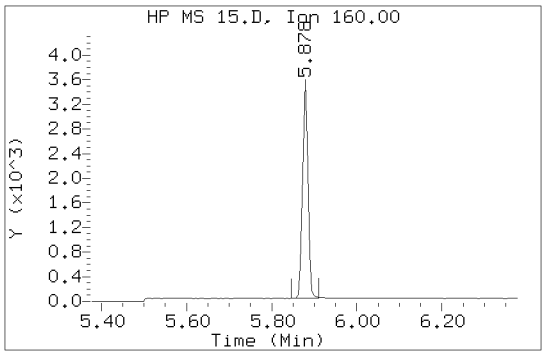
BEFORE		AFTER	
MASS		MASS	
68		68	
AREA		AREA	
2461		2461	
HEIGHT		HEIGHT	
1163		1163	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	

Acenaphthene-d10 (15067-26-2)

Reason Code:

BEFORE		AFTER	
MASS		MASS	
164		164	
AREA		AREA	
7305		7256	
HEIGHT		HEIGHT	
8114		8100	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	

BEFORE		AFTER	
MASS		MASS	
162		162	
AREA		AREA	
7389		7389	
HEIGHT		HEIGHT	
7893		7893	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	

BEFORE		AFTER	
MASS		MASS	
160		160	
AREA		AREA	
3110		3110	
HEIGHT		HEIGHT	
3554		3554	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	

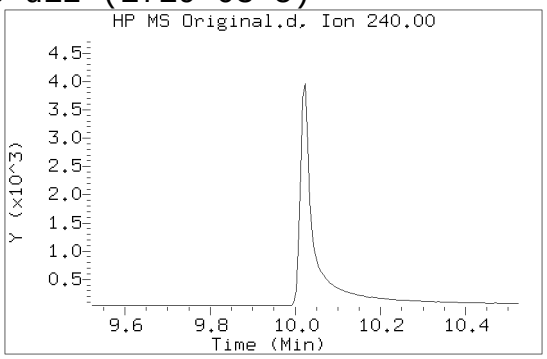
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Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Chrysene-d12 (1719-03-5)

Reason Code:

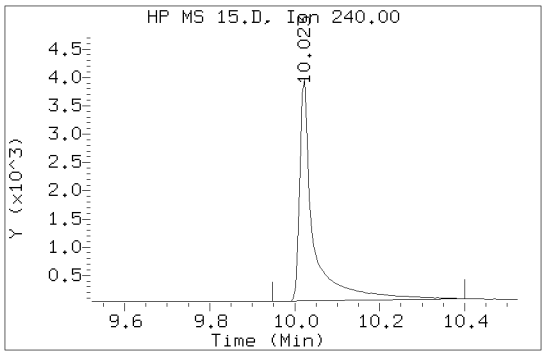
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



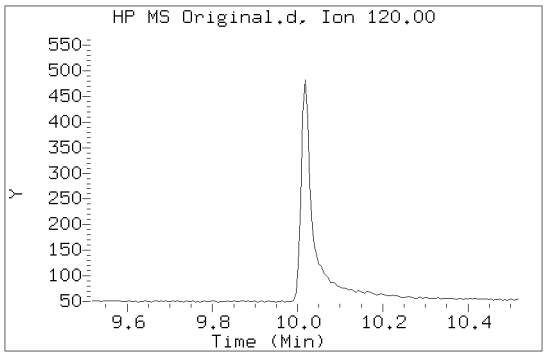
AFTER

MASS
240
AREA
8796
HEIGHT
3907
29-Jun-2023
14:27
ALSHS
Ser



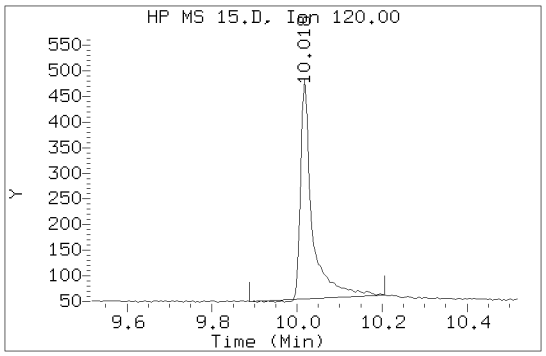
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



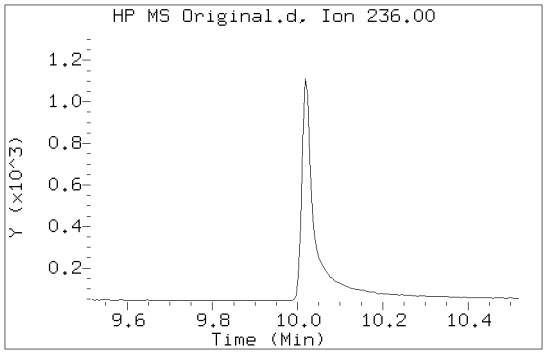
AFTER

MASS
120
AREA
798
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser



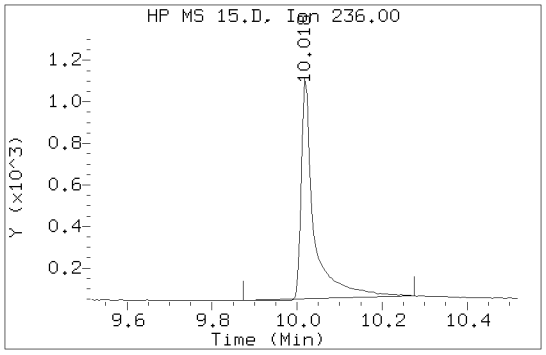
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
236
AREA
2198
HEIGHT
1058
29-Jun-2023
14:27
ALSHS
Ser

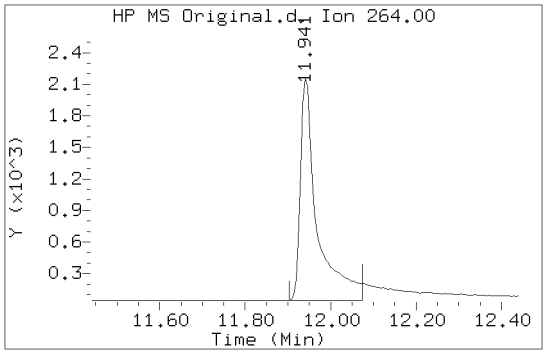


Perylene-d12 (1520-96-3)

Reason Code:

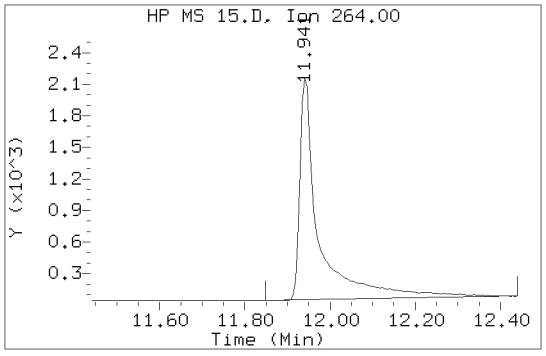
BEFORE

MASS
264
AREA
5713
HEIGHT
2106
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
264
AREA
6565
HEIGHT
2100
29-Jun-2023
14:27
ALSHS
Ser



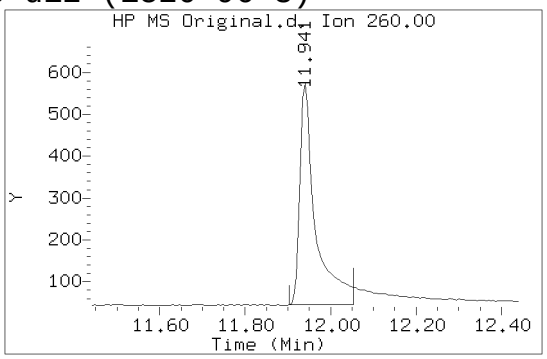
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Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Perylene-d12 (1520-96-3)

Reason Code:

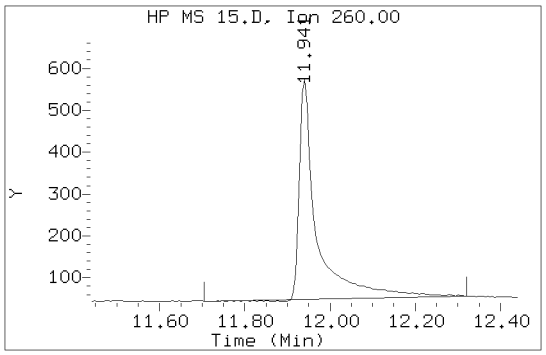
BEFORE

MASS
260
AREA
1348
HEIGHT
528
16-Jun-2023
16:11
ALSHS
Server



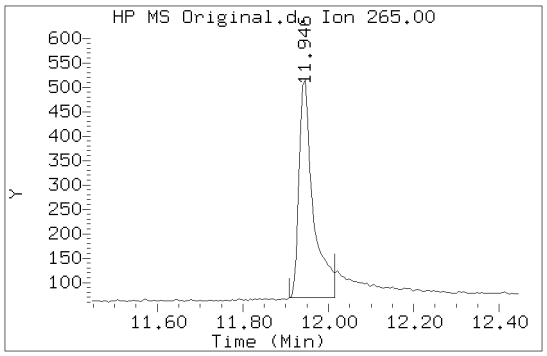
AFTER

MASS
260
AREA
1491
HEIGHT
524
29-Jun-2023
14:27
ALSHS
Ser



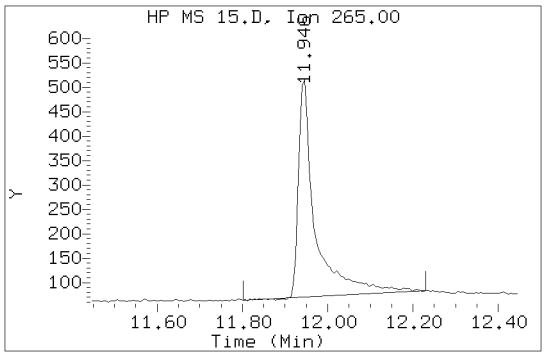
BEFORE

MASS
265
AREA
1037
HEIGHT
446
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
265
AREA
1210
HEIGHT
444
29-Jun-2023
14:27
ALSHS
Ser

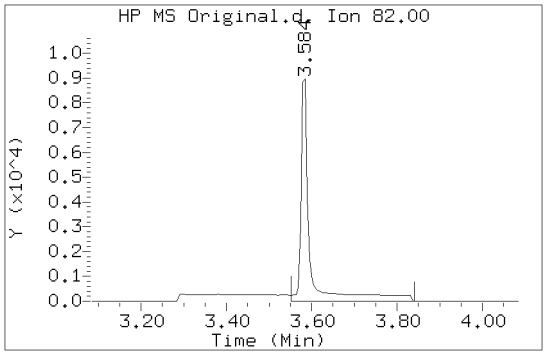


Nitrobenzene-d5 (4165-60-0)

Reason Code:

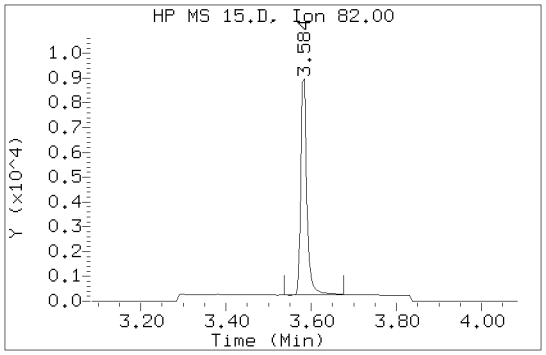
BEFORE

MASS
82
AREA
13113
HEIGHT
8968
16-Jun-2023
16:11
ALSHS
Server



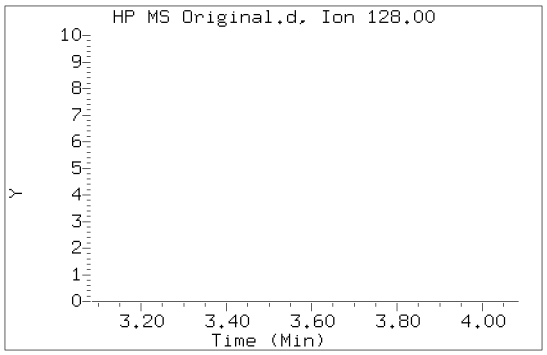
AFTER

MASS
82
AREA
8839
HEIGHT
8709
29-Jun-2023
14:27
ALSHS
Ser



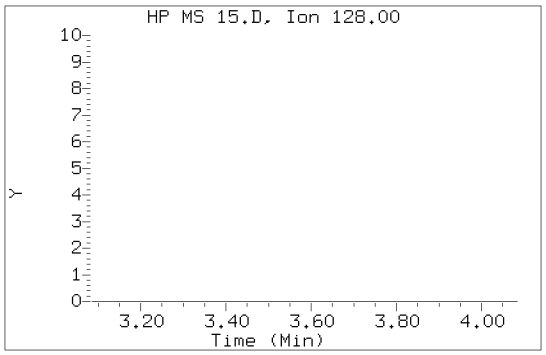
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



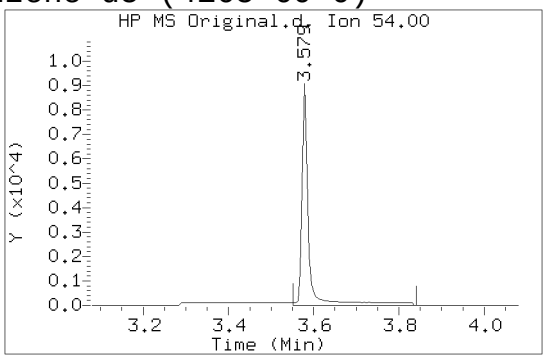
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Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Nitrobenzene-d5 (4165-60-0)

Reason Code:

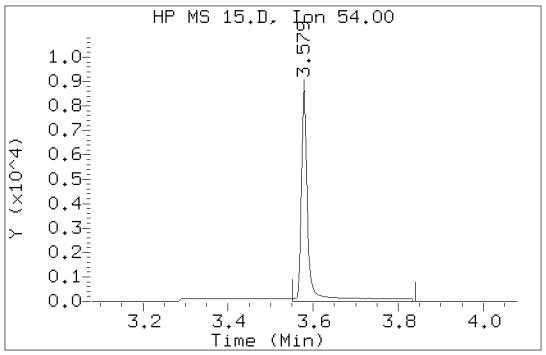
BEFORE

MASS
54
AREA
10106
HEIGHT
9078
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
54
AREA
10106
HEIGHT
9078
29-Jun-2023
14:27
ALSHS
Ser

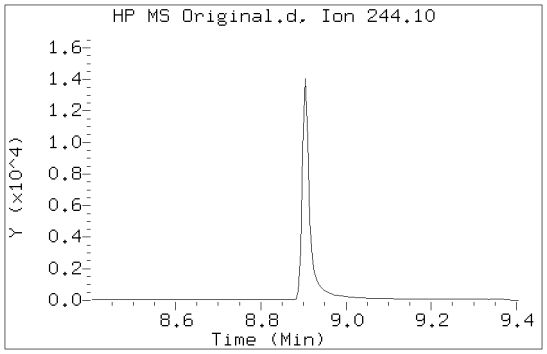


4-Terphenyl-d14 (1718-51-0)

Reason Code:

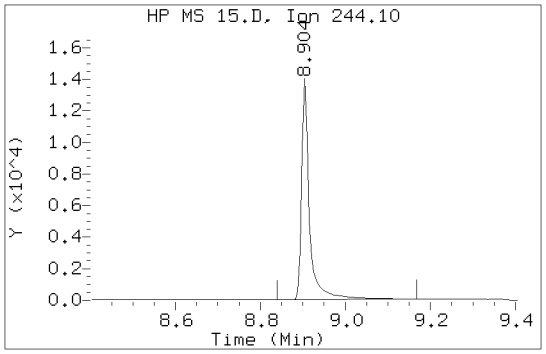
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



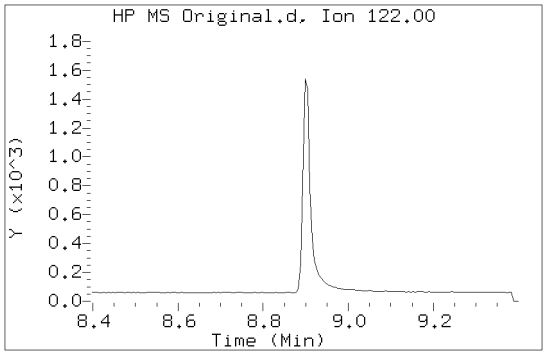
AFTER

MASS
244.1
AREA
17639
HEIGHT
13989
29-Jun-2023
14:27
ALSHS
Ser



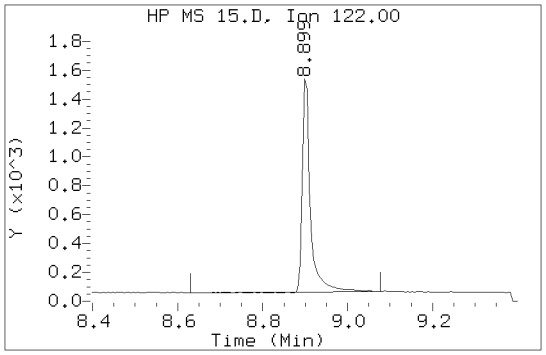
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



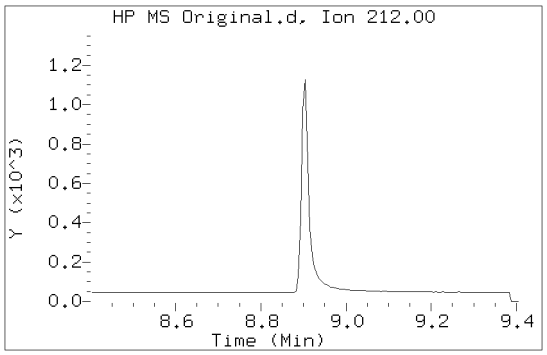
AFTER

MASS
122
AREA
1896
HEIGHT
1474
29-Jun-2023
14:27
ALSHS
Ser



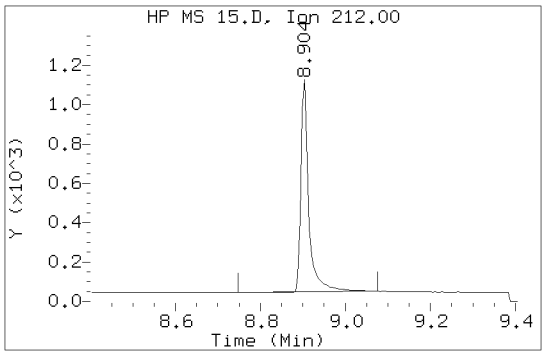
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
212
AREA
1371
HEIGHT
1079
29-Jun-2023
14:27
ALSHS
Ser



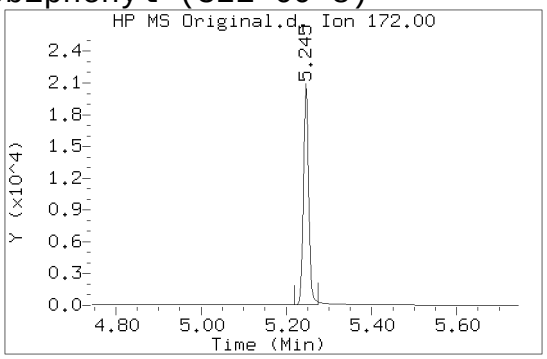
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Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

2-Fluorobiphenyl (321-60-8)

Reason Code:

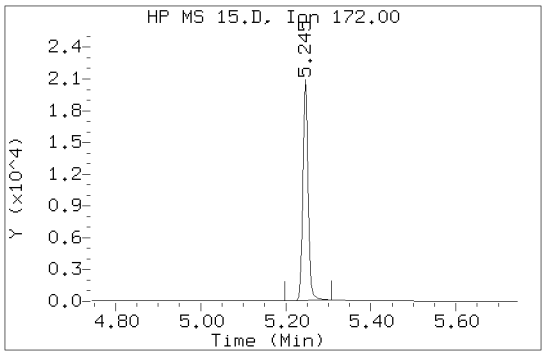
BEFORE

MASS
172
AREA
18197
HEIGHT
20880
16-Jun-2023
16:11
ALSHS
Server



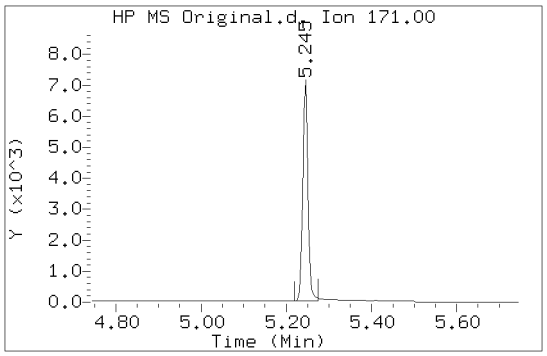
AFTER

MASS
172
AREA
18173
HEIGHT
20843
29-Jun-2023
14:27
ALSHS
Ser



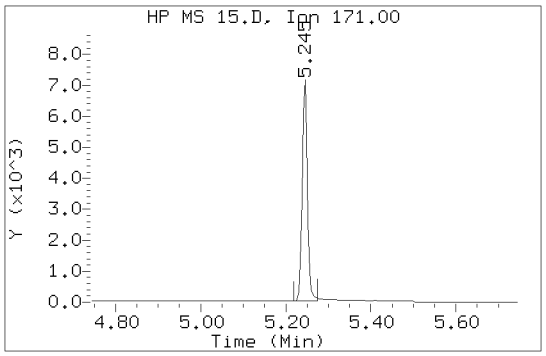
BEFORE

MASS
171
AREA
6120
HEIGHT
7129
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
171
AREA
6120
HEIGHT
7129
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Lab Smp Id: 14DXICV-0.08 Client Smp ID: 14DXICV-0.08
Inj Date : 16-JUN-2023 16:22
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 16 QC Sample: METHSPIKE
Dil Factor: 1.00000
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	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	3.128	3.122	(1.000)	5295	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	17725	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	3797	0.07086	0.07086(M)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10379	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.248	5.245	(0.892)	8542	0.08036	0.08036(M)
* 126 Phenanthrene-d10	188	7.328	7.322	(1.000)	20505	0.10000	(M)
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	12662	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.904	(0.889)	7743	0.08379	0.08379(M)
* 198 Perylene-d12	264	11.945	11.940	(1.000)	10635	0.10000	(M)
1 1,4-Dioxane	58	1.464	1.460	(0.468)	1261	0.07070	0.07070(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01250645

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D

Date : 16-JUN-2023 16:22

Client ID: 14DXICV-0.08

Instrument: SV6.i

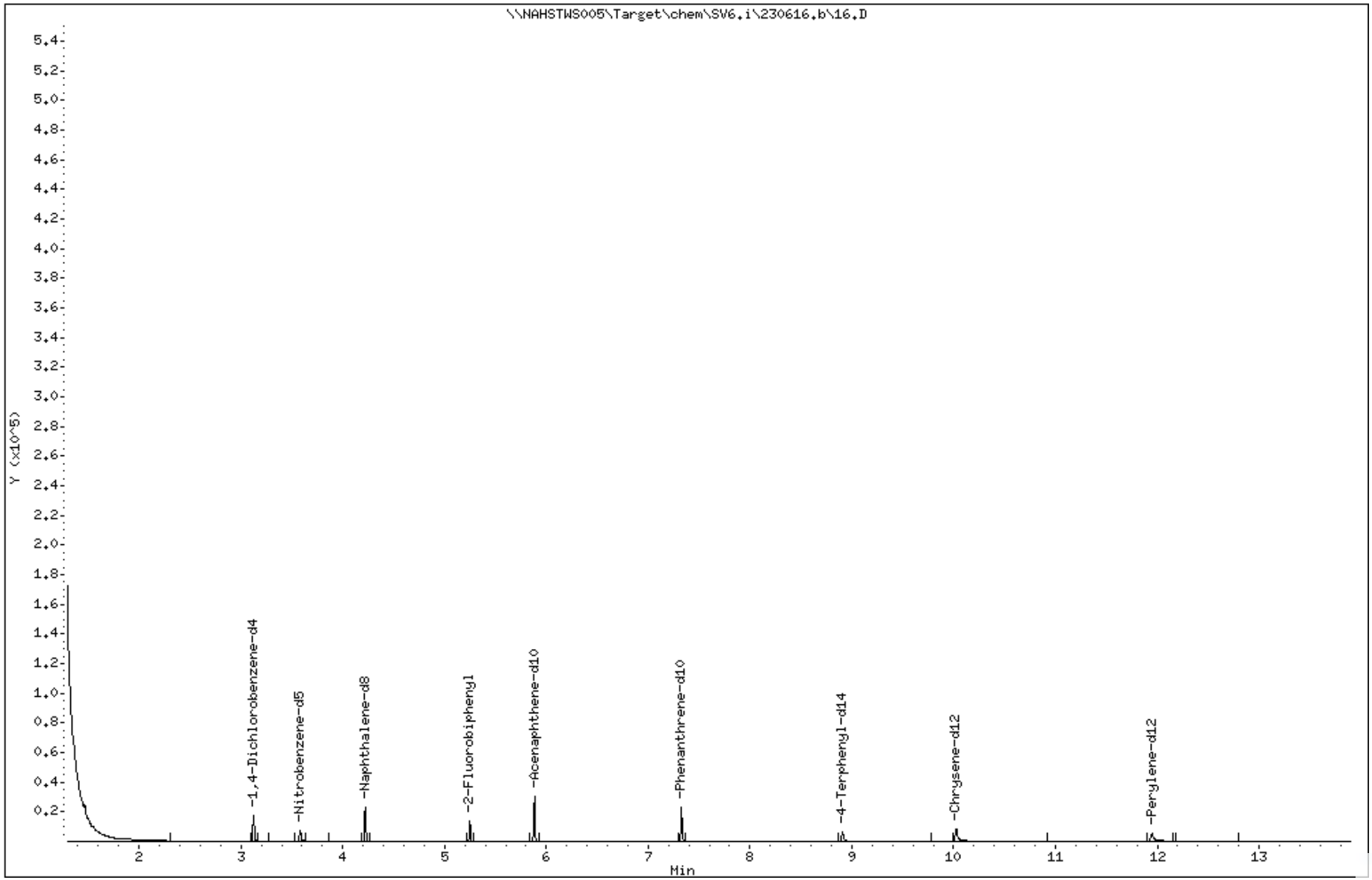
Sample Info: 14DXICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



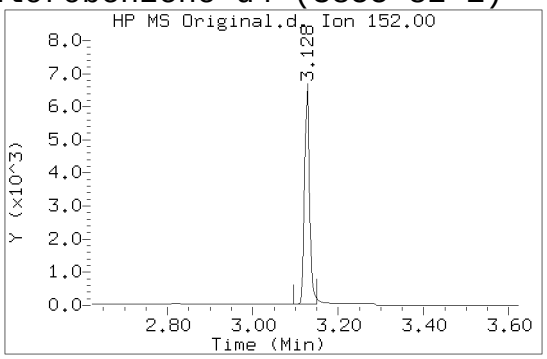
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

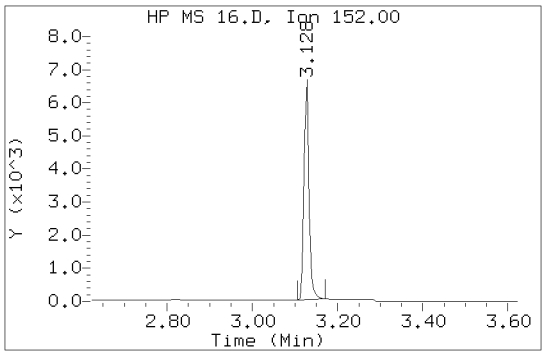
BEFORE

MASS
152
AREA
5292
HEIGHT
6650
16-Jun-2023
16:37
ALSHS
Server



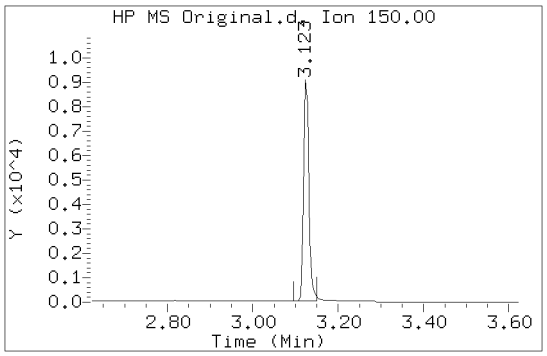
AFTER

MASS
152
AREA
5295
HEIGHT
6641
29-Jun-2023
14:27
ALSHS
Ser



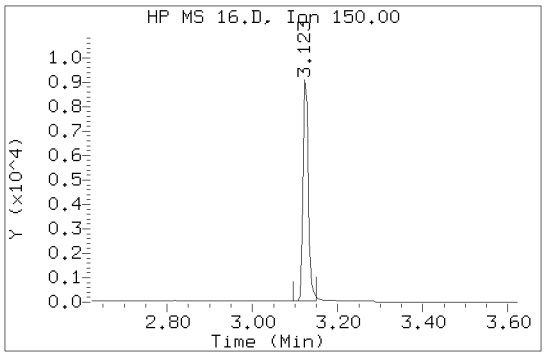
BEFORE

MASS
150
AREA
7668
HEIGHT
9050
16-Jun-2023
16:37
ALSHS
Server



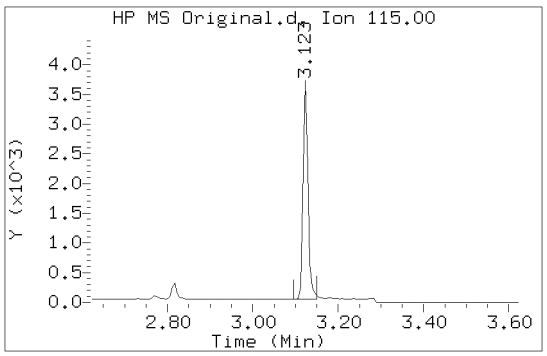
AFTER

MASS
150
AREA
7668
HEIGHT
9050
29-Jun-2023
14:27
ALSHS
Ser



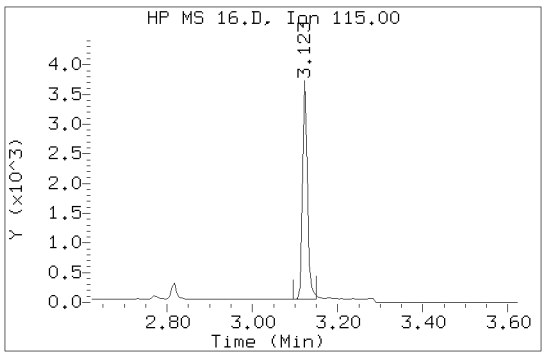
BEFORE

MASS
115
AREA
2824
HEIGHT
3676
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
115
AREA
2824
HEIGHT
3676
29-Jun-2023
14:27
ALSHS
Ser

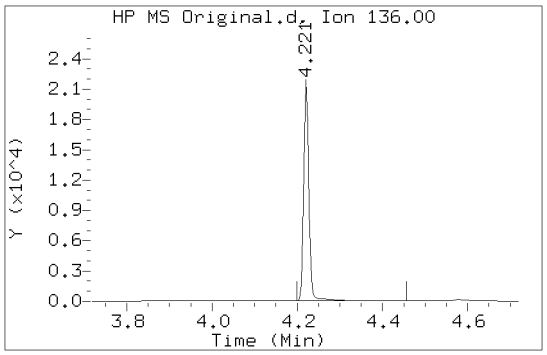


Naphthalene-d8 (1146-65-2)

Reason Code:

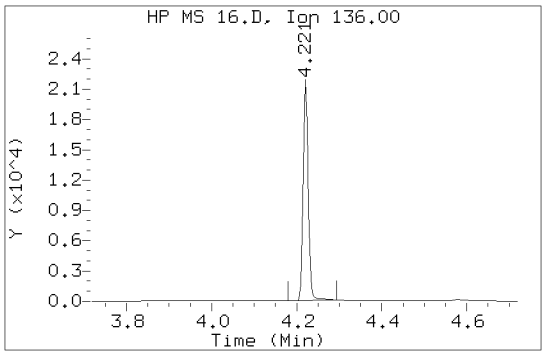
BEFORE

MASS
136
AREA
18147
HEIGHT
21880
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
136
AREA
17725
HEIGHT
21858
29-Jun-2023
14:27
ALSHS
Ser



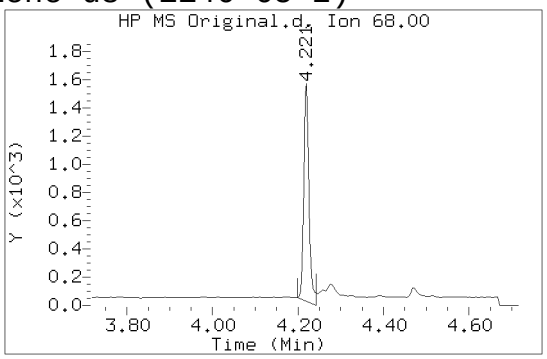
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

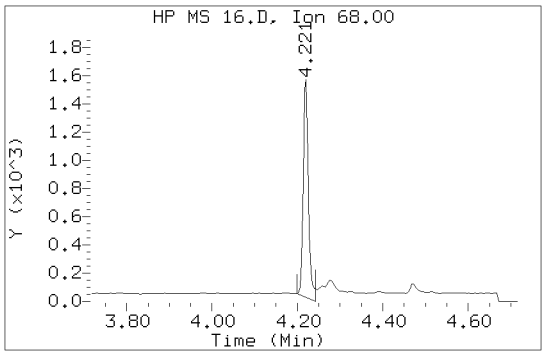
BEFORE

MASS
68
AREA
1351
HEIGHT
1544
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
68
AREA
1351
HEIGHT
1544
29-Jun-2023
14:27
ALSHS
Ser

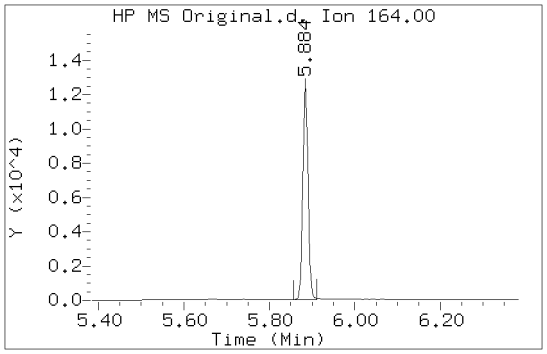


Acenaphthene-d10 (15067-26-2)

Reason Code:

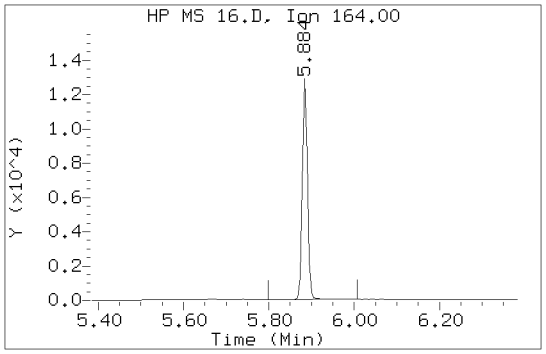
BEFORE

MASS
164
AREA
10322
HEIGHT
12879
16-Jun-2023
16:37
ALSHS
Server



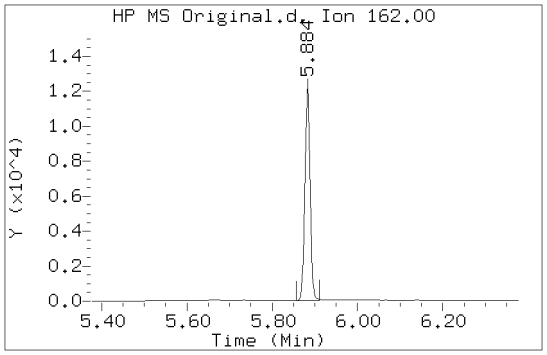
AFTER

MASS
164
AREA
10379
HEIGHT
12877
29-Jun-2023
14:27
ALSHS
Ser



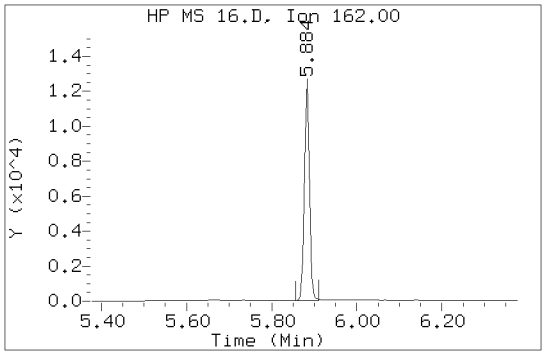
BEFORE

MASS
162
AREA
10387
HEIGHT
12657
16-Jun-2023
16:37
ALSHS
Server



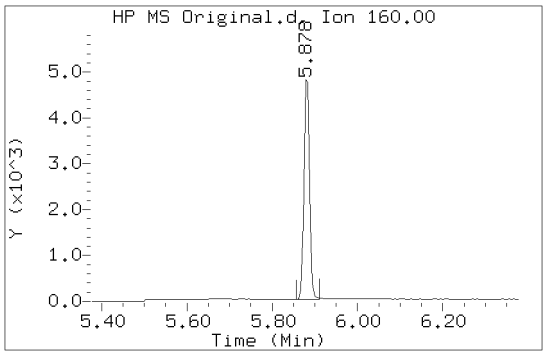
AFTER

MASS
162
AREA
10387
HEIGHT
12657
29-Jun-2023
14:27
ALSHS
Ser



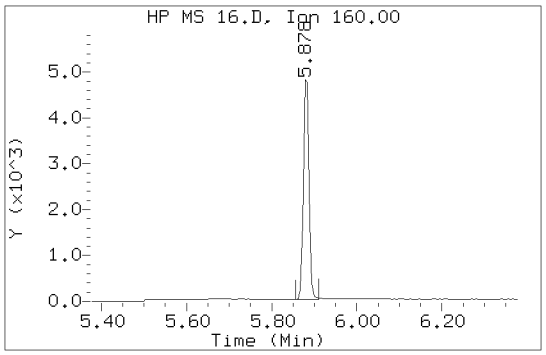
BEFORE

MASS
160
AREA
4356
HEIGHT
4785
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
160
AREA
4356
HEIGHT
4785
29-Jun-2023
14:27
ALSHS
Ser



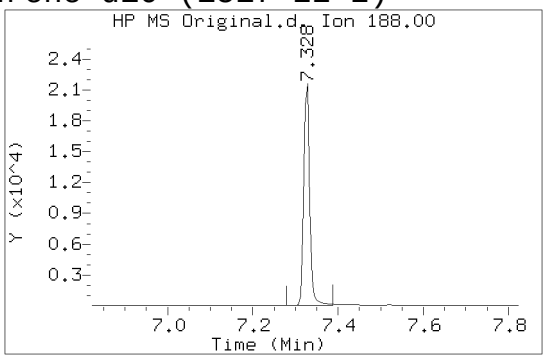
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

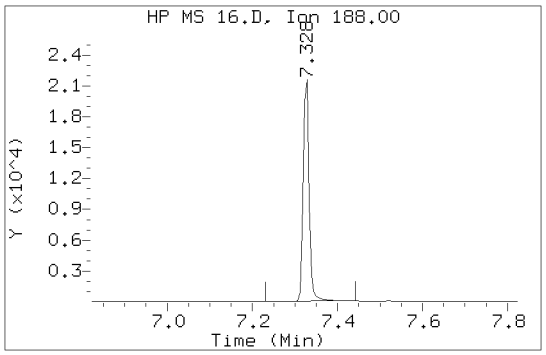
BEFORE

MASS
188
AREA
20554
HEIGHT
21579
16-Jun-2023
16:37
ALSHS
Server



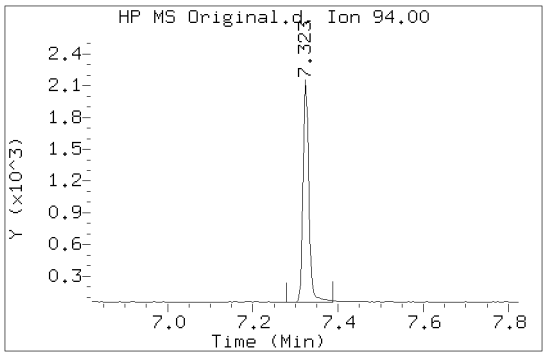
AFTER

MASS
188
AREA
20505
HEIGHT
21562
29-Jun-2023
14:27
ALSHS
Ser



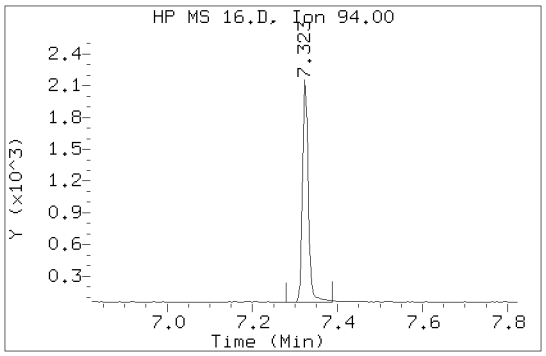
BEFORE

MASS
94
AREA
1950
HEIGHT
2099
16-Jun-2023
16:37
ALSHS
Server



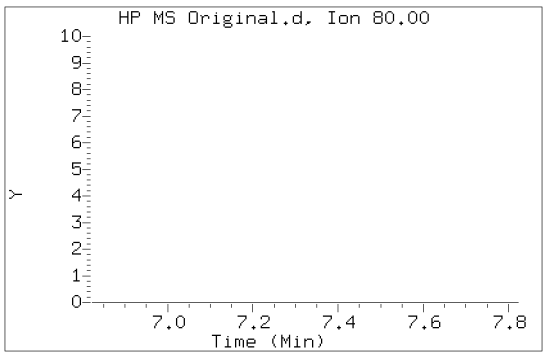
AFTER

MASS
94
AREA
1950
HEIGHT
2099
29-Jun-2023
14:27
ALSHS
Ser



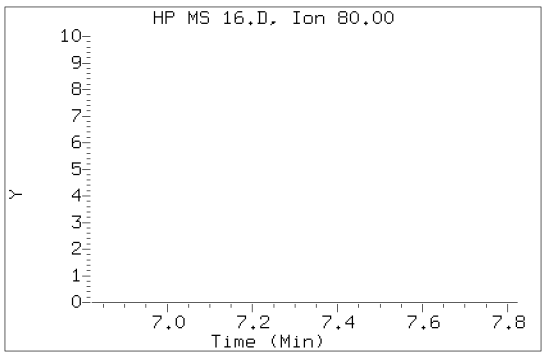
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser

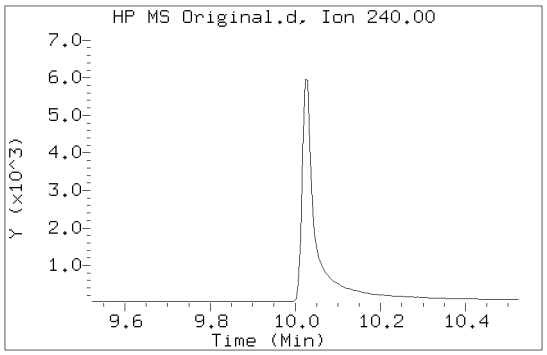


Chrysene-d12 (1719-03-5)

Reason Code:

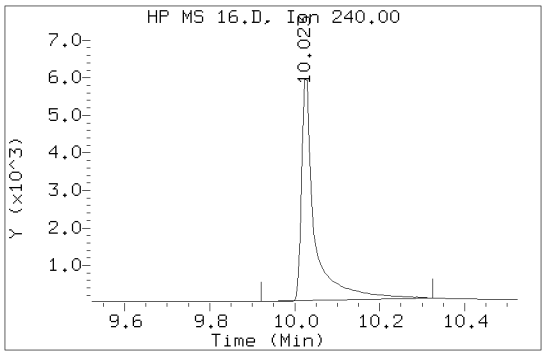
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
240
AREA
12662
HEIGHT
5881
29-Jun-2023
14:27
ALSHS
Ser



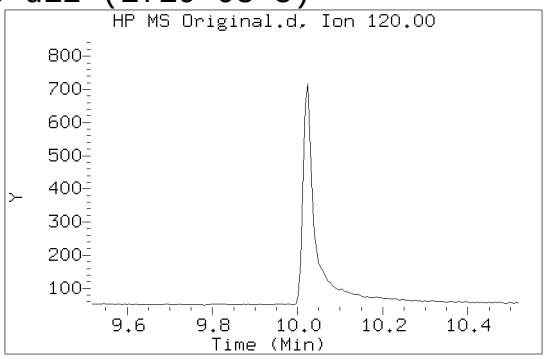
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

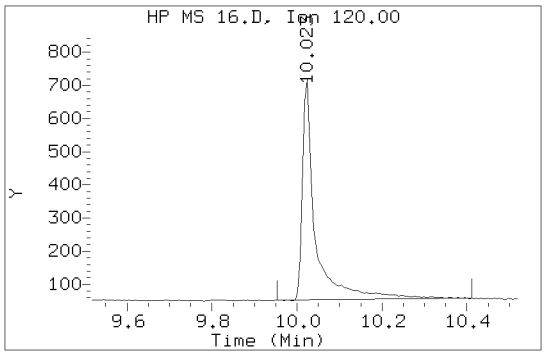
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



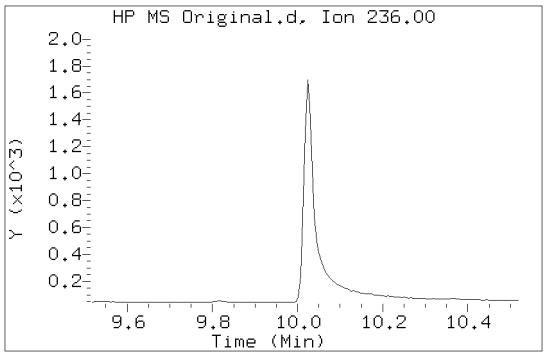
AFTER

MASS
120
AREA
1417
HEIGHT
664
29-Jun-2023
14:27
ALSHS
Ser



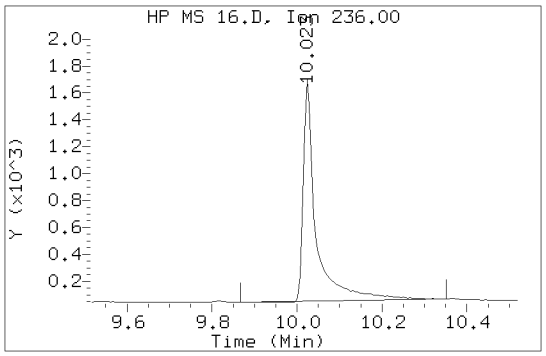
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
236
AREA
3367
HEIGHT
1641
29-Jun-2023
14:27
ALSHS
Ser

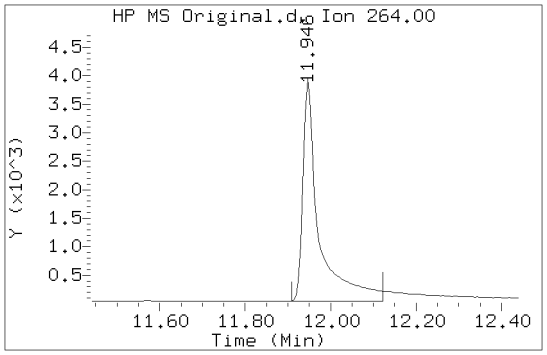


Perylene-d12 (1520-96-3)

Reason Code:

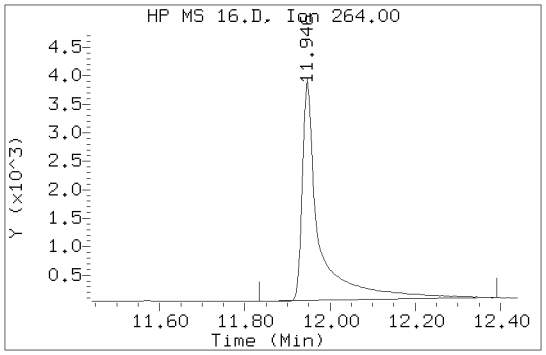
BEFORE

MASS
264
AREA
10066
HEIGHT
3896
16-Jun-2023
16:37
ALSHS
Server



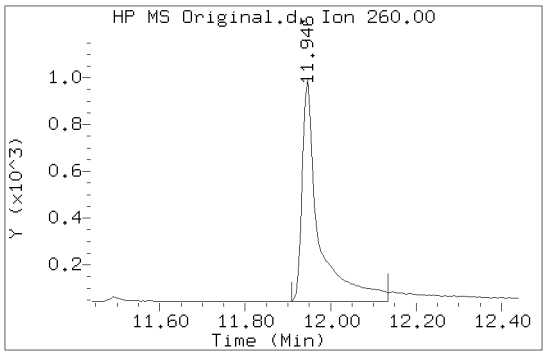
AFTER

MASS
264
AREA
10635
HEIGHT
3885
29-Jun-2023
14:27
ALSHS
Ser



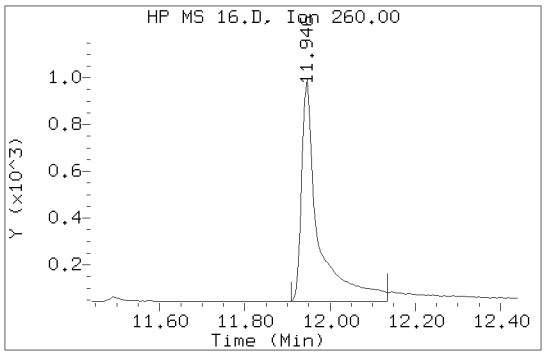
BEFORE

MASS
260
AREA
2544
HEIGHT
947
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
260
AREA
2544
HEIGHT
947
29-Jun-2023
14:27
ALSHS
Ser



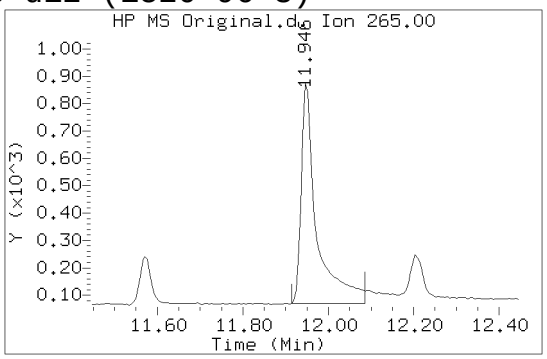
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Perylene-d12 (1520-96-3)

Reason Code:

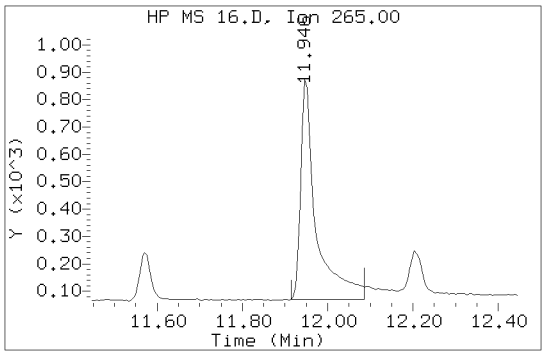
BEFORE

MASS
265
AREA
2015
HEIGHT
803
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
265
AREA
2015
HEIGHT
803
29-Jun-2023
14:27
ALSHS
Ser

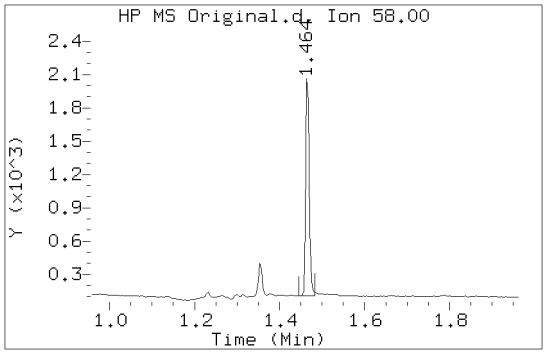


1,4-Dioxane ()

Reason Code:

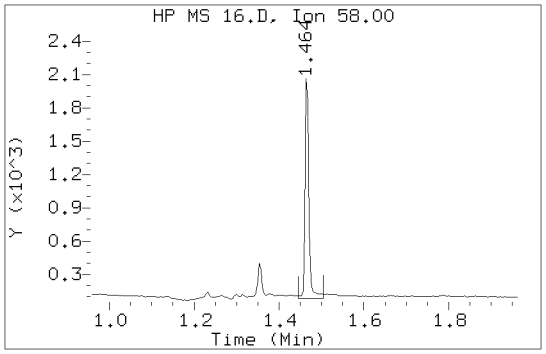
BEFORE

MASS
58
AREA
1149
HEIGHT
1956
16-Jun-2023
16:37
ALSHS
Server



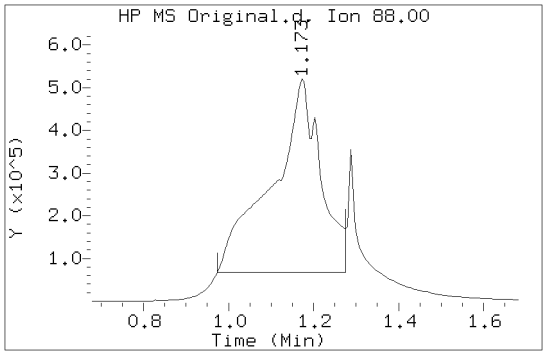
AFTER

MASS
58
AREA
1261
HEIGHT
1979
29-Jun-2023
14:27
ALSHS
Ser



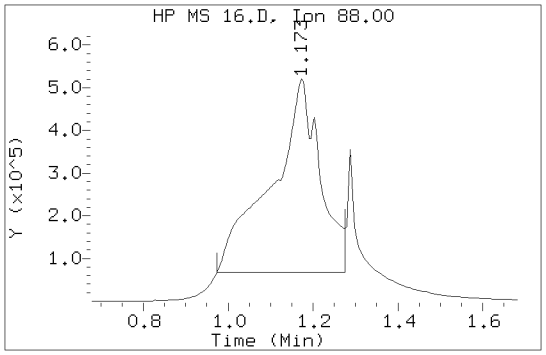
BEFORE

MASS
88
AREA
3609729
HEIGHT
452352
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
88
AREA
3609729
HEIGHT
452352
29-Jun-2023
14:27
ALSHS
Ser

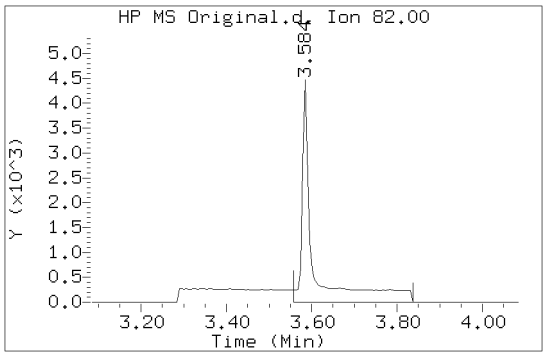


Nitrobenzene-d5 (4165-60-0)

Reason Code:

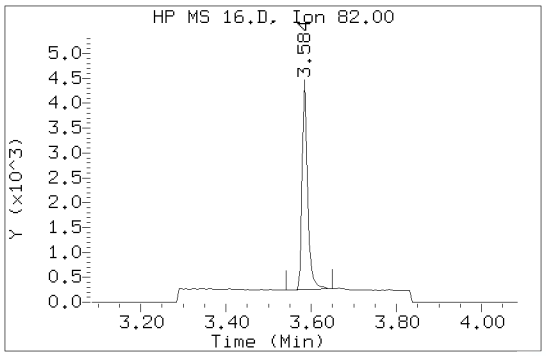
BEFORE

MASS
82
AREA
8001
HEIGHT
4469
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
82
AREA
3797
HEIGHT
4214
29-Jun-2023
14:27
ALSHS
Ser

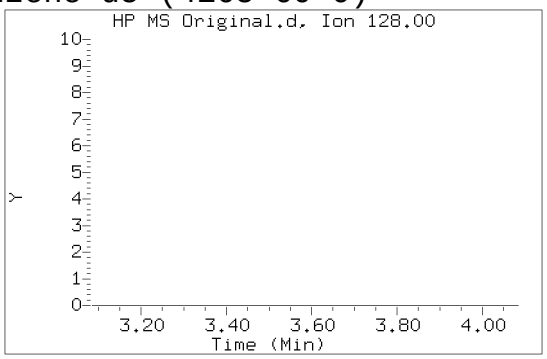


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

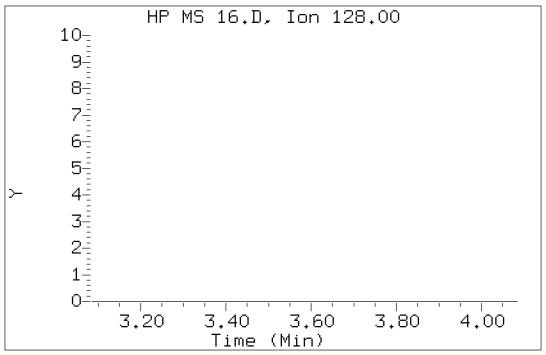
Nitrobenzene-d5 (4165-60-0)

Reason Code:

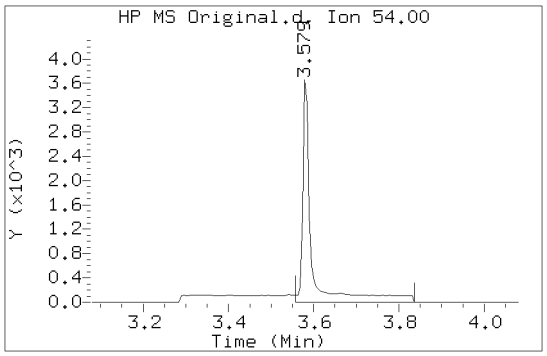
BEFORE
MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



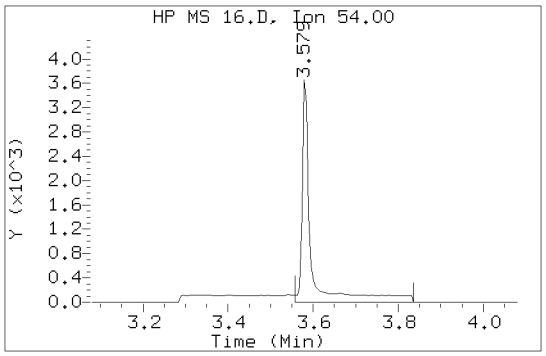
AFTER
MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
54
AREA
5382
HEIGHT
3655
16-Jun-2023
16:37
ALSHS
Server



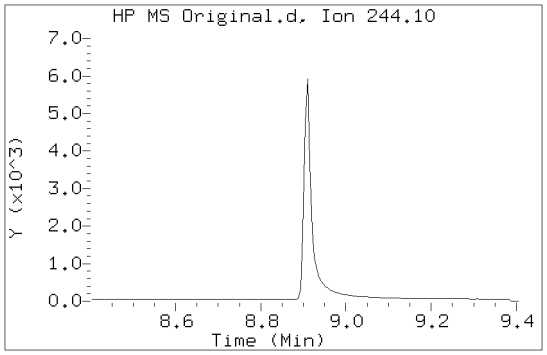
AFTER
MASS
54
AREA
5382
HEIGHT
3655
29-Jun-2023
14:27
ALSHS
Ser



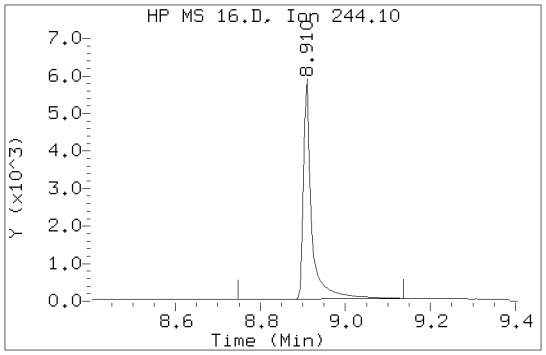
4-Terphenyl-d14 (1718-51-0)

Reason Code:

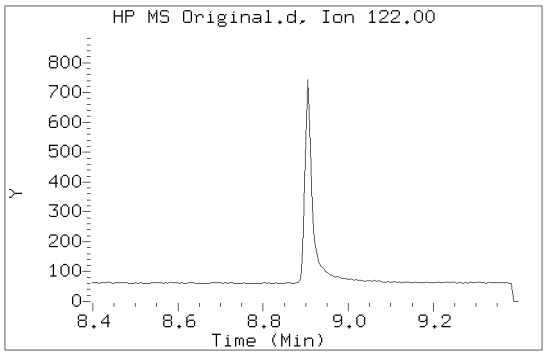
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



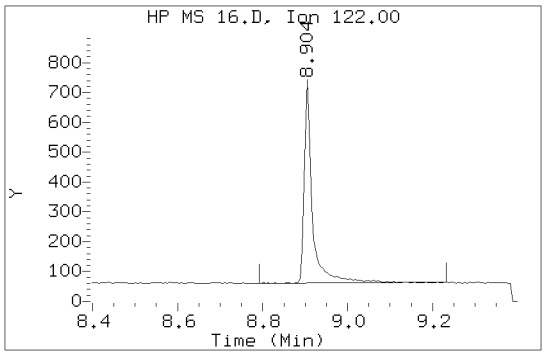
AFTER
MASS
244.1
AREA
7743
HEIGHT
5864
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER
MASS
122
AREA
889
HEIGHT
681
29-Jun-2023
14:27
ALSHS
Ser



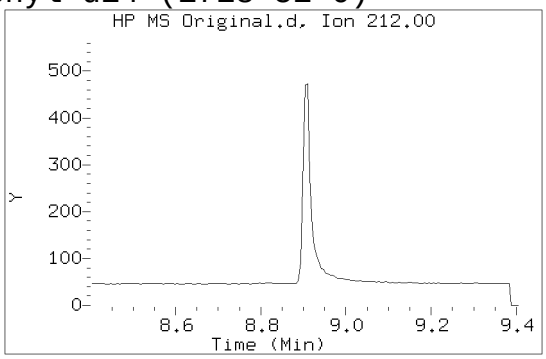
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

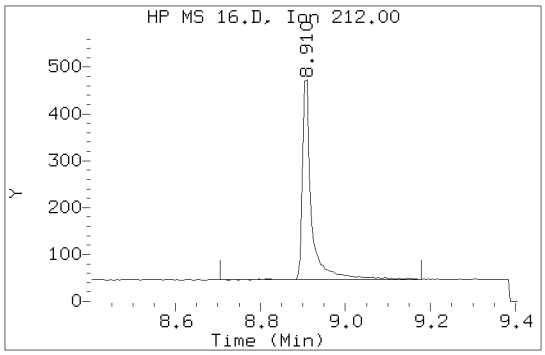
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
212
AREA
632
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser

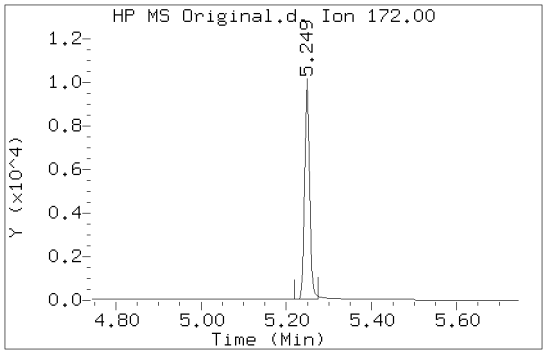


2-Fluorobiphenyl (321-60-8)

Reason Code:

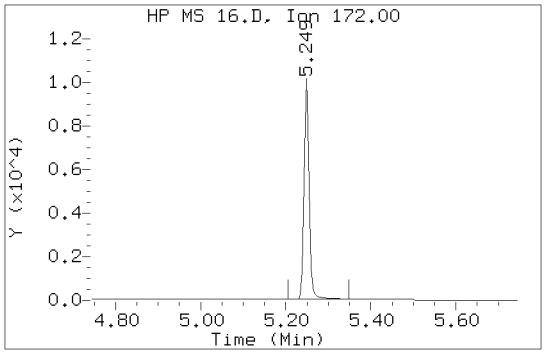
BEFORE

MASS
172
AREA
8416
HEIGHT
10125
16-Jun-2023
16:37
ALSHS
Server



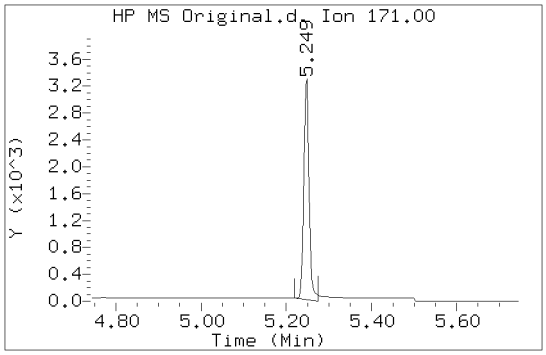
AFTER

MASS
172
AREA
8542
HEIGHT
10120
29-Jun-2023
14:27
ALSHS
Ser



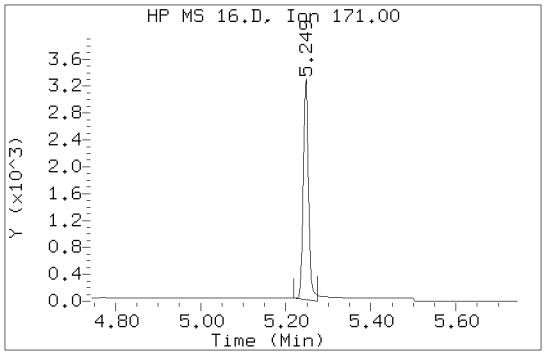
BEFORE

MASS
171
AREA
2911
HEIGHT
3286
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
171
AREA
2911
HEIGHT
3286
29-Jun-2023
14:27
ALSHS
Ser



01250653

right solutions.
right partner.

Raw Data SV 6 444955

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081040

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

08/29/2023

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\230828.b\01.D Page 1
Report Date: 28-Aug-2023 10:59

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230828.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 28-AUG-2023 10:46
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230828.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7053

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		
5.357	5.726	-0.369	198	251808			0.00- 100.00	100.00
5.357	6.357	-1.000	51	123688			10.00- 80.00	49.12
5.357	6.357	-1.000	68	1473			0.00- 2.00	1.47
5.357	6.357	-1.000	69	100504			0.00- 0.00	39.91
5.357	6.357	-1.000	70	487			0.00- 2.00	0.48
5.357	6.357	-1.000	127	127216			10.00- 80.00	50.52
5.357	6.357	-1.000	197	1362			0.00- 2.00	0.54
5.357	6.357	-1.000	199	17090			5.00- 9.00	6.79
5.357	6.357	-1.000	275	62888			10.00- 60.00	24.97
5.357	6.357	-1.000	365	8561			1.00- 100.00	3.40
5.357	6.357	-1.000	441	32116			0.01- 99.99	75.79
5.357	6.357	-1.000	442	218884			50.00- 150.00	86.92
5.357	6.357	-1.000	443	42376			15.00- 24.00	19.36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	49.12
68	Less than 2.00% of mass 69	0.58 (1.47)
69	Mass 69 relative abundance	39.91
70	Less than 2.00% of mass 69	0.19 (0.48)
127	10.00 - 80.00% of mass 198	50.52
197	Less than 2.00% of mass 198	0.54
199	5.00 - 9.00% of mass 198	6.79
275	10.00 - 60.00% of mass 198	24.97
365	1.00 - 100.00% of mass 198	3.40
441	Present, but less than mass 443	12.75
442	50.00 - 150.00% of mass 198	86.92
443	15.00 - 24.00% of mass 442	16.83 (19.36)

Data File: 01.D
Spectrum: Average Spectrum: 5.352 to 5.358 min. (SUB)
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	121	125.00	1655	199.00	17088	284.00	458
37.00	372	126.00	559	200.00	1376	285.00	1026
38.00	1464	127.00	127216	201.00	1002	286.00	103
39.00	7122	128.00	9402	203.00	1779	289.00	119
40.00	287	129.00	48032	204.00	9852	290.00	143
41.00	211	130.00	4295	205.00	16167	292.00	245
45.00	246	131.00	788	206.00	66408	293.00	1135
49.00	651	132.00	355	207.00	8417	294.00	289
50.00	29608	133.00	90	208.00	2176	295.00	340
51.00	123688	134.00	1280	209.00	679	296.00	19080
52.00	6135	135.00	3726	210.00	1031	297.00	2607
53.00	252	136.00	1548	211.00	2781	298.00	98
55.00	436	137.00	1962	212.00	292	301.00	251
56.00	2931	138.00	443	213.00	181	302.00	297
57.00	8117	139.00	203	215.00	711	303.00	2131
58.00	392	140.00	499	216.00	1424	304.00	579
61.00	1275	141.00	5593	217.00	18840	308.00	224
62.00	1520	142.00	2053	218.00	2498	309.00	98
63.00	4600	143.00	1416	219.00	140	310.00	258
64.00	634	144.00	420	221.00	12104	313.00	81
65.00	2418	145.00	290	222.00	2533	314.00	789
66.00	75	146.00	1043	223.00	4399	315.00	1967
68.00	1473	147.00	3041	224.00	39584	316.00	1154
69.00	100504	148.00	8428	225.00	10073	317.00	252
70.00	487	149.00	1550	226.00	1021	321.00	588
73.00	752	150.00	366	227.00	16109	322.00	253
74.00	10941	151.00	730	228.00	2190	323.00	6035
75.00	16912	152.00	316	229.00	3583	324.00	1154
76.00	7216	153.00	1977	230.00	484	326.00	85
77.00	139328	154.00	1326	231.00	1318	327.00	1191
78.00	9411	155.00	3617	232.00	230	328.00	597
79.00	6941	156.00	5343	233.00	337	332.00	460
80.00	5474	157.00	972	234.00	898	333.00	524
81.00	8356	158.00	926	235.00	1296	334.00	3772
82.00	2032	159.00	867	236.00	930	335.00	940
83.00	2084	160.00	1865	237.00	1402	336.00	97
84.00	157	161.00	2786	238.00	212	341.00	717
85.00	1584	162.00	839	239.00	610	342.00	131
86.00	2104	163.00	268	240.00	475	346.00	1306
87.00	989	164.00	324	241.00	878	347.00	189
88.00	425	165.00	2012	242.00	2021	352.00	1715
89.00	210	166.00	1899	243.00	2153	353.00	1176
91.00	1565	167.00	15805	244.00	29904	354.00	1638
92.00	1769	168.00	7437	245.00	3871	355.00	300
93.00	13484	169.00	1231	246.00	5658	359.00	96

94.00	852	170.00	376	247.00	1081	365.00	8561
95.00	267	171.00	530	248.00	304	366.00	1285
96.00	617	172.00	1037	249.00	1046	370.00	112
97.00	223	173.00	1365	250.00	238	371.00	470
98.00	10623	174.00	2730	251.00	189	372.00	3112
99.00	8076	175.00	5412	252.00	278	373.00	769
100.00	705	176.00	1200	253.00	641	383.00	897
101.00	4933	177.00	2115	254.00	1055	384.00	242
102.00	212	178.00	743	255.00	146368	390.00	392
103.00	1154	179.00	9493	256.00	21368	391.00	264
104.00	2524	180.00	6790	257.00	1742	392.00	146
105.00	2711	181.00	3279	258.00	8433	401.00	107
106.00	913	182.00	479	259.00	1347	402.00	1179
107.00	41344	183.00	195	260.00	227	403.00	1603
108.00	6339	184.00	708	261.00	102	404.00	657
109.00	948	185.00	4526	264.00	209	405.00	76
110.00	63568	186.00	37128	265.00	3413	421.00	1467
111.00	10384	187.00	10362	266.00	536	422.00	1341
112.00	1359	188.00	1084	270.00	205	423.00	10633
113.00	431	189.00	1951	271.00	297	424.00	2315
116.00	1749	190.00	275	272.00	398	425.00	292
117.00	37656	191.00	920	273.00	4671	441.00	32112
118.00	2615	192.00	3116	274.00	11571	442.00	218880
119.00	285	193.00	3490	275.00	62888	443.00	42376
120.00	518	194.00	760	276.00	8394	444.00	3744
121.00	158	195.00	470	277.00	5855	445.00	244
122.00	1979	196.00	6539	278.00	957		
123.00	3587	197.00	1362	279.00	198		
124.00	1731	198.00	251776	283.00	578		

Data File: \\nahstws005\Target\chem\SV6.i\230828.b\01.D

Date : 28-AUG-2023 10:46

Client ID: DFTPP

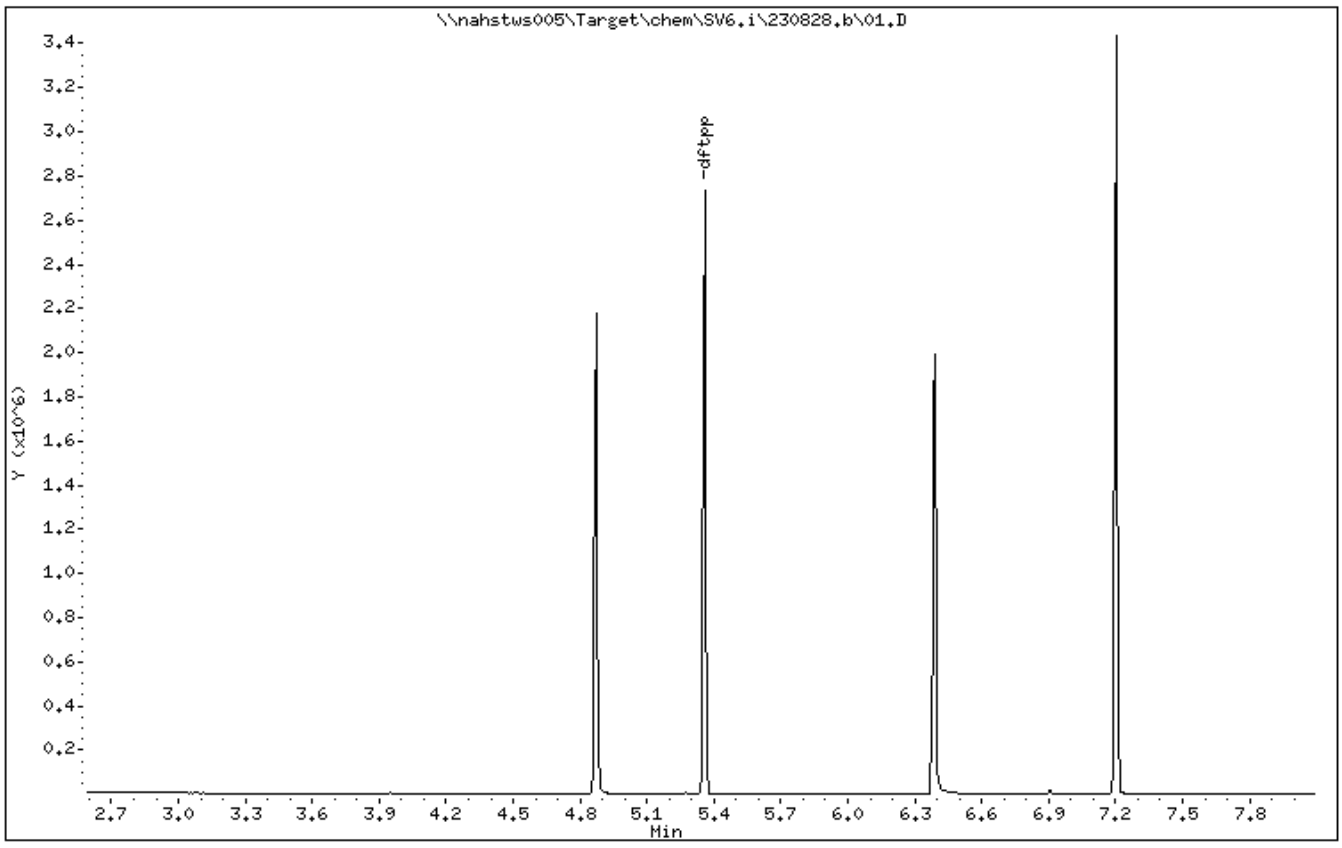
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\nahstws005\Target\chem\SV6.i\230828.b\01.D

Date : 28-AUG-2023 10:46

Client ID: DFTPP

Instrument: SV6.i

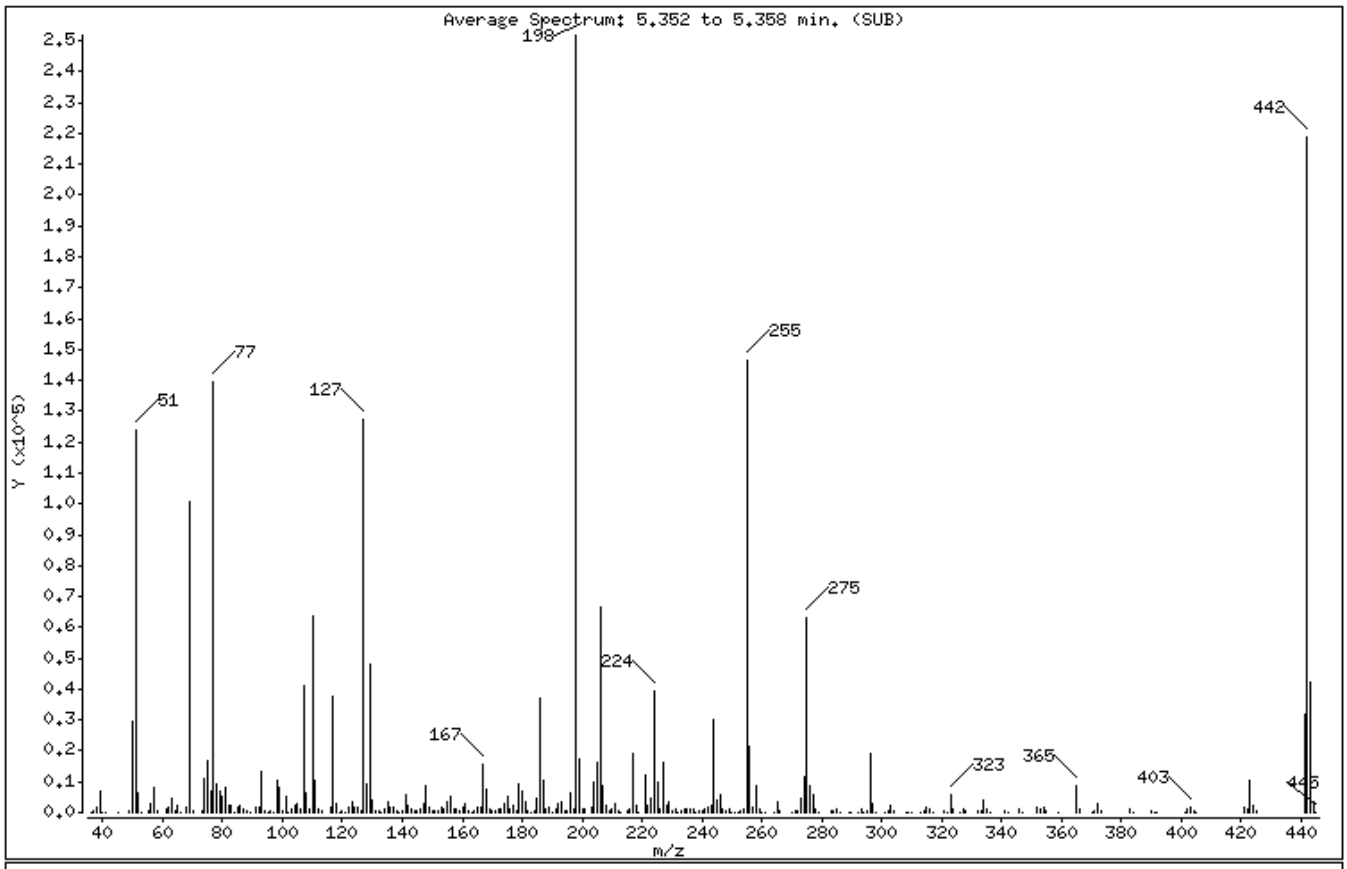
Sample Info: DFTPP;DFTPP;3;;DFTPP

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	49.12
68	Less than 2.00% of mass 69	0.58 (1.47)
69	Mass 69 relative abundance	39.91
70	Less than 2.00% of mass 69	0.19 (0.48)
127	10.00 - 80.00% of mass 198	50.52
197	Less than 2.00% of mass 198	0.54
199	5.00 - 9.00% of mass 198	6.79
275	10.00 - 60.00% of mass 198	24.97
365	1.00 - 100.00% of mass 198	3.40
441	Present, but less than mass 443	12.75
442	50.00 - 150.00% of mass 198	86.92
443	15.00 - 24.00% of mass 442	16.83 (19.36)

Data File: \\nahstws005\Target\chem\SV6.i\230828.b\01.D

Date : 28-AUG-2023 10:46

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: 5.352 to 5.358 min. (SUB)

Location of Maximum: 198.00

Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	121	125.00	1655	199.00	17088	284.00	458
37.00	372	126.00	559	200.00	1376	285.00	1026
38.00	1464	127.00	127216	201.00	1002	286.00	103
39.00	7122	128.00	9402	203.00	1779	289.00	119
40.00	287	129.00	48032	204.00	9852	290.00	143
41.00	211	130.00	4295	205.00	16167	292.00	245
45.00	246	131.00	788	206.00	66408	293.00	1135
49.00	651	132.00	355	207.00	8417	294.00	289
50.00	29608	133.00	90	208.00	2176	295.00	340
51.00	123688	134.00	1280	209.00	679	296.00	19080
52.00	6135	135.00	3726	210.00	1031	297.00	2607
53.00	252	136.00	1548	211.00	2781	298.00	98
55.00	436	137.00	1962	212.00	292	301.00	251
56.00	2931	138.00	443	213.00	181	302.00	297
57.00	8117	139.00	203	215.00	711	303.00	2131
58.00	392	140.00	499	216.00	1424	304.00	579
61.00	1275	141.00	5593	217.00	18840	308.00	224
62.00	1520	142.00	2053	218.00	2498	309.00	98
63.00	4600	143.00	1416	219.00	140	310.00	258
64.00	634	144.00	420	221.00	12104	313.00	81
65.00	2418	145.00	290	222.00	2533	314.00	789
66.00	75	146.00	1043	223.00	4399	315.00	1967
68.00	1473	147.00	3041	224.00	39584	316.00	1154
69.00	100504	148.00	8428	225.00	10073	317.00	252
70.00	487	149.00	1550	226.00	1021	321.00	588
73.00	752	150.00	366	227.00	16109	322.00	253
74.00	10941	151.00	730	228.00	2190	323.00	6035
75.00	16912	152.00	316	229.00	3583	324.00	1154
76.00	7216	153.00	1977	230.00	484	326.00	85
77.00	139328	154.00	1326	231.00	1318	327.00	1191
78.00	9411	155.00	3617	232.00	230	328.00	597
79.00	6941	156.00	5343	233.00	337	332.00	460
80.00	5474	157.00	972	234.00	898	333.00	524
81.00	8356	158.00	926	235.00	1296	334.00	3772
82.00	2032	159.00	867	236.00	930	335.00	940

Data File: \\nahstws005\Target\chem\SV6.i\230828.b\01.D

Date : 28-AUG-2023 10:46

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: 5.352 to 5.358 min. (SUB)
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	2084	160.00	1865	237.00	1402	336.00	97
84.00	157	161.00	2786	238.00	212	341.00	717
85.00	1584	162.00	839	239.00	610	342.00	131
86.00	2104	163.00	268	240.00	475	346.00	1306
87.00	989	164.00	324	241.00	878	347.00	189
88.00	425	165.00	2012	242.00	2021	352.00	1715
89.00	210	166.00	1899	243.00	2153	353.00	1176
91.00	1565	167.00	15805	244.00	29904	354.00	1638
92.00	1769	168.00	7437	245.00	3871	355.00	300
93.00	13484	169.00	1231	246.00	5658	359.00	96
94.00	852	170.00	376	247.00	1081	365.00	8561
95.00	267	171.00	530	248.00	304	366.00	1285
96.00	617	172.00	1037	249.00	1046	370.00	112
97.00	223	173.00	1365	250.00	238	371.00	470
98.00	10623	174.00	2730	251.00	189	372.00	3112
99.00	8076	175.00	5412	252.00	278	373.00	769
100.00	705	176.00	1200	253.00	641	383.00	897
101.00	4933	177.00	2115	254.00	1055	384.00	242
102.00	212	178.00	743	255.00	146368	390.00	392
103.00	1154	179.00	9493	256.00	21368	391.00	264
104.00	2524	180.00	6790	257.00	1742	392.00	146
105.00	2711	181.00	3279	258.00	8433	401.00	107
106.00	913	182.00	479	259.00	1347	402.00	1179
107.00	41344	183.00	195	260.00	227	403.00	1603
108.00	6339	184.00	708	261.00	102	404.00	657
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110.00	63568	186.00	37128	265.00	3413	421.00	1467
111.00	10384	187.00	10362	266.00	536	422.00	1341
112.00	1359	188.00	1084	270.00	205	423.00	10633
113.00	431	189.00	1951	271.00	297	424.00	2315
116.00	1749	190.00	275	272.00	398	425.00	292
117.00	37656	191.00	920	273.00	4671	441.00	32112
118.00	2615	192.00	3116	274.00	11571	442.00	218880
119.00	285	193.00	3490	275.00	62888	443.00	42376
120.00	518	194.00	760	276.00	8394	444.00	3744

Data File: \\nahstws005\Target\chem\SV6.i\230828.b\01.D

Date : 28-AUG-2023 10:46

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: 5.352 to 5.358 min. (SUB)
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	158	195.00	470	277.00	5855	445.00	244
122.00	1979	196.00	6539	278.00	957		
123.00	3587	197.00	1362	279.00	198		
124.00	1731	198.00	251776	283.00	578		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\nahstws005\Target\chem\SV6.i\230828.b\03.D
Lab Smp Id: 1 4DX-0.08
Inj Date : 28-AUG-2023 11:34
Operator : LG Inst ID: SV6.i
Smp Info : 1 4DX-0.08;;2
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 28-Aug-2023 11:53 jjuarez Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7053

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	3.671	3.671	(1.000)	5673	0.10000	(aQM)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	23582	0.10000	
$ 33 Nitrobenzene-d5	82	4.137	4.137	(0.864)	5345	0.08000	0.07460(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	12257	0.10000	
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	9854	0.08000	0.07862
* 126 Phenanthrene-d10	188	7.937	7.937	(1.000)	22732	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	13198	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.545	9.545	(0.882)	7270	0.08000	0.07466(M)
* 198 Perylene-d12	264	12.958	12.958	(1.000)	9326	0.10000	
1 1,4-Dioxane	58	1.912	1.912	(0.521)	1420	0.08000	0.07377(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.

01250664

Data File: \\nahstws005\Target\chem\SV6.i\230828.b\03.D

Date : 28-AUG-2023 11:34

Client ID:

Instrument: SV6.i

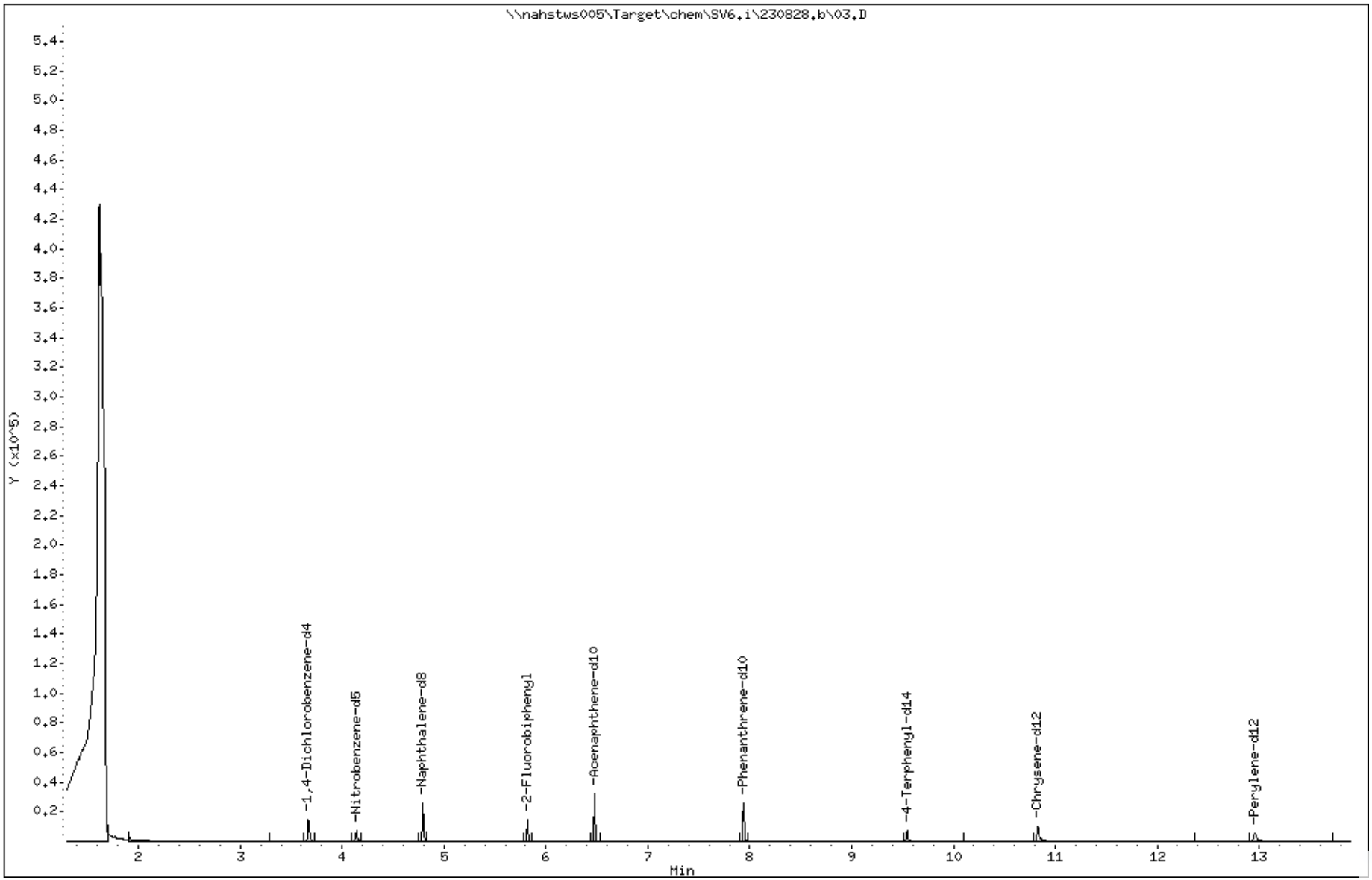
Sample Info: 1 4DX-0.08;;2

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



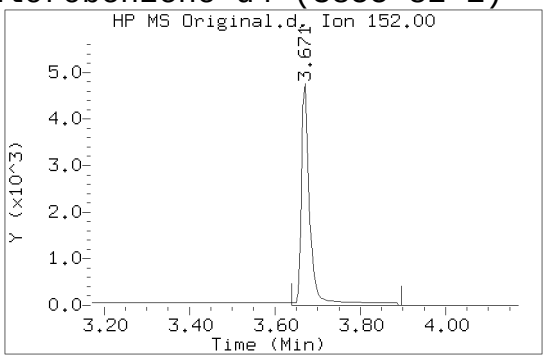
Data File : \\nahstws005\Target\chem\SV6.i\230828.b\03.D
Inj Date : 28-AUG-2023 11:34
InstruID : SV6.i
LabSampID : 1 4DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

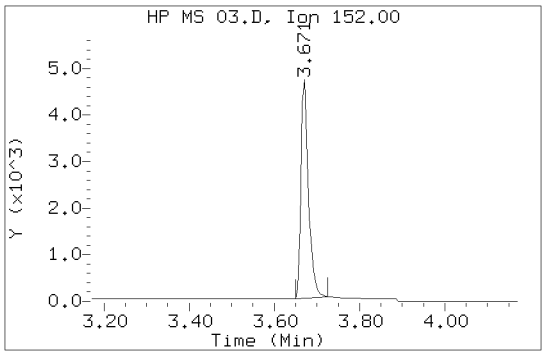
BEFORE

MASS
152
AREA
6691
HEIGHT
4759
28-Aug-2023
11:49
ALSHS
Server



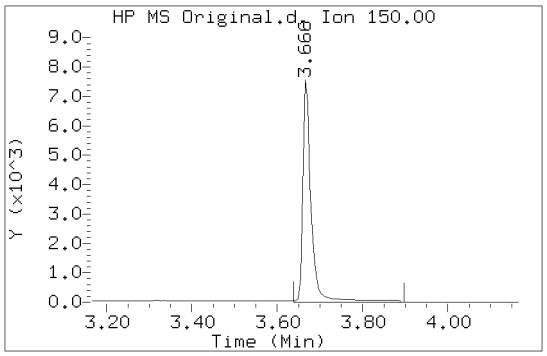
AFTER

MASS
152
AREA
5673
HEIGHT
4694
28-Aug-2023
11:56
ALSHS
S



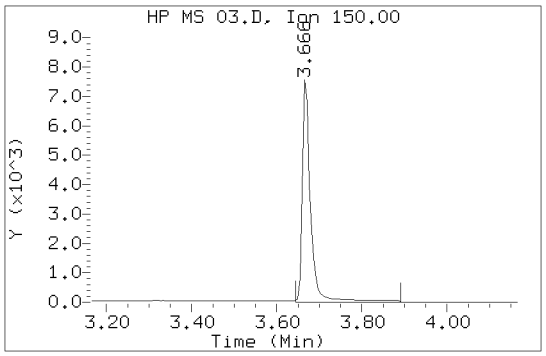
BEFORE

MASS
150
AREA
10190
HEIGHT
7562
28-Aug-2023
11:49
ALSHS
Server



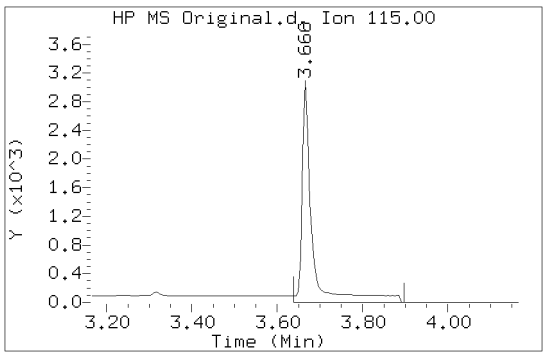
AFTER

MASS
150
AREA
10173
HEIGHT
7562
28-Aug-2023
11:56
ALSHS
S



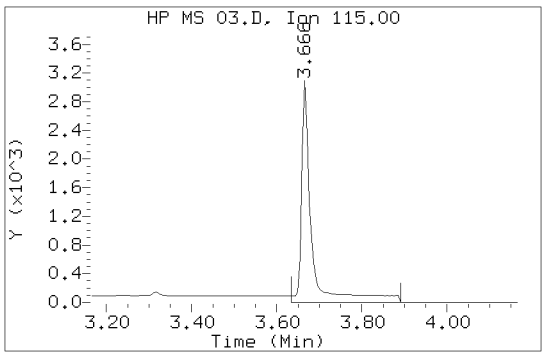
BEFORE

MASS
115
AREA
5000
HEIGHT
3094
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
115
AREA
5029
HEIGHT
3094
28-Aug-2023
11:56
ALSHS
S

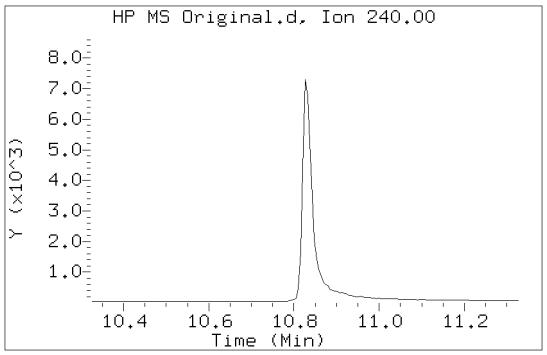


Chrysene-d12 (1719-03-5)

Reason Code:

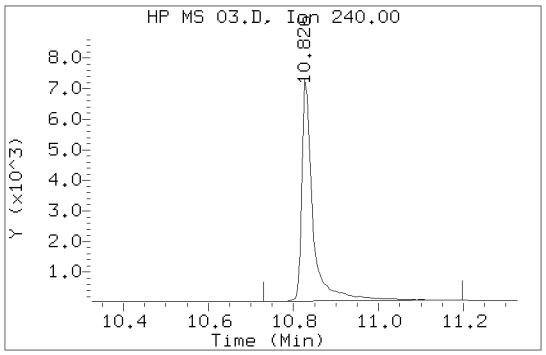
BEFORE

MASS
240
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
240
AREA
13198
HEIGHT
7238
28-Aug-2023
11:56
ALSHS
S



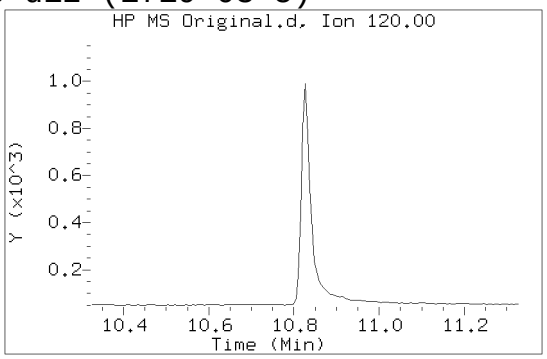
Data File : \\nahstws005\Target\chem\SV6.i\230828.b\03.D
Inj Date : 28-AUG-2023 11:34
InstruID : SV6.i
LabSampID : 1 4DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

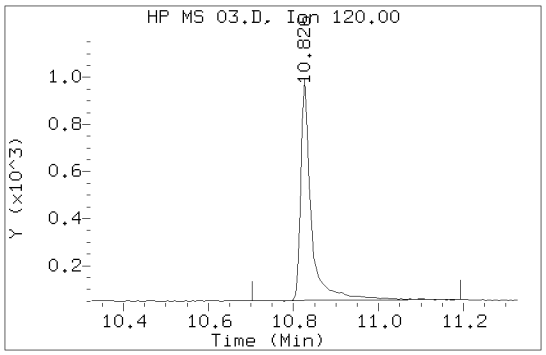
BEFORE

MASS
120
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



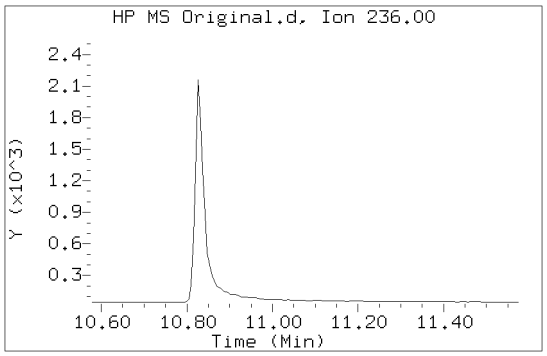
AFTER

MASS
120
AREA
1589
HEIGHT
936
28-Aug-2023
11:56
ALSHS
S



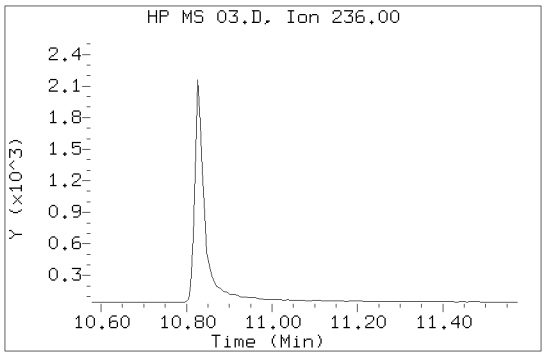
BEFORE

MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
11:56
ALSHS
S

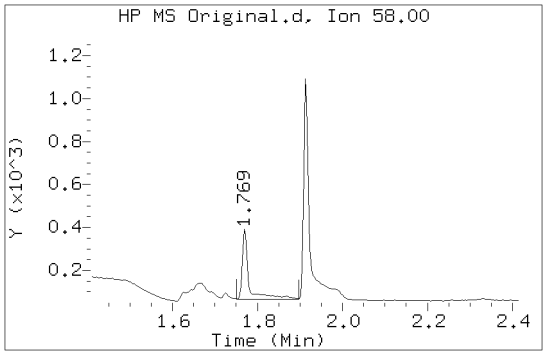


1,4-Dioxane ()

Reason Code:

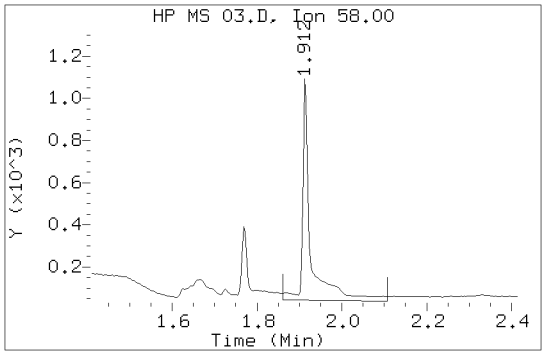
BEFORE

MASS
58
AREA
342
HEIGHT
325
28-Aug-2023
11:49
ALSHS
Server



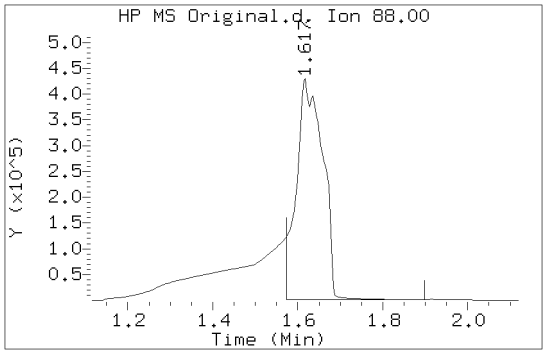
AFTER

MASS
58
AREA
1420
HEIGHT
1049
28-Aug-2023
11:56
ALSHS
S



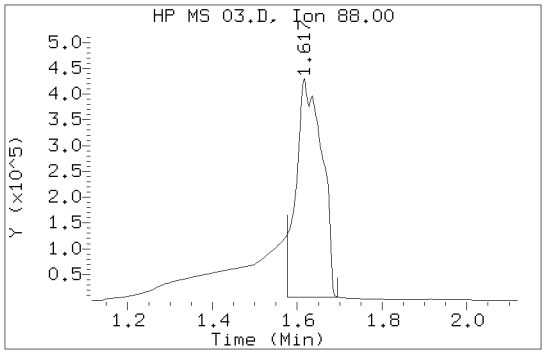
BEFORE

MASS
88
AREA
1862910
HEIGHT
428792
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
88
AREA
1780167
HEIGHT
423519
28-Aug-2023
11:56
ALSHS
S



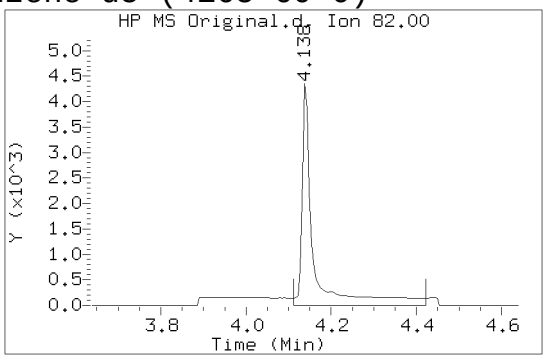
Data File : \\nahstws005\Target\chem\SV6.i\230828.b\03.D
Inj Date : 28-AUG-2023 11:34
InstruID : SV6.i
LabSampID : 1 4DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

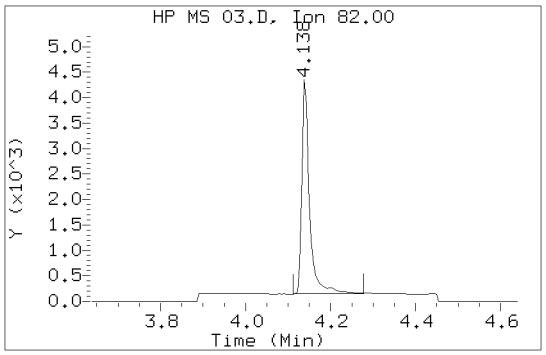
BEFORE

MASS
82
AREA
8139
HEIGHT
4352
28-Aug-2023
11:49
ALSHS
Server



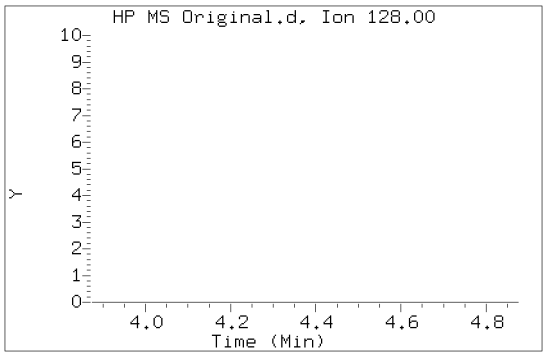
AFTER

MASS
82
AREA
5345
HEIGHT
4206
28-Aug-2023
11:56
ALSHS
S



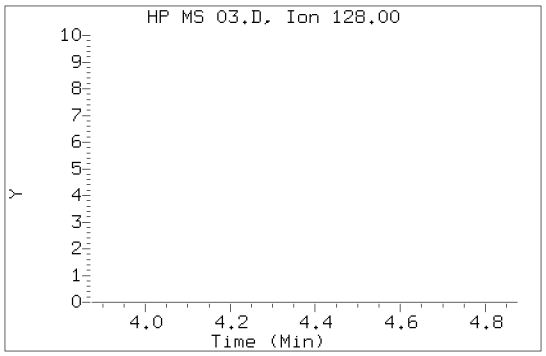
BEFORE

MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



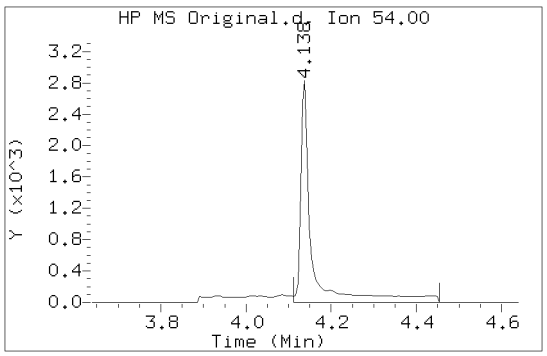
AFTER

MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
11:56
ALSHS
S



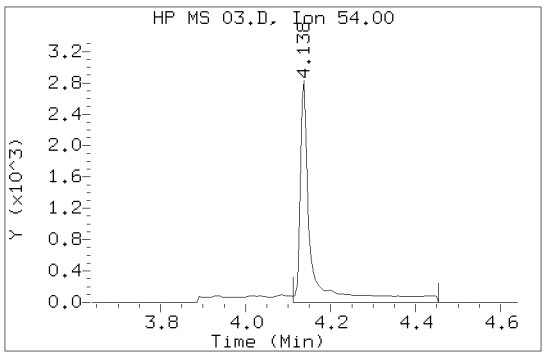
BEFORE

MASS
54
AREA
5165
HEIGHT
2828
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
54
AREA
5165
HEIGHT
2828
28-Aug-2023
11:56
ALSHS
S

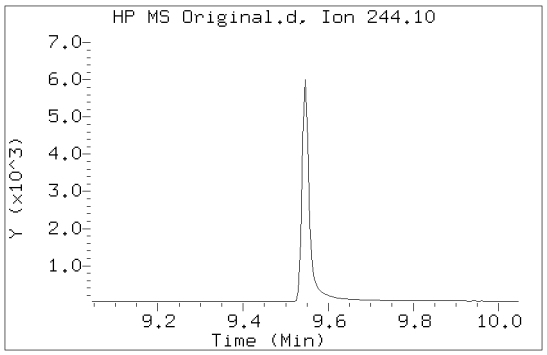


4-Terphenyl-d14 (1718-51-0)

Reason Code:

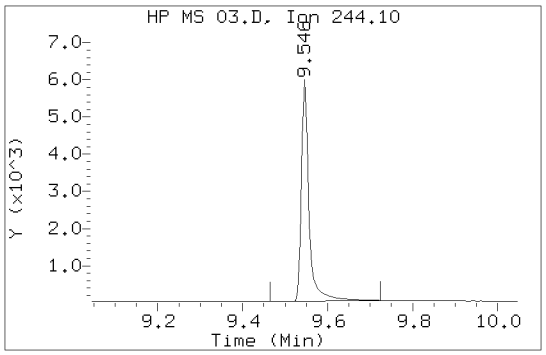
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
244.1
AREA
7270
HEIGHT
5951
28-Aug-2023
11:56
ALSHS
S

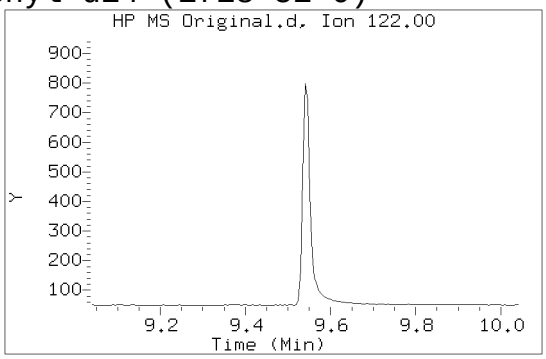


Data File : \\nahstws005\Target\chem\SV6.i\230828.b\03.D
Inj Date : 28-AUG-2023 11:34
InstruID : SV6.i
LabSampID : 1 4DX-0.08

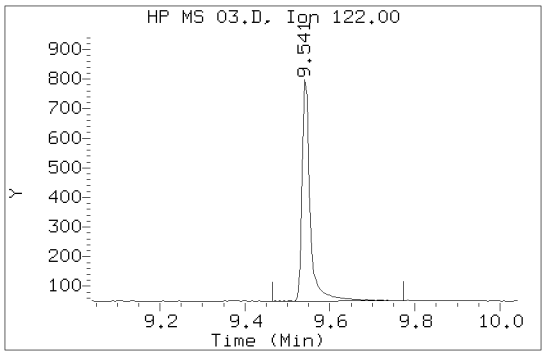
4-Terphenyl-d14 (1718-51-0)

Reason Code:

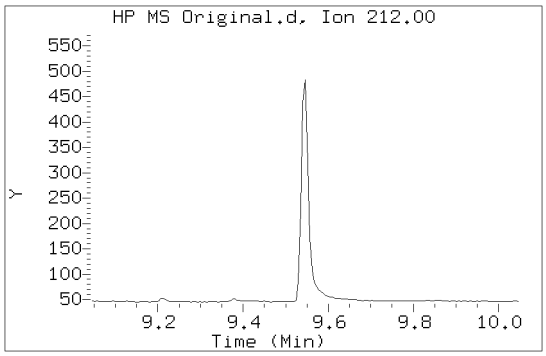
BEFORE
MASS
122
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



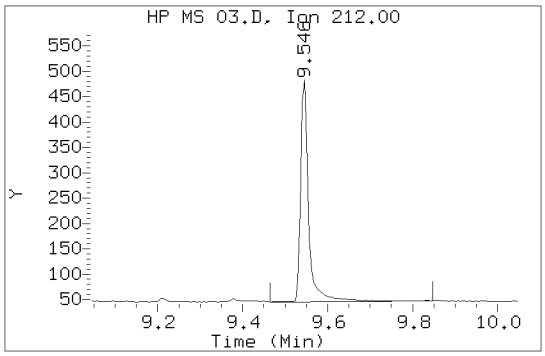
AFTER
MASS
122
AREA
976
HEIGHT
747
28-Aug-2023
11:56
ALSHS
S



BEFORE
MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



AFTER
MASS
212
AREA
564
HEIGHT
437
28-Aug-2023
11:56
ALSHS
S



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D Page 1
Report Date: 29-Aug-2023 15:28

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D
Lab Smp Id: MBLK-199190
Inj Date : 28-AUG-2023 15:23
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-199190;;3;;BLANK
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 15:28 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
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	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	3.665	3.671	(1.000)	5588	0.10000		(a)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	18966	0.10000		
$ 33 Nitrobenzene-d5	82	4.137	4.137	(0.864)	3821	0.06631	0.06631	(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	10316	0.10000		
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	7431	0.07044	0.07044	
* 126 Phenanthrene-d10	188	7.932	7.937	(1.000)	18023	0.10000		
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	10814	0.10000		(M)
$ 158 4-Terphenyl-d14	244	9.540	9.545	(0.881)	7075	0.08868	0.08868	(M)
* 198 Perylene-d12	264	12.953	12.958	(1.000)	7401	0.10000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01250670

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D

Date : 28-AUG-2023 15:23

Client ID:

Instrument: SV6.i

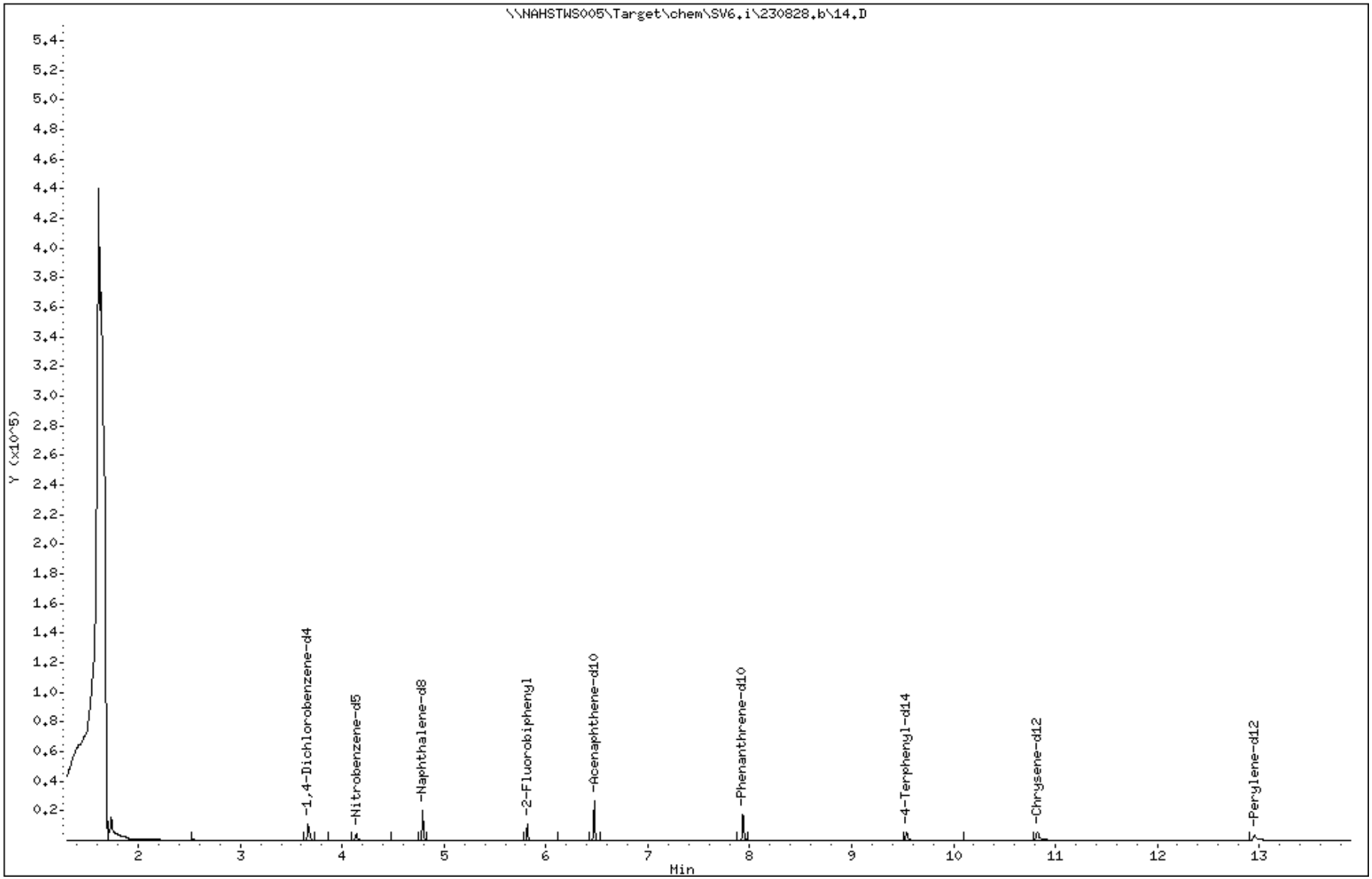
Sample Info: MBLK-199190;;3;;BLANK

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

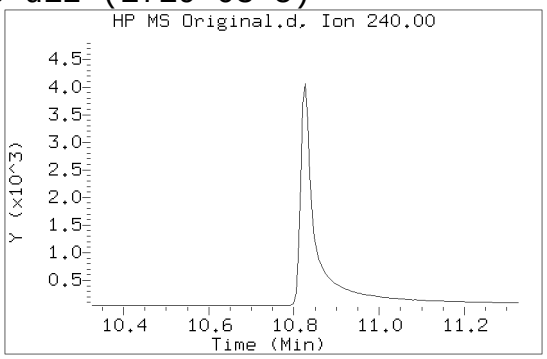


Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D
Inj Date : 28-AUG-2023 15:23
InstruID : SV6.i
LabSampID : MBLK-199190

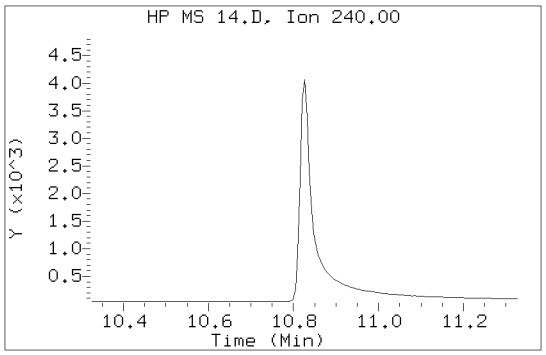
Chrysene-d12 (1719-03-5)

Reason Code:

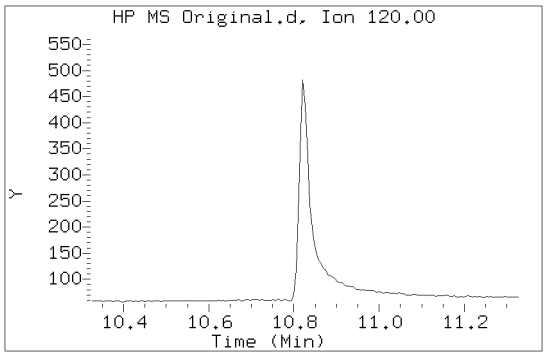
BEFORE
MASS
240
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



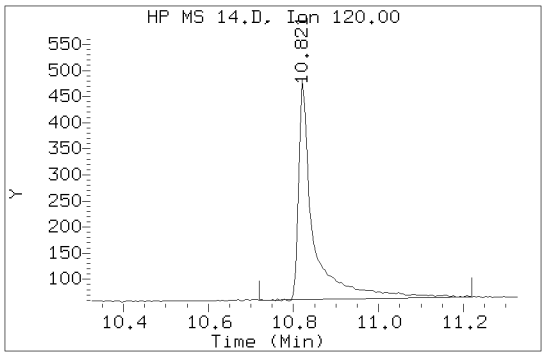
AFTER
MASS
240
AREA
10814
HEIGHT
4009
29-Aug-2023
15:27
ALSHS
Ser



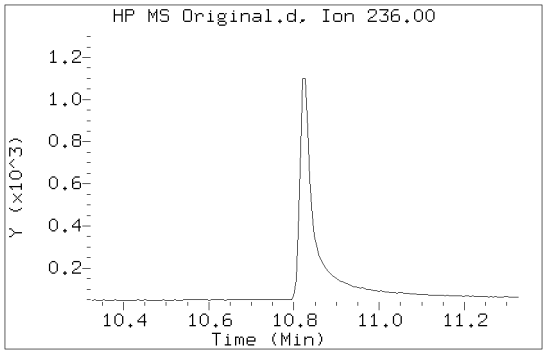
BEFORE
MASS
120
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



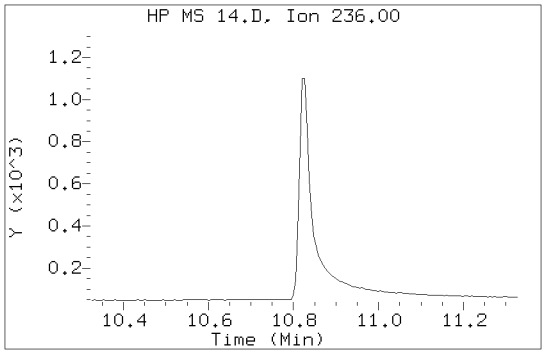
AFTER
MASS
120
AREA
1015
HEIGHT
420
29-Aug-2023
15:27
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



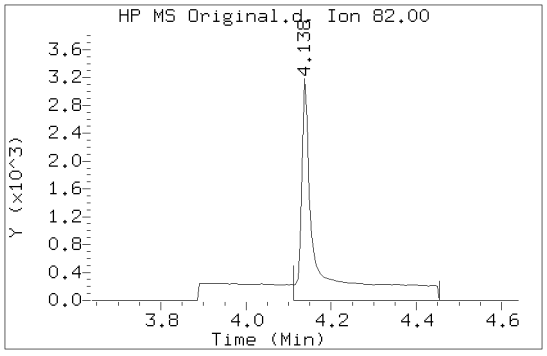
AFTER
MASS
236
AREA
2816
HEIGHT
1046
29-Aug-2023
15:27
ALSHS
Ser



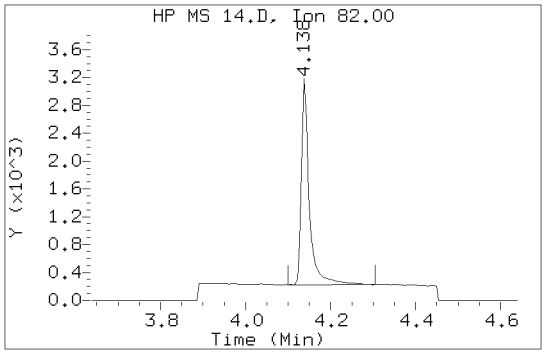
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
8426
HEIGHT
3183
28-Aug-2023
15:39
ALSHS
Server



AFTER
MASS
82
AREA
3821
HEIGHT
2957
29-Aug-2023
15:27
ALSHS
Ser

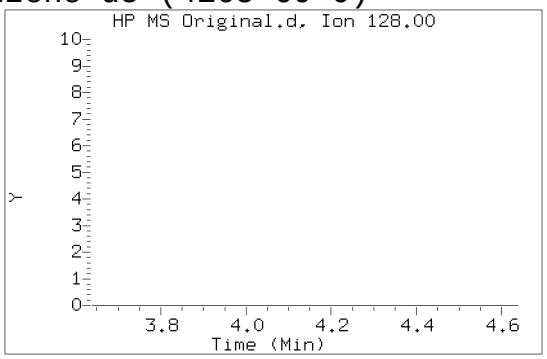


Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D
Inj Date : 28-AUG-2023 15:23
InstruID : SV6.i
LabSampID : MBLK-199190

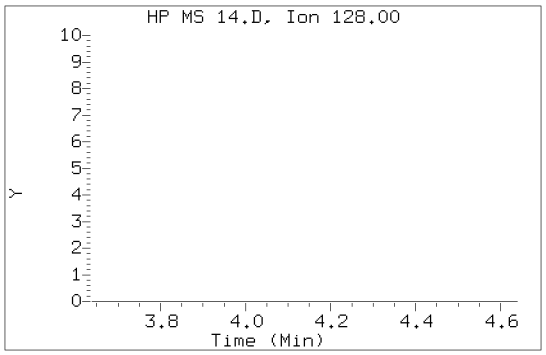
Nitrobenzene-d5 (4165-60-0)

Reason Code:

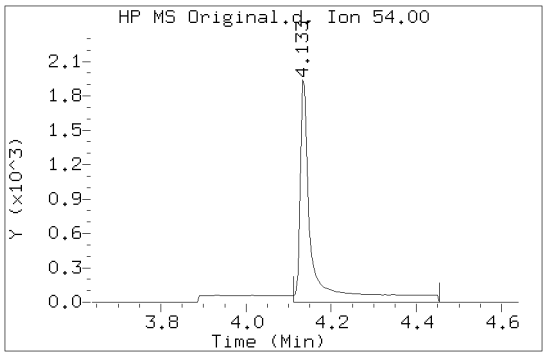
BEFORE
MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



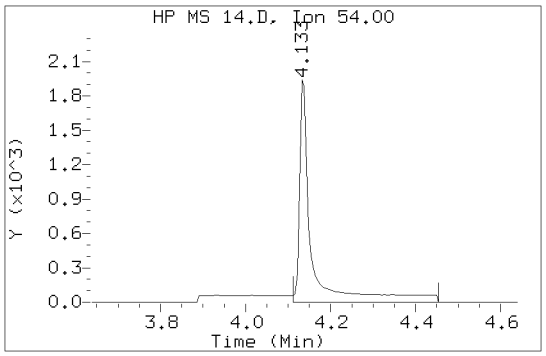
AFTER
MASS
128
AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser



BEFORE
MASS
54
AREA
3869
HEIGHT
1940
28-Aug-2023
15:39
ALSHS
Server



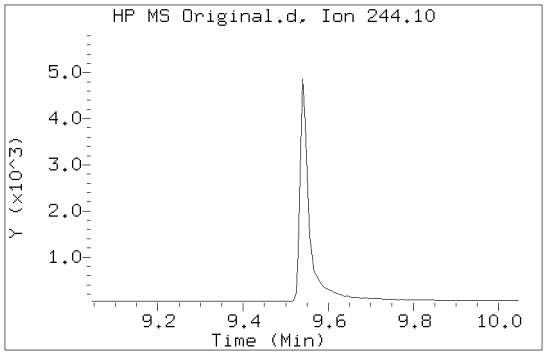
AFTER
MASS
54
AREA
3869
HEIGHT
1940
29-Aug-2023
15:27
ALSHS
Ser



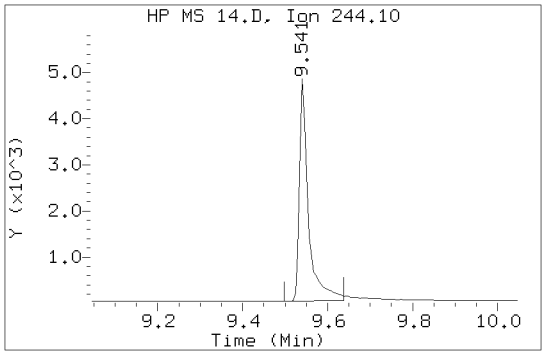
4-Terphenyl-d14 (1718-51-0)

Reason Code:

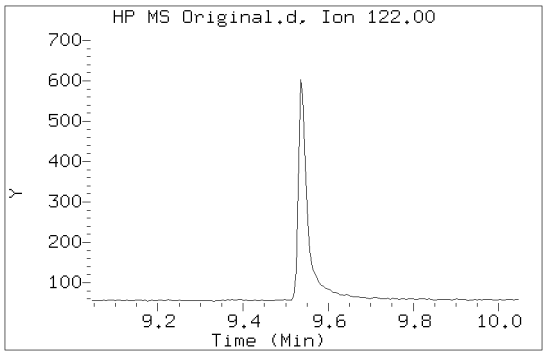
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



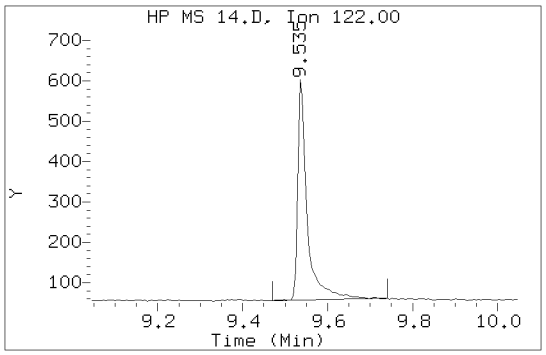
AFTER
MASS
244.1
AREA
7075
HEIGHT
4813
29-Aug-2023
15:27
ALSHS
Ser



BEFORE
MASS
122
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



AFTER
MASS
122
AREA
836
HEIGHT
545
29-Aug-2023
15:27
ALSHS
Ser



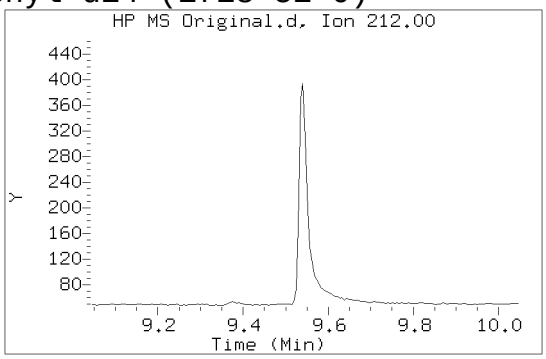
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D
Inj Date : 28-AUG-2023 15:23
InstruID : SV6.i
LabSampID : MBLK-199190

4-Terphenyl-d14 (1718-51-0)

Reason Code:

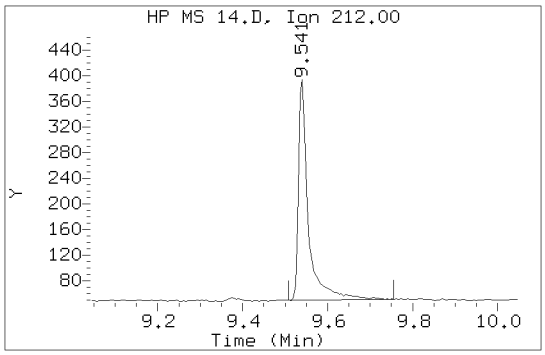
BEFORE

MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



AFTER

MASS
212
AREA
551
HEIGHT
343
29-Aug-2023
15:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Lab Smp Id: LCS1-199190
Inj Date : 28-AUG-2023 15:41
Operator : LG Inst ID: SV6.i
Smp Info : LCS1-199190;;3;;LCS
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 15:28 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
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	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	3.665	3.671	(1.000)	5015	0.10000	(aM)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	22574	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.138	4.137	(0.864)	6753	0.09846	0.09846(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	13305	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	11562	0.08498	0.08498
* 126 Phenanthrene-d10	188	7.932	7.937	(1.000)	19428	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	15703	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.540	9.545	(0.881)	10161	0.08771	0.08771(M)
* 198 Perylene-d12	264	12.953	12.958	(1.000)	7604	0.10000	(M)
1 1,4-Dioxane	58	1.890	1.912	(0.516)	1013	0.05953	0.05953(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01250675

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D

Page 1

Date : 28-AUG-2023 15:41

Client ID:

Instrument: SV6.i

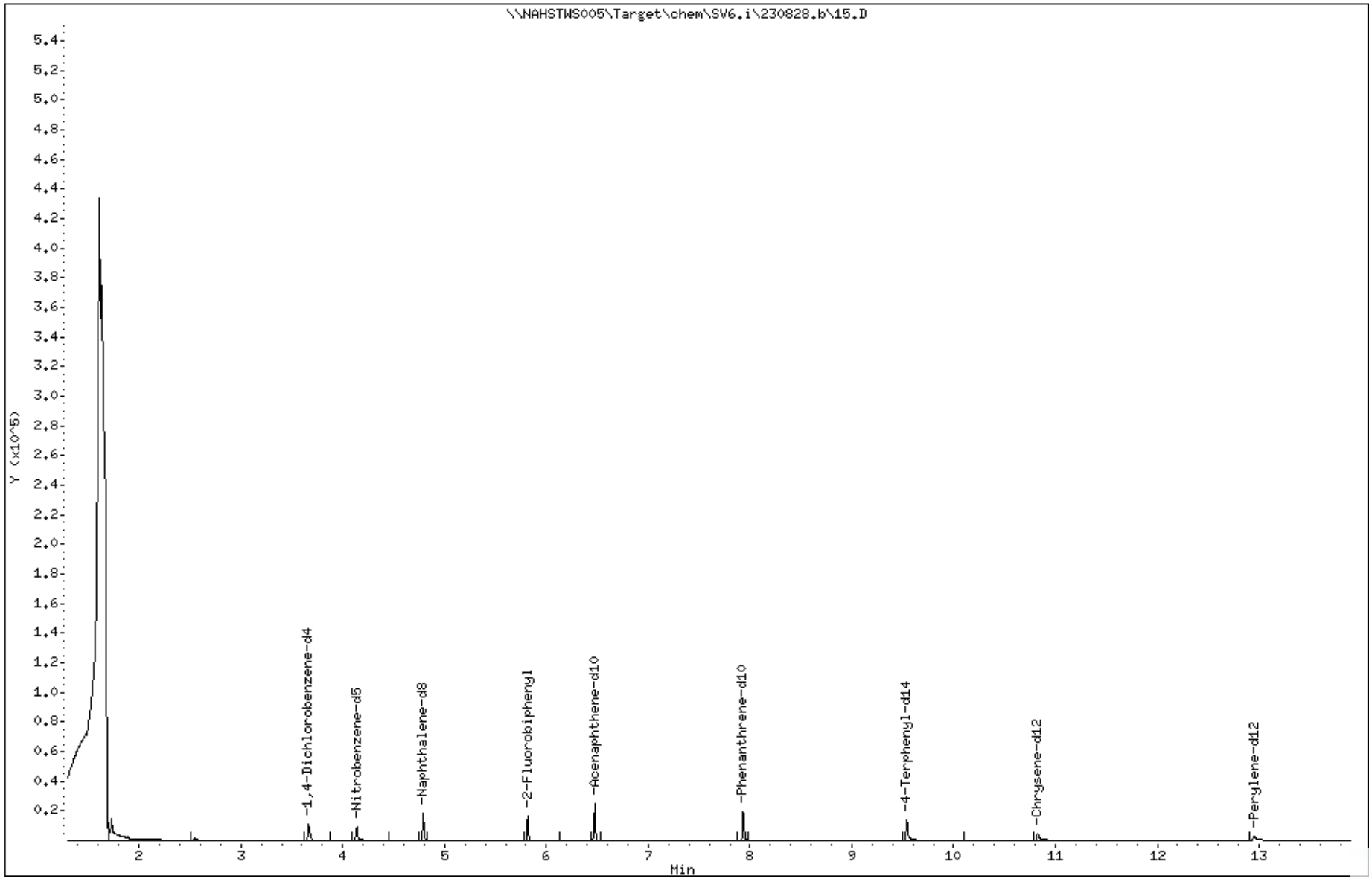
Sample Info: LCS1-199190;;3;;LCS

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



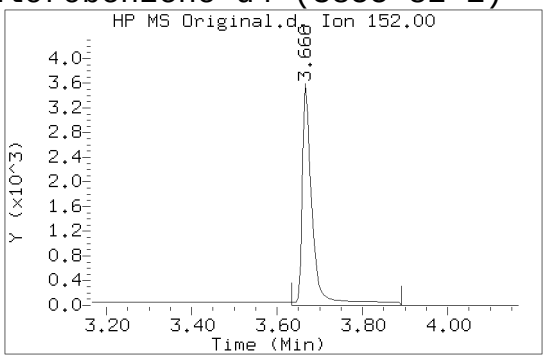
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

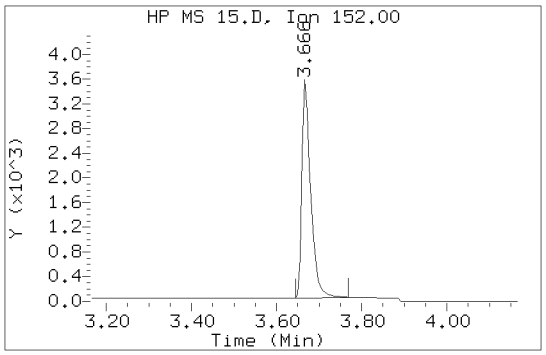
BEFORE

MASS
152
AREA
5896
HEIGHT
3592
28-Aug-2023
17:07
ALSHS
Server



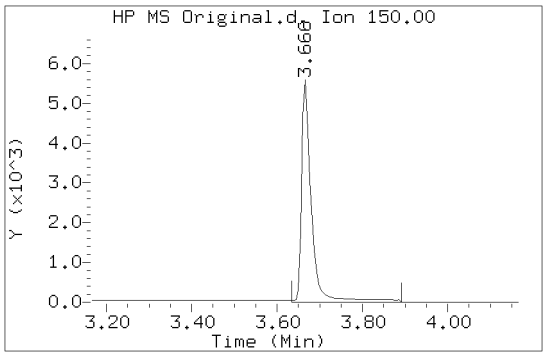
AFTER

MASS
152
AREA
5015
HEIGHT
3539
29-Aug-2023
15:27
ALSHS
Ser



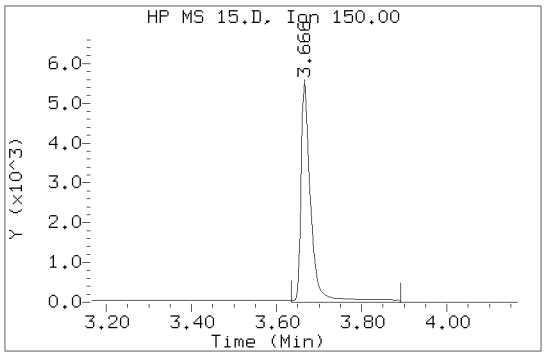
BEFORE

MASS
150
AREA
8897
HEIGHT
5590
28-Aug-2023
17:07
ALSHS
Server



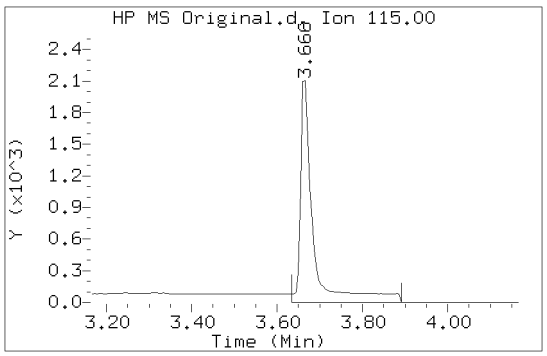
AFTER

MASS
150
AREA
8897
HEIGHT
5590
29-Aug-2023
15:27
ALSHS
Ser



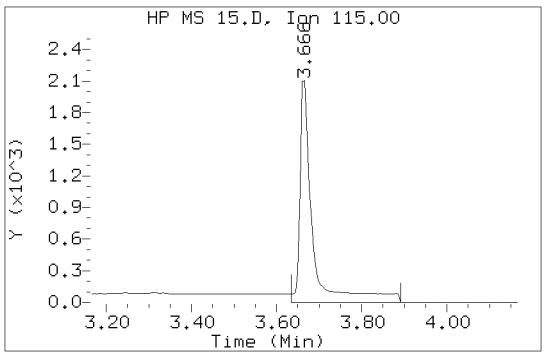
BEFORE

MASS
115
AREA
4347
HEIGHT
2103
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
115
AREA
4347
HEIGHT
2103
29-Aug-2023
15:27
ALSHS
Ser

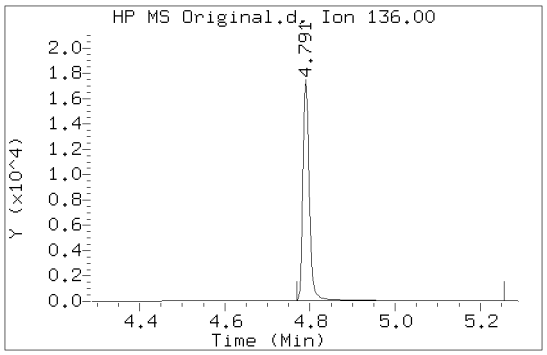


Naphthalene-d8 (1146-65-2)

Reason Code:

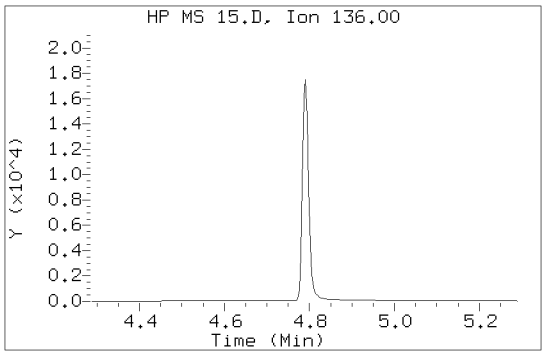
BEFORE

MASS
136
AREA
18367
HEIGHT
17438
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
136
AREA
22574
HEIGHT
17496
29-Aug-2023
15:27
ALSHS
Ser



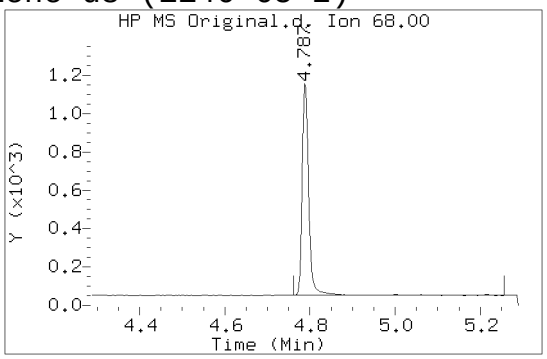
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

Naphthalene-d8 (1146-65-2)

Reason Code:

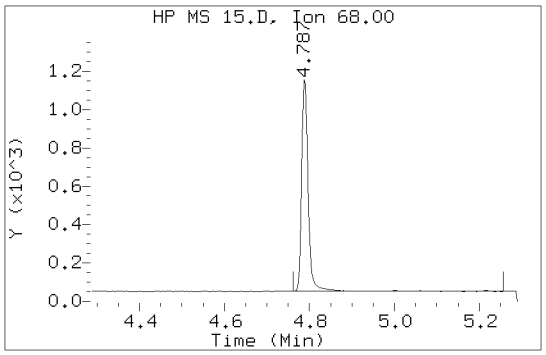
BEFORE

MASS
68
AREA
1195
HEIGHT
1104
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
68
AREA
1195
HEIGHT
1104
29-Aug-2023
15:27
ALSHS
Ser

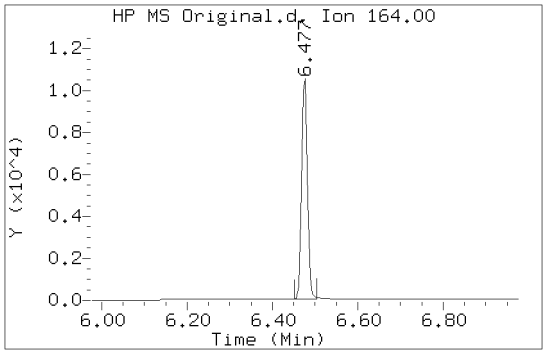


Acenaphthene-d10 (15067-26-2)

Reason Code:

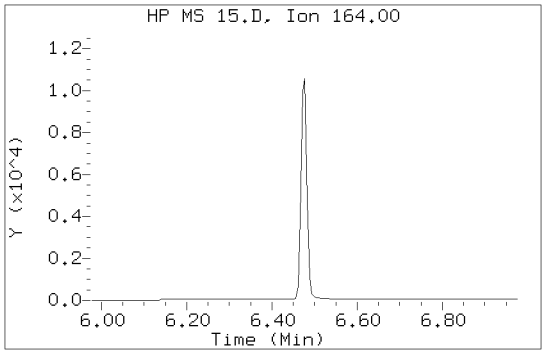
BEFORE

MASS
164
AREA
10018
HEIGHT
10514
28-Aug-2023
17:07
ALSHS
Server



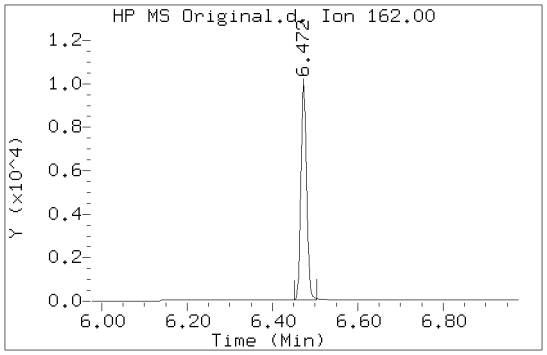
AFTER

MASS
164
AREA
13305
HEIGHT
10566
29-Aug-2023
15:27
ALSHS
Ser



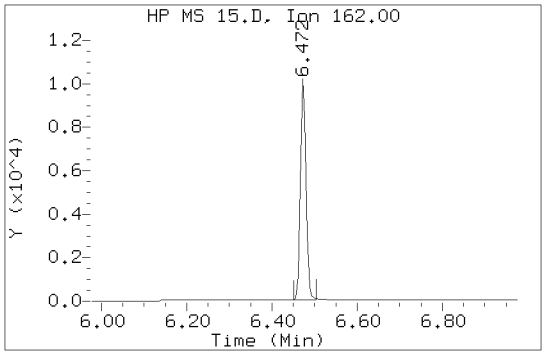
BEFORE

MASS
162
AREA
9341
HEIGHT
10171
28-Aug-2023
17:07
ALSHS
Server



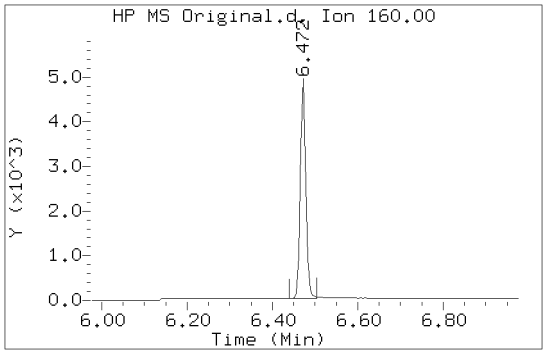
AFTER

MASS
162
AREA
9341
HEIGHT
10171
29-Aug-2023
15:27
ALSHS
Ser



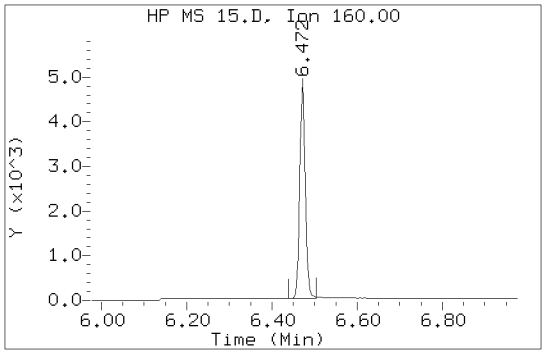
BEFORE

MASS
160
AREA
4413
HEIGHT
4918
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
160
AREA
4413
HEIGHT
4918
29-Aug-2023
15:27
ALSHS
Ser



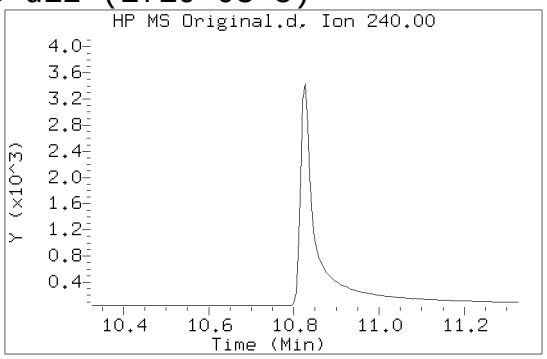
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

Chrysene-d12 (1719-03-5)

Reason Code:

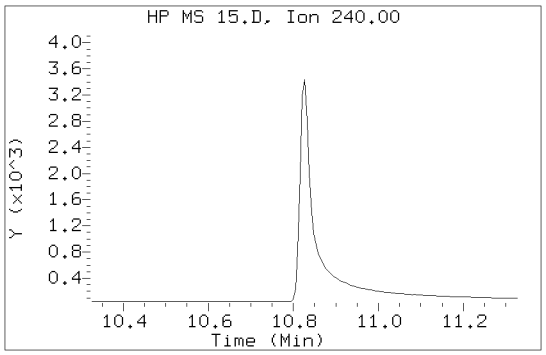
BEFORE

MASS
240
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



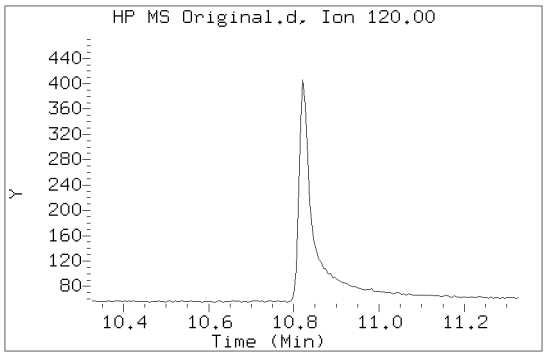
AFTER

MASS
240
AREA
15703
HEIGHT
3434
29-Aug-2023
15:27
ALSHS
Ser



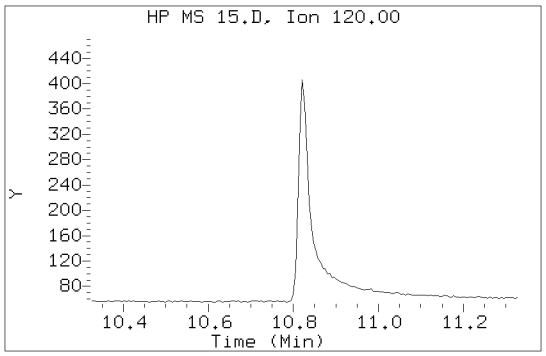
BEFORE

MASS
120
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



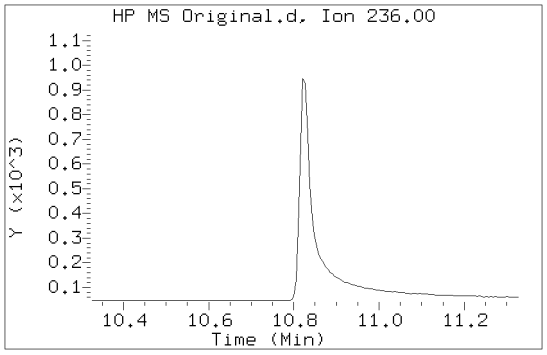
AFTER

MASS
120
AREA
926
HEIGHT
349
29-Aug-2023
15:27
ALSHS
Ser



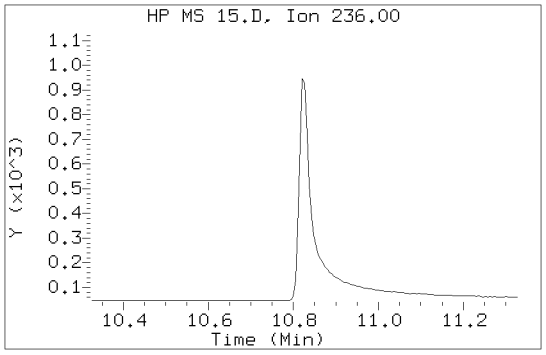
BEFORE

MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
236
AREA
2671
HEIGHT
897
29-Aug-2023
15:27
ALSHS
Ser

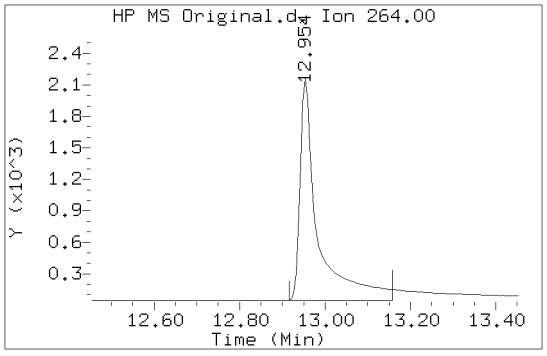


Perylene-d12 (1520-96-3)

Reason Code:

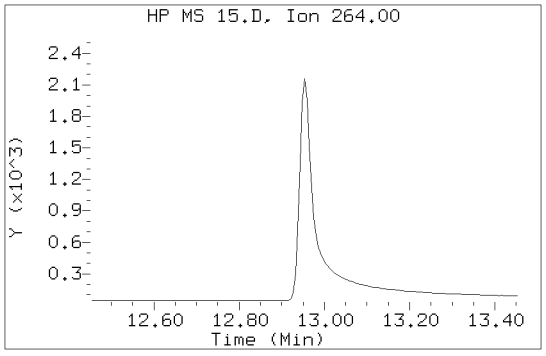
BEFORE

MASS
264
AREA
6037
HEIGHT
2108
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
264
AREA
7604
HEIGHT
2118
29-Aug-2023
15:27
ALSHS
Ser

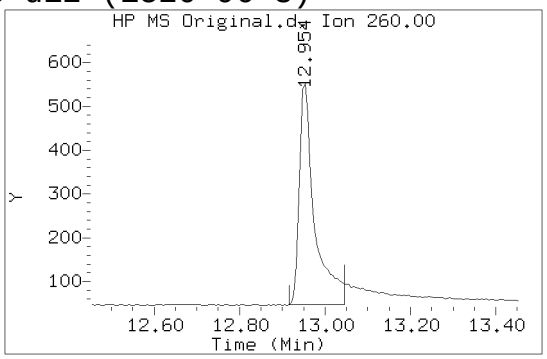


Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

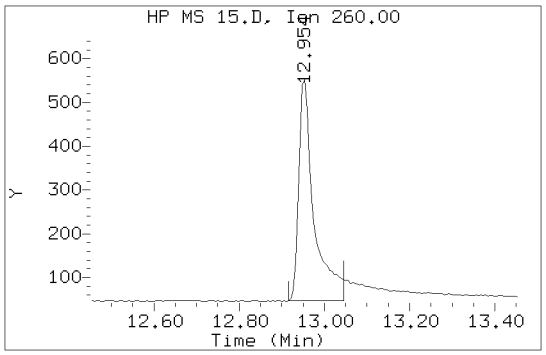
Perylene-d12 (1520-96-3)

Reason Code:

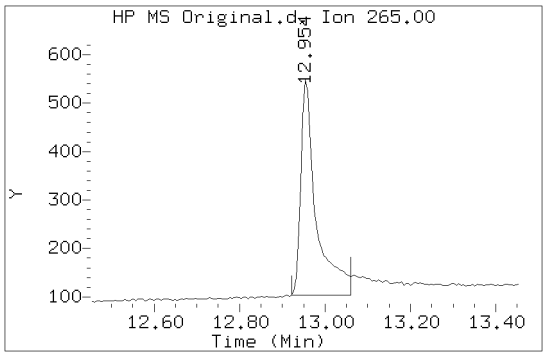
BEFORE
MASS
260
AREA
1247
HEIGHT
504
28-Aug-2023
17:07
ALSHS
Server



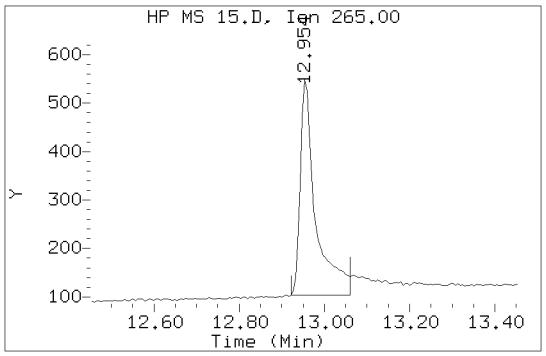
AFTER
MASS
260
AREA
1247
HEIGHT
504
29-Aug-2023
15:27
ALSHS
Ser



BEFORE
MASS
265
AREA
1121
HEIGHT
445
28-Aug-2023
17:07
ALSHS
Server



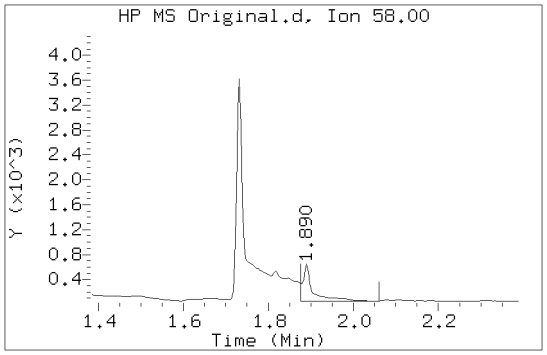
AFTER
MASS
265
AREA
1121
HEIGHT
445
29-Aug-2023
15:27
ALSHS
Ser



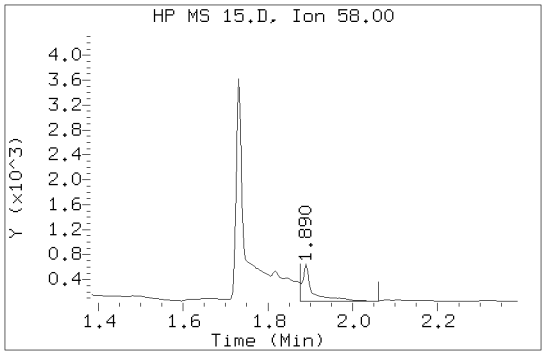
1,4-Dioxane ()

Reason Code:

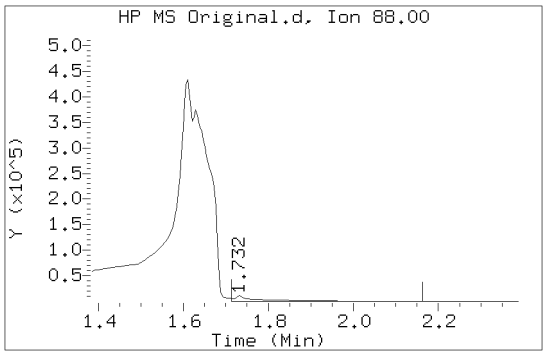
BEFORE
MASS
58
AREA
957
HEIGHT
596
28-Aug-2023
17:07
ALSHS
Server



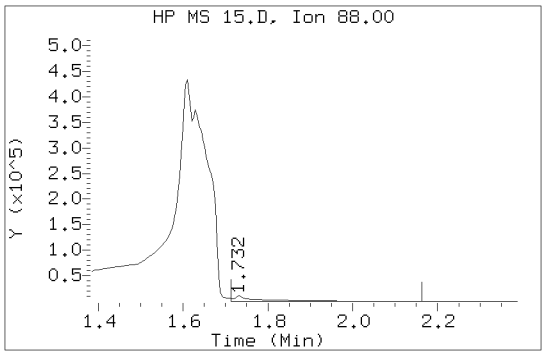
AFTER
MASS
58
AREA
1013
HEIGHT
601
29-Aug-2023
15:27
ALSHS
Ser



BEFORE
MASS
88
AREA
40773
HEIGHT
10813
28-Aug-2023
17:07
ALSHS
Server



AFTER
MASS
88
AREA
40773
HEIGHT
10813
29-Aug-2023
15:27
ALSHS
Ser



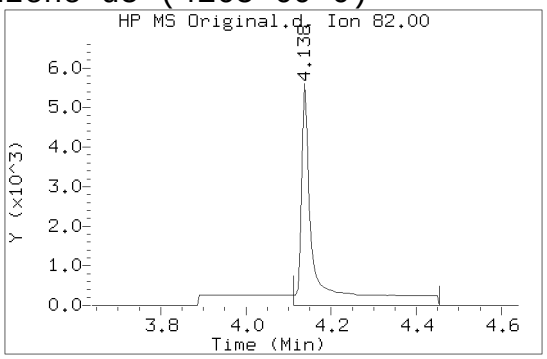
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

Nitrobenzene-d5 (4165-60-0)

Reason Code:

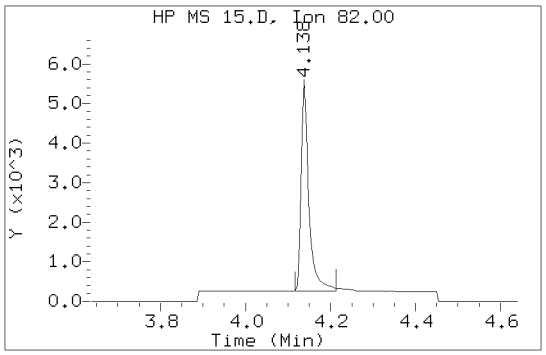
BEFORE

MASS
82
AREA
12128
HEIGHT
5604
28-Aug-2023
17:07
ALSHS
Server



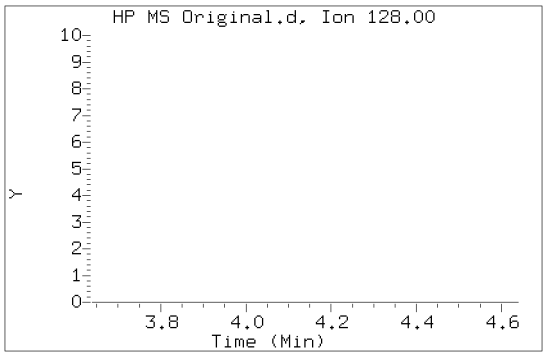
AFTER

MASS
82
AREA
6753
HEIGHT
5343
29-Aug-2023
15:27
ALSHS
Ser



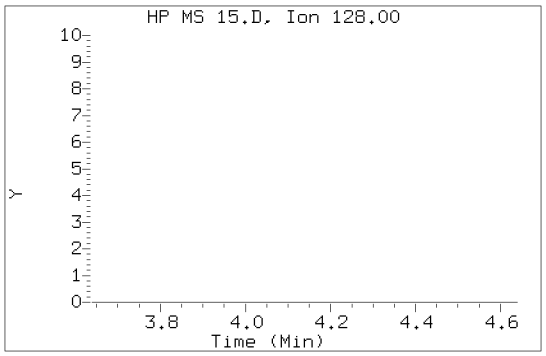
BEFORE

MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



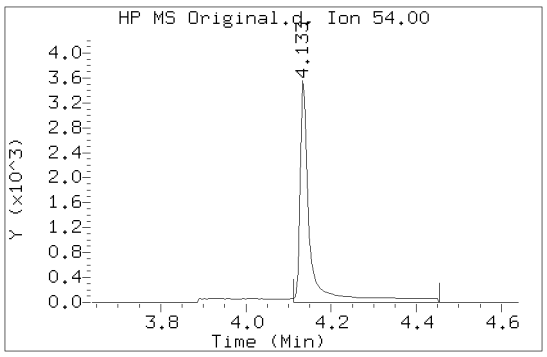
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser



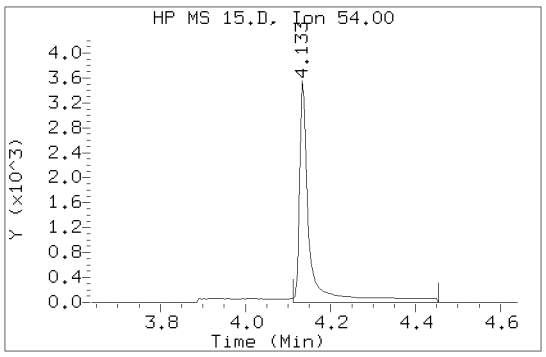
BEFORE

MASS
54
AREA
5940
HEIGHT
3556
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
54
AREA
5940
HEIGHT
3556
29-Aug-2023
15:27
ALSHS
Ser

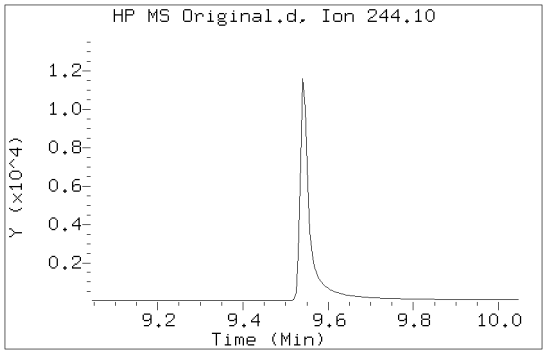


4-Terphenyl-d14 (1718-51-0)

Reason Code:

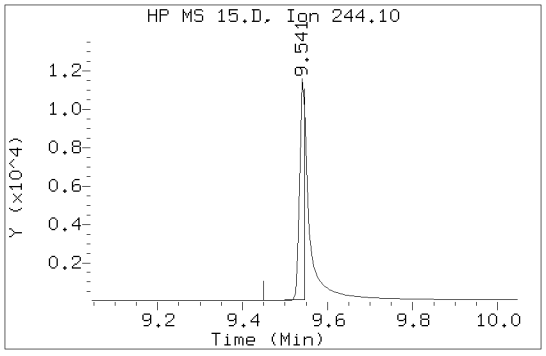
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
244.1
AREA
10161
HEIGHT
11541
29-Aug-2023
15:27
ALSHS
Ser

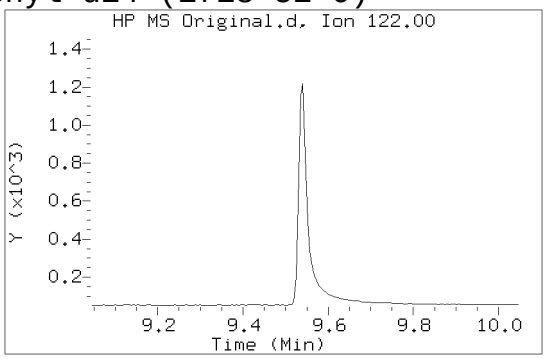


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Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

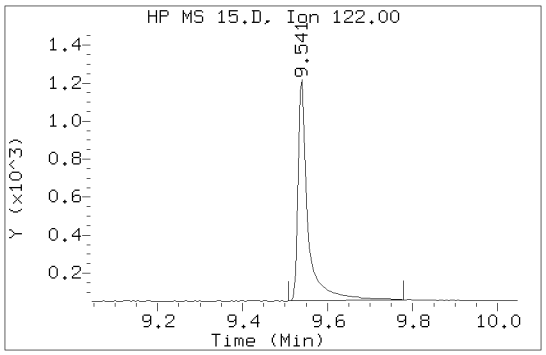
4-Terphenyl-d14 (1718-51-0)

Reason Code:

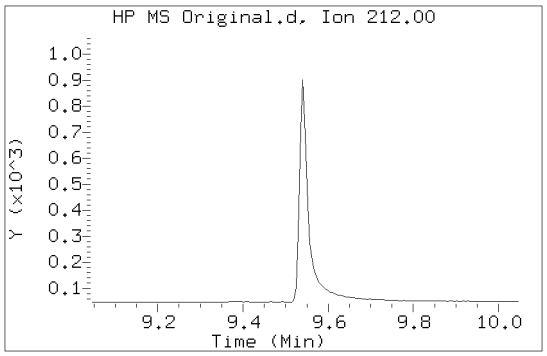
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MASS
122
AREA
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HEIGHT
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28-Aug-2023
17:07
ALSHS
Server



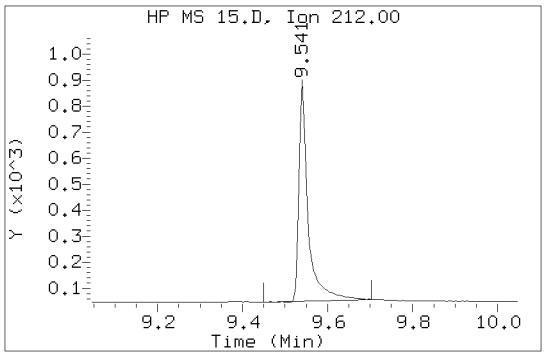
AFTER
MASS
122
AREA
1883
HEIGHT
1163
29-Aug-2023
15:27
ALSHS
Ser



BEFORE
MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



AFTER
MASS
212
AREA
1247
HEIGHT
849
29-Aug-2023
15:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\16.D Page 1
Report Date: 29-Aug-2023 15:28

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\16.D
Lab Smp Id: LCSD1-199190
Inj Date : 28-AUG-2023 15:59
Operator : LG Inst ID: SV6.i
Smp Info : LCSD1-199190;;3;;LCSD
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 15:28 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 16 QC Sample: LCSD
Dil Factor: 1.00000
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	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	3.665	3.671	(1.000)	3857	0.10000	(aM)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	17950	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.138	4.137	(0.864)	5389	0.09881	0.09881(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	12169	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	12965	0.10419	0.1042
* 126 Phenanthrene-d10	188	7.937	7.937	(1.000)	16977	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	13423	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.540	9.545	(0.881)	7986	0.08064	0.08064(M)
* 198 Perylene-d12	264	12.953	12.958	(1.000)	6117	0.10000	(M)
1 1,4-Dioxane	58	1.886	1.912	(0.515)	860	0.06572	0.06572(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.

01250683

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\16.D

Page 1

Date : 28-AUG-2023 15:59

Client ID:

Instrument: SV6.i

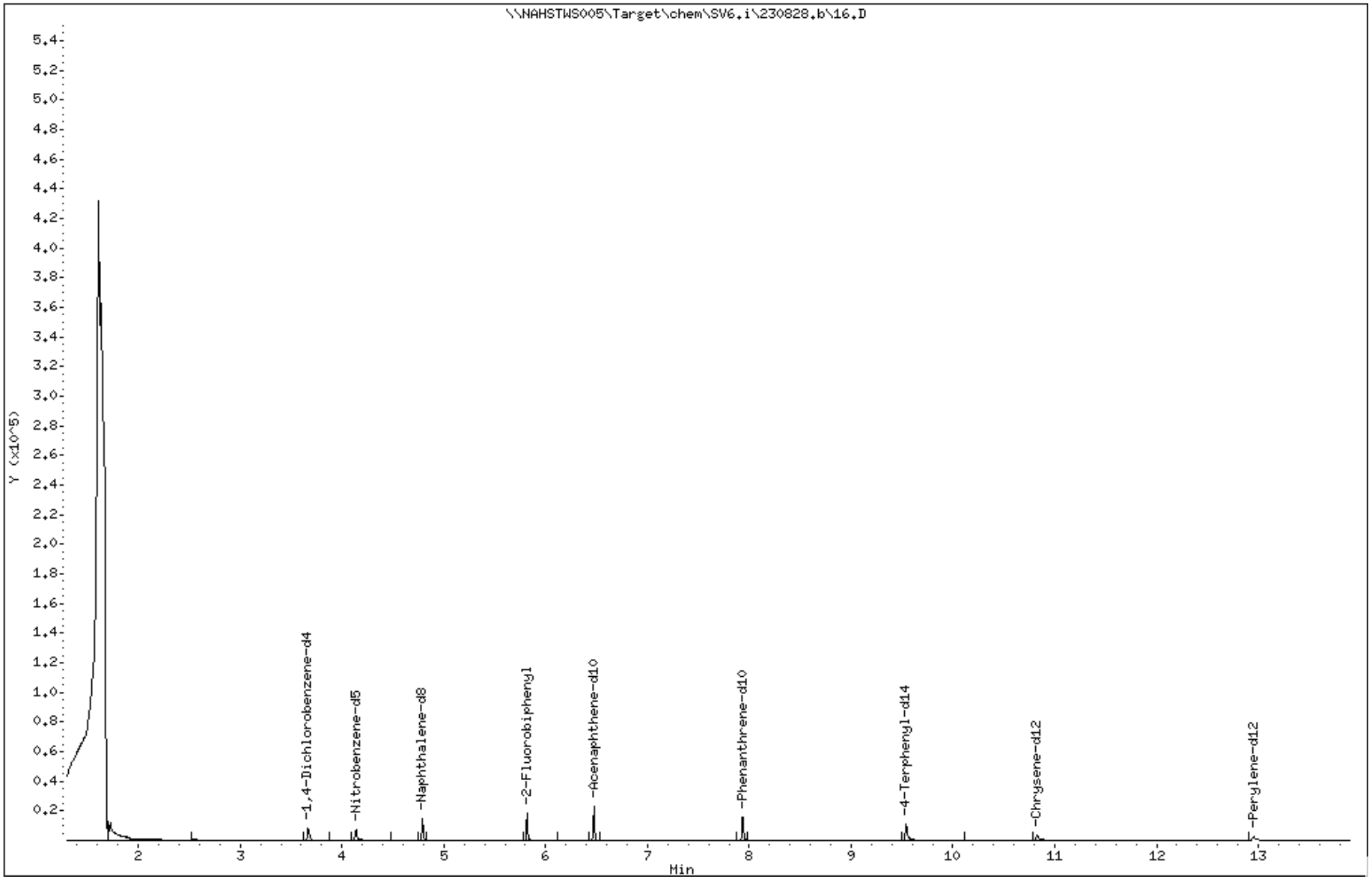
Sample Info: LCSD1-199190;;3;;LCSD

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



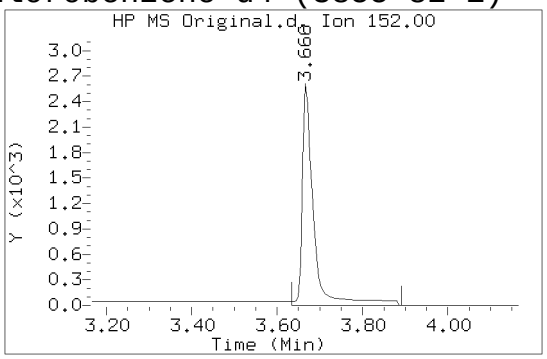
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Inj Date : 28-AUG-2023 15:59
InstruID : SV6.i
LabSampID : LCSD1-199190

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

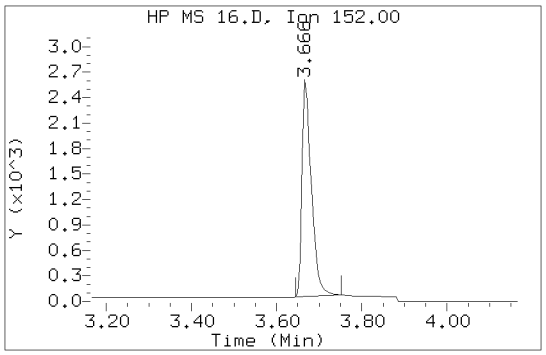
BEFORE

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152
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HEIGHT
2611
28-Aug-2023
17:07
ALSHS
Server



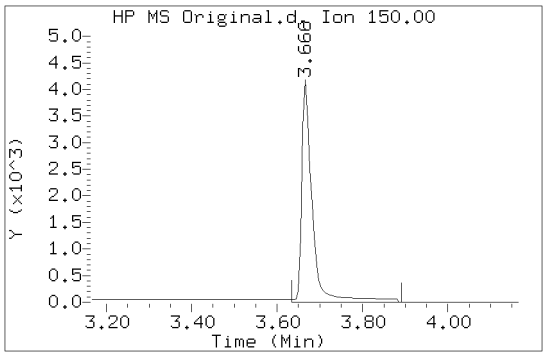
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HEIGHT
2554
29-Aug-2023
15:27
ALSHS
Ser



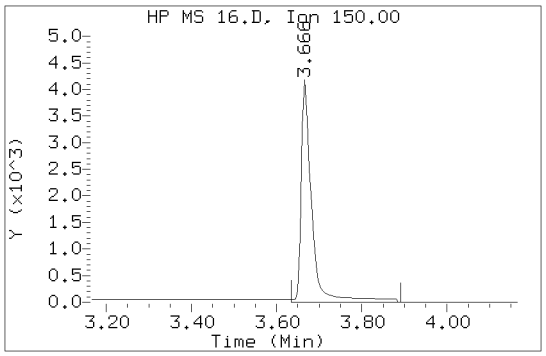
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AREA
7168
HEIGHT
4179
28-Aug-2023
17:07
ALSHS
Server



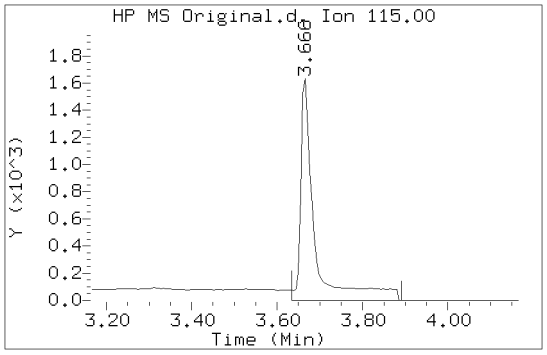
AFTER

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HEIGHT
4179
29-Aug-2023
15:27
ALSHS
Ser



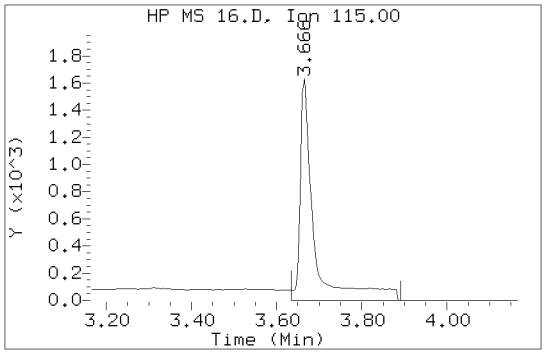
BEFORE

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115
AREA
3666
HEIGHT
1632
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
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AREA
3666
HEIGHT
1632
29-Aug-2023
15:27
ALSHS
Ser

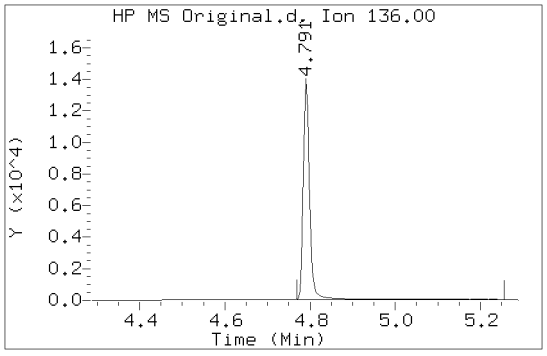


Naphthalene-d8 (1146-65-2)

Reason Code:

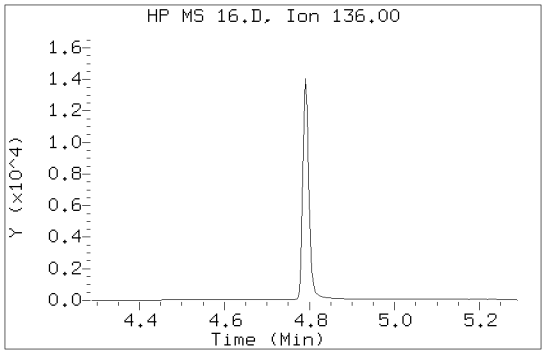
BEFORE

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136
AREA
14307
HEIGHT
13985
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
136
AREA
17950
HEIGHT
14043
29-Aug-2023
15:27
ALSHS
Ser



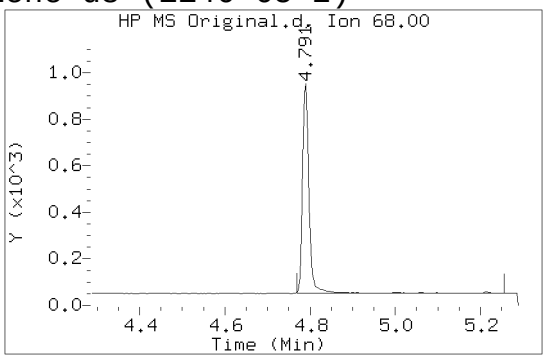
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Inj Date : 28-AUG-2023 15:59
InstruID : SV6.i
LabSampID : LCSD1-199190

Naphthalene-d8 (1146-65-2)

Reason Code:

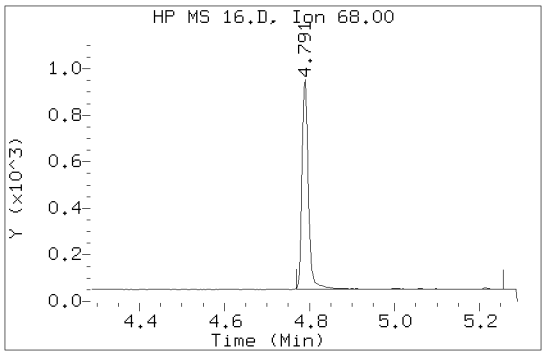
BEFORE

MASS
68
AREA
953
HEIGHT
901
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
68
AREA
953
HEIGHT
901
29-Aug-2023
15:27
ALSHS
Ser

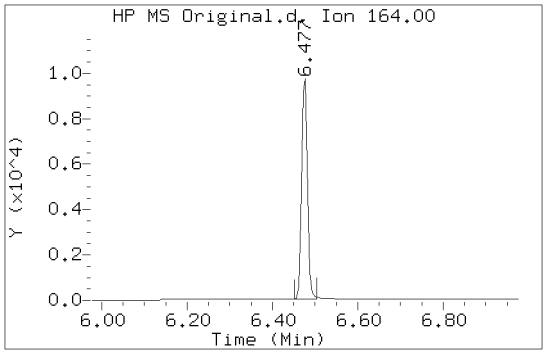


Acenaphthene-d10 (15067-26-2)

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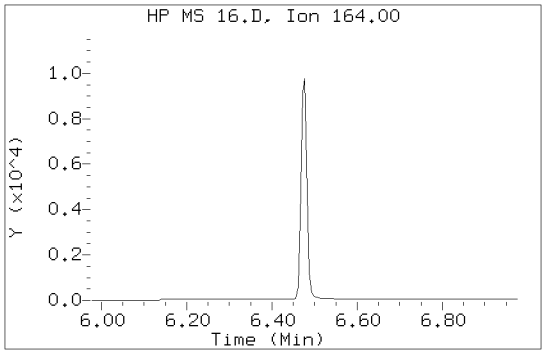
BEFORE

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AREA
9416
HEIGHT
9711
28-Aug-2023
17:07
ALSHS
Server



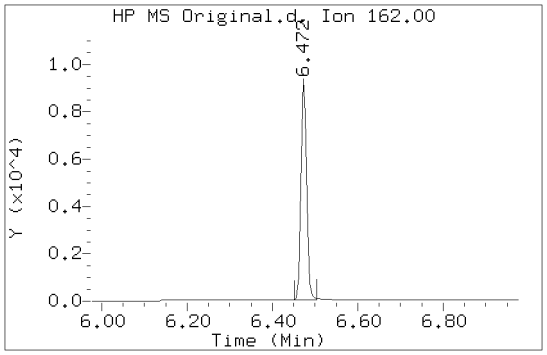
AFTER

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9764
29-Aug-2023
15:27
ALSHS
Ser



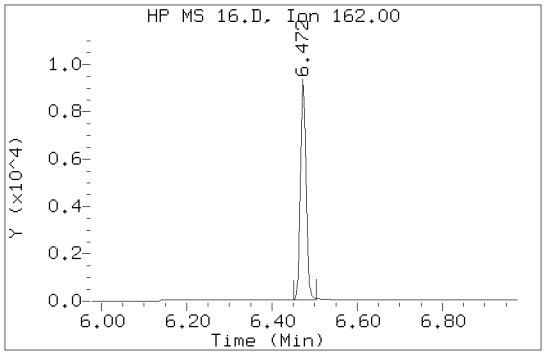
BEFORE

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28-Aug-2023
17:07
ALSHS
Server



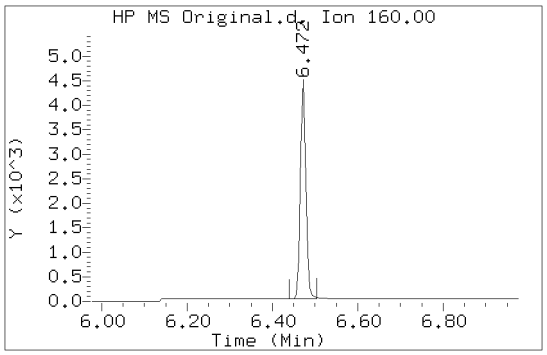
AFTER

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AREA
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HEIGHT
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15:27
ALSHS
Ser



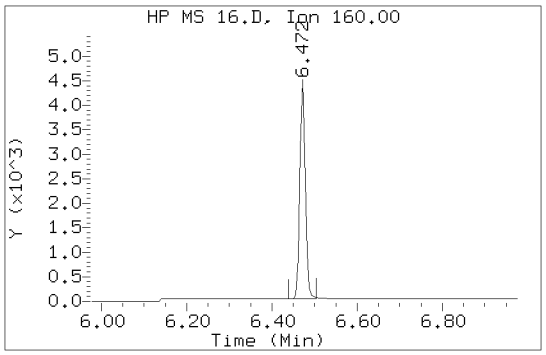
BEFORE

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AREA
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HEIGHT
4477
28-Aug-2023
17:07
ALSHS
Server



AFTER

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AREA
4084
HEIGHT
4477
29-Aug-2023
15:27
ALSHS
Ser



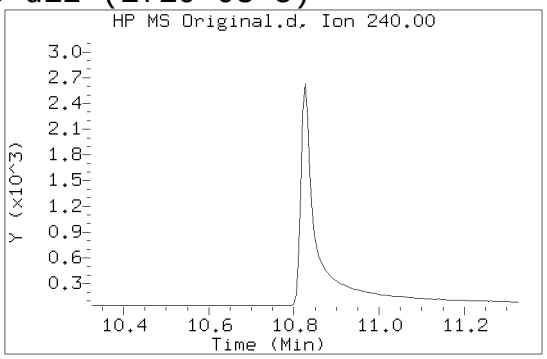
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Inj Date : 28-AUG-2023 15:59
InstruID : SV6.i
LabSampID : LCSD1-199190

Chrysene-d12 (1719-03-5)

Reason Code:

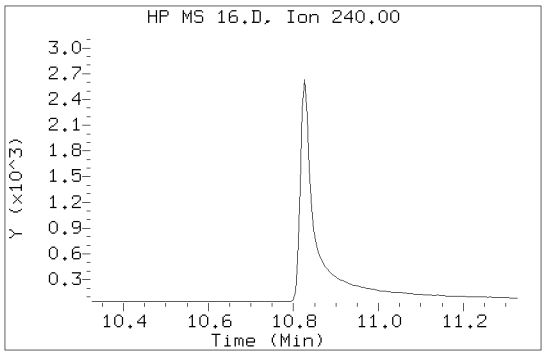
BEFORE

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AREA
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HEIGHT
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28-Aug-2023
17:07
ALSHS
Server



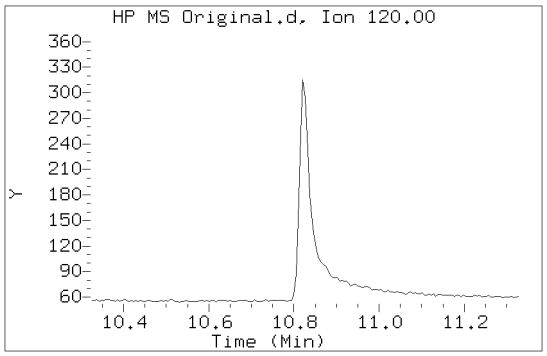
AFTER

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HEIGHT
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29-Aug-2023
15:27
ALSHS
Ser



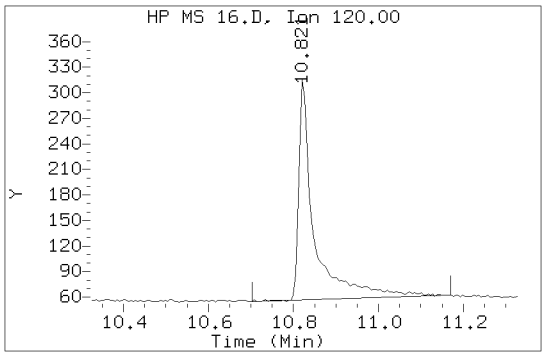
BEFORE

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HEIGHT
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28-Aug-2023
17:07
ALSHS
Server



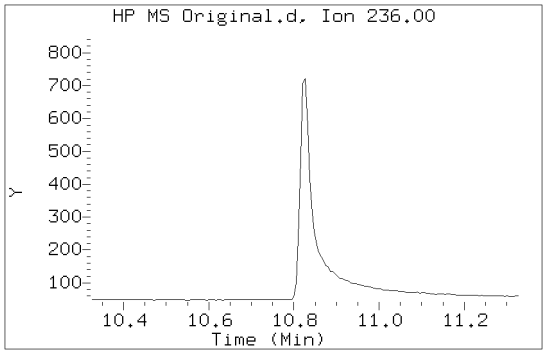
AFTER

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AREA
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HEIGHT
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29-Aug-2023
15:27
ALSHS
Ser



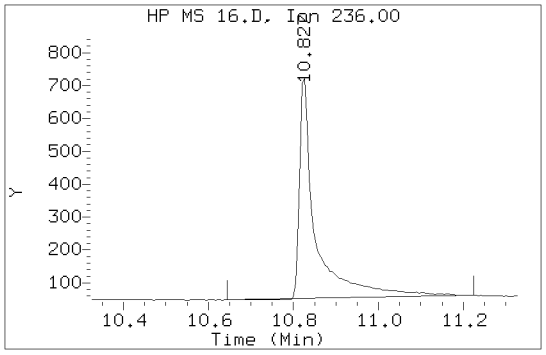
BEFORE

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HEIGHT
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28-Aug-2023
17:07
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AFTER

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668
29-Aug-2023
15:27
ALSHS
Ser

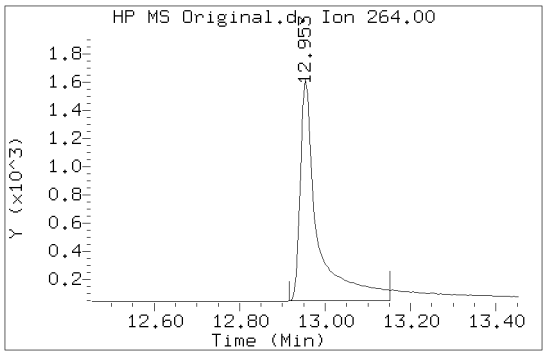


Perylene-d12 (1520-96-3)

Reason Code:

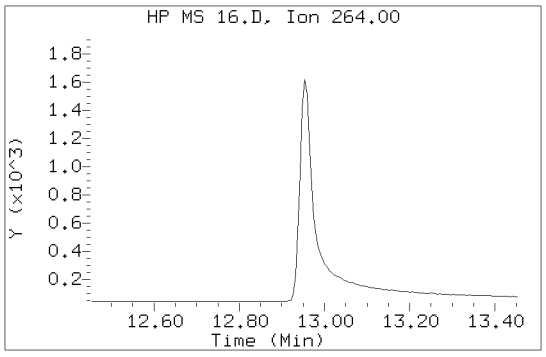
BEFORE

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AREA
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HEIGHT
1566
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
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AREA
6117
HEIGHT
1570
29-Aug-2023
15:27
ALSHS
Ser



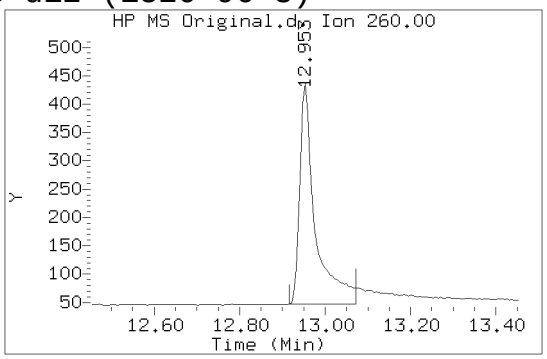
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\16.D
Inj Date : 28-AUG-2023 15:59
InstruID : SV6.i
LabSampID : LCSD1-199190

Perylene-d12 (1520-96-3)

Reason Code:

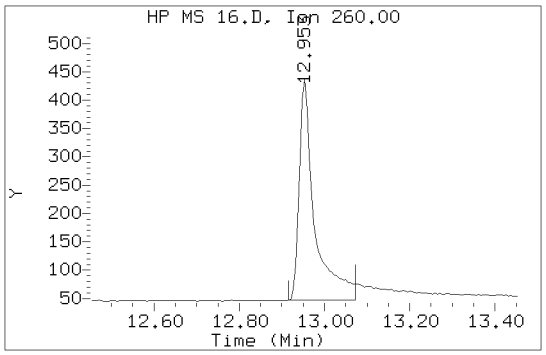
BEFORE

MASS
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AREA
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HEIGHT
389
28-Aug-2023
17:07
ALSHS
Server



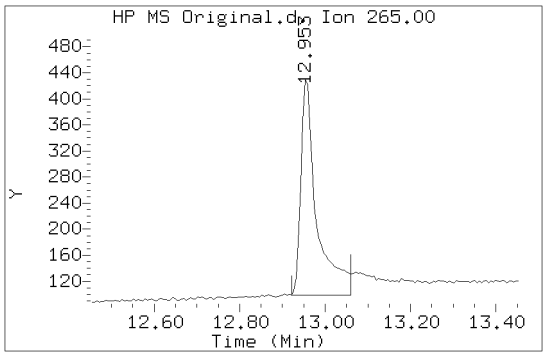
AFTER

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977
HEIGHT
389
29-Aug-2023
15:27
ALSHS
Ser



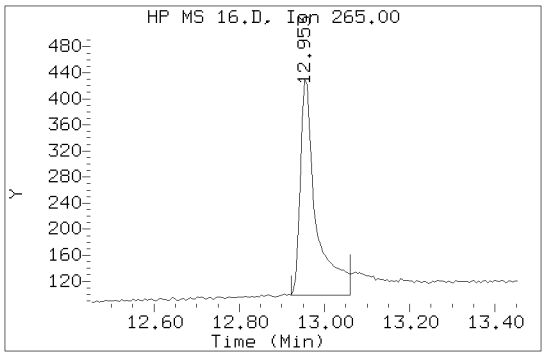
BEFORE

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849
HEIGHT
330
28-Aug-2023
17:07
ALSHS
Server



AFTER

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AREA
849
HEIGHT
330
29-Aug-2023
15:27
ALSHS
Ser

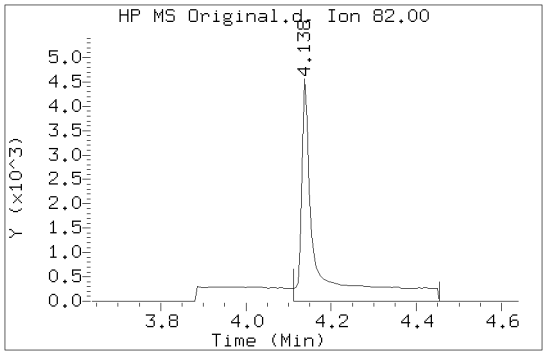


Nitrobenzene-d5 (4165-60-0)

Reason Code:

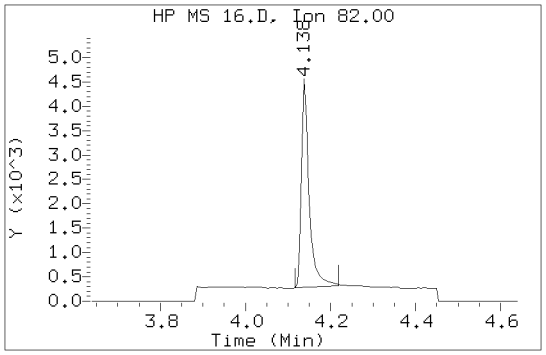
BEFORE

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AREA
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HEIGHT
4562
28-Aug-2023
17:07
ALSHS
Server



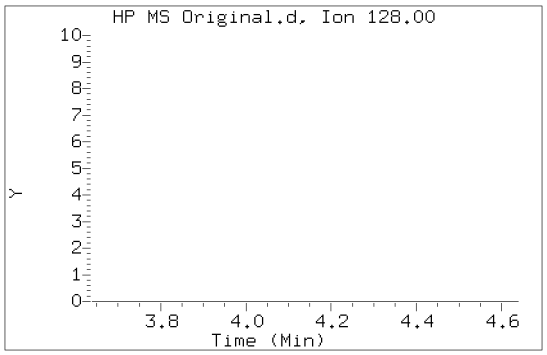
AFTER

MASS
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AREA
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HEIGHT
4273
29-Aug-2023
15:27
ALSHS
Ser



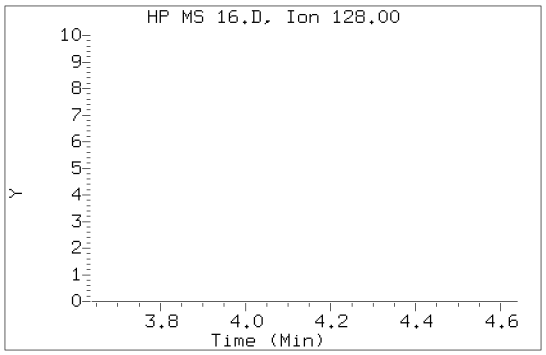
BEFORE

MASS
128
AREA
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HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
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AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser



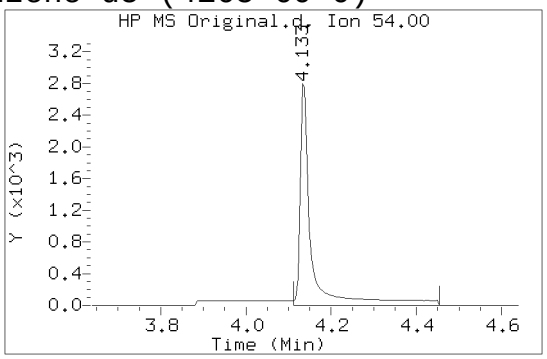
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Inj Date : 28-AUG-2023 15:59
InstruID : SV6.i
LabSampID : LCSD1-199190

Nitrobenzene-d5 (4165-60-0)

Reason Code:

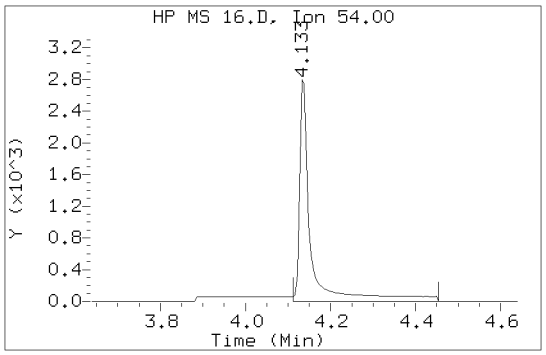
BEFORE

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AREA
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2798
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
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29-Aug-2023
15:27
ALSHS
Ser

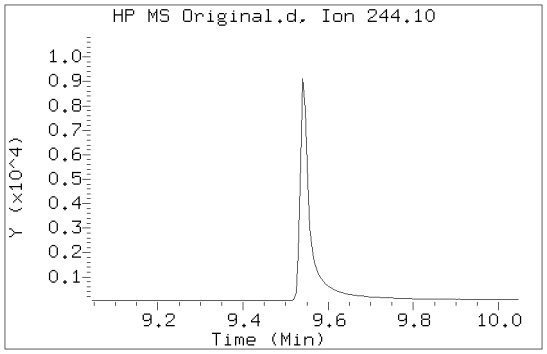


4-Terphenyl-d14 (1718-51-0)

Reason Code:

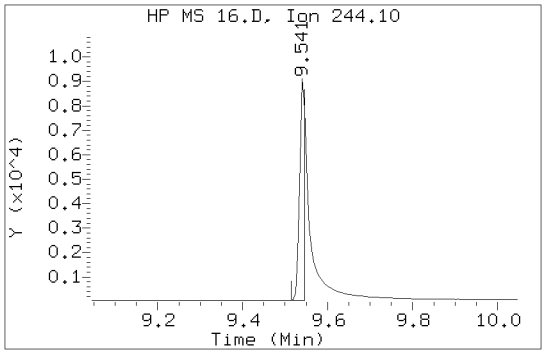
BEFORE

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HEIGHT
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28-Aug-2023
17:07
ALSHS
Server



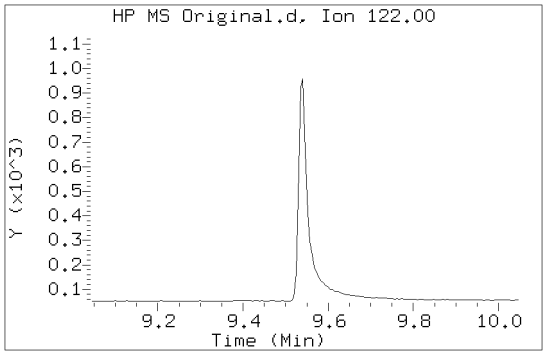
AFTER

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29-Aug-2023
15:27
ALSHS
Ser



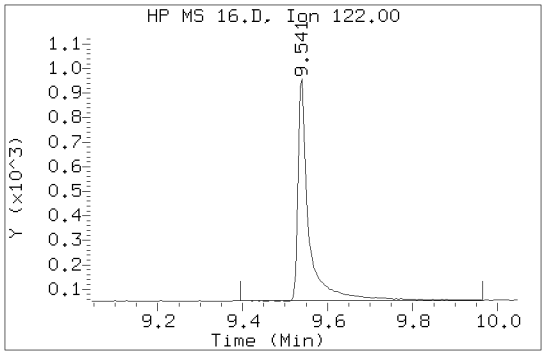
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28-Aug-2023
17:07
ALSHS
Server



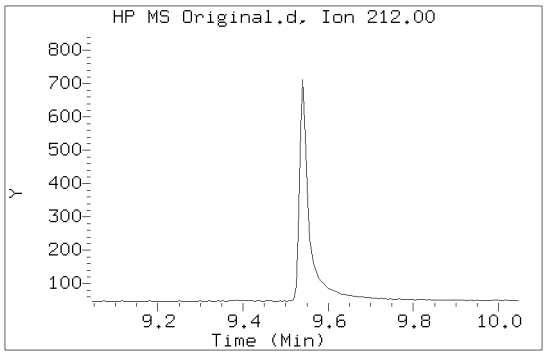
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29-Aug-2023
15:27
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Ser



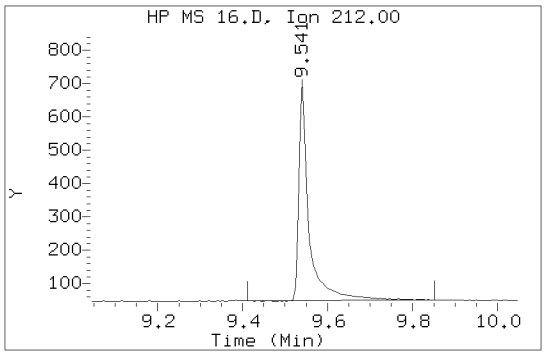
BEFORE

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28-Aug-2023
17:07
ALSHS
Server



AFTER

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AREA
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HEIGHT
662
29-Aug-2023
15:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\20.D
Lab Smp Id: HS23081040-01
Inj Date : 28-AUG-2023 17:11
Operator : LG Inst ID: SV6.i
Smp Info : HS23081040-01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 14:45 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 20
Dil Factor: 1.00000
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	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	3.665	3.665	(1.000)	3662	0.10000	(a)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	13039	0.10000	
$ 33 Nitrobenzene-d5	82	4.138	4.138	(0.864)	3170	0.08002	0.08002(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	7389	0.10000	
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	7506	0.09934	0.09934
* 126 Phenanthrene-d10	188	7.937	7.937	(1.000)	13310	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	12708	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.540	9.546	(0.881)	9199	0.09812	0.09812(M)
* 198 Perylene-d12	264	12.953	12.953	(1.000)	5547	0.10000	(M)
1 1,4-Dioxane	58	1.886	1.886	(0.515)	17998	1.44852	1.448(AQ)

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.

01250691

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\20.D

Date : 28-AUG-2023 17:11

Client ID:

Instrument: SV6.i

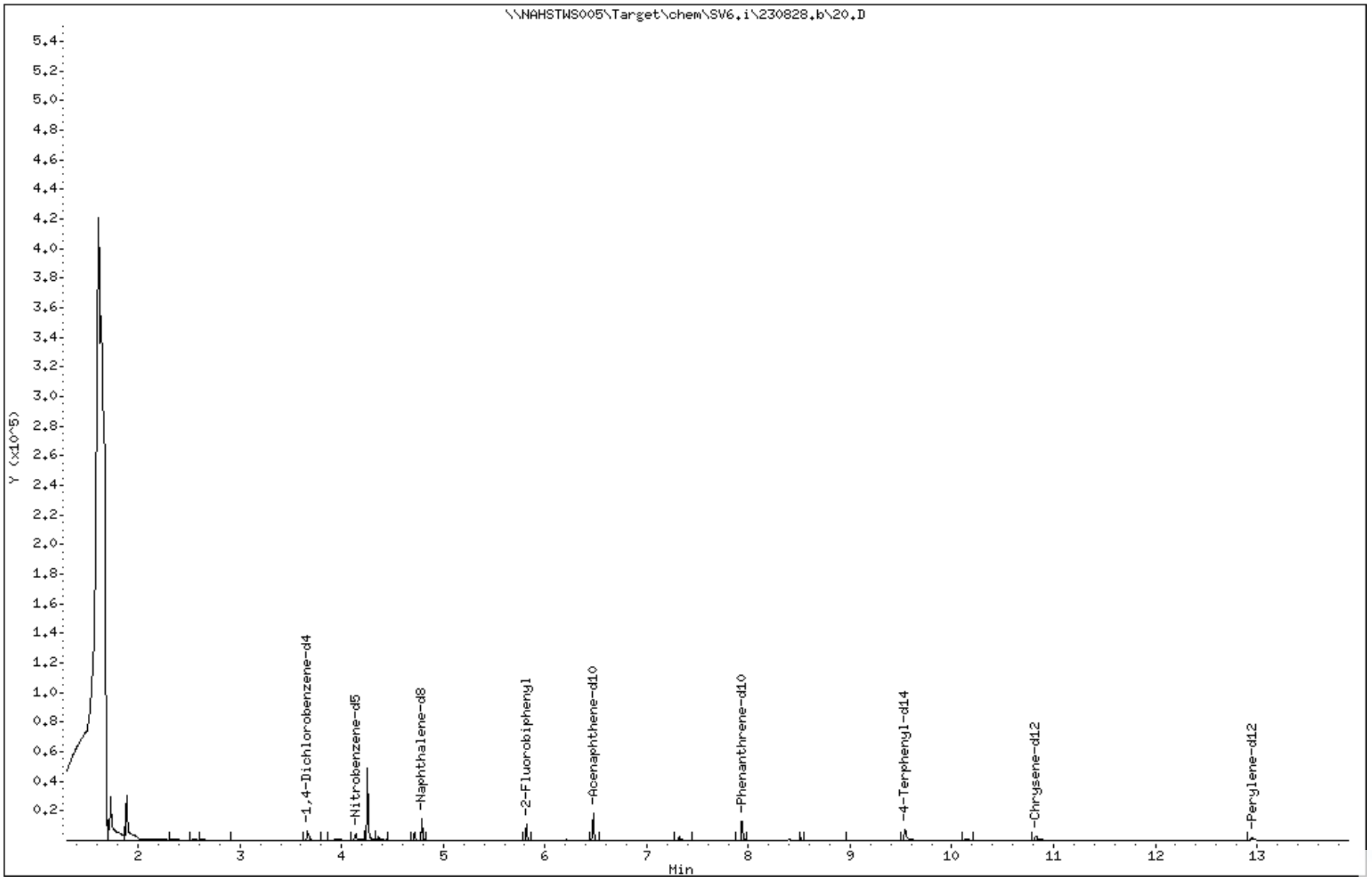
Sample Info: HS23081040-01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\20.D

Date : 28-AUG-2023 17:11

Client ID:

Instrument: SV6.i

Sample Info: HS23081040-01

Purge Volume: 1000.0

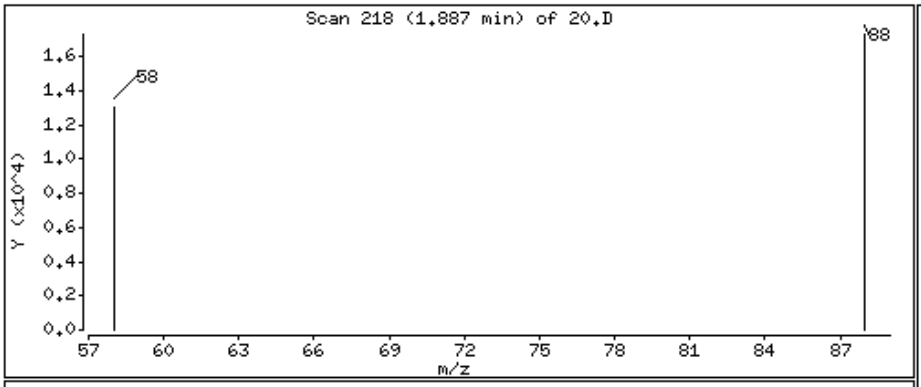
Operator: LG

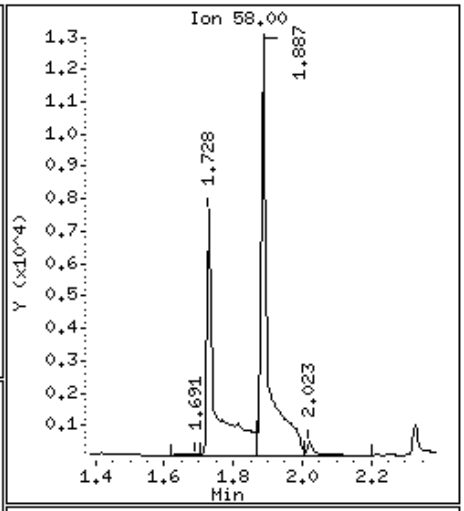
Column phase: RTX-5SIL MS

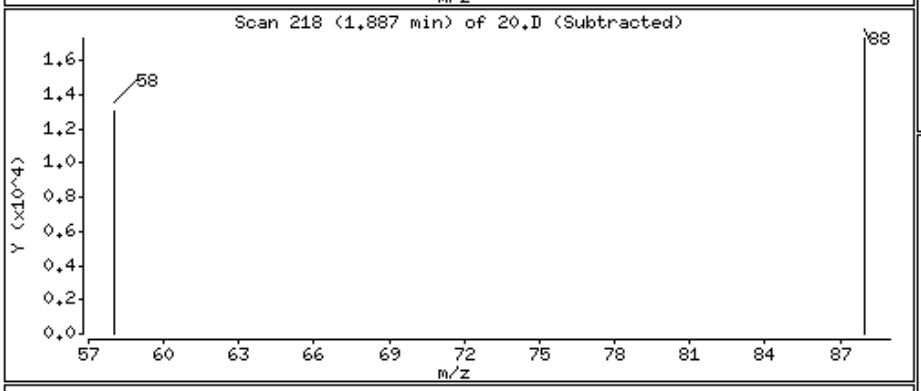
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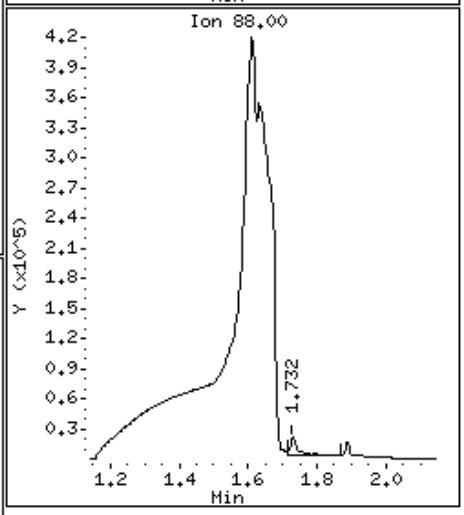
1 1,4-Dioxane

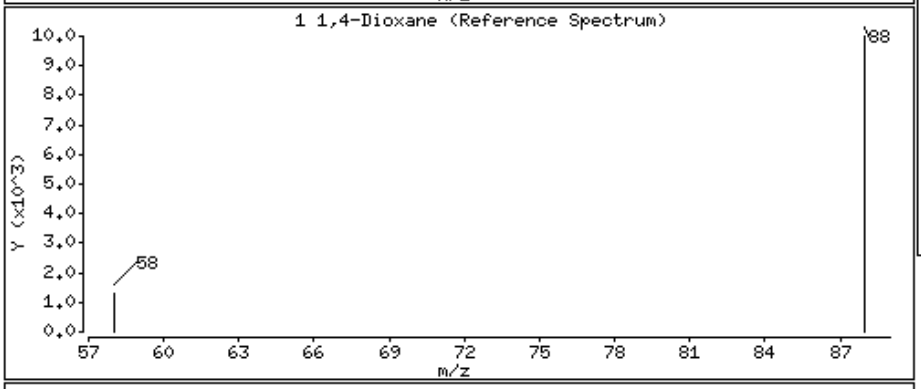
Concentration: 1.448 ug/L

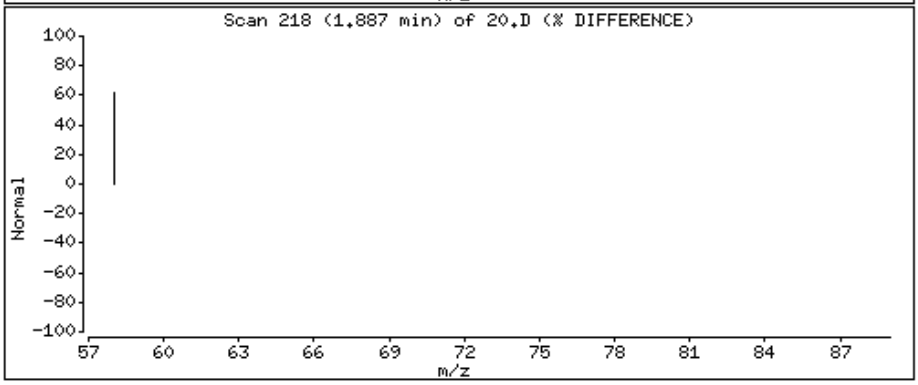












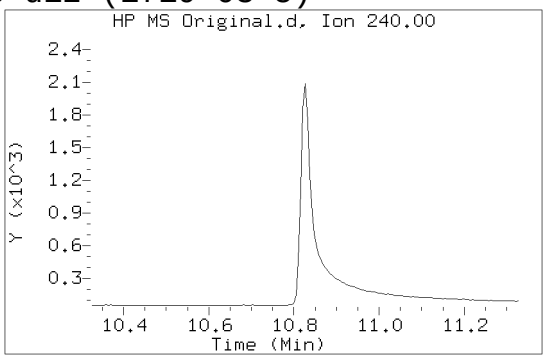
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Inj Date : 28-AUG-2023 17:11
InstruID : SV6.i
LabSampID : HS23081040-01

Chrysene-d12 (1719-03-5)

Reason Code:

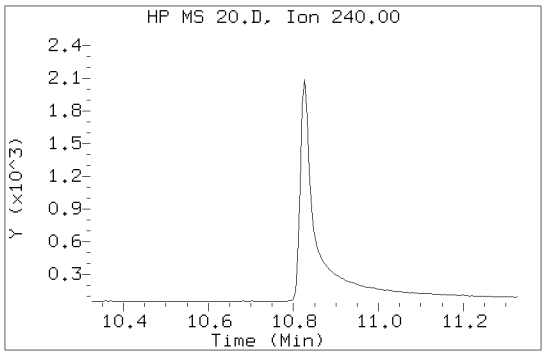
BEFORE

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28-Aug-2023
19:42
ALSHS
Server



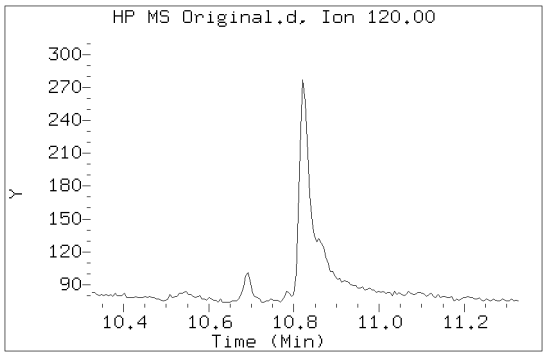
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15:27
ALSHS
Ser



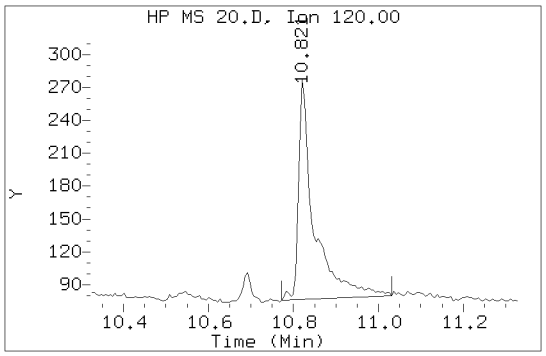
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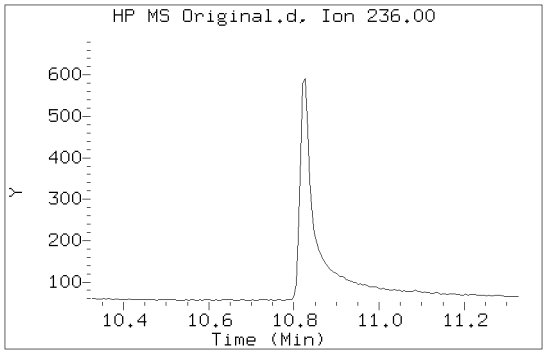
AFTER

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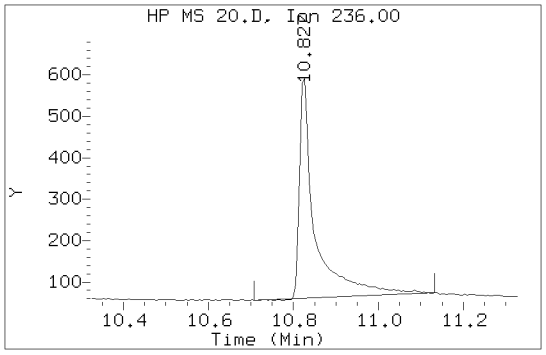
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AFTER

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29-Aug-2023
15:27
ALSHS
Ser

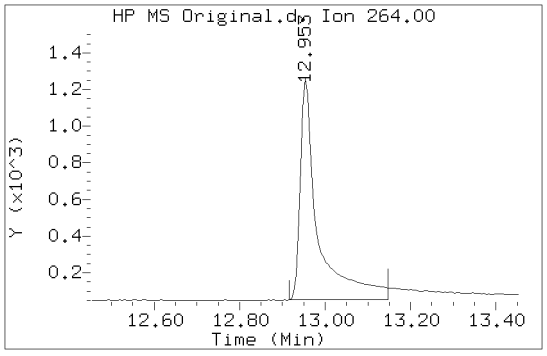


Perylene-d12 (1520-96-3)

Reason Code:

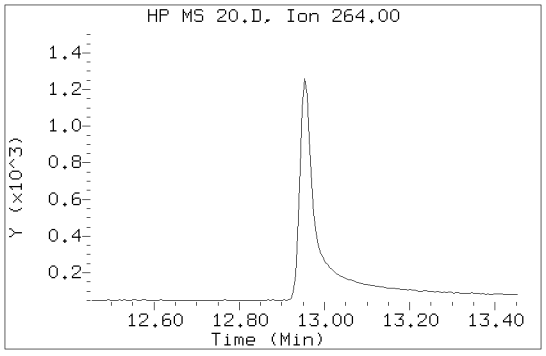
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28-Aug-2023
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AFTER

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29-Aug-2023
15:27
ALSHS
Ser

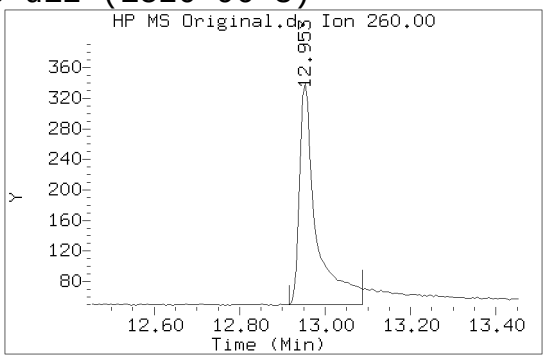


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Inj Date : 28-AUG-2023 17:11
InstruID : SV6.i
LabSampID : HS23081040-01

Perylene-d12 (1520-96-3)

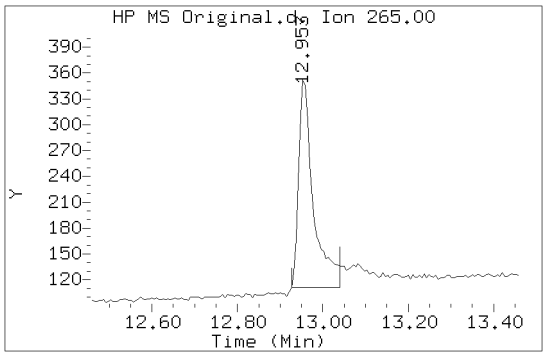
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ALSHS
Server



BEFORE

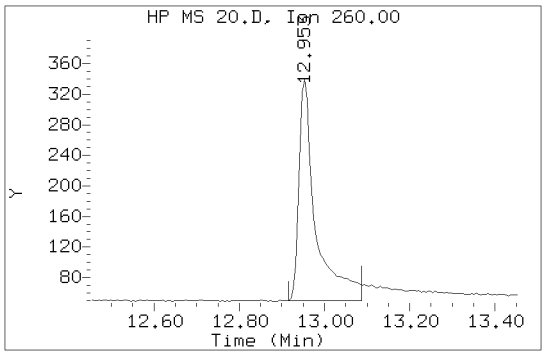
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19:42
ALSHS
Server



Reason Code:

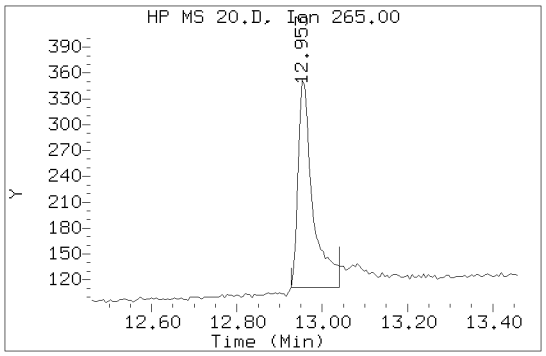
AFTER

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HEIGHT
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29-Aug-2023
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ALSHS
Ser



AFTER

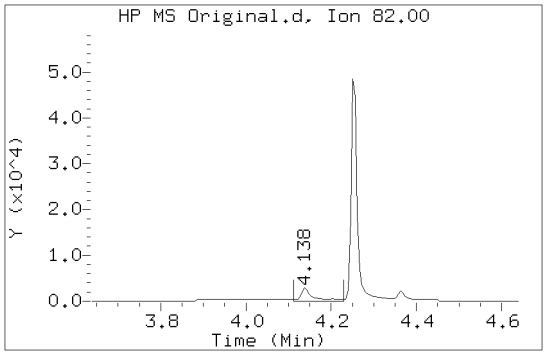
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578
HEIGHT
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29-Aug-2023
15:27
ALSHS
Ser



Nitrobenzene-d5 (4165-60-0)

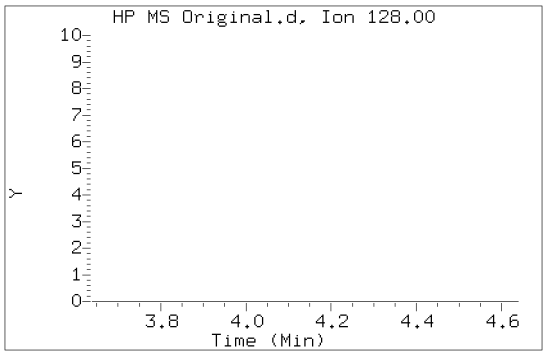
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28-Aug-2023
19:42
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Server



BEFORE

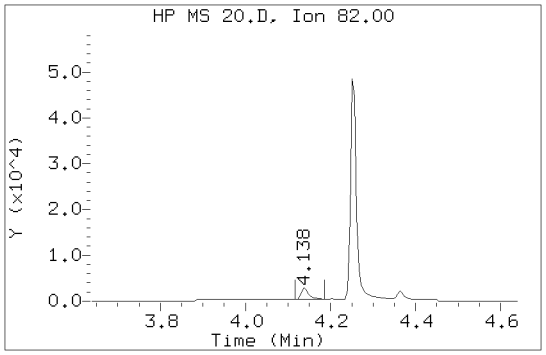
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ALSHS
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Reason Code:

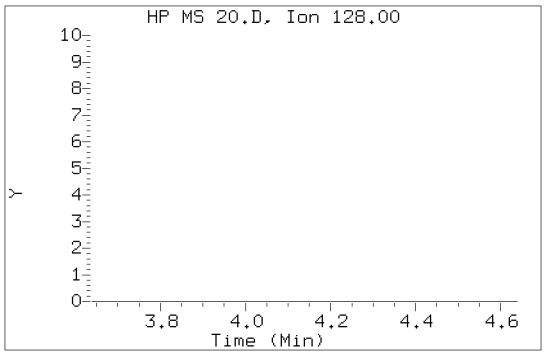
AFTER

MASS
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AREA
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HEIGHT
2514
29-Aug-2023
15:27
ALSHS
Ser



AFTER

MASS
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29-Aug-2023
15:27
ALSHS
Ser



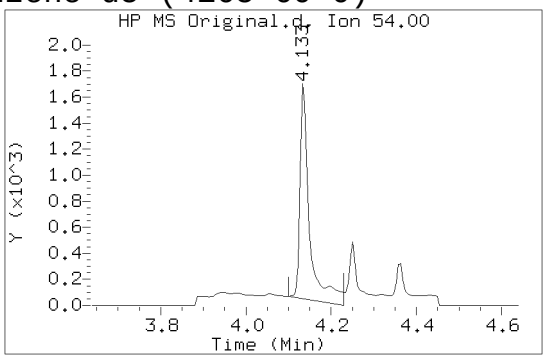
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\20.D
Inj Date : 28-AUG-2023 17:11
InstruID : SV6.i
LabSampID : HS23081040-01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

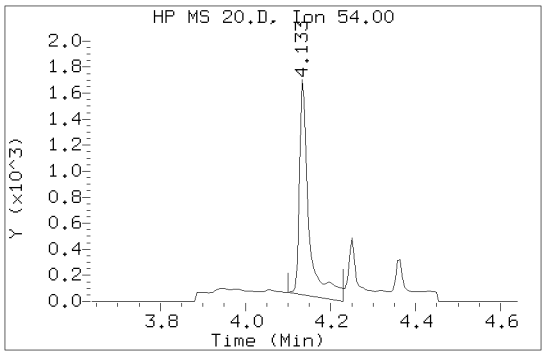
BEFORE

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HEIGHT
1649
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
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AREA
2577
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1649
29-Aug-2023
15:27
ALSHS
Ser

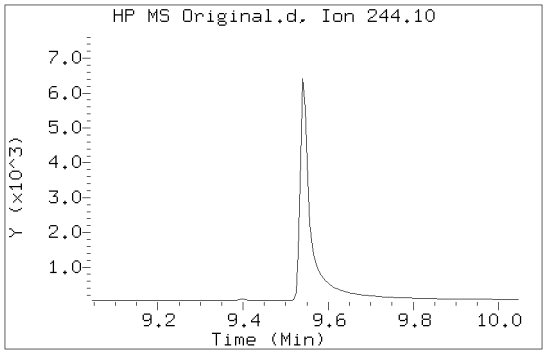


4-Terphenyl-d14 (1718-51-0)

Reason Code:

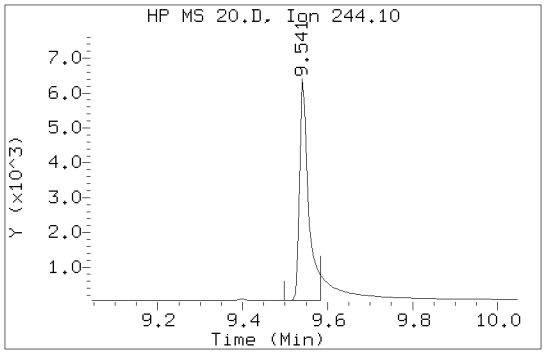
BEFORE

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28-Aug-2023
19:42
ALSHS
Server



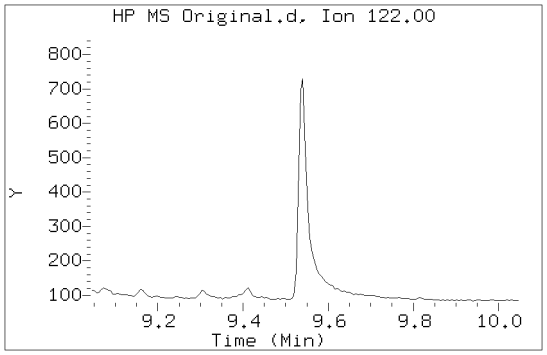
AFTER

MASS
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HEIGHT
6356
29-Aug-2023
15:27
ALSHS
Ser



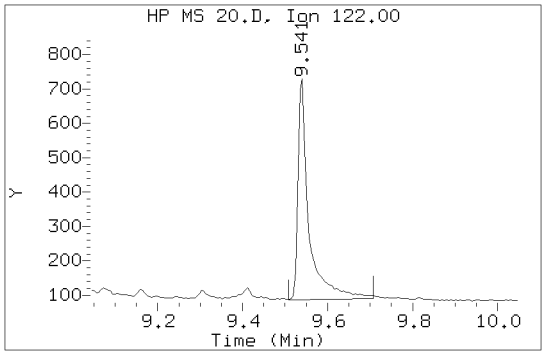
BEFORE

MASS
122
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



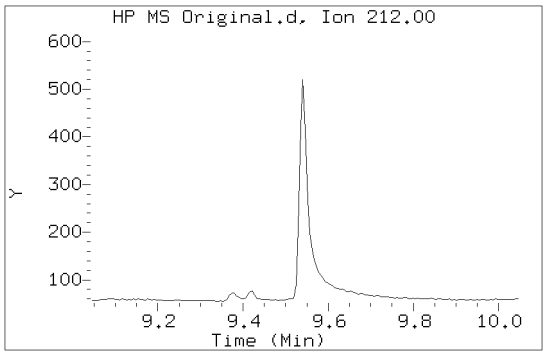
AFTER

MASS
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AREA
1148
HEIGHT
641
29-Aug-2023
15:27
ALSHS
Ser



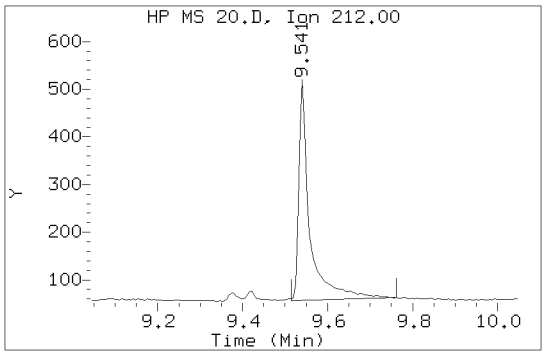
BEFORE

MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
212
AREA
811
HEIGHT
462
29-Aug-2023
15:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\21.D Page 1
Report Date: 29-Aug-2023 15:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\21.D
Lab Smp Id: HS23081040-01
Inj Date : 28-AUG-2023 17:29
Operator : LG Inst ID: SV6.i
Smp Info : HS23081040-01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 14:45 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 21
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	3.665	3.665	(1.000)	4710	0.10000	(a)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	14626	0.10000	
$ 33 Nitrobenzene-d5	82	4.143	4.138	(0.865)	303	0.00682	0.06818(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	11018	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	901	0.00800	0.07997(M)
* 126 Phenanthrene-d10	188	7.937	7.937	(1.000)	14744	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	11918	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.545	9.546	(0.882)	704	0.00801	0.08007(M)
* 198 Perylene-d12	264	12.953	12.953	(1.000)	4828	0.10000	(M)
1 1,4-Dioxane	58	1.893	1.886	(0.517)	2121	0.13272	1.327(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.

01250697

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\21.D

Date : 28-AUG-2023 17:29

Client ID:

Instrument: SV6.i

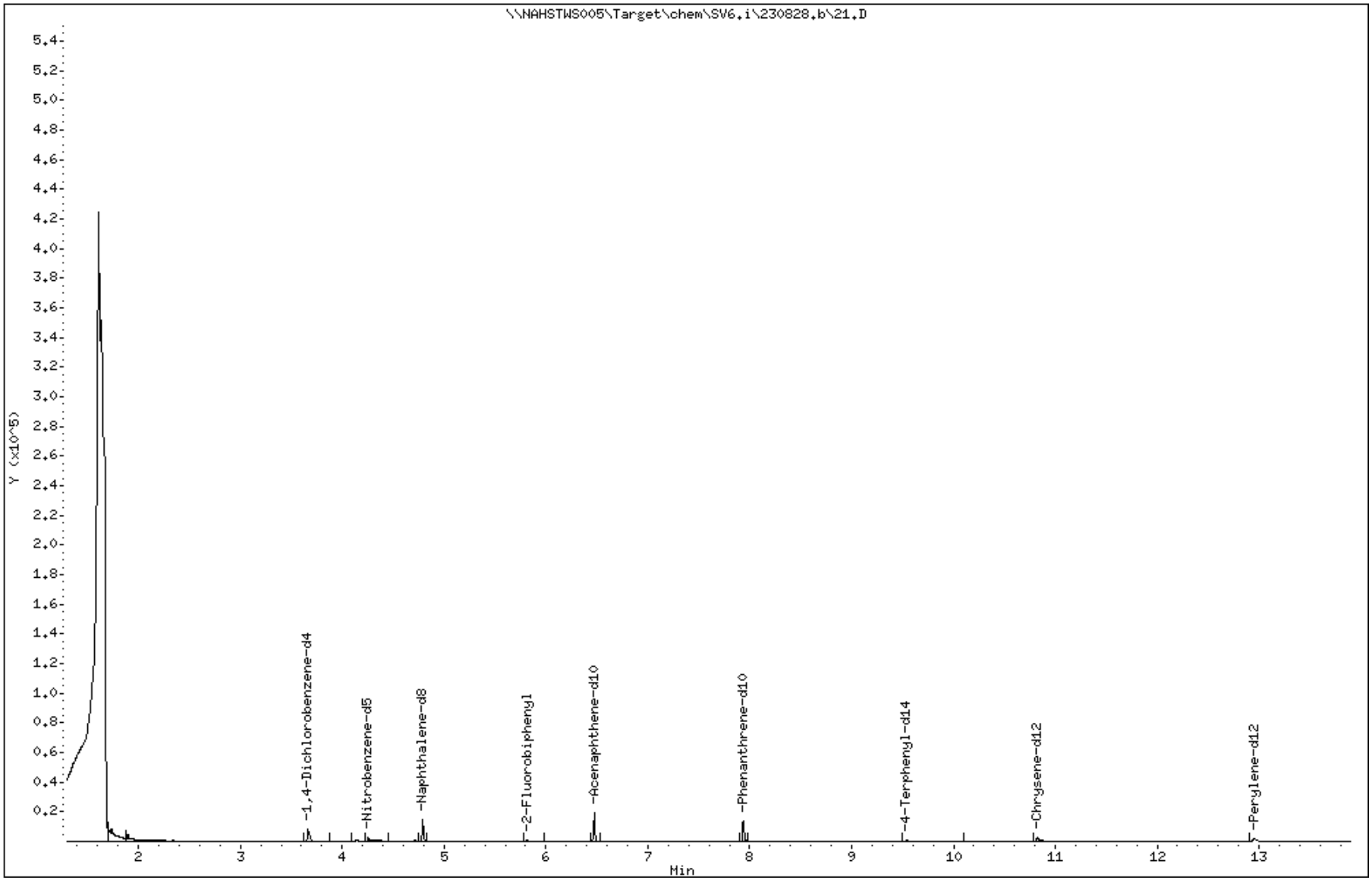
Sample Info: HS23081040-01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\21.D

Date : 28-AUG-2023 17:29

Client ID:

Instrument: SV6.i

Sample Info: HS23081040-01

Purge Volume: 1000.0

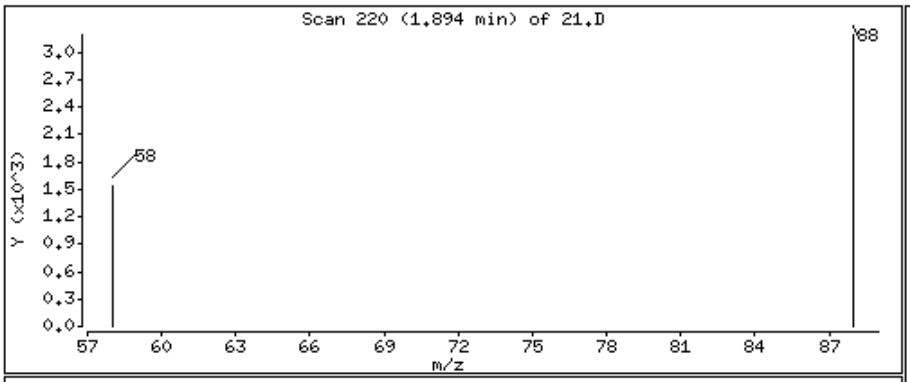
Operator: LG

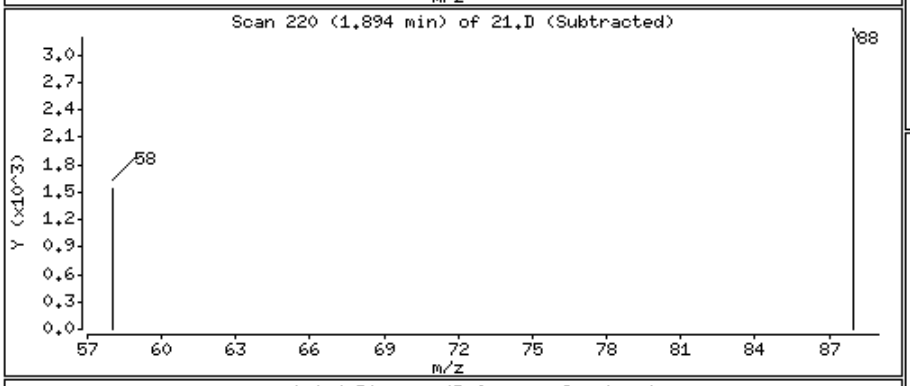
Column phase: RTX-5SIL MS

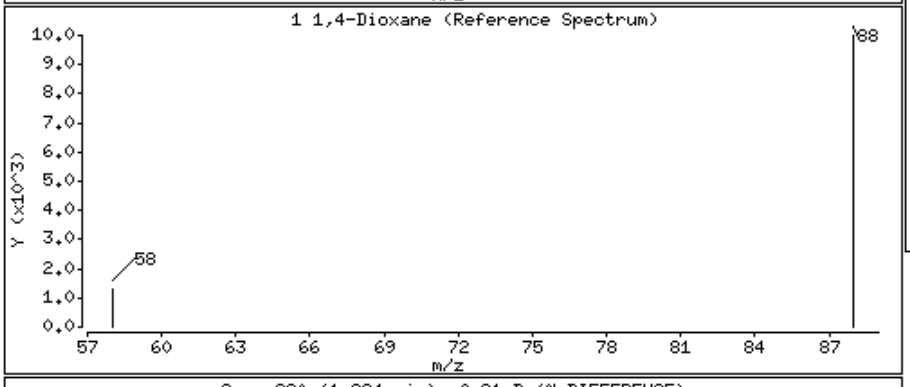
Column diameter: 0.28

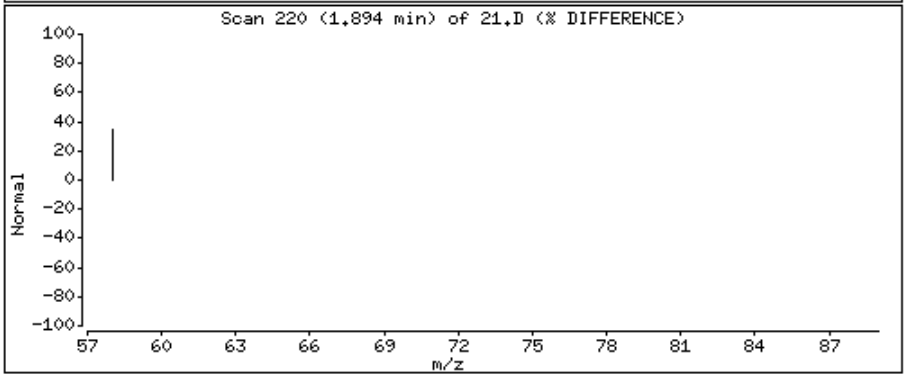
1 1,4-Dioxane

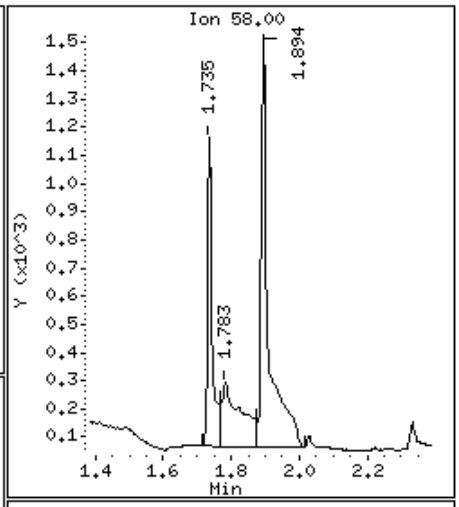
Concentration: 1.327 ug/L

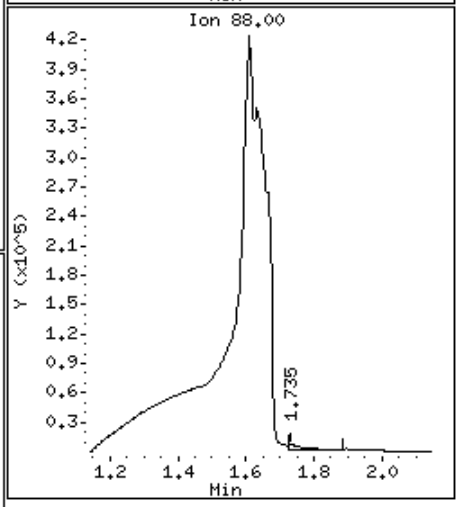












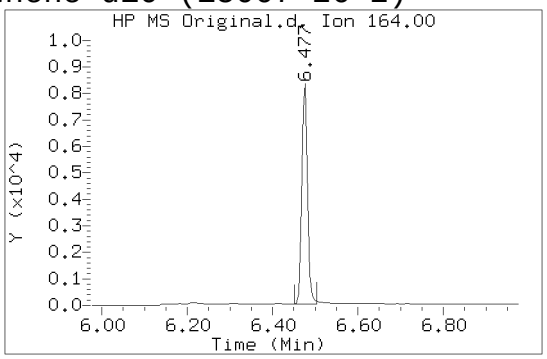
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\21.D
Inj Date : 28-AUG-2023 17:29
InstruID : SV6.i
LabSampID : HS23081040-01

Acenaphthene-d10 (15067-26-2)

Reason Code:

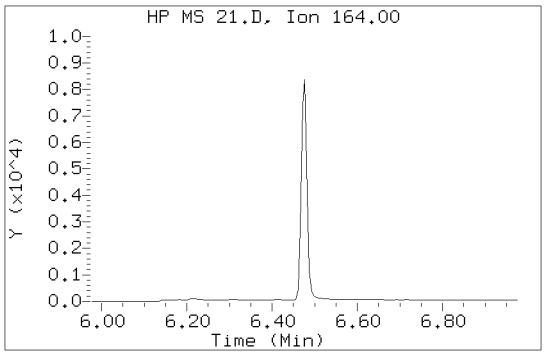
BEFORE

MASS
164
AREA
7848
HEIGHT
8311
28-Aug-2023
19:42
ALSHS
Server



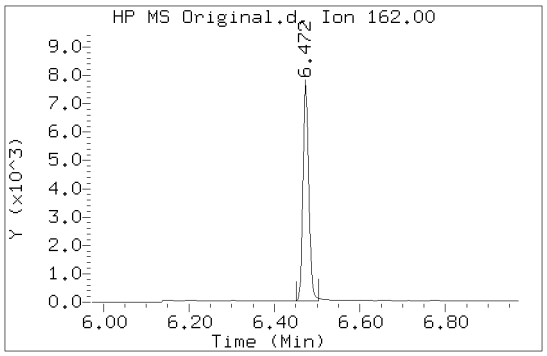
AFTER

MASS
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AREA
11018
HEIGHT
8368
29-Aug-2023
15:27
ALSHS
Ser



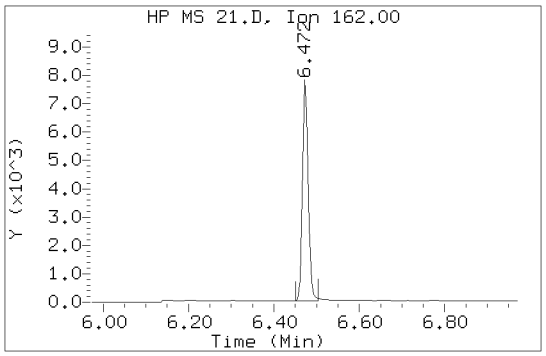
BEFORE

MASS
162
AREA
7274
HEIGHT
7787
28-Aug-2023
19:42
ALSHS
Server



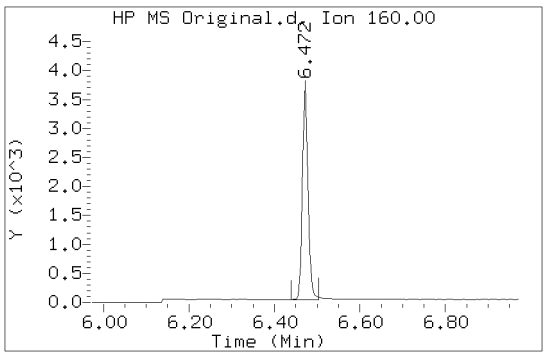
AFTER

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HEIGHT
7787
29-Aug-2023
15:27
ALSHS
Ser



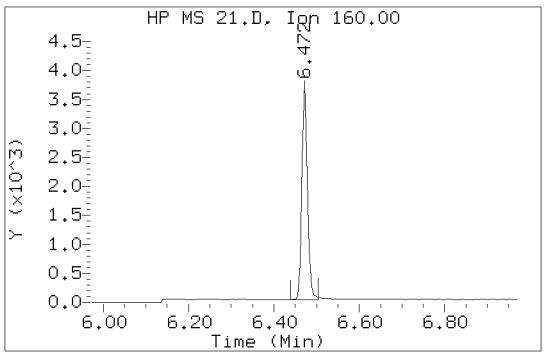
BEFORE

MASS
160
AREA
3410
HEIGHT
3776
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
160
AREA
3410
HEIGHT
3776
29-Aug-2023
15:27
ALSHS
Ser

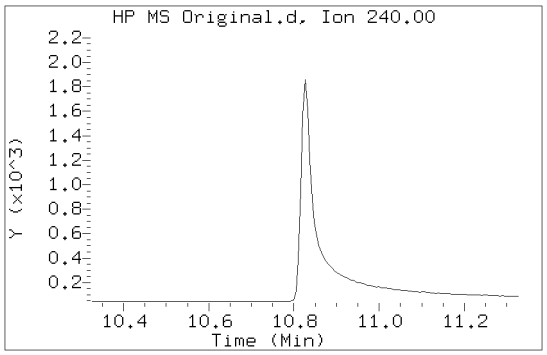


Chrysene-d12 (1719-03-5)

Reason Code:

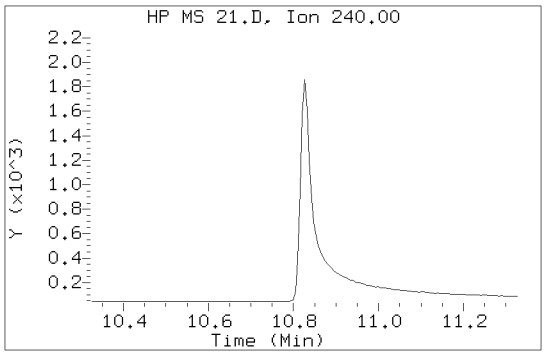
BEFORE

MASS
240
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
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AREA
11918
HEIGHT
1858
29-Aug-2023
15:27
ALSHS
Ser



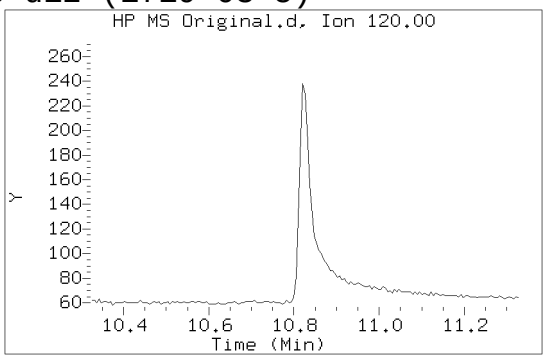
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\21.D
Inj Date : 28-AUG-2023 17:29
InstruID : SV6.i
LabSampID : HS23081040-01

Chrysene-d12 (1719-03-5)

Reason Code:

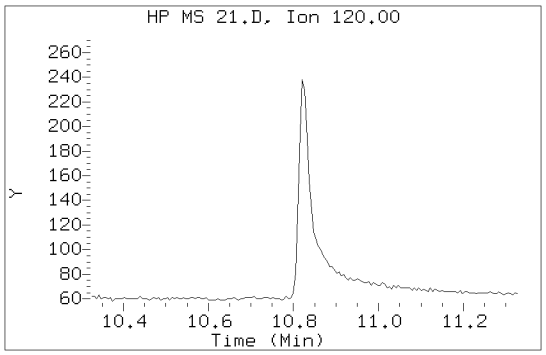
BEFORE

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AREA
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HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



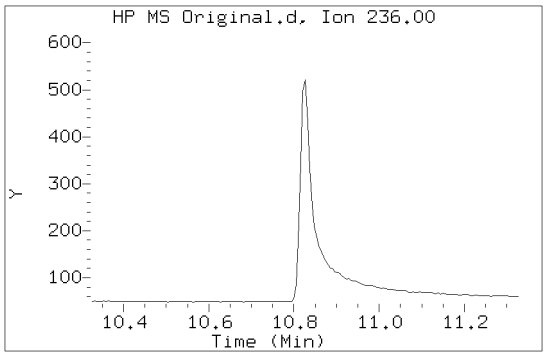
AFTER

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AREA
547
HEIGHT
176
29-Aug-2023
15:27
ALSHS
Ser



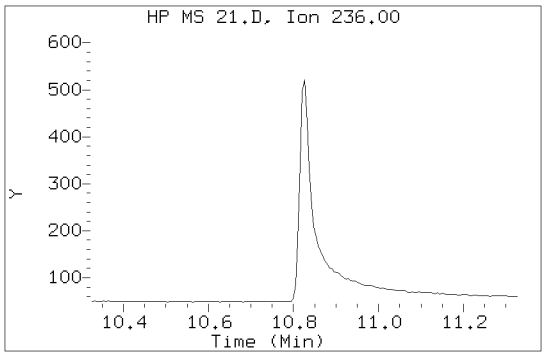
BEFORE

MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
236
AREA
1620
HEIGHT
471
29-Aug-2023
15:27
ALSHS
Ser

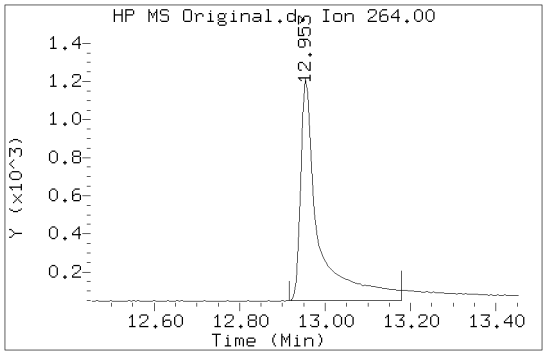


Perylene-d12 (1520-96-3)

Reason Code:

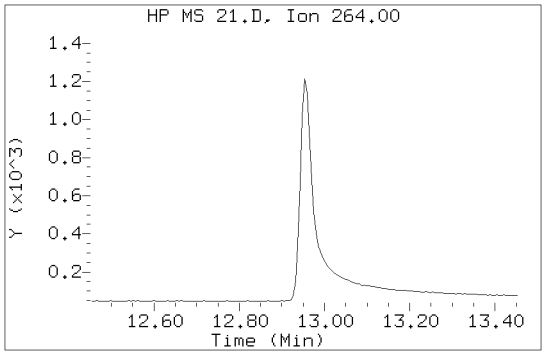
BEFORE

MASS
264
AREA
3422
HEIGHT
1164
28-Aug-2023
19:42
ALSHS
Server



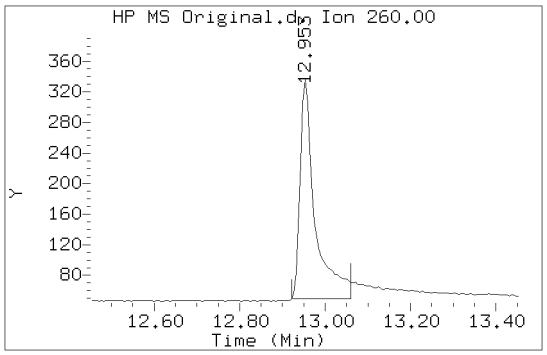
AFTER

MASS
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AREA
4828
HEIGHT
1166
29-Aug-2023
15:27
ALSHS
Ser



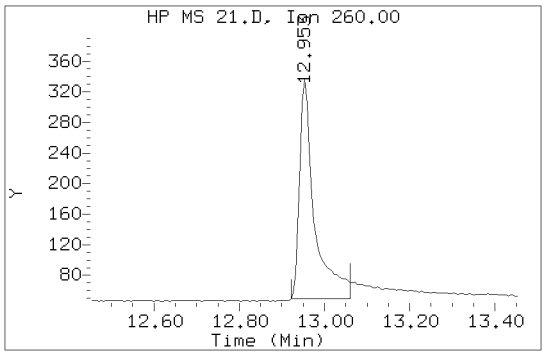
BEFORE

MASS
260
AREA
701
HEIGHT
287
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
260
AREA
701
HEIGHT
287
29-Aug-2023
15:27
ALSHS
Ser



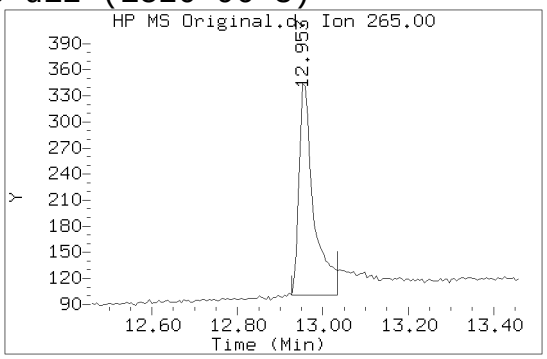
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\21.D
Inj Date : 28-AUG-2023 17:29
InstruID : SV6.i
LabSampID : HS23081040-01

Perylene-d12 (1520-96-3)

Reason Code:

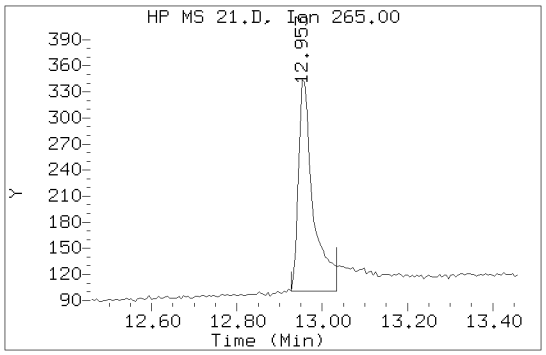
BEFORE

MASS
265
AREA
583
HEIGHT
243
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
265
AREA
583
HEIGHT
243
29-Aug-2023
15:27
ALSHS
Ser

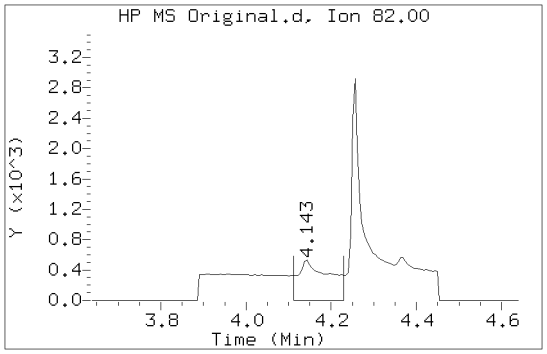


Nitrobenzene-d5 (4165-60-0)

Reason Code:

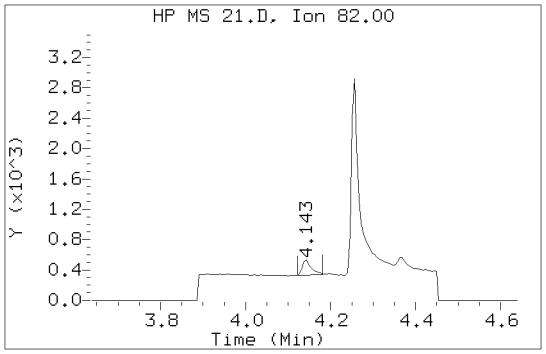
BEFORE

MASS
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AREA
2786
HEIGHT
530
28-Aug-2023
19:42
ALSHS
Server



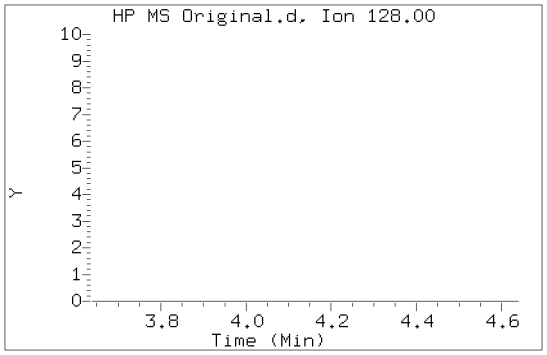
AFTER

MASS
82
AREA
303
HEIGHT
199
29-Aug-2023
15:27
ALSHS
Ser



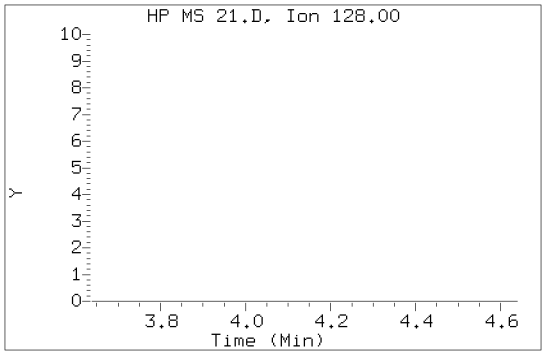
BEFORE

MASS
128
AREA
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HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



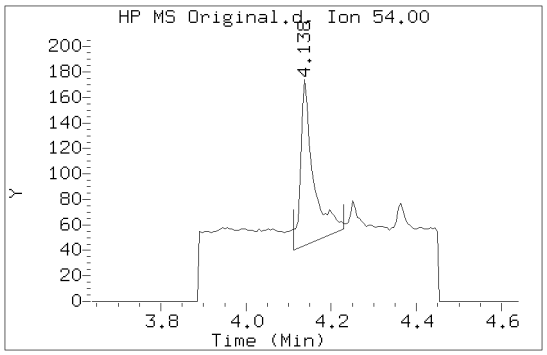
AFTER

MASS
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AREA
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29-Aug-2023
15:27
ALSHS
Ser



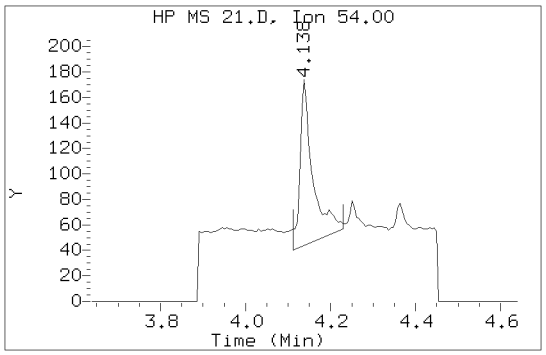
BEFORE

MASS
54
AREA
275
HEIGHT
130
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
54
AREA
275
HEIGHT
130
29-Aug-2023
15:27
ALSHS
Ser



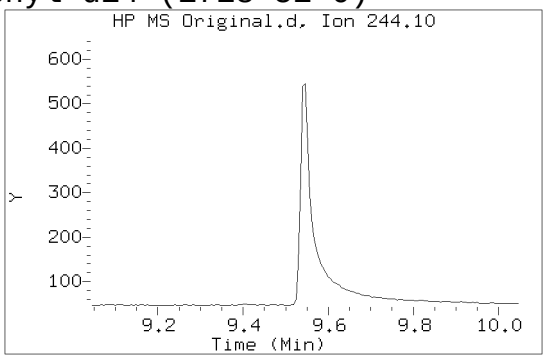
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\21.D
Inj Date : 28-AUG-2023 17:29
InstruID : SV6.i
LabSampID : HS23081040-01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

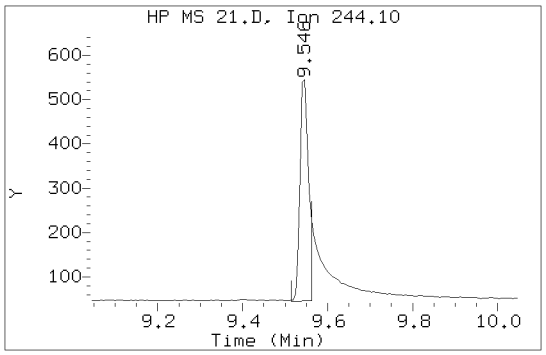
BEFORE

MASS
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AREA
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HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



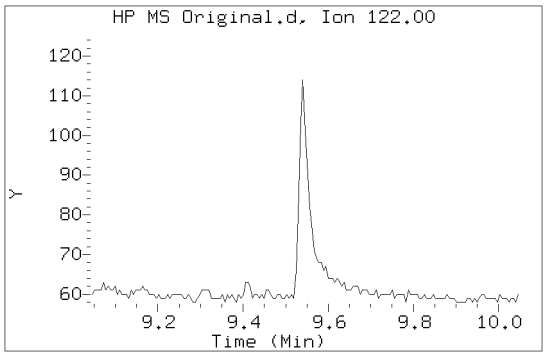
AFTER

MASS
244.1
AREA
704
HEIGHT
499
29-Aug-2023
15:27
ALSHS
Ser



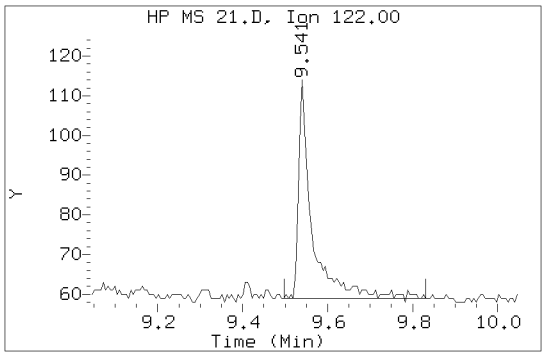
BEFORE

MASS
122
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



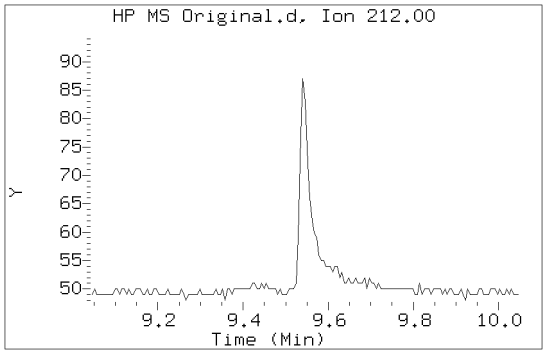
AFTER

MASS
122
AREA
121
HEIGHT
55
29-Aug-2023
15:27
ALSHS
Ser



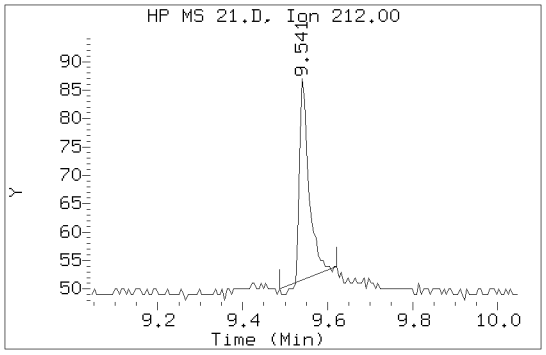
BEFORE

MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
212
AREA
51
HEIGHT
35
29-Aug-2023
15:27
ALSHS
Ser

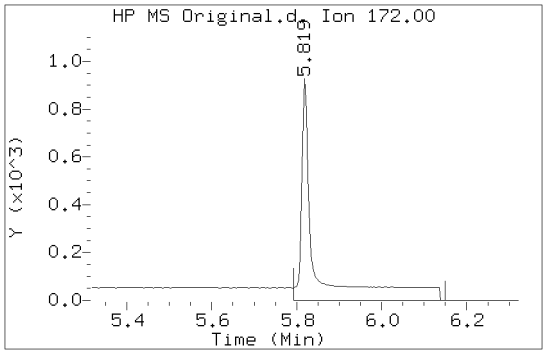


2-Fluorobiphenyl (321-60-8)

Reason Code:

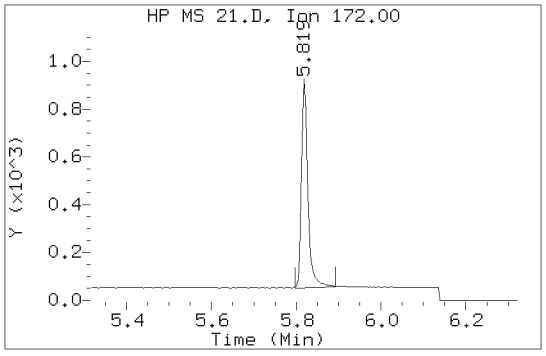
BEFORE

MASS
172
AREA
2054
HEIGHT
927
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
172
AREA
901
HEIGHT
873
29-Aug-2023
15:27
ALSHS
Ser



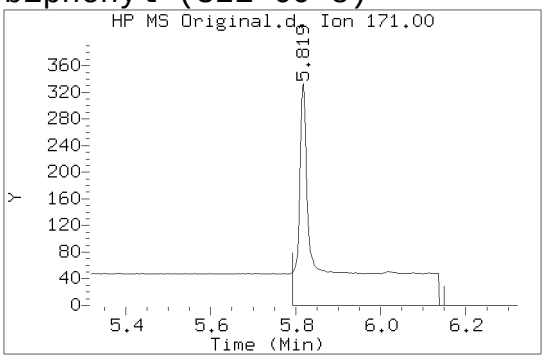
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\21.D
Inj Date : 28-AUG-2023 17:29
InstruID : SV6.i
LabSampID : HS23081040-01

2-Fluorobiphenyl (321-60-8)

Reason Code:

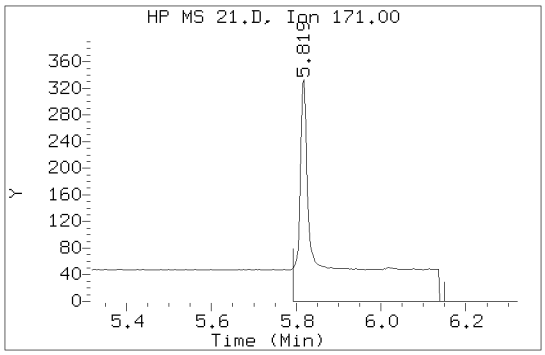
BEFORE

MASS
171
AREA
1327
HEIGHT
333
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
171
AREA
1327
HEIGHT
333
29-Aug-2023
15:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Lab Smp Id: 1 4DX-CCV END Client Smp ID: 1 4DX-CCV END
Inj Date : 28-AUG-2023 18:23
Operator : LG Inst ID: SV6.i
Smp Info : 1 4DX-0.08;;
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 14:45 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
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	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	3.665	3.665	(1.000)	5653	0.10000	(a)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	19292	0.10000	
$ 33 Nitrobenzene-d5	82	4.138	4.138	(0.864)	4139	0.08000	0.07061(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	11012	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	8518	0.08000	0.07564(M)
* 126 Phenanthrene-d10	188	7.937	7.937	(1.000)	20302	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	10454	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.546	9.546	(0.882)	6715	0.08000	0.08706(M)
* 198 Perylene-d12	264	12.953	12.953	(1.000)	6283	0.10000	(M)
1 1,4-Dioxane	58	1.886	1.886	(0.515)	1390	0.08000	0.07247(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.

01250705

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D

Date : 28-AUG-2023 18:23

Client ID: 1 4DX-CCV END

Instrument: SV6.i

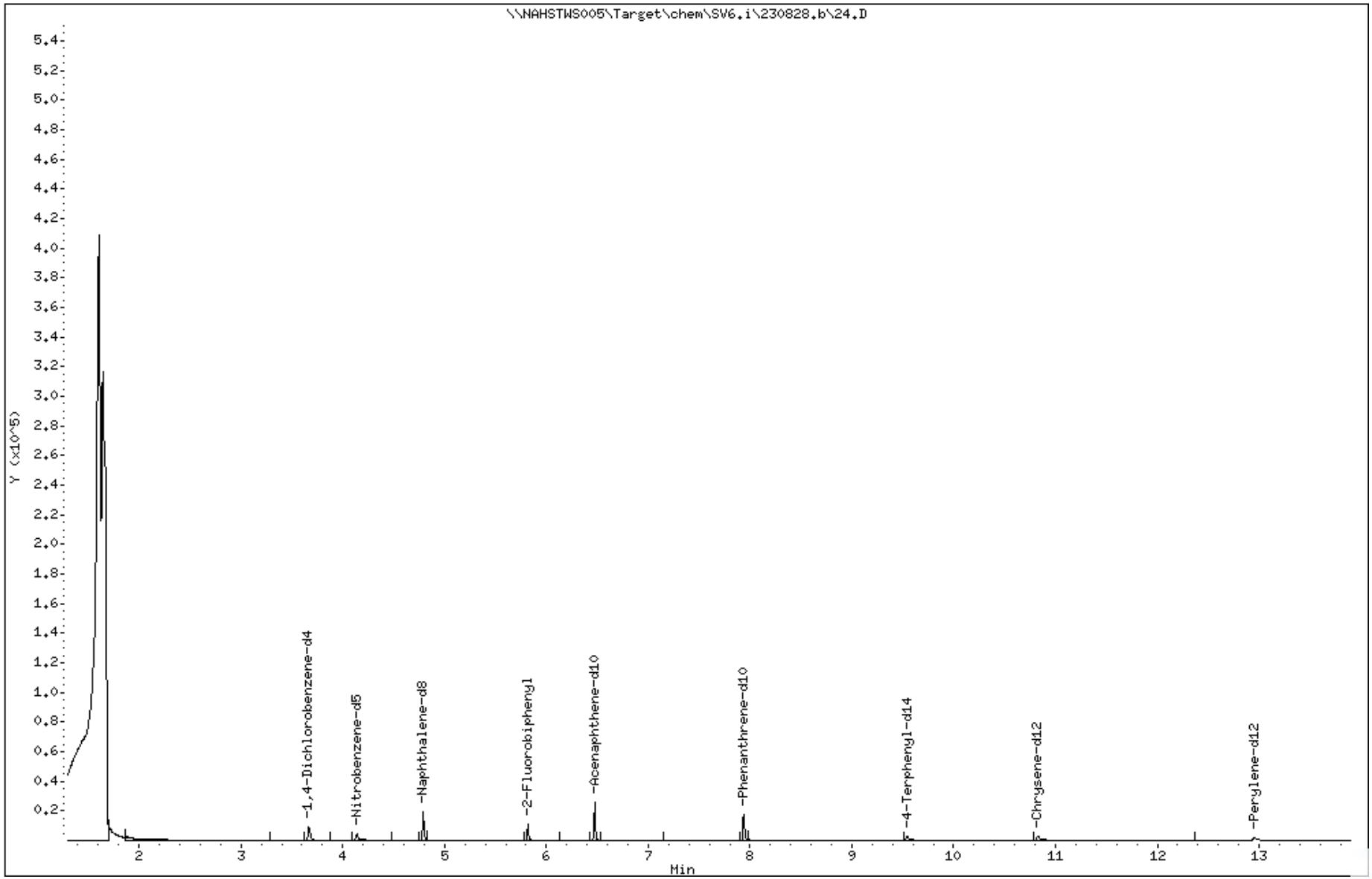
Sample Info: 1 4DX-0.08;;

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



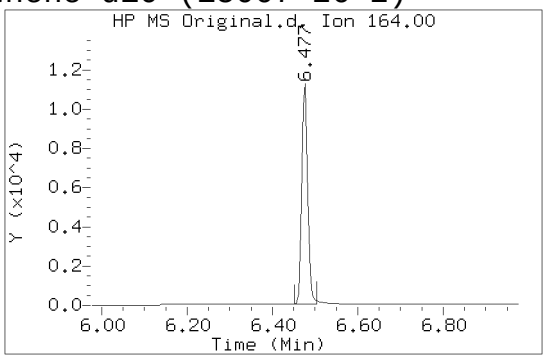
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Inj Date : 28-AUG-2023 18:23
InstruID : SV6.i
LabSampID : 1 4DX-CCV END

Acenaphthene-d10 (15067-26-2)

Reason Code:

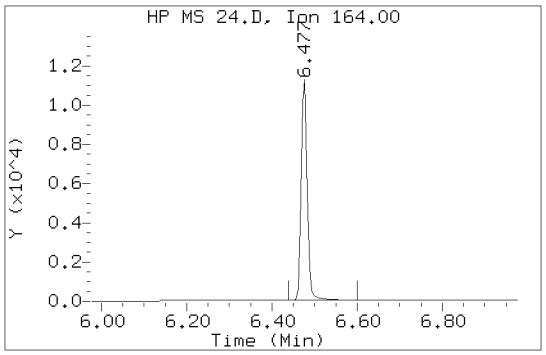
BEFORE

MASS
164
AREA
10844
HEIGHT
11240
28-Aug-2023
19:42
ALSHS
Server



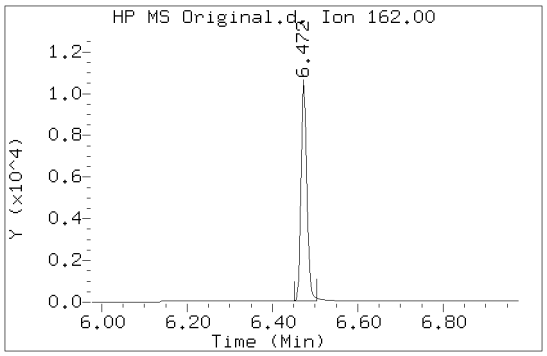
AFTER

MASS
164
AREA
11012
HEIGHT
11237
29-Aug-2023
14:45
ALSHS
Ser



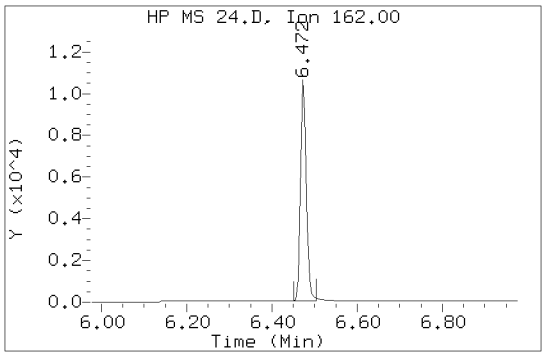
BEFORE

MASS
162
AREA
10082
HEIGHT
10608
28-Aug-2023
19:42
ALSHS
Server



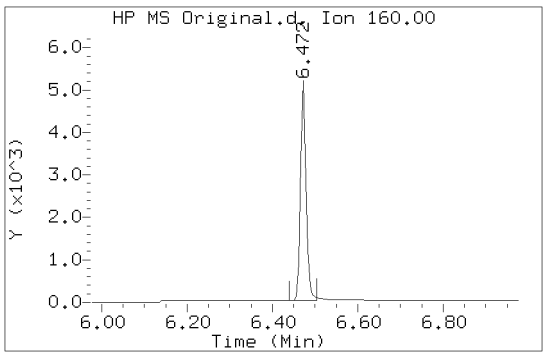
AFTER

MASS
162
AREA
10082
HEIGHT
10608
29-Aug-2023
14:45
ALSHS
Ser



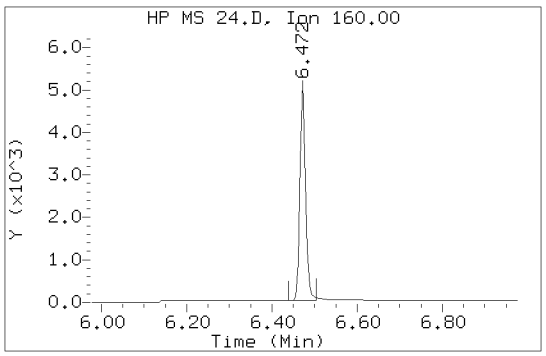
BEFORE

MASS
160
AREA
4703
HEIGHT
5170
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
160
AREA
4703
HEIGHT
5170
29-Aug-2023
14:45
ALSHS
Ser

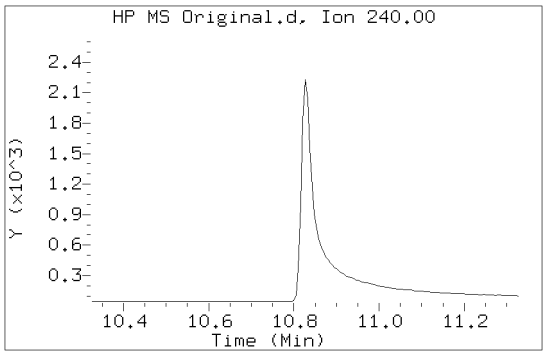


Chrysene-d12 (1719-03-5)

Reason Code:

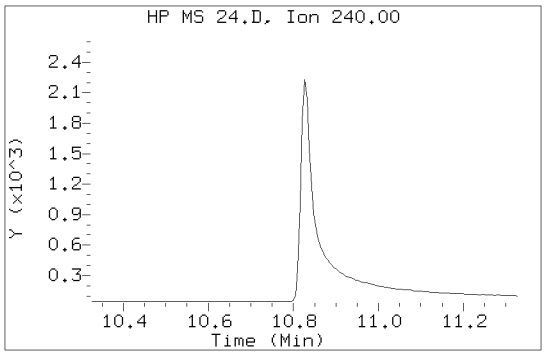
BEFORE

MASS
240
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
240
AREA
10454
HEIGHT
2196
29-Aug-2023
14:45
ALSHS
Ser



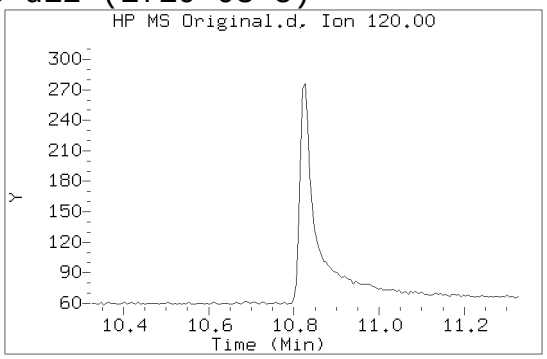
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Inj Date : 28-AUG-2023 18:23
InstruID : SV6.i
LabSampID : 1 4DX-CCV END

Chrysene-d12 (1719-03-5)

Reason Code:

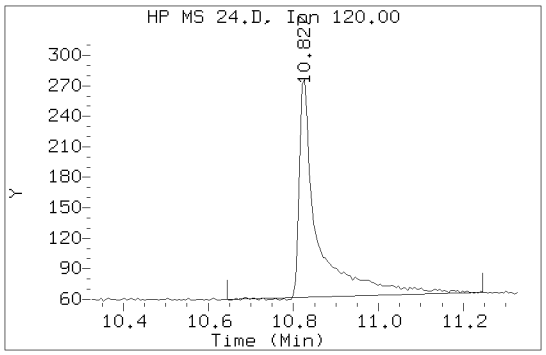
BEFORE

MASS
120
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



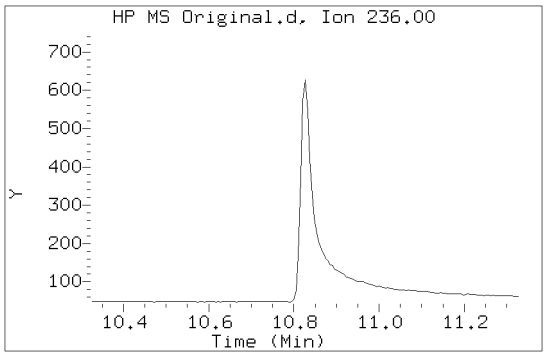
AFTER

MASS
120
AREA
634
HEIGHT
213
29-Aug-2023
14:45
ALSHS
Ser



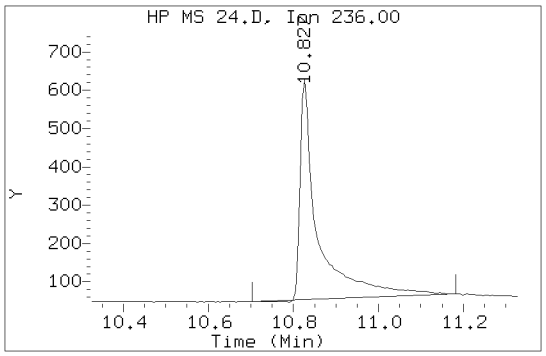
BEFORE

MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
236
AREA
1652
HEIGHT
573
29-Aug-2023
14:45
ALSHS
Ser

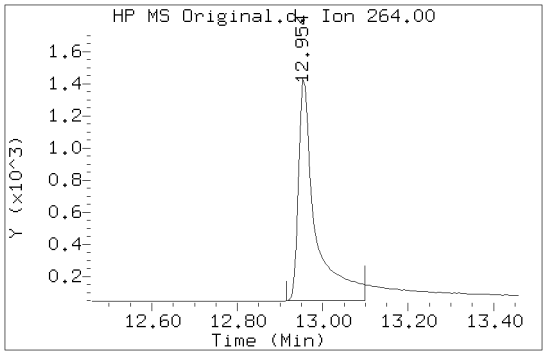


Perylene-d12 (1520-96-3)

Reason Code:

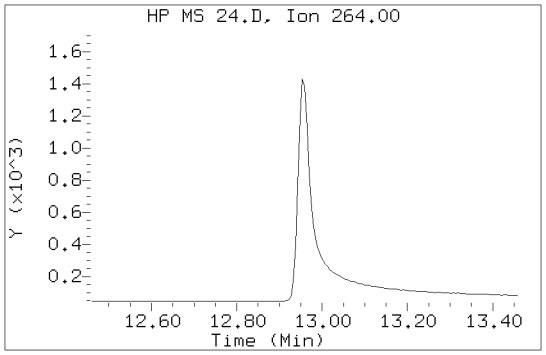
BEFORE

MASS
264
AREA
3803
HEIGHT
1381
28-Aug-2023
19:42
ALSHS
Server



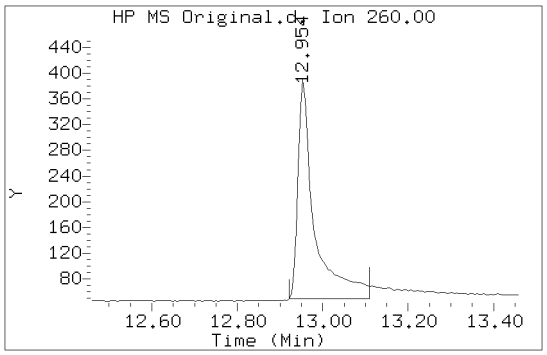
AFTER

MASS
264
AREA
6283
HEIGHT
1387
29-Aug-2023
14:45
ALSHS
Ser



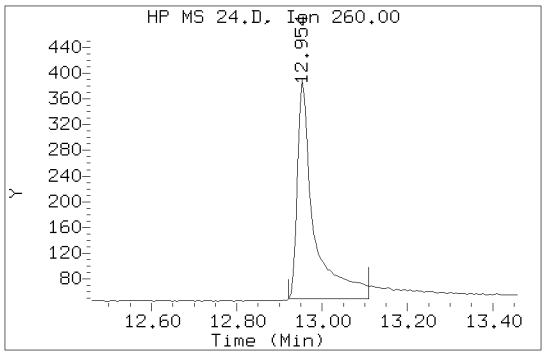
BEFORE

MASS
260
AREA
919
HEIGHT
341
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
260
AREA
919
HEIGHT
341
29-Aug-2023
14:45
ALSHS
Ser



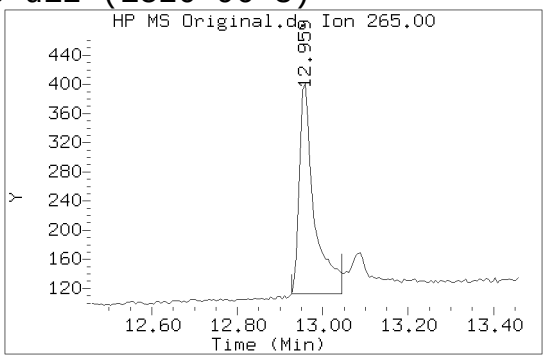
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Inj Date : 28-AUG-2023 18:23
InstruID : SV6.i
LabSampID : 1 4DX-CCV END

Perylene-d12 (1520-96-3)

Reason Code:

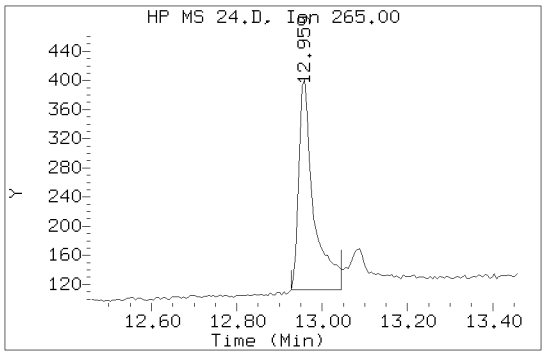
BEFORE

MASS
265
AREA
699
HEIGHT
288
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
265
AREA
699
HEIGHT
288
29-Aug-2023
14:45
ALSHS
Ser

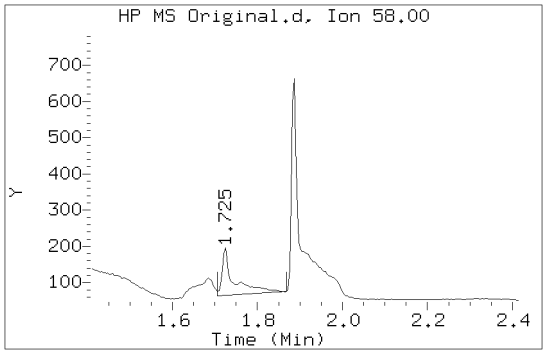


1,4-Dioxane ()

Reason Code:

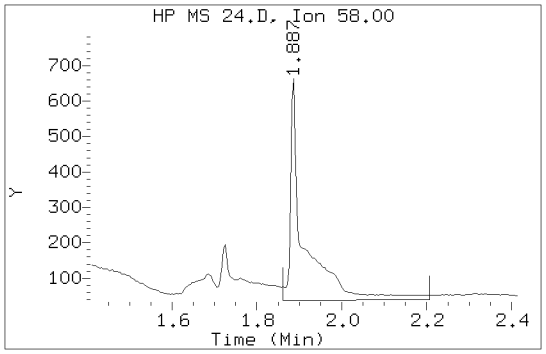
BEFORE

MASS
58
AREA
252
HEIGHT
130
28-Aug-2023
19:42
ALSHS
Server



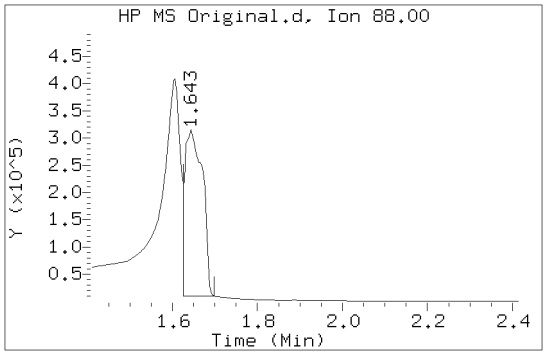
AFTER

MASS
58
AREA
1390
HEIGHT
624
29-Aug-2023
14:45
ALSHS
Ser



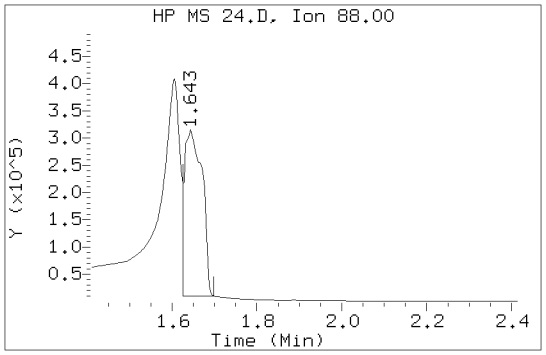
BEFORE

MASS
88
AREA
896926
HEIGHT
306114
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
88
AREA
896926
HEIGHT
306114
29-Aug-2023
14:45
ALSHS
Ser

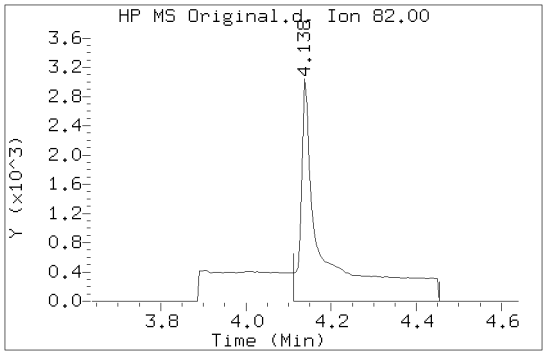


Nitrobenzene-d5 (4165-60-0)

Reason Code:

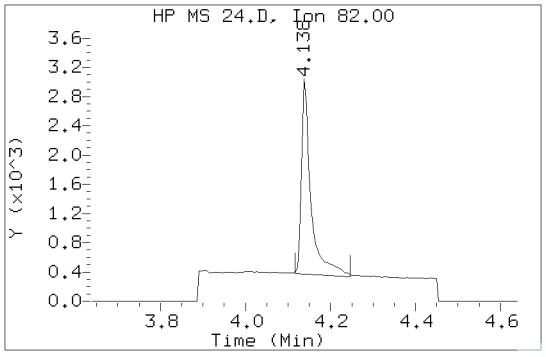
BEFORE

MASS
82
AREA
11153
HEIGHT
3041
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
82
AREA
4139
HEIGHT
2667
29-Aug-2023
14:45
ALSHS
Ser



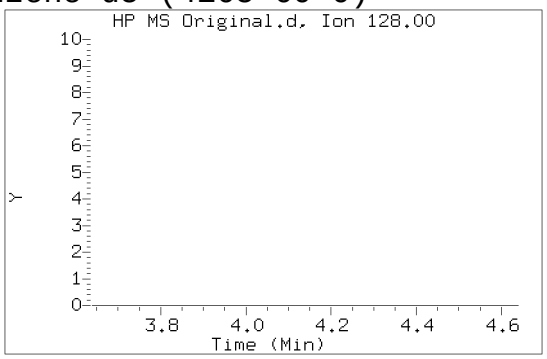
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Inj Date : 28-AUG-2023 18:23
InstruID : SV6.i
LabSampID : 1 4DX-CCV END

Nitrobenzene-d5 (4165-60-0)

Reason Code:

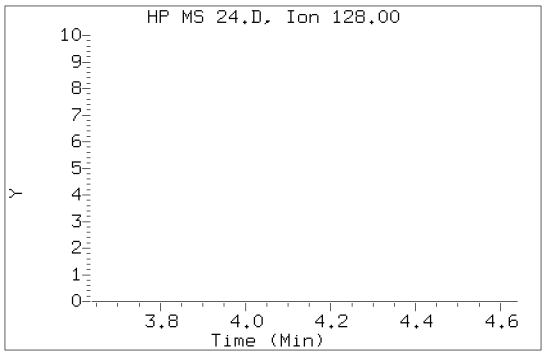
BEFORE

MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



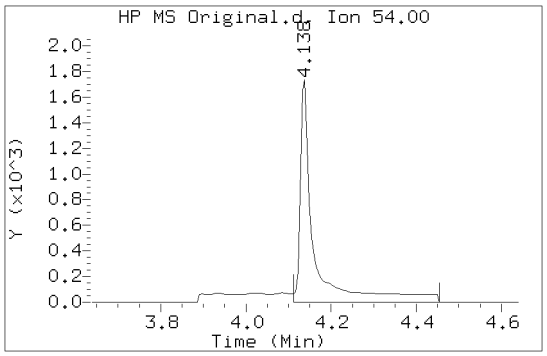
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Aug-2023
14:45
ALSHS
Ser



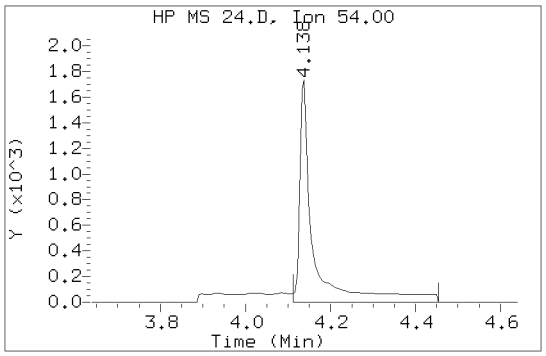
BEFORE

MASS
54
AREA
3915
HEIGHT
1734
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
54
AREA
3915
HEIGHT
1734
29-Aug-2023
14:45
ALSHS
Ser

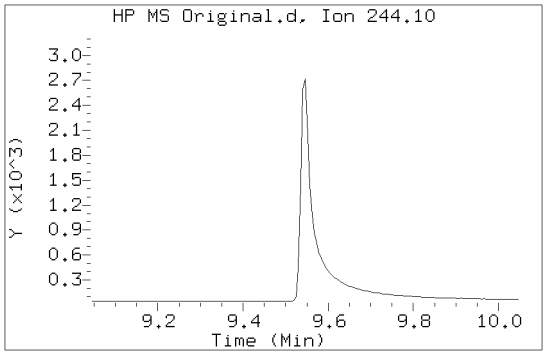


4-Terphenyl-d14 (1718-51-0)

Reason Code:

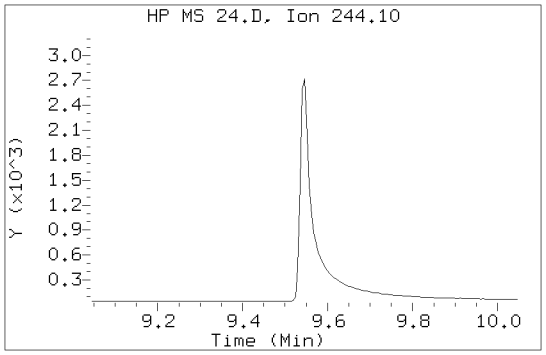
BEFORE

MASS
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AREA
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HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



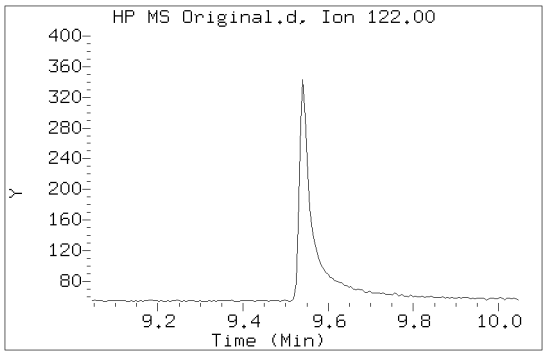
AFTER

MASS
244.1
AREA
6715
HEIGHT
2668
29-Aug-2023
14:45
ALSHS
Ser



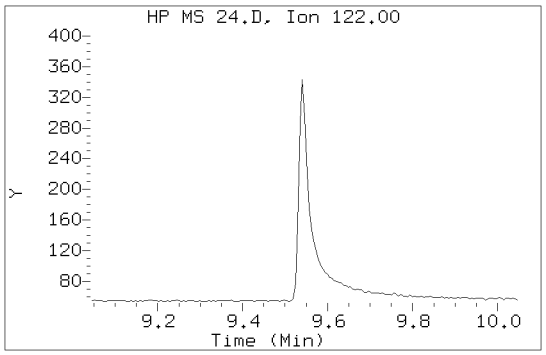
BEFORE

MASS
122
AREA
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HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
122
AREA
0
HEIGHT
0
29-Aug-2023
14:45
ALSHS
Ser



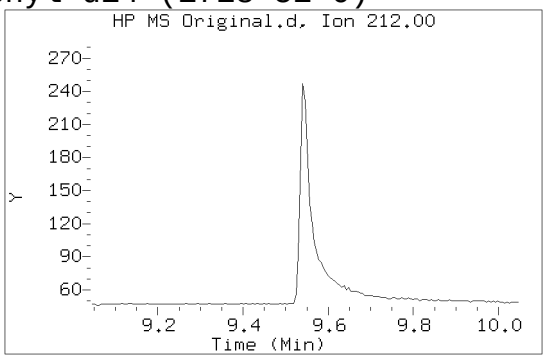
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Inj Date : 28-AUG-2023 18:23
InstruID : SV6.i
LabSampID : 1 4DX-CCV END

4-Terphenyl-d14 (1718-51-0)

Reason Code:

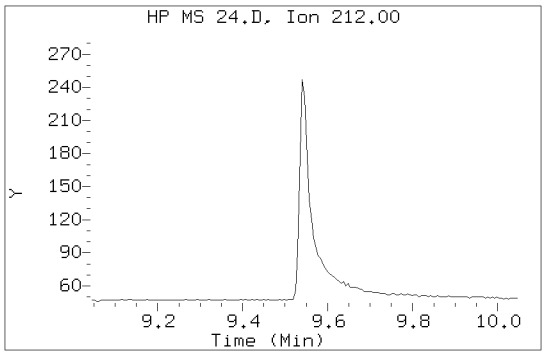
BEFORE

MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
29-Aug-2023
14:45
ALSHS
Ser

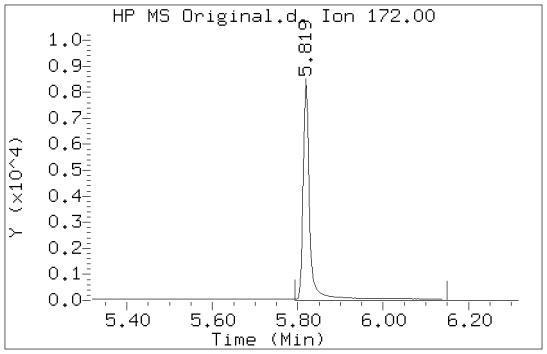


2-Fluorobiphenyl (321-60-8)

Reason Code:

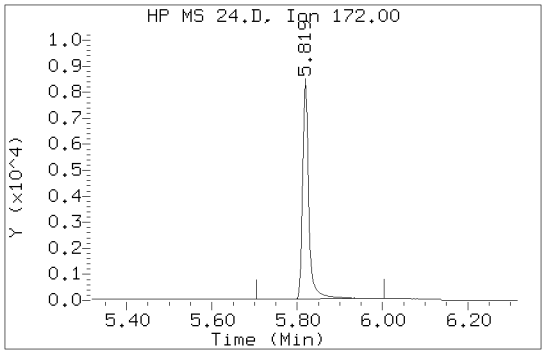
BEFORE

MASS
172
AREA
9924
HEIGHT
8520
28-Aug-2023
19:42
ALSHS
Server



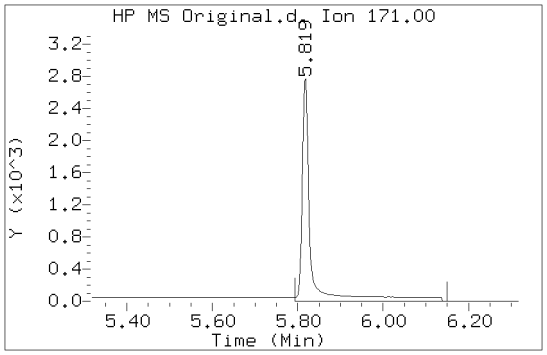
AFTER

MASS
172
AREA
8518
HEIGHT
8462
29-Aug-2023
14:45
ALSHS
Ser



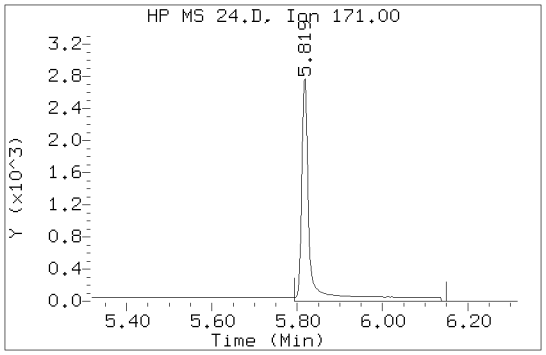
BEFORE

MASS
171
AREA
3969
HEIGHT
2769
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
171
AREA
3969
HEIGHT
2769
29-Aug-2023
14:45
ALSHS
Ser



HS23081040 - ME - HG_W_DODICP_W_DOD

ALS WO# HS23081040

ALS Houston, US

Date: 30-Aug-23

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc.

Instrument:ICPMS06

Project: Groundwater Treatment Plant Quarterly Influent Samples

WorkOrder: HS23081040

Mass	Analyte	Assoc Int Standard 1	Assoc Int Standard 2	Mode
9	Beryllium	Lithium		Ar
11	Boron	Lithium		Ar
23	Sodium	Germanium		ArHe
24	Magnesium	Germanium		ArHe
27	Aluminum	Germanium		ArHe
39	Potassium	Germanium		ArHe
44	Calcium	Germanium		Ar
47	Titanium	Germanium		Ar
51	Vanadium	Germanium		ArHe
52	Chromium	Germanium		ArHe
55	Manganese	Germanium		ArHe
56	Iron	Germanium		ArHe
59	Cobalt	Germanium		ArHe
60	Nickel	Germanium		ArHe
63	Copper	Germanium		ArHe
66	Zinc	Germanium		ArHe
75	Arsenic	Germanium		ArHe
82	Selenium	Germanium		Ar
88	Strontium	Indium		Ar
95	Molybdenum	Indium		Ar
105	Palladium	Germanium		Ar
107	Silver	Indium		Ar
114	Cadmium	Indium		Ar
118	Tin	Indium		Ar
121	Antimony	Germanium		ArHe
137	Barium	Indium		Ar
205	Thallium	Bismuth		Ar
208	Lead	Bismuth		Ar

ALS Houston, US

Date: 30-Aug-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040
Start Date: 28-Aug-2023 End Date: 28-Aug-2023

Run ID:HG04_444967
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICCV 1	1	28-Aug-2023 11:57	HG04_444967 Raw Data_7512500	HG
ICV	1	28-Aug-2023 11:58	_7512501	HG
ICB	1	28-Aug-2023 12:00	_7512502	HG
CRA	1	28-Aug-2023 12:02	_7512503	HG
CCV 2	1	28-Aug-2023 12:09	_7512504	HG
CCB 1	1	28-Aug-2023 12:10	_7512505	HG
CCV 3	1	28-Aug-2023 12:35	_7512516	HG
CCB 2	1	28-Aug-2023 12:37	_7512517	HG
CCV 4	1	28-Aug-2023 12:58	_7512527	HG
CCB 3	1	28-Aug-2023 12:59	_7512528	HG
CCV 5	1	28-Aug-2023 13:25	_7512532	HG
CCB 4	1	28-Aug-2023 13:27	_7512533	HG
CCV 6	1	28-Aug-2023 13:47	_7512544	HG
CCB 5	1	28-Aug-2023 13:49	_7512545	HG
CCV 7	1	28-Aug-2023 14:10	_7512556	HG
CCB 6	1	28-Aug-2023 14:11	_7512557	HG
MBLK-199581	1	28-Aug-2023 14:17	_7512560	HG
LCS-199581	1	28-Aug-2023 14:20	_7512561	HG
LH18/24-SP140_081623	1	28-Aug-2023 14:22	_7512562	HG
LH18/24-SP140_081623MS	1	28-Aug-2023 14:24	_7512563	HG
LH18/24-SP140_081623MSD	1	28-Aug-2023 14:25	_7512564	HG
CCV 8	1	28-Aug-2023 14:36	_7512568	HG
CCB 7	1	28-Aug-2023 14:38	_7512569	HG
CCV 9	1	28-Aug-2023 15:00	_7512581	HG
CCB 8	1	28-Aug-2023 15:02	_7512582	HG
CCV 10	1	28-Aug-2023 15:14	_7512638	HG
CCB 9	1	28-Aug-2023 15:16	_7512639	HG

ALS Houston, US

Date: 30-Aug-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040
Start Date: 29-Aug-2023 End Date: 29-Aug-2023

Run ID:ICPMS06_445040
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS06_445040_Tune	1	29-Aug-2023 00:00	ICPMS06_445040_Tune_1	
CAL BLK	1	29-Aug-2023 11:06	015CALB.d_7514503	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	29-Aug-2023 11:08	016CALS.d_7514504	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	29-Aug-2023 11:10	017CALS.d_7514505	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	29-Aug-2023 11:12	018CALS.d_7514506	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	29-Aug-2023 11:14	019CALS.d_7514507	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	29-Aug-2023 11:16	020CALS.d_7514508	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	29-Aug-2023 11:20	022_ICV.d_7514510	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	29-Aug-2023 11:24	024LCV2.d_7514512	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	29-Aug-2023 11:26	025LCV5.d_7514513	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	29-Aug-2023 11:28	026_ICB.d_7514514	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	29-Aug-2023 11:32	028ICSA.d_7514516	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	29-Aug-2023 11:34	029ICSB.d_7514517	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	29-Aug-2023 11:44	032_CCV.d_7514572	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 1	1	29-Aug-2023 11:46	033_CCB.d_7514573	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
MBLK-199483	1	29-Aug-2023 11:55	035SMPL.d_7514575	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP140_081623	1	29-Aug-2023 11:59	037SMPL.d_7514577	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
ZZZZZZMS	1	29-Aug-2023 12:01	038SMPL.d_7514578	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZSD	500	29-Aug-2023 12:07	041SMPL.d_7514605	NA
ZZZZZZPDS	100	29-Aug-2023 12:09	042SMPL.d_7514606	NA
CCV 2	1	29-Aug-2023 12:11	043_CCV.d_7514607	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	29-Aug-2023 12:12	044_CCB.d_7514608	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	29-Aug-2023 12:32	054_CCV.d_7514710	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	29-Aug-2023 12:34	055_CCB.d_7514711	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LCS-199483	1	29-Aug-2023 12:42	059SMPL.d_7514707	TL
LH18/24-SP140_081623	20	29-Aug-2023 12:44	060SMPL.d_7514708	NA
CCV 4	1	29-Aug-2023 12:46	061_CCV.d_7514712	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 4	1	29-Aug-2023 12:48	062_CCB.d_7514713	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US

Date: 30-Aug-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040
Start Date: 28-Aug-2023 End Date: 28-Aug-2023

Run ID:ICPMS07_444934
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_444934_Tune	1	28-Aug-2023 00:00	ICPMS07_444934_Tune_1	
CAL BLK	1	28-Aug-2023 17:35	020CALB.d_7513255	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	28-Aug-2023 17:37	021CALS.d_7513256	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	28-Aug-2023 17:39	022CALS.d_7513257	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	28-Aug-2023 17:42	023CALS.d_7513258	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	28-Aug-2023 17:44	024CALS.d_7513259	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	28-Aug-2023 17:46	025CALS.d_7513260	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	28-Aug-2023 17:53	027_ICV.d_7513262	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	28-Aug-2023 17:55	028LCV5.d_7513263	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	28-Aug-2023 17:57	029LCV2.d_7513264	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	28-Aug-2023 18:00	030_ICB.d_7513265	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	28-Aug-2023 18:02	031LCV5.d_7513266	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	28-Aug-2023 18:04	032ICSA.d_7513267	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	28-Aug-2023 18:07	033ICSB.d_7513268	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	28-Aug-2023 18:12	035_CCV.d_7513270	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 1	1	28-Aug-2023 18:14	036_CCB.d_7513271	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	28-Aug-2023 18:24	038_CCB.d_7513273	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	28-Aug-2023 18:26	039_CCB.d_7513274	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 2	1	28-Aug-2023 18:29	040_CCV.d_7513275	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	28-Aug-2023 18:31	041_CCV.d_7513276	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LCS-199483	1	28-Aug-2023 18:38	044SMPL.d_7513278	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE V ZN
ZZZZZZSD	5	28-Aug-2023 18:45	047SMPL.d_7513281	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMSD	1	28-Aug-2023 18:50	049SMPL.d_7513284	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZPDS	1	28-Aug-2023 18:52	050SMPL.d_7513285	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
CCB 4	1	28-Aug-2023 19:10	052_CCB.d_7514652	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	28-Aug-2023 19:12	053_CCV.d_7514653	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 5	1	28-Aug-2023 19:17	054_CCB.d_7514654	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 6	1	28-Aug-2023 19:20	055_CCB.d_7514655	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US

Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: HG04_444967
Instrument: HG04
Method: SW7470A

ICCV1 Date: 28-Aug-2023 11:57 Seq: 7512500 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	5.15	103	90-110	

ICV Date: 28-Aug-2023 11:58 Seq: 7512501 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	5.11	102	90-110	

CCV2 Date: 28-Aug-2023 12:09 Seq: 7512504 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	5.13	103	90-110	

CCV3 Date: 28-Aug-2023 12:35 Seq: 7512516 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	5.12	102	90-110	

CCV4 Date: 28-Aug-2023 12:58 Seq: 7512527 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	5.14	103	90-110	

CCV5 Date: 28-Aug-2023 13:25 Seq: 7512532 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.95	99	90-110	

CCV6 Date: 28-Aug-2023 13:47 Seq: 7512544 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.89	98	90-110	

CCV7 Date: 28-Aug-2023 14:10 Seq: 7512556 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.94	99	90-110	

CCV8 Date: 28-Aug-2023 14:36 Seq: 7512568 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.97	99	90-110	

CCV9 Date: 28-Aug-2023 15:00 Seq: 7512581 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.96	99	90-110	

CCV10 Date: 28-Aug-2023 15:14 Seq: 7512638 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.98	100	90-110	

ALS Houston, US

Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

ICV | Date: 29-Aug-2023 11:20 | Seq: 7514510 | ICV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.15	101	90-110	
Antimony	100	99.398	99	90-110	
Arsenic	100	104.348	104	90-110	
Barium	100	100.512	101	90-110	
Beryllium	100	100.196	100	90-110	
Cadmium	100	102.199	102	90-110	
Calcium	10000	10163.826	102	90-110	
Chromium	100	99.432	99	90-110	
Cobalt	100	100.186	100	90-110	
Iron	10000	10100.598	101	90-110	
Lead	100	99.959	100	90-110	
Magnesium	10000	9988.796	100	90-110	
Manganese	100	99.628	100	90-110	
Nickel	100	100.624	101	90-110	
Potassium	10000	9965.341	100	90-110	
Selenium	100	100.717	101	90-110	
Silver	100	98.915	99	90-110	
Sodium	10000	10025.419	100	90-110	
Thallium	100	102.296	102	90-110	
Vanadium	100	99.37	99	90-110	
Zinc	100	102.028	102	90-110	

CCV1 | Date: 29-Aug-2023 11:44 | Seq: 7514572 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.511	103	90-110	
Antimony	100	102.825	103	90-110	
Arsenic	100	101.4	101	90-110	
Barium	100	101.771	102	90-110	
Beryllium	100	98.584	99	90-110	
Cadmium	100	101.598	102	90-110	
Calcium	10000	10293.585	103	90-110	
Chromium	100	101.836	102	90-110	
Cobalt	100	103.174	103	90-110	
Iron	10000	10394.375	104	90-110	
Lead	100	101.075	101	90-110	
Magnesium	10000	10167.191	102	90-110	
Manganese	100	102.203	102	90-110	
Nickel	100	106.269	106	90-110	
Potassium	10000	10060.058	101	90-110	
Selenium	100	103.306	103	90-110	
Silver	100	101.817	102	90-110	
Sodium	10000	10230.944	102	90-110	
Thallium	100	98.829	99	90-110	
Vanadium	100	101.15	101	90-110	
Zinc	100	103.117	103	90-110	

CCV2 | Date: 29-Aug-2023 12:11 | Seq: 7514607 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	100.628	101	90-110	
Antimony	100	99.728	100	90-110	
Arsenic	100	100.055	100	90-110	
Barium	100	100.377	100	90-110	
Beryllium	100	99.377	99	90-110	
Cadmium	100	101.78	102	90-110	
Calcium	10000	10050.667	101	90-110	

ALS Houston, US Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

CCV2 Date: 29-Aug-2023 12:11 Seq: 7514607 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Chromium	100	98.639	99	90-110	
Cobalt	100	98.096	98	90-110	
Iron	10000	10147.997	101	90-110	
Lead	100	100.901	101	90-110	
Magnesium	10000	9861.363	99	90-110	
Manganese	100	98.019	98	90-110	
Nickel	100	101.332	101	90-110	
Potassium	10000	9976.352	100	90-110	
Selenium	100	98.59	99	90-110	
Silver	100	99.291	99	90-110	
Sodium	10000	10060.574	101	90-110	
Thallium	100	95.447	95	90-110	
Vanadium	100	99.205	99	90-110	
Zinc	100	101.007	101	90-110	

CCV3 Date: 29-Aug-2023 12:32 Seq: 7514710 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.05	101	90-110	
Antimony	100	101.759	102	90-110	
Arsenic	100	99.372	99	90-110	
Barium	100	101.833	102	90-110	
Beryllium	100	99.996	100	90-110	
Cadmium	100	100.52	101	90-110	
Calcium	10000	10226.119	102	90-110	
Chromium	100	99.351	99	90-110	
Cobalt	100	100.41	100	90-110	
Iron	10000	10207.331	102	90-110	
Lead	100	101.6	102	90-110	
Magnesium	10000	10207.833	102	90-110	
Manganese	100	100.179	100	90-110	
Nickel	100	101.118	101	90-110	
Potassium	10000	9948.996	100	90-110	
Selenium	100	99.09	99	90-110	
Silver	100	99.99	100	90-110	
Sodium	10000	10166.654	102	90-110	
Thallium	100	95.612	96	90-110	
Vanadium	100	99.386	99	90-110	
Zinc	100	102.045	102	90-110	

CCV4 Date: 29-Aug-2023 12:46 Seq: 7514712 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	103.383	103	90-110	
Antimony	100	101.928	102	90-110	
Arsenic	100	100.765	101	90-110	
Barium	100	99.544	100	90-110	
Beryllium	100	96.968	97	90-110	
Cadmium	100	99.521	100	90-110	
Calcium	10000	10359.859	104	90-110	
Chromium	100	100.734	101	90-110	
Cobalt	100	100.946	101	90-110	
Iron	10000	10194.357	102	90-110	
Lead	100	101.627	102	90-110	
Magnesium	10000	10172.513	102	90-110	
Manganese	100	100.406	100	90-110	
Nickel	100	101.473	101	90-110	

ALS Houston, US Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

CCV4 Date: 29-Aug-2023 12:46 Seq: 7514712 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	9892.28	99	90-110	
Selenium	100	101.441	101	90-110	
Silver	100	98.485	99	90-110	
Sodium	10000	10113.689	101	90-110	
Thallium	100	94.7	95	90-110	
Vanadium	100	99.987	100	90-110	
Zinc	100	101.622	102	90-110	

ALS Houston, US

Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

ICV | Date: 28-Aug-2023 17:53 | Seq: 7513262 | ICV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	106.84	107	90-110	
Antimony	100	97.962	98	90-110	
Arsenic	100	99.208	99	90-110	
Barium	100	99.297	99	90-110	
Beryllium	100	99.004	99	90-110	
Cadmium	100	99.107	99	90-110	
Calcium	10000	9862.653	99	90-110	
Chromium	100	98.734	99	90-110	
Cobalt	100	99.019	99	90-110	
Iron	10000	9892.461	99	90-110	
Lead	100	93.324	93	90-110	
Magnesium	10000	9779.262	98	90-110	
Manganese	100	98.34	98	90-110	
Nickel	100	96.622	97	90-110	
Potassium	10000	9827.497	98	90-110	
Selenium	100	98.823	99	90-110	
Silver	100	99.716	100	90-110	
Sodium	10000	9859.993	99	90-110	
Thallium	100	96.282	96	90-110	
Vanadium	100	97.421	97	90-110	
Zinc	100	100.836	101	90-110	

CCV1 | Date: 28-Aug-2023 18:12 | Seq: 7513270 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	221.726	222	90-110	S
Antimony	100	99.221	99	90-110	
Arsenic	100	100.392	100	90-110	
Barium	100	99.71	100	90-110	
Beryllium	100	94.565	95	90-110	
Cadmium	100	99.526	100	90-110	
Calcium	10000	10035.469	100	90-110	
Chromium	100	100.48	100	90-110	
Cobalt	100	99.703	100	90-110	
Iron	10000	10084.83	101	90-110	
Lead	100	94.423	94	90-110	
Magnesium	10000	10029.686	100	90-110	
Manganese	100	98.926	99	90-110	
Nickel	100	100.745	101	90-110	
Potassium	10000	10072.544	101	90-110	
Selenium	100	100.472	100	90-110	
Silver	100	100.061	100	90-110	
Sodium	10000	10220.69	102	90-110	
Thallium	100	96.774	97	90-110	
Vanadium	100	98.311	98	90-110	
Zinc	100	102.145	102	90-110	

CCV2 | Date: 28-Aug-2023 18:29 | Seq: 7513275 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	105.636	106	90-110	
Antimony	100	97.424	97	90-110	
Arsenic	100	98.72	99	90-110	
Barium	100	98.049	98	90-110	
Beryllium	100	97.449	97	90-110	
Cadmium	100	99.447	99	90-110	
Calcium	10000	9781.706	98	90-110	

ALS Houston, US Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

CCV2 Date: 28-Aug-2023 18:29 Seq: 7513275 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Chromium	100	97.785	98	90-110	
Cobalt	100	98.575	99	90-110	
Iron	10000	9906.137	99	90-110	
Lead	100	92.388	92	90-110	
Magnesium	10000	9870.878	99	90-110	
Manganese	100	98.373	98	90-110	
Nickel	100	99.099	99	90-110	
Potassium	10000	9879.147	99	90-110	
Selenium	100	98.522	99	90-110	
Silver	100	99.381	99	90-110	
Sodium	10000	9785.511	98	90-110	
Thallium	100	95.06	95	90-110	
Vanadium	100	96.574	97	90-110	
Zinc	100	99.223	99	90-110	

CCV3 Date: 28-Aug-2023 18:31 Seq: 7513276 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	108.805	109	90-110	
Antimony	100	98.709	99	90-110	
Arsenic	100	100.055	100	90-110	
Barium	100	97.997	98	90-110	
Beryllium	100	97.488	98	90-110	
Cadmium	100	98.513	99	90-110	
Calcium	10000	9997.71	100	90-110	
Chromium	100	100.158	100	90-110	
Cobalt	100	99.419	99	90-110	
Iron	10000	9991.284	100	90-110	
Lead	100	93.13	93	90-110	
Magnesium	10000	9983.442	100	90-110	
Manganese	100	99.638	100	90-110	
Nickel	100	99.324	99	90-110	
Potassium	10000	9923.726	99	90-110	
Selenium	100	97.886	98	90-110	
Silver	100	99.186	99	90-110	
Sodium	10000	9987.169	100	90-110	
Thallium	100	97.359	97	90-110	
Vanadium	100	98.169	98	90-110	
Zinc	100	101.339	101	90-110	

CCV4 Date: 28-Aug-2023 19:12 Seq: 7514653 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	108.707	109	90-110	
Antimony	100	96.167	96	90-110	
Arsenic	100	98.218	98	90-110	
Barium	100	97.837	98	90-110	
Beryllium	100	96.979	97	90-110	
Cadmium	100	99.6	100	90-110	
Calcium	10000	9946.241	100	90-110	
Chromium	100	98.144	98	90-110	
Cobalt	100	98.444	98	90-110	
Iron	10000	9917.797	99	90-110	
Lead	100	91.395	91	90-110	
Magnesium	10000	9891.909	99	90-110	
Manganese	100	98.812	99	90-110	
Nickel	100	96.928	97	90-110	

ALS Houston, US Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

CCV4 Date: 28-Aug-2023 19:12 Seq: 7514653 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	10054.812	101	90-110	
Selenium	100	100.509	101	90-110	
Silver	100	99.623	100	90-110	
Sodium	10000	10208.256	102	90-110	
Thallium	100	94.691	95	90-110	
Vanadium	100	98.396	98	90-110	
Zinc	100	98.695	99	90-110	

ALS Houston, US

Date: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: HG04_444967
Instrument: HG04
Method: SW7470A

ICB	Date: 28-Aug-2023 12:00		Seq: 7512502	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB1	Date: 28-Aug-2023 12:10		Seq: 7512505	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB2	Date: 28-Aug-2023 12:37		Seq: 7512517	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB3	Date: 28-Aug-2023 12:59		Seq: 7512528	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB4	Date: 28-Aug-2023 13:27		Seq: 7512533	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB5	Date: 28-Aug-2023 13:49		Seq: 7512545	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB6	Date: 28-Aug-2023 14:11		Seq: 7512557	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
MBLK-199581	Date: 28-Aug-2023 14:17		Seq: 7512560	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB7	Date: 28-Aug-2023 14:38		Seq: 7512569	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB8	Date: 28-Aug-2023 15:02		Seq: 7512582	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB9	Date: 28-Aug-2023 15:16		Seq: 7512639	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

ALS Houston, US Date: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

ICB	Date: 29-Aug-2023 11:28		Seq: 7514514	ICB	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	-0.57	0.4	5	J	
Cobalt	5	0.1	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	

CCB1	Date: 29-Aug-2023 11:46		Seq: 7514573	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	4	0.4	4	U	
Cobalt	5	0.2	5	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	0.77	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-199483	Date: 29-Aug-2023 11:55		Seq: 7514575	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	2.191	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	500	34	500	U	

ALS Houston, US Date: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

MBLK-199483 Date: 29-Aug-2023 11:55 Seq: 7514575 MBLK Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Chromium	5	0.4	5	U
Cobalt	5	0.1	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

CCB2 Date: 29-Aug-2023 12:12 Seq: 7514608 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	4	0.4	4	U
Cobalt	5	0.2	5	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	20.6	14	200	J
Thallium	0.799	0.2	2	J
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

CCB3 Date: 29-Aug-2023 12:34 Seq: 7514711 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	4	0.4	4	U
Cobalt	5	0.2	5	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: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

CCB3	Date: 29-Aug-2023 12:34		Seq: 7514711	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	200	14	200	U	
Thallium	0.928	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 29-Aug-2023 12:48		Seq: 7514713	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	4	0.4	4	U	
Cobalt	5	0.2	5	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	0.945	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

ALS Houston, US Date: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 28-Aug-2023 18:00		Seq: 7513265	ICB	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	
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	

CCB1	Date: 28-Aug-2023 18:14		Seq: 7513271	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	53.1	1.8	10		
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	87.82	34	500	J	
Chromium	4	0.4	4	U	
Cobalt	0.223	0.2	5	J	
Iron	75.87	12	200	J	
Lead	2	0.6	2	U	
Magnesium	82.64	10	200	J	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	90.68	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	110.9	14	200	J	
Thallium	0.296	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB2	Date: 28-Aug-2023 18:24		Seq: 7513273	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	

ALS Houston, US Date: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 28-Aug-2023 18:24		Seq: 7513273	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	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	

CCB3	Date: 28-Aug-2023 18:26		Seq: 7513274	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	4	0.4	4	U	
Cobalt	5	0.2	5	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	1.277	1.1	2	J	
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	

CCB4	Date: 28-Aug-2023 19:10		Seq: 7514652	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	60.36	34	500	J	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	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: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

CCB4	Date: 28-Aug-2023 19:10		Seq: 7514652	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Potassium	66.53	18	200	J	
Selenium	2.907	1.1	2		
Silver	2	0.2	2	U	
Sodium	315.3	14	200		
Thallium	2	0.2	2	U	
Vanadium	3.11	0.6	5	J	
Zinc	4	2	4	U	

CCB5	Date: 28-Aug-2023 19:17		Seq: 7514654	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	37.38	34	500	J	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	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	41.04	18	200	J	
Selenium	1.99	1.1	2	J	
Silver	2	0.2	2	U	
Sodium	208.9	14	200		
Thallium	0.207	0.2	2	J	
Vanadium	0.632	0.6	5	J	
Zinc	4	2	4	U	

CCB6	Date: 28-Aug-2023 19:20		Seq: 7514655	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	4	0.4	4	U	
Cobalt	5	0.2	5	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	1.967	1.1	2	J	
Silver	2	0.2	2	U	
Sodium	187.9	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	0.897	0.6	5	J	
Zinc	4	2	4	U	

ALS Houston, US Date: 30-Aug-23

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS06_445040
Project: Groundwater Treatment Plant Quarterly Influent Samples Instrument:ICPMS06
WorkOrder: HS23081040 Method:SW6020A

ICSA	Date: 29-Aug-2023 11:32	Seq: 7514516	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	97220	97.2	
Antimony		0.253	0	
Arsenic		0.177	0	
Barium		0.665	0	
Beryllium		-0.007	0	
Cadmium		0.281	0	
Calcium	100000	94150	94.1	
Chromium		1.694	0	
Cobalt		0.366	0	
Iron	100000	100900	101	
Lead		0.174	0	
Magnesium	100000	101900	102	
Manganese		0.731	0	
Nickel		0.886	0	
Potassium	100000	100700	101	
Selenium		0.479	0	
Silver		0.168	0	
Sodium	100000	101800	102	
Thallium		-0.014	0	
Vanadium		-0.032	0	
Zinc		2.65	0	

ICSAB	Date: 29-Aug-2023 11:34	Seq: 7514517	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	95720	95.2	
Antimony	100	101.8	102	
Arsenic	100	104.5	104	
Barium	100	104	104	
Beryllium	100	95.56	95.6	
Cadmium	100	102.2	102	
Calcium	110000	104900	95.4	
Chromium	100	102	102	
Cobalt	100	101.7	102	
Iron	110000	110100	100	
Lead	100	103.6	104	
Magnesium	110000	112100	102	
Manganese	100	101.8	102	
Nickel	100	99.43	99.4	
Potassium	110000	109800	99.8	
Selenium	100	106.7	107	
Silver	100	97.92	97.9	
Sodium	110000	111100	101	
Thallium	100	97.34	97.3	
Vanadium	100	102.4	102	
Zinc	100	103.6	104	

ALS Houston, US

Date: 30-Aug-23

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Run ID:ICPMS07_444934
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 28-Aug-2023 18:04	Seq: 7513267	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	103500	104	
Antimony		0.322	0	
Arsenic		0.502	0	
Barium		0.957	0	
Beryllium		-0.004	0	
Cadmium		1.273	0	
Calcium	100000	109200	109	
Chromium		1.498	0	
Cobalt		0.273	0	
Iron	100000	106600	107	
Lead		0.24	0	
Magnesium	100000	107200	107	
Manganese		0.455	0	
Nickel		0.839	0	
Potassium	100000	106400	106	
Selenium		-0.366	0	
Silver		0.202	0	
Sodium	100000	107200	107	
Thallium		0.033	0	
Vanadium		0.174	0	
Zinc		3.215	0	

ICSAB	Date: 28-Aug-2023 18:07	Seq: 7513268	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	101900	101	
Antimony	100	103.2	103	
Arsenic	100	103.1	103	
Barium	100	107.2	107	
Beryllium	100	91.17	91.2	
Cadmium	100	105.9	106	
Calcium	110000	117800	107	
Chromium	100	104.3	104	
Cobalt	100	103.8	104	
Iron	110000	116600	106	
Lead	100	100	100	
Magnesium	110000	116300	106	
Manganese	100	104.3	104	
Nickel	100	102.8	103	
Potassium	110000	115300	105	
Selenium	100	100.1	100	
Silver	100	104.1	104	
Sodium	110000	116800	106	
Thallium	100	105.6	106	
Vanadium	100	104.3	104	
Zinc	100	102.6	103	

ALS Houston, US

Date: 30-Aug-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Date Analyzed: 28-Aug-2023 14:25
Date Extracted: 28-Aug-2023 09:00
Units: ug/L

Matrix Spike: HS23081040-01MS
Client Sample ID: LH18/24-SP140_081623

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	4.650	5.000	92.6	4.610	5.000	91.8	82-119	0.864	20

ALS Houston, US

Date: 30-Aug-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Date Analyzed: 28-Aug-2023 18:50
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Matrix Spike: HS23081076-01MS
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	10.45	113.0	100.0	103	112.7	100.0	102	84-117	0.273	20
Antimony	5.000	49.11	50.00	97.6	51.79	50.00	103	85-117	5.32	20
Arsenic	0.6230	52.85	50.00	104	54.36	50.00	107	84-116	2.81	20
Barium	194.6	244.4	50.00	99.5	250.3	50.00	111	86-114	2.40	20
Beryllium	0.2100	47.36	50.00	94.3	48.21	50.00	96.0	83-121	1.80	20
Cadmium	0.2670	50.54	50.00	101	51.46	50.00	102	87-115	1.79	20
Calcium	13490	19280	5000	116	19040	5000	111	87-118	1.21	20
Chromium	5.000	49.96	50.00	99.3	51.78	50.00	103	85-116	3.60	20
Cobalt	0.2280	48.73	50.00	97.0	51.82	50.00	103	86-115	6.14	20
Iron	43.19	5098	5000	101	5243	5000	104	87-118	2.79	20
Lead	5.000	52.23	50.00	104	51.68	50.00	103	88-115	1.06	20
Magnesium	17730	22870	5000	103	23370	5000	113	83-118	2.20	20
Manganese	26.73	76.35	50.00	99.3	79.42	50.00	105	87-115	3.94	20
Nickel	5.000	47.91	50.00	94.9	51.19	50.00	101	85-117	6.62	20
Potassium	2133	7195	5000	101	7387	5000	105	87-115	2.63	20
Selenium	5.000	33.78	50.00	70.2	33.48	50.00	69.7	80-120	0.880	20
Silver	0.2470	49.24	50.00	98.0	47.85	50.00	95.2	85-116	2.87	20
Sodium	822200	832200	5000	200	857900	5000	712	85-117	3.03	20
Thallium	0.5770	41.73	50.00	82.3	43.16	50.00	85.2	82-116	3.36	20
Vanadium	1.615	51.43	50.00	99.6	55.94	50.00	109	86-115	8.41	20
Zinc	3.792	54.77	50.00	102	55.12	50.00	103	83-119	0.639	20

ALS Houston, US

Date: 30-Aug-23

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Date Analyzed: 29-Aug-2023 12:09
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: HS23081076-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Sodium	835100	1788000	1000000	95	80-120

ALS Houston, US Date: 30-Aug-23

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Date Analyzed: 28-Aug-2023 18:52
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: HS23081076-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	10.45	111.6	100	101	80-120
Antimony	0	98.59	100	98	80-120
Arsenic	0.623	104.8	100	104	80-120
Barium	194.6	294.3	100	100	80-120
Beryllium	0.21	95.86	100	96	80-120
Cadmium	0.267	100.9	100	101	80-120
Calcium	13490	25450	10000	120	80-120
Chromium	0	101	100	101	80-120
Cobalt	0.228	100.1	100	100	80-120
Iron	43.19	10150	10000	101	80-120
Lead	0	100	100	100	80-120
Magnesium	17730	27580	10000	99	80-120
Manganese	26.73	127.4	100	101	80-120
Nickel	0	97.94	100	98	80-120
Potassium	2133	12380	10000	102	80-120
Selenium	0	101.9	100	103	80-120
Silver	0.247	93.55	100	93	80-120
Thallium	0.577	95.7	100	95	80-120
Vanadium	1.615	104.7	100	103	80-120
Zinc	3.792	104.6	100	101	80-120

ALS Houston, US

Date: 30-Aug-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Date Analyzed: 28-Aug-2023 14:20
Date Extracted: 28-Aug-2023 09:00
Units: ug/L

Lab Sample ID: LCS-199581
Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.72	94	82-119

ALS Houston, US

Date: 30-Aug-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Date Analyzed: 29-Aug-2023 12:42
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: LCS-199483
Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Thallium	50	45.95	92	82-116

ALS Houston, US

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Date Analyzed: 28-Aug-2023 18:38
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: LCS-199483
Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	102.6	103	84-117
Antimony	50	49.58	99	85-117
Arsenic	50	50.31	101	84-116
Barium	50	50.19	100	86-114
Beryllium	50	49.22	98	83-121
Cadmium	50	50.67	101	87-115
Calcium	5000	4935	99	87-118
Chromium	50	49.64	99	85-116
Cobalt	50	50.28	101	86-115
Iron	5000	5046	101	87-118
Lead	50	44.06	88	88-115
Magnesium	5000	5067	101	83-118
Manganese	50	50.08	100	87-115
Nickel	50	50.27	101	85-117
Potassium	5000	4998	100	87-115
Selenium	50	51.09	102	80-120
Silver	50	47.68	95	85-116
Sodium	5000	4997	100	85-117
Vanadium	50	48.32	97	86-115
Zinc	50	51.8	104	83-119

ALS Houston, US

Date: 30-Aug-23

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Date Analyzed: 29-Aug-2023 12:07
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: HS23081076-01SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Sodium	835100		896200		7	

ALS Houston, US

Date: 30-Aug-23

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23081040

Date Analyzed: 28-Aug-2023 18:45
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: HS23081076-01SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	10.45		15.48	J	48	
Antimony	0	U	0	U	0	
Arsenic	0.623	J	0	U	0	
Barium	194.6		199.2		2	
Beryllium	0.21	J	0	U	0	
Cadmium	0.267	J	0	U	0	
Calcium	13490		13610		1	
Chromium	0	U	0	U	0	
Cobalt	0.228	J	0	U	0	
Iron	43.19	J	61.14	J	42	
Lead	0	U	0	U	0	
Magnesium	17730		18220		3	
Manganese	26.73		27.49		3	
Nickel	0	U	0	U	0	
Potassium	2133		2059		3	
Selenium	0	U	0	U	0	
Silver	0.247	J	0	U	0	
Sodium	822200		849200		3	
Thallium	0.577	J	0	U	0	
Vanadium	1.615	J	11.04	J	584	
Zinc	3.792	J	0	U	0	

Report Generated By Teledyne Leeman QuickTrace

Analyst: ALSHS.NoUser,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\082823AW.wszf

Creation Date: 8/28/2023 10:22:52 AM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
Calibration Blank					STD	08/28/23 11:45:35 am	0.000	-29	88.52		
	Replicates	-24.8	-7.2	-18.7	-66.9						
Standard #1 (0.2 ppb)					STD	08/28/23 11:47:17 am	0.200	1119	2.66	-5.17%	
	Replicates	1089.7	1107.7	1159.8	1119.2						
Standard #2 (0.5 ppb)					STD	08/28/23 11:48:59 am	0.500	2940	1.39	-5.29%	
	Replicates	2903.3	2914.3	2947.4	2994.3						
Standard #3 (2.0 ppb)					STD	08/28/23 11:50:42 am	2.000	12388	0.28	-2.66%	
	Replicates	12338.1	12394.9	12404.6	12414.1						
Standard #4 (5.0 ppb)					STD	08/28/23 11:52:25 am	5.000	33034	0.14	3.32%	
	Replicates	33002.8	33098.8	32998.8	33036.3						
Standard #5 (10.0 ppb)					STD	08/28/23 11:54:08 am	10.000	62642	0.24	-2.17%	
	Replicates	62469.2	62581.5	62701.2	62817.4						

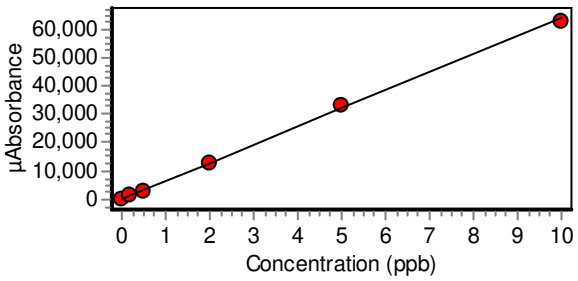
Calibration

Equation: Abs = 6413.237x + -97.239

R2: 0.99895 RSE: 5.08%

SEE: 898.4431

Flags:



ICCV					UNK	08/28/23 11:57:14 am	5.150	32928	0.21		
	Replicates	32836.6	32952.3	32924.8	32998.9						
ICV					UNK	08/28/23 11:58:56 am	5.110	32653	0.25		
	Replicates	32579.0	32591.3	32693.1	32748.5						
ICB					UNK	08/28/23 12:00:38 pm	0.008	-48	51.96		
	Replicates	-33.4	-57.3	-79.6	-22.6						
CRA					UNK	08/28/23 12:02:20 pm	0.209	1245	1.61		
	Replicates	1228.0	1246.7	1230.7	1275.0						
CCV					UNK	08/28/23 12:09:04 pm	5.130	32832	0.46		
	Replicates	32636.8	32807.9	32883.4	33001.2						
CCB					UNK	08/28/23 12:10:48 pm	0.010	-36	30.72		
	Replicates	-53.3	-48.9	-12.6	-28.8						
MBLK-199576					UNK	08/28/23 12:16:12 pm	0.020	31	10.68		
	Replicates	24.0	43.0	42.2	15.3						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-199576				UNK	08/28/23 12:17:54 pm	4.700	30070	0.76		
Replicates	30320.6	29853.0	29902.0	30202.8						
MBLKT1-199444				UNK	08/28/23 12:19:36 pm	0.016	7	7.24		
Replicates	-3.6	14.1	8.6	9.4						
MBLKT2-199512				UNK	08/28/23 12:21:19 pm	0.017	10	23.13		
Replicates	-19.7	37.5	0.5	20.2						
MBLKT3-199226				UNK	08/28/23 12:23:01 pm	0.021	35	16.82		
Replicates	9.1	53.1	23.4	53.7						
MBLKT4-199451				UNK	08/28/23 12:24:44 pm	0.019	27	7.15		
Replicates	22.0	31.6	18.1	37.6						
MBLKT5-199443				UNK	08/28/23 12:26:27 pm	0.018	16	11.00		
Replicates	20.4	-0.5	28.8	13.5						
MBLKT6-199542				UNK	08/28/23 12:28:10 pm	0.018	18	2.53		
Replicates	21.1	20.4	14.9	17.0						
MBLKT7-199543				UNK	08/28/23 12:29:51 pm	0.017	11	29.20		
Replicates	58.1	-10.6	-4.4	1.6						
HS23081000-01				UNK	08/28/23 12:31:32 pm	0.036	137	6.27		
Replicates	122.8	136.9	156.9	130.1						
CCV				UNK	08/28/23 12:35:18 pm	5.120	32762	0.11		
Replicates	32746.3	32740.8	32747.3	32815.5						
CCB				UNK	08/28/23 12:37:02 pm	0.006	-59	41.79		
Replicates	-39.9	-78.3	-62.9	-53.1						
HS23081368-01				UNK	08/28/23 12:38:43 pm	0.015	-1	17.58		
Replicates	-22.8	-3.2	3.5	17.8						
HS23081368-02				UNK	08/28/23 12:40:25 pm	0.017	12	9.64		
Replicates	-1.7	13.0	12.7	24.0						
HS23081368-03				UNK	08/28/23 12:42:07 pm	0.024	59	10.81		
Replicates	42.6	47.7	66.0	79.2						
HS23081370-01				UNK	08/28/23 12:43:50 pm	0.021	35	12.23		
Replicates	33.1	17.7	31.2	56.5						
HS23081371-01				UNK	08/28/23 12:45:32 pm	0.025	60	14.34		
Replicates	79.3	72.7	28.4	60.9						
HS23081421-01				UNK	08/28/23 12:47:14 pm	0.017	9	5.56		
Replicates	6.0	9.5	3.8	17.3						
HS23081421-02				UNK	08/28/23 12:48:57 pm	0.028	83	7.96		
Replicates	68.8	102.7	78.4	80.5						
HS23081437-01				UNK	08/28/23 12:50:40 pm	0.022	42	11.20		
Replicates	28.8	44.3	62.9	31.4						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23081437-01MS					UNK	08/28/23 12:52:22 pm	5.250	33545	0.55		
	Replicates	33311.5	33635.5	33738.6	33493.0						
HS23081437-01MSD					UNK	08/28/23 12:54:05 pm	4.970	31785	0.41		
	Replicates	31982.2	31723.0	31707.0	31728.0						
CCV					UNK	08/28/23 12:58:11 pm	5.140	32863	0.12		
	Replicates	32809.6	32881.8	32861.9	32897.4						
CCB					UNK	08/28/23 12:59:54 pm	0.010	-33	20.06		
	Replicates	-27.8	-16.5	-41.3	-44.7						
HS23081513-01					UNK	08/28/23 01:01:36 pm	0.034	120	13.70		
	Replicates	127.5	76.2	133.7	142.2						
HS23081534-01					UNK	08/28/23 01:03:17 pm	0.018	17	10.10		
	Replicates	11.1	18.3	6.3	32.8						
HS23081606-01					UNK	08/28/23 01:04:59 pm	0.025	64	8.14		
	Replicates	47.6	78.8	61.7	69.0						
HS23081606-02					UNK	08/28/23 01:06:41 pm	0.027	76	2.98		
	Replicates	82.7	75.5	70.1	76.8						
HS23081608-01					UNK	08/28/23 01:08:23 pm	0.023	52	15.12		
	Replicates	36.9	76.7	29.1	64.6						
HS23081613-01					UNK	08/28/23 01:10:05 pm	0.039	152	9.84		
	Replicates	188.4	142.5	137.0	139.3						
HS23081620-01					UNK	08/28/23 01:11:47 pm	0.022	43	23.34		
	Replicates	47.5	-3.7	58.2	71.3						
MBLK-199579					UNK	08/28/23 01:13:30 pm	0.016	6	25.15		
	Replicates	11.6	35.3	-27.7	5.3						
LCS-199579					UNK	08/28/23 01:15:12 pm	8.720	55817	3.77		
	Replicates	58282.8	56629.6	54964.2	53392.2						
HS23081506-01					UNK	08/28/23 01:16:55 pm	0.015	-2	22.05		
	Replicates	10.6	-25.9	-11.9	20.4						
CCV					UNK	08/28/23 01:25:31 pm	4.950	31621	0.30		
	Replicates	31582.2	31557.7	31580.8	31762.8						
CCB					UNK	08/28/23 01:27:15 pm	0.008	-44	19.11		
	Replicates	-32.6	-39.0	-50.8	-54.3						
LCS-199579					UNK	08/28/23 01:28:58 pm	4.750	30381	0.69		
	Replicates	30593.1	30486.8	30338.4	30105.8						
HS23081506-02					UNK	08/28/23 01:30:41 pm	0.015	-3	22.05		
	Replicates	-15.2	-6.3	-18.1	27.1						
HS23081506-03					UNK	08/28/23 01:32:24 pm	0.035	125	6.75		
	Replicates	115.7	123.6	147.3	115.3						

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23081506-04		UNK	08/28/23 01:34:05 pm	0.018	21	12.04		
Replicates	38.1	3.3	23.8	20.0				
HS23081506-05		UNK	08/28/23 01:35:47 pm	0.015	1	5.18		
Replicates	7.9	2.7	-0.8	-4.1				
HS23081506-06		UNK	08/28/23 01:37:29 pm	0.018	17	16.15		
Replicates	2.1	43.8	14.2	8.3				
HS23081511-02		UNK	08/28/23 01:39:11 pm	0.021	34	13.41		
Replicates	37.8	8.6	49.3	40.0				
HS23081511-04		UNK	08/28/23 01:40:53 pm	0.034	123	10.98		
Replicates	92.9	151.2	128.5	118.3				
HS23081548-05		UNK	08/28/23 01:42:35 pm	0.022	45	4.51		
Replicates	39.3	47.7	53.2	40.9				
HS23081548-06		UNK	08/28/23 01:44:17 pm	0.024	56	17.12		
Replicates	51.0	88.8	57.8	25.1				
CCV		UNK	08/28/23 01:47:22 pm	4.890	31233	1.10		
Replicates	30767.8	31196.2	31406.2	31560.9				
CCB		UNK	08/28/23 01:49:06 pm	0.008	-47	22.75		
Replicates	-37.5	-41.6	-63.3	-47.5				
HS23081550-01		UNK	08/28/23 01:50:48 pm	0.015	-4	15.00		
Replicates	-9.6	8.1	-21.1	6.9				
HS23081550-01MS		UNK	08/28/23 01:52:31 pm	2.340	14905	0.61		
Replicates	14815.4	14850.9	14935.1	15020.1				
HS23081550-01MSD		UNK	08/28/23 01:54:13 pm	2.270	14483	0.41		
Replicates	14456.5	14459.2	14444.7	14572.5				
HS23081550-03		UNK	08/28/23 01:55:56 pm	-0.136	-970	0.45		
Replicates	-968.0	-966.1	-970.9	-975.1				
HS23081550-04		UNK	08/28/23 01:57:39 pm	-0.023	-245	10.39		
Replicates	-224.2	-260.3	-243.6	-251.0				
HS23081550-05		UNK	08/28/23 01:59:21 pm	-0.004	-124	34.02		
Replicates	-131.7	-121.7	-131.9	-112.6				
HS23081550-07		UNK	08/28/23 02:01:03 pm	0.004	-68	99.68		
Replicates	-81.2	-76.1	-90.1	-26.1				
HS23081550-08		UNK	08/28/23 02:02:45 pm	0.012	-20	33.23		
Replicates	-29.2	15.6	-44.9	-21.6				
HS23081550-09		UNK	08/28/23 02:04:27 pm	0.008	-44	5.20		
Replicates	-47.0	-40.1	-43.5	-44.0				
HS23081550-10		UNK	08/28/23 02:06:09 pm	0.009	-39	21.68		
Replicates	-33.9	-46.9	-24.7	-52.4				

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCV					UNK	08/28/23 02:10:09 pm	4.940	31554	0.07		
	Replicates	31554.4	31536.2	31537.9	31587.1						
CCB					UNK	08/28/23 02:11:53 pm	0.012	-19	18.83		
	Replicates	-28.7	-33.0	-1.3	-11.5						
HS23081551-01					UNK	08/28/23 02:13:35 pm	0.403	2490	0.89		
	Replicates	2457.9	2487.5	2504.2	2508.8						
HS23081604-02					UNK	08/28/23 02:15:17 pm	0.009	-39	17.57		
	Replicates	-39.2	-40.1	-25.7	-50.7						
MBLK-199581					UNK	08/28/23 02:17:00 pm	0.018	15	22.99		
	Replicates	-16.0	41.9	5.4	30.4						
LCS-199581					UNK	08/28/23 02:20:45 pm	4.720	30159	0.65		
	Replicates	30364.6	30255.5	30108.8	29906.7						
HS23081040-01					UNK	08/28/23 02:22:27 pm	0.018	18	7.10		
	Replicates	28.9	19.3	12.9	10.6						
HS23081040-01MS					UNK	08/28/23 02:24:10 pm	4.650	29754	1.19		
	Replicates	29358.4	29581.3	29907.3	30167.6						
HS23081040-01MSD					UNK	08/28/23 02:25:53 pm	4.610	29454	1.17		
	Replicates	29003.9	29381.7	29641.0	29791.5						
HS23081076-01					UNK	08/28/23 02:27:35 pm	0.012	-21	10.42		
	Replicates	-12.1	-18.7	-31.2	-21.7						
MBLK-199583					UNK	08/28/23 02:29:18 pm	0.015	0	20.57		
	Replicates	-27.4	5.4	2.8	20.4						
LCS-199583					UNK	08/28/23 02:32:59 pm	4.690	30008	0.70		
	Replicates	30274.4	30080.6	29845.6	29832.9						
CCV					UNK	08/28/23 02:36:45 pm	4.970	31749	0.40		
	Replicates	31672.5	31633.7	31765.7	31922.1						
CCB					UNK	08/28/23 02:38:29 pm	0.009	-42	48.32		
	Replicates	-71.8	-18.1	-22.1	-57.7						
HS23081565-01					UNK	08/28/23 02:40:12 pm	0.018	22	10.72		
	Replicates	7.5	37.7	17.0	24.5						
HS23081565-01MS					UNK	08/28/23 02:41:54 pm	4.860	31045	0.32		
	Replicates	31098.7	31153.7	30992.7	30935.2						
HS23081565-01MSD					UNK	08/28/23 02:43:36 pm	4.860	31047	0.50		
	Replicates	30832.2	31046.7	31115.5	31195.2						
MBLK-199582					UNK	08/28/23 02:45:19 pm	0.000	-95	452.52		
	Replicates	-78.1	-104.6	-94.9	-100.9						
LCS-199852					UNK	08/28/23 02:49:07 pm	4.600	29416	0.79		
	Replicates	29084.4	29423.4	29562.9	29592.8						

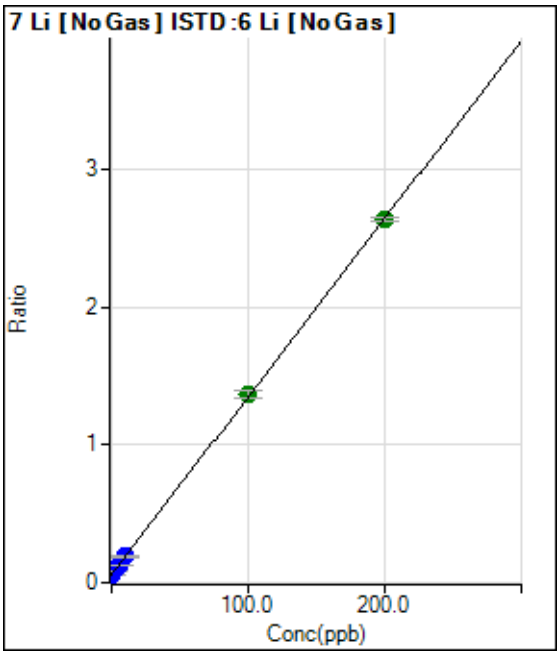
Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23081540-01					UNK	08/28/23 02:50:50 pm	0.032	106	3.54		
	Replicates	94.9	109.5	109.8	108.0						
HS23081540-01MS					UNK	08/28/23 02:52:33 pm	4.750	30353	1.41		
	Replicates	29844.2	30205.7	30517.4	30846.2						
HS23081540-01MSD					UNK	08/28/23 02:54:15 pm	4.760	30409	0.92		
	Replicates	30023.7	30420.2	30498.8	30693.7						
HS23081547-01					UNK	08/28/23 02:55:58 pm	0.039	151	5.09		
	Replicates	139.5	145.4	148.4	168.6						
MBLK-199584					UNK	08/28/23 02:57:41 pm	0.021	40	21.32		
	Replicates	51.4	2.7	35.7	72.3						
CCV					UNK	08/28/23 03:00:29 pm	4.960	31710	0.39		
	Replicates	31603.2	31627.9	31735.4	31872.6						
CCB					UNK	08/28/23 03:02:12 pm	0.010	-32	12.67		
	Replicates	-32.0	-22.4	-31.4	-42.6						
LCS-199584					UNK	08/28/23 03:03:55 pm	5.410	34599	0.09		
	Replicates	34605.3	34584.0	34640.2	34566.5						
HS23081059-01					UNK	08/28/23 03:05:37 pm	0.023	52	4.94		
	Replicates	49.3	56.2	60.2	43.6						
HS23081059-01MS					UNK	08/28/23 03:07:19 pm	4.520	28907	0.87		
	Replicates	28594.3	28856.5	28974.9	29203.0						
HS23081059-01MSD					UNK	08/28/23 03:09:02 pm	4.530	28940	0.57		
	Replicates	28750.0	28884.3	28979.5	29146.3						
HS23081059-02					UNK	08/28/23 03:10:44 pm	0.014	-7	18.20		
	Replicates	-17.9	13.8	-0.2	-21.9						
HS23081059-03					UNK	08/28/23 03:12:26 pm	0.026	73	12.68		
	Replicates	77.1	76.1	94.8	43.1						
CCV					UNK	08/28/23 03:14:27 pm	4.980	31824	0.09		
	Replicates	31814.1	31866.2	31809.5	31807.9						
CCB					UNK	08/28/23 03:16:11 pm	0.009	-37	55.86		
	Replicates	-6.6	-10.6	-60.1	-71.8						

Calibration for 306_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\082923A.b\
Analysis File: 082923A.batch.bin
DA Date-Time: 8/29/2023 11:29:01 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	299CALB.d	CAL BLK	8/29/2023 11:14:46 PM
2	300CALS.d	2/10/200	8/29/2023 11:16:43 PM
3	301CALS.d	5/25/500	8/29/2023 11:18:41 PM
4	302CALS.d	10/50/100	8/29/2023 11:20:37 PM
5	303CALS.d	100/500/10K	8/29/2023 11:22:34 PM
6	304CALS.d	200/1000/20K	8/29/2023 11:24:27 PM

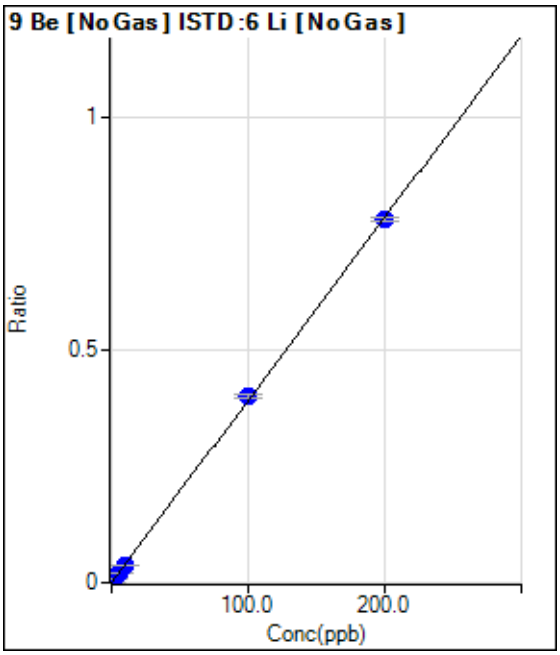
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36308.40	0.0587	P	1.3
2	☐	2.000	2.003	52957.41	0.0846	P	1.1
3	☐	5.000	4.940	77513.84	0.1225	P	0.8
4	☐	10.000	10.067	117877.35	0.1888	P	2.2
5	☐	100.000	101.176	826558.61	1.3658	A	4.1
6	☐	200.000	199.410	1551795.70	2.6348	A	1.1

y = 0.0129 * x + 0.0587
R = 1.0000
DL = 0.1715
BEC = 4.544

Weight: <None>
Min Conc: <None>

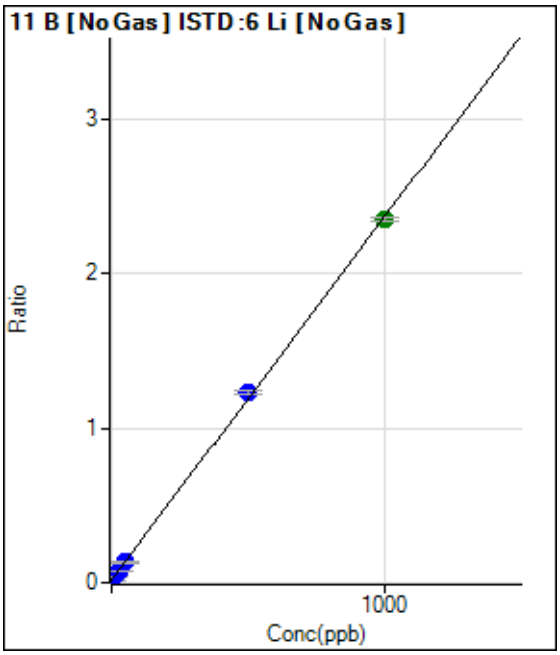


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.33	0.0000	P	19.9
2	☐	2.000	1.928	4752.51	0.0076	P	3.1
3	☐	5.000	4.848	12031.89	0.0190	P	3.2
4	☐	10.000	9.707	23758.45	0.0380	P	1.1
5	☐	100.000	102.198	242131.56	0.4000	P	2.4
6	☐	200.000	198.920	458569.84	0.7786	P	0.9

y = 0.0039 * x + 4.5785E-005
R = 0.9999
DL = 0.006994
BEC = 0.0117

Weight: <None>
Min Conc: <None>

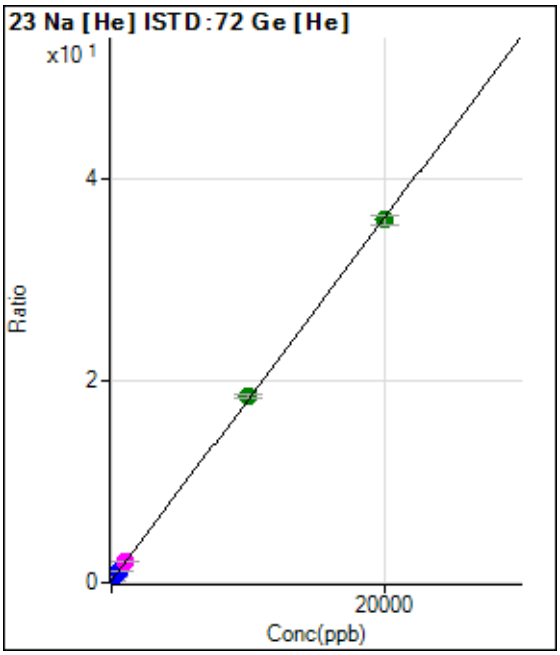
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10465.63	0.0169	P	1.2
2	☐	10.000	9.158	24084.05	0.0385	P	0.6
3	☐	25.000	23.483	45655.64	0.0722	P	0.9
4	☐	50.000	48.929	82443.85	0.1320	P	3.0
5	☐	500.000	515.997	745032.59	1.2308	P	1.6
6	☐	1000.000	992.101	1384543.36	2.3509	A	1.0

y = 0.0024 * x + 0.0169
R = 0.9998
DL = 0.2662
BEC = 7.193

Weight: <None>
Min Conc: <None>

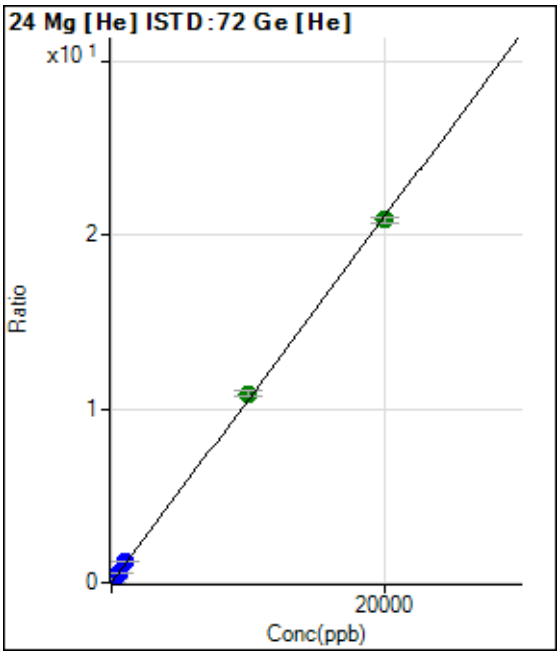


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62640.73	0.1747	P	3.3
2	☐	200.000	211.785	205607.71	0.5547	P	2.1
3	☐	500.000	531.026	423842.41	1.1274	P	0.4
4	☐	1000.000	1069.125	784468.19	2.0928	M	3.4
5	☐	10000.000	10199.667	6914750.11	18.4735	A	1.8
6	☐	20000.000	19895.817	13382603.13	35.8690	A	2.5

y = 0.0018 * x + 0.1747
R = 0.9999
DL = 9.715
BEC = 97.4

Weight: <None>
Min Conc: <None>

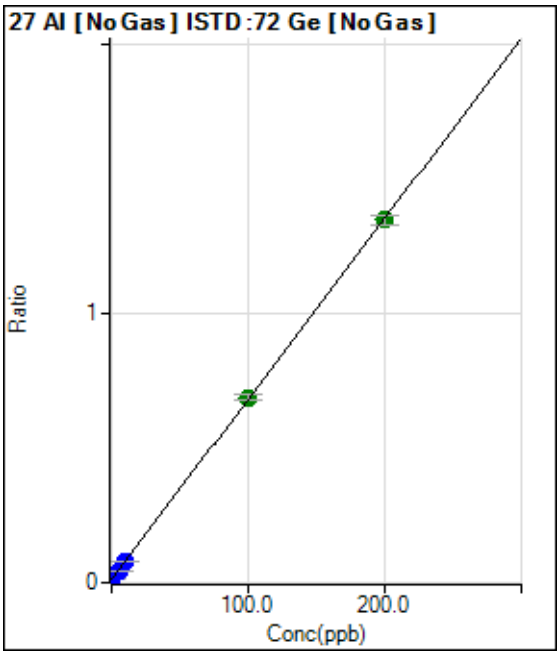
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	510.02	0.0014	P	21.5
2	☐	200.000	218.747	85887.40	0.2317	P	1.5
3	☐	500.000	545.018	216232.08	0.5752	P	0.6
4	☐	1000.000	1113.261	439824.70	1.1734	P	0.9
5	☐	10000.000	10341.256	4074668.90	10.8880	A	2.3
6	☐	20000.000	19822.396	7786065.09	20.8692	A	1.5

y = 0.0011 * x + 0.0014
R = 0.9998
DL = 0.8715
BEC = 1.352

Weight: <None>
Min Conc: <None>

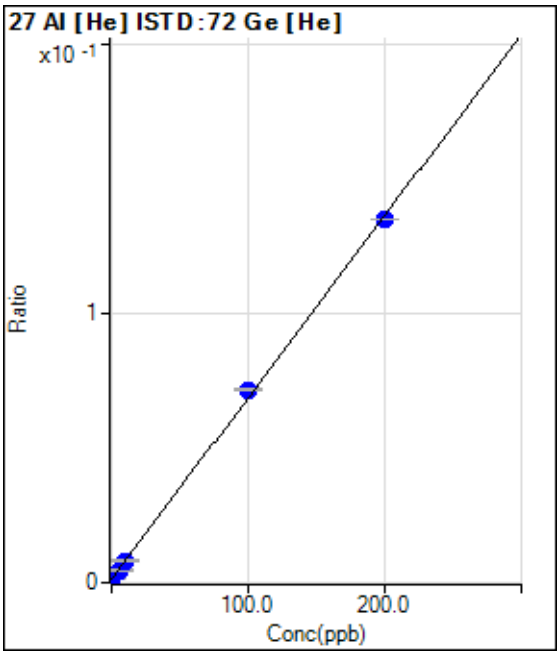


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19170.11	0.0115	P	0.2
2	☐	2.000	2.350	47479.05	0.0272	P	2.4
3	☐	5.000	4.965	77147.18	0.0447	P	1.2
4	☐	10.000	9.966	137249.31	0.0782	P	1.3
5	☐	100.000	101.083	1175289.64	0.6882	A	3.6
6	☐	200.000	199.457	2211428.30	1.3468	A	2.5

y = 0.0067 * x + 0.0115
R = 1.0000
DL = 0.01098
BEC = 1.717

Weight: <None>
Min Conc: <None>

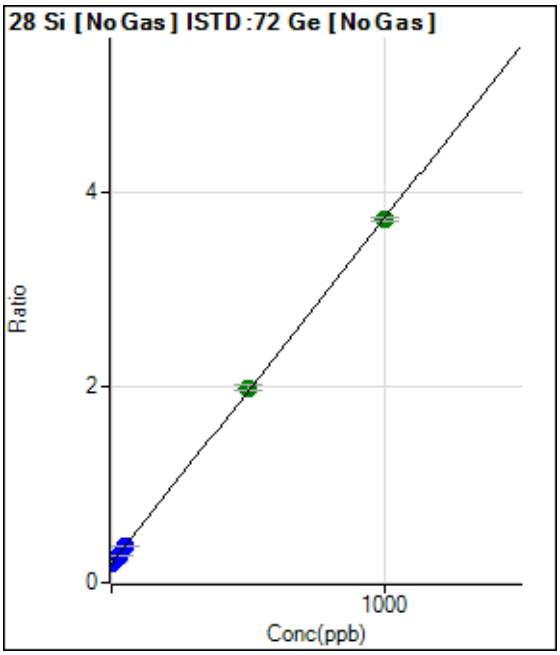
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	463.35	0.0013	P	14.8
2	☐	2.000	2.414	1083.41	0.0029	P	10.0
3	☐	5.000	4.901	1730.14	0.0046	P	5.5
4	☐	10.000	9.897	2990.37	0.0080	P	6.4
5	☐	100.000	104.231	26836.17	0.0717	P	1.0
6	☐	200.000	197.888	50354.69	0.1350	P	0.1

y = 6.7554E-004 * x + 0.0013
R = 0.9997
DL = 0.8498
BEC = 1.913

Weight: <None>
Min Conc: <None>

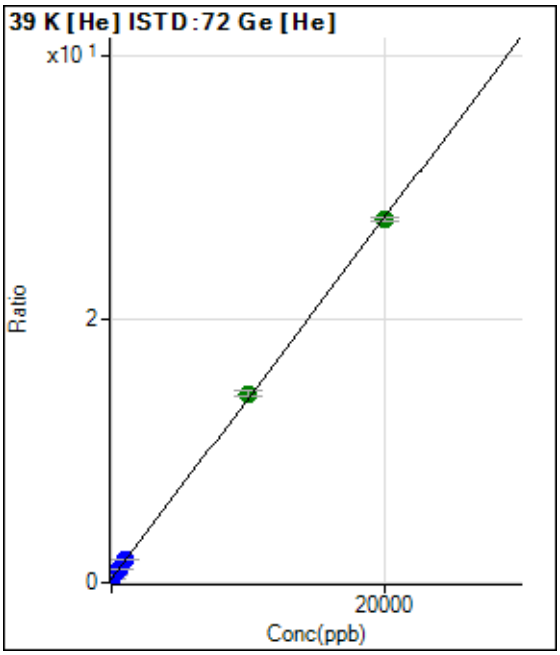


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	326644.79	0.1959	P	1.3
2	☐	10.000	7.982	390511.95	0.2241	P	3.8
3	☐	25.000	24.367	486221.21	0.2820	P	0.8
4	☐	50.000	48.430	643917.15	0.3669	P	1.0
5	☐	500.000	508.999	3404939.01	1.9937	A	2.8
6	☐	1000.000	995.615	6095638.66	3.7124	A	1.1

y = 0.0035 * x + 0.1959
R = 0.9999
DL = 2.097
BEC = 55.46

Weight: <None>
Min Conc: <None>

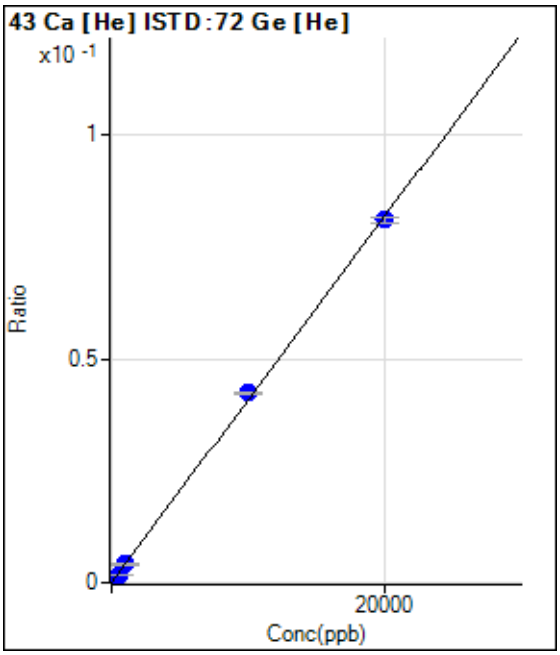
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96314.18	0.2687	P	1.6
2	☐	200.000	201.123	201929.58	0.5448	P	0.8
3	☐	500.000	525.169	372026.86	0.9896	P	0.8
4	☐	1000.000	1072.203	652407.31	1.7406	P	1.8
5	☐	10000.000	10244.305	5363255.13	14.3320	A	2.9
6	☐	20000.000	19873.597	10278372.14	27.5510	A	1.0

y = 0.0014 * x + 0.2687
R = 0.9999
DL = 9.671
BEC = 195.7

Weight: <None>
Min Conc: <None>

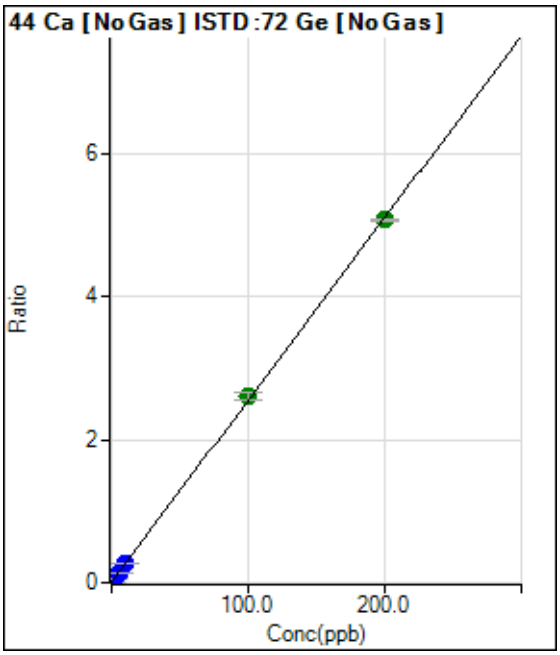


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	99.9
2	☐	200.000	199.761	313.34	0.0008	P	10.5
3	☐	500.000	448.143	700.03	0.0019	P	6.3
4	☐	1000.000	1023.184	1580.12	0.0042	P	9.5
5	☐	10000.000	10359.919	15879.41	0.0424	P	1.3
6	☐	20000.000	19820.180	30270.28	0.0811	P	1.8

y = 4.0924E-006 * x + 2.7929E-005
R = 0.9998
DL = 20.45
BEC = 6.825

Weight: <None>
Min Conc: <None>

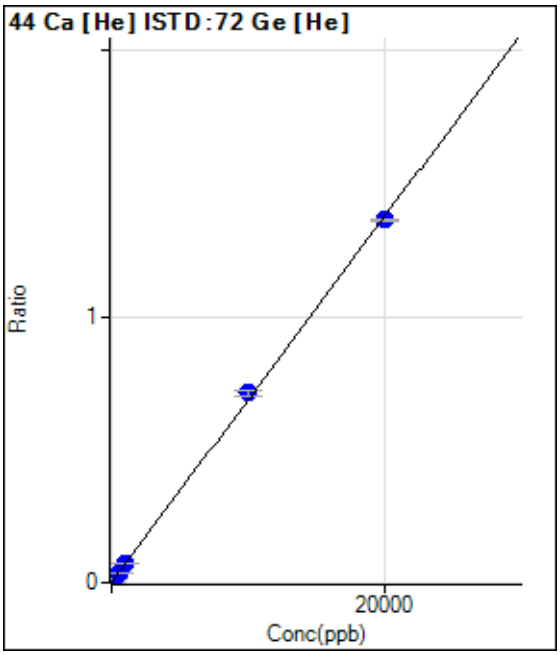
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11571.68	0.0069	P	2.0
2	☐	2.000	1.989	100276.93	0.0575	P	3.0
3	☐	5.000	5.202	240112.30	0.1392	P	2.5
4	☐	10.000	10.354	474280.11	0.2703	P	2.5
5	☐	100.000	101.840	4434528.89	2.5973	A	4.3
6	☐	200.000	199.057	8324522.59	5.0700	A	0.7

y = 0.0254 * x + 0.0069
R = 0.9999
DL = 0.01627
BEC = 0.2728

Weight: <None>
Min Conc: <None>

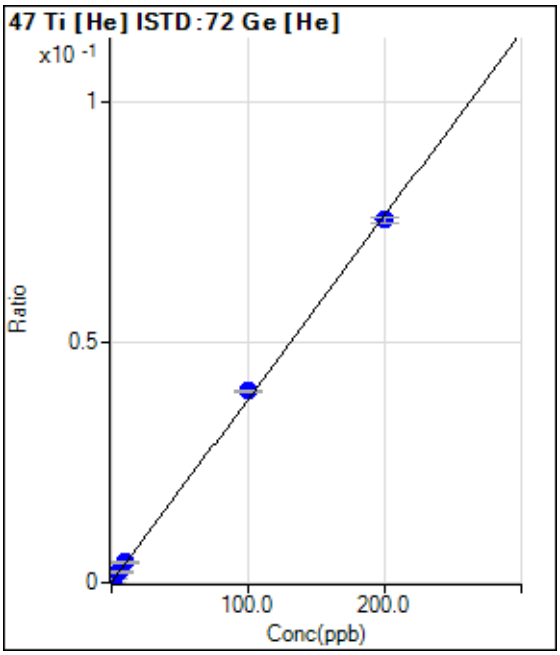


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	260.01	0.0007	P	7.5
2	☐	200.000	200.515	5377.81	0.0145	P	2.3
3	☐	500.000	523.694	13803.79	0.0367	P	5.6
4	☐	1000.000	1036.353	26973.49	0.0720	P	3.0
5	☐	10000.000	10346.480	266419.47	0.7119	P	2.5
6	☐	20000.000	19824.345	508639.39	1.3634	P	0.6

y = 6.8737E-005 * x + 7.2520E-004
R = 0.9998
DL = 2.388
BEC = 10.55

Weight: <None>
Min Conc: <None>

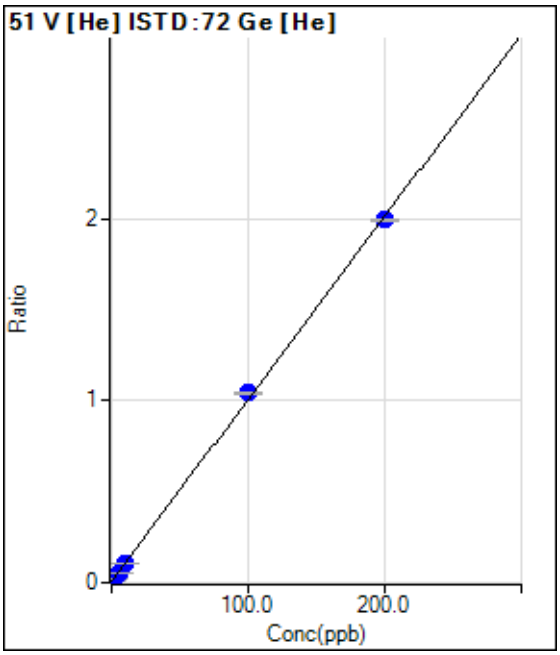
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	86.6
2	☐	2.000	1.980	293.34	0.0008	P	13.0
3	☐	5.000	5.743	836.71	0.0022	P	27.2
4	☐	10.000	11.183	1610.12	0.0043	P	11.0
5	☐	100.000	104.474	14904.94	0.0398	P	0.9
6	☐	200.000	197.685	28102.36	0.0753	P	1.2

y = 3.8084E-004 * x + 3.7189E-005
R = 0.9996
DL = 0.2537
BEC = 0.09765

Weight: <None>
Min Conc: <None>

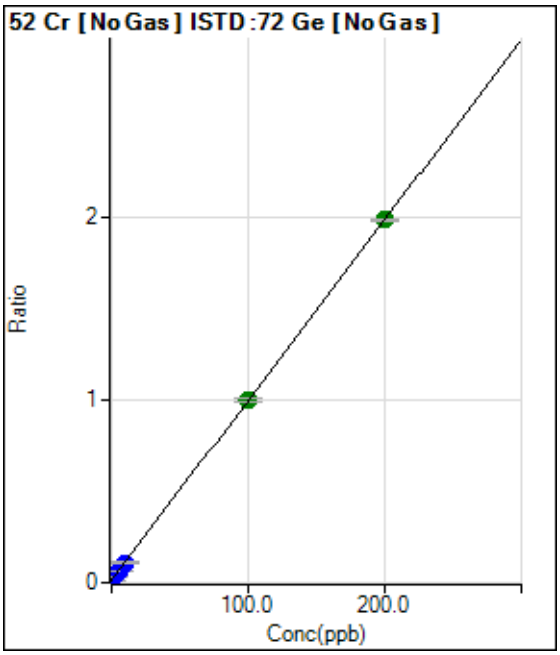


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2109.06	0.0059	P	4.8
2	☐	2.000	1.989	9578.95	0.0258	P	2.1
3	☐	5.000	5.087	21402.29	0.0569	P	1.7
4	☐	10.000	10.077	40104.06	0.1070	P	2.6
5	☐	100.000	103.443	390659.47	1.0438	P	1.4
6	☐	200.000	198.272	744418.25	1.9954	P	0.5

y = 0.0100 * x + 0.0059
R = 0.9998
DL = 0.08417
BEC = 0.5864

Weight: <None>
Min Conc: <None>

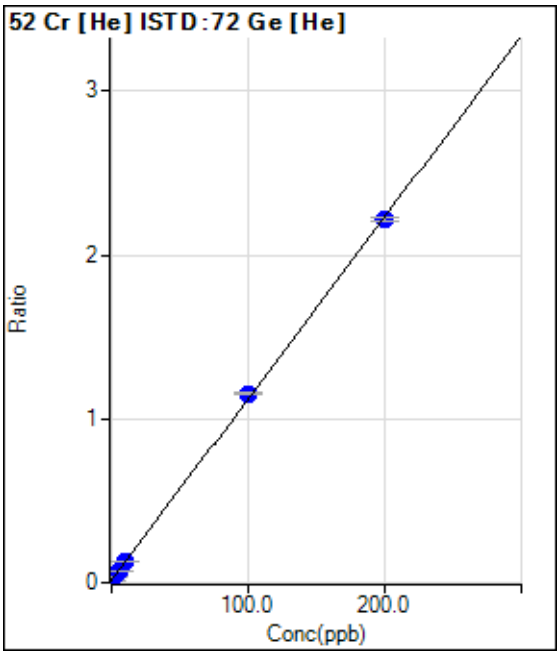
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21861.04	0.0131	P	2.5
2	☐	2.000	1.893	55315.49	0.0317	P	4.6
3	☐	5.000	4.977	107070.18	0.0621	P	1.4
4	☐	10.000	9.798	192217.21	0.1095	P	1.5
5	☐	100.000	99.795	1700019.14	0.9953	A	1.9
6	☐	200.000	200.114	3255295.79	1.9826	A	0.3

y = 0.0098 * x + 0.0131
R = 1.0000
DL = 0.0996
BEC = 1.332

Weight: <None>
Min Conc: <None>

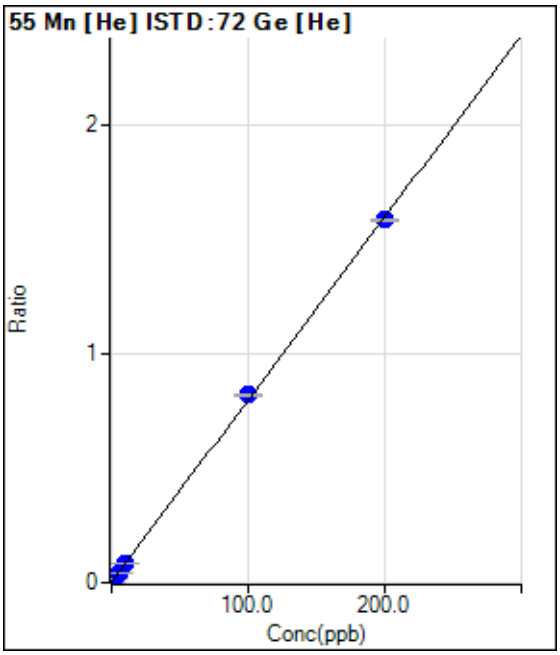


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5481.20	0.0153	P	6.3
2	☐	2.000	1.906	13490.20	0.0364	P	1.9
3	☐	5.000	5.054	26779.90	0.0712	P	0.5
4	☐	10.000	10.202	48061.24	0.1282	P	1.3
5	☐	100.000	102.826	431738.89	1.1536	P	1.6
6	☐	200.000	198.576	825818.89	2.2136	P	1.2

y = 0.0111 * x + 0.0153
R = 0.9999
DL = 0.2596
BEC = 1.381

Weight: <None>
Min Conc: <None>

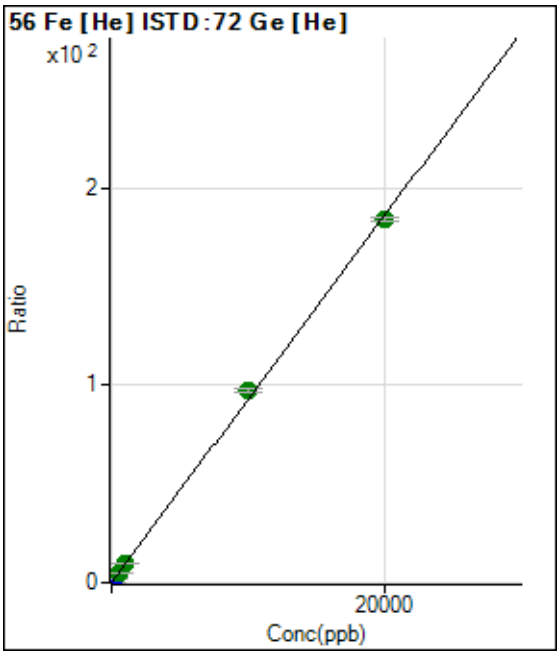
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	906.71	0.0025	P	1.6
2	☐	2.000	1.944	6668.42	0.0180	P	1.9
3	☐	5.000	4.960	15779.33	0.0420	P	1.8
4	☐	10.000	10.258	31526.64	0.0841	P	0.2
5	☐	100.000	102.603	306337.68	0.8185	P	0.6
6	☐	200.000	198.687	590427.19	1.5826	P	0.8

y = 0.0080 * x + 0.0025
R = 0.9999
DL = 0.01515
BEC = 0.318

Weight: <None>
Min Conc: <None>

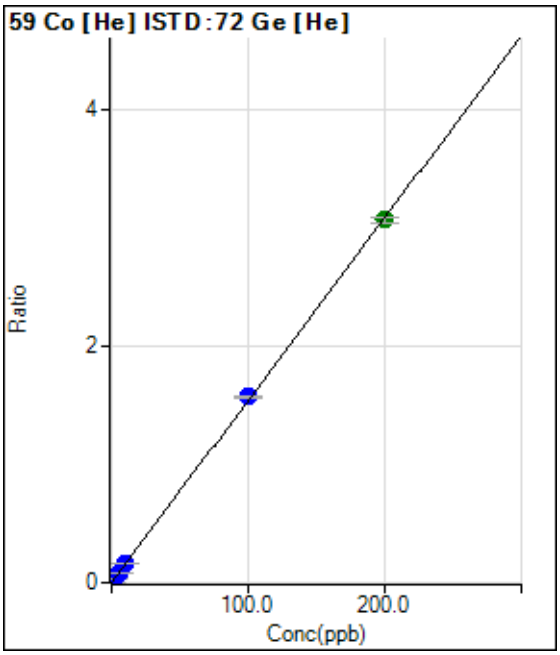


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15252.19	0.0425	P	4.7
2	☐	200.000	206.621	727247.18	1.9620	P	1.6
3	☐	500.000	526.970	1856376.95	4.9379	A	0.7
4	☐	1000.000	1040.444	3638730.47	9.7079	A	1.8
5	☐	10000.000	10456.108	36370238.62	97.1760	A	2.2
6	☐	20000.000	19769.183	68529263.98	183.6911	A	1.1

y = 0.0093 * x + 0.0425
R = 0.9996
DL = 0.6482
BEC = 4.58

Weight: <None>
Min Conc: <None>

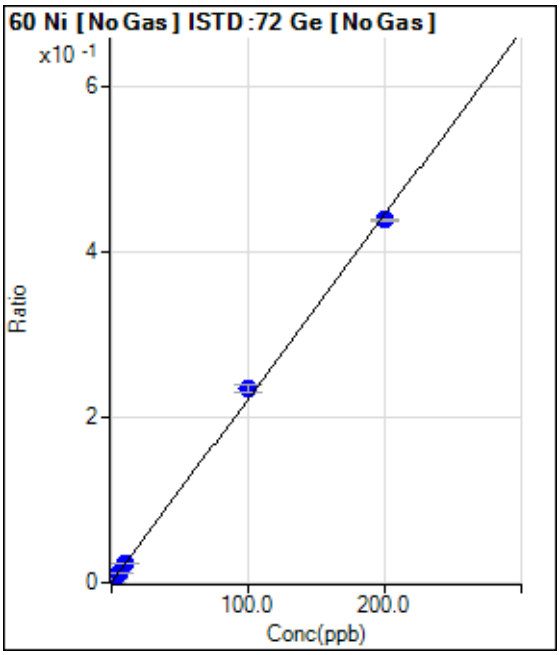
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	126.67	0.0004	P	33.0
2	☐	2.000	1.974	11388.28	0.0307	P	5.3
3	☐	5.000	5.152	29936.62	0.0796	P	0.7
4	☐	10.000	10.276	59399.93	0.1585	P	1.3
5	☐	100.000	101.864	586739.21	1.5678	P	1.4
6	☐	200.000	199.051	1142810.87	3.0632	A	1.7

y = 0.0154 * x + 3.5338E-004
R = 0.9999
DL = 0.02272
BEC = 0.02297

Weight: <None>
Min Conc: <None>

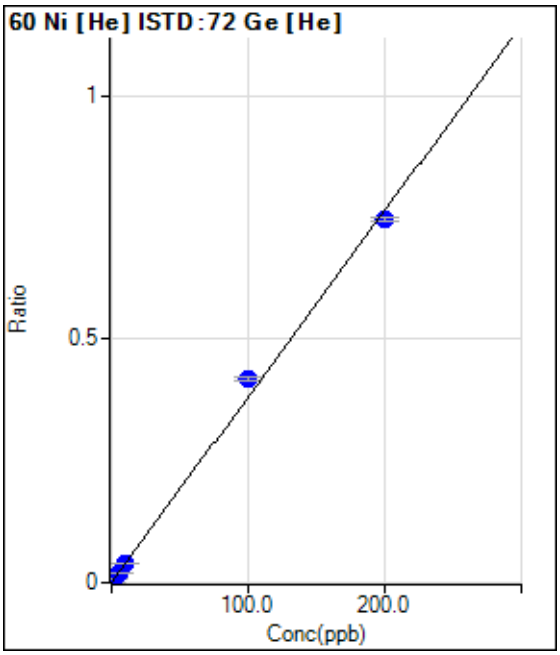


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	403.35	0.0002	P	3.9
2	☐	2.000	1.949	7975.82	0.0046	P	6.3
3	☐	5.000	4.978	19524.31	0.0113	P	1.4
4	☐	10.000	9.925	39183.38	0.0223	P	1.6
5	☐	100.000	105.361	400823.89	0.2347	P	3.5
6	☐	200.000	197.324	721461.06	0.4394	P	0.2

y = 0.0022 * x + 2.4188E-004
R = 0.9995
DL = 0.01277
BEC = 0.1087

Weight: <None>
Min Conc: <None>

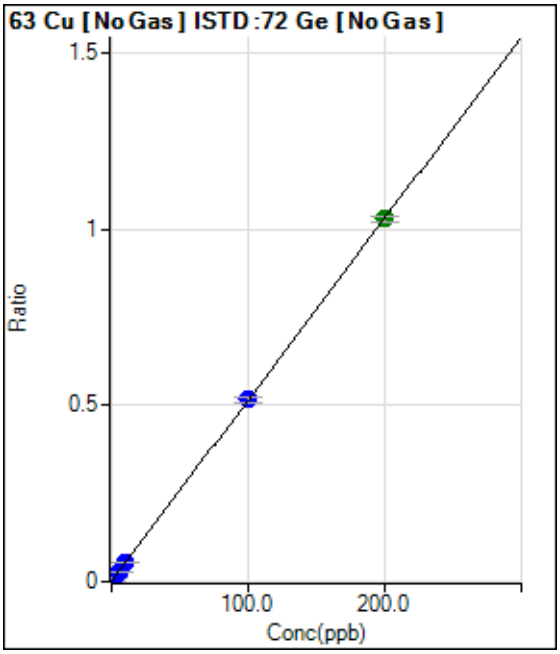
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	123.33	0.0003	P	12.0
2	☐	2.000	1.953	2890.37	0.0078	P	3.9
3	☐	5.000	4.848	7085.30	0.0188	P	2.4
4	☐	10.000	10.299	14865.05	0.0397	P	2.3
5	☐	100.000	109.550	156633.23	0.4185	P	1.4
6	☐	200.000	195.215	278136.34	0.7455	P	1.1

y = 0.0038 * x + 3.4392E-004
R = 0.9984
DL = 0.0325
BEC = 0.0901

Weight: <None>
Min Conc: <None>

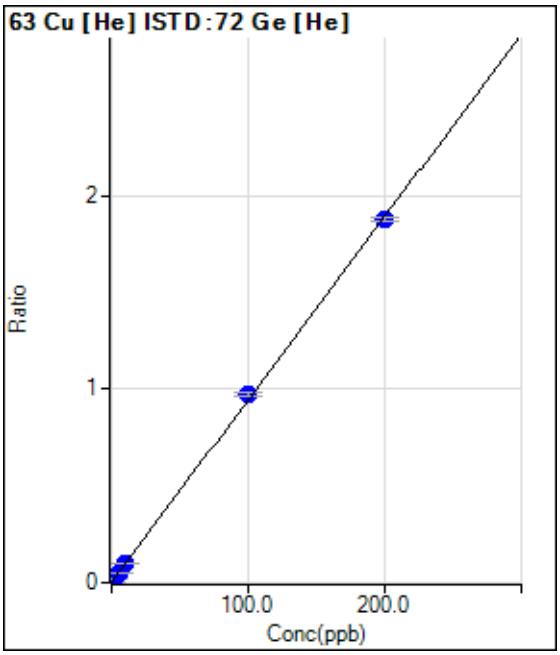


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1343.42	0.0008	P	8.5
2	☐	2.000	1.873	18235.80	0.0105	P	1.6
3	☐	5.000	5.014	45934.59	0.0266	P	3.6
4	☐	10.000	10.031	92104.50	0.0525	P	0.6
5	☐	100.000	100.339	884155.97	0.5178	P	3.2
6	☐	200.000	199.830	1691695.49	1.0303	A	1.5

y = 0.0052 * x + 8.0574E-004
R = 1.0000
DL = 0.03999
BEC = 0.1564

Weight: <None>
Min Conc: <None>

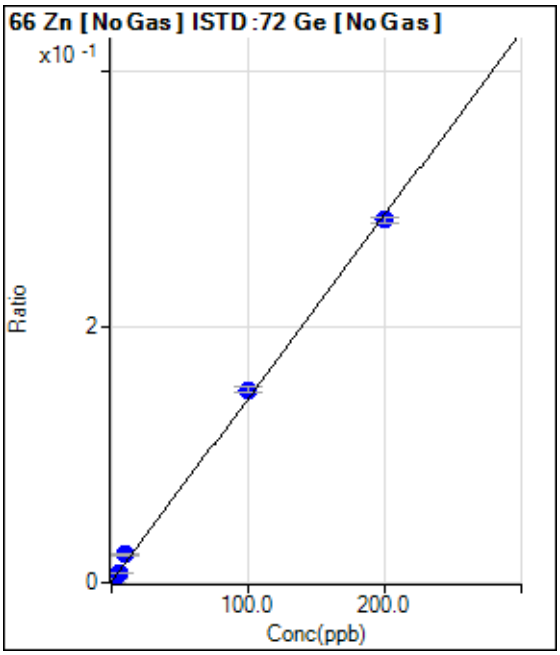
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	496.68	0.0014	P	4.1
2	☐	2.000	2.062	7739.01	0.0209	P	0.6
3	☐	5.000	4.975	18195.82	0.0484	P	0.5
4	☐	10.000	10.144	36455.78	0.0973	P	0.9
5	☐	100.000	103.126	365279.84	0.9760	P	1.4
6	☐	200.000	198.430	700174.81	1.8768	P	1.0

y = 0.0095 * x + 0.0014
R = 0.9998
DL = 0.01819
BEC = 0.1466

Weight: <None>
Min Conc: <None>

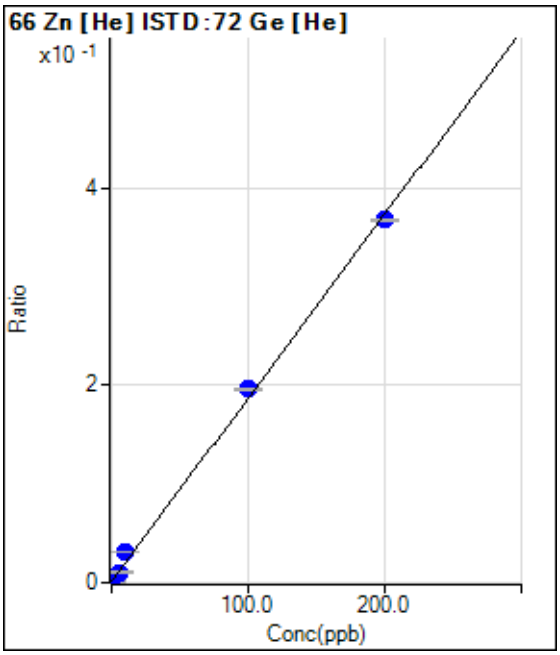


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1196.74	0.0007	P	2.4
2	☐	2.000	1.949	6114.82	0.0035	P	7.6
3	☐	5.000	4.821	13153.23	0.0076	P	5.4
4	☐	10.000	14.974	38922.75	0.0222	P	3.7
5	☐	100.000	104.769	257704.48	0.1509	P	2.7
6	☐	200.000	197.372	465712.99	0.2836	P	1.5

y = 0.0014 * x + 7.1748E-004
R = 0.9993
DL = 0.03604
BEC = 0.5005

Weight: <None>
Min Conc: <None>

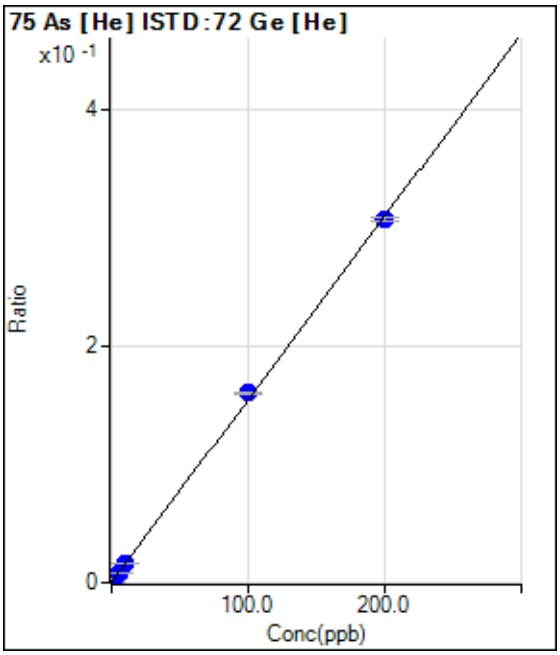
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.35	0.0011	P	18.5
2	☐	2.000	2.153	1880.18	0.0051	P	1.1
3	☐	5.000	5.030	3917.32	0.0104	P	6.8
4	☐	10.000	16.212	11695.22	0.0312	P	3.1
5	☐	100.000	105.116	73528.80	0.1965	P	0.7
6	☐	200.000	197.129	137098.18	0.3675	P	0.8

y = 0.0019 * x + 0.0011
R = 0.9992
DL = 0.3194
BEC = 0.5754

Weight: <None>
Min Conc: <None>

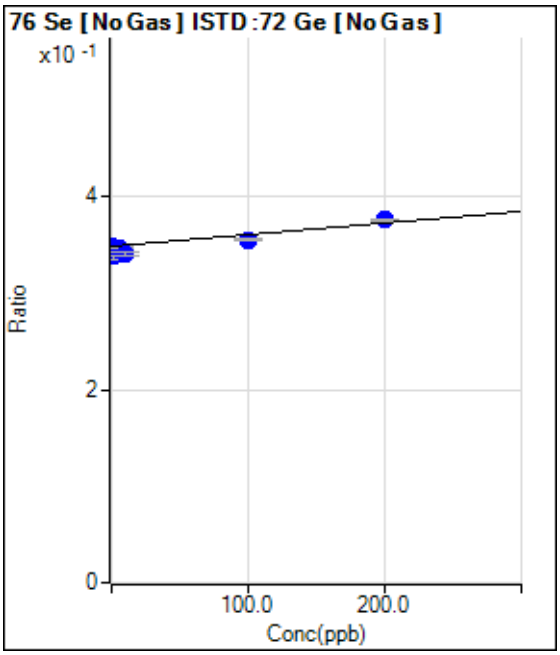


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	112.22	0.0003	P	19.4
2	☐	2.000	2.074	1302.29	0.0035	P	4.3
3	☐	5.000	4.921	2972.57	0.0079	P	2.3
4	☐	10.000	10.173	6001.36	0.0160	P	2.5
5	☐	100.000	103.458	59863.08	0.1600	P	1.2
6	☐	200.000	198.264	114249.59	0.3062	P	0.9

y = 0.0015 * x + 3.1314E-004
R = 0.9998
DL = 0.1181
BEC = 0.2029

Weight: <None>
Min Conc: <None>

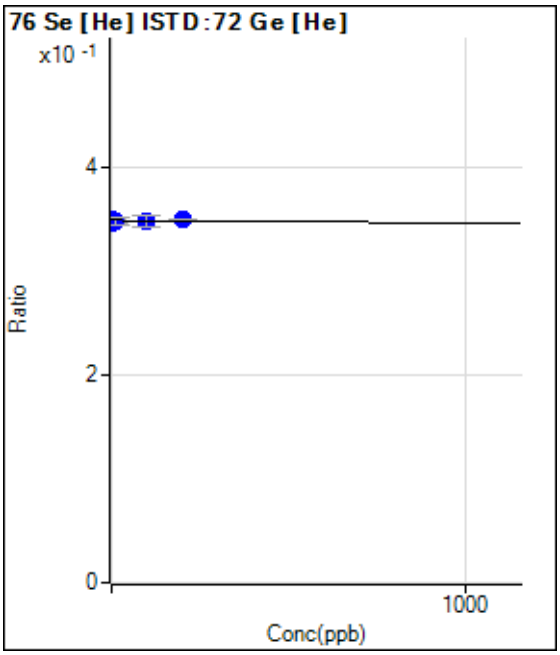
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	581821.74	0.3489	P	1.3
2	☐	2.000	-84.543	590496.02	0.3387	P	2.6
3	☐	5.000	-12.039	599183.99	0.3474	P	0.3
4	☐	10.000	-64.426	598686.72	0.3411	P	1.2
5	☐	100.000	57.582	607827.87	0.3558	P	0.9
6	☐	200.000	226.222	617572.39	0.3761	P	0.7

y = 1.2040E-004 * x + 0.3489
R = 0.9485
DL = 110.7
BEC = 2898

Weight: <None>
Min Conc: <None>

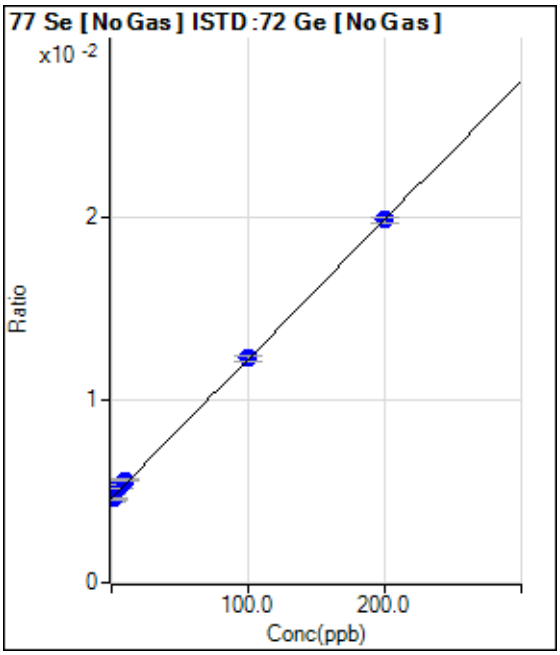


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125160.00	0.3491	P	0.9
2	☐	2.000	725.317	128691.07	0.3472	P	1.3
3	☐	5.000	694.287	130551.42	0.3473	P	0.5
4	☐	10.000	456.354	130403.59	0.3479	P	2.4
5	☐	100.000	571.689	130077.03	0.3476	P	3.3
6	☐	200.000	-82.627	130332.07	0.3493	P	0.5

y = -2.6738E-006 * x + 0.3491
R = 0.5210
DL = -3603
BEC = -1.306E+05

Weight: <None>
Min Conc: <None>

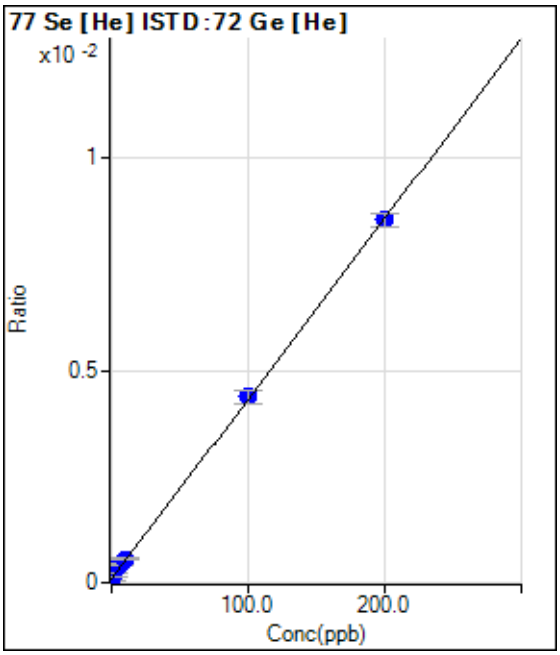
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7719.02	0.0046	P	6.9
2	☐	2.000	-0.094	8052.55	0.0046	P	2.0
3	☐	5.000	8.182	9049.84	0.0052	P	5.0
4	☐	10.000	12.691	9813.72	0.0056	P	1.7
5	☐	100.000	100.121	20926.56	0.0123	P	2.0
6	☐	200.000	199.747	32573.01	0.0198	P	1.3

y = 7.6158E-005 * x + 0.0046
R = 0.9997
DL = 12.65
BEC = 60.74

Weight: <None>
Min Conc: <None>

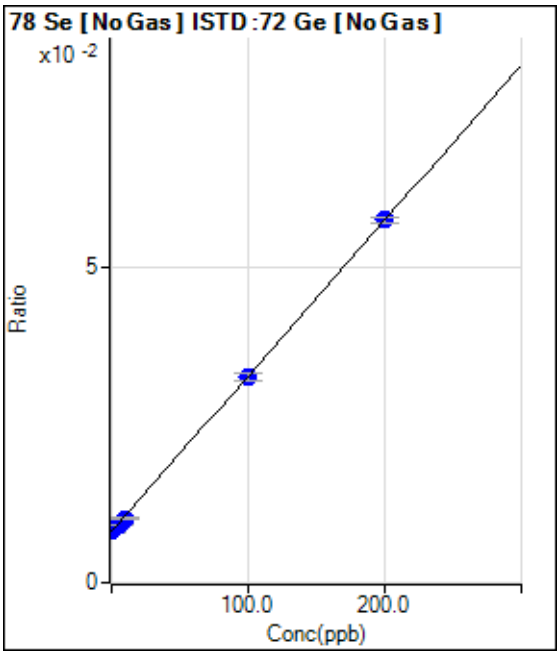


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0001	P	88.2
2	☐	2.000	2.057	63.33	0.0002	P	51.0
3	☐	5.000	8.050	160.00	0.0004	P	6.1
4	☐	10.000	11.012	206.67	0.0006	P	7.6
5	☐	100.000	101.135	1640.13	0.0044	P	7.9
6	☐	200.000	199.305	3190.45	0.0086	P	3.7

y = 4.2489E-005 * x + 8.3552E-005
R = 0.9999
DL = 5.206
BEC = 1.966

Weight: <None>
Min Conc: <None>

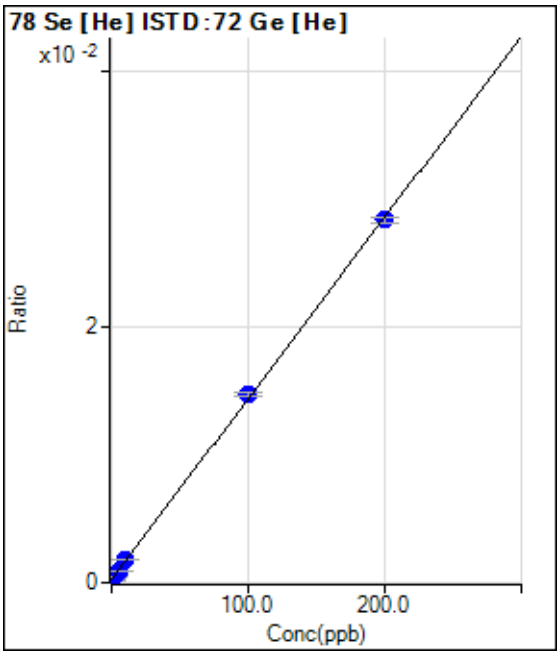
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13583.73	0.0081	P	1.5
2	☐	2.000	1.661	14918.50	0.0086	P	1.8
3	☐	5.000	3.641	15595.93	0.0090	P	0.7
4	☐	10.000	8.226	17855.40	0.0102	P	3.7
5	☐	100.000	99.710	55969.77	0.0328	P	3.7
6	☐	200.000	200.271	94610.97	0.0576	P	1.9

y = 2.4706E-004 * x + 0.0081
R = 1.0000
DL = 1.527
BEC = 32.96

Weight: <None>
Min Conc: <None>

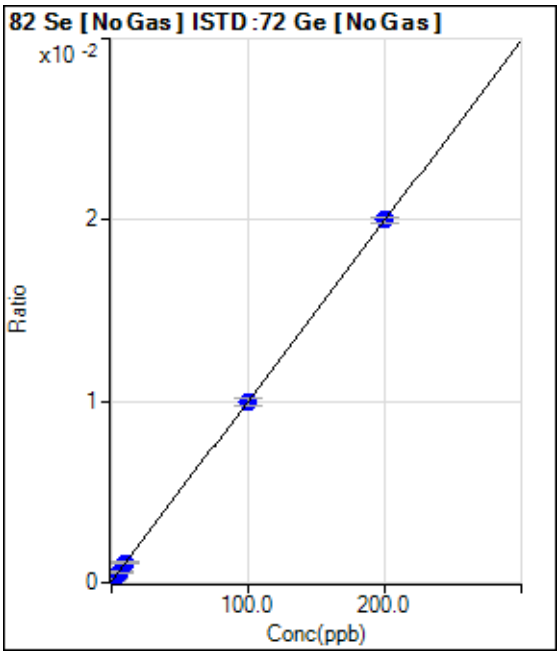


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	84.00	0.0002	P	18.9
2	☐	2.000	2.013	192.67	0.0005	P	17.0
3	☐	5.000	4.787	343.34	0.0009	P	6.0
4	☐	10.000	10.877	666.02	0.0018	P	2.4
5	☐	100.000	102.390	5521.82	0.0148	P	2.6
6	☐	200.000	198.766	10603.52	0.0284	P	1.8

y = 1.4182E-004 * x + 2.3439E-004
R = 0.9999
DL = 0.938
BEC = 1.653

Weight: <None>
Min Conc: <None>

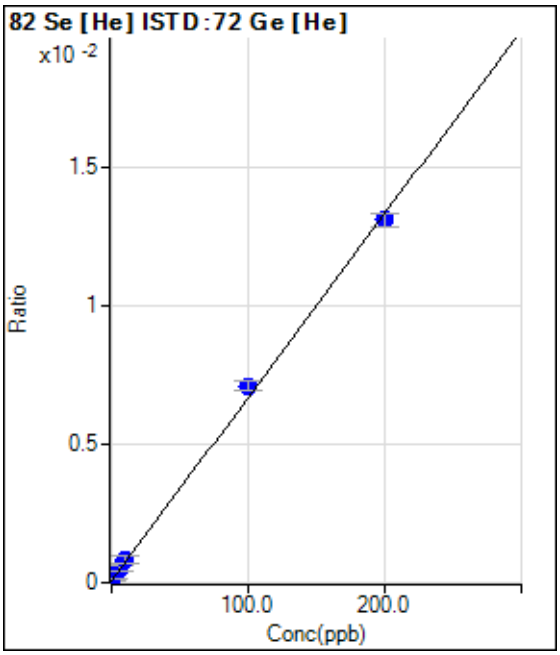
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	142.23	0.0001	P	32.3
2	☐	2.000	1.751	451.89	0.0003	P	13.4
3	☐	5.000	4.780	965.56	0.0006	P	12.5
4	☐	10.000	9.894	1875.33	0.0011	P	10.1
5	☐	100.000	99.117	16962.96	0.0099	P	4.1
6	☐	200.000	200.455	32839.55	0.0200	P	1.7

y = 9.9355E-005 * x + 8.5239E-005
R = 1.0000
DL = 0.8303
BEC = 0.8579

Weight: <None>
Min Conc: <None>

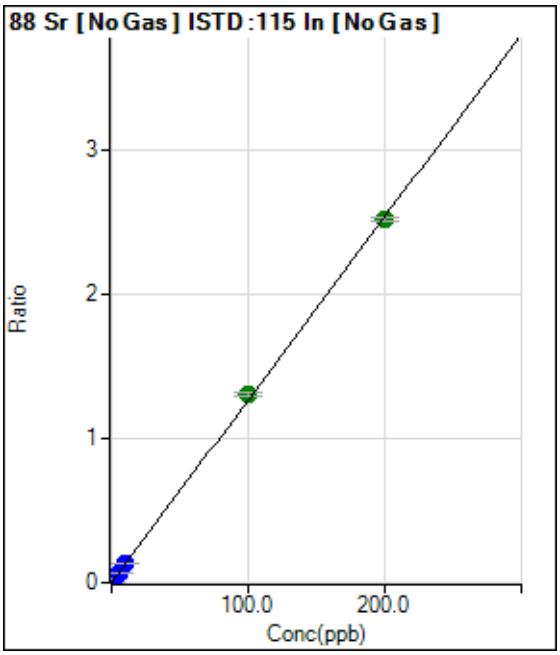


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0001	P	24.8
2	☐	2.000	2.685	90.00	0.0002	P	57.7
3	☐	5.000	6.652	190.01	0.0005	P	39.6
4	☐	10.000	11.380	306.68	0.0008	P	29.4
5	☐	100.000	106.193	2653.64	0.0071	P	4.8
6	☐	200.000	196.786	4880.97	0.0131	P	3.9

y = 6.6150E-005 * x + 6.5087E-005
R = 0.9993
DL = 0.7309
BEC = 0.9839

Weight: <None>
Min Conc: <None>

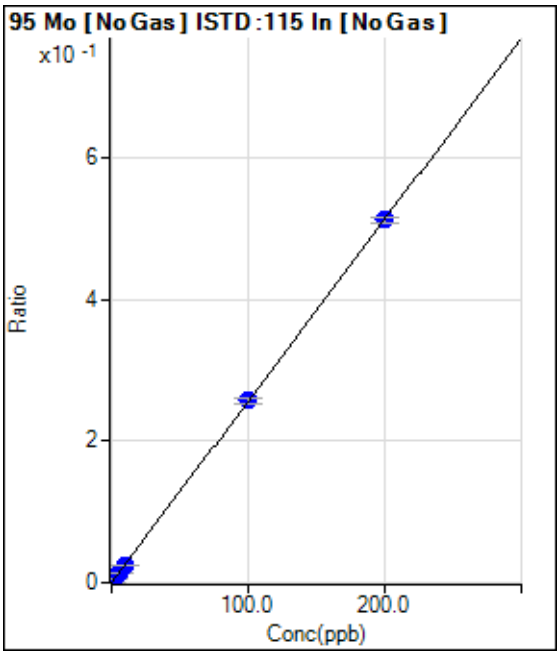
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	690.03	0.0004	P	8.7
2	☐	2.000	2.011	48655.59	0.0259	P	2.7
3	☐	5.000	5.077	125400.89	0.0648	P	1.9
4	☐	10.000	10.092	251485.54	0.1284	P	2.2
5	☐	100.000	102.889	2530650.74	1.3052	A	1.5
6	☐	200.000	198.549	4760331.07	2.5183	A	1.0

y = 0.0127 * x + 3.7281E-004
R = 0.9999
DL = 0.007644
BEC = 0.0294

Weight: <None>
Min Conc: <None>

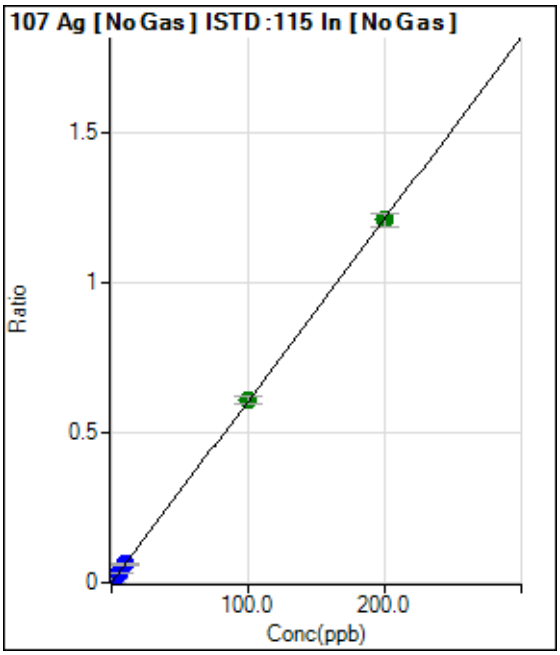


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	156.67	0.0001	P	11.9
2	☐	2.000	1.918	9390.15	0.0050	P	5.5
3	☐	5.000	4.828	24092.22	0.0124	P	1.7
4	☐	10.000	9.707	48843.04	0.0249	P	2.0
5	☐	100.000	100.202	497328.38	0.2566	P	2.5
6	☐	200.000	199.919	967381.18	0.5118	P	1.7

y = 0.0026 * x + 8.4501E-005
R = 1.0000
DL = 0.01176
BEC = 0.03301

Weight: <None>
Min Conc: <None>

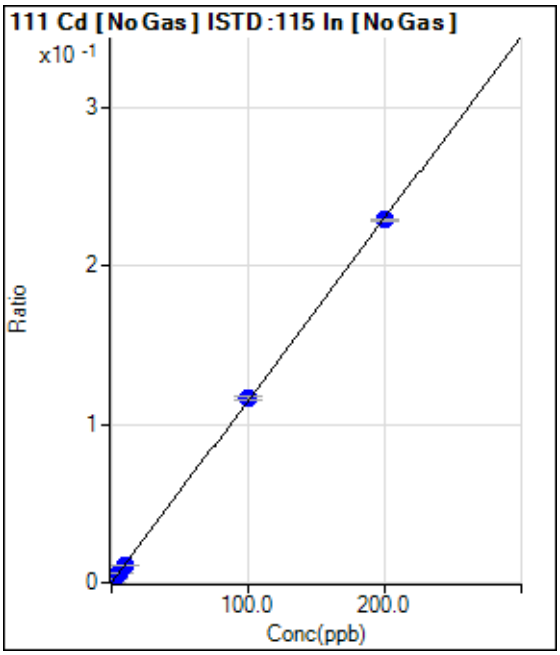
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0001	P	26.7
2	☐	2.000	1.968	22509.51	0.0120	P	4.9
3	☐	5.000	4.946	58094.49	0.0300	P	3.2
4	☐	10.000	10.059	119439.82	0.0610	P	1.4
5	☐	100.000	100.801	1182885.16	0.6103	A	4.3
6	☐	200.000	199.598	2284197.36	1.2084	A	3.4

y = 0.0061 * x + 6.1353E-005
R = 1.0000
DL = 0.008105
BEC = 0.01013

Weight: <None>
Min Conc: <None>

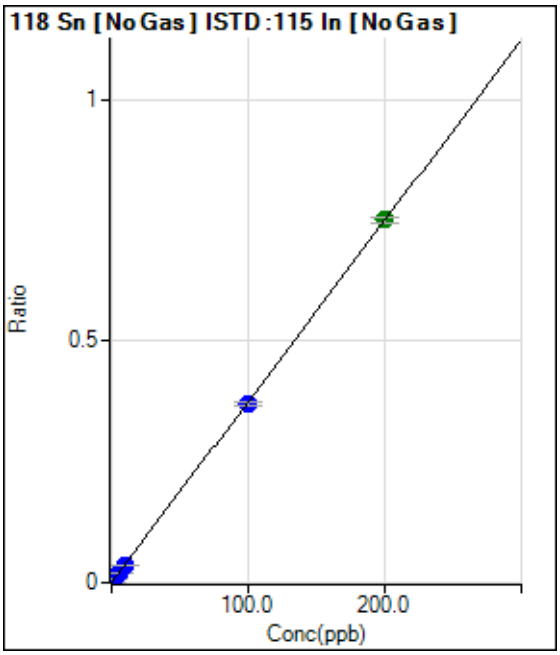


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9.27	0.0000	P	293.8
2	☐	2.000	2.006	4348.90	0.0023	P	6.3
3	☐	5.000	5.109	11393.64	0.0059	P	2.1
4	☐	10.000	9.821	22148.01	0.0113	P	2.9
5	☐	100.000	101.667	226789.53	0.1170	P	1.8
6	☐	200.000	199.172	433193.23	0.2292	P	0.7

y = 0.0012 * x + 5.0194E-006
R = 0.9999
DL = 0.03845
BEC = 0.004362

Weight: <None>
Min Conc: <None>

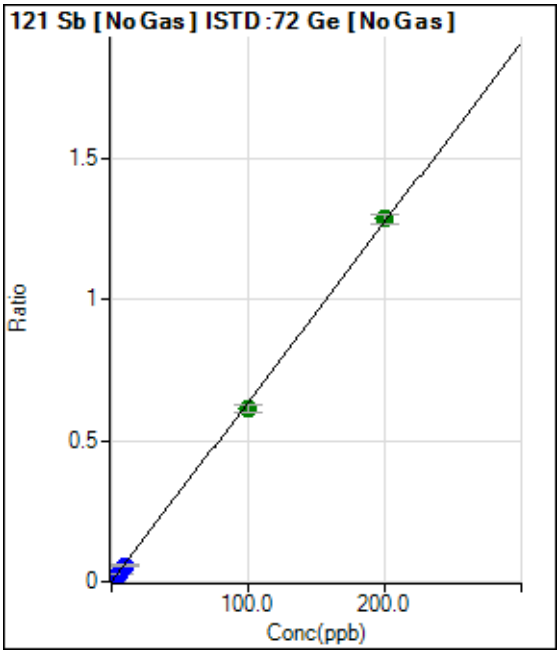
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	766.83	0.0004	P	42.4
2	☐	2.000	1.921	14284.64	0.0076	P	4.4
3	☐	5.000	4.745	35167.40	0.0182	P	1.2
4	☐	10.000	9.572	70955.01	0.0362	P	1.2
5	☐	100.000	99.057	719054.78	0.3709	P	1.6
6	☐	200.000	200.500	1418236.02	0.7503	A	1.6

y = 0.0037 * x + 4.1512E-004
R = 1.0000
DL = 0.1413
BEC = 0.111

Weight: <None>
Min Conc: <None>

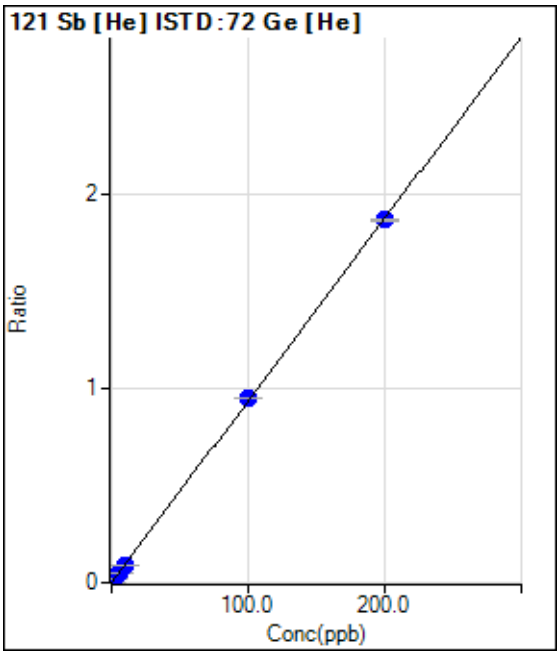


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	25.3
2	☐	2.000	1.723	19307.92	0.0111	P	3.9
3	☐	5.000	4.604	50731.95	0.0294	P	2.4
4	☐	10.000	9.023	100994.21	0.0576	P	2.1
5	☐	100.000	96.162	1045628.63	0.6124	A	4.5
6	☐	200.000	201.981	2111726.95	1.2861	A	2.5

y = 0.0064 * x + 1.0569E-004
R = 0.9998
DL = 0.01259
BEC = 0.0166

Weight: <None>
Min Conc: <None>

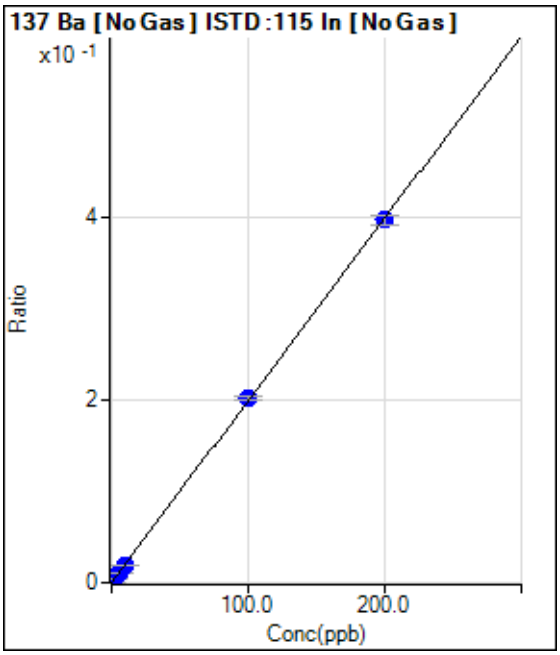
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0002	P	38.1
2	☐	2.000	1.806	6338.33	0.0171	P	7.1
3	☐	5.000	4.918	17391.79	0.0463	P	0.9
4	☐	10.000	9.615	33830.67	0.0903	P	2.3
5	☐	100.000	101.227	354999.07	0.9485	P	0.6
6	☐	200.000	199.410	697027.41	1.8683	P	0.6

y = 0.0094 * x + 1.8613E-004
R = 1.0000
DL = 0.02268
BEC = 0.01987

Weight: <None>
Min Conc: <None>

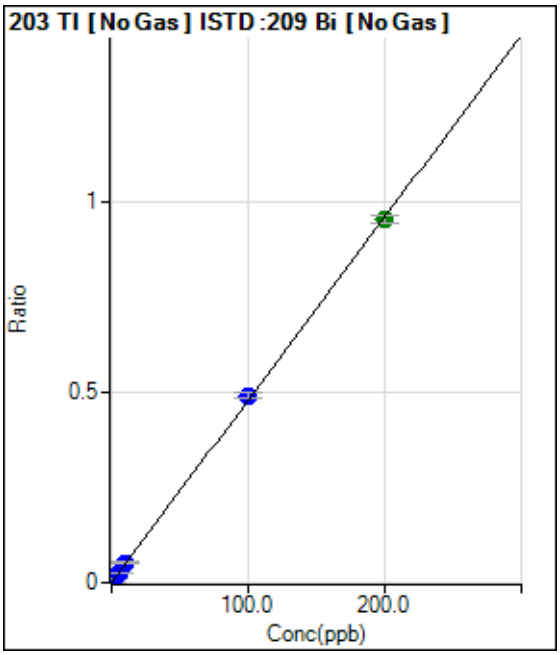


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.34	0.0001	P	29.0
2	☐	2.000	2.077	7949.25	0.0042	P	2.9
3	☐	5.000	4.932	19207.83	0.0099	P	3.8
4	☐	10.000	9.734	38186.85	0.0195	P	2.7
5	☐	100.000	101.454	392236.62	0.2023	P	2.1
6	☐	200.000	199.287	751084.21	0.3974	P	2.4

y = 0.0020 * x + 8.8185E-005
R = 1.0000
DL = 0.03854
BEC = 0.04424

Weight: <None>
Min Conc: <None>

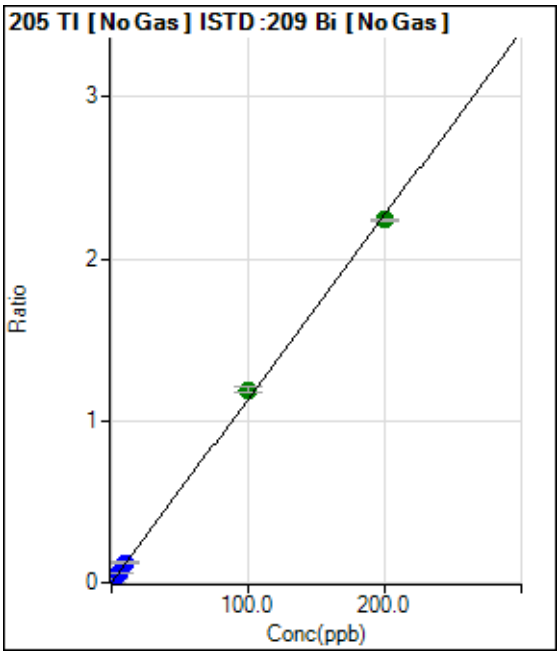
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	233.34	0.0002	P	31.2
2	☐	2.000	2.085	14705.60	0.0102	P	3.0
3	☐	5.000	5.296	37015.44	0.0256	P	2.4
4	☐	10.000	10.875	74968.70	0.0524	P	3.3
5	☐	100.000	102.460	707376.24	0.4919	P	2.5
6	☐	200.000	198.718	1389040.76	0.9538	A	2.0

y = 0.0048 * x + 1.6962E-004
R = 0.9999
DL = 0.03306
BEC = 0.03534

Weight: <None>
Min Conc: <None>

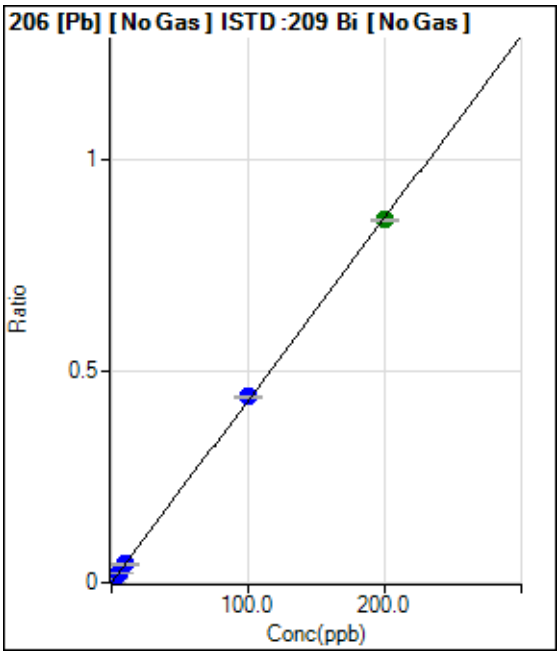


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	526.69	0.0004	P	9.2
2	☐	2.000	2.050	34150.50	0.0236	P	2.2
3	☐	5.000	5.359	88554.29	0.0612	P	0.7
4	☐	10.000	10.903	177748.15	0.1241	P	2.5
5	☐	100.000	105.044	1715295.91	1.1926	A	2.2
6	☐	200.000	197.424	3263153.81	2.2410	A	0.8

y = 0.0113 * x + 3.8360E-004
R = 0.9996
DL = 0.00934
BEC = 0.0338

Weight: <None>
Min Conc: <None>

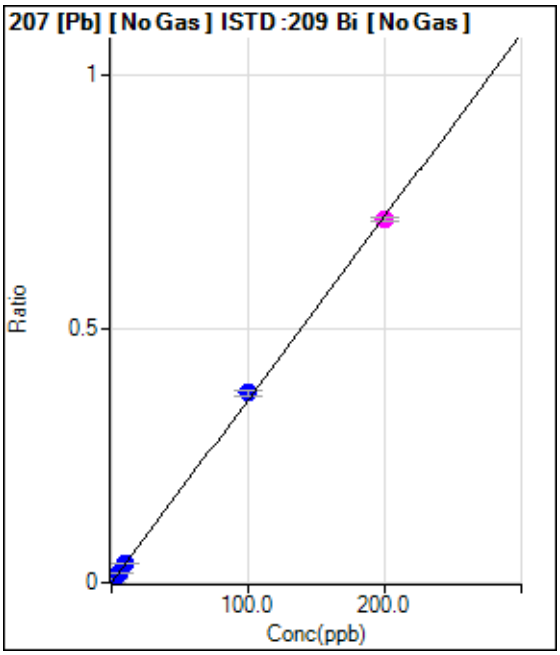
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0001	P	20.8
2	☐	2.000	1.936	12179.52	0.0084	P	3.2
3	☐	5.000	4.944	30968.94	0.0214	P	0.8
4	☐	10.000	10.034	62071.76	0.0434	P	4.3
5	☐	100.000	102.031	633036.49	0.4401	P	1.3
6	☐	200.000	198.985	1249676.86	0.8583	A	0.8

y = 0.0043 * x + 8.2594E-005
R = 0.9999
DL = 0.01193
BEC = 0.01915

Weight: <None>
Min Conc: <None>

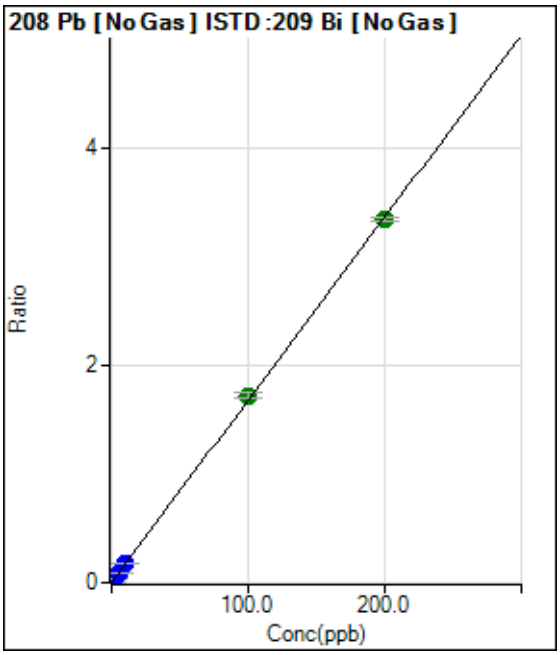


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	116.67	0.0001	P	13.9
2	☐	2.000	1.922	10140.99	0.0070	P	2.6
3	☐	5.000	4.929	25853.97	0.0179	P	2.9
4	☐	10.000	10.327	53495.29	0.0374	P	1.7
5	☐	100.000	103.511	537274.86	0.3736	P	2.4
6	☐	200.000	198.231	1041718.21	0.7154	M	1.1

y = 0.0036 * x + 8.5050E-005
R = 0.9998
DL = 0.009839
BEC = 0.02357

Weight: <None>
Min Conc: <None>

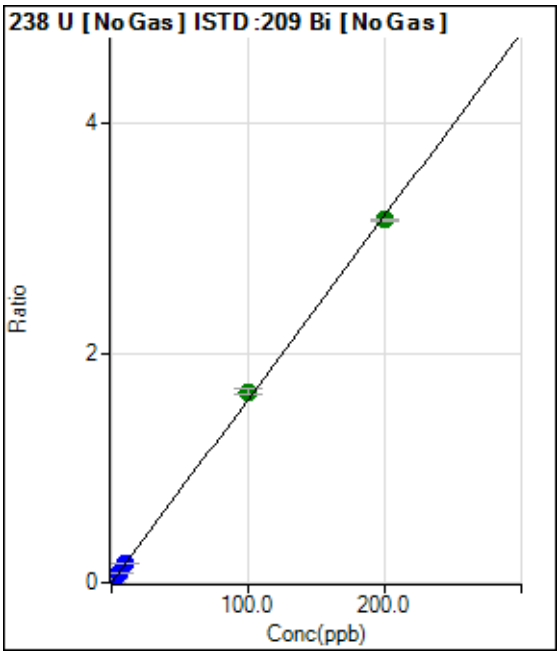
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	540.01	0.0004	P	10.4
2	☐	2.000	1.959	48181.02	0.0334	P	3.4
3	☐	5.000	4.953	121169.44	0.0838	P	1.8
4	☐	10.000	10.196	246289.76	0.1720	P	2.3
5	☐	100.000	102.553	2482469.80	1.7263	A	2.9
6	☐	200.000	198.715	4869667.27	3.3446	A	1.0

y = 0.0168 * x + 3.9335E-004
R = 0.9999
DL = 0.007283
BEC = 0.02337

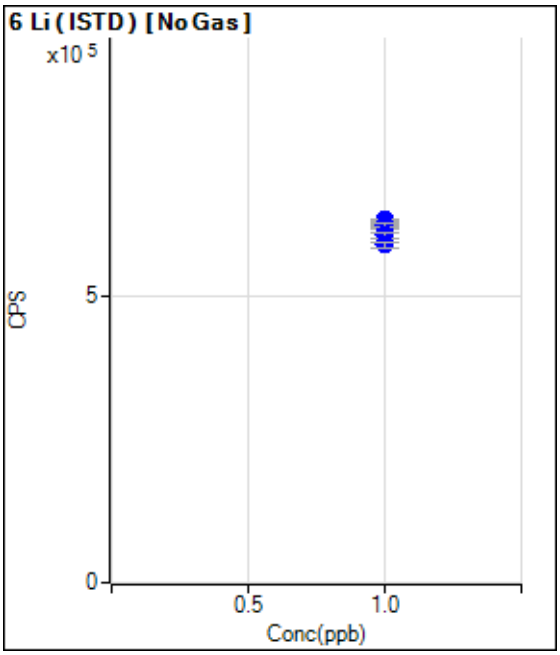
Weight: <None>
Min Conc: <None>



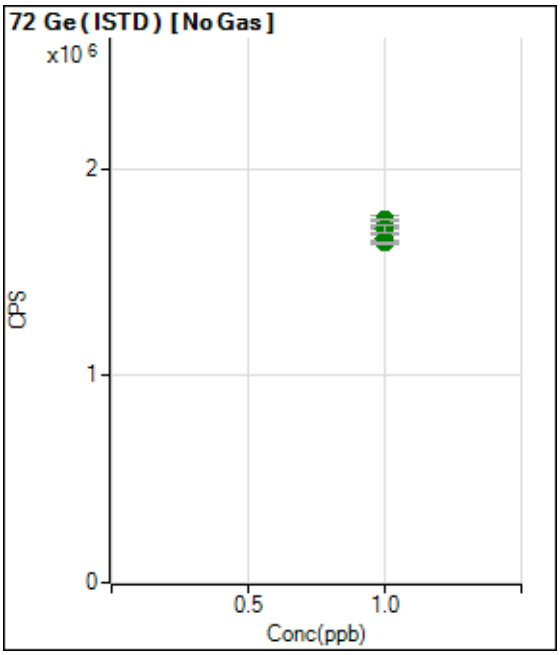
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0001	P	26.3
2	☐	2.000	1.881	43581.54	0.0302	P	3.4
3	☐	5.000	4.865	112653.68	0.0779	P	0.6
4	☐	10.000	10.041	229999.69	0.1606	P	1.7
5	☐	100.000	104.260	2396207.46	1.6662	A	2.9
6	☐	200.000	197.873	4603910.97	3.1620	A	0.3

y = 0.0160 * x + 1.2369E-004
R = 0.9997
DL = 0.00611
BEC = 0.007741

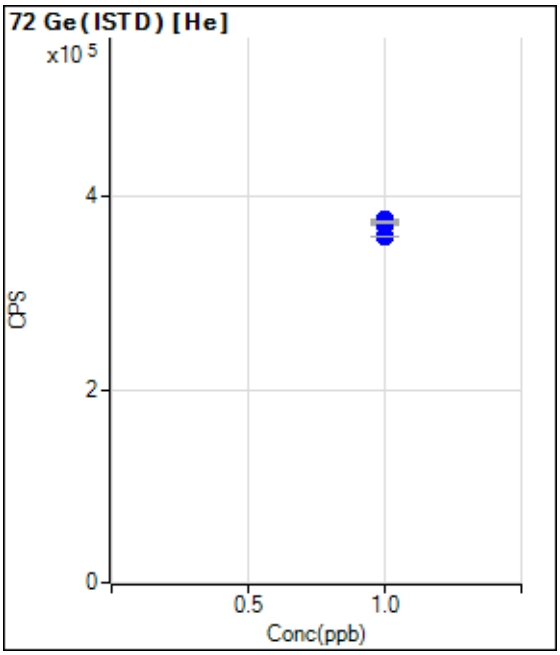
Weight: <None>
Min Conc: <None>



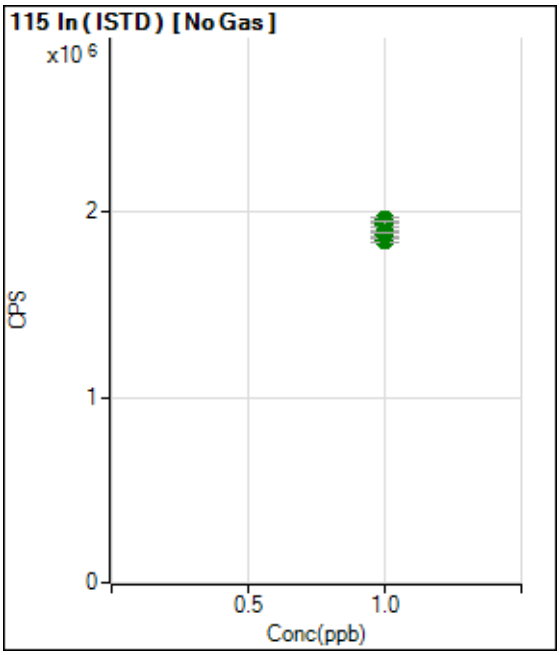
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		618497.13		P	0.5
2	☐	1.000		626128.50		P	0.9
3	☐	1.000		632678.27		P	0.9
4	☐	1.000		624572.32		P	1.0
5	☐	1.000		605369.58		P	1.2
6	☐	1.000		589012.70		P	1.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1667714.40		A	1.4
2	☐	1.000		1744421.07		A	3.8
3	☐	1.000		1724526.12		A	0.6
4	☐	1.000		1754866.17		A	0.6
5	☐	1.000		1708393.52		A	2.1
6	☐	1.000		1641917.68		A	0.4

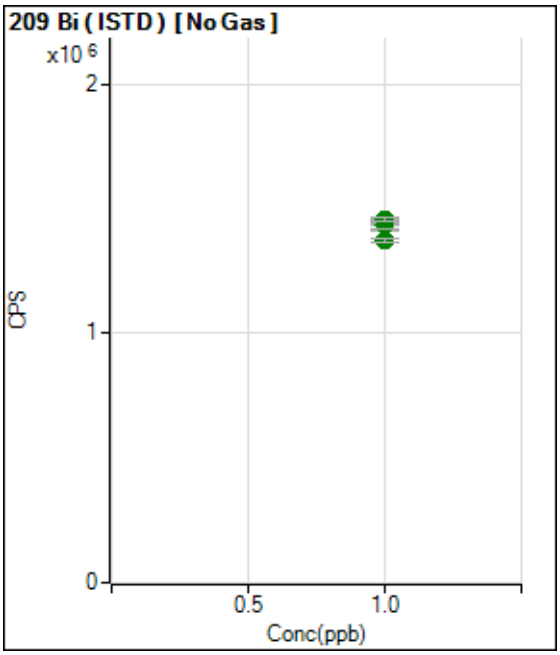


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		358506.91		P	0.4
2	☐	1.000		370678.47		P	0.2
3	☐	1.000		375938.99		P	0.3
4	☐	1.000		374830.71		P	0.2
5	☐	1.000		374277.40		P	0.8
6	☐	1.000		373074.96		P	0.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1852107.83		A	1.5
2	☐	1.000		1880842.80		A	2.1
3	☐	1.000		1936659.76		A	1.1
4	☐	1.000		1959565.97		A	1.4
5	☐	1.000		1939078.77		A	1.9
6	☐	1.000		1890301.54		A	0.3

Calibration for 306_ICV.d



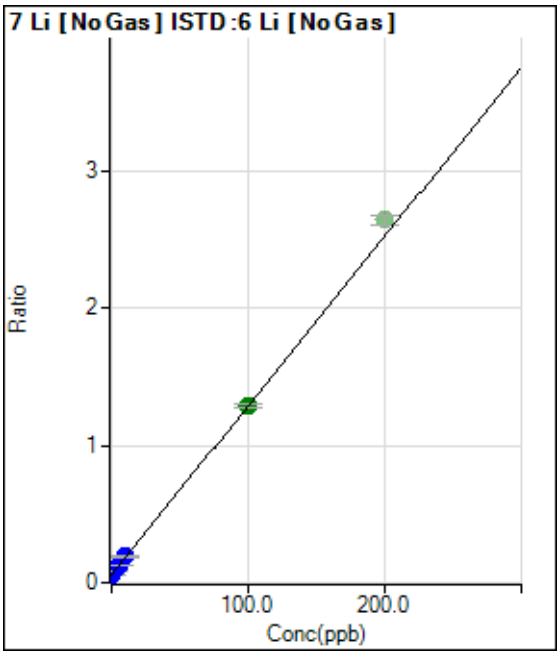
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1372906.44		A	1.0
2	☐	1.000		1444598.10		A	1.7
3	☐	1.000		1446782.32		A	0.6
4	☐	1.000		1432696.59		A	2.9
5	☐	1.000		1438556.59		A	2.1
6	☐	1.000		1456031.02		A	1.1

Calibration for 111_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\082923A.b\
Analysis File: 082923A.batch.bin
DA Date-Time: 8/29/2023 11:05:50 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	104CALB.d	CAL BLK	8/29/2023 2:48:07 PM
2	105CALS.d	2/10/200	8/29/2023 2:50:04 PM
3	106CALS.d	5/25/500	8/29/2023 2:52:01 PM
4	107CALS.d	10/50/100	8/29/2023 2:53:58 PM
5	108CALS.d	100/500/10K	8/29/2023 2:55:55 PM
6	109CALS.d	200/1000/20K	8/29/2023 2:57:47 PM

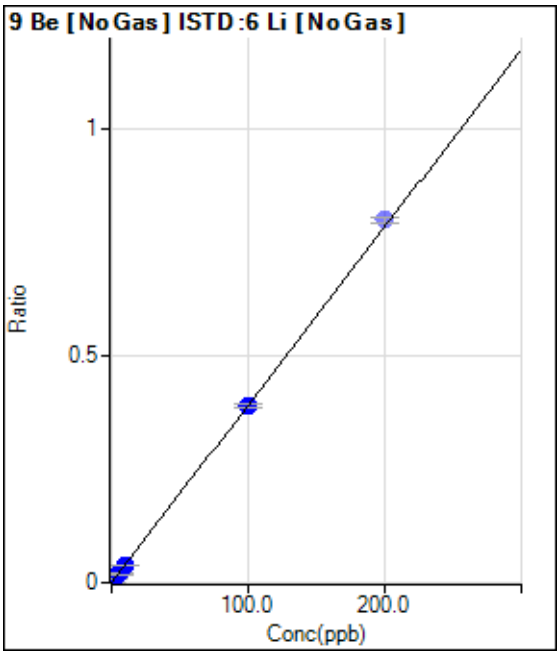
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36136.36	0.0566	P	1.5
2	☐	2.000	2.168	52696.72	0.0833	P	1.8
3	☐	5.000	5.372	77007.50	0.1227	P	0.8
4	☐	10.000	10.801	118089.46	0.1895	P	0.9
5	☐	100.000	99.898	791998.01	1.2862	A	1.8
6	☑	200.000		1527677.32	2.6405	A	2.8

y = 0.0123 * x + 0.0566
R = 1.0000
DL = 0.2053
BEC = 4.598

Weight: <None>
Min Conc: <None>

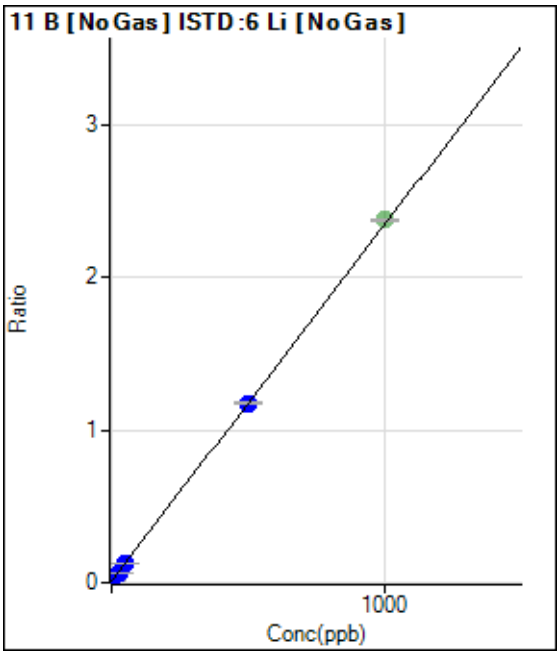


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	42.8
2	☐	2.000	1.932	4802.52	0.0076	P	3.5
3	☐	5.000	4.890	12035.21	0.0192	P	1.4
4	☐	10.000	10.011	24449.61	0.0392	P	1.8
5	☐	100.000	100.006	241292.34	0.3919	P	2.1
6	☑	200.000		462976.35	0.8002	P	1.7

y = 0.0039 * x + 2.0856E-005
R = 1.0000
DL = 0.006833
BEC = 0.005323

Weight: <None>
Min Conc: <None>

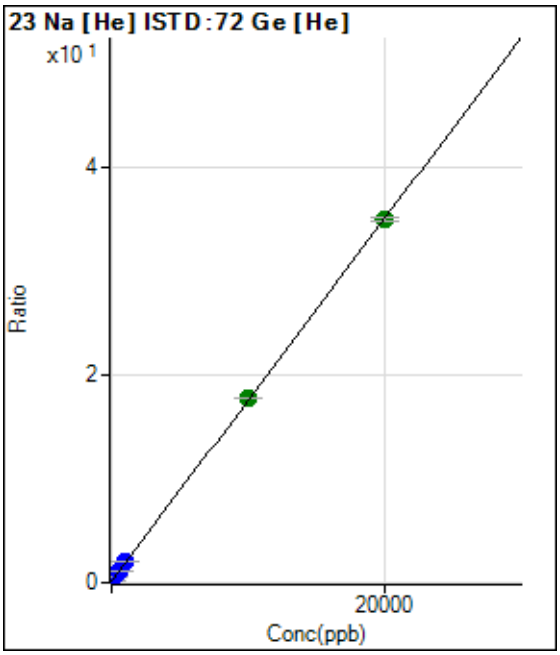
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6529.91	0.0102	P	2.7
2	☐	10.000	9.461	20441.55	0.0323	P	1.7
3	☐	25.000	24.405	42146.52	0.0672	P	3.3
4	☐	50.000	50.066	79142.91	0.1271	P	2.8
5	☐	500.000	500.034	724795.90	1.1771	P	1.6
6	☑	1000.000		1375262.11	2.3766	A	0.5

y = 0.0023 * x + 0.0102
R = 1.0000
DL = 0.3588
BEC = 4.383

Weight: <None>
Min Conc: <None>

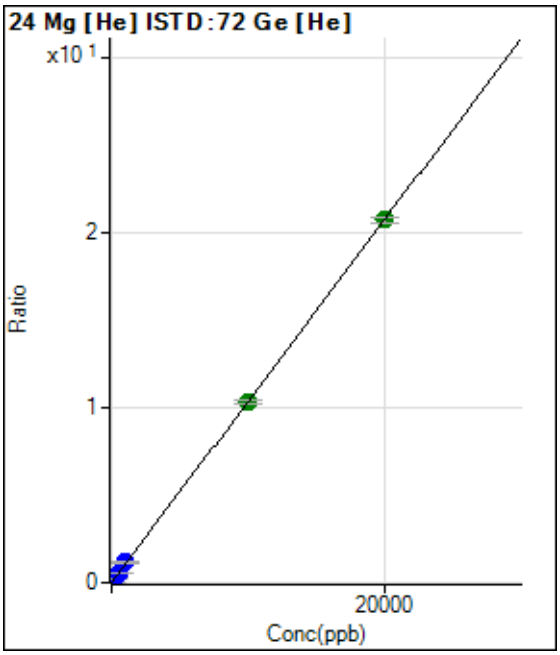


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46313.67	0.1204	P	1.7
2	☐	200.000	211.921	188181.97	0.4907	P	1.2
3	☐	500.000	541.906	407334.82	1.0673	P	0.3
4	☐	1000.000	1103.862	778728.53	2.0492	P	0.1
5	☐	10000.000	10110.154	6782391.98	17.7860	A	0.2
6	☐	20000.000	19938.563	13070903.14	34.9593	A	1.0

y = 0.0017 * x + 0.1204
R = 1.0000
DL = 3.573
BEC = 68.91

Weight: <None>
Min Conc: <None>

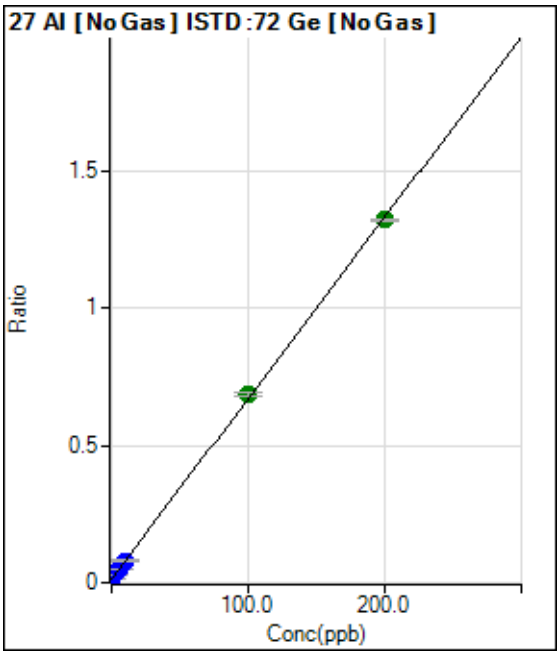
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	410.02	0.0011	P	6.4
2	☐	200.000	215.854	86225.86	0.2248	P	0.6
3	☐	500.000	547.107	216868.16	0.5682	P	1.7
4	☐	1000.000	1117.289	440575.73	1.1594	P	1.0
5	☐	10000.000	9992.480	3951041.19	10.3602	A	2.0
6	☐	20000.000	19996.559	7751084.47	20.7314	A	1.8

y = 0.0010 * x + 0.0011
R = 1.0000
DL = 0.1984
BEC = 1.028

Weight: <None>
Min Conc: <None>

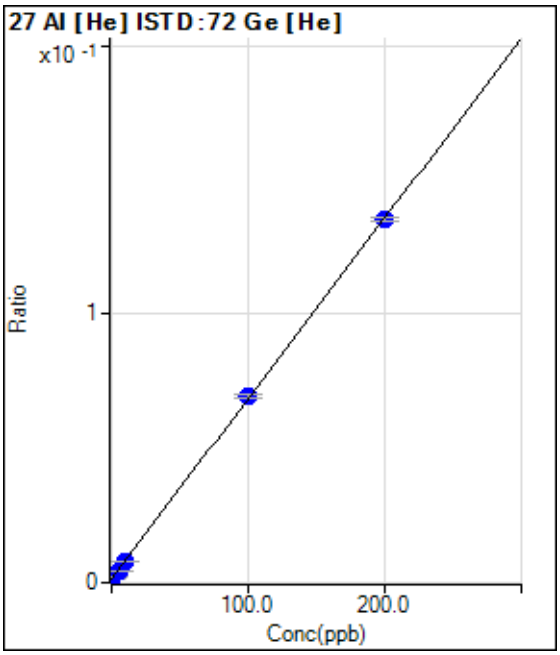


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21533.62	0.0124	P	0.6
2	☐	2.000	2.292	47380.79	0.0275	P	3.3
3	☐	5.000	5.211	78336.83	0.0467	P	2.8
4	☐	10.000	10.333	135717.17	0.0804	P	3.6
5	☐	100.000	102.307	1166565.92	0.6851	A	2.3
6	☐	200.000	198.822	2186986.64	1.3197	A	0.6

y = 0.0066 * x + 0.0124
R = 0.9999
DL = 0.0324
BEC = 1.89

Weight: <None>
Min Conc: <None>

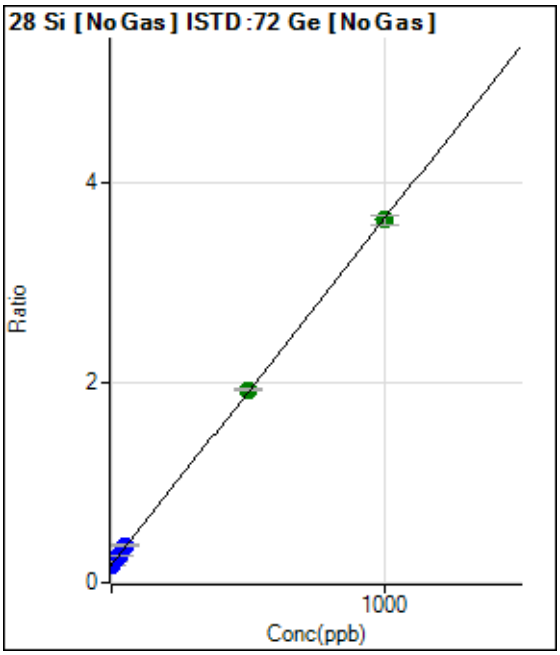
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	513.35	0.0013	P	14.3
2	☐	2.000	2.138	1063.39	0.0028	P	20.4
3	☐	5.000	4.734	1723.47	0.0045	P	2.6
4	☐	10.000	9.932	3043.72	0.0080	P	0.8
5	☐	100.000	101.561	26532.28	0.0696	P	1.6
6	☐	200.000	199.228	50555.41	0.1352	P	1.1

y = 6.7197E-004 * x + 0.0013
R = 1.0000
DL = 0.8505
BEC = 1.987

Weight: <None>
Min Conc: <None>

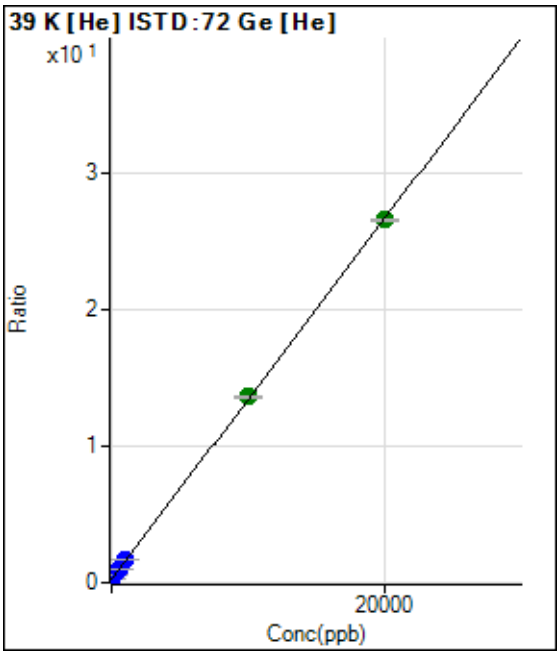


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	310961.79	0.1795	P	0.4
2	☐	10.000	10.457	371772.11	0.2157	P	1.8
3	☐	25.000	28.025	464079.32	0.2766	P	0.7
4	☐	50.000	55.383	627243.76	0.3713	P	2.2
5	☐	500.000	505.877	3289671.83	1.9319	A	1.5
6	☐	1000.000	996.712	6018113.66	3.6321	A	2.3

y = 0.0035 * x + 0.1795
R = 1.0000
DL = 0.6581
BEC = 51.82

Weight: <None>
Min Conc: <None>

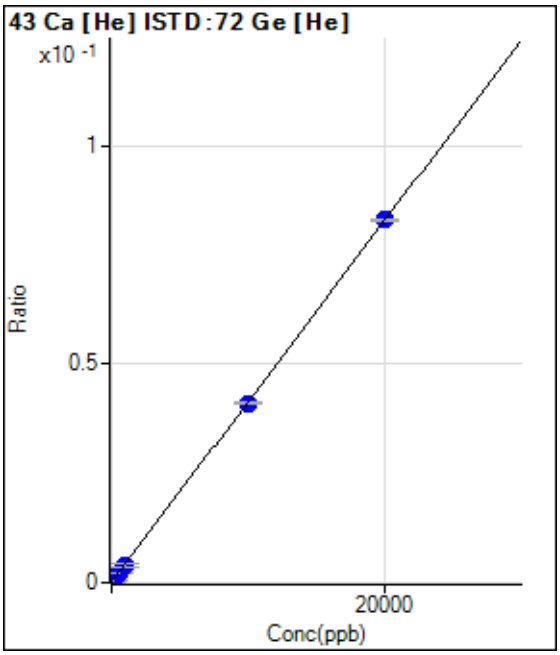
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	89498.66	0.2327	P	0.6
2	☐	200.000	212.522	196985.35	0.5137	P	0.4
3	☐	500.000	535.834	359200.14	0.9412	P	1.1
4	☐	1000.000	1097.617	639941.84	1.6840	P	0.7
5	☐	10000.000	10133.517	5198521.38	13.6317	A	1.1
6	☐	20000.000	19927.340	9938753.39	26.5816	A	0.8

y = 0.0013 * x + 0.2327
R = 1.0000
DL = 3.198
BEC = 176

Weight: <None>
Min Conc: <None>

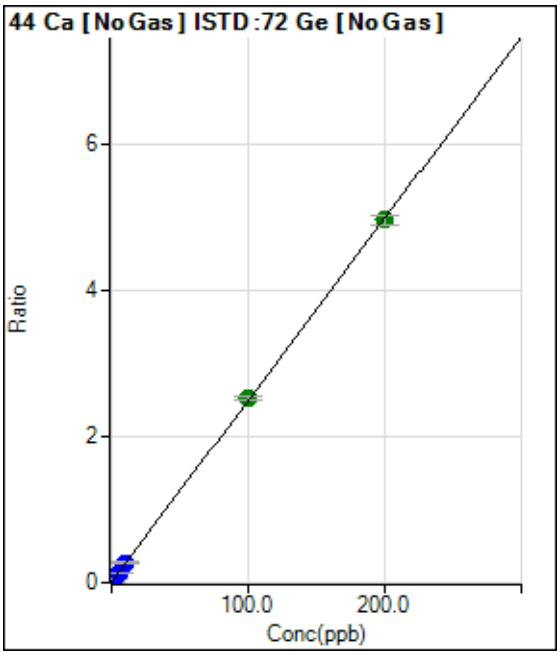


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.00	0.0001	P	24.7
2	☐	200.000	120.100	230.00	0.0006	P	13.4
3	☐	500.000	477.974	793.37	0.0021	P	8.7
4	☐	1000.000	909.563	1466.77	0.0039	P	23.7
5	☐	10000.000	9894.901	15622.43	0.0410	P	1.3
6	☐	20000.000	20058.421	31015.39	0.0829	P	0.4

y = 4.1300E-006 * x + 1.0392E-004
R = 1.0000
DL = 18.65
BEC = 25.16

Weight: <None>
Min Conc: <None>

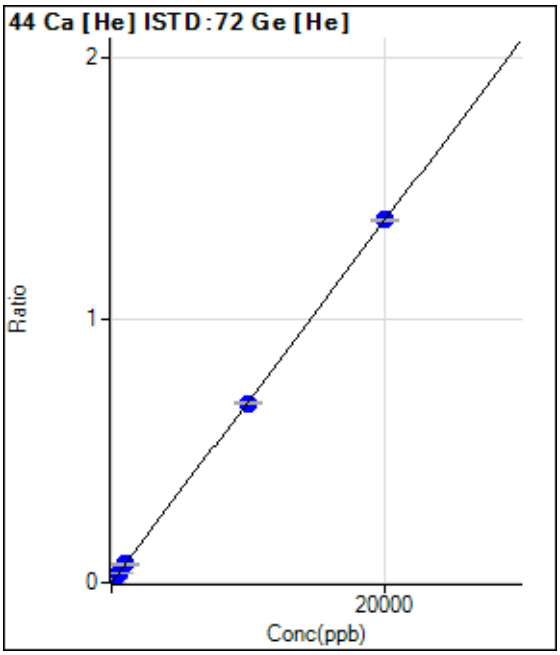
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14184.19	0.0082	P	0.2
2	☐	2.000	2.088	103473.67	0.0600	P	1.7
3	☐	5.000	5.363	237181.36	0.1414	P	1.5
4	☐	10.000	10.718	463400.54	0.2743	P	1.8
5	☐	100.000	101.161	4291560.98	2.5202	A	1.6
6	☐	200.000	199.374	8216252.79	4.9590	A	2.8

y = 0.0248 * x + 0.0082
R = 1.0000
DL = 0.002387
BEC = 0.3297

Weight: <None>
Min Conc: <None>

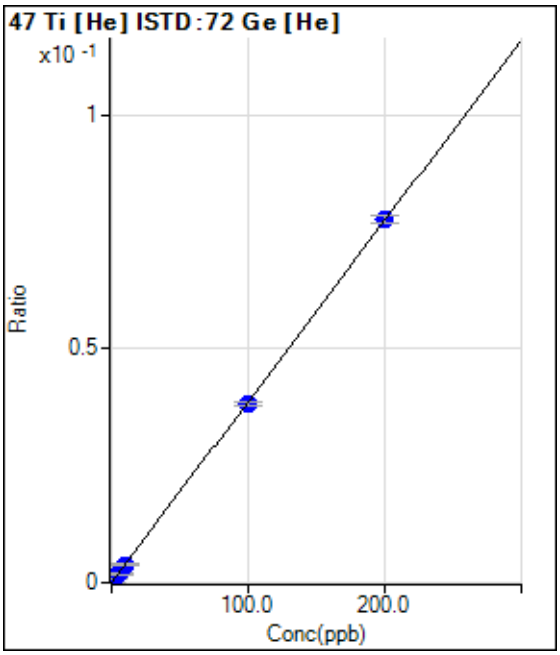


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	273.34	0.0007	P	15.0
2	☐	200.000	194.704	5407.81	0.0141	P	4.3
3	☐	500.000	493.472	13226.56	0.0347	P	1.0
4	☐	1000.000	1000.823	26429.03	0.0696	P	1.9
5	☐	10000.000	9890.921	259720.65	0.6810	P	1.1
6	☐	20000.000	20054.714	516054.63	1.3802	P	0.4

y = 6.8784E-005 * x + 7.1073E-004
R = 1.0000
DL = 4.636
BEC = 10.33

Weight: <None>
Min Conc: <None>

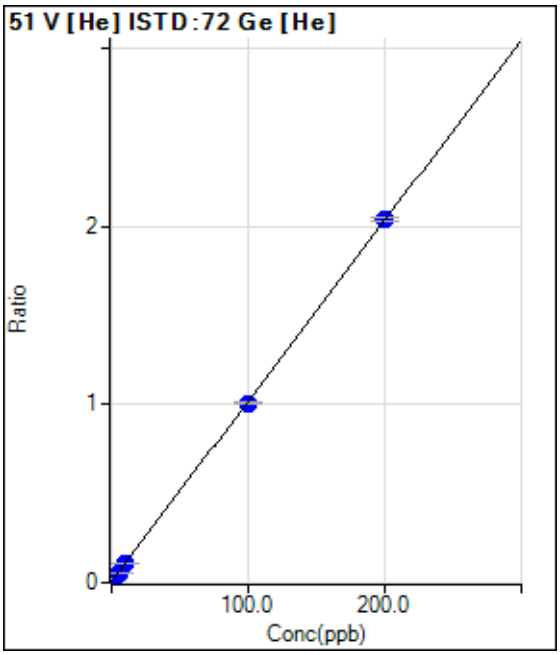
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	114.8
2	☐	2.000	2.316	356.68	0.0009	P	19.5
3	☐	5.000	4.990	750.04	0.0020	P	15.2
4	☐	10.000	9.797	1453.44	0.0038	P	7.3
5	☐	100.000	98.837	14591.36	0.0383	P	1.1
6	☐	200.000	200.589	29021.05	0.0776	P	2.2

y = 3.8679E-004 * x + 3.4797E-005
R = 1.0000
DL = 0.3099
BEC = 0.08996

Weight: <None>
Min Conc: <None>

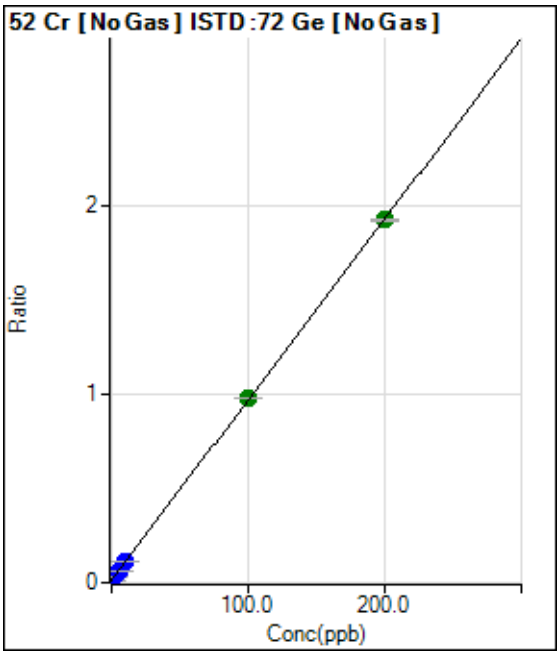


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2718.06	0.0071	P	3.7
2	☐	2.000	1.932	10200.49	0.0266	P	0.5
3	☐	5.000	4.909	21642.67	0.0567	P	1.0
4	☐	10.000	10.153	41697.62	0.1097	P	0.7
5	☐	100.000	98.800	383618.42	1.0061	P	1.4
6	☐	200.000	200.595	760995.91	2.0353	P	1.0

y = 0.0101 * x + 0.0071
R = 1.0000
DL = 0.07845
BEC = 0.6988

Weight: <None>
Min Conc: <None>

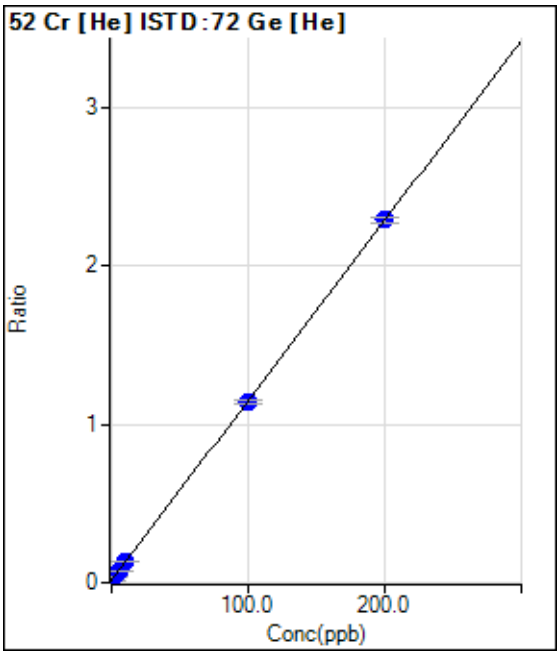
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24258.39	0.0140	P	4.6
2	☐	2.000	2.034	57785.41	0.0335	P	2.3
3	☐	5.000	5.257	108138.39	0.0645	P	2.7
4	☐	10.000	10.434	192720.27	0.1141	P	3.4
5	☐	100.000	100.699	1669351.17	0.9802	A	0.7
6	☐	200.000	199.622	3197441.72	1.9294	A	0.7

y = 0.0096 * x + 0.0140
R = 1.0000
DL = 0.2001
BEC = 1.46

Weight: <None>
Min Conc: <None>

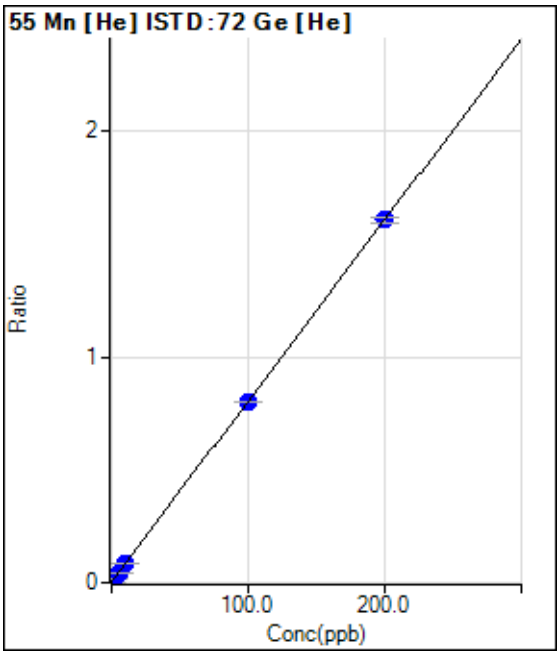


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5651.25	0.0147	P	6.5
2	☐	2.000	1.942	14080.75	0.0367	P	2.2
3	☐	5.000	5.114	27745.19	0.0727	P	2.3
4	☐	10.000	10.268	49844.35	0.1312	P	1.7
5	☐	100.000	99.152	434463.76	1.1394	P	1.6
6	☐	200.000	200.408	855436.86	2.2880	P	1.4

y = 0.0113 * x + 0.0147
R = 1.0000
DL = 0.2522
BEC = 1.295

Weight: <None>
Min Conc: <None>

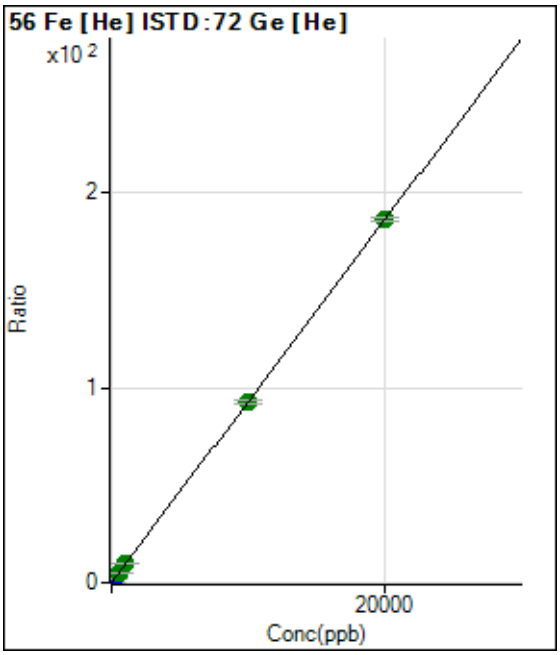
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1206.74	0.0031	P	5.5
2	☐	2.000	2.119	7718.99	0.0201	P	1.9
3	☐	5.000	5.067	16700.44	0.0438	P	2.1
4	☐	10.000	10.328	32659.59	0.0859	P	1.2
5	☐	100.000	99.598	305689.13	0.8016	P	0.3
6	☐	200.000	200.182	601207.27	1.6080	P	1.4

y = 0.0080 * x + 0.0031
R = 1.0000
DL = 0.06493
BEC = 0.3914

Weight: <None>
Min Conc: <None>

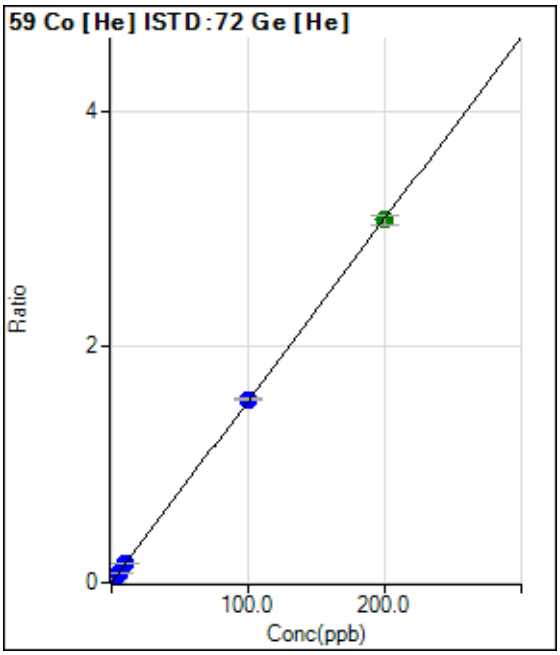


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14684.79	0.0382	P	1.2
2	☐	200.000	207.718	755323.16	1.9696	P	0.5
3	☐	500.000	515.882	1845401.17	4.8350	A	0.7
4	☐	1000.000	1017.670	3610530.99	9.5008	A	0.7
5	☐	10000.000	9947.856	35284869.47	92.5370	A	2.1
6	☐	20000.000	20024.714	69630700.63	186.2353	A	1.1

y = 0.0093 * x + 0.0382
R = 1.0000
DL = 0.1486
BEC = 4.106

Weight: <None>
Min Conc: <None>

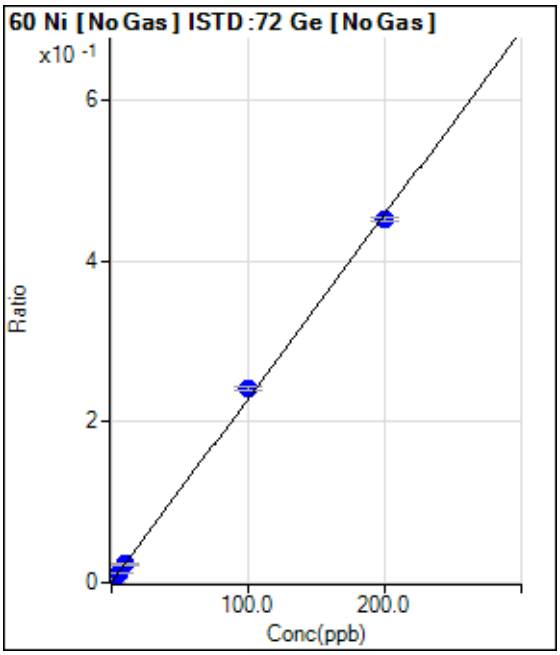
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	203.34	0.0005	P	12.9
2	☐	2.000	1.997	12015.52	0.0313	P	1.1
3	☐	5.000	5.177	30684.92	0.0804	P	2.4
4	☐	10.000	10.414	61244.33	0.1612	P	1.0
5	☐	100.000	100.927	593847.52	1.5573	P	0.2
6	☐	200.000	199.511	1150657.25	3.0779	A	2.4

y = 0.0154 * x + 5.2883E-004
R = 1.0000
DL = 0.01327
BEC = 0.03428

Weight: <None>
Min Conc: <None>

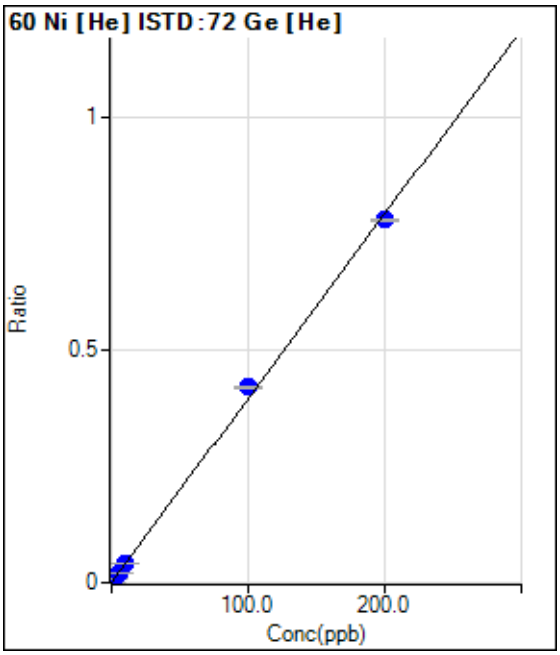


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	360.01	0.0002	P	22.8
2	☐	2.000	1.924	7932.44	0.0046	P	3.2
3	☐	5.000	5.039	19661.10	0.0117	P	2.6
4	☐	10.000	9.974	38825.83	0.0230	P	3.4
5	☐	100.000	105.687	411451.82	0.2416	P	1.6
6	☐	200.000	197.158	746632.77	0.4506	P	1.2

y = 0.0023 * x + 2.0810E-004
R = 0.9994
DL = 0.06244
BEC = 0.0911

Weight: <None>
Min Conc: <None>

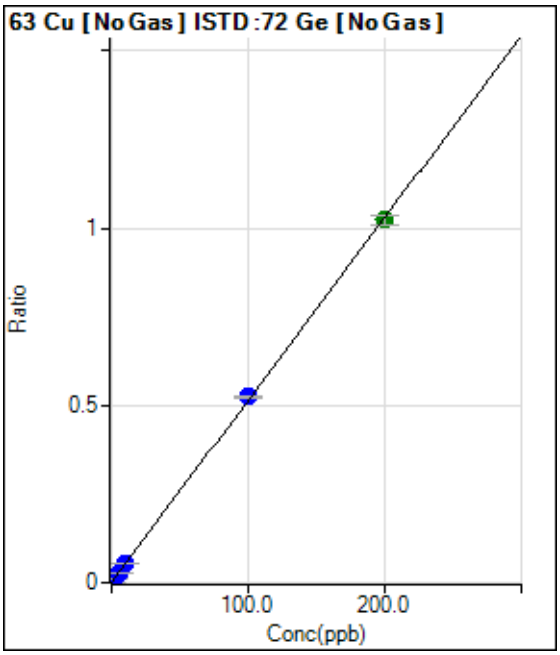
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0003	P	32.9
2	☐	2.000	2.027	3193.78	0.0083	P	3.8
3	☐	5.000	4.956	7602.22	0.0199	P	5.4
4	☐	10.000	9.975	15111.99	0.0398	P	1.8
5	☐	100.000	106.115	160175.15	0.4200	P	0.9
6	☐	200.000	196.945	291377.85	0.7793	P	0.6

y = 0.0040 * x + 3.1161E-004
R = 0.9993
DL = 0.07775
BEC = 0.07878

Weight: <None>
Min Conc: <None>

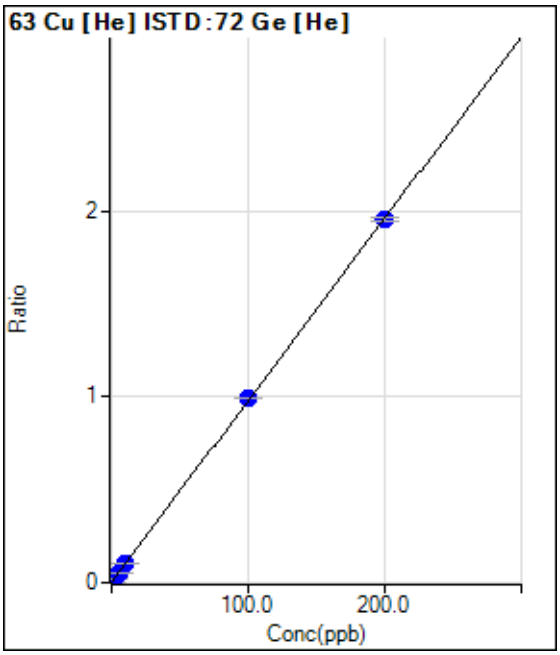


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1363.43	0.0008	P	11.9
2	☐	2.000	1.928	18426.11	0.0107	P	1.7
3	☐	5.000	5.213	46269.10	0.0276	P	1.9
4	☐	10.000	10.446	91973.29	0.0545	P	3.0
5	☐	100.000	102.032	894053.09	0.5250	P	1.1
6	☐	200.000	198.957	1695054.71	1.0230	A	2.5

y = 0.0051 * x + 7.8745E-004
R = 0.9999
DL = 0.05467
BEC = 0.1533

Weight: <None>
Min Conc: <None>

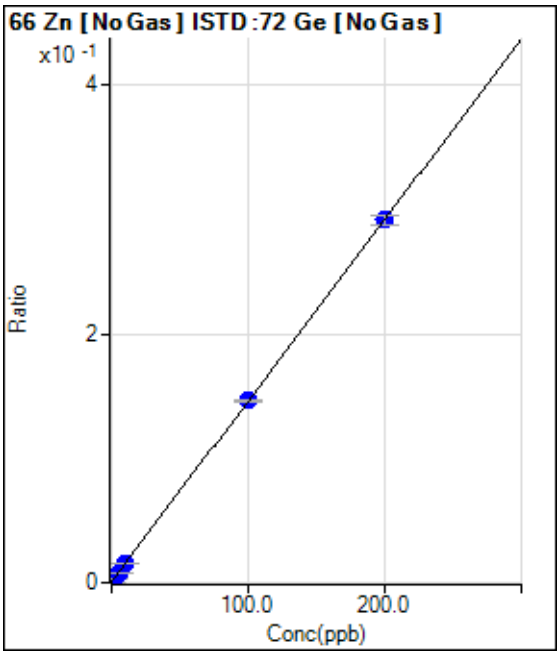
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	583.36	0.0015	P	9.0
2	☐	2.000	2.099	8469.44	0.0221	P	2.3
3	☐	5.000	5.052	19470.93	0.0510	P	1.8
4	☐	10.000	10.224	38645.56	0.1017	P	0.9
5	☐	100.000	101.239	378834.96	0.9935	P	0.8
6	☐	200.000	199.367	730976.63	1.9549	P	1.2

y = 0.0098 * x + 0.0015
R = 1.0000
DL = 0.04159
BEC = 0.1547

Weight: <None>
Min Conc: <None>

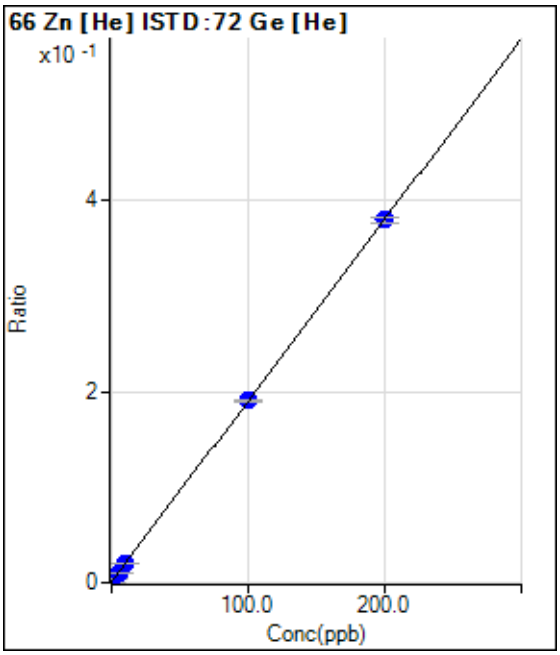


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1233.41	0.0007	P	4.6
2	☐	2.000	1.965	6151.52	0.0036	P	3.0
3	☐	5.000	5.030	13466.92	0.0080	P	1.7
4	☐	10.000	10.034	25851.56	0.0153	P	1.8
5	☐	100.000	99.982	248788.19	0.1461	P	1.7
6	☐	200.000	200.007	483073.89	0.2916	P	2.4

y = 0.0015 * x + 7.1223E-004
R = 1.0000
DL = 0.0682
BEC = 0.4898

Weight: <None>
Min Conc: <None>

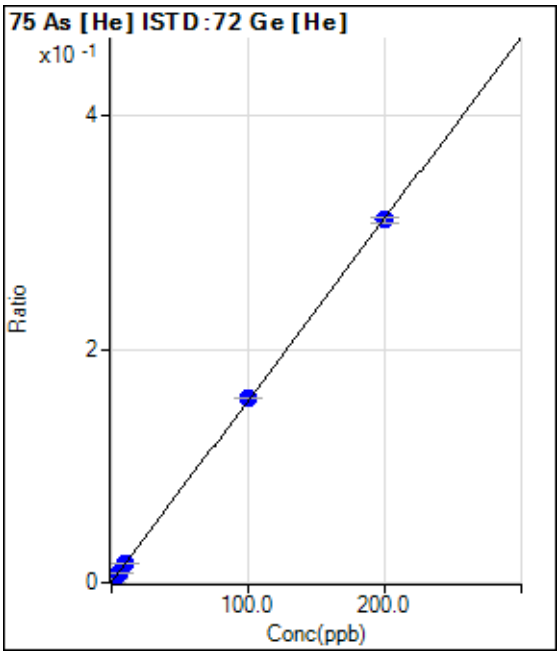
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	363.34	0.0009	P	11.4
2	☐	2.000	2.241	1990.18	0.0052	P	8.0
3	☐	5.000	4.849	3863.95	0.0101	P	9.4
4	☐	10.000	10.055	7595.60	0.0200	P	2.4
5	☐	100.000	100.115	72664.38	0.1906	P	0.5
6	☐	200.000	199.941	141943.44	0.3796	P	1.9

y = 0.0019 * x + 9.4455E-004
R = 1.0000
DL = 0.1712
BEC = 0.4987

Weight: <None>
Min Conc: <None>

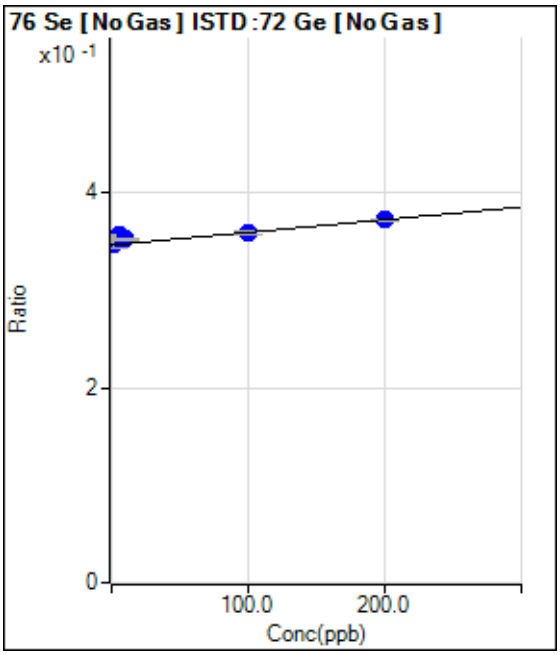


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	131.11	0.0003	P	34.4
2	☐	2.000	1.847	1234.51	0.0032	P	3.7
3	☐	5.000	4.860	3020.36	0.0079	P	4.2
4	☐	10.000	10.249	6199.22	0.0163	P	1.8
5	☐	100.000	101.298	60334.14	0.1582	P	0.5
6	☐	200.000	199.344	116292.32	0.3110	P	1.5

y = 0.0016 * x + 3.4073E-004
R = 1.0000
DL = 0.2254
BEC = 0.2186

Weight: <None>
Min Conc: <None>

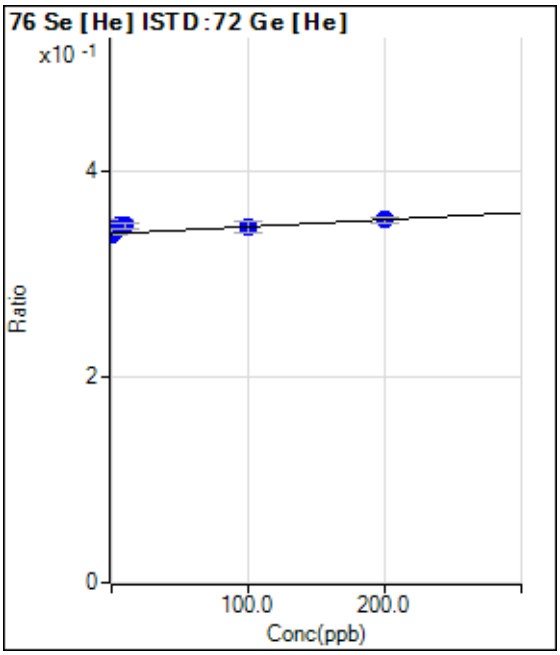
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	600116.06	0.3465	P	2.0
2	☐	2.000	-1.130	596845.33	0.3463	P	1.9
3	☐	5.000	76.462	598094.90	0.3564	P	0.8
4	☐	10.000	48.288	596022.41	0.3528	P	0.5
5	☐	100.000	96.280	611337.27	0.3590	P	0.7
6	☐	200.000	198.190	616950.86	0.3722	P	0.6

y = 1.2998E-004 * x + 0.3465
R = 0.9239
DL = 158.1
BEC = 2666

Weight: <None>
Min Conc: <None>

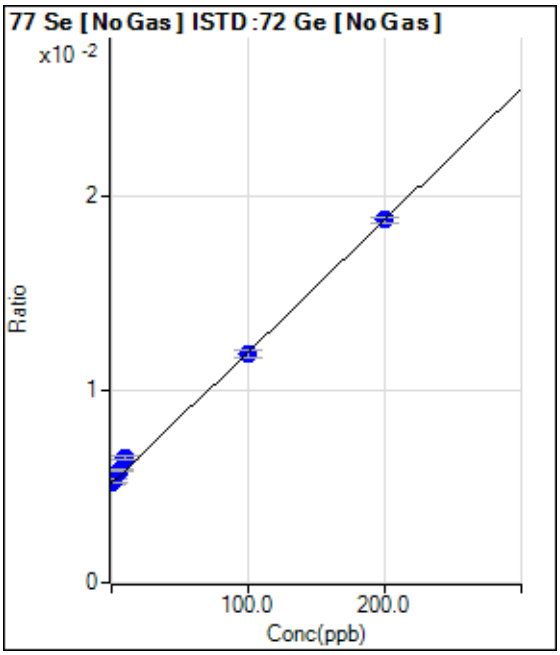


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130588.22	0.3395	P	0.9
2	☐	2.000	12.734	130524.58	0.3404	P	1.2
3	☐	5.000	133.750	133055.29	0.3487	P	3.1
4	☐	10.000	116.826	132058.89	0.3475	P	1.8
5	☐	100.000	91.266	131837.27	0.3458	P	3.1
6	☐	200.000	195.700	131964.56	0.3529	P	1.6

y = 6.8683E-005 * x + 0.3395
R = 0.6905
DL = 133
BEC = 4943

Weight: <None>
Min Conc: <None>

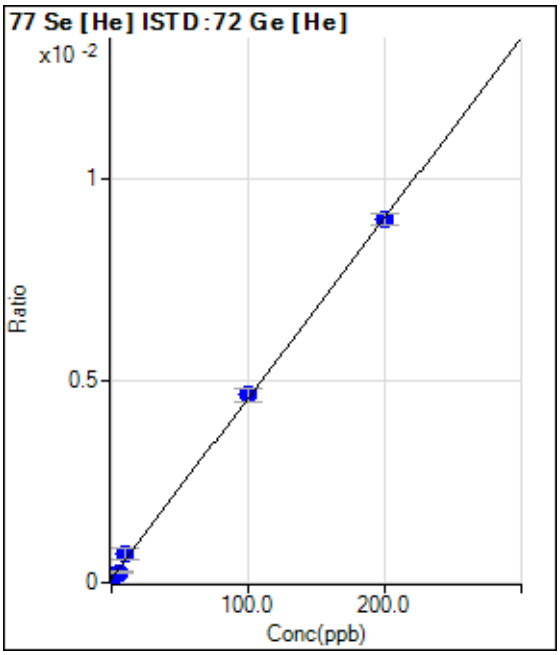
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8896.41	0.0051	P	1.5
2	☐	2.000	2.425	9139.92	0.0053	P	3.3
3	☐	5.000	9.940	9757.03	0.0058	P	1.7
4	☐	10.000	19.609	10937.96	0.0065	P	4.0
5	☐	100.000	98.684	20215.51	0.0119	P	3.1
6	☐	200.000	200.050	31139.67	0.0188	P	1.8

y = 6.8269E-005 * x + 0.0051
R = 0.9989
DL = 3.464
BEC = 75.22

Weight: <None>
Min Conc: <None>

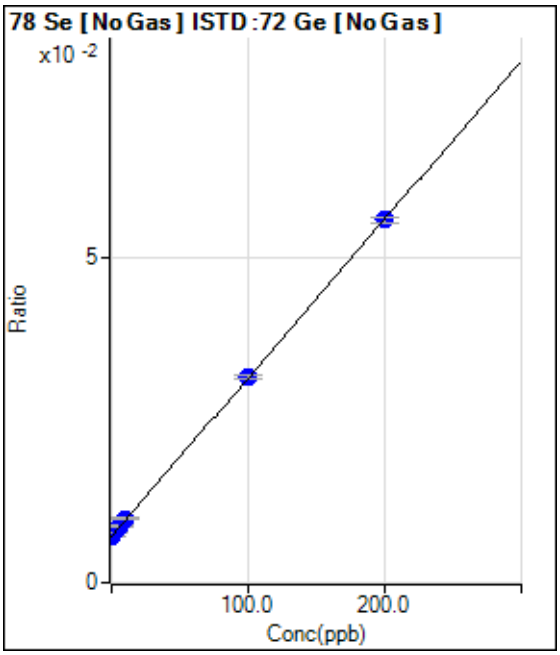


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	34.8
2	☐	2.000	2.146	80.00	0.0002	P	62.1
3	☐	5.000	3.153	96.67	0.0003	P	11.4
4	☐	10.000	13.428	270.01	0.0007	P	43.9
5	☐	100.000	101.757	1773.49	0.0047	P	6.9
6	☐	200.000	198.995	3360.48	0.0090	P	3.0

y = 4.4603E-005 * x + 1.1253E-004
R = 0.9997
DL = 2.635
BEC = 2.523

Weight: <None>
Min Conc: <None>

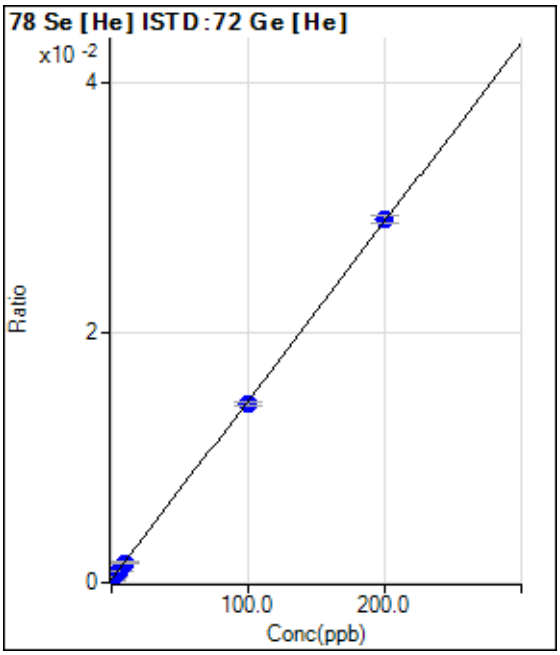
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12355.87	0.0071	P	3.4
2	☐	2.000	2.299	13260.04	0.0077	P	1.3
3	☐	5.000	6.443	14608.12	0.0087	P	1.3
4	☐	10.000	11.314	16717.31	0.0099	P	2.1
5	☐	100.000	100.565	53981.58	0.0317	P	1.0
6	☐	200.000	199.613	92620.59	0.0559	P	1.7

y = 2.4427E-004 * x + 0.0071
R = 1.0000
DL = 2.979
BEC = 29.2

Weight: <None>
Min Conc: <None>

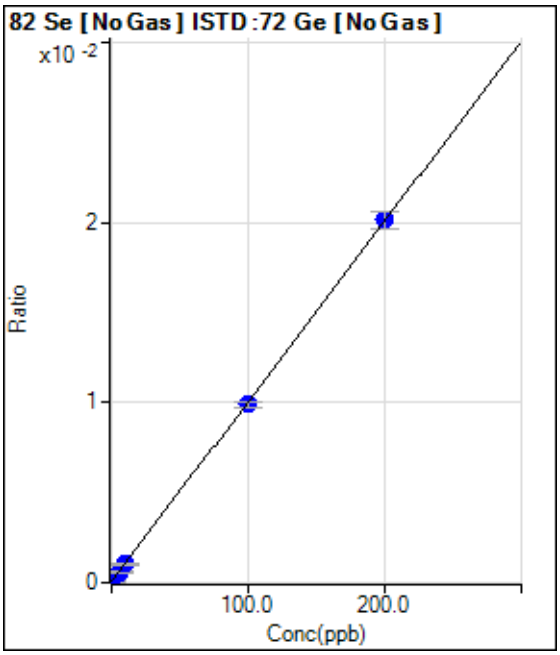


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.67	0.0003	P	20.5
2	☐	2.000	1.886	200.00	0.0005	P	5.4
3	☐	5.000	4.748	355.34	0.0009	P	9.5
4	☐	10.000	9.352	604.68	0.0016	P	6.3
5	☐	100.000	98.092	5454.45	0.0143	P	1.5
6	☐	200.000	200.994	10857.72	0.0290	P	2.1

y = 1.4325E-004 * x + 2.5132E-004
R = 0.9999
DL = 1.077
BEC = 1.754

Weight: <None>
Min Conc: <None>

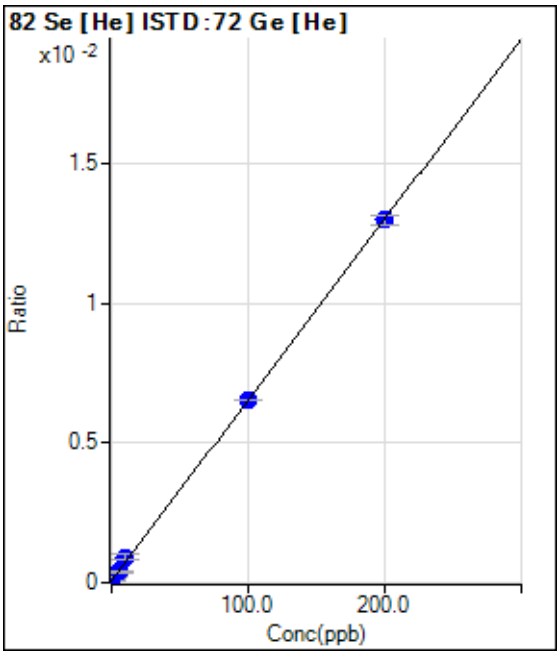
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.44	0.0001	P	39.8
2	☐	2.000	2.500	538.63	0.0003	P	7.4
3	☐	5.000	5.143	968.52	0.0006	P	19.4
4	☐	10.000	9.749	1752.12	0.0010	P	9.7
5	☐	100.000	98.275	16846.51	0.0099	P	3.6
6	☐	200.000	200.866	33390.63	0.0202	P	4.6

y = 1.0003E-004 * x + 6.2591E-005
R = 0.9999
DL = 0.7475
BEC = 0.6257

Weight: <None>
Min Conc: <None>

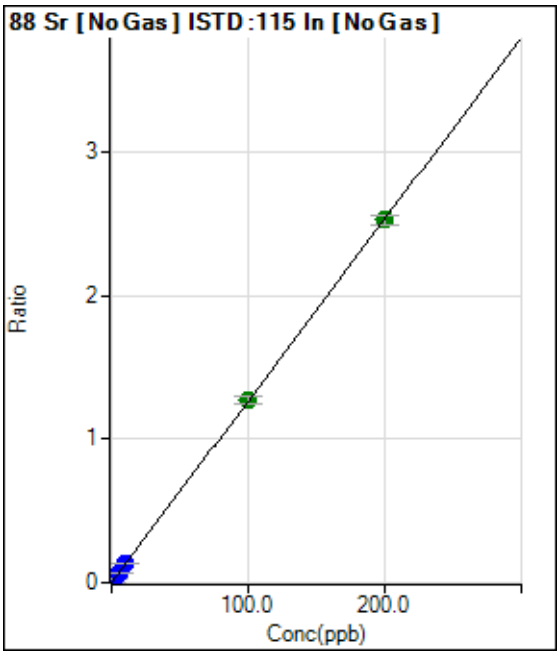


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0001	P	66.6
2	☐	2.000	2.957	103.33	0.0003	P	30.6
3	☐	5.000	5.012	153.34	0.0004	P	17.2
4	☐	10.000	12.892	346.68	0.0009	P	21.5
5	☐	100.000	99.919	2493.61	0.0065	P	0.6
6	☐	200.000	199.886	4860.99	0.0130	P	2.4

y = 6.4662E-005 * x + 7.8037E-005
R = 0.9999
DL = 2.41
BEC = 1.207

Weight: <None>
Min Conc: <None>

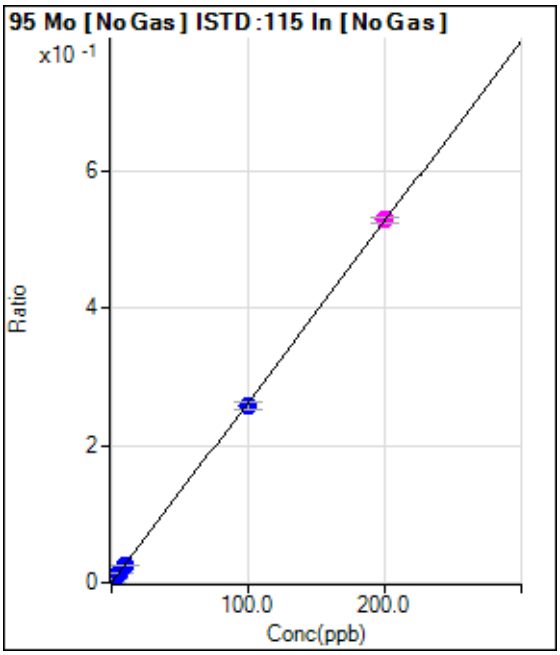
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	483.35	0.0003	P	15.2
2	☐	2.000	2.028	50171.03	0.0259	P	3.0
3	☐	5.000	5.095	125753.65	0.0648	P	1.3
4	☐	10.000	10.343	250234.99	0.1312	P	1.9
5	☐	100.000	100.516	2418415.38	1.2729	A	3.3
6	☐	200.000	199.722	4646129.72	2.5290	A	2.6

y = 0.0127 * x + 2.5023E-004
R = 1.0000
DL = 0.009011
BEC = 0.01976

Weight: <None>
Min Conc: <None>

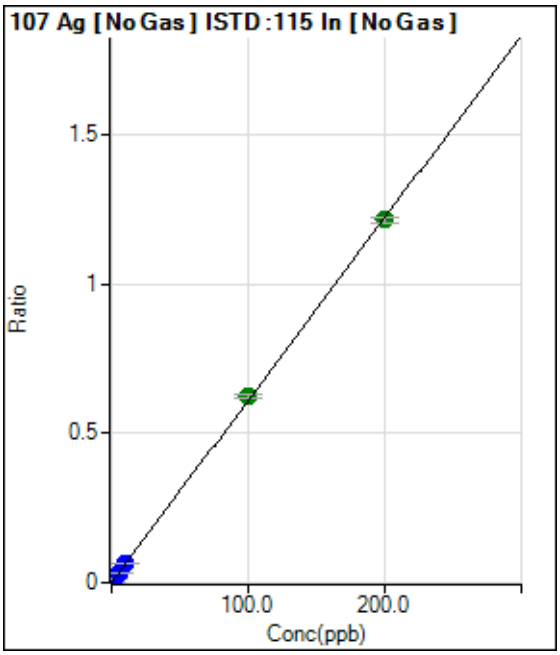


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0001	P	23.8
2	☐	2.000	1.876	9683.65	0.0050	P	1.0
3	☐	5.000	4.794	24616.42	0.0127	P	0.5
4	☐	10.000	9.746	49003.51	0.0257	P	2.1
5	☐	100.000	98.165	490383.90	0.2582	P	4.5
6	☐	200.000	200.937	970866.44	0.5284	M	1.3

y = 0.0026 * x + 7.0758E-005
R = 0.9999
DL = 0.01921
BEC = 0.02691

Weight: <None>
Min Conc: <None>

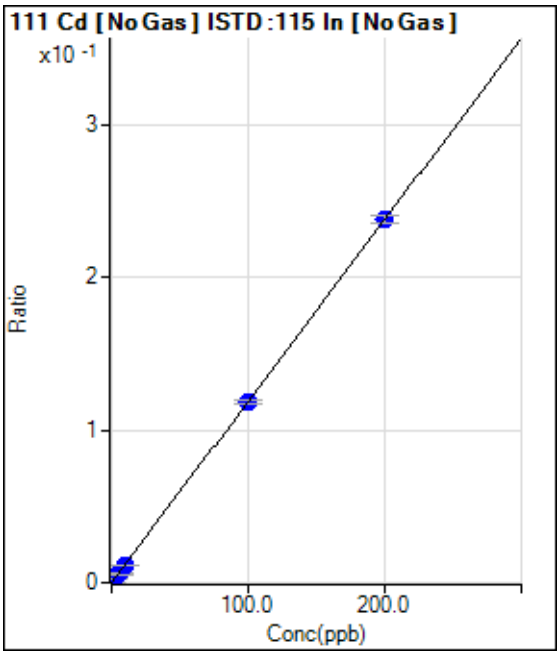
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0001	P	46.0
2	☐	2.000	1.978	23527.97	0.0122	P	4.6
3	☐	5.000	4.947	58781.01	0.0303	P	1.3
4	☐	10.000	10.357	120688.04	0.0633	P	1.2
5	☐	100.000	101.912	1181508.60	0.6217	A	2.3
6	☐	200.000	199.028	2230661.90	1.2141	A	1.9

y = 0.0061 * x + 9.4767E-005
R = 0.9999
DL = 0.02142
BEC = 0.01554

Weight: <None>
Min Conc: <None>

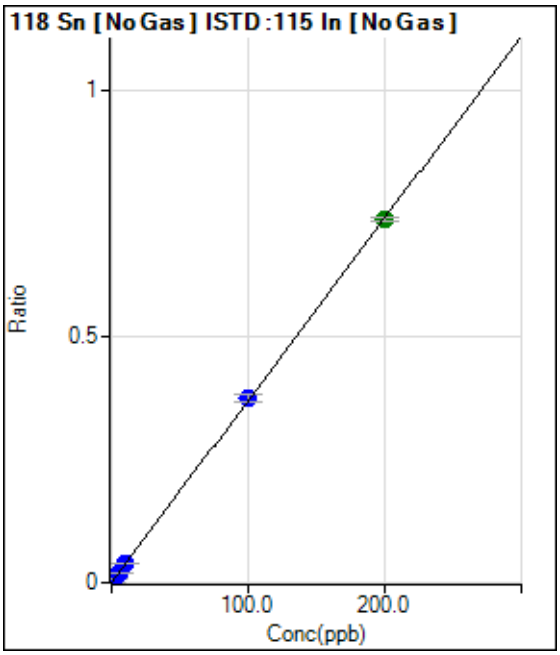


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9.51	0.0000	P	101.2
2	☐	2.000	1.944	4480.94	0.0023	P	5.8
3	☐	5.000	4.795	11076.59	0.0057	P	3.6
4	☐	10.000	9.895	22445.74	0.0118	P	2.7
5	☐	100.000	99.948	225823.61	0.1188	P	1.7
6	☐	200.000	200.037	436866.90	0.2378	P	2.1

y = 0.0012 * x + 4.9038E-006
R = 1.0000
DL = 0.01252
BEC = 0.004125

Weight: <None>
Min Conc: <None>

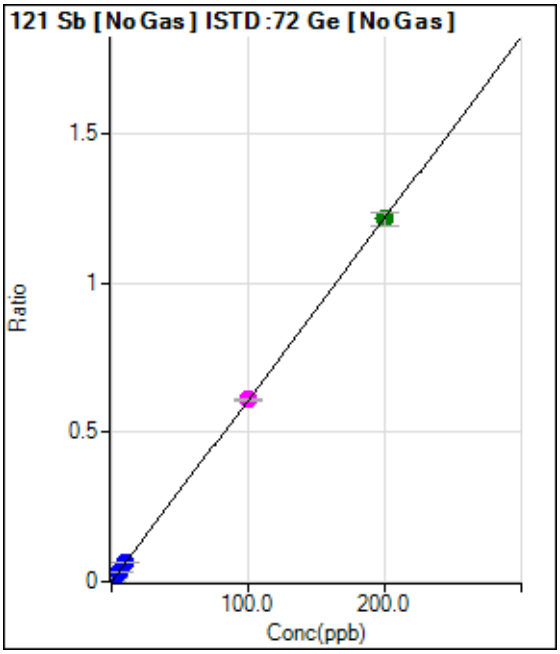
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	560.03	0.0003	P	7.6
2	☐	2.000	2.015	14976.62	0.0077	P	3.3
3	☐	5.000	4.874	35548.53	0.0183	P	1.6
4	☐	10.000	10.171	72252.13	0.0379	P	1.9
5	☐	100.000	101.597	713947.44	0.3758	P	3.8
6	☐	200.000	199.196	1353445.39	0.7366	A	1.0

y = 0.0037 * x + 2.8984E-004
R = 1.0000
DL = 0.01785
BEC = 0.07841

Weight: <None>
Min Conc: <None>

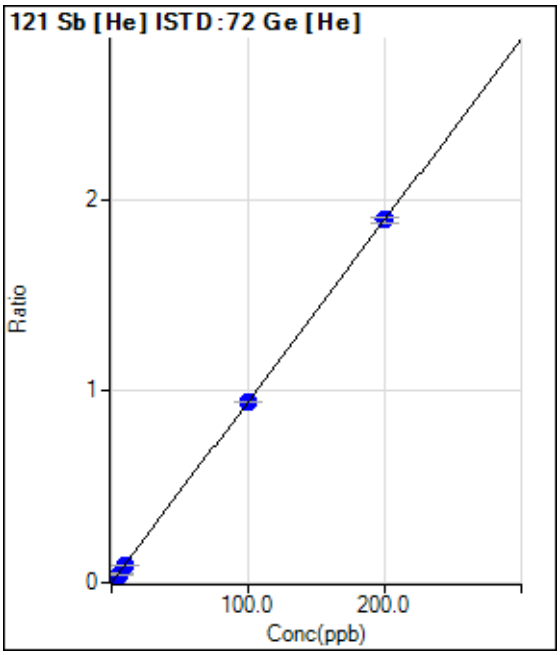


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	146.67	0.0001	P	12.2
2	☐	2.000	1.890	19958.83	0.0116	P	2.3
3	☐	5.000	4.983	50986.23	0.0304	P	3.4
4	☐	10.000	10.145	104380.59	0.0618	P	1.8
5	☐	100.000	100.443	1040496.23	0.6110	M	1.1
6	☐	200.000	199.773	2013115.39	1.2151	A	3.8

y = 0.0061 * x + 8.4782E-005
R = 1.0000
DL = 0.005084
BEC = 0.01394

Weight: <None>
Min Conc: <None>

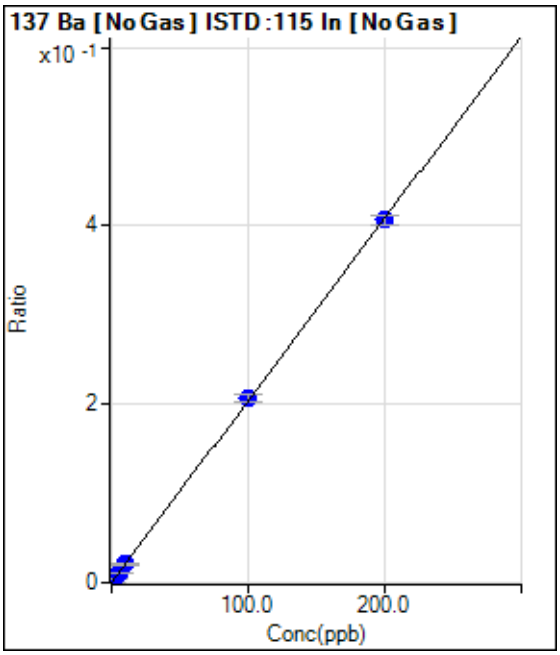
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0001	P	27.3
2	☐	2.000	1.897	6931.96	0.0181	P	4.8
3	☐	5.000	4.726	17104.73	0.0448	P	3.7
4	☐	10.000	9.870	35505.15	0.0934	P	1.7
5	☐	100.000	99.694	359321.71	0.9423	P	1.0
6	☐	200.000	200.167	707294.37	1.8918	P	1.6

y = 0.0095 * x + 1.4739E-004
R = 1.0000
DL = 0.01275
BEC = 0.0156

Weight: <None>
Min Conc: <None>

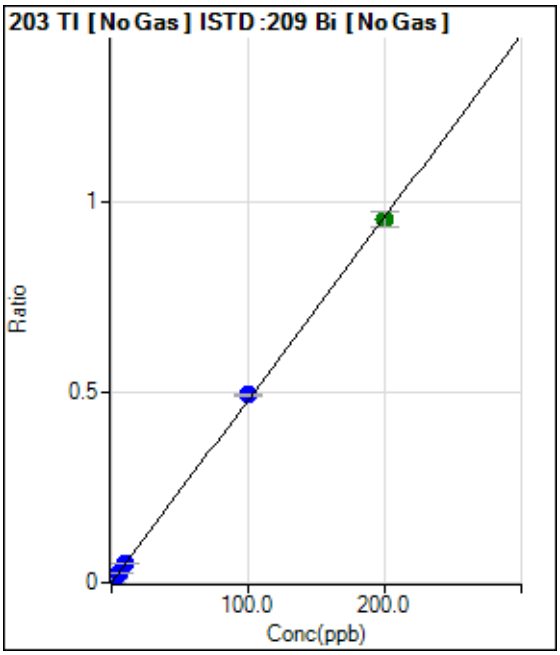


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	233.34	0.0001	P	21.8
2	☐	2.000	1.994	8102.67	0.0042	P	5.4
3	☐	5.000	4.791	19211.18	0.0099	P	3.7
4	☐	10.000	9.982	39065.61	0.0205	P	2.0
5	☐	100.000	101.331	392892.63	0.2068	P	3.9
6	☐	200.000	199.341	747241.58	0.4068	P	2.7

y = 0.0020 * x + 1.2084E-004
R = 1.0000
DL = 0.03869
BEC = 0.05924

Weight: <None>
Min Conc: <None>

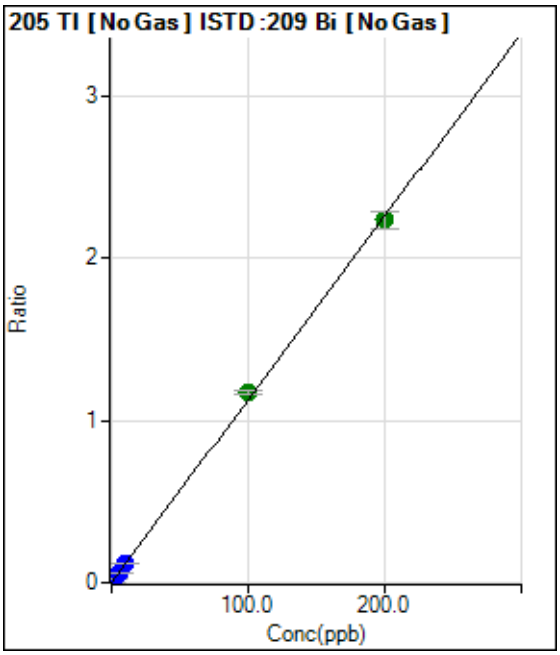
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	280.01	0.0002	P	13.4
2	☐	2.000	2.073	15836.99	0.0101	P	5.2
3	☐	5.000	5.187	39385.65	0.0250	P	5.5
4	☐	10.000	10.583	79197.58	0.0509	P	4.0
5	☐	100.000	102.687	762785.61	0.4925	P	0.9
6	☐	200.000	198.622	1433573.47	0.9525	A	4.3

y = 0.0048 * x + 1.7821E-004
R = 0.9999
DL = 0.01492
BEC = 0.03717

Weight: <None>
Min Conc: <None>

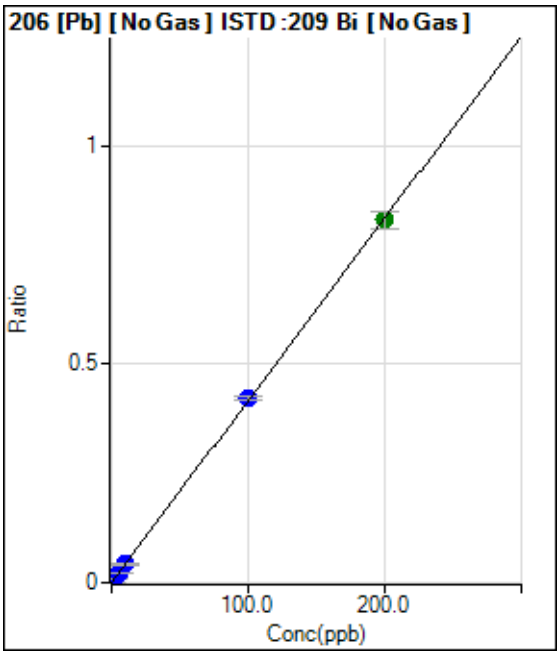


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	820.04	0.0005	P	3.8
2	☐	2.000	2.098	37864.47	0.0242	P	3.6
3	☐	5.000	5.208	93203.67	0.0592	P	3.5
4	☐	10.000	10.713	188692.05	0.1213	P	2.4
5	☐	100.000	103.671	1810829.71	1.1692	A	2.3
6	☐	200.000	198.122	3361316.51	2.2339	A	5.0

y = 0.0113 * x + 5.2370E-004
R = 0.9998
DL = 0.005281
BEC = 0.04646

Weight: <None>
Min Conc: <None>

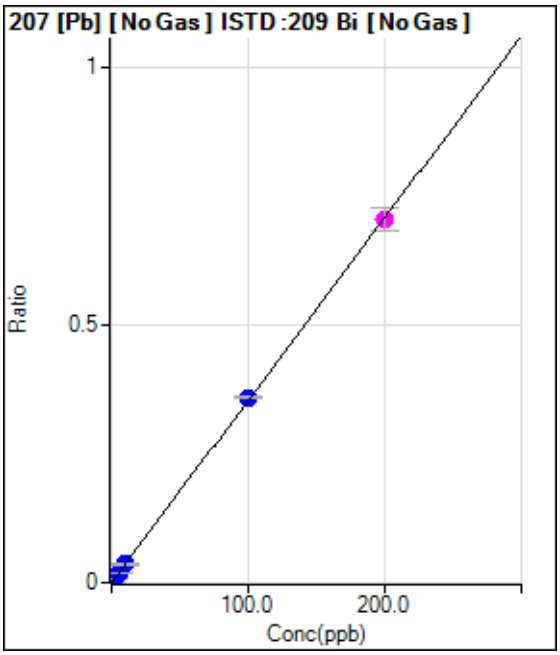
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.67	0.0001	P	19.7
2	☐	2.000	1.947	12876.83	0.0082	P	5.9
3	☐	5.000	4.948	32582.94	0.0207	P	5.9
4	☐	10.000	10.132	65804.17	0.0423	P	3.6
5	☐	100.000	101.434	654322.87	0.4225	P	1.3
6	☐	200.000	199.278	1249290.99	0.8299	A	4.5

y = 0.0042 * x + 1.1915E-004
R = 1.0000
DL = 0.01688
BEC = 0.02861

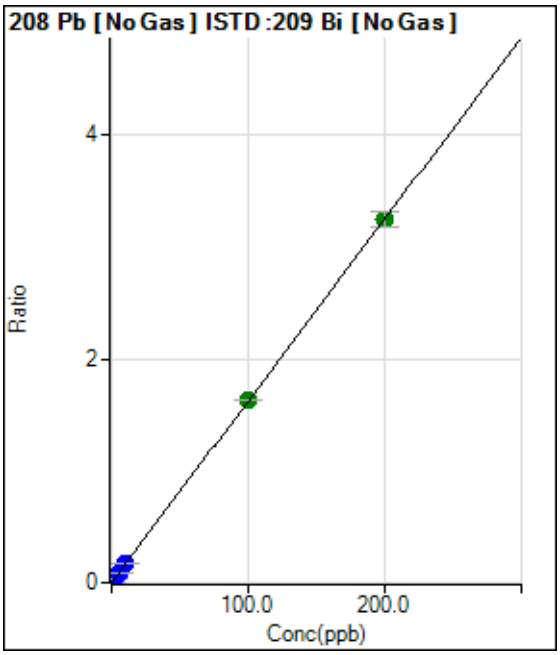
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.67	0.0001	P	9.6
2	☐	2.000	2.025	11398.74	0.0073	P	3.4
3	☐	5.000	5.116	28653.28	0.0182	P	3.9
4	☐	10.000	10.096	55718.25	0.0358	P	2.7
5	☐	100.000	101.775	557497.25	0.3600	P	1.3
6	☐	200.000	199.105	1059100.43	0.7041	M	6.4

y = 0.0035 * x + 1.1909E-004
R = 0.9999
DL = 0.009718
BEC = 0.03368

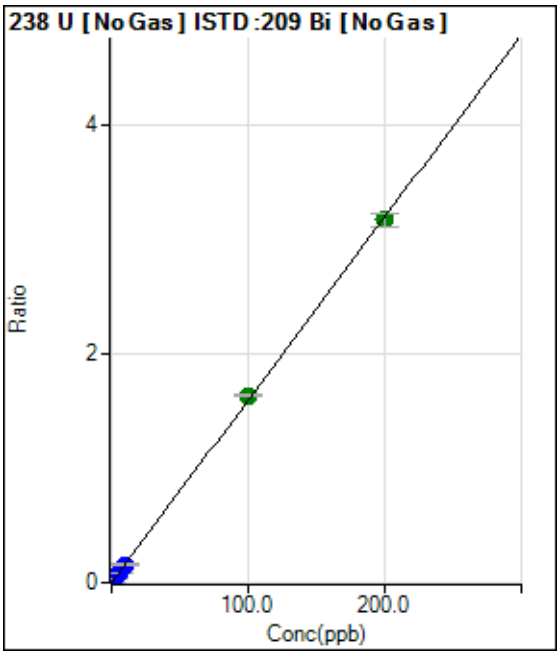
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	766.69	0.0005	P	20.0
2	☐	2.000	2.027	52270.75	0.0334	P	3.7
3	☐	5.000	5.042	129493.36	0.0823	P	3.9
4	☐	10.000	10.243	259296.39	0.1667	P	3.4
5	☐	100.000	100.554	2527854.50	1.6322	A	0.7
6	☐	200.000	199.710	4878450.91	3.2412	A	4.3

y = 0.0162 * x + 4.8707E-004
R = 1.0000
DL = 0.01801
BEC = 0.03002

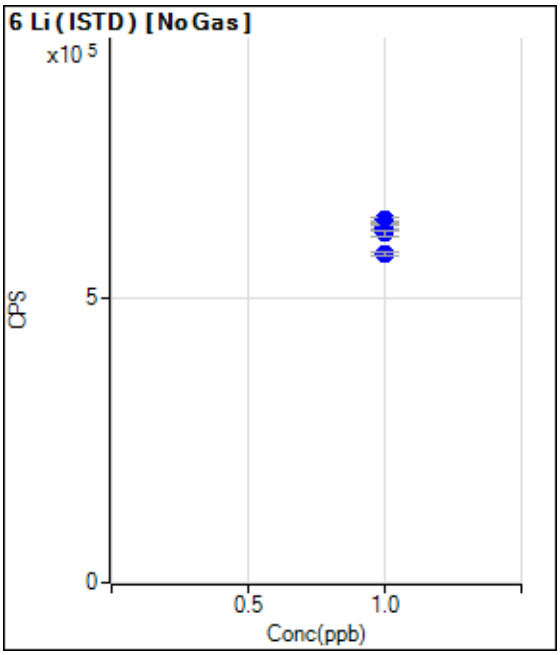
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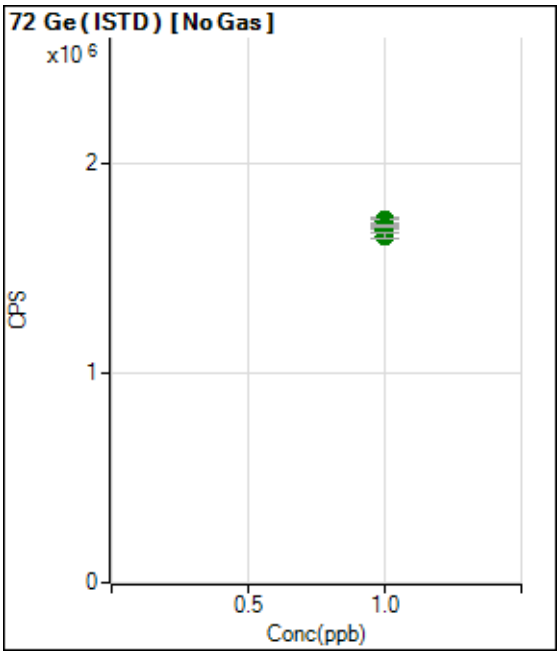
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	190.00	0.0001	P	22.5
2	☐	2.000	1.932	48533.35	0.0310	P	3.2
3	☐	5.000	4.854	122216.65	0.0777	P	4.4
4	☐	10.000	9.970	248023.44	0.1594	P	2.7
5	☐	100.000	102.641	2540175.22	1.6403	A	0.7
6	☐	200.000	198.686	4779568.47	3.1750	A	3.6

y = 0.0160 * x + 1.2194E-004
R = 0.9999
DL = 0.005149
BEC = 0.007631

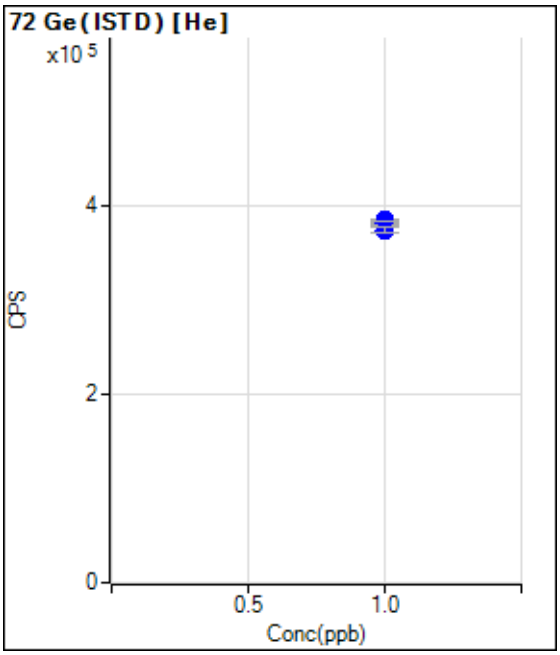
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Min Conc: <None>



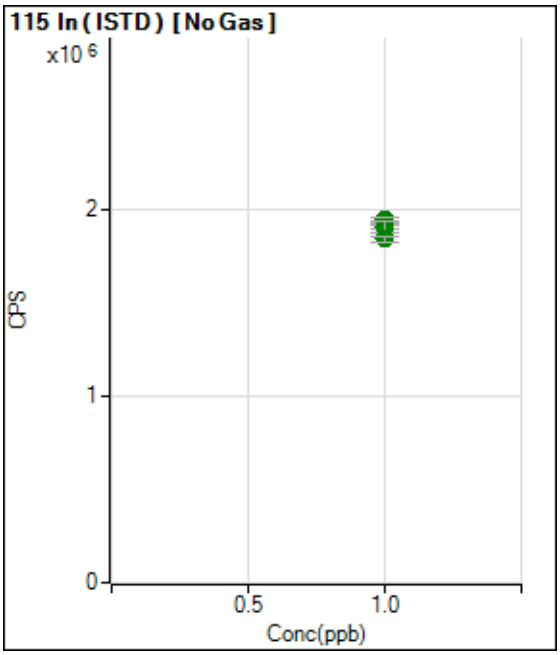
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		638503.45		P	1.0
2	☐	1.000		632722.82		P	0.2
3	☐	1.000		627544.30		P	1.3
4	☐	1.000		623060.58		P	1.5
5	☐	1.000		615863.70		P	1.6
6	☐	1.000		578694.91		P	1.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1732455.55		A	1.8
2	☐	1.000		1723610.81		A	1.6
3	☐	1.000		1678009.19		A	1.2
4	☐	1.000		1689773.31		A	2.7
5	☐	1.000		1703001.95		A	0.9
6	☐	1.000		1657332.89		A	1.6

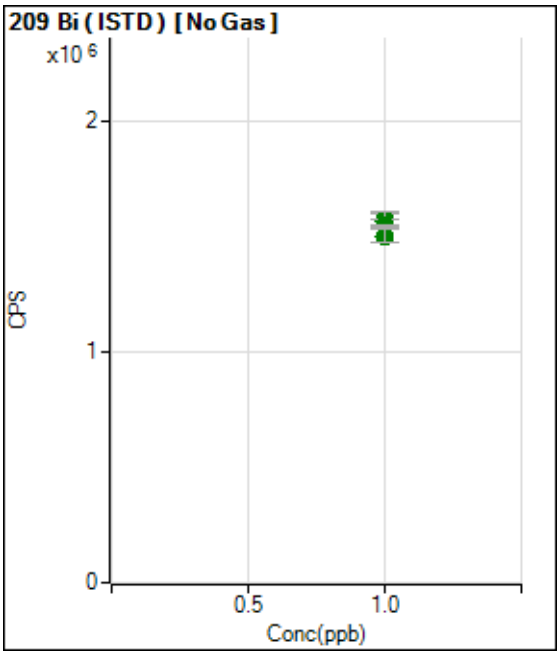


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		384678.37		P	0.5
2	☐	1.000		383492.91		P	0.4
3	☐	1.000		381662.00		P	0.7
4	☐	1.000		380016.05		P	0.5
5	☐	1.000		381335.58		P	0.7
6	☐	1.000		373924.46		P	1.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1932616.76		A	0.6
2	☐	1.000		1936022.95		A	2.1
3	☐	1.000		1941971.51		A	1.0
4	☐	1.000		1907506.20		A	1.7
5	☐	1.000		1901290.95		A	3.4
6	☐	1.000		1837687.88		A	1.9

Calibration for 111_ICV.d



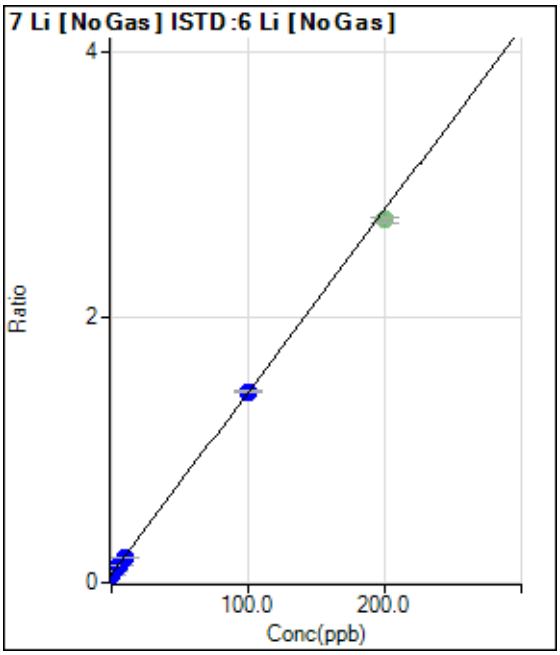
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1566956.23		A	4.1
2	☐	1.000		1567387.22		A	4.0
3	☐	1.000		1575091.17		A	4.6
4	☐	1.000		1556356.12		A	2.5
5	☐	1.000		1548693.94		A	0.9
6	☐	1.000		1506868.26		A	4.3

Calibration for 022_ICV.d

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Analysis File: 082923A.batch.bin
DA Date-Time: 8/29/2023 11:05:50 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	015CALB.d	CAL BLK	8/29/2023 11:06:46 AM
2	016CALS.d	2/10/200	8/29/2023 11:08:43 AM
3	017CALS.d	5/25/500	8/29/2023 11:10:41 AM
4	018CALS.d	10/50/100	8/29/2023 11:12:37 AM
5	019CALS.d	100/500/10K	8/29/2023 11:14:34 AM
6	020CALS.d	200/1000/20K	8/29/2023 11:16:28 AM

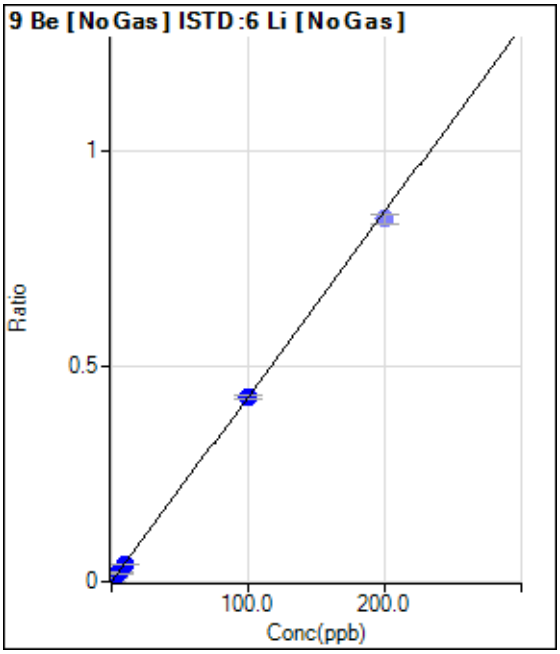
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31398.34	0.0625	P	1.0
2	☐	2.000	1.813	44304.41	0.0874	P	1.0
3	☐	5.000	4.751	65176.98	0.1276	P	1.5
4	☐	10.000	9.462	97849.57	0.1922	P	1.9
5	☐	100.000	100.070	714789.39	1.4344	P	0.8
6	☑	200.000		1329383.37	2.7301	A	1.7

y = 0.0137 * x + 0.0625
R = 1.0000
DL = 0.1349
BEC = 4.559

Weight: <None>
Min Conc: <None>

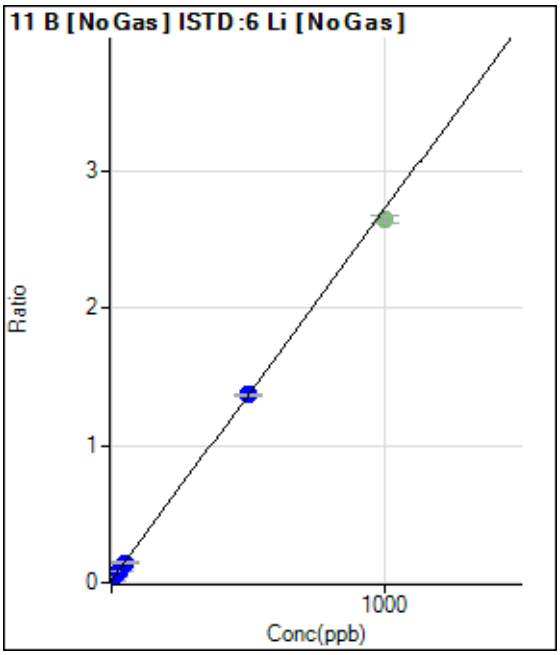


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.33	0.0001	P	53.7
2	☐	2.000	1.986	4360.72	0.0086	P	0.9
3	☐	5.000	4.762	10485.64	0.0205	P	4.5
4	☐	10.000	9.638	21127.63	0.0415	P	3.6
5	☐	100.000	100.048	214496.21	0.4304	P	1.8
6	☑	200.000		410947.69	0.8441	P	2.9

y = 0.0043 * x + 5.6294E-005
R = 1.0000
DL = 0.02108
BEC = 0.01309

Weight: <None>
Min Conc: <None>

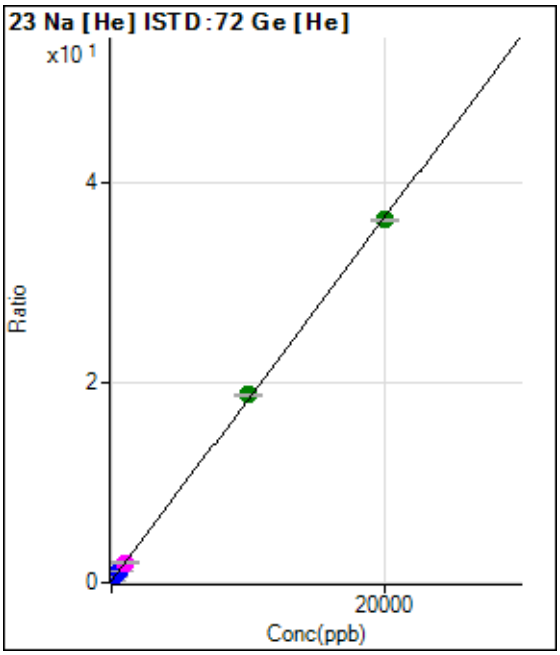
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7943.98	0.0158	P	2.4
2	☐	10.000	9.657	21272.87	0.0419	P	2.4
3	☐	25.000	23.832	41003.21	0.0803	P	3.2
4	☐	50.000	48.509	74866.96	0.1471	P	2.3
5	☐	500.000	500.214	682387.86	1.3694	P	0.8
6	☑	1000.000		1287830.66	2.6452	A	2.1

y = 0.0027 * x + 0.0158
R = 1.0000
DL = 0.4162
BEC = 5.845

Weight: <None>
Min Conc: <None>

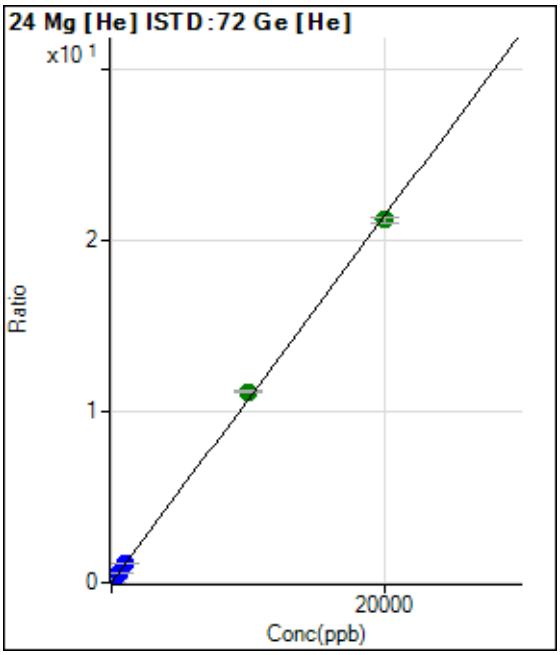


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61723.16	0.1617	P	3.0
2	☐	200.000	215.341	209580.95	0.5522	P	0.4
3	☐	500.000	536.342	435468.18	1.1342	P	2.7
4	☐	1000.000	1021.343	771562.62	2.0136	M	4.4
5	☐	10000.000	10239.131	7105918.65	18.7270	A	0.5
6	☐	20000.000	19878.305	13526132.72	36.2045	A	0.6

y = 0.0018 * x + 0.1617
R = 0.9999
DL = 8.059
BEC = 89.2

Weight: <None>
Min Conc: <None>

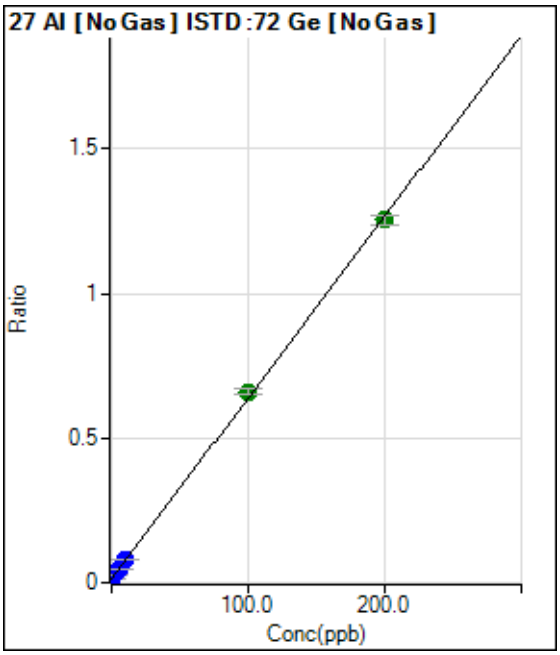
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	513.35	0.0013	P	23.2
2	☐	200.000	215.085	87980.01	0.2318	P	0.6
3	☐	500.000	533.969	220212.21	0.5735	P	1.7
4	☐	1000.000	1091.744	448820.41	1.1711	P	0.8
5	☐	10000.000	10406.493	4230977.65	11.1514	A	1.4
6	☐	20000.000	19791.166	7922621.55	21.2067	A	1.3

y = 0.0011 * x + 0.0013
R = 0.9997
DL = 0.8738
BEC = 1.254

Weight: <None>
Min Conc: <None>

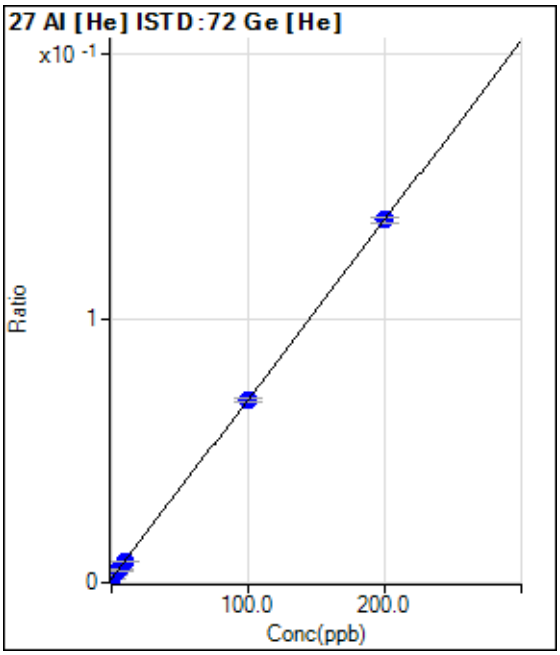


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20795.87	0.0124	P	4.1
2	☐	2.000	2.393	46150.35	0.0274	P	2.5
3	☐	5.000	5.162	75494.66	0.0448	P	1.3
4	☐	10.000	10.462	129876.01	0.0779	P	0.3
5	☐	100.000	103.428	1107173.08	0.6601	A	2.7
6	☐	200.000	198.255	2068737.16	1.2539	A	2.4

y = 0.0063 * x + 0.0124
R = 0.9998
DL = 0.2462
BEC = 1.986

Weight: <None>
Min Conc: <None>

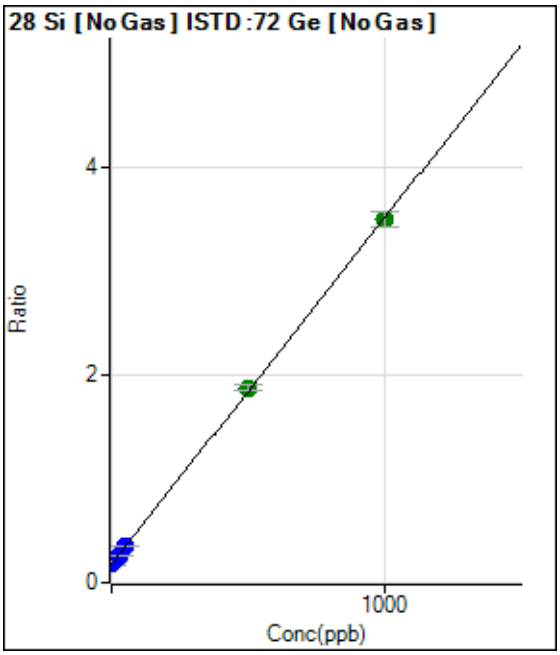
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	566.69	0.0015	P	10.4
2	☐	2.000	2.064	1096.73	0.0029	P	7.1
3	☐	5.000	4.923	1850.16	0.0048	P	16.4
4	☐	10.000	9.675	3087.07	0.0081	P	7.1
5	☐	100.000	99.886	26308.50	0.0693	P	1.8
6	☐	200.000	200.075	51318.30	0.1374	P	1.9

y = 6.7919E-004 * x + 0.0015
R = 1.0000
DL = 0.6845
BEC = 2.188

Weight: <None>
Min Conc: <None>

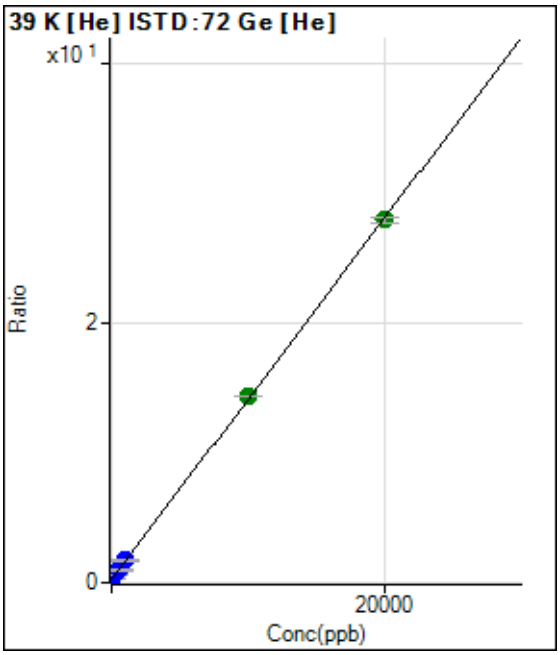


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	296202.39	0.1771	P	2.5
2	☐	10.000	9.921	353771.39	0.2102	P	0.3
3	☐	25.000	25.821	444047.93	0.2633	P	1.3
4	☐	50.000	53.255	591175.81	0.3548	P	0.8
5	☐	500.000	510.394	3152292.87	1.8800	A	3.1
6	☐	1000.000	994.621	5767206.79	3.4956	A	4.4

y = 0.0033 * x + 0.1771
R = 0.9999
DL = 3.915
BEC = 53.09

Weight: <None>
Min Conc: <None>

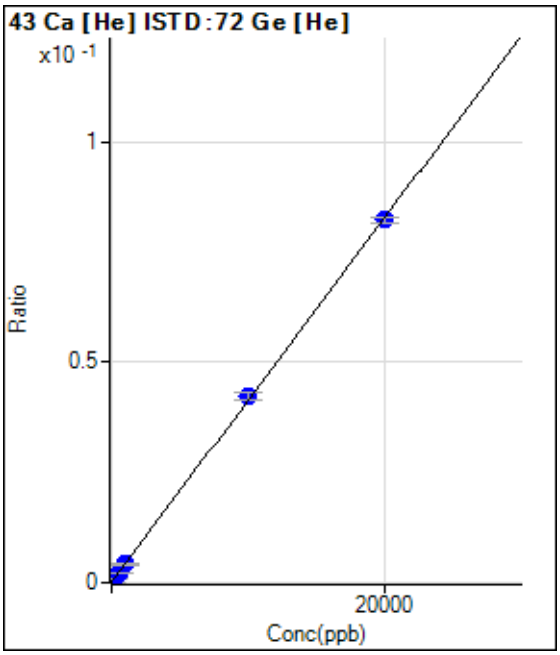
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	92810.18	0.2432	P	1.8
2	☐	200.000	207.757	201836.44	0.5318	P	0.5
3	☐	500.000	519.536	370445.10	0.9649	P	2.9
4	☐	1000.000	1050.056	652173.82	1.7018	P	1.8
5	☐	10000.000	10155.504	5444927.00	14.3498	A	1.0
6	☐	20000.000	19919.179	10427487.55	27.9122	A	1.5

y = 0.0014 * x + 0.2432
R = 1.0000
DL = 9.586
BEC = 175.1

Weight: <None>
Min Conc: <None>

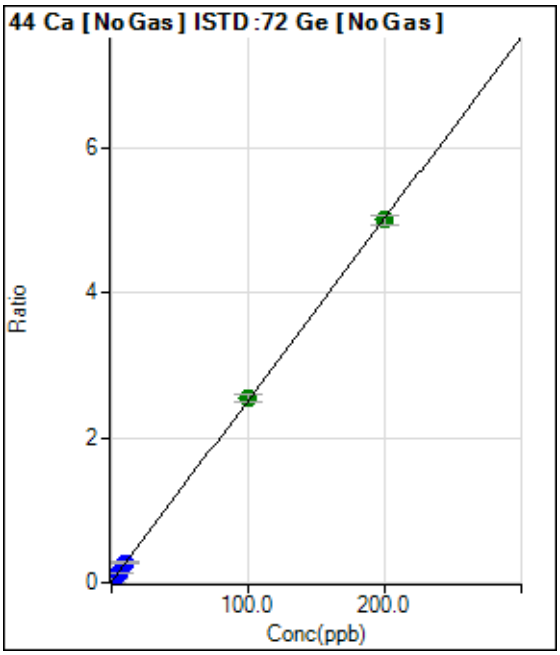


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	92.8
2	☐	200.000	200.121	356.68	0.0009	P	14.1
3	☐	500.000	516.989	863.38	0.0023	P	12.5
4	☐	1000.000	1006.355	1636.80	0.0043	P	12.3
5	☐	10000.000	10208.885	16062.98	0.0423	P	3.8
6	☐	20000.000	19894.814	30771.55	0.0824	P	1.7

y = 4.1347E-006 * x + 1.1256E-004
R = 0.9999
DL = 75.81
BEC = 27.22

Weight: <None>
Min Conc: <None>

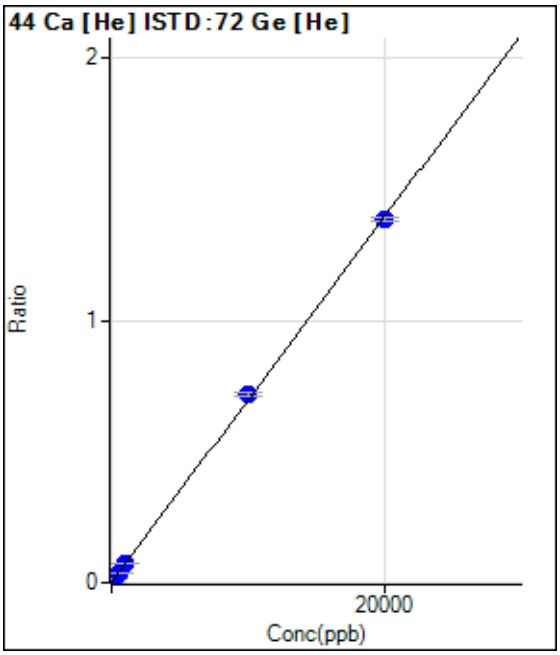
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20755.93	0.0124	P	1.3
2	☐	2.000	2.091	108992.80	0.0648	P	1.5
3	☐	5.000	5.198	240479.23	0.1426	P	2.2
4	☐	10.000	10.619	463803.91	0.2784	P	1.3
5	☐	100.000	101.306	4275016.71	2.5497	A	3.5
6	☐	200.000	199.310	8256016.34	5.0042	A	2.8

y = 0.0250 * x + 0.0124
R = 1.0000
DL = 0.0195
BEC = 0.4954

Weight: <None>
Min Conc: <None>

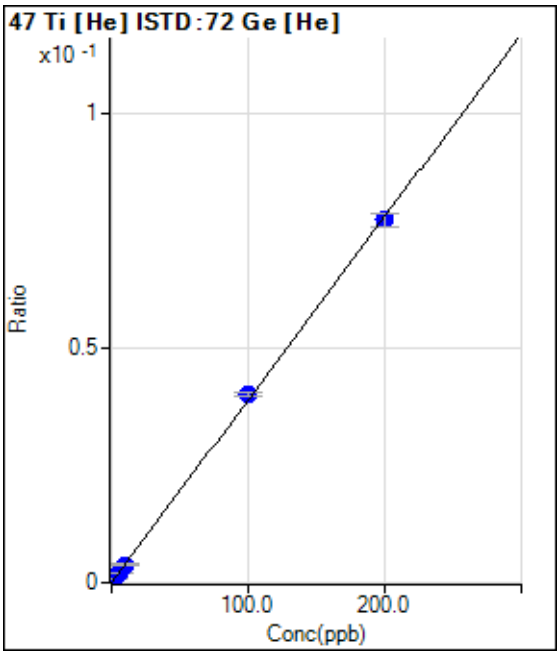


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	406.68	0.0011	P	13.1
2	☐	200.000	209.299	5938.07	0.0156	P	4.7
3	☐	500.000	502.421	13837.16	0.0361	P	6.3
4	☐	1000.000	1001.757	27147.19	0.0708	P	2.6
5	☐	10000.000	10310.349	272863.86	0.7192	P	1.9
6	☐	20000.000	19844.584	516761.24	1.3833	P	1.1

y = 6.9652E-005 * x + 0.0011
R = 0.9998
DL = 5.994
BEC = 15.3

Weight: <None>
Min Conc: <None>

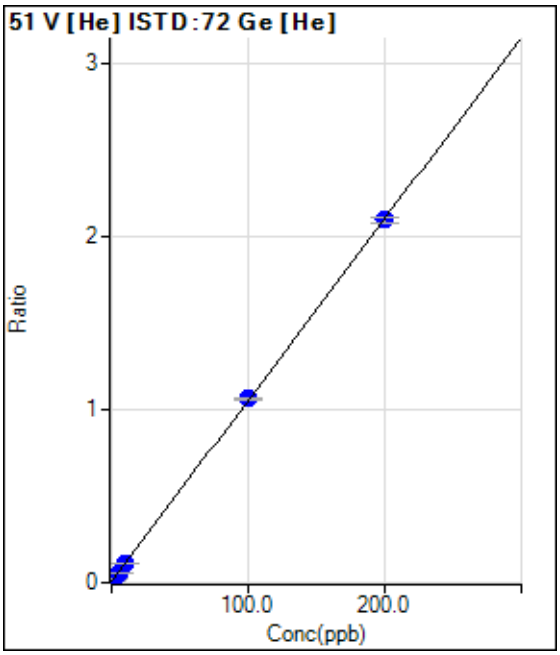
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	2.000	1.758	260.01	0.0007	P	19.0
3	☐	5.000	4.977	743.36	0.0019	P	7.7
4	☐	10.000	9.680	1443.44	0.0038	P	8.3
5	☐	100.000	103.211	15242.02	0.0402	P	1.7
6	☐	200.000	198.413	28847.29	0.0772	P	4.0

y = 3.8922E-004 * x + 0.0000E+000
R = 0.9998
DL = 0
BEC = 0

Weight: <None>
Min Conc: <None>

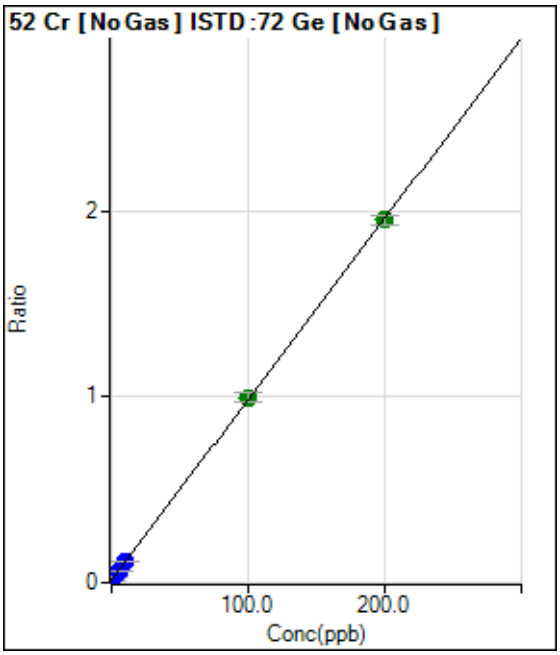


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2382.44	0.0062	P	5.1
2	☐	2.000	1.993	10303.92	0.0271	P	2.2
3	☐	5.000	4.803	21741.72	0.0566	P	2.6
4	☐	10.000	9.984	42533.56	0.1110	P	0.8
5	☐	100.000	100.818	403675.85	1.0639	P	0.7
6	☐	200.000	199.597	784554.95	2.1002	P	1.5

y = 0.0105 * x + 0.0062
R = 1.0000
DL = 0.09077
BEC = 0.5947

Weight: <None>
Min Conc: <None>

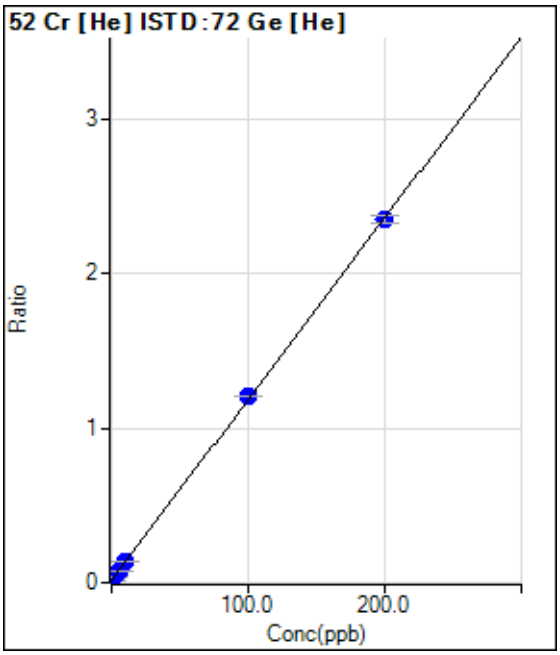
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23810.91	0.0142	P	0.9
2	☐	2.000	1.953	55887.79	0.0332	P	0.7
3	☐	5.000	5.059	106925.67	0.0634	P	2.4
4	☐	10.000	10.101	187278.43	0.1124	P	1.1
5	☐	100.000	101.198	1672511.69	0.9977	A	4.5
6	☐	200.000	199.395	3220672.76	1.9521	A	2.4

y = 0.0097 * x + 0.0142
R = 1.0000
DL = 0.03803
BEC = 1.465

Weight: <None>
Min Conc: <None>

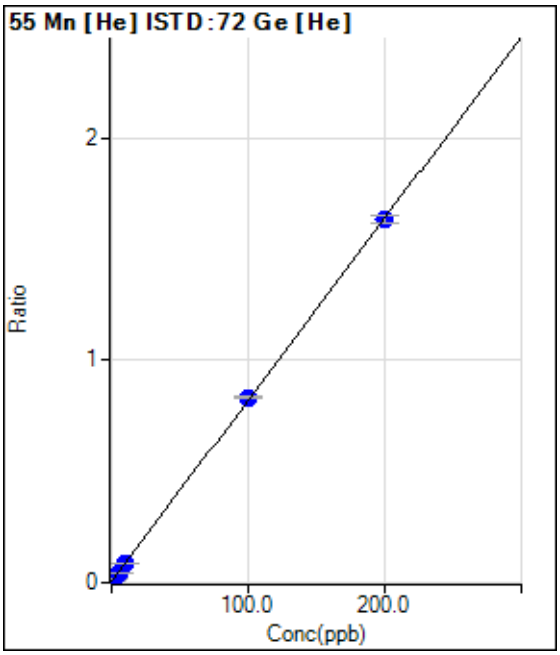


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5514.55	0.0144	P	4.6
2	☐	2.000	2.149	15035.13	0.0396	P	0.8
3	☐	5.000	4.933	27725.15	0.0722	P	3.4
4	☐	10.000	10.119	50951.65	0.1329	P	1.4
5	☐	100.000	101.686	457304.78	1.2052	P	0.3
6	☐	200.000	199.151	876550.59	2.3466	P	2.2

y = 0.0117 * x + 0.0144
R = 0.9999
DL = 0.1703
BEC = 1.233

Weight: <None>
Min Conc: <None>

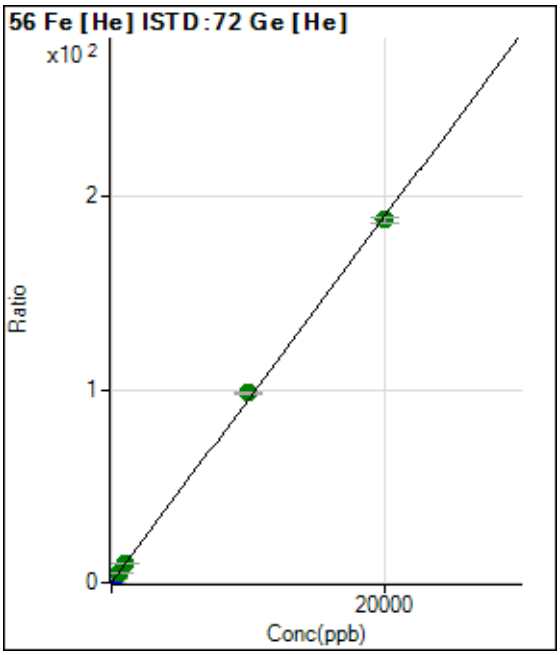
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1846.83	0.0048	P	8.3
2	☐	2.000	1.994	8015.84	0.0211	P	5.3
3	☐	5.000	4.823	16984.12	0.0442	P	2.2
4	☐	10.000	10.198	33775.41	0.0881	P	0.1
5	☐	100.000	101.497	316373.85	0.8338	P	0.5
6	☐	200.000	199.246	609671.83	1.6321	P	2.0

y = 0.0082 * x + 0.0048
R = 1.0000
DL = 0.1477
BEC = 0.5926

Weight: <None>
Min Conc: <None>

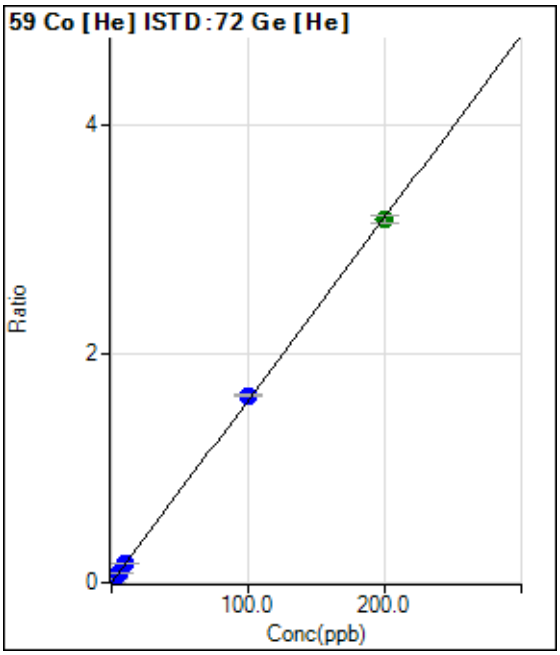


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15472.47	0.0405	P	1.6
2	☐	200.000	208.709	767193.95	2.0212	P	1.2
3	☐	500.000	523.449	1923565.02	5.0082	A	2.9
4	☐	1000.000	1032.761	3771745.05	9.8417	A	1.7
5	☐	10000.000	10349.118	37283651.11	98.2562	A	0.4
6	☐	20000.000	19823.130	70292453.95	188.1670	A	1.5

y = 0.0095 * x + 0.0405
R = 0.9998
DL = 0.2024
BEC = 4.271

Weight: <None>
Min Conc: <None>

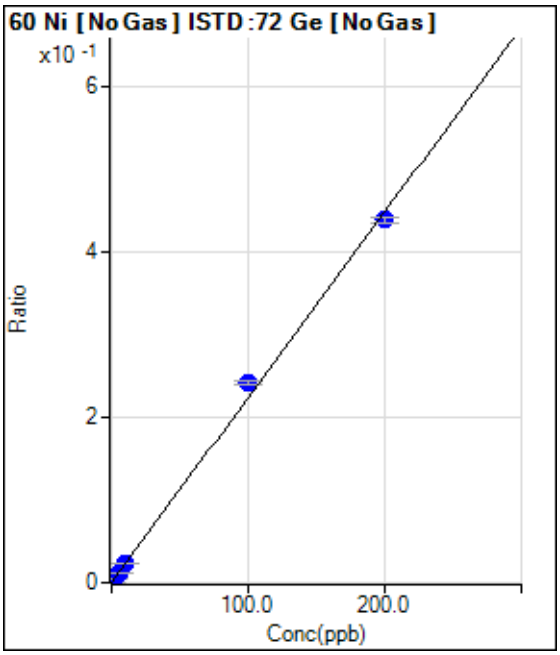
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.34	0.0009	P	14.4
2	☐	2.000	2.015	12545.95	0.0331	P	3.8
3	☐	5.000	5.019	31116.01	0.0810	P	1.1
4	☐	10.000	10.307	63421.04	0.1655	P	1.5
5	☐	100.000	102.450	621191.84	1.6370	P	0.7
6	☐	200.000	198.759	1186103.26	3.1751	A	2.0

y = 0.0160 * x + 8.7395E-004
R = 0.9999
DL = 0.02358
BEC = 0.05472

Weight: <None>
Min Conc: <None>

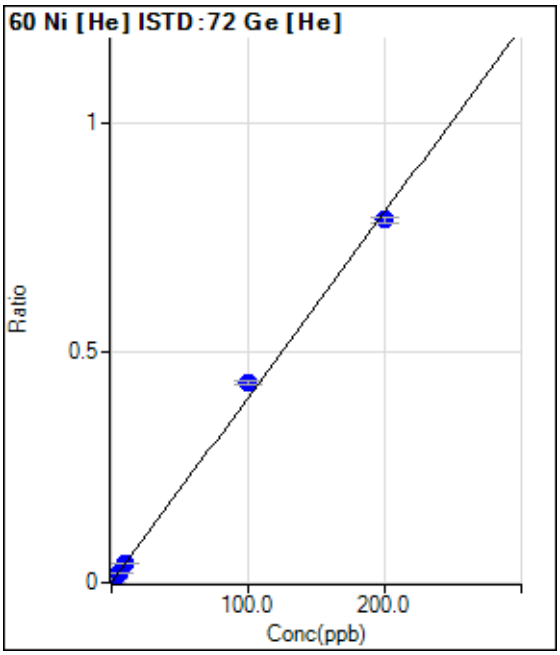


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	336.68	0.0002	P	1.4
2	☐	2.000	2.078	8169.24	0.0049	P	1.8
3	☐	5.000	5.070	19490.92	0.0116	P	1.2
4	☐	10.000	10.557	39728.22	0.0238	P	1.1
5	☐	100.000	108.079	406256.71	0.2423	P	2.7
6	☐	200.000	195.930	724402.02	0.4390	P	1.7

y = 0.0022 * x + 2.0132E-004
R = 0.9988
DL = 0.003787
BEC = 0.08989

Weight: <None>
Min Conc: <None>

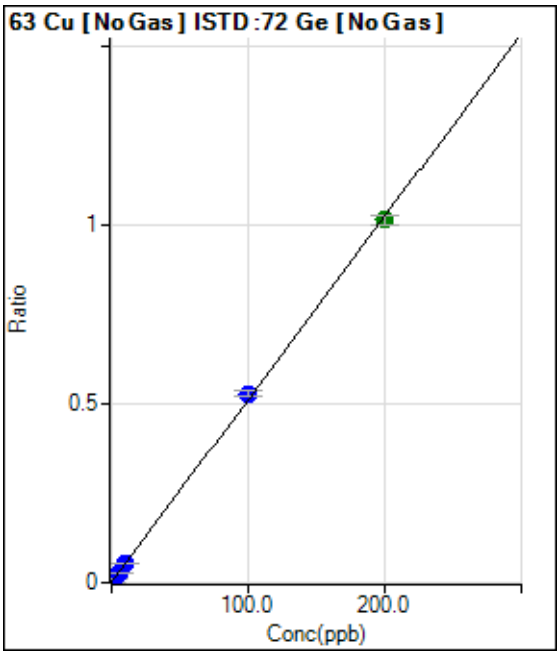
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0004	P	29.2
2	☐	2.000	1.979	3160.41	0.0083	P	2.7
3	☐	5.000	5.170	8125.92	0.0212	P	2.5
4	☐	10.000	10.249	15929.61	0.0416	P	3.4
5	☐	100.000	108.201	165216.18	0.4354	P	2.1
6	☐	200.000	195.883	294319.40	0.7879	P	1.6

y = 0.0040 * x + 3.6740E-004
R = 0.9988
DL = 0.07999
BEC = 0.09139

Weight: <None>
Min Conc: <None>

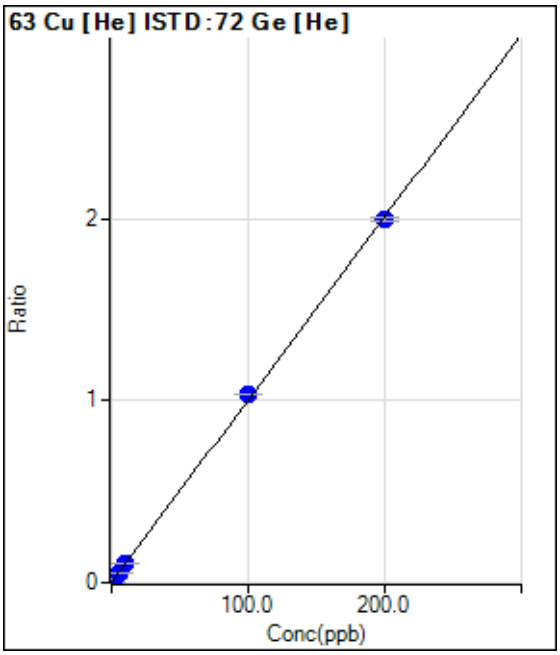


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1433.43	0.0009	P	0.7
2	☐	2.000	2.038	18956.78	0.0113	P	1.9
3	☐	5.000	5.159	45874.31	0.0272	P	2.3
4	☐	10.000	10.429	90151.51	0.0541	P	2.3
5	☐	100.000	103.411	886838.66	0.5289	P	2.9
6	☐	200.000	198.269	1671720.86	1.0133	A	2.5

y = 0.0051 * x + 8.5704E-004
R = 0.9998
DL = 0.003447
BEC = 0.1678

Weight: <None>
Min Conc: <None>

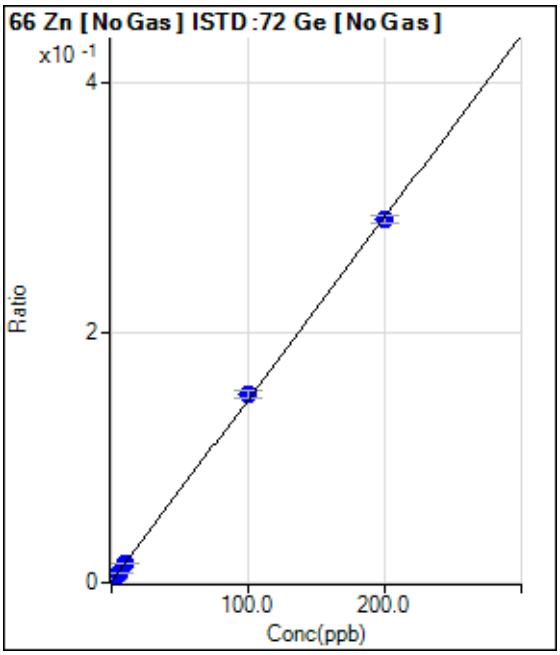
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	593.36	0.0016	P	7.8
2	☐	2.000	2.096	8572.84	0.0226	P	3.5
3	☐	5.000	5.081	20168.51	0.0525	P	2.7
4	☐	10.000	10.228	39918.94	0.1042	P	2.3
5	☐	100.000	102.851	392077.82	1.0333	P	0.6
6	☐	200.000	198.560	744678.12	1.9934	P	1.2

y = 0.0100 * x + 0.0016
R = 0.9999
DL = 0.03631
BEC = 0.1551

Weight: <None>
Min Conc: <None>

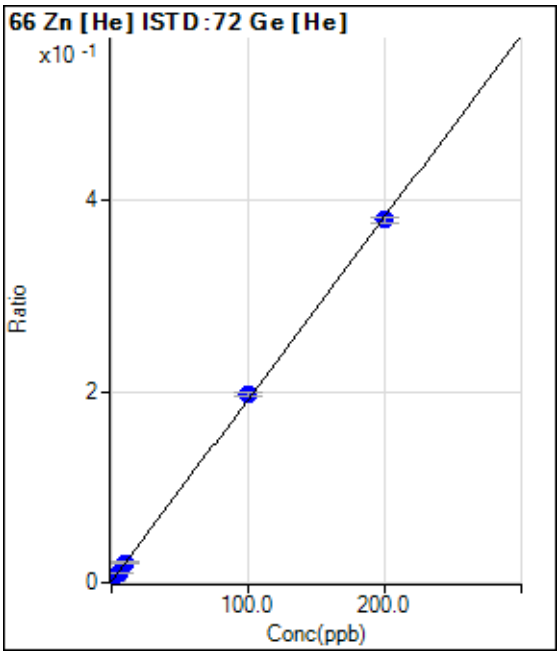


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1340.10	0.0008	P	3.4
2	☐	2.000	2.084	6464.99	0.0038	P	3.3
3	☐	5.000	4.905	13423.58	0.0080	P	2.7
4	☐	10.000	9.866	25313.84	0.0152	P	2.4
5	☐	100.000	102.679	252458.28	0.1506	P	3.9
6	☐	200.000	198.669	479503.51	0.2906	P	2.0

y = 0.0015 * x + 8.0133E-004
R = 0.9999
DL = 0.05528
BEC = 0.5493

Weight: <None>
Min Conc: <None>

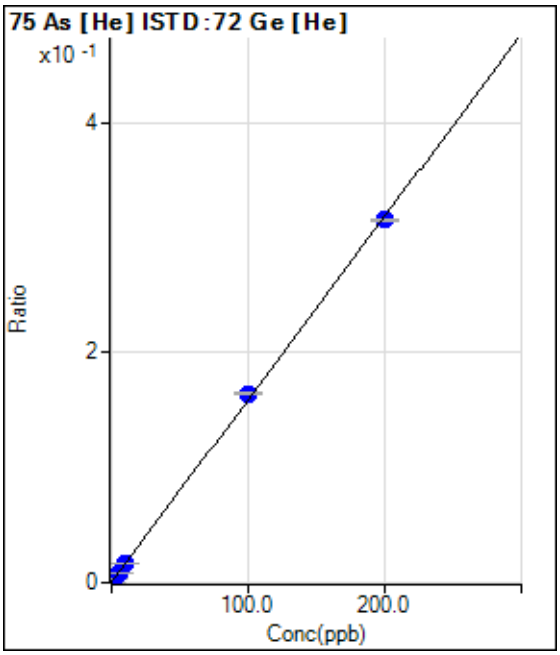
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	453.35	0.0012	P	22.8
2	☐	2.000	2.148	2006.85	0.0053	P	8.7
3	☐	5.000	4.815	3980.64	0.0104	P	3.0
4	☐	10.000	10.351	8015.84	0.0209	P	2.2
5	☐	100.000	102.966	74907.15	0.1974	P	1.6
6	☐	200.000	198.502	141802.68	0.3795	P	1.9

y = 0.0019 * x + 0.0012
R = 0.9998
DL = 0.4272
BEC = 0.6245

Weight: <None>
Min Conc: <None>

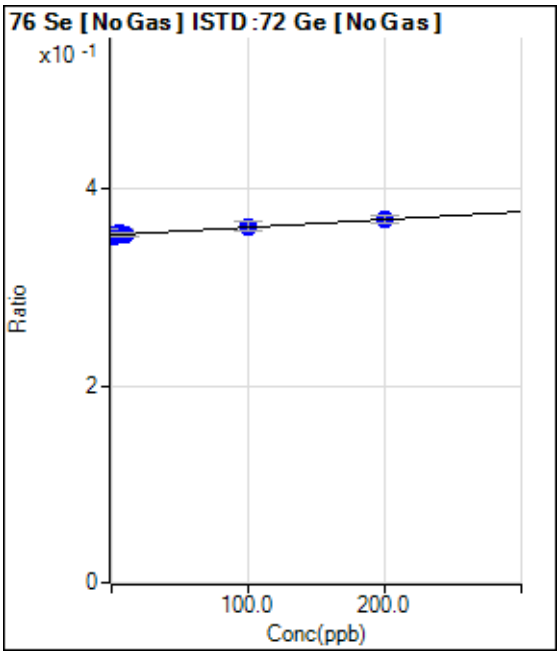


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0004	P	8.1
2	☐	2.000	1.922	1294.51	0.0034	P	2.7
3	☐	5.000	4.845	3090.37	0.0081	P	5.9
4	☐	10.000	10.116	6294.84	0.0164	P	1.7
5	☐	100.000	103.408	62457.16	0.1646	P	0.9
6	☐	200.000	198.295	117805.41	0.3153	P	0.4

y = 0.0016 * x + 3.5790E-004
R = 0.9998
DL = 0.05446
BEC = 0.2253

Weight: <None>
Min Conc: <None>

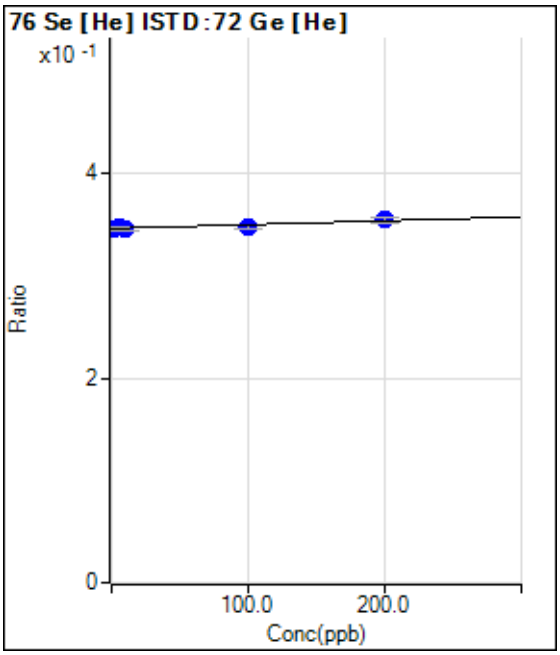
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	590430.42	0.3530	P	0.9
2	☐	2.000	-12.556	592397.88	0.3520	P	0.6
3	☐	5.000	38.698	600543.52	0.3561	P	1.9
4	☐	10.000	7.834	589249.60	0.3537	P	1.0
5	☐	100.000	109.738	606617.14	0.3617	P	2.5
6	☐	200.000	194.542	607910.41	0.3684	P	2.2

y = 7.9187E-005 * x + 0.3530
R = 0.9788
DL = 119.5
BEC = 4458

Weight: <None>
Min Conc: <None>

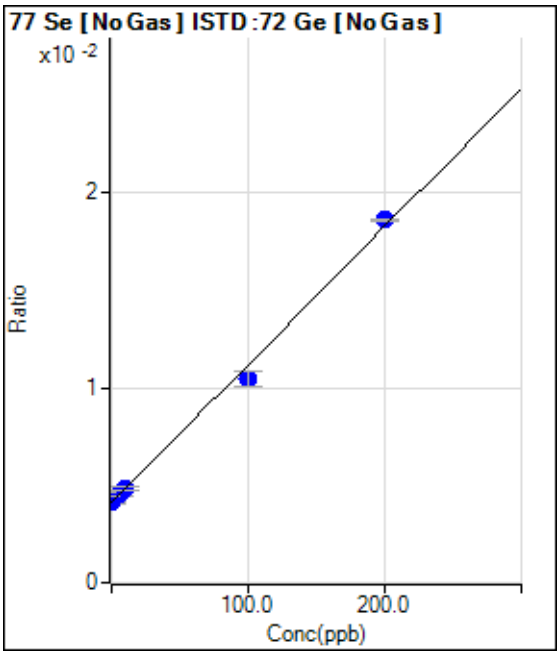


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	132281.93	0.3467	P	3.1
2	☐	2.000	-19.549	131281.57	0.3459	P	0.9
3	☐	5.000	22.197	133461.60	0.3475	P	0.7
4	☐	10.000	-16.696	132608.58	0.3460	P	1.2
5	☐	100.000	59.862	132382.12	0.3489	P	1.1
6	☐	200.000	221.189	132607.70	0.3550	P	1.8

y = 3.7662E-005 * x + 0.3467
R = 0.9646
DL = 862.6
BEC = 9204

Weight: <None>
Min Conc: <None>

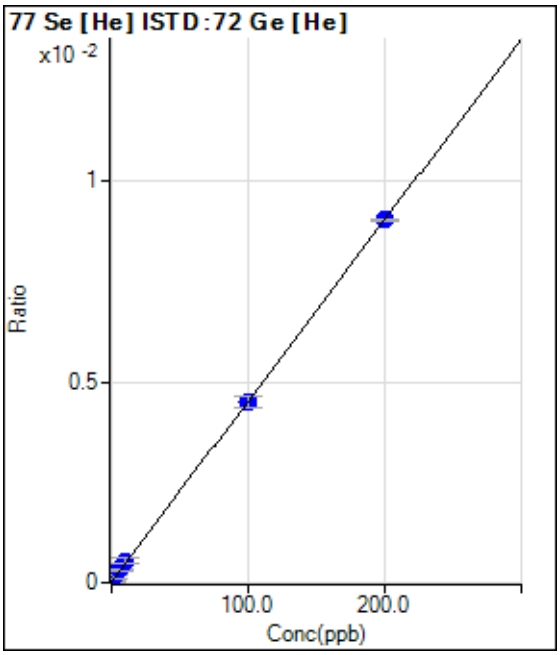
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6845.19	0.0041	P	2.2
2	☐	2.000	3.889	7348.80	0.0044	P	0.3
3	☐	5.000	6.388	7665.65	0.0045	P	5.9
4	☐	10.000	10.442	8049.23	0.0048	P	4.0
5	☐	100.000	90.336	17578.43	0.0105	P	7.6
6	☐	200.000	204.756	30691.99	0.0186	P	0.5

y = 7.0852E-005 * x + 0.0041
R = 0.9982
DL = 3.883
BEC = 57.75

Weight: <None>
Min Conc: <None>

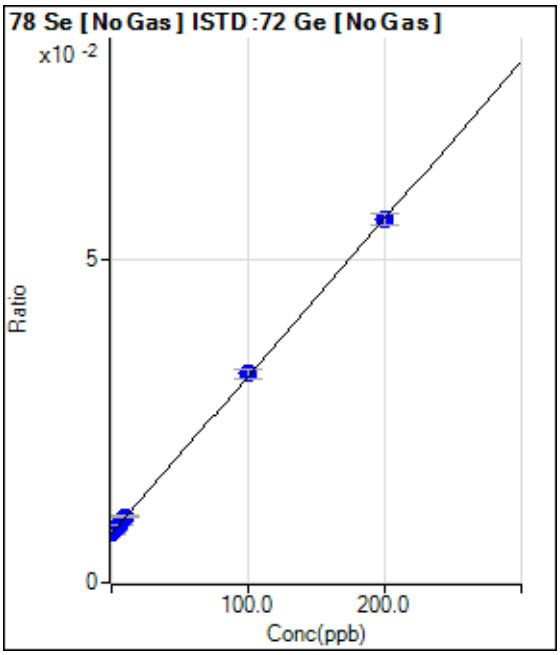


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	2.000	2.542	50.00	0.0001	P	60.0
3	☐	5.000	6.569	120.00	0.0003	P	23.7
4	☐	10.000	11.598	206.67	0.0005	P	29.7
5	☐	100.000	99.326	1703.47	0.0045	P	6.7
6	☐	200.000	200.212	3373.81	0.0090	P	0.2

y = 4.5016E-005 * x + 1.7599E-005
R = 1.0000
DL = 1.016
BEC = 0.3909

Weight: <None>
Min Conc: <None>

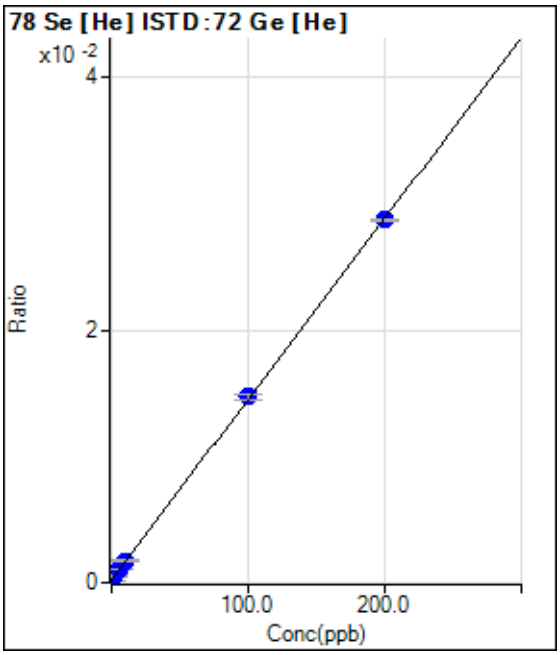
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12759.59	0.0076	P	4.6
2	☐	2.000	2.246	13763.98	0.0082	P	2.1
3	☐	5.000	5.609	15182.08	0.0090	P	1.5
4	☐	10.000	10.719	17074.35	0.0102	P	1.6
5	☐	100.000	101.441	54323.02	0.0324	P	4.2
6	☐	200.000	199.226	92842.46	0.0563	P	3.1

y = 2.4416E-004 * x + 0.0076
R = 1.0000
DL = 4.359
BEC = 31.25

Weight: <None>
Min Conc: <None>

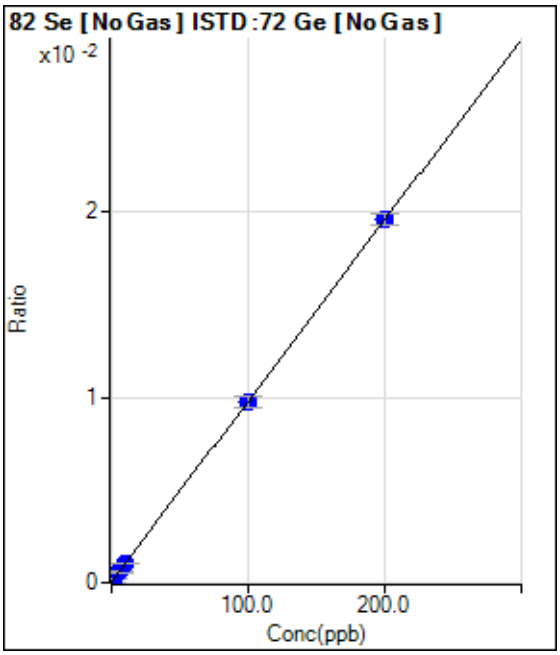


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.67	0.0002	P	15.4
2	☐	2.000	2.184	198.67	0.0005	P	12.3
3	☐	5.000	5.721	395.34	0.0010	P	4.0
4	☐	10.000	10.682	666.02	0.0017	P	3.8
5	☐	100.000	101.265	5572.51	0.0147	P	3.3
6	☐	200.000	199.314	10720.29	0.0287	P	0.9

y = 1.4291E-004 * x + 2.1103E-004
R = 1.0000
DL = 0.6828
BEC = 1.477

Weight: <None>
Min Conc: <None>

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.87	0.0000	P	13.4
2	☐	2.000	1.441	311.67	0.0002	P	16.0
3	☐	5.000	5.532	985.21	0.0006	P	12.8
4	☐	10.000	10.154	1725.31	0.0010	P	0.4
5	☐	100.000	99.494	16348.44	0.0098	P	5.9
6	☐	200.000	200.238	32307.67	0.0196	P	3.2

y = 9.7576E-005 * x + 4.4674E-005

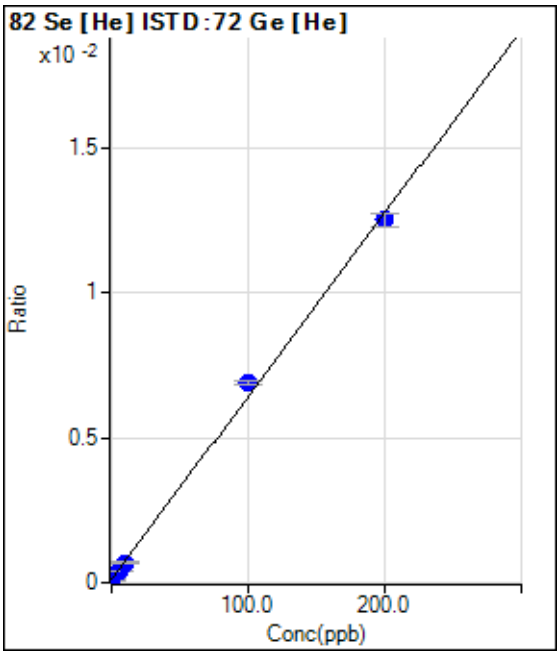
R = 1.0000

DL = 0.184

BEC = 0.4578

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	72.9
2	☐	2.000	2.801	110.00	0.0003	P	9.6
3	☐	5.000	4.382	150.00	0.0004	P	11.3
4	☐	10.000	9.214	266.68	0.0007	P	8.6
5	☐	100.000	107.278	2616.97	0.0069	P	1.7
6	☐	200.000	196.408	4684.24	0.0125	P	3.9

y = 6.3245E-005 * x + 1.1277E-004

R = 0.9990

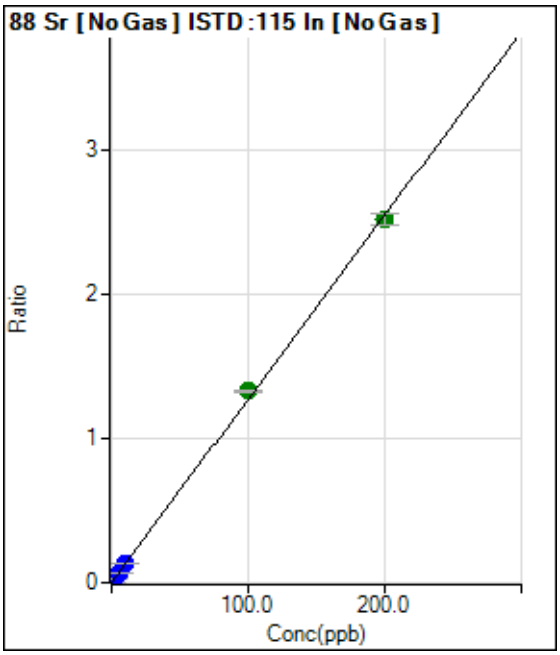
DL = 3.897

BEC = 1.783

Weight: <None>

Min Conc: <None>

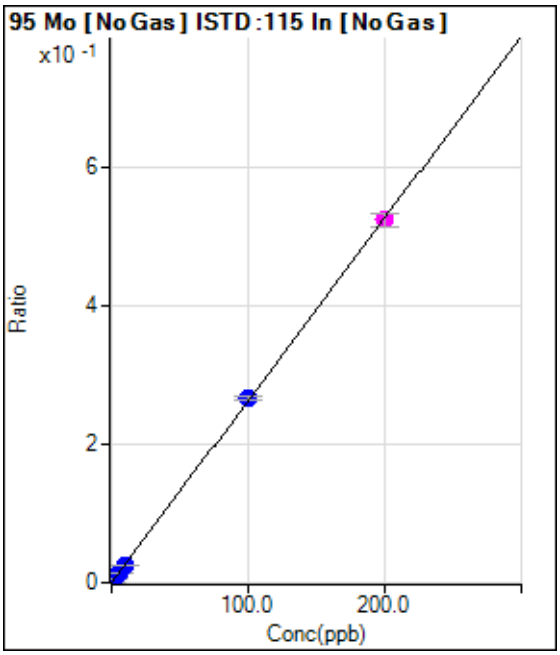
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	553.36	0.0003	P	8.4
2	☐	2.000	2.067	48655.63	0.0266	P	0.5
3	☐	5.000	5.251	123564.22	0.0672	P	2.1
4	☐	10.000	10.265	247397.27	0.1311	P	0.5
5	☐	100.000	104.604	2438915.49	1.3333	A	0.9
6	☐	200.000	197.678	4560698.58	2.5194	A	3.1

y = 0.0127 * x + 2.9579E-004
R = 0.9996
DL = 0.005856
BEC = 0.02321

Weight: <None>
Min Conc: <None>

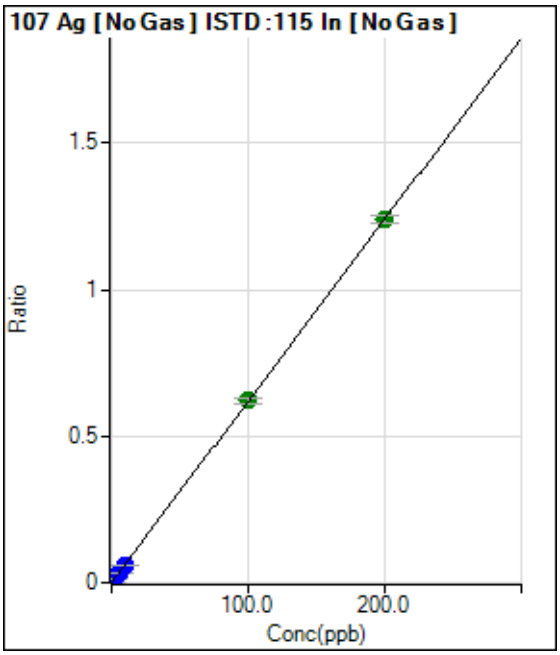


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.34	0.0001	P	28.8
2	☐	2.000	1.924	9356.75	0.0051	P	2.2
3	☐	5.000	4.933	23948.59	0.0130	P	2.1
4	☐	10.000	9.704	48237.92	0.0256	P	2.3
5	☐	100.000	101.603	488242.35	0.2669	P	2.3
6	☐	200.000	199.216	947239.85	0.5233	M	3.4

y = 0.0026 * x + 7.0973E-005
R = 1.0000
DL = 0.02333
BEC = 0.02702

Weight: <None>
Min Conc: <None>

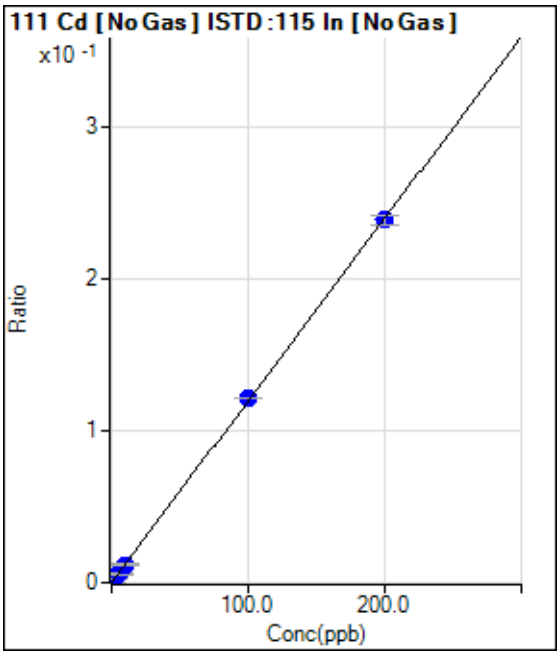
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	20.9
2	☐	2.000	2.078	23674.75	0.0130	P	2.9
3	☐	5.000	5.017	57280.68	0.0312	P	3.1
4	☐	10.000	9.960	116559.08	0.0618	P	1.4
5	☐	100.000	100.259	1135667.01	0.6209	A	2.8
6	☐	200.000	199.871	2241233.20	1.2378	A	2.2

y = 0.0062 * x + 9.4472E-005
R = 1.0000
DL = 0.009561
BEC = 0.01526

Weight: <None>
Min Conc: <None>

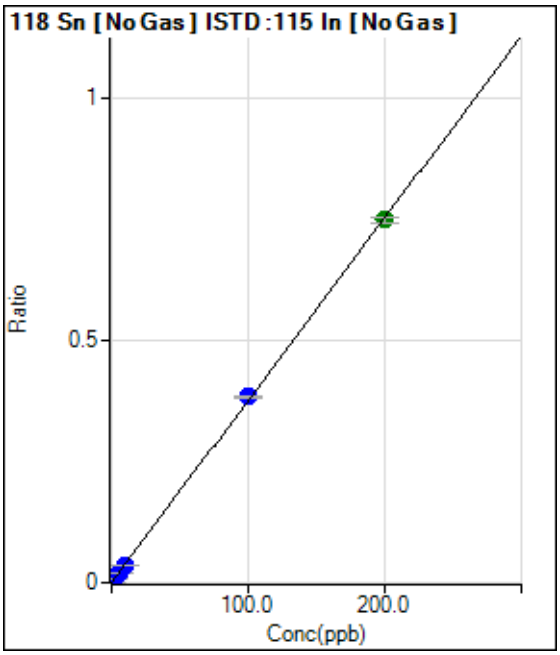


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.76	0.0000	P	87.3
2	☐	2.000	2.021	4435.89	0.0024	P	5.0
3	☐	5.000	4.825	10633.34	0.0058	P	3.8
4	☐	10.000	9.878	22317.65	0.0118	P	4.9
5	☐	100.000	101.246	221614.64	0.1211	P	0.4
6	☐	200.000	199.387	431835.76	0.2386	P	2.9

y = 0.0012 * x + 1.0460E-005
R = 1.0000
DL = 0.0229
BEC = 0.008743

Weight: <None>
Min Conc: <None>

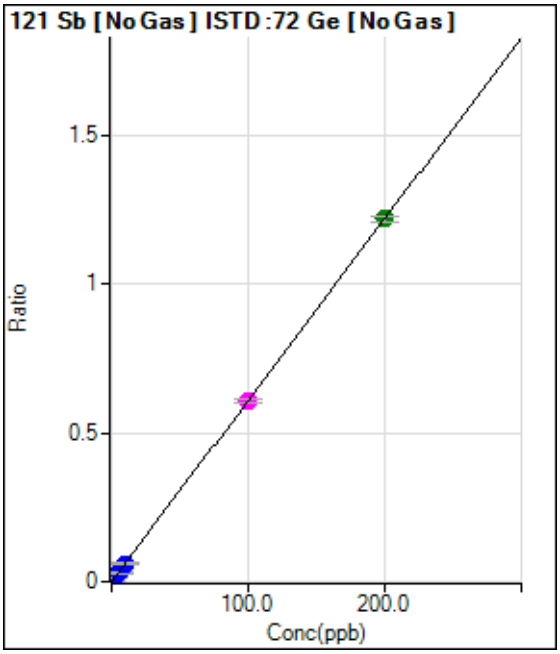
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	573.36	0.0003	P	5.1
2	☐	2.000	1.935	13854.29	0.0076	P	1.6
3	☐	5.000	5.011	35217.57	0.0192	P	3.4
4	☐	10.000	9.801	70167.74	0.0372	P	0.9
5	☐	100.000	101.822	701433.27	0.3834	P	0.8
6	☐	200.000	199.099	1356844.09	0.7494	A	1.7

y = 0.0038 * x + 3.0604E-004
R = 0.9999
DL = 0.01233
BEC = 0.08134

Weight: <None>
Min Conc: <None>

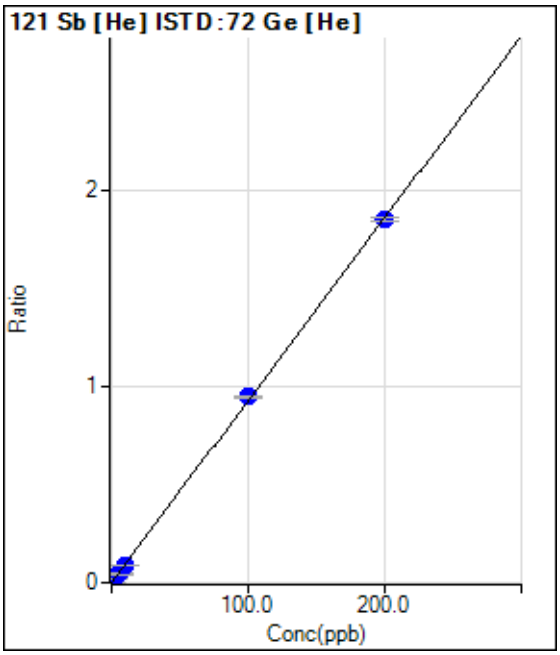


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0001	P	17.8
2	☐	2.000	1.908	19755.24	0.0117	P	2.6
3	☐	5.000	4.847	50028.84	0.0297	P	3.8
4	☐	10.000	10.049	102307.69	0.0614	P	0.8
5	☐	100.000	99.786	1021053.89	0.6088	M	2.1
6	☐	200.000	200.109	2014435.44	1.2208	A	1.3

y = 0.0061 * x + 1.0192E-004
R = 1.0000
DL = 0.008898
BEC = 0.01671

Weight: <None>
Min Conc: <None>

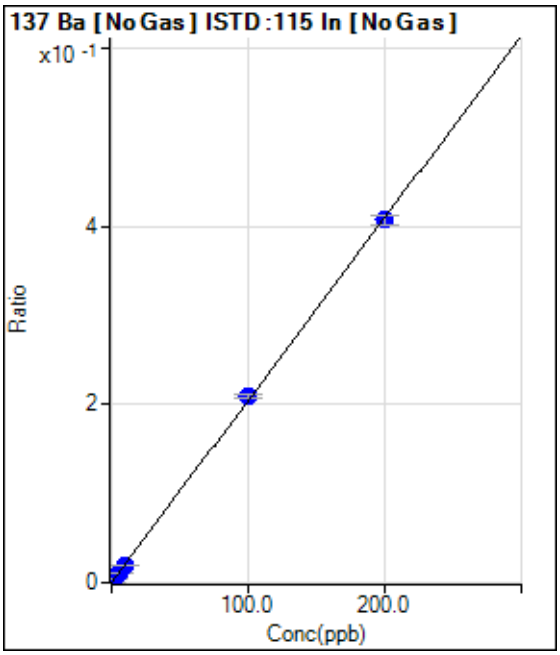
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0001	P	35.6
2	☐	2.000	1.894	6698.51	0.0176	P	5.8
3	☐	5.000	4.779	17031.28	0.0444	P	5.5
4	☐	10.000	9.680	34412.15	0.0898	P	3.3
5	☐	100.000	101.847	358191.31	0.9439	P	0.9
6	☐	200.000	199.099	689345.95	1.8452	P	1.0

y = 0.0093 * x + 8.7600E-005
R = 0.9999
DL = 0.01009
BEC = 0.009453

Weight: <None>
Min Conc: <None>

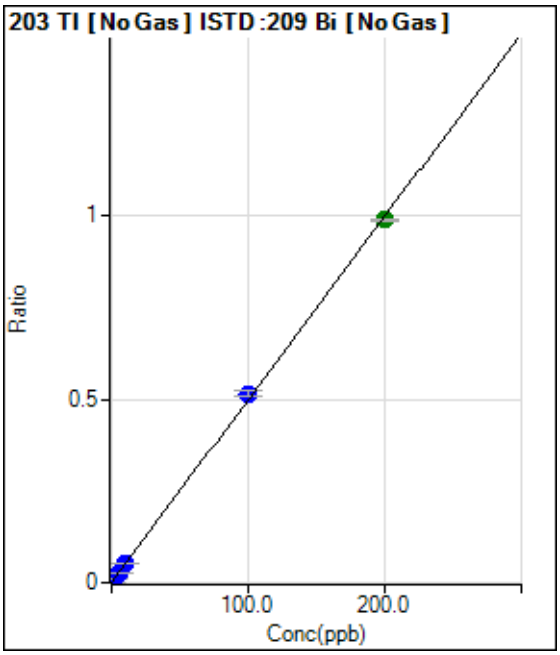


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.68	0.0001	P	18.0
2	☐	2.000	2.058	7865.87	0.0043	P	5.9
3	☐	5.000	4.878	18526.82	0.0101	P	1.8
4	☐	10.000	9.858	38236.59	0.0203	P	1.4
5	☐	100.000	101.969	381605.67	0.2086	P	2.1
6	☐	200.000	199.025	736990.41	0.4071	P	2.8

y = 0.0020 * x + 9.9582E-005
R = 0.9999
DL = 0.0263
BEC = 0.04869

Weight: <None>
Min Conc: <None>

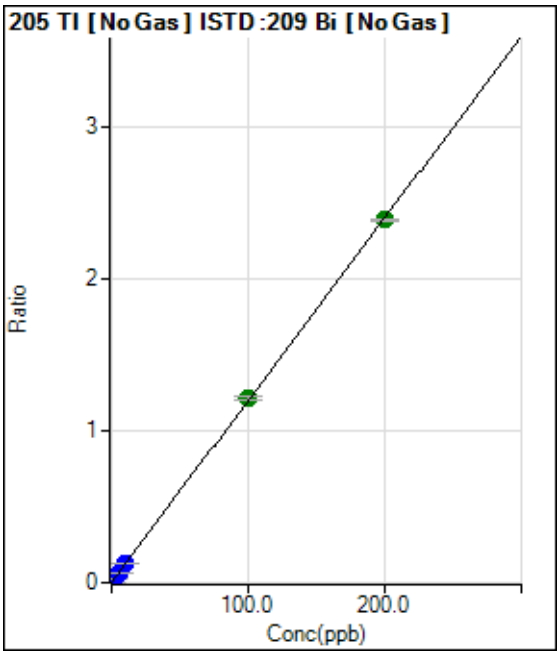
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	810.05	0.0006	P	6.8
2	☐	2.000	2.015	15756.91	0.0106	P	5.3
3	☐	5.000	5.191	39275.61	0.0264	P	4.2
4	☐	10.000	10.449	77952.82	0.0526	P	4.2
5	☐	100.000	103.359	741646.21	0.5158	P	2.4
6	☐	200.000	198.293	1410613.94	0.9890	A	0.8

y = 0.0050 * x + 5.5932E-004
R = 0.9998
DL = 0.02302
BEC = 0.1122

Weight: <None>
Min Conc: <None>

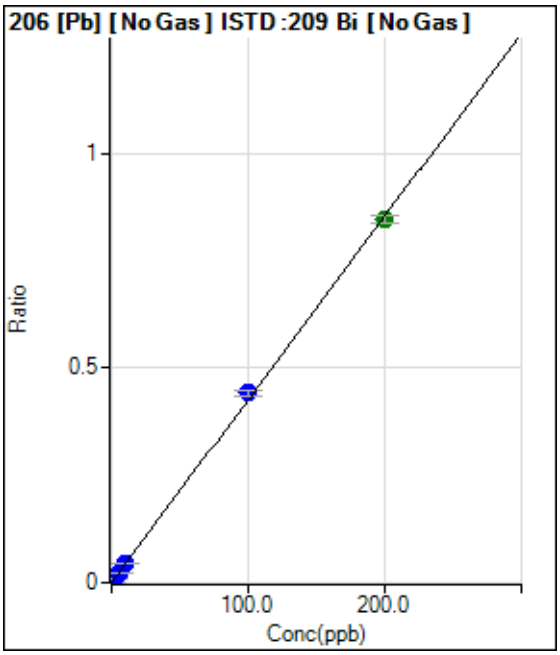


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1823.51	0.0013	P	7.2
2	☐	2.000	2.018	37834.57	0.0255	P	2.6
3	☐	5.000	5.144	93560.59	0.0629	P	1.0
4	☐	10.000	10.293	184589.07	0.1247	P	2.1
5	☐	100.000	101.631	1753958.05	1.2196	A	2.0
6	☐	200.000	199.166	3406931.61	2.3889	A	0.8

y = 0.0120 * x + 0.0013
R = 1.0000
DL = 0.02273
BEC = 0.105

Weight: <None>
Min Conc: <None>

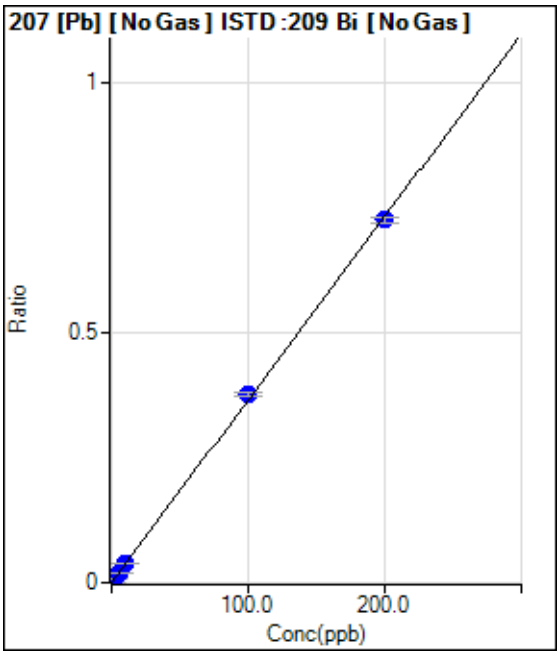
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	240.01	0.0002	P	27.8
2	☐	2.000	1.969	12733.41	0.0086	P	3.3
3	☐	5.000	5.014	32055.28	0.0216	P	3.0
4	☐	10.000	10.120	64201.87	0.0434	P	1.4
5	☐	100.000	103.574	635756.46	0.4422	P	2.9
6	☐	200.000	198.207	1206415.97	0.8460	A	2.1

y = 0.0043 * x + 1.6627E-004
R = 0.9998
DL = 0.03248
BEC = 0.03896

Weight: <None>
Min Conc: <None>

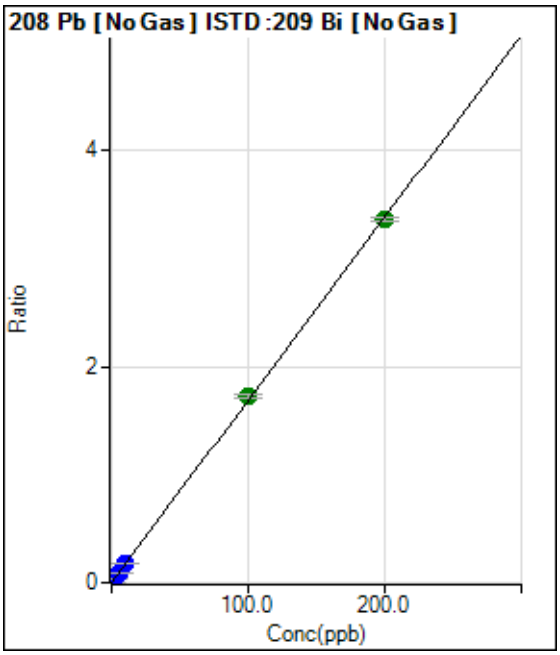


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	22.0
2	☐	2.000	1.902	10538.01	0.0071	P	2.2
3	☐	5.000	4.951	27116.55	0.0182	P	2.4
4	☐	10.000	10.144	55162.26	0.0373	P	2.4
5	☐	100.000	103.162	543225.26	0.3778	P	1.5
6	☐	200.000	198.414	1035948.22	0.7265	P	1.4

y = 0.0037 * x + 1.2180E-004
R = 0.9998
DL = 0.02196
BEC = 0.03327

Weight: <None>
Min Conc: <None>

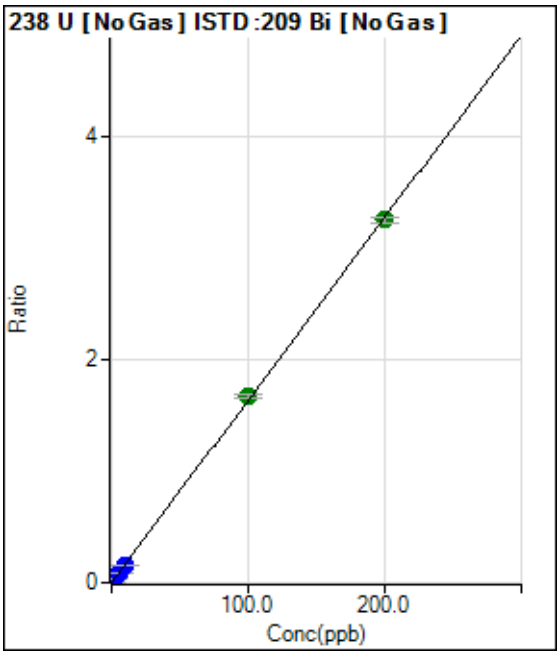
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	860.03	0.0006	P	5.2
2	☐	2.000	1.952	49863.49	0.0335	P	1.9
3	☐	5.000	4.970	125585.56	0.0845	P	1.3
4	☐	10.000	10.121	253859.02	0.1714	P	2.3
5	☐	100.000	102.410	2486454.18	1.7293	A	2.6
6	☐	200.000	198.790	4786374.52	3.3562	A	1.0

y = 0.0169 * x + 5.9369E-004
R = 0.9999
DL = 0.005527
BEC = 0.03517

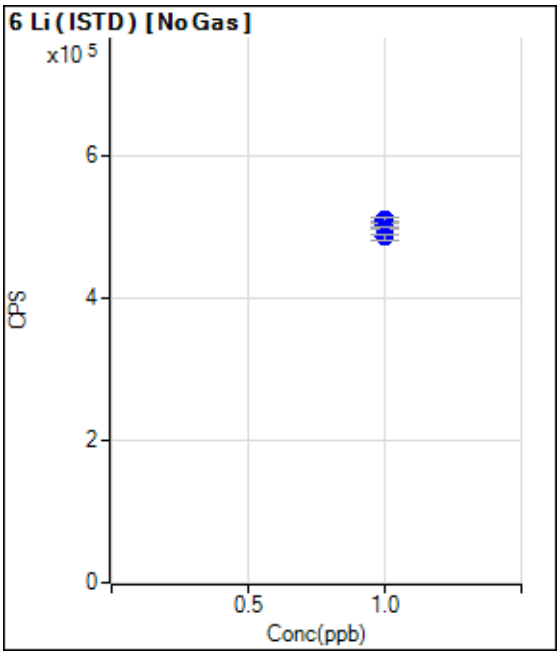
Weight: <None>
Min Conc: <None>



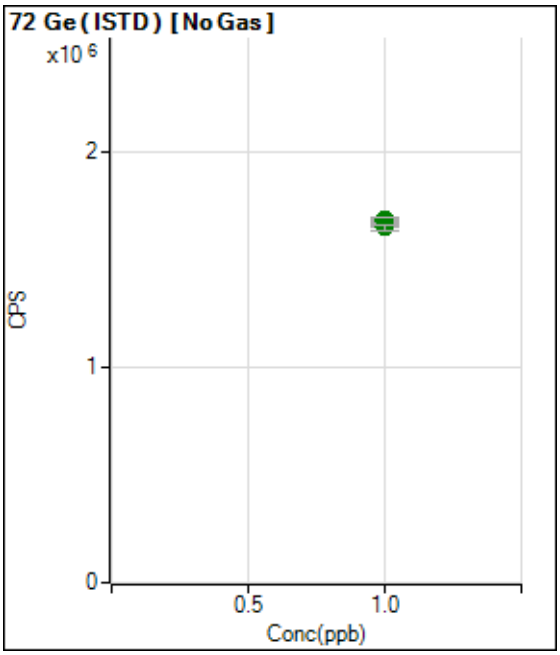
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206.67	0.0001	P	34.5
2	☐	2.000	1.922	47043.98	0.0316	P	2.4
3	☐	5.000	4.865	118703.05	0.0799	P	2.8
4	☐	10.000	9.807	238189.20	0.1609	P	2.6
5	☐	100.000	102.232	2409374.76	1.6756	A	2.1
6	☐	200.000	198.898	4648517.23	3.2598	A	1.4

y = 0.0164 * x + 1.4320E-004
R = 0.9999
DL = 0.009052
BEC = 0.008738

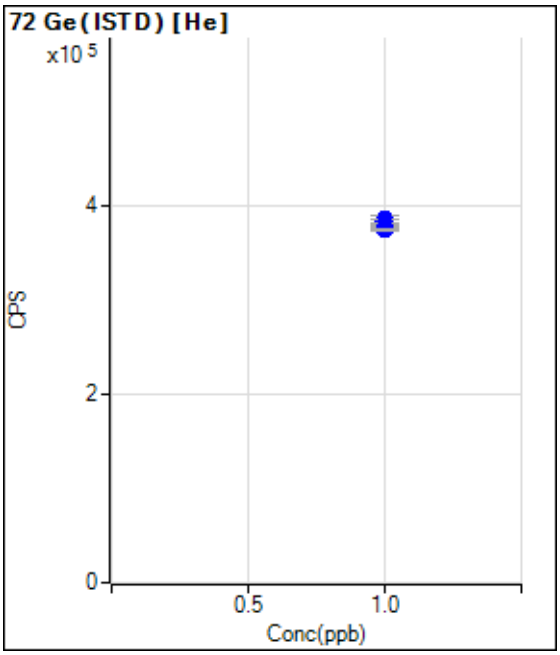
Weight: <None>
Min Conc: <None>



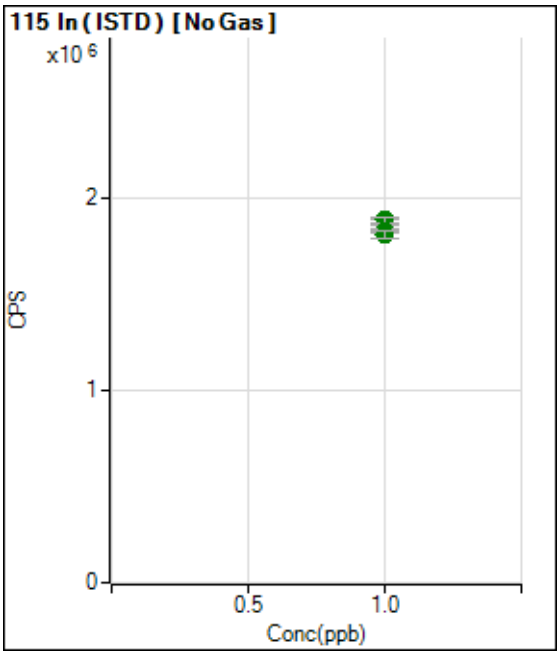
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		502306.34		P	1.4
2	☐	1.000		507143.08		P	0.8
3	☐	1.000		510710.82		P	1.2
4	☐	1.000		509134.45		P	1.6
5	☐	1.000		498327.12		P	0.5
6	☐	1.000		486976.88		P	1.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1672653.26		A	2.5
2	☐	1.000		1682735.55		A	0.1
3	☐	1.000		1686776.96		A	1.6
4	☐	1.000		1666188.26		A	0.6
5	☐	1.000		1677637.27		A	2.7
6	☐	1.000		1650290.81		A	1.6

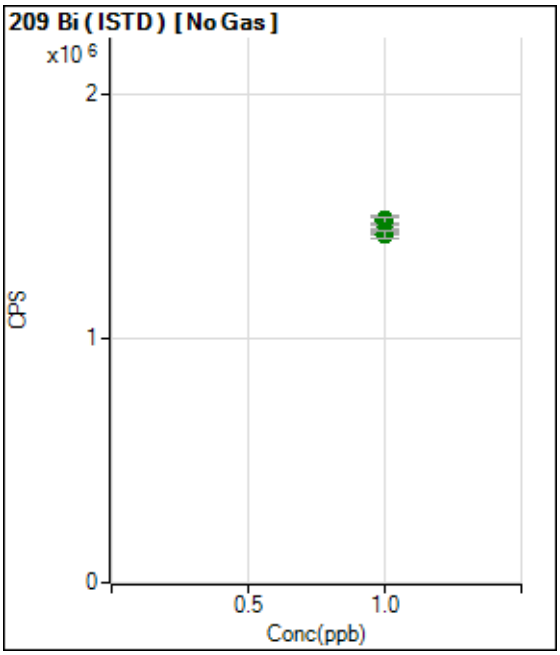


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		381709.71		P	1.4
2	☐	1.000		379541.80		P	1.1
3	☐	1.000		384102.74		P	2.5
4	☐	1.000		383257.55		P	0.9
5	☐	1.000		379443.84		P	0.9
6	☐	1.000		373603.21		P	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1872489.39		A	1.7
2	☐	1.000		1826438.46		A	1.0
3	☐	1.000		1838690.05		A	1.8
4	☐	1.000		1887106.58		A	1.6
5	☐	1.000		1829335.53		A	1.3
6	☐	1.000		1810934.78		A	2.3

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1449391.80		A	2.2
2	☐	1.000		1486779.77		A	1.9
3	☐	1.000		1486750.66		A	2.7
4	☐	1.000		1481241.59		A	2.5
5	☐	1.000		1438260.76		A	1.8
6	☐	1.000		1426251.65		A	1.7

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	015CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:06:46-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	31398	0.01
Be	9	1	No Gas	28	190.28
V	51	2	He	2382	0.26
Cr	52	2	He	5515	0.11
Fe	56	2	He	15472	0.01
Se	78	2	He	81	20.92
As	75	2	He	137	6.44
Ca	44	2	He	407	3.10
Na	23	2	He	61723	0.00
Mg	24	2	He	513	4.57
K	39	2	He	92810	0.00
Mn	55	2	He	1847	0.43
Co	59	2	He	333	4.06
Ni	60	2	He	140	20.41
Cu	63	2	He	593	1.15
Zn	66	2	He	453	4.73
Al	27	2	He	567	1.60
B	11	1	No Gas	7944	0.03
Al	27	1	No Gas	20796	0.02
Si	28	1	No Gas	296202	0.00
Ag	107	1	No Gas	177	11.25
Cd	111	1	No Gas	20	449.24
Sr	88	1	No Gas	553	1.24
Mo	95	1	No Gas	133	22.73
Sn	118	1	No Gas	573	1.15
Sb	121	1	No Gas	170	9.15
Ba	137	1	No Gas	187	10.08
Tl	205	1	No Gas	1824	0.41
Tl	203	1	No Gas	810	0.66
Pb	208	1	No Gas	860	0.47
U	238	1	No Gas	207	15.94
Ca	43	2	He	43	215.23
Sb	121	2	He	33	103.92
Cu	63	1	No Gas	1433	0.15

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	No Gas	502306	1.44

Calibration Blank Report

Ge	72	2	He	381710	1.43
Ge	72	1	No Gas	1672653	2.46
In	115	1	No Gas	1872489	1.74
Bi	209	1	No Gas	1449392	2.22

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	016CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:08:43-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	4361	0.03
V	51	2	He	10304	0.03
Cr	52	2	He	15035	0.01
Fe	56	2	He	767194	0.00
Se	78	2	He	199	6.61
As	75	2	He	1295	0.12
Ca	44	2	He	5938	0.09
Na	23	2	He	209581	0.00
Mg	24	2	He	87980	0.00
K	39	2	He	201836	0.00
Mn	55	2	He	8016	0.05
Co	59	2	He	12546	0.03
Ni	60	2	He	3160	0.12
Cu	63	2	He	8573	0.05
Zn	66	2	He	2007	0.49
Al	27	2	He	1097	0.75
B	11	1	No Gas	21273	0.01
Al	27	1	No Gas	46150	0.01
Si	28	1	No Gas	353771	0.00
Ag	107	1	No Gas	23675	0.02
Cd	111	1	No Gas	4436	0.12
Sr	88	1	No Gas	48656	0.00
Mo	95	1	No Gas	9357	0.02
Sn	118	1	No Gas	13854	0.02
Sb	121	1	No Gas	19755	0.01
Ba	137	1	No Gas	7866	0.06
Tl	205	1	No Gas	37835	0.00
Tl	203	1	No Gas	15757	0.03
Pb	208	1	No Gas	49863	0.00
U	238	1	No Gas	47044	0.00
Ca	43	2	He	357	3.88
Sb	121	2	He	6699	0.10
Cu	63	1	No Gas	18957	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	507143	0.85	502306	100.96	70	120	
Ge	72	2	He	379542	1.12	381710	99.43	70	120	
Ge	72	1	No Gas	1682736	0.12	1672653	100.60	70	120	

Calibration Standard Report

In	115	1	No Gas	1826438	1.01	1872489	97.54	70	120	
Bi	209	1	No Gas	1486780	1.91	1449392	102.58	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:10:41-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	10486	0.03
V	51	2	He	21742	0.00
Cr	52	2	He	27725	0.01
Fe	56	2	He	1923565	0.00
Se	78	2	He	395	1.58
As	75	2	He	3090	0.11
Ca	44	2	He	13837	0.03
Na	23	2	He	435468	0.00
Mg	24	2	He	220212	0.00
K	39	2	He	370445	0.00
Mn	55	2	He	16984	0.01
Co	59	2	He	31116	0.00
Ni	60	2	He	8126	0.05
Cu	63	2	He	20169	0.01
Zn	66	2	He	3981	0.05
Al	27	2	He	1850	0.75
B	11	1	No Gas	41003	0.01
Al	27	1	No Gas	75495	0.00
Si	28	1	No Gas	444048	0.00
Ag	107	1	No Gas	57281	0.00
Cd	111	1	No Gas	10633	0.04
Sr	88	1	No Gas	123564	0.00
Mo	95	1	No Gas	23949	0.00
Sn	118	1	No Gas	35218	0.01
Sb	121	1	No Gas	50029	0.01
Ba	137	1	No Gas	18527	0.01
Tl	205	1	No Gas	93561	0.00
Tl	203	1	No Gas	39276	0.00
Pb	208	1	No Gas	125586	0.00
U	238	1	No Gas	118703	0.00
Ca	43	2	He	863	1.34
Sb	121	2	He	17031	0.02
Cu	63	1	No Gas	45874	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	510711	1.22	502306	101.67	70	120	
Ge	72	2	He	384103	2.48	381710	100.63	70	120	
Ge	72	1	No Gas	1686777	1.59	1672653	100.84	70	120	

Calibration Standard Report

In	115	1	No Gas	1838690	1.82	1872489	98.19	70	120	
Bi	209	1	No Gas	1486751	2.70	1449392	102.58	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:12:37-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	21128	0.01
V	51	2	He	42534	0.00
Cr	52	2	He	50952	0.00
Fe	56	2	He	3771745	0.00
Se	78	2	He	666	0.64
As	75	2	He	6295	0.01
Ca	44	2	He	27147	0.01
Na	23	2	He	771563	0.00
Mg	24	2	He	448820	0.00
K	39	2	He	652174	0.00
Mn	55	2	He	33775	0.00
Co	59	2	He	63421	0.00
Ni	60	2	He	15930	0.02
Cu	63	2	He	39919	0.01
Zn	66	2	He	8016	0.02
Al	27	2	He	3087	0.21
B	11	1	No Gas	74867	0.00
Al	27	1	No Gas	129876	0.00
Si	28	1	No Gas	591176	0.00
Ag	107	1	No Gas	116559	0.00
Cd	111	1	No Gas	22318	0.02
Sr	88	1	No Gas	247397	0.00
Mo	95	1	No Gas	48238	0.01
Sn	118	1	No Gas	70168	0.00
Sb	121	1	No Gas	102308	0.00
Ba	137	1	No Gas	38237	0.01
Tl	205	1	No Gas	184589	0.00
Tl	203	1	No Gas	77953	0.00
Pb	208	1	No Gas	253859	0.00
U	238	1	No Gas	238189	0.00
Ca	43	2	He	1637	0.71
Sb	121	2	He	34412	0.01
Cu	63	1	No Gas	90152	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	509134	1.64	502306	101.36	70	120	
Ge	72	2	He	383258	0.88	381710	100.41	70	120	
Ge	72	1	No Gas	1666188	0.62	1672653	99.61	70	120	

Calibration Standard Report

In	115	1	No Gas	1887107	1.61	1872489	100.78	70	120	
Bi	209	1	No Gas	1481242	2.54	1449392	102.20	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:14:34-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	214496	0.00
V	51	2	He	403676	0.00
Cr	52	2	He	457305	0.00
Fe	56	2	He	37283651	0.00
Se	78	2	He	5573	0.08
As	75	2	He	62457	0.00
Ca	44	2	He	272864	0.00
Na	23	2	He	7105919	0.00
Mg	24	2	He	4230978	0.00
K	39	2	He	5444927	0.00
Mn	55	2	He	316374	0.00
Co	59	2	He	621192	0.00
Ni	60	2	He	165216	0.00
Cu	63	2	He	392078	0.00
Zn	66	2	He	74907	0.00
Al	27	2	He	26309	0.01
B	11	1	No Gas	682388	0.00
Al	27	1	No Gas	1107173	0.00
Si	28	1	No Gas	3152293	0.00
Ag	107	1	No Gas	1135667	0.00
Cd	111	1	No Gas	221615	0.00
Sr	88	1	No Gas	2438915	0.00
Mo	95	1	No Gas	488242	0.00
Sn	118	1	No Gas	701433	0.00
Sb	121	1	No Gas	1021054	0.00
Ba	137	1	No Gas	381606	0.00
Tl	205	1	No Gas	1753958	0.00
Tl	203	1	No Gas	741646	0.00
Pb	208	1	No Gas	2486454	0.00
U	238	1	No Gas	2409375	0.00
Ca	43	2	He	16063	0.03
Sb	121	2	He	358191	0.00
Cu	63	1	No Gas	886839	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	498327	0.53	502306	99.21	70	120	
Ge	72	2	He	379444	0.94	381710	99.41	70	120	
Ge	72	1	No Gas	1677637	2.65	1672653	100.30	70	120	

Calibration Standard Report

In	115	1	No Gas	1829336	1.27	1872489	97.70	70	120	
Bi	209	1	No Gas	1438261	1.83	1449392	99.23	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	020CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:16:28-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	410948	0.00
V	51	2	He	784555	0.00
Cr	52	2	He	876551	0.00
Fe	56	2	He	70292454	0.00
Se	78	2	He	10720	0.01
As	75	2	He	117805	0.00
Ca	44	2	He	516761	0.00
Na	23	2	He	13526133	0.00
Mg	24	2	He	7922622	0.00
K	39	2	He	10427488	0.00
Mn	55	2	He	609672	0.00
Co	59	2	He	1186103	0.00
Ni	60	2	He	294319	0.00
Cu	63	2	He	744678	0.00
Zn	66	2	He	141803	0.00
Al	27	2	He	51318	0.00
B	11	1	No Gas	1287831	0.00
Al	27	1	No Gas	2068737	0.00
Si	28	1	No Gas	5767207	0.00
Ag	107	1	No Gas	2241233	0.00
Cd	111	1	No Gas	431836	0.00
Sr	88	1	No Gas	4560699	0.00
Mo	95	1	No Gas	947240	0.00
Sn	118	1	No Gas	1356844	0.00
Sb	121	1	No Gas	2014435	0.00
Ba	137	1	No Gas	736990	0.00
Tl	205	1	No Gas	3406932	0.00
Tl	203	1	No Gas	1410614	0.00
Pb	208	1	No Gas	4786375	0.00
U	238	1	No Gas	4648517	0.00
Ca	43	2	He	30772	0.00
Sb	121	2	He	689346	0.00
Cu	63	1	No Gas	1671721	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	486977	1.69	502306	96.95	70	120	
Ge	72	2	He	373603	1.03	381710	97.88	70	120	
Ge	72	1	No Gas	1650291	1.62	1672653	98.66	70	120	

Calibration Standard Report

In	115	1	No Gas	1810935	2.28	1872489	96.71	70	120	
Bi	209	1	No Gas	1426252	1.71	1449392	98.40	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	022_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:20:33-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	98.984	1.738	709987	0.58	100	99.0	90	110	
Be	9	1	No Gas	100.196	1.431	216838	0.68	100	100.2	90	110	
V	51	2	He	99.370	1.063	400382	0.11	100	99.4	90	110	
Cr	52	2	He	99.432	1.954	450071	1.99	100	99.4	90	110	
Fe	56	2	He	10100.598	2.143	36615846	2.59	10000	101.0	90	110	
Se	78	2	He	100.717	2.045	5576	1.63	100	100.7	90	110	
As	75	2	He	104.348	0.050	63420	1.17	100	104.3	90	110	
Ca	44	2	He	10163.826	1.362	270681	0.92	10000	101.6	90	110	
Na	23	2	He	10025.419	1.353	7002111	1.59	10000	100.3	90	110	
Mg	24	2	He	9988.796	0.961	4086584	0.25	10000	99.9	90	110	
K	39	2	He	9965.341	1.672	5377543	1.00	10000	99.7	90	110	
Mn	55	2	He	99.628	1.604	312523	2.12	100	99.6	90	110	
Co	59	2	He	100.186	1.071	611193	0.29	100	100.2	90	110	
Ni	60	2	He	100.624	0.789	154588	0.40	100	100.6	90	110	
Cu	63	2	He	100.845	0.751	386864	1.92	100	100.8	90	110	
Zn	66	2	He	102.028	0.346	74698	1.20	100	102.0	90	110	
Al	27	2	He	101.150	0.818	26800	1.95	100	101.1	90	110	
B	11	1	No Gas	494.553	1.337	676124	0.41	500	98.9	90	110	
Al	27	1	No Gas	107.415	3.339	1148889	1.80	100	107.4	90	110	
Si	28	1	No Gas	528.673	3.177	3255377	1.30	500	105.7	90	110	
Ag	107	1	No Gas	98.915	1.263	1129315	0.90	100	98.9	90	110	
Cd	111	1	No Gas	102.199	1.337	225419	1.09	100	102.2	90	110	
Sr	88	1	No Gas	102.936	1.965	2418642	1.67	100	102.9	90	110	
Mo	95	1	No Gas	96.219	2.197	466011	2.11	100	96.2	90	110	
Sn	118	1	No Gas	102.149	0.769	709059	0.39	100	102.1	90	110	
Sb	121	1	No Gas	99.945	2.459	1022767	0.98	100	99.9	90	110	
Ba	137	1	No Gas	100.512	1.605	379112	1.41	100	100.5	90	110	
Tl	205	1	No Gas	102.296	3.124	1837649	2.75	100	102.3	90	110	
Tl	203	1	No Gas	102.883	1.710	768584	1.22	100	102.9	90	110	
Pb	208	1	No Gas	99.959	1.251	2526849	0.85	100	100.0	90	110	
U	238	1	No Gas	97.296	1.196	2387252	0.72	100	97.3	90	110	
Ca	43	2	He	10121.078	2.713	16020	2.49	10000	101.2	90	110	
Sb	121	2	He	99.398	1.428	351708	0.67	100	99.4	90	110	
Ti	47	2	He	106.305	4.781	15793	3.77	100	106.3	90	110	
Cu	63	1	No Gas	104.390	1.370	895564	0.50	100	104.4	90	110	
Se	82	1	No Gas	101.262	3.367	16646	2.08	100	101.3	90	110	

QC ISTD Table

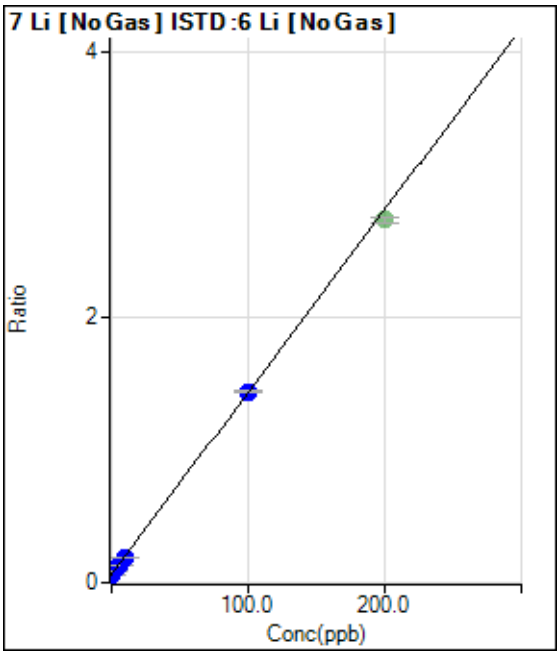
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	510785	1.14	502306	101.69	70	120	
Ge	72	2	He	381813	1.17	381710	100.03	70	120	
Ge	72	1	No Gas	1677662	1.64	1672653	100.30	70	120	
In	115	1	No Gas	1843461	0.38	1872489	98.45	70	120	
Bi	209	1	No Gas	1497065	0.49	1449392	103.29	70	120	

Calibration for 022_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\082923A.b\
Analysis File: 082923A.batch.bin
DA Date-Time: 8/29/2023 11:05:50 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	015CALB.d	CAL BLK	8/29/2023 11:06:46 AM
2	016CALS.d	2/10/200	8/29/2023 11:08:43 AM
3	017CALS.d	5/25/500	8/29/2023 11:10:41 AM
4	018CALS.d	10/50/100	8/29/2023 11:12:37 AM
5	019CALS.d	100/500/10K	8/29/2023 11:14:34 AM
6	020CALS.d	200/1000/20K	8/29/2023 11:16:28 AM

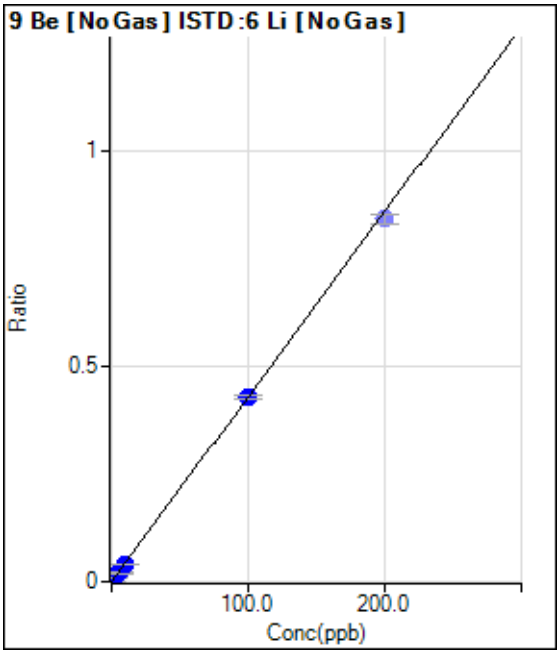
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31398.34	0.0625	P	1.0
2	☐	2.000	1.813	44304.41	0.0874	P	1.0
3	☐	5.000	4.751	65176.98	0.1276	P	1.5
4	☐	10.000	9.462	97849.57	0.1922	P	1.9
5	☐	100.000	100.070	714789.39	1.4344	P	0.8
6	☑	200.000		1329383.37	2.7301	A	1.7

y = 0.0137 * x + 0.0625
R = 1.0000
DL = 0.1349
BEC = 4.559

Weight: <None>
Min Conc: <None>

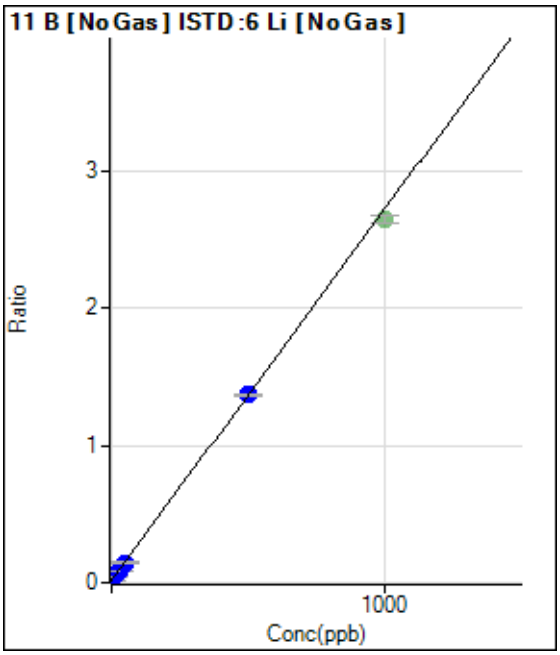


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.33	0.0001	P	53.7
2	☐	2.000	1.986	4360.72	0.0086	P	0.9
3	☐	5.000	4.762	10485.64	0.0205	P	4.5
4	☐	10.000	9.638	21127.63	0.0415	P	3.6
5	☐	100.000	100.048	214496.21	0.4304	P	1.8
6	☑	200.000		410947.69	0.8441	P	2.9

y = 0.0043 * x + 5.6294E-005
R = 1.0000
DL = 0.02108
BEC = 0.01309

Weight: <None>
Min Conc: <None>

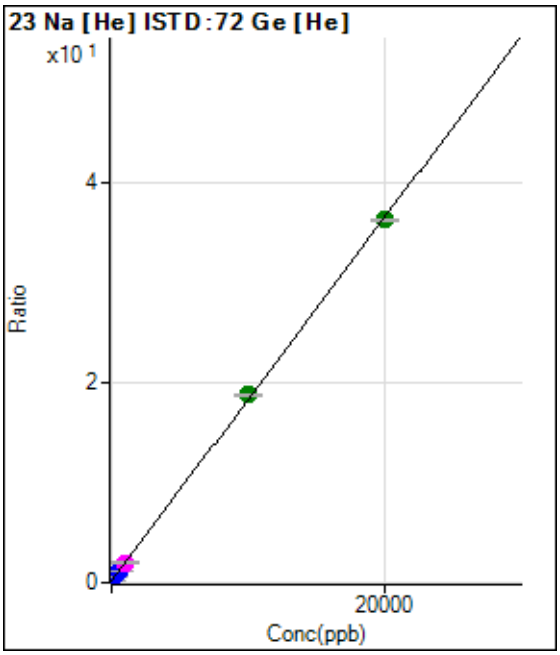
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7943.98	0.0158	P	2.4
2	☐	10.000	9.657	21272.87	0.0419	P	2.4
3	☐	25.000	23.832	41003.21	0.0803	P	3.2
4	☐	50.000	48.509	74866.96	0.1471	P	2.3
5	☐	500.000	500.214	682387.86	1.3694	P	0.8
6	☑	1000.000		1287830.66	2.6452	A	2.1

y = 0.0027 * x + 0.0158
R = 1.0000
DL = 0.4162
BEC = 5.845

Weight: <None>
Min Conc: <None>

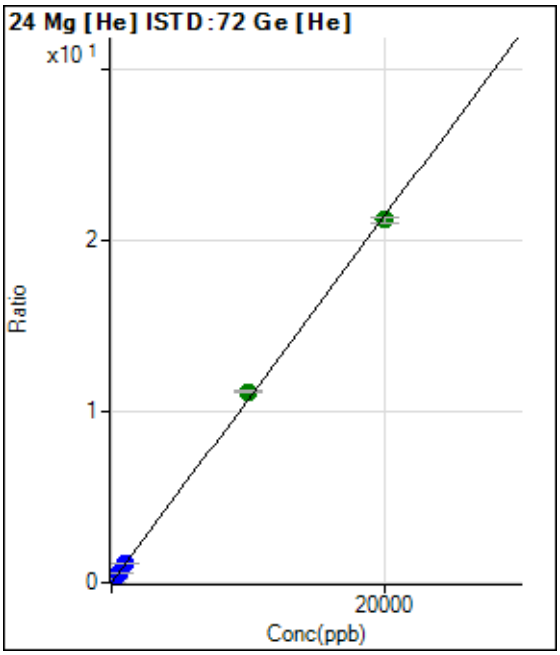


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61723.16	0.1617	P	3.0
2	☐	200.000	215.341	209580.95	0.5522	P	0.4
3	☐	500.000	536.342	435468.18	1.1342	P	2.7
4	☐	1000.000	1021.343	771562.62	2.0136	M	4.4
5	☐	10000.000	10239.131	7105918.65	18.7270	A	0.5
6	☐	20000.000	19878.305	13526132.72	36.2045	A	0.6

y = 0.0018 * x + 0.1617
R = 0.9999
DL = 8.059
BEC = 89.2

Weight: <None>
Min Conc: <None>

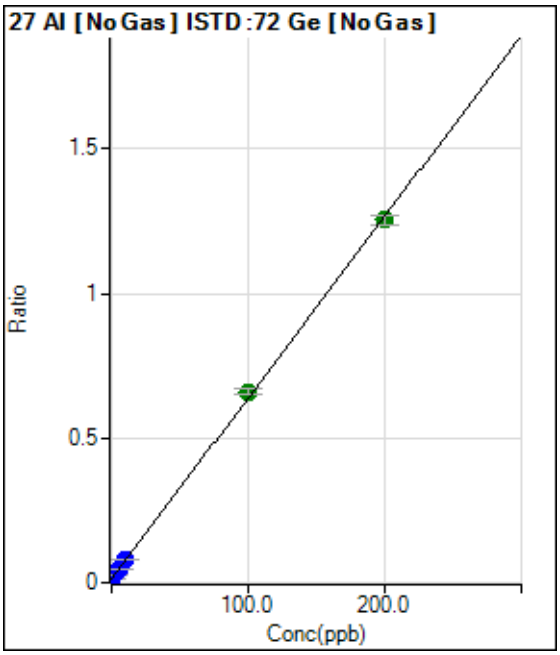
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	513.35	0.0013	P	23.2
2	☐	200.000	215.085	87980.01	0.2318	P	0.6
3	☐	500.000	533.969	220212.21	0.5735	P	1.7
4	☐	1000.000	1091.744	448820.41	1.1711	P	0.8
5	☐	10000.000	10406.493	4230977.65	11.1514	A	1.4
6	☐	20000.000	19791.166	7922621.55	21.2067	A	1.3

y = 0.0011 * x + 0.0013
R = 0.9997
DL = 0.8738
BEC = 1.254

Weight: <None>
Min Conc: <None>

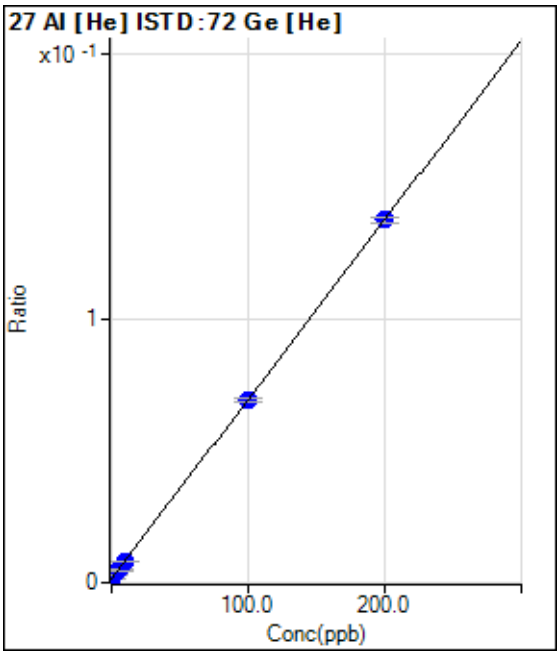


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20795.87	0.0124	P	4.1
2	☐	2.000	2.393	46150.35	0.0274	P	2.5
3	☐	5.000	5.162	75494.66	0.0448	P	1.3
4	☐	10.000	10.462	129876.01	0.0779	P	0.3
5	☐	100.000	103.428	1107173.08	0.6601	A	2.7
6	☐	200.000	198.255	2068737.16	1.2539	A	2.4

y = 0.0063 * x + 0.0124
R = 0.9998
DL = 0.2462
BEC = 1.986

Weight: <None>
Min Conc: <None>

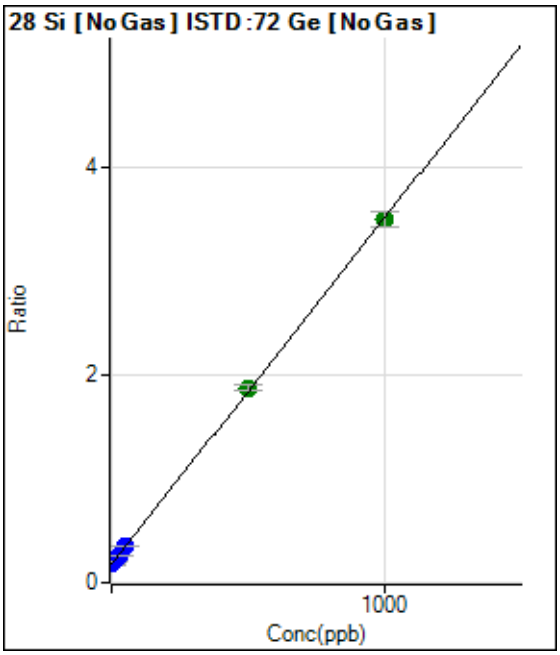
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	566.69	0.0015	P	10.4
2	☐	2.000	2.064	1096.73	0.0029	P	7.1
3	☐	5.000	4.923	1850.16	0.0048	P	16.4
4	☐	10.000	9.675	3087.07	0.0081	P	7.1
5	☐	100.000	99.886	26308.50	0.0693	P	1.8
6	☐	200.000	200.075	51318.30	0.1374	P	1.9

y = 6.7919E-004 * x + 0.0015
R = 1.0000
DL = 0.6845
BEC = 2.188

Weight: <None>
Min Conc: <None>

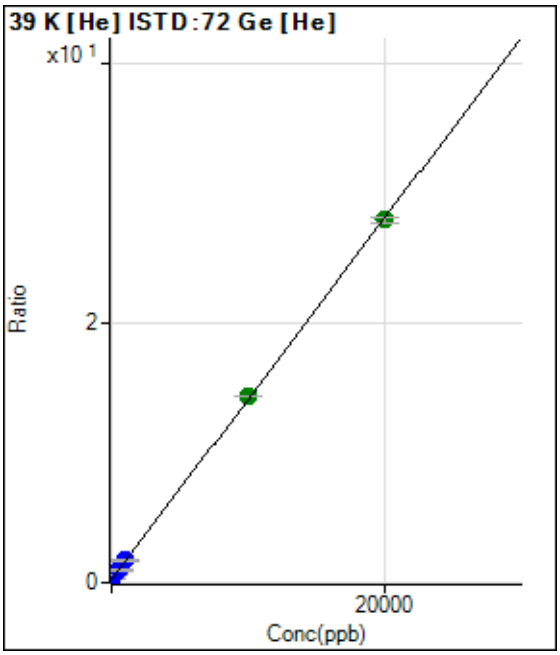


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	296202.39	0.1771	P	2.5
2	☐	10.000	9.921	353771.39	0.2102	P	0.3
3	☐	25.000	25.821	444047.93	0.2633	P	1.3
4	☐	50.000	53.255	591175.81	0.3548	P	0.8
5	☐	500.000	510.394	3152292.87	1.8800	A	3.1
6	☐	1000.000	994.621	5767206.79	3.4956	A	4.4

y = 0.0033 * x + 0.1771
R = 0.9999
DL = 3.915
BEC = 53.09

Weight: <None>
Min Conc: <None>

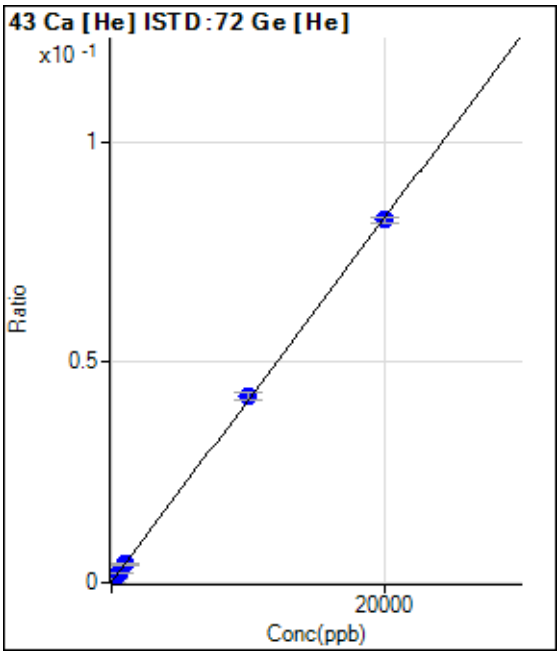
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	92810.18	0.2432	P	1.8
2	☐	200.000	207.757	201836.44	0.5318	P	0.5
3	☐	500.000	519.536	370445.10	0.9649	P	2.9
4	☐	1000.000	1050.056	652173.82	1.7018	P	1.8
5	☐	10000.000	10155.504	5444927.00	14.3498	A	1.0
6	☐	20000.000	19919.179	10427487.55	27.9122	A	1.5

y = 0.0014 * x + 0.2432
R = 1.0000
DL = 9.586
BEC = 175.1

Weight: <None>
Min Conc: <None>

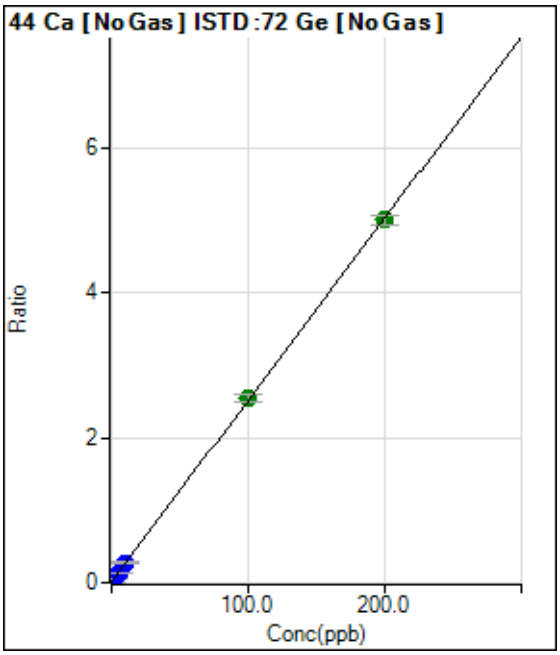


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	92.8
2	☐	200.000	200.121	356.68	0.0009	P	14.1
3	☐	500.000	516.989	863.38	0.0023	P	12.5
4	☐	1000.000	1006.355	1636.80	0.0043	P	12.3
5	☐	10000.000	10208.885	16062.98	0.0423	P	3.8
6	☐	20000.000	19894.814	30771.55	0.0824	P	1.7

y = 4.1347E-006 * x + 1.1256E-004
R = 0.9999
DL = 75.81
BEC = 27.22

Weight: <None>
Min Conc: <None>

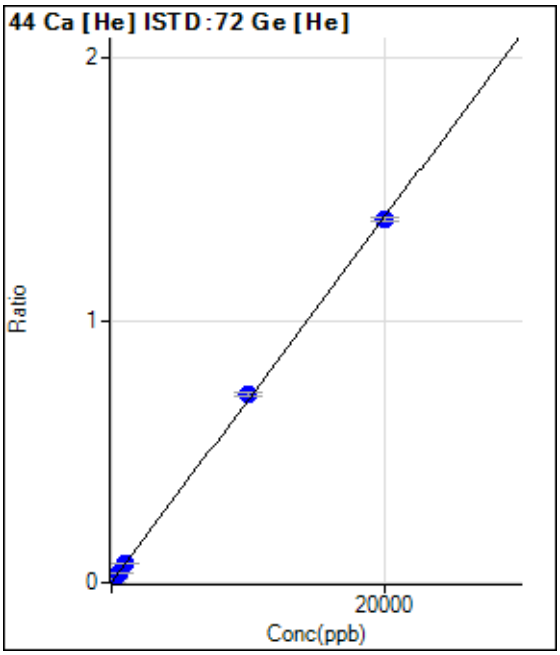
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20755.93	0.0124	P	1.3
2	☐	2.000	2.091	108992.80	0.0648	P	1.5
3	☐	5.000	5.198	240479.23	0.1426	P	2.2
4	☐	10.000	10.619	463803.91	0.2784	P	1.3
5	☐	100.000	101.306	4275016.71	2.5497	A	3.5
6	☐	200.000	199.310	8256016.34	5.0042	A	2.8

y = 0.0250 * x + 0.0124
R = 1.0000
DL = 0.0195
BEC = 0.4954

Weight: <None>
Min Conc: <None>

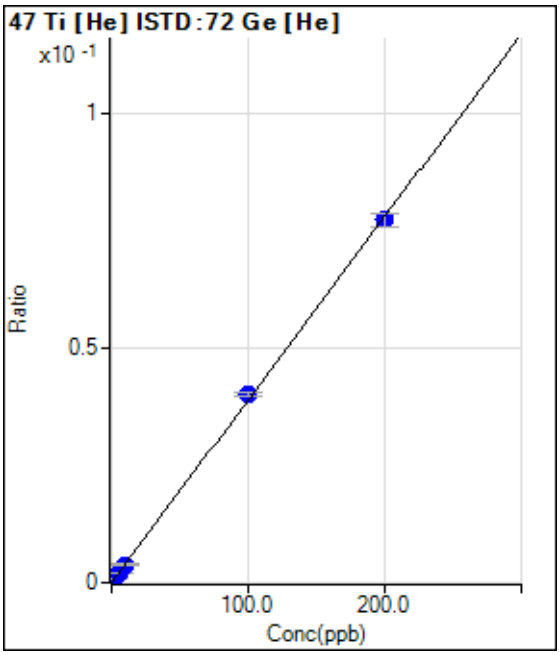


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	406.68	0.0011	P	13.1
2	☐	200.000	209.299	5938.07	0.0156	P	4.7
3	☐	500.000	502.421	13837.16	0.0361	P	6.3
4	☐	1000.000	1001.757	27147.19	0.0708	P	2.6
5	☐	10000.000	10310.349	272863.86	0.7192	P	1.9
6	☐	20000.000	19844.584	516761.24	1.3833	P	1.1

y = 6.9652E-005 * x + 0.0011
R = 0.9998
DL = 5.994
BEC = 15.3

Weight: <None>
Min Conc: <None>

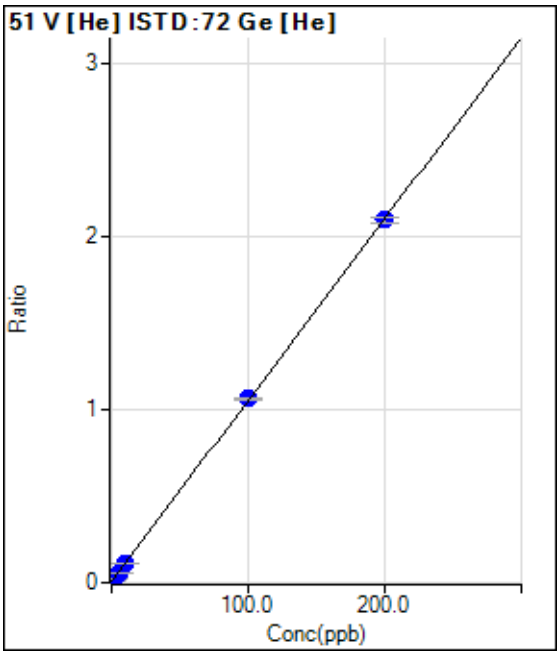
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	2.000	1.758	260.01	0.0007	P	19.0
3	☐	5.000	4.977	743.36	0.0019	P	7.7
4	☐	10.000	9.680	1443.44	0.0038	P	8.3
5	☐	100.000	103.211	15242.02	0.0402	P	1.7
6	☐	200.000	198.413	28847.29	0.0772	P	4.0

y = 3.8922E-004 * x + 0.0000E+000
R = 0.9998
DL = 0
BEC = 0

Weight: <None>
Min Conc: <None>

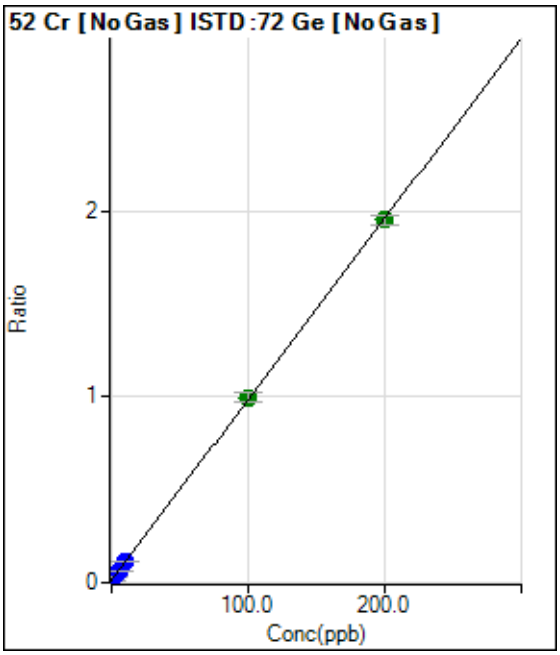


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2382.44	0.0062	P	5.1
2	☐	2.000	1.993	10303.92	0.0271	P	2.2
3	☐	5.000	4.803	21741.72	0.0566	P	2.6
4	☐	10.000	9.984	42533.56	0.1110	P	0.8
5	☐	100.000	100.818	403675.85	1.0639	P	0.7
6	☐	200.000	199.597	784554.95	2.1002	P	1.5

y = 0.0105 * x + 0.0062
R = 1.0000
DL = 0.09077
BEC = 0.5947

Weight: <None>
Min Conc: <None>

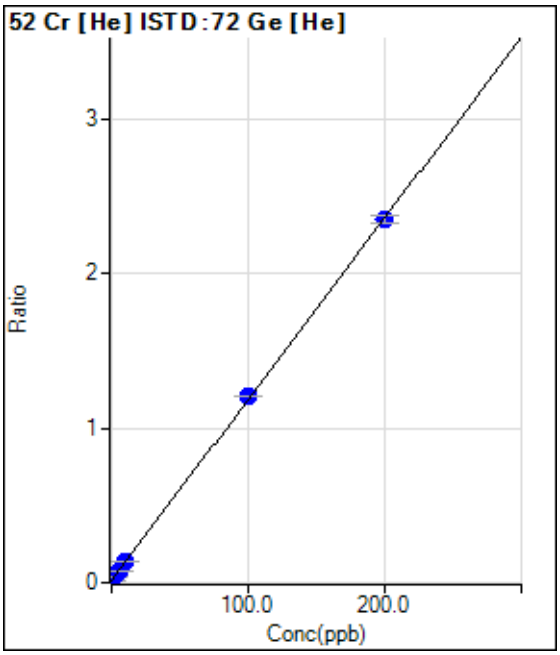
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23810.91	0.0142	P	0.9
2	☐	2.000	1.953	55887.79	0.0332	P	0.7
3	☐	5.000	5.059	106925.67	0.0634	P	2.4
4	☐	10.000	10.101	187278.43	0.1124	P	1.1
5	☐	100.000	101.198	1672511.69	0.9977	A	4.5
6	☐	200.000	199.395	3220672.76	1.9521	A	2.4

y = 0.0097 * x + 0.0142
R = 1.0000
DL = 0.03803
BEC = 1.465

Weight: <None>
Min Conc: <None>

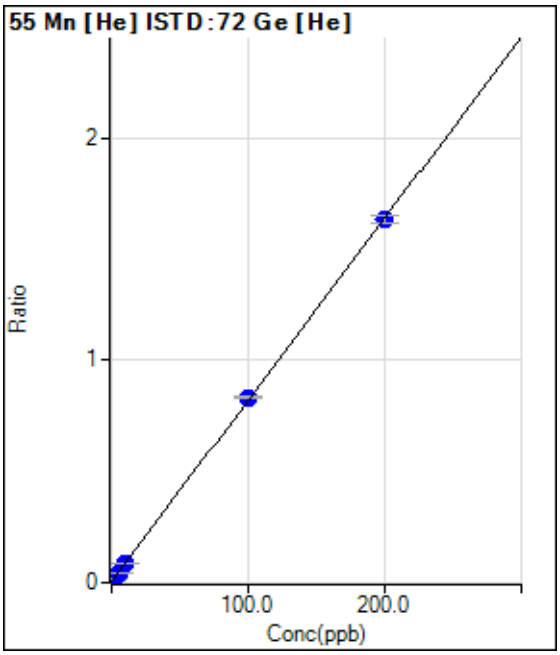


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5514.55	0.0144	P	4.6
2	☐	2.000	2.149	15035.13	0.0396	P	0.8
3	☐	5.000	4.933	27725.15	0.0722	P	3.4
4	☐	10.000	10.119	50951.65	0.1329	P	1.4
5	☐	100.000	101.686	457304.78	1.2052	P	0.3
6	☐	200.000	199.151	876550.59	2.3466	P	2.2

y = 0.0117 * x + 0.0144
R = 0.9999
DL = 0.1703
BEC = 1.233

Weight: <None>
Min Conc: <None>

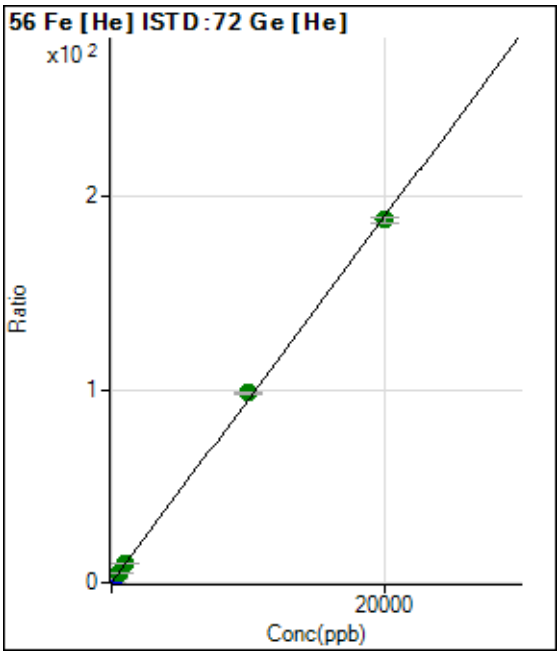
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1846.83	0.0048	P	8.3
2	☐	2.000	1.994	8015.84	0.0211	P	5.3
3	☐	5.000	4.823	16984.12	0.0442	P	2.2
4	☐	10.000	10.198	33775.41	0.0881	P	0.1
5	☐	100.000	101.497	316373.85	0.8338	P	0.5
6	☐	200.000	199.246	609671.83	1.6321	P	2.0

y = 0.0082 * x + 0.0048
R = 1.0000
DL = 0.1477
BEC = 0.5926

Weight: <None>
Min Conc: <None>

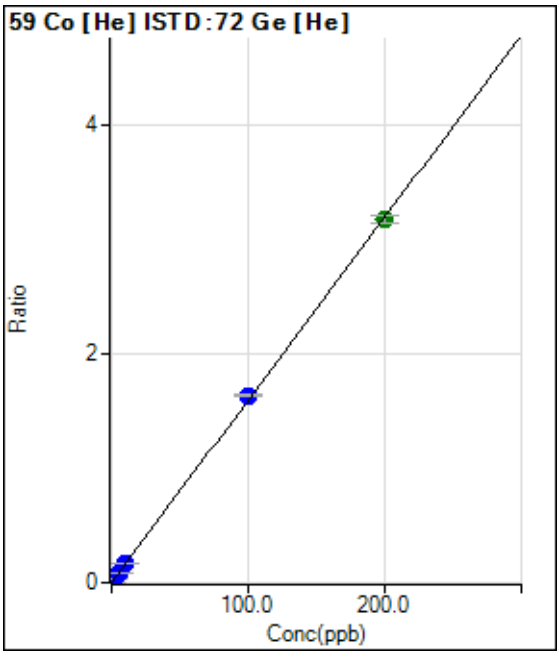


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15472.47	0.0405	P	1.6
2	☐	200.000	208.709	767193.95	2.0212	P	1.2
3	☐	500.000	523.449	1923565.02	5.0082	A	2.9
4	☐	1000.000	1032.761	3771745.05	9.8417	A	1.7
5	☐	10000.000	10349.118	37283651.11	98.2562	A	0.4
6	☐	20000.000	19823.130	70292453.95	188.1670	A	1.5

y = 0.0095 * x + 0.0405
R = 0.9998
DL = 0.2024
BEC = 4.271

Weight: <None>
Min Conc: <None>

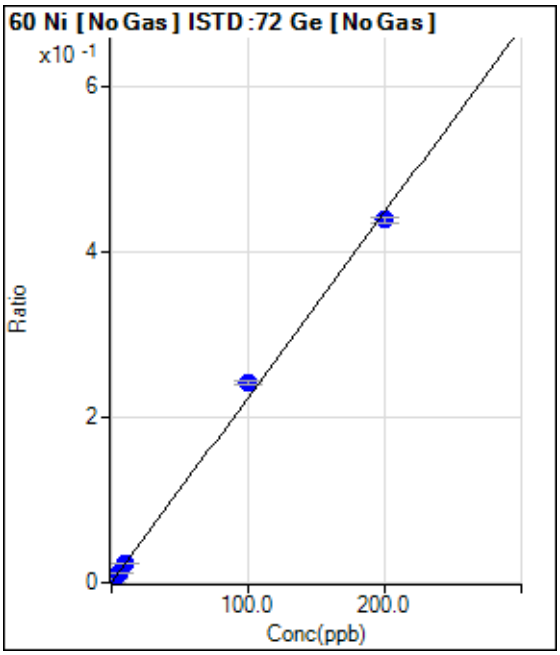
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.34	0.0009	P	14.4
2	☐	2.000	2.015	12545.95	0.0331	P	3.8
3	☐	5.000	5.019	31116.01	0.0810	P	1.1
4	☐	10.000	10.307	63421.04	0.1655	P	1.5
5	☐	100.000	102.450	621191.84	1.6370	P	0.7
6	☐	200.000	198.759	1186103.26	3.1751	A	2.0

y = 0.0160 * x + 8.7395E-004
R = 0.9999
DL = 0.02358
BEC = 0.05472

Weight: <None>
Min Conc: <None>

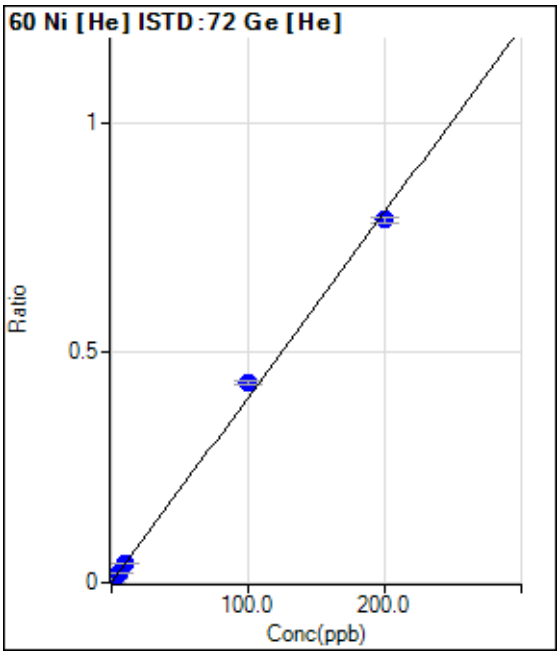


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	336.68	0.0002	P	1.4
2	☐	2.000	2.078	8169.24	0.0049	P	1.8
3	☐	5.000	5.070	19490.92	0.0116	P	1.2
4	☐	10.000	10.557	39728.22	0.0238	P	1.1
5	☐	100.000	108.079	406256.71	0.2423	P	2.7
6	☐	200.000	195.930	724402.02	0.4390	P	1.7

y = 0.0022 * x + 2.0132E-004
R = 0.9988
DL = 0.003787
BEC = 0.08989

Weight: <None>
Min Conc: <None>

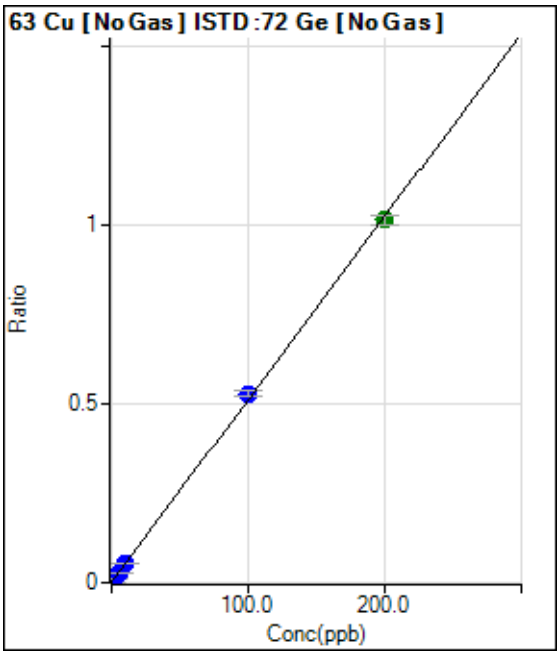
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0004	P	29.2
2	☐	2.000	1.979	3160.41	0.0083	P	2.7
3	☐	5.000	5.170	8125.92	0.0212	P	2.5
4	☐	10.000	10.249	15929.61	0.0416	P	3.4
5	☐	100.000	108.201	165216.18	0.4354	P	2.1
6	☐	200.000	195.883	294319.40	0.7879	P	1.6

y = 0.0040 * x + 3.6740E-004
R = 0.9988
DL = 0.07999
BEC = 0.09139

Weight: <None>
Min Conc: <None>

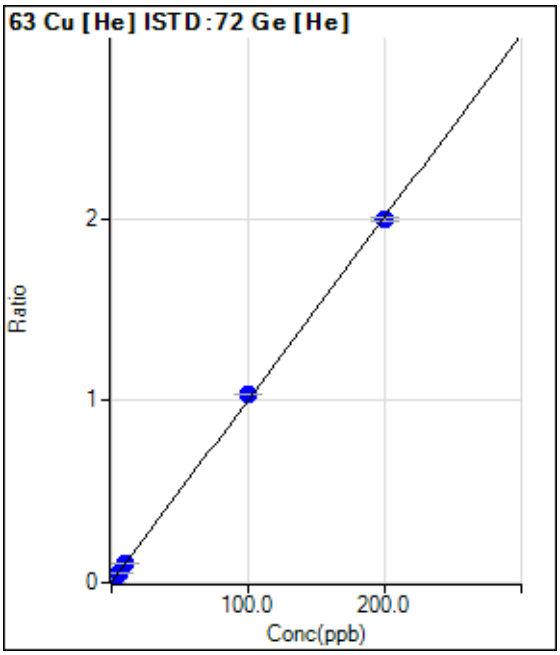


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1433.43	0.0009	P	0.7
2	☐	2.000	2.038	18956.78	0.0113	P	1.9
3	☐	5.000	5.159	45874.31	0.0272	P	2.3
4	☐	10.000	10.429	90151.51	0.0541	P	2.3
5	☐	100.000	103.411	886838.66	0.5289	P	2.9
6	☐	200.000	198.269	1671720.86	1.0133	A	2.5

y = 0.0051 * x + 8.5704E-004
R = 0.9998
DL = 0.003447
BEC = 0.1678

Weight: <None>
Min Conc: <None>

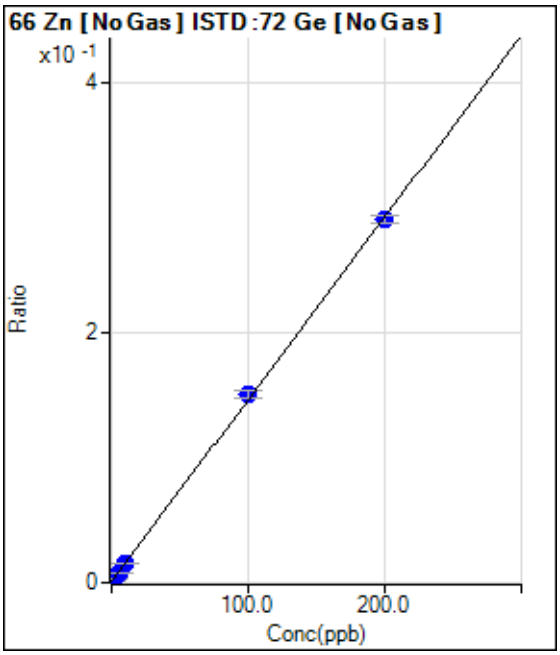
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	593.36	0.0016	P	7.8
2	☐	2.000	2.096	8572.84	0.0226	P	3.5
3	☐	5.000	5.081	20168.51	0.0525	P	2.7
4	☐	10.000	10.228	39918.94	0.1042	P	2.3
5	☐	100.000	102.851	392077.82	1.0333	P	0.6
6	☐	200.000	198.560	744678.12	1.9934	P	1.2

y = 0.0100 * x + 0.0016
R = 0.9999
DL = 0.03631
BEC = 0.1551

Weight: <None>
Min Conc: <None>

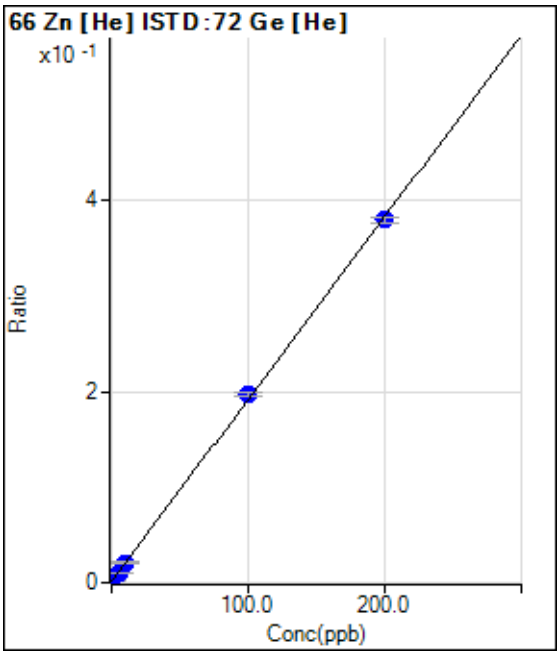


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1340.10	0.0008	P	3.4
2	☐	2.000	2.084	6464.99	0.0038	P	3.3
3	☐	5.000	4.905	13423.58	0.0080	P	2.7
4	☐	10.000	9.866	25313.84	0.0152	P	2.4
5	☐	100.000	102.679	252458.28	0.1506	P	3.9
6	☐	200.000	198.669	479503.51	0.2906	P	2.0

y = 0.0015 * x + 8.0133E-004
R = 0.9999
DL = 0.05528
BEC = 0.5493

Weight: <None>
Min Conc: <None>

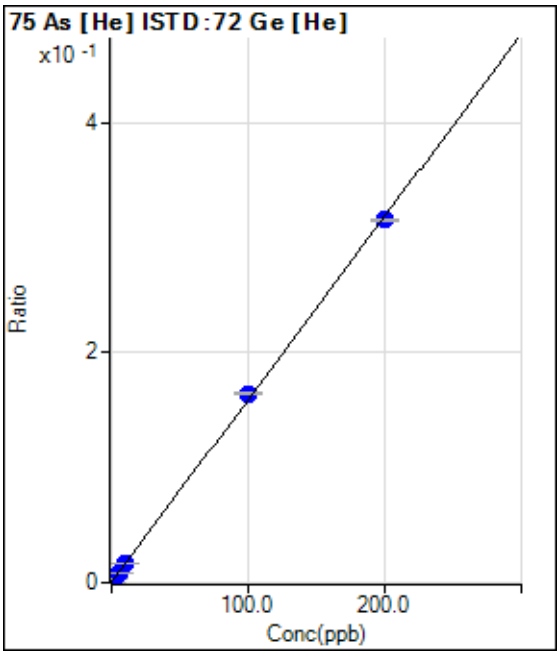
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	453.35	0.0012	P	22.8
2	☐	2.000	2.148	2006.85	0.0053	P	8.7
3	☐	5.000	4.815	3980.64	0.0104	P	3.0
4	☐	10.000	10.351	8015.84	0.0209	P	2.2
5	☐	100.000	102.966	74907.15	0.1974	P	1.6
6	☐	200.000	198.502	141802.68	0.3795	P	1.9

y = 0.0019 * x + 0.0012
R = 0.9998
DL = 0.4272
BEC = 0.6245

Weight: <None>
Min Conc: <None>

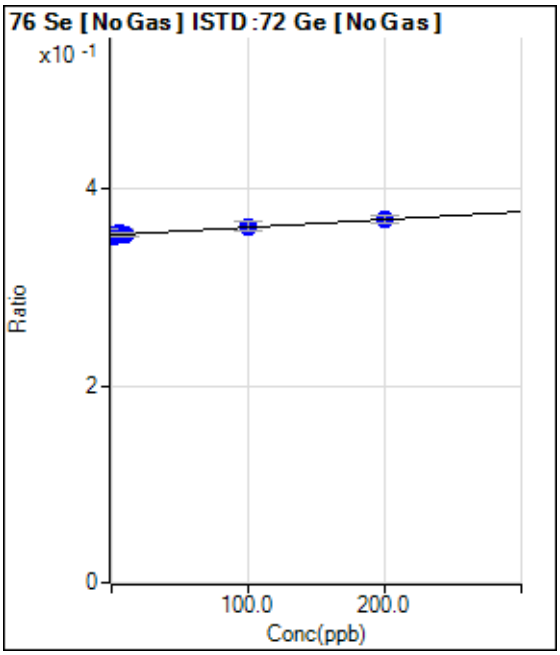


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0004	P	8.1
2	☐	2.000	1.922	1294.51	0.0034	P	2.7
3	☐	5.000	4.845	3090.37	0.0081	P	5.9
4	☐	10.000	10.116	6294.84	0.0164	P	1.7
5	☐	100.000	103.408	62457.16	0.1646	P	0.9
6	☐	200.000	198.295	117805.41	0.3153	P	0.4

y = 0.0016 * x + 3.5790E-004
R = 0.9998
DL = 0.05446
BEC = 0.2253

Weight: <None>
Min Conc: <None>

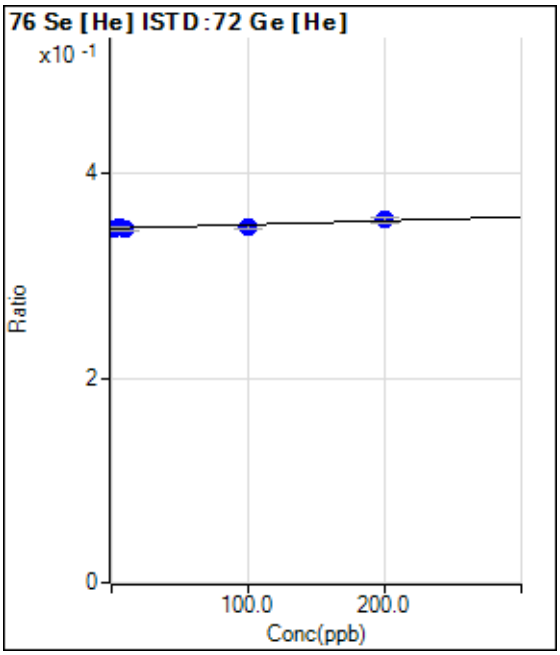
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	590430.42	0.3530	P	0.9
2	☐	2.000	-12.556	592397.88	0.3520	P	0.6
3	☐	5.000	38.698	600543.52	0.3561	P	1.9
4	☐	10.000	7.834	589249.60	0.3537	P	1.0
5	☐	100.000	109.738	606617.14	0.3617	P	2.5
6	☐	200.000	194.542	607910.41	0.3684	P	2.2

y = 7.9187E-005 * x + 0.3530
R = 0.9788
DL = 119.5
BEC = 4458

Weight: <None>
Min Conc: <None>

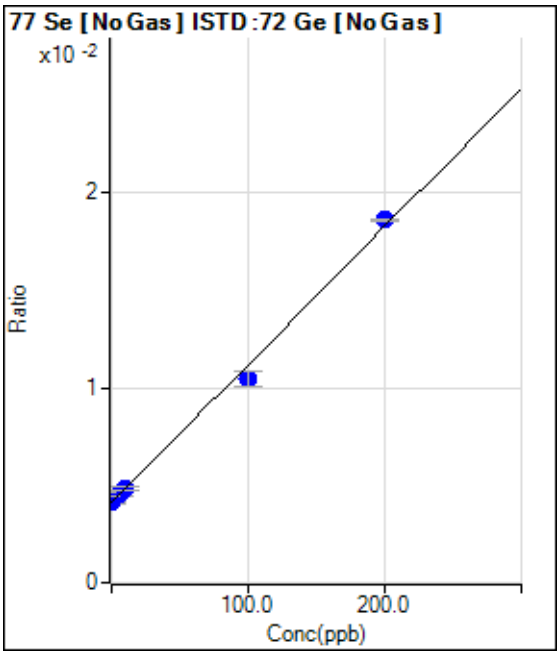


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	132281.93	0.3467	P	3.1
2	☐	2.000	-19.549	131281.57	0.3459	P	0.9
3	☐	5.000	22.197	133461.60	0.3475	P	0.7
4	☐	10.000	-16.696	132608.58	0.3460	P	1.2
5	☐	100.000	59.862	132382.12	0.3489	P	1.1
6	☐	200.000	221.189	132607.70	0.3550	P	1.8

y = 3.7662E-005 * x + 0.3467
R = 0.9646
DL = 862.6
BEC = 9204

Weight: <None>
Min Conc: <None>

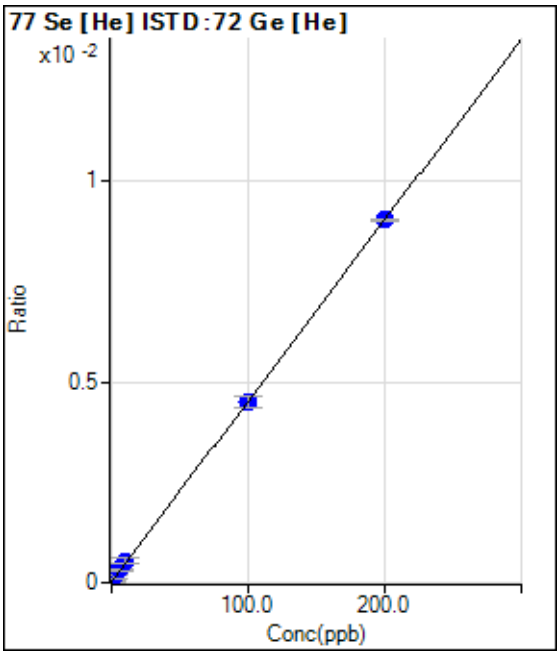
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6845.19	0.0041	P	2.2
2	☐	2.000	3.889	7348.80	0.0044	P	0.3
3	☐	5.000	6.388	7665.65	0.0045	P	5.9
4	☐	10.000	10.442	8049.23	0.0048	P	4.0
5	☐	100.000	90.336	17578.43	0.0105	P	7.6
6	☐	200.000	204.756	30691.99	0.0186	P	0.5

y = 7.0852E-005 * x + 0.0041
R = 0.9982
DL = 3.883
BEC = 57.75

Weight: <None>
Min Conc: <None>

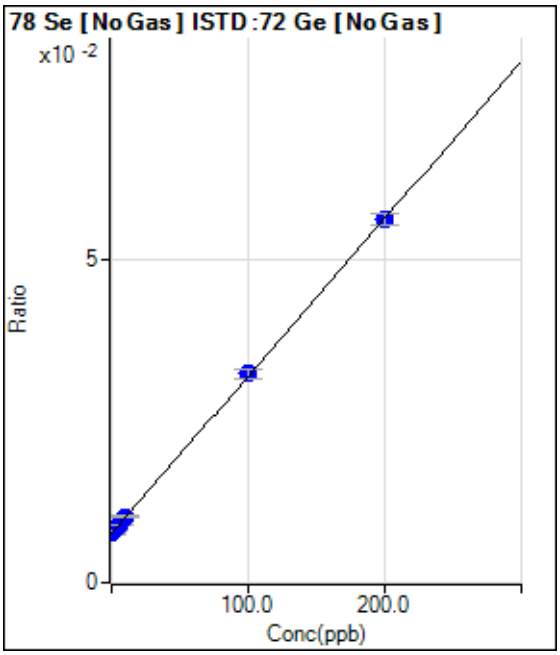


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	2.000	2.542	50.00	0.0001	P	60.0
3	☐	5.000	6.569	120.00	0.0003	P	23.7
4	☐	10.000	11.598	206.67	0.0005	P	29.7
5	☐	100.000	99.326	1703.47	0.0045	P	6.7
6	☐	200.000	200.212	3373.81	0.0090	P	0.2

y = 4.5016E-005 * x + 1.7599E-005
R = 1.0000
DL = 1.016
BEC = 0.3909

Weight: <None>
Min Conc: <None>

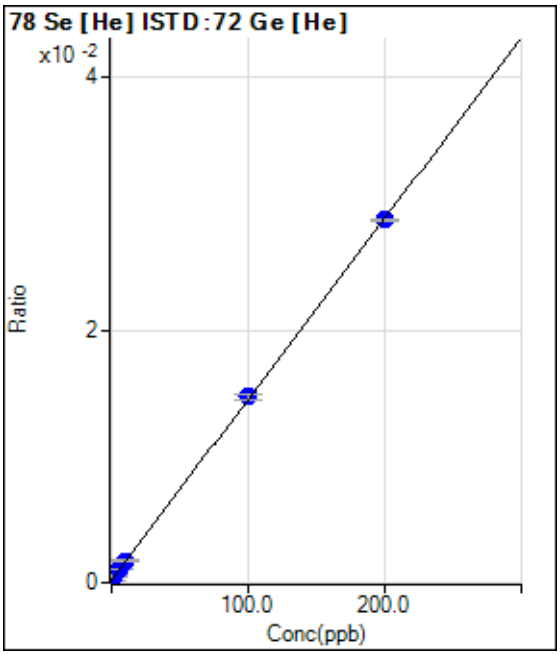
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12759.59	0.0076	P	4.6
2	☐	2.000	2.246	13763.98	0.0082	P	2.1
3	☐	5.000	5.609	15182.08	0.0090	P	1.5
4	☐	10.000	10.719	17074.35	0.0102	P	1.6
5	☐	100.000	101.441	54323.02	0.0324	P	4.2
6	☐	200.000	199.226	92842.46	0.0563	P	3.1

y = 2.4416E-004 * x + 0.0076
R = 1.0000
DL = 4.359
BEC = 31.25

Weight: <None>
Min Conc: <None>

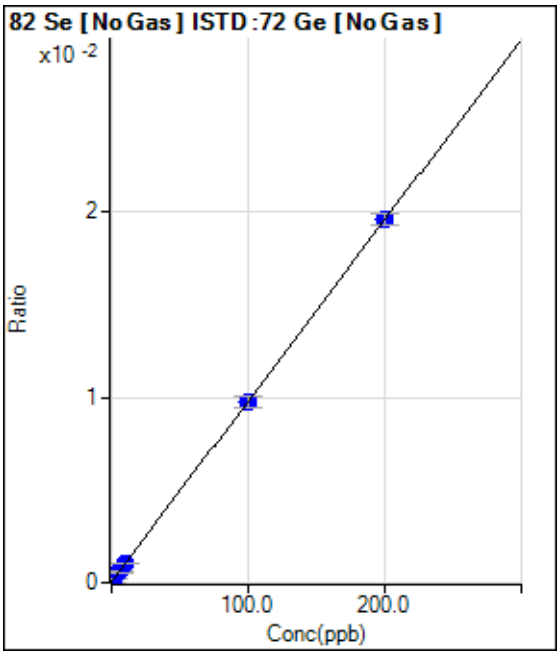


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.67	0.0002	P	15.4
2	☐	2.000	2.184	198.67	0.0005	P	12.3
3	☐	5.000	5.721	395.34	0.0010	P	4.0
4	☐	10.000	10.682	666.02	0.0017	P	3.8
5	☐	100.000	101.265	5572.51	0.0147	P	3.3
6	☐	200.000	199.314	10720.29	0.0287	P	0.9

y = 1.4291E-004 * x + 2.1103E-004
R = 1.0000
DL = 0.6828
BEC = 1.477

Weight: <None>
Min Conc: <None>

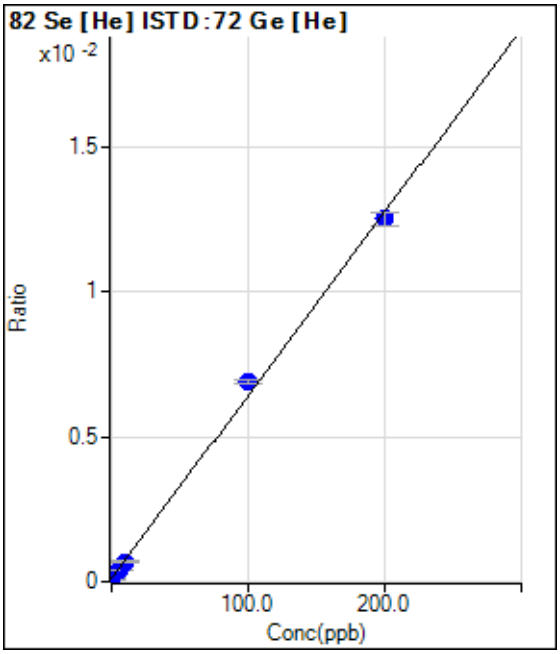
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.87	0.0000	P	13.4
2	☐	2.000	1.441	311.67	0.0002	P	16.0
3	☐	5.000	5.532	985.21	0.0006	P	12.8
4	☐	10.000	10.154	1725.31	0.0010	P	0.4
5	☐	100.000	99.494	16348.44	0.0098	P	5.9
6	☐	200.000	200.238	32307.67	0.0196	P	3.2

y = 9.7576E-005 * x + 4.4674E-005
R = 1.0000
DL = 0.184
BEC = 0.4578

Weight: <None>
Min Conc: <None>

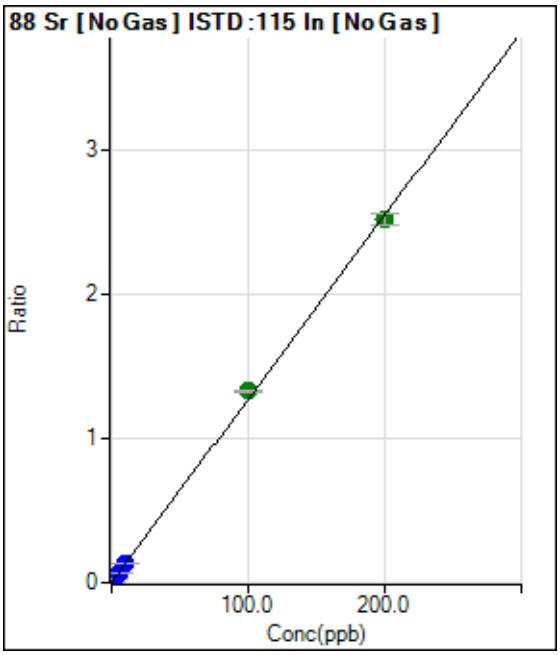


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	72.9
2	☐	2.000	2.801	110.00	0.0003	P	9.6
3	☐	5.000	4.382	150.00	0.0004	P	11.3
4	☐	10.000	9.214	266.68	0.0007	P	8.6
5	☐	100.000	107.278	2616.97	0.0069	P	1.7
6	☐	200.000	196.408	4684.24	0.0125	P	3.9

y = 6.3245E-005 * x + 1.1277E-004
R = 0.9990
DL = 3.897
BEC = 1.783

Weight: <None>
Min Conc: <None>

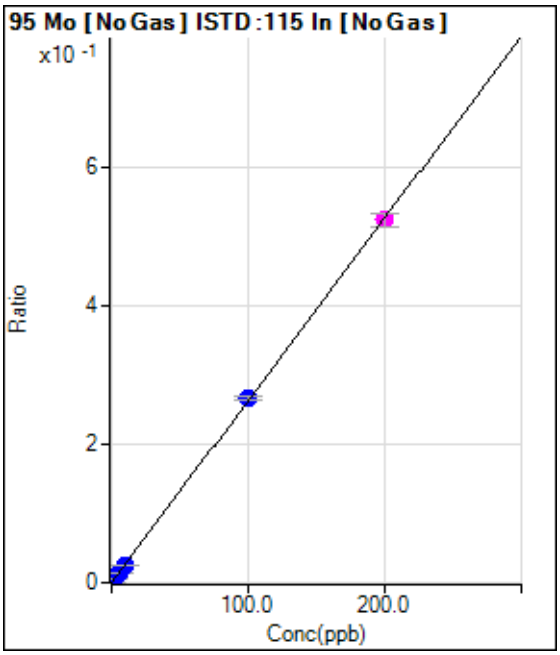
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	553.36	0.0003	P	8.4
2	☐	2.000	2.067	48655.63	0.0266	P	0.5
3	☐	5.000	5.251	123564.22	0.0672	P	2.1
4	☐	10.000	10.265	247397.27	0.1311	P	0.5
5	☐	100.000	104.604	2438915.49	1.3333	A	0.9
6	☐	200.000	197.678	4560698.58	2.5194	A	3.1

y = 0.0127 * x + 2.9579E-004
R = 0.9996
DL = 0.005856
BEC = 0.02321

Weight: <None>
Min Conc: <None>

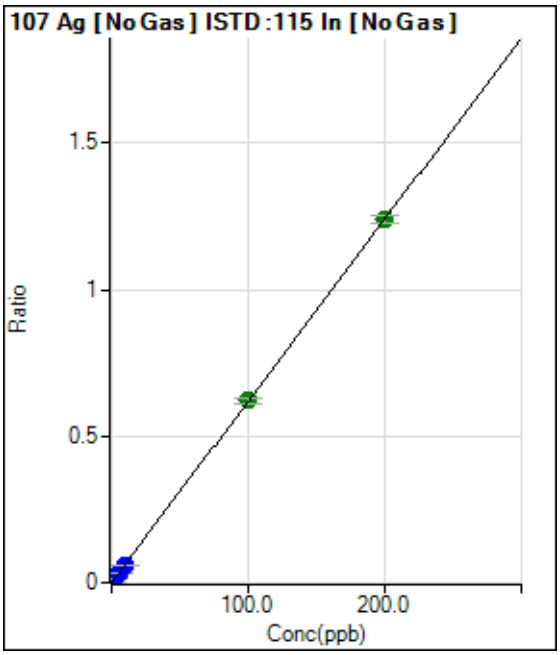


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.34	0.0001	P	28.8
2	☐	2.000	1.924	9356.75	0.0051	P	2.2
3	☐	5.000	4.933	23948.59	0.0130	P	2.1
4	☐	10.000	9.704	48237.92	0.0256	P	2.3
5	☐	100.000	101.603	488242.35	0.2669	P	2.3
6	☐	200.000	199.216	947239.85	0.5233	M	3.4

y = 0.0026 * x + 7.0973E-005
R = 1.0000
DL = 0.02333
BEC = 0.02702

Weight: <None>
Min Conc: <None>

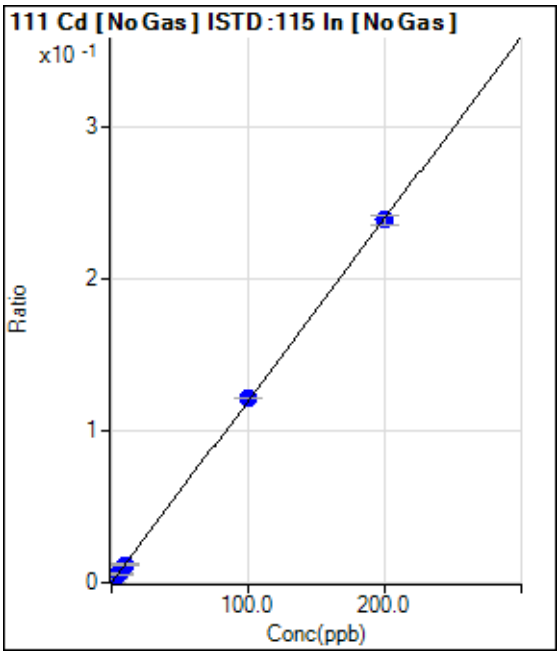
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	20.9
2	☐	2.000	2.078	23674.75	0.0130	P	2.9
3	☐	5.000	5.017	57280.68	0.0312	P	3.1
4	☐	10.000	9.960	116559.08	0.0618	P	1.4
5	☐	100.000	100.259	1135667.01	0.6209	A	2.8
6	☐	200.000	199.871	2241233.20	1.2378	A	2.2

y = 0.0062 * x + 9.4472E-005
R = 1.0000
DL = 0.009561
BEC = 0.01526

Weight: <None>
Min Conc: <None>

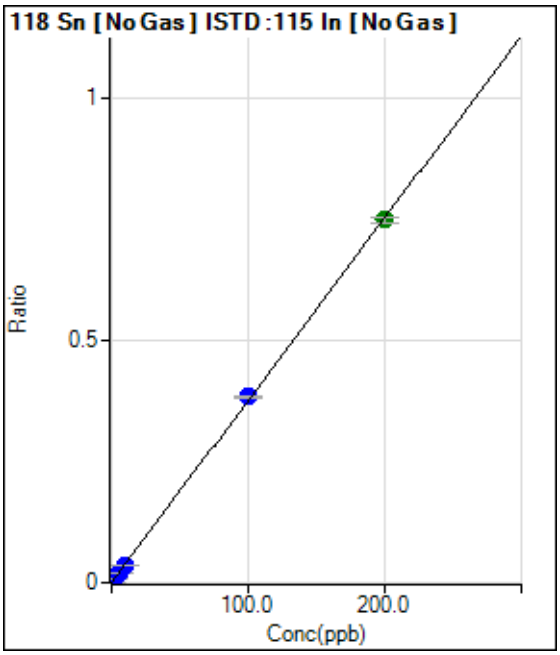


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.76	0.0000	P	87.3
2	☐	2.000	2.021	4435.89	0.0024	P	5.0
3	☐	5.000	4.825	10633.34	0.0058	P	3.8
4	☐	10.000	9.878	22317.65	0.0118	P	4.9
5	☐	100.000	101.246	221614.64	0.1211	P	0.4
6	☐	200.000	199.387	431835.76	0.2386	P	2.9

y = 0.0012 * x + 1.0460E-005
R = 1.0000
DL = 0.0229
BEC = 0.008743

Weight: <None>
Min Conc: <None>

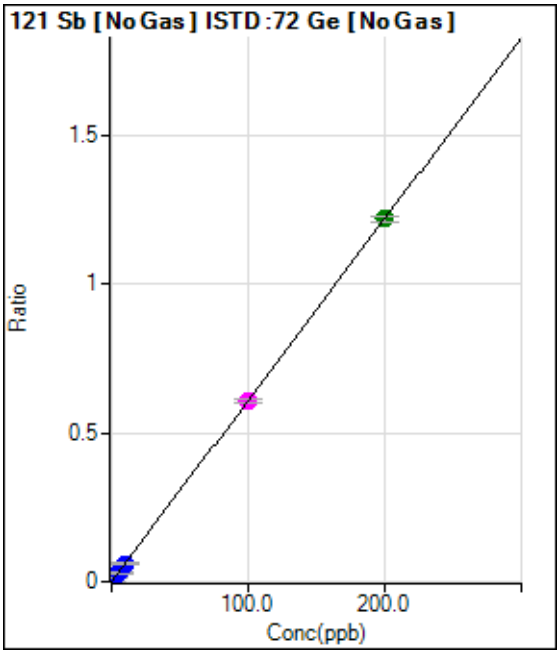
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	573.36	0.0003	P	5.1
2	☐	2.000	1.935	13854.29	0.0076	P	1.6
3	☐	5.000	5.011	35217.57	0.0192	P	3.4
4	☐	10.000	9.801	70167.74	0.0372	P	0.9
5	☐	100.000	101.822	701433.27	0.3834	P	0.8
6	☐	200.000	199.099	1356844.09	0.7494	A	1.7

y = 0.0038 * x + 3.0604E-004
R = 0.9999
DL = 0.01233
BEC = 0.08134

Weight: <None>
Min Conc: <None>

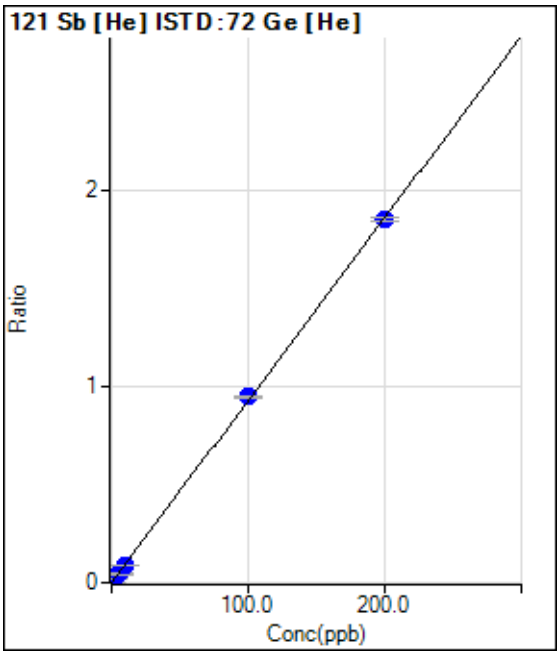


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0001	P	17.8
2	☐	2.000	1.908	19755.24	0.0117	P	2.6
3	☐	5.000	4.847	50028.84	0.0297	P	3.8
4	☐	10.000	10.049	102307.69	0.0614	P	0.8
5	☐	100.000	99.786	1021053.89	0.6088	M	2.1
6	☐	200.000	200.109	2014435.44	1.2208	A	1.3

y = 0.0061 * x + 1.0192E-004
R = 1.0000
DL = 0.008898
BEC = 0.01671

Weight: <None>
Min Conc: <None>

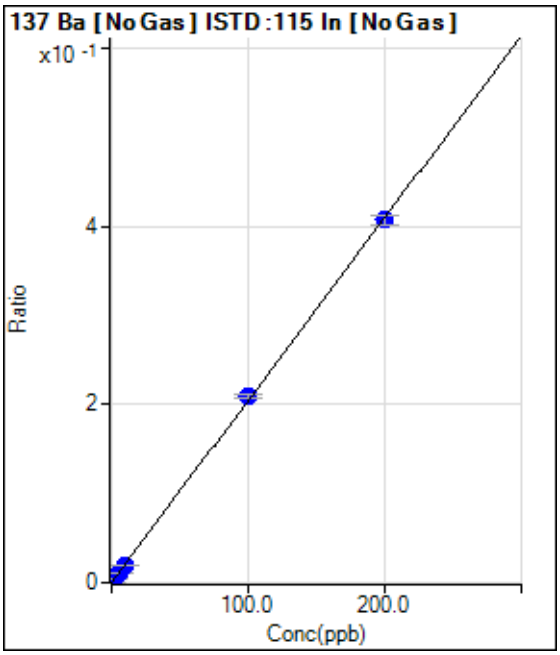
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0001	P	35.6
2	☐	2.000	1.894	6698.51	0.0176	P	5.8
3	☐	5.000	4.779	17031.28	0.0444	P	5.5
4	☐	10.000	9.680	34412.15	0.0898	P	3.3
5	☐	100.000	101.847	358191.31	0.9439	P	0.9
6	☐	200.000	199.099	689345.95	1.8452	P	1.0

y = 0.0093 * x + 8.7600E-005
R = 0.9999
DL = 0.01009
BEC = 0.009453

Weight: <None>
Min Conc: <None>

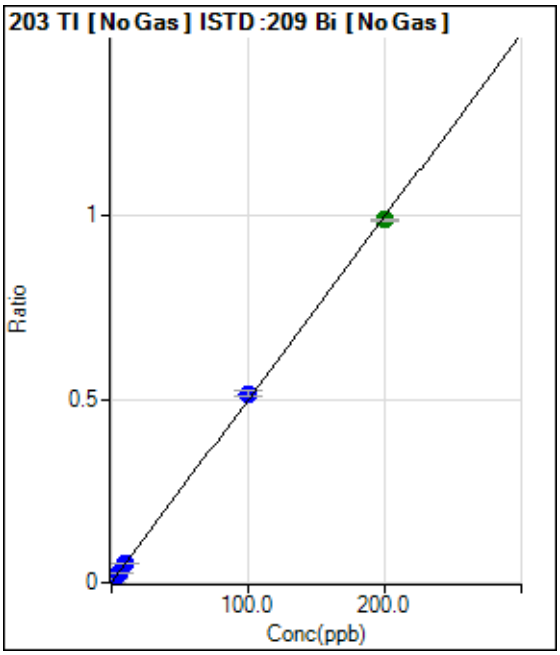


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.68	0.0001	P	18.0
2	☐	2.000	2.058	7865.87	0.0043	P	5.9
3	☐	5.000	4.878	18526.82	0.0101	P	1.8
4	☐	10.000	9.858	38236.59	0.0203	P	1.4
5	☐	100.000	101.969	381605.67	0.2086	P	2.1
6	☐	200.000	199.025	736990.41	0.4071	P	2.8

y = 0.0020 * x + 9.9582E-005
R = 0.9999
DL = 0.0263
BEC = 0.04869

Weight: <None>
Min Conc: <None>

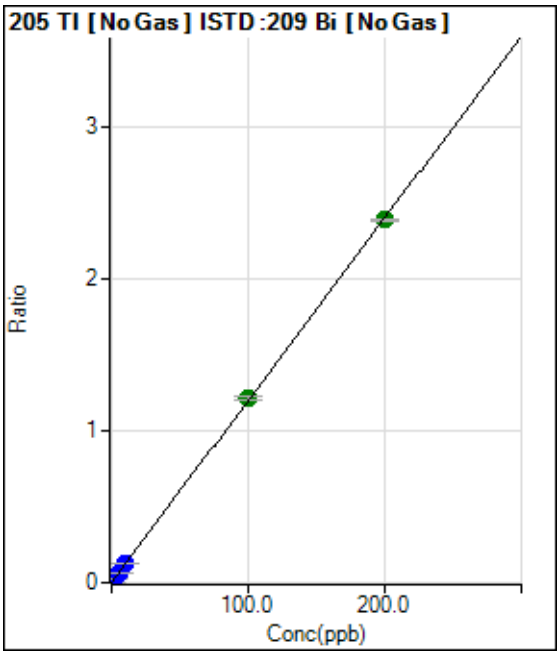
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	810.05	0.0006	P	6.8
2	☐	2.000	2.015	15756.91	0.0106	P	5.3
3	☐	5.000	5.191	39275.61	0.0264	P	4.2
4	☐	10.000	10.449	77952.82	0.0526	P	4.2
5	☐	100.000	103.359	741646.21	0.5158	P	2.4
6	☐	200.000	198.293	1410613.94	0.9890	A	0.8

y = 0.0050 * x + 5.5932E-004
R = 0.9998
DL = 0.02302
BEC = 0.1122

Weight: <None>
Min Conc: <None>

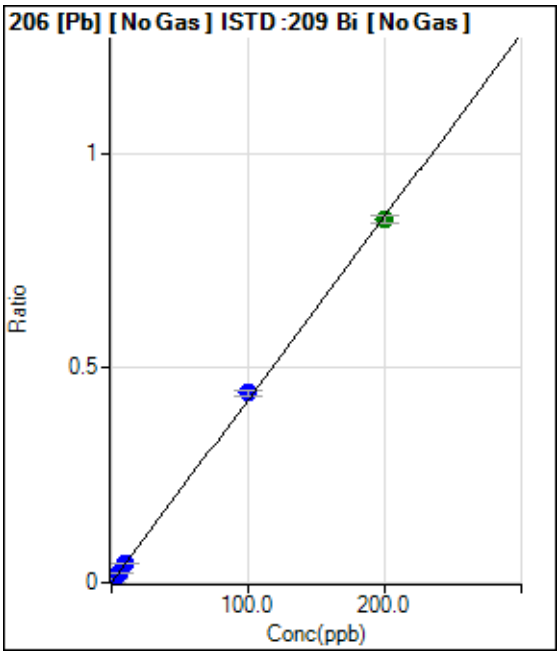


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1823.51	0.0013	P	7.2
2	☐	2.000	2.018	37834.57	0.0255	P	2.6
3	☐	5.000	5.144	93560.59	0.0629	P	1.0
4	☐	10.000	10.293	184589.07	0.1247	P	2.1
5	☐	100.000	101.631	1753958.05	1.2196	A	2.0
6	☐	200.000	199.166	3406931.61	2.3889	A	0.8

y = 0.0120 * x + 0.0013
R = 1.0000
DL = 0.02273
BEC = 0.105

Weight: <None>
Min Conc: <None>

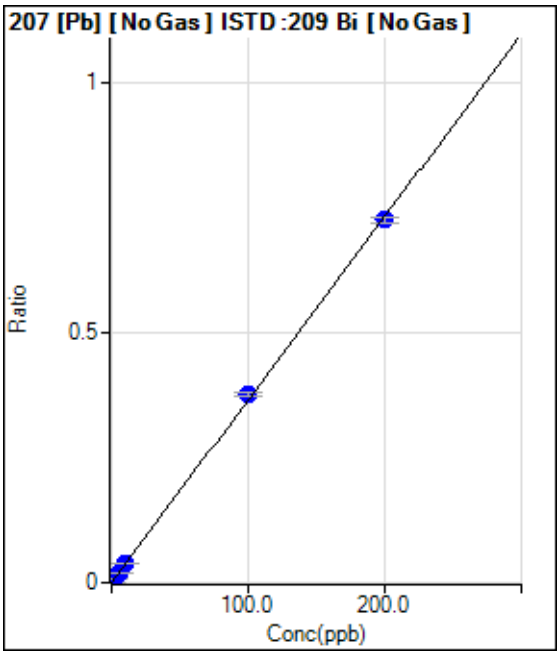
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	240.01	0.0002	P	27.8
2	☐	2.000	1.969	12733.41	0.0086	P	3.3
3	☐	5.000	5.014	32055.28	0.0216	P	3.0
4	☐	10.000	10.120	64201.87	0.0434	P	1.4
5	☐	100.000	103.574	635756.46	0.4422	P	2.9
6	☐	200.000	198.207	1206415.97	0.8460	A	2.1

y = 0.0043 * x + 1.6627E-004
R = 0.9998
DL = 0.03248
BEC = 0.03896

Weight: <None>
Min Conc: <None>

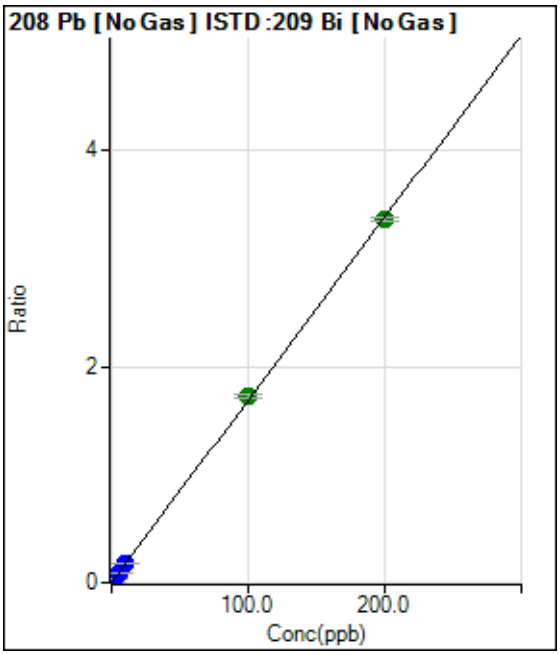


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	22.0
2	☐	2.000	1.902	10538.01	0.0071	P	2.2
3	☐	5.000	4.951	27116.55	0.0182	P	2.4
4	☐	10.000	10.144	55162.26	0.0373	P	2.4
5	☐	100.000	103.162	543225.26	0.3778	P	1.5
6	☐	200.000	198.414	1035948.22	0.7265	P	1.4

y = 0.0037 * x + 1.2180E-004
R = 0.9998
DL = 0.02196
BEC = 0.03327

Weight: <None>
Min Conc: <None>

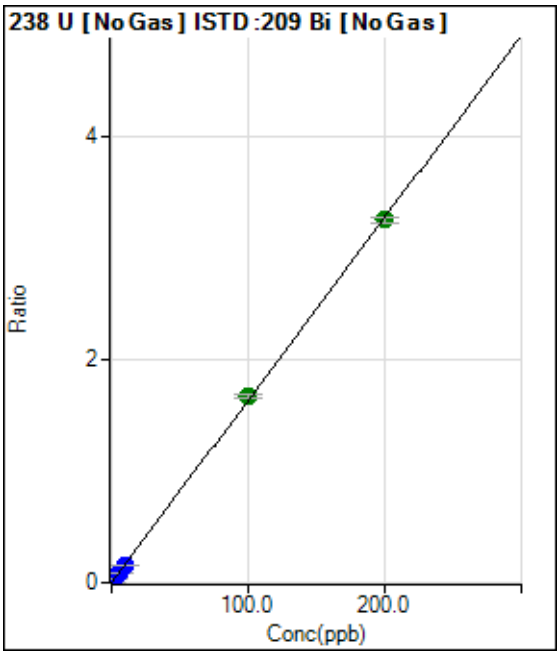
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	860.03	0.0006	P	5.2
2	☐	2.000	1.952	49863.49	0.0335	P	1.9
3	☐	5.000	4.970	125585.56	0.0845	P	1.3
4	☐	10.000	10.121	253859.02	0.1714	P	2.3
5	☐	100.000	102.410	2486454.18	1.7293	A	2.6
6	☐	200.000	198.790	4786374.52	3.3562	A	1.0

y = 0.0169 * x + 5.9369E-004
R = 0.9999
DL = 0.005527
BEC = 0.03517

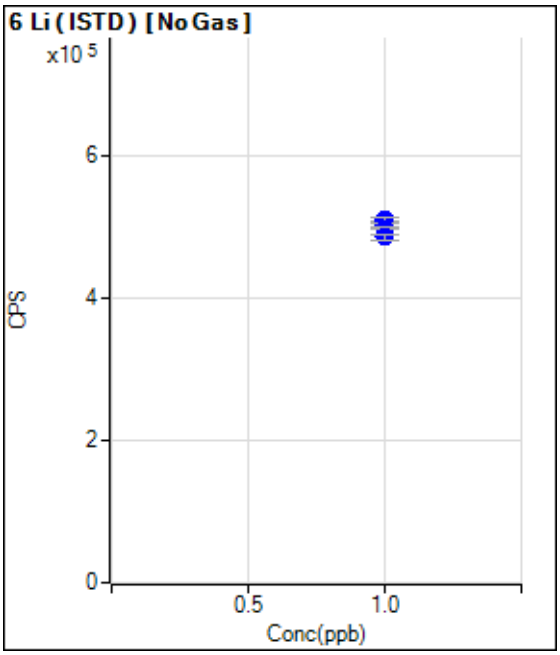
Weight: <None>
Min Conc: <None>



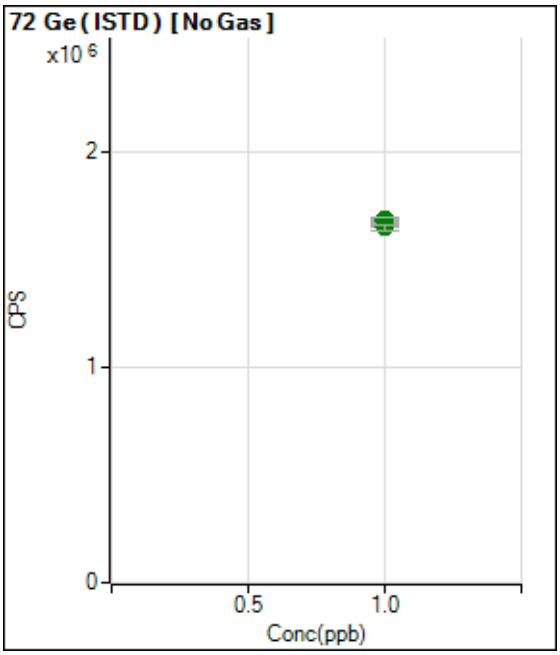
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206.67	0.0001	P	34.5
2	☐	2.000	1.922	47043.98	0.0316	P	2.4
3	☐	5.000	4.865	118703.05	0.0799	P	2.8
4	☐	10.000	9.807	238189.20	0.1609	P	2.6
5	☐	100.000	102.232	2409374.76	1.6756	A	2.1
6	☐	200.000	198.898	4648517.23	3.2598	A	1.4

y = 0.0164 * x + 1.4320E-004
R = 0.9999
DL = 0.009052
BEC = 0.008738

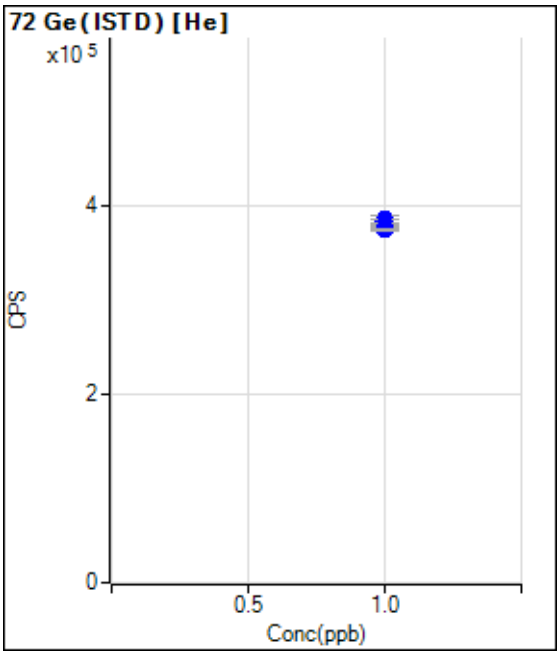
Weight: <None>
Min Conc: <None>



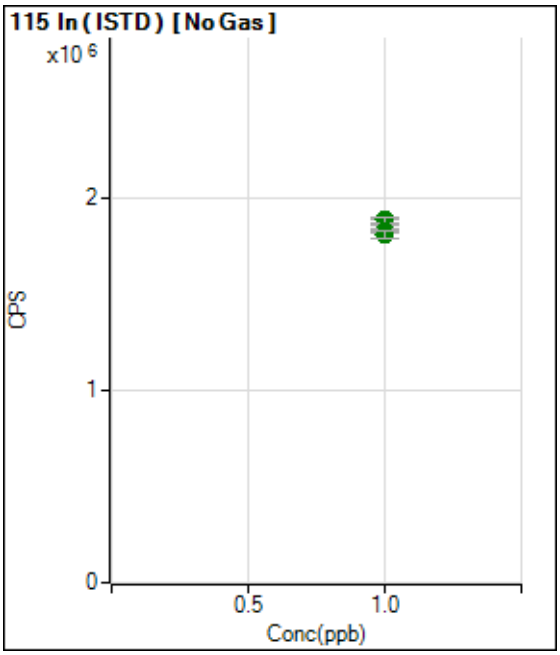
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		502306.34		P	1.4
2	☐	1.000		507143.08		P	0.8
3	☐	1.000		510710.82		P	1.2
4	☐	1.000		509134.45		P	1.6
5	☐	1.000		498327.12		P	0.5
6	☐	1.000		486976.88		P	1.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1672653.26		A	2.5
2	☐	1.000		1682735.55		A	0.1
3	☐	1.000		1686776.96		A	1.6
4	☐	1.000		1666188.26		A	0.6
5	☐	1.000		1677637.27		A	2.7
6	☐	1.000		1650290.81		A	1.6

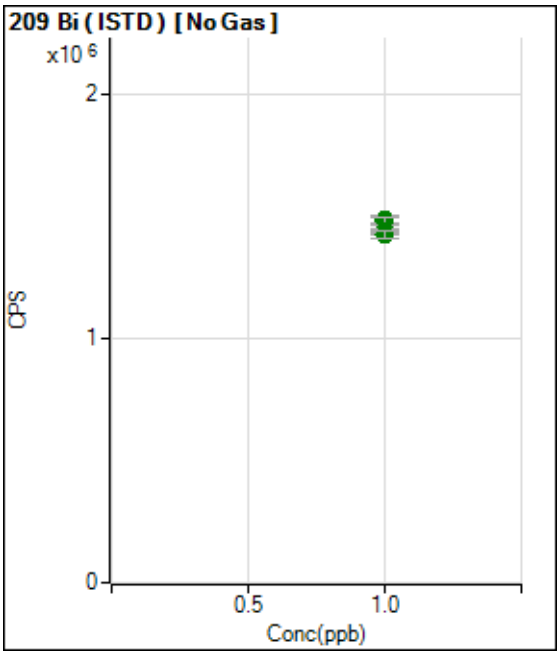


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		381709.71		P	1.4
2	☐	1.000		379541.80		P	1.1
3	☐	1.000		384102.74		P	2.5
4	☐	1.000		383257.55		P	0.9
5	☐	1.000		379443.84		P	0.9
6	☐	1.000		373603.21		P	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1872489.39		A	1.7
2	☐	1.000		1826438.46		A	1.0
3	☐	1.000		1838690.05		A	1.8
4	☐	1.000		1887106.58		A	1.6
5	☐	1.000		1829335.53		A	1.3
6	☐	1.000		1810934.78		A	2.3

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1449391.80		A	2.2
2	☐	1.000		1486779.77		A	1.9
3	☐	1.000		1486750.66		A	2.7
4	☐	1.000		1481241.59		A	2.5
5	☐	1.000		1438260.76		A	1.8
6	☐	1.000		1426251.65		A	1.7

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	024LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:24:24-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	015CALB.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	2.031	2.031	1.93	47498	0.00	2	
Be	9	1	No Gas	1.943	1.943	3.14	4387	0.04	2	
V	51	2	He	1.825	1.825	6.12	9695	0.02	2	
Cr	52	2	He	2.139	2.139	3.49	15079	0.01	2	
Fe	56	2	He	210.859	210.859	3.26	779603	0.03	200	
Se	78	2	He	2.273	2.273	4.07	205	1.11	2	
As	75	2	He	1.937	1.937	4.71	1311	0.15	2	
Ca	44	2	He	194.959	194.959	7.17	5591	3.49	200	
Na	23	2	He	216.029	216.029	2.27	211350	0.10	200	
Mg	24	2	He	217.069	217.069	2.27	89329	0.24	200	
K	39	2	He	207.634	207.634	2.95	203012	0.10	200	
Mn	55	2	He	1.874	1.874	0.84	7692	0.02	2	
Co	59	2	He	2.048	2.048	3.26	12830	0.02	2	
Ni	60	2	He	2.002	2.002	5.79	3214	0.06	2	
Cu	63	2	He	2.062	2.062	3.26	8493	0.02	2	
Zn	66	2	He	2.174	2.174	1.58	2037	0.11	2	
Al	27	2	He	2.142	2.142	21.25	1123	0.19	2	
B	11	1	No Gas	13.960	13.960	1.46	27911	0.05	10	NewName Main CR1 Failed
Al	27	1	No Gas	2.536	2.536	1.63	47816	0.01	2	
Si	28	1	No Gas	10.314	10.314	5.42	357204	0.00	10	
Ag	107	1	No Gas	2.003	2.003	3.70	23899	0.01	2	
Cd	111	1	No Gas	2.078	2.078	2.88	4777	0.04	2	
Sr	88	1	No Gas	2.025	2.025	1.13	49934	0.00	2	
Mo	95	1	No Gas	1.905	1.905	3.06	9704	0.02	2	
Sn	118	1	No Gas	2.001	2.001	1.97	14986	0.01	2	
Sb	121	1	No Gas	1.985	1.985	2.14	20613	0.01	2	
Ba	137	1	No Gas	1.926	1.926	1.04	7726	0.02	2	
Tl	205	1	No Gas	2.159	2.159	2.43	40209	0.01	2	
Tl	203	1	No Gas	2.181	2.181	3.71	16928	0.01	2	
Pb	208	1	No Gas	2.067	2.067	2.10	52575	0.00	2	
U	238	1	No Gas	1.972	1.972	2.07	48098	0.00	2	
Ca	43	2	He	164.844	164.844	5.18	303	54.34	200	
Sb	121	2	He	2.040	2.040	4.09	7252	0.03	2	
Ti	47	2	He	2.307	2.307	30.00	343	0.67	200	
Cu	63	1	No Gas	2.088	2.088	2.49	19448	0.01	2	
Se	82	1	No Gas	1.981	1.981	9.57	402	0.49	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	529252	0.56	502306	105.36	70	120	
Ge	72	2	He	381920	0.86	381710	100.06	70	120	
Ge	72	1	No Gas	1688533	0.30	1672653	100.95	70	120	
In	115	1	No Gas	1912875	1.20	1872489	102.16	70	120	
Bi	209	1	No Gas	1481918	2.17	1449392	102.24	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	025LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:26:21-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	015CALB.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	4.869	4.869	4.39	67012	0.01	5	
Be	9	1	No Gas	4.625	4.625	4.24	10302	0.04	5	
V	51	2	He	4.640	4.640	2.16	21018	0.02	5	
Cr	52	2	He	4.987	4.987	0.80	27879	0.02	5	
Fe	56	2	He	509.681	509.681	2.08	1866523	0.03	500	
Se	78	2	He	4.668	4.668	8.38	336	1.39	5	
As	75	2	He	5.101	5.101	0.39	3238	0.16	5	
Ca	44	2	He	485.355	485.355	1.79	13347	3.64	500	
Na	23	2	He	533.750	533.750	0.38	432284	0.12	500	
Mg	24	2	He	546.228	546.228	0.72	224497	0.24	500	
K	39	2	He	517.979	517.979	0.48	368439	0.14	500	
Mn	55	2	He	4.888	4.888	2.71	17128	0.03	5	
Co	59	2	He	4.897	4.897	2.98	30264	0.02	5	
Ni	60	2	He	4.928	4.928	1.13	7722	0.06	5	
Cu	63	2	He	5.052	5.052	4.31	19992	0.03	5	
Zn	66	2	He	4.942	4.942	10.73	4061	0.12	5	
Al	27	2	He	5.502	5.502	17.08	2000	0.28	5	
B	11	1	No Gas	27.257	27.257	4.46	46082	0.06	25	
Al	27	1	No Gas	5.103	5.103	4.23	75596	0.01	5	
Si	28	1	No Gas	24.346	24.346	6.85	440019	0.01	25	
Ag	107	1	No Gas	5.059	5.059	1.71	59236	0.01	5	
Cd	111	1	No Gas	4.706	4.706	3.67	10639	0.04	5	
Sr	88	1	No Gas	4.996	4.996	1.36	120598	0.00	5	
Mo	95	1	No Gas	4.728	4.728	3.05	23544	0.02	5	
Sn	118	1	No Gas	4.857	4.857	0.35	35037	0.01	5	
Sb	121	1	No Gas	4.679	4.679	2.81	48781	0.01	5	
Ba	137	1	No Gas	4.845	4.845	4.26	18874	0.03	5	
Tl	205	1	No Gas	5.129	5.129	3.19	94111	0.01	5	
Tl	203	1	No Gas	5.122	5.122	3.00	39135	0.01	5	
Pb	208	1	No Gas	4.947	4.947	2.29	126145	0.00	5	
U	238	1	No Gas	4.919	4.919	1.57	121150	0.00	5	
Ca	43	2	He	455.058	455.058	11.59	763	59.61	500	
Sb	121	2	He	4.839	4.839	2.22	17198	0.03	5	
Ti	47	2	He	4.787	4.787	18.74	713	0.67	5	
Cu	63	1	No Gas	5.149	5.149	2.83	46232	0.01	5	
Se	82	1	No Gas	5.072	5.072	12.97	918	0.55	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	524484	2.17	502306	104.42	70	120	
Ge	72	2	He	382712	0.74	381710	100.26	70	120	
Ge	72	1	No Gas	1703686	2.37	1672653	101.86	70	120	

Sample Report

In	115	1	No Gas	1885649	1.79	1872489	100.70	70	120	
Bi	209	1	No Gas	1500321	2.02	1449392	103.51	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	026_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:28:18-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	-0.269	-22.1	32887	3.4	0.5	
Be	9	1	No Gas	0.001	545.8	33	31.2	0.5	
V	51	2	He	-0.412	-3.9	740	8.9	2.5	
Cr	52	2	He	-0.570	-1.3	3000	0.9	2.5	
Fe	56	2	He	0.174	35.9	16300	1.8	100	
Se	78	2	He	0.214	62.3	93	7.5	1	
As	75	2	He	-0.113	-19.3	69	19.5	2.5	
Ca	44	2	He	-3.293	-72.2	323	20.1	100	
Na	23	2	He	4.756	24.9	65825	0.9	100	
Mg	24	2	He	0.138	33.5	577	3.6	100	
K	39	2	He	-3.076	-154.6	92310	2.4	100	
Mn	55	2	He	0.238	8.5	2620	2.7	2.5	
Co	59	2	He	0.038	16.5	573	6.6	2.5	
Ni	60	2	He	-0.029	-34.4	97	15.8	2.5	
Cu	63	2	He	0.045	36.5	773	7.8	1	
Zn	66	2	He	-0.122	-107.9	370	25.8	2.5	
Al	27	2	He	0.061	343.2	590	9.0	5	
B	11	1	No Gas	1.849	5.9	11556	0.9	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-0.162	-34.7	19744	4.4	5	
Si	28	1	No Gas	3.638	24.6	326905	0.6	10	
Ag	107	1	No Gas	-0.004	-119.7	133	41.3	2.5	
Cd	111	1	No Gas	-0.009	-49.8	0	-2056.6	1	
Sr	88	1	No Gas	-0.002	-53.6	500	5.3	2.5	
Mo	95	1	No Gas	0.011	56.0	190	15.8	2.5	
Sn	118	1	No Gas	0.032	23.7	803	6.9	5	
Sb	121	1	No Gas	0.037	18.5	567	14.2	2.5	
Ba	137	1	No Gas	0.002	1231.2	193	38.1	2.5	
Tl	205	1	No Gas	0.016	5.4	2177	2.5	1	
Tl	203	1	No Gas	0.003	250.6	863	4.7	1	
Pb	208	1	No Gas	-0.005	-31.3	763	2.0	2.5	
U	238	1	No Gas	0.002	43.3	277	12.7	2.5	
Ca	43	2	He	-18.897	-38.2	13	86.6	100	
Sb	121	2	He	0.033	4.6	153	3.8	2.5	
Ti	47	2	He	0.044	86.6	7	86.6	2.5	
Se	82	1	No Gas	-0.649	-41.9	-32	-144.3	1	

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	558231	2.11	502306	111.13	70	120	
Ge	72	2	He	386405	0.42	381710	101.23	70	120	
Ge	72	1	No Gas	1727542	2.09	1672653	103.28	70	120	
In	115	1	No Gas	1884259	0.87	1872489	100.63	70	120	
Bi	209	1	No Gas	1502927	3.22	1449392	103.69	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	028ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:32:31-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	0.425	13.7	35440	3.2	0	ICSA Main CR1 Failed
Be	9	1	No Gas	-0.007	-58.9	15	57.7	0	ICSA Main CR1 Failed
V	51	2	He	-0.032	-15.8	2152	1.3	0	ICSA Main CR1 Failed
Cr	52	2	He	1.694	2.9	12506	1.0	0	ICSA Main CR1 Failed
Fe	56	2	He	100876.146	1.3	349343928	1.1	0	
Se	78	2	He	0.479	54.3	102	13.6	0	ICSA Main CR1 Failed
As	75	2	He	0.177	4.2	233	2.5	0	ICSA Main CR1 Failed
Ca	44	2	He	94148.828	0.8	2393325	1.2	0	
Na	23	2	He	101765.748	0.8	67391477	1.1	0	
Mg	24	2	He	101876.818	1.1	39832417	1.3	0	
K	39	2	He	100727.087	0.5	51145641	1.0	0	
Mn	55	2	He	0.731	11.1	3944	6.5	0	ICSA Main CR1 Failed
Co	59	2	He	0.366	7.2	2450	6.9	0	ICSA Main CR1 Failed
Ni	60	2	He	0.886	4.8	1433	4.6	0	ICSA Main CR1 Failed
Cu	63	2	He	0.242	11.0	1453	7.0	0	ICSA Main CR1 Failed
Zn	66	2	He	2.650	4.9	2277	3.8	0	ICSA Main CR1 Failed
Al	27	2	He	97215.072	2.2	24096586	2.8	0	
B	11	1	No Gas	2.784	12.7	12034	1.9	0	
Al	27	1	No Gas	99365.761	1.7	1003914758	1.3	0	
Si	28	1	No Gas	26.611	5.5	429059	1.8	0	
Ag	107	1	No Gas	0.168	5.1	1984	6.5	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.281	20.5	604	18.2	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	4.821	2.1	107550	0.5	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1942.063	3.2	8885744	1.2	0	
Sn	118	1	No Gas	0.059	29.9	923	12.9	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.252	9.0	2644	7.4	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.665	8.3	2540	5.9	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	-0.014	-80.7	1460	9.0	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	-0.027	-81.7	570	23.6	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.174	4.0	4744	0.7	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.009	16.2	387	12.2	0	ICSA Main CR1 Failed
Ca	43	2	He	98161.033	0.1	148143	0.5	0	
Sb	121	2	He	0.253	11.7	887	11.8	0	ICSA Main CR1 Failed
Ti	47	2	He	2133.448	0.8	303022	1.4	0	
Se	82	1	No Gas	0.234	238.7	109	80.9	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	519458	2.08	502306	103.41	70	120	
Ge	72	2	He	364906	0.63	381710	95.60	70	120	
Ge	72	1	No Gas	1613735	2.06	1672653	96.48	70	120	
In	115	1	No Gas	1742709	2.02	1872489	93.07	70	120	
Bi	209	1	No Gas	1347522	4.03	1449392	92.97	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	029ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:34:30-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	97.233	1.537	716106	0.94	100	97.2	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	95.556	2.187	212146	1.21	100	95.6	80	120	
V	51	2	He	102.406	0.239	390480	1.04	100	102.4	80	120	
Cr	52	2	He	101.996	0.639	436829	1.00	100	102.0	80	120	
Fe	56	2	He	110083.261	0.620	377531248	0.79	100	110083.3	80	120	
Se	78	2	He	106.683	0.723	5586	1.28	100	106.7	80	120	
As	75	2	He	104.461	0.949	60087	0.98	100	104.5	80	120	
Ca	44	2	He	104943.003	1.213	2641640	0.98	100	104943.0	80	120	
Na	23	2	He	111093.889	0.813	72845274	0.11	100	111093.9	80	120	
Mg	24	2	He	112053.447	0.534	43384576	0.30	100	112053.4	80	120	
K	39	2	He	109789.412	1.267	55194234	0.76	100	109789.4	80	120	
Mn	55	2	He	101.785	0.776	302147	1.27	100	101.8	80	120	
Co	59	2	He	101.697	0.598	587211	0.65	100	101.7	80	120	
Ni	60	2	He	99.434	0.351	144585	0.52	100	99.4	80	120	
Cu	63	2	He	99.291	1.030	360478	1.01	100	99.3	80	120	
Zn	66	2	He	103.560	0.083	71753	0.83	100	103.6	80	120	
Al	27	2	He	95716.852	1.146	23492245	1.15	100	95716.9	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	480.235	1.817	673788	1.00	100	480.2	80	120	
Al	27	1	No Gas	98479.103	4.292	997450625	1.30	100	98479.1	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	541.403	4.405	3208469	1.11	100	541.4	80	120	
Ag	107	1	No Gas	97.921	2.656	1045589	0.67	100	97.9	80	120	
Cd	111	1	No Gas	102.234	2.969	210888	1.01	100	102.2	80	120	
Sr	88	1	No Gas	110.045	1.960	2418567	1.00	100	110.0	80	120	
Mo	95	1	No Gas	2049.586	0.804	9284552	2.07	100	2049.6	80	120	
Sn	118	1	No Gas	101.968	1.381	662086	0.67	100	102.0	80	120	
Sb	121	1	No Gas	101.074	2.274	997913	1.26	100	101.1	80	120	
Ba	137	1	No Gas	104.023	1.338	367012	0.72	100	104.0	80	120	
Tl	205	1	No Gas	97.337	1.315	1543596	0.85	100	97.3	80	120	
Tl	203	1	No Gas	97.121	0.255	640505	0.41	100	97.1	80	120	
Pb	208	1	No Gas	103.594	1.287	2311578	1.17	100	103.6	80	120	
U	238	1	No Gas	108.368	1.074	2347118	1.37	100	108.4	80	120	
Ca	43	2	He	108788.540	0.695	162586	1.26	100	108788.5	80	120	
Sb	121	2	He	101.830	0.684	341034	0.31	100	101.8	80	120	
Ti	47	2	He	2238.421	0.609	314847	1.43	100	2238.4	80	120	
Cu	63	1	No Gas	101.956	4.717	843349	1.26	100	102.0	80	120	
Se	82	1	No Gas	103.987	3.643	16488	2.02	100	104.0	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	524022	1.15	502306	104.32	70	120	
Ge	72	2	He	361363	0.82	381710	94.67	70	120	
Ge	72	1	No Gas	1619073	3.57	1672653	96.80	70	120	
In	115	1	No Gas	1724666	1.99	1872489	92.11	70	120	
Bi	209	1	No Gas	1321460	0.63	1449392	91.17	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	032_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:44:09-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	99.757	2.567	705987	1.30	100	99.8	90	110	
Be	9	1	No Gas	98.584	2.248	210575	1.01	100	98.6	90	110	
V	51	2	He	101.150	2.084	407007	1.41	100	101.1	90	110	
Cr	52	2	He	101.836	2.268	460236	1.74	100	101.8	90	110	
Fe	56	2	He	10394.375	1.094	37632219	0.82	10000	103.9	90	110	
Se	78	2	He	103.306	2.527	5711	3.15	100	103.3	90	110	
As	75	2	He	101.400	1.927	61552	1.09	100	101.4	90	110	
Ca	44	2	He	10293.585	1.616	273797	0.88	10000	102.9	90	110	
Na	23	2	He	10230.944	1.553	7135451	1.13	10000	102.3	90	110	
Mg	24	2	He	10167.191	2.111	4154367	1.37	10000	101.7	90	110	
K	39	2	He	10060.058	2.534	5420994	1.65	10000	100.6	90	110	
Mn	55	2	He	102.203	1.880	320125	1.14	100	102.2	90	110	
Co	59	2	He	103.174	1.792	628637	0.99	100	103.2	90	110	
Ni	60	2	He	106.269	1.732	163048	0.91	100	106.3	90	110	
Cu	63	2	He	102.388	1.309	392249	0.63	100	102.4	90	110	
Zn	66	2	He	103.117	1.319	75396	0.99	100	103.1	90	110	
Al	27	2	He	102.511	3.269	27113	2.42	100	102.5	90	110	
B	11	1	No Gas	503.138	1.275	678836	0.62	500	100.6	90	110	
Al	27	1	No Gas	102.998	1.043	1092914	1.10	100	103.0	90	110	
Si	28	1	No Gas	510.864	4.096	3127092	1.83	5000	10.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	101.817	0.844	1160570	2.17	100	101.8	90	110	
Cd	111	1	No Gas	101.598	1.880	223676	0.21	100	101.6	90	110	
Sr	88	1	No Gas	102.602	1.161	2406563	0.84	100	102.6	90	110	
Mo	95	1	No Gas	100.891	0.567	487827	1.95	100	100.9	90	110	
Sn	118	1	No Gas	101.401	2.242	702531	0.79	100	101.4	90	110	
Sb	121	1	No Gas	101.249	1.439	1026951	0.59	100	101.2	90	110	
Ba	137	1	No Gas	101.771	1.056	383180	0.87	100	101.8	90	110	
Tl	205	1	No Gas	98.829	5.258	1757231	2.20	100	98.8	90	110	
Tl	203	1	No Gas	98.714	5.230	729890	2.06	100	98.7	90	110	
Pb	208	1	No Gas	101.075	2.798	2530029	0.78	100	101.1	90	110	
U	238	1	No Gas	102.166	4.416	2481399	1.65	100	102.2	90	110	
Ca	43	2	He	10095.133	1.933	15959	1.58	10000	101.0	90	110	
Sb	121	2	He	102.825	1.708	363395	1.02	100	102.8	90	110	
Ti	47	2	He	104.124	0.502	15456	1.27	100	104.1	90	110	
Cu	63	1	No Gas	102.714	2.055	873283	1.06	100	102.7	90	110	
Se	82	1	No Gas	102.501	1.977	16700	0.24	100	102.5	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	504188	1.34	502306	100.37	70	120	
Ge	72	2	He	381350	0.83	381710	99.91	70	120	
Ge	72	1	No Gas	1662719	2.01	1672653	99.41	70	120	
In	115	1	No Gas	1840374	1.78	1872489	98.28	70	120	
Bi	209	1	No Gas	1483195	3.14	1449392	102.33	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	033_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:46:03-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	0.121	55.9	32416	1.2	0.5	
Be	9	1	No Gas	0.012	76.2	55	36.4	0.5	
V	51	2	He	-0.193	-20.5	1616	11.0	2.5	
Cr	52	2	He	-0.027	-449.9	5411	10.9	2.5	
Fe	56	2	He	1.975	7.4	22706	0.1	100	
Se	78	2	He	-0.088	-246.8	76	15.8	2	
As	75	2	He	-0.031	-101.4	118	14.0	2.5	
Ca	44	2	He	-2.310	-80.4	347	14.5	100	
Na	23	2	He	-0.113	-2249.6	61874	1.9	100	
Mg	24	2	He	1.600	19.7	1170	9.0	100	
K	39	2	He	-8.272	-53.7	88744	0.6	100	
Mn	55	2	He	-0.058	-120.4	1670	10.8	2.5	
Co	59	2	He	-0.009	-103.6	280	17.9	2.5	
Ni	60	2	He	-0.022	-150.7	107	46.2	2.5	
Cu	63	2	He	0.022	57.2	680	5.3	2	
Zn	66	2	He	-0.112	-73.4	373	13.7	2.5	
Al	27	2	He	0.001	41549.4	570	18.6	5	
B	11	1	No Gas	4.288	8.9	13728	3.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.394	18.6	24976	0.6	5	
Si	28	1	No Gas	0.254	498.0	298243	1.7	10	
Ag	107	1	No Gas	0.011	35.7	307	15.1	2.5	
Cd	111	1	No Gas	0.009	280.5	40	142.9	1	
Sr	88	1	No Gas	0.008	0.5	730	4.1	2.5	
Mo	95	1	No Gas	0.148	1.0	853	4.7	2.5	
Sn	118	1	No Gas	0.110	32.7	1333	16.0	5	
Sb	121	1	No Gas	0.164	20.1	1840	16.4	2.5	
Ba	137	1	No Gas	-0.007	-147.6	157	25.8	2.5	
Tl	205	1	No Gas	0.770	26.7	15828	27.4	1	
Tl	203	1	No Gas	0.738	28.8	6392	28.7	1	
Pb	208	1	No Gas	0.015	11.6	1270	2.1	2.5	
U	238	1	No Gas	0.033	25.6	1020	24.1	2.5	
Ca	43	2	He	-8.366	-127.2	30	57.7	100	
Sb	121	2	He	0.127	8.0	483	5.2	2.5	
Ti	47	2	He	0.046	173.2	7	173.2	2.5	
Cu	63	1	No Gas	0.020	104.9	1603	7.9	2.5	
Se	82	1	No Gas	-0.132	-452.5	55	182.4	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	505538	0.59	502306	100.64	70	120	
Ge	72	2	He	383169	2.25	381710	100.38	70	120	
Ge	72	1	No Gas	1676593	3.69	1672653	100.24	70	120	
In	115	1	No Gas	1857057	4.04	1872489	99.18	70	120	
Bi	209	1	No Gas	1499317	3.73	1449392	103.44	70	120	

Sample Report

Sample Table

Sample Name	MBLK-199483
Data File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:55:13-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	-0.143	-0.143	-15.23	30658	0.00	2000	
Be	9	1	No Gas	-0.006	-0.006	-64.76	17	-0.03	2000	
V	51	2	He	-0.101	-0.101	-10.04	2016	0.00	2000	
Cr	52	2	He	-0.154	-0.154	-24.98	4914	0.00	2000	
Fe	56	2	He	0.072	0.072	82.25	16030	0.00	200000	
Se	78	2	He	0.275	0.275	52.27	97	0.28	2000	
As	75	2	He	-0.067	-0.067	-46.29	98	-0.07	2000	
Ca	44	2	He	5.740	5.740	83.66	570	1.01	200000	
Na	23	2	He	-2.483	-2.483	-47.40	61140	0.00	200000	
Mg	24	2	He	4.050	4.050	1.92	2210	0.18	200000	
K	39	2	He	-9.624	-9.624	-14.70	89365	-0.01	200000	
Mn	55	2	He	-0.103	-0.103	-42.93	1553	-0.01	2000	
Co	59	2	He	-0.025	-0.025	-13.25	183	-0.01	2000	
Ni	60	2	He	-0.027	-0.027	-122.95	100	-0.03	2000	
Cu	63	2	He	0.002	0.002	233.04	613	0.00	2000	
Zn	66	2	He	0.226	0.226	30.15	630	0.04	2000	
Al	27	2	He	2.191	2.191	22.24	1157	0.19	2000	
B	11	1	No Gas	0.259	0.259	91.75	8348	0.00	2000	
Al	27	1	No Gas	2.185	2.185	5.93	44605	0.00	2000	
Si	28	1	No Gas	16.013	16.013	8.95	393784	0.00	2000	
Ag	107	1	No Gas	0.000	0.000	-2286.56	173	0.00	2000	
Cd	111	1	No Gas	-0.004	-0.004	-183.31	10	-0.04	2000	
Sr	88	1	No Gas	0.021	0.021	35.20	1050	0.00	2000	
Mo	95	1	No Gas	0.021	0.021	40.45	237	0.01	2000	
Sn	118	1	No Gas	0.041	0.041	42.42	863	0.00	2000	
Sb	121	1	No Gas	0.018	0.018	20.83	360	0.00	2000	
Ba	137	1	No Gas	0.027	0.027	40.25	290	0.01	2000	
Tl	205	1	No Gas	-0.015	-0.015	-44.91	1630	0.00	2000	
Tl	203	1	No Gas	-0.032	-0.032	-24.26	610	-0.01	2000	
Pb	208	1	No Gas	-0.004	-0.004	-101.40	800	0.00	2000	
U	238	1	No Gas	0.003	0.003	138.11	287	0.00	2000	
Ca	43	2	He	-6.487	-6.487	-55.79	33	-19.46	200000	
Sb	121	2	He	0.020	0.020	48.09	107	0.02	2000	
Ti	47	2	He	0.000	0.000	#DIV/0!	0	#DIV/0!	2000	
Cu	63	1	No Gas	0.002	0.002	659.18	1480	0.00	2000	
Zn	66	1	No Gas	0.286	0.286	19.02	2080	0.01	2000	
Se	82	1	No Gas	-0.135	-0.135	-429.58	55	-0.25	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	505986	0.55	502306	100.73	70	120	
Ge	72	2	He	388856	0.24	381710	101.87	70	120	
Ge	72	1	No Gas	1708414	1.99	1672653	102.14	70	120	
In	115	1	No Gas	1879262	1.93	1872489	100.36	70	120	

Sample Report

Bi	209	1	No Gas	1517327	2.16	1449392	104.69	70	120	

Sample Report

Sample Table

Sample Name	HS23081040-01
Data File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:59:08-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	36.758	36.758	2.34	275178	0.01	2000	
Be	9	1	No Gas	0.129	0.129	18.50	300	0.04	2000	
V	51	2	He	0.923	0.923	5.47	6065	0.02	2000	
Cr	52	2	He	2.521	2.521	4.55	16744	0.02	2000	
Fe	56	2	He	569.461	569.461	1.94	2073980	0.03	200000	
Se	78	2	He	0.753	0.753	33.55	121	0.62	2000	
As	75	2	He	0.658	0.658	10.77	534	0.12	2000	
Ca	44	2	He	52601.294	52601.294	1.13	1395947	3.77	200000	
Na	23	2	He	267340.351	267340.351	1.77	184696464	0.14	200000	>LDR
Mg	24	2	He	39037.812	39037.812	2.64	15932369	0.25	200000	
K	39	2	He	1070.243	1070.243	1.64	658914	0.16	200000	
Mn	55	2	He	288.529	288.529	1.49	899400	0.03	2000	
Co	59	2	He	5.042	5.042	2.48	30999	0.02	2000	
Ni	60	2	He	13.279	13.279	3.62	20476	0.06	2000	
Cu	63	2	He	7.344	7.344	2.26	28657	0.03	2000	
Zn	66	2	He	20.676	20.676	3.36	15462	0.13	2000	
Al	27	2	He	49.689	49.689	6.81	13417	0.37	2000	
B	11	1	No Gas	35.509	35.509	3.91	54338	0.07	2000	
Al	27	1	No Gas	52.751	52.751	6.86	568405	0.01	2000	
Si	28	1	No Gas	20374.476	20374.476	3.09	112971742	0.02	2000	>LDR
Ag	107	1	No Gas	0.013	0.013	39.48	313	0.00	2000	
Cd	111	1	No Gas	0.112	0.112	121.77	264	0.04	2000	
Sr	88	1	No Gas	1030.990	1030.990	2.57	23892332	0.00	2000	
Mo	95	1	No Gas	0.663	0.663	6.59	3297	0.02	2000	
Sn	118	1	No Gas	0.293	0.293	14.48	2557	0.01	2000	
Sb	121	1	No Gas	0.242	0.242	9.38	2614	0.01	2000	
Ba	137	1	No Gas	487.625	487.625	3.75	1813218	0.03	2000	
Tl	205	1	No Gas	0.995	0.995	29.68	18608	0.01	2000	
Tl	203	1	No Gas	0.974	0.974	29.64	7639	0.01	2000	
Pb	208	1	No Gas	0.114	0.114	9.64	3540	0.00	2000	
U	238	1	No Gas	1.673	1.673	0.88	38789	0.00	2000	
Ca	43	2	He	55729.851	55729.851	0.96	87816	63.46	200000	
Sb	121	2	He	0.227	0.227	7.36	833	0.03	2000	
Ti	47	2	He	1.575	1.575	20.30	233	0.68	2000	
Cu	63	1	No Gas	10.430	10.430	1.60	89709	0.01	2000	
Zn	66	1	No Gas	20.289	20.289	1.80	50390	0.04	2000	
Se	82	1	No Gas	4.873	4.873	20.19	861	0.57	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	495539	3.12	502306	98.65	70	120	
Ge	72	2	He	380919	0.77	381710	99.79	70	120	
Ge	72	1	No Gas	1657911	1.26	1672653	99.12	70	120	
In	115	1	No Gas	1818755	1.62	1872489	97.13	70	120	
Bi	209	1	No Gas	1407198	2.07	1449392	97.09	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01MS
Data File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:01:07-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	44.953	44.953	1.10	378815	0.01	2000	
Be	9	1	No Gas	47.355	47.355	1.19	114239	0.04	2000	
V	51	2	He	51.431	51.431	2.65	207629	0.02	2000	
Cr	52	2	He	49.956	49.956	1.22	228073	0.02	2000	
Fe	56	2	He	5098.428	5098.428	2.00	18423826	0.03	200000	
Se	78	2	He	33.775	33.775	1.34	1917	1.76	2000	
As	75	2	He	52.849	52.849	2.61	32070	0.16	2000	
Ca	44	2	He	19275.729	19275.729	2.08	511182	3.77	200000	
Na	23	2	He	832238.793	832238.793	2.00	574150271	0.14	200000	>LDR
Mg	24	2	He	22866.857	22866.857	3.34	9320412	0.25	200000	
K	39	2	He	7195.024	7195.024	1.89	3894845	0.18	200000	
Mn	55	2	He	76.353	76.353	1.71	239083	0.03	2000	
Co	59	2	He	48.729	48.729	2.00	296424	0.02	2000	
Ni	60	2	He	47.914	47.914	3.53	73411	0.07	2000	
Cu	63	2	He	49.275	49.275	1.61	188650	0.03	2000	
Zn	66	2	He	54.769	54.769	2.38	40163	0.14	2000	
Al	27	2	He	113.011	113.011	2.41	29765	0.38	2000	
B	11	1	No Gas	35.528	35.528	2.84	62478	0.06	2000	
Al	27	1	No Gas	121.217	121.217	0.54	1271929	0.01	2000	
Si	28	1	No Gas	12050.055	12050.055	1.60	66560887	0.02	2000	>LDR
Ag	107	1	No Gas	49.241	49.241	1.10	525421	0.01	2000	
Cd	111	1	No Gas	50.544	50.544	0.37	104187	0.05	2000	
Sr	88	1	No Gas	389.284	389.284	1.53	8545580	0.00	2000	
Mo	95	1	No Gas	51.811	51.811	0.81	234543	0.02	2000	
Sn	118	1	No Gas	0.272	0.272	9.58	2287	0.01	2000	
Sb	121	1	No Gas	49.492	49.492	3.91	497531	0.01	2000	
Ba	137	1	No Gas	244.421	244.421	0.89	861231	0.03	2000	
Tl	205	1	No Gas	41.734	41.734	3.77	642149	0.01	2000	
Tl	203	1	No Gas	41.671	41.671	4.66	266588	0.02	2000	
Pb	208	1	No Gas	52.231	52.231	3.57	1129592	0.00	2000	
U	238	1	No Gas	0.031	0.031	20.95	827	0.00	2000	
Ca	43	2	He	19478.455	19478.455	0.97	30688	63.47	200000	
Sb	121	2	He	49.110	49.110	2.41	173173	0.03	2000	
Ti	47	2	He	57.499	57.499	5.18	8513	0.68	2000	
Cu	63	1	No Gas	62.382	62.382	3.71	526173	0.01	2000	
Zn	66	1	No Gas	55.373	55.373	3.16	134416	0.04	2000	
Se	82	1	No Gas	38.601	38.601	5.67	6276	0.62	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	569347	2.49	502306	113.35	70	120	
Ge	72	2	He	380524	1.65	381710	99.69	70	120	
Ge	72	1	No Gas	1648912	3.67	1672653	98.58	70	120	
In	115	1	No Gas	1722608	0.62	1872489	92.00	70	120	
Bi	209	1	No Gas	1281698	4.50	1449392	88.43	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01SD
Data File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:07:10-05:00
Sample Type	Sample
Dilution	500
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	0.371	185.607	28.22	37608	0.00	2000	
Be	9	1	No Gas	-0.001	-0.646	-88.98	28	0.00	2000	
V	51	2	He	0.850	424.808	4.72	5909	0.01	2000	
Cr	52	2	He	0.139	69.707	75.65	6268	0.00	2000	
Fe	56	2	He	3.190	1594.822	4.92	27612	0.01	200000	
Se	78	2	He	-0.016	-8.116	-2866.07	81	-0.02	2000	
As	75	2	He	0.063	31.738	115.52	179	0.04	2000	
Ca	44	2	He	27.911	13955.411	20.65	1173	2.38	200000	
Na	23	2	He	1792.488	896244.018	1.50	1330451	0.13	200000	
Mg	24	2	He	42.062	21030.973	1.78	18099	0.23	200000	
K	39	2	He	-0.753	-376.577	-146.21	94421	0.00	200000	
Mn	55	2	He	-0.011	-5.329	-539.40	1853	0.00	2000	
Co	59	2	He	-0.016	-8.084	-62.68	240	-0.01	2000	
Ni	60	2	He	0.023	11.723	98.63	180	0.01	2000	
Cu	63	2	He	0.074	37.099	28.93	897	0.01	2000	
Zn	66	2	He	-0.055	-27.397	-87.60	423	-0.01	2000	
Al	27	2	He	1.826	913.241	15.12	1063	0.17	2000	
B	11	1	No Gas	-0.333	-166.626	-34.26	8323	0.00	2000	
Al	27	1	No Gas	1.769	884.330	3.66	41148	0.00	2000	
Si	28	1	No Gas	29.107	14553.642	5.28	479902	0.01	2000	
Ag	107	1	No Gas	0.000	-0.216	-1114.89	173	0.00	2000	
Cd	111	1	No Gas	0.000	-0.074	-6139.51	20	0.00	2000	
Sr	88	1	No Gas	0.808	404.155	3.18	20045	0.00	2000	
Mo	95	1	No Gas	0.019	9.350	72.47	227	0.01	2000	
Sn	118	1	No Gas	0.009	4.479	205.75	643	0.00	2000	
Sb	121	1	No Gas	0.010	4.940	40.68	283	0.00	2000	
Ba	137	1	No Gas	0.376	187.977	6.42	1643	0.02	2000	
Tl	205	1	No Gas	-0.015	-7.478	-66.65	1567	0.00	2000	
Tl	203	1	No Gas	-0.008	-4.129	-191.25	750	0.00	2000	
Pb	208	1	No Gas	-0.001	-0.667	-388.58	827	0.00	2000	
U	238	1	No Gas	0.001	0.359	438.10	223	0.00	2000	
Ca	43	2	He	32.726	16362.917	60.80	97	33.85	200000	
Sb	121	2	He	0.017	8.647	78.85	97	0.02	2000	
Ti	47	2	He	0.088	43.925	173.21	13	0.66	2000	
Cu	63	1	No Gas	0.078	39.104	25.53	2197	0.00	2000	
Zn	66	1	No Gas	0.089	44.279	67.95	1627	0.01	2000	
Se	82	1	No Gas	0.571	285.430	44.59	175	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	557257	0.65	502306	110.94	70	120	
Ge	72	2	He	389950	0.32	381710	102.16	70	120	
Ge	72	1	No Gas	1750309	1.98	1672653	104.64	70	120	
In	115	1	No Gas	1891898	1.22	1872489	101.04	70	120	

Sample Report

Bi	209	1	No Gas	1451141	3.10	1449392	100.12	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01PDS
Data File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:09:08-05:00
Sample Type	Sample
Dilution	100
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	0.722	72.223	8.19	38872	0.00	2000	
Be	9	1	No Gas	94.309	9430.857	3.63	215134	0.04	2000	
V	51	2	He	96.842	9684.190	1.69	400694	0.02	2000	
Cr	52	2	He	96.134	9613.357	1.22	446976	0.02	2000	
Fe	56	2	He	9974.908	997490.754	1.71	37122186	0.03	200000	
Se	78	2	He	97.739	9773.905	5.28	5557	1.76	2000	
As	75	2	He	98.814	9881.399	1.72	61673	0.16	2000	
Ca	44	2	He	9895.934	989593.440	1.98	270590	3.66	200000	
Na	23	2	He	17881.566	1788156.575	1.65	12772710	0.14	200000	
Mg	24	2	He	10152.318	1015231.807	3.39	4264029	0.24	200000	
K	39	2	He	9778.735	977873.516	2.80	5419073	0.18	200000	
Mn	55	2	He	96.808	9680.751	1.31	311825	0.03	2000	
Co	59	2	He	97.510	9750.990	2.90	610719	0.02	2000	
Ni	60	2	He	97.456	9745.598	2.98	153704	0.06	2000	
Cu	63	2	He	98.805	9880.536	1.86	389126	0.03	2000	
Zn	66	2	He	100.023	10002.346	2.02	75192	0.13	2000	
Al	27	2	He	98.627	9862.656	2.91	26836	0.37	2000	
B	11	1	No Gas	-0.150	-15.019	-128.63	8301	0.00	2000	
Al	27	1	No Gas	102.676	10267.552	4.62	1136460	0.01	2000	
Si	28	1	No Gas	124.541	12454.145	1.88	1028044	0.01	2000	
Ag	107	1	No Gas	99.236	9923.574	0.39	1144684	0.01	2000	
Cd	111	1	No Gas	99.341	9934.141	0.84	221377	0.04	2000	
Sr	88	1	No Gas	3.865	386.483	2.79	92274	0.00	2000	
Mo	95	1	No Gas	98.050	9805.046	0.55	479791	0.02	2000	
Sn	118	1	No Gas	0.010	1.010	157.34	640	0.00	2000	
Sb	121	1	No Gas	93.408	9340.804	2.61	988472	0.01	2000	
Ba	137	1	No Gas	100.761	10076.066	0.82	383999	0.03	2000	
Tl	205	1	No Gas	103.194	10319.425	1.36	1819999	0.01	2000	
Tl	203	1	No Gas	103.632	10363.173	0.45	760011	0.01	2000	
Pb	208	1	No Gas	97.624	9762.433	1.10	2422453	0.00	2000	
U	238	1	No Gas	0.006	0.649	9.02	367	0.00	2000	
Ca	43	2	He	9686.220	968622.038	3.42	15743	61.53	200000	
Sb	121	2	He	94.047	9404.654	2.35	341657	0.03	2000	
Ti	47	2	He	101.418	10141.767	2.70	15472	0.66	2000	
Cu	63	1	No Gas	100.714	10071.368	1.23	893548	0.01	2000	
Zn	66	1	No Gas	99.259	9925.919	2.31	252537	0.04	2000	
Se	82	1	No Gas	100.570	10056.952	2.68	17103	0.59	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	538462	0.92	502306	107.20	70	120	
Ge	72	2	He	392057	1.79	381710	102.71	70	120	
Ge	72	1	No Gas	1734849	1.51	1672653	103.72	70	120	
In	115	1	No Gas	1862464	1.02	1872489	99.46	70	120	

Sample Report

Bi	209	1	No Gas	1469675	2.00	1449392	101.40	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	043_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:11:03-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	100.721	1.611	737528	0.43	100	100.7	90	110	
Be	9	1	No Gas	99.377	1.767	219720	0.99	100	99.4	90	110	
V	51	2	He	99.205	0.592	409516	0.55	100	99.2	90	110	
Cr	52	2	He	98.639	1.065	457452	1.08	100	98.6	90	110	
Fe	56	2	He	10147.997	1.613	37685288	1.59	10000	101.5	90	110	
Se	78	2	He	98.590	3.173	5594	3.31	100	98.6	90	110	
As	75	2	He	100.055	1.369	62304	1.55	100	100.1	90	110	
Ca	44	2	He	10050.667	1.683	274233	1.69	10000	100.5	90	110	
Na	23	2	He	10060.574	0.661	7198301	0.80	10000	100.6	90	110	
Mg	24	2	He	9861.363	1.111	4133351	1.21	10000	98.6	90	110	
K	39	2	He	9976.352	0.538	5515496	0.70	10000	99.8	90	110	
Mn	55	2	He	98.019	1.064	315013	1.19	100	98.0	90	110	
Co	59	2	He	98.096	2.453	613124	2.56	100	98.1	90	110	
Ni	60	2	He	101.332	1.324	159490	1.52	100	101.3	90	110	
Cu	63	2	He	99.585	1.713	391354	1.85	100	99.6	90	110	
Zn	66	2	He	101.007	1.588	75761	1.43	100	101.0	90	110	
Al	27	2	He	100.628	1.299	27314	1.15	100	100.6	90	110	
B	11	1	No Gas	503.558	1.821	703156	0.29	500	100.7	90	110	
Al	27	1	No Gas	105.968	0.753	1136062	1.44	100	106.0	90	110	
Si	28	1	No Gas	532.577	1.790	3284485	3.00	5000	10.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.291	2.832	1147657	2.38	100	99.3	90	110	
Cd	111	1	No Gas	101.780	1.380	227283	0.70	100	101.8	90	110	
Sr	88	1	No Gas	103.310	0.776	2457686	0.27	100	103.3	90	110	
Mo	95	1	No Gas	101.311	0.801	496785	1.04	100	101.3	90	110	
Sn	118	1	No Gas	100.960	1.082	709574	1.51	100	101.0	90	110	
Sb	121	1	No Gas	102.414	1.388	1050058	1.17	100	102.4	90	110	
Ba	137	1	No Gas	100.377	1.380	383331	1.60	100	100.4	90	110	
Tl	205	1	No Gas	95.447	3.597	1679603	1.12	100	95.4	90	110	
Tl	203	1	No Gas	97.339	3.191	712334	0.66	100	97.3	90	110	
Pb	208	1	No Gas	100.901	3.212	2498459	1.09	100	100.9	90	110	
U	238	1	No Gas	101.183	3.630	2431578	1.03	100	101.2	90	110	
Ca	43	2	He	9983.178	3.013	16190	3.19	10000	99.8	90	110	
Sb	121	2	He	99.728	0.714	361535	0.91	100	99.7	90	110	
Ti	47	2	He	102.988	0.428	15679	0.61	100	103.0	90	110	
Cu	63	1	No Gas	104.621	1.983	899083	0.52	100	104.6	90	110	
Se	82	1	No Gas	103.507	3.519	17043	2.06	100	103.5	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	521892	1.98	502306	103.90	70	120	
Ge	72	2	He	391141	0.19	381710	102.47	70	120	
Ge	72	1	No Gas	1680630	1.48	1672653	100.48	70	120	
In	115	1	No Gas	1866461	1.05	1872489	99.68	70	120	
Bi	209	1	No Gas	1467157	2.61	1449392	101.23	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	044_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:12:57-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	0.101	50.8	34457	0.4	0.5	
Be	9	1	No Gas	0.024	41.6	85	25.6	0.5	
V	51	2	He	-0.186	-17.6	1668	7.8	2.5	
Cr	52	2	He	0.042	89.9	5811	2.8	2.5	
Fe	56	2	He	2.234	14.0	24028	4.6	100	
Se	78	2	He	0.189	135.7	93	15.6	2	
As	75	2	He	-0.017	-237.2	129	19.4	2.5	
Ca	44	2	He	-1.534	-175.4	373	19.7	100	
Na	23	2	He	20.603	7.2	77488	1.3	100	
Mg	24	2	He	1.783	12.1	1267	7.1	100	
K	39	2	He	-1.636	-147.0	93764	1.2	100	
Mn	55	2	He	-0.107	-24.6	1543	5.5	2.5	
Co	59	2	He	0.015	32.9	433	7.1	2.5	
Ni	60	2	He	-0.021	-133.4	110	39.6	2.5	
Cu	63	2	He	0.028	96.1	713	14.4	2	
Zn	66	2	He	-0.094	-77.6	393	14.0	2.5	
Al	27	2	He	0.308	84.1	660	10.6	5	
B	11	1	No Gas	3.234	9.7	13148	2.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.323	19.7	25243	1.8	5	
Si	28	1	No Gas	2.202	53.7	322085	1.9	10	
Ag	107	1	No Gas	0.012	13.7	323	8.9	2.5	
Cd	111	1	No Gas	0.014	102.5	52	61.2	1	
Sr	88	1	No Gas	0.010	9.8	817	6.0	2.5	
Mo	95	1	No Gas	0.099	17.6	637	13.5	2.5	
Sn	118	1	No Gas	0.105	18.7	1350	10.2	5	
Sb	121	1	No Gas	0.228	10.1	2600	8.1	2.5	
Ba	137	1	No Gas	0.001	723.0	197	19.3	2.5	
Tl	205	1	No Gas	0.799	33.6	15774	29.1	1	
Tl	203	1	No Gas	0.790	29.5	6549	25.2	1	
Pb	208	1	No Gas	0.015	36.4	1233	10.0	2.5	
U	238	1	No Gas	0.025	22.1	810	16.1	2.5	
Ca	43	2	He	-4.443	-160.8	37	31.5	100	
Sb	121	2	He	0.218	13.9	820	13.2	2.5	
Ti	47	2	He	0.022	173.2	3	173.2	2.5	
Cu	63	1	No Gas	0.010	76.2	1583	2.6	2.5	
Se	82	1	No Gas	0.336	60.9	135	24.0	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	539652	1.16	502306	107.43	70	120	
Ge	72	2	He	389207	0.24	381710	101.96	70	120	
Ge	72	1	No Gas	1746243	2.34	1672653	104.40	70	120	
In	115	1	No Gas	1923531	3.18	1872489	102.73	70	120	
Bi	209	1	No Gas	1457904	1.89	1449392	100.59	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	054_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:32:41-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	101.405	1.961	735371	1.10	100	101.4	90	110	
Be	9	1	No Gas	99.996	2.064	219020	1.25	100	100.0	90	110	
V	51	2	He	99.386	2.587	412340	2.16	100	99.4	90	110	
Cr	52	2	He	99.351	2.076	463059	1.69	100	99.4	90	110	
Fe	56	2	He	10207.331	1.208	38099764	0.95	10000	102.1	90	110	
Se	78	2	He	99.090	0.065	5651	0.44	100	99.1	90	110	
As	75	2	He	99.372	1.458	62196	1.37	100	99.4	90	110	
Ca	44	2	He	10226.119	1.359	280440	1.07	10000	102.3	90	110	
Na	23	2	He	10166.654	0.452	7310966	0.77	10000	101.7	90	110	
Mg	24	2	He	10207.833	0.687	4300455	0.27	10000	102.1	90	110	
K	39	2	He	9948.996	2.217	5528680	1.93	10000	99.5	90	110	
Mn	55	2	He	100.179	1.963	323552	1.58	100	100.2	90	110	
Co	59	2	He	100.410	0.660	630813	1.08	100	100.4	90	110	
Ni	60	2	He	101.118	0.019	159969	0.42	100	101.1	90	110	
Cu	63	2	He	101.617	0.771	401372	0.68	100	101.6	90	110	
Zn	66	2	He	102.045	1.386	76931	1.51	100	102.0	90	110	
Al	27	2	He	101.050	0.672	27568	1.01	100	101.0	90	110	
B	11	1	No Gas	508.591	1.817	703485	0.94	500	101.7	90	110	
Al	27	1	No Gas	108.191	1.949	1167250	2.03	100	108.2	90	110	
Si	28	1	No Gas	527.992	2.135	3280062	1.81	5000	10.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.990	2.763	1165138	2.27	100	100.0	90	110	
Cd	111	1	No Gas	100.520	2.180	226290	1.54	100	100.5	90	110	
Sr	88	1	No Gas	104.961	1.432	2517475	1.95	100	105.0	90	110	
Mo	95	1	No Gas	102.242	0.413	505427	0.53	100	102.2	90	110	
Sn	118	1	No Gas	101.962	1.811	722392	1.51	100	102.0	90	110	
Sb	121	1	No Gas	102.475	2.793	1057723	2.32	100	102.5	90	110	
Ba	137	1	No Gas	101.833	1.467	392029	0.85	100	101.8	90	110	
Tl	205	1	No Gas	95.612	0.571	1712720	1.76	100	95.6	90	110	
Tl	203	1	No Gas	96.649	0.997	719906	1.41	100	96.6	90	110	
Pb	208	1	No Gas	101.600	0.255	2560633	1.21	100	101.6	90	110	
U	238	1	No Gas	99.956	1.854	2444815	0.65	100	100.0	90	110	
Ca	43	2	He	10510.128	2.994	17128	2.57	10000	105.1	90	110	
Sb	121	2	He	101.759	0.683	370798	1.06	100	101.8	90	110	
Ti	47	2	He	99.589	4.221	15239	4.02	100	99.6	90	110	
Cu	63	1	No Gas	104.287	0.696	902391	0.74	100	104.3	90	110	
Se	82	1	No Gas	102.110	0.504	16933	0.88	100	102.1	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	516962	0.89	502306	102.92	70	120	
Ge	72	2	He	393153	0.43	381710	103.00	70	120	
Ge	72	1	No Gas	1691883	0.49	1672653	101.15	70	120	
In	115	1	No Gas	1881613	0.66	1872489	100.49	70	120	
Bi	209	1	No Gas	1492543	1.32	1449392	102.98	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	055_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:34:35-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	-0.288	-40.7	31915	2.6	0.5	
Be	9	1	No Gas	0.016	55.1	67	30.3	0.5	
V	51	2	He	-0.122	-19.1	1956	3.9	2.5	
Cr	52	2	He	0.014	659.7	5761	6.2	2.5	
Fe	56	2	He	1.685	5.9	22309	1.5	100	
Se	78	2	He	0.082	284.1	88	15.9	2	
As	75	2	He	-0.018	-127.9	130	11.8	2.5	
Ca	44	2	He	-1.859	-91.1	370	14.0	100	
Na	23	2	He	-8.018	-3.4	58101	1.5	100	
Mg	24	2	He	1.110	10.7	1000	5.3	100	
K	39	2	He	-11.411	-16.3	89723	0.8	100	
Mn	55	2	He	-0.192	-6.1	1290	4.1	2.5	
Co	59	2	He	-0.004	-106.9	320	8.3	2.5	
Ni	60	2	He	-0.029	-94.6	100	43.6	2.5	
Cu	63	2	He	-0.005	-347.9	593	11.0	2	
Zn	66	2	He	-0.244	-31.2	287	21.3	2.5	
Al	27	2	He	0.138	123.1	623	6.7	5	
B	11	1	No Gas	2.699	5.8	12491	1.3	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.729	5.8	29559	2.0	5	
Si	28	1	No Gas	0.775	151.0	312412	1.4	10	
Ag	107	1	No Gas	0.007	101.0	260	30.5	2.5	
Cd	111	1	No Gas	0.003	178.3	27	43.3	1	
Sr	88	1	No Gas	0.012	20.0	857	7.6	2.5	
Mo	95	1	No Gas	0.106	42.0	670	32.3	2.5	
Sn	118	1	No Gas	0.090	9.2	1240	5.6	5	
Sb	121	1	No Gas	0.097	11.0	1210	8.3	2.5	
Ba	137	1	No Gas	0.003	274.7	203	17.3	2.5	
Tl	205	1	No Gas	0.928	25.9	18625	27.4	1	
Tl	203	1	No Gas	0.885	32.9	7493	33.2	1	
Pb	208	1	No Gas	0.008	62.8	1093	9.8	2.5	
U	238	1	No Gas	0.024	36.1	813	29.5	2.5	
Ca	43	2	He	-8.778	-72.8	30	33.3	100	
Sb	121	2	He	0.099	18.9	397	18.6	2.5	
Ti	47	2	He	0.021	173.2	3	173.2	2.5	
Cu	63	1	No Gas	-0.023	-55.1	1280	6.9	2.5	
Se	82	1	No Gas	0.102	442.7	95	80.4	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	544213	0.77	502306	108.34	70	120	
Ge	72	2	He	394711	1.49	381710	103.41	70	120	
Ge	72	1	No Gas	1738755	2.13	1672653	103.95	70	120	
In	115	1	No Gas	1918645	1.13	1872489	102.46	70	120	
Bi	209	1	No Gas	1494823	4.16	1449392	103.13	70	120	

Sample Report

Sample Table

Sample Name	LCS-199483
Data File Name	059SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:42:22-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	11.392	11.392	2.11	118489	0.01	2000	
Be	9	1	No Gas	50.604	50.604	2.76	118013	0.04	2000	
V	51	2	He	52.141	52.141	0.88	216547	0.02	2000	
Cr	52	2	He	52.698	52.698	1.83	247176	0.02	2000	
Fe	56	2	He	5323.015	5323.015	2.12	19786900	0.03	200000	
Se	78	2	He	53.433	53.433	2.83	3071	1.74	2000	
As	75	2	He	53.128	53.128	2.71	33165	0.16	2000	
Ca	44	2	He	5270.232	5270.232	1.36	144093	3.66	200000	
Na	23	2	He	5380.776	5380.776	0.19	3882297	0.14	200000	
Mg	24	2	He	5486.426	5486.426	2.59	2301350	0.24	200000	
K	39	2	He	5297.959	5297.959	1.27	2975739	0.18	200000	
Mn	55	2	He	52.556	52.556	1.31	169915	0.03	2000	
Co	59	2	He	53.016	53.016	1.08	331793	0.02	2000	
Ni	60	2	He	53.273	53.273	2.43	83962	0.06	2000	
Cu	63	2	He	53.722	53.722	1.24	211539	0.03	2000	
Zn	66	2	He	55.476	55.476	1.65	41848	0.13	2000	
Al	27	2	He	59.507	59.507	4.55	16397	0.36	2000	
B	11	1	No Gas	57.718	57.718	2.53	92707	0.06	2000	
Al	27	1	No Gas	60.917	60.917	2.59	683843	0.01	2000	
Si	28	1	No Gas	156.151	156.151	0.61	1212383	0.01	2000	
Ag	107	1	No Gas	53.140	53.140	1.12	630903	0.01	2000	
Cd	111	1	No Gas	53.133	53.133	0.60	121862	0.04	2000	
Sr	88	1	No Gas	12.452	12.452	1.15	304692	0.00	2000	
Mo	95	1	No Gas	50.924	50.924	1.45	256504	0.02	2000	
Sn	118	1	No Gas	11.780	11.780	0.72	85538	0.01	2000	
Sb	121	1	No Gas	52.683	52.683	2.77	558124	0.01	2000	
Ba	137	1	No Gas	52.364	52.364	1.96	205453	0.03	2000	
Tl	205	1	No Gas	45.951	45.951	1.66	831614	0.01	2000	
Tl	203	1	No Gas	46.305	46.305	1.63	348503	0.01	2000	
Pb	208	1	No Gas	53.672	53.672	2.37	1365308	0.00	2000	
U	238	1	No Gas	93.437	93.437	3.39	2306243	0.00	2000	
Ca	43	2	He	5352.287	5352.287	3.63	8706	61.48	200000	
Sb	121	2	He	51.934	51.934	1.72	188405	0.03	2000	
Ti	47	2	He	54.833	54.833	2.31	8353	0.66	2000	
Cu	63	1	No Gas	54.943	54.943	2.01	488589	0.01	2000	
Zn	66	1	No Gas	55.219	55.219	1.91	141268	0.04	2000	
Se	82	1	No Gas	52.387	52.387	6.16	8952	0.59	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	550412	1.44	502306	109.58	70	120	
Ge	72	2	He	391442	1.35	381710	102.55	70	120	
Ge	72	1	No Gas	1736724	2.06	1672653	103.83	70	120	
In	115	1	No Gas	1916625	0.64	1872489	102.36	70	120	

Sample Report

Bi	209	1	No Gas	1506439	2.03	1449392	103.94	70	120	

Sample Report

Sample Table

Sample Name	HS23081040-01
Data File Name	060SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:44:19-05:00
Sample Type	Sample
Dilution	20
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	1.746	34.923	1.60	47246	0.00	2000	
Be	9	1	No Gas	0.030	0.608	34.23	102	0.03	2000	
V	51	2	He	-0.091	-1.816	-52.87	2062	0.00	2000	
Cr	52	2	He	0.135	2.697	24.86	6255	0.00	2000	
Fe	56	2	He	31.544	630.881	2.92	132654	0.02	200000	
Se	78	2	He	0.139	2.774	125.21	90	0.15	2000	
As	75	2	He	-0.005	-0.095	-495.19	137	0.00	2000	
Ca	44	2	He	2847.505	56950.108	4.05	77807	3.66	200000	
Na	23	2	He	14326.250	286524.999	3.49	10199569	0.14	200000	
Mg	24	2	He	2143.687	42873.749	1.43	897070	0.24	200000	
K	39	2	He	51.043	1020.863	18.23	122560	0.04	200000	
Mn	55	2	He	15.012	300.236	3.33	49734	0.03	2000	
Co	59	2	He	0.285	5.707	6.61	2120	0.01	2000	
Ni	60	2	He	0.748	14.952	12.23	1317	0.06	2000	
Cu	63	2	He	0.432	8.640	6.25	2300	0.02	2000	
Zn	66	2	He	1.358	27.153	19.42	1473	0.09	2000	
Al	27	2	He	4.653	93.061	25.54	1810	0.26	2000	
B	11	1	No Gas	2.258	45.152	12.14	11977	0.02	2000	
Al	27	1	No Gas	4.822	96.438	2.27	73753	0.01	2000	
Si	28	1	No Gas	1023.996	20479.916	3.52	6215600	0.02	2000	
Ag	107	1	No Gas	0.009	0.172	104.51	280	0.00	2000	
Cd	111	1	No Gas	0.014	0.282	69.53	52	0.03	2000	
Sr	88	1	No Gas	54.529	1090.590	3.39	1319339	0.00	2000	
Mo	95	1	No Gas	0.159	3.182	12.51	927	0.02	2000	
Sn	118	1	No Gas	0.050	1.004	10.01	940	0.01	2000	
Sb	121	1	No Gas	0.152	3.037	13.05	1777	0.01	2000	
Ba	137	1	No Gas	25.030	500.608	3.36	97334	0.03	2000	
Tl	205	1	No Gas	0.969	19.372	30.39	19293	0.01	2000	
Tl	203	1	No Gas	0.960	19.204	29.86	8013	0.01	2000	
Pb	208	1	No Gas	0.031	0.623	5.29	1670	0.00	2000	
U	238	1	No Gas	0.123	2.467	4.04	3230	0.00	2000	
Ca	43	2	He	2827.394	56547.885	7.16	4604	61.41	200000	
Sb	121	2	He	0.146	2.914	23.23	560	0.03	2000	
Ti	47	2	He	0.088	1.757	43.63	13	0.66	2000	
Cu	63	1	No Gas	0.585	11.702	5.13	6652	0.01	2000	
Zn	66	1	No Gas	1.428	28.550	4.97	4988	0.03	2000	
Se	82	1	No Gas	0.759	15.175	35.97	205	0.37	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	549835	0.86	502306	109.46	70	120	
Ge	72	2	He	390397	1.91	381710	102.28	70	120	
Ge	72	1	No Gas	1730307	1.81	1672653	103.45	70	120	
In	115	1	No Gas	1898393	2.15	1872489	101.38	70	120	

Sample Report

Bi	209	1	No Gas	1492917	2.49	1449392	103.00	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	061_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:46:16-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	97.778	2.346	743286	2.25	100	97.8	90	110	
Be	9	1	No Gas	96.968	1.436	222274	1.34	100	97.0	90	110	
V	51	2	He	99.987	0.584	408771	1.13	100	100.0	90	110	
Cr	52	2	He	100.734	0.766	462575	1.35	100	100.7	90	110	
Fe	56	2	He	10194.357	1.096	37495455	1.66	10000	101.9	90	110	
Se	78	2	He	101.441	2.403	5697	1.76	100	101.4	90	110	
As	75	2	He	100.765	0.649	62140	0.28	100	100.8	90	110	
Ca	44	2	He	10359.859	0.308	279940	0.55	10000	103.6	90	110	
Na	23	2	He	10113.689	1.502	7166789	2.01	10000	101.1	90	110	
Mg	24	2	He	10172.513	0.409	4222777	0.73	10000	101.7	90	110	
K	39	2	He	9892.280	0.794	5417086	0.17	10000	98.9	90	110	
Mn	55	2	He	100.406	0.223	319538	0.57	100	100.4	90	110	
Co	59	2	He	100.946	0.538	624858	0.70	100	100.9	90	110	
Ni	60	2	He	101.473	1.964	158186	2.52	100	101.5	90	110	
Cu	63	2	He	101.406	0.663	394674	1.24	100	101.4	90	110	
Zn	66	2	He	101.622	1.170	75490	1.47	100	101.6	90	110	
Al	27	2	He	103.383	3.247	27778	3.52	100	103.4	90	110	
B	11	1	No Gas	493.859	0.237	715156	0.12	500	98.8	90	110	
Al	27	1	No Gas	106.311	1.333	1153180	0.58	100	106.3	90	110	
Si	28	1	No Gas	517.326	1.679	3236522	1.55	5000	10.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.485	1.552	1150630	1.49	100	98.5	90	110	
Cd	111	1	No Gas	99.521	1.393	224629	1.23	100	99.5	90	110	
Sr	88	1	No Gas	103.532	1.905	2489443	2.02	100	103.5	90	110	
Mo	95	1	No Gas	101.464	0.527	502862	0.52	100	101.5	90	110	
Sn	118	1	No Gas	100.714	1.220	715389	1.01	100	100.7	90	110	
Sb	121	1	No Gas	101.985	1.438	1058276	2.13	100	102.0	90	110	
Ba	137	1	No Gas	99.544	2.087	384184	1.29	100	99.5	90	110	
Tl	205	1	No Gas	94.700	4.845	1677174	1.98	100	94.7	90	110	
Tl	203	1	No Gas	96.427	2.729	710443	0.28	100	96.4	90	110	
Pb	208	1	No Gas	101.627	2.366	2533736	1.45	100	101.6	90	110	
U	238	1	No Gas	101.680	1.510	2460881	1.61	100	101.7	90	110	
Ca	43	2	He	10270.454	1.012	16493	0.81	10000	102.7	90	110	
Sb	121	2	He	101.928	0.631	365964	1.10	100	101.9	90	110	
Ti	47	2	He	104.550	2.603	15763	2.12	100	104.6	90	110	
Cu	63	1	No Gas	104.181	1.149	906136	1.27	100	104.2	90	110	
Se	82	1	No Gas	102.069	0.975	17013	0.91	100	102.1	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	540971	0.14	502306	107.70	70	120	
Ge	72	2	He	387384	0.60	381710	101.49	70	120	
Ge	72	1	No Gas	1700796	1.88	1672653	101.68	70	120	
In	115	1	No Gas	1886439	0.84	1872489	100.74	70	120	
Bi	209	1	No Gas	1477077	2.99	1449392	101.91	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	062_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:48:09-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	-0.171	-8.7	34023	1.6	0.5	
Be	9	1	No Gas	0.015	39.1	67	18.9	0.5	
V	51	2	He	-0.205	-12.9	1578	7.5	2.5	
Cr	52	2	He	0.118	54.9	6101	3.9	2.5	
Fe	56	2	He	1.932	18.0	22686	3.5	100	
Se	78	2	He	0.489	88.0	108	19.6	2	
As	75	2	He	-0.007	-189.1	133	4.3	2.5	
Ca	44	2	He	-0.164	-256.1	407	3.8	100	
Na	23	2	He	-2.835	-52.3	60381	0.6	100	
Mg	24	2	He	1.845	9.6	1280	4.9	100	
K	39	2	He	-2.174	-166.4	92602	1.0	100	
Mn	55	2	He	-0.135	-23.1	1440	4.8	2.5	
Co	59	2	He	-0.006	-124.7	303	16.3	2.5	
Ni	60	2	He	-0.025	-41.7	103	14.8	2.5	
Cu	63	2	He	0.018	69.4	670	5.2	2	
Zn	66	2	He	-0.183	-89.3	323	35.8	2.5	
Al	27	2	He	0.167	137.6	617	9.4	5	
B	11	1	No Gas	3.098	20.6	13557	5.7	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.223	27.7	24155	1.9	5	
Si	28	1	No Gas	2.764	42.6	325333	0.4	10	
Ag	107	1	No Gas	0.011	38.8	303	16.9	2.5	
Cd	111	1	No Gas	0.007	161.7	36	71.6	1	
Sr	88	1	No Gas	0.023	33.3	1113	15.9	2.5	
Mo	95	1	No Gas	0.123	47.1	743	36.9	2.5	
Sn	118	1	No Gas	0.105	6.0	1333	4.8	5	
Sb	121	1	No Gas	0.130	10.9	1560	8.5	2.5	
Ba	137	1	No Gas	-0.005	-233.9	170	27.0	2.5	
Tl	205	1	No Gas	0.945	27.6	18972	28.6	1	
Tl	203	1	No Gas	0.947	30.6	7960	31.1	1	
Pb	208	1	No Gas	0.018	30.6	1357	13.1	2.5	
U	238	1	No Gas	0.031	21.6	990	20.6	2.5	
Ca	43	2	He	-16.721	-22.6	17	34.6	100	
Sb	121	2	He	0.099	16.8	387	14.2	2.5	
Ti	47	2	He	0.044	86.7	7	86.6	2.5	
Cu	63	1	No Gas	0.028	59.9	1750	10.5	2.5	
Se	82	1	No Gas	0.457	75.6	155	35.5	2	

QC ISTD Table

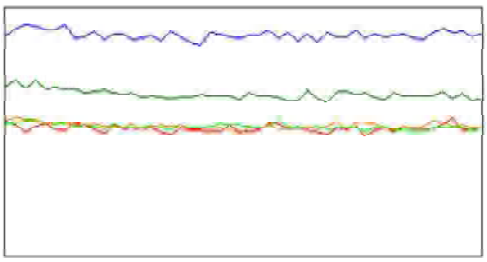
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	564986	1.57	502306	112.48	70	120	
Ge	72	2	He	385685	2.28	381710	101.04	70	120	
Ge	72	1	No Gas	1746272	2.10	1672653	104.40	70	120	
In	115	1	No Gas	1899414	1.49	1872489	101.44	70	120	
Bi	209	1	No Gas	1497957	3.62	1449392	103.35	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq. Date-Time	8/29/2023 9:46:46 AM
Report Comment	---
Instrument Name	G8421A SG18523544

[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	5000	2584	25838.92		
24	20000	10482	104824.46		
59	20000	17903	179026.93		
115	50000	26410	264103.82		
208	20000	13117	131166.78		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.800	5.000	
24	2.139	5.000	
59	2.048	5.000	
115	2.535	5.000	
208	2.937	5.000	

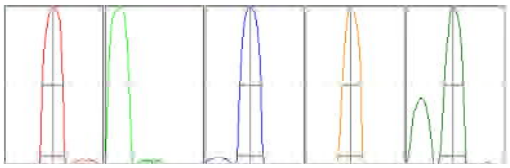
Mass	Background	Background (Required)	Background (Flag)
9	1.400		
24	1.600		
59	1.200		
115	1.000		
208	2.800		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.074 %
Doubly Charged	70 / 140 0.777 %

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	2592.97	9.00	8.90 - 9.10	
24	10232.54	23.95	23.90 - 24.10	
59	18046.04	58.90	58.90 - 59.10	
115	27008.08	114.90	114.90 - 115.10	
208	12867.60	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.742		
24	0.67	0.890		
59	0.62	0.781		
115	0.56	0.728		
208	0.58	0.781		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.57 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.4 V	Deflect	15.8 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-45 V
Omega Bias	-90 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	190 V		

QP Parameters

Mass Gain	134	Axis Gain	1.0005	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-0.9 mm

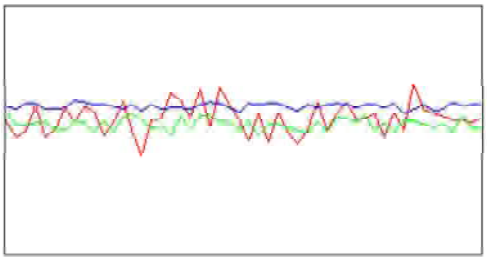
EM

Discriminator	4.7 mV	Analog HV	2967 V	Pulse HV	1613 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	200	110	1097.24		
24	1000	526	5255.18		
59	10000	5986	59860.74		

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

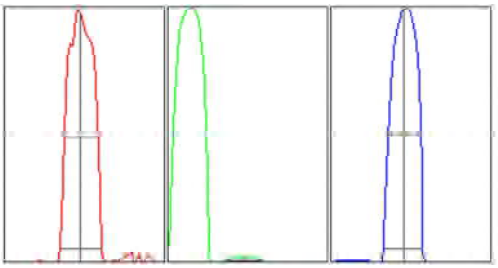
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	11.224	5.000	Fail
24	4.453	5.000	
59	1.842	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.200		
24	0.100		
59	0.100		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.413 %
Doubly Charged	70 / 140 1.004 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	111.76	8.95	8.90 - 9.10	
24	493.11	23.95	23.90 - 24.10	
59	5999.33	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.782		
24	0.68	0.783		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.61	0.739		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.57 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	1.0005	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-0.9 mm

EM

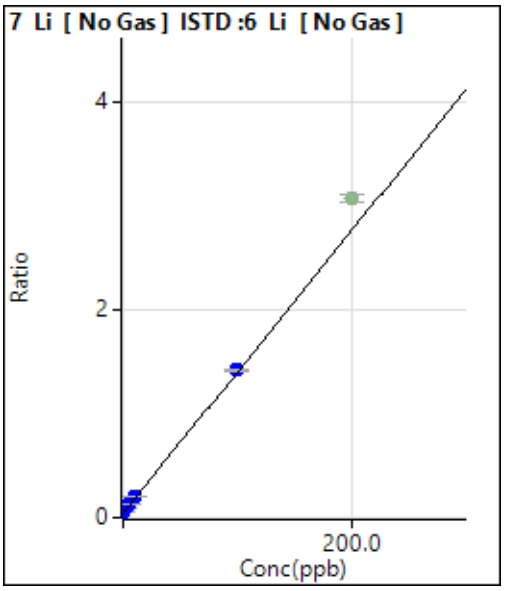
Discriminator	4.7 mV	Analog HV	2967 V	Pulse HV	1613 V

Calibration for 027_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\082823C.b\
Analysis File: 082823C.batch.bin
DA Date-Time: 8/28/2023 10:48:36 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	020CALB.d	CAL BLK	8/28/2023 5:35:21 PM
2	021CALS.d	2/10/200	8/28/2023 5:37:40 PM
3	022CALS.d	5/25/500	8/28/2023 5:39:59 PM
4	023CALS.d	10/50/100	8/28/2023 5:42:18 PM
5	024CALS.d	100/500/10K	8/28/2023 5:44:36 PM
6	025CALS.d	200/1000/20K	8/28/2023 5:46:52 PM

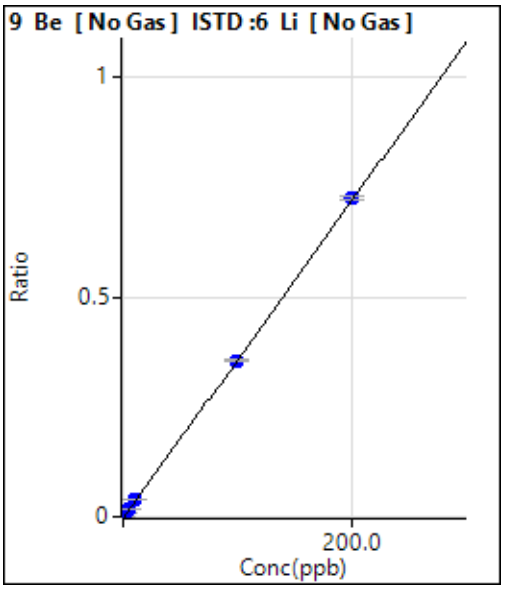
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19755.60	0.0597	P	1.2	
2	☐	2.000	2.155	29345.68	0.0890	P	0.7	7.8
3	☐	5.000	5.252	43431.88	0.1311	P	0.5	5.0
4	☐	10.000	10.735	67961.87	0.2057	P	2.1	7.4
5	☐	100.000	99.911	467265.77	1.4182	P	1.0	-0.1
6	☑	200.000		978234.75	3.0742	A	2.7	

y = 0.0136 * x + 0.0597
R = 1.0000
DL = 0.1641 ppb
BEC = 4.39 ppb

Weight: <None>
Min Conc: <None>

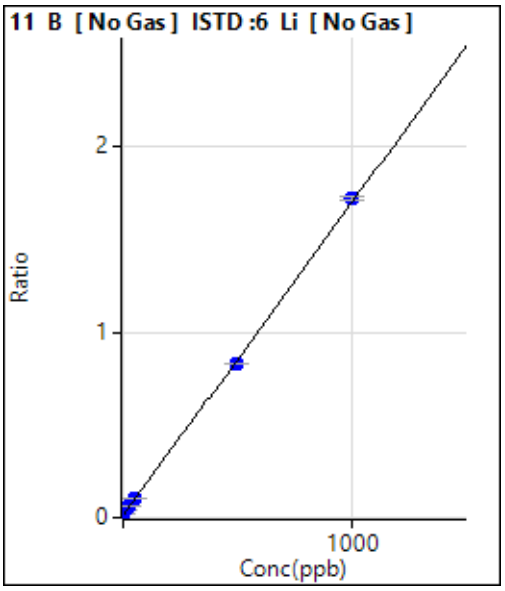


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41.67	0.0001	P	18.3	
2	☐	2.000	1.995	2418.57	0.0073	P	2.1	-0.3
3	☐	5.000	5.097	6144.72	0.0185	P	3.1	1.9
4	☐	10.000	10.358	12413.89	0.0376	P	1.8	3.6
5	☐	100.000	98.157	116931.70	0.3549	P	1.3	-1.8
6	☐	200.000	200.901	231113.10	0.7262	P	1.0	0.5

y = 0.0036 * x + 1.2589E-004
R = 0.9999
DL = 0.01916 ppb
BEC = 0.03483 ppb

Weight: <None>
Min Conc: <None>

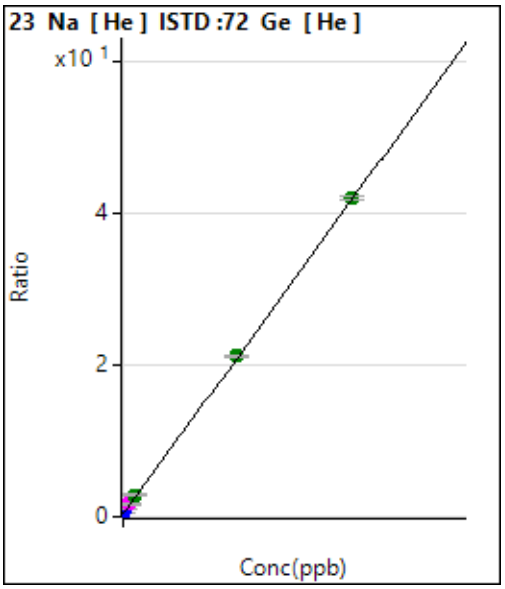
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7055.16	0.0213	P	4.0	
2	☐	10.000	9.761	12457.26	0.0378	P	3.3	-2.4
3	☐	25.000	25.984	21576.65	0.0651	P	0.9	3.9
4	☐	50.000	51.688	35849.13	0.1085	P	0.6	3.4
5	☐	500.000	480.849	274171.61	0.8321	P	0.8	-3.8
6	☐	1000.000	1009.469	548463.38	1.7234	P	0.7	0.9

y = 0.0017 * x + 0.0213
R = 0.9997
DL = 1.534 ppb
BEC = 12.64 ppb

Weight: <None>
Min Conc: <None>

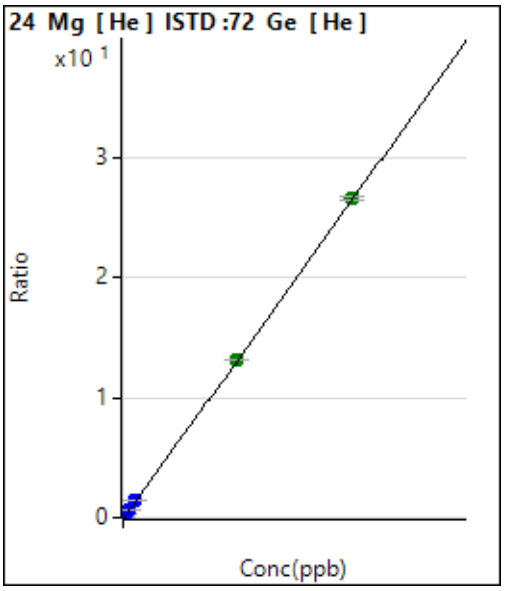


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	261740.41	0.5486	P	0.3	
2	☐	200.000	210.674	467344.97	0.9842	P	0.8	5.3
3	☐	500.000	542.713	799573.71	1.6707	M	4.9	8.5
4	☐	1000.000	1126.801	1378157.37	2.8783	A	2.1	12.7
5	☐	10000.00	9942.104	10194985.8	21.1039	A	1.1	-0.6
6	☐	20000.00	20021.43	19831536.7	41.9429	A	0.8	0.1

y = 0.0021 * x + 0.5486
R = 1.0000
DL = 2.693 ppb
BEC = 265.4 ppb

Weight: <None>
Min Conc: <None>

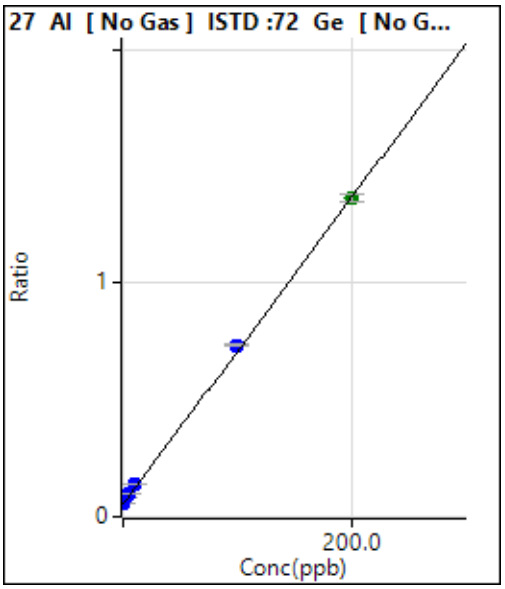
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1883.53	0.0039	P	9.0	
2	☐	200.000	202.338	129497.51	0.2727	P	1.5	1.2
3	☐	500.000	514.115	328718.16	0.6869	P	0.5	2.8
4	☐	1000.000	1031.823	658247.77	1.3746	P	0.9	3.2
5	☐	10000.00	9917.784	6366402.41	13.1783	A	0.3	-0.8
6	☐	20000.00	20039.14	12587801.4	26.6230	A	1.1	0.2

y = 0.0013 * x + 0.0039
R = 1.0000
DL = 0.8021 ppb
BEC = 2.971 ppb

Weight: <None>
Min Conc: <None>

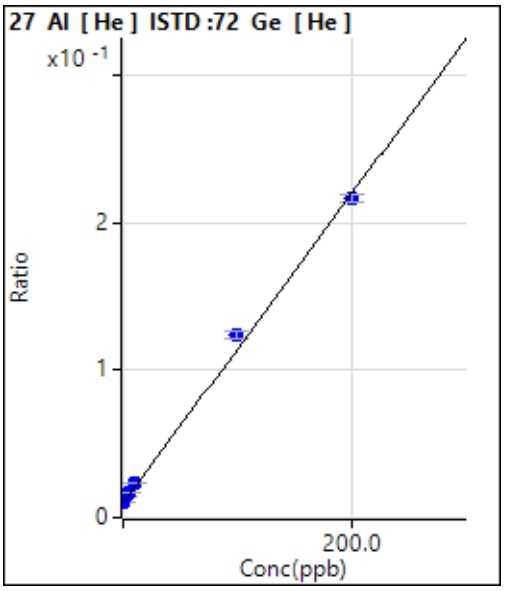


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54169.10	0.0607	P	0.6	
2	☐	2.000	3.501	75434.44	0.0837	P	1.0	75.1
3	☐	5.000	6.301	91634.47	0.1020	P	0.2	26.0
4	☐	10.000	11.520	121706.17	0.1363	P	0.7	15.2
5	☐	100.000	102.498	661379.65	0.7335	P	1.2	2.5
6	☐	200.000	198.628	1204452.87	1.3645	A	2.4	-0.7

y = 0.0066 * x + 0.0607
R = 0.9999
DL = 0.1688 ppb
BEC = 9.243 ppb

Weight: <None>
Min Conc: <None>

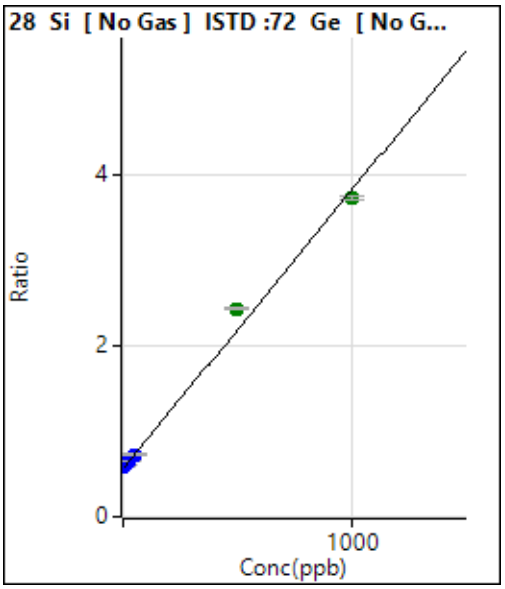
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5147.71	0.0108	P	1.8	
2	☐	2.000	3.526	6878.48	0.0145	P	6.9	76.3
3	☐	5.000	5.828	8089.17	0.0169	P	5.0	16.6
4	☐	10.000	11.703	11044.60	0.0231	P	1.8	17.0
5	☐	100.000	107.748	59818.84	0.1238	P	3.2	7.7
6	☐	200.000	196.005	102321.48	0.2164	P	2.0	-2.0

y = 0.0010 * x + 0.0108
R = 0.9990
DL = 0.5553 ppb
BEC = 10.29 ppb

Weight: <None>
Min Conc: <None>

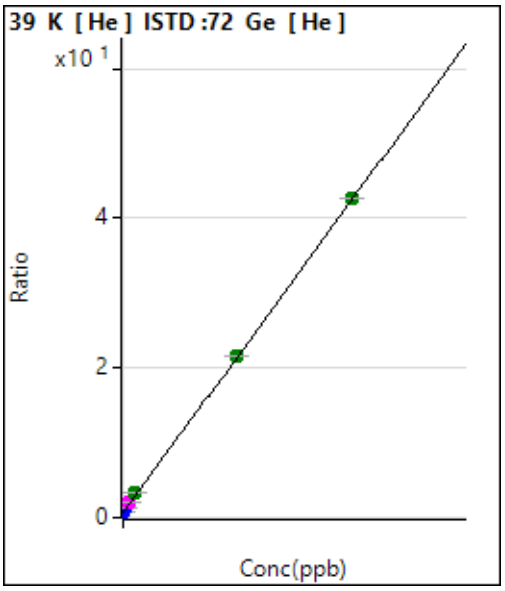


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520915.50	0.5835	P	0.2	
2	☐	10.000	6.954	546612.38	0.6062	P	0.0	-30.5
3	☐	25.000	20.171	583138.57	0.6493	P	0.4	-19.3
4	☐	50.000	44.489	650656.24	0.7287	P	1.0	-11.0
5	☐	500.000	568.406	2199211.06	2.4389	A	1.3	13.7
6	☐	1000.000	966.224	3298985.26	3.7374	A	1.2	-3.4

y = 0.0033 * x + 0.5835
R = 0.9965
DL = 1.178 ppb
BEC = 178.8 ppb

Weight: <None>
Min Conc: <None>

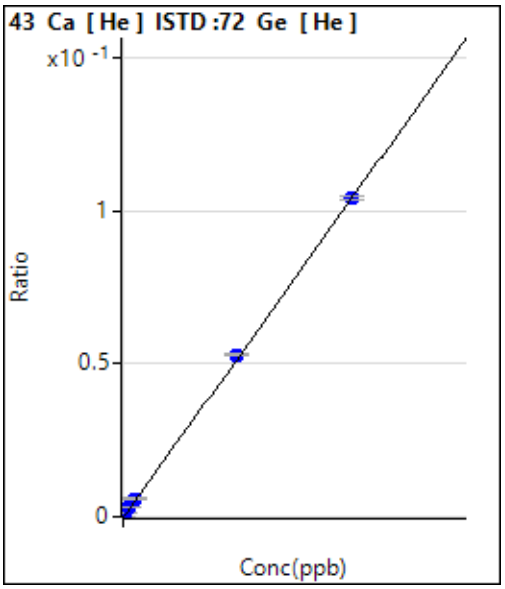
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426854.82	0.8948	P	0.8	
2	☐	200.000	199.994	623155.03	1.3123	P	1.1	0.0
3	☐	500.000	536.201	964039.07	2.0144	M	4.8	7.2
4	☐	1000.000	1137.562	1565955.44	3.2700	A	1.5	13.8
5	☐	10000.00	9948.123	10467148.5	21.6669	A	0.4	-0.5
6	☐	20000.00	20018.15	20186892.2	42.6935	A	0.4	0.1

y = 0.0021 * x + 0.8948
R = 1.0000
DL = 10.65 ppb
BEC = 428.5 ppb

Weight: <None>
Min Conc: <None>

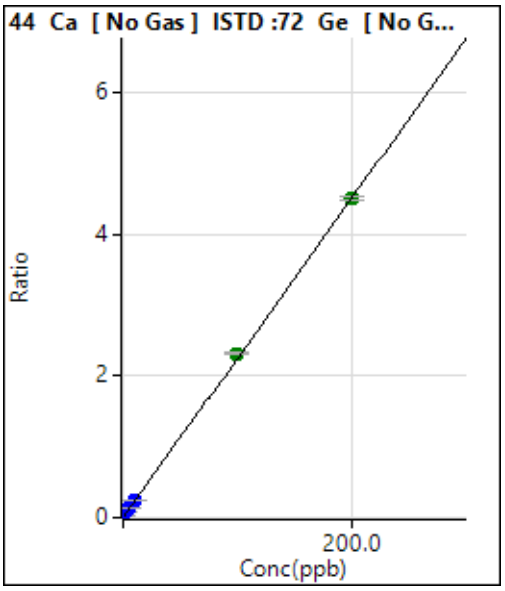


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.67	0.0001	P	22.6	
2	☐	200.000	240.602	663.36	0.0014	P	5.8	20.3
3	☐	500.000	549.065	1440.10	0.0030	P	4.4	9.8
4	☐	1000.000	1112.471	2850.35	0.0060	P	6.9	11.2
5	☐	10000.00	10128.99	25640.86	0.0531	P	1.9	1.3
6	☐	20000.00	19928.24	49308.64	0.1043	P	1.8	-0.4

y = 5.2260E-006 * x + 1.3966E-004
R = 1.0000
DL = 18.14 ppb
BEC = 26.72 ppb

Weight: <None>
Min Conc: <None>

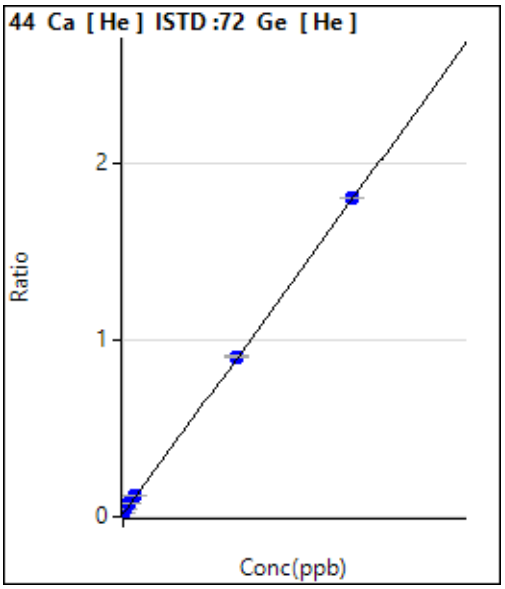
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22044.64	0.0247	P	1.0	
2	☐	2.000	2.018	63231.75	0.0701	P	2.9	0.9
3	☐	5.000	5.104	125387.77	0.1396	P	0.5	2.1
4	☐	10.000	10.294	229035.94	0.2565	P	0.5	2.9
5	☐	100.000	101.952	2092490.12	2.3205	A	0.7	2.0
6	☐	200.000	199.007	3977421.40	4.5060	A	0.8	-0.5

y = 0.0225 * x + 0.0247
R = 0.9999
DL = 0.03166 ppb
BEC = 1.097 ppb

Weight: <None>
Min Conc: <None>

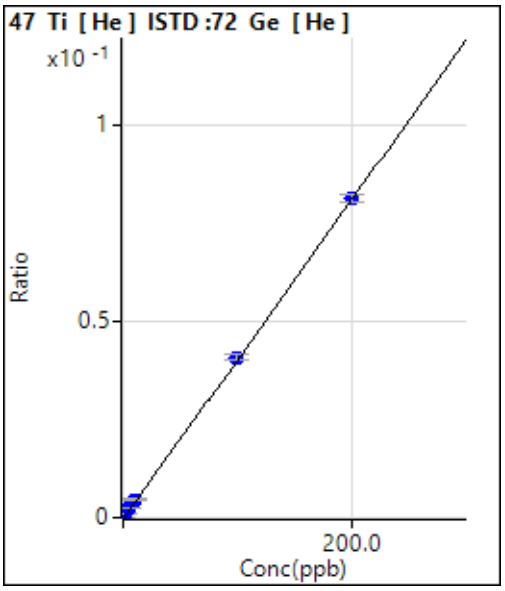


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11555.06	0.0242	P	0.4	
2	☐	200.000	223.406	20936.28	0.0441	P	0.6	11.7
3	☐	500.000	529.574	34132.63	0.0713	P	1.3	5.9
4	☐	1000.000	1082.095	57677.72	0.1205	P	2.4	8.2
5	☐	10000.00	9935.692	438599.86	0.9079	P	0.9	-0.6
6	☐	20000.00	20027.07	853670.95	1.8055	P	0.3	0.1

y = 8.8941E-005 * x + 0.0242
R = 1.0000
DL = 2.949 ppb
BEC = 272.3 ppb

Weight: <None>
Min Conc: <None>

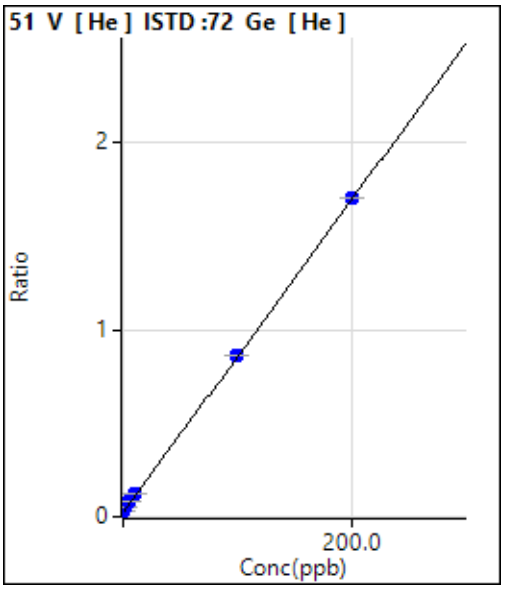
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	0.7	
2	☐	2.000	2.365	466.68	0.0010	P	7.0	18.2
3	☐	5.000	5.653	1110.07	0.0023	P	5.6	13.1
4	☐	10.000	11.110	2173.55	0.0045	P	6.6	11.1
5	☐	100.000	99.978	19654.46	0.0407	P	3.6	0.0
6	☐	200.000	199.935	38457.49	0.0813	P	2.3	0.0

y = 4.0667E-004 * x + 2.0962E-005
R = 1.0000
DL = 0.001027 ppb
BEC = 0.05154 ppb

Weight: <None>
Min Conc: <None>

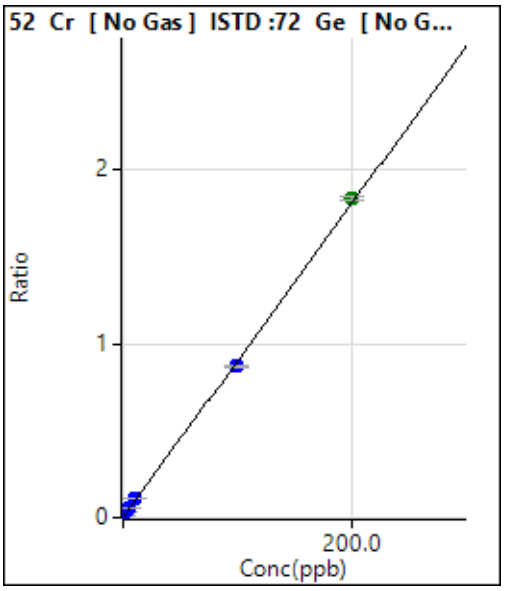


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14722.42	0.0309	P	2.1	
2	☐	2.000	2.437	24328.28	0.0512	P	0.2	21.9
3	☐	5.000	5.727	37678.30	0.0787	P	1.2	14.5
4	☐	10.000	11.324	60102.11	0.1255	P	2.4	13.2
5	☐	100.000	99.508	416740.64	0.8626	P	0.6	-0.5
6	☐	200.000	200.157	805685.32	1.7040	P	0.5	0.1

y = 0.0084 * x + 0.0309
R = 1.0000
DL = 0.2347 ppb
BEC = 3.692 ppb

Weight: <None>
Min Conc: <None>

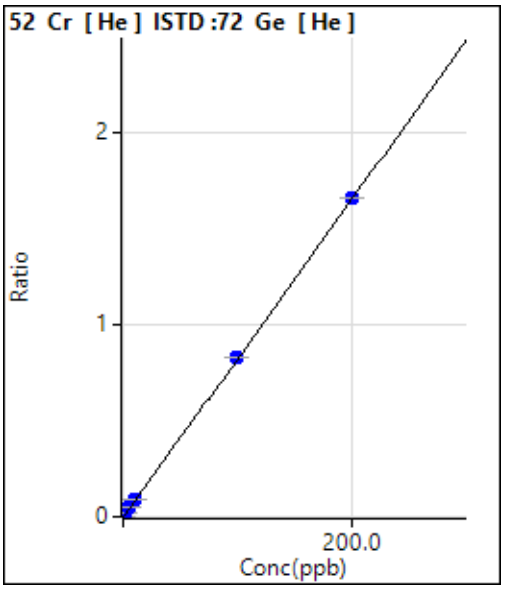
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10314.07	0.0116	P	6.3	
2	☐	2.000	2.016	26829.84	0.0298	P	0.8	0.8
3	☐	5.000	5.164	52249.98	0.0582	P	0.4	3.3
4	☐	10.000	10.454	94592.40	0.1059	P	1.2	4.5
5	☐	100.000	95.108	784673.71	0.8703	P	1.5	-4.9
6	☐	200.000	202.419	1623415.23	1.8391	A	1.6	1.2

y = 0.0090 * x + 0.0116
R = 0.9996
DL = 0.2424 ppb
BEC = 1.28 ppb

Weight: <None>
Min Conc: <None>

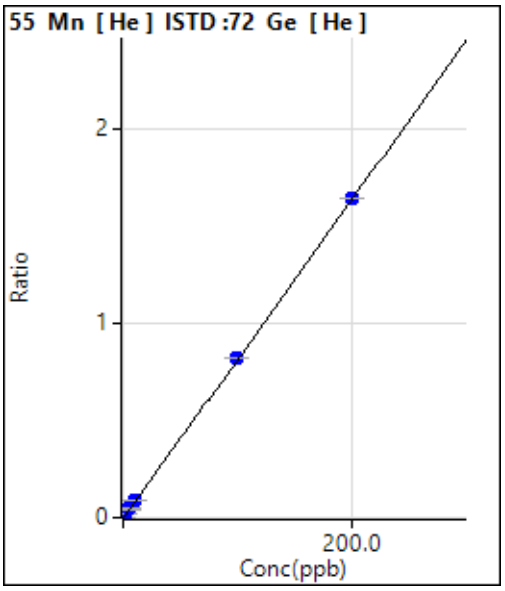


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1916.84	0.0040	P	3.8	
2	☐	2.000	2.221	10637.64	0.0224	P	4.4	11.0
3	☐	5.000	5.528	23817.58	0.0498	P	1.6	10.6
4	☐	10.000	10.880	45040.99	0.0941	P	1.4	8.8
5	☐	100.000	99.817	401031.10	0.8301	P	0.4	-0.2
6	☐	200.000	200.032	784667.44	1.6595	P	0.4	0.0

y = 0.0083 * x + 0.0040
R = 1.0000
DL = 0.05598 ppb
BEC = 0.4856 ppb

Weight: <None>
Min Conc: <None>

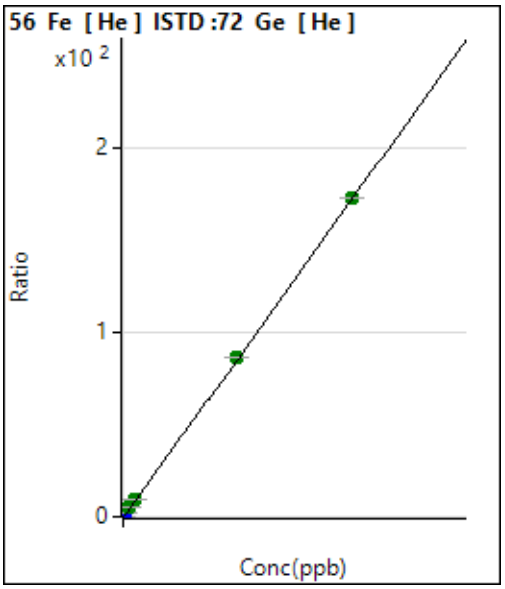
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.08	0.0027	P	2.9	
2	☐	2.000	2.075	9353.36	0.0197	P	5.0	3.7
3	☐	5.000	5.112	21333.68	0.0446	P	2.2	2.2
4	☐	10.000	10.744	43432.82	0.0907	P	1.5	7.4
5	☐	100.000	99.778	396120.37	0.8200	P	0.4	-0.2
6	☐	200.000	200.070	776115.59	1.6414	P	0.4	0.0

y = 0.0082 * x + 0.0027
R = 1.0000
DL = 0.02865 ppb
BEC = 0.3301 ppb

Weight: <None>
Min Conc: <None>

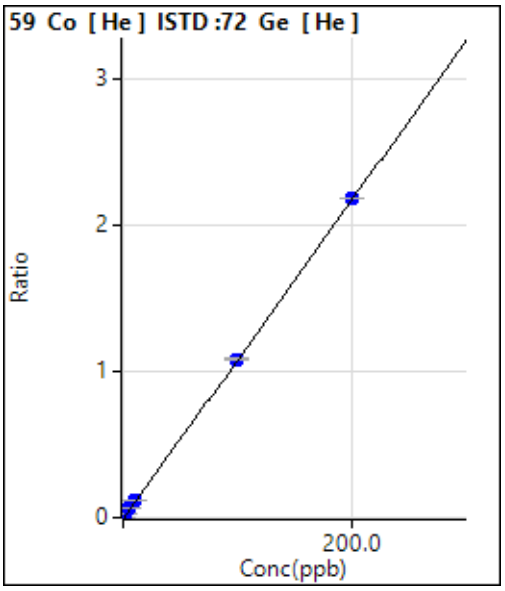


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	49187.65	0.1031	P	0.1	
2	☐	200.000	209.977	911137.07	1.9188	P	0.9	5.0
3	☐	500.000	563.692	2382086.16	4.9775	A	0.8	12.7
4	☐	1000.000	1103.338	4618358.47	9.6439	A	0.8	10.3
5	☐	10000.00	9975.617	41722206.0	86.3647	A	0.5	-0.2
6	☐	20000.00	20005.33	81844063.7	173.094	A	0.3	0.0

y = 0.0086 * x + 0.1031
R = 1.0000
DL = 0.03999 ppb
BEC = 11.92 ppb

Weight: <None>
Min Conc: <None>

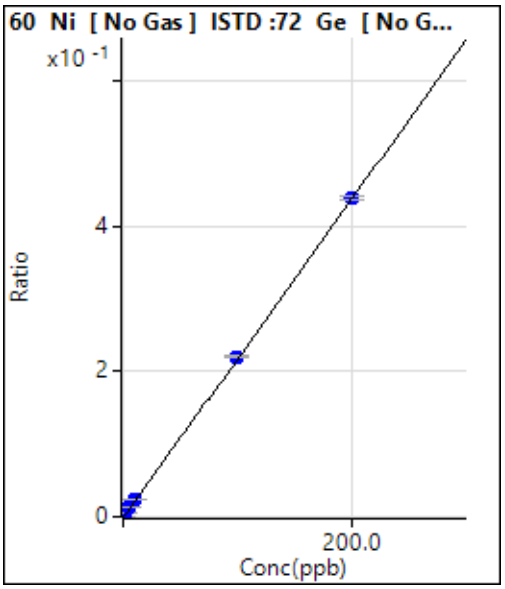
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.68	0.0007	P	23.4	
2	☐	2.000	2.070	11024.61	0.0232	P	1.3	3.5
3	☐	5.000	5.453	28757.46	0.0601	P	2.3	9.1
4	☐	10.000	10.940	57404.55	0.1199	P	1.4	9.4
5	☐	100.000	99.302	523050.18	1.0827	P	1.1	-0.7
6	☐	200.000	200.290	1032280.32	2.1832	P	0.0	0.1

y = 0.0109 * x + 6.6433E-004
R = 1.0000
DL = 0.04284 ppb
BEC = 0.06097 ppb

Weight: <None>
Min Conc: <None>

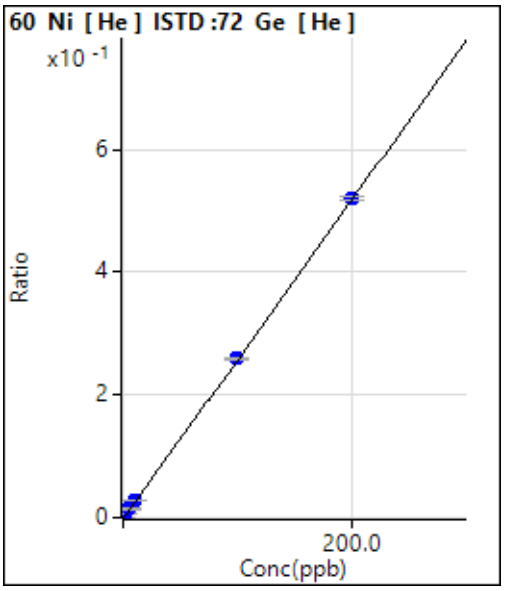


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.01	0.0005	P	17.3	
2	☐	2.000	2.284	4974.33	0.0055	P	5.2	14.2
3	☐	5.000	5.427	11144.73	0.0124	P	2.9	8.5
4	☐	10.000	11.007	22014.69	0.0247	P	0.7	10.1
5	☐	100.000	100.255	198801.60	0.2205	P	0.5	0.3
6	☐	200.000	199.809	387412.36	0.4389	P	0.9	-0.1

y = 0.0022 * x + 5.0406E-004
R = 1.0000
DL = 0.1195 ppb
BEC = 0.2297 ppb

Weight: <None>
Min Conc: <None>

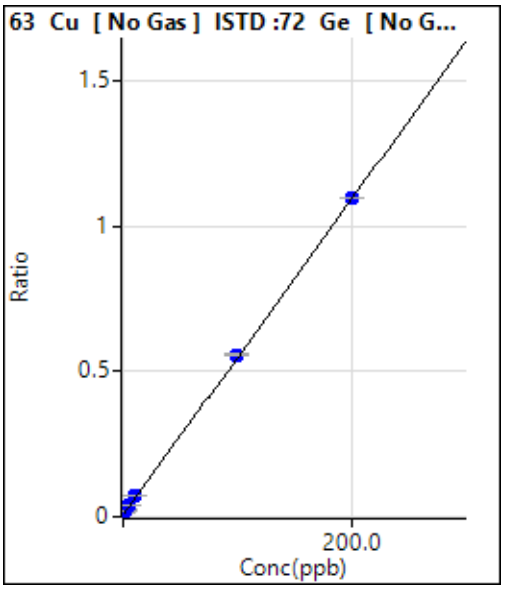
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0003	P	42.0	
2	☐	2.000	2.038	2680.32	0.0056	P	5.4	1.9
3	☐	5.000	5.359	6831.84	0.0143	P	2.9	7.2
4	☐	10.000	10.447	13173.25	0.0275	P	3.1	4.5
5	☐	100.000	99.569	125168.47	0.2591	P	0.6	-0.4
6	☐	200.000	200.184	246134.27	0.5206	P	0.7	0.1

y = 0.0026 * x + 3.4873E-004
R = 1.0000
DL = 0.1693 ppb
BEC = 0.1342 ppb

Weight: <None>
Min Conc: <None>

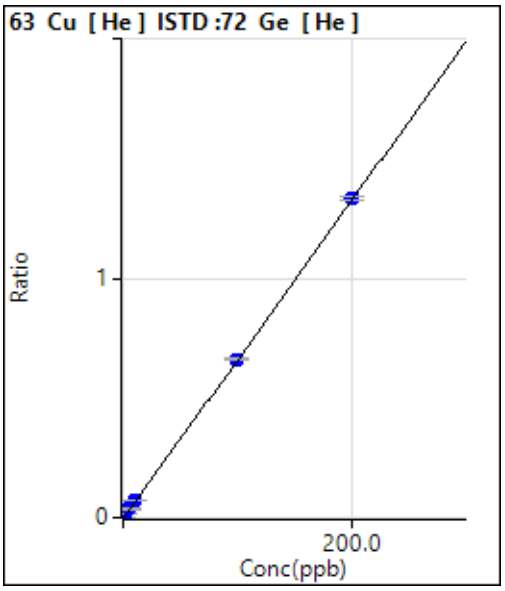


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10230.66	0.0115	P	4.7	
2	☐	2.000	2.105	20642.59	0.0229	P	2.9	5.2
3	☐	5.000	5.374	36509.47	0.0407	P	1.4	7.5
4	☐	10.000	10.774	62486.92	0.0700	P	1.6	7.7
5	☐	100.000	100.333	501769.15	0.5565	P	0.8	0.3
6	☐	200.000	199.784	967999.00	1.0967	P	0.4	-0.1

y = 0.0054 * x + 0.0115
R = 1.0000
DL = 0.2979 ppb
BEC = 2.11 ppb

Weight: <None>
Min Conc: <None>

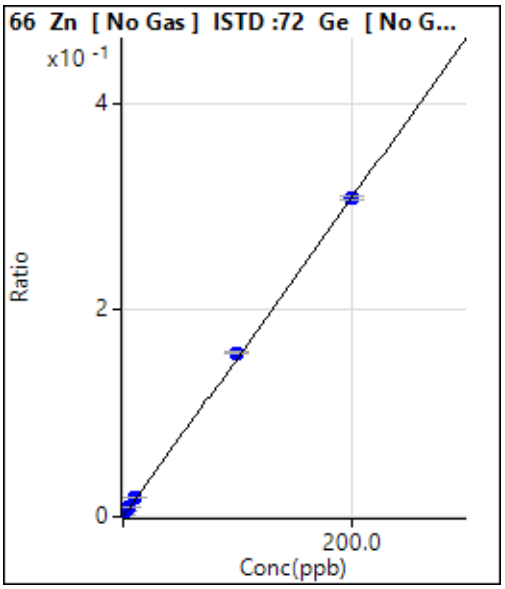
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.70	0.0015	P	3.2	
2	☐	2.000	2.183	7602.30	0.0160	P	4.6	9.2
3	☐	5.000	5.305	17588.32	0.0368	P	4.8	6.1
4	☐	10.000	10.668	34664.51	0.0724	P	1.2	6.7
5	☐	100.000	99.047	318662.13	0.6596	P	1.3	-1.0
6	☐	200.000	200.434	630430.32	1.3333	P	0.9	0.2

y = 0.0066 * x + 0.0015
R = 1.0000
DL = 0.02199 ppb
BEC = 0.2261 ppb

Weight: <None>
Min Conc: <None>

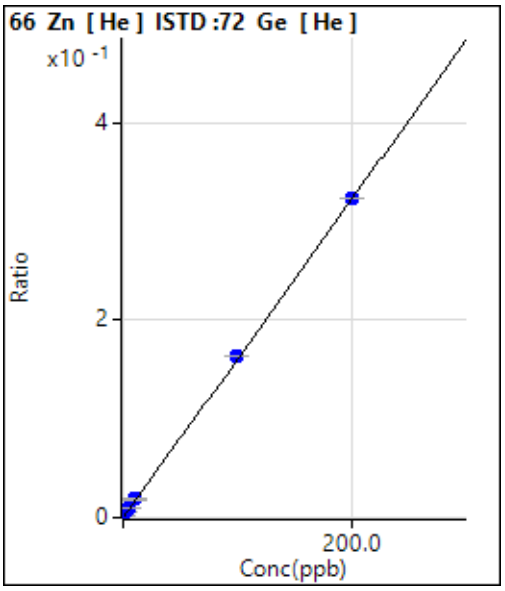


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1133.40	0.0013	P	3.0	
2	☐	2.000	2.576	4730.92	0.0052	P	3.5	28.8
3	☐	5.000	5.703	9046.47	0.0101	P	0.3	14.1
4	☐	10.000	11.103	16436.86	0.0184	P	2.5	11.0
5	☐	100.000	101.846	142912.77	0.1585	P	0.5	1.8
6	☐	200.000	198.999	272263.31	0.3085	P	1.3	-0.5

y = 0.0015 * x + 0.0013
R = 0.9999
DL = 0.07412 ppb
BEC = 0.8225 ppb

Weight: <None>
Min Conc: <None>

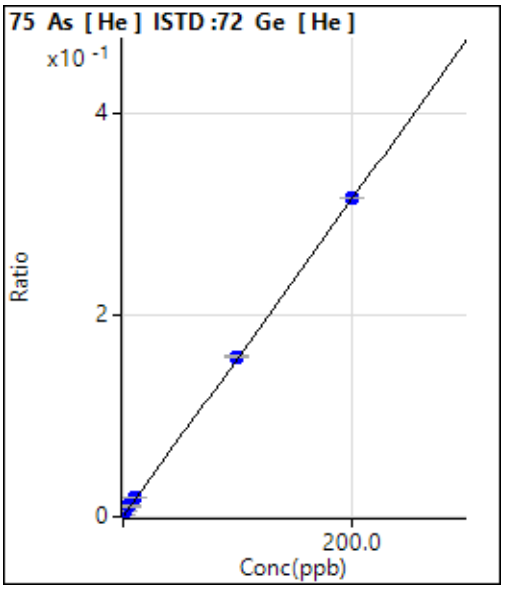
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	646.70	0.0014	P	11.7	
2	☐	2.000	2.424	2500.28	0.0053	P	2.9	21.2
3	☐	5.000	5.371	4794.27	0.0100	P	3.0	7.4
4	☐	10.000	10.654	8876.39	0.0185	P	3.2	6.5
5	☐	100.000	100.463	78935.82	0.1634	P	0.7	0.5
6	☐	200.000	199.722	152961.78	0.3235	P	0.3	-0.1

y = 0.0016 * x + 0.0014
R = 1.0000
DL = 0.2957 ppb
BEC = 0.84 ppb

Weight: <None>
Min Conc: <None>

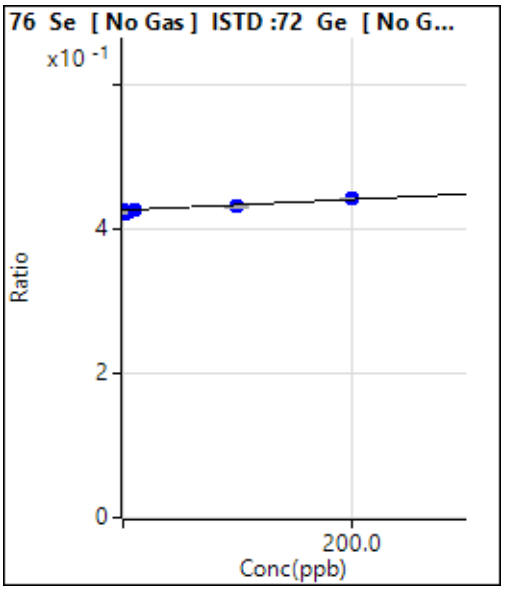


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	855.59	0.0018	P	4.5	
2	☐	2.000	2.166	2472.46	0.0052	P	6.2	8.3
3	☐	5.000	5.525	5025.41	0.0105	P	2.3	10.5
4	☐	10.000	10.922	9104.22	0.0190	P	1.2	9.2
5	☐	100.000	99.981	76991.21	0.1594	P	0.8	0.0
6	☐	200.000	199.948	149854.98	0.3169	P	0.1	0.0

y = 0.0016 * x + 0.0018
R = 1.0000
DL = 0.1522 ppb
BEC = 1.138 ppb

Weight: <None>
Min Conc: <None>

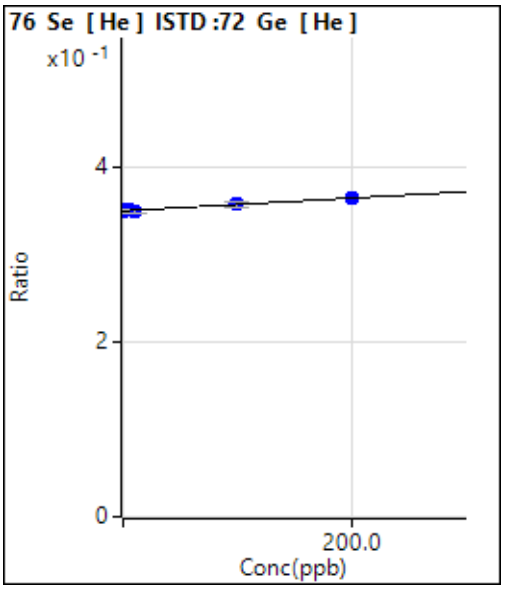
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	381195.84	0.4270	P	0.8	
2	☐	2.000	-63.274	380755.72	0.4223	P	1.2	-3263.
3	☐	5.000	-44.262	380499.50	0.4237	P	0.4	-985.2
4	☐	10.000	4.293	381551.80	0.4273	P	0.5	-57.1
5	☐	100.000	64.909	389378.16	0.4318	P	0.7	-35.1
6	☐	200.000	219.715	391350.55	0.4434	P	0.4	9.9

y = 7.4506E-005 * x + 0.4270
R = 0.9641
DL = 134.4 ppb
BEC = 5731 ppb

Weight: <None>
Min Conc: <None>

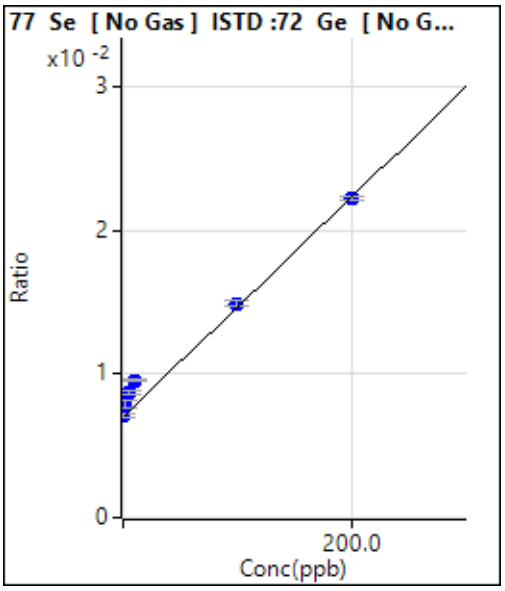


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	167113.54	0.3503	P	0.5	
2	☐	2.000	8.582	166640.88	0.3509	P	1.1	329.1
3	☐	5.000	7.639	167909.61	0.3509	P	0.6	52.8
4	☐	10.000	-2.645	167646.09	0.3501	P	1.2	-126.4
5	☐	100.000	100.977	172820.47	0.3577	P	1.6	1.0
6	☐	200.000	200.012	172603.52	0.3650	P	0.4	0.0

y = 7.3705E-005 * x + 0.3503
R = 0.9969
DL = 67.56 ppb
BEC = 4753 ppb

Weight: <None>
Min Conc: <None>

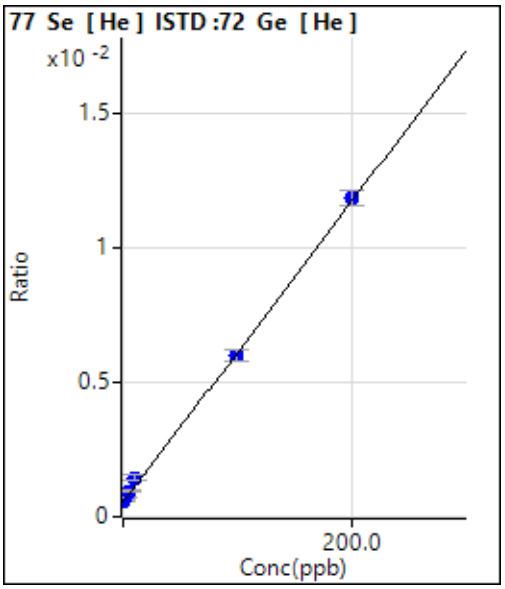
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6378.29	0.0071	P	4.1	
2	☐	2.000	9.837	7122.01	0.0079	P	7.3	391.9
3	☐	5.000	20.146	7799.10	0.0087	P	2.8	302.9
4	☐	10.000	31.868	8556.21	0.0096	P	1.8	218.7
5	☐	100.000	101.943	13470.26	0.0149	P	2.2	1.9
6	☐	200.000	197.478	19634.68	0.0222	P	1.2	-1.3

y = 7.6466E-005 * x + 0.0071
R = 0.9950
DL = 11.52 ppb
BEC = 93.43 ppb

Weight: <None>
Min Conc: <None>

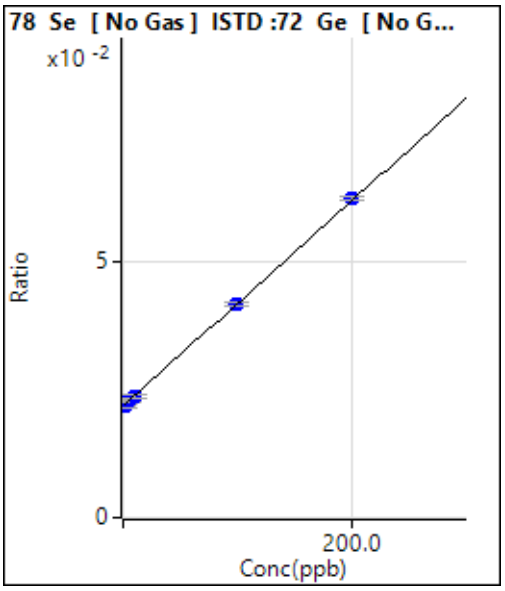


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0006	P	8.7	
2	☐	2.000	1.809	330.01	0.0007	P	2.5	-9.5
3	☐	5.000	6.326	453.35	0.0009	P	8.8	26.5
4	☐	10.000	15.399	696.70	0.0015	P	13.1	54.0
5	☐	100.000	96.725	2897.04	0.0060	P	7.8	-3.3
6	☐	200.000	201.337	5597.92	0.0118	P	5.0	0.7

y = 5.5860E-005 * x + 5.9386E-004
R = 0.9994
DL = 2.781 ppb
BEC = 10.63 ppb

Weight: <None>
Min Conc: <None>

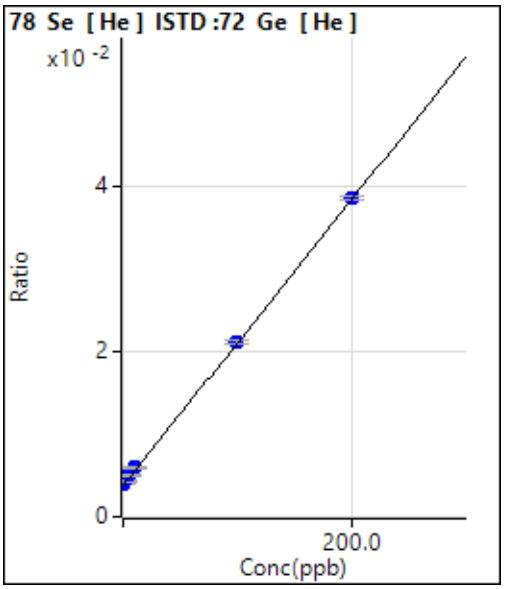
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19781.52	0.0222	P	3.0	
2	☐	2.000	-2.118	19597.86	0.0217	P	3.1	-205.9
3	☐	5.000	3.293	20489.22	0.0228	P	2.5	-34.1
4	☐	10.000	7.832	21180.34	0.0237	P	2.2	-21.7
5	☐	100.000	97.831	37602.75	0.0417	P	2.1	-2.2
6	☐	200.000	201.277	55056.12	0.0624	P	1.6	0.6

y = 1.9981E-004 * x + 0.0222
R = 0.9998
DL = 10.09 ppb
BEC = 110.9 ppb

Weight: <None>
Min Conc: <None>

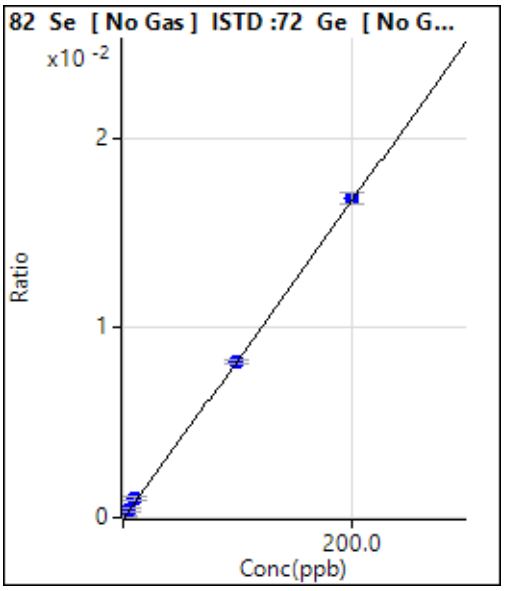


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1898.81	0.0040	P	1.6	
2	☐	2.000	1.997	2054.17	0.0043	P	3.2	-0.1
3	☐	5.000	6.332	2430.23	0.0051	P	3.9	26.6
4	☐	10.000	11.731	2880.32	0.0060	P	4.1	17.3
5	☐	100.000	99.521	10259.25	0.0212	P	2.5	-0.5
6	☐	200.000	200.120	18291.05	0.0387	P	0.7	0.1

y = 1.7341E-004 * x + 0.0040
R = 1.0000
DL = 1.091 ppb
BEC = 22.95 ppb

Weight: <None>
Min Conc: <None>

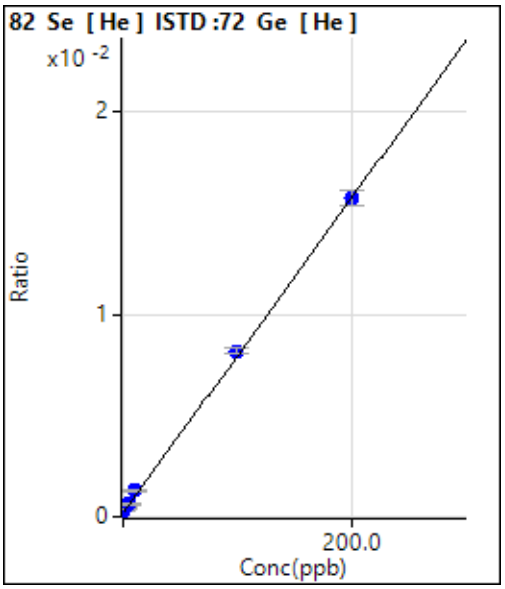
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-16.30	0.0000	P	-197.	
2	☐	2.000	0.568	26.55	0.0000	P	38.0	-71.6
3	☐	5.000	4.993	359.97	0.0004	P	50.0	-0.1
4	☐	10.000	11.978	880.22	0.0010	P	14.8	19.8
5	☐	100.000	98.089	7402.46	0.0082	P	3.3	-1.9
6	☐	200.000	200.871	14852.56	0.0168	P	4.1	0.4

y = 8.3866E-005 * x - 1.8234E-005
R = 0.9998
DL = 1.286 ppb
BEC = -0.2174 ppb

Weight: <None>
Min Conc: <None>

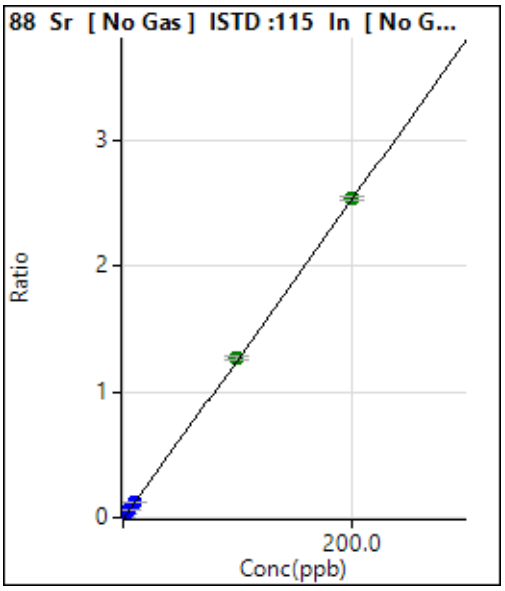


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0003	P	23.7	
2	☐	2.000	1.997	203.34	0.0004	P	21.9	-0.1
3	☐	5.000	4.647	303.34	0.0006	P	20.3	-7.1
4	☐	10.000	12.968	613.36	0.0013	P	4.5	29.7
5	☐	100.000	101.789	3953.98	0.0082	P	4.1	1.8
6	☐	200.000	198.966	7442.19	0.0157	P	4.4	-0.5

y = 7.7723E-005 * x + 2.7278E-004
R = 0.9998
DL = 2.496 ppb
BEC = 3.51 ppb

Weight: <None>
Min Conc: <None>

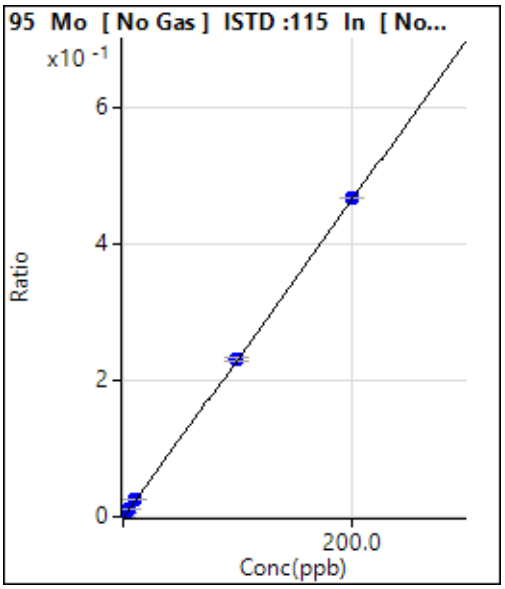
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	20.4	
2	☐	2.000	1.959	26192.75	0.0253	P	1.7	-2.1
3	☐	5.000	4.887	64672.98	0.0624	P	0.2	-2.3
4	☐	10.000	9.936	130997.57	0.1263	P	0.5	-0.6
5	☐	100.000	99.898	1310977.92	1.2658	A	1.7	-0.1
6	☐	200.000	200.058	2574710.01	2.5345	A	0.9	0.0

y = 0.0127 * x + 4.5934E-004
R = 1.0000
DL = 0.0222 ppb
BEC = 0.03626 ppb

Weight: <None>
Min Conc: <None>

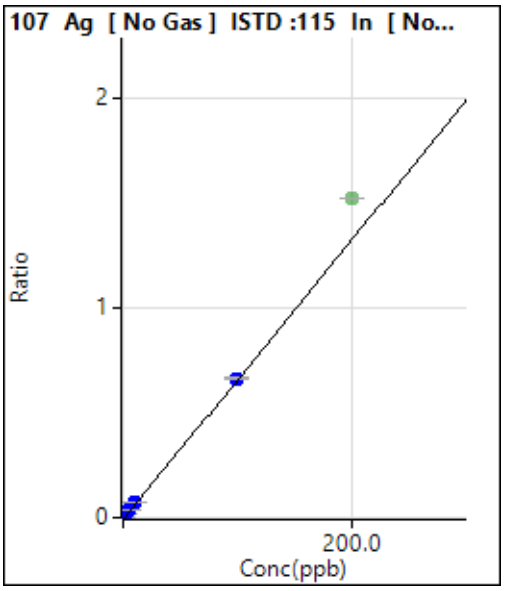


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	24.1	
2	☐	2.000	2.030	5007.69	0.0048	P	1.5	1.5
3	☐	5.000	5.252	12806.34	0.0123	P	1.8	5.0
4	☐	10.000	10.439	25357.79	0.0245	P	3.0	4.4
5	☐	100.000	99.141	239698.15	0.2314	P	2.1	-0.9
6	☐	200.000	200.401	475149.93	0.4677	P	0.5	0.2

y = 0.0023 * x + 9.3799E-005
R = 1.0000
DL = 0.02903 ppb
BEC = 0.0402 ppb

Weight: <None>
Min Conc: <None>

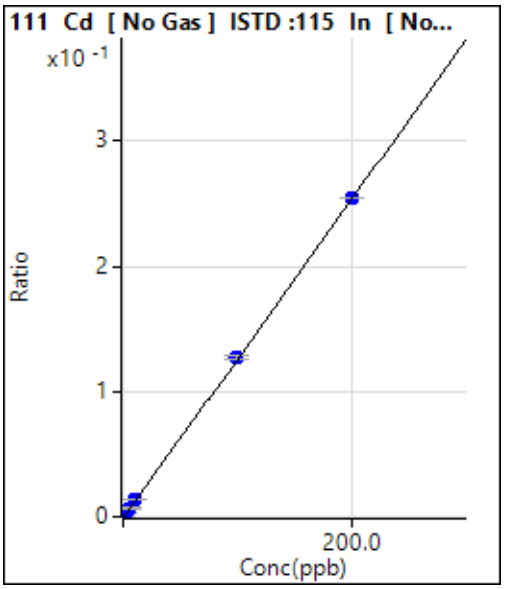
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	220.01	0.0002	P	20.2	
2	☐	2.000	2.296	16090.00	0.0155	P	1.1	14.8
3	☐	5.000	5.608	38991.26	0.0376	P	3.2	12.2
4	☐	10.000	11.143	77272.28	0.0745	P	2.3	11.4
5	☐	100.000	99.849	689668.53	0.6659	P	1.6	-0.2
6	☑	200.000		1550495.86	1.5263	A	0.2	

y = 0.0067 * x + 2.1350E-004
R = 0.9999
DL = 0.01936 ppb
BEC = 0.03202 ppb

Weight: <None>
Min Conc: <None>

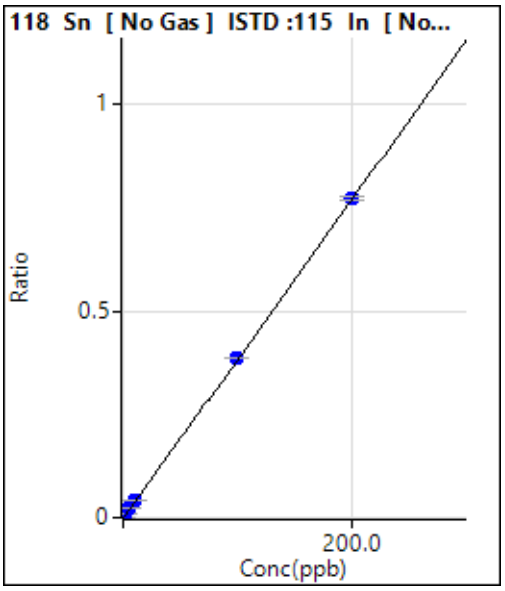


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	32.9	
2	☐	2.000	2.210	2963.72	0.0029	P	3.0	10.5
3	☐	5.000	5.276	7015.34	0.0068	P	4.9	5.5
4	☐	10.000	10.493	13900.89	0.0134	P	3.2	4.9
5	☐	100.000	100.230	132221.05	0.1277	P	2.2	0.2
6	☐	200.000	199.852	258558.99	0.2545	P	0.5	-0.1

y = 0.0013 * x + 4.5286E-005
R = 1.0000
DL = 0.03515 ppb
BEC = 0.03557 ppb

Weight: <None>
Min Conc: <None>

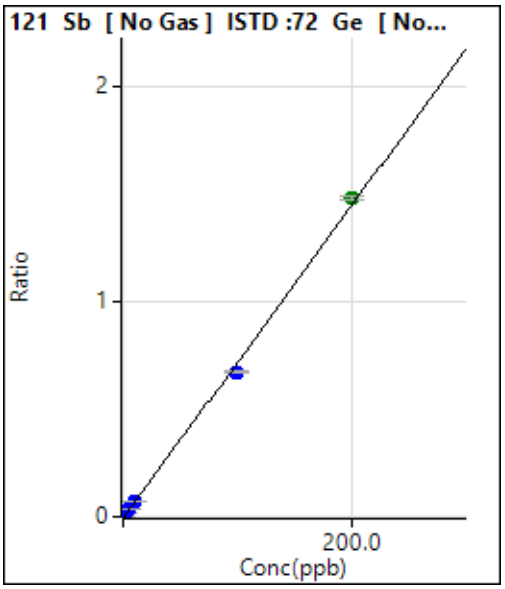
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1483.45	0.0014	P	5.6	
2	☐	2.000	2.097	9863.90	0.0095	P	4.5	4.8
3	☐	5.000	5.227	22379.43	0.0216	P	1.2	4.5
4	☐	10.000	10.427	43154.58	0.0416	P	2.0	4.3
5	☐	100.000	99.837	399911.83	0.3861	P	0.8	-0.2
6	☐	200.000	200.054	784472.41	0.7722	P	0.8	0.0

y = 0.0039 * x + 0.0014
R = 1.0000
DL = 0.06228 ppb
BEC = 0.3735 ppb

Weight: <None>
Min Conc: <None>

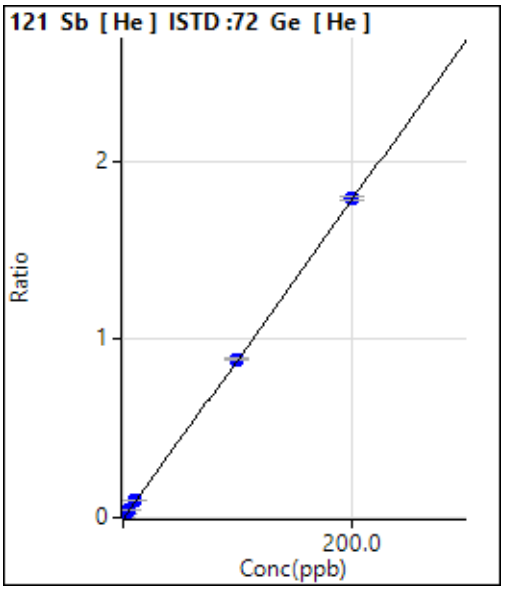


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	350.02	0.0004	P	24.3	
2	☐	2.000	1.946	13130.09	0.0146	P	3.6	-2.7
3	☐	5.000	4.949	32707.82	0.0364	P	1.1	-1.0
4	☐	10.000	9.882	64585.64	0.0723	P	1.1	-1.2
5	☐	100.000	92.347	606575.53	0.6727	P	1.2	-7.7
6	☐	200.000	203.834	1310256.62	1.4844	A	1.2	1.9

y = 0.0073 * x + 3.9200E-004
R = 0.9990
DL = 0.03932 ppb
BEC = 0.05384 ppb

Weight: <None>
Min Conc: <None>

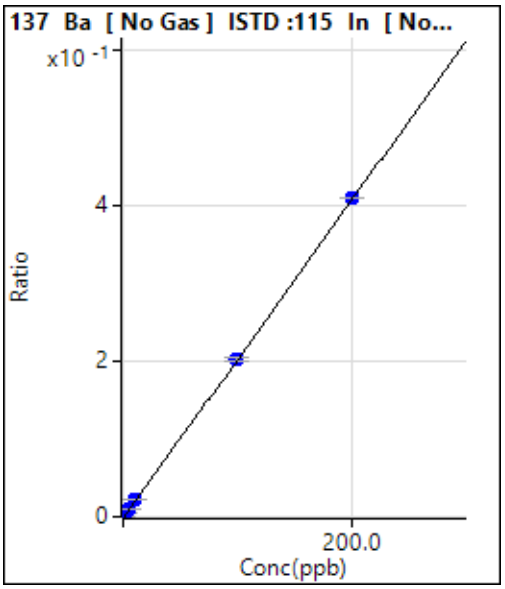
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.68	0.0005	P	10.3	
2	☐	2.000	2.088	9116.65	0.0192	P	2.4	4.4
3	☐	5.000	5.119	22182.42	0.0464	P	2.6	2.4
4	☐	10.000	10.688	46087.86	0.0962	P	0.5	6.9
5	☐	100.000	99.418	430438.54	0.8910	P	0.9	-0.6
6	☐	200.000	200.253	848354.23	1.7942	P	0.8	0.1

y = 0.0090 * x + 4.9599E-004
R = 1.0000
DL = 0.01718 ppb
BEC = 0.05537 ppb

Weight: <None>
Min Conc: <None>

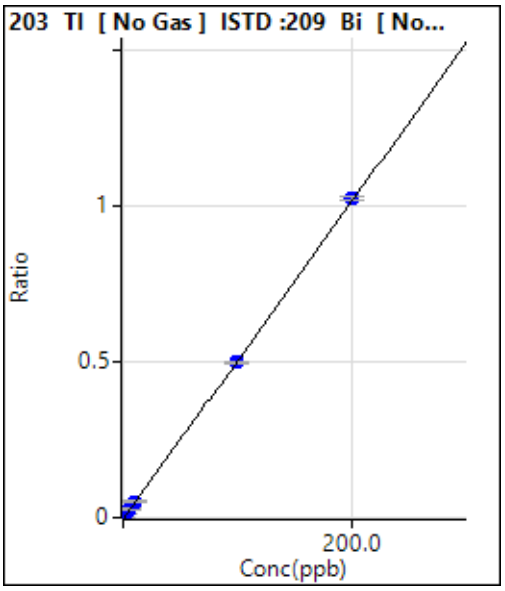


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	36.1	
2	☐	2.000	2.109	4567.57	0.0044	P	9.8	5.5
3	☐	5.000	5.276	11288.41	0.0109	P	0.8	5.5
4	☐	10.000	10.791	22980.75	0.0222	P	3.0	7.9
5	☐	100.000	99.037	209856.39	0.2026	P	2.1	-1.0
6	☐	200.000	200.434	416491.11	0.4100	P	0.6	0.2

y = 0.0020 * x + 9.3706E-005
R = 1.0000
DL = 0.04968 ppb
BEC = 0.04582 ppb

Weight: <None>
Min Conc: <None>

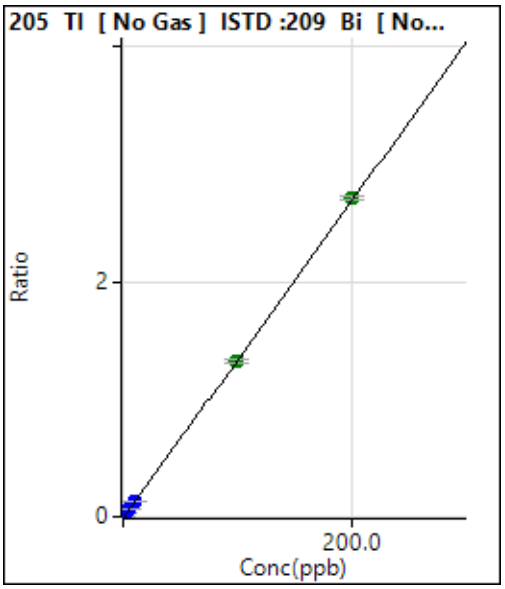
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.68	0.0002	P	4.1	
2	☐	2.000	2.182	12910.26	0.0114	P	3.0	9.1
3	☐	5.000	5.391	31643.68	0.0278	P	0.6	7.8
4	☐	10.000	10.211	59484.83	0.0523	P	1.1	2.1
5	☐	100.000	97.756	570596.27	0.4990	P	1.3	-2.2
6	☐	200.000	201.100	1146129.62	1.0263	P	1.0	0.5

y = 0.0051 * x + 2.4686E-004
R = 0.9999
DL = 0.005927 ppb
BEC = 0.04838 ppb

Weight: <None>
Min Conc: <None>

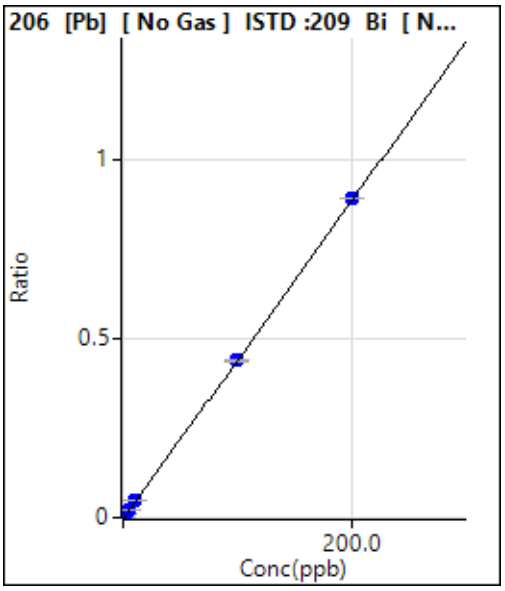


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520.02	0.0005	P	8.2	
2	☐	2.000	1.952	30434.08	0.0268	P	2.3	-2.4
3	☐	5.000	4.881	75672.99	0.0664	P	1.5	-2.4
4	☐	10.000	9.168	141210.38	0.1243	P	1.4	-8.3
5	☐	100.000	98.074	1514749.92	1.3248	A	1.5	-1.9
6	☐	200.000	201.008	3031376.21	2.7147	A	1.2	0.5

y = 0.0135 * x + 4.6396E-004
R = 0.9999
DL = 0.008482 ppb
BEC = 0.03436 ppb

Weight: <None>
Min Conc: <None>

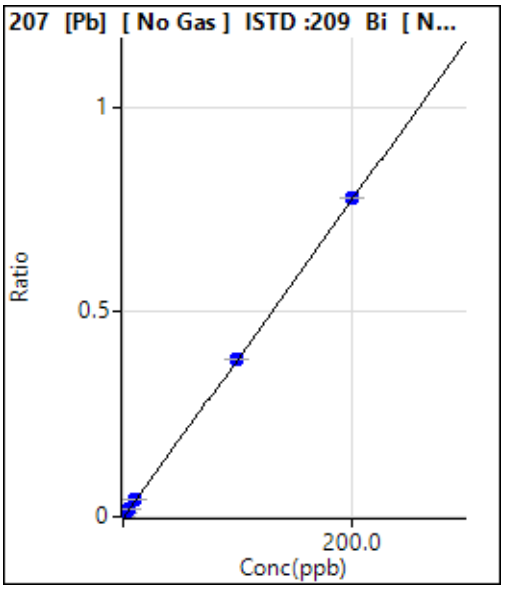
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0002	P	18.5	
2	☐	2.000	2.099	10834.90	0.0095	P	1.1	4.9
3	☐	5.000	5.270	26959.44	0.0236	P	1.2	5.4
4	☐	10.000	10.629	53953.52	0.0475	P	0.7	6.3
5	☐	100.000	98.654	501774.02	0.4388	P	1.0	-1.3
6	☐	200.000	200.634	996362.01	0.8923	P	0.6	0.3

y = 0.0044 * x + 2.1713E-004
R = 1.0000
DL = 0.02715 ppb
BEC = 0.04884 ppb

Weight: <None>
Min Conc: <None>

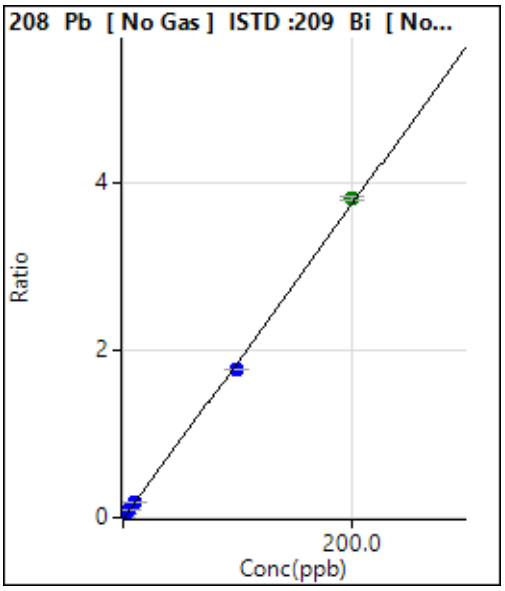


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	226.67	0.0002	P	22.9	
2	☐	2.000	2.136	9630.59	0.0085	P	1.8	6.8
3	☐	5.000	5.293	23636.07	0.0207	P	0.4	5.9
4	☐	10.000	10.729	47517.60	0.0418	P	0.5	7.3
5	☐	100.000	98.903	438820.02	0.3838	P	0.3	-1.1
6	☐	200.000	200.503	868604.83	0.7778	P	0.4	0.3

y = 0.0039 * x + 2.0232E-004
R = 1.0000
DL = 0.03577 ppb
BEC = 0.05217 ppb

Weight: <None>
Min Conc: <None>

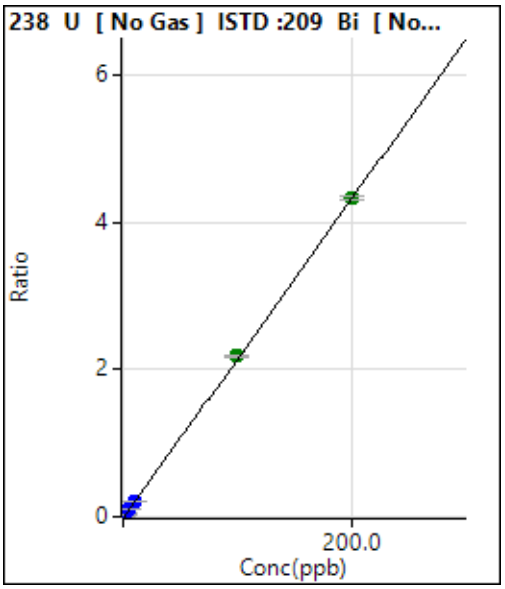
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	950.04	0.0008	P	14.5	
2	☐	2.000	1.970	42899.39	0.0378	P	2.4	-1.5
3	☐	5.000	5.017	108269.76	0.0950	P	0.8	0.3
4	☐	10.000	10.141	217155.65	0.1911	P	1.1	1.4
5	☐	100.000	93.960	2016310.66	1.7634	P	0.5	-6.0
6	☐	200.000	203.013	4253525.82	3.8091	A	1.1	1.5

y = 0.0188 * x + 8.4790E-004
R = 0.9994
DL = 0.01967 ppb
BEC = 0.0452 ppb

Weight: <None>
Min Conc: <None>

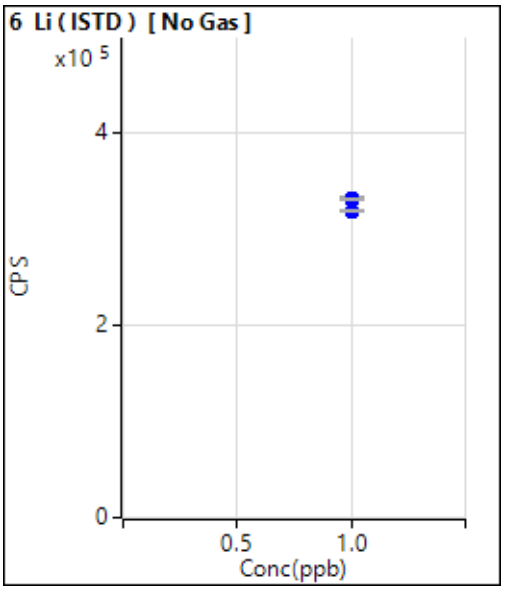


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	496.69	0.0004	P	20.5	
2	☐	2.000	1.787	44568.19	0.0393	P	1.2	-10.7
3	☐	5.000	4.598	114449.68	0.1004	P	0.4	-8.0
4	☐	10.000	9.291	229978.88	0.2024	P	0.9	-7.1
5	☐	100.000	100.848	2506607.10	2.1922	A	1.5	0.8
6	☐	200.000	199.624	4845037.22	4.3390	A	1.6	-0.2

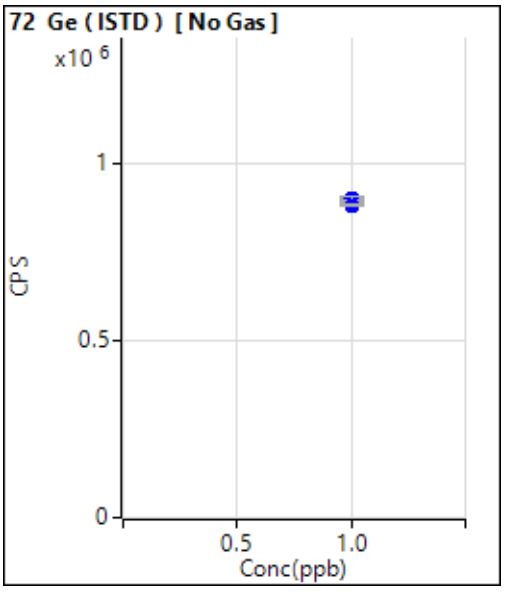
y = 0.0217 * x + 4.4333E-004
R = 1.0000
DL = 0.01255 ppb
BEC = 0.0204 ppb

Weight: <None>
Min Conc: <None>

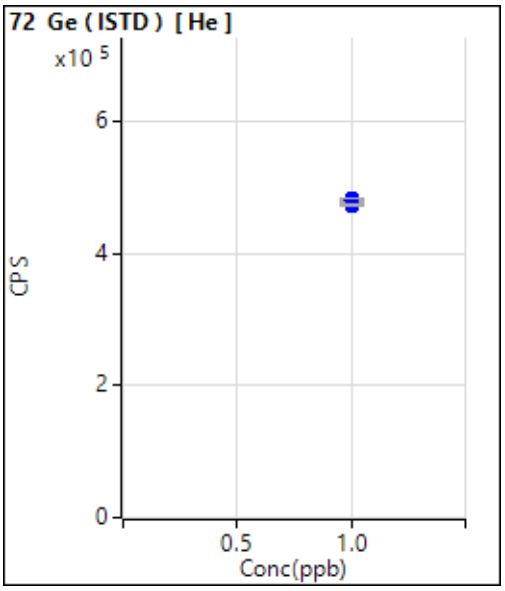
Calibration for 027_ICV.d



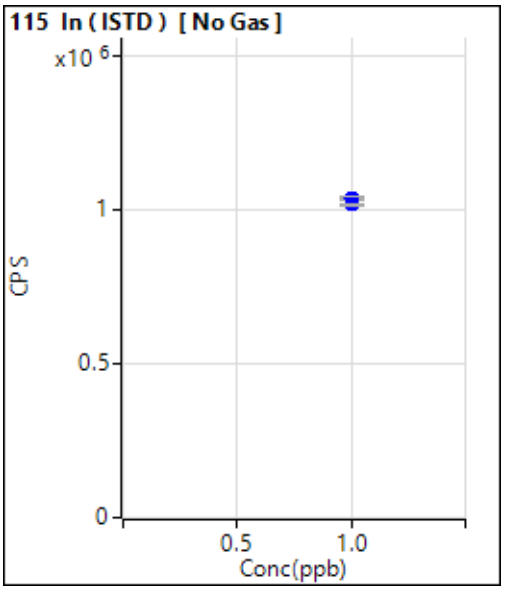
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		330976.45		P	0.6	
2	☐	1.000		329750.60		P	0.2	
3	☐	1.000		331288.14		P	1.3	
4	☐	1.000		330491.59		P	0.7	
5	☐	1.000		329494.52		P	0.5	
6	☐	1.000		318236.67		P	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		892757.67		P	0.2	
2	☐	1.000		901715.82		P	0.6	
3	☐	1.000		898065.43		P	0.4	
4	☐	1.000		892935.87		P	0.9	
5	☐	1.000		901725.82		P	0.7	
6	☐	1.000		882687.57		P	0.3	

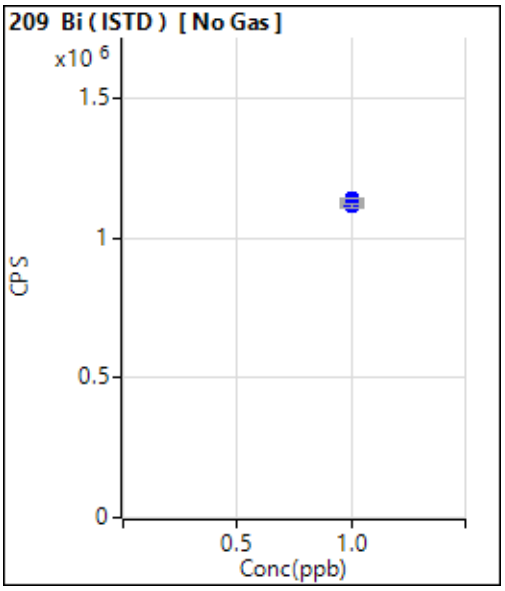


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		477077.62		P	0.7	
2	☐	1.000		474855.83		P	0.5	
3	☐	1.000		478568.95		P	0.2	
4	☐	1.000		478919.11		P	1.6	
5	☐	1.000		483102.23		P	0.6	
6	☐	1.000		472835.15		P	0.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1030947.84		P	0.3	
2	☐	1.000		1036567.49		P	0.6	
3	☐	1.000		1037106.73		P	0.6	
4	☐	1.000		1037093.86		P	0.9	
5	☐	1.000		1035801.66		P	1.1	
6	☐	1.000		1015862.66		P	0.7	

Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1120748.13		P	0.3	
2	☐	1.000		1134701.88		P	0.4	
3	☐	1.000		1140158.84		P	0.7	
4	☐	1.000		1136451.39		P	0.6	
5	☐	1.000		1143412.90		P	0.1	
6	☐	1.000		1116721.00		P	0.9	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	020CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:35:21-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	19756	0.00
Be	9	1	No Gas	42	43.99
V	51	2	He	14722	0.01
Cr	52	2	He	1917	0.17
Fe	56	2	He	49188	0.00
Se	78	2	He	1899	0.11
As	75	2	He	856	0.48
Ca	44	2	He	11555	0.01
Na	23	2	He	261740	0.00
Mg	24	2	He	1884	0.51
K	39	2	He	426855	0.00
Mn	55	2	He	1290	0.24
Co	59	2	He	317	7.21
Ni	60	2	He	167	25.54
Cu	63	2	He	717	0.49
Zn	66	2	He	647	1.92
Al	27	2	He	5148	0.04
B	11	1	No Gas	7055	0.05
Al	27	1	No Gas	54169	0.00
Si	28	1	No Gas	520915	0.00
Ag	107	1	No Gas	220	9.01
Cd	111	1	No Gas	47	70.14
Sr	88	1	No Gas	473	4.24
Mo	95	1	No Gas	97	24.71
Sn	118	1	No Gas	1483	0.37
Sb	121	1	No Gas	350	6.97
Ba	137	1	No Gas	97	37.58
Tl	205	1	No Gas	520	1.61
Tl	203	1	No Gas	277	1.51
Pb	208	1	No Gas	950	1.50
U	238	1	No Gas	497	4.08
Ca	43	2	He	67	34.37
Sb	121	2	He	237	4.49
Ti	47	2	He	10	0.00
Cu	63	1	No Gas	10231	0.04

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	330976	0.57
Ge	72	2	He	477078	0.66
Ge	72	1	No Gas	892758	0.17
In	115	1	No Gas	1030948	0.33

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	1120748	0.27

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	021CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:37:40-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	020CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	2419	0.08
V	51	2	He	24328	0.00
Cr	52	2	He	10638	0.05
Fe	56	2	He	911137	0.00
Se	78	2	He	2054	0.14
As	75	2	He	2472	0.23
Ca	44	2	He	20936	0.00
Na	23	2	He	467345	0.00
Mg	24	2	He	129498	0.00
K	39	2	He	623155	0.00
Mn	55	2	He	9353	0.05
Co	59	2	He	11025	0.01
Ni	60	2	He	2680	0.20
Cu	63	2	He	7602	0.06
Zn	66	2	He	2500	0.13
Al	27	2	He	6878	0.09
B	11	1	No Gas	12457	0.03
Al	27	1	No Gas	75434	0.00
Si	28	1	No Gas	546612	0.00
Ag	107	1	No Gas	16090	0.01
Cd	111	1	No Gas	2964	0.11
Sr	88	1	No Gas	26193	0.01
Mo	95	1	No Gas	5008	0.02
Sn	118	1	No Gas	9864	0.04
Sb	121	1	No Gas	13130	0.02
Ba	137	1	No Gas	4568	0.21
Tl	205	1	No Gas	30434	0.01
Tl	203	1	No Gas	12910	0.02
Pb	208	1	No Gas	42899	0.01
U	238	1	No Gas	44568	0.00
Ca	43	2	He	663	0.86
Sb	121	2	He	9117	0.03
Cu	63	1	No Gas	20643	0.02

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	329751	0.22	330976	99.63	70	120	
Ge	72	2	He	474856	0.51	477078	99.53	70	120	
Ge	72	1	No Gas	901716	0.57	892758	101.00	70	120	

Calibration Standard Report

In	115	1	No Gas	1036567	0.59	1030948	100.55	70	120	
Bi	209	1	No Gas	1134702	0.42	1120748	101.25	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	022CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:39:59-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	020CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	6145	0.05
V	51	2	He	37678	0.00
Cr	52	2	He	23818	0.01
Fe	56	2	He	2382086	0.00
Se	78	2	He	2430	0.17
As	75	2	He	5025	0.05
Ca	44	2	He	34133	0.00
Na	23	2	He	799574	0.00
Mg	24	2	He	328718	0.00
K	39	2	He	964039	0.00
Mn	55	2	He	21334	0.01
Co	59	2	He	28757	0.01
Ni	60	2	He	6832	0.04
Cu	63	2	He	17588	0.03
Zn	66	2	He	4794	0.06
Al	27	2	He	8089	0.06
B	11	1	No Gas	21577	0.01
Al	27	1	No Gas	91634	0.00
Si	28	1	No Gas	583139	0.00
Ag	107	1	No Gas	38991	0.01
Cd	111	1	No Gas	7015	0.08
Sr	88	1	No Gas	64673	0.00
Mo	95	1	No Gas	12806	0.01
Sn	118	1	No Gas	22379	0.01
Sb	121	1	No Gas	32708	0.00
Ba	137	1	No Gas	11288	0.01
Tl	205	1	No Gas	75673	0.00
Tl	203	1	No Gas	31644	0.00
Pb	208	1	No Gas	108270	0.00
U	238	1	No Gas	114450	0.00
Ca	43	2	He	1440	0.32
Sb	121	2	He	22182	0.01
Cu	63	1	No Gas	36509	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	331288	1.26	330976	100.09	70	120	
Ge	72	2	He	478569	0.18	477078	100.31	70	120	
Ge	72	1	No Gas	898065	0.41	892758	100.59	70	120	

Calibration Standard Report

In	115	1	No Gas	1037107	0.58	1030948	100.60	70	120	
Bi	209	1	No Gas	1140159	0.69	1120748	101.73	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	023CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:42:18-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	020CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	12414	0.02
V	51	2	He	60102	0.00
Cr	52	2	He	45041	0.00
Fe	56	2	He	4618358	0.00
Se	78	2	He	2880	0.16
As	75	2	He	9104	0.03
Ca	44	2	He	57678	0.00
Na	23	2	He	1378157	0.00
Mg	24	2	He	658248	0.00
K	39	2	He	1565955	0.00
Mn	55	2	He	43433	0.00
Co	59	2	He	57405	0.00
Ni	60	2	He	13173	0.04
Cu	63	2	He	34665	0.00
Zn	66	2	He	8876	0.02
Al	27	2	He	11045	0.01
B	11	1	No Gas	35849	0.00
Al	27	1	No Gas	121706	0.00
Si	28	1	No Gas	650656	0.00
Ag	107	1	No Gas	77272	0.00
Cd	111	1	No Gas	13901	0.02
Sr	88	1	No Gas	130998	0.00
Mo	95	1	No Gas	25358	0.01
Sn	118	1	No Gas	43155	0.00
Sb	121	1	No Gas	64586	0.00
Ba	137	1	No Gas	22981	0.01
Tl	205	1	No Gas	141210	0.00
Tl	203	1	No Gas	59485	0.00
Pb	208	1	No Gas	217156	0.00
U	238	1	No Gas	229979	0.00
Ca	43	2	He	2850	0.22
Sb	121	2	He	46088	0.00
Cu	63	1	No Gas	62487	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	330492	0.69	330976	99.85	70	120	
Ge	72	2	He	478919	1.64	477078	100.39	70	120	
Ge	72	1	No Gas	892936	0.90	892758	100.02	70	120	

Calibration Standard Report

In	115	1	No Gas	1037094	0.92	1030948	100.60	70	120	
Bi	209	1	No Gas	1136451	0.58	1120748	101.40	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	024CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:44:36-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	020CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	116932	0.00
V	51	2	He	416741	0.00
Cr	52	2	He	401031	0.00
Fe	56	2	He	41722206	0.00
Se	78	2	He	10259	0.02
As	75	2	He	76991	0.00
Ca	44	2	He	438600	0.00
Na	23	2	He	10194986	0.00
Mg	24	2	He	6366402	0.00
K	39	2	He	10467149	0.00
Mn	55	2	He	396120	0.00
Co	59	2	He	523050	0.00
Ni	60	2	He	125168	0.00
Cu	63	2	He	318662	0.00
Zn	66	2	He	78936	0.00
Al	27	2	He	59819	0.01
B	11	1	No Gas	274172	0.00
Al	27	1	No Gas	661380	0.00
Si	28	1	No Gas	2199211	0.00
Ag	107	1	No Gas	689669	0.00
Cd	111	1	No Gas	132221	0.00
Sr	88	1	No Gas	1310978	0.00
Mo	95	1	No Gas	239698	0.00
Sn	118	1	No Gas	399912	0.00
Sb	121	1	No Gas	606576	0.00
Ba	137	1	No Gas	209856	0.00
Tl	205	1	No Gas	1514750	0.00
Tl	203	1	No Gas	570596	0.00
Pb	208	1	No Gas	2016311	0.00
U	238	1	No Gas	2506607	0.00
Ca	43	2	He	25641	0.01
Sb	121	2	He	430439	0.00
Cu	63	1	No Gas	501769	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	329495	0.52	330976	99.55	70	120	
Ge	72	2	He	483102	0.57	477078	101.26	70	120	
Ge	72	1	No Gas	901726	0.75	892758	101.00	70	120	

Calibration Standard Report

In	115	1	No Gas	1035802	1.14	1030948	100.47	70	120	
Bi	209	1	No Gas	1143413	0.12	1120748	102.02	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	025CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:46:52-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	020CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	231113	0.00
V	51	2	He	805685	0.00
Cr	52	2	He	784667	0.00
Fe	56	2	He	81844064	0.00
Se	78	2	He	18291	0.01
As	75	2	He	149855	0.00
Ca	44	2	He	853671	0.00
Na	23	2	He	19831537	0.00
Mg	24	2	He	12587801	0.00
K	39	2	He	20186892	0.00
Mn	55	2	He	776116	0.00
Co	59	2	He	1032280	0.00
Ni	60	2	He	246134	0.00
Cu	63	2	He	630430	0.00
Zn	66	2	He	152962	0.00
Al	27	2	He	102321	0.00
B	11	1	No Gas	548463	0.00
Al	27	1	No Gas	1204453	0.00
Si	28	1	No Gas	3298985	0.00
Ag	107	1	No Gas	1550496	0.00
Cd	111	1	No Gas	258559	0.00
Sr	88	1	No Gas	2574710	0.00
Mo	95	1	No Gas	475150	0.00
Sn	118	1	No Gas	784472	0.00
Sb	121	1	No Gas	1310257	0.00
Ba	137	1	No Gas	416491	0.00
Tl	205	1	No Gas	3031376	0.00
Tl	203	1	No Gas	1146130	0.00
Pb	208	1	No Gas	4253526	0.00
U	238	1	No Gas	4845037	0.00
Ca	43	2	He	49309	0.00
Sb	121	2	He	848354	0.00
Cu	63	1	No Gas	967999	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	318237	0.49	330976	96.15	70	120	
Ge	72	2	He	472835	0.58	477078	99.11	70	120	
Ge	72	1	No Gas	882688	0.33	892758	98.87	70	120	

Calibration Standard Report

In	115	1	No Gas	1015863	0.66	1030948	98.54	70	120	
Bi	209	1	No Gas	1116721	0.92	1120748	99.64	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	027_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:53:02-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	91.033	0.283	461300	0.30	100	91.0	90	110	
Be	9	1	No Gas	99.004	1.183	117555	0.77	100	99.0	90	110	
V	51	2	He	97.421	0.470	410121	0.77	100	97.4	90	110	
Cr	52	2	He	98.734	0.973	398436	0.43	100	98.7	90	110	
Fe	56	2	He	9892.461	0.597	41557076	0.23	10000	98.9	90	110	
Se	78	2	He	98.823	0.678	10247	0.72	100	98.8	90	110	
As	75	2	He	99.208	0.113	76742	0.88	100	99.2	90	110	
Ca	44	2	He	9862.653	0.866	437383	0.42	10000	98.6	90	110	
Na	23	2	He	9859.993	0.177	10157911	0.60	10000	98.6	90	110	
Mg	24	2	He	9779.262	0.787	6305147	0.73	10000	97.8	90	110	
K	39	2	He	9827.497	1.135	10390852	0.65	10000	98.3	90	110	
Mn	55	2	He	98.340	0.784	392144	0.06	100	98.3	90	110	
Co	59	2	He	99.019	0.354	523875	0.50	100	99.0	90	110	
Ni	60	2	He	96.622	0.717	122006	0.85	100	96.6	90	110	
Cu	63	2	He	98.599	1.435	318620	0.76	100	98.6	90	110	
Zn	66	2	He	100.836	1.866	79579	2.11	100	100.8	90	110	
Al	27	2	He	106.840	1.862	59611	1.15	100	106.8	90	110	
B	11	1	No Gas	492.900	0.625	279947	0.95	500	98.6	90	110	
Al	27	1	No Gas	101.686	0.655	656005	0.13	100	101.7	90	110	
Si	28	1	No Gas	560.316	2.332	2173399	1.76	500	112.1	90	110	ICV Main CR1 Failed
Ag	107	1	No Gas	89.407	1.262	687611	0.93	100	89.4	90	110	ICV Main CR1 Failed
Cd	111	1	No Gas	99.107	0.106	130534	0.72	100	99.1	90	110	
Sr	88	1	No Gas	100.246	1.827	1313331	1.06	100	100.2	90	110	
Mo	95	1	No Gas	99.348	1.448	239800	0.73	100	99.3	90	110	
Sn	118	1	No Gas	98.990	0.094	395870	0.86	100	99.0	90	110	
Sb	121	1	No Gas	92.399	0.898	606388	0.66	100	92.4	90	110	
Ba	137	1	No Gas	99.297	1.184	210064	0.62	100	99.3	90	110	
Tl	205	1	No Gas	96.282	1.117	1483993	0.85	100	96.3	90	110	
Tl	203	1	No Gas	97.290	0.952	566693	0.56	100	97.3	90	110	
Pb	208	1	No Gas	93.324	0.767	1998498	0.54	100	93.3	90	110	
U	238	1	No Gas	99.103	1.247	2458085	0.80	100	99.1	90	110	
Ca	43	2	He	10002.962	2.233	25434	2.38	10000	100.0	90	110	
Sb	121	2	He	97.962	0.818	426019	0.79	100	98.0	90	110	
Ti	47	2	He	99.064	2.532	19561	3.26	100	99.1	90	110	
Cu	63	1	No Gas	100.157	0.342	500447	0.50	100	100.2	90	110	
Se	82	1	No Gas	96.624	7.390	7282	6.92	100	96.6	90	110	

QC ISTD Table

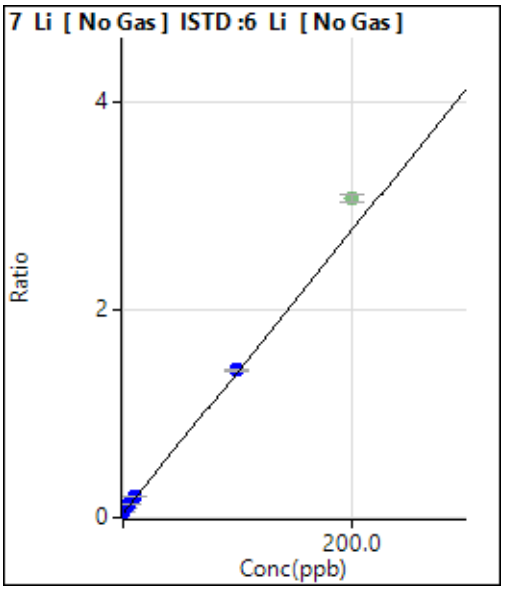
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	328417	0.56	330976	99.23	70	120	
Ge	72	2	He	485236	0.76	477078	101.71	70	120	
Ge	72	1	No Gas	900906	0.48	892758	100.91	70	120	
In	115	1	No Gas	1034017	0.76	1030948	100.30	70	120	
Bi	209	1	No Gas	1141048	0.47	1120748	101.81	70	120	

Calibration for 027_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\082823C.b\
Analysis File: 082823C.batch.bin
DA Date-Time: 8/28/2023 10:48:36 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	020CALB.d	CAL BLK	8/28/2023 5:35:21 PM
2	021CALS.d	2/10/200	8/28/2023 5:37:40 PM
3	022CALS.d	5/25/500	8/28/2023 5:39:59 PM
4	023CALS.d	10/50/100	8/28/2023 5:42:18 PM
5	024CALS.d	100/500/10K	8/28/2023 5:44:36 PM
6	025CALS.d	200/1000/20K	8/28/2023 5:46:52 PM

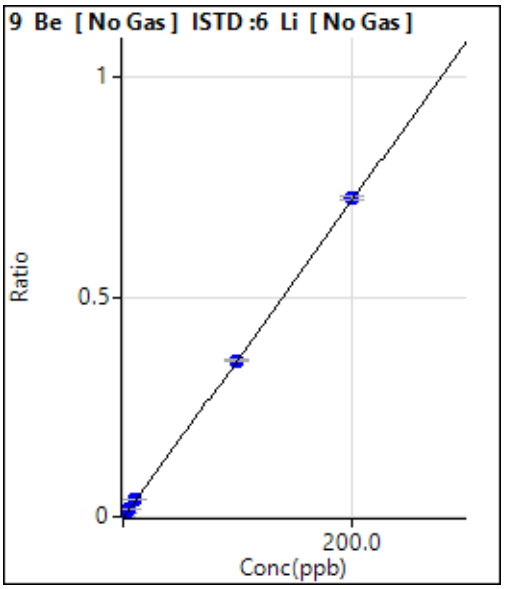
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19755.60	0.0597	P	1.2	
2	☐	2.000	2.155	29345.68	0.0890	P	0.7	7.8
3	☐	5.000	5.252	43431.88	0.1311	P	0.5	5.0
4	☐	10.000	10.735	67961.87	0.2057	P	2.1	7.4
5	☐	100.000	99.911	467265.77	1.4182	P	1.0	-0.1
6	☑	200.000		978234.75	3.0742	A	2.7	

y = 0.0136 * x + 0.0597
R = 1.0000
DL = 0.1641 ppb
BEC = 4.39 ppb

Weight: <None>
Min Conc: <None>

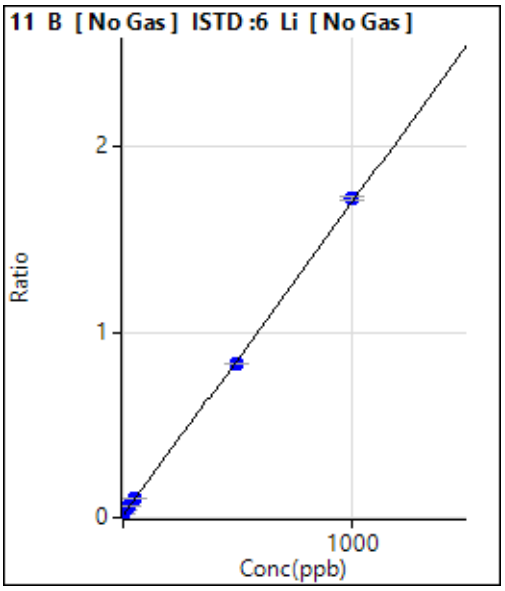


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41.67	0.0001	P	18.3	
2	☐	2.000	1.995	2418.57	0.0073	P	2.1	-0.3
3	☐	5.000	5.097	6144.72	0.0185	P	3.1	1.9
4	☐	10.000	10.358	12413.89	0.0376	P	1.8	3.6
5	☐	100.000	98.157	116931.70	0.3549	P	1.3	-1.8
6	☐	200.000	200.901	231113.10	0.7262	P	1.0	0.5

y = 0.0036 * x + 1.2589E-004
R = 0.9999
DL = 0.01916 ppb
BEC = 0.03483 ppb

Weight: <None>
Min Conc: <None>

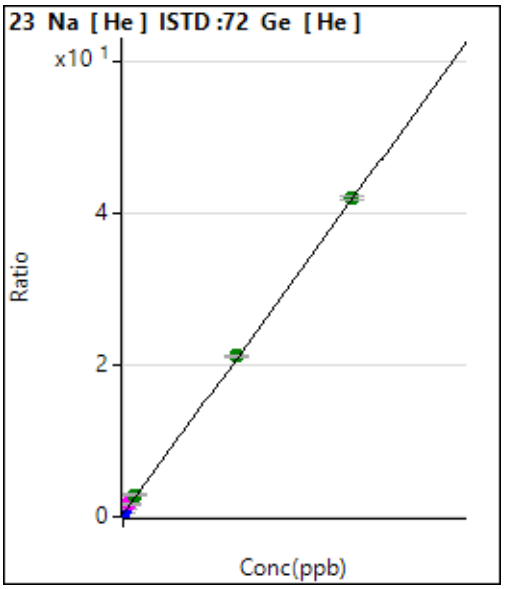
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7055.16	0.0213	P	4.0	
2	☐	10.000	9.761	12457.26	0.0378	P	3.3	-2.4
3	☐	25.000	25.984	21576.65	0.0651	P	0.9	3.9
4	☐	50.000	51.688	35849.13	0.1085	P	0.6	3.4
5	☐	500.000	480.849	274171.61	0.8321	P	0.8	-3.8
6	☐	1000.000	1009.469	548463.38	1.7234	P	0.7	0.9

y = 0.0017 * x + 0.0213
R = 0.9997
DL = 1.534 ppb
BEC = 12.64 ppb

Weight: <None>
Min Conc: <None>

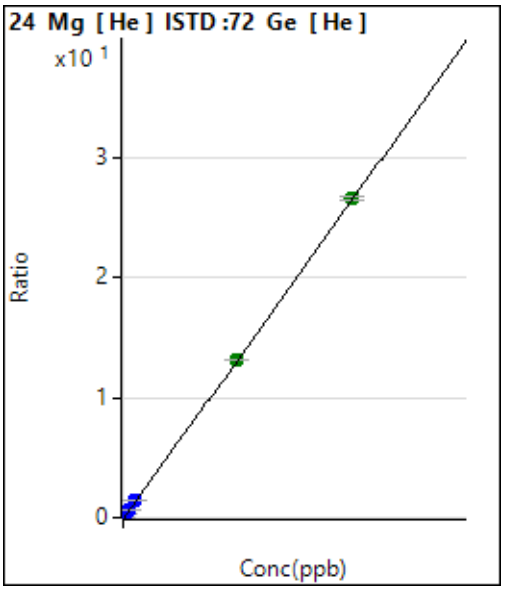


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	261740.41	0.5486	P	0.3	
2	☐	200.000	210.674	467344.97	0.9842	P	0.8	5.3
3	☐	500.000	542.713	799573.71	1.6707	M	4.9	8.5
4	☐	1000.000	1126.801	1378157.37	2.8783	A	2.1	12.7
5	☐	10000.00	9942.104	10194985.8	21.1039	A	1.1	-0.6
6	☐	20000.00	20021.43	19831536.7	41.9429	A	0.8	0.1

y = 0.0021 * x + 0.5486
R = 1.0000
DL = 2.693 ppb
BEC = 265.4 ppb

Weight: <None>
Min Conc: <None>

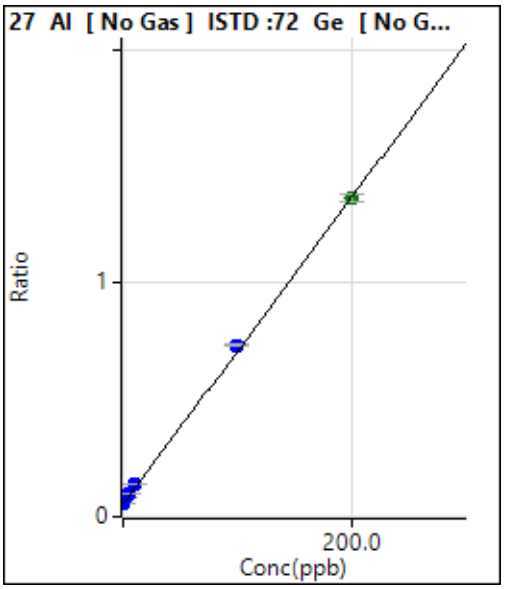
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1883.53	0.0039	P	9.0	
2	☐	200.000	202.338	129497.51	0.2727	P	1.5	1.2
3	☐	500.000	514.115	328718.16	0.6869	P	0.5	2.8
4	☐	1000.000	1031.823	658247.77	1.3746	P	0.9	3.2
5	☐	10000.00	9917.784	6366402.41	13.1783	A	0.3	-0.8
6	☐	20000.00	20039.14	12587801.4	26.6230	A	1.1	0.2

y = 0.0013 * x + 0.0039
R = 1.0000
DL = 0.8021 ppb
BEC = 2.971 ppb

Weight: <None>
Min Conc: <None>

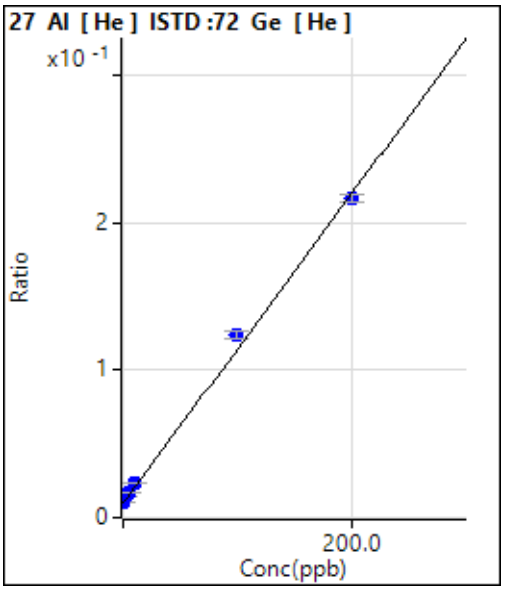


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54169.10	0.0607	P	0.6	
2	☐	2.000	3.501	75434.44	0.0837	P	1.0	75.1
3	☐	5.000	6.301	91634.47	0.1020	P	0.2	26.0
4	☐	10.000	11.520	121706.17	0.1363	P	0.7	15.2
5	☐	100.000	102.498	661379.65	0.7335	P	1.2	2.5
6	☐	200.000	198.628	1204452.87	1.3645	A	2.4	-0.7

y = 0.0066 * x + 0.0607
R = 0.9999
DL = 0.1688 ppb
BEC = 9.243 ppb

Weight: <None>
Min Conc: <None>

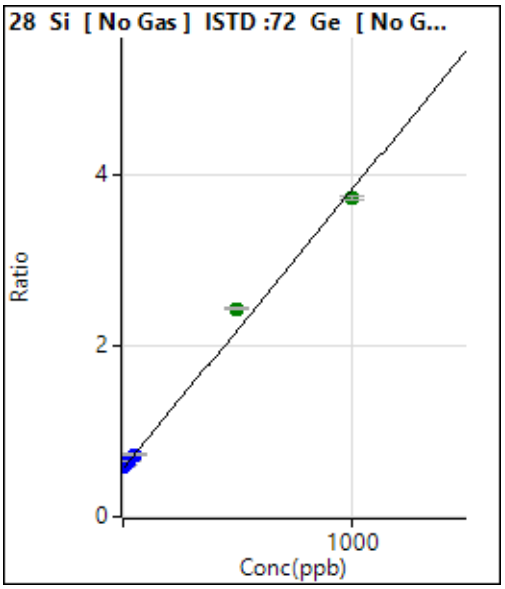
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5147.71	0.0108	P	1.8	
2	☐	2.000	3.526	6878.48	0.0145	P	6.9	76.3
3	☐	5.000	5.828	8089.17	0.0169	P	5.0	16.6
4	☐	10.000	11.703	11044.60	0.0231	P	1.8	17.0
5	☐	100.000	107.748	59818.84	0.1238	P	3.2	7.7
6	☐	200.000	196.005	102321.48	0.2164	P	2.0	-2.0

y = 0.0010 * x + 0.0108
R = 0.9990
DL = 0.5553 ppb
BEC = 10.29 ppb

Weight: <None>
Min Conc: <None>

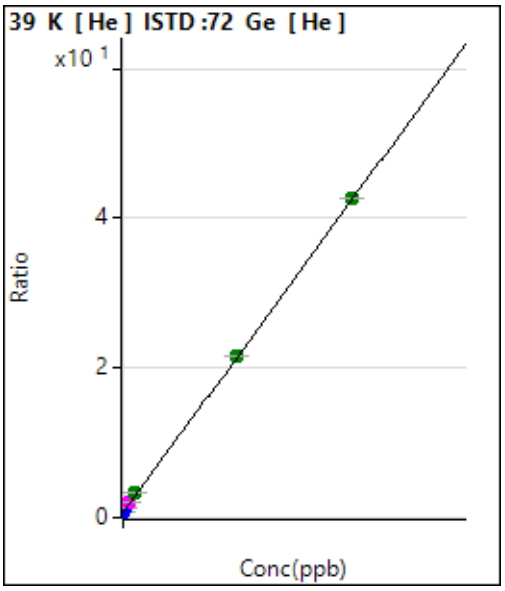


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520915.50	0.5835	P	0.2	
2	☐	10.000	6.954	546612.38	0.6062	P	0.0	-30.5
3	☐	25.000	20.171	583138.57	0.6493	P	0.4	-19.3
4	☐	50.000	44.489	650656.24	0.7287	P	1.0	-11.0
5	☐	500.000	568.406	2199211.06	2.4389	A	1.3	13.7
6	☐	1000.000	966.224	3298985.26	3.7374	A	1.2	-3.4

y = 0.0033 * x + 0.5835
R = 0.9965
DL = 1.178 ppb
BEC = 178.8 ppb

Weight: <None>
Min Conc: <None>

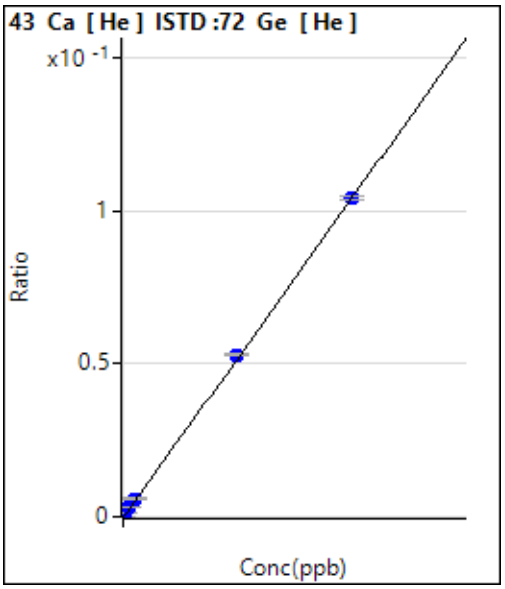
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426854.82	0.8948	P	0.8	
2	☐	200.000	199.994	623155.03	1.3123	P	1.1	0.0
3	☐	500.000	536.201	964039.07	2.0144	M	4.8	7.2
4	☐	1000.000	1137.562	1565955.44	3.2700	A	1.5	13.8
5	☐	10000.00	9948.123	10467148.5	21.6669	A	0.4	-0.5
6	☐	20000.00	20018.15	20186892.2	42.6935	A	0.4	0.1

y = 0.0021 * x + 0.8948
R = 1.0000
DL = 10.65 ppb
BEC = 428.5 ppb

Weight: <None>
Min Conc: <None>

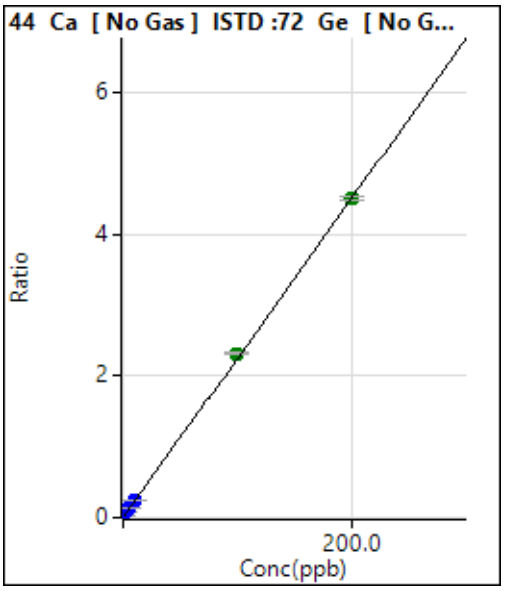


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.67	0.0001	P	22.6	
2	☐	200.000	240.602	663.36	0.0014	P	5.8	20.3
3	☐	500.000	549.065	1440.10	0.0030	P	4.4	9.8
4	☐	1000.000	1112.471	2850.35	0.0060	P	6.9	11.2
5	☐	10000.00	10128.99	25640.86	0.0531	P	1.9	1.3
6	☐	20000.00	19928.24	49308.64	0.1043	P	1.8	-0.4

y = 5.2260E-006 * x + 1.3966E-004
R = 1.0000
DL = 18.14 ppb
BEC = 26.72 ppb

Weight: <None>
Min Conc: <None>

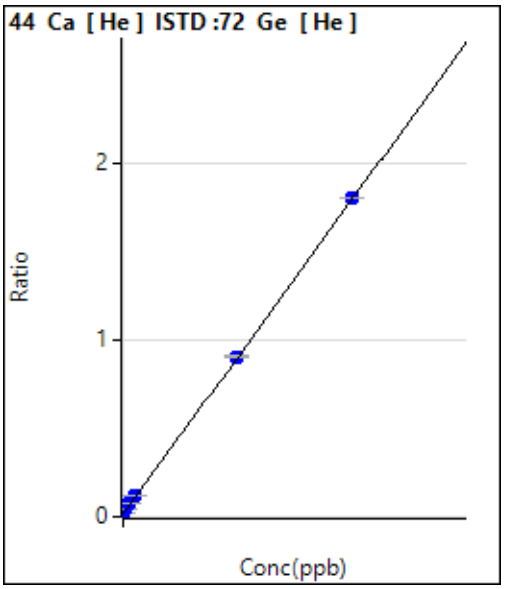
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22044.64	0.0247	P	1.0	
2	☐	2.000	2.018	63231.75	0.0701	P	2.9	0.9
3	☐	5.000	5.104	125387.77	0.1396	P	0.5	2.1
4	☐	10.000	10.294	229035.94	0.2565	P	0.5	2.9
5	☐	100.000	101.952	2092490.12	2.3205	A	0.7	2.0
6	☐	200.000	199.007	3977421.40	4.5060	A	0.8	-0.5

y = 0.0225 * x + 0.0247
R = 0.9999
DL = 0.03166 ppb
BEC = 1.097 ppb

Weight: <None>
Min Conc: <None>

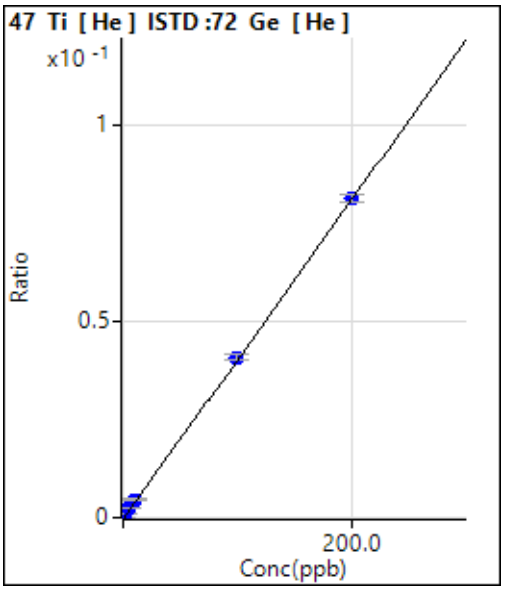


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11555.06	0.0242	P	0.4	
2	☐	200.000	223.406	20936.28	0.0441	P	0.6	11.7
3	☐	500.000	529.574	34132.63	0.0713	P	1.3	5.9
4	☐	1000.000	1082.095	57677.72	0.1205	P	2.4	8.2
5	☐	10000.00	9935.692	438599.86	0.9079	P	0.9	-0.6
6	☐	20000.00	20027.07	853670.95	1.8055	P	0.3	0.1

y = 8.8941E-005 * x + 0.0242
R = 1.0000
DL = 2.949 ppb
BEC = 272.3 ppb

Weight: <None>
Min Conc: <None>

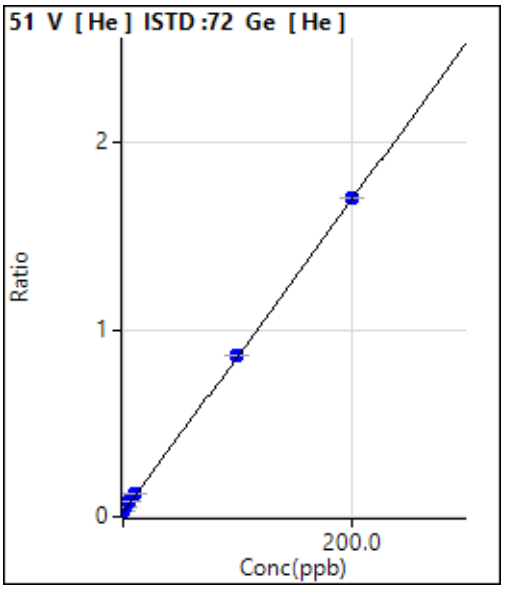
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	0.7	
2	☐	2.000	2.365	466.68	0.0010	P	7.0	18.2
3	☐	5.000	5.653	1110.07	0.0023	P	5.6	13.1
4	☐	10.000	11.110	2173.55	0.0045	P	6.6	11.1
5	☐	100.000	99.978	19654.46	0.0407	P	3.6	0.0
6	☐	200.000	199.935	38457.49	0.0813	P	2.3	0.0

y = 4.0667E-004 * x + 2.0962E-005
R = 1.0000
DL = 0.001027 ppb
BEC = 0.05154 ppb

Weight: <None>
Min Conc: <None>

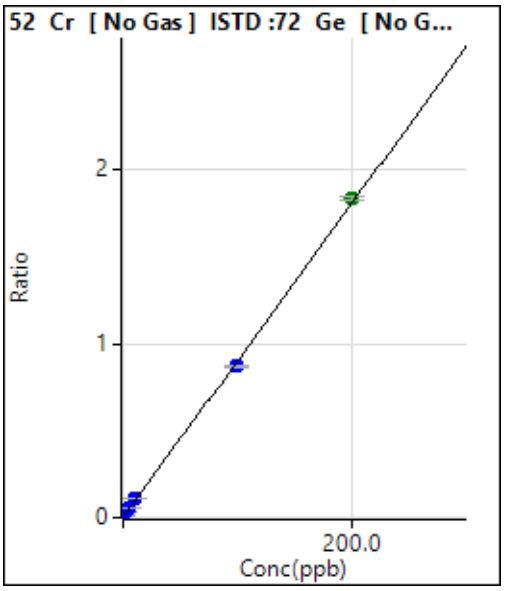


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14722.42	0.0309	P	2.1	
2	☐	2.000	2.437	24328.28	0.0512	P	0.2	21.9
3	☐	5.000	5.727	37678.30	0.0787	P	1.2	14.5
4	☐	10.000	11.324	60102.11	0.1255	P	2.4	13.2
5	☐	100.000	99.508	416740.64	0.8626	P	0.6	-0.5
6	☐	200.000	200.157	805685.32	1.7040	P	0.5	0.1

y = 0.0084 * x + 0.0309
R = 1.0000
DL = 0.2347 ppb
BEC = 3.692 ppb

Weight: <None>
Min Conc: <None>

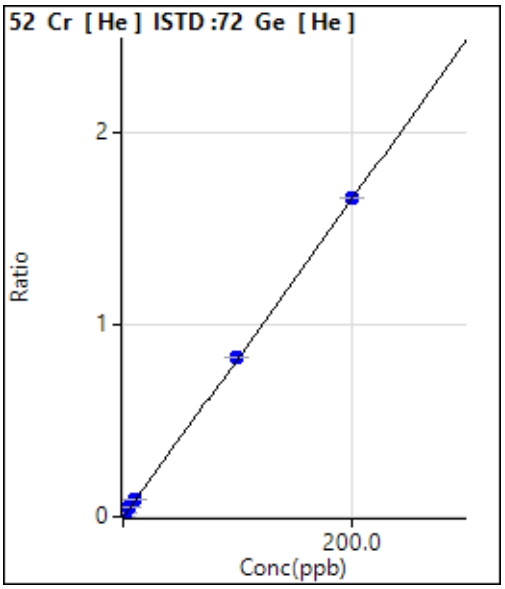
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10314.07	0.0116	P	6.3	
2	☐	2.000	2.016	26829.84	0.0298	P	0.8	0.8
3	☐	5.000	5.164	52249.98	0.0582	P	0.4	3.3
4	☐	10.000	10.454	94592.40	0.1059	P	1.2	4.5
5	☐	100.000	95.108	784673.71	0.8703	P	1.5	-4.9
6	☐	200.000	202.419	1623415.23	1.8391	A	1.6	1.2

y = 0.0090 * x + 0.0116
R = 0.9996
DL = 0.2424 ppb
BEC = 1.28 ppb

Weight: <None>
Min Conc: <None>

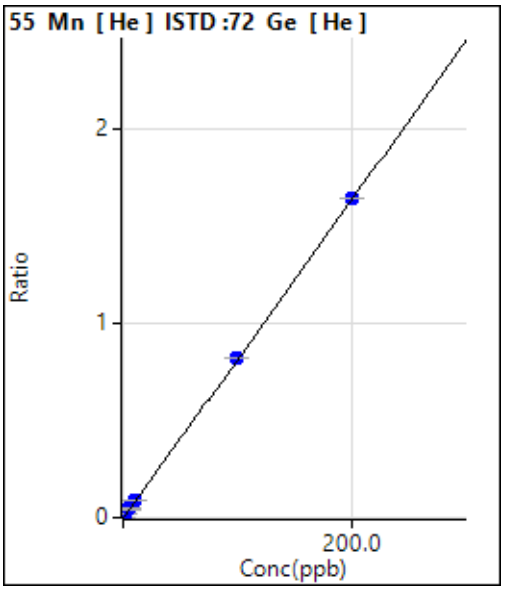


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1916.84	0.0040	P	3.8	
2	☐	2.000	2.221	10637.64	0.0224	P	4.4	11.0
3	☐	5.000	5.528	23817.58	0.0498	P	1.6	10.6
4	☐	10.000	10.880	45040.99	0.0941	P	1.4	8.8
5	☐	100.000	99.817	401031.10	0.8301	P	0.4	-0.2
6	☐	200.000	200.032	784667.44	1.6595	P	0.4	0.0

y = 0.0083 * x + 0.0040
R = 1.0000
DL = 0.05598 ppb
BEC = 0.4856 ppb

Weight: <None>
Min Conc: <None>

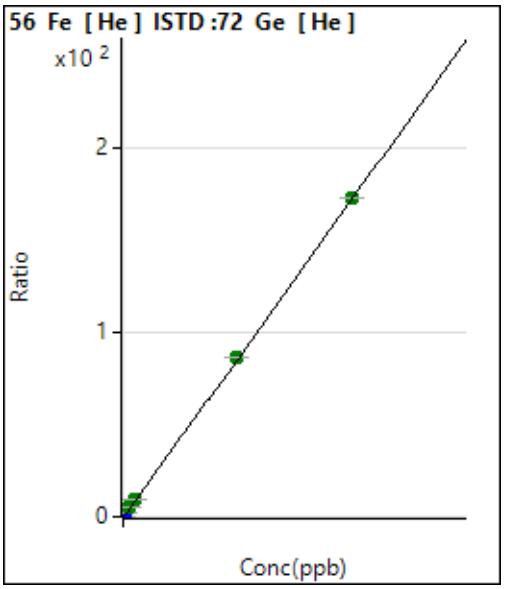
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.08	0.0027	P	2.9	
2	☐	2.000	2.075	9353.36	0.0197	P	5.0	3.7
3	☐	5.000	5.112	21333.68	0.0446	P	2.2	2.2
4	☐	10.000	10.744	43432.82	0.0907	P	1.5	7.4
5	☐	100.000	99.778	396120.37	0.8200	P	0.4	-0.2
6	☐	200.000	200.070	776115.59	1.6414	P	0.4	0.0

y = 0.0082 * x + 0.0027
R = 1.0000
DL = 0.02865 ppb
BEC = 0.3301 ppb

Weight: <None>
Min Conc: <None>

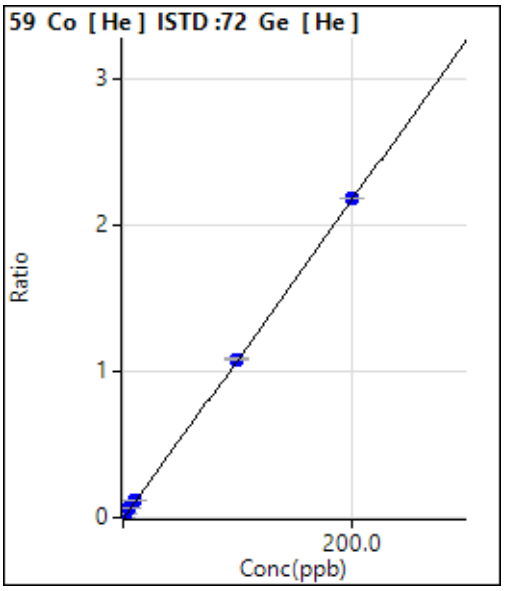


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	49187.65	0.1031	P	0.1	
2	☐	200.000	209.977	911137.07	1.9188	P	0.9	5.0
3	☐	500.000	563.692	2382086.16	4.9775	A	0.8	12.7
4	☐	1000.000	1103.338	4618358.47	9.6439	A	0.8	10.3
5	☐	10000.00	9975.617	41722206.0	86.3647	A	0.5	-0.2
6	☐	20000.00	20005.33	81844063.7	173.094	A	0.3	0.0

y = 0.0086 * x + 0.1031
R = 1.0000
DL = 0.03999 ppb
BEC = 11.92 ppb

Weight: <None>
Min Conc: <None>

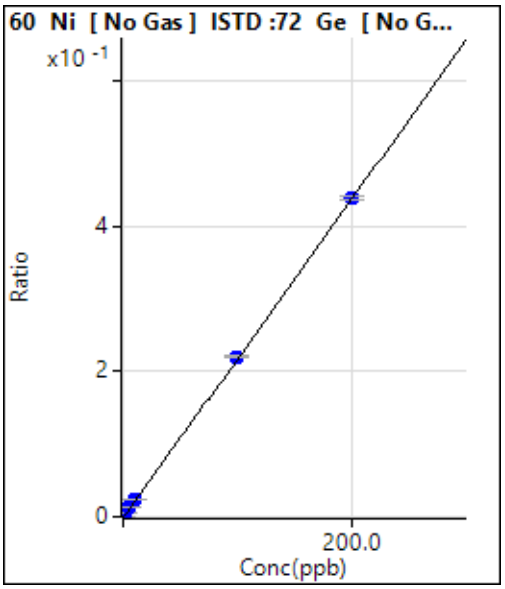
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.68	0.0007	P	23.4	
2	☐	2.000	2.070	11024.61	0.0232	P	1.3	3.5
3	☐	5.000	5.453	28757.46	0.0601	P	2.3	9.1
4	☐	10.000	10.940	57404.55	0.1199	P	1.4	9.4
5	☐	100.000	99.302	523050.18	1.0827	P	1.1	-0.7
6	☐	200.000	200.290	1032280.32	2.1832	P	0.0	0.1

y = 0.0109 * x + 6.6433E-004
R = 1.0000
DL = 0.04284 ppb
BEC = 0.06097 ppb

Weight: <None>
Min Conc: <None>

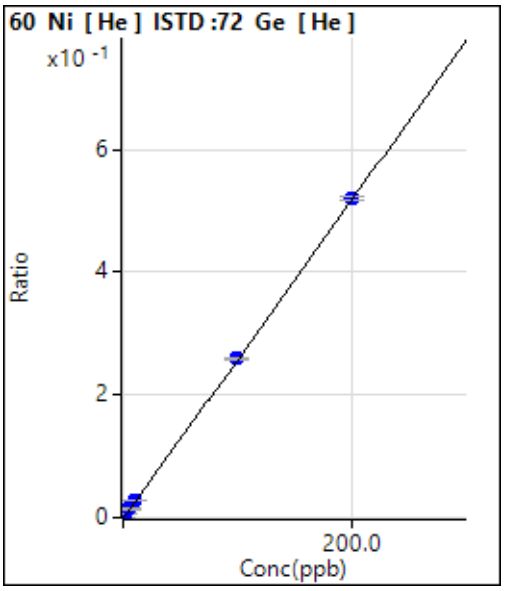


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.01	0.0005	P	17.3	
2	☐	2.000	2.284	4974.33	0.0055	P	5.2	14.2
3	☐	5.000	5.427	11144.73	0.0124	P	2.9	8.5
4	☐	10.000	11.007	22014.69	0.0247	P	0.7	10.1
5	☐	100.000	100.255	198801.60	0.2205	P	0.5	0.3
6	☐	200.000	199.809	387412.36	0.4389	P	0.9	-0.1

y = 0.0022 * x + 5.0406E-004
R = 1.0000
DL = 0.1195 ppb
BEC = 0.2297 ppb

Weight: <None>
Min Conc: <None>

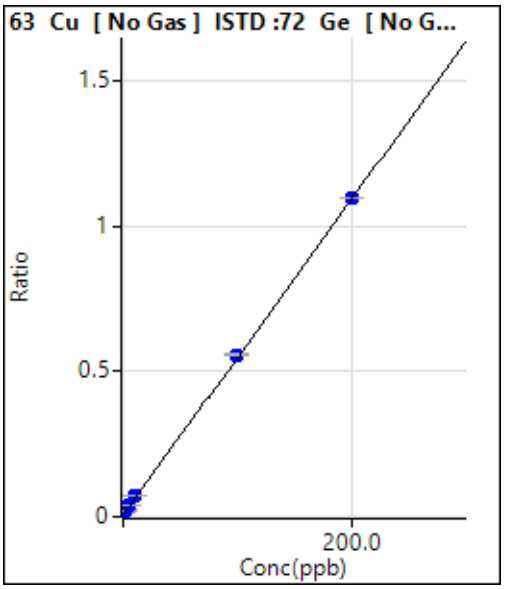
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0003	P	42.0	
2	☐	2.000	2.038	2680.32	0.0056	P	5.4	1.9
3	☐	5.000	5.359	6831.84	0.0143	P	2.9	7.2
4	☐	10.000	10.447	13173.25	0.0275	P	3.1	4.5
5	☐	100.000	99.569	125168.47	0.2591	P	0.6	-0.4
6	☐	200.000	200.184	246134.27	0.5206	P	0.7	0.1

y = 0.0026 * x + 3.4873E-004
R = 1.0000
DL = 0.1693 ppb
BEC = 0.1342 ppb

Weight: <None>
Min Conc: <None>

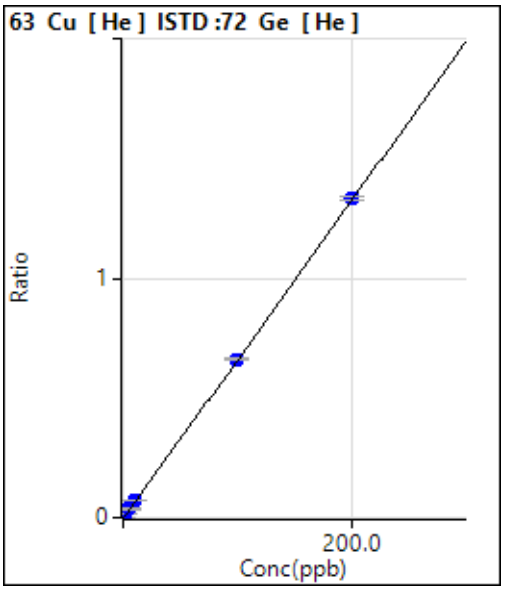


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10230.66	0.0115	P	4.7	
2	☐	2.000	2.105	20642.59	0.0229	P	2.9	5.2
3	☐	5.000	5.374	36509.47	0.0407	P	1.4	7.5
4	☐	10.000	10.774	62486.92	0.0700	P	1.6	7.7
5	☐	100.000	100.333	501769.15	0.5565	P	0.8	0.3
6	☐	200.000	199.784	967999.00	1.0967	P	0.4	-0.1

y = 0.0054 * x + 0.0115
R = 1.0000
DL = 0.2979 ppb
BEC = 2.11 ppb

Weight: <None>
Min Conc: <None>

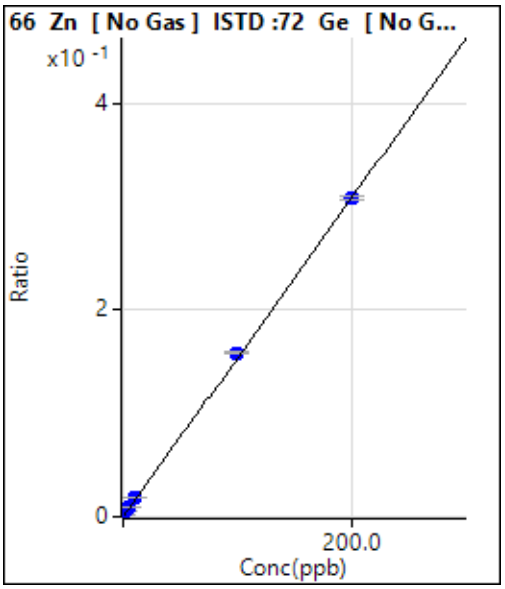
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.70	0.0015	P	3.2	
2	☐	2.000	2.183	7602.30	0.0160	P	4.6	9.2
3	☐	5.000	5.305	17588.32	0.0368	P	4.8	6.1
4	☐	10.000	10.668	34664.51	0.0724	P	1.2	6.7
5	☐	100.000	99.047	318662.13	0.6596	P	1.3	-1.0
6	☐	200.000	200.434	630430.32	1.3333	P	0.9	0.2

y = 0.0066 * x + 0.0015
R = 1.0000
DL = 0.02199 ppb
BEC = 0.2261 ppb

Weight: <None>
Min Conc: <None>

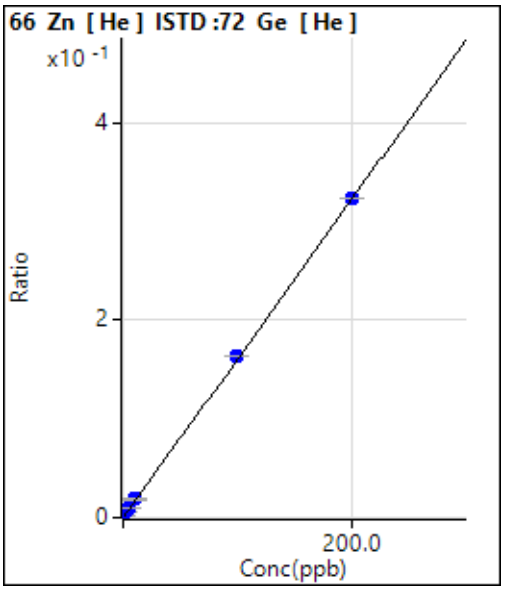


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1133.40	0.0013	P	3.0	
2	☐	2.000	2.576	4730.92	0.0052	P	3.5	28.8
3	☐	5.000	5.703	9046.47	0.0101	P	0.3	14.1
4	☐	10.000	11.103	16436.86	0.0184	P	2.5	11.0
5	☐	100.000	101.846	142912.77	0.1585	P	0.5	1.8
6	☐	200.000	198.999	272263.31	0.3085	P	1.3	-0.5

y = 0.0015 * x + 0.0013
R = 0.9999
DL = 0.07412 ppb
BEC = 0.8225 ppb

Weight: <None>
Min Conc: <None>

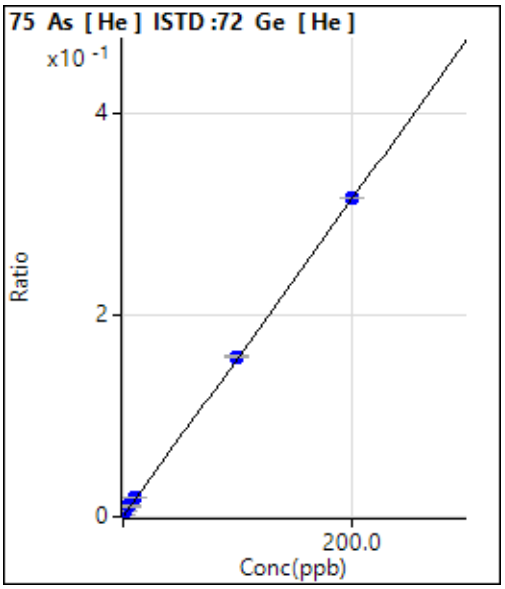
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	646.70	0.0014	P	11.7	
2	☐	2.000	2.424	2500.28	0.0053	P	2.9	21.2
3	☐	5.000	5.371	4794.27	0.0100	P	3.0	7.4
4	☐	10.000	10.654	8876.39	0.0185	P	3.2	6.5
5	☐	100.000	100.463	78935.82	0.1634	P	0.7	0.5
6	☐	200.000	199.722	152961.78	0.3235	P	0.3	-0.1

y = 0.0016 * x + 0.0014
R = 1.0000
DL = 0.2957 ppb
BEC = 0.84 ppb

Weight: <None>
Min Conc: <None>

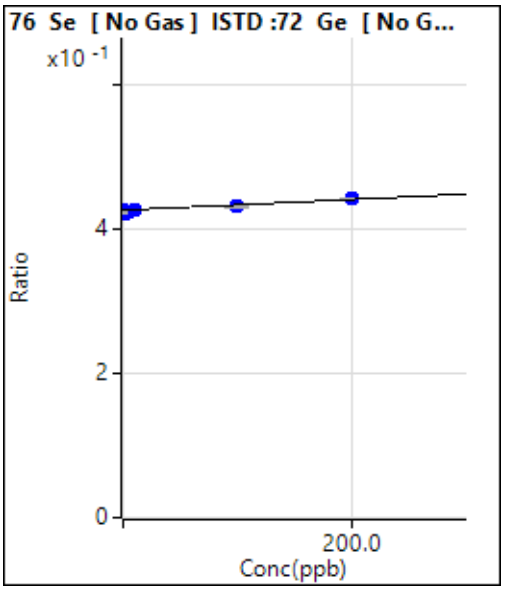


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	855.59	0.0018	P	4.5	
2	☐	2.000	2.166	2472.46	0.0052	P	6.2	8.3
3	☐	5.000	5.525	5025.41	0.0105	P	2.3	10.5
4	☐	10.000	10.922	9104.22	0.0190	P	1.2	9.2
5	☐	100.000	99.981	76991.21	0.1594	P	0.8	0.0
6	☐	200.000	199.948	149854.98	0.3169	P	0.1	0.0

y = 0.0016 * x + 0.0018
R = 1.0000
DL = 0.1522 ppb
BEC = 1.138 ppb

Weight: <None>
Min Conc: <None>

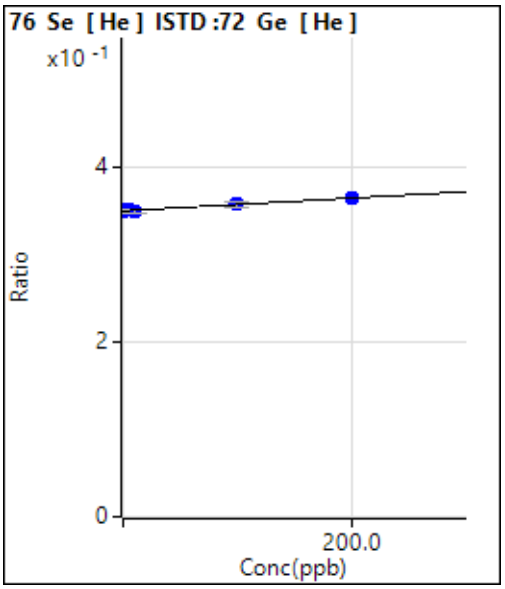
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	381195.84	0.4270	P	0.8	
2	☐	2.000	-63.274	380755.72	0.4223	P	1.2	-3263.
3	☐	5.000	-44.262	380499.50	0.4237	P	0.4	-985.2
4	☐	10.000	4.293	381551.80	0.4273	P	0.5	-57.1
5	☐	100.000	64.909	389378.16	0.4318	P	0.7	-35.1
6	☐	200.000	219.715	391350.55	0.4434	P	0.4	9.9

y = 7.4506E-005 * x + 0.4270
R = 0.9641
DL = 134.4 ppb
BEC = 5731 ppb

Weight: <None>
Min Conc: <None>

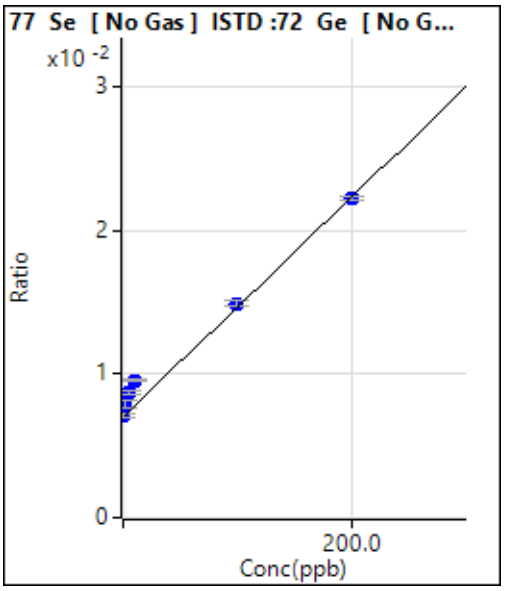


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	167113.54	0.3503	P	0.5	
2	☐	2.000	8.582	166640.88	0.3509	P	1.1	329.1
3	☐	5.000	7.639	167909.61	0.3509	P	0.6	52.8
4	☐	10.000	-2.645	167646.09	0.3501	P	1.2	-126.4
5	☐	100.000	100.977	172820.47	0.3577	P	1.6	1.0
6	☐	200.000	200.012	172603.52	0.3650	P	0.4	0.0

y = 7.3705E-005 * x + 0.3503
R = 0.9969
DL = 67.56 ppb
BEC = 4753 ppb

Weight: <None>
Min Conc: <None>

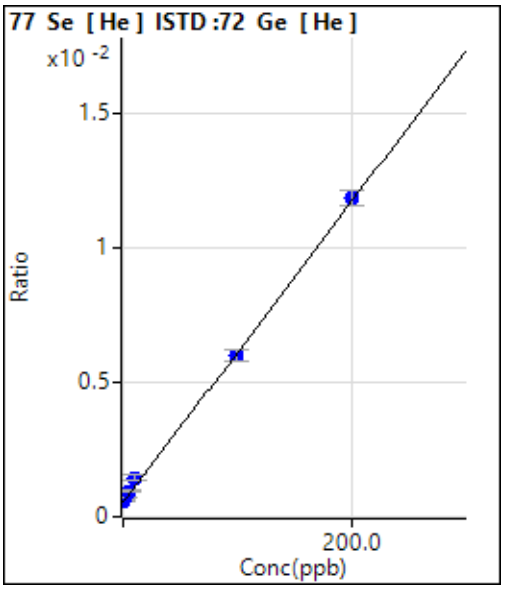
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6378.29	0.0071	P	4.1	
2	☐	2.000	9.837	7122.01	0.0079	P	7.3	391.9
3	☐	5.000	20.146	7799.10	0.0087	P	2.8	302.9
4	☐	10.000	31.868	8556.21	0.0096	P	1.8	218.7
5	☐	100.000	101.943	13470.26	0.0149	P	2.2	1.9
6	☐	200.000	197.478	19634.68	0.0222	P	1.2	-1.3

y = 7.6466E-005 * x + 0.0071
R = 0.9950
DL = 11.52 ppb
BEC = 93.43 ppb

Weight: <None>
Min Conc: <None>

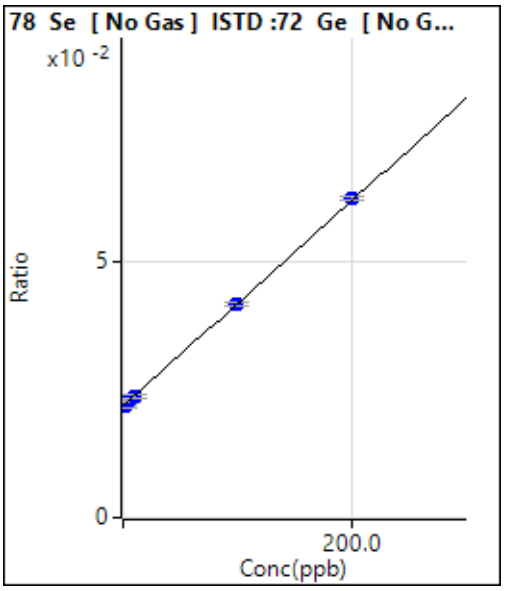


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0006	P	8.7	
2	☐	2.000	1.809	330.01	0.0007	P	2.5	-9.5
3	☐	5.000	6.326	453.35	0.0009	P	8.8	26.5
4	☐	10.000	15.399	696.70	0.0015	P	13.1	54.0
5	☐	100.000	96.725	2897.04	0.0060	P	7.8	-3.3
6	☐	200.000	201.337	5597.92	0.0118	P	5.0	0.7

y = 5.5860E-005 * x + 5.9386E-004
R = 0.9994
DL = 2.781 ppb
BEC = 10.63 ppb

Weight: <None>
Min Conc: <None>

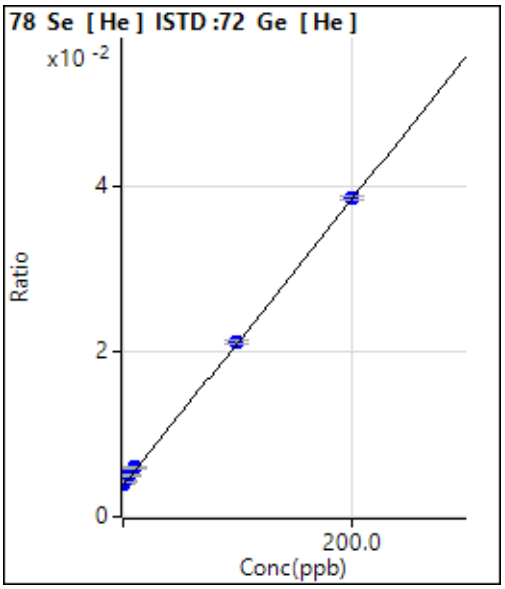
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19781.52	0.0222	P	3.0	
2	☐	2.000	-2.118	19597.86	0.0217	P	3.1	-205.9
3	☐	5.000	3.293	20489.22	0.0228	P	2.5	-34.1
4	☐	10.000	7.832	21180.34	0.0237	P	2.2	-21.7
5	☐	100.000	97.831	37602.75	0.0417	P	2.1	-2.2
6	☐	200.000	201.277	55056.12	0.0624	P	1.6	0.6

y = 1.9981E-004 * x + 0.0222
R = 0.9998
DL = 10.09 ppb
BEC = 110.9 ppb

Weight: <None>
Min Conc: <None>

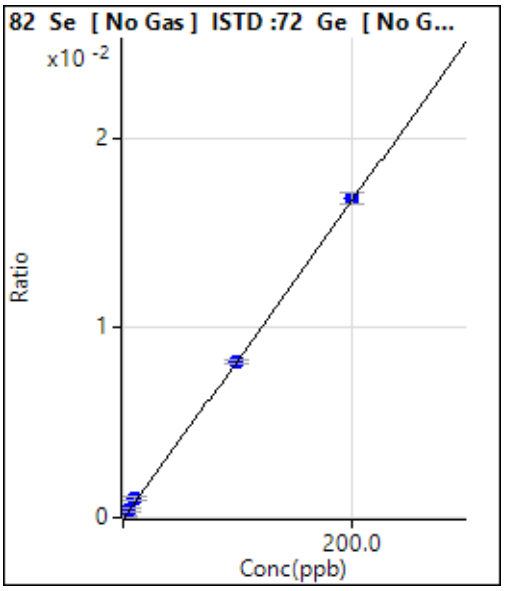


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1898.81	0.0040	P	1.6	
2	☐	2.000	1.997	2054.17	0.0043	P	3.2	-0.1
3	☐	5.000	6.332	2430.23	0.0051	P	3.9	26.6
4	☐	10.000	11.731	2880.32	0.0060	P	4.1	17.3
5	☐	100.000	99.521	10259.25	0.0212	P	2.5	-0.5
6	☐	200.000	200.120	18291.05	0.0387	P	0.7	0.1

y = 1.7341E-004 * x + 0.0040
R = 1.0000
DL = 1.091 ppb
BEC = 22.95 ppb

Weight: <None>
Min Conc: <None>

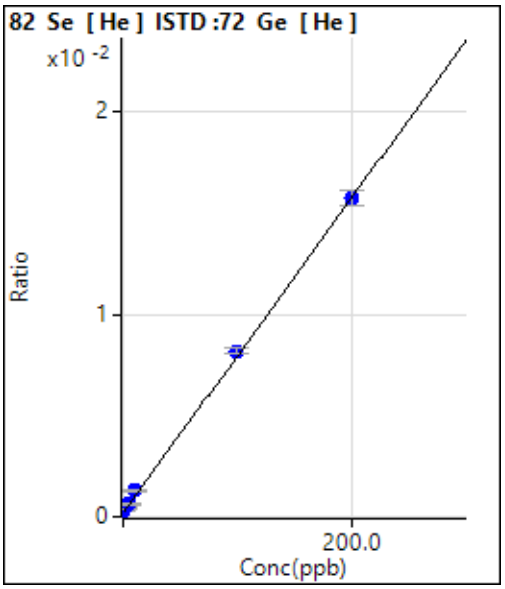
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-16.30	0.0000	P	-197.	
2	☐	2.000	0.568	26.55	0.0000	P	38.0	-71.6
3	☐	5.000	4.993	359.97	0.0004	P	50.0	-0.1
4	☐	10.000	11.978	880.22	0.0010	P	14.8	19.8
5	☐	100.000	98.089	7402.46	0.0082	P	3.3	-1.9
6	☐	200.000	200.871	14852.56	0.0168	P	4.1	0.4

y = 8.3866E-005 * x - 1.8234E-005
R = 0.9998
DL = 1.286 ppb
BEC = -0.2174 ppb

Weight: <None>
Min Conc: <None>

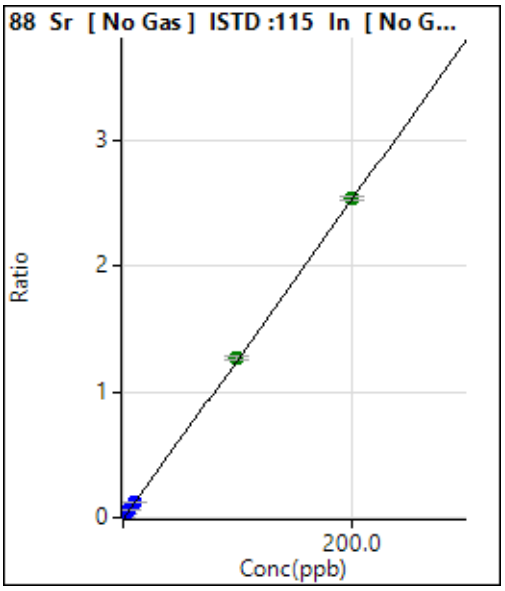


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0003	P	23.7	
2	☐	2.000	1.997	203.34	0.0004	P	21.9	-0.1
3	☐	5.000	4.647	303.34	0.0006	P	20.3	-7.1
4	☐	10.000	12.968	613.36	0.0013	P	4.5	29.7
5	☐	100.000	101.789	3953.98	0.0082	P	4.1	1.8
6	☐	200.000	198.966	7442.19	0.0157	P	4.4	-0.5

y = 7.7723E-005 * x + 2.7278E-004
R = 0.9998
DL = 2.496 ppb
BEC = 3.51 ppb

Weight: <None>
Min Conc: <None>

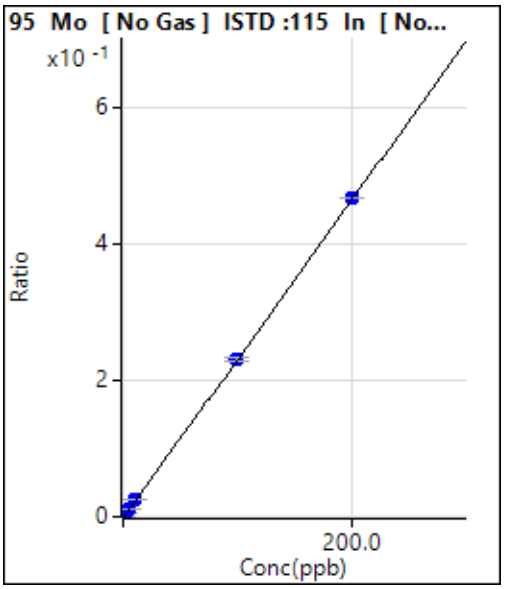
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	20.4	
2	☐	2.000	1.959	26192.75	0.0253	P	1.7	-2.1
3	☐	5.000	4.887	64672.98	0.0624	P	0.2	-2.3
4	☐	10.000	9.936	130997.57	0.1263	P	0.5	-0.6
5	☐	100.000	99.898	1310977.92	1.2658	A	1.7	-0.1
6	☐	200.000	200.058	2574710.01	2.5345	A	0.9	0.0

y = 0.0127 * x + 4.5934E-004
R = 1.0000
DL = 0.0222 ppb
BEC = 0.03626 ppb

Weight: <None>
Min Conc: <None>

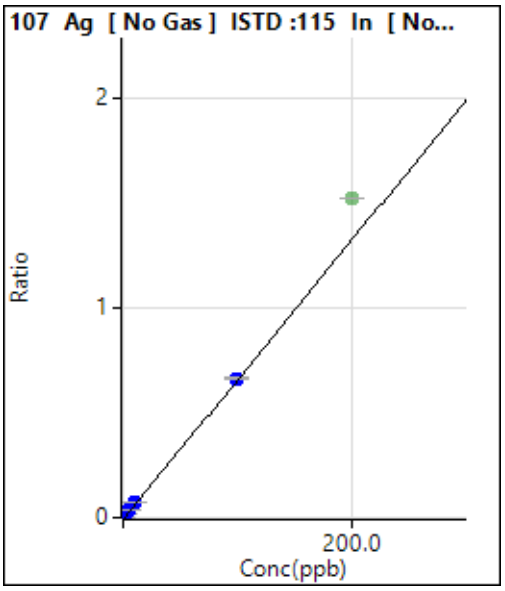


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	24.1	
2	☐	2.000	2.030	5007.69	0.0048	P	1.5	1.5
3	☐	5.000	5.252	12806.34	0.0123	P	1.8	5.0
4	☐	10.000	10.439	25357.79	0.0245	P	3.0	4.4
5	☐	100.000	99.141	239698.15	0.2314	P	2.1	-0.9
6	☐	200.000	200.401	475149.93	0.4677	P	0.5	0.2

y = 0.0023 * x + 9.3799E-005
R = 1.0000
DL = 0.02903 ppb
BEC = 0.0402 ppb

Weight: <None>
Min Conc: <None>

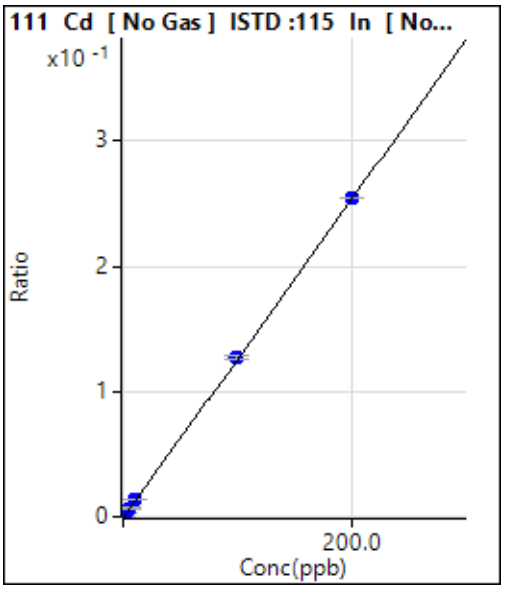
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	220.01	0.0002	P	20.2	
2	☐	2.000	2.296	16090.00	0.0155	P	1.1	14.8
3	☐	5.000	5.608	38991.26	0.0376	P	3.2	12.2
4	☐	10.000	11.143	77272.28	0.0745	P	2.3	11.4
5	☐	100.000	99.849	689668.53	0.6659	P	1.6	-0.2
6	☑	200.000		1550495.86	1.5263	A	0.2	

y = 0.0067 * x + 2.1350E-004
R = 0.9999
DL = 0.01936 ppb
BEC = 0.03202 ppb

Weight: <None>
Min Conc: <None>

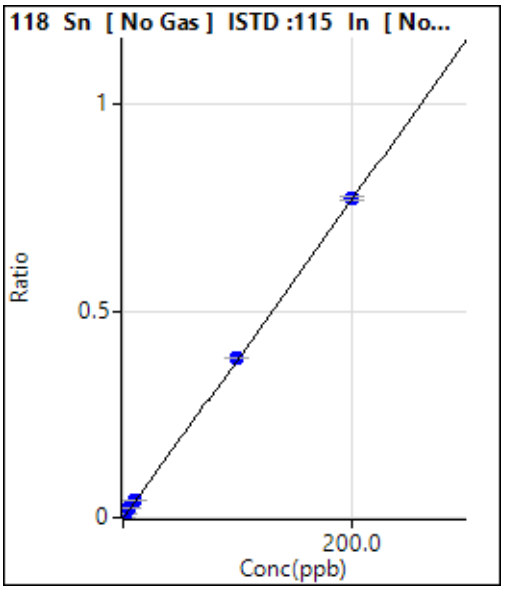


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	32.9	
2	☐	2.000	2.210	2963.72	0.0029	P	3.0	10.5
3	☐	5.000	5.276	7015.34	0.0068	P	4.9	5.5
4	☐	10.000	10.493	13900.89	0.0134	P	3.2	4.9
5	☐	100.000	100.230	132221.05	0.1277	P	2.2	0.2
6	☐	200.000	199.852	258558.99	0.2545	P	0.5	-0.1

y = 0.0013 * x + 4.5286E-005
R = 1.0000
DL = 0.03515 ppb
BEC = 0.03557 ppb

Weight: <None>
Min Conc: <None>

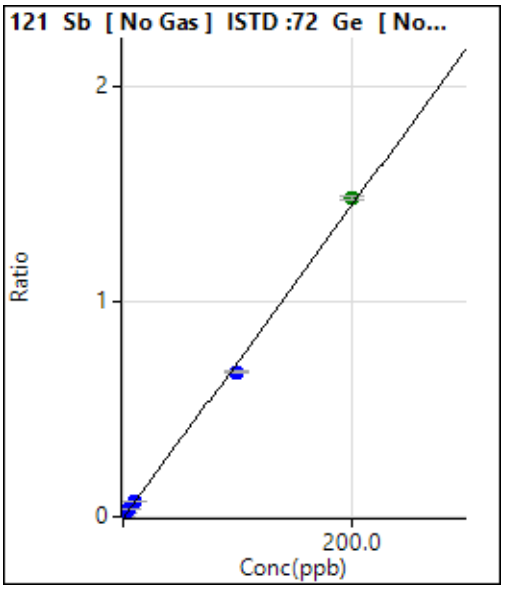
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1483.45	0.0014	P	5.6	
2	☐	2.000	2.097	9863.90	0.0095	P	4.5	4.8
3	☐	5.000	5.227	22379.43	0.0216	P	1.2	4.5
4	☐	10.000	10.427	43154.58	0.0416	P	2.0	4.3
5	☐	100.000	99.837	399911.83	0.3861	P	0.8	-0.2
6	☐	200.000	200.054	784472.41	0.7722	P	0.8	0.0

y = 0.0039 * x + 0.0014
R = 1.0000
DL = 0.06228 ppb
BEC = 0.3735 ppb

Weight: <None>
Min Conc: <None>

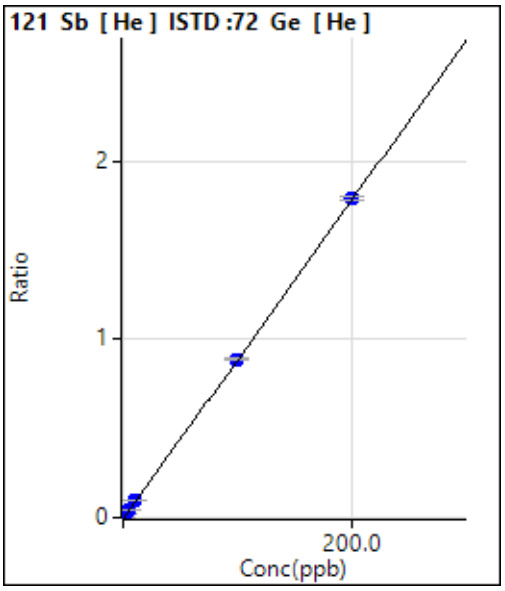


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	350.02	0.0004	P	24.3	
2	☐	2.000	1.946	13130.09	0.0146	P	3.6	-2.7
3	☐	5.000	4.949	32707.82	0.0364	P	1.1	-1.0
4	☐	10.000	9.882	64585.64	0.0723	P	1.1	-1.2
5	☐	100.000	92.347	606575.53	0.6727	P	1.2	-7.7
6	☐	200.000	203.834	1310256.62	1.4844	A	1.2	1.9

y = 0.0073 * x + 3.9200E-004
R = 0.9990
DL = 0.03932 ppb
BEC = 0.05384 ppb

Weight: <None>
Min Conc: <None>

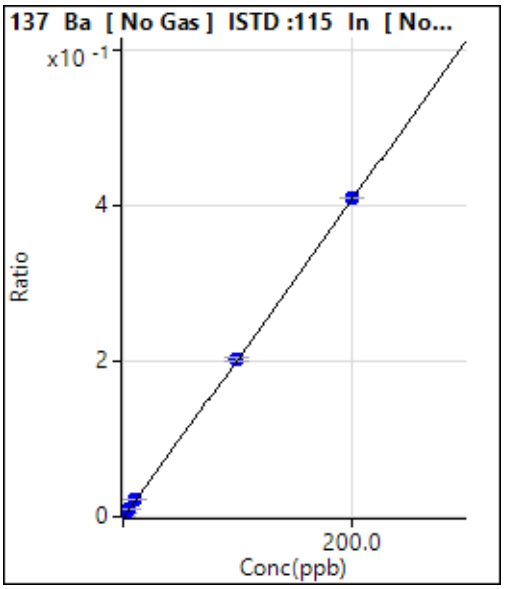
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.68	0.0005	P	10.3	
2	☐	2.000	2.088	9116.65	0.0192	P	2.4	4.4
3	☐	5.000	5.119	22182.42	0.0464	P	2.6	2.4
4	☐	10.000	10.688	46087.86	0.0962	P	0.5	6.9
5	☐	100.000	99.418	430438.54	0.8910	P	0.9	-0.6
6	☐	200.000	200.253	848354.23	1.7942	P	0.8	0.1

y = 0.0090 * x + 4.9599E-004
R = 1.0000
DL = 0.01718 ppb
BEC = 0.05537 ppb

Weight: <None>
Min Conc: <None>

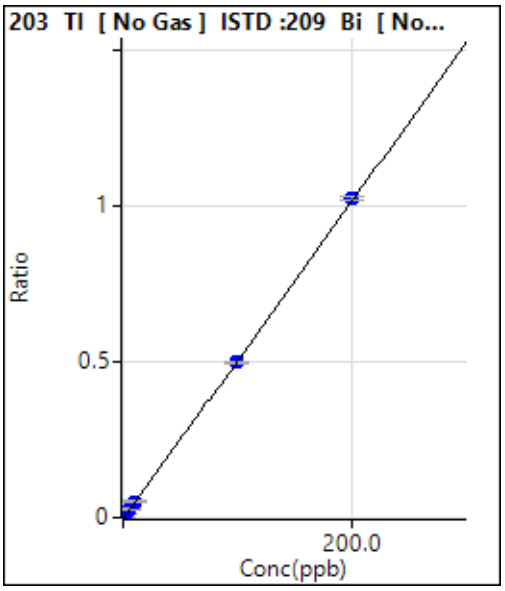


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	36.1	
2	☐	2.000	2.109	4567.57	0.0044	P	9.8	5.5
3	☐	5.000	5.276	11288.41	0.0109	P	0.8	5.5
4	☐	10.000	10.791	22980.75	0.0222	P	3.0	7.9
5	☐	100.000	99.037	209856.39	0.2026	P	2.1	-1.0
6	☐	200.000	200.434	416491.11	0.4100	P	0.6	0.2

y = 0.0020 * x + 9.3706E-005
R = 1.0000
DL = 0.04968 ppb
BEC = 0.04582 ppb

Weight: <None>
Min Conc: <None>

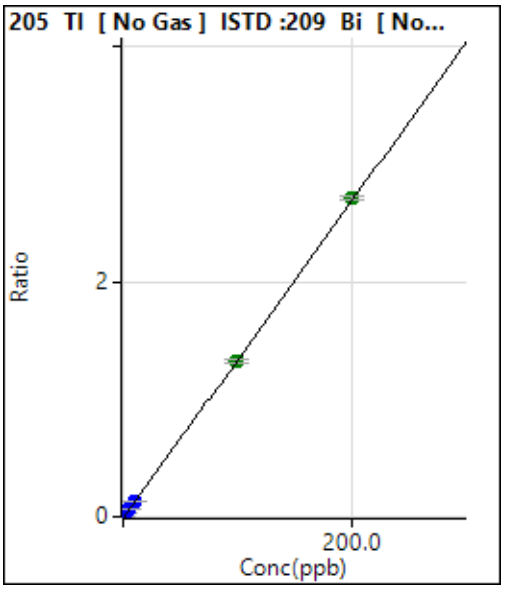
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.68	0.0002	P	4.1	
2	☐	2.000	2.182	12910.26	0.0114	P	3.0	9.1
3	☐	5.000	5.391	31643.68	0.0278	P	0.6	7.8
4	☐	10.000	10.211	59484.83	0.0523	P	1.1	2.1
5	☐	100.000	97.756	570596.27	0.4990	P	1.3	-2.2
6	☐	200.000	201.100	1146129.62	1.0263	P	1.0	0.5

y = 0.0051 * x + 2.4686E-004
R = 0.9999
DL = 0.005927 ppb
BEC = 0.04838 ppb

Weight: <None>
Min Conc: <None>

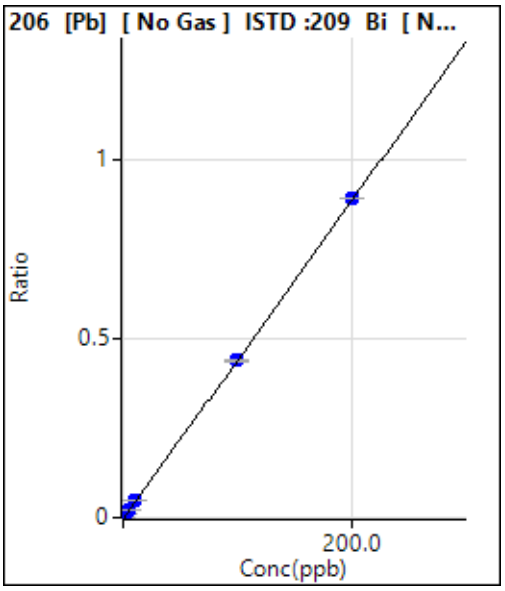


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520.02	0.0005	P	8.2	
2	☐	2.000	1.952	30434.08	0.0268	P	2.3	-2.4
3	☐	5.000	4.881	75672.99	0.0664	P	1.5	-2.4
4	☐	10.000	9.168	141210.38	0.1243	P	1.4	-8.3
5	☐	100.000	98.074	1514749.92	1.3248	A	1.5	-1.9
6	☐	200.000	201.008	3031376.21	2.7147	A	1.2	0.5

y = 0.0135 * x + 4.6396E-004
R = 0.9999
DL = 0.008482 ppb
BEC = 0.03436 ppb

Weight: <None>
Min Conc: <None>

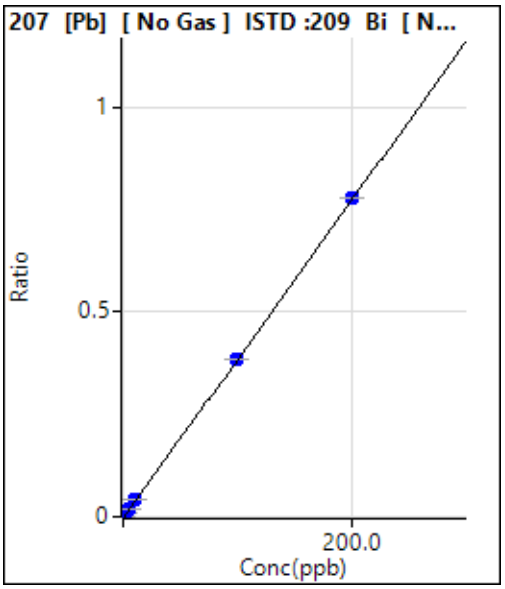
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0002	P	18.5	
2	☐	2.000	2.099	10834.90	0.0095	P	1.1	4.9
3	☐	5.000	5.270	26959.44	0.0236	P	1.2	5.4
4	☐	10.000	10.629	53953.52	0.0475	P	0.7	6.3
5	☐	100.000	98.654	501774.02	0.4388	P	1.0	-1.3
6	☐	200.000	200.634	996362.01	0.8923	P	0.6	0.3

y = 0.0044 * x + 2.1713E-004
R = 1.0000
DL = 0.02715 ppb
BEC = 0.04884 ppb

Weight: <None>
Min Conc: <None>

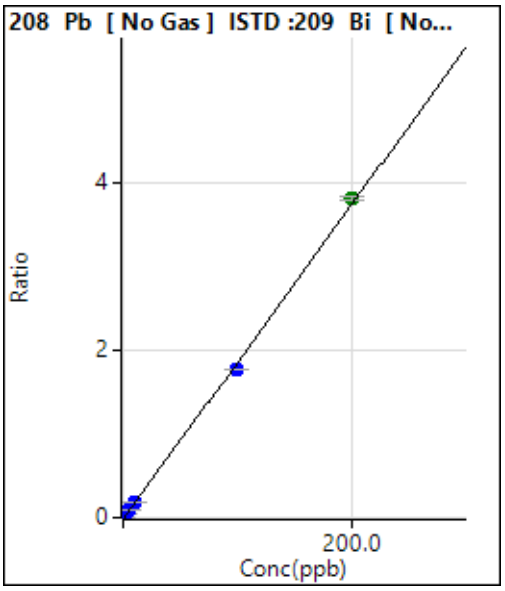


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	226.67	0.0002	P	22.9	
2	☐	2.000	2.136	9630.59	0.0085	P	1.8	6.8
3	☐	5.000	5.293	23636.07	0.0207	P	0.4	5.9
4	☐	10.000	10.729	47517.60	0.0418	P	0.5	7.3
5	☐	100.000	98.903	438820.02	0.3838	P	0.3	-1.1
6	☐	200.000	200.503	868604.83	0.7778	P	0.4	0.3

y = 0.0039 * x + 2.0232E-004
R = 1.0000
DL = 0.03577 ppb
BEC = 0.05217 ppb

Weight: <None>
Min Conc: <None>

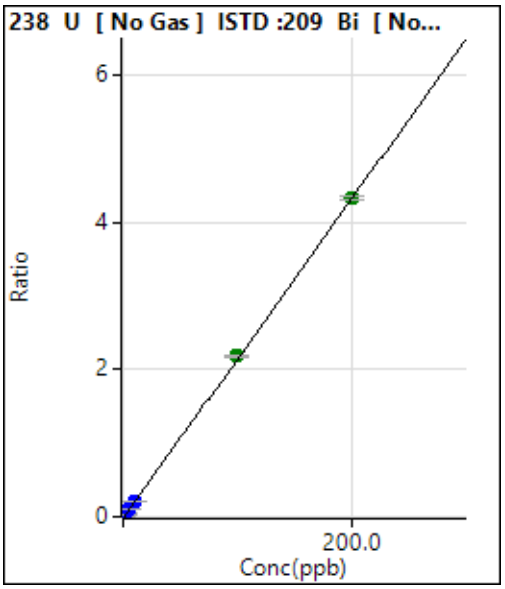
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	950.04	0.0008	P	14.5	
2	☐	2.000	1.970	42899.39	0.0378	P	2.4	-1.5
3	☐	5.000	5.017	108269.76	0.0950	P	0.8	0.3
4	☐	10.000	10.141	217155.65	0.1911	P	1.1	1.4
5	☐	100.000	93.960	2016310.66	1.7634	P	0.5	-6.0
6	☐	200.000	203.013	4253525.82	3.8091	A	1.1	1.5

y = 0.0188 * x + 8.4790E-004
R = 0.9994
DL = 0.01967 ppb
BEC = 0.0452 ppb

Weight: <None>
Min Conc: <None>

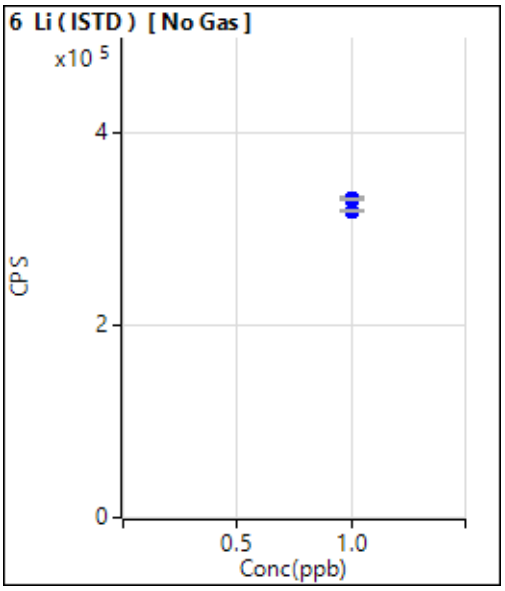


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	496.69	0.0004	P	20.5	
2	☐	2.000	1.787	44568.19	0.0393	P	1.2	-10.7
3	☐	5.000	4.598	114449.68	0.1004	P	0.4	-8.0
4	☐	10.000	9.291	229978.88	0.2024	P	0.9	-7.1
5	☐	100.000	100.848	2506607.10	2.1922	A	1.5	0.8
6	☐	200.000	199.624	4845037.22	4.3390	A	1.6	-0.2

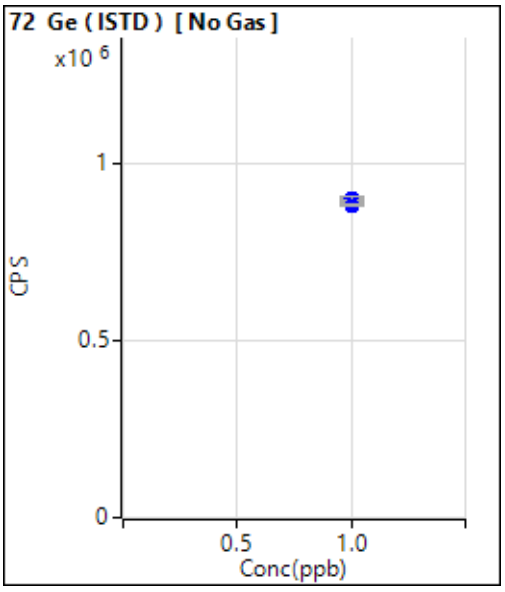
y = 0.0217 * x + 4.4333E-004
R = 1.0000
DL = 0.01255 ppb
BEC = 0.0204 ppb

Weight: <None>
Min Conc: <None>

Calibration for 027_ICV.d

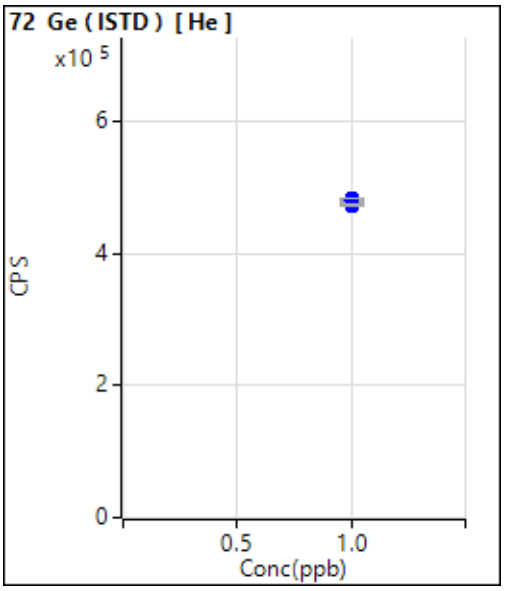


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		330976.45		P	0.6	
2	☐	1.000		329750.60		P	0.2	
3	☐	1.000		331288.14		P	1.3	
4	☐	1.000		330491.59		P	0.7	
5	☐	1.000		329494.52		P	0.5	
6	☐	1.000		318236.67		P	0.5	

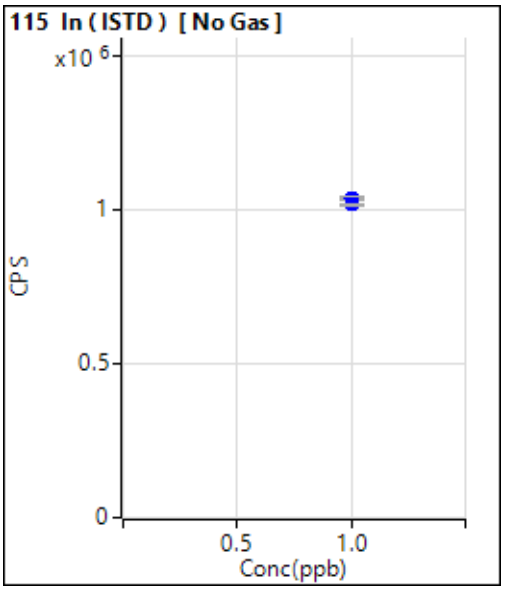


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		892757.67		P	0.2	
2	☐	1.000		901715.82		P	0.6	
3	☐	1.000		898065.43		P	0.4	
4	☐	1.000		892935.87		P	0.9	
5	☐	1.000		901725.82		P	0.7	
6	☐	1.000		882687.57		P	0.3	

Calibration for 027_ICV.d

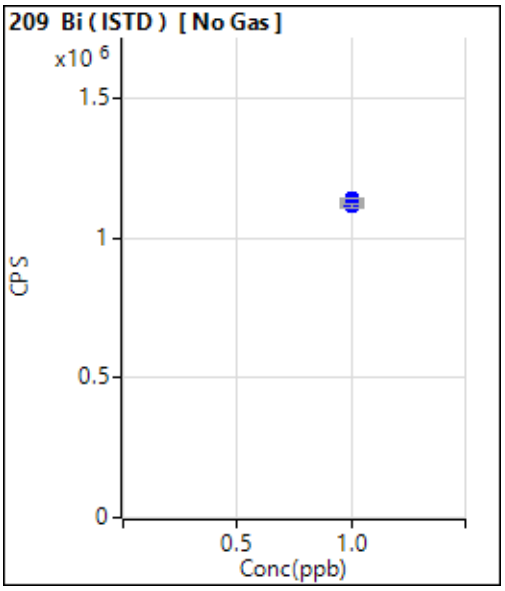


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		477077.62		P	0.7	
2	☐	1.000		474855.83		P	0.5	
3	☐	1.000		478568.95		P	0.2	
4	☐	1.000		478919.11		P	1.6	
5	☐	1.000		483102.23		P	0.6	
6	☐	1.000		472835.15		P	0.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1030947.84		P	0.3	
2	☐	1.000		1036567.49		P	0.6	
3	☐	1.000		1037106.73		P	0.6	
4	☐	1.000		1037093.86		P	0.9	
5	☐	1.000		1035801.66		P	1.1	
6	☐	1.000		1015862.66		P	0.7	

Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1120748.13		P	0.3	
2	☐	1.000		1134701.88		P	0.4	
3	☐	1.000		1140158.84		P	0.7	
4	☐	1.000		1136451.39		P	0.6	
5	☐	1.000		1143412.90		P	0.1	
6	☐	1.000		1116721.00		P	0.9	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	028LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:55:22-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	020CALB.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	5.391	5.391	2.81	46126	0.01	5	
Be	9	1	No Gas	5.673	5.673	2.42	6830	0.08	5	
V	51	2	He	4.970	4.970	3.25	34600	0.01	5	
Cr	52	2	He	5.849	5.849	1.91	25053	0.02	5	
Fe	56	2	He	603.609	603.609	1.69	2543645	0.02	500	
Se	78	2	He	4.836	4.836	22.79	2303	0.21	5	
As	75	2	He	5.582	5.582	3.61	5061	0.11	5	
Ca	44	2	He	582.891	582.891	4.00	36352	1.60	500	
Na	23	2	He	586.784	586.784	2.05	841943	0.07	500	
Mg	24	2	He	548.915	548.915	0.87	350329	0.16	500	
K	39	2	He	623.929	623.929	3.36	1050200	0.06	500	
Mn	55	2	He	5.786	5.786	4.41	23935	0.02	5	
Co	59	2	He	5.688	5.688	1.19	29934	0.02	5	
Ni	60	2	He	5.595	5.595	5.08	7115	0.08	5	
Cu	63	2	He	5.695	5.695	2.17	18803	0.03	5	
Zn	66	2	He	6.009	6.009	4.96	5278	0.11	5	
Al	27	2	He	6.406	6.406	13.80	8369	0.08	5	
B	11	1	No Gas	43.748	43.748	6.30	31474	0.14	25	NewName2 Main CR1 Failed
Al	27	1	No Gas	6.484	6.484	3.93	93359	0.01	5	
Si	28	1	No Gas	24.842	24.842	8.02	600990	0.00	25	
Ag	107	1	No Gas	5.904	5.904	2.19	41262	0.01	5	
Cd	111	1	No Gas	5.631	5.631	2.91	7522	0.07	5	
Sr	88	1	No Gas	5.246	5.246	3.59	69746	0.01	5	
Mo	95	1	No Gas	5.502	5.502	4.60	13480	0.04	5	
Sn	118	1	No Gas	5.623	5.623	4.15	24083	0.02	5	
Sb	121	1	No Gas	5.216	5.216	0.56	34697	0.02	5	
Ba	137	1	No Gas	5.504	5.504	1.61	11832	0.05	5	
Tl	205	1	No Gas	5.383	5.383	3.10	82974	0.01	5	
Tl	203	1	No Gas	5.995	5.995	1.47	34976	0.02	5	
Pb	208	1	No Gas	5.338	5.338	2.25	114529	0.00	5	
U	238	1	No Gas	4.920	4.920	1.54	121789	0.00	5	
Ca	43	2	He	574.267	574.267	13.27	1500	38.28	500	
Sb	121	2	He	5.569	5.569	1.19	24073	0.02	5	
Ti	47	2	He	5.643	5.643	15.04	1107	0.51	5	
Cu	63	1	No Gas	6.059	6.059	3.64	40123	0.02	5	
Se	82	1	No Gas	5.677	5.677	35.12	414	1.37	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	331060	0.76	330976	100.03	70	120	
Ge	72	2	He	477854	0.70	477078	100.16	70	120	
Ge	72	1	No Gas	904340	0.43	892758	101.30	70	120	
In	115	1	No Gas	1042535	0.63	1030948	101.12	70	120	
Bi	209	1	No Gas	1134165	0.69	1120748	101.20	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	029LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:57:41-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	020CALB.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	2.133	2.133	1.74	30015	0.01	2	
Be	9	1	No Gas	2.257	2.257	7.42	2727	0.08	2	
V	51	2	He	1.688	1.688	3.68	21541	0.01	2	
Cr	52	2	He	2.425	2.425	4.89	11538	0.02	2	
Fe	56	2	He	229.197	229.197	3.74	998892	0.02	200	
Se	78	2	He	2.348	2.348	31.72	2102	0.11	2	
As	75	2	He	2.259	2.259	5.13	2565	0.09	2	
Ca	44	2	He	233.196	233.196	1.17	21537	1.08	200	
Na	23	2	He	226.195	226.195	1.47	486819	0.05	200	
Mg	24	2	He	218.812	218.812	1.20	141129	0.16	200	
K	39	2	He	219.614	219.614	1.84	648286	0.03	200	
Mn	55	2	He	2.288	2.288	3.61	10274	0.02	2	
Co	59	2	He	2.303	2.303	2.14	12343	0.02	2	
Ni	60	2	He	2.421	2.421	4.13	3180	0.08	2	
Cu	63	2	He	2.433	2.433	2.24	8463	0.03	2	
Zn	66	2	He	2.503	2.503	9.66	2584	0.10	2	
Al	27	2	He	3.113	3.113	27.71	6732	0.05	2	NewName Main CR1 Failed
B	11	1	No Gas	18.549	18.549	5.41	17302	0.11	10	NewName Main CR1 Failed
Al	27	1	No Gas	3.631	3.631	4.92	75770	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	8.820	8.820	37.01	548937	0.00	10	
Ag	107	1	No Gas	2.283	2.283	3.01	15977	0.01	2	
Cd	111	1	No Gas	2.266	2.266	3.52	3034	0.07	2	
Sr	88	1	No Gas	2.078	2.078	2.45	27722	0.01	2	
Mo	95	1	No Gas	2.305	2.305	7.08	5668	0.04	2	
Sn	118	1	No Gas	2.193	2.193	4.35	10237	0.02	2	
Sb	121	1	No Gas	2.151	2.151	6.98	14408	0.01	2	
Ba	137	1	No Gas	2.223	2.223	4.68	4804	0.05	2	
Tl	205	1	No Gas	2.131	2.131	1.23	33055	0.01	2	
Tl	203	1	No Gas	2.323	2.323	3.01	13674	0.02	2	
Pb	208	1	No Gas	2.108	2.108	3.18	45674	0.00	2	
U	238	1	No Gas	1.940	1.940	0.99	48152	0.00	2	
Ca	43	2	He	214.209	214.209	11.54	603	35.50	200	
Sb	121	2	He	2.287	2.287	5.28	10047	0.02	2	
Ti	47	2	He	2.086	2.086	13.40	417	0.50	200	
Cu	63	1	No Gas	2.416	2.416	4.66	22042	0.01	2	
Se	82	1	No Gas	0.773	0.773	249.17	40	1.93	2	NewName 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	329062	1.18	330976	99.42	70	120	
Ge	72	2	He	479025	0.57	477078	100.41	70	120	
Ge	72	1	No Gas	896747	1.96	892758	100.45	70	120	
In	115	1	No Gas	1034929	1.52	1030948	100.39	70	120	
Bi	209	1	No Gas	1130248	1.70	1120748	100.85	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	030_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:00:01-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.128	36.8	20168	1.1	0.5	
Be	9	1	No Gas	0.054	35.0	105	21.8	0.5	
V	51	2	He	-0.494	-12.5	12732	2.3	2.5	
Cr	52	2	He	0.074	41.5	2204	5.1	2.5	
Fe	56	2	He	5.276	24.1	70821	7.1	100	
Se	78	2	He	-1.017	-31.2	1811	1.3	1	
As	75	2	He	0.119	20.7	943	1.5	2.5	
Ca	44	2	He	12.436	52.6	12062	2.4	100	
Na	23	2	He	5.211	24.4	266423	0.3	100	
Mg	24	2	He	5.081	33.0	5092	20.5	100	
K	39	2	He	-0.517	-428.4	425618	0.4	100	
Mn	55	2	He	0.047	46.8	1470	6.2	2.5	
Co	59	2	He	0.054	50.4	597	23.5	2.5	
Ni	60	2	He	0.044	49.3	220	12.0	2.5	
Cu	63	2	He	0.065	17.3	920	3.8	1	
Zn	66	2	He	0.353	24.1	917	7.0	2.5	
Al	27	2	He	-0.242	-103.2	5018	2.3	5	
B	11	1	No Gas	5.557	4.4	10050	0.5	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	0.876	25.2	59293	1.5	5	
Si	28	1	No Gas	1.217	190.8	524378	0.4	10	
Ag	107	1	No Gas	0.060	33.8	637	22.1	2.5	
Cd	111	1	No Gas	0.066	28.7	133	18.9	1	
Sr	88	1	No Gas	0.070	1.5	1393	0.4	2.5	
Mo	95	1	No Gas	0.081	44.4	293	30.6	2.5	
Sn	118	1	No Gas	0.219	12.0	2360	5.5	5	
Sb	121	1	No Gas	0.086	15.0	907	9.2	2.5	
Ba	137	1	No Gas	0.128	35.2	367	25.8	2.5	
Tl	205	1	No Gas	0.080	6.0	1740	4.9	1	
Tl	203	1	No Gas	0.071	11.1	687	7.3	1	
Pb	208	1	No Gas	0.075	23.2	2540	15.2	2.5	
U	238	1	No Gas	0.055	30.9	1834	23.2	2.5	
Ca	43	2	He	9.399	185.5	90	48.4	100	
Sb	121	2	He	0.054	10.5	467	5.4	2.5	
Ti	47	2	He	0.224	35.4	53	28.6	2.5	
Se	82	1	No Gas	-1.486	-91.8	-127	-79.5	1	

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	327530	1.15	330976	98.96	70	120	
Ge	72	2	He	476262	0.44	477078	99.83	70	120	
Ge	72	1	No Gas	892688	0.98	892758	99.99	70	120	
In	115	1	No Gas	1033873	1.10	1030948	100.28	70	120	
Bi	209	1	No Gas	1122576	0.94	1120748	100.16	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	031LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:02:21-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	020CALB.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	4.933	4.933	1.53	43487	0.01	5	
Be	9	1	No Gas	5.201	5.201	3.13	6206	0.08	5	
V	51	2	He	4.933	4.933	0.94	34627	0.01	5	
Cr	52	2	He	5.297	5.297	1.85	22983	0.02	5	
Fe	56	2	He	559.679	559.679	0.12	2373878	0.02	500	
Se	78	2	He	5.468	5.468	26.27	2367	0.23	5	
As	75	2	He	5.328	5.328	2.35	4894	0.11	5	
Ca	44	2	He	531.671	531.671	1.09	34343	1.55	500	
Na	23	2	He	520.787	520.787	4.77	780636	0.07	500	
Mg	24	2	He	516.102	516.102	0.93	331139	0.16	500	
K	39	2	He	558.084	558.084	3.83	989281	0.06	500	
Mn	55	2	He	5.224	5.224	1.44	21851	0.02	5	
Co	59	2	He	5.432	5.432	0.57	28747	0.02	5	
Ni	60	2	He	5.328	5.328	7.25	6815	0.08	5	
Cu	63	2	He	5.398	5.398	0.67	17949	0.03	5	
Zn	66	2	He	5.689	5.689	1.68	5058	0.11	5	
Al	27	2	He	6.281	6.281	3.50	8346	0.08	5	
B	11	1	No Gas	29.103	29.103	0.42	23089	0.13	25	
Al	27	1	No Gas	6.068	6.068	2.54	89827	0.01	5	
Si	28	1	No Gas	22.495	22.495	13.18	587092	0.00	25	
Ag	107	1	No Gas	5.624	5.624	2.00	39342	0.01	5	
Cd	111	1	No Gas	5.362	5.362	4.24	7172	0.07	5	
Sr	88	1	No Gas	4.913	4.913	0.69	65406	0.01	5	
Mo	95	1	No Gas	5.265	5.265	1.90	12916	0.04	5	
Sn	118	1	No Gas	5.219	5.219	0.49	22483	0.02	5	
Sb	121	1	No Gas	4.989	4.989	1.24	32811	0.02	5	
Ba	137	1	No Gas	5.398	5.398	1.91	11615	0.05	5	
Tl	205	1	No Gas	4.891	4.891	1.30	75525	0.01	5	
Tl	203	1	No Gas	5.500	5.500	0.75	32145	0.02	5	
Pb	208	1	No Gas	5.064	5.064	1.25	108830	0.00	5	
U	238	1	No Gas	4.658	4.658	0.63	115472	0.00	5	
Ca	43	2	He	565.643	565.643	8.10	1487	38.04	500	
Sb	121	2	He	5.299	5.299	3.23	23031	0.02	5	
Ti	47	2	He	5.304	5.304	14.70	1047	0.51	5	
Cu	63	1	No Gas	5.496	5.496	2.07	36924	0.01	5	
Se	82	1	No Gas	3.681	3.681	53.10	260	1.42	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	328014	0.37	330976	99.11	70	120	
Ge	72	2	He	480272	0.74	477078	100.67	70	120	
Ge	72	1	No Gas	893767	0.98	892758	100.11	70	120	

Sample Report

In	115	1	No Gas	1043389	0.73	1030948	101.21	70	120	
Bi	209	1	No Gas	1135590	1.16	1120748	101.32	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	032ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:04:40-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.879	10.5	26119	3.4	0	ICSA Main CR1 Failed
Be	9	1	No Gas	-0.004	-525.5	40	69.6	0	ICSA Main CR1 Failed
V	51	2	He	0.174	24.5	15666	0.8	0	ICSA Main CR1 Failed
Cr	52	2	He	1.498	0.9	7956	0.4	0	ICSA Main CR1 Failed
Fe	56	2	He	106622.986	0.8	446951980	0.6	0	
Se	78	2	He	-0.366	-206.3	1898	2.9	0	ICSA Main CR1 Failed
As	75	2	He	0.502	21.7	1252	6.2	0	ICSA Main CR1 Failed
Ca	44	2	He	109163.074	0.8	4717849	0.4	0	
Na	23	2	He	107195.825	0.2	107692692	0.3	0	
Mg	24	2	He	107225.447	0.4	69041756	0.2	0	
K	39	2	He	106431.979	0.8	108153162	0.5	0	
Mn	55	2	He	0.455	10.5	3117	6.4	0	ICSA Main CR1 Failed
Co	59	2	He	0.273	4.4	1763	4.0	0	ICSA Main CR1 Failed
Ni	60	2	He	0.839	16.0	1227	14.2	0	ICSA Main CR1 Failed
Cu	63	2	He	0.379	7.9	1950	4.9	0	ICSA Main CR1 Failed
Zn	66	2	He	3.215	2.4	3170	2.0	0	ICSA Main CR1 Failed
Al	27	2	He	103538.429	0.6	52648666	0.6	0	
B	11	1	No Gas	5.365	12.9	10906	2.4	0	
Al	27	1	No Gas	99556.868	1.9	582193098	0.6	0	
Si	28	1	No Gas	20.700	15.6	579963	0.1	0	
Ag	107	1	No Gas	0.202	9.4	1583	7.3	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	1.273	5.2	1693	5.9	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	4.647	0.3	60286	1.3	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2348.926	1.4	5569687	0.5	0	
Sn	118	1	No Gas	0.538	1.0	3571	0.7	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.320	8.0	2424	6.8	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.957	8.8	2084	8.6	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.033	42.4	1010	21.5	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.027	37.5	430	14.1	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.240	3.9	5967	3.8	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.020	69.6	990	35.9	0	ICSA Main CR1 Failed
Ca	43	2	He	107311.582	1.8	271894	1.5	0	
Sb	121	2	He	0.322	0.4	1640	0.6	0	ICSA Main CR1 Failed
Ti	47	2	He	2229.118	0.4	439414	0.1	0	
Se	82	1	No Gas	-1.178	-119.5	-104	-101.4	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	359306	1.54	330976	108.56	70	120	
Ge	72	2	He	484721	0.43	477078	101.60	70	120	
Ge	72	1	No Gas	890955	1.66	892758	99.80	70	120	
In	115	1	No Gas	1016197	1.00	1030948	98.57	70	120	
Bi	209	1	No Gas	1114724	1.63	1120748	99.46	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	033ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:07:01-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	85.693	0.857	476847	0.17	100	85.7	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	91.172	1.581	118565	0.67	100	91.2	80	120	
V	51	2	He	104.318	0.464	431188	0.61	100	104.3	80	120	
Cr	52	2	He	104.277	1.256	414079	1.32	100	104.3	80	120	
Fe	56	2	He	116610.349	0.127	481623193	0.27	100	116610.3	80	120	
Se	78	2	He	100.078	1.637	10189	1.51	100	100.1	80	120	
As	75	2	He	103.138	0.992	78488	0.66	100	103.1	80	120	
Ca	44	2	He	117751.009	0.566	5013274	0.73	100	117751.0	80	120	
Na	23	2	He	116822.888	0.854	115615408	1.18	100	116822.9	80	120	
Mg	24	2	He	116317.505	0.522	73792926	0.26	100	116317.5	80	120	
K	39	2	He	115268.699	0.429	115374038	0.24	100	115268.7	80	120	
Mn	55	2	He	104.306	0.709	409317	0.95	100	104.3	80	120	
Co	59	2	He	103.769	0.309	540336	0.16	100	103.8	80	120	
Ni	60	2	He	102.820	1.290	127772	0.98	100	102.8	80	120	
Cu	63	2	He	101.558	0.328	323003	0.31	100	101.6	80	120	
Zn	66	2	He	102.634	1.756	79710	1.96	100	102.6	80	120	
Al	27	2	He	101911.223	0.704	51057886	0.49	100	101911.2	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	474.683	1.052	295559	1.18	100	474.7	80	120	
Al	27	1	No Gas	98206.415	0.789	566431165	0.35	100	98206.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	537.524	2.923	2054087	1.73	100	537.5	80	120	
Ag	107	1	No Gas	104.054	1.040	693956	0.88	100	104.1	80	120	
Cd	111	1	No Gas	105.927	1.107	134935	1.50	100	105.9	80	120	
Sr	88	1	No Gas	112.593	2.968	1426397	1.60	100	112.6	80	120	
Mo	95	1	No Gas	2435.735	2.198	5683595	1.26	100	2435.7	80	120	
Sn	118	1	No Gas	108.326	0.471	418840	0.88	100	108.3	80	120	
Sb	121	1	No Gas	98.114	0.424	627945	0.86	100	98.1	80	120	
Ba	137	1	No Gas	107.226	0.761	219392	1.06	100	107.2	80	120	
Tl	205	1	No Gas	105.592	3.287	1571032	1.90	100	105.6	80	120	
Tl	203	1	No Gas	105.393	1.337	592700	0.12	100	105.4	80	120	
Pb	208	1	No Gas	100.045	1.137	2068484	0.25	100	100.0	80	120	
U	238	1	No Gas	110.719	2.104	2651269	0.72	100	110.7	80	120	
Ca	43	2	He	115360.127	0.879	287985	0.76	100	115360.1	80	120	
Sb	121	2	He	103.172	0.720	441600	0.98	100	103.2	80	120	
Ti	47	2	He	2313.904	1.193	449408	1.03	100	2313.9	80	120	
Cu	63	1	No Gas	103.407	0.398	503558	0.26	100	103.4	80	120	
Se	82	1	No Gas	101.141	2.764	7436	2.51	100	101.1	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	359704	0.99	330976	108.68	70	120	
Ge	72	2	He	477583	0.34	477078	100.11	70	120	
Ge	72	1	No Gas	878593	0.46	892758	98.41	70	120	
In	115	1	No Gas	1000100	1.35	1030948	97.01	70	120	
Bi	209	1	No Gas	1101800	1.37	1120748	98.31	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	035_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:12:18-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	95.361	0.995	454814	0.47	100	95.4	90	110	
Be	9	1	No Gas	94.565	1.591	114655	1.13	100	94.6	90	110	
V	51	2	He	98.311	0.537	411461	0.13	100	98.3	90	110	
Cr	52	2	He	100.480	0.300	403251	0.81	100	100.5	90	110	
Fe	56	2	He	10084.830	1.179	42132162	0.75	10000	100.8	90	110	
Se	78	2	He	100.472	1.503	10329	1.35	100	100.5	90	110	
As	75	2	He	100.392	0.441	77221	0.40	100	100.4	90	110	
Ca	44	2	He	10035.469	0.712	442414	0.30	10000	100.4	90	110	
Na	23	2	He	10220.690	0.702	10462186	0.63	10000	102.2	90	110	
Mg	24	2	He	10029.686	1.039	6431532	1.53	10000	100.3	90	110	
K	39	2	He	10072.544	0.094	10581418	0.60	10000	100.7	90	110	
Mn	55	2	He	98.926	1.469	392312	0.97	100	98.9	90	110	
Co	59	2	He	99.703	0.706	524604	0.32	100	99.7	90	110	
Ni	60	2	He	100.745	1.760	126504	1.30	100	100.7	90	110	
Cu	63	2	He	100.373	0.585	322580	0.18	100	100.4	90	110	
Zn	66	2	He	102.145	2.167	80156	1.65	100	102.1	90	110	
Al	27	2	He	221.726	8.416	117474	8.51	100	221.7	90	110	CCV Main CR1-2 Failed
B	11	1	No Gas	467.746	0.726	271635	1.11	500	93.5	90	110	
Al	27	1	No Gas	234.425	9.640	1428875	8.54	100	234.4	90	110	CCV Main CR1-2 Failed
Si	28	1	No Gas	562.549	1.955	2162461	1.10	5000	11.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.061	0.096	690398	0.31	100	100.1	90	110	
Cd	111	1	No Gas	99.526	0.757	131161	0.92	100	99.5	90	110	
Sr	88	1	No Gas	98.903	0.725	1296596	0.98	100	98.9	90	110	
Mo	95	1	No Gas	100.936	0.503	243785	0.84	100	100.9	90	110	
Sn	118	1	No Gas	99.154	0.453	396744	0.70	100	99.2	90	110	
Sb	121	1	No Gas	93.350	1.176	607715	0.75	100	93.3	90	110	
Ba	137	1	No Gas	99.710	0.094	211063	0.30	100	99.7	90	110	
Tl	205	1	No Gas	96.774	0.533	1488916	0.28	100	96.8	90	110	
Tl	203	1	No Gas	97.552	0.543	567211	0.40	100	97.6	90	110	
Pb	208	1	No Gas	94.423	0.364	2018416	0.34	100	94.4	90	110	
U	238	1	No Gas	101.141	0.654	2504212	0.66	100	101.1	90	110	
Ca	43	2	He	10384.475	2.558	26259	3.01	10000	103.8	90	110	
Sb	121	2	He	99.221	0.915	429129	0.66	100	99.2	90	110	
Ti	47	2	He	103.564	5.051	20332	4.67	100	103.6	90	110	
Cu	63	1	No Gas	99.889	1.062	495128	0.41	100	99.9	90	110	
Se	82	1	No Gas	98.635	5.267	7375	4.65	100	98.6	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	335348	0.48	330976	101.32	70	120	
Ge	72	2	He	482581	0.51	477078	101.15	70	120	
Ge	72	1	No Gas	893713	0.80	892758	100.11	70	120	
In	115	1	No Gas	1034589	0.36	1030948	100.35	70	120	
Bi	209	1	No Gas	1138999	0.27	1120748	101.63	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	036_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:14:37-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.458	31.3	21927	3.1	0.5	
Be	9	1	No Gas	0.099	105.0	160	77.8	0.5	
V	51	2	He	-0.547	-6.9	12682	1.5	2.5	
Cr	52	2	He	0.300	5.2	3137	2.9	2.5	
Fe	56	2	He	75.873	20.5	366363	18.0	100	
Se	78	2	He	-0.075	-858.5	1914	3.8	2	
As	75	2	He	0.048	320.3	902	13.6	2.5	
Ca	44	2	He	87.816	22.1	15453	5.5	100	
Na	23	2	He	110.946	17.7	375355	5.3	100	CCB Main CR1 Failed
Mg	24	2	He	82.641	21.7	54866	21.1	100	
K	39	2	He	90.683	25.1	522981	4.2	100	
Mn	55	2	He	0.260	42.8	2334	19.3	2.5	
Co	59	2	He	0.223	27.9	1494	22.7	2.5	
Ni	60	2	He	0.235	33.7	463	21.7	2.5	
Cu	63	2	He	0.288	28.2	1650	16.3	2	
Zn	66	2	He	0.505	21.5	1047	8.6	2.5	
Al	27	2	He	53.102	22.9	32092	19.6	5	CCB Main CR1 Failed
B	11	1	No Gas	13.455	16.2	14519	8.3	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	20.872	112.6	174971	78.1	5	CCB Main CR1 Failed
Si	28	1	No Gas	8.879	11.1	541535	0.7	10	
Ag	107	1	No Gas	0.145	141.1	1210	115.8	2.5	
Cd	111	1	No Gas	0.153	118.8	247	96.7	1	
Sr	88	1	No Gas	0.107	143.0	1857	107.0	2.5	
Mo	95	1	No Gas	0.655	105.7	1664	99.8	2.5	
Sn	118	1	No Gas	0.277	56.7	2564	24.6	5	
Sb	121	1	No Gas	0.187	103.8	1554	80.7	2.5	
Ba	137	1	No Gas	0.151	139.8	413	107.5	2.5	
Tl	205	1	No Gas	0.296	70.3	4979	63.6	1	
Tl	203	1	No Gas	0.328	81.2	2144	71.4	1	
Pb	208	1	No Gas	0.143	111.3	3948	85.1	2.5	
U	238	1	No Gas	0.106	125.2	3082	105.4	2.5	
Ca	43	2	He	69.817	23.1	243	16.6	100	
Sb	121	2	He	0.330	27.5	1667	23.6	2.5	
Ti	47	2	He	1.339	29.8	273	29.6	2.5	
Cu	63	1	No Gas	0.107	130.9	10648	6.5	2.5	
Se	82	1	No Gas	-1.089	-115.3	-97	-96.1	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	329946	0.20	330976	99.69	70	120	
Ge	72	2	He	482466	1.20	477078	101.13	70	120	
Ge	72	1	No Gas	884179	0.58	892758	99.04	70	120	
In	115	1	No Gas	1022455	0.74	1030948	99.18	70	120	
Bi	209	1	No Gas	1113776	0.83	1120748	99.38	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	038_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:24:39-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.283	14.5	20592	1.0	0.5	
Be	9	1	No Gas	-0.016	-59.8	22	53.3	0.5	
V	51	2	He	-0.427	-12.4	12828	1.2	2.5	
Cr	52	2	He	0.032	223.0	2014	13.6	2.5	
Fe	56	2	He	0.638	48.7	51069	2.8	100	
Se	78	2	He	0.617	55.2	1921	2.1	2	
As	75	2	He	-0.254	-32.5	656	9.9	2.5	
Ca	44	2	He	32.717	43.2	12753	4.2	100	
Na	23	2	He	9.577	11.4	267239	0.7	100	
Mg	24	2	He	0.339	74.1	2067	7.2	100	
K	39	2	He	11.249	35.4	431684	0.9	100	
Mn	55	2	He	-0.024	-44.4	1180	3.1	2.5	
Co	59	2	He	-0.009	-198.5	263	35.9	2.5	
Ni	60	2	He	-0.033	-36.7	123	12.4	2.5	
Cu	63	2	He	0.052	49.6	870	9.2	2	
Zn	66	2	He	0.229	91.5	810	19.0	2.5	
Al	27	2	He	1.580	57.3	5851	7.4	5	
B	11	1	No Gas	1.146	30.6	7535	2.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	2.087	16.7	64994	2.9	5	
Si	28	1	No Gas	9.841	44.7	537904	1.4	10	
Ag	107	1	No Gas	-0.001	-307.8	207	15.6	2.5	
Cd	111	1	No Gas	-0.012	-164.9	30	88.2	1	
Sr	88	1	No Gas	-0.002	-172.3	440	10.4	2.5	
Mo	95	1	No Gas	0.049	37.7	210	21.8	2.5	
Sn	118	1	No Gas	0.046	50.2	1633	4.1	5	
Sb	121	1	No Gas	0.005	198.5	377	18.1	2.5	
Ba	137	1	No Gas	0.039	40.3	177	19.9	2.5	
Tl	205	1	No Gas	-0.003	-212.4	467	21.7	1	
Tl	203	1	No Gas	-0.011	-68.9	213	19.5	1	
Pb	208	1	No Gas	-0.004	-66.4	863	5.4	2.5	
U	238	1	No Gas	-0.008	-31.4	297	19.8	2.5	
Ca	43	2	He	7.167	128.8	83	27.7	100	
Sb	121	2	He	0.001	1923.1	237	29.7	2.5	
Ti	47	2	He	0.140	56.4	37	41.7	2.5	
Cu	63	1	No Gas	-0.115	-128.2	9467	6.6	2.5	
Se	82	1	No Gas	-2.079	-101.8	-167	-92.2	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	324085	0.31	330976	97.92	70	120	
Ge	72	2	He	470128	0.62	477078	98.54	70	120	
Ge	72	1	No Gas	873898	0.95	892758	97.89	70	120	
In	115	1	No Gas	1012313	1.36	1030948	98.19	70	120	
Bi	209	1	No Gas	1104209	0.80	1120748	98.52	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	039_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:26:58-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.193	30.3	20293	0.6	0.5	
Be	9	1	No Gas	-0.016	-14.6	22	13.3	0.5	
V	51	2	He	-0.325	-8.8	13261	1.9	2.5	
Cr	52	2	He	0.029	130.2	2007	6.5	2.5	
Fe	56	2	He	-0.211	-25.7	47724	1.9	100	
Se	78	2	He	1.277	52.6	1979	2.6	2	
As	75	2	He	-0.191	-41.2	703	9.3	2.5	
Ca	44	2	He	20.357	41.8	12262	1.4	100	
Na	23	2	He	6.355	76.8	264665	0.5	100	
Mg	24	2	He	-0.623	-16.6	1470	5.4	100	
K	39	2	He	3.442	143.2	424948	0.4	100	
Mn	55	2	He	-0.026	-118.6	1173	8.7	2.5	
Co	59	2	He	-0.014	-78.3	243	24.1	2.5	
Ni	60	2	He	-0.031	-45.6	127	12.1	2.5	
Cu	63	2	He	0.019	324.8	770	27.0	2	
Zn	66	2	He	0.305	41.7	870	11.3	2.5	
Al	27	2	He	1.393	22.9	5771	1.6	5	
B	11	1	No Gas	-0.227	-159.5	6817	2.2	0.5	
Al	27	1	No Gas	1.435	15.8	61841	2.1	5	
Si	28	1	No Gas	8.741	16.1	539941	0.7	10	
Ag	107	1	No Gas	-0.010	-88.8	150	40.0	2.5	
Cd	111	1	No Gas	-0.002	-616.9	43	35.3	1	
Sr	88	1	No Gas	0.000	1022.5	470	9.8	2.5	
Mo	95	1	No Gas	0.025	34.7	153	13.6	2.5	
Sn	118	1	No Gas	0.025	86.7	1557	4.9	5	
Sb	121	1	No Gas	0.000	-2019.7	343	14.7	2.5	
Ba	137	1	No Gas	0.062	37.6	223	22.1	2.5	
Tl	205	1	No Gas	-0.014	-11.4	313	8.0	1	
Tl	203	1	No Gas	-0.026	-24.1	130	26.6	1	
Pb	208	1	No Gas	-0.004	-85.2	870	8.0	2.5	
U	238	1	No Gas	-0.013	-9.6	170	17.6	2.5	
Ca	43	2	He	15.212	80.1	103	29.6	100	
Sb	121	2	He	-0.007	-47.4	203	7.5	2.5	
Ti	47	2	He	0.122	49.4	33	34.6	2.5	
Cu	63	1	No Gas	-0.330	-21.9	8530	4.0	2.5	
Se	82	1	No Gas	-0.364	-197.9	-43	-123.9	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	325654	0.75	330976	98.39	70	120	
Ge	72	2	He	471204	1.52	477078	98.77	70	120	
Ge	72	1	No Gas	882224	0.04	892758	98.82	70	120	
In	115	1	No Gas	1013408	0.60	1030948	98.30	70	120	
Bi	209	1	No Gas	1119003	0.82	1120748	99.84	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	040_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:29:18-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	97.197	0.974	446715	0.54	100	97.2	90	110	
Be	9	1	No Gas	97.449	1.487	113948	1.02	100	97.4	90	110	
V	51	2	He	96.574	0.460	408952	0.42	100	96.6	90	110	
Cr	52	2	He	97.785	0.473	396842	0.56	100	97.8	90	110	
Fe	56	2	He	9906.137	0.858	41846750	0.44	10000	99.1	90	110	
Se	78	2	He	98.522	1.703	10278	0.94	100	98.5	90	110	
As	75	2	He	98.720	0.301	76795	0.65	100	98.7	90	110	
Ca	44	2	He	9781.706	0.976	436314	0.52	10000	97.8	90	110	
Na	23	2	He	9785.511	0.458	10139640	0.88	10000	97.9	90	110	
Mg	24	2	He	9870.878	0.863	6399683	0.48	10000	98.7	90	110	
K	39	2	He	9879.147	1.052	10501590	0.58	10000	98.8	90	110	
Mn	55	2	He	98.373	1.185	394468	0.81	100	98.4	90	110	
Co	59	2	He	98.575	1.306	524425	0.87	100	98.6	90	110	
Ni	60	2	He	99.099	0.475	125827	0.34	100	99.1	90	110	
Cu	63	2	He	98.487	1.158	320046	0.91	100	98.5	90	110	
Zn	66	2	He	99.223	0.456	78751	0.34	100	99.2	90	110	
Al	27	2	He	105.636	0.942	59333	1.18	100	105.6	90	110	
B	11	1	No Gas	476.159	0.949	266562	1.25	500	95.2	90	110	
Al	27	1	No Gas	100.259	2.054	643017	1.28	100	100.3	90	110	
Si	28	1	No Gas	559.198	1.132	2154930	0.11	5000	11.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.381	1.041	680552	0.14	100	99.4	90	110	
Cd	111	1	No Gas	99.447	1.311	130087	2.21	100	99.4	90	110	
Sr	88	1	No Gas	99.994	0.916	1301204	2.01	100	100.0	90	110	
Mo	95	1	No Gas	98.737	2.242	236664	1.35	100	98.7	90	110	
Sn	118	1	No Gas	98.513	1.128	391224	0.71	100	98.5	90	110	
Sb	121	1	No Gas	91.914	0.770	598995	0.03	100	91.9	90	110	
Ba	137	1	No Gas	98.049	1.106	205993	0.81	100	98.0	90	110	
Tl	205	1	No Gas	95.060	1.773	1458716	1.32	100	95.1	90	110	
Tl	203	1	No Gas	95.722	1.228	555124	0.82	100	95.7	90	110	
Pb	208	1	No Gas	92.388	0.519	1969809	0.14	100	92.4	90	110	
U	238	1	No Gas	99.427	0.366	2455384	0.17	100	99.4	90	110	
Ca	43	2	He	9977.455	1.911	25511	1.97	10000	99.8	90	110	
Sb	121	2	He	97.424	0.777	426049	0.83	100	97.4	90	110	
Ti	47	2	He	97.440	2.946	19347	3.39	100	97.4	90	110	
Cu	63	1	No Gas	98.478	0.472	488792	0.35	100	98.5	90	110	
Se	82	1	No Gas	98.174	2.013	7349	1.88	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	323421	0.47	330976	97.72	70	120	
Ge	72	2	He	487942	0.45	477078	102.28	70	120	
Ge	72	1	No Gas	894634	0.75	892758	100.21	70	120	
In	115	1	No Gas	1026889	1.15	1030948	99.61	70	120	
Bi	209	1	No Gas	1136055	0.45	1120748	101.37	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	041_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:31:37-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	98.467	1.208	452603	0.39	100	98.5	90	110	
Be	9	1	No Gas	97.488	0.272	114079	0.72	100	97.5	90	110	
V	51	2	He	98.169	0.898	412991	0.61	100	98.2	90	110	
Cr	52	2	He	100.158	0.630	404010	0.40	100	100.2	90	110	
Fe	56	2	He	9991.284	0.541	41956534	0.56	10000	99.9	90	110	
Se	78	2	He	97.886	0.626	10164	0.48	100	97.9	90	110	
As	75	2	He	100.055	0.452	77359	0.50	100	100.1	90	110	
Ca	44	2	He	9997.710	0.344	443058	0.59	10000	100.0	90	110	
Na	23	2	He	9987.169	0.012	10281576	0.27	10000	99.9	90	110	
Mg	24	2	He	9983.442	0.267	6434354	0.01	10000	99.8	90	110	
K	39	2	He	9923.726	0.855	10484871	1.07	10000	99.2	90	110	
Mn	55	2	He	99.638	0.232	397163	0.36	100	99.6	90	110	
Co	59	2	He	99.419	0.714	525795	0.81	100	99.4	90	110	
Ni	60	2	He	99.324	0.761	125367	1.02	100	99.3	90	110	
Cu	63	2	He	99.904	0.395	322724	0.58	100	99.9	90	110	
Zn	66	2	He	101.339	1.070	79942	1.32	100	101.3	90	110	
Al	27	2	He	108.805	1.533	60592	1.39	100	108.8	90	110	
B	11	1	No Gas	488.352	1.466	273408	1.96	500	97.7	90	110	
Al	27	1	No Gas	100.030	0.606	650088	0.70	100	100.0	90	110	
Si	28	1	No Gas	549.813	1.044	2155333	0.77	5000	11.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.186	0.885	689492	0.86	100	99.2	90	110	
Cd	111	1	No Gas	98.513	0.744	130801	1.15	100	98.5	90	110	
Sr	88	1	No Gas	99.113	1.580	1309067	1.54	100	99.1	90	110	
Mo	95	1	No Gas	98.480	1.005	239631	0.61	100	98.5	90	110	
Sn	118	1	No Gas	98.507	0.721	397117	0.80	100	98.5	90	110	
Sb	121	1	No Gas	92.201	0.403	608716	0.40	100	92.2	90	110	
Ba	137	1	No Gas	97.997	1.612	208989	1.37	100	98.0	90	110	
Tl	205	1	No Gas	97.359	1.716	1504988	2.02	100	97.4	90	110	
Tl	203	1	No Gas	97.581	1.249	570013	0.64	100	97.6	90	110	
Pb	208	1	No Gas	93.130	0.255	2000170	0.94	100	93.1	90	110	
U	238	1	No Gas	99.733	2.112	2480659	1.20	100	99.7	90	110	
Ca	43	2	He	10030.802	1.596	25494	1.43	10000	100.3	90	110	
Sb	121	2	He	98.709	0.342	429106	0.38	100	98.7	90	110	
Ti	47	2	He	101.554	1.614	20042	1.38	100	101.6	90	110	
Cu	63	1	No Gas	98.907	1.139	497271	0.62	100	98.9	90	110	
Se	82	1	No Gas	97.530	2.569	7396	1.89	100	97.5	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	323648	0.83	330976	97.79	70	120	
Ge	72	2	He	485046	0.26	477078	101.67	70	120	
Ge	72	1	No Gas	906304	0.69	892758	101.52	70	120	
In	115	1	No Gas	1042347	0.42	1030948	101.11	70	120	
Bi	209	1	No Gas	1144381	1.19	1120748	102.11	70	120	

Sample Report

Sample Table

Sample Name	LCS-199483
Data File Name	044SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:38:38-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD 199483
ISTD Ref FileName	020CALB.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	0.301	0.301	34.27	22289	0.00	2000	
Be	9	1	No Gas	49.216	49.216	2.26	62204	0.08	2000	
V	51	2	He	48.316	48.316	0.69	226006	0.02	2000	
Cr	52	2	He	49.643	49.643	0.74	215681	0.02	2000	
Fe	56	2	He	5045.849	5045.849	1.23	22736495	0.02	200000	
Se	78	2	He	51.091	51.091	1.37	6675	0.77	2000	
As	75	2	He	50.312	50.312	2.05	42156	0.12	2000	
Ca	44	2	He	4935.275	4935.275	0.40	240791	2.05	200000	
Na	23	2	He	4996.641	4996.641	1.10	5655609	0.09	200000	
Mg	24	2	He	5067.153	5067.153	1.21	3501287	0.14	200000	
K	39	2	He	4998.095	4998.095	0.59	5890683	0.08	200000	
Mn	55	2	He	50.081	50.081	1.74	214665	0.02	2000	
Co	59	2	He	50.282	50.282	0.77	285195	0.02	2000	
Ni	60	2	He	50.271	50.271	0.66	68097	0.07	2000	
Cu	63	2	He	50.031	50.031	0.98	173612	0.03	2000	
Zn	66	2	He	51.798	51.798	2.20	44142	0.12	2000	
Al	27	2	He	102.603	102.603	1.05	61559	0.17	2000	
B	11	1	No Gas	1.143	1.143	44.72	8124	0.01	2000	
Al	27	1	No Gas	97.387	97.387	1.12	682170	0.01	2000	
Si	28	1	No Gas	174.726	174.726	4.39	1124618	0.02	2000	
Ag	107	1	No Gas	47.685	47.685	0.75	355684	0.01	2000	
Cd	111	1	No Gas	50.667	50.667	1.39	72188	0.07	2000	
Sr	88	1	No Gas	0.116	0.116	21.49	2150	0.01	2000	
Mo	95	1	No Gas	49.739	49.739	0.71	129876	0.04	2000	
Sn	118	1	No Gas	0.207	0.207	18.73	2500	0.01	2000	
Sb	121	1	No Gas	47.044	47.044	1.41	334185	0.01	2000	
Ba	137	1	No Gas	50.194	50.194	0.99	114879	0.04	2000	
Tl	205	1	No Gas	36.657	36.657	7.77	652368	0.01	2000	
Tl	203	1	No Gas	40.737	40.737	6.83	274158	0.01	2000	
Pb	208	1	No Gas	44.058	44.058	8.02	1089222	0.00	2000	
U	238	1	No Gas	0.058	0.058	29.86	2247	0.00	2000	
Ca	43	2	He	5110.867	5110.867	2.79	13957	36.62	200000	
Sb	121	2	He	49.585	49.585	0.72	231159	0.02	2000	
Ti	47	2	He	51.877	51.877	3.41	10978	0.47	2000	
Cu	63	1	No Gas	50.065	50.065	0.38	276207	0.02	2000	
Zn	66	1	No Gas	51.364	51.364	1.64	78510	0.07	2000	
Se	82	1	No Gas	50.829	50.829	0.90	4137	1.23	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	349465	0.86	330976	105.59	70	120	
Ge	72	2	He	519878	0.62	477078	108.97	70	120	
Ge	72	1	No Gas	974619	0.44	892758	109.17	70	120	
In	115	1	No Gas	1118073	0.48	1030948	108.45	70	120	

Sample Report

Bi	209	1	No Gas	1322200	8.03	1120748	117.97	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01SD
Data File Name	047SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:45:37-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD 199483
ISTD Ref FileName	020CALB.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	9.695	48.474	1.93	72828	0.01	2000	
Be	9	1	No Gas	0.052	0.262	47.58	120	0.04	2000	
V	51	2	He	2.208	11.039	2.63	24643	0.01	2000	
Cr	52	2	He	0.115	0.574	35.55	2484	0.00	2000	
Fe	56	2	He	12.228	61.142	3.90	104362	0.01	200000	
Se	78	2	He	-0.630	-3.151	-77.45	1934	-0.03	2000	
As	75	2	He	0.321	1.605	39.41	1149	0.03	2000	
Ca	44	2	He	2721.053	13605.264	0.35	133039	2.05	200000	
Na	23	2	He	169848.331	849241.655	0.60	175750644	0.10	200000	
Mg	24	2	He	3644.159	18220.795	0.73	2420967	0.15	200000	
K	39	2	He	411.848	2059.239	1.66	876832	0.05	200000	
Mn	55	2	He	5.497	27.486	1.98	23851	0.02	2000	
Co	59	2	He	0.063	0.317	16.59	677	0.01	2000	
Ni	60	2	He	0.138	0.689	36.16	353	0.04	2000	
Cu	63	2	He	0.473	2.364	9.22	2320	0.02	2000	
Zn	66	2	He	1.402	7.009	13.12	1807	0.08	2000	
Al	27	2	He	3.097	15.484	1.70	7015	0.04	2000	
B	11	1	No Gas	5.577	27.886	6.20	11683	0.05	2000	
Al	27	1	No Gas	3.123	15.615	2.63	75344	0.00	2000	
Si	28	1	No Gas	2122.044	10610.218	0.91	6970691	0.03	2000	>LDR
Ag	107	1	No Gas	0.076	0.378	12.39	753	0.01	2000	
Cd	111	1	No Gas	0.097	0.483	31.26	177	0.05	2000	
Sr	88	1	No Gas	72.195	360.973	0.41	960946	0.01	2000	
Mo	95	1	No Gas	0.133	0.663	17.33	423	0.03	2000	
Sn	118	1	No Gas	0.154	0.769	7.33	2134	0.01	2000	
Sb	121	1	No Gas	0.088	0.439	17.15	957	0.01	2000	
Ba	137	1	No Gas	39.833	199.166	0.33	85658	0.05	2000	
Tl	205	1	No Gas	0.099	0.497	13.42	2014	0.00	2000	
Tl	203	1	No Gas	0.104	0.522	4.55	870	0.01	2000	
Pb	208	1	No Gas	0.084	0.420	19.58	2704	0.00	2000	
U	238	1	No Gas	-0.003	-0.013	-71.62	433	0.00	2000	
Ca	43	2	He	2811.730	14058.649	4.62	7412	37.93	200000	
Sb	121	2	He	0.108	0.539	23.86	730	0.01	2000	
Ti	47	2	He	0.473	2.367	43.27	107	0.44	2000	
Cu	63	1	No Gas	3.393	16.967	3.42	27745	0.01	2000	
Zn	66	1	No Gas	1.414	7.069	7.26	3204	0.04	2000	
Se	82	1	No Gas	-0.256	-1.280	-181.25	-37	0.70	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	380273	0.36	330976	114.89	70	120	
Ge	72	2	He	499710	0.31	477078	104.74	70	120	
Ge	72	1	No Gas	928159	0.22	892758	103.97	70	120	
In	115	1	No Gas	1050308	0.33	1030948	101.88	70	120	
Bi	209	1	No Gas	1115553	0.52	1120748	99.54	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01MSD
Data File Name	049SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:50:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD 199483
ISTD Ref FileName	020CALB.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	43.500	43.500	0.50	252132	0.02	2000	
Be	9	1	No Gas	48.213	48.213	2.44	67515	0.07	2000	
V	51	2	He	55.944	55.944	0.51	261498	0.02	2000	
Cr	52	2	He	51.785	51.785	0.54	226930	0.02	2000	
Fe	56	2	He	5242.750	5242.750	0.83	23834998	0.02	200000	
Se	78	2	He	33.479	33.479	1.06	5133	0.65	2000	
As	75	2	He	54.355	54.355	0.93	45881	0.12	2000	
Ca	44	2	He	19044.307	19044.307	0.03	901211	2.11	200000	
Na	23	2	He	857855.031	857855.031	1.08	930621693	0.09	200000	>LDR
Mg	24	2	He	23374.804	23374.804	0.47	16290162	0.14	200000	
K	39	2	He	7386.760	7386.760	0.59	8559802	0.09	200000	
Mn	55	2	He	79.425	79.425	1.15	342694	0.02	2000	
Co	59	2	He	51.818	51.818	0.51	296524	0.02	2000	
Ni	60	2	He	51.193	51.193	1.85	69967	0.07	2000	
Cu	63	2	He	52.021	52.021	0.61	182101	0.03	2000	
Zn	66	2	He	55.120	55.120	0.64	47349	0.12	2000	
Al	27	2	He	112.703	112.703	0.69	67671	0.17	2000	
B	11	1	No Gas	32.509	32.509	1.90	29481	0.11	2000	
Al	27	1	No Gas	103.667	103.667	0.27	734074	0.01	2000	
Si	28	1	No Gas	10415.566	10415.566	1.46	34248660	0.03	2000	>LDR
Ag	107	1	No Gas	47.846	47.846	1.23	353156	0.01	2000	
Cd	111	1	No Gas	51.458	51.458	1.45	72542	0.07	2000	
Sr	88	1	No Gas	379.791	379.791	0.19	5323108	0.01	2000	
Mo	95	1	No Gas	53.843	53.843	1.14	139115	0.04	2000	
Sn	118	1	No Gas	0.329	0.329	14.24	2994	0.01	2000	
Sb	121	1	No Gas	48.394	48.394	1.38	349324	0.01	2000	
Ba	137	1	No Gas	250.347	250.347	0.91	566546	0.04	2000	
Tl	205	1	No Gas	43.159	43.159	1.41	658361	0.01	2000	
Tl	203	1	No Gas	47.787	47.787	2.60	275478	0.02	2000	
Pb	208	1	No Gas	51.680	51.680	0.82	1095312	0.00	2000	
U	238	1	No Gas	0.013	0.013	20.16	810	0.00	2000	
Ca	43	2	He	19522.653	19522.653	0.12	53591	36.43	200000	
Sb	121	2	He	51.793	51.793	0.49	243611	0.02	2000	
Ti	47	2	He	54.137	54.137	5.00	11565	0.47	2000	
Cu	63	1	No Gas	69.418	69.418	0.40	384803	0.02	2000	
Zn	66	1	No Gas	55.470	55.470	0.91	86065	0.06	2000	
Se	82	1	No Gas	34.168	34.168	4.54	2820	1.21	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	387217	0.94	330976	116.99	70	120	
Ge	72	2	He	524556	1.47	477078	109.95	70	120	
Ge	72	1	No Gas	990418	0.65	892758	110.94	70	120	
In	115	1	No Gas	1106418	0.71	1030948	107.32	70	120	
Bi	209	1	No Gas	1128895	1.19	1120748	100.73	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01PDS
Data File Name	050SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:52:36-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD 199483
ISTD Ref FileName	020CALB.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	43.076	43.076	0.59	247389	0.02	2000	
Be	9	1	No Gas	95.857	95.857	1.64	132839	0.07	2000	
V	51	2	He	104.661	104.661	1.12	480507	0.02	2000	
Cr	52	2	He	100.982	100.982	1.45	445515	0.02	2000	
Fe	56	2	He	10154.365	10154.365	1.09	46639204	0.02	200000	
Se	78	2	He	101.877	101.877	2.96	11483	0.89	2000	
As	75	2	He	104.766	104.766	1.20	88552	0.12	2000	
Ca	44	2	He	25454.814	25454.814	2.70	1213859	2.10	200000	
Na	23	2	He	824053.980	824053.980	1.09	904163267	0.09	200000	>LDR
Mg	24	2	He	27583.369	27583.369	0.65	19441602	0.14	200000	
K	39	2	He	12379.733	12379.733	1.18	14189071	0.09	200000	
Mn	55	2	He	127.395	127.395	1.11	555060	0.02	2000	
Co	59	2	He	100.140	100.140	1.49	579247	0.02	2000	
Ni	60	2	He	97.936	97.936	0.41	135217	0.07	2000	
Cu	63	2	He	100.102	100.102	0.93	353683	0.03	2000	
Zn	66	2	He	104.584	104.584	1.75	90209	0.12	2000	
Al	27	2	He	111.639	111.639	3.44	67862	0.16	2000	
B	11	1	No Gas	32.048	32.048	2.75	28881	0.11	2000	
Al	27	1	No Gas	103.701	103.701	0.71	739908	0.01	2000	
Si	28	1	No Gas	10125.623	10125.623	0.46	33568358	0.03	2000	>LDR
Ag	107	1	No Gas	93.547	93.547	0.60	698086	0.01	2000	
Cd	111	1	No Gas	100.888	100.888	0.96	143795	0.07	2000	
Sr	88	1	No Gas	366.085	366.085	0.35	5189090	0.01	2000	
Mo	95	1	No Gas	103.894	103.894	0.80	271383	0.04	2000	
Sn	118	1	No Gas	0.235	0.235	35.46	2620	0.01	2000	
Sb	121	1	No Gas	93.642	93.642	0.64	680779	0.01	2000	
Ba	137	1	No Gas	294.334	294.334	0.31	673630	0.04	2000	
Tl	205	1	No Gas	95.705	95.705	1.95	1481016	0.01	2000	
Tl	203	1	No Gas	97.111	97.111	0.61	567949	0.02	2000	
Pb	208	1	No Gas	100.044	100.044	0.18	2151060	0.00	2000	
U	238	1	No Gas	0.008	0.008	47.62	707	0.00	2000	
Ca	43	2	He	23901.763	23901.763	0.34	66346	36.03	200000	
Sb	121	2	He	98.594	98.594	2.04	468757	0.02	2000	
Ti	47	2	He	104.477	104.477	2.89	22549	0.46	2000	
Cu	63	1	No Gas	121.858	121.858	1.04	672020	0.02	2000	
Zn	66	1	No Gas	103.568	103.568	0.05	160821	0.06	2000	
Se	82	1	No Gas	104.597	104.597	0.26	8736	1.20	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	383319	0.94	330976	115.81	70	120	
Ge	72	2	He	530572	1.24	477078	111.21	70	120	
Ge	72	1	No Gas	997996	0.29	892758	111.79	70	120	
In	115	1	No Gas	1118946	0.58	1030948	108.54	70	120	
Bi	209	1	No Gas	1145676	0.54	1120748	102.22	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	052_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T19:10:16-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.382	22.8	20755	3.0	0.5	
Be	9	1	No Gas	-0.016	-30.1	22	26.6	0.5	
V	51	2	He	3.110	1.8	26094	1.3	2.5	CCB Main CR1 Failed
Cr	52	2	He	0.021	221.6	1924	9.6	2.5	
Fe	56	2	He	1.235	14.0	52213	1.4	100	
Se	78	2	He	2.907	15.7	2058	1.3	2	CCB Main CR1 Failed
As	75	2	He	0.182	45.6	954	6.1	2.5	
Ca	44	2	He	60.357	10.3	13577	1.3	100	
Na	23	2	He	315.270	1.3	550861	0.3	100	CCB Main CR1 Failed
Mg	24	2	He	-1.020	-21.4	1190	11.8	100	
K	39	2	He	66.533	10.1	474314	0.8	100	
Mn	55	2	He	-0.029	-105.7	1130	9.7	2.5	
Co	59	2	He	-0.015	-28.6	230	8.7	2.5	
Ni	60	2	He	-0.028	-15.0	127	4.6	2.5	
Cu	63	2	He	0.321	6.7	1667	3.3	2	
Zn	66	2	He	0.155	8.0	737	0.8	2.5	
Al	27	2	He	0.723	135.9	5298	8.3	5	
B	11	1	No Gas	-3.315	-20.8	5028	6.2	0.5	
Al	27	1	No Gas	0.722	15.3	54972	1.4	5	
Si	28	1	No Gas	32.681	16.0	579837	0.6	10	CCB Main CR1 Failed
Ag	107	1	No Gas	-0.002	-42.4	190	5.3	2.5	
Cd	111	1	No Gas	0.016	122.2	63	39.7	1	
Sr	88	1	No Gas	-0.005	-163.2	383	26.1	2.5	
Mo	95	1	No Gas	0.007	141.5	107	23.6	2.5	
Sn	118	1	No Gas	-0.060	-39.4	1160	8.7	5	
Sb	121	1	No Gas	0.029	38.9	510	15.3	2.5	
Ba	137	1	No Gas	0.031	107.4	150	43.7	2.5	
Tl	205	1	No Gas	0.001	168.7	497	9.3	1	
Tl	203	1	No Gas	0.001	541.1	257	6.0	1	
Pb	208	1	No Gas	0.023	30.3	1303	7.6	2.5	
U	238	1	No Gas	-0.015	-10.6	120	28.9	2.5	
Ca	43	2	He	23.161	170.9	120	79.5	100	
Sb	121	2	He	0.018	25.1	303	6.9	2.5	
Ti	47	2	He	0.127	48.1	33	34.6	2.5	
Cu	63	1	No Gas	5.226	6.2	33472	2.9	2.5	CCB Main CR1 Failed
Se	82	1	No Gas	-0.372	-464.9	-40	-297.0	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	319837	1.27	330976	96.63	70	120	
Ge	72	2	He	458887	0.63	477078	96.19	70	120	
Ge	72	1	No Gas	840400	1.92	892758	94.14	70	120	
In	115	1	No Gas	959358	1.96	1030948	93.06	70	120	
Bi	209	1	No Gas	1027069	2.72	1120748	91.64	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	053_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T19:12:37-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	97.623	2.008	458362	1.11	100	97.6	90	110	
Be	9	1	No Gas	96.979	0.738	115880	0.68	100	97.0	90	110	
V	51	2	He	98.396	0.670	415420	0.56	100	98.4	90	110	
Cr	52	2	He	98.144	0.491	397369	0.44	100	98.1	90	110	
Fe	56	2	He	9917.797	0.521	41799687	0.49	10000	99.2	90	110	
Se	78	2	He	100.509	2.424	10422	1.82	100	100.5	90	110	
As	75	2	He	98.218	1.321	76230	1.19	100	98.2	90	110	
Ca	44	2	He	9946.241	0.505	442437	0.49	10000	99.5	90	110	
Na	23	2	He	10208.256	0.876	10541374	0.70	10000	102.1	90	110	
Mg	24	2	He	9891.909	0.854	6398525	0.70	10000	98.9	90	110	
K	39	2	He	10054.812	0.459	10656060	0.38	10000	100.5	90	110	
Mn	55	2	He	98.812	0.666	395313	0.53	100	98.8	90	110	
Co	59	2	He	98.444	0.448	522533	0.35	100	98.4	90	110	
Ni	60	2	He	96.928	0.225	122791	0.28	100	96.9	90	110	
Cu	63	2	He	97.688	0.359	316725	0.29	100	97.7	90	110	
Zn	66	2	He	98.695	0.902	78154	0.74	100	98.7	90	110	
Al	27	2	He	108.707	0.651	60763	0.75	100	108.7	90	110	
B	11	1	No Gas	467.884	1.086	267786	1.80	500	93.6	90	110	
Al	27	1	No Gas	102.243	0.918	655503	0.02	100	102.2	90	110	
Si	28	1	No Gas	587.346	0.611	2240011	1.04	5000	11.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.623	1.402	676009	0.60	100	99.6	90	110	
Cd	111	1	No Gas	99.600	1.481	129085	0.71	100	99.6	90	110	
Sr	88	1	No Gas	100.517	1.504	1296015	1.60	100	100.5	90	110	
Mo	95	1	No Gas	99.133	1.073	235472	0.15	100	99.1	90	110	
Sn	118	1	No Gas	99.207	0.571	390415	1.13	100	99.2	90	110	
Sb	121	1	No Gas	91.479	0.470	596917	0.57	100	91.5	90	110	
Ba	137	1	No Gas	97.837	1.491	203673	0.59	100	97.8	90	110	
Tl	205	1	No Gas	94.691	1.471	1429985	2.17	100	94.7	90	110	
Tl	203	1	No Gas	95.028	1.468	542266	0.59	100	95.0	90	110	
Pb	208	1	No Gas	91.395	0.236	1917539	0.86	100	91.4	90	110	
U	238	1	No Gas	98.058	1.241	2383127	2.23	100	98.1	90	110	
Ca	43	2	He	10279.367	2.884	26219	2.74	10000	102.8	90	110	
Sb	121	2	He	96.167	1.240	419575	1.11	100	96.2	90	110	
Ti	47	2	He	101.620	3.674	20128	3.73	100	101.6	90	110	
Cu	63	1	No Gas	104.017	0.245	516367	1.08	100	104.0	90	110	
Se	82	1	No Gas	96.752	2.908	7251	2.69	100	96.8	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	330493	0.86	330976	99.85	70	120	
Ge	72	2	He	486810	0.16	477078	102.04	70	120	
Ge	72	1	No Gas	895744	0.84	892758	100.33	70	120	
In	115	1	No Gas	1017560	1.03	1030948	98.70	70	120	
Bi	209	1	No Gas	1117911	1.03	1120748	99.75	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	054_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T19:17:30-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.199	16.7	20412	0.8	0.5	
Be	9	1	No Gas	0.081	42.7	137	29.6	0.5	
V	51	2	He	0.632	13.6	17209	1.9	2.5	
Cr	52	2	He	0.114	18.6	2364	2.7	2.5	
Fe	56	2	He	9.043	12.8	86295	4.9	100	
Se	78	2	He	1.990	20.2	2059	0.8	2	
As	75	2	He	0.112	44.8	938	3.2	2.5	
Ca	44	2	He	37.381	12.3	13113	1.3	100	
Na	23	2	He	208.874	2.2	466764	0.5	100	CCB Main CR1 Failed
Mg	24	2	He	7.503	19.6	6623	13.9	100	
K	39	2	He	41.042	13.8	466756	1.2	100	
Mn	55	2	He	0.027	174.2	1390	12.3	2.5	
Co	59	2	He	0.081	18.2	737	10.0	2.5	
Ni	60	2	He	0.060	95.2	240	29.2	2.5	
Cu	63	2	He	0.308	11.0	1690	5.6	2	
Zn	66	2	He	0.237	5.9	827	1.8	2.5	
Al	27	2	He	0.570	60.8	5421	2.9	5	
B	11	1	No Gas	3.106	36.1	8686	7.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.658	28.7	57674	1.1	5	
Si	28	1	No Gas	18.982	12.9	572756	0.3	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.087	14.5	797	11.3	2.5	
Cd	111	1	No Gas	0.084	20.5	153	15.1	1	
Sr	88	1	No Gas	0.085	12.2	1544	8.6	2.5	
Mo	95	1	No Gas	0.099	50.6	327	35.9	2.5	
Sn	118	1	No Gas	0.131	8.5	1957	2.8	5	
Sb	121	1	No Gas	0.120	16.8	1123	11.3	2.5	
Ba	137	1	No Gas	0.097	21.9	293	15.4	2.5	
Tl	205	1	No Gas	0.207	27.5	3511	22.9	1	
Tl	203	1	No Gas	0.242	27.8	1597	22.4	1	
Pb	208	1	No Gas	0.081	21.7	2554	13.7	2.5	
U	238	1	No Gas	0.074	24.4	2220	19.3	2.5	
Ca	43	2	He	10.738	91.2	93	27.0	100	
Sb	121	2	He	0.110	22.8	707	15.6	2.5	
Ti	47	2	He	0.275	53.8	63	45.6	2.5	
Cu	63	1	No Gas	4.002	4.5	29456	1.9	2.5	CCB Main CR1 Failed
Se	82	1	No Gas	-0.691	-197.6	-67	-150.8	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	327102	0.43	330976	98.83	70	120	
Ge	72	2	He	476077	0.85	477078	99.79	70	120	
Ge	72	1	No Gas	887448	1.08	892758	99.41	70	120	
In	115	1	No Gas	1006076	0.66	1030948	97.59	70	120	
Bi	209	1	No Gas	1079839	0.69	1120748	96.35	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	055_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T19:20:31-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.183	63.4	20311	3.0	0.5	
Be	9	1	No Gas	0.009	120.2	52	24.4	0.5	
V	51	2	He	0.897	8.8	18261	1.6	2.5	
Cr	52	2	He	0.097	42.8	2294	7.3	2.5	
Fe	56	2	He	2.035	23.4	57459	3.6	100	
Se	78	2	He	1.967	36.7	2057	2.8	2	
As	75	2	He	-0.060	-41.4	809	2.4	2.5	
Ca	44	2	He	33.921	44.3	12966	5.1	100	
Na	23	2	He	187.870	1.0	446060	0.5	100	CCB Main CR1 Failed
Mg	24	2	He	1.163	39.4	2614	11.1	100	
K	39	2	He	16.502	17.0	442321	0.6	100	
Mn	55	2	He	0.001	1148.5	1290	2.7	2.5	
Co	59	2	He	0.008	140.0	360	16.9	2.5	
Ni	60	2	He	0.014	266.4	183	25.2	2.5	
Cu	63	2	He	0.200	15.0	1347	6.9	2	
Zn	66	2	He	0.159	44.8	767	7.2	2.5	
Al	27	2	He	0.103	329.0	5188	3.4	5	
B	11	1	No Gas	-0.273	-193.5	6812	4.1	0.5	
Al	27	1	No Gas	0.620	10.7	57640	0.8	5	
Si	28	1	No Gas	16.513	8.5	567420	0.3	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.032	20.4	430	10.1	2.5	
Cd	111	1	No Gas	0.024	82.0	77	32.8	1	
Sr	88	1	No Gas	0.024	27.6	777	11.1	2.5	
Mo	95	1	No Gas	0.025	35.8	153	13.6	2.5	
Sn	118	1	No Gas	0.057	24.6	1683	3.3	5	
Sb	121	1	No Gas	0.033	13.4	560	4.7	2.5	
Ba	137	1	No Gas	0.054	80.4	207	43.4	2.5	
Tl	205	1	No Gas	0.032	21.7	980	10.7	1	
Tl	203	1	No Gas	0.024	24.2	403	7.6	1	
Pb	208	1	No Gas	0.024	36.6	1407	11.8	2.5	
U	238	1	No Gas	0.015	26.3	827	11.2	2.5	
Ca	43	2	He	4.088	203.7	77	27.2	100	
Sb	121	2	He	0.027	23.7	350	7.6	2.5	
Ti	47	2	He	0.052	172.8	20	86.6	2.5	
Cu	63	1	No Gas	3.533	3.3	27284	1.9	2.5	CCB Main CR1 Failed
Se	82	1	No Gas	-0.495	-109.3	-53	-75.7	2	

QC ISTD Table

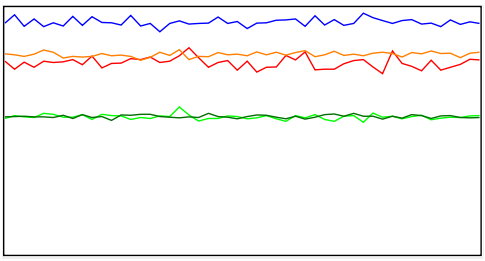
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	326601	0.47	330976	98.68	70	120	
Ge	72	2	He	476021	0.16	477078	99.78	70	120	
Ge	72	1	No Gas	890239	0.39	892758	99.72	70	120	
In	115	1	No Gas	1015348	0.07	1030948	98.49	70	120	
Bi	209	1	No Gas	1086179	0.92	1120748	96.92	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\082823A.b
Acq. Date-Time	8/28/2023 9:35:39 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	2000	1553	15528.10		
24	10000	5567	55669.97		
59	10000	9414	94136.89		
115	20000	16207	162072.23		
208	20000	11167	111666.83		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.905	5.000	
24	1.827	5.000	
59	1.617	5.000	
115	1.182	5.000	
208	1.124	5.000	

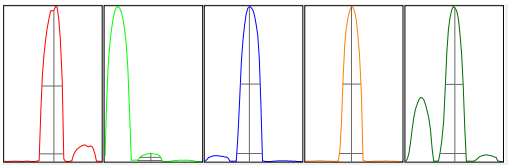
Mass	Background	Background (Required)	Background (Flag)
9	3.700		
24	0.700		
59	0.500		
115	1.200		
208	2.400		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.632 %
Doubly Charged	70 / 140 0.945 %

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	1540.39	9.05	8.90 - 9.10	
24	5526.06	23.95	23.90 - 24.10	
59	9616.94	58.90	58.90 - 59.10	
115	16345.86	114.95	114.90 - 115.10	
208	11043.93	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.740		
24	0.63	0.744		
59	0.61	0.778		
115	0.55	0.714		
208	0.55	0.795		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.80 L/min	Dilution Gas	0.27 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 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	10.2 V	Deflect	14.8 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-75 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	0.9995	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.4 mm

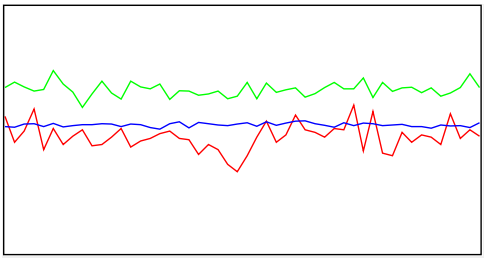
EM

Discriminator	4.0 mV	Analog HV	2215 V	Pulse HV	1289 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	200	94	942.43		
24	1000	664	6641.97		
59	10000	5204	52037.05		

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

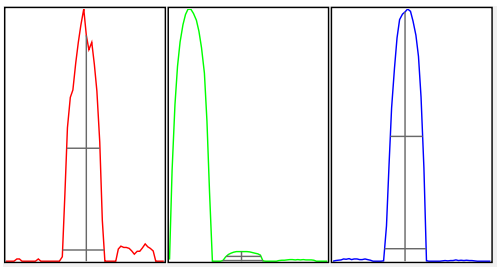
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	11.647	5.000	Fail
24	4.166	5.000	
59	1.492	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	1.000		
24	0.500		
59	0.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.646 %
Doubly Charged	70 / 140 0.902 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	98.26	9.05	8.90 - 9.10	
24	655.43	23.90	23.90 - 24.10	
59	5137.56	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.781		
24	0.65	0.755		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.60	0.776		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.80 L/min	Dilution Gas	0.27 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 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	7.6 V	Deflect	0.2 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-95 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	3.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9995	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.4 mm

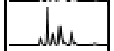
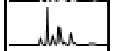
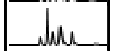
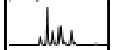
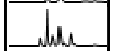
EM

Discriminator	4.0 mV	Analog HV	2215 V	Pulse HV	1289 V

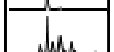
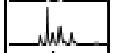
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ALS WO# HS23081040

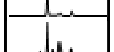
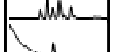
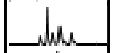
Sequence: 082423
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratic	GA1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratic	GA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratic	GA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratic	GA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratic	GA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratic	GA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknowr	GA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknowr	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknowr	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknowr	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK-199346	REP	Unknowr	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS-199346	REP	Unknowr	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080722-03	REP	Unknowr	RA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080722-03MS	REP	Unknowr	RA2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080722-03MSD	REP	Unknowr	RA3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080722-03DF5	REP	Unknowr	RA4	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080722-13DF5	REP	Unknowr	RA5	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080805-07DF10	REP	Unknowr	RA6	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080844-02	REP	Unknowr	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080844-03	REP	Unknowr	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknowr	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknowr	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081386-02	REP	Unknowr	RB2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081386-03	REP	Unknowr	RB3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081386-04	REP	Unknowr	RB4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081226-03	REP	Unknowr	RB5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

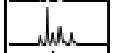
Sequence: 082423
Last Update Operator: alshs.nouser

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	HS23081374-02DF2	REP	Unknown	RB6	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081374-03DF2	REP	Unknown	RB7	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081374-04DF2	REP	Unknown	RB8	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081374-05	REP	Unknown	RC1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081374-06	REP	Unknown	RC2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081374-07	REP	Unknown	RC3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081374-08DF2	REP	Unknown	RC4	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081374-09	REP	Unknown	RC5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081374-10	REP	Unknown	RC6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081374-11	REP	Unknown	RC7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	300-W-SH	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081441-01		Unknown	RC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081441-01MS		Unknown	RD1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081441-01MSD		Unknown	RD2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081441-02		Unknown	RD3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081441-03		Unknown	RD4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081441-04		Unknown	RD5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081485-01		Unknown	RD6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081386-01	REP	Unknown	RB1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081441-02MS		Unknown	RD7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

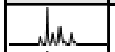
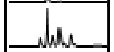
Sequence: 082423
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	HS23081441-02MSD		Unknown	RD8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081441-03MS		Unknown	RE1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081441-03MSD		Unknown	RE2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081441-04MS		Unknown	RE3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081441-04MSD		Unknown	RE4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-02		Unknown	RE5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-02DF5		Unknown	RE6	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-03		Unknown	RE7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-03DF5		Unknown	RE8	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-01DF5		Unknown	GA7	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-01DF100		Unknown	GA8	100.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-04		Unknown	GA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-04DF5		Unknown	GA2	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-05		Unknown	GA3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-06		Unknown	GA4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-06DF5		Unknown	GA5	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081484-07		Unknown	GA6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081454-01		Unknown	GB1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081454-02DF5		Unknown	GB2	5.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	300-W-SH-1	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-01		Unknown	GB3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-01MS		Unknown	GB4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

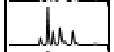
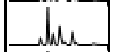
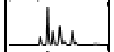
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Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
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	HS23081488-02		Unknown	GB6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-02MS		Unknown	GB7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-02MSD		Unknown	GB8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-03		Unknown	GC1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-04		Unknown	GC2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-05		Unknown	GC3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-06		Unknown	GC4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-07		Unknown	GC5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-08		Unknown	GC6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-09		Unknown	GC7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-10		Unknown	GC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081488-11		Unknown	GD1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081512-01		Unknown	GD2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081512-02		Unknown	GD3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
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	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081512-04		Unknown	GD5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081512-05		Unknown	GD6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081512-05DF10		Unknown	GD7	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081512-06	300-W-SH-1	Unknown	GD8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	9056-W-SH	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

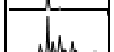
Sequence: 082423
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081487-01		Unknown	GE1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081487-01MS		Unknown	GE2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081487-01MSD		Unknown	GE3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081487-01DF10		Unknown	GE4	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081040-01		Unknown	GE5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081040-01DF10		Unknown	GE6	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081076-01DF2		Unknown	GE7	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23081076-01DF40		Unknown	GE8	40.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080849-01		Unknown	BA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080849-02		Unknown	BA2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080849-03		Unknown	BA3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080849-04		Unknown	BA4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080849-05		Unknown	BA5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080849-06		Unknown	BA6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23080849-07		Unknown	BA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

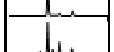
Sequence: 082423
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	8/8/2023 9:18:53 AM -05:00
Anions Processing Method ISO		STD2	5.0	Finished	8/8/2023 9:24:41 AM -05:00
Anions Processing Method ISO		STD3	5.0	Finished	8/8/2023 9:30:41 AM -05:00
Anions Processing Method ISO		STD4	5.0	Finished	8/8/2023 9:36:40 AM -05:00
Anions Processing Method ISO		STD5	5.0	Finished	8/8/2023 9:42:29 AM -05:00
Anions Processing Method ISO		STD6	5.0	Finished	8/8/2023 9:48:17 AM -05:00
Anions Processing Method ISO		ICV	5.0	Finished	8/8/2023 9:59:54 AM -05:00
Anions Processing Method ISO		ICB	5.0	Finished	8/8/2023 10:05:42 AM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	8/24/2023 9:07:48 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/24/2023 9:19:22 AM -05:00
Anions Processing Method ISO		MBLK-199346	5.0	Finished	8/24/2023 9:30:57 AM -05:00
Anions Processing Method ISO		LCS-199346	5.0	Finished	8/24/2023 9:36:44 AM -05:00
Anions Processing Method ISO		HS23080722-03	5.0	Finished	8/24/2023 9:56:54 AM -05:00
Anions Processing Method ISO		HS23080722-03MS	5.0	Finished	8/24/2023 10:02:42 AM -05:00
Anions Processing Method ISO		HS23080722-03MSD	5.0	Finished	8/24/2023 10:08:29 AM -05:00
Anions Processing Method ISO		HS23080722-03DF5	5.0	Finished	8/24/2023 10:14:16 AM -05:00
Anions Processing Method ISO		HS23080722-13DF5	5.0	Finished	8/24/2023 10:20:04 AM -05:00
Anions Processing Method ISO		HS23080805-07DF10	5.0	Finished	8/24/2023 10:25:51 AM -05:00
Anions Processing Method ISO		HS23080844-02	5.0	Finished	8/24/2023 10:31:38 AM -05:00
Anions Processing Method ISO		HS23080844-03	5.0	Finished	8/24/2023 10:37:25 AM -05:00
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Anions Processing Method ISO		CCB	5.0	Finished	8/24/2023 10:54:47 AM -05:00
Anions Processing Method ISO		HS23081386-02	5.0	Finished	8/24/2023 11:12:09 AM -05:00
Anions Processing Method ISO		HS23081386-03	5.0	Finished	8/24/2023 11:17:57 AM -05:00
Anions Processing Method ISO		HS23081386-04	5.0	Finished	8/24/2023 11:23:44 AM -05:00
Anions Processing Method ISO		HS23081226-03	5.0	Finished	8/24/2023 11:29:31 AM -05:00

Sequence: 082423
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		HS23081374-02DF2	5.0	Finished	8/24/2023 11:35:19 AM -05:00
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Anions Processing Method ISO		HS23081374-04DF2	5.0	Finished	8/24/2023 11:46:54 AM -05:00
Anions Processing Method ISO		HS23081374-05	5.0	Finished	8/24/2023 11:52:41 AM -05:00
Anions Processing Method ISO		HS23081374-06	5.0	Finished	8/24/2023 11:58:28 AM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	8/24/2023 12:10:03 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/24/2023 12:15:50 PM -05:00
Anions Processing Method ISO		HS23081374-07	5.0	Finished	8/24/2023 12:27:25 PM -05:00
Anions Processing Method ISO		HS23081374-08DF2	5.0	Finished	8/24/2023 12:33:12 PM -05:00
Anions Processing Method ISO		HS23081374-09	5.0	Finished	8/24/2023 12:39:00 PM -05:00
Anions Processing Method ISO		HS23081374-10	5.0	Finished	8/24/2023 12:44:47 PM -05:00
Anions Processing Method ISO		HS23081374-11	5.0	Finished	8/24/2023 12:50:35 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	8/24/2023 1:02:09 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/24/2023 1:13:44 PM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	8/24/2023 1:25:19 PM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	8/24/2023 1:31:06 PM -05:00
Anions Processing Method ISO		HS23081441-01	5.0	Finished	8/24/2023 1:37:05 PM -05:00
Anions Processing Method ISO		HS23081441-01MS	5.0	Finished	8/24/2023 1:42:52 PM -05:00
Anions Processing Method ISO		HS23081441-01MSD	5.0	Finished	8/24/2023 1:48:39 PM -05:00
Anions Processing Method ISO		HS23081441-02	5.0	Finished	8/24/2023 1:54:27 PM -05:00
Anions Processing Method ISO		HS23081441-03	5.0	Finished	8/24/2023 2:00:14 PM -05:00
Anions Processing Method ISO		HS23081441-04	5.0	Finished	8/24/2023 2:06:02 PM -05:00
Anions Processing Method ISO		HS23081485-01	5.0	Finished	8/24/2023 2:11:49 PM -05:00
Anions Processing Method ISO		HS23081386-01	5.0	Finished	8/24/2023 2:17:36 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	8/24/2023 2:23:24 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/24/2023 2:34:59 PM -05:00
Anions Processing Method ISO		HS23081441-02MS	5.0	Finished	8/24/2023 2:46:34 PM -05:00

Sequence: 082423
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		HS23081441-02MSD	5.0	Finished	8/24/2023 2:52:21 PM -05:00
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Anions Processing Method ISO		HS23081441-03MSD	5.0	Finished	8/24/2023 3:04:18 PM -05:00
Anions Processing Method ISO		HS23081441-04MS	5.0	Finished	8/24/2023 3:10:06 PM -05:00
Anions Processing Method ISO		HS23081441-04MSD	5.0	Finished	8/24/2023 3:15:53 PM -05:00
Anions Processing Method ISO		HS23081484-02	5.0	Finished	8/24/2023 3:21:41 PM -05:00
Anions Processing Method ISO		HS23081484-02DF5	5.0	Finished	8/24/2023 3:27:28 PM -05:00
Anions Processing Method ISO		HS23081484-03	5.0	Finished	8/24/2023 3:33:15 PM -05:00
Anions Processing Method ISO		HS23081484-03DF5	5.0	Finished	8/24/2023 3:39:03 PM -05:00
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Anions Processing Method ISO		CCB	5.0	Finished	8/24/2023 4:08:00 PM -05:00
Anions Processing Method ISO		HS23081484-01DF5	5.0	Finished	8/24/2023 4:19:46 PM -05:00
Anions Processing Method ISO		HS23081484-01DF100	5.0	Finished	8/24/2023 4:25:33 PM -05:00
Anions Processing Method ISO		HS23081484-04	5.0	Finished	8/24/2023 4:31:21 PM -05:00
Anions Processing Method ISO		HS23081484-04DF5	5.0	Finished	8/24/2023 4:37:08 PM -05:00
Anions Processing Method ISO		HS23081484-05	5.0	Finished	8/24/2023 4:42:56 PM -05:00
Anions Processing Method ISO		HS23081484-06	5.0	Finished	8/24/2023 4:48:43 PM -05:00
Anions Processing Method ISO		HS23081484-06DF5	5.0	Finished	8/24/2023 4:54:31 PM -05:00
Anions Processing Method ISO		HS23081484-07	5.0	Finished	8/24/2023 5:00:18 PM -05:00
Anions Processing Method ISO		HS23081454-01	5.0	Finished	8/24/2023 5:06:06 PM -05:00
Anions Processing Method ISO		HS23081454-02DF5	5.0	Finished	8/24/2023 5:11:53 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	8/24/2023 5:23:28 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/24/2023 5:35:03 PM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	8/24/2023 5:46:38 PM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	8/24/2023 5:52:25 PM -05:00
Anions Processing Method ISO		HS23081488-01	5.0	Finished	8/24/2023 5:58:12 PM -05:00
Anions Processing Method ISO		HS23081488-01MS	5.0	Finished	8/24/2023 6:04:00 PM -05:00

Sequence: 082423
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		HS23081488-01MSD	5.0	Finished	8/24/2023 6:09:47 PM -05:00
Anions Processing Method ISO		HS23081488-02	5.0	Finished	8/24/2023 6:15:35 PM -05:00
Anions Processing Method ISO		HS23081488-02MS	5.0	Finished	8/24/2023 6:21:22 PM -05:00
Anions Processing Method ISO		HS23081488-02MSD	5.0	Finished	8/24/2023 6:27:10 PM -05:00
Anions Processing Method ISO		HS23081488-03	5.0	Finished	8/24/2023 6:32:57 PM -05:00
Anions Processing Method ISO		HS23081488-04	5.0	Finished	8/24/2023 6:38:45 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	8/24/2023 6:50:20 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/24/2023 7:01:55 PM -05:00
Anions Processing Method ISO		HS23081488-05	5.0	Finished	8/24/2023 7:13:30 PM -05:00
Anions Processing Method ISO		HS23081488-06	5.0	Finished	8/24/2023 7:19:17 PM -05:00
Anions Processing Method ISO		HS23081488-07	5.0	Finished	8/24/2023 7:25:05 PM -05:00
Anions Processing Method ISO		HS23081488-08	5.0	Finished	8/24/2023 7:30:52 PM -05:00
Anions Processing Method ISO		HS23081488-09	5.0	Finished	8/24/2023 7:36:40 PM -05:00
Anions Processing Method ISO		HS23081488-10	5.0	Finished	8/24/2023 7:42:27 PM -05:00
Anions Processing Method ISO		HS23081488-11	5.0	Finished	8/24/2023 7:48:15 PM -05:00
Anions Processing Method ISO		HS23081512-01	5.0	Finished	8/24/2023 7:54:02 PM -05:00
Anions Processing Method ISO		HS23081512-02	5.0	Finished	8/24/2023 7:59:50 PM -05:00
Anions Processing Method ISO		HS23081512-03	5.0	Finished	8/24/2023 8:05:37 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	8/24/2023 8:17:12 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/24/2023 8:23:00 PM -05:00
Anions Processing Method ISO		HS23081512-04	5.0	Finished	8/24/2023 8:34:35 PM -05:00
Anions Processing Method ISO		HS23081512-05	5.0	Finished	8/24/2023 8:40:22 PM -05:00
Anions Processing Method ISO		HS23081512-05DF10	5.0	Finished	8/24/2023 8:46:10 PM -05:00
Anions Processing Method ISO		HS23081512-06	5.0	Finished	8/24/2023 8:51:57 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	8/24/2023 9:03:32 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/24/2023 9:15:07 PM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	8/24/2023 9:26:42 PM -05:00

Sequence: 082423
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		LCS	5.0	Finished	8/24/2023 9:32:29 PM -05:00
Anions Processing Method ISO		HS23081487-01	5.0	Finished	8/24/2023 9:38:17 PM -05:00
Anions Processing Method ISO		HS23081487-01MS	5.0	Finished	8/24/2023 9:44:04 PM -05:00
Anions Processing Method ISO		HS23081487-01MSD	5.0	Finished	8/24/2023 9:49:51 PM -05:00
Anions Processing Method ISO		HS23081487-01DF10	5.0	Finished	8/24/2023 9:55:39 PM -05:00
Anions Processing Method ISO		HS23081040-01	5.0	Finished	8/24/2023 10:01:26 PM -05:00
Anions Processing Method ISO		HS23081040-01DF10	5.0	Finished	8/24/2023 10:07:14 PM -05:00
Anions Processing Method ISO		HS23081076-01DF2	5.0	Finished	8/24/2023 10:13:01 PM -05:00
Anions Processing Method ISO		HS23081076-01DF40	5.0	Finished	8/24/2023 10:18:49 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	8/24/2023 10:30:24 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/24/2023 10:41:59 PM -05:00
Anions Processing Method ISO		HS23080849-01	5.0	Finished	8/24/2023 10:53:45 PM -05:00
Anions Processing Method ISO		HS23080849-02	5.0	Finished	8/24/2023 10:59:32 PM -05:00
Anions Processing Method ISO		HS23080849-03	5.0	Finished	8/24/2023 11:05:19 PM -05:00
Anions Processing Method ISO		HS23080849-04	5.0	Finished	8/24/2023 11:11:07 PM -05:00
Anions Processing Method ISO		HS23080849-05	5.0	Finished	8/24/2023 11:16:54 PM -05:00
Anions Processing Method ISO		HS23080849-06	5.0	Finished	8/24/2023 11:22:42 PM -05:00
Anions Processing Method ISO		HS23080849-07	5.0	Finished	8/24/2023 11:28:29 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	8/24/2023 11:51:39 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	8/25/2023 12:03:14 AM -05:00

Sequence: 080823
Injection #6: STD6

Calibration

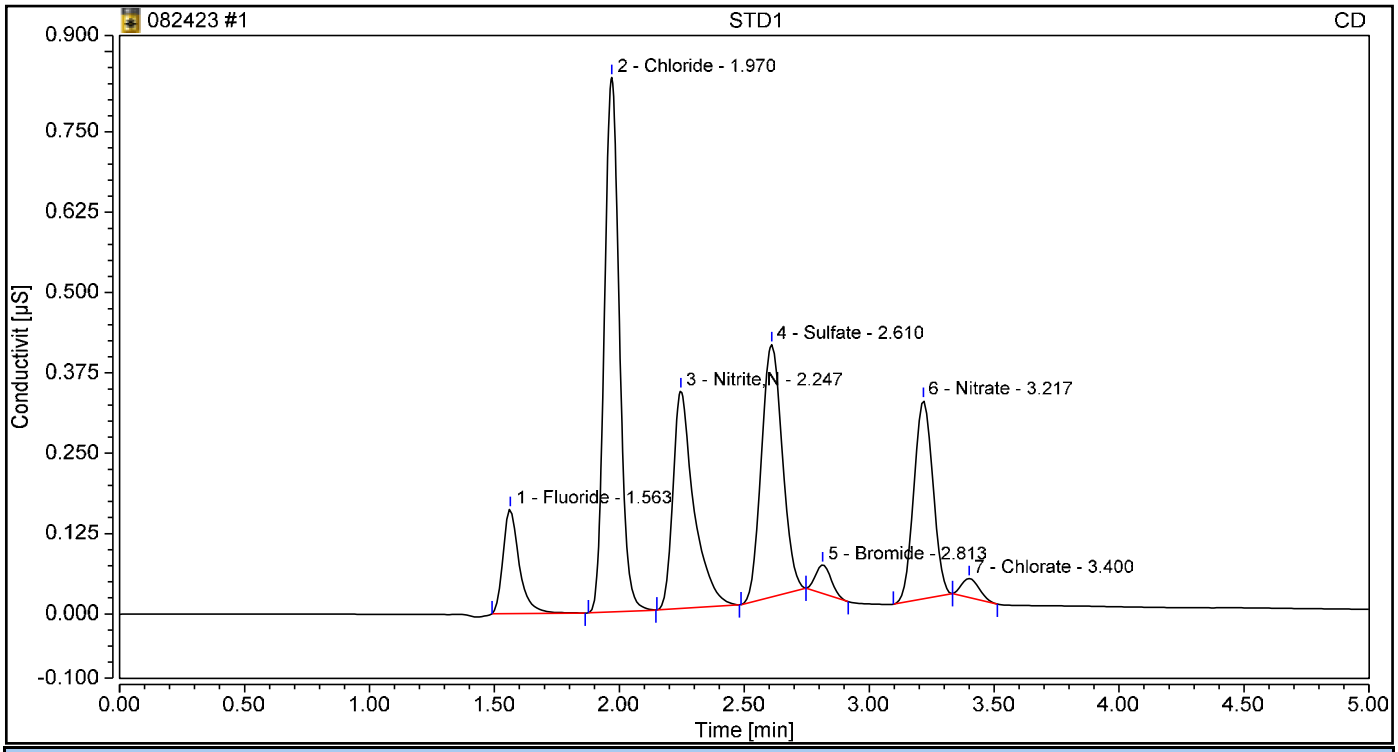
Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	Fluoride	Quad, WithOffset, 1/A	Area	6	20.1152	0.99884	-0.0155	0.2303	0.0000
2	Chloride	Lin, WithOffset, 1/A	Area	6	4.2696	0.99992	-0.0316	0.1715	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	5.5774	0.99985	-0.0051	0.3800	-0.0045
4	Sulfate	Lin, WithOffset, 1/A	Area	6	21.8403	0.99800	-0.0271	0.1106	0.0000
5	Bromide	Quad, WithOffset, 1/A	Area	6	27.4700	0.99813	-0.0002	0.0331	0.0011
6	Nitrate	Lin, WithOffset, 1/A	Area	6	5.1550	0.99988	-0.0104	0.3739	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	6	6.2932	0.99985	-0.0019	0.0405	-0.0004
n.a.	Phosphate	Lin, WithOffset, 1/A	Area	0	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**27.4700**	0.99992			
Minimum					4.2696	**0.99800**			

Chromatogram and Results

Injection Details

Injection Name:	**STD1**	*Run Time (min):*	**5.00**
Vial Number:	**GA1**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**1**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:18**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

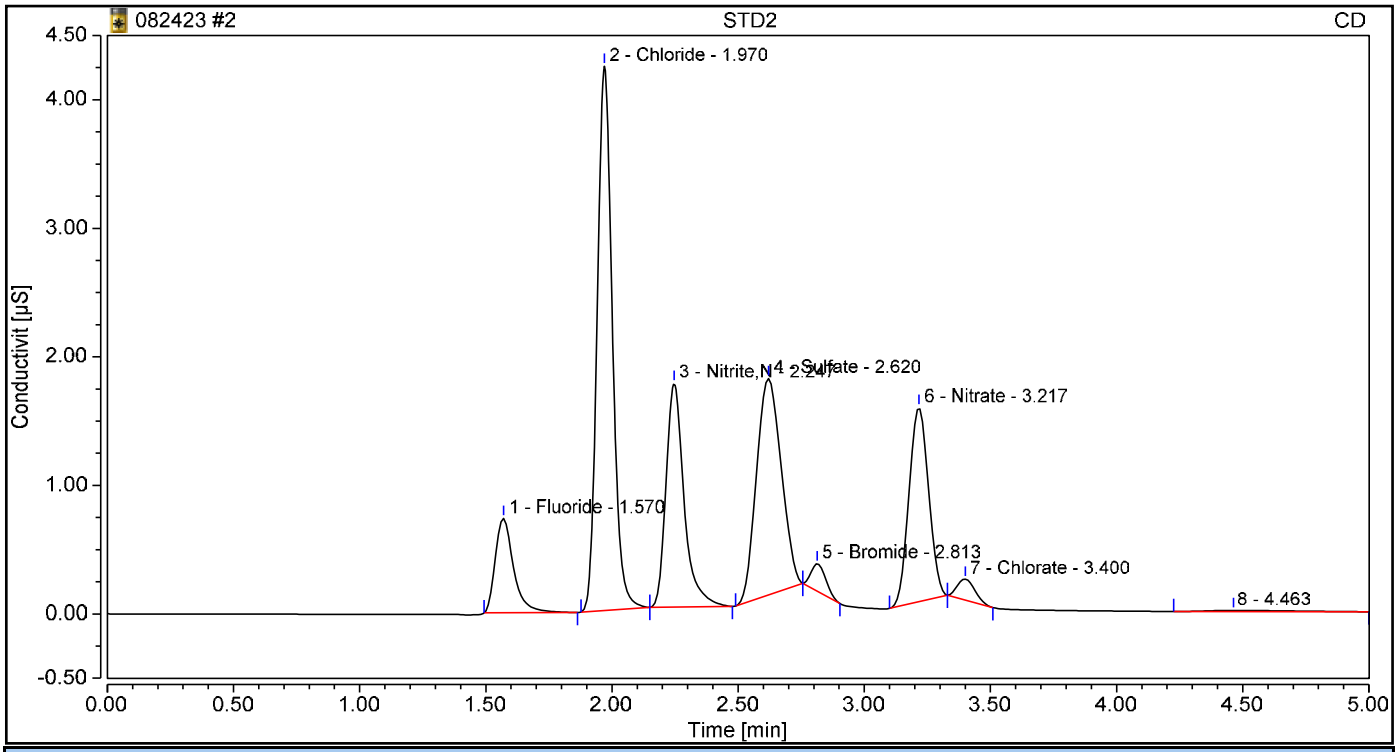
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.563	0.012	0.162	7.05	7.70	0.1207
2	Chloride	1.970	0.058	0.831	33.23	39.44	0.5225
3	Nitrite,N	2.247	0.033	0.339	18.77	16.06	0.0996
4	Sulfate	2.610	0.038	0.393	21.99	18.62	0.5916
5	Bromide	2.813	0.003	0.045	1.87	2.12	0.1046
6	Nitrate	3.217	0.027	0.309	15.71	14.65	0.1010
7	Chlorate	3.400	0.002	0.030	1.38	1.40	0.1068
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.174**	**2.108**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD2**	*Run Time (min):*	**5.00**
Vial Number:	**GA2**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**2**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:24**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

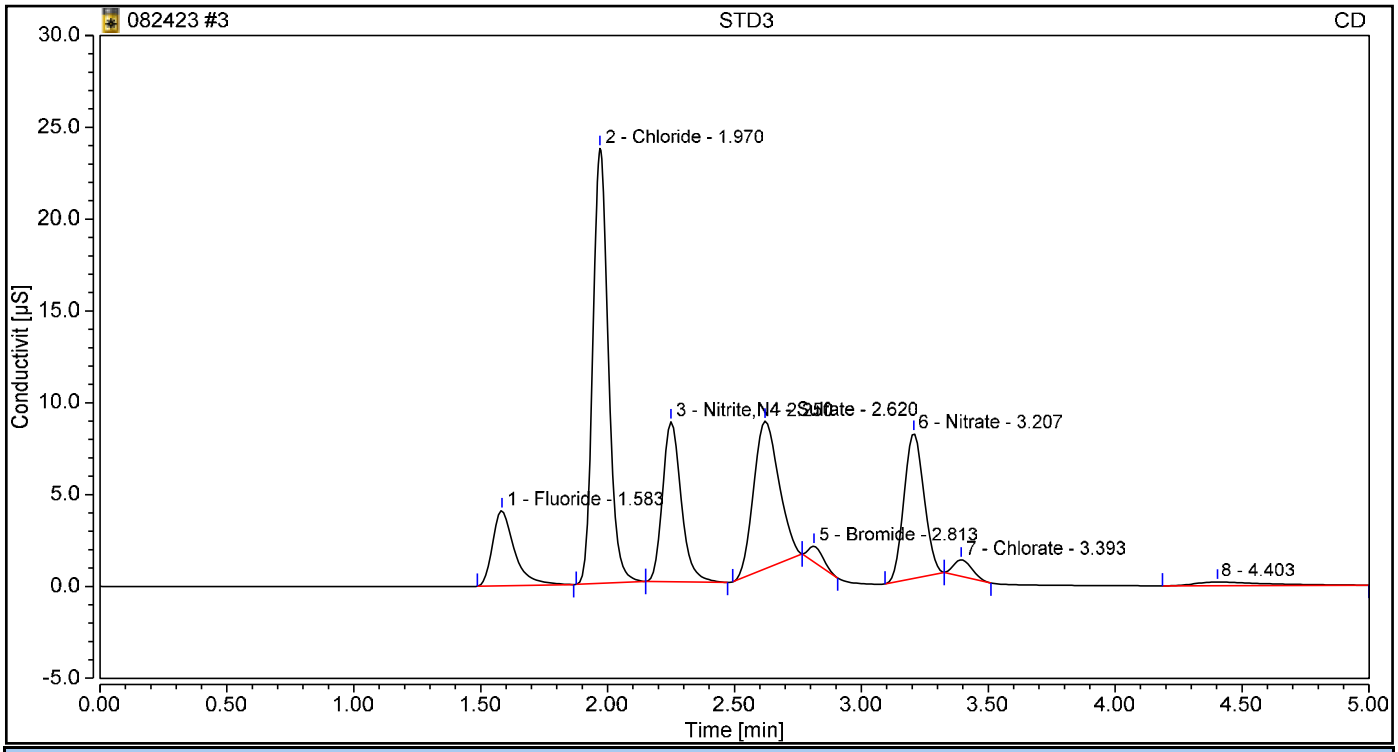
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.570	0.062	0.734	7.21	7.13	0.3362
2	Chloride	1.970	0.294	4.235	34.21	41.15	1.8982
3	Nitrite,N	2.247	0.144	1.741	16.77	16.92	0.3943
4	Sulfate	2.620	0.191	1.683	22.27	16.36	1.9750
5	Bromide	2.813	0.015	0.214	1.70	2.08	0.4420
6	Nitrate	3.217	0.137	1.512	15.90	14.69	0.3931
7	Chlorate	3.400	0.013	0.164	1.55	1.59	0.3772
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.463	0.003	0.009	0.40	0.09	n.a.
Total:			**0.859**	**10.291**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD3**	*Run Time (min):*	**5.00**
Vial Number:	**GA3**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**3**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

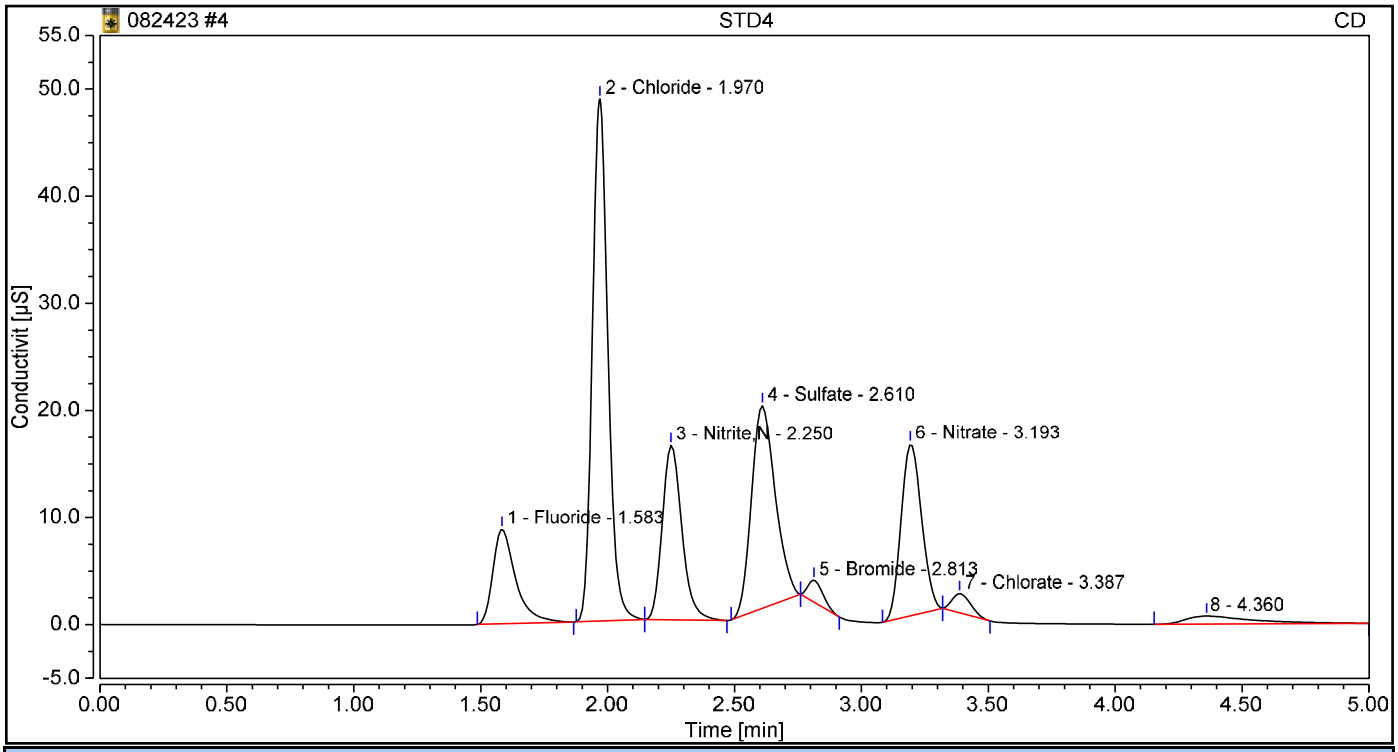
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.583	0.407	4.090	8.71	7.52	1.8358
2	Chloride	1.970	1.666	23.684	35.62	43.54	9.8990
3	Nitrite,N	2.250	0.747	8.727	15.98	16.04	2.0284
4	Sulfate	2.620	0.930	8.048	19.89	14.80	8.6573
5	Bromide	2.813	0.058	0.859	1.25	1.58	1.6790
6	Nitrate	3.207	0.728	7.896	15.57	14.52	1.9747
7	Chlorate	3.393	0.075	0.893	1.61	1.64	1.9501
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.403	0.064	0.196	1.36	0.36	n.a.
Total:			**4.676**	**54.394**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD4**	*Run Time (min):*	**5.00**
Vial Number:	**GA4**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**4**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:36**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

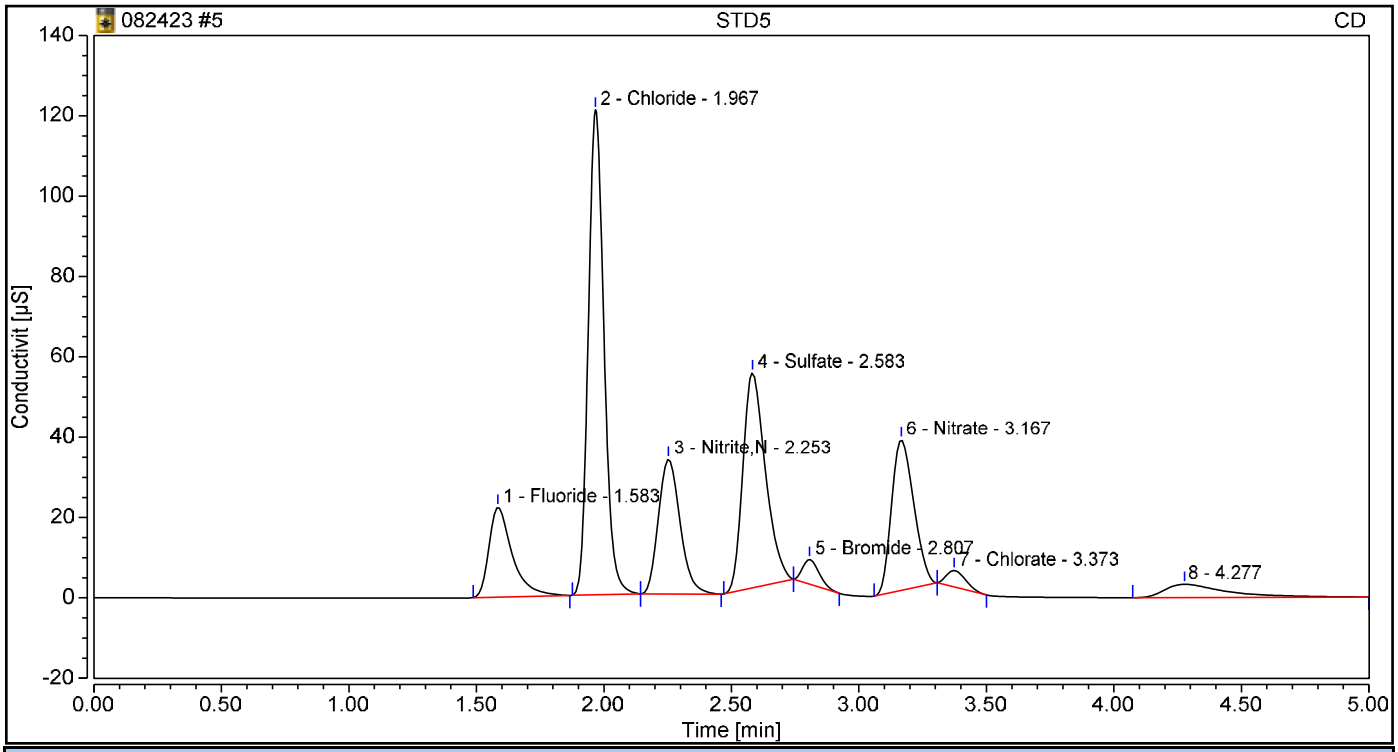
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.583	0.916	8.843	9.23	7.80	4.0419
2	Chloride	1.970	3.451	48.740	34.77	42.99	20.3099
3	Nitrite,N	2.250	1.467	16.280	14.78	14.36	4.0682
4	Sulfate	2.610	2.054	18.903	20.70	16.67	18.8236
5	Bromide	2.813	0.144	2.051	1.45	1.81	3.8846
6	Nitrate	3.193	1.507	16.041	15.19	14.15	4.0589
7	Chlorate	3.387	0.154	1.783	1.55	1.57	4.0320
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.360	0.230	0.747	2.32	0.66	n.a.
Total:			**9.924**	**113.388**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD5**	*Run Time (min):*	**5.00**
Vial Number:	**GA5**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**5**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:42**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

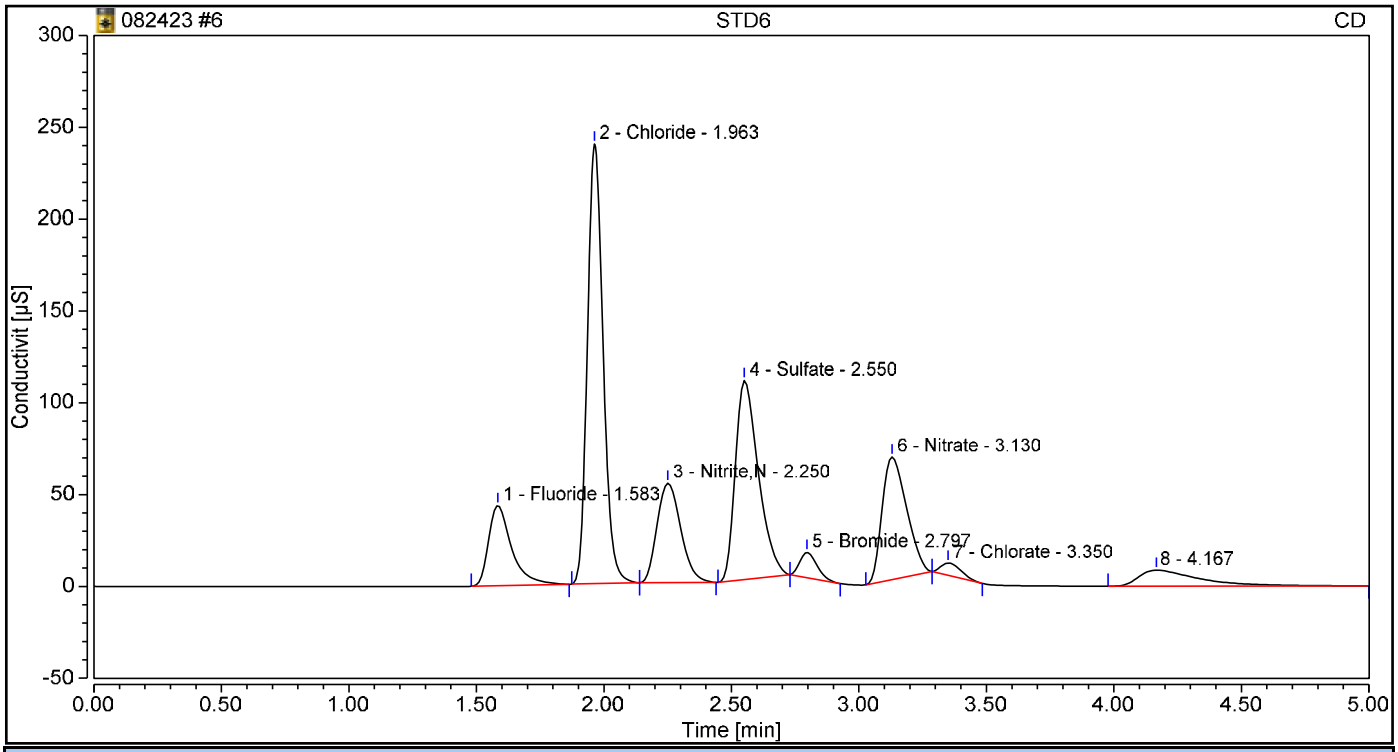
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.583	2.361	22.368	9.35	7.96	10.3121
2	Chloride	1.967	8.574	120.681	33.96	42.93	50.1891
3	Nitrite,N	2.253	3.298	33.531	13.06	11.93	9.8235
4	Sulfate	2.583	5.477	53.523	21.70	19.04	49.7821
5	Bromide	2.807	0.462	6.145	1.83	2.19	10.4730
6	Nitrate	3.167	3.777	37.501	14.96	13.34	10.1285
7	Chlorate	3.373	0.362	4.070	1.43	1.45	10.0896
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.277	0.935	3.315	3.70	1.18	n.a.
Total:			**25.246**	**281.135**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**STD6**	*Run Time (min):*	**5.00**
Vial Number:	**GA6**	*Injection Volume:*	**5.00**
Injection Type:	**Calibration Standard**	*Channel:*	**CD**
Calibration Level:	**6**	*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:48**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

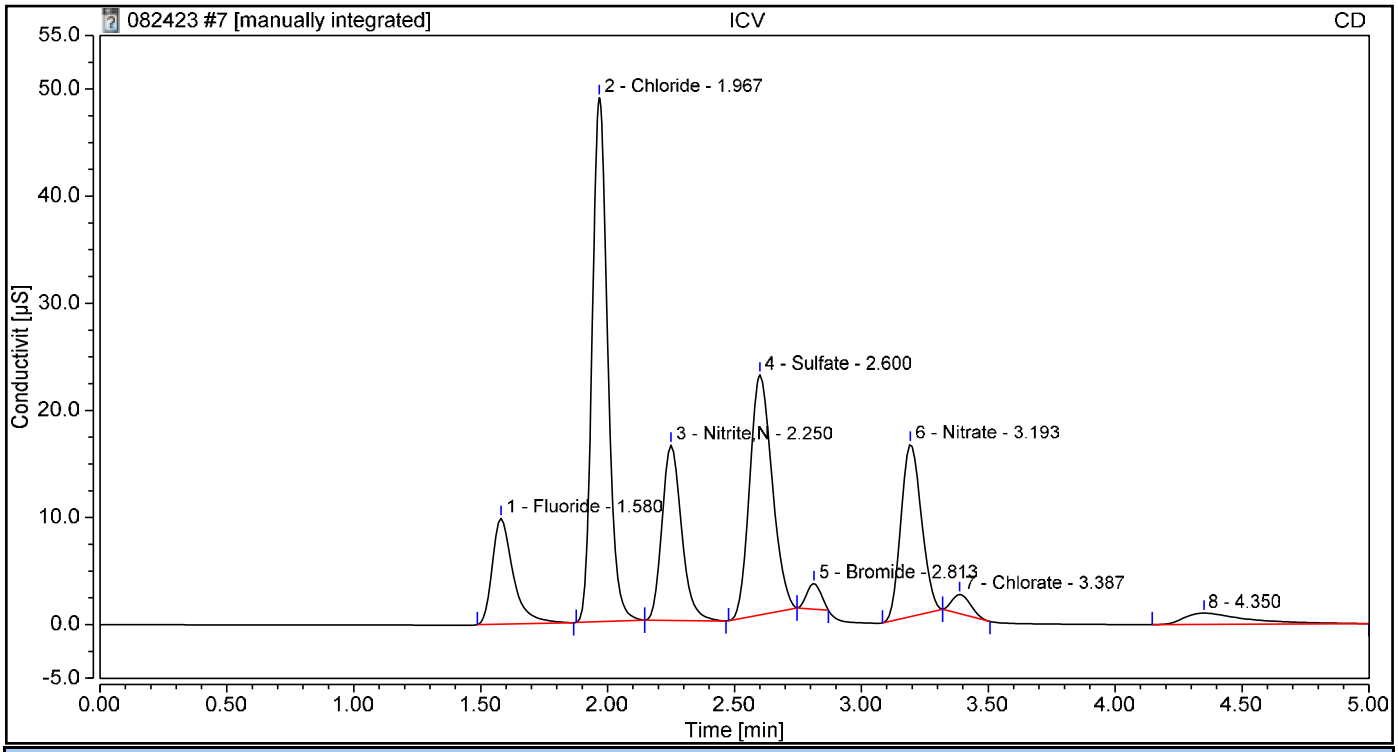
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.583	4.562	43.755	9.07	8.08	19.8533
2	Chloride	1.963	17.060	239.468	33.91	44.21	99.6814
3	Nitrite,N	2.250	5.833	54.192	11.60	10.00	20.0997
4	Sulfate	2.550	11.325	108.374	22.51	20.01	102.6704
5	Bromide	2.797	1.075	13.716	2.14	2.53	19.8561
6	Nitrate	3.130	7.410	66.773	14.73	12.33	19.8438
7	Chlorate	3.350	0.631	6.708	1.25	1.24	19.9371
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.167	2.410	8.683	4.79	1.60	n.a.
Total:			**50.304**	**541.669**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICV**	*Run Time (min):*	**5.00**
Vial Number:	**GA7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 09:59**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

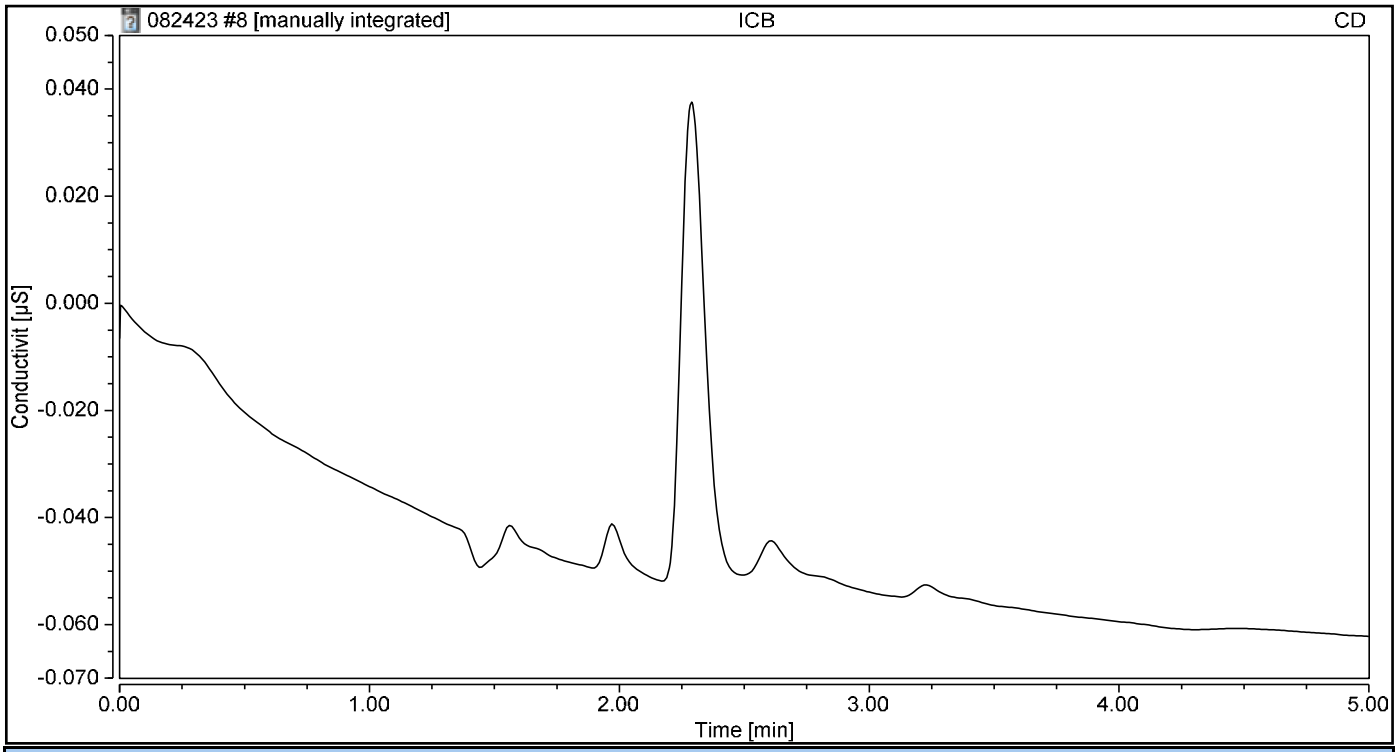
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.580	0.937	9.873	9.13	8.30	4.1371
2	Chloride	1.967	3.446	48.919	33.56	41.14	20.2850
3	Nitrite,N	2.250	1.465	16.360	14.26	13.76	4.0623
4	Sulfate	2.600	2.294	22.412	22.34	18.85	20.9964
5	Bromide	2.813	0.155	2.393	1.51	2.01	4.1359
6	Nitrate	3.193	1.514	16.091	14.74	13.53	4.0765
7	Chlorate	3.387	0.154	1.793	1.50	1.51	4.0299
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.350	0.305	1.059	2.97	0.89	n.a.
Total:			**10.271**	**118.900**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**ICB**	*Run Time (min):*	**5.00**
Vial Number:	**R5**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**08/Aug/23 10:05**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

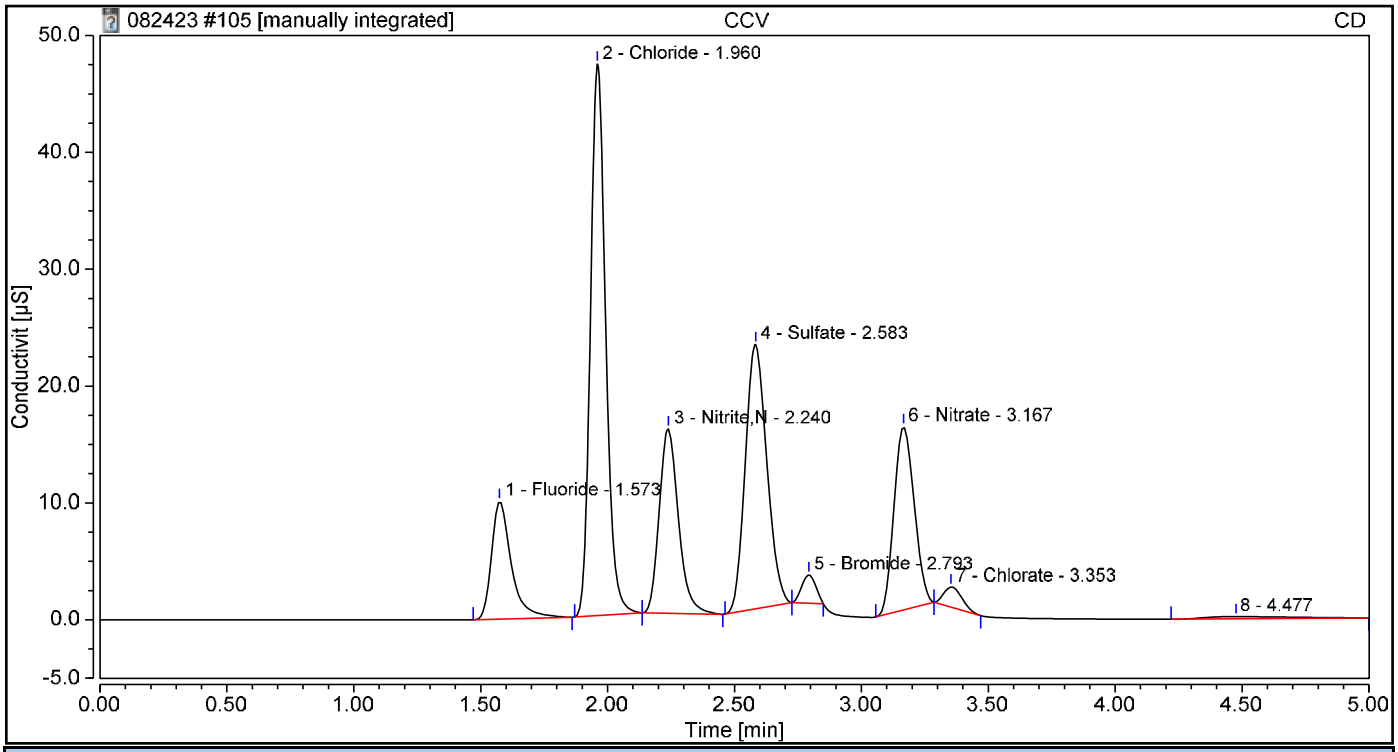
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.000**	**0.000**	**0.00**	**0.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV**	*Run Time (min):*	**5.00**
Vial Number:	**R1**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Aug/23 21:03**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

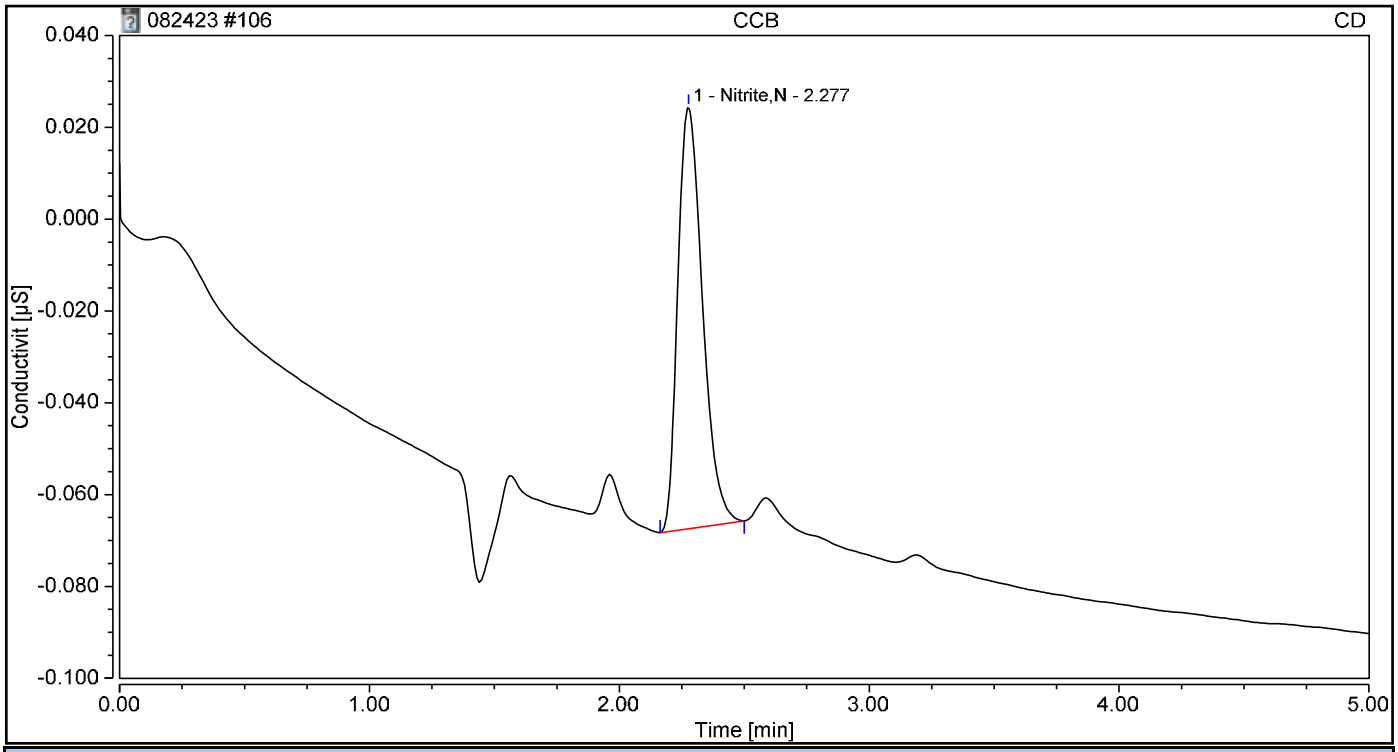
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.573	0.907	10.081	9.44	8.71	4.0044
2	Chloride	1.960	3.270	47.195	34.05	40.78	19.2565
3	Nitrite,N	2.240	1.389	15.787	14.46	13.64	3.8424
4	Sulfate	2.583	2.213	22.610	23.04	19.54	20.2584
5	Bromide	2.793	0.157	2.431	1.64	2.10	4.1994
6	Nitrate	3.167	1.445	15.692	15.05	13.56	3.8934
7	Chlorate	3.353	0.146	1.731	1.52	1.50	3.8039
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.477	0.076	0.190	0.79	0.16	n.a.
Total:			**9.603**	**115.718**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R6**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Aug/23 21:15**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

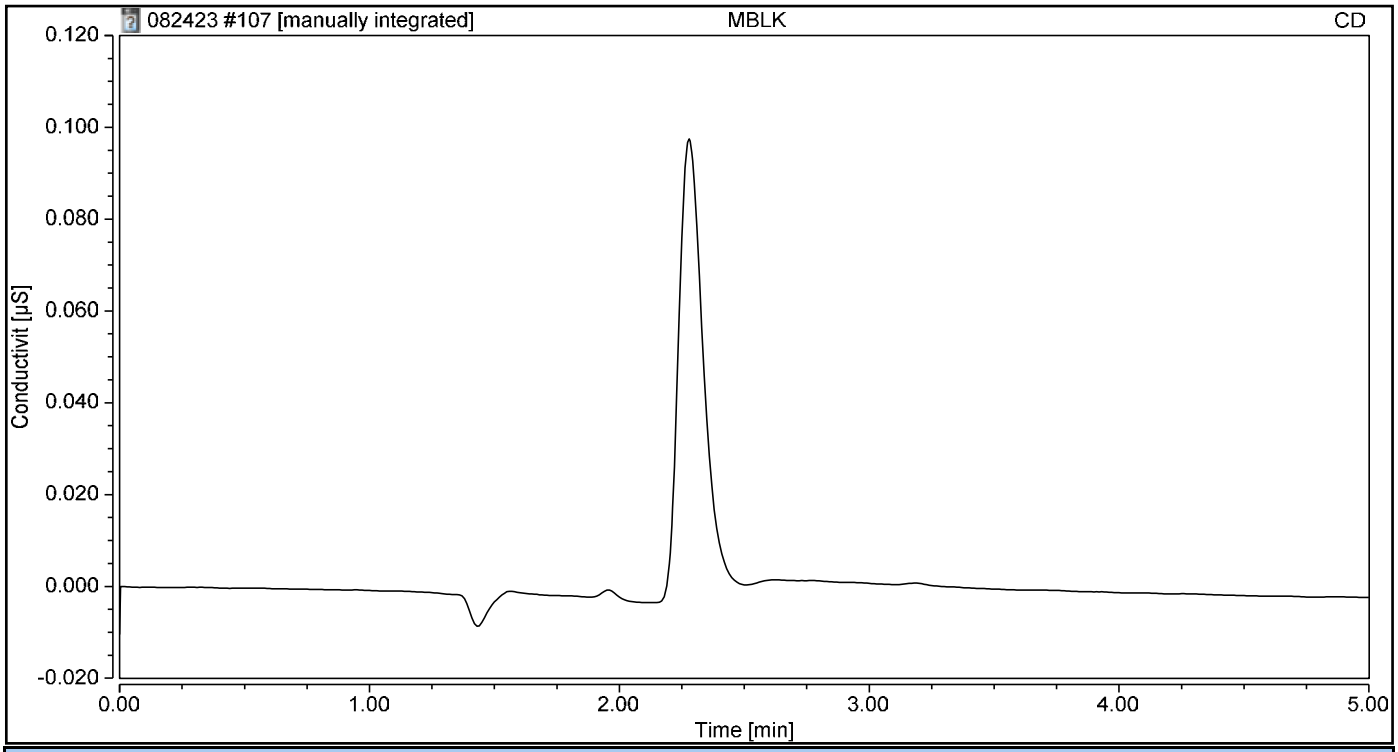
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Nitrite,N	2.277	0.011	0.092	100.00	100.00	0.0411
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.011**	**0.092**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**MBLK**	*Run Time (min):*	**5.00**
Vial Number:	**R5**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Aug/23 21:26**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

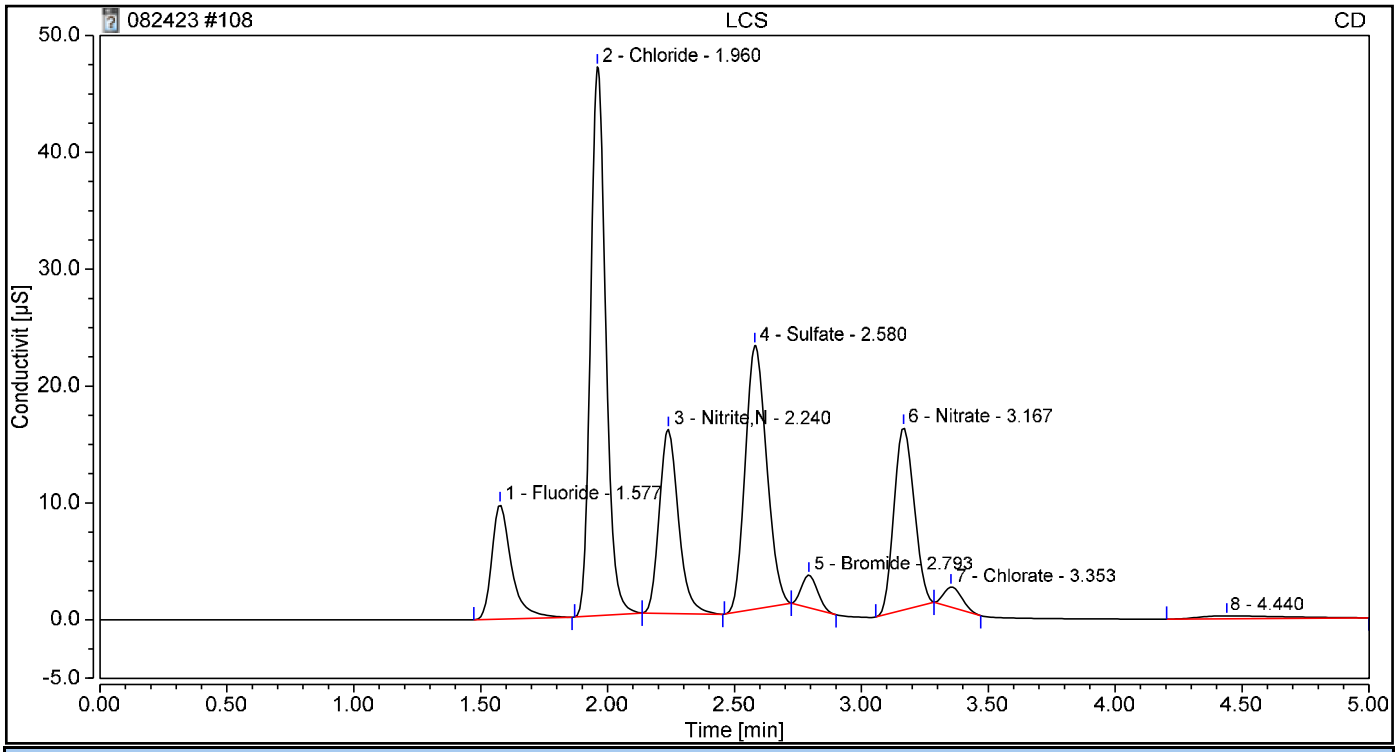
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.000**	**0.000**	**0.00**	**0.00**	

Chromatogram and Results

Injection Details

Injection Name:	**LCS**	*Run Time (min):*	**5.00**
Vial Number:	**R2**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Aug/23 21:32**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

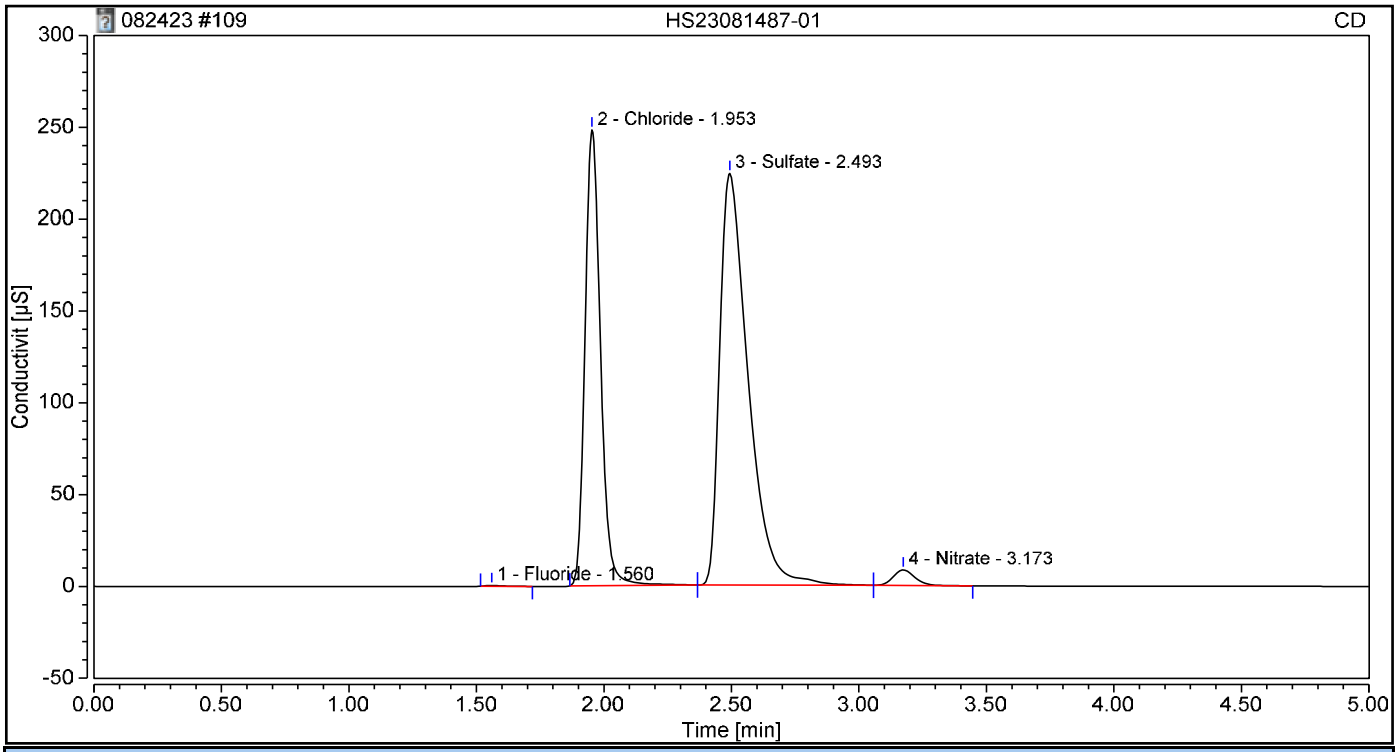
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.577	0.874	9.810	9.10	8.50	3.8637
2	Chloride	1.960	3.254	46.954	33.87	40.66	19.1637
3	Nitrite,N	2.240	1.384	15.737	14.41	13.63	3.8281
4	Sulfate	2.580	2.204	22.550	22.94	19.53	20.1758
5	Bromide	2.793	0.209	2.804	2.17	2.43	5.3901
6	Nitrate	3.167	1.441	15.633	15.00	13.54	3.8805
7	Chlorate	3.353	0.146	1.731	1.52	1.50	3.8084
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		4.440	0.095	0.249	0.99	0.22	n.a.
Total:			**9.607**	**115.468**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS23081487-01**	*Run Time (min):*	**5.00**
Vial Number:	**GE1**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Aug/23 21:38**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

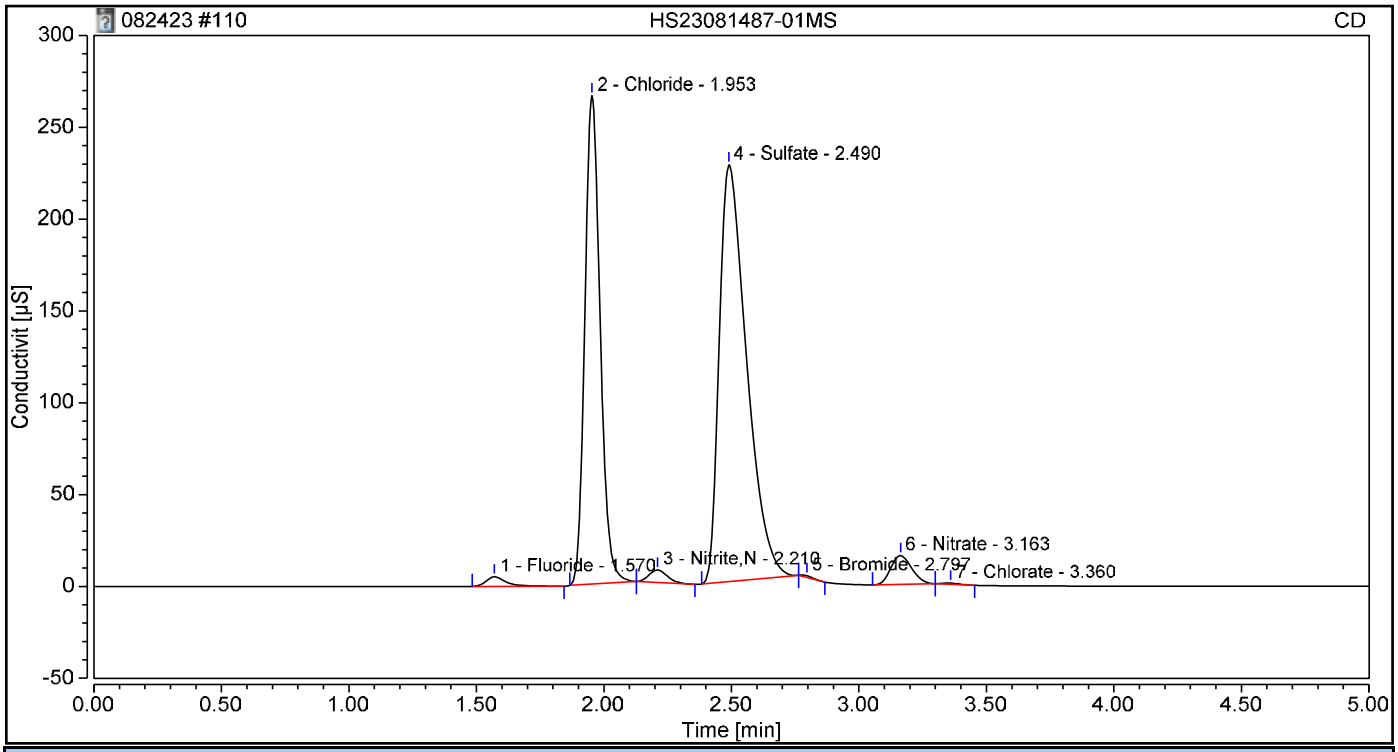
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.560	0.031	0.438	0.06	0.09	0.2001
2	Chloride	1.953	17.482	248.184	37.10	51.56	102.1441
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	2.493	28.794	224.237	61.10	46.59	260.6723
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4	Nitrate	3.173	0.818	8.446	1.73	1.75	2.2141
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**47.124**	**481.305**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS23081487-01MS**	*Run Time (min):*	**5.00**
Vial Number:	**GE2**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Aug/23 21:44**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

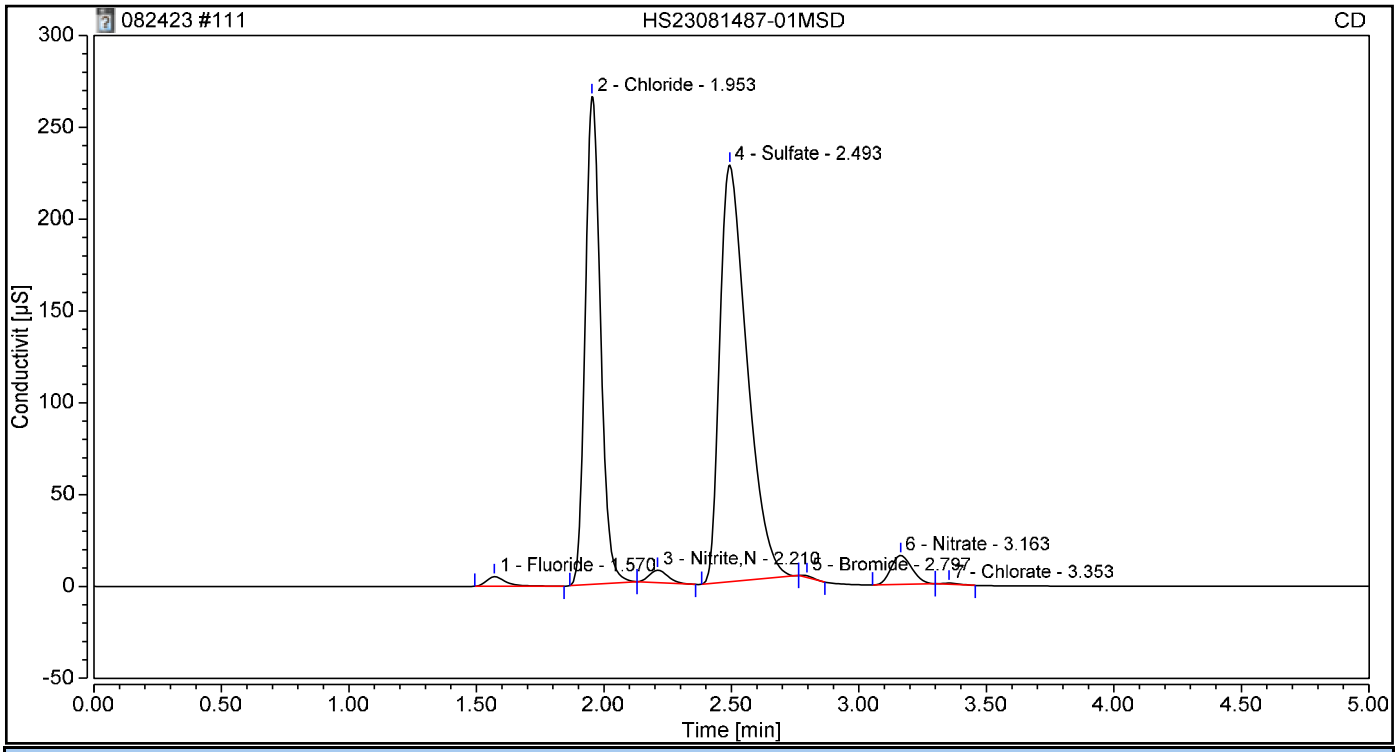
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.570	0.468	5.210	0.95	1.00	2.0988
2	Chloride	1.953	18.472	265.908	37.54	50.92	107.9177
3	Nitrite,N	2.210	0.571	6.797	1.16	1.30	1.5430
4	Sulfate	2.490	28.111	226.905	57.13	43.45	254.4953
5	Bromide	2.797	0.044	0.936	0.09	0.18	1.2948
6	Nitrate	3.163	1.492	15.770	3.03	3.02	4.0166
7	Chlorate	3.360	0.051	0.682	0.10	0.13	1.3212
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**49.208**	**522.207**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS23081487-01MSD**	*Run Time (min):*	**5.00**
Vial Number:	**GE3**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Aug/23 21:49**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

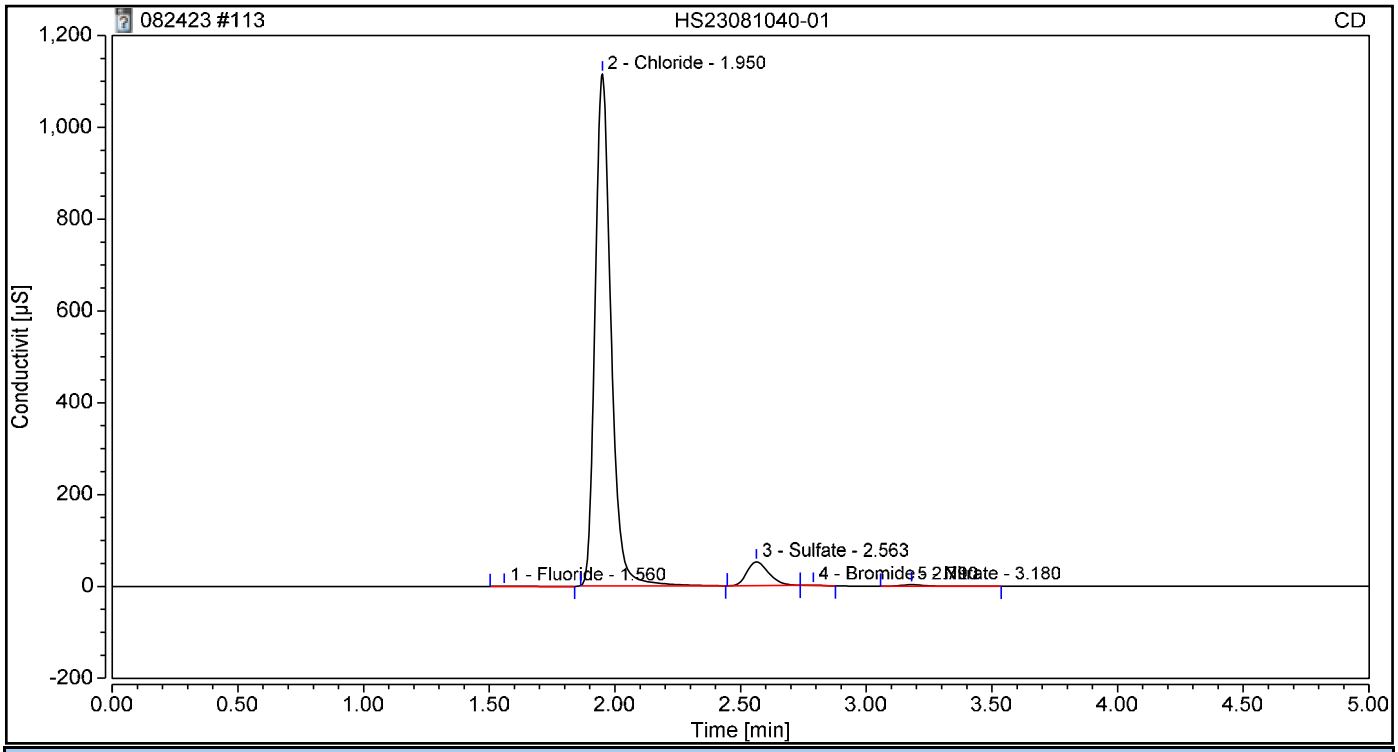
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.570	0.461	5.247	0.94	1.01	2.0670
2	Chloride	1.953	18.479	265.583	37.58	50.88	107.9608
3	Nitrite,N	2.210	0.571	6.781	1.16	1.30	1.5436
4	Sulfate	2.493	28.064	226.916	57.08	43.47	254.0741
5	Bromide	2.797	0.049	0.998	0.10	0.19	1.4235
6	Nitrate	3.163	1.493	15.810	3.04	3.03	4.0191
7	Chlorate	3.353	0.052	0.670	0.11	0.13	1.3431
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**49.168**	**522.004**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS23081040-01**	*Run Time (min):*	**5.00**
Vial Number:	**GE5**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Aug/23 22:01**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

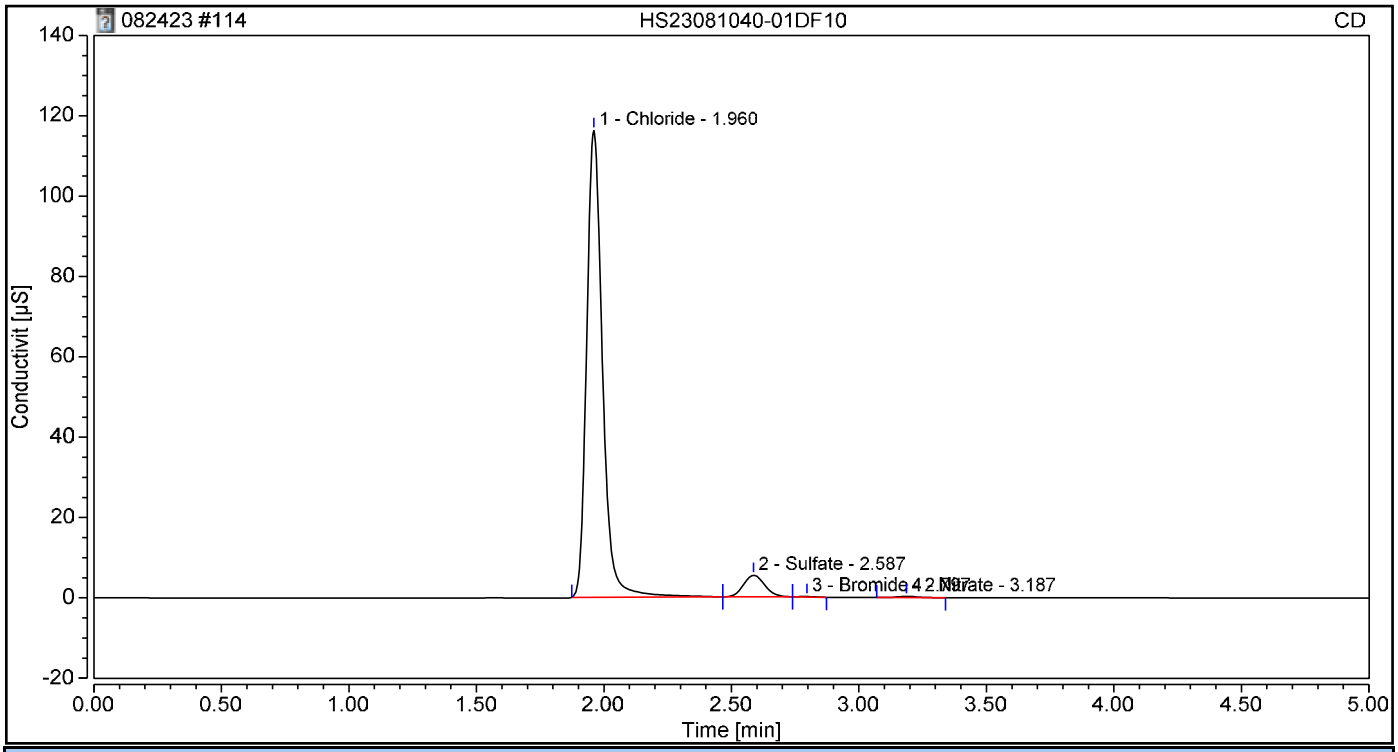
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.560	0.028	0.362	0.03	0.03	0.1881
2	Chloride	1.950	81.657	1114.765	93.55	95.17	476.4351
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	Sulfate	2.563	5.213	51.894	5.97	4.43	47.3948
4	Bromide	2.790	0.072	1.071	0.08	0.09	2.0359
5	Nitrate	3.180	0.319	3.303	0.37	0.28	0.8801
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**87.288**	**1171.396**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**HS23081040-01DF10**	*Run Time (min):*	**5.00**
Vial Number:	**GE6**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Injection Date/Time:	**24/Aug/23 22:07**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

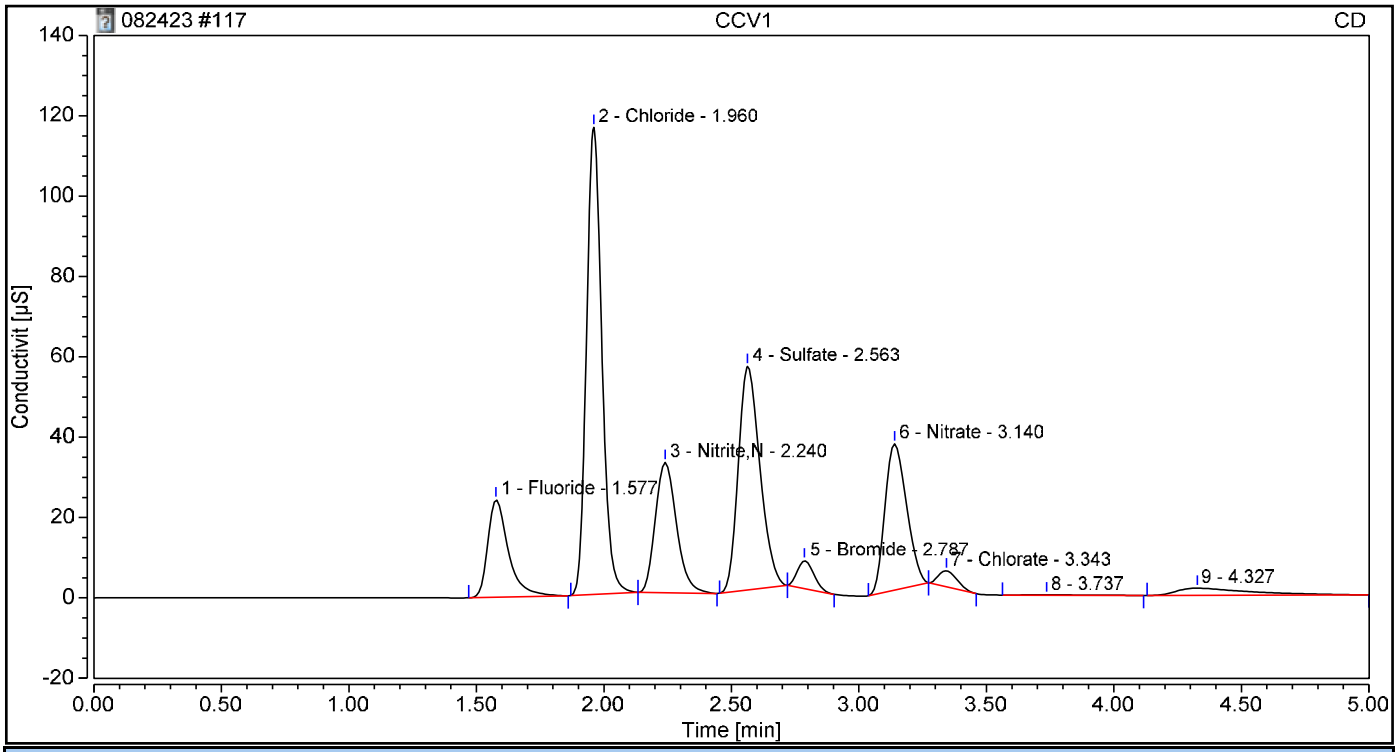
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.960	8.335	116.218	93.86	95.27	487.9764
n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	Sulfate	2.587	0.511	5.368	5.75	4.40	48.6572
3	Bromide	2.797	0.006	0.093	0.07	0.08	1.8334
4	Nitrate	3.187	0.028	0.311	0.32	0.25	1.0278
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**8.880**	**121.990**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCV1**	*Run Time (min):*	**5.00**
Vial Number:	**R3**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Aug/23 22:30**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

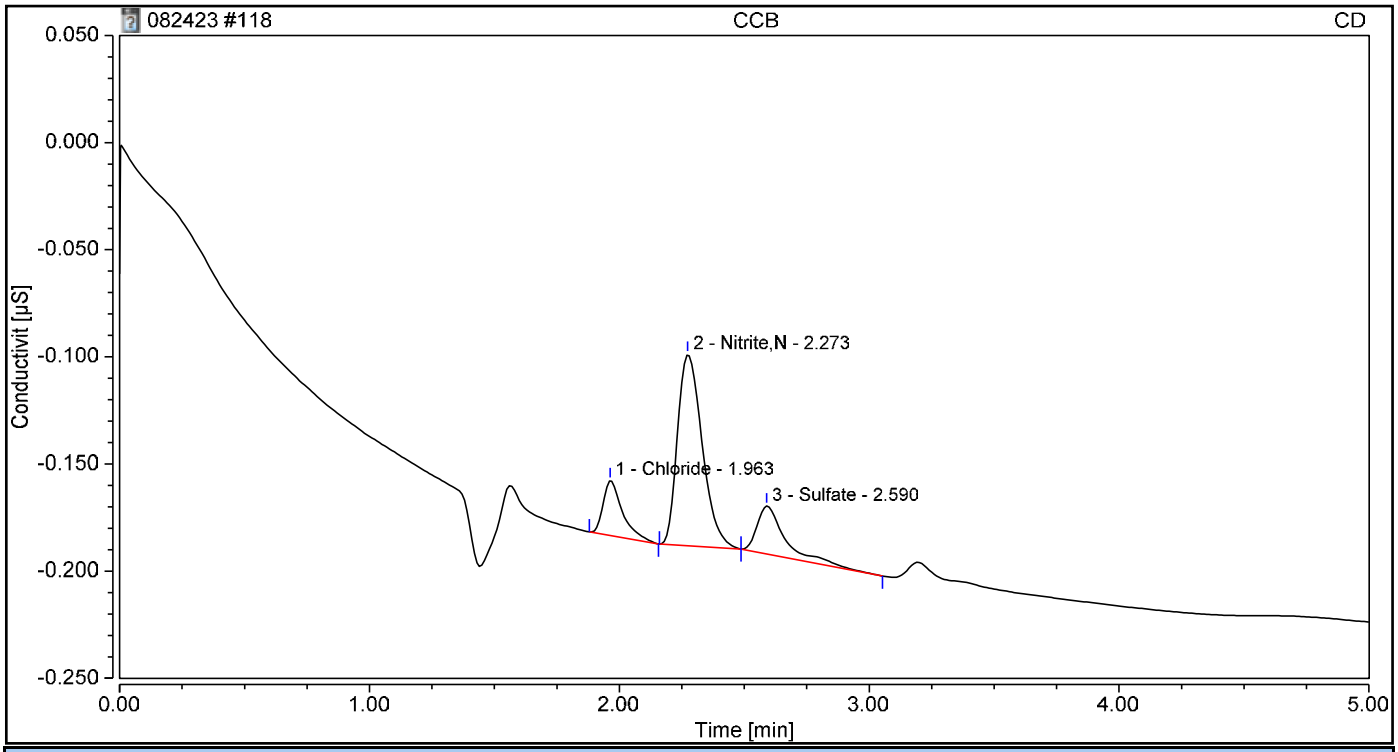
No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
1	Fluoride	1.577	2.274	24.302	9.46	8.74	9.9355
2	Chloride	1.960	8.112	116.301	33.74	41.85	47.4989
3	Nitrite,N	2.240	3.116	32.454	12.96	11.68	9.2085
4	Sulfate	2.563	5.465	55.650	22.73	20.02	49.6698
5	Bromide	2.787	0.528	6.945	2.20	2.50	11.6315
6	Nitrate	3.140	3.580	36.421	14.89	13.11	9.6029
7	Chlorate	3.343	0.343	3.995	1.43	1.44	9.4887
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8		3.737	0.018	0.052	0.08	0.02	n.a.
9		4.327	0.605	1.786	2.52	0.64	n.a.
Total:			**24.042**	**277.908**	**100.00**	**100.00**	

Chromatogram and Results

Injection Details

Injection Name:	**CCB**	*Run Time (min):*	**5.00**
Vial Number:	**R7**	*Injection Volume:*	**5.00**
Injection Type:	**Unknown**	*Channel:*	**CD**
Calibration Level:		*Wavelength:*	**n.a.**
Instrument Method:	**Anions Program ISO37mM 150mm short 0.4 Const**	*Bandwidth:*	**n.a.**
Processing Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**24/Aug/23 22:41**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area µS*min	Height µS	Relative Area %	Relative Height %	Amount ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	Chloride	1.963	0.002	0.026	14.87	18.70	0.1980
2	Nitrite,N	2.273	0.010	0.089	66.19	65.03	0.0404
3	Sulfate	2.590	0.003	0.022	18.93	16.26	0.2713
n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			**0.015**	**0.137**	**100.00**	**100.00**	

HS23081040 Wetchem COD

ALS WO# HS23081040

01251031

ALS Laboratory Group — **COD Analysis** — **Logbook# 32124**

Method: HACH 8000 / EPA 410.4	Date: 8-24-23	Low COD–420nm	Analyst:
SOP #: HS-WC025	Time: 14:30	High COD–620nm	TH

WO # / SX #	Bottle #	Init Sample Vol (mL)	Prep Final Volume (mL)	Dilution Factor	Init Conc. (mg/L)	Final Conc. (mg/L)	Comments
CCV50		2	2	1	49		
MBLK					0		
LCS					99		
HS2308105B-01					13		
-01MS					61		
-01MSD					60		
HS2308065D-01					86		
HS2308068F-01					45		
HS2308117Z-01					85		
HS2308118B-01					52		
CCV100		2	2	1	98		
HS2308073J-01				5	120		
HS2308073Z-01				1	67		
HS2308074H-01					91		
HS2308116I-01					59		
HS2308104D-01					16		
HS2308107G-01					100		
HS2308089F-01					90		
HS2308134Z-01					88		
CCV50		2	2	1	49		
HS2308084H-01				2	79		
-02				1	51		
-03					65		
-04					53		
-05					86		
-06					52		
-07					54		
CCV100		2	2	1	98		

LCS ID #	CCV1 ID#	CCV2 ID#	Vial Lot#:	Reviewed By:
LCS Prep Date:	**Prep Date:**	**Prep Date:**	**MS ID:**	***Pipette ID:***
Digestor ID: DRB 200	**Digestor *Temp (°C):***	**Date/Time In Digestor:**	**Date/Time Off Digestor:**	**Batch ID:**

HS23081040 Wetchem O&G

ALS WO# HS23081040

ALS Laboratory Group Confidential

08252023 O&G WATER

Method: O&G, HEM by EPA 1664A (SOP HS-WC036, Current Revision)

Analyst:	MC
Review By:	
Batch ID:	
LCS/MS Spike ID:	3100608004
Hexane ID:	3100307907
Filter Lot:	3100607619
Silica Gel:	

Methanol ID:	3100307905
1:1 HCl ID:	3100607013
Na2SO4 Cartridge ID:	3100607705
Thermo HotBlock Setting (°C):	
pH Paper ID:	3100607223
Pipette ID	

Temp Ranges (°C)
Pan Drying: 105-115
Hex Evap: 68-72
HotBlock: 35-50

	grams	mg	Accept.
Init 2.0 mg wt (1.8mg to 2.2mg required):	0.0020	2.0	Yes
Init 1000 mg wt (995mg to 1005mg required):	1.0000	1000	Yes
Final 2.0 mg wt (1.8mg to 2.2mg required):	0.0020	2.0	Yes
Final 1000 mg wt (995mg to 1005mg required):	1.0000	1000	Yes

Pan	Temp Deg C	Actual Deg C	Date	Time
Pan 1st In:	105-115	105	08/25/2023	8:00:00 AM
Pan 1st Out:	105-115	105	08/25/2023	8:10:00 AM
Pan 2nd In:	105-115	105	08/25/2023	9:00:00 AM
Pan 2nd Out:	105-115	105	08/25/2023	9:10:00 AM
Pan 3rd In:	105-115			
Pan 3rd Out:	105-115			
Oven ID:				
Balance ID:				

O&G	Temp Deg C	Actual Deg C	Date	Time
O&G 1st In:	68-72	72	08/25/2023	11:00:00 AM
O&G 1st Out:	68-72	72	08/25/2023	11:10:00 AM
O&G 2nd In:	68-72	72	08/25/2023	12:00:00 PM
O&G 2nd Out:	68-72	72	08/25/2023	12:10:00 PM
O&G 3rd In:	68-72			
O&G 3rd Out:	68-72			
Oven ID:				
Balance ID:				

Criteria Change is <0.0005 g

Criteria Change is <4%

$$\text{O \& G (HEM), mg/L} = \frac{\text{Weight}_{\text{(HEM, mg)}}}{\text{Volume}_{\text{(Sample Extracted, L)}}}$$

Criteria Change is <0.0005 g

Criteria Change is <4%

Dish ID	Work Order #	Bottle Number	SGT	Sample Type	pH Check	1st Dry Pan Wt (g)	2nd Dry Pan Wt (g)	3rd Dry Pan Wt (g)	Passes Difference Criteria	Passes % Weight Criteria	Pan Weight (g)	Sample Vol (mL)	70 deg C O&G 1st dry Wt (g)	70 deg C O&G 2nd dry Wt (g)	70 deg C O&G 3rd dry Wt (g)	Passes Difference Criteria	Passes % Weight Criteria	O&G Weight (g)	O&G (mg/L)
1	WMBLK-08252023	1 of 2		MBLK	<2	4.0762	4.0762		Yes	Yes	4.0762	1000	4.0763	4.0763		Yes	Yes	0.0001	0.1
2	LCS-08252023	1 of 2		LCS	<2	4.1105	4.1103		Yes	Yes	4.1103	1000	4.1550	4.1550		Yes	Yes	0.0447	44.7
3	LCSD-08252023	1 of 2		LCSD	<2	4.1365	4.1364		Yes	Yes	4.1364	1000	4.1800	4.1800		Yes	Yes	0.0436	43.6
4	HS23081269-01MS	1 of 2		MS	<2	4.1468	4.1468		Yes	Yes	4.1468	1000	4.1893	4.1898		Yes	Yes	0.0430	43.0
5	HS23081269-01	1 of 2		Sample	<2	4.1347	4.1347		Yes	Yes	4.1347	255	4.1350	4.1350		Yes	Yes	0.0003	1.2
6	HS23081495-01	1 of 2		Sample	<2	4.0445	4.0445		Yes	Yes	4.0445	235	4.0554	4.0554		Yes	Yes	0.0109	46.4
7	HS23081495-02	1 of 2		Sample	<2	4.2134	4.2134		Yes	Yes	4.2134	235	4.2149	4.2149		Yes	Yes	0.0015	6.4
8	HS23081495-03	1 of 2		Sample	<2	4.1645	4.1644		Yes	Yes	4.1644	240	4.1649	4.1650		Yes	Yes	0.0006	2.5
9	HS23081495-04	1 of 2		Sample	<2	5.8408	5.8407		Yes	Yes	5.8407	235	5.8409	5.8409		Yes	Yes	0.0002	0.9
10	HS23081495-05	1 of 2		Sample	<2	4.1433	4.1434		Yes	Yes	4.1434	235	4.1439	4.1437		Yes	Yes	0.0003	1.3
11	HS23081495-06	1 of 2		Sample	<2	4.2036	4.2037		Yes	Yes	4.2037	235	4.2035	4.2038		Yes	Yes	0.0001	0.4
12	HS23081495-07	1 of 2		Sample	<2	4.1457	4.1457		Yes	Yes	4.1457	235	4.1462	4.1460		Yes	Yes	0.0003	1.3
13	HS23080849-05	1 of 2		Sample	<2	4.1578	4.1581		Yes	Yes	4.1581	230	4.1584	4.1584		Yes	Yes	0.0003	1.3
14	HS23080849-06	1 of 2		Sample	<2	5.7819	5.7819		Yes	Yes	5.7819	225	5.7821	5.7821		Yes	Yes	0.0002	0.9
15	HS23080849-07	1 of 2		Sample	<2	4.1611	4.1611		Yes	Yes	4.1611	205	4.1620	4.1619		Yes	Yes	0.0008	3.9
16	HS23080953-03	1 of 2		Sample	<2	5.8736	5.8736		Yes	Yes	5.8736	275	5.8738	5.8738		Yes	Yes	0.0002	0.7
17	HS23081035-02	1 of 2		Sample	<2	4.2647	4.2646		Yes	Yes	4.2646	250	4.2646	4.2649		Yes	Yes	0.0003	1.2
18	HS23081035-04	1 of 2		Sample	<2	4.2102	4.2102		Yes	Yes	4.2102	275	4.2105	4.2105		Yes	Yes	0.0003	1.1
19	HS23081036-07	1 of 2		Sample	<2	4.0740	4.0740		Yes	Yes	4.0740	275	4.0736	4.0740		Yes	Yes	0.0000	0.0
20	HS23081040-01	1 of 2		Sample	<2	4.2116	4.2116		Yes	Yes	4.2116	1000	4.2118	4.2117		Yes	Yes	0.0001	0.1
21	HS23081076-01	1 of 2		Sample	<2	4.1247	4.1247		Yes	Yes	4.1247	1000	4.1246	4.1246		Yes	Yes	-0.0001	-0.1
22	HS23081257-01	1 of 2		Sample	<2	4.2041	4.2040		Yes	Yes	4.2040	150	4.2043	4.2044		Yes	Yes	0.0004	2.7
23	HS23081293-01	1 of 2		Sample	<2	5.7912	5.7912		Yes	Yes	5.7912	245	5.7913	5.7914		Yes	Yes	0.0002	0.8
24	HS23081294-01	1 of 2		Sample	<2	4.2127	4.2127		Yes	Yes	4.2127	255	4.2127	4.2127		Yes	Yes	0.0000	0.0

HS23081040-E2300746 Perchlorate Report
Level IV

ALS WO# HS23081040

August 21, 2023 Service Request No:E2300746

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: Perchlorates

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory August 17, 2023
For your reference, these analyses have been assigned our service request number **E2300746.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300745
Project:	Perchlorates	**Date Received:**	08/17/23
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 II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 08/17/23

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300403: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) sample was analyzed and reported in lieu of a MS/MSD for this extraction batch.

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:**E2300746
Project: Perchlorates

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300746-001	LH18/24-SP140	8/16/2023	1300

Service Request Summary

Folder #: **E2300746**
Client Name: ALS Environmental - US
Project Name: Perchlorates
Project Number:

Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: TWOODS
Date Received: 08/17/23
Internal Due Date: 9/1/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300746-001	LH18/24-SP140	Water	08/16/23 1300	IV

Service Request Summary

Folder #:	**E2300746**
Client Name:	ALS Environmental - US
Project Name:	Perchlorates
Project Number:	

Report To:	Bernadette Fini ALS Laboratory Group 10450 Stancliff Road Houston, TX 77099-4338 USA
Phone Number:	281-530-5656
Cell Number:	
Fax Number:	281-530-5887
E-mail:	bernadette.fini@alsglobal.com

Project Chemist:	James Guin
Originating Lab:	HOUSTON
Logged By:	TWOODS
Date Received:	08/17/23
Internal Due Date:	9/1/2023
QAP:	LAB QAP
Qualifier Set:	Lab Standard
Formset:	Lab Standard
Merged?:	Y
Report to MDL?:	Y
P.O. Number:	
EDD:	No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-AirArch 1

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
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L22-90	3/31/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
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	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-22	11/14/2023

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

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Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Colorado **COC ID:** 22747

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS23081040
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23081040-01**	**LH18/24-SP140_081623**	**Water**	**16 Aug 2023 13:00**
	SUB_Perch-6850			28 Aug 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

E2300746
ALS Laboratory Group
Perchlorates
5

Relinquished By: NR Date/Time:

Received By: Date/Time: 8.17.23 1245

Cooler ID(s): Temperature(s):

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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#: 424977 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 8/17/23 13:11

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300744-001	LH18/24-SP650_081623_Between IX	.01	6850/ClO4 DOD			Water	10mL	
2	E2300744-002	LH18/24-SP650_081623_AIX	.01	6850/ClO4 DOD			Water	10mL	
3	E2300744-003	LH18/24-SP650_081623_BIX	.01	6850/ClO4 DOD			Water	10mL	
4	E2300745-001	LH18/24-SP650	.01	6850/ClO4 DOD			Water	10mL	
5	E2300746-001	LH18/24-SP140	.01	6850/ClO4 DOD			Water	10mL	
6	EQ2300403-01	MB		6850/ClO4			Liquid	10mL	
7	EQ2300403-02	LCS		6850/ClO4			Liquid	10mL	
8	EQ2300403-03	DLCS		6850/ClO4			Liquid	10mL	
9	K2309094-001	LGAC-INF-081423	.01	6850/ClO4			Water	10mL	
10	K2309094-002	LGAC-INT1-081423	.01	6850/ClO4			Water	10mL	
11	K2309094-003	LGAC-INT2-081423	.01	6850/ClO4			Water	10mL	
12	R2307250-005	2308071435B BLM-32-571	.01	6850/ClO4			Water	10mL	
13	R2307250-011	2308081426B BLM-32-632	.01	6850/ClO4			Water	10mL	
14	R2307325-004	2308100948A PL-12-570	.01	6850/ClO4			Water	10mL	
15	R2307325-009	2308101419A PL-12-800	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 230342 Logbook Ref: Perchlorate (1st Source) Expires On: 03/07/2024

EQ2300403-02	1.00µL	EQ2300403-02	1.00µL	EQ2300403-03	1.00µL	EQ2300403-03	1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 230372 Logbook Ref: Perchlorate Internal Standard Expires On: 04/30/2024

E2300744-001	100.00µL	E2300744-002	100.00µL	E2300744-003	100.00µL	E2300745-001	100.00µL	E2300746-001	100.00µL	EQ2300403-01	100.00µL
EQ2300403-01	100.00µL	EQ2300403-02	100.00µL	EQ2300403-02	100.00µL	EQ2300403-03	100.00µL	EQ2300403-03	100.00µL	K2309094-001	100.00µL
K2309094-002	100.00µL	K2309094-003	100.00µL	R2307250-005	100.00µL	R2307250-011	100.00µL	R2307325-004	100.00µL	R2307325-009	100.00µL

Preparation Materials

Water HPLC Grade	HPLC water 5/18/23CG (229315)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 Luer-Lok Syringes	Luer-Lok Syringes (228117)
6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)				

Preparation Steps

Step: Preparation
Started: 8/17/23 13:11
Finished: 8/18/23 08:38
By: XMI
Comments

Preparation Information Benchsheet

Prep Run#: 424977
Team: Semivoa GCMS/XMI

Prep WorkFlow: GenExt28Day
Prep Method: Method

Status: Prepped
Prep Date/Time: 8/17/23 13:11

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300746
Project:	Perchlorates	**Date Collected:**	8/16/23 1300
Sample Matrix:	Water	**Date Received:**	8/17/23
Sample Name:	LH18/24-SP140	**Units:**	µg/L
Lab Code:	E2300746-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**19200**		200	100	50.0	2000	8/17/23	8/18/23 11:50	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300746
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300403-01	**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	8/17/23	8/18/23 09:00	424977	814330	

Accuracy & Precision

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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
Project: Perchlorates
Sample Matrix: Water

Service Request: E2300746
Date Analyzed: 8/18/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 424977

	Lab Control Sample EQ2300403-02			Duplicate Lab Control Sample EQ2300403-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.114	0.100	114	0.102	0.100	102	84 - 119	11	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300746
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300403-02	**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	**0.114**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:06	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300746
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300403-03	**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	**0.102**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:11	424977	814330	

Initial Calibration

ALS Environmental - Houston HRMS
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www.alsglobal.com

20230802

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: KN

ICAL Date: 8/2/2023
Cal. Std. xp: 03/07/2024
ICAL ID: EC2300012

Mobile Phases : A:20mM ammonium acetate in water 230388 **B:**Acetonitrile 229152

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	IB		2230802-001	Perchlorate6850c.lcm	1x		8/2/2023 13:05
2	IB		2230802-002	Perchlorate6850c.lcm	1x		8/2/2023 13:11
3	Perchlorate ICAL 1		2230802-003	Perchlorate6850c.lcm	1x	230373	8/2/2023 13:17
4	Perchlorate ICAL 2		2230802-004	Perchlorate6850c.lcm	1x	230375	8/2/2023 13:23
5	Perchlorate ICAL 3		2230802-005	Perchlorate6850c.lcm	1x	230376	8/2/2023 13:28
6	Perchlorate ICAL 4		2230802-006	Perchlorate6850c.lcm	1x	230377	8/2/2023 13:34
7	Perchlorate ICAL 5		2230802-007	Perchlorate6850c.lcm	1x	230378	8/2/2023 13:39
8	Perchlorate ICAL 6		2230802-008	Perchlorate6850c.lcm	1x	230379	8/2/2023 13:45
9	Perchlorate ICAL 7		2230802-009	Perchlorate6850c.lcm	1x	230380	8/2/2023 13:50
10	Perchlorate ICAL 8		2230802-010	Perchlorate6850c.lcm	1x	230381	8/2/2023 13:56
11	Perchlorate ICAL 9		2230802-011	Perchlorate6850c.lcm	1x	230382	8/2/2023 14:02
12	Perchlorate ICAL 10		2230802-012	Perchlorate6850c.lcm	1x	230383	8/2/2023 14:07
13	PerchlorateICV		2230802-013	Perchlorate6850c.lcm	1x	230385	8/2/2023 14:19

Initial Calibration - Detailed Report

Calibration ID: EC2300012 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2300012-01	Perchlorate ICAL 1	2230802-003	08/02/2023 13:17
02	EC2300012-02	Perchlorate ICAL 2	2230802-004	08/02/2023 13:23
03	EC2300012-03	Perchlorate ICAL 3	2230802-005	08/02/2023 13:28
04	EC2300012-04	Perchlorate ICAL 4	2230802-006	08/02/2023 13:34
05	EC2300012-05	Perchlorate ICAL 5	2230802-007	08/02/2023 13:39
06	EC2300012-06	Perchlorate ICAL 6	2230802-008	08/02/2023 13:45
07	EC2300012-07	Perchlorate ICAL 7	2230802-009	08/02/2023 13:50
08	EC2300012-08	Perchlorate ICAL 8	2230802-010	08/02/2023 13:56
09	EC2300012-09	Perchlorate ICAL 9	2230802-011	08/02/2023 14:02
10	EC2300012-10	Perchlorate ICAL 10	2230802-012	08/02/2023 14:07

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 2.086** **Average RF = 0.1475**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1428	02	0.5000	0.1421	03	0.7000	0.1457	04	1.0000	0.149
05	2.0000	0.1515	06	5.0000	0.1475	07	10.0000	0.1503	08	20.0000	0.1477
09	30.0000	0.1485	10	50.0000	0.1496						

Analyte

Perchlorate RSE = 2.09

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0968	-3.2	02	0.5000	0.482	-3.6	03	0.7000	0.692	-1.2
04	1.0000	1.01	1.0	05	2.0000	2.05	2.7	06	5.0000	5.00	-0.0
07	10.0000	10.2	1.9	08	20.0000	20.0	0.2	09	30.0000	30.2	0.7
10	50.0000	50.7	1.4								

Initial Calibration Verification Summary Report

Calibration ID:	EC2300012	**Instrument ID:**	E-LCMS-01
Datafile ID:	2230802-013	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2300012-11	T	Average RF	10	10.670	ng/mL	6.7	<= 15

Insight Report

Printed at 8/3/2023 9:30:46 AM

Method File: I:\LCMS01\DATA\20230802\20230802ICAL.lcm
Project File: I:\LCMS01\DATA\20230802\no use\20230802ICAL.damlp

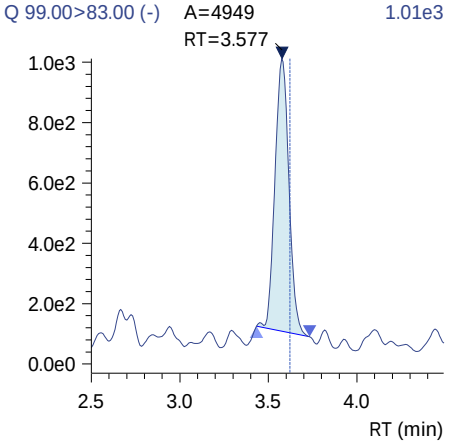
Perchlorate ICAL 1

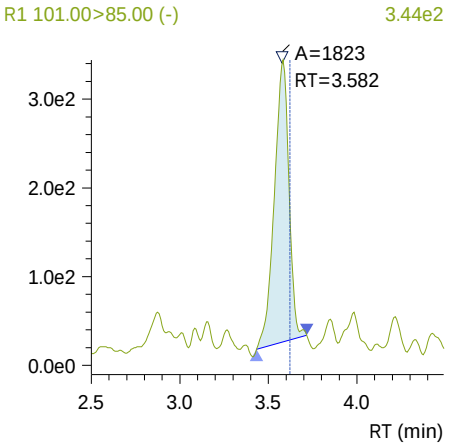
Sample ID: Perchlorate ICAL 1
Date Acquired: 8/2/2023 1:17:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.577	4949	346538	0.0968	ng/mL	101.00 >85.00	36.83	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.572	346538	346538	1.0000	ng/mL	----	----	

Perchlorate

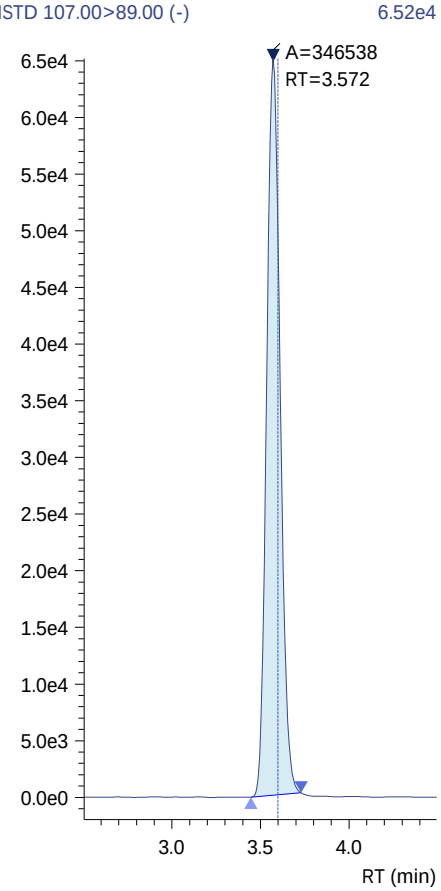
Conc 0.0968
R#1 36.83 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/3/2023 9:30:46 AM

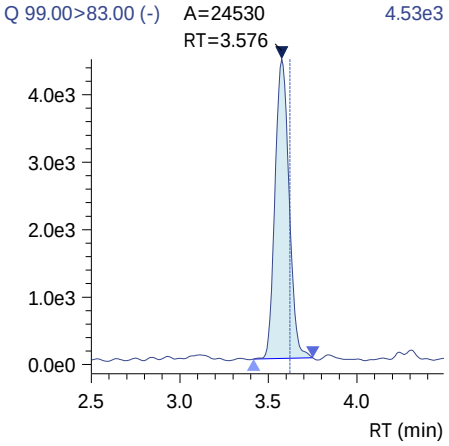
Perchlorate ICAL 2

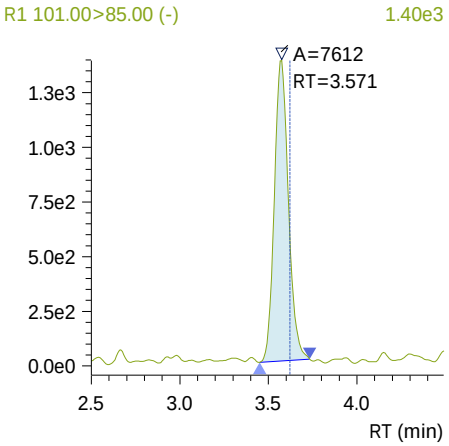
Sample ID: Perchlorate ICAL 2
Date Acquired: 8/2/2023 1:23:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-004.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.576	24530	345149	0.4820	ng/mL	101.00 >85.00	31.03	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.571	345149	345149	1.0000	ng/mL	----	----	

Perchlorate

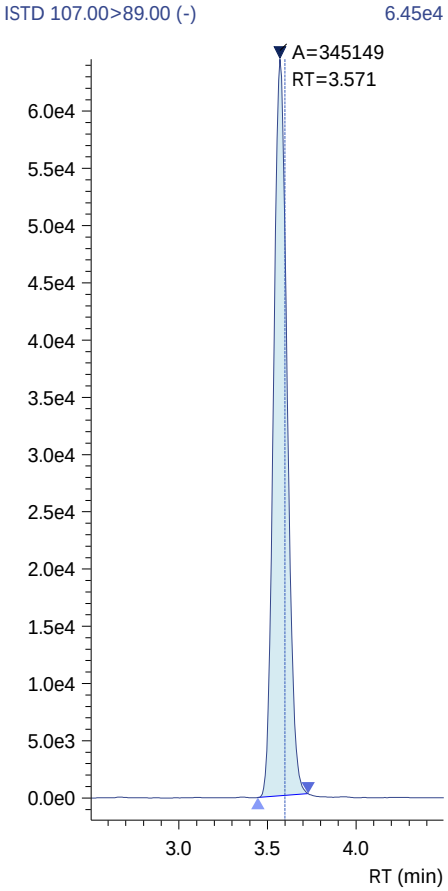
Conc 0.4820
R#1 31.03 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/3/2023 9:30:46 AM

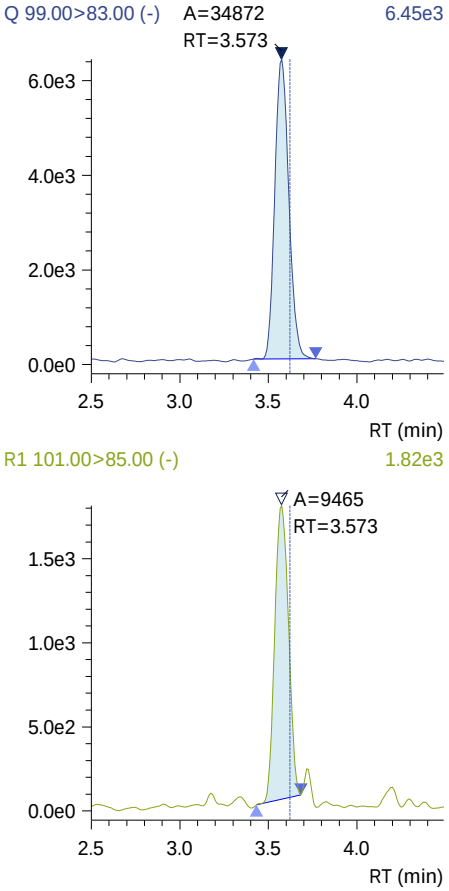
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 8/2/2023 1:28:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-005.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	3.573	34872	341974	0.6915	ng/mL	101.00 >85.00	27.14	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.570	341974	341974	1.0000	ng/mL	----	----	

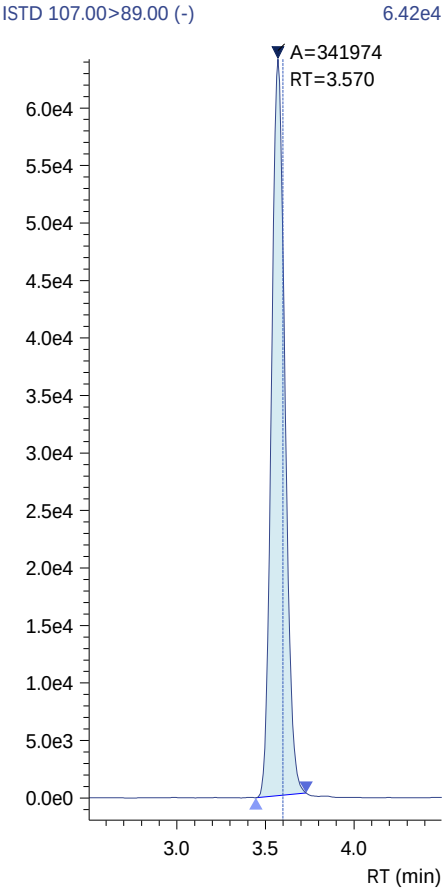
Perchlorate

Conc 0.6915
R#1 27.14 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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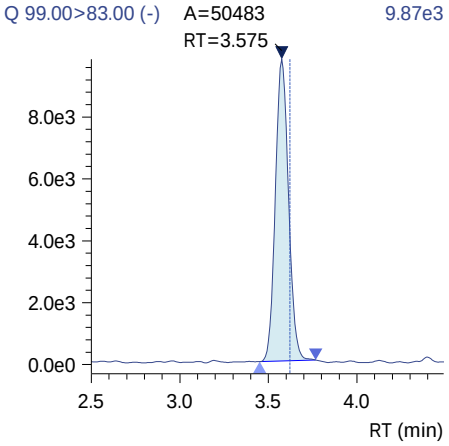
Perchlorate ICAL 4

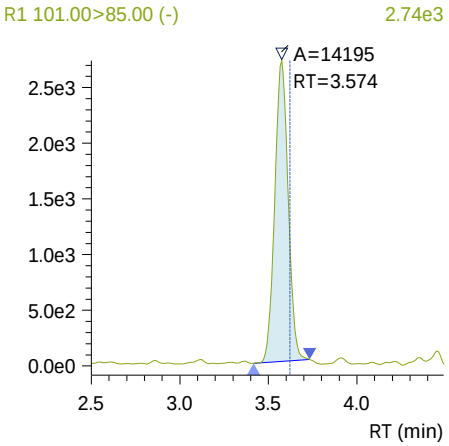
Sample ID: Perchlorate ICAL 4
Date Acquired: 8/2/2023 1:34:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-006.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.575	50483	338838	1.0104	ng/mL	101.00 >85.00	28.12	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.570	338838	338838	1.0000	ng/mL	----	----	

Perchlorate

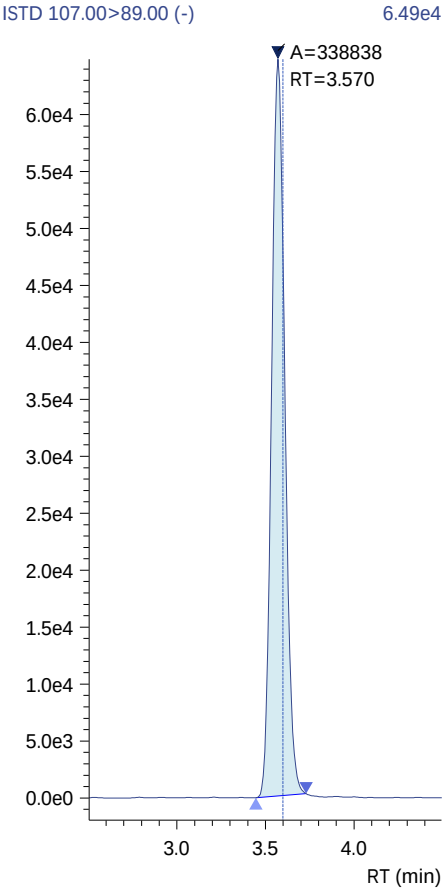
Conc 1.0104
R#1 28.12 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/3/2023 9:30:46 AM

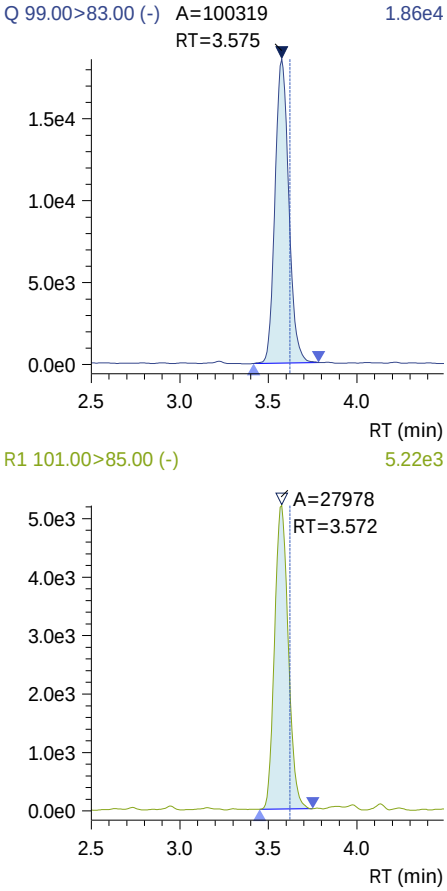
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 8/2/2023 1:39:51 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-007.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	3.575	100319	331124	2.0545	ng/mL	101.00 >85.00	27.89	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.570	331124	331124	1.0000	ng/mL	----	----	

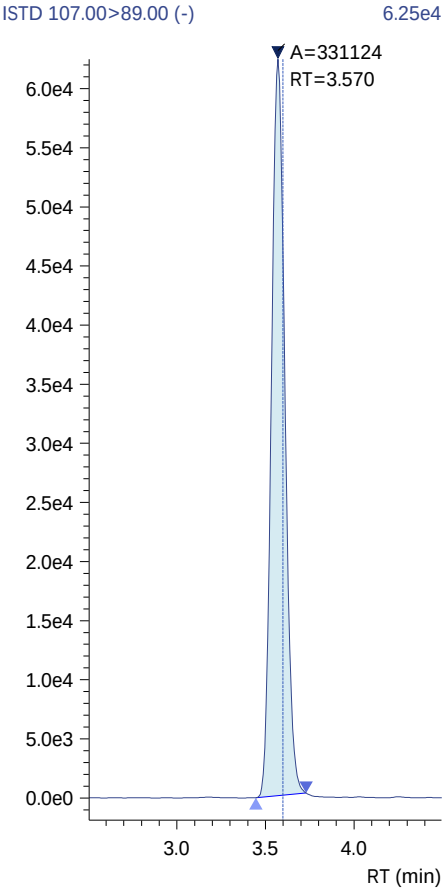
Perchlorate

Conc 2.0545
R#1 27.89 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/3/2023 9:30:46 AM

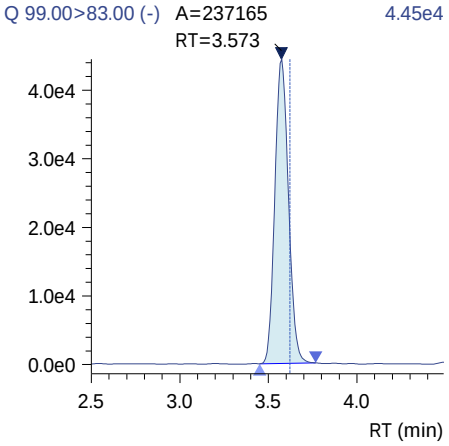
Perchlorate ICAL 6

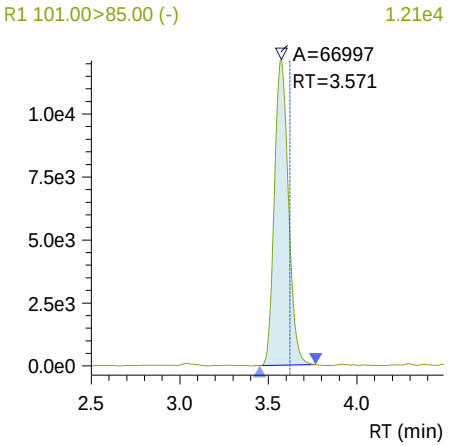
Sample ID: Perchlorate ICAL 6
Date Acquired: 8/2/2023 1:45:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-008.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.573	237165	321666	5.0000	ng/mL	101.00 >85.00	28.25	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.570	321666	321666	1.0000	ng/mL	----	----	

Perchlorate

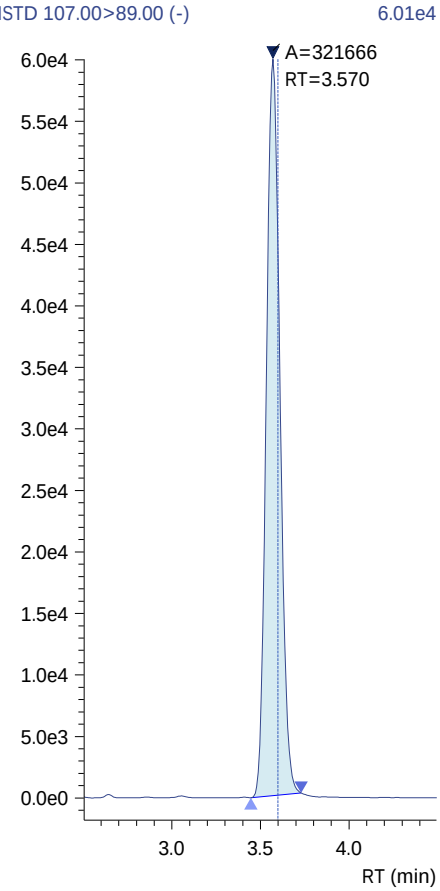
Conc 5.0000
R#1 28.25 (30.41)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/3/2023 9:30:46 AM

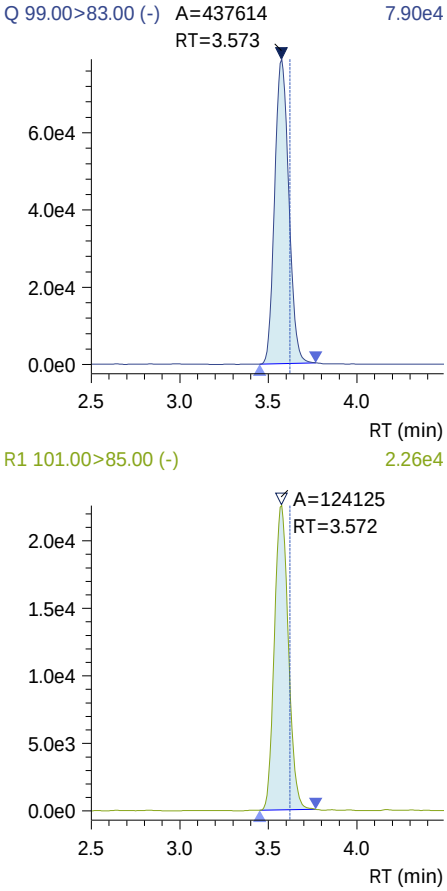
Perchlorate ICAL 7

Sample ID: Perchlorate ICAL 7
Date Acquired: 8/2/2023 1:50:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-009.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	3.573	437614	291215	10.1905	ng/mL	101.00 >85.00	28.36	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.570	291215	291215	1.0000	ng/mL	----	----	

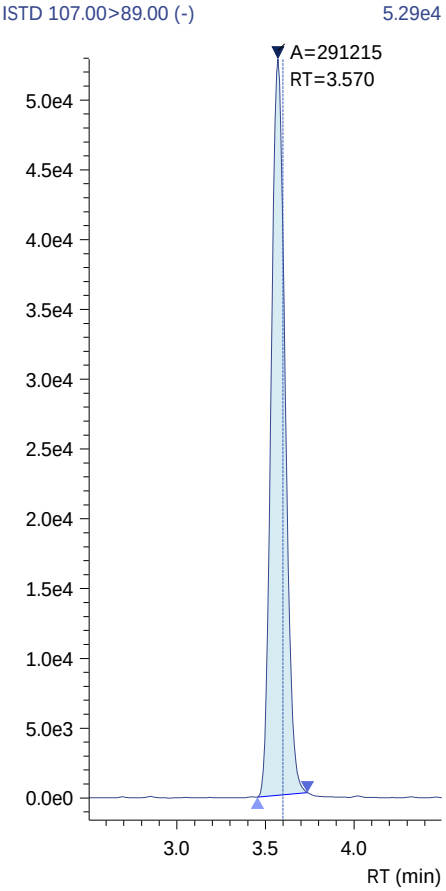
Perchlorate

Conc 10.1905
R#1 28.36 (30.41)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/3/2023 9:30:46 AM

Perchlorate ICAL 8

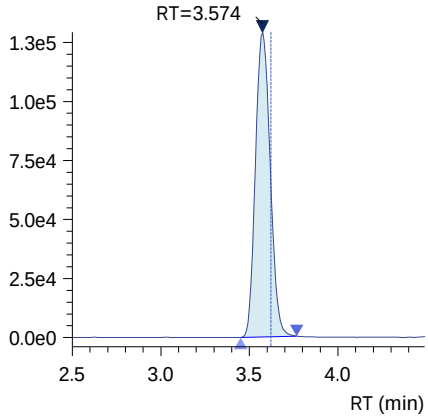
Sample ID: Perchlorate ICAL 8
Date Acquired: 8/2/2023 1:56:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-010.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.574	749856	253829	20.03 36	ng/mL	101.00 >85.00	28.56	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.569	253829	253829	1.0000	ng/mL	----	----	

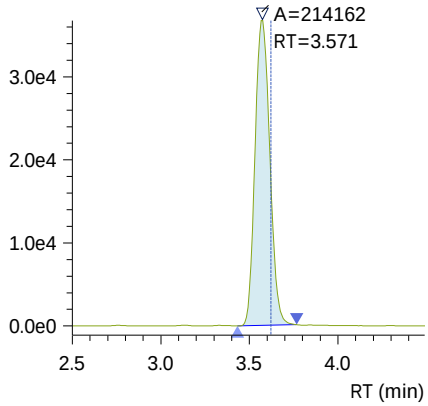
Perchlorate

Conc 20.0336
R#1 28.56 (30.41)

Q 99.00>83.00 (-) A=749856 1.29e5



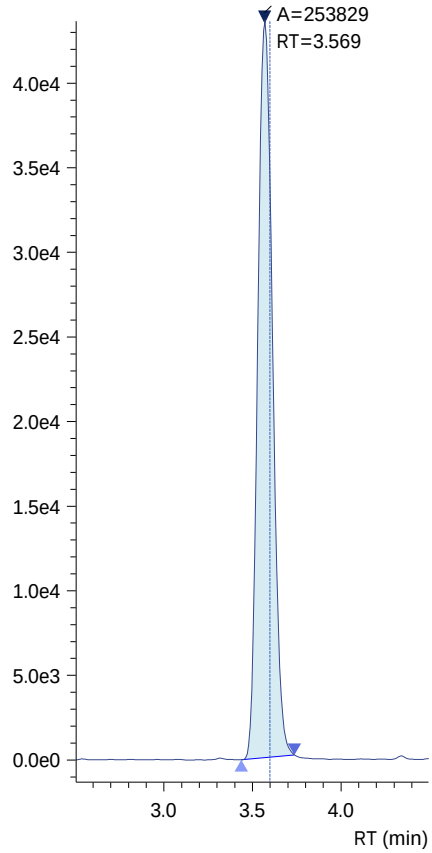
R1 101.00>85.00 (-) 3.68e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.37e4



Insight Report

Printed at 8/3/2023 9:30:46 AM

Perchlorate ICAL 9

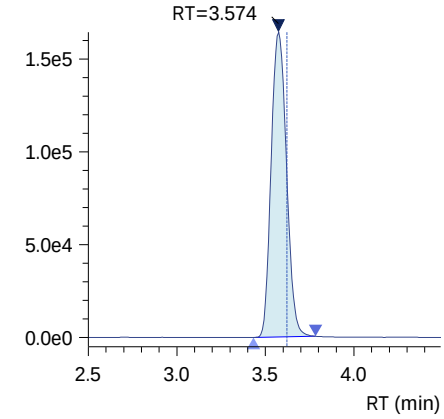
Sample ID: Perchlorate ICAL 9
Date Acquired: 8/2/2023 2:02:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-011.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.574	990671	222379	30.2105	ng/mL	101.00 >85.00	27.95	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.568	222379	222379	1.0000	ng/mL	----	----	

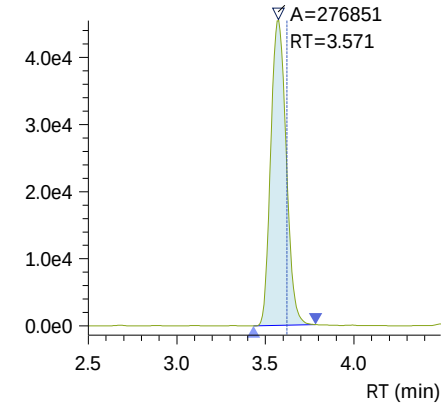
Perchlorate

Conc 30.2105
R#1 27.95 (30.41)

Q 99.00>83.00 (-) A=990671 RT=3.574 1.64e5



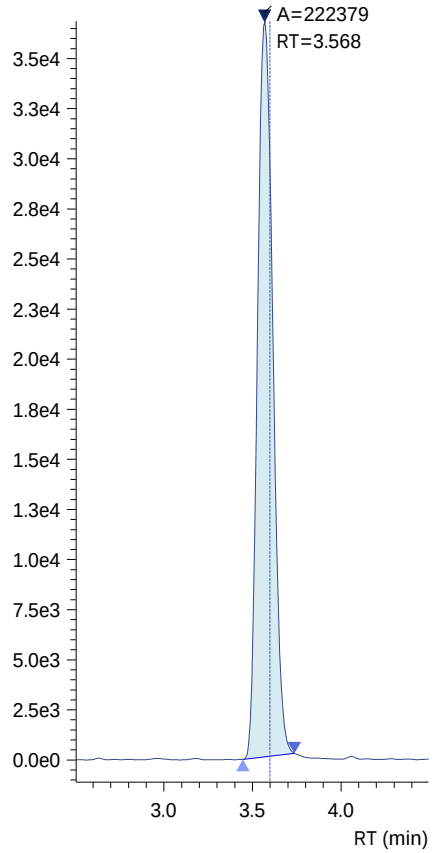
R1 101.00>85.00 (-) 4.55e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.69e4



Insight Report

Printed at 8/3/2023 9:30:46 AM

Perchlorate ICAL 10

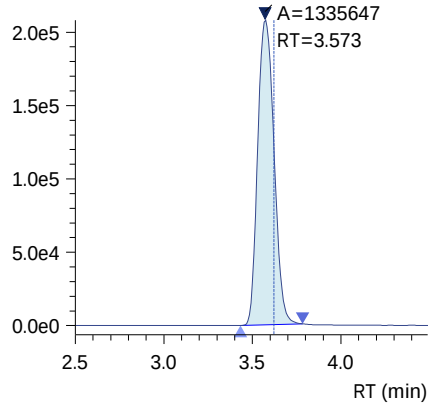
Sample ID: Perchlorate ICAL 10
Date Acquired: 8/2/2023 2:07:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-012.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.573	1335647	178573	50.72 20	ng/mL	101.00 >85.00	28.04	21.29-39.54
Sodium Perchlorate-18O4 _IS	Auto	3.567	178573	178573	1.0000	ng/mL	----	----	

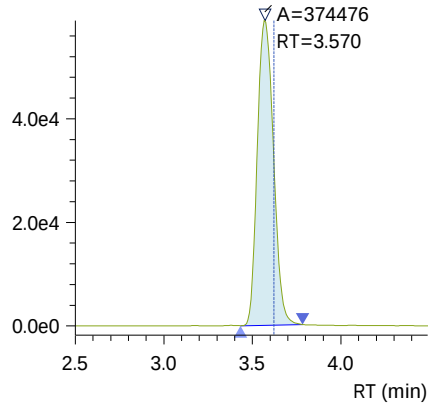
Perchlorate

Conc 50.7220
R#1 28.04 (30.41)

Q 99.00>83.00 (-) 2.08e5



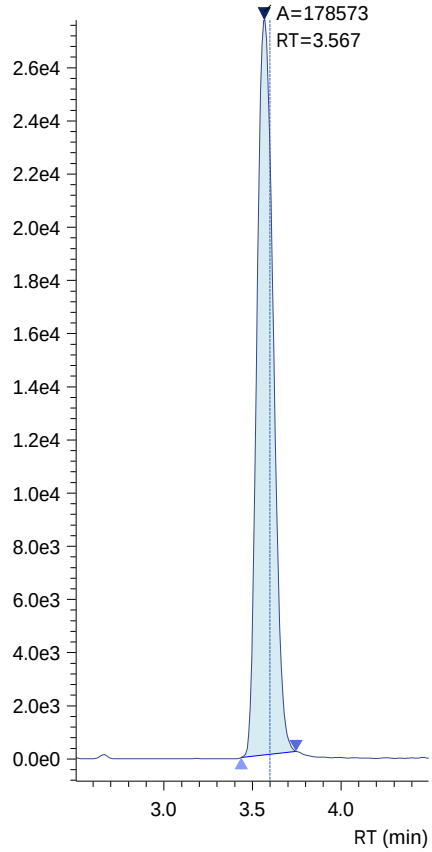
R1 101.00>85.00 (-) 5.90e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.78e4



Insight Report

Printed at 8/3/2023 9:30:46 AM

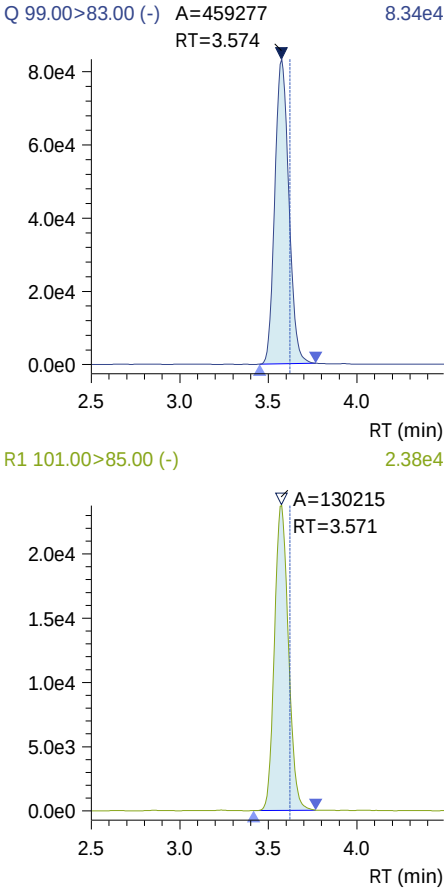
PerchlorateICV

Sample ID: PerchlorateICV
Date Acquired: 8/2/2023 2:19:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230802\2230802-013.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	3.574	459277	291890	10.6703	ng/mL	101.00 >85.00	28.35	21.29-39.54
Sodium Perchlorate-18O4_IS	Auto	3.570	291890	291890	1.0000	ng/mL	----	----	

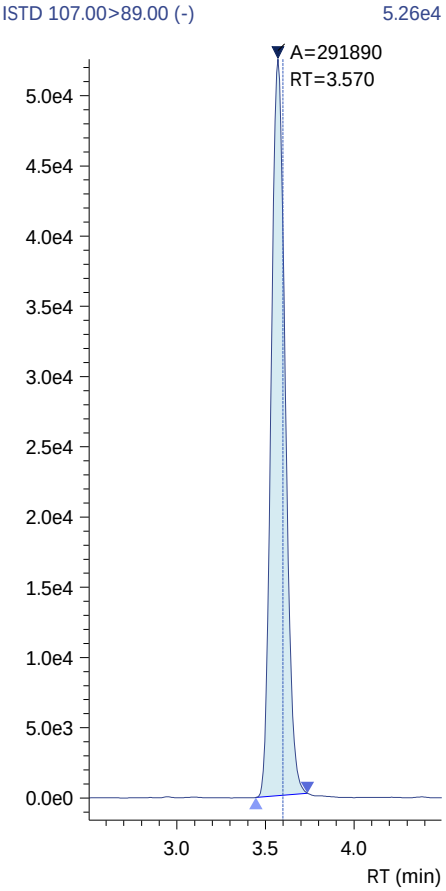
Perchlorate

Conc 10.6703
R#1 28.35 (30.41)



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

Insight Report

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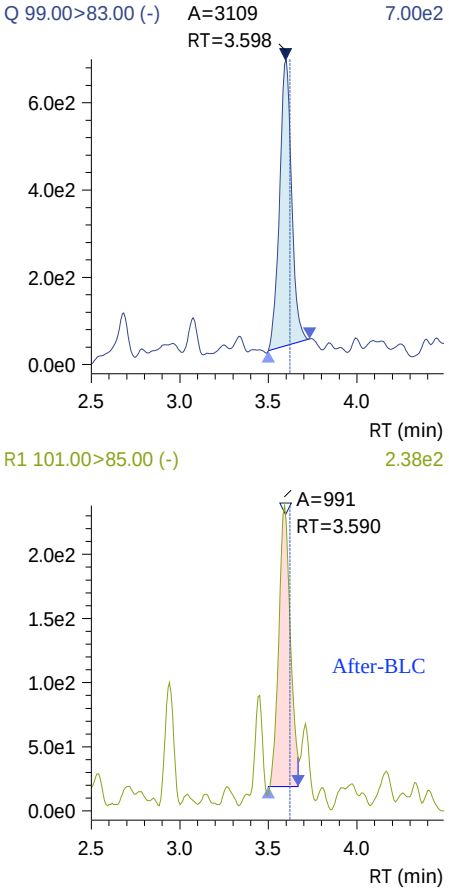
LODV

Sample ID: LODV
Date Acquired: 8/18/2023 8:18:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-002.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	MI R1	3.598	3109	410240	0.0514	ng/mL	101.00 >85.00	31.87	19.93-37.01
Sodium Perchlorate-18O4 _IS	Auto	3.590	4102 40	410240	1.0000	ng/mL	----	----	

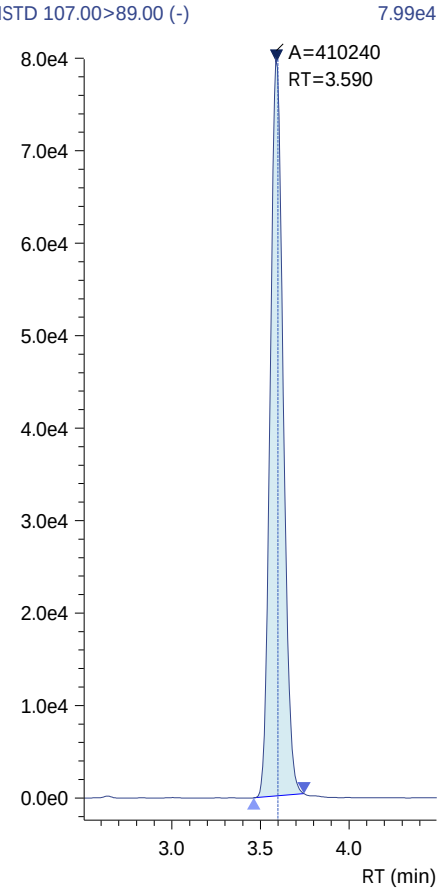
Perchlorate

Conc 0.0514
R#1 31.87 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2023 12:18:17 PM

Method File: I:\LCMS01\DATA\20230817\20230818.lcm
Project File: I:\LCMS01\DATA\20230817\20230818.damlp

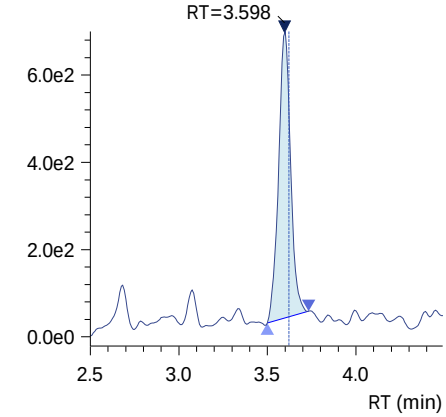
LODV

Sample ID: LODV
Date Acquired: 8/18/2023 8:18:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

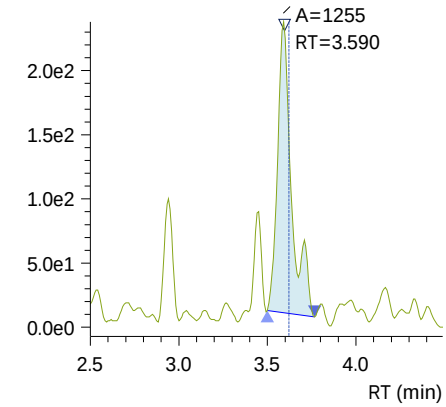
Perchlorate

Conc 0.0514
R#1 40.36 (28.47)

Q 99.00>83.00 (-) A=3109 7.00e2



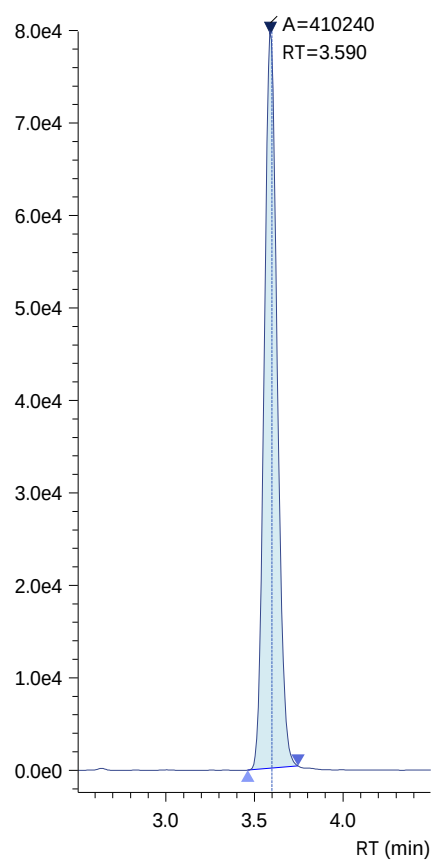
R1 101.00>85.00 (-) 2.38e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 7.99e4



Insight Report

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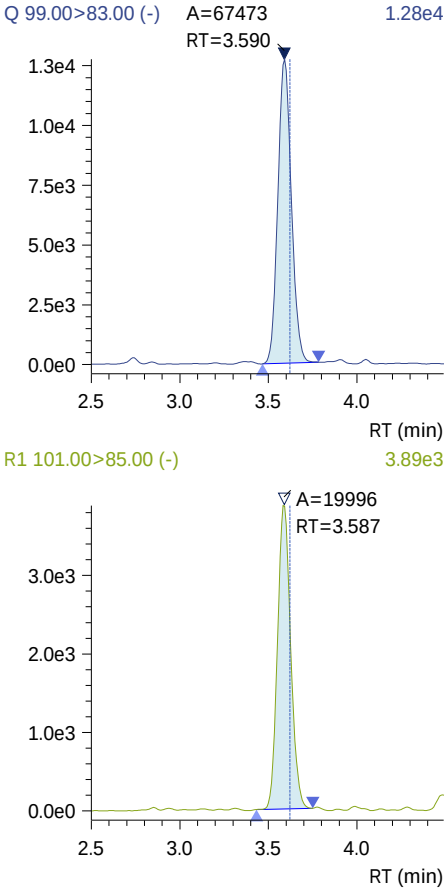
ICS

Sample ID: ICS
Date Acquired: 8/18/2023 8:30:51 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-004.lcd
Vial: 2 | 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	Auto	3.590	67473	415167	1.1021	ng/mL	101.00 >85.00	29.64	19.93-37.01
Sodium Perchlorate-18O4 _IS	Auto	3.585	4151 67	415167	1.0000	ng/mL	----	----	

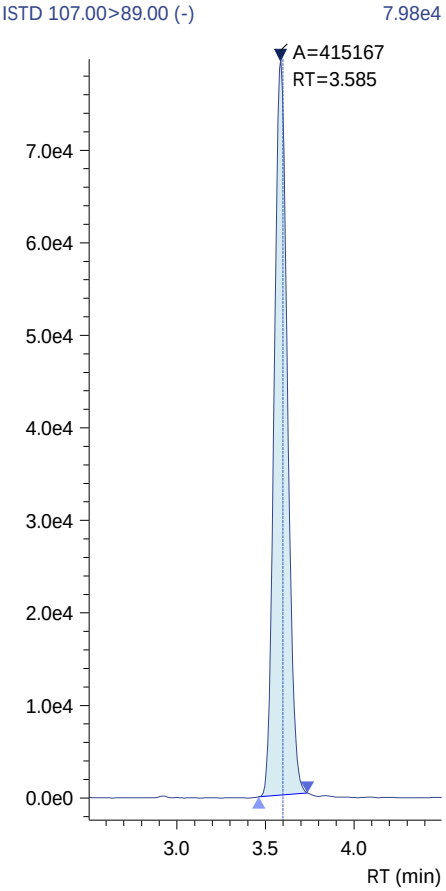
Perchlorate

Conc 1.1021
R#1 29.64 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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CCV

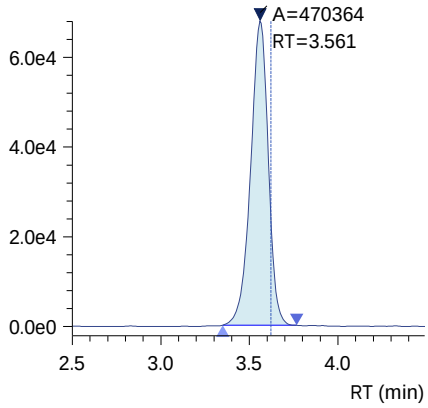
Sample ID: CCV
Date Acquired: 8/18/2023 8:55:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-005.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	470364	315173	10.1206	ng/mL	101.00 >85.00	28.61	19.93-37.01
Sodium Perchlorate-18O4_IS	Auto	3.557	315173	315173	1.0000	ng/mL	----	----	

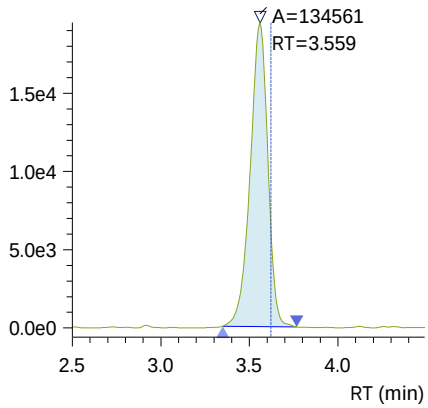
Perchlorate

Conc 10.1206
R#1 28.61 (28.47)

Q 99.00>83.00 (-) 6.81e4



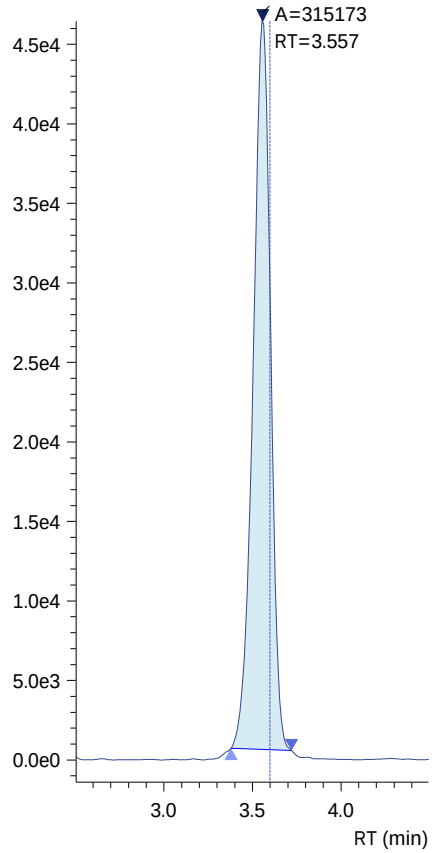
R1 101.00>85.00 (-) 1.95e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.65e4



Insight Report

Printed at 8/18/2023 12:17:01 PM

EQ2300403-01

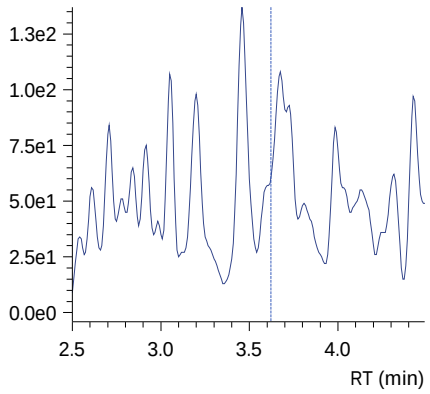
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Date Acquired: 8/18/2023 9:00:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	333390	----	ng/mL	101.00 >85.00	0.00	19.93-37.01
Sodium Perchlorate-18O4_IS	Auto	3.581	333390	333390	1.0000	ng/mL	----	----	

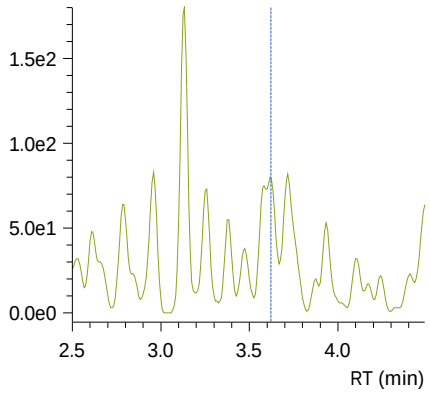
Perchlorate

Conc ----
R#1 0.00 (28.47)

Q 99.00>83.00 (-) 1.37e2



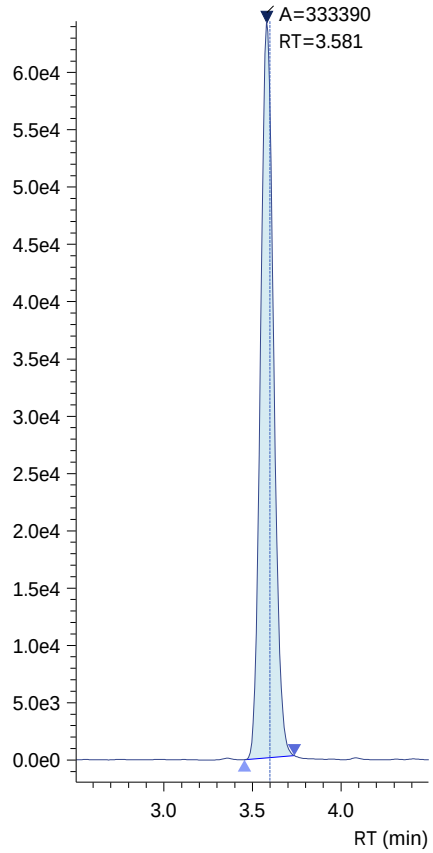
R1 101.00>85.00 (-) 1.80e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.45e4



Insight Report

Printed at 8/18/2023 12:17:01 PM

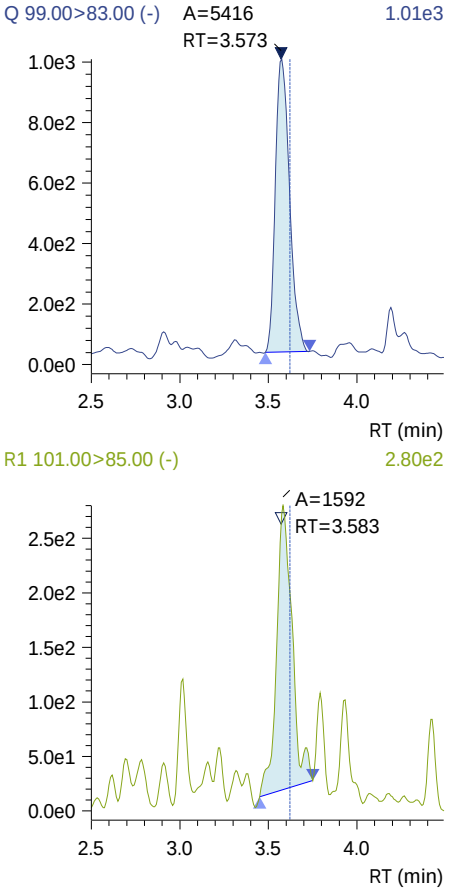
EQ2300403-02

Sample ID: EQ2300403-02
Date Acquired: 8/18/2023 9:06:14 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-007.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	Auto	3.573	5416	323357	0.1136	ng/mL	101.00 >85.00	29.40	19.93-37.01
Sodium Perchlorate-18O4 _IS	Auto	3.582	3233 57	323357	1.0000	ng/mL	----	----	

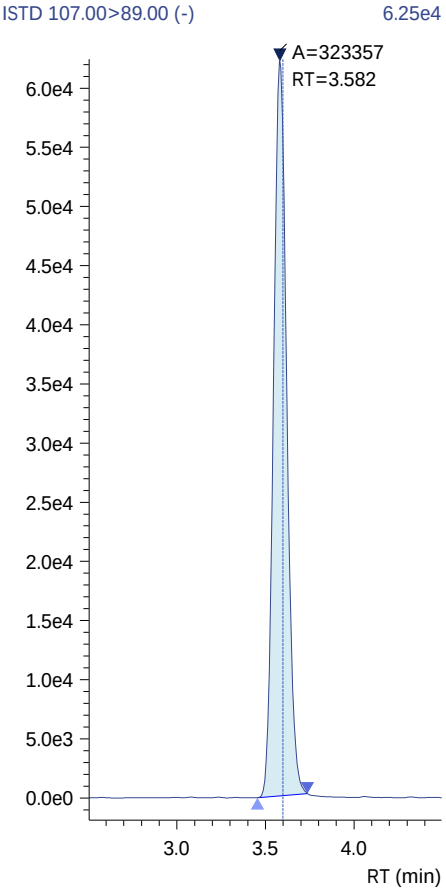
Perchlorate

Conc 0.1136
R#1 29.40 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2023 12:17:01 PM

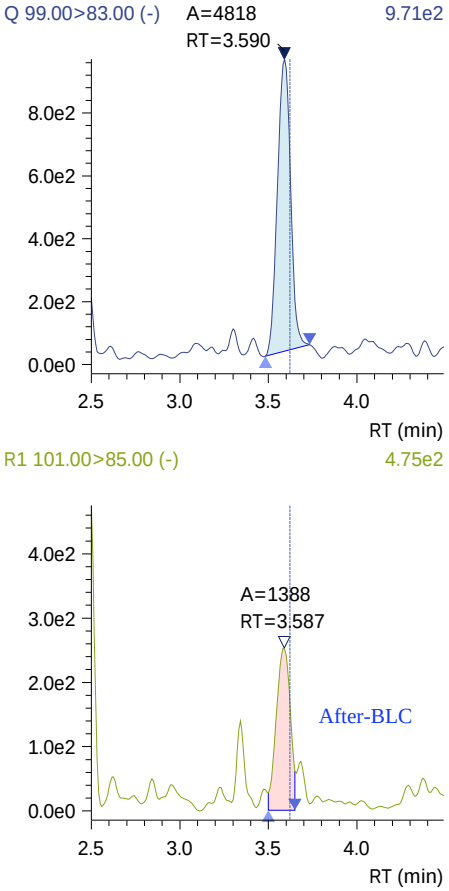
EQ2300403-03

Sample ID: EQ2300403-03
Date Acquired: 8/18/2023 9:11:48 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-008.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	MI R1	3.590	4818	320951	0.1018	ng/mL	101.00 >85.00	28.80	19.93-37.01
Sodium Perchlorate-18O4 _IS	Auto	3.582	320951	320951	1.0000	ng/mL	----	----	

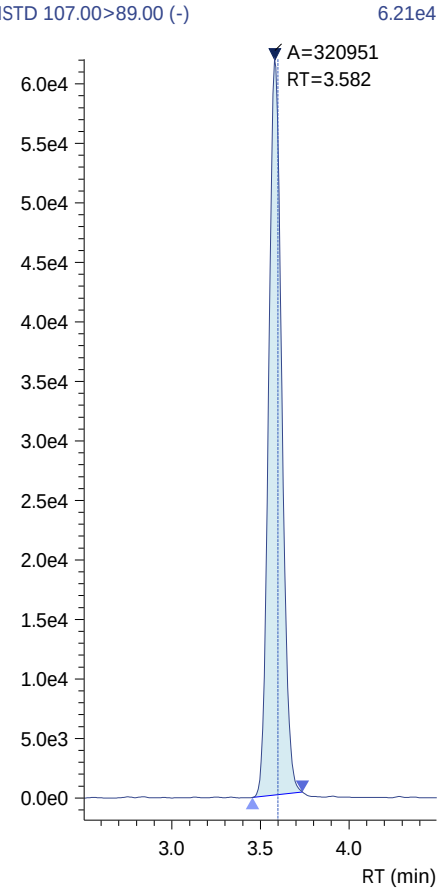
Perchlorate

Conc 0.1018
R#1 28.80 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2023 12:18:17 PM

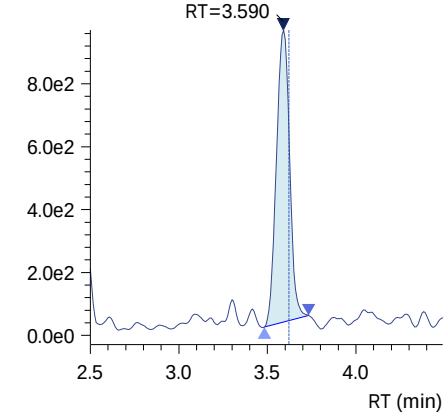
EQ2300403-03

Sample ID: EQ2300403-03
Date Acquired: 8/18/2023 9:11:48 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-008.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 4

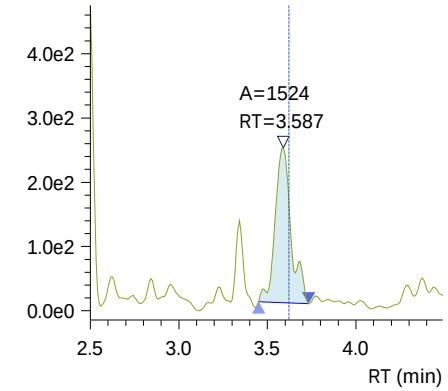
Perchlorate

Conc 0.1018
R#1 31.64 (28.47)

Q 99.00>83.00 (-) A=4818 9.71e2



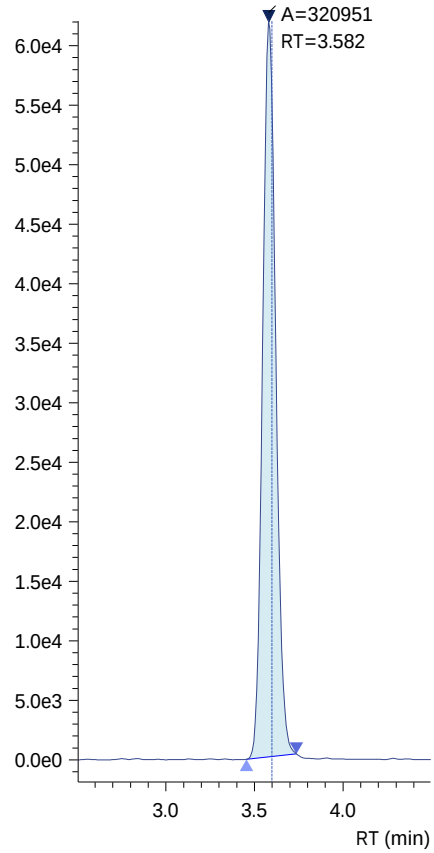
R1 101.00>85.00 (-) 4.75e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.21e4



Insight Report

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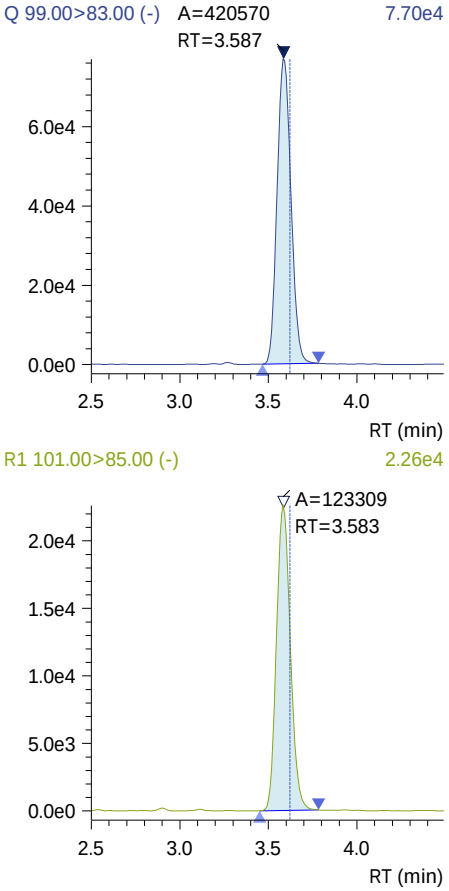
CCV

Sample ID: CCV
Date Acquired: 8/18/2023 11:03:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-016.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	3.587	420570	286291	9.9621	ng/mL	101.00 >85.00	29.32	19.93-37.01
Sodium Perchlorate-18O4_IS	Auto	3.582	286291	286291	1.0000	ng/mL	----	----	

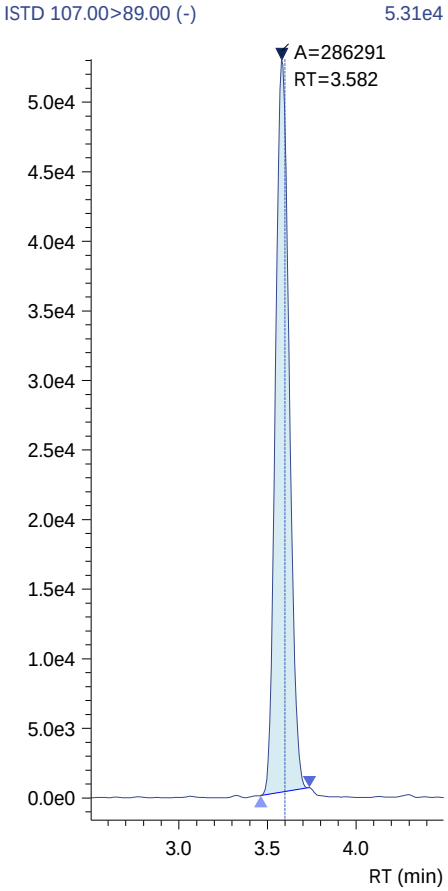
Perchlorate

Conc 9.9621
R#1 29.32 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2023 12:17:01 PM

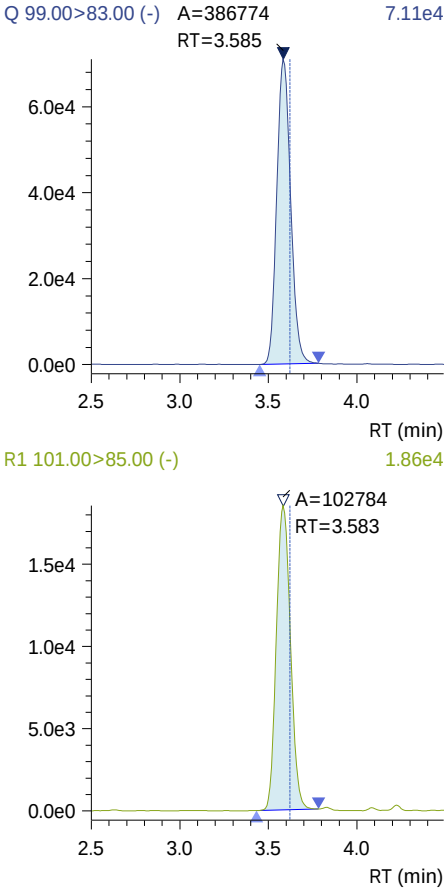
E2300746-001X2K

Sample ID: E2300746-001
Date Acquired: 8/18/2023 11:50:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-022.lcd
Vial: 15 | 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	3.585	386774	272561	9.6231	ng/mL	101.00 >85.00	26.58	19.93-37.01
Sodium Perchlorate-18O4_IS	Auto	3.580	272561	272561	1.0000	ng/mL	----	----	

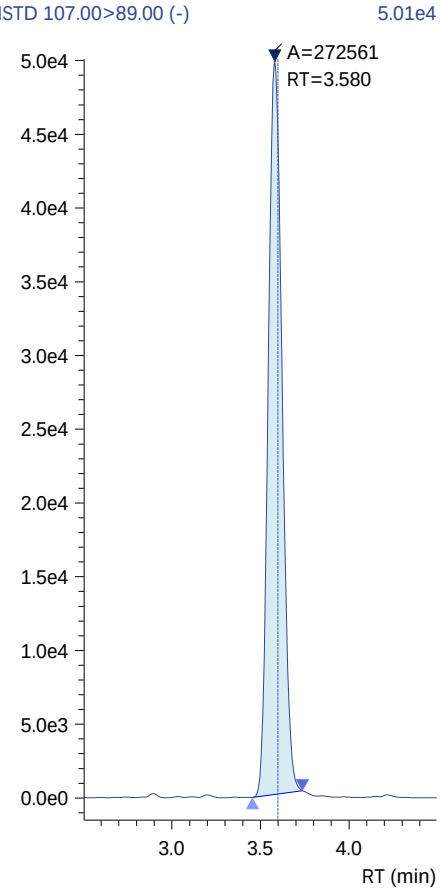
Perchlorate

Conc 9.6231
R#1 26.58 (28.47)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2023 12:17:01 PM

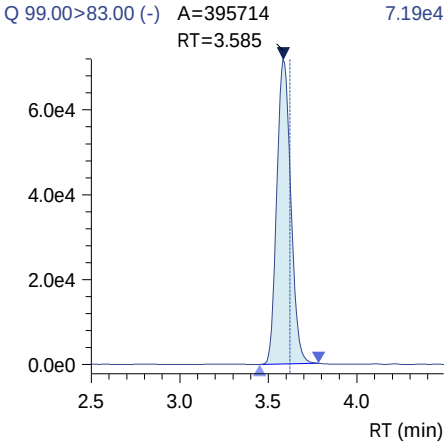
CCV

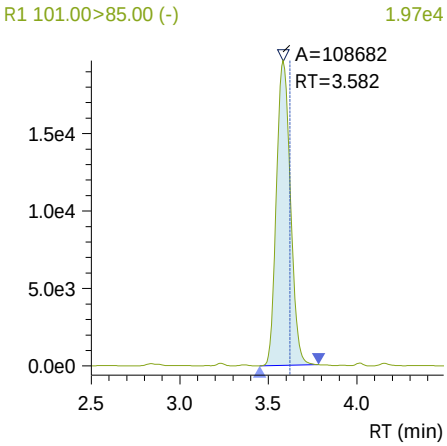
Sample ID: CCV
Date Acquired: 8/18/2023 11:56:06 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230817\2230818-023.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.585	395714	267826	10.0196	ng/mL	101.00 >85.00	27.47	19.93-37.01
Sodium Perchlorate-18O4_IS	Auto	3.581	267826	267826	1.0000	ng/mL	----	----	

Perchlorate

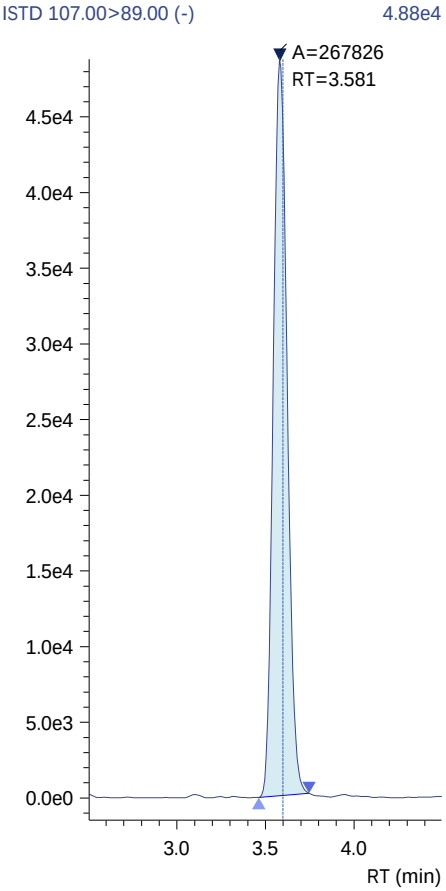
Conc 10.0196
R#1 27.47 (28.47)





Sodium Perchlorate-18O4_IS

Conc 1.0000



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300746
Project:	Perchlorates	**Date Analyzed:**	8/18/23 08:55

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230808\2230818-005	**Lab Code:**	EQ2300406-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	814330
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	297,129	3.57
	Upper Limit ==>	445,694	5.57
	Lower Limit ==>	148,565	1.57
Associated Analyses			
Continuing Calibration Verification	EQ2300406-01	315,173	3.56
Method Blank	EQ2300403-01	333,390	3.58
Lab Control Sample	EQ2300403-02	323,357	3.58
Duplicate Lab Control Sample	EQ2300403-03	320,951	3.58

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300746
Project:	Perchlorates	**Date Analyzed:**	8/18/23 11:03

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230808\2230818-016	**Lab Code:**	EQ2300406-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	814330
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	297,129	3.57
	Upper Limit ==>	445,694	5.57
	Lower Limit ==>	148,565	1.57
Associated Analyses			
Continuing Calibration Verification	EQ2300406-02	286,291	3.58
LH18/24-SP140	E2300746-001	272,561	3.58

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300746
Project:	Perchlorates	**Date Analyzed:**	8/18/23 11:56

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230808\2230818-023	**Lab Code:**	EQ2300406-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	814330
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	297,129	3.57
	Upper Limit ==>	445,694	5.57
	Lower Limit ==>	148,565	1.57
Associated Analyses			
Continuing Calibration Verification	EQ2300406-03	267,826	3.58

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: Perchlorates

Service Request: E2300746
Date Analyzed: 8/18/23

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\20230808\2230818-005

Calibration Date: 8/2/23
Calibration ID: EC2300012
Analysis Lot: 814330
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1475	0.1492	1.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2300746
Date Analyzed: 8/18/23

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\20230808\2230818-016

Calibration Date: 8/2/23
Calibration ID: EC2300012
Analysis Lot: 814330
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.96	0.1475	0.1469	-0.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2300746
Date Analyzed: 8/18/23

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\20230808\2230818-023

Calibration Date: 8/2/23
Calibration ID: EC2300012
Analysis Lot: 814330
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.0	0.1475	0.1478	0.2	NA	± 15 %	Average RF

20230818-814330

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XM
2nd Review: KN

ICAL Date: 8/2/2023
Cal. Std. xp: 02/02/2024
ICAL ID: EC2300012

Mobile Phases : A:20mM ammonium acetate in water 230388 **B:**Acetonitrile 229152

	Sample Name		File Name	Acquisition Method	Dilution	Comments	Date/Time
1	IB		2230818-001	Perchlorate6850c.lcm	1x		8/18/2023 8:13
2	LODV		2230818-002	Perchlorate6850c.lcm	1x	230386	8/18/2023 8:18
3	ICS		2230818-003	Perchlorate6850c.lcm	1x	DNU-IS	8/18/2023 8:24
4	ICS		2230818-004	Perchlorate6850c.lcm	1x	32103051	8/18/2023 8:30
5	CCV		2230818-005	Perchlorate6850c.lcm	1x	230380	8/18/2023 8:55
6	EQ2300403-01		2230818-006	Perchlorate6850c.lcm	1x		8/18/2023 9:00
7	EQ2300403-02		2230818-007	Perchlorate6850c.lcm	1x		8/18/2023 9:06
8	EQ2300403-03		2230818-008	Perchlorate6850c.lcm	1x		8/18/2023 9:11
9	E2300744-001		2230818-009	Perchlorate6850c.lcm	1x		8/18/2023 9:17
10	E2300744-002		2230818-010	Perchlorate6850c.lcm	1x		8/18/2023 9:22
11	E2300744-003		2230818-011	Perchlorate6850c.lcm	5x		8/18/2023 9:28
12	K2309094-001		2230818-012	Perchlorate6850c.lcm	1x		8/18/2023 9:33
13	K2309094-002		2230818-013	Perchlorate6850c.lcm	1x		8/18/2023 9:39
14	K2309094-003		2230818-014	Perchlorate6850c.lcm	1x		8/18/2023 9:44
15	R2307250-005		2230818-015	Perchlorate6850c.lcm	1x		8/18/2023 9:50
16	CCV		2230818-016	Perchlorate6850c.lcm	1x	230380	8/18/2023 11:03
17	R2307250-011		2230818-017	Perchlorate6850c.lcm	1x		8/18/2023 11:09
18	R2307325-004		2230818-018	Perchlorate6850c.lcm	1x		8/18/2023 11:14
19	R2307325-009		2230818-019	Perchlorate6850c.lcm	1x		8/18/2023 11:20
20	IB		2230818-020	Perchlorate6850c.lcm	1x		8/18/2023 11:39
21	E2300745-001		2230818-021	Perchlorate6850c.lcm	1x		8/18/2023 11:45
22	E2300746-001		2230818-022	Perchlorate6850c.lcm	2000x		8/18/2023 11:50
23	CCV		2230818-023	Perchlorate6850c.lcm	1x	230380	8/18/2023 11:56

HS23081076 Groundwater Treatment Plant Quarterly Effluent Samples Cover Page

ALS WO# HS23081076

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Form 3 - ICPMS07_444934 CCB
Form 4 - ICPMS06_445040 ICSA
Form 4 - ICPMS07_444934 ICSA

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WorkOrder: HS23081076

Groundwater Treatment Plant Quarterly Effluent Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

29-Aug-2023

HS23081076 Groundwater Treatment Plant Quarterly Effluent Samples Final

ALS WO# HS23081076

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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August 29, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23081076**

Laboratory Results for: **Groundwater Treatment Plant Quarterly Effluent Samples**

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on Aug 17, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
James Guin

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Work Order: HS23081076

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23081076-01	LH18/24-SP650_081623	Water		16-Aug-2023 13:00	17-Aug-2023 09:50	☐
HS23081076-02	LH18/24-SP650_081623_AIX	Water		16-Aug-2023 13:00	17-Aug-2023 09:50	☐
HS23081076-03	Trip Blank	Water	CG-071023-010	16-Aug-2023 13:00	17-Aug-2023 09:50	☐

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Work Order: HS23081076

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 199190

Sample ID: LCSD1-199190

- The RPD between the LCS and LCSD was outside of the control limit.

GCMS Volatiles by Method SW8260

Batch ID: R444516

Sample ID: Trip Blank (HS23081076-03)

- Hexachlorobutadiene is exceeded %D limits on CCV. Associated samples are ND for this analyte.

Sample ID: VLCSW-230821

- Hexachlorobutadiene exceeded %D limits on LCS. Associated samples are ND for this analyte.

Sample ID: HS23081216-13MS

- MS and MSD are for an unrelated samplle

Metals by Method SW7470A

Batch ID: 199581

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 199483

Sample ID: LH18/24-SP650_081623 (HS23081076-01MS)

- Selenium failed for MS and/or MSD but passed on PDS
- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Sodium)

WetChemistry by Method E1664A

Batch ID: R444849

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: R444810

Sample ID: HS23081487-01MS

- MS and MSD are for an unrelated sample (Chloride,Sulfate)

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Work Order: HS23081076

WetChemistry by Method E410.4

Batch ID: R444779

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS23081076
Sample ID: LH18/24-SP650_081623 Lab ID:HS23081076-01
Collection Date: 16-Aug-2023 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: AKP
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 18:14
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	21-Aug-2023 18:14
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
2-Hexanone	**3.3**		**1.0**	**1.0**	**2.0**	**ug/L**	1	21-Aug-2023 18:14
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 18:14
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	21-Aug-2023 18:14
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	21-Aug-2023 18:14
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	21-Aug-2023 18:14
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS23081076
Sample ID: LH18/24-SP650_081623 Lab ID:HS23081076-01
Collection Date: 16-Aug-2023 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: AKP
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
cis-1,2-Dichloroethene	**3.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	21-Aug-2023 18:14
cis-1,3-Dichloropropene	1.0	U	0.10	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
m,p-Xylene	2.0	U	0.50	2.0	2.0	ug/L	1	21-Aug-2023 18:14
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	21-Aug-2023 18:14
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 18:14
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 18:14
Vinyl chloride	**0.80**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	21-Aug-2023 18:14
Surr: 1,2-Dichloroethane-d4	*104*			**0**	*81-118*	*%REC*	*1*	*21-Aug-2023 18:14*
Surr: 4-Bromofluorobenzene	*90.4*			**0**	*85-114*	*%REC*	*1*	*21-Aug-2023 18:14*
Surr: Dibromofluoromethane	*102*			**0**	*80-119*	*%REC*	*1*	*21-Aug-2023 18:14*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*21-Aug-2023 18:14*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 18-Aug-2023		Analyst: JLJ
1,4-Dioxane	**1.2**		**0.050**	**0.050**	**0.050**	**ug/L**	5	28-Aug-2023 18:05
Surr: 2-Fluorobiphenyl	*132*			**0**	*40-140*	*%REC*	*5*	*28-Aug-2023 18:05*
Surr: 4-Terphenyl-d14	*116*			**0**	*40-140*	*%REC*	*5*	*28-Aug-2023 18:05*
Surr: Nitrobenzene-d5	*91.4*			**0**	*40-140*	*%REC*	*5*	*28-Aug-2023 18:05*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Sample ID: LH18/24-SP650_081623
Collection Date: 16-Aug-2023 13:00

ANALYTICAL REPORT
WorkOrder:HS23081076
Lab ID:HS23081076-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 24-Aug-2023		Analyst: MSC
Aluminum	**0.0105**		**0.00180**	**0.0150**	**0.0100**	**mg/L**	1	28-Aug-2023 18:43
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Aug-2023 18:43
Arsenic	**0.000623**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	28-Aug-2023 18:43
Barium	**0.195**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	28-Aug-2023 18:43
Beryllium	**0.000210**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	28-Aug-2023 18:43
Cadmium	**0.000267**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	28-Aug-2023 18:43
Calcium	**13.5**		**0.0340**	**1.00**	**0.500**	**mg/L**	1	28-Aug-2023 18:43
Chromium	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	28-Aug-2023 18:43
Cobalt	**0.000228**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	28-Aug-2023 18:43
Iron	**0.0432**	J	**0.0120**	**1.00**	**0.200**	**mg/L**	1	28-Aug-2023 18:43
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Aug-2023 18:43
Magnesium	**17.7**		**0.0100**	**1.00**	**0.200**	**mg/L**	1	28-Aug-2023 18:43
Manganese	**0.0267**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	28-Aug-2023 18:43
Nickel	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	28-Aug-2023 18:43
Potassium	**2.13**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	28-Aug-2023 18:43
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	28-Aug-2023 18:43
Silver	**0.000247**	J	**0.000200**	**0.000500**	**0.00500**	**mg/L**	1	28-Aug-2023 18:43
Sodium	**835**		**1.40**	**100**	**20.0**	**mg/L**	100	29-Aug-2023 12:05
Thallium	**0.000577**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	28-Aug-2023 18:43
Vanadium	**0.00162**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	28-Aug-2023 18:43
Zinc	**0.00379**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	28-Aug-2023 18:43
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 28-Aug-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	28-Aug-2023 14:27
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**						Analyst: MC
Oil and Grease	1.00	U	0.610	1.00	2.00	mg/L	1	25-Aug-2023 12:35
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**						Analyst: TH
Chemical Oxygen Demand	**100**		**5.00**	**7.50**	**15.0**	**mg/L**	1	24-Aug-2023 14:30
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**1,240**		**8.00**	**10.0**	**20.0**	**mg/L**	40	24-Aug-2023 22:18
Sulfate	**64.5**		**0.400**	**0.500**	**1.00**	**mg/L**	2	24-Aug-2023 22:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 29-Aug-23

ANALYTICAL REPORT

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Sample ID: LH18/24-SP650_081623_AIX
Collection Date: 16-Aug-2023 13:00

WorkOrder:HS23081076
Lab ID:HS23081076-02
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	23-Aug-2023 10:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS23081076
Sample ID: Trip Blank Lab ID:HS23081076-03
Collection Date: 16-Aug-2023 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: AKP
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:54
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	21-Aug-2023 17:54
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	21-Aug-2023 17:54
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:54
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	21-Aug-2023 17:54
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	21-Aug-2023 17:54
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	21-Aug-2023 17:54
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS23081076
Sample ID: Trip Blank Lab ID:HS23081076-03
Collection Date: 16-Aug-2023 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: AKP
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
cis-1,3-Dichloropropene	1.0	U	0.10	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
m,p-Xylene	2.0	U	0.50	2.0	2.0	ug/L	1	21-Aug-2023 17:54
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	21-Aug-2023 17:54
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Aug-2023 17:54
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	21-Aug-2023 17:54
Surr: 1,2-Dichloroethane-d4	*104*			**0**	*81-118*	*%REC*	*1*	*21-Aug-2023 17:54*
Surr: 4-Bromofluorobenzene	*88.0*			**0**	*85-114*	*%REC*	*1*	*21-Aug-2023 17:54*
Surr: Dibromofluoromethane	*103*			**0**	*80-119*	*%REC*	*1*	*21-Aug-2023 17:54*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*21-Aug-2023 17:54*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Batch ID: 199190 **Start Date:** 18 Aug 2023 12:01 **End Date:** 18 Aug 2023 12:01
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23081076-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 199483 **Start Date:** 24 Aug 2023 14:30 **End Date:** 24 Aug 2023 14:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23081076-01		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 199581 **Start Date:** 28 Aug 2023 09:00 **End Date:** 28 Aug 2023 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23081076-01		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 199190 (1)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS23081076-01	LH18/24-SP650_081623	16 Aug 2023 13:00		18 Aug 2023 12:01	28 Aug 2023 18:05	5
Batch ID: 199483 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS23081076-01	LH18/24-SP650_081623	16 Aug 2023 13:00		24 Aug 2023 14:30	29 Aug 2023 12:05	100
HS23081076-01	LH18/24-SP650_081623	16 Aug 2023 13:00		24 Aug 2023 14:30	28 Aug 2023 18:43	1
Batch ID: 199581 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS23081076-01	LH18/24-SP650_081623	16 Aug 2023 13:00		28 Aug 2023 09:00	28 Aug 2023 14:27	1
Batch ID: R444516 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23081076-01	LH18/24-SP650_081623	16 Aug 2023 13:00			21 Aug 2023 18:14	1
HS23081076-03	Trip Blank	16 Aug 2023 13:00			21 Aug 2023 17:54	1
Batch ID: R444612 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS23081076-02	LH18/24-SP650_081623_AIX	16 Aug 2023 13:00			23 Aug 2023 10:43	1
Batch ID: R444779 (0)	**Test Name :** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993				**Matrix:** Water	
HS23081076-01	LH18/24-SP650_081623	16 Aug 2023 13:00			24 Aug 2023 14:30	1
Batch ID: R444810 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS23081076-01	LH18/24-SP650_081623	16 Aug 2023 13:00			24 Aug 2023 22:18	40
HS23081076-01	LH18/24-SP650_081623	16 Aug 2023 13:00			24 Aug 2023 22:13	2
Batch ID: R444849 (0)	**Test Name :** OIL & GREASE (HEM) BY E1664A				**Matrix:** Water	
HS23081076-01	LH18/24-SP650_081623	16 Aug 2023 13:00			25 Aug 2023 12:35	1

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-199483** Units: **mg/L** Analysis Date: **29-Aug-2023 11:55**
Client ID: Run ID: **ICPMS06_445040** SeqNo: **7514575** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.002191	0.0100								J
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	1.00	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Iron	1.00	0.200								U
Lead	0.00125	0.00500								U
Magnesium	1.00	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	1.00	0.200								U
Selenium	0.00250	0.00500								U
Silver	0.000500	0.00500								U
Sodium	1.00	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: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-199483** Units: **mg/L** Analysis Date: **28-Aug-2023 18:38**
Client ID: Run ID: **ICPMS07_444934** SeqNo: **7513278** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1026	0.0100	0.1	0	103	84 - 117				
Antimony	0.04958	0.00500	0.05	0	99.2	85 - 117				
Arsenic	0.05031	0.00500	0.05	0	101	84 - 116				
Barium	0.05019	0.00500	0.05	0	100	86 - 114				
Beryllium	0.04922	0.00200	0.05	0	98.4	83 - 121				
Cadmium	0.05067	0.00200	0.05	0	101	87 - 115				
Calcium	4.935	0.500	5	0	98.7	87 - 118				
Chromium	0.04964	0.00500	0.05	0	99.3	85 - 116				
Cobalt	0.05028	0.00500	0.05	0	101	86 - 115				
Iron	5.046	0.200	5	0	101	87 - 118				
Lead	0.04406	0.00500	0.05	0	88.1	88 - 115				
Magnesium	5.067	0.200	5	0	101	83 - 118				
Manganese	0.05008	0.00500	0.05	0	100	87 - 115				
Nickel	0.05027	0.00500	0.05	0	101	85 - 117				
Potassium	4.998	0.200	5	0	100.0	87 - 115				
Selenium	0.05109	0.00500	0.05	0	102	80 - 120				
Silver	0.04768	0.00500	0.05	0	95.4	85 - 116				
Sodium	4.997	0.200	5	0	99.9	85 - 117				
Vanadium	0.04832	0.00500	0.05	0	96.6	86 - 115				
Zinc	0.0518	0.00500	0.05	0	104	83 - 119				

LCS Sample ID: **LCS-199483** Units: **mg/L** Analysis Date: **29-Aug-2023 12:42**
Client ID: Run ID: **ICPMS06_445040** SeqNo: **7514707** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04595	0.00200	0.05	0	91.9	82 - 116				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument:** ICPMS06 **Method:** METALS BY ICPMS BY SW6020A

MS Sample ID: **HS23081076-01MS** Units: **mg/L** Analysis Date: **29-Aug-2023 12:01**
Client ID: **LH18/24-SP650_081623** Run ID: **ICPMS06_445040** SeqNo: **7514578** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.113	0.0100	0.1	0.01045	103	84 - 117				
Antimony	0.04911	0.00500	0.05	0.000303	97.6	85 - 117				
Arsenic	0.05285	0.00500	0.05	0.000623	104	84 - 116				
Barium	0.2444	0.00500	0.05	0.1946	99.5	86 - 114				
Beryllium	0.04736	0.00200	0.05	0.00021	94.3	83 - 121				
Cadmium	0.05054	0.00200	0.05	0.000267	101	87 - 115				
Calcium	19.28	0.500	5	13.49	116	87 - 118				
Chromium	0.04996	0.00500	0.05	0.000317	99.3	85 - 116				
Cobalt	0.04873	0.00500	0.05	0.000228	97.0	86 - 115				
Iron	5.098	0.200	5	0.04319	101	87 - 118				
Lead	0.05223	0.00500	0.05	0.000274	104	88 - 115				
Magnesium	22.87	0.200	5	17.73	103	83 - 118				
Manganese	0.07635	0.00500	0.05	0.02673	99.3	87 - 115				
Nickel	0.04791	0.00500	0.05	0.000456	94.9	85 - 117				
Potassium	7.195	0.200	5	2.133	101	87 - 115				
Selenium	0.03378	0.00500	0.05	-0.00135	70.2	80 - 120				S
Silver	0.04924	0.00500	0.05	0.000247	98.0	85 - 116				
Sodium	832.2	0.200	5	822.2	200	85 - 117				SEO
Thallium	0.04173	0.00200	0.05	0.000577	82.3	82 - 116				
Vanadium	0.05143	0.00500	0.05	0.001615	99.6	86 - 115				
Zinc	0.05477	0.00500	0.05	0.003792	102	83 - 119				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS23081076-01MSD** Units: **mg/L** Analysis Date: **28-Aug-2023 18:50**
Client ID: **LH18/24-SP650_081623** Run ID: **ICPMS07_444934** SeqNo: **7513284** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1127	0.0100	0.1	0.01045	102	84 - 117	0.113	0.273	20	
Antimony	0.05179	0.00500	0.05	0.000303	103	85 - 117	0.04911	5.32	20	
Arsenic	0.05436	0.00500	0.05	0.000623	107	84 - 116	0.05285	2.81	20	
Barium	0.2503	0.00500	0.05	0.1946	111	86 - 114	0.2444	2.4	20	
Beryllium	0.04821	0.00200	0.05	0.00021	96.0	83 - 121	0.04736	1.8	20	
Cadmium	0.05146	0.00200	0.05	0.000267	102	87 - 115	0.05054	1.79	20	
Calcium	19.04	0.500	5	13.49	111	87 - 118	19.28	1.21	20	
Chromium	0.05178	0.00500	0.05	0.000317	103	85 - 116	0.04996	3.6	20	
Cobalt	0.05182	0.00500	0.05	0.000228	103	86 - 115	0.04873	6.14	20	
Iron	5.243	0.200	5	0.04319	104	87 - 118	5.098	2.79	20	
Lead	0.05168	0.00500	0.05	0.000274	103	88 - 115	0.05223	1.06	20	
Magnesium	23.37	0.200	5	17.73	113	83 - 118	22.87	2.2	20	
Manganese	0.07942	0.00500	0.05	0.02673	105	87 - 115	0.07635	3.94	20	
Nickel	0.05119	0.00500	0.05	0.000456	101	85 - 117	0.04791	6.62	20	
Potassium	7.387	0.200	5	2.133	105	87 - 115	7.195	2.63	20	
Selenium	0.03348	0.00500	0.05	-0.00135	69.7	80 - 120	0.03378	0.88	20	S
Silver	0.04785	0.00500	0.05	0.000247	95.2	85 - 116	0.04924	2.87	20	
Sodium	857.9	0.200	5	822.2	712	85 - 117	832.2	3.03	20	SEO
Thallium	0.04316	0.00200	0.05	0.000577	85.2	82 - 116	0.04173	3.36	20	
Vanadium	0.05594	0.00500	0.05	0.001615	109	86 - 115	0.05143	8.41	20	
Zinc	0.05512	0.00500	0.05	0.003792	103	83 - 119	0.05477	0.639	20	

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS23081076-01PDS** Units: **mg/L** Analysis Date: **28-Aug-2023 18:52**
Client ID: **LH18/24-SP650_081623** Run ID: **ICPMS07_444934** SeqNo: **7513285** PrepDate: **24-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	0.1116	0.0100	0.1	0.01045	101	80 - 120			
Antimony	0.09859	0.00500	0.1	0.000303	98.3	80 - 120			
Arsenic	0.1048	0.00500	0.1	0.000623	104	80 - 120			
Barium	0.2943	0.00500	0.1	0.1946	99.7	80 - 120			
Beryllium	0.09586	0.00200	0.1	0.00021	95.6	80 - 120			
Cadmium	0.1009	0.00200	0.1	0.000267	101	80 - 120			
Calcium	25.45	0.500	10	13.49	120	80 - 120			
Chromium	0.101	0.00500	0.1	0.000317	101	80 - 120			
Cobalt	0.1001	0.00500	0.1	0.000228	99.9	80 - 120			
Iron	10.15	0.200	10	0.04319	101	80 - 120			
Lead	0.1	0.00500	0.1	0.000274	99.8	80 - 120			
Magnesium	27.58	0.200	10	17.73	98.5	80 - 120			
Manganese	0.1274	0.00500	0.1	0.02673	101	80 - 120			
Nickel	0.09794	0.00500	0.1	0.000456	97.5	80 - 120			
Potassium	12.38	0.200	10	2.133	102	80 - 120			
Selenium	0.1019	0.00500	0.1	-0.00135	103	80 - 120			
Silver	0.09355	0.00500	0.1	0.000247	93.3	80 - 120			
Thallium	0.0957	0.00200	0.1	0.000577	95.1	80 - 120			
Vanadium	0.1047	0.00500	0.1	0.001615	103	80 - 120			
Zinc	0.1046	0.00500	0.1	0.003792	101	80 - 120			

PDS Sample ID: **HS23081076-01PDS** Units: **mg/L** Analysis Date: **29-Aug-2023 12:09**
Client ID: **LH18/24-SP650_081623** Run ID: **ICPMS06_445040** SeqNo: **7514606** PrepDate: **24-Aug-2023** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Sodium	1788	20.0	1000	835.1	95.3	80 - 120			

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: 199483 (0) **Instrument:** ICPMS06 **Method:** METALS BY ICPMS BY SW6020A

SD Sample ID: **HS23081076-01SD** Units: **mg/L** Analysis Date: **28-Aug-2023 18:45**
Client ID: **LH18/24-SP650_081623** Run ID: **ICPMS07_444934** SeqNo: **7513281** PrepDate: **24-Aug-2023** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.01548	0.0500					0.01045	0	10	J
Antimony	0.00625	0.0250					0.000303	0	10	U
Arsenic	0.00625	0.0250					0.000623	0	10	U
Barium	0.1992	0.0250					0.1946	2.32	10	
Beryllium	0.00250	0.0100					0.00021	0	10	U
Cadmium	0.00250	0.0100					0.000267	0	10	U
Calcium	13.61	2.50					13.49	0.845	10	
Chromium	0.00625	0.0250					0.000317	0	10	U
Cobalt	0.00250	0.0250					0.000228	0	10	U
Iron	0.06114	1.00					0.04319	0	10	J
Lead	0.00625	0.0250					0.000274	0	10	U
Magnesium	18.22	1.00					17.73	2.75	10	
Manganese	0.02749	0.0250					0.02673	2.84	10	
Nickel	0.00625	0.0250					0.000456	0	10	U
Potassium	2.059	1.00					2.133	3.48	10	
Selenium	0.0125	0.0250					-0.00135	0	10	U
Silver	0.00250	0.0250					0.000247	0	10	U
Sodium	849.2	1.00					822.2	3.28	10	
Thallium	0.00250	0.0100					0.000577	0	10	U
Vanadium	0.01104	0.0250					0.001615	0	10	J
Zinc	0.0125	0.0250					0.003792	0	10	U

SD Sample ID: **HS23081076-01SD** Units: **mg/L** Analysis Date: **29-Aug-2023 12:07**
Client ID: **LH18/24-SP650_081623** Run ID: **ICPMS06_445040** SeqNo: **7514605** PrepDate: **24-Aug-2023** DF: **500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Sodium	896.2	100					835.1	7.33	10	

The following samples were analyzed in this batch: HS23081076-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: 199581 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-199581** Units: **mg/L** Analysis Date: **28-Aug-2023 14:17**
Client ID: Run ID: **HG04_444967** SeqNo: **7512560** PrepDate: **28-Aug-2023** 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-199581** Units: **mg/L** Analysis Date: **28-Aug-2023 14:20**
Client ID: Run ID: **HG04_444967** SeqNo: **7512561** PrepDate: **28-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00472	0.000200	0.005	0	94.4	82 - 119				

MS Sample ID: **HS23081040-01MS** Units: **mg/L** Analysis Date: **28-Aug-2023 14:24**
Client ID: Run ID: **HG04_444967** SeqNo: **7512563** PrepDate: **28-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00465	0.000200	0.005	0.00001800	92.6	82 - 119				

MSD Sample ID: **HS23081040-01MSD** Units: **mg/L** Analysis Date: **28-Aug-2023 14:25**
Client ID: Run ID: **HG04_444967** SeqNo: **7512564** PrepDate: **28-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00461	0.000200	0.005	0.00001800	91.8	82 - 119	0.004650	0.864	20	

The following samples were analyzed in this batch: HS23081076-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: 199190 (1) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-199190** Units: **ug/L** Analysis Date: **28-Aug-2023 15:23**
Client ID: Run ID: **SV-6_444955** SeqNo: **7514237** PrepDate: **18-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.010	0.030								U
Surr: 2-Fluorobiphenyl	*0.07044*	*0*	*0.08*	*0*	*88.1*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.08868*	*0*	*0.08*	*0*	*111*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06631*	*0*	*0.08*	*0*	*82.9*	*40 - 140*				

LCS Sample ID: **LCS1-199190** Units: **ug/L** Analysis Date: **28-Aug-2023 15:41**
Client ID: Run ID: **SV-6_444955** SeqNo: **7514238** PrepDate: **18-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.05953	0.030	0.08	0	74.4	40 - 140				
Surr: 2-Fluorobiphenyl	*0.08498*	*0*	*0.08*	*0*	*106*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.08771*	*0*	*0.08*	*0*	*110*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.09846*	*0*	*0.08*	*0*	*123*	*40 - 140*				

LCSD Sample ID: **LCSD1-199190** Units: **ug/L** Analysis Date: **28-Aug-2023 15:59**
Client ID: Run ID: **SV-6_444955** SeqNo: **7514239** PrepDate: **18-Aug-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.06571	0.030	0.08	0	82.1	40 - 140	0.05953	9.87	20	
Surr: 2-Fluorobiphenyl	*0.1042*	*0*	*0.08*	*0*	*130*	*40 - 140*	*0.08498*	*20.3*	*20*	R
Surr: 4-Terphenyl-d14	*0.08064*	*0*	*0.08*	*0*	*101*	*40 - 140*	*0.08771*	*8.39*	*20*	
Surr: Nitrobenzene-d5	*0.09881*	*0*	*0.08*	*0*	*124*	*40 - 140*	*0.09846*	*0.358*	*20*	

The following samples were analyzed in this batch: HS23081076-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230821** Units: **ug/L** Analysis Date: **21-Aug-2023 10:14**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502585** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230821** Units: **ug/L** Analysis Date: **21-Aug-2023 10:14**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502585** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	2.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*50.59*	*1.0*	*50*	*0*	*101*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*45.42*	*1.0*	*50*	*0*	*90.8*	*85 - 114*				
Surr: Dibromofluoromethane	*51.32*	*1.0*	*50*	*0*	*103*	*80 - 119*				
Surr: Toluene-d8	*51.92*	*1.0*	*50*	*0*	*104*	*89 - 112*				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230821** Units: **ug/L** Analysis Date: **21-Aug-2023 09:33**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502584** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.97	1.0	20	0	105	78 - 124				
1,1,1-Trichloroethane	22	1.0	20	0	110	74 - 131				
1,1,2,2-Tetrachloroethane	19.15	1.0	20	0	95.8	71 - 121				
1,1,2-Trichloroethane	19.99	1.0	20	0	99.9	80 - 119				
1,1-Dichloroethane	18.81	1.0	20	0	94.1	77 - 125				
1,1-Dichloroethene	20.23	1.0	20	0	101	71 - 131				
1,1-Dichloropropene	22.34	1.0	20	0	112	78 - 125				
1,2,3-Trichlorobenzene	20.6	1.0	20	0	103	69 - 129				
1,2,3-Trichloropropane	19.58	1.0	20	0	97.9	73 - 122				
1,2,4-Trichlorobenzene	21.29	1.0	20	0	106	69 - 130				
1,2,4-Trimethylbenzene	21.51	1.0	20	0	108	76 - 124				
1,2-Dibromo-3-chloropropane	19.6	1.0	20	0	98.0	62 - 128				
1,2-Dibromoethane	19.89	1.0	20	0	99.4	77 - 121				
1,2-Dichlorobenzene	20.59	1.0	20	0	103	80 - 119				
1,2-Dichloroethane	19.49	1.0	20	0	97.5	73 - 128				
1,2-Dichloropropane	19.41	1.0	20	0	97.1	78 - 122				
1,3,5-Trimethylbenzene	21.99	1.0	20	0	110	75 - 124				
1,3-Dichlorobenzene	21.33	1.0	20	0	107	80 - 119				
1,3-Dichloropropane	19.7	1.0	20	0	98.5	80 - 119				
1,4-Dichlorobenzene	21.12	1.0	20	0	106	79 - 118				
2,2-Dichloropropane	21.52	1.0	20	0	108	60 - 139				
2-Butanone	36.88	2.0	40	0	92.2	56 - 143				
2-Chlorotoluene	21.28	1.0	20	0	106	79 - 122				
2-Hexanone	38.55	2.0	40	0	96.4	57 - 139				
4-Chlorotoluene	21.3	1.0	20	0	107	78 - 122				
4-Isopropyltoluene	23.02	1.0	20	0	115	77 - 127				
4-Methyl-2-pentanone	37.25	2.0	40	0	93.1	67 - 130				
Acetone	46.33	2.0	40	0	116	39 - 160				
Benzene	20.58	1.0	20	0	103	79 - 120				
Bromobenzene	21.06	1.0	20	0	105	80 - 120				
Bromochloromethane	19.93	1.0	20	0	99.6	78 - 123				
Bromodichloromethane	20.14	1.0	20	0	101	79 - 125				
Bromoform	21.06	1.0	20	0	105	66 - 130				
Bromomethane	19.37	1.0	20	0	96.8	53 - 141				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230821** Units: **ug/L** Analysis Date: **21-Aug-2023 09:33**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502584** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	40.25	2.0	40	0	101	64 - 133				
Carbon tetrachloride	22.46	1.0	20	0	112	72 - 136				
Chlorobenzene	20.55	1.0	20	0	103	82 - 118				
Chloroethane	19.86	1.0	20	0	99.3	60 - 138				
Chloroform	19.98	1.0	20	0	99.9	79 - 124				
Chloromethane	19.99	1.0	20	0	100.0	50 - 139				
cis-1,2-Dichloroethene	20.71	1.0	20	0	104	78 - 123				
cis-1,3-Dichloropropene	20.07	1.0	20	0	100	75 - 124				
Dibromochloromethane	20.61	1.0	20	0	103	74 - 126				
Dibromomethane	19.4	1.0	20	0	97.0	79 - 123				
Dichlorodifluoromethane	21.29	1.0	20	0	106	32 - 152				
Ethylbenzene	21.78	1.0	20	0	109	79 - 121				
Hexachlorobutadiene	31.98	1.0	20	0	160	66 - 134				S
Isopropylbenzene	21.93	1.0	20	0	110	72 - 131				
m,p-Xylene	43.38	2.0	40	0	108	80 - 121				
Methylene chloride	19.08	2.0	20	0	95.4	74 - 124				
Naphthalene	18.88	1.0	20	0	94.4	61 - 128				
n-Butylbenzene	22.38	1.0	20	0	112	75 - 128				
n-Propylbenzene	23.15	1.0	20	0	116	76 - 126				
o-Xylene	20.8	1.0	20	0	104	78 - 122				
sec-Butylbenzene	23.72	1.0	20	0	119	77 - 126				
Styrene	21.46	1.0	20	0	107	78 - 123				
tert-Butylbenzene	23.1	1.0	20	0	115	78 - 124				
Tetrachloroethene	22.67	1.0	20	0	113	74 - 129				
Toluene	20.68	1.0	20	0	103	80 - 121				
trans-1,2-Dichloroethene	19.69	1.0	20	0	98.5	75 - 124				
trans-1,3-Dichloropropene	19.3	1.0	20	0	96.5	73 - 127				
Trichloroethene	20.85	1.0	20	0	104	79 - 123				
Trichlorofluoromethane	21.41	1.0	20	0	107	65 - 141				
Vinyl chloride	20.42	1.0	20	0	102	58 - 137				
Surr: 1,2-Dichloroethane-d4	*49.59*	*1.0*	*50*	*0*	*99.2*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.38*	*1.0*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*51.52*	*1.0*	*50*	*0*	*103*	*80 - 119*				
Surr: Toluene-d8	*48.01*	*1.0*	*50*	*0*	*96.0*	*89 - 112*				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23081216-13MS** Units: **ug/L** Analysis Date: **21-Aug-2023 15:51**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502587** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	21.26	1.0	20	0	106	78 - 124				
1,1,1-Trichloroethane	21.05	1.0	20	0	105	74 - 131				
1,1,2,2-Tetrachloroethane	19.51	1.0	20	0	97.5	71 - 121				
1,1,2-Trichloroethane	20.95	1.0	20	0	105	80 - 119				
1,1-Dichloroethane	18.57	1.0	20	0	92.9	77 - 125				
1,1-Dichloroethene	20.48	1.0	20	0	102	71 - 131				
1,1-Dichloropropene	22.51	1.0	20	0	113	78 - 125				
1,2,3-Trichlorobenzene	20.15	1.0	20	0	101	69 - 129				
1,2,3-Trichloropropane	27.17	1.0	20	0	136	73 - 122				S
1,2,4-Trichlorobenzene	21.36	1.0	20	0	107	69 - 130				
1,2,4-Trimethylbenzene	22.36	1.0	20	0	112	76 - 124				
1,2-Dibromo-3-chloropropane	18.55	1.0	20	0	92.8	62 - 128				
1,2-Dibromoethane	21.1	1.0	20	0	106	77 - 121				
1,2-Dichlorobenzene	21.09	1.0	20	0	105	80 - 119				
1,2-Dichloroethane	19.46	1.0	20	0	97.3	73 - 128				
1,2-Dichloropropane	19.07	1.0	20	0	95.4	78 - 122				
1,3,5-Trimethylbenzene	22.73	1.0	20	0	114	75 - 124				
1,3-Dichlorobenzene	21.72	1.0	20	0	109	80 - 119				
1,3-Dichloropropane	20.48	1.0	20	0	102	80 - 119				
1,4-Dichlorobenzene	21.93	1.0	20	0	110	79 - 118				
2,2-Dichloropropane	20.15	1.0	20	0	101	60 - 139				
2-Butanone	29.97	2.0	40	0	74.9	56 - 143				
2-Chlorotoluene	22.32	1.0	20	0	112	79 - 122				
2-Hexanone	36.91	2.0	40	0	92.3	57 - 139				
4-Chlorotoluene	22.35	1.0	20	0	112	78 - 122				
4-Isopropyltoluene	23.75	1.0	20	0	119	77 - 127				
4-Methyl-2-pentanone	38.07	2.0	40	0	95.2	67 - 130				
Acetone	33.05	2.0	40	0	82.6	39 - 160				
Benzene	21.18	1.0	20	0	106	79 - 120				
Bromobenzene	21.84	1.0	20	0	109	80 - 120				
Bromochloromethane	19.27	1.0	20	0	96.4	78 - 123				
Bromodichloromethane	19.68	1.0	20	0	98.4	79 - 125				
Bromoform	20.6	1.0	20	0	103	66 - 130				
Bromomethane	18.46	1.0	20	0	92.3	53 - 141				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23081216-13MS** Units: **ug/L** Analysis Date: **21-Aug-2023 15:51**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502587** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	40.9	2.0	40	0	102	64 - 133				
Carbon tetrachloride	22.4	1.0	20	0	112	72 - 136				
Chlorobenzene	21.28	1.0	20	0	106	82 - 118				
Chloroethane	20.36	1.0	20	0	102	60 - 138				
Chloroform	19.4	1.0	20	0	97.0	79 - 124				
Chloromethane	18.4	1.0	20	0	92.0	50 - 139				
cis-1,2-Dichloroethene	19.73	1.0	20	0	98.7	78 - 123				
cis-1,3-Dichloropropene	19.82	1.0	20	0	99.1	75 - 124				
Dibromochloromethane	20.55	1.0	20	0	103	74 - 126				
Dibromomethane	19.19	1.0	20	0	95.9	79 - 123				
Dichlorodifluoromethane	21.29	1.0	20	0	106	32 - 152				
Ethylbenzene	22.62	1.0	20	0	113	79 - 121				
Hexachlorobutadiene	30.37	1.0	20	0	152	66 - 134				S
Isopropylbenzene	23.39	1.0	20	0	117	72 - 131				
m,p-Xylene	44.82	2.0	40	0	112	80 - 121				
Methylene chloride	18.27	2.0	20	0	91.4	74 - 124				
Naphthalene	18.89	1.0	20	0	94.5	61 - 128				
n-Butylbenzene	22.72	1.0	20	0	114	75 - 128				
n-Propylbenzene	24.08	1.0	20	0	120	76 - 126				
o-Xylene	21.94	1.0	20	0	110	78 - 122				
sec-Butylbenzene	24.81	1.0	20	0	124	77 - 126				
Styrene	22.11	1.0	20	0	111	78 - 123				
tert-Butylbenzene	24.13	1.0	20	0	121	78 - 124				
Tetrachloroethene	24.39	1.0	20	0	122	74 - 129				
Toluene	21.59	1.0	20	0	108	80 - 121				
trans-1,2-Dichloroethene	19.47	1.0	20	0	97.4	75 - 124				
trans-1,3-Dichloropropene	18.36	1.0	20	0	91.8	73 - 127				
Trichloroethene	21.85	1.0	20	0	109	79 - 123				
Trichlorofluoromethane	21.82	1.0	20	0	109	65 - 141				
Vinyl chloride	21.07	1.0	20	0	105	58 - 137				
Surr: 1,2-Dichloroethane-d4	*50.41*	*1.0*	*50*	*0*	*101*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*47.21*	*1.0*	*50*	*0*	*94.4*	*85 - 114*				
Surr: Dibromofluoromethane	*52.15*	*1.0*	*50*	*0*	*104*	*80 - 119*				
Surr: Toluene-d8	*52.14*	*1.0*	*50*	*0*	*104*	*89 - 112*				

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23081216-13MSD** Units: **ug/L** Analysis Date: **21-Aug-2023 16:11**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502588** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.62	1.0	20	0	98.1	78 - 124	21.26	8.01	20	
1,1,1-Trichloroethane	20.62	1.0	20	0	103	74 - 131	21.05	2.04	20	
1,1,2,2-Tetrachloroethane	17.87	1.0	20	0	89.4	71 - 121	19.51	8.73	20	
1,1,2-Trichloroethane	19.89	1.0	20	0	99.4	80 - 119	20.95	5.22	20	
1,1-Dichloroethane	17.93	1.0	20	0	89.7	77 - 125	18.57	3.52	20	
1,1-Dichloroethene	19.99	1.0	20	0	99.9	71 - 131	20.48	2.41	20	
1,1-Dichloropropene	21.18	1.0	20	0	106	78 - 125	22.51	6.07	20	
1,2,3-Trichlorobenzene	18.96	1.0	20	0	94.8	69 - 129	20.15	6.11	20	
1,2,3-Trichloropropane	26.3	1.0	20	0	131	73 - 122	27.17	3.25	20	S
1,2,4-Trichlorobenzene	19.34	1.0	20	0	96.7	69 - 130	21.36	9.94	20	
1,2,4-Trimethylbenzene	19.95	1.0	20	0	99.8	76 - 124	22.36	11.4	20	
1,2-Dibromo-3-chloropropane	17.52	1.0	20	0	87.6	62 - 128	18.55	5.73	20	
1,2-Dibromoethane	19.83	1.0	20	0	99.2	77 - 121	21.1	6.2	20	
1,2-Dichlorobenzene	18.92	1.0	20	0	94.6	80 - 119	21.09	10.9	20	
1,2-Dichloroethane	18.73	1.0	20	0	93.7	73 - 128	19.46	3.78	20	
1,2-Dichloropropane	18.94	1.0	20	0	94.7	78 - 122	19.07	0.686	20	
1,3,5-Trimethylbenzene	20.45	1.0	20	0	102	75 - 124	22.73	10.5	20	
1,3-Dichlorobenzene	19.9	1.0	20	0	99.5	80 - 119	21.72	8.75	20	
1,3-Dichloropropane	19.22	1.0	20	0	96.1	80 - 119	20.48	6.32	20	
1,4-Dichlorobenzene	20.14	1.0	20	0	101	79 - 118	21.93	8.5	20	
2,2-Dichloropropane	18.97	1.0	20	0	94.9	60 - 139	20.15	6.01	20	
2-Butanone	32.77	2.0	40	0	81.9	56 - 143	29.97	8.9	20	
2-Chlorotoluene	19.94	1.0	20	0	99.7	79 - 122	22.32	11.3	20	
2-Hexanone	36.44	2.0	40	0	91.1	57 - 139	36.91	1.28	20	
4-Chlorotoluene	20.14	1.0	20	0	101	78 - 122	22.35	10.4	20	
4-Isopropyltoluene	21.67	1.0	20	0	108	77 - 127	23.75	9.15	20	
4-Methyl-2-pentanone	36.18	2.0	40	0	90.5	67 - 130	38.07	5.1	20	
Acetone	31.74	2.0	40	0	79.4	39 - 160	33.05	4.03	20	
Benzene	19.88	1.0	20	0	99.4	79 - 120	21.18	6.35	20	
Bromobenzene	19.78	1.0	20	0	98.9	80 - 120	21.84	9.93	20	
Bromochloromethane	18.28	1.0	20	0	91.4	78 - 123	19.27	5.25	20	
Bromodichloromethane	18.56	1.0	20	0	92.8	79 - 125	19.68	5.84	20	
Bromoform	19.35	1.0	20	0	96.8	66 - 130	20.6	6.22	20	
Bromomethane	17.92	1.0	20	0	89.6	53 - 141	18.46	2.97	20	

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: R444516 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23081216-13MSD** Units: **ug/L** Analysis Date: **21-Aug-2023 16:11**
Client ID: Run ID: **VOA6_444516** SeqNo: **7502588** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	38.64	2.0	40	0	96.6	64 - 133	40.9	5.68	20	
Carbon tetrachloride	21.47	1.0	20	0	107	72 - 136	22.4	4.22	20	
Chlorobenzene	19.99	1.0	20	0	100.0	82 - 118	21.28	6.26	20	
Chloroethane	18.59	1.0	20	0	93.0	60 - 138	20.36	9.08	20	
Chloroform	18.56	1.0	20	0	92.8	79 - 124	19.4	4.39	20	
Chloromethane	18.39	1.0	20	0	91.9	50 - 139	18.4	0.0629	20	
cis-1,2-Dichloroethene	19.01	1.0	20	0	95.1	78 - 123	19.73	3.7	20	
cis-1,3-Dichloropropene	18.71	1.0	20	0	93.6	75 - 124	19.82	5.72	20	
Dibromochloromethane	19.32	1.0	20	0	96.6	74 - 126	20.55	6.19	20	
Dibromomethane	18.84	1.0	20	0	94.2	79 - 123	19.19	1.86	20	
Dichlorodifluoromethane	20.42	1.0	20	0	102	32 - 152	21.29	4.18	20	
Ethylbenzene	21.1	1.0	20	0	106	79 - 121	22.62	6.95	20	
Hexachlorobutadiene	28.43	1.0	20	0	142	66 - 134	30.37	6.62	20	S
Isopropylbenzene	21.63	1.0	20	0	108	72 - 131	23.39	7.82	20	
m,p-Xylene	42.04	2.0	40	0	105	80 - 121	44.82	6.4	20	
Methylene chloride	17.67	2.0	20	0	88.3	74 - 124	18.27	3.38	20	
Naphthalene	17.91	1.0	20	0	89.6	61 - 128	18.89	5.31	20	
n-Butylbenzene	20.58	1.0	20	0	103	75 - 128	22.72	9.87	20	
n-Propylbenzene	21.69	1.0	20	0	108	76 - 126	24.08	10.5	20	
o-Xylene	20.36	1.0	20	0	102	78 - 122	21.94	7.46	20	
sec-Butylbenzene	22.3	1.0	20	0	112	77 - 126	24.81	10.6	20	
Styrene	20.2	1.0	20	0	101	78 - 123	22.11	9.04	20	
tert-Butylbenzene	21.69	1.0	20	0	108	78 - 124	24.13	10.6	20	
Tetrachloroethene	22.42	1.0	20	0	112	74 - 129	24.39	8.41	20	
Toluene	20.02	1.0	20	0	100	80 - 121	21.59	7.55	20	
trans-1,2-Dichloroethene	18.66	1.0	20	0	93.3	75 - 124	19.47	4.28	20	
trans-1,3-Dichloropropene	18.08	1.0	20	0	90.4	73 - 127	18.36	1.55	20	
Trichloroethene	20.89	1.0	20	0	104	79 - 123	21.85	4.49	20	
Trichlorofluoromethane	20.97	1.0	20	0	105	65 - 141	21.82	3.95	20	
Vinyl chloride	20.12	1.0	20	0	101	58 - 137	21.07	4.62	20	
Surr: 1,2-Dichloroethane-d4	*50.56*	*1.0*	*50*	*0*	*101*	*81 - 118*	*50.41*	*0.303*	*20*	
Surr: 4-Bromofluorobenzene	*47.12*	*1.0*	*50*	*0*	*94.2*	*85 - 114*	*47.21*	*0.191*	*20*	
Surr: Dibromofluoromethane	*51.84*	*1.0*	*50*	*0*	*104*	*80 - 119*	*52.15*	*0.598*	*20*	
Surr: Toluene-d8	*51.04*	*1.0*	*50*	*0*	*102*	*89 - 112*	*52.14*	*2.13*	*20*	

ALS Houston, US Date: 29-Aug-23

Client:	Bhate Environmental Associates, Inc.
Project:	Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder:	HS23081076

QC BATCH REPORT

Batch ID:	**R444516 (0)**	**Instrument:**	**VOA6**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS23081076-01 HS23081076-03

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: R444779 (0) **Instrument:** WetChem_HS **Method:** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993

MBLK Sample ID: **MBLK-R444779** Units: **mg/L** Analysis Date: **24-Aug-2023 14:30**
Client ID: Run ID: **WetChem_HS_444779** SeqNo: **7508240** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	7.50	15.0								U

LCS Sample ID: **LCS-R444779** Units: **mg/L** Analysis Date: **24-Aug-2023 14:30**
Client ID: Run ID: **WetChem_HS_444779** SeqNo: **7508239** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	99	15.0	100	0	99.0	85 - 115				

MS Sample ID: **HS23081058-01MS** Units: **mg/L** Analysis Date: **24-Aug-2023 14:30**
Client ID: Run ID: **WetChem_HS_444779** SeqNo: **7508242** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	61	15.0	50	13	96.0	80 - 120				

MSD Sample ID: **HS23081058-01MSD** Units: **mg/L** Analysis Date: **24-Aug-2023 14:30**
Client ID: Run ID: **WetChem_HS_444779** SeqNo: **7508241** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	60	15.0	50	13	94.0	80 - 120	61	1.65	20	

The following samples were analyzed in this batch: HS23081076-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: R444810 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **24-Aug-2023 21:26**
Client ID: Run ID: **ICS-Integrion_444810** SeqNo: **7509252** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **24-Aug-2023 21:32**
Client ID: Run ID: **ICS-Integrion_444810** SeqNo: **7509253** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.16	0.500	20	0	95.8	80 - 120				
Sulfate	20.18	0.500	20	0	101	80 - 120				

MS Sample ID: **HS23081487-01MS** Units: **mg/L** Analysis Date: **24-Aug-2023 21:44**
Client ID: Run ID: **ICS-Integrion_444810** SeqNo: **7509255** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	107.9	0.500	10	102.1	57.7	80 - 120				SEO
Sulfate	254.5	0.500	10	260.7	-61.8	80 - 120				SEO

MSD Sample ID: **HS23081487-01MSD** Units: **mg/L** Analysis Date: **24-Aug-2023 21:49**
Client ID: Run ID: **ICS-Integrion_444810** SeqNo: **7509256** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	108	0.500	10	102.1	58.2	80 - 120	107.9	0.0398	20	SEO
Sulfate	254.1	0.500	10	260.7	-66.0	80 - 120	254.5	0.166	20	SEO

The following samples were analyzed in this batch: HS23081076-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

QC BATCH REPORT

Batch ID: R444849 (0) **Instrument: Balance1** **Method: OIL & GREASE (HEM) BY E1664A**

MBLK Sample ID: **WMBLK-08252023** Units: **mg/L** Analysis Date: **25-Aug-2023 12:35**
Client ID: Run ID: **Balance1_444849** SeqNo: **7509910** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	1.00	2.00								U

LCS Sample ID: **LCS-08252023** Units: **mg/L** Analysis Date: **25-Aug-2023 12:35**
Client ID: Run ID: **Balance1_444849** SeqNo: **7509908** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	44.7	2.00	40	0	112	78 - 114				

LCSD Sample ID: **LCSD-08252023** Units: **mg/L** Analysis Date: **25-Aug-2023 12:35**
Client ID: Run ID: **Balance1_444849** SeqNo: **7509909** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43.6	2.00	40	0	109	78 - 114	44.7	2.49	18	

MS Sample ID: **HS23081269-01MS** Units: **mg/L** Analysis Date: **25-Aug-2023 12:35**
Client ID: Run ID: **Balance1_444849** SeqNo: **7509898** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43	2.00	40	1.176	105	78 - 114				

The following samples were analyzed in this batch: HS23081076-01

ALS Houston, US Date: 29-Aug-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: **HS23081076**

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

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 29-Aug-23

Sample Receipt Checklist

Work Order ID: HS23081076 **Date/Time Received:** 17-Aug-2023 09:50

Client Name: Bhate Environmental **Received by:** Malcolm Burleson

Completed By:	/S/ Belinda Gomez	17-Aug-2023 18:13	**Reviewed by:**	/S/ Nieka.Carson	18-Aug-2023 09:35
	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 ☐	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):	3.6uc/3.5c	ir31
Cooler(s)/Kit(s):	49972	
Date/Time sample(s) sent to storage:	08/17/23 1815	

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:

HS23081076

CHAIN OF CUSTODY

Bhate Environmental Associates, Inc.
Groundwater Treatment Plant Quarterly Effluent Sar

Name Of Lab Shipping To: ALS 10450 Stancliff Rd., Suite 210 Houston, Tx. 77099 ATTN: Dane Wacasey
1

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT QUARTERLY EFFLUENT SAMPLES**	
Prepared By: Scott Beesinger	P. O. Number

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyse: ROD Volatiles	Total Metals	Oil & Grease	Chemical Oxygen Demand	Chloride & Sulfate	1, 4 - DIOXANE	PERCHLORATE				Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_081623	Water	08/16/23 / 13:00		4	3		1								HCL	
LH18/24-SP650_081623	Water	08/16/23 / 13:00		1		1									HNO3	
LH18/24-SP650_081623	Water	08/16/23 / 13:00		2					1	1					NONE	
LH18/24-SP650_081623	Water	08/16/23 / 13:00		1				1							H2SO4	
LH18/24-SP650_081623_AIX	Water	08/16/23 / 13:00		1							1				NONE	
Trip Blank	Water	08/16/23		2	2										HCL	

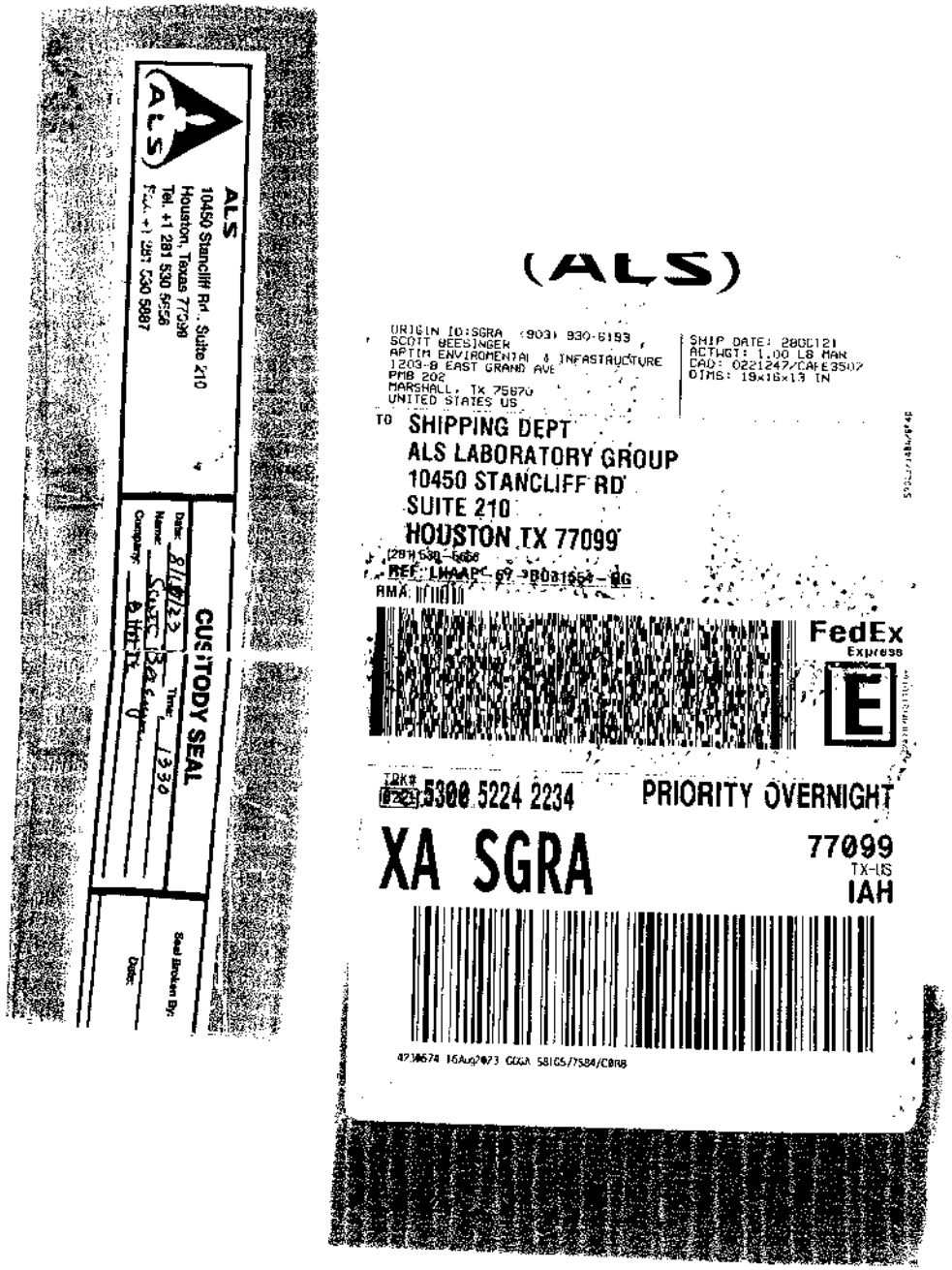
Additional Remarks: **Standard TAT**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	08/16/23	13:30		08/17/2023	0950						

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition
									1R31

Remarks: 49972 3.6wc -0.1c



ALS
10450 Stancliff Rd. Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax +1 281 530 5887

CUSTODY SEAL
Date: 8/16/12
Name: Scott Beesinger
Company: ALS Houston
Time: 1330
Seal Broken By:
Date:

(ALS)

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINGER
APTIM ENVIROMENTAL & INFASTRUCTURE
1209-B EAST GRAND AVE
PMB 202
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 28DC12I
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3502
DIMS: 19x16x13 IN

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LHAAPC 69 PB031654-BG
RMA:

FedEx Express

TRK# 5300 5224 2234
PRIORITY OVERNIGHT

XA SGRA
77099
TX-US
IAH

4710674 16Aug2012 GGGA 58105/7584/C0RB

August 21, 2023 Service Request No:E2300745

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: Perchlorates

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory August 17, 2023
For your reference, these analyses have been assigned our service request number **E2300745.**

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 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental



James Guin

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

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300745
Project:	Perchlorates	**Date Received:**	08/17/23
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 II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 08/17/23

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300403: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) sample was analyzed and reported in lieu of a MS/MSD for this extraction batch.

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:**E2300745
Project: Perchlorates

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300745-001	LH18/24-SP650	8/16/2023	1300

Service Request Summary

Folder #: **E2300745**
Client Name: ALS Environmental - US
Project Name: Perchlorates
Project Number:

Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: TWOODS
Date Received: 08/17/23
Internal Due Date: 9/1/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300745-001	LH18/24-SP650	Water	08/16/23 1300	**IV**

Service Request Summary

Folder #: **E2300745**
Client Name: ALS Environmental - US
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QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
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
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L22-90	3/31/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
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	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-22	11/14/2023

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

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Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Colorado** **COC ID:** **22759**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS23081076
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23081076-02**	**LH18/24-SP650_081623_AIX**	**Water**	**16 Aug 2023 13:00**
	6850-Perch. DOD Level II & Level IV In separate pdf			28 Aug 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

E2300745 5
ALS Laboratory Group
Perchlorates

Relinquished By: NR Date/Time:

Received By: CS Date/Time: 8-17-23 1247

Cooler ID(s): Temperature(s):

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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#: 424977 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 8/17/23 13:11

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300744-001	LH18/24-SP650_081623_Between IX	.01	6850/ClO4 DOD			Water	10mL	
2	E2300744-002	LH18/24-SP650_081623_AIX	.01	6850/ClO4 DOD			Water	10mL	
3	E2300744-003	LH18/24-SP650_081623_BIX	.01	6850/ClO4 DOD			Water	10mL	
4	E2300745-001	LH18/24-SP650	.01	6850/ClO4 DOD			Water	10mL	
5	E2300746-001	LH18/24-SP140	.01	6850/ClO4 DOD			Water	10mL	
6	EQ2300403-01	MB		6850/ClO4			Liquid	10mL	
7	EQ2300403-02	LCS		6850/ClO4			Liquid	10mL	
8	EQ2300403-03	DLCS		6850/ClO4			Liquid	10mL	
9	K2309094-001	LGAC-INF-081423	.01	6850/ClO4			Water	10mL	
10	K2309094-002	LGAC-INT1-081423	.01	6850/ClO4			Water	10mL	
11	K2309094-003	LGAC-INT2-081423	.01	6850/ClO4			Water	10mL	
12	R2307250-005	2308071435B BLM-32-571	.01	6850/ClO4			Water	10mL	
13	R2307250-011	2308081426B BLM-32-632	.01	6850/ClO4			Water	10mL	
14	R2307325-004	2308100948A PL-12-570	.01	6850/ClO4			Water	10mL	
15	R2307325-009	2308101419A PL-12-800	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 230342 Logbook Ref: Perchlorate (1st Source) Expires On: 03/07/2024

EQ2300403-02	1.00µL	EQ2300403-02	1.00µL	EQ2300403-03	1.00µL	EQ2300403-03	1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 230372 Logbook Ref: Perchlorate Internal Standard Expires On: 04/30/2024

E2300744-001	100.00µL	E2300744-002	100.00µL	E2300744-003	100.00µL	E2300745-001	100.00µL	E2300746-001	100.00µL	EQ2300403-01	100.00µL
EQ2300403-01	100.00µL	EQ2300403-02	100.00µL	EQ2300403-02	100.00µL	EQ2300403-03	100.00µL	EQ2300403-03	100.00µL	K2309094-001	100.00µL
K2309094-002	100.00µL	K2309094-003	100.00µL	R2307250-005	100.00µL	R2307250-011	100.00µL	R2307325-004	100.00µL	R2307325-009	100.00µL

Preparation Materials

Water HPLC Grade	HPLC water 5/18/23CG (229315)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 Luer-Lok Syringes	Luer-Lok Syringes (228117)
6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)				

Preparation Steps

Step: Preparation
Started: 8/17/23 13:11
Finished: 8/18/23 08:38
By: XMI
Comments

Preparation Information Benchsheet

Prep Run#: 424977
Team: Semivoa GCMS/XMI

Prep WorkFlow: GenExt28Day
Prep Method: Method

Status: Prepped
Prep Date/Time: 8/17/23 13:11

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:**	E2300745
Project:	Perchlorates	**Date Collected:**	8/16/23 1300
Sample Matrix:	Water	**Date Received:**	8/17/23
Sample Name:	LH18/24-SP650	**Units:**	µg/L
Lab Code:	E2300745-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.293**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 11:45	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300745
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300403-01	**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	8/17/23	8/18/23 09:00	424977	814330	

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
Project: Perchlorates
Sample Matrix: Water

Service Request: E2300745
Date Analyzed: 8/18/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 424977

	Lab Control Sample EQ2300403-02			Duplicate Lab Control Sample EQ2300403-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.114	0.100	114	0.102	0.100	102	84 - 119	11	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300745
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300403-02	**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	**0.114**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:06	424977	814330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300745
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300403-03	**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	**0.102**		0.100	0.0500	0.0250	1	8/17/23	8/18/23 09:11	424977	814330	

HS23081076-MSVOA-SW8260

ALS WO# HS23081076

01251158

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

Volatiles by EPA Volatiles Organics by Method 8260C

HS23081076-01	Collected	Received	Matrix	Basis
LH18/24-SP650_081623	08/16/23 13:00	08/17/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	08/21/23 18:14	VOA6_444516	X082128.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
2-Hexanone	ug/L	3.3		1.0	2.0	2.0	1	08/21/23 18:14	VOA6_444516	X082128.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

Volatiles by EPA Volatiles Organics by Method 8260C

HS23081076-01 | **Collected** | **Received** | **Matrix** | **Basis**

LH18/24-SP650_081623 | 08/16/23 13:00 | 08/17/23 09:50 | Water | Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
cis-1,2-Dichloroethene	ug/L	3.1		0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.10	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D
Vinyl chloride	ug/L	0.80	J	0.20	1.0	1.0	1	08/21/23 18:14	VOA6_444516	X082128.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

Volatiles by EPA Volatiles Organics by Method 8260C

HS23081076-03

Trip Blank

Collected	Received	Matrix	Basis
08/16/23 13:00	08/17/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	08/21/23 17:54	VOA6_444516	X082127.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	08/21/23 17:54	VOA6_444516	X082127.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

Volatiles by EPA Volatiles Organics by Method 8260C

HS23081076-03 | **Collected** | **Received** | **Matrix** | **Basis**

Trip Blank | 08/16/23 13:00 | 08/17/23 09:50 | Water | Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.10	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 17:54	VOA6_444516	X082127.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

Volatiles by EPA Volatiles Organics by Method 8260C

VBLKW-230821	Collected	Received	Matrix	Basis
VBLKW-230821	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

Volatiles by EPA Volatiles Organics by Method 8260C

VBLKW-230821	Collected	Received	Matrix	Basis
VBLKW-230821	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	08/21/23 10:14	VOA6_444516	X082107.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

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.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	HS23081076	

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6-444516

CCV-CCV	Analyzed	Conc Units	Dilution
CCV	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.42	50	101		80-120
4-Bromofluorobenzene	51.56	50	103		80-120
Dibromofluoromethane	52.15	50	104		80-120
Toluene-d8	48.62	50	97.2		80-120

HS23081076-01	Analyzed	Conc Units	Dilution
LH18/24-SP650_081623	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52	50	104		81-118
4-Bromofluorobenzene	45	50	90.4		85-114
Dibromofluoromethane	51	50	102		80-119
Toluene-d8	53	50	106		89-112

HS23081076-03	Analyzed	Conc Units	Dilution
Trip Blank	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	52	50	104		81-118
4-Bromofluorobenzene	44	50	88.0		85-114
Dibromofluoromethane	52	50	103		80-119
Toluene-d8	53	50	106		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	HS23081076	

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6-444516

HS23081216-13MS	Analyzed	Conc Units	Dilution
BatchQC	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.41	50	101		81-118
4-Bromofluorobenzene	47.21	50	94.4		85-114
Dibromofluoromethane	52.15	50	104		80-119
Toluene-d8	52.14	50	104		89-112

HS23081216-13MSD	Analyzed	Conc Units	Dilution
BatchQC	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.56	50	101		81-118
4-Bromofluorobenzene	47.12	50	94.2		85-114
Dibromofluoromethane	51.84	50	104		80-119
Toluene-d8	51.04	50	102		89-112

VBLKW-230821	Analyzed	Conc Units	Dilution
VBLKW-230821	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	50.59	50	101		81-118
4-Bromofluorobenzene	45.42	50	90.8		85-114
Dibromofluoromethane	51.32	50	103		80-119
Toluene-d8	51.92	50	104		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	**HS23081076**	

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6-444516

VLCSW-230821	Analyzed	Conc Units	Dilution
VLCSW-230821	08/21/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	49.59	50	99.2		81-118
4-Bromofluorobenzene	50.38	50	101		85-114
Dibromofluoromethane	51.52	50	103		80-119
Toluene-d8	48.01	50	96.0		89-112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

RunID VOA6-444516

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS23081216-13)				HS23081216-13MS				HS23081216-13MSD						
Sample Matrix: Aqueous			Run Date	08/21/23				08/21/23						
Result Units: ug/L			Run Time	15:51				16:11						
			Data File	X082121.D				X082122.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	21.26	20	106		19.62	20	98		20	8.01	
1,1,1-Trichloroethane	74-131	1	0	21.05	20	105		20.62	20	103		20	2.04	
1,1,2,2-Tetrachloroethane	71-121	1	0	19.51	20	98		17.87	20	89		20	8.73	
1,1,2-Trichloroethane	80-119	1	0	20.95	20	105		19.89	20	99		20	5.22	
1,1-Dichloroethane	77-125	1	0	18.57	20	93		17.93	20	90		20	3.52	
1,1-Dichloroethene	71-131	1	0	20.48	20	102		19.99	20	100		20	2.41	
1,1-Dichloropropene	78-125	1	0	22.51	20	113		21.18	20	106		20	6.07	
1,2,3-Trichlorobenzene	69-129	1	0	20.15	20	101		18.96	20	95		20	6.11	
1,2,3-Trichloropropane	73-122	1	0	27.17	20	136		26.3	20	131		20	3.25	
1,2,4-Trichlorobenzene	69-130	1	0	21.36	20	107		19.34	20	97		20	9.94	
1,2,4-Trimethylbenzene	76-124	1	0	22.36	20	112		19.95	20	100		20	11.4	
1,2-Dibromo-3-chloropropane	62-128	1	0	18.55	20	93		17.52	20	88		20	5.73	
1,2-Dibromoethane	77-121	1	0	21.1	20	106		19.83	20	99		20	6.2	
1,2-Dichlorobenzene	80-119	1	0	21.09	20	105		18.92	20	95		20	10.9	
1,2-Dichloroethane	73-128	1	0	19.46	20	97		18.73	20	94		20	3.78	
1,2-Dichloropropane	78-122	1	0	19.07	20	95		18.94	20	95		20	0.686	
1,3,5-Trimethylbenzene	75-124	1	0	22.73	20	114		20.45	20	102		20	10.5	
1,3-Dichlorobenzene	80-119	1	0	21.72	20	109		19.9	20	100		20	8.75	
1,3-Dichloropropane	80-119	1	0	20.48	20	102		19.22	20	96		20	6.32	
1,4-Dichlorobenzene	79-118	1	0	21.93	20	110		20.14	20	101		20	8.5	
2,2-Dichloropropane	60-139	1	0	20.15	20	101		18.97	20	95		20	6.01	
2-Butanone	56-143	1	0	29.97	40	75		32.77	40	82		20	8.9	
2-Chlorotoluene	79-122	1	0	22.32	20	112		19.94	20	100		20	11.3	
2-Hexanone	57-139	1	0	36.91	40	92		36.44	40	91		20	1.28	
4-Chlorotoluene	78-122	1	0	22.35	20	112		20.14	20	101		20	10.4	
4-Isopropyltoluene	77-127	1	0	23.75	20	119		21.67	20	108		20	9.15	
4-Methyl-2-pentanone	67-130	1	0	38.07	40	95		36.18	40	90		20	5.1	
Acetone	39-160	1	0	33.05	40	83		31.74	40	79		20	4.03	
Benzene	79-120	1	0	21.18	20	106		19.88	20	99		20	6.35	
Bromobenzene	80-120	1	0	21.84	20	109		19.78	20	99		20	9.93	
Bromochloromethane	78-123	1	0	19.27	20	96		18.28	20	91		20	5.25	
Bromodichloromethane	79-125	1	0	19.68	20	98		18.56	20	93		20	5.84	
Bromoform	66-130	1	0	20.6	20	103		19.35	20	97		20	6.22	
Bromomethane	53-141	1	0	18.46	20	92		17.92	20	90		20	2.97	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

RunID VOA6-444516

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS23081216-13)				HS23081216-13MS				HS23081216-13MSD						
Sample Matrix Aqueous			**Run Date**	08/21/23				08/21/23						
Result Units ug/L			**Run Time**	15:51				16:11						
			Data File	X082121.D				X082122.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	40.9	40	102		38.64	40	97		20	5.68	
Carbon tetrachloride	72-136	1	0	22.4	20	112		21.47	20	107		20	4.22	
Chlorobenzene	82-118	1	0	21.28	20	106		19.99	20	100		20	6.26	
Chloroethane	60-138	1	0	20.36	20	102		18.59	20	93		20	9.08	
Chloroform	79-124	1	0	19.4	20	97		18.56	20	93		20	4.39	
Chloromethane	50-139	1	0	18.4	20	92		18.39	20	92		20	0.0629	
cis-1,2-Dichloroethene	78-123	1	0	19.73	20	99		19.01	20	95		20	3.7	
cis-1,3-Dichloropropene	75-124	1	0	19.82	20	99		18.71	20	94		20	5.72	
Dibromochloromethane	74-126	1	0	20.55	20	103		19.32	20	97		20	6.19	
Dibromomethane	79-123	1	0	19.19	20	96		18.84	20	94		20	1.86	
Dichlorodifluoromethane	32-152	1	0	21.29	20	106		20.42	20	102		20	4.18	
Ethylbenzene	79-121	1	0	22.62	20	113		21.1	20	106		20	6.95	
Hexachlorobutadiene	66-134	1	0	30.37	20	152		28.43	20	142		20	6.62	
Isopropylbenzene	72-131	1	0	23.39	20	117		21.63	20	108		20	7.82	
m,p-Xylene	80-121	1	0	44.82	40	112		42.04	40	105		20	6.4	
Methylene chloride	74-124	1	0	18.27	20	91		17.67	20	88		20	3.38	
Naphthalene	61-128	1	0	18.89	20	94		17.91	20	90		20	5.31	
n-Butylbenzene	75-128	1	0	22.72	20	114		20.58	20	103		20	9.87	
n-Propylbenzene	76-126	1	0	24.08	20	120		21.69	20	108		20	10.5	
o-Xylene	78-122	1	0	21.94	20	110		20.36	20	102		20	7.46	
sec-Butylbenzene	77-126	1	0	24.81	20	124		22.3	20	112		20	10.6	
Styrene	78-123	1	0	22.11	20	111		20.2	20	101		20	9.04	
tert-Butylbenzene	78-124	1	0	24.13	20	121		21.69	20	108		20	10.6	
Tetrachloroethene	74-129	1	0	24.39	20	122		22.42	20	112		20	8.41	
Toluene	80-121	1	0	21.59	20	108		20.02	20	100		20	7.55	
trans-1,2-Dichloroethene	75-124	1	0	19.47	20	97		18.66	20	93		20	4.28	
trans-1,3-Dichloropropene	73-127	1	0	18.36	20	92		18.08	20	90		20	1.55	
Trichloroethene	79-123	1	0	21.85	20	109		20.89	20	104		20	4.49	
Trichlorofluoromethane	65-141	1	0	21.82	20	109		20.97	20	105		20	3.95	
Vinyl chloride	58-137	1	0	21.07	20	105		20.12	20	101		20	4.62	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

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 Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

SAMPLENUM VLCSW-230821

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6_444516			VLCSW-230821			
Spike Matrix	Aqueous	**Run Date**	08/21/23			
Result Units	ug/L	**Run Time**	09:33			
		Data File	X082105.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
1,1,1,2-Tetrachloroethane	78-124	20	20.97	105		
1,1,1-Trichloroethane	74-131	20	22	110		
1,1,2,2-Tetrachloroethane	71-121	20	19.15	95.8		
1,1,2-Trichloroethane	80-119	20	19.99	99.9		
1,1-Dichloroethane	77-125	20	18.81	94.1		
1,1-Dichloroethene	71-131	20	20.23	101		
1,1-Dichloropropene	78-125	20	22.34	112		
1,2,3-Trichlorobenzene	69-129	20	20.6	103		
1,2,3-Trichloropropane	73-122	20	19.58	97.9		
1,2,4-Trichlorobenzene	69-130	20	21.29	106		
1,2,4-Trimethylbenzene	76-124	20	21.51	108		
1,2-Dibromo-3-chloropropane	62-128	20	19.6	98.0		
1,2-Dibromoethane	77-121	20	19.89	99.4		
1,2-Dichlorobenzene	80-119	20	20.59	103		
1,2-Dichloroethane	73-128	20	19.49	97.5		
1,2-Dichloropropane	78-122	20	19.41	97.1		
1,3,5-Trimethylbenzene	75-124	20	21.99	110		
1,3-Dichlorobenzene	80-119	20	21.33	107		
1,3-Dichloropropane	80-119	20	19.7	98.5		
1,4-Dichlorobenzene	79-118	20	21.12	106		
2,2-Dichloropropane	60-139	20	21.52	108		
2-Butanone	56-143	40	36.88	92.2		
2-Chlorotoluene	79-122	20	21.28	106		
2-Hexanone	57-139	40	38.55	96.4		
4-Chlorotoluene	78-122	20	21.3	107		
4-Isopropyltoluene	77-127	20	23.02	115		
4-Methyl-2-pentanone	67-130	40	37.25	93.1		
Acetone	39-160	40	46.33	116		
Benzene	79-120	20	20.58	103		
Bromobenzene	80-120	20	21.06	105		
Bromochloromethane	78-123	20	19.93	99.6		
Bromodichloromethane	79-125	20	20.14	101		
Bromoform	66-130	20	21.06	105		
Bromomethane	53-141	20	19.37	96.8		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

SAMPLENUM VLCSW-230821

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6_444516			VLCSW-230821			
Spike Matrix	Aqueous	**Run Date**	08/21/23			
Result Units	ug/L	**Run Time**	09:33			
		Data File	X082105.D			
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	
Carbon disulfide	64-133	40	40.25	101		
Carbon tetrachloride	72-136	20	22.46	112		
Chlorobenzene	82-118	20	20.55	103		
Chloroethane	60-138	20	19.86	99.3		
Chloroform	79-124	20	19.98	99.9		
Chloromethane	50-139	20	19.99	100.0		
cis-1,2-Dichloroethene	78-123	20	20.71	104		
cis-1,3-Dichloropropene	75-124	20	20.07	100		
Dibromochloromethane	74-126	20	20.61	103		
Dibromomethane	79-123	20	19.4	97.0		
Dichlorodifluoromethane	32-152	20	21.29	106		
Ethylbenzene	79-121	20	21.78	109		
Hexachlorobutadiene	66-134	20	31.98	160		
Isopropylbenzene	72-131	20	21.93	110		
m,p-Xylene	80-121	40	43.38	108		
Methylene chloride	74-124	20	19.08	95.4		
Naphthalene	61-128	20	18.88	94.4		
n-Butylbenzene	75-128	20	22.38	112		
n-Propylbenzene	76-126	20	23.15	116		
o-Xylene	78-122	20	20.8	104		
sec-Butylbenzene	77-126	20	23.72	119		
Styrene	78-123	20	21.46	107		
tert-Butylbenzene	78-124	20	23.1	115		
Tetrachloroethene	74-129	20	22.67	113		
Toluene	80-121	20	20.68	103		
trans-1,2-Dichloroethene	75-124	20	19.69	98.5		
trans-1,3-Dichloropropene	73-127	20	19.3	96.5		
Trichloroethene	79-123	20	20.85	104		
Trichlorofluoromethane	65-141	20	21.41	107		
Vinyl chloride	58-137	20	20.42	102		

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

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 Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

Volatiles by EPA Volatiles Organics by Method 8260C

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230821	X082107.D	08/21/23 10:14	VOA6_444516
VLCSW-230821	LCS	VLCSW-230821	X082105.D	08/21/23 09:33	VOA6_444516
BatchQC	MS	HS23081216-13MS	X082121.D	08/21/23 15:51	VOA6_444516
BatchQC	MSD	HS23081216-13MSD	X082122.D	08/21/23 16:11	VOA6_444516
Trip Blank	SAMP	HS23081076-03	X082127.D	08/21/23 17:54	VOA6_444516
LH18/24-SP650_081623	SAMP	HS23081076-01	X082128.D	08/21/23 18:14	VOA6_444516

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

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Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

RunID VOA6-443843

Volatiles by EPA Volatiles Organics by Method 8260C

Tune File X081101.D 08/11/23 8/11/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	21.9 (21.9)
75	30.0 - 60.0% of mass 95	53.6 (53.6)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.7 (6.67)
173	Less than 2.0% of mass 174	1.1 (1.2) 1
174	50.0 - 120.0% of mass 95	89.8 (89.8)
175	4.0 - 9.0% of mass 174	7.4 (8.29) 1
176	93.0 - 101.0% of mass 174	87.4 (97.3) 1
177	5.0 - 9.0% of mass 176	6.1 (6.98) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD000.25	ICAL1	8/11/2023	X081102	VSTD000.25
2	VSTD000.5	ICAL2	8/11/2023	X081103	VSTD000.5
3	VSTD001	ICAL3	8/11/2023	X081104	VSTD001
4	VSTD002	ICAL4	8/11/2023	X081105	VSTD002
5	VSTD005	ICAL5	8/11/2023	X081106	VSTD005
6	VSTD020	ICAL6	8/11/2023	X081107	VSTD020
7	VSTD050	ICAL7	8/11/2023	X081108	VSTD050
8	VSTD100	ICAL8	8/11/2023	X081109	VSTD100
9	VSTD150	ICAL9	8/11/2023	X081110	VSTD150
10	VSTD200	ICAL	8/11/2023	X081111	VSTD200
11	CCV	ICV	8/11/2023	X081113	CCV

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	**HS23081076**	

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6-444516

Tune File X082101.D 08/21/23 8/21/2023

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	22.7 (22.7)
75	30.0 - 60.0% of mass 95	51.6 (51.6)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.4 (7.45)
173	Less than 2.0% of mass 174	0.5 (0.527) 1
174	50.0 - 120.0% of mass 95	89.9 (89.9)
175	4.0 - 9.0% of mass 174	6.7 (7.4) 1
176	93.0 - 101.0% of mass 174	87.9 (97.8) 1
177	5.0 - 9.0% of mass 176	5.1 (5.84) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	CCV	8/21/2023	X082103	CCV
2	VLCSW-	LCS	8/21/2023	X082105	VLCSW-230821
3	VBLKW-	MBLK	8/21/2023	X082107	VBLKW-230821
4	HS23081216-	MS	8/21/2023	X082121	ZZZZZZMS
5	HS23081216-	MSD	8/21/2023	X082122	ZZZZZZMSD
6	HS23081076-	SAMP	8/21/2023	X082127	Trip Blank
7	HS23081076-	SAMP	8/21/2023	X082128	LH18/24-SP650_081623
8	CCV_END	CCV_EN	8/21/2023	X082131	CCV_END

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Form 6

Initial Calibration Data

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133
ICAL End Date 11-AUG-2023 1457

Calibration Files

Level 1 ..target\chem\voa6.i\x230811.b\x081102.d
Level 2 ..target\chem\voa6.i\x230811.b\x081103.d
Level 3 ..target\chem\voa6.i\x230811.b\x081104.d
Level 4 ..target\chem\voa6.i\x230811.b\x081105.d
Level 5 ..target\chem\voa6.i\x230811.b\x081106.d
Level 6 ..target\chem\voa6.i\x230811.b\x081107.d
Level 7 ..target\chem\voa6.i\x230811.b\x081108.d
Level 8 ..target\chem\voa6.i\x230811.b\x081109.d
Level 9 ..target\chem\voa6.i\x230811.b\x081110.d
Level 10 target\chem\voa6.i\x230811.b\x081111.d

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Dichlorodifluoromethane	NE 255633	3407 619342	4328 959873	11597 1273733	27672	99620	LINR	0.01337	0.46460		0.99850	
Chloromethane	NE 0.40302	0.57405 0.48018	0.52500 0.50465	0.47096 0.53834	0.46477	0.41794	AVRG		0.48655		11.39424	
Propionitrile	NE 0.07074	0.06787 0.07205	0.07292 0.07170	0.06349 0.07228	0.06817	0.06745	AVRG		0.06963		4.45118	
Vinyl Chloride	NE 0.55667	0.72606 0.61855	0.56186 0.60253	0.60489 0.58278	0.58952	0.55465	AVRG		0.59972		8.75575	
Bromomethane	NE 0.27995	0.35231 0.31382	0.37627 0.32529	0.33070 0.34286	0.30591	0.27830	AVRG		0.32283		10.02785	
Chloroethane	NE 0.36414	0.45634 0.38031	0.43284 0.35909	0.41782 0.35077	0.40656	0.36978	AVRG		0.39307		9.37589	
Trichlorofluoromethane	NE 0.75325	1.10623 0.89244	0.76877 0.85600	0.84856 0.81997	0.85815	0.77853	AVRG		0.85354		12.38612	
Acrolein	NE 22472	323 42571	463 67360	887 87268	2218	7342	LINR	-0.05489	0.01595		0.99825	
Acetone	NE 247355	8080 518775	9915 740284	14349 1042142	31794	100132	LINR	-0.09194	0.18484		0.99800	
1,1-Dichloroethene	NE 0.43569	0.56284 0.48537	0.48932 0.46481	0.51676 0.44882	0.49398	0.44755	AVRG		0.48279		8.24421	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Isobutyl Alcohol	NE 0.07652	0.08412 0.07931	0.07401 0.07954	0.07762 0.08132	0.07584	0.07709	AVRG		0.07838		3.90627	
Acetonitrile	NE 0.07456	0.07300 0.07466	0.08481 0.07260	0.08801 0.07232	0.07971	0.07431	AVRG		0.07711		7.47057	
Allyl Chloride	NE 1.44176	1.69809 1.43490	1.64719 1.38774	1.69303 1.37516	1.61564	1.41555	AVRG		1.52323		8.97832	
Iodomethane	NE 646092	2898 1612228	5195 2614120	9663 3724033	31977	171922	QUAD	0.11120	1.71280	-0.04510	0.99848	
Acrylonitrile	NE 0.22137	0.24952 0.22377	0.24284 0.21854	0.24432 0.21551	0.25192	0.22541	AVRG		0.23258		6.16962	
Methylene Chloride	NE 0.56122	0.64115 0.54894	0.71364 0.51621	0.63887 0.51110	0.71498	0.60296	AVRG		0.60545		12.80901	
Methyl tert-butyl ether	NE 1.65215	1.97638 1.61767	1.87864 1.59510	1.78399 1.58849	1.77267	1.63417	AVRG		1.72214		8.03192	
Carbon Disulfide	NE 1.34724	1.48863 1.47632	1.44347 1.42960	1.48106 1.39624	1.47715	1.35583	AVRG		1.43284		3.82349	
trans-1,2-Dichloroethene	NE 0.52456	0.63439 0.54249	0.61656 0.52259	0.56699 0.51339	0.58807	0.54041	AVRG		0.56105		7.73785	
Vinyl Acetate	NE 1.64724	1.83435 1.68753	1.67683 1.65594	1.52797 1.65375	1.61303	1.63980	AVRG		1.65961		4.84390	
1,1-Dichloroethane	NE 0.98414	1.21108 0.99880	1.23422 0.94407	1.13098 0.93091	1.06669	1.00863	AVRG		1.05661		10.60256	
Chloroprene	NE 0.18511	0.24053 0.21791	0.22398 0.21096	0.21746 0.20023	0.21465	0.19285	AVRG		0.21152		7.94039	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	0.250 Level 1	0.500 Level 2	1.00 Level 3	2.00 Level 4	5.00 Level 5	20.00 Level 6	50.00 Level 7	100.00 Level 8	150.00 Level 9	200.00 Level 10	Curve	b	m1	m2	%RSD or R2	Q
2-Butanone	NE	0.16626	0.17705	0.17177	0.18179	0.16529										
	0.19090	0.20804	0.19986	0.20476							AVRG		0.18508		8.88859	
Methacrylonitrile	NE	0.53696	0.48185	0.47953	0.50962	0.48295										
	0.48682	0.50767	0.50221	0.50039							AVRG		0.49867		3.69719	
2,2-Dichloropropane	NE	4612	9399	17055	43583	162441										
	420039	949589	1464683	1951668							LINR	-0.00034	0.70909		0.99916	
cis-1,2-Dichloroethene	NE	0.58922	0.54283	0.50439	0.55456	0.53181										
	0.52504	0.54660	0.52807	0.52661							AVRG		0.53879		4.42802	
Chloroform	NE	0.94895	0.99572	0.96143	0.96651	0.90377										
	0.88361	0.91936	0.88022	0.87517							AVRG		0.92608		4.72192	
Bromochloromethane	NE	0.30862	0.37772	0.31678	0.30706	0.29309										
	0.28903	0.29941	0.28783	0.27712							AVRG		0.30629		9.60862	
1,1,1-Trichloroethane	NE	0.79991	0.67228	0.70847	0.76754	0.71836										
	0.70525	0.79429	0.77108	0.75445							AVRG		0.74351		5.94209	
1,1-Dichloropropene	NE	0.44123	0.35374	0.38325	0.36402	0.37247										
	0.35874	0.42677	0.42631	0.41429							AVRG		0.39342		8.57192	
1,2-Dichloroethane	NE	0.52772	0.52519	0.45791	0.48129	0.45673										
	0.44581	0.46238	0.46248	0.45826							AVRG		0.47531		6.40385	
Carbon Tetrachloride	NE	0.47967	0.39978	0.40393	0.43067	0.36764										
	0.35954	0.43348	0.44098	0.42221							AVRG		0.41532		8.99651	
Benzene	NE	1.38413	1.27200	1.17750	1.24217	1.17492										
	1.15436	1.23319	1.23296	1.21280							AVRG		1.23156		5.55716	
Trichloroethene	NE	0.40599	0.34534	0.34459	0.35435	0.33246										
	0.32756	0.35784	0.36244	0.35492							AVRG		0.35394		6.40889	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Bromodichloromethane	NE 0.42912	0.53776 0.45138	0.49960 0.44887	0.42015 0.45134	0.45657	0.43323	AVRG		0.45867		8.13672	
Methyl Methacrylate	NE 0.45708	0.46821 0.47469	0.46970 0.46852	0.43319 0.47446	0.45468	0.43984	AVRG		0.46004		3.27954	
2-Chloroethylvinyl ether	NE 0.10527	0.13044 0.11857	0.12050 0.11999	0.12280 0.12146	0.11033	0.10670	AVRG		0.11734		7.03256	
1,2-Dichloropropane	NE 0.32291	0.41261 0.34183	0.36231 0.34389	0.33070 0.34368	0.34126	0.32613	AVRG		0.34726		7.82046	
2-Nitropropane	NE 0.16504	0.19619 0.18033	0.20580 0.17879	0.19631 0.18450	0.18445	0.16142	AVRG		0.18365		7.90215	
Dibromomethane	NE 0.21505	0.27102 0.22287	0.28256 0.22326	0.23327 0.22465	0.24153	0.22164	AVRG		0.23732		10.02170	
4-Methyl-2-Pentanone	NE 0.33755	0.37287 0.35276	0.36808 0.35896	0.38125 0.36361	0.34499	0.34783	AVRG		0.35866		3.95589	
cis-1,3-Dichloropropene	NE 0.49701	0.60888 0.54096	0.51488 0.54667	0.47545 0.55656	0.48634	0.49691	AVRG		0.52485		8.07803	
Ethyl Methacrylate	NE 0.43754	0.47636 0.46383	0.47511 0.47685	0.44432 0.48333	0.42713	0.43820	AVRG		0.45808		4.63830	
Toluene	NE 1.30542	1.58762 1.39612	1.45153 1.40769	1.29669 1.38932	1.38586	1.31867	AVRG		1.39321		6.42306	
trans-1,3-Dichloropropene	NE 0.41239	0.51608 0.45869	0.41702 0.46634	0.40845 0.47803	0.40096	0.40651	AVRG		0.44050		9.22391	
2-Hexanone	NE 0.22991	0.23756 0.23902	0.24514 0.24226	0.24516 0.25074	0.23798	0.23897	AVRG		0.24075		2.46712	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
1,1,2-Trichloroethane	NE 0.26299	0.30480 0.27255	0.28308 0.27293	0.27202 0.27412	0.28463	0.27234	AVRG		0.27772		4.31956	
1,3-Dichloropropane	NE 0.53265	0.64521 0.54426	0.63134 0.55126	0.54276 0.55377	0.56859	0.53964	AVRG		0.56772		7.29205	
Dibromochloromethane	NE 0.39604	0.42562 0.40981	0.40064 0.41415	0.37380 0.41796	0.38120	0.38806	AVRG		0.40081		4.38226	
Tetrachloroethene	NE 0.26579	0.32145 0.31165	0.27810 0.31659	0.25034 0.30175	0.28769	0.27284	AVRG		0.28958		8.54849	
1,2-Dibromoethane	NE 0.32798	0.36532 0.33179	0.33937 0.33669	0.33095 0.33988	0.34531	0.33603	AVRG		0.33926		3.27108	
1-Chlorohexane	NE 0.25100	0.30188 0.31383	0.31158 0.32140	0.27315 0.31291	0.27363	0.24424	AVRG		0.28929		10.11307	
Chlorobenzene	NE 0.90541	1.10534 0.95312	0.97241 0.96654	0.90938 0.96446	0.95264	0.91060	AVRG		0.95999		6.31738	
1,1,1,2-Tetrachloroethane	NE 0.35585	0.40402 0.38079	0.35426 0.38526	0.35087 0.38535	0.36062	0.36038	AVRG		0.37082		4.98176	
Ethylbenzene	NE 0.45055	0.53905 0.48903	0.45245 0.48823	0.42306 0.48059	0.48308	0.46077	AVRG		0.47409		6.90368	
m,p-Xylenes	NE 0.58130	0.68357 0.62807	0.56743 0.64071	0.54293 0.62674	0.60154	0.58590	AVRG		0.60647		7.05323	
o-Xylene	NE 0.55705	0.65150 0.60406	0.62675 0.61436	0.56336 0.61385	0.57393	0.57386	AVRG		0.59764		5.38384	
Styrene	NE 0.99646	1.04658 1.04857	0.86091 1.08065	0.85907 1.08017	0.98330	0.98879	AVRG		0.99383		8.47428	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	0.250 Level 1	0.500 Level 2	1.00 Level 3	2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
	50.00 Level 7	100.00 Level 8	150.00 Level 9	200.00 Level 10								
Bromoform	NE	0.25707	0.24044	0.24432	0.23803	0.26583						
	0.26853	0.29618	0.30934	0.31415			AVRG		0.27043		10.87778	
Isopropylbenzene	NE	1.80622	1.32978	1.28653	1.41994	1.40919						
	1.37150	1.56611	1.60724	1.56968			AVRG		1.48513		11.12077	
1,1,2,2-Tetrachloroethane	NE	0.92909	0.86394	0.87075	0.78812	0.78941						
	0.75920	0.76344	0.77928	0.78188			AVRG		0.81390		7.27290	
1,2,3-Trichloropropane	NE	0.65469	0.62918	0.62358	0.58743	0.58923						
	0.58888	0.55415	0.60328	0.55649			AVRG		0.59855		5.53581	
trans-1,4-Dichloro-2-butene	NE	0.13890	0.13239	0.11790	0.11729	0.11679						
	0.11541	0.12664	0.13335	0.13591			AVRG		0.12607		7.41052	
n-Propylbenzene	NE	3.53439	2.63209	2.53209	2.84258	2.93692						
	2.80210	3.13219	3.15136	3.04325			AVRG		2.95633		10.23808	
Bromobenzene	NE	0.95370	0.80509	0.75227	0.80991	0.79277						
	0.75715	0.77334	0.77592	0.77226			AVRG		0.79916		7.65867	
1,3,5-Trimethylbenzene	NE	2.48268	2.07330	1.81975	2.04869	2.10015						
	2.02308	2.25923	2.34365	2.30051			AVRG		2.16123		9.33218	
2-Chlorotoluene	NE	2.20579	2.06491	1.79059	1.89312	1.86633						
	1.75224	1.82894	1.83303	1.80312			AVRG		1.89312		7.79430	
4-Chlorotoluene	NE	2.26845	2.25121	2.10906	2.12065	2.14258						
	2.06478	2.19780	2.22960	2.22059			AVRG		2.17830		3.26734	
tert-Butylbenzene	NE	2.14748	1.73480	1.56846	1.81705	1.80636						
	1.70051	1.96448	2.00576	1.91951			AVRG		1.85160		9.51930	
1,2,4-Trimethylbenzene	NE	2.64935	2.26936	1.89125	2.13151	2.14102						
	2.06008	2.28018	2.33175	2.27563			AVRG		2.22557		9.44401	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
sec-Butylbenzene	NE 2.31593	2.76225 2.81651	2.33429 2.87775	2.15274 2.71008	2.46828	2.40717	AVRG		2.53833		10.17944	
p-Isopropyltoluene	NE 2.09380	2.76970 2.50471	1.96893 2.57341	1.91469 2.45434	2.14864	2.22762	AVRG		2.29509		12.79259	
1,3-Dichlorobenzene	NE 1.34767	1.61190 1.43556	1.42934 1.45343	1.32428 1.42665	1.39947	1.38137	AVRG		1.42329		5.80050	
1,4-Dichlorobenzene	NE 1.43902	1.66298 1.51652	1.54913 1.54268	1.47867 1.51656	1.54699	1.46611	AVRG		1.52430		4.24913	
Benzyl Chloride	NE 0.72782	0.67288 0.86124	0.55546 0.91262	0.58458 0.91977	0.55707	0.64970	AVRG		0.71568		20.72330	*
n-Butylbenzene	NE 1021843	10518 2801951	15267 4582820	30922 6046266	92255	387389	LINR	0.04039	2.32851		0.99698	
1,2-Dichlorobenzene	NE 1.35288	1.53229 1.44711	1.50392 1.45906	1.36395 1.45071	1.41655	1.40391	AVRG		1.43671		4.13675	
1,2-Dibromo-3-Chloropropane	NE 0.13161	0.13979 0.14237	0.13364 0.14298	0.14414 0.14312	0.13389	0.12727	AVRG		0.13765		4.46304	
1,2,4-Trichlorobenzene	NE 0.87140	0.96424 1.01824	0.93936 1.05089	0.86817 1.02829	0.89513	0.92080	AVRG		0.95073		7.25032	
Hexachlorobutadiene	NE 188947	1914 585400	4132 NE	6937 NE	18865	73649	QUAD	-0.01661	3.35202	-1.30864	0.99909	
Naphthalene	NE 2.18673	2.64769 2.37601	2.43467 2.41023	2.42767 2.40050	2.19435	2.27928	AVRG		2.37302		5.95573	
1,2,3-Trichlorobenzene	NE 0.84155	1.12740 0.93487	0.95656 0.95660	0.86730 0.93825	0.86478	0.85096	AVRG		0.92647		9.54913	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Ethyl Acetate	NE 0.54091	0.61659 0.56275	0.58547 0.54012	0.58404 0.54797	0.59021	0.59722	AVRG		0.57392		4.72995	
Methyl Acrylate	NE 0.46382	0.53729 0.47598	0.51625 0.46839	0.49042 0.52913	0.51921	0.44523	AVRG		0.49397		6.60703	
n-Butanol	NE 143573	1373 333572	2659 550912	5108 804319	9555	50123	LINR	1.35820	0.01419		0.99642	
Ethyl Acrylate	NE 1.12556	1.26235 1.26945	1.08473 1.27971	1.12017 1.30407	1.10451	1.09383	AVRG		1.18271		7.84082	
Cyclohexanone	NE 0.02914	0.03613 0.02972	0.03766 0.02664	0.03630 0.02699	0.03301	0.03098	AVRG		0.03184		12.97281	
1,4-Dioxane	0.00610 0.00592	0.00680 0.00628	0.00660 0.00624	0.00700 0.00645	0.00628	0.00588	AVRG		0.00636		5.71059	
n-Hexane	NE 282893	4056 828407	6841 NE	12200 NE	32239	118882	QUAD	-0.02185	2.52661	-0.74331	0.99863	
Freon TF	NE 245533	3204 646829	4459 1017540	10755 1294079	27608	98415	LINR	0.02270	0.48156		0.99589	
Methyl Acetate	NE 0.43072	0.51322 0.43094	0.50555 0.40586	0.44863 0.40874	0.44649	0.45354	AVRG		0.44930		8.43501	
Methylcyclohexane	NE 0.69881	0.81433 0.79595	0.70929 0.82665	0.69720 0.83653	0.70060	0.68088	AVRG		0.75114		8.66448	
Isopropyl alcohol	NE 441739	5543 902720	10285 1400869	25882 1951400	46061	173548	LINR	-0.25785	0.03465		0.99977	
Amyl alcohol	NE NE	NE NE	0.00690 0.00109	0.00185 0.01156	0.00230	0.00114	AVRG		0.00414		102	*

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Allyl alcohol	NE 282893	4860 828407	4388 NE	12200 NE	32239	118882	QUAD	-0.39685	50.36143	-14.75731	0.99855	
4-Methyl-2-pentanol	NE 0.07326	0.11612 0.08165	0.15081 0.08922	0.10586 0.09301	0.10408	0.07923	AVRG		0.09925		23.99067	*
Tert-butyl alcohol	NE 745105	9824 1555693	18788 2402568	45475 3353385	82288	300900	LINR	-0.25928	0.05950		0.99971	
Diethyl ether	NE 0.42791	0.48305 0.41719	0.49765 0.40806	0.44762 0.40022	0.46546	0.42461	AVRG		0.44131		7.75641	
1,3-Butadiene	NE 0.46036	0.63274 0.52619	0.50215 0.51269	0.54090 0.49908	0.49939	0.46259	AVRG		0.51512		9.96029	
Cyclohexane	NE 340162	4440 918146	5861 1454384	12705 1872161	36420	130025	LINR	0.03671	0.69448		0.99609	
Tetrahydrofuran	NE 0.09363	0.11697 0.09327	0.10303 0.09239	0.09100 0.09224	0.10554	0.08975	AVRG		0.09754		9.33471	
alpha-Methylstyrene	NE 1.02875	1.23121 1.10905	0.98100 1.12766	0.94266 1.10800	0.99132	1.05181	AVRG		1.06350		8.42717	
Diisopropyl ether	NE 1.75811	2.02254 1.77715	1.90531 1.72322	1.75503 1.75247	1.81737	1.69593	AVRG		1.80079		5.69680	
Dichlorofluoromethane	NE 0.84888	NE 0.86145	NE 0.83431	0.93125 0.83443	0.89736	0.82858	AVRG		0.86232		4.45646	*
Propylene oxide	NE 0.06424	0.11812 0.05766	0.15030 0.05779	0.07718 0.05494	0.07954	0.06651	AVRG		0.08070		40.27437	*
3-Methyl-1-butanol	NE 0.00816	NE 0.00898	0.00730 0.00977	0.00944 0.01025	0.00731	0.00797	AVRG		0.00865		13.01043	*

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
Butyl acrylate	NE 0.78908	0.81663 0.83421	0.79624 0.90433	0.77067 0.91868	0.74966	0.75021	AVRG		0.81441		7.58811	
Butyl methacrylate	NE 1.00856	1.17765 0.95368	1.00219 1.01349	0.96966 1.00259	1.00284	0.99037	AVRG		1.01345		6.37238	
Dicyclopentadiene	NE 1468680	16221 3267261	27109 5365427	58027 7593221	137259	526364	QUAD	-0.00191	0.38369	-0.00283	0.99996	
1,2,3-Trimethylbenzene	NE 2.21356	2.58628 2.25830	2.52247 2.34939	2.33551 2.32313	2.18072	2.11777	AVRG		2.32079		6.61312	
Ethanol	NE 75258	1086 156245	1697 233477	4283 323730	8818	29323	LINR	-0.50438	0.00577		0.99929	
tert-Butyl formate	NE 0.38162	0.58304 0.42429	NE 0.43222	0.69585 0.51008	0.49629	0.47342	AVRG		0.49960		20.07517	*
3,3-Dimethyl-1-butanol	NE 0.03749	NE 0.04006	0.07214 0.04264	0.04999 0.04341	0.04963	0.04256	AVRG		0.04724		23.15285	*
tert-Amyl methyl ether	NE 1.59181	2.42299 1.63848	2.18892 2.03326	1.73650 2.07152	1.83789	1.55625	AVRG		1.89751		15.76883	*
tert-Butyl ethyl ether	NE 1.58380	1.59126 1.61689	1.72822 1.61959	1.59721 1.62889	1.64579	1.55824	AVRG		1.61888		3.00434	
tert-Amyl alcohol	NE 0.03816	0.05830 0.04243	0.04896 0.04322	0.06959 0.05101	0.04963	0.04734	AVRG		0.04985		18.83220	*
Epichlorohydrin	NE 0.02768	0.03345 0.02885	0.03057 0.02997	0.03510 0.02975	0.02973	0.03010	AVRG		0.03058		7.49678	
Isoprene	NE 0.17180	0.38017 0.19332	0.14142 0.18673	0.23738 0.18158	0.18600	0.19487	AVRG		0.20814		33.23104	*

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 0.250 Level 1	100.00 Level 8 0.500 Level 2	150.00 Level 9 1.00 Level 3	200.00 Level 10 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
n-Amyl acetate	NE 0.67624	NE 0.73143	NE 0.78198	NE 0.79667	0.73221	0.71113	AVRG		0.73828		6.05429	*
Isopropyl acetate	NE 0.95278	1.17473 0.99604	0.94826 1.02757	0.95670 1.03080	1.03164	0.97079	AVRG		1.00992		7.00182	
n-Butyl acetate	NE 0.55783	0.58139 0.58885	0.52964 0.59863	0.55649 0.61777	0.56545	0.56554	AVRG		0.57351		4.56191	
Acetaldehyde	NE 128302	NE 249925	4717 NE	7566 NE	13449	59320	LINR	-0.17271	0.04834		0.99748	
Methyl Amyl Ketone	NE 0.82280	0.76625 0.87635	0.96635 0.95086	0.80166 0.95547	0.85420	0.83850	AVRG		0.87027		8.33273	
Dimethyl Disulfide	NE 0.69918	0.59913 0.71672	0.57986 0.74749	0.57899 0.75166	0.59986	0.65184	AVRG		0.65830		10.89510	
Isobutylene	NE 0.05515	0.07320 0.06062	0.07525 0.06306	0.06686 0.07052	0.06679	0.05900	AVRG		0.06561		10.25599	
2-Ethylhexyl Acrylate	NE 1.07240	1.03931 1.13795	0.79638 1.17365	0.96214 1.17150	0.86751	0.97195	AVRG		1.02142		13.06585	
94 1,2-Dichloroethylene (total)	NE 0.52480	0.61181 0.54455	0.57970 0.52533	0.53569 0.52000	0.57131	0.53611	AVRG		0.54992		5.65149	
95 Xylenes (total)	NE 0.54273	0.65181 0.60806	0.56564 0.61968	0.52445 0.61761	0.56197	0.54685	AVRG		0.58209		7.43849	
30 Dibromofluoromethane	NE 277572	4322 623623	5954 899883	12062 1262400	29825	119843	LINR	-0.01675	0.45102		0.99823	
35 1,2-Dichloroethane-d4	NE 321172	4095 683505	8038 1002392	13488 1400428	36656	130066	LINR	-0.02225	0.49960		0.99882	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

ICAL Start Date 11-AUG-2023 1133 **ICAL End Date** 11-AUG-2023 1457

Compound	50.00 Level 7 / 0.250 Level 1	100.00 Level 8 / 0.500 Level 2	150.00 Level 9 / 1.00 Level 3	200.00 Level 10 / 2.00 Level 4	5.00 Level 5	20.00 Level 6	Curve	b	m1	m2	%RSD or R2	Q
48 Toluene-d8	NE 0.98459	1.55411 1.13736	1.15990 1.05055	1.22961 1.08227	1.25336	1.13858	AVRG		1.17670		13.96851	
69 4-Bromofluorobenzene	NE 440611	8224 1004363	9648 1512449	21205 2160189	49251	175173	LINR	0.00560	0.49634		0.99943	

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	CCV	**Client Smp ID**	CCV
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	X081113.D	**Inj Date**	11-AUG-2023 15:38

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.00	49.04	98.08	80-120	
1,1,1-Trichloroethane	50.00	45.55	91.12	80-120	
1,1,2,2-Tetrachloroethane	50.00	48.03	96.07	80-120	
Freon TF	50.00	43.35	86.71	80-120	
Methyl acetate	50.00	47.61	95.23	80-120	
Cyclohexane	50.00	42.28	84.57	80-120	
Methylcyclohexane	50.00	43.16	86.33	80-120	
Carbon Disulfide	100.00	91.11	91.12	80-120	
2-Hexanone	100.00	100.30	100.30	80-120	
1,1,2-Trichloroethane	50.00	48.99	98.00	80-120	
1,1-Dichloroethane	50.00	44.61	89.24	80-120	
1,1-Dichloroethene	50.00	44.85	89.71	80-120	
1,1-Dichloropropene	50.00	46.28	92.58	80-120	
1,2,3-Trichlorobenzene	50.00	46.26	92.54	80-120	
1,2,3-Trichloropropane	50.00	50.58	101.17	80-120	
1,2,4-Trichlorobenzene	50.00	47.31	94.63	80-120	
1,2,4-Trimethylbenzene	50.00	45.73	91.46	80-120	
1,2-Dibromo-3-Chloropropane	50.00	49.55	99.11	80-120	
1,2-Dibromoethane	50.00	48.92	97.85	80-120	
Acrolein	100.00	94.82	94.82	80-120	
Acrylonitrile	100.00	89.79	89.79	80-120	
1,2-Dichlorobenzene	50.00	46.71	93.42	80-120	
1,2-Dichloroethane	50.00	47.60	95.21	80-120	
1,2-Dichloropropane	50.00	46.92	93.84	80-120	
1,3,5-Trimethylbenzene	50.00	45.53	91.07	80-120	
1,3-Dichlorobenzene	50.00	47.31	94.63	80-120	
1,3-Dichloropropane	50.00	47.80	95.62	80-120	
1,4-Dichlorobenzene	50.00	46.50	93.00	80-120	
1-Chlorohexane	50.00	43.86	87.73	80-120	
2,2-Dichloropropane	50.00	47.67	95.34	80-120	
2-Butanone	100.00	106.05	106.06	80-120	
2-Chloroethylvinyl ether	100.00	97.56	97.56	80-120	
2-Chlorotoluene	50.00	45.50	91.02	80-120	
4-Chlorotoluene	50.00	46.95	93.91	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	CCV	**Client Smp ID**	CCV
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	X081113.D	**Inj Date**	11-AUG-2023 15:38

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	45.14	90.30	80-120	
4-Methyl-2-Pentanone	100.00	98.29	98.29	80-120	
Acetone	100.00	111.66	111.67	80-120	
Acetonitrile	500.00	408.87	81.78	80-120	
Allyl Chloride	50.00	41.78	83.56	80-120	
Benzene	50.00	47.27	94.56	80-120	
Bromobenzene	50.00	47.79	95.59	80-120	
Bromochloromethane	50.00	46.58	93.18	80-120	
Bromodichloromethane	50.00	47.61	95.22	80-120	
Bromoform	50.00	52.37	104.75	80-120	
Bromomethane	50.00	49.14	98.30	80-120	
Carbon Tetrachloride	50.00	44.62	89.26	80-120	
Chlorobenzene	50.00	46.85	93.72	80-120	
Chloroethane	50.00	44.10	88.21	80-120	
Chloroform	50.00	46.14	92.28	80-120	
Chloromethane	50.00	46.79	93.60	80-120	
Chloroprene	50.00	44.24	88.49	80-120	
cis-1,2-Dichloroethene	50.00	46.74	93.49	80-120	
cis-1,3-Dichloropropene	50.00	48.57	97.14	80-120	
Dibromochloromethane	50.00	50.08	100.16	80-120	
Dibromomethane	50.00	46.76	93.54	80-120	
Dichlorodifluoromethane	50.00	45.43	90.86	80-120	
Ethylbenzene	50.00	46.69	93.39	80-120	
Ethyl Methacrylate	50.00	45.38	90.77	80-120	
Iodomethane	100.00	84.97	84.97	80-120	
Isobutyl Alcohol	1000.00	948.23	94.82	70-130	
Propionitrile	500.00	493.55	98.71	70-130	
Hexachlorobutadiene	50.00	55.74	111.50	80-120	
Isopropylbenzene	50.00	45.23	90.48	80-120	
m,p-Xylenes	100.00	93.85	93.86	80-120	
Methyl tert-butyl ether	50.00	43.73	87.46	80-120	
Methylene Chloride	50.00	44.31	88.63	80-120	
Methacrylonitrile	50.00	45.21	90.44	80-120	
Methyl Methacrylate	50.00	44.49	88.98	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_443843

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	CCV	**Client Smp ID**	CCV
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	X081113.D	**Inj Date**	11-AUG-2023 15:38

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	41.72	83.46	80-120	
n-Propylbenzene	50.00	46.88	93.78	80-120	
Naphthalene	50.00	46.99	93.99	80-120	
o-Xylene	50.00	46.65	93.31	80-120	
sec-Butylbenzene	50.00	45.63	91.26	80-120	
Styrene	50.00	49.82	99.65	80-120	
tert-Butylbenzene	50.00	44.87	89.74	80-120	
Tetrachloroethene	50.00	46.44	92.89	80-120	
Toluene	50.00	46.60	93.20	80-120	
trans-1,2-Dichloroethene	50.00	44.38	88.76	80-120	
trans-1,3-Dichloropropene	50.00	49.15	98.31	80-120	
trans-1,4-Dichloro-2-butene	50.00	46.25	92.50	80-120	
Trichloroethene	50.00	46.39	92.78	80-120	
Trichlorofluoromethane	50.00	43.52	87.04	80-120	
Vinyl Acetate	100.00	96.33	96.34	80-120	
Vinyl Chloride	50.00	45.74	91.48	80-120	
Ethyl Acrylate	50.00	42.49	84.99	80-120	
Butyl acrylate	50.00	44.95	89.92	80-120	
1,2-Dichloroethylene (total)	100.00	91.12	91.13	80-120	
Xylenes (total)	150.00	140.51	93.67	80-120	
1,4-Dioxane	1000.00	972.68	97.27	80-120	
Dibromofluoromethane	50.00	51.73	103.47	71-125	
1,2-Dichloroethane-d4	50.00	51.05	102.10	70-125	
Toluene-d8	50.00	48.82	97.66	75-125	
4-Bromofluorobenzene	50.00	50.64	101.30	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082103.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 21-AUG-2023 0852
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00636	0.00558	0.00558	0.001	12.22636	20.0	Averaged	
1,3-Butadiene	0.51512	0.47940	0.47940	0.100	6.93428	20.0	Averaged	
Methacrylonitrile	0.49867	0.44131	0.44131	0.100	11.50145	20.0	Averaged	
Isobutyl Alcohol	0.07838	0.07161	0.07161	0.005	8.63564	20.0	Averaged	
Acetonitrile	0.07711	0.06622	0.06622	0.005	14.12213	20.0	Averaged	
Allyl Chloride	1.52323	1.25962	1.25962	0.100	17.30611	20.0	Averaged	
Propionitrile	0.06963	0.06237	0.06237	0.010	10.42221	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12607	0.12239	0.12239	0.050	2.91711	20.0	Averaged	
Acetaldehyde	200	130	0.03357	0.001	34.87547	20.0	Linear	*
Chloroprene	0.21152	++++	1.031e+60	0.100	++++	20.0	Averaged	*
Ethyl Acetate	0.57392	0.50022	0.50022	0.100	12.84118	20.0	Averaged	
Methyl Methacrylate	0.46004	0.42170	0.42170	0.100	8.33477	20.0	Averaged	
Ethyl Methacrylate	0.45808	0.43978	0.43978	0.100	3.99468	20.0	Averaged	
Methyl Acrylate	0.49397	0.43480	0.43480	0.100	11.97800	20.0	Averaged	
n-Butanol	1000	834	0.01088	0.005	16.57113	20.0	Linear	
n-Hexane	50.0	61.68541	0.60441	0.100	-23.37082	20.0	Quadratic	*
Diethyl ether	0.44131	0.36879	0.36879	0.100	16.43292	20.0	Averaged	
Tetrahydrofuran	0.09754	0.08013	0.08013	0.001	17.84239	20.0	Averaged	
alpha-Methylstyrene	1.06350	1.11856	1.11856	0.100	-5.17747	20.0	Averaged	
Diisopropyl ether	1.80079	1.61167	1.61167	0.100	10.50192	20.0	Averaged	
Butyl acrylate	0.81441	0.77150	0.77150	0.100	5.26861	20.0	Averaged	
Ethanol	1000	865	0.00514	0.001	13.51002	20.0	Linear	
Dimethyl Disulfide	0.65830	0.72375	0.72375	0.100	-9.94202	20.0	Averaged	
Epichlorohydrin	0.03058	0.02616	0.02616	0.001	14.44374	20.0	Averaged	
Dicyclopentadiene	50.0	53.43649	2.85024	0.100	-6.87299	20.0	Quadratic	
1,2,3-Trimethylbenzene	2.32079	2.32344	2.32344	0.100	-0.11416	20.0	Averaged	
2-Ethylhexyl Acrylate	1.02142	1.18831	1.18831	0.100	-16.33938	20.0	Averaged	
Benzyl Chloride	0.71568	0.80390	0.80390	0.010	-12.32598	20.0	Averaged	
Cyclohexanone	0.03184	0.02996	0.02996	0.005	5.89030	20.0	Averaged	
Isobutylene	0.06561	++++	1.031e+60	0.010	++++	20.0	Averaged	*
Ethyl Acrylate	1.18271	1.20079	1.20079	0.100	-1.52887	20.0	Averaged	
Butyl methacrylate	1.01345	0.92180	0.92180	0.100	9.04289	20.0	Averaged	
Isopropyl acetate	1.00992	0.94604	0.94604	0.100	6.32532	20.0	Averaged	
n-Butyl acetate	0.57351	0.53860	0.53860	0.100	6.08720	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082103.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 21-AUG-2023 0852
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	47.38591	0.43410	0.100	5.22819	20.0	Linear	
Chloromethane	0.48655	0.44836	0.44836	0.100	7.84913	20.0	Averaged	
Vinyl Chloride	0.59972	0.56272	0.56272	0.100	6.17009	20.0	Averaged	
Bromomethane	0.32283	0.27863	0.27863	0.100	13.68858	20.0	Averaged	
Chloroethane	0.39307	0.35514	0.35514	0.100	9.65131	20.0	Averaged	
Trichlorofluoromethane	0.85354	0.83617	0.83617	0.100	2.03545	20.0	Averaged	
Acrolein	100	84.71710	0.01395	0.010	15.28290	20.0	Linear	
Acetone	100	97.21328	0.18819	0.100	2.78672	20.0	Linear	
1,1-Dichloroethene	0.48279	0.44678	0.44678	0.100	7.45986	20.0	Averaged	
Iodomethane	100	95.11034	0.53808	0.100	4.88966	20.0	Quadratic	
Acrylonitrile	0.23258	0.19205	0.19205	0.050	17.42357	20.0	Averaged	
Methylene Chloride	0.60545	0.51942	0.51942	0.100	14.20975	20.0	Averaged	
Methyl tert-butyl ether	1.72214	1.47713	1.47713	0.100	14.22706	20.0	Averaged	
Carbon Disulfide	1.43284	1.33214	1.33214	0.100	7.02777	20.0	Averaged	
trans-1,2-Dichloroethene	0.56105	0.49834	0.49834	0.100	11.17795	20.0	Averaged	
Vinyl Acetate	1.65961	1.48293	1.48293	0.010	10.64551	20.0	Averaged	
1,1-Dichloroethane	1.05661	0.91549	0.91549	0.200	13.35636	20.0	Averaged	
2-Butanone	0.18508	0.17832	0.17832	0.100	3.65219	20.0	Averaged	
2,2-Dichloropropane	50.0	51.29768	0.72773	0.100	-2.59536	20.0	Linear	
cis-1,2-Dichloroethene	0.53879	0.52842	0.52842	0.100	1.92448	20.0	Averaged	
Chloroform	0.92608	0.87993	0.87993	0.200	4.98330	20.0	Averaged	
Bromochloromethane	0.30629	0.29092	0.29092	0.100	5.01985	20.0	Averaged	
30 Dibromofluoromethane	50.0	52.14926	0.47796	0.100	-4.29852	20.0	Linear	
1,1,1-Trichloroethane	0.74351	0.75760	0.75760	0.100	-1.89515	20.0	Averaged	
1,1-Dichloropropene	0.39342	0.42042	0.42042	0.100	-6.86160	20.0	Averaged	
1,2-Dichloroethane	0.47531	0.45644	0.45644	0.100	3.96913	20.0	Averaged	
Carbon Tetrachloride	0.41532	0.44450	0.44450	0.100	-7.02506	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	50.41674	0.51488	0.100	-0.83347	20.0	Linear	
Benzene	1.23156	1.20775	1.20775	0.500	1.93352	20.0	Averaged	
Trichloroethene	0.35394	0.36361	0.36361	0.200	-2.72969	20.0	Averaged	
Bromodichloromethane	0.45867	0.45348	0.45348	0.200	1.13226	20.0	Averaged	
2-Chloroethylvinyl ether	0.11734	0.10566	0.10566	0.001	9.95626	20.0	Averaged	
1,2-Dichloropropane	0.34726	0.34216	0.34216	0.100	1.46916	20.0	Averaged	
Dibromomethane	0.23732	0.22450	0.22450	0.100	5.40214	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082103.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 21-AUG-2023 0852
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.35866	0.31967	0.31967	0.100	10.87107	20.0	Averaged	
cis-1,3-Dichloropropene	0.52485	0.53189	0.53189	0.200	-1.34174	20.0	Averaged	
48 Toluene-d8	1.17670	1.14424	1.14424	0.100	2.75901	20.0	Averaged	
Toluene	1.39321	1.37065	1.37065	0.400	1.61952	20.0	Averaged	
trans-1,3-Dichloropropene	0.44050	0.44886	0.44886	0.100	-1.89761	20.0	Averaged	
2-Hexanone	0.24075	0.21730	0.21730	0.100	9.74164	20.0	Averaged	
1,1,2-Trichloroethane	0.27772	0.27591	0.27591	0.100	0.64981	20.0	Averaged	
1,3-Dichloropropane	0.56772	0.55365	0.55365	0.100	2.47791	20.0	Averaged	
Dibromochloromethane	0.40081	0.41507	0.41507	0.100	-3.55888	20.0	Averaged	
Tetrachloroethene	0.28958	0.31915	0.31915	0.200	-10.21320	20.0	Averaged	
1,2-Dibromoethane	0.33926	0.33421	0.33421	0.100	1.48955	20.0	Averaged	
1-Chlorohexane	0.28929	0.31878	0.31878	0.100	-10.19319	20.0	Averaged	
Chlorobenzene	0.95999	0.94710	0.94710	0.500	1.34263	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37082	0.38303	0.38303	0.100	-3.29263	20.0	Averaged	
Ethylbenzene	0.47409	0.48903	0.48903	0.100	-3.15100	20.0	Averaged	
m,p-Xylenes	0.60647	0.63571	0.63571	0.100	-4.82166	20.0	Averaged	
o-Xylene	0.59764	0.60902	0.60902	0.300	-1.90565	20.0	Averaged	
Styrene	0.99383	1.05494	1.05494	0.300	-6.14868	20.0	Averaged	
Bromoform	0.27043	0.28826	0.28826	0.100	-6.59357	20.0	Averaged	
Isopropylbenzene	1.48513	1.58868	1.58868	0.100	-6.97239	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.81390	0.75486	0.75486	0.300	7.25428	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	51.55963	0.50904	0.100	-3.11925	20.0	Linear	
1,2,3-Trichloropropane	0.59855	0.59519	0.59519	0.100	0.56135	20.0	Averaged	
n-Propylbenzene	2.95633	3.26547	3.26547	0.100	-10.45702	20.0	Averaged	
Bromobenzene	0.79916	0.79934	0.79934	0.100	-0.02367	20.0	Averaged	
1,3,5-Trimethylbenzene	2.16123	2.30352	2.30352	0.100	-6.58402	20.0	Averaged	
2-Chlorotoluene	1.89312	1.91590	1.91590	0.100	-1.20338	20.0	Averaged	
4-Chlorotoluene	2.17830	2.26757	2.26757	0.100	-4.09826	20.0	Averaged	
tert-Butylbenzene	1.85160	2.02284	2.02284	0.100	-9.24840	20.0	Averaged	
1,2,4-Trimethylbenzene	2.22557	2.33053	2.33053	0.100	-4.71589	20.0	Averaged	
sec-Butylbenzene	2.53833	2.88904	2.88904	0.100	-13.81625	20.0	Averaged	
p-Isopropyltoluene	2.29509	2.56435	2.56435	0.100	-11.73173	20.0	Averaged	
1,3-Dichlorobenzene	1.42329	1.46793	1.46793	0.600	-3.13596	20.0	Averaged	
1,4-Dichlorobenzene	1.52430	1.52651	1.52651	0.400	-0.14541	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082103.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 21-AUG-2023 0852
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
n-Butylbenzene	50.0	51.73021	2.31503	0.500	-3.46043	20.0	Linear	
1,2-Dichlorobenzene	1.43671	1.45139	1.45139	0.400	-1.02176	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13765	0.13256	0.13256	0.040	3.69136	20.0	Averaged	
1,2,4-Trichlorobenzene	0.95073	1.03727	1.03727	0.100	-9.10265	20.0	Averaged	
Hexachlorobutadiene	50.0	68.99457	0.52368	0.100	-37.98913	20.0	Quadratic	*
Naphthalene	2.37302	2.27916	2.27916	0.200	3.95518	20.0	Averaged	
1,2,3-Trichlorobenzene	0.92647	0.94326	0.94326	0.010	-1.81170	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.54992	0.51338	0.51338	0.200	6.64485	20.0	Averaged	
95 Xylenes (total)	0.58209	0.60404	0.60404	0.100	-3.77111	20.0	Averaged	
Cyclohexane	50.0	52.81829	0.70813	0.100	-5.63658	20.0	Linear	
Freon TF	50.0	50.97834	0.48005	0.100	-1.95668	20.0	Linear	
Methylcyclohexane	0.75114	0.79024	0.79024	0.100	-5.20605	20.0	Averaged	
Methyl Acetate	0.44930	0.37934	0.37934	0.100	15.57010	20.0	Averaged	
Tert-butyl alcohol	1000	857	0.05174	0.005	14.33387	20.0	Linear	
Isopropyl alcohol	1000	858	0.03019	0.005	14.15179	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082131.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 21-AUG-2023 1915
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00636	0.00594	0.00594	0.001	6.46209	20.0	Averaged	
1,3-Butadiene	0.51512	0.48978	0.48978	0.100	4.92039	20.0	Averaged	
Methacrylonitrile	0.49867	0.46996	0.46996	0.100	5.75767	20.0	Averaged	
Isobutyl Alcohol	0.07838	0.07260	0.07260	0.005	7.37078	20.0	Averaged	
Acetonitrile	0.07711	0.07039	0.07039	0.005	8.71692	20.0	Averaged	
Allyl Chloride	1.52323	1.32815	1.32815	0.100	12.80669	20.0	Averaged	
Propionitrile	0.06963	0.06724	0.06724	0.010	3.44023	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.12607	0.11480	0.11480	0.050	8.93453	20.0	Averaged	
Acetaldehyde	200	149	0.03815	0.001	25.39321	20.0	Linear	*
Chloroprene	0.21152	0.20564	0.20564	0.100	2.78011	20.0	Averaged	
Ethyl Acetate	0.57392	0.51472	0.51472	0.100	10.31461	20.0	Averaged	
Methyl Methacrylate	0.46004	0.42993	0.42993	0.100	6.54572	20.0	Averaged	
Ethyl Methacrylate	0.45808	0.44966	0.44966	0.100	1.83661	20.0	Averaged	
Methyl Acrylate	0.49397	0.51475	0.51475	0.100	-4.20648	20.0	Averaged	
n-Butanol	1000	865	0.01131	0.005	13.48694	20.0	Linear	
n-Hexane	50.0	62.07698	0.60923	0.100	-24.15397	20.0	Quadratic	*
Diethyl ether	0.44131	0.39493	0.39493	0.100	10.50919	20.0	Averaged	
Tetrahydrofuran	0.09754	0.08219	0.08219	0.001	15.72894	20.0	Averaged	
alpha-Methylstyrene	1.06350	1.07488	1.07488	0.100	-1.07088	20.0	Averaged	
Diisopropyl ether	1.80079	1.65652	1.65652	0.100	8.01178	20.0	Averaged	
Butyl acrylate	0.81441	0.78372	0.78372	0.100	3.76830	20.0	Averaged	
Ethanol	1000	979	0.00580	0.001	2.11975	20.0	Linear	
Dimethyl Disulfide	0.65830	0.70017	0.70017	0.100	-6.35937	20.0	Averaged	
Epichlorohydrin	0.03058	0.02527	0.02527	0.001	17.34516	20.0	Averaged	
Dicyclopentadiene	50.0	52.08702	2.77685	0.100	-4.17404	20.0	Quadratic	
1,2,3-Trimethylbenzene	2.32079	2.28058	2.28058	0.100	1.73273	20.0	Averaged	
2-Ethylhexyl Acrylate	1.02142	1.11956	1.11956	0.100	-9.60860	20.0	Averaged	
Benzyl Chloride	0.71568	0.64803	0.64803	0.010	9.45306	20.0	Averaged	
Cyclohexanone	0.03184	0.02485	0.02485	0.005	21.94453	20.0	Averaged	*
Isobutylene	0.06561	++++	1.031e+60	0.010	++++	20.0	Averaged	*
Ethyl Acrylate	1.18271	1.24627	1.24627	0.100	-5.37423	20.0	Averaged	
Butyl methacrylate	1.01345	0.88628	0.88628	0.100	12.54790	20.0	Averaged	
Isopropyl acetate	1.00992	0.91214	0.91214	0.100	9.68211	20.0	Averaged	
n-Butyl acetate	0.57351	0.54398	0.54398	0.100	5.14833	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082131.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 21-AUG-2023 1915
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	48.95813	0.44871	0.100	2.08373	20.0	Linear	
Chloromethane	0.48655	0.43939	0.43939	0.100	9.69161	20.0	Averaged	
Vinyl Chloride	0.59972	0.59725	0.59725	0.100	0.41170	20.0	Averaged	
Bromomethane	0.32283	0.30260	0.30260	0.100	6.26422	20.0	Averaged	
Chloroethane	0.39307	0.36923	0.36923	0.100	6.06532	20.0	Averaged	
Trichlorofluoromethane	0.85354	0.89608	0.89608	0.100	-4.98383	20.0	Averaged	
Acrolein	100	156	0.02537	0.010	-56.27626	20.0	Linear	*
Acetone	100	89.10661	0.17320	0.100	10.89339	20.0	Linear	
1,1-Dichloroethene	0.48279	0.48189	0.48189	0.100	0.18791	20.0	Averaged	
Iodomethane	100	98.99633	0.56216	0.100	1.00367	20.0	Quadratic	
Acrylonitrile	0.23258	0.20944	0.20944	0.050	9.94771	20.0	Averaged	
Methylene Chloride	0.60545	0.55591	0.55591	0.100	8.18288	20.0	Averaged	
Methyl tert-butyl ether	1.72214	1.53844	1.53844	0.100	10.66691	20.0	Averaged	
Carbon Disulfide	1.43284	1.40525	1.40525	0.100	1.92552	20.0	Averaged	
trans-1,2-Dichloroethene	0.56105	0.54443	0.54443	0.100	2.96323	20.0	Averaged	
Vinyl Acetate	1.65961	1.43566	1.43566	0.010	13.49399	20.0	Averaged	
1,1-Dichloroethane	1.05661	0.97599	0.97599	0.200	7.63034	20.0	Averaged	
2-Butanone	0.18508	0.17689	0.17689	0.100	4.42778	20.0	Averaged	
2,2-Dichloropropane	50.0	47.28362	0.67081	0.100	5.43276	20.0	Linear	
cis-1,2-Dichloroethene	0.53879	0.53688	0.53688	0.100	0.35544	20.0	Averaged	
Chloroform	0.92608	0.91144	0.91144	0.200	1.58052	20.0	Averaged	
Bromochloromethane	0.30629	0.30184	0.30184	0.100	1.45460	20.0	Averaged	
30 Dibromofluoromethane	50.0	54.21823	0.49662	0.100	-8.43646	20.0	Linear	
1,1,1-Trichloroethane	0.74351	0.77877	0.77877	0.100	-4.74139	20.0	Averaged	
1,1-Dichloropropene	0.39342	0.41241	0.41241	0.100	-4.82635	20.0	Averaged	
1,2-Dichloroethane	0.47531	0.44188	0.44188	0.100	7.03210	20.0	Averaged	
Carbon Tetrachloride	0.41532	0.42762	0.42762	0.100	-2.96020	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	52.00683	0.53076	0.100	-4.01366	20.0	Linear	
Benzene	1.23156	1.21184	1.21184	0.500	1.60114	20.0	Averaged	
Trichloroethene	0.35394	0.36483	0.36483	0.200	-3.07516	20.0	Averaged	
Bromodichloromethane	0.45867	0.43409	0.43409	0.200	5.35914	20.0	Averaged	
2-Chloroethylvinyl ether	0.11734	0.10367	0.10367	0.001	11.65117	20.0	Averaged	
1,2-Dichloropropane	0.34726	0.32885	0.32885	0.100	5.30082	20.0	Averaged	
Dibromomethane	0.23732	0.22278	0.22278	0.100	6.12685	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082131.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 21-AUG-2023 1915
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.35866	0.32412	0.32412	0.100	9.63048	20.0	Averaged	
cis-1,3-Dichloropropene	0.52485	0.49840	0.49840	0.200	5.04051	20.0	Averaged	
48 Toluene-d8	1.17670	1.14742	1.14742	0.100	2.48831	20.0	Averaged	
Toluene	1.39321	1.38194	1.38194	0.400	0.80927	20.0	Averaged	
trans-1,3-Dichloropropene	0.44050	0.41806	0.41806	0.100	5.09271	20.0	Averaged	
2-Hexanone	0.24075	0.22363	0.22363	0.100	7.11197	20.0	Averaged	
1,1,2-Trichloroethane	0.27772	0.27282	0.27282	0.100	1.76428	20.0	Averaged	
1,3-Dichloropropane	0.56772	0.55013	0.55013	0.100	3.09882	20.0	Averaged	
Dibromochloromethane	0.40081	0.40494	0.40494	0.100	-1.03188	20.0	Averaged	
Tetrachloroethene	0.28958	0.31424	0.31424	0.200	-8.51825	20.0	Averaged	
1,2-Dibromoethane	0.33926	0.33260	0.33260	0.100	1.96396	20.0	Averaged	
1-Chlorohexane	0.28929	0.30636	0.30636	0.100	-5.90118	20.0	Averaged	
Chlorobenzene	0.95999	0.94554	0.94554	0.500	1.50520	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.37082	0.37497	0.37497	0.100	-1.11856	20.0	Averaged	
Ethylbenzene	0.47409	0.49319	0.49319	0.100	-4.02889	20.0	Averaged	
m,p-Xylenes	0.60647	0.63165	0.63165	0.100	-4.15184	20.0	Averaged	
o-Xylene	0.59764	0.60523	0.60523	0.300	-1.27044	20.0	Averaged	
Styrene	0.99383	1.04240	1.04240	0.300	-4.88637	20.0	Averaged	
Bromoform	0.27043	0.28127	0.28127	0.100	-4.00782	20.0	Averaged	
Isopropylbenzene	1.48513	1.59671	1.59671	0.100	-7.51317	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.81390	0.74245	0.74245	0.300	8.77863	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	51.65619	0.51000	0.100	-3.31239	20.0	Linear	
1,2,3-Trichloropropane	0.59855	0.78912	0.78912	0.100	-31.84031	20.0	Averaged	*
n-Propylbenzene	2.95633	3.16326	3.16326	0.100	-6.99942	20.0	Averaged	
Bromobenzene	0.79916	0.78243	0.78243	0.100	2.09296	20.0	Averaged	
1,3,5-Trimethylbenzene	2.16123	2.22750	2.22750	0.100	-3.06623	20.0	Averaged	
2-Chlorotoluene	1.89312	1.85783	1.85783	0.100	1.86382	20.0	Averaged	
4-Chlorotoluene	2.17830	2.17407	2.17407	0.100	0.19417	20.0	Averaged	
tert-Butylbenzene	1.85160	1.99536	1.99536	0.100	-7.76389	20.0	Averaged	
1,2,4-Trimethylbenzene	2.22557	2.25801	2.25801	0.100	-1.45752	20.0	Averaged	
sec-Butylbenzene	2.53833	2.78566	2.78566	0.100	-9.74356	20.0	Averaged	
p-Isopropyltoluene	2.29509	2.45161	2.45161	0.100	-6.81941	20.0	Averaged	
1,3-Dichlorobenzene	1.42329	1.42246	1.42246	0.600	0.05855	20.0	Averaged	
1,4-Dichlorobenzene	1.52430	1.49314	1.49314	0.400	2.04406	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID VOA6_444516

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa6.i
Lab File ID X082131.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 21-AUG-2023 1915
ICAL Date(s) 11-AUG-2023, 11-AUG-2023
ICAL Times 11:33, 14:57
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF50 / Conc	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
n-Butylbenzene	50.0	49.17642	2.19610	0.500	1.64715	20.0	Linear	
1,2-Dichlorobenzene	1.43671	1.39735	1.39735	0.400	2.73966	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13765	0.13225	0.13225	0.040	3.91947	20.0	Averaged	
1,2,4-Trichlorobenzene	0.95073	0.98822	0.98822	0.100	-3.94381	20.0	Averaged	
Hexachlorobutadiene	50.0	62.70462	0.46265	0.100	-25.40923	20.0	Quadratic	*
Naphthalene	2.37302	2.24476	2.24476	0.200	5.40483	20.0	Averaged	
1,2,3-Trichlorobenzene	0.92647	0.90131	0.90131	0.010	2.71662	20.0	Averaged	
94 1,2-Dichloroethylene (total	0.54992	0.54065	0.54065	0.200	1.68572	20.0	Averaged	
95 Xylenes (total)	0.58209	0.59736	0.59736	0.100	-2.62297	20.0	Averaged	
Cyclohexane	50.0	54.29617	0.72866	0.100	-8.59234	20.0	Linear	
Freon TF	50.0	54.15366	0.51063	0.100	-8.30733	20.0	Linear	
Methylcyclohexane	0.75114	0.78317	0.78317	0.100	-4.26423	20.0	Averaged	
Methyl Acetate	0.44930	0.41041	0.41041	0.100	8.65440	20.0	Averaged	
Tert-butyl alcohol	1000	951	0.05737	0.005	4.87487	20.0	Linear	
Isopropyl alcohol	1000	941	0.03305	0.005	5.89782	20.0	Linear	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6_444410		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	X081802.D	690449	#	4.18	#	1067199	#	4.97	#	1010392	#	7.67	#	594409	#	9.66	#
HS23081076-01	X081822.D	642208		4.18		926455		4.97		857309		7.67		469793		9.66	
HS23081076-03	X081817.D	638981		4.18		931369		4.97		848509		7.67		447500		9.66	
VBLKW-230818	X081807.D	666490		4.18		967218		4.97		909928		7.67		483461		9.66	
VLCSW-230818	X081805.D	662730		4.18		1025066		4.97		964309		7.67		564401		9.66	
MS-ZZZZZZMS	X081813.D	657172		4.18		974506		4.97		892070		7.67		504584		9.66	
ZZZZZZMSD	X081814.D	666645		4.18		983198		4.97		896910		7.67		517234		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

Volatiles by EPA Volatiles Organics by Method 8260C

VOA6_444516		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	X082103.D	699453	#	4.18	#	1062833	#	4.97	#	1024221	#	7.67	#	599978	#	9.66	#
HS23081076-01	X082128.D	660783		4.18		966883		4.97		892113		7.67		479169		9.66	
HS23081076-03	X082127.D	666669		4.18		964300		4.97		885371		7.67		464768		9.66	
VBLKW-230821	X082107.D	682231		4.18		979243		4.97		922904		7.67		511816		9.66	
VLCSW-230821	X082105.D	702162		4.18		1075416		4.97		1023227		7.67		583853		9.66	
MS-ZZZZZZMS	X082121.D	677527		4.18		993486		4.97		912969		7.67		518716		9.66	
ZZZZZZMSD	X082122.D	694999		4.18		1036298		4.97		971397		7.67		572386		9.66	

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23081076

RunID
VOA6-443843

Volatiles by EPA Volatiles Organics by Method 8260C

Run ID VOA6_443843 **Start Date** 08/11/23 **EndDate** 08/11/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:13	BFB	TUNE	BFB	X081101.D	08/11/23	1
11:33	VSTD000.25	ICAL1	VSTD000.25	X081102.D	08/11/23	1
12:14	VSTD000.5	ICAL2	VSTD000.5	X081103.D	08/11/23	1
12:35	VSTD001	ICAL3	VSTD001	X081104.D	08/11/23	1
12:55	VSTD002	ICAL4	VSTD002	X081105.D	08/11/23	1
13:15	VSTD005	ICAL5	VSTD005	X081106.D	08/11/23	1
13:36	VSTD020	ICAL6	VSTD020	X081107.D	08/11/23	1
13:56	VSTD050	ICAL7	VSTD050	X081108.D	08/11/23	1
14:17	VSTD100	ICAL8	VSTD100	X081109.D	08/11/23	1
14:37	VSTD150	ICAL9	VSTD150	X081110.D	08/11/23	1
14:57	VSTD200	ICAL	VSTD200	X081111.D	08/11/23	1
15:38	CCV	ICV	CCV	X081113.D	08/11/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23081076

RunID
VOA6-444516

Volatiles by EPA Volatiles Organics by Method 8260C

Run ID VOA6_444516 **Start Date** 08/21/23 **EndDate** 08/21/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
08:11	BFB	TUNE	BFB	X082101.D	08/21/23	1
08:52	CCV	CCV	CCV	X082103.D	08/21/23	1
09:33	VLCSW-230821	LCS	VLCSW-230821	X082105.D	08/21/23	1
10:14	VBLKW-230821	MBLK	VBLKW-230821	X082107.D	08/21/23	1
15:30	HS23081216-13	SAMP	ZZZZZZZZZZ	X082120.D	08/21/23	1
15:51	HS23081216-13MS	MS	ZZZZZZMS	X082121.D	08/21/23	1
16:11	HS23081216-13MSD	MSD	ZZZZZZMSD	X082122.D	08/21/23	1
17:33	HS23081040-02	SAMP	ZZZZZZZZZZ	X082126.D	08/21/23	1
17:54	HS23081076-03	SAMP	Trip Blank	X082127.D	08/21/23	1
18:14	HS23081076-01	SAMP	LH18/24-	X082128.D	08/21/23	1
18:34	HS23081040-01	SAMP	ZZZZZZZZZZ	X082129.D	08/21/23	10
18:55	HS23081040-01	SAMP	ZZZZZZZZZZ	X082130.D	08/21/23	100
19:15	CCV_END	CCV_END	CCV_END	X082131.D	08/21/23	1

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Raw Data VOA6 443843

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081101.D Page 1
Report Date: 11-Aug-2023 11:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081101.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 11-AUG-2023 11:13
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\bfb.m
Meth Date : 06-Feb-2018 12:19 pcabasca Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	133504			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	29288			15.00- 40.00	21.94
8.687	8.889	(0.000)	75	71592			30.00- 60.00	53.63
8.687	8.889	(0.000)	96	8909			5.00- 9.00	6.67
8.687	8.889	(0.000)	173	1436			0.00- 2.00	1.20
8.687	8.889	(0.000)	174	119896			50.00- 0.00	89.81
8.687	8.889	(0.000)	175	9940			5.00- 9.00	8.29
8.687	8.889	(0.000)	176	116688			95.00- 101.00	97.32
8.687	8.889	(0.000)	177	8151			5.00- 9.00	6.99

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.94
75	30.00 - 60.00% of mass 95	53.63
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	1.08 (1.20)
174	Greater than 50.00% of mass 95	89.81
175	5.00 - 9.00% of mass 174	7.45 (8.29)
176	95.00 - 101.00% of mass 174	87.40 (97.32)
177	5.00 - 9.00% of mass 176	6.11 (6.99)

Data File: X081101.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1489	66.90	454	96.00	8909	139.70	97
37.00	9334	68.00	15426	97.10	317	140.90	1519
38.00	8002	69.00	16323	103.80	1007	141.70	221
39.00	2897	69.90	960	104.70	209	142.90	1486
40.00	2340	70.10	1008	105.90	671	143.70	56
40.90	128	70.90	129	106.80	182	145.70	208
43.10	411	71.80	501	109.90	155	147.70	275
44.00	3487	73.00	6125	111.00	302	148.90	79
45.00	1525	74.00	26376	111.70	142	149.80	173
46.00	235	75.00	71592	112.60	141	151.70	54
47.00	1767	76.00	6877	113.00	142	152.60	72
47.90	1117	77.00	1148	114.90	321	154.00	61
49.00	6205	78.00	937	115.60	465	154.80	330
50.00	29288	78.90	6479	116.10	489	156.90	430
51.10	8526	79.90	1839	116.80	1358	158.70	315
52.10	216	80.90	7153	117.70	508	160.90	203
55.10	453	81.90	1248	118.80	884	169.30	52
55.90	2727	82.80	135	123.90	264	170.20	191
57.00	4451	83.20	170	125.00	121	171.20	109
57.90	475	86.10	234	127.00	76	172.90	1436
60.00	1216	87.00	5967	127.80	678	173.90	119896
61.00	6884	87.90	5466	128.60	243	174.90	9940
62.00	7158	88.70	396	129.80	454	175.90	116688
63.00	6527	90.90	677	130.90	241	176.90	8151
63.80	288	91.90	4406	135.00	136	189.20	58
64.20	280	93.00	5676	136.90	208	277.90	56
65.00	63	94.00	15567	137.60	65	280.80	137
65.80	79	95.00	133504	138.80	118		

Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081101.d Page 1

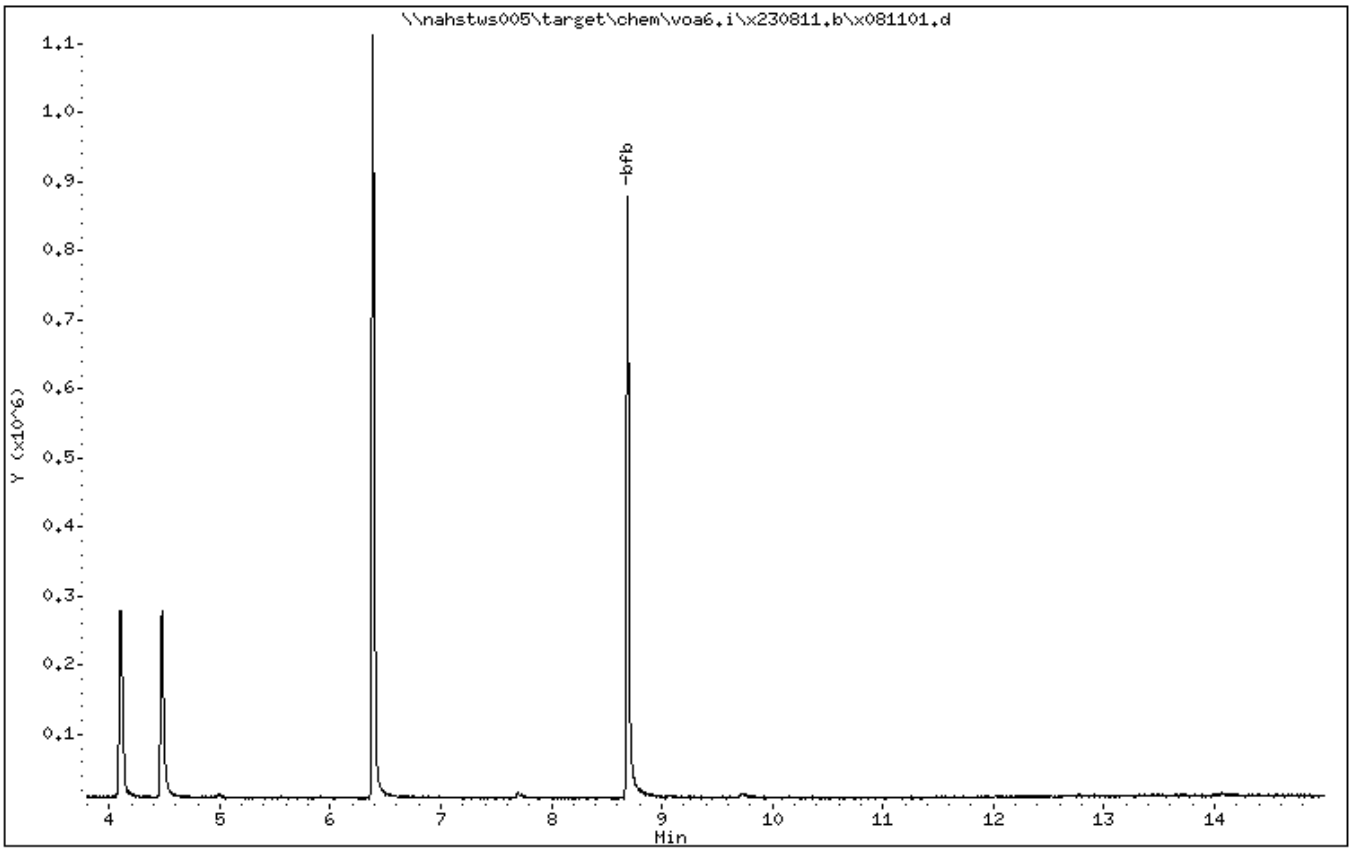
Date : 11-AUG-2023 11:13

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081101.d
Inj Date : 11-AUG-2023 11:13
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081102.D Page 1
Report Date: 23-Aug-2023 11:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081102.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 11-AUG-2023 11:33
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 14:57 Cal File: X081111.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

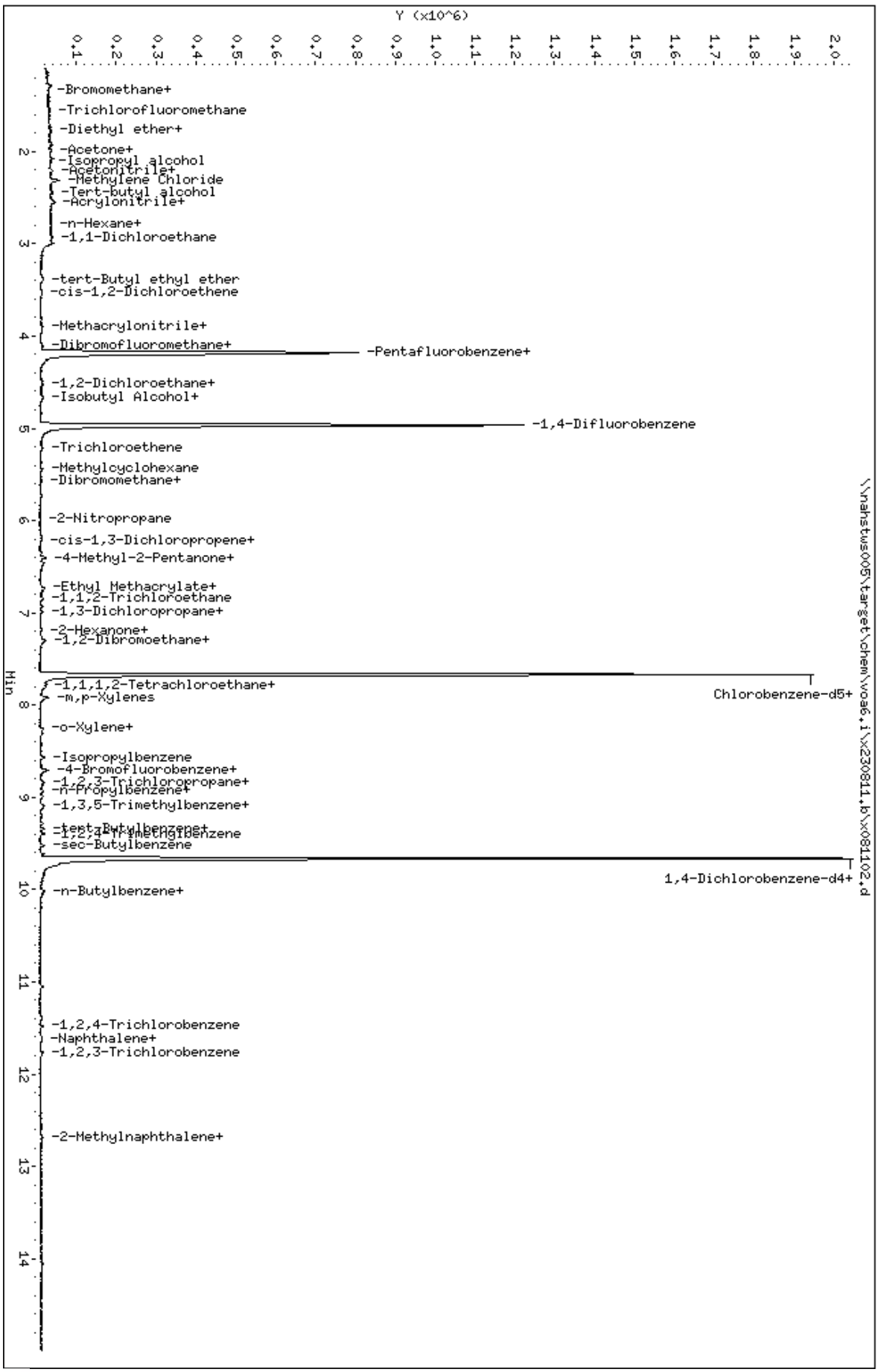
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.181	4.181	(1.000)	626188	50.0000	
	2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	974	0.25000	0.83
	9 Acrolein	56	1.336	1.336	(0.320)	816	0.50000	1.34(Ta)
	13 Acetonitrile	39	2.210	2.210	(0.528)	2035	2.50000	2.10(a)
	15 Iodomethane	142	2.033	2.033	(0.486)	1065	0.50000	5.70(T)
	17 Methylene Chloride	84	2.307	2.307	(0.552)	7629	0.25000	1.00
	32 1,1-Dichloropropene	75	4.185	4.185	(0.842)	40609	0.25000	5.22
	34 Carbon Tetrachloride	117	4.181	4.181	(0.842)	56019	0.25000	6.83
*	36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	987045	50.0000	
	43 2-Nitropropane	43	5.977	5.977	(1.429)	836	0.25000	0.36(a)
	44 Dibromomethane	93	5.553	5.553	(1.118)	1301	0.25000	0.27(a)
	45 4-Methyl-2-Pentanone	43	6.352	6.352	(0.828)	3113	0.50000	0.46(a)
	46 cis-1,3-Dichloropropene	75	6.161	6.161	(1.240)	2810	0.25000	0.27(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	938711	50.0000	
$	48 Toluene-d8	98	6.401	6.401	(0.835)	10047	0.25000	0.45(a)
	49 Ethyl Methacrylate	69	6.730	6.730	(1.355)	1234	0.25000	0.13(a)
	50 Toluene	91	6.461	6.461	(0.843)	7422	0.25000	0.28(a)
	52 2-Hexanone	43	7.132	7.132	(0.930)	1169	0.50000	0.25(a)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	1472	0.25000	0.28(a)
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	2926	0.25000	0.27(a)

55 Dibromochloromethane	129	7.180	7.180 (0.936)	2180	0.25000	0.28(a)
56 Tetrachloroethene	164	6.937	6.937 (0.905)	775	0.25000	0.14(a)

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	57 1,2-Dibromoethane	107	7.281	7.281	(0.950)	1731	0.25000	0.27(a)
	58 1-Chlorohexane	55	7.671	7.671	(1.544)	8794	0.25000	1.53(a)
	59 Chlorobenzene	112	7.698	7.698	(1.004)	4792	0.25000	0.26(a)
	60 1,1,1,2-Tetrachloroethane	131	7.784	7.784	(1.015)	1491	0.25000	0.21(a)
	61 Ethylbenzene	106	7.810	7.810	(1.019)	2470	0.25000	0.27(a)
	62 m,p-Xylenes	106	7.919	7.919	(1.033)	5302	0.50000	0.46(a)
	63 o-Xylene	106	8.267	8.267	(1.078)	3049	0.25000	0.27(a)
	64 Styrene	104	8.309	8.309	(1.084)	3334	0.25000	0.17(a)
	67 Isopropylbenzene	105	8.571	8.571	(1.118)	6419	0.25000	0.23(a)
$	69 4-Bromofluorobenzene	95	8.710	8.710	(1.136)	7582	0.25000	1.09(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	510942	50.0000	
	71 1,2,3-Trichloropropane	75	8.882	8.882	(0.919)	2146	0.25000	0.35(a)
	73 n-Propylbenzene	91	8.931	8.931	(0.924)	6502	0.25000	0.21(a)
	74 Bromobenzene	156	8.833	8.833	(0.914)	1137	0.25000	0.13(a)
	75 1,3,5-Trimethylbenzene	105	9.081	9.081	(0.940)	5894	0.25000	0.26(a)
	76 2-Chlorotoluene	91	8.991	8.991	(0.931)	5547	0.25000	0.28(a)
	77 4-Chlorotoluene	91	9.115	9.115	(0.943)	5886	0.25000	0.26(a)
	78 tert-Butylbenzene	119	9.343	9.343	(0.967)	4589	0.25000	0.24(a)
	79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	6557	0.25000	0.28(a)
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	6673	0.25000	0.25(a)
	82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	6091	0.25000	0.25(a)
	83 1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	3071	0.25000	0.21(a)
	84 1,4-Dichlorobenzene	146	9.677	9.677	(1.002)	4795	0.25000	0.30(a)
	87 n-Butylbenzene	91	10.037	10.037	(1.039)	3022	0.25000	2.14(a)
	88 1,2-Dichlorobenzene	146	10.022	10.022	(1.037)	3447	0.25000	0.23(a)
	90 1,2,4-Trichlorobenzene	180	11.401	11.401	(1.180)	2133	0.25000	0.21(a)
	92 Naphthalene	128	11.615	11.615	(1.202)	6120	0.25000	0.25(a)
	93 1,2,3-Trichlorobenzene	180	11.772	11.772	(1.218)	2722	0.25000	0.28(a)
	146 Methyl acetate	43	2.258	2.258	(0.540)	2769	0.25000	0.49(a)
	138 Freon TF	101	1.925	1.925	(0.460)	806	0.25000	1.26(a)
	141 Cyclohexane	56	4.178	4.178	(0.999)	12532	0.25000	3.27(a)
	135 1,4-Dioxane	88	5.628	5.628	(1.346)	382	5.00000	4.79(aM)
	136 n-Hexane	57	2.783	2.783	(0.666)	1292	0.25000	(a)
	139 Diethyl ether	59	1.767	1.767	(0.423)	1799	0.25000	0.32(a)
	149 Isopropyl alcohol	45	2.108	2.108	(0.504)	3100	5.00000	(Ta)
	166 1,2,3-Trimethylbenzene	105	9.741	9.741	(1.008)	5876	0.25000	0.24(a)
	174 tert-Amyl methyl ether	73	4.672	4.672	(1.117)	6668	0.25000	0.28(a)
	175 tert-Butyl ethyl ether	59	3.387	3.387	(0.810)	5018	0.25000	0.24(a)
	176 tert-Amyl alcohol	59	4.642	4.642	(1.110)	4020	5.00000	6.43
	151 4-Methyl-2-pentanol	45	6.738	6.738	(1.356)	11486	5.00000	5.86
	180 1-Methylnaphthalene	142	12.695	12.695	(1.314)	1515	0.25000	(a)
	140 1,3-Butadiene	54	1.175	1.175	(0.281)	1199	0.25000	0.18(a)
	159 Propylene oxide	43	1.801	1.801	(0.431)	2267	0.50000	2.24(a)
	162 Butyl acrylate	55	8.305	8.305	(1.083)	1916	0.25000	0.12(a)
	164 Dicyclopentadiene	66	9.662	9.662	(1.000)	19049	0.25000	0.61(a)
M	94 1,2-Dichloroethylene (total)	96				3170	0.50000	(a)
	134 Cyclohexanone	55	8.657	8.657	(0.896)	1844	5.00000	5.66(a)
	189 n-Butyl acetate	43	7.304	7.304	(0.953)	3645	0.25000	0.33(a)
	150 Allyl alcohol	57	2.783	2.783	(0.666)	1292	5.00000	(a)
	200 Dimethyl Disulfide	94	6.209	6.209	(0.810)	2212	0.25000	0.17(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081102.d
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Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

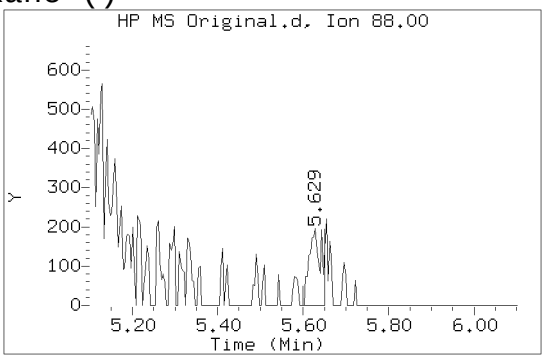
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 11-AUG-2023 11:33
InstruID : voa6.i
LabSampID : VSTD000.25

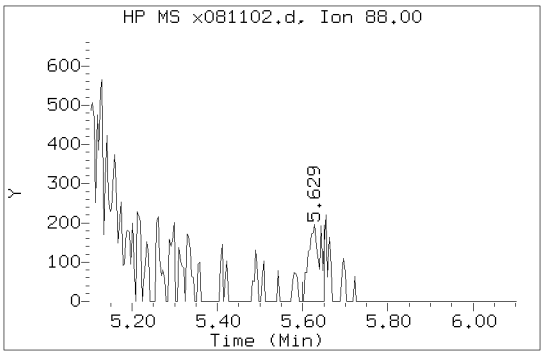
1,4-Dioxane ()

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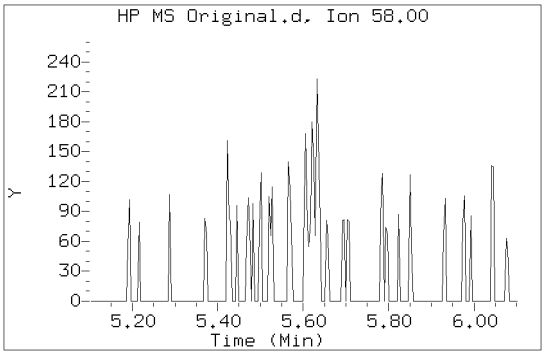
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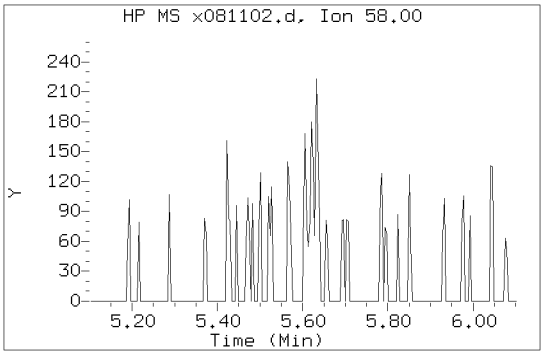
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12-Aug-2023
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BEFORE
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AREA
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HEIGHT
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12-Aug-2023
22:49



AFTER
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AREA
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HEIGHT
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12-Aug-2023
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081103.D Page 1
Report Date: 23-Aug-2023 11:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081103.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 11-AUG-2023 12:14
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 12:14 Cal File: X081103.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	606565	50.0000	
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	3407	0.50000	1.27(M)
3 Chloromethane	50	1.085	1.085	(0.260)	3482	0.50000	0.58(M)
4 Propionitrile	54	3.720	3.720	(0.890)	4117	5.00000	4.87(aM)
5 Vinyl Chloride	62	1.145	1.145	(0.274)	4404	0.50000	0.60(M)
6 Bromomethane	94	1.344	1.344	(0.321)	2137	0.50000	0.54(M)
7 Chloroethane	64	1.411	1.411	(0.338)	2768	0.50000	0.58(M)
8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	6710	0.50000	0.64(M)
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	3414	0.50000	0.58(M)
12 Isobutyl Alcohol	43	4.699	4.699	(1.124)	10205	10.0000	10.73(aM)
13 Acetonitrile	39	2.202	2.202	(0.527)	4428	5.00000	4.73(aM)
14 Allyl Chloride	41	2.202	2.202	(0.527)	10300	0.50000	0.55(aM)
15 Iodomethane	142	2.037	2.037	(0.487)	2898	1.00000	5.96(T)
16 Acrylonitrile	53	2.551	2.551	(0.610)	3027	1.00000	1.07(M)
17 Methylene Chloride	84	2.303	2.303	(0.551)	3889	0.50000	0.52(M)
18 Methyl tert-butyl ether	73	2.543	2.543	(0.608)	11988	0.50000	0.57
19 Carbon Disulfide	76	2.078	2.078	(0.497)	18059	1.00000	1.03(M)
20 trans-1,2-Dichloroethene	96	2.539	2.539	(0.607)	3848	0.50000	0.56(M)
21 Vinyl Acetate	43	3.019	3.019	(0.722)	22253	1.00000	1.10(M)
22 1,1-Dichloroethane	63	2.926	2.926	(0.700)	7346	0.50000	0.57(M)
23 Chloroprene	53	1.782	1.782	(0.426)	1459	0.50000	0.56(aM)

24 2-Butanone	43	3.702	3.702 (0.885)	2017	1.00000	0.89(aM)
25 Methacrylonitrile	41	3.878	3.878 (0.927)	3257	0.50000	0.53(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	4612	0.50000	0.51(M)
	27 cis-1,2-Dichloroethene	96	3.537	3.537	(0.846)	3574	0.50000	0.54(M)
	28 Chloroform	83	3.908	3.908	(0.935)	5756	0.50000	0.51(M)
	29 Bromochloromethane	128	3.803	3.803	(0.909)	1872	0.50000	0.50(M)
	31 1,1,1-Trichloroethane	97	4.088	4.088	(0.978)	4852	0.50000	0.53(M)
	32 1,1-Dichloropropene	75	4.290	4.290	(0.864)	4132	0.50000	0.56(MH)
	33 1,2-Dichloroethane	62	4.575	4.575	(0.921)	4942	0.50000	0.55(M)
	34 Carbon Tetrachloride	117	4.268	4.268	(0.860)	4492	0.50000	0.57(MH)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	936474	50.0000	
	37 Benzene	78	4.523	4.523	(0.911)	12962	0.50000	0.56(M)
	38 Trichloroethene	130	5.212	5.212	(1.050)	3802	0.50000	0.57(aM)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	5036	0.50000	0.58(aM)
	40 Methyl Methacrylate	41	5.640	5.640	(1.349)	2840	0.50000	0.50(a)
	41 2-Chloroethylvinyl ether	63	6.078	6.078	(1.224)	2443	1.00000	1.11(aM)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	3864	0.50000	0.59(aM)
	43 2-Nitropropane	43	5.981	5.981	(1.430)	1190	0.50000	0.53(a)
	44 Dibromomethane	93	5.565	5.565	(1.121)	2538	0.50000	0.57(a)
	45 4-Methyl-2-Pentanone	43	6.352	6.352	(0.828)	6765	1.00000	1.03(aM)
	46 cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	5702	0.50000	0.58(aM)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	907144	50.0000	
$	48 Toluene-d8	98	6.397	6.397	(0.834)	14098	0.50000	0.66(aM)
	49 Ethyl Methacrylate	69	6.805	6.805	(1.371)	4461	0.50000	0.51(aH)
	50 Toluene	91	6.457	6.457	(0.842)	14402	0.50000	0.56(aM)
	51 trans-1,3-Dichloropropene	75	6.704	6.704	(1.350)	4833	0.50000	0.58(aM)
	52 2-Hexanone	43	7.139	7.139	(0.931)	4310	1.00000	0.98(a)
	53 1,1,2-Trichloroethane	83	6.847	6.847	(0.893)	2765	0.50000	0.54(aM)
	54 1,3-Dichloropropane	76	6.989	6.989	(0.912)	5853	0.50000	0.56(a)
	55 Dibromochloromethane	129	7.177	7.177	(0.936)	3861	0.50000	0.53(aM)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	2916	0.50000	0.55(aM)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	3314	0.50000	0.53(aM)
	58 1-Chlorohexane	55	7.698	7.698	(1.550)	2827	0.50000	0.52(aMH)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	10027	0.50000	0.57(aM)
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	3665	0.50000	0.54(aM)
	61 Ethylbenzene	106	7.806	7.806	(1.018)	4890	0.50000	0.56(aM)
	62 m,p-Xylenes	106	7.911	7.911	(1.032)	12402	1.00000	1.12(aM)
	63 o-Xylene	106	8.245	8.245	(1.075)	5910	0.50000	0.54(aM)
	64 Styrene	104	8.286	8.286	(1.081)	9494	0.50000	0.52(aM)
	66 Bromoform	173	8.421	8.421	(1.098)	2332	0.50000	0.47(TaM)
	67 Isopropylbenzene	105	8.564	8.564	(1.117)	16385	0.50000	0.60(aM)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	4493	0.50000	0.57(aM)
$	69 4-Bromofluorobenzene	95	8.699	8.699	(1.134)	8224	0.50000	1.19(aM)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	483591	50.0000	
	71 1,2,3-Trichloropropane	75	8.878	8.878	(0.919)	3166	0.50000	0.54(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.950	8.950	(1.167)	1260	0.50000	0.55(aM)
	73 n-Propylbenzene	91	8.923	8.923	(0.924)	17092	0.50000	0.59(aM)
	74 Bromobenzene	156	8.818	8.818	(0.913)	4612	0.50000	0.59(aM)
	75 1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	12006	0.50000	0.57(aM)
	76 2-Chlorotoluene	91	8.983	8.983	(0.930)	10667	0.50000	0.58(aM)
	77 4-Chlorotoluene	91	9.088	9.088	(0.941)	10970	0.50000	0.52(aM)
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	10385	0.50000	0.57(aM)
	79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	12812	0.50000	0.59(aM)
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	13358	0.50000	0.54(aM)

82 p-Isopropyltoluene	119	9.651	9.651 (0.999)	13394	0.50000	0.60(aM)
83 1,3-Dichlorobenzene	146	9.609	9.609 (0.995)	7795	0.50000	0.56(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	8042	0.50000	0.54(aM)
86	Benzyl Chloride	91	9.831	9.831	(1.282)	6104	0.50000	0.47(aM)
87	n-Butylbenzene	91	10.011	10.011	(1.036)	10518	0.50000	2.48(aM)
88	1,2-Dichlorobenzene	146	10.007	10.007	(1.036)	7410	0.50000	0.53(aM)
89	1,2-Dibromo-3-Chloropropane	155	10.689	10.689	(1.106)	676	0.50000	0.50(aM)
90	1,2,4-Trichlorobenzene	180	11.368	11.368	(1.177)	4663	0.50000	0.50(aM)
92	Naphthalene	128	11.585	11.585	(1.199)	12804	0.50000	0.55(aM)
93	1,2,3-Trichlorobenzene	180	11.754	11.754	(1.216)	5452	0.50000	0.60(aM)
146	Methyl acetate	43	2.243	2.243	(0.537)	3113	0.50000	0.57(aM)
138	Freon TF	101	1.921	1.921	(0.459)	3204	0.50000	1.68(aM)
141	Cyclohexane	56	4.129	4.129	(0.987)	4440	0.50000	2.36(aMH)
142	Tetrahydrofuran	42	3.889	3.889	(0.930)	1419	1.00000	1.19(aM)
147	Methylcyclohexane	55	5.373	5.373	(1.082)	7626	0.50000	0.54(aM)
135	1,4-Dioxane	88	5.617	5.617	(1.343)	825	10.0000	10.70(aM)
132	n-Butanol	56	5.370	5.370	(1.284)	1373	10.0000	75.88(aM)
131	Methyl Acrylate	55	3.780	3.780	(0.904)	3259	0.50000	0.54(aM)
133	Ethyl Acrylate	55	5.373	5.373	(1.285)	7657	0.50000	0.53(aM)
136	n-Hexane	57	2.779	2.779	(0.665)	4056	0.50000	(aM)
139	Diethyl ether	59	1.767	1.767	(0.423)	2930	0.50000	0.54(aM)
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	5543	10.0000	0.29(aM)
156	Diisopropyl ether	45	3.012	3.012	(0.720)	12268	0.50000	0.56(TaM)
166	1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	12507	0.50000	0.55(a)
167	Ethanol	45	1.719	1.719	(0.411)	1086	10.0000	(aM)
172	tert-Butyl formate	59	4.639	4.639	(1.109)	7073	1.00000	1.16(a)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	14697	0.50000	0.57(a)
175	tert-Butyl ethyl ether	59	3.387	3.387	(0.810)	11226	0.50000	0.56(aM)
176	tert-Amyl alcohol	59	4.639	4.639	(1.109)	7073	10.0000	11.69
151	4-Methyl-2-pentanol	45	6.734	6.734	(1.356)	21748	10.0000	11.69
180	1-Methylnaphthalene	142	12.665	12.665	(1.311)	9184	0.50000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	3838	0.50000	0.61(aM)
159	Propylene oxide	43	1.809	1.809	(0.433)	1433	1.00000	1.46(a)
162	Butyl acrylate	55	8.286	8.286	(1.081)	7408	0.50000	0.50(aM)
163	Butyl methacrylate	41	9.182	9.182	(0.950)	5695	0.50000	0.58(aM)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	16221	0.50000	0.54(aM)
182	Epichlorohydrin	57	6.123	6.123	(1.233)	1253	2.00000	2.18(aM)
M 94	1,2-Dichloroethylene (total)	96				7422	1.00000	1.11(a)
M 95	Xylenes (total)	106				18312	1.50000	1.67(a)
130	Ethyl Acetate	43	3.717	3.717	(0.889)	3740	0.50000	0.53(aM)
134	Cyclohexanone	55	8.657	8.657	(0.896)	3494	10.0000	11.34(aM)
185	Isoprene	39	1.790	1.790	(0.428)	2306	0.50000	0.91(a)
188	Isopropyl acetate	43	4.699	4.699	(0.946)	11001	0.50000	0.58(aM)
189	n-Butyl acetate	43	7.237	7.237	(0.944)	5274	0.50000	0.50(aM)
150	Allyl alcohol	57	2.779	2.779	(0.665)	4860	10.0000	0.28(a)
195	Methyl Amyl Ketone	43	8.429	8.429	(1.099)	6951	0.50000	0.44(a)
200	Dimethyl Disulfide	94	6.209	6.209	(0.810)	5435	0.50000	0.45(a)
205	2-Ethylhexyl Acrylate	55	11.562	11.562	(1.197)	5026	0.50000	0.50(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

01251230

Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d

Page 1

Date : 11-AUG-2023 12:14

Client ID: VSTD000.5

Instrument: voa6.i

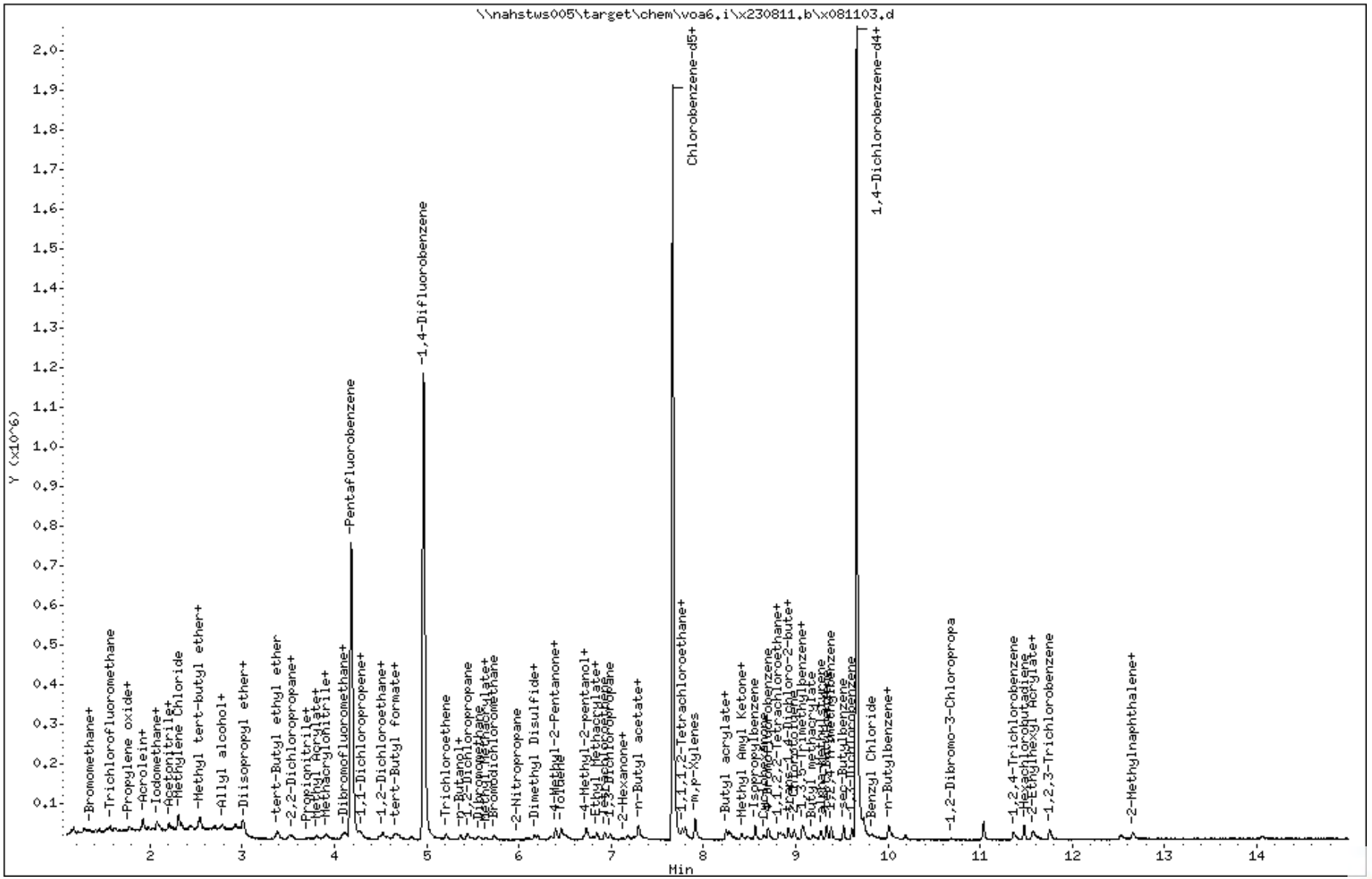
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18

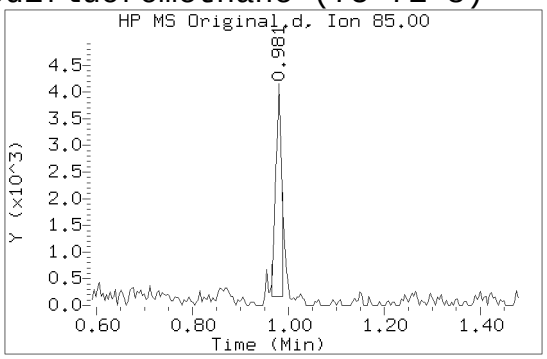


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LabSampID : VSTD000.5

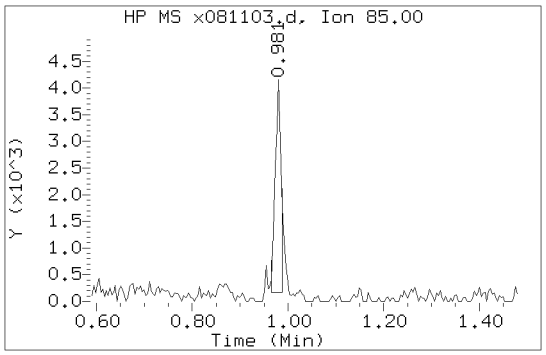
Dichlorodifluoromethane (75-71-8)

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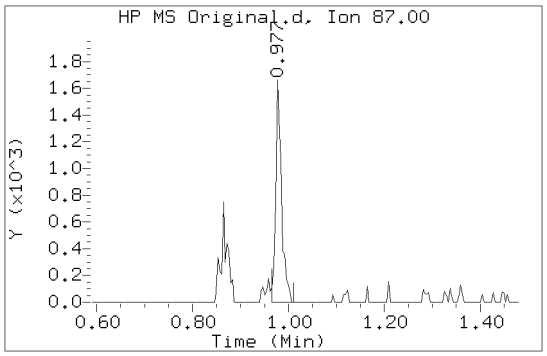
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12-Aug-2023
22:44



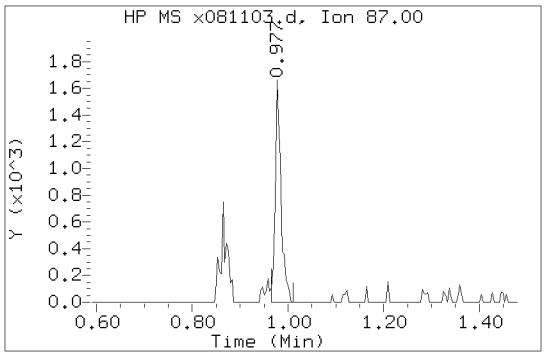
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23-Aug-2023
11:12



BEFORE
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HEIGHT
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12-Aug-2023
22:44



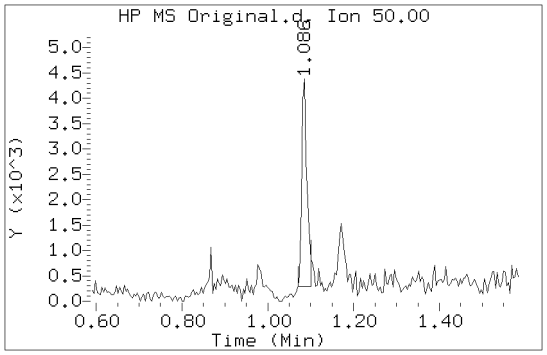
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1663
23-Aug-2023
11:12



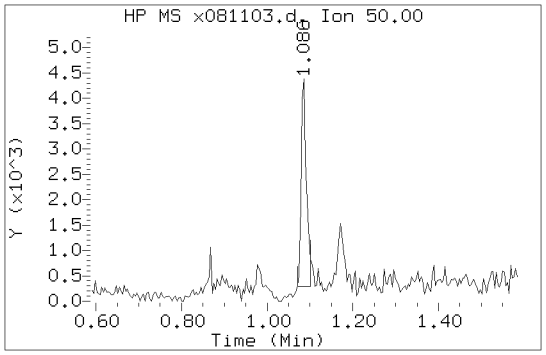
Chloromethane (74-87-3)

Reason Code:

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22:44



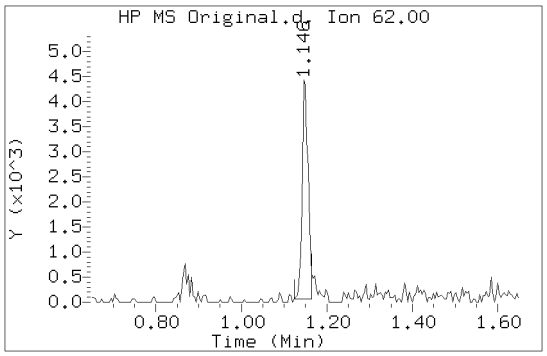
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23-Aug-2023
11:12



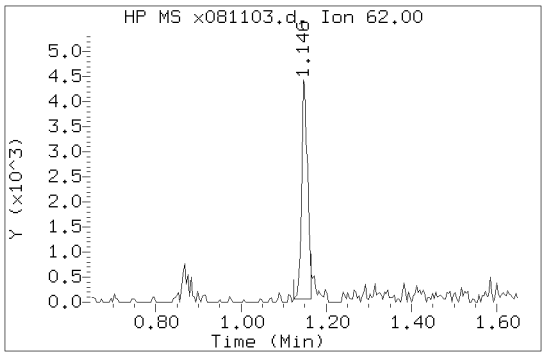
Vinyl Chloride (75-01-4)

Reason Code:

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3407
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12-Aug-2023
22:44



AFTER
MASS
62
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4404
HEIGHT
4375
23-Aug-2023
11:12



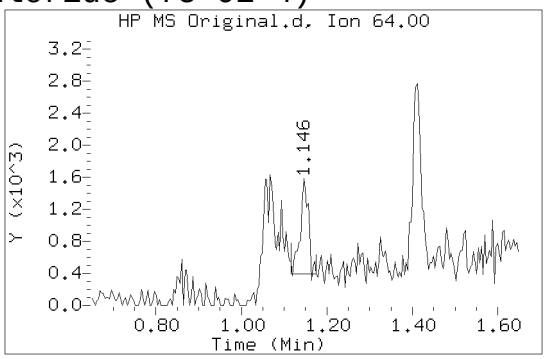
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InstruID : voa6.i
LabSampID : VSTD000.5

Vinyl Chloride (75-01-4)

Reason Code:

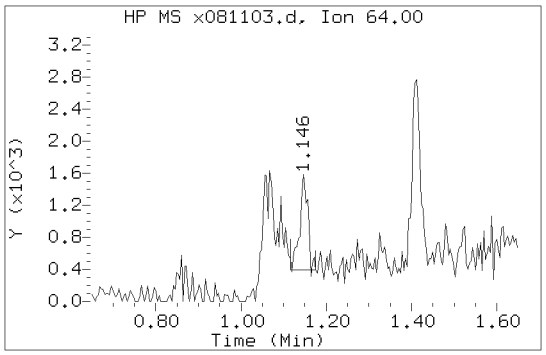
BEFORE

MASS
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AREA
1433
HEIGHT
1663
12-Aug-2023
22:44



AFTER

MASS
64
AREA
1641
HEIGHT
1196
23-Aug-2023
11:12

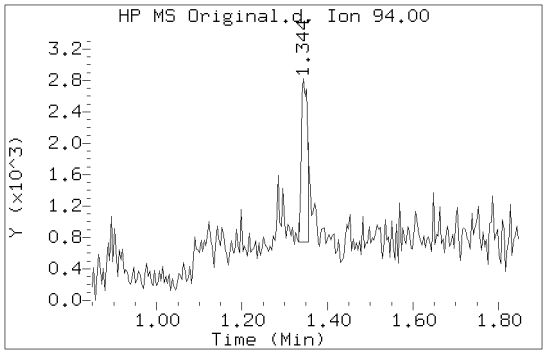


Bromomethane (74-83-9)

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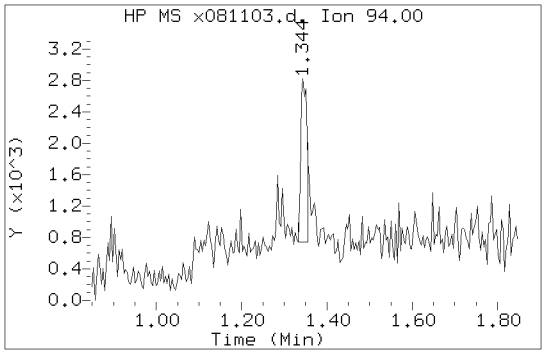
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HEIGHT
4097
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22:44



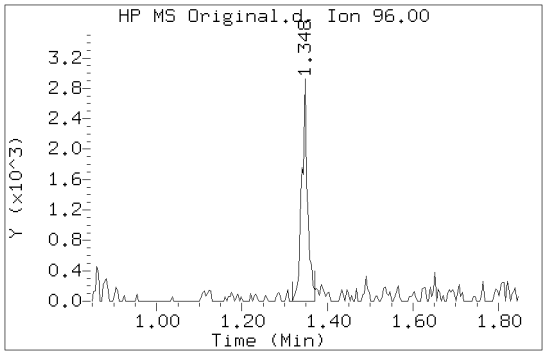
AFTER

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94
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2080
23-Aug-2023
11:12



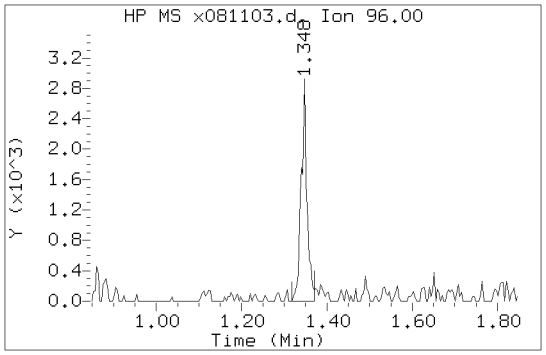
BEFORE

MASS
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AREA
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HEIGHT
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22:44



AFTER

MASS
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AREA
2813
HEIGHT
2924
23-Aug-2023
11:12

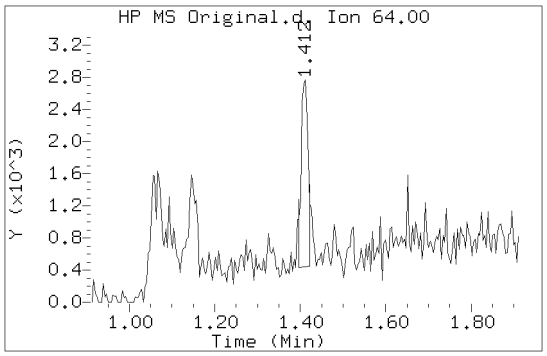


Chloroethane (75-00-3)

Reason Code:

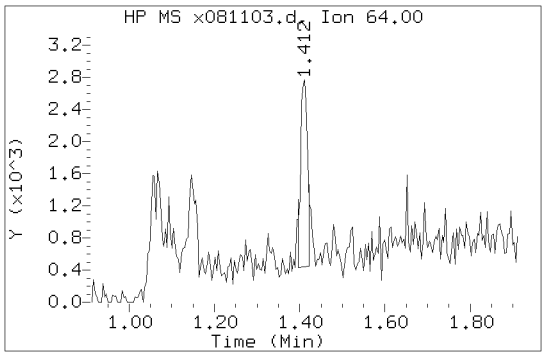
BEFORE

MASS
62
AREA
4404
HEIGHT
4375
12-Aug-2023
22:44



AFTER

MASS
64
AREA
2768
HEIGHT
2330
23-Aug-2023
11:12



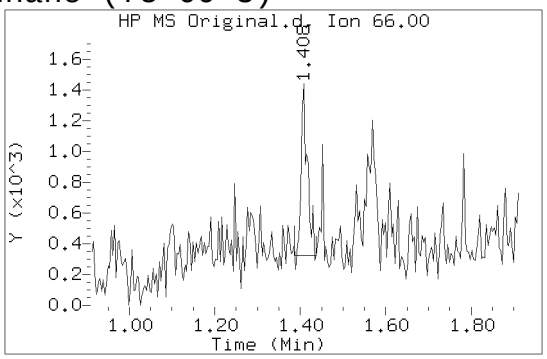
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Chloroethane (75-00-3)

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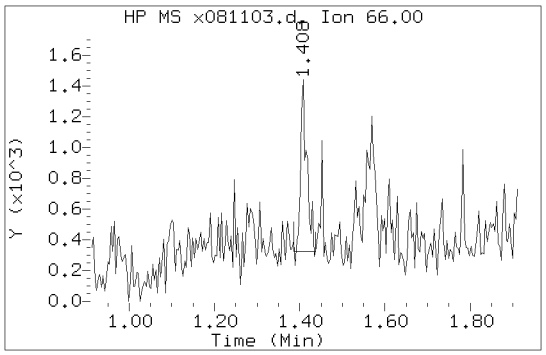
BEFORE

MASS
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1641
HEIGHT
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22:44



AFTER

MASS
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1131
HEIGHT
1114
23-Aug-2023
11:12

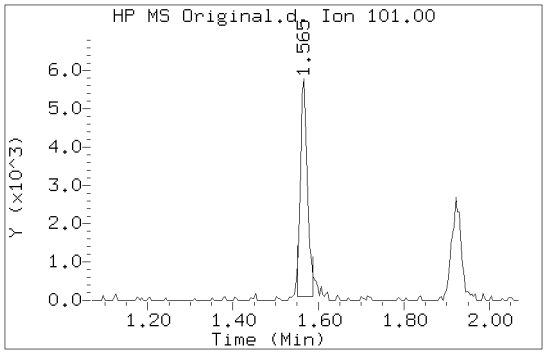


Trichlorofluoromethane (75-69-4)

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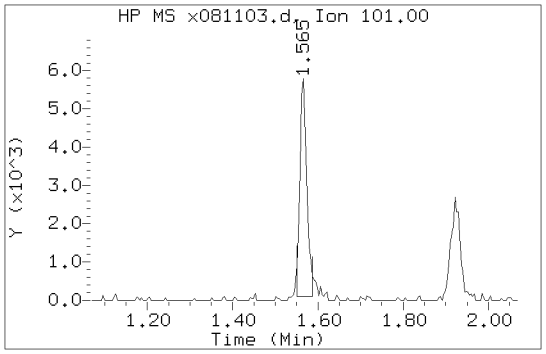
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12-Aug-2023
22:44



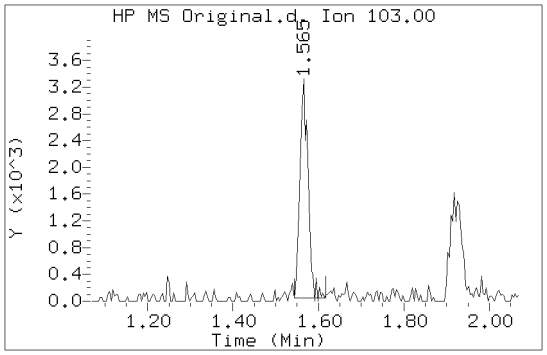
AFTER

MASS
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HEIGHT
5688
23-Aug-2023
11:12



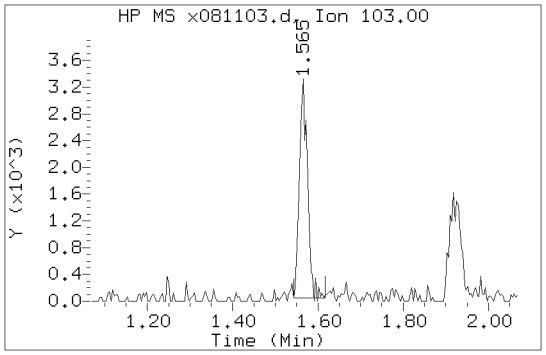
BEFORE

MASS
96
AREA
2813
HEIGHT
2924
12-Aug-2023
22:44



AFTER

MASS
103
AREA
4414
HEIGHT
3270
23-Aug-2023
11:12

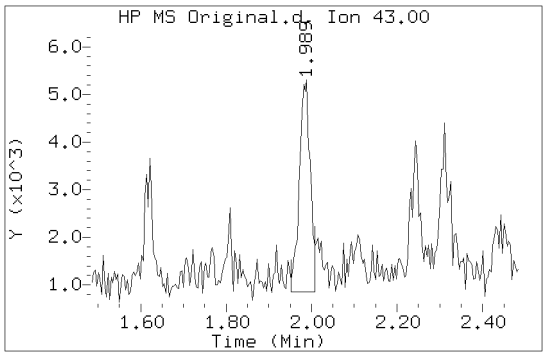


Acetone (67-64-1)

Reason Code:

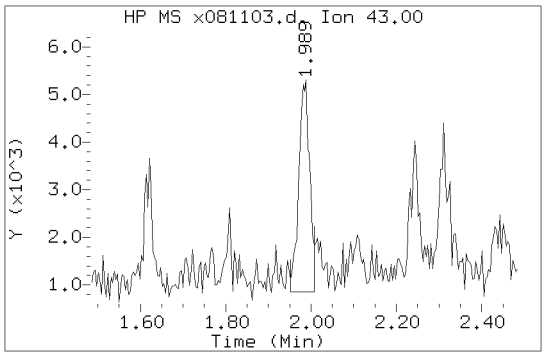
BEFORE

MASS
64
AREA
2768
HEIGHT
2330
12-Aug-2023
22:44



AFTER

MASS
43
AREA
8080
HEIGHT
4452
23-Aug-2023
11:12



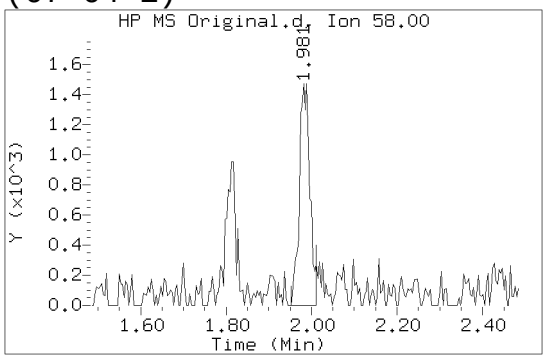
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Acetone (67-64-1)

Reason Code:

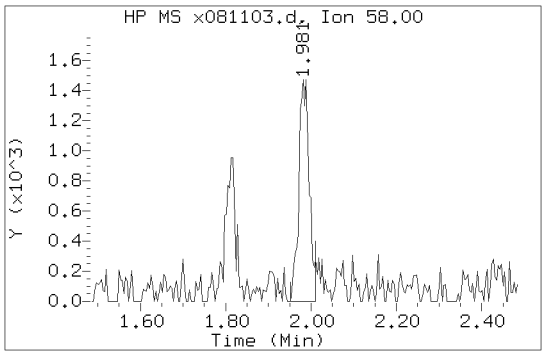
BEFORE

MASS
66
AREA
1131
HEIGHT
1114
12-Aug-2023
22:44



AFTER

MASS
58
AREA
2589
HEIGHT
1473
23-Aug-2023
11:12

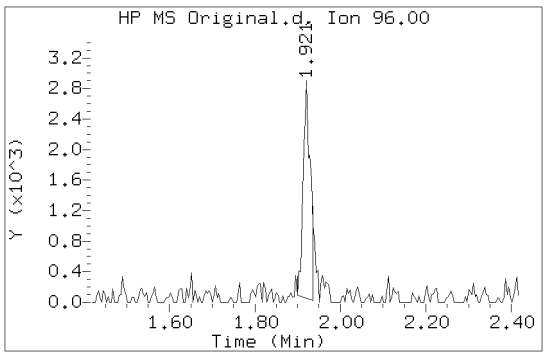


1,1-Dichloroethene (75-35-4)

Reason Code:

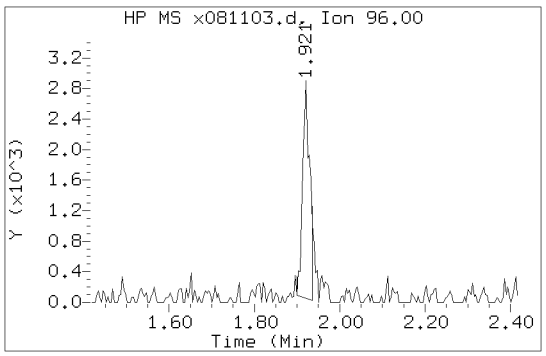
BEFORE

MASS
101
AREA
6710
HEIGHT
5688
12-Aug-2023
22:44



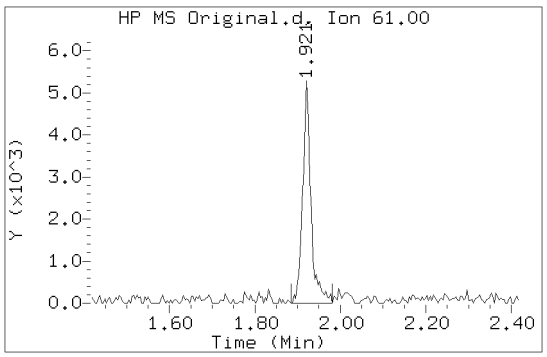
AFTER

MASS
96
AREA
3414
HEIGHT
2850
23-Aug-2023
11:12



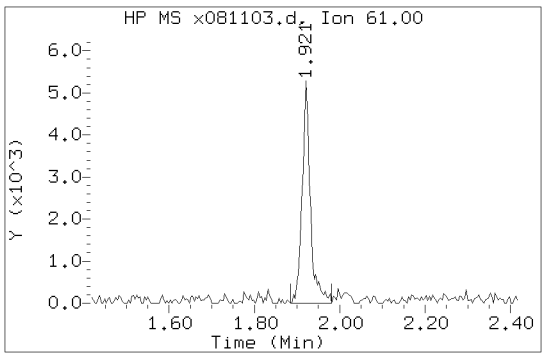
BEFORE

MASS
103
AREA
4414
HEIGHT
3270
12-Aug-2023
22:44



AFTER

MASS
61
AREA
7312
HEIGHT
5285
23-Aug-2023
11:12

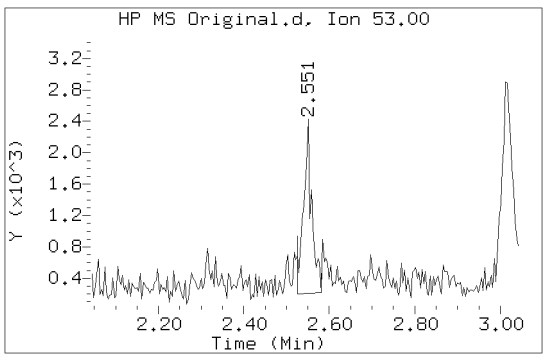


Acrylonitrile (107-13-1)

Reason Code:

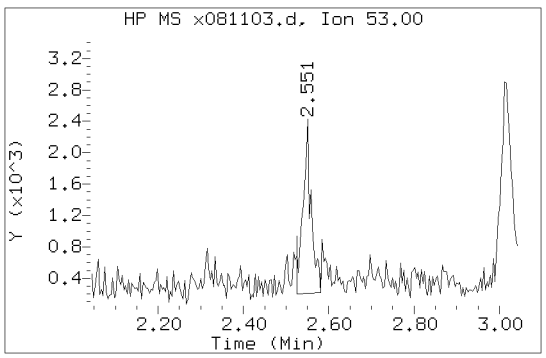
BEFORE

MASS
43
AREA
8080
HEIGHT
4452
12-Aug-2023
22:44



AFTER

MASS
53
AREA
3027
HEIGHT
2218
23-Aug-2023
11:12

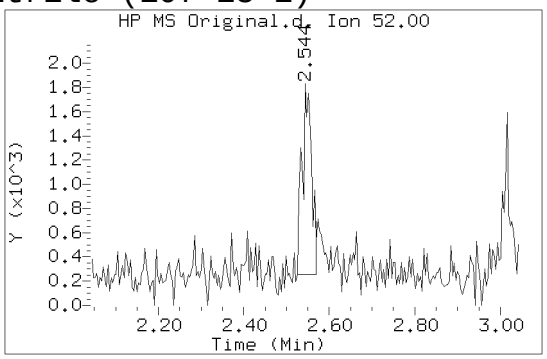


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

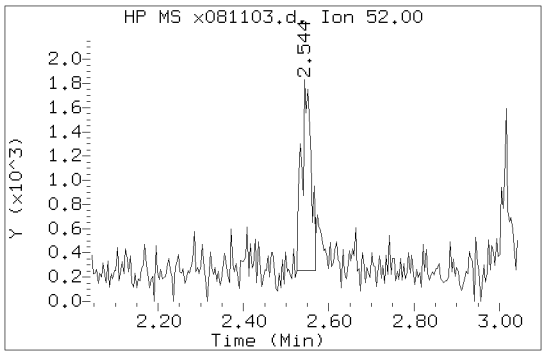
Acrylonitrile (107-13-1)

Reason Code:

BEFORE
MASS
58
AREA
2589
HEIGHT
1473
12-Aug-2023
22:44



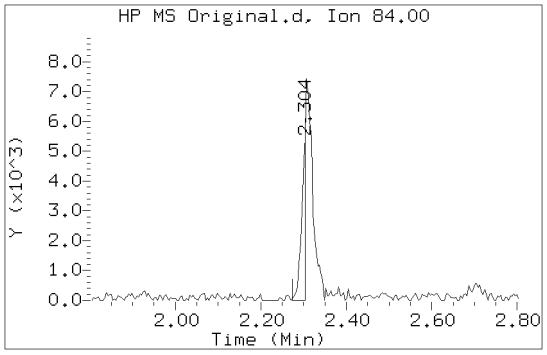
AFTER
MASS
52
AREA
2521
HEIGHT
1577
23-Aug-2023
11:12



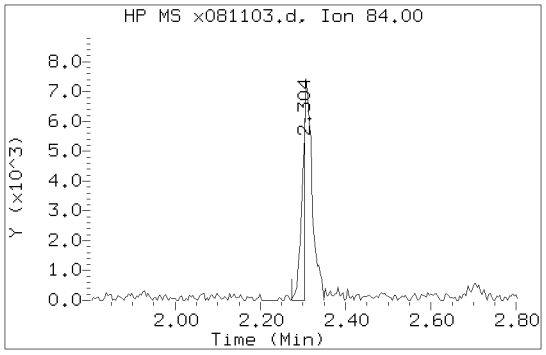
Methylene Chloride (75-09-2)

Reason Code:

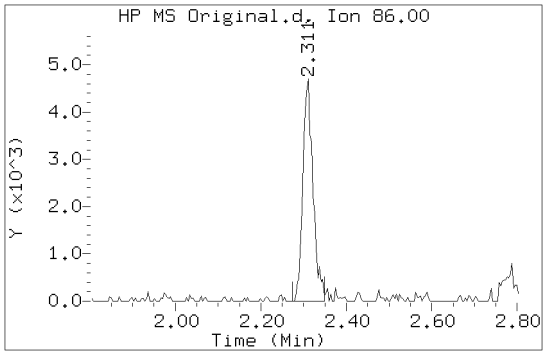
BEFORE
MASS
96
AREA
3414
HEIGHT
2850
12-Aug-2023
22:44



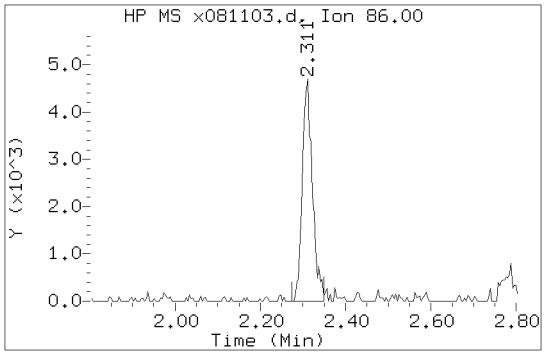
AFTER
MASS
84
AREA
3889
HEIGHT
5468
23-Aug-2023
11:12



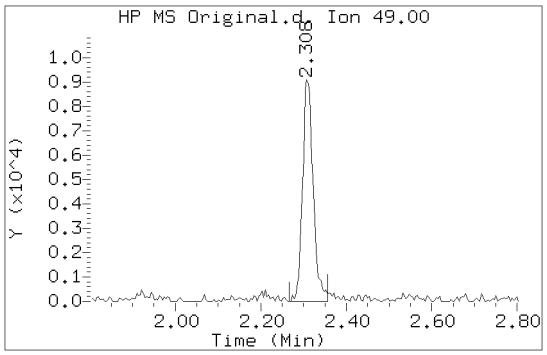
BEFORE
MASS
61
AREA
7312
HEIGHT
5285
12-Aug-2023
22:44



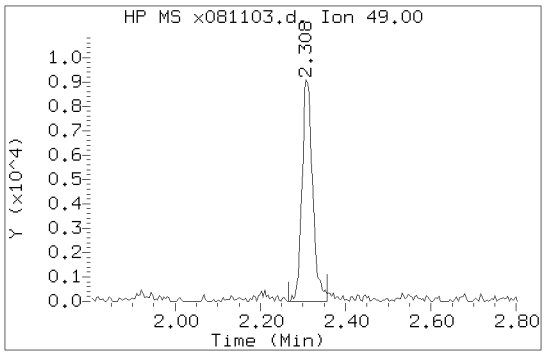
AFTER
MASS
86
AREA
7903
HEIGHT
4700
23-Aug-2023
11:12



BEFORE
MASS
63
AREA
3064
HEIGHT
2093
12-Aug-2023
22:44



AFTER
MASS
49
AREA
16117
HEIGHT
9091
23-Aug-2023
11:12

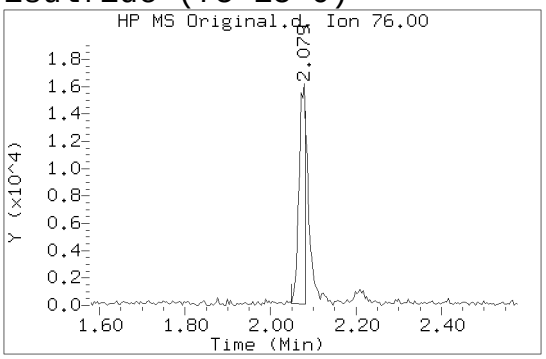


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

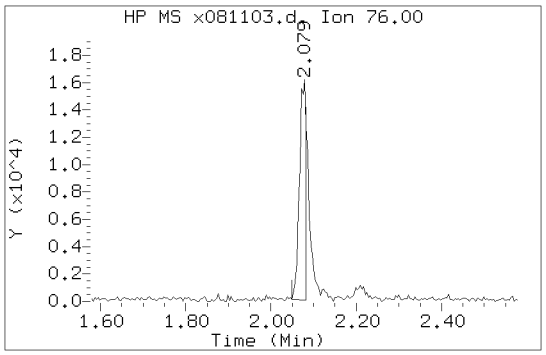
Carbon Disulfide (75-15-0)

Reason Code:

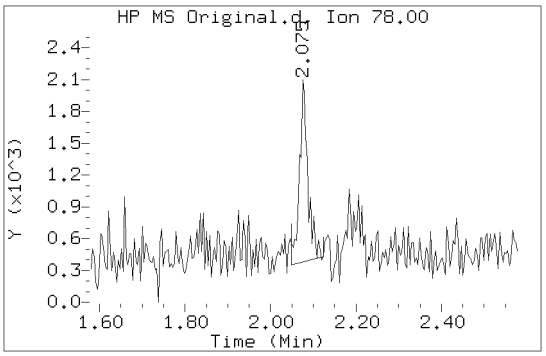
BEFORE
MASS
53
AREA
3027
HEIGHT
2218
12-Aug-2023
22:44



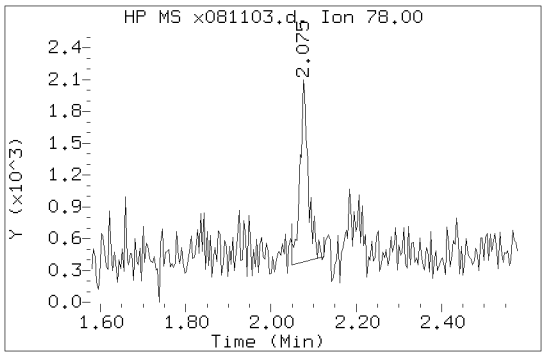
AFTER
MASS
76
AREA
18059
HEIGHT
16106
23-Aug-2023
11:12



BEFORE
MASS
52
AREA
2521
HEIGHT
1577
12-Aug-2023
22:44



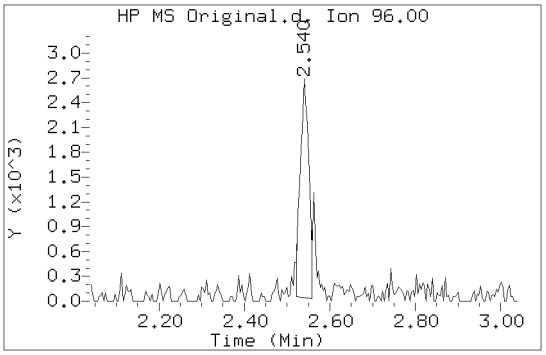
AFTER
MASS
78
AREA
2390
HEIGHT
1716
23-Aug-2023
11:12



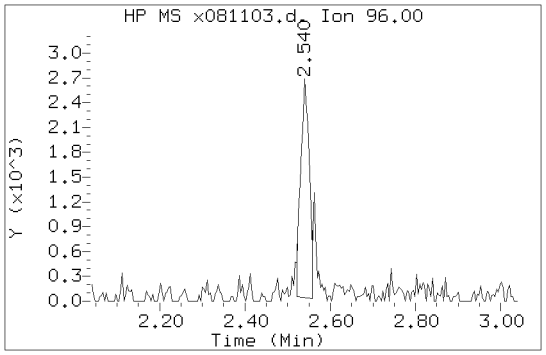
trans-1,2-Dichloroethene (156-60-5)

Reason Code:

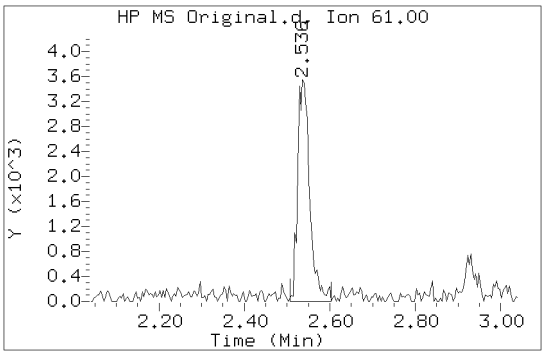
BEFORE
MASS
84
AREA
3889
HEIGHT
5468
12-Aug-2023
22:44



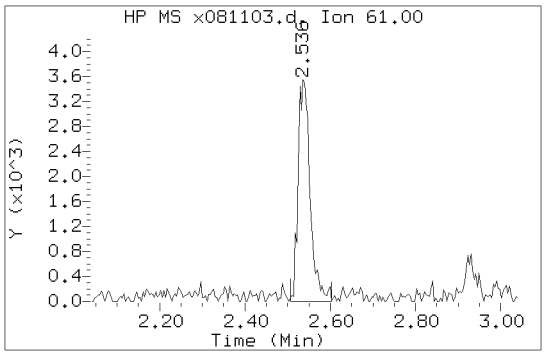
AFTER
MASS
96
AREA
3848
HEIGHT
2643
23-Aug-2023
11:12



BEFORE
MASS
86
AREA
7903
HEIGHT
4700
12-Aug-2023
22:44



AFTER
MASS
61
AREA
7075
HEIGHT
3548
23-Aug-2023
11:12



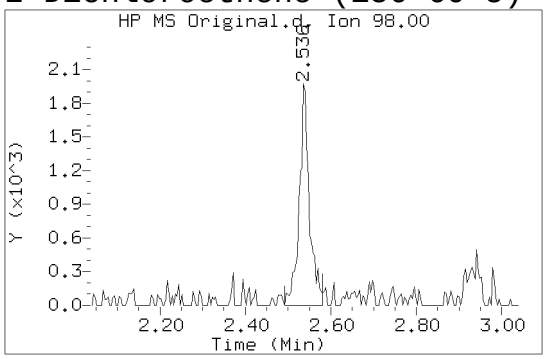
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

trans-1,2-Dichloroethene (156-60-5)

Reason Code:

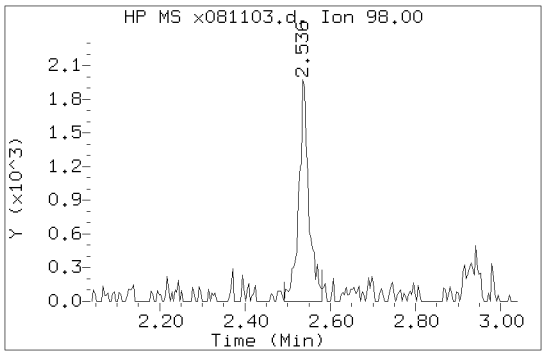
BEFORE

MASS
49
AREA
16117
HEIGHT
9091
12-Aug-2023
22:44



AFTER

MASS
98
AREA
3286
HEIGHT
1974
23-Aug-2023
11:12

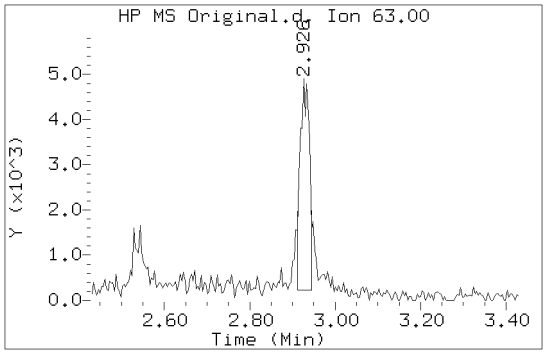


1,1-Dichloroethane (75-34-3)

Reason Code:

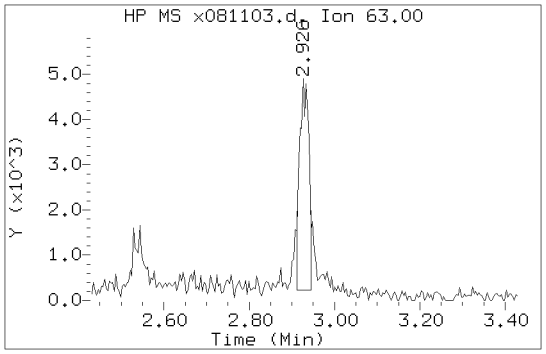
BEFORE

MASS
73
AREA
11988
HEIGHT
5726
12-Aug-2023
22:44



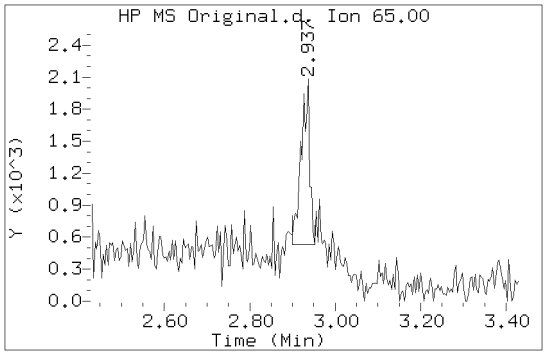
AFTER

MASS
63
AREA
7346
HEIGHT
4676
23-Aug-2023
11:12



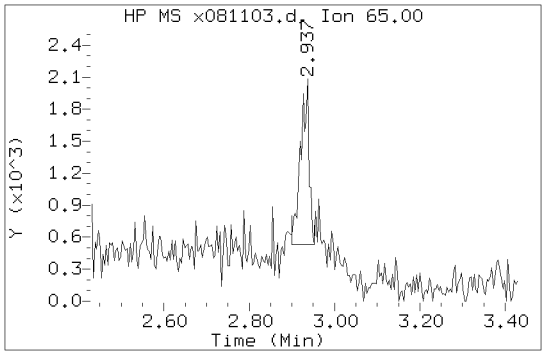
BEFORE

MASS
57
AREA
5770
HEIGHT
2619
12-Aug-2023
22:44



AFTER

MASS
65
AREA
2162
HEIGHT
1553
23-Aug-2023
11:12

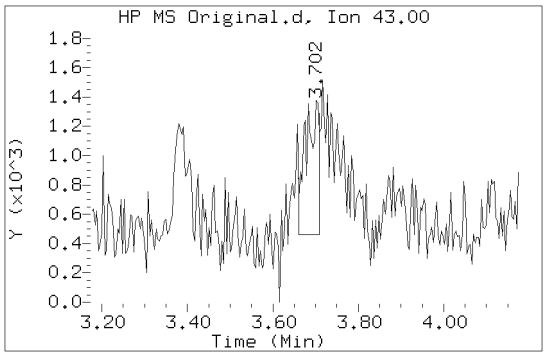


2-Butanone (78-93-3)

Reason Code:

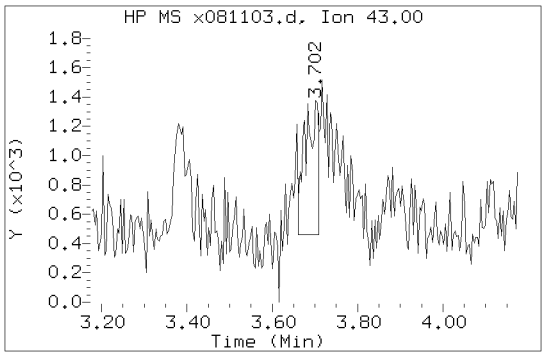
BEFORE

MASS
76
AREA
18059
HEIGHT
16106
12-Aug-2023
22:44



AFTER

MASS
43
AREA
2017
HEIGHT
919
23-Aug-2023
11:12



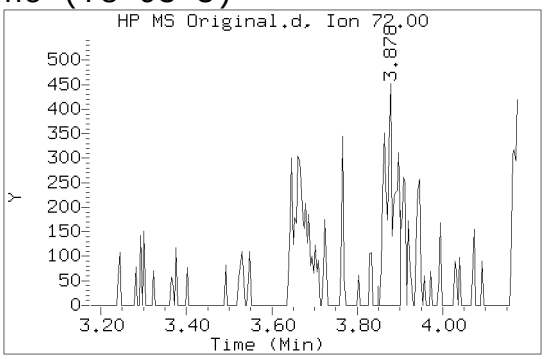
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)

Reason Code:

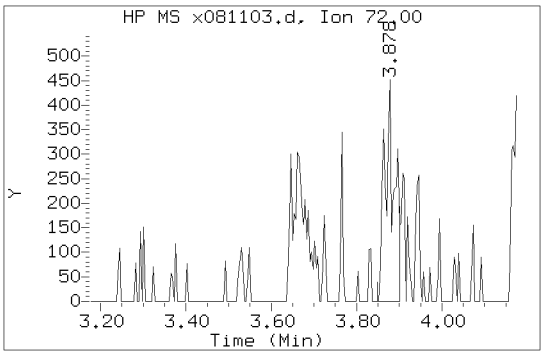
BEFORE

MASS
78
AREA
2390
HEIGHT
1716
12-Aug-2023
22:44



AFTER

MASS
72
AREA
703
HEIGHT
452
23-Aug-2023
11:12

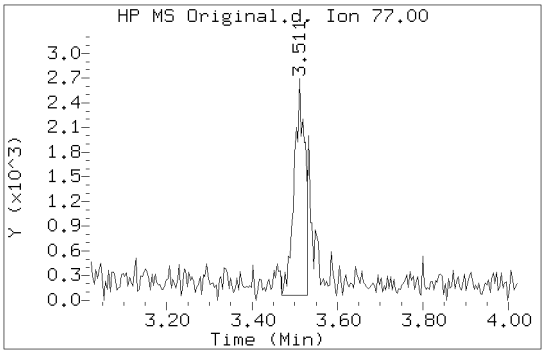


2,2-Dichloropropane (594-20-7)

Reason Code:

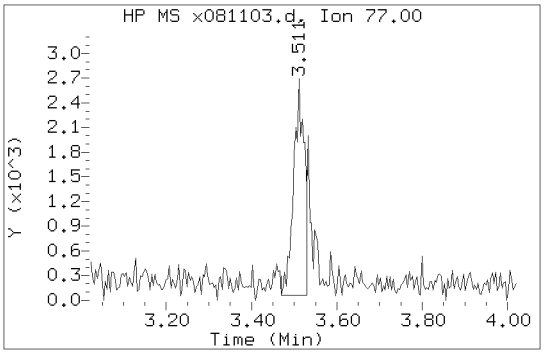
BEFORE

MASS
96
AREA
3848
HEIGHT
2643
12-Aug-2023
22:44



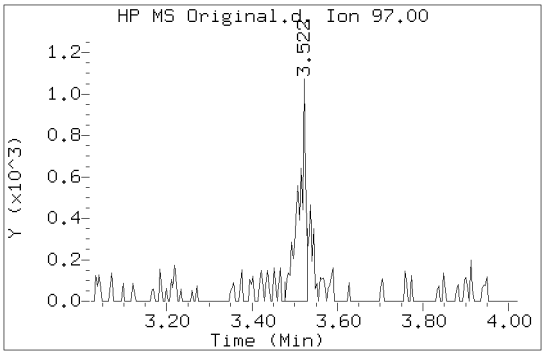
AFTER

MASS
77
AREA
4612
HEIGHT
2627
23-Aug-2023
11:12



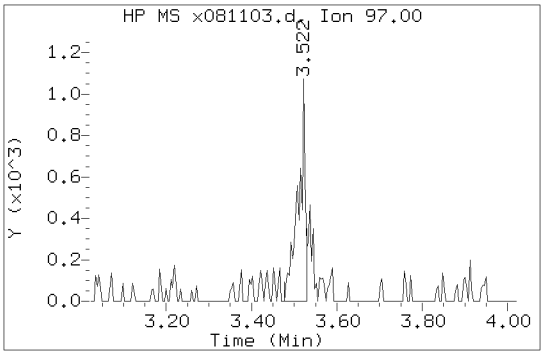
BEFORE

MASS
61
AREA
7075
HEIGHT
3548
12-Aug-2023
22:44



AFTER

MASS
97
AREA
1245
HEIGHT
1073
23-Aug-2023
11:12

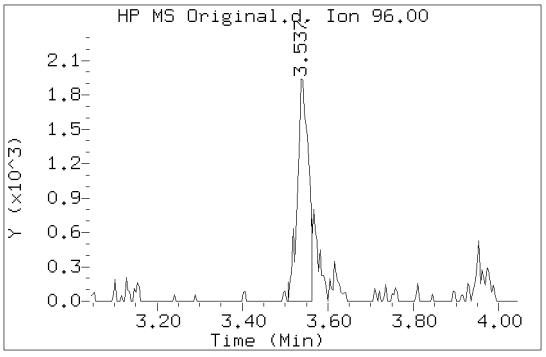


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

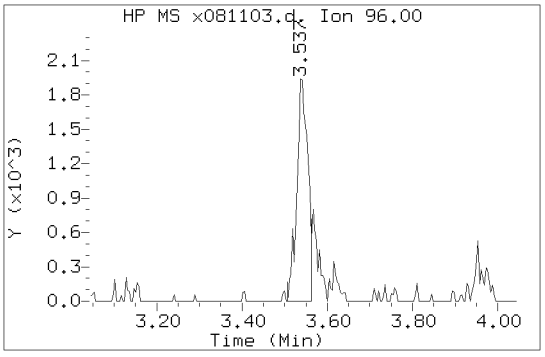
BEFORE

MASS
43
AREA
22253
HEIGHT
9580
12-Aug-2023
22:44



AFTER

MASS
96
AREA
3574
HEIGHT
1940
23-Aug-2023
11:12

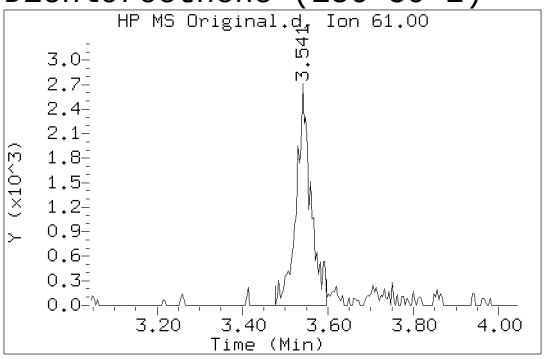


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InstruID : voa6.i
LabSampID : VSTD000.5

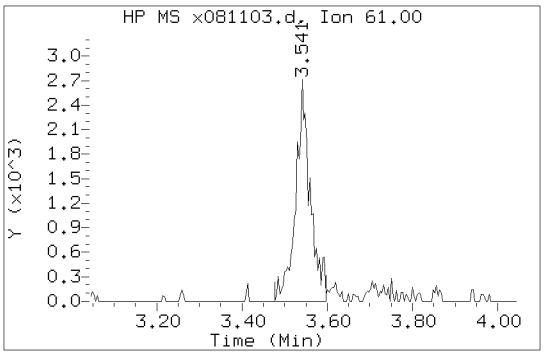
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

BEFORE
MASS
86
AREA
1808
HEIGHT
995
12-Aug-2023
22:44



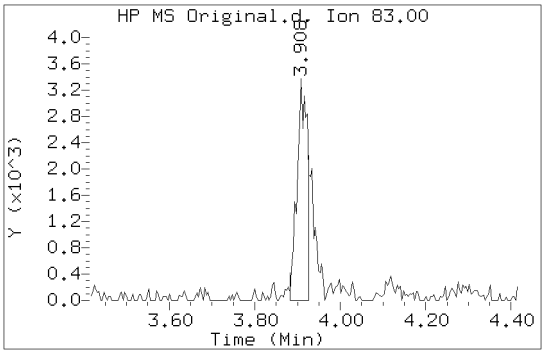
AFTER
MASS
61
AREA
6484
HEIGHT
2712
23-Aug-2023
11:12



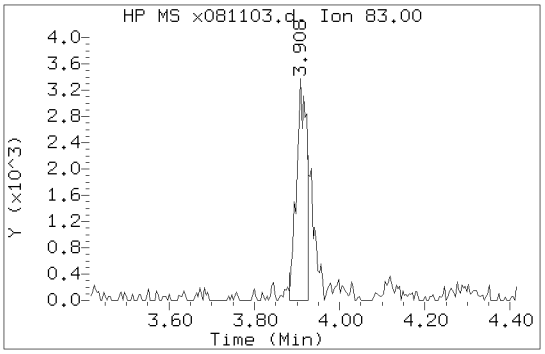
Chloroform (67-66-3)

Reason Code:

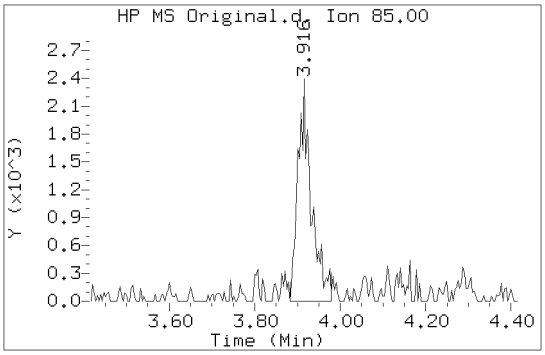
BEFORE
MASS
63
AREA
7346
HEIGHT
4676
12-Aug-2023
22:44



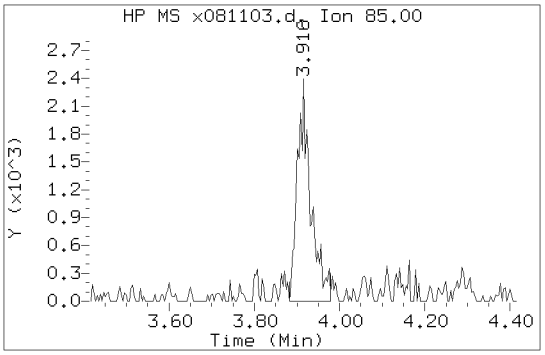
AFTER
MASS
83
AREA
5756
HEIGHT
3376
23-Aug-2023
11:12



BEFORE
MASS
65
AREA
2162
HEIGHT
1553
12-Aug-2023
22:44



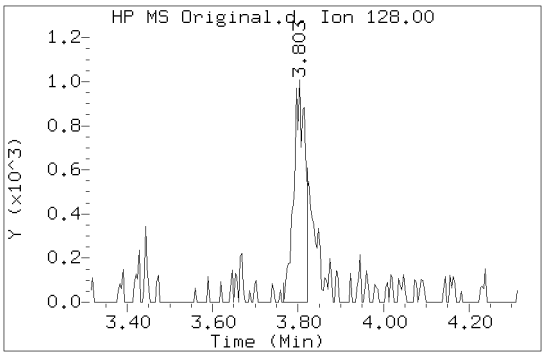
AFTER
MASS
85
AREA
5228
HEIGHT
2394
23-Aug-2023
11:12



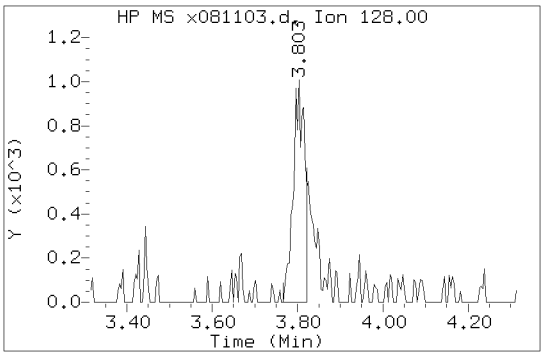
Bromochloromethane (74-97-5)

Reason Code:

BEFORE
MASS
43
AREA
2017
HEIGHT
919
12-Aug-2023
22:44



AFTER
MASS
128
AREA
1872
HEIGHT
1008
23-Aug-2023
11:12

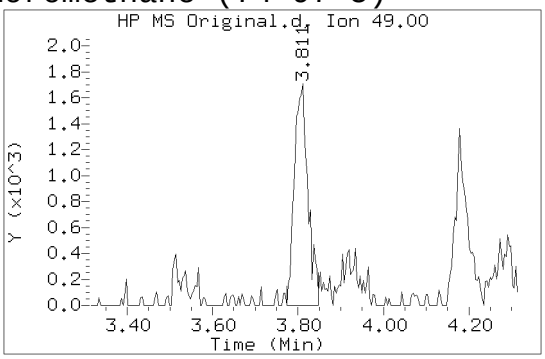


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Bromochloromethane (74-97-5)

BEFORE

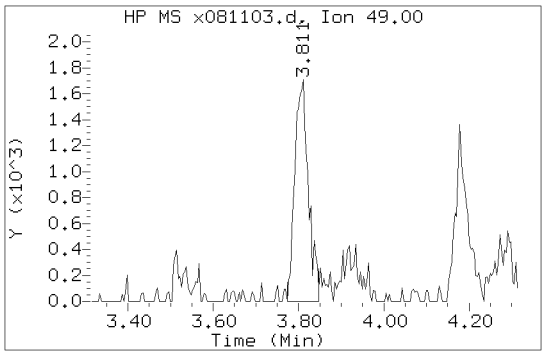
MASS
72
AREA
703
HEIGHT
452
12-Aug-2023
22:44



Reason Code:

AFTER

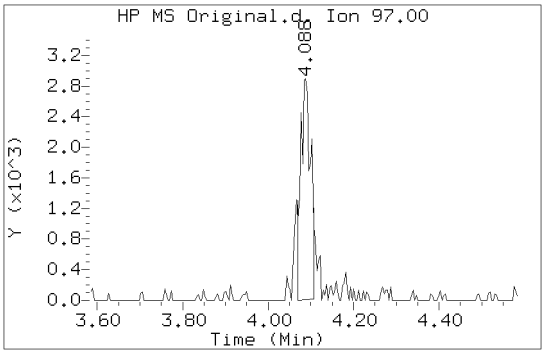
MASS
49
AREA
3815
HEIGHT
1708
23-Aug-2023
11:12



1,1,1-Trichloroethane (71-55-6)

BEFORE

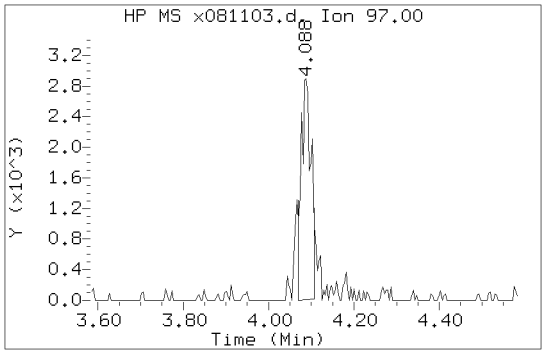
MASS
77
AREA
4612
HEIGHT
2627
12-Aug-2023
22:44



Reason Code:

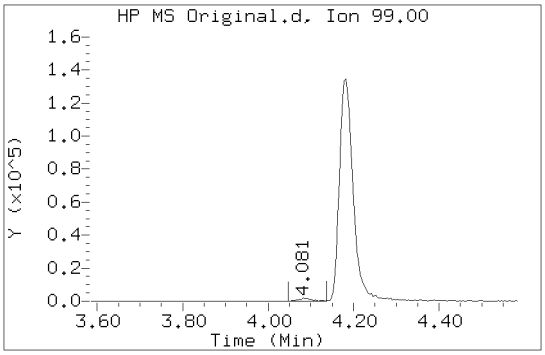
AFTER

MASS
97
AREA
4852
HEIGHT
2888
23-Aug-2023
11:12



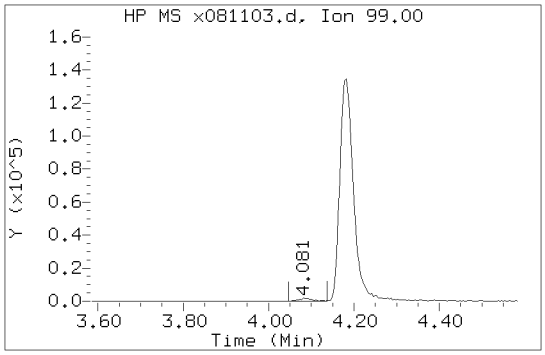
BEFORE

MASS
97
AREA
1245
HEIGHT
1073
12-Aug-2023
22:44



AFTER

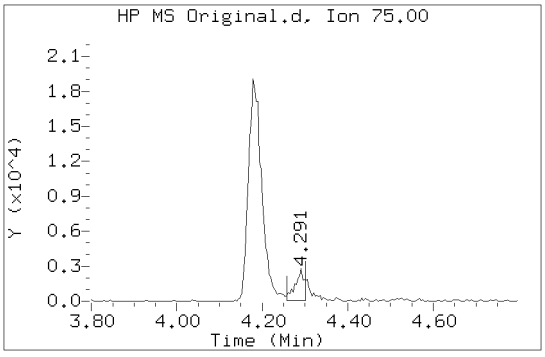
MASS
99
AREA
3886
HEIGHT
1872
23-Aug-2023
11:12



1,1-Dichloropropene (563-58-6)

BEFORE

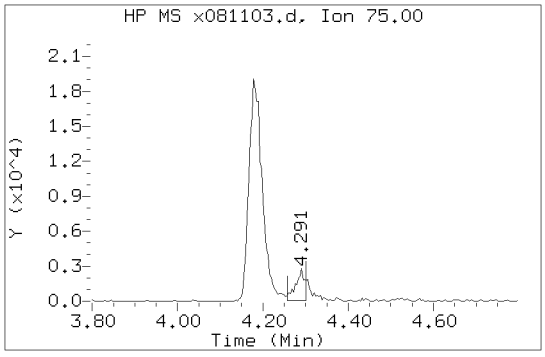
MASS
96
AREA
3574
HEIGHT
1940
12-Aug-2023
22:44



Reason Code:

AFTER

MASS
75
AREA
4132
HEIGHT
2765
23-Aug-2023
11:12

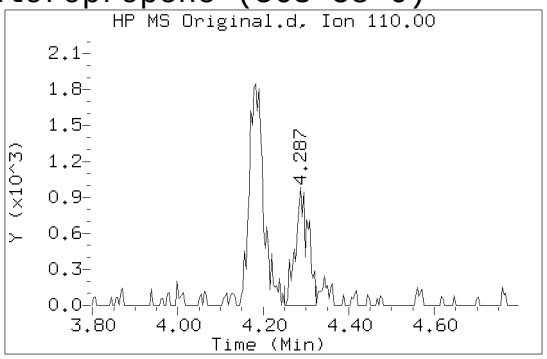


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

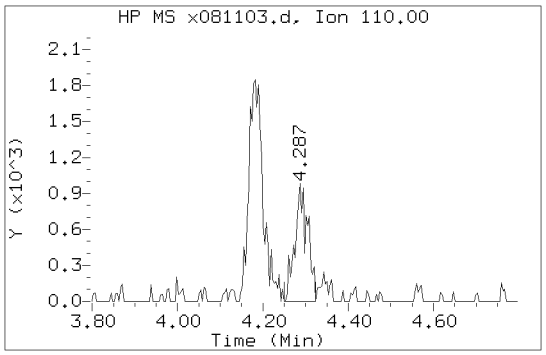
1,1-Dichloropropene (563-58-6)

Reason Code:

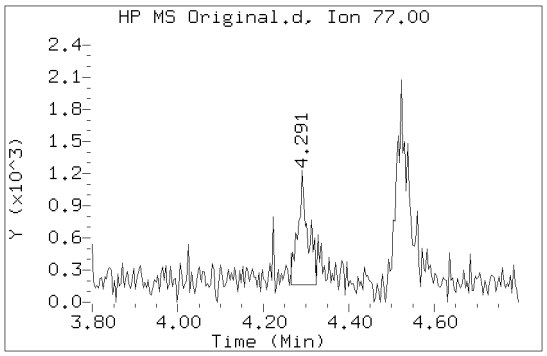
BEFORE
MASS
61
AREA
6484
HEIGHT
2712
12-Aug-2023
22:44



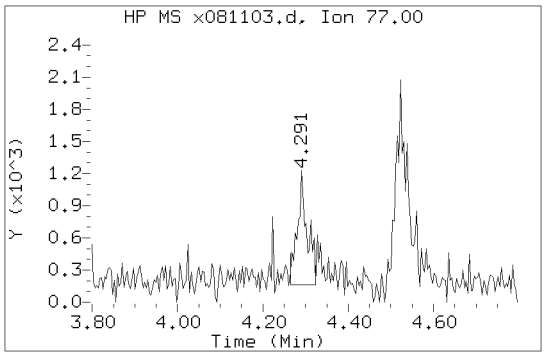
AFTER
MASS
110
AREA
2063
HEIGHT
982
23-Aug-2023
11:12



BEFORE
MASS
98
AREA
3005
HEIGHT
1467
12-Aug-2023
22:44



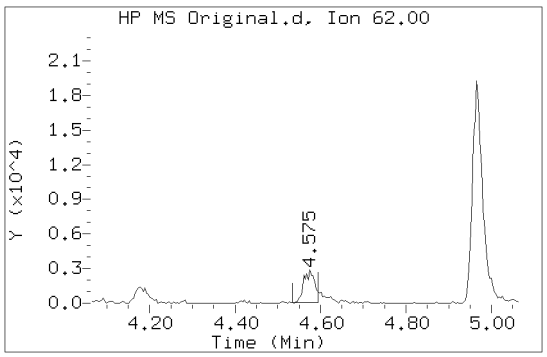
AFTER
MASS
77
AREA
1739
HEIGHT
1070
23-Aug-2023
11:12



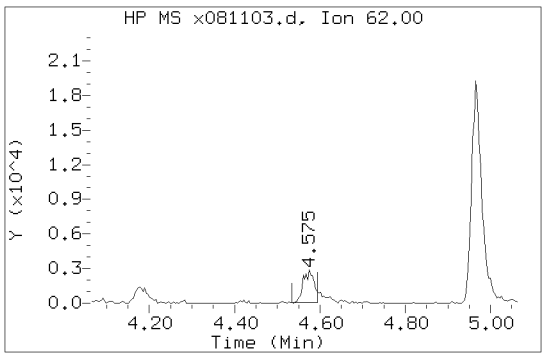
1,2-Dichloroethane (107-06-2)

Reason Code:

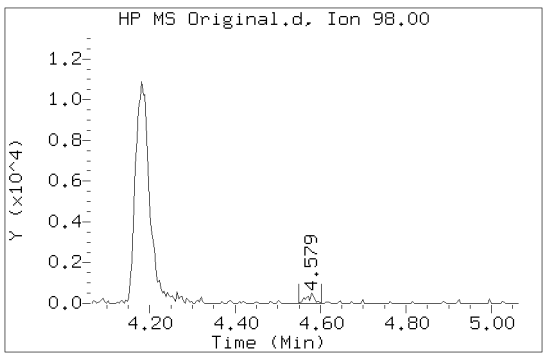
BEFORE
MASS
83
AREA
5756
HEIGHT
3376
12-Aug-2023
22:44



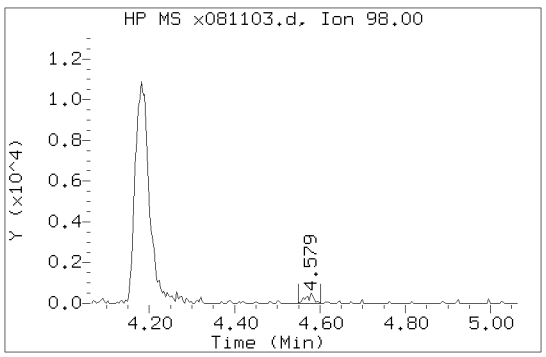
AFTER
MASS
62
AREA
4942
HEIGHT
2820
23-Aug-2023
11:12



BEFORE
MASS
85
AREA
5228
HEIGHT
2394
12-Aug-2023
22:44



AFTER
MASS
98
AREA
620
HEIGHT
519
23-Aug-2023
11:12

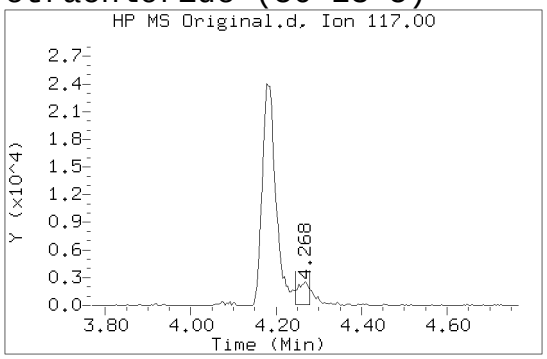


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InstruID : voa6.i
LabSampID : VSTD000.5

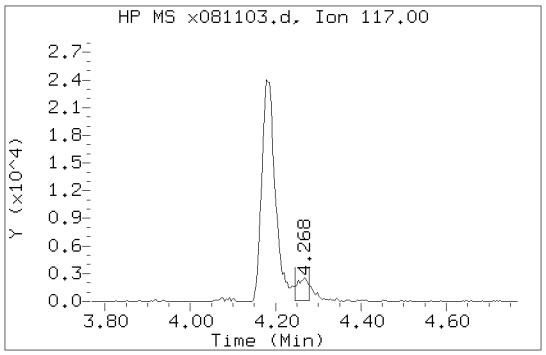
Carbon Tetrachloride (56-23-5)

Reason Code:

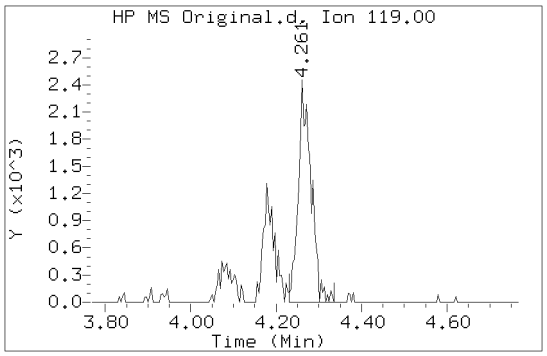
BEFORE
MASS
128
AREA
1872
HEIGHT
1008
12-Aug-2023
22:44



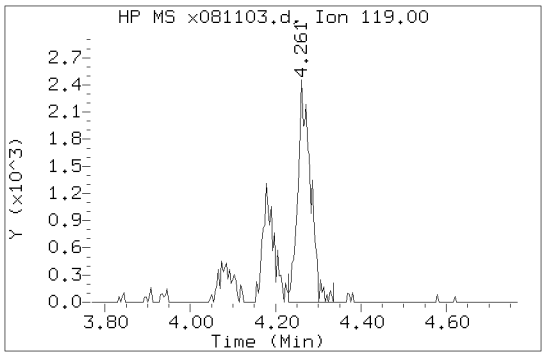
AFTER
MASS
117
AREA
4492
HEIGHT
2452
23-Aug-2023
11:12



BEFORE
MASS
49
AREA
3815
HEIGHT
1708
12-Aug-2023
22:44



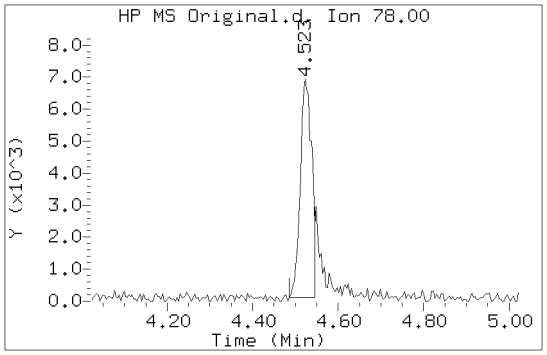
AFTER
MASS
119
AREA
5136
HEIGHT
2455
23-Aug-2023
11:12



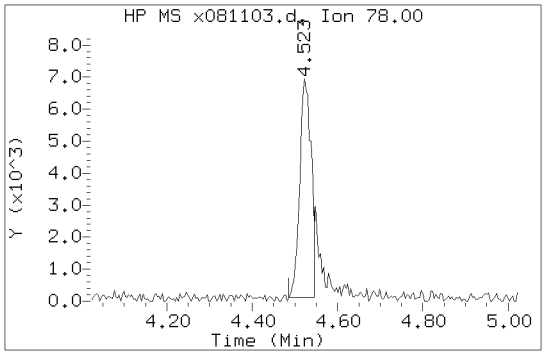
Benzene (71-43-2)

Reason Code:

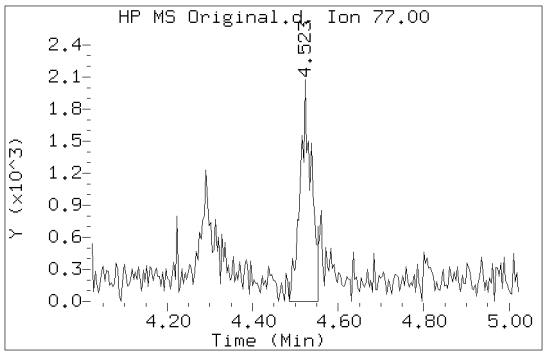
BEFORE
MASS
75
AREA
4132
HEIGHT
2765
12-Aug-2023
22:44



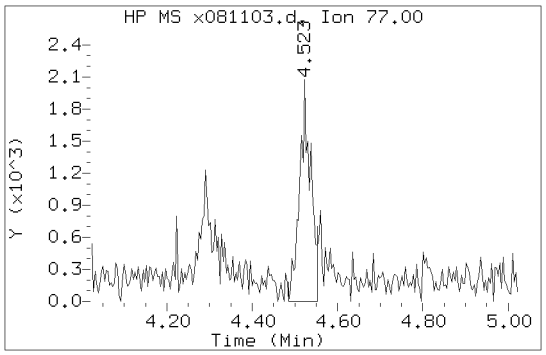
AFTER
MASS
78
AREA
12962
HEIGHT
6832
23-Aug-2023
11:12



BEFORE
MASS
110
AREA
2063
HEIGHT
982
12-Aug-2023
22:44



AFTER
MASS
77
AREA
3841
HEIGHT
2074
23-Aug-2023
11:12



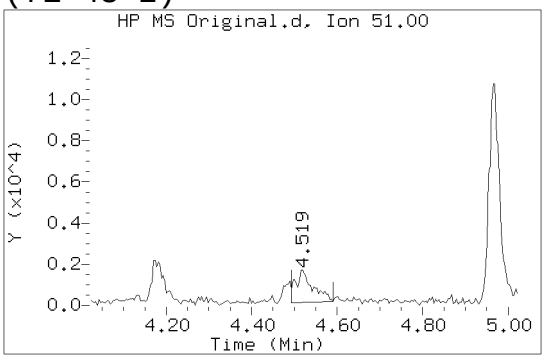
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Benzene (71-43-2)

Reason Code:

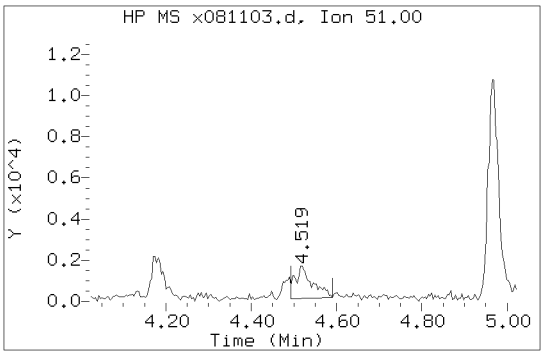
BEFORE

MASS
77
AREA
1739
HEIGHT
1070
12-Aug-2023
22:44



AFTER

MASS
51
AREA
4527
HEIGHT
1570
23-Aug-2023
11:12

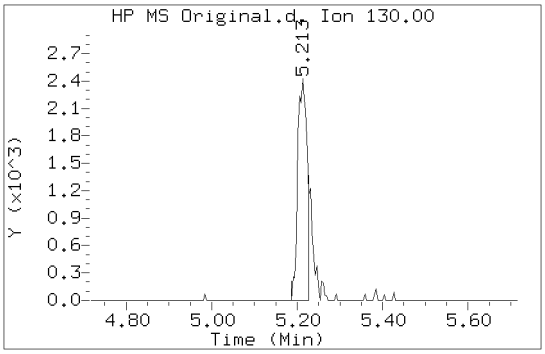


Trichloroethene (79-01-6)

Reason Code:

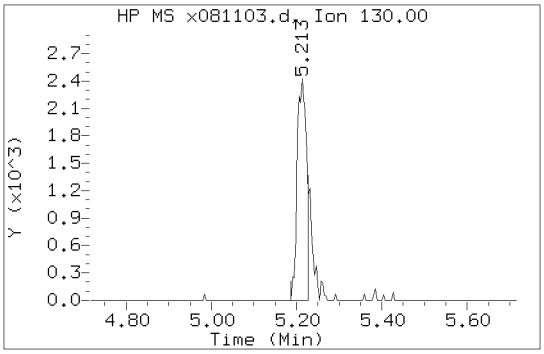
BEFORE

MASS
62
AREA
4942
HEIGHT
2820
12-Aug-2023
22:44



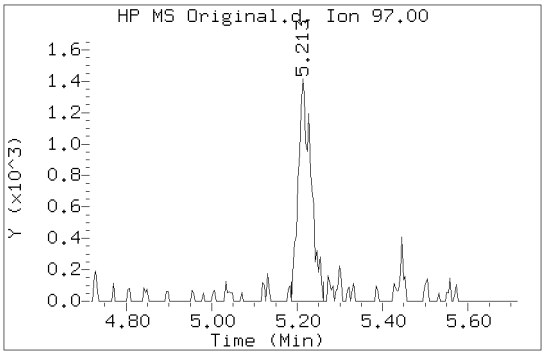
AFTER

MASS
130
AREA
3802
HEIGHT
2426
23-Aug-2023
11:12



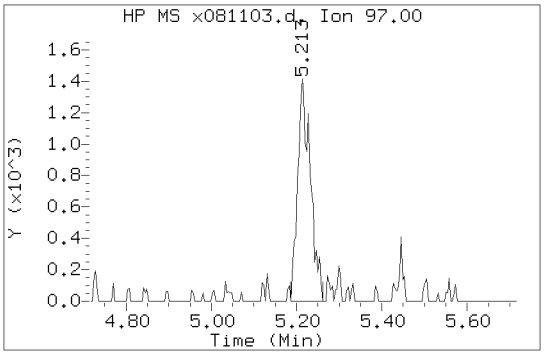
BEFORE

MASS
98
AREA
620
HEIGHT
519
12-Aug-2023
22:44



AFTER

MASS
97
AREA
2959
HEIGHT
1415
23-Aug-2023
11:12

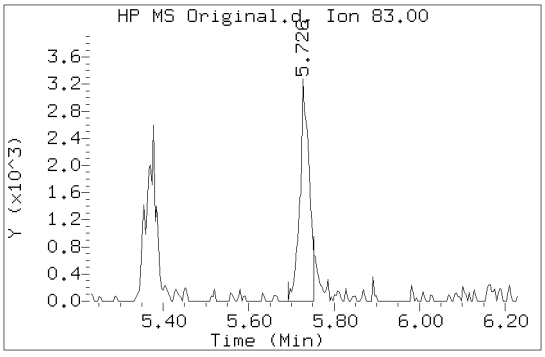


Bromodichloromethane (75-27-4)

Reason Code:

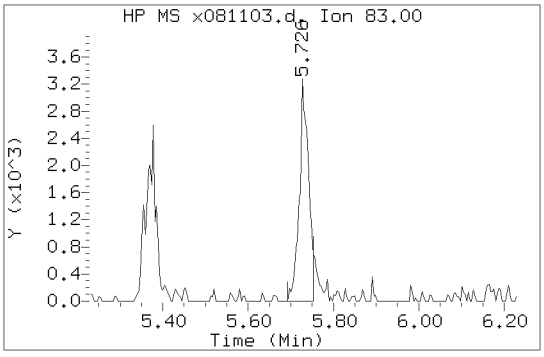
BEFORE

MASS
117
AREA
4492
HEIGHT
2452
12-Aug-2023
22:44



AFTER

MASS
83
AREA
5036
HEIGHT
3277
23-Aug-2023
11:12



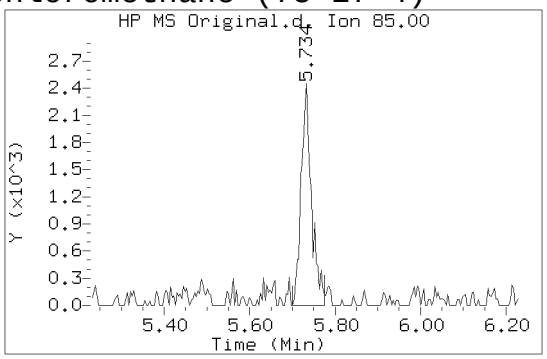
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Bromodichloromethane (75-27-4)

Reason Code:

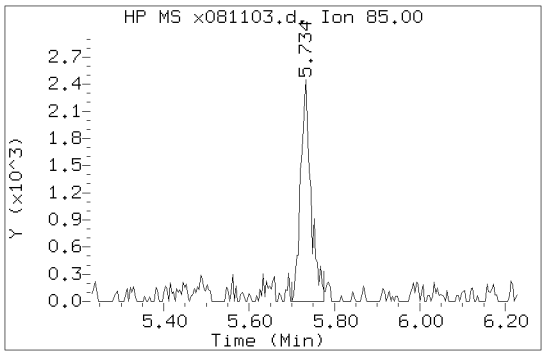
BEFORE

MASS
119
AREA
5136
HEIGHT
2455
12-Aug-2023
22:44



AFTER

MASS
85
AREA
4196
HEIGHT
2450
23-Aug-2023
11:12

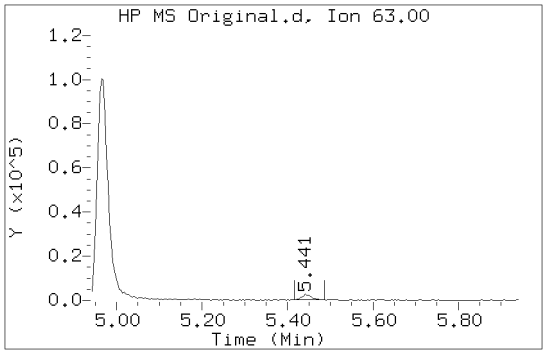


1,2-Dichloropropane (78-87-5)

Reason Code:

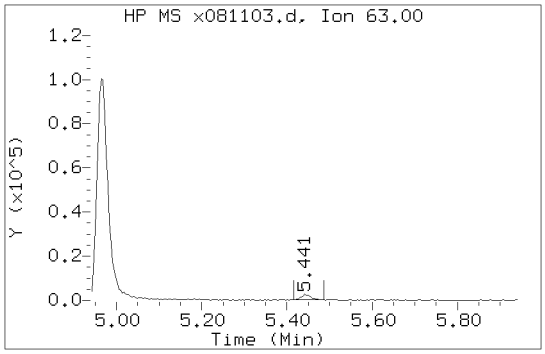
BEFORE

MASS
114
AREA
936474
HEIGHT
509441
12-Aug-2023
22:44



AFTER

MASS
63
AREA
3864
HEIGHT
2635
23-Aug-2023
11:12

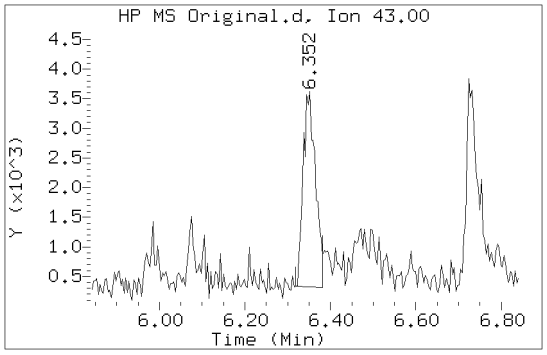


4-Methyl-2-Pentanone (108-10-1)

Reason Code:

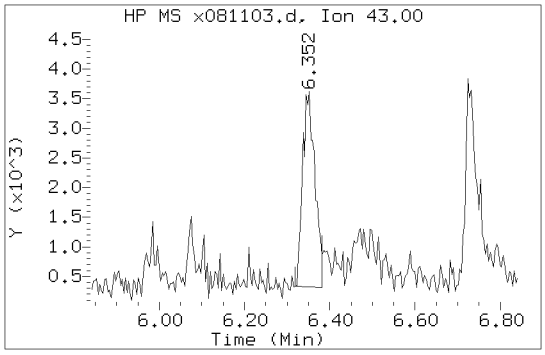
BEFORE

MASS
130
AREA
3802
HEIGHT
2426
12-Aug-2023
22:44



AFTER

MASS
43
AREA
6765
HEIGHT
3307
23-Aug-2023
11:12

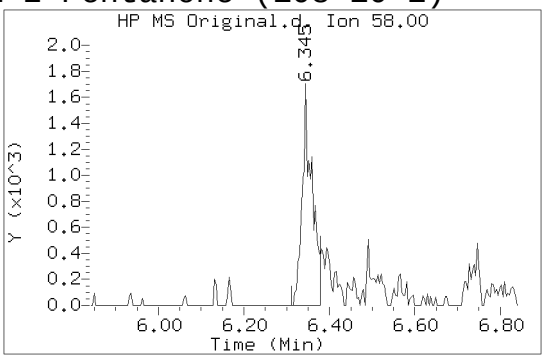


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LabSampID : VSTD000.5

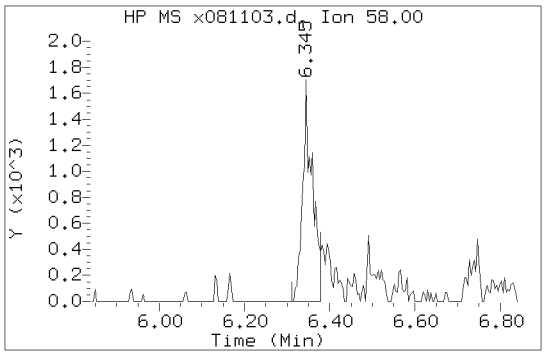
4-Methyl-2-Pentanone (108-10-1)

Reason Code:

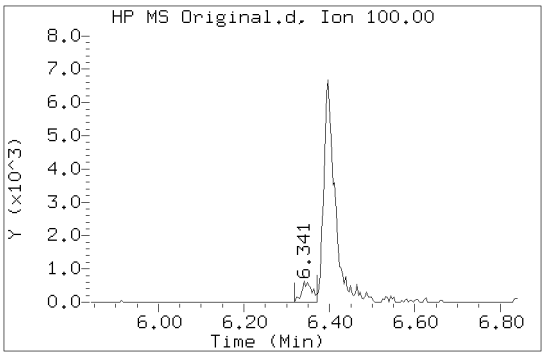
BEFORE
MASS
97
AREA
2959
HEIGHT
1415
12-Aug-2023
22:44



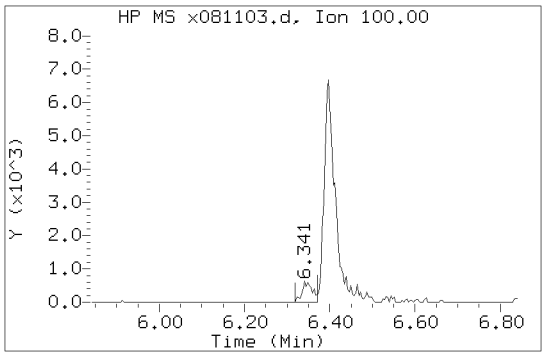
AFTER
MASS
58
AREA
2754
HEIGHT
1705
23-Aug-2023
11:12



BEFORE
MASS
95
AREA
4810
HEIGHT
2295
12-Aug-2023
22:44



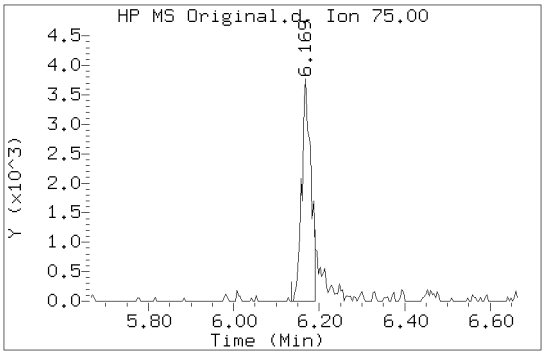
AFTER
MASS
100
AREA
1094
HEIGHT
644
23-Aug-2023
11:12



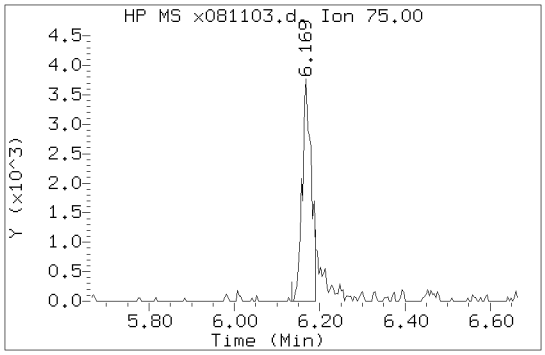
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

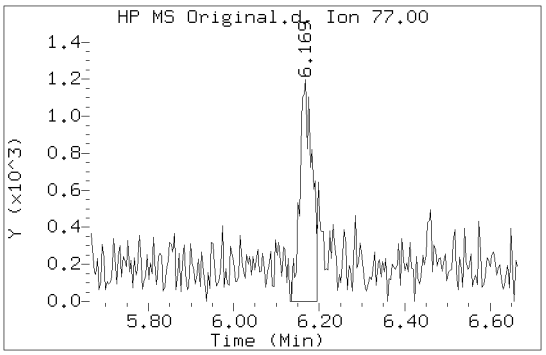
BEFORE
MASS
83
AREA
5036
HEIGHT
3277
12-Aug-2023
22:44



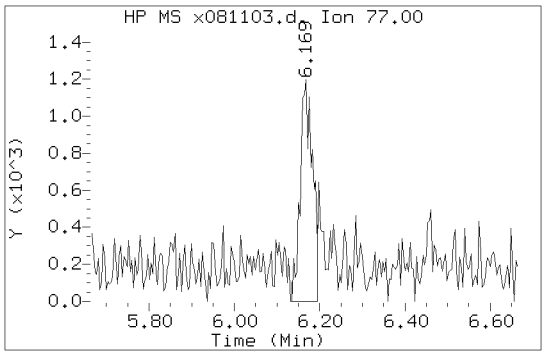
AFTER
MASS
75
AREA
5702
HEIGHT
3770
23-Aug-2023
11:12



BEFORE
MASS
85
AREA
4196
HEIGHT
2450
12-Aug-2023
22:44



AFTER
MASS
77
AREA
2427
HEIGHT
1197
23-Aug-2023
11:12

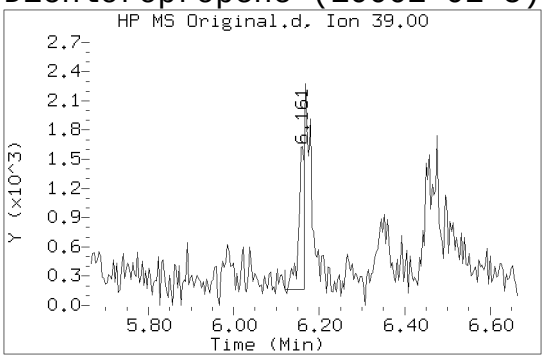


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LabSampID : VSTD000.5

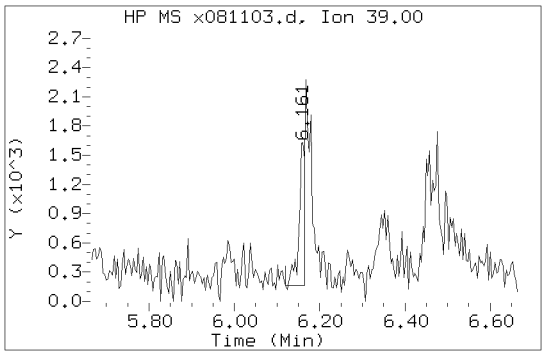
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

BEFORE
MASS
127
AREA
636
HEIGHT
452
12-Aug-2023
22:44



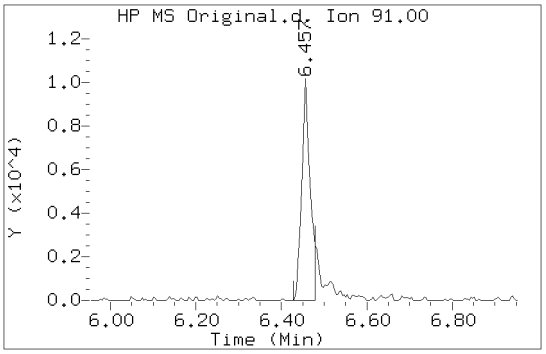
AFTER
MASS
39
AREA
1423
HEIGHT
1463
23-Aug-2023
11:12



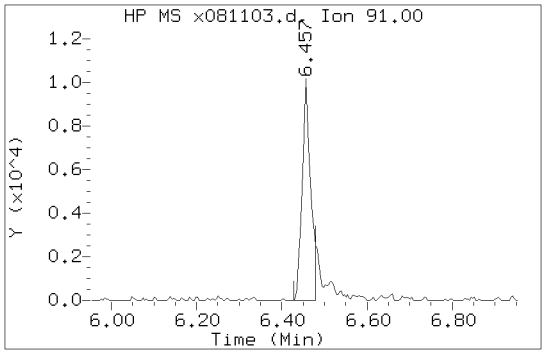
Toluene (108-88-3)

Reason Code:

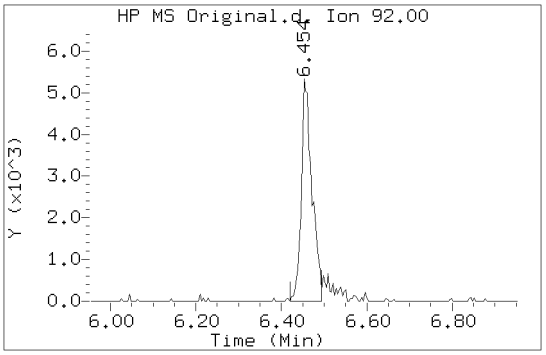
BEFORE
MASS
63
AREA
3864
HEIGHT
2635
12-Aug-2023
22:44



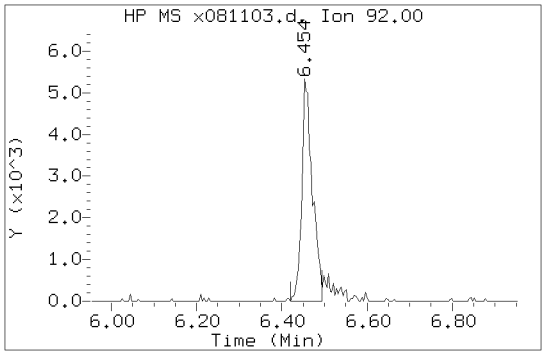
AFTER
MASS
91
AREA
14402
HEIGHT
10180
23-Aug-2023
11:12



BEFORE
MASS
112
AREA
124
HEIGHT
134
12-Aug-2023
22:44



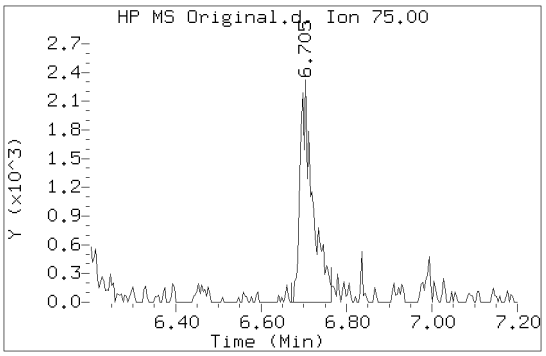
AFTER
MASS
92
AREA
9443
HEIGHT
5333
23-Aug-2023
11:12



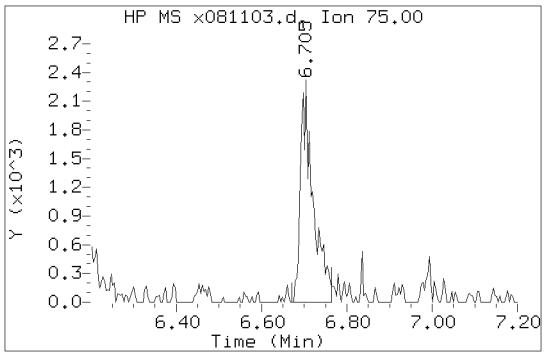
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

BEFORE
MASS
93
AREA
2538
HEIGHT
1541
12-Aug-2023
22:44



AFTER
MASS
75
AREA
4833
HEIGHT
2322
23-Aug-2023
11:12

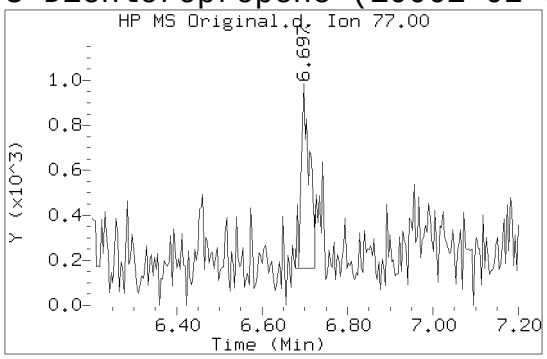


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

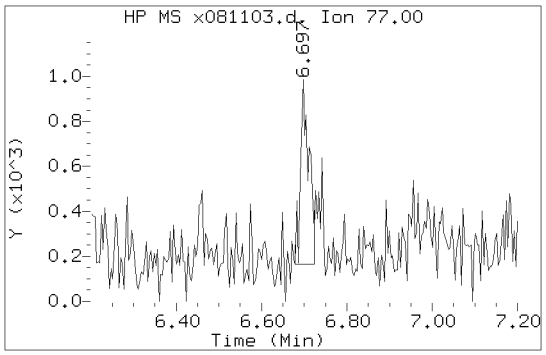
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

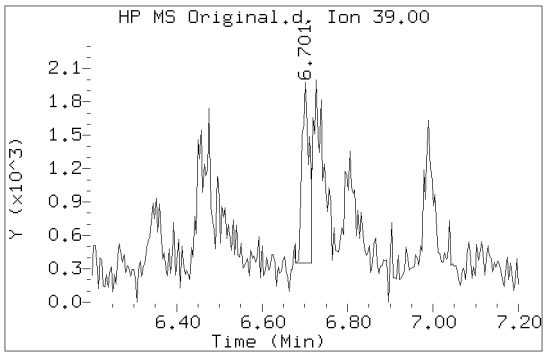
BEFORE
MASS
95
AREA
2746
HEIGHT
1704
12-Aug-2023
22:44



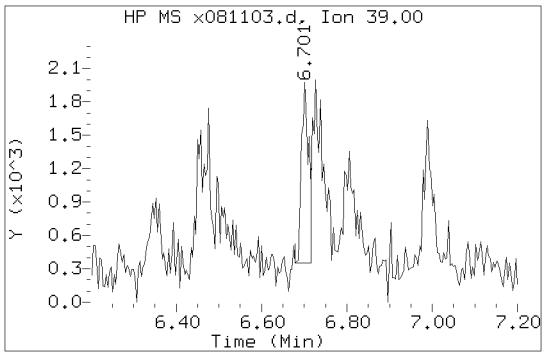
AFTER
MASS
77
AREA
1159
HEIGHT
821
23-Aug-2023
11:12



BEFORE
MASS
174
AREA
3192
HEIGHT
1917
12-Aug-2023
22:44



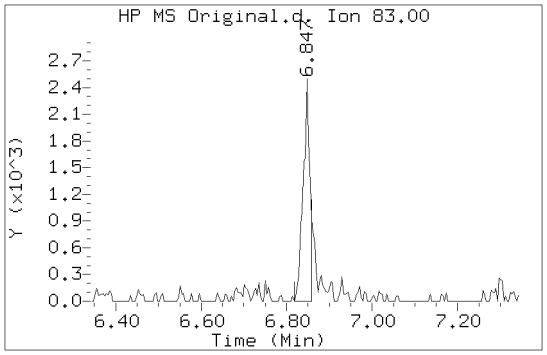
AFTER
MASS
39
AREA
1956
HEIGHT
1620
23-Aug-2023
11:12



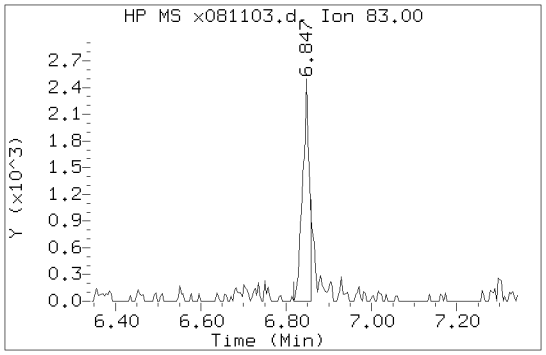
1,1,2-Trichloroethane (79-00-5)

Reason Code:

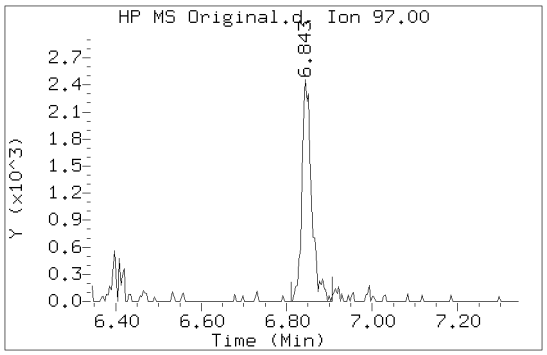
BEFORE
MASS
75
AREA
5702
HEIGHT
3770
12-Aug-2023
22:44



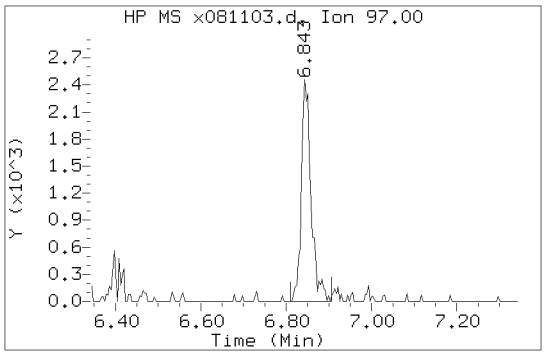
AFTER
MASS
83
AREA
2765
HEIGHT
2497
23-Aug-2023
11:12



BEFORE
MASS
77
AREA
2427
HEIGHT
1197
12-Aug-2023
22:44



AFTER
MASS
97
AREA
4005
HEIGHT
2458
23-Aug-2023
11:12

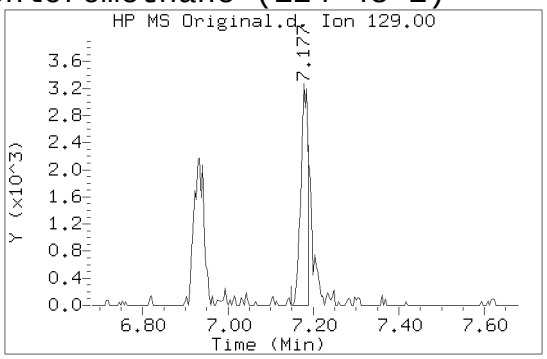


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InstruID : voa6.i
LabSampID : VSTD000.5

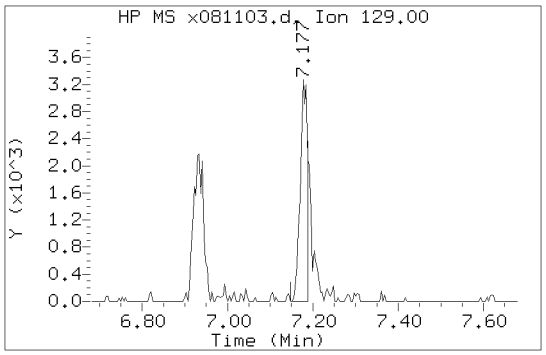
Dibromochloromethane (124-48-1)

Reason Code:

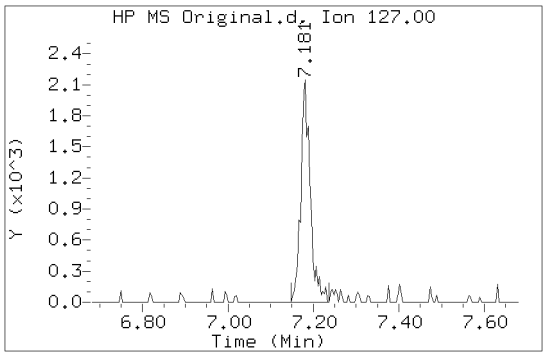
BEFORE
MASS
91
AREA
14402
HEIGHT
10180
12-Aug-2023
22:44



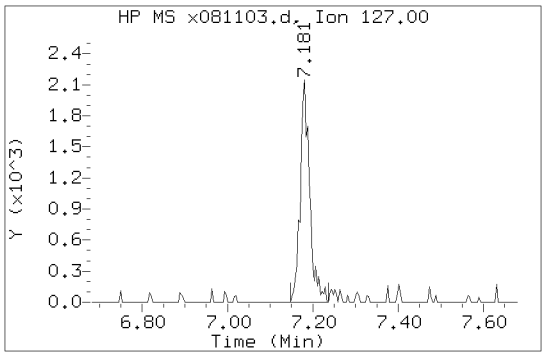
AFTER
MASS
129
AREA
3861
HEIGHT
3271
23-Aug-2023
11:12



BEFORE
MASS
92
AREA
9443
HEIGHT
5333
12-Aug-2023
22:44



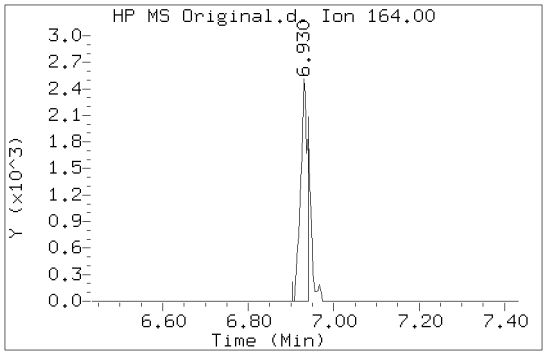
AFTER
MASS
127
AREA
3398
HEIGHT
2147
23-Aug-2023
11:12



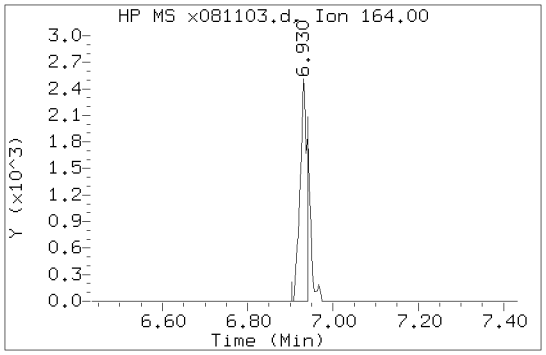
Tetrachloroethene (127-18-4)

Reason Code:

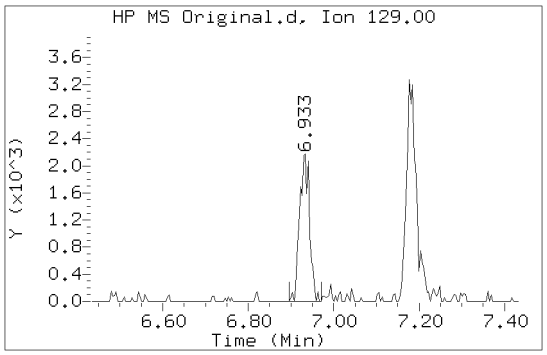
BEFORE
MASS
75
AREA
4833
HEIGHT
2322
12-Aug-2023
22:44



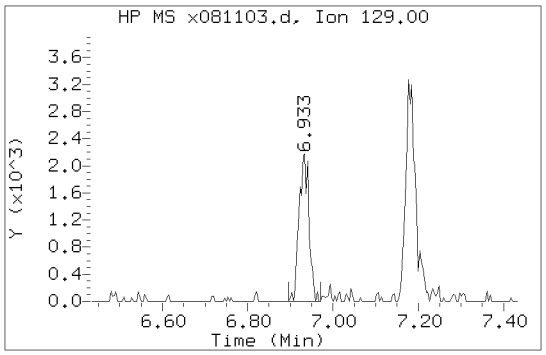
AFTER
MASS
164
AREA
2916
HEIGHT
2512
23-Aug-2023
11:12



BEFORE
MASS
77
AREA
1159
HEIGHT
821
12-Aug-2023
22:44



AFTER
MASS
129
AREA
3586
HEIGHT
2175
23-Aug-2023
11:12



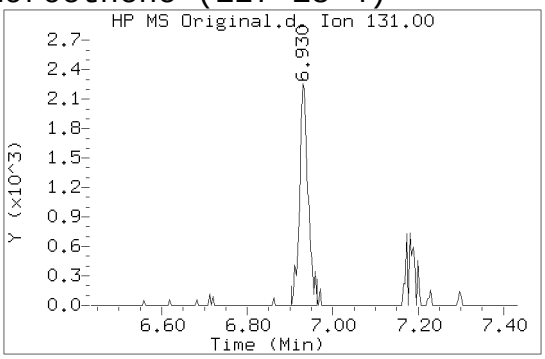
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InstruID : voa6.i
LabSampID : VSTD000.5

Tetrachloroethene (127-18-4)

Reason Code:

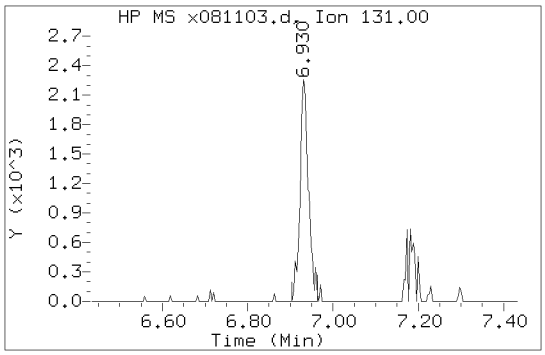
BEFORE

MASS
39
AREA
1956
HEIGHT
1620
12-Aug-2023
22:44



AFTER

MASS
131
AREA
3239
HEIGHT
2257
23-Aug-2023
11:12

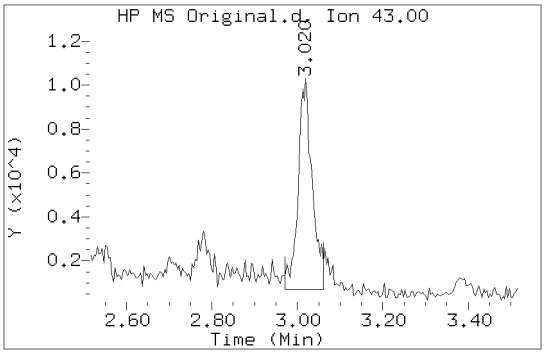


Vinyl Acetate (108-05-4)

Reason Code:

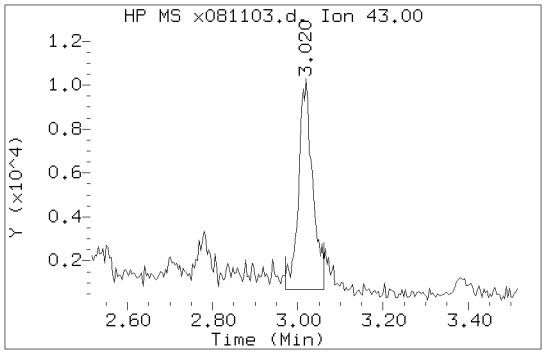
BEFORE

MASS
43
AREA
4310
HEIGHT
1616
12-Aug-2023
22:44



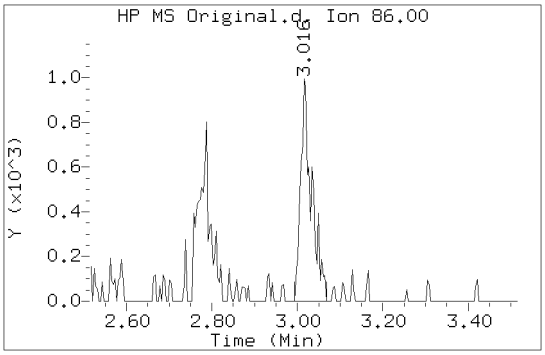
AFTER

MASS
43
AREA
22253
HEIGHT
9580
23-Aug-2023
11:12



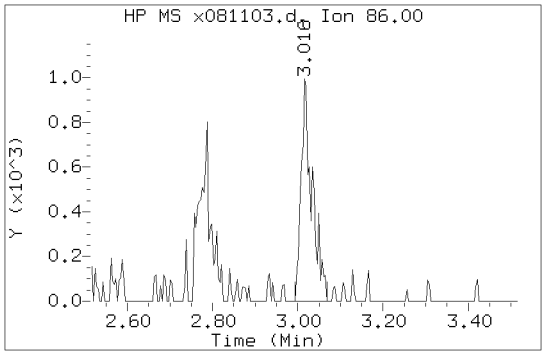
BEFORE

MASS
58
AREA
2378
HEIGHT
1391
12-Aug-2023
22:44



AFTER

MASS
86
AREA
1808
HEIGHT
995
23-Aug-2023
11:12

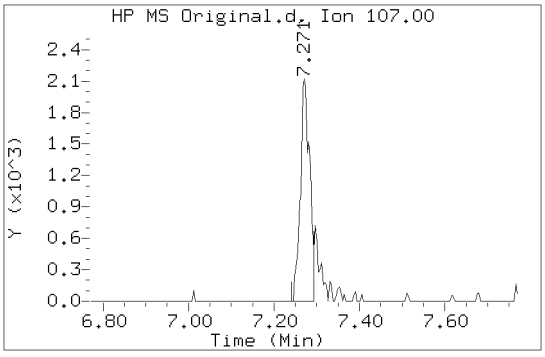


1,2-Dibromoethane (106-93-4)

Reason Code:

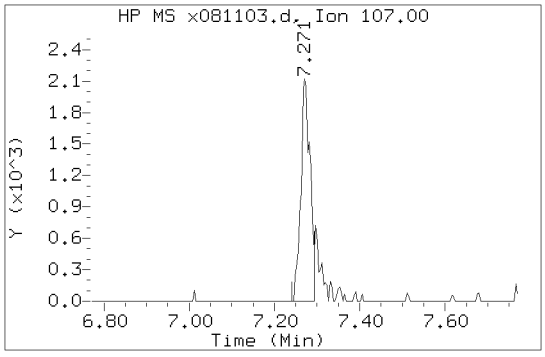
BEFORE

MASS
83
AREA
2765
HEIGHT
2497
12-Aug-2023
22:44



AFTER

MASS
107
AREA
3314
HEIGHT
2121
23-Aug-2023
11:12

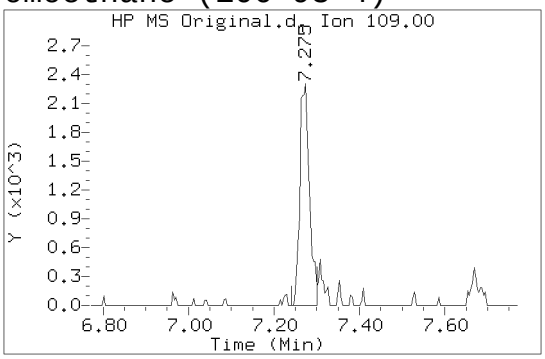


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dibromoethane (106-93-4)

BEFORE

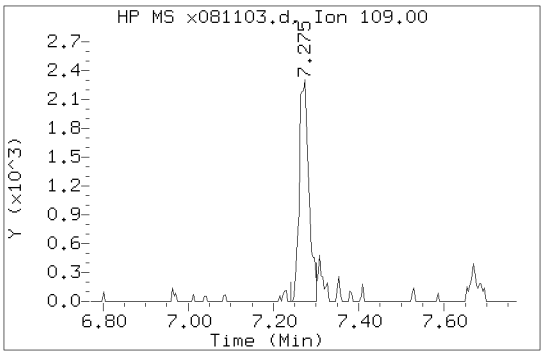
MASS
97
AREA
4005
HEIGHT
2458
12-Aug-2023
22:44



Reason Code:

AFTER

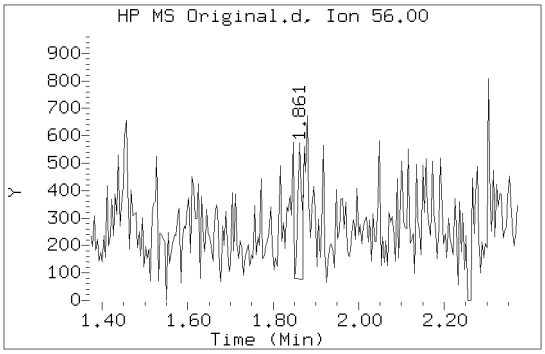
MASS
109
AREA
3693
HEIGHT
2305
23-Aug-2023
11:12



Acrolein (107-02-8)

BEFORE

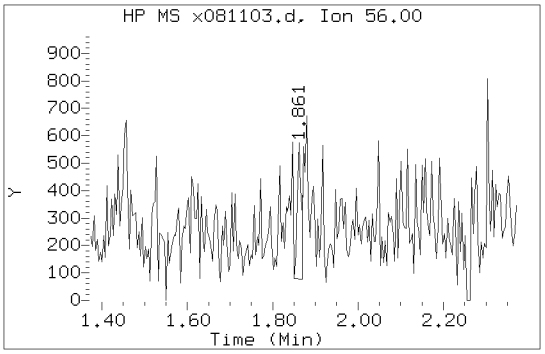
MASS
76
AREA
5853
HEIGHT
3539
12-Aug-2023
22:44



Reason Code:

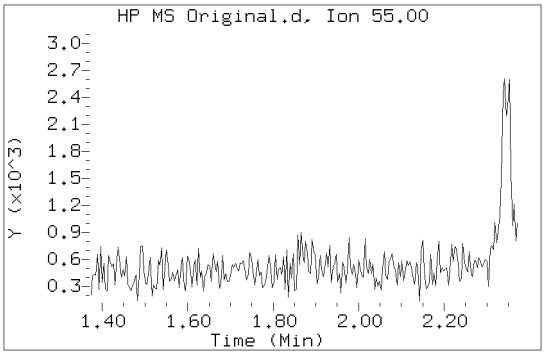
AFTER

MASS
56
AREA
323
HEIGHT
496
23-Aug-2023
11:12



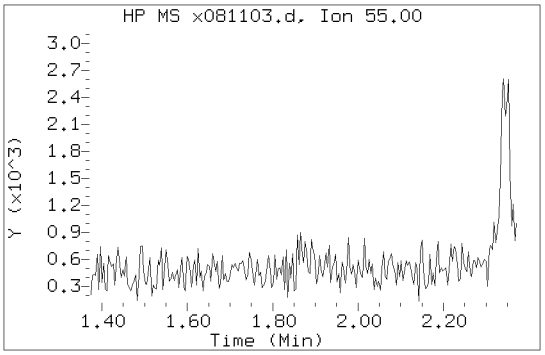
BEFORE

MASS
78
AREA
2157
HEIGHT
1296
12-Aug-2023
22:44



AFTER

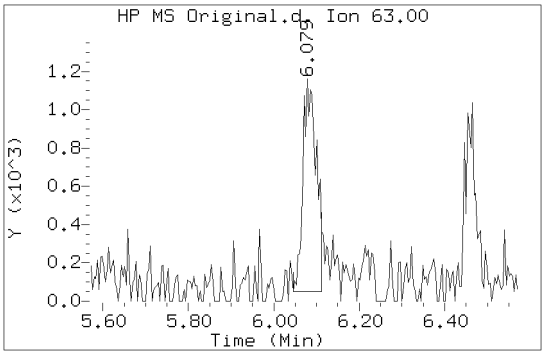
MASS
55
AREA
0
HEIGHT
0
23-Aug-2023
11:12



2-Chloroethylvinyl ether (110-75-8)

BEFORE

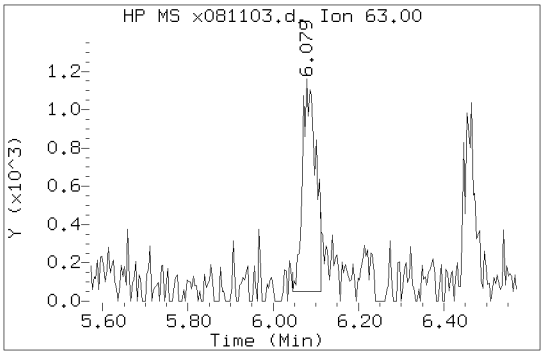
MASS
129
AREA
3861
HEIGHT
3271
12-Aug-2023
22:44



Reason Code:

AFTER

MASS
63
AREA
2443
HEIGHT
1109
23-Aug-2023
11:12



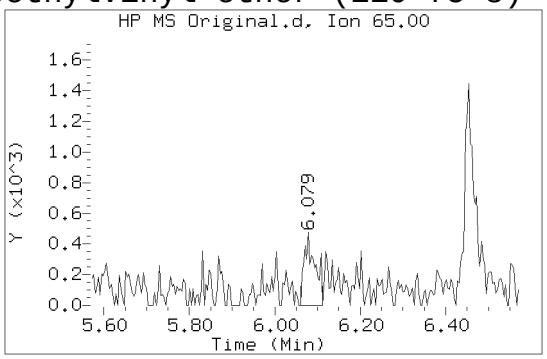
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

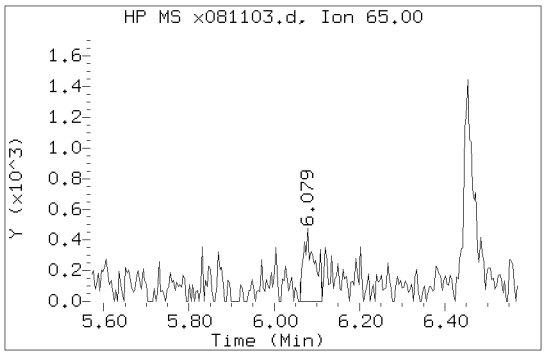
BEFORE

MASS
127
AREA
3398
HEIGHT
2147
12-Aug-2023
22:44



AFTER

MASS
65
AREA
845
HEIGHT
477
23-Aug-2023
11:12

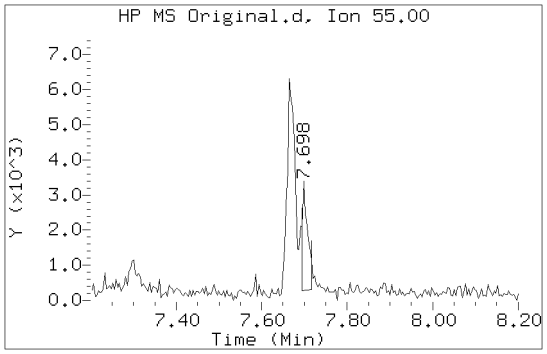


1-Chlorohexane (544-10-5)

Reason Code:

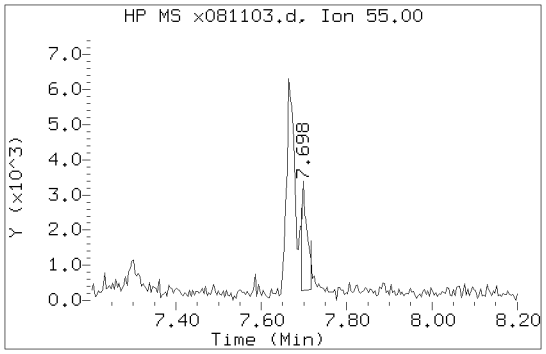
BEFORE

MASS
164
AREA
2916
HEIGHT
2512
12-Aug-2023
22:44



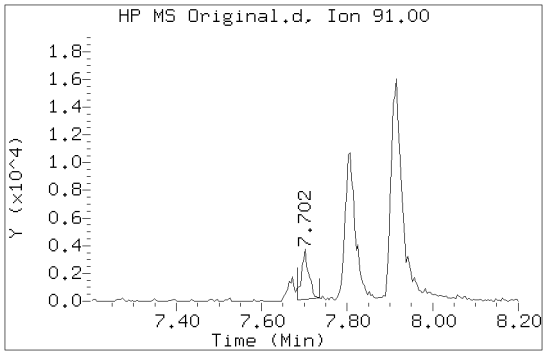
AFTER

MASS
55
AREA
2827
HEIGHT
3106
23-Aug-2023
11:12



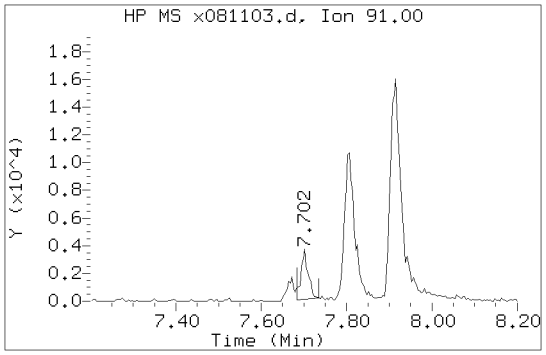
BEFORE

MASS
129
AREA
3586
HEIGHT
2175
12-Aug-2023
22:44



AFTER

MASS
91
AREA
4425
HEIGHT
3645
23-Aug-2023
11:12

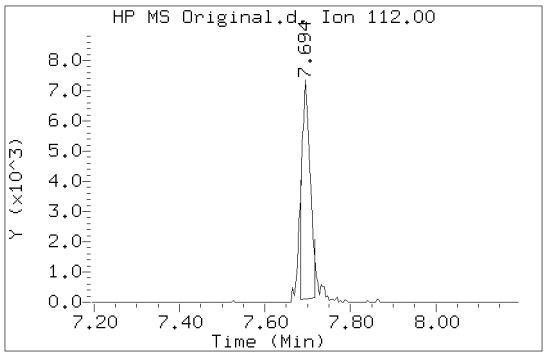


Chlorobenzene (108-90-7)

Reason Code:

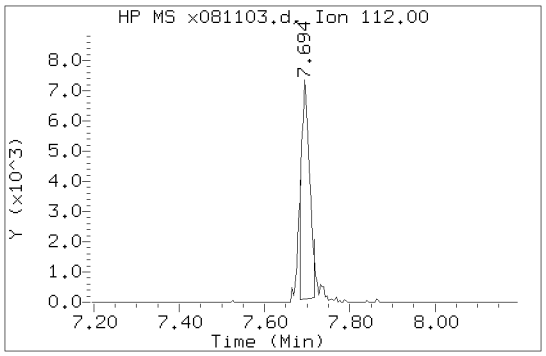
BEFORE

MASS
107
AREA
3314
HEIGHT
2121
12-Aug-2023
22:44



AFTER

MASS
112
AREA
10027
HEIGHT
7254
23-Aug-2023
11:12

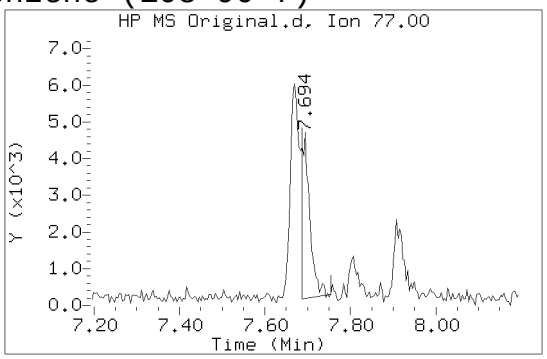


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InstruID : voa6.i
LabSampID : VSTD000.5

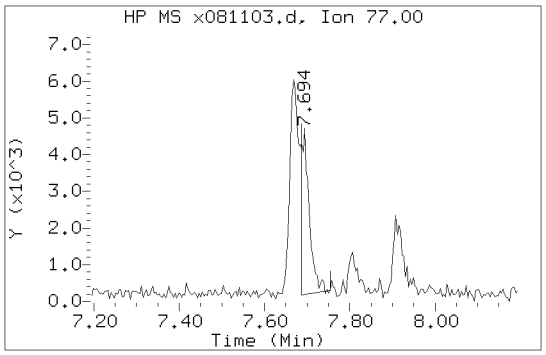
Chlorobenzene (108-90-7)

Reason Code:

BEFORE
MASS
109
AREA
3693
HEIGHT
2305
12-Aug-2023
22:44



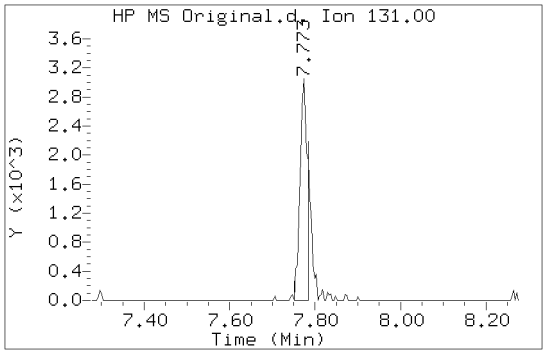
AFTER
MASS
77
AREA
5875
HEIGHT
4525
23-Aug-2023
11:12



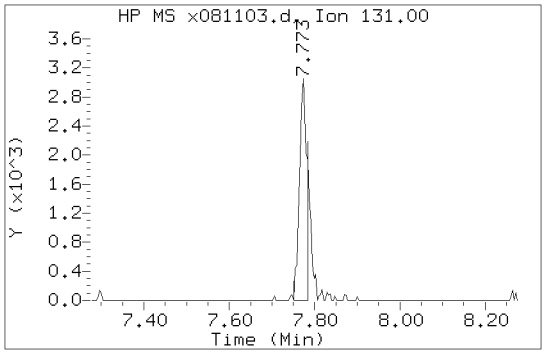
1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

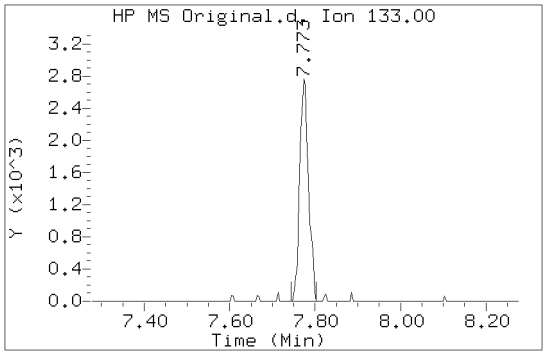
BEFORE
MASS
112
AREA
10027
HEIGHT
7254
12-Aug-2023
22:44



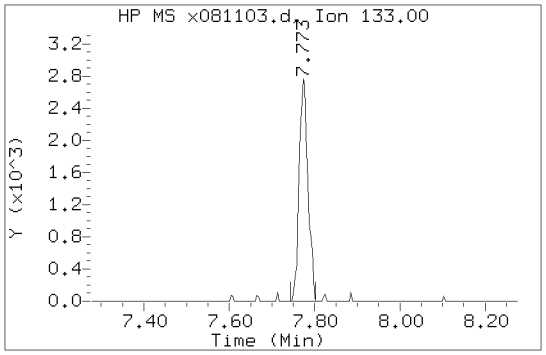
AFTER
MASS
131
AREA
3665
HEIGHT
3052
23-Aug-2023
11:12



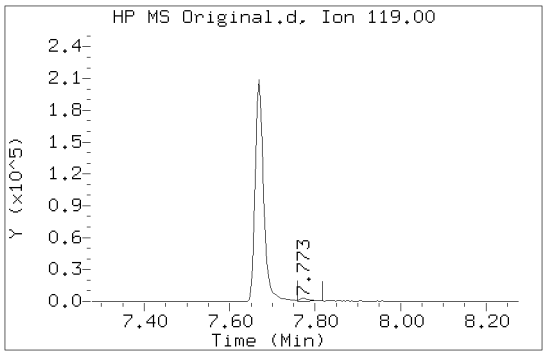
BEFORE
MASS
77
AREA
5875
HEIGHT
4525
12-Aug-2023
22:44



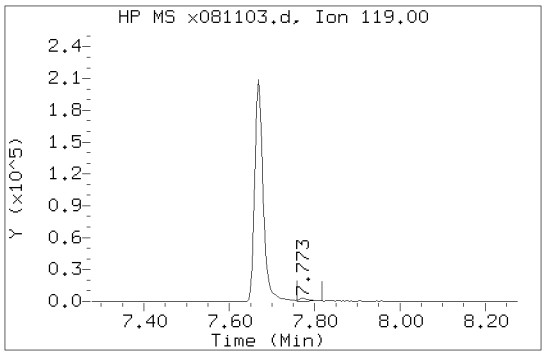
AFTER
MASS
133
AREA
4096
HEIGHT
2766
23-Aug-2023
11:12



BEFORE
MASS
114
AREA
4154
HEIGHT
2655
12-Aug-2023
22:44



AFTER
MASS
119
AREA
4113
HEIGHT
2897
23-Aug-2023
11:12

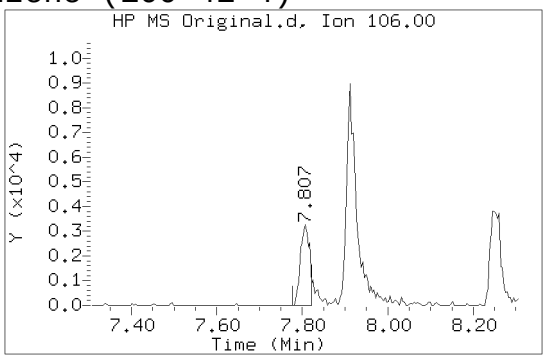


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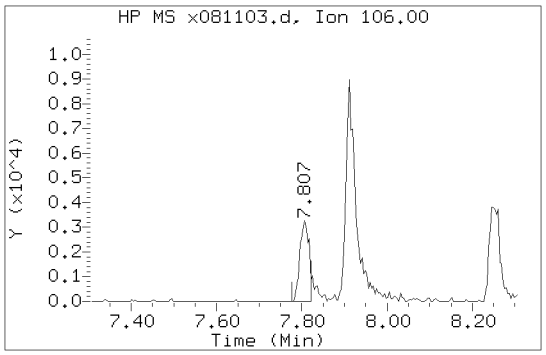
Ethylbenzene (100-41-4)

Reason Code:

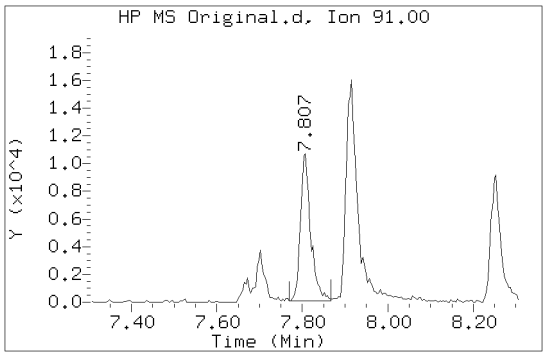
BEFORE
MASS
131
AREA
3665
HEIGHT
3052
12-Aug-2023
22:44



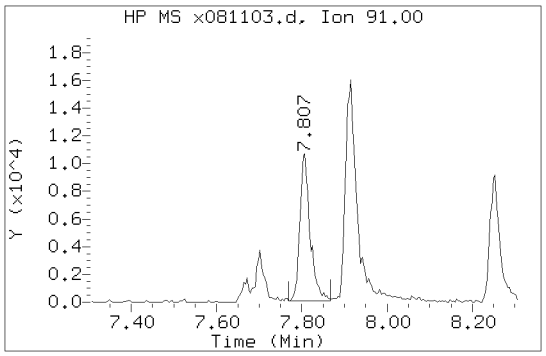
AFTER
MASS
106
AREA
4890
HEIGHT
3268
23-Aug-2023
11:12



BEFORE
MASS
133
AREA
4096
HEIGHT
2766
12-Aug-2023
22:44



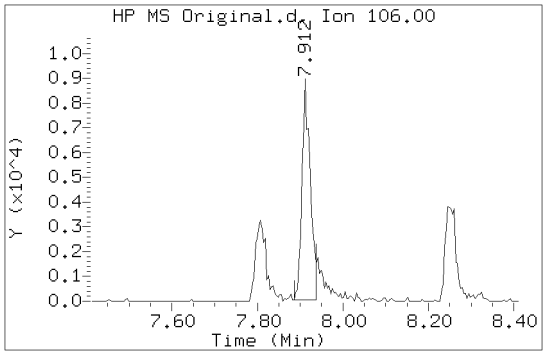
AFTER
MASS
91
AREA
18072
HEIGHT
10624
23-Aug-2023
11:12



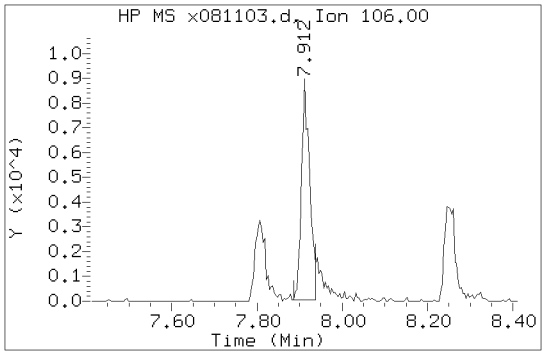
m,p-Xylenes ()

Reason Code:

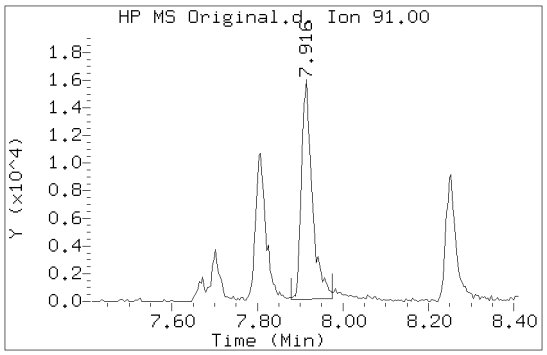
BEFORE
MASS
106
AREA
4890
HEIGHT
3268
12-Aug-2023
22:44



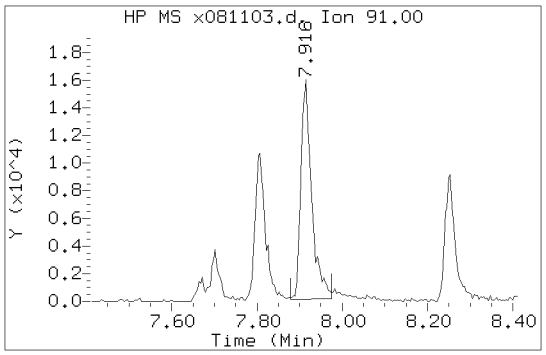
AFTER
MASS
106
AREA
12402
HEIGHT
8912
23-Aug-2023
11:12



BEFORE
MASS
91
AREA
18072
HEIGHT
10624
12-Aug-2023
22:44



AFTER
MASS
91
AREA
28630
HEIGHT
15878
23-Aug-2023
11:12

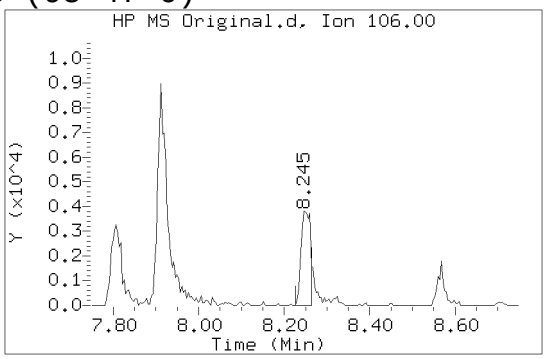


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LabSampID : VSTD000.5

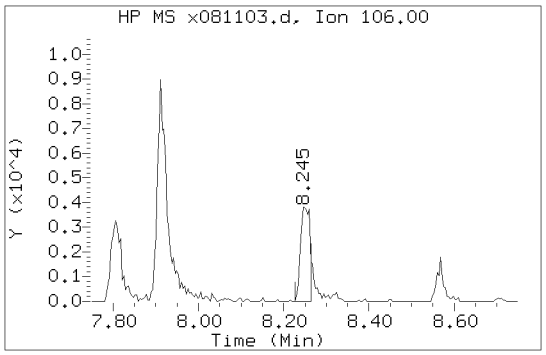
o-Xylene (95-47-6)

Reason Code:

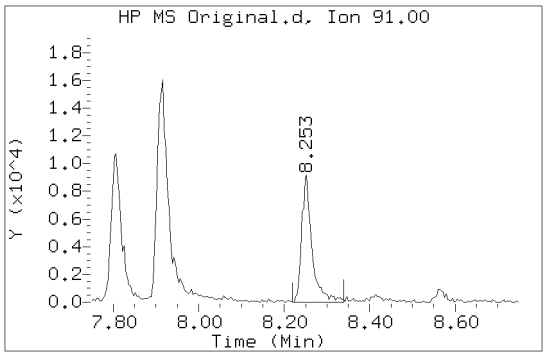
BEFORE
MASS
106
AREA
12402
HEIGHT
8912
12-Aug-2023
22:44



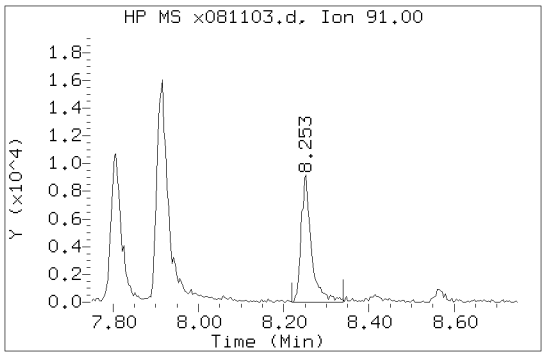
AFTER
MASS
106
AREA
5910
HEIGHT
3818
23-Aug-2023
11:12



BEFORE
MASS
91
AREA
28630
HEIGHT
15878
12-Aug-2023
22:44



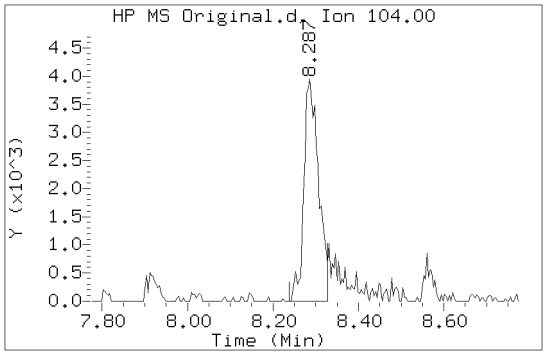
AFTER
MASS
91
AREA
15761
HEIGHT
9162
23-Aug-2023
11:12



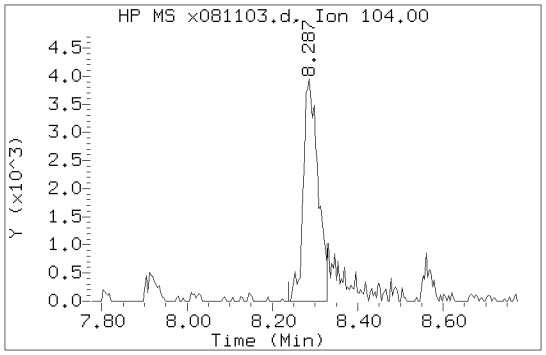
Styrene (100-42-5)

Reason Code:

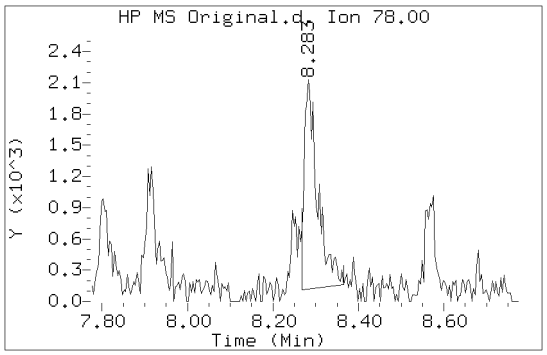
BEFORE
MASS
106
AREA
5910
HEIGHT
3818
12-Aug-2023
22:44



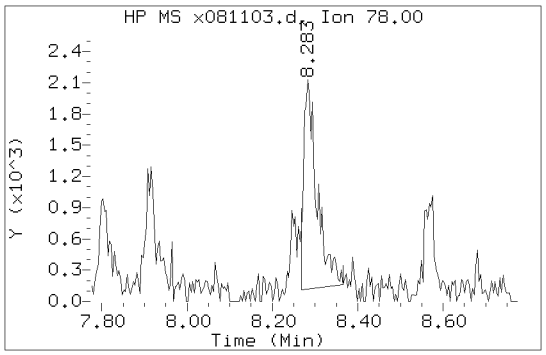
AFTER
MASS
104
AREA
9494
HEIGHT
3950
23-Aug-2023
11:12



BEFORE
MASS
91
AREA
15761
HEIGHT
9162
12-Aug-2023
22:44



AFTER
MASS
78
AREA
4325
HEIGHT
2009
23-Aug-2023
11:12

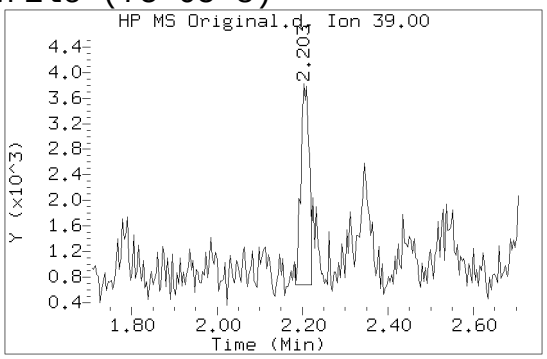


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InstruID : voa6.i
LabSampID : VSTD000.5

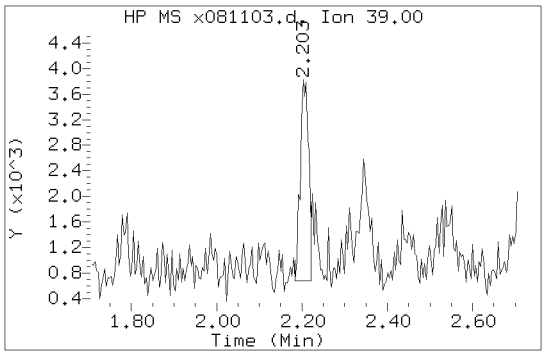
Acetonitrile (75-05-8)

Reason Code:

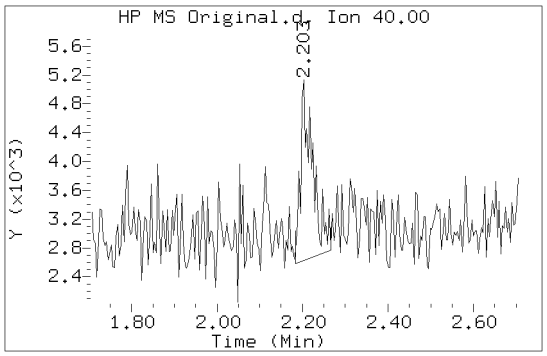
BEFORE
MASS
104
AREA
9494
HEIGHT
3950
12-Aug-2023
22:44



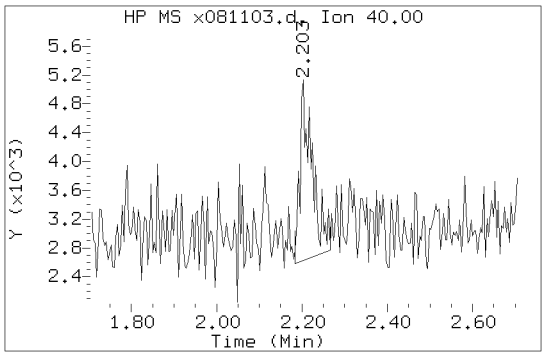
AFTER
MASS
39
AREA
4428
HEIGHT
3143
23-Aug-2023
11:12



BEFORE
MASS
78
AREA
4325
HEIGHT
2009
12-Aug-2023
22:44



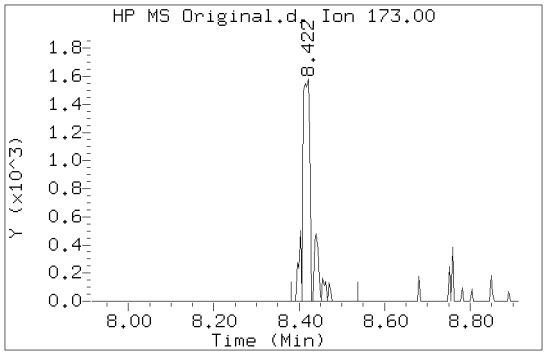
AFTER
MASS
40
AREA
4938
HEIGHT
2505
23-Aug-2023
11:12



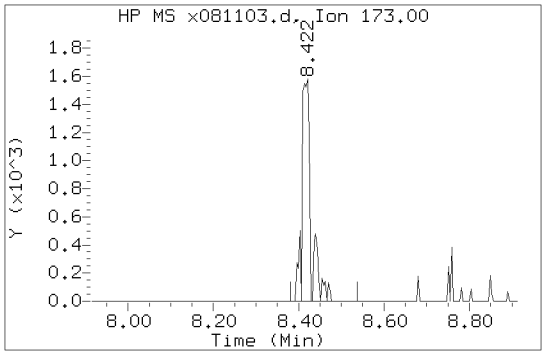
Bromoform (75-25-2)

Reason Code:

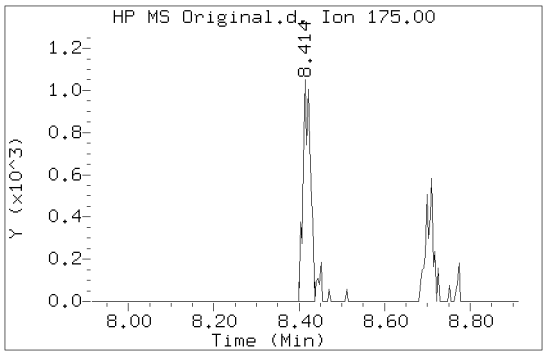
BEFORE
MASS
39
AREA
4428
HEIGHT
3143
12-Aug-2023
22:44



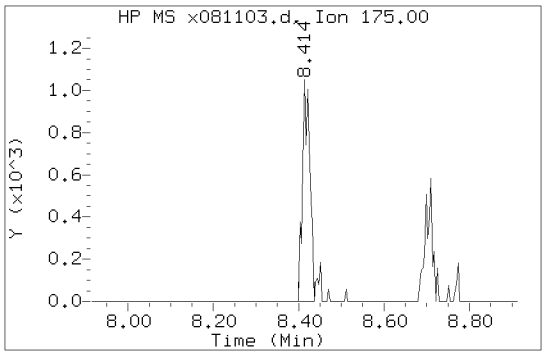
AFTER
MASS
173
AREA
2332
HEIGHT
1581
23-Aug-2023
11:12



BEFORE
MASS
40
AREA
4938
HEIGHT
2505
12-Aug-2023
22:44



AFTER
MASS
175
AREA
1279
HEIGHT
1051
23-Aug-2023
11:12

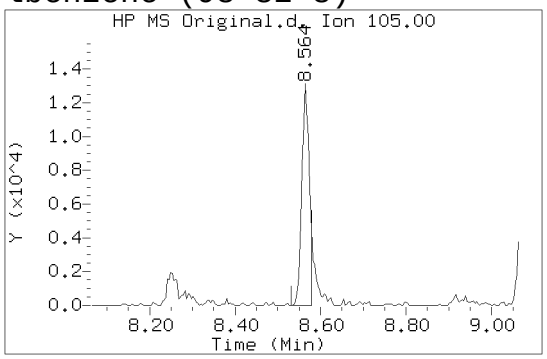


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

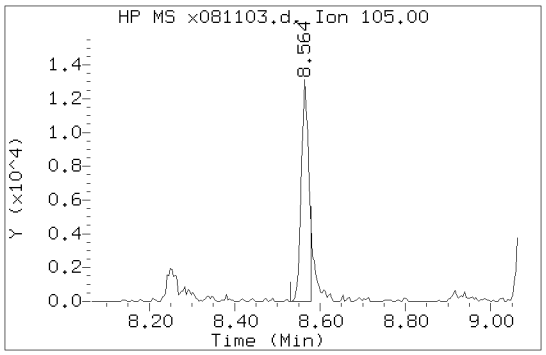
Isopropylbenzene (98-82-8)

Reason Code:

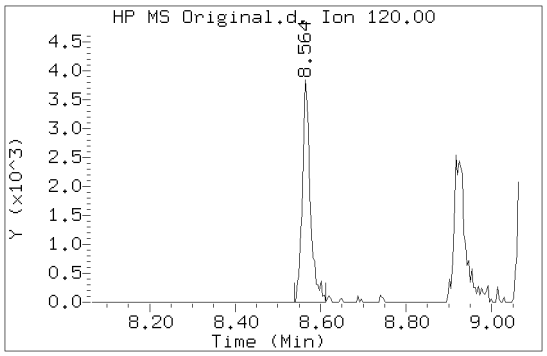
BEFORE
MASS
173
AREA
2332
HEIGHT
1581
12-Aug-2023
22:44



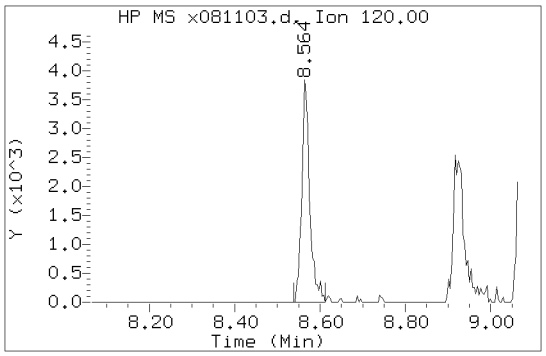
AFTER
MASS
105
AREA
16385
HEIGHT
13126
23-Aug-2023
11:12



BEFORE
MASS
175
AREA
1279
HEIGHT
1051
12-Aug-2023
22:44



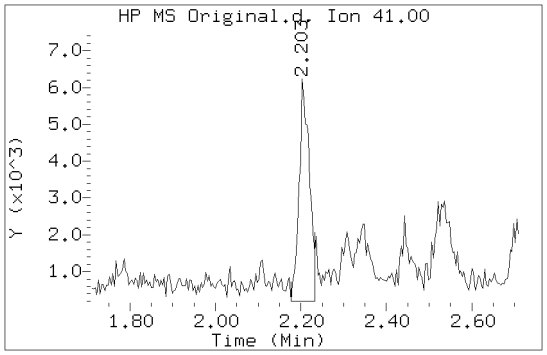
AFTER
MASS
120
AREA
5147
HEIGHT
3841
23-Aug-2023
11:12



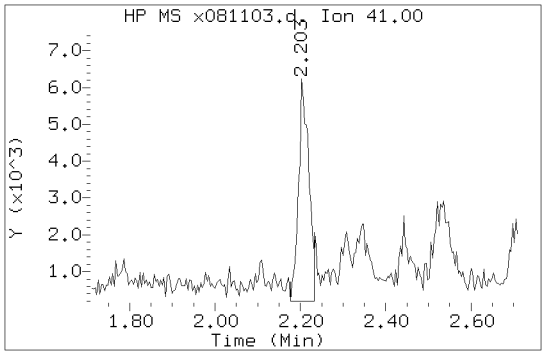
Allyl Chloride (107-05-1)

Reason Code:

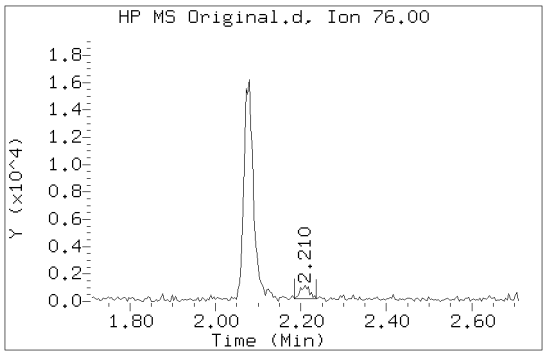
BEFORE
MASS
105
AREA
16385
HEIGHT
13126
12-Aug-2023
22:44



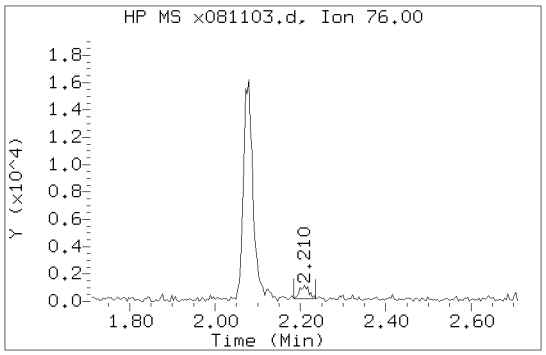
AFTER
MASS
41
AREA
10300
HEIGHT
6035
23-Aug-2023
11:12



BEFORE
MASS
120
AREA
5147
HEIGHT
3841
12-Aug-2023
22:44



AFTER
MASS
76
AREA
1547
HEIGHT
1020
23-Aug-2023
11:12



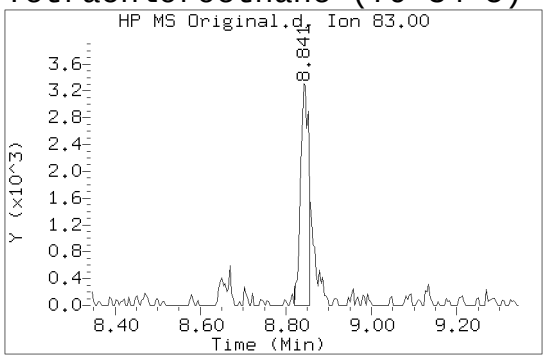
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

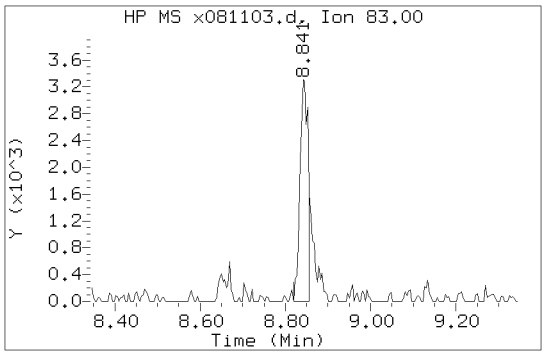
BEFORE

MASS
41
AREA
10300
HEIGHT
6035
12-Aug-2023
22:44



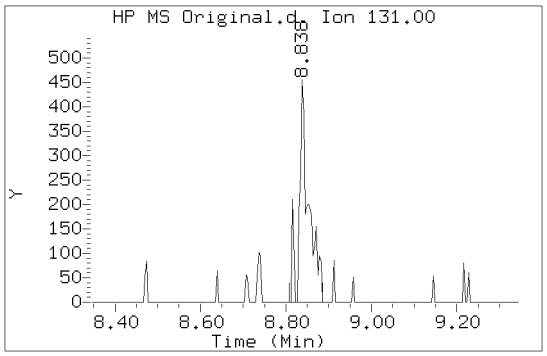
AFTER

MASS
83
AREA
4493
HEIGHT
3308
23-Aug-2023
11:12



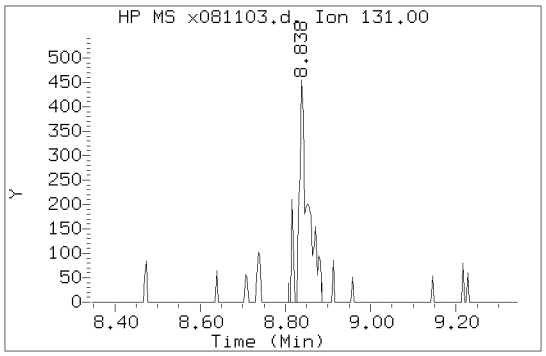
BEFORE

MASS
76
AREA
1547
HEIGHT
1020
12-Aug-2023
22:44



AFTER

MASS
131
AREA
703
HEIGHT
455
23-Aug-2023
11:12

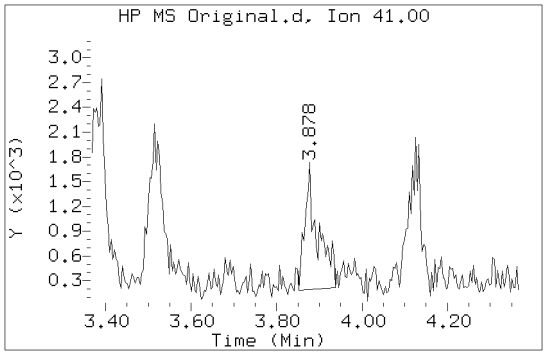


Methacrylonitrile (126-98-7)

Reason Code:

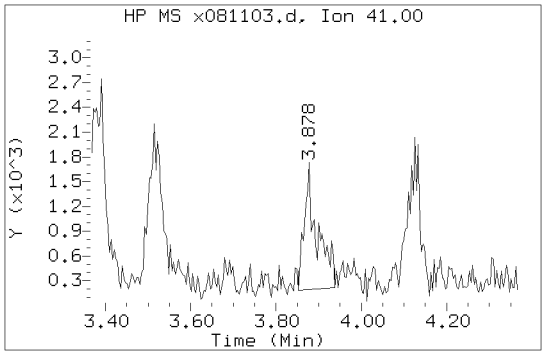
BEFORE

MASS
152
AREA
483591
HEIGHT
348864
12-Aug-2023
22:44



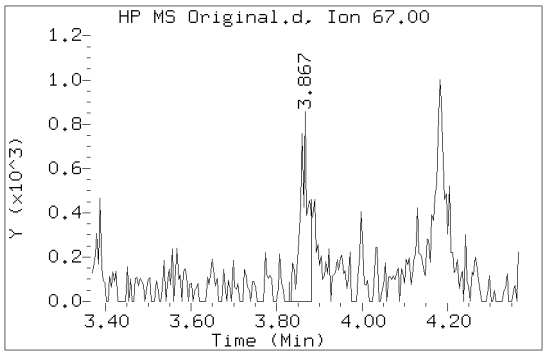
AFTER

MASS
41
AREA
3257
HEIGHT
1536
23-Aug-2023
11:12



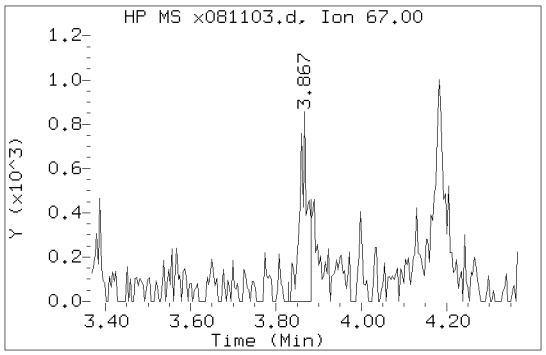
BEFORE

MASS
115
AREA
265296
HEIGHT
192140
12-Aug-2023
22:44



AFTER

MASS
67
AREA
1114
HEIGHT
856
23-Aug-2023
11:12



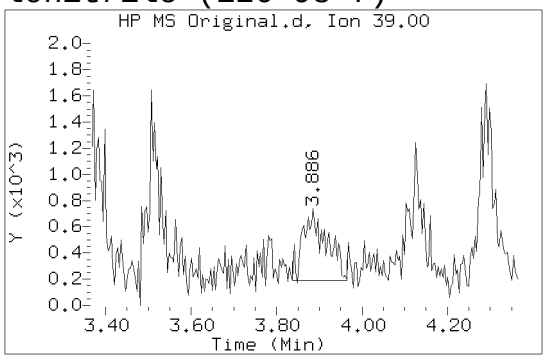
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Methacrylonitrile (126-98-7)

Reason Code:

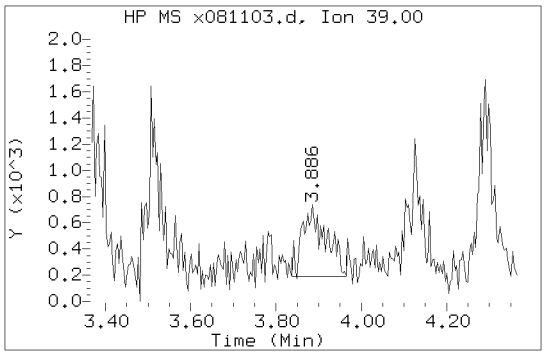
BEFORE

MASS
150
AREA
764733
HEIGHT
545610
12-Aug-2023
22:44



AFTER

MASS
39
AREA
2083
HEIGHT
549
23-Aug-2023
11:12

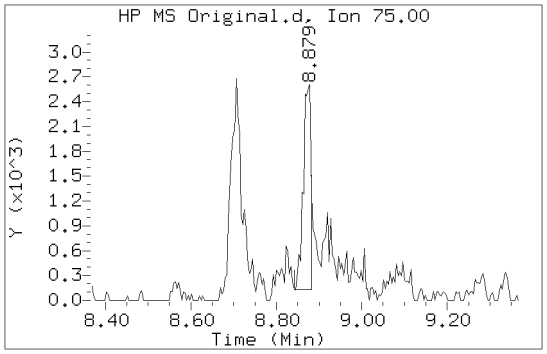


1,2,3-Trichloropropane (96-18-4)

Reason Code:

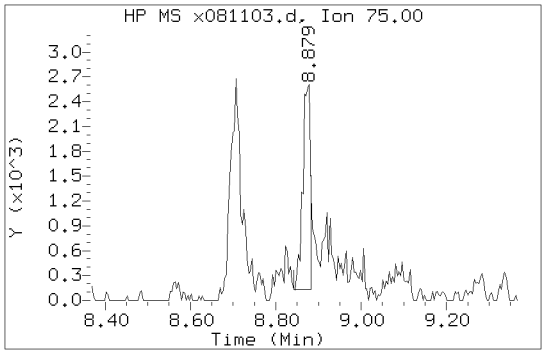
BEFORE

MASS
41
AREA
3257
HEIGHT
1536
12-Aug-2023
22:44



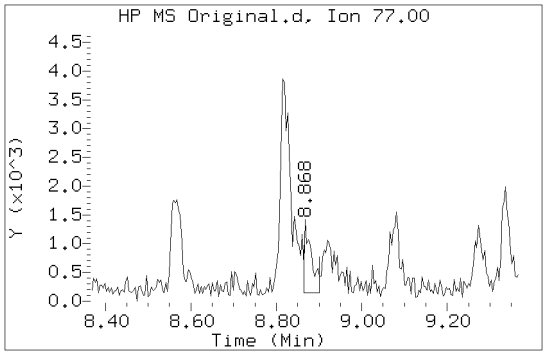
AFTER

MASS
75
AREA
3166
HEIGHT
2481
23-Aug-2023
11:12



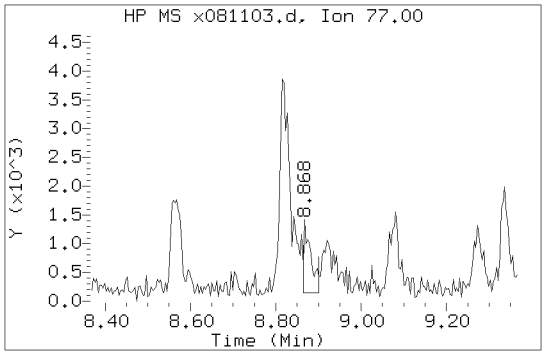
BEFORE

MASS
67
AREA
1114
HEIGHT
856
12-Aug-2023
22:44



AFTER

MASS
77
AREA
1546
HEIGHT
1276
23-Aug-2023
11:12

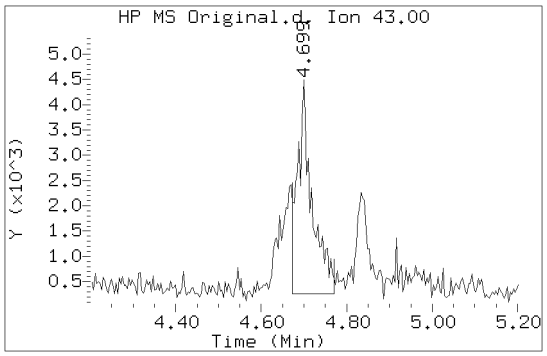


Isobutyl Alcohol (78-83-1)

Reason Code:

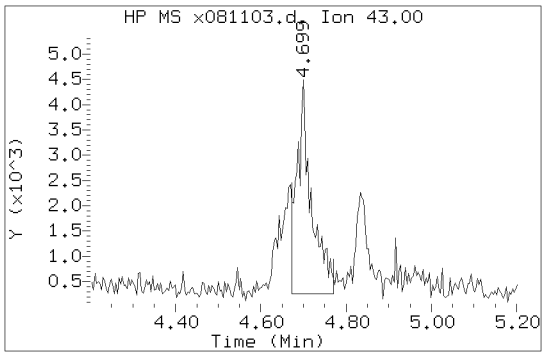
BEFORE

MASS
75
AREA
3166
HEIGHT
2481
12-Aug-2023
22:44



AFTER

MASS
43
AREA
10205
HEIGHT
4228
23-Aug-2023
11:12



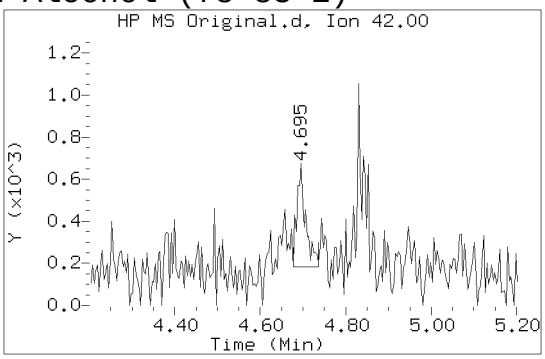
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InstruID : voa6.i
LabSampID : VSTD000.5

Isobutyl Alcohol (78-83-1)

Reason Code:

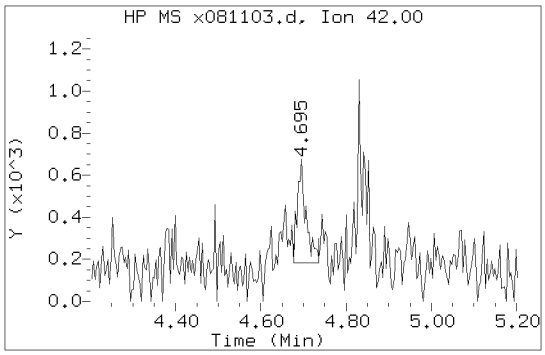
BEFORE

MASS
77
AREA
1546
HEIGHT
1276
12-Aug-2023
22:44



AFTER

MASS
42
AREA
697
HEIGHT
494
23-Aug-2023
11:12

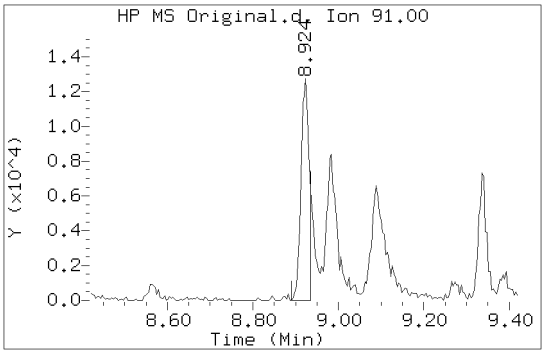


n-Propylbenzene (106-65-1)

Reason Code:

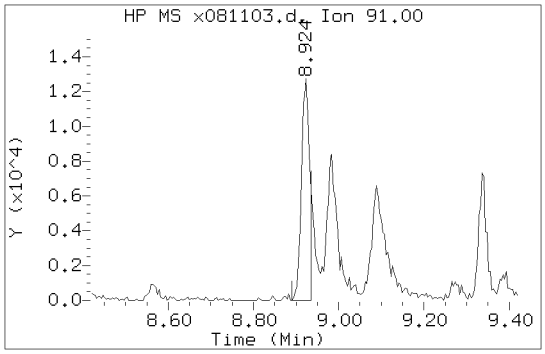
BEFORE

MASS
43
AREA
10205
HEIGHT
4228
12-Aug-2023
22:44



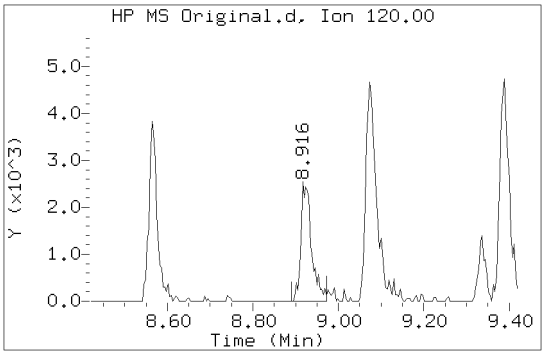
AFTER

MASS
91
AREA
17092
HEIGHT
12741
23-Aug-2023
11:12



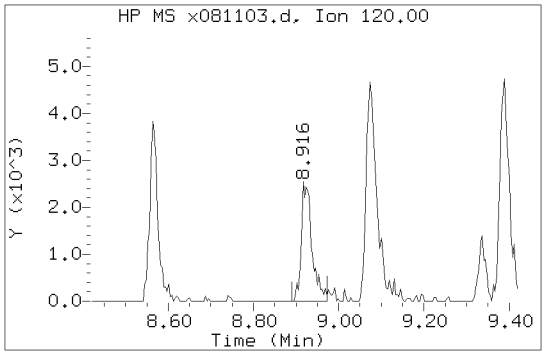
BEFORE

MASS
42
AREA
697
HEIGHT
494
12-Aug-2023
22:44



AFTER

MASS
120
AREA
4506
HEIGHT
2542
23-Aug-2023
11:12

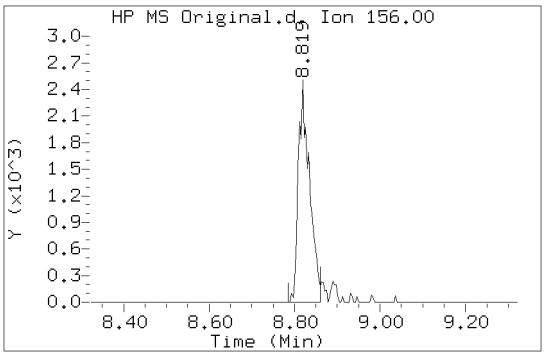


Bromobenzene (108-86-1)

Reason Code:

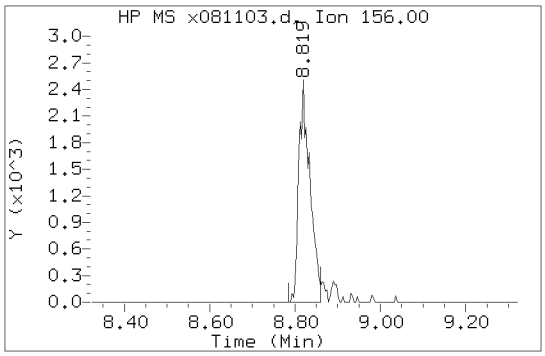
BEFORE

MASS
91
AREA
17092
HEIGHT
12741
12-Aug-2023
22:44



AFTER

MASS
156
AREA
4612
HEIGHT
2508
23-Aug-2023
11:12

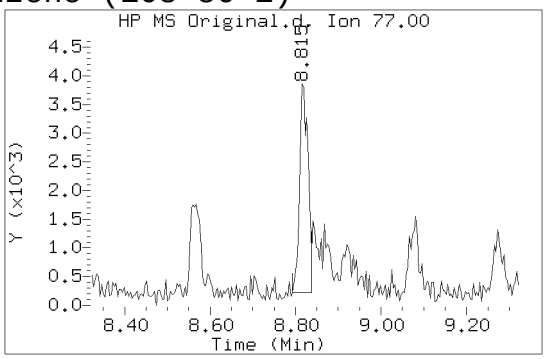


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Bromobenzene (108-86-1)

BEFORE

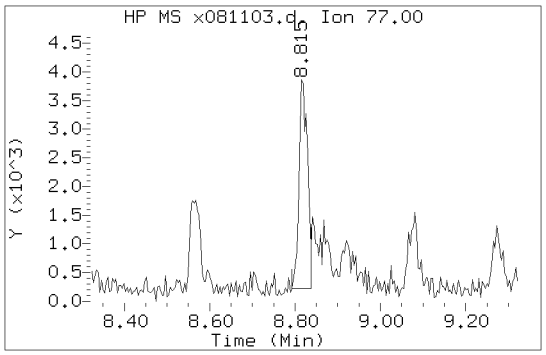
MASS
120
AREA
4506
HEIGHT
2542
12-Aug-2023
22:44



Reason Code:

AFTER

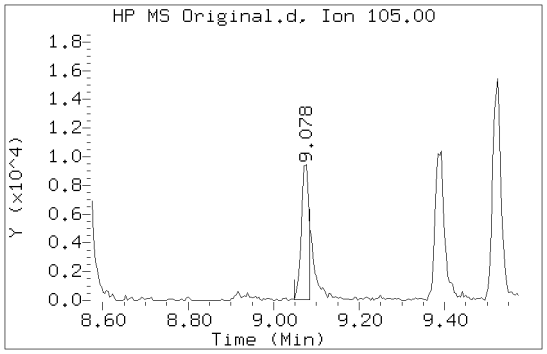
MASS
77
AREA
5162
HEIGHT
3640
23-Aug-2023
11:12



1,3,5-Trimethylbenzene (108-67-8)

BEFORE

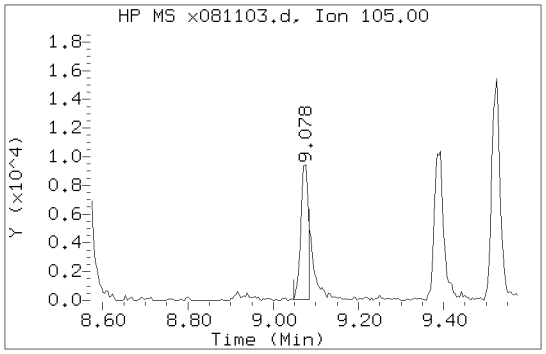
MASS
156
AREA
4612
HEIGHT
2508
12-Aug-2023
22:44



Reason Code:

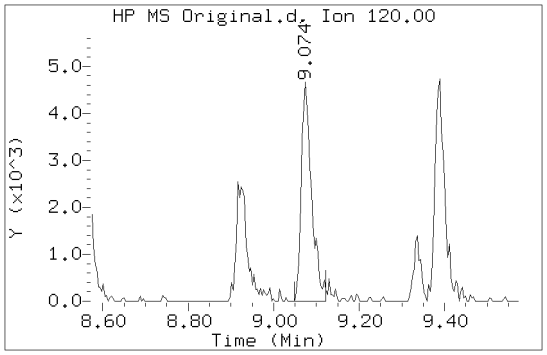
AFTER

MASS
105
AREA
12006
HEIGHT
9424
23-Aug-2023
11:12



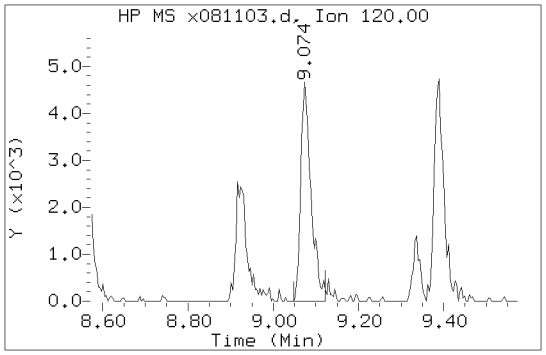
BEFORE

MASS
77
AREA
5162
HEIGHT
3640
12-Aug-2023
22:44



AFTER

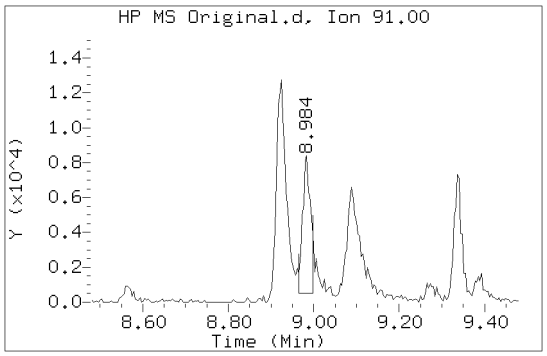
MASS
120
AREA
8039
HEIGHT
4663
23-Aug-2023
11:12



2-Chlorotoluene (95-49-8)

BEFORE

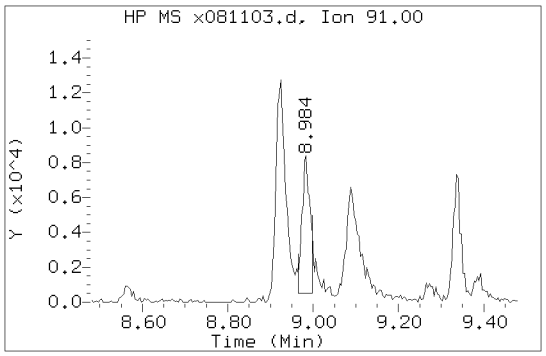
MASS
105
AREA
12006
HEIGHT
9424
12-Aug-2023
22:44



Reason Code:

AFTER

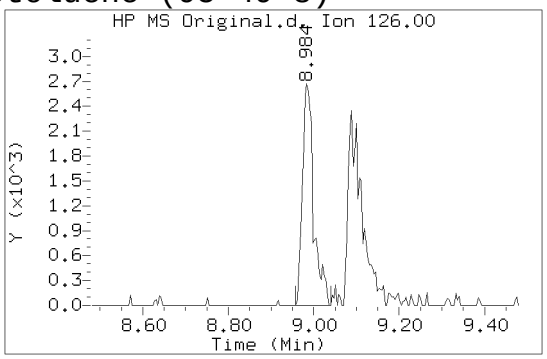
MASS
91
AREA
10667
HEIGHT
7878
23-Aug-2023
11:12



Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

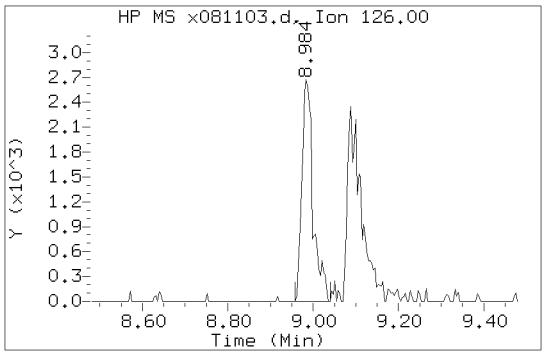
2-Chlorotoluene (95-49-8)

BEFORE
MASS
120
AREA
8039
HEIGHT
4663
12-Aug-2023
22:44



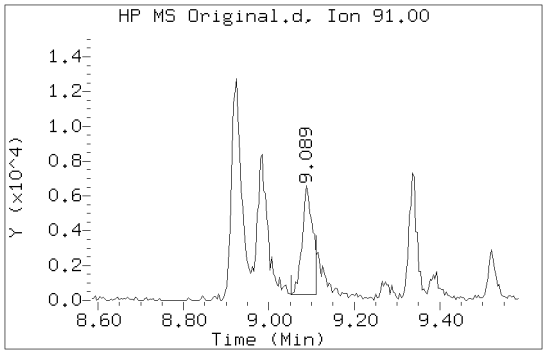
Reason Code:

AFTER
MASS
126
AREA
4942
HEIGHT
2672
23-Aug-2023
11:12



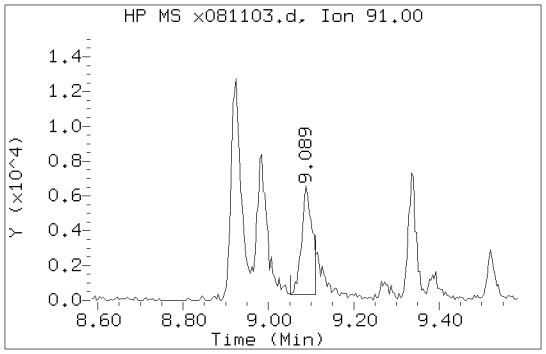
4-Chlorotoluene (106-43-4)

BEFORE
MASS
91
AREA
10667
HEIGHT
7878
12-Aug-2023
22:44

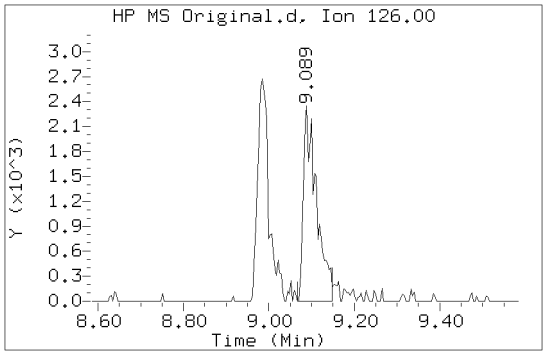


Reason Code:

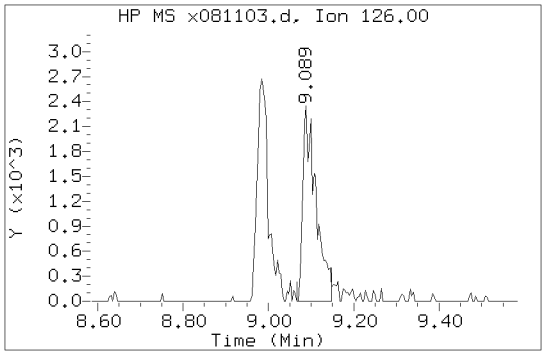
AFTER
MASS
91
AREA
10970
HEIGHT
6277
23-Aug-2023
11:12



BEFORE
MASS
126
AREA
4942
HEIGHT
2672
12-Aug-2023
22:44

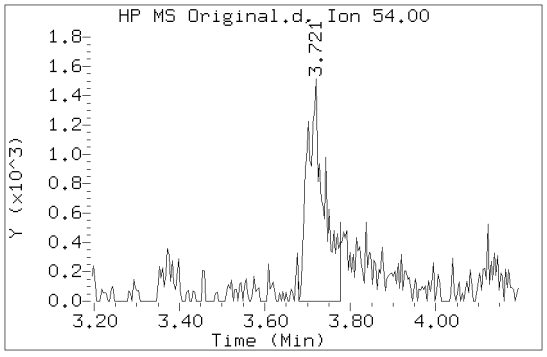


AFTER
MASS
126
AREA
5099
HEIGHT
2349
23-Aug-2023
11:12



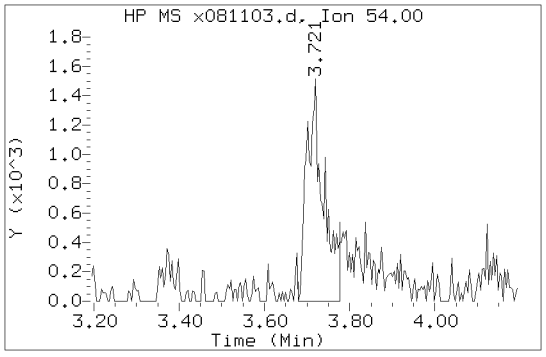
Propionitrile (107-12-0)

BEFORE
MASS
91
AREA
10970
HEIGHT
6277
12-Aug-2023
22:44



Reason Code:

AFTER
MASS
54
AREA
4117
HEIGHT
1515
23-Aug-2023
11:12



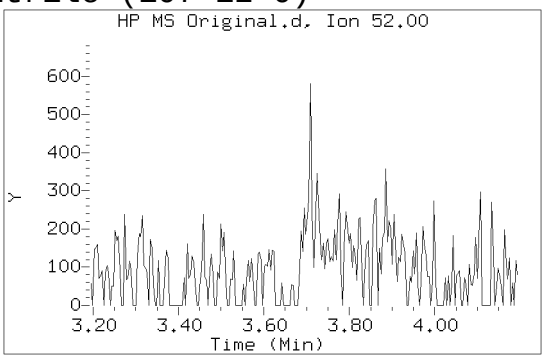
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)

Reason Code:

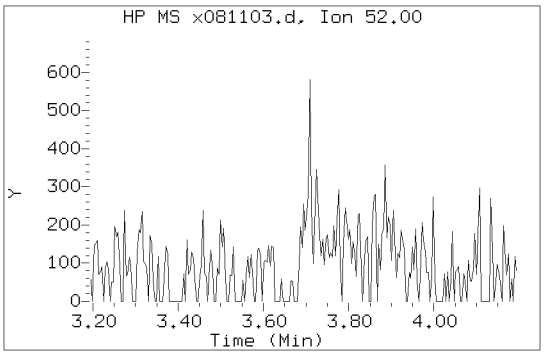
BEFORE

MASS
126
AREA
5099
HEIGHT
2349
12-Aug-2023
22:44



AFTER

MASS
52
AREA
0
HEIGHT
0
23-Aug-2023
11:12

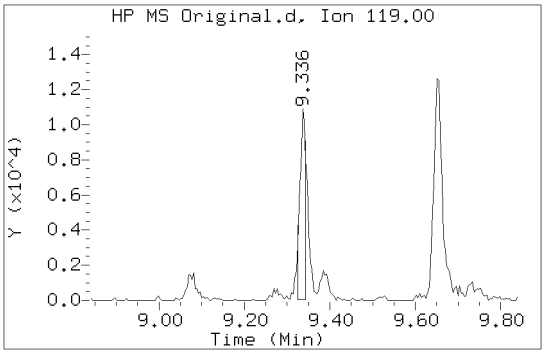


tert-Butylbenzene (98-06-6)

Reason Code:

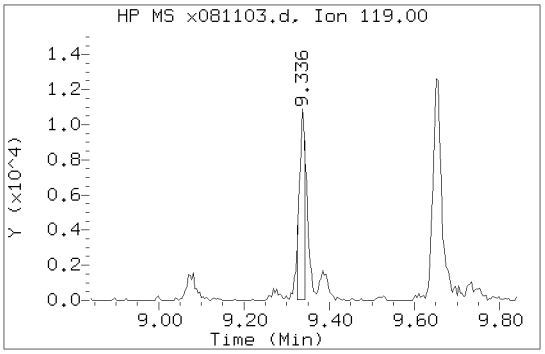
BEFORE

MASS
54
AREA
4117
HEIGHT
1515
12-Aug-2023
22:44



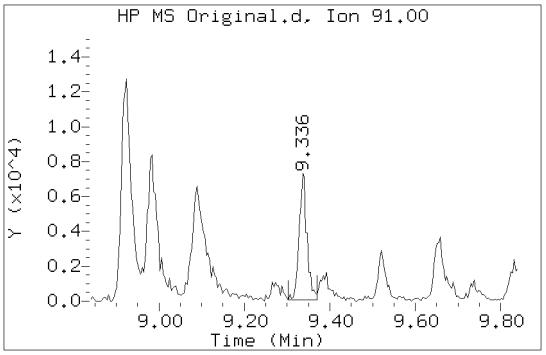
AFTER

MASS
119
AREA
10385
HEIGHT
10865
23-Aug-2023
11:12



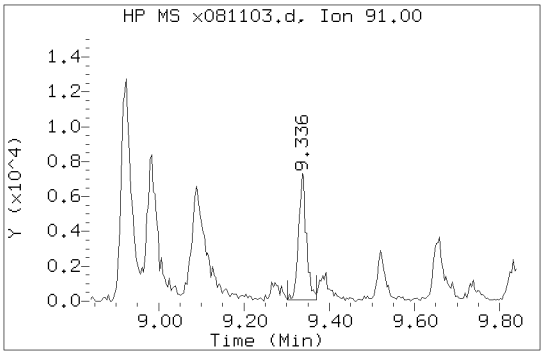
BEFORE

MASS
52
AREA
0
HEIGHT
0
12-Aug-2023
22:44



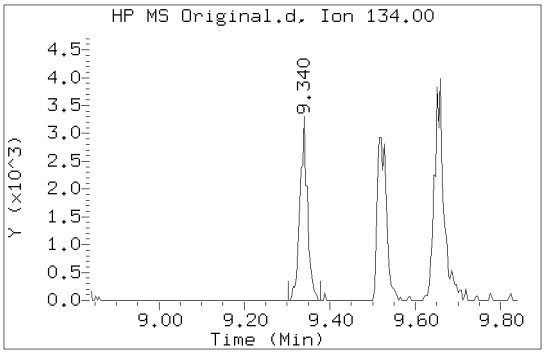
AFTER

MASS
91
AREA
9489
HEIGHT
7277
23-Aug-2023
11:12



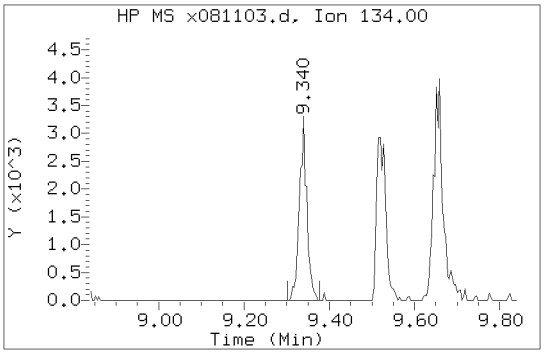
BEFORE

MASS
55
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER

MASS
134
AREA
4093
HEIGHT
3299
23-Aug-2023
11:12



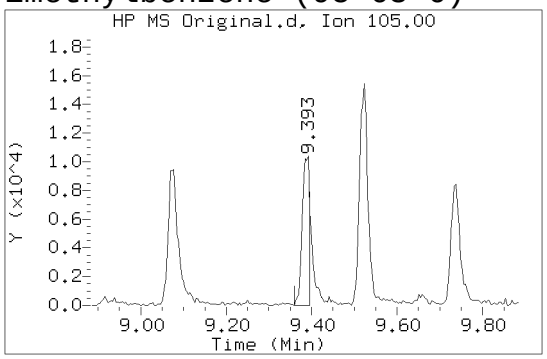
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

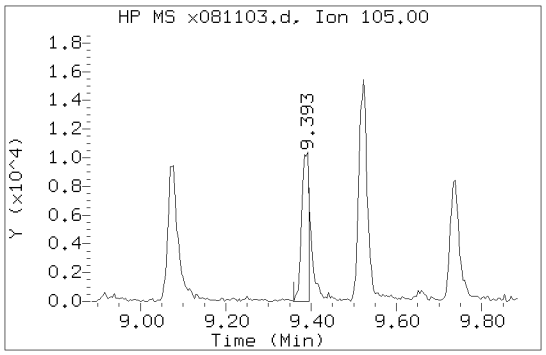
BEFORE

MASS
119
AREA
10385
HEIGHT
10865
12-Aug-2023
22:44



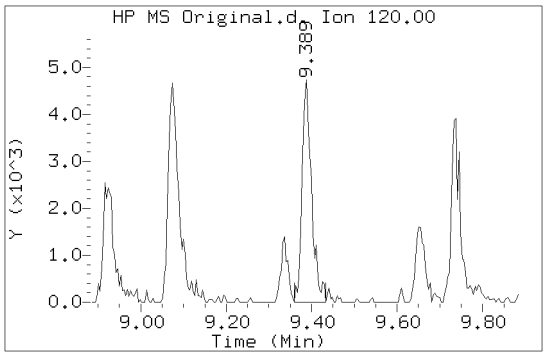
AFTER

MASS
105
AREA
12812
HEIGHT
10393
23-Aug-2023
11:12



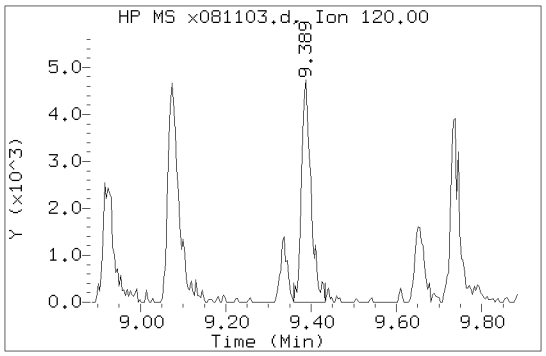
BEFORE

MASS
91
AREA
9489
HEIGHT
7277
12-Aug-2023
22:44



AFTER

MASS
120
AREA
7493
HEIGHT
4736
23-Aug-2023
11:12

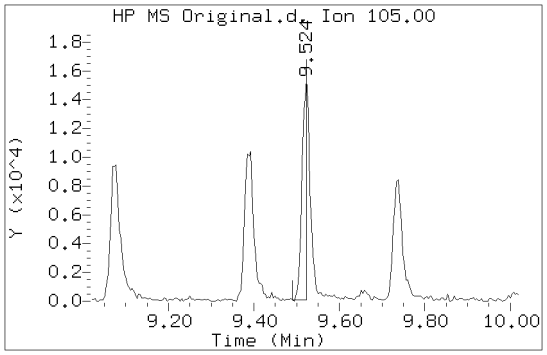


sec-Butylbenzene (135-98-8)

Reason Code:

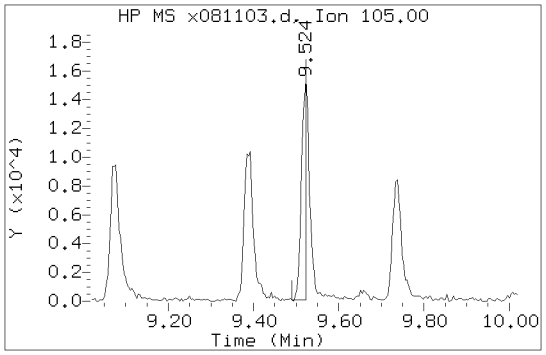
BEFORE

MASS
105
AREA
12812
HEIGHT
10393
12-Aug-2023
22:44



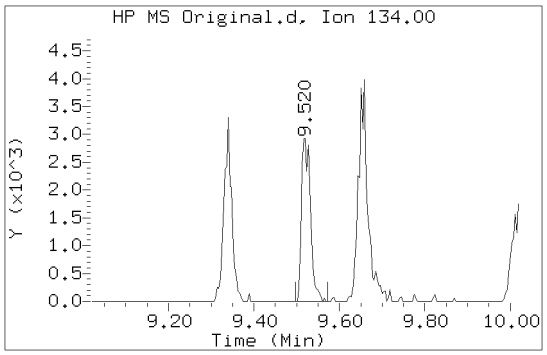
AFTER

MASS
105
AREA
13358
HEIGHT
15342
23-Aug-2023
11:12



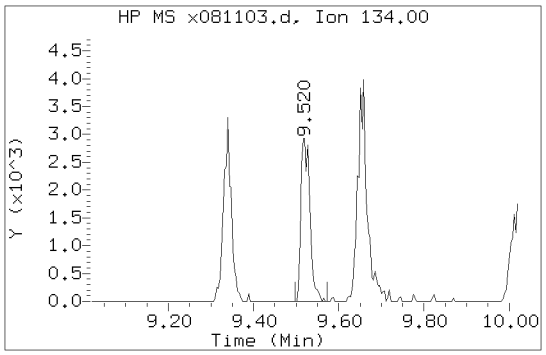
BEFORE

MASS
120
AREA
7493
HEIGHT
4736
12-Aug-2023
22:44



AFTER

MASS
134
AREA
4422
HEIGHT
2927
23-Aug-2023
11:12

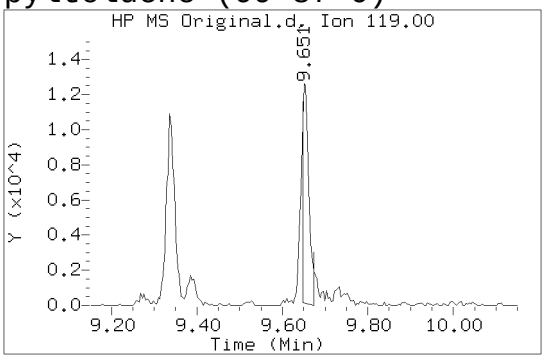


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081103.d
Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

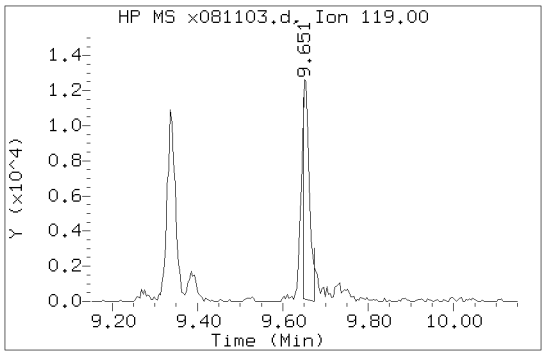
p-Isopropyltoluene (99-87-6)

Reason Code:

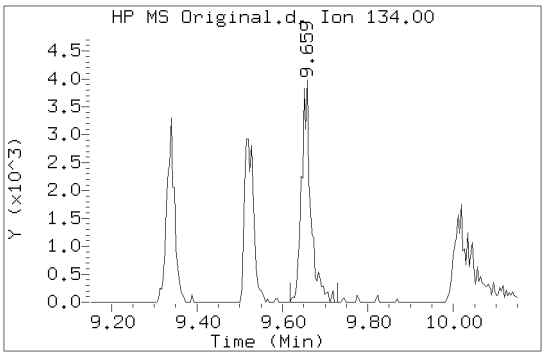
BEFORE
MASS
41
AREA
2840
HEIGHT
1642
12-Aug-2023
22:44



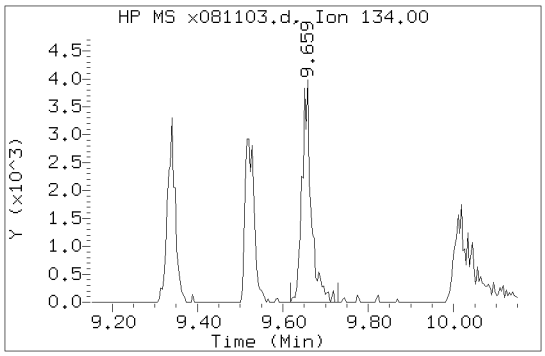
AFTER
MASS
119
AREA
13394
HEIGHT
12490
23-Aug-2023
11:12



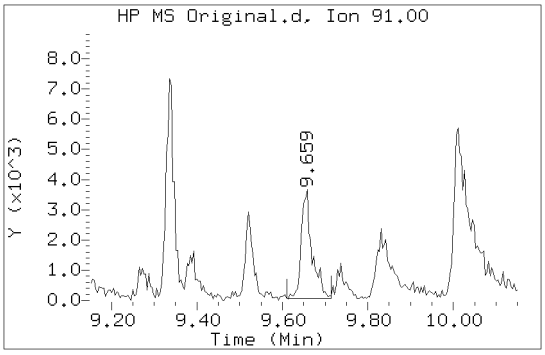
BEFORE
MASS
69
AREA
1589
HEIGHT
895
12-Aug-2023
22:44



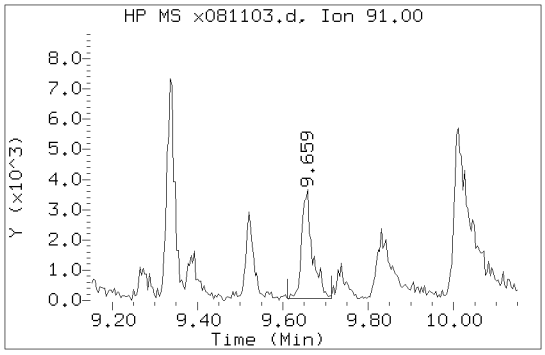
AFTER
MASS
134
AREA
6077
HEIGHT
3982
23-Aug-2023
11:12



BEFORE
MASS
100
AREA
846
HEIGHT
598
12-Aug-2023
22:44



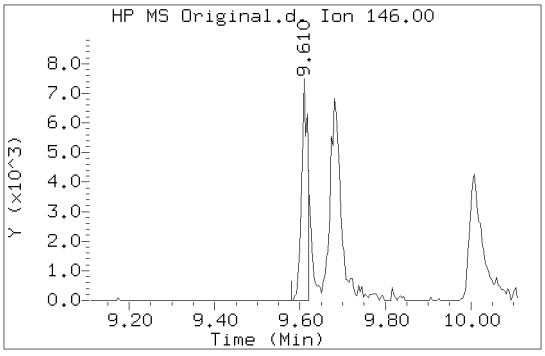
AFTER
MASS
91
AREA
6454
HEIGHT
3607
23-Aug-2023
11:12



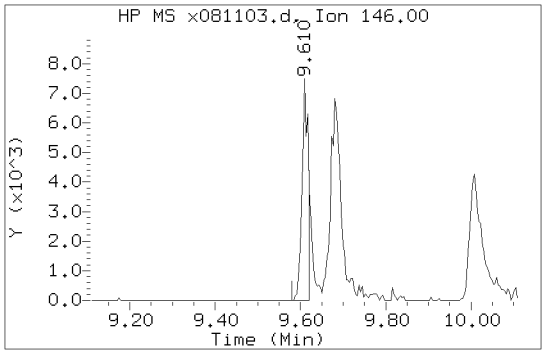
1,3-Dichlorobenzene (541-73-1)

Reason Code:

BEFORE
MASS
119
AREA
13394
HEIGHT
12490
12-Aug-2023
22:44



AFTER
MASS
146
AREA
7795
HEIGHT
7495
23-Aug-2023
11:12

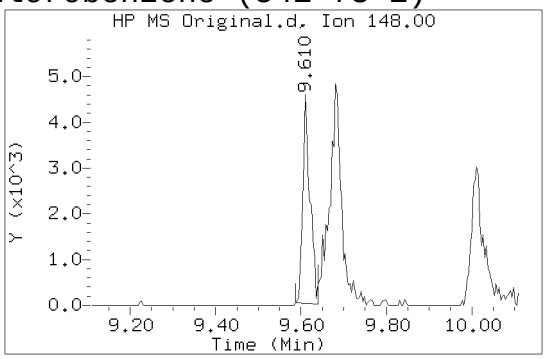


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InstruID : voa6.i
LabSampID : VSTD000.5

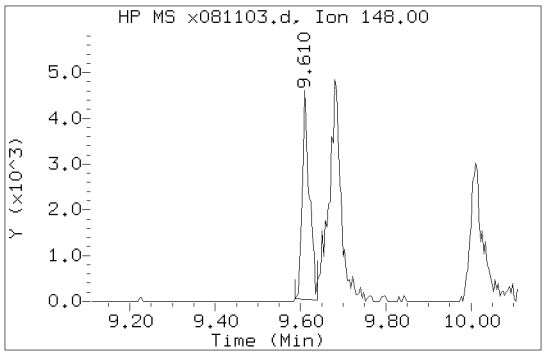
1,3-Dichlorobenzene (541-73-1)

Reason Code:

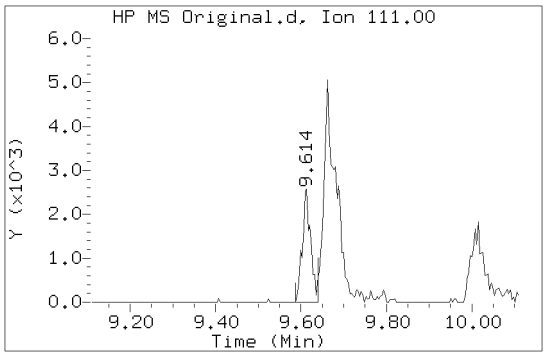
BEFORE
MASS
134
AREA
6077
HEIGHT
3982
12-Aug-2023
22:44



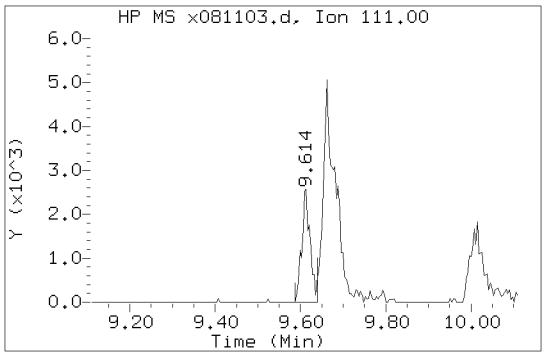
AFTER
MASS
148
AREA
5529
HEIGHT
4571
23-Aug-2023
11:12



BEFORE
MASS
91
AREA
6454
HEIGHT
3607
12-Aug-2023
22:44



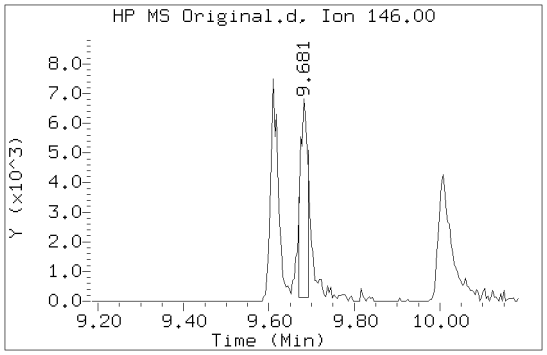
AFTER
MASS
111
AREA
3654
HEIGHT
2574
23-Aug-2023
11:12



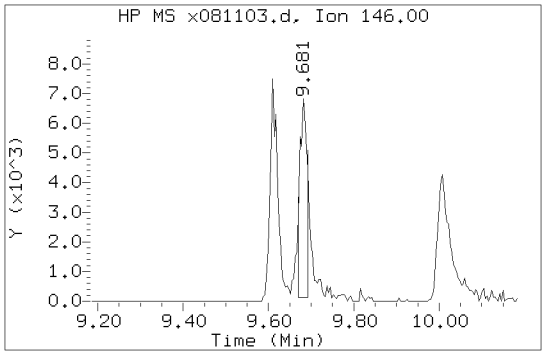
1,4-Dichlorobenzene (106-46-7)

Reason Code:

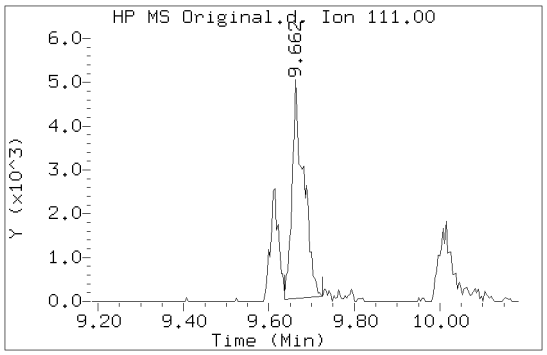
BEFORE
MASS
146
AREA
7795
HEIGHT
7495
12-Aug-2023
22:44



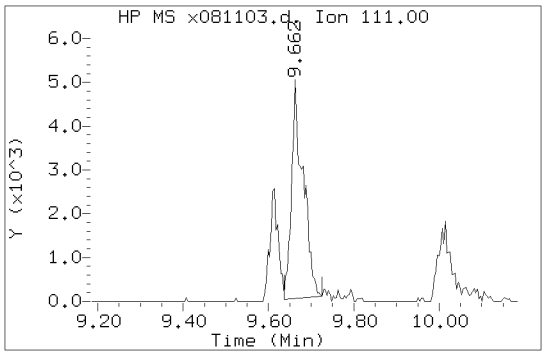
AFTER
MASS
146
AREA
8042
HEIGHT
6690
23-Aug-2023
11:12



BEFORE
MASS
148
AREA
5529
HEIGHT
4571
12-Aug-2023
22:44



AFTER
MASS
111
AREA
9494
HEIGHT
4997
23-Aug-2023
11:12

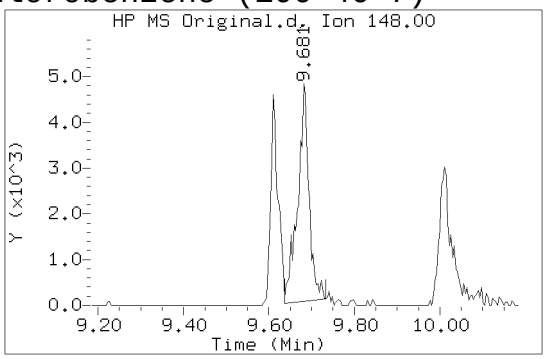


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InstruID : voa6.i
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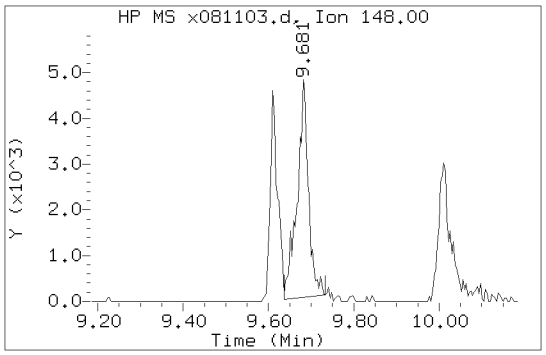
1,4-Dichlorobenzene (106-46-7)

Reason Code:

BEFORE
MASS
111
AREA
3654
HEIGHT
2574
12-Aug-2023
22:44



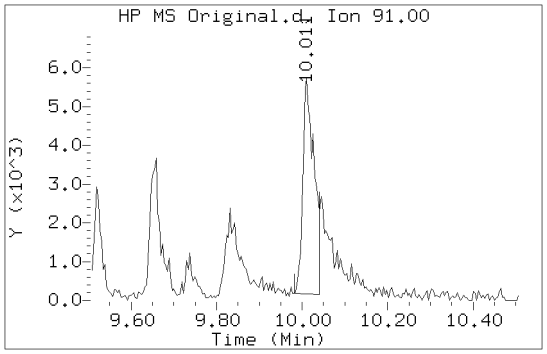
AFTER
MASS
148
AREA
8948
HEIGHT
4758
23-Aug-2023
11:12



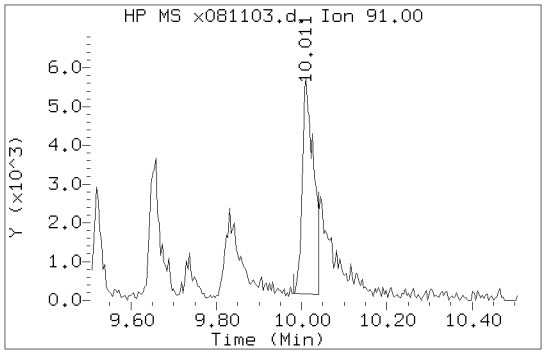
n-Butylbenzene (104-51-8)

Reason Code:

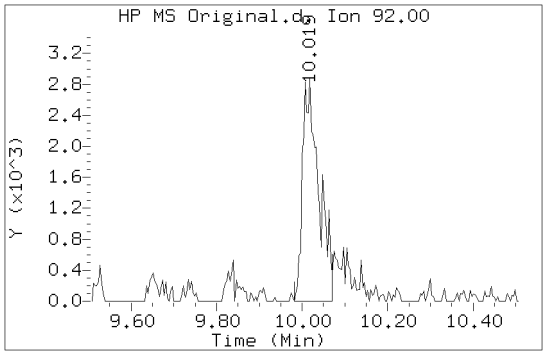
BEFORE
MASS
91
AREA
10518
HEIGHT
5560
12-Aug-2023
22:44



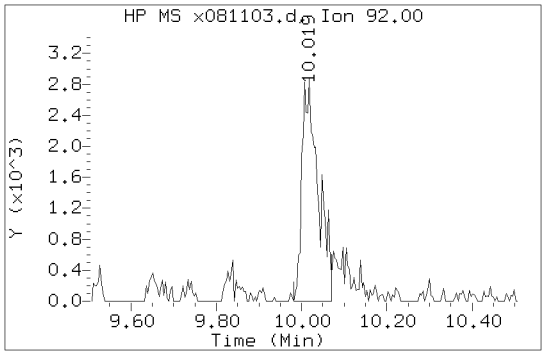
AFTER
MASS
91
AREA
10518
HEIGHT
5560
23-Aug-2023
11:12



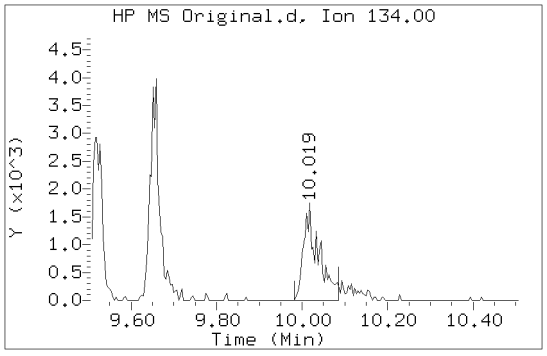
BEFORE
MASS
92
AREA
7722
HEIGHT
2870
12-Aug-2023
22:44



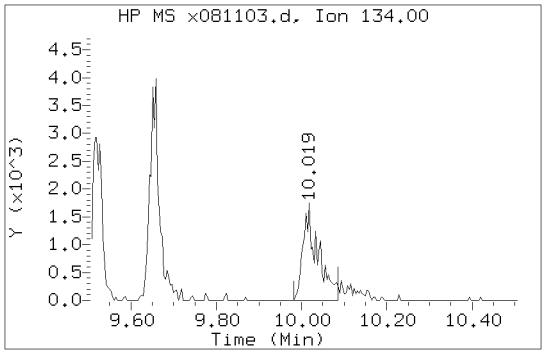
AFTER
MASS
92
AREA
7722
HEIGHT
2870
23-Aug-2023
11:12



BEFORE
MASS
134
AREA
4266
HEIGHT
1745
12-Aug-2023
22:44



AFTER
MASS
134
AREA
4266
HEIGHT
1745
23-Aug-2023
11:12

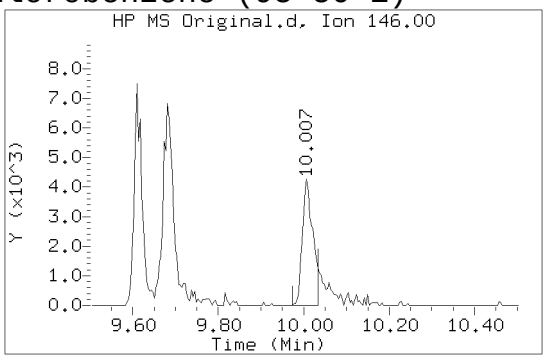


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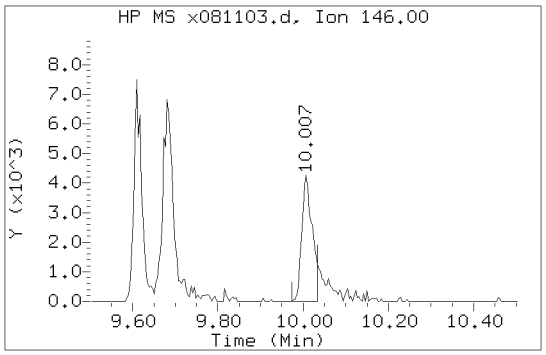
1,2-Dichlorobenzene (95-50-1)

Reason Code:

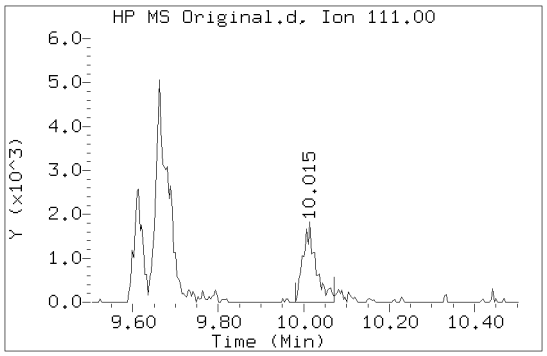
BEFORE
MASS
146
AREA
7410
HEIGHT
4267
12-Aug-2023
22:44



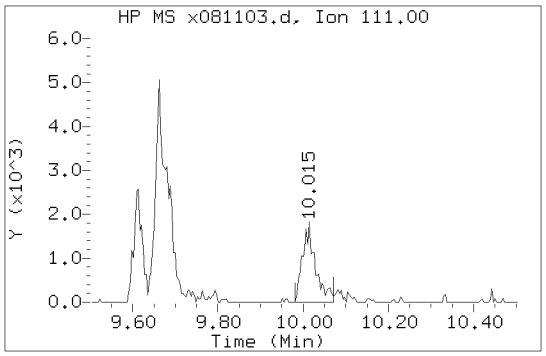
AFTER
MASS
146
AREA
7410
HEIGHT
4267
23-Aug-2023
11:12



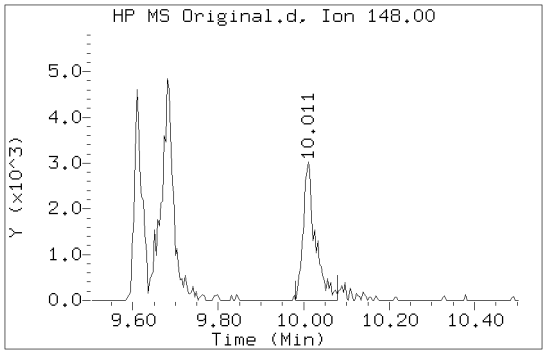
BEFORE
MASS
111
AREA
3878
HEIGHT
1827
12-Aug-2023
22:44



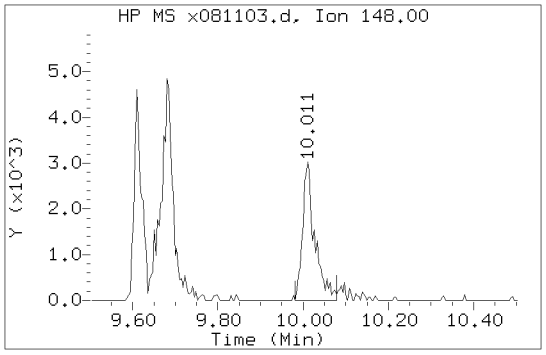
AFTER
MASS
111
AREA
3878
HEIGHT
1827
23-Aug-2023
11:12



BEFORE
MASS
148
AREA
6094
HEIGHT
3030
12-Aug-2023
22:44



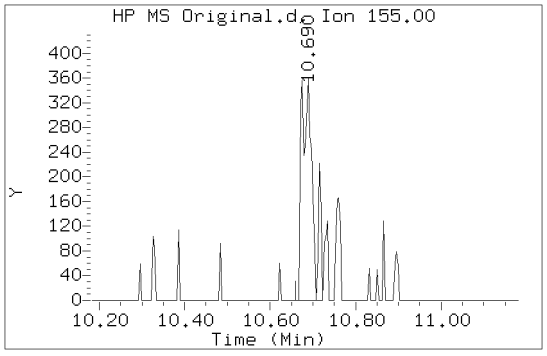
AFTER
MASS
148
AREA
6094
HEIGHT
3030
23-Aug-2023
11:12



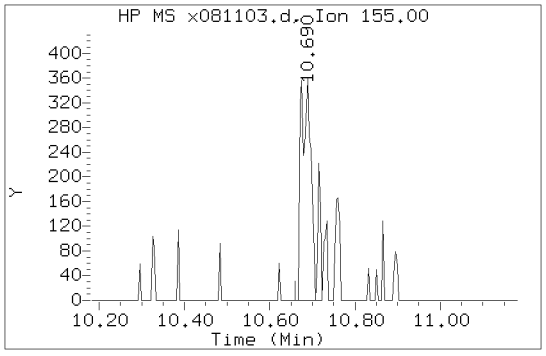
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

BEFORE
MASS
155
AREA
676
HEIGHT
359
12-Aug-2023
22:44



AFTER
MASS
155
AREA
676
HEIGHT
359
23-Aug-2023
11:12

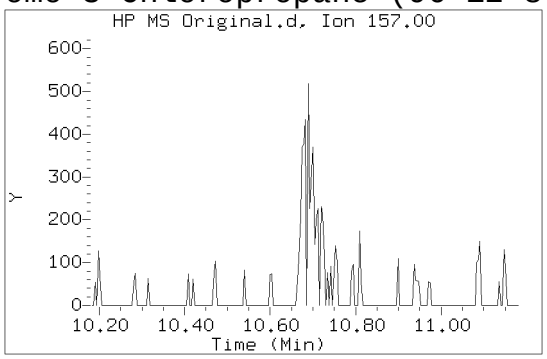


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InstruID : voa6.i
LabSampID : VSTD000.5

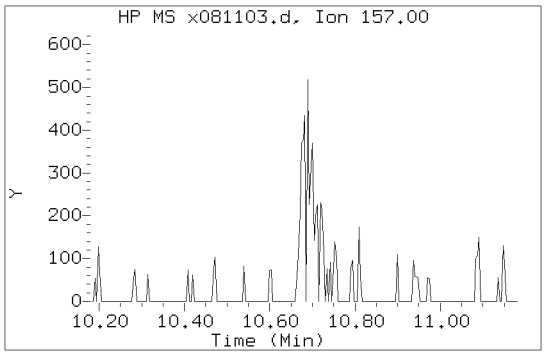
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

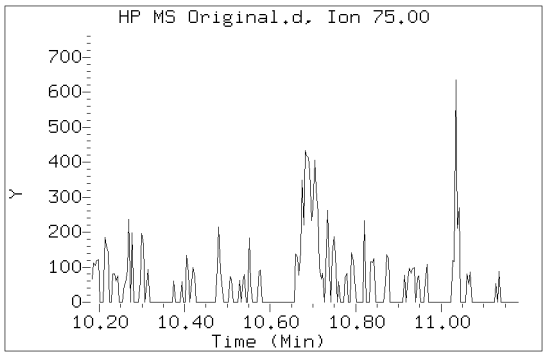
BEFORE
MASS
157
AREA
0
HEIGHT
0
12-Aug-2023
22:44



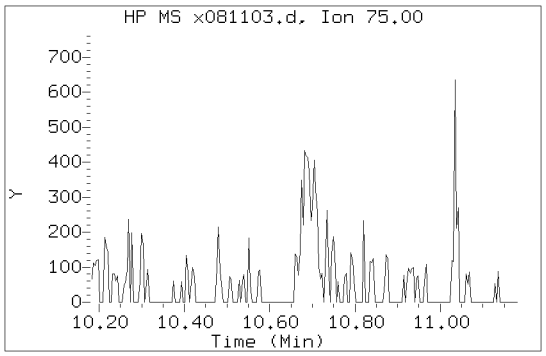
AFTER
MASS
157
AREA
0
HEIGHT
0
23-Aug-2023
11:12



BEFORE
MASS
75
AREA
0
HEIGHT
0
12-Aug-2023
22:44



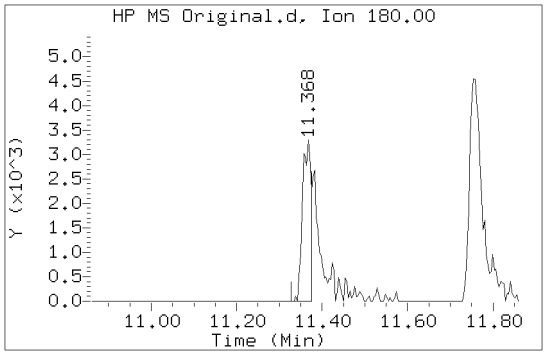
AFTER
MASS
75
AREA
0
HEIGHT
0
23-Aug-2023
11:12



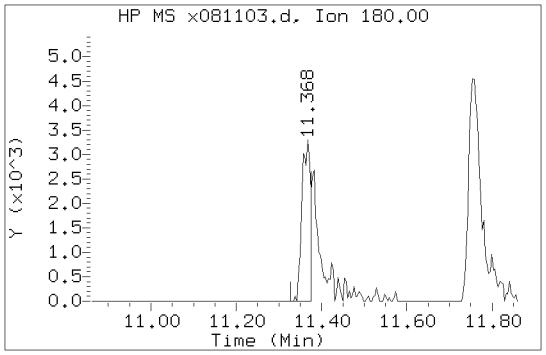
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

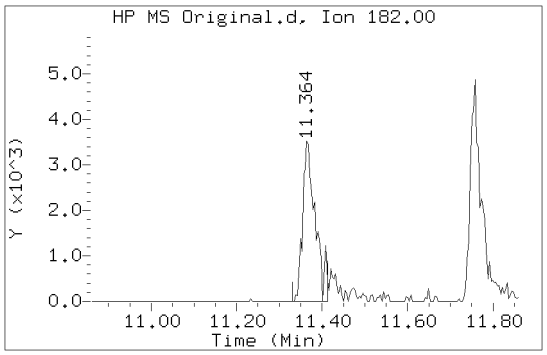
BEFORE
MASS
180
AREA
4663
HEIGHT
3304
12-Aug-2023
22:44



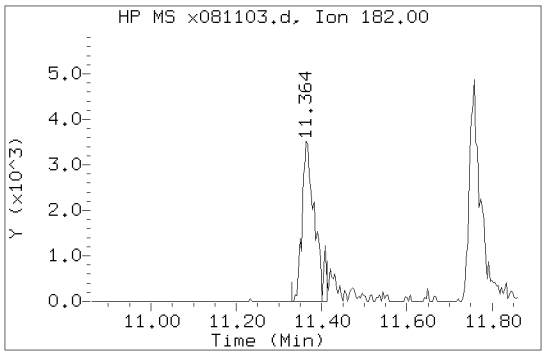
AFTER
MASS
180
AREA
4663
HEIGHT
3304
23-Aug-2023
11:12



BEFORE
MASS
182
AREA
7442
HEIGHT
3523
12-Aug-2023
22:44



AFTER
MASS
182
AREA
7442
HEIGHT
3523
23-Aug-2023
11:12

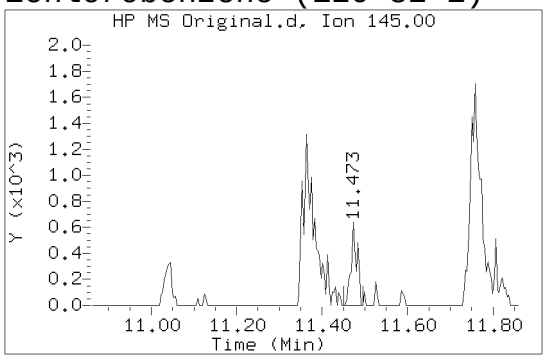


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LabSampID : VSTD000.5

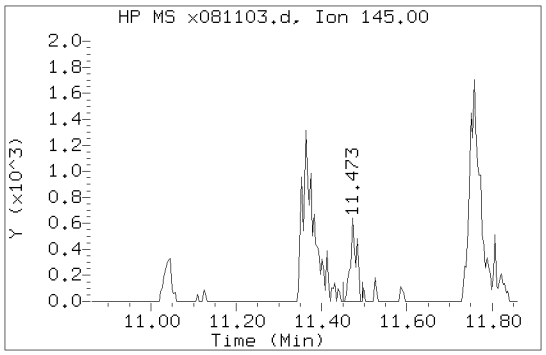
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE
MASS
145
AREA
624
HEIGHT
639
12-Aug-2023
22:44



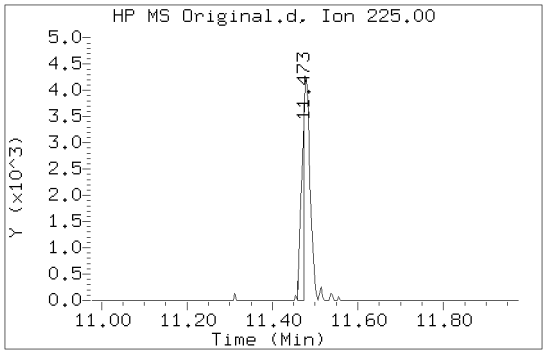
AFTER
MASS
145
AREA
624
HEIGHT
639
23-Aug-2023
11:12



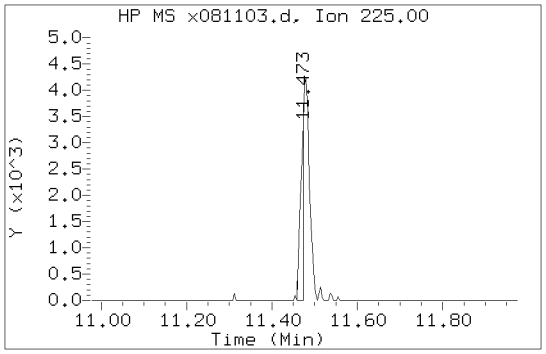
Hexachlorobutadiene (87-68-3)

Reason Code:

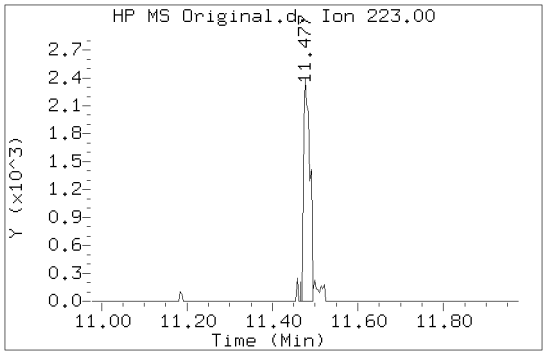
BEFORE
MASS
225
AREA
1914
HEIGHT
3388
12-Aug-2023
22:44



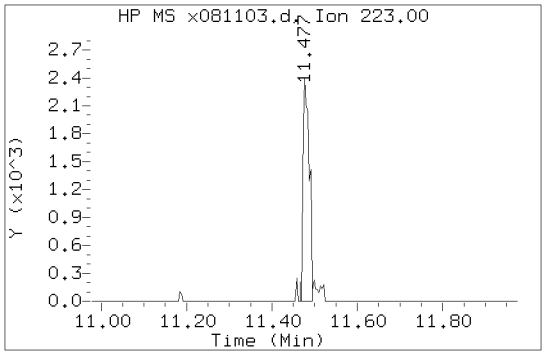
AFTER
MASS
225
AREA
1914
HEIGHT
3388
23-Aug-2023
11:12



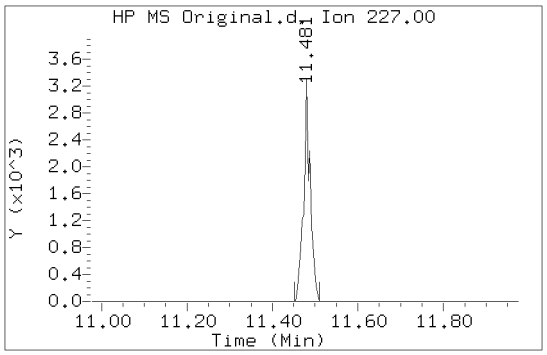
BEFORE
MASS
223
AREA
2534
HEIGHT
2389
12-Aug-2023
22:44



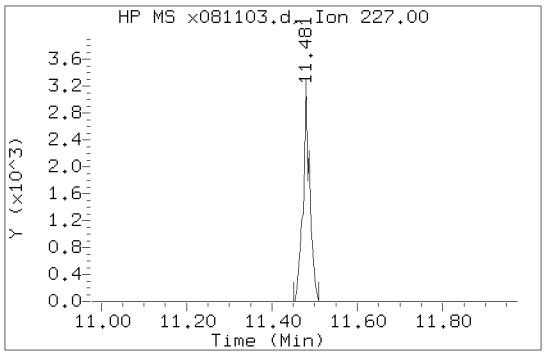
AFTER
MASS
223
AREA
2534
HEIGHT
2389
23-Aug-2023
11:12



BEFORE
MASS
227
AREA
3607
HEIGHT
3296
12-Aug-2023
22:44



AFTER
MASS
227
AREA
3607
HEIGHT
3296
23-Aug-2023
11:12



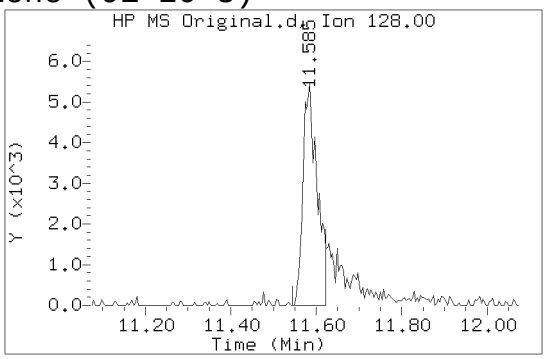
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Naphthalene (91-20-3)

Reason Code:

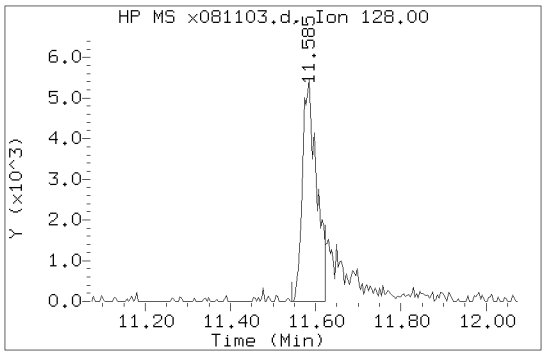
BEFORE

MASS
128
AREA
12804
HEIGHT
5450
12-Aug-2023
22:44



AFTER

MASS
128
AREA
12804
HEIGHT
5450
23-Aug-2023
11:12

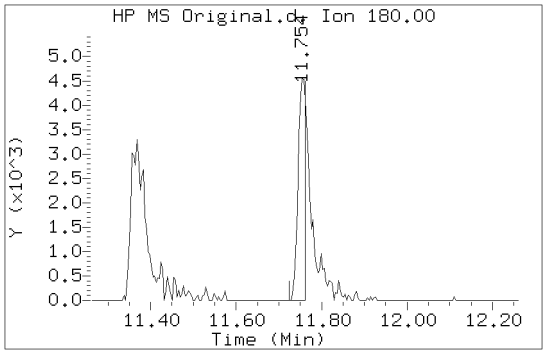


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

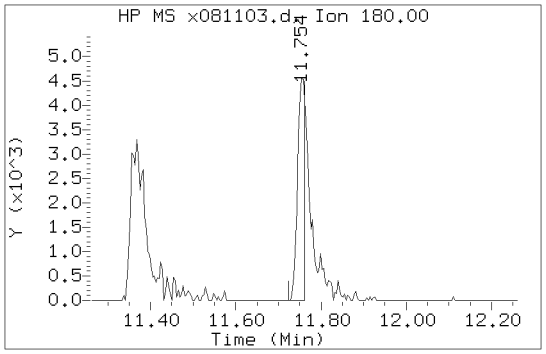
BEFORE

MASS
180
AREA
5452
HEIGHT
4544
12-Aug-2023
22:44



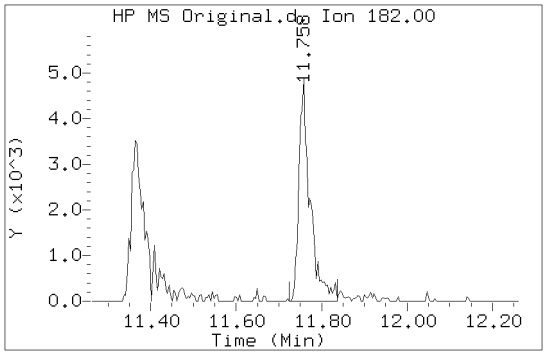
AFTER

MASS
180
AREA
5452
HEIGHT
4544
23-Aug-2023
11:12



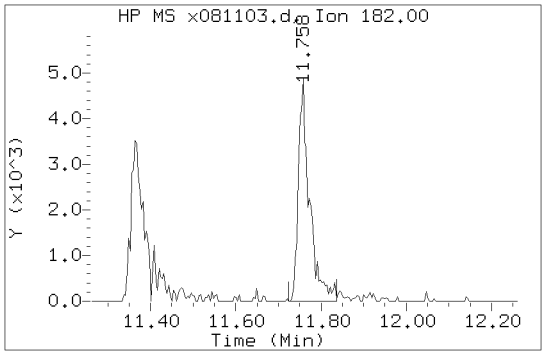
BEFORE

MASS
182
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8964
HEIGHT
4871
12-Aug-2023
22:44



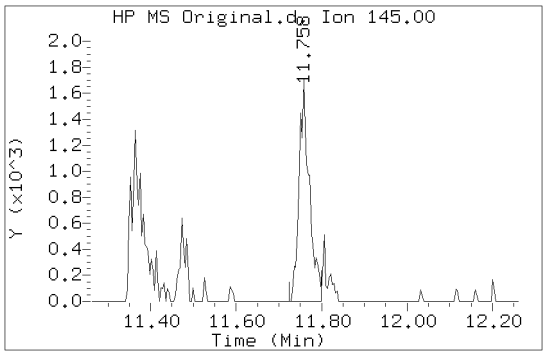
AFTER

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182
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8964
HEIGHT
4871
23-Aug-2023
11:12



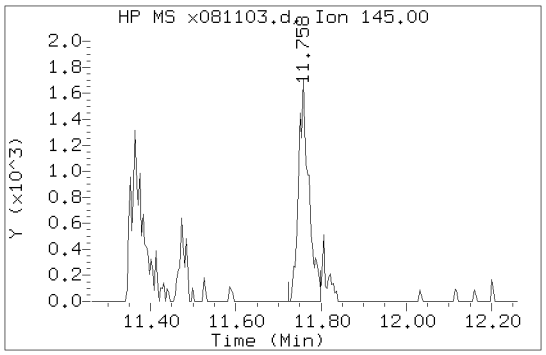
BEFORE

MASS
145
AREA
2897
HEIGHT
1705
12-Aug-2023
22:44



AFTER

MASS
145
AREA
2897
HEIGHT
1705
23-Aug-2023
11:12

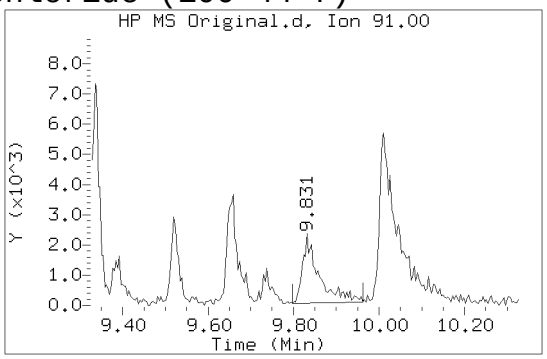


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LabSampID : VSTD000.5

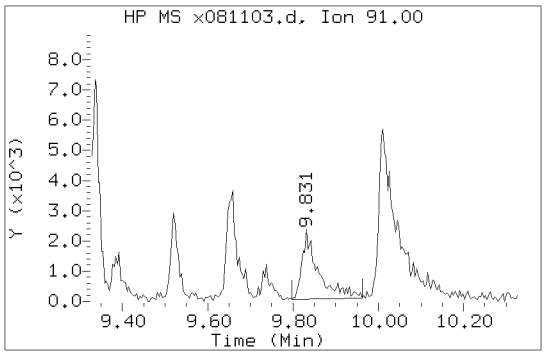
Benzyl Chloride (100-44-7)

Reason Code:

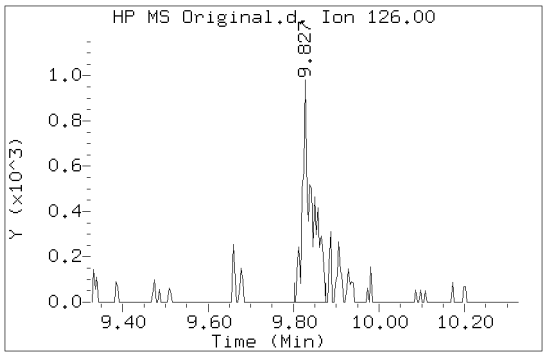
BEFORE
MASS
53
AREA
1260
HEIGHT
536
12-Aug-2023
22:44



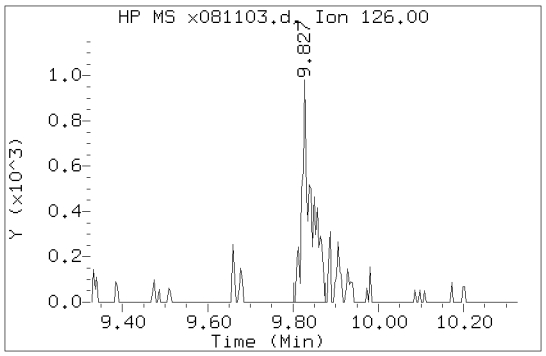
AFTER
MASS
91
AREA
6104
HEIGHT
2311
23-Aug-2023
11:12



BEFORE
MASS
75
AREA
745
HEIGHT
396
12-Aug-2023
22:44



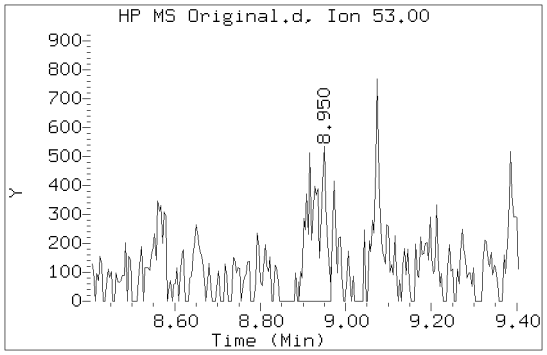
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MASS
126
AREA
1512
HEIGHT
981
23-Aug-2023
11:12



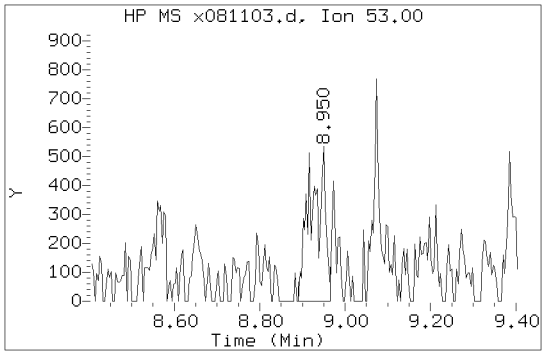
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

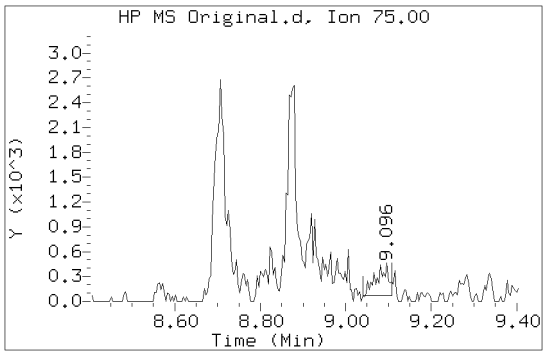
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MASS
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1459
HEIGHT
1634
12-Aug-2023
22:44



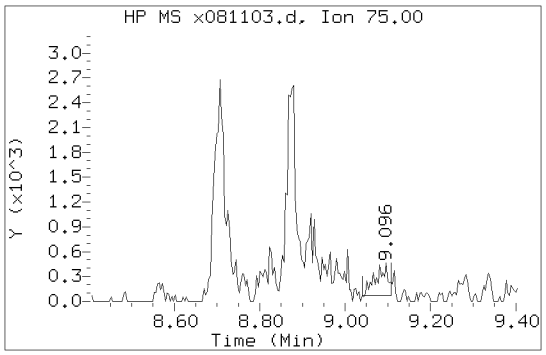
AFTER
MASS
53
AREA
1260
HEIGHT
536
23-Aug-2023
11:12



BEFORE
MASS
88
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER
MASS
75
AREA
745
HEIGHT
396
23-Aug-2023
11:12

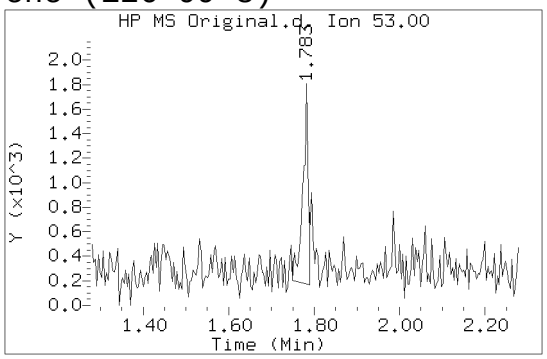


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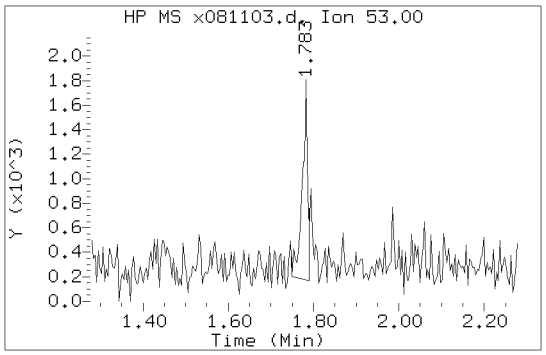
Chloroprene (126-99-8)

Reason Code:

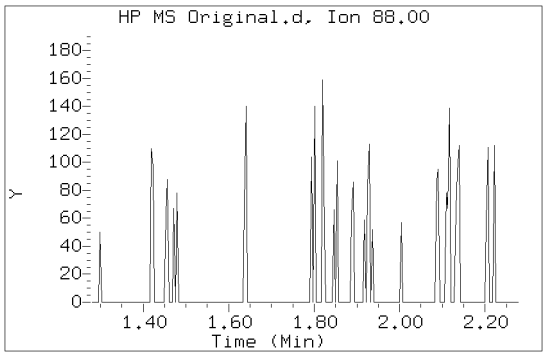
BEFORE
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3740
HEIGHT
1290
12-Aug-2023
22:44



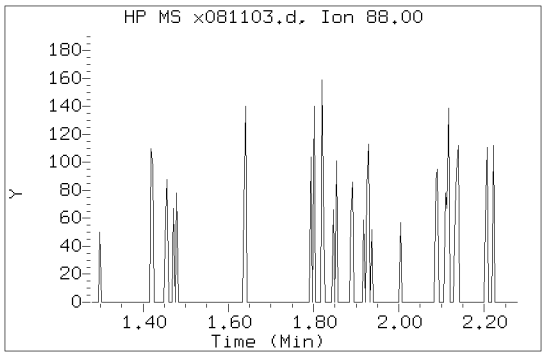
AFTER
MASS
53
AREA
1459
HEIGHT
1634
23-Aug-2023
11:12



BEFORE
MASS
61
AREA
0
HEIGHT
0
12-Aug-2023
22:44



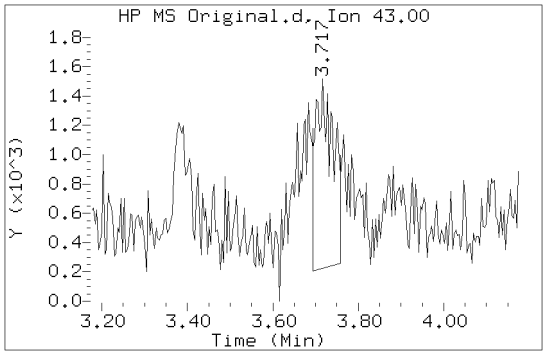
AFTER
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88
AREA
0
HEIGHT
0
23-Aug-2023
11:12



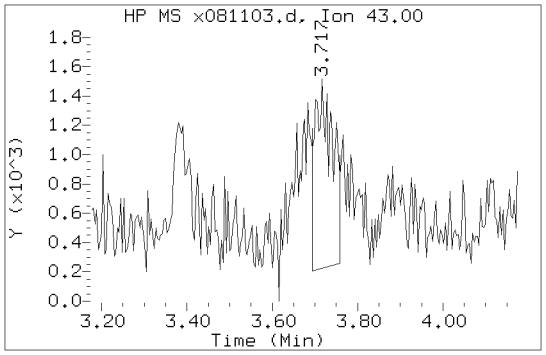
Ethyl Acetate (141-78-6)

Reason Code:

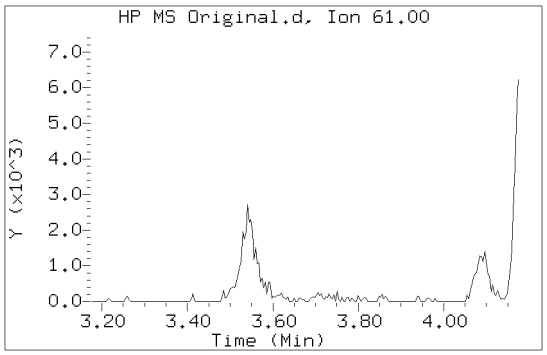
BEFORE
MASS
55
AREA
3259
HEIGHT
1070
12-Aug-2023
22:44



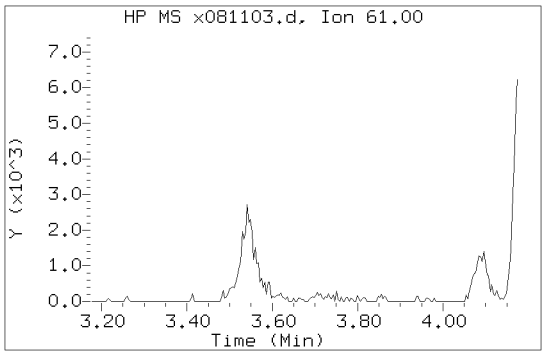
AFTER
MASS
43
AREA
3740
HEIGHT
1290
23-Aug-2023
11:12



BEFORE
MASS
85
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER
MASS
61
AREA
0
HEIGHT
0
23-Aug-2023
11:12

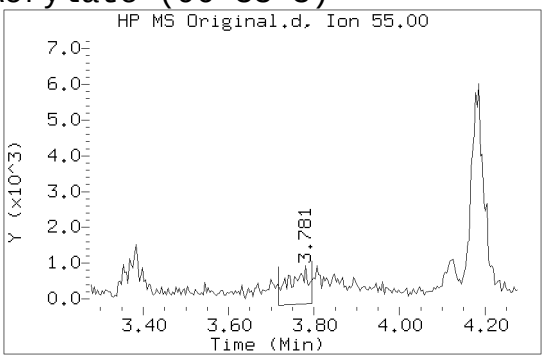


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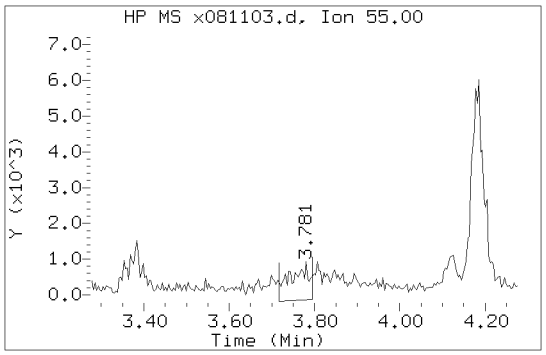
Methyl Acrylate (96-33-3)

Reason Code:

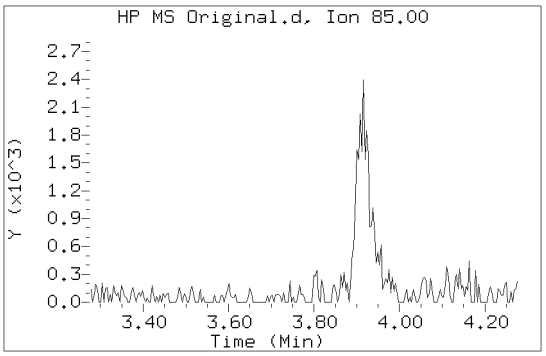
BEFORE
MASS
56
AREA
1373
HEIGHT
760
12-Aug-2023
22:44



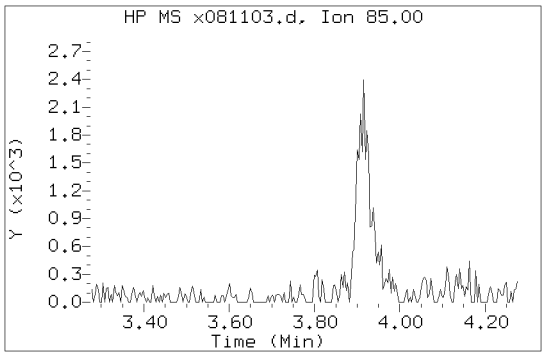
AFTER
MASS
55
AREA
3259
HEIGHT
1070
23-Aug-2023
11:12



BEFORE
MASS
41
AREA
1816
HEIGHT
1155
12-Aug-2023
22:44



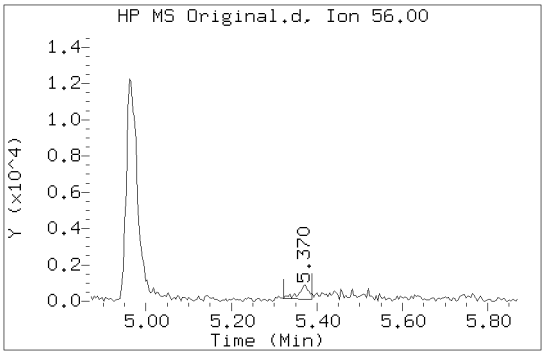
AFTER
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AREA
0
HEIGHT
0
23-Aug-2023
11:12



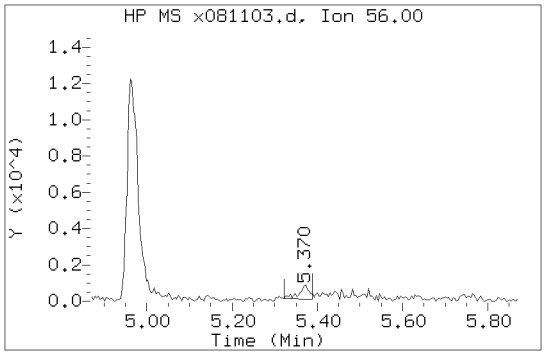
n-Butanol (71-36-3)

Reason Code:

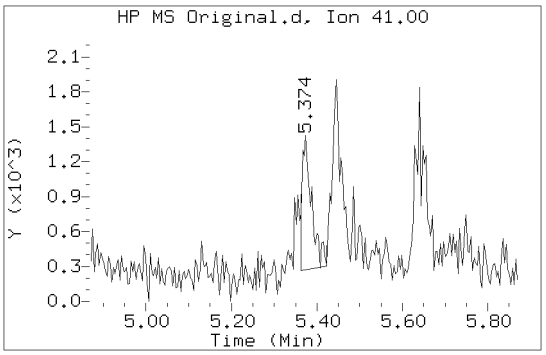
BEFORE
MASS
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AREA
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HEIGHT
2409
12-Aug-2023
22:44



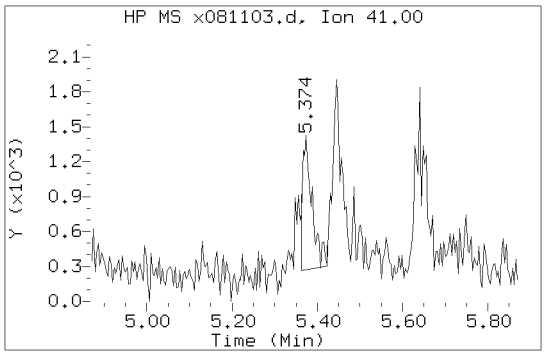
AFTER
MASS
56
AREA
1373
HEIGHT
760
23-Aug-2023
11:12



BEFORE
MASS
99
AREA
0
HEIGHT
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12-Aug-2023
22:44



AFTER
MASS
41
AREA
1816
HEIGHT
1155
23-Aug-2023
11:12

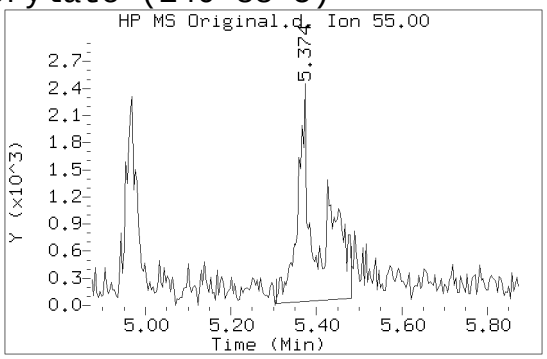


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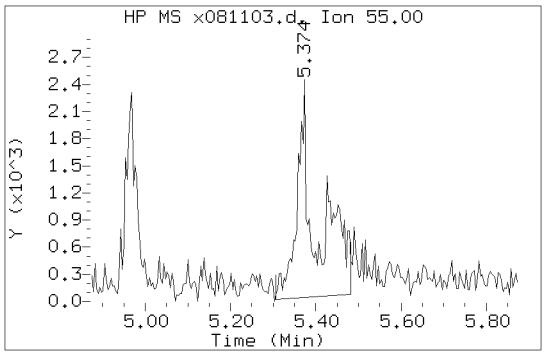
Ethyl Acrylate (140-88-5)

Reason Code:

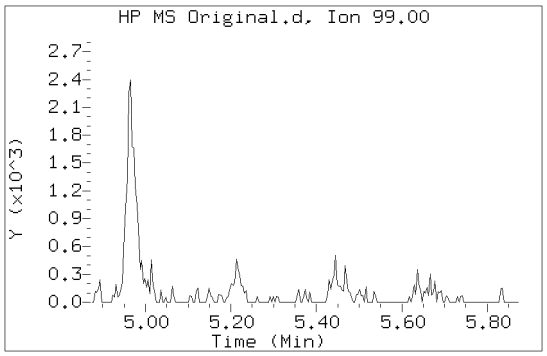
BEFORE
MASS
55
AREA
3494
HEIGHT
3275
12-Aug-2023
22:44



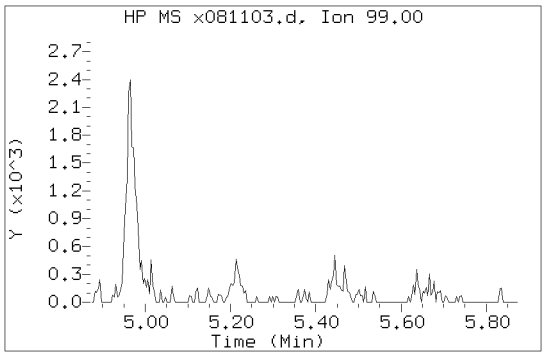
AFTER
MASS
55
AREA
7657
HEIGHT
2409
23-Aug-2023
11:12



BEFORE
MASS
42
AREA
3200
HEIGHT
1599
12-Aug-2023
22:44



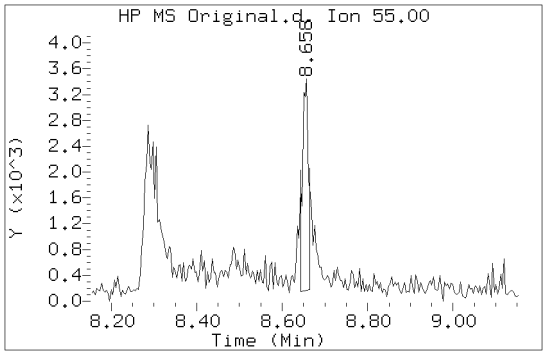
AFTER
MASS
99
AREA
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HEIGHT
0
23-Aug-2023
11:12



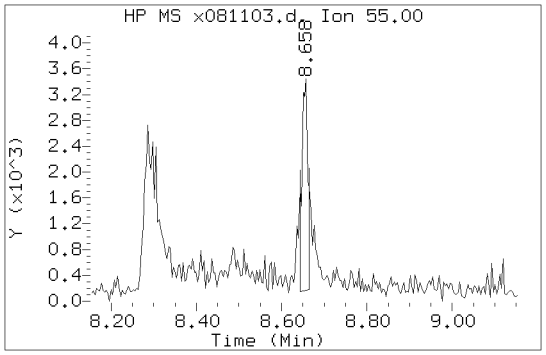
Cyclohexanone (108-94-1)

Reason Code:

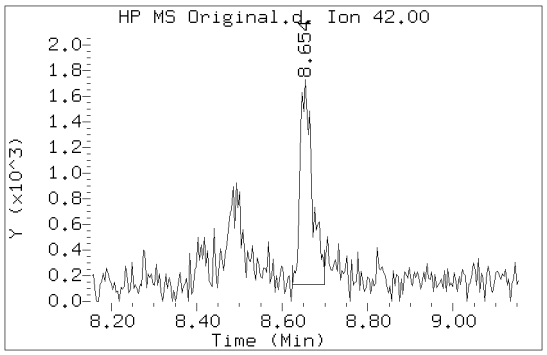
BEFORE
MASS
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AREA
825
HEIGHT
518
12-Aug-2023
22:44



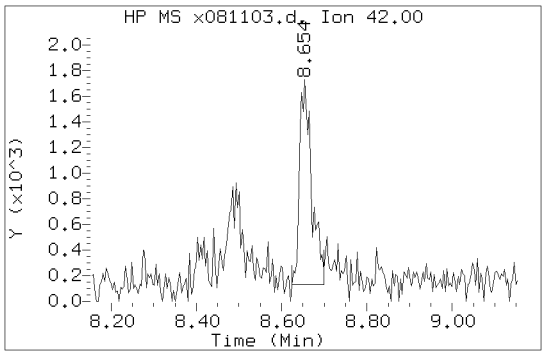
AFTER
MASS
55
AREA
3494
HEIGHT
3275
23-Aug-2023
11:12



BEFORE
MASS
58
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER
MASS
42
AREA
3200
HEIGHT
1599
23-Aug-2023
11:12

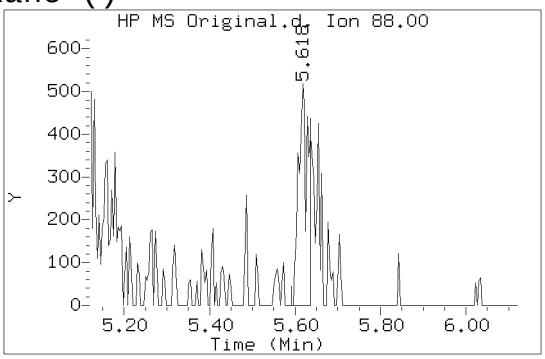


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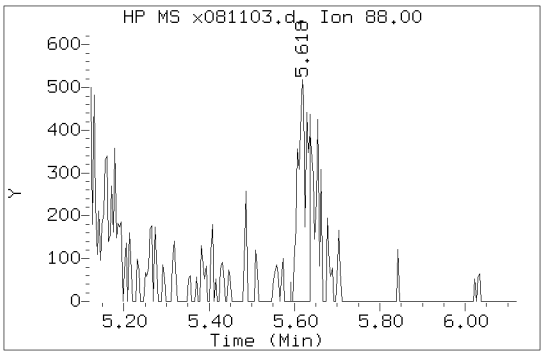
1,4-Dioxane ()

Reason Code:

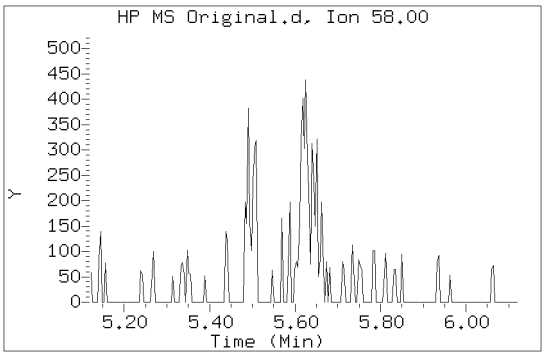
BEFORE
MASS
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AREA
4056
HEIGHT
2392
12-Aug-2023
22:44



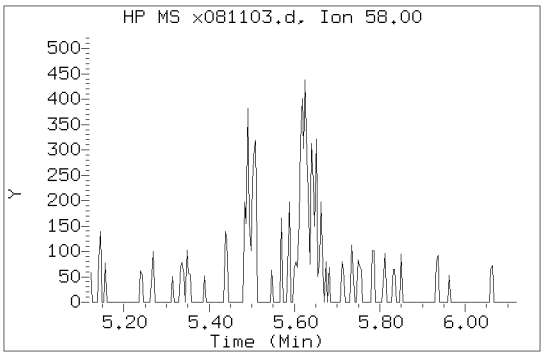
AFTER
MASS
88
AREA
825
HEIGHT
518
23-Aug-2023
11:12



BEFORE
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41
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6537
HEIGHT
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12-Aug-2023
22:44



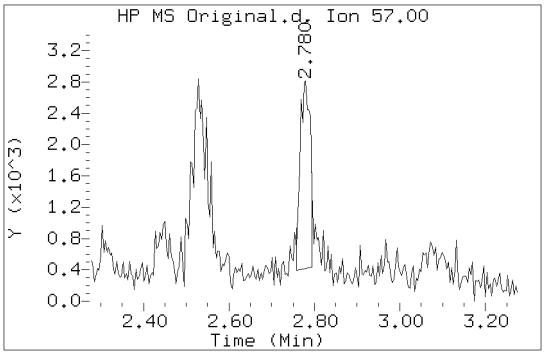
AFTER
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AREA
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HEIGHT
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23-Aug-2023
11:12



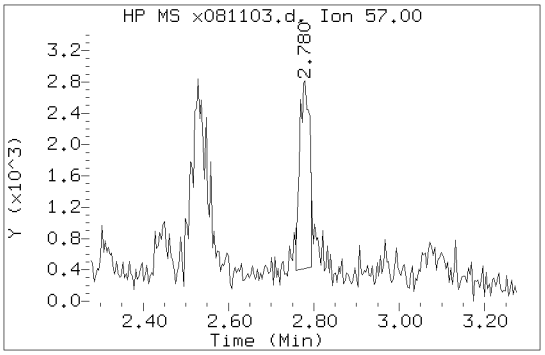
n-Hexane (110-54-3)

Reason Code:

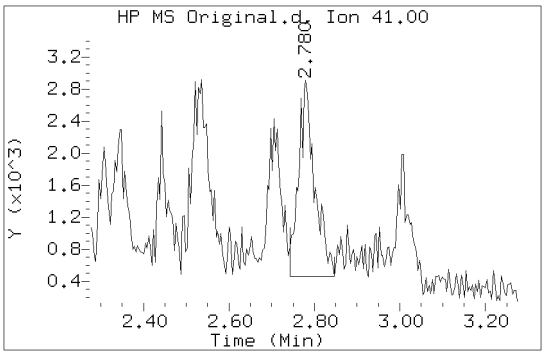
BEFORE
MASS
59
AREA
2930
HEIGHT
2922
12-Aug-2023
22:44



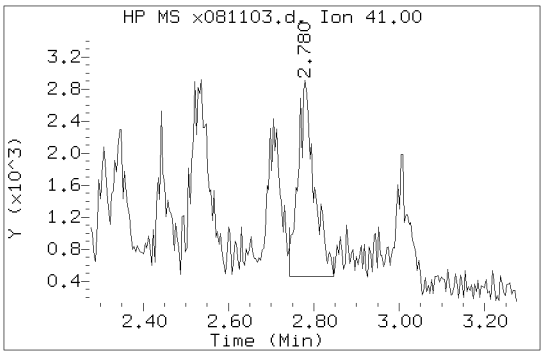
AFTER
MASS
57
AREA
4056
HEIGHT
2392
23-Aug-2023
11:12



BEFORE
MASS
74
AREA
1653
HEIGHT
1402
12-Aug-2023
22:44



AFTER
MASS
41
AREA
6537
HEIGHT
2450
23-Aug-2023
11:12



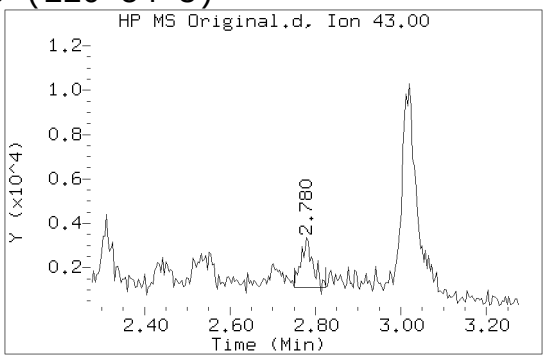
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

n-Hexane (110-54-3)

Reason Code:

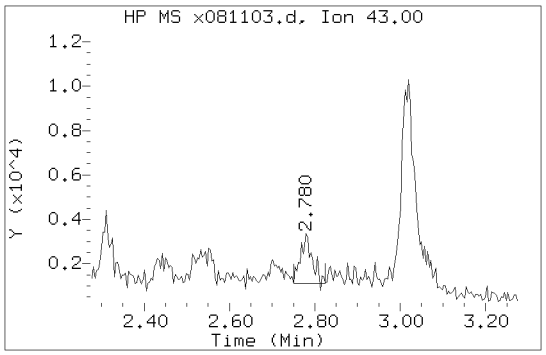
BEFORE

MASS
45
AREA
2242
HEIGHT
1486
12-Aug-2023
22:44



AFTER

MASS
43
AREA
4290
HEIGHT
2253
23-Aug-2023
11:12

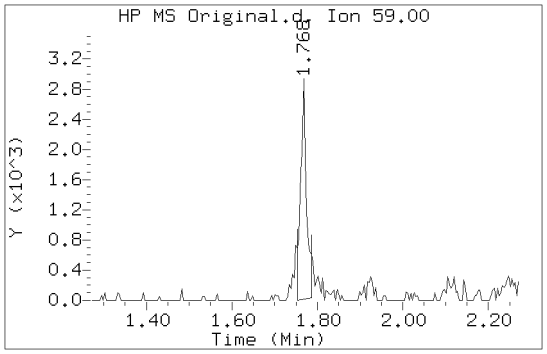


Diethyl ether (60-29-7)

Reason Code:

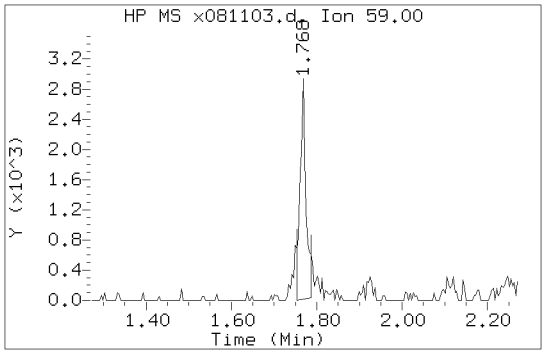
BEFORE

MASS
54
AREA
3838
HEIGHT
4080
12-Aug-2023
22:44



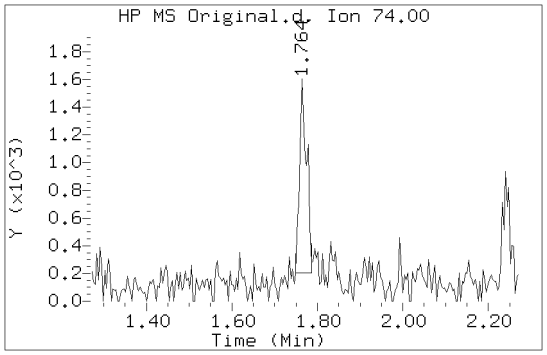
AFTER

MASS
59
AREA
2930
HEIGHT
2922
23-Aug-2023
11:12



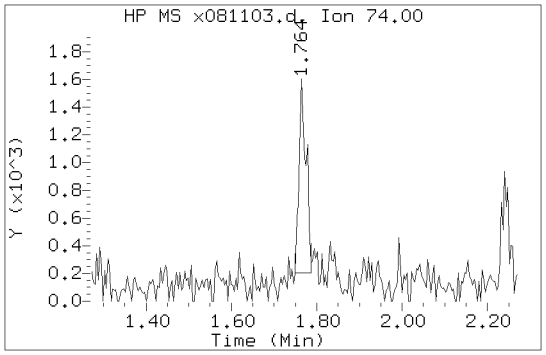
BEFORE

MASS
53
AREA
3036
HEIGHT
3077
12-Aug-2023
22:44



AFTER

MASS
74
AREA
1653
HEIGHT
1402
23-Aug-2023
11:12

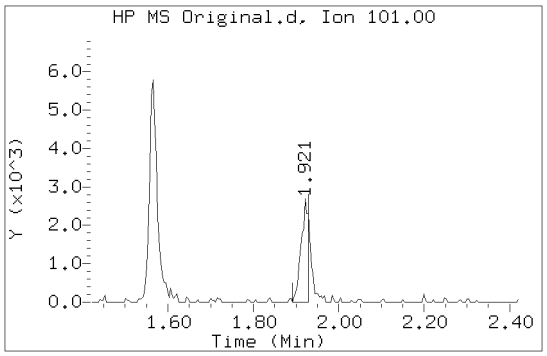


Freon TF (76-13-1)

Reason Code:

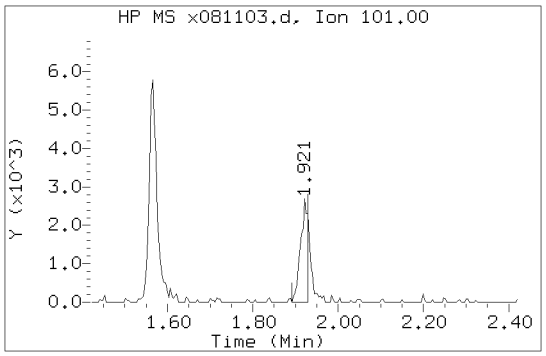
BEFORE

MASS
56
AREA
4440
HEIGHT
2580
12-Aug-2023
22:44



AFTER

MASS
101
AREA
3204
HEIGHT
2695
23-Aug-2023
11:12

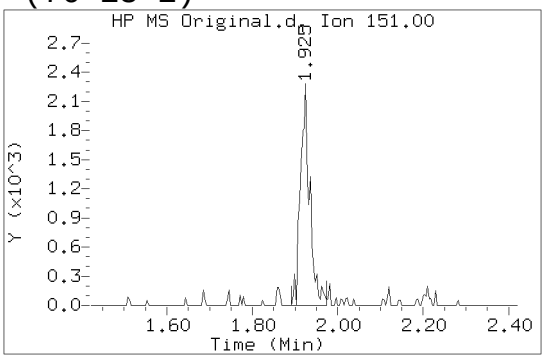


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Freon TF (76-13-1)

BEFORE

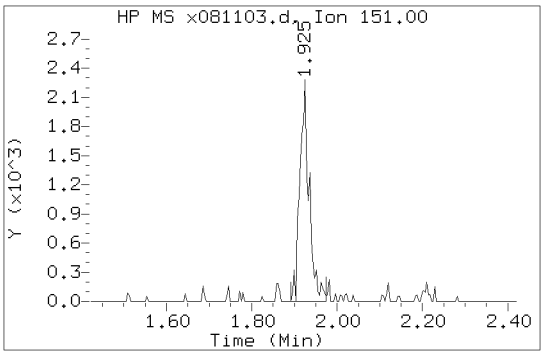
MASS
84
AREA
4567
HEIGHT
2590
12-Aug-2023
22:44



AFTER

MASS
151
AREA
3499
HEIGHT
2282
23-Aug-2023
11:12

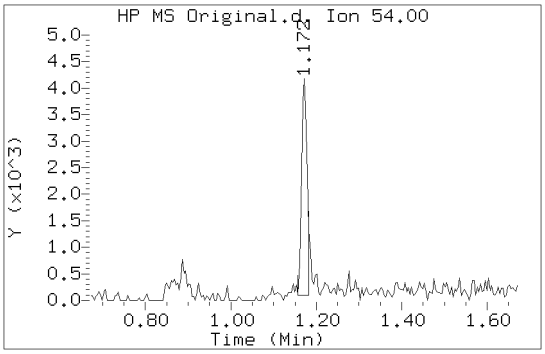
Reason Code:



1,3-Butadiene (106-99-0)

BEFORE

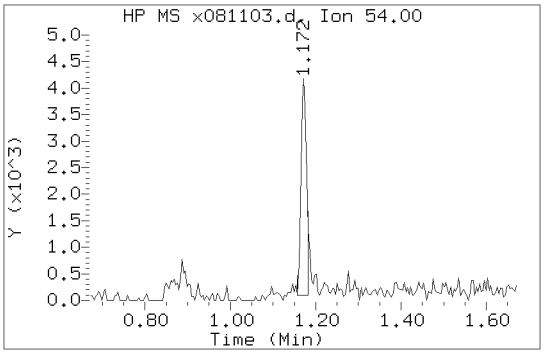
MASS
42
AREA
1419
HEIGHT
954
12-Aug-2023
22:44



AFTER

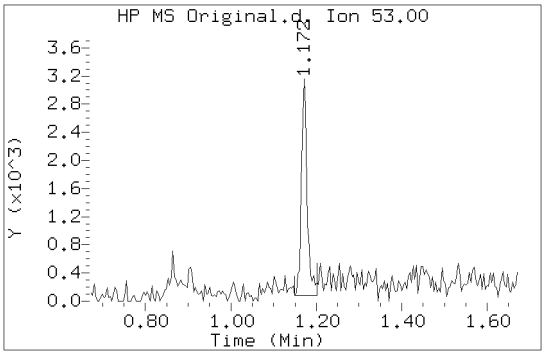
MASS
54
AREA
3838
HEIGHT
4080
23-Aug-2023
11:12

Reason Code:



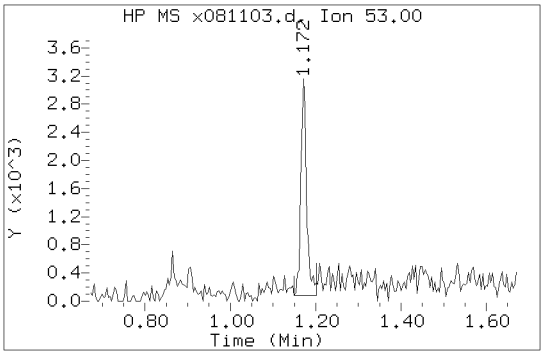
BEFORE

MASS
71
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER

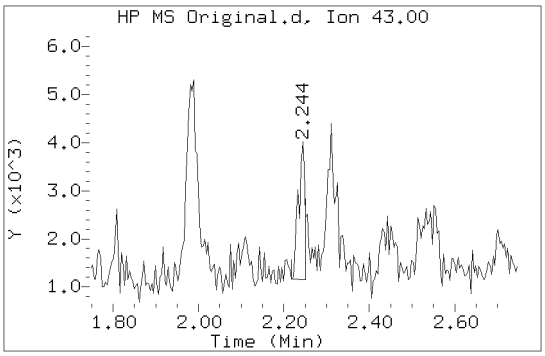
MASS
53
AREA
3036
HEIGHT
3077
23-Aug-2023
11:12



Methyl acetate (79-20-9)

BEFORE

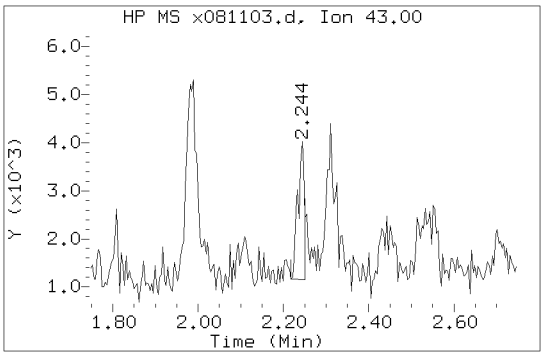
MASS
101
AREA
3204
HEIGHT
2695
12-Aug-2023
22:44



AFTER

MASS
43
AREA
3113
HEIGHT
2865
23-Aug-2023
11:12

Reason Code:

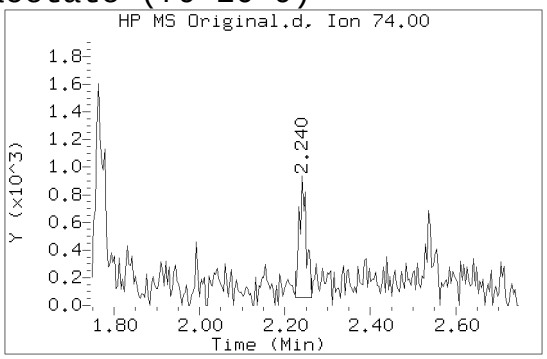


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

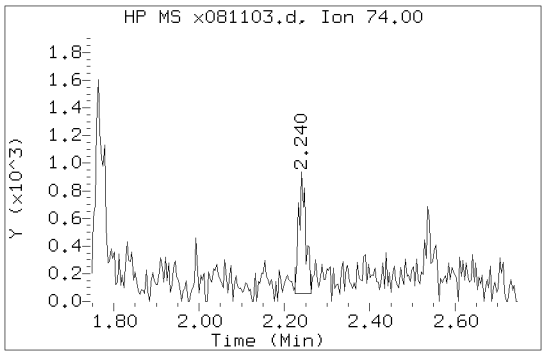
Methyl acetate (79-20-9)

Reason Code:

BEFORE
MASS
151
AREA
3499
HEIGHT
2282
12-Aug-2023
22:44



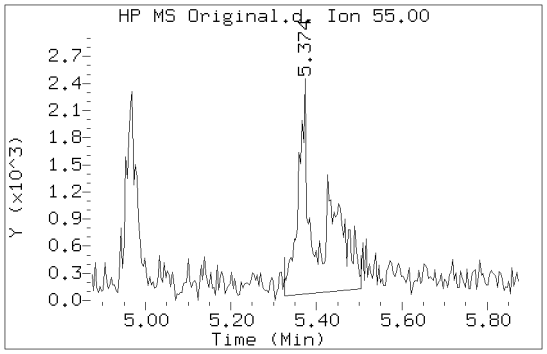
AFTER
MASS
74
AREA
1029
HEIGHT
883
23-Aug-2023
11:12



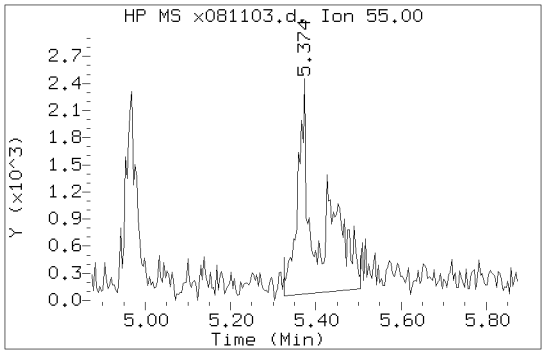
Methylcyclohexane (108-87-2)

Reason Code:

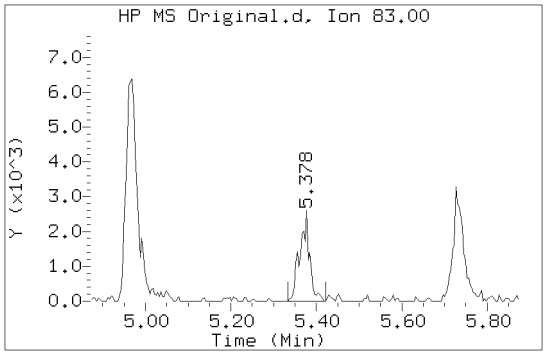
BEFORE
MASS
118
AREA
5954
HEIGHT
4268
12-Aug-2023
22:44



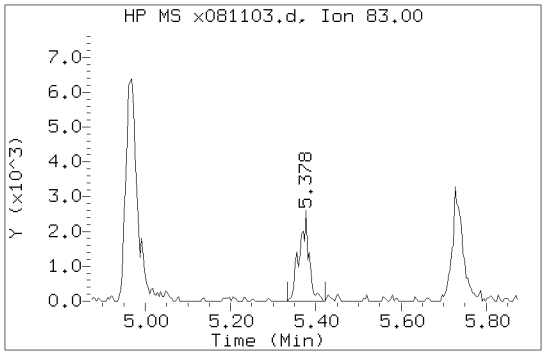
AFTER
MASS
55
AREA
7626
HEIGHT
2381
23-Aug-2023
11:12



BEFORE
MASS
103
AREA
3860
HEIGHT
2367
12-Aug-2023
22:44



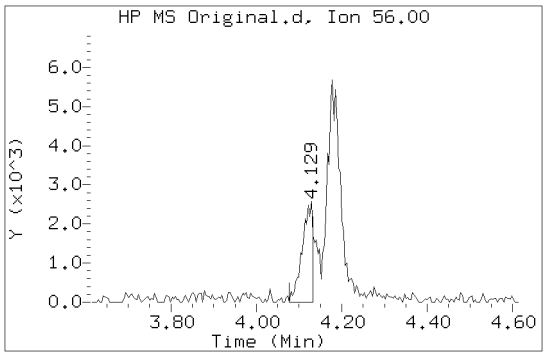
AFTER
MASS
83
AREA
4200
HEIGHT
2600
23-Aug-2023
11:12



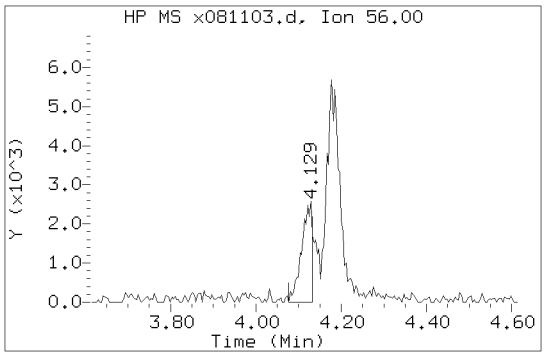
Cyclohexane (110-82-7)

Reason Code:

BEFORE
MASS
55
AREA
7626
HEIGHT
2381
12-Aug-2023
22:44



AFTER
MASS
56
AREA
4440
HEIGHT
2580
23-Aug-2023
11:12

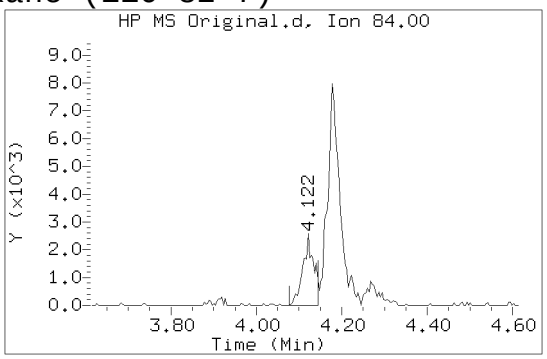


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

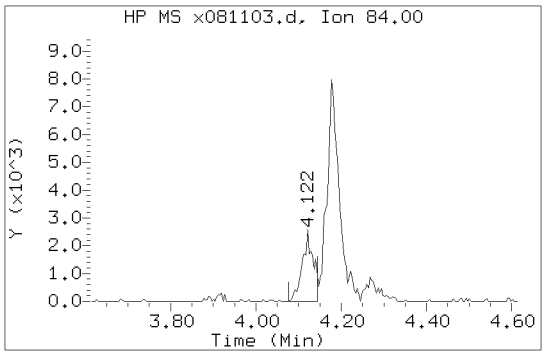
Cyclohexane (110-82-7)

Reason Code:

BEFORE
MASS
83
AREA
4200
HEIGHT
2600
12-Aug-2023
22:44



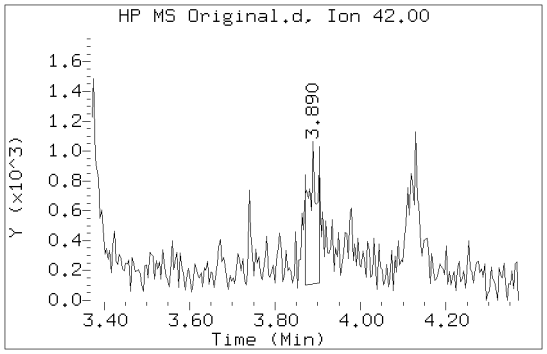
AFTER
MASS
84
AREA
4567
HEIGHT
2590
23-Aug-2023
11:12



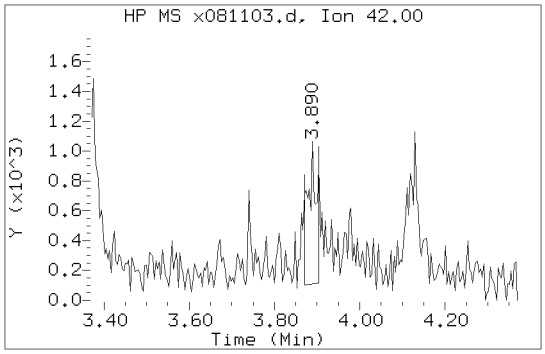
Tetrahydrofuran (109-99-9)

Reason Code:

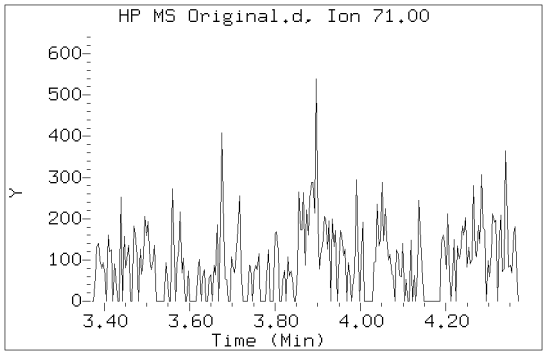
BEFORE
MASS
43
AREA
3113
HEIGHT
2865
12-Aug-2023
22:44



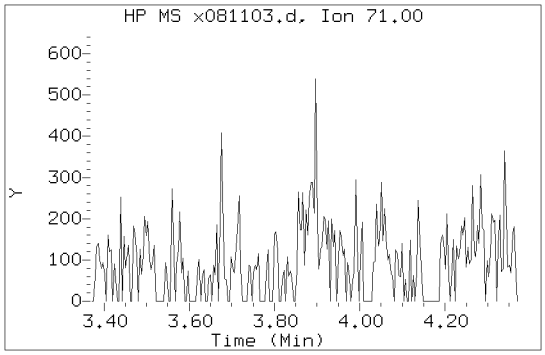
AFTER
MASS
42
AREA
1419
HEIGHT
954
23-Aug-2023
11:12



BEFORE
MASS
74
AREA
1029
HEIGHT
883
12-Aug-2023
22:44



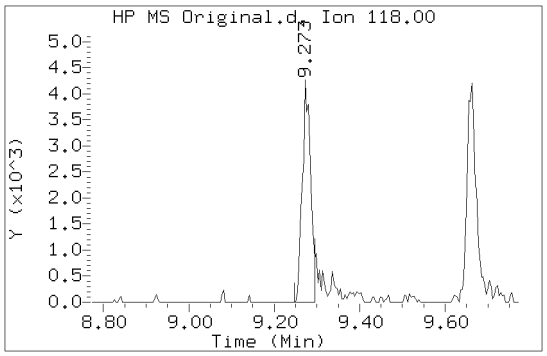
AFTER
MASS
71
AREA
0
HEIGHT
0
23-Aug-2023
11:12



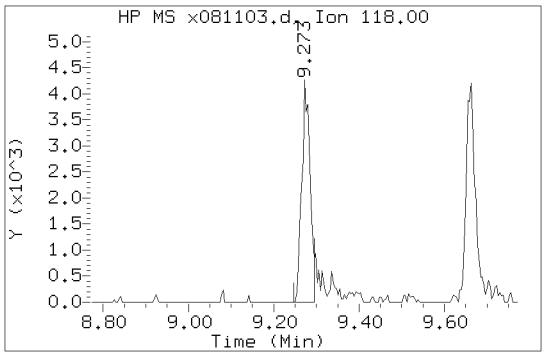
alpha-Methylstyrene (98-83-9)

Reason Code:

BEFORE
MASS
59
AREA
9824
HEIGHT
5748
12-Aug-2023
22:44



AFTER
MASS
118
AREA
5954
HEIGHT
4268
23-Aug-2023
11:12

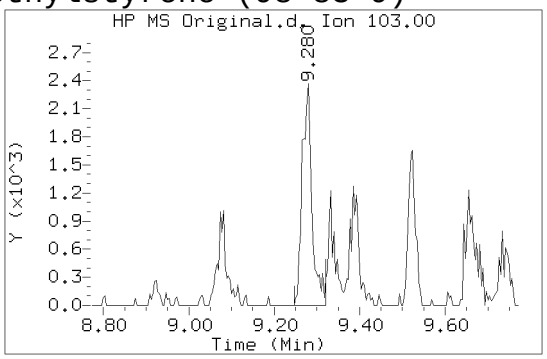


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InstruID : voa6.i
LabSampID : VSTD000.5

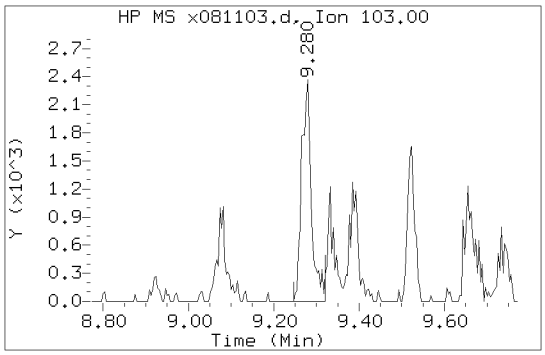
alpha-Methylstyrene (98-83-9)

Reason Code:

BEFORE
MASS
41
AREA
2907
HEIGHT
1883
12-Aug-2023
22:44



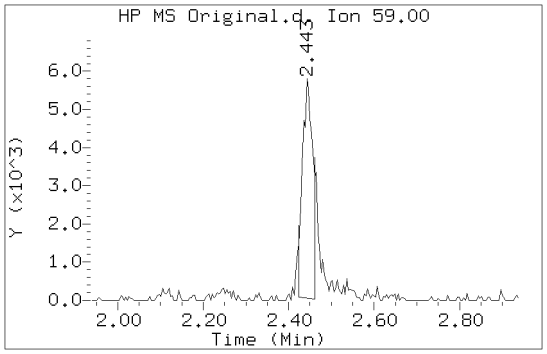
AFTER
MASS
103
AREA
3860
HEIGHT
2367
23-Aug-2023
11:12



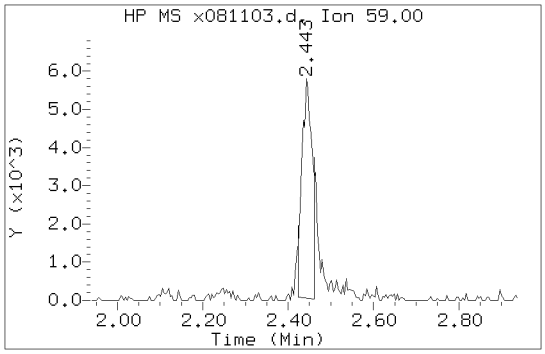
Tert-butyl alcohol (75-65-0)

Reason Code:

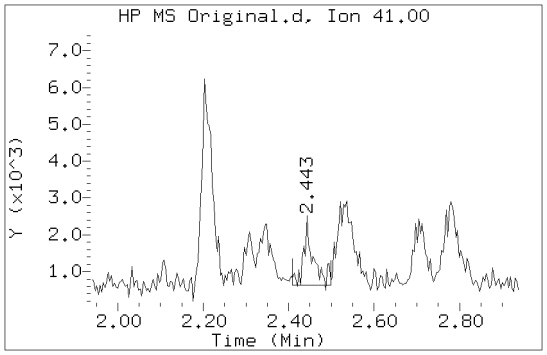
BEFORE
MASS
45
AREA
5543
HEIGHT
4320
12-Aug-2023
22:44



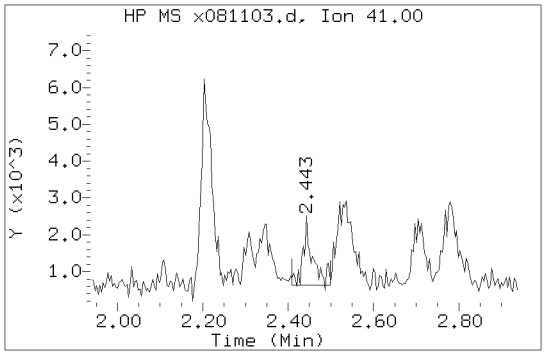
AFTER
MASS
59
AREA
9824
HEIGHT
5748
23-Aug-2023
11:12



BEFORE
MASS
59
AREA
626
HEIGHT
320
12-Aug-2023
22:44



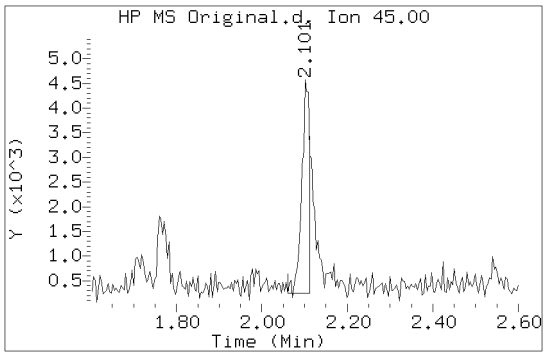
AFTER
MASS
41
AREA
2907
HEIGHT
1883
23-Aug-2023
11:12



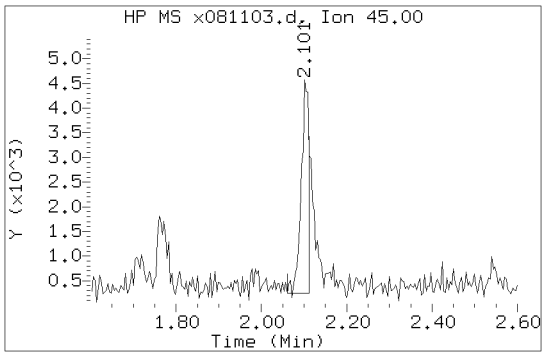
Isopropyl alcohol (67-63-0)

Reason Code:

BEFORE
MASS
45
AREA
12268
HEIGHT
4726
12-Aug-2023
22:44



AFTER
MASS
45
AREA
5543
HEIGHT
4320
23-Aug-2023
11:12



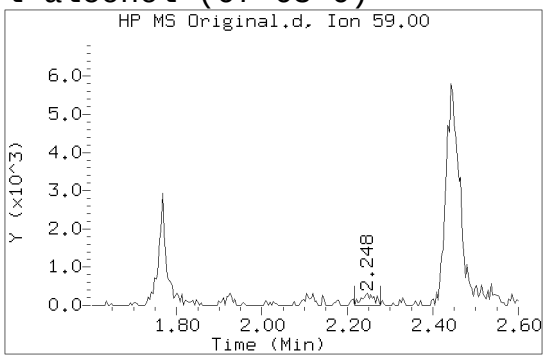
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Isopropyl alcohol (67-63-0)

Reason Code:

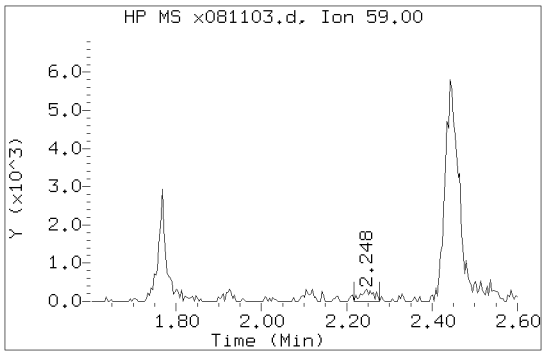
BEFORE

MASS
59
AREA
1145
HEIGHT
874
12-Aug-2023
22:44



AFTER

MASS
59
AREA
626
HEIGHT
320
23-Aug-2023
11:12

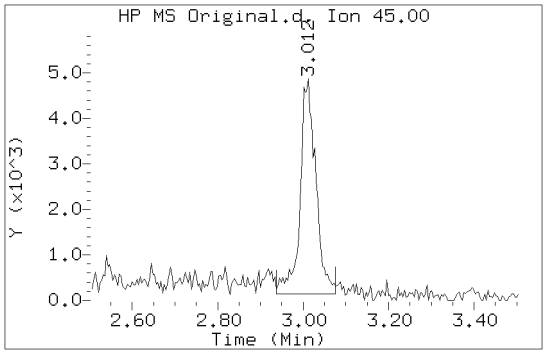


Diisopropyl ether (108-20-3)

Reason Code:

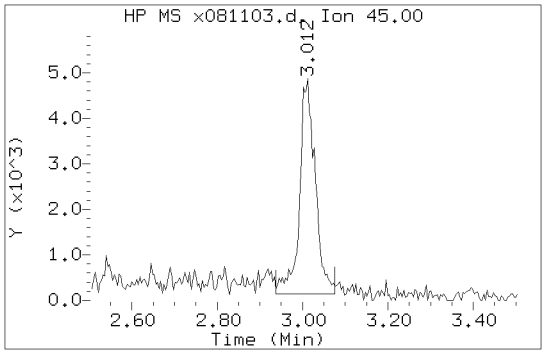
BEFORE

MASS
105
AREA
12507
HEIGHT
8313
12-Aug-2023
22:44



AFTER

MASS
45
AREA
12268
HEIGHT
4726
23-Aug-2023
11:12

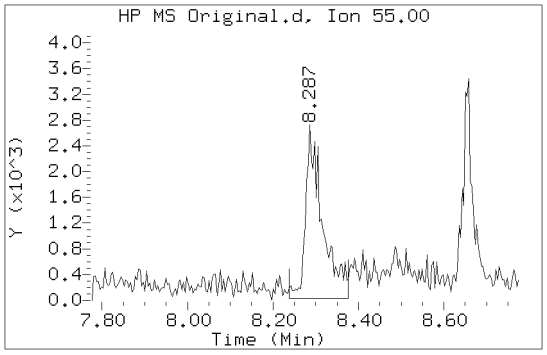


Butyl acrylate (141-32-2)

Reason Code:

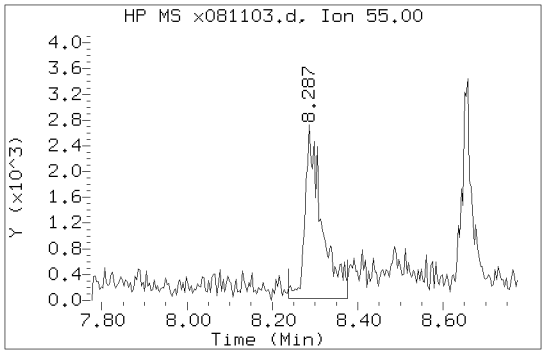
BEFORE

MASS
44
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER

MASS
55
AREA
7408
HEIGHT
2692
23-Aug-2023
11:12

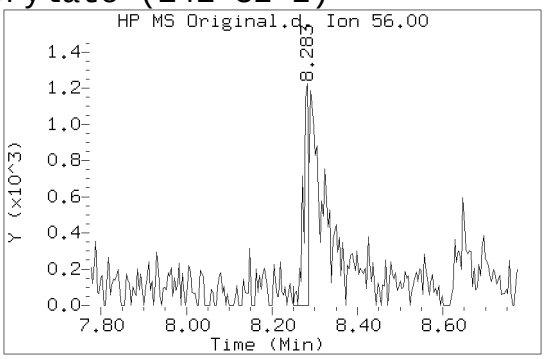


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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

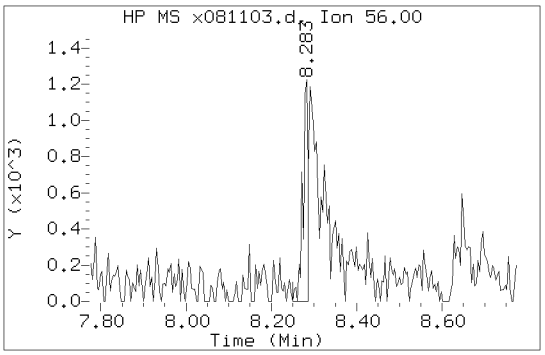
Butyl acrylate (141-32-2)

Reason Code:

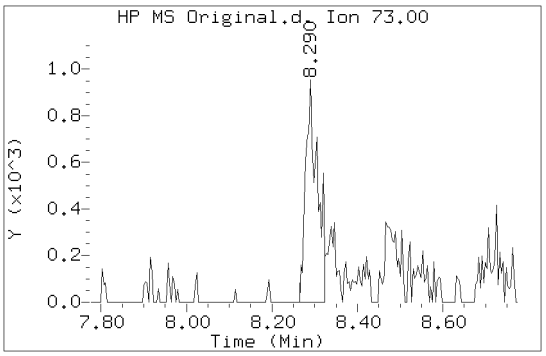
BEFORE
MASS
43
AREA
0
HEIGHT
0
12-Aug-2023
22:44



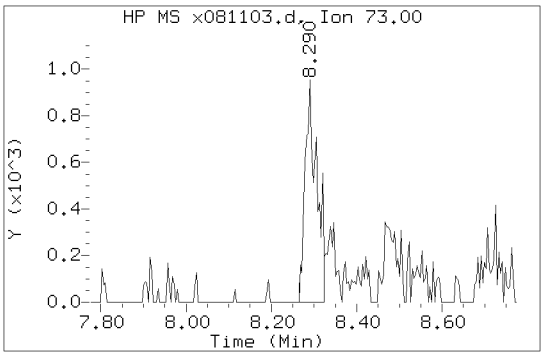
AFTER
MASS
56
AREA
1036
HEIGHT
1225
23-Aug-2023
11:12



BEFORE
MASS
42
AREA
0
HEIGHT
0
12-Aug-2023
22:44



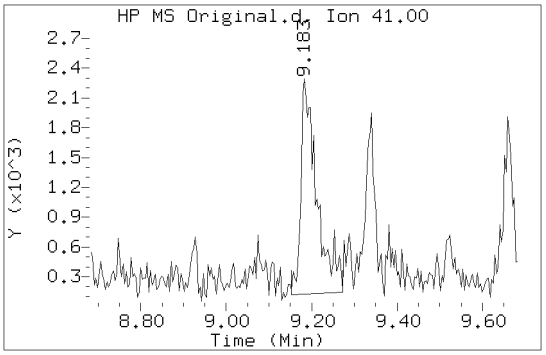
AFTER
MASS
73
AREA
1810
HEIGHT
954
23-Aug-2023
11:12



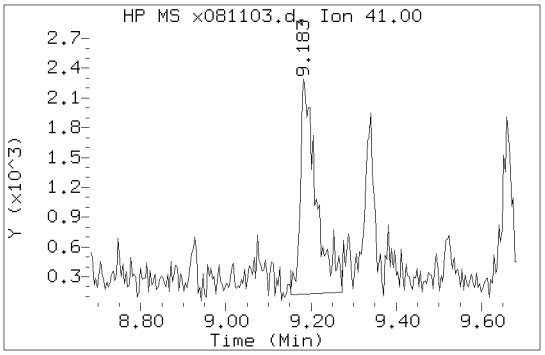
Butyl methacrylate (97-88-1)

Reason Code:

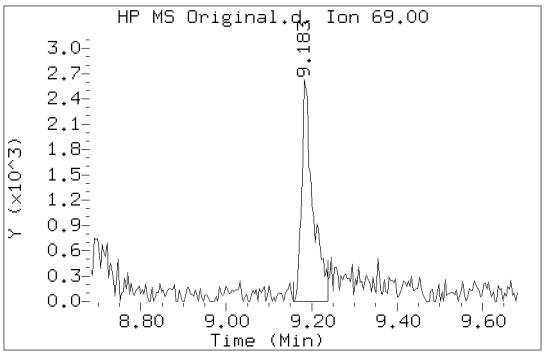
BEFORE
MASS
94
AREA
5435
HEIGHT
4927
12-Aug-2023
22:44



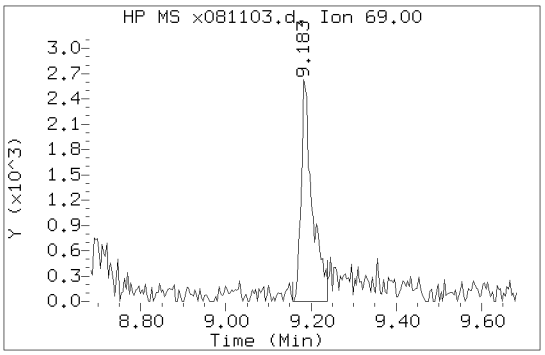
AFTER
MASS
41
AREA
5695
HEIGHT
2167
23-Aug-2023
11:12



BEFORE
MASS
79
AREA
2634
HEIGHT
1651
12-Aug-2023
22:44



AFTER
MASS
69
AREA
4890
HEIGHT
2628
23-Aug-2023
11:12



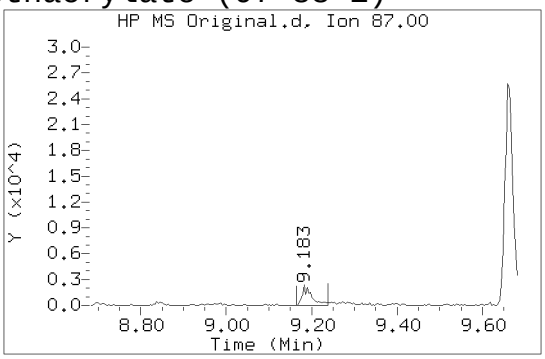
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Butyl methacrylate (97-88-1)

Reason Code:

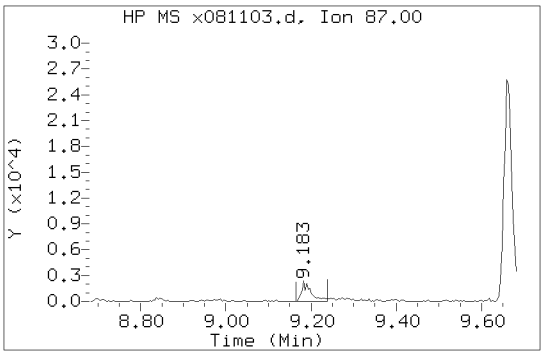
BEFORE

MASS
45
AREA
3216
HEIGHT
1576
12-Aug-2023
22:44



AFTER

MASS
87
AREA
3614
HEIGHT
2362
23-Aug-2023
11:12

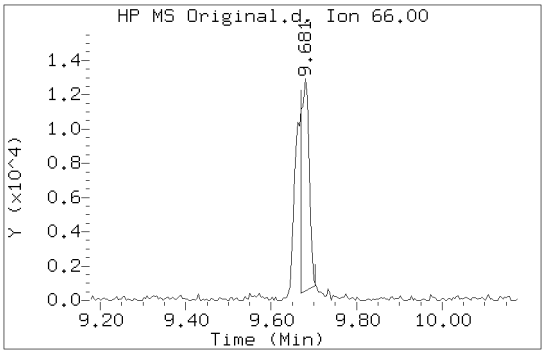


Dicyclopentadiene (77-73-6)

Reason Code:

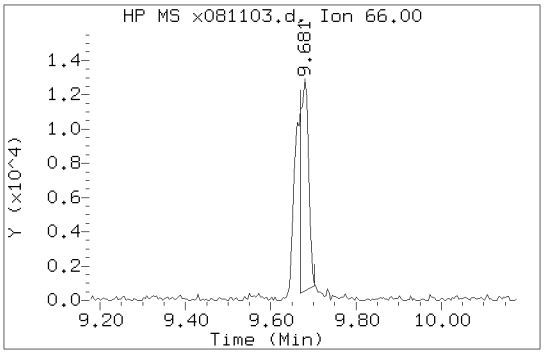
BEFORE

MASS
41
AREA
444
HEIGHT
549
12-Aug-2023
22:44



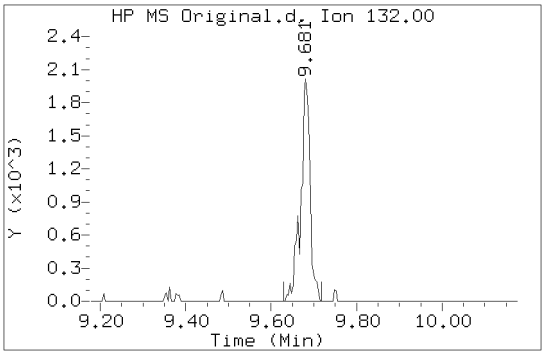
AFTER

MASS
66
AREA
16221
HEIGHT
12389
23-Aug-2023
11:12



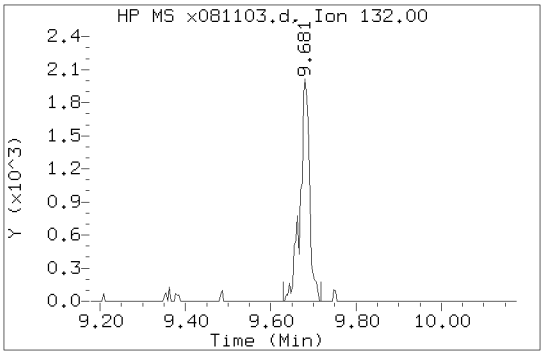
BEFORE

MASS
56
AREA
0
HEIGHT
0
12-Aug-2023
22:44



AFTER

MASS
132
AREA
3184
HEIGHT
2016
23-Aug-2023
11:12

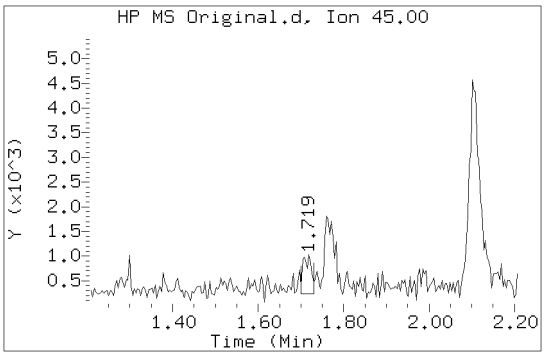


Ethanol (64-17-5)

Reason Code:

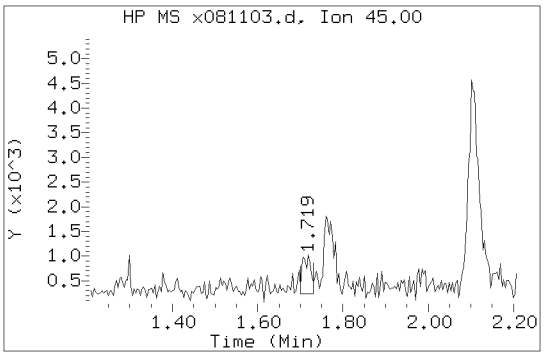
BEFORE

MASS
113
AREA
4322
HEIGHT
2075
12-Aug-2023
22:44



AFTER

MASS
45
AREA
1086
HEIGHT
790
23-Aug-2023
11:12



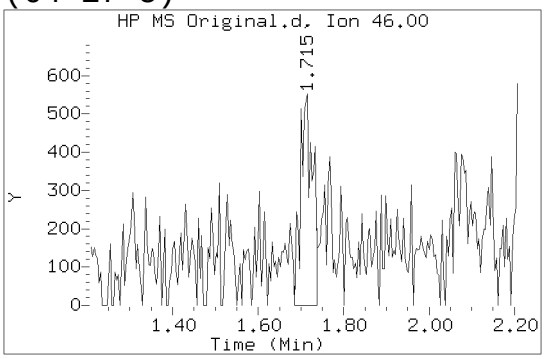
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Inj Date : 11-AUG-2023 12:14
InstruID : voa6.i
LabSampID : VSTD000.5

Ethanol (64-17-5)

Reason Code:

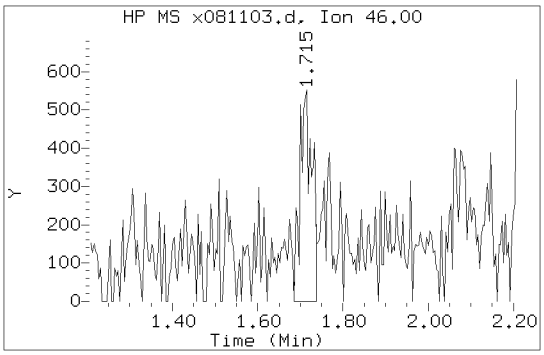
BEFORE

MASS
111
AREA
4651
HEIGHT
1971
12-Aug-2023
22:44



AFTER

MASS
46
AREA
1108
HEIGHT
552
23-Aug-2023
11:12



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081104.D Page 1
Report Date: 23-Aug-2023 11:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081104.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 11-AUG-2023 12:35
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 12:35 Cal File: X081104.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	588670	50.0000	
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	4328	1.00000	1.45
3 Chloromethane	50	1.085	1.085	(0.260)	6181	1.00000	1.07
4 Propionitrile	54	3.694	3.694	(0.883)	8585	10.0000	10.47(aM)
5 Vinyl Chloride	62	1.149	1.149	(0.275)	6615	1.00000	0.93
6 Bromomethane	94	1.347	1.347	(0.322)	4430	1.00000	1.16(M)
7 Chloroethane	64	1.411	1.411	(0.338)	5096	1.00000	1.10
8 Trichlorofluoromethane	101	1.569	1.569	(0.375)	9051	1.00000	0.90(M)
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	5761	1.00000	1.01
12 Isobutyl Alcohol	43	4.702	4.702	(1.125)	17428	20.0000	18.88(aM)
13 Acetonitrile	39	2.206	2.206	(0.528)	9985	10.0000	10.99(a)
14 Allyl Chloride	41	2.210	2.210	(0.528)	19393	1.00000	1.08(a)
15 Iodomethane	142	2.037	2.037	(0.487)	5195	2.00000	6.31
16 Acrylonitrile	53	2.543	2.543	(0.608)	5718	2.00000	2.08(M)
17 Methylene Chloride	84	2.303	2.303	(0.551)	8402	1.00000	1.17(M)
18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	22118	1.00000	1.09
19 Carbon Disulfide	76	2.078	2.078	(0.497)	33989	2.00000	2.01
20 trans-1,2-Dichloroethene	96	2.539	2.539	(0.607)	7259	1.00000	1.09
21 Vinyl Acetate	43	3.016	3.016	(0.721)	39484	2.00000	2.02
22 1,1-Dichloroethane	63	2.929	2.929	(0.701)	14531	1.00000	1.16(M)
23 Chloroprene	53	1.778	1.778	(0.425)	2637	1.00000	1.05(aM)

24 2-Butanone	43	3.675	3.675 (0.879)	4169	2.00000	1.91(MH)
25 Methacrylonitrile	41	3.866	3.866 (0.925)	5673	1.00000	0.96(aM)

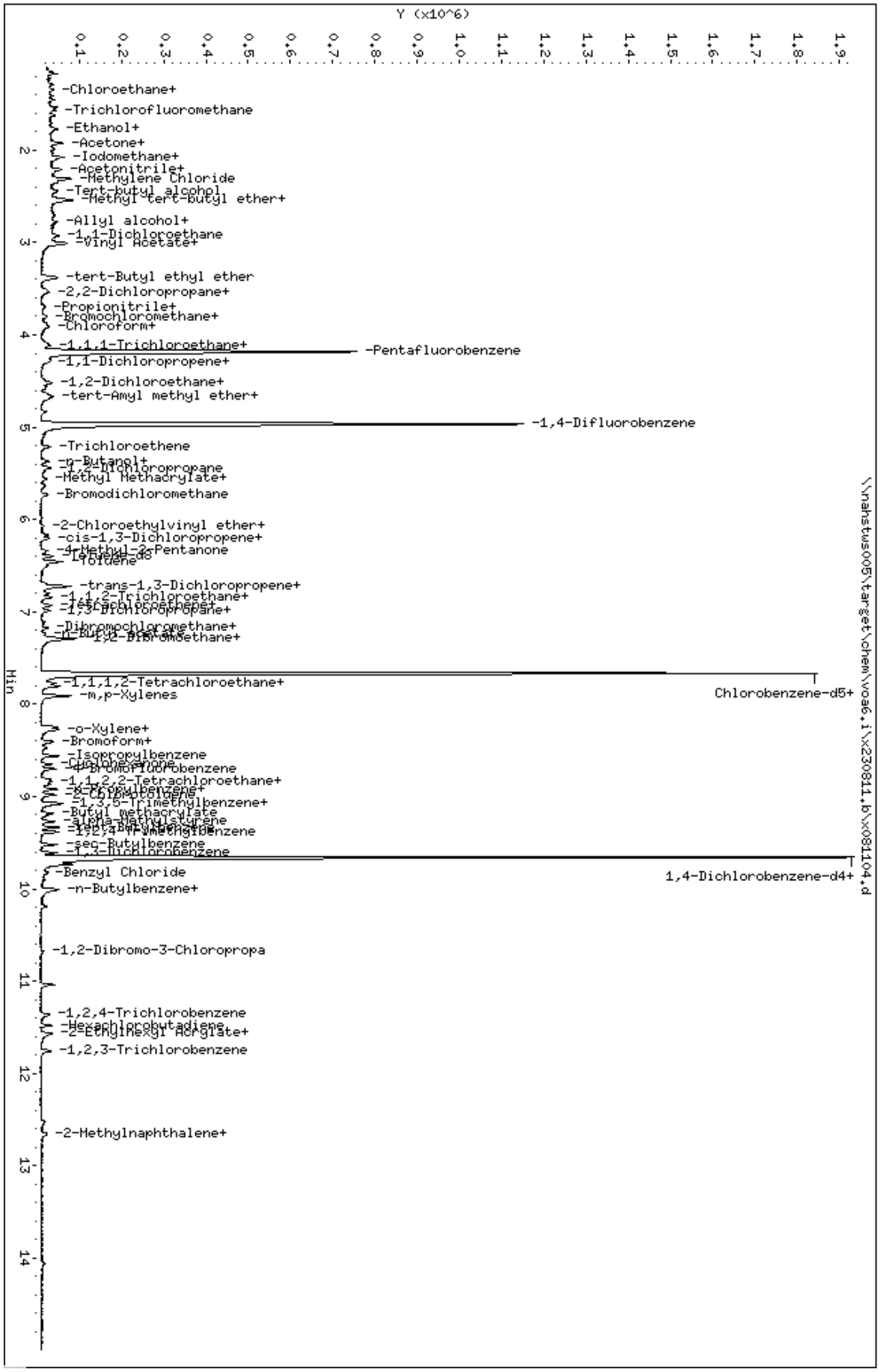
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	26 2,2-Dichloropropane	77	3.522	3.522	(0.842)	9399	1.00000	1.10
	27 cis-1,2-Dichloroethene	96	3.544	3.544	(0.848)	6391	1.00000	1.00
	28 Chloroform	83	3.915	3.915	(0.936)	11723	1.00000	1.07
	29 Bromochloromethane	128	3.814	3.814	(0.912)	4447	1.00000	1.23
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	7915	1.00000	0.90
	32 1,1-Dichloropropene	75	4.298	4.298	(0.866)	6485	1.00000	0.89(MH)
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	9628	1.00000	1.10
	34 Carbon Tetrachloride	117	4.268	4.268	(0.860)	7329	1.00000	0.96(H)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	916625	50.0000	
	37 Benzene	78	4.522	4.522	(0.911)	23319	1.00000	1.03
	38 Trichloroethene	130	5.216	5.216	(1.051)	6331	1.00000	0.97(a)
	39 Bromodichloromethane	83	5.730	5.730	(1.154)	9159	1.00000	1.08(aM)
	40 Methyl Methacrylate	41	5.636	5.636	(1.348)	5530	1.00000	1.02(a)
	41 2-Chloroethylvinyl ether	63	6.071	6.071	(1.223)	4418	2.00000	2.05(a)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	6642	1.00000	1.04(aM)
	43 2-Nitropropane	43	5.981	5.981	(1.430)	2423	1.00000	1.12(a)
	44 Dibromomethane	93	5.557	5.557	(1.119)	5180	1.00000	1.19(a)
	45 4-Methyl-2-Pentanone	43	6.341	6.341	(0.827)	13000	2.00000	2.05(aM)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	9439	1.00000	0.98(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	882965	50.0000	
$	48 Toluene-d8	98	6.397	6.397	(0.834)	20483	1.00000	0.98(aM)
	49 Ethyl Methacrylate	69	6.794	6.794	(1.368)	8710	1.00000	1.03(aH)
	50 Toluene	91	6.453	6.453	(0.842)	25633	1.00000	1.04(a)
	51 trans-1,3-Dichloropropene	75	6.700	6.700	(1.350)	7645	1.00000	0.94(a)
	52 2-Hexanone	43	7.109	7.109	(0.927)	8658	2.00000	2.03(aM)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	4999	1.00000	1.01(a)
	54 1,3-Dichloropropane	76	6.989	6.989	(0.912)	11149	1.00000	1.11(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	7075	1.00000	0.99(a)
	56 Tetrachloroethene	164	6.933	6.933	(0.904)	4911	1.00000	0.96(a)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	5993	1.00000	1.00(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	5712	1.00000	1.07(aMH)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	17172	1.00000	1.01(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	6256	1.00000	0.95(a)
	61 Ethylbenzene	106	7.806	7.806	(1.018)	7990	1.00000	0.95(a)
	62 m,p-Xylenes	106	7.911	7.911	(1.032)	20041	2.00000	1.87(a)
	63 o-Xylene	106	8.249	8.249	(1.076)	11068	1.00000	1.04(a)
	64 Styrene	104	8.275	8.275	(1.079)	15203	1.00000	0.86(a)
	66 Bromoform	173	8.414	8.414	(1.097)	4246	1.00000	0.88(Ta)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	23483	1.00000	0.89(a)
	68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	8236	1.00000	1.06(a)
$	69 4-Bromofluorobenzene	95	8.702	8.702	(1.135)	9648	1.00000	1.38(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	476655	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	5998	1.00000	1.05(a)
	72 trans-1,4-Dichloro-2-butene	53	8.905	8.905	(1.161)	2338	1.00000	1.05(aMH)
	73 n-Propylbenzene	91	8.920	8.920	(0.923)	25092	1.00000	0.89(a)
	74 Bromobenzene	156	8.822	8.822	(0.913)	7675	1.00000	1.00(a)
	75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	19765	1.00000	0.95(a)
	76 2-Chlorotoluene	91	8.980	8.980	(0.929)	19685	1.00000	1.09(a)
	77 4-Chlorotoluene	91	9.085	9.085	(0.940)	21461	1.00000	1.03(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	16538	1.00000	0.93(a)
	79 1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	21634	1.00000	1.01(a)
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	22253	1.00000	0.91(a)

82 p-Isopropyltoluene	119	9.651	9.651 (0.999)	18770	1.00000	0.85(a)
83 1,3-Dichlorobenzene	146	9.609	9.609 (0.995)	13626	1.00000	1.00(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	14768	1.00000	1.01(a)
86	Benzyl Chloride	91	9.827	9.827	(1.282)	9809	1.00000	0.77(aM)
87	n-Butylbenzene	91	10.007	10.007	(1.036)	15267	1.00000	2.70(a)
88	1,2-Dichlorobenzene	146	10.003	10.003	(1.035)	14337	1.00000	1.04(a)
89	1,2-Dibromo-3-Chloropropane	155	10.681	10.681	(1.106)	1274	1.00000	0.97(aM)
90	1,2,4-Trichlorobenzene	180	11.360	11.360	(1.176)	8955	1.00000	0.98(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	4132	1.00000	0.61(aM)
92	Naphthalene	128	11.574	11.574	(1.198)	23210	1.00000	1.02(aM)
93	1,2,3-Trichlorobenzene	180	11.761	11.761	(1.217)	9119	1.00000	1.03(a)
146	Methyl acetate	43	2.247	2.247	(0.537)	5952	1.00000	1.12(aM)
138	Freon TF	101	1.921	1.921	(0.459)	4459	1.00000	1.92(a)
141	Cyclohexane	56	4.114	4.114	(0.984)	5861	1.00000	2.55(aH)
142	Tetrahydrofuran	42	3.870	3.870	(0.926)	2426	2.00000	2.11(a)
147	Methylcyclohexane	55	5.373	5.373	(1.082)	13003	1.00000	0.94(aM)
135	1,4-Dioxane	88	5.621	5.621	(1.344)	1553	20.0000	20.75(M)
132	n-Butanol	56	5.370	5.370	(1.284)	2659	20.0000	83.82(a)
131	Methyl Acrylate	55	3.776	3.776	(0.903)	6078	1.00000	1.04(aM)
133	Ethyl Acrylate	55	5.373	5.373	(1.285)	12771	1.00000	0.91(aM)
136	n-Hexane	57	2.776	2.776	(0.664)	6841	1.00000	0.37(aM)
139	Diethyl ether	59	1.771	1.771	(0.424)	5859	1.00000	1.12(aM)
148	Tert-butyl alcohol	59	2.438	2.438	(0.583)	18788	20.0000	13.85
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	10285	20.0000	12.31
156	Diisopropyl ether	45	3.004	3.004	(0.719)	22432	1.00000	1.05(Ta)
166	1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	24047	1.00000	1.08(a)
167	Ethanol	45	1.707	1.707	(0.408)	1697	20.0000	(a)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	25478	20.0000	30.54
174	tert-Amyl methyl ether	73	4.672	4.672	(1.117)	25771	1.00000	1.04(a)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.808)	22019	1.00000	1.12(aM)
176	tert-Amyl alcohol	59	4.639	4.639	(1.109)	11529	20.0000	19.64
151	4-Methyl-2-pentanol	45	6.723	6.723	(1.354)	55294	20.0000	30.39
180	1-Methylnaphthalene	142	12.661	12.661	(1.310)	8605	1.00000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	5912	1.00000	0.97(a)
152	Amyl alcohol	42	6.963	6.963	(0.908)	2436	20.0000	33.32
159	Propylene oxide	43	1.808	1.808	(0.433)	3539	2.00000	3.72(a)
161	3-Methyl-1-butanol	55	6.944	6.944	(0.906)	2577	20.0000	16.87
162	Butyl acrylate	55	8.275	8.275	(1.079)	14061	1.00000	0.97(aM)
163	Butyl methacrylate	41	9.182	9.182	(0.950)	9554	1.00000	0.98(a)
164	Dicyclopentadiene	66	9.677	9.677	(1.002)	27109	1.00000	0.99(aM)
182	Epichlorohydrin	57	6.112	6.112	(1.231)	2242	4.00000	3.99(aM)
M 94	1,2-Dichloroethylene (total)	96				13650	2.00000	2.10(a)
M 95	Xylenes (total)	106				31109	3.00000	2.92(a)
130	Ethyl Acetate	43	3.675	3.675	(0.879)	6893	1.00000	1.02(aM)
134	Cyclohexanone	55	8.653	8.653	(0.896)	7180	20.0000	23.65(aM)
185	Isoprene	39	1.778	1.778	(0.425)	1665	1.00000	0.67(a)
188	Isopropyl acetate	43	4.702	4.702	(0.947)	17384	1.00000	0.93(aM)
189	n-Butyl acetate	43	7.236	7.236	(0.944)	9353	1.00000	0.92(aM)
150	Allyl alcohol	57	2.776	2.776	(0.664)	4388	20.0000	(a)
194	Acetaldehyde	44	1.212	1.212	(0.290)	4717	4.00000	(aM)
195	Methyl Amyl Ketone	43	8.402	8.402	(1.096)	17065	1.00000	1.11(a)
200	Dimethyl Disulfide	94	6.202	6.202	(0.809)	10240	1.00000	0.88(aM)
202	Isobutylene	41	1.250	1.250	(0.299)	886	1.00000	1.14(aM)
205	2-Ethylhexyl Acrylate	55	11.566	11.566	(1.197)	7592	1.00000	0.77(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
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Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

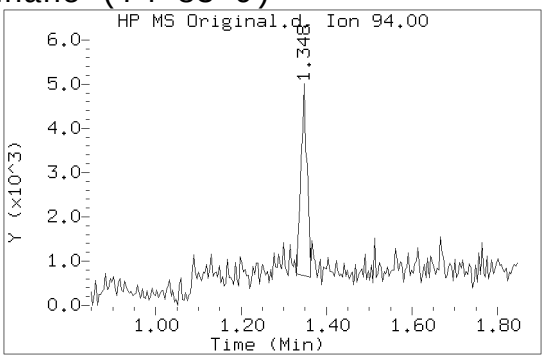
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InstruID : voa6.i
LabSampID : VSTD001

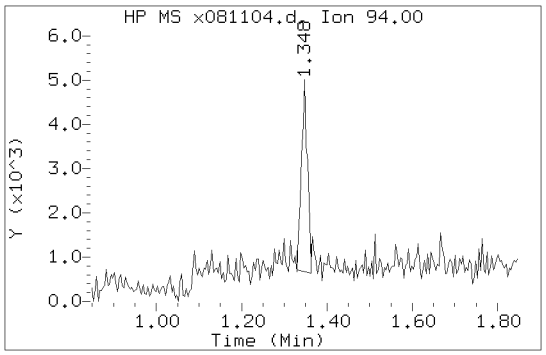
Bromomethane (74-83-9)

Reason Code:

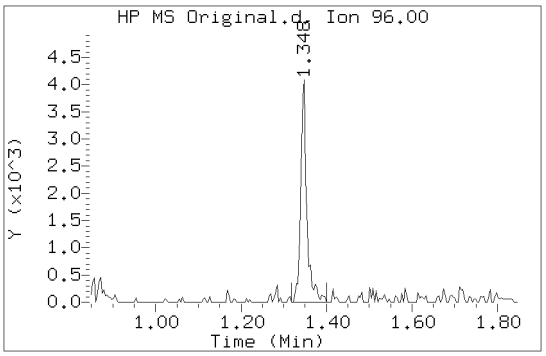
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22:50



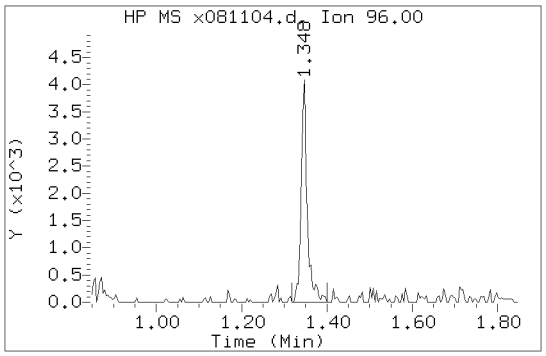
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11:12



BEFORE
MASS
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AREA
2437
HEIGHT
2554
12-Aug-2023
22:50



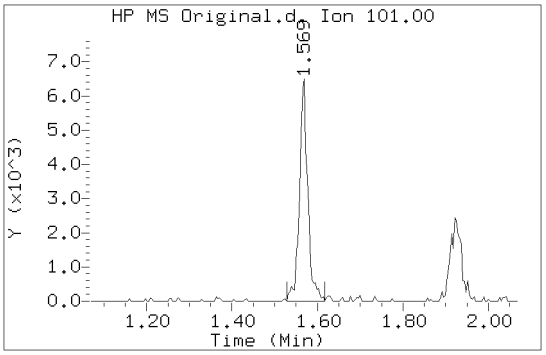
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AREA
4241
HEIGHT
4086
23-Aug-2023
11:12



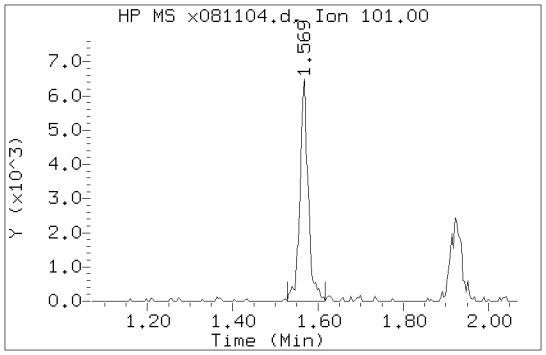
Trichlorofluoromethane (75-69-4)

Reason Code:

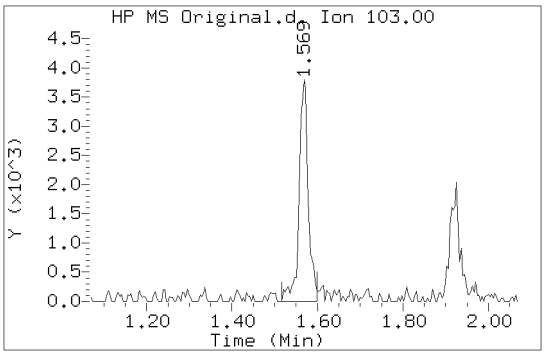
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AREA
4430
HEIGHT
4336
12-Aug-2023
22:50



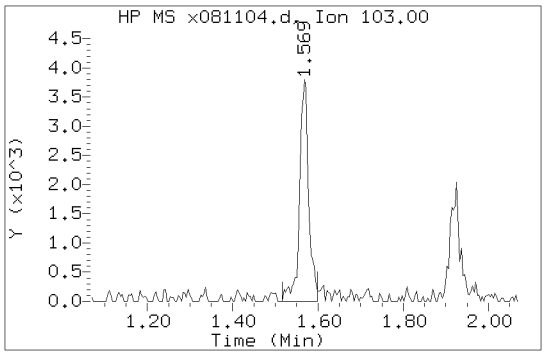
AFTER
MASS
101
AREA
9051
HEIGHT
6498
23-Aug-2023
11:12



BEFORE
MASS
96
AREA
4241
HEIGHT
4086
12-Aug-2023
22:50



AFTER
MASS
103
AREA
5842
HEIGHT
3798
23-Aug-2023
11:12

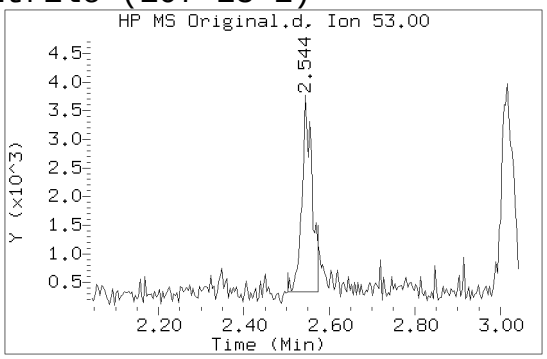


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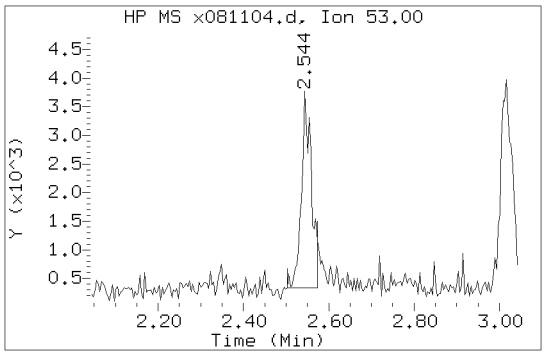
Acrylonitrile (107-13-1)

Reason Code:

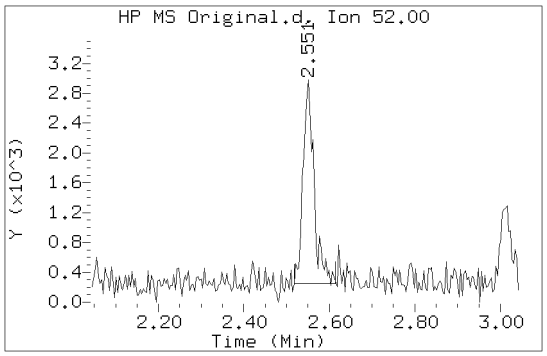
BEFORE
MASS
43
AREA
9915
HEIGHT
6046
12-Aug-2023
22:50



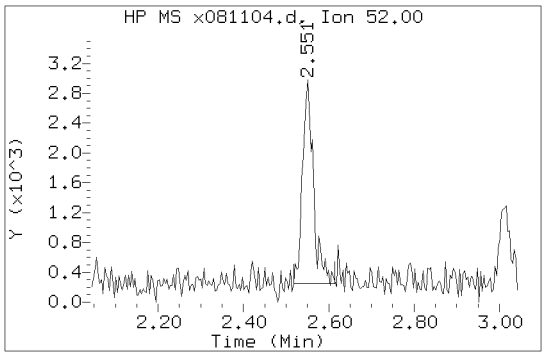
AFTER
MASS
53
AREA
5718
HEIGHT
3442
23-Aug-2023
11:12



BEFORE
MASS
58
AREA
3093
HEIGHT
2028
12-Aug-2023
22:50



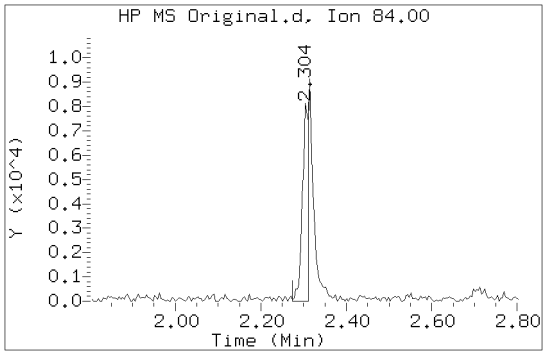
AFTER
MASS
52
AREA
4940
HEIGHT
2727
23-Aug-2023
11:12



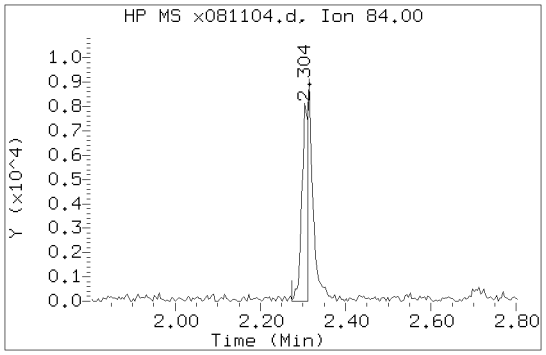
Methylene Chloride (75-09-2)

Reason Code:

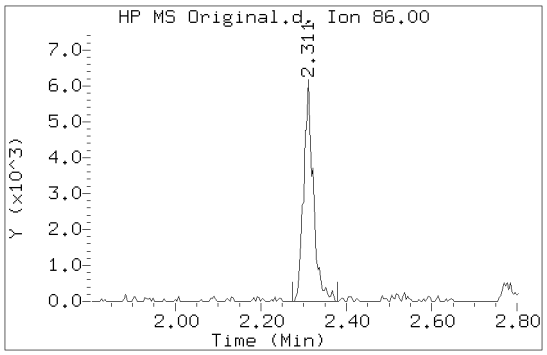
BEFORE
MASS
96
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5761
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3471
12-Aug-2023
22:50



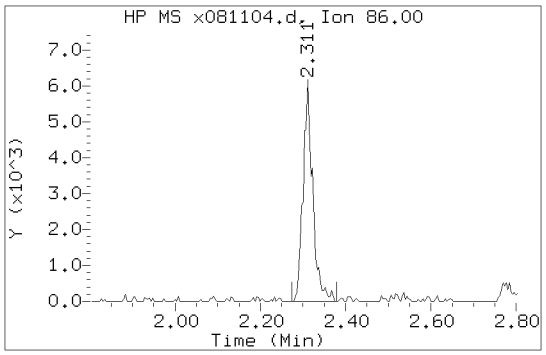
AFTER
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84
AREA
8402
HEIGHT
8122
23-Aug-2023
11:12



BEFORE
MASS
61
AREA
9335
HEIGHT
6208
12-Aug-2023
22:50



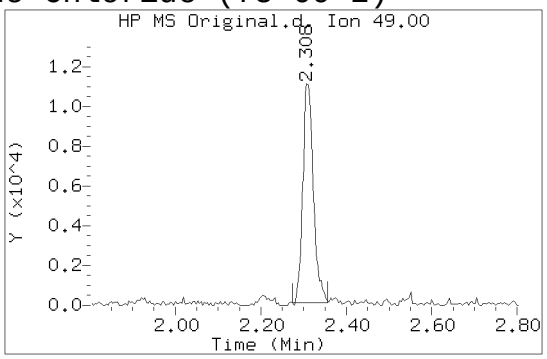
AFTER
MASS
86
AREA
9806
HEIGHT
6172
23-Aug-2023
11:12



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Inj Date : 11-AUG-2023 12:35
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LabSampID : VSTD001

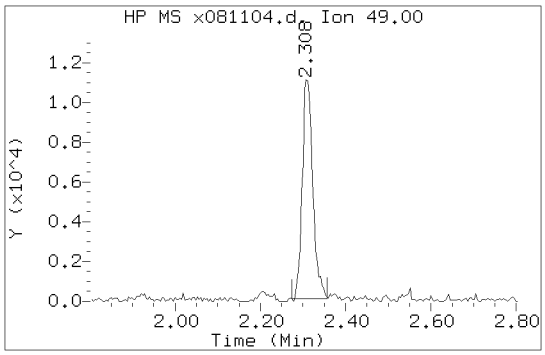
Methylene Chloride (75-09-2)

BEFORE
MASS
63
AREA
3225
HEIGHT
1896
12-Aug-2023
22:50



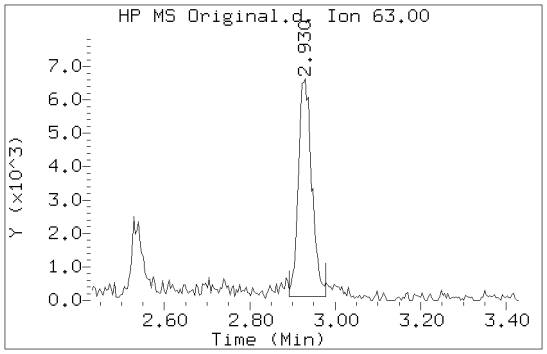
AFTER
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49
AREA
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HEIGHT
11010
23-Aug-2023
11:12

Reason Code:



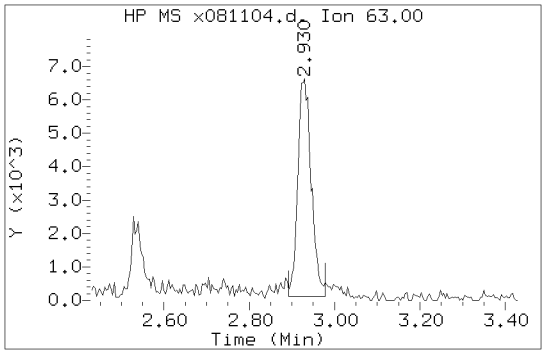
1,1-Dichloroethane (75-34-3)

BEFORE
MASS
73
AREA
22118
HEIGHT
11046
12-Aug-2023
22:50

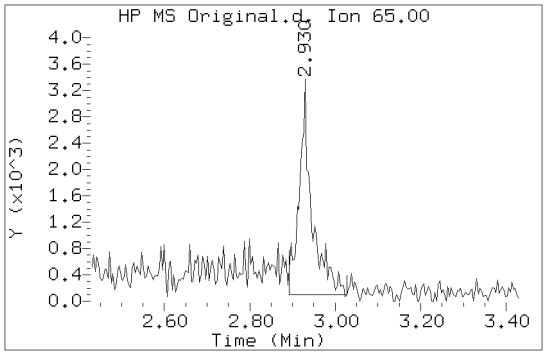


AFTER
MASS
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6510
23-Aug-2023
11:12

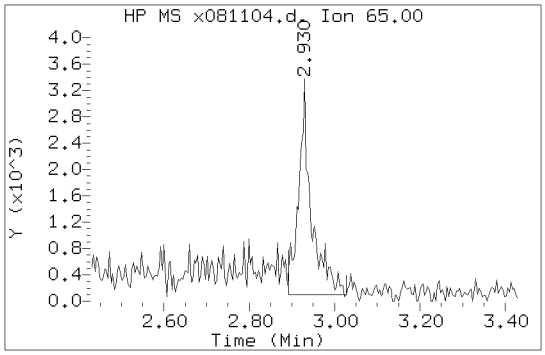
Reason Code:



BEFORE
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57
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12-Aug-2023
22:50

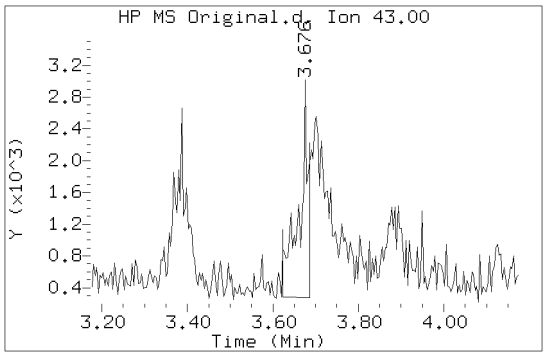


AFTER
MASS
65
AREA
6876
HEIGHT
3277
23-Aug-2023
11:12



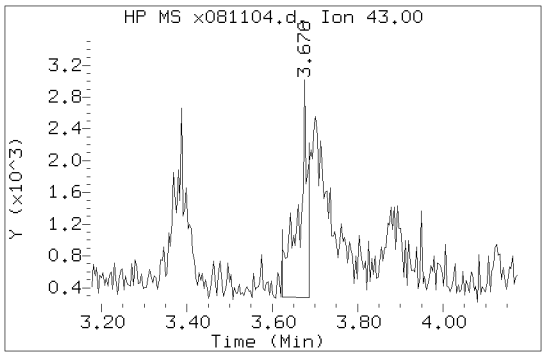
2-Butanone (78-93-3)

BEFORE
MASS
76
AREA
33989
HEIGHT
21317
12-Aug-2023
22:50



AFTER
MASS
43
AREA
4169
HEIGHT
2738
23-Aug-2023
11:12

Reason Code:



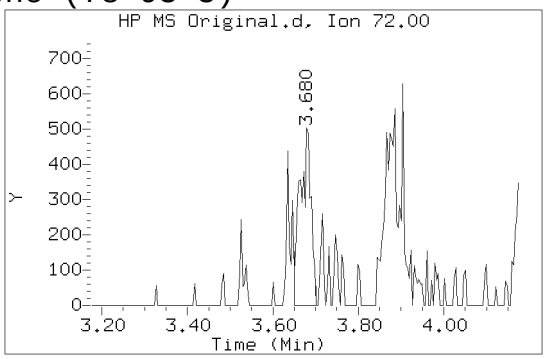
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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

2-Butanone (78-93-3)

Reason Code:

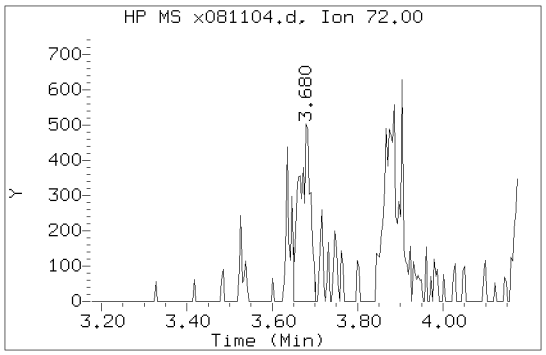
BEFORE

MASS
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HEIGHT
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12-Aug-2023
22:50



AFTER

MASS
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AREA
918
HEIGHT
503
23-Aug-2023
11:12

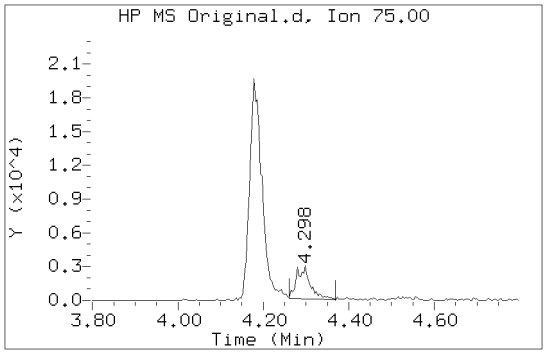


1,1-Dichloropropene (563-58-6)

Reason Code:

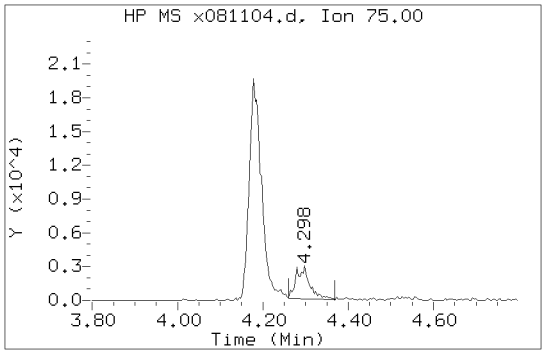
BEFORE

MASS
96
AREA
6391
HEIGHT
3436
12-Aug-2023
22:50



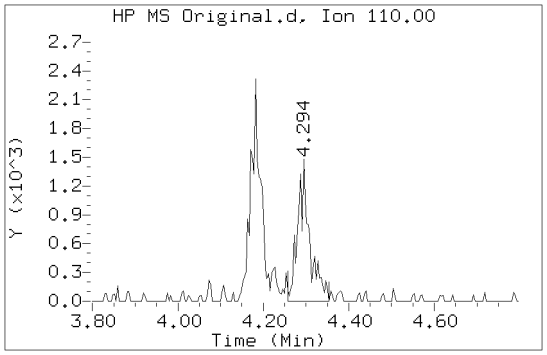
AFTER

MASS
75
AREA
6485
HEIGHT
2955
23-Aug-2023
11:12



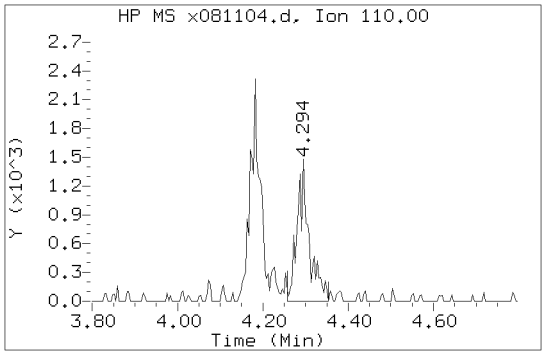
BEFORE

MASS
61
AREA
8504
HEIGHT
3653
12-Aug-2023
22:50



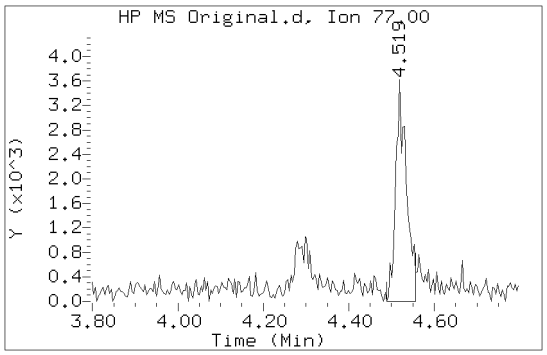
AFTER

MASS
110
AREA
2897
HEIGHT
1478
23-Aug-2023
11:12



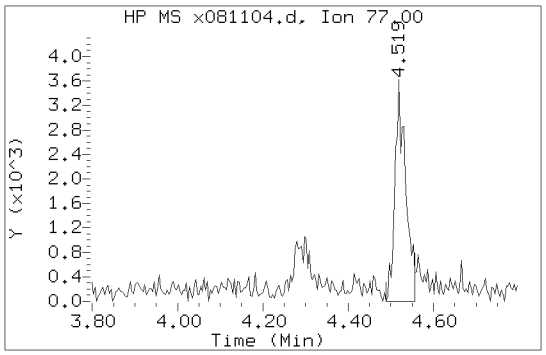
BEFORE

MASS
98
AREA
4326
HEIGHT
2024
12-Aug-2023
22:50



AFTER

MASS
77
AREA
6360
HEIGHT
3621
23-Aug-2023
11:12

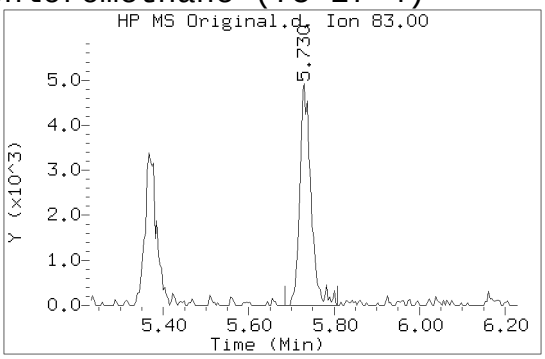


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

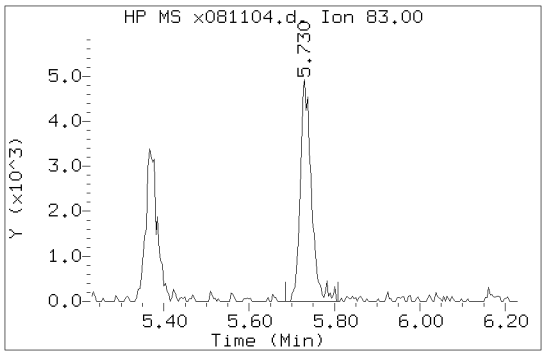
Bromodichloromethane (75-27-4)

Reason Code:

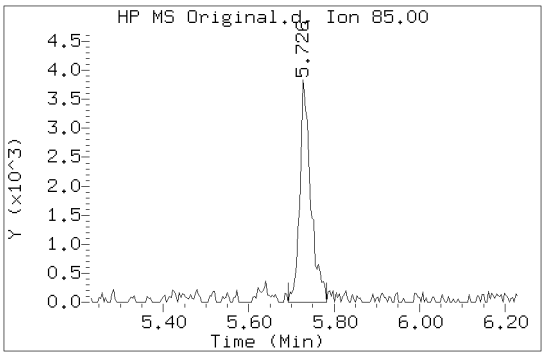
BEFORE
MASS
117
AREA
7329
HEIGHT
3248
12-Aug-2023
22:50



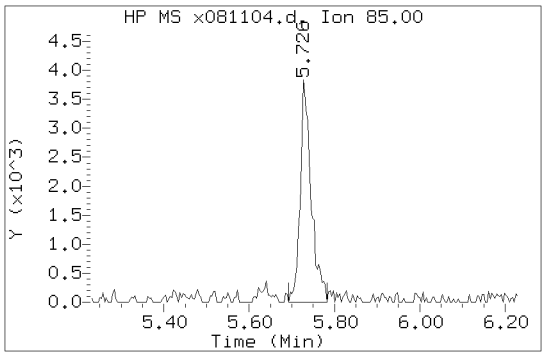
AFTER
MASS
83
AREA
9159
HEIGHT
4921
23-Aug-2023
11:12



BEFORE
MASS
119
AREA
6429
HEIGHT
2759
12-Aug-2023
22:50



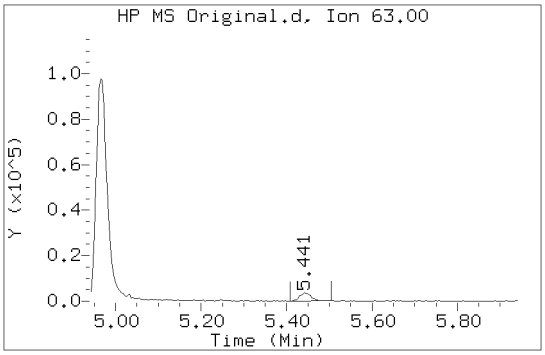
AFTER
MASS
85
AREA
7009
HEIGHT
3834
23-Aug-2023
11:12



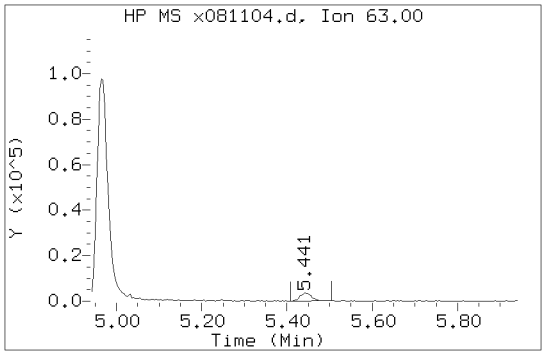
1,2-Dichloropropane (78-87-5)

Reason Code:

BEFORE
MASS
114
AREA
916625
HEIGHT
501315
12-Aug-2023
22:50



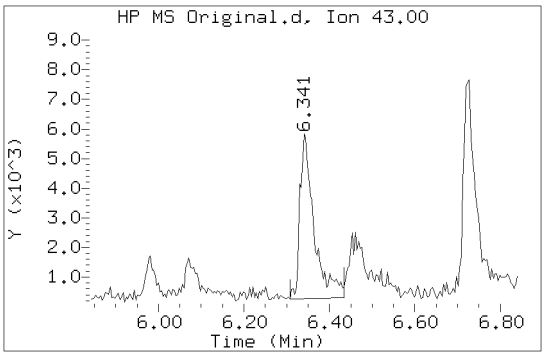
AFTER
MASS
63
AREA
6642
HEIGHT
3674
23-Aug-2023
11:12



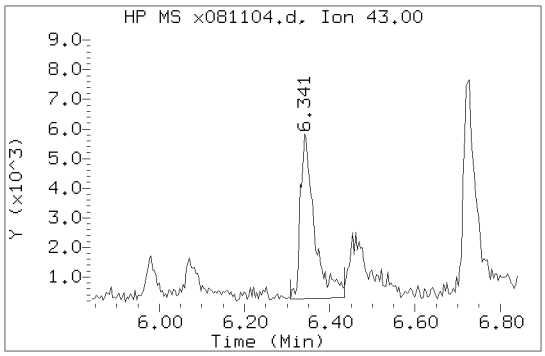
4-Methyl-2-Pentanone (108-10-1)

Reason Code:

BEFORE
MASS
130
AREA
6331
HEIGHT
3663
12-Aug-2023
22:50



AFTER
MASS
43
AREA
13000
HEIGHT
5556
23-Aug-2023
11:12

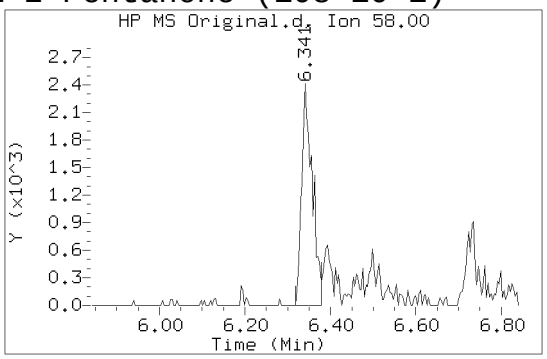


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

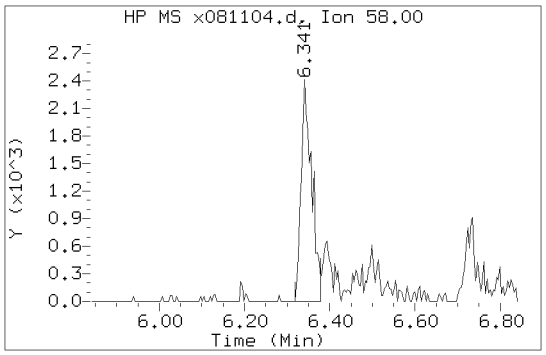
4-Methyl-2-Pentanone (108-10-1)

Reason Code:

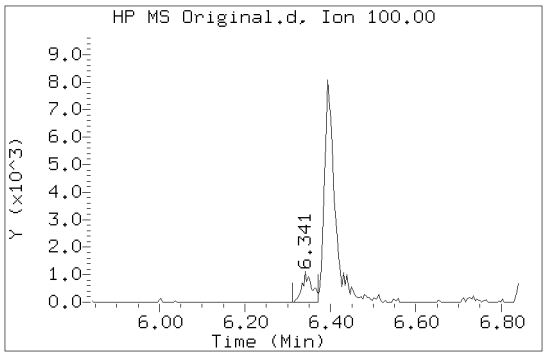
BEFORE
MASS
97
AREA
4440
HEIGHT
2196
12-Aug-2023
22:50



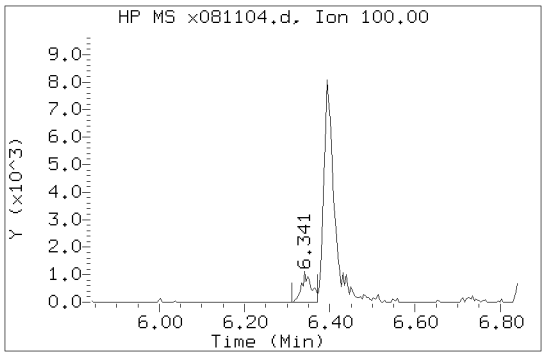
AFTER
MASS
58
AREA
4257
HEIGHT
2414
23-Aug-2023
11:12



BEFORE
MASS
95
AREA
6378
HEIGHT
3813
12-Aug-2023
22:50



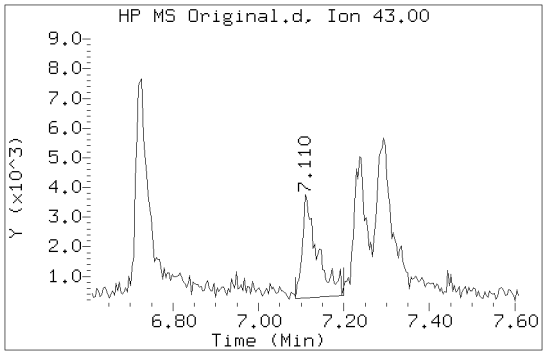
AFTER
MASS
100
AREA
1780
HEIGHT
1123
23-Aug-2023
11:12



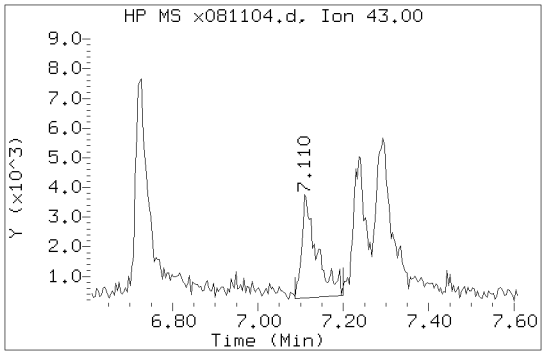
2-Hexanone (591-78-6)

Reason Code:

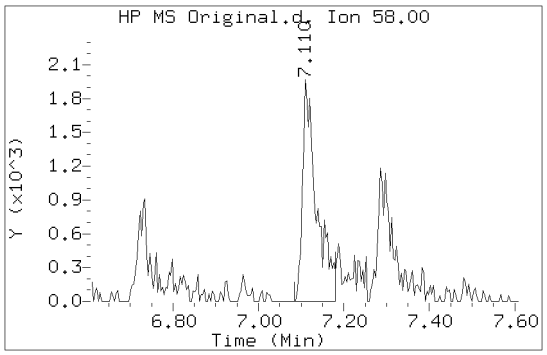
BEFORE
MASS
43
AREA
13000
HEIGHT
5556
12-Aug-2023
22:50



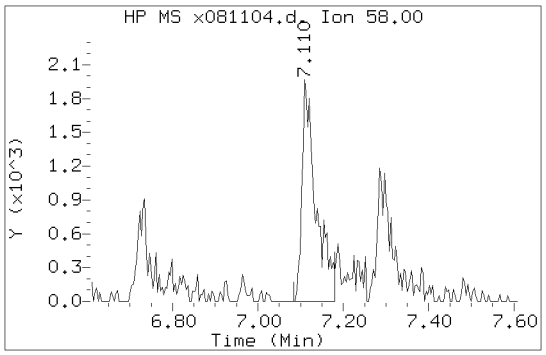
AFTER
MASS
43
AREA
8658
HEIGHT
3477
23-Aug-2023
11:12



BEFORE
MASS
58
AREA
4257
HEIGHT
2414
12-Aug-2023
22:50



AFTER
MASS
58
AREA
4573
HEIGHT
1967
23-Aug-2023
11:12



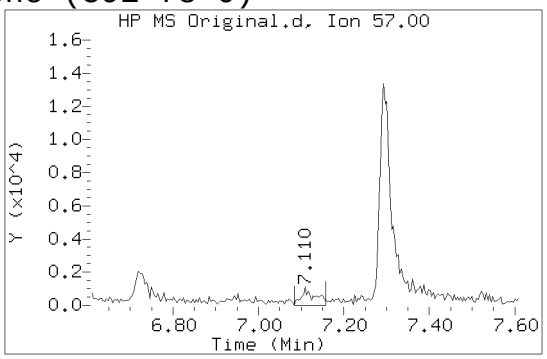
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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

2-Hexanone (591-78-6)

Reason Code:

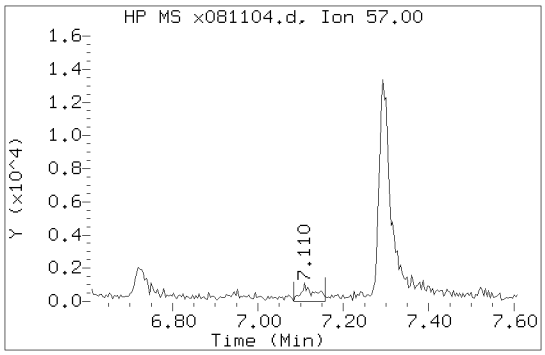
BEFORE

MASS
100
AREA
1780
HEIGHT
1123
12-Aug-2023
22:50



AFTER

MASS
57
AREA
2385
HEIGHT
1109
23-Aug-2023
11:12

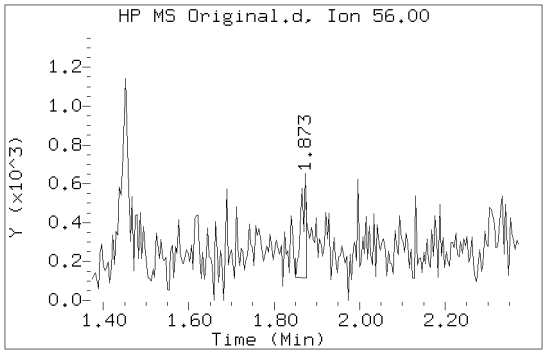


Acrolein (107-02-8)

Reason Code:

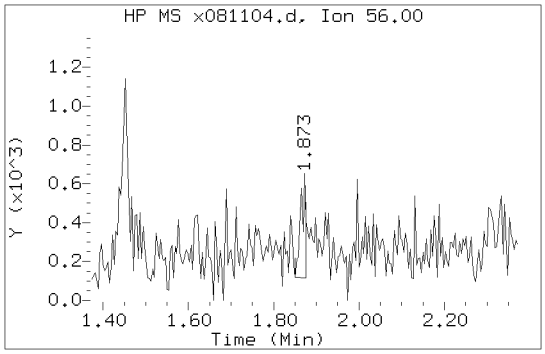
BEFORE

MASS
76
AREA
11149
HEIGHT
6254
12-Aug-2023
22:50



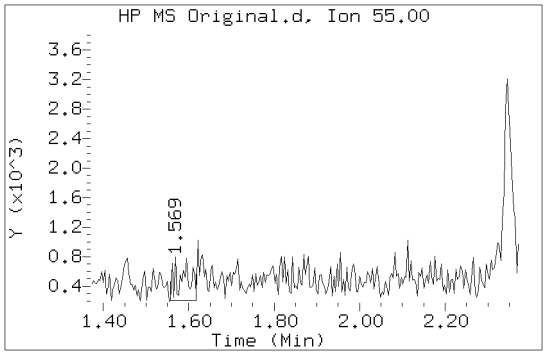
AFTER

MASS
56
AREA
463
HEIGHT
538
23-Aug-2023
11:12



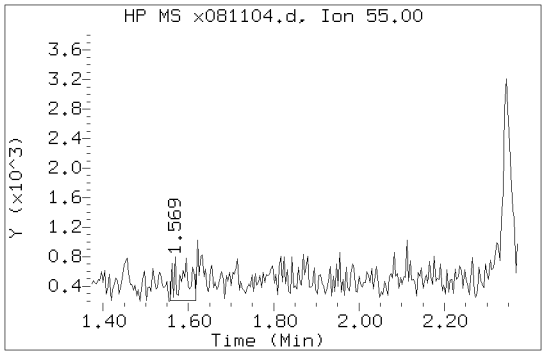
BEFORE

MASS
78
AREA
2915
HEIGHT
1944
12-Aug-2023
22:50



AFTER

MASS
55
AREA
1030
HEIGHT
586
23-Aug-2023
11:12

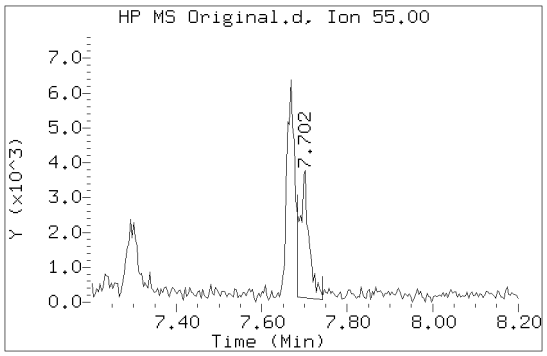


1-Chlorohexane (544-10-5)

Reason Code:

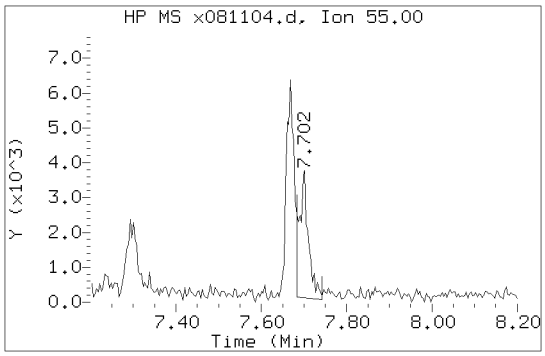
BEFORE

MASS
164
AREA
4911
HEIGHT
3482
12-Aug-2023
22:50



AFTER

MASS
55
AREA
5712
HEIGHT
3660
23-Aug-2023
11:12



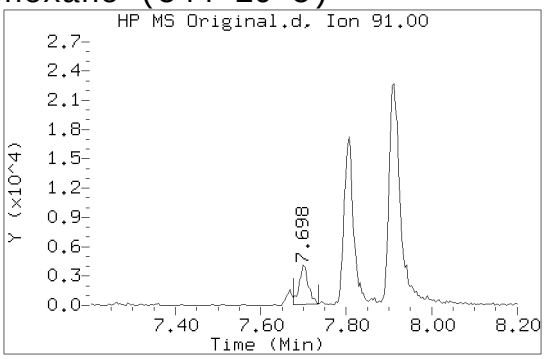
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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

1-Chlorohexane (544-10-5)

Reason Code:

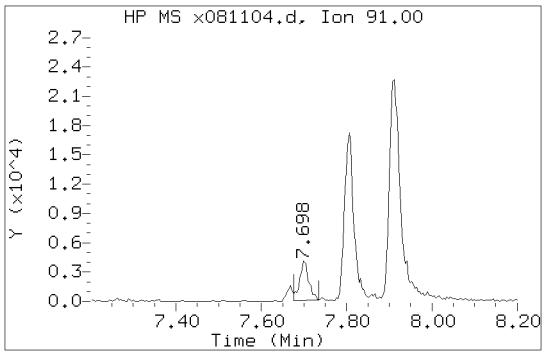
BEFORE

MASS
129
AREA
3751
HEIGHT
2547
12-Aug-2023
22:50



AFTER

MASS
91
AREA
6313
HEIGHT
4090
23-Aug-2023
11:12

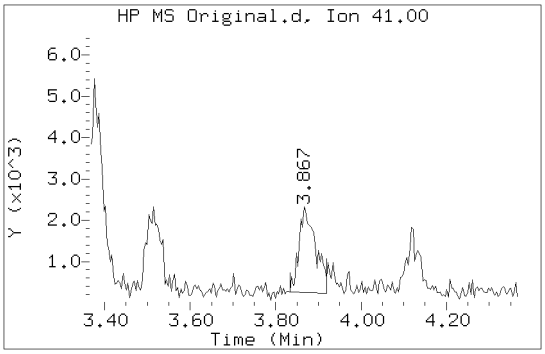


Methacrylonitrile (126-98-7)

Reason Code:

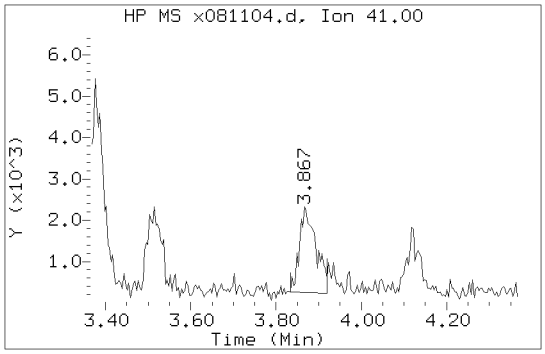
BEFORE

MASS
152
AREA
476655
HEIGHT
320692
12-Aug-2023
22:50



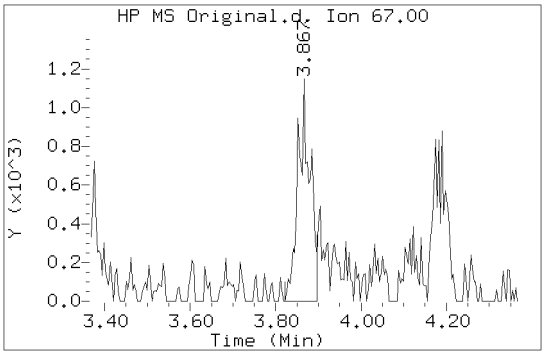
AFTER

MASS
41
AREA
5673
HEIGHT
2076
23-Aug-2023
11:12



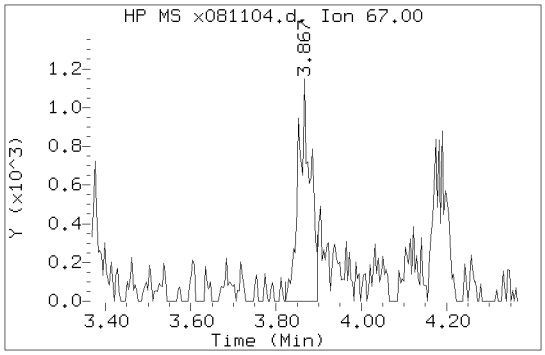
BEFORE

MASS
115
AREA
256989
HEIGHT
183296
12-Aug-2023
22:50



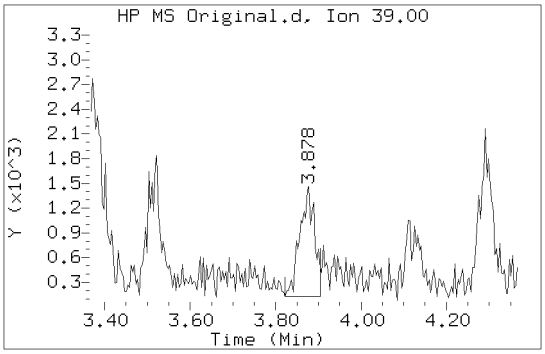
AFTER

MASS
67
AREA
2280
HEIGHT
1148
23-Aug-2023
11:12



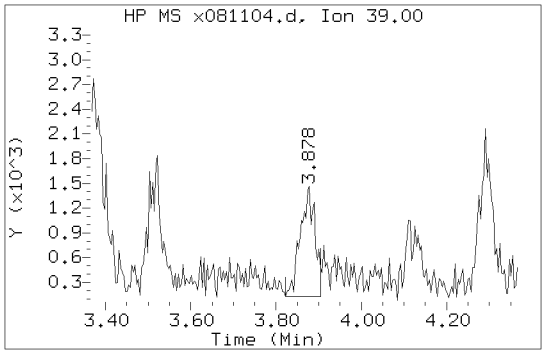
BEFORE

MASS
150
AREA
747243
HEIGHT
511169
12-Aug-2023
22:50



AFTER

MASS
39
AREA
3209
HEIGHT
1333
23-Aug-2023
11:12



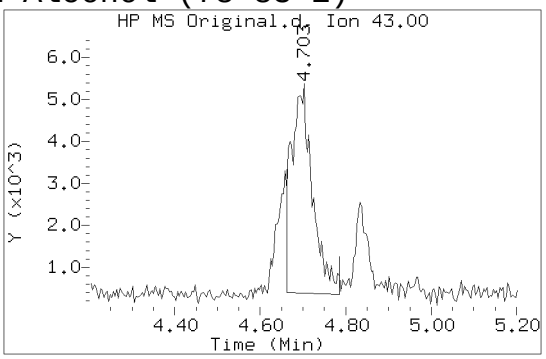
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InstruID : voa6.i
LabSampID : VSTD001

Isobutyl Alcohol (78-83-1)

Reason Code:

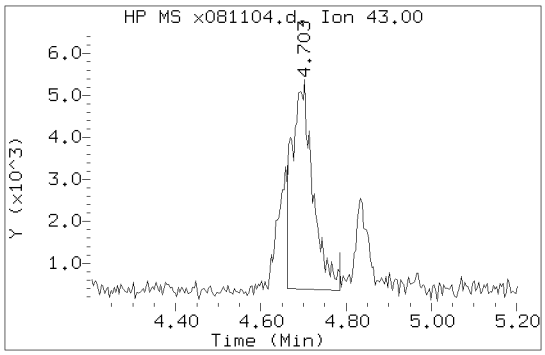
BEFORE

MASS
75
AREA
5998
HEIGHT
3929
12-Aug-2023
22:50



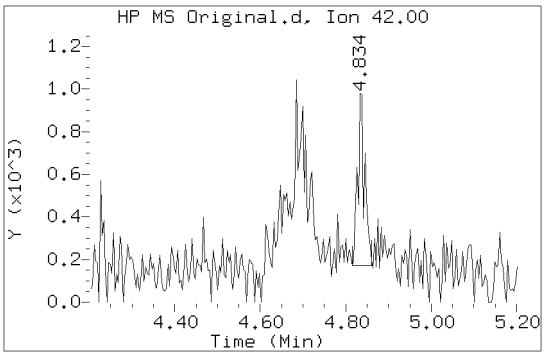
AFTER

MASS
43
AREA
17428
HEIGHT
4985
23-Aug-2023
11:12



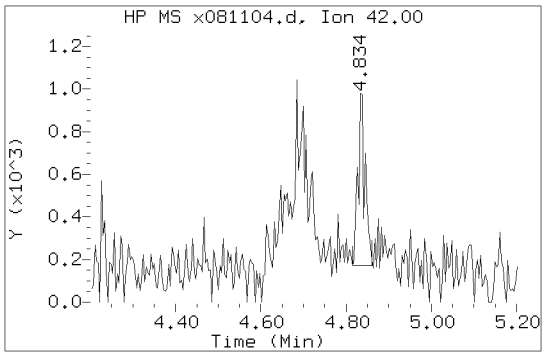
BEFORE

MASS
77
AREA
3025
HEIGHT
1956
12-Aug-2023
22:50



AFTER

MASS
42
AREA
911
HEIGHT
807
23-Aug-2023
11:12

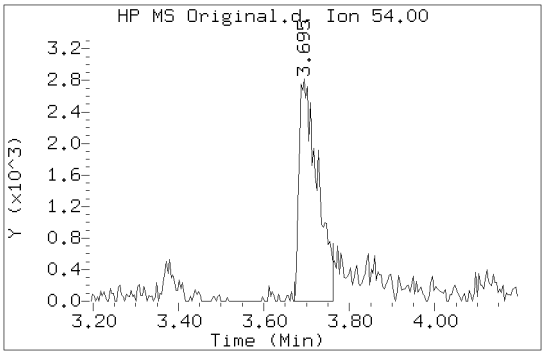


Propionitrile (107-12-0)

Reason Code:

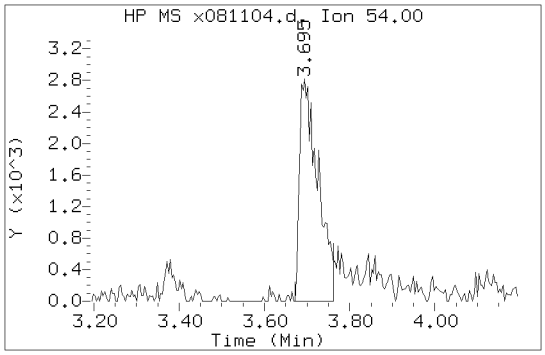
BEFORE

MASS
91
AREA
21461
HEIGHT
9564
12-Aug-2023
22:50



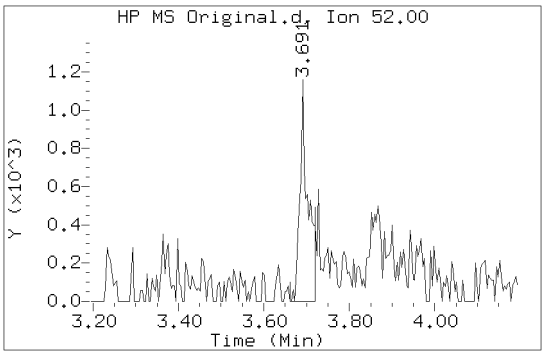
AFTER

MASS
54
AREA
8585
HEIGHT
2819
23-Aug-2023
11:12



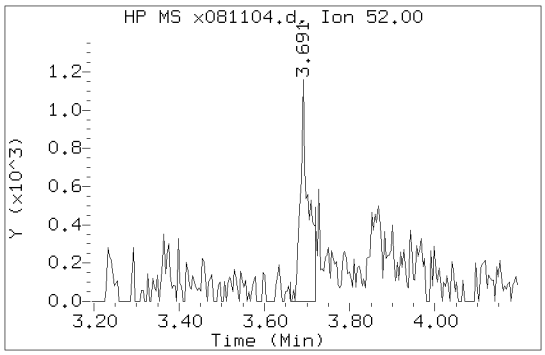
BEFORE

MASS
126
AREA
6861
HEIGHT
3502
12-Aug-2023
22:50



AFTER

MASS
52
AREA
1544
HEIGHT
1159
23-Aug-2023
11:12

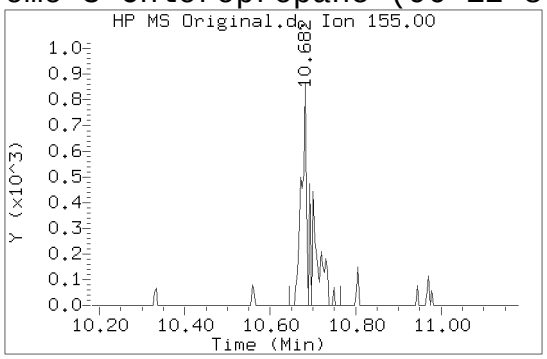


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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

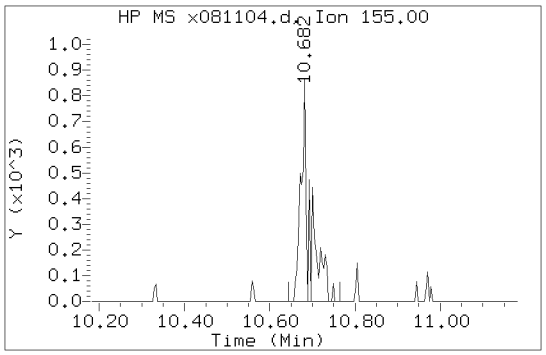
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

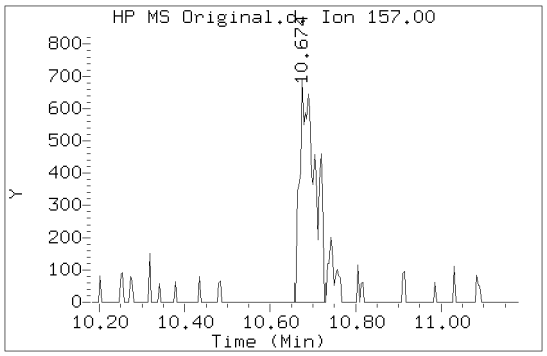
BEFORE
MASS
155
AREA
1274
HEIGHT
863
12-Aug-2023
22:50



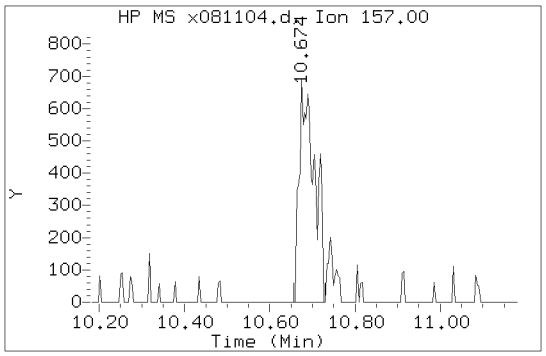
AFTER
MASS
155
AREA
1274
HEIGHT
863
23-Aug-2023
11:12



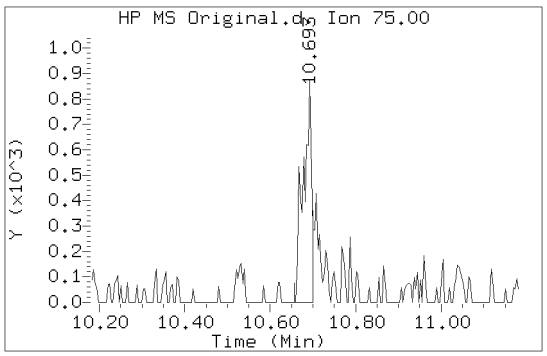
BEFORE
MASS
157
AREA
1735
HEIGHT
689
12-Aug-2023
22:50



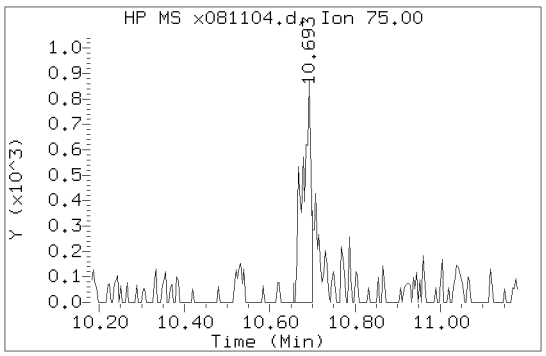
AFTER
MASS
157
AREA
1735
HEIGHT
689
23-Aug-2023
11:12



BEFORE
MASS
75
AREA
1196
HEIGHT
872
12-Aug-2023
22:50



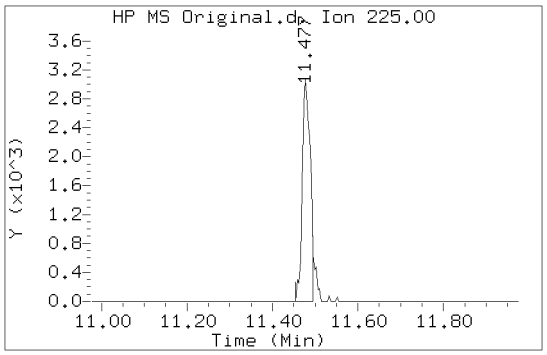
AFTER
MASS
75
AREA
1196
HEIGHT
872
23-Aug-2023
11:12



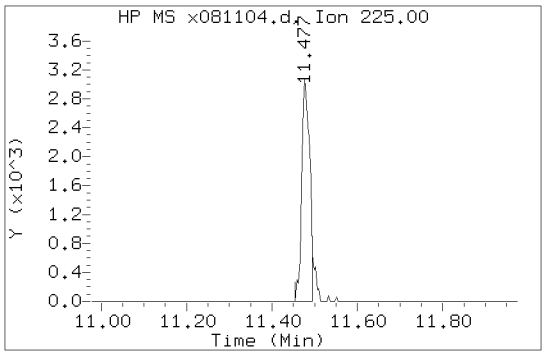
Hexachlorobutadiene (87-68-3)

Reason Code:

BEFORE
MASS
225
AREA
4132
HEIGHT
3064
12-Aug-2023
22:50



AFTER
MASS
225
AREA
4132
HEIGHT
3064
23-Aug-2023
11:12



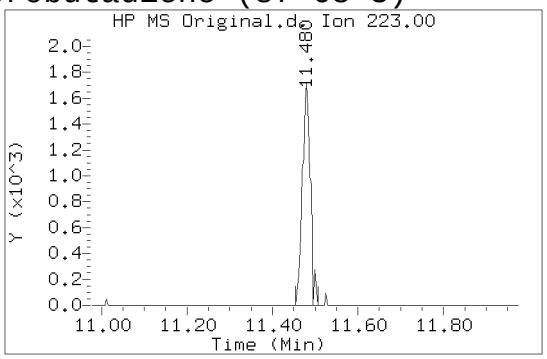
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

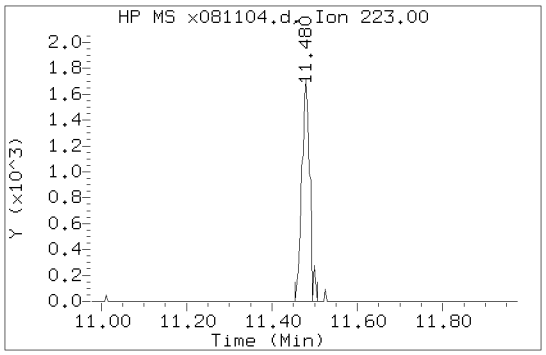
BEFORE

MASS
223
AREA
2286
HEIGHT
1712
12-Aug-2023
22:50



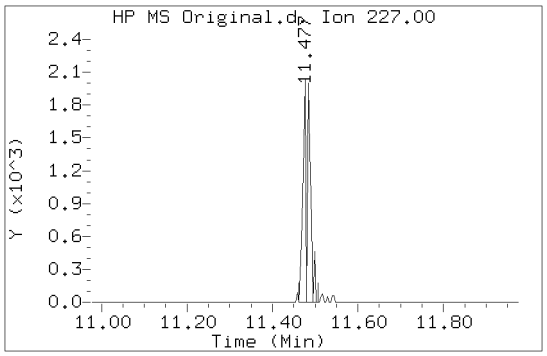
AFTER

MASS
223
AREA
2286
HEIGHT
1712
23-Aug-2023
11:12



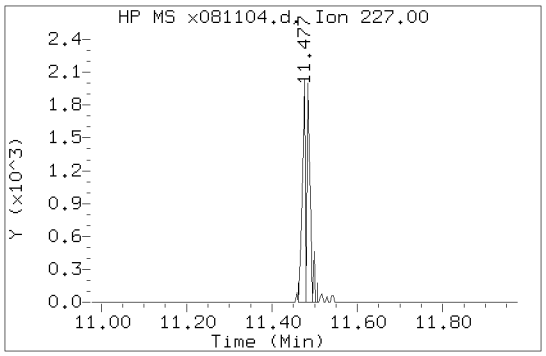
BEFORE

MASS
227
AREA
2066
HEIGHT
2030
12-Aug-2023
22:50



AFTER

MASS
227
AREA
2066
HEIGHT
2030
23-Aug-2023
11:12

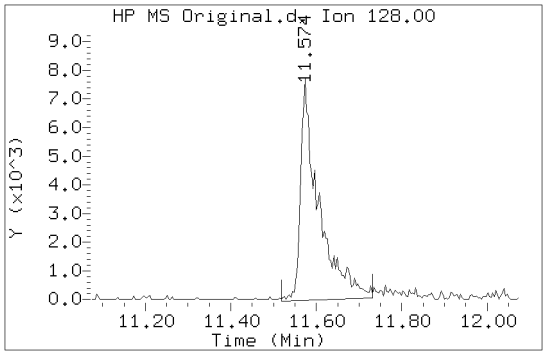


Naphthalene (91-20-3)

Reason Code:

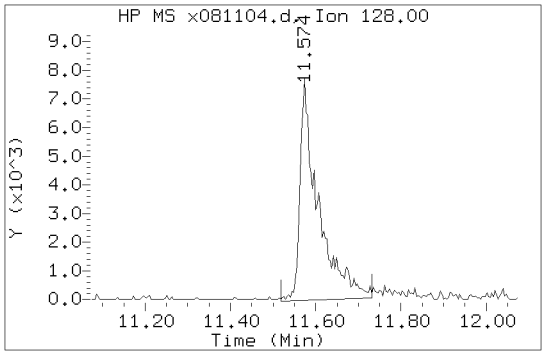
BEFORE

MASS
128
AREA
23210
HEIGHT
7730
12-Aug-2023
22:50



AFTER

MASS
128
AREA
23210
HEIGHT
7730
23-Aug-2023
11:12

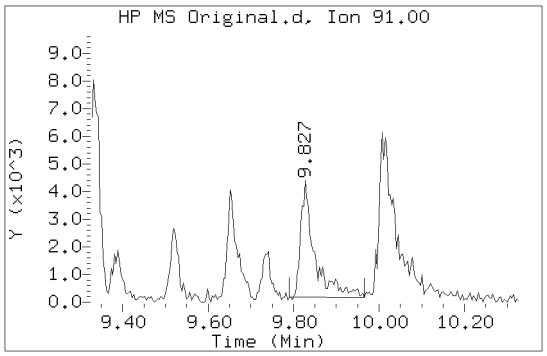


Benzyl Chloride (100-44-7)

Reason Code:

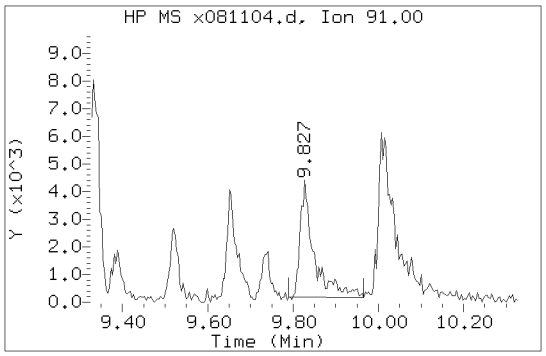
BEFORE

MASS
53
AREA
2338
HEIGHT
850
12-Aug-2023
22:50



AFTER

MASS
91
AREA
9809
HEIGHT
4242
23-Aug-2023
11:12

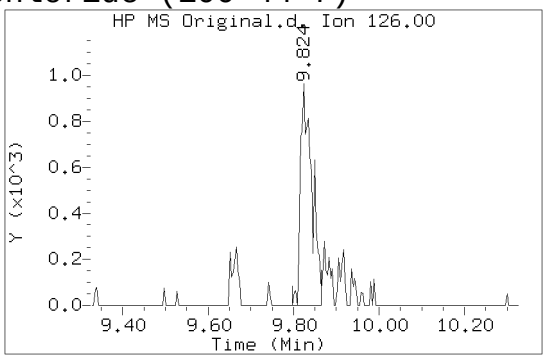


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

Benzyl Chloride (100-44-7)

BEFORE

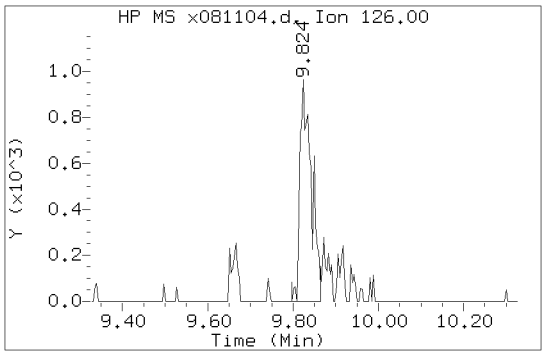
MASS
75
AREA
1352
HEIGHT
922
12-Aug-2023
22:50



AFTER

MASS
126
AREA
1816
HEIGHT
964
23-Aug-2023
11:12

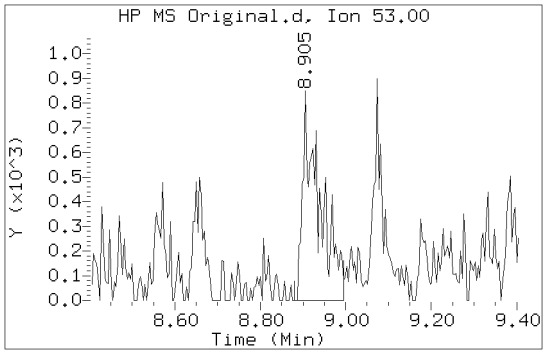
Reason Code:



trans-1,4-Dichloro-2-butene (110-57-6)

BEFORE

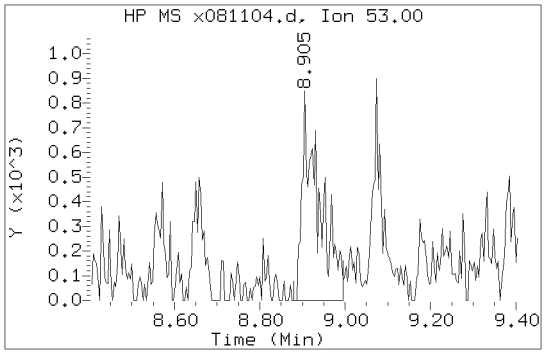
MASS
53
AREA
2637
HEIGHT
2155
12-Aug-2023
22:50



AFTER

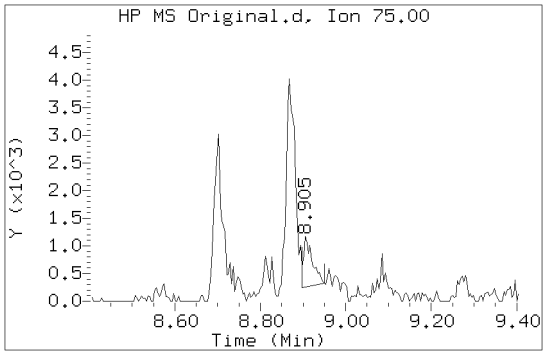
MASS
53
AREA
2338
HEIGHT
850
23-Aug-2023
11:12

Reason Code:



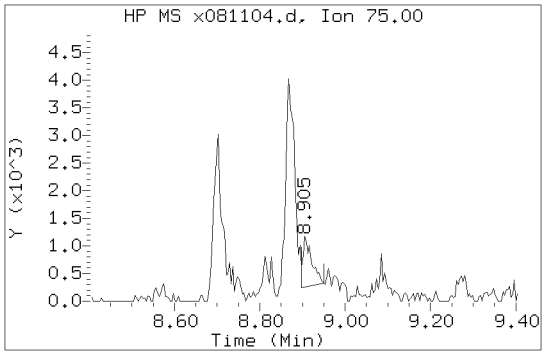
BEFORE

MASS
88
AREA
0
HEIGHT
0
12-Aug-2023
22:50



AFTER

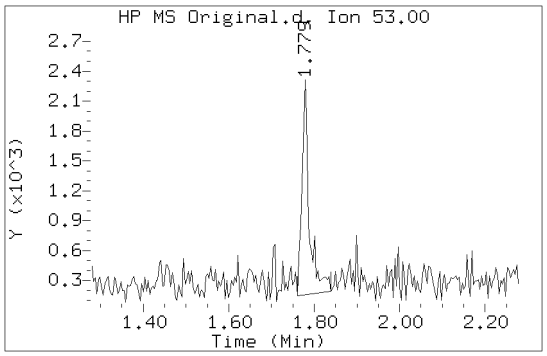
MASS
75
AREA
1352
HEIGHT
922
23-Aug-2023
11:12



Chloroprene (126-99-8)

BEFORE

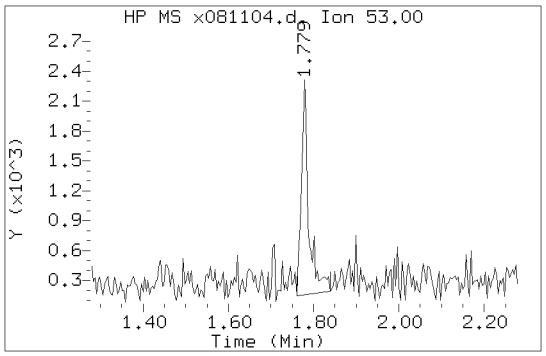
MASS
43
AREA
6893
HEIGHT
2620
12-Aug-2023
22:50



AFTER

MASS
53
AREA
2637
HEIGHT
2155
23-Aug-2023
11:12

Reason Code:



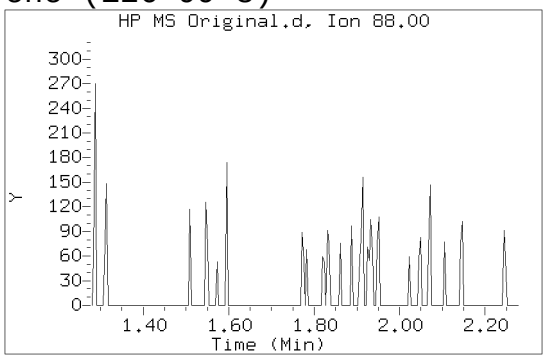
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InstruID : voa6.i
LabSampID : VSTD001

Chloroprene (126-99-8)

Reason Code:

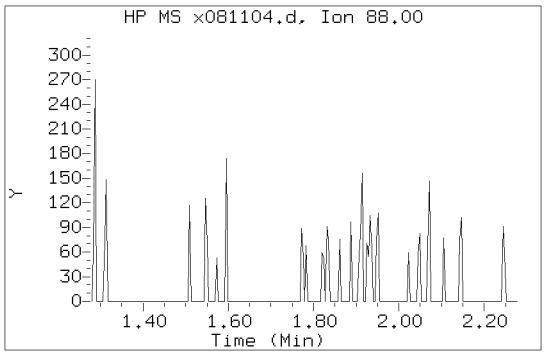
BEFORE

MASS
61
AREA
0
HEIGHT
0
12-Aug-2023
22:50



AFTER

MASS
88
AREA
0
HEIGHT
0
23-Aug-2023
11:12

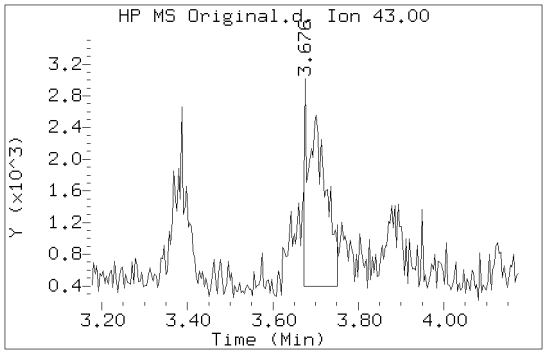


Ethyl Acetate (141-78-6)

Reason Code:

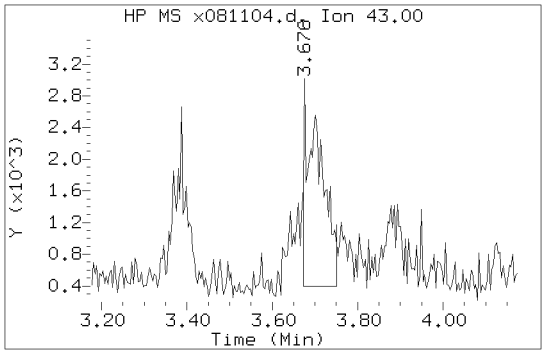
BEFORE

MASS
55
AREA
6078
HEIGHT
1428
12-Aug-2023
22:50



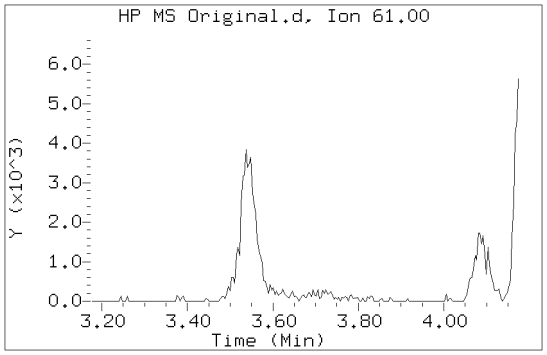
AFTER

MASS
43
AREA
6893
HEIGHT
2620
23-Aug-2023
11:12



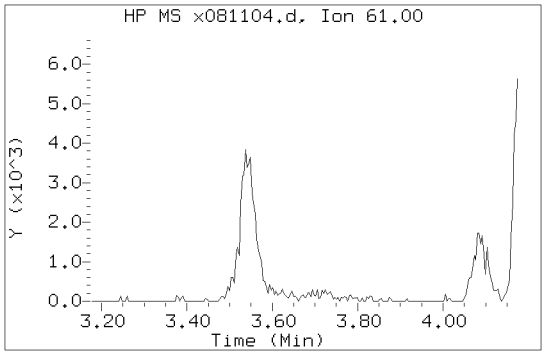
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Aug-2023
22:50



AFTER

MASS
61
AREA
0
HEIGHT
0
23-Aug-2023
11:12

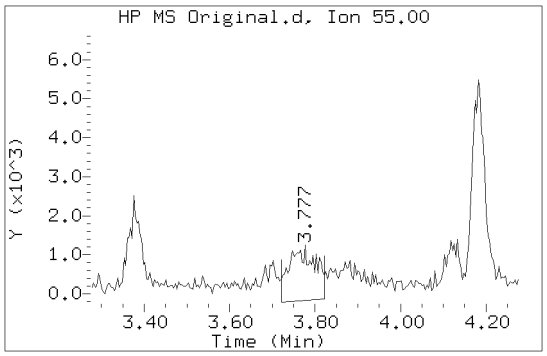


Methyl Acrylate (96-33-3)

Reason Code:

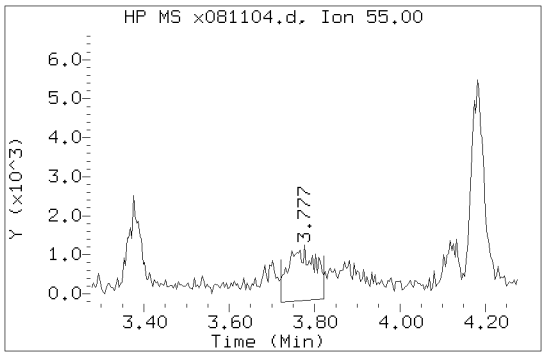
BEFORE

MASS
56
AREA
2659
HEIGHT
1447
12-Aug-2023
22:50



AFTER

MASS
55
AREA
6078
HEIGHT
1428
23-Aug-2023
11:12

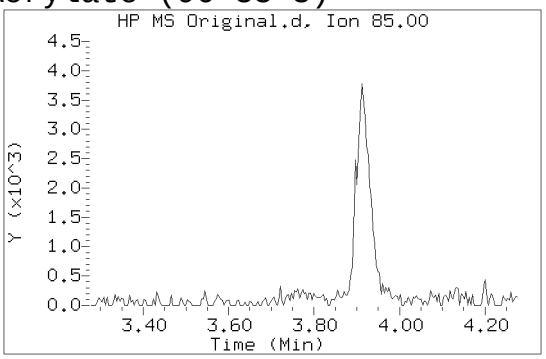


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

BEFORE

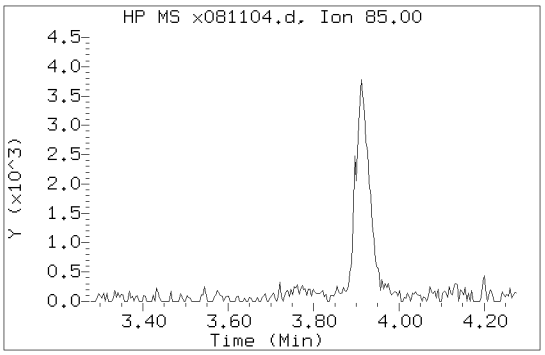
MASS
41
AREA
3757
HEIGHT
1633
12-Aug-2023
22:50



AFTER

MASS
85
AREA
0
HEIGHT
0
23-Aug-2023
11:12

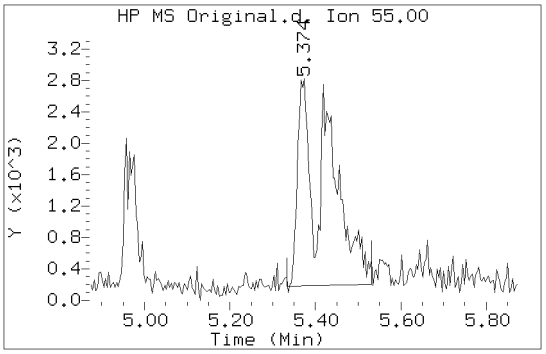
Reason Code:



Ethyl Acrylate (140-88-5)

BEFORE

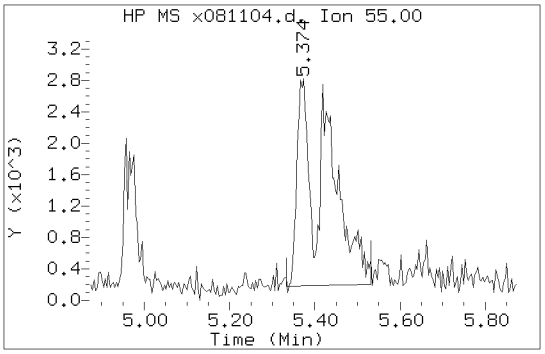
MASS
55
AREA
7180
HEIGHT
5609
12-Aug-2023
22:50



AFTER

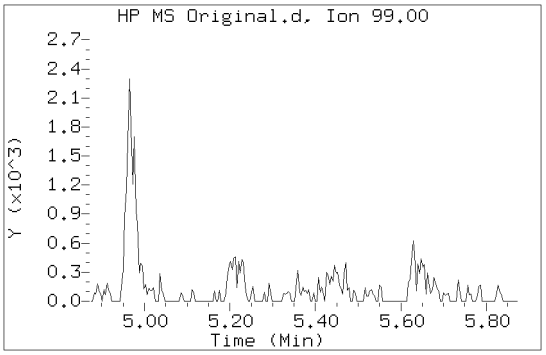
MASS
55
AREA
12771
HEIGHT
2638
23-Aug-2023
11:12

Reason Code:



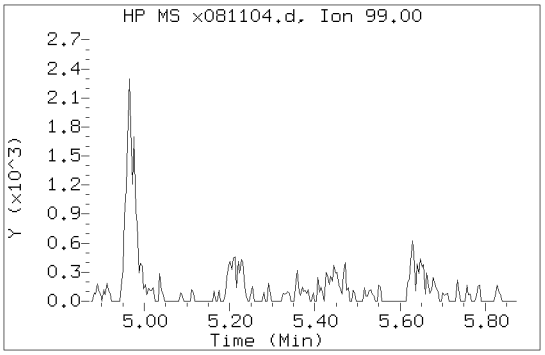
BEFORE

MASS
42
AREA
7056
HEIGHT
4197
12-Aug-2023
22:50



AFTER

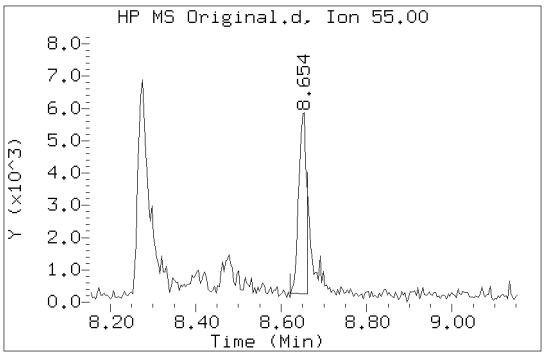
MASS
99
AREA
0
HEIGHT
0
23-Aug-2023
11:12



Cyclohexanone (108-94-1)

BEFORE

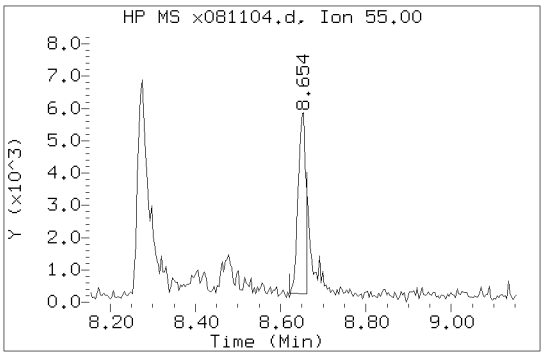
MASS
88
AREA
1553
HEIGHT
996
12-Aug-2023
22:50



AFTER

MASS
55
AREA
7180
HEIGHT
5609
23-Aug-2023
11:12

Reason Code:



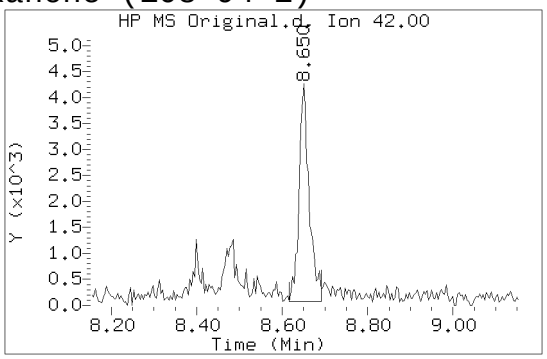
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

Cyclohexanone (108-94-1)

Reason Code:

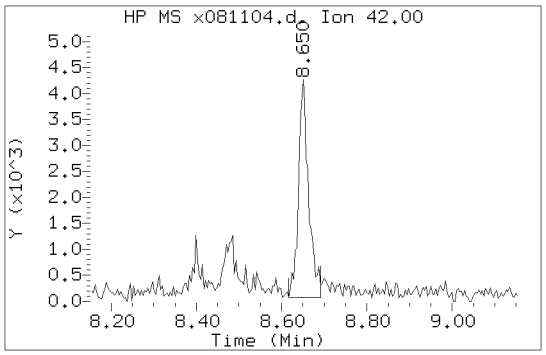
BEFORE

MASS
58
AREA
1534
HEIGHT
1243
12-Aug-2023
22:50



AFTER

MASS
42
AREA
7056
HEIGHT
4197
23-Aug-2023
11:12

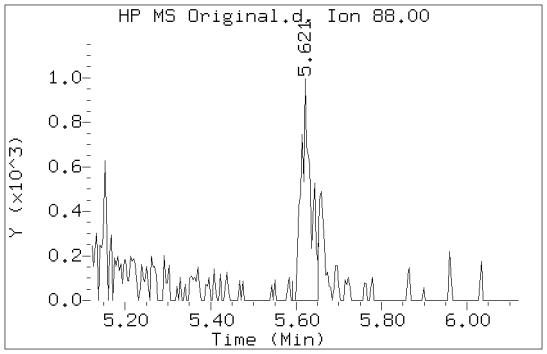


1,4-Dioxane ()

Reason Code:

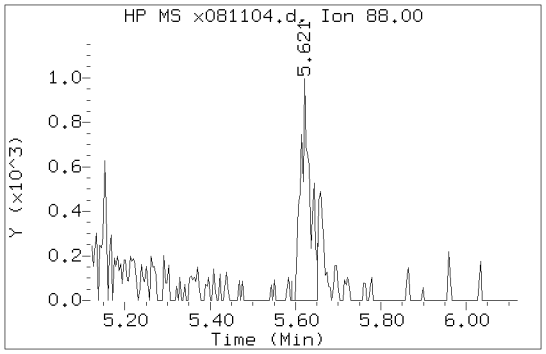
BEFORE

MASS
57
AREA
6841
HEIGHT
2866
12-Aug-2023
22:50



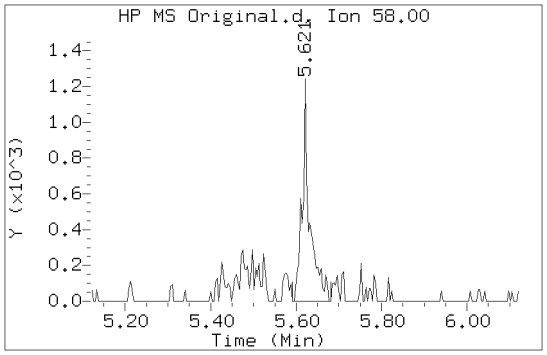
AFTER

MASS
88
AREA
1553
HEIGHT
996
23-Aug-2023
11:12



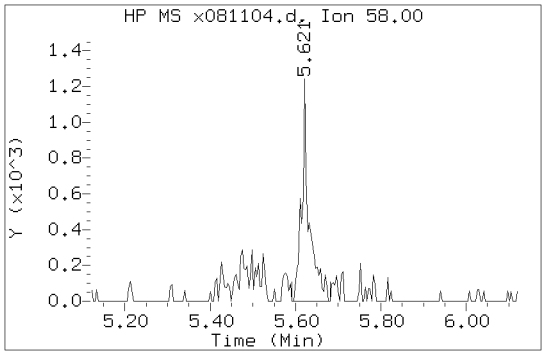
BEFORE

MASS
41
AREA
4034
HEIGHT
2416
12-Aug-2023
22:50



AFTER

MASS
58
AREA
1534
HEIGHT
1243
23-Aug-2023
11:12

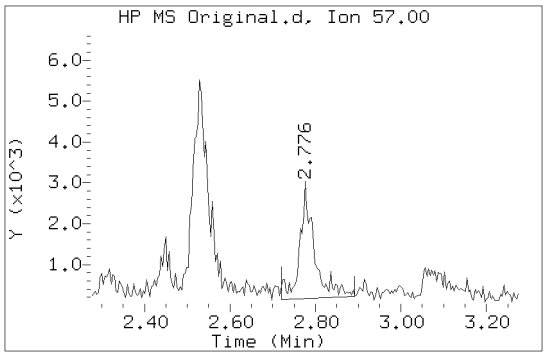


n-Hexane (110-54-3)

Reason Code:

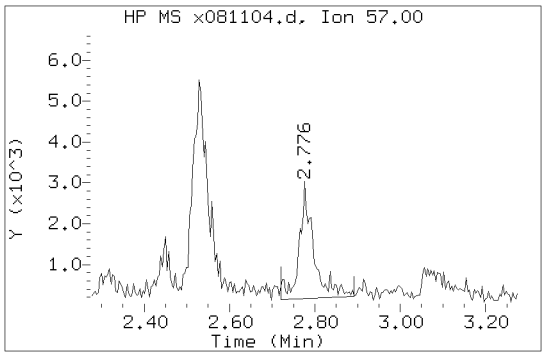
BEFORE

MASS
59
AREA
5859
HEIGHT
3734
12-Aug-2023
22:50



AFTER

MASS
57
AREA
6841
HEIGHT
2866
23-Aug-2023
11:12

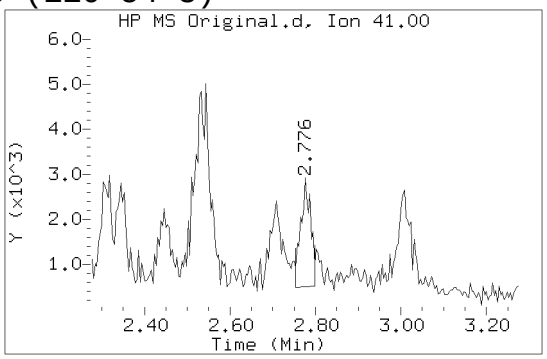


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Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

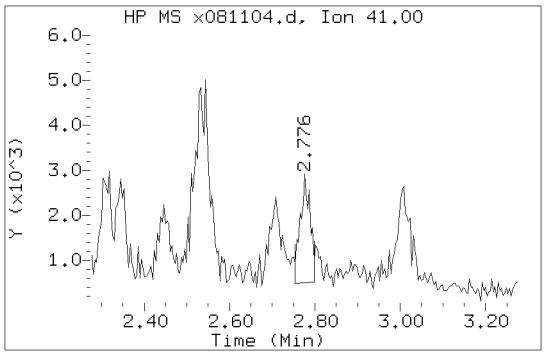
n-Hexane (110-54-3)

Reason Code:

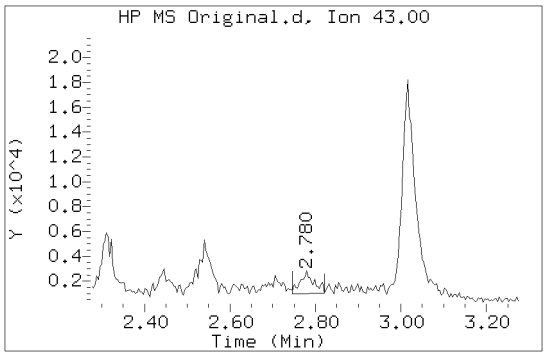
BEFORE
MASS
74
AREA
5241
HEIGHT
3056
12-Aug-2023
22:50



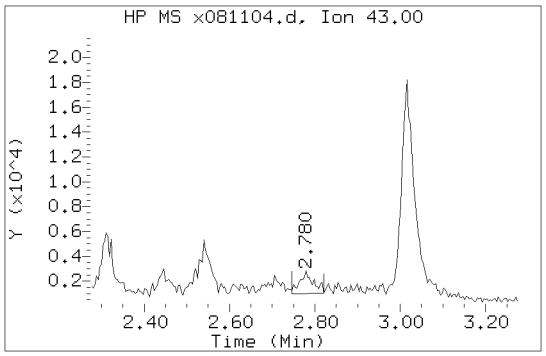
AFTER
MASS
41
AREA
4034
HEIGHT
2416
23-Aug-2023
11:12



BEFORE
MASS
45
AREA
4217
HEIGHT
3242
12-Aug-2023
22:50



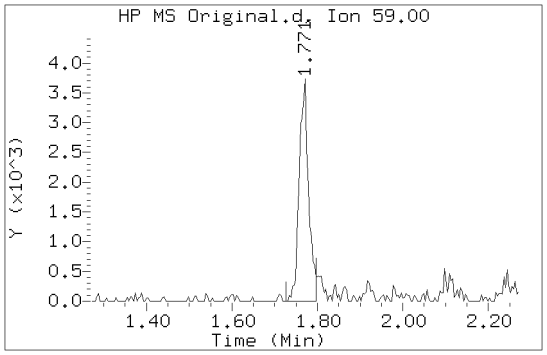
AFTER
MASS
43
AREA
3979
HEIGHT
1820
23-Aug-2023
11:12



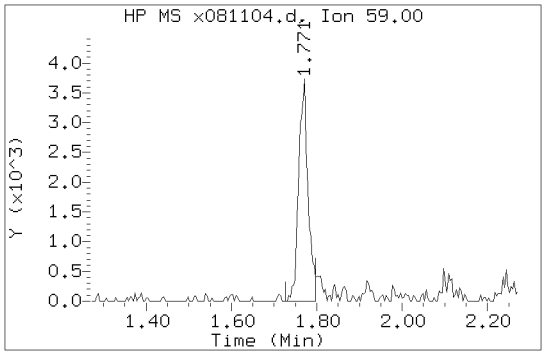
Diethyl ether (60-29-7)

Reason Code:

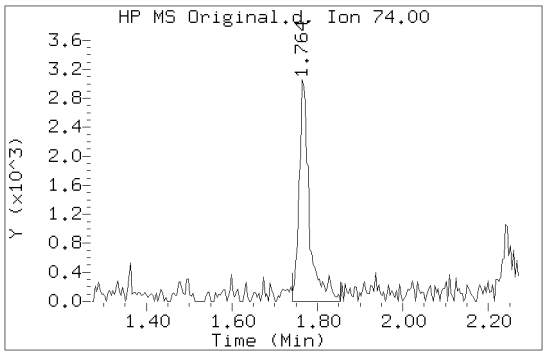
BEFORE
MASS
54
AREA
5912
HEIGHT
6761
12-Aug-2023
22:50



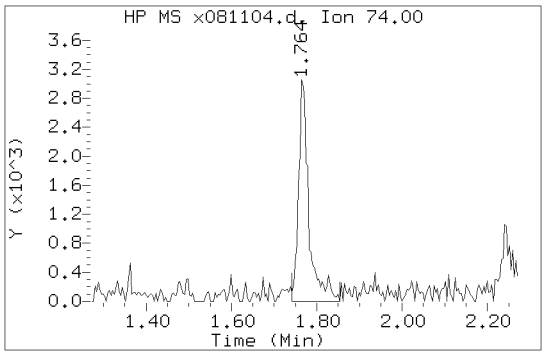
AFTER
MASS
59
AREA
5859
HEIGHT
3734
23-Aug-2023
11:12



BEFORE
MASS
53
AREA
3952
HEIGHT
3847
12-Aug-2023
22:50



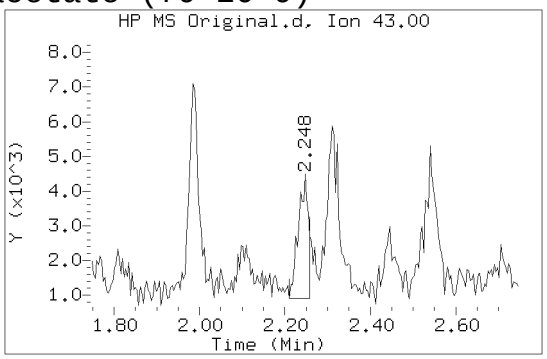
AFTER
MASS
74
AREA
5241
HEIGHT
3056
23-Aug-2023
11:12



Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

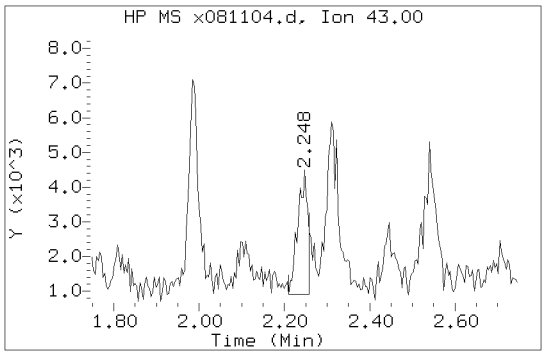
Methyl acetate (79-20-9)

BEFORE
MASS
101
AREA
4459
HEIGHT
2440
12-Aug-2023
22:50

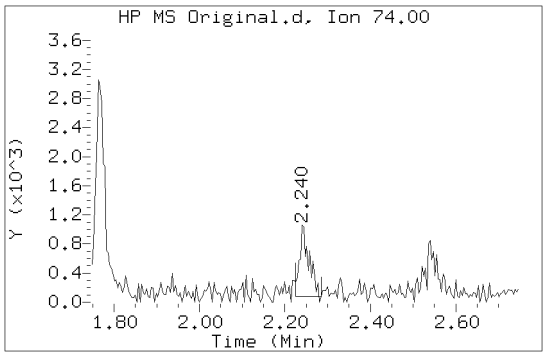


Reason Code:

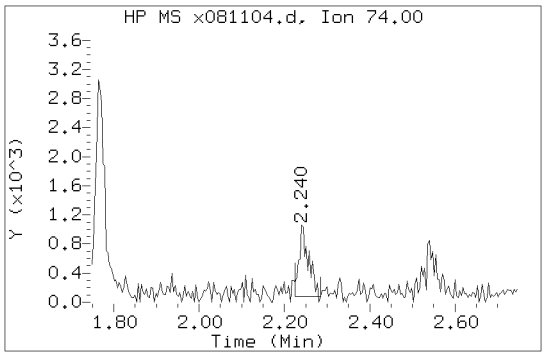
AFTER
MASS
43
AREA
5952
HEIGHT
3593
23-Aug-2023
11:12



BEFORE
MASS
151
AREA
3753
HEIGHT
2002
12-Aug-2023
22:50

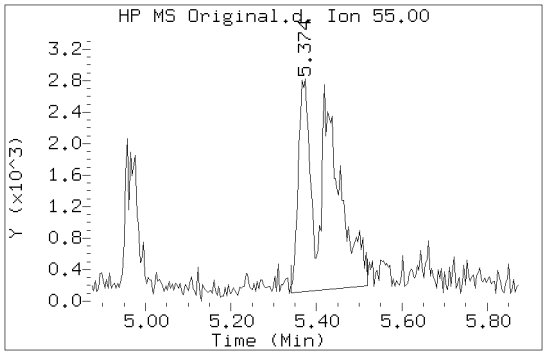


AFTER
MASS
74
AREA
1517
HEIGHT
975
23-Aug-2023
11:12



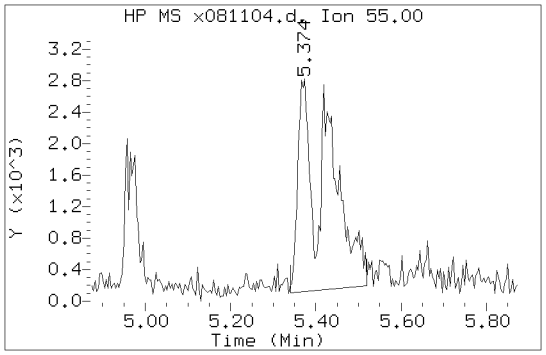
Methylcyclohexane (108-87-2)

BEFORE
MASS
118
AREA
9352
HEIGHT
6614
12-Aug-2023
22:50

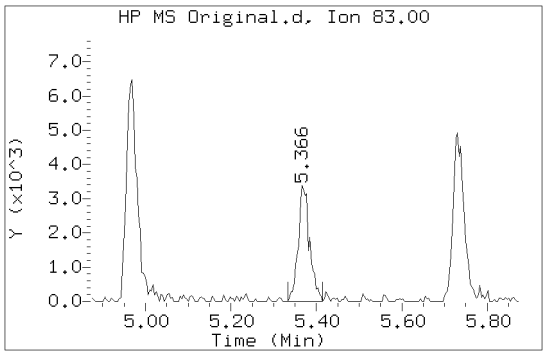


Reason Code:

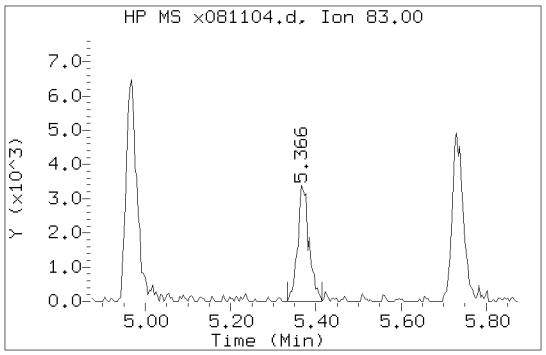
AFTER
MASS
55
AREA
13003
HEIGHT
2701
23-Aug-2023
11:12



BEFORE
MASS
103
AREA
5656
HEIGHT
3410
12-Aug-2023
22:50



AFTER
MASS
83
AREA
6392
HEIGHT
3382
23-Aug-2023
11:12

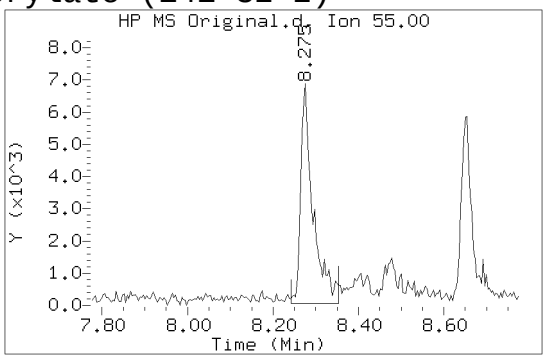


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

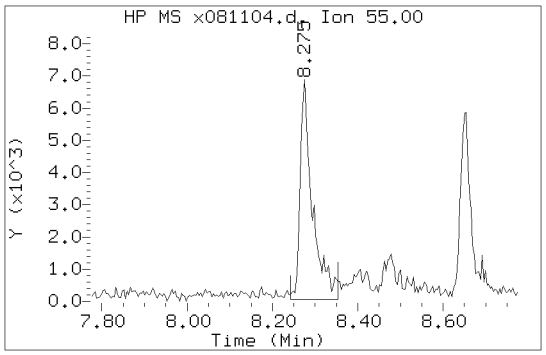
Butyl acrylate (141-32-2)

Reason Code:

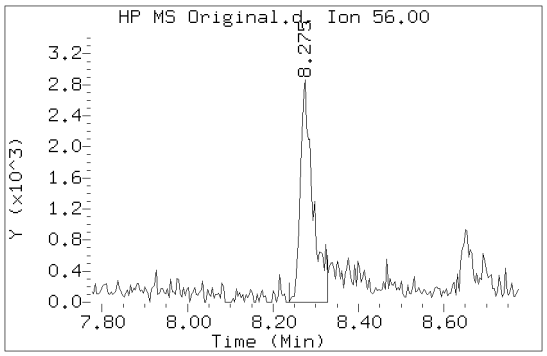
BEFORE
MASS
44
AREA
4717
HEIGHT
4655
12-Aug-2023
22:50



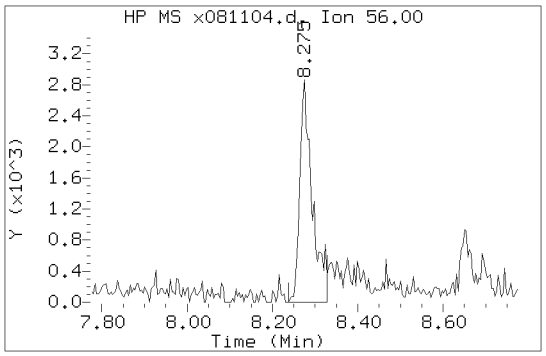
AFTER
MASS
55
AREA
14061
HEIGHT
6826
23-Aug-2023
11:12



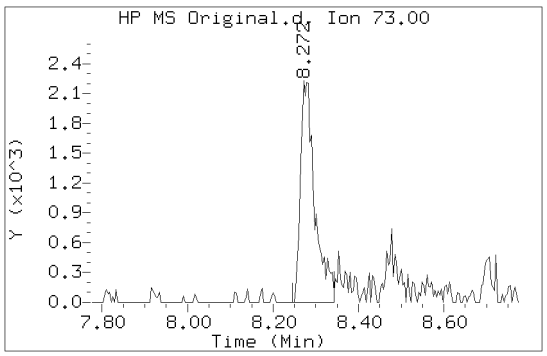
BEFORE
MASS
43
AREA
0
HEIGHT
0
12-Aug-2023
22:50



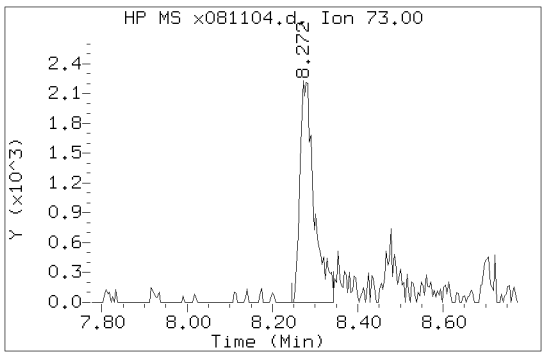
AFTER
MASS
56
AREA
5918
HEIGHT
2863
23-Aug-2023
11:12



BEFORE
MASS
42
AREA
0
HEIGHT
0
12-Aug-2023
22:50



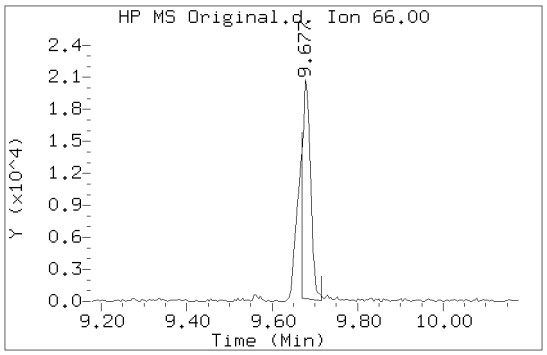
AFTER
MASS
73
AREA
5292
HEIGHT
2231
23-Aug-2023
11:12



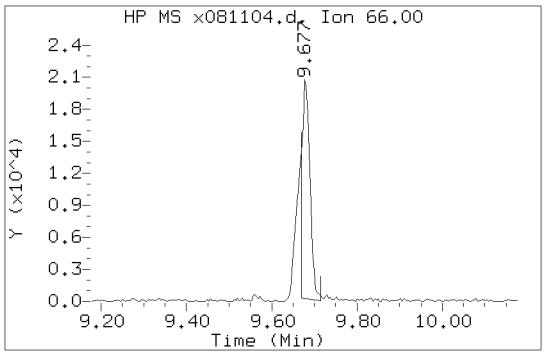
Dicyclopentadiene (77-73-6)

Reason Code:

BEFORE
MASS
41
AREA
886
HEIGHT
818
12-Aug-2023
22:50



AFTER
MASS
66
AREA
27109
HEIGHT
20508
23-Aug-2023
11:12



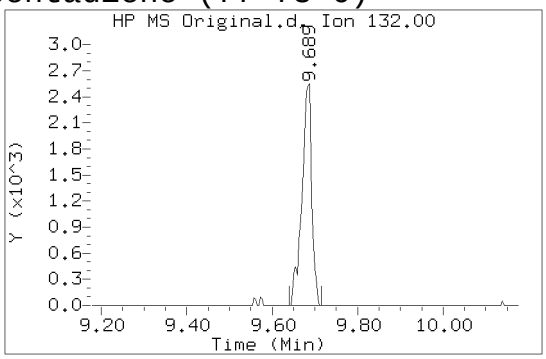
Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081104.d
Inj Date : 11-AUG-2023 12:35
InstruID : voa6.i
LabSampID : VSTD001

Dicyclopentadiene (77-73-6)

Reason Code:

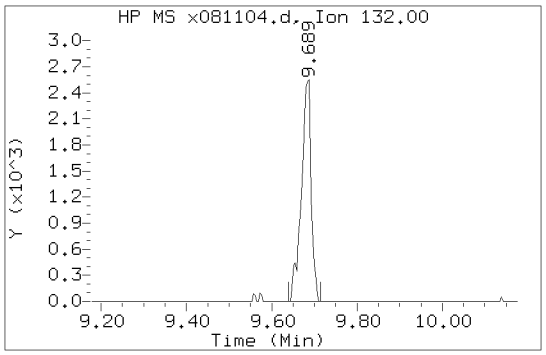
BEFORE

MASS
56
AREA
0
HEIGHT
0
12-Aug-2023
22:50



AFTER

MASS
132
AREA
4182
HEIGHT
2551
23-Aug-2023
11:12



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081105.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 11-AUG-2023 12:55
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 12:55 Cal File: X081105.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	592297	50.0000	
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	11597	2.00000	2.77
3	Chloromethane	50	1.085	1.085	(0.260)	11158	2.00000	1.93(M)
4	Propionitrile	54	3.686	3.686	(0.882)	15043	20.0000	18.23(a)
5	Vinyl Chloride	62	1.149	1.149	(0.275)	14331	2.00000	2.01
6	Bromomethane	94	1.344	1.344	(0.321)	7835	2.00000	2.04
7	Chloroethane	64	1.411	1.411	(0.338)	9899	2.00000	2.12
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	20104	2.00000	1.98
9	Acrolein	56	1.868	1.868	(0.447)	887	4.00000	1.94(aM)
11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	12243	2.00000	2.14
12	Isobutyl Alcohol	43	4.695	4.695	(1.123)	36780	40.0000	39.61(a)
13	Acetonitrile	39	2.206	2.206	(0.528)	20852	20.0000	22.82(a)
14	Allyl Chloride	41	2.209	2.209	(0.528)	40111	2.00000	2.22(a)
15	Iodomethane	142	2.033	2.033	(0.486)	9663	4.00000	6.95
16	Acrylonitrile	53	2.543	2.543	(0.608)	11577	4.00000	4.20
17	Methylene Chloride	84	2.307	2.307	(0.552)	15136	2.00000	2.11(M)
18	Methyl tert-butyl ether	73	2.543	2.543	(0.608)	42266	2.00000	2.07
19	Carbon Disulfide	76	2.075	2.075	(0.496)	70178	4.00000	4.13
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	13433	2.00000	2.02
21	Vinyl Acetate	43	3.008	3.008	(0.719)	72401	4.00000	3.68
22	1,1-Dichloroethane	63	2.929	2.929	(0.701)	26795	2.00000	2.14

23 Chloroprene	53	1.775	1.775 (0.424)	5152	2.00000	2.05(aM)
24 2-Butanone	43	3.671	3.671 (0.878)	8139	4.00000	3.71(MH)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	3.866	3.866	(0.925)	11361	2.00000	1.92(aM)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	17055	2.00000	2.01
	27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.845)	11950	2.00000	1.87
	28 Chloroform	83	3.915	3.915	(0.936)	22778	2.00000	2.07
	29 Bromochloromethane	128	3.803	3.803	(0.909)	7505	2.00000	2.06
$	30 Dibromofluoromethane	113	4.110	4.110	(0.983)	12062	2.00000	1.42
	31 1,1,1-Trichloroethane	97	4.088	4.088	(0.978)	16785	2.00000	1.90
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	14157	2.00000	1.94(H)
	33 1,2-Dichloroethane	62	4.571	4.571	(0.921)	16915	2.00000	1.92
	34 Carbon Tetrachloride	117	4.267	4.267	(0.860)	14921	2.00000	1.94(H)
$	35 1,2-Dichloroethane-d4	65	4.485	4.485	(1.073)	13488	2.00000	1.16
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	923485	50.0000	
	37 Benzene	78	4.522	4.522	(0.911)	43496	2.00000	1.91
	38 Trichloroethene	130	5.212	5.212	(1.050)	12729	2.00000	1.94(a)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	15520	2.00000	1.83(a)
	40 Methyl Methacrylate	41	5.624	5.624	(1.345)	10263	2.00000	1.88(a)
	41 2-Chloroethylvinyl ether	63	6.067	6.067	(1.222)	9072	4.00000	4.18(aM)
	42 1,2-Dichloropropane	63	5.448	5.448	(1.097)	12216	2.00000	1.90(aM)
	43 2-Nitropropane	43	5.981	5.981	(1.430)	4651	2.00000	2.13(a)
	44 Dibromomethane	93	5.553	5.553	(1.119)	8617	2.00000	1.96(a)
	45 4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	26871	4.00000	4.25(a)
	46 cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	17563	2.00000	1.81(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	881014	50.0000	
$	48 Toluene-d8	98	6.389	6.389	(0.833)	43332	2.00000	2.08(a)
	49 Ethyl Methacrylate	69	6.794	6.794	(1.368)	16413	2.00000	1.93(aH)
	50 Toluene	91	6.453	6.453	(0.842)	45696	2.00000	1.86(a)
	51 trans-1,3-Dichloropropene	75	6.693	6.693	(1.348)	15088	2.00000	1.85(a)
	52 2-Hexanone	43	7.101	7.101	(0.926)	17279	4.00000	4.07(aM)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	9586	2.00000	1.95(a)
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	19127	2.00000	1.91(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	13173	2.00000	1.86(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	8822	2.00000	1.72(aM)
	57 1,2-Dibromoethane	107	7.266	7.266	(0.948)	11663	2.00000	1.95(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	10090	2.00000	1.88(aMH)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	32047	2.00000	1.89(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	12365	2.00000	1.89(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	14909	2.00000	1.78(a)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	38266	4.00000	3.58(a)
	63 o-Xylene	106	8.241	8.241	(1.075)	19853	2.00000	1.88(a)
	64 Styrene	104	8.271	8.271	(1.079)	30274	2.00000	1.72(a)
	66 Bromoform	173	8.413	8.413	(1.097)	8610	2.00000	1.80(a)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	45338	2.00000	1.73(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	16903	2.00000	2.13(aM)
$	69 4-Bromofluorobenzene	95	8.695	8.695	(1.134)	21205	2.00000	2.70(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	485300	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	12105	2.00000	2.08(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.905	8.905	(1.161)	4155	2.00000	1.87(aH)
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	49153	2.00000	1.71(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	14603	2.00000	1.88(a)
	75 1,3,5-Trimethylbenzene	105	9.069	9.069	(0.939)	35325	2.00000	1.68(a)
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	34759	2.00000	1.89(a)
	77 4-Chlorotoluene	91	9.081	9.081	(0.940)	40941	2.00000	1.93(a)

78	tert-Butylbenzene	119	9.336	9.336 (0.966)	30447	2.00000	1.69(a)
79	1,2,4-Trimethylbenzene	105	9.381	9.381 (0.971)	36713	2.00000	1.69(a)

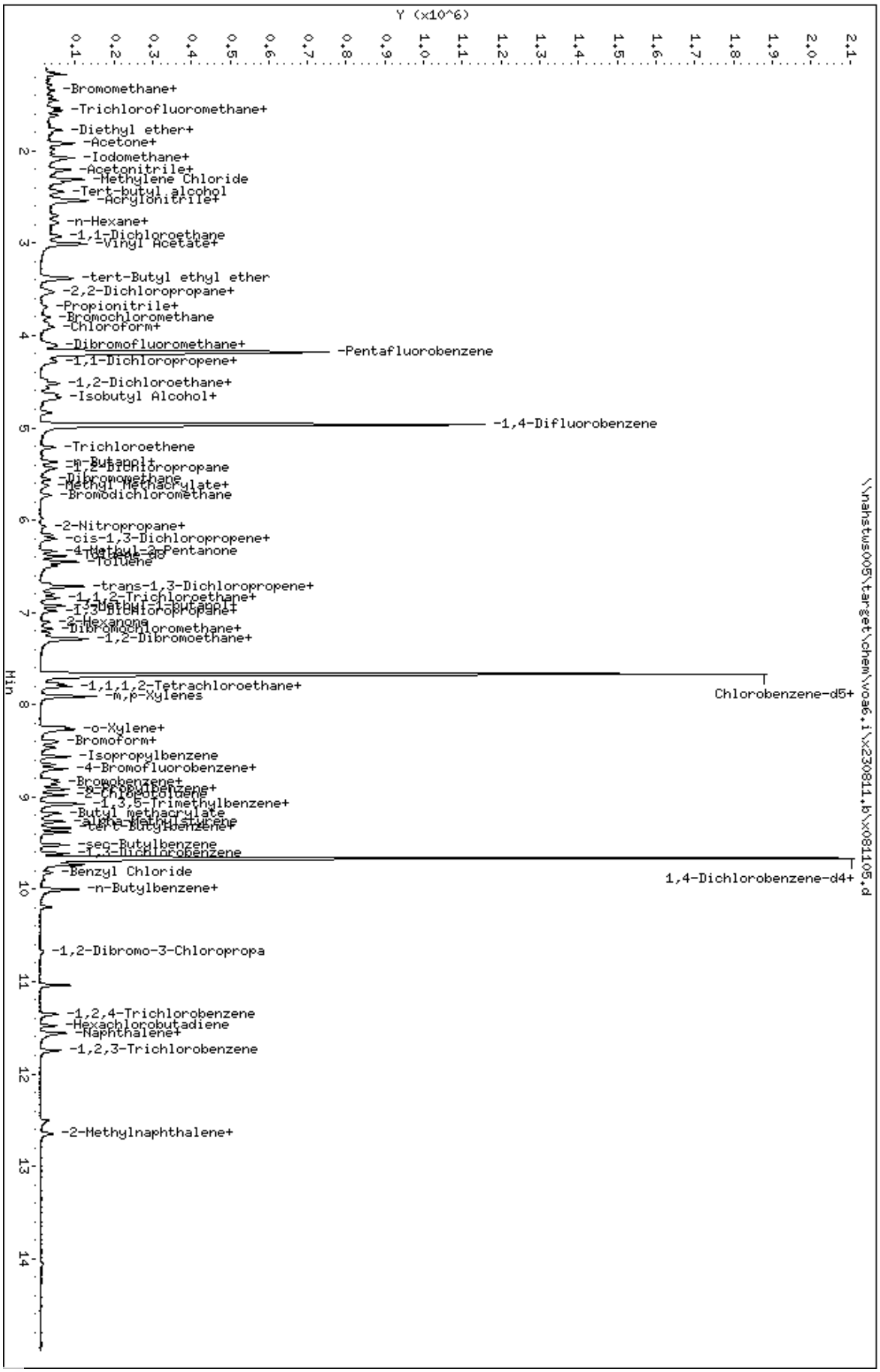
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	41789	2.00000	1.69(a)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	37168	2.00000	1.66(a)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	25707	2.00000	1.86(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	28704	2.00000	1.94(a)
86	Benzyl Chloride	91	9.819	9.819	(1.281)	20601	2.00000	1.63(aM)
87	n-Butylbenzene	91	10.003	10.003	(1.035)	30922	2.00000	3.38(a)
88	1,2-Dichlorobenzene	146	10.003	10.003	(1.035)	26477	2.00000	1.89(a)
89	1,2-Dibromo-3-Chloropropane	155	10.674	10.674	(1.105)	2798	2.00000	2.09(aM)
90	1,2,4-Trichlorobenzene	180	11.356	11.356	(1.175)	16853	2.00000	1.82(a)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	6937	2.00000	1.55(a)
92	Naphthalene	128	11.566	11.566	(1.197)	47126	2.00000	2.04(a)
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	16836	2.00000	1.87(a)
146	Methyl acetate	43	2.239	2.239	(0.536)	10629	2.00000	1.99(a)
138	Freon TF	101	1.917	1.917	(0.459)	10755	2.00000	3.02(a)
141	Cyclohexane	56	4.125	4.125	(0.987)	12705	2.00000	3.37(aH)
142	Tetrahydrofuran	42	3.878	3.878	(0.927)	4312	4.00000	3.73(a)
147	Methylcyclohexane	55	5.370	5.370	(1.082)	25754	2.00000	1.85(aM)
135	1,4-Dioxane	88	5.617	5.617	(1.343)	3316	40.0000	44.04(M)
132	n-Butanol	56	5.310	5.310	(1.270)	5108	40.0000	98.29(aM)
131	Methyl Acrylate	55	3.735	3.735	(0.893)	11619	2.00000	1.98(aM)
133	Ethyl Acrylate	55	5.370	5.370	(1.284)	26539	2.00000	1.89(M)
136	n-Hexane	57	2.779	2.779	(0.665)	12200	2.00000	1.49(a)
139	Diethyl ether	59	1.763	1.763	(0.422)	10605	2.00000	2.02(a)
148	Tert-butyl alcohol	59	2.438	2.438	(0.583)	45475	40.0000	51.55
149	Isopropyl alcohol	45	2.104	2.104	(0.503)	25882	40.0000	50.16
156	Diisopropyl ether	45	3.008	3.008	(0.719)	41580	2.00000	1.94(Ta)
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	45337	2.00000	2.01(a)
167	Ethanol	45	1.711	1.711	(0.409)	4283	40.0000	37.41(M)
172	tert-Butyl formate	59	4.639	4.639	(1.109)	32972	4.00000	5.57
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	35234	40.0000	42.32
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	51664	2.00000	2.08(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	37841	2.00000	1.97(a)
176	tert-Amyl alcohol	59	4.639	4.639	(1.109)	32972	40.0000	55.83
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	78208	40.0000	42.66
180	1-Methylnaphthalene	142	12.646	12.646	(1.309)	19848	2.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	12815	2.00000	2.10(a)
152	Amyl alcohol	42	6.989	6.989	(0.912)	1303	40.0000	17.86
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	22063	2.00000	2.15
159	Propylene oxide	43	1.808	1.808	(0.433)	3657	4.00000	3.82(a)
161	3-Methyl-1-butanol	55	6.940	6.940	(0.905)	6652	40.0000	43.66
162	Butyl acrylate	55	8.267	8.267	(1.078)	27159	2.00000	1.89(aM)
163	Butyl methacrylate	41	9.174	9.174	(0.950)	18823	2.00000	1.91(a)
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	58027	2.00000	2.19(aM)
182	Epichlorohydrin	57	6.112	6.112	(1.231)	5186	8.00000	9.18(M)
M 94	1,2-Dichloroethylene (total)	96				25383	4.00000	3.89(a)
M 95	Xylenes (total)	106				58119	6.00000	5.46(a)
130	Ethyl Acetate	43	3.686	3.686	(0.882)	13837	2.00000	2.03(aM)
134	Cyclohexanone	55	8.646	8.646	(0.895)	14092	40.0000	45.59(a)
185	Isoprene	39	1.775	1.775	(0.424)	5624	2.00000	2.28(a)
188	Isopropyl acetate	43	4.695	4.695	(0.946)	35340	2.00000	1.89(aM)
189	n-Butyl acetate	43	7.225	7.225	(0.942)	19611	2.00000	1.94(aM)
150	Allyl alcohol	57	2.779	2.779	(0.665)	12200	40.0000	31.71

194 Acetaldehyde	44	1.216	1.216 (0.291)	7566	8.00000	4.57(aM)
195 Methyl Amyl Ketone	43	8.391	8.391 (1.094)	28251	2.00000	1.84(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	20404	2.00000	1.75(aM)
202 Isobutylene	41	1.246	1.246	(0.298)	1584	2.00000	2.03(aM)
205 2-Ethylhexyl Acrylate	55	11.559	11.559	(1.196)	18677	2.00000	1.88(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Date : 11-AUG-2023 12:55
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

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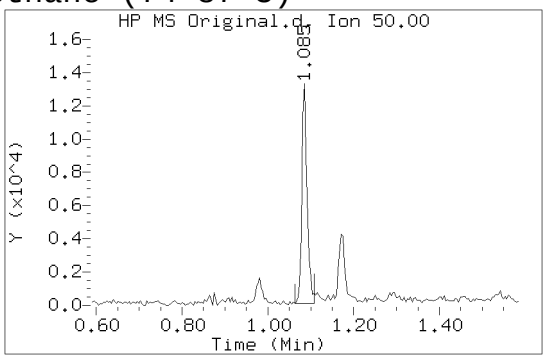
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

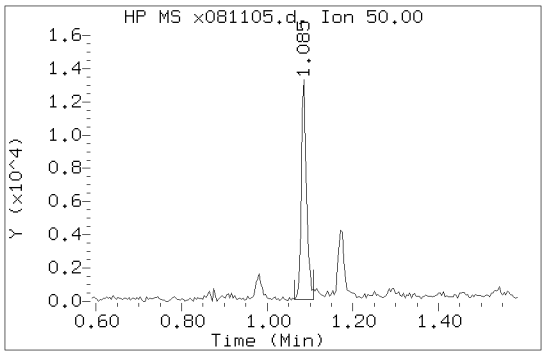
Chloromethane (74-87-3)

Reason Code:

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12-Aug-2023
22:50



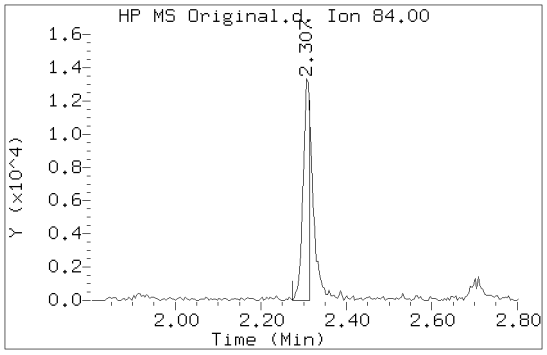
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23-Aug-2023
11:11



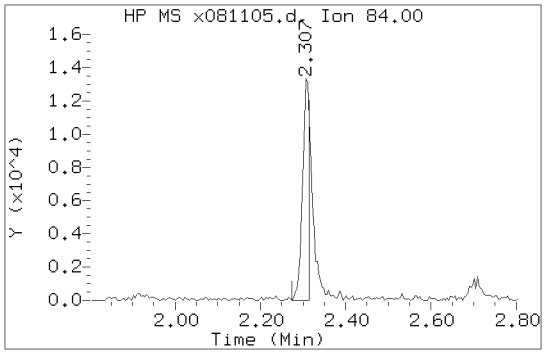
Methylene Chloride (75-09-2)

Reason Code:

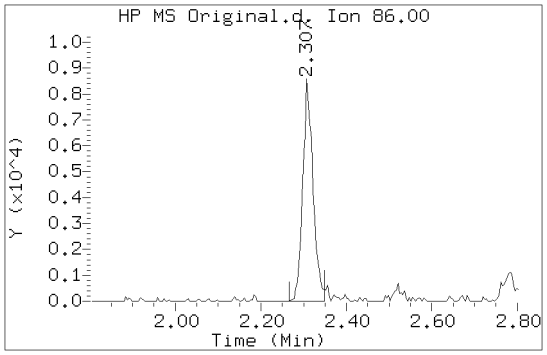
BEFORE
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12-Aug-2023
22:50



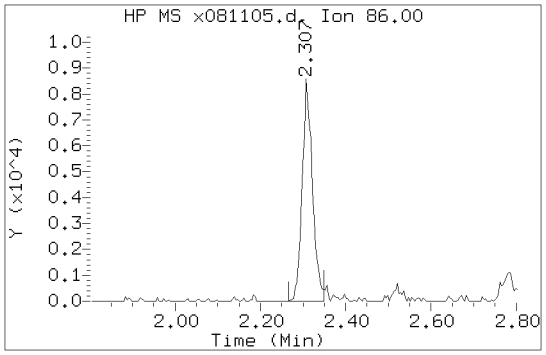
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23-Aug-2023
11:11



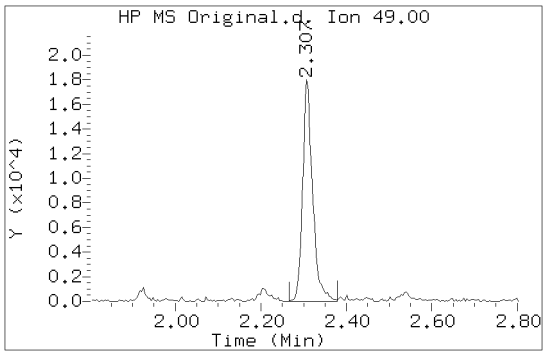
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22:50



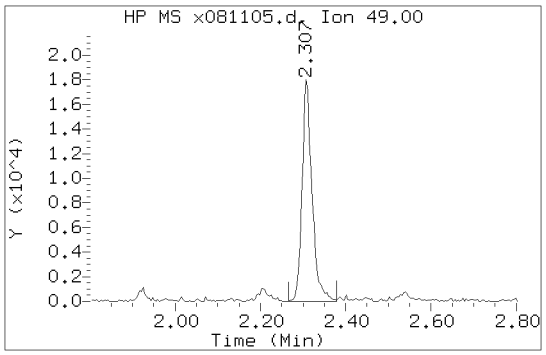
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23-Aug-2023
11:11



BEFORE
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12-Aug-2023
22:50



AFTER
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23-Aug-2023
11:11

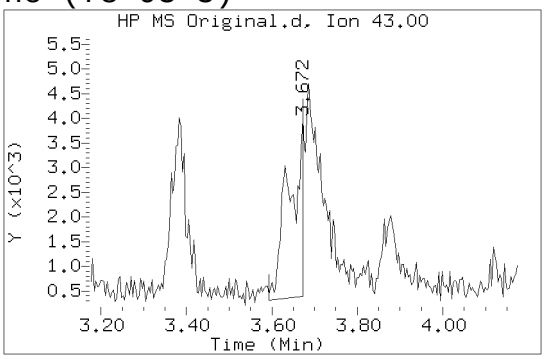


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InstruID : voa6.i
LabSampID : VSTD002

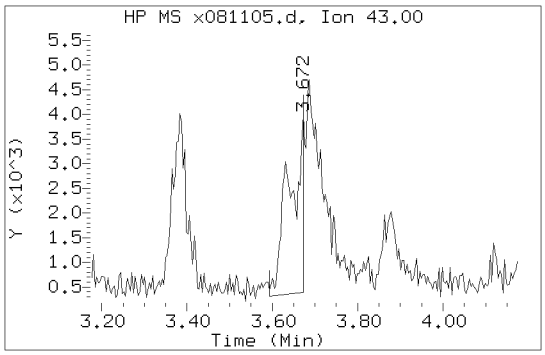
2-Butanone (78-93-3)

Reason Code:

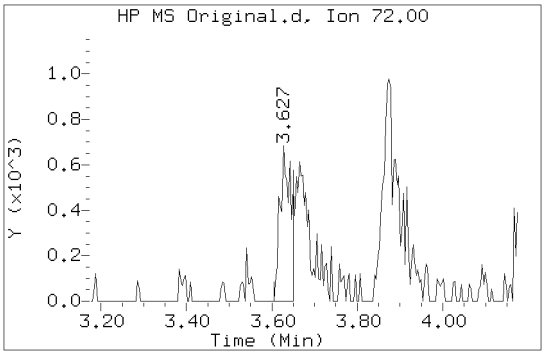
BEFORE
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12-Aug-2023
22:50



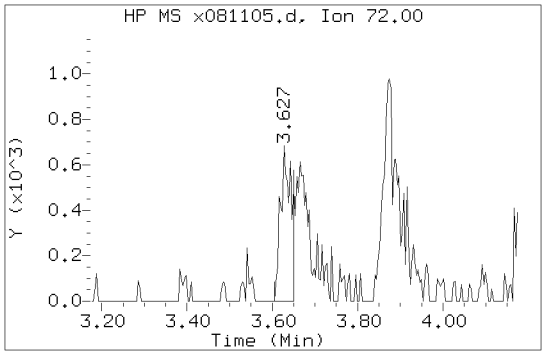
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23-Aug-2023
11:11



BEFORE
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12-Aug-2023
22:50



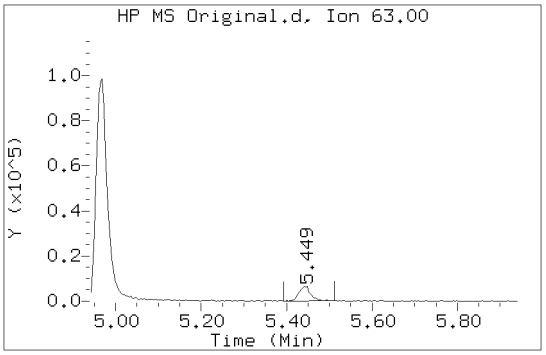
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23-Aug-2023
11:11



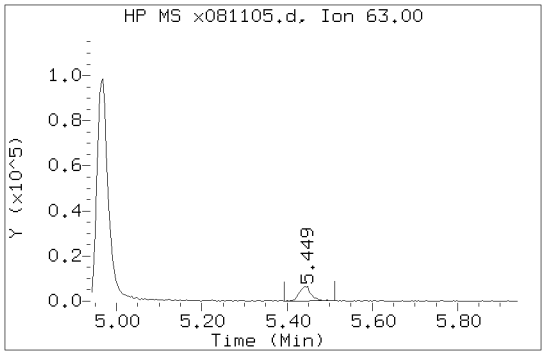
1,2-Dichloropropane (78-87-5)

Reason Code:

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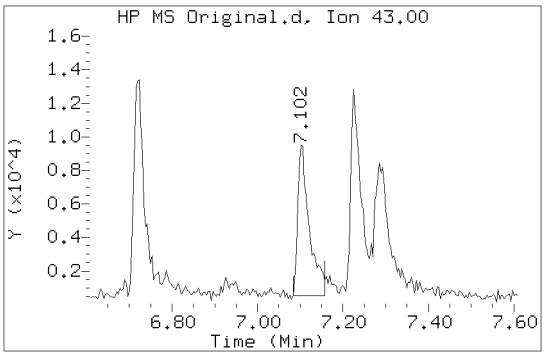
AFTER
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23-Aug-2023
11:11



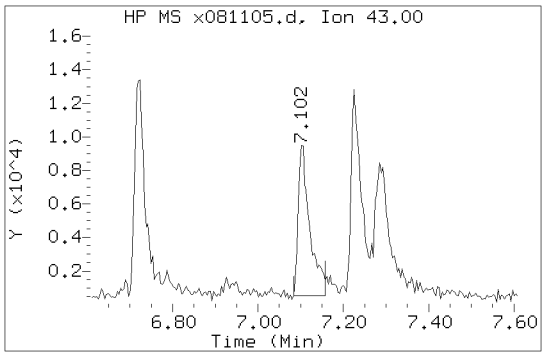
2-Hexanone (591-78-6)

Reason Code:

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HEIGHT
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12-Aug-2023
22:50



AFTER
MASS
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AREA
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HEIGHT
8977
23-Aug-2023
11:11

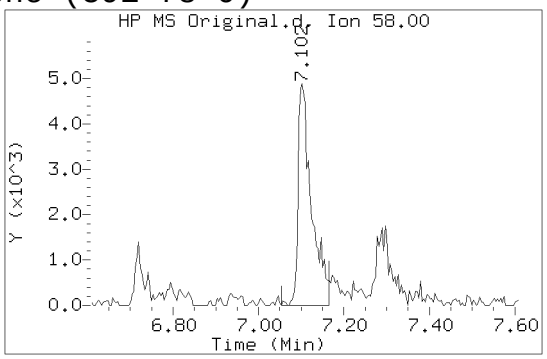


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

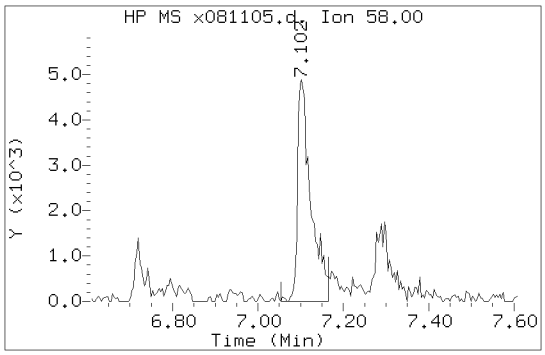
2-Hexanone (591-78-6)

Reason Code:

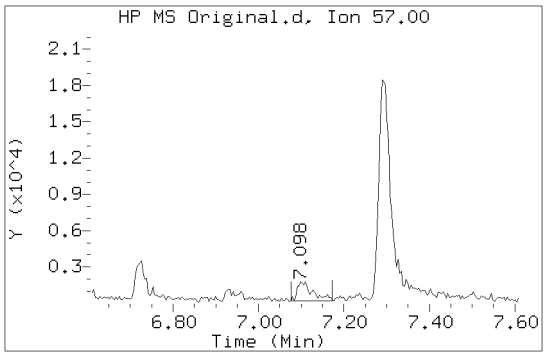
BEFORE
MASS
58
AREA
11005
HEIGHT
6041
12-Aug-2023
22:50



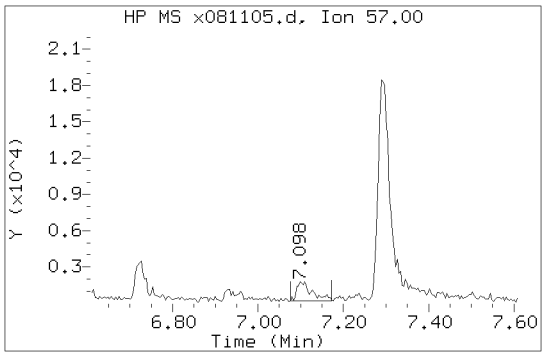
AFTER
MASS
58
AREA
10875
HEIGHT
4886
23-Aug-2023
11:11



BEFORE
MASS
100
AREA
3790
HEIGHT
2191
12-Aug-2023
22:50



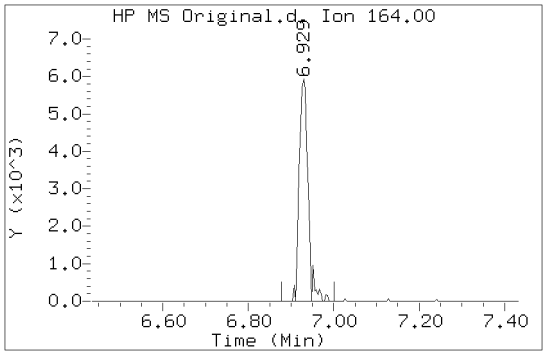
AFTER
MASS
57
AREA
4001
HEIGHT
1589
23-Aug-2023
11:11



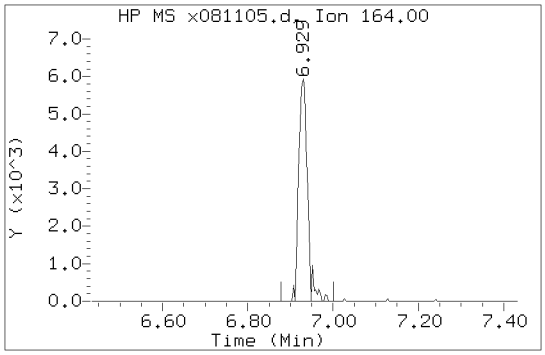
Tetrachloroethene (127-18-4)

Reason Code:

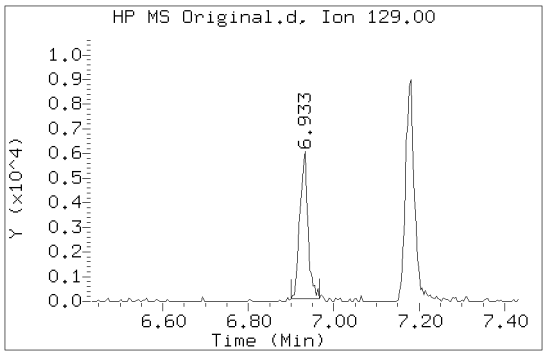
BEFORE
MASS
75
AREA
15088
HEIGHT
8125
12-Aug-2023
22:50



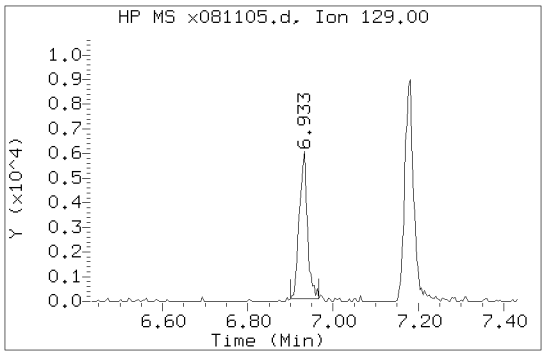
AFTER
MASS
164
AREA
8822
HEIGHT
5932
23-Aug-2023
11:11



BEFORE
MASS
77
AREA
5797
HEIGHT
3041
12-Aug-2023
22:50



AFTER
MASS
129
AREA
8163
HEIGHT
6005
23-Aug-2023
11:11



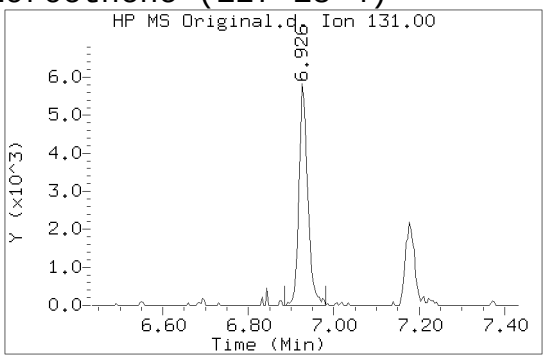
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Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

Tetrachloroethene (127-18-4)

Reason Code:

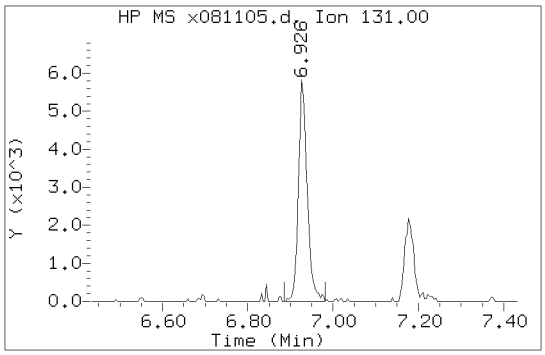
BEFORE

MASS
39
AREA
6117
HEIGHT
4449
12-Aug-2023
22:50



AFTER

MASS
131
AREA
8541
HEIGHT
5830
23-Aug-2023
11:11

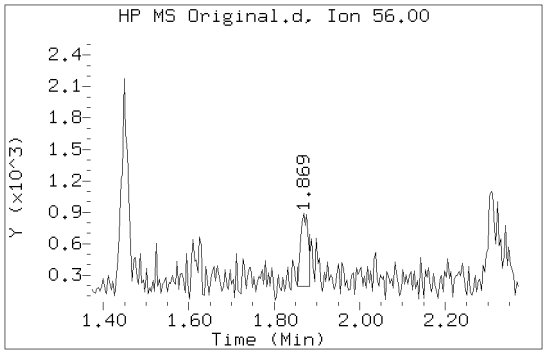


Acrolein (107-02-8)

Reason Code:

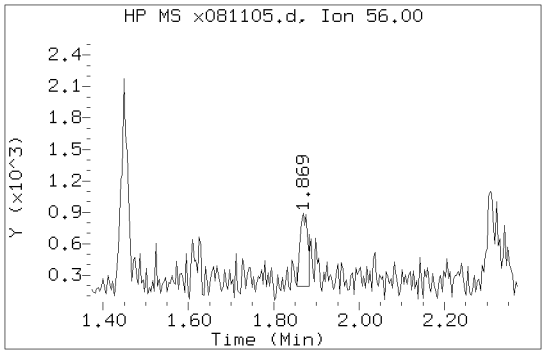
BEFORE

MASS
76
AREA
19127
HEIGHT
11607
12-Aug-2023
22:50



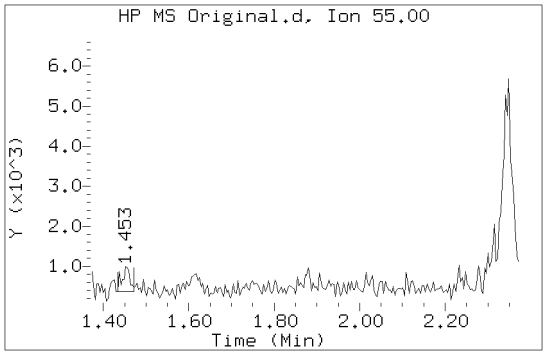
AFTER

MASS
56
AREA
887
HEIGHT
696
23-Aug-2023
11:11



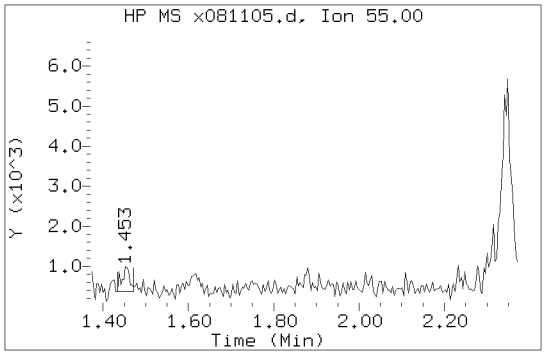
BEFORE

MASS
78
AREA
6539
HEIGHT
3990
12-Aug-2023
22:50



AFTER

MASS
55
AREA
792
HEIGHT
631
23-Aug-2023
11:11

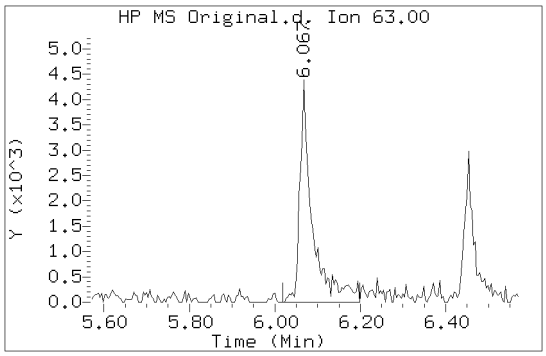


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

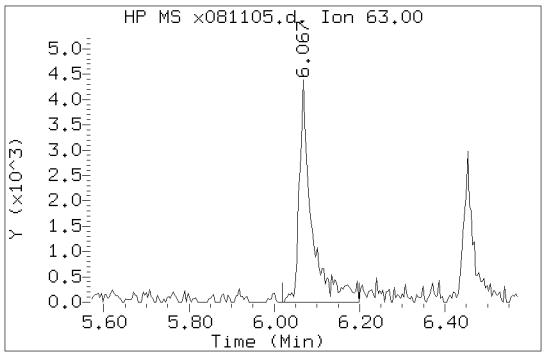
BEFORE

MASS
129
AREA
13173
HEIGHT
8997
12-Aug-2023
22:50



AFTER

MASS
63
AREA
9072
HEIGHT
4387
23-Aug-2023
11:11



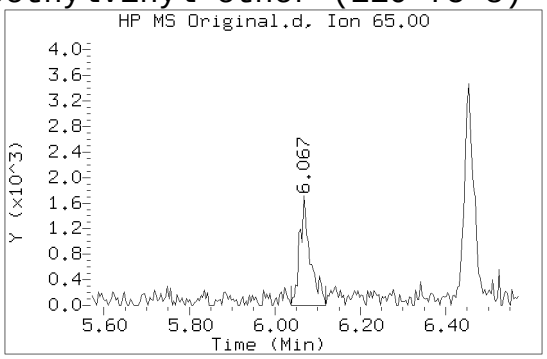
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Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

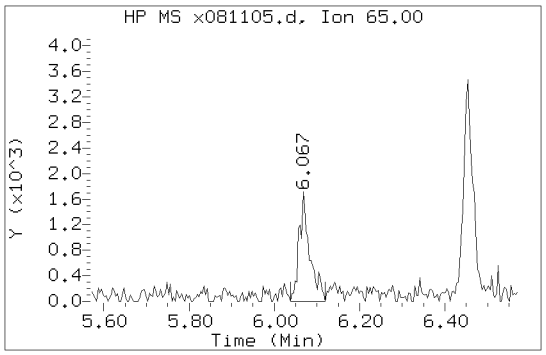
BEFORE

MASS
127
AREA
10054
HEIGHT
6939
12-Aug-2023
22:50



AFTER

MASS
65
AREA
3015
HEIGHT
1713
23-Aug-2023
11:11

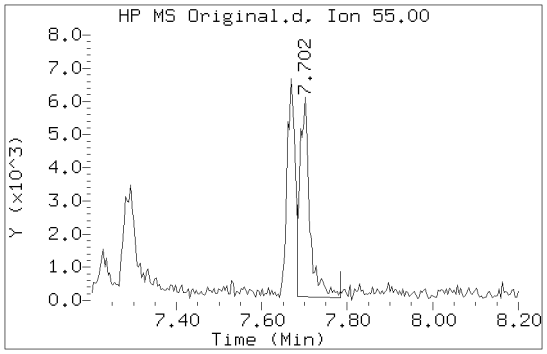


1-Chlorohexane (544-10-5)

Reason Code:

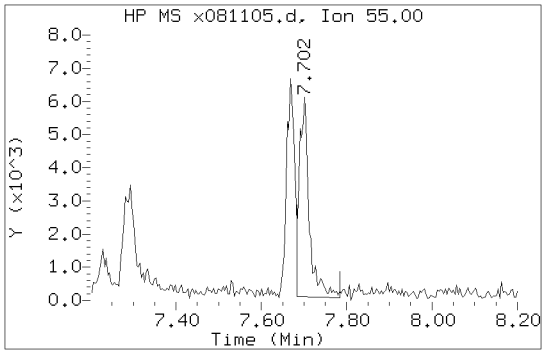
BEFORE

MASS
164
AREA
8822
HEIGHT
5932
12-Aug-2023
22:50



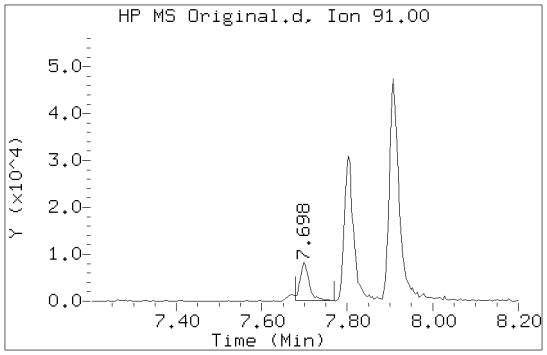
AFTER

MASS
55
AREA
10090
HEIGHT
6010
23-Aug-2023
11:11



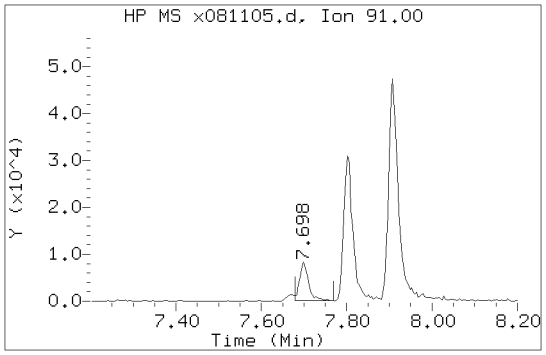
BEFORE

MASS
129
AREA
8163
HEIGHT
6005
12-Aug-2023
22:50



AFTER

MASS
91
AREA
12460
HEIGHT
8258
23-Aug-2023
11:11

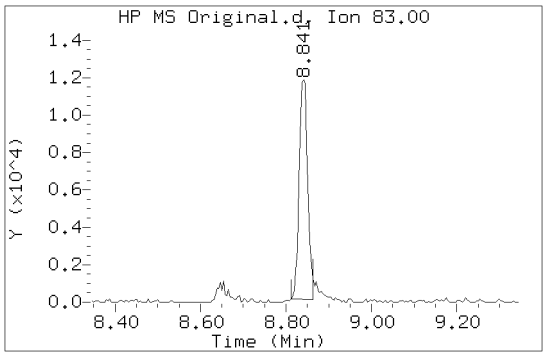


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

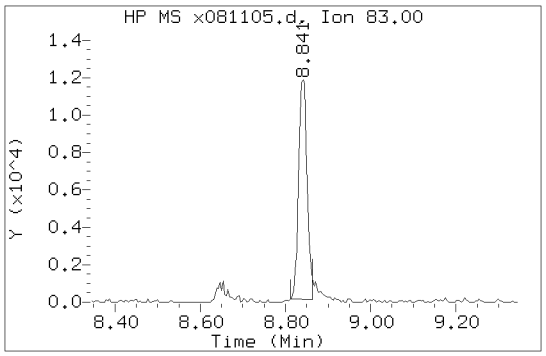
BEFORE

MASS
41
AREA
40111
HEIGHT
21479
12-Aug-2023
22:50



AFTER

MASS
83
AREA
16903
HEIGHT
11730
23-Aug-2023
11:11



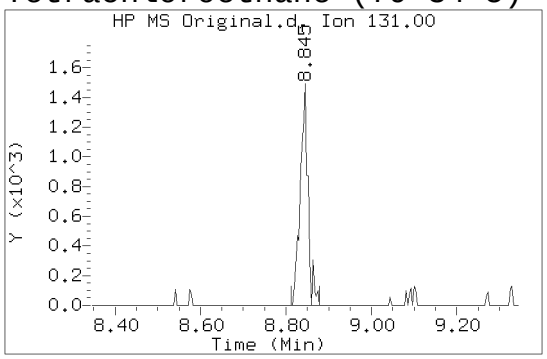
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InstruID : voa6.i
LabSampID : VSTD002

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

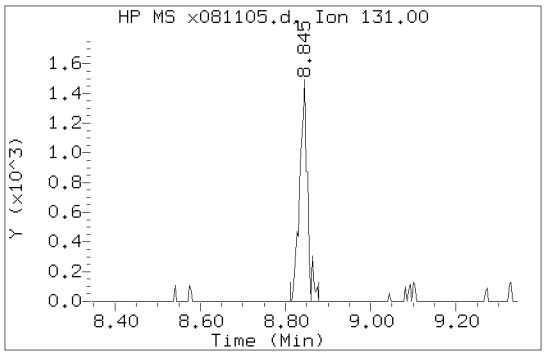
BEFORE

MASS
76
AREA
7130
HEIGHT
4327
12-Aug-2023
22:50



AFTER

MASS
131
AREA
1947
HEIGHT
1493
23-Aug-2023
11:11

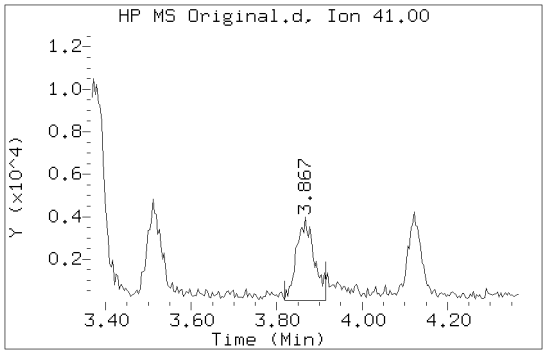


Methacrylonitrile (126-98-7)

Reason Code:

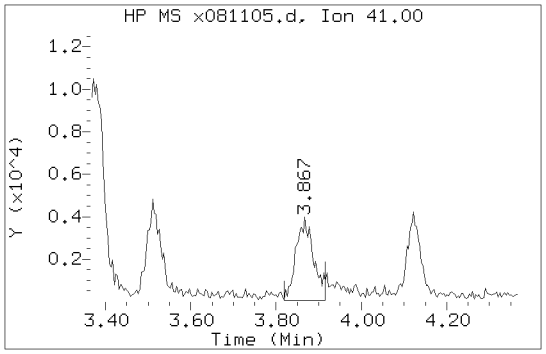
BEFORE

MASS
152
AREA
485300
HEIGHT
355847
12-Aug-2023
22:50



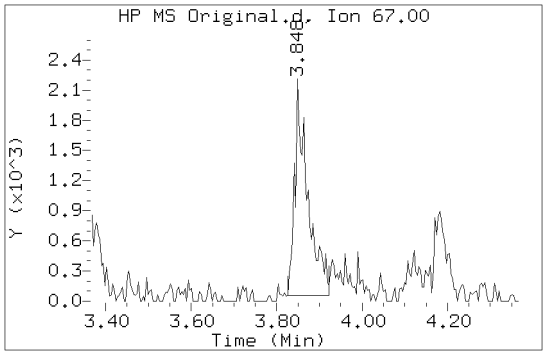
AFTER

MASS
41
AREA
11361
HEIGHT
3925
23-Aug-2023
11:11



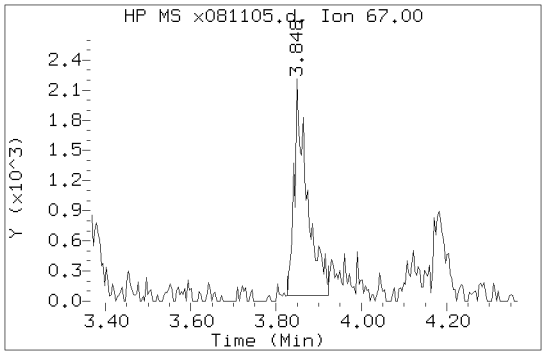
BEFORE

MASS
115
AREA
270794
HEIGHT
192256
12-Aug-2023
22:50



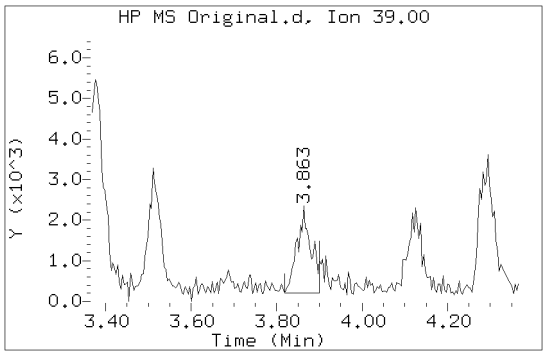
AFTER

MASS
67
AREA
4555
HEIGHT
2155
23-Aug-2023
11:11



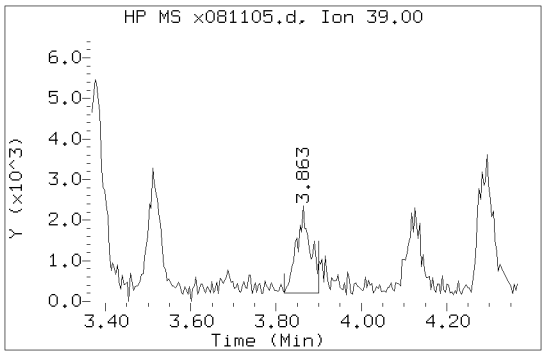
BEFORE

MASS
150
AREA
756792
HEIGHT
561071
12-Aug-2023
22:50



AFTER

MASS
39
AREA
5023
HEIGHT
2154
23-Aug-2023
11:11



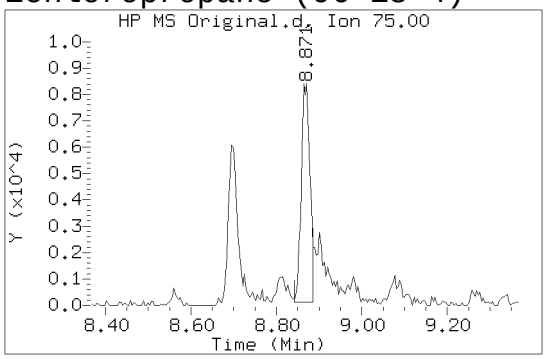
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Inj Date : 11-AUG-2023 12:55
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LabSampID : VSTD002

1,2,3-Trichloropropane (96-18-4)

Reason Code:

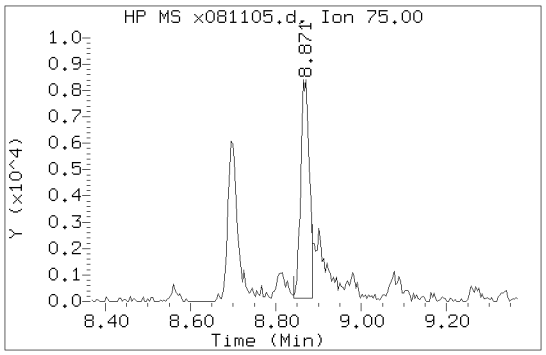
BEFORE

MASS
41
AREA
11361
HEIGHT
3925
12-Aug-2023
22:50



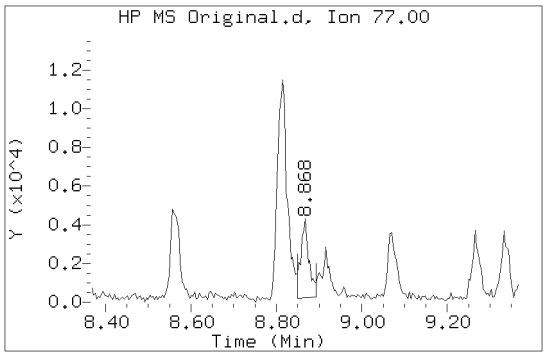
AFTER

MASS
75
AREA
12105
HEIGHT
8293
23-Aug-2023
11:11



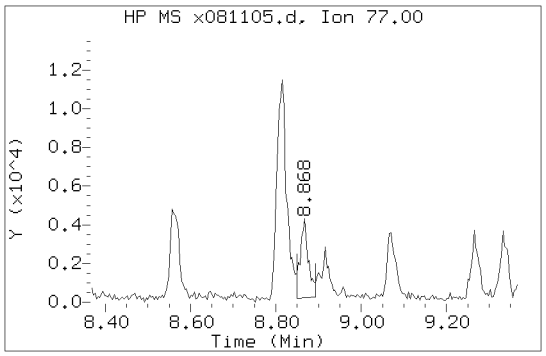
BEFORE

MASS
67
AREA
4555
HEIGHT
2155
12-Aug-2023
22:50



AFTER

MASS
77
AREA
5802
HEIGHT
4087
23-Aug-2023
11:11

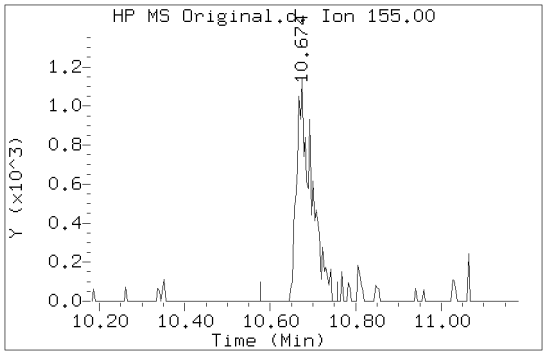


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

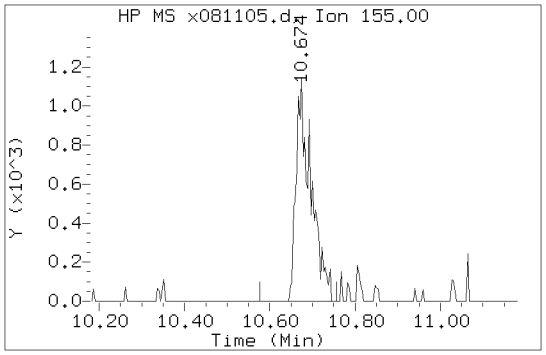
BEFORE

MASS
155
AREA
2798
HEIGHT
1139
12-Aug-2023
22:50



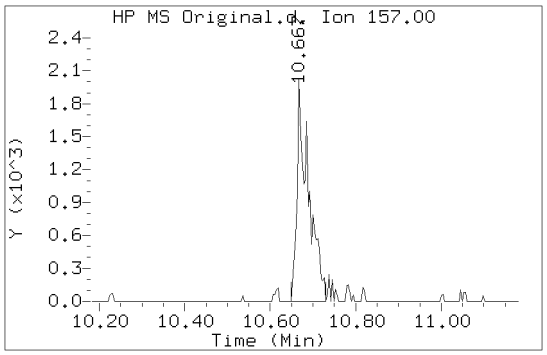
AFTER

MASS
155
AREA
2798
HEIGHT
1139
23-Aug-2023
11:11



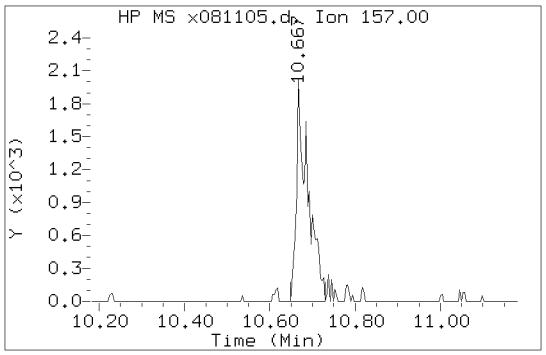
BEFORE

MASS
157
AREA
3784
HEIGHT
2019
12-Aug-2023
22:50



AFTER

MASS
157
AREA
3784
HEIGHT
2019
23-Aug-2023
11:11



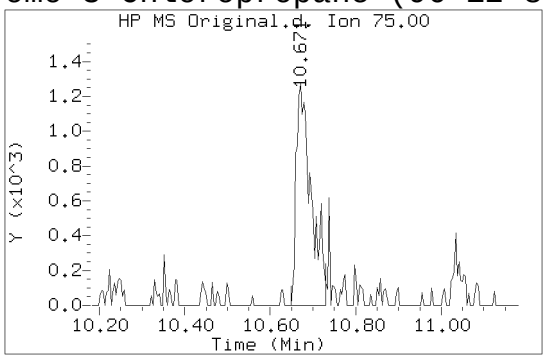
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InstruID : voa6.i
LabSampID : VSTD002

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

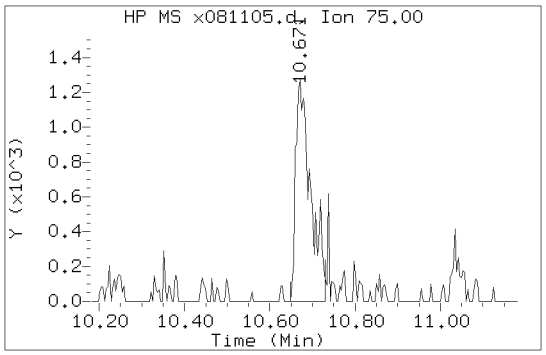
BEFORE

MASS
75
AREA
3145
HEIGHT
1273
12-Aug-2023
22:50



AFTER

MASS
75
AREA
3145
HEIGHT
1273
23-Aug-2023
11:11

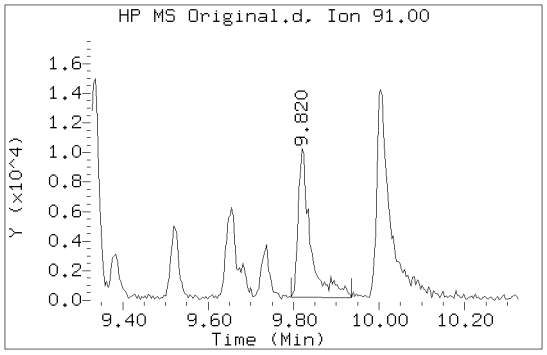


Benzyl Chloride (100-44-7)

Reason Code:

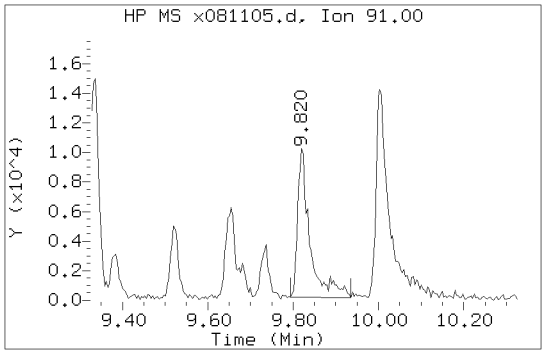
BEFORE

MASS
53
AREA
4155
HEIGHT
1625
12-Aug-2023
22:50



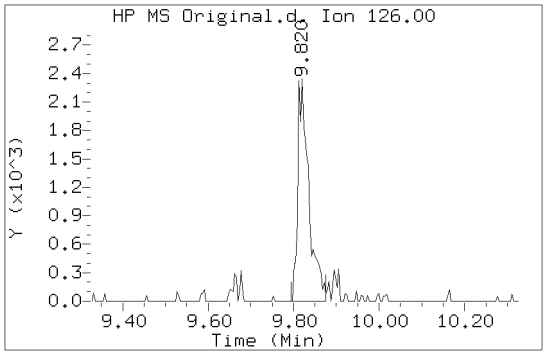
AFTER

MASS
91
AREA
20601
HEIGHT
10087
23-Aug-2023
11:11



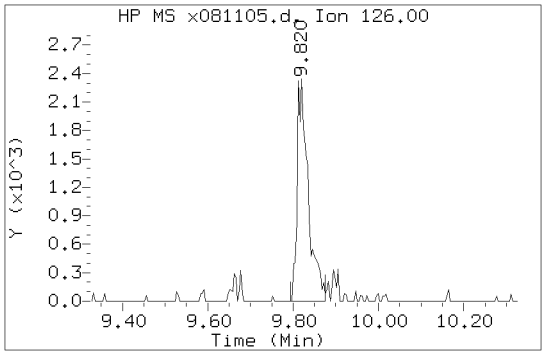
BEFORE

MASS
75
AREA
17234
HEIGHT
8251
12-Aug-2023
22:50



AFTER

MASS
126
AREA
4278
HEIGHT
2343
23-Aug-2023
11:11

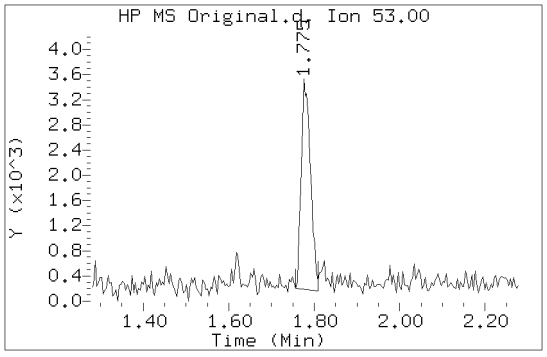


Chloroprene (126-99-8)

Reason Code:

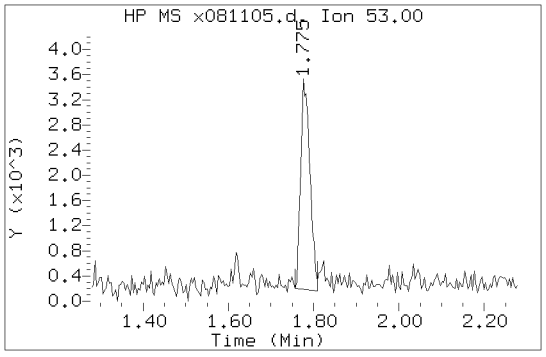
BEFORE

MASS
43
AREA
13837
HEIGHT
4173
12-Aug-2023
22:50



AFTER

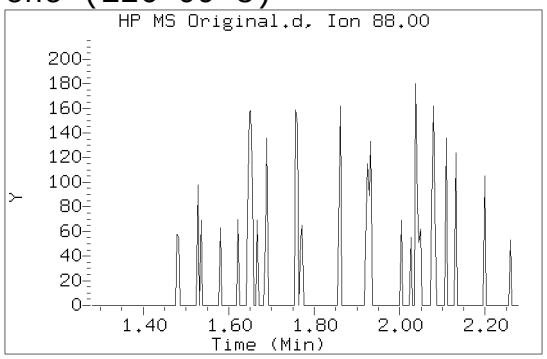
MASS
53
AREA
5152
HEIGHT
3336
23-Aug-2023
11:11



Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

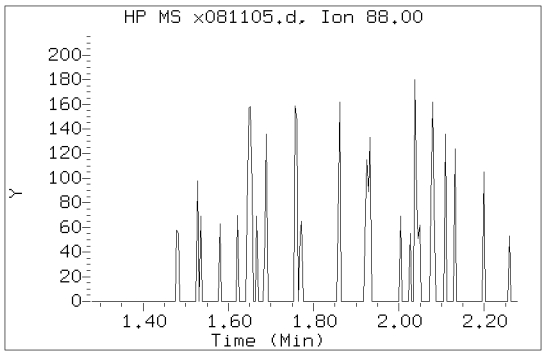
Chloroprene (126-99-8)

BEFORE
MASS
61
AREA
724
HEIGHT
430
12-Aug-2023
22:50



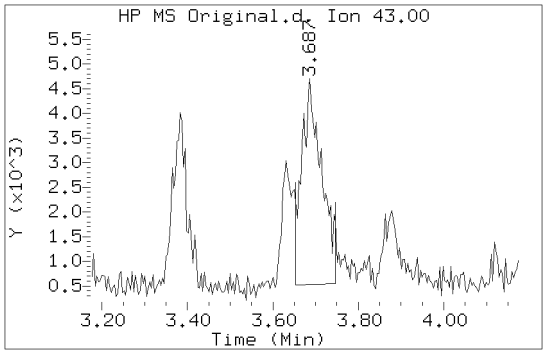
Reason Code:

AFTER
MASS
88
AREA
0
HEIGHT
0
23-Aug-2023
11:11



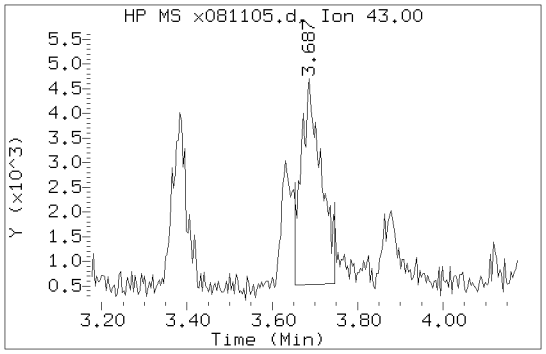
Ethyl Acetate (141-78-6)

BEFORE
MASS
55
AREA
11619
HEIGHT
2443
12-Aug-2023
22:50

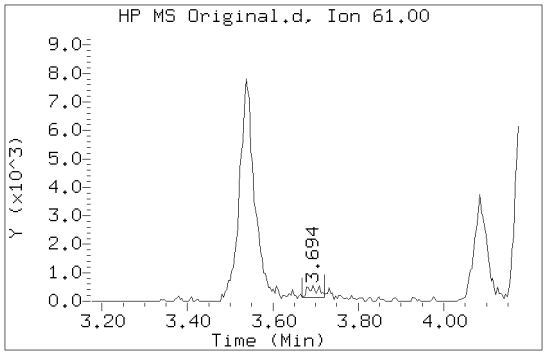


Reason Code:

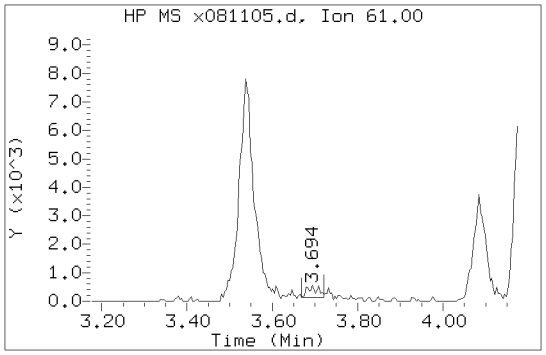
AFTER
MASS
43
AREA
13837
HEIGHT
4173
23-Aug-2023
11:11



BEFORE
MASS
85
AREA
1393
HEIGHT
703
12-Aug-2023
22:50

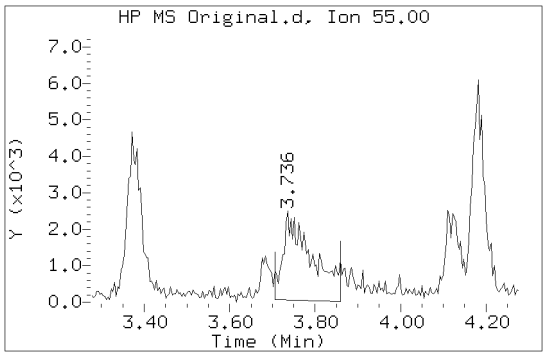


AFTER
MASS
61
AREA
724
HEIGHT
430
23-Aug-2023
11:11



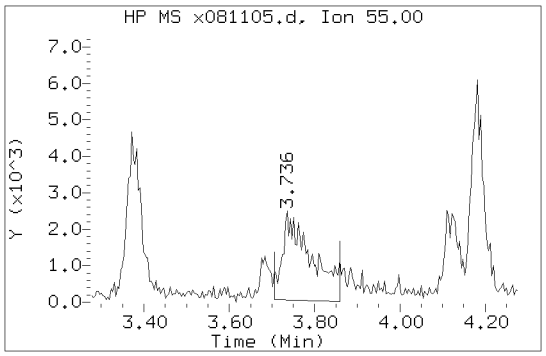
Methyl Acrylate (96-33-3)

BEFORE
MASS
56
AREA
5108
HEIGHT
2438
12-Aug-2023
22:50



Reason Code:

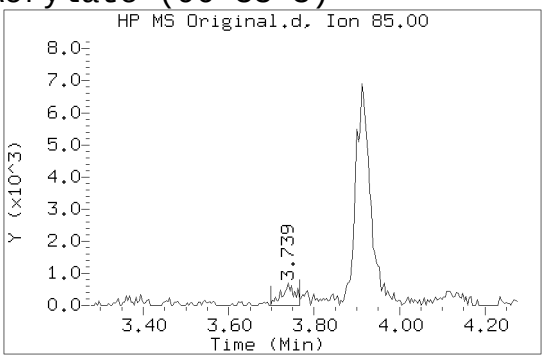
AFTER
MASS
55
AREA
11619
HEIGHT
2443
23-Aug-2023
11:11



Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

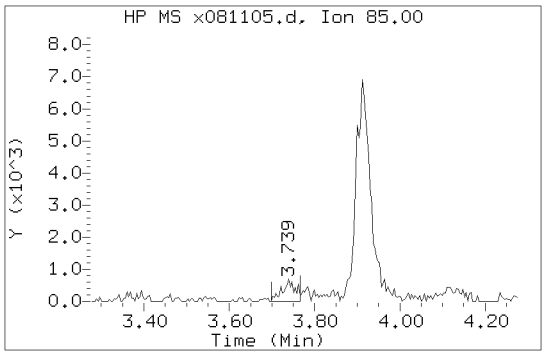
Methyl Acrylate (96-33-3)

BEFORE
MASS
41
AREA
9405
HEIGHT
4564
12-Aug-2023
22:50



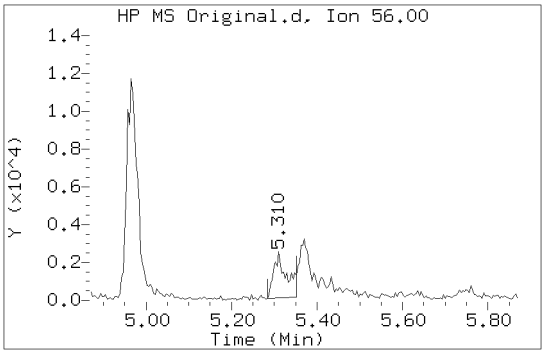
Reason Code:

AFTER
MASS
85
AREA
1393
HEIGHT
703
23-Aug-2023
11:11



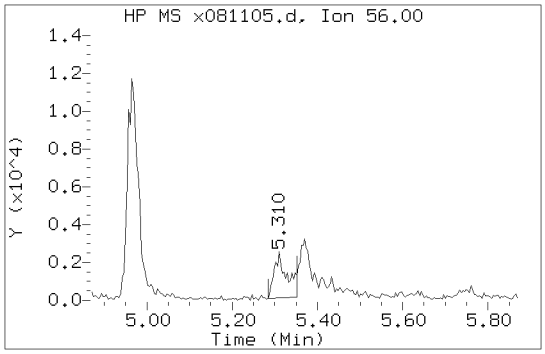
n-Butanol (71-36-3)

BEFORE
MASS
55
AREA
26539
HEIGHT
7374
12-Aug-2023
22:50

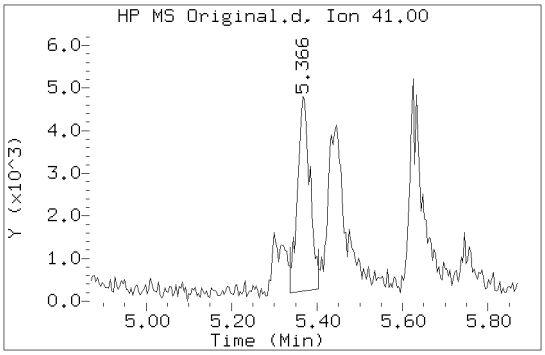


Reason Code:

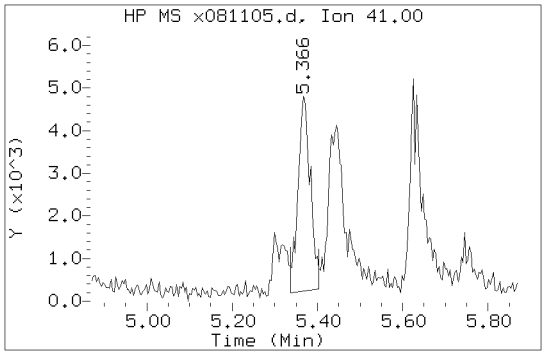
AFTER
MASS
56
AREA
5108
HEIGHT
2438
23-Aug-2023
11:11



BEFORE
MASS
99
AREA
657
HEIGHT
611
12-Aug-2023
22:50

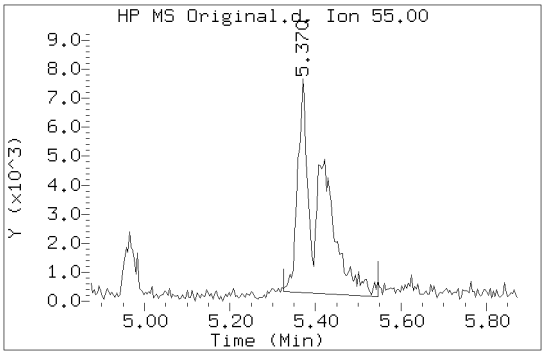


AFTER
MASS
41
AREA
9405
HEIGHT
4564
23-Aug-2023
11:11



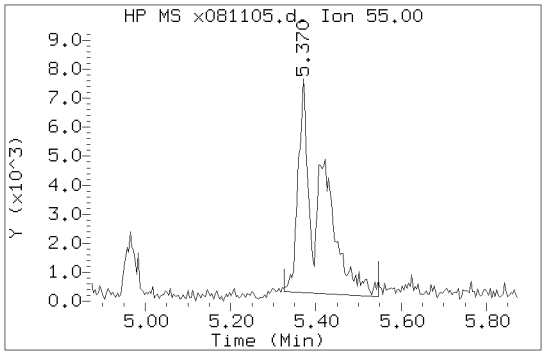
Ethyl Acrylate (140-88-5)

BEFORE
MASS
55
AREA
14092
HEIGHT
9296
12-Aug-2023
22:50



Reason Code:

AFTER
MASS
55
AREA
26539
HEIGHT
7374
23-Aug-2023
11:11

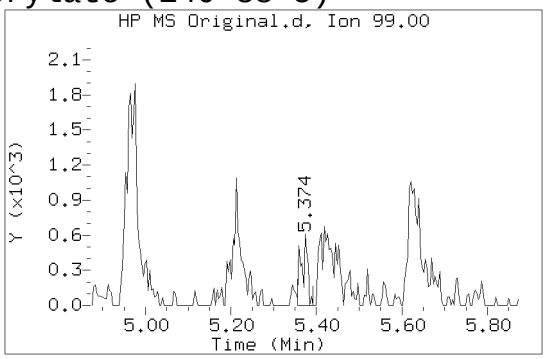


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

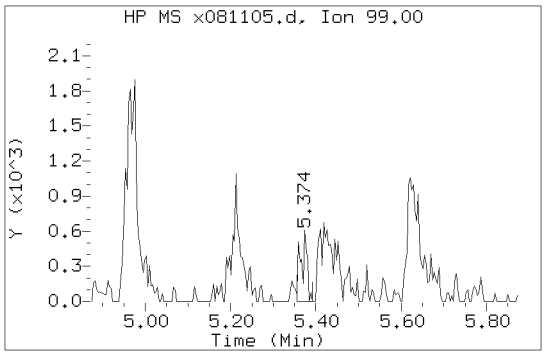
Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE
MASS
42
AREA
10856
HEIGHT
6272
12-Aug-2023
22:50



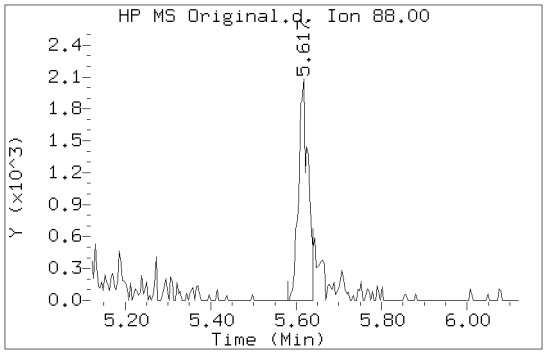
AFTER
MASS
99
AREA
657
HEIGHT
611
23-Aug-2023
11:11



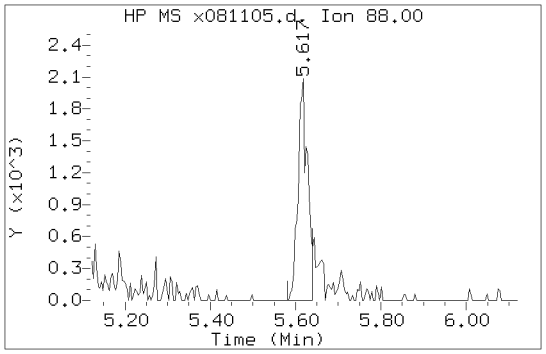
1,4-Dioxane ()

Reason Code:

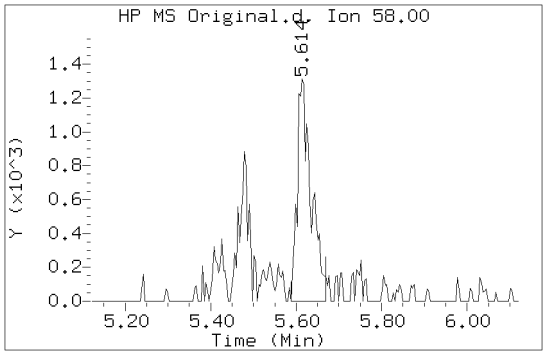
BEFORE
MASS
57
AREA
12200
HEIGHT
5884
12-Aug-2023
22:50



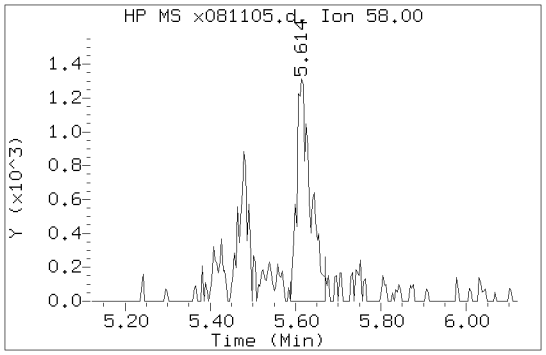
AFTER
MASS
88
AREA
3316
HEIGHT
2084
23-Aug-2023
11:11



BEFORE
MASS
41
AREA
8206
HEIGHT
4479
12-Aug-2023
22:50



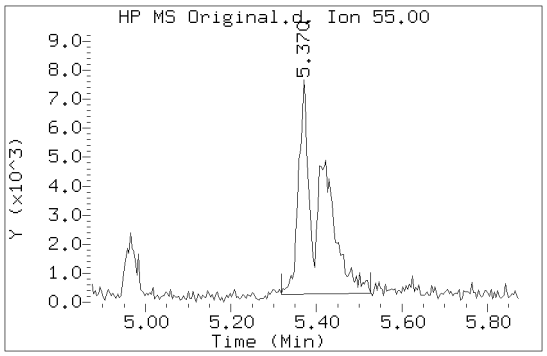
AFTER
MASS
58
AREA
3025
HEIGHT
1313
23-Aug-2023
11:11



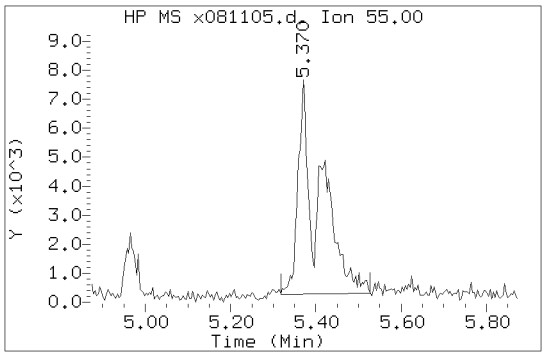
Methylcyclohexane (108-87-2)

Reason Code:

BEFORE
MASS
118
AREA
18299
HEIGHT
13043
12-Aug-2023
22:50



AFTER
MASS
55
AREA
25754
HEIGHT
7389
23-Aug-2023
11:11

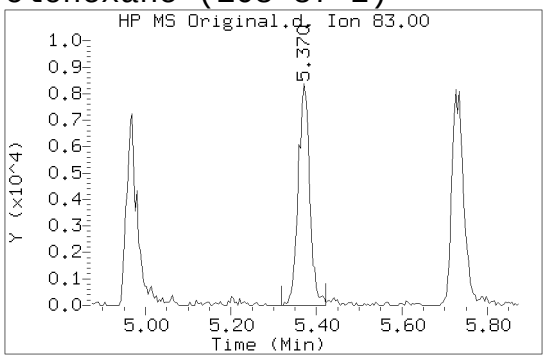


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

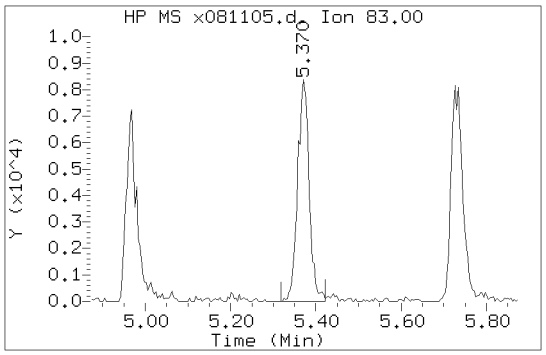
Methylcyclohexane (108-87-2)

Reason Code:

BEFORE
MASS
103
AREA
10176
HEIGHT
6202
12-Aug-2023
22:50



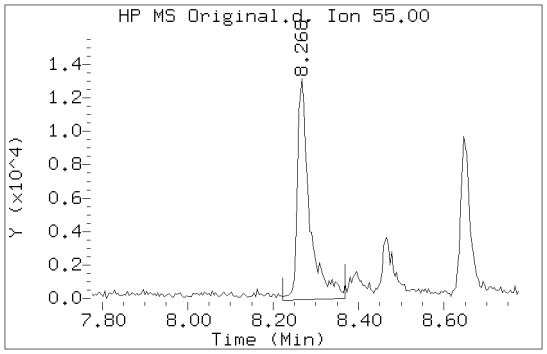
AFTER
MASS
83
AREA
16064
HEIGHT
8380
23-Aug-2023
11:11



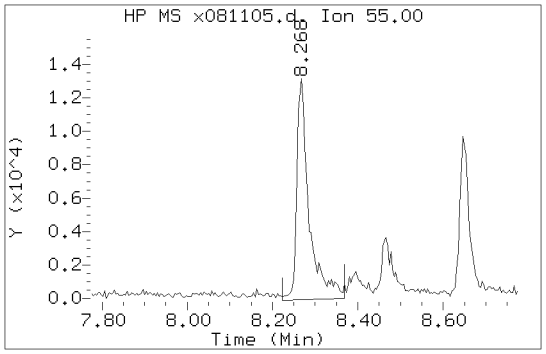
Butyl acrylate (141-32-2)

Reason Code:

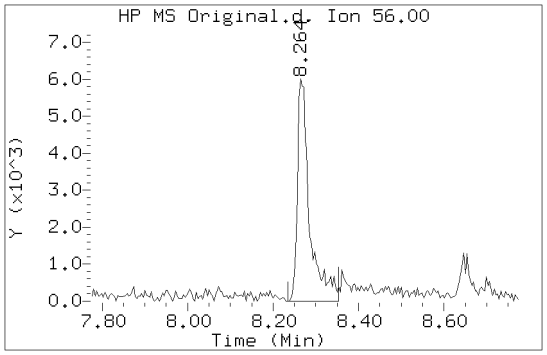
BEFORE
MASS
44
AREA
7566
HEIGHT
5442
12-Aug-2023
22:50



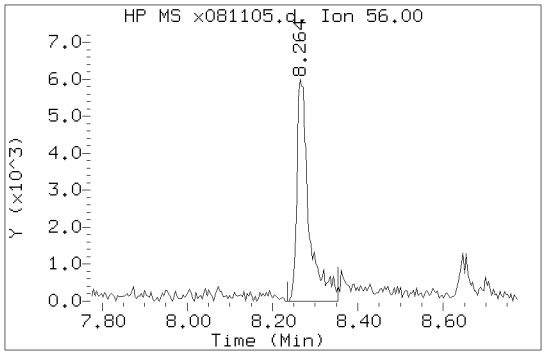
AFTER
MASS
55
AREA
27159
HEIGHT
13237
23-Aug-2023
11:11



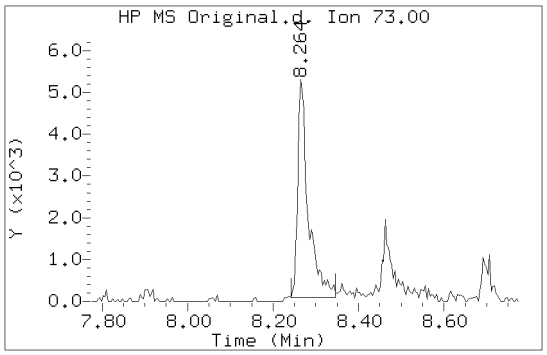
BEFORE
MASS
43
AREA
3136
HEIGHT
3062
12-Aug-2023
22:50



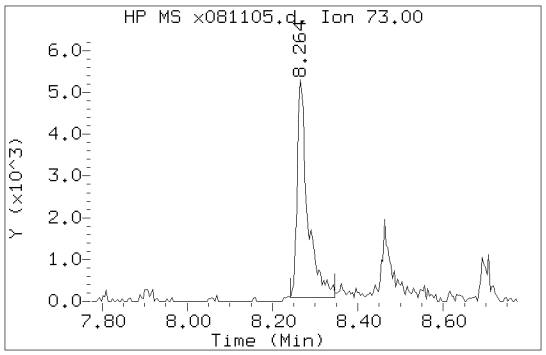
AFTER
MASS
56
AREA
12093
HEIGHT
6013
23-Aug-2023
11:11



BEFORE
MASS
42
AREA
1919
HEIGHT
1438
12-Aug-2023
22:50



AFTER
MASS
73
AREA
9106
HEIGHT
5215
23-Aug-2023
11:11

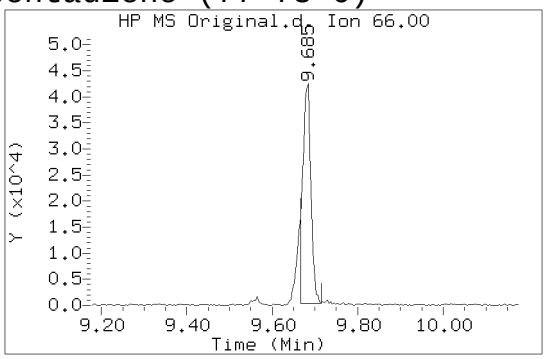


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081105.d
Inj Date : 11-AUG-2023 12:55
InstruID : voa6.i
LabSampID : VSTD002

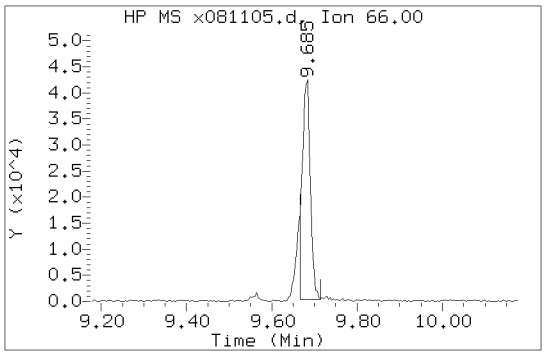
Dicyclopentadiene (77-73-6)

Reason Code:

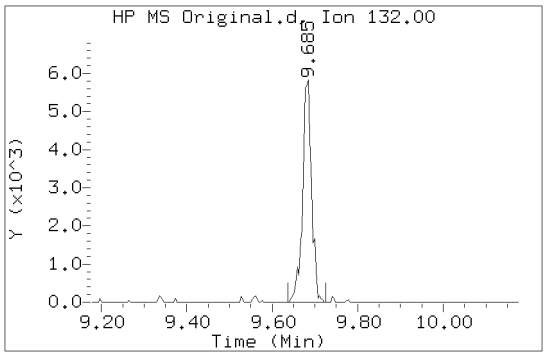
BEFORE
MASS
41
AREA
1584
HEIGHT
1603
12-Aug-2023
22:50



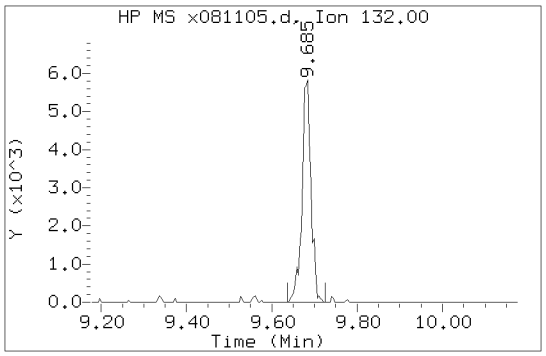
AFTER
MASS
66
AREA
58027
HEIGHT
42184
23-Aug-2023
11:11



BEFORE
MASS
56
AREA
0
HEIGHT
0
12-Aug-2023
22:50



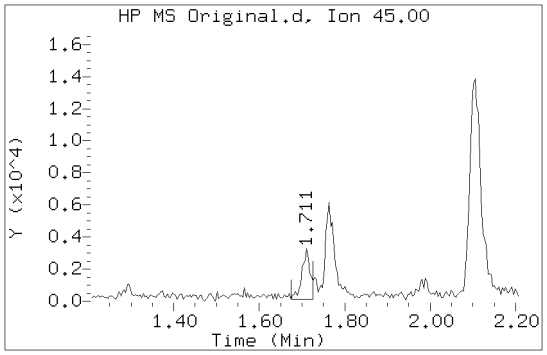
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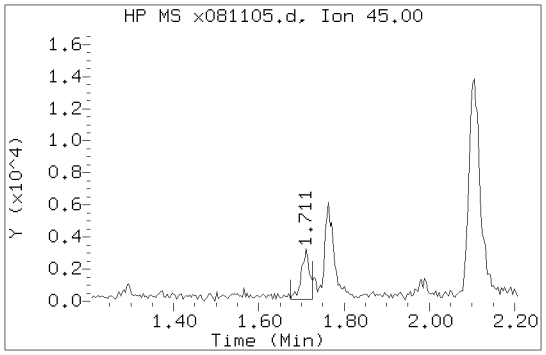
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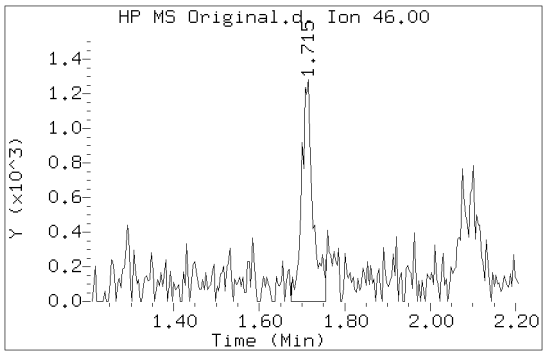
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22:50



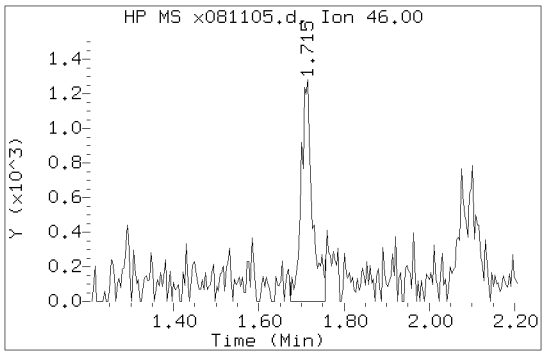
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23-Aug-2023
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AFTER
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23-Aug-2023
11:11

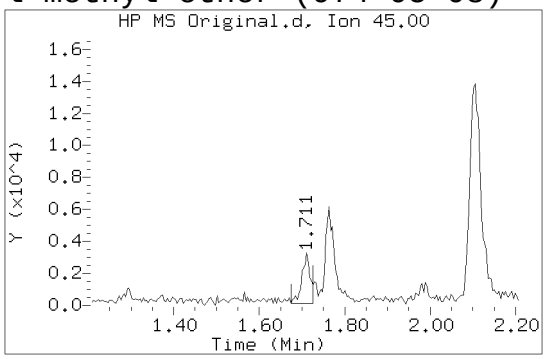


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LabSampID : VSTD002

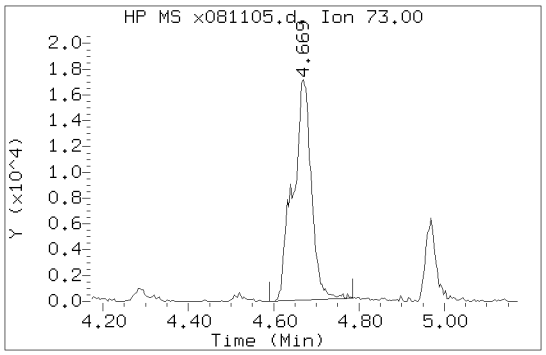
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Reason Code:

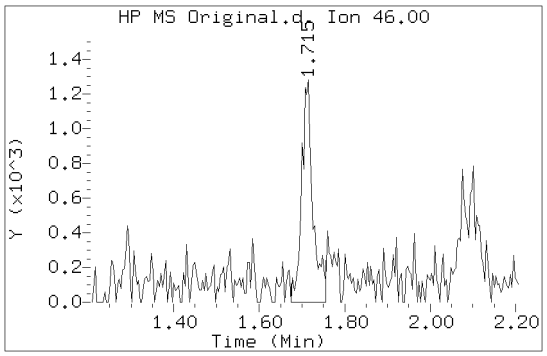
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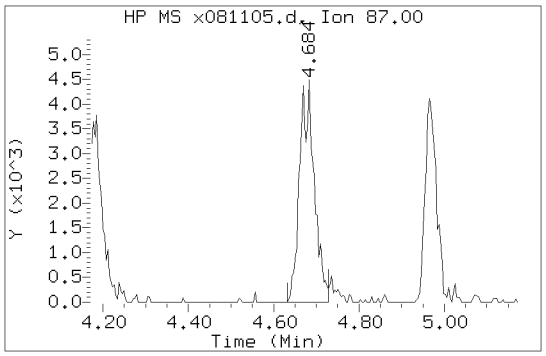
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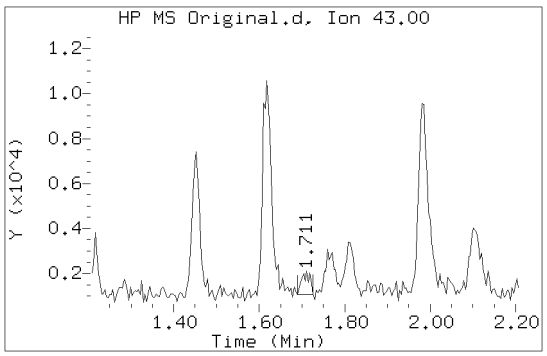
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22:50



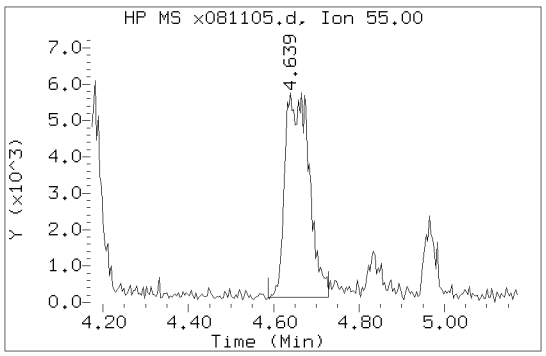
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BEFORE
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12-Aug-2023
22:50



AFTER
MASS
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AREA
22322
HEIGHT
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23-Aug-2023
11:11



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081106.D Page 1
Report Date: 23-Aug-2023 11:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081106.D
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Inj Date : 11-AUG-2023 13:15
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 13:15 Cal File: X081106.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	594420	50.0000	
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	27672	5.00000	5.67
3	Chloromethane	50	1.085	1.085	(0.260)	27627	5.00000	4.77
4	Propionitrile	54	3.671	3.671	(0.878)	40524	50.0000	48.95(a)
5	Vinyl Chloride	62	1.149	1.149	(0.275)	35042	5.00000	4.91
6	Bromomethane	94	1.347	1.347	(0.322)	18184	5.00000	4.73(M)
7	Chloroethane	64	1.407	1.407	(0.337)	24167	5.00000	5.17(M)
8	Trichlorofluoromethane	101	1.568	1.568	(0.375)	51010	5.00000	5.02
9	Acrolein	56	1.872	1.872	(0.448)	2218	10.0000	8.95(aH)
10	Acetone	43	1.981	1.981	(0.474)	31794	10.0000	9.87
11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	29363	5.00000	5.11
12	Isobutyl Alcohol	43	4.691	4.691	(1.122)	90165	100.000	96.76(a)
13	Acetonitrile	39	2.206	2.206	(0.528)	47382	50.0000	51.68(a)
14	Allyl Chloride	41	2.210	2.210	(0.528)	96037	5.00000	5.30(a)
15	Iodomethane	142	2.033	2.033	(0.486)	31977	10.0000	10.16(M)
16	Acrylonitrile	53	2.543	2.543	(0.608)	29949	10.0000	10.83
17	Methylene Chloride	84	2.311	2.311	(0.553)	42500	5.00000	5.90
18	Methyl tert-butyl ether	73	2.543	2.543	(0.608)	105371	5.00000	5.14
19	Carbon Disulfide	76	2.075	2.075	(0.496)	175609	10.0000	10.30
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	34956	5.00000	5.24
21	Vinyl Acetate	43	3.008	3.008	(0.719)	191764	10.0000	9.71

22 1,1-Dichloroethane	63	2.926	2.926 (0.700)	63406	5.00000	5.04
23 Chloroprene	53	1.778	1.778 (0.425)	12759	5.00000	5.07(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	3.608	3.608	(0.863)	21612	10.0000	9.82(MH)
	25 Methacrylonitrile	41	3.859	3.859	(0.923)	30293	5.00000	5.10(a)
	26 2,2-Dichloropropane	77	3.514	3.514	(0.840)	43583	5.00000	5.15
	27 cis-1,2-Dichloroethene	96	3.537	3.537	(0.846)	32964	5.00000	5.14
	28 Chloroform	83	3.908	3.908	(0.935)	57451	5.00000	5.21
	29 Bromochloromethane	128	3.803	3.803	(0.909)	18252	5.00000	5.01
$	30 Dibromofluoromethane	113	4.106	4.106	(0.982)	29825	5.00000	4.72
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	45624	5.00000	5.16
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	34061	5.00000	4.62(H)
	33 1,2-Dichloroethane	62	4.560	4.560	(0.918)	45033	5.00000	5.06
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	40297	5.00000	5.18(H)
$	35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.071)	36656	5.00000	5.05
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	935678	50.0000	
	37 Benzene	78	4.519	4.519	(0.910)	116227	5.00000	5.04
	38 Trichloroethene	130	5.208	5.208	(1.049)	33156	5.00000	5.00
	39 Bromodichloromethane	83	5.729	5.729	(1.154)	42720	5.00000	4.97(a)
	40 Methyl Methacrylate	41	5.621	5.621	(1.344)	27027	5.00000	4.94(a)
	41 2-Chloroethylvinyl ether	63	6.059	6.059	(1.220)	20647	10.0000	9.40(aM)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	31931	5.00000	4.91(a)
	43 2-Nitropropane	43	5.977	5.977	(1.429)	10964	5.00000	5.02
	44 Dibromomethane	93	5.557	5.557	(1.119)	22599	5.00000	5.08
	45 4-Methyl-2-Pentanone	43	6.333	6.333	(0.826)	61249	10.0000	9.61
	46 cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	45506	5.00000	4.63(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	887704	50.0000	
$	48 Toluene-d8	98	6.389	6.389	(0.833)	111261	5.00000	5.32
	49 Ethyl Methacrylate	69	6.790	6.790	(1.368)	39966	5.00000	4.66(aH)
	50 Toluene	91	6.449	6.449	(0.841)	123023	5.00000	4.97(a)
	51 trans-1,3-Dichloropropene	75	6.689	6.689	(1.347)	37517	5.00000	4.55(a)
	52 2-Hexanone	43	7.094	7.094	(0.925)	42251	10.0000	9.88
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	25267	5.00000	5.12
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	50474	5.00000	5.00
	55 Dibromochloromethane	129	7.176	7.176	(0.936)	33839	5.00000	4.75(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	25538	5.00000	4.96(a)
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	30653	5.00000	5.08
	58 1-Chlorohexane	55	7.698	7.698	(1.550)	25603	5.00000	4.72(aH)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	84566	5.00000	4.96(a)
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	32012	5.00000	4.86(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	42883	5.00000	5.09
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	106798	10.0000	9.91(a)
	63 o-Xylene	106	8.241	8.241	(1.075)	50948	5.00000	4.80(a)
	64 Styrene	104	8.264	8.264	(1.078)	87288	5.00000	4.94(a)
	66 Bromoform	173	8.414	8.414	(1.097)	21130	5.00000	4.40(a)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	126049	5.00000	4.78(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	39255	5.00000	4.84(a)
$	69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	49251	5.00000	5.86
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	498083	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	29259	5.00000	4.90(a)
	72 trans-1,4-Dichloro-2-butene	53	8.893	8.893	(1.160)	10412	5.00000	4.65(aH)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	141584	5.00000	4.80(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	40340	5.00000	5.06
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	102042	5.00000	4.73(a)
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	94293	5.00000	5.00

77	4-Chlorotoluene	91	9.073	9.073 (0.939)	105626	5.00000	4.86(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	90504	5.00000	4.90(a)

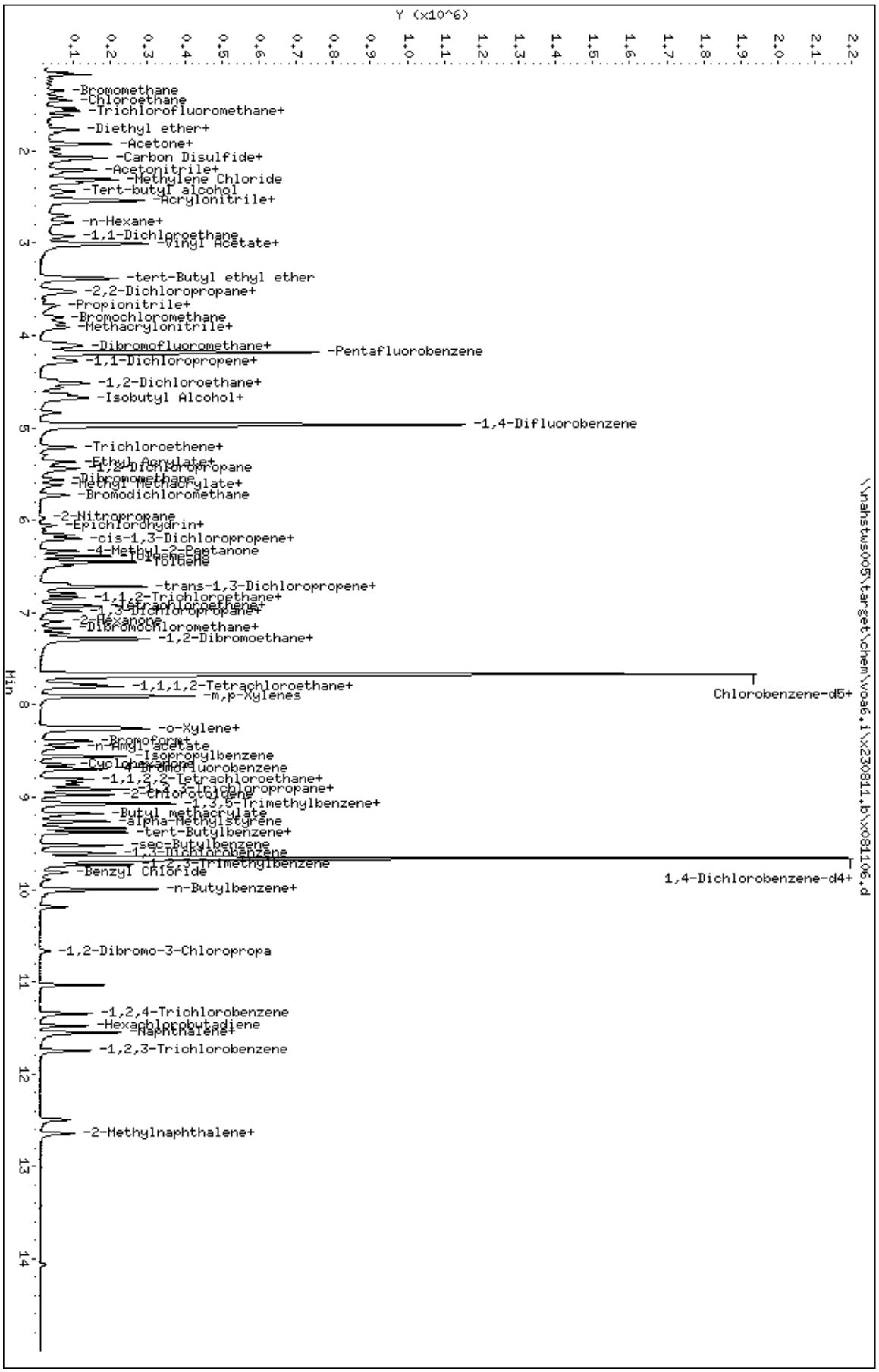
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	106167	5.00000	4.78(a)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	122941	5.00000	4.86(a)
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	107020	5.00000	4.68(a)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	69705	5.00000	4.91(a)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	77053	5.00000	5.07
86	Benzyl Chloride	91	9.812	9.812	(1.280)	49451	5.00000	3.89(a)
87	n-Butylbenzene	91	9.999	9.999	(1.035)	92255	5.00000	5.99
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	70556	5.00000	4.92(a)
89	1,2-Dibromo-3-Chloropropane	155	10.663	10.663	(1.104)	6669	5.00000	4.86(a)
90	1,2,4-Trichlorobenzene	180	11.341	11.341	(1.174)	44585	5.00000	4.70(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	18865	5.00000	5.42
92	Naphthalene	128	11.551	11.551	(1.196)	109297	5.00000	4.62(a)
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	43073	5.00000	4.66(a)
146	Methyl acetate	43	2.240	2.240	(0.536)	26540	5.00000	4.96(a)
138	Freon TF	101	1.921	1.921	(0.459)	27608	5.00000	5.95
141	Cyclohexane	56	4.121	4.121	(0.986)	36420	5.00000	6.24(H)
142	Tetrahydrofuran	42	3.863	3.863	(0.924)	12547	10.0000	10.82
147	Methylcyclohexane	55	5.400	5.400	(1.088)	65554	5.00000	4.66(aM)
135	1,4-Dioxane	88	5.610	5.610	(1.342)	7471	100.000	98.88
132	n-Butanol	56	5.287	5.287	(1.264)	9555	100.000	124.54(aM)
131	Methyl Acrylate	55	3.724	3.724	(0.891)	30863	5.00000	5.25(M)
133	Ethyl Acrylate	55	5.400	5.400	(1.291)	65654	5.00000	4.66(M)
136	n-Hexane	57	2.779	2.779	(0.665)	32239	5.00000	5.64
139	Diethyl ether	59	1.767	1.767	(0.423)	27668	5.00000	5.27
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	82288	100.000	103.36
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	46061	100.000	98.92
156	Diisopropyl ether	45	3.004	3.004	(0.719)	108028	5.00000	5.04
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	108618	5.00000	4.69(a)
167	Ethanol	45	1.707	1.707	(0.408)	8818	100.000	103.27
172	tert-Butyl formate	59	4.631	4.631	(1.108)	59001	10.0000	9.93
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	88114	100.000	105.05
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	121219	5.00000	4.99(aM)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	97829	5.00000	5.08
176	tert-Amyl alcohol	59	4.631	4.631	(1.108)	59001	100.000	99.55
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	194771	100.000	104.86
180	1-Methylnaphthalene	142	12.642	12.642	(1.308)	46549	5.00000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	29685	5.00000	4.84(a)
152	Amyl alcohol	42	6.967	6.967	(0.909)	4083	100.000	55.56
158	Dichlorofluoromethane	67	1.539	1.539	(0.368)	53341	5.00000	5.20
159	Propylene oxide	43	1.808	1.808	(0.433)	9456	10.0000	9.85
161	3-Methyl-1-butanol	55	6.925	6.925	(0.903)	12975	100.000	84.52
162	Butyl acrylate	55	8.260	8.260	(1.077)	66548	5.00000	4.60(a)
163	Butyl methacrylate	41	9.174	9.174	(0.950)	49950	5.00000	4.94(a)
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	137259	5.00000	5.18
182	Epichlorohydrin	57	6.108	6.108	(1.230)	11128	20.0000	19.44
M 94	1,2-Dichloroethylene (total)	96				67920	10.0000	10.38
M 95	Xylenes (total)	106				157746	15.0000	14.72(a)
130	Ethyl Acetate	43	3.679	3.679	(0.880)	35083	5.00000	5.14(M)
134	Cyclohexanone	55	8.646	8.646	(0.895)	32884	100.000	103.67(a)
185	Isoprene	39	1.778	1.778	(0.425)	11056	5.00000	4.46(a)
188	Isopropyl acetate	43	4.691	4.691	(0.945)	96528	5.00000	5.10
187	n-Amyl acetate	43	8.455	8.455	(1.103)	64999	5.00000	4.95(a)

189 n-Butyl acetate	43	7.221	7.221 (0.942)	50195	5.00000	4.92(aH)
150 Allyl alcohol	57	2.779	2.779 (0.665)	32239	100.000	114.55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.216	1.216	(0.291)	13449	20.0000	14.76(M)
195 Methyl Amyl Ketone	43	8.387	8.387	(1.094)	75828	5.00000	4.90(a)
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	53250	5.00000	4.55(a)
202 Isobutylene	41	1.246	1.246	(0.298)	3970	5.00000	5.09(M)
205 2-Ethylhexyl Acrylate	55	11.555	11.555	(1.196)	43209	5.00000	4.24(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081106.d
Date : 11-AUG-2023 13:15
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

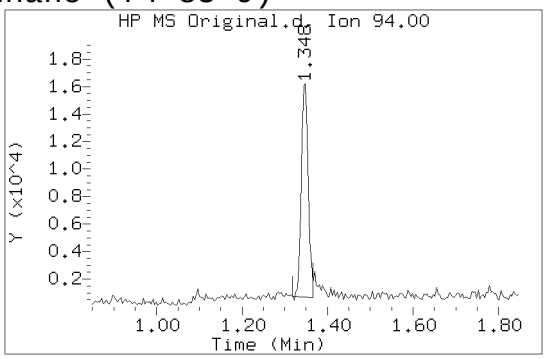
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Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081106.d
Inj Date : 11-AUG-2023 13:15
InstruID : voa6.i
LabSampID : VSTD005

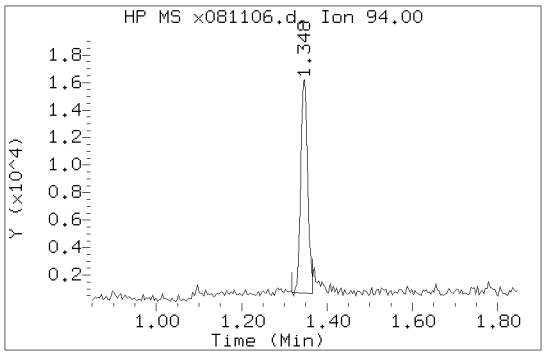
Bromomethane (74-83-9)

Reason Code:

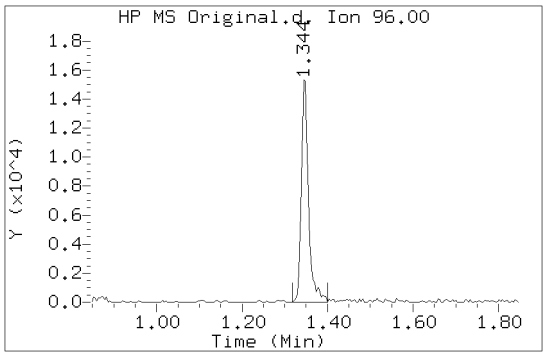
BEFORE
MASS
50
AREA
27627
HEIGHT
28997
12-Aug-2023
22:49



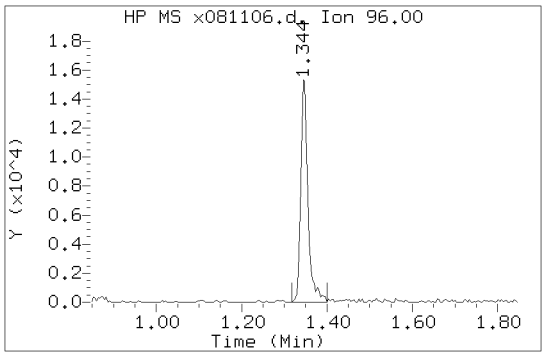
AFTER
MASS
94
AREA
18184
HEIGHT
15506
23-Aug-2023
11:11



BEFORE
MASS
52
AREA
8704
HEIGHT
10079
12-Aug-2023
22:49



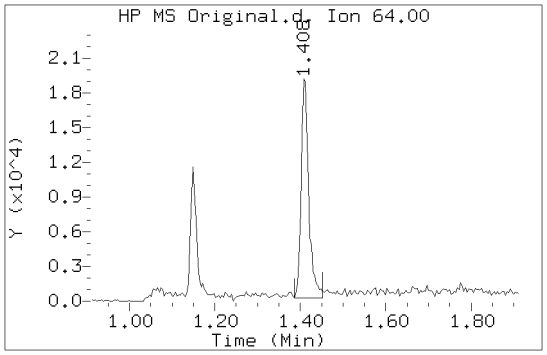
AFTER
MASS
96
AREA
18600
HEIGHT
15316
23-Aug-2023
11:11



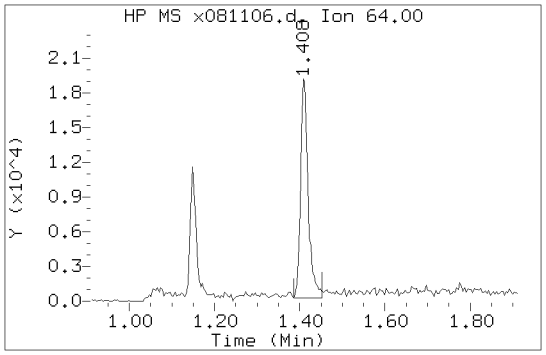
Chloroethane (75-00-3)

Reason Code:

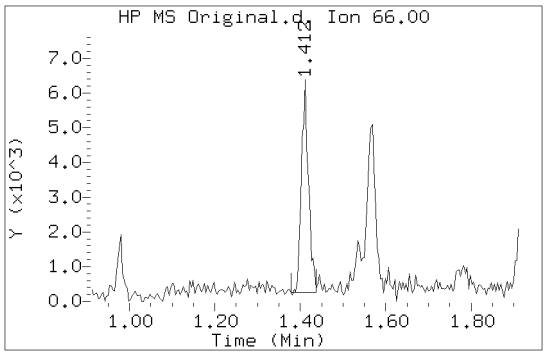
BEFORE
MASS
62
AREA
35042
HEIGHT
33294
12-Aug-2023
22:49



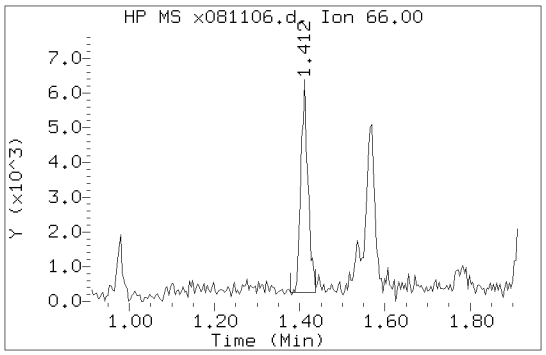
AFTER
MASS
64
AREA
24167
HEIGHT
18924
23-Aug-2023
11:11



BEFORE
MASS
64
AREA
11001
HEIGHT
11242
12-Aug-2023
22:49



AFTER
MASS
66
AREA
7327
HEIGHT
6136
23-Aug-2023
11:11

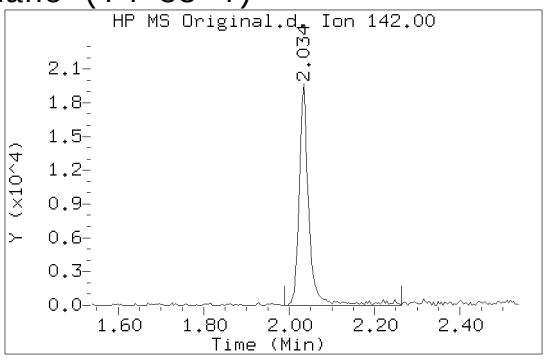


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Inj Date : 11-AUG-2023 13:15
InstruID : voa6.i
LabSampID : VSTD005

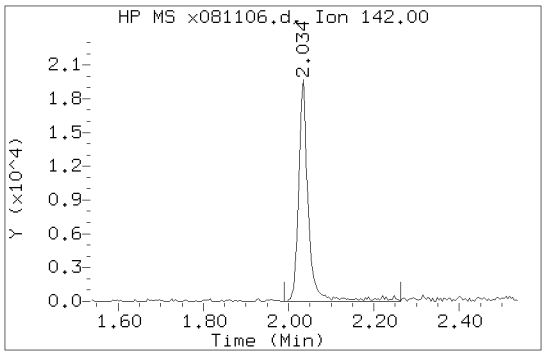
Iodomethane (74-88-4)

Reason Code:

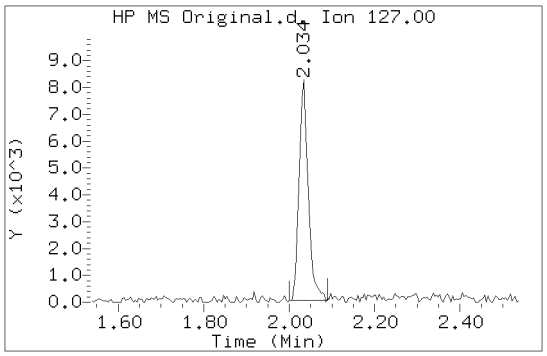
BEFORE
MASS
56
AREA
2218
HEIGHT
1345
12-Aug-2023
22:49



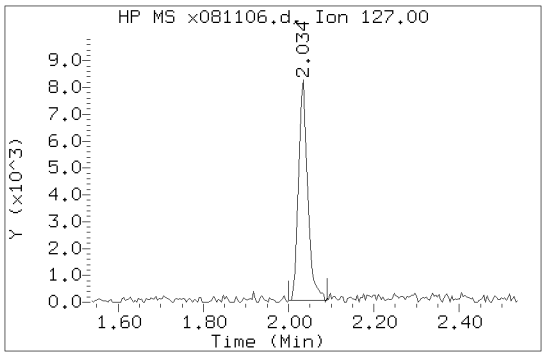
AFTER
MASS
142
AREA
31977
HEIGHT
19688
23-Aug-2023
11:11



BEFORE
MASS
55
AREA
1598
HEIGHT
948
12-Aug-2023
22:49



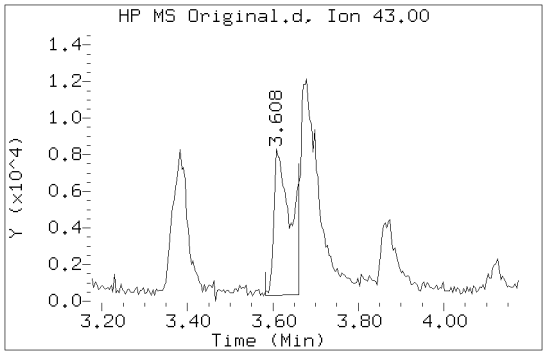
AFTER
MASS
127
AREA
12524
HEIGHT
8205
23-Aug-2023
11:11



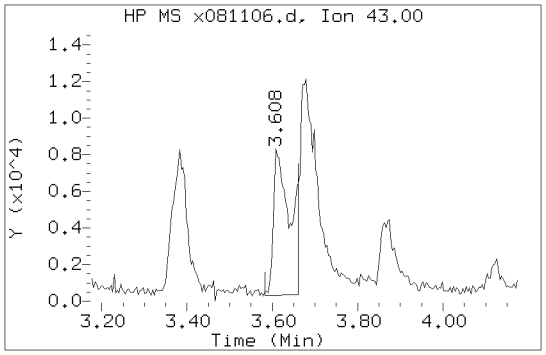
2-Butanone (78-93-3)

Reason Code:

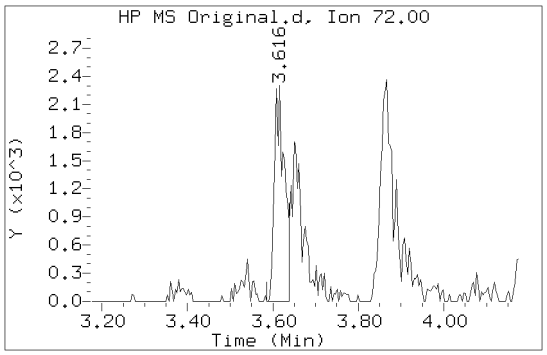
BEFORE
MASS
76
AREA
175609
HEIGHT
115983
12-Aug-2023
22:49



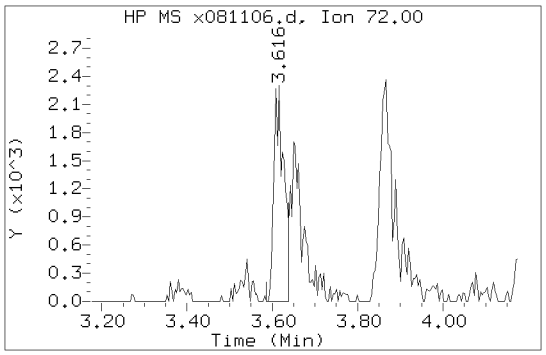
AFTER
MASS
43
AREA
21612
HEIGHT
7999
23-Aug-2023
11:11



BEFORE
MASS
78
AREA
16796
HEIGHT
10460
12-Aug-2023
22:49



AFTER
MASS
72
AREA
3760
HEIGHT
2304
23-Aug-2023
11:11



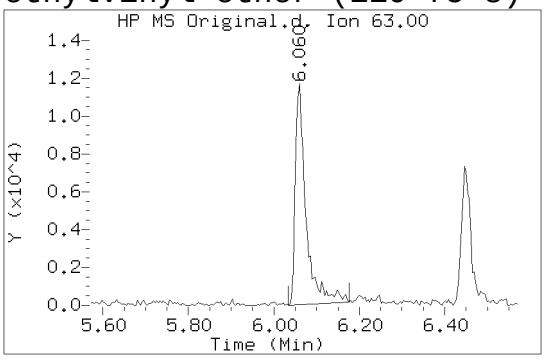
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Inj Date : 11-AUG-2023 13:15
InstruID : voa6.i
LabSampID : VSTD005

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

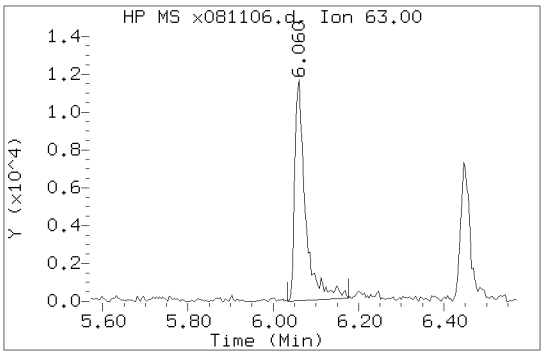
BEFORE

MASS
129
AREA
33839
HEIGHT
23736
12-Aug-2023
22:49



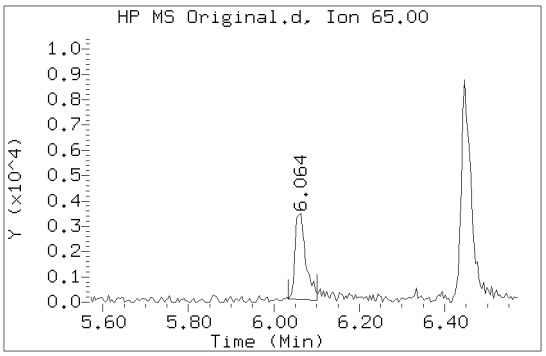
AFTER

MASS
63
AREA
20647
HEIGHT
11678
23-Aug-2023
11:11



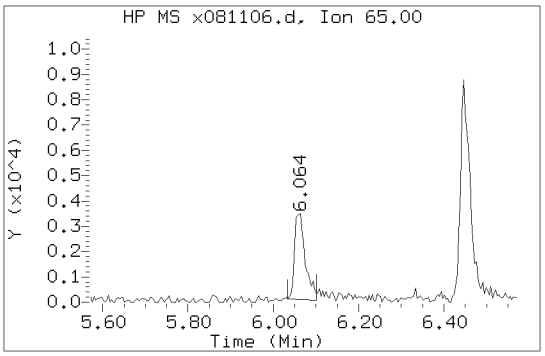
BEFORE

MASS
127
AREA
27133
HEIGHT
17984
12-Aug-2023
22:49



AFTER

MASS
65
AREA
6086
HEIGHT
3409
23-Aug-2023
11:11

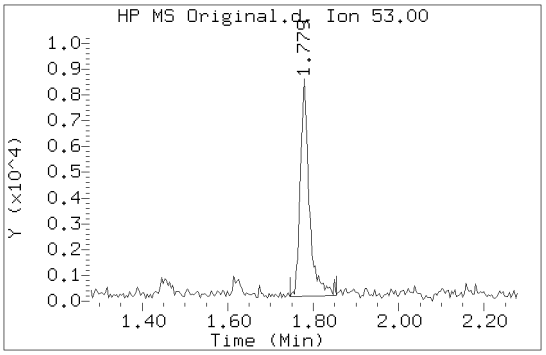


Chloroprene (126-99-8)

Reason Code:

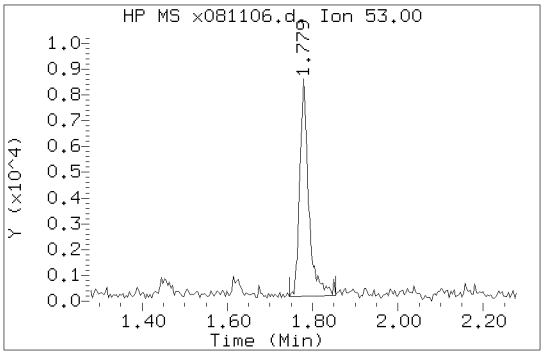
BEFORE

MASS
43
AREA
35083
HEIGHT
11733
12-Aug-2023
22:49



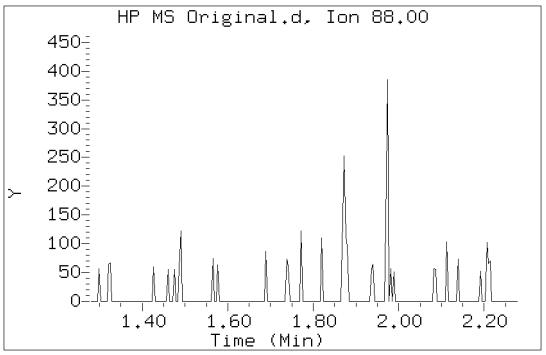
AFTER

MASS
53
AREA
12759
HEIGHT
8433
23-Aug-2023
11:11



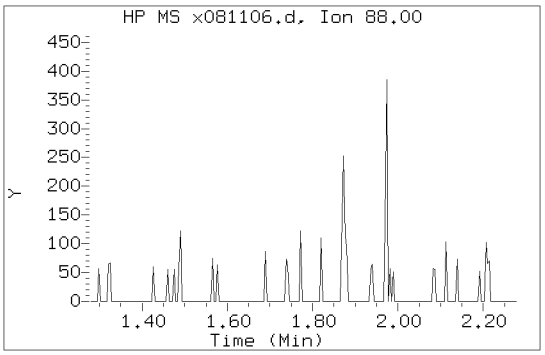
BEFORE

MASS
61
AREA
4008
HEIGHT
1690
12-Aug-2023
22:49



AFTER

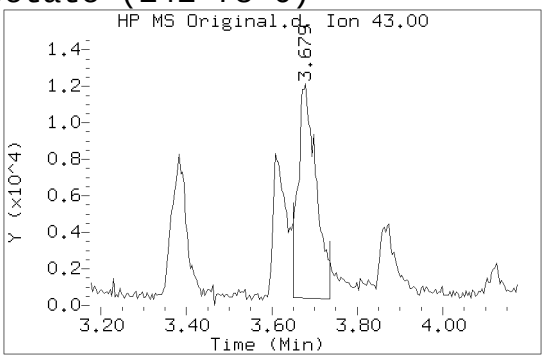
MASS
88
AREA
0
HEIGHT
0
23-Aug-2023
11:11



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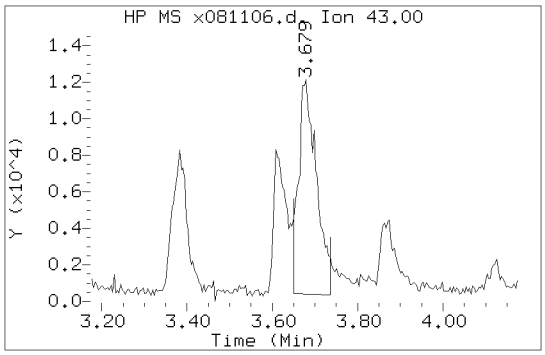
Ethyl Acetate (141-78-6)

BEFORE
MASS
55
AREA
30863
HEIGHT
6309
12-Aug-2023
22:49

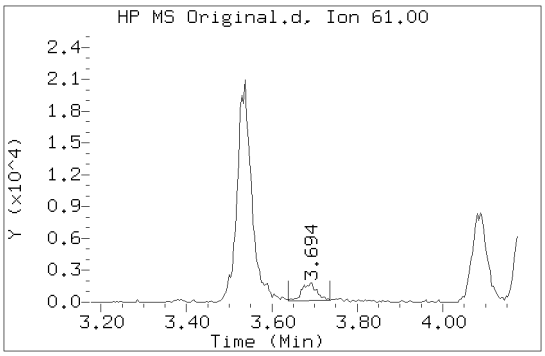


Reason Code:

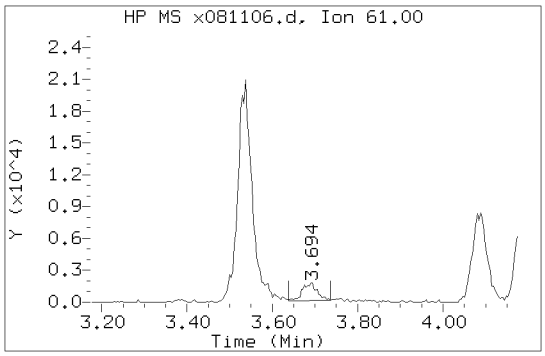
AFTER
MASS
43
AREA
35083
HEIGHT
11733
23-Aug-2023
11:11



BEFORE
MASS
85
AREA
3554
HEIGHT
1491
12-Aug-2023
22:49

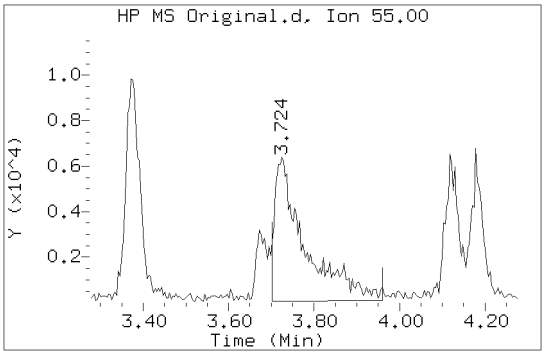


AFTER
MASS
61
AREA
4008
HEIGHT
1690
23-Aug-2023
11:11



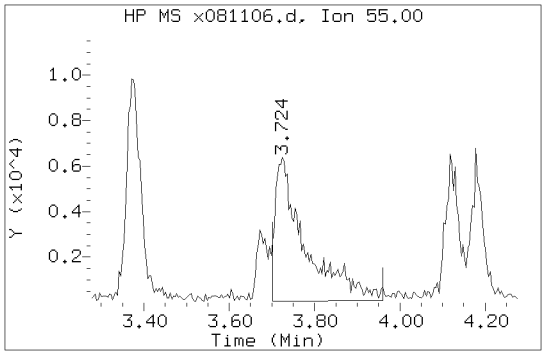
Methyl Acrylate (96-33-3)

BEFORE
MASS
56
AREA
9555
HEIGHT
4115
12-Aug-2023
22:49

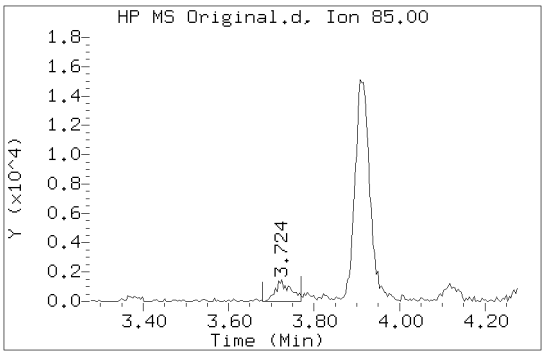


Reason Code:

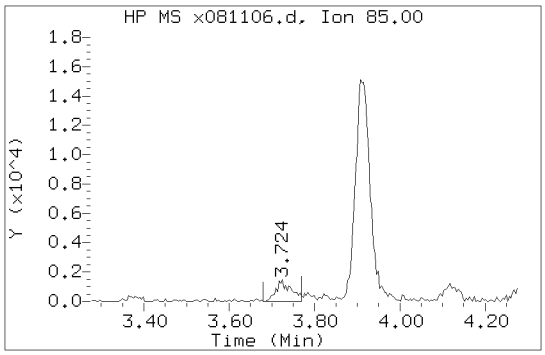
AFTER
MASS
55
AREA
30863
HEIGHT
6309
23-Aug-2023
11:11



BEFORE
MASS
41
AREA
19670
HEIGHT
8754
12-Aug-2023
22:49



AFTER
MASS
85
AREA
3554
HEIGHT
1491
23-Aug-2023
11:11

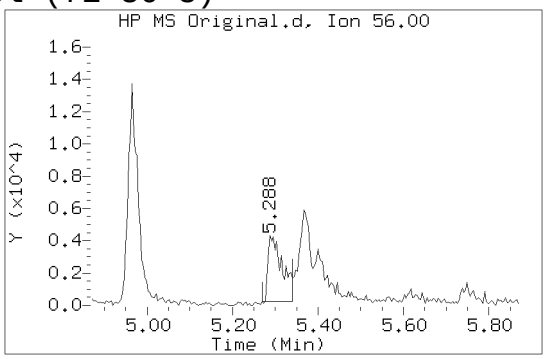


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LabSampID : VSTD005

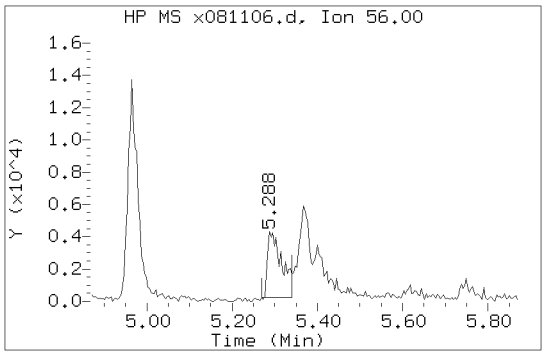
n-Butanol (71-36-3)

Reason Code:

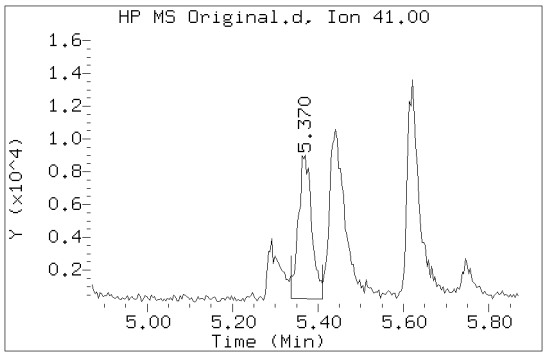
BEFORE
MASS
55
AREA
65654
HEIGHT
18419
12-Aug-2023
22:49



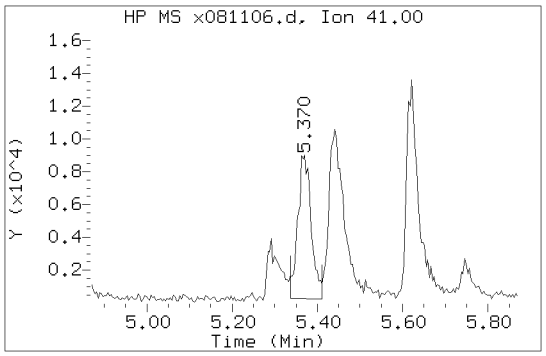
AFTER
MASS
56
AREA
9555
HEIGHT
4115
23-Aug-2023
11:11



BEFORE
MASS
99
AREA
1505
HEIGHT
1011
12-Aug-2023
22:49



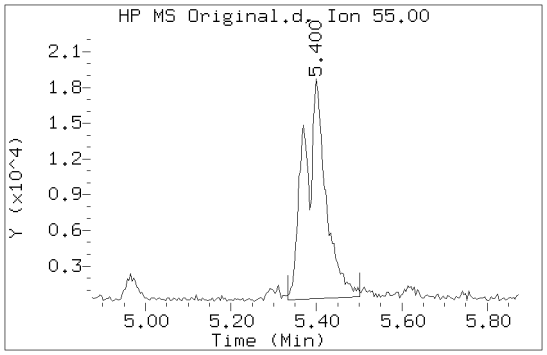
AFTER
MASS
41
AREA
19670
HEIGHT
8754
23-Aug-2023
11:11



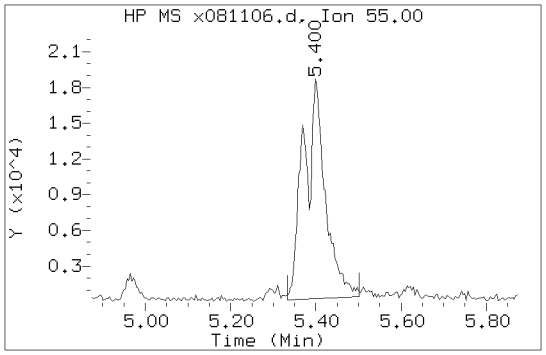
Ethyl Acrylate (140-88-5)

Reason Code:

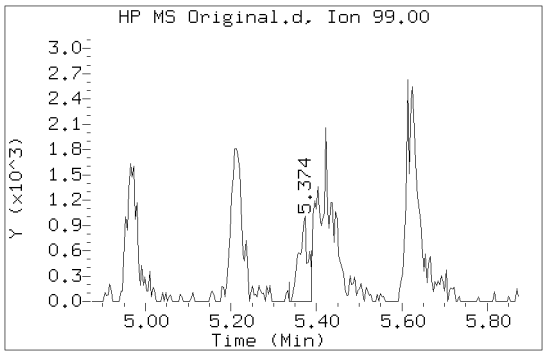
BEFORE
MASS
55
AREA
32884
HEIGHT
21499
12-Aug-2023
22:49



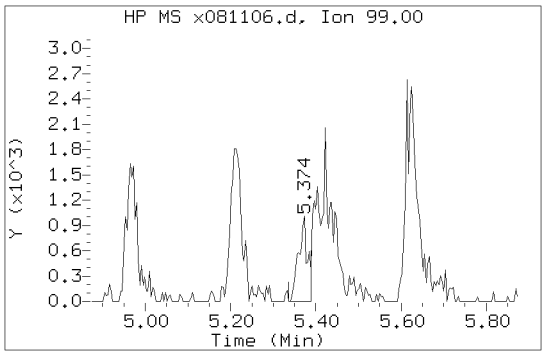
AFTER
MASS
55
AREA
65654
HEIGHT
18419
23-Aug-2023
11:11



BEFORE
MASS
42
AREA
23311
HEIGHT
15555
12-Aug-2023
22:49



AFTER
MASS
99
AREA
1505
HEIGHT
1011
23-Aug-2023
11:11

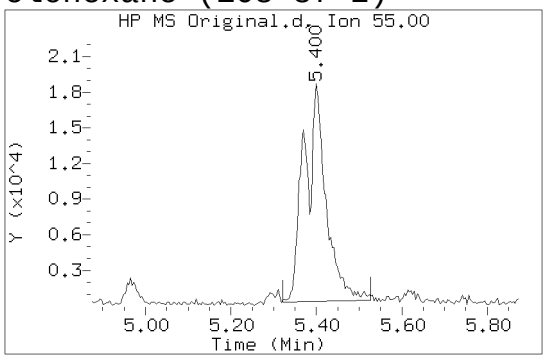


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LabSampID : VSTD005

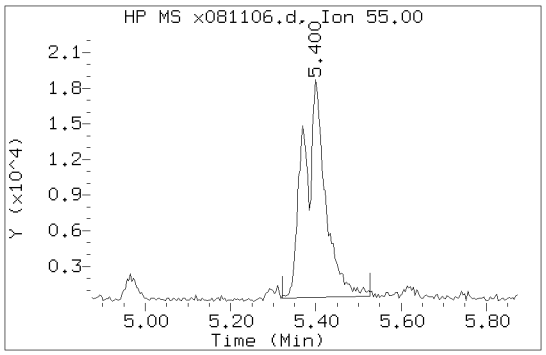
Methylcyclohexane (108-87-2)

Reason Code:

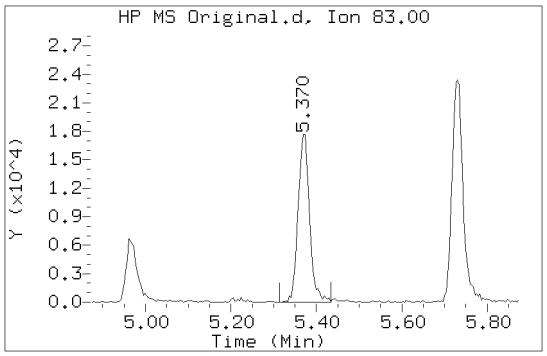
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22:49



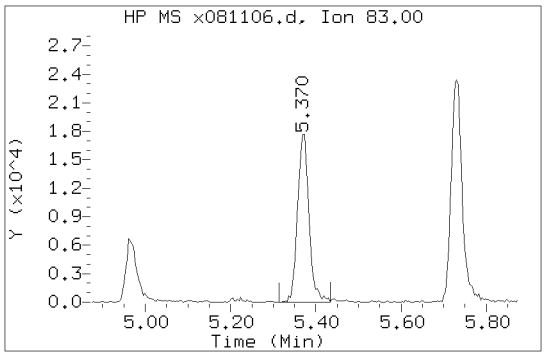
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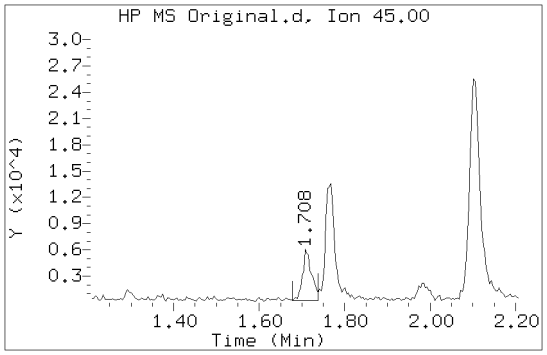
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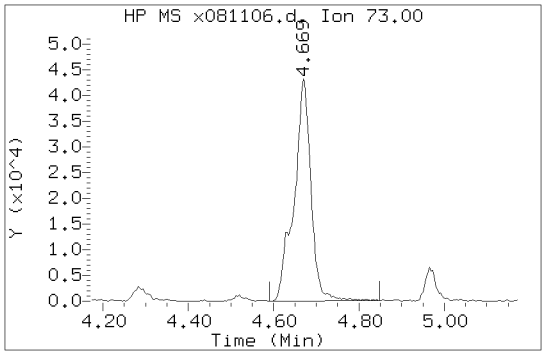
tert-Amyl methyl ether (974-05-08)

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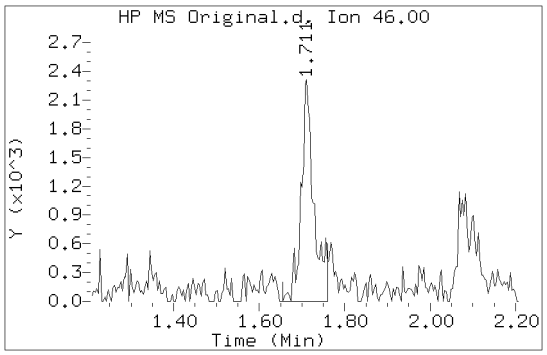
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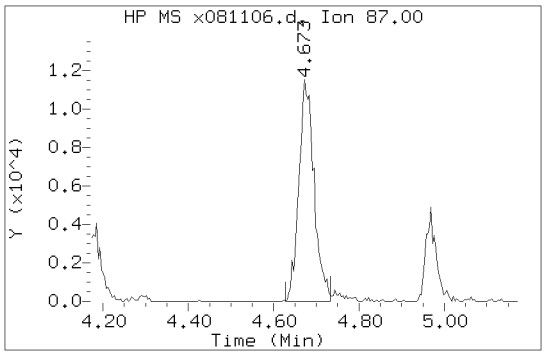
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BEFORE
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22:49



AFTER
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23-Aug-2023
11:11



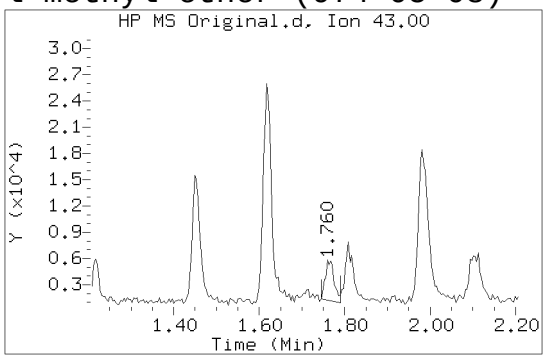
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LabSampID : VSTD005

tert-Amyl methyl ether (974-05-08)

Reason Code:

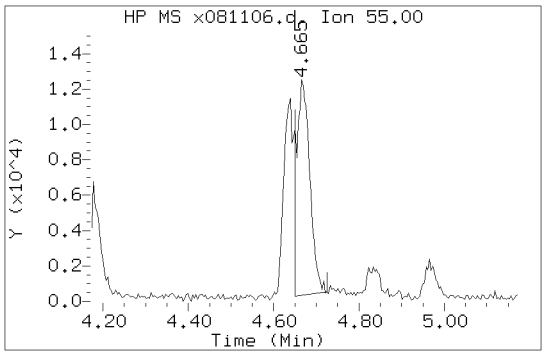
BEFORE

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AFTER

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23-Aug-2023
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081107.D Page 1
Report Date: 24-Aug-2023 12:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081107.D
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Inj Date : 11-AUG-2023 13:36
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
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Meth Date : 24-Aug-2023 12:31 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 12:35 Cal File: X081104.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	594179	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	99620	20.0000	18.71
3	Chloromethane	50	1.085	1.085	(0.260)	99333	20.0000	17.17
4	Propionitrile	54	3.660	3.660	(0.875)	160298	200.000	193.72(a)
5	Vinyl Chloride	62	1.149	1.149	(0.275)	131824	20.0000	18.49
6	Bromomethane	94	1.347	1.347	(0.322)	66144	20.0000	17.24
7	Chloroethane	64	1.407	1.407	(0.337)	87886	20.0000	18.81
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	185034	20.0000	18.24
9	Acrolein	56	1.865	1.865	(0.446)	7342	40.0000	35.98(H)
10	Acetone	43	1.981	1.981	(0.474)	100132	40.0000	40.98
11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	106371	20.0000	18.54
12	Isobutyl Alcohol	43	4.684	4.684	(1.120)	366430	400.000	393.42(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	176623	200.000	192.74(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	336437	20.0000	18.58(a)
15	Iodomethane	142	2.030	2.030	(0.485)	171922	40.0000	30.15
16	Acrylonitrile	53	2.543	2.543	(0.608)	107147	40.0000	38.76
17	Methylene Chloride	84	2.307	2.307	(0.552)	143307	20.0000	19.91
18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	388395	20.0000	18.97
19	Carbon Disulfide	76	2.075	2.075	(0.496)	644484	40.0000	37.85
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	128440	20.0000	19.26

21 Vinyl Acetate	43	3.004	3.004 (0.719)	779470	40.0000	39.52
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	239723	20.0000	19.09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.778	1.778	(0.425)	45834	20.0000	18.23(M)
	24 2-Butanone	43	3.593	3.593	(0.859)	78570	40.0000	35.72(H)
	25 Methacrylonitrile	41	3.836	3.836	(0.918)	114783	20.0000	19.36(a)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	162441	20.0000	19.26
	27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	126395	20.0000	19.74
	28 Chloroform	83	3.911	3.911	(0.935)	214801	20.0000	19.51
	29 Bromochloromethane	128	3.799	3.799	(0.909)	69658	20.0000	19.13
$	30 Dibromofluoromethane	113	4.106	4.106	(0.982)	119843	20.0000	21.52
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	170734	20.0000	19.32
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	142215	20.0000	18.93(H)
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	174386	20.0000	19.21
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	140370	20.0000	17.70(H)
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	130066	20.0000	20.79
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	954542	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	448606	20.0000	19.08
	38 Trichloroethene	130	5.208	5.208	(1.049)	126937	20.0000	18.78
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	165416	20.0000	18.89
	40 Methyl Methacrylate	41	5.610	5.610	(1.342)	104538	20.0000	19.12(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	81477	40.0000	36.37
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	124523	20.0000	18.78
	43 2-Nitropropane	43	5.973	5.973	(1.428)	38364	20.0000	17.57
	44 Dibromomethane	93	5.553	5.553	(1.119)	84627	20.0000	18.67
	45 4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	249622	40.0000	38.79
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	189727	20.0000	18.93
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	897079	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	408559	20.0000	19.35
	49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	167313	20.0000	19.13(aH)
	50 Toluene	91	6.446	6.446	(0.841)	473181	20.0000	18.92
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	155214	20.0000	18.45
	52 2-Hexanone	43	7.090	7.090	(0.925)	171498	40.0000	39.70
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	97724	20.0000	19.61
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	193640	20.0000	19.01
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	139248	20.0000	19.36
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	97904	20.0000	18.84
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	120578	20.0000	19.80
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	93256	20.0000	16.88(M)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	326753	20.0000	18.97
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	129317	20.0000	19.43
	61 Ethylbenzene	106	7.795	7.795	(1.017)	165338	20.0000	19.43
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	420476	40.0000	38.64
	63 o-Xylene	106	8.241	8.241	(1.075)	205919	20.0000	19.20
	64 Styrene	104	8.256	8.256	(1.077)	354808	20.0000	19.89
	66 Bromoform	173	8.410	8.410	(1.097)	95387	20.0000	19.65
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	505663	20.0000	18.97
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	159320	20.0000	19.39
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	175173	20.0000	19.95
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	504555	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	118920	20.0000	19.68(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	41908	20.0000	18.52(aH)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	592736	20.0000	19.86
	74 Bromobenzene	156	8.803	8.803	(0.912)	159999	20.0000	19.84
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	423856	20.0000	19.43

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	376667	20.0000	19.71
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	432420	20.0000	19.67

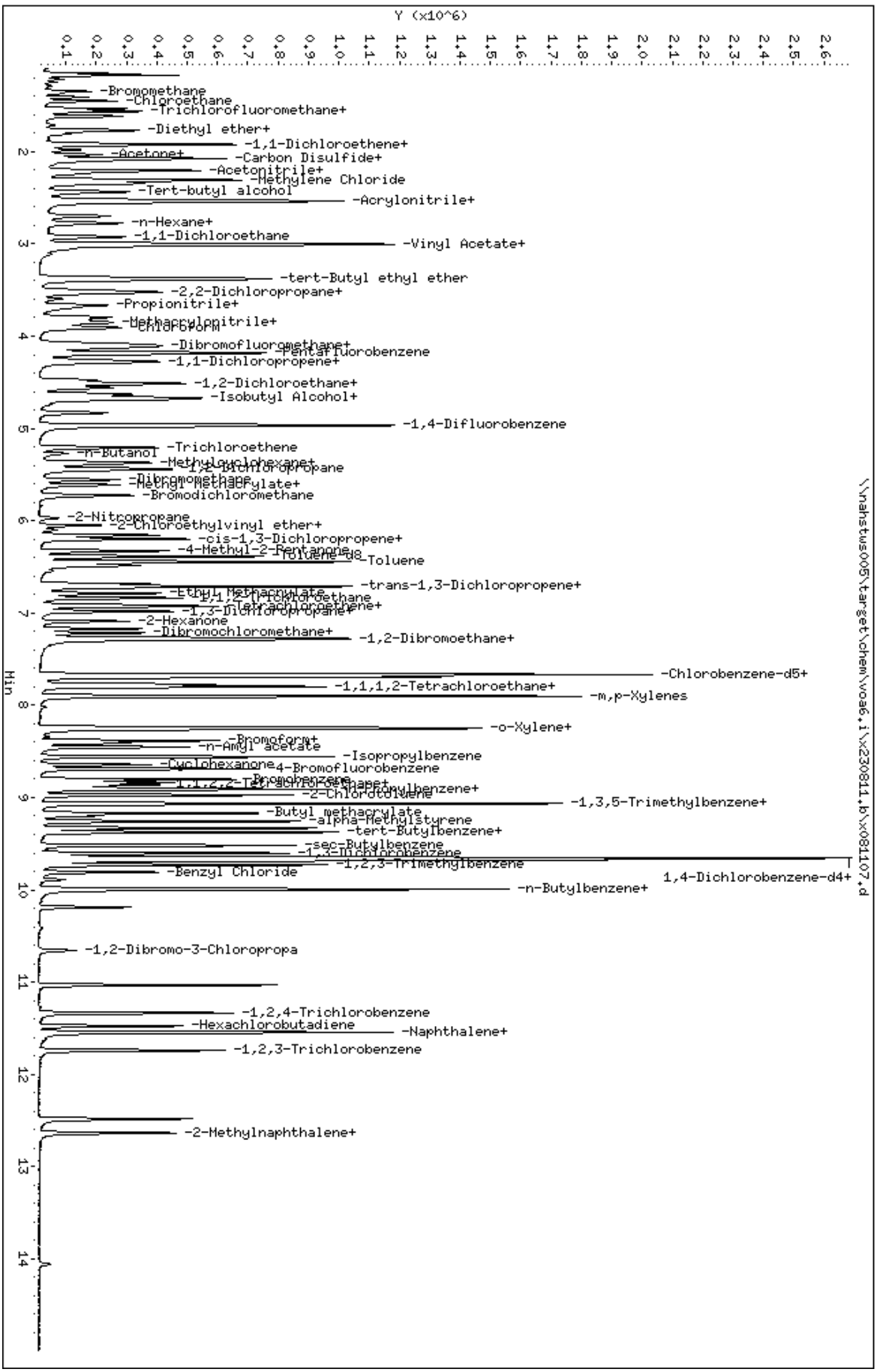
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	364564	20.0000	19.51
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	432105	20.0000	19.24
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	485819	20.0000	18.96
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	449583	20.0000	19.41
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	278790	20.0000	19.41
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	295894	20.0000	19.23
86	Benzyl Chloride	91	9.808	9.808	(1.279)	233132	20.0000	18.15
87	n-Butylbenzene	91	9.992	9.992	(1.035)	387389	20.0000	18.50
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.035)	283339	20.0000	19.54
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.104)	25685	20.0000	18.49
90	1,2,4-Trichlorobenzene	180	11.338	11.338	(1.174)	185838	20.0000	19.37
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	73649	20.0000	22.23
92	Naphthalene	128	11.544	11.544	(1.195)	460009	20.0000	19.20
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	171743	20.0000	18.36
146	Methyl acetate	43	2.236	2.236	(0.535)	107794	20.0000	20.18
138	Freon TF	101	1.921	1.921	(0.459)	98415	20.0000	18.33
141	Cyclohexane	56	4.118	4.118	(0.985)	130025	20.0000	17.59(M)
142	Tetrahydrofuran	42	3.855	3.855	(0.922)	42663	40.0000	36.80
147	Methylcyclohexane	55	5.388	5.388	(1.085)	259972	20.0000	18.12
135	1,4-Dioxane	88	5.602	5.602	(1.340)	27941	400.000	369.95
132	n-Butanol	56	5.268	5.268	(1.260)	50123	400.000	365.12(TaM)
131	Methyl Acrylate	55	3.702	3.702	(0.885)	105819	20.0000	18.02(M)
133	Ethyl Acrylate	55	5.388	5.388	(1.289)	259972	20.0000	18.49
136	n-Hexane	57	2.776	2.776	(0.664)	118882	20.0000	22.69
139	Diethyl ether	59	1.763	1.763	(0.422)	100918	20.0000	19.24
148	Tert-butyl alcohol	59	2.435	2.435	(0.582)	300900	400.000	412.57
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	173548	400.000	408.56
156	Diisopropyl ether	45	3.004	3.004	(0.719)	403075	20.0000	18.83
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	427412	20.0000	18.25
167	Ethanol	45	1.707	1.707	(0.408)	29323	400.000	402.22
172	tert-Butyl formate	59	4.631	4.631	(1.108)	225035	40.0000	37.90
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	305457	400.000	360.39
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	459457	20.0000	18.48(M)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	370349	20.0000	18.73
176	tert-Amyl alcohol	59	4.631	4.631	(1.108)	225035	400.000	379.87
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	605051	400.000	319.33
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	197826	20.0000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	109945	20.0000	17.96
152	Amyl alcohol	42	6.974	6.974	(0.910)	8159	400.000	109.87
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	196930	20.0000	19.21
159	Propylene oxide	43	1.808	1.808	(0.433)	31615	40.0000	32.96
161	3-Methyl-1-butanol	55	6.907	6.907	(0.901)	57224	400.000	368.88
162	Butyl acrylate	55	8.252	8.252	(1.076)	269198	20.0000	18.42
163	Butyl methacrylate	41	9.167	9.167	(0.949)	199878	20.0000	19.54
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	526364	20.0000	19.76
182	Epichlorohydrin	57	6.097	6.097	(1.228)	45976	80.0000	78.75(M)
M 94	1,2-Dichloroethylene (total)	96				254835	40.0000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	212279	20.0000	19.78
130	Ethyl Acetate	43	3.664	3.664	(0.876)	141943	20.0000	20.81
134	Cyclohexanone	55	8.642	8.642	(0.895)	125047	400.000	389.18(a)
185	Isoprene	39	1.775	1.775	(0.425)	46314	20.0000	18.72
188	Isopropyl acetate	43	4.684	4.684	(0.943)	370663	20.0000	19.22

187 n-Amyl acetate	43	8.451	8.451 (1.102)	255175	20.0000	19.26
189 n-Butyl acetate	43	7.214	7.214 (0.941)	202932	20.0000	19.72(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.776	2.776	(0.664)	118882	400.000	454.42
194 Acetaldehyde	44	1.216	1.216	(0.291)	59320	80.0000	94.63(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	300879	20.0000	19.26
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	233902	20.0000	19.80
202 Isobutylene	41	1.242	1.242	(0.297)	14022	20.0000	17.98(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	196161	20.0000	19.03

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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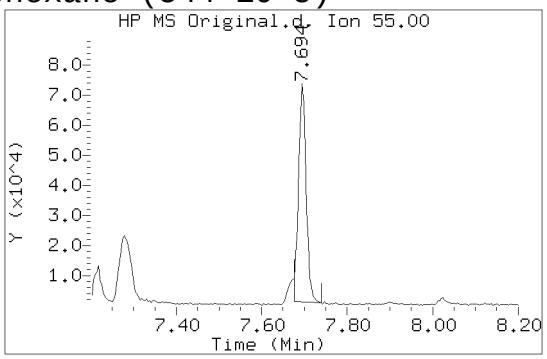
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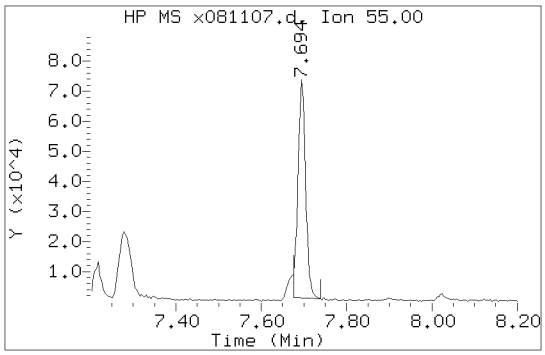
1-Chlorohexane (544-10-5)

Reason Code:

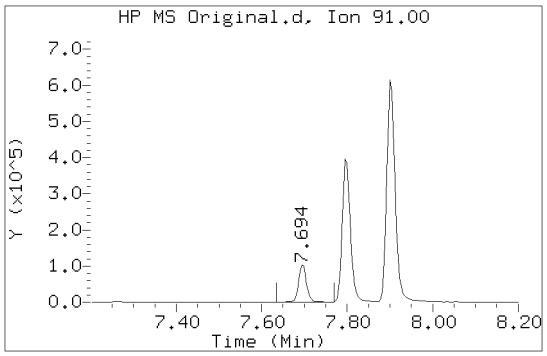
BEFORE
MASS
164
AREA
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HEIGHT
68232
12-Aug-2023
22:49



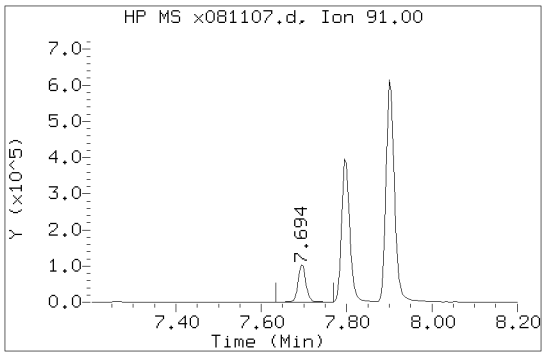
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MASS
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AREA
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HEIGHT
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23-Aug-2023
11:11



BEFORE
MASS
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AREA
85190
HEIGHT
62837
12-Aug-2023
22:49



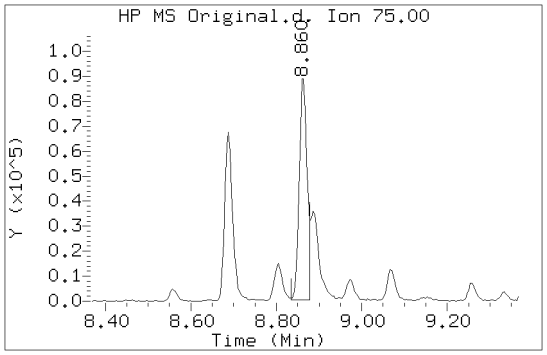
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91
AREA
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HEIGHT
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23-Aug-2023
11:11



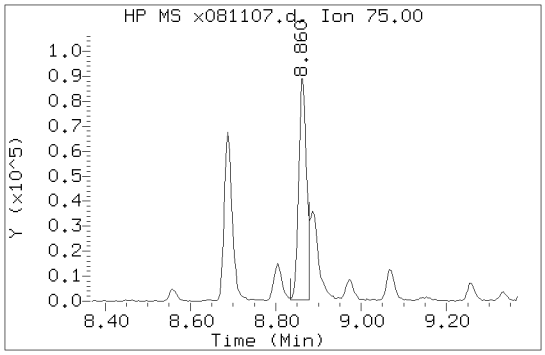
1,2,3-Trichloropropane (96-18-4)

Reason Code:

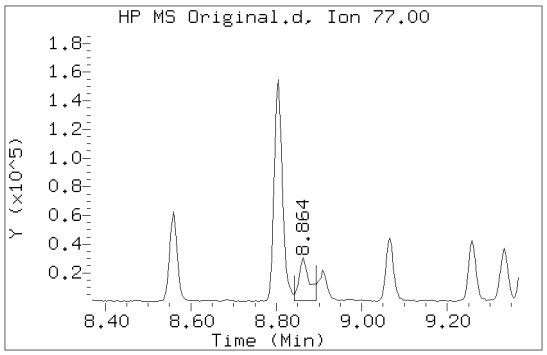
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33198
12-Aug-2023
22:49



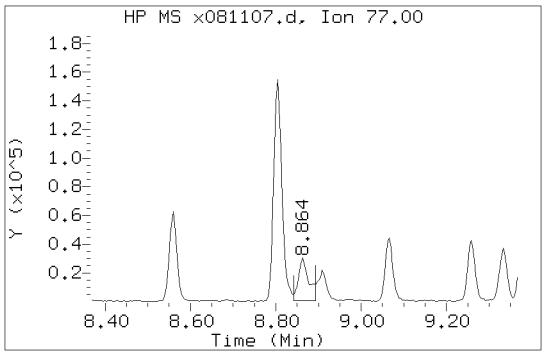
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MASS
75
AREA
118920
HEIGHT
88458
23-Aug-2023
11:11



BEFORE
MASS
67
AREA
47726
HEIGHT
20831
12-Aug-2023
22:49



AFTER
MASS
77
AREA
52396
HEIGHT
30042
23-Aug-2023
11:11

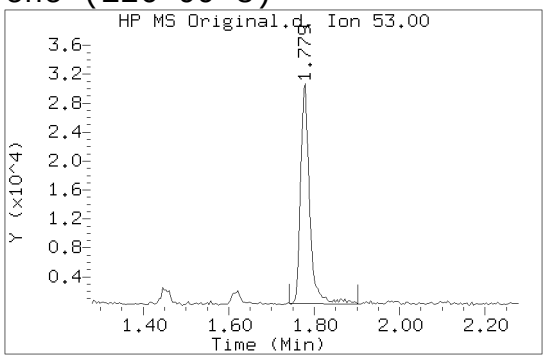


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LabSampID : VSTD020

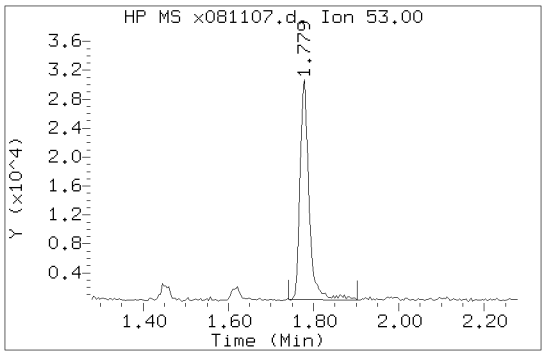
Chloroprene (126-99-8)

Reason Code:

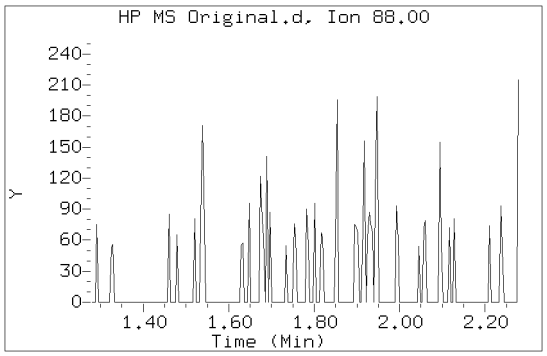
BEFORE
MASS
43
AREA
141943
HEIGHT
53227
12-Aug-2023
22:49



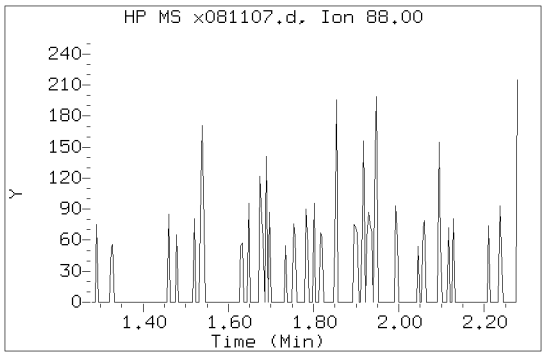
AFTER
MASS
53
AREA
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HEIGHT
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23-Aug-2023
11:11



BEFORE
MASS
61
AREA
17157
HEIGHT
7994
12-Aug-2023
22:49



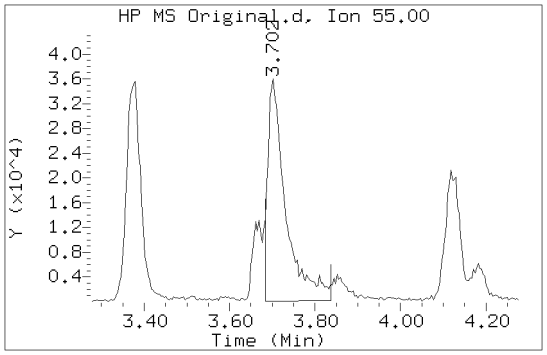
AFTER
MASS
88
AREA
0
HEIGHT
0
23-Aug-2023
11:11



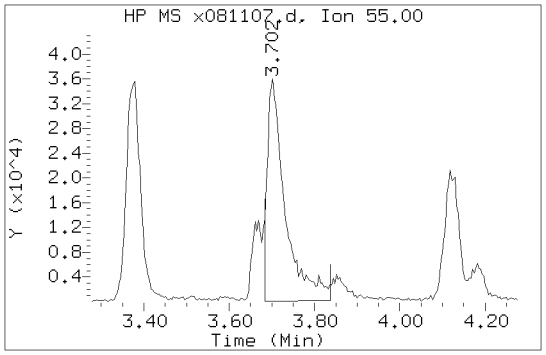
Methyl Acrylate (96-33-3)

Reason Code:

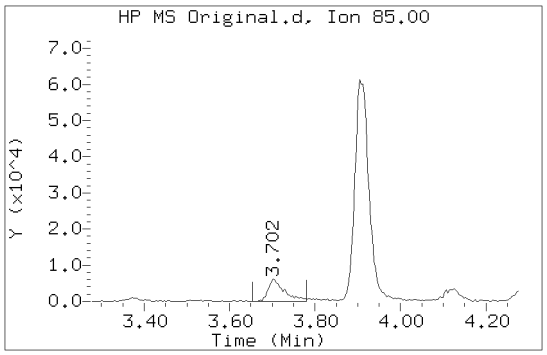
BEFORE
MASS
56
AREA
50123
HEIGHT
25599
12-Aug-2023
22:49



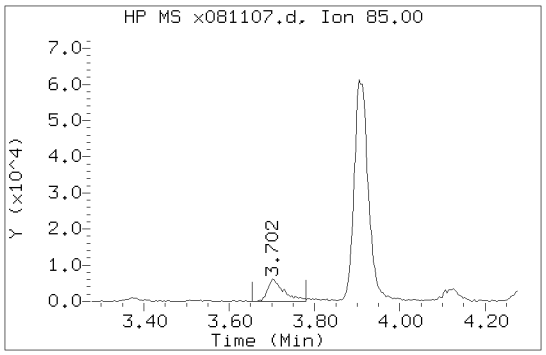
AFTER
MASS
55
AREA
105819
HEIGHT
35852
23-Aug-2023
11:11



BEFORE
MASS
41
AREA
69255
HEIGHT
37047
12-Aug-2023
22:49



AFTER
MASS
85
AREA
16325
HEIGHT
6152
23-Aug-2023
11:11

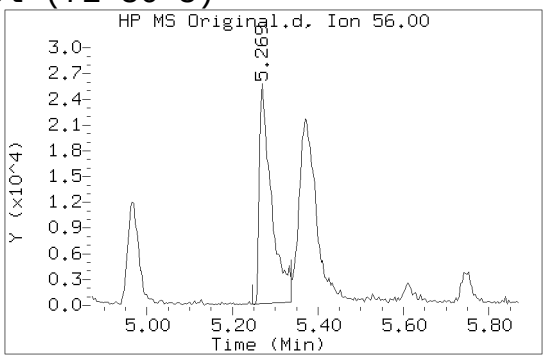


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InstruID : voa6.i
LabSampID : VSTD020

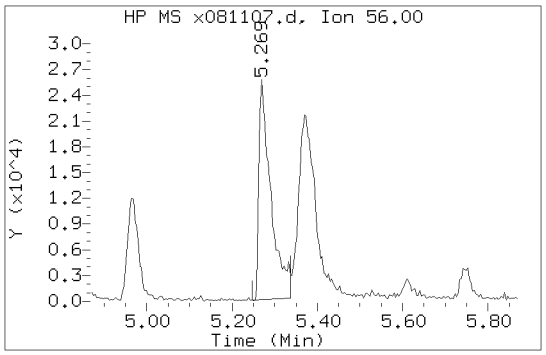
n-Butanol (71-36-3)

Reason Code:

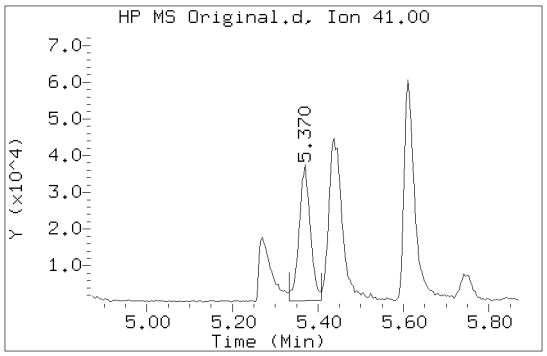
BEFORE
MASS
55
AREA
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HEIGHT
92898
12-Aug-2023
22:49



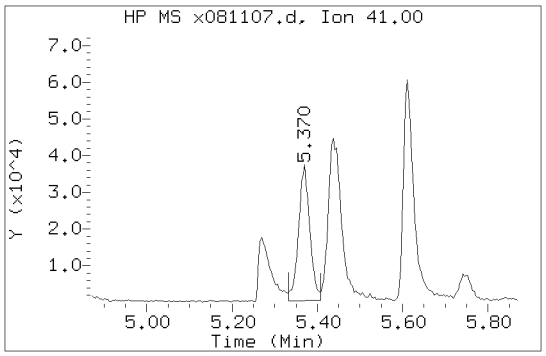
AFTER
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56
AREA
50123
HEIGHT
25599
23-Aug-2023
11:11



BEFORE
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99
AREA
16577
HEIGHT
7200
12-Aug-2023
22:49



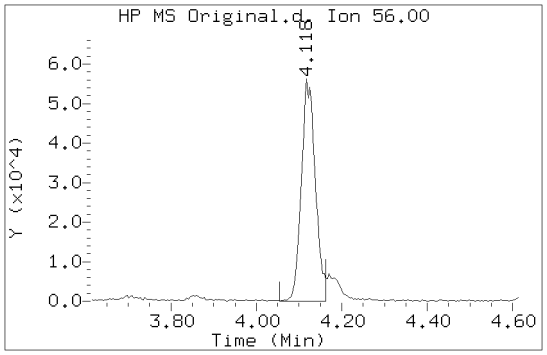
AFTER
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41
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23-Aug-2023
11:11



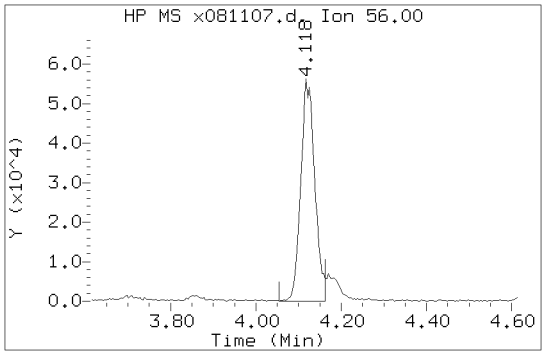
Cyclohexane (110-82-7)

Reason Code:

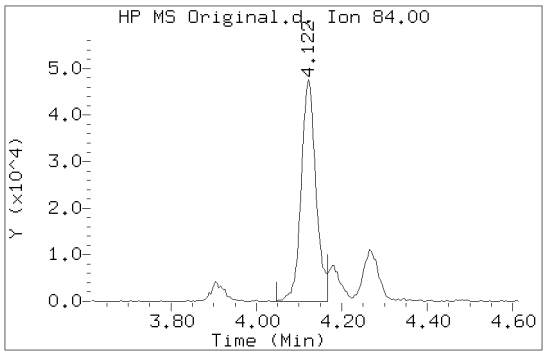
BEFORE
MASS
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AREA
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HEIGHT
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12-Aug-2023
22:49



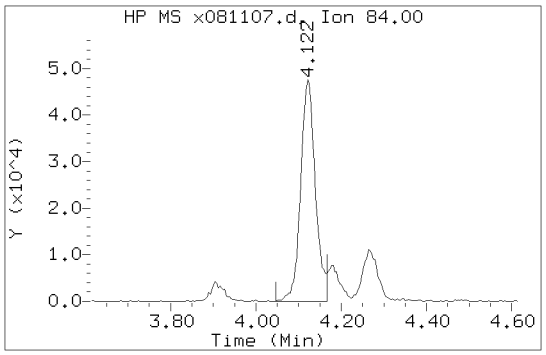
AFTER
MASS
56
AREA
130025
HEIGHT
56159
23-Aug-2023
11:11



BEFORE
MASS
83
AREA
132128
HEIGHT
74193
12-Aug-2023
22:49



AFTER
MASS
84
AREA
116356
HEIGHT
47600
23-Aug-2023
11:11

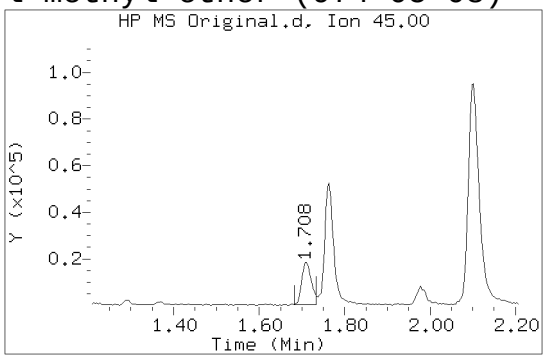


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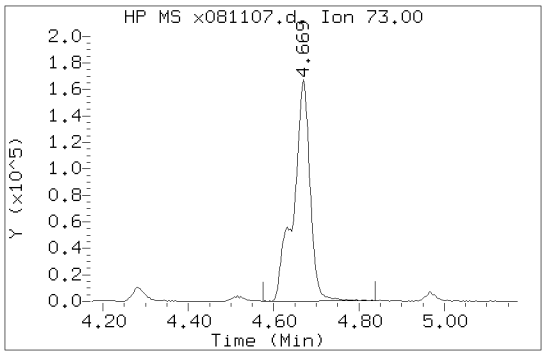
tert-Amyl methyl ether (974-05-08)

Reason Code:

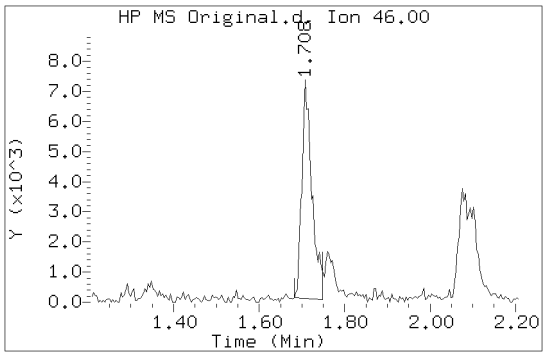
BEFORE
MASS
95
AREA
175173
HEIGHT
132691
12-Aug-2023
22:49



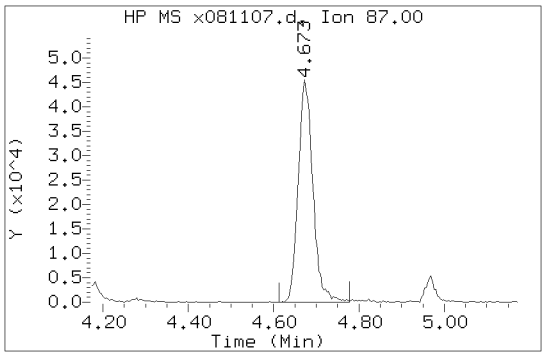
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AREA
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HEIGHT
167039
23-Aug-2023
11:11



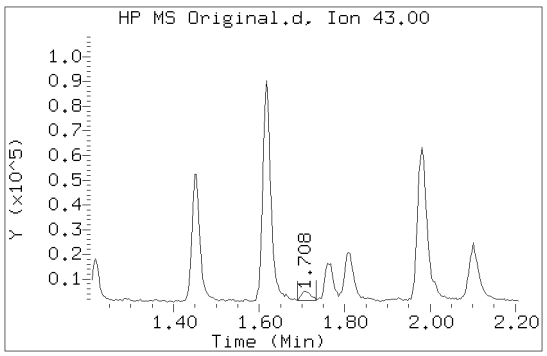
BEFORE
MASS
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AREA
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HEIGHT
126912
12-Aug-2023
22:49



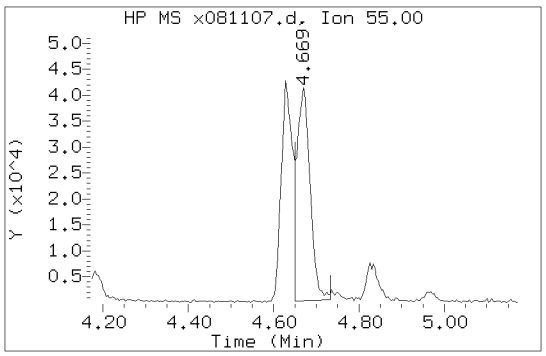
AFTER
MASS
87
AREA
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HEIGHT
45512
23-Aug-2023
11:11



BEFORE
MASS
176
AREA
165288
HEIGHT
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12-Aug-2023
22:49



AFTER
MASS
55
AREA
89749
HEIGHT
41061
23-Aug-2023
11:11



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Report Date: 23-Aug-2023 11:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081108.D
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Inj Date : 11-AUG-2023 13:56
Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	625938	50.0000	
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	255633	50.0000	44.62
3	Chloromethane	50	1.085	1.085	(0.260)	252266	50.0000	41.41
4	Propionitrile	54	3.660	3.660	(0.875)	442782	500.000	507.95
5	Vinyl Chloride	62	1.149	1.149	(0.275)	348444	50.0000	46.41
6	Bromomethane	94	1.344	1.344	(0.321)	175230	50.0000	43.35
7	Chloroethane	64	1.407	1.407	(0.337)	227926	50.0000	46.31
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	471489	50.0000	44.12
9	Acrolein	56	1.868	1.868	(0.447)	22472	100.000	109.78(M)
10	Acetone	43	1.977	1.977	(0.473)	247355	100.000	102.29
11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	272717	50.0000	45.12
12	Isobutyl Alcohol	43	4.680	4.680	(1.119)	957978	1000.00	976.37
13	Acetonitrile	39	2.202	2.202	(0.527)	466698	500.000	483.46
14	Allyl Chloride	41	2.202	2.202	(0.527)	902455	50.0000	47.32
15	Iodomethane	142	2.033	2.033	(0.486)	646092	100.000	91.55
16	Acrylonitrile	53	2.539	2.539	(0.607)	277128	100.000	95.18
17	Methylene Chloride	84	2.307	2.307	(0.552)	351292	50.0000	46.34
18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	1034145	50.0000	47.96
19	Carbon Disulfide	76	2.075	2.075	(0.496)	1686583	100.000	94.02
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	328345	50.0000	46.74
21	Vinyl Acetate	43	3.000	3.000	(0.718)	2062146	100.000	99.25

22 1,1-Dichloroethane	63	2.926	2.926 (0.700)	616011	50.0000	46.57
23 Chloroprene	53	1.775	1.775 (0.424)	115869	50.0000	43.75(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.585	3.585	(0.857)	238982	100.000	103.14(H)
25	Methacrylonitrile	41	3.829	3.829	(0.916)	304721	50.0000	48.81(a)
26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	420039	50.0000	47.30
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.844)	328642	50.0000	48.72
28	Chloroform	83	3.908	3.908	(0.935)	553085	50.0000	47.70
29	Bromochloromethane	128	3.795	3.795	(0.908)	180912	50.0000	47.18
$ 30	Dibromofluoromethane	113	4.099	4.099	(0.980)	277572	50.0000	48.32
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	441440	50.0000	47.42
32	1,1-Dichloropropene	75	4.283	4.283	(0.863)	361675	50.0000	45.59(H)
33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	449454	50.0000	46.89
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	362480	50.0000	43.28(H)
$ 35	1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	321172	50.0000	50.23
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1008183	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	1163806	50.0000	46.86
38	Trichloroethene	130	5.205	5.205	(1.048)	330245	50.0000	46.27
39	Bromodichloromethane	83	5.726	5.726	(1.153)	432633	50.0000	46.77
40	Methyl Methacrylate	41	5.606	5.606	(1.341)	286102	50.0000	49.67
41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	212271	100.000	89.71
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	325555	50.0000	46.49
43	2-Nitropropane	43	5.969	5.969	(1.428)	103306	50.0000	44.93
44	Dibromomethane	93	5.550	5.550	(1.118)	216805	50.0000	45.30
45	4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	644425	100.000	94.11
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	501073	50.0000	47.34
* 47	Chlorobenzene-d5	117	7.668	7.668	(1.000)	954561	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	939847	50.0000	41.83
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	441120	50.0000	47.75(H)
50	Toluene	91	6.445	6.445	(0.841)	1246104	50.0000	46.84
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	415765	50.0000	46.80
52	2-Hexanone	43	7.086	7.086	(0.924)	438931	100.000	95.49
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	251037	50.0000	47.34
54	1,3-Dichloropropane	76	6.982	6.982	(0.911)	508446	50.0000	46.91
55	Dibromochloromethane	129	7.173	7.173	(0.935)	378042	50.0000	49.40
56	Tetrachloroethene	164	6.925	6.925	(0.903)	253710	50.0000	45.89
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	313080	50.0000	48.33
58	1-Chlorohexane	55	7.694	7.694	(1.550)	253055	50.0000	43.38
59	Chlorobenzene	112	7.690	7.690	(1.003)	864270	50.0000	47.15
60	1,1,1,2-Tetrachloroethane	131	7.769	7.769	(1.013)	339679	50.0000	47.98
61	Ethylbenzene	106	7.795	7.795	(1.017)	430082	50.0000	47.51
62	m,p-Xylenes	106	7.900	7.900	(1.030)	1109770	100.000	95.85
63	o-Xylene	106	8.237	8.237	(1.074)	531737	50.0000	46.60
64	Styrene	104	8.256	8.256	(1.077)	951185	50.0000	50.13
66	Bromoform	173	8.406	8.406	(1.096)	256325	50.0000	49.64
67	Isopropylbenzene	105	8.560	8.560	(1.116)	1309182	50.0000	46.17
68	1,1,2,2-Tetrachloroethane	83	8.833	8.833	(0.915)	420510	50.0000	46.63
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	440611	50.0000	46.77
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	553886	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	326171	50.0000	49.19(M)
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	110164	50.0000	45.77(H)
73	n-Propylbenzene	91	8.908	8.908	(0.922)	1552046	50.0000	47.39
74	Bromobenzene	156	8.803	8.803	(0.912)	419375	50.0000	47.37
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	1120554	50.0000	46.80
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	970543	50.0000	46.27

77	4-Chlorotoluene	91	9.066	9.066 (0.939)	1143652	50.0000	47.39
78	tert-Butylbenzene	119	9.332	9.332 (0.966)	941886	50.0000	45.91

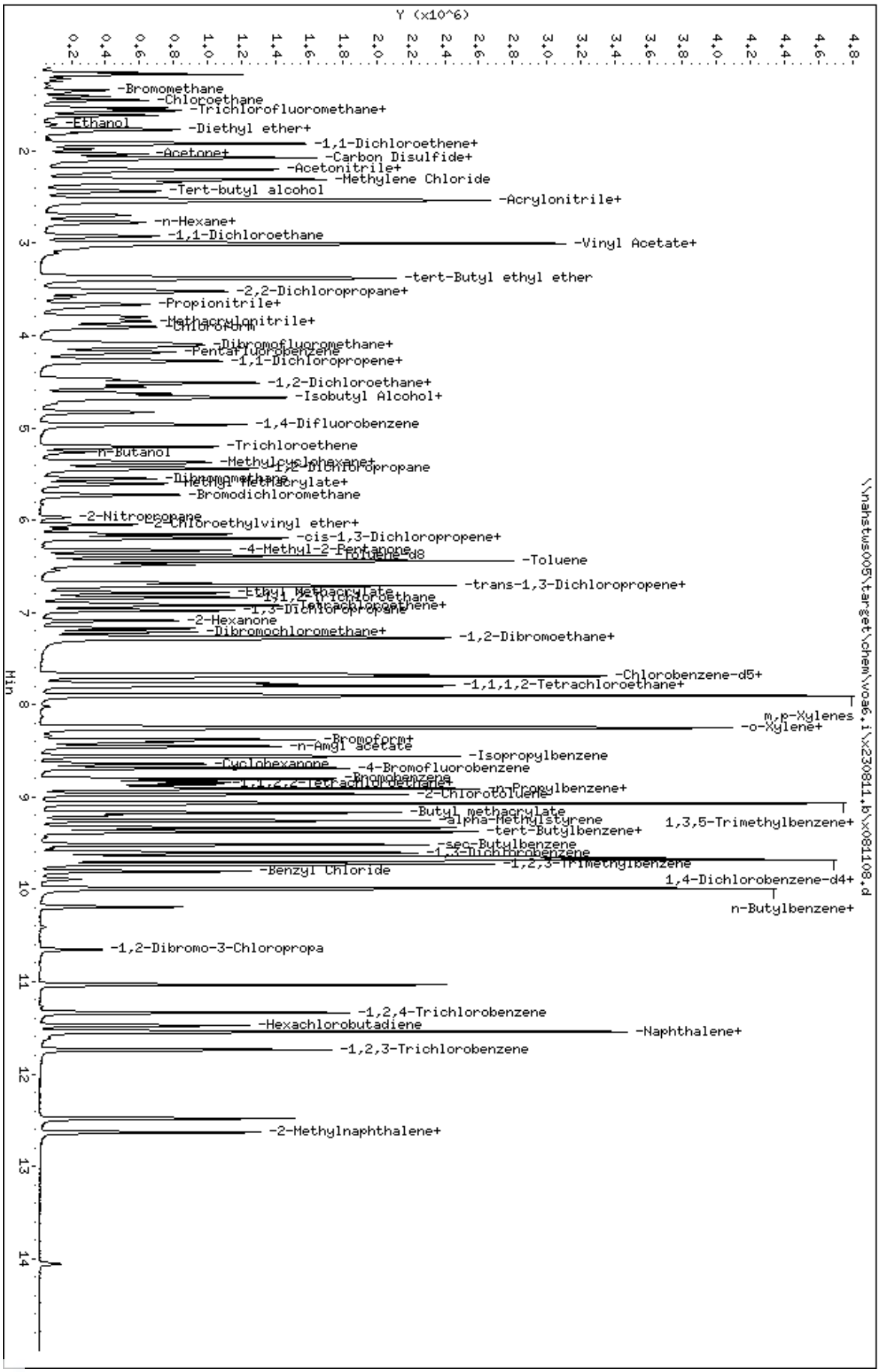
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1141051	50.0000	46.28
81	sec-Butylbenzene	105	9.516	9.516	(0.985)	1282761	50.0000	45.61
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	1159726	50.0000	45.61
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	746453	50.0000	47.34
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	797053	50.0000	47.20
86	Benzyl Chloride	91	9.804	9.804	(1.279)	694747	50.0000	50.84
87	n-Butylbenzene	91	9.992	9.992	(1.035)	1021843	50.0000	41.63
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	749344	50.0000	47.08
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	72896	50.0000	47.80
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	482657	50.0000	45.82
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	188947	50.0000	48.72
92	Naphthalene	128	11.540	11.540	(1.195)	1211199	50.0000	46.07
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	466122	50.0000	45.41
146	Methyl acetate	43	2.236	2.236	(0.535)	269607	50.0000	47.93
138	Freon TF	101	1.921	1.921	(0.459)	245533	50.0000	41.86
141	Cyclohexane	56	4.121	4.121	(0.986)	340162	50.0000	40.96
142	Tetrahydrofuran	42	3.851	3.851	(0.921)	117209	100.000	95.99
147	Methylcyclohexane	55	5.381	5.381	(1.084)	704530	50.0000	46.51
135	1,4-Dioxane	88	5.602	5.602	(1.340)	74087	1000.00	931.19
132	n-Butanol	56	5.265	5.265	(1.259)	143573	1000.00	876.06(M)
131	Methyl Acrylate	55	3.694	3.694	(0.883)	290322	50.0000	46.94(M)
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	704530	50.0000	47.58
136	n-Hexane	57	2.772	2.772	(0.663)	282893	50.0000	48.41
139	Diethyl ether	59	1.763	1.763	(0.422)	267847	50.0000	48.48
148	Tert-butyl alcohol	59	2.438	2.438	(0.583)	745105	1000.00	987.31
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	441739	1000.00	1005.43
156	Diisopropyl ether	45	3.008	3.008	(0.719)	1100466	50.0000	48.81
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1226059	50.0000	47.68
167	Ethanol	45	1.707	1.707	(0.408)	75258	1000.00	1016.17
172	tert-Butyl formate	59	4.627	4.627	(1.107)	477735	100.000	76.38
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	715772	1000.00	793.64
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	1214281	50.0000	49.02(M)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	991360	50.0000	48.91
176	tert-Amyl alcohol	59	4.627	4.627	(1.107)	477735	1000.00	765.54
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	1477145	1000.00	738.12
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	534109	50.0000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	288154	50.0000	44.68
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	531346	50.0000	49.22
159	Propylene oxide	43	1.808	1.808	(0.433)	80421	100.000	79.60
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	155772	1000.00	943.68
162	Butyl acrylate	55	8.249	8.249	(1.076)	753228	50.0000	48.44
163	Butyl methacrylate	41	9.167	9.167	(0.949)	558625	50.0000	49.75
164	Dicyclopentadiene	66	9.681	9.681	(1.002)	1468680	50.0000	49.78
182	Epichlorohydrin	57	6.097	6.097	(1.228)	111646	200.000	181.07
M 94	1,2-Dichloroethylene (total)	96				656987	100.000	95.47
M 95	Xylenes (total)	106				1641507	150.000	142.45
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	569808	50.0000	48.36
130	Ethyl Acetate	43	3.664	3.664	(0.876)	338578	50.0000	47.12
134	Cyclohexanone	55	8.642	8.642	(0.895)	322789	1000.00	915.14
185	Isoprene	39	1.775	1.775	(0.424)	107534	50.0000	41.26
188	Isopropyl acetate	43	4.680	4.680	(0.943)	960578	50.0000	47.17
187	n-Amyl acetate	43	8.451	8.451	(1.102)	645509	50.0000	45.79

189 n-Butyl acetate	43	7.210	7.210 (0.940)	532482	50.0000	48.63(H)
150 Allyl alcohol	57	2.772	2.772 (0.663)	282893	1000.00	967.48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.216	1.216	(0.291)	128302	200.000	203.38(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	785411	50.0000	47.27
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	667407	50.0000	53.10
202 Isobutylene	41	1.246	1.246	(0.298)	34523	50.0000	42.03(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	593990	50.0000	52.49

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Column phase: DB624

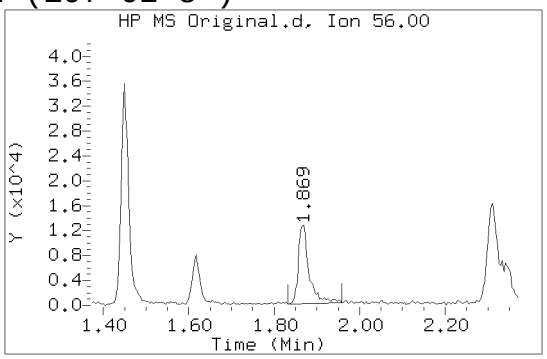
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Operator: PC
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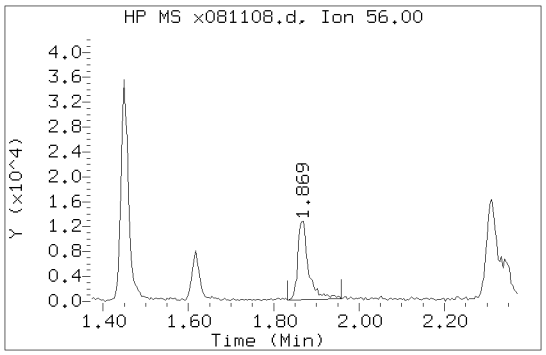
Acrolein (107-02-8)

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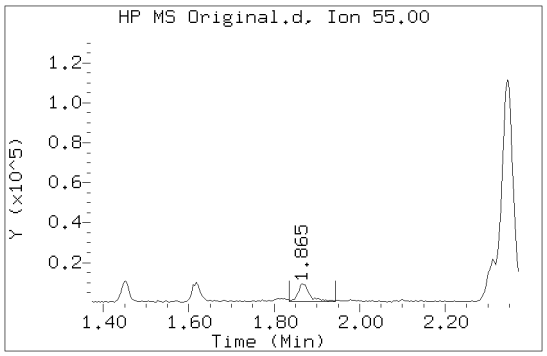
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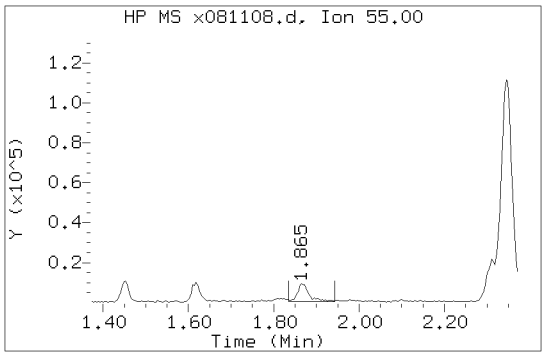
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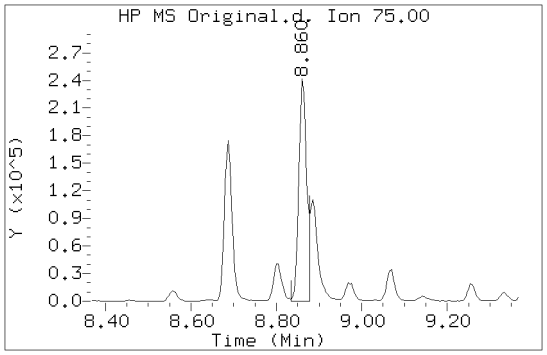
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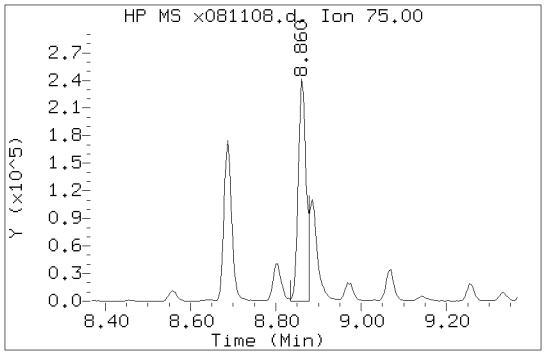
1,2,3-Trichloropropane (96-18-4)

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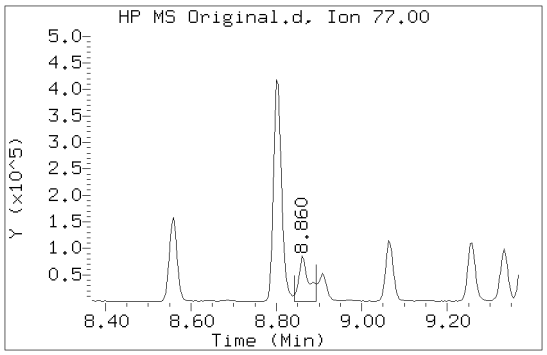
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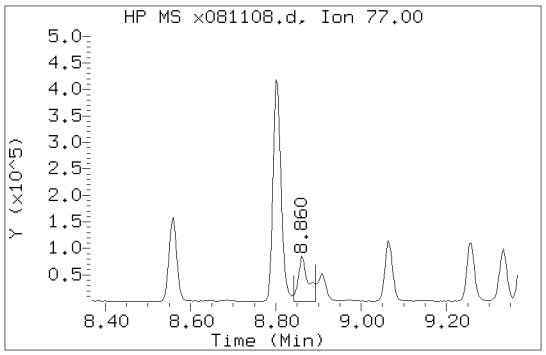
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BEFORE
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AFTER
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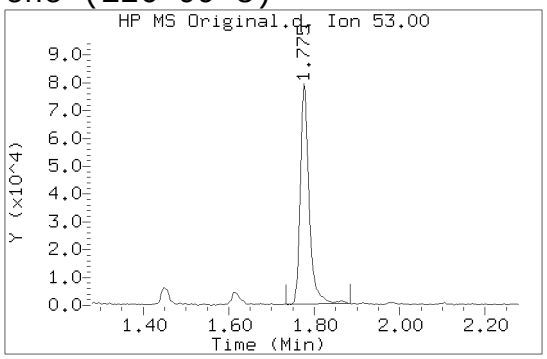


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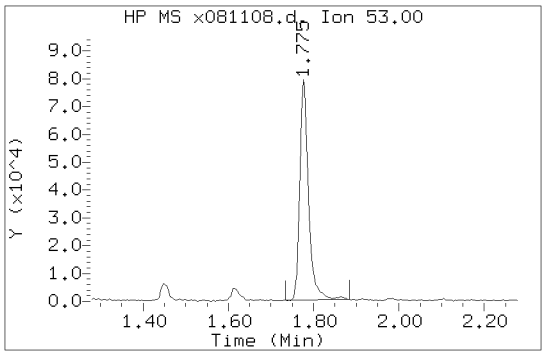
Chloroprene (126-99-8)

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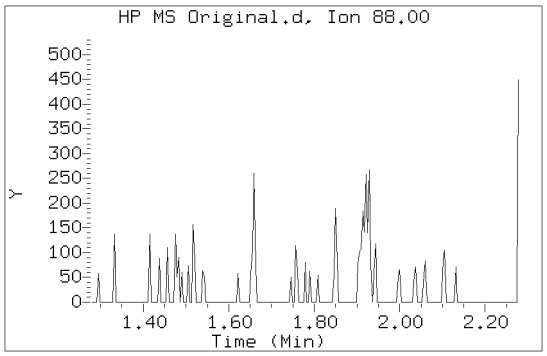
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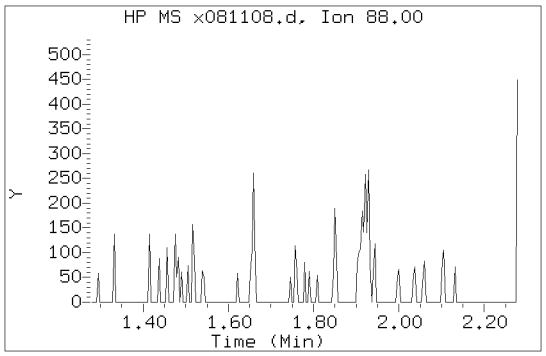
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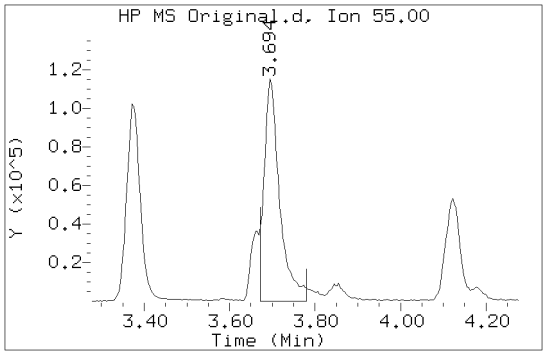
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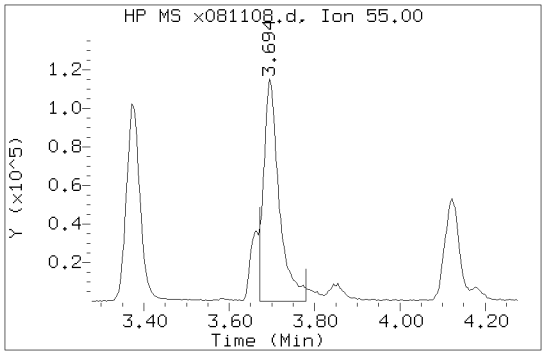
Methyl Acrylate (96-33-3)

Reason Code:

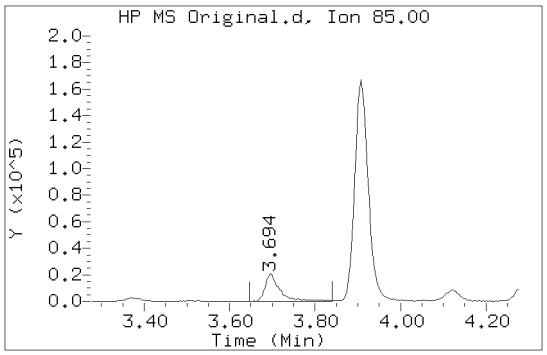
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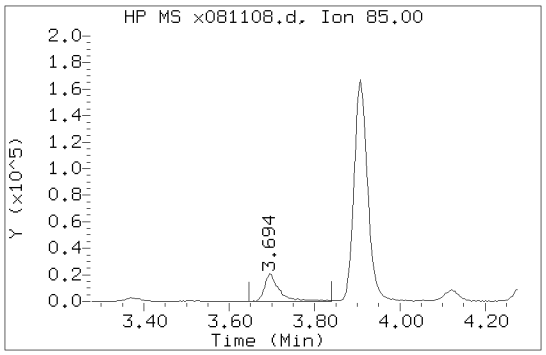
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BEFORE
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23:25



AFTER
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23-Aug-2023
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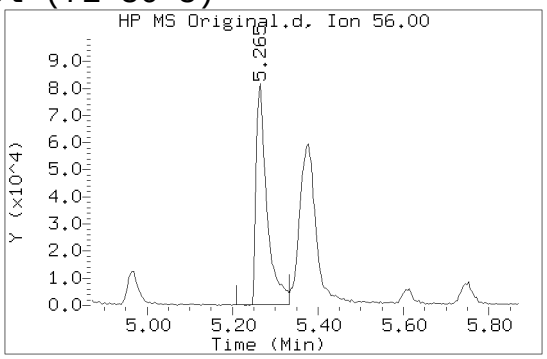


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LabSampID : VSTD050

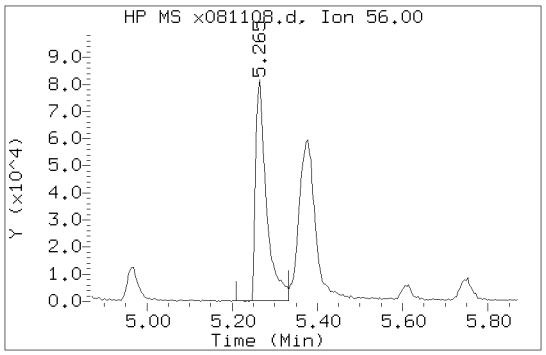
n-Butanol (71-36-3)

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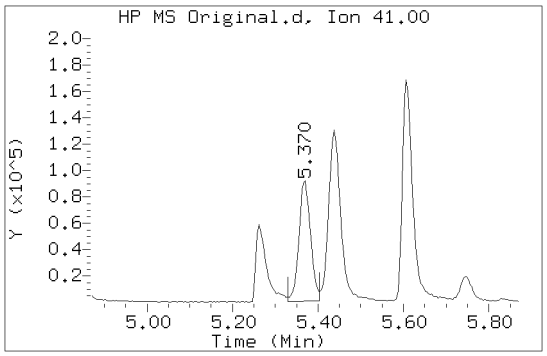
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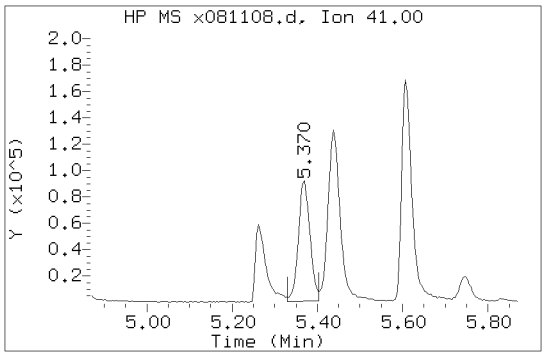
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BEFORE
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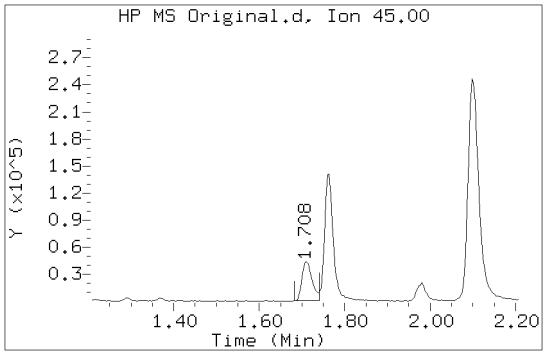
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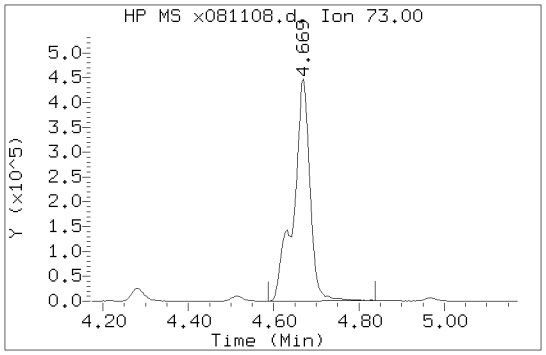
tert-Amyl methyl ether (974-05-08)

Reason Code:

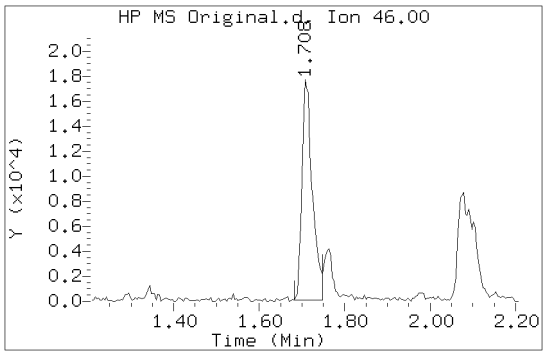
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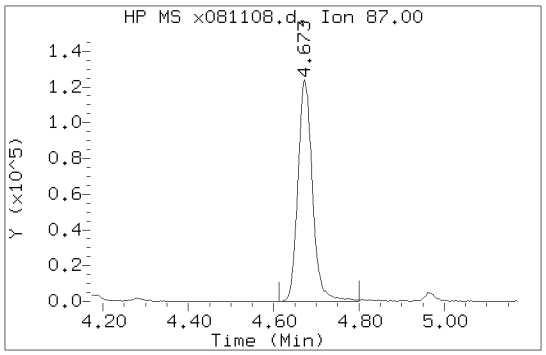
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BEFORE
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AFTER
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23-Aug-2023
11:11



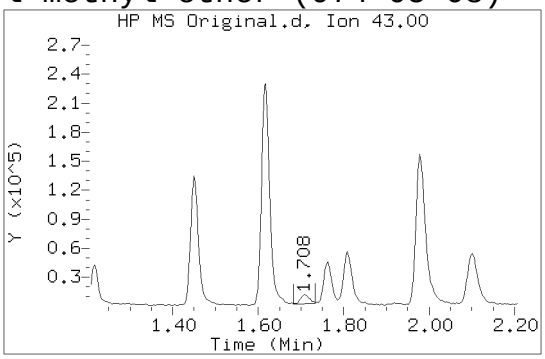
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Inj Date : 11-AUG-2023 13:56
InstruID : voa6.i
LabSampID : VSTD050

tert-Amyl methyl ether (974-05-08)

Reason Code:

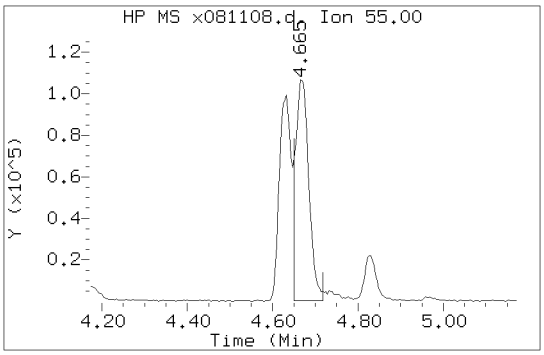
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AFTER

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11:11



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081109.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 11-AUG-2023 14:17
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
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Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 14:17 Cal File: X081109.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	640506	50.0000	
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	619342	100.000	104.73
3	Chloromethane	50	1.085	1.085	(0.260)	615114	100.000	98.69
4	Propionitrile	54	3.660	3.660	(0.875)	922962	1000.00	1034.73
5	Vinyl Chloride	62	1.149	1.149	(0.275)	792366	100.000	103.13
6	Bromomethane	94	1.343	1.343	(0.321)	402009	100.000	97.21
7	Chloroethane	64	1.407	1.407	(0.337)	487182	100.000	96.75
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	1143221	100.000	104.55
9	Acrolein	56	1.865	1.865	(0.446)	42571	200.000	205.58(M)
10	Acetone	43	1.977	1.977	(0.473)	518775	200.000	214.49
11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	621762	100.000	100.53
12	Isobutyl Alcohol	43	4.680	4.680	(1.119)	2032055	2000.00	2023.96
13	Acetonitrile	39	2.202	2.202	(0.527)	956437	1000.00	968.26
14	Allyl Chloride	41	2.202	2.202	(0.527)	1838118	100.000	94.20
15	Iodomethane	142	2.033	2.033	(0.486)	1612228	200.000	206.83
16	Acrylonitrile	53	2.536	2.536	(0.606)	573307	200.000	192.42
17	Methylene Chloride	84	2.307	2.307	(0.552)	703194	100.000	90.66
18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	2072249	100.000	93.93
19	Carbon Disulfide	76	2.074	2.074	(0.496)	3782366	200.000	206.06
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	694934	100.000	96.69
21	Vinyl Acetate	43	3.000	3.000	(0.718)	4323501	200.000	203.36

22 1,1-Dichloroethane	63	2.925	2.925 (0.700)	1279476	100.000	94.52
23 Chloroprene	53	1.775	1.775 (0.424)	279143	100.000	103.02

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081109.D Page 2
Report Date: 23-Aug-2023 11:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	3.581	3.581	(0.857)	533010	200.000	224.81(H)
25	Methacrylonitrile	41	3.821	3.821	(0.914)	650336	100.000	101.80(a)
26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	949589	100.000	104.52
27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	700204	100.000	101.44
28	Chloroform	83	3.908	3.908	(0.935)	1177710	100.000	99.27
29	Bromochloromethane	128	3.795	3.795	(0.908)	383542	100.000	97.75
$ 30	Dibromofluoromethane	113	4.099	4.099	(0.980)	623623	100.000	107.10
31	1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	1017489	100.000	106.82
32	1,1-Dichloropropene	75	4.279	4.279	(0.861)	871919	100.000	108.47(H)
33	1,2-Dichloroethane	62	4.556	4.556	(0.917)	944663	100.000	97.27
34	Carbon Tetrachloride	117	4.264	4.264	(0.858)	885624	100.000	104.37(H)
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	683505	100.000	105.68
* 36	1,4-Difluorobenzene	114	4.968	4.968	(1.000)	1021527	50.0000	
37	Benzene	78	4.511	4.511	(0.908)	2519479	100.000	100.13
38	Trichloroethene	130	5.205	5.205	(1.048)	731094	100.000	101.10
39	Bromodichloromethane	83	5.726	5.726	(1.152)	922185	100.000	98.40
40	Methyl Methacrylate	41	5.606	5.606	(1.341)	608078	100.000	103.18
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	484488	200.000	202.09
42	1,2-Dichloropropane	63	5.437	5.437	(1.094)	698386	100.000	98.43
43	2-Nitropropane	43	5.966	5.966	(1.427)	231004	100.000	98.19
44	Dibromomethane	93	5.553	5.553	(1.118)	455344	100.000	93.91
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	1413537	200.000	196.71
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.238)	1105204	100.000	103.06
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	1001756	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	2278710	100.000	96.65
49	Ethyl Methacrylate	69	6.786	6.786	(1.366)	947621	100.000	101.25(H)
50	Toluene	91	6.445	6.445	(0.841)	2797148	100.000	100.20
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.344)	937127	100.000	104.12
52	2-Hexanone	43	7.086	7.086	(0.924)	957766	200.000	198.56
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	546052	100.000	98.13
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	1090432	100.000	95.86
55	Dibromochloromethane	129	7.173	7.173	(0.935)	821062	100.000	102.24
56	Tetrachloroethene	164	6.925	6.925	(0.903)	624399	100.000	107.62
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	664741	100.000	97.79
58	1-Chlorohexane	55	7.694	7.694	(1.548)	641164	100.000	108.48
59	Chlorobenzene	112	7.690	7.690	(1.003)	1909593	100.000	99.28
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	762918	100.000	102.68
61	Ethylbenzene	106	7.799	7.799	(1.017)	979780	100.000	103.15
62	m,p-Xylenes	106	7.900	7.900	(1.030)	2516682	200.000	207.12
63	o-Xylene	106	8.237	8.237	(1.074)	1210239	100.000	101.07
64	Styrene	104	8.256	8.256	(1.077)	2100825	100.000	105.50
66	Bromoform	173	8.406	8.406	(1.096)	593398	100.000	109.52
67	Isopropylbenzene	105	8.560	8.560	(1.116)	3137727	100.000	105.45
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	923133	100.000	93.79
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1004363	100.000	101.27
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	604590	50.0000	
71	1,2,3-Trichloropropane	75	8.859	8.859	(0.917)	670063	100.000	92.58(M)
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	253731	100.000	100.45(H)
73	n-Propylbenzene	91	8.908	8.908	(0.922)	3787376	100.000	105.94
74	Bromobenzene	156	8.803	8.803	(0.912)	935104	100.000	96.76
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	2731821	100.000	104.53
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	2211513	100.000	96.60

77	4-Chlorotoluene	91	9.066	9.066 (0.939)	2657540	100.000	100.89
78	tert-Butylbenzene	119	9.332	9.332 (0.966)	2375406	100.000	106.09

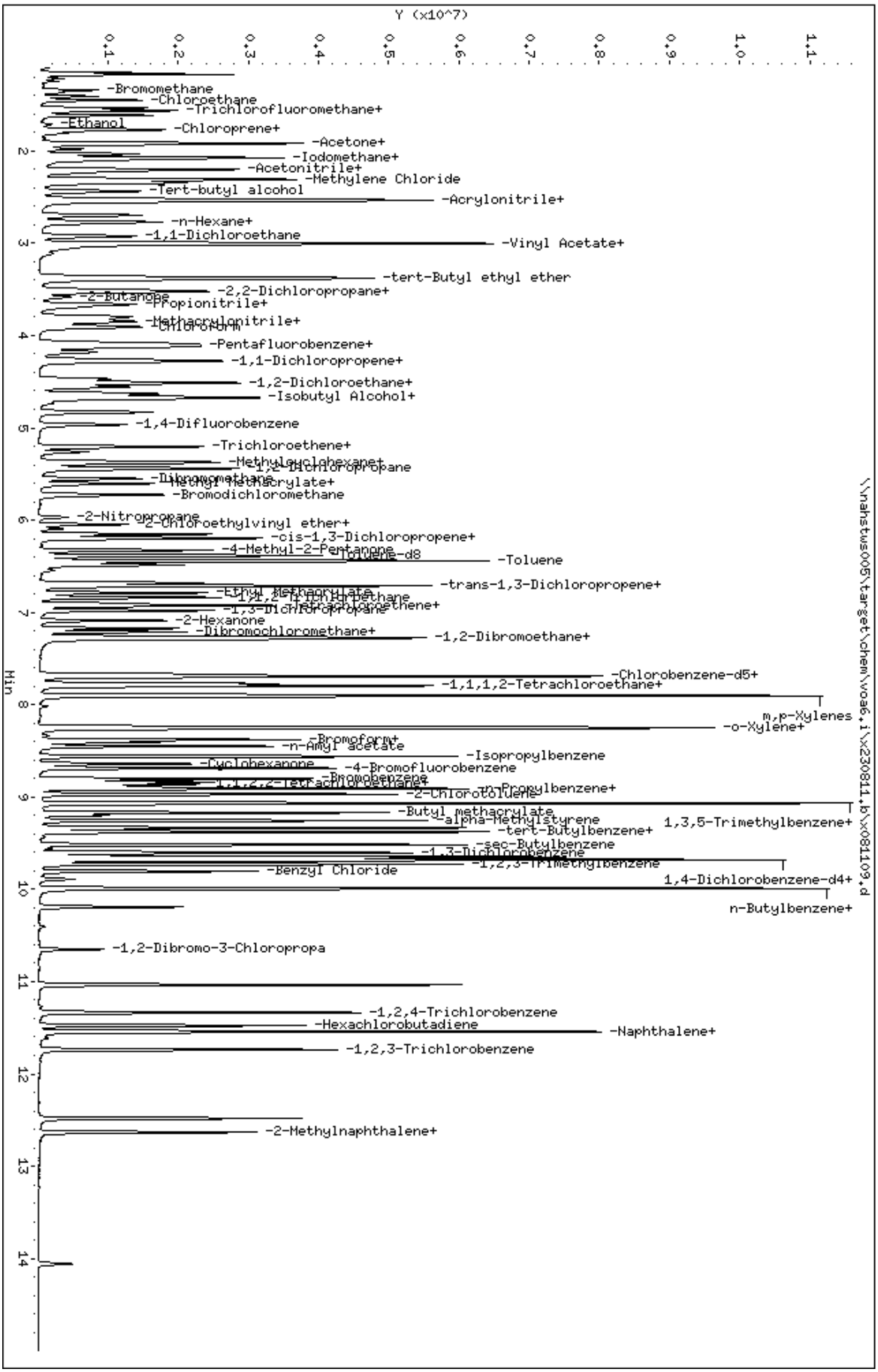
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	2757148	100.000	102.45
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	3405673	100.000	110.95
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	3028640	100.000	109.13
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1735850	100.000	100.86
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	1833747	100.000	99.48
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1725503	100.000	120.33
87	n-Butylbenzene	91	9.988	9.988	(1.034)	2801951	100.000	101.53
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	1749811	100.000	100.72
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	172155	100.000	103.43
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1231235	100.000	107.10
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	585400	100.000	100.10
92	Naphthalene	128	11.540	11.540	(1.195)	2873022	100.000	100.12
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	1130429	100.000	100.90
146	Methyl acetate	43	2.236	2.236	(0.535)	552039	100.000	95.91
138	Freon TF	101	1.921	1.921	(0.459)	646829	100.000	105.98
141	Cyclohexane	56	4.121	4.121	(0.986)	918146	100.000	105.04
142	Tetrahydrofuran	42	3.848	3.848	(0.920)	238972	200.000	191.26
147	Methylcyclohexane	55	5.381	5.381	(1.083)	1626175	100.000	105.96(A)
135	1,4-Dioxane	88	5.602	5.602	(1.340)	160962	2000.00	1977.09
132	n-Butanol	56	5.261	5.261	(1.258)	333572	2000.00	1902.85(M)
131	Methyl Acrylate	55	3.690	3.690	(0.883)	609738	100.000	96.35(M)
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	1626175	100.000	107.33
136	n-Hexane	57	2.772	2.772	(0.663)	828407	100.000	100.12
139	Diethyl ether	59	1.763	1.763	(0.422)	534429	100.000	94.53
148	Tert-butyl alcohol	59	2.438	2.438	(0.583)	1555693	2000.00	2028.00
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	902720	2000.00	2020.78
156	Diisopropyl ether	45	3.004	3.004	(0.719)	2276546	100.000	98.68
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	2730695	100.000	97.30
167	Ethanol	45	1.711	1.711	(0.409)	156245	2000.00	2087.66
172	tert-Butyl formate	59	4.631	4.631	(1.108)	1087048	200.000	169.85
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1605399	2000.00	1696.19
174	tert-Amyl methyl ether	73	4.668	4.668	(1.117)	2585317	100.000	104.04(M)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	2071260	100.000	99.87
176	tert-Amyl alcohol	59	4.631	4.631	(1.108)	1087048	2000.00	1702.30
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.351)	3336337	2000.00	1645.38
180	1-Methylnaphthalene	142	12.631	12.631	(1.308)	1249884	100.000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	674061	100.000	102.14
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	1103529	100.000	99.89
159	Propylene oxide	43	1.808	1.808	(0.433)	147717	200.000	142.89
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	359841	2000.00	2077.25
162	Butyl acrylate	55	8.248	8.248	(1.076)	1671356	100.000	102.43
163	Butyl methacrylate	41	9.167	9.167	(0.949)	1153168	100.000	94.10
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	3267261	100.000	99.45
182	Epichlorohydrin	57	6.093	6.093	(1.226)	235732	400.000	377.32
M 94	1,2-Dichloroethylene (total)	96				1395138	200.000	198.14
M 95	Xylenes (total)	106				3726921	300.000	308.19
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1341041	100.000	104.28
130	Ethyl Acetate	43	3.660	3.660	(0.875)	720887	100.000	98.05
134	Cyclohexanone	55	8.642	8.642	(0.895)	718649	2000.00	1866.58
185	Isoprene	39	1.775	1.775	(0.424)	247640	100.000	92.87
188	Isopropyl acetate	43	4.680	4.680	(0.942)	2034972	100.000	98.62
187	n-Amyl acetate	43	8.451	8.451	(1.102)	1465427	100.000	99.07

189 n-Butyl acetate	43	7.210	7.210 (0.940)	1179762	100.000	102.67(H)
150 Allyl alcohol	57	2.772	2.772 (0.663)	828407	2000.00	2002.64

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.216	1.216	(0.291)	249925	400.000	394.98(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1755774	100.000	100.69
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1435957	100.000	108.87
202 Isobutylene	41	1.246	1.246	(0.298)	77653	100.000	92.39(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	1375981	100.000	111.40

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.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

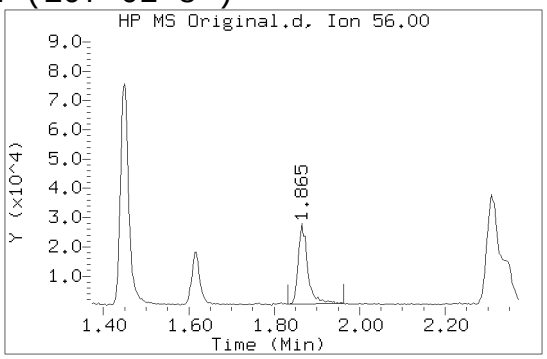
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Operator: PC
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InstruID : voa6.i
LabSampID : VSTD100

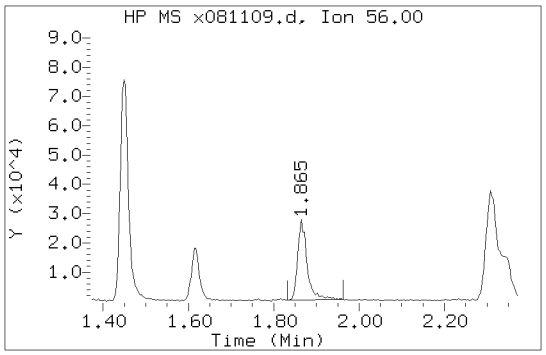
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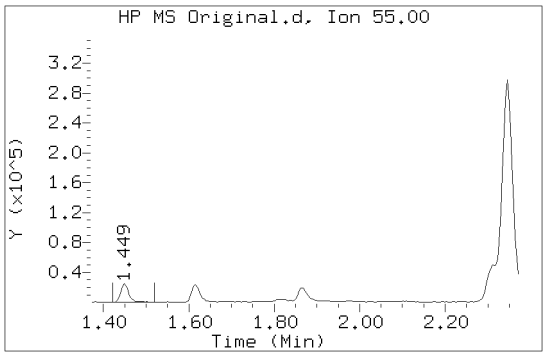
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12-Aug-2023
22:49



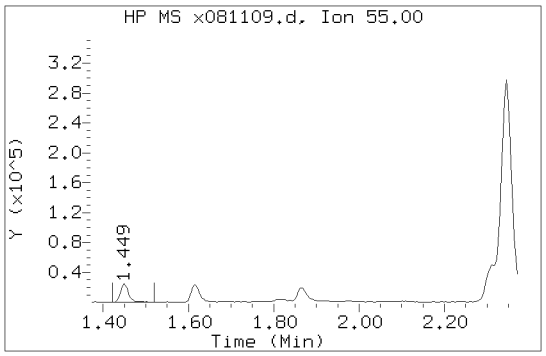
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12-Aug-2023
22:49



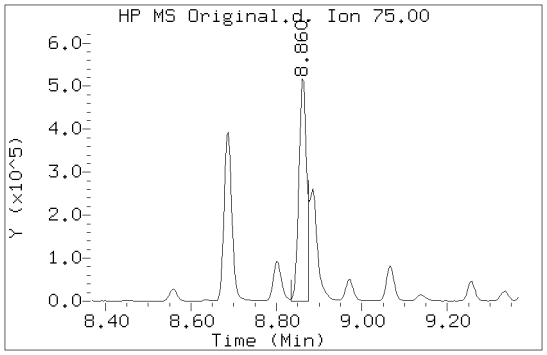
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23-Aug-2023
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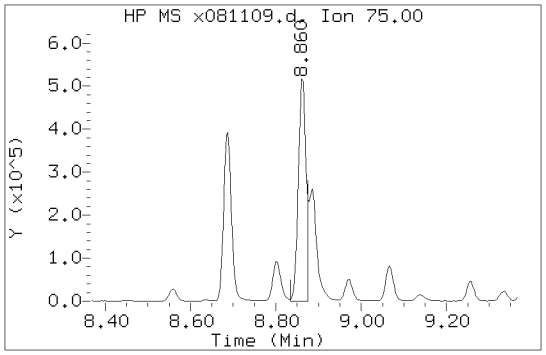
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Reason Code:

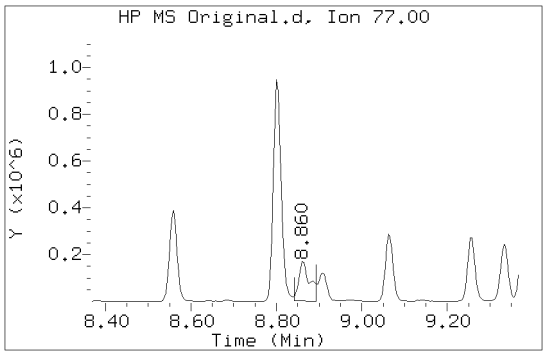
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12-Aug-2023
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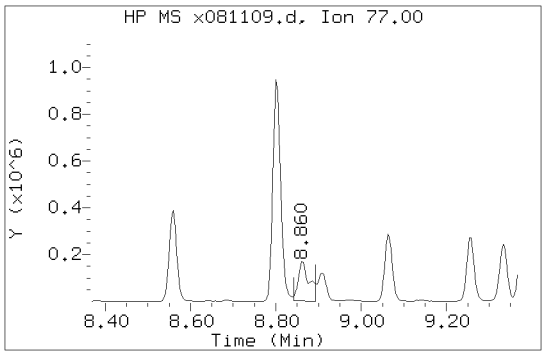
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23-Aug-2023
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BEFORE
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270717
HEIGHT
126842
12-Aug-2023
22:49



AFTER
MASS
77
AREA
313887
HEIGHT
169611
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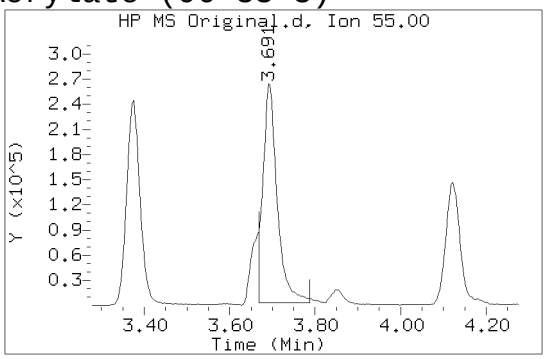


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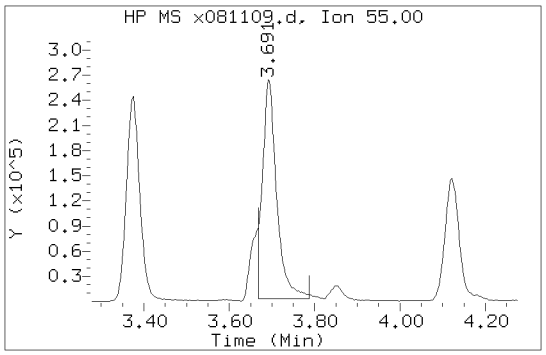
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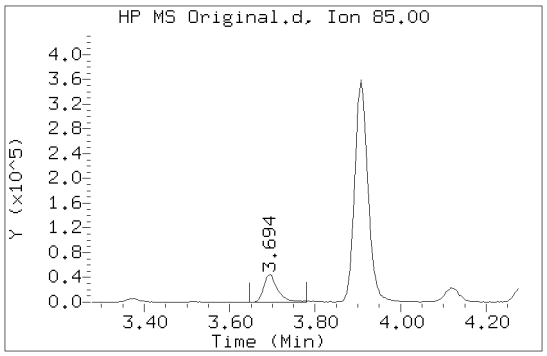
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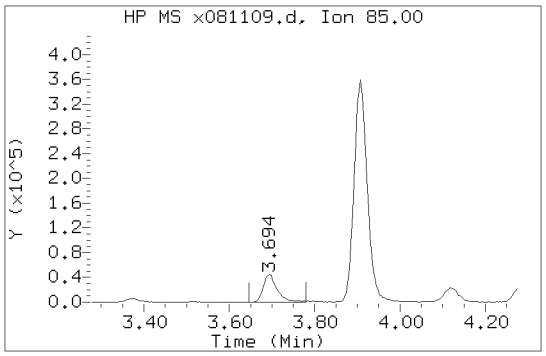
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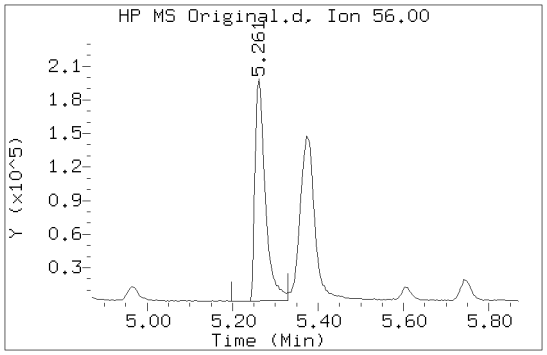
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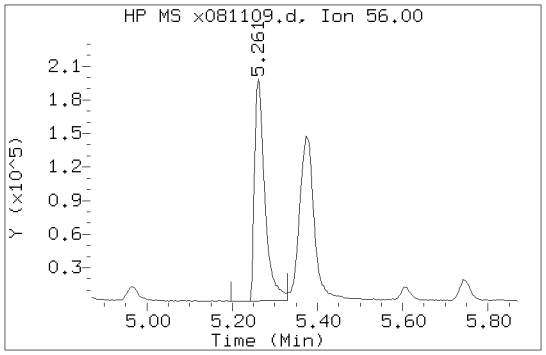
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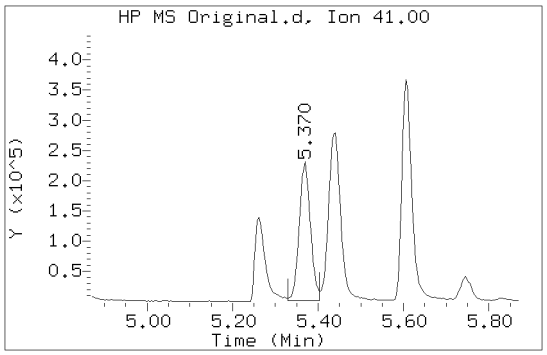
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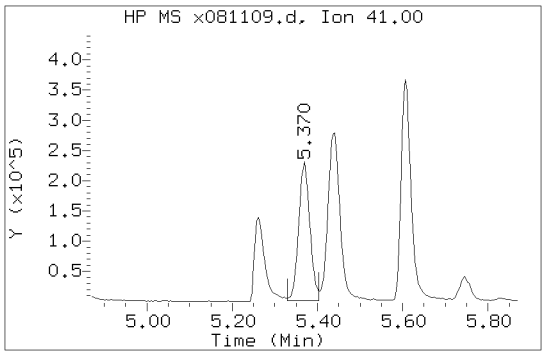
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BEFORE
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AFTER
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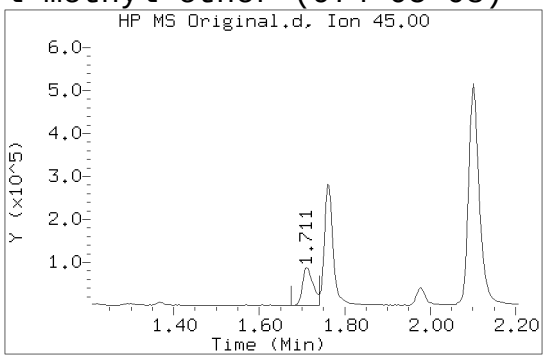


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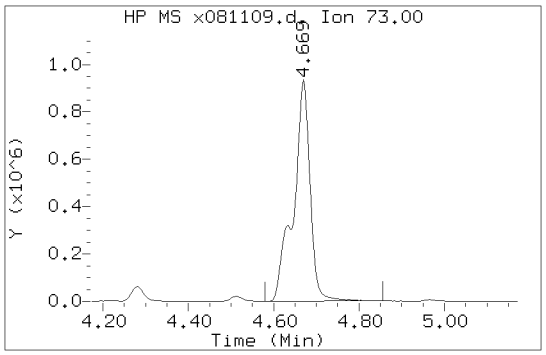
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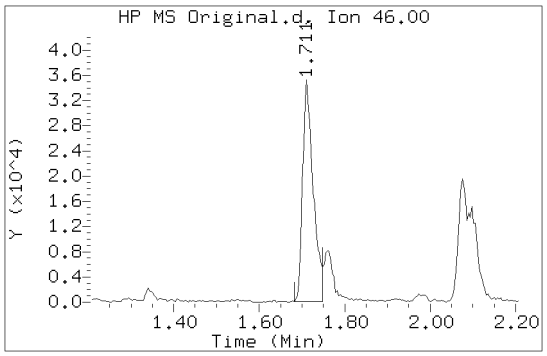
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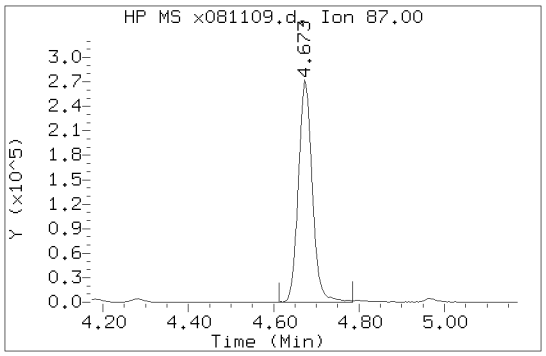
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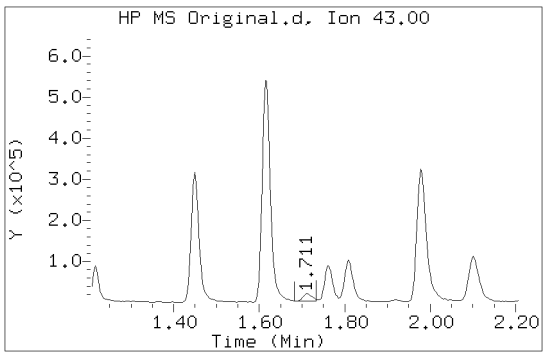
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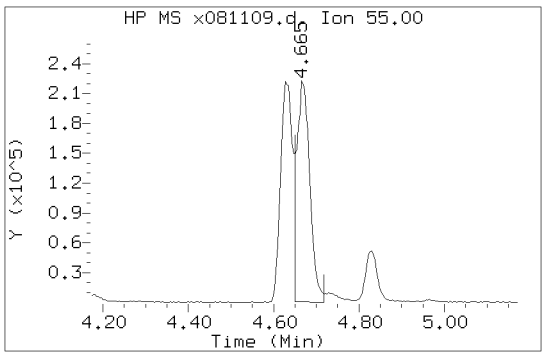
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BEFORE
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AFTER
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ALS Laboratory Group

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Inj Date : 11-AUG-2023 14:37
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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	682557	50.0000	
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	959873	150.000	152.01
3 Chloromethane	50	1.085	1.085	(0.260)	1033366	150.000	155.58
4 Propionitrile	54	3.660	3.660	(0.875)	1468203	1500.00	1544.59
5 Vinyl Chloride	62	1.149	1.149	(0.275)	1233792	150.000	150.70
6 Bromomethane	94	1.340	1.340	(0.320)	666095	150.000	151.14
7 Chloroethane	64	1.403	1.403	(0.336)	735302	150.000	137.03
8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	1752801	150.000	150.43
9 Acrolein	56	1.865	1.865	(0.446)	67360	300.000	306.58(M)
10 Acetone	43	1.977	1.977	(0.473)	740284	300.000	288.78
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	951773	150.000	144.41
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	3257307	3000.00	3044.45
13 Acetonitrile	39	2.202	2.202	(0.527)	1486538	1500.00	1412.20
14 Allyl Chloride	41	2.202	2.202	(0.527)	2841635	150.000	136.65
15 Iodomethane	142	2.033	2.033	(0.486)	2614120	300.000	300.47
16 Acrylonitrile	53	2.536	2.536	(0.606)	895015	300.000	281.89
17 Methylene Chloride	84	2.307	2.307	(0.552)	1057034	150.000	127.89
18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	3266231	150.000	138.93
19 Carbon Disulfide	76	2.074	2.074	(0.496)	5854691	300.000	299.32
20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	1070098	150.000	139.71

21 Vinyl Acetate	43	3.000	3.000 (0.718)	6781651	300.000	299.33
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	1933143	150.000	134.02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.424)	431981	150.000	149.60
	24 2-Butanone	43	3.581	3.581	(0.857)	818491	300.000	323.95(H)
	25 Methacrylonitrile	41	3.821	3.821	(0.914)	1028369	150.000	151.06(a)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	1464683	150.000	151.29
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	1081309	150.000	147.01
	28 Chloroform	83	3.908	3.908	(0.935)	1802396	150.000	142.57
	29 Bromochloromethane	128	3.795	3.795	(0.908)	589388	150.000	140.95
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	899883	150.000	145.32
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	1578919	150.000	155.56
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	1351358	150.000	162.53(H)
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	1466021	150.000	145.95
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	1397869	150.000	159.26(H)
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	1002392	150.000	145.86
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1056642	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	3908377	150.000	150.17
	38 Trichloroethene	130	5.205	5.205	(1.048)	1148907	150.000	153.60
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	1422892	150.000	146.79
	40 Methyl Methacrylate	41	5.606	5.606	(1.341)	959369	150.000	152.76
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	760740	300.000	306.78
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	1090098	150.000	148.54
	43 2-Nitropropane	43	5.969	5.969	(1.428)	366113	150.000	146.03
	44 Dibromomethane	93	5.549	5.549	(1.118)	707705	150.000	141.11
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	2231658	300.000	300.25
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1732908	150.000	156.23
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	1036166	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	3265638	150.000	133.91
	49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	1511594	150.000	156.14(H)
	50 Toluene	91	6.445	6.445	(0.841)	4375788	150.000	151.55
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	1478264	150.000	158.79
	52 2-Hexanone	43	7.086	7.086	(0.924)	1506153	300.000	301.88
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	848391	150.000	147.41
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	1713601	150.000	145.65
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	1287377	150.000	154.99
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	984117	150.000	163.99
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	1046609	150.000	148.86
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	1018816	150.000	166.64
	59 Chlorobenzene	112	7.690	7.690	(1.003)	3004501	150.000	151.02
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	1197588	150.000	155.84
	61 Ethylbenzene	106	7.799	7.799	(1.017)	1517668	150.000	154.47
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	3983320	300.000	316.94
	63 o-Xylene	106	8.237	8.237	(1.074)	1909743	150.000	154.19
	64 Styrene	104	8.256	8.256	(1.077)	3359185	150.000	163.10
	66 Bromoform	173	8.406	8.406	(1.096)	961597	150.000	171.58
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	4996090	150.000	162.33
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1494265	150.000	143.61
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1512449	150.000	147.32
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	639168	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	1156800	150.000	151.18(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	414511	150.000	158.66(H)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	6042746	150.000	159.89
	74 Bromobenzene	156	8.803	8.803	(0.912)	1487827	150.000	145.63
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.939)	4493957	150.000	162.66

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	3514835	150.000	145.23
77	4-Chlorotoluene	91	9.066	9.066 (0.939)	4275271	150.000	153.53

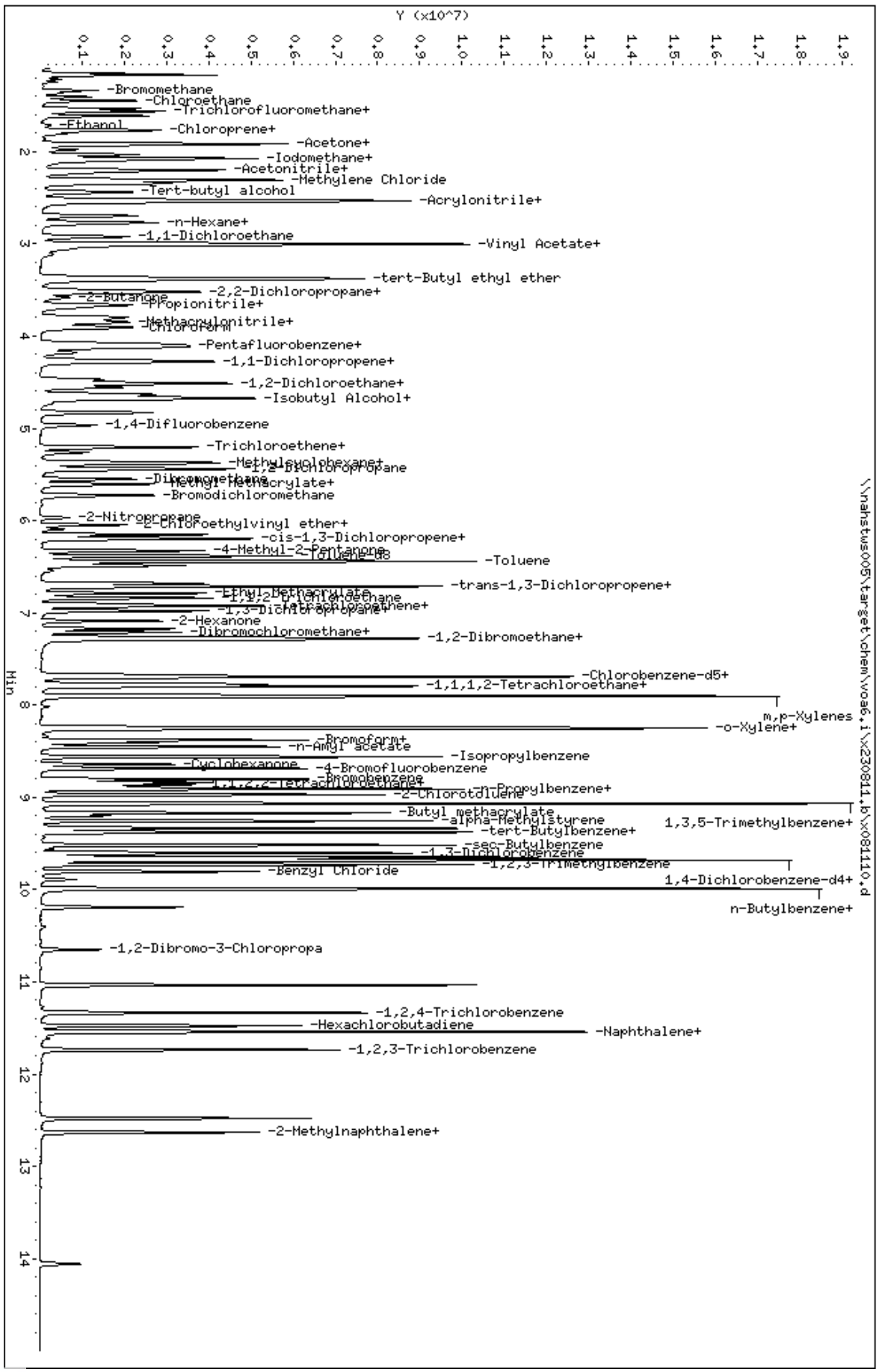
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.967)	3846046	150.000	162.48
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	4471143	150.000	157.15
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	5518096	150.000	170.05
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	4934529	150.000	168.19
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	2786963	150.000	153.17
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	2958090	150.000	151.80
86	Benzyl Chloride	91	9.804	9.804	(1.279)	2836865	150.000	191.27
87	n-Butylbenzene	91	9.992	9.992	(1.035)	4582820	150.000	155.98
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	2797744	150.000	152.33
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	274172	150.000	155.81
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	2015081	150.000	165.80
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	980720	150.000	102.28
92	Naphthalene	128	11.540	11.540	(1.195)	4621623	150.000	152.35
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	1834293	150.000	154.87
146	Methyl acetate	43	2.232	2.232	(0.534)	831062	150.000	135.49
138	Freon TF	101	1.921	1.921	(0.459)	1017540	150.000	155.92
141	Cyclohexane	56	4.121	4.121	(0.986)	1454384	150.000	155.24
142	Tetrahydrofuran	42	3.855	3.855	(0.922)	378357	300.000	284.16
147	Methylcyclohexane	55	5.381	5.381	(1.084)	2620423	150.000	165.07(A)
135	1,4-Dioxane	88	5.602	5.602	(1.340)	255690	3000.00	2947.15
132	n-Butanol	56	5.261	5.261	(1.258)	550912	3000.00	2911.71(M)
131	Methyl Acrylate	55	3.690	3.690	(0.883)	959104	150.000	142.23(M)
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	2620423	150.000	162.30
136	n-Hexane	57	2.772	2.772	(0.663)	1302336	150.000	104.64
139	Diethyl ether	59	1.760	1.760	(0.421)	835572	150.000	138.69
148	Tert-butyl alcohol	59	2.438	2.438	(0.583)	2402568	3000.00	2944.86
149	Isopropyl alcohol	45	2.101	2.101	(0.502)	1400869	3000.00	2948.60
156	Diisopropyl ether	45	3.004	3.004	(0.719)	3528580	150.000	143.53
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	4504971	150.000	151.84
167	Ethanol	45	1.715	1.715	(0.410)	233477	3000.00	2937.54
172	tert-Butyl formate	59	4.631	4.631	(1.108)	1770077	300.000	259.53(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	2650834	3000.00	2707.74
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	4163456	150.000	160.73
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	3316388	150.000	150.06
176	tert-Amyl alcohol	59	4.631	4.631	(1.108)	1770077	3000.00	2601.15
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	5656224	3000.00	2696.79
180	1-Methylnaphthalene	142	12.631	12.631	(1.308)	2106136	150.000	(a)
140	1,3-Butadiene	54	1.171	1.171	(0.280)	1049812	150.000	149.29
152	Amyl alcohol	42	6.978	6.978	(0.910)	67582	3000.00	787.93
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	1708397	150.000	145.12
159	Propylene oxide	43	1.808	1.808	(0.433)	236658	300.000	214.83
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	607296	3000.00	3389.32
162	Butyl acrylate	55	8.248	8.248	(1.076)	2811097	150.000	166.56
163	Butyl methacrylate	41	9.167	9.167	(0.949)	1943371	150.000	150.00
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	5365427	150.000	150.98
182	Epichlorohydrin	57	6.093	6.093	(1.227)	379989	600.000	588.01
M 94	1,2-Dichloroethylene (total)	96				2151407	300.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	2162289	150.000	159.04
130	Ethyl Acetate	43	3.660	3.660	(0.875)	1105978	150.000	141.16
134	Cyclohexanone	55	8.642	8.642	(0.895)	1021802	3000.00	2510.40
185	Isoprene	39	1.775	1.775	(0.424)	382366	150.000	134.57
188	Isopropyl acetate	43	4.680	4.680	(0.943)	3257307	150.000	152.62

187 n-Amyl acetate	43	8.451	8.451 (1.102)	2430781	150.000	158.87
189 n-Butyl acetate	43	7.210	7.210 (0.940)	1860831	150.000	156.57(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.663)	1302336	3000.00	2098.45
194 Acetaldehyde	44	1.216	1.216	(0.291)	348100	600.000	518.89(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	2955760	150.000	163.89
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	2323556	150.000	170.32
202 Isobutylene	41	1.246	1.246	(0.298)	129122	150.000	144.17(M)
205 2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	2250475	150.000	172.35

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.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\nahstws005\target\chem\voa6_i\x230811_b\x081110_d
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Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9;
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Column phase: DB624

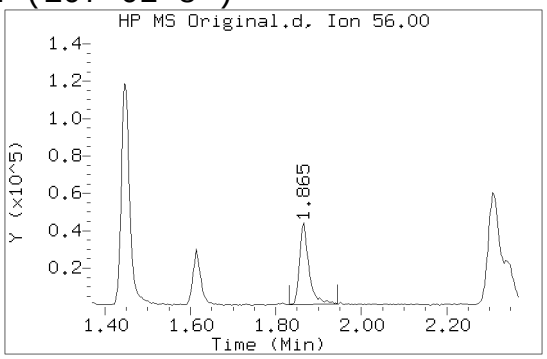
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Operator: PC
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LabSampID : VSTD150

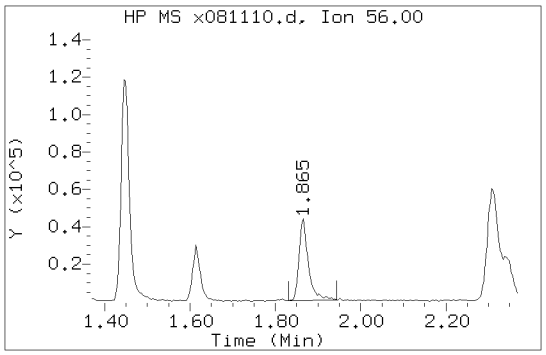
Acrolein (107-02-8)

Reason Code:

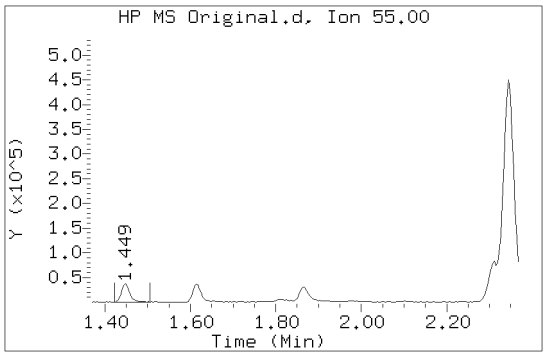
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12-Aug-2023
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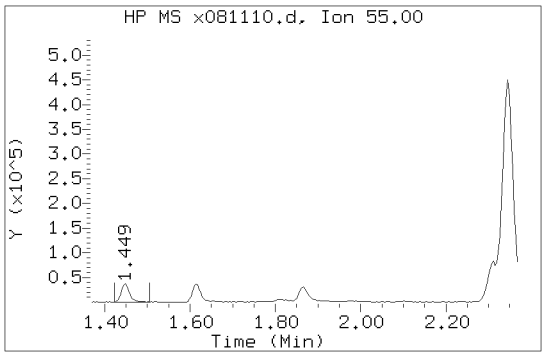
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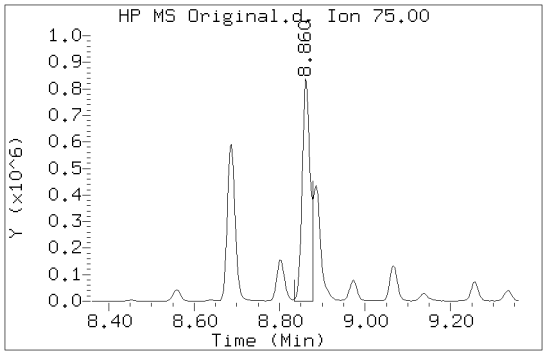
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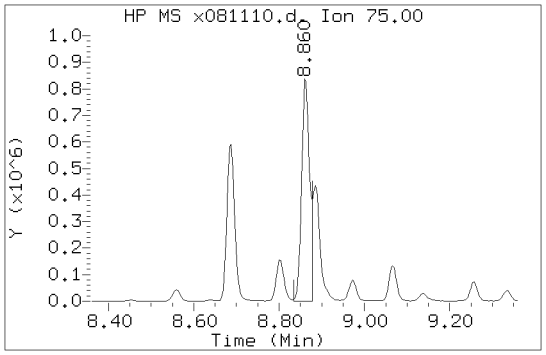
1,2,3-Trichloropropane (96-18-4)

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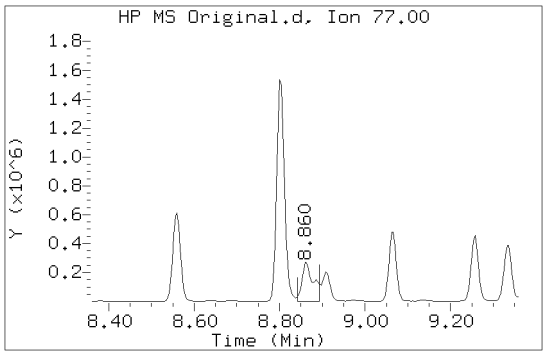
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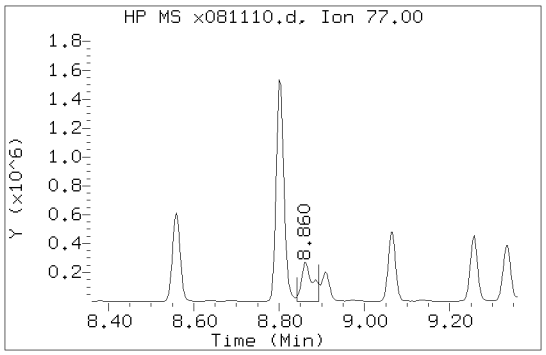
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BEFORE
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AFTER
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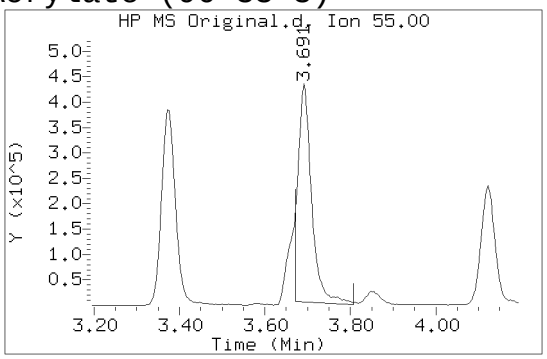


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LabSampID : VSTD150

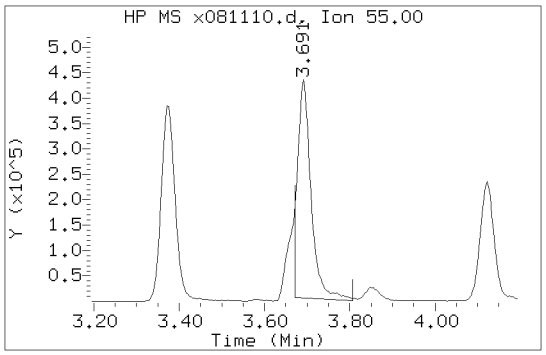
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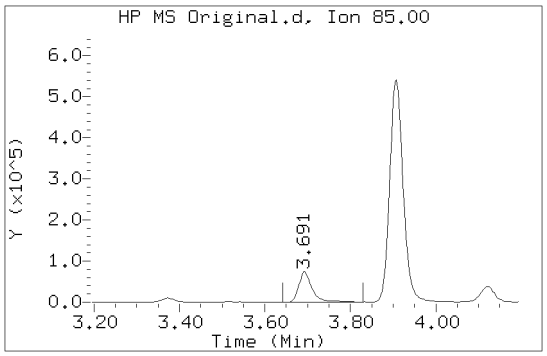
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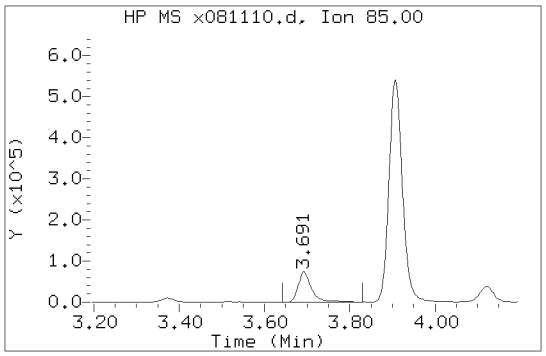
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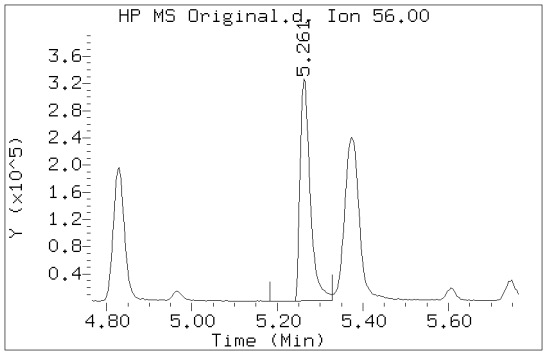
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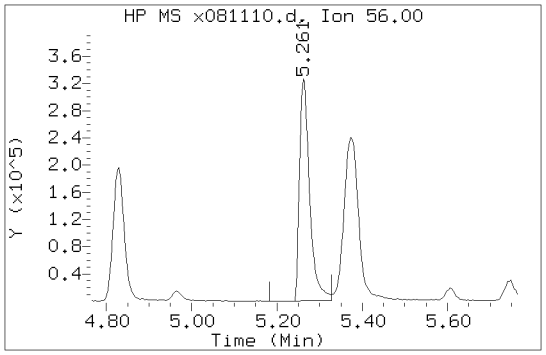
n-Butanol (71-36-3)

Reason Code:

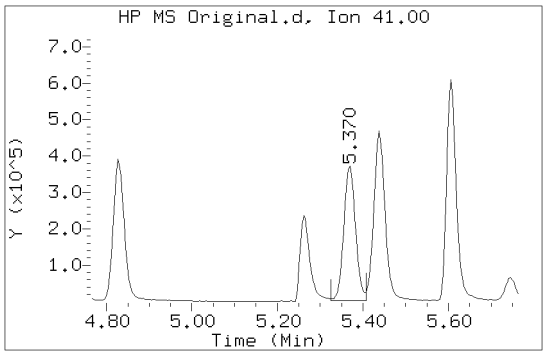
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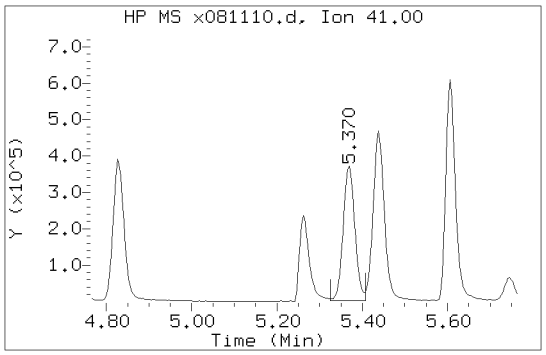
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BEFORE
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AFTER
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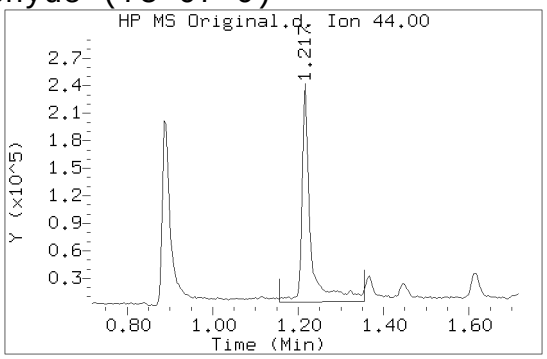


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LabSampID : VSTD150

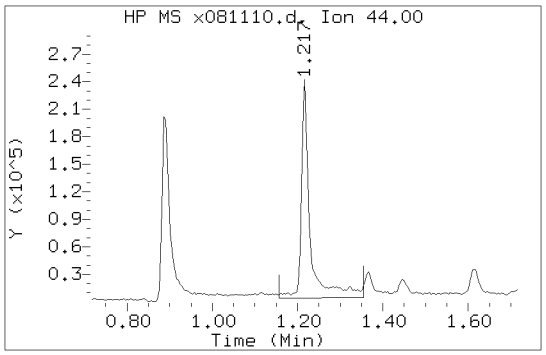
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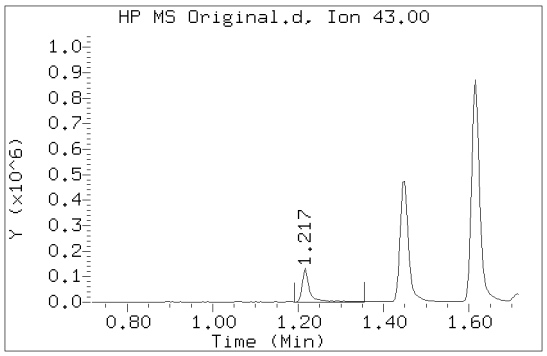
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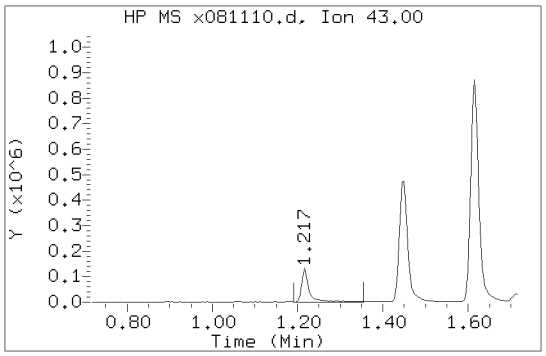
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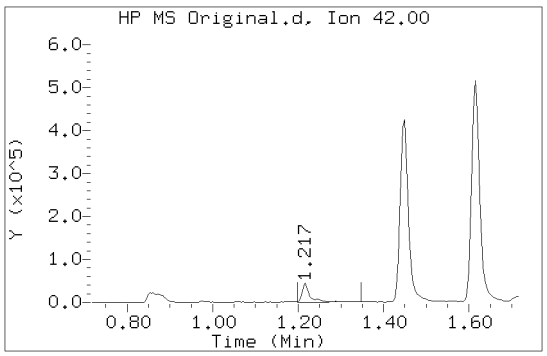
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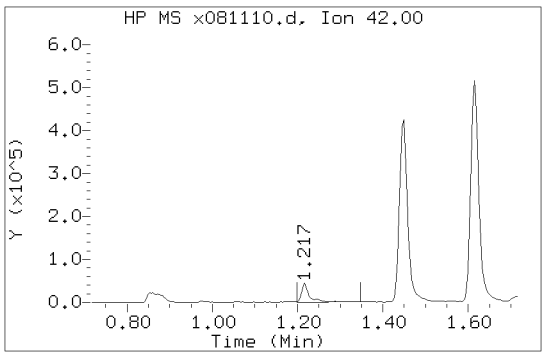
AFTER
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12-Aug-2023
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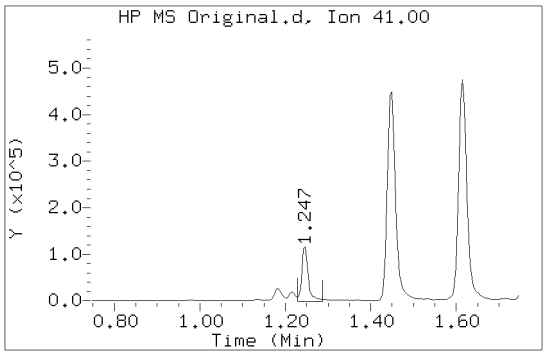
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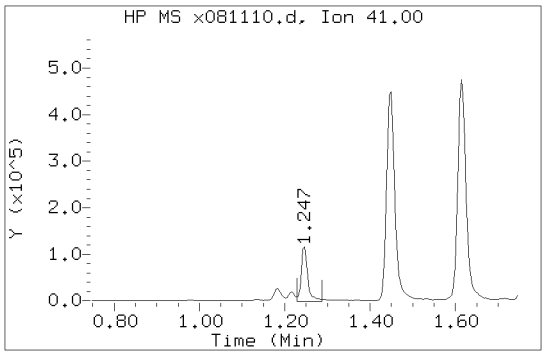
Isobutylene (115-11-7)

Reason Code:

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AFTER
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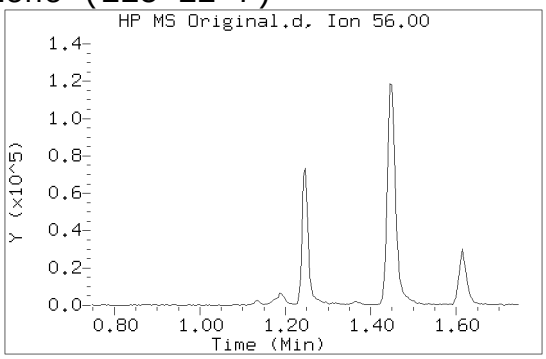


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Inj Date : 11-AUG-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

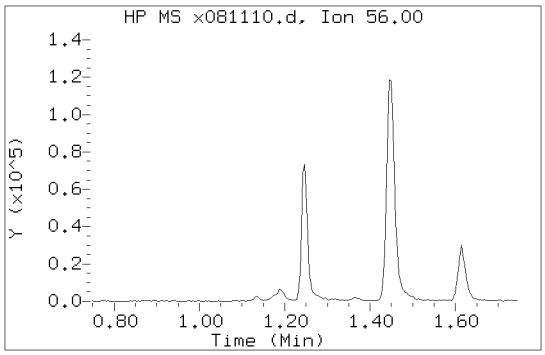
Isobutylene (115-11-7)

Reason Code:

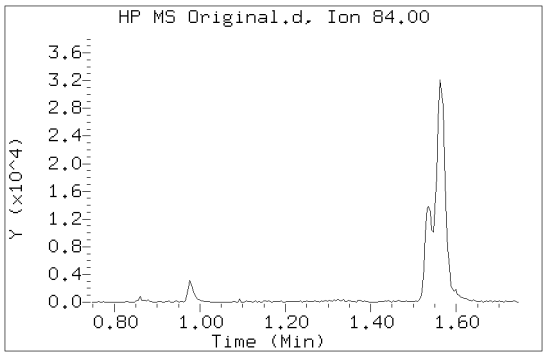
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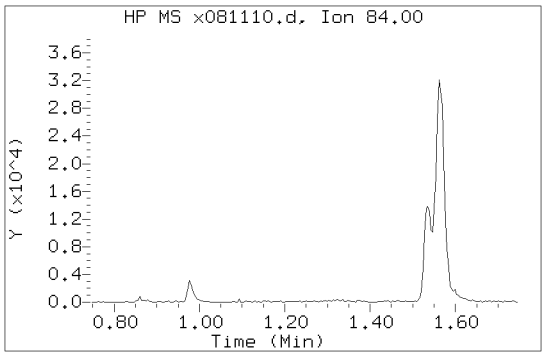
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AFTER
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12-Aug-2023
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081111.D Page 1
Report Date: 23-Aug-2023 11:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081111.D
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Inj Date : 11-AUG-2023 14:57
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\8260W.m
Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 14:37 Cal File: X081110.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	697355	50.0000	
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	1273733	200.000	197.23
3 Chloromethane	50	1.085	1.085	(0.260)	1501670	200.000	221.29(A)
4 Propionitrile	54	3.664	3.664	(0.876)	2016279	2000.00	2076.17(A)
5 Vinyl Chloride	62	1.149	1.149	(0.275)	1625625	200.000	194.35
6 Bromomethane	94	1.336	1.336	(0.320)	956388	200.000	212.41(A)
7 Chloroethane	64	1.403	1.403	(0.336)	978448	200.000	178.47
8 Trichlorofluoromethane	101	1.561	1.561	(0.373)	2287228	200.000	192.13
9 Acrolein	56	1.861	1.861	(0.445)	87268	400.000	389.50(M)
10 Acetone	43	1.977	1.977	(0.473)	1042142	400.000	399.64
11 1,1-Dichloroethene	96	1.917	1.917	(0.459)	1251936	200.000	185.92
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	4536512	4000.00	4150.09(A)
13 Acetonitrile	39	2.202	2.202	(0.527)	2017237	2000.00	1875.70
14 Allyl Chloride	41	2.202	2.202	(0.527)	3835902	200.000	180.55
15 Iodomethane	142	2.029	2.029	(0.485)	3724033	400.000	398.58
16 Acrylonitrile	53	2.536	2.536	(0.606)	1202275	400.000	370.63
17 Methylene Chloride	84	2.307	2.307	(0.552)	1425676	200.000	168.83
18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	4430970	200.000	184.47
19 Carbon Disulfide	76	2.074	2.074	(0.496)	7789426	400.000	389.78
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	1432064	200.000	183.01

21 Vinyl Acetate	43	3.000	3.000 (0.718)	9226020	400.000	398.58
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	2596693	200.000	176.20

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081111.D Page 2
Report Date: 23-Aug-2023 11:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	558535	200.000	189.32
	24 2-Butanone	43	3.585	3.585	(0.857)	1142340	400.000	442.53(AH)
	25 Methacrylonitrile	41	3.821	3.821	(0.914)	1395789	200.000	200.68(aA)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	1951668	200.000	197.32
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	1468934	200.000	195.47
	28 Chloroform	83	3.904	3.904	(0.934)	2441223	200.000	189.00
	29 Bromochloromethane	128	3.795	3.795	(0.908)	772992	200.000	180.94
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	1262400	200.000	199.84
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	2104490	200.000	202.94(A)
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	1801498	200.000	210.60(AH)
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	1992723	200.000	192.82
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	1835945	200.000	203.31(AH)
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	1400428	200.000	199.86
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1087107	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	5273785	200.000	196.95
	38 Trichloroethene	130	5.205	5.205	(1.048)	1543357	200.000	200.55(A)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	1962606	200.000	196.80
	40 Methyl Methacrylate	41	5.606	5.606	(1.341)	1323466	200.000	206.26(A)
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	1056330	400.000	414.05(A)
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	1494470	200.000	197.93
	43 2-Nitropropane	43	5.966	5.966	(1.427)	514639	200.000	200.92(A)
	44 Dibromomethane	93	5.549	5.549	(1.118)	976857	200.000	189.32
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	3137692	400.000	405.52(A)
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	2420159	200.000	212.08(A)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	1078660	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	4669605	200.000	183.94
	49 Ethyl Methacrylate	69	6.786	6.786	(1.367)	2101737	200.000	211.02(H)
	50 Toluene	91	6.445	6.445	(0.841)	5994422	200.000	199.44
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	2078683	200.000	217.04(A)
	52 2-Hexanone	43	7.086	7.086	(0.924)	2163687	400.000	416.59(A)
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	1182722	200.000	197.40
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	2389306	200.000	195.08
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	1803342	200.000	208.55(A)
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	1301957	200.000	208.40(A)
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	1466476	200.000	200.36(A)
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	1360685	200.000	216.33(A)
	59 Chlorobenzene	112	7.690	7.690	(1.003)	4161283	200.000	200.93(A)
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	1662627	200.000	207.83(A)
	61 Ethylbenzene	106	7.799	7.799	(1.017)	2073572	200.000	202.74(A)
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	5408322	400.000	413.37(A)
	63 o-Xylene	106	8.241	8.241	(1.075)	2648551	200.000	205.42(A)
	64 Styrene	104	8.256	8.256	(1.077)	4660554	200.000	217.37(A)
	66 Bromoform	173	8.406	8.406	(1.096)	1355440	200.000	232.33(A)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	6772619	200.000	211.38(A)
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	2090395	200.000	192.13
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	2160189	200.000	202.02(A)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	668386	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	1487796	200.000	185.94(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	586400	200.000	215.61(AH)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	8136250	200.000	205.87(A)
	74 Bromobenzene	156	8.803	8.803	(0.911)	2064664	200.000	193.26
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	6150520	200.000	212.88(A)

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	4820721	200.000	190.49
77	4-Chlorotoluene	91	9.066	9.066 (0.938)	5936857	200.000	203.88(A)

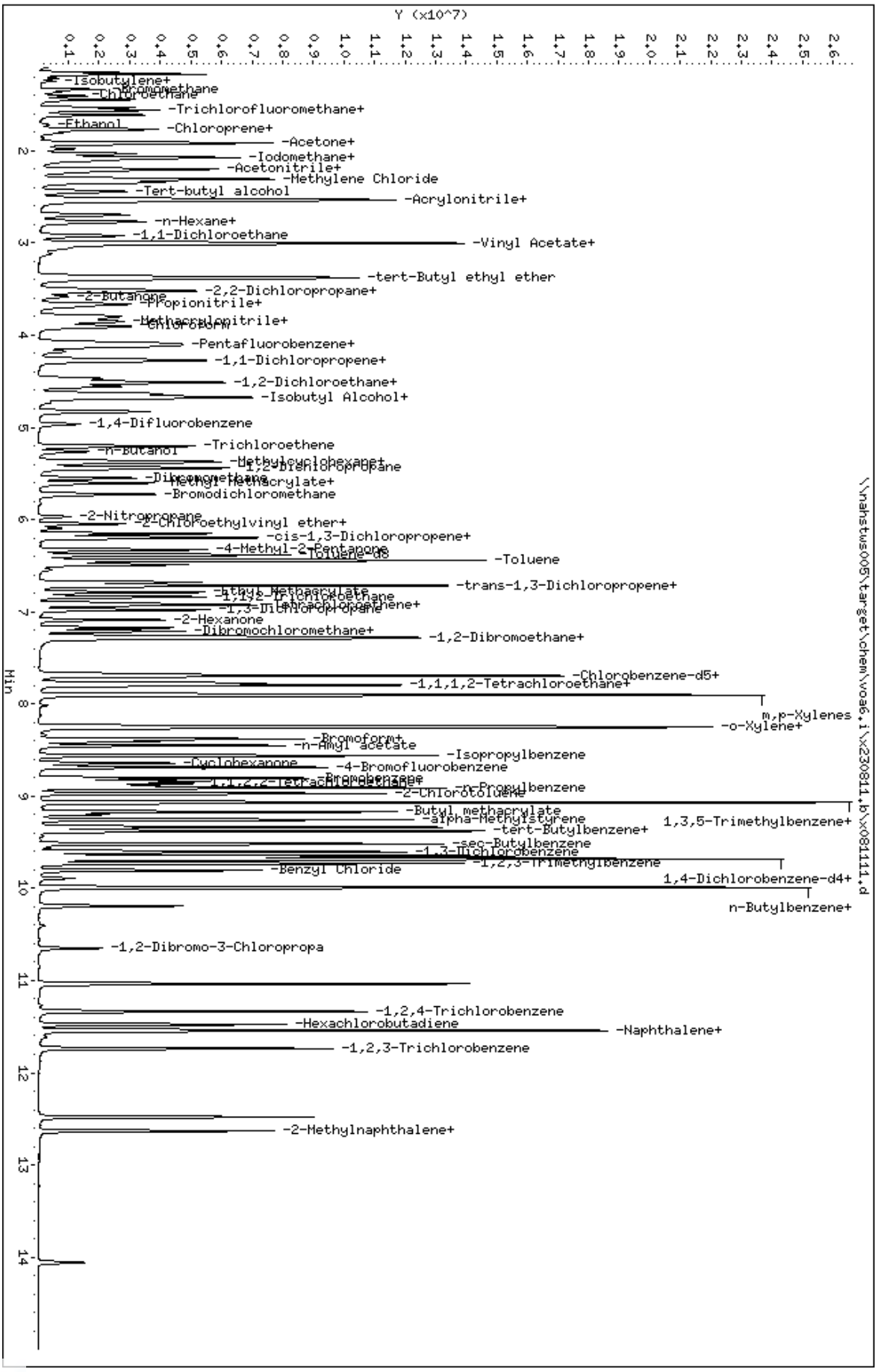
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	5131888	200.000	207.33(A)
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	6083993	200.000	204.49(A)
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	7245513	200.000	213.53(A)
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	6561798	200.000	213.87(A)
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	3814202	200.000	200.47(A)
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	4054602	200.000	198.98
86	Benzyl Chloride	91	9.804	9.804	(1.279)	3968483	200.000	257.03(A)
87	n-Butylbenzene	91	9.992	9.992	(1.034)	6046266	200.000	196.26
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	3878524	200.000	201.94(A)
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	382647	200.000	207.95(A)
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	2749171	200.000	216.31(A)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	1270952	200.000	81.27
92	Naphthalene	128	11.540	11.540	(1.194)	6417842	200.000	202.31(A)
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	2508449	200.000	202.54(A)
146	Methyl acetate	43	2.232	2.232	(0.534)	1140139	200.000	181.94
138	Freon TF	101	1.917	1.917	(0.459)	1294079	200.000	193.81
141	Cyclohexane	56	4.121	4.121	(0.986)	1872161	200.000	195.12
142	Tetrahydrofuran	42	3.851	3.851	(0.921)	514614	400.000	378.29
147	Methylcyclohexane	55	5.381	5.381	(1.084)	3637612	200.000	222.73(A)
135	1,4-Dioxane	88	5.602	5.602	(1.340)	359997	4000.00	4061.37(A)
132	n-Butanol	56	5.265	5.265	(1.259)	804319	4000.00	4131.68(AM)
131	Methyl Acrylate	55	3.690	3.690	(0.883)	1475964	200.000	214.23(AM)
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	3637612	200.000	220.52(A)
136	n-Hexane	57	2.772	2.772	(0.663)	1640105	200.000	90.44
139	Diethyl ether	59	1.760	1.760	(0.421)	1116371	200.000	181.37
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	3353385	4000.00	4027.81(A)
149	Isopropyl alcohol	45	2.104	2.104	(0.503)	1951400	4000.00	4024.91(A)
156	Diisopropyl ether	45	3.008	3.008	(0.719)	4888377	200.000	194.63
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	6210977	200.000	200.20(A)
167	Ethanol	45	1.715	1.715	(0.410)	323730	4000.00	3995.66
172	tert-Butyl formate	59	4.635	4.635	(1.108)	2845653	400.000	408.39(A)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	3745822	4000.00	3675.50
174	tert-Amyl methyl ether	73	4.668	4.668	(1.117)	5778342	200.000	218.34(A)
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.809)	4543666	200.000	201.23(A)
176	tert-Amyl alcohol	59	4.635	4.635	(1.108)	2845653	4000.00	4092.98(A)
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	8088763	4000.00	3748.50
180	1-Methylnaphthalene	142	12.631	12.631	(1.307)	2948716	200.000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.279)	1392141	200.000	193.77
152	Amyl alcohol	42	6.903	6.903	(0.900)	997865	4000.00	11175.66(A)
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	2327586	200.000	193.53
159	Propylene oxide	43	1.808	1.808	(0.433)	306483	400.000	272.31
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	884143	4000.00	4740.01(A)
162	Butyl acrylate	55	8.248	8.248	(1.076)	3963766	200.000	225.60(A)
163	Butyl methacrylate	41	9.171	9.171	(0.949)	2680466	200.000	197.85
164	Dicyclopentadiene	66	9.684	9.684	(1.002)	7593221	200.000	199.60
182	Epichlorohydrin	57	6.093	6.093	(1.227)	517519	800.000	778.39
M 94	1,2-Dichloroethylene (total)	96				2900998	400.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	2962283	200.000	208.36(A)
130	Ethyl Acetate	43	3.664	3.664	(0.876)	1528506	200.000	190.95
134	Cyclohexanone	55	8.642	8.642	(0.894)	1443338	4000.00	3391.04
185	Isoprene	39	1.775	1.775	(0.424)	506509	200.000	174.48
188	Isopropyl acetate	43	4.680	4.680	(0.943)	4482376	200.000	204.13(A)

187 n-Amyl acetate	43	8.451	8.451 (1.102)	3437340	200.000	215.81(A)
189 n-Butyl acetate	43	7.210	7.210 (0.940)	2665446	200.000	215.43(AH)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
150 Allyl alcohol	57	2.772	2.772	(0.663)	1640105	4000.00	1820.96
194 Acetaldehyde	44	1.216	1.216	(0.291)	422211	800.000	617.62(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	4122499	200.000	219.57
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	3243147	200.000	228.36(A)
202 Isobutylene	41	1.246	1.246	(0.298)	196721	200.000	214.99(AM)
205 2-Ethylhexyl Acrylate	55	11.543	11.543	(1.195)	3132046	200.000	229.38(A)

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.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD200;VSTD200;1;10;
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Column phase: DB624

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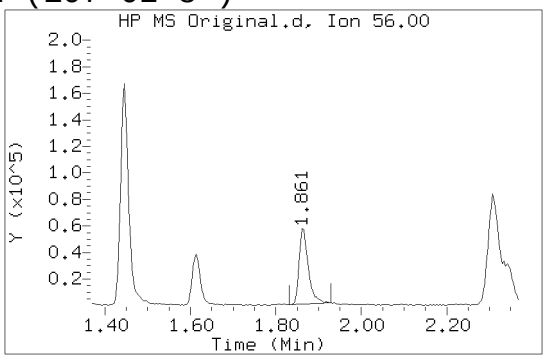
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Operator: PC
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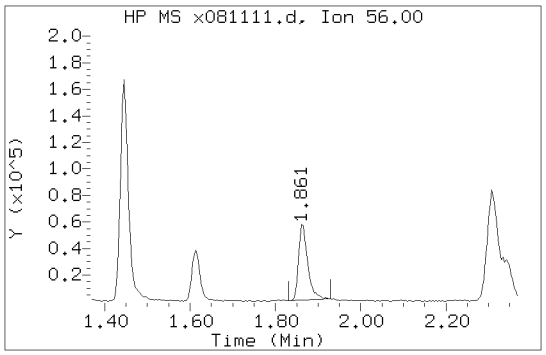
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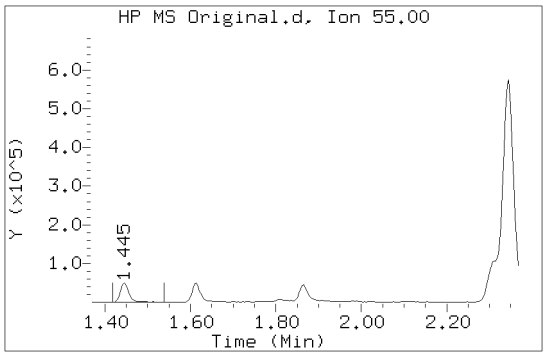
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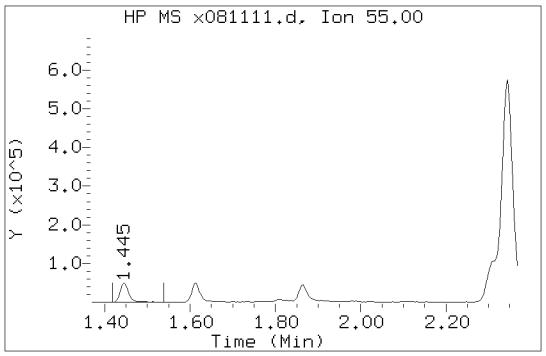
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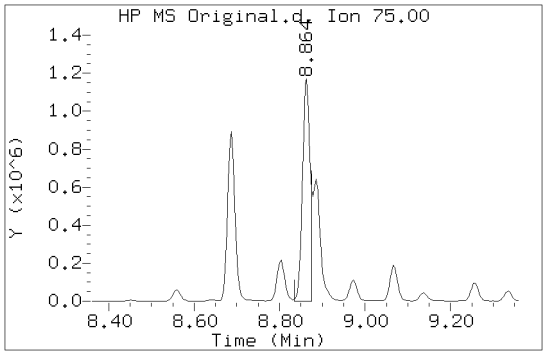
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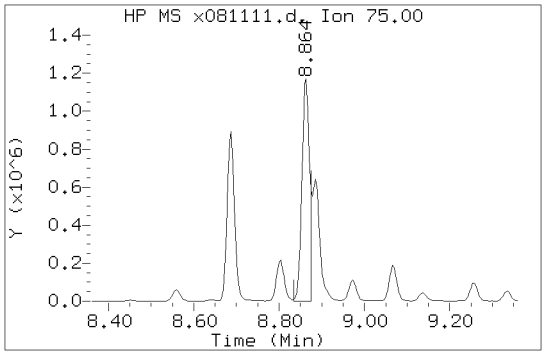
1,2,3-Trichloropropane (96-18-4)

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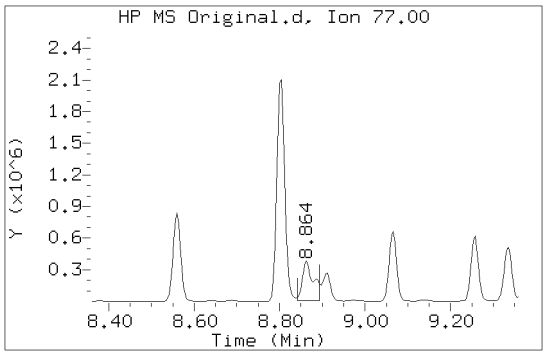
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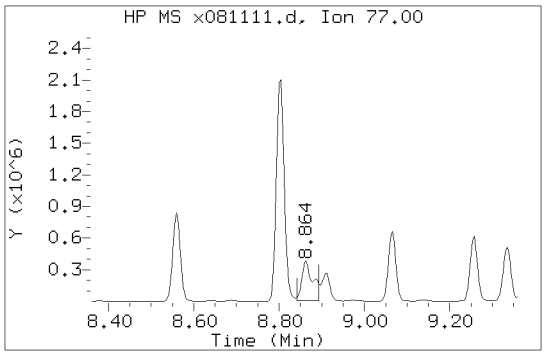
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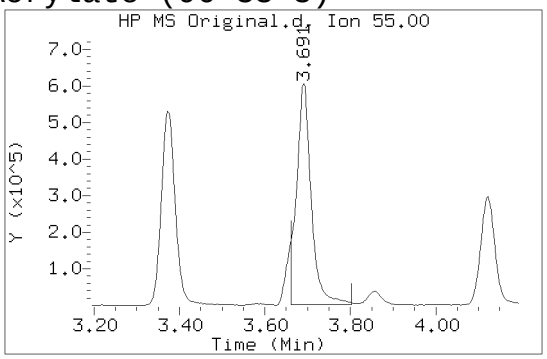


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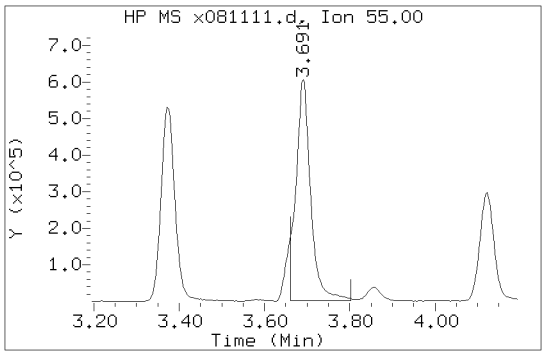
Methyl Acrylate (96-33-3)

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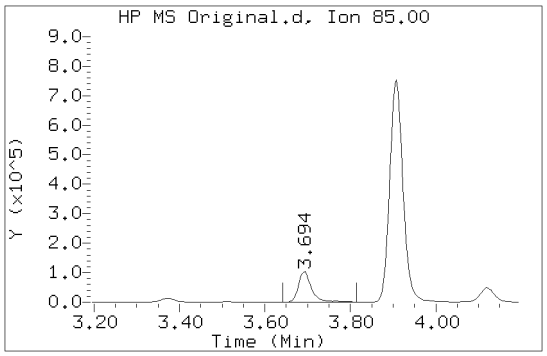
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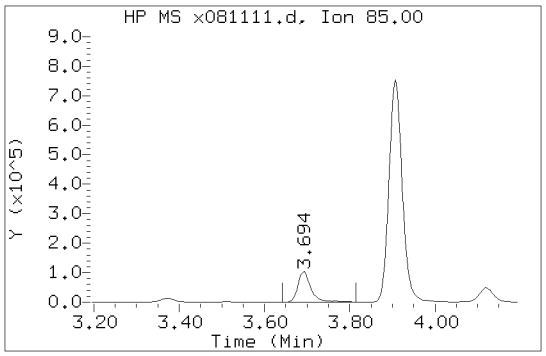
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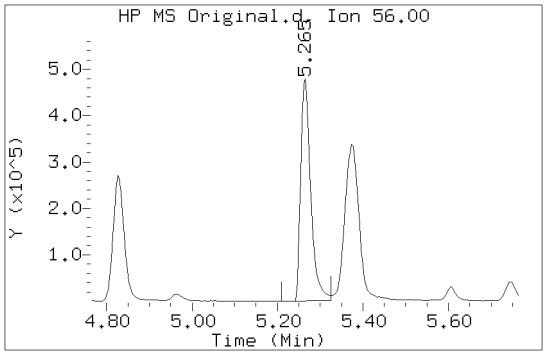
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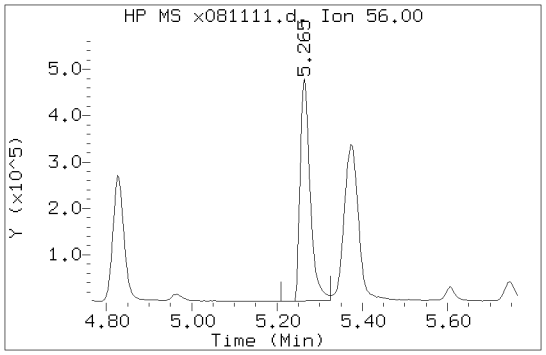
n-Butanol (71-36-3)

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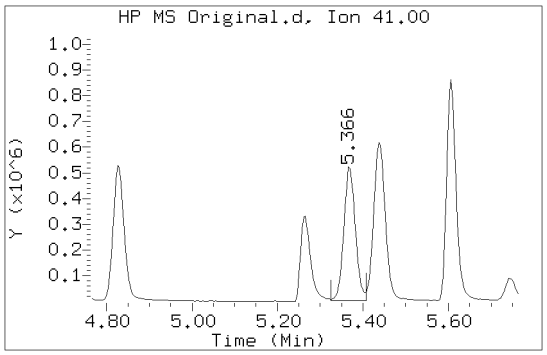
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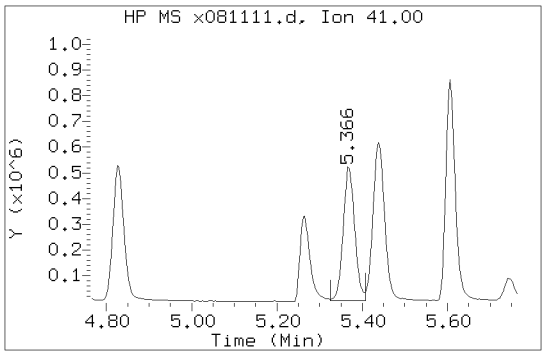
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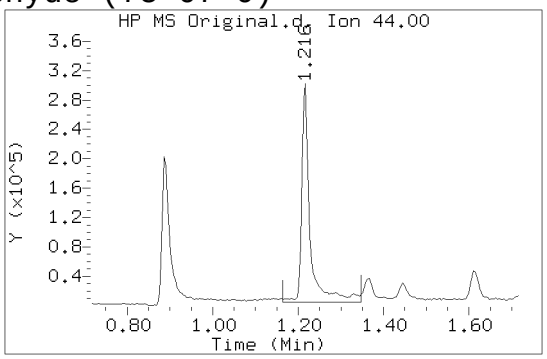
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Acetaldehyde (75-07-0)

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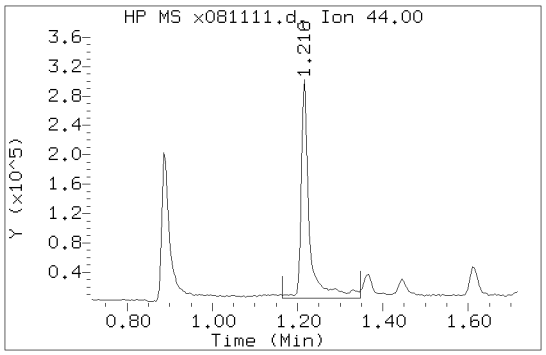
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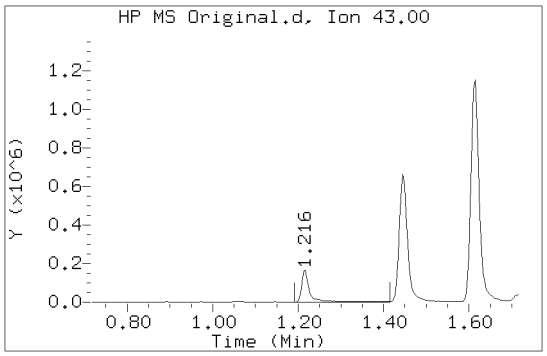
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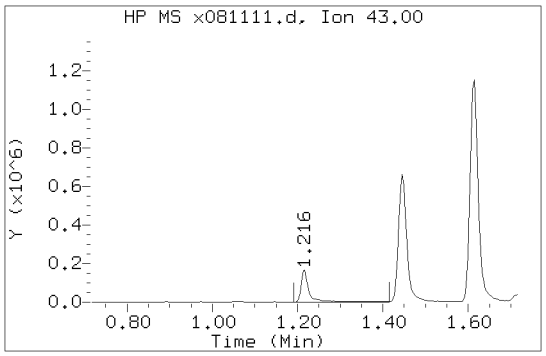
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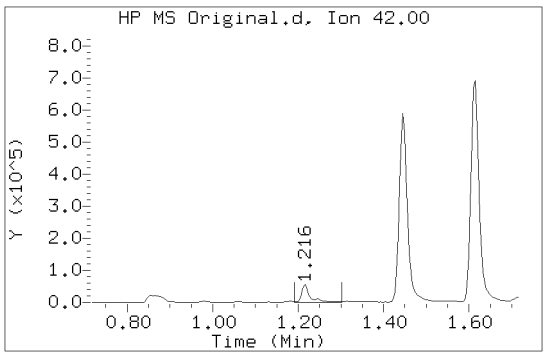
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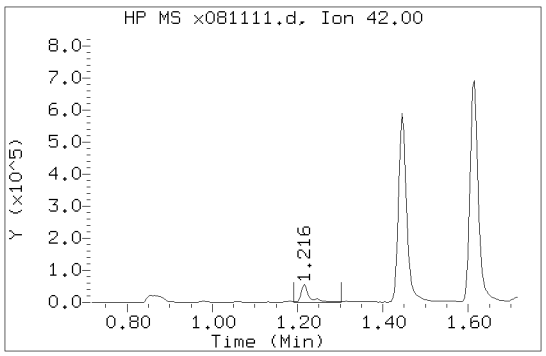
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AFTER

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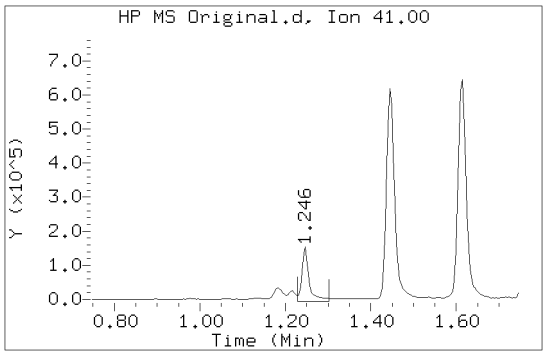


Isobutylene (115-11-7)

Reason Code:

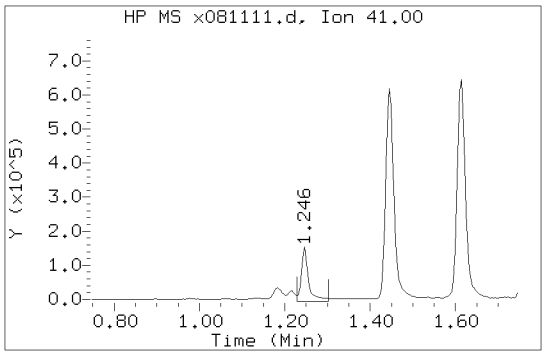
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AFTER

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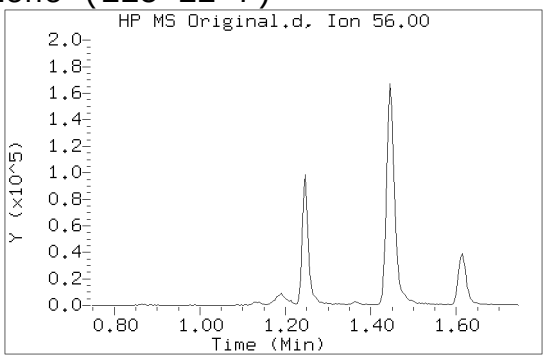


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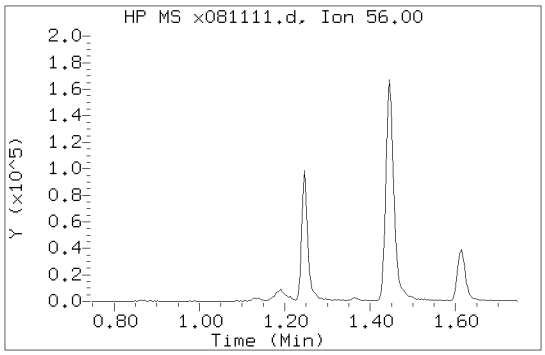
Isobutylene (115-11-7)

Reason Code:

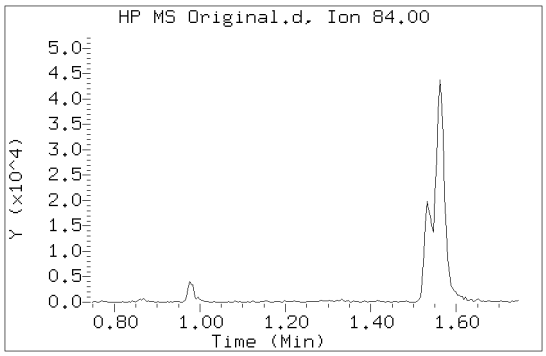
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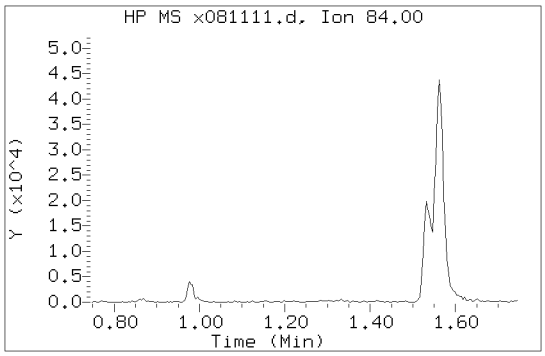
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BEFORE
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AFTER
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12-Aug-2023
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081113.D Page 1
Report Date: 23-Aug-2023 11:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230811.b\X081113.D
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Inj Date : 11-AUG-2023 15:38
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 23-Aug-2023 11:08 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 14:57 Cal File: X081111.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.181	(1.000)	670199	50.0000	
2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	278753	45.4301	45.43
3	Chloromethane	50	1.085	1.085	(0.260)	305198	46.7975	46.79
4	Propionitrile	54	3.660	3.664	(0.876)	460651	493.555	493.55
5	Vinyl Chloride	62	1.149	1.149	(0.275)	367708	45.7424	45.74
6	Bromomethane	94	1.344	1.336	(0.322)	212672	49.1484	49.14
7	Chloroethane	64	1.407	1.403	(0.337)	232390	44.1073	44.10
8	Trichlorofluoromethane	101	1.565	1.561	(0.375)	497926	43.5217	43.52
9	Acrolein	56	1.865	1.861	(0.446)	20861	94.8205	94.82
10	Acetone	43	1.977	1.977	(0.473)	288065	111.670	111.66
11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	290262	44.8534	44.85
12	Isobutyl Alcohol	43	4.680	4.680	(1.120)	996165	948.239	948.23
13	Acetonitrile	39	2.202	2.202	(0.527)	422605	408.877	408.87
14	Allyl Chloride	41	2.202	2.202	(0.527)	853074	41.7819	41.78
15	Iodomethane	142	2.033	2.029	(0.487)	637436	84.9734	84.97
16	Acrylonitrile	53	2.539	2.536	(0.608)	279919	89.7905	89.79
17	Methylene Chloride	84	2.307	2.307	(0.552)	359630	44.3140	44.31
18	Methyl tert-butyl ether	73	2.539	2.539	(0.608)	1009461	43.7308	43.73
19	Carbon Disulfide	76	2.075	2.074	(0.497)	1749941	91.1156	91.11
20	trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	333755	44.3805	44.38

21 Vinyl Acetate	43	3.000	3.000 (0.718)	2143043	96.3367	96.33
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	631943	44.6198	44.61

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.775	1.771	(0.425)	125449	44.2468	44.24(M)
	24 2-Butanone	43	3.585	3.585	(0.858)	263108	106.057	106.05(H)
	25 Methacrylonitrile	41	3.825	3.821	(0.916)	302256	45.2200	45.21(a)
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	453259	47.6714	47.67
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.845)	337589	46.7448	46.74
	28 Chloroform	83	3.908	3.904	(0.935)	572759	46.1412	46.14
	29 Bromochloromethane	128	3.799	3.795	(0.909)	191270	46.5882	46.58
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	317829	51.7361	51.73
	31 1,1,1-Trichloroethane	97	4.084	4.080	(0.978)	454034	45.5581	45.55
	32 1,1-Dichloropropene	75	4.283	4.279	(0.863)	378396	46.2898	46.28
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	470160	47.6071	47.60
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	385124	44.6289	44.62
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	349319	51.0514	51.05
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1038890	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	1209828	47.2791	47.27
	38 Trichloroethene	130	5.205	5.205	(1.048)	341170	46.3912	46.39
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	453741	47.6112	47.61
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	274347	44.4909	44.49
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	237859	97.5610	97.56
	42 1,2-Dichloropropane	63	5.433	5.437	(1.094)	338551	46.9214	46.92
	43 2-Nitropropane	43	5.969	5.966	(1.429)	101230	41.1235	41.12
	44 Dibromomethane	93	5.550	5.549	(1.118)	230609	46.7682	46.76
	45 4-Methyl-2-Pentanone	43	6.326	6.325	(0.825)	699243	98.2915	98.29
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	529681	48.5712	48.57
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	991755	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1139657	48.8285	48.82
	49 Ethyl Methacrylate	69	6.787	6.786	(1.367)	431949	45.3832	45.38
	50 Toluene	91	6.445	6.445	(0.841)	1287784	46.6006	46.60
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	449888	49.1542	49.15
	52 2-Hexanone	43	7.086	7.086	(0.924)	478972	100.302	100.30
	53 1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	269912	48.9988	48.99
	54 1,3-Dichloropropane	76	6.978	6.981	(0.910)	538369	47.8092	47.80
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	398140	50.0801	50.08
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	266778	46.4464	46.44
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	329212	48.9227	48.92
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	263671	43.8660	43.86
	59 Chlorobenzene	112	7.690	7.690	(1.003)	892241	46.8578	46.85
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	360717	49.0419	49.04
	61 Ethylbenzene	106	7.795	7.799	(1.017)	439106	46.6953	46.69
	62 m,p-Xylenes	106	7.900	7.904	(1.030)	1129037	93.8572	93.85
	63 o-Xylene	106	8.237	8.241	(1.074)	553055	46.6550	46.65
	64 Styrene	104	8.256	8.256	(1.077)	982231	49.8271	49.82
	66 Bromoform	173	8.406	8.406	(1.096)	280929	52.3726	52.37
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1332646	45.2392	45.23
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	451137	48.0360	48.03
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	495886	50.6494	50.64
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.662	(1.000)	576953	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.918)	349366	50.5840	50.58(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	115652	46.2513	46.25
	73 n-Propylbenzene	91	8.908	8.912	(0.922)	1599561	46.8897	46.88
	74 Bromobenzene	156	8.803	8.803	(0.912)	440731	47.7939	47.79
	75 1,3,5-Trimethylbenzene	105	9.062	9.066	(0.938)	1135547	45.5338	45.53

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	994141	45.5092	45.50
77	4-Chlorotoluene	91	9.066	9.066 (0.939)	1180248	46.9553	46.95

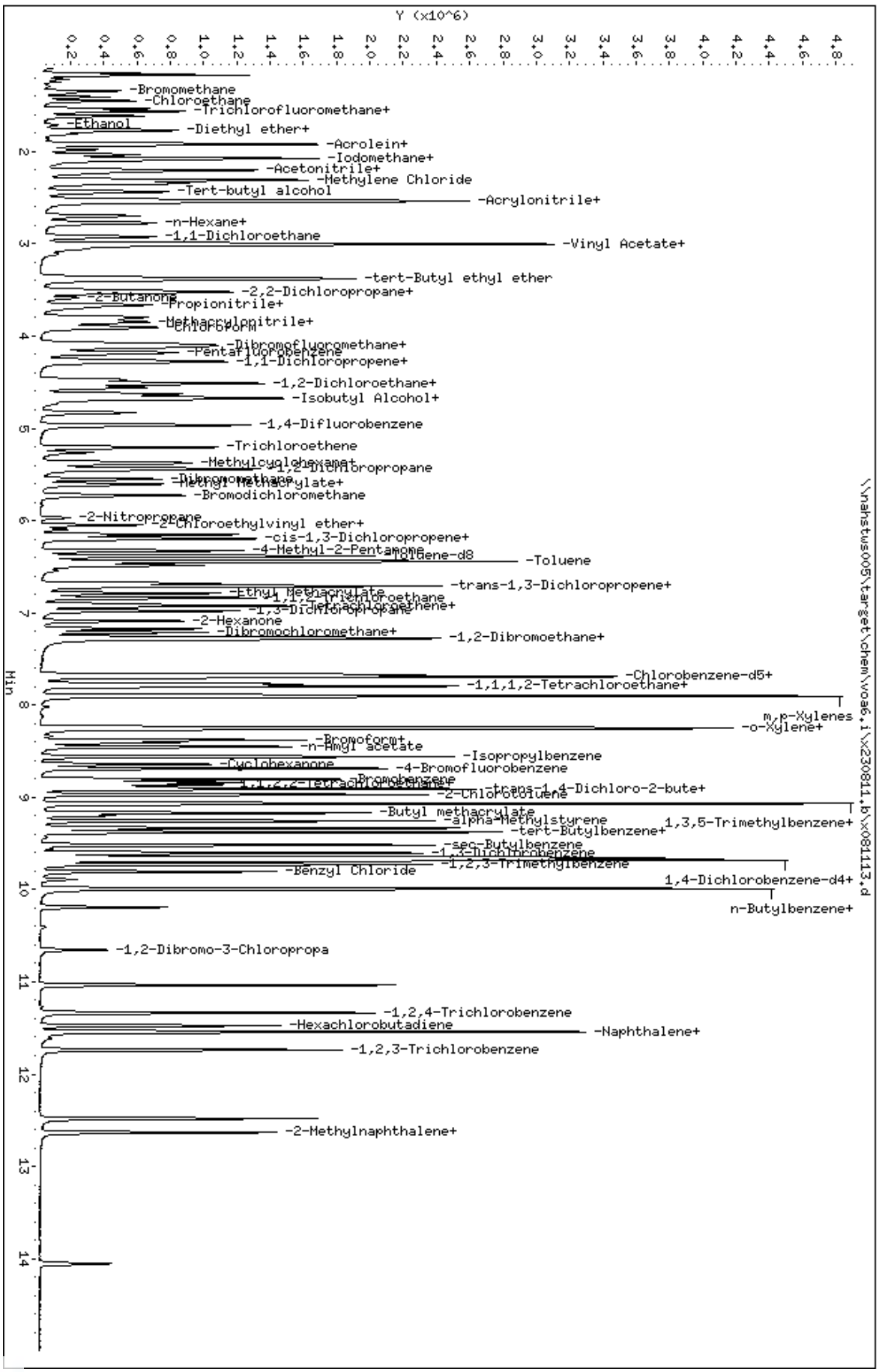
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.332	9.336	(0.966)	958710	44.8714	44.87
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1174441	45.7319	45.73
81	sec-Butylbenzene	105	9.516	9.519	(0.985)	1336529	45.6309	45.63
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	1195711	45.1498	45.14
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	777074	47.3148	47.31
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	817903	46.5010	46.50
86	Benzyl Chloride	91	9.804	9.804	(1.279)	798143	56.2246	56.22
87	n-Butylbenzene	91	9.992	9.992	(1.035)	1066931	41.7285	41.72
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	774373	46.7102	46.71
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.651	(1.103)	78707	49.5541	49.55
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	519071	47.3153	47.31
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	230823	55.7491	55.74
92	Naphthalene	128	11.540	11.540	(1.195)	1286817	46.9944	46.99
93	1,2,3-Trichlorobenzene	180	11.739	11.738	(1.215)	494650	46.2694	46.26
146	Methyl acetate	43	2.236	2.232	(0.535)	286746	47.6134	47.61
138	Freon TF	101	1.921	1.917	(0.460)	272533	43.3566	43.35
141	Cyclohexane	56	4.121	4.121	(0.987)	376528	42.2842	42.28
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	114638	87.6858	87.68
147	Methylcyclohexane	55	5.385	5.381	(1.085)	673650	43.1633	43.16
135	1,4-Dioxane	88	5.602	5.602	(1.341)	82861	972.689	972.68
132	n-Butanol	56	5.373	5.265	(1.286)	145482	832.733	832.73
131	Methyl Acrylate	55	3.694	3.690	(0.884)	349204	52.7407	52.74
133	Ethyl Acrylate	55	5.385	5.381	(1.289)	673650	42.4935	42.49
136	n-Hexane	57	2.772	2.772	(0.664)	305876	48.8226	48.82
139	Diethyl ether	59	1.763	1.760	(0.422)	263563	44.5563	44.55
148	Tert-butyl alcohol	59	2.438	2.442	(0.584)	814992	1008.88	1008.88
149	Isopropyl alcohol	45	2.101	2.104	(0.503)	473296	1006.13	1006.12
156	Diisopropyl ether	45	3.004	3.008	(0.719)	1051991	43.5828	43.58
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1086956	40.5887	40.58
167	Ethanol	45	1.711	1.715	(0.410)	82213	1037.28	1037.28
172	tert-Butyl formate	59	4.627	4.635	(1.108)	528507	78.9214	78.92
173	3,3-Dimethyl-1-butanol	57	7.285	7.293	(0.950)	703312	750.582	750.58
174	tert-Amyl methyl ether	73	4.669	4.668	(1.118)	983975	38.6870	38.68
175	tert-Butyl ethyl ether	59	3.383	3.383	(0.810)	957683	44.1341	44.13
176	tert-Amyl alcohol	59	4.627	4.635	(1.108)	528507	790.969	790.96
151	4-Methyl-2-pentanol	45	6.712	6.719	(1.352)	1343809	651.653	651.65
180	1-Methylnaphthalene	142	12.634	12.631	(1.308)	589150		(a)
140	1,3-Butadiene	54	1.171	1.167	(0.280)	304586	44.1130	44.11
152	Amyl alcohol	42	6.903	6.903	(0.900)	187680	2286.12	2286.12
158	Dichlorofluoromethane	67	1.535	1.535	(0.367)	459638	39.7660	39.76
159	Propylene oxide	43	1.808	1.808	(0.433)	77472	71.6236	71.62
161	3-Methyl-1-butanol	55	6.903	6.903	(0.900)	170158	992.179	992.17
162	Butyl acrylate	55	8.249	8.248	(1.076)	726261	44.9587	44.95
163	Butyl methacrylate	41	9.167	9.171	(0.949)	516809	44.1935	44.19(M)
164	Dicyclopentadiene	66	9.681	9.684	(1.002)	1267154	41.3574	41.35
182	Epichlorohydrin	57	6.097	6.093	(1.228)	115083	181.130	181.12
M 94	1,2-Dichloroethylene (total)	96				671344	91.1253	91.12
M 95	Xylenes (total)	106				1682092	140.512	140.51
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	588589	47.9630	47.96
130	Ethyl Acetate	43	3.664	3.664	(0.877)	367968	47.8328	47.83
134	Cyclohexanone	55	8.642	8.642	(0.895)	342442	932.049	932.04
185	Isoprene	39	1.775	1.775	(0.425)	111412	39.9339	39.93

188 Isopropyl acetate	43	4.680	4.680 (0.943)	997331	47.5282	47.52
187 n-Amyl acetate	43	8.451	8.451 (1.102)	712266	48.6395	48.63

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
189 n-Butyl acetate	43	7.210	7.210	(0.940)	571607	50.2486	50.24
150 Allyl alcohol	57	2.772	2.772	(0.664)	305876	975.699	975.69
194 Acetaldehyde	44	1.216	1.216	(0.291)	117693	173.012	173.01
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	771701	44.7054	44.70
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	615675	47.1510	47.15
202 Isobutylene	41	1.246	1.246	(0.298)	37401	42.5312	42.53(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.543	(1.196)	536179	45.4920	45.49

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\nahstws005\target\chem\voa6.i\x230811.b\x081113.d
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Client ID: CCV
Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

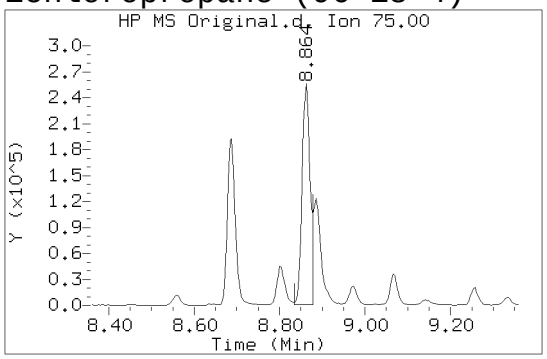
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Inj Date : 11-AUG-2023 15:38
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

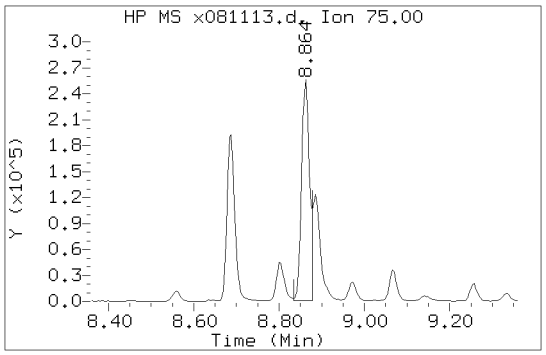
BEFORE

MASS
75
AREA
349366
HEIGHT
255945
12-Aug-2023
23:25



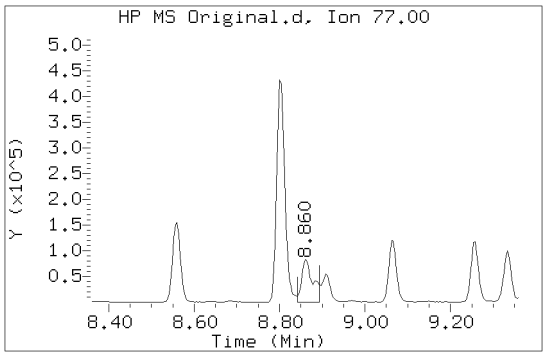
AFTER

MASS
75
AREA
349366
HEIGHT
255945
12-Aug-2023
23:25



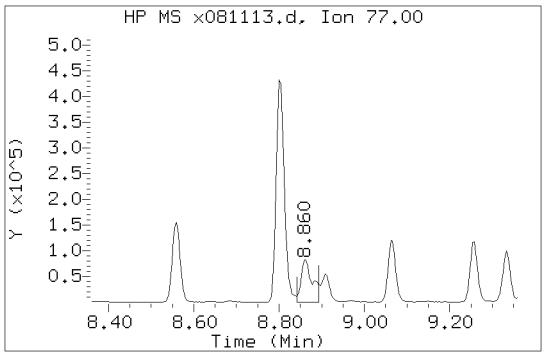
BEFORE

MASS
77
AREA
153687
HEIGHT
81760
12-Aug-2023
23:25



AFTER

MASS
77
AREA
153687
HEIGHT
81760
12-Aug-2023
23:25

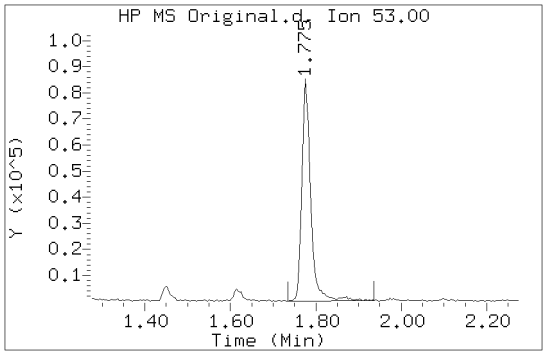


Chloroprene (126-99-8)

Reason Code:

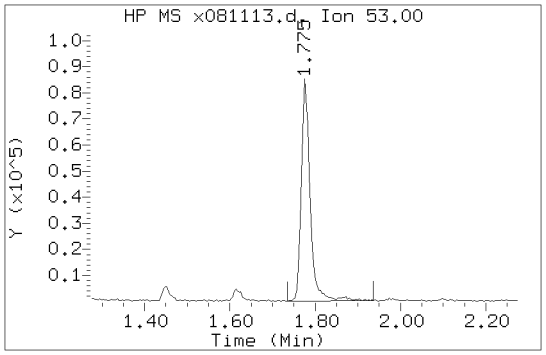
BEFORE

MASS
53
AREA
125449
HEIGHT
85075
12-Aug-2023
23:25



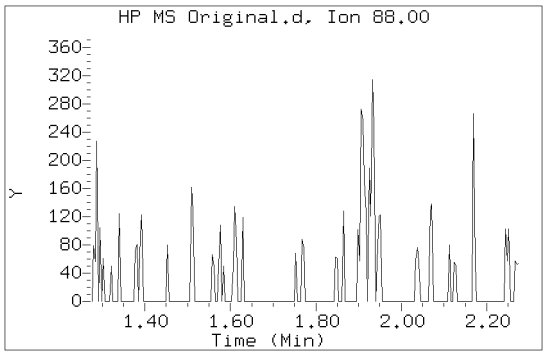
AFTER

MASS
53
AREA
125449
HEIGHT
85075
12-Aug-2023
23:25



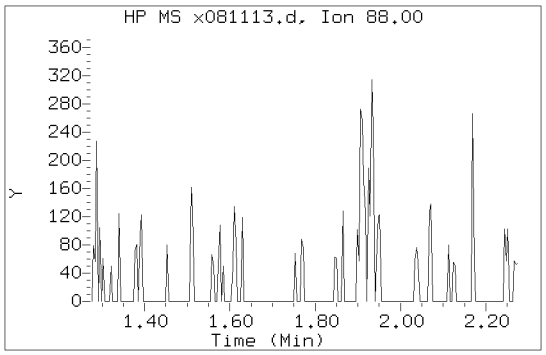
BEFORE

MASS
88
AREA
0
HEIGHT
0
12-Aug-2023
23:25



AFTER

MASS
88
AREA
0
HEIGHT
0
12-Aug-2023
23:25

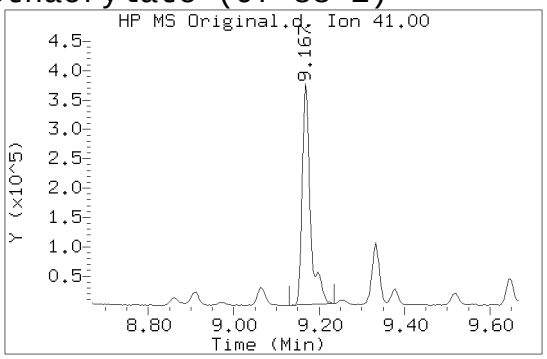


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081113.d
Inj Date : 11-AUG-2023 15:38
InstruID : voa6.i
LabSampID : CCV

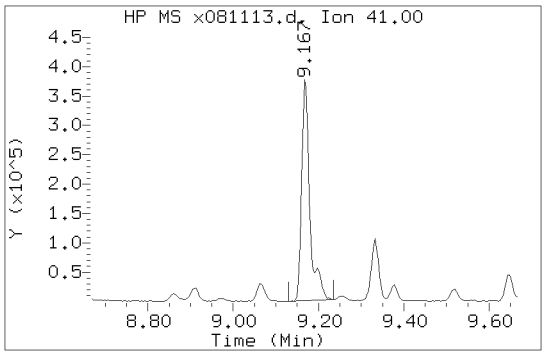
Butyl methacrylate (97-88-1)

Reason Code:

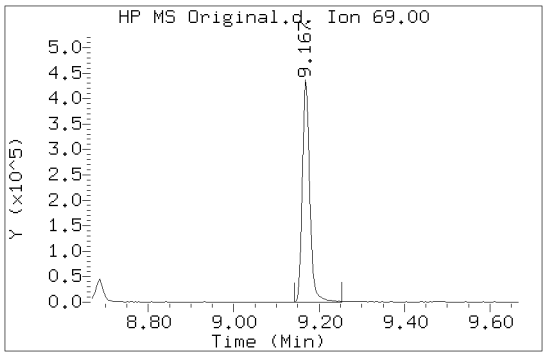
BEFORE
MASS
41
AREA
516809
HEIGHT
376082
12-Aug-2023
23:25



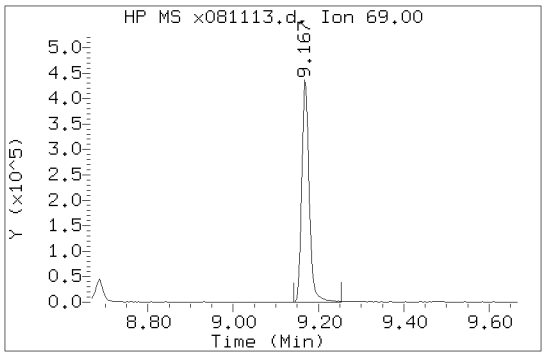
AFTER
MASS
41
AREA
516809
HEIGHT
376082
12-Aug-2023
23:25



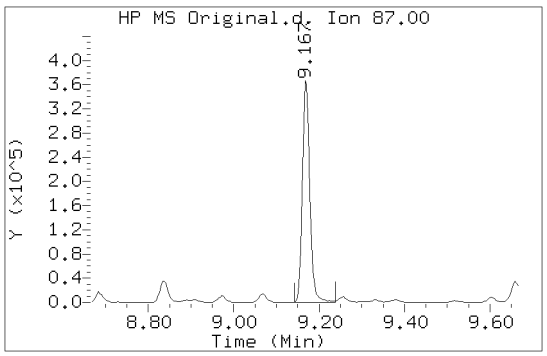
BEFORE
MASS
69
AREA
545059
HEIGHT
435964
12-Aug-2023
23:25



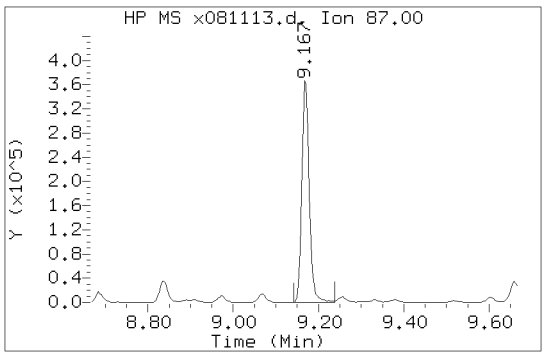
AFTER
MASS
69
AREA
545059
HEIGHT
435964
12-Aug-2023
23:25



BEFORE
MASS
87
AREA
456559
HEIGHT
366319
12-Aug-2023
23:25



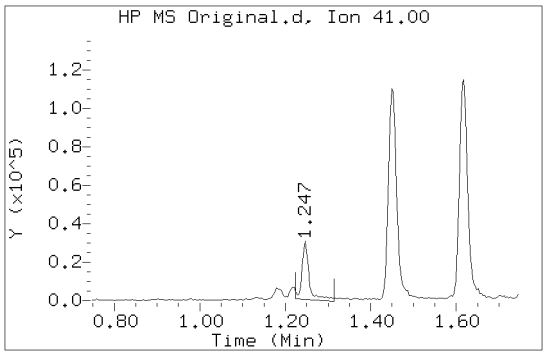
AFTER
MASS
87
AREA
456559
HEIGHT
366319
12-Aug-2023
23:25



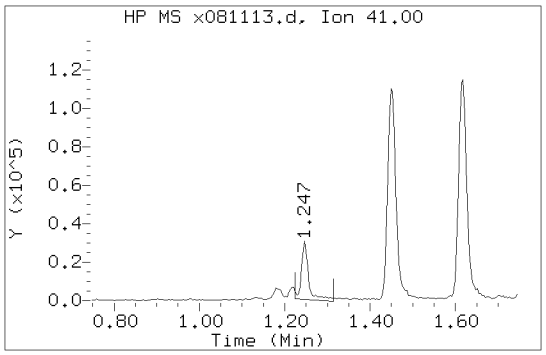
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
37401
HEIGHT
30161
12-Aug-2023
23:25



AFTER
MASS
41
AREA
37401
HEIGHT
30161
12-Aug-2023
23:25

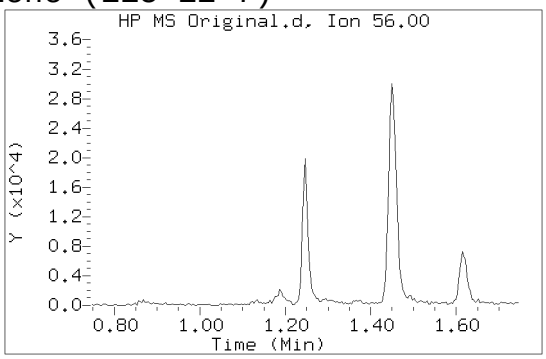


Data File : \\nahstws005\target\chem\voa6.i\x230811.b\x081113.d
Inj Date : 11-AUG-2023 15:38
InstruID : voa6.i
LabSampID : CCV

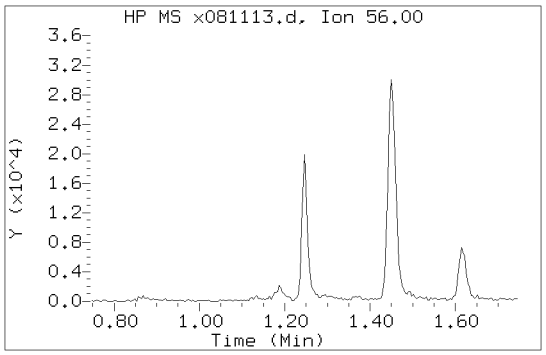
Isobutylene (115-11-7)

Reason Code:

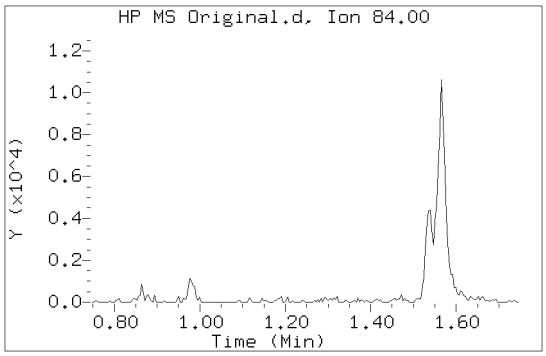
BEFORE
MASS
56
AREA
0
HEIGHT
0
12-Aug-2023
23:25



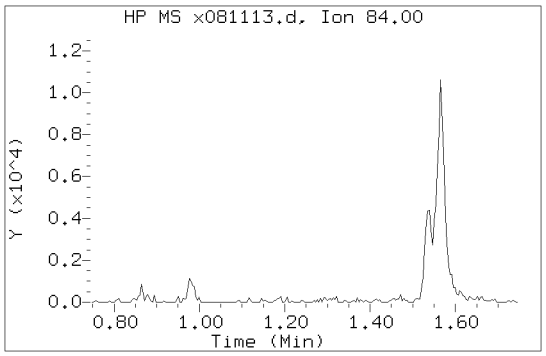
AFTER
MASS
56
AREA
0
HEIGHT
0
12-Aug-2023
23:25



BEFORE
MASS
84
AREA
0
HEIGHT
0
12-Aug-2023
23:25



AFTER
MASS
84
AREA
0
HEIGHT
0
12-Aug-2023
23:25



01251419

right solutions.
right partner.

Raw Data VOA6 444516

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/24/2023

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\voa6.i\X230821.b\X082101.D Page 1
Report Date: 22-Aug-2023 09:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082101.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 21-AUG-2023 08:11
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\bfb.m
Meth Date : 06-Feb-2018 12:19 pcabasca Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	81648			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	18512			15.00- 40.00	22.67
8.687	8.889	(0.000)	75	42144			30.00- 60.00	51.62
8.687	8.889	(0.000)	96	6082			5.00- 9.00	7.45
8.687	8.889	(0.000)	173	387			0.00- 2.00	0.53
8.687	8.889	(0.000)	174	73392			50.00- 0.00	89.89
8.687	8.889	(0.000)	175	5431			5.00- 9.00	7.40
8.687	8.889	(0.000)	176	71752			95.00- 101.00	97.77
8.687	8.889	(0.000)	177	4194			5.00- 9.00	5.85

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.67
75	30.00 - 60.00% of mass 95	51.62
96	5.00 - 9.00% of mass 95	7.45
173	Less than 2.00% of mass 174	0.47 (0.53)
174	Greater than 50.00% of mass 95	89.89
175	5.00 - 9.00% of mass 174	6.65 (7.40)
176	95.00 - 101.00% of mass 174	87.88 (97.77)
177	5.00 - 9.00% of mass 176	5.14 (5.85)

Data File: X082101.D
Spectrum: Scan 2159 (8.68)
Location of Maximum: 95.00
Number of points: 123

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	943	68.00	8404	102.90	210	140.80	1219
37.10	5352	69.00	9260	103.90	264	142.80	454
38.00	4670	70.20	796	104.80	769	144.00	127
39.10	3061	70.90	497	105.90	407	144.80	76
40.00	2530	72.00	566	106.90	506	146.00	70
41.00	1991	73.00	3463	107.80	179	146.80	122
42.10	1150	74.00	14320	109.00	384	147.70	307
43.00	1099	75.00	42144	109.90	122	148.80	81
44.00	2686	76.10	4436	111.00	105	151.80	73
44.90	1094	77.00	1633	112.00	70	153.00	119
47.00	1454	77.90	931	112.60	105	154.70	358
48.00	690	78.90	4365	115.00	303	157.00	350
49.00	4369	79.90	927	115.70	414	158.50	145
50.00	18512	80.90	3893	116.90	624	161.00	61
51.00	3995	81.70	811	117.70	562	167.70	74
52.10	425	83.00	369	118.80	524	170.00	122
53.10	236	83.90	332	120.00	84	170.60	66
54.00	301	85.00	347	120.90	78	171.30	120
55.10	2599	85.80	299	122.80	398	173.00	387
56.00	1793	86.90	3100	123.60	72	173.90	73392
57.10	3504	87.90	3734	124.90	53	174.90	5431
58.00	630	88.90	264	126.60	236	175.90	71752
58.80	110	90.80	493	127.90	270	176.90	4194
59.90	879	92.00	2704	128.70	233	177.90	160
61.00	3949	92.90	3695	129.00	213	184.00	125
62.00	3928	94.00	11020	130.00	438	184.90	72
63.00	4011	95.00	81648	131.00	356	186.10	272
64.00	350	96.00	6082	132.00	243	233.80	72
65.10	344	97.10	431	134.70	271	236.00	83
66.00	259	98.00	923	136.30	146	262.00	132
66.80	621	99.10	74	136.70	194		

Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082101.d Page 1

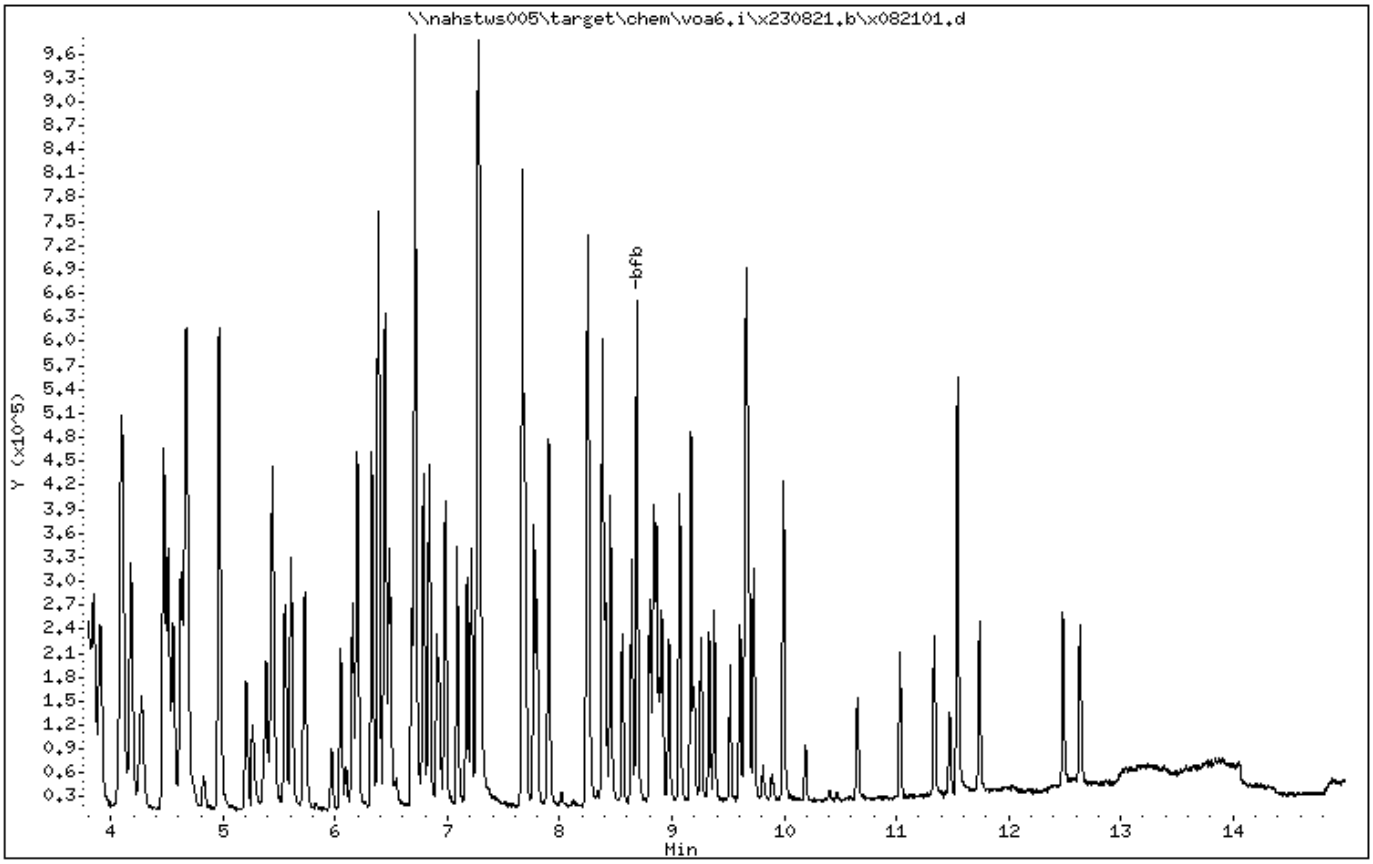
Date : 21-AUG-2023 08:11

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa6.i\x230821.b\x082101.d
Inj Date : 21-AUG-2023 08:11
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082103.D Page 1
Report Date: 21-Aug-2023 10:55

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082103.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 21-AUG-2023 08:52
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 10:53 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	699453	50.0000	
135	1,4-Dioxane	88	5.602	5.602	(1.340)	78036	1000.00	877.73
140	1,3-Butadiene	54	1.171	1.171	(0.280)	335319	50.0000	46.53
25	Methacrylonitrile	41	3.825	3.825	(0.915)	308678	50.0000	44.24
12	Isobutyl Alcohol	43	4.680	4.680	(1.119)	1001717	1000.00	913.64
13	Acetonitrile	39	2.202	2.202	(0.527)	463178	500.000	429.38
14	Allyl Chloride	41	2.202	2.202	(0.527)	881043	50.0000	41.34
4	Propionitrile	54	3.656	3.656	(0.875)	436276	500.000	447.88
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	125352	50.0000	48.54
194	Acetaldehyde	44	1.216	1.216	(0.291)	93914	200.000	130.24
130	Ethyl Acetate	43	3.664	3.664	(0.876)	349881	50.0000	43.57
40	Methyl Methacrylate	41	5.609	5.609	(1.342)	294957	50.0000	45.83
49	Ethyl Methacrylate	69	6.787	6.787	(1.367)	467410	50.0000	48.00
131	Methyl Acrylate	55	3.694	3.694	(0.883)	304123	50.0000	44.01
132	n-Butanol	56	5.261	5.261	(1.258)	152141	1000.00	834.28
136	n-Hexane	57	2.772	2.772	(0.663)	422753	50.0000	61.68
139	Diethyl ether	59	1.760	1.760	(0.421)	257950	50.0000	41.78
142	Tetrahydrofuran	42	3.851	3.851	(0.921)	112099	100.000	82.15
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	671110	50.0000	52.58
156	Diisopropyl ether	45	3.004	3.004	(0.719)	1127290	50.0000	44.74

162	Butyl acrylate	55	8.249	8.249 (1.076)	790191	50.0000	47.36
167	Ethanol	45	1.711	1.711 (0.409)	71881	1000.00	864.89

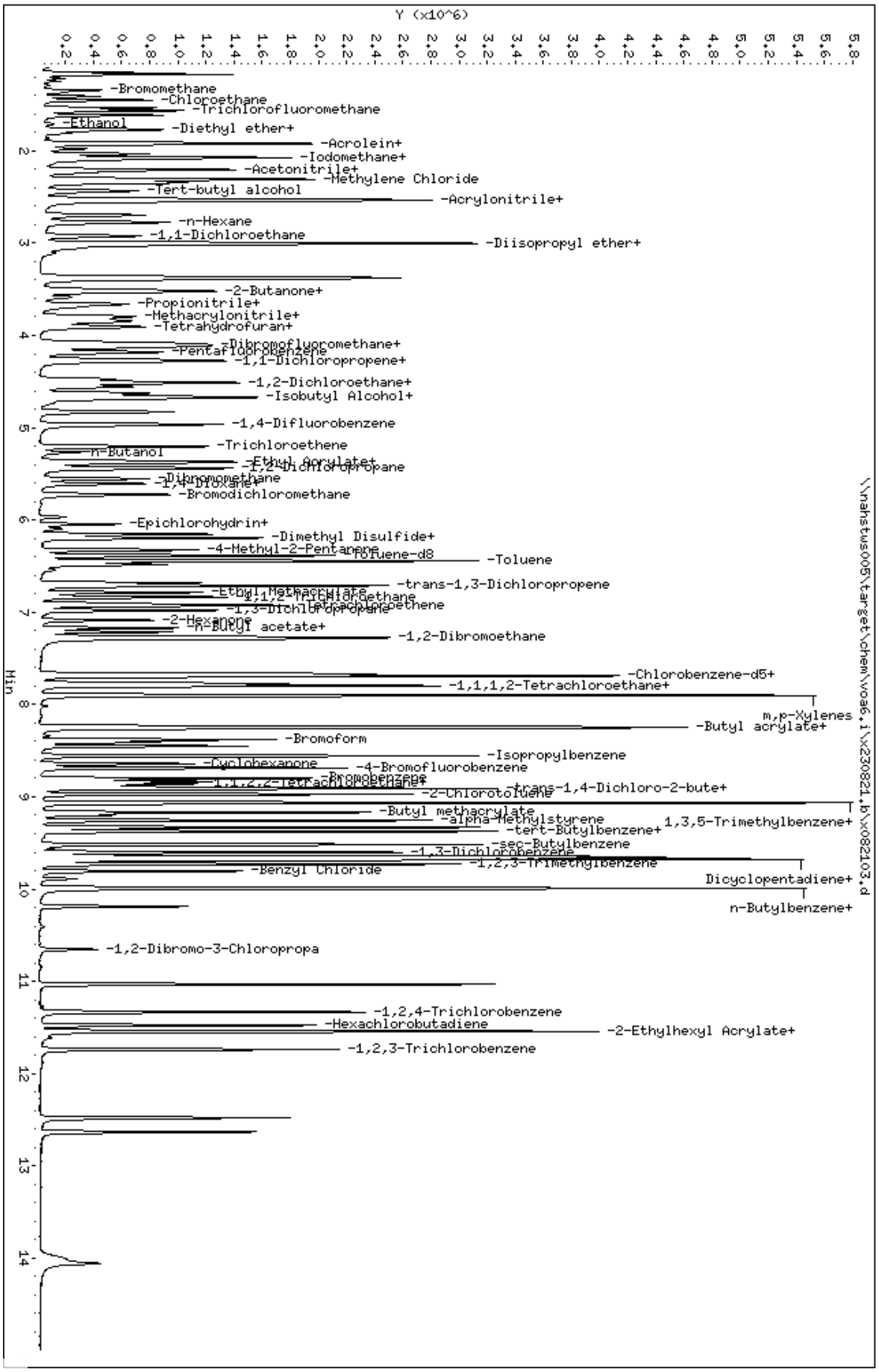
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
200	Dimethyl Disulfide	94	6.194	6.194	(0.808)	741283	50.0000	54.97
182	Epichlorohydrin	57	6.093	6.093	(1.227)	111224	200.000	171.11
164	Dicyclopentadiene	66	9.680	9.680	(1.002)	1710081	50.0000	53.43
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1394014	50.0000	50.05
205	2-Ethylhexyl Acrylate	55	11.544	11.544	(1.195)	712962	50.0000	58.16
86	Benzyl Chloride	91	9.804	9.804	(1.279)	823367	50.0000	56.16
134	Cyclohexanone	55	8.642	8.642	(0.895)	359565	1000.00	941.09
133	Ethyl Acrylate	55	5.381	5.381	(1.287)	839897	50.0000	50.76
163	Butyl methacrylate	41	9.167	9.167	(0.949)	553061	50.0000	45.47
188	Isopropyl acetate	43	4.680	4.680	(0.943)	1005485	50.0000	46.83
189	n-Butyl acetate	43	7.210	7.210	(0.940)	551642	50.0000	46.95
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	303632	50.0000	47.38
3	Chloromethane	50	1.085	1.085	(0.260)	313605	50.0000	46.07
5	Vinyl Chloride	62	1.149	1.149	(0.275)	393596	50.0000	46.91
6	Bromomethane	94	1.344	1.344	(0.321)	194892	50.0000	43.15
7	Chloroethane	64	1.407	1.407	(0.337)	248401	50.0000	45.17
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	584861	50.0000	48.98
9	Acrolein	56	1.865	1.865	(0.446)	19517	100.000	84.71
10	Acetone	43	1.977	1.977	(0.473)	263258	100.000	97.21
11	1,1-Dichloroethene	96	1.921	1.921	(0.459)	312500	50.0000	46.27
15	Iodomethane	142	2.033	2.033	(0.486)	752721	100.000	95.11
16	Acrylonitrile	53	2.536	2.536	(0.606)	268666	100.000	82.57
17	Methylene Chloride	84	2.307	2.307	(0.552)	363310	50.0000	42.89
18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	1033182	50.0000	42.88
19	Carbon Disulfide	76	2.075	2.075	(0.496)	1863539	100.000	92.97
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	348563	50.0000	44.41
21	Vinyl Acetate	43	3.000	3.000	(0.718)	2074484	100.000	89.35
22	1,1-Dichloroethane	63	2.925	2.925	(0.700)	640341	50.0000	43.32
24	2-Butanone	43	3.585	3.585	(0.857)	249455	100.000	96.34
26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	509015	50.0000	51.29
27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	369607	50.0000	49.03
28	Chloroform	83	3.908	3.908	(0.935)	615471	50.0000	47.50
29	Bromochloromethane	128	3.795	3.795	(0.908)	203483	50.0000	47.49
$ 30	Dibromofluoromethane	113	4.099	4.099	(0.980)	334309	50.0000	52.14
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	529909	50.0000	50.94
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	446836	50.0000	53.43
33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	485121	50.0000	48.01
34	Carbon Tetrachloride	117	4.264	4.264	(0.859)	472428	50.0000	53.51
$ 35	1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	360131	50.0000	50.41
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1062833	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	1283633	50.0000	49.03
38	Trichloroethene	130	5.205	5.205	(1.048)	386453	50.0000	51.36
39	Bromodichloromethane	83	5.726	5.726	(1.153)	481969	50.0000	49.43
41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	224591	100.000	90.04
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	363656	50.0000	49.26
44	Dibromomethane	93	5.553	5.553	(1.119)	238601	50.0000	47.29
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	654817	100.000	89.12
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	565313	50.0000	50.67
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	1024221	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	1171951	50.0000	48.62
50	Toluene	91	6.442	6.442	(0.840)	1403848	50.0000	49.19
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	477060	50.0000	50.94

52	2-Hexanone	43	7.086	7.086 (0.924)	445118	100.000	90.25
53	1,1,2-Trichloroethane	83	6.839	6.839 (0.892)	282595	50.0000	49.67

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	567062	50.0000	48.76
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	425126	50.0000	51.77
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	326882	50.0000	55.10
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	342300	50.0000	49.25
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	338809	50.0000	55.09
	59 Chlorobenzene	112	7.690	7.690	(1.003)	970039	50.0000	49.32
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	392309	50.0000	51.64
	61 Ethylbenzene	106	7.795	7.795	(1.017)	500875	50.0000	51.57
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	1302210	100.000	104.82
	63 o-Xylene	106	8.237	8.237	(1.074)	623775	50.0000	50.95
	64 Styrene	104	8.256	8.256	(1.077)	1080492	50.0000	53.07
	66 Bromoform	173	8.406	8.406	(1.096)	295245	50.0000	53.29
	67 Isopropylbenzene	105	8.556	8.556	(1.116)	1627162	50.0000	53.48
	68 1,1,2,2-Tetrachloroethane	83	8.833	8.833	(0.915)	452898	50.0000	46.37
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	521374	50.0000	51.55
*	70 1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	599978	50.0000	
	71 1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	357098	50.0000	49.71(M)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	1959213	50.0000	55.22
	74 Bromobenzene	156	8.803	8.803	(0.912)	479589	50.0000	50.01
	75 1,3,5-Trimethylbenzene	105	9.062	9.062	(0.938)	1382063	50.0000	53.29
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	1149498	50.0000	50.60
	77 4-Chlorotoluene	91	9.066	9.066	(0.939)	1360495	50.0000	52.04
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	1213661	50.0000	54.62
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1398264	50.0000	52.35
	81 sec-Butylbenzene	105	9.516	9.516	(0.985)	1733358	50.0000	56.90
	82 p-Isopropyltoluene	119	9.647	9.647	(0.999)	1538552	50.0000	55.86
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	880725	50.0000	51.56
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	915874	50.0000	50.07
	87 n-Butylbenzene	91	9.988	9.988	(1.034)	1388969	50.0000	51.73
	88 1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	870800	50.0000	50.51
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	79536	50.0000	48.15
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	622337	50.0000	54.55
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	314196	50.0000	68.99
	92 Naphthalene	128	11.540	11.540	(1.195)	1367445	50.0000	48.02
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	565935	50.0000	50.90
M	94 1,2-Dichloroethylene (total)	96				718170	100.000	93.44
M	95 Xylenes (total)	106				1925985	150.000	155.77
	141 Cyclohexane	56	4.118	4.118	(0.985)	495303	50.0000	52.81
	138 Freon TF	101	1.921	1.921	(0.459)	335773	50.0000	50.97
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	839897	50.0000	52.60
	146 Methyl Acetate	43	2.232	2.232	(0.534)	265332	50.0000	42.21
	148 Tert-Butyl alcohol	59	2.434	2.434	(0.582)	723860	1000.00	856.66
	149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	422387	1000.00	858.48

QC Flag Legend

M - Compound response manually integrated.



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Instrument: voa6.i
Operator: PC
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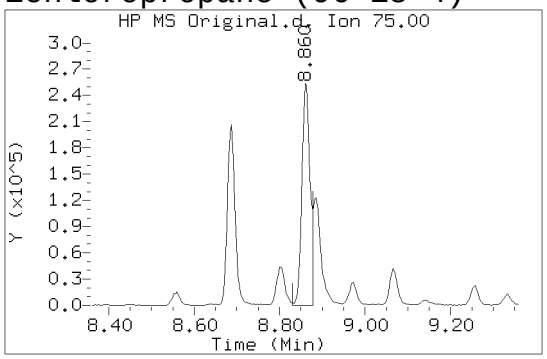
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1,2,3-Trichloropropane (96-18-4)

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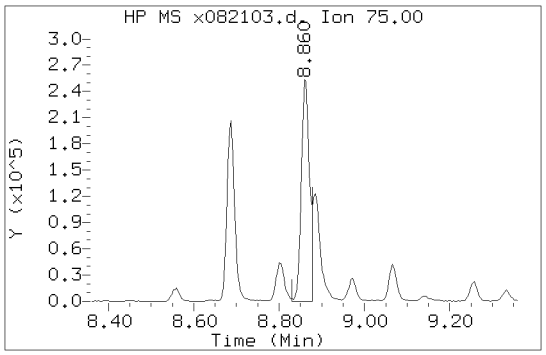
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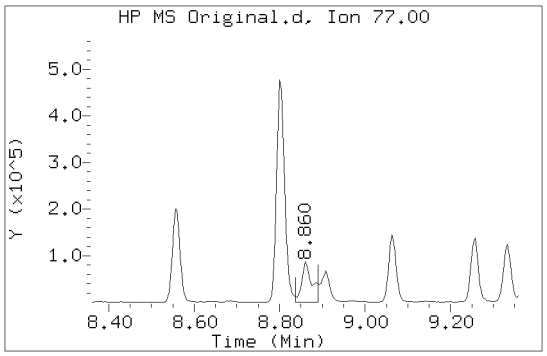
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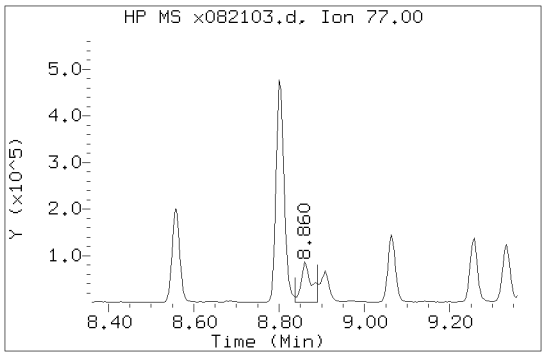
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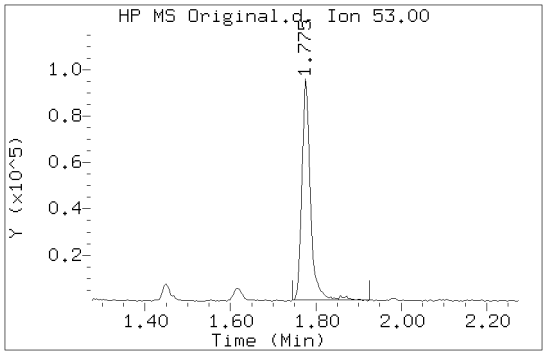


Chloroprene (126-99-8)

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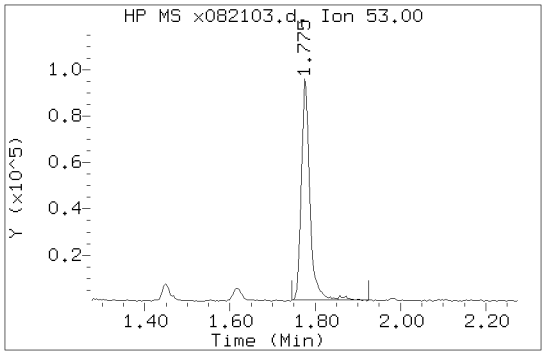
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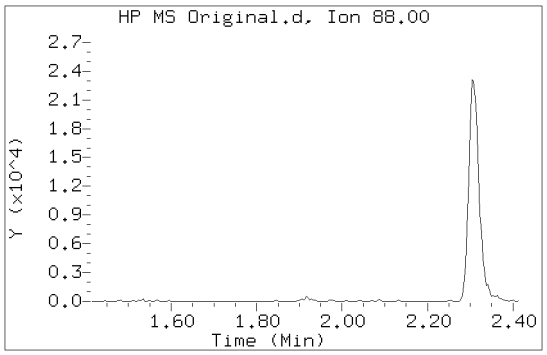
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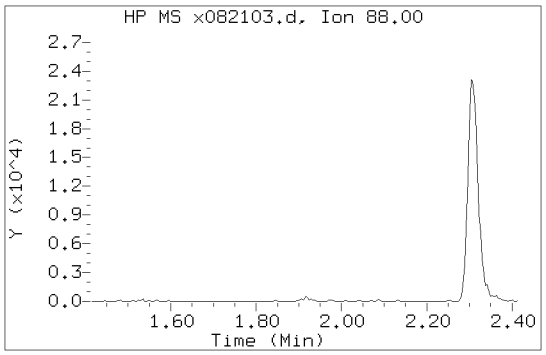
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082105.D Page 1
Report Date: 22-Aug-2023 09:23

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082105.D
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Misc Info : V6;WATER;0;1;
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Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	702162	50.0000	
135 1,4-Dioxane	88	5.602	5.602	(1.340)	29328	328.604	328.60(a)
140 1,3-Butadiene	54	1.171	1.171	(0.280)	144627	19.9927	19.99
25 Methacrylonitrile	41	3.833	3.825	(0.917)	122075	17.4320	17.43
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	416277	378.212	378.21
13 Acetonitrile	39	2.202	2.202	(0.527)	202181	186.709	186.70
14 Allyl Chloride	41	2.202	2.202	(0.527)	371083	17.3476	17.34
4 Propionitrile	54	3.660	3.656	(0.875)	175643	179.623	179.62(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	47678	18.4808	18.48
194 Acetaldehyde	44	1.216	1.216	(0.291)	34443	42.1039	42.10(M)
23 Chloroprene	53	1.775	1.775	(0.424)	59284	19.9581	19.95(M)
130 Ethyl Acetate	43	3.664	3.664	(0.876)	146801	18.2142	18.21
40 Methyl Methacrylate	41	5.609	5.609	(1.342)	113833	17.6200	17.61
49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	189319	19.2154	19.21
131 Methyl Acrylate	55	3.701	3.694	(0.885)	119469	17.2222	17.22
132 n-Butanol	56	5.265	5.261	(1.259)	54455	341.157	341.15(a)
136 n-Hexane	57	2.772	2.772	(0.663)	179242	28.7342	28.73
139 Diethyl ether	59	1.760	1.760	(0.421)	110110	17.7671	17.76
142 Tetrahydrofuran	42	3.855	3.851	(0.922)	47143	34.4179	34.41
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	264513	21.2999	21.29

156	Diisopropyl ether	45	3.004	3.004 (0.719)	470397	18.6009	18.60
162	Butyl acrylate	55	8.252	8.249 (1.076)	312704	18.7623	18.76

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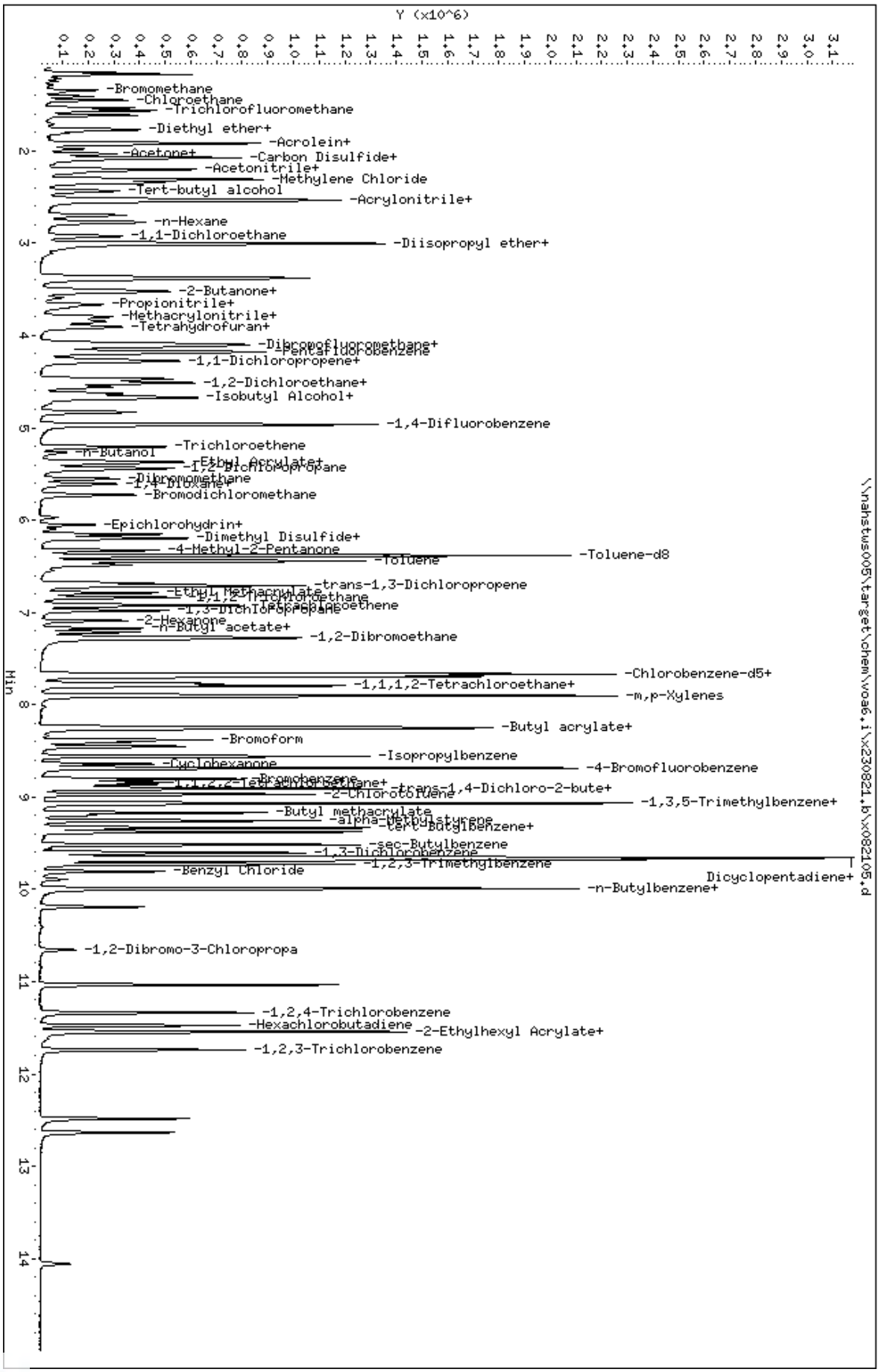
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	167 Ethanol	45	1.711	1.711	(0.409)	28926	331.596	331.59
	200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	282875	20.9974	20.99
	182 Epichlorohydrin	57	6.097	6.093	(1.228)	48474	73.7022	73.70
	164 Dicyclopentadiene	66	9.681	9.680	(1.002)	694130	22.5129	22.51
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	550695	20.3208	20.32
	205 2-Ethylhexyl Acrylate	55	11.547	11.544	(1.196)	255020	21.3814	21.38
	86 Benzyl Chloride	91	9.808	9.804	(1.279)	288036	19.6664	19.66
	134 Cyclohexanone	55	8.642	8.642	(0.895)	149966	403.350	403.34(a)
	133 Ethyl Acrylate	55	5.385	5.381	(1.288)	329463	19.8363	19.83
	163 Butyl methacrylate	41	9.171	9.167	(0.950)	236320	19.9694	19.96
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	416277	19.1641	19.16
	189 n-Butyl acetate	43	7.214	7.210	(0.941)	223077	19.0070	19.00
	2 Dichlorodifluoromethane	85	0.976	0.980	(0.234)	134556	21.2917	21.29
	3 Chloromethane	50	1.085	1.085	(0.260)	136605	19.9928	19.99
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	171945	20.4160	20.41
	6 Bromomethane	94	1.344	1.344	(0.321)	87811	19.3693	19.36
	7 Chloroethane	64	1.407	1.407	(0.337)	109634	19.8612	19.86
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	256580	21.4057	21.40
	9 Acrolein	56	1.865	1.865	(0.446)	8832	36.6818	36.68
	10 Acetone	43	1.977	1.977	(0.473)	132208	46.3347	46.33
	11 1,1-Dichloroethene	96	1.917	1.921	(0.459)	137143	20.2276	20.22
	15 Iodomethane	142	2.033	2.033	(0.486)	270516	38.2192	38.21
	16 Acrylonitrile	53	2.539	2.536	(0.607)	112904	34.5680	34.56
	17 Methylene Chloride	84	2.307	2.307	(0.552)	162187	19.0751	19.07
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	438795	18.1437	18.14
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	809829	40.2466	40.24
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	155146	19.6912	19.69
	21 Vinyl Acetate	43	3.004	3.000	(0.719)	844323	36.2273	36.22
	22 1,1-Dichloroethane	63	2.922	2.925	(0.699)	279113	18.8103	18.81
	24 2-Butanone	43	3.589	3.585	(0.858)	95869	36.8849	36.88
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	214511	21.5249	21.52
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	156723	20.7131	20.71
	28 Chloroform	83	3.908	3.908	(0.935)	259897	19.9841	19.98
	29 Bromochloromethane	128	3.799	3.795	(0.909)	85715	19.9275	19.92
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	331615	51.5195	51.51
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	229702	21.9993	21.99
	32 1,1-Dichloropropene	75	4.282	4.279	(0.863)	189068	22.3434	22.34
	33 1,2-Dichloroethane	62	4.560	4.556	(0.918)	199294	19.4946	19.49
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	200601	22.4565	22.45
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	355744	49.5926	49.59
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1075416	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	545265	20.5848	20.58
	38 Trichloroethene	130	5.205	5.205	(1.048)	158712	20.8482	20.84
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	198706	20.1421	20.14
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	88170	34.9358	34.93
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	144998	19.4134	19.41
	44 Dibromomethane	93	5.553	5.553	(1.119)	99012	19.3979	19.39
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	273387	37.2476	37.24
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	226614	20.0745	20.07
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	1023227	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1156220	48.0145	48.01
	50 Toluene	91	6.445	6.442	(0.841)	589595	20.6792	20.67

51	trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)	182859	19.3004	19.30
52	2-Hexanone	43	7.086	7.086 (0.924)	189948	38.5539	38.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
53	1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	113584	19.9854	19.98
54	1,3-Dichloropropane	76	6.981	6.978	(0.911)	228830	19.6960	19.69
55	Dibromochloromethane	129	7.176	7.173	(0.936)	169079	20.6135	20.61
56	Tetrachloroethene	164	6.925	6.925	(0.903)	134347	22.6706	22.67
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	138083	19.8887	19.88
58	1-Chlorohexane	55	7.694	7.694	(1.550)	144568	23.2344	23.23
59	Chlorobenzene	112	7.694	7.690	(1.003)	403757	20.5519	20.55
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	159119	20.9679	20.96
61	Ethylbenzene	106	7.795	7.795	(1.017)	211331	21.7821	21.78
62	m,p-Xylenes	106	7.900	7.900	(1.030)	538372	43.3785	43.37
63	o-Xylene	106	8.241	8.237	(1.075)	254376	20.7988	20.79
64	Styrene	104	8.256	8.256	(1.077)	436457	21.4598	21.45
66	Bromoform	173	8.410	8.406	(1.097)	116524	21.0550	21.05
67	Isopropylbenzene	105	8.560	8.556	(1.116)	666499	21.9297	21.92
68	1,1,2,2-Tetrachloroethane	83	8.837	8.833	(0.915)	182015	19.1515	19.15
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	508873	50.3787	50.37
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	583853	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	136882	19.5847	19.58(M)
73	n-Propylbenzene	91	8.908	8.908	(0.922)	799099	23.1480	23.14
74	Bromobenzene	156	8.803	8.803	(0.912)	196526	21.0599	21.05
75	1,3,5-Trimethylbenzene	105	9.066	9.062	(0.939)	555019	21.9925	21.99
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	470325	21.2758	21.27
77	4-Chlorotoluene	91	9.066	9.066	(0.939)	541825	21.3014	21.30
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	499395	23.0974	23.09
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	559089	21.5133	21.51
81	sec-Butylbenzene	105	9.519	9.516	(0.986)	703144	23.7226	23.72
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	616900	23.0187	23.01
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	354446	21.3266	21.32
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	375867	21.1170	21.11
87	n-Butylbenzene	91	9.992	9.988	(1.035)	553655	22.3819	22.38
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	345488	20.5936	20.59
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	31511	19.6049	19.60
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.174)	236343	21.2889	21.28
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	124685	31.9776	31.97
92	Naphthalene	128	11.540	11.540	(1.195)	523125	18.8787	18.87
93	1,2,3-Trichlorobenzene	180	11.739	11.738	(1.215)	222906	20.6042	20.60
M 94	1,2-Dichloroethylene (total)	96				311869	40.4042	40.40
M 95	Xylenes (total)	106				792748	64.1773	64.17
141	Cyclohexane	56	4.118	4.118	(0.985)	217983	24.1864	24.18
138	Freon TF	101	1.921	1.921	(0.459)	147768	22.9855	22.98
147	Methylcyclohexane	55	5.385	5.381	(1.085)	329463	20.3929	20.39
146	Methyl Acetate	43	2.236	2.232	(0.535)	111795	17.7182	17.71
148	Tert-Butyl alcohol	59	2.438	2.434	(0.583)	309186	357.050	357.05
149	Isopropyl Alcohol	45	2.097	2.097	(0.502)	171230	338.988	338.98

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\voa6.i\x230821.b\x082105.d
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Sample Info: VLCSW-230821;VLCSW-230821;3;;LCS
Purge Volume: 5.0
Column phase: DB624

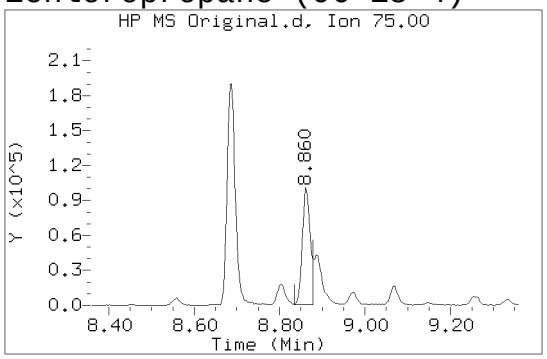
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa6.i\x230821.b\x082105.d
Inj Date : 21-AUG-2023 09:33
InstruID : voa6.i
LabSampID : VLCSW-230821

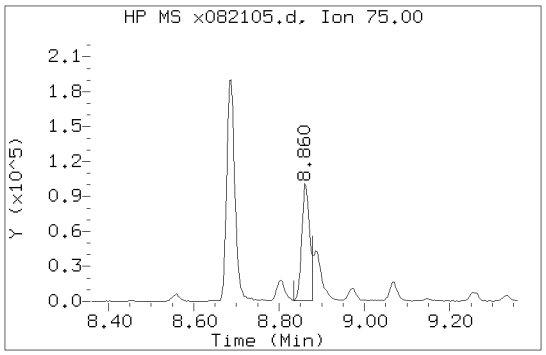
1,2,3-Trichloropropane (96-18-4)

Reason Code:

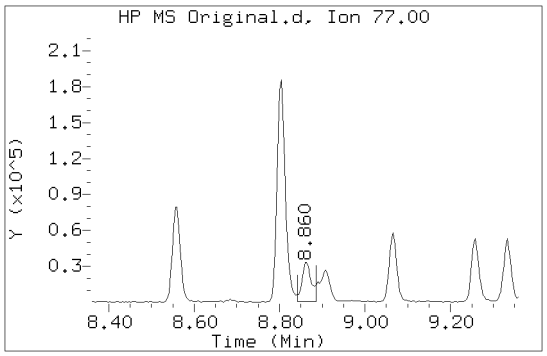
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22-Aug-2023
09:23



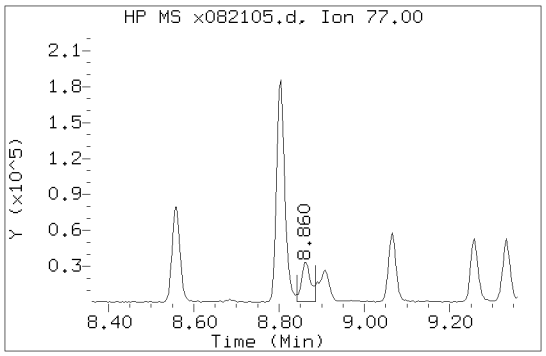
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BEFORE
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22-Aug-2023
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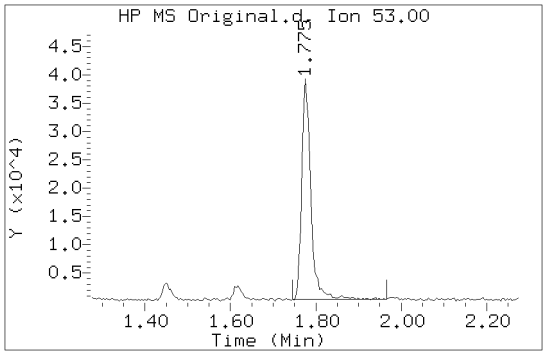
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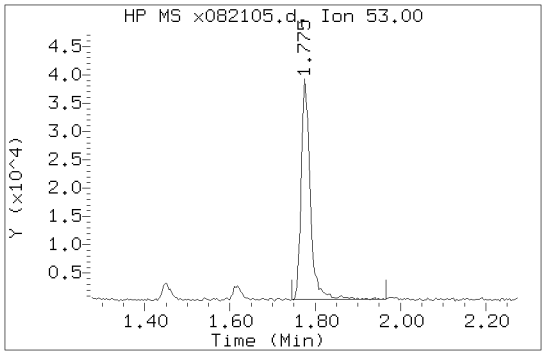
Chloroprene (126-99-8)

Reason Code:

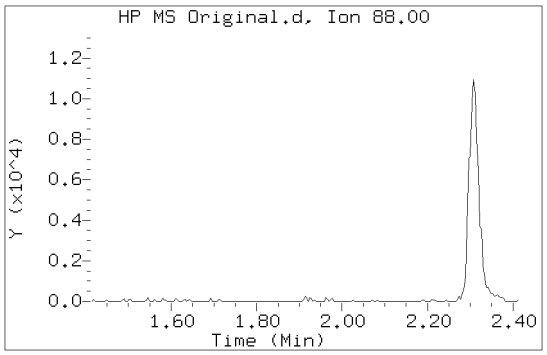
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22-Aug-2023
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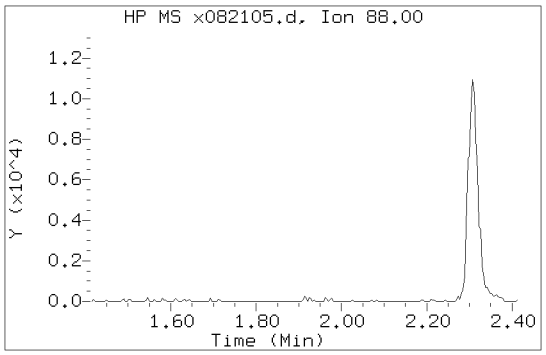
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BEFORE
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09:23



AFTER
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22-Aug-2023
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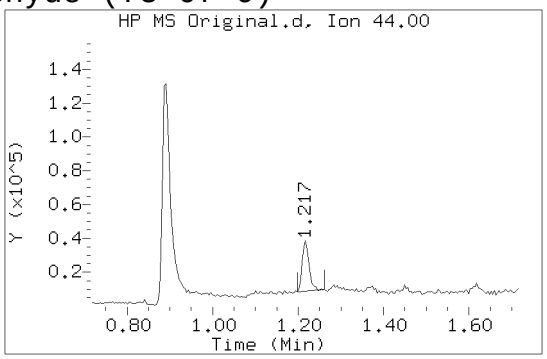


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InstruID : voa6.i
LabSampID : VLCSW-230821

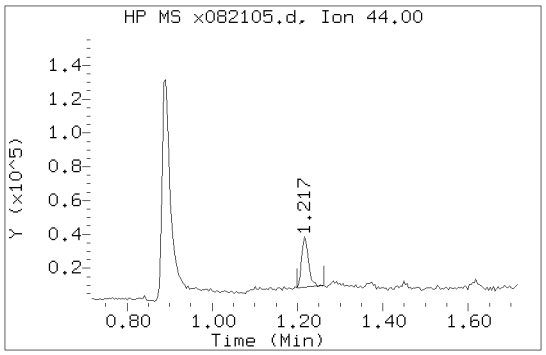
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Reason Code:

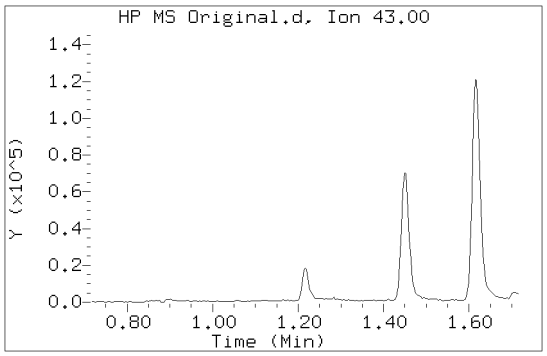
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22-Aug-2023
09:23



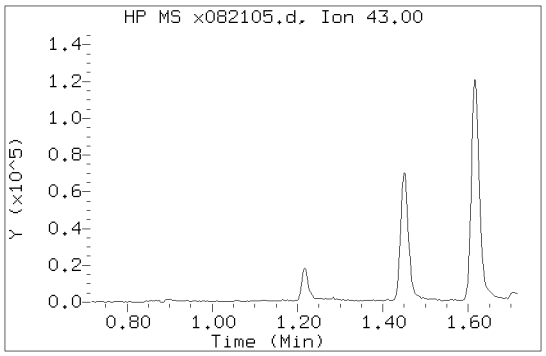
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22-Aug-2023
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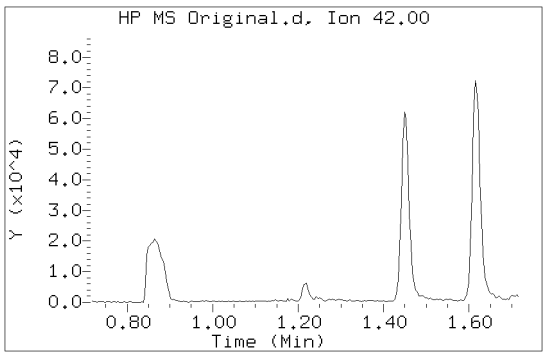
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22-Aug-2023
09:23



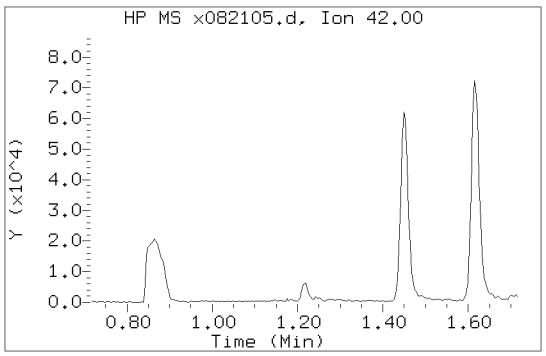
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22-Aug-2023
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BEFORE
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HEIGHT
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22-Aug-2023
09:23



AFTER
MASS
42
AREA
0
HEIGHT
0
22-Aug-2023
09:23



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082107.D Page 1
Report Date: 22-Aug-2023 09:23

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082107.D
Lab Smp Id: VBLKW-230821 Client Smp ID: VBLKW-230821
Inj Date : 21-AUG-2023 10:14
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230821;VBLKW-230821;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 22:09 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	682231	50.0000	
6 Bromomethane	94	1.096	1.344	(0.262)	2452	0.55666	0.55(a)
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	320952	51.3164	51.31
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	352450	50.5907	50.59
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	979243	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	922904	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	1127751	51.9231	51.92
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	413559	45.4209	45.42
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	511816	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01251441

Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082107.d

Page 1

Date : 21-AUG-2023 10:14

Client ID: VBLKW-230821

Instrument: voa6.i

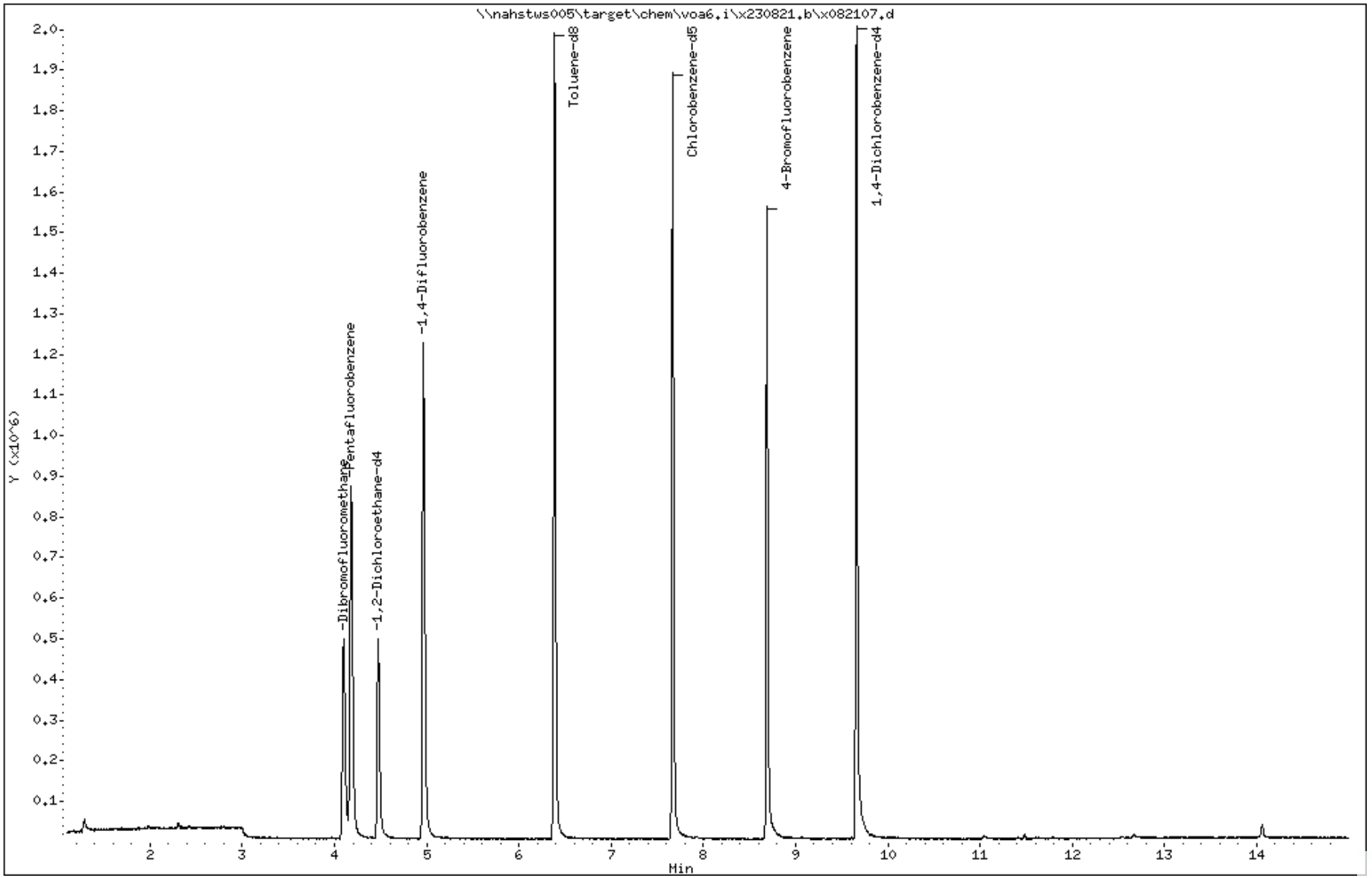
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 21-AUG-2023 10:14
InstruID : voa6.i
LabSampID : VBLKW-230821

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082121.D Page 1
Report Date: 22-Aug-2023 09:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082121.D
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Inj Date : 21-AUG-2023 15:51
Operator : PC Inst ID: voa6.i
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Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 22:09 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 20 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	677527	50.0000	
135 1,4-Dioxane	88	5.606	5.602	(1.341)	25699	298.413	298.41(a)
140 1,3-Butadiene	54	1.167	1.171	(0.279)	143791	20.5999	20.59
25 Methacrylonitrile	41	3.848	3.825	(0.920)	120225	17.7921	17.79
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	364599	343.304	343.30
13 Acetonitrile	39	2.202	2.202	(0.527)	193764	185.442	185.44
14 Allyl Chloride	41	2.202	2.202	(0.527)	359393	17.4120	17.41
4 Propionitrile	54	3.660	3.656	(0.875)	168428	178.507	178.50(a)
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	42804	18.5953	18.59
194 Acetaldehyde	44	1.216	1.216	(0.291)	43180	57.2876	57.28
23 Chloroprene	53	1.775	1.775	(0.425)	59637	20.8069	20.80(M)
130 Ethyl Acetate	43	3.664	3.664	(0.876)	141466	18.1905	18.19
40 Methyl Methacrylate	41	5.610	5.609	(1.342)	109005	17.4862	17.48
49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	181645	19.9569	19.95
131 Methyl Acrylate	55	3.698	3.694	(0.884)	112083	16.7449	16.74
132 n-Butanol	56	5.268	5.261	(1.260)	47942	317.223	317.22(a)
136 n-Hexane	57	2.768	2.772	(0.662)	173670	28.8477	28.84
139 Diethyl ether	59	1.760	1.760	(0.421)	107442	17.9670	17.96
142 Tetrahydrofuran	42	3.851	3.851	(0.921)	42578	32.2154	32.21
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	242563	21.9851	21.98

156	Diisopropyl ether	45	3.004	3.004 (0.719)	440586	18.0555	18.05
162	Butyl acrylate	55	8.252	8.249 (1.076)	290370	19.5264	19.52

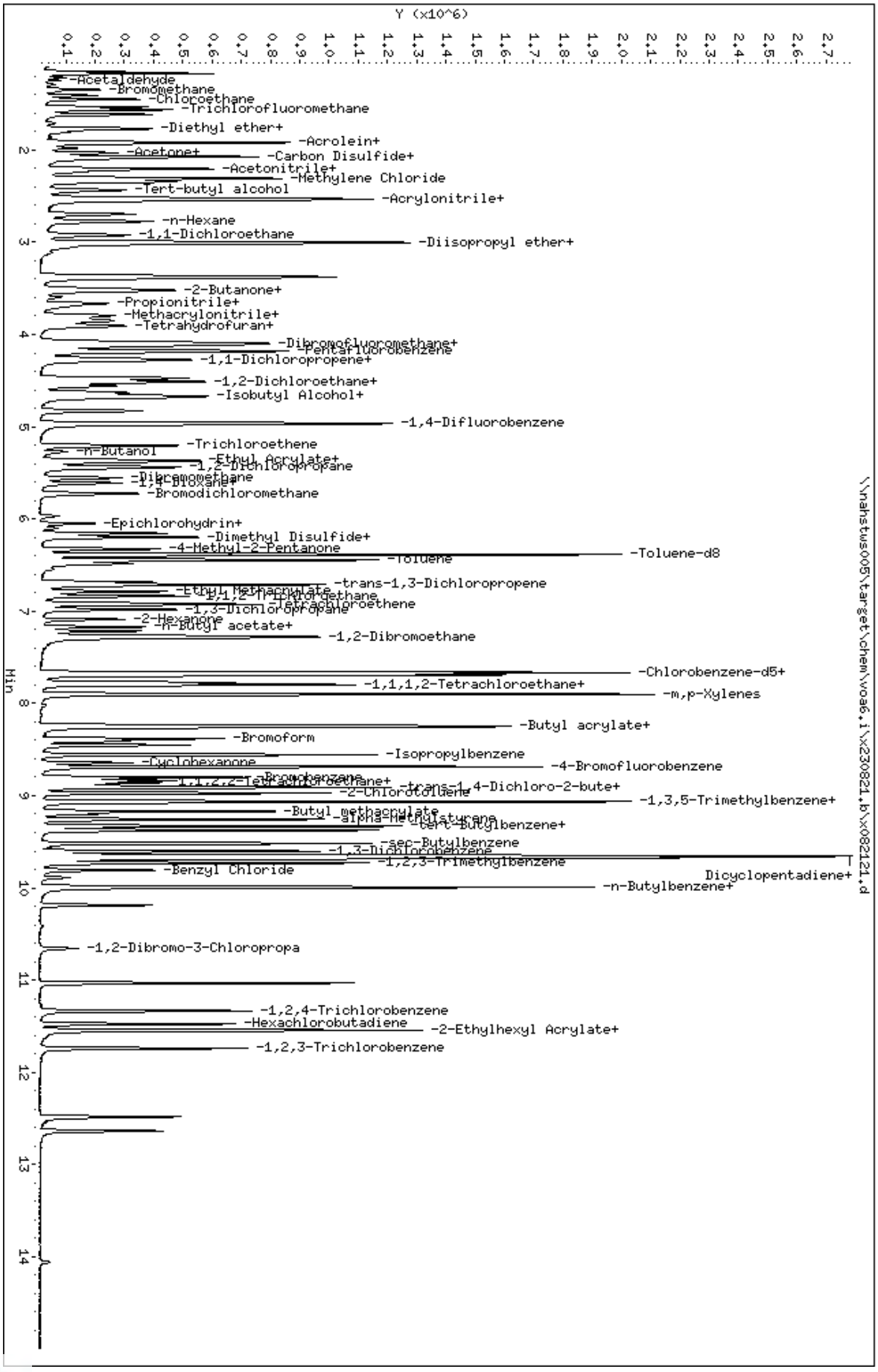
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		QUANT SIG					ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	167 Ethanol	45	1.707	1.711	(0.408)	29455	351.333	351.33
	200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	259521	21.5904	21.59
	182 Epichlorohydrin	57	6.097	6.093	(1.228)	40298	66.3239	66.32
	164 Dicyclopentadiene	66	9.681	9.680	(1.002)	667740	24.3665	24.36
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	520596	21.6224	21.62
	205 2-Ethylhexyl Acrylate	55	11.547	11.544	(1.196)	229434	21.6518	21.65
	86 Benzyl Chloride	91	9.808	9.804	(1.279)	234094	17.9137	17.91
	134 Cyclohexanone	55	8.642	8.642	(0.895)	102138	309.208	309.20(a)
	133 Ethyl Acrylate	55	5.385	5.381	(1.288)	317933	19.8381	19.83
	163 Butyl methacrylate	41	9.171	9.167	(0.950)	219677	20.8941	20.89
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	369989	18.4378	18.43
	189 n-Butyl acetate	43	7.214	7.210	(0.941)	201889	19.2791	19.27
	2 Dichlorodifluoromethane	85	0.976	0.980	(0.234)	129847	21.2936	21.29
	3 Chloromethane	50	1.085	1.085	(0.260)	121307	18.3994	18.39
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	171231	21.0705	21.07
	6 Bromomethane	94	1.344	1.344	(0.321)	80767	18.4633	18.46
	7 Chloroethane	64	1.407	1.407	(0.337)	108445	20.3601	20.36
	8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	252339	21.8174	21.81
	9 Acrolein	56	1.861	1.865	(0.445)	11626	51.0413	51.04
	10 Acetone	43	1.977	1.977	(0.473)	94294	33.0495	33.04
	11 1,1-Dichloroethene	96	1.917	1.921	(0.459)	133969	20.4779	20.47
	15 Iodomethane	142	2.030	2.033	(0.485)	244020	36.1120	36.11
	16 Acrylonitrile	53	2.539	2.536	(0.607)	108928	34.5633	34.56
	17 Methylene Chloride	84	2.307	2.307	(0.552)	149920	18.2735	18.27
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.607)	410816	17.6045	17.60
	19 Carbon Disulfide	76	2.075	2.075	(0.496)	794082	40.8989	40.89
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	148034	19.4717	19.47
	21 Vinyl Acetate	43	3.001	3.000	(0.718)	764566	33.9980	33.99
	22 1,1-Dichloroethane	63	2.922	2.925	(0.699)	265933	18.5737	18.57
	24 2-Butanone	43	3.589	3.585	(0.858)	75175	29.9747	29.97
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	193730	20.1454	20.14
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.844)	144048	19.7301	19.73
	28 Chloroform	83	3.904	3.908	(0.934)	243411	19.3970	19.39
	29 Bromochloromethane	128	3.799	3.795	(0.909)	79980	19.2703	19.27
$	30 Dibromofluoromethane	113	4.099	4.099	(0.980)	323836	52.1504	52.15
	31 1,1,1-Trichloroethane	97	4.084	4.080	(0.977)	212054	21.0475	21.04
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	175934	22.5059	22.50
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	183743	19.4556	19.45
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	184816	22.3956	22.39
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.070)	348787	50.4086	50.40
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	993486	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	518346	21.1823	21.18
	38 Trichloroethene	130	5.208	5.205	(1.049)	153658	21.8488	21.84
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	179363	19.6808	19.68
	41 2-Chloroethylvinyl ether	63	6.052	6.048	(1.219)	75866	32.5396	32.53
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	131604	19.0732	19.07
	44 Dibromomethane	93	5.553	5.553	(1.119)	90485	19.1893	19.18
	45 4-Methyl-2-Pentanone	43	6.326	6.325	(0.825)	249336	38.0734	38.07
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	206645	19.8152	19.81
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	912969	50.0000	
$	48 Toluene-d8	98	6.382	6.385	(0.832)	1120223	52.1377	52.13
	50 Toluene	91	6.446	6.442	(0.841)	549301	21.5927	21.59

51 trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)	160731	18.3639	18.36
52 2-Hexanone	43	7.087	7.086 (0.924)	162249	36.9090	36.90

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
53	1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	106256	20.9539	20.95
54	1,3-Dichloropropane	76	6.982	6.978	(0.911)	212282	20.4783	20.47
55	Dibromochloromethane	129	7.173	7.173	(0.935)	150406	20.5515	20.55
56	Tetrachloroethene	164	6.925	6.925	(0.903)	128984	24.3942	24.39
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	130730	21.1037	21.10
58	1-Chlorohexane	55	7.694	7.694	(1.550)	135155	23.5128	23.51
59	Chlorobenzene	112	7.690	7.690	(1.003)	373068	21.2832	21.28
60	1,1,1,2-Tetrachloroethane	131	7.773	7.772	(1.014)	143934	21.2575	21.25
61	Ethylbenzene	106	7.799	7.795	(1.017)	195849	22.6242	22.62
62	m,p-Xylenes	106	7.900	7.900	(1.030)	496317	44.8195	44.81
63	o-Xylene	106	8.241	8.237	(1.075)	239384	21.9368	21.93
64	Styrene	104	8.256	8.256	(1.077)	401251	22.1114	22.11
66	Bromoform	173	8.410	8.406	(1.097)	101698	20.5953	20.59
67	Isopropylbenzene	105	8.560	8.556	(1.116)	634240	23.3885	23.38
68	1,1,2,2-Tetrachloroethane	83	8.833	8.833	(0.915)	164700	19.5058	19.50
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	425336	47.2116	47.21
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	518716	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.860	(0.918)	168686	27.1658	27.16
73	n-Propylbenzene	91	8.908	8.908	(0.922)	738498	24.0789	24.07
74	Bromobenzene	156	8.803	8.803	(0.912)	181102	21.8440	21.84
75	1,3,5-Trimethylbenzene	105	9.066	9.062	(0.939)	509661	22.7311	22.73
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	438346	22.3192	22.31
77	4-Chlorotoluene	91	9.070	9.066	(0.939)	505061	22.3494	22.34
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	463520	24.1303	24.13
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	516307	22.3618	22.36
81	sec-Butylbenzene	105	9.519	9.516	(0.986)	653213	24.8054	24.80
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	565532	23.7518	23.75
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	320677	21.7177	21.71
84	1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	346754	21.9277	21.92
87	n-Butylbenzene	91	9.992	9.988	(1.035)	499946	22.7156	22.71
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	314296	21.0868	21.08
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.104)	26493	18.5528	18.55
90	1,2,4-Trichlorobenzene	180	11.338	11.334	(1.174)	210715	21.3639	21.36
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	104842	30.3717	30.37
92	Naphthalene	128	11.544	11.540	(1.195)	465051	18.8904	18.89
93	1,2,3-Trichlorobenzene	180	11.739	11.738	(1.215)	193683	20.1511	20.15
M 94	1,2-Dichloroethylene (total)	96				292082	39.2018	39.20
M 95	Xylenes (total)	106				735701	66.7563	66.75
141	Cyclohexane	56	4.121	4.118	(0.986)	196150	22.6791	22.67
138	Freon TF	101	1.917	1.921	(0.459)	145930	23.4983	23.49
147	Methylcyclohexane	55	5.385	5.381	(1.085)	317933	21.3022	21.30
146	Methyl Acetate	43	2.236	2.232	(0.535)	107463	17.6509	17.65
148	Tert-Butyl alcohol	59	2.434	2.434	(0.582)	295408	353.416	353.41
149	Isopropyl Alcohol	45	2.101	2.097	(0.502)	166902	342.565	342.56

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Instrument: voa6.i
Operator: PC
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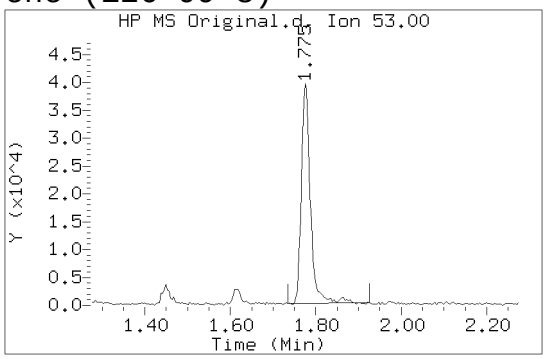
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Chloroprene (126-99-8)

Reason Code:

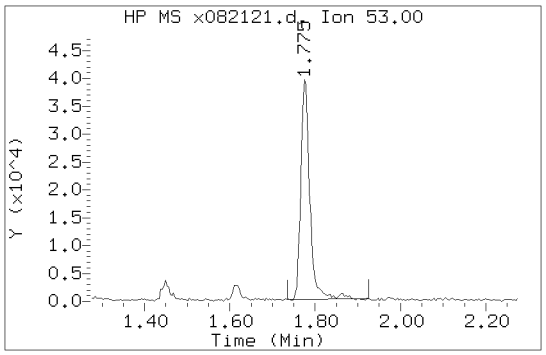
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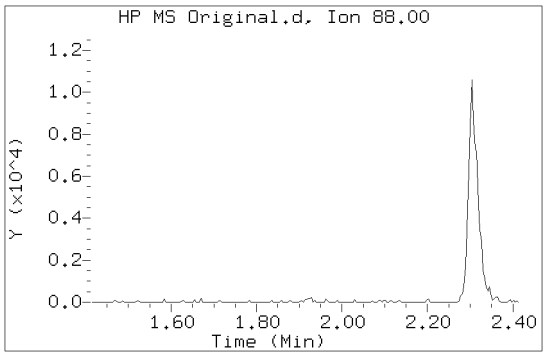
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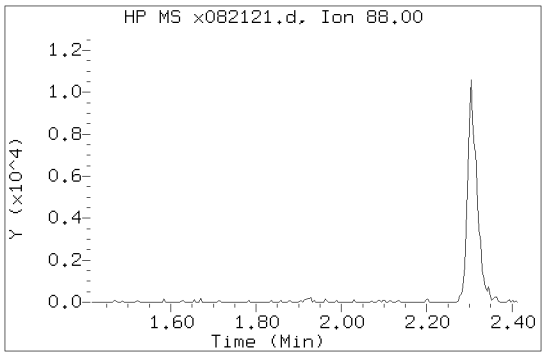
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Report Date: 22-Aug-2023 09:33

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082122.D
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Als bottle: 20 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.181	(1.000)	694999	50.0000	
135 1,4-Dioxane	88	5.602	5.602	(1.341)	28887	326.999	326.99(a)
140 1,3-Butadiene	54	1.167	1.171	(0.280)	141806	19.8048	19.80
25 Methacrylonitrile	41	3.844	3.825	(0.920)	121283	17.4975	17.49
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	384701	353.126	353.12
13 Acetonitrile	39	2.202	2.202	(0.527)	194481	181.449	181.44
14 Allyl Chloride	41	2.202	2.202	(0.527)	364611	17.2207	17.22
4 Propionitrile	54	3.660	3.656	(0.876)	170932	176.607	176.60(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	44238	18.0623	18.06
194 Acetaldehyde	44	1.216	1.216	(0.291)	45194	58.6278	58.62
23 Chloroprene	53	1.775	1.775	(0.425)	58174	19.7862	19.78(M)
130 Ethyl Acetate	43	3.668	3.664	(0.878)	144235	18.0803	18.08
40 Methyl Methacrylate	41	5.609	5.609	(1.343)	106490	16.6533	16.65
49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	175704	18.5067	18.50
131 Methyl Acrylate	55	3.698	3.694	(0.885)	108793	15.8448	15.84
132 n-Butanol	56	5.272	5.261	(1.262)	49151	317.085	317.08(a)
136 n-Hexane	57	2.772	2.772	(0.664)	170937	27.7305	27.73
139 Diethyl ether	59	1.760	1.760	(0.421)	110128	17.9532	17.95
142 Tetrahydrofuran	42	3.855	3.851	(0.923)	43033	31.7411	31.74
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	238741	19.6098	19.60

156	Diisopropyl ether	45	3.004	3.004 (0.719)	435797	17.4103	17.41
162	Butyl acrylate	55	8.252	8.249 (1.076)	297128	18.7790	18.77

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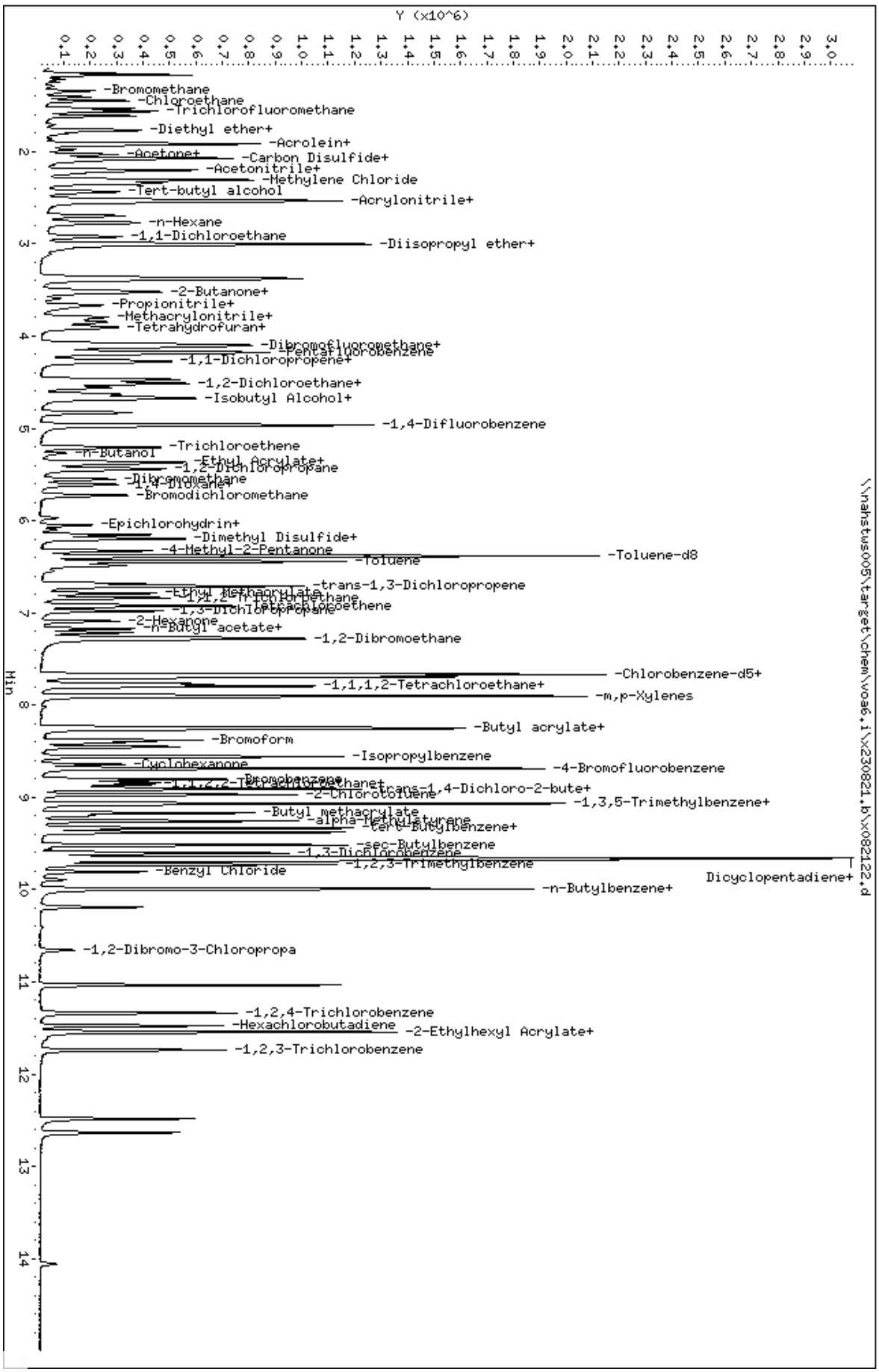
		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	167 Ethanol	45	1.711	1.711	(0.410)	30457	354.354	354.35
	200 Dimethyl Disulfide	94	6.198	6.194	(0.808)	262644	20.5359	20.53
	182 Epichlorohydrin	57	6.097	6.093	(1.228)	44044	69.4945	69.49
	164 Dicyclopentadiene	66	9.680	9.680	(1.002)	666828	22.0627	22.06
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	520537	19.5928	19.59
	205 2-Ethylhexyl Acrylate	55	11.547	11.544	(1.196)	240044	20.5290	20.52
	86 Benzyl Chloride	91	9.808	9.804	(1.279)	237193	17.0591	17.05
	134 Cyclohexanone	55	8.642	8.642	(0.895)	104661	287.136	287.13(a)
	133 Ethyl Acrylate	55	5.385	5.381	(1.289)	323467	19.6760	19.67
	163 Butyl methacrylate	41	9.171	9.167	(0.950)	224317	19.3349	19.33
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	387380	18.5069	18.50
	189 n-Butyl acetate	43	7.214	7.210	(0.941)	206551	18.5379	18.53
	2 Dichlorodifluoromethane	85	0.976	0.980	(0.234)	127571	20.4226	20.42
	3 Chloromethane	50	1.081	1.085	(0.259)	124357	18.3879	18.38
	5 Vinyl Chloride	62	1.149	1.149	(0.275)	167722	20.1199	20.11
	6 Bromomethane	94	1.340	1.344	(0.321)	80428	17.9236	17.92
	7 Chloroethane	64	1.407	1.407	(0.337)	101579	18.5916	18.59
	8 Trichlorofluoromethane	101	1.565	1.565	(0.375)	248831	20.9732	20.97
	9 Acrolein	56	1.861	1.865	(0.446)	14395	62.1773	62.17
	10 Acetone	43	1.977	1.977	(0.473)	93368	31.7427	31.74
	11 1,1-Dichloroethene	96	1.921	1.921	(0.460)	134148	19.9898	19.98
	15 Iodomethane	142	2.030	2.033	(0.486)	266649	38.0856	38.08
	16 Acrylonitrile	53	2.539	2.536	(0.608)	111714	34.5561	34.55
	17 Methylene Chloride	84	2.307	2.307	(0.552)	148678	17.6665	17.66
	18 Methyl tert-butyl ether	73	2.539	2.539	(0.608)	414621	17.3208	17.32
	19 Carbon Disulfide	76	2.075	2.075	(0.497)	769545	38.6388	38.63
	20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	145483	18.6550	18.65
	21 Vinyl Acetate	43	3.004	3.000	(0.719)	765312	33.1756	33.17
	22 1,1-Dichloroethane	63	2.922	2.925	(0.699)	263362	17.9318	17.93
	24 2-Butanone	43	3.589	3.585	(0.859)	84298	32.7673	32.76
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	187143	18.9702	18.97
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.845)	142393	19.0131	19.01
	28 Chloroform	83	3.904	3.908	(0.935)	238966	18.5641	18.56
	29 Bromochloromethane	128	3.795	3.795	(0.908)	77843	18.2839	18.28
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	330238	51.8395	51.83
	31 1,1,1-Trichloroethane	97	4.084	4.080	(0.978)	213121	20.6216	20.62
	32 1,1-Dichloropropene	75	4.282	4.279	(0.863)	172709	21.1806	21.18
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	184555	18.7343	18.73
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	184820	21.4708	21.47
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	358844	50.5616	50.56
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1036298	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	507385	19.8778	19.87
	38 Trichloroethene	130	5.208	5.205	(1.049)	153247	20.8902	20.89
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	176478	18.5642	18.56
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	77741	31.9662	31.96
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	136337	18.9429	18.94
	44 Dibromomethane	93	5.553	5.553	(1.119)	92646	18.8359	18.83
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	252102	36.1803	36.18
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	203556	18.7126	18.71
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	971397	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1166835	51.0407	51.04
	50 Toluene	91	6.445	6.442	(0.841)	541952	20.0224	20.02

51 trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)	165073	18.0808	18.08
52 2-Hexanone	43	7.090	7.086 (0.925)	170429	36.4378	36.43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
53	1,1,2-Trichloroethane	83	6.835	6.839	(0.891)	107302	19.8874	19.88
54	1,3-Dichloropropane	76	6.981	6.978	(0.911)	212038	19.2244	19.22
55	Dibromochloromethane	129	7.173	7.173	(0.935)	150416	19.3166	19.31
56	Tetrachloroethene	164	6.925	6.925	(0.903)	126160	22.4249	22.42
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	130728	19.8340	19.83
58	1-Chlorohexane	55	7.694	7.694	(1.550)	131295	21.8977	21.89
59	Chlorobenzene	112	7.690	7.690	(1.003)	372867	19.9922	19.99
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	141354	19.6208	19.62
61	Ethylbenzene	106	7.795	7.795	(1.017)	194383	21.1042	21.10
62	m,p-Xylenes	106	7.900	7.900	(1.030)	495337	42.0405	42.04
63	o-Xylene	106	8.241	8.237	(1.075)	236382	20.3588	20.35
64	Styrene	104	8.256	8.256	(1.077)	390010	20.1993	20.19
66	Bromoform	173	8.410	8.406	(1.097)	101676	19.3524	19.35
67	Isopropylbenzene	105	8.556	8.556	(1.116)	624021	21.6275	21.62
68	1,1,2,2-Tetrachloroethane	83	8.833	8.833	(0.915)	166545	17.8748	17.87
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	451689	47.1216	47.12
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	572386	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.860	(0.918)	180193	26.2980	26.29
73	n-Propylbenzene	91	8.908	8.908	(0.922)	733961	21.6871	21.68
74	Bromobenzene	156	8.803	8.803	(0.912)	180934	19.7774	19.77
75	1,3,5-Trimethylbenzene	105	9.066	9.062	(0.939)	506064	20.4544	20.45
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	432149	19.9405	19.94
77	4-Chlorotoluene	91	9.069	9.066	(0.939)	502237	20.1406	20.14
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	459816	21.6929	21.69
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	508365	19.9533	19.95
81	sec-Butylbenzene	105	9.519	9.516	(0.986)	648138	22.3049	22.30
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	569452	21.6739	21.67
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	324197	19.8973	19.89
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	351440	20.1402	20.14
87	n-Butylbenzene	91	9.992	9.988	(1.035)	494748	20.5800	20.58
88	1,2-Dichlorobenzene	146	9.992	9.988	(1.035)	311097	18.9151	18.91
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.104)	27605	17.5189	17.51
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.174)	210499	19.3409	19.34
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	107846	28.4252	28.42
92	Naphthalene	128	11.540	11.540	(1.195)	486602	17.9124	17.91
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	201060	18.9572	18.95
M 94	1,2-Dichloroethylene (total)	96				287876	37.6682	37.66
M 95	Xylenes (total)	106				731719	62.3993	62.39
141	Cyclohexane	56	4.118	4.118	(0.986)	206935	23.2723	23.27
138	Freon TF	101	1.917	1.921	(0.459)	142947	22.4905	22.49
147	Methylcyclohexane	55	5.385	5.381	(1.085)	323467	20.7776	20.77
146	Methyl Acetate	43	2.236	2.232	(0.535)	106215	17.0074	17.00
148	Tert-Butyl alcohol	59	2.438	2.434	(0.584)	299281	348.888	348.88
149	Isopropyl Alcohol	45	2.101	2.097	(0.503)	172260	344.753	344.75

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\voa6.i\x230821.b\x082122.d
Date : 21-AUG-2023 16:11
Client ID: HS23081216-13HSD
Sample Info: HS230081216-13HSD;HS230081216-13HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

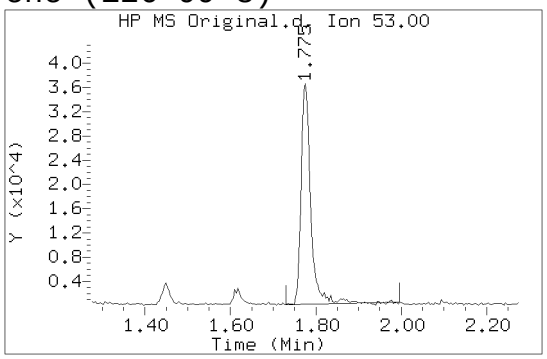
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Inj Date : 21-AUG-2023 16:11
InstruID : voa6.i
LabSampID : HS23081216-13MSD

Chloroprene (126-99-8)

Reason Code:

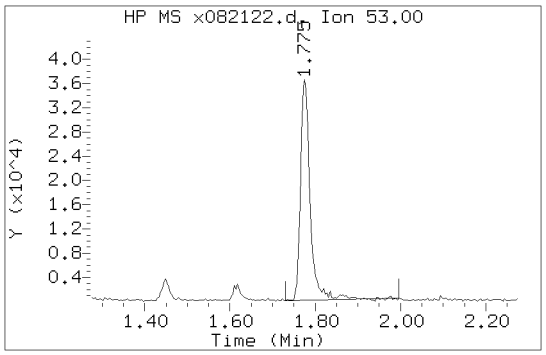
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MASS
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HEIGHT
36390
22-Aug-2023
10:47
firat
tastan



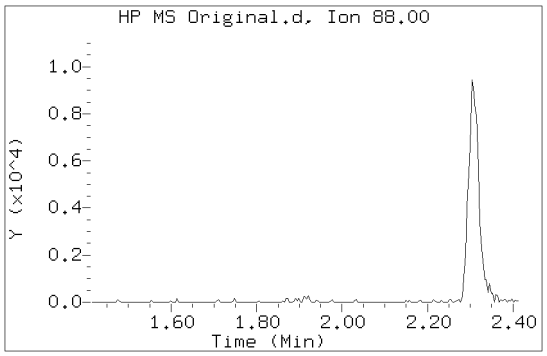
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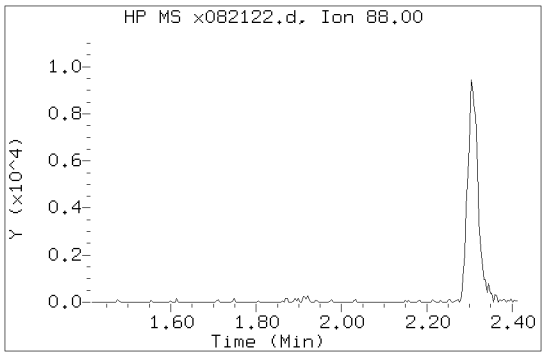
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22-Aug-2023
10:47
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tastan



AFTER

MASS
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22-Aug-2023
10:47
firat
tastan



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082127.D Page 1
Report Date: 24-Aug-2023 12:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082127.D
Lab Smp Id: HS23081076-03 Client Smp ID: HS23081076-03
Inj Date : 21-AUG-2023 17:54
Operator : PC Inst ID: voa6.i
Smp Info : HS23081076-03;HS23081076-03;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 22-Aug-2023 10:20 voa6.i Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	666669	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.099	(0.982)	315341	51.6007	51.60
$ 35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	354685	52.1332	52.13
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	964300	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	885371	50.0000	
$ 48 Toluene-d8	98	6.385	6.382	(0.833)	1101011	52.8409	52.84
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	384256	44.0005	44.00
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	464768	50.0000	

01251458

Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082127.d

Page 1

Date : 21-AUG-2023 17:54

Client ID: HS23081076-03

Instrument: voa6.i

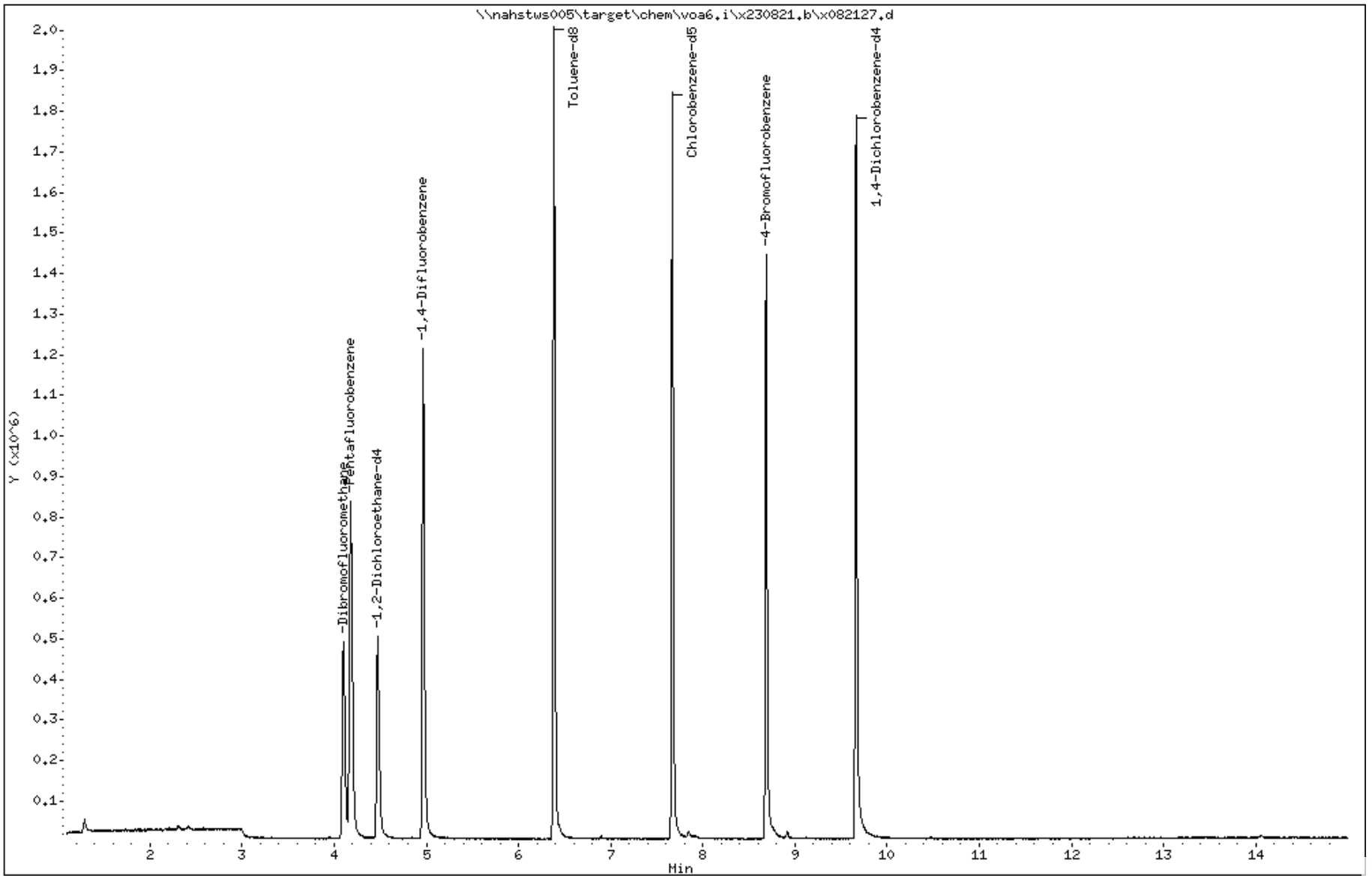
Sample Info: HS23081076-03;HS23081076-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 21-AUG-2023 17:54
InstruID : voa6.i
LabSampID : HS23081076-03

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa6.i\X230821.b\X082128.D Page 1
Report Date: 21-Aug-2023 21:14

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa6.i\X230821.b\X082128.D
Lab Smp Id: HS23081076-01 Client Smp ID: HS23081076-01
Inj Date : 21-AUG-2023 18:14
Operator : PC Inst ID: voa6.i
Smp Info : HS23081076-01;HS23081076-01;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 10:53 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.181	(1.000)	660783	50.0000	
	135 1,4-Dioxane	88	5.621	5.602	(1.345)	697	8.29854	8.29(a)
	25 Methacrylonitrile	41	3.866	3.825	(0.926)	6977	1.05869	1.05(a)
	142 Tetrahydrofuran	42	3.874	3.851	(0.927)	13236	10.2684	10.26
	5 Vinyl Chloride	62	1.145	1.149	(0.274)	6308	0.79589	0.79(a)
	7 Chloroethane	64	1.145	1.407	(0.274)	2885	0.55537	0.55(a)
	24 2-Butanone	43	3.866	3.585	(0.926)	2781	1.13697	1.13(a)
	27 cis-1,2-Dichloroethene	96	3.536	3.525	(0.847)	21749	3.05442	3.05(a)
$	30 Dibromofluoromethane	113	4.102	4.099	(0.982)	309835	51.1441	51.14
	34 Carbon Tetrachloride	117	4.181	4.264	(0.842)	57898	7.20899	7.20
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	351875	52.1819	52.18
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	966883	50.0000	
	42 1,2-Dichloropropane	63	4.965	5.433	(1.000)	179332	26.7055	26.70
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	892113	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1109370	52.8397	52.83
	52 2-Hexanone	43	7.038	7.086	(0.918)	14254	3.31835	3.31(a)
	58 1-Chlorohexane	55	7.667	7.694	(1.544)	9095	1.62579	1.62(a)
	66 Bromoform	173	8.691	8.406	(1.133)	3412	0.70713	0.70(a)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	397863	45.2065	45.20
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.658	(1.000)	479169	50.0000	

	71	1,2,3-Trichloropropane	75	8.687	8.860 (0.899)	198389	34.5861	34.58
M	94	1,2-Dichloroethylene (total)	96			21749	3.05442	3.05(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
141 Cyclohexane	56	4.174	4.118	(0.999)	12320	3.17778	3.17(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01251463

Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082128.d

Date : 21-AUG-2023 18:14

Client ID: HS23081076-01

Instrument: voa6.i

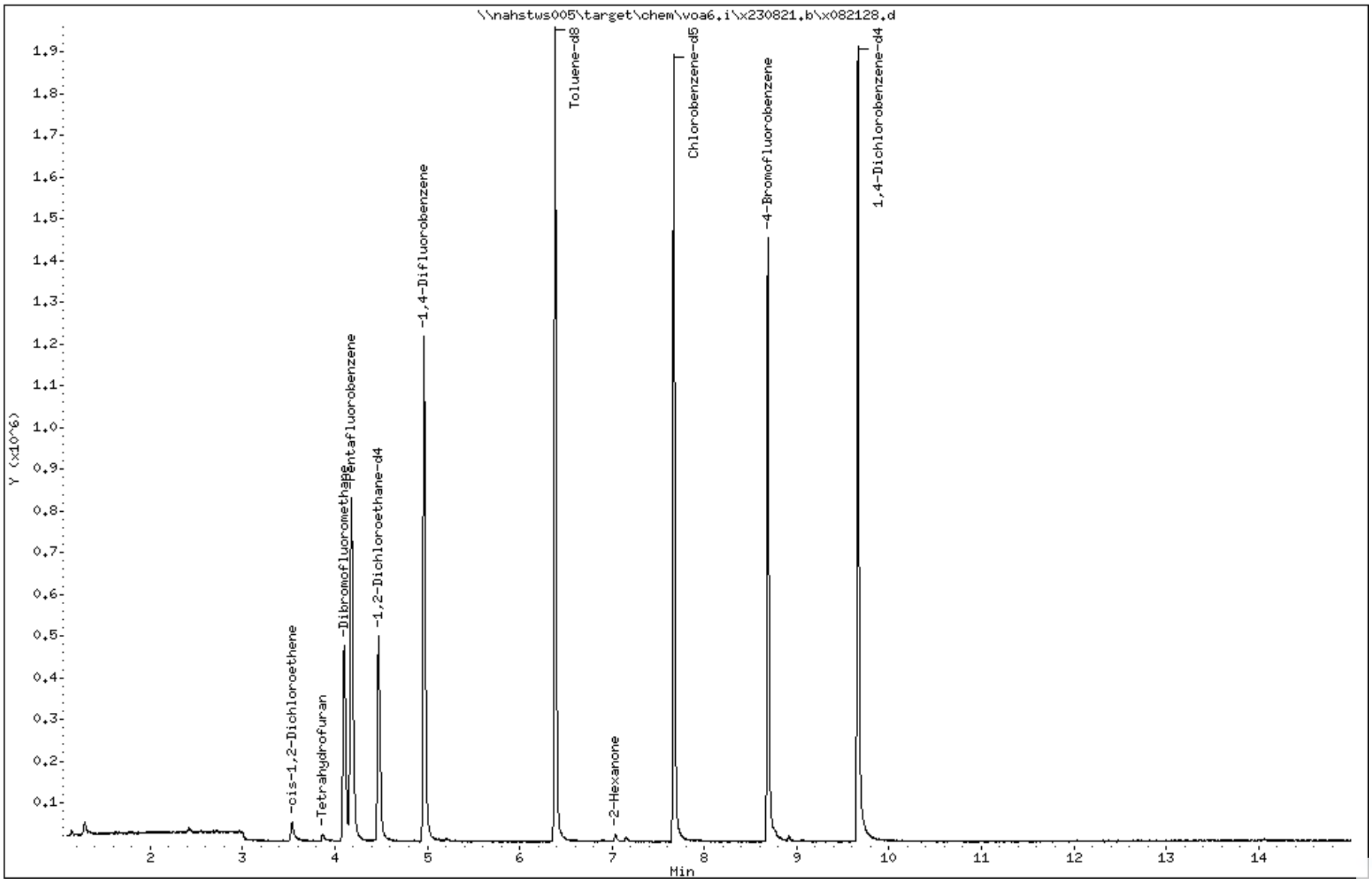
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Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082128.d

Date : 21-AUG-2023 18:14

Client ID: HS23081076-01

Instrument: voa6.i

Sample Info: HS23081076-01;HS23081076-01;;;

Purge Volume: 5.0

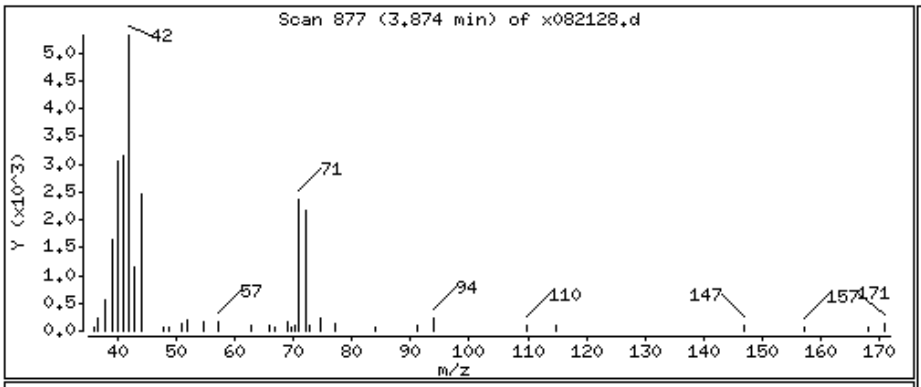
Operator: PC

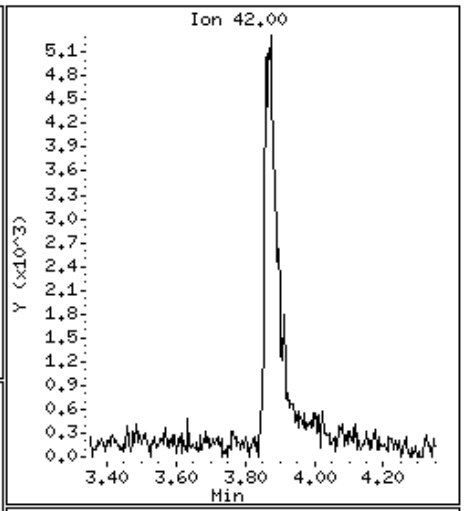
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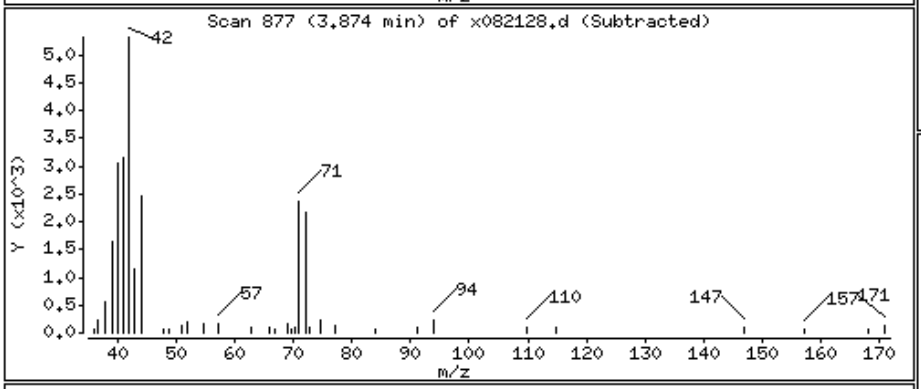
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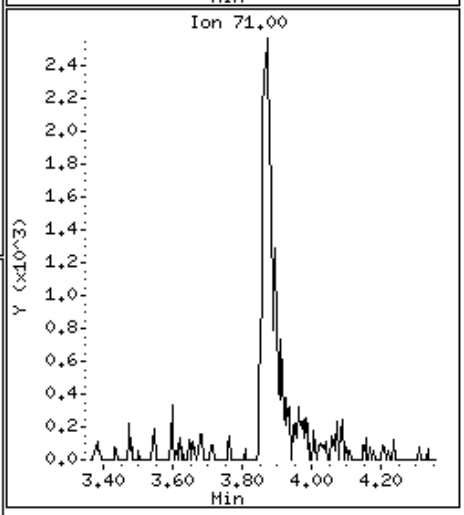
142 Tetrahydrofuran

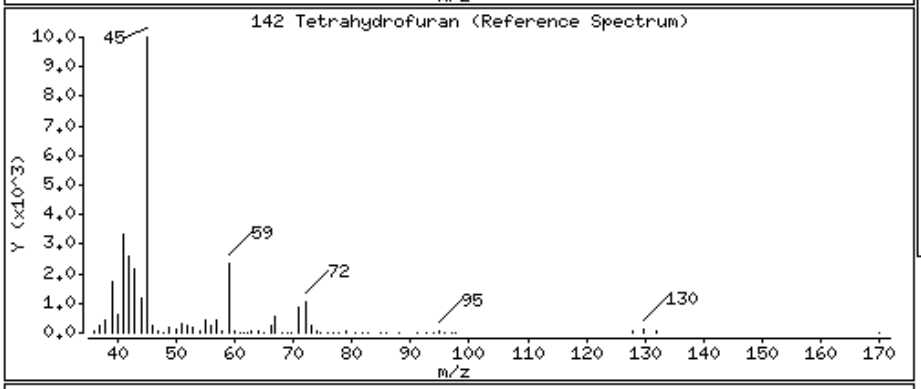
Concentration: 10.26 ug/l

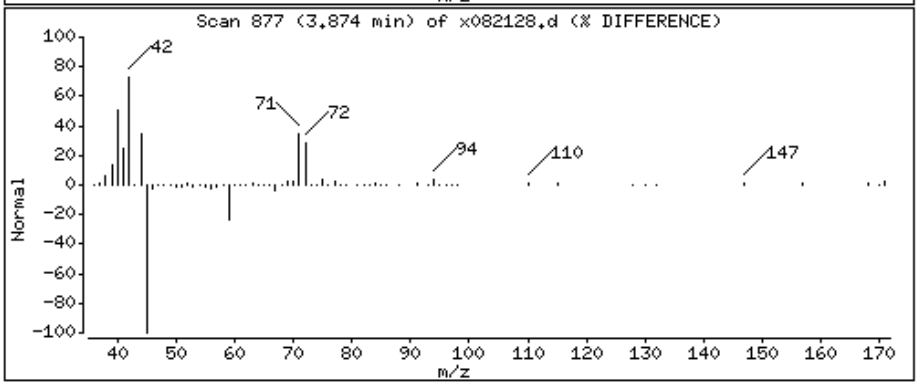












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082128.d Page 3

Date : 21-AUG-2023 18:14

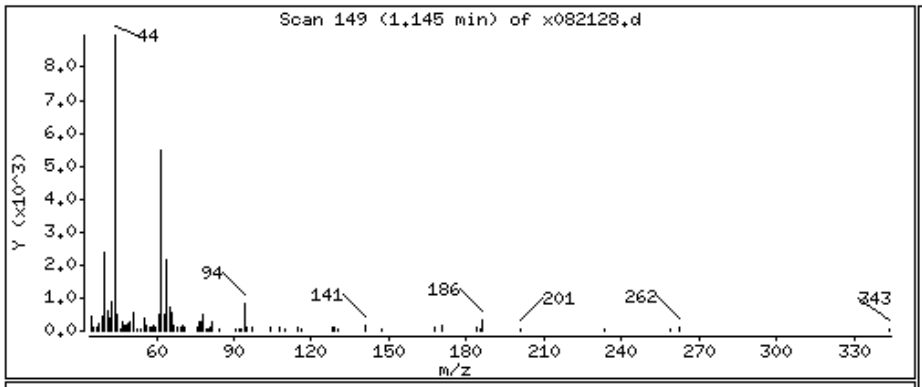
Client ID: HS23081076-01 Instrument: voa6.i

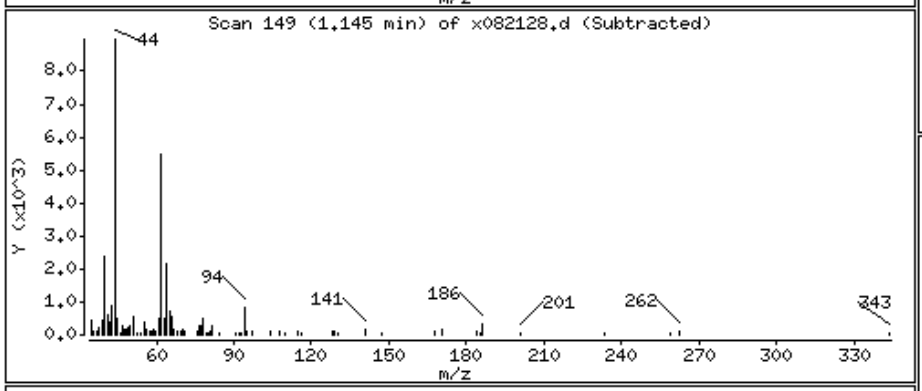
Sample Info: HS23081076-01;HS23081076-01;;;

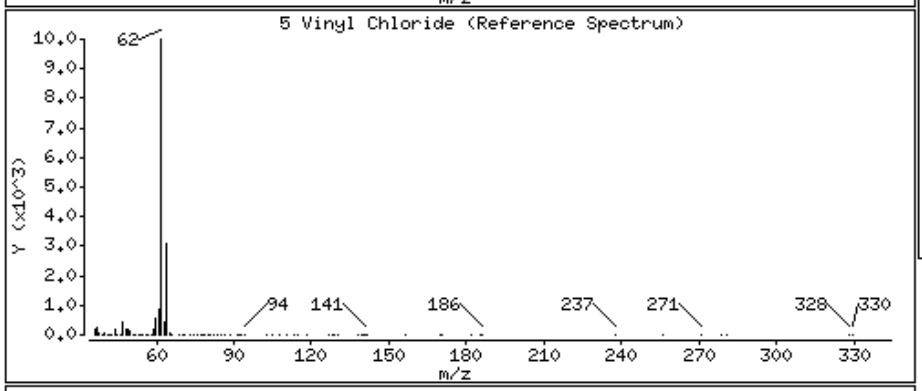
Purge Volume: 5.0 Operator: PC

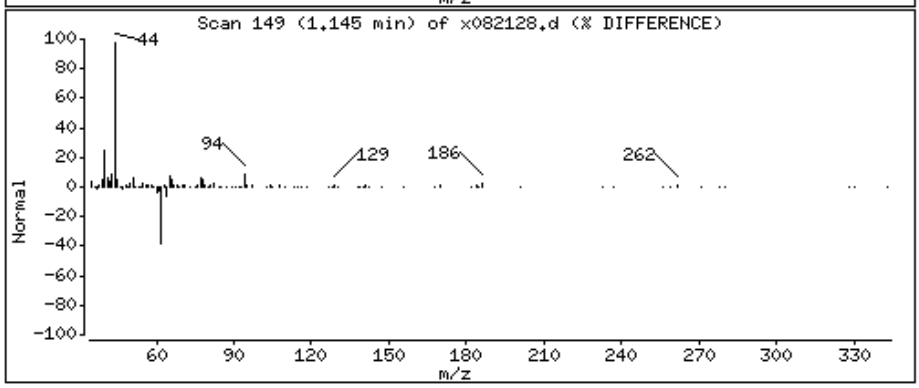
Column phase: DB624 Column diameter: 0.18

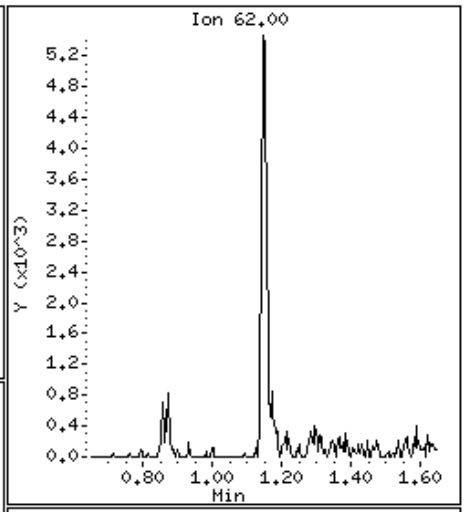
5 Vinyl Chloride Concentration: 0.79 ug/l

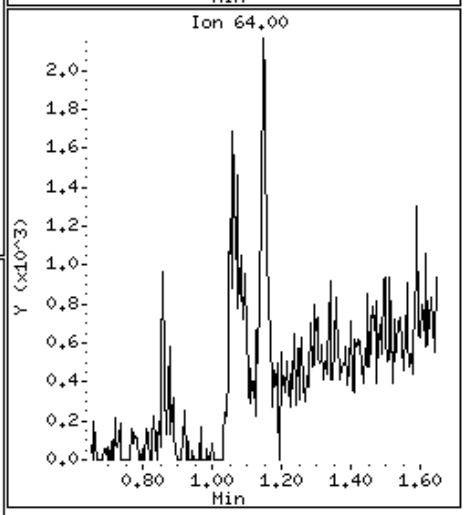












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082128.d Page 4

Date : 21-AUG-2023 18:14

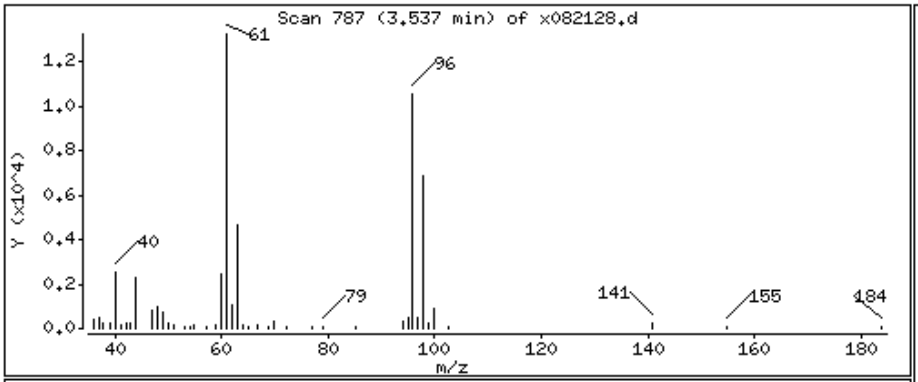
Client ID: HS23081076-01 Instrument: voa6.i

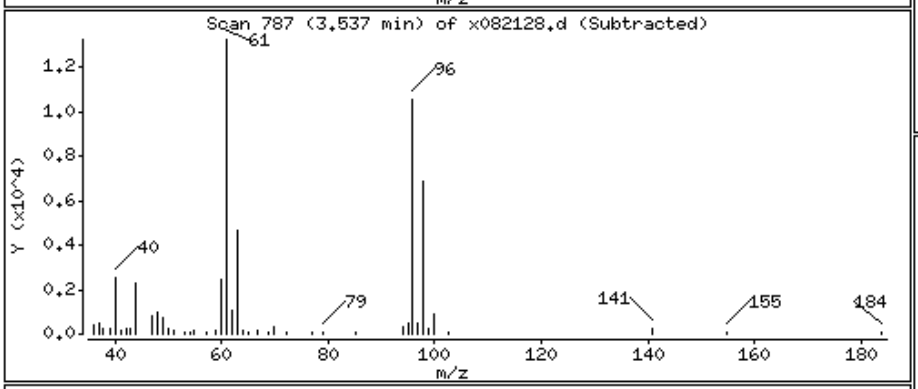
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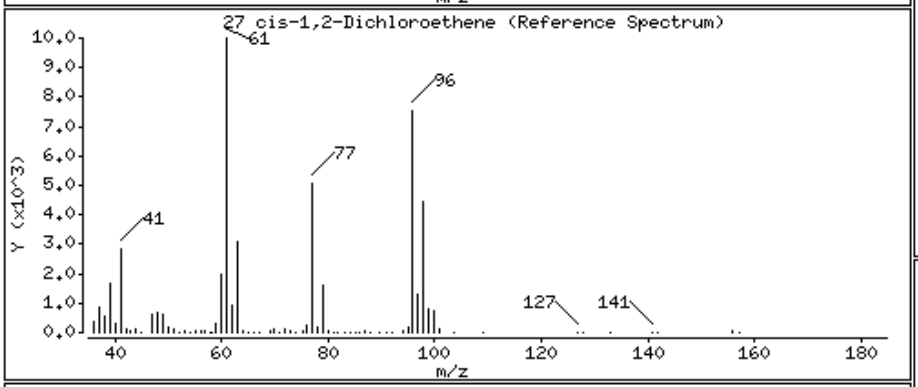
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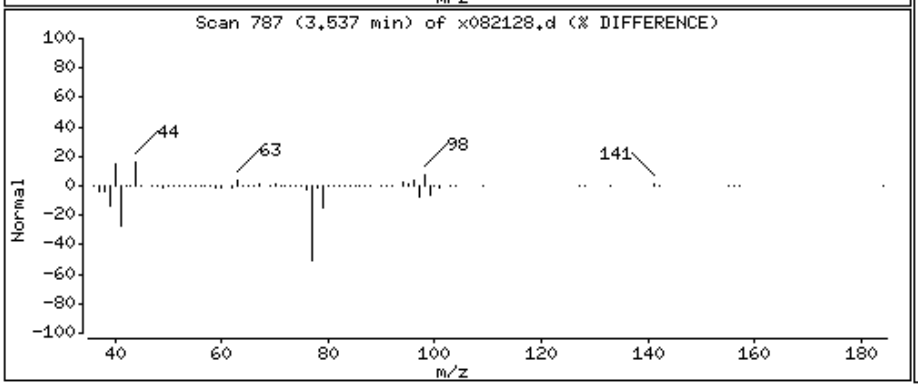
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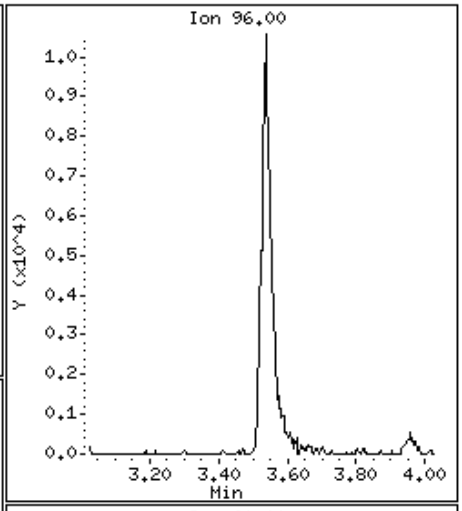
27 cis-1,2-Dichloroethene Concentration: 3.05 ug/l

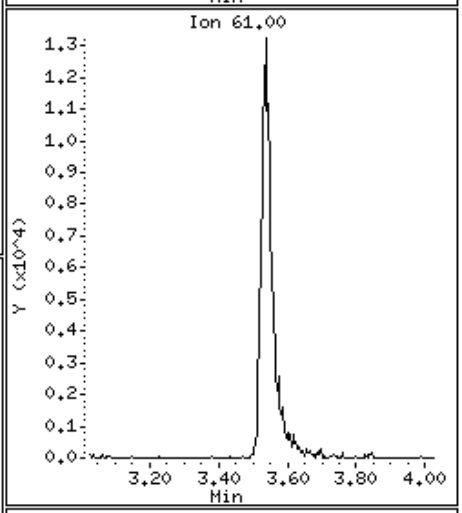


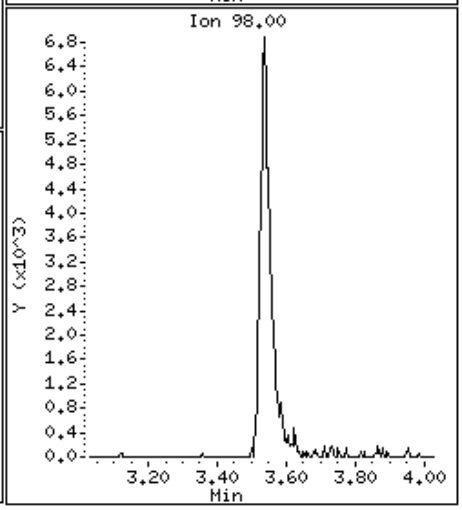












Data File: \\nahstws005\target\chem\voa6.i\x230821.b\x082128.d Page 5

Date : 21-AUG-2023 18:14

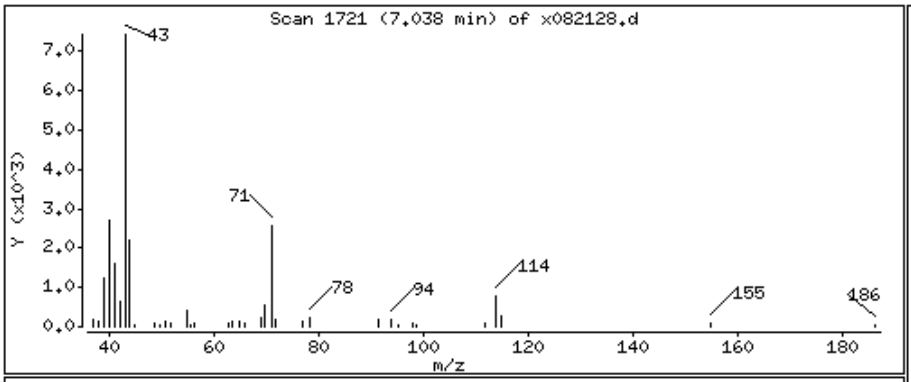
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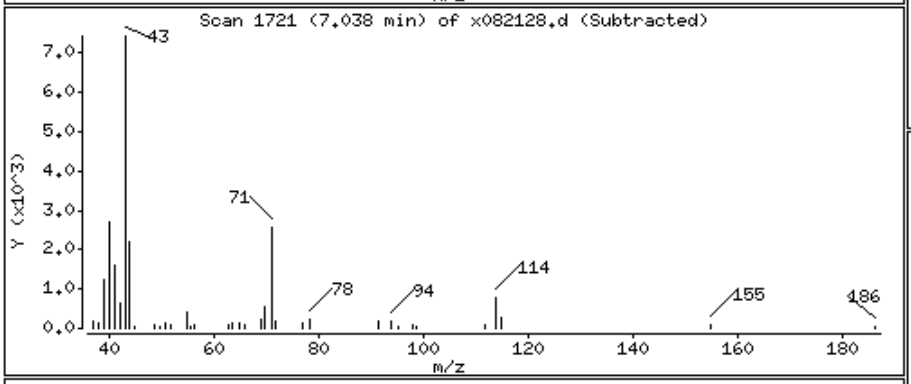
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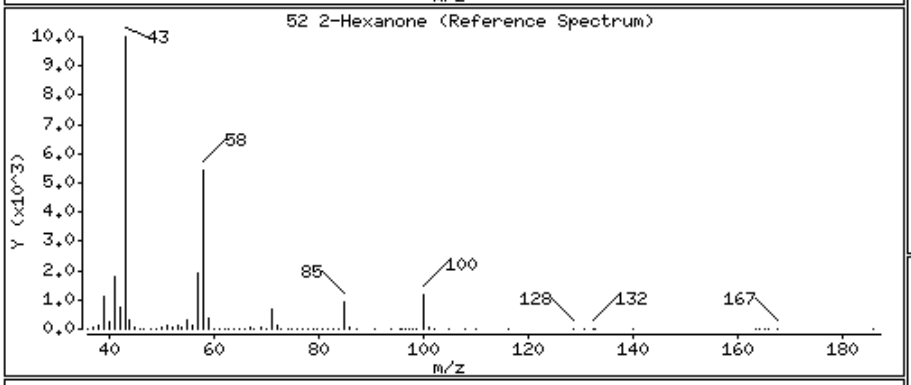
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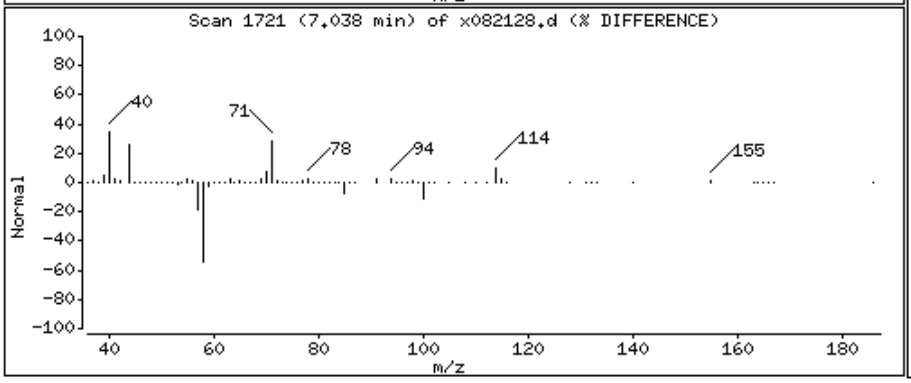
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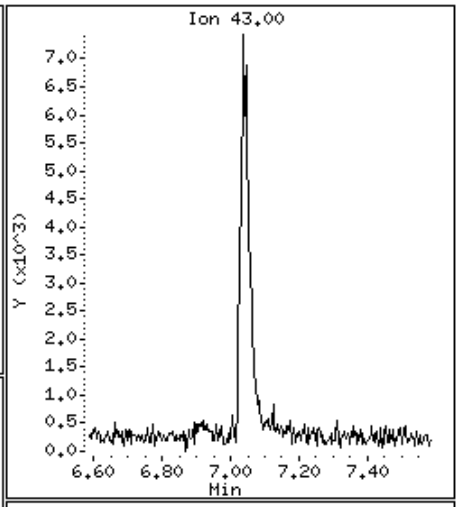
52 2-Hexanone Concentration: 3.31 ug/l

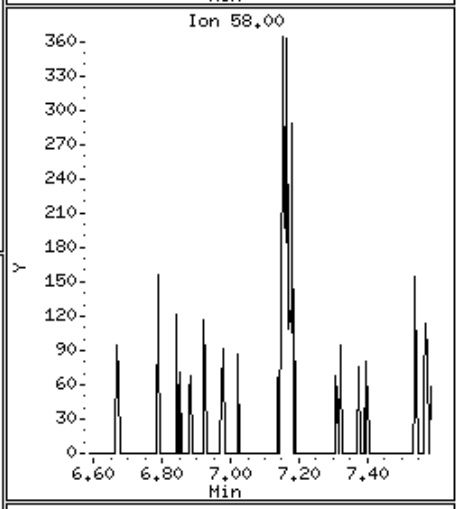


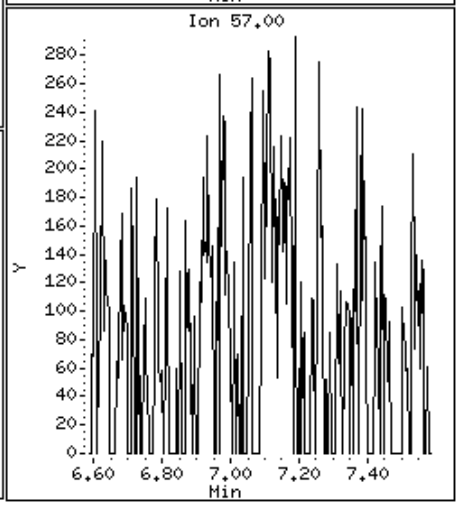












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LabSampID : HS23081076-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082131.D Page 1
Report Date: 22-Aug-2023 09:40

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230821.b\X082131.D
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Inj Date : 21-AUG-2023 19:15
Operator : PC Inst ID: voa6.i
Smp Info : CCV_END;CCV_END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230821.b\8260W.m
Meth Date : 21-Aug-2023 22:09 apoluri Quant Type: ISTD
Cal Date : 11-AUG-2023 13:56 Cal File: X081108.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.181	4.181	(1.000)	650857	50.0000	
135 1,4-Dioxane	88	5.602	5.602	(1.340)	77383	1000.00	935.37
140 1,3-Butadiene	54	1.171	1.171	(0.280)	318774	50.0000	47.53
25 Methacrylonitrile	41	3.829	3.829	(0.916)	305874	50.0000	47.12
12 Isobutyl Alcohol	43	4.680	4.680	(1.119)	945025	1000.00	926.29
13 Acetonitrile	39	2.202	2.202	(0.527)	458125	500.000	456.41
14 Allyl Chloride	41	2.202	2.202	(0.527)	864438	50.0000	43.59
4 Propionitrile	54	3.660	3.660	(0.875)	437607	500.000	482.79
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	114038	50.0000	45.53
194 Acetaldehyde	44	1.216	1.216	(0.291)	99322	200.000	149.21
23 Chloroprene	53	1.775	1.775	(0.424)	133842	50.0000	48.60(M)
130 Ethyl Acetate	43	3.660	3.660	(0.875)	335010	50.0000	44.84
40 Methyl Methacrylate	41	5.606	5.606	(1.341)	279821	50.0000	46.72
49 Ethyl Methacrylate	69	6.787	6.787	(1.367)	465725	50.0000	49.08
131 Methyl Acrylate	55	3.694	3.694	(0.883)	335027	50.0000	52.10
132 n-Butanol	56	5.261	5.261	(1.258)	147268	1000.00	865.13
136 n-Hexane	57	2.772	2.772	(0.663)	396519	50.0000	62.07
139 Diethyl ether	59	1.760	1.760	(0.421)	257043	50.0000	44.74
142 Tetrahydrofuran	42	3.855	3.855	(0.922)	106994	100.000	84.27
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	641277	50.0000	50.53

156 Diisopropyl ether	45	3.004	3.004 (0.719)	1078155	50.0000	45.99
162 Butyl acrylate	55	8.249	8.249 (1.076)	778509	50.0000	48.11

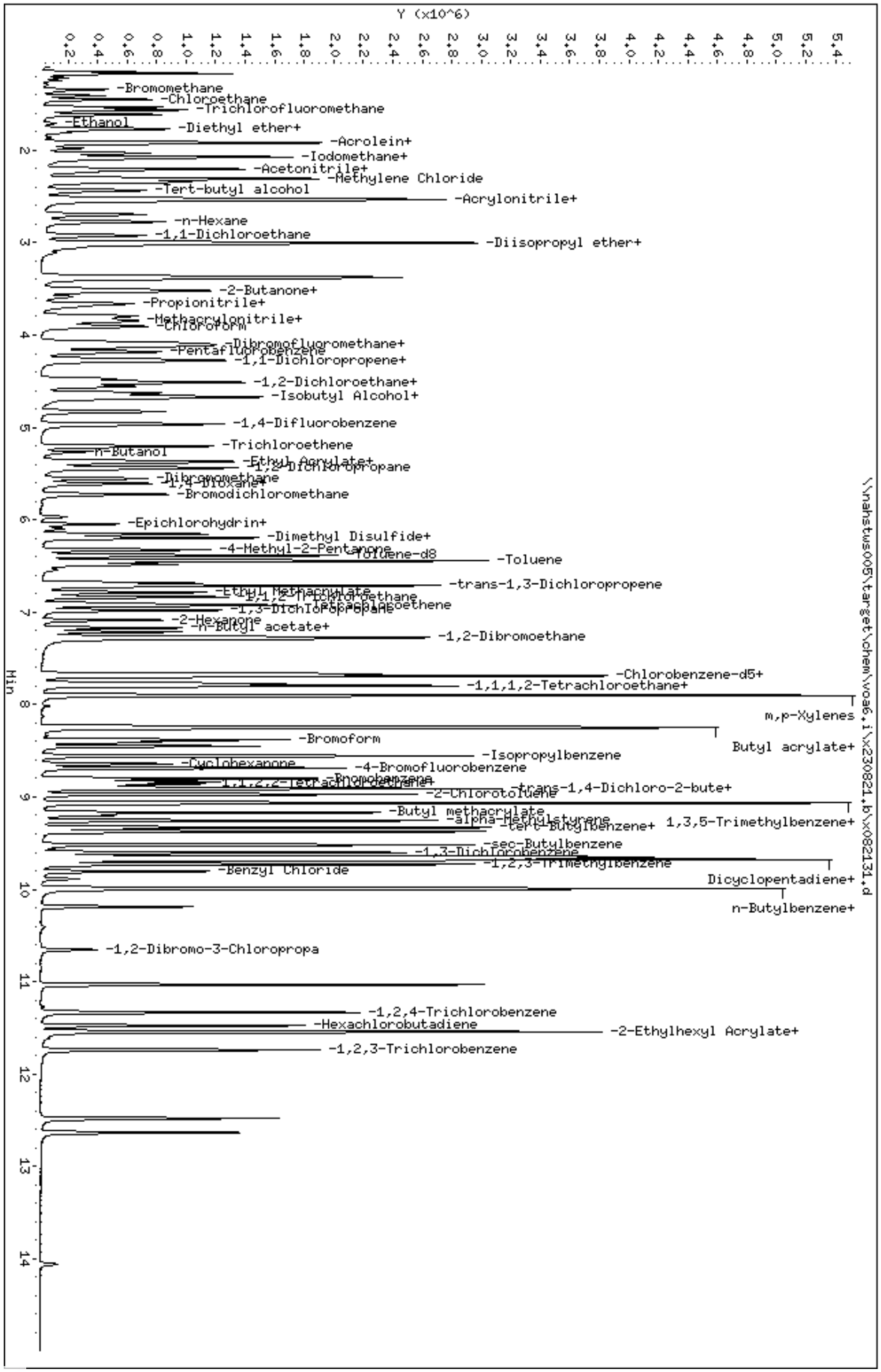
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	167	Ethanol	45	1.707	1.707	(0.408)	75446	1000.00	978.80
	200	Dimethyl Disulfide	94	6.194	6.194	(0.808)	695510	50.0000	53.17
	182	Epichlorohydrin	57	6.093	6.093	(1.227)	104711	200.000	165.30
	164	Dicyclopentadiene	66	9.681	9.681	(1.002)	1656674	50.0000	52.08
	166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1360596	50.0000	49.13
	205	2-Ethylhexyl Acrylate	55	11.547	11.547	(1.196)	667933	50.0000	54.80
	86	Benzyl Chloride	91	9.804	9.804	(1.279)	643716	50.0000	45.27
	134	Cyclohexanone	55	8.642	8.642	(0.895)	296548	1000.00	780.55
	133	Ethyl Acrylate	55	5.381	5.381	(1.287)	811144	50.0000	52.68
	163	Butyl methacrylate	41	9.167	9.167	(0.949)	528756	50.0000	43.72
	188	Isopropyl acetate	43	4.680	4.680	(0.943)	944723	50.0000	45.15
	189	n-Butyl acetate	43	7.210	7.210	(0.940)	540362	50.0000	47.42
	2	Dichlorodifluoromethane	85	0.976	0.976	(0.234)	292045	50.0000	48.95
	3	Chloromethane	50	1.085	1.085	(0.260)	285982	50.0000	45.15
	5	Vinyl Chloride	62	1.149	1.149	(0.275)	388727	50.0000	49.79
	6	Bromomethane	94	1.344	1.344	(0.321)	196951	50.0000	46.86
	7	Chloroethane	64	1.407	1.407	(0.337)	240317	50.0000	46.96
	8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	583221	50.0000	52.49
	9	Acrolein	56	1.861	1.861	(0.445)	33020	100.000	156.27
	10	Acetone	43	1.977	1.977	(0.473)	225462	100.000	89.10
	11	1,1-Dichloroethene	96	1.917	1.917	(0.459)	313639	50.0000	49.90
	15	Iodomethane	142	2.030	2.030	(0.485)	731774	100.000	98.99
	16	Acrylonitrile	53	2.536	2.536	(0.606)	272633	100.000	90.05
	17	Methylene Chloride	84	2.307	2.307	(0.552)	361818	50.0000	45.90
	18	Methyl tert-butyl ether	73	2.539	2.539	(0.607)	1001304	50.0000	44.66
	19	Carbon Disulfide	76	2.075	2.075	(0.496)	1829230	100.000	98.07
	20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	354343	50.0000	48.51
	21	Vinyl Acetate	43	3.000	3.000	(0.718)	1868818	100.000	86.50
	22	1,1-Dichloroethane	63	2.922	2.922	(0.699)	635230	50.0000	46.18
	24	2-Butanone	43	3.585	3.585	(0.857)	230255	100.000	95.57
	26	2,2-Dichloropropane	77	3.510	3.510	(0.840)	436599	50.0000	47.28
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	349430	50.0000	49.82
	28	Chloroform	83	3.908	3.908	(0.935)	593220	50.0000	49.20
	29	Bromochloromethane	128	3.795	3.795	(0.908)	196453	50.0000	49.27
$	30	Dibromofluoromethane	113	4.103	4.103	(0.981)	323229	50.0000	54.21
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	506866	50.0000	52.37
	32	1,1-Dichloropropene	75	4.282	4.282	(0.863)	427144	50.0000	52.41
	33	1,2-Dichloroethane	62	4.556	4.556	(0.918)	457667	50.0000	46.48
	34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	442891	50.0000	51.48
$	35	1,2-Dichloroethane-d4	65	4.474	4.474	(1.070)	345451	50.0000	52.00
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	1035720	50.0000	
	37	Benzene	78	4.511	4.511	(0.909)	1255127	50.0000	49.19
	38	Trichloroethene	130	5.205	5.205	(1.048)	377861	50.0000	51.53
	39	Bromodichloromethane	83	5.726	5.726	(1.153)	449594	50.0000	47.32
	41	2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	214742	100.000	88.34
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	340598	50.0000	47.34
	44	Dibromomethane	93	5.550	5.550	(1.118)	230733	50.0000	46.93
	45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	643918	100.000	90.36
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	516198	50.0000	47.47
*	47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	993347	50.0000	
$	48	Toluene-d8	98	6.385	6.385	(0.833)	1139788	50.0000	48.75
	50	Toluene	91	6.445	6.445	(0.841)	1372744	50.0000	49.59

51	trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)	432998	50.0000	47.45
52	2-Hexanone	43	7.086	7.086 (0.924)	444278	100.000	92.88

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	271002	50.0000	49.11
54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	546467	50.0000	48.45
55	Dibromochloromethane	129	7.173	7.173	(0.935)	402250	50.0000	50.51
56	Tetrachloroethene	164	6.925	6.925	(0.903)	312153	50.0000	54.25
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	330383	50.0000	49.01
58	1-Chlorohexane	55	7.694	7.694	(1.550)	317306	50.0000	52.95
59	Chlorobenzene	112	7.690	7.690	(1.003)	939248	50.0000	49.24
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	372475	50.0000	50.55
61	Ethylbenzene	106	7.795	7.795	(1.017)	489911	50.0000	52.01
62	m,p-Xylenes	106	7.900	7.900	(1.030)	1254886	100.000	104.15
63	o-Xylene	106	8.237	8.237	(1.074)	601201	50.0000	50.63
64	Styrene	104	8.256	8.256	(1.077)	1035460	50.0000	52.44
66	Bromoform	173	8.406	8.406	(1.096)	279399	50.0000	52.00
67	Isopropylbenzene	105	8.560	8.560	(1.116)	1586091	50.0000	53.75
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	442947	50.0000	45.61
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	506610	50.0000	51.65
* 70	1,4-Dichlorobenzene-d4	152	9.658	9.658	(1.000)	596601	50.0000	
71	1,2,3-Trichloropropane	75	8.860	8.860	(0.917)	470792	50.0000	65.92
73	n-Propylbenzene	91	8.908	8.908	(0.922)	1887202	50.0000	53.49
74	Bromobenzene	156	8.803	8.803	(0.912)	466798	50.0000	48.95
75	1,3,5-Trimethylbenzene	105	9.062	9.062	(0.938)	1328926	50.0000	51.53
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	1108386	50.0000	49.06
77	4-Chlorotoluene	91	9.066	9.066	(0.939)	1297054	50.0000	49.90
78	tert-Butylbenzene	119	9.332	9.332	(0.966)	1190431	50.0000	53.88
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1347130	50.0000	50.72
81	sec-Butylbenzene	105	9.519	9.519	(0.986)	1661926	50.0000	54.87
82	p-Isopropyltoluene	119	9.647	9.647	(0.999)	1462630	50.0000	53.40
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	848642	50.0000	49.97
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	890808	50.0000	48.97
87	n-Butylbenzene	91	9.992	9.992	(1.035)	1310197	50.0000	49.17
88	1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	833658	50.0000	48.63
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.103)	78901	50.0000	48.04
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	589573	50.0000	51.97
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	276017	50.0000	62.70
92	Naphthalene	128	11.540	11.540	(1.195)	1339225	50.0000	47.29
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	537720	50.0000	48.64
M 94	1,2-Dichloroethylene (total)	96				703773	100.000	98.34
M 95	Xylenes (total)	106				1856087	150.000	154.78
141	Cyclohexane	56	4.121	4.121	(0.986)	474251	50.0000	54.29
138	Freon TF	101	1.921	1.921	(0.459)	332349	50.0000	54.15
147	Methylcyclohexane	55	5.381	5.381	(1.084)	811144	50.0000	52.13
146	Methyl Acetate	43	2.232	2.232	(0.534)	267121	50.0000	45.67
148	Tert-Butyl alcohol	59	2.434	2.434	(0.582)	746833	1000.00	951.25
149	Isopropyl Alcohol	45	2.097	2.097	(0.502)	430271	1000.00	941.02

QC Flag Legend

M - Compound response manually integrated.



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Client ID: CCV_END
Sample Info: CCV_END;CCV_END;2;;
Purge Volume: 5.0
Column phase: DB624

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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

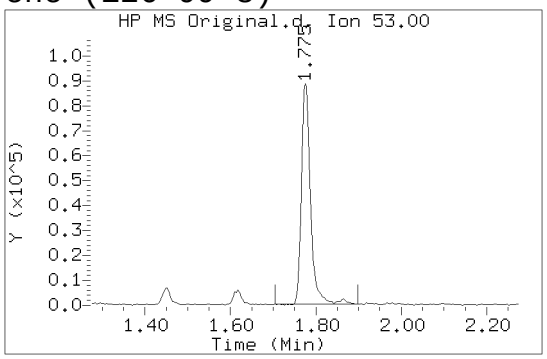
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Inj Date : 21-AUG-2023 19:15
InstruID : voa6.i
LabSampID : CCV_END

Chloroprene (126-99-8)

Reason Code:

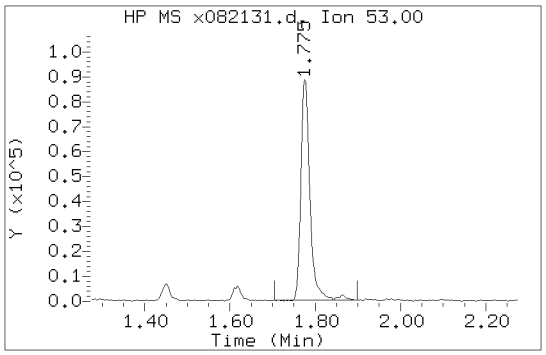
BEFORE

MASS
53
AREA
133842
HEIGHT
88284
22-Aug-2023
09:45



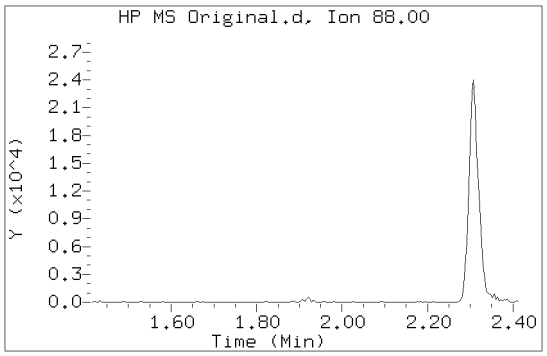
AFTER

MASS
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AREA
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88284
22-Aug-2023
09:45



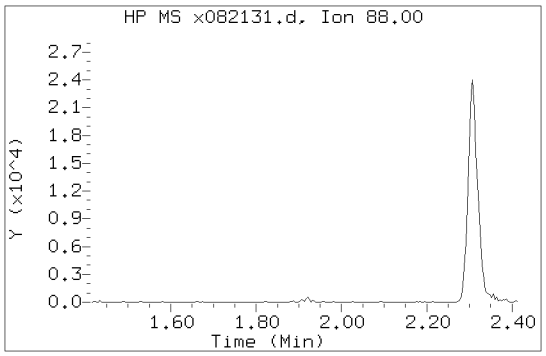
BEFORE

MASS
88
AREA
0
HEIGHT
0
22-Aug-2023
09:45



AFTER

MASS
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22-Aug-2023
09:45



HS23081076-MSSEMI-SW8270SIM

ALS WO# HS23081076

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Form 1

Organic Analysis Data Sheet

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	**HS23081076**	

Semi-Volatiles by Semivolatiles SIM

HS23081076-01	Collected	Received	Matrix	Basis
LH18/24-SP650_081623	08/16/23 13:00	08/17/23 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	1.2		0.050	0.050	0.050	5	08/28/23 18:05	SV-6_444955	23.D	199190

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	**HS23081076**	

Semi-Volatiles by Semivolatiles SIM

MBLK-199190	Collected	Received	Matrix	Basis
MBLK-199190	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.030	U	0.010	0.030	0.030	1	08/28/23 15:23	SV-6_444955	14.D	199190

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

ALS Environmental–Houston Laboratory
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Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.

Project: Groundwater Treatment Plant Quarterly Effluent Samples

Workorder: HS23081076

RunID: SV-6-444955

Semi-Volatiles by Semivolatiles SIM

HS23081076-01	Analyzed	Conc Units	Dilution
LH18/24-SP650_081623	08/28/23	%REC	5

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.11	0.08	132		40-140
4-Terphenyl-d14	0.093	0.08	116		40-140
Nitrobenzene-d5	0.073	0.08	91.4		40-140

LCS1-199190	Analyzed	Conc Units	Dilution
LCS1-199190	08/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.08498	0.08	106		40-140
4-Terphenyl-d14	0.08771	0.08	110		40-140
Nitrobenzene-d5	0.09846	0.08	123		40-140

LCSD1-199190	Analyzed	Conc Units	Dilution
LCSD1-199190	08/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.1042	0.08	130		40-140
4-Terphenyl-d14	0.08064	0.08	101		40-140
Nitrobenzene-d5	0.09881	0.08	124		40-140

MBLK-199190	Analyzed	Conc Units	Dilution
MBLK-199190	08/28/23	%REC	1

Surrogate	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	0.07044	0.08	88.1		40-140
4-Terphenyl-d14	0.08868	0.08	111		40-140
Nitrobenzene-d5	0.06631	0.08	82.9		40-140

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Form 3B

Laboratory Control Sample Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

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Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

SAMPLENUM LCS1-199190

Semi-Volatiles by Semivolatiles SIM

SV-6_444955				LCS1-199190			LCSD1-199190					
Spike Matrix	Aqueous		Run Date	08/28/23			08/28/23					
Result Units	ug/L		Run Time	15:41			15:59					
Prep Method	Prep Batch	Prep Date	Data File	15.D			16.D					
SW3510	08/18/23	199190	Prep Amt	1000 mL			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	0.05953	74			0.06571	82		20	9.87	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 4

Method Blank Summary

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

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Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	**HS23081076**	

Semi-Volatiles by Semivolatiles SIM

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-199190	14.D	08/28/23 15:23	SV-6_444955
LCS1-199190	LCS	LCS1-199190	15.D	08/28/23 15:41	SV-6_444955
LCSD1-199190	LCSD	LCSD1-199190	16.D	08/28/23 15:59	SV-6_444955
LH18/24-SP650_081623	SAMP	HS23081076-01	23.D	08/28/23 18:05	SV-6_444955

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Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

ALS Environmental–Houston Laboratory
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Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

RunID SV-6-439923

Semi-Volatiles by Semivolatiles SIM

Tune File 01.D 06/16/23 6/16/2023

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	40.3 (40.3)
68	Less than 2.0% of mass 69	0.5 (1.44) 1
69	Mass 69 RA	32.2 (32.2)
70	Less than 2.0% of mass 69	0.2 (0.502) 1
127	25.0 - 75.0% of mass 198	38.5 (38.5)
197	Less than 1.0% of mass 198	0.5 (0.46)
198	Base peak, 100% RA	100 (83.3)
199	5.0 - 9.0% of mass 198	6.5 (6.46)
275	10.0 - 30.0% of mass 198	25.8 (25.8)
365	Greater than 0.75% of mass 198	3.4 (3.43)
441	Present, but less than mass 443	17.7 (76.4)
442	40.0 - 110.0% of mass 198	120.1 (120)
443	15.0 - 24.0% of mass 442	23.2 (19.3) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	14DXICAL-	ICAL1	6/16/2023	04	14DXICAL-0.01
2	14DXICAL-	ICAL2	6/16/2023	05	14DXICAL-0.03
3	14DXICAL-	ICAL3	6/16/2023	06	14DXICAL-0.05
4	14DXICAL-	ICAL4	6/16/2023	07	14DXICAL-0.08
5	14DXICAL-	ICAL6	6/16/2023	09	14DXICAL-0.15
6	14DXICAL-0.1	ICAL5	6/16/2023	12	14DXICAL-0.1
7	14DXICAL-0.5	ICAL8	6/16/2023	14	14DXICAL-0.5
8	14DXICAL-0.2	ICAL7	6/16/2023	15	14DXICAL-0.2
9	14DXICV-0.08	ICV	6/16/2023	16	14DXICV-0.08

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

RunID SV-6-444955

Semi-Volatiles by Semivolatiles SIM

Tune File 01.D 08/28/23 8/28/2023

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	49.1 (49.12)
68	Less than 2.0% of mass 69	0.6 (1.47) 1
69	Mass 69 RA	39.9 (39.91)
70	Less than 2.0% of mass 69	0.2 (0.48) 1
127	25.0 - 75.0% of mass 198	50.5 (50.52)
197	Less than 1.0% of mass 198	0.5 (0.54)
198	Base peak, 100% RA	100 (100)
199	5.0 - 9.0% of mass 198	6.8 (6.79)
275	10.0 - 30.0% of mass 198	25 (24.97)
365	Greater than 0.75% of mass 198	3.4 (3.4)
441	Present, but less than mass 443	12.8 (75.79)
442	40.0 - 110.0% of mass 198	86.9 (86.92)
443	15.0 - 24.0% of mass 442	16.8 (19.36) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	1 4DX-0.08	CCV	8/28/2023	03	1 4DX-0.08
2	MBLK-199190	MBLK	8/28/2023	05	MBLK-199190
3	LCS-199190	LCS	8/28/2023	06	LCS-199190
4	LCSD-199190	LCSD	8/28/2023	07	LCSD-199190
5	MBLK-199190	MBLK	8/28/2023	14	MBLK-199190
6	LCS1-199190	LCS	8/28/2023	15	LCS1-199190
7	LCSD1-	LCSD	8/28/2023	16	LCSD1-199190
8	HS23081076-	SAMP	8/28/2023	22	LH18/24-SP650_081623
9	HS23081076-	SAMP	8/28/2023	23	LH18/24-SP650_081623
10	1 4DX-CCV	CCV	8/28/2023	24	1 4DX-CCV END

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Form 6

Initial Calibration Data

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID SV-6_439923

Semi-Volatiles by Semivolatiles SIM

ICAL Start Date 10-MAR-2022 1025
ICAL End Date 16-JUN-2023 1556

Calibration Files

Level 1 ..target\chem\sv6.i\230616.b\04.d
Level 2 ..target\chem\sv6.i\230616.b\05.d
Level 3 ..target\chem\sv6.i\230616.b\06.d
Level 4 ..target\chem\sv6.i\230616.b\07.d
Level 5 ..target\chem\sv6.i\230616.b\12.d
Level 6 ..target\chem\sv6.i\230616.b\09.d
Level 7 ..target\chem\sv6.i\230616.b\15.d
Level 8 ..target\chem\sv6.i\230616.b\14.d

Compound	0.20000 Level 7 0.01000 Level 1	0.50000 Level 8 0.03000 Level 2	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	RRF	%RSD	Q
1,4-Dioxane	0.30124 0.40150	0.32659 0.31193	0.32643	0.34940	0.35892	0.33837	0.33930	9.241	
2-Fluorophenol	0.40150 NE NE	0.31193 NE NE	NE	NE	NE	NE	0.33930 NE	9.241 NE	
13 Phenol-d6	NE NE	NE NE	NE	NE	NE	NE	NE	NE	
33 Nitrobenzene-d5	0.28832 0.34832	0.28035 0.27609	0.30204	0.32108	0.30808	0.30634	0.30383	7.735	
69 2-Fluorobiphenyl	0.98985 1.25227	0.97067 0.94386	0.97876	1.06873	0.97017	1.00640	1.02259	9.764	
105 2,4,6-Tribromophenol	NE NE	NE NE	NE	NE	NE	NE	NE	NE	
158 4-Terphenyl-d14	0.60104 1.00267	0.68127 0.75942	0.64541	0.74244	0.75380	0.71602	0.73776	16.347	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

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Initial Calibration Verification (ICV)

Client	Bhate Environmental Associates, Inc.	**Workorder**	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	**HS23081076**	

RunID

SV-6_439923

Semi-Volatiles by Semivolatiles SIM

Sample Matrix	LIQUID	**Fraction**	SV
Lab Smp Id	14DXICV-0.08	**Client Smp ID**	14DXICV-0.08
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	16.D	**Inj Date**	16-JUN-2023 16:22

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.08000	0.07070	88.38	40-140	
Nitrobenzene-d5	0.08000	0.07086	88.57	40-140	
2-Fluorobiphenyl	0.08000	0.08036	100.45	40-140	
4-Terphenyl-d14	0.08000	0.08379	104.74	40-140	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

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Continuing Calibration Verification (CCV)

Client	Bhate Environmental Associates, Inc.	**Workorder**	
Project	Groundwater Treatment Plant Quarterly Effluent Samples	**HS23081076**	

RunID

Semi-Volatiles by Semivolatiles SIM

SV-6_444955

Instrument ID	SV6.i	**Injection Date**	28-AUG-2023 1134
Lab File ID	03.D	**ICAL Date(s)**	10-MAR-2022, 16-JUN-2023
Analysis Type	WATER	**ICAL Times**	10:25, 15:56
Lab Sample ID	1 4DX-0.08	**Quant Type**	ISTD

Compound	$\overline{RRF}$ / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.30383	0.28332	0.010	-6.74999	20.0	Averaged	
69 2-Fluorobiphenyl	1.02259	1.00494	0.010	-1.72628	20.0	Averaged	
158 4-Terphenyl-d14	0.73776	0.68855	0.010	-6.66999	20.0	Averaged	
1,4-Dioxane	0.33930	0.31289	0.010	-7.78456	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23081076

RunID SV-6_444955

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 24.D
Analysis Type WATER
Lab Sample ID 1 4DX-CCV END

Injection Date 28-AUG-2023 1823
ICAL Date(s) 10-MAR-2022, 16-JUN-2023
ICAL Times 10:25, 15:56
Quant Type ISTD

Compound	$\overline{RRF}$ / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.30383	0.26818	0.010	-11.73267	20.0	Averaged	
69 2-Fluorobiphenyl	1.02259	0.96690	0.010	-5.44588	20.0	Averaged	
158 4-Terphenyl-d14	0.73776	0.80292	0.010	8.83249	20.0	Averaged	
1,4-Dioxane	0.33930	0.30736	0.010	-9.41341	20.0	Averaged	

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Form 12

Preparation Log

Semi-VolatilesEPA 3510

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

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Form 12 - Preparation Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

RunID 199190

Semi-VolatilesEPA 3510

Prep Batch 199190 **Prep Date** 08/18/23

	Matrix	Type	Client Sample ID	Lab Sample ID	Initial Amt (mL)	Final Amt (mL)
1	Aqueous	MBLK	MBLK-199190	MBLK-199190	1000	1
2	Aqueous	LCS	LCS1-199190	LCS1-199190	1000	1
3	Aqueous	LCSD	LCSD1-199190	LCSD1-199190	1000	1
4	Water	SAMP	LH18/24-SP650_081623	HS23081076-01	1000	1

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Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

RunID SV-6-439923

Semi-Volatiles by Semivolatiles SIM

Run ID SV-6_439923 **Start Date** 06/16/23 **EndDate** 06/16/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:28	DFTPP	TUNE	DFTPP	01.D	06/16/23	1
11:08	14DXICAL-0.01	ICAL1	14DXICAL-0.01	04.D	06/16/23	1
11:26	14DXICAL-0.03	ICAL2	14DXICAL-0.03	05.D	06/16/23	1
11:44	14DXICAL-0.05	ICAL3	14DXICAL-0.05	06.D	06/16/23	1
12:02	14DXICAL-0.08	ICAL4	14DXICAL-0.08	07.D	06/16/23	1
12:38	14DXICAL-0.15	ICAL6	14DXICAL-0.15	09.D	06/16/23	1
14:15	14DXICAL-0.1	ICAL5	14DXICAL-0.1	12.D	06/16/23	1
14:51	14DXICAL-0.5	ICAL8	14DXICAL-0.5	14.D	06/16/23	1
15:56	14DXICAL-0.2	ICAL7	14DXICAL-0.2	15.D	06/16/23	1
16:22	14DXICV-0.08	ICV	14DXICV-0.08	16.D	06/16/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23081076**

RunID SV-6-444955

Semi-Volatiles by Semivolatiles SIM

Run ID SV-6_444955 **Start Date** 08/28/23 **EndDate** 08/28/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:46	DFTPP	TUNE	DFTPP	01.D	08/28/23	1
11:34	1 4DX-0.08	CCV	1 4DX-0.08	03.D	08/28/23	1
12:29	MBLK-199190	MBLK	MBLK-199190	05.D	08/28/23	1
12:50	LCS-199190	LCS	LCS-199190	06.D	08/28/23	1
13:10	LCSD-199190	LCSD	LCSD-199190	07.D	08/28/23	1
13:30	HS23081084-03	SAMP	ZZZZZZZZZZ	08.D	08/28/23	1
13:50	HS23081087-03	SAMP	ZZZZZZZZZZ	09.D	08/28/23	1
14:11	HS23080787-01	SAMP	ZZZZZZZZZZ	10.D	08/28/23	1
14:29	HS23080787-02	SAMP	ZZZZZZZZZZ	11.D	08/28/23	1
14:47	HS23080787-03	SAMP	ZZZZZZZZZZ	12.D	08/28/23	1
15:05	HS23080787-04	SAMP	ZZZZZZZZZZ	13.D	08/28/23	1
15:23	MBLK-199190	MBLK	MBLK-199190	14.D	08/28/23	1
15:41	LCS1-199190	LCS	LCS1-199190	15.D	08/28/23	1
15:59	LCSD1-199190	LCSD	LCSD1-199190	16.D	08/28/23	1
17:11	HS23081040-01	SAMP	ZZZZZZZZZZ	20.D	08/28/23	1
17:29	HS23081040-01	SAMP	ZZZZZZZZZZ	21.D	08/28/23	10
17:47	HS23081076-01	SAMP	LH18/24-	22.D	08/28/23	1
18:05	HS23081076-01	SAMP	LH18/24-	23.D	08/28/23	5
18:23	1 4DX-CCV END	CCV	1 4DX-CCV END	24.D	08/28/23	1

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Raw Data SV 6 439923

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Data File: \\nahstws005\Target\chem\SV6.i\230616.b\01.D Page 1
Report Date: 16-Jun-2023 09:41

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230616.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 16-JUN-2023 09:28
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230616.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7015

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		
5.009	6.357	-1.348	198	573312			0.00- 100.00	83.28
5.009	6.357	-1.348	51	231176			10.00- 80.00	40.32
5.009	6.357	-1.348	68	2654			0.00- 2.00	1.44
5.009	6.357	-1.348	69	184729			0.00- 0.00	32.22
5.009	6.357	-1.348	70	927			0.00- 2.00	0.50
5.009	6.357	-1.348	127	220864			10.00- 80.00	38.52
5.009	6.357	-1.348	197	2637			0.00- 2.00	0.46
5.009	6.357	-1.348	199	37040			5.00- 9.00	6.46
5.009	6.357	-1.348	275	147776			10.00- 60.00	25.78
5.009	6.357	-1.348	365	19688			1.00- 100.00	3.43
5.009	6.357	-1.348	441	101568			0.01- 99.99	76.45
5.009	6.357	-1.348	442	688448			50.00- 150.00	120.08
5.009	6.357	-1.348	443	132864			15.00- 24.00	19.30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	40.32
68	Less than 2.00% of mass 69	0.46 (1.44)
69	Mass 69 relative abundance	32.22
70	Less than 2.00% of mass 69	0.16 (0.50)
127	10.00 - 80.00% of mass 198	38.52
197	Less than 2.00% of mass 198	0.46
199	5.00 - 9.00% of mass 198	6.46
275	10.00 - 60.00% of mass 198	25.78
365	1.00 - 100.00% of mass 198	3.43
441	Present, but less than mass 443	17.72
442	50.00 - 150.00% of mass 198	120.08
443	15.00 - 24.00% of mass 442	23.17 (19.30)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 453: 5.010 min. (SUB)
Location of Maximum: 442.10
Number of points: 316

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	691	128.10	16159	209.00	1513	297.00	5492
38.00	1909	129.00	84336	210.10	2201	298.00	365
39.10	12523	130.00	6769	211.00	6102	301.00	640
40.00	181	131.00	1444	213.00	401	302.00	602
40.90	276	132.10	794	214.00	192	303.10	4693
45.00	312	133.10	248	215.00	1503	304.00	1179
49.00	1051	134.00	2156	216.00	2932	304.90	175
50.10	53200	135.00	6519	217.00	39448	308.00	557
51.10	231168	136.00	2427	218.00	4584	309.00	385
52.10	12049	137.10	3257	219.00	408	310.00	461
53.00	444	138.10	689	221.10	31488	311.10	249
55.00	841	139.00	436	221.70	5812	311.90	184
56.00	6699	140.00	864	223.00	9377	312.90	383
57.00	16176	141.00	10733	224.10	87680	314.00	1739
58.00	734	142.00	3754	225.10	21984	315.00	3954
61.00	2603	143.00	2343	226.00	2230	316.10	2781
62.00	2746	144.00	787	227.00	33024	317.00	633
63.00	8959	145.00	657	228.00	4457	319.90	232
64.00	1134	146.10	1823	229.00	7608	321.00	1268
65.10	3754	147.00	5380	230.00	950	322.00	605
66.20	170	148.00	12478	231.00	3201	323.10	14516
66.90	176	149.00	2115	232.00	487	324.00	2985
68.00	2654	150.00	633	233.00	674	325.00	302
69.00	184704	151.60	2531	234.00	1838	326.00	247
70.00	927	152.00	808	235.00	2392	327.00	2521
71.10	180	153.00	3358	236.00	1374	328.00	1205
73.00	1217	154.00	2616	237.00	2292	329.00	338
74.00	17520	155.00	6177	238.00	338	332.00	1141
75.00	28192	156.10	9411	239.00	1122	333.00	1368
76.10	9960	157.00	2001	240.00	936	334.10	8776
77.10	218880	158.00	2113	241.00	1871	335.00	2203
78.10	13466	159.00	1675	242.00	4359	336.00	187
79.00	12046	160.10	3244	243.10	4502	339.10	380
80.00	9791	161.00	5606	244.10	67632	339.90	281
81.00	14216	162.00	1730	245.10	8922	341.00	1623
82.00	3653	163.00	400	246.00	11263	342.10	476
83.00	3381	164.00	727	247.00	2407	346.00	2738
84.00	184	165.00	4330	248.10	663	347.00	596
85.00	2227	166.00	3419	249.00	2399	350.90	220
86.00	3237	167.00	24512	250.00	534	352.10	4359
87.00	1991	168.00	9507	251.00	626	353.00	3284
88.00	676	169.10	1791	252.00	592	354.10	4838
89.00	341	170.00	842	253.00	1532	355.00	896
91.00	2912	170.90	1000	254.00	2136	359.00	467
92.00	3110	172.00	2269	255.00	354304	365.00	19688

93.00	21304	173.10	2549	256.00	51136	366.00	2752
94.00	1218	174.00	5175	257.00	3611	370.10	513
95.00	484	175.00	9799	258.00	18768	371.00	1054
96.00	924	176.00	2683	259.00	3038	372.00	8081
97.10	374	177.00	3904	260.00	415	373.10	1766
98.00	16345	178.00	1303	261.00	547	374.00	321
99.00	11441	179.00	17472	263.00	216	377.00	254
100.00	1118	180.00	12918	264.00	482	383.00	2280
101.00	8931	181.00	6121	265.00	7562	384.00	529
101.90	481	182.10	939	266.00	1247	385.00	199
103.00	2466	183.00	711	267.90	202	390.10	1132
104.00	4787	184.00	1198	270.00	419	391.00	640
105.00	4856	185.10	9374	270.90	595	392.00	528
106.00	1473	186.10	74288	272.00	859	401.00	506
107.00	67952	187.10	20504	273.00	9955	402.00	3420
108.00	9807	188.00	2068	274.00	26688	403.00	5432
109.00	1838	189.00	3837	275.00	147776	404.00	1627
110.00	123544	189.90	682	276.10	18968	405.00	236
111.00	17696	191.00	2262	277.00	11809	415.00	201
112.00	1819	192.00	6230	278.00	1774	421.00	5131
112.90	638	193.10	7049	279.00	482	422.00	3941
114.00	179	194.00	1444	280.90	159	423.00	33192
114.80	238	195.00	1036	282.00	357	424.00	5796
116.00	3334	196.10	15513	283.00	1383	425.00	632
117.00	50184	197.00	2637	284.00	975	434.00	155
118.10	3139	198.00	573312	285.00	2248	436.70	155
119.00	504	199.00	37040	286.10	556	441.10	101568
120.00	697	200.00	3218	289.00	393	442.10	688448
121.00	285	201.50	2802	290.00	552	443.10	132864
122.00	4036	203.00	3916	291.00	367	444.10	12072
123.10	5628	204.00	19400	291.90	558	445.00	733
124.00	2843	205.10	32656	293.00	2916		
125.00	2735	206.10	146944	294.00	680		
126.10	975	207.10	18016	295.00	908		
127.00	220864	208.10	4201	296.00	40008		

Data File: \\nahstws005\target\chem\sv6.i\230616.b\01.d

Date : 16-JUN-2023 09:28

Client ID: DFTPP

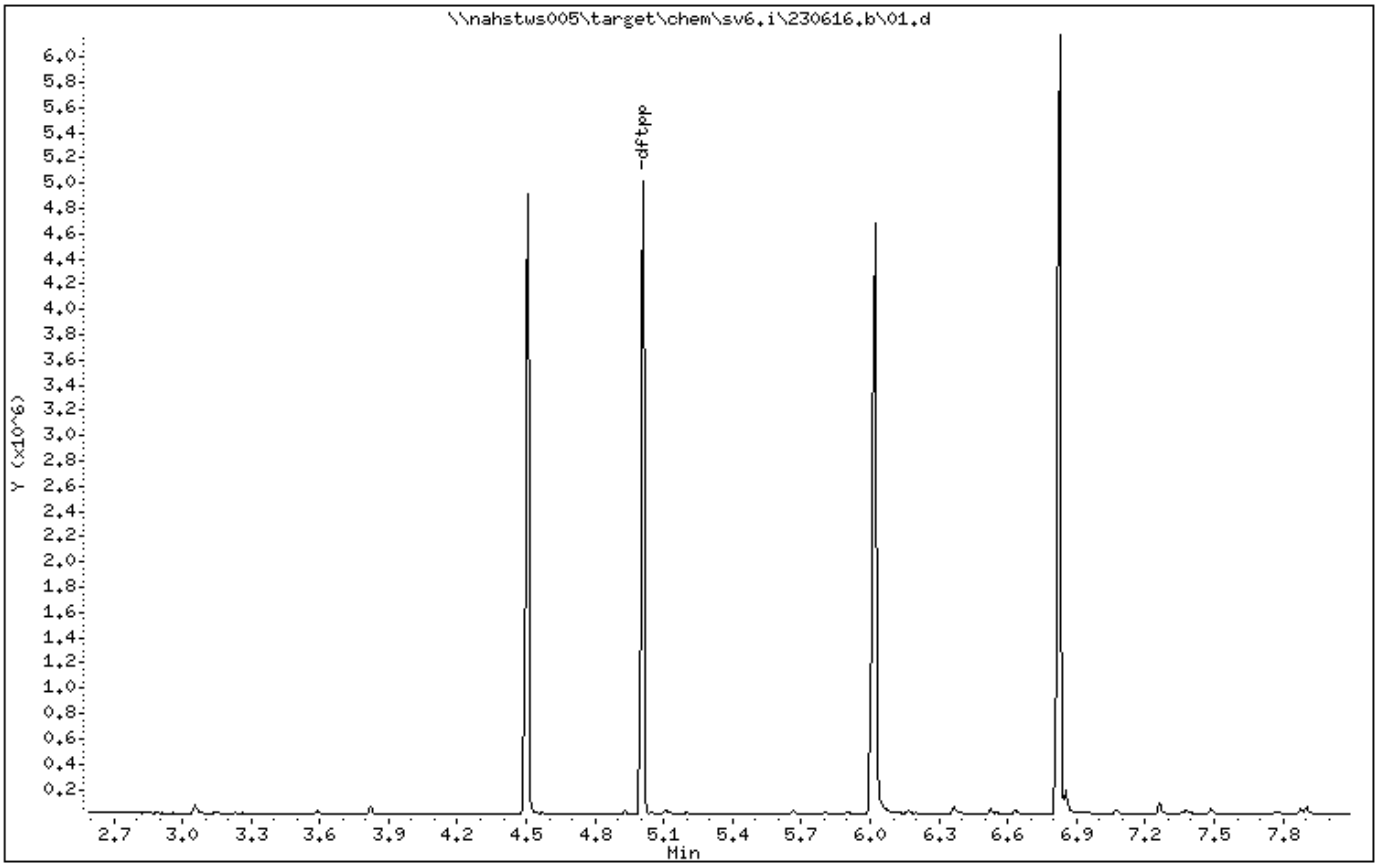
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File : \\nahstws005\target\chem\sv6.i\230616.b\01.d
Inj Date : 16-JUN-2023 09:28
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Lab Smp Id: 14DXICAL-0.01 Client Smp ID: 14DXICAL-0.01
Inj Date : 16-JUN-2023 11:08
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	5079	0.10000	(a)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	17862	0.10000	
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	515	0.01000	0.009537(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10143	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	1004	0.01000	0.009665(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	20228	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	14841	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.909	(0.889)	892	0.01000	0.008235(M)
* 198 Perylene-d12	264	11.945	11.945	(1.000)	14498	0.10000	(M)
1 1,4-Dioxane	58	1.486	1.486	(0.475)	153	0.01000	0.008943(aQM)

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.

01251509

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D

Date : 16-JUN-2023 11:08

Client ID: 14DXICAL-0.01

Instrument: SV6.i

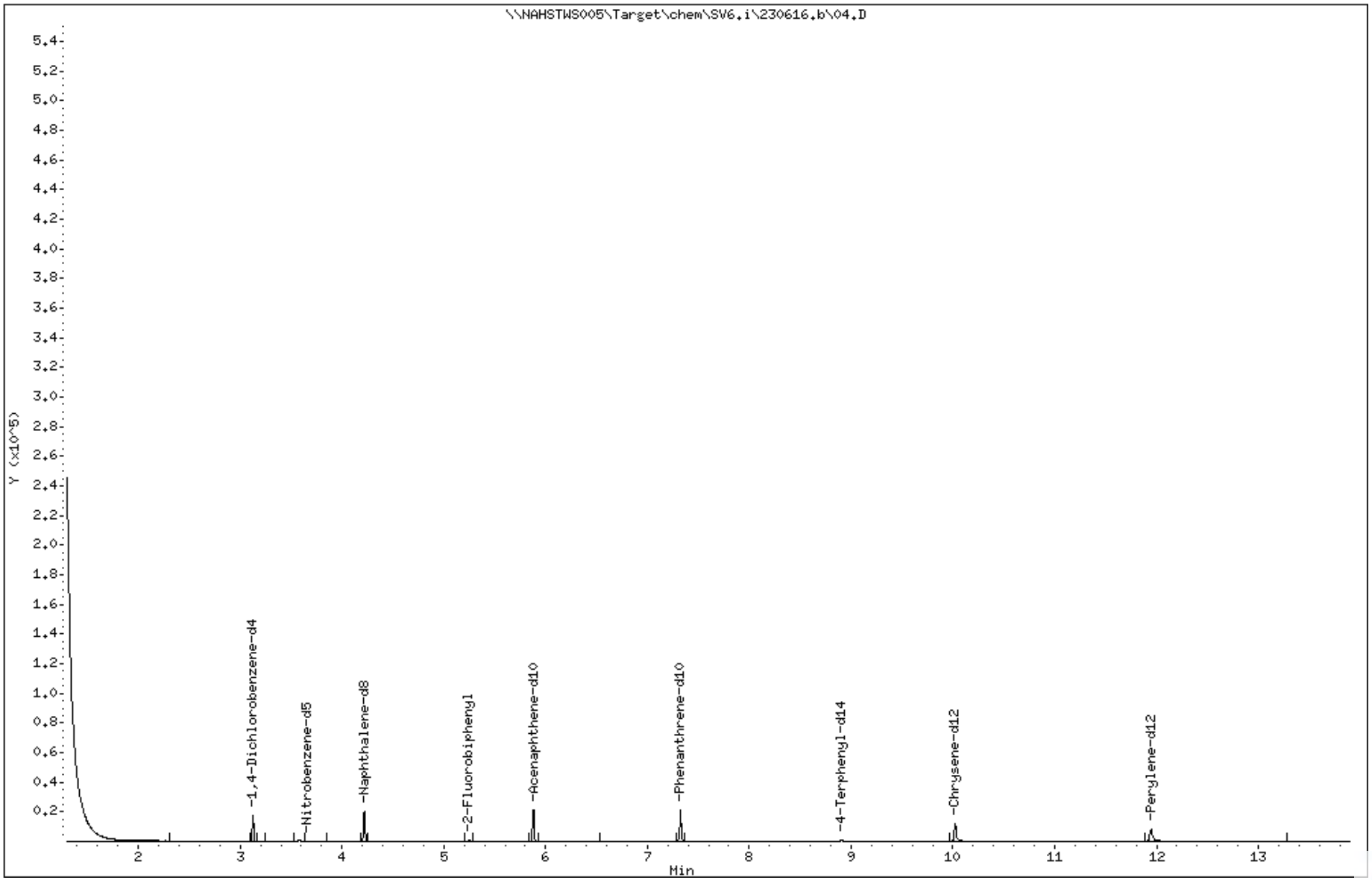
Sample Info: 14DXICAL-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



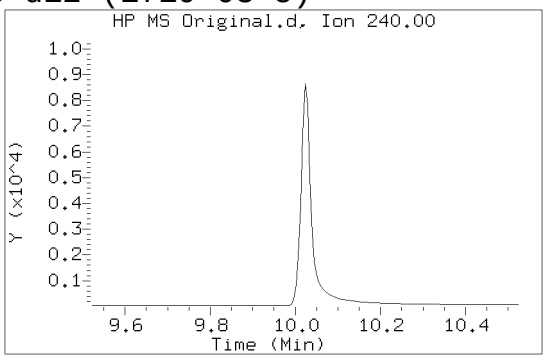
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InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Chrysene-d12 (1719-03-5)

Reason Code:

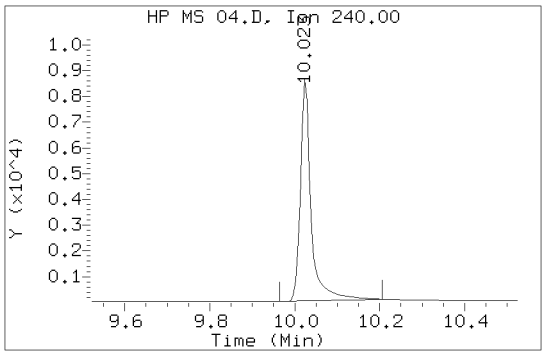
BEFORE

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AREA
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HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



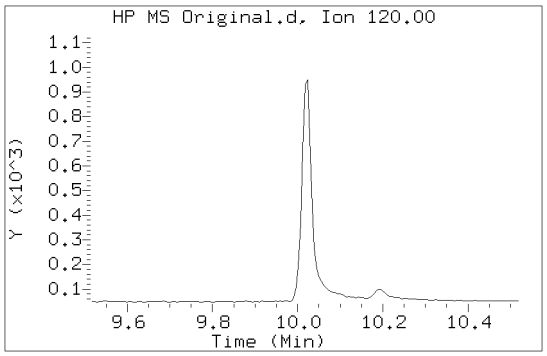
AFTER

MASS
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AREA
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HEIGHT
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29-Jun-2023
14:26
ALSHS
Ser



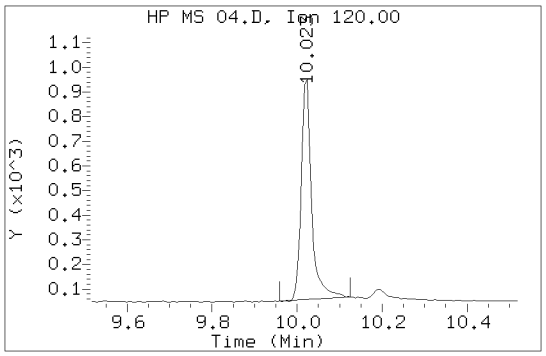
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AREA
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HEIGHT
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16-Jun-2023
11:24
ALSHS
Server



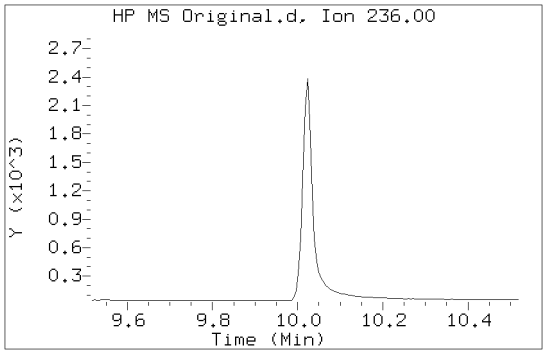
AFTER

MASS
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AREA
1504
HEIGHT
891
29-Jun-2023
14:26
ALSHS
Ser



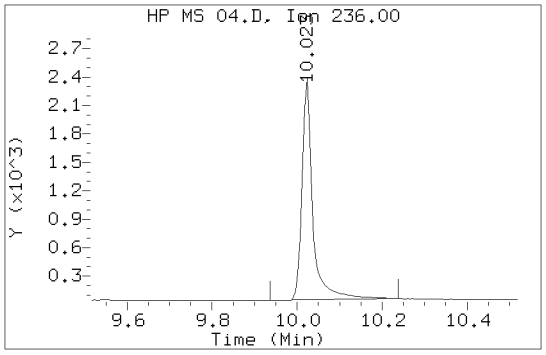
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
236
AREA
4047
HEIGHT
2330
29-Jun-2023
14:26
ALSHS
Ser

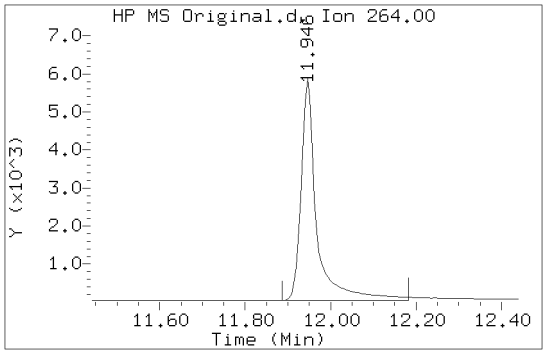


Perylene-d12 (1520-96-3)

Reason Code:

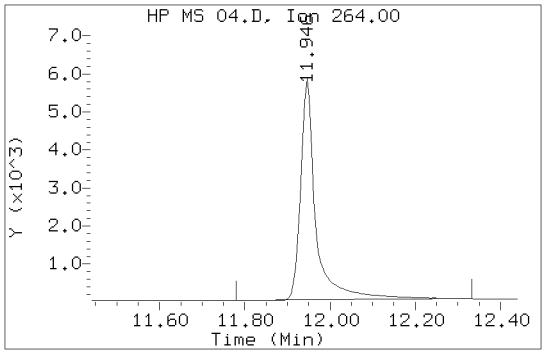
BEFORE

MASS
264
AREA
14674
HEIGHT
5826
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
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AREA
14498
HEIGHT
5814
29-Jun-2023
14:26
ALSHS
Ser



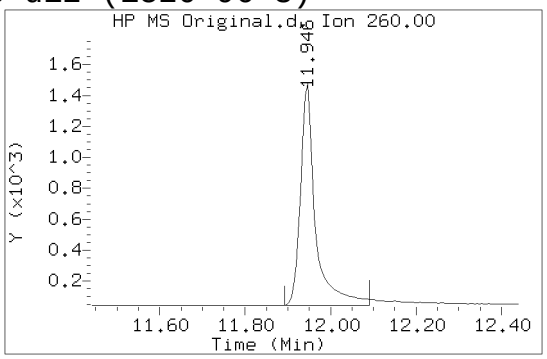
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Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Perylene-d12 (1520-96-3)

Reason Code:

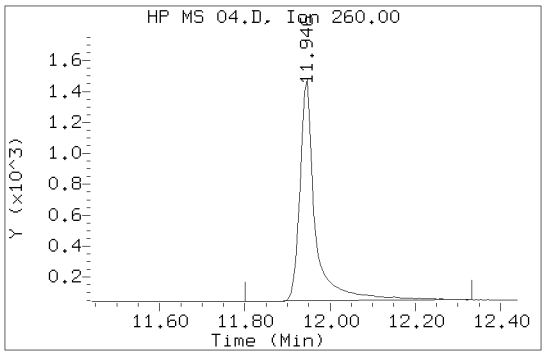
BEFORE

MASS
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AREA
3461
HEIGHT
1431
16-Jun-2023
11:24
ALSHS
Server



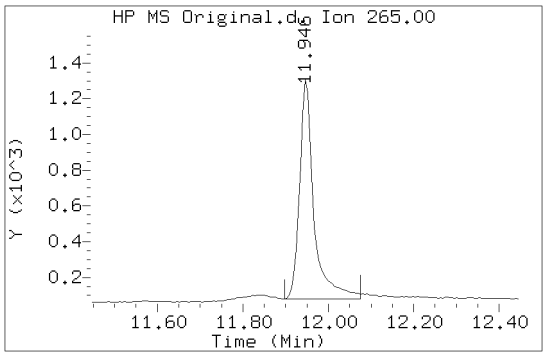
AFTER

MASS
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AREA
3563
HEIGHT
1428
29-Jun-2023
14:26
ALSHS
Ser



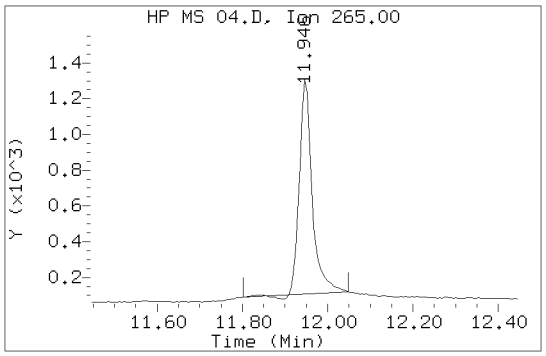
BEFORE

MASS
265
AREA
2841
HEIGHT
1225
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
265
AREA
2485
HEIGHT
1196
29-Jun-2023
14:26
ALSHS
Ser

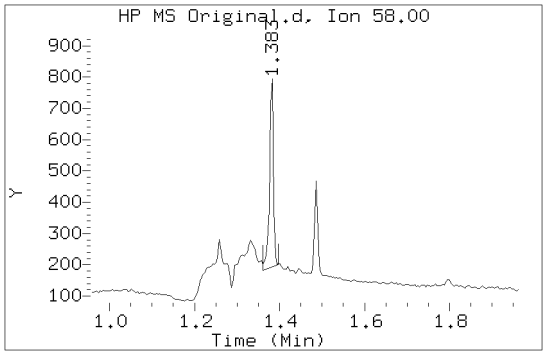


1,4-Dioxane ()

Reason Code:

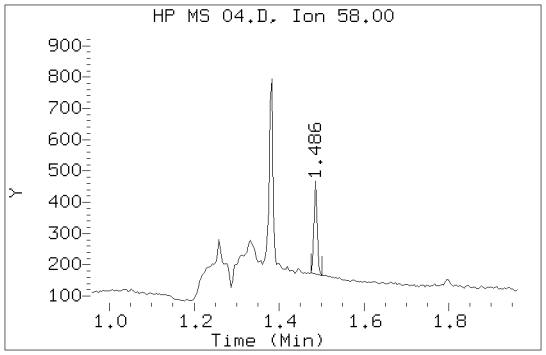
BEFORE

MASS
58
AREA
375
HEIGHT
599
16-Jun-2023
11:24
ALSHS
Server



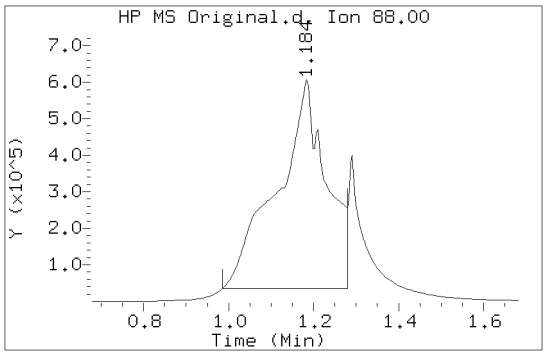
AFTER

MASS
58
AREA
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HEIGHT
296
29-Jun-2023
14:26
ALSHS
Ser



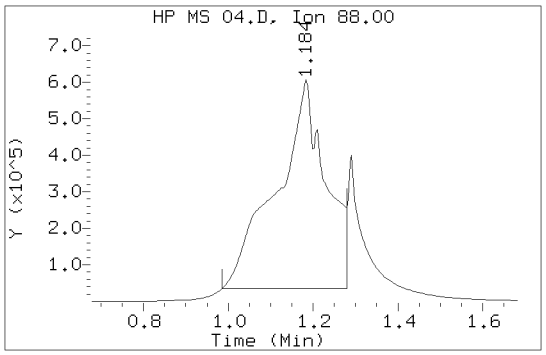
BEFORE

MASS
88
AREA
4618745
HEIGHT
572488
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
88
AREA
4618745
HEIGHT
572488
29-Jun-2023
14:26
ALSHS
Ser



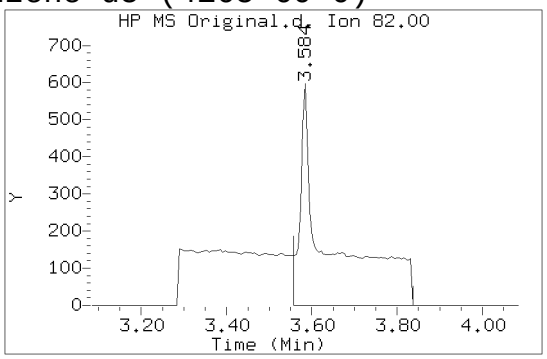
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Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

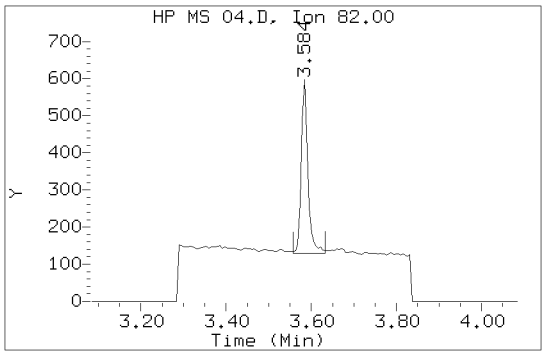
BEFORE

MASS
82
AREA
2695
HEIGHT
597
16-Jun-2023
11:24
ALSHS
Server



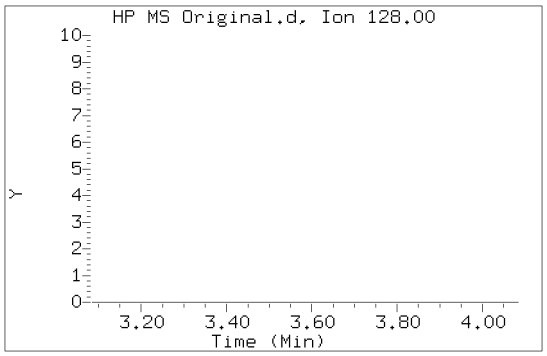
AFTER

MASS
82
AREA
515
HEIGHT
468
29-Jun-2023
14:26
ALSHS
Ser



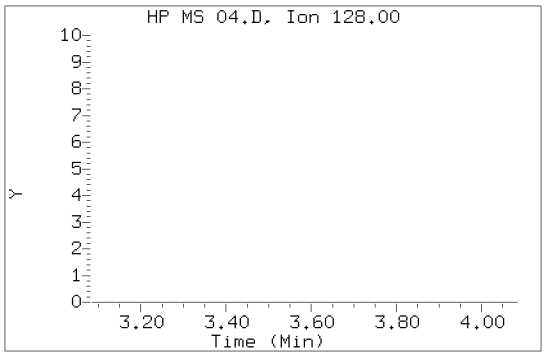
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



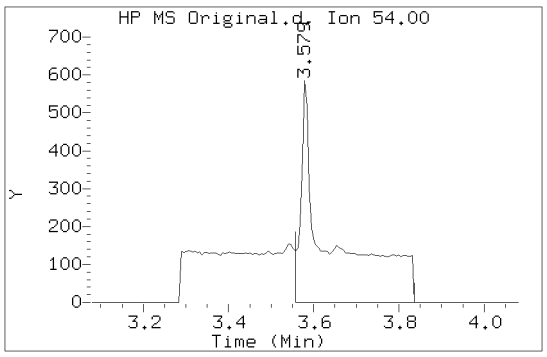
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



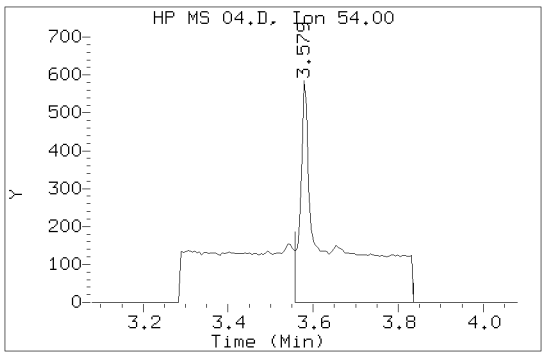
BEFORE

MASS
54
AREA
2634
HEIGHT
585
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
54
AREA
2634
HEIGHT
585
29-Jun-2023
14:26
ALSHS
Ser

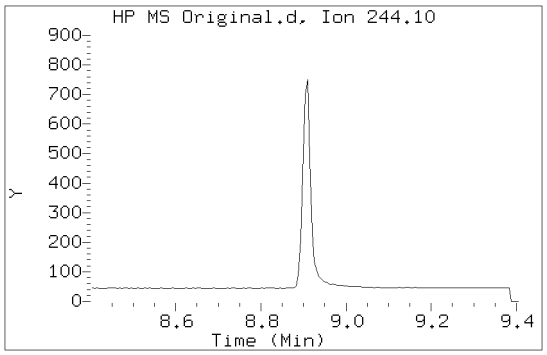


4-Terphenyl-d14 (1718-51-0)

Reason Code:

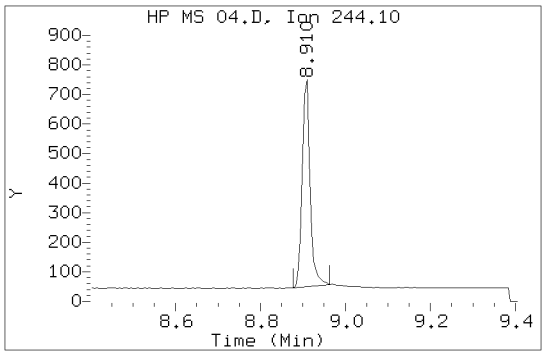
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
244.1
AREA
892
HEIGHT
699
29-Jun-2023
14:26
ALSHS
Ser



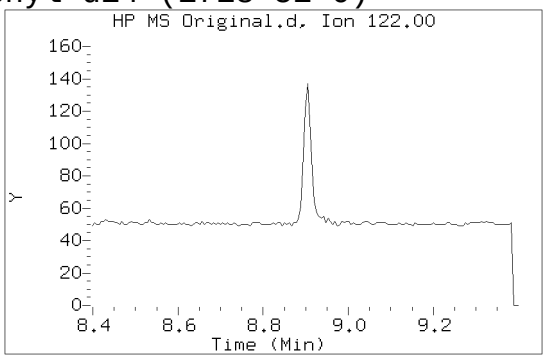
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\04.D
Inj Date : 16-JUN-2023 11:08
InstruID : SV6.i
LabSampID : 14DXICAL-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

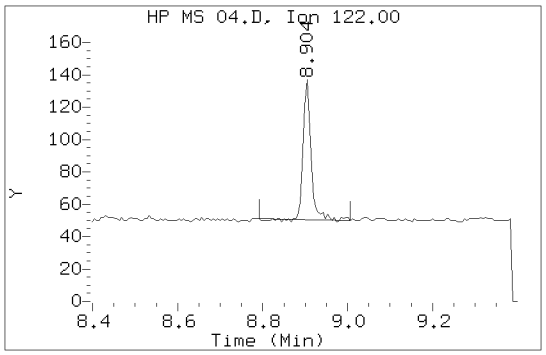
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



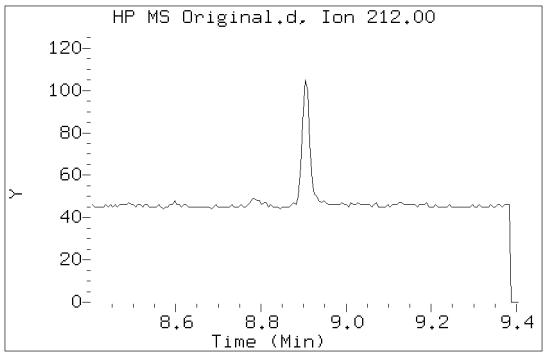
AFTER

MASS
122
AREA
109
HEIGHT
86
29-Jun-2023
14:26
ALSHS
Ser



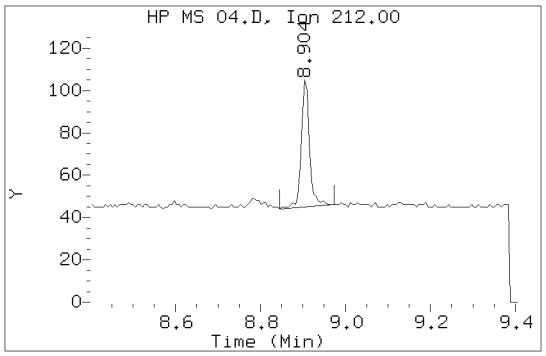
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
212
AREA
80
HEIGHT
60
29-Jun-2023
14:26
ALSHS
Ser

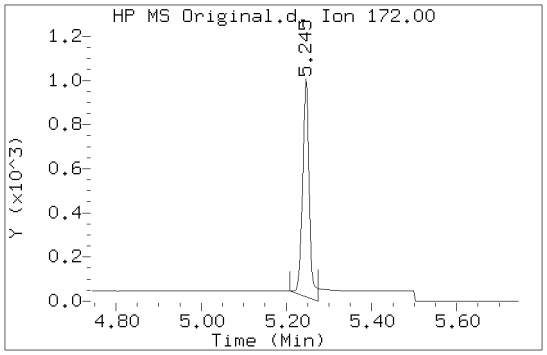


2-Fluorobiphenyl (321-60-8)

Reason Code:

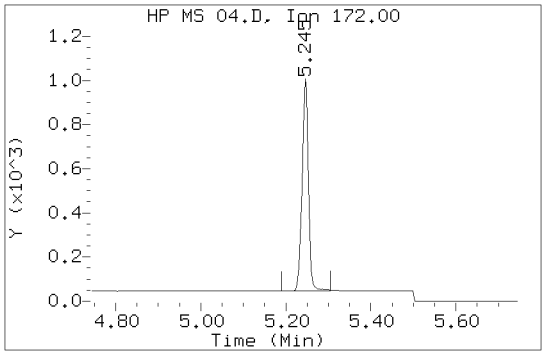
BEFORE

MASS
172
AREA
1093
HEIGHT
986
16-Jun-2023
11:24
ALSHS
Server



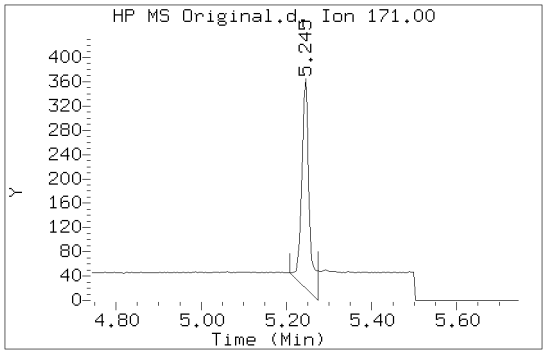
AFTER

MASS
172
AREA
1004
HEIGHT
960
29-Jun-2023
14:26
ALSHS
Ser



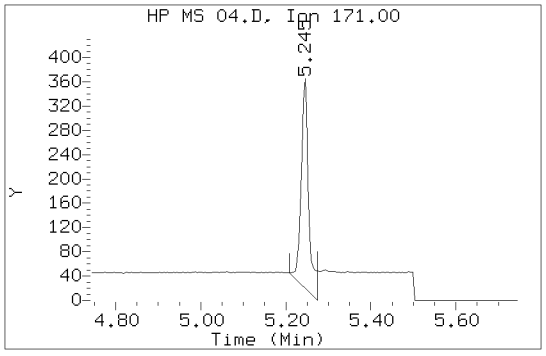
BEFORE

MASS
171
AREA
428
HEIGHT
345
16-Jun-2023
11:24
ALSHS
Server



AFTER

MASS
171
AREA
428
HEIGHT
345
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Lab Smp Id: 14DXICAL-0.03 Client Smp ID: 14DXICAL-0.03
Inj Date : 16-JUN-2023 11:26
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:08 Cal File: 04.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	4348	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	14672	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	1234	0.03000	0.02782(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	8616	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	2509	0.03000	0.02843(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	16998	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	11821	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.888)	2416	0.03000	0.02800(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	10677	0.10000	(M)
1 1,4-Dioxane	58	1.467	1.467	(0.469)	426	0.03000	0.02909(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.

01251515

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D

Page 1

Date : 16-JUN-2023 11:26

Client ID: 14DXICAL-0.03

Instrument: SV6.i

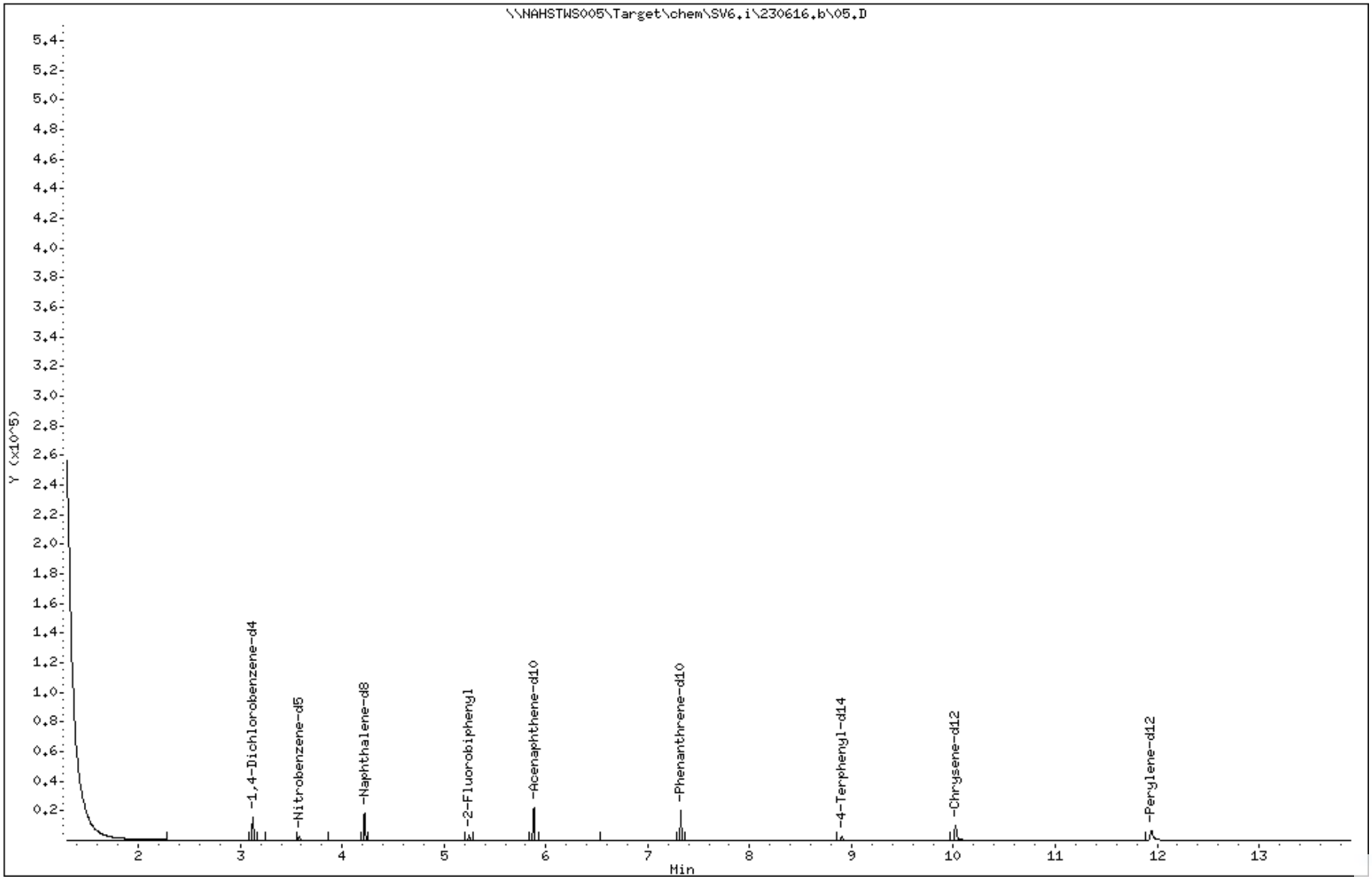
Sample Info: 14DXICAL-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



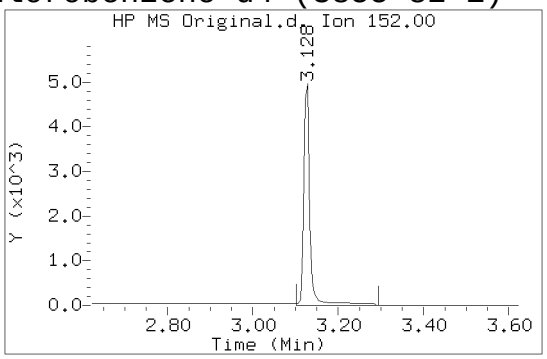
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

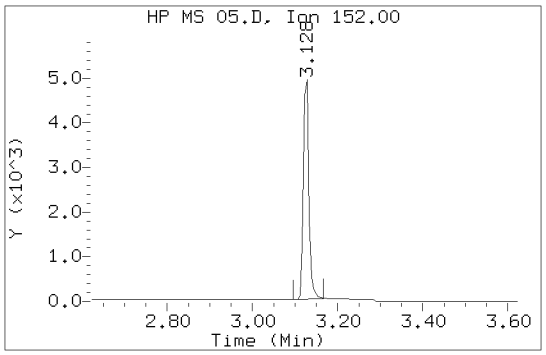
BEFORE

MASS
152
AREA
4935
HEIGHT
4966
16-Jun-2023
11:42
ALSHS
Server



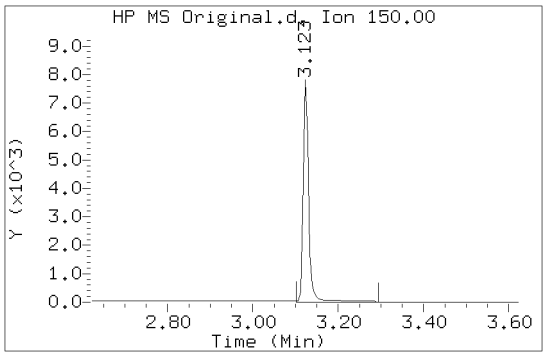
AFTER

MASS
152
AREA
4348
HEIGHT
4916
29-Jun-2023
14:26
ALSHS
Ser



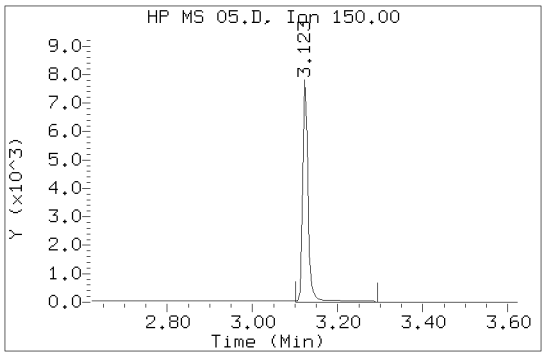
BEFORE

MASS
150
AREA
6954
HEIGHT
7812
16-Jun-2023
11:42
ALSHS
Server



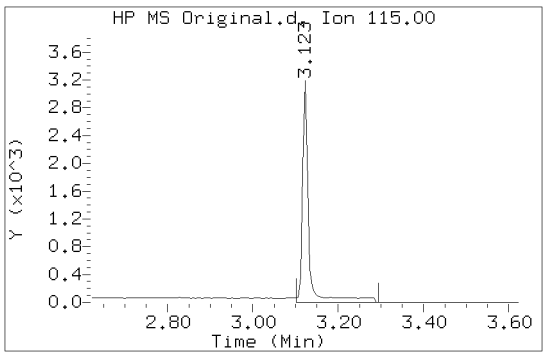
AFTER

MASS
150
AREA
6954
HEIGHT
7812
29-Jun-2023
14:26
ALSHS
Ser



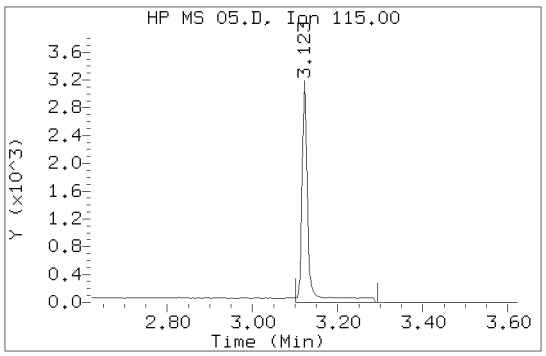
BEFORE

MASS
115
AREA
3189
HEIGHT
3190
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
115
AREA
3189
HEIGHT
3190
29-Jun-2023
14:26
ALSHS
Ser

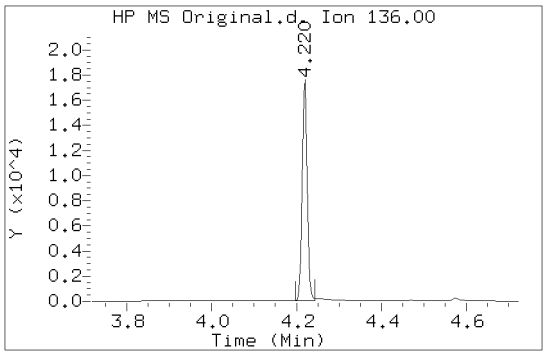


Naphthalene-d8 (1146-65-2)

Reason Code:

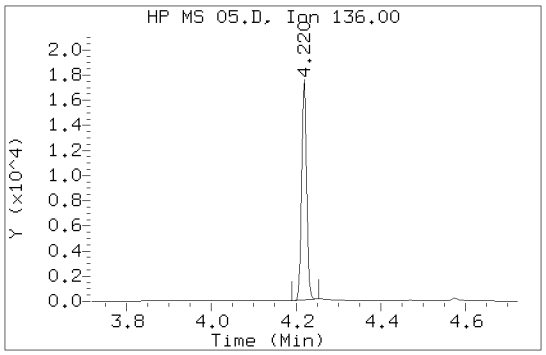
BEFORE

MASS
136
AREA
14851
HEIGHT
17567
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
136
AREA
14672
HEIGHT
17505
29-Jun-2023
14:26
ALSHS
Ser



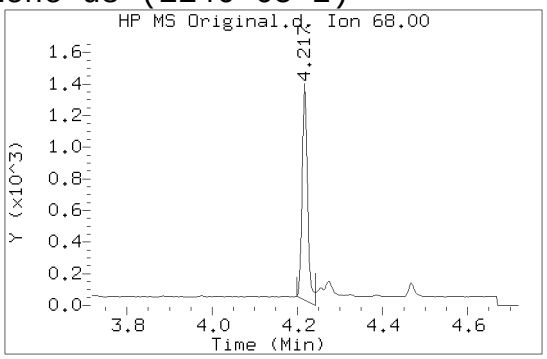
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Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

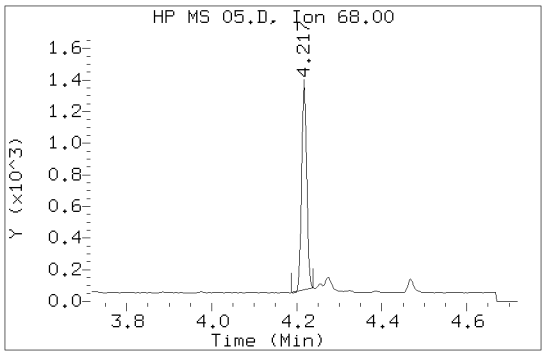
BEFORE

MASS
68
AREA
1196
HEIGHT
1368
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
68
AREA
1062
HEIGHT
1328
29-Jun-2023
14:26
ALSHS
Ser

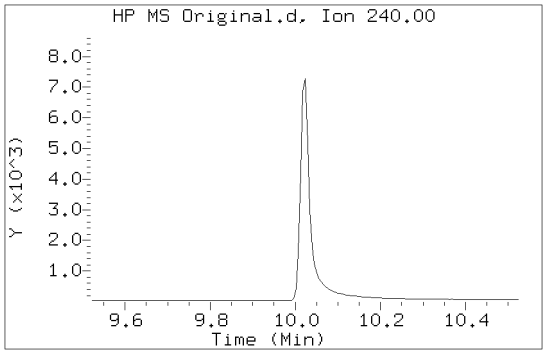


Chrysene-d12 (1719-03-5)

Reason Code:

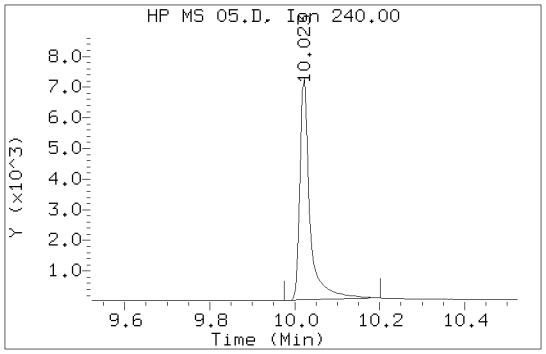
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



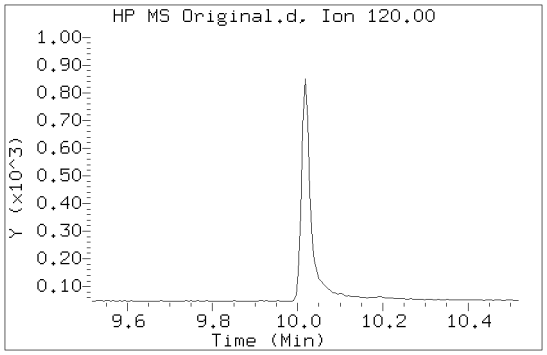
AFTER

MASS
240
AREA
11821
HEIGHT
7215
29-Jun-2023
14:26
ALSHS
Ser



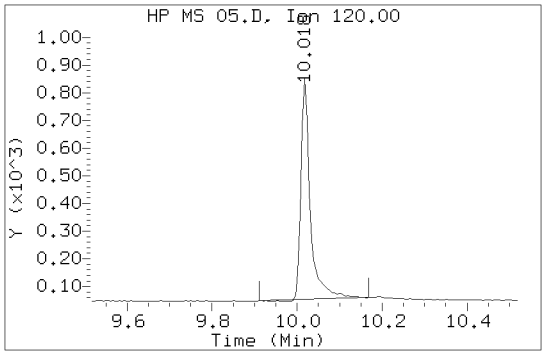
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



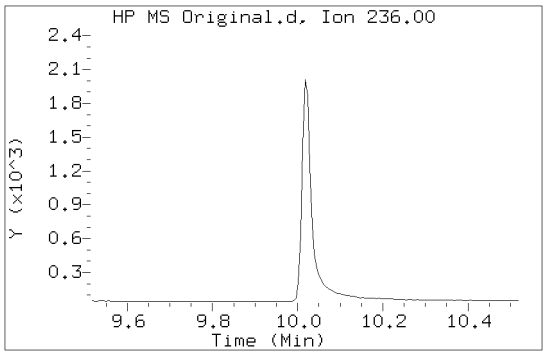
AFTER

MASS
120
AREA
1207
HEIGHT
796
29-Jun-2023
14:26
ALSHS
Ser



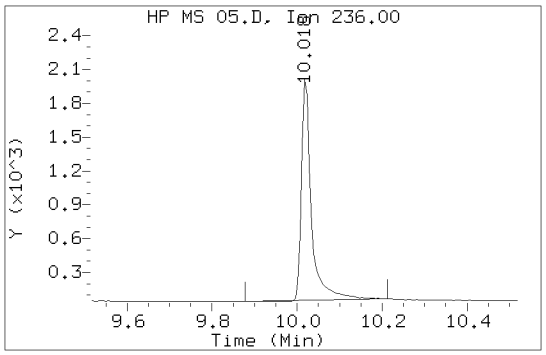
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
236
AREA
3185
HEIGHT
1956
29-Jun-2023
14:26
ALSHS
Ser



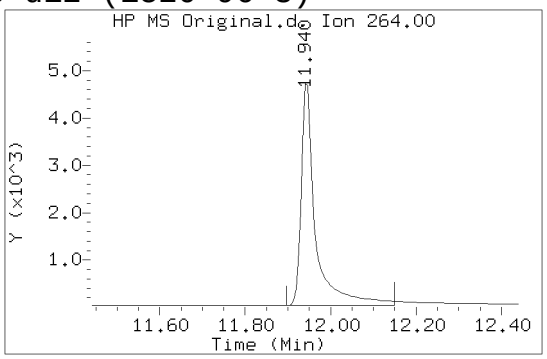
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Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

Perylene-d12 (1520-96-3)

Reason Code:

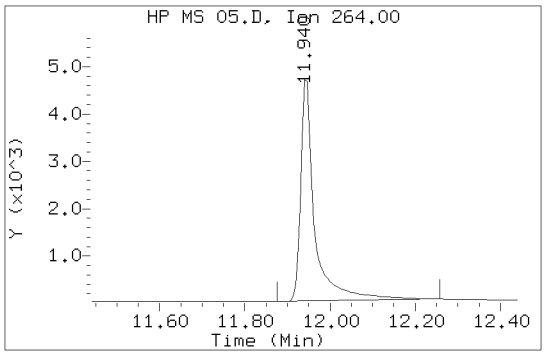
BEFORE

MASS
264
AREA
10829
HEIGHT
4681
16-Jun-2023
11:42
ALSHS
Server



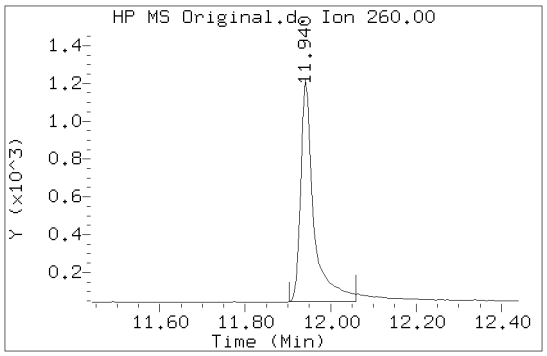
AFTER

MASS
264
AREA
10677
HEIGHT
4673
29-Jun-2023
14:26
ALSHS
Ser



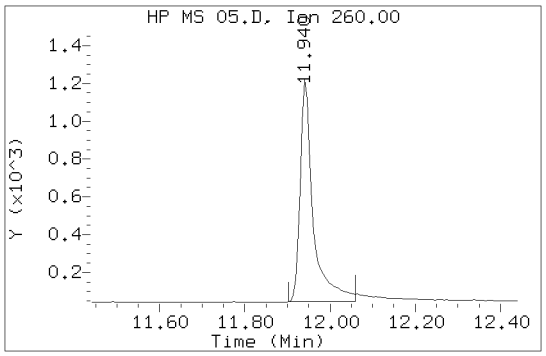
BEFORE

MASS
260
AREA
2488
HEIGHT
1174
16-Jun-2023
11:42
ALSHS
Server



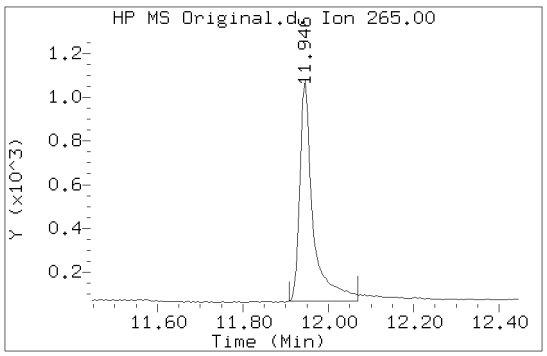
AFTER

MASS
260
AREA
2488
HEIGHT
1174
29-Jun-2023
14:26
ALSHS
Ser



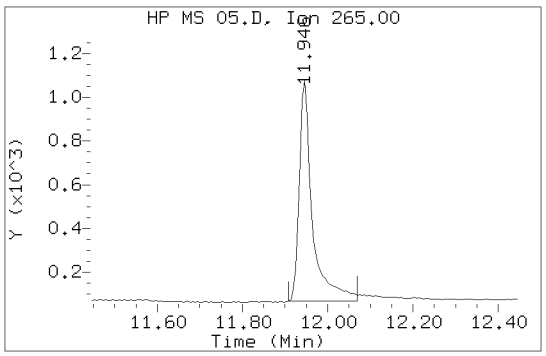
BEFORE

MASS
265
AREA
2154
HEIGHT
1009
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
265
AREA
2154
HEIGHT
1009
29-Jun-2023
14:26
ALSHS
Ser

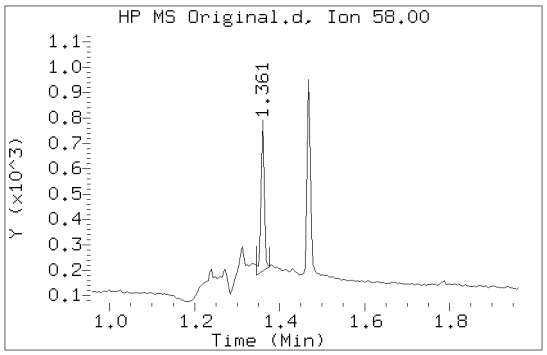


1,4-Dioxane ()

Reason Code:

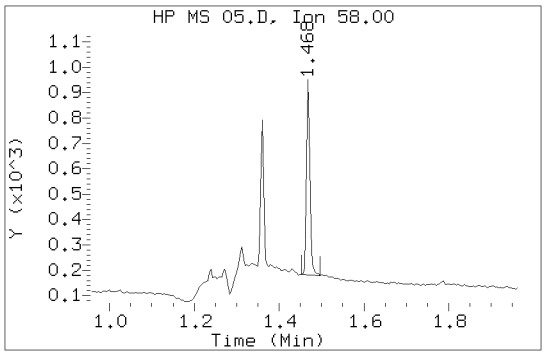
BEFORE

MASS
58
AREA
319
HEIGHT
594
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
58
AREA
426
HEIGHT
768
29-Jun-2023
14:26
ALSHS
Ser



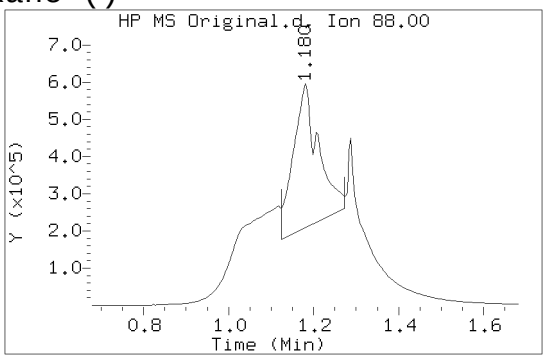
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

1,4-Dioxane ()

Reason Code:

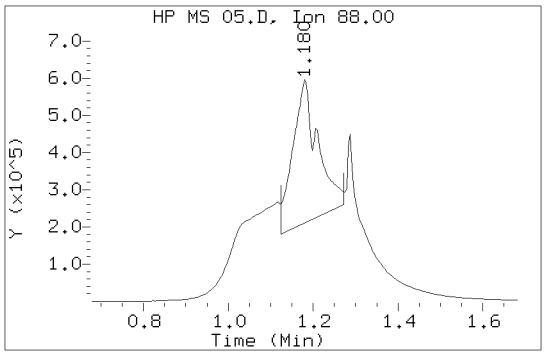
BEFORE

MASS
88
AREA
1599767
HEIGHT
386587
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
88
AREA
1591467
HEIGHT
385442
29-Jun-2023
14:26
ALSHS
Ser

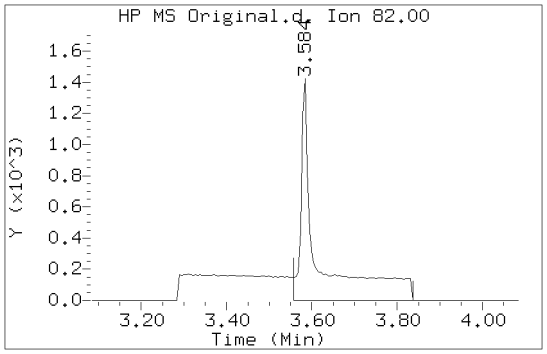


Nitrobenzene-d5 (4165-60-0)

Reason Code:

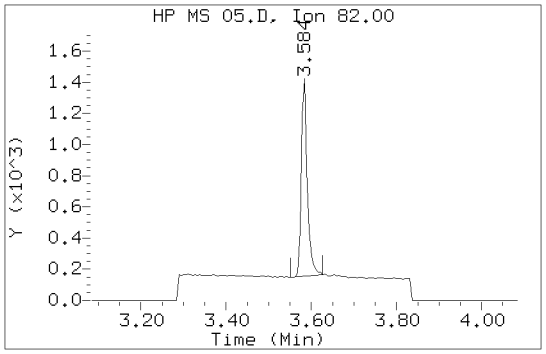
BEFORE

MASS
82
AREA
3739
HEIGHT
1423
16-Jun-2023
11:42
ALSHS
Server



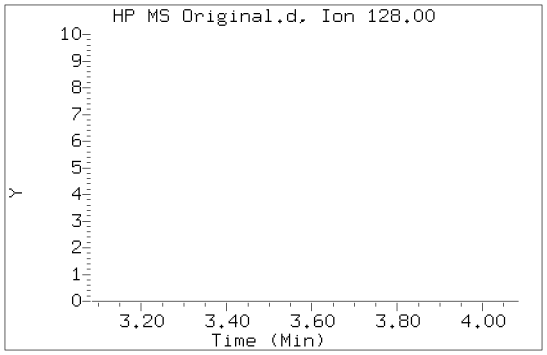
AFTER

MASS
82
AREA
1234
HEIGHT
1266
29-Jun-2023
14:26
ALSHS
Ser



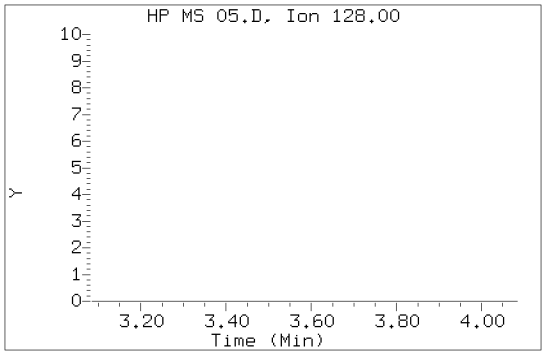
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



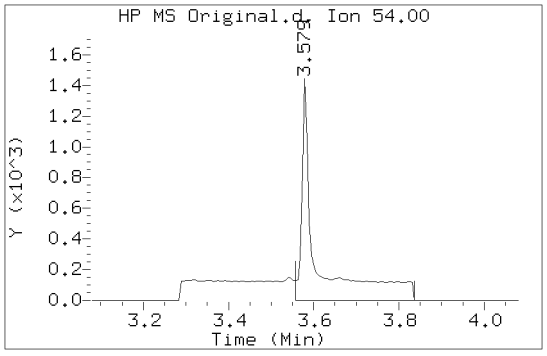
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



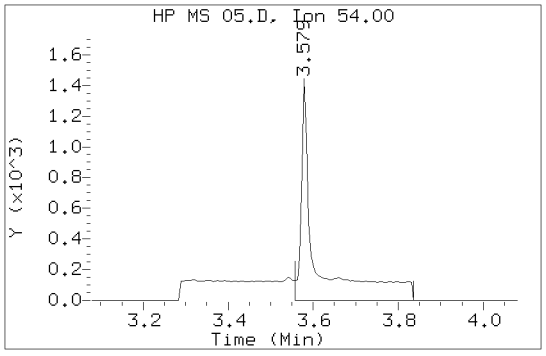
BEFORE

MASS
54
AREA
3364
HEIGHT
1444
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
54
AREA
3364
HEIGHT
1444
29-Jun-2023
14:26
ALSHS
Ser



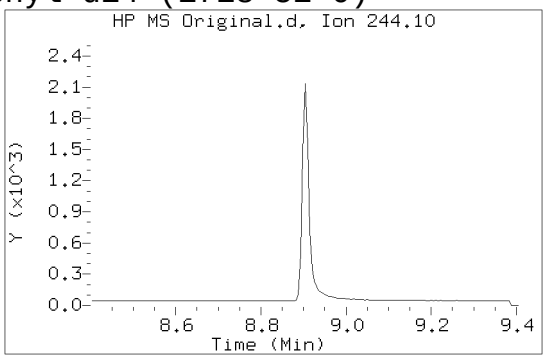
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

4-Terphenyl-d14 (1718-51-0)

Reason Code:

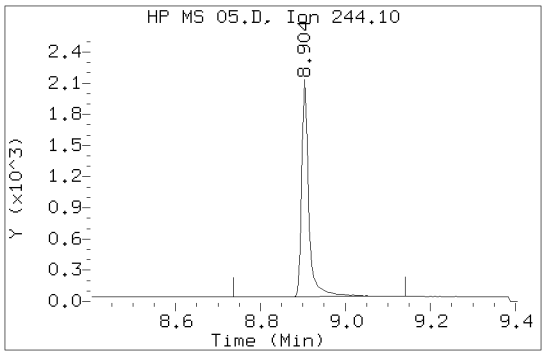
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



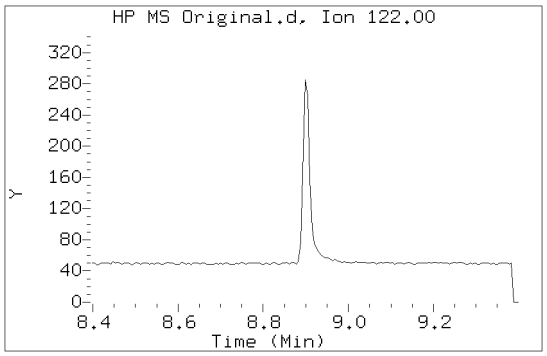
AFTER

MASS
244.1
AREA
2416
HEIGHT
2087
29-Jun-2023
14:26
ALSHS
Ser



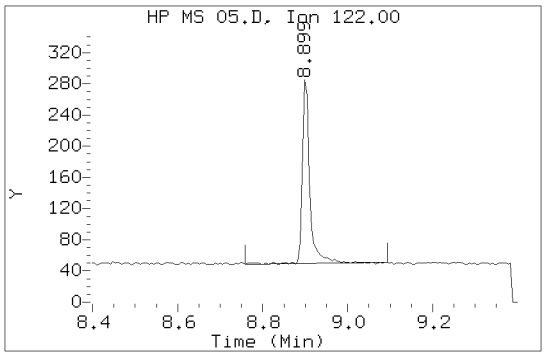
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



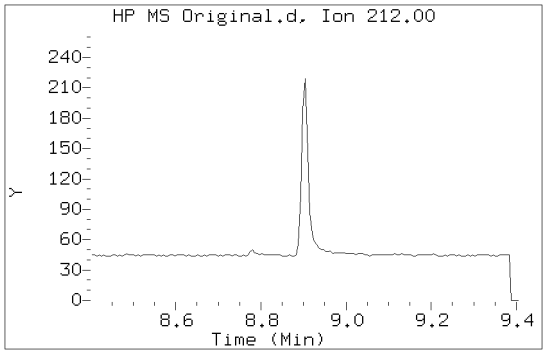
AFTER

MASS
122
AREA
278
HEIGHT
235
29-Jun-2023
14:26
ALSHS
Ser



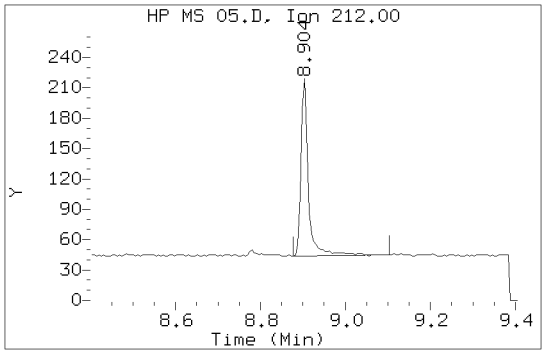
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
212
AREA
205
HEIGHT
174
29-Jun-2023
14:26
ALSHS
Ser

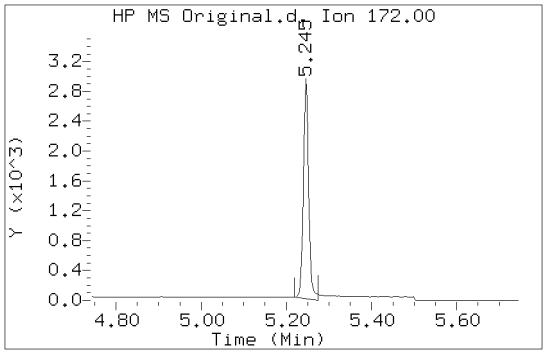


2-Fluorobiphenyl (321-60-8)

Reason Code:

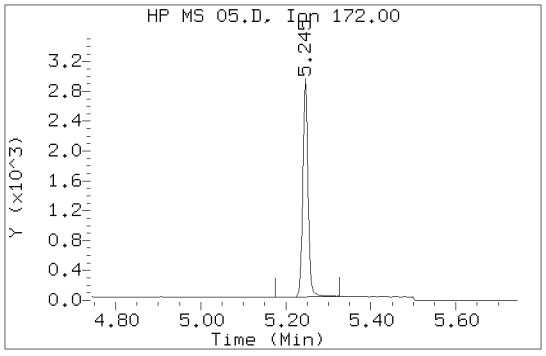
BEFORE

MASS
172
AREA
2588
HEIGHT
2943
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
172
AREA
2509
HEIGHT
2918
29-Jun-2023
14:26
ALSHS
Ser



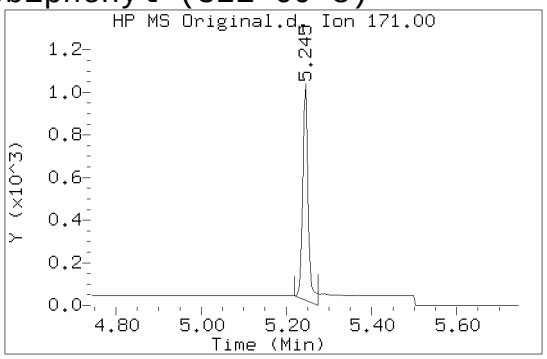
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\05.D
Inj Date : 16-JUN-2023 11:26
InstruID : SV6.i
LabSampID : 14DXICAL-0.03

2-Fluorobiphenyl (321-60-8)

Reason Code:

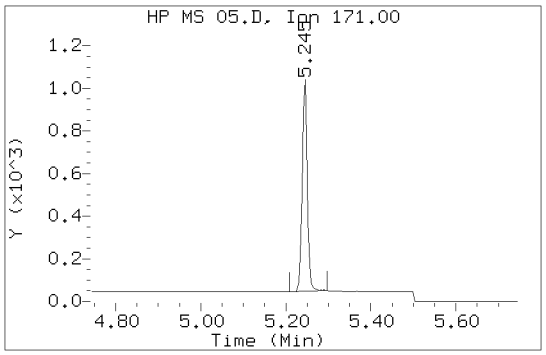
BEFORE

MASS
171
AREA
921
HEIGHT
1017
16-Jun-2023
11:42
ALSHS
Server



AFTER

MASS
171
AREA
834
HEIGHT
993
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Lab Smp Id: 14DXICAL-0.05 Client Smp ID: 14DXICAL-0.05
Inj Date : 16-JUN-2023 11:44
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:26 Cal File: 05.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	5073	0.10000	(a)
* 45 Naphthalene-d8	136	4.216	4.216	(1.000)	17044	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.850)	2574	0.05000	0.04995(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10027	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	4907	0.05000	0.04778(M)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	19800	0.10000	
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	14524	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	4687	0.05000	0.04422(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	12549	0.10000	(M)
1 1,4-Dioxane	58	1.486	1.486	(0.475)	828	0.05000	0.04846(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.

01251523

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D

Date : 16-JUN-2023 11:44

Client ID: 14DXICAL-0.05

Instrument: SV6.i

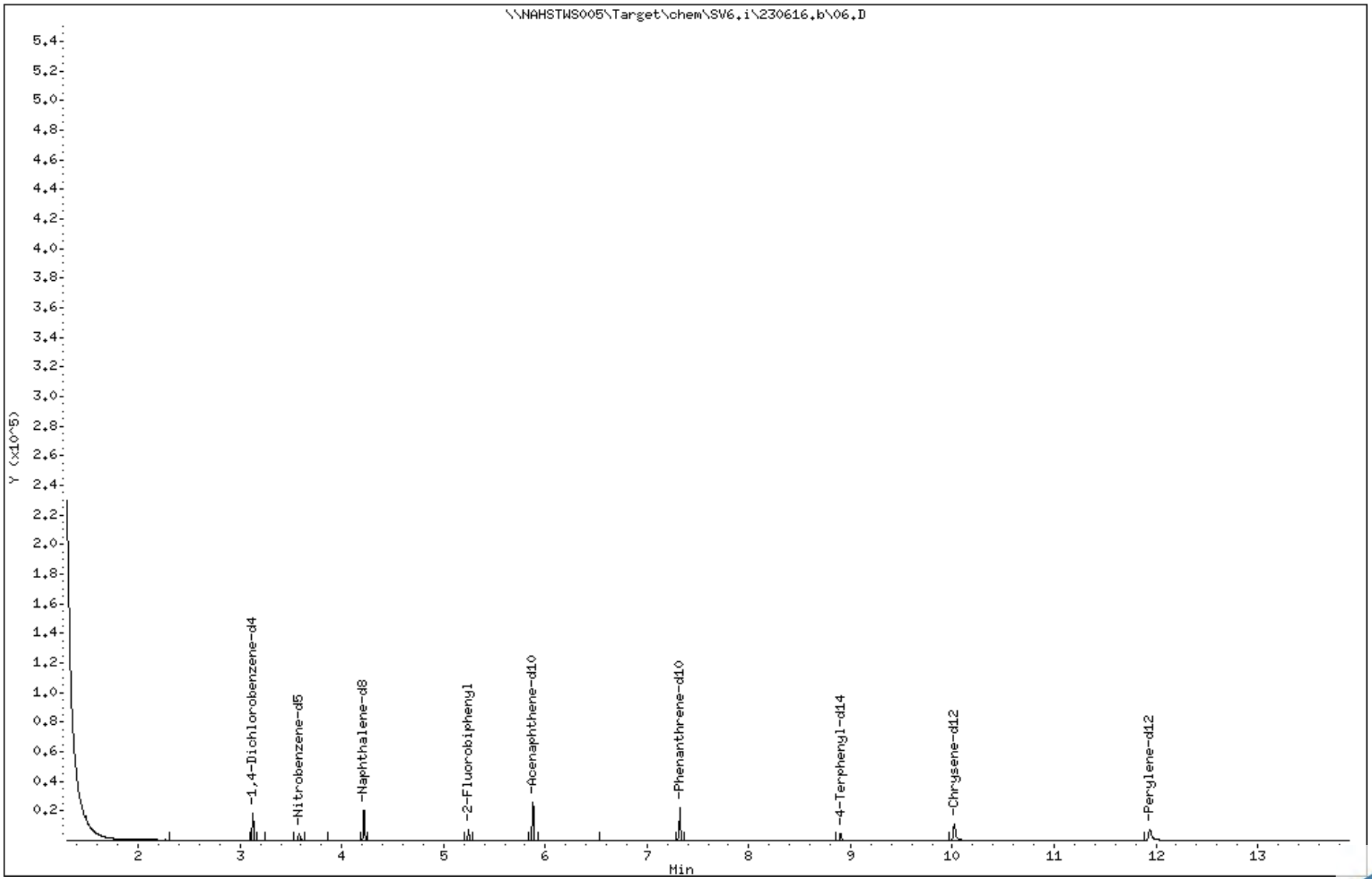
Sample Info: 14DXICAL-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



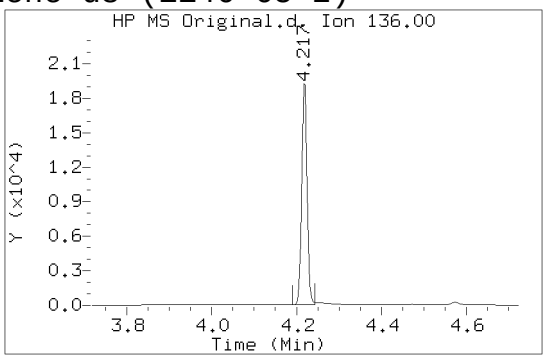
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

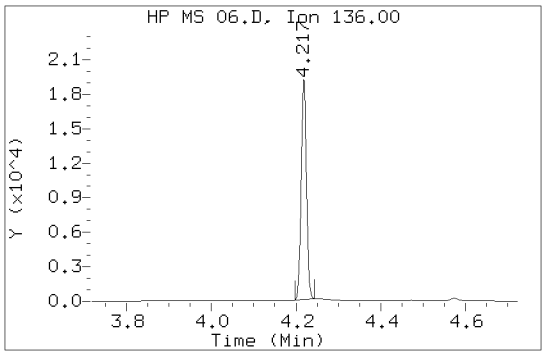
BEFORE

MASS
136
AREA
17378
HEIGHT
19211
16-Jun-2023
11:59
ALSHS
Server



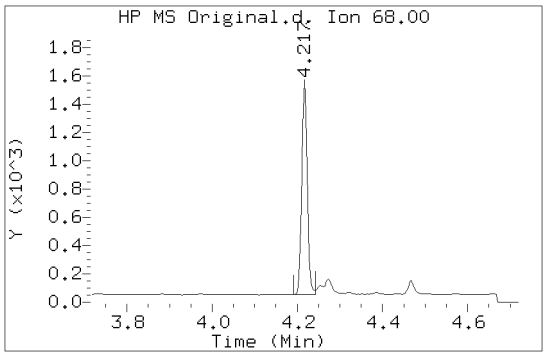
AFTER

MASS
136
AREA
17044
HEIGHT
19106
29-Jun-2023
14:26
ALSHS
Ser



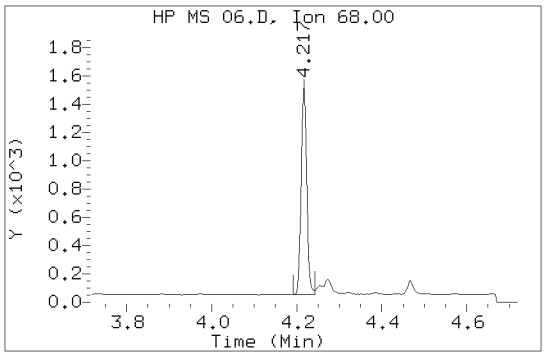
BEFORE

MASS
68
AREA
1330
HEIGHT
1515
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
68
AREA
1330
HEIGHT
1515
29-Jun-2023
14:26
ALSHS
Ser

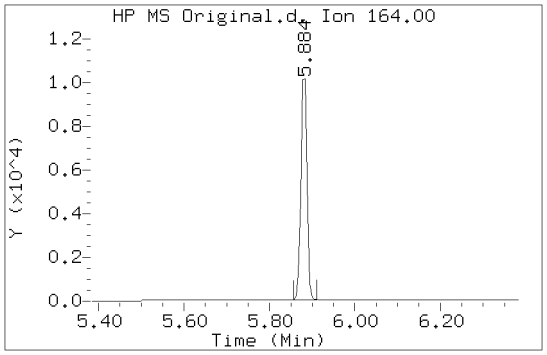


Acenaphthene-d10 (15067-26-2)

Reason Code:

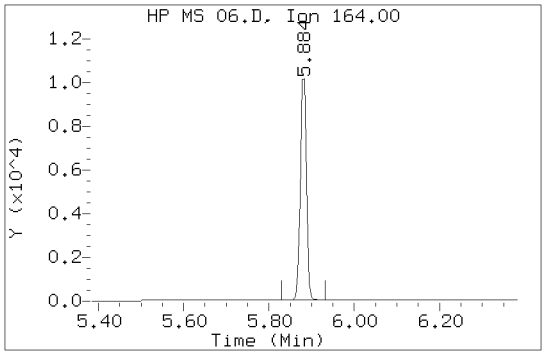
BEFORE

MASS
164
AREA
9969
HEIGHT
10109
16-Jun-2023
11:59
ALSHS
Server



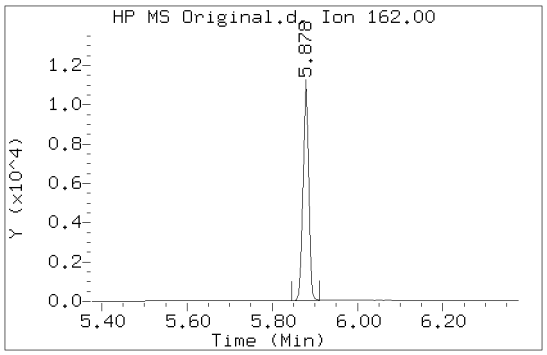
AFTER

MASS
164
AREA
10027
HEIGHT
10124
29-Jun-2023
14:26
ALSHS
Ser



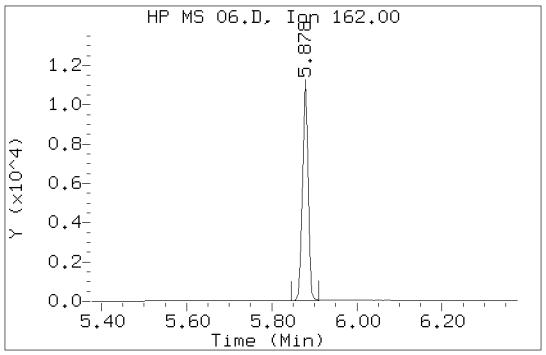
BEFORE

MASS
162
AREA
10122
HEIGHT
11230
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
162
AREA
10122
HEIGHT
11230
29-Jun-2023
14:26
ALSHS
Ser



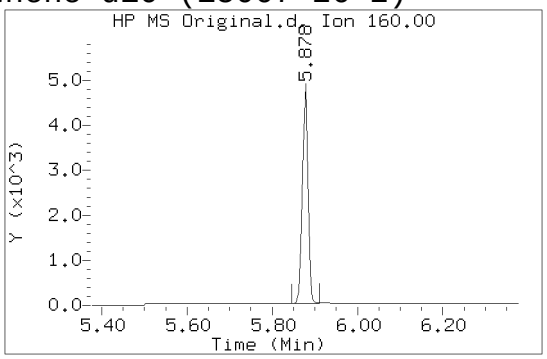
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Acenaphthene-d10 (15067-26-2)

Reason Code:

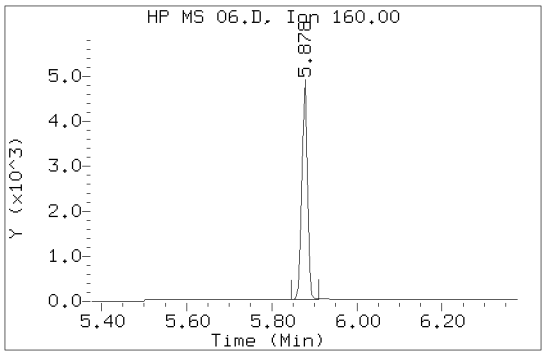
BEFORE

MASS
160
AREA
4359
HEIGHT
4881
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
160
AREA
4359
HEIGHT
4881
29-Jun-2023
14:26
ALSHS
Ser

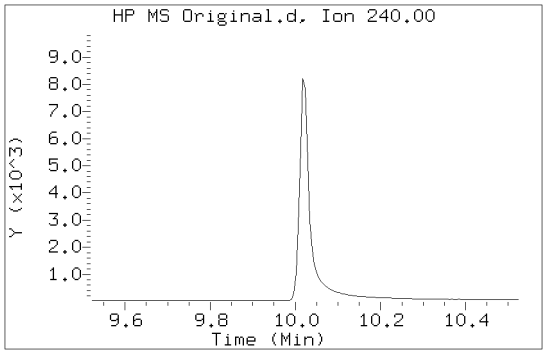


Chrysene-d12 (1719-03-5)

Reason Code:

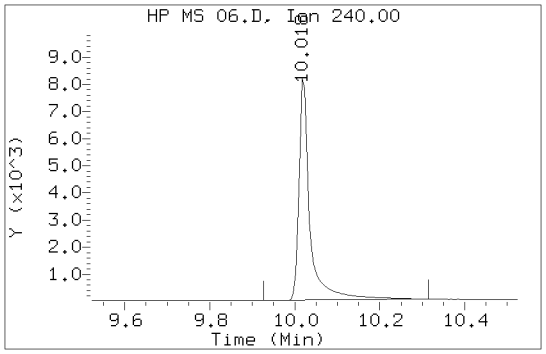
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



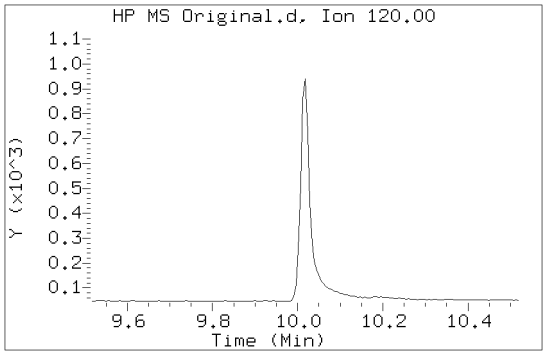
AFTER

MASS
240
AREA
14524
HEIGHT
8152
29-Jun-2023
14:26
ALSHS
Ser



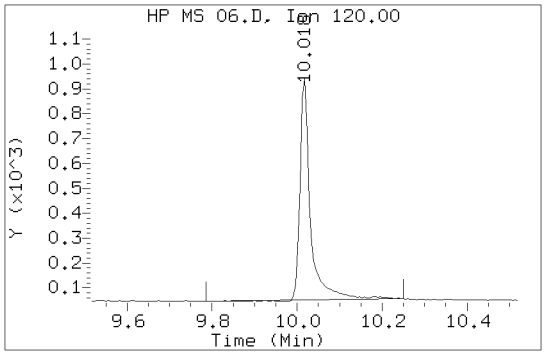
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



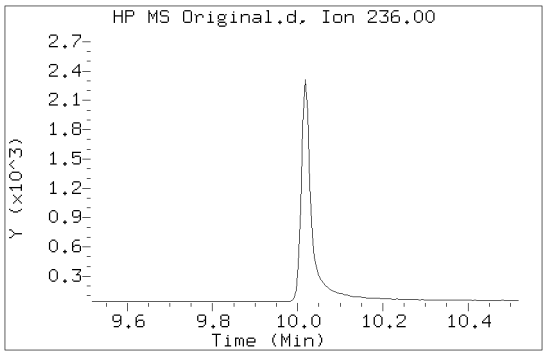
AFTER

MASS
120
AREA
1511
HEIGHT
888
29-Jun-2023
14:26
ALSHS
Ser



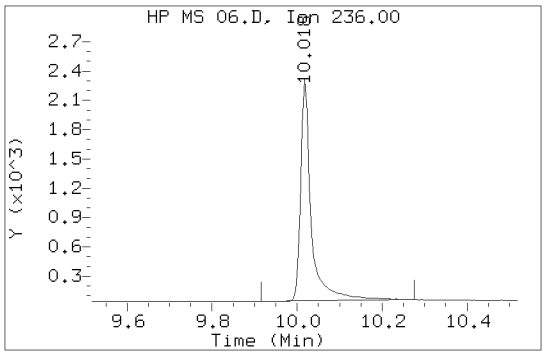
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
236
AREA
3903
HEIGHT
2262
29-Jun-2023
14:26
ALSHS
Ser



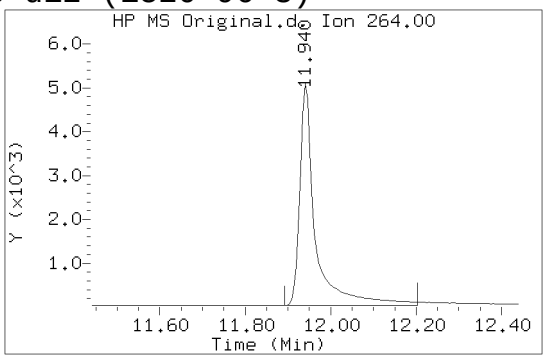
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

Perylene-d12 (1520-96-3)

Reason Code:

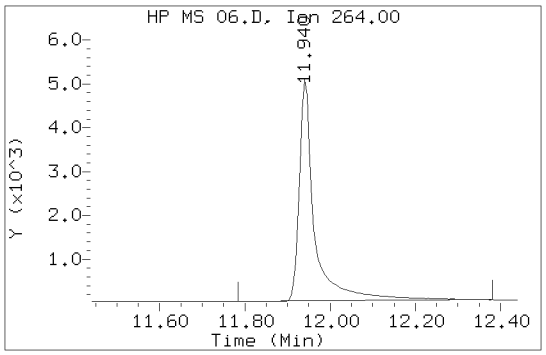
BEFORE

MASS
264
AREA
12686
HEIGHT
5050
16-Jun-2023
11:59
ALSHS
Server



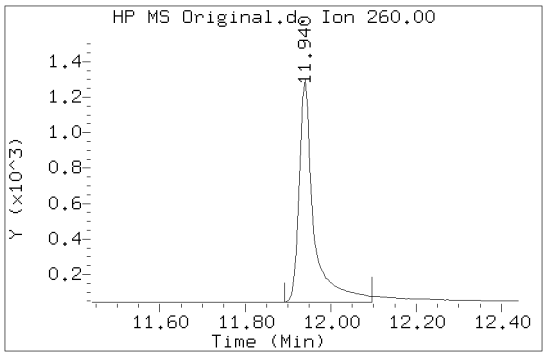
AFTER

MASS
264
AREA
12549
HEIGHT
5041
29-Jun-2023
14:26
ALSHS
Ser



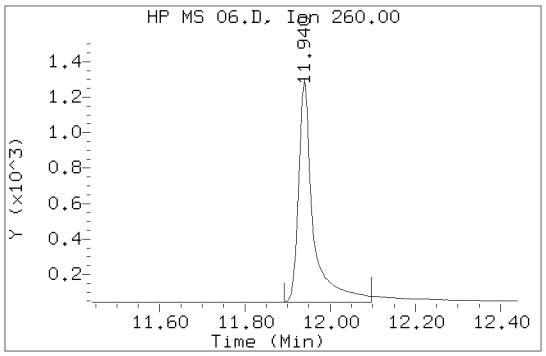
BEFORE

MASS
260
AREA
2978
HEIGHT
1253
16-Jun-2023
11:59
ALSHS
Server



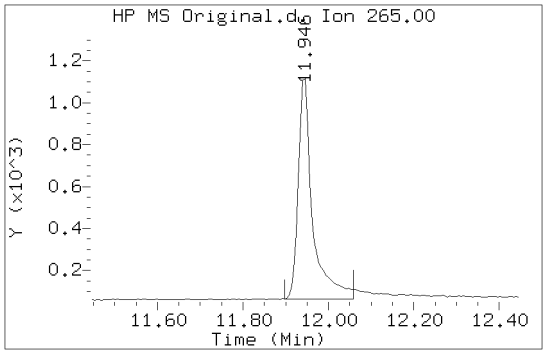
AFTER

MASS
260
AREA
2978
HEIGHT
1253
29-Jun-2023
14:26
ALSHS
Ser



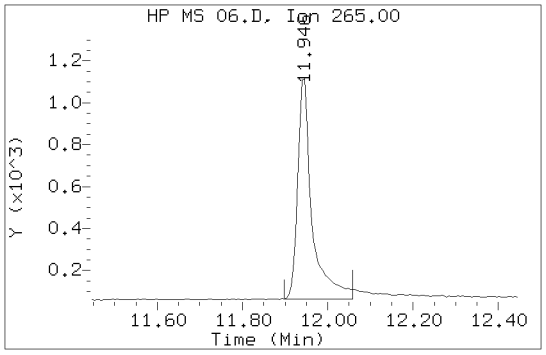
BEFORE

MASS
265
AREA
2473
HEIGHT
1053
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
265
AREA
2473
HEIGHT
1053
29-Jun-2023
14:26
ALSHS
Ser

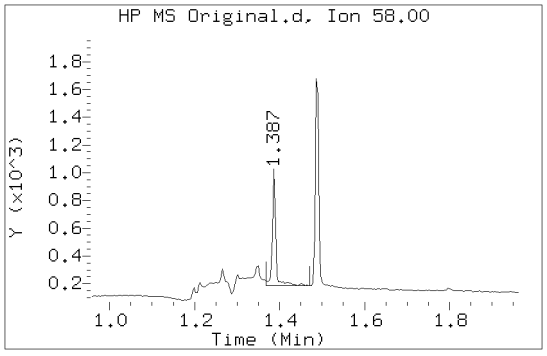


1,4-Dioxane ()

Reason Code:

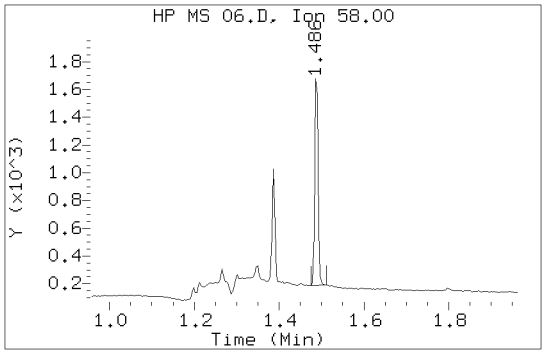
BEFORE

MASS
58
AREA
474
HEIGHT
839
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
58
AREA
828
HEIGHT
1488
29-Jun-2023
14:26
ALSHS
Ser



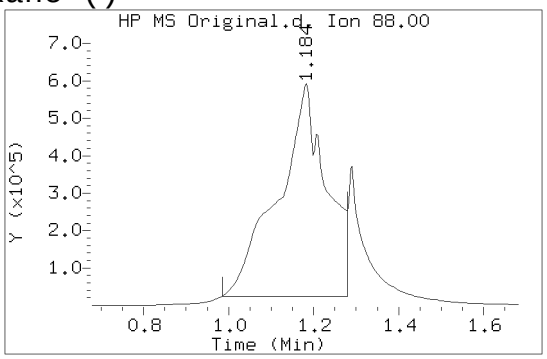
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

1,4-Dioxane ()

Reason Code:

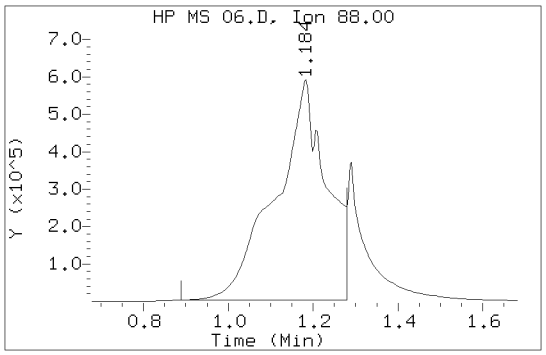
BEFORE

MASS
88
AREA
4490753
HEIGHT
567696
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
88
AREA
4905096
HEIGHT
589066
29-Jun-2023
14:26
ALSHS
Ser

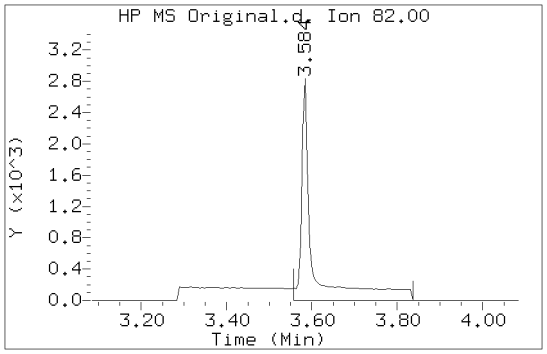


Nitrobenzene-d5 (4165-60-0)

Reason Code:

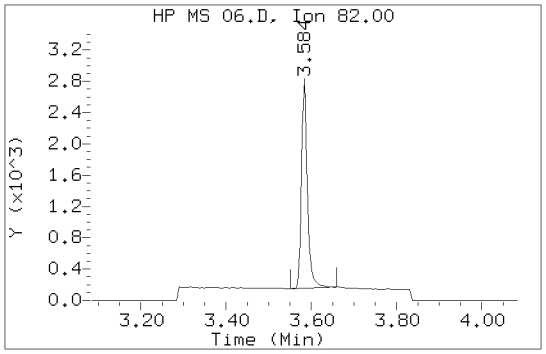
BEFORE

MASS
82
AREA
5121
HEIGHT
2833
16-Jun-2023
11:59
ALSHS
Server



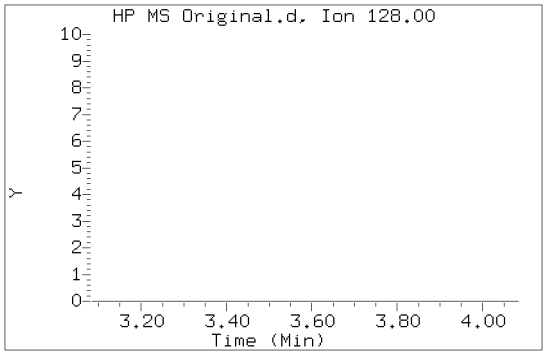
AFTER

MASS
82
AREA
2574
HEIGHT
2676
29-Jun-2023
14:26
ALSHS
Ser



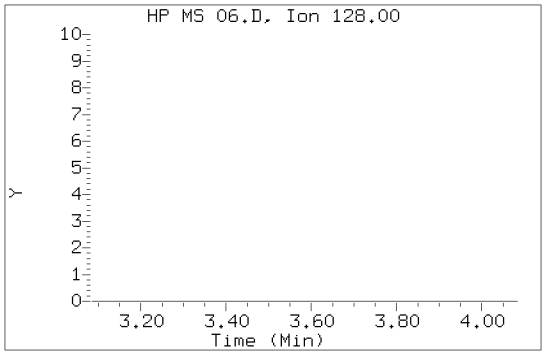
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



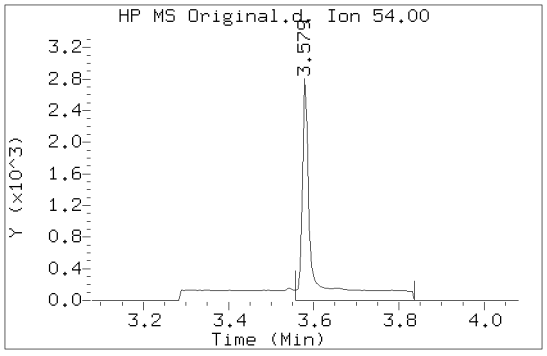
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



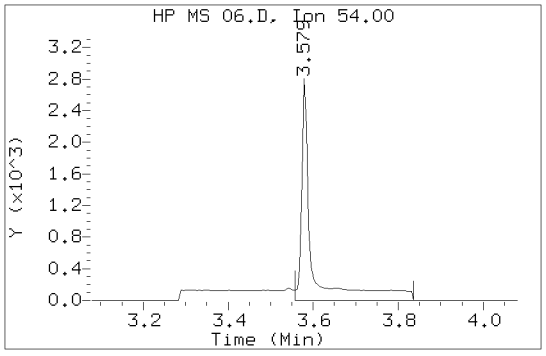
BEFORE

MASS
54
AREA
4709
HEIGHT
2805
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
54
AREA
4709
HEIGHT
2805
29-Jun-2023
14:26
ALSHS
Ser



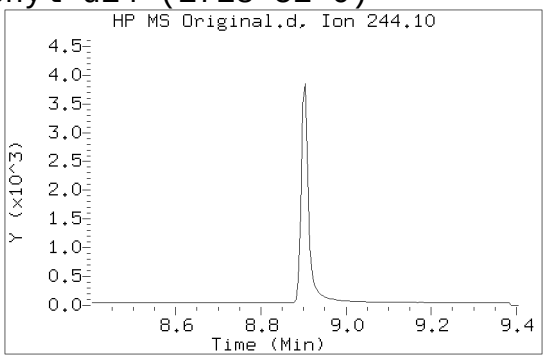
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

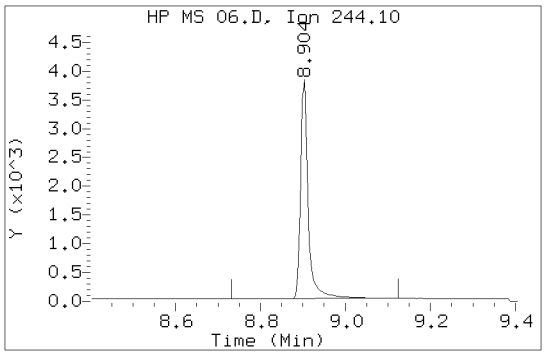
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



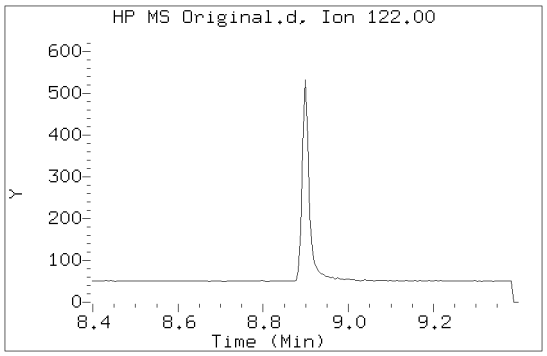
AFTER

MASS
244.1
AREA
4687
HEIGHT
3802
29-Jun-2023
14:26
ALSHS
Ser



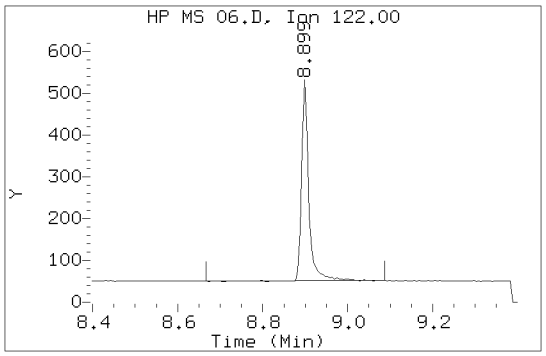
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



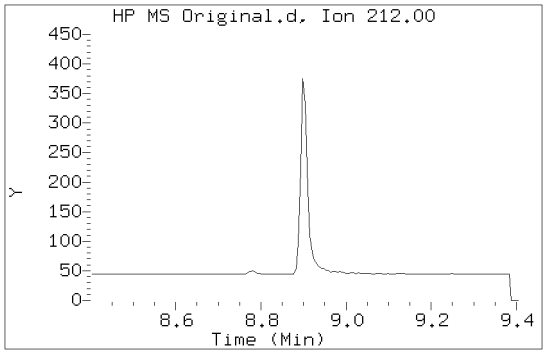
AFTER

MASS
122
AREA
540
HEIGHT
480
29-Jun-2023
14:26
ALSHS
Ser



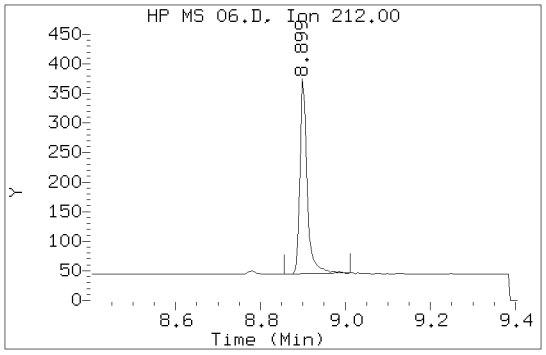
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
212
AREA
383
HEIGHT
330
29-Jun-2023
14:26
ALSHS
Ser

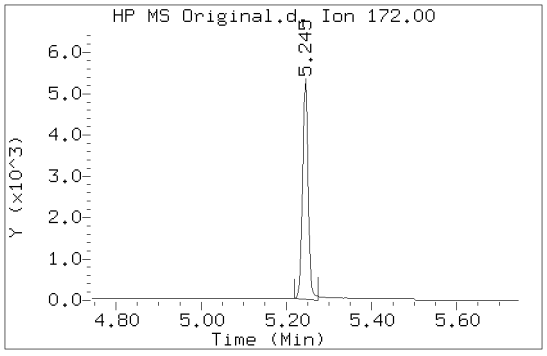


2-Fluorobiphenyl (321-60-8)

Reason Code:

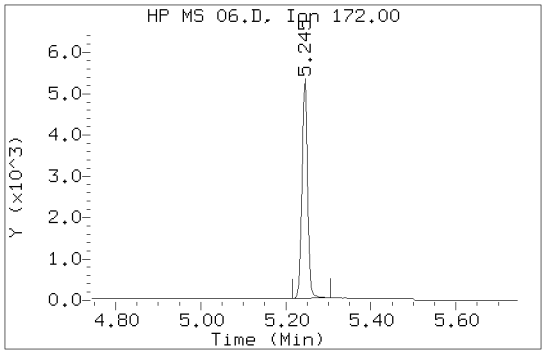
BEFORE

MASS
172
AREA
4989
HEIGHT
5338
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
172
AREA
4907
HEIGHT
5312
29-Jun-2023
14:26
ALSHS
Ser



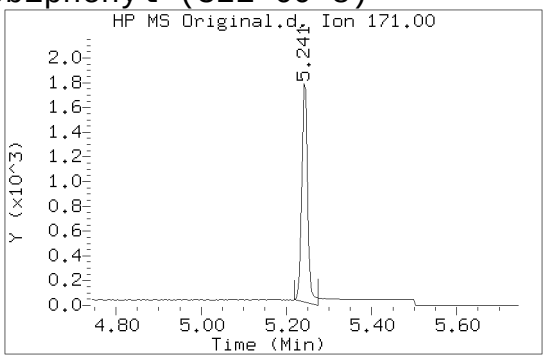
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\06.D
Inj Date : 16-JUN-2023 11:44
InstruID : SV6.i
LabSampID : 14DXICAL-0.05

2-Fluorobiphenyl (321-60-8)

Reason Code:

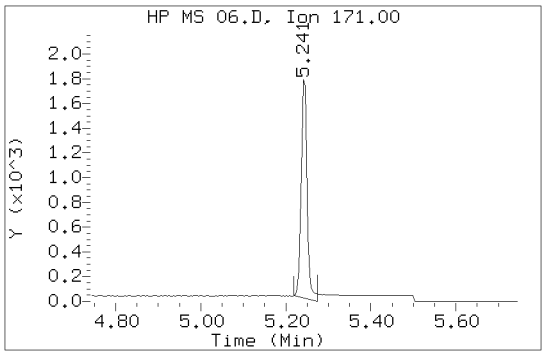
BEFORE

MASS
171
AREA
1727
HEIGHT
1764
16-Jun-2023
11:59
ALSHS
Server



AFTER

MASS
171
AREA
1727
HEIGHT
1764
29-Jun-2023
14:26
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Lab Smp Id: 14DXICAL-0.08 Client Smp ID: 14DXICAL-0.08
Inj Date : 16-JUN-2023 12:02
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 11:44 Cal File: 06.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	4590	0.10000	(a)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	15619	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	4012	0.08000	0.08496(M)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	9075	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	7759	0.08000	0.08348
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	18261	0.10000	
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	12097	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	7185	0.08000	0.08138(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	10759	0.10000	(M)
1 1,4-Dioxane	58	1.482	1.482	(0.474)	1283	0.08000	0.08298(QH)

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.
H - Operator selected an alternate compound hit.

01251531

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D

Date : 16-JUN-2023 12:02

Client ID: 14DXICAL-0.08

Instrument: SV6.i

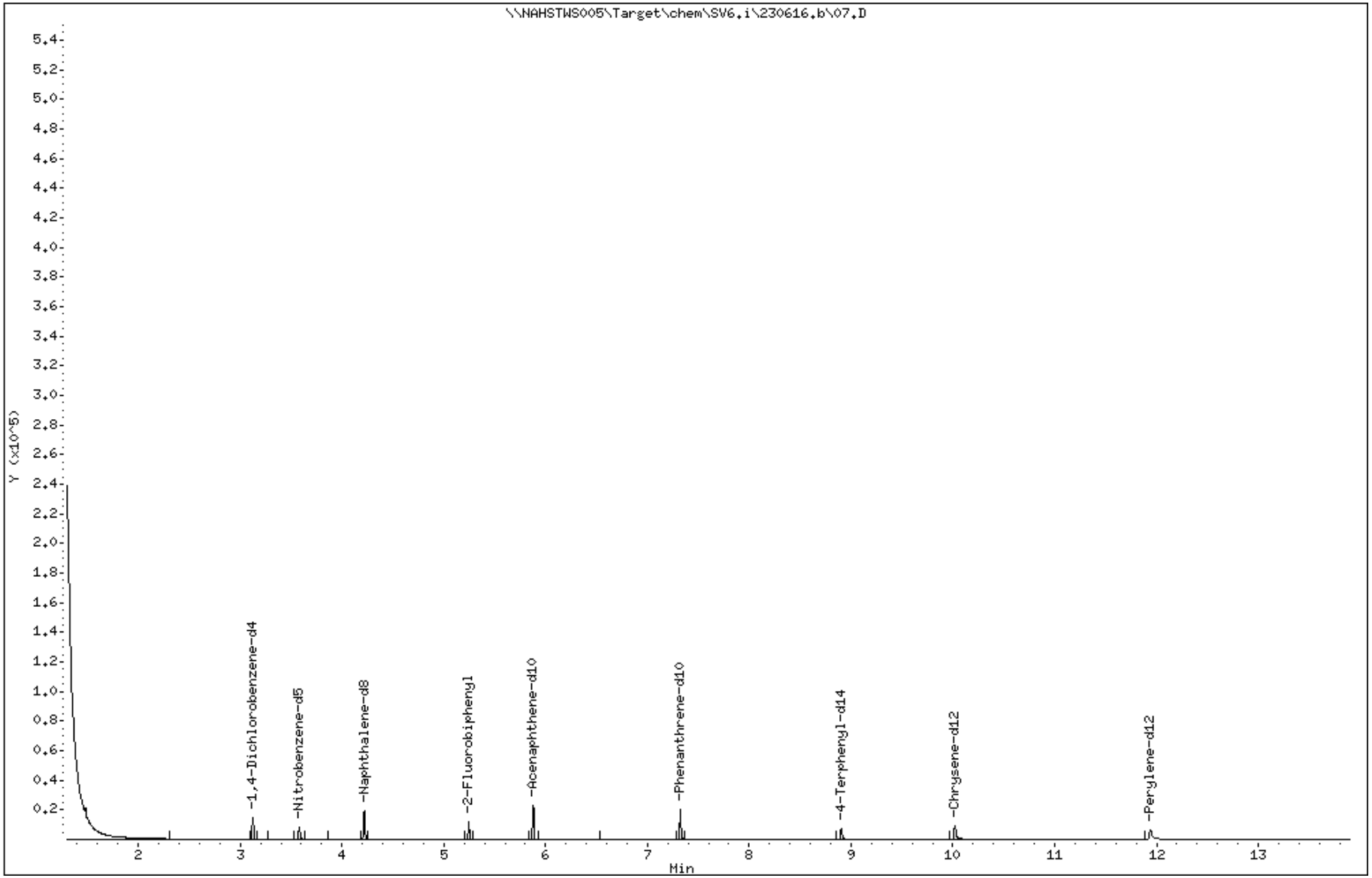
Sample Info: 14DXICAL-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



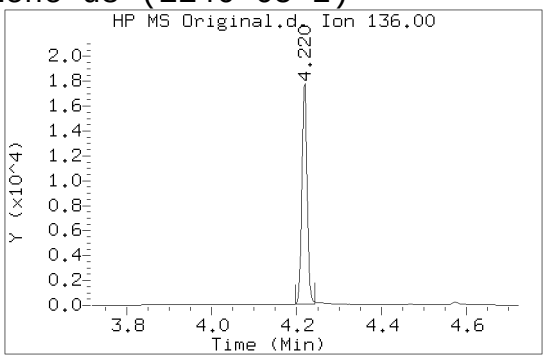
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

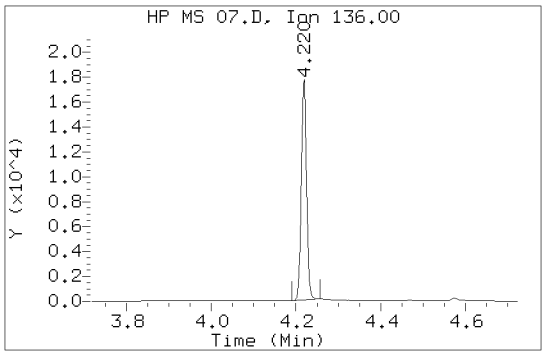
BEFORE

MASS
136
AREA
15744
HEIGHT
17718
16-Jun-2023
12:18
ALSHS
Server



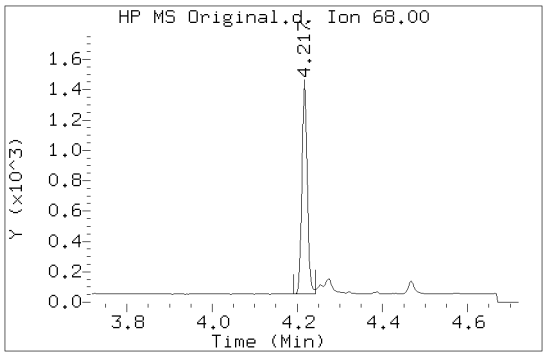
AFTER

MASS
136
AREA
15619
HEIGHT
17670
29-Jun-2023
14:26
ALSHS
Ser



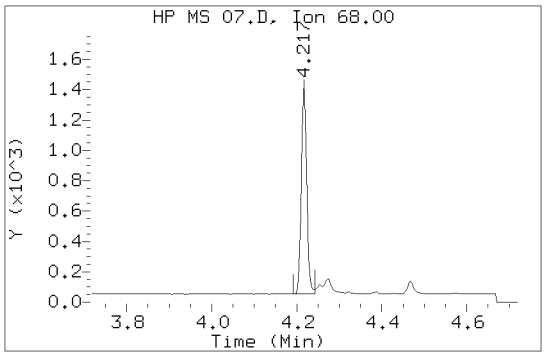
BEFORE

MASS
68
AREA
1209
HEIGHT
1411
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
68
AREA
1209
HEIGHT
1411
29-Jun-2023
14:26
ALSHS
Ser

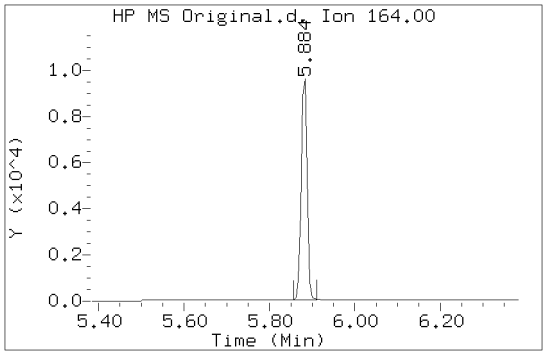


Acenaphthene-d10 (15067-26-2)

Reason Code:

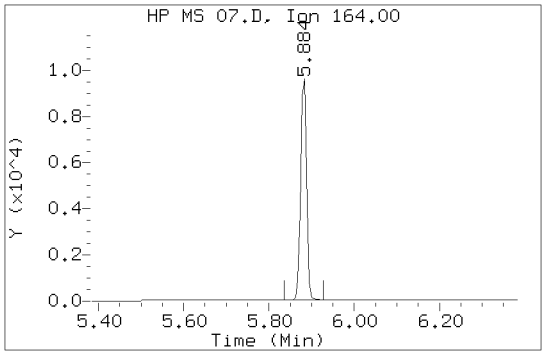
BEFORE

MASS
164
AREA
9060
HEIGHT
9568
16-Jun-2023
12:18
ALSHS
Server



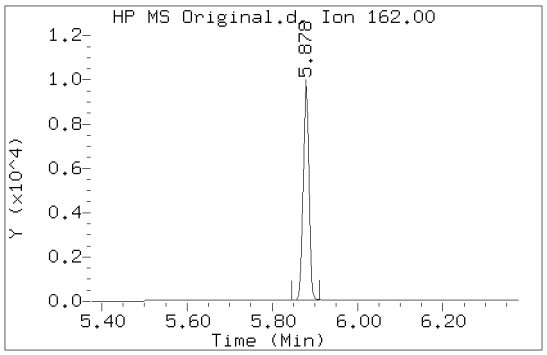
AFTER

MASS
164
AREA
9075
HEIGHT
9571
29-Jun-2023
14:26
ALSHS
Ser



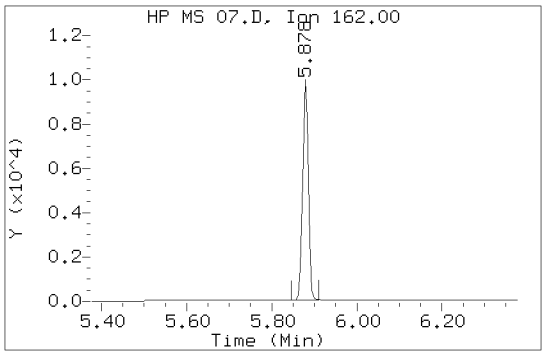
BEFORE

MASS
162
AREA
9173
HEIGHT
9961
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
162
AREA
9173
HEIGHT
9961
29-Jun-2023
14:26
ALSHS
Ser



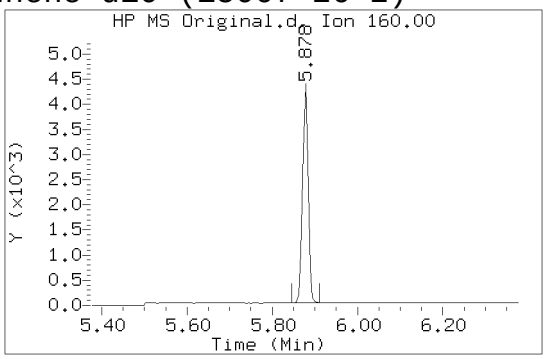
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Acenaphthene-d10 (15067-26-2)

Reason Code:

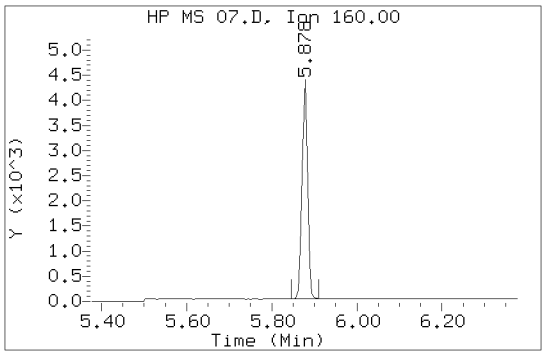
BEFORE

MASS
160
AREA
3928
HEIGHT
4365
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
160
AREA
3928
HEIGHT
4365
29-Jun-2023
14:26
ALSHS
Ser

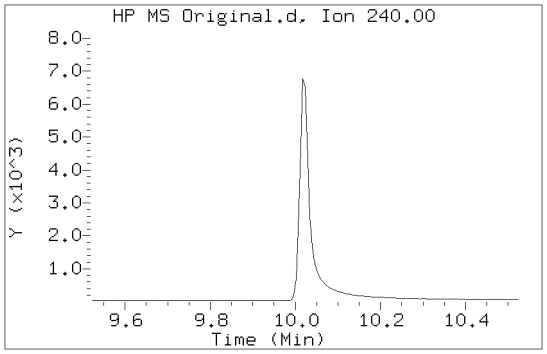


Chrysene-d12 (1719-03-5)

Reason Code:

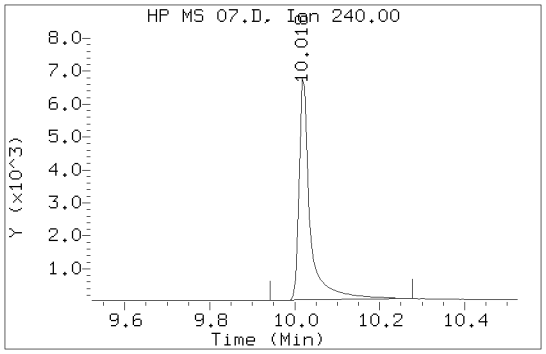
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



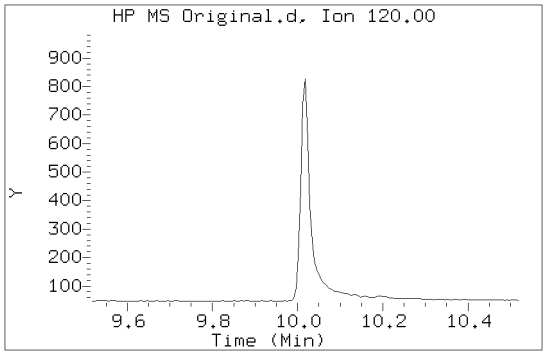
AFTER

MASS
240
AREA
12097
HEIGHT
6713
29-Jun-2023
14:26
ALSHS
Ser



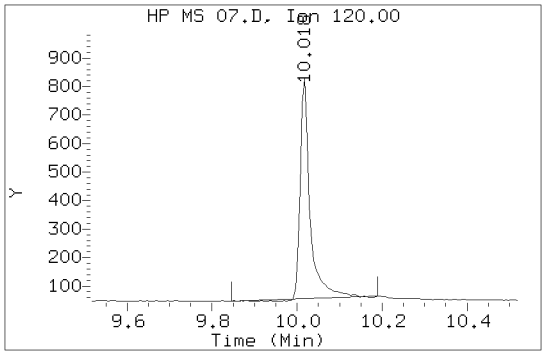
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



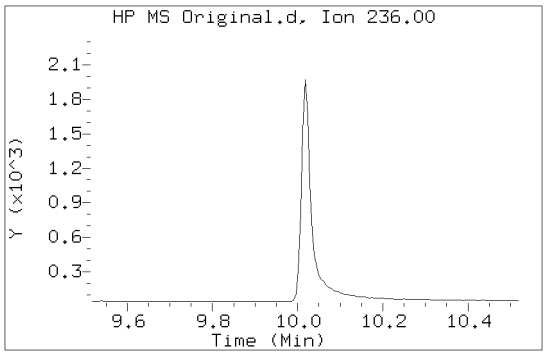
AFTER

MASS
120
AREA
1207
HEIGHT
771
29-Jun-2023
14:26
ALSHS
Ser



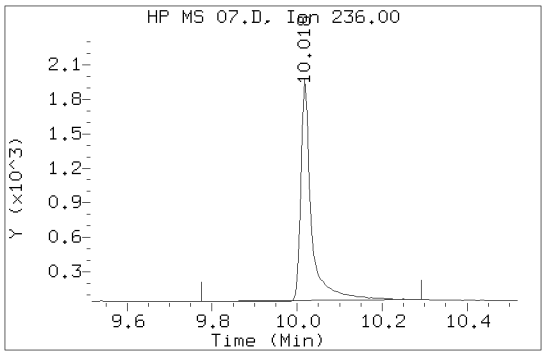
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
236
AREA
3279
HEIGHT
1919
29-Jun-2023
14:26
ALSHS
Ser



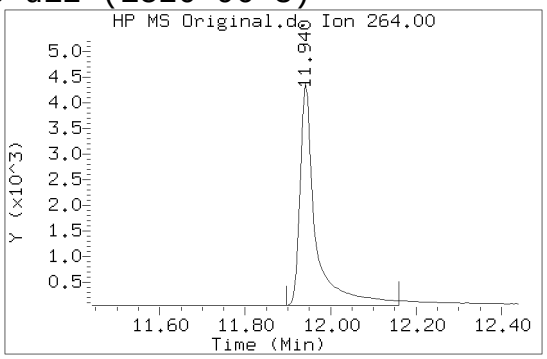
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Perylene-d12 (1520-96-3)

Reason Code:

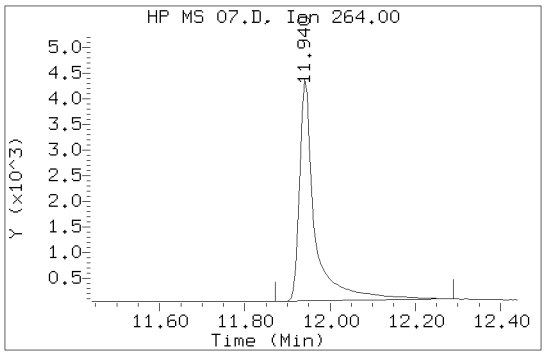
BEFORE

MASS
264
AREA
10879
HEIGHT
4324
16-Jun-2023
12:18
ALSHS
Server



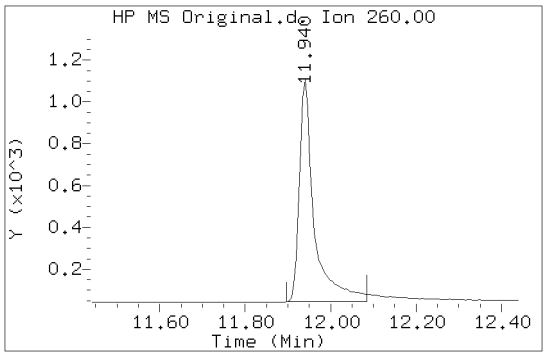
AFTER

MASS
264
AREA
10759
HEIGHT
4317
29-Jun-2023
14:26
ALSHS
Ser



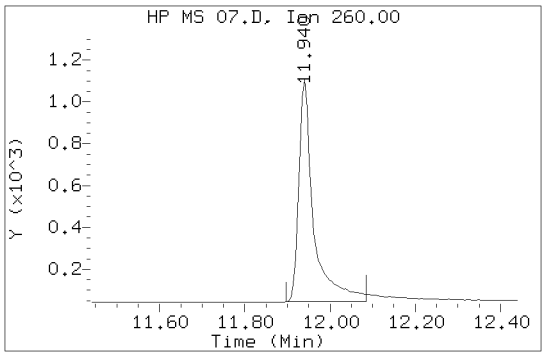
BEFORE

MASS
260
AREA
2559
HEIGHT
1060
16-Jun-2023
12:18
ALSHS
Server



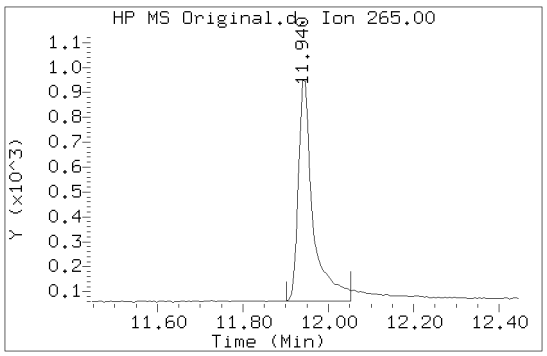
AFTER

MASS
260
AREA
2559
HEIGHT
1060
29-Jun-2023
14:26
ALSHS
Ser



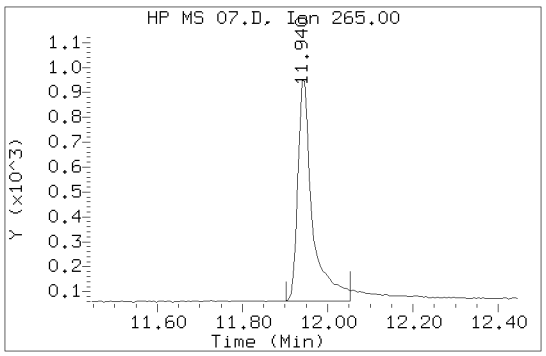
BEFORE

MASS
265
AREA
2115
HEIGHT
884
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
265
AREA
2115
HEIGHT
884
29-Jun-2023
14:26
ALSHS
Ser

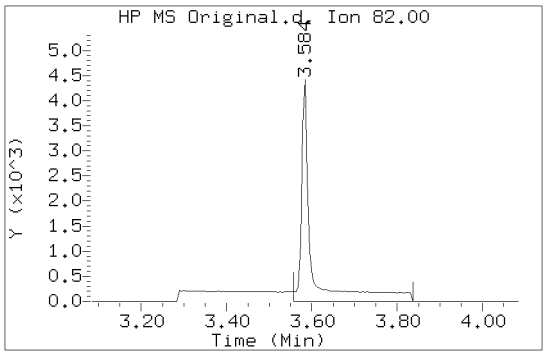


Nitrobenzene-d5 (4165-60-0)

Reason Code:

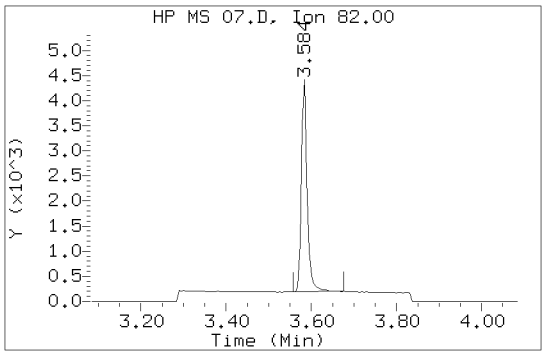
BEFORE

MASS
82
AREA
7140
HEIGHT
4418
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
82
AREA
4012
HEIGHT
4226
29-Jun-2023
14:26
ALSHS
Ser



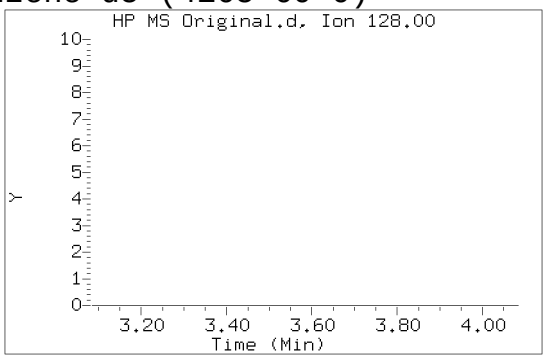
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

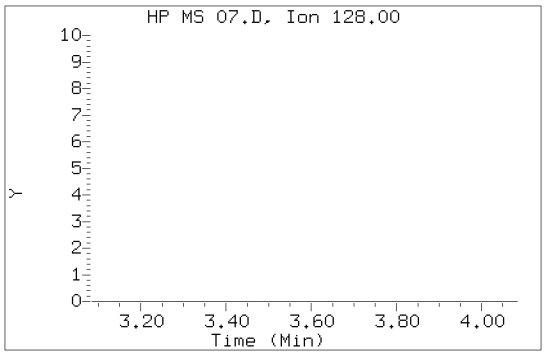
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



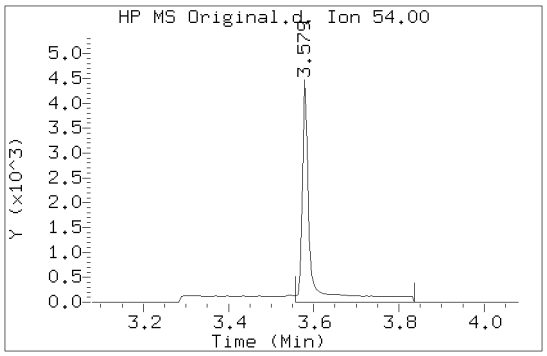
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:26
ALSHS
Ser



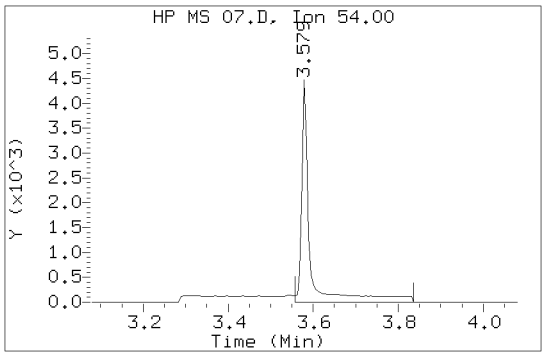
BEFORE

MASS
54
AREA
6137
HEIGHT
4470
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
54
AREA
6137
HEIGHT
4470
29-Jun-2023
14:26
ALSHS
Ser

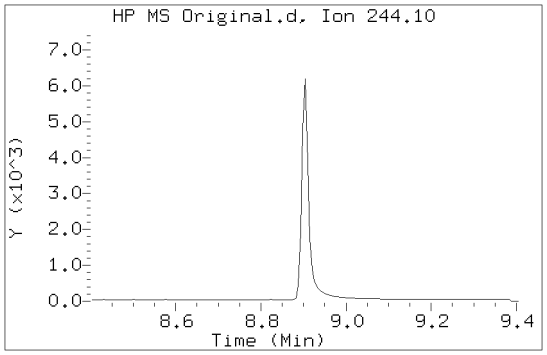


4-Terphenyl-d14 (1718-51-0)

Reason Code:

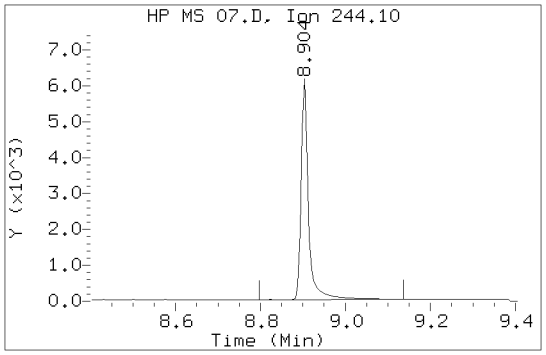
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



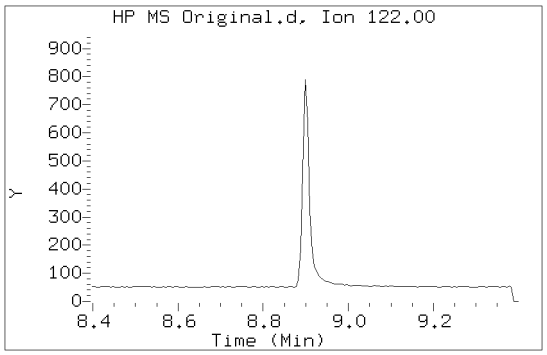
AFTER

MASS
244.1
AREA
7185
HEIGHT
6143
29-Jun-2023
14:26
ALSHS
Ser



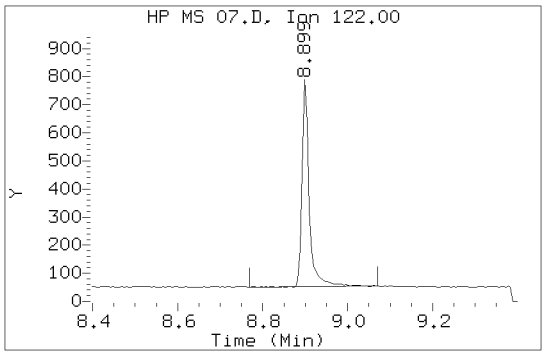
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
122
AREA
850
HEIGHT
736
29-Jun-2023
14:26
ALSHS
Ser



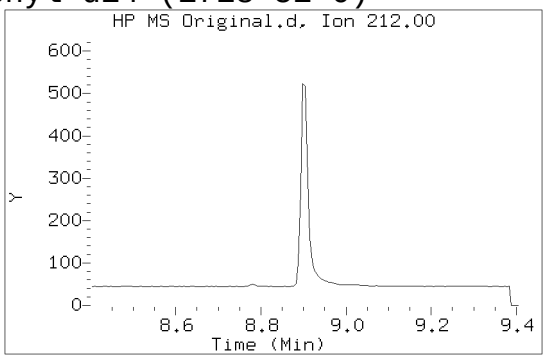
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\07.D
Inj Date : 16-JUN-2023 12:02
InstruID : SV6.i
LabSampID : 14DXICAL-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

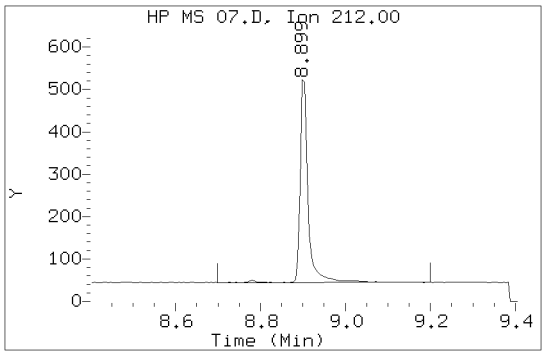
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:18
ALSHS
Server



AFTER

MASS
212
AREA
622
HEIGHT
478
29-Jun-2023
14:26
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Lab Smp Id: 14DXICAL-0.15 Client Smp ID: 14DXICAL-0.15
Inj Date : 16-JUN-2023 12:38
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:20 Cal File: 08.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	3901	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13349	0.10000	
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	6134	0.15000	0.1520(AQM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7708	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	11636	0.15000	0.1474
* 126 Phenanthrene-d10	188	7.323	7.323	(1.000)	15157	0.10000	
* 182 Chrysene-d12	240	10.018	10.018	(1.000)	10131	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	10881	0.15000	0.1472(M)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	7987	0.10000	(M)
1 1,4-Dioxane	58	1.464	1.464	(0.468)	1980	0.15000	0.1507(QH)

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.
H - Operator selected an alternate compound hit.

01251539

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D

Date : 16-JUN-2023 12:38

Client ID: 14DXICAL-0.15

Instrument: SV6.i

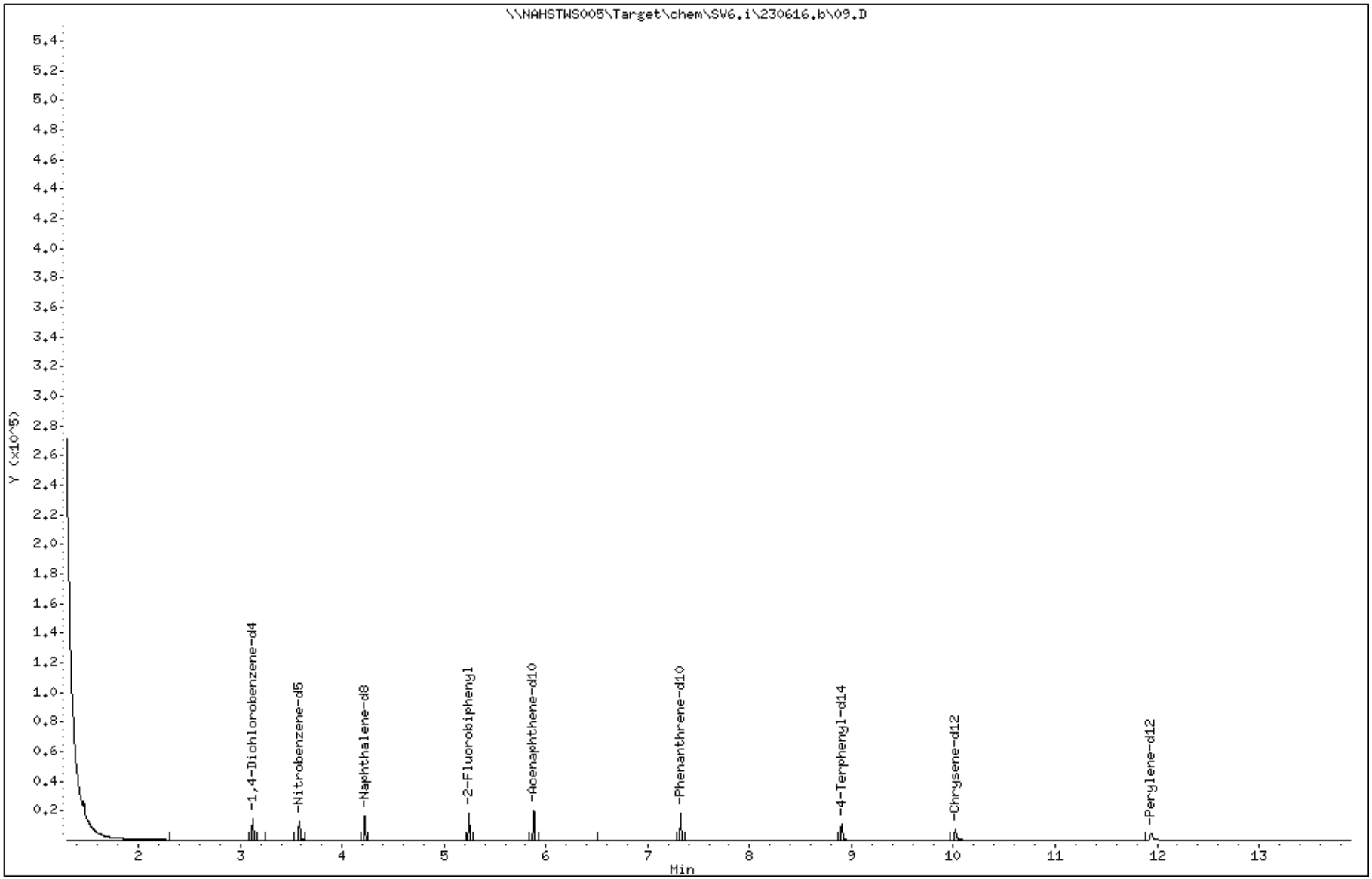
Sample Info: 14DXICAL-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



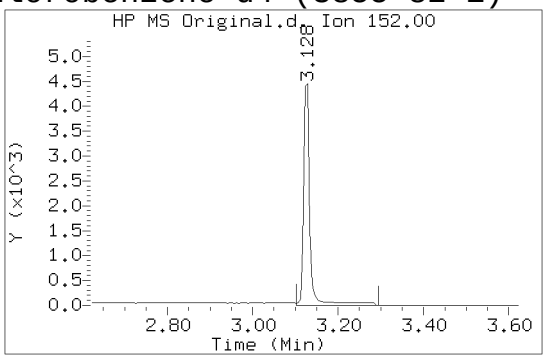
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

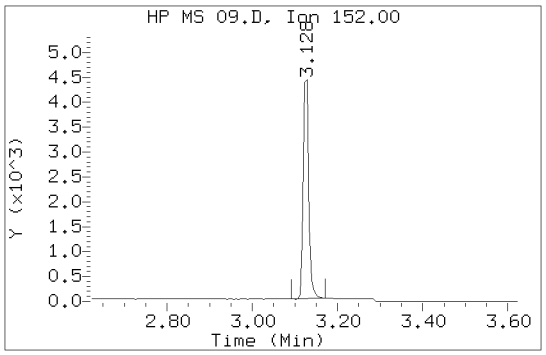
BEFORE

MASS
152
AREA
4505
HEIGHT
4453
16-Jun-2023
12:57
ALSHS
Server



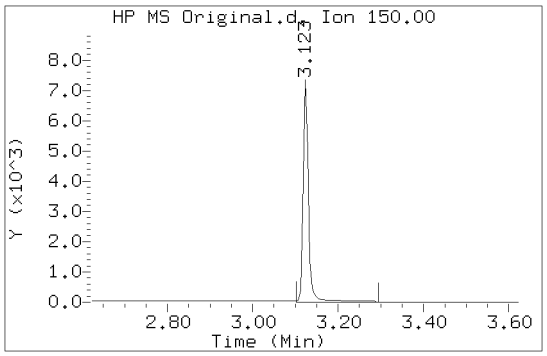
AFTER

MASS
152
AREA
3901
HEIGHT
4398
29-Jun-2023
14:27
ALSHS
Ser



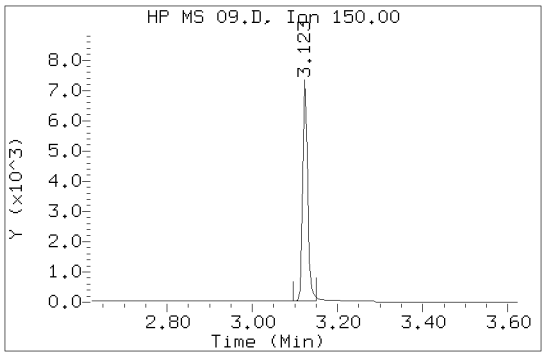
BEFORE

MASS
150
AREA
6326
HEIGHT
7351
16-Jun-2023
12:57
ALSHS
Server



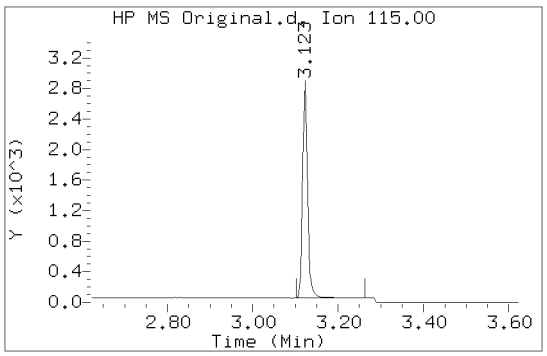
AFTER

MASS
150
AREA
5706
HEIGHT
7305
29-Jun-2023
14:27
ALSHS
Ser



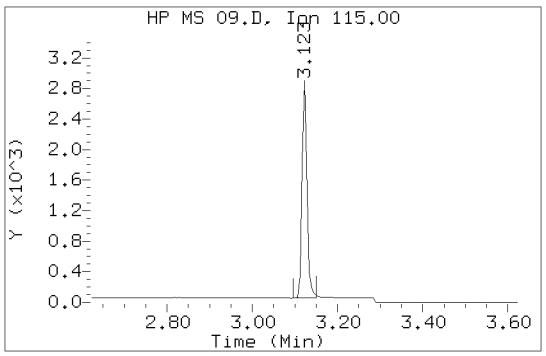
BEFORE

MASS
115
AREA
2255
HEIGHT
2847
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
115
AREA
2210
HEIGHT
2846
29-Jun-2023
14:27
ALSHS
Ser

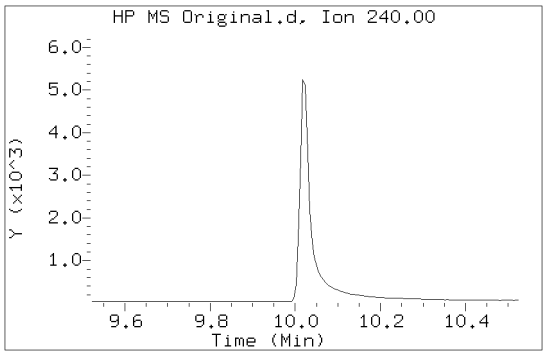


Chrysene-d12 (1719-03-5)

Reason Code:

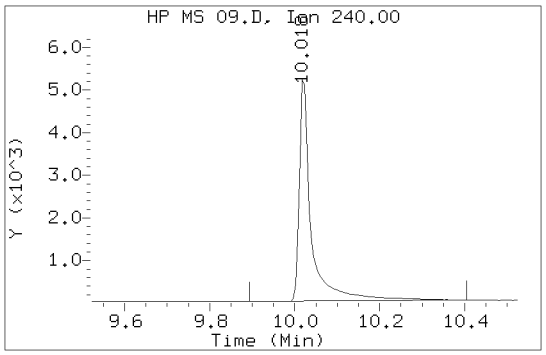
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
240
AREA
10131
HEIGHT
5190
29-Jun-2023
14:27
ALSHS
Ser



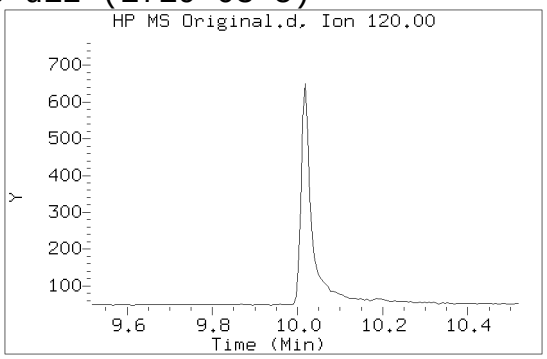
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

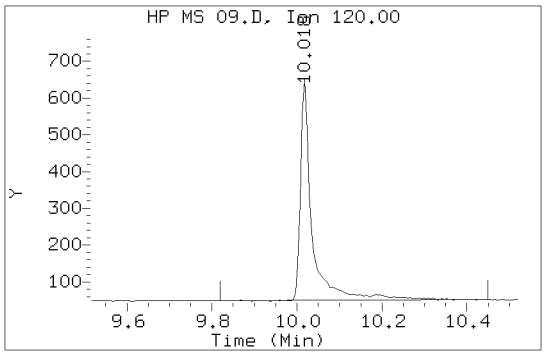
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



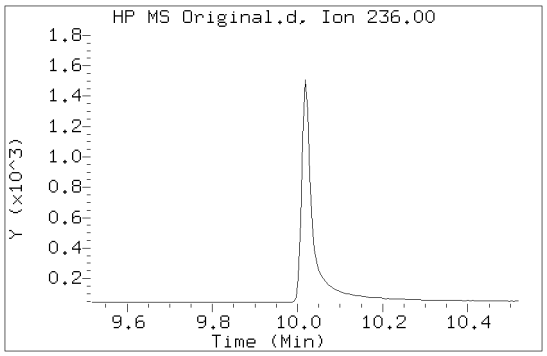
AFTER

MASS
120
AREA
1131
HEIGHT
600
29-Jun-2023
14:27
ALSHS
Ser



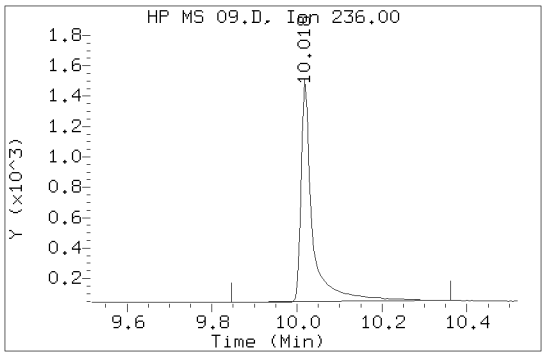
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
236
AREA
2695
HEIGHT
1458
29-Jun-2023
14:27
ALSHS
Ser

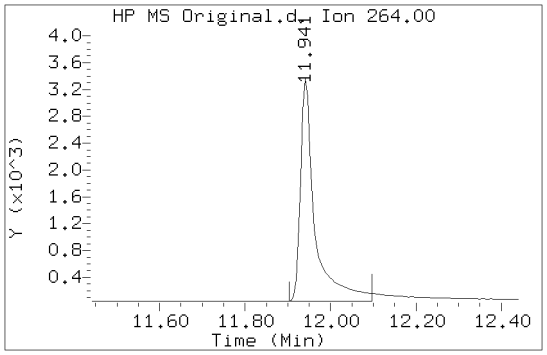


Perylene-d12 (1520-96-3)

Reason Code:

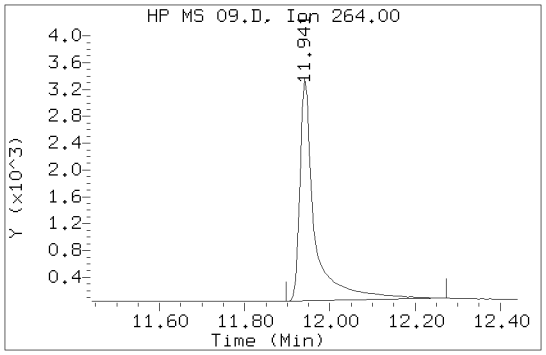
BEFORE

MASS
264
AREA
7735
HEIGHT
3310
16-Jun-2023
12:57
ALSHS
Server



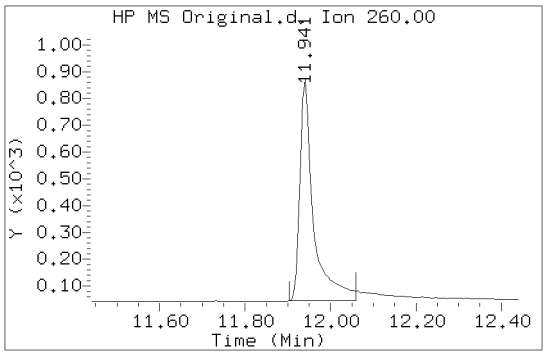
AFTER

MASS
264
AREA
7987
HEIGHT
3307
29-Jun-2023
14:27
ALSHS
Ser



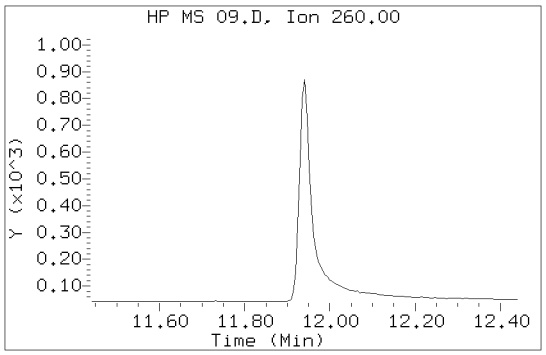
BEFORE

MASS
260
AREA
1816
HEIGHT
824
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
260
AREA
2012
HEIGHT
823
29-Jun-2023
14:27
ALSHS
Ser



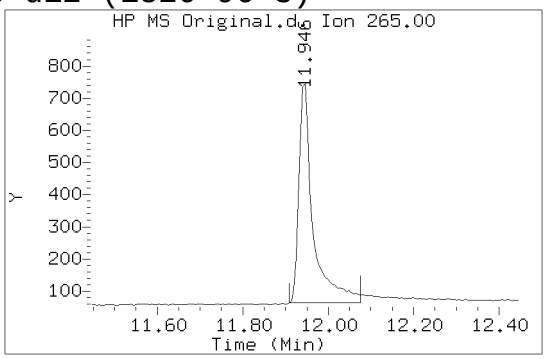
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

Perylene-d12 (1520-96-3)

Reason Code:

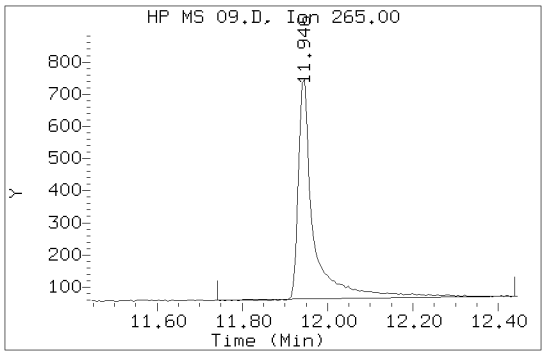
BEFORE

MASS
265
AREA
1571
HEIGHT
682
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
265
AREA
1706
HEIGHT
682
29-Jun-2023
14:27
ALSHS
Ser

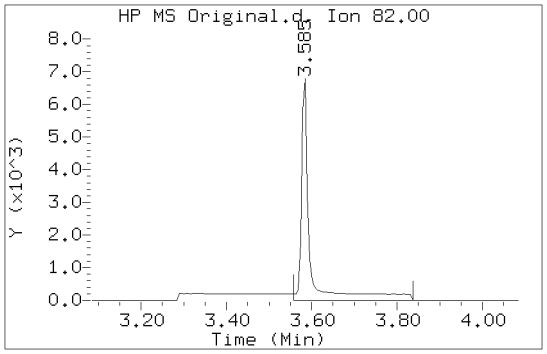


Nitrobenzene-d5 (4165-60-0)

Reason Code:

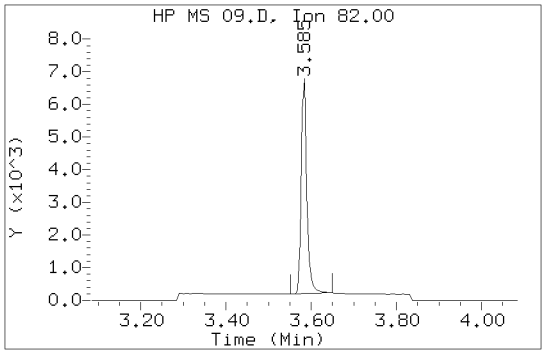
BEFORE

MASS
82
AREA
9487
HEIGHT
6787
16-Jun-2023
12:57
ALSHS
Server



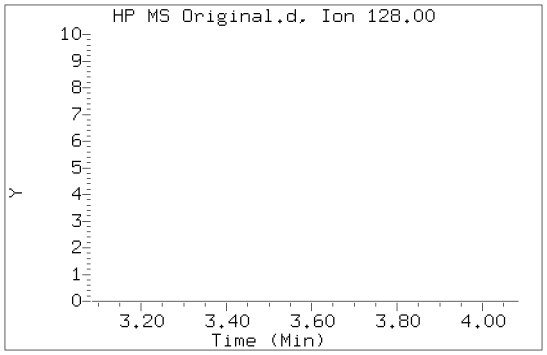
AFTER

MASS
82
AREA
6134
HEIGHT
6582
29-Jun-2023
14:27
ALSHS
Ser



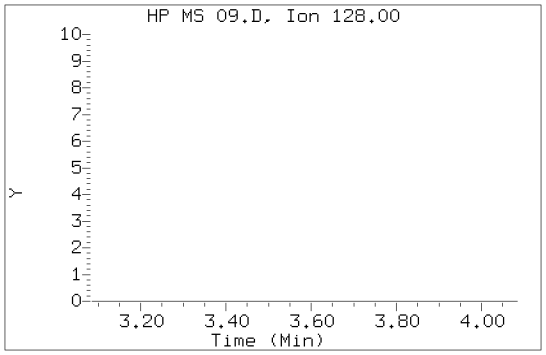
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



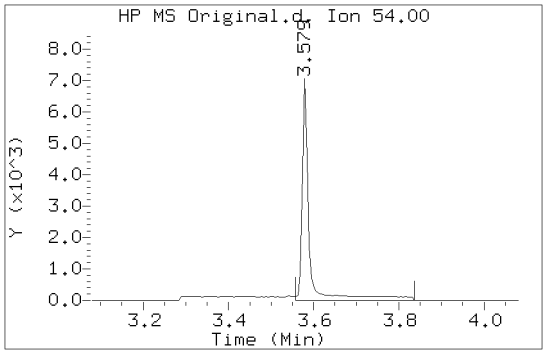
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



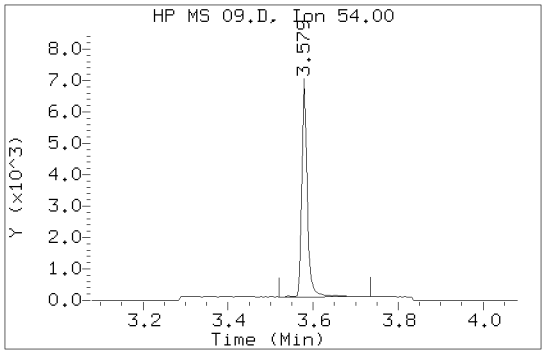
BEFORE

MASS
54
AREA
8200
HEIGHT
7059
16-Jun-2023
12:57
ALSHS
Server



AFTER

MASS
54
AREA
6294
HEIGHT
6945
29-Jun-2023
14:27
ALSHS
Ser

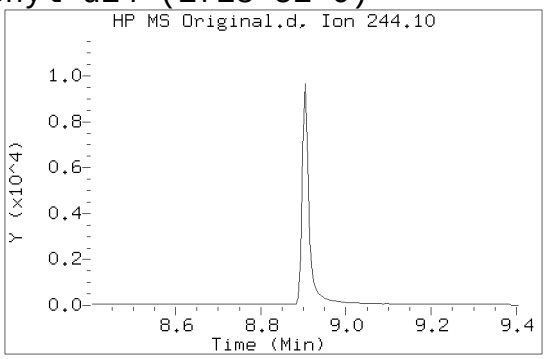


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\09.D
Inj Date : 16-JUN-2023 12:38
InstruID : SV6.i
LabSampID : 14DXICAL-0.15

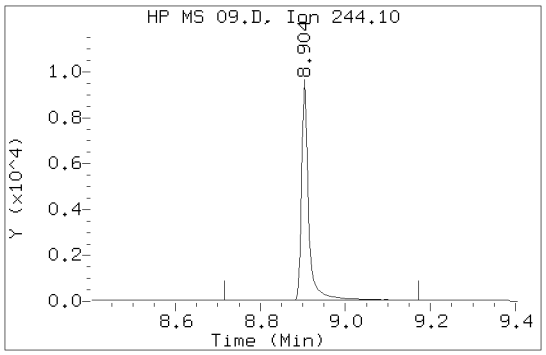
4-Terphenyl-d14 (1718-51-0)

Reason Code:

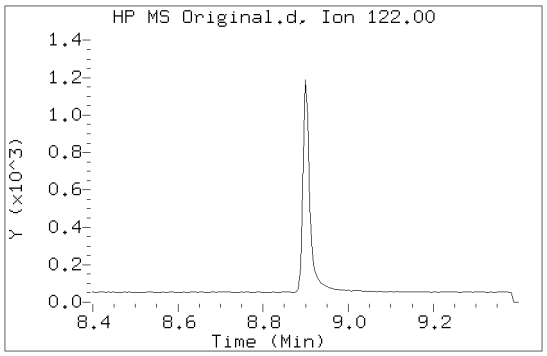
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



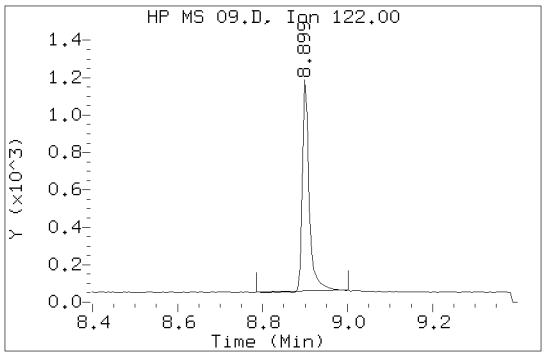
AFTER
MASS
244.1
AREA
10881
HEIGHT
9614
29-Jun-2023
14:27
ALSHS
Ser



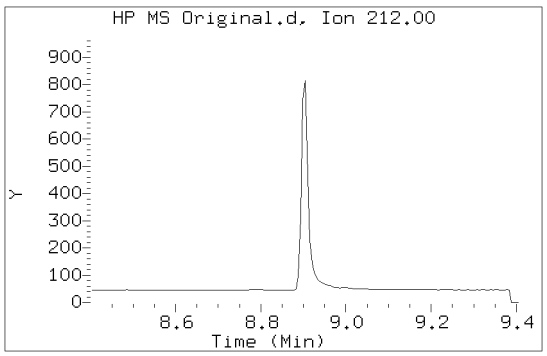
BEFORE
MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



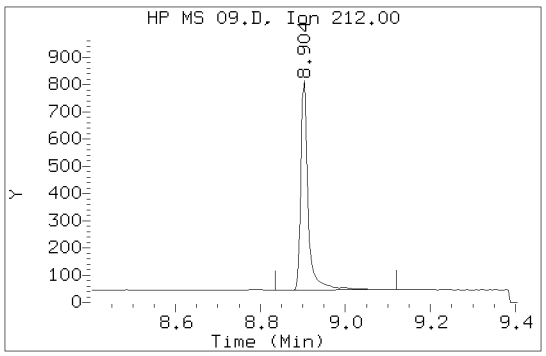
AFTER
MASS
122
AREA
1222
HEIGHT
1128
29-Jun-2023
14:27
ALSHS
Ser



BEFORE
MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
12:57
ALSHS
Server



AFTER
MASS
212
AREA
918
HEIGHT
769
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Lab Smp Id: 14DXICAL-0.1 Client Smp ID: 14DXICAL-0.1
Inj Date : 16-JUN-2023 14:15
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.1
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 15:48 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
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	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	3.128	3.128	(1.000)	4026	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13383	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	4123	0.10000	0.1019(QM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7945	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.248	5.248	(0.892)	7708	0.10000	0.09473(M)
* 126 Phenanthrene-d10	188	7.328	7.328	(1.000)	15519	0.10000	(M)
* 182 Chrysene-d12	240	10.028	10.028	(1.000)	9988	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.909	(0.888)	7529	0.10000	0.1033(M)
* 198 Perylene-d12	264	11.946	11.946	(1.000)	8963	0.10000	(M)
1 1,4-Dioxane	58	1.471	1.471	(0.470)	1445	0.10000	0.1066(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.

01251545

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D

Date : 16-JUN-2023 14:15

Client ID: 14DXICAL-0.1

Instrument: SV6.i

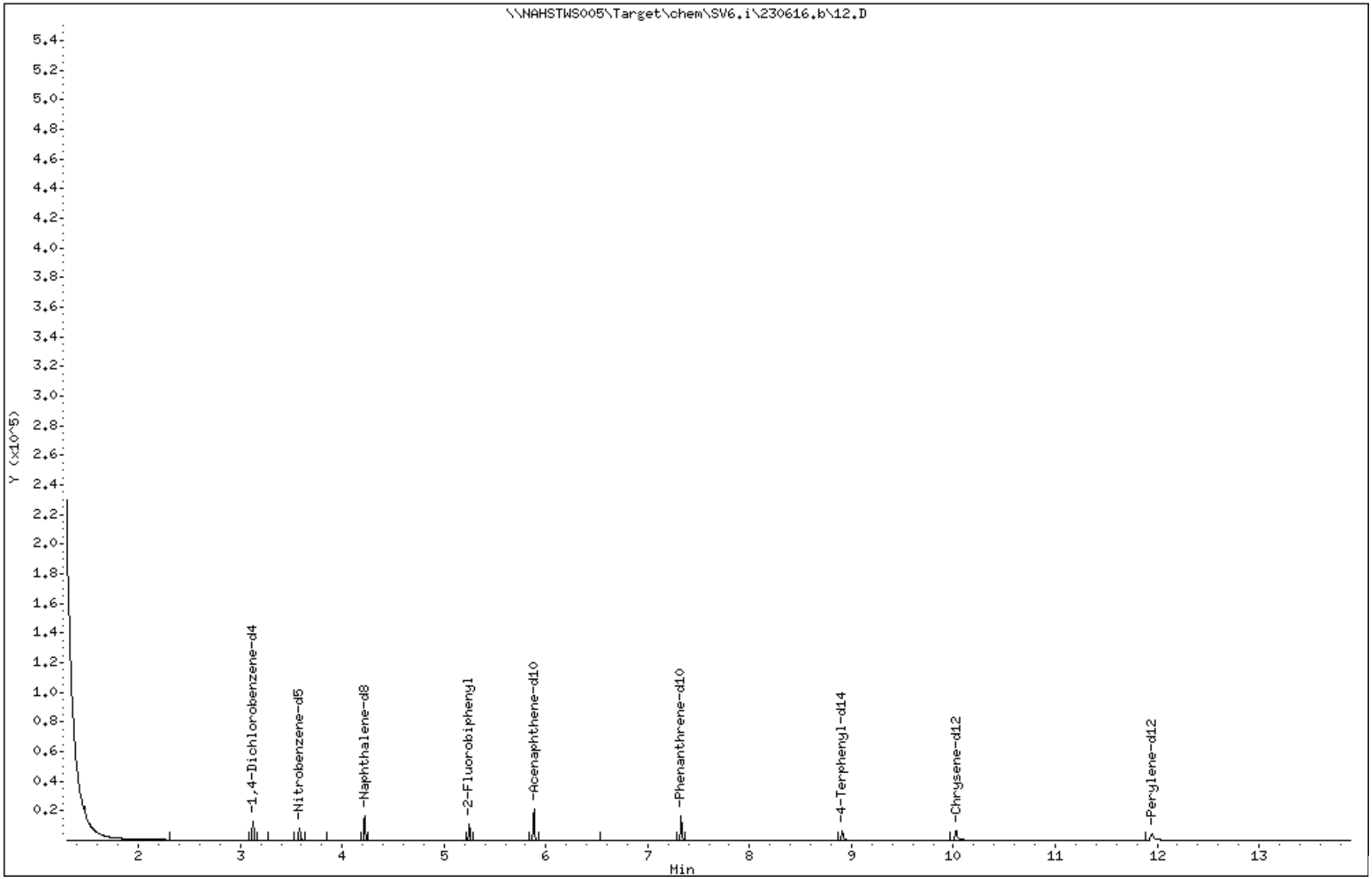
Sample Info: 14DXICAL-0.1

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

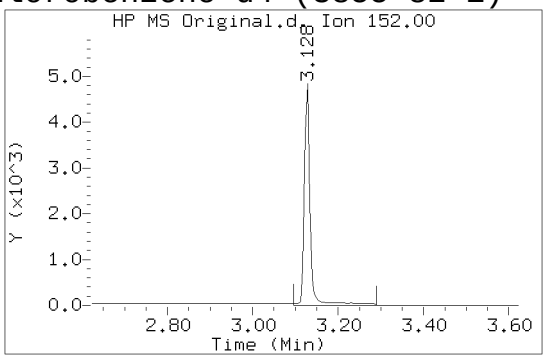


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

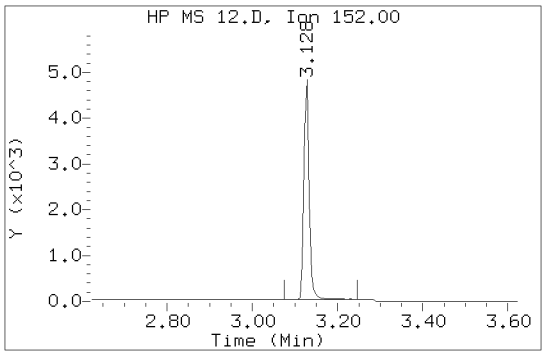
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

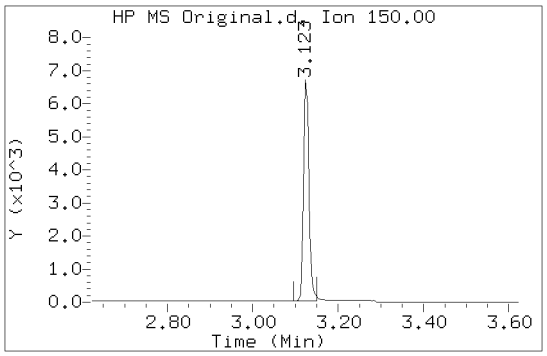
BEFORE
MASS
152
AREA
4570
HEIGHT
4842
16-Jun-2023
14:59
jiayi
lu



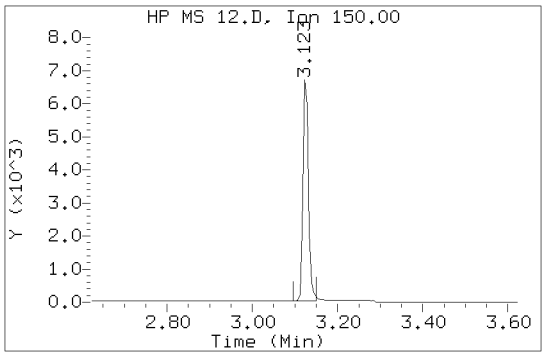
AFTER
MASS
152
AREA
4026
HEIGHT
4796
29-Jun-2023
15:48



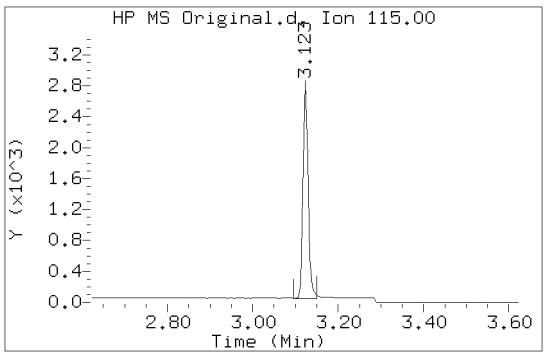
BEFORE
MASS
150
AREA
5752
HEIGHT
6676
16-Jun-2023
14:59
jiayi
lu



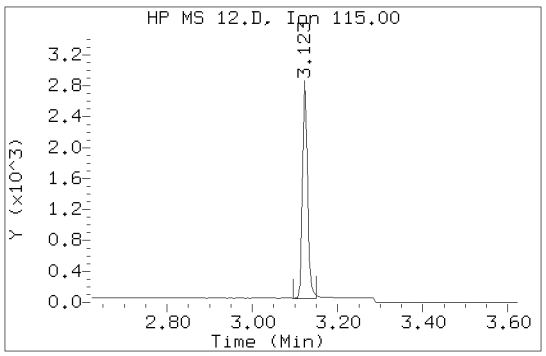
AFTER
MASS
150
AREA
5752
HEIGHT
6676
29-Jun-2023
15:48



BEFORE
MASS
115
AREA
2249
HEIGHT
2814
16-Jun-2023
14:59
jiayi
lu



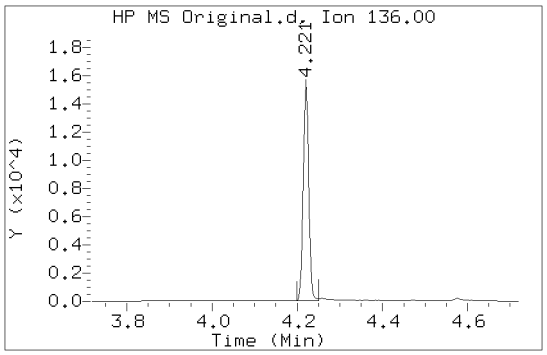
AFTER
MASS
115
AREA
2249
HEIGHT
2814
29-Jun-2023
15:48



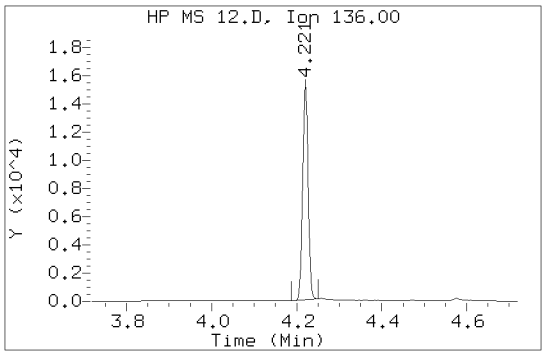
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
13619
HEIGHT
15676
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
136
AREA
13383
HEIGHT
15614
29-Jun-2023
15:48



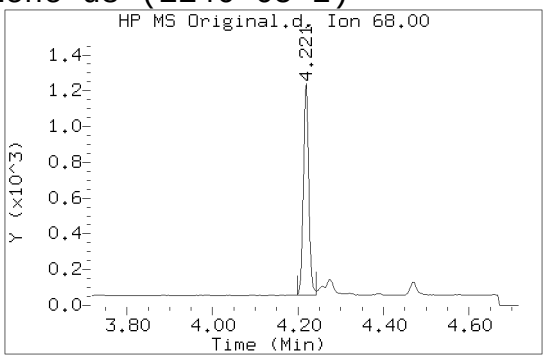
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Naphthalene-d8 (1146-65-2)

Reason Code:

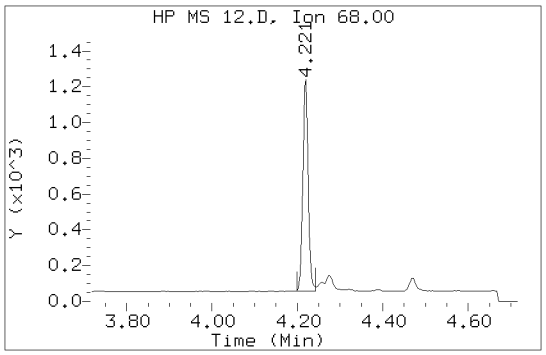
BEFORE

MASS
68
AREA
1062
HEIGHT
1182
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
68
AREA
1062
HEIGHT
1182
29-Jun-2023
15:48

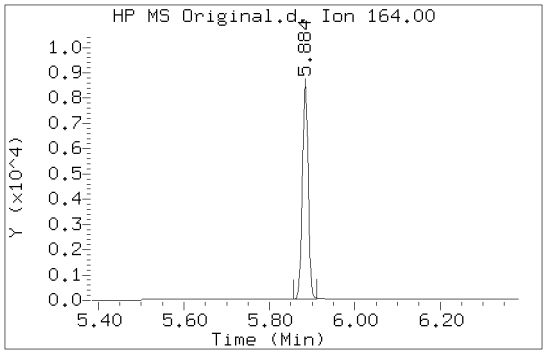


Acenaphthene-d10 (15067-26-2)

Reason Code:

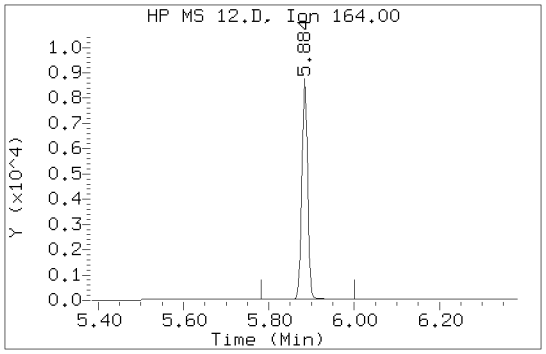
BEFORE

MASS
164
AREA
7893
HEIGHT
8717
16-Jun-2023
14:59
jiayi
lu



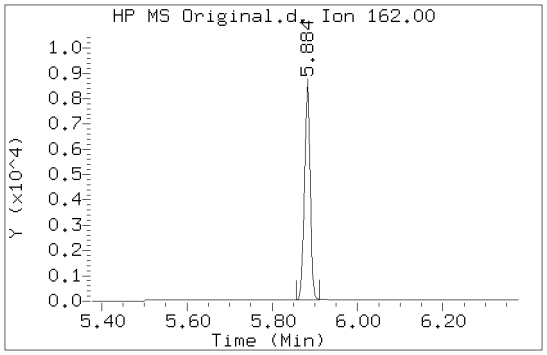
AFTER

MASS
164
AREA
7945
HEIGHT
8719
29-Jun-2023
15:48



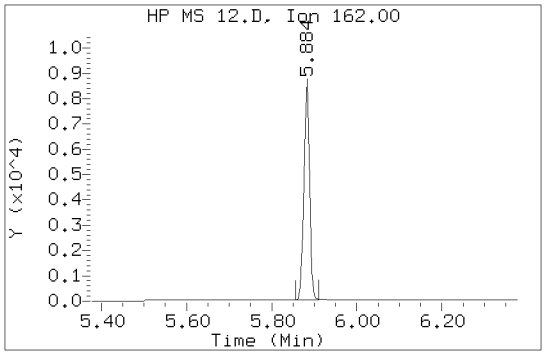
BEFORE

MASS
162
AREA
7978
HEIGHT
8729
16-Jun-2023
14:59
jiayi
lu



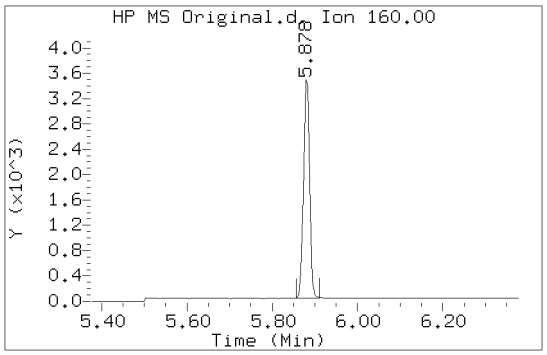
AFTER

MASS
162
AREA
7978
HEIGHT
8729
29-Jun-2023
15:48



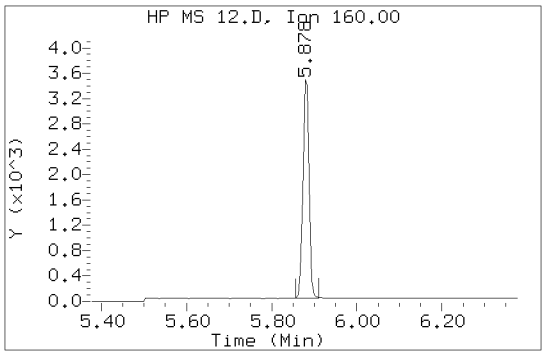
BEFORE

MASS
160
AREA
3420
HEIGHT
3449
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
160
AREA
3420
HEIGHT
3449
29-Jun-2023
15:48

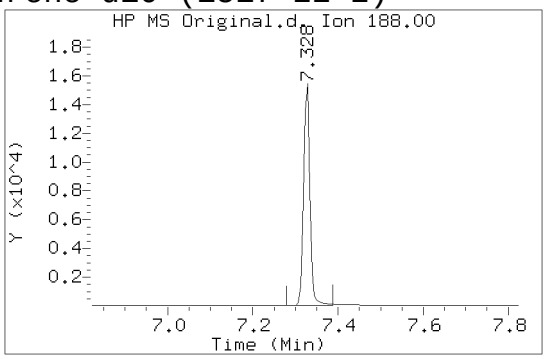


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Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

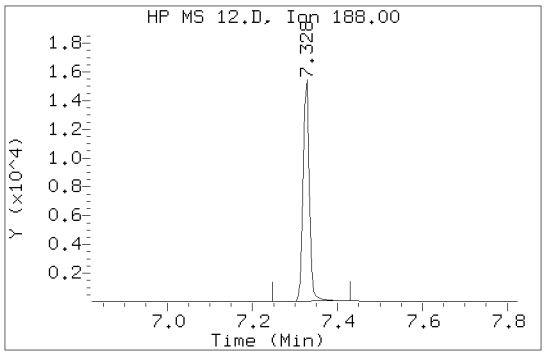
Phenanthrene-d10 (1517-22-2)

Reason Code:

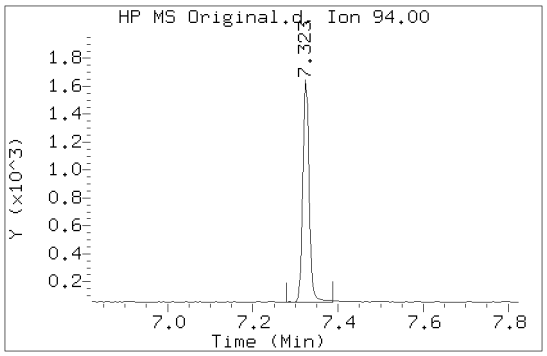
BEFORE
MASS
188
AREA
15580
HEIGHT
15412
16-Jun-2023
14:59
jiayi
lu



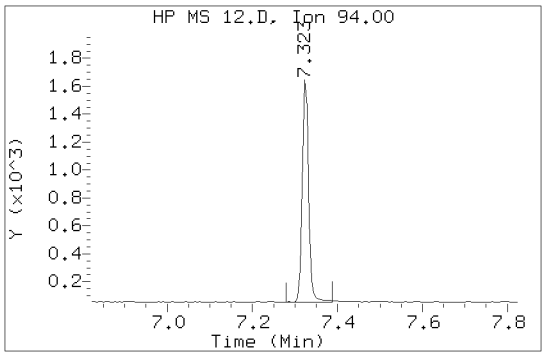
AFTER
MASS
188
AREA
15519
HEIGHT
15398
29-Jun-2023
15:48



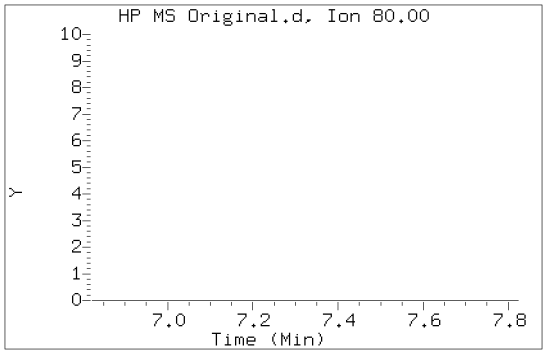
BEFORE
MASS
94
AREA
1615
HEIGHT
1589
16-Jun-2023
14:59
jiayi
lu



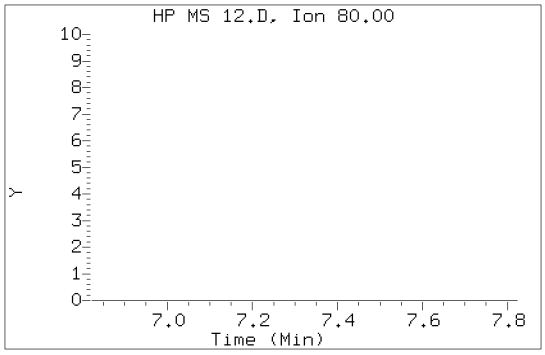
AFTER
MASS
94
AREA
1615
HEIGHT
1589
29-Jun-2023
15:48



BEFORE
MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



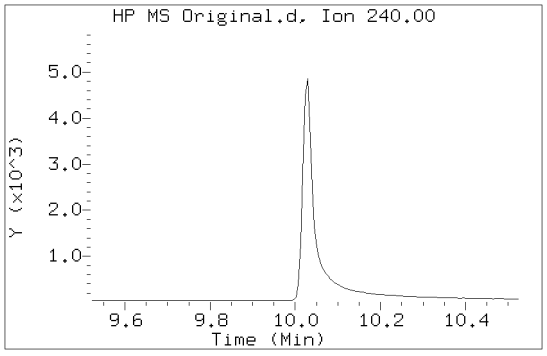
AFTER
MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
15:48



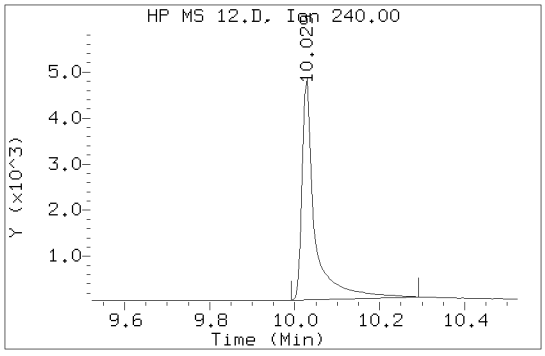
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
240
AREA
9988
HEIGHT
4801
29-Jun-2023
15:48

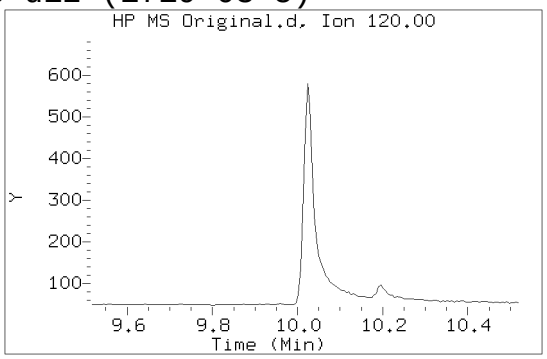


Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\12.D
Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

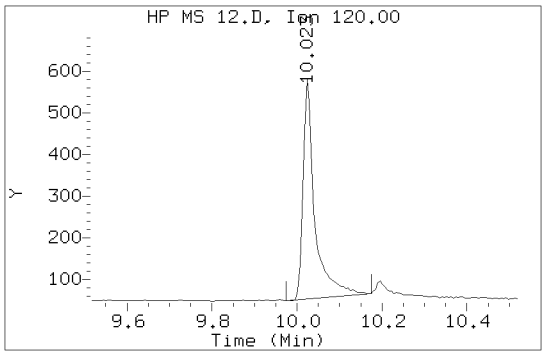
Chrysene-d12 (1719-03-5)

Reason Code:

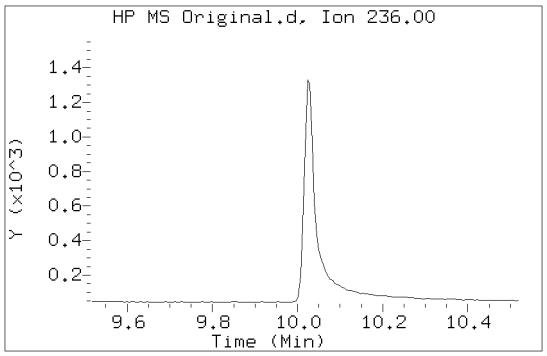
BEFORE
MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



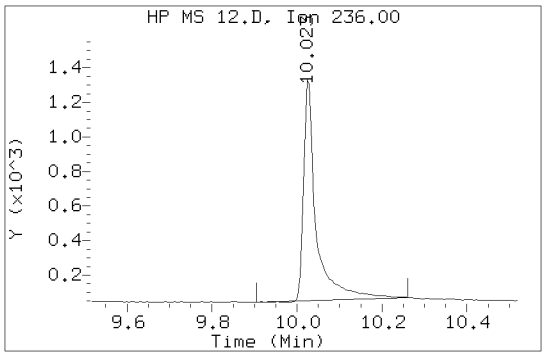
AFTER
MASS
120
AREA
998
HEIGHT
525
29-Jun-2023
15:48



BEFORE
MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



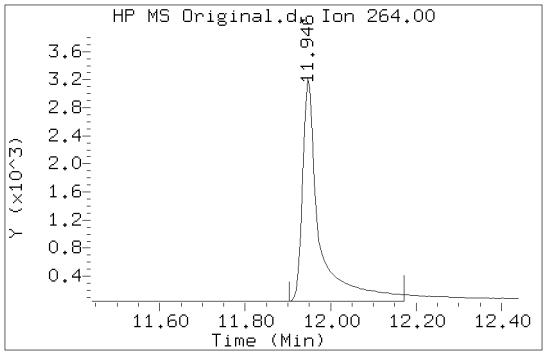
AFTER
MASS
236
AREA
2622
HEIGHT
1277
29-Jun-2023
15:48



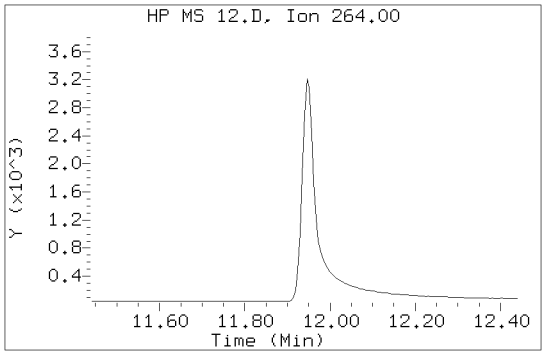
Perylene-d12 (1520-96-3)

Reason Code:

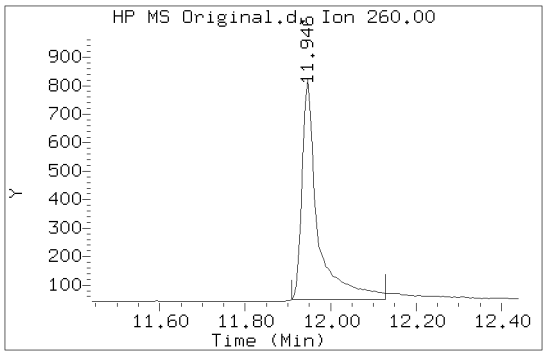
BEFORE
MASS
264
AREA
8613
HEIGHT
3164
16-Jun-2023
14:59
jiayi
lu



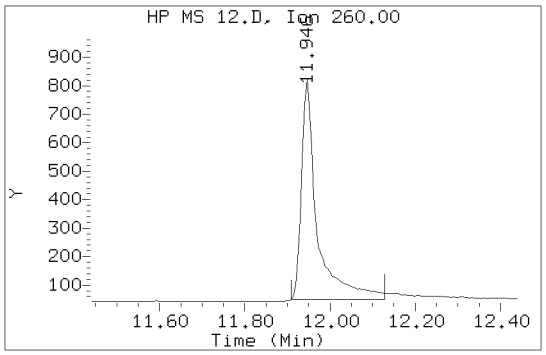
AFTER
MASS
264
AREA
8963
HEIGHT
3161
29-Jun-2023
15:48



BEFORE
MASS
260
AREA
1977
HEIGHT
772
16-Jun-2023
14:59
jiayi
lu



AFTER
MASS
260
AREA
1977
HEIGHT
772
29-Jun-2023
15:48



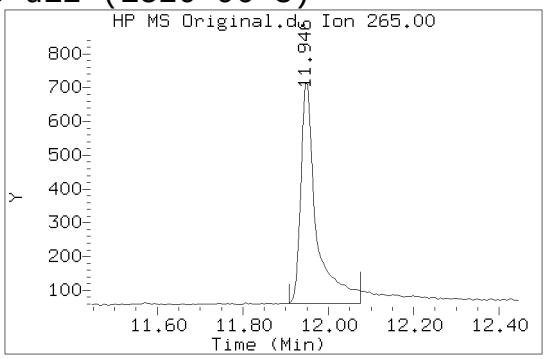
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Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

Perylene-d12 (1520-96-3)

Reason Code:

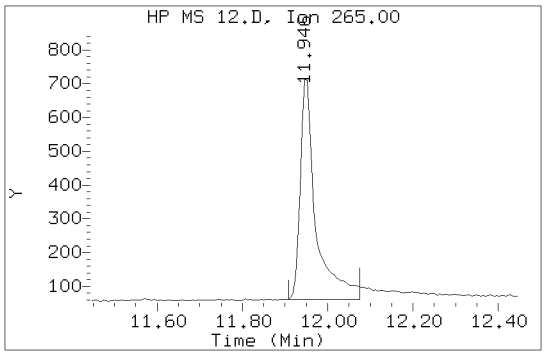
BEFORE

MASS
265
AREA
1666
HEIGHT
651
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
265
AREA
1666
HEIGHT
651
29-Jun-2023
15:48

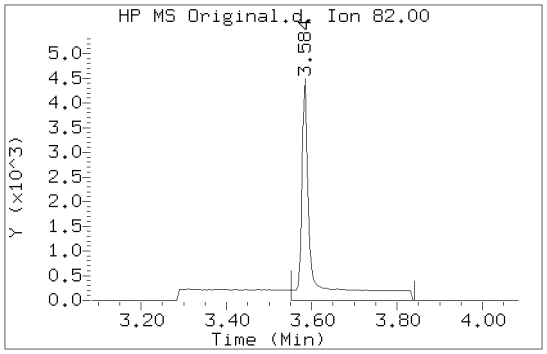


Nitrobenzene-d5 (4165-60-0)

Reason Code:

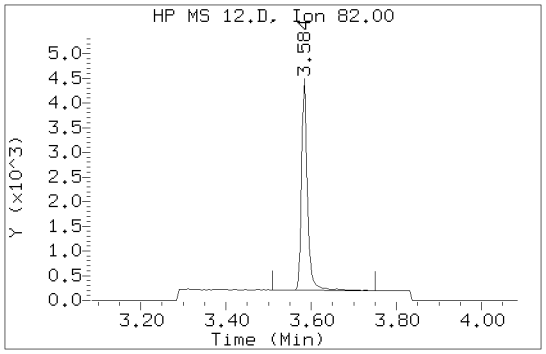
BEFORE

MASS
82
AREA
7524
HEIGHT
4492
16-Jun-2023
14:59
jiayi
lu



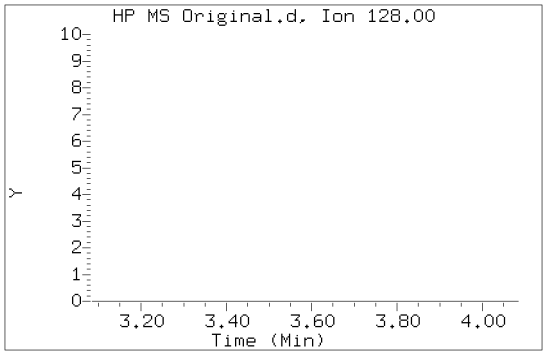
AFTER

MASS
82
AREA
4123
HEIGHT
4285
29-Jun-2023
15:48



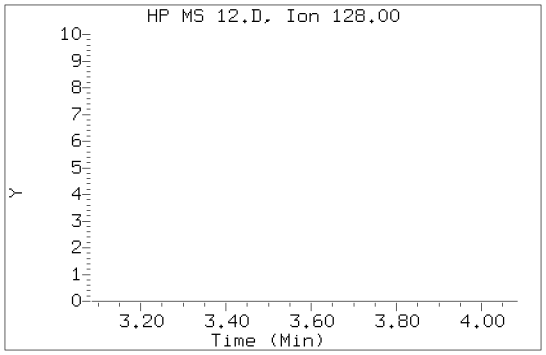
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



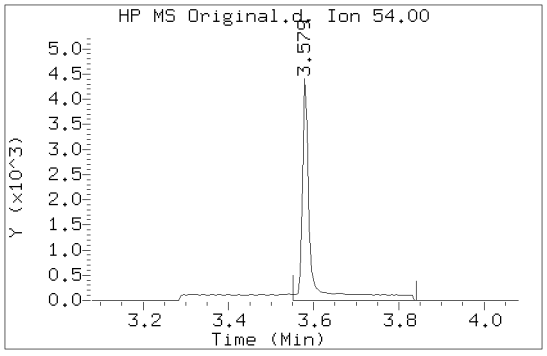
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
15:48



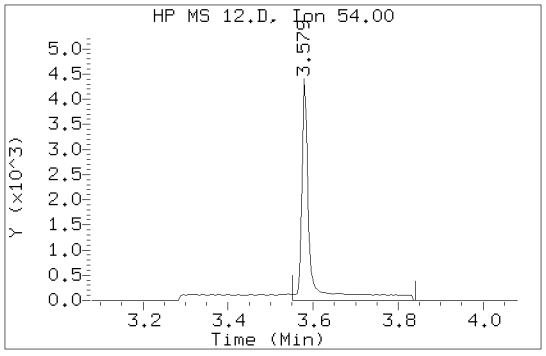
BEFORE

MASS
54
AREA
6015
HEIGHT
4407
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
54
AREA
6015
HEIGHT
4407
29-Jun-2023
15:48



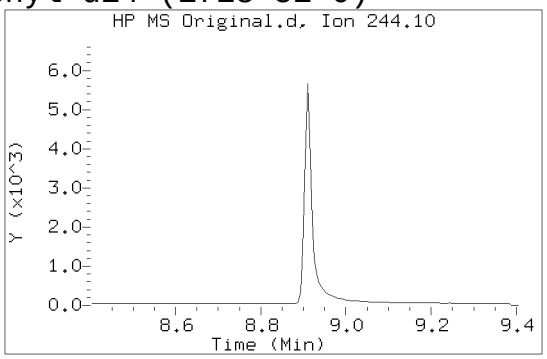
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Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

4-Terphenyl-d14 (1718-51-0)

Reason Code:

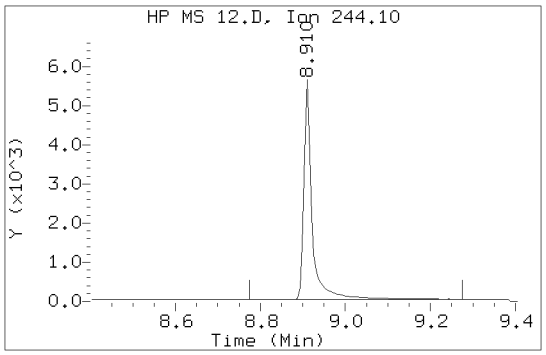
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



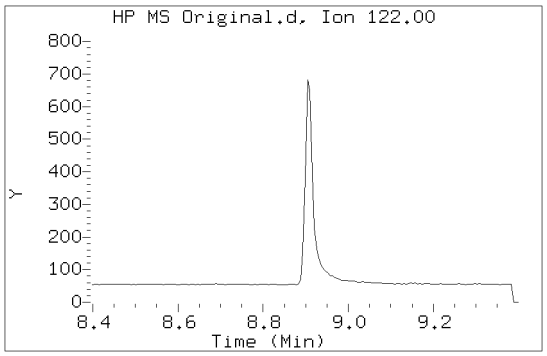
AFTER

MASS
244.1
AREA
7529
HEIGHT
5616
29-Jun-2023
15:48



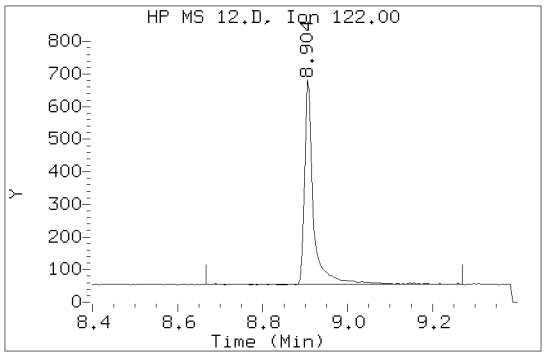
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



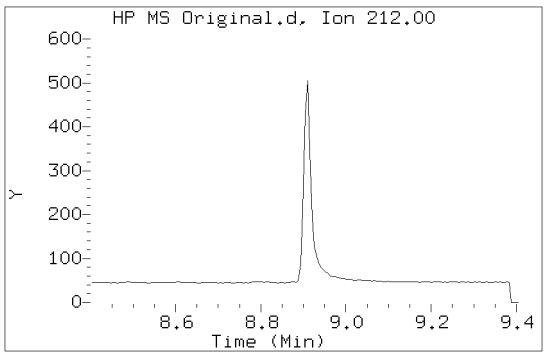
AFTER

MASS
122
AREA
918
HEIGHT
627
29-Jun-2023
15:48



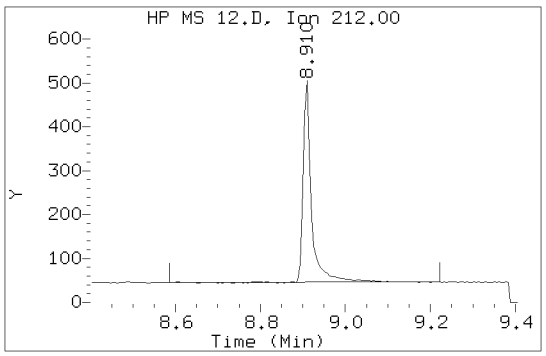
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
212
AREA
625
HEIGHT
459
29-Jun-2023
15:48

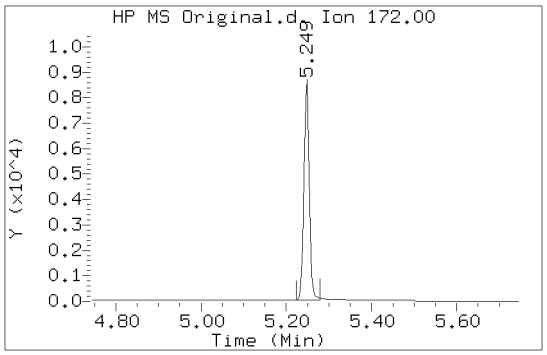


2-Fluorobiphenyl (321-60-8)

Reason Code:

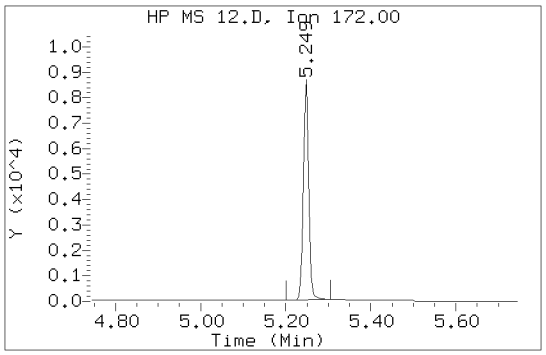
BEFORE

MASS
172
AREA
7733
HEIGHT
8663
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
172
AREA
7708
HEIGHT
8650
29-Jun-2023
15:48



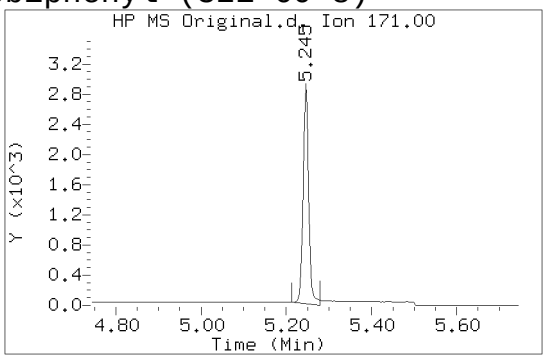
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Inj Date : 16-JUN-2023 14:15
InstruID : SV6.i
LabSampID : 14DXICAL-0.1

2-Fluorobiphenyl (321-60-8)

Reason Code:

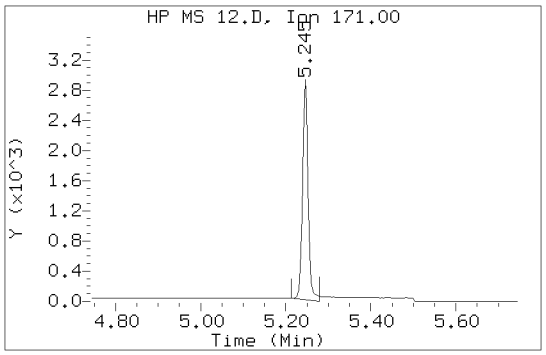
BEFORE

MASS
171
AREA
2685
HEIGHT
2917
16-Jun-2023
14:59
jiayi
lu



AFTER

MASS
171
AREA
2685
HEIGHT
2917
29-Jun-2023
15:48



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Lab Smp Id: 14DXICAL-0.5 Client Smp ID: 14DXICAL-0.5
Inj Date : 16-JUN-2023 14:51
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.5
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 12:38 Cal File: 09.D
Als bottle: 14 Calibration Sample, Level: 8
Dil Factor: 1.00000
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	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	3.122	3.122	(1.000)	4165	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	13989	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.579	3.579	(0.848)	19311	0.50000	0.4566(AM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	8414	0.10000	
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	39708	0.50000	0.4608(AM)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	16472	0.10000	(M)
* 182 Chrysene-d12	240	10.017	10.017	(1.000)	10483	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.889)	39805	0.50000	0.5203(AM)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	8460	0.10000	(M)
1 1,4-Dioxane	58	1.452	1.452	(0.465)	6496	0.50000	0.4630(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.

01251555

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D

Date : 16-JUN-2023 14:51

Client ID: 14DXICAL-0.5

Instrument: SV6.i

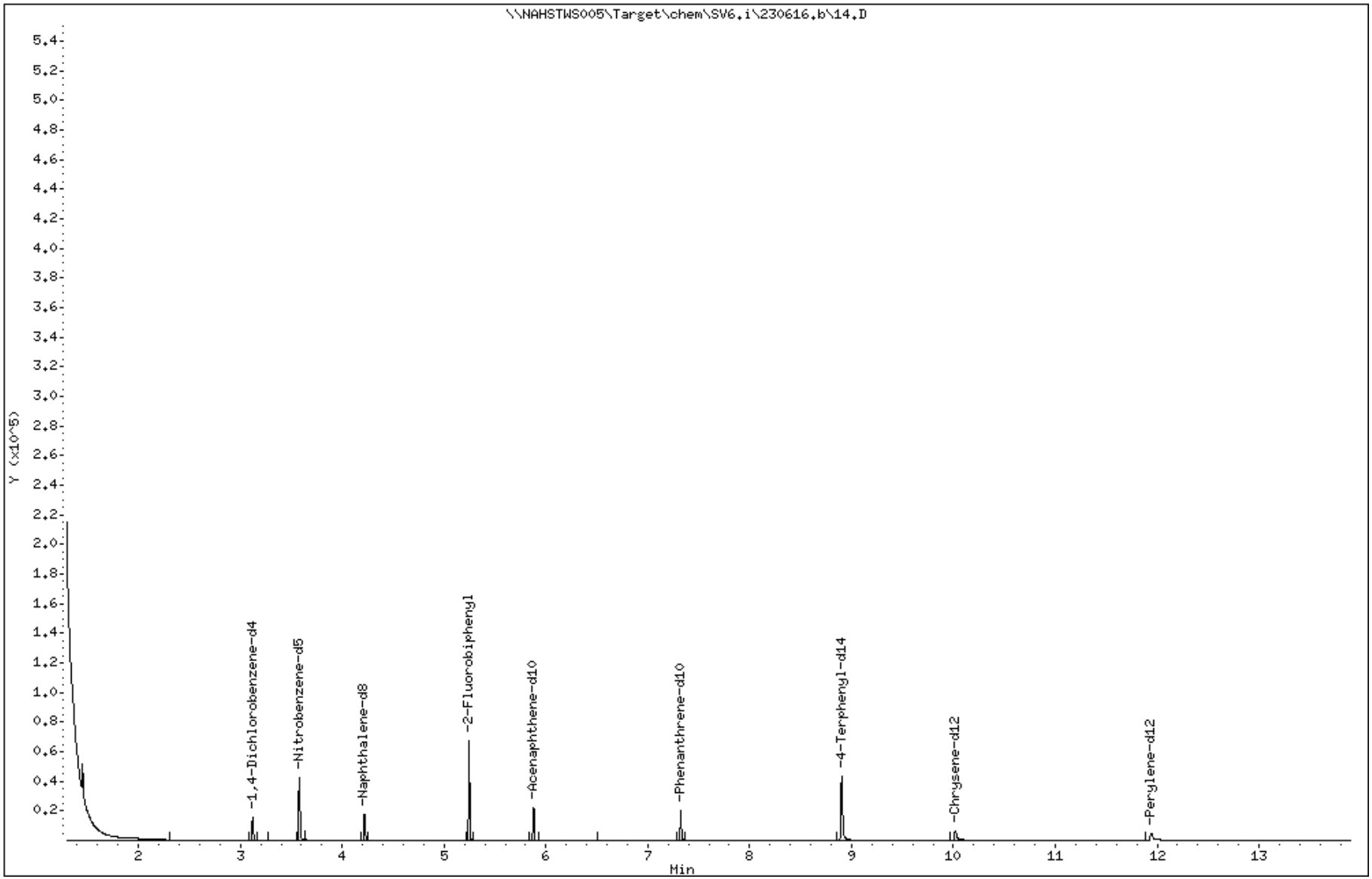
Sample Info: 14DXICAL-0.5

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



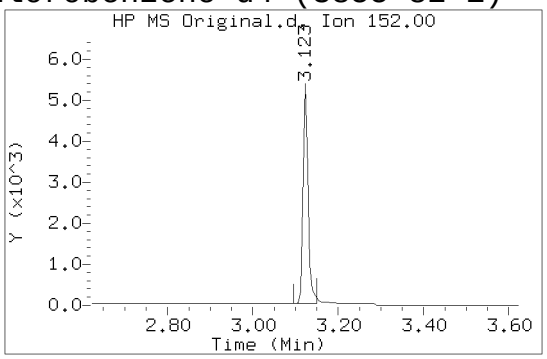
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Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

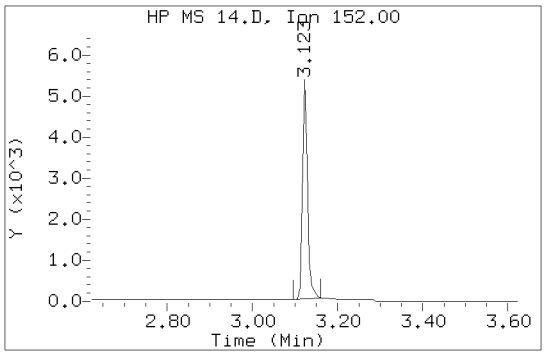
BEFORE

MASS
152
AREA
4211
HEIGHT
5358
16-Jun-2023
15:06
ALSHS
Server



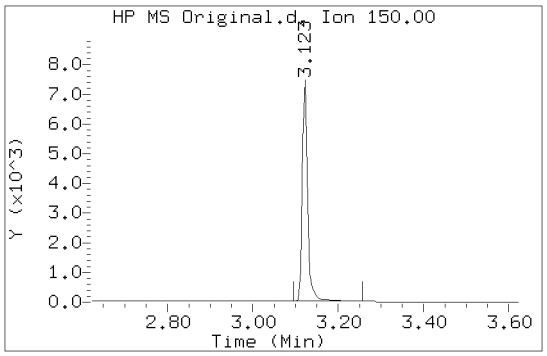
AFTER

MASS
152
AREA
4165
HEIGHT
5341
29-Jun-2023
14:27
ALSHS
Ser



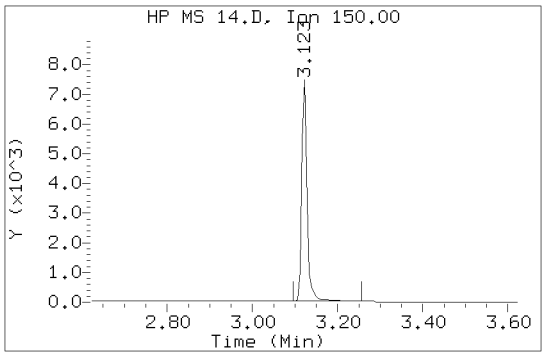
BEFORE

MASS
150
AREA
6228
HEIGHT
7441
16-Jun-2023
15:06
ALSHS
Server



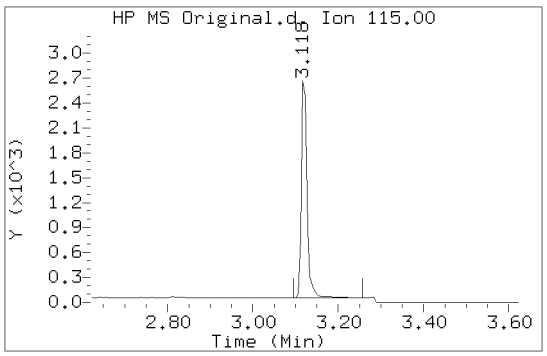
AFTER

MASS
150
AREA
6228
HEIGHT
7441
29-Jun-2023
14:27
ALSHS
Ser



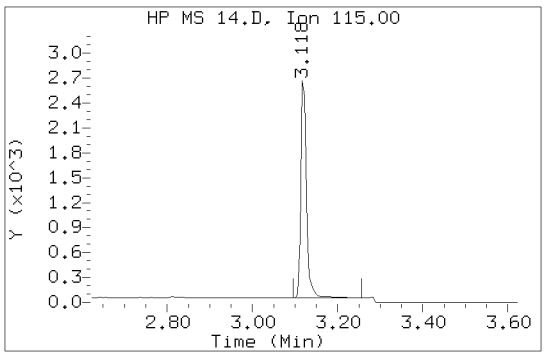
BEFORE

MASS
115
AREA
2367
HEIGHT
2615
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
115
AREA
2367
HEIGHT
2615
29-Jun-2023
14:27
ALSHS
Ser

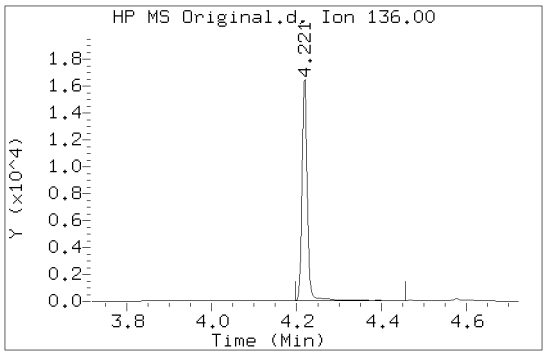


Naphthalene-d8 (1146-65-2)

Reason Code:

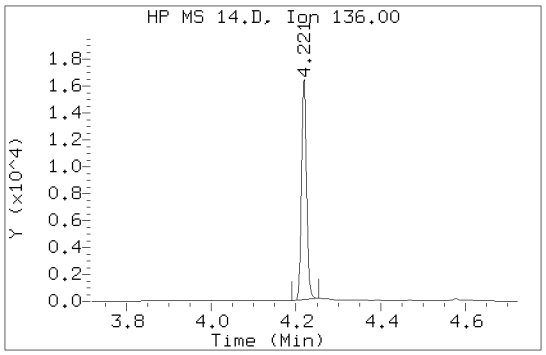
BEFORE

MASS
136
AREA
14856
HEIGHT
16448
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
136
AREA
13989
HEIGHT
16349
29-Jun-2023
14:27
ALSHS
Ser



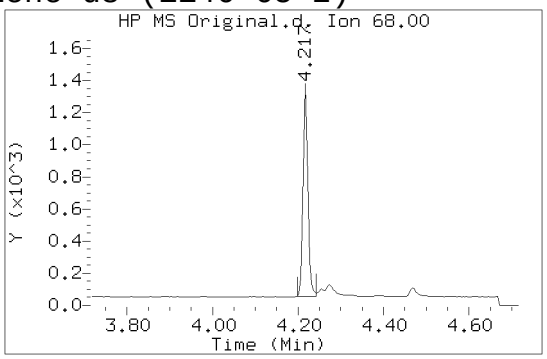
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Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Naphthalene-d8 (1146-65-2)

Reason Code:

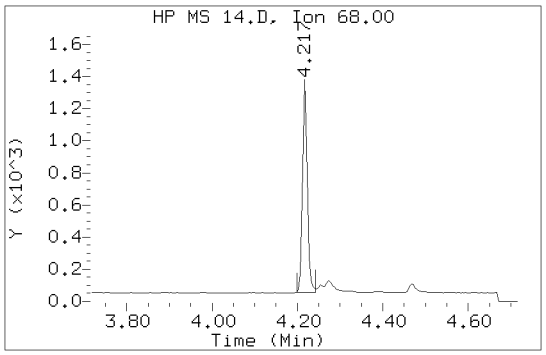
BEFORE

MASS
68
AREA
1074
HEIGHT
1326
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
68
AREA
1074
HEIGHT
1326
29-Jun-2023
14:27
ALSHS
Ser

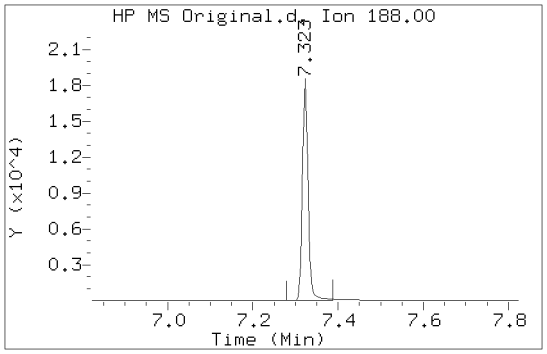


Phenanthrene-d10 (1517-22-2)

Reason Code:

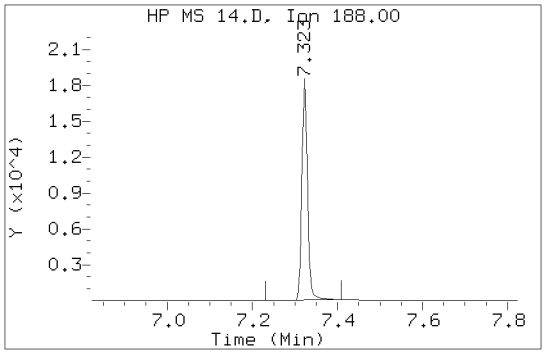
BEFORE

MASS
188
AREA
16664
HEIGHT
18523
16-Jun-2023
15:06
ALSHS
Server



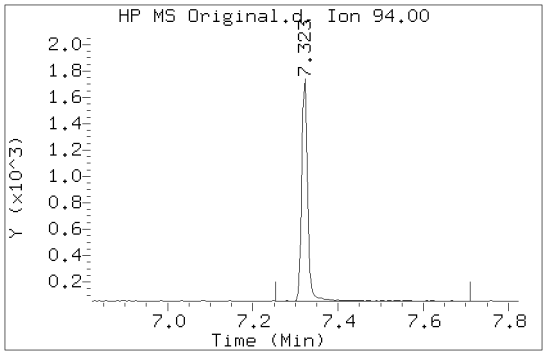
AFTER

MASS
188
AREA
16472
HEIGHT
18498
29-Jun-2023
14:27
ALSHS
Ser



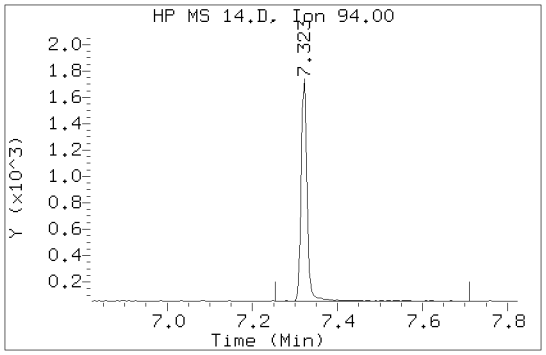
BEFORE

MASS
94
AREA
1634
HEIGHT
1685
16-Jun-2023
15:06
ALSHS
Server



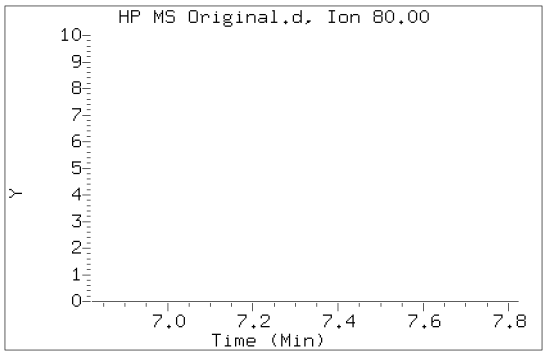
AFTER

MASS
94
AREA
1634
HEIGHT
1685
29-Jun-2023
14:27
ALSHS
Ser



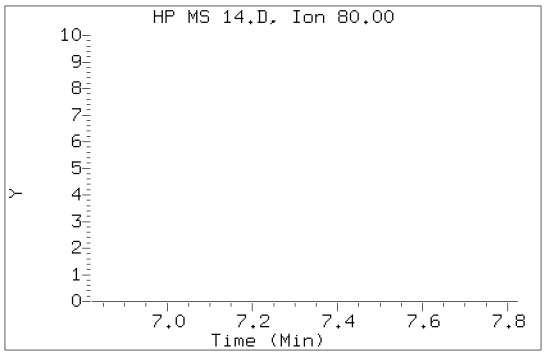
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



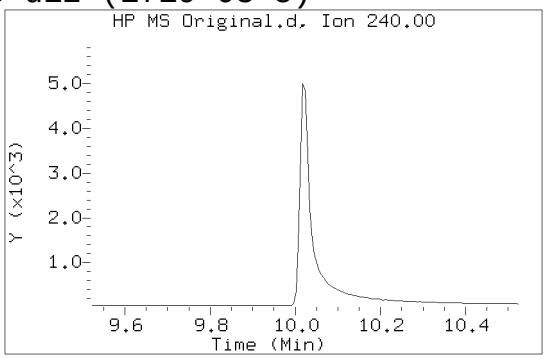
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Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Chrysene-d12 (1719-03-5)

Reason Code:

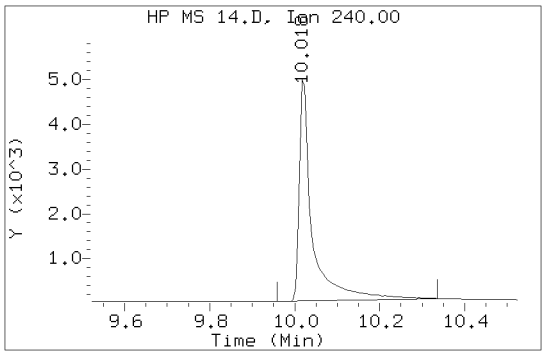
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



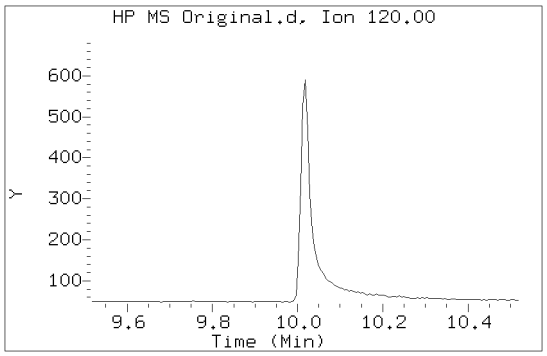
AFTER

MASS
240
AREA
10483
HEIGHT
4943
29-Jun-2023
14:27
ALSHS
Ser



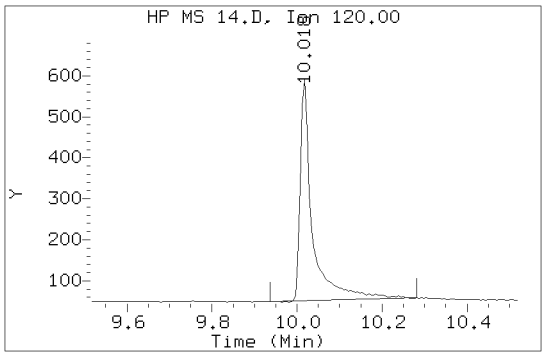
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



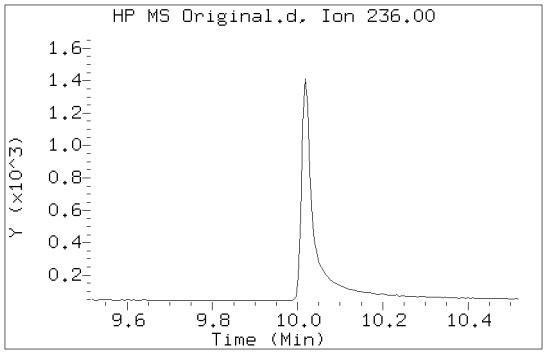
AFTER

MASS
120
AREA
1068
HEIGHT
538
29-Jun-2023
14:27
ALSHS
Ser



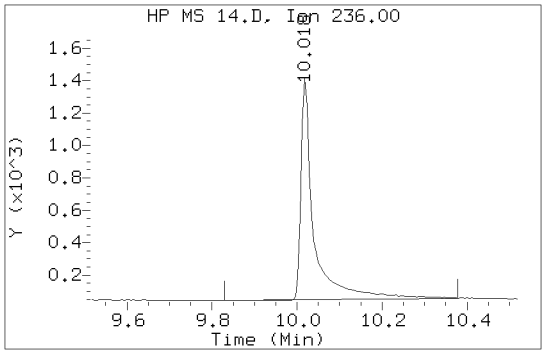
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
236
AREA
2872
HEIGHT
1362
29-Jun-2023
14:27
ALSHS
Ser

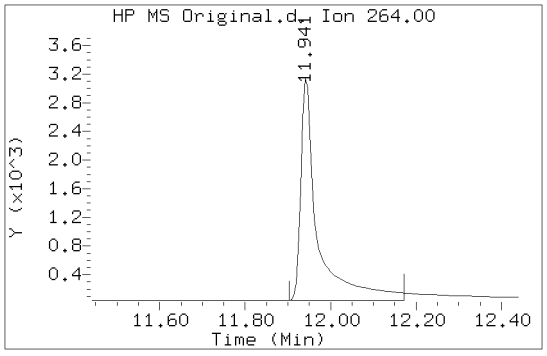


Perylene-d12 (1520-96-3)

Reason Code:

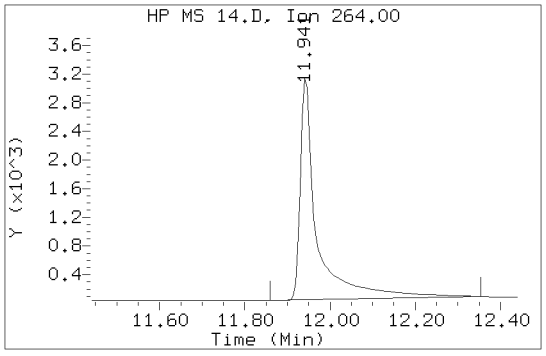
BEFORE

MASS
264
AREA
8406
HEIGHT
3088
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
264
AREA
8460
HEIGHT
3081
29-Jun-2023
14:27
ALSHS
Ser



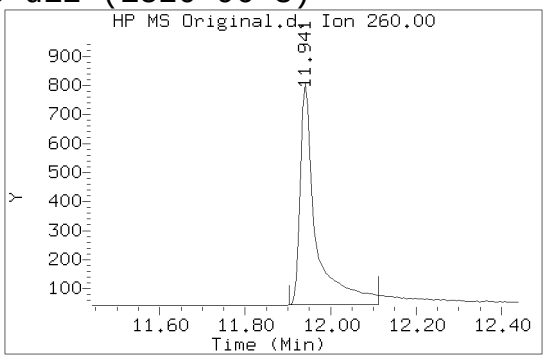
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Perylene-d12 (1520-96-3)

Reason Code:

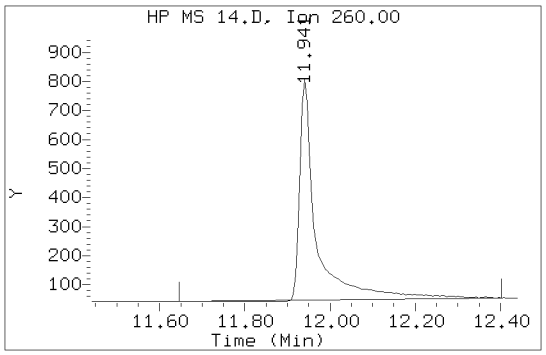
BEFORE

MASS
260
AREA
1950
HEIGHT
761
16-Jun-2023
15:06
ALSHS
Server



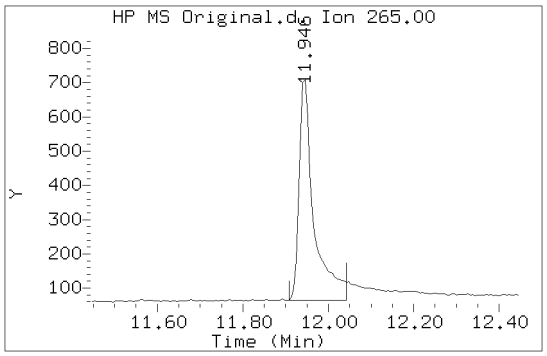
AFTER

MASS
260
AREA
2034
HEIGHT
757
29-Jun-2023
14:27
ALSHS
Ser



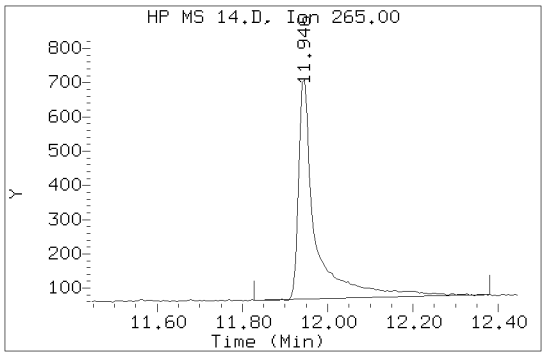
BEFORE

MASS
265
AREA
1539
HEIGHT
643
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
265
AREA
1765
HEIGHT
639
29-Jun-2023
14:27
ALSHS
Ser

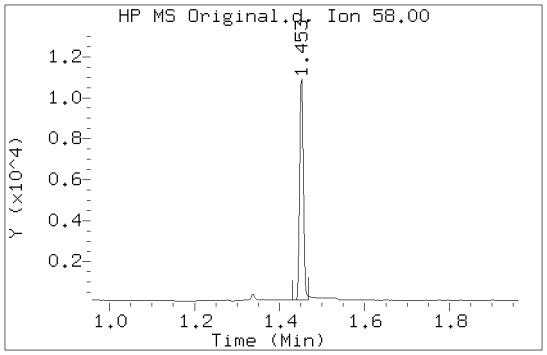


1,4-Dioxane ()

Reason Code:

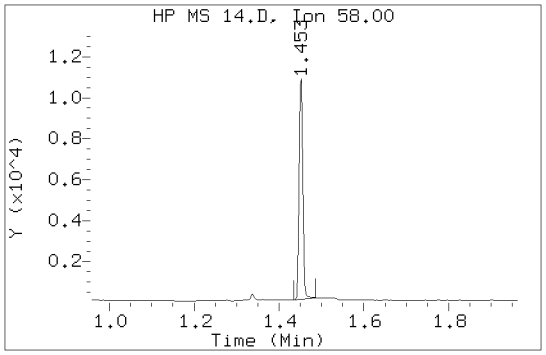
BEFORE

MASS
58
AREA
6535
HEIGHT
10789
16-Jun-2023
15:06
ALSHS
Server



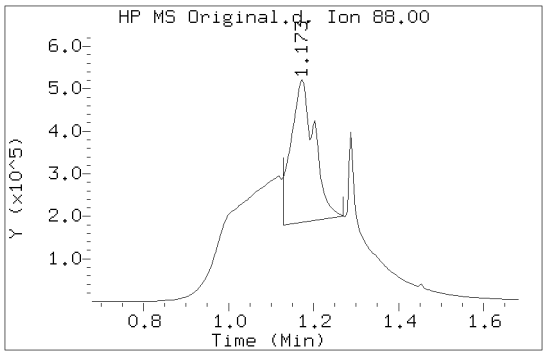
AFTER

MASS
58
AREA
6496
HEIGHT
10751
29-Jun-2023
14:27
ALSHS
Ser



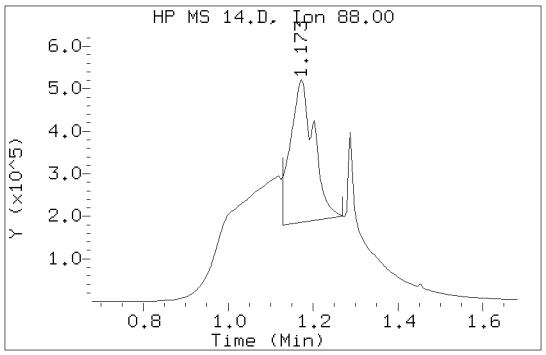
BEFORE

MASS
88
AREA
1285756
HEIGHT
334955
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
88
AREA
1285756
HEIGHT
334955
29-Jun-2023
14:27
ALSHS
Ser



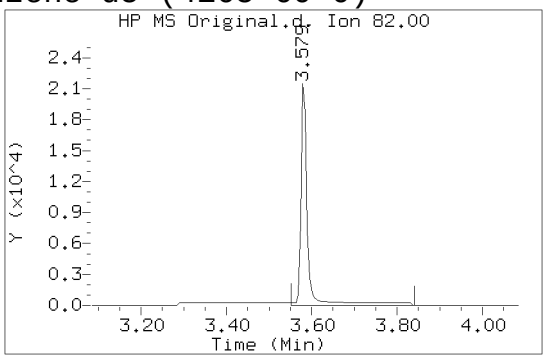
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

Nitrobenzene-d5 (4165-60-0)

Reason Code:

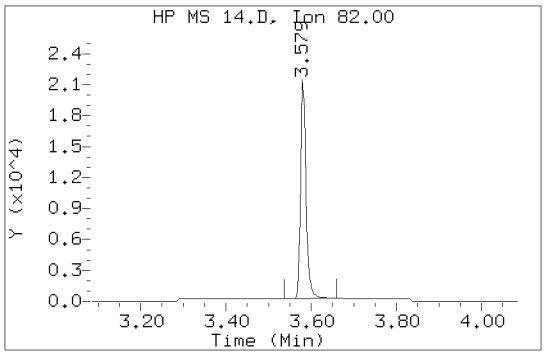
BEFORE

MASS
82
AREA
23560
HEIGHT
21488
16-Jun-2023
15:06
ALSHS
Server



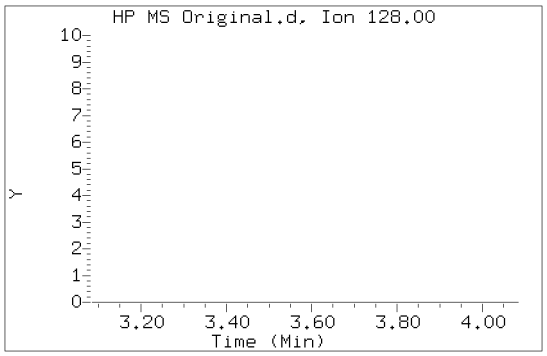
AFTER

MASS
82
AREA
19311
HEIGHT
21230
29-Jun-2023
14:27
ALSHS
Ser



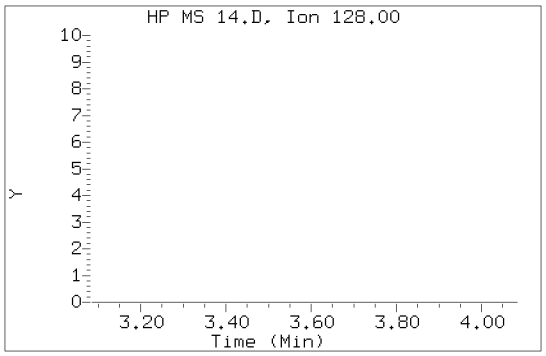
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



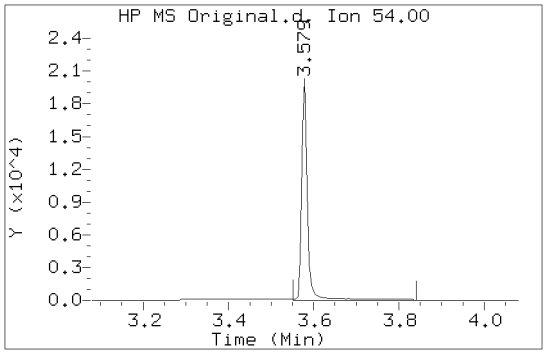
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



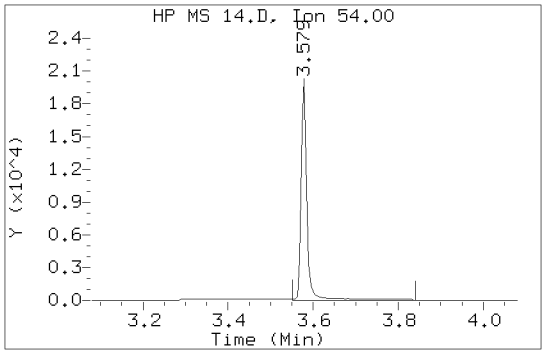
BEFORE

MASS
54
AREA
20065
HEIGHT
20304
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
54
AREA
20065
HEIGHT
20304
29-Jun-2023
14:27
ALSHS
Ser

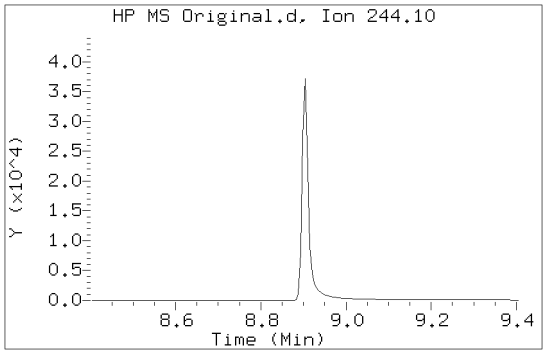


4-Terphenyl-d14 (1718-51-0)

Reason Code:

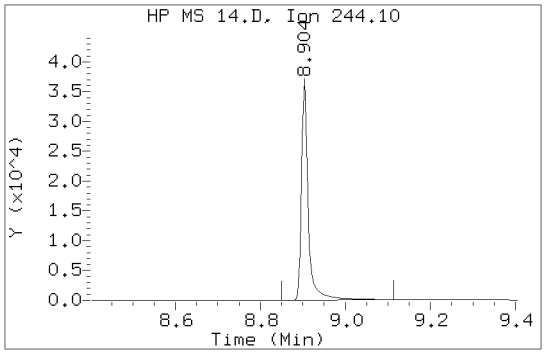
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
244.1
AREA
39805
HEIGHT
37107
29-Jun-2023
14:27
ALSHS
Ser



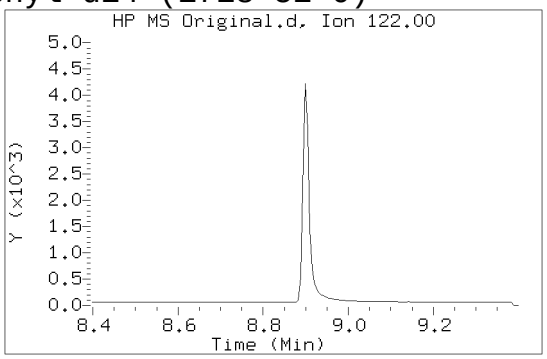
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\14.D
Inj Date : 16-JUN-2023 14:51
InstruID : SV6.i
LabSampID : 14DXICAL-0.5

4-Terphenyl-d14 (1718-51-0)

Reason Code:

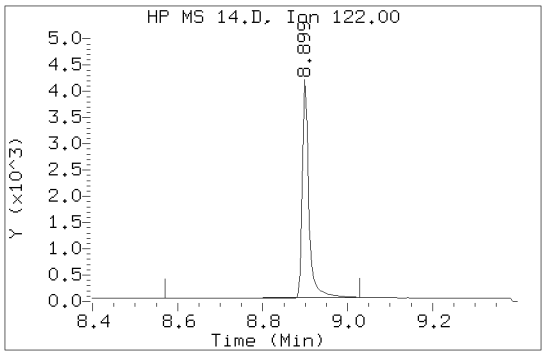
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



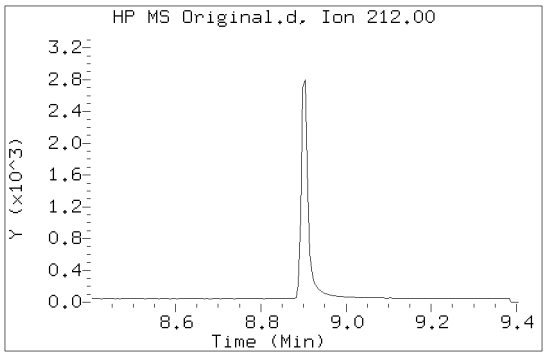
AFTER

MASS
122
AREA
4228
HEIGHT
4149
29-Jun-2023
14:27
ALSHS
Ser



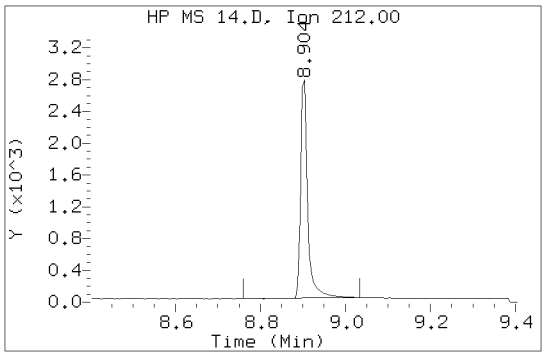
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
212
AREA
3105
HEIGHT
2745
29-Jun-2023
14:27
ALSHS
Ser

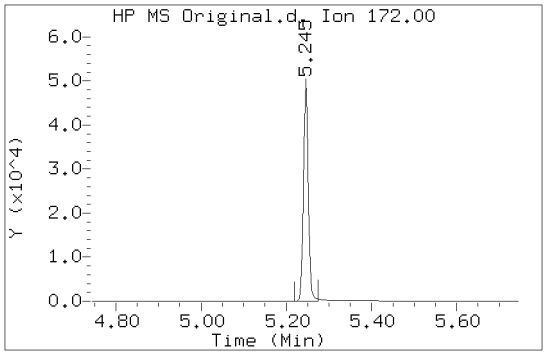


2-Fluorobiphenyl (321-60-8)

Reason Code:

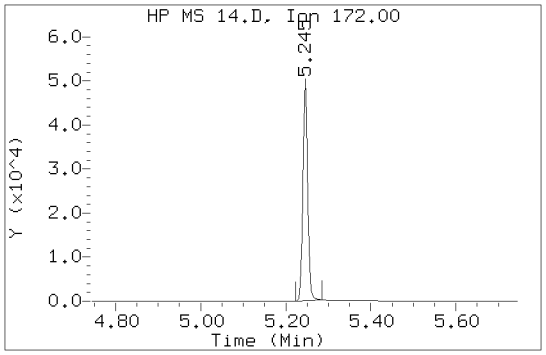
BEFORE

MASS
172
AREA
40002
HEIGHT
50410
16-Jun-2023
15:06
ALSHS
Server



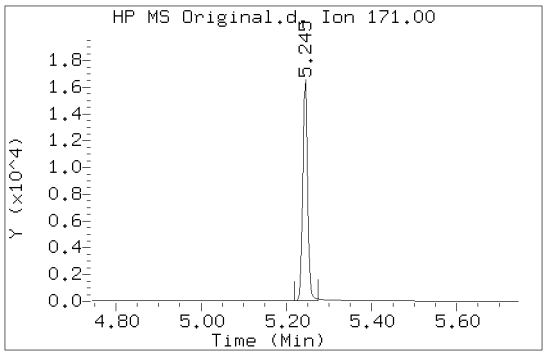
AFTER

MASS
172
AREA
39708
HEIGHT
50322
29-Jun-2023
14:27
ALSHS
Ser



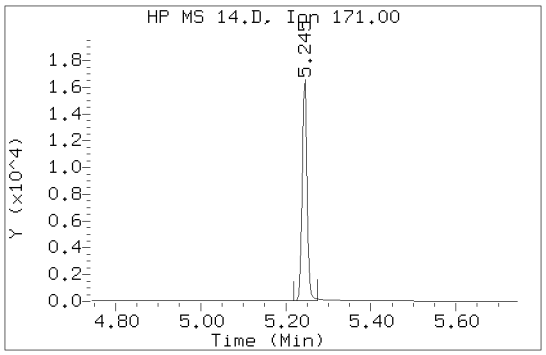
BEFORE

MASS
171
AREA
13389
HEIGHT
16514
16-Jun-2023
15:06
ALSHS
Server



AFTER

MASS
171
AREA
13389
HEIGHT
16514
29-Jun-2023
14:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D Page 1
Report Date: 29-Jun-2023 14:27

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Lab Smp Id: 14DXICAL-0.2 Client Smp ID: 14DXICAL-0.2
Inj Date : 16-JUN-2023 15:56
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICAL-0.2RR
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 14:51 Cal File: 14.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
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	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	3.122	3.122	(1.000)	3731	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	12688	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	8839	0.20000	0.2304(AM)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	7256	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.245	5.245	(0.891)	18173	0.20000	0.2446(AM)
* 126 Phenanthrene-d10	188	7.322	7.322	(1.000)	14346	0.10000	
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	8796	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.904	8.904	(0.888)	17639	0.20000	0.2748(AM)
* 198 Perylene-d12	264	11.940	11.940	(1.000)	6565	0.10000	(M)
1 1,4-Dioxane	58	1.460	1.460	(0.468)	2996	0.20000	0.2384(Q)

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.

01251564

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D

Date : 16-JUN-2023 15:56

Client ID: 14DXICAL-0.2

Instrument: SV6.i

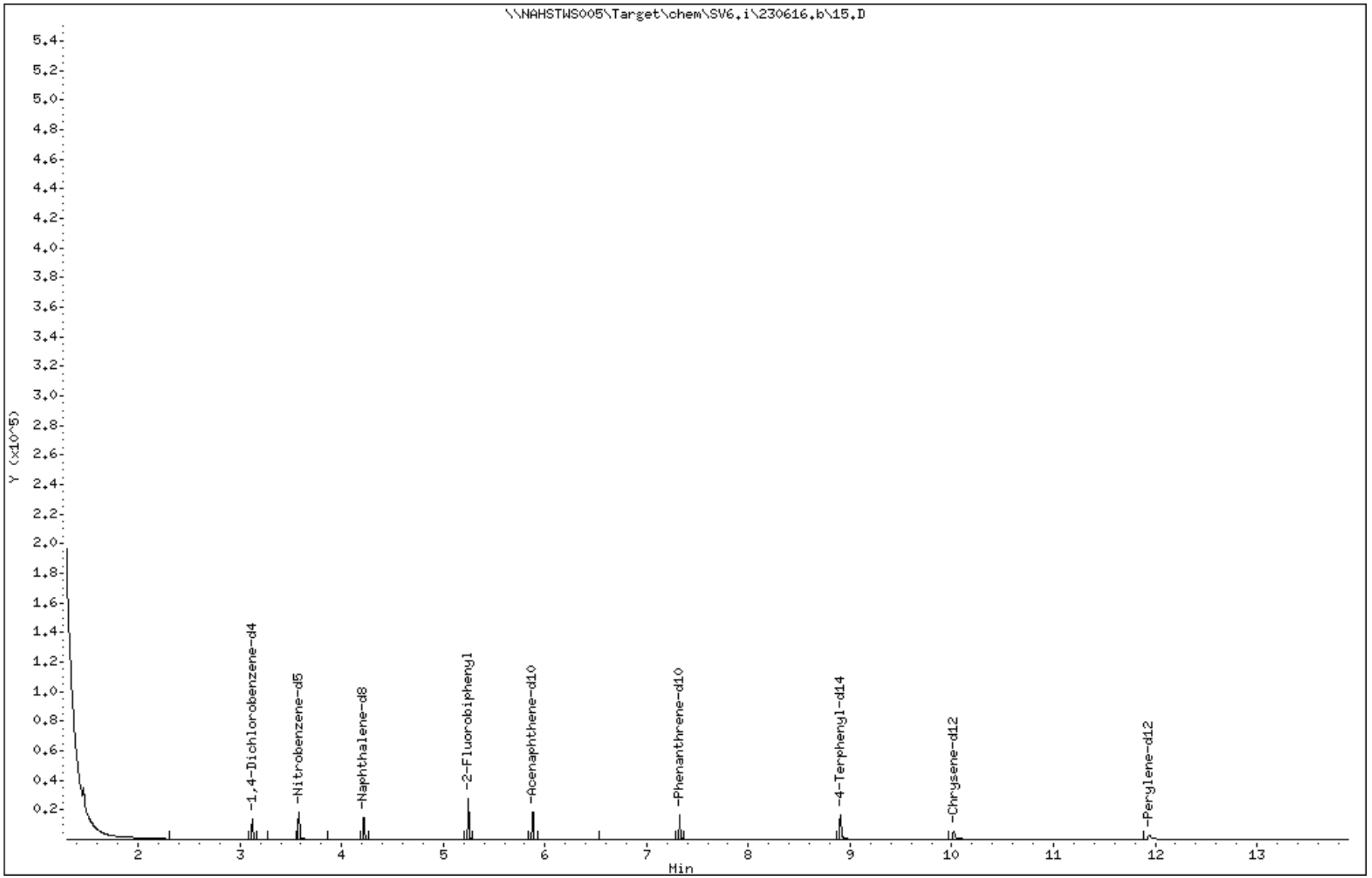
Sample Info: 14DXICAL-0.2RR

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



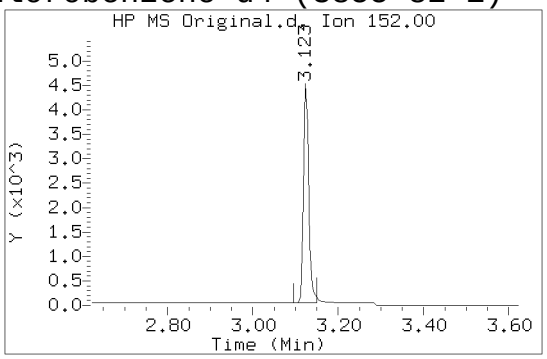
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

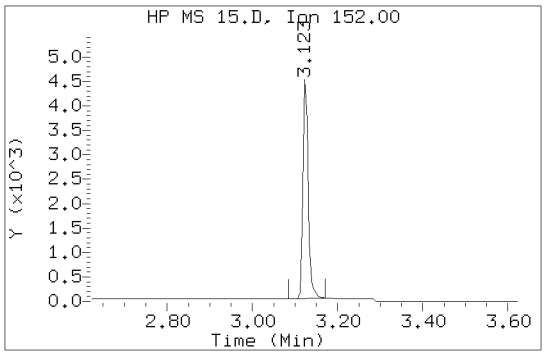
BEFORE

MASS
152
AREA
3749
HEIGHT
4489
16-Jun-2023
16:11
ALSHS
Server



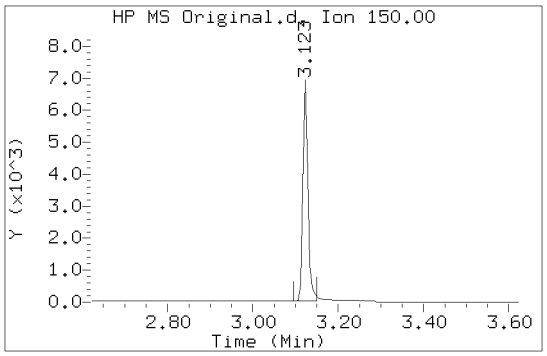
AFTER

MASS
152
AREA
3731
HEIGHT
4478
29-Jun-2023
14:27
ALSHS
Ser



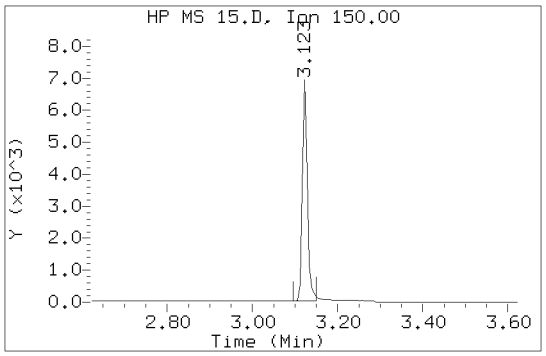
BEFORE

MASS
150
AREA
5426
HEIGHT
6903
16-Jun-2023
16:11
ALSHS
Server



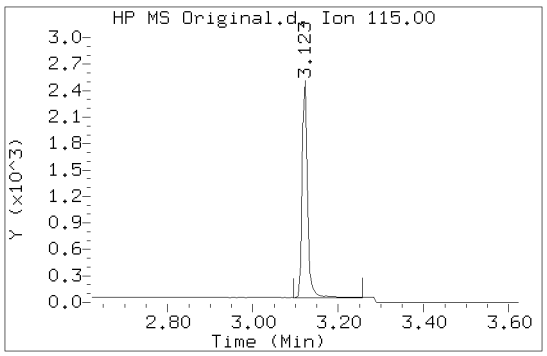
AFTER

MASS
150
AREA
5426
HEIGHT
6903
29-Jun-2023
14:27
ALSHS
Ser



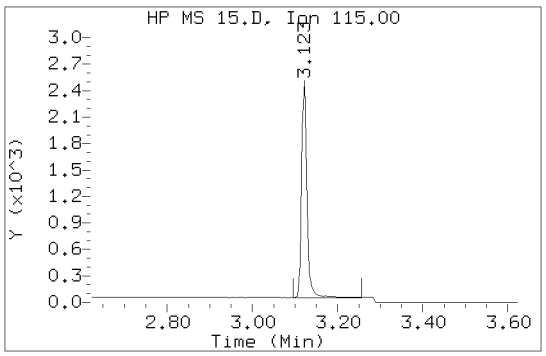
BEFORE

MASS
115
AREA
2094
HEIGHT
2459
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
115
AREA
2094
HEIGHT
2459
29-Jun-2023
14:27
ALSHS
Ser

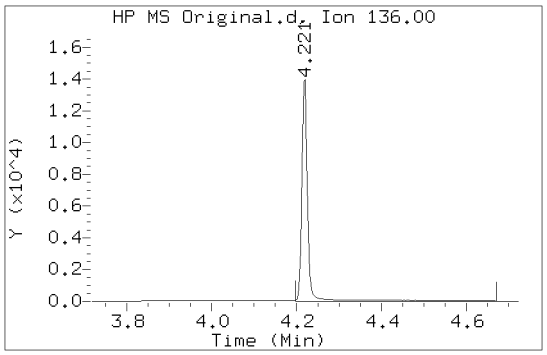


Naphthalene-d8 (1146-65-2)

Reason Code:

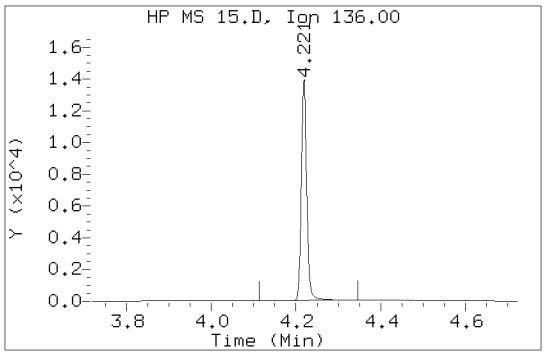
BEFORE

MASS
136
AREA
14465
HEIGHT
13959
16-Jun-2023
16:11
ALSHS
Server



AFTER

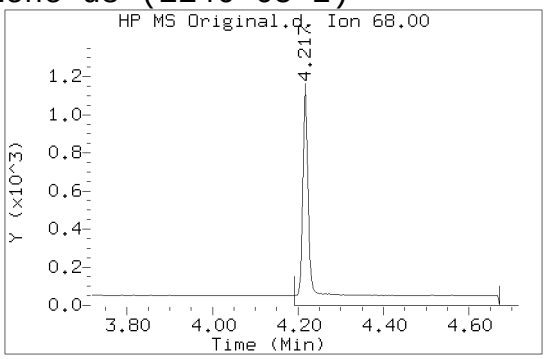
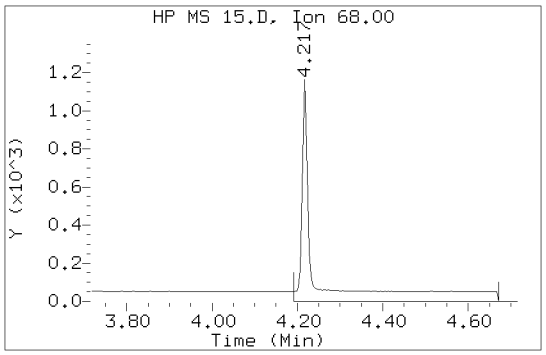
MASS
136
AREA
12688
HEIGHT
13897
29-Jun-2023
14:27
ALSHS
Ser



Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

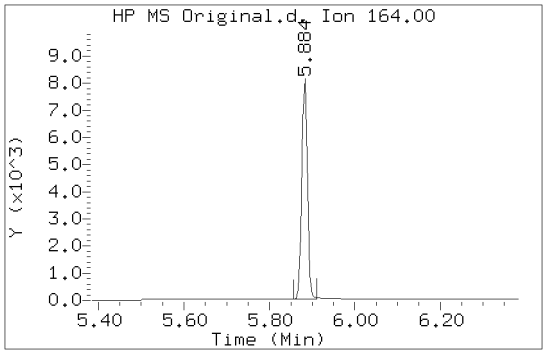
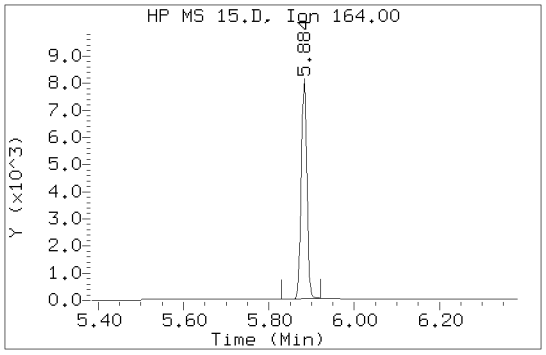
Naphthalene-d8 (1146-65-2)

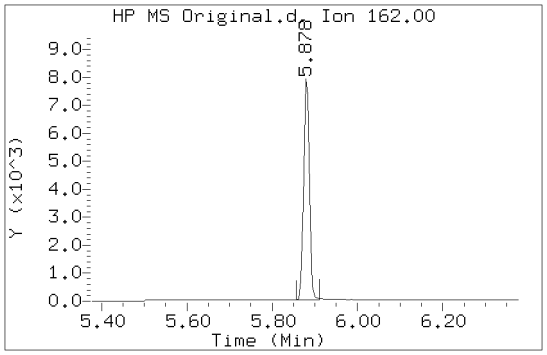
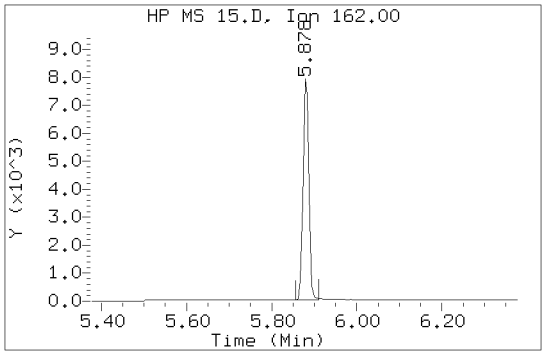
Reason Code:

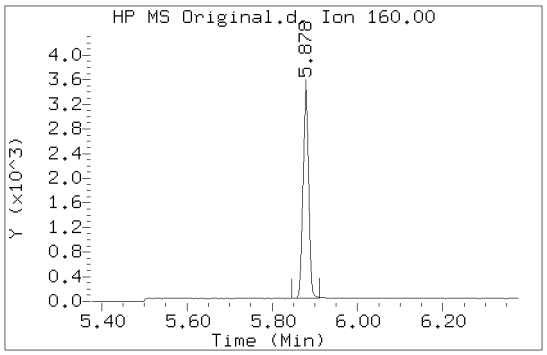
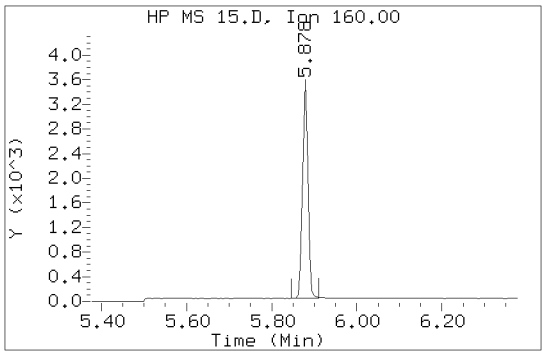
BEFORE		AFTER	
MASS		MASS	
68		68	
AREA		AREA	
2461		2461	
HEIGHT		HEIGHT	
1163		1163	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	

Acenaphthene-d10 (15067-26-2)

Reason Code:

BEFORE		AFTER	
MASS		MASS	
164		164	
AREA		AREA	
7305		7256	
HEIGHT		HEIGHT	
8114		8100	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	

BEFORE		AFTER	
MASS		MASS	
162		162	
AREA		AREA	
7389		7389	
HEIGHT		HEIGHT	
7893		7893	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	

BEFORE		AFTER	
MASS		MASS	
160		160	
AREA		AREA	
3110		3110	
HEIGHT		HEIGHT	
3554		3554	
16-Jun-2023		29-Jun-2023	
16:11		14:27	
ALSHS		ALSHS	
Server		Ser	

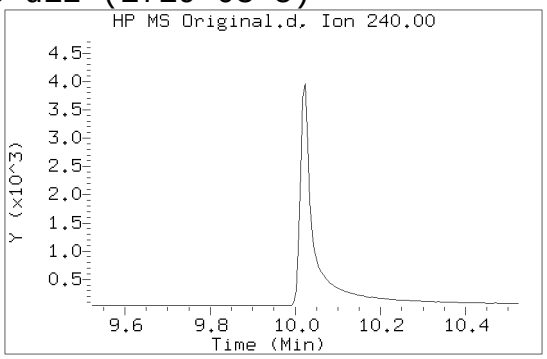
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Chrysene-d12 (1719-03-5)

Reason Code:

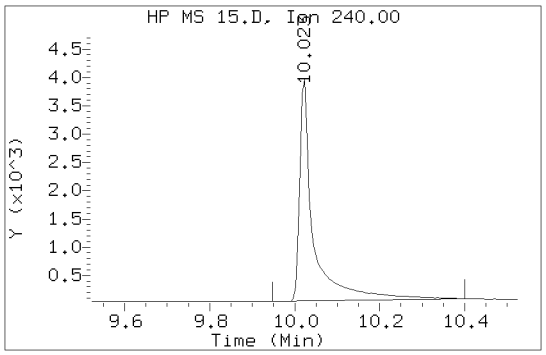
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



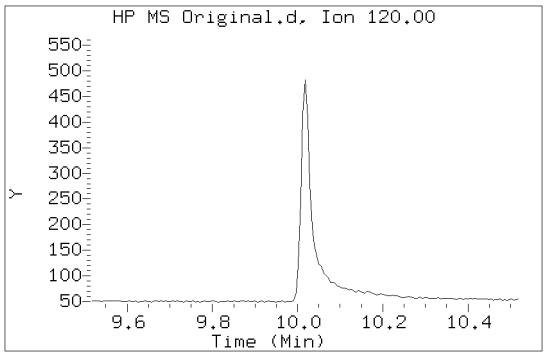
AFTER

MASS
240
AREA
8796
HEIGHT
3907
29-Jun-2023
14:27
ALSHS
Ser



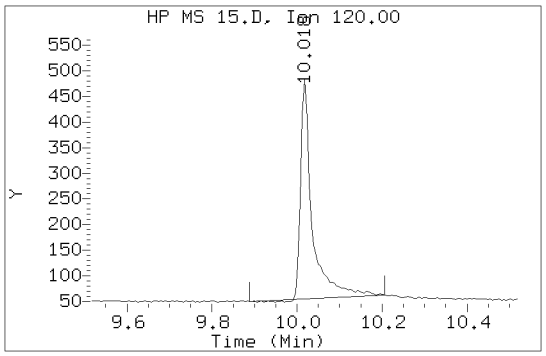
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



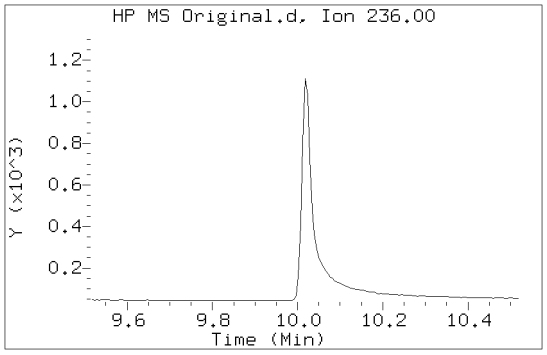
AFTER

MASS
120
AREA
798
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser



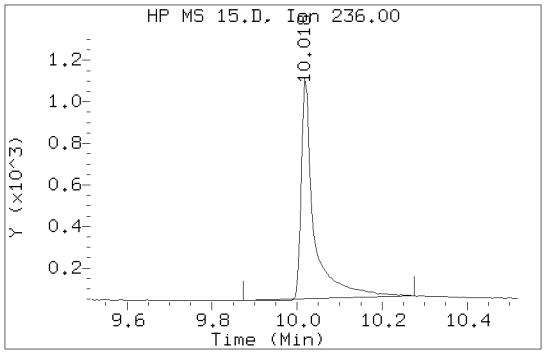
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
236
AREA
2198
HEIGHT
1058
29-Jun-2023
14:27
ALSHS
Ser

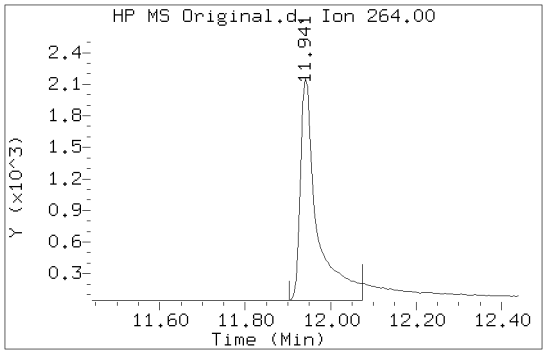


Perylene-d12 (1520-96-3)

Reason Code:

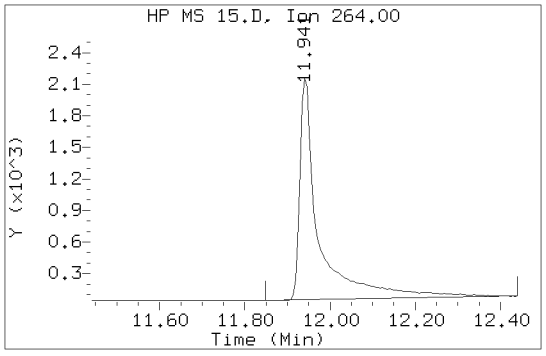
BEFORE

MASS
264
AREA
5713
HEIGHT
2106
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
264
AREA
6565
HEIGHT
2100
29-Jun-2023
14:27
ALSHS
Ser



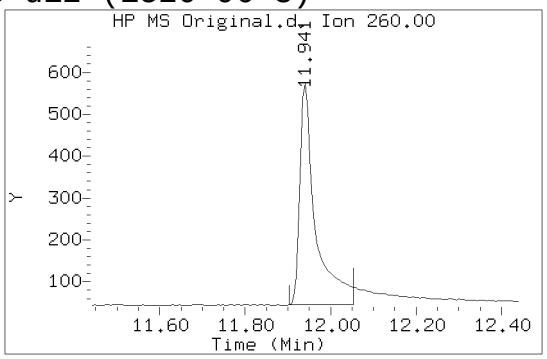
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Perylene-d12 (1520-96-3)

Reason Code:

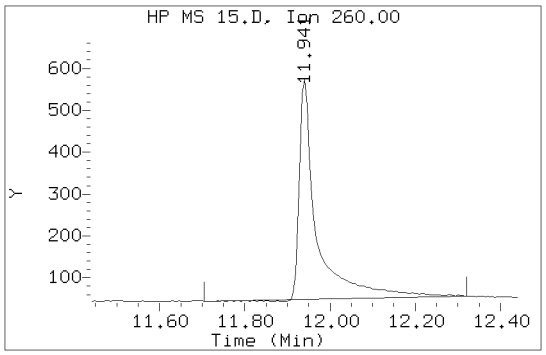
BEFORE

MASS
260
AREA
1348
HEIGHT
528
16-Jun-2023
16:11
ALSHS
Server



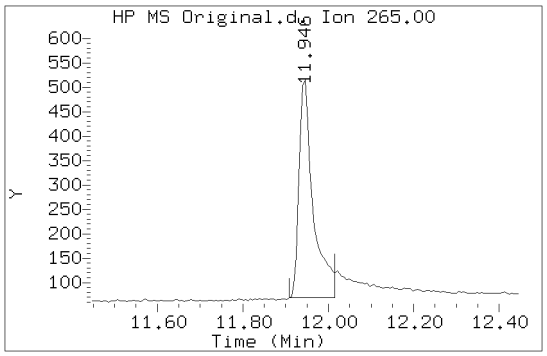
AFTER

MASS
260
AREA
1491
HEIGHT
524
29-Jun-2023
14:27
ALSHS
Ser



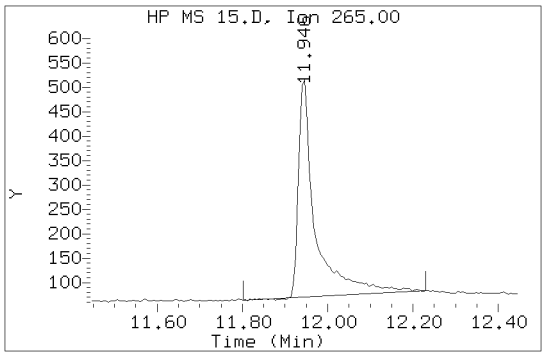
BEFORE

MASS
265
AREA
1037
HEIGHT
446
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
265
AREA
1210
HEIGHT
444
29-Jun-2023
14:27
ALSHS
Ser

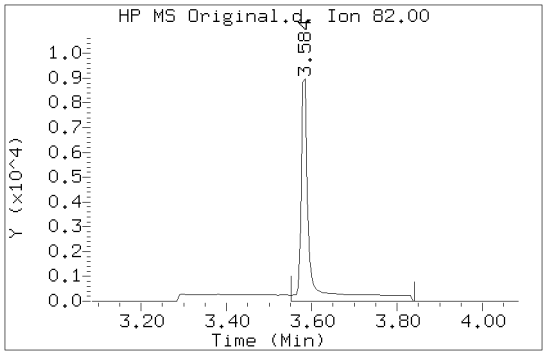


Nitrobenzene-d5 (4165-60-0)

Reason Code:

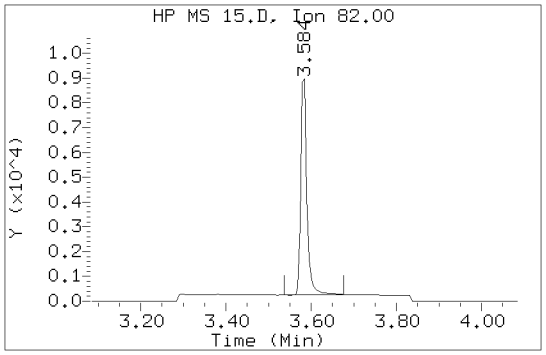
BEFORE

MASS
82
AREA
13113
HEIGHT
8968
16-Jun-2023
16:11
ALSHS
Server



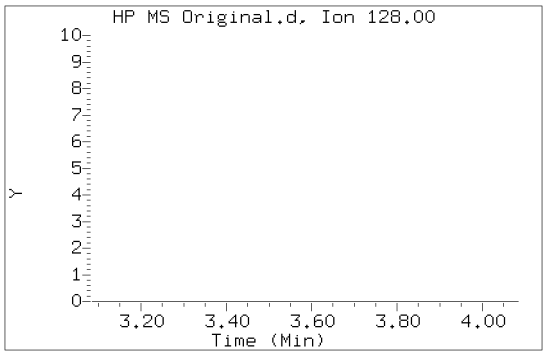
AFTER

MASS
82
AREA
8839
HEIGHT
8709
29-Jun-2023
14:27
ALSHS
Ser



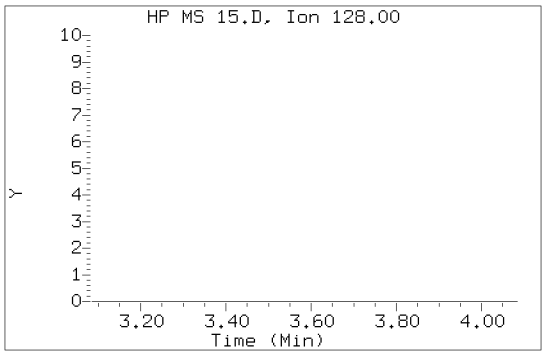
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



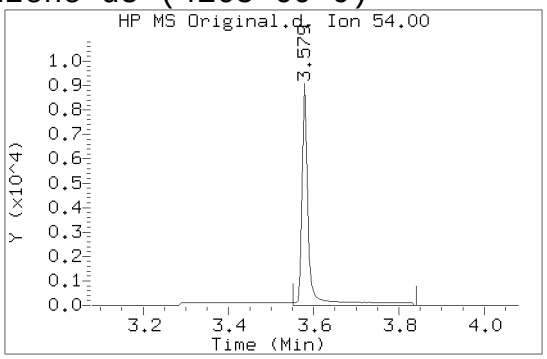
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

Nitrobenzene-d5 (4165-60-0)

Reason Code:

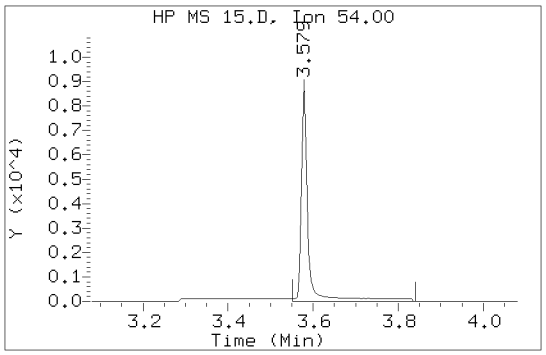
BEFORE

MASS
54
AREA
10106
HEIGHT
9078
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
54
AREA
10106
HEIGHT
9078
29-Jun-2023
14:27
ALSHS
Ser

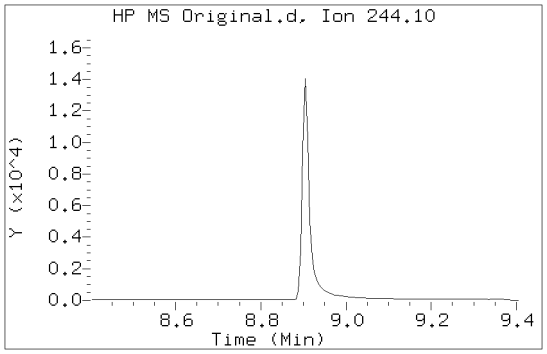


4-Terphenyl-d14 (1718-51-0)

Reason Code:

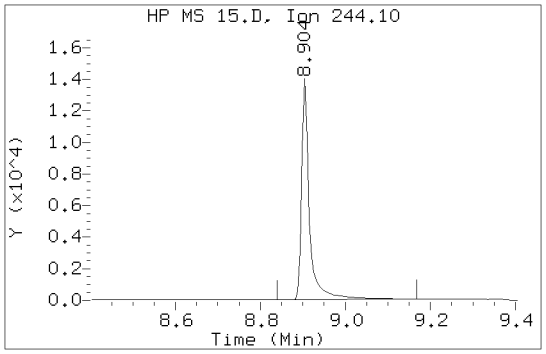
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



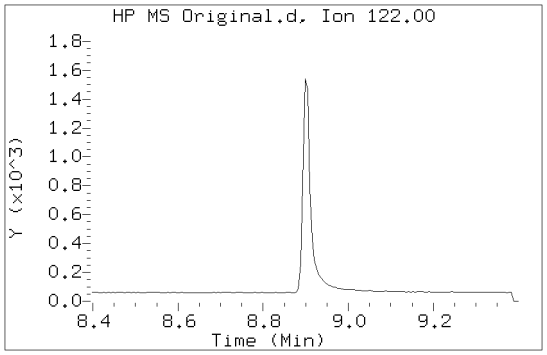
AFTER

MASS
244.1
AREA
17639
HEIGHT
13989
29-Jun-2023
14:27
ALSHS
Ser



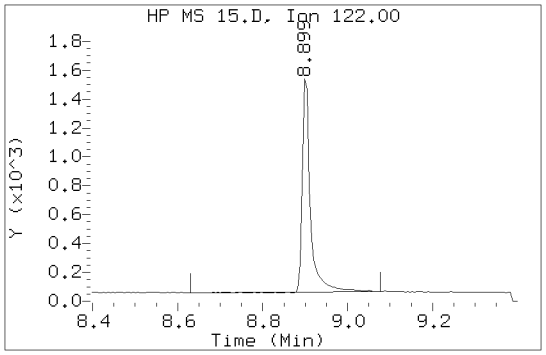
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



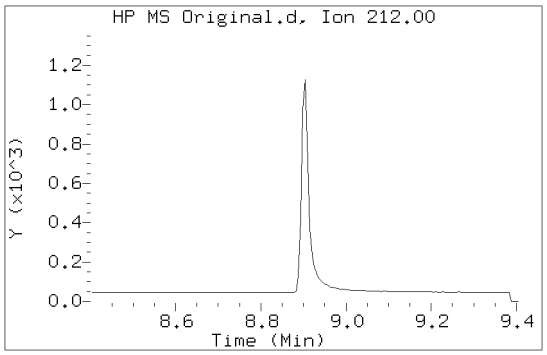
AFTER

MASS
122
AREA
1896
HEIGHT
1474
29-Jun-2023
14:27
ALSHS
Ser



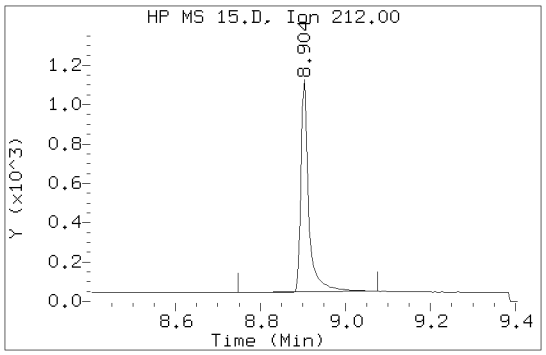
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
212
AREA
1371
HEIGHT
1079
29-Jun-2023
14:27
ALSHS
Ser



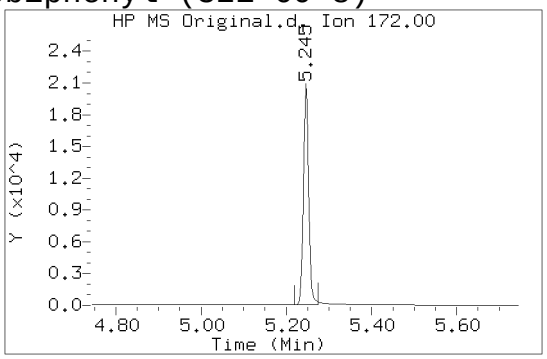
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\15.D
Inj Date : 16-JUN-2023 15:56
InstruID : SV6.i
LabSampID : 14DXICAL-0.2

2-Fluorobiphenyl (321-60-8)

Reason Code:

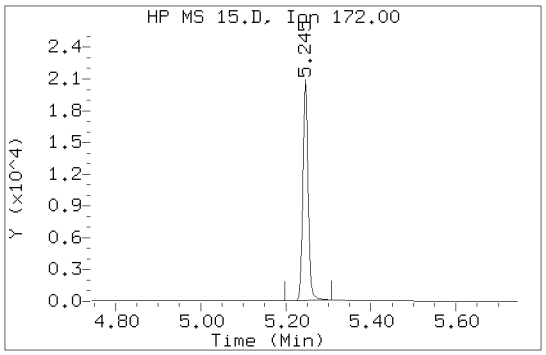
BEFORE

MASS
172
AREA
18197
HEIGHT
20880
16-Jun-2023
16:11
ALSHS
Server



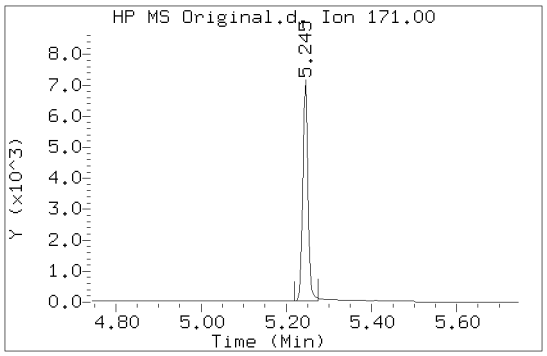
AFTER

MASS
172
AREA
18173
HEIGHT
20843
29-Jun-2023
14:27
ALSHS
Ser



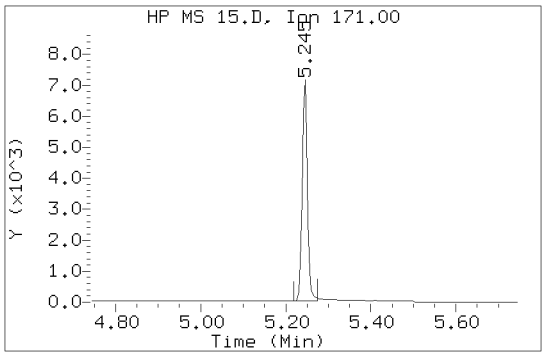
BEFORE

MASS
171
AREA
6120
HEIGHT
7129
16-Jun-2023
16:11
ALSHS
Server



AFTER

MASS
171
AREA
6120
HEIGHT
7129
29-Jun-2023
14:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Lab Smp Id: 14DXICV-0.08 Client Smp ID: 14DXICV-0.08
Inj Date : 16-JUN-2023 16:22
Operator : LG Inst ID: SV6.i
Smp Info : 14DXICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230616.b\DXSIM.m
Meth Date : 29-Jun-2023 14:27 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 16 QC Sample: METHSPIKE
Dil Factor: 1.00000
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	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	3.128	3.122	(1.000)	5295	0.10000	(aM)
* 45 Naphthalene-d8	136	4.220	4.220	(1.000)	17725	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.584	3.584	(0.849)	3797	0.07086	0.07086(M)
* 86 Acenaphthene-d10	164	5.883	5.883	(1.000)	10379	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.248	5.245	(0.892)	8542	0.08036	0.08036(M)
* 126 Phenanthrene-d10	188	7.328	7.322	(1.000)	20505	0.10000	(M)
* 182 Chrysene-d12	240	10.023	10.023	(1.000)	12662	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.909	8.904	(0.889)	7743	0.08379	0.08379(M)
* 198 Perylene-d12	264	11.945	11.940	(1.000)	10635	0.10000	(M)
1 1,4-Dioxane	58	1.464	1.460	(0.468)	1261	0.07070	0.07070(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01251572

Data File: \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D

Date : 16-JUN-2023 16:22

Client ID: 14DXICV-0.08

Instrument: SV6.i

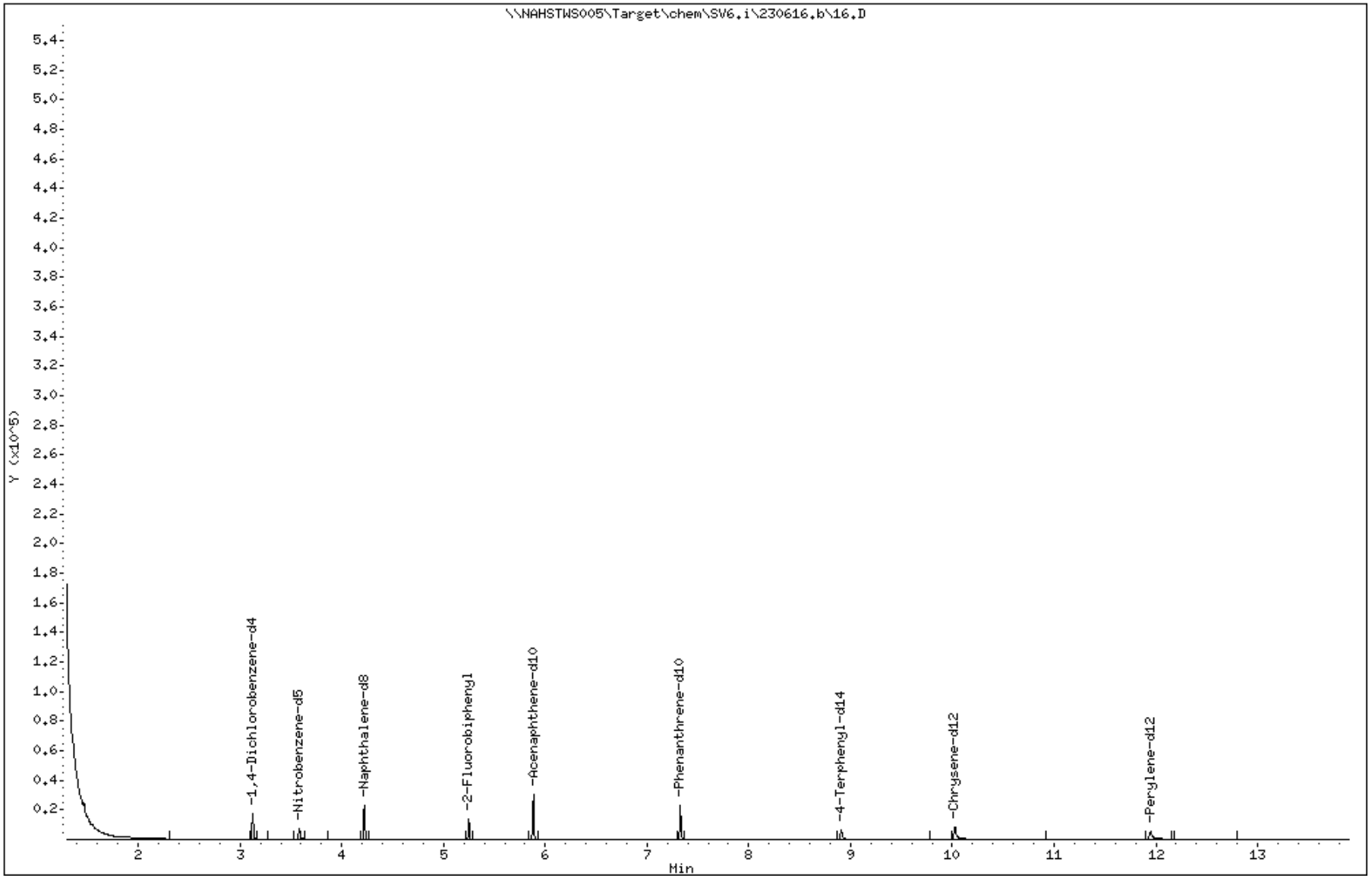
Sample Info: 14DXICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



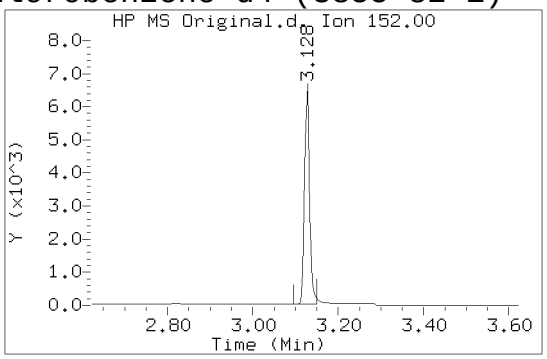
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

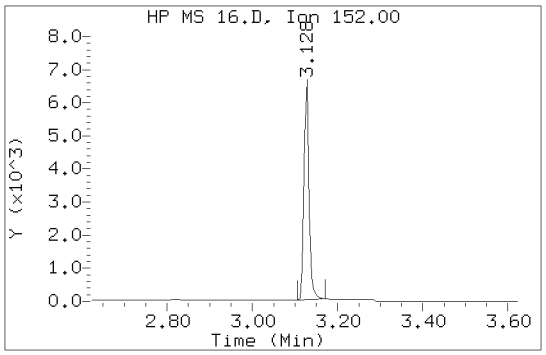
BEFORE

MASS
152
AREA
5292
HEIGHT
6650
16-Jun-2023
16:37
ALSHS
Server



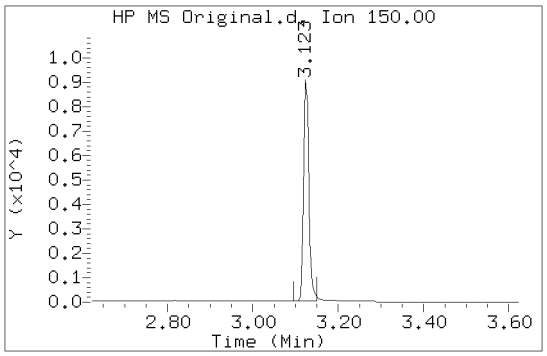
AFTER

MASS
152
AREA
5295
HEIGHT
6641
29-Jun-2023
14:27
ALSHS
Ser



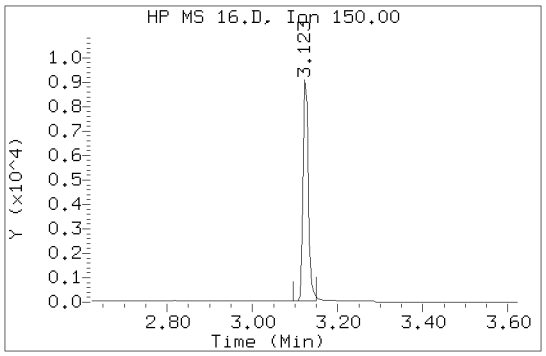
BEFORE

MASS
150
AREA
7668
HEIGHT
9050
16-Jun-2023
16:37
ALSHS
Server



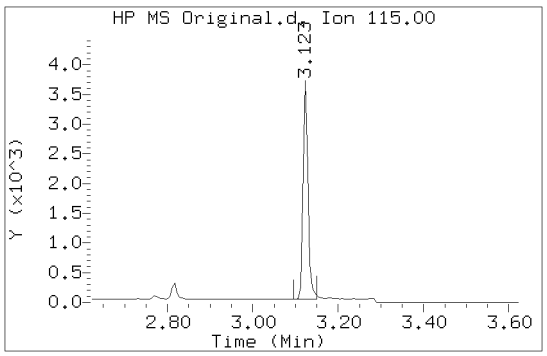
AFTER

MASS
150
AREA
7668
HEIGHT
9050
29-Jun-2023
14:27
ALSHS
Ser



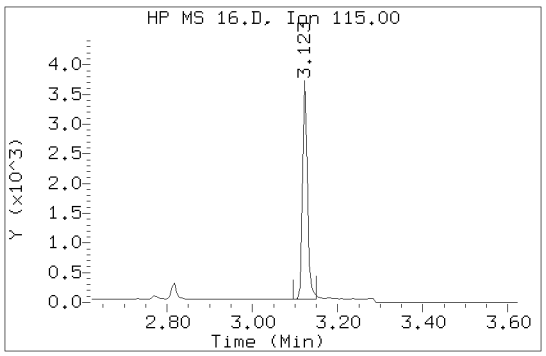
BEFORE

MASS
115
AREA
2824
HEIGHT
3676
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
115
AREA
2824
HEIGHT
3676
29-Jun-2023
14:27
ALSHS
Ser

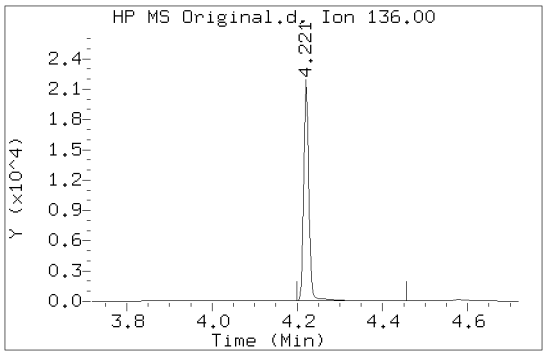


Naphthalene-d8 (1146-65-2)

Reason Code:

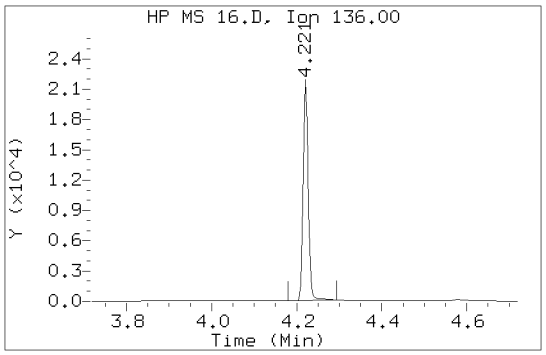
BEFORE

MASS
136
AREA
18147
HEIGHT
21880
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
136
AREA
17725
HEIGHT
21858
29-Jun-2023
14:27
ALSHS
Ser



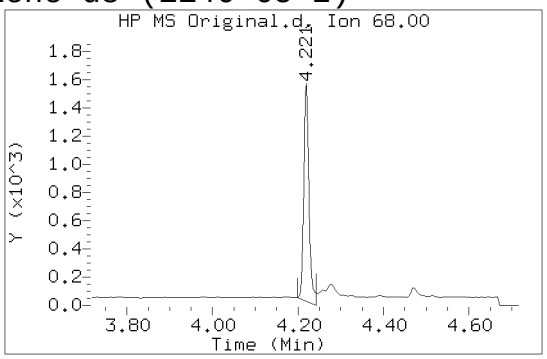
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

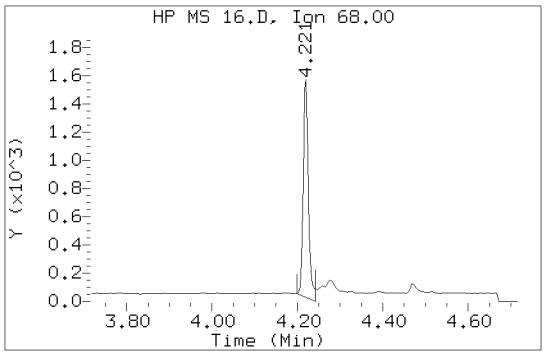
BEFORE

MASS
68
AREA
1351
HEIGHT
1544
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
68
AREA
1351
HEIGHT
1544
29-Jun-2023
14:27
ALSHS
Ser

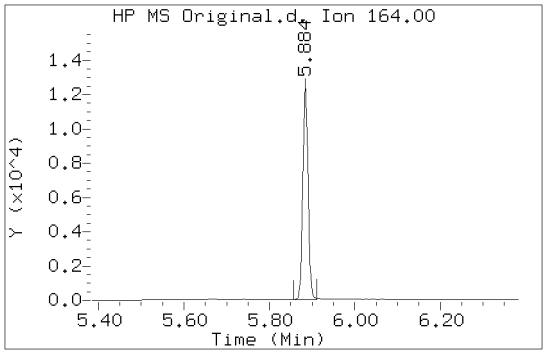


Acenaphthene-d10 (15067-26-2)

Reason Code:

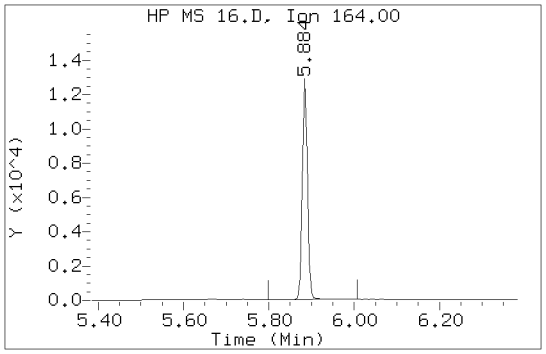
BEFORE

MASS
164
AREA
10322
HEIGHT
12879
16-Jun-2023
16:37
ALSHS
Server



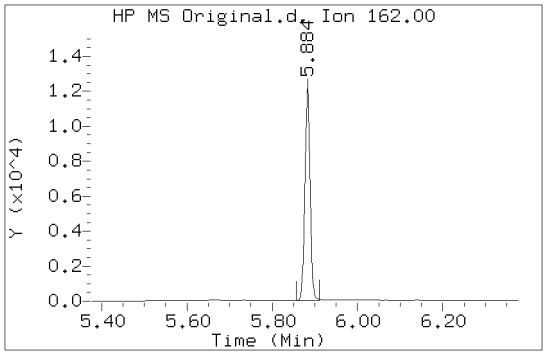
AFTER

MASS
164
AREA
10379
HEIGHT
12877
29-Jun-2023
14:27
ALSHS
Ser



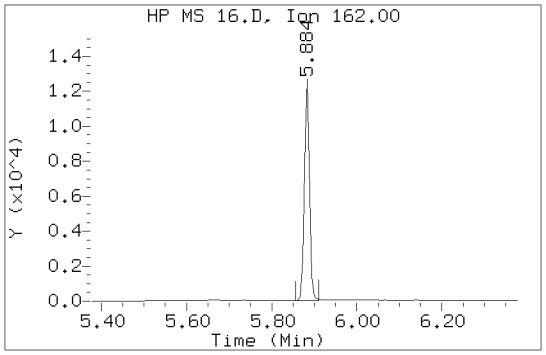
BEFORE

MASS
162
AREA
10387
HEIGHT
12657
16-Jun-2023
16:37
ALSHS
Server



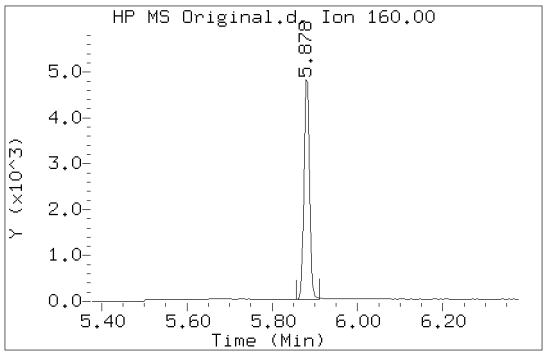
AFTER

MASS
162
AREA
10387
HEIGHT
12657
29-Jun-2023
14:27
ALSHS
Ser



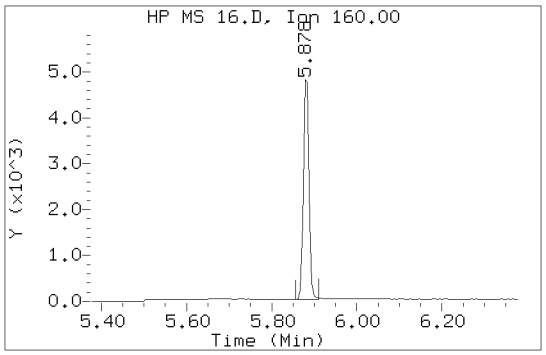
BEFORE

MASS
160
AREA
4356
HEIGHT
4785
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
160
AREA
4356
HEIGHT
4785
29-Jun-2023
14:27
ALSHS
Ser



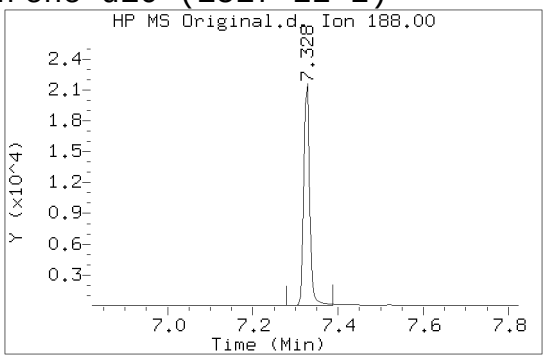
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

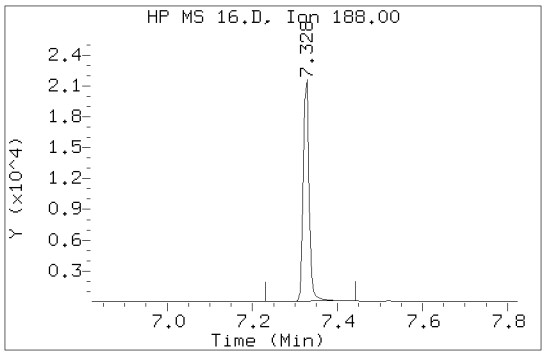
BEFORE

MASS
188
AREA
20554
HEIGHT
21579
16-Jun-2023
16:37
ALSHS
Server



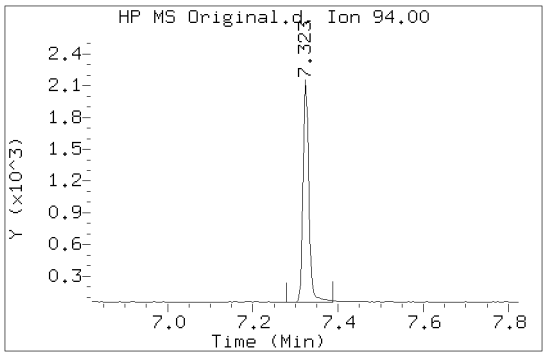
AFTER

MASS
188
AREA
20505
HEIGHT
21562
29-Jun-2023
14:27
ALSHS
Ser



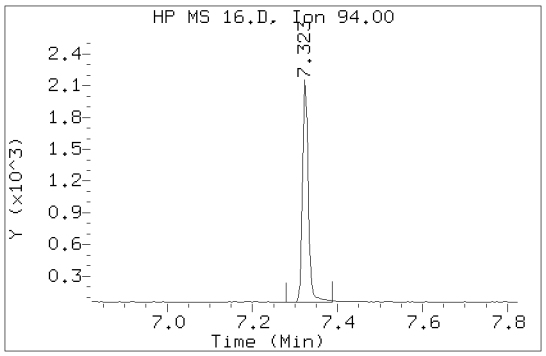
BEFORE

MASS
94
AREA
1950
HEIGHT
2099
16-Jun-2023
16:37
ALSHS
Server



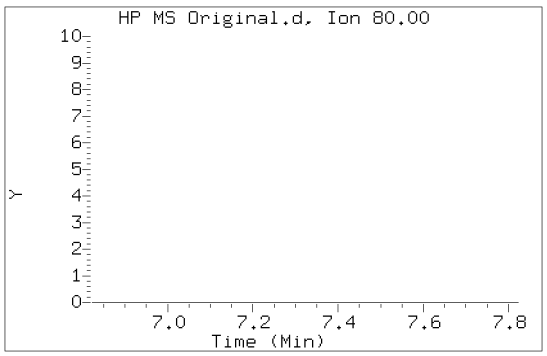
AFTER

MASS
94
AREA
1950
HEIGHT
2099
29-Jun-2023
14:27
ALSHS
Ser



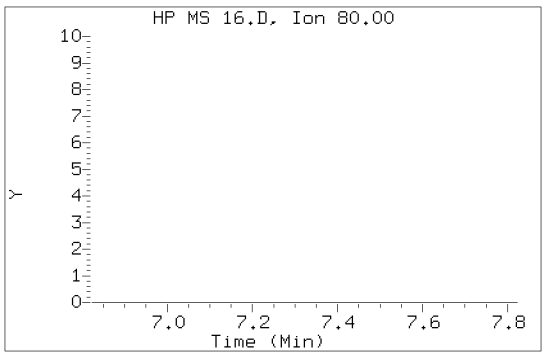
BEFORE

MASS
80
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser

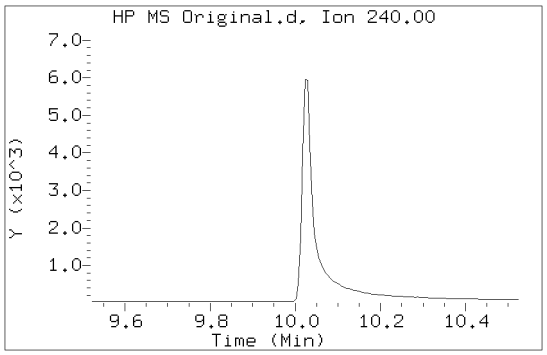


Chrysene-d12 (1719-03-5)

Reason Code:

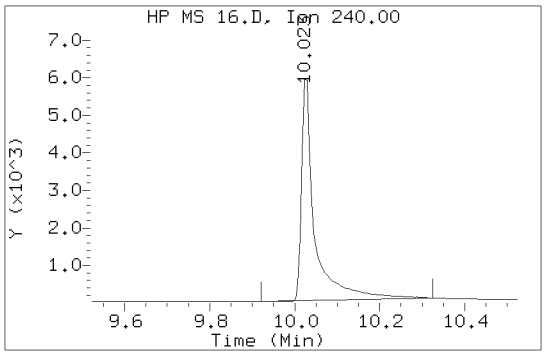
BEFORE

MASS
240
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
240
AREA
12662
HEIGHT
5881
29-Jun-2023
14:27
ALSHS
Ser



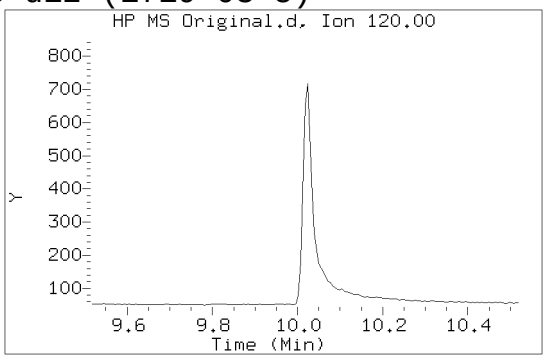
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

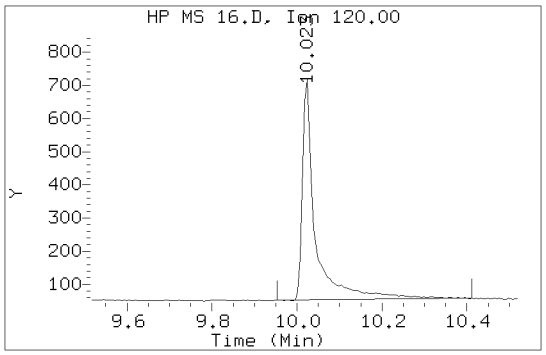
BEFORE

MASS
120
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



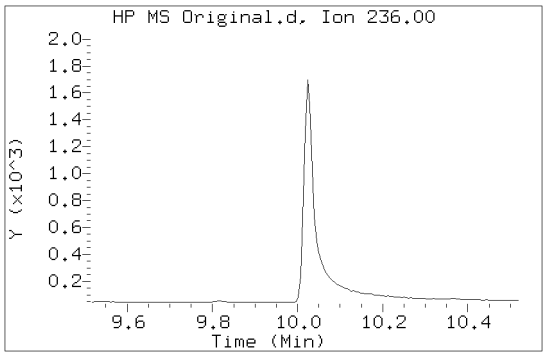
AFTER

MASS
120
AREA
1417
HEIGHT
664
29-Jun-2023
14:27
ALSHS
Ser



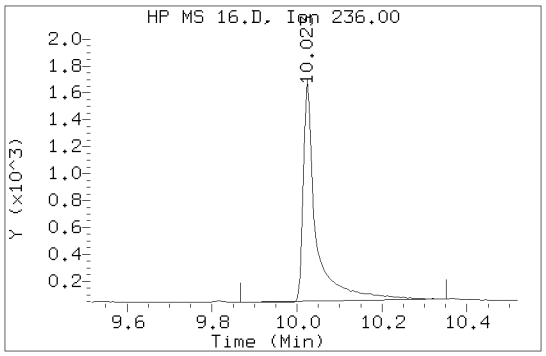
BEFORE

MASS
236
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
236
AREA
3367
HEIGHT
1641
29-Jun-2023
14:27
ALSHS
Ser

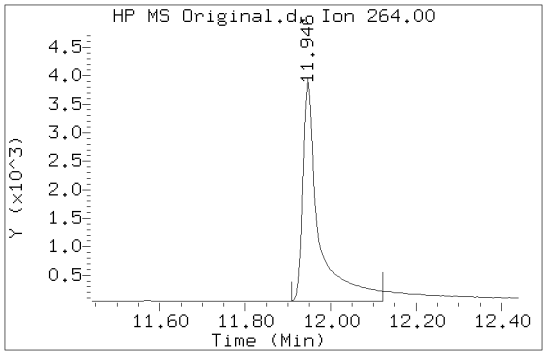


Perylene-d12 (1520-96-3)

Reason Code:

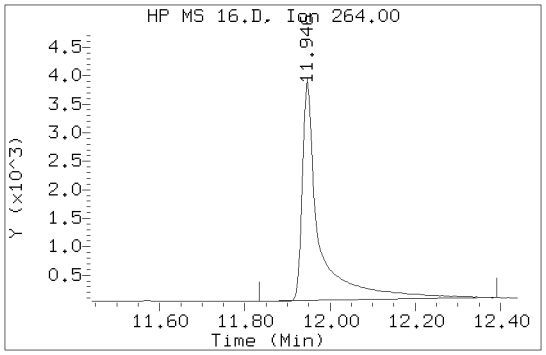
BEFORE

MASS
264
AREA
10066
HEIGHT
3896
16-Jun-2023
16:37
ALSHS
Server



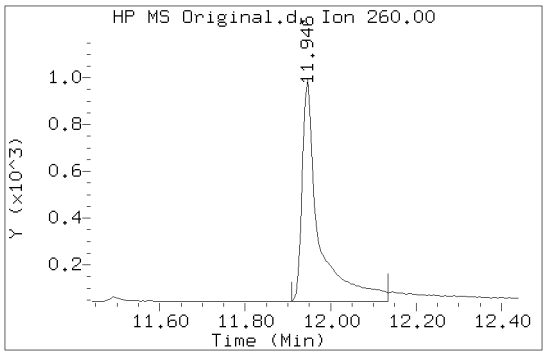
AFTER

MASS
264
AREA
10635
HEIGHT
3885
29-Jun-2023
14:27
ALSHS
Ser



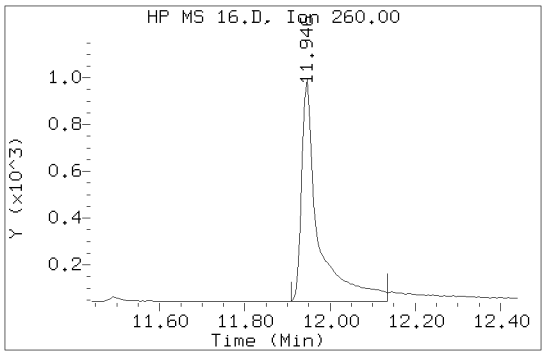
BEFORE

MASS
260
AREA
2544
HEIGHT
947
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
260
AREA
2544
HEIGHT
947
29-Jun-2023
14:27
ALSHS
Ser



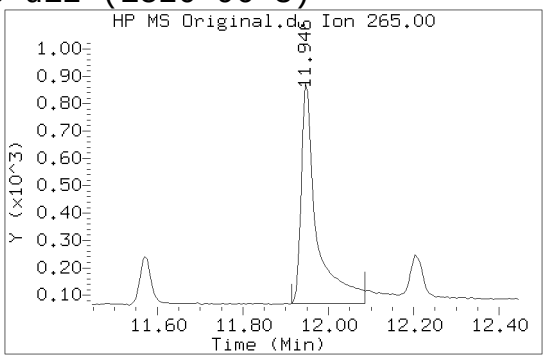
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Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Perylene-d12 (1520-96-3)

Reason Code:

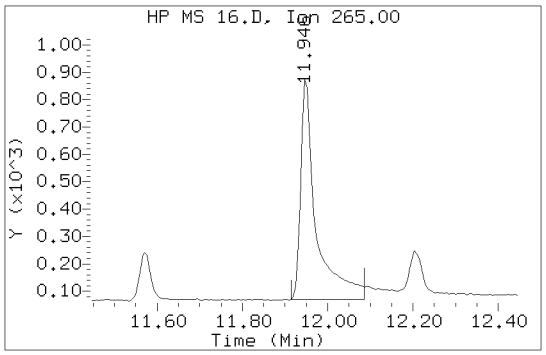
BEFORE

MASS
265
AREA
2015
HEIGHT
803
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
265
AREA
2015
HEIGHT
803
29-Jun-2023
14:27
ALSHS
Ser

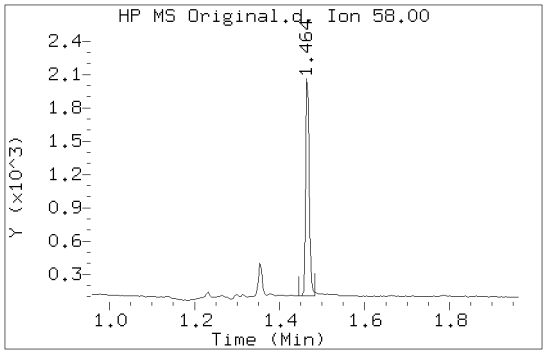


1,4-Dioxane ()

Reason Code:

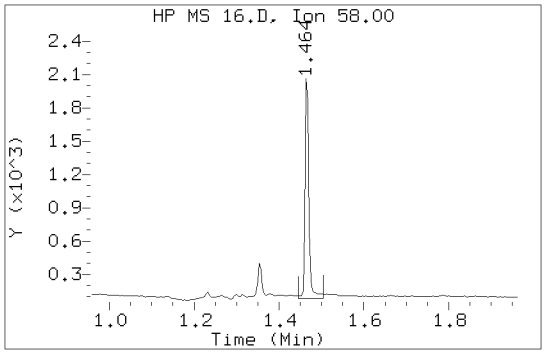
BEFORE

MASS
58
AREA
1149
HEIGHT
1956
16-Jun-2023
16:37
ALSHS
Server



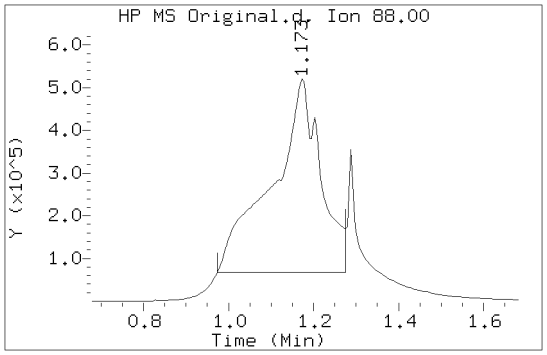
AFTER

MASS
58
AREA
1261
HEIGHT
1979
29-Jun-2023
14:27
ALSHS
Ser



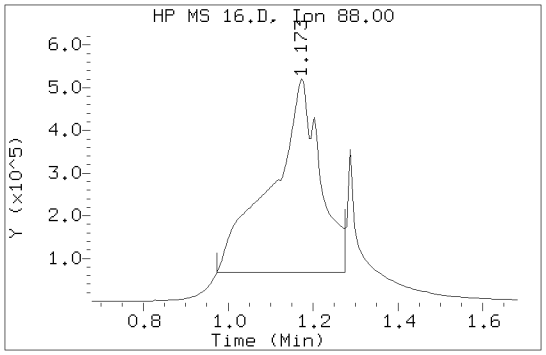
BEFORE

MASS
88
AREA
3609729
HEIGHT
452352
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
88
AREA
3609729
HEIGHT
452352
29-Jun-2023
14:27
ALSHS
Ser

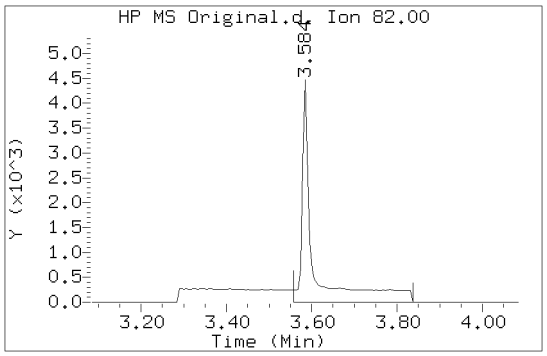


Nitrobenzene-d5 (4165-60-0)

Reason Code:

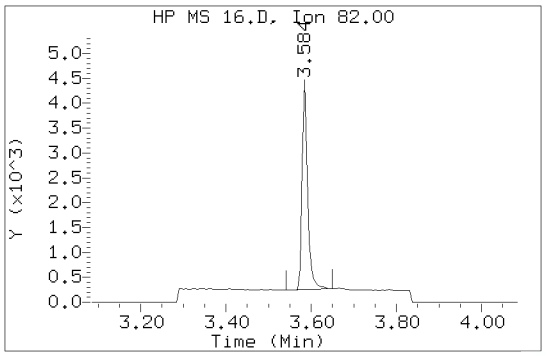
BEFORE

MASS
82
AREA
8001
HEIGHT
4469
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
82
AREA
3797
HEIGHT
4214
29-Jun-2023
14:27
ALSHS
Ser



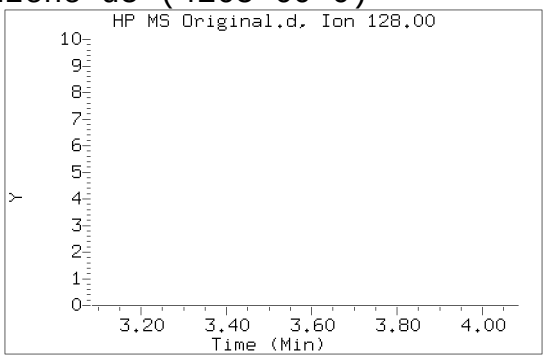
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

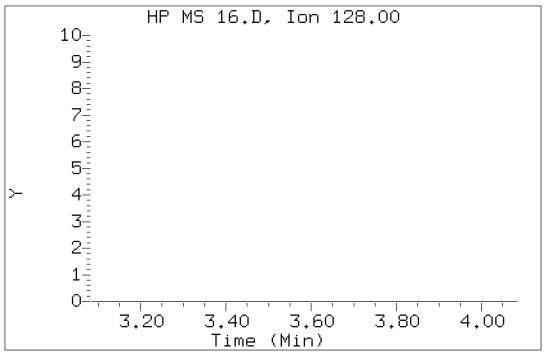
BEFORE

MASS
128
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



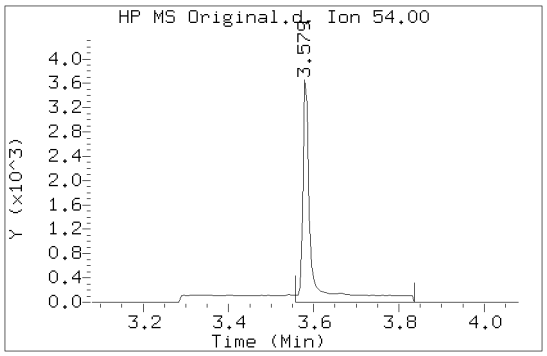
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Jun-2023
14:27
ALSHS
Ser



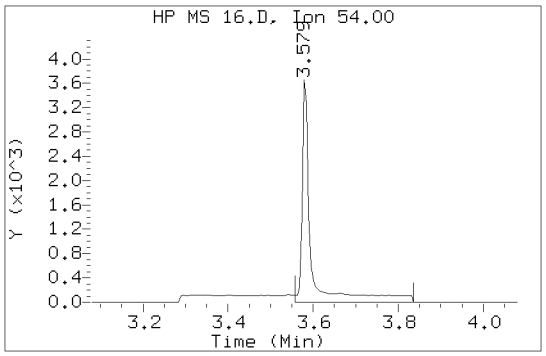
BEFORE

MASS
54
AREA
5382
HEIGHT
3655
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
54
AREA
5382
HEIGHT
3655
29-Jun-2023
14:27
ALSHS
Ser

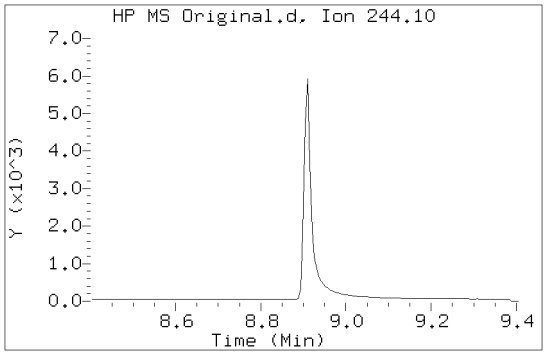


4-Terphenyl-d14 (1718-51-0)

Reason Code:

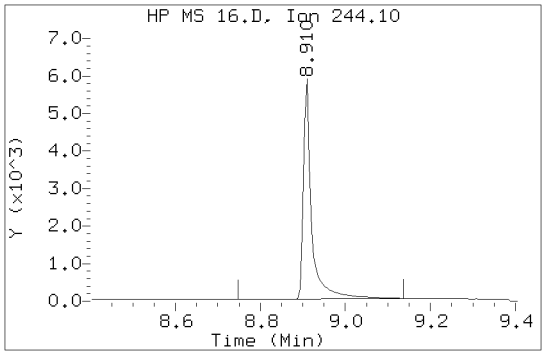
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



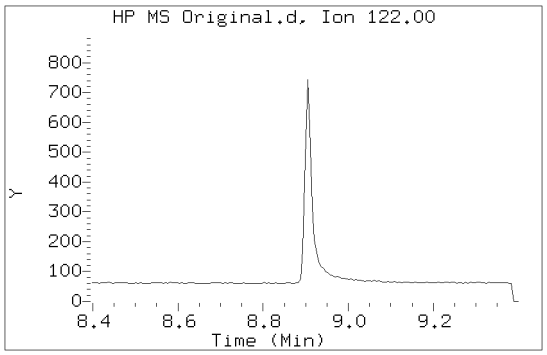
AFTER

MASS
244.1
AREA
7743
HEIGHT
5864
29-Jun-2023
14:27
ALSHS
Ser



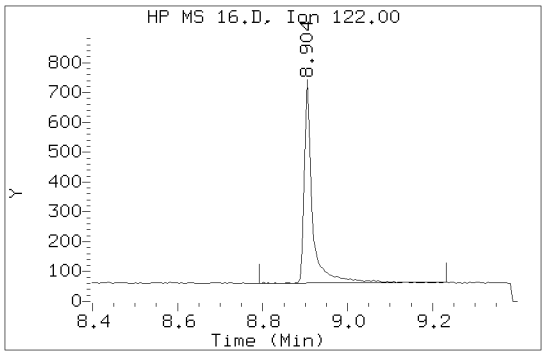
BEFORE

MASS
122
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
122
AREA
889
HEIGHT
681
29-Jun-2023
14:27
ALSHS
Ser



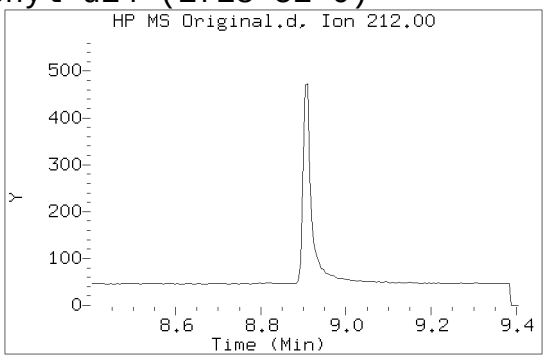
Data File : \\NAHSTWS005\Target\chem\SV6.i\230616.b\16.D
Inj Date : 16-JUN-2023 16:22
InstruID : SV6.i
LabSampID : 14DXICV-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

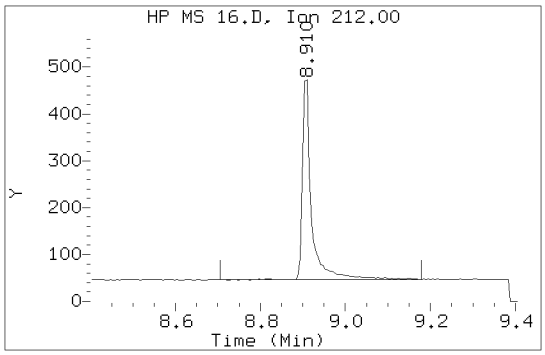
BEFORE

MASS
212
AREA
0
HEIGHT
0
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
212
AREA
632
HEIGHT
426
29-Jun-2023
14:27
ALSHS
Ser

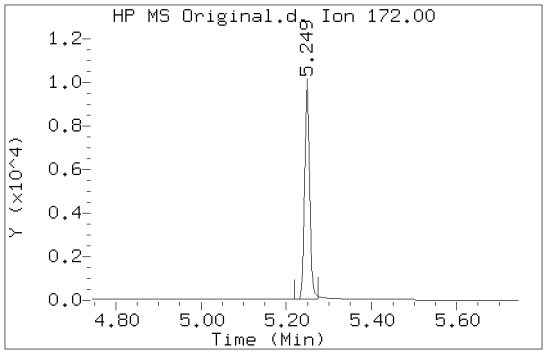


2-Fluorobiphenyl (321-60-8)

Reason Code:

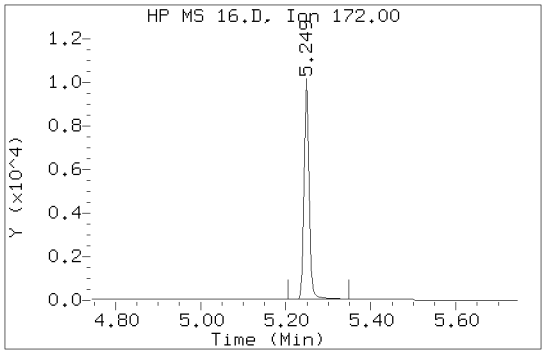
BEFORE

MASS
172
AREA
8416
HEIGHT
10125
16-Jun-2023
16:37
ALSHS
Server



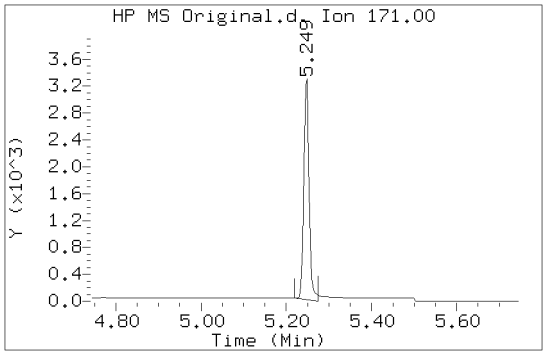
AFTER

MASS
172
AREA
8542
HEIGHT
10120
29-Jun-2023
14:27
ALSHS
Ser



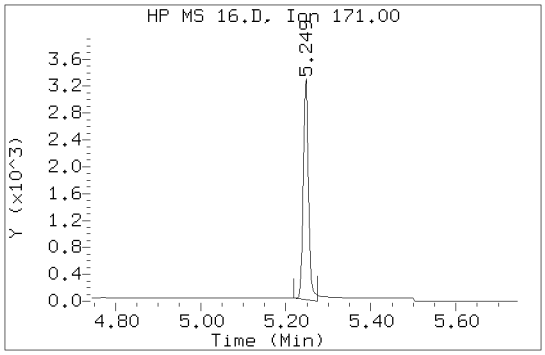
BEFORE

MASS
171
AREA
2911
HEIGHT
3286
16-Jun-2023
16:37
ALSHS
Server



AFTER

MASS
171
AREA
2911
HEIGHT
3286
29-Jun-2023
14:27
ALSHS
Ser



01251580

right solutions.
right partner.

Raw Data SV 6 444955

Semi-Volatiles by Semivolatiles SIM

Workorder

HS23081076

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

08/29/2023

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\230828.b\01.D Page 1
Report Date: 28-Aug-2023 10:59

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230828.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 28-AUG-2023 10:46
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230828.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 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: NAHSTW7053

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		
5.357	5.726	-0.369	198	251808			0.00- 100.00	100.00
5.357	6.357	-1.000	51	123688			10.00- 80.00	49.12
5.357	6.357	-1.000	68	1473			0.00- 2.00	1.47
5.357	6.357	-1.000	69	100504			0.00- 0.00	39.91
5.357	6.357	-1.000	70	487			0.00- 2.00	0.48
5.357	6.357	-1.000	127	127216			10.00- 80.00	50.52
5.357	6.357	-1.000	197	1362			0.00- 2.00	0.54
5.357	6.357	-1.000	199	17090			5.00- 9.00	6.79
5.357	6.357	-1.000	275	62888			10.00- 60.00	24.97
5.357	6.357	-1.000	365	8561			1.00- 100.00	3.40
5.357	6.357	-1.000	441	32116			0.01- 99.99	75.79
5.357	6.357	-1.000	442	218884			50.00- 150.00	86.92
5.357	6.357	-1.000	443	42376			15.00- 24.00	19.36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	49.12
68	Less than 2.00% of mass 69	0.58 (1.47)
69	Mass 69 relative abundance	39.91
70	Less than 2.00% of mass 69	0.19 (0.48)
127	10.00 - 80.00% of mass 198	50.52
197	Less than 2.00% of mass 198	0.54
199	5.00 - 9.00% of mass 198	6.79
275	10.00 - 60.00% of mass 198	24.97
365	1.00 - 100.00% of mass 198	3.40
441	Present, but less than mass 443	12.75
442	50.00 - 150.00% of mass 198	86.92
443	15.00 - 24.00% of mass 442	16.83 (19.36)

Data File: 01.D
Spectrum: Average Spectrum: 5.352 to 5.358 min. (SUB)
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	121	125.00	1655	199.00	17088	284.00	458
37.00	372	126.00	559	200.00	1376	285.00	1026
38.00	1464	127.00	127216	201.00	1002	286.00	103
39.00	7122	128.00	9402	203.00	1779	289.00	119
40.00	287	129.00	48032	204.00	9852	290.00	143
41.00	211	130.00	4295	205.00	16167	292.00	245
45.00	246	131.00	788	206.00	66408	293.00	1135
49.00	651	132.00	355	207.00	8417	294.00	289
50.00	29608	133.00	90	208.00	2176	295.00	340
51.00	123688	134.00	1280	209.00	679	296.00	19080
52.00	6135	135.00	3726	210.00	1031	297.00	2607
53.00	252	136.00	1548	211.00	2781	298.00	98
55.00	436	137.00	1962	212.00	292	301.00	251
56.00	2931	138.00	443	213.00	181	302.00	297
57.00	8117	139.00	203	215.00	711	303.00	2131
58.00	392	140.00	499	216.00	1424	304.00	579
61.00	1275	141.00	5593	217.00	18840	308.00	224
62.00	1520	142.00	2053	218.00	2498	309.00	98
63.00	4600	143.00	1416	219.00	140	310.00	258
64.00	634	144.00	420	221.00	12104	313.00	81
65.00	2418	145.00	290	222.00	2533	314.00	789
66.00	75	146.00	1043	223.00	4399	315.00	1967
68.00	1473	147.00	3041	224.00	39584	316.00	1154
69.00	100504	148.00	8428	225.00	10073	317.00	252
70.00	487	149.00	1550	226.00	1021	321.00	588
73.00	752	150.00	366	227.00	16109	322.00	253
74.00	10941	151.00	730	228.00	2190	323.00	6035
75.00	16912	152.00	316	229.00	3583	324.00	1154
76.00	7216	153.00	1977	230.00	484	326.00	85
77.00	139328	154.00	1326	231.00	1318	327.00	1191
78.00	9411	155.00	3617	232.00	230	328.00	597
79.00	6941	156.00	5343	233.00	337	332.00	460
80.00	5474	157.00	972	234.00	898	333.00	524
81.00	8356	158.00	926	235.00	1296	334.00	3772
82.00	2032	159.00	867	236.00	930	335.00	940
83.00	2084	160.00	1865	237.00	1402	336.00	97
84.00	157	161.00	2786	238.00	212	341.00	717
85.00	1584	162.00	839	239.00	610	342.00	131
86.00	2104	163.00	268	240.00	475	346.00	1306
87.00	989	164.00	324	241.00	878	347.00	189
88.00	425	165.00	2012	242.00	2021	352.00	1715
89.00	210	166.00	1899	243.00	2153	353.00	1176
91.00	1565	167.00	15805	244.00	29904	354.00	1638
92.00	1769	168.00	7437	245.00	3871	355.00	300
93.00	13484	169.00	1231	246.00	5658	359.00	96

94.00	852	170.00	376	247.00	1081	365.00	8561
95.00	267	171.00	530	248.00	304	366.00	1285
96.00	617	172.00	1037	249.00	1046	370.00	112
97.00	223	173.00	1365	250.00	238	371.00	470
98.00	10623	174.00	2730	251.00	189	372.00	3112
99.00	8076	175.00	5412	252.00	278	373.00	769
100.00	705	176.00	1200	253.00	641	383.00	897
101.00	4933	177.00	2115	254.00	1055	384.00	242
102.00	212	178.00	743	255.00	146368	390.00	392
103.00	1154	179.00	9493	256.00	21368	391.00	264
104.00	2524	180.00	6790	257.00	1742	392.00	146
105.00	2711	181.00	3279	258.00	8433	401.00	107
106.00	913	182.00	479	259.00	1347	402.00	1179
107.00	41344	183.00	195	260.00	227	403.00	1603
108.00	6339	184.00	708	261.00	102	404.00	657
109.00	948	185.00	4526	264.00	209	405.00	76
110.00	63568	186.00	37128	265.00	3413	421.00	1467
111.00	10384	187.00	10362	266.00	536	422.00	1341
112.00	1359	188.00	1084	270.00	205	423.00	10633
113.00	431	189.00	1951	271.00	297	424.00	2315
116.00	1749	190.00	275	272.00	398	425.00	292
117.00	37656	191.00	920	273.00	4671	441.00	32112
118.00	2615	192.00	3116	274.00	11571	442.00	218880
119.00	285	193.00	3490	275.00	62888	443.00	42376
120.00	518	194.00	760	276.00	8394	444.00	3744
121.00	158	195.00	470	277.00	5855	445.00	244
122.00	1979	196.00	6539	278.00	957		
123.00	3587	197.00	1362	279.00	198		
124.00	1731	198.00	251776	283.00	578		

Data File: \\nahstws005\Target\chem\SV6.i\230828.b\01.D

Date : 28-AUG-2023 10:46

Client ID: DFTPP

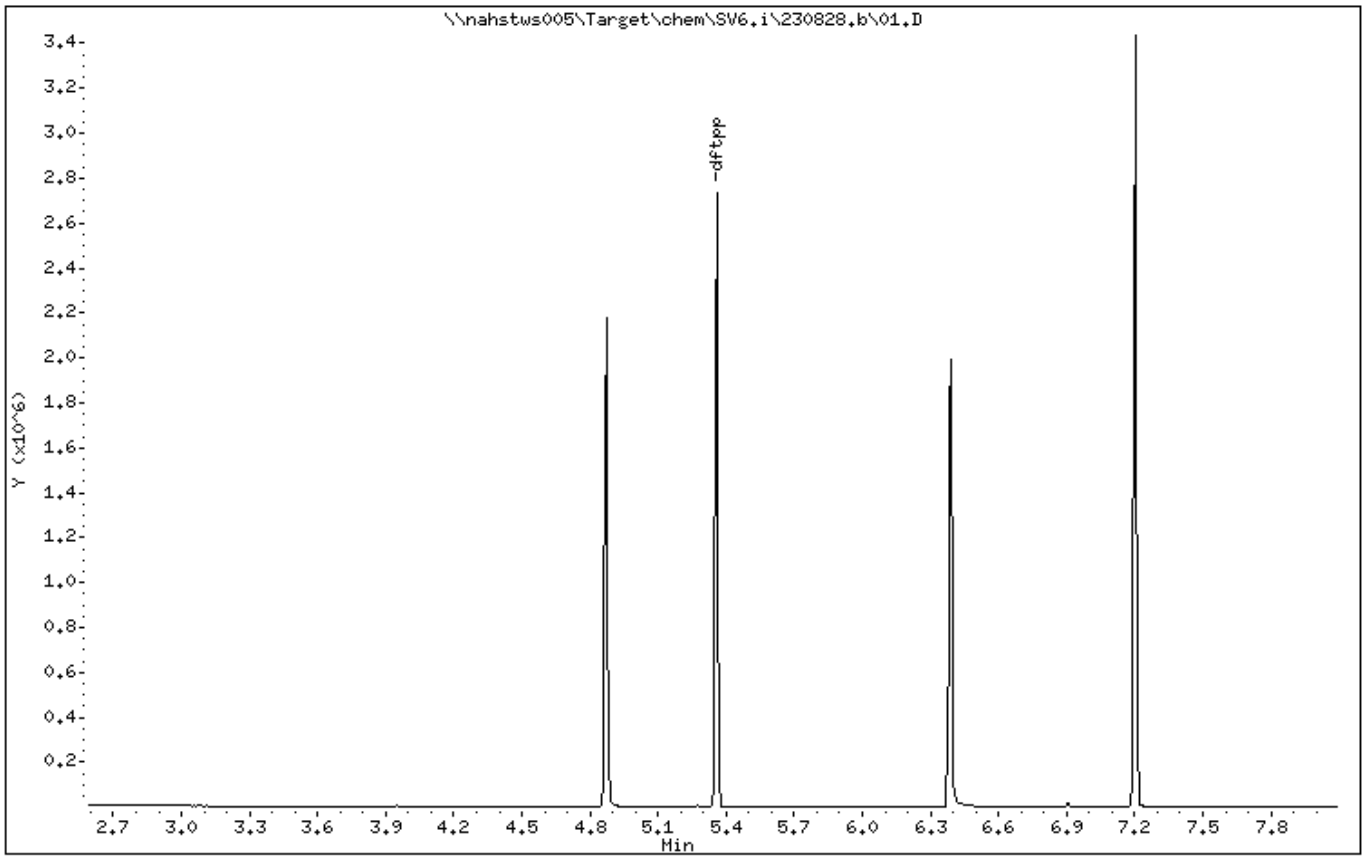
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\nahstws005\Target\chem\SV6.i\230828.b\01.D

Date : 28-AUG-2023 10:46

Client ID: DFTPP

Instrument: SV6.i

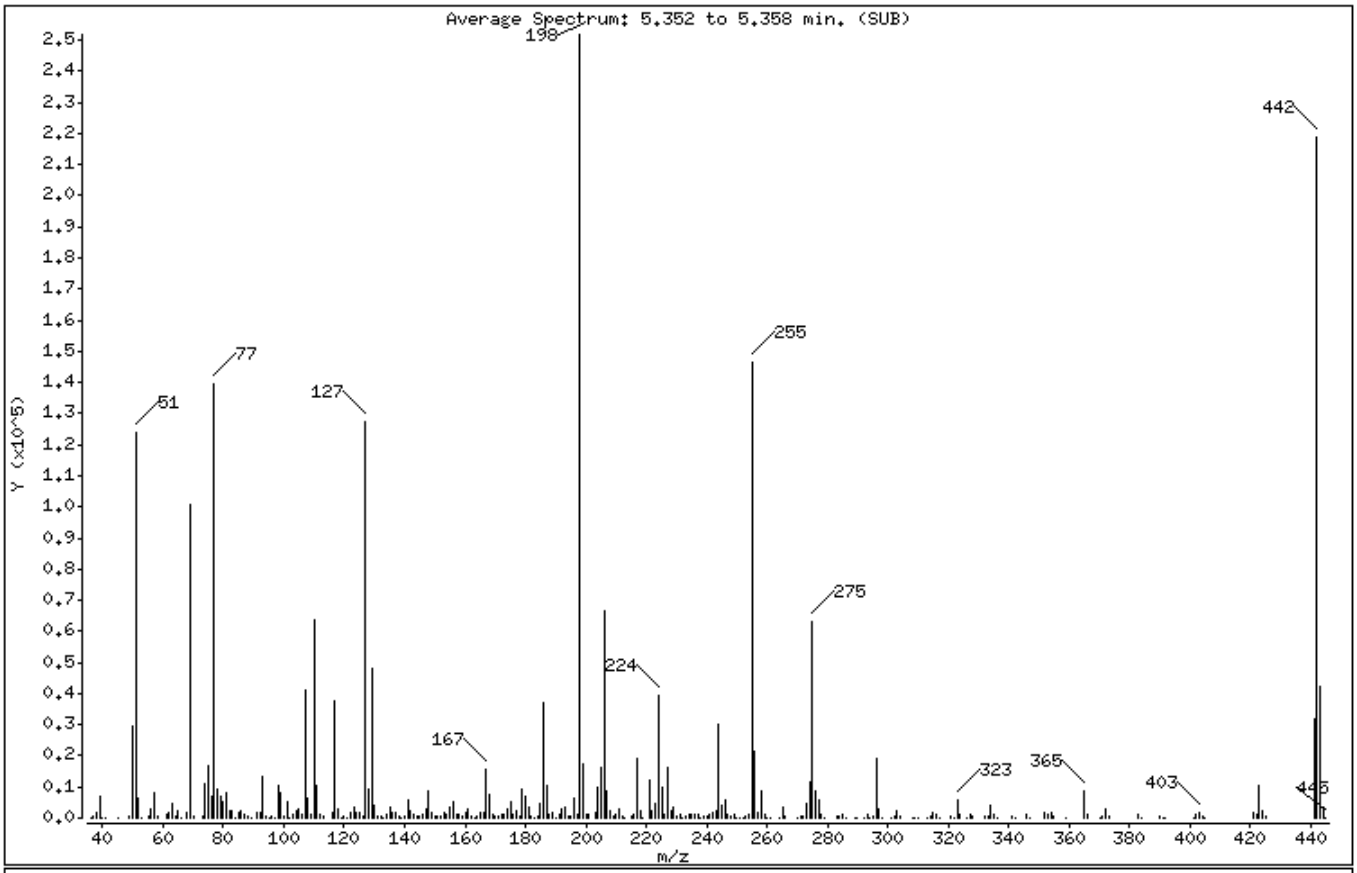
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
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Data File: \\nahstws005\Target\chem\SV6.i\230828.b\01.D Page 3

Date : 28-AUG-2023 10:46

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: 5.352 to 5.358 min. (SUB)
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
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74.00	10941	151.00	730	228.00	2190	323.00	6035
75.00	16912	152.00	316	229.00	3583	324.00	1154
76.00	7216	153.00	1977	230.00	484	326.00	85
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80.00	5474	157.00	972	234.00	898	333.00	524
81.00	8356	158.00	926	235.00	1296	334.00	3772
82.00	2032	159.00	867	236.00	930	335.00	940

Data File: \\nahstws005\Target\chem\SV6.i\230828.b\01.D

Date : 28-AUG-2023 10:46

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: 5.352 to 5.358 min. (SUB)
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
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85.00	1584	162.00	839	239.00	610	342.00	131
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89.00	210	166.00	1899	243.00	2153	353.00	1176
91.00	1565	167.00	15805	244.00	29904	354.00	1638
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105.00	2711	181.00	3279	258.00	8433	401.00	107
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110.00	63568	186.00	37128	265.00	3413	421.00	1467
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118.00	2615	192.00	3116	274.00	11571	442.00	218880
119.00	285	193.00	3490	275.00	62888	443.00	42376
120.00	518	194.00	760	276.00	8394	444.00	3744

Date : 28-AUG-2023 10:46

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: 5.352 to 5.358 min. (SUB)
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	158	195.00	470	277.00	5855	445.00	244
122.00	1979	196.00	6539	278.00	957		
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Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\03.D Page 1
Report Date: 29-Aug-2023 15:28

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\03.D
Lab Smp Id: 1 4DX-0.08
Inj Date : 28-AUG-2023 11:34
Operator : LG Inst ID: SV6.i
Smp Info : 1 4DX-0.08;;2
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 15:28 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
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	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	3.671	3.671	(1.000)	5673	0.10000	(aQM)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	23582	0.10000	
$ 33 Nitrobenzene-d5	82	4.137	4.137	(0.864)	5345	0.08000	0.07460(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	12257	0.10000	
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	9854	0.08000	0.07862
* 126 Phenanthrene-d10	188	7.937	7.937	(1.000)	22732	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	13198	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.545	9.545	(0.882)	7270	0.08000	0.07466(M)
* 198 Perylene-d12	264	12.958	12.958	(1.000)	9326	0.10000	
1 1,4-Dioxane	58	1.912	1.912	(0.521)	1420	0.08000	0.07377(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.

01251591

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\03.D

Date : 28-AUG-2023 11:34

Client ID:

Instrument: SV6.i

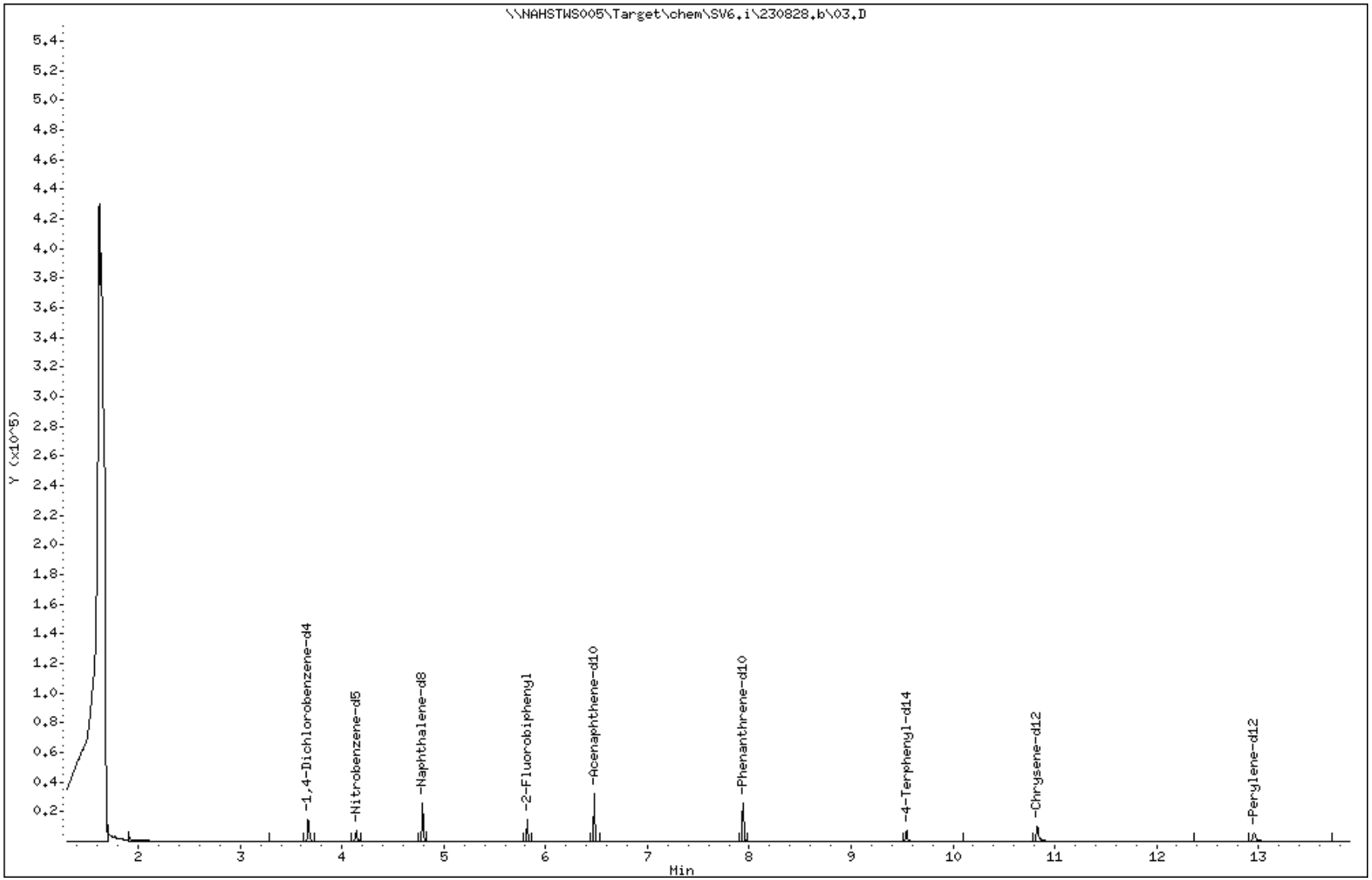
Sample Info: 1 4DX-0.08;;2

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



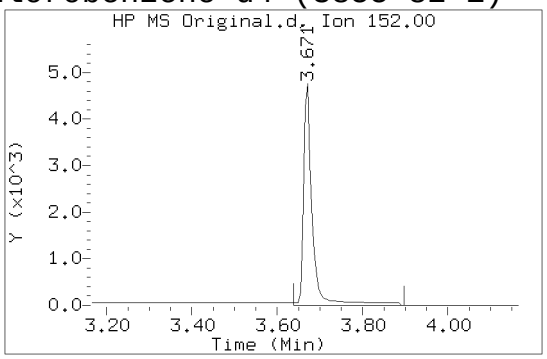
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\03.D
Inj Date : 28-AUG-2023 11:34
InstruID : SV6.i
LabSampID : 1 4DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

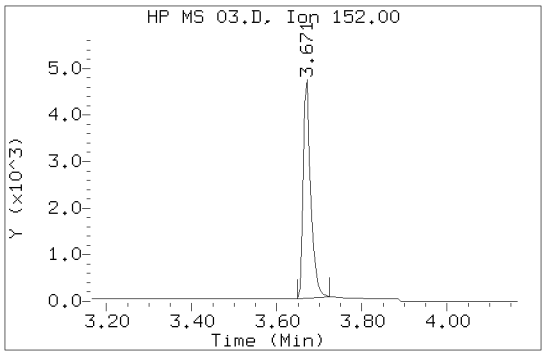
BEFORE

MASS
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AREA
6691
HEIGHT
4759
28-Aug-2023
11:49
ALSHS
Server



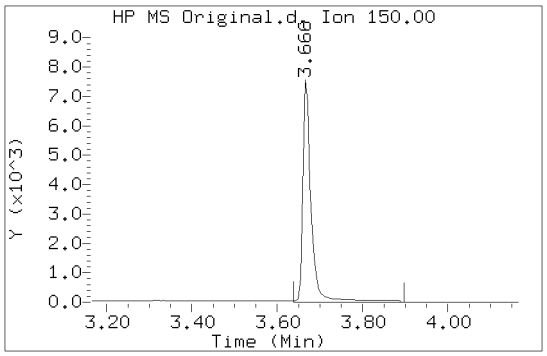
AFTER

MASS
152
AREA
5673
HEIGHT
4694
29-Aug-2023
15:28
ALSHS
Ser



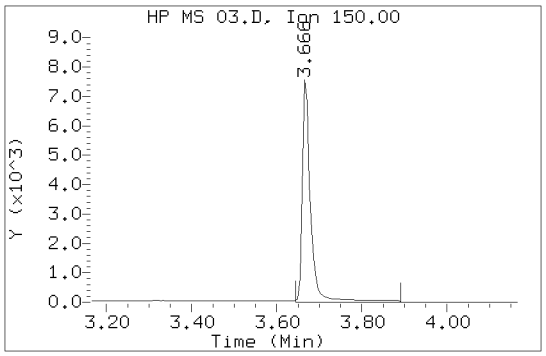
BEFORE

MASS
150
AREA
10190
HEIGHT
7562
28-Aug-2023
11:49
ALSHS
Server



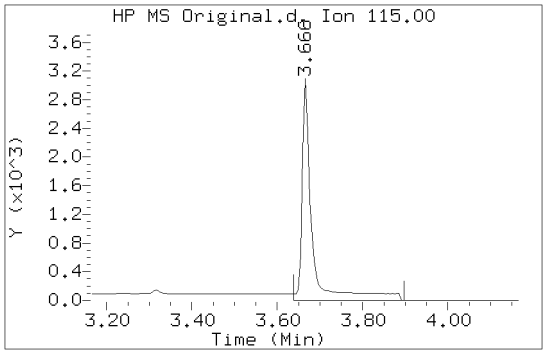
AFTER

MASS
150
AREA
10173
HEIGHT
7562
29-Aug-2023
15:28
ALSHS
Ser



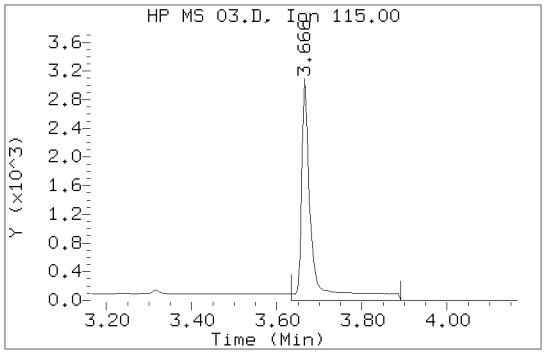
BEFORE

MASS
115
AREA
5000
HEIGHT
3094
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
115
AREA
5029
HEIGHT
3094
29-Aug-2023
15:28
ALSHS
Ser

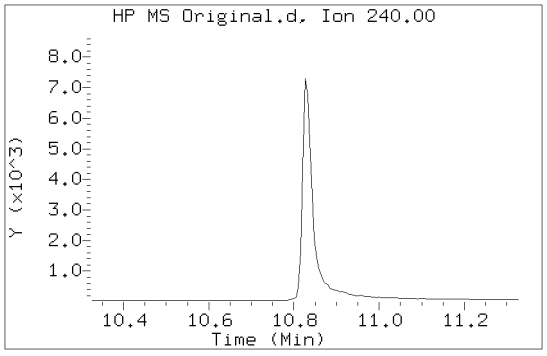


Chrysene-d12 (1719-03-5)

Reason Code:

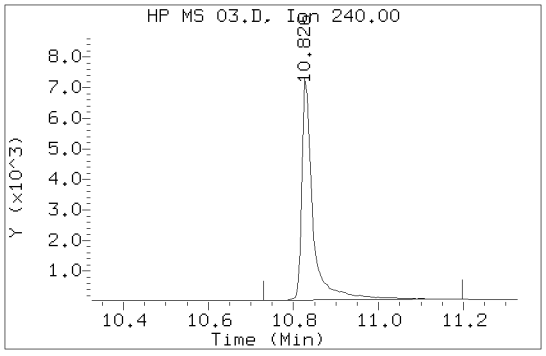
BEFORE

MASS
240
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
240
AREA
13198
HEIGHT
7238
29-Aug-2023
15:28
ALSHS
Ser



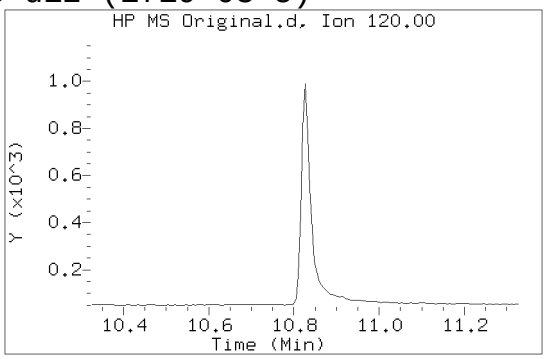
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\03.D
Inj Date : 28-AUG-2023 11:34
InstruID : SV6.i
LabSampID : 1 4DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

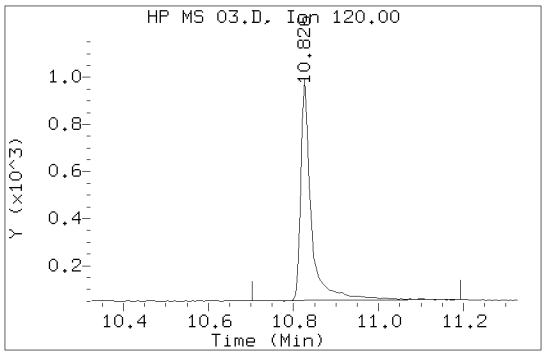
BEFORE

MASS
120
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



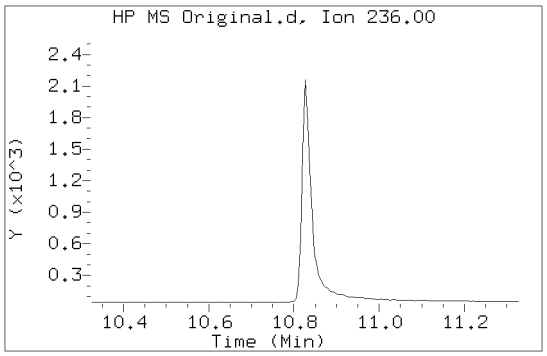
AFTER

MASS
120
AREA
1589
HEIGHT
936
29-Aug-2023
15:28
ALSHS
Ser



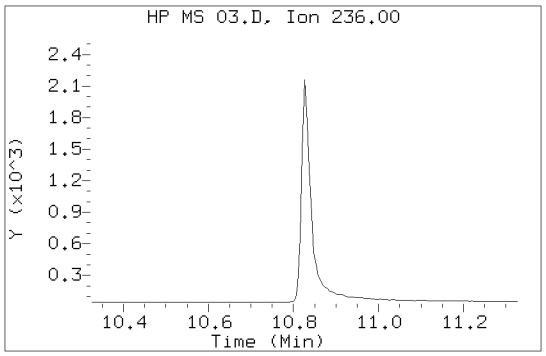
BEFORE

MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
29-Aug-2023
15:28
ALSHS
Ser

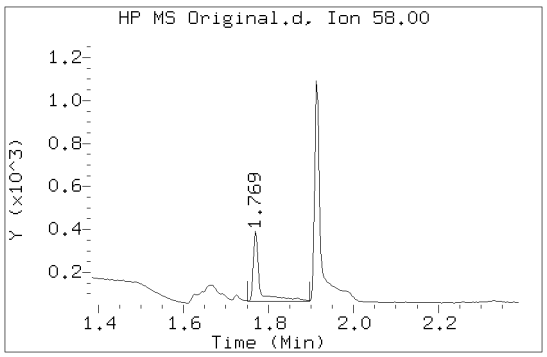


1,4-Dioxane ()

Reason Code:

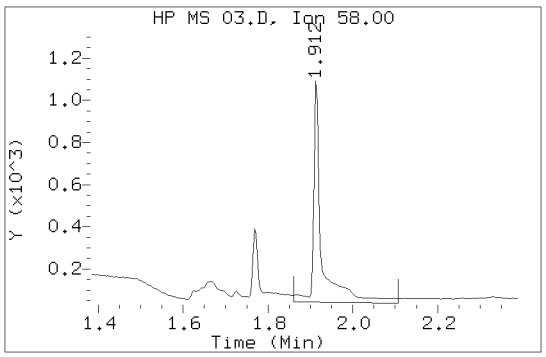
BEFORE

MASS
58
AREA
342
HEIGHT
325
28-Aug-2023
11:49
ALSHS
Server



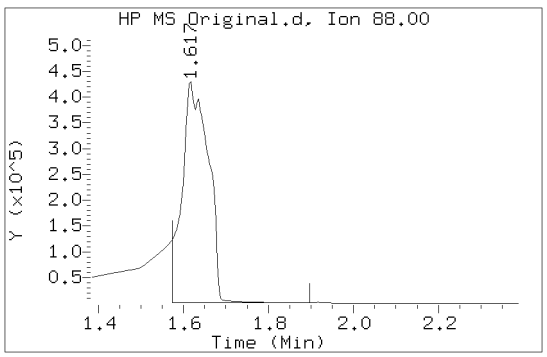
AFTER

MASS
58
AREA
1420
HEIGHT
1049
29-Aug-2023
15:28
ALSHS
Ser



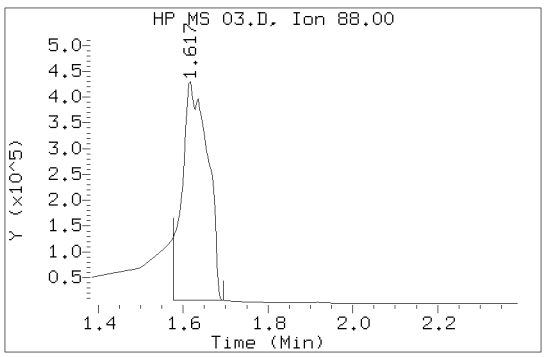
BEFORE

MASS
88
AREA
1862910
HEIGHT
428792
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
88
AREA
1780167
HEIGHT
423519
29-Aug-2023
15:28
ALSHS
Ser



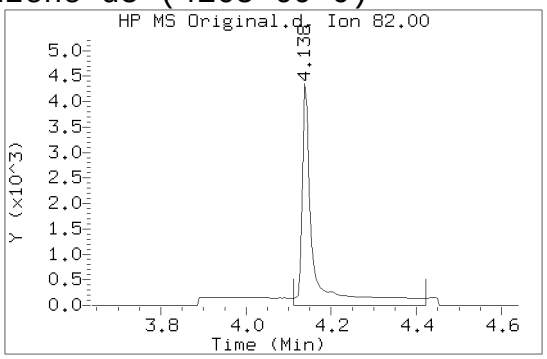
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\03.D
Inj Date : 28-AUG-2023 11:34
InstruID : SV6.i
LabSampID : 1 4DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

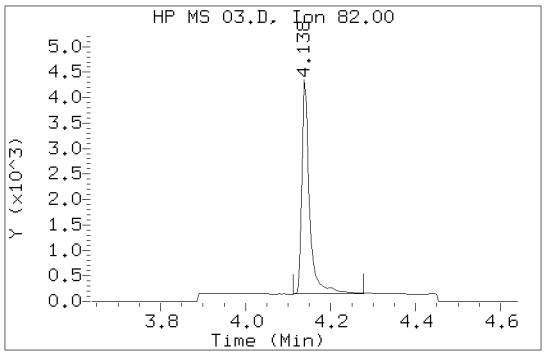
BEFORE

MASS
82
AREA
8139
HEIGHT
4352
28-Aug-2023
11:49
ALSHS
Server



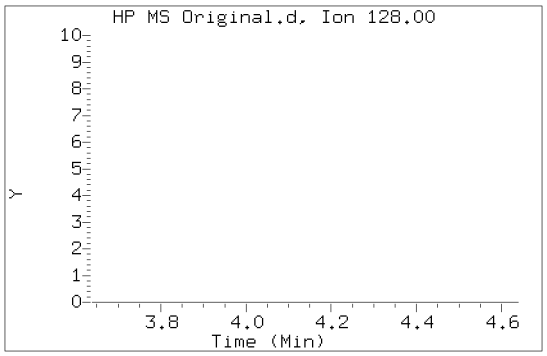
AFTER

MASS
82
AREA
5345
HEIGHT
4206
29-Aug-2023
15:28
ALSHS
Ser



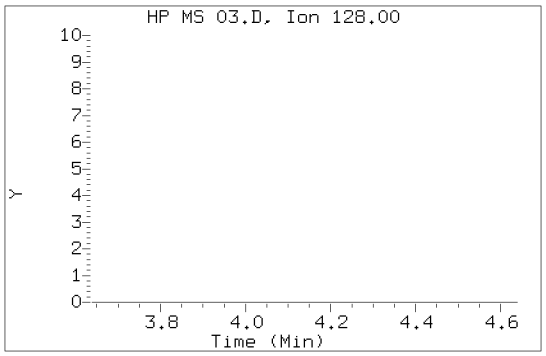
BEFORE

MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



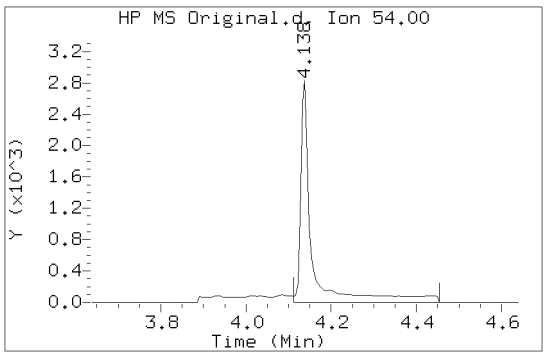
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Aug-2023
15:28
ALSHS
Ser



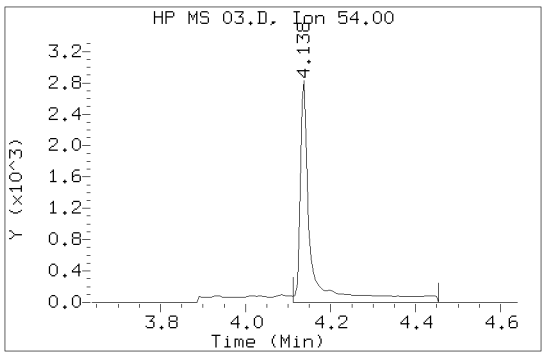
BEFORE

MASS
54
AREA
5165
HEIGHT
2828
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
54
AREA
5165
HEIGHT
2828
29-Aug-2023
15:28
ALSHS
Ser

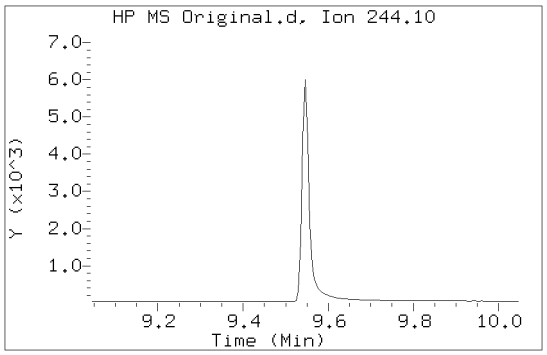


4-Terphenyl-d14 (1718-51-0)

Reason Code:

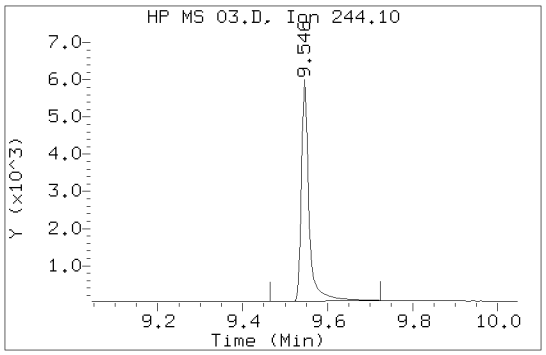
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
244.1
AREA
7270
HEIGHT
5951
29-Aug-2023
15:28
ALSHS
Ser



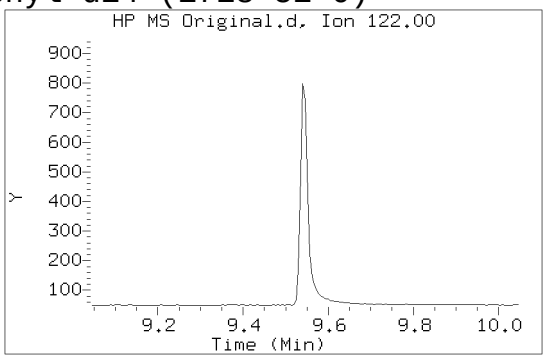
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\03.D
Inj Date : 28-AUG-2023 11:34
InstruID : SV6.i
LabSampID : 1 4DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

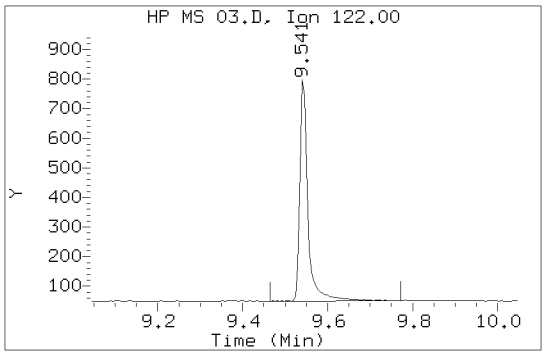
BEFORE

MASS
122
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



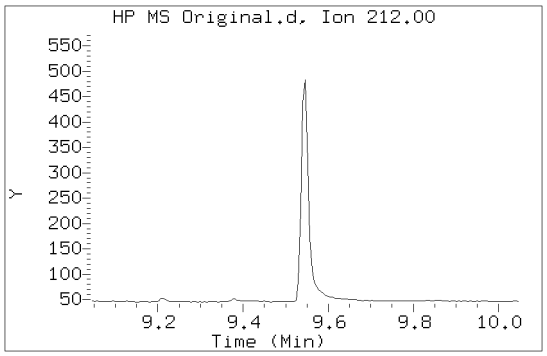
AFTER

MASS
122
AREA
976
HEIGHT
747
29-Aug-2023
15:28
ALSHS
Ser



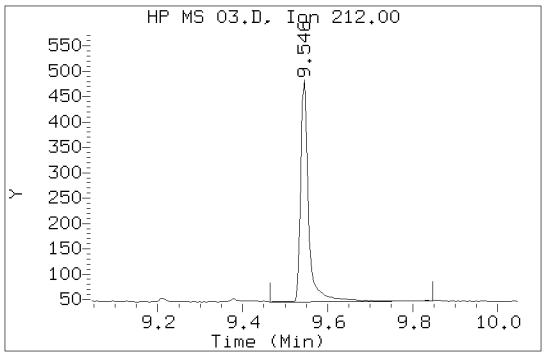
BEFORE

MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
11:49
ALSHS
Server



AFTER

MASS
212
AREA
564
HEIGHT
437
29-Aug-2023
15:28
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D Page 1
Report Date: 29-Aug-2023 15:28

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D
Lab Smp Id: MBLK-199190
Inj Date : 28-AUG-2023 15:23
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-199190;;3;;BLANK
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 15:28 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
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	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	3.665	3.671	(1.000)	5588	0.10000		(a)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	18966	0.10000		
$ 33 Nitrobenzene-d5	82	4.137	4.137	(0.864)	3821	0.06631	0.06631(M)	
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	10316	0.10000		
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	7431	0.07044	0.07044	
* 126 Phenanthrene-d10	188	7.932	7.937	(1.000)	18023	0.10000		
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	10814	0.10000		(M)
$ 158 4-Terphenyl-d14	244	9.540	9.545	(0.881)	7075	0.08868	0.08868(M)	
* 198 Perylene-d12	264	12.953	12.958	(1.000)	7401	0.10000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01251597

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D

Date : 28-AUG-2023 15:23

Client ID:

Instrument: SV6.i

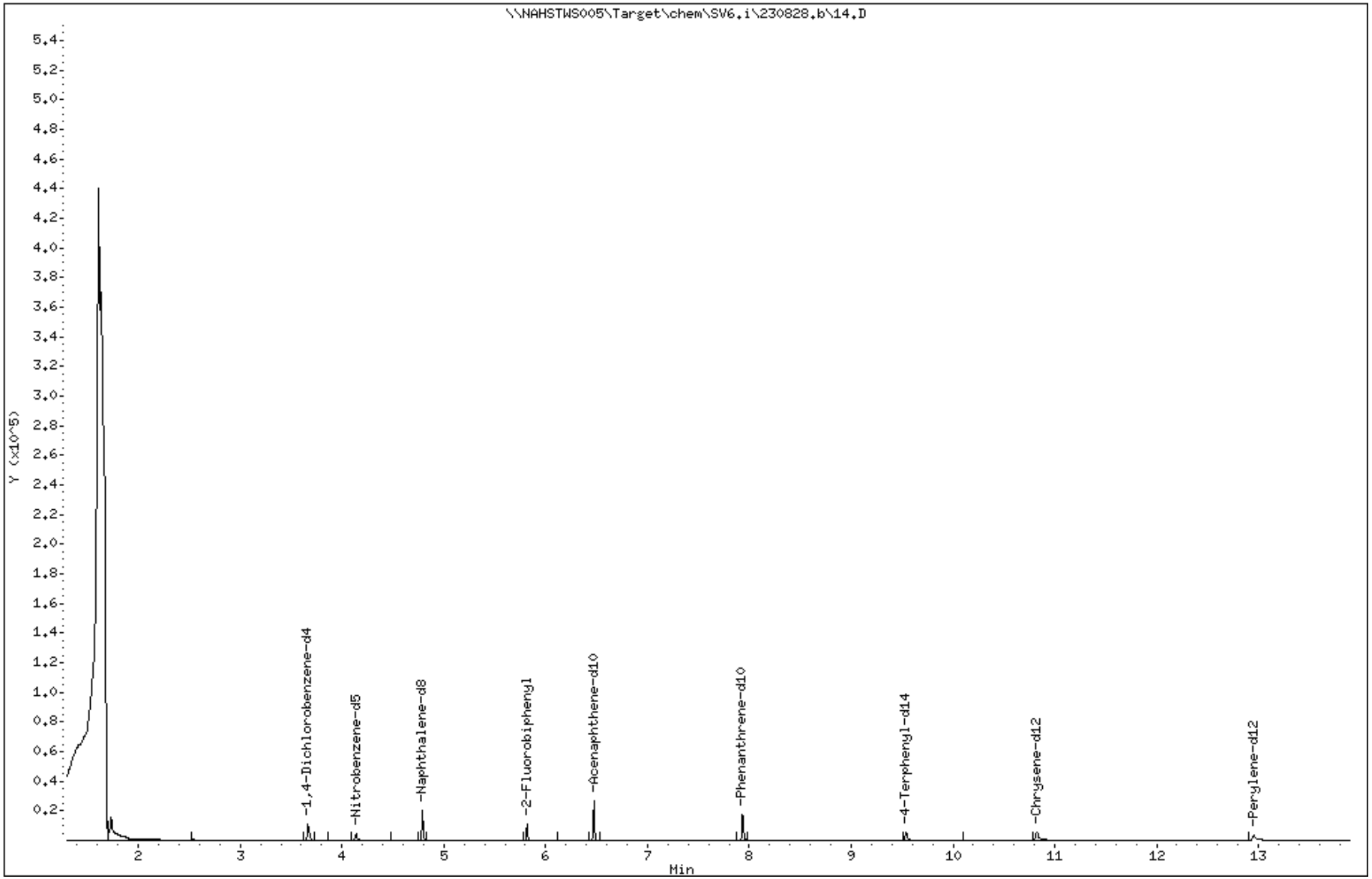
Sample Info: MBLK-199190;;3;;BLANK

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

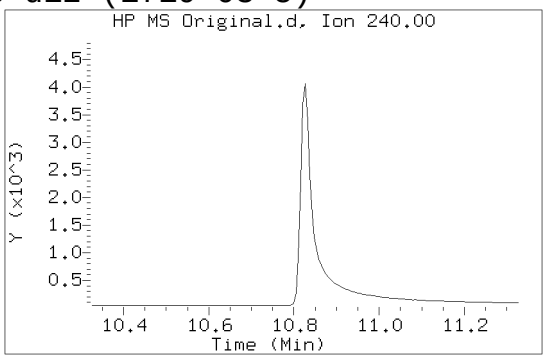


Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D
Inj Date : 28-AUG-2023 15:23
InstruID : SV6.i
LabSampID : MBLK-199190

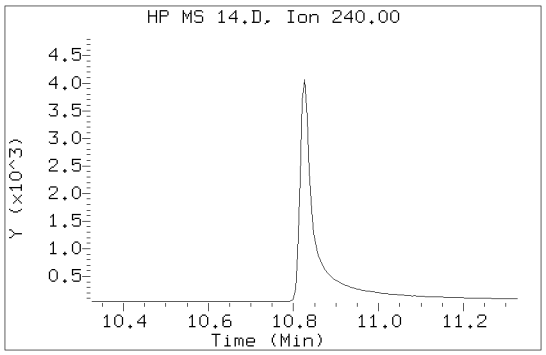
Chrysene-d12 (1719-03-5)

Reason Code:

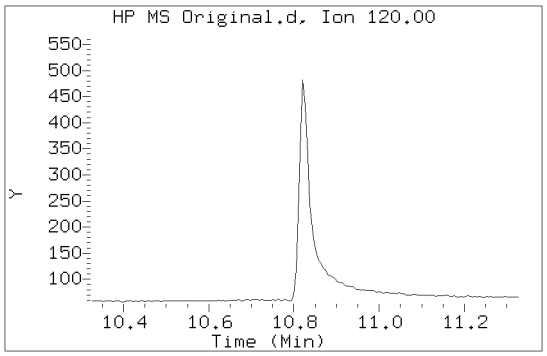
BEFORE
MASS
240
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



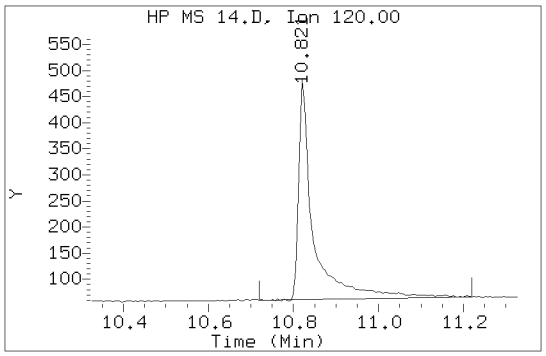
AFTER
MASS
240
AREA
10814
HEIGHT
4009
29-Aug-2023
15:27
ALSHS
Ser



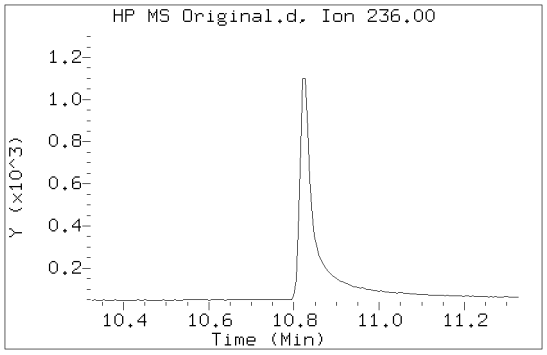
BEFORE
MASS
120
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



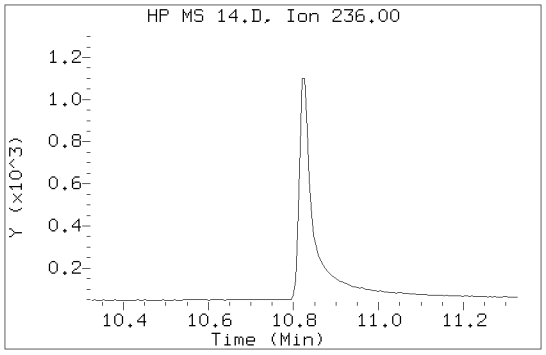
AFTER
MASS
120
AREA
1015
HEIGHT
420
29-Aug-2023
15:27
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



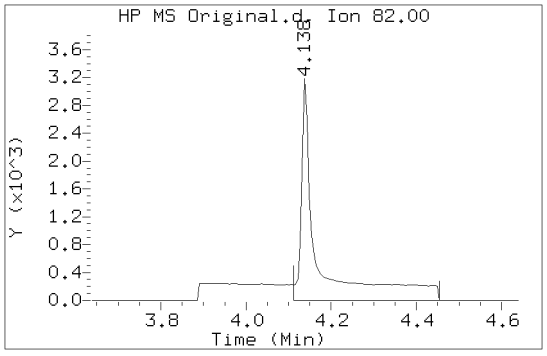
AFTER
MASS
236
AREA
2816
HEIGHT
1046
29-Aug-2023
15:27
ALSHS
Ser



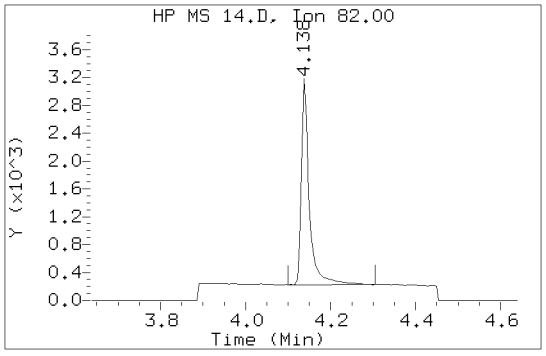
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
8426
HEIGHT
3183
28-Aug-2023
15:39
ALSHS
Server



AFTER
MASS
82
AREA
3821
HEIGHT
2957
29-Aug-2023
15:27
ALSHS
Ser

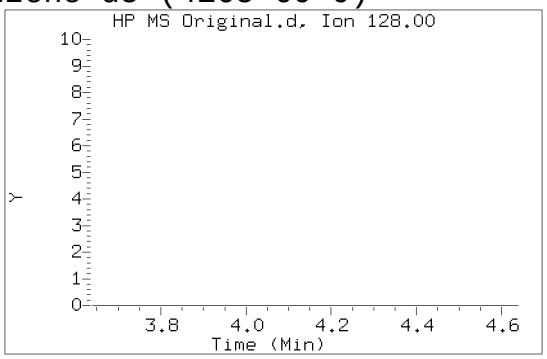


Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D
Inj Date : 28-AUG-2023 15:23
InstruID : SV6.i
LabSampID : MBLK-199190

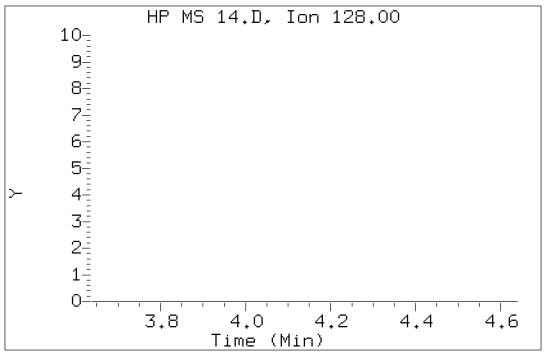
Nitrobenzene-d5 (4165-60-0)

Reason Code:

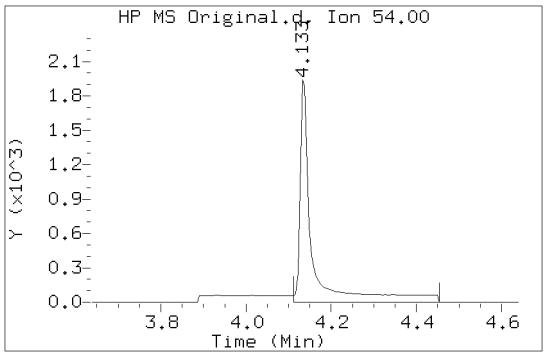
BEFORE
MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



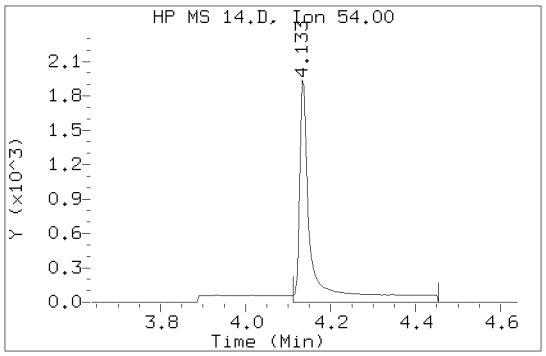
AFTER
MASS
128
AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser



BEFORE
MASS
54
AREA
3869
HEIGHT
1940
28-Aug-2023
15:39
ALSHS
Server



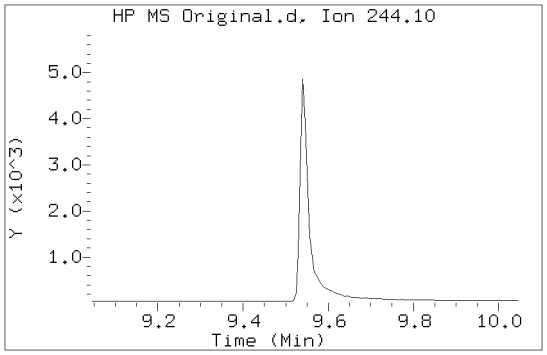
AFTER
MASS
54
AREA
3869
HEIGHT
1940
29-Aug-2023
15:27
ALSHS
Ser



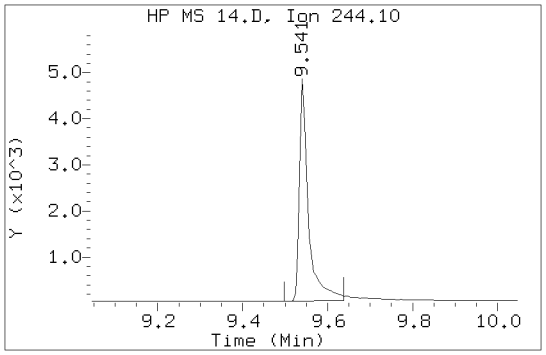
4-Terphenyl-d14 (1718-51-0)

Reason Code:

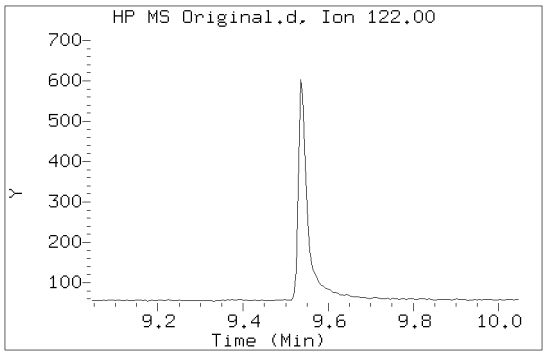
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



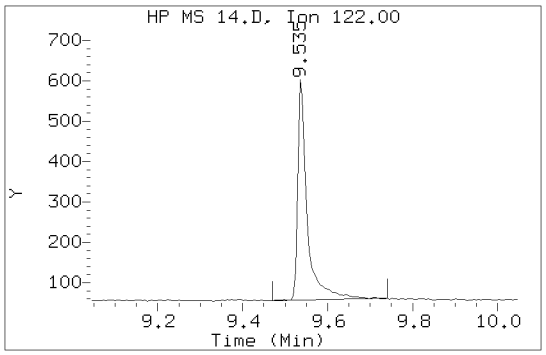
AFTER
MASS
244.1
AREA
7075
HEIGHT
4813
29-Aug-2023
15:27
ALSHS
Ser



BEFORE
MASS
122
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



AFTER
MASS
122
AREA
836
HEIGHT
545
29-Aug-2023
15:27
ALSHS
Ser



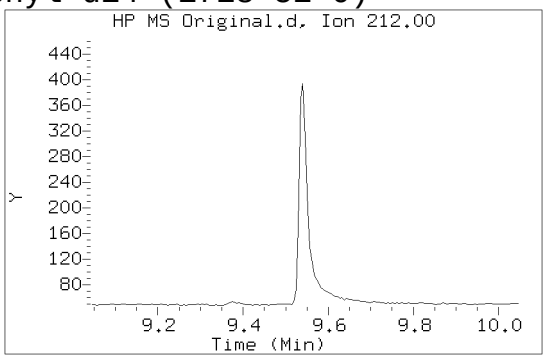
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\14.D
Inj Date : 28-AUG-2023 15:23
InstruID : SV6.i
LabSampID : MBLK-199190

4-Terphenyl-d14 (1718-51-0)

Reason Code:

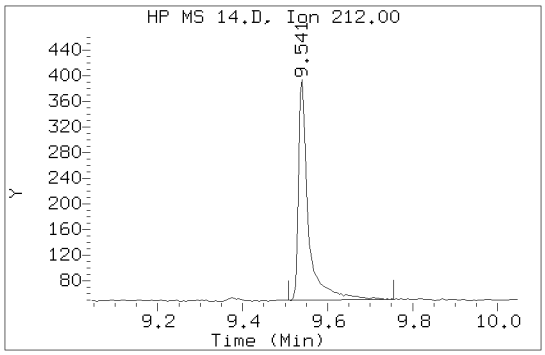
BEFORE

MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
15:39
ALSHS
Server



AFTER

MASS
212
AREA
551
HEIGHT
343
29-Aug-2023
15:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D Page 1
Report Date: 29-Aug-2023 15:28

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Lab Smp Id: LCS1-199190
Inj Date : 28-AUG-2023 15:41
Operator : LG Inst ID: SV6.i
Smp Info : LCS1-199190;;3;;LCS
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 15:28 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
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	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	3.665	3.671	(1.000)	5015	0.10000	(aM)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	22574	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.138	4.137	(0.864)	6753	0.09846	0.09846(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	13305	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	11562	0.08498	0.08498
* 126 Phenanthrene-d10	188	7.932	7.937	(1.000)	19428	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	15703	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.540	9.545	(0.881)	10161	0.08771	0.08771(M)
* 198 Perylene-d12	264	12.953	12.958	(1.000)	7604	0.10000	(M)
1 1,4-Dioxane	58	1.890	1.912	(0.516)	1013	0.05953	0.05953(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01251602

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D

Date : 28-AUG-2023 15:41

Client ID:

Instrument: SV6.i

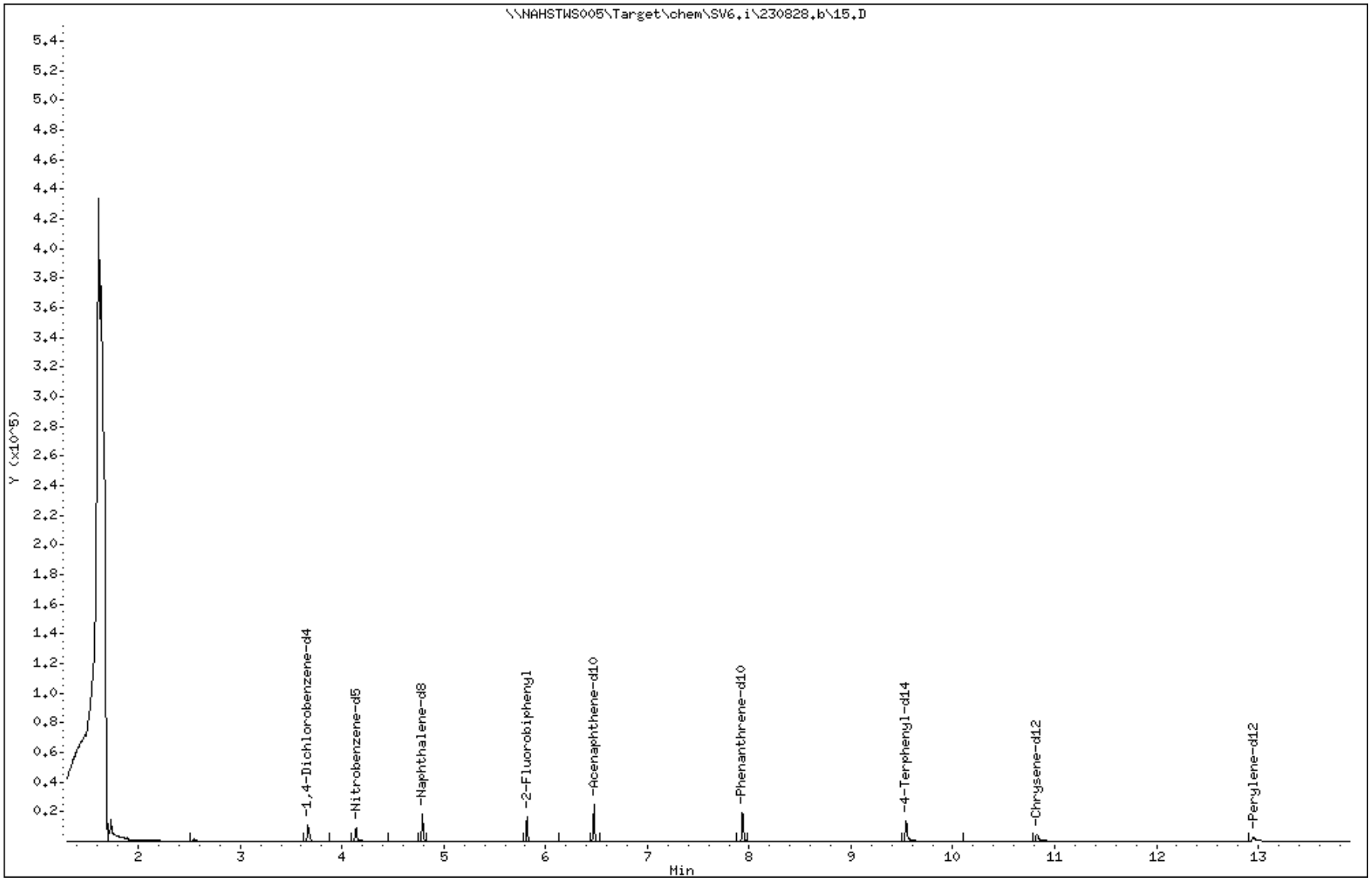
Sample Info: LCS1-199190;;3;;LCS

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



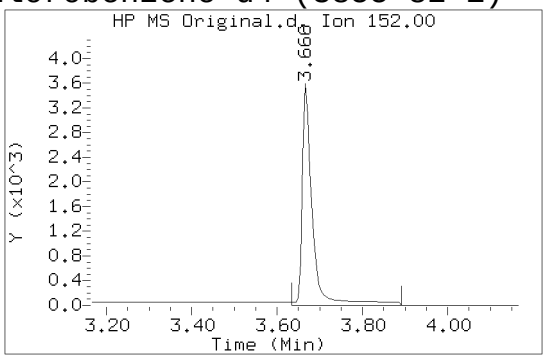
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

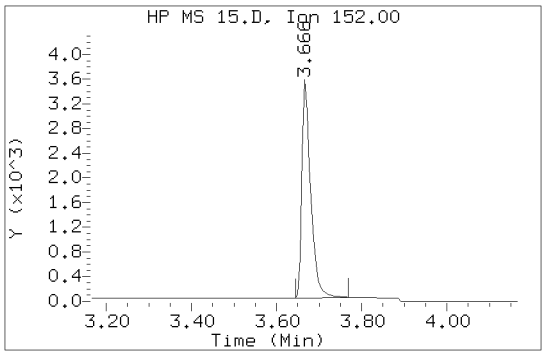
BEFORE

MASS
152
AREA
5896
HEIGHT
3592
28-Aug-2023
17:07
ALSHS
Server



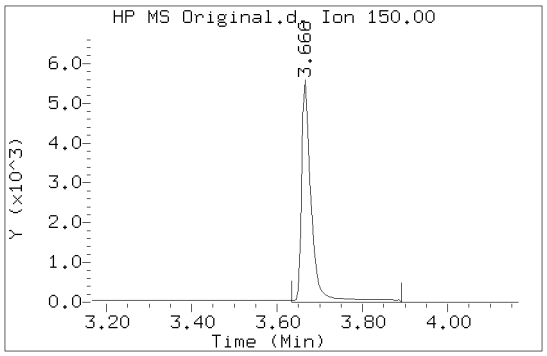
AFTER

MASS
152
AREA
5015
HEIGHT
3539
29-Aug-2023
15:27
ALSHS
Ser



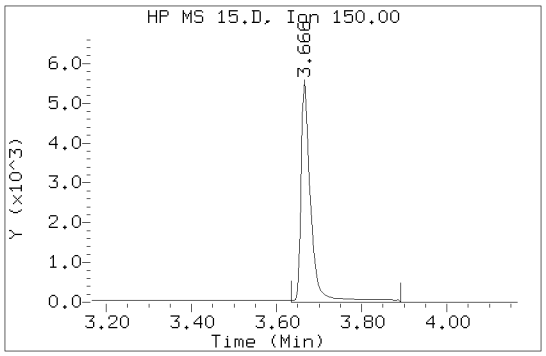
BEFORE

MASS
150
AREA
8897
HEIGHT
5590
28-Aug-2023
17:07
ALSHS
Server



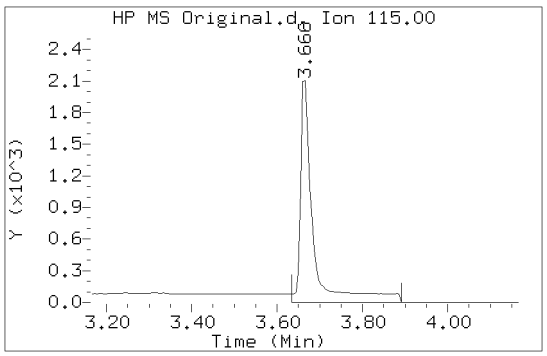
AFTER

MASS
150
AREA
8897
HEIGHT
5590
29-Aug-2023
15:27
ALSHS
Ser



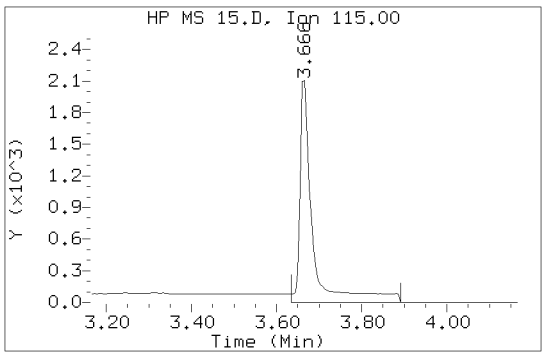
BEFORE

MASS
115
AREA
4347
HEIGHT
2103
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
115
AREA
4347
HEIGHT
2103
29-Aug-2023
15:27
ALSHS
Ser

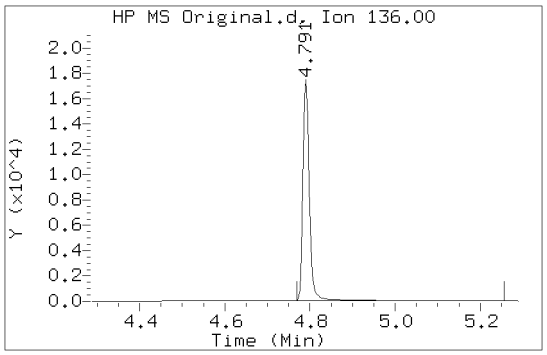


Naphthalene-d8 (1146-65-2)

Reason Code:

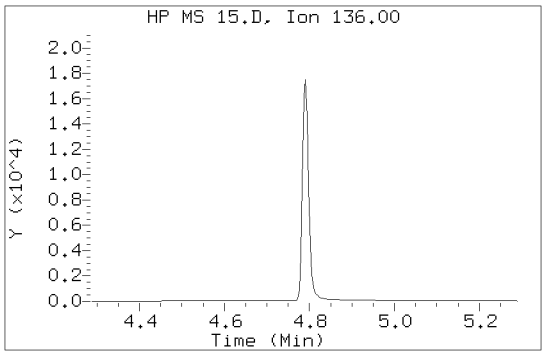
BEFORE

MASS
136
AREA
18367
HEIGHT
17438
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
136
AREA
22574
HEIGHT
17496
29-Aug-2023
15:27
ALSHS
Ser



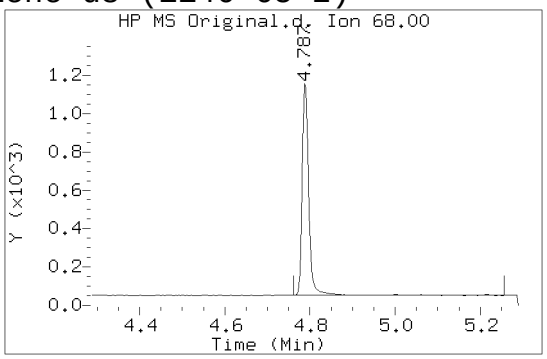
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

Naphthalene-d8 (1146-65-2)

Reason Code:

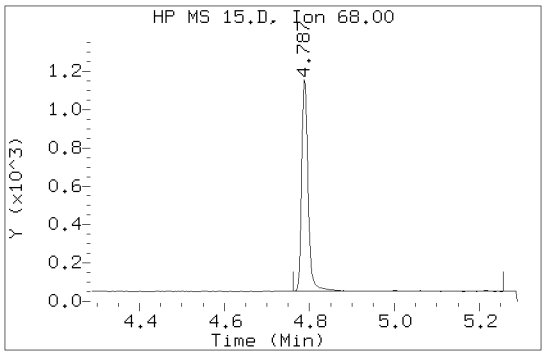
BEFORE

MASS
68
AREA
1195
HEIGHT
1104
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
68
AREA
1195
HEIGHT
1104
29-Aug-2023
15:27
ALSHS
Ser

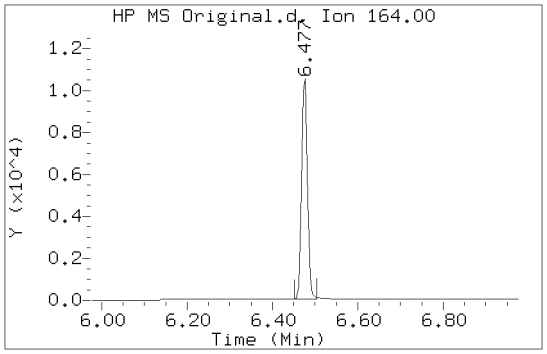


Acenaphthene-d10 (15067-26-2)

Reason Code:

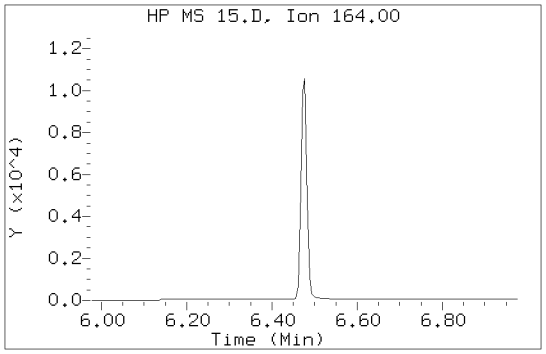
BEFORE

MASS
164
AREA
10018
HEIGHT
10514
28-Aug-2023
17:07
ALSHS
Server



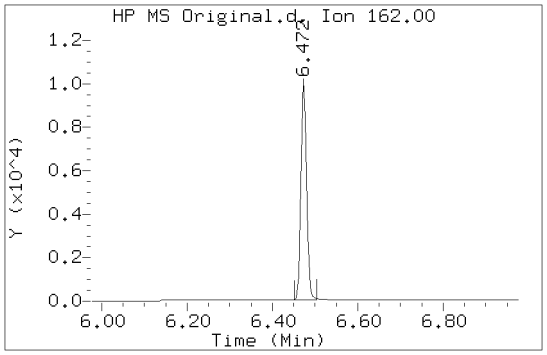
AFTER

MASS
164
AREA
13305
HEIGHT
10566
29-Aug-2023
15:27
ALSHS
Ser



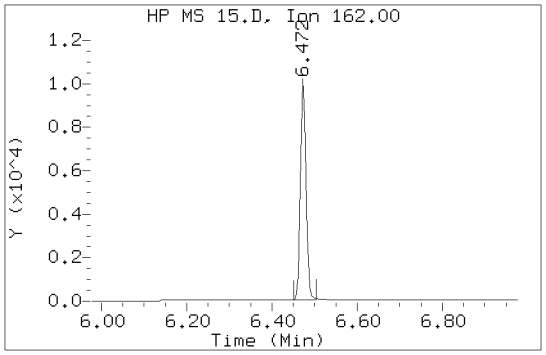
BEFORE

MASS
162
AREA
9341
HEIGHT
10171
28-Aug-2023
17:07
ALSHS
Server



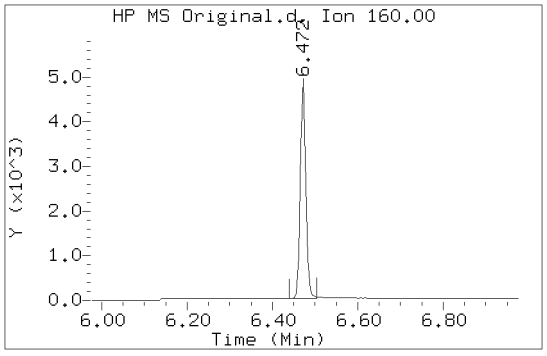
AFTER

MASS
162
AREA
9341
HEIGHT
10171
29-Aug-2023
15:27
ALSHS
Ser



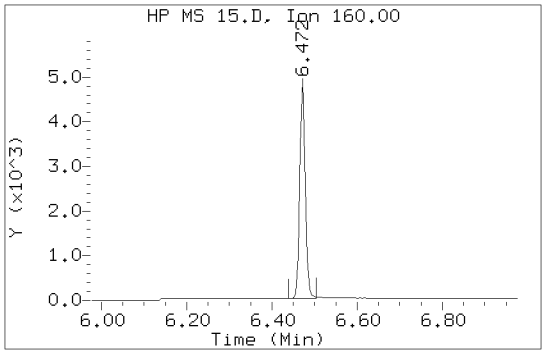
BEFORE

MASS
160
AREA
4413
HEIGHT
4918
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
160
AREA
4413
HEIGHT
4918
29-Aug-2023
15:27
ALSHS
Ser



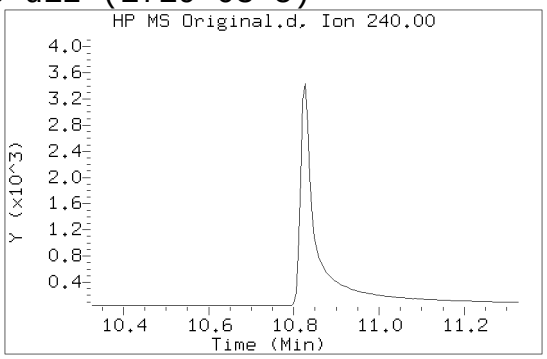
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

Chrysene-d12 (1719-03-5)

Reason Code:

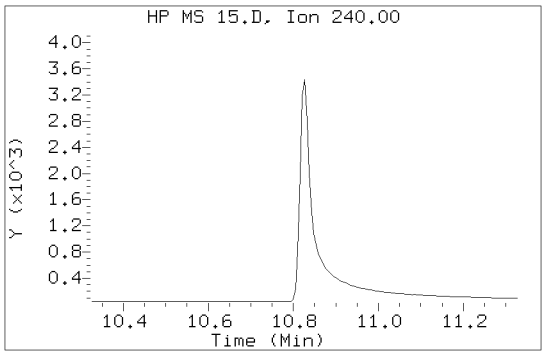
BEFORE

MASS
240
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



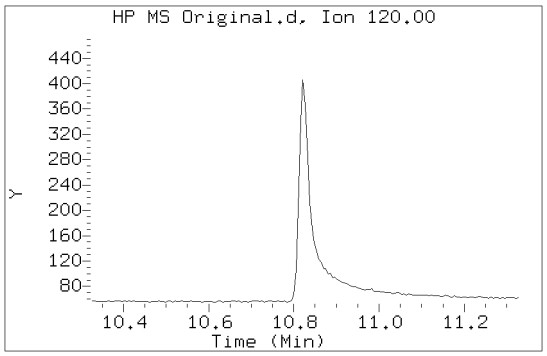
AFTER

MASS
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AREA
15703
HEIGHT
3434
29-Aug-2023
15:27
ALSHS
Ser



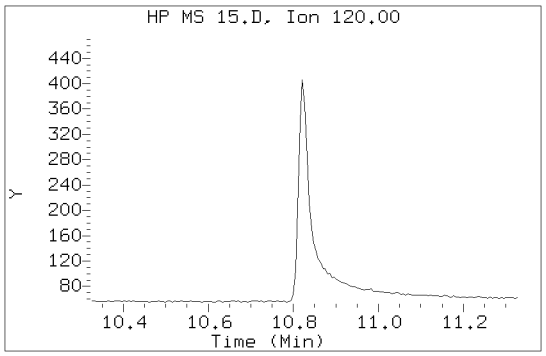
BEFORE

MASS
120
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



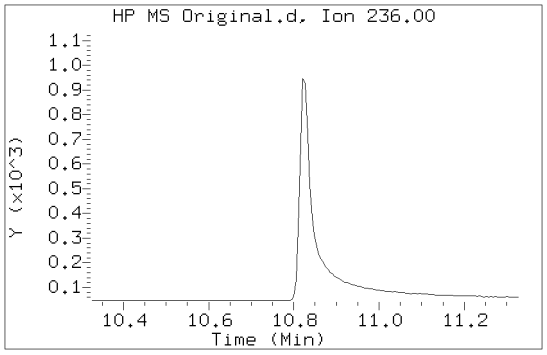
AFTER

MASS
120
AREA
926
HEIGHT
349
29-Aug-2023
15:27
ALSHS
Ser



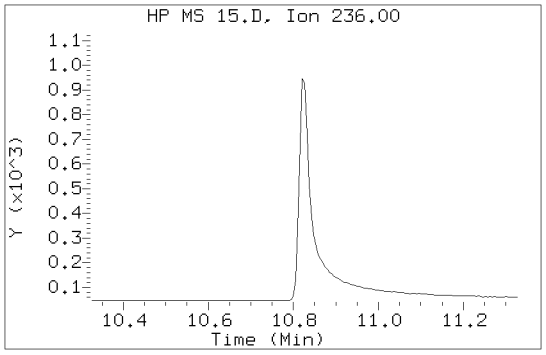
BEFORE

MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
236
AREA
2671
HEIGHT
897
29-Aug-2023
15:27
ALSHS
Ser

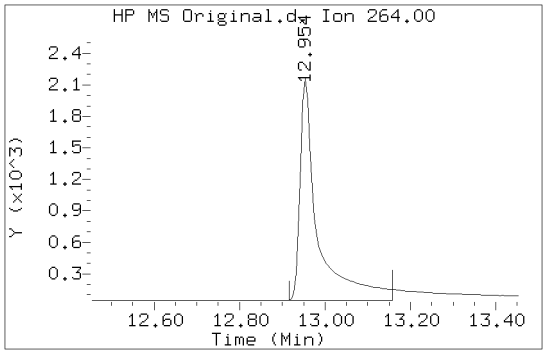


Perylene-d12 (1520-96-3)

Reason Code:

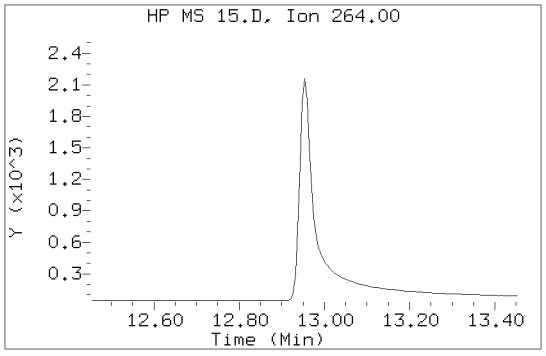
BEFORE

MASS
264
AREA
6037
HEIGHT
2108
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
264
AREA
7604
HEIGHT
2118
29-Aug-2023
15:27
ALSHS
Ser



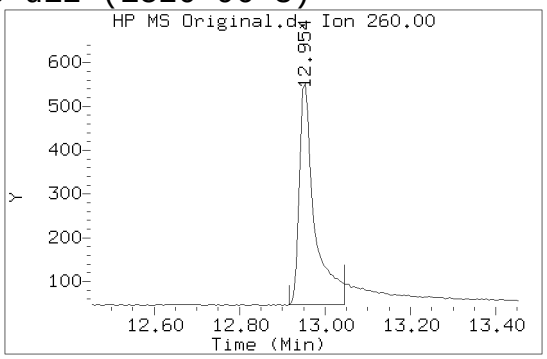
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

Perylene-d12 (1520-96-3)

Reason Code:

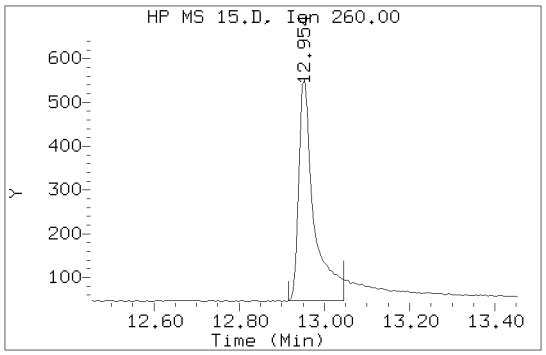
BEFORE

MASS
260
AREA
1247
HEIGHT
504
28-Aug-2023
17:07
ALSHS
Server



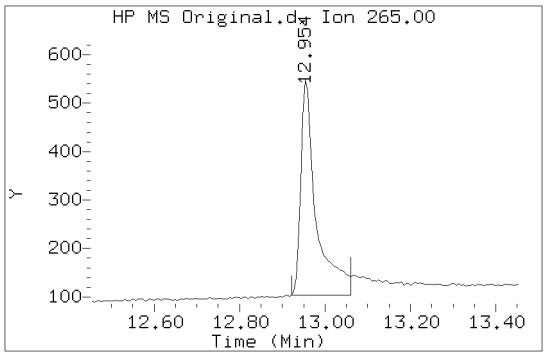
AFTER

MASS
260
AREA
1247
HEIGHT
504
29-Aug-2023
15:27
ALSHS
Ser



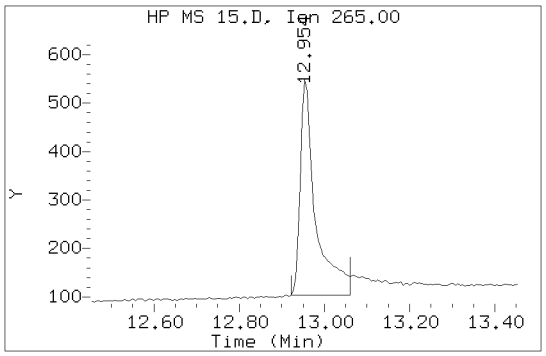
BEFORE

MASS
265
AREA
1121
HEIGHT
445
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
265
AREA
1121
HEIGHT
445
29-Aug-2023
15:27
ALSHS
Ser

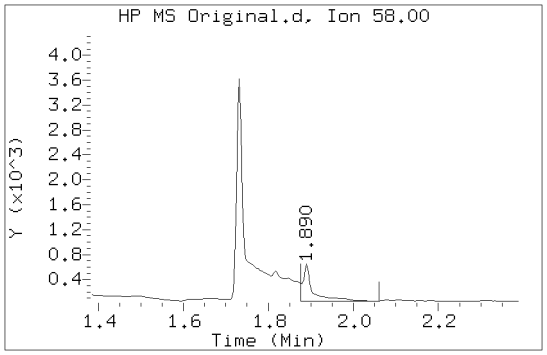


1,4-Dioxane ()

Reason Code:

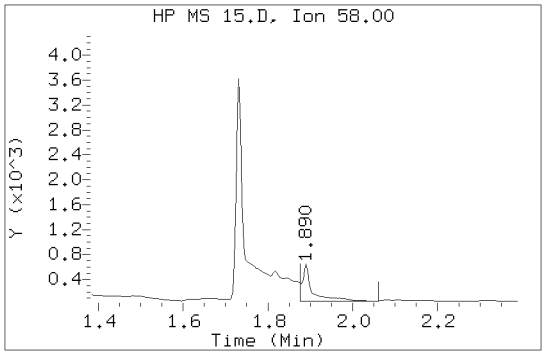
BEFORE

MASS
58
AREA
957
HEIGHT
596
28-Aug-2023
17:07
ALSHS
Server



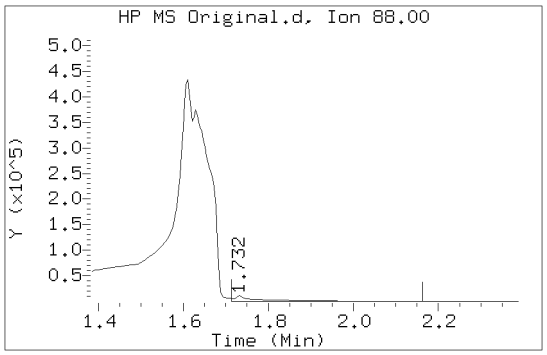
AFTER

MASS
58
AREA
1013
HEIGHT
601
29-Aug-2023
15:27
ALSHS
Ser



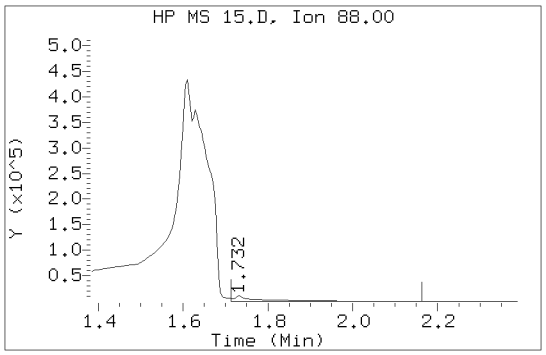
BEFORE

MASS
88
AREA
40773
HEIGHT
10813
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
88
AREA
40773
HEIGHT
10813
29-Aug-2023
15:27
ALSHS
Ser



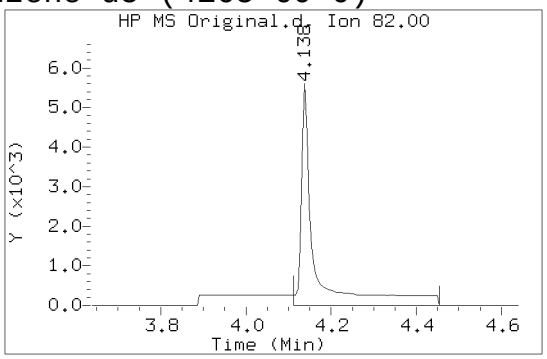
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

Nitrobenzene-d5 (4165-60-0)

Reason Code:

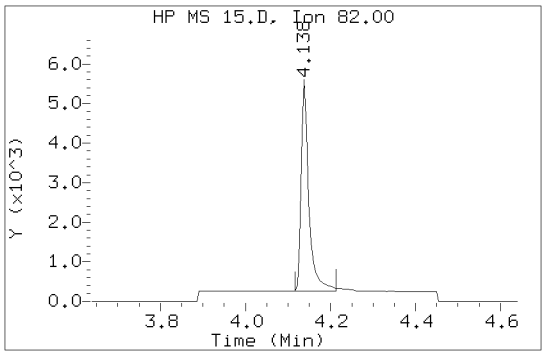
BEFORE

MASS
82
AREA
12128
HEIGHT
5604
28-Aug-2023
17:07
ALSHS
Server



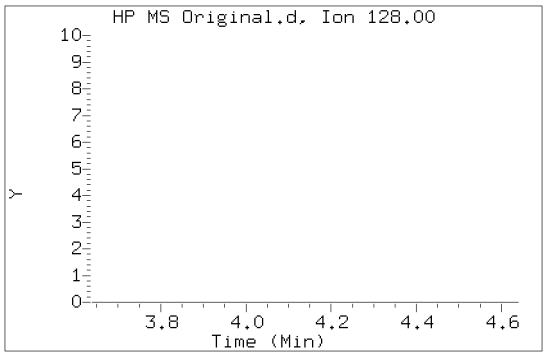
AFTER

MASS
82
AREA
6753
HEIGHT
5343
29-Aug-2023
15:27
ALSHS
Ser



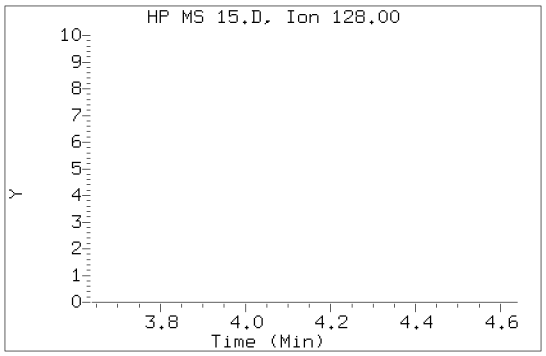
BEFORE

MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



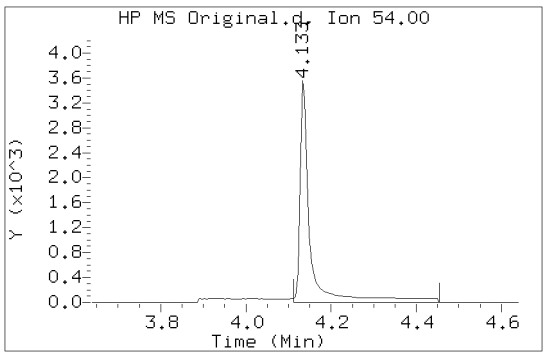
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser



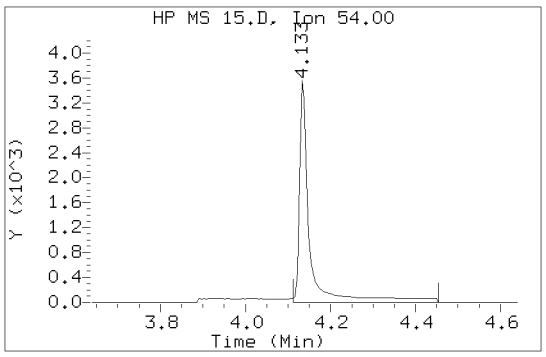
BEFORE

MASS
54
AREA
5940
HEIGHT
3556
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
54
AREA
5940
HEIGHT
3556
29-Aug-2023
15:27
ALSHS
Ser

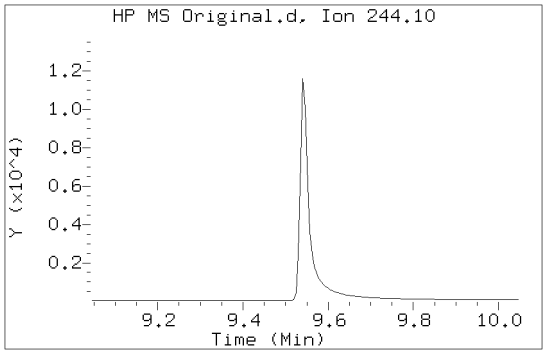


4-Terphenyl-d14 (1718-51-0)

Reason Code:

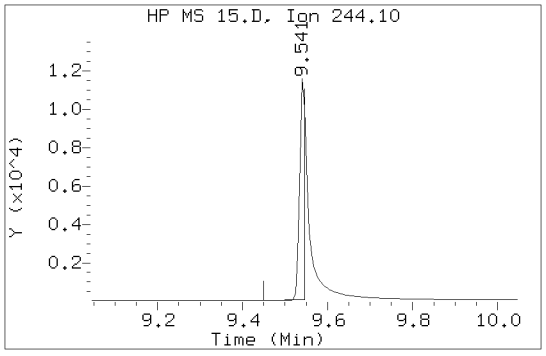
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
244.1
AREA
10161
HEIGHT
11541
29-Aug-2023
15:27
ALSHS
Ser



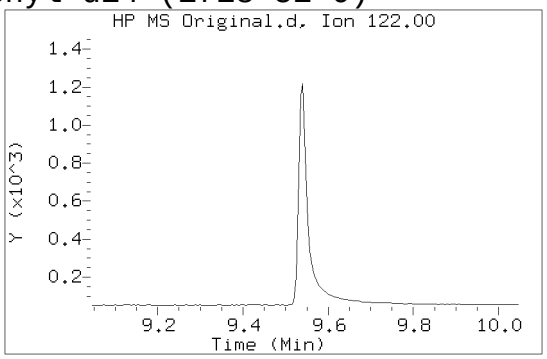
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\15.D
Inj Date : 28-AUG-2023 15:41
InstruID : SV6.i
LabSampID : LCS1-199190

4-Terphenyl-d14 (1718-51-0)

Reason Code:

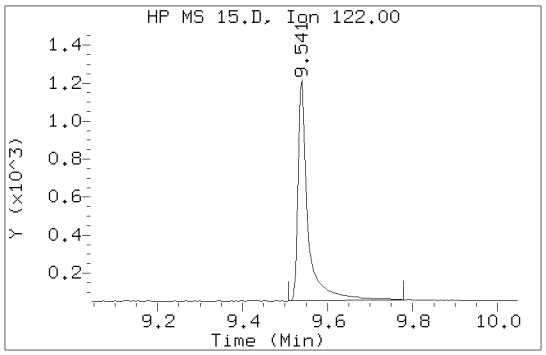
BEFORE

MASS
122
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



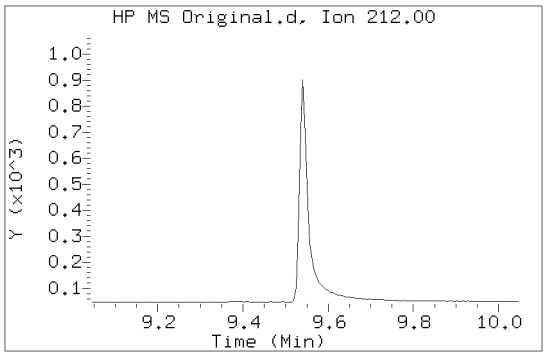
AFTER

MASS
122
AREA
1883
HEIGHT
1163
29-Aug-2023
15:27
ALSHS
Ser



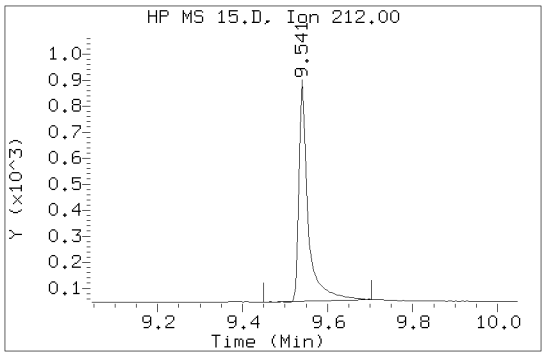
BEFORE

MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
212
AREA
1247
HEIGHT
849
29-Aug-2023
15:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\16.D Page 1
Report Date: 29-Aug-2023 15:28

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\16.D
Lab Smp Id: LCSD1-199190
Inj Date : 28-AUG-2023 15:59
Operator : LG Inst ID: SV6.i
Smp Info : LCSD1-199190;;3;;LCSD
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 15:28 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 16 QC Sample: LCSD
Dil Factor: 1.00000
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	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	3.665	3.671	(1.000)	3857	0.10000	(aM)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	17950	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.138	4.137	(0.864)	5389	0.09881	0.09881(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	12169	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	12965	0.10419	0.1042
* 126 Phenanthrene-d10	188	7.937	7.937	(1.000)	16977	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	13423	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.540	9.545	(0.881)	7986	0.08064	0.08064(M)
* 198 Perylene-d12	264	12.953	12.958	(1.000)	6117	0.10000	(M)
1 1,4-Dioxane	58	1.886	1.912	(0.515)	860	0.06572	0.06572(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.

01251610

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\16.D

Date : 28-AUG-2023 15:59

Client ID:

Instrument: SV6.i

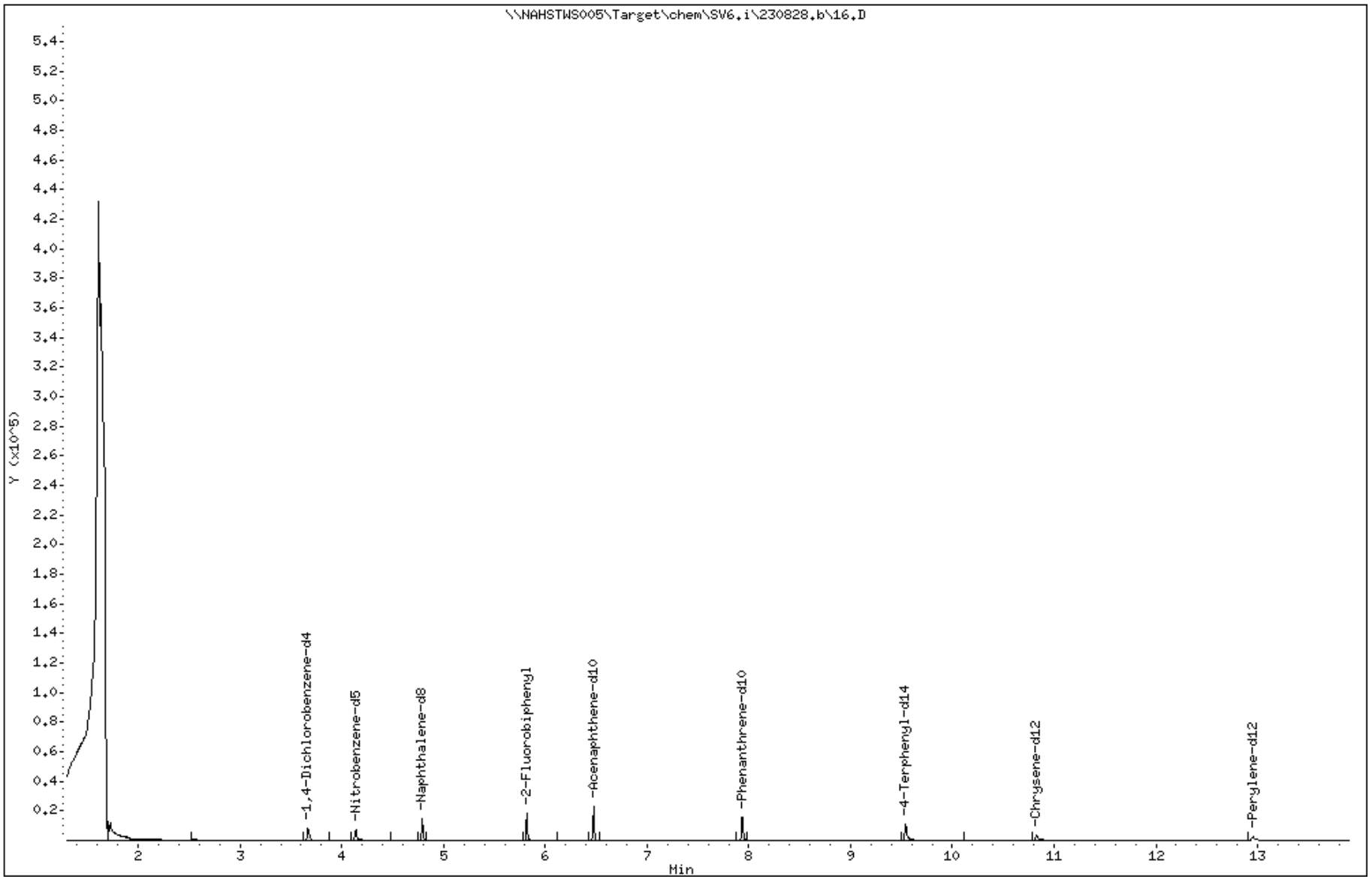
Sample Info: LCSD1-199190;;3;;LCSD

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



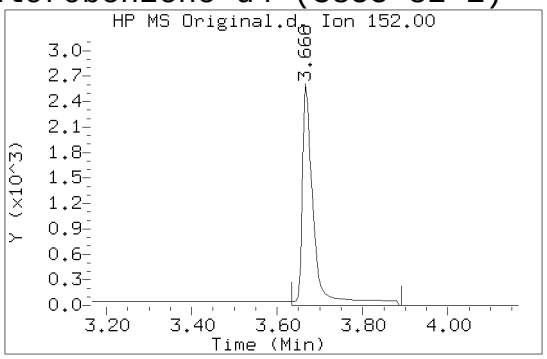
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\16.D
Inj Date : 28-AUG-2023 15:59
InstruID : SV6.i
LabSampID : LCSD1-199190

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

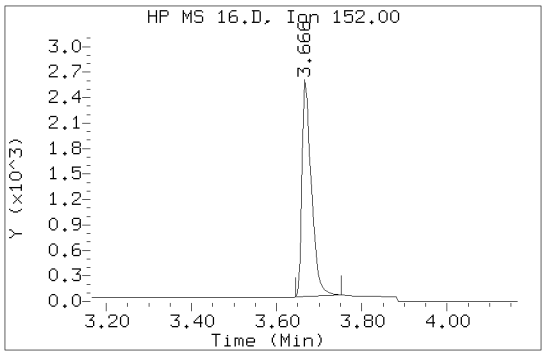
BEFORE

MASS
152
AREA
4785
HEIGHT
2611
28-Aug-2023
17:07
ALSHS
Server



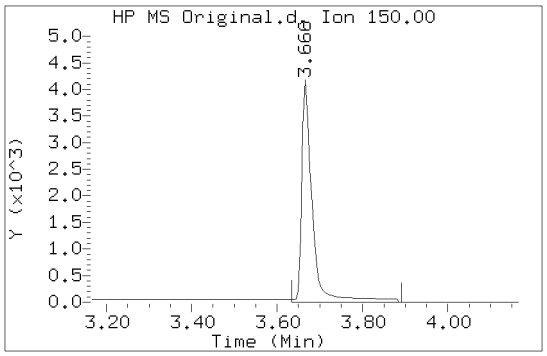
AFTER

MASS
152
AREA
3857
HEIGHT
2554
29-Aug-2023
15:27
ALSHS
Ser



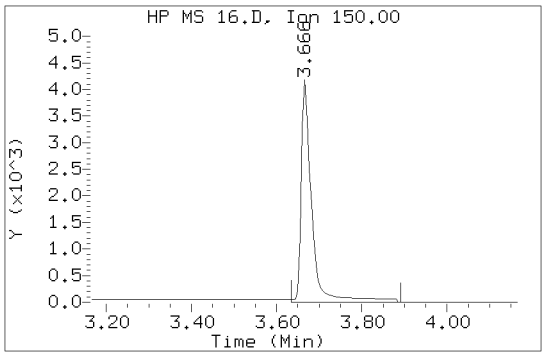
BEFORE

MASS
150
AREA
7168
HEIGHT
4179
28-Aug-2023
17:07
ALSHS
Server



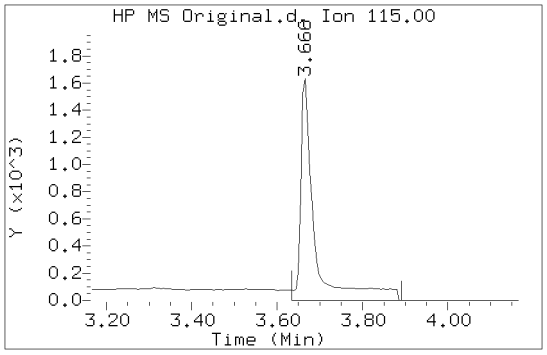
AFTER

MASS
150
AREA
7168
HEIGHT
4179
29-Aug-2023
15:27
ALSHS
Ser



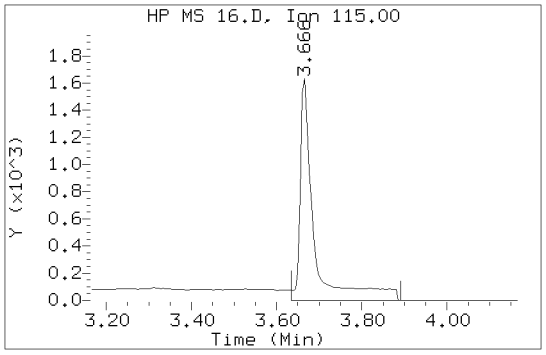
BEFORE

MASS
115
AREA
3666
HEIGHT
1632
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
115
AREA
3666
HEIGHT
1632
29-Aug-2023
15:27
ALSHS
Ser

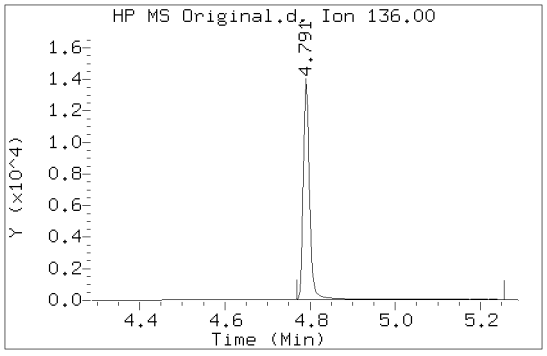


Naphthalene-d8 (1146-65-2)

Reason Code:

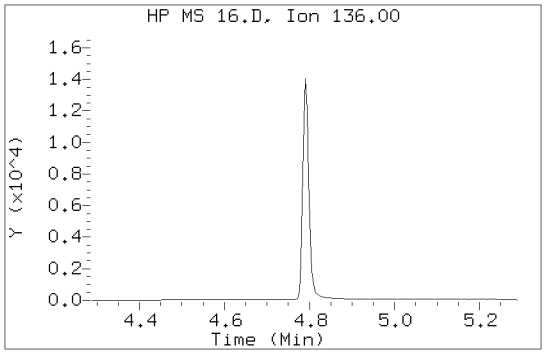
BEFORE

MASS
136
AREA
14307
HEIGHT
13985
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
136
AREA
17950
HEIGHT
14043
29-Aug-2023
15:27
ALSHS
Ser



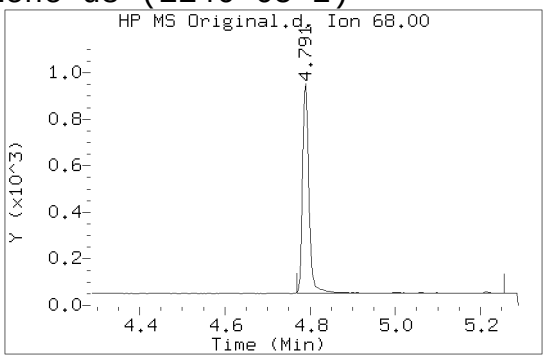
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Inj Date : 28-AUG-2023 15:59
InstruID : SV6.i
LabSampID : LCSD1-199190

Naphthalene-d8 (1146-65-2)

Reason Code:

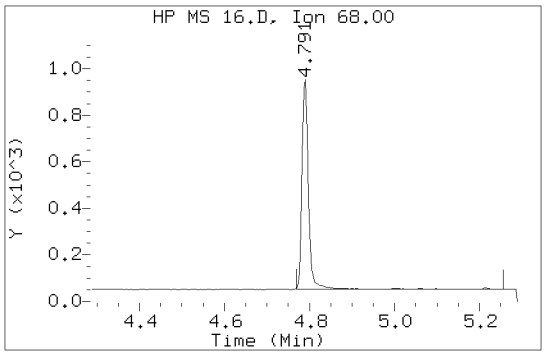
BEFORE

MASS
68
AREA
953
HEIGHT
901
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
68
AREA
953
HEIGHT
901
29-Aug-2023
15:27
ALSHS
Ser

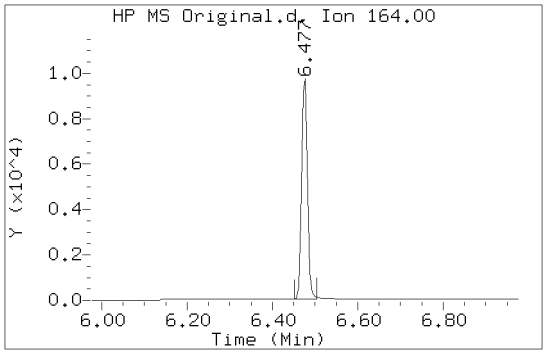


Acenaphthene-d10 (15067-26-2)

Reason Code:

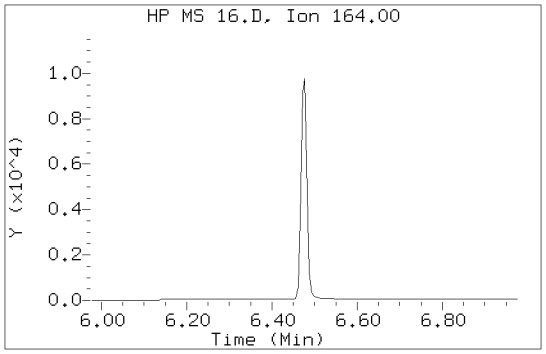
BEFORE

MASS
164
AREA
9416
HEIGHT
9711
28-Aug-2023
17:07
ALSHS
Server



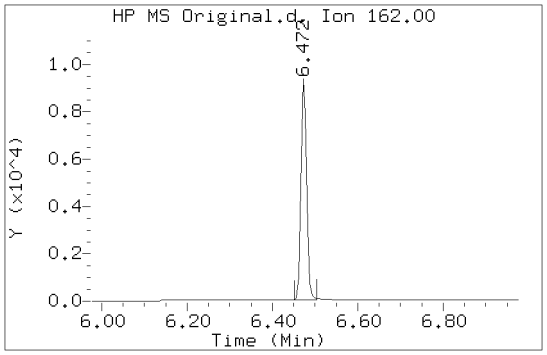
AFTER

MASS
164
AREA
12169
HEIGHT
9764
29-Aug-2023
15:27
ALSHS
Ser



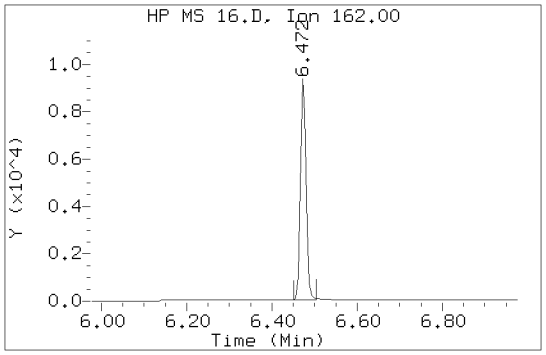
BEFORE

MASS
162
AREA
8732
HEIGHT
9344
28-Aug-2023
17:07
ALSHS
Server



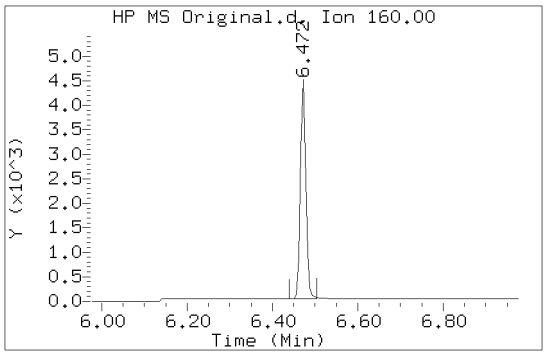
AFTER

MASS
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AREA
8732
HEIGHT
9344
29-Aug-2023
15:27
ALSHS
Ser



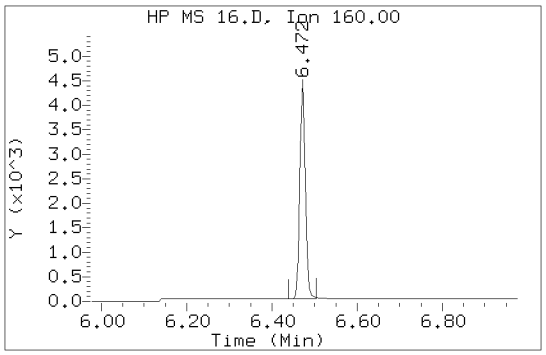
BEFORE

MASS
160
AREA
4084
HEIGHT
4477
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
160
AREA
4084
HEIGHT
4477
29-Aug-2023
15:27
ALSHS
Ser



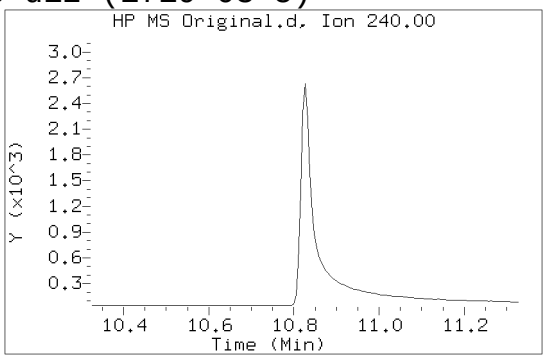
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Inj Date : 28-AUG-2023 15:59
InstruID : SV6.i
LabSampID : LCSD1-199190

Chrysene-d12 (1719-03-5)

Reason Code:

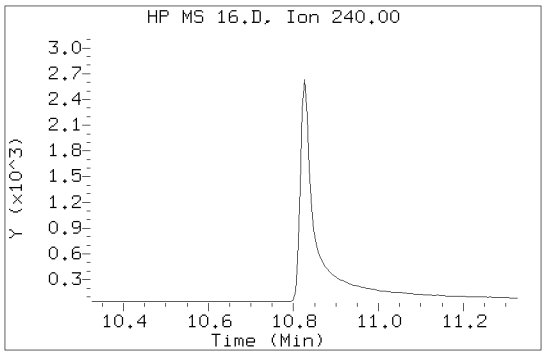
BEFORE

MASS
240
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



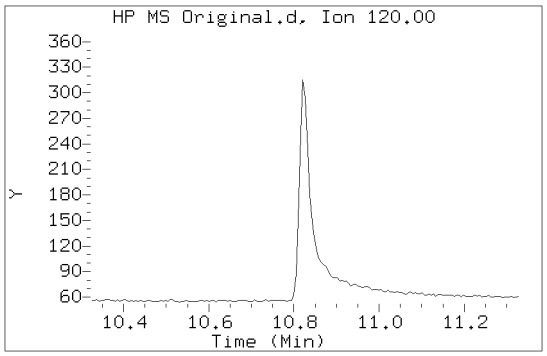
AFTER

MASS
240
AREA
13423
HEIGHT
2630
29-Aug-2023
15:27
ALSHS
Ser



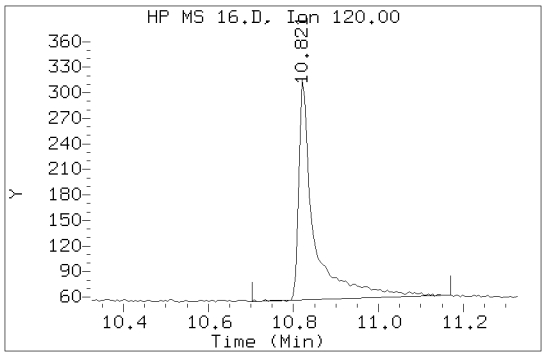
BEFORE

MASS
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AREA
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HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



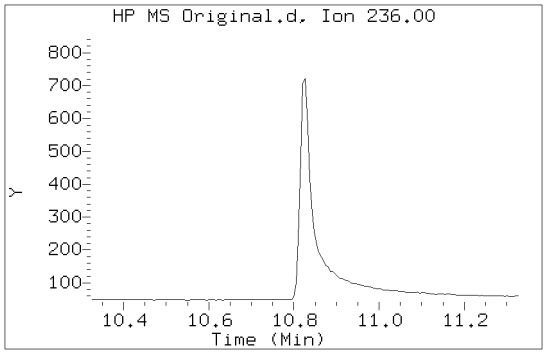
AFTER

MASS
120
AREA
652
HEIGHT
258
29-Aug-2023
15:27
ALSHS
Ser



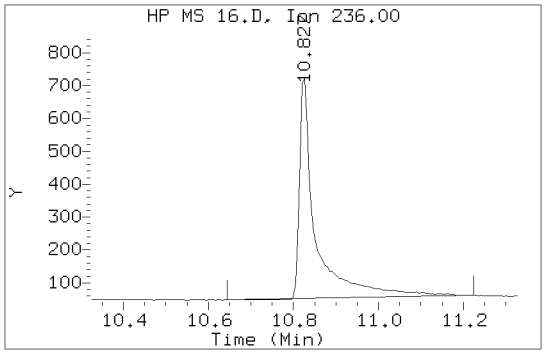
BEFORE

MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
236
AREA
1763
HEIGHT
668
29-Aug-2023
15:27
ALSHS
Ser

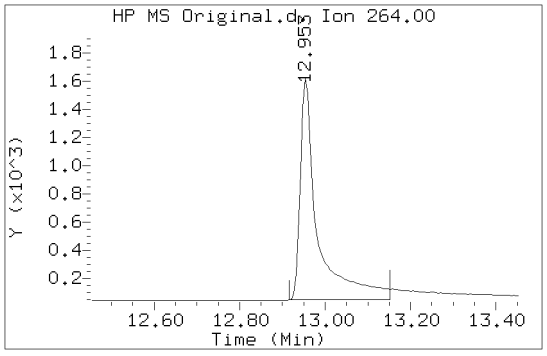


Perylene-d12 (1520-96-3)

Reason Code:

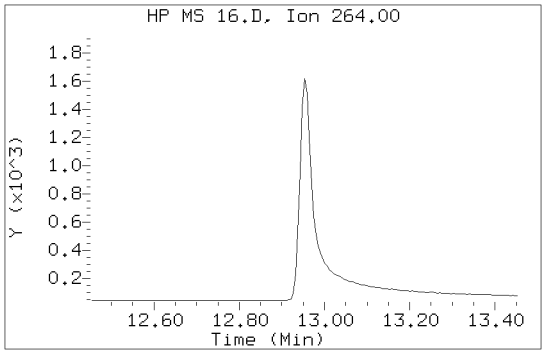
BEFORE

MASS
264
AREA
4442
HEIGHT
1566
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
264
AREA
6117
HEIGHT
1570
29-Aug-2023
15:27
ALSHS
Ser



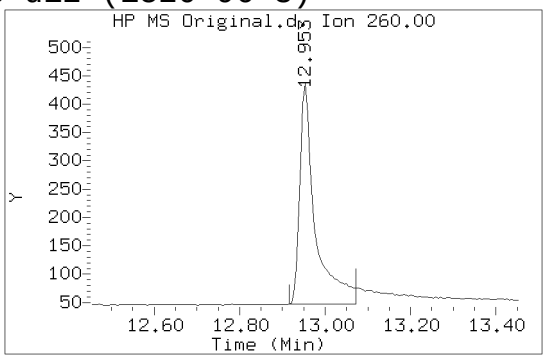
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\16.D
Inj Date : 28-AUG-2023 15:59
InstruID : SV6.i
LabSampID : LCSD1-199190

Perylene-d12 (1520-96-3)

Reason Code:

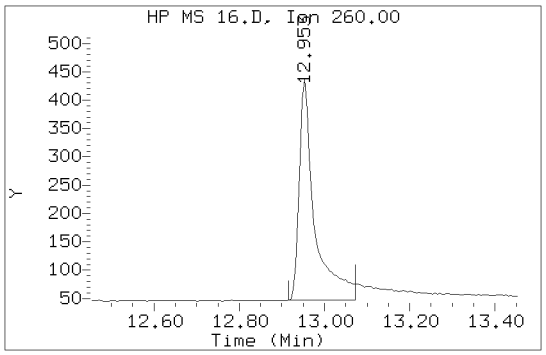
BEFORE

MASS
260
AREA
977
HEIGHT
389
28-Aug-2023
17:07
ALSHS
Server



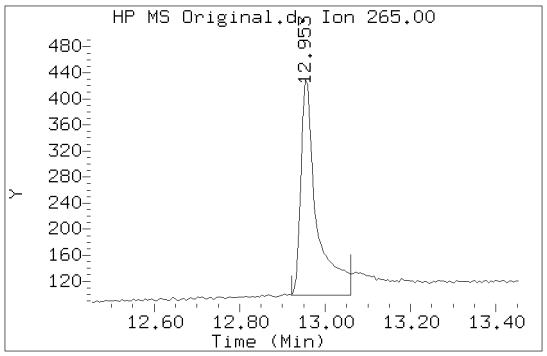
AFTER

MASS
260
AREA
977
HEIGHT
389
29-Aug-2023
15:27
ALSHS
Ser



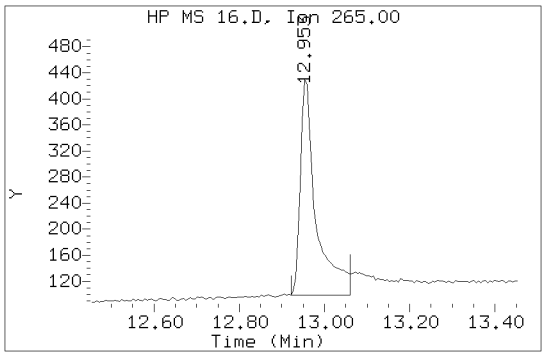
BEFORE

MASS
265
AREA
849
HEIGHT
330
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
265
AREA
849
HEIGHT
330
29-Aug-2023
15:27
ALSHS
Ser

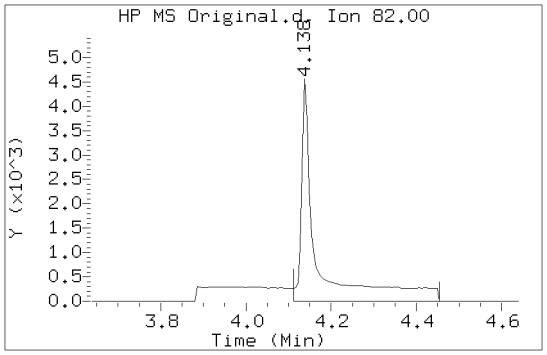


Nitrobenzene-d5 (4165-60-0)

Reason Code:

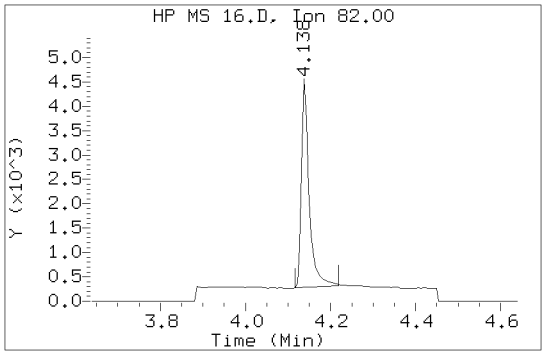
BEFORE

MASS
82
AREA
11418
HEIGHT
4562
28-Aug-2023
17:07
ALSHS
Server



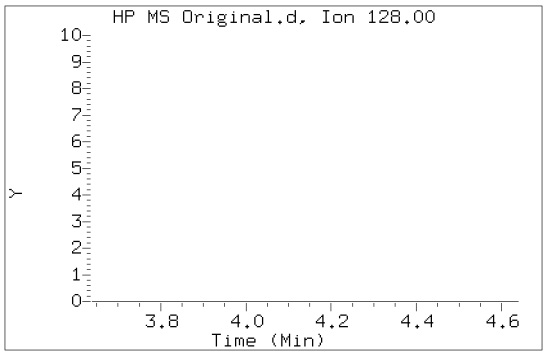
AFTER

MASS
82
AREA
5389
HEIGHT
4273
29-Aug-2023
15:27
ALSHS
Ser



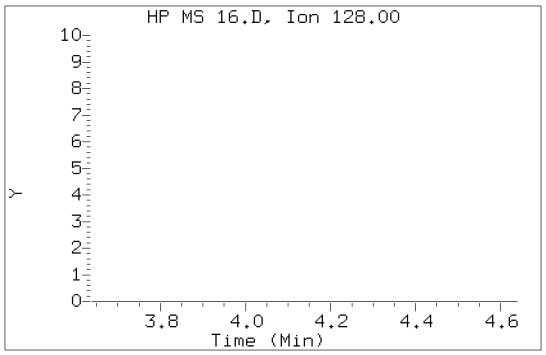
BEFORE

MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser

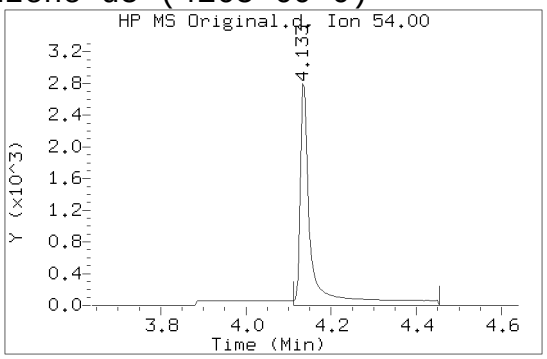


Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\16.D
Inj Date : 28-AUG-2023 15:59
InstruID : SV6.i
LabSampID : LCSD1-199190

Nitrobenzene-d5 (4165-60-0)

BEFORE

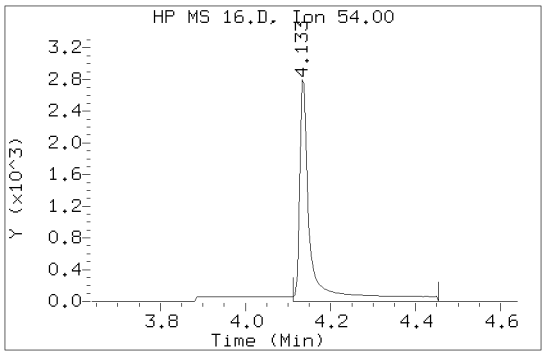
MASS
54
AREA
5158
HEIGHT
2798
28-Aug-2023
17:07
ALSHS
Server



Reason Code:

AFTER

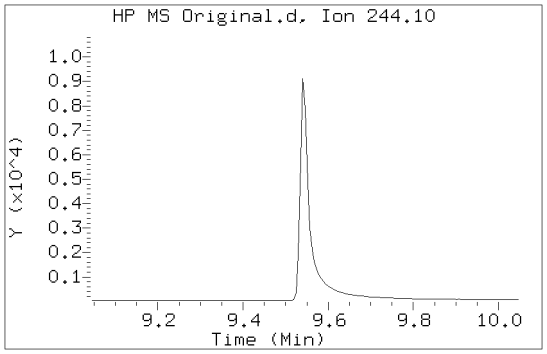
MASS
54
AREA
5158
HEIGHT
2798
29-Aug-2023
15:27
ALSHS
Ser



4-Terphenyl-d14 (1718-51-0)

BEFORE

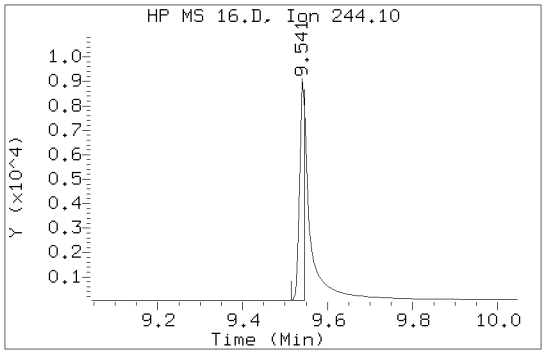
MASS
244.1
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



Reason Code:

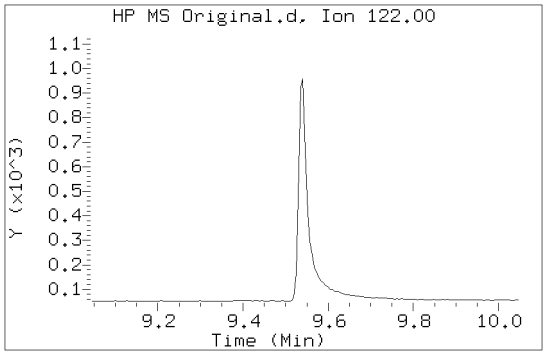
AFTER

MASS
244.1
AREA
7986
HEIGHT
9060
29-Aug-2023
15:27
ALSHS
Ser



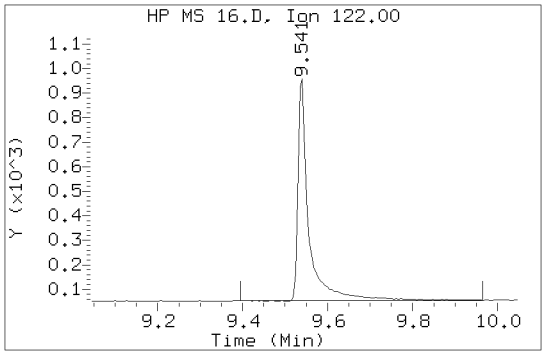
BEFORE

MASS
122
AREA
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HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



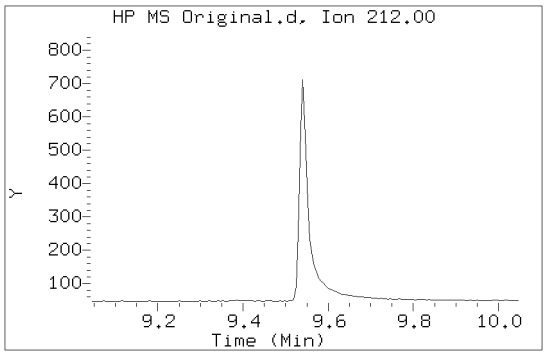
AFTER

MASS
122
AREA
1612
HEIGHT
903
29-Aug-2023
15:27
ALSHS
Ser



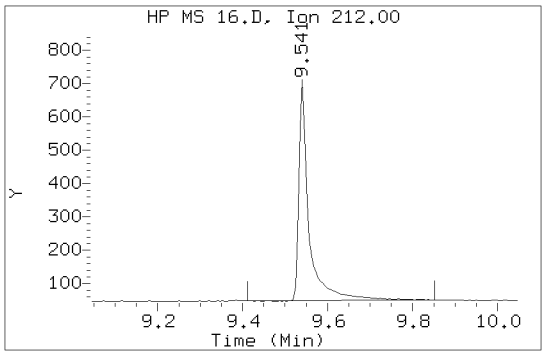
BEFORE

MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
17:07
ALSHS
Server



AFTER

MASS
212
AREA
1066
HEIGHT
662
29-Aug-2023
15:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\22.D Page 1
Report Date: 29-Aug-2023 15:28

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\22.D
Lab Smp Id: HS23081076-01
Inj Date : 28-AUG-2023 17:47
Operator : LG Inst ID: SV6.i
Smp Info : HS23081076-01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 15:28 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 22
Dil Factor: 1.00000
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	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	3.665	3.671	(1.000)	4332	0.10000	(a)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	13520	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.137	4.137	(0.864)	3000	0.07303	0.07303(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	7899	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	7653	0.09475	0.09474
* 126 Phenanthrene-d10	188	7.937	7.937	(1.000)	12868	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	12018	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.540	9.545	(0.881)	7801	0.08798	0.08798(M)
* 198 Perylene-d12	264	12.953	12.958	(1.000)	5527	0.10000	(M)
1 1,4-Dioxane	58	1.886	1.912	(0.515)	18556	1.26245	1.262(AQ)

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.

01251618

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\22.D

Date : 28-AUG-2023 17:47

Client ID:

Instrument: SV6.i

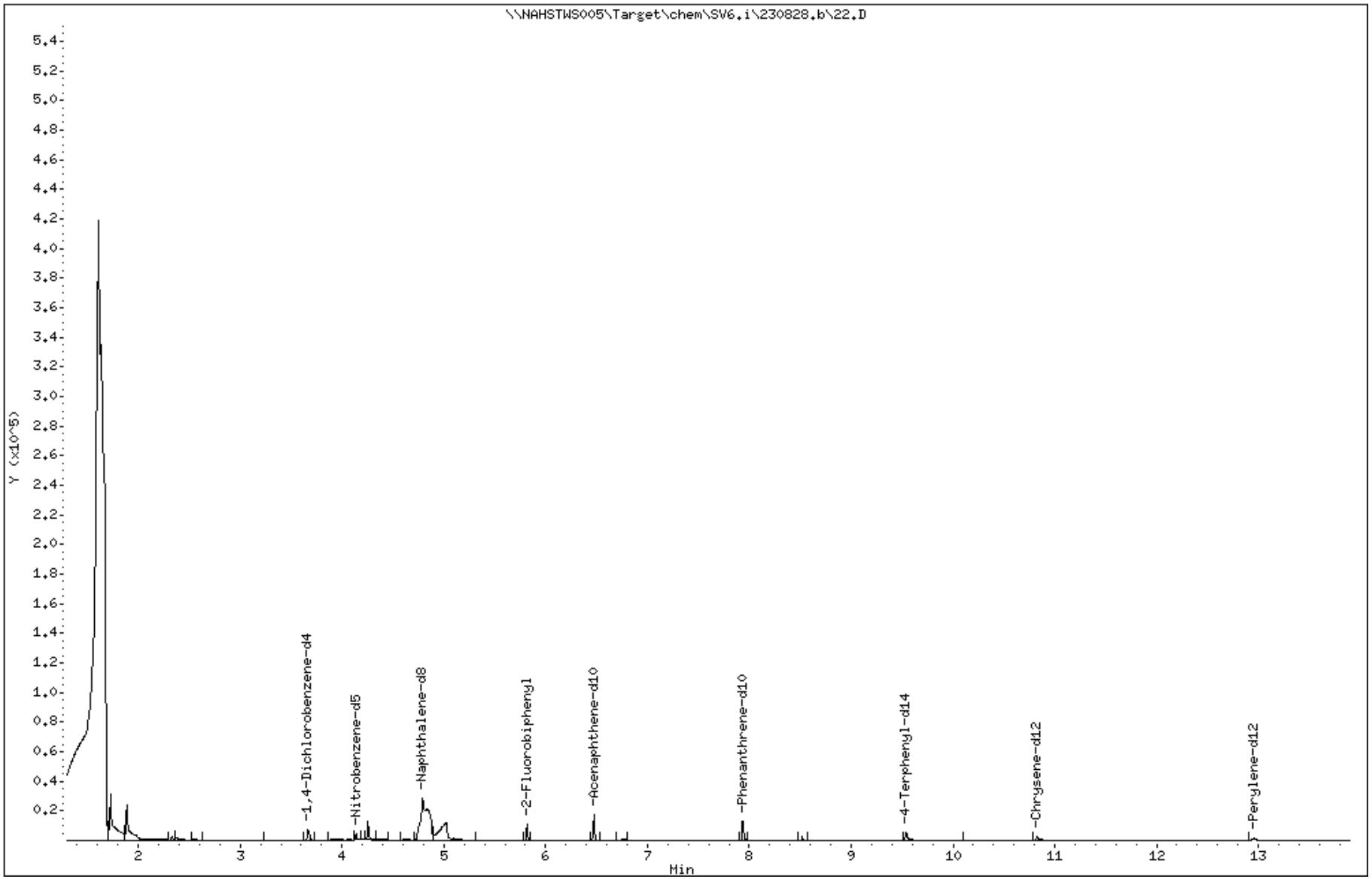
Sample Info: HS23081076-01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\22.D

Date : 28-AUG-2023 17:47

Client ID:

Instrument: SV6.i

Sample Info: HS23081076-01

Purge Volume: 1000.0

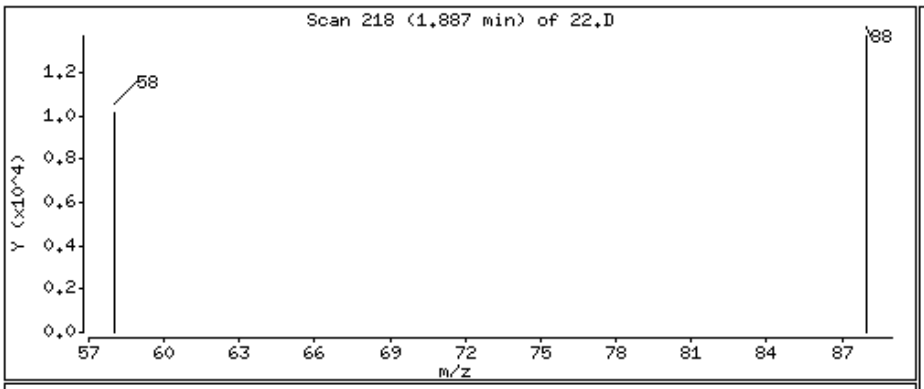
Operator: LG

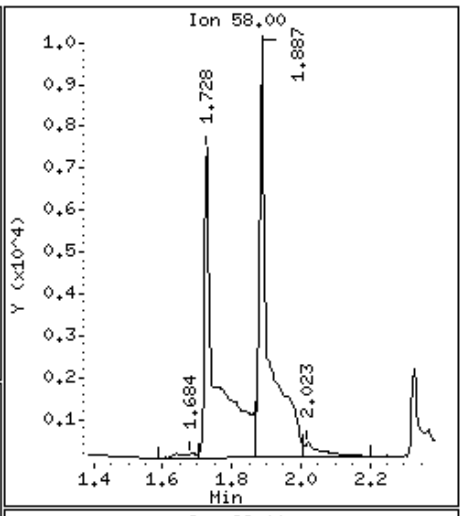
Column phase: RTX-5SIL MS

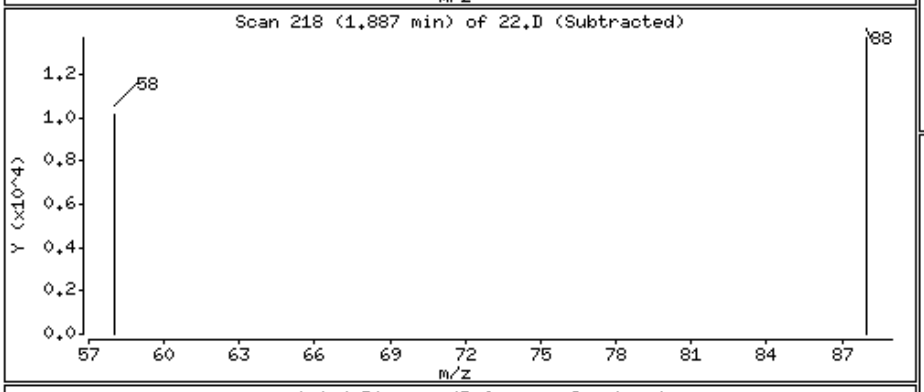
Column diameter: 0.28

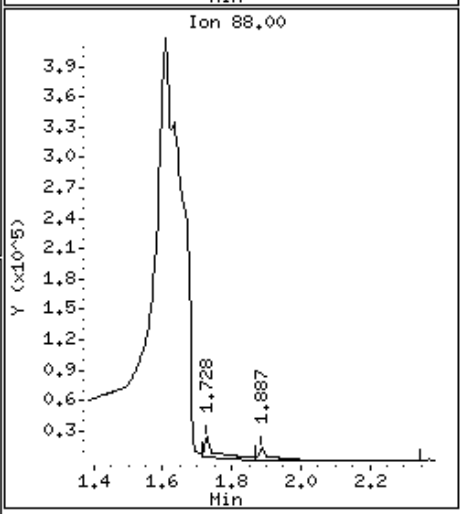
1 1,4-Dioxane

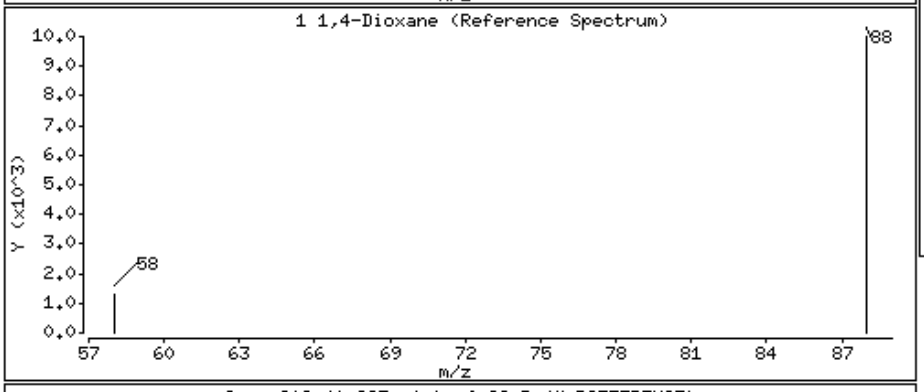
Concentration: 1.262 ug/L

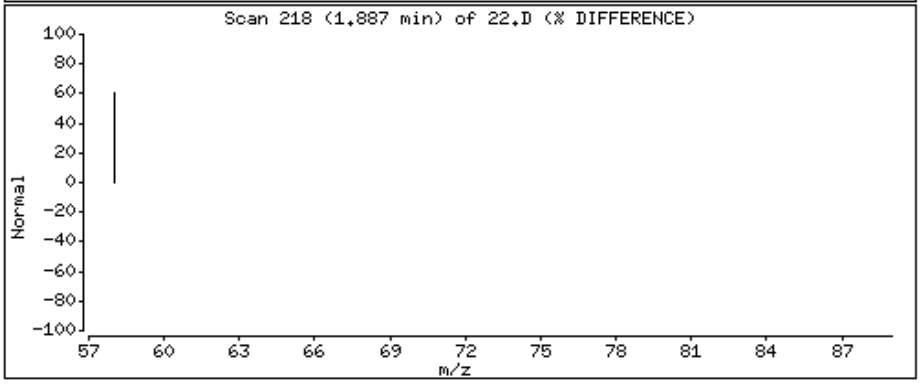






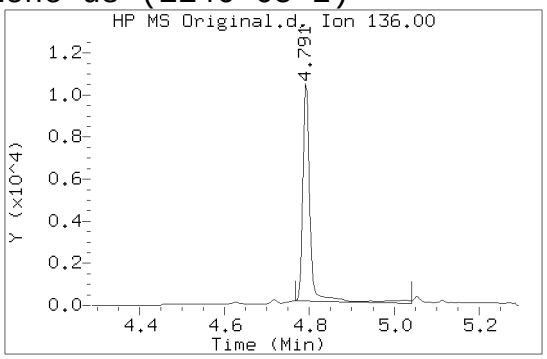




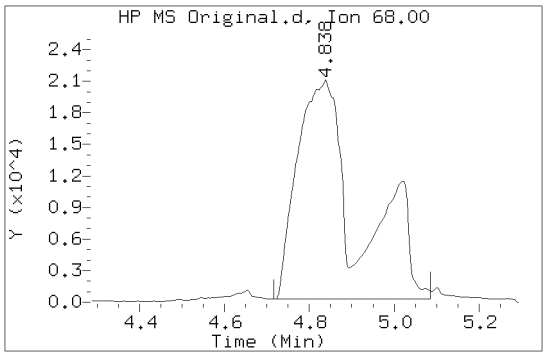


Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\22.D
Inj Date : 28-AUG-2023 17:47
InstruID : SV6.i
LabSampID : HS23081076-01

Naphthalene-d8 (1146-65-2)

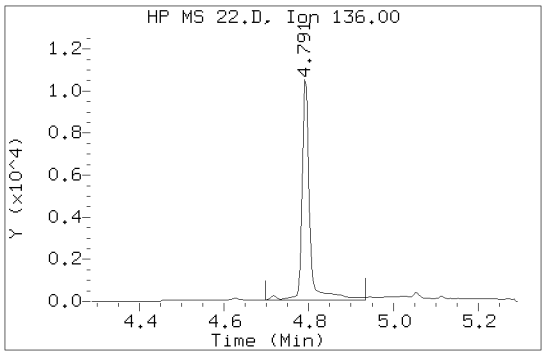


BEFORE
MASS
136
AREA
12509
HEIGHT
10342
28-Aug-2023
19:42
ALSHS
Server

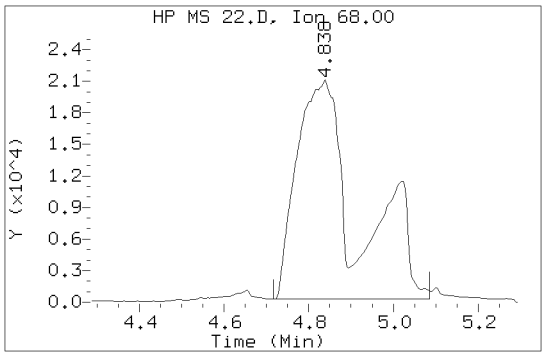


BEFORE
MASS
68
AREA
204208
HEIGHT
20850
28-Aug-2023
19:42
ALSHS
Server

Reason Code:

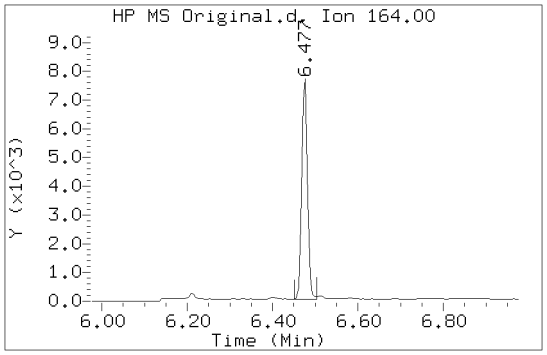


AFTER
MASS
136
AREA
13520
HEIGHT
10481
29-Aug-2023
15:27
ALSHS
Ser

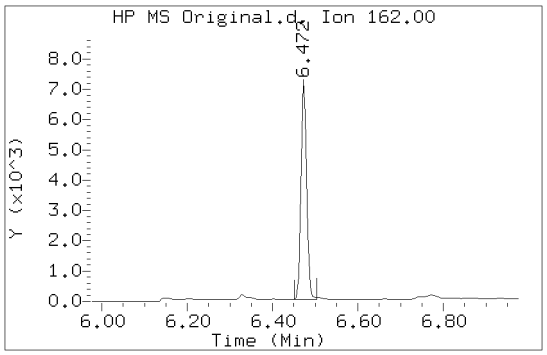


AFTER
MASS
68
AREA
204208
HEIGHT
20850
29-Aug-2023
15:27
ALSHS
Ser

Acenaphthene-d10 (15067-26-2)

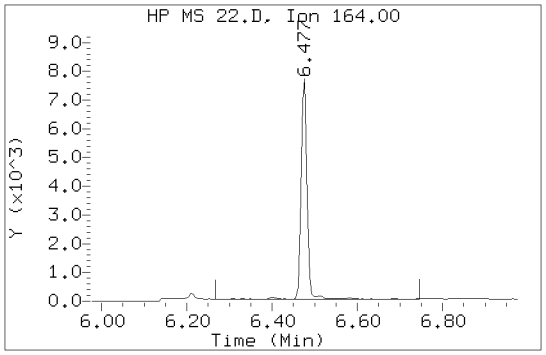


BEFORE
MASS
164
AREA
7124
HEIGHT
7659
28-Aug-2023
19:42
ALSHS
Server

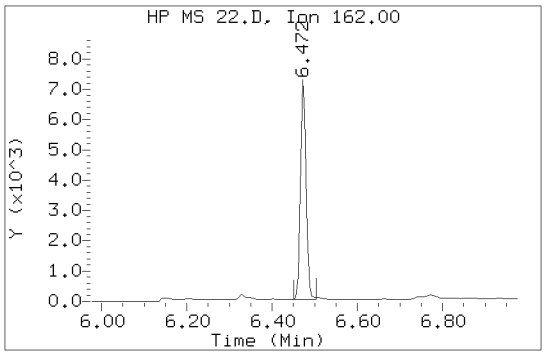


BEFORE
MASS
162
AREA
6626
HEIGHT
7252
28-Aug-2023
19:42
ALSHS
Server

Reason Code:



AFTER
MASS
164
AREA
7899
HEIGHT
7678
29-Aug-2023
15:27
ALSHS
Ser



AFTER
MASS
162
AREA
6626
HEIGHT
7252
29-Aug-2023
15:27
ALSHS
Ser

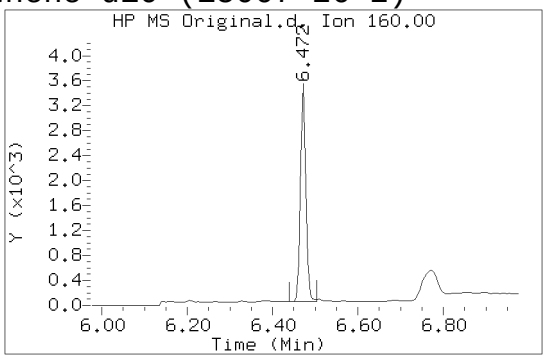
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Inj Date : 28-AUG-2023 17:47
InstruID : SV6.i
LabSampID : HS23081076-01

Acenaphthene-d10 (15067-26-2)

Reason Code:

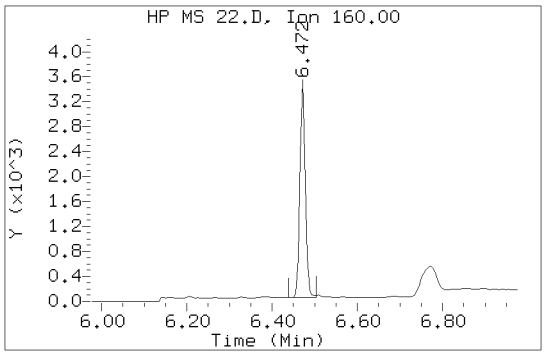
BEFORE

MASS
160
AREA
3091
HEIGHT
3493
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
160
AREA
3091
HEIGHT
3493
29-Aug-2023
15:27
ALSHS
Ser

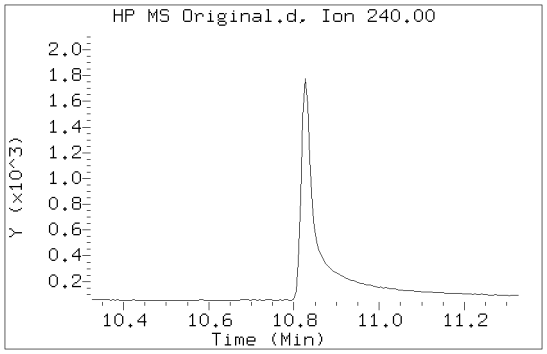


Chrysene-d12 (1719-03-5)

Reason Code:

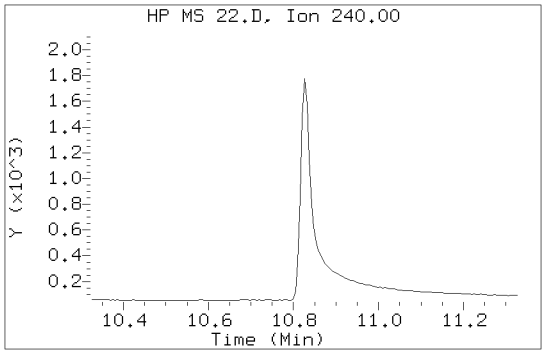
BEFORE

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AREA
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HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



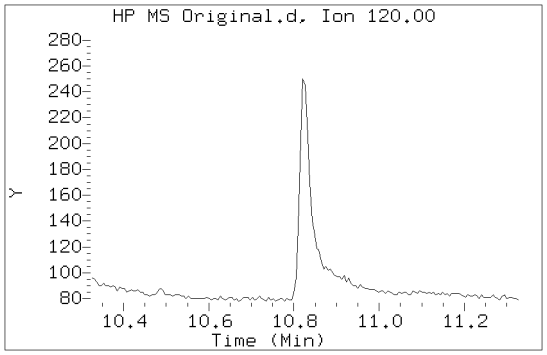
AFTER

MASS
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AREA
12018
HEIGHT
1775
29-Aug-2023
15:27
ALSHS
Ser



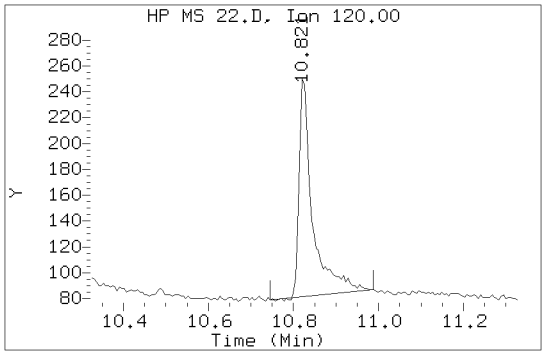
BEFORE

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AREA
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HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



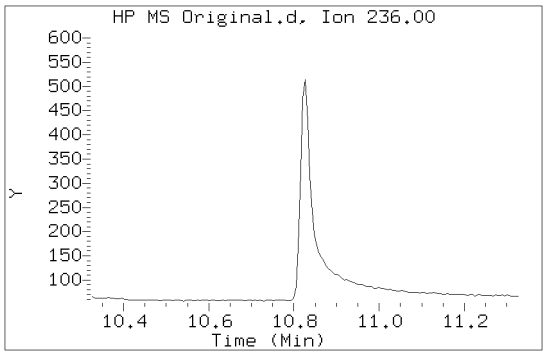
AFTER

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AREA
369
HEIGHT
168
29-Aug-2023
15:27
ALSHS
Ser



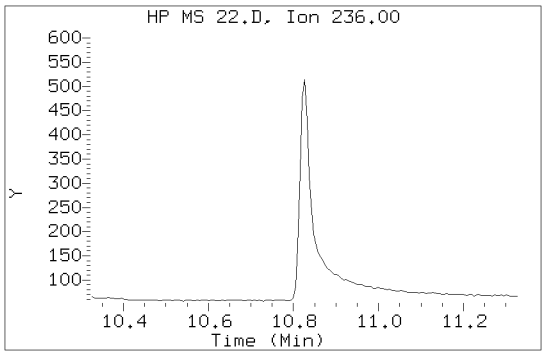
BEFORE

MASS
236
AREA
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HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser



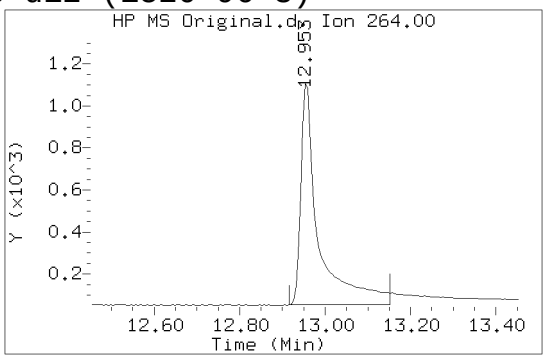
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\22.D
Inj Date : 28-AUG-2023 17:47
InstruID : SV6.i
LabSampID : HS23081076-01

Perylene-d12 (1520-96-3)

Reason Code:

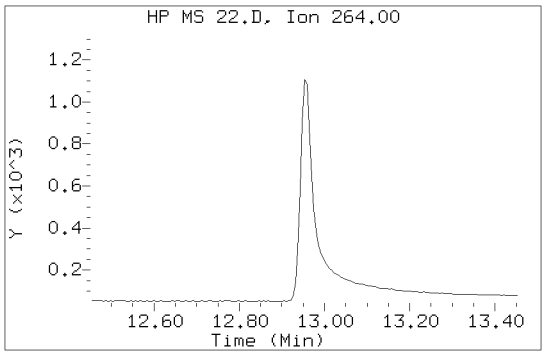
BEFORE

MASS
264
AREA
3041
HEIGHT
1053
28-Aug-2023
19:42
ALSHS
Server



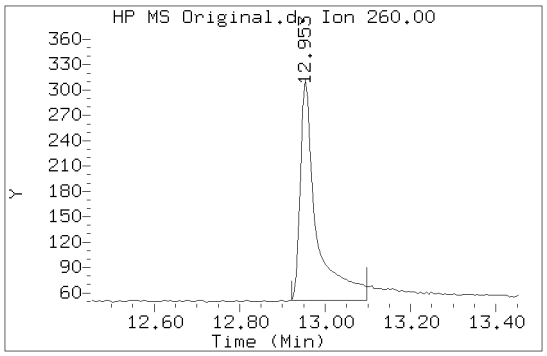
AFTER

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AREA
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HEIGHT
1074
29-Aug-2023
15:27
ALSHS
Ser



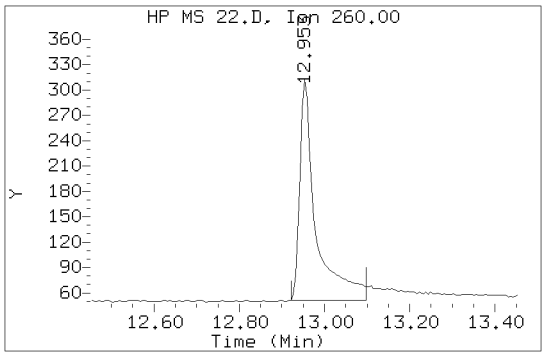
BEFORE

MASS
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AREA
687
HEIGHT
261
28-Aug-2023
19:42
ALSHS
Server



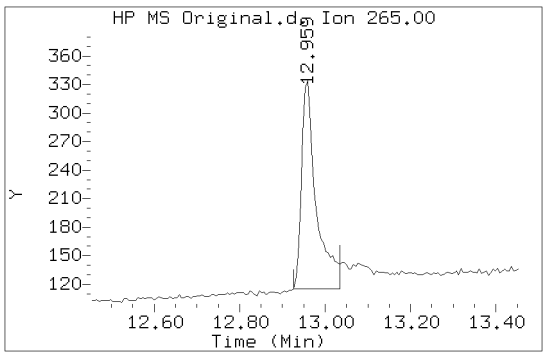
AFTER

MASS
260
AREA
687
HEIGHT
261
29-Aug-2023
15:27
ALSHS
Ser



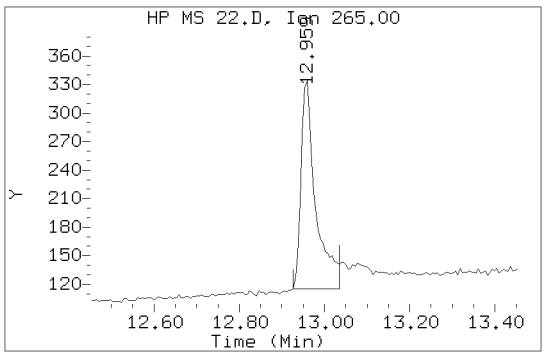
BEFORE

MASS
265
AREA
523
HEIGHT
219
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
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AREA
523
HEIGHT
219
29-Aug-2023
15:27
ALSHS
Ser

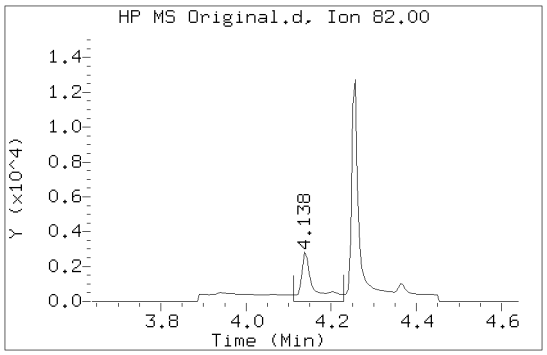


Nitrobenzene-d5 (4165-60-0)

Reason Code:

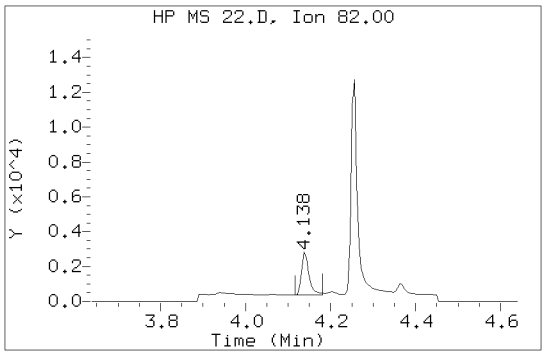
BEFORE

MASS
82
AREA
6010
HEIGHT
2816
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
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AREA
3000
HEIGHT
2443
29-Aug-2023
15:27
ALSHS
Ser



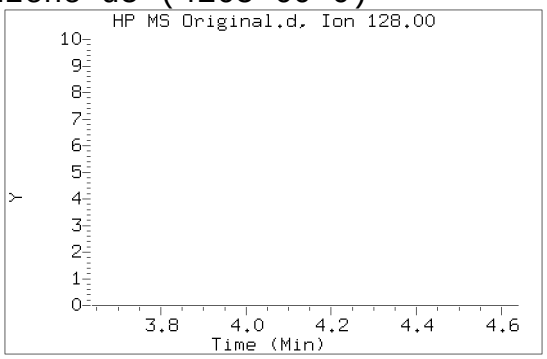
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\22.D
Inj Date : 28-AUG-2023 17:47
InstruID : SV6.i
LabSampID : HS23081076-01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

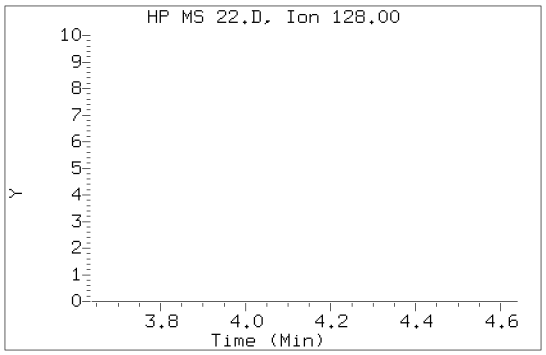
BEFORE

MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



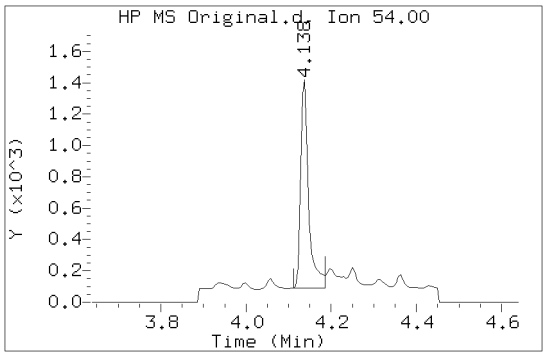
AFTER

MASS
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AREA
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HEIGHT
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29-Aug-2023
15:27
ALSHS
Ser



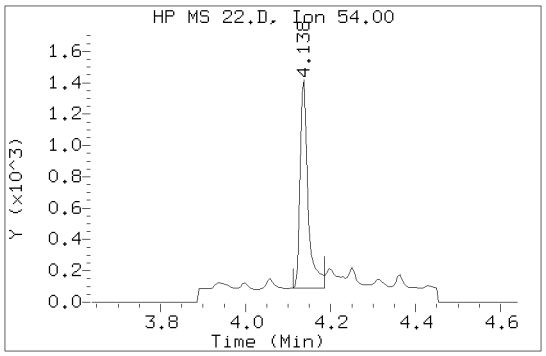
BEFORE

MASS
54
AREA
1757
HEIGHT
1327
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
54
AREA
1757
HEIGHT
1327
29-Aug-2023
15:27
ALSHS
Ser

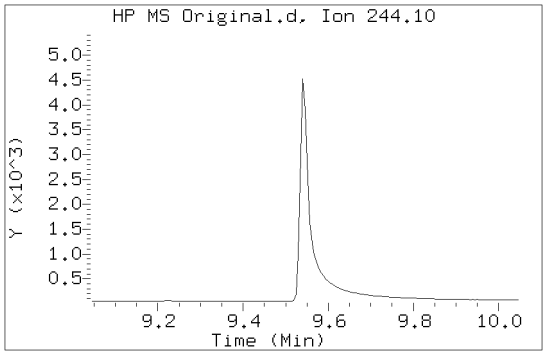


4-Terphenyl-d14 (1718-51-0)

Reason Code:

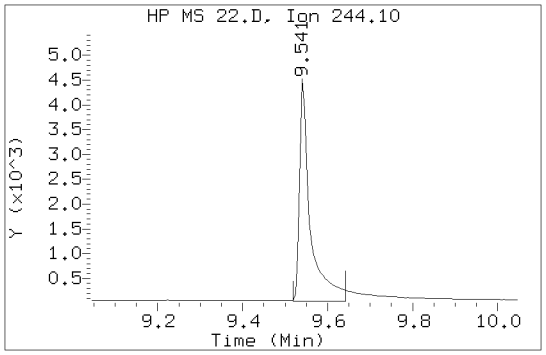
BEFORE

MASS
244.1
AREA
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HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



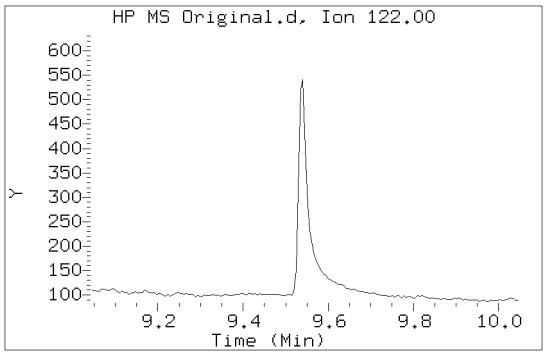
AFTER

MASS
244.1
AREA
7801
HEIGHT
4479
29-Aug-2023
15:27
ALSHS
Ser



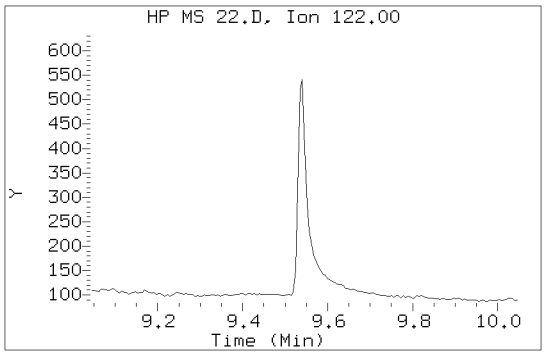
BEFORE

MASS
122
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
122
AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser



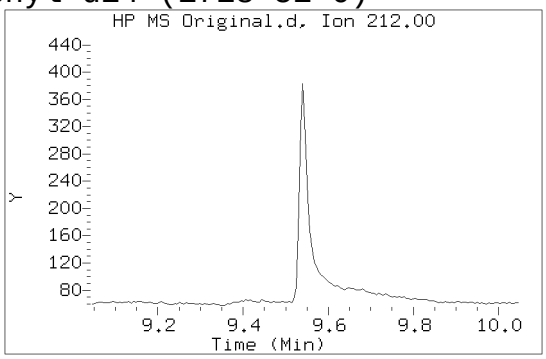
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\22.D
Inj Date : 28-AUG-2023 17:47
InstruID : SV6.i
LabSampID : HS23081076-01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

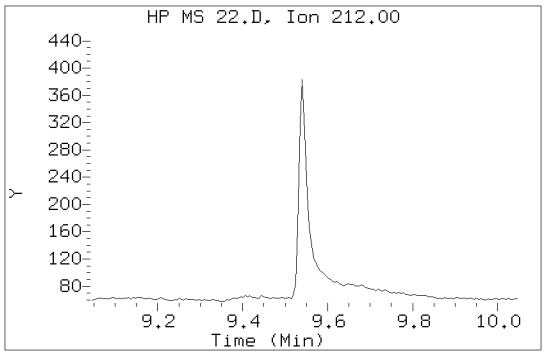
BEFORE

MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\23.D Page 1
Report Date: 29-Aug-2023 15:28

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\23.D
Lab Smp Id: HS23081076-01
Inj Date : 28-AUG-2023 18:05
Operator : LG Inst ID: SV6.i
Smp Info : HS23081076-01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 15:28 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 23
Dil Factor: 5.00000
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	5.000	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	3.665	3.671	(1.000)	4357	0.10000	(a)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	13216	0.10000	(Q)
$ 33 Nitrobenzene-d5	82	4.138	4.137	(0.864)	587	0.01462	0.07309(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	7314	0.10000	
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	1574	0.02104	0.1052(M)
* 126 Phenanthrene-d10	188	7.937	7.937	(1.000)	13462	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	11536	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.540	9.545	(0.881)	1580	0.01856	0.09282(M)
* 198 Perylene-d12	264	12.953	12.958	(1.000)	5394	0.10000	(M)
1 1,4-Dioxane	58	1.886	1.912	(0.515)	3580	0.24217	1.211(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.

01251626

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\23.D

Date : 28-AUG-2023 18:05

Client ID:

Instrument: SV6.i

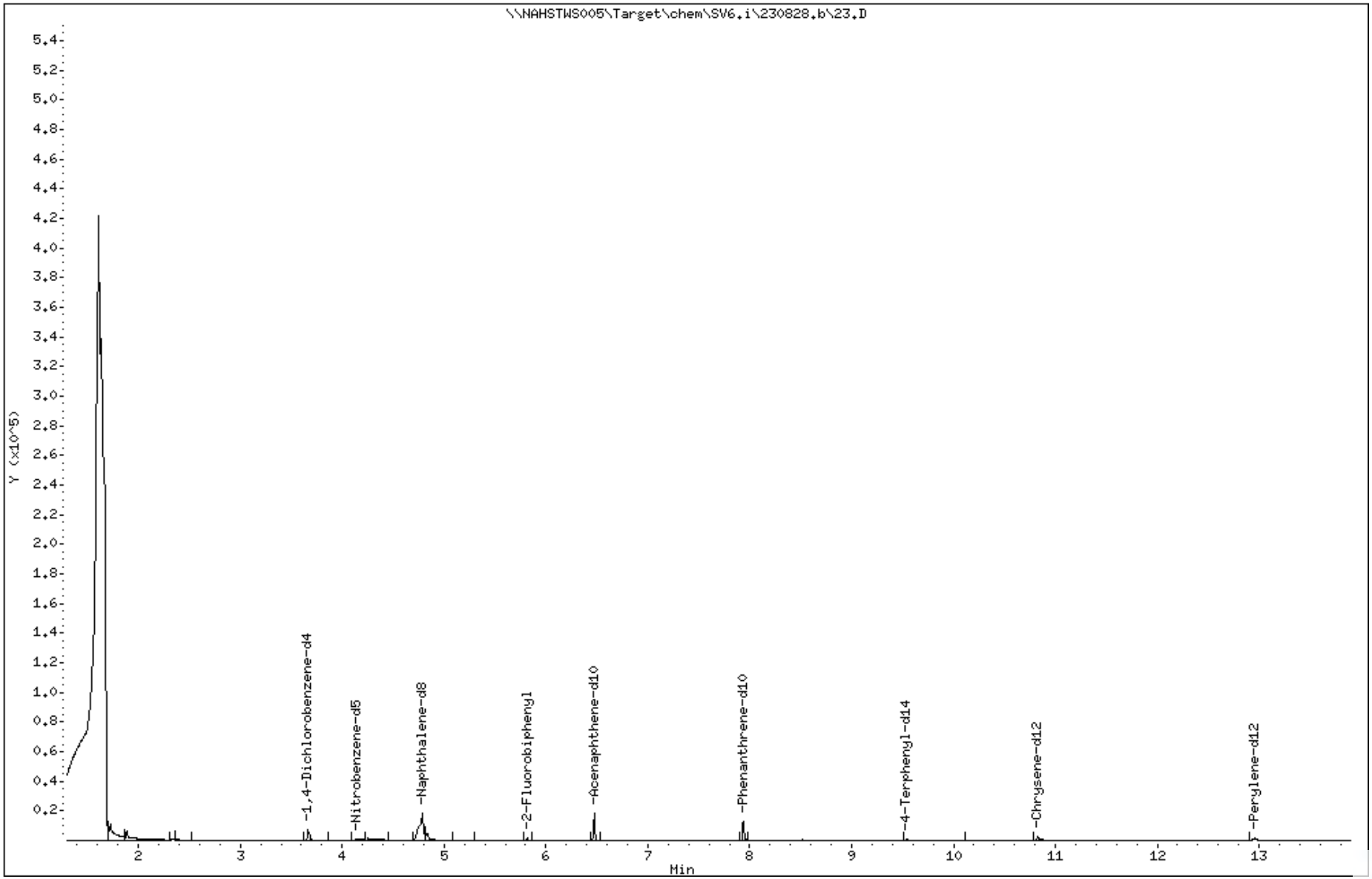
Sample Info: HS23081076-01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\23.D

Date : 28-AUG-2023 18:05

Client ID:

Instrument: SV6.i

Sample Info: HS23081076-01

Purge Volume: 1000.0

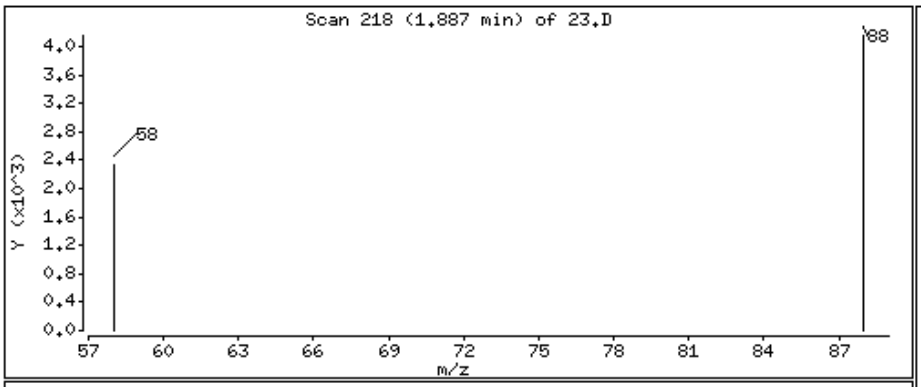
Operator: LG

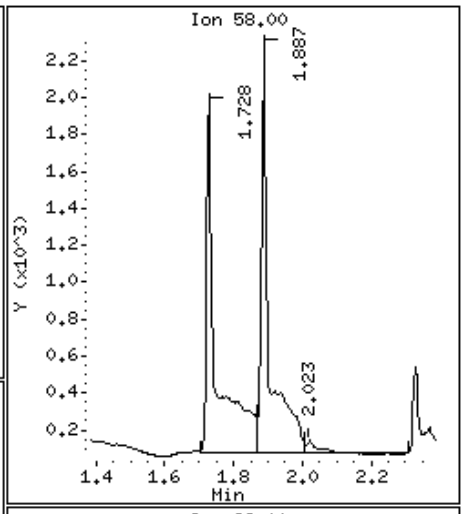
Column phase: RTX-5SIL MS

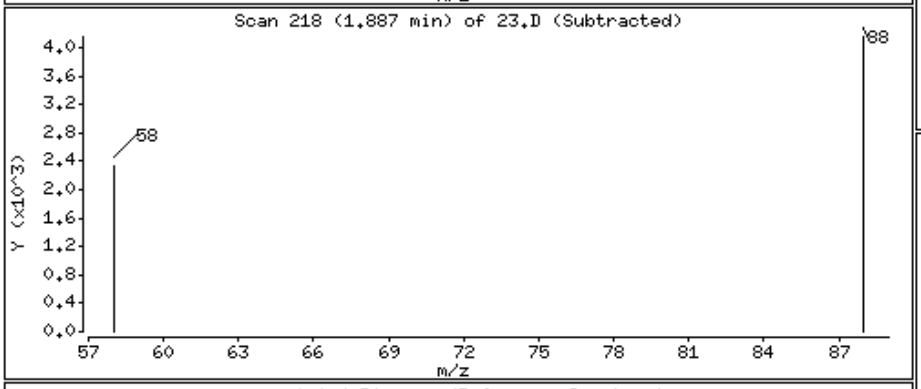
Column diameter: 0.28

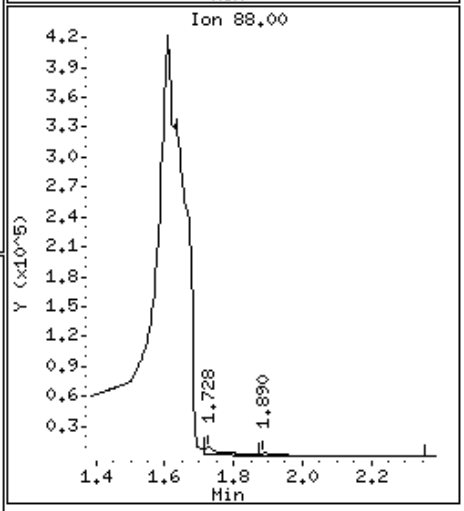
1 1,4-Dioxane

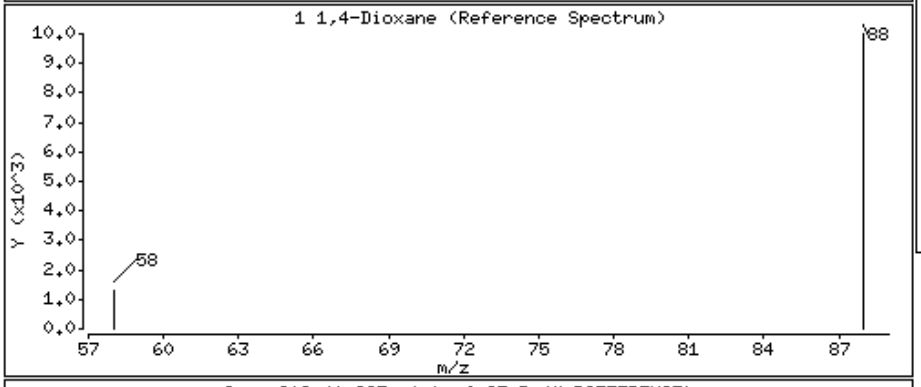
Concentration: 1.211 ug/L

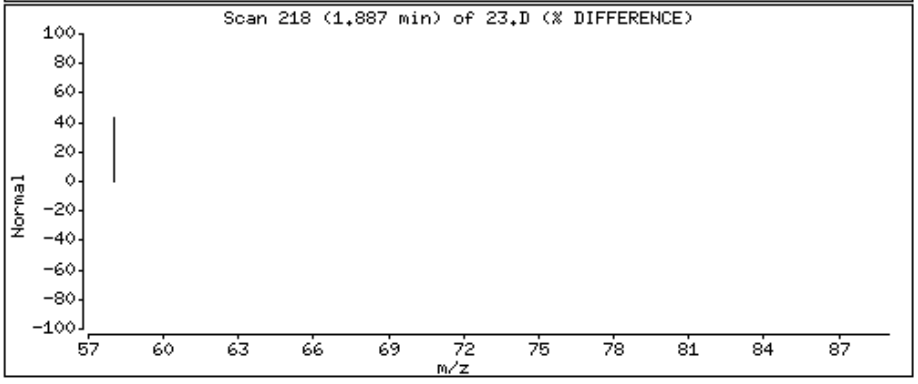












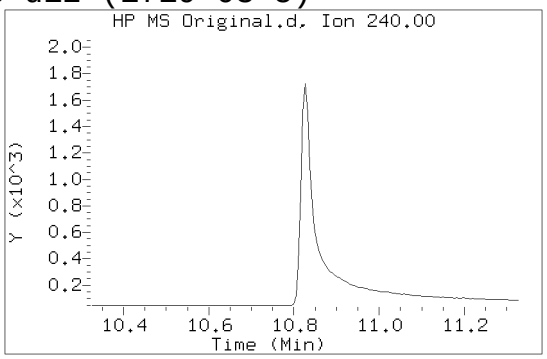
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\23.D
Inj Date : 28-AUG-2023 18:05
InstruID : SV6.i
LabSampID : HS23081076-01

Chrysene-d12 (1719-03-5)

Reason Code:

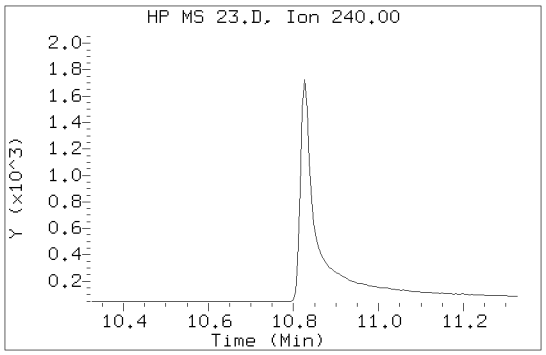
BEFORE

MASS
240
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



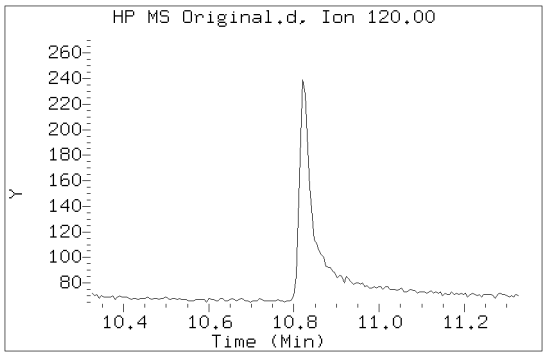
AFTER

MASS
240
AREA
11536
HEIGHT
1724
29-Aug-2023
15:27
ALSHS
Ser



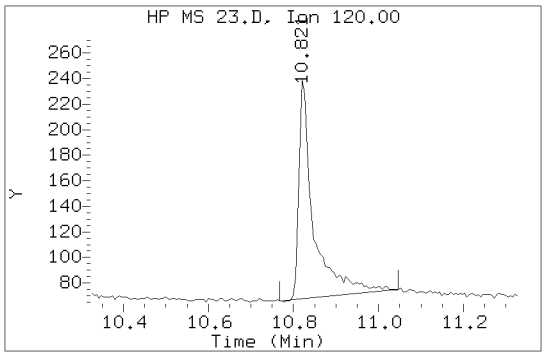
BEFORE

MASS
120
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



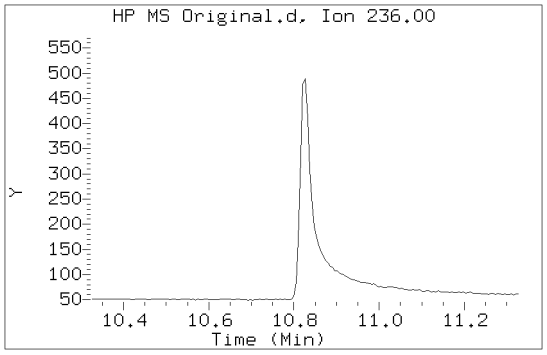
AFTER

MASS
120
AREA
408
HEIGHT
171
29-Aug-2023
15:27
ALSHS
Ser



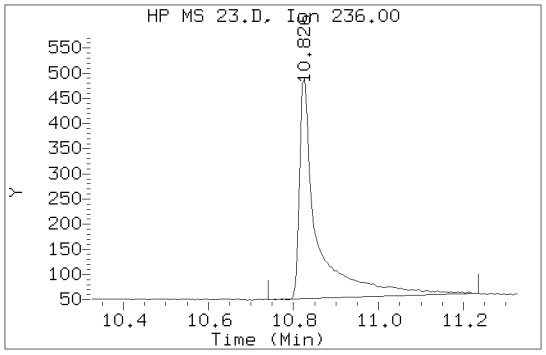
BEFORE

MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
236
AREA
1273
HEIGHT
436
29-Aug-2023
15:27
ALSHS
Ser

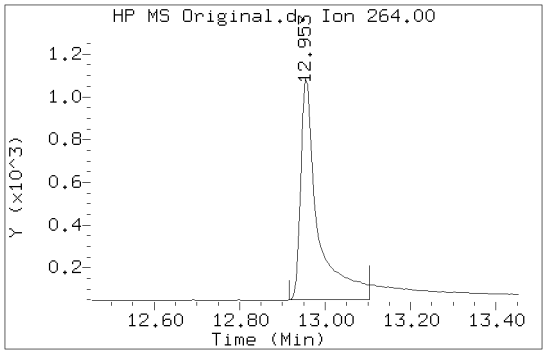


Perylene-d12 (1520-96-3)

Reason Code:

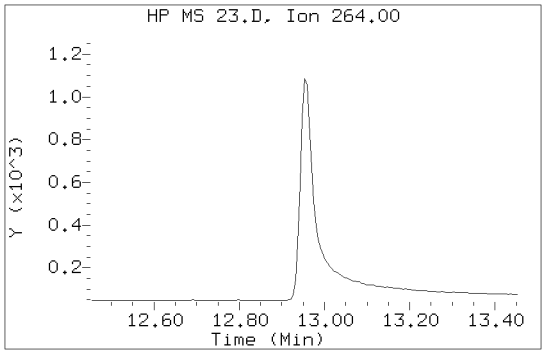
BEFORE

MASS
264
AREA
2900
HEIGHT
1035
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
264
AREA
5394
HEIGHT
1054
29-Aug-2023
15:27
ALSHS
Ser

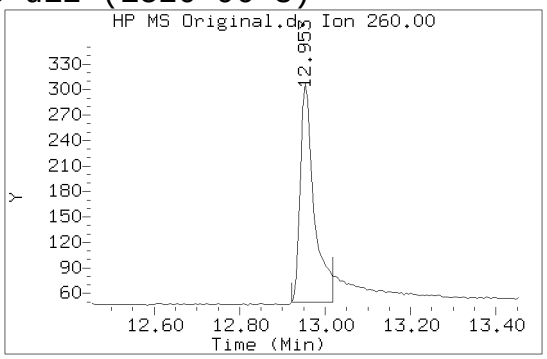


Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\23.D
Inj Date : 28-AUG-2023 18:05
InstruID : SV6.i
LabSampID : HS23081076-01

Perylene-d12 (1520-96-3)

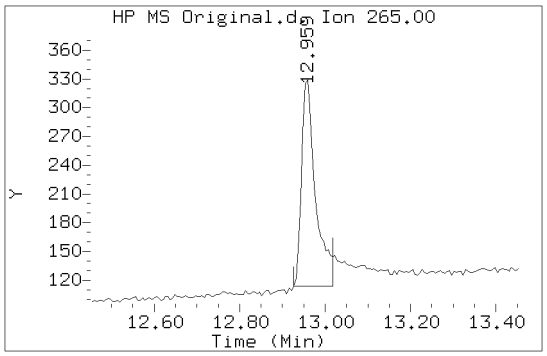
BEFORE

MASS
260
AREA
577
HEIGHT
257
28-Aug-2023
19:42
ALSHS
Server



BEFORE

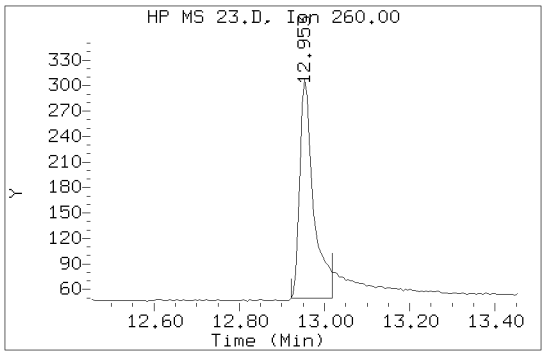
MASS
265
AREA
489
HEIGHT
215
28-Aug-2023
19:42
ALSHS
Server



Reason Code:

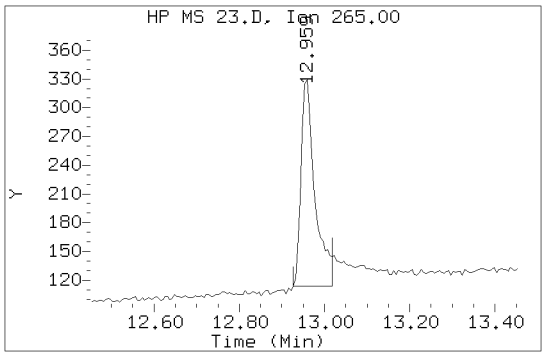
AFTER

MASS
260
AREA
577
HEIGHT
257
29-Aug-2023
15:27
ALSHS
Ser



AFTER

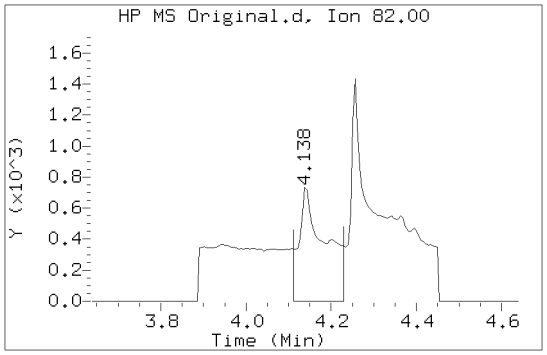
MASS
265
AREA
489
HEIGHT
215
29-Aug-2023
15:27
ALSHS
Ser



Nitrobenzene-d5 (4165-60-0)

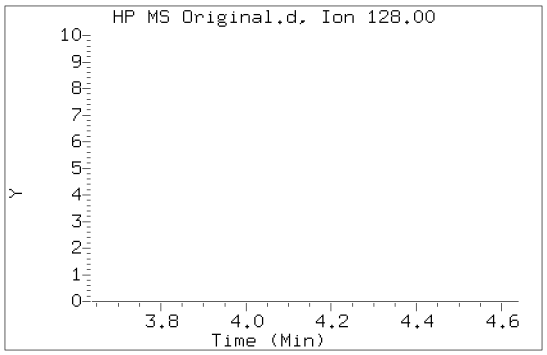
BEFORE

MASS
82
AREA
3207
HEIGHT
734
28-Aug-2023
19:42
ALSHS
Server



BEFORE

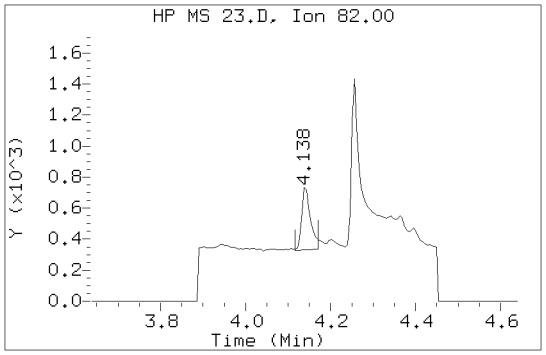
MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



Reason Code:

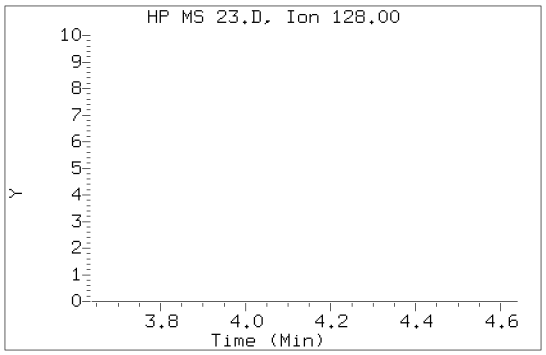
AFTER

MASS
82
AREA
587
HEIGHT
403
29-Aug-2023
15:27
ALSHS
Ser



AFTER

MASS
128
AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser

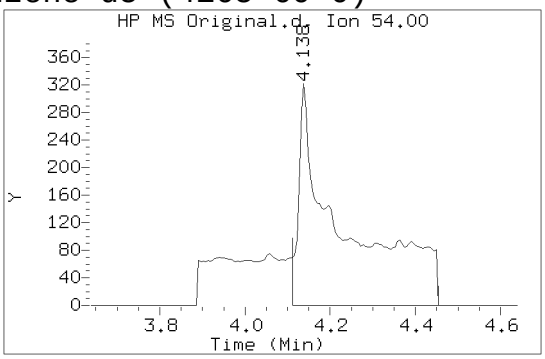


Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\23.D
Inj Date : 28-AUG-2023 18:05
InstruID : SV6.i
LabSampID : HS23081076-01

Nitrobenzene-d5 (4165-60-0)

BEFORE

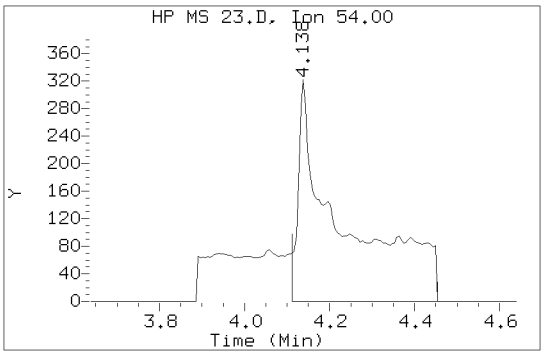
MASS
54
AREA
2294
HEIGHT
322
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
54
AREA
2294
HEIGHT
322
29-Aug-2023
15:27
ALSHS
Ser

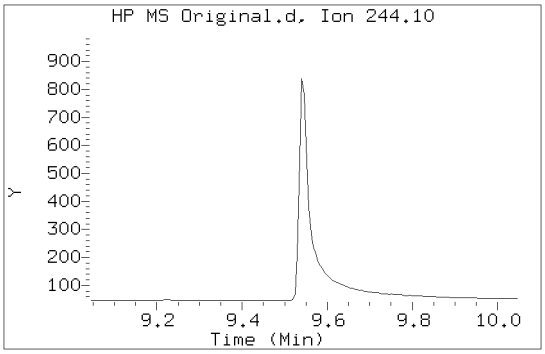
Reason Code:



4-Terphenyl-d14 (1718-51-0)

BEFORE

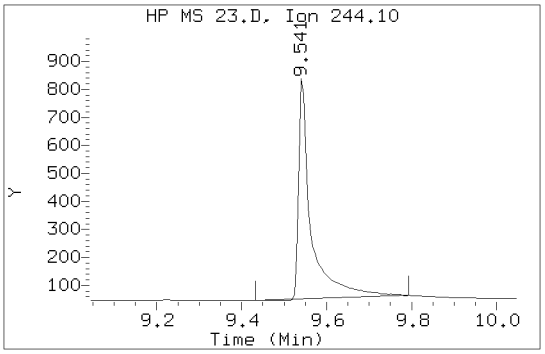
MASS
244.1
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

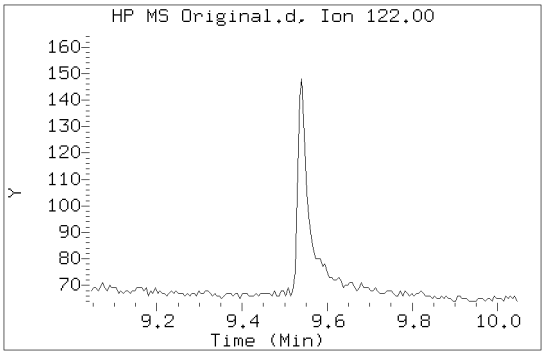
MASS
244.1
AREA
1580
HEIGHT
785
29-Aug-2023
15:27
ALSHS
Ser

Reason Code:



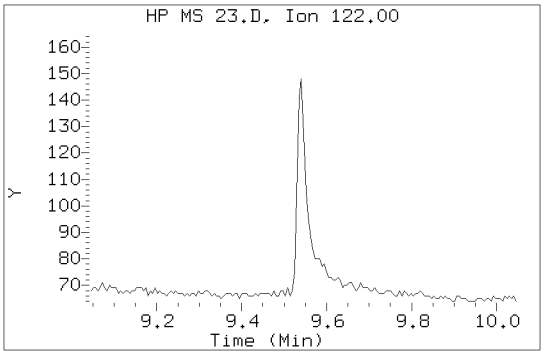
BEFORE

MASS
122
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



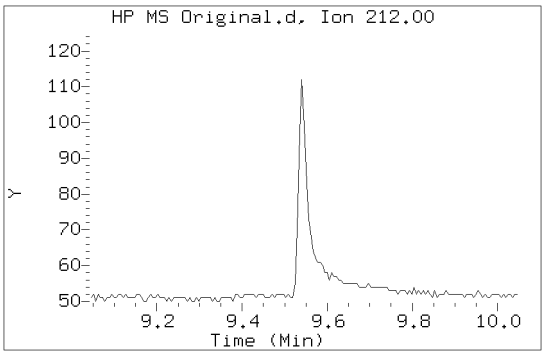
AFTER

MASS
122
AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser



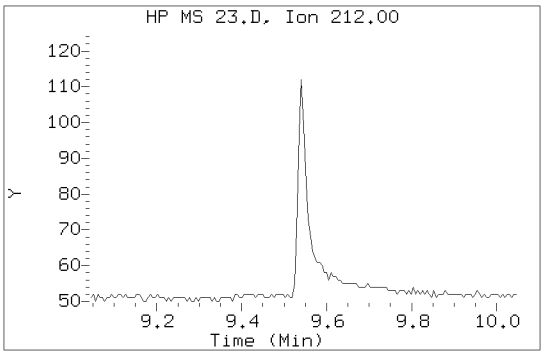
BEFORE

MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
29-Aug-2023
15:27
ALSHS
Ser



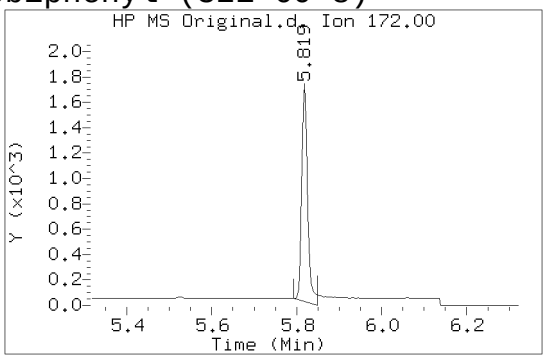
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\23.D
Inj Date : 28-AUG-2023 18:05
InstruID : SV6.i
LabSampID : HS23081076-01

2-Fluorobiphenyl (321-60-8)

Reason Code:

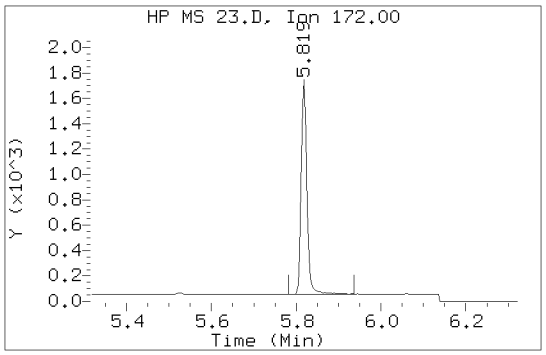
BEFORE

MASS
172
AREA
1637
HEIGHT
1718
28-Aug-2023
19:42
ALSHS
Server



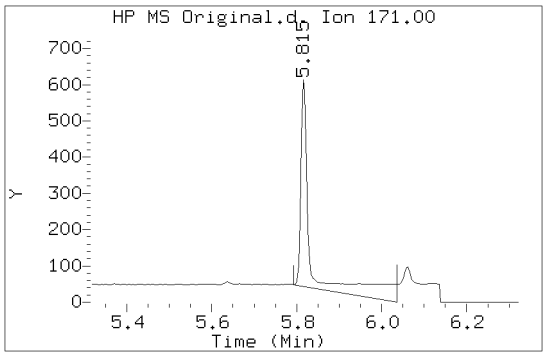
AFTER

MASS
172
AREA
1574
HEIGHT
1691
29-Aug-2023
15:27
ALSHS
Ser



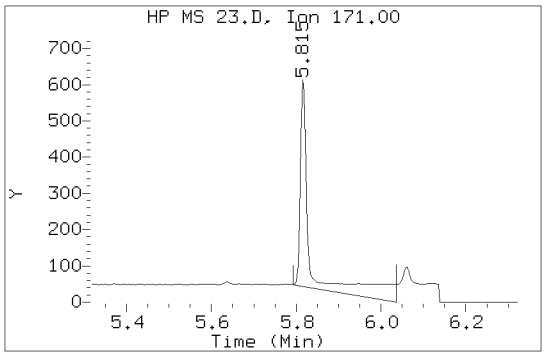
BEFORE

MASS
171
AREA
915
HEIGHT
570
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
171
AREA
915
HEIGHT
570
29-Aug-2023
15:27
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Lab Smp Id: 1 4DX-CCV END Client Smp ID: 1 4DX-CCV END
Inj Date : 28-AUG-2023 18:23
Operator : LG Inst ID: SV6.i
Smp Info : 1 4DX-0.08;;
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230828.b\DXSIM.m
Meth Date : 29-Aug-2023 14:45 SV6.i Quant Type: ISTD
Cal Date : 16-JUN-2023 15:56 Cal File: 15.D
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
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	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	3.665	3.665	(1.000)	5653	0.10000	(a)
* 45 Naphthalene-d8	136	4.790	4.790	(1.000)	19292	0.10000	
$ 33 Nitrobenzene-d5	82	4.138	4.138	(0.864)	4139	0.08000	0.07061(M)
* 86 Acenaphthene-d10	164	6.477	6.477	(1.000)	11012	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.819	5.819	(0.898)	8518	0.08000	0.07564(M)
* 126 Phenanthrene-d10	188	7.937	7.937	(1.000)	20302	0.10000	
* 182 Chrysene-d12	240	10.826	10.826	(1.000)	10454	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.546	9.546	(0.882)	6715	0.08000	0.08706(M)
* 198 Perylene-d12	264	12.953	12.953	(1.000)	6283	0.10000	(M)
1 1,4-Dioxane	58	1.886	1.886	(0.515)	1390	0.08000	0.07247(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.

01251633

Data File: \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D

Date : 28-AUG-2023 18:23

Client ID: 1 4DX-CCV END

Instrument: SV6.i

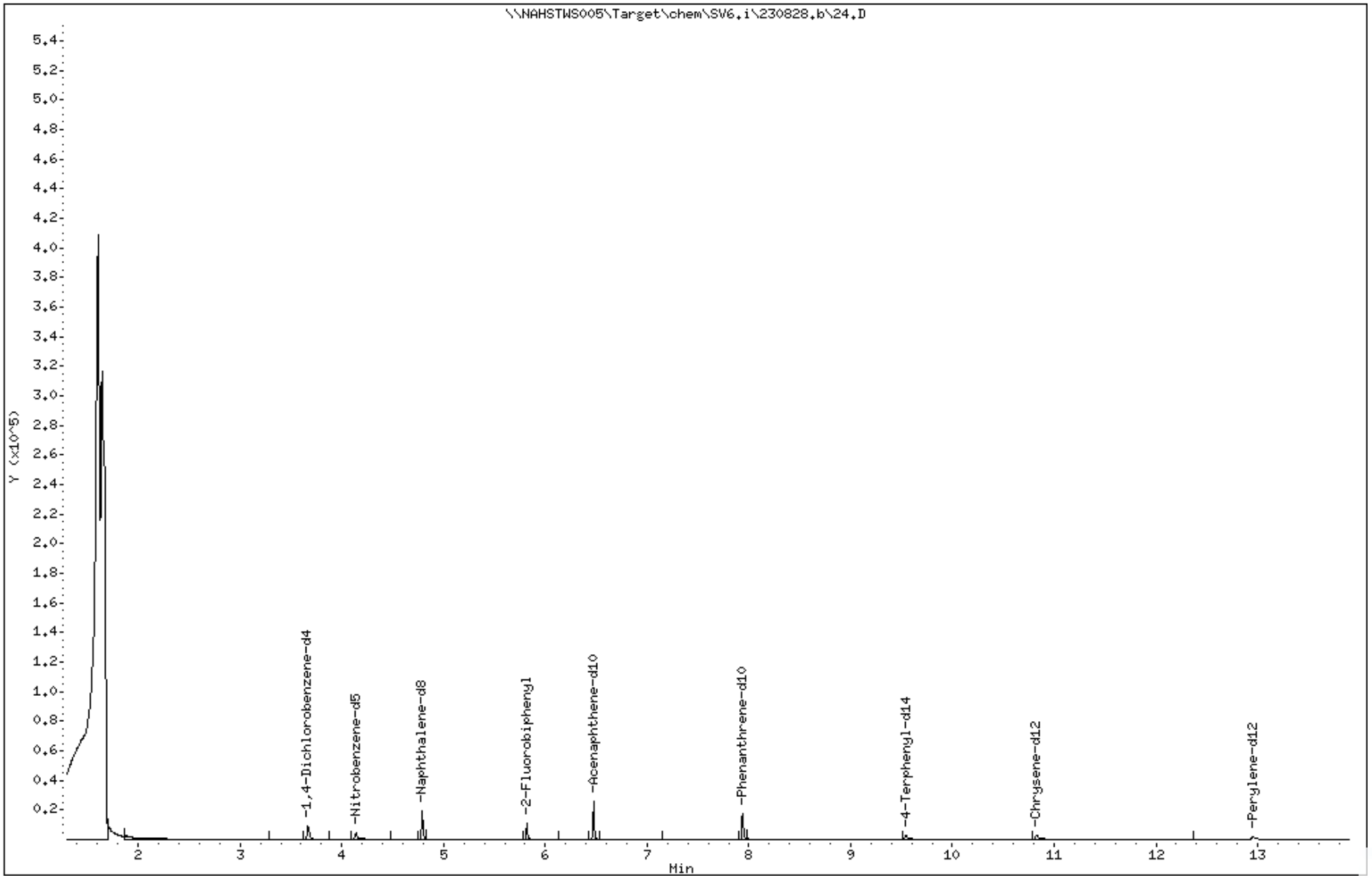
Sample Info: 1 4DX-0.08;;

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



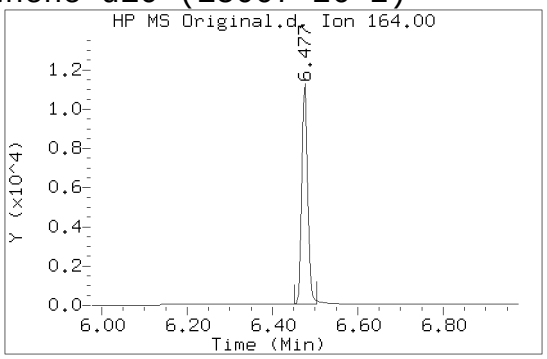
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Inj Date : 28-AUG-2023 18:23
InstruID : SV6.i
LabSampID : 1 4DX-CCV END

Acenaphthene-d10 (15067-26-2)

Reason Code:

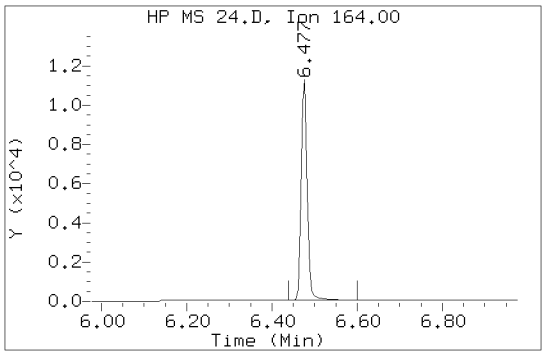
BEFORE

MASS
164
AREA
10844
HEIGHT
11240
28-Aug-2023
19:42
ALSHS
Server



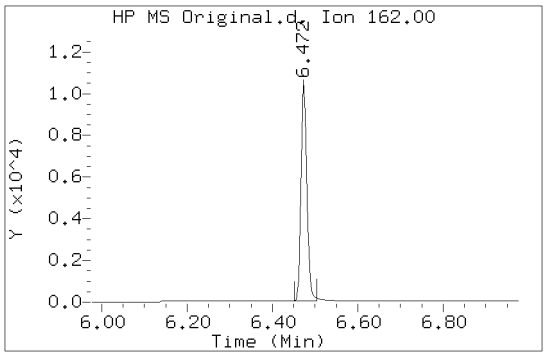
AFTER

MASS
164
AREA
11012
HEIGHT
11237
29-Aug-2023
14:45
ALSHS
Ser



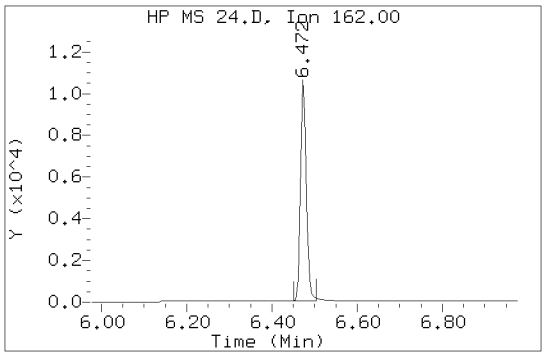
BEFORE

MASS
162
AREA
10082
HEIGHT
10608
28-Aug-2023
19:42
ALSHS
Server



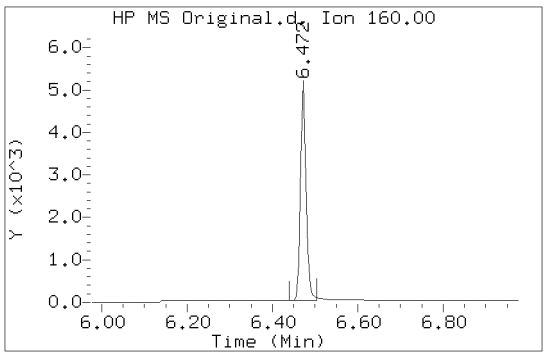
AFTER

MASS
162
AREA
10082
HEIGHT
10608
29-Aug-2023
14:45
ALSHS
Ser



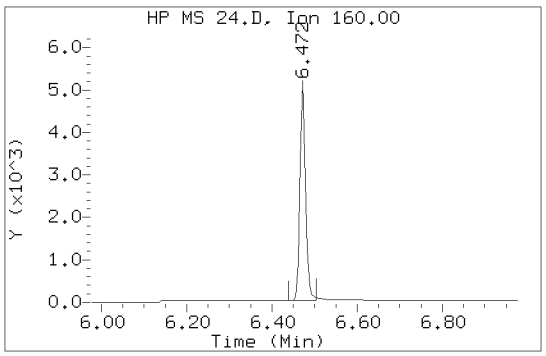
BEFORE

MASS
160
AREA
4703
HEIGHT
5170
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
160
AREA
4703
HEIGHT
5170
29-Aug-2023
14:45
ALSHS
Ser

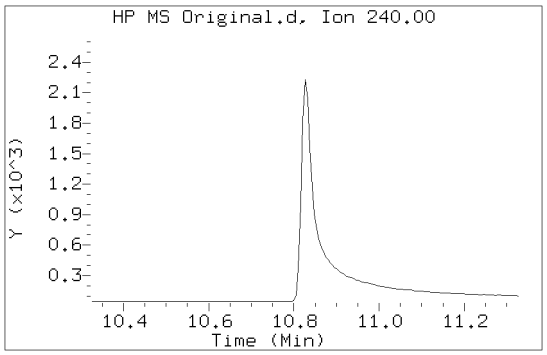


Chrysene-d12 (1719-03-5)

Reason Code:

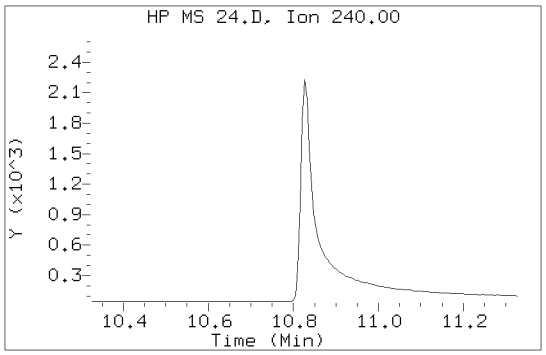
BEFORE

MASS
240
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
240
AREA
10454
HEIGHT
2196
29-Aug-2023
14:45
ALSHS
Ser



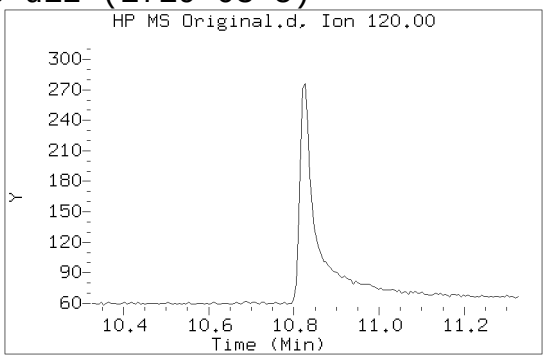
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Inj Date : 28-AUG-2023 18:23
InstruID : SV6.i
LabSampID : 1 4DX-CCV END

Chrysene-d12 (1719-03-5)

Reason Code:

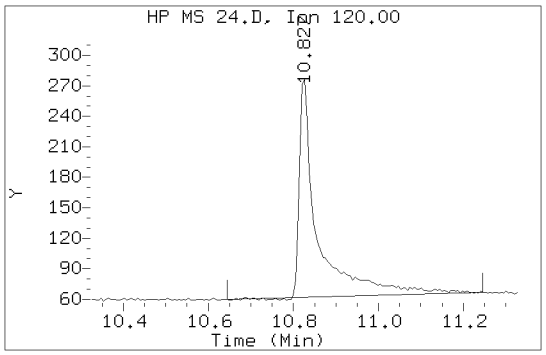
BEFORE

MASS
120
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



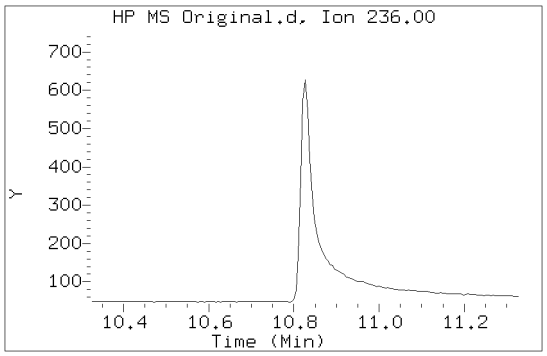
AFTER

MASS
120
AREA
634
HEIGHT
213
29-Aug-2023
14:45
ALSHS
Ser



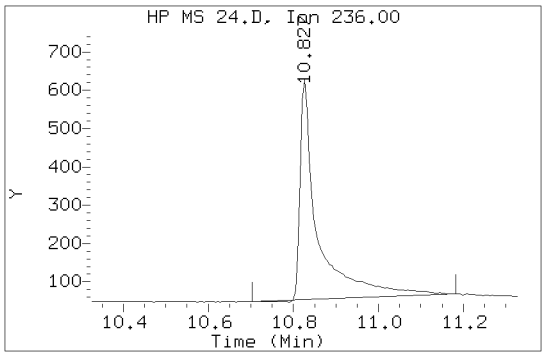
BEFORE

MASS
236
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
236
AREA
1652
HEIGHT
573
29-Aug-2023
14:45
ALSHS
Ser

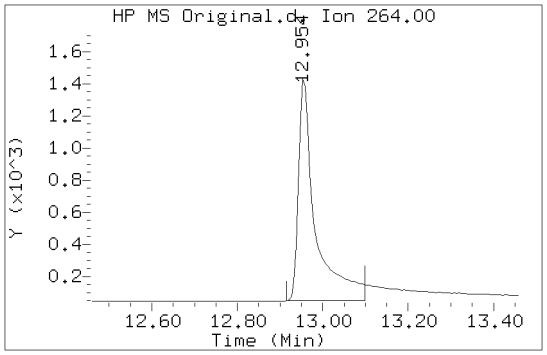


Perylene-d12 (1520-96-3)

Reason Code:

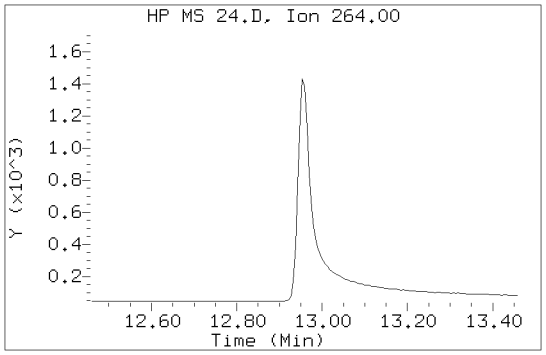
BEFORE

MASS
264
AREA
3803
HEIGHT
1381
28-Aug-2023
19:42
ALSHS
Server



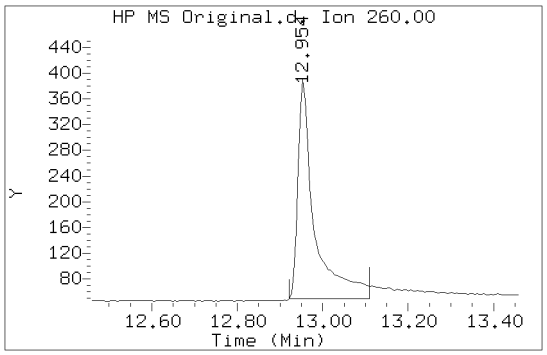
AFTER

MASS
264
AREA
6283
HEIGHT
1387
29-Aug-2023
14:45
ALSHS
Ser



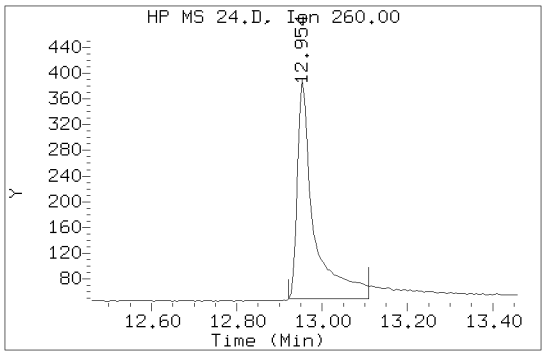
BEFORE

MASS
260
AREA
919
HEIGHT
341
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
260
AREA
919
HEIGHT
341
29-Aug-2023
14:45
ALSHS
Ser



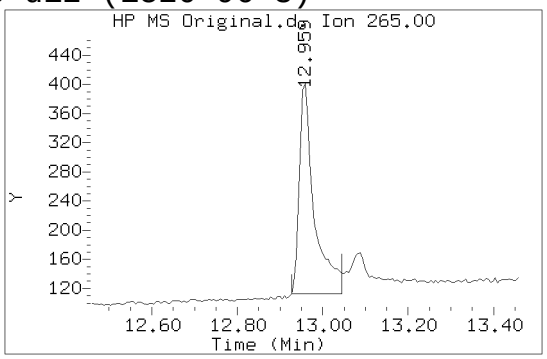
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Inj Date : 28-AUG-2023 18:23
InstruID : SV6.i
LabSampID : 1 4DX-CCV END

Perylene-d12 (1520-96-3)

Reason Code:

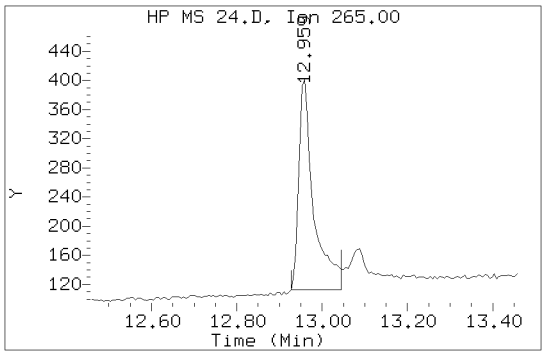
BEFORE

MASS
265
AREA
699
HEIGHT
288
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
265
AREA
699
HEIGHT
288
29-Aug-2023
14:45
ALSHS
Ser

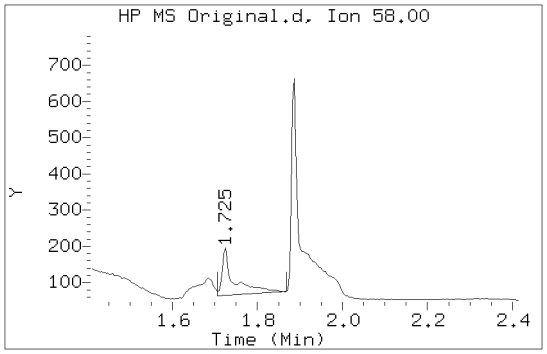


1,4-Dioxane ()

Reason Code:

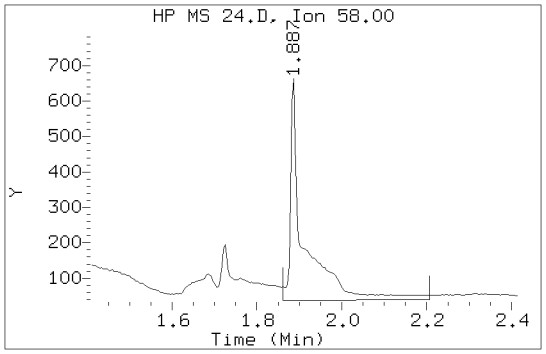
BEFORE

MASS
58
AREA
252
HEIGHT
130
28-Aug-2023
19:42
ALSHS
Server



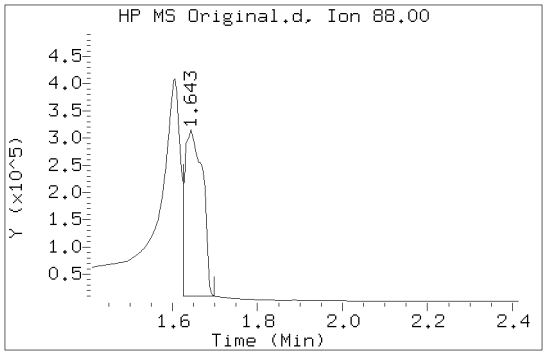
AFTER

MASS
58
AREA
1390
HEIGHT
624
29-Aug-2023
14:45
ALSHS
Ser



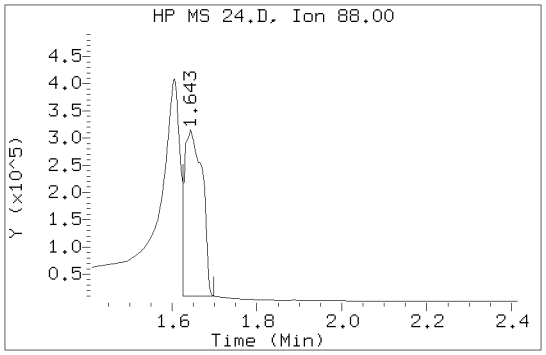
BEFORE

MASS
88
AREA
896926
HEIGHT
306114
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
88
AREA
896926
HEIGHT
306114
29-Aug-2023
14:45
ALSHS
Ser

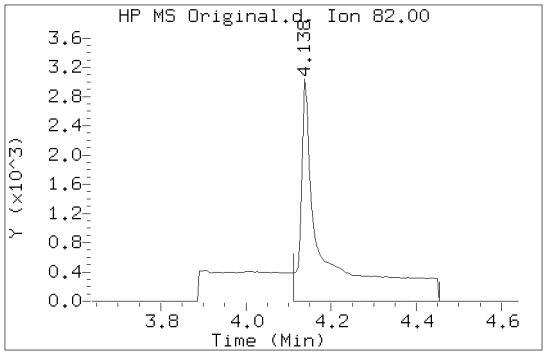


Nitrobenzene-d5 (4165-60-0)

Reason Code:

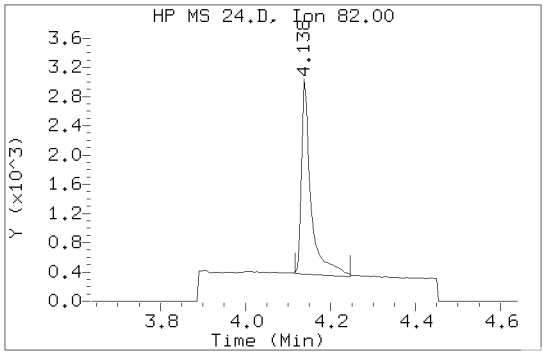
BEFORE

MASS
82
AREA
11153
HEIGHT
3041
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
82
AREA
4139
HEIGHT
2667
29-Aug-2023
14:45
ALSHS
Ser



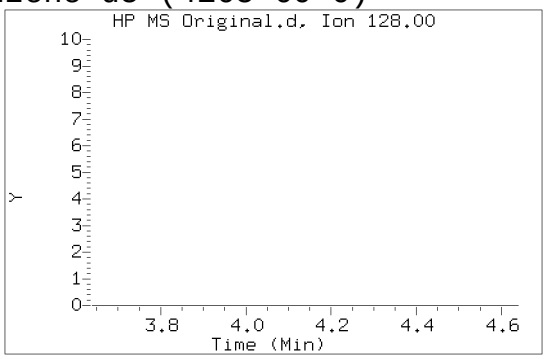
Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Inj Date : 28-AUG-2023 18:23
InstruID : SV6.i
LabSampID : 1 4DX-CCV END

Nitrobenzene-d5 (4165-60-0)

Reason Code:

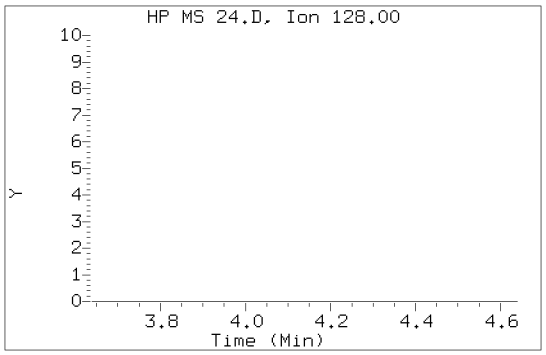
BEFORE

MASS
128
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



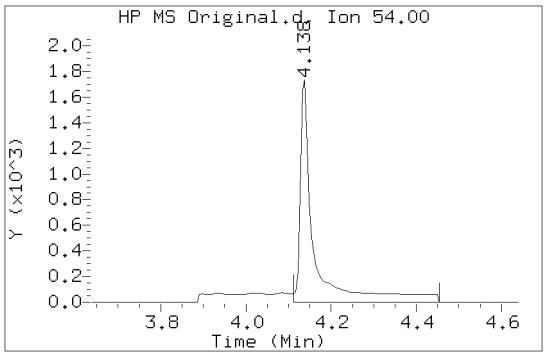
AFTER

MASS
128
AREA
0
HEIGHT
0
29-Aug-2023
14:45
ALSHS
Ser



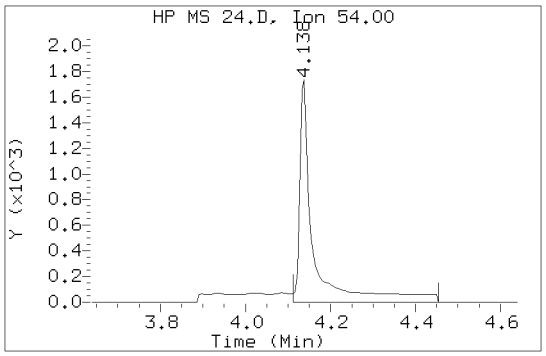
BEFORE

MASS
54
AREA
3915
HEIGHT
1734
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
54
AREA
3915
HEIGHT
1734
29-Aug-2023
14:45
ALSHS
Ser

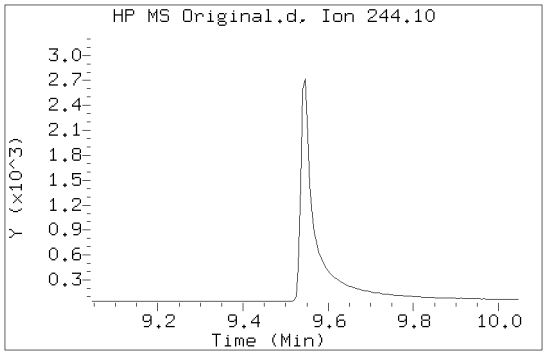


4-Terphenyl-d14 (1718-51-0)

Reason Code:

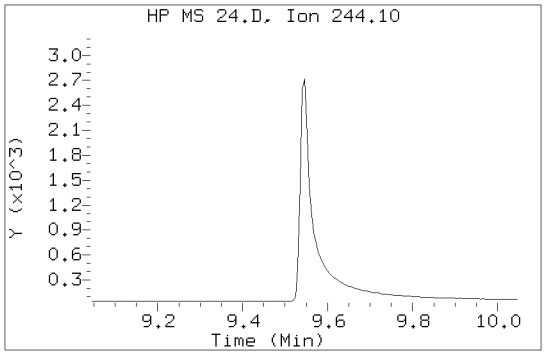
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



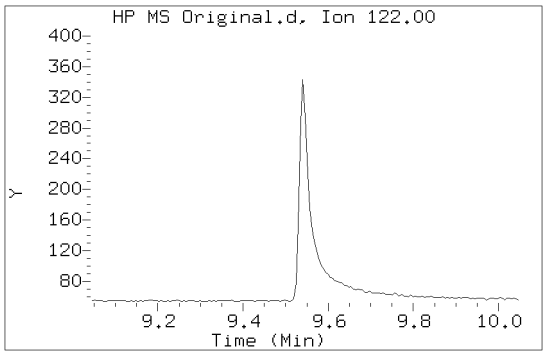
AFTER

MASS
244.1
AREA
6715
HEIGHT
2668
29-Aug-2023
14:45
ALSHS
Ser



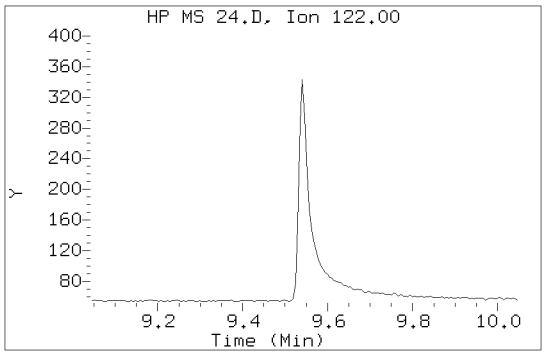
BEFORE

MASS
122
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
122
AREA
0
HEIGHT
0
29-Aug-2023
14:45
ALSHS
Ser

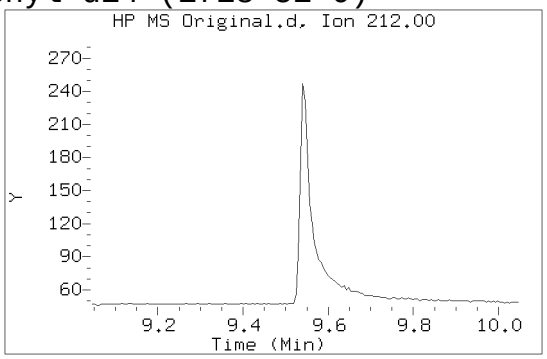


Data File : \\NAHSTWS005\Target\chem\SV6.i\230828.b\24.D
Inj Date : 28-AUG-2023 18:23
InstruID : SV6.i
LabSampID : 1 4DX-CCV END

4-Terphenyl-d14 (1718-51-0)

BEFORE

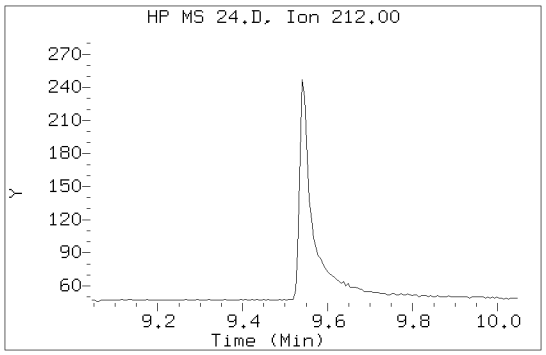
MASS
212
AREA
0
HEIGHT
0
28-Aug-2023
19:42
ALSHS
Server



Reason Code:

AFTER

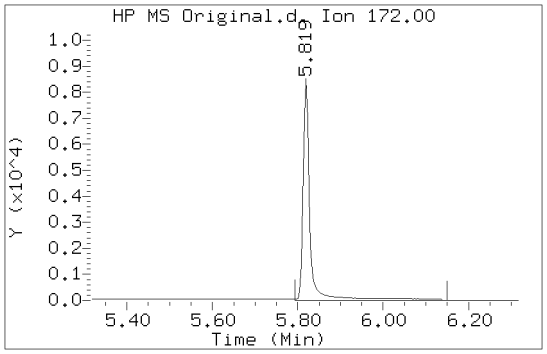
MASS
212
AREA
0
HEIGHT
0
29-Aug-2023
14:45
ALSHS
Ser



2-Fluorobiphenyl (321-60-8)

BEFORE

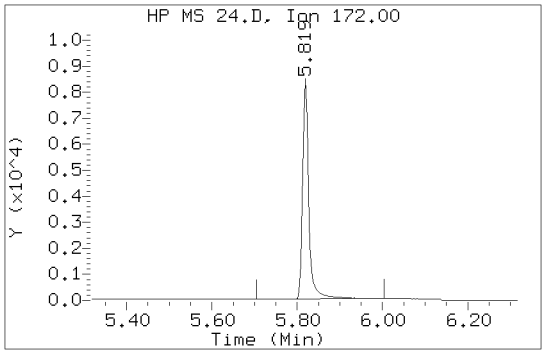
MASS
172
AREA
9924
HEIGHT
8520
28-Aug-2023
19:42
ALSHS
Server



Reason Code:

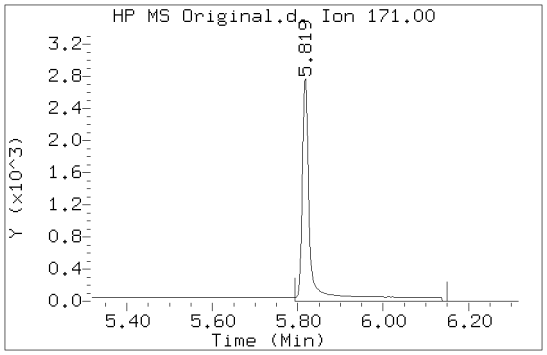
AFTER

MASS
172
AREA
8518
HEIGHT
8462
29-Aug-2023
14:45
ALSHS
Ser



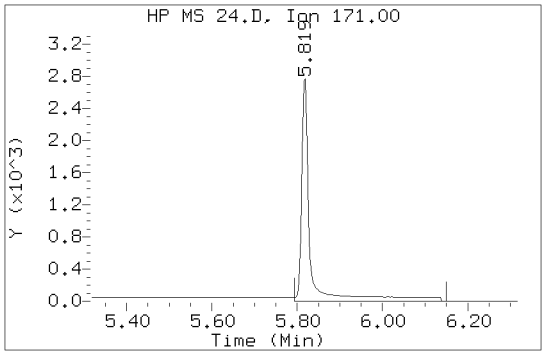
BEFORE

MASS
171
AREA
3969
HEIGHT
2769
28-Aug-2023
19:42
ALSHS
Server



AFTER

MASS
171
AREA
3969
HEIGHT
2769
29-Aug-2023
14:45
ALSHS
Ser



HS23081076 - ME - HG_W_DODICP_W_DOD

ALS WO# HS23081076

ALS Houston, US

Date: 30-Aug-23

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc.

Instrument:ICPMS06

Project: Groundwater Treatment Plant Quarterly Effluent Samples

WorkOrder: HS23081076

Mass	Analyte	Assoc Int Standard 1	Assoc Int Standard 2	Mode
9	Beryllium	Lithium		Ar
11	Boron	Lithium		Ar
23	Sodium	Germanium		ArHe
24	Magnesium	Germanium		ArHe
27	Aluminum	Germanium		ArHe
39	Potassium	Germanium		ArHe
44	Calcium	Germanium		Ar
47	Titanium	Germanium		Ar
51	Vanadium	Germanium		ArHe
52	Chromium	Germanium		ArHe
55	Manganese	Germanium		ArHe
56	Iron	Germanium		ArHe
59	Cobalt	Germanium		ArHe
60	Nickel	Germanium		ArHe
63	Copper	Germanium		ArHe
66	Zinc	Germanium		ArHe
75	Arsenic	Germanium		ArHe
82	Selenium	Germanium		Ar
88	Strontium	Indium		Ar
95	Molybdenum	Indium		Ar
105	Palladium	Germanium		Ar
107	Silver	Indium		Ar
114	Cadmium	Indium		Ar
118	Tin	Indium		Ar
121	Antimony	Germanium		ArHe
137	Barium	Indium		Ar
205	Thallium	Bismuth		Ar
208	Lead	Bismuth		Ar

ALS Houston, US

Date: 30-Aug-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076
Start Date: 28-Aug-2023 End Date: 28-Aug-2023

Run ID:HG04_444967
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICCV 1	1	28-Aug-2023 11:57	HG04_444967 Raw Data_7512500	HG
ICV	1	28-Aug-2023 11:58	_7512501	HG
ICB	1	28-Aug-2023 12:00	_7512502	HG
CRA	1	28-Aug-2023 12:02	_7512503	HG
CCV 2	1	28-Aug-2023 12:09	_7512504	HG
CCB 1	1	28-Aug-2023 12:10	_7512505	HG
CCV 3	1	28-Aug-2023 12:35	_7512516	HG
CCB 2	1	28-Aug-2023 12:37	_7512517	HG
CCV 4	1	28-Aug-2023 12:58	_7512527	HG
CCB 3	1	28-Aug-2023 12:59	_7512528	HG
CCV 5	1	28-Aug-2023 13:25	_7512532	HG
CCB 4	1	28-Aug-2023 13:27	_7512533	HG
CCV 6	1	28-Aug-2023 13:47	_7512544	HG
CCB 5	1	28-Aug-2023 13:49	_7512545	HG
CCV 7	1	28-Aug-2023 14:10	_7512556	HG
CCB 6	1	28-Aug-2023 14:11	_7512557	HG
MBLK-199581	1	28-Aug-2023 14:17	_7512560	HG
LCS-199581	1	28-Aug-2023 14:20	_7512561	HG
ZZZZZZMS	1	28-Aug-2023 14:24	_7512563	HG
ZZZZZZMSD	1	28-Aug-2023 14:25	_7512564	HG
LH18/24-SP650_081623	1	28-Aug-2023 14:27	_7512565	HG
CCV 8	1	28-Aug-2023 14:36	_7512568	HG
CCB 7	1	28-Aug-2023 14:38	_7512569	HG
CCV 9	1	28-Aug-2023 15:00	_7512581	HG
CCB 8	1	28-Aug-2023 15:02	_7512582	HG
CCV 10	1	28-Aug-2023 15:14	_7512638	HG
CCB 9	1	28-Aug-2023 15:16	_7512639	HG

ALS Houston, US

Date: 30-Aug-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076
Start Date: 29-Aug-2023 End Date: 29-Aug-2023

Run ID:ICPMS06_445040
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS06_445040_Tune	1	29-Aug-2023 00:00	ICPMS06_445040_Tune_1	
CAL BLK	1	29-Aug-2023 11:06	015CALB.d_7514503	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	29-Aug-2023 11:08	016CALS.d_7514504	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	29-Aug-2023 11:10	017CALS.d_7514505	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	29-Aug-2023 11:12	018CALS.d_7514506	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	29-Aug-2023 11:14	019CALS.d_7514507	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	29-Aug-2023 11:16	020CALS.d_7514508	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	29-Aug-2023 11:20	022_ICV.d_7514510	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	29-Aug-2023 11:24	024LCV2.d_7514512	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	29-Aug-2023 11:26	025LCV5.d_7514513	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	29-Aug-2023 11:28	026_ICB.d_7514514	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	29-Aug-2023 11:32	028ICSA.d_7514516	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	29-Aug-2023 11:34	029ICSB.d_7514517	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	29-Aug-2023 11:44	032_CCV.d_7514572	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 1	1	29-Aug-2023 11:46	033_CCB.d_7514573	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
MBLK-199483	1	29-Aug-2023 11:55	035SMPL.d_7514575	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP650_081623MS	1	29-Aug-2023 12:01	038SMPL.d_7514578	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP650_081623	100	29-Aug-2023 12:05	040SMPL.d_7514604	NA
LH18/24-SP650_081623SD	500	29-Aug-2023 12:07	041SMPL.d_7514605	NA
LH18/24-SP650_081623PDS	100	29-Aug-2023 12:09	042SMPL.d_7514606	NA
CCV 2	1	29-Aug-2023 12:11	043_CCV.d_7514607	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	29-Aug-2023 12:12	044_CCB.d_7514608	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	29-Aug-2023 12:32	054_CCV.d_7514710	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	29-Aug-2023 12:34	055_CCB.d_7514711	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LCS-199483	1	29-Aug-2023 12:42	059SMPL.d_7514707	TL
CCV 4	1	29-Aug-2023 12:46	061_CCV.d_7514712	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 4	1	29-Aug-2023 12:48	062_CCB.d_7514713	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US

Date: 30-Aug-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076
Start Date: 28-Aug-2023 End Date: 28-Aug-2023

Run ID:ICPMS07_444934
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_444934_Tune	1	28-Aug-2023 00:00	ICPMS07_444934_Tune_1	
CAL BLK	1	28-Aug-2023 17:35	020CALB.d_7513255	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	28-Aug-2023 17:37	021CALS.d_7513256	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	28-Aug-2023 17:39	022CALS.d_7513257	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	28-Aug-2023 17:42	023CALS.d_7513258	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	28-Aug-2023 17:44	024CALS.d_7513259	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	28-Aug-2023 17:46	025CALS.d_7513260	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	28-Aug-2023 17:53	027_ICV.d_7513262	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	28-Aug-2023 17:55	028LCV5.d_7513263	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	28-Aug-2023 17:57	029LCV2.d_7513264	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	28-Aug-2023 18:00	030_ICB.d_7513265	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	28-Aug-2023 18:02	031LCV5.d_7513266	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	28-Aug-2023 18:04	032ICSA.d_7513267	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	28-Aug-2023 18:07	033ICSB.d_7513268	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	28-Aug-2023 18:12	035_CCV.d_7513270	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 1	1	28-Aug-2023 18:14	036_CCB.d_7513271	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	28-Aug-2023 18:24	038_CCB.d_7513273	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	28-Aug-2023 18:26	039_CCB.d_7513274	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 2	1	28-Aug-2023 18:29	040_CCV.d_7513275	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	28-Aug-2023 18:31	041_CCV.d_7513276	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LCS-199483	1	28-Aug-2023 18:38	044SMPL.d_7513278	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE V ZN
LH18/24-SP650_081623	1	28-Aug-2023 18:43	046SMPL.d_7513280	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
LH18/24-SP650_081623SD	5	28-Aug-2023 18:45	047SMPL.d_7513281	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP650_081623MSD	1	28-Aug-2023 18:50	049SMPL.d_7513284	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP650_081623PDS	1	28-Aug-2023 18:52	050SMPL.d_7513285	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
CCB 4	1	28-Aug-2023 19:10	052_CCB.d_7514652	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	28-Aug-2023 19:12	053_CCV.d_7514653	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 5	1	28-Aug-2023 19:17	054_CCB.d_7514654	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 6	1	28-Aug-2023 19:20	055_CCB.d_7514655	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: HG04_444967
Project: Groundwater Treatment Plant Quarterly Effluent Samples Instrument: HG04
WorkOrder: HS23081076 Method: SW7470A

ICCV1 Date: 28-Aug-2023 11:57 Seq: 7512500 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	5.15	103	90-110	

ICV Date: 28-Aug-2023 11:58 Seq: 7512501 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	5.11	102	90-110	

CCV2 Date: 28-Aug-2023 12:09 Seq: 7512504 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	5.13	103	90-110	

CCV3 Date: 28-Aug-2023 12:35 Seq: 7512516 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	5.12	102	90-110	

CCV4 Date: 28-Aug-2023 12:58 Seq: 7512527 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	5.14	103	90-110	

CCV5 Date: 28-Aug-2023 13:25 Seq: 7512532 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.95	99	90-110	

CCV6 Date: 28-Aug-2023 13:47 Seq: 7512544 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.89	98	90-110	

CCV7 Date: 28-Aug-2023 14:10 Seq: 7512556 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.94	99	90-110	

CCV8 Date: 28-Aug-2023 14:36 Seq: 7512568 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.97	99	90-110	

CCV9 Date: 28-Aug-2023 15:00 Seq: 7512581 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.96	99	90-110	

CCV10 Date: 28-Aug-2023 15:14 Seq: 7512638 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Mercury	5	4.98	100	90-110	

ALS Houston, US Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

ICV Date: 29-Aug-2023 11:20 Seq: 7514510 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.15	101	90-110	
Antimony	100	99.398	99	90-110	
Arsenic	100	104.348	104	90-110	
Barium	100	100.512	101	90-110	
Beryllium	100	100.196	100	90-110	
Cadmium	100	102.199	102	90-110	
Calcium	10000	10163.826	102	90-110	
Chromium	100	99.432	99	90-110	
Cobalt	100	100.186	100	90-110	
Iron	10000	10100.598	101	90-110	
Lead	100	99.959	100	90-110	
Magnesium	10000	9988.796	100	90-110	
Manganese	100	99.628	100	90-110	
Nickel	100	100.624	101	90-110	
Potassium	10000	9965.341	100	90-110	
Selenium	100	100.717	101	90-110	
Silver	100	98.915	99	90-110	
Sodium	10000	10025.419	100	90-110	
Thallium	100	102.296	102	90-110	
Vanadium	100	99.37	99	90-110	
Zinc	100	102.028	102	90-110	

CCV1 Date: 29-Aug-2023 11:44 Seq: 7514572 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.511	103	90-110	
Antimony	100	102.825	103	90-110	
Arsenic	100	101.4	101	90-110	
Barium	100	101.771	102	90-110	
Beryllium	100	98.584	99	90-110	
Cadmium	100	101.598	102	90-110	
Calcium	10000	10293.585	103	90-110	
Chromium	100	101.836	102	90-110	
Cobalt	100	103.174	103	90-110	
Iron	10000	10394.375	104	90-110	
Lead	100	101.075	101	90-110	
Magnesium	10000	10167.191	102	90-110	
Manganese	100	102.203	102	90-110	
Nickel	100	106.269	106	90-110	
Potassium	10000	10060.058	101	90-110	
Selenium	100	103.306	103	90-110	
Silver	100	101.817	102	90-110	
Sodium	10000	10230.944	102	90-110	
Thallium	100	98.829	99	90-110	
Vanadium	100	101.15	101	90-110	
Zinc	100	103.117	103	90-110	

CCV2 Date: 29-Aug-2023 12:11 Seq: 7514607 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	100.628	101	90-110	
Antimony	100	99.728	100	90-110	
Arsenic	100	100.055	100	90-110	
Barium	100	100.377	100	90-110	
Beryllium	100	99.377	99	90-110	
Cadmium	100	101.78	102	90-110	
Calcium	10000	10050.667	101	90-110	

ALS Houston, US

Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

CCV2	Date: 29-Aug-2023 12:11		Seq: 7514607	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Chromium	100	98.639	99	90-110	
Cobalt	100	98.096	98	90-110	
Iron	10000	10147.997	101	90-110	
Lead	100	100.901	101	90-110	
Magnesium	10000	9861.363	99	90-110	
Manganese	100	98.019	98	90-110	
Nickel	100	101.332	101	90-110	
Potassium	10000	9976.352	100	90-110	
Selenium	100	98.59	99	90-110	
Silver	100	99.291	99	90-110	
Sodium	10000	10060.574	101	90-110	
Thallium	100	95.447	95	90-110	
Vanadium	100	99.205	99	90-110	
Zinc	100	101.007	101	90-110	

CCV3	Date: 29-Aug-2023 12:32		Seq: 7514710	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	101.05	101	90-110	
Antimony	100	101.759	102	90-110	
Arsenic	100	99.372	99	90-110	
Barium	100	101.833	102	90-110	
Beryllium	100	99.996	100	90-110	
Cadmium	100	100.52	101	90-110	
Calcium	10000	10226.119	102	90-110	
Chromium	100	99.351	99	90-110	
Cobalt	100	100.41	100	90-110	
Iron	10000	10207.331	102	90-110	
Lead	100	101.6	102	90-110	
Magnesium	10000	10207.833	102	90-110	
Manganese	100	100.179	100	90-110	
Nickel	100	101.118	101	90-110	
Potassium	10000	9948.996	100	90-110	
Selenium	100	99.09	99	90-110	
Silver	100	99.99	100	90-110	
Sodium	10000	10166.654	102	90-110	
Thallium	100	95.612	96	90-110	
Vanadium	100	99.386	99	90-110	
Zinc	100	102.045	102	90-110	

CCV4	Date: 29-Aug-2023 12:46		Seq: 7514712	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	103.383	103	90-110	
Antimony	100	101.928	102	90-110	
Arsenic	100	100.765	101	90-110	
Barium	100	99.544	100	90-110	
Beryllium	100	96.968	97	90-110	
Cadmium	100	99.521	100	90-110	
Calcium	10000	10359.859	104	90-110	
Chromium	100	100.734	101	90-110	
Cobalt	100	100.946	101	90-110	
Iron	10000	10194.357	102	90-110	
Lead	100	101.627	102	90-110	
Magnesium	10000	10172.513	102	90-110	
Manganese	100	100.406	100	90-110	
Nickel	100	101.473	101	90-110	

ALS Houston, US

Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

CCV4 | Date: 29-Aug-2023 12:46 | Seq: 7514712 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	9892.28	99	90-110	
Selenium	100	101.441	101	90-110	
Silver	100	98.485	99	90-110	
Sodium	10000	10113.689	101	90-110	
Thallium	100	94.7	95	90-110	
Vanadium	100	99.987	100	90-110	
Zinc	100	101.622	102	90-110	

ALS Houston, US

Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

ICV | Date: 28-Aug-2023 17:53 | Seq: 7513262 | ICV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	106.84	107	90-110	
Antimony	100	97.962	98	90-110	
Arsenic	100	99.208	99	90-110	
Barium	100	99.297	99	90-110	
Beryllium	100	99.004	99	90-110	
Cadmium	100	99.107	99	90-110	
Calcium	10000	9862.653	99	90-110	
Chromium	100	98.734	99	90-110	
Cobalt	100	99.019	99	90-110	
Iron	10000	9892.461	99	90-110	
Lead	100	93.324	93	90-110	
Magnesium	10000	9779.262	98	90-110	
Manganese	100	98.34	98	90-110	
Nickel	100	96.622	97	90-110	
Potassium	10000	9827.497	98	90-110	
Selenium	100	98.823	99	90-110	
Silver	100	99.716	100	90-110	
Sodium	10000	9859.993	99	90-110	
Thallium	100	96.282	96	90-110	
Vanadium	100	97.421	97	90-110	
Zinc	100	100.836	101	90-110	

CCV1 | Date: 28-Aug-2023 18:12 | Seq: 7513270 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	221.726	222	90-110	S
Antimony	100	99.221	99	90-110	
Arsenic	100	100.392	100	90-110	
Barium	100	99.71	100	90-110	
Beryllium	100	94.565	95	90-110	
Cadmium	100	99.526	100	90-110	
Calcium	10000	10035.469	100	90-110	
Chromium	100	100.48	100	90-110	
Cobalt	100	99.703	100	90-110	
Iron	10000	10084.83	101	90-110	
Lead	100	94.423	94	90-110	
Magnesium	10000	10029.686	100	90-110	
Manganese	100	98.926	99	90-110	
Nickel	100	100.745	101	90-110	
Potassium	10000	10072.544	101	90-110	
Selenium	100	100.472	100	90-110	
Silver	100	100.061	100	90-110	
Sodium	10000	10220.69	102	90-110	
Thallium	100	96.774	97	90-110	
Vanadium	100	98.311	98	90-110	
Zinc	100	102.145	102	90-110	

CCV2 | Date: 28-Aug-2023 18:29 | Seq: 7513275 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	105.636	106	90-110	
Antimony	100	97.424	97	90-110	
Arsenic	100	98.72	99	90-110	
Barium	100	98.049	98	90-110	
Beryllium	100	97.449	97	90-110	
Cadmium	100	99.447	99	90-110	
Calcium	10000	9781.706	98	90-110	

ALS Houston, US

Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

CCV2 Date: 28-Aug-2023 18:29 Seq: 7513275 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Chromium	100	97.785	98	90-110	
Cobalt	100	98.575	99	90-110	
Iron	10000	9906.137	99	90-110	
Lead	100	92.388	92	90-110	
Magnesium	10000	9870.878	99	90-110	
Manganese	100	98.373	98	90-110	
Nickel	100	99.099	99	90-110	
Potassium	10000	9879.147	99	90-110	
Selenium	100	98.522	99	90-110	
Silver	100	99.381	99	90-110	
Sodium	10000	9785.511	98	90-110	
Thallium	100	95.06	95	90-110	
Vanadium	100	96.574	97	90-110	
Zinc	100	99.223	99	90-110	

CCV3 Date: 28-Aug-2023 18:31 Seq: 7513276 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	108.805	109	90-110	
Antimony	100	98.709	99	90-110	
Arsenic	100	100.055	100	90-110	
Barium	100	97.997	98	90-110	
Beryllium	100	97.488	98	90-110	
Cadmium	100	98.513	99	90-110	
Calcium	10000	9997.71	100	90-110	
Chromium	100	100.158	100	90-110	
Cobalt	100	99.419	99	90-110	
Iron	10000	9991.284	100	90-110	
Lead	100	93.13	93	90-110	
Magnesium	10000	9983.442	100	90-110	
Manganese	100	99.638	100	90-110	
Nickel	100	99.324	99	90-110	
Potassium	10000	9923.726	99	90-110	
Selenium	100	97.886	98	90-110	
Silver	100	99.186	99	90-110	
Sodium	10000	9987.169	100	90-110	
Thallium	100	97.359	97	90-110	
Vanadium	100	98.169	98	90-110	
Zinc	100	101.339	101	90-110	

CCV4 Date: 28-Aug-2023 19:12 Seq: 7514653 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	108.707	109	90-110	
Antimony	100	96.167	96	90-110	
Arsenic	100	98.218	98	90-110	
Barium	100	97.837	98	90-110	
Beryllium	100	96.979	97	90-110	
Cadmium	100	99.6	100	90-110	
Calcium	10000	9946.241	100	90-110	
Chromium	100	98.144	98	90-110	
Cobalt	100	98.444	98	90-110	
Iron	10000	9917.797	99	90-110	
Lead	100	91.395	91	90-110	
Magnesium	10000	9891.909	99	90-110	
Manganese	100	98.812	99	90-110	
Nickel	100	96.928	97	90-110	

ALS Houston, US Date: 30-Aug-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

CCV4 Date: 28-Aug-2023 19:12 Seq: 7514653 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	10054.812	101	90-110	
Selenium	100	100.509	101	90-110	
Silver	100	99.623	100	90-110	
Sodium	10000	10208.256	102	90-110	
Thallium	100	94.691	95	90-110	
Vanadium	100	98.396	98	90-110	
Zinc	100	98.695	99	90-110	

ALS Houston, US

Date: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: HG04_444967
Instrument: HG04
Method: SW7470A

ICB	Date: 28-Aug-2023 12:00		Seq: 7512502	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB1	Date: 28-Aug-2023 12:10		Seq: 7512505	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB2	Date: 28-Aug-2023 12:37		Seq: 7512517	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB3	Date: 28-Aug-2023 12:59		Seq: 7512528	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB4	Date: 28-Aug-2023 13:27		Seq: 7512533	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB5	Date: 28-Aug-2023 13:49		Seq: 7512545	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB6	Date: 28-Aug-2023 14:11		Seq: 7512557	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

MBLK-199581	Date: 28-Aug-2023 14:17		Seq: 7512560	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB7	Date: 28-Aug-2023 14:38		Seq: 7512569	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB8	Date: 28-Aug-2023 15:02		Seq: 7512582	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB9	Date: 28-Aug-2023 15:16		Seq: 7512639	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

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Date: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

ICB	Date: 29-Aug-2023 11:28		Seq: 7514514	ICB	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	-0.57	0.4	5	J	
Cobalt	5	0.1	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	

CCB1	Date: 29-Aug-2023 11:46		Seq: 7514573	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	4	0.4	4	U	
Cobalt	5	0.2	5	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	0.77	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-199483	Date: 29-Aug-2023 11:55		Seq: 7514575	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	2.191	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	500	34	500	U	

ALS Houston, US

Date: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

MBLK-199483 Date: 29-Aug-2023 11:55 Seq: 7514575 MBLK Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Chromium	5	0.4	5	U
Cobalt	5	0.1	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

CCB2 Date: 29-Aug-2023 12:12 Seq: 7514608 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	4	0.4	4	U
Cobalt	5	0.2	5	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	20.6	14	200	J
Thallium	0.799	0.2	2	J
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

CCB3 Date: 29-Aug-2023 12:34 Seq: 7514711 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	4	0.4	4	U
Cobalt	5	0.2	5	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: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS06_445040
Instrument: ICPMS06
Method: SW6020A

CCB3	Date: 29-Aug-2023 12:34		Seq: 7514711	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	200	14	200	U	
Thallium	0.928	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 29-Aug-2023 12:48		Seq: 7514713	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	4	0.4	4	U	
Cobalt	5	0.2	5	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	0.945	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

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Date: 30-Aug-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 28-Aug-2023 18:00		Seq: 7513265	ICB	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	
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	

CCB1	Date: 28-Aug-2023 18:14		Seq: 7513271	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	53.1	1.8	10		
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	87.82	34	500	J	
Chromium	4	0.4	4	U	
Cobalt	0.223	0.2	5	J	
Iron	75.87	12	200	J	
Lead	2	0.6	2	U	
Magnesium	82.64	10	200	J	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	90.68	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	110.9	14	200	J	
Thallium	0.296	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB2	Date: 28-Aug-2023 18:24		Seq: 7513273	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	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 28-Aug-2023 18:24		Seq: 7513273	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	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	

CCB3	Date: 28-Aug-2023 18:26		Seq: 7513274	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	4	0.4	4	U	
Cobalt	5	0.2	5	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	1.277	1.1	2	J	
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	

CCB4	Date: 28-Aug-2023 19:10		Seq: 7514652	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	60.36	34	500	J	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	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

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID: ICPMS07_444934
Instrument: ICPMS07
Method: SW6020A

CCB4	Date: 28-Aug-2023 19:10		Seq: 7514652	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Potassium	66.53	18	200	J	
Selenium	2.907	1.1	2		
Silver	2	0.2	2	U	
Sodium	315.3	14	200		
Thallium	2	0.2	2	U	
Vanadium	3.11	0.6	5	J	
Zinc	4	2	4	U	

CCB5	Date: 28-Aug-2023 19:17		Seq: 7514654	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	37.38	34	500	J	
Chromium	4	0.4	4	U	
Cobalt	5	0.2	5	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	41.04	18	200	J	
Selenium	1.99	1.1	2	J	
Silver	2	0.2	2	U	
Sodium	208.9	14	200		
Thallium	0.207	0.2	2	J	
Vanadium	0.632	0.6	5	J	
Zinc	4	2	4	U	

CCB6	Date: 28-Aug-2023 19:20		Seq: 7514655	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	4	0.4	4	U	
Cobalt	5	0.2	5	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	1.967	1.1	2	J	
Silver	2	0.2	2	U	
Sodium	187.9	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	0.897	0.6	5	J	
Zinc	4	2	4	U	

ALS Houston, US

Date: 30-Aug-23

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Run ID:ICPMS06_445040
Instrument:ICPMS06
Method:SW6020A

ICSA	Date: 29-Aug-2023 11:32	Seq: 7514516	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	97220	97.2	
Antimony		0.253	0	
Arsenic		0.177	0	
Barium		0.665	0	
Beryllium		-0.007	0	
Cadmium		0.281	0	
Calcium	100000	94150	94.1	
Chromium		1.694	0	
Cobalt		0.366	0	
Iron	100000	100900	101	
Lead		0.174	0	
Magnesium	100000	101900	102	
Manganese		0.731	0	
Nickel		0.886	0	
Potassium	100000	100700	101	
Selenium		0.479	0	
Silver		0.168	0	
Sodium	100000	101800	102	
Thallium		-0.014	0	
Vanadium		-0.032	0	
Zinc		2.65	0	

ICSAB	Date: 29-Aug-2023 11:34	Seq: 7514517	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	95720	95.2	
Antimony	100	101.8	102	
Arsenic	100	104.5	104	
Barium	100	104	104	
Beryllium	100	95.56	95.6	
Cadmium	100	102.2	102	
Calcium	110000	104900	95.4	
Chromium	100	102	102	
Cobalt	100	101.7	102	
Iron	110000	110100	100	
Lead	100	103.6	104	
Magnesium	110000	112100	102	
Manganese	100	101.8	102	
Nickel	100	99.43	99.4	
Potassium	110000	109800	99.8	
Selenium	100	106.7	107	
Silver	100	97.92	97.9	
Sodium	110000	111100	101	
Thallium	100	97.34	97.3	
Vanadium	100	102.4	102	
Zinc	100	103.6	104	

ALS Houston, US Date: 30-Aug-23

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS07_444934
Project: Groundwater Treatment Plant Quarterly Effluent Samples Instrument:ICPMS07
WorkOrder: HS23081076 Method:SW6020A

ICSA	Date: 28-Aug-2023 18:04	Seq: 7513267	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	103500	104	
Antimony		0.322	0	
Arsenic		0.502	0	
Barium		0.957	0	
Beryllium		-0.004	0	
Cadmium		1.273	0	
Calcium	100000	109200	109	
Chromium		1.498	0	
Cobalt		0.273	0	
Iron	100000	106600	107	
Lead		0.24	0	
Magnesium	100000	107200	107	
Manganese		0.455	0	
Nickel		0.839	0	
Potassium	100000	106400	106	
Selenium		-0.366	0	
Silver		0.202	0	
Sodium	100000	107200	107	
Thallium		0.033	0	
Vanadium		0.174	0	
Zinc		3.215	0	

ICSAB	Date: 28-Aug-2023 18:07	Seq: 7513268	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	101900	101	
Antimony	100	103.2	103	
Arsenic	100	103.1	103	
Barium	100	107.2	107	
Beryllium	100	91.17	91.2	
Cadmium	100	105.9	106	
Calcium	110000	117800	107	
Chromium	100	104.3	104	
Cobalt	100	103.8	104	
Iron	110000	116600	106	
Lead	100	100	100	
Magnesium	110000	116300	106	
Manganese	100	104.3	104	
Nickel	100	102.8	103	
Potassium	110000	115300	105	
Selenium	100	100.1	100	
Silver	100	104.1	104	
Sodium	110000	116800	106	
Thallium	100	105.6	106	
Vanadium	100	104.3	104	
Zinc	100	102.6	103	

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Date: 30-Aug-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Date Analyzed: 28-Aug-2023 14:25
Date Extracted: 28-Aug-2023 09:00
Units: ug/L

Matrix Spike: HS23081040-01MS
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	4.650	5.000	92.6	4.610	5.000	91.8	82-119	0.864	20

ALS Houston, US Date: 30-Aug-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Date Analyzed: 28-Aug-2023 18:50
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Matrix Spike: HS23081076-01MS
Client Sample ID: LH18/24-SP650_081623

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	10.45	113.0	100.0	103	112.7	100.0	102	84-117	0.273	20
Antimony	5.000	49.11	50.00	97.6	51.79	50.00	103	85-117	5.32	20
Arsenic	0.6230	52.85	50.00	104	54.36	50.00	107	84-116	2.81	20
Barium	194.6	244.4	50.00	99.5	250.3	50.00	111	86-114	2.40	20
Beryllium	0.2100	47.36	50.00	94.3	48.21	50.00	96.0	83-121	1.80	20
Cadmium	0.2670	50.54	50.00	101	51.46	50.00	102	87-115	1.79	20
Calcium	13490	19280	5000	116	19040	5000	111	87-118	1.21	20
Chromium	5.000	49.96	50.00	99.3	51.78	50.00	103	85-116	3.60	20
Cobalt	0.2280	48.73	50.00	97.0	51.82	50.00	103	86-115	6.14	20
Iron	43.19	5098	5000	101	5243	5000	104	87-118	2.79	20
Lead	5.000	52.23	50.00	104	51.68	50.00	103	88-115	1.06	20
Magnesium	17730	22870	5000	103	23370	5000	113	83-118	2.20	20
Manganese	26.73	76.35	50.00	99.3	79.42	50.00	105	87-115	3.94	20
Nickel	5.000	47.91	50.00	94.9	51.19	50.00	101	85-117	6.62	20
Potassium	2133	7195	5000	101	7387	5000	105	87-115	2.63	20
Selenium	5.000	33.78	50.00	70.2	33.48	50.00	69.7	80-120	0.880	20
Silver	0.2470	49.24	50.00	98.0	47.85	50.00	95.2	85-116	2.87	20
Sodium	822200	832200	5000	200	857900	5000	712	85-117	3.03	20
Thallium	0.5770	41.73	50.00	82.3	43.16	50.00	85.2	82-116	3.36	20
Vanadium	1.615	51.43	50.00	99.6	55.94	50.00	109	86-115	8.41	20
Zinc	3.792	54.77	50.00	102	55.12	50.00	103	83-119	0.639	20

ALS Houston, US Date: 30-Aug-23

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Date Analyzed: 29-Aug-2023 12:09
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: HS23081076-01PDS
Client Sample ID: LH18/24-SP650_081623

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Sodium	835100	1788000	1000000	95	80-120

ALS Houston, US

Date: 30-Aug-23

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Date Analyzed: 28-Aug-2023 18:52
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: HS23081076-01PDS
Client Sample ID: LH18/24-SP650_081623

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	10.45	111.6	100	101	80-120
Antimony	0	98.59	100	98	80-120
Arsenic	0.623	104.8	100	104	80-120
Barium	194.6	294.3	100	100	80-120
Beryllium	0.21	95.86	100	96	80-120
Cadmium	0.267	100.9	100	101	80-120
Calcium	13490	25450	10000	120	80-120
Chromium	0	101	100	101	80-120
Cobalt	0.228	100.1	100	100	80-120
Iron	43.19	10150	10000	101	80-120
Lead	0	100	100	100	80-120
Magnesium	17730	27580	10000	99	80-120
Manganese	26.73	127.4	100	101	80-120
Nickel	0	97.94	100	98	80-120
Potassium	2133	12380	10000	102	80-120
Selenium	0	101.9	100	103	80-120
Silver	0.247	93.55	100	93	80-120
Thallium	0.577	95.7	100	95	80-120
Vanadium	1.615	104.7	100	103	80-120
Zinc	3.792	104.6	100	101	80-120

ALS Houston, US

Date: 30-Aug-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Date Analyzed: 28-Aug-2023 14:20
Date Extracted: 28-Aug-2023 09:00
Units: ug/L

Lab Sample ID: LCS-199581
Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.72	94	82-119

ALS Houston, US Date: 30-Aug-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Date Analyzed: 29-Aug-2023 12:42
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: LCS-199483 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Thallium	50	45.95	92	82-116

ALS Houston, US Date: 30-Aug-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Date Analyzed: 28-Aug-2023 18:38
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: LCS-199483 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	102.6	103	84-117
Antimony	50	49.58	99	85-117
Arsenic	50	50.31	101	84-116
Barium	50	50.19	100	86-114
Beryllium	50	49.22	98	83-121
Cadmium	50	50.67	101	87-115
Calcium	5000	4935	99	87-118
Chromium	50	49.64	99	85-116
Cobalt	50	50.28	101	86-115
Iron	5000	5046	101	87-118
Lead	50	44.06	88	88-115
Magnesium	5000	5067	101	83-118
Manganese	50	50.08	100	87-115
Nickel	50	50.27	101	85-117
Potassium	5000	4998	100	87-115
Selenium	50	51.09	102	80-120
Silver	50	47.68	95	85-116
Sodium	5000	4997	100	85-117
Vanadium	50	48.32	97	86-115
Zinc	50	51.8	104	83-119

ALS Houston, US

Date: 30-Aug-23

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Date Analyzed: 29-Aug-2023 12:07
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: HS23081076-01SD
Client Sample ID:LH18/24-SP650_081623

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Sodium	835100		896200		7	

ALS Houston, US Date: 30-Aug-23

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23081076

Date Analyzed: 28-Aug-2023 18:45
Date Extracted: 24-Aug-2023 14:30
Units: ug/L

Lab Sample ID: HS23081076-01SD
Client Sample ID:LH18/24-SP650_081623

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	10.45		15.48	J	48	
Antimony	0	U	0	U	0	
Arsenic	0.623	J	0	U	0	
Barium	194.6		199.2		2	
Beryllium	0.21	J	0	U	0	
Cadmium	0.267	J	0	U	0	
Calcium	13490		13610		1	
Chromium	0	U	0	U	0	
Cobalt	0.228	J	0	U	0	
Iron	43.19	J	61.14	J	42	
Lead	0	U	0	U	0	
Magnesium	17730		18220		3	
Manganese	26.73		27.49		3	
Nickel	0	U	0	U	0	
Potassium	2133		2059		3	
Selenium	0	U	0	U	0	
Silver	0.247	J	0	U	0	
Sodium	822200		849200		3	
Thallium	0.577	J	0	U	0	
Vanadium	1.615	J	11.04	J	584	
Zinc	3.792	J	0	U	0	

Report Generated By Teledyne Leeman QuickTrace

Analyst: ALSHS.NoUser,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\082823AW.wszf

Creation Date: 8/28/2023 10:22:52 AM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
Calibration Blank					STD	08/28/23 11:45:35 am	0.000	-29	88.52		
	Replicates	-24.8	-7.2	-18.7	-66.9						
Standard #1 (0.2 ppb)					STD	08/28/23 11:47:17 am	0.200	1119	2.66	-5.17%	
	Replicates	1089.7	1107.7	1159.8	1119.2						
Standard #2 (0.5 ppb)					STD	08/28/23 11:48:59 am	0.500	2940	1.39	-5.29%	
	Replicates	2903.3	2914.3	2947.4	2994.3						
Standard #3 (2.0 ppb)					STD	08/28/23 11:50:42 am	2.000	12388	0.28	-2.66%	
	Replicates	12338.1	12394.9	12404.6	12414.1						
Standard #4 (5.0 ppb)					STD	08/28/23 11:52:25 am	5.000	33034	0.14	3.32%	
	Replicates	33002.8	33098.8	32998.8	33036.3						
Standard #5 (10.0 ppb)					STD	08/28/23 11:54:08 am	10.000	62642	0.24	-2.17%	
	Replicates	62469.2	62581.5	62701.2	62817.4						

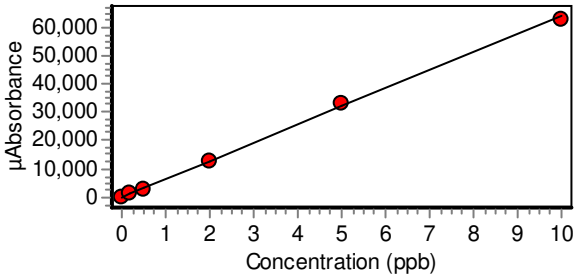
Calibration

Equation: Abs = 6413.237x + -97.239

R2: 0.99895 RSE: 5.08%

SEE: 898.4431

Flags:



ICCV					UNK	08/28/23 11:57:14 am	5.150	32928	0.21		
	Replicates	32836.6	32952.3	32924.8	32998.9						
ICV					UNK	08/28/23 11:58:56 am	5.110	32653	0.25		
	Replicates	32579.0	32591.3	32693.1	32748.5						
ICB					UNK	08/28/23 12:00:38 pm	0.008	-48	51.96		
	Replicates	-33.4	-57.3	-79.6	-22.6						
CRA					UNK	08/28/23 12:02:20 pm	0.209	1245	1.61		
	Replicates	1228.0	1246.7	1230.7	1275.0						
CCV					UNK	08/28/23 12:09:04 pm	5.130	32832	0.46		
	Replicates	32636.8	32807.9	32883.4	33001.2						
CCB					UNK	08/28/23 12:10:48 pm	0.010	-36	30.72		
	Replicates	-53.3	-48.9	-12.6	-28.8						
MBLK-199576					UNK	08/28/23 12:16:12 pm	0.020	31	10.68		
	Replicates	24.0	43.0	42.2	15.3						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-199576				UNK	08/28/23 12:17:54 pm	4.700	30070	0.76		
Replicates	30320.6	29853.0	29902.0	30202.8						
MBLKT1-199444				UNK	08/28/23 12:19:36 pm	0.016	7	7.24		
Replicates	-3.6	14.1	8.6	9.4						
MBLKT2-199512				UNK	08/28/23 12:21:19 pm	0.017	10	23.13		
Replicates	-19.7	37.5	0.5	20.2						
MBLKT3-199226				UNK	08/28/23 12:23:01 pm	0.021	35	16.82		
Replicates	9.1	53.1	23.4	53.7						
MBLKT4-199451				UNK	08/28/23 12:24:44 pm	0.019	27	7.15		
Replicates	22.0	31.6	18.1	37.6						
MBLKT5-199443				UNK	08/28/23 12:26:27 pm	0.018	16	11.00		
Replicates	20.4	-0.5	28.8	13.5						
MBLKT6-199542				UNK	08/28/23 12:28:10 pm	0.018	18	2.53		
Replicates	21.1	20.4	14.9	17.0						
MBLKT7-199543				UNK	08/28/23 12:29:51 pm	0.017	11	29.20		
Replicates	58.1	-10.6	-4.4	1.6						
HS23081000-01				UNK	08/28/23 12:31:32 pm	0.036	137	6.27		
Replicates	122.8	136.9	156.9	130.1						
CCV				UNK	08/28/23 12:35:18 pm	5.120	32762	0.11		
Replicates	32746.3	32740.8	32747.3	32815.5						
CCB				UNK	08/28/23 12:37:02 pm	0.006	-59	41.79		
Replicates	-39.9	-78.3	-62.9	-53.1						
HS23081368-01				UNK	08/28/23 12:38:43 pm	0.015	-1	17.58		
Replicates	-22.8	-3.2	3.5	17.8						
HS23081368-02				UNK	08/28/23 12:40:25 pm	0.017	12	9.64		
Replicates	-1.7	13.0	12.7	24.0						
HS23081368-03				UNK	08/28/23 12:42:07 pm	0.024	59	10.81		
Replicates	42.6	47.7	66.0	79.2						
HS23081370-01				UNK	08/28/23 12:43:50 pm	0.021	35	12.23		
Replicates	33.1	17.7	31.2	56.5						
HS23081371-01				UNK	08/28/23 12:45:32 pm	0.025	60	14.34		
Replicates	79.3	72.7	28.4	60.9						
HS23081421-01				UNK	08/28/23 12:47:14 pm	0.017	9	5.56		
Replicates	6.0	9.5	3.8	17.3						
HS23081421-02				UNK	08/28/23 12:48:57 pm	0.028	83	7.96		
Replicates	68.8	102.7	78.4	80.5						
HS23081437-01				UNK	08/28/23 12:50:40 pm	0.022	42	11.20		
Replicates	28.8	44.3	62.9	31.4						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23081437-01MS					UNK	08/28/23 12:52:22 pm	5.250	33545	0.55		
	Replicates	33311.5	33635.5	33738.6	33493.0						
HS23081437-01MSD					UNK	08/28/23 12:54:05 pm	4.970	31785	0.41		
	Replicates	31982.2	31723.0	31707.0	31728.0						
CCV					UNK	08/28/23 12:58:11 pm	5.140	32863	0.12		
	Replicates	32809.6	32881.8	32861.9	32897.4						
CCB					UNK	08/28/23 12:59:54 pm	0.010	-33	20.06		
	Replicates	-27.8	-16.5	-41.3	-44.7						
HS23081513-01					UNK	08/28/23 01:01:36 pm	0.034	120	13.70		
	Replicates	127.5	76.2	133.7	142.2						
HS23081534-01					UNK	08/28/23 01:03:17 pm	0.018	17	10.10		
	Replicates	11.1	18.3	6.3	32.8						
HS23081606-01					UNK	08/28/23 01:04:59 pm	0.025	64	8.14		
	Replicates	47.6	78.8	61.7	69.0						
HS23081606-02					UNK	08/28/23 01:06:41 pm	0.027	76	2.98		
	Replicates	82.7	75.5	70.1	76.8						
HS23081608-01					UNK	08/28/23 01:08:23 pm	0.023	52	15.12		
	Replicates	36.9	76.7	29.1	64.6						
HS23081613-01					UNK	08/28/23 01:10:05 pm	0.039	152	9.84		
	Replicates	188.4	142.5	137.0	139.3						
HS23081620-01					UNK	08/28/23 01:11:47 pm	0.022	43	23.34		
	Replicates	47.5	-3.7	58.2	71.3						
MBLK-199579					UNK	08/28/23 01:13:30 pm	0.016	6	25.15		
	Replicates	11.6	35.3	-27.7	5.3						
LCS-199579					UNK	08/28/23 01:15:12 pm	8.720	55817	3.77		
	Replicates	58282.8	56629.6	54964.2	53392.2						
HS23081506-01					UNK	08/28/23 01:16:55 pm	0.015	-2	22.05		
	Replicates	10.6	-25.9	-11.9	20.4						
CCV					UNK	08/28/23 01:25:31 pm	4.950	31621	0.30		
	Replicates	31582.2	31557.7	31580.8	31762.8						
CCB					UNK	08/28/23 01:27:15 pm	0.008	-44	19.11		
	Replicates	-32.6	-39.0	-50.8	-54.3						
LCS-199579					UNK	08/28/23 01:28:58 pm	4.750	30381	0.69		
	Replicates	30593.1	30486.8	30338.4	30105.8						
HS23081506-02					UNK	08/28/23 01:30:41 pm	0.015	-3	22.05		
	Replicates	-15.2	-6.3	-18.1	27.1						
HS23081506-03					UNK	08/28/23 01:32:24 pm	0.035	125	6.75		
	Replicates	115.7	123.6	147.3	115.3						

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23081506-04		UNK	08/28/23 01:34:05 pm	0.018	21	12.04		
Replicates	38.1	3.3	23.8	20.0				
HS23081506-05		UNK	08/28/23 01:35:47 pm	0.015	1	5.18		
Replicates	7.9	2.7	-0.8	-4.1				
HS23081506-06		UNK	08/28/23 01:37:29 pm	0.018	17	16.15		
Replicates	2.1	43.8	14.2	8.3				
HS23081511-02		UNK	08/28/23 01:39:11 pm	0.021	34	13.41		
Replicates	37.8	8.6	49.3	40.0				
HS23081511-04		UNK	08/28/23 01:40:53 pm	0.034	123	10.98		
Replicates	92.9	151.2	128.5	118.3				
HS23081548-05		UNK	08/28/23 01:42:35 pm	0.022	45	4.51		
Replicates	39.3	47.7	53.2	40.9				
HS23081548-06		UNK	08/28/23 01:44:17 pm	0.024	56	17.12		
Replicates	51.0	88.8	57.8	25.1				
CCV		UNK	08/28/23 01:47:22 pm	4.890	31233	1.10		
Replicates	30767.8	31196.2	31406.2	31560.9				
CCB		UNK	08/28/23 01:49:06 pm	0.008	-47	22.75		
Replicates	-37.5	-41.6	-63.3	-47.5				
HS23081550-01		UNK	08/28/23 01:50:48 pm	0.015	-4	15.00		
Replicates	-9.6	8.1	-21.1	6.9				
HS23081550-01MS		UNK	08/28/23 01:52:31 pm	2.340	14905	0.61		
Replicates	14815.4	14850.9	14935.1	15020.1				
HS23081550-01MSD		UNK	08/28/23 01:54:13 pm	2.270	14483	0.41		
Replicates	14456.5	14459.2	14444.7	14572.5				
HS23081550-03		UNK	08/28/23 01:55:56 pm	-0.136	-970	0.45		
Replicates	-968.0	-966.1	-970.9	-975.1				
HS23081550-04		UNK	08/28/23 01:57:39 pm	-0.023	-245	10.39		
Replicates	-224.2	-260.3	-243.6	-251.0				
HS23081550-05		UNK	08/28/23 01:59:21 pm	-0.004	-124	34.02		
Replicates	-131.7	-121.7	-131.9	-112.6				
HS23081550-07		UNK	08/28/23 02:01:03 pm	0.004	-68	99.68		
Replicates	-81.2	-76.1	-90.1	-26.1				
HS23081550-08		UNK	08/28/23 02:02:45 pm	0.012	-20	33.23		
Replicates	-29.2	15.6	-44.9	-21.6				
HS23081550-09		UNK	08/28/23 02:04:27 pm	0.008	-44	5.20		
Replicates	-47.0	-40.1	-43.5	-44.0				
HS23081550-10		UNK	08/28/23 02:06:09 pm	0.009	-39	21.68		
Replicates	-33.9	-46.9	-24.7	-52.4				

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCV					UNK	08/28/23 02:10:09 pm	4.940	31554	0.07		
	Replicates	31554.4	31536.2	31537.9	31587.1						
CCB					UNK	08/28/23 02:11:53 pm	0.012	-19	18.83		
	Replicates	-28.7	-33.0	-1.3	-11.5						
HS23081551-01					UNK	08/28/23 02:13:35 pm	0.403	2490	0.89		
	Replicates	2457.9	2487.5	2504.2	2508.8						
HS23081604-02					UNK	08/28/23 02:15:17 pm	0.009	-39	17.57		
	Replicates	-39.2	-40.1	-25.7	-50.7						
MBLK-199581					UNK	08/28/23 02:17:00 pm	0.018	15	22.99		
	Replicates	-16.0	41.9	5.4	30.4						
LCS-199581					UNK	08/28/23 02:20:45 pm	4.720	30159	0.65		
	Replicates	30364.6	30255.5	30108.8	29906.7						
HS23081040-01					UNK	08/28/23 02:22:27 pm	0.018	18	7.10		
	Replicates	28.9	19.3	12.9	10.6						
HS23081040-01MS					UNK	08/28/23 02:24:10 pm	4.650	29754	1.19		
	Replicates	29358.4	29581.3	29907.3	30167.6						
HS23081040-01MSD					UNK	08/28/23 02:25:53 pm	4.610	29454	1.17		
	Replicates	29003.9	29381.7	29641.0	29791.5						
HS23081076-01					UNK	08/28/23 02:27:35 pm	0.012	-21	10.42		
	Replicates	-12.1	-18.7	-31.2	-21.7						
MBLK-199583					UNK	08/28/23 02:29:18 pm	0.015	0	20.57		
	Replicates	-27.4	5.4	2.8	20.4						
LCS-199583					UNK	08/28/23 02:32:59 pm	4.690	30008	0.70		
	Replicates	30274.4	30080.6	29845.6	29832.9						
CCV					UNK	08/28/23 02:36:45 pm	4.970	31749	0.40		
	Replicates	31672.5	31633.7	31765.7	31922.1						
CCB					UNK	08/28/23 02:38:29 pm	0.009	-42	48.32		
	Replicates	-71.8	-18.1	-22.1	-57.7						
HS23081565-01					UNK	08/28/23 02:40:12 pm	0.018	22	10.72		
	Replicates	7.5	37.7	17.0	24.5						
HS23081565-01MS					UNK	08/28/23 02:41:54 pm	4.860	31045	0.32		
	Replicates	31098.7	31153.7	30992.7	30935.2						
HS23081565-01MSD					UNK	08/28/23 02:43:36 pm	4.860	31047	0.50		
	Replicates	30832.2	31046.7	31115.5	31195.2						
MBLK-199582					UNK	08/28/23 02:45:19 pm	0.000	-95	452.52		
	Replicates	-78.1	-104.6	-94.9	-100.9						
LCS-199852					UNK	08/28/23 02:49:07 pm	4.600	29416	0.79		
	Replicates	29084.4	29423.4	29562.9	29592.8						

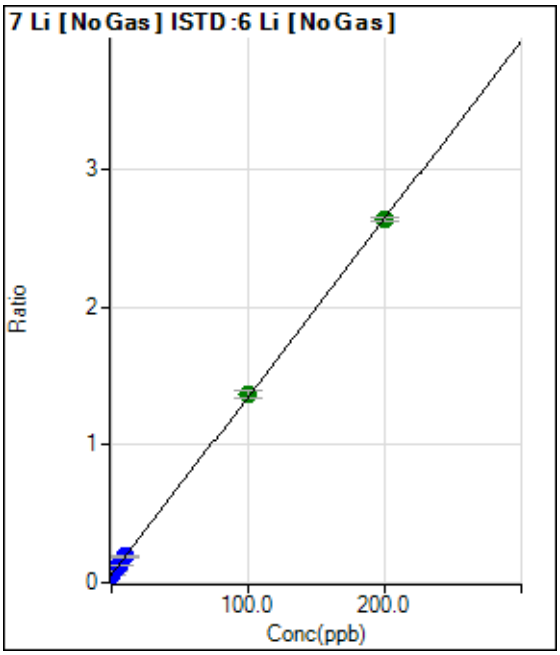
Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23081540-01					UNK	08/28/23 02:50:50 pm	0.032	106	3.54		
	Replicates	94.9	109.5	109.8	108.0						
HS23081540-01MS					UNK	08/28/23 02:52:33 pm	4.750	30353	1.41		
	Replicates	29844.2	30205.7	30517.4	30846.2						
HS23081540-01MSD					UNK	08/28/23 02:54:15 pm	4.760	30409	0.92		
	Replicates	30023.7	30420.2	30498.8	30693.7						
HS23081547-01					UNK	08/28/23 02:55:58 pm	0.039	151	5.09		
	Replicates	139.5	145.4	148.4	168.6						
MBLK-199584					UNK	08/28/23 02:57:41 pm	0.021	40	21.32		
	Replicates	51.4	2.7	35.7	72.3						
CCV					UNK	08/28/23 03:00:29 pm	4.960	31710	0.39		
	Replicates	31603.2	31627.9	31735.4	31872.6						
CCB					UNK	08/28/23 03:02:12 pm	0.010	-32	12.67		
	Replicates	-32.0	-22.4	-31.4	-42.6						
LCS-199584					UNK	08/28/23 03:03:55 pm	5.410	34599	0.09		
	Replicates	34605.3	34584.0	34640.2	34566.5						
HS23081059-01					UNK	08/28/23 03:05:37 pm	0.023	52	4.94		
	Replicates	49.3	56.2	60.2	43.6						
HS23081059-01MS					UNK	08/28/23 03:07:19 pm	4.520	28907	0.87		
	Replicates	28594.3	28856.5	28974.9	29203.0						
HS23081059-01MSD					UNK	08/28/23 03:09:02 pm	4.530	28940	0.57		
	Replicates	28750.0	28884.3	28979.5	29146.3						
HS23081059-02					UNK	08/28/23 03:10:44 pm	0.014	-7	18.20		
	Replicates	-17.9	13.8	-0.2	-21.9						
HS23081059-03					UNK	08/28/23 03:12:26 pm	0.026	73	12.68		
	Replicates	77.1	76.1	94.8	43.1						
CCV					UNK	08/28/23 03:14:27 pm	4.980	31824	0.09		
	Replicates	31814.1	31866.2	31809.5	31807.9						
CCB					UNK	08/28/23 03:16:11 pm	0.009	-37	55.86		
	Replicates	-6.6	-10.6	-60.1	-71.8						

Calibration for 306_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\082923A.b\
Analysis File: 082923A.batch.bin
DA Date-Time: 8/29/2023 11:29:01 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	299CALB.d	CAL BLK	8/29/2023 11:14:46 PM
2	300CALS.d	2/10/200	8/29/2023 11:16:43 PM
3	301CALS.d	5/25/500	8/29/2023 11:18:41 PM
4	302CALS.d	10/50/100	8/29/2023 11:20:37 PM
5	303CALS.d	100/500/10K	8/29/2023 11:22:34 PM
6	304CALS.d	200/1000/20K	8/29/2023 11:24:27 PM

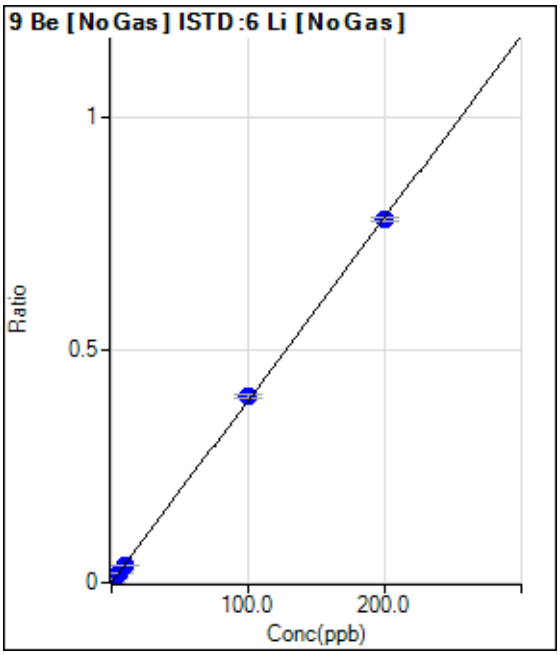
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36308.40	0.0587	P	1.3
2	☐	2.000	2.003	52957.41	0.0846	P	1.1
3	☐	5.000	4.940	77513.84	0.1225	P	0.8
4	☐	10.000	10.067	117877.35	0.1888	P	2.2
5	☐	100.000	101.176	826558.61	1.3658	A	4.1
6	☐	200.000	199.410	1551795.70	2.6348	A	1.1

y = 0.0129 * x + 0.0587
R = 1.0000
DL = 0.1715
BEC = 4.544

Weight: <None>
Min Conc: <None>

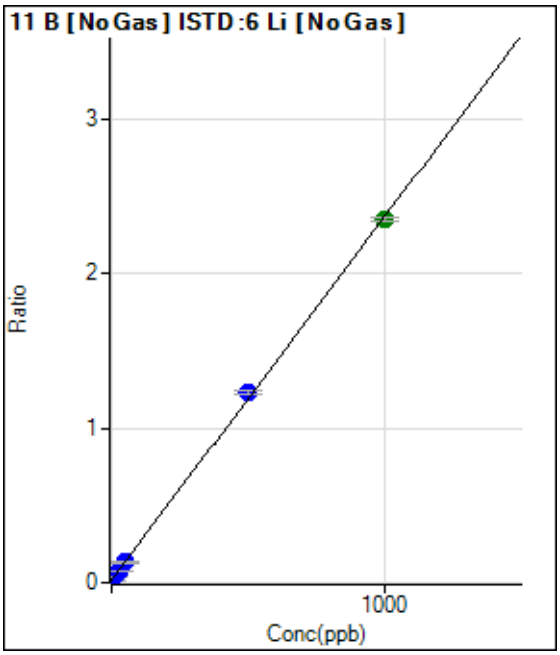


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.33	0.0000	P	19.9
2	☐	2.000	1.928	4752.51	0.0076	P	3.1
3	☐	5.000	4.848	12031.89	0.0190	P	3.2
4	☐	10.000	9.707	23758.45	0.0380	P	1.1
5	☐	100.000	102.198	242131.56	0.4000	P	2.4
6	☐	200.000	198.920	458569.84	0.7786	P	0.9

y = 0.0039 * x + 4.5785E-005
R = 0.9999
DL = 0.006994
BEC = 0.0117

Weight: <None>
Min Conc: <None>

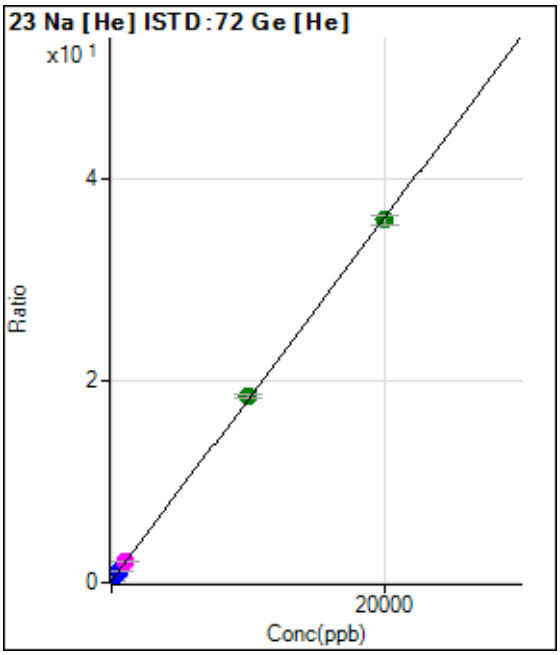
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10465.63	0.0169	P	1.2
2	☐	10.000	9.158	24084.05	0.0385	P	0.6
3	☐	25.000	23.483	45655.64	0.0722	P	0.9
4	☐	50.000	48.929	82443.85	0.1320	P	3.0
5	☐	500.000	515.997	745032.59	1.2308	P	1.6
6	☐	1000.000	992.101	1384543.36	2.3509	A	1.0

y = 0.0024 * x + 0.0169
R = 0.9998
DL = 0.2662
BEC = 7.193

Weight: <None>
Min Conc: <None>

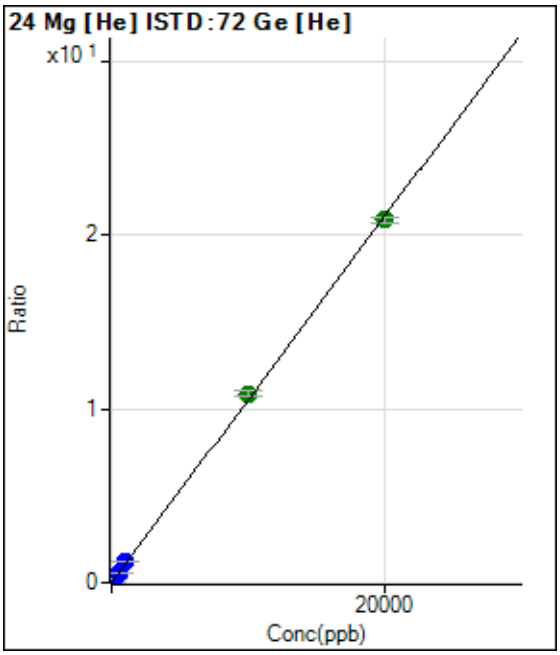


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62640.73	0.1747	P	3.3
2	☐	200.000	211.785	205607.71	0.5547	P	2.1
3	☐	500.000	531.026	423842.41	1.1274	P	0.4
4	☐	1000.000	1069.125	784468.19	2.0928	M	3.4
5	☐	10000.000	10199.667	6914750.11	18.4735	A	1.8
6	☐	20000.000	19895.817	13382603.13	35.8690	A	2.5

y = 0.0018 * x + 0.1747
R = 0.9999
DL = 9.715
BEC = 97.4

Weight: <None>
Min Conc: <None>

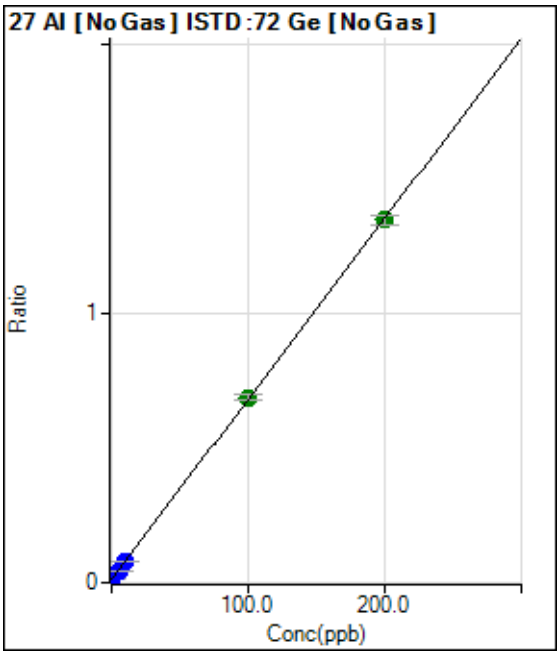
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	510.02	0.0014	P	21.5
2	☐	200.000	218.747	85887.40	0.2317	P	1.5
3	☐	500.000	545.018	216232.08	0.5752	P	0.6
4	☐	1000.000	1113.261	439824.70	1.1734	P	0.9
5	☐	10000.000	10341.256	4074668.90	10.8880	A	2.3
6	☐	20000.000	19822.396	7786065.09	20.8692	A	1.5

y = 0.0011 * x + 0.0014
R = 0.9998
DL = 0.8715
BEC = 1.352

Weight: <None>
Min Conc: <None>

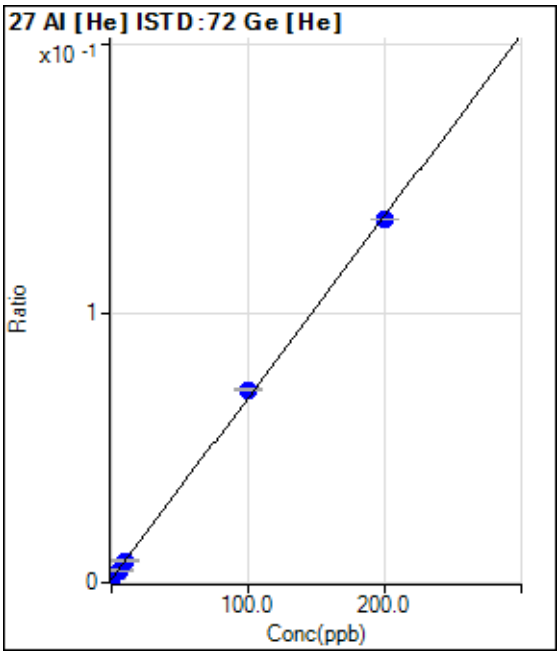


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19170.11	0.0115	P	0.2
2	☐	2.000	2.350	47479.05	0.0272	P	2.4
3	☐	5.000	4.965	77147.18	0.0447	P	1.2
4	☐	10.000	9.966	137249.31	0.0782	P	1.3
5	☐	100.000	101.083	1175289.64	0.6882	A	3.6
6	☐	200.000	199.457	2211428.30	1.3468	A	2.5

y = 0.0067 * x + 0.0115
R = 1.0000
DL = 0.01098
BEC = 1.717

Weight: <None>
Min Conc: <None>

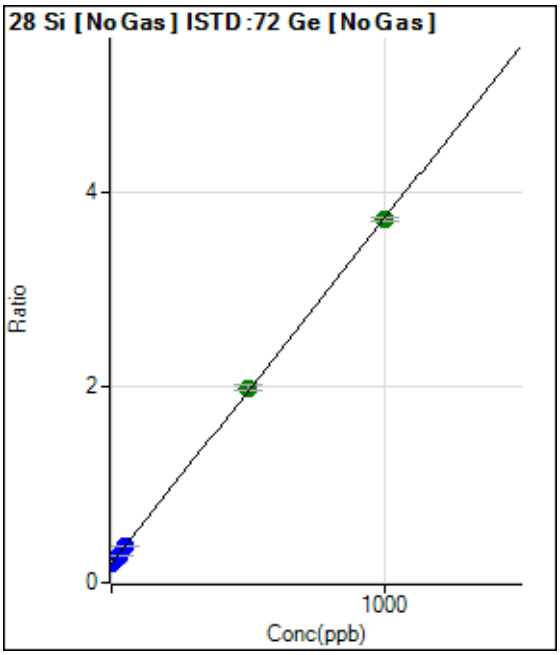
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	463.35	0.0013	P	14.8
2	☐	2.000	2.414	1083.41	0.0029	P	10.0
3	☐	5.000	4.901	1730.14	0.0046	P	5.5
4	☐	10.000	9.897	2990.37	0.0080	P	6.4
5	☐	100.000	104.231	26836.17	0.0717	P	1.0
6	☐	200.000	197.888	50354.69	0.1350	P	0.1

y = 6.7554E-004 * x + 0.0013
R = 0.9997
DL = 0.8498
BEC = 1.913

Weight: <None>
Min Conc: <None>

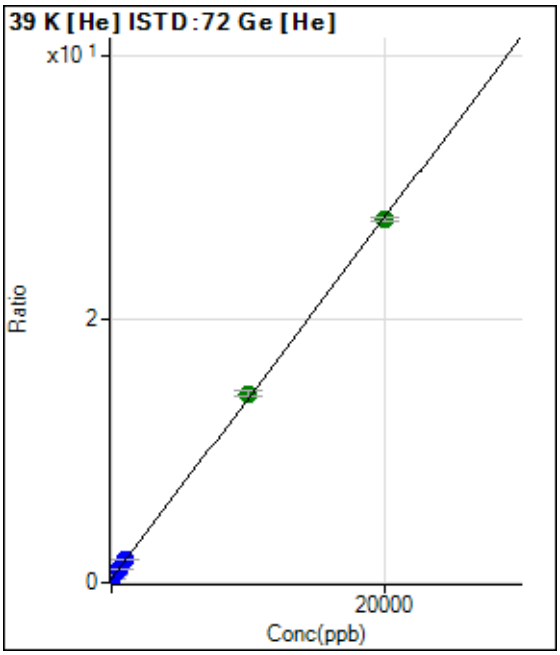


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	326644.79	0.1959	P	1.3
2	☐	10.000	7.982	390511.95	0.2241	P	3.8
3	☐	25.000	24.367	486221.21	0.2820	P	0.8
4	☐	50.000	48.430	643917.15	0.3669	P	1.0
5	☐	500.000	508.999	3404939.01	1.9937	A	2.8
6	☐	1000.000	995.615	6095638.66	3.7124	A	1.1

y = 0.0035 * x + 0.1959
R = 0.9999
DL = 2.097
BEC = 55.46

Weight: <None>
Min Conc: <None>

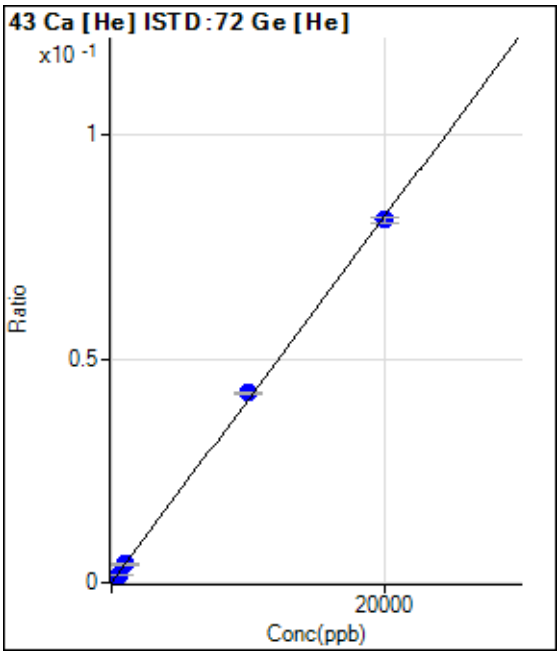
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96314.18	0.2687	P	1.6
2	☐	200.000	201.123	201929.58	0.5448	P	0.8
3	☐	500.000	525.169	372026.86	0.9896	P	0.8
4	☐	1000.000	1072.203	652407.31	1.7406	P	1.8
5	☐	10000.000	10244.305	5363255.13	14.3320	A	2.9
6	☐	20000.000	19873.597	10278372.14	27.5510	A	1.0

y = 0.0014 * x + 0.2687
R = 0.9999
DL = 9.671
BEC = 195.7

Weight: <None>
Min Conc: <None>

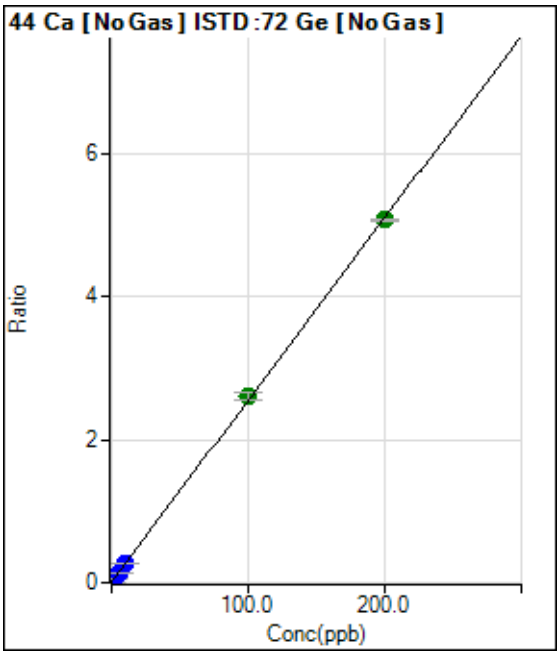


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	99.9
2	☐	200.000	199.761	313.34	0.0008	P	10.5
3	☐	500.000	448.143	700.03	0.0019	P	6.3
4	☐	1000.000	1023.184	1580.12	0.0042	P	9.5
5	☐	10000.000	10359.919	15879.41	0.0424	P	1.3
6	☐	20000.000	19820.180	30270.28	0.0811	P	1.8

y = 4.0924E-006 * x + 2.7929E-005
R = 0.9998
DL = 20.45
BEC = 6.825

Weight: <None>
Min Conc: <None>

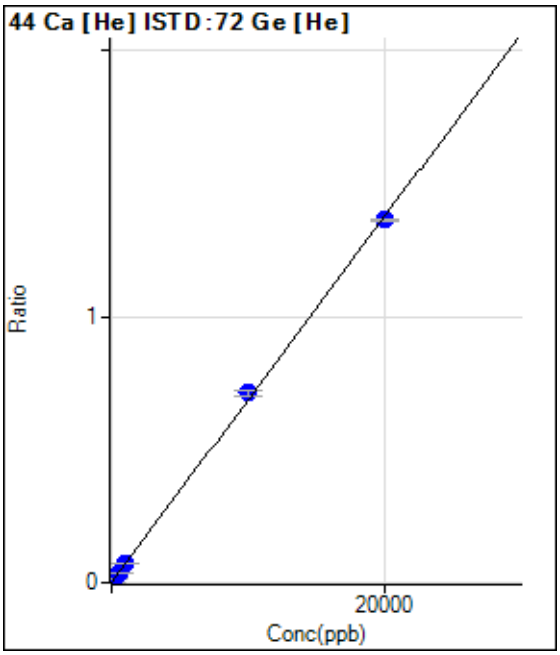
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11571.68	0.0069	P	2.0
2	☐	2.000	1.989	100276.93	0.0575	P	3.0
3	☐	5.000	5.202	240112.30	0.1392	P	2.5
4	☐	10.000	10.354	474280.11	0.2703	P	2.5
5	☐	100.000	101.840	4434528.89	2.5973	A	4.3
6	☐	200.000	199.057	8324522.59	5.0700	A	0.7

y = 0.0254 * x + 0.0069
R = 0.9999
DL = 0.01627
BEC = 0.2728

Weight: <None>
Min Conc: <None>

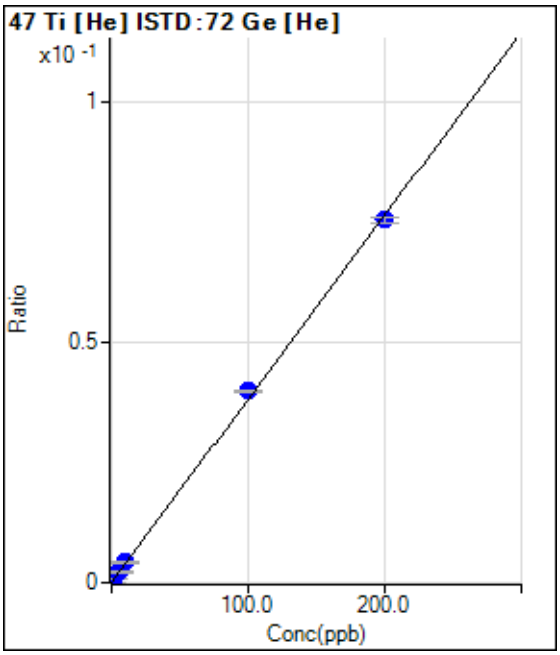


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	260.01	0.0007	P	7.5
2	☐	200.000	200.515	5377.81	0.0145	P	2.3
3	☐	500.000	523.694	13803.79	0.0367	P	5.6
4	☐	1000.000	1036.353	26973.49	0.0720	P	3.0
5	☐	10000.000	10346.480	266419.47	0.7119	P	2.5
6	☐	20000.000	19824.345	508639.39	1.3634	P	0.6

y = 6.8737E-005 * x + 7.2520E-004
R = 0.9998
DL = 2.388
BEC = 10.55

Weight: <None>
Min Conc: <None>

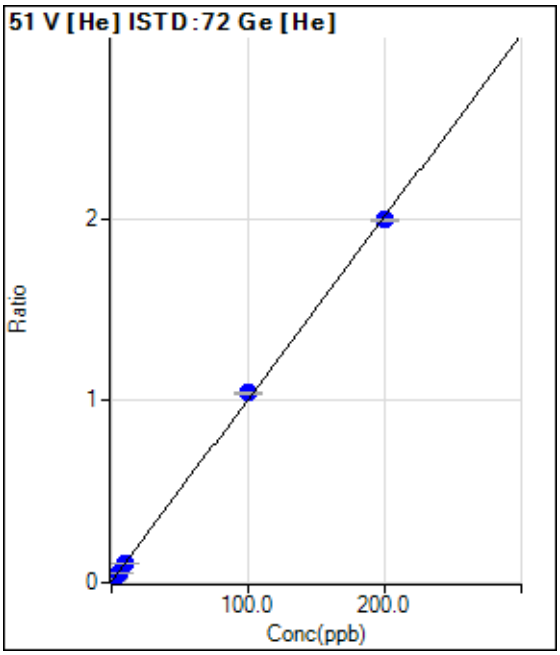
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	86.6
2	☐	2.000	1.980	293.34	0.0008	P	13.0
3	☐	5.000	5.743	836.71	0.0022	P	27.2
4	☐	10.000	11.183	1610.12	0.0043	P	11.0
5	☐	100.000	104.474	14904.94	0.0398	P	0.9
6	☐	200.000	197.685	28102.36	0.0753	P	1.2

y = 3.8084E-004 * x + 3.7189E-005
R = 0.9996
DL = 0.2537
BEC = 0.09765

Weight: <None>
Min Conc: <None>

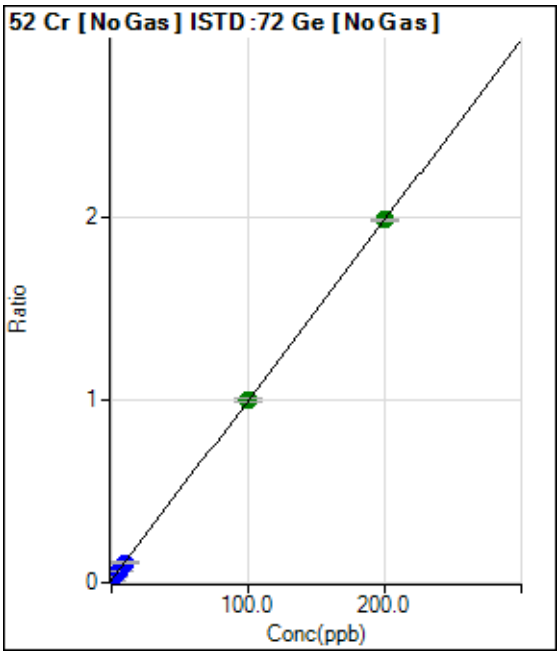


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2109.06	0.0059	P	4.8
2	☐	2.000	1.989	9578.95	0.0258	P	2.1
3	☐	5.000	5.087	21402.29	0.0569	P	1.7
4	☐	10.000	10.077	40104.06	0.1070	P	2.6
5	☐	100.000	103.443	390659.47	1.0438	P	1.4
6	☐	200.000	198.272	744418.25	1.9954	P	0.5

y = 0.0100 * x + 0.0059
R = 0.9998
DL = 0.08417
BEC = 0.5864

Weight: <None>
Min Conc: <None>

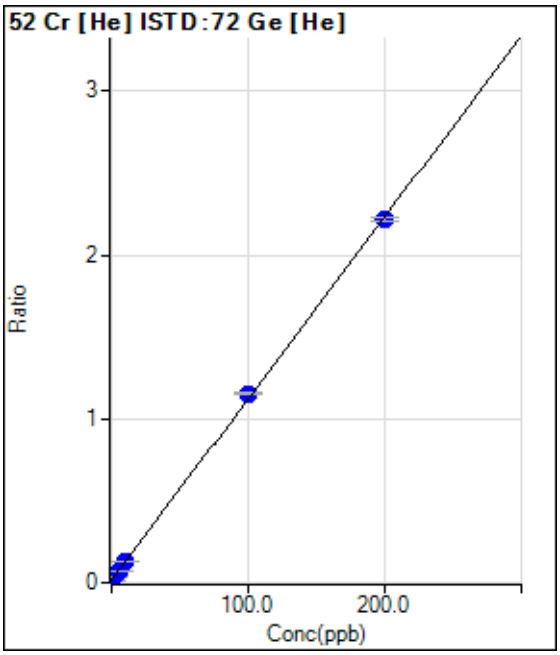
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21861.04	0.0131	P	2.5
2	☐	2.000	1.893	55315.49	0.0317	P	4.6
3	☐	5.000	4.977	107070.18	0.0621	P	1.4
4	☐	10.000	9.798	192217.21	0.1095	P	1.5
5	☐	100.000	99.795	1700019.14	0.9953	A	1.9
6	☐	200.000	200.114	3255295.79	1.9826	A	0.3

y = 0.0098 * x + 0.0131
R = 1.0000
DL = 0.0996
BEC = 1.332

Weight: <None>
Min Conc: <None>

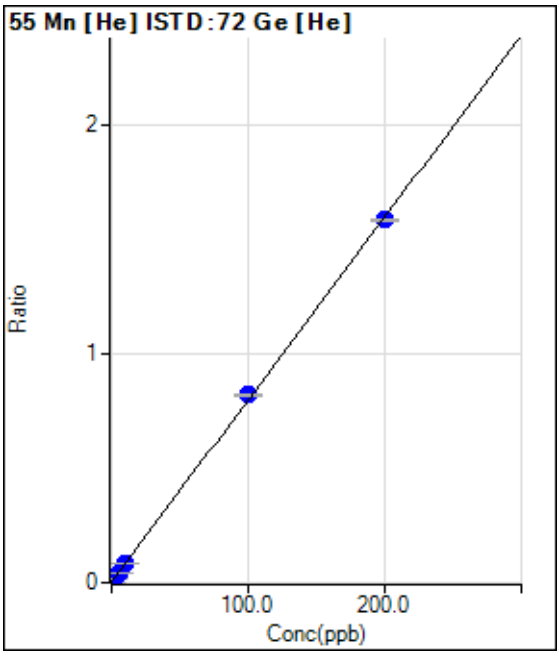


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5481.20	0.0153	P	6.3
2	☐	2.000	1.906	13490.20	0.0364	P	1.9
3	☐	5.000	5.054	26779.90	0.0712	P	0.5
4	☐	10.000	10.202	48061.24	0.1282	P	1.3
5	☐	100.000	102.826	431738.89	1.1536	P	1.6
6	☐	200.000	198.576	825818.89	2.2136	P	1.2

y = 0.0111 * x + 0.0153
R = 0.9999
DL = 0.2596
BEC = 1.381

Weight: <None>
Min Conc: <None>

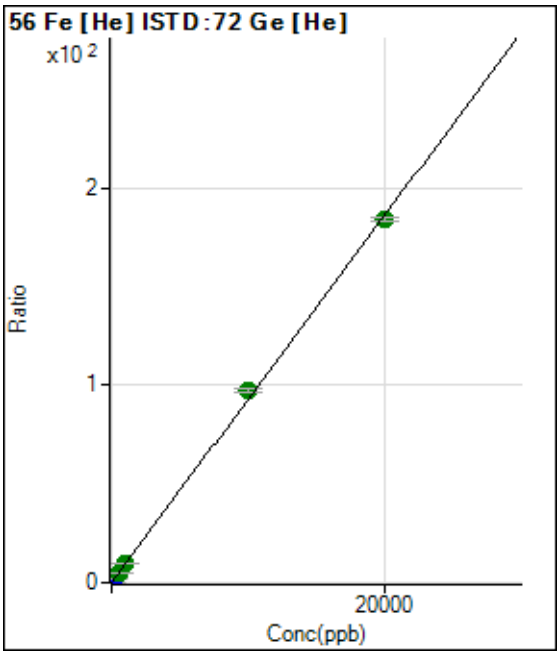
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	906.71	0.0025	P	1.6
2	☐	2.000	1.944	6668.42	0.0180	P	1.9
3	☐	5.000	4.960	15779.33	0.0420	P	1.8
4	☐	10.000	10.258	31526.64	0.0841	P	0.2
5	☐	100.000	102.603	306337.68	0.8185	P	0.6
6	☐	200.000	198.687	590427.19	1.5826	P	0.8

y = 0.0080 * x + 0.0025
R = 0.9999
DL = 0.01515
BEC = 0.318

Weight: <None>
Min Conc: <None>

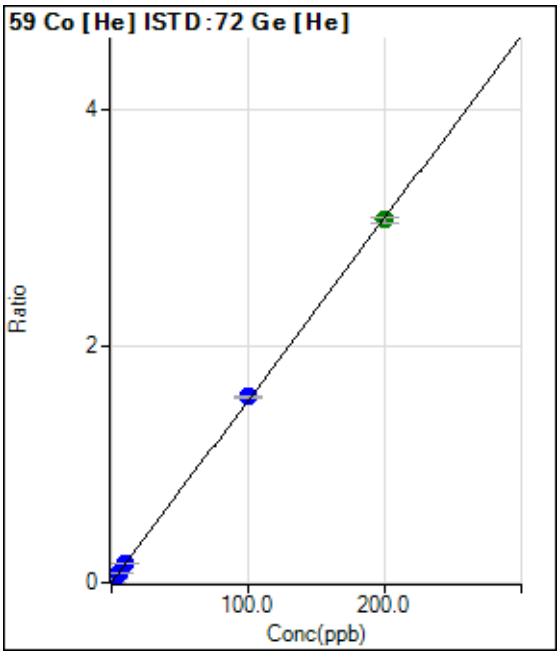


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15252.19	0.0425	P	4.7
2	☐	200.000	206.621	727247.18	1.9620	P	1.6
3	☐	500.000	526.970	1856376.95	4.9379	A	0.7
4	☐	1000.000	1040.444	3638730.47	9.7079	A	1.8
5	☐	10000.000	10456.108	36370238.62	97.1760	A	2.2
6	☐	20000.000	19769.183	68529263.98	183.6911	A	1.1

y = 0.0093 * x + 0.0425
R = 0.9996
DL = 0.6482
BEC = 4.58

Weight: <None>
Min Conc: <None>

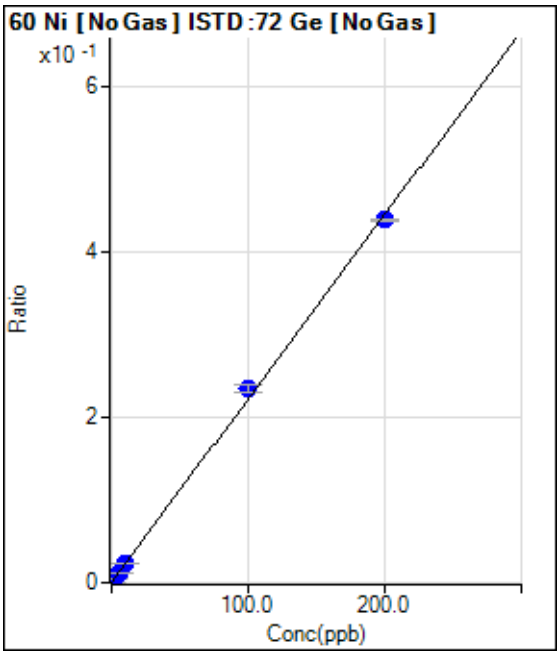
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	126.67	0.0004	P	33.0
2	☐	2.000	1.974	11388.28	0.0307	P	5.3
3	☐	5.000	5.152	29936.62	0.0796	P	0.7
4	☐	10.000	10.276	59399.93	0.1585	P	1.3
5	☐	100.000	101.864	586739.21	1.5678	P	1.4
6	☐	200.000	199.051	1142810.87	3.0632	A	1.7

y = 0.0154 * x + 3.5338E-004
R = 0.9999
DL = 0.02272
BEC = 0.02297

Weight: <None>
Min Conc: <None>

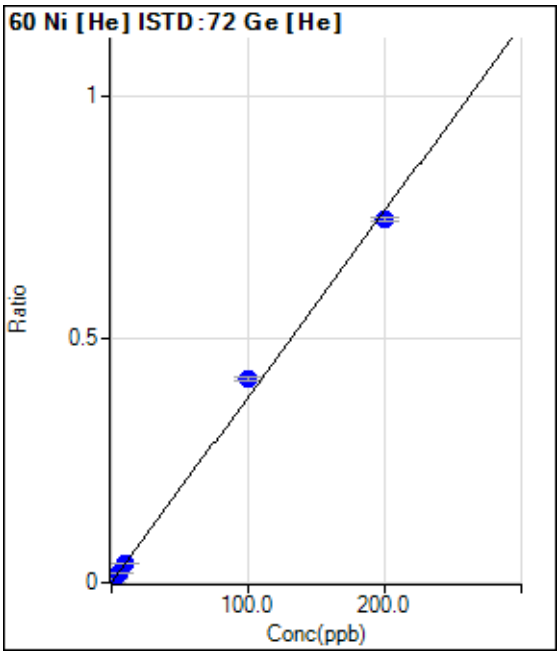


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	403.35	0.0002	P	3.9
2	☐	2.000	1.949	7975.82	0.0046	P	6.3
3	☐	5.000	4.978	19524.31	0.0113	P	1.4
4	☐	10.000	9.925	39183.38	0.0223	P	1.6
5	☐	100.000	105.361	400823.89	0.2347	P	3.5
6	☐	200.000	197.324	721461.06	0.4394	P	0.2

y = 0.0022 * x + 2.4188E-004
R = 0.9995
DL = 0.01277
BEC = 0.1087

Weight: <None>
Min Conc: <None>

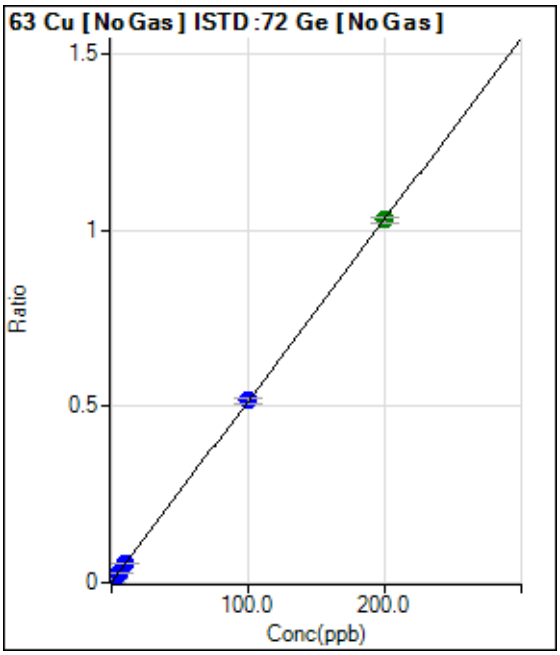
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	123.33	0.0003	P	12.0
2	☐	2.000	1.953	2890.37	0.0078	P	3.9
3	☐	5.000	4.848	7085.30	0.0188	P	2.4
4	☐	10.000	10.299	14865.05	0.0397	P	2.3
5	☐	100.000	109.550	156633.23	0.4185	P	1.4
6	☐	200.000	195.215	278136.34	0.7455	P	1.1

y = 0.0038 * x + 3.4392E-004
R = 0.9984
DL = 0.0325
BEC = 0.0901

Weight: <None>
Min Conc: <None>

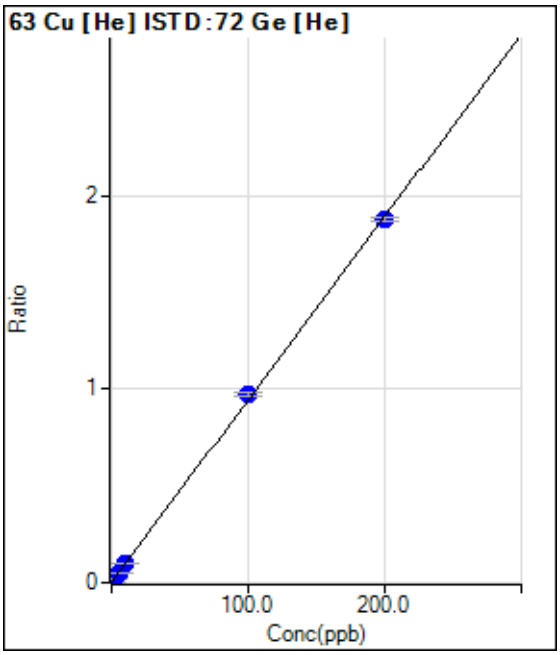


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1343.42	0.0008	P	8.5
2	☐	2.000	1.873	18235.80	0.0105	P	1.6
3	☐	5.000	5.014	45934.59	0.0266	P	3.6
4	☐	10.000	10.031	92104.50	0.0525	P	0.6
5	☐	100.000	100.339	884155.97	0.5178	P	3.2
6	☐	200.000	199.830	1691695.49	1.0303	A	1.5

y = 0.0052 * x + 8.0574E-004
R = 1.0000
DL = 0.03999
BEC = 0.1564

Weight: <None>
Min Conc: <None>

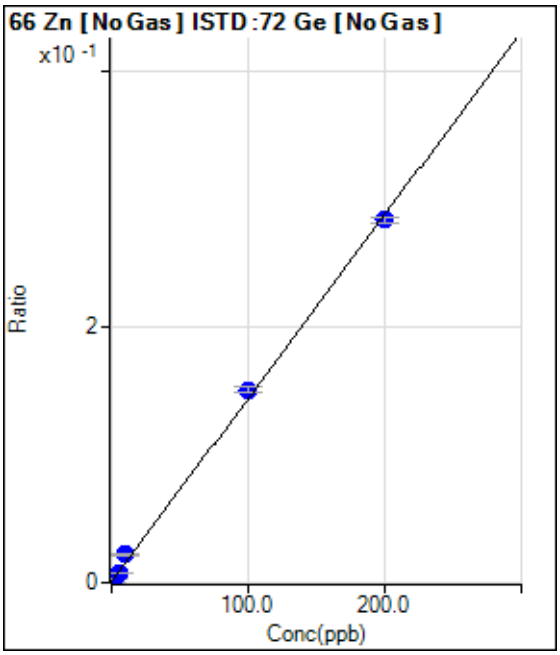
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	496.68	0.0014	P	4.1
2	☐	2.000	2.062	7739.01	0.0209	P	0.6
3	☐	5.000	4.975	18195.82	0.0484	P	0.5
4	☐	10.000	10.144	36455.78	0.0973	P	0.9
5	☐	100.000	103.126	365279.84	0.9760	P	1.4
6	☐	200.000	198.430	700174.81	1.8768	P	1.0

y = 0.0095 * x + 0.0014
R = 0.9998
DL = 0.01819
BEC = 0.1466

Weight: <None>
Min Conc: <None>

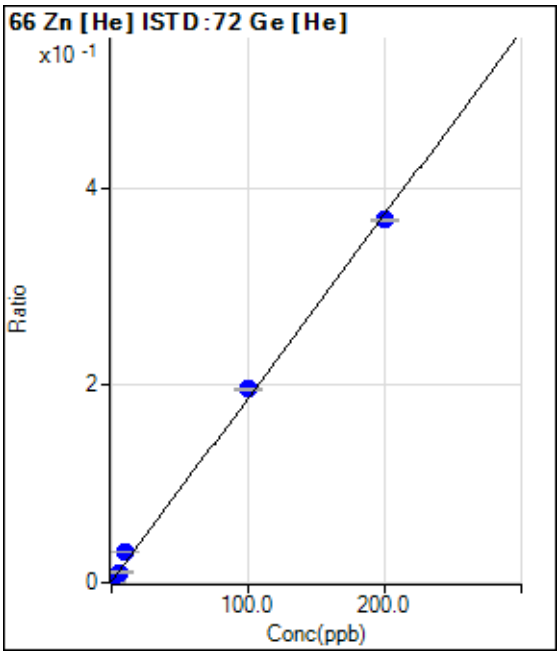


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1196.74	0.0007	P	2.4
2	☐	2.000	1.949	6114.82	0.0035	P	7.6
3	☐	5.000	4.821	13153.23	0.0076	P	5.4
4	☐	10.000	14.974	38922.75	0.0222	P	3.7
5	☐	100.000	104.769	257704.48	0.1509	P	2.7
6	☐	200.000	197.372	465712.99	0.2836	P	1.5

y = 0.0014 * x + 7.1748E-004
R = 0.9993
DL = 0.03604
BEC = 0.5005

Weight: <None>
Min Conc: <None>

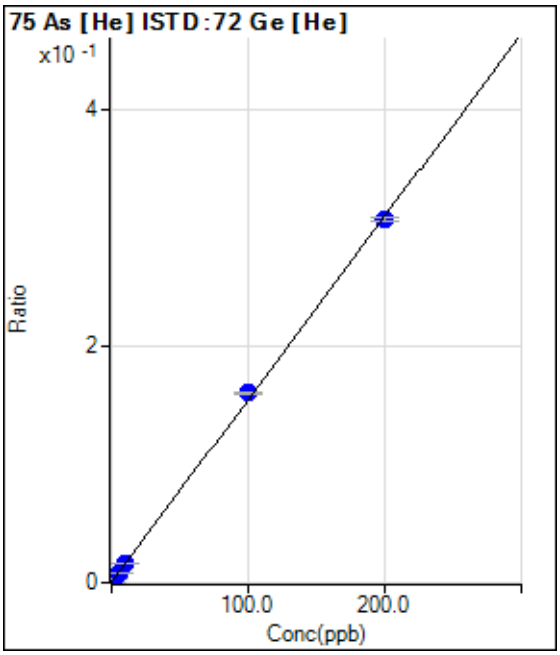
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.35	0.0011	P	18.5
2	☐	2.000	2.153	1880.18	0.0051	P	1.1
3	☐	5.000	5.030	3917.32	0.0104	P	6.8
4	☐	10.000	16.212	11695.22	0.0312	P	3.1
5	☐	100.000	105.116	73528.80	0.1965	P	0.7
6	☐	200.000	197.129	137098.18	0.3675	P	0.8

y = 0.0019 * x + 0.0011
R = 0.9992
DL = 0.3194
BEC = 0.5754

Weight: <None>
Min Conc: <None>

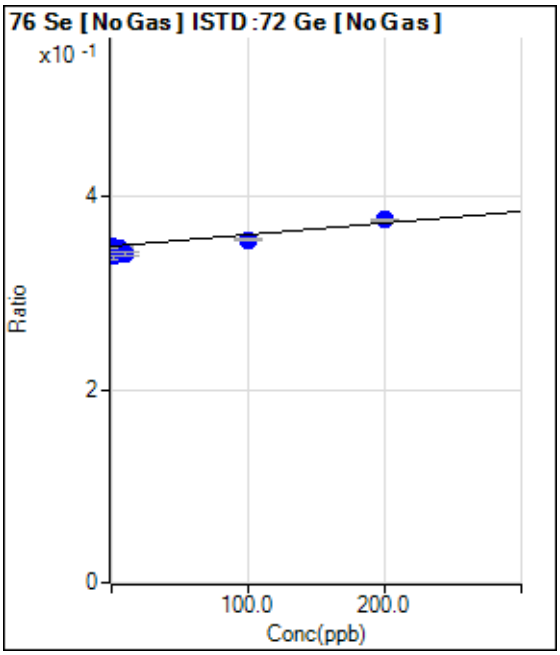


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	112.22	0.0003	P	19.4
2	☐	2.000	2.074	1302.29	0.0035	P	4.3
3	☐	5.000	4.921	2972.57	0.0079	P	2.3
4	☐	10.000	10.173	6001.36	0.0160	P	2.5
5	☐	100.000	103.458	59863.08	0.1600	P	1.2
6	☐	200.000	198.264	114249.59	0.3062	P	0.9

y = 0.0015 * x + 3.1314E-004
R = 0.9998
DL = 0.1181
BEC = 0.2029

Weight: <None>
Min Conc: <None>

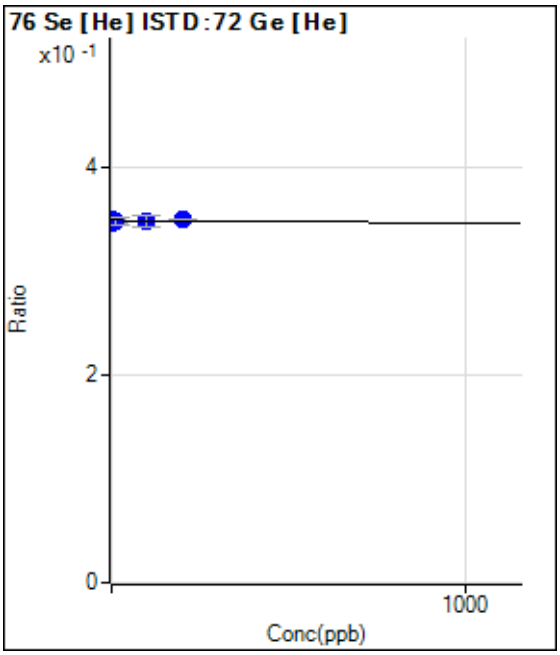
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	581821.74	0.3489	P	1.3
2	☐	2.000	-84.543	590496.02	0.3387	P	2.6
3	☐	5.000	-12.039	599183.99	0.3474	P	0.3
4	☐	10.000	-64.426	598686.72	0.3411	P	1.2
5	☐	100.000	57.582	607827.87	0.3558	P	0.9
6	☐	200.000	226.222	617572.39	0.3761	P	0.7

y = 1.2040E-004 * x + 0.3489
R = 0.9485
DL = 110.7
BEC = 2898

Weight: <None>
Min Conc: <None>

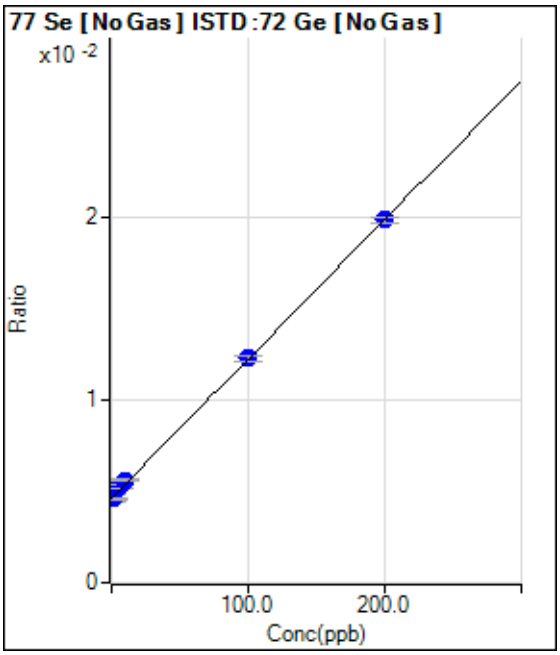


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125160.00	0.3491	P	0.9
2	☐	2.000	725.317	128691.07	0.3472	P	1.3
3	☐	5.000	694.287	130551.42	0.3473	P	0.5
4	☐	10.000	456.354	130403.59	0.3479	P	2.4
5	☐	100.000	571.689	130077.03	0.3476	P	3.3
6	☐	200.000	-82.627	130332.07	0.3493	P	0.5

y = -2.6738E-006 * x + 0.3491
R = 0.5210
DL = -3603
BEC = -1.306E+05

Weight: <None>
Min Conc: <None>

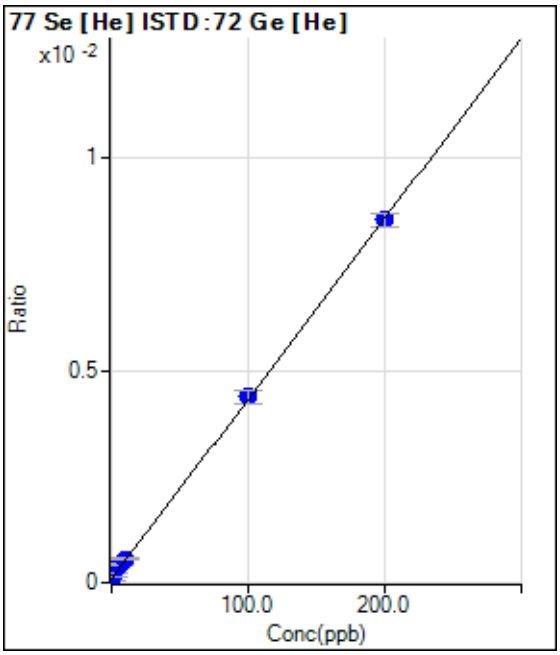
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7719.02	0.0046	P	6.9
2	☐	2.000	-0.094	8052.55	0.0046	P	2.0
3	☐	5.000	8.182	9049.84	0.0052	P	5.0
4	☐	10.000	12.691	9813.72	0.0056	P	1.7
5	☐	100.000	100.121	20926.56	0.0123	P	2.0
6	☐	200.000	199.747	32573.01	0.0198	P	1.3

y = 7.6158E-005 * x + 0.0046
R = 0.9997
DL = 12.65
BEC = 60.74

Weight: <None>
Min Conc: <None>

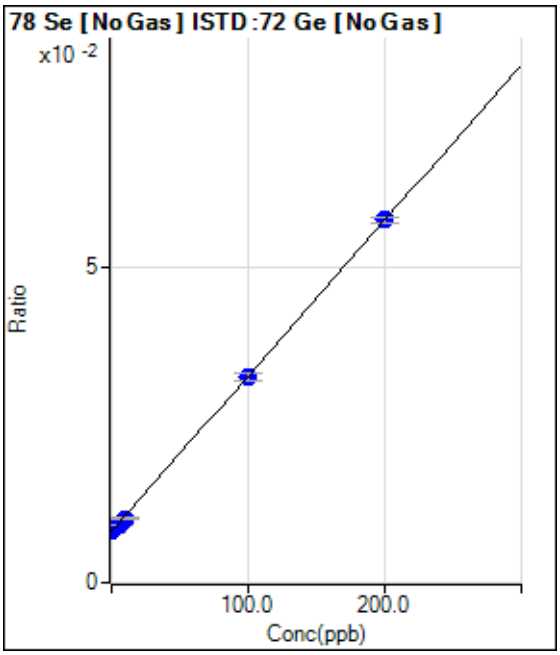


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0001	P	88.2
2	☐	2.000	2.057	63.33	0.0002	P	51.0
3	☐	5.000	8.050	160.00	0.0004	P	6.1
4	☐	10.000	11.012	206.67	0.0006	P	7.6
5	☐	100.000	101.135	1640.13	0.0044	P	7.9
6	☐	200.000	199.305	3190.45	0.0086	P	3.7

y = 4.2489E-005 * x + 8.3552E-005
R = 0.9999
DL = 5.206
BEC = 1.966

Weight: <None>
Min Conc: <None>

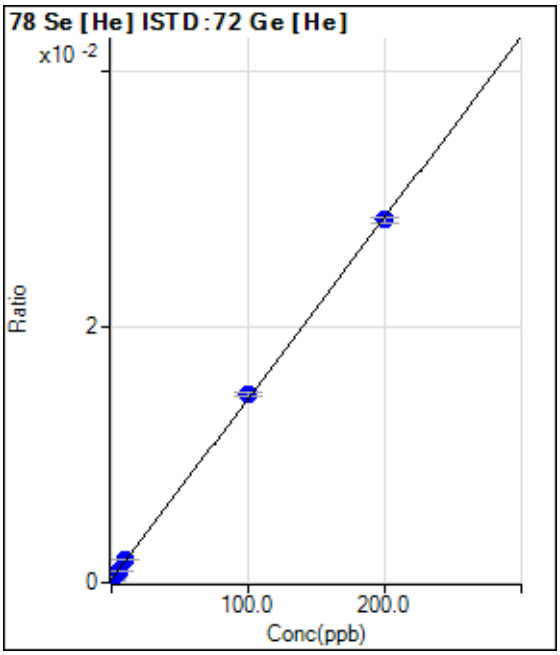
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13583.73	0.0081	P	1.5
2	☐	2.000	1.661	14918.50	0.0086	P	1.8
3	☐	5.000	3.641	15595.93	0.0090	P	0.7
4	☐	10.000	8.226	17855.40	0.0102	P	3.7
5	☐	100.000	99.710	55969.77	0.0328	P	3.7
6	☐	200.000	200.271	94610.97	0.0576	P	1.9

y = 2.4706E-004 * x + 0.0081
R = 1.0000
DL = 1.527
BEC = 32.96

Weight: <None>
Min Conc: <None>

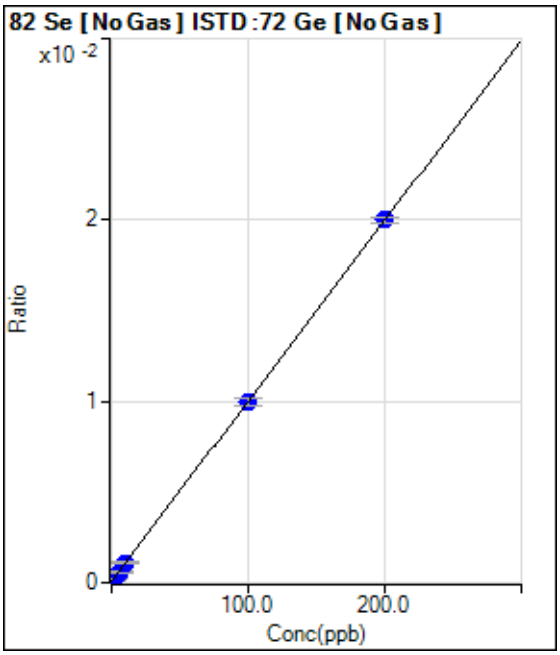


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	84.00	0.0002	P	18.9
2	☐	2.000	2.013	192.67	0.0005	P	17.0
3	☐	5.000	4.787	343.34	0.0009	P	6.0
4	☐	10.000	10.877	666.02	0.0018	P	2.4
5	☐	100.000	102.390	5521.82	0.0148	P	2.6
6	☐	200.000	198.766	10603.52	0.0284	P	1.8

y = 1.4182E-004 * x + 2.3439E-004
R = 0.9999
DL = 0.938
BEC = 1.653

Weight: <None>
Min Conc: <None>

Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	142.23	0.0001	P	32.3
2	☐	2.000	1.751	451.89	0.0003	P	13.4
3	☐	5.000	4.780	965.56	0.0006	P	12.5
4	☐	10.000	9.894	1875.33	0.0011	P	10.1
5	☐	100.000	99.117	16962.96	0.0099	P	4.1
6	☐	200.000	200.455	32839.55	0.0200	P	1.7

y = 9.9355E-005 * x + 8.5239E-005

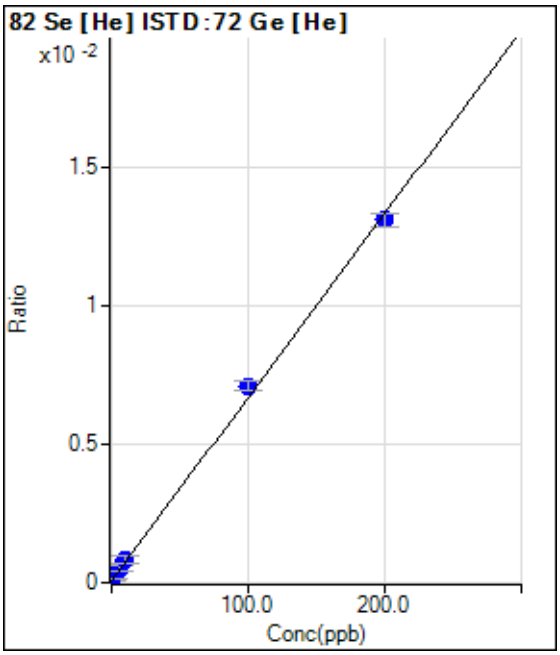
R = 1.0000

DL = 0.8303

BEC = 0.8579

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0001	P	24.8
2	☐	2.000	2.685	90.00	0.0002	P	57.7
3	☐	5.000	6.652	190.01	0.0005	P	39.6
4	☐	10.000	11.380	306.68	0.0008	P	29.4
5	☐	100.000	106.193	2653.64	0.0071	P	4.8
6	☐	200.000	196.786	4880.97	0.0131	P	3.9

y = 6.6150E-005 * x + 6.5087E-005

R = 0.9993

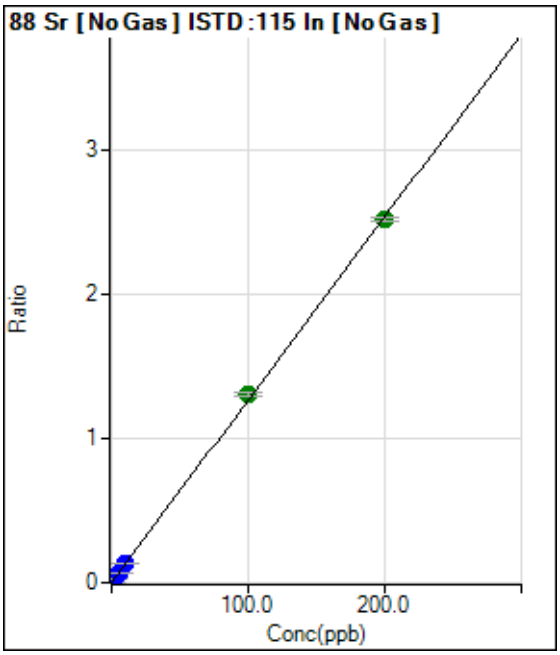
DL = 0.7309

BEC = 0.9839

Weight: <None>

Min Conc: <None>

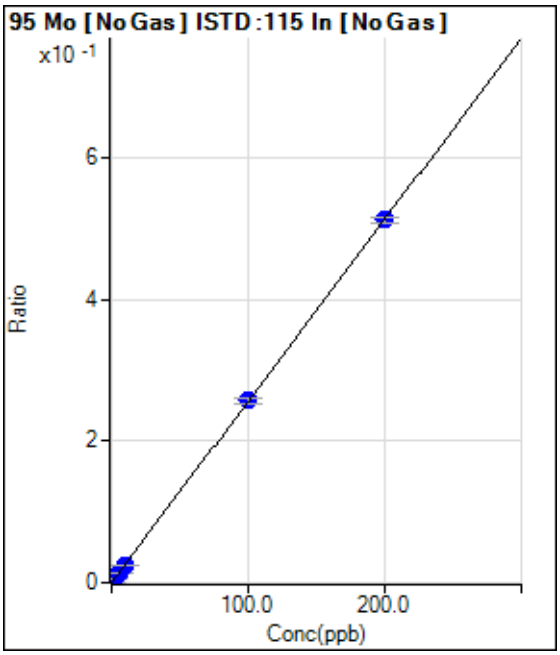
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	690.03	0.0004	P	8.7
2	☐	2.000	2.011	48655.59	0.0259	P	2.7
3	☐	5.000	5.077	125400.89	0.0648	P	1.9
4	☐	10.000	10.092	251485.54	0.1284	P	2.2
5	☐	100.000	102.889	2530650.74	1.3052	A	1.5
6	☐	200.000	198.549	4760331.07	2.5183	A	1.0

y = 0.0127 * x + 3.7281E-004
R = 0.9999
DL = 0.007644
BEC = 0.0294

Weight: <None>
Min Conc: <None>

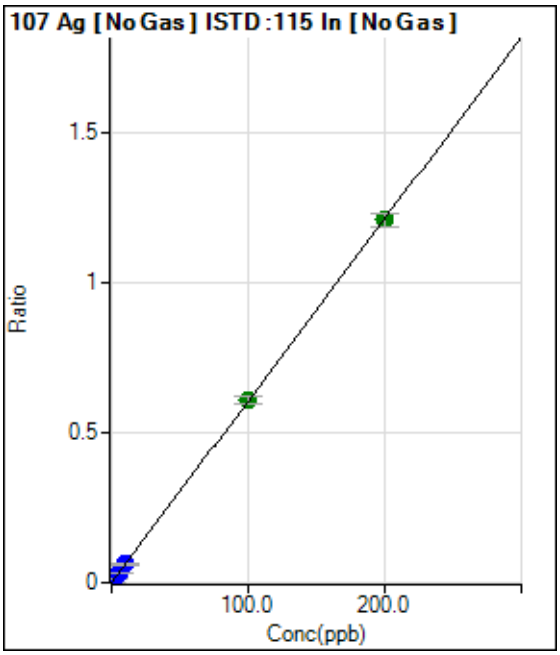


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	156.67	0.0001	P	11.9
2	☐	2.000	1.918	9390.15	0.0050	P	5.5
3	☐	5.000	4.828	24092.22	0.0124	P	1.7
4	☐	10.000	9.707	48843.04	0.0249	P	2.0
5	☐	100.000	100.202	497328.38	0.2566	P	2.5
6	☐	200.000	199.919	967381.18	0.5118	P	1.7

y = 0.0026 * x + 8.4501E-005
R = 1.0000
DL = 0.01176
BEC = 0.03301

Weight: <None>
Min Conc: <None>

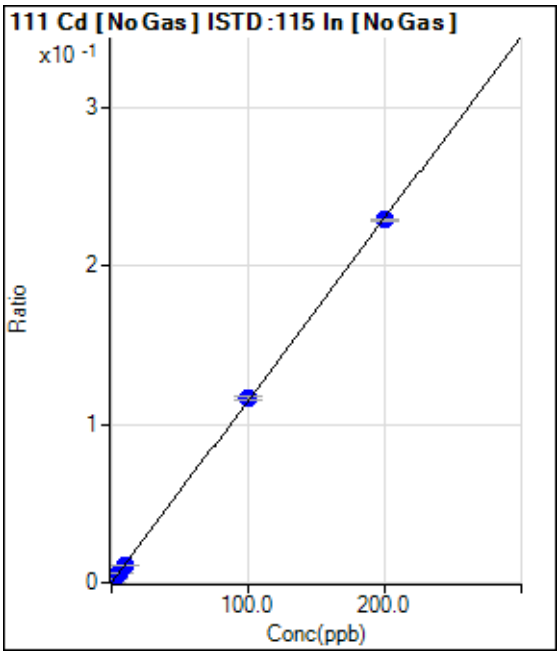
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0001	P	26.7
2	☐	2.000	1.968	22509.51	0.0120	P	4.9
3	☐	5.000	4.946	58094.49	0.0300	P	3.2
4	☐	10.000	10.059	119439.82	0.0610	P	1.4
5	☐	100.000	100.801	1182885.16	0.6103	A	4.3
6	☐	200.000	199.598	2284197.36	1.2084	A	3.4

y = 0.0061 * x + 6.1353E-005
R = 1.0000
DL = 0.008105
BEC = 0.01013

Weight: <None>
Min Conc: <None>

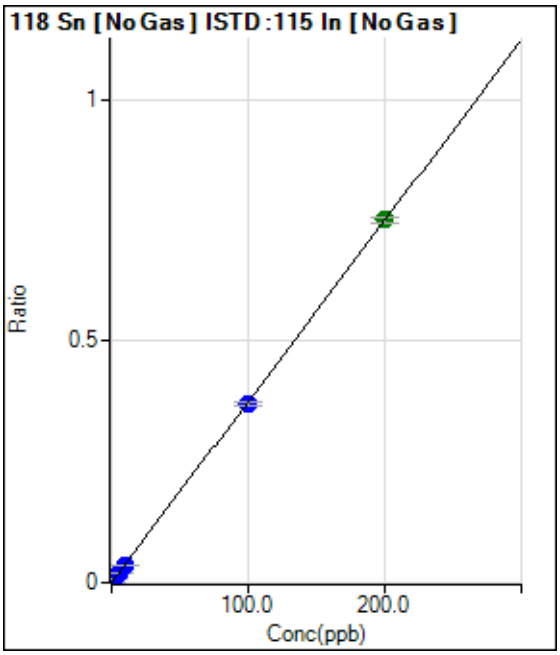


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9.27	0.0000	P	293.8
2	☐	2.000	2.006	4348.90	0.0023	P	6.3
3	☐	5.000	5.109	11393.64	0.0059	P	2.1
4	☐	10.000	9.821	22148.01	0.0113	P	2.9
5	☐	100.000	101.667	226789.53	0.1170	P	1.8
6	☐	200.000	199.172	433193.23	0.2292	P	0.7

y = 0.0012 * x + 5.0194E-006
R = 0.9999
DL = 0.03845
BEC = 0.004362

Weight: <None>
Min Conc: <None>

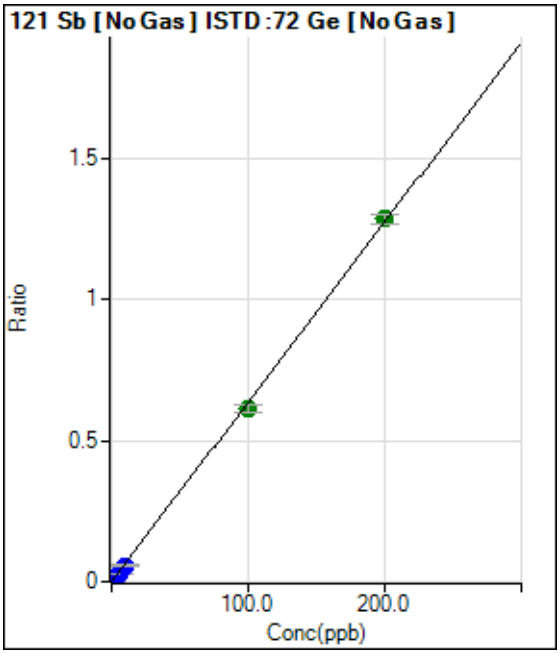
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	766.83	0.0004	P	42.4
2	☐	2.000	1.921	14284.64	0.0076	P	4.4
3	☐	5.000	4.745	35167.40	0.0182	P	1.2
4	☐	10.000	9.572	70955.01	0.0362	P	1.2
5	☐	100.000	99.057	719054.78	0.3709	P	1.6
6	☐	200.000	200.500	1418236.02	0.7503	A	1.6

y = 0.0037 * x + 4.1512E-004
R = 1.0000
DL = 0.1413
BEC = 0.111

Weight: <None>
Min Conc: <None>

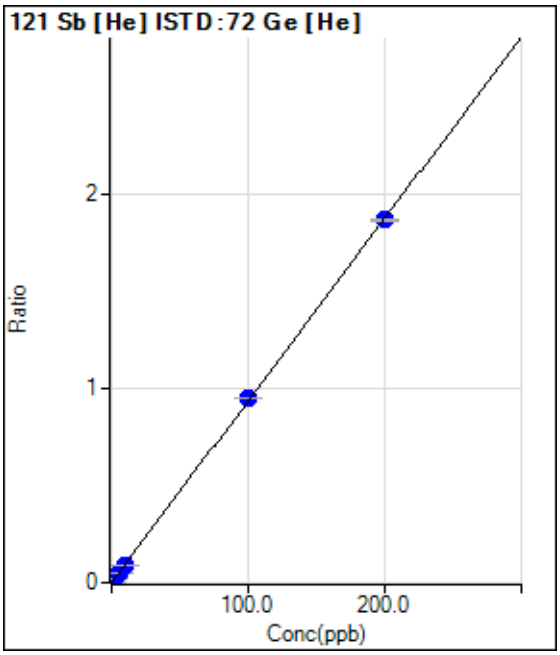


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	25.3
2	☐	2.000	1.723	19307.92	0.0111	P	3.9
3	☐	5.000	4.604	50731.95	0.0294	P	2.4
4	☐	10.000	9.023	100994.21	0.0576	P	2.1
5	☐	100.000	96.162	1045628.63	0.6124	A	4.5
6	☐	200.000	201.981	2111726.95	1.2861	A	2.5

y = 0.0064 * x + 1.0569E-004
R = 0.9998
DL = 0.01259
BEC = 0.0166

Weight: <None>
Min Conc: <None>

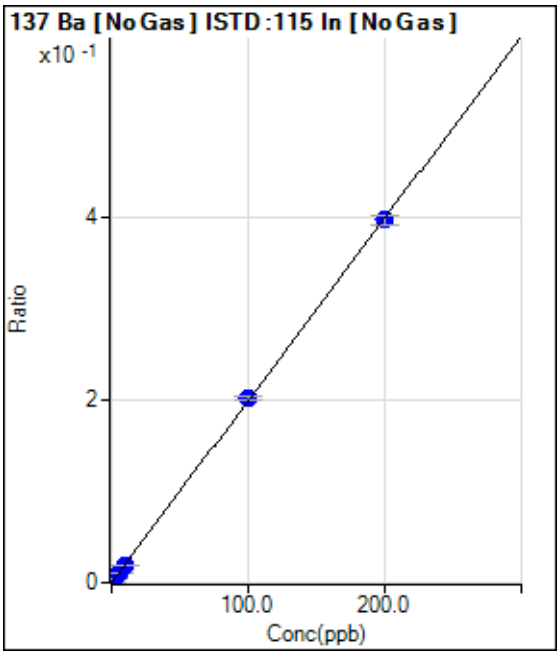
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0002	P	38.1
2	☐	2.000	1.806	6338.33	0.0171	P	7.1
3	☐	5.000	4.918	17391.79	0.0463	P	0.9
4	☐	10.000	9.615	33830.67	0.0903	P	2.3
5	☐	100.000	101.227	354999.07	0.9485	P	0.6
6	☐	200.000	199.410	697027.41	1.8683	P	0.6

y = 0.0094 * x + 1.8613E-004
R = 1.0000
DL = 0.02268
BEC = 0.01987

Weight: <None>
Min Conc: <None>

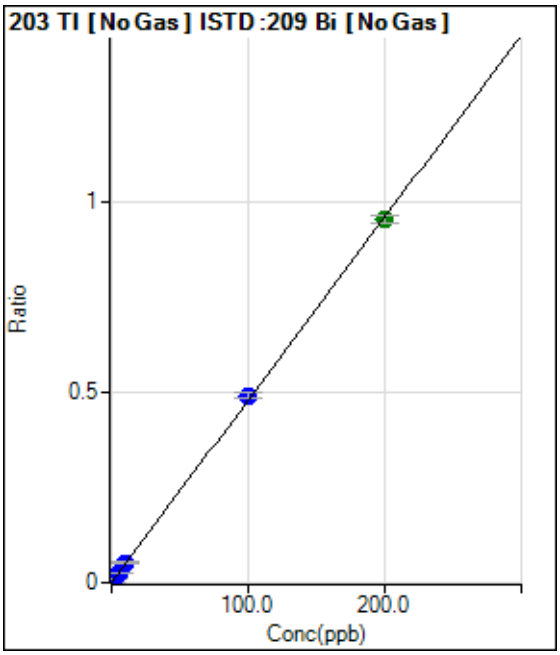


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.34	0.0001	P	29.0
2	☐	2.000	2.077	7949.25	0.0042	P	2.9
3	☐	5.000	4.932	19207.83	0.0099	P	3.8
4	☐	10.000	9.734	38186.85	0.0195	P	2.7
5	☐	100.000	101.454	392236.62	0.2023	P	2.1
6	☐	200.000	199.287	751084.21	0.3974	P	2.4

y = 0.0020 * x + 8.8185E-005
R = 1.0000
DL = 0.03854
BEC = 0.04424

Weight: <None>
Min Conc: <None>

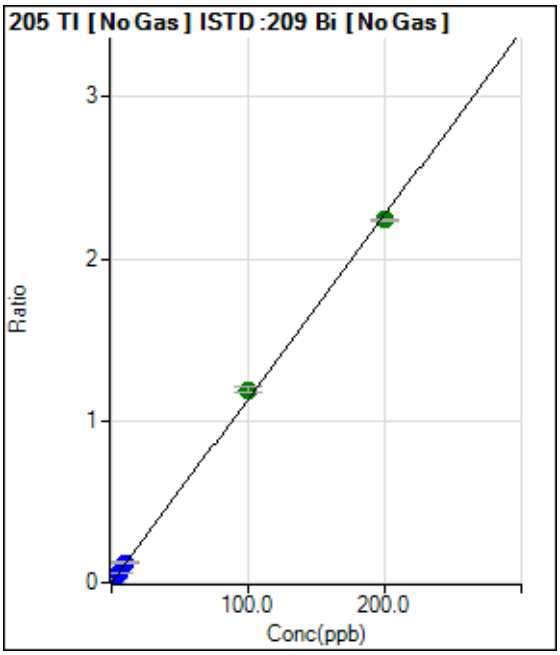
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	233.34	0.0002	P	31.2
2	☐	2.000	2.085	14705.60	0.0102	P	3.0
3	☐	5.000	5.296	37015.44	0.0256	P	2.4
4	☐	10.000	10.875	74968.70	0.0524	P	3.3
5	☐	100.000	102.460	707376.24	0.4919	P	2.5
6	☐	200.000	198.718	1389040.76	0.9538	A	2.0

y = 0.0048 * x + 1.6962E-004
R = 0.9999
DL = 0.03306
BEC = 0.03534

Weight: <None>
Min Conc: <None>

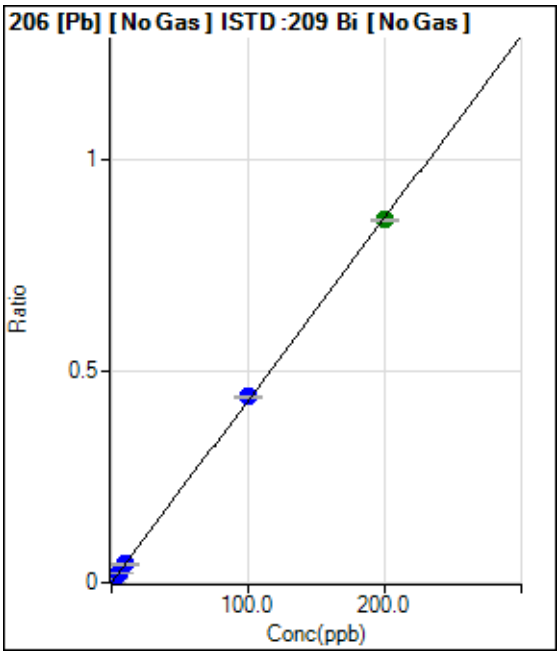


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	526.69	0.0004	P	9.2
2	☐	2.000	2.050	34150.50	0.0236	P	2.2
3	☐	5.000	5.359	88554.29	0.0612	P	0.7
4	☐	10.000	10.903	177748.15	0.1241	P	2.5
5	☐	100.000	105.044	1715295.91	1.1926	A	2.2
6	☐	200.000	197.424	3263153.81	2.2410	A	0.8

y = 0.0113 * x + 3.8360E-004
R = 0.9996
DL = 0.00934
BEC = 0.0338

Weight: <None>
Min Conc: <None>

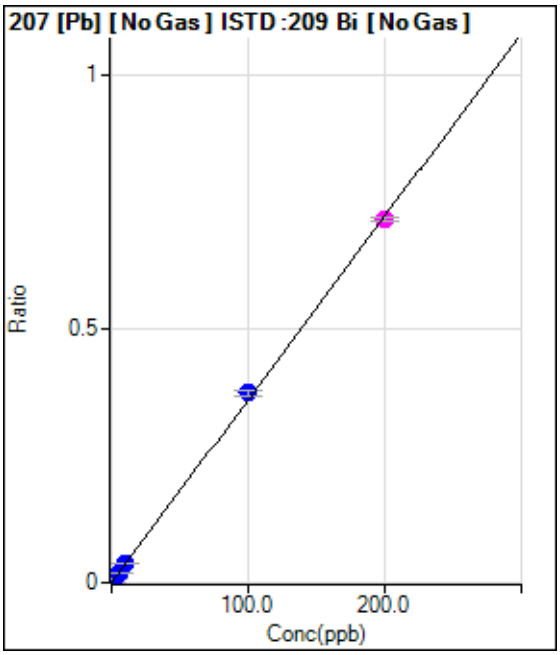
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0001	P	20.8
2	☐	2.000	1.936	12179.52	0.0084	P	3.2
3	☐	5.000	4.944	30968.94	0.0214	P	0.8
4	☐	10.000	10.034	62071.76	0.0434	P	4.3
5	☐	100.000	102.031	633036.49	0.4401	P	1.3
6	☐	200.000	198.985	1249676.86	0.8583	A	0.8

y = 0.0043 * x + 8.2594E-005
R = 0.9999
DL = 0.01193
BEC = 0.01915

Weight: <None>
Min Conc: <None>

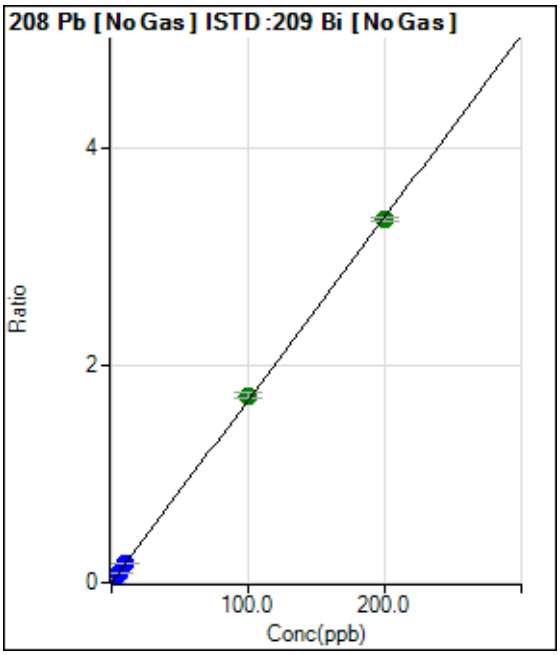


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	116.67	0.0001	P	13.9
2	☐	2.000	1.922	10140.99	0.0070	P	2.6
3	☐	5.000	4.929	25853.97	0.0179	P	2.9
4	☐	10.000	10.327	53495.29	0.0374	P	1.7
5	☐	100.000	103.511	537274.86	0.3736	P	2.4
6	☐	200.000	198.231	1041718.21	0.7154	M	1.1

y = 0.0036 * x + 8.5050E-005
R = 0.9998
DL = 0.009839
BEC = 0.02357

Weight: <None>
Min Conc: <None>

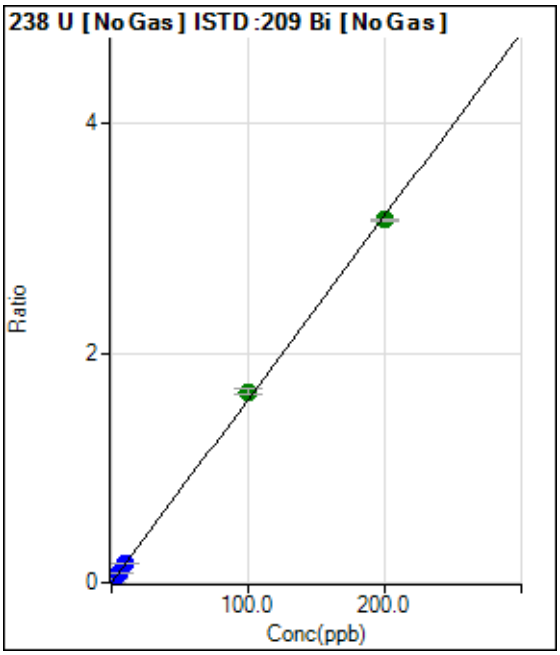
Calibration for 306_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	540.01	0.0004	P	10.4
2	☐	2.000	1.959	48181.02	0.0334	P	3.4
3	☐	5.000	4.953	121169.44	0.0838	P	1.8
4	☐	10.000	10.196	246289.76	0.1720	P	2.3
5	☐	100.000	102.553	2482469.80	1.7263	A	2.9
6	☐	200.000	198.715	4869667.27	3.3446	A	1.0

y = 0.0168 * x + 3.9335E-004
R = 0.9999
DL = 0.007283
BEC = 0.02337

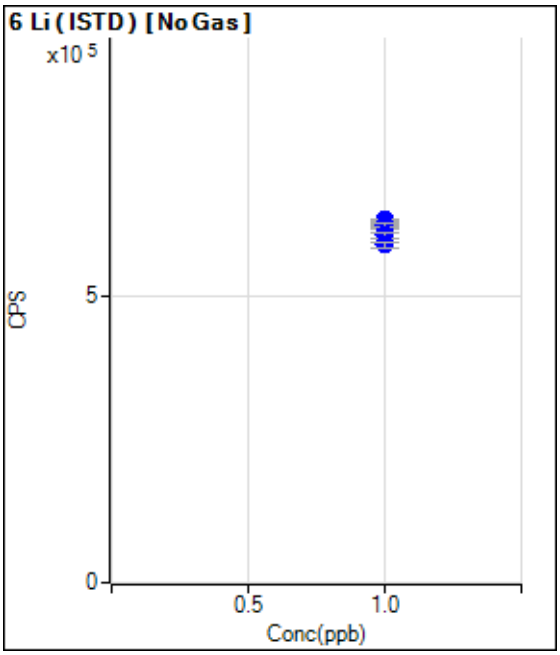
Weight: <None>
Min Conc: <None>



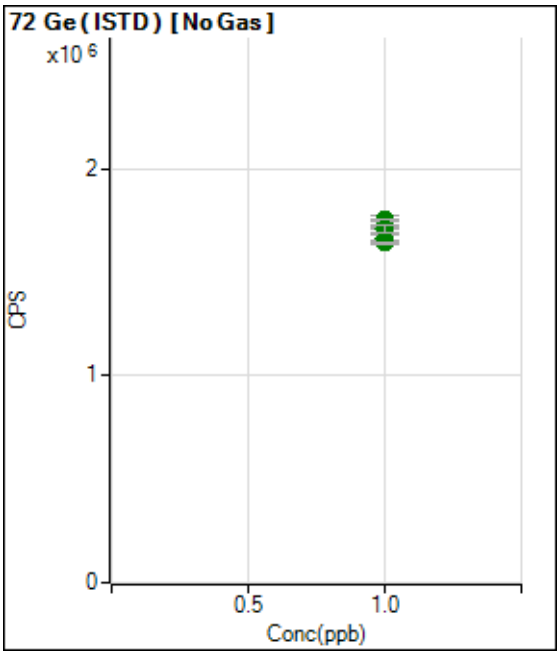
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0001	P	26.3
2	☐	2.000	1.881	43581.54	0.0302	P	3.4
3	☐	5.000	4.865	112653.68	0.0779	P	0.6
4	☐	10.000	10.041	229999.69	0.1606	P	1.7
5	☐	100.000	104.260	2396207.46	1.6662	A	2.9
6	☐	200.000	197.873	4603910.97	3.1620	A	0.3

y = 0.0160 * x + 1.2369E-004
R = 0.9997
DL = 0.00611
BEC = 0.007741

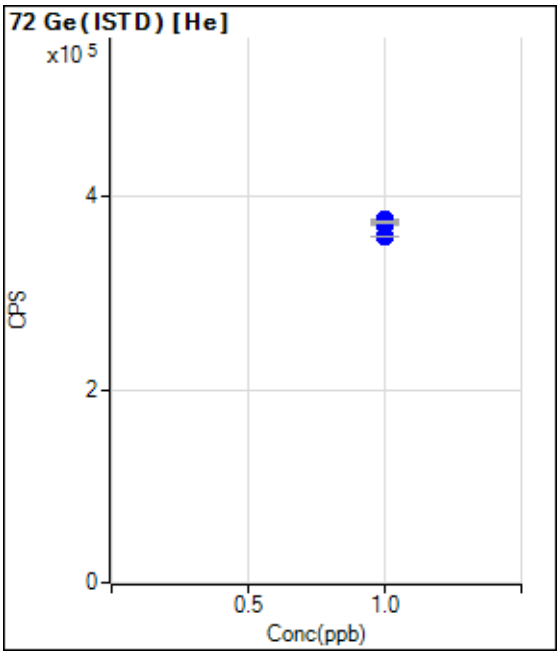
Weight: <None>
Min Conc: <None>



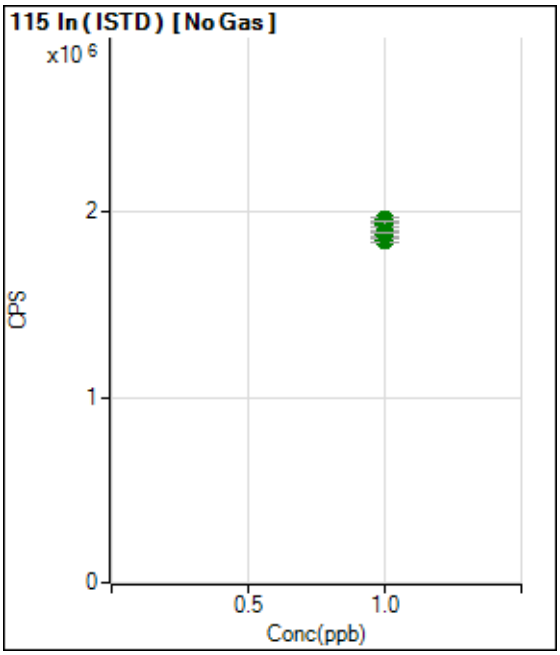
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		618497.13		P	0.5
2	☐	1.000		626128.50		P	0.9
3	☐	1.000		632678.27		P	0.9
4	☐	1.000		624572.32		P	1.0
5	☐	1.000		605369.58		P	1.2
6	☐	1.000		589012.70		P	1.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1667714.40		A	1.4
2	☐	1.000		1744421.07		A	3.8
3	☐	1.000		1724526.12		A	0.6
4	☐	1.000		1754866.17		A	0.6
5	☐	1.000		1708393.52		A	2.1
6	☐	1.000		1641917.68		A	0.4

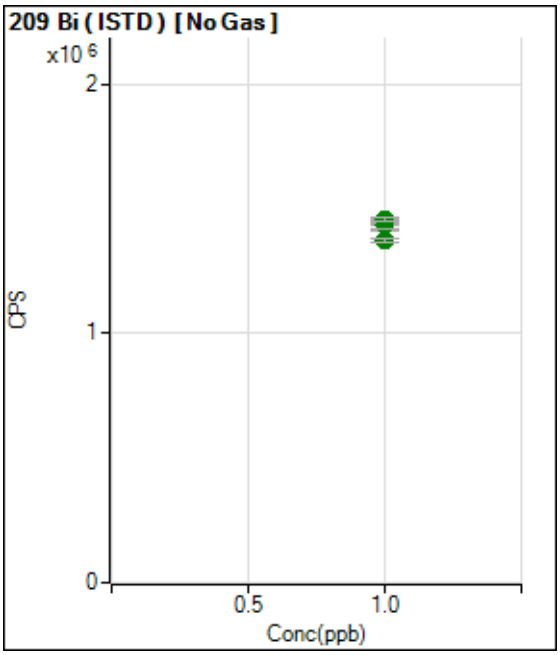


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		358506.91		P	0.4
2	☐	1.000		370678.47		P	0.2
3	☐	1.000		375938.99		P	0.3
4	☐	1.000		374830.71		P	0.2
5	☐	1.000		374277.40		P	0.8
6	☐	1.000		373074.96		P	0.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1852107.83		A	1.5
2	☐	1.000		1880842.80		A	2.1
3	☐	1.000		1936659.76		A	1.1
4	☐	1.000		1959565.97		A	1.4
5	☐	1.000		1939078.77		A	1.9
6	☐	1.000		1890301.54		A	0.3

Calibration for 306_ICV.d



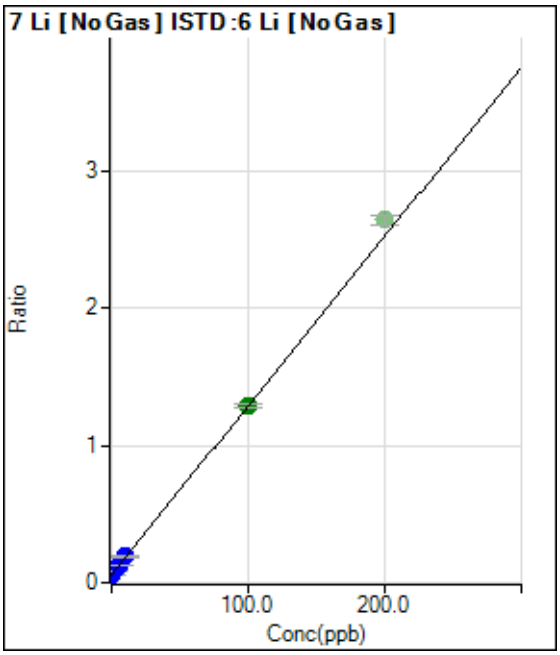
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1372906.44		A	1.0
2	☐	1.000		1444598.10		A	1.7
3	☐	1.000		1446782.32		A	0.6
4	☐	1.000		1432696.59		A	2.9
5	☐	1.000		1438556.59		A	2.1
6	☐	1.000		1456031.02		A	1.1

Calibration for 111_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\082923A.b\
Analysis File: 082923A.batch.bin
DA Date-Time: 8/29/2023 11:05:50 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	104CALB.d	CAL BLK	8/29/2023 2:48:07 PM
2	105CALS.d	2/10/200	8/29/2023 2:50:04 PM
3	106CALS.d	5/25/500	8/29/2023 2:52:01 PM
4	107CALS.d	10/50/100	8/29/2023 2:53:58 PM
5	108CALS.d	100/500/10K	8/29/2023 2:55:55 PM
6	109CALS.d	200/1000/20K	8/29/2023 2:57:47 PM

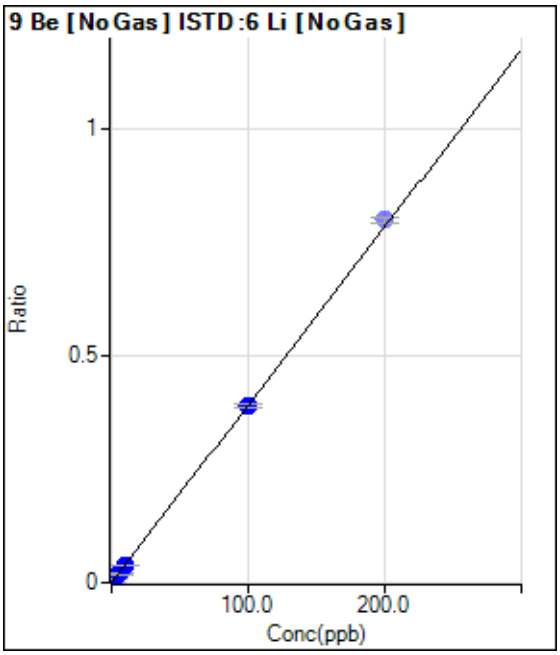
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36136.36	0.0566	P	1.5
2	☐	2.000	2.168	52696.72	0.0833	P	1.8
3	☐	5.000	5.372	77007.50	0.1227	P	0.8
4	☐	10.000	10.801	118089.46	0.1895	P	0.9
5	☐	100.000	99.898	791998.01	1.2862	A	1.8
6	☑	200.000		1527677.32	2.6405	A	2.8

y = 0.0123 * x + 0.0566
R = 1.0000
DL = 0.2053
BEC = 4.598

Weight: <None>
Min Conc: <None>

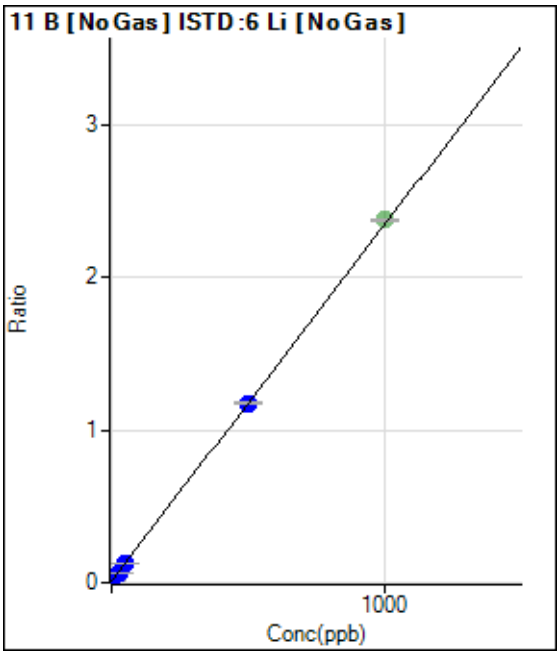


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	42.8
2	☐	2.000	1.932	4802.52	0.0076	P	3.5
3	☐	5.000	4.890	12035.21	0.0192	P	1.4
4	☐	10.000	10.011	24449.61	0.0392	P	1.8
5	☐	100.000	100.006	241292.34	0.3919	P	2.1
6	☑	200.000		462976.35	0.8002	P	1.7

y = 0.0039 * x + 2.0856E-005
R = 1.0000
DL = 0.006833
BEC = 0.005323

Weight: <None>
Min Conc: <None>

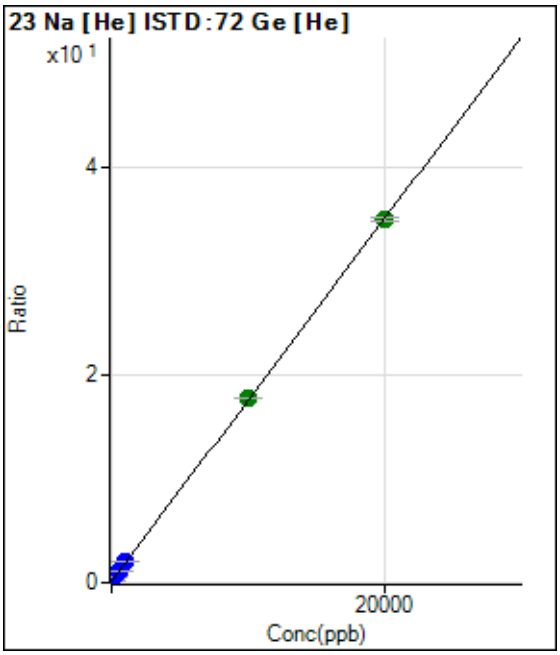
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6529.91	0.0102	P	2.7
2	☐	10.000	9.461	20441.55	0.0323	P	1.7
3	☐	25.000	24.405	42146.52	0.0672	P	3.3
4	☐	50.000	50.066	79142.91	0.1271	P	2.8
5	☐	500.000	500.034	724795.90	1.1771	P	1.6
6	☑	1000.000		1375262.11	2.3766	A	0.5

y = 0.0023 * x + 0.0102
R = 1.0000
DL = 0.3588
BEC = 4.383

Weight: <None>
Min Conc: <None>

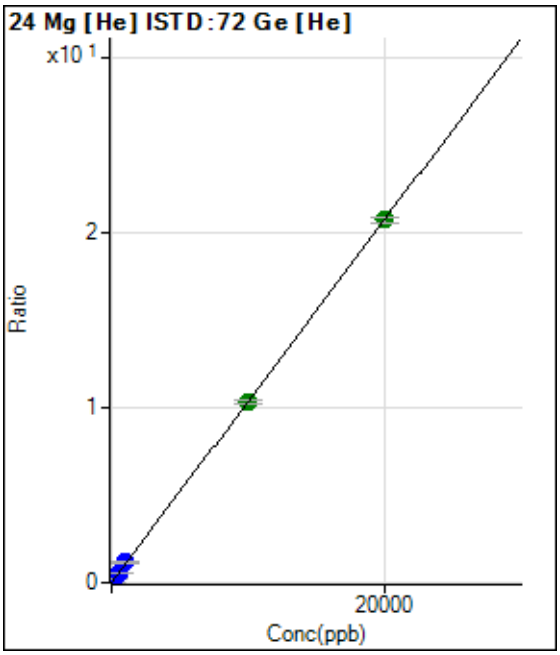


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46313.67	0.1204	P	1.7
2	☐	200.000	211.921	188181.97	0.4907	P	1.2
3	☐	500.000	541.906	407334.82	1.0673	P	0.3
4	☐	1000.000	1103.862	778728.53	2.0492	P	0.1
5	☐	10000.000	10110.154	6782391.98	17.7860	A	0.2
6	☐	20000.000	19938.563	13070903.14	34.9593	A	1.0

y = 0.0017 * x + 0.1204
R = 1.0000
DL = 3.573
BEC = 68.91

Weight: <None>
Min Conc: <None>

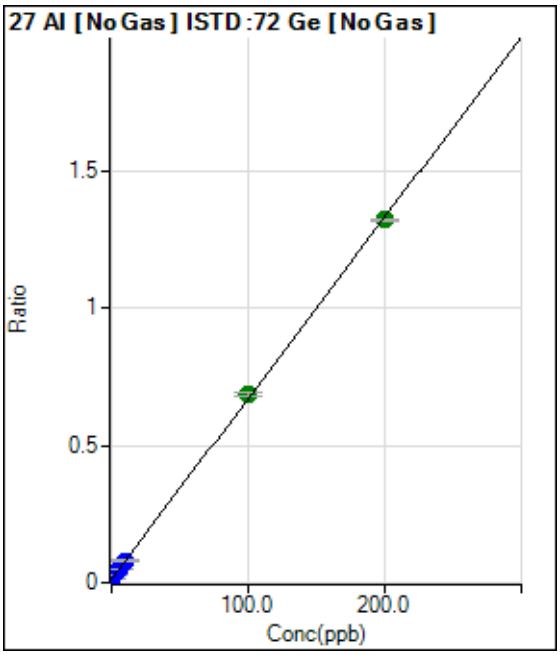
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	410.02	0.0011	P	6.4
2	☐	200.000	215.854	86225.86	0.2248	P	0.6
3	☐	500.000	547.107	216868.16	0.5682	P	1.7
4	☐	1000.000	1117.289	440575.73	1.1594	P	1.0
5	☐	10000.000	9992.480	3951041.19	10.3602	A	2.0
6	☐	20000.000	19996.559	7751084.47	20.7314	A	1.8

y = 0.0010 * x + 0.0011
R = 1.0000
DL = 0.1984
BEC = 1.028

Weight: <None>
Min Conc: <None>

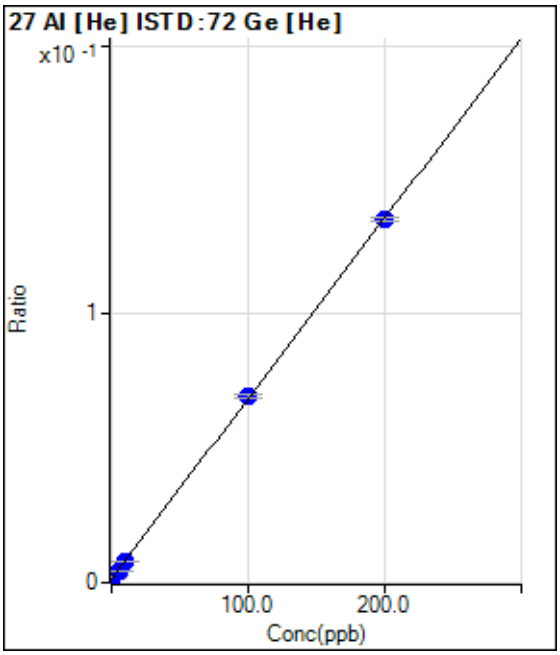


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21533.62	0.0124	P	0.6
2	☐	2.000	2.292	47380.79	0.0275	P	3.3
3	☐	5.000	5.211	78336.83	0.0467	P	2.8
4	☐	10.000	10.333	135717.17	0.0804	P	3.6
5	☐	100.000	102.307	1166565.92	0.6851	A	2.3
6	☐	200.000	198.822	2186986.64	1.3197	A	0.6

y = 0.0066 * x + 0.0124
R = 0.9999
DL = 0.0324
BEC = 1.89

Weight: <None>
Min Conc: <None>

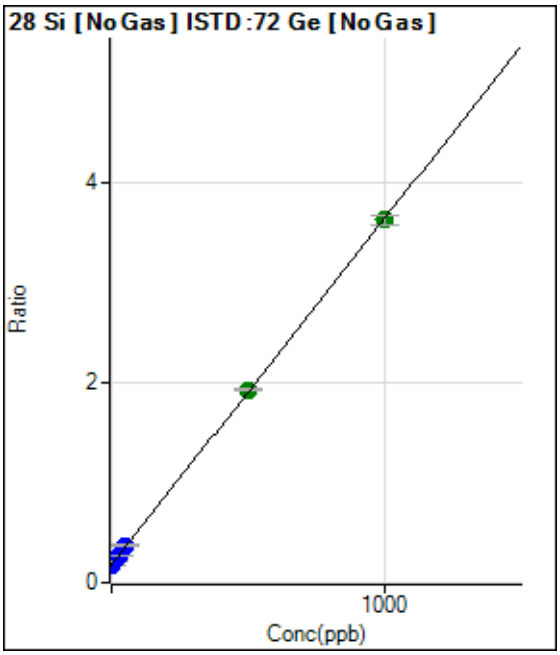
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	513.35	0.0013	P	14.3
2	☐	2.000	2.138	1063.39	0.0028	P	20.4
3	☐	5.000	4.734	1723.47	0.0045	P	2.6
4	☐	10.000	9.932	3043.72	0.0080	P	0.8
5	☐	100.000	101.561	26532.28	0.0696	P	1.6
6	☐	200.000	199.228	50555.41	0.1352	P	1.1

y = 6.7197E-004 * x + 0.0013
R = 1.0000
DL = 0.8505
BEC = 1.987

Weight: <None>
Min Conc: <None>

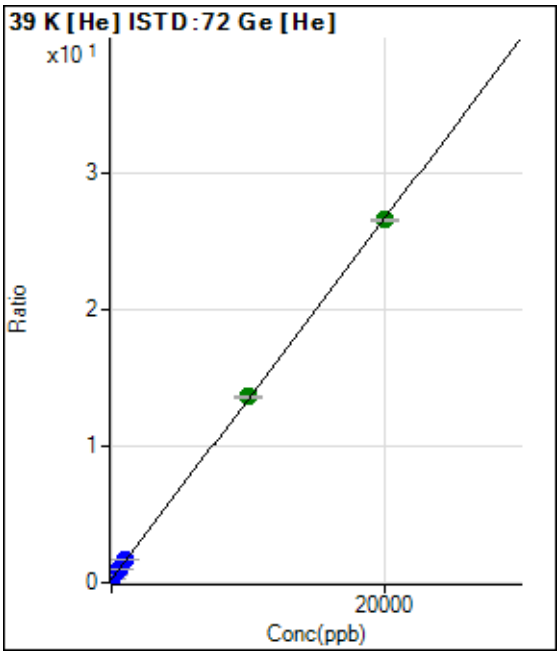


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	310961.79	0.1795	P	0.4
2	☐	10.000	10.457	371772.11	0.2157	P	1.8
3	☐	25.000	28.025	464079.32	0.2766	P	0.7
4	☐	50.000	55.383	627243.76	0.3713	P	2.2
5	☐	500.000	505.877	3289671.83	1.9319	A	1.5
6	☐	1000.000	996.712	6018113.66	3.6321	A	2.3

y = 0.0035 * x + 0.1795
R = 1.0000
DL = 0.6581
BEC = 51.82

Weight: <None>
Min Conc: <None>

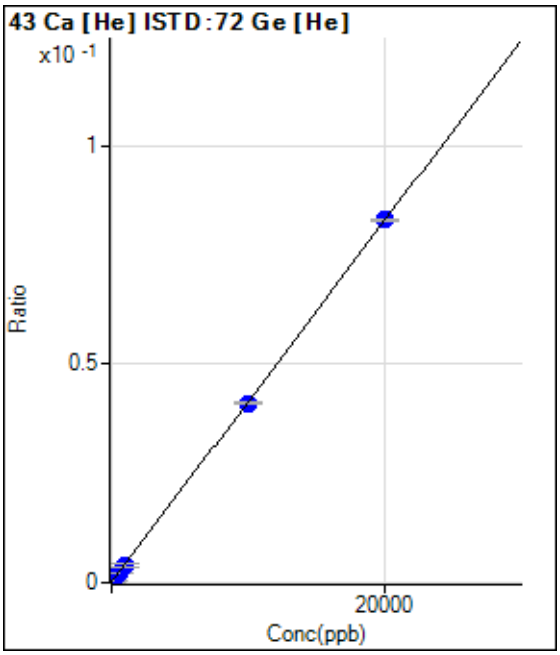
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	89498.66	0.2327	P	0.6
2	☐	200.000	212.522	196985.35	0.5137	P	0.4
3	☐	500.000	535.834	359200.14	0.9412	P	1.1
4	☐	1000.000	1097.617	639941.84	1.6840	P	0.7
5	☐	10000.000	10133.517	5198521.38	13.6317	A	1.1
6	☐	20000.000	19927.340	9938753.39	26.5816	A	0.8

y = 0.0013 * x + 0.2327
R = 1.0000
DL = 3.198
BEC = 176

Weight: <None>
Min Conc: <None>

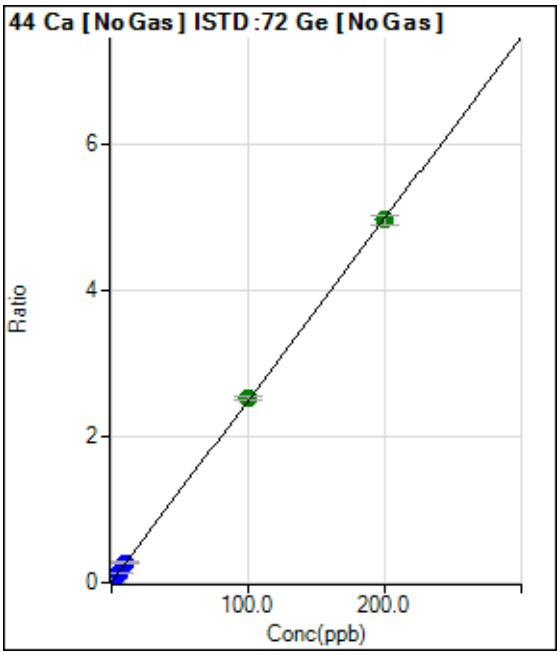


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.00	0.0001	P	24.7
2	☐	200.000	120.100	230.00	0.0006	P	13.4
3	☐	500.000	477.974	793.37	0.0021	P	8.7
4	☐	1000.000	909.563	1466.77	0.0039	P	23.7
5	☐	10000.000	9894.901	15622.43	0.0410	P	1.3
6	☐	20000.000	20058.421	31015.39	0.0829	P	0.4

y = 4.1300E-006 * x + 1.0392E-004
R = 1.0000
DL = 18.65
BEC = 25.16

Weight: <None>
Min Conc: <None>

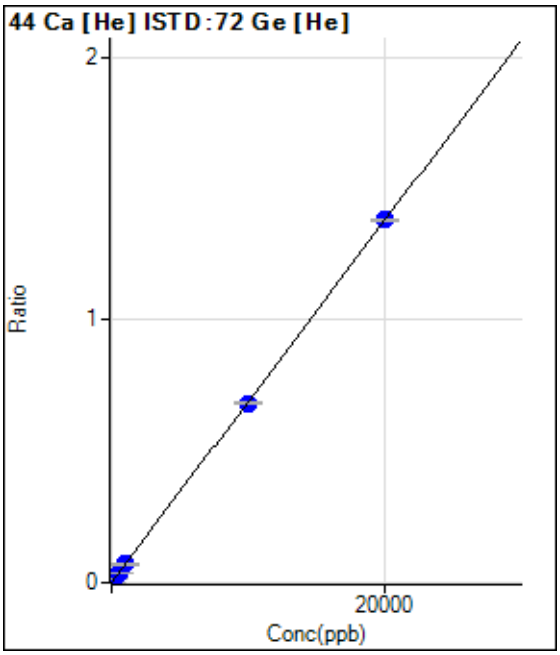
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14184.19	0.0082	P	0.2
2	☐	2.000	2.088	103473.67	0.0600	P	1.7
3	☐	5.000	5.363	237181.36	0.1414	P	1.5
4	☐	10.000	10.718	463400.54	0.2743	P	1.8
5	☐	100.000	101.161	4291560.98	2.5202	A	1.6
6	☐	200.000	199.374	8216252.79	4.9590	A	2.8

y = 0.0248 * x + 0.0082
R = 1.0000
DL = 0.002387
BEC = 0.3297

Weight: <None>
Min Conc: <None>

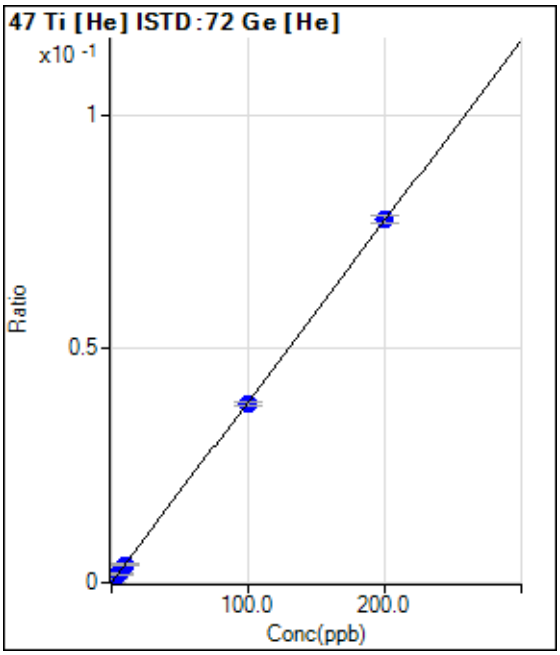


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	273.34	0.0007	P	15.0
2	☐	200.000	194.704	5407.81	0.0141	P	4.3
3	☐	500.000	493.472	13226.56	0.0347	P	1.0
4	☐	1000.000	1000.823	26429.03	0.0696	P	1.9
5	☐	10000.000	9890.921	259720.65	0.6810	P	1.1
6	☐	20000.000	20054.714	516054.63	1.3802	P	0.4

y = 6.8784E-005 * x + 7.1073E-004
R = 1.0000
DL = 4.636
BEC = 10.33

Weight: <None>
Min Conc: <None>

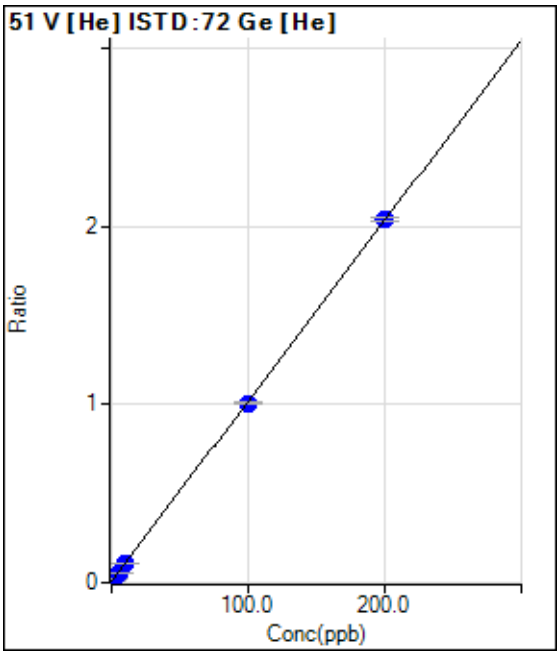
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	114.8
2	☐	2.000	2.316	356.68	0.0009	P	19.5
3	☐	5.000	4.990	750.04	0.0020	P	15.2
4	☐	10.000	9.797	1453.44	0.0038	P	7.3
5	☐	100.000	98.837	14591.36	0.0383	P	1.1
6	☐	200.000	200.589	29021.05	0.0776	P	2.2

y = 3.8679E-004 * x + 3.4797E-005
R = 1.0000
DL = 0.3099
BEC = 0.08996

Weight: <None>
Min Conc: <None>

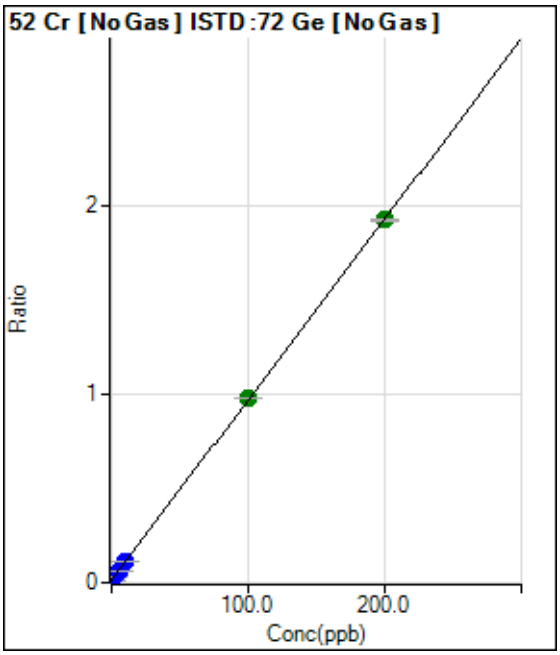


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2718.06	0.0071	P	3.7
2	☐	2.000	1.932	10200.49	0.0266	P	0.5
3	☐	5.000	4.909	21642.67	0.0567	P	1.0
4	☐	10.000	10.153	41697.62	0.1097	P	0.7
5	☐	100.000	98.800	383618.42	1.0061	P	1.4
6	☐	200.000	200.595	760995.91	2.0353	P	1.0

y = 0.0101 * x + 0.0071
R = 1.0000
DL = 0.07845
BEC = 0.6988

Weight: <None>
Min Conc: <None>

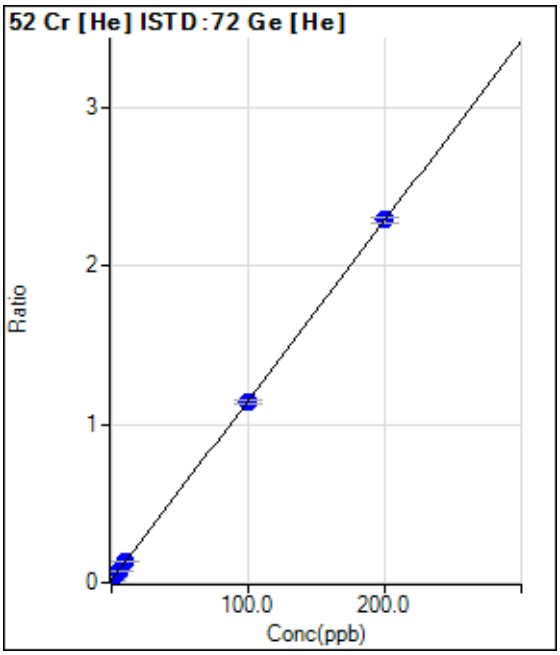
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24258.39	0.0140	P	4.6
2	☐	2.000	2.034	57785.41	0.0335	P	2.3
3	☐	5.000	5.257	108138.39	0.0645	P	2.7
4	☐	10.000	10.434	192720.27	0.1141	P	3.4
5	☐	100.000	100.699	1669351.17	0.9802	A	0.7
6	☐	200.000	199.622	3197441.72	1.9294	A	0.7

y = 0.0096 * x + 0.0140
R = 1.0000
DL = 0.2001
BEC = 1.46

Weight: <None>
Min Conc: <None>

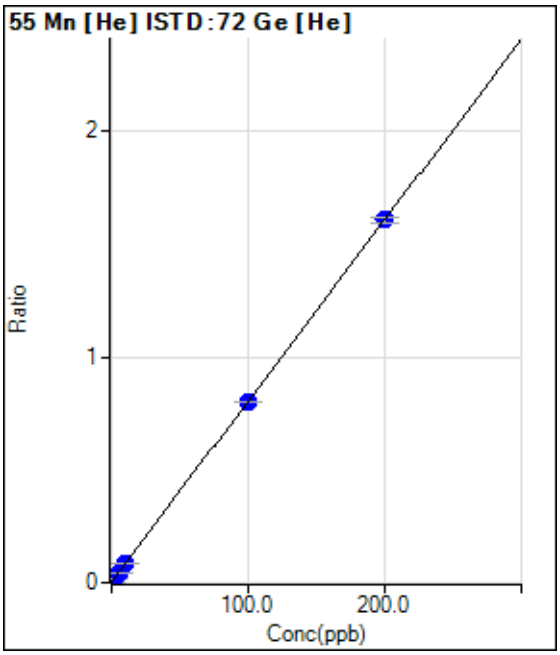


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5651.25	0.0147	P	6.5
2	☐	2.000	1.942	14080.75	0.0367	P	2.2
3	☐	5.000	5.114	27745.19	0.0727	P	2.3
4	☐	10.000	10.268	49844.35	0.1312	P	1.7
5	☐	100.000	99.152	434463.76	1.1394	P	1.6
6	☐	200.000	200.408	855436.86	2.2880	P	1.4

y = 0.0113 * x + 0.0147
R = 1.0000
DL = 0.2522
BEC = 1.295

Weight: <None>
Min Conc: <None>

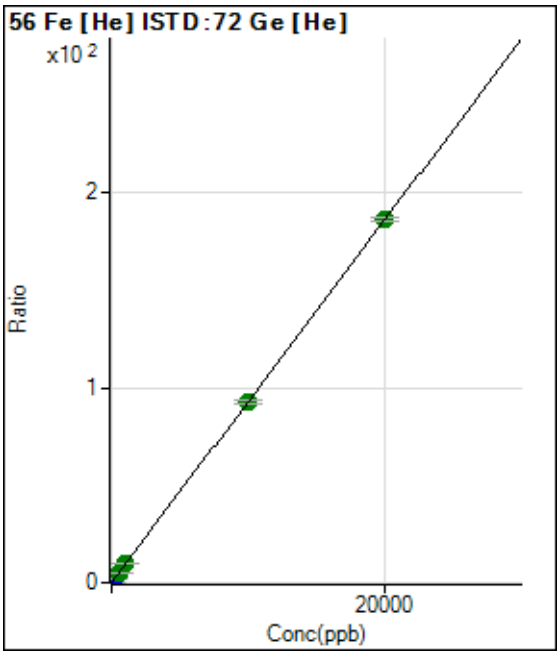
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1206.74	0.0031	P	5.5
2	☐	2.000	2.119	7718.99	0.0201	P	1.9
3	☐	5.000	5.067	16700.44	0.0438	P	2.1
4	☐	10.000	10.328	32659.59	0.0859	P	1.2
5	☐	100.000	99.598	305689.13	0.8016	P	0.3
6	☐	200.000	200.182	601207.27	1.6080	P	1.4

y = 0.0080 * x + 0.0031
R = 1.0000
DL = 0.06493
BEC = 0.3914

Weight: <None>
Min Conc: <None>

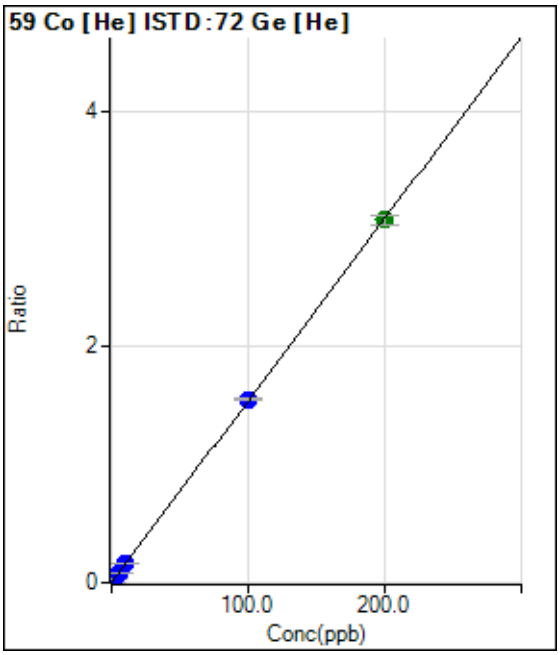


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14684.79	0.0382	P	1.2
2	☐	200.000	207.718	755323.16	1.9696	P	0.5
3	☐	500.000	515.882	1845401.17	4.8350	A	0.7
4	☐	1000.000	1017.670	3610530.99	9.5008	A	0.7
5	☐	10000.000	9947.856	35284869.47	92.5370	A	2.1
6	☐	20000.000	20024.714	69630700.63	186.2353	A	1.1

y = 0.0093 * x + 0.0382
R = 1.0000
DL = 0.1486
BEC = 4.106

Weight: <None>
Min Conc: <None>

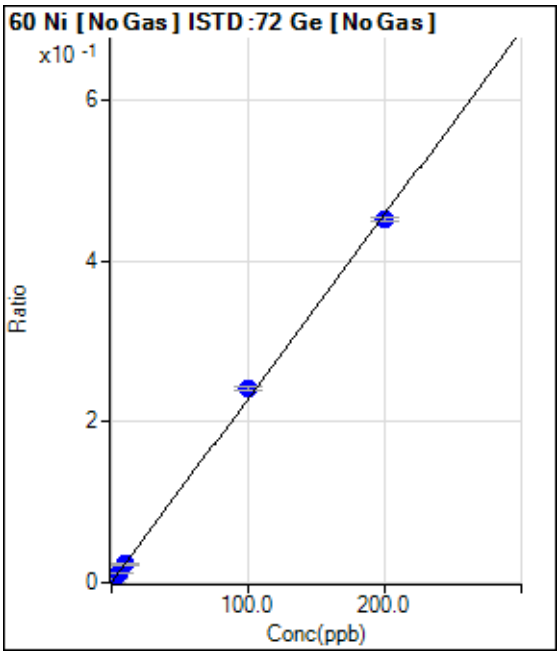
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	203.34	0.0005	P	12.9
2	☐	2.000	1.997	12015.52	0.0313	P	1.1
3	☐	5.000	5.177	30684.92	0.0804	P	2.4
4	☐	10.000	10.414	61244.33	0.1612	P	1.0
5	☐	100.000	100.927	593847.52	1.5573	P	0.2
6	☐	200.000	199.511	1150657.25	3.0779	A	2.4

y = 0.0154 * x + 5.2883E-004
R = 1.0000
DL = 0.01327
BEC = 0.03428

Weight: <None>
Min Conc: <None>

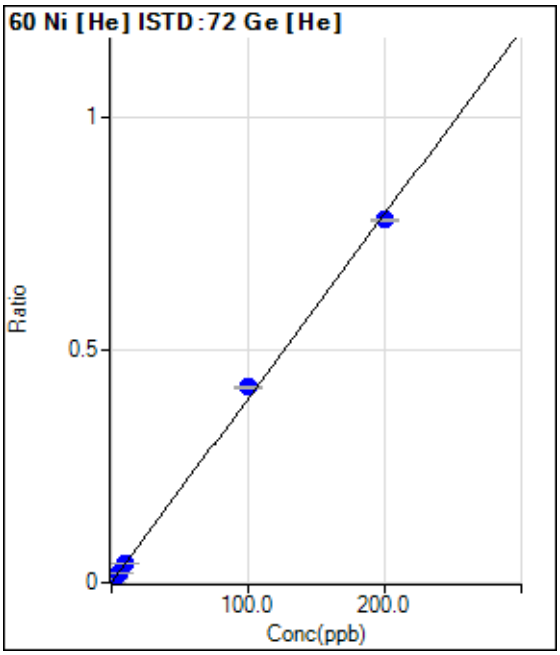


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	360.01	0.0002	P	22.8
2	☐	2.000	1.924	7932.44	0.0046	P	3.2
3	☐	5.000	5.039	19661.10	0.0117	P	2.6
4	☐	10.000	9.974	38825.83	0.0230	P	3.4
5	☐	100.000	105.687	411451.82	0.2416	P	1.6
6	☐	200.000	197.158	746632.77	0.4506	P	1.2

y = 0.0023 * x + 2.0810E-004
R = 0.9994
DL = 0.06244
BEC = 0.0911

Weight: <None>
Min Conc: <None>

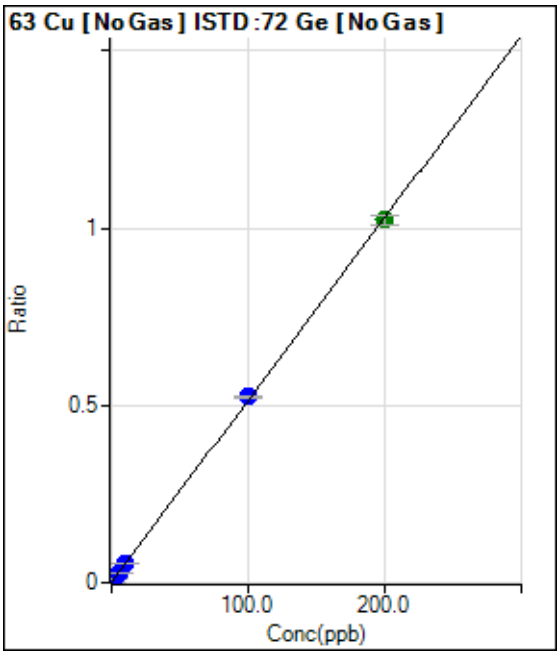
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0003	P	32.9
2	☐	2.000	2.027	3193.78	0.0083	P	3.8
3	☐	5.000	4.956	7602.22	0.0199	P	5.4
4	☐	10.000	9.975	15111.99	0.0398	P	1.8
5	☐	100.000	106.115	160175.15	0.4200	P	0.9
6	☐	200.000	196.945	291377.85	0.7793	P	0.6

y = 0.0040 * x + 3.1161E-004
R = 0.9993
DL = 0.07775
BEC = 0.07878

Weight: <None>
Min Conc: <None>

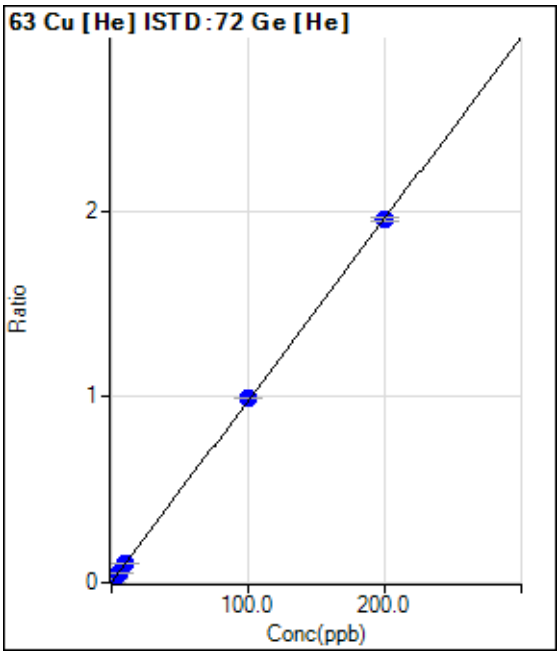


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1363.43	0.0008	P	11.9
2	☐	2.000	1.928	18426.11	0.0107	P	1.7
3	☐	5.000	5.213	46269.10	0.0276	P	1.9
4	☐	10.000	10.446	91973.29	0.0545	P	3.0
5	☐	100.000	102.032	894053.09	0.5250	P	1.1
6	☐	200.000	198.957	1695054.71	1.0230	A	2.5

y = 0.0051 * x + 7.8745E-004
R = 0.9999
DL = 0.05467
BEC = 0.1533

Weight: <None>
Min Conc: <None>

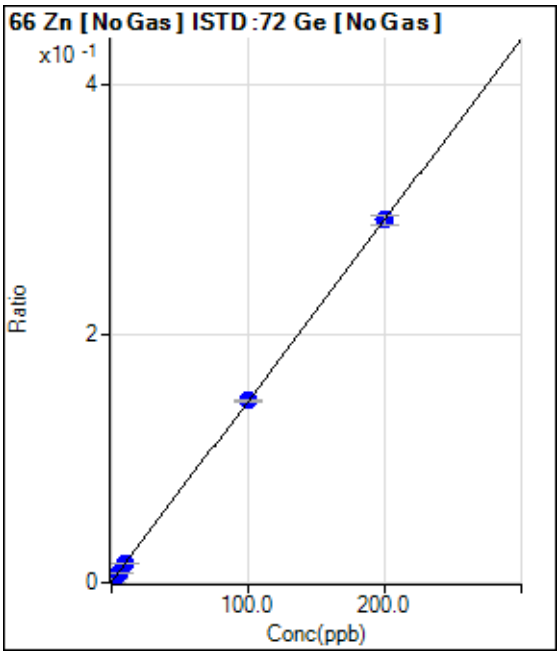
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	583.36	0.0015	P	9.0
2	☐	2.000	2.099	8469.44	0.0221	P	2.3
3	☐	5.000	5.052	19470.93	0.0510	P	1.8
4	☐	10.000	10.224	38645.56	0.1017	P	0.9
5	☐	100.000	101.239	378834.96	0.9935	P	0.8
6	☐	200.000	199.367	730976.63	1.9549	P	1.2

y = 0.0098 * x + 0.0015
R = 1.0000
DL = 0.04159
BEC = 0.1547

Weight: <None>
Min Conc: <None>

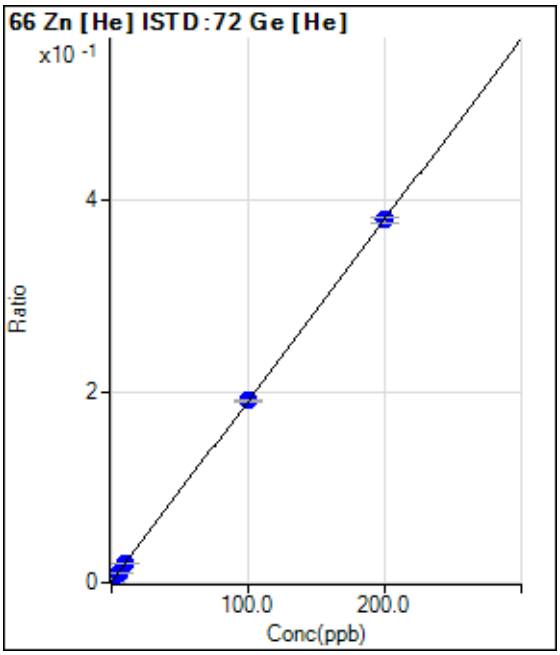


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1233.41	0.0007	P	4.6
2	☐	2.000	1.965	6151.52	0.0036	P	3.0
3	☐	5.000	5.030	13466.92	0.0080	P	1.7
4	☐	10.000	10.034	25851.56	0.0153	P	1.8
5	☐	100.000	99.982	248788.19	0.1461	P	1.7
6	☐	200.000	200.007	483073.89	0.2916	P	2.4

y = 0.0015 * x + 7.1223E-004
R = 1.0000
DL = 0.0682
BEC = 0.4898

Weight: <None>
Min Conc: <None>

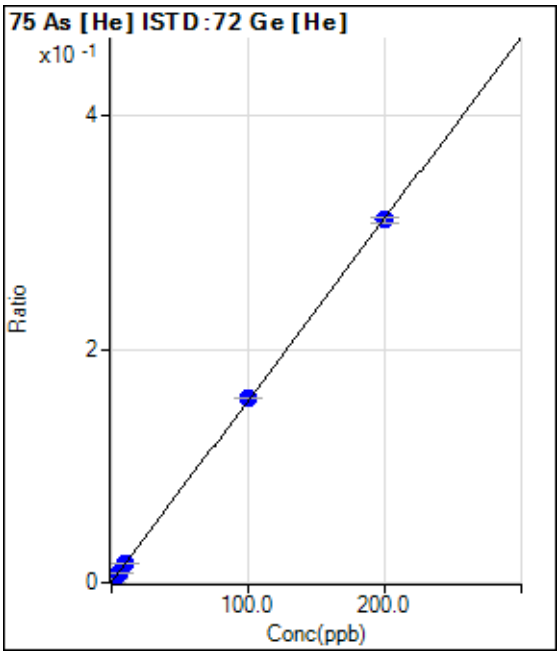
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	363.34	0.0009	P	11.4
2	☐	2.000	2.241	1990.18	0.0052	P	8.0
3	☐	5.000	4.849	3863.95	0.0101	P	9.4
4	☐	10.000	10.055	7595.60	0.0200	P	2.4
5	☐	100.000	100.115	72664.38	0.1906	P	0.5
6	☐	200.000	199.941	141943.44	0.3796	P	1.9

y = 0.0019 * x + 9.4455E-004
R = 1.0000
DL = 0.1712
BEC = 0.4987

Weight: <None>
Min Conc: <None>

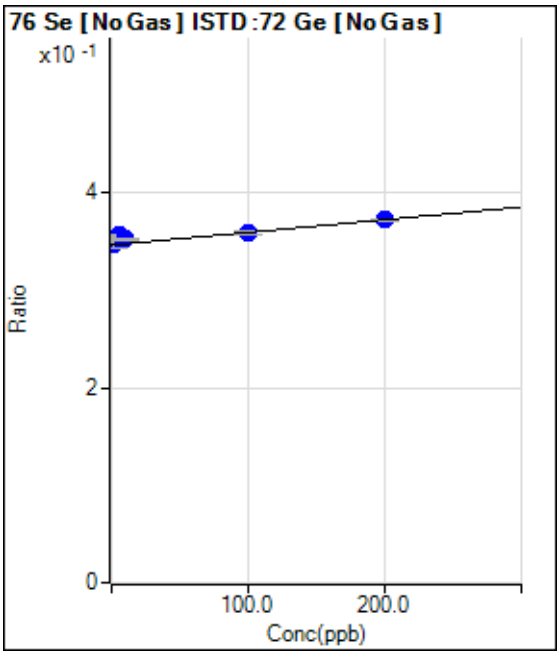


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	131.11	0.0003	P	34.4
2	☐	2.000	1.847	1234.51	0.0032	P	3.7
3	☐	5.000	4.860	3020.36	0.0079	P	4.2
4	☐	10.000	10.249	6199.22	0.0163	P	1.8
5	☐	100.000	101.298	60334.14	0.1582	P	0.5
6	☐	200.000	199.344	116292.32	0.3110	P	1.5

y = 0.0016 * x + 3.4073E-004
R = 1.0000
DL = 0.2254
BEC = 0.2186

Weight: <None>
Min Conc: <None>

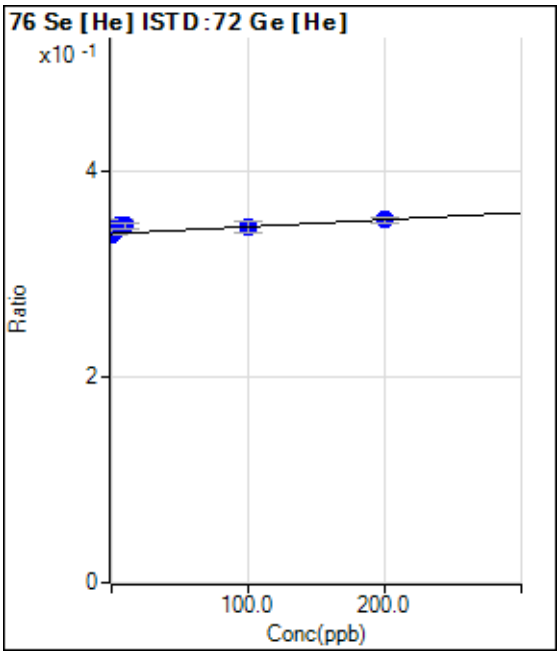
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	600116.06	0.3465	P	2.0
2	☐	2.000	-1.130	596845.33	0.3463	P	1.9
3	☐	5.000	76.462	598094.90	0.3564	P	0.8
4	☐	10.000	48.288	596022.41	0.3528	P	0.5
5	☐	100.000	96.280	611337.27	0.3590	P	0.7
6	☐	200.000	198.190	616950.86	0.3722	P	0.6

y = 1.2998E-004 * x + 0.3465
R = 0.9239
DL = 158.1
BEC = 2666

Weight: <None>
Min Conc: <None>

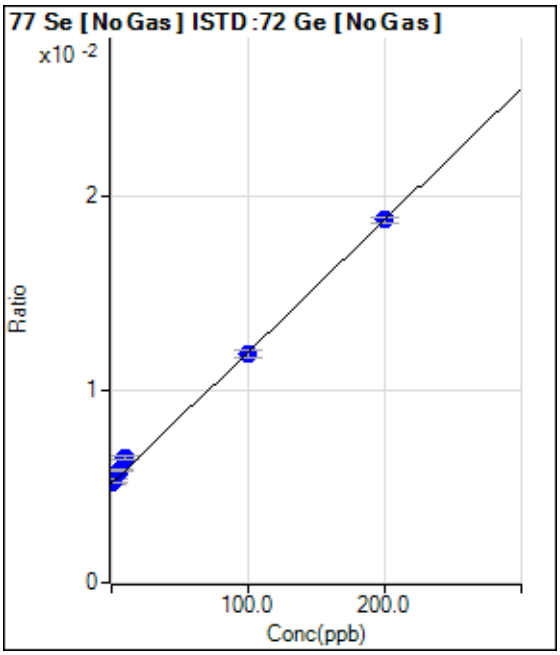


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130588.22	0.3395	P	0.9
2	☐	2.000	12.734	130524.58	0.3404	P	1.2
3	☐	5.000	133.750	133055.29	0.3487	P	3.1
4	☐	10.000	116.826	132058.89	0.3475	P	1.8
5	☐	100.000	91.266	131837.27	0.3458	P	3.1
6	☐	200.000	195.700	131964.56	0.3529	P	1.6

y = 6.8683E-005 * x + 0.3395
R = 0.6905
DL = 133
BEC = 4943

Weight: <None>
Min Conc: <None>

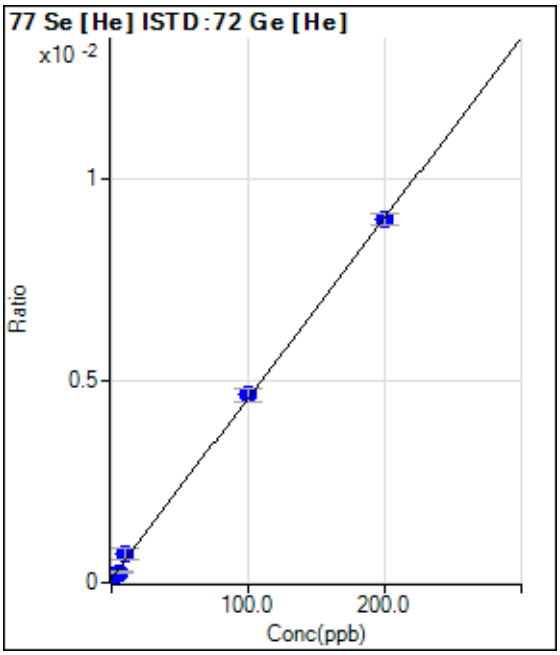
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8896.41	0.0051	P	1.5
2	☐	2.000	2.425	9139.92	0.0053	P	3.3
3	☐	5.000	9.940	9757.03	0.0058	P	1.7
4	☐	10.000	19.609	10937.96	0.0065	P	4.0
5	☐	100.000	98.684	20215.51	0.0119	P	3.1
6	☐	200.000	200.050	31139.67	0.0188	P	1.8

y = 6.8269E-005 * x + 0.0051
R = 0.9989
DL = 3.464
BEC = 75.22

Weight: <None>
Min Conc: <None>

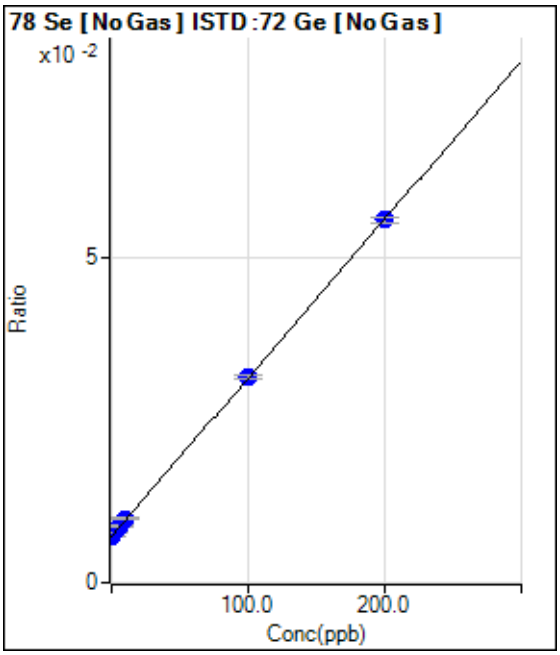


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	34.8
2	☐	2.000	2.146	80.00	0.0002	P	62.1
3	☐	5.000	3.153	96.67	0.0003	P	11.4
4	☐	10.000	13.428	270.01	0.0007	P	43.9
5	☐	100.000	101.757	1773.49	0.0047	P	6.9
6	☐	200.000	198.995	3360.48	0.0090	P	3.0

y = 4.4603E-005 * x + 1.1253E-004
R = 0.9997
DL = 2.635
BEC = 2.523

Weight: <None>
Min Conc: <None>

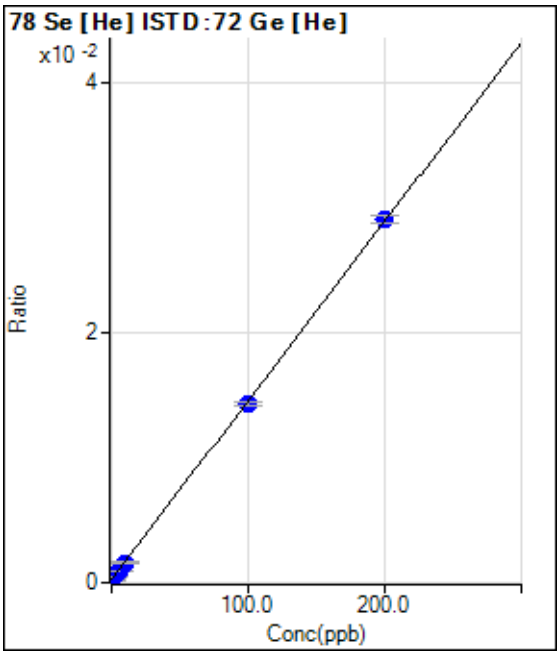
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12355.87	0.0071	P	3.4
2	☐	2.000	2.299	13260.04	0.0077	P	1.3
3	☐	5.000	6.443	14608.12	0.0087	P	1.3
4	☐	10.000	11.314	16717.31	0.0099	P	2.1
5	☐	100.000	100.565	53981.58	0.0317	P	1.0
6	☐	200.000	199.613	92620.59	0.0559	P	1.7

y = 2.4427E-004 * x + 0.0071
R = 1.0000
DL = 2.979
BEC = 29.2

Weight: <None>
Min Conc: <None>

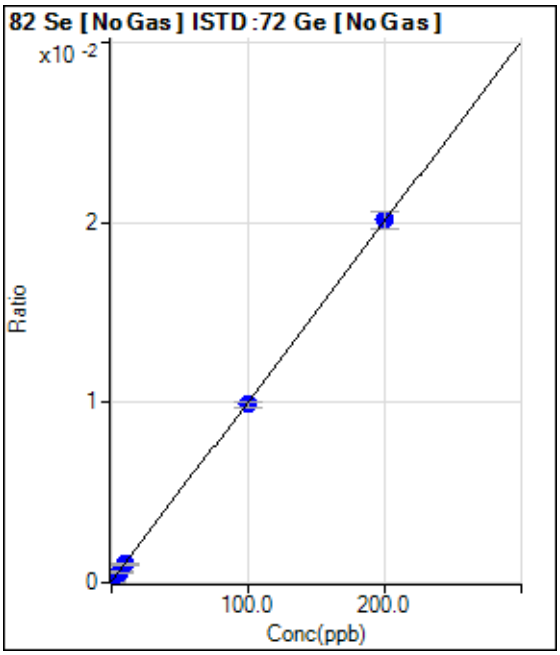


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.67	0.0003	P	20.5
2	☐	2.000	1.886	200.00	0.0005	P	5.4
3	☐	5.000	4.748	355.34	0.0009	P	9.5
4	☐	10.000	9.352	604.68	0.0016	P	6.3
5	☐	100.000	98.092	5454.45	0.0143	P	1.5
6	☐	200.000	200.994	10857.72	0.0290	P	2.1

y = 1.4325E-004 * x + 2.5132E-004
R = 0.9999
DL = 1.077
BEC = 1.754

Weight: <None>
Min Conc: <None>

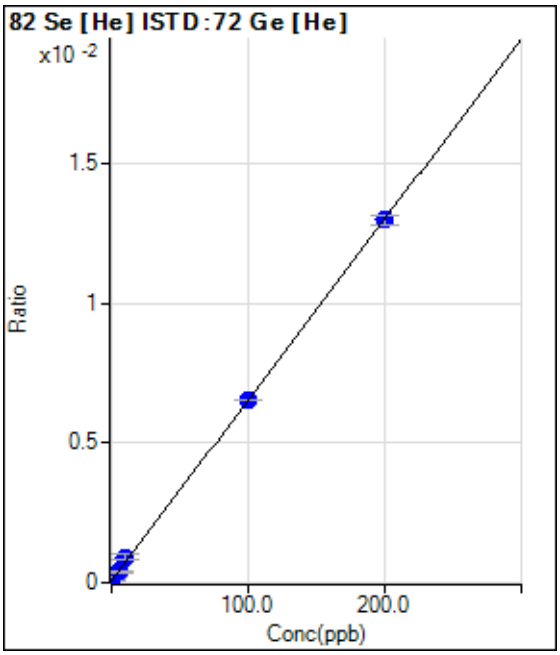
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.44	0.0001	P	39.8
2	☐	2.000	2.500	538.63	0.0003	P	7.4
3	☐	5.000	5.143	968.52	0.0006	P	19.4
4	☐	10.000	9.749	1752.12	0.0010	P	9.7
5	☐	100.000	98.275	16846.51	0.0099	P	3.6
6	☐	200.000	200.866	33390.63	0.0202	P	4.6

y = 1.0003E-004 * x + 6.2591E-005
R = 0.9999
DL = 0.7475
BEC = 0.6257

Weight: <None>
Min Conc: <None>

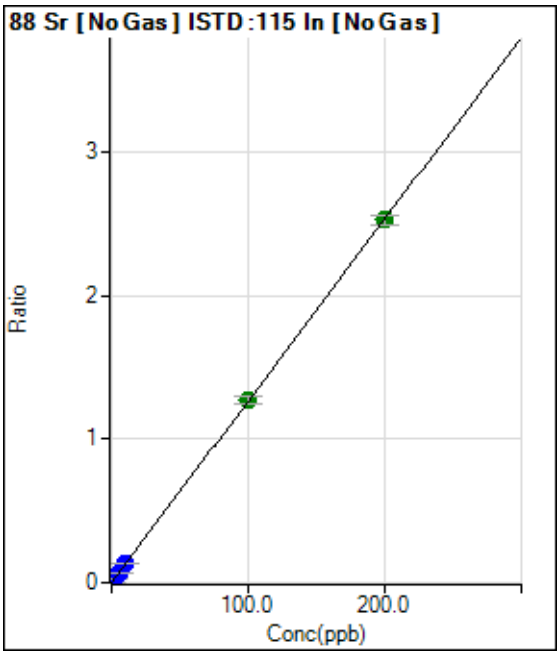


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0001	P	66.6
2	☐	2.000	2.957	103.33	0.0003	P	30.6
3	☐	5.000	5.012	153.34	0.0004	P	17.2
4	☐	10.000	12.892	346.68	0.0009	P	21.5
5	☐	100.000	99.919	2493.61	0.0065	P	0.6
6	☐	200.000	199.886	4860.99	0.0130	P	2.4

y = 6.4662E-005 * x + 7.8037E-005
R = 0.9999
DL = 2.41
BEC = 1.207

Weight: <None>
Min Conc: <None>

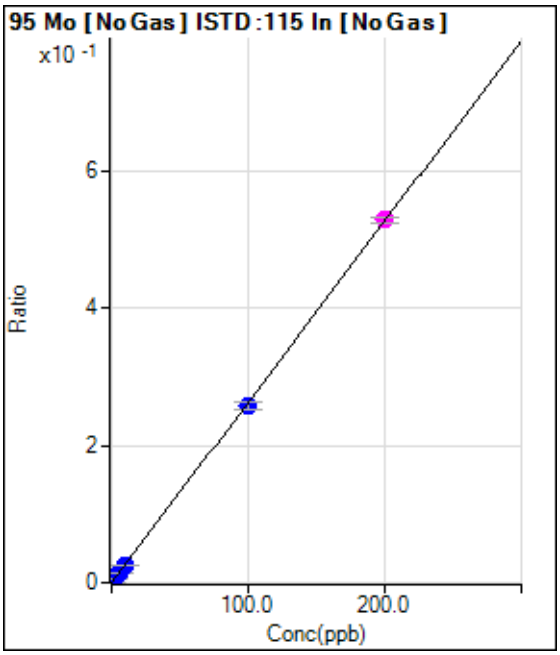
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	483.35	0.0003	P	15.2
2	☐	2.000	2.028	50171.03	0.0259	P	3.0
3	☐	5.000	5.095	125753.65	0.0648	P	1.3
4	☐	10.000	10.343	250234.99	0.1312	P	1.9
5	☐	100.000	100.516	2418415.38	1.2729	A	3.3
6	☐	200.000	199.722	4646129.72	2.5290	A	2.6

y = 0.0127 * x + 2.5023E-004
R = 1.0000
DL = 0.009011
BEC = 0.01976

Weight: <None>
Min Conc: <None>

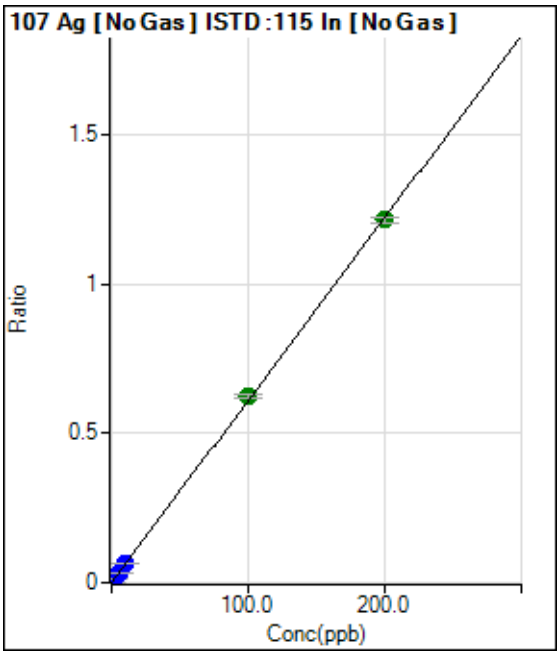


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0001	P	23.8
2	☐	2.000	1.876	9683.65	0.0050	P	1.0
3	☐	5.000	4.794	24616.42	0.0127	P	0.5
4	☐	10.000	9.746	49003.51	0.0257	P	2.1
5	☐	100.000	98.165	490383.90	0.2582	P	4.5
6	☐	200.000	200.937	970866.44	0.5284	M	1.3

y = 0.0026 * x + 7.0758E-005
R = 0.9999
DL = 0.01921
BEC = 0.02691

Weight: <None>
Min Conc: <None>

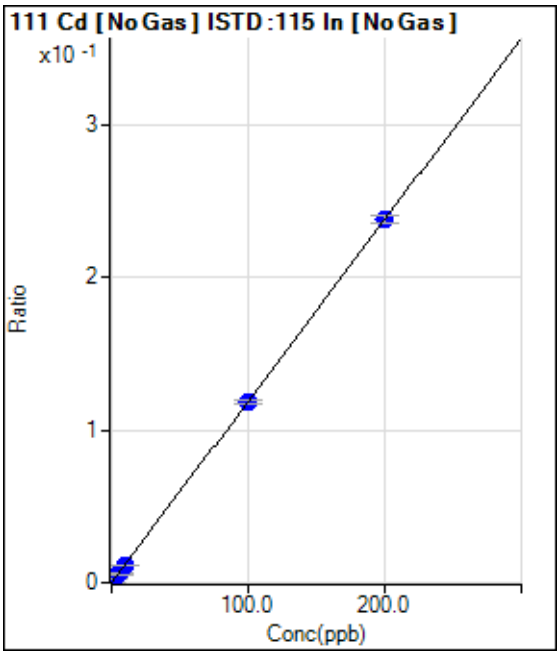
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0001	P	46.0
2	☐	2.000	1.978	23527.97	0.0122	P	4.6
3	☐	5.000	4.947	58781.01	0.0303	P	1.3
4	☐	10.000	10.357	120688.04	0.0633	P	1.2
5	☐	100.000	101.912	1181508.60	0.6217	A	2.3
6	☐	200.000	199.028	2230661.90	1.2141	A	1.9

y = 0.0061 * x + 9.4767E-005
R = 0.9999
DL = 0.02142
BEC = 0.01554

Weight: <None>
Min Conc: <None>

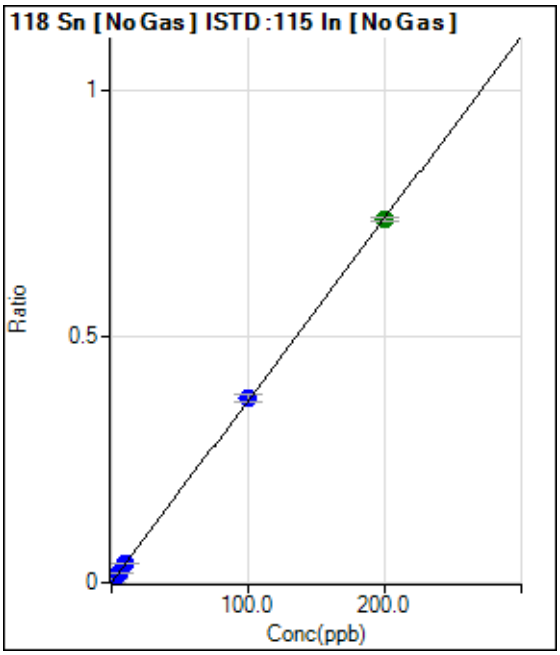


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9.51	0.0000	P	101.2
2	☐	2.000	1.944	4480.94	0.0023	P	5.8
3	☐	5.000	4.795	11076.59	0.0057	P	3.6
4	☐	10.000	9.895	22445.74	0.0118	P	2.7
5	☐	100.000	99.948	225823.61	0.1188	P	1.7
6	☐	200.000	200.037	436866.90	0.2378	P	2.1

y = 0.0012 * x + 4.9038E-006
R = 1.0000
DL = 0.01252
BEC = 0.004125

Weight: <None>
Min Conc: <None>

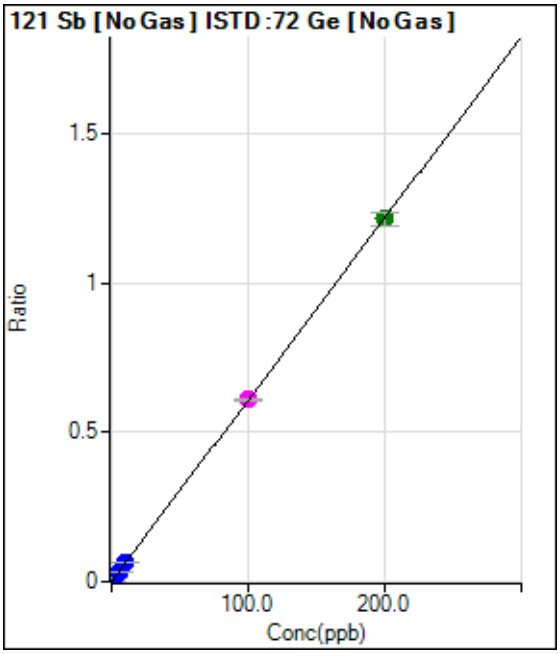
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	560.03	0.0003	P	7.6
2	☐	2.000	2.015	14976.62	0.0077	P	3.3
3	☐	5.000	4.874	35548.53	0.0183	P	1.6
4	☐	10.000	10.171	72252.13	0.0379	P	1.9
5	☐	100.000	101.597	713947.44	0.3758	P	3.8
6	☐	200.000	199.196	1353445.39	0.7366	A	1.0

y = 0.0037 * x + 2.8984E-004
R = 1.0000
DL = 0.01785
BEC = 0.07841

Weight: <None>
Min Conc: <None>

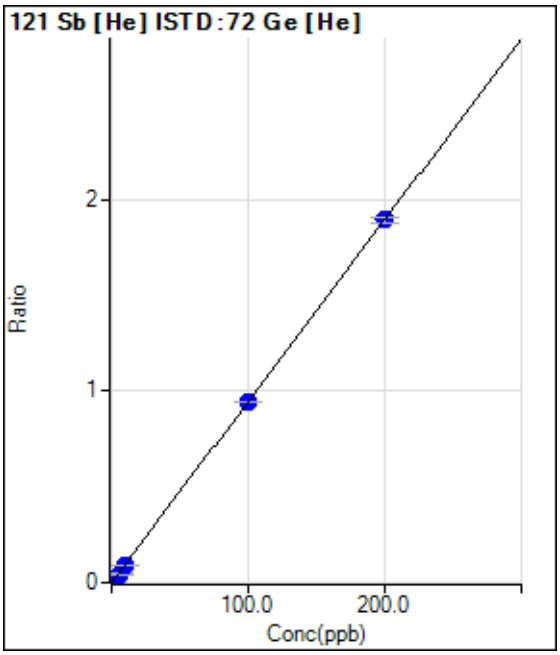


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	146.67	0.0001	P	12.2
2	☐	2.000	1.890	19958.83	0.0116	P	2.3
3	☐	5.000	4.983	50986.23	0.0304	P	3.4
4	☐	10.000	10.145	104380.59	0.0618	P	1.8
5	☐	100.000	100.443	1040496.23	0.6110	M	1.1
6	☐	200.000	199.773	2013115.39	1.2151	A	3.8

y = 0.0061 * x + 8.4782E-005
R = 1.0000
DL = 0.005084
BEC = 0.01394

Weight: <None>
Min Conc: <None>

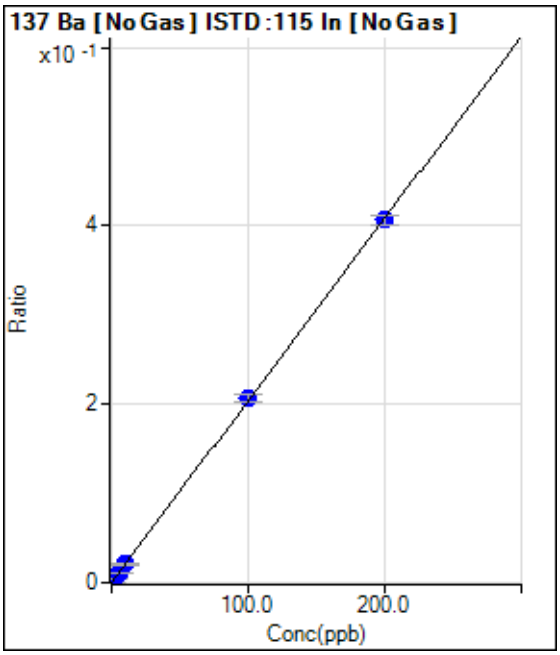
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0001	P	27.3
2	☐	2.000	1.897	6931.96	0.0181	P	4.8
3	☐	5.000	4.726	17104.73	0.0448	P	3.7
4	☐	10.000	9.870	35505.15	0.0934	P	1.7
5	☐	100.000	99.694	359321.71	0.9423	P	1.0
6	☐	200.000	200.167	707294.37	1.8918	P	1.6

y = 0.0095 * x + 1.4739E-004
R = 1.0000
DL = 0.01275
BEC = 0.0156

Weight: <None>
Min Conc: <None>

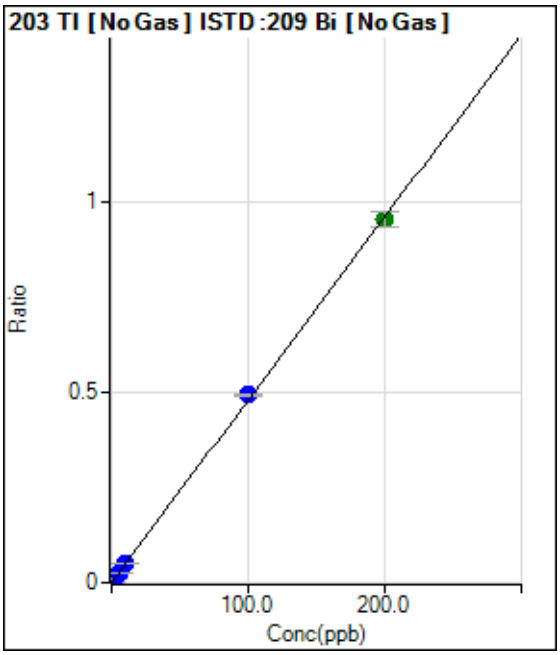


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	233.34	0.0001	P	21.8
2	☐	2.000	1.994	8102.67	0.0042	P	5.4
3	☐	5.000	4.791	19211.18	0.0099	P	3.7
4	☐	10.000	9.982	39065.61	0.0205	P	2.0
5	☐	100.000	101.331	392892.63	0.2068	P	3.9
6	☐	200.000	199.341	747241.58	0.4068	P	2.7

y = 0.0020 * x + 1.2084E-004
R = 1.0000
DL = 0.03869
BEC = 0.05924

Weight: <None>
Min Conc: <None>

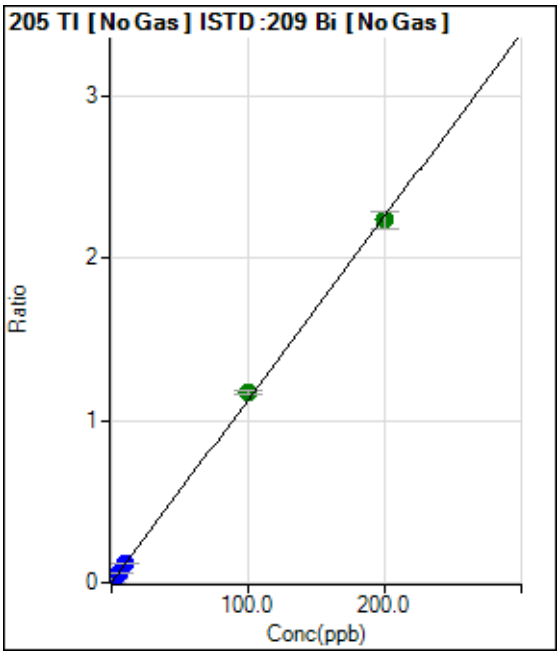
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	280.01	0.0002	P	13.4
2	☐	2.000	2.073	15836.99	0.0101	P	5.2
3	☐	5.000	5.187	39385.65	0.0250	P	5.5
4	☐	10.000	10.583	79197.58	0.0509	P	4.0
5	☐	100.000	102.687	762785.61	0.4925	P	0.9
6	☐	200.000	198.622	1433573.47	0.9525	A	4.3

y = 0.0048 * x + 1.7821E-004
R = 0.9999
DL = 0.01492
BEC = 0.03717

Weight: <None>
Min Conc: <None>

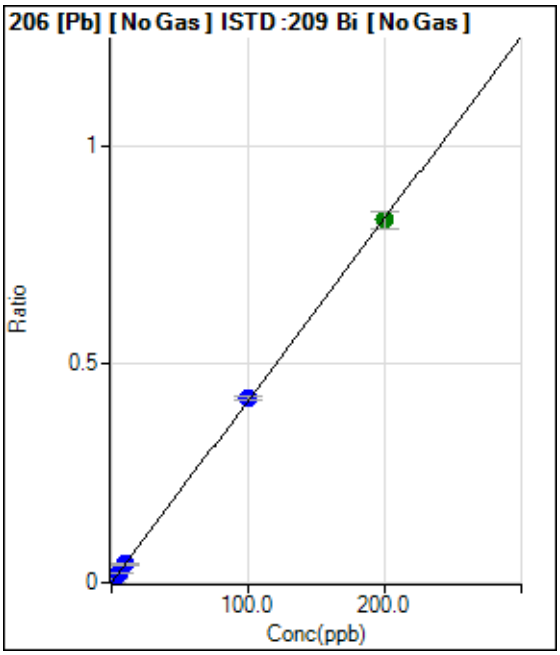


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	820.04	0.0005	P	3.8
2	☐	2.000	2.098	37864.47	0.0242	P	3.6
3	☐	5.000	5.208	93203.67	0.0592	P	3.5
4	☐	10.000	10.713	188692.05	0.1213	P	2.4
5	☐	100.000	103.671	1810829.71	1.1692	A	2.3
6	☐	200.000	198.122	3361316.51	2.2339	A	5.0

y = 0.0113 * x + 5.2370E-004
R = 0.9998
DL = 0.005281
BEC = 0.04646

Weight: <None>
Min Conc: <None>

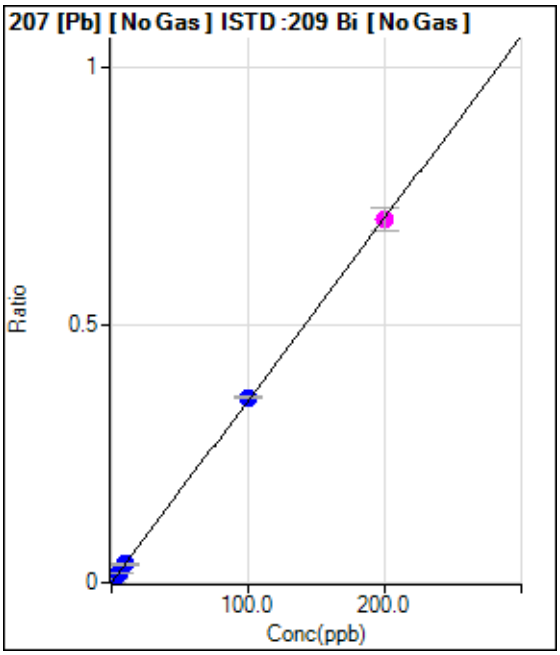
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.67	0.0001	P	19.7
2	☐	2.000	1.947	12876.83	0.0082	P	5.9
3	☐	5.000	4.948	32582.94	0.0207	P	5.9
4	☐	10.000	10.132	65804.17	0.0423	P	3.6
5	☐	100.000	101.434	654322.87	0.4225	P	1.3
6	☐	200.000	199.278	1249290.99	0.8299	A	4.5

y = 0.0042 * x + 1.1915E-004
R = 1.0000
DL = 0.01688
BEC = 0.02861

Weight: <None>
Min Conc: <None>

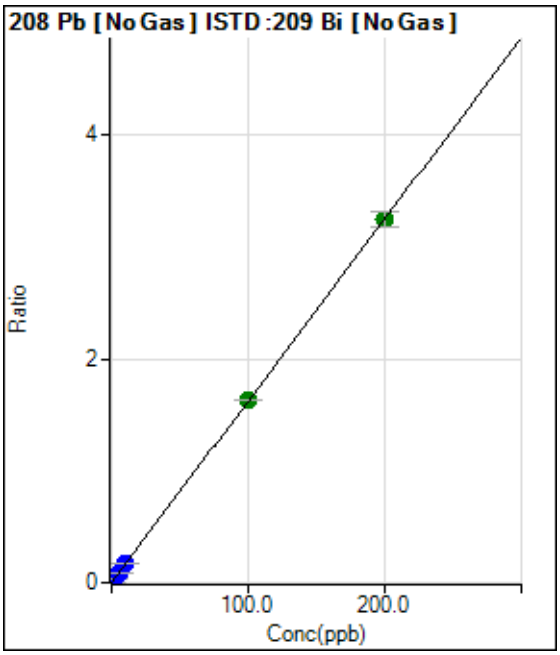


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.67	0.0001	P	9.6
2	☐	2.000	2.025	11398.74	0.0073	P	3.4
3	☐	5.000	5.116	28653.28	0.0182	P	3.9
4	☐	10.000	10.096	55718.25	0.0358	P	2.7
5	☐	100.000	101.775	557497.25	0.3600	P	1.3
6	☐	200.000	199.105	1059100.43	0.7041	M	6.4

y = 0.0035 * x + 1.1909E-004
R = 0.9999
DL = 0.009718
BEC = 0.03368

Weight: <None>
Min Conc: <None>

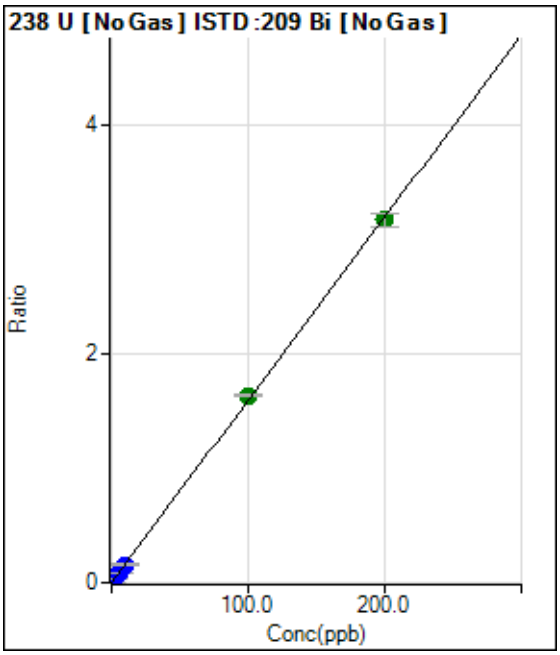
Calibration for 111_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	766.69	0.0005	P	20.0
2	☐	2.000	2.027	52270.75	0.0334	P	3.7
3	☐	5.000	5.042	129493.36	0.0823	P	3.9
4	☐	10.000	10.243	259296.39	0.1667	P	3.4
5	☐	100.000	100.554	2527854.50	1.6322	A	0.7
6	☐	200.000	199.710	4878450.91	3.2412	A	4.3

y = 0.0162 * x + 4.8707E-004
R = 1.0000
DL = 0.01801
BEC = 0.03002

Weight: <None>
Min Conc: <None>

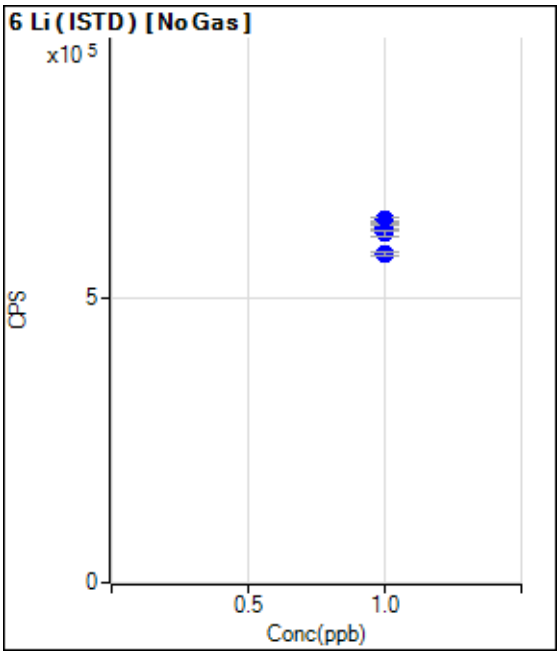


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	190.00	0.0001	P	22.5
2	☐	2.000	1.932	48533.35	0.0310	P	3.2
3	☐	5.000	4.854	122216.65	0.0777	P	4.4
4	☐	10.000	9.970	248023.44	0.1594	P	2.7
5	☐	100.000	102.641	2540175.22	1.6403	A	0.7
6	☐	200.000	198.686	4779568.47	3.1750	A	3.6

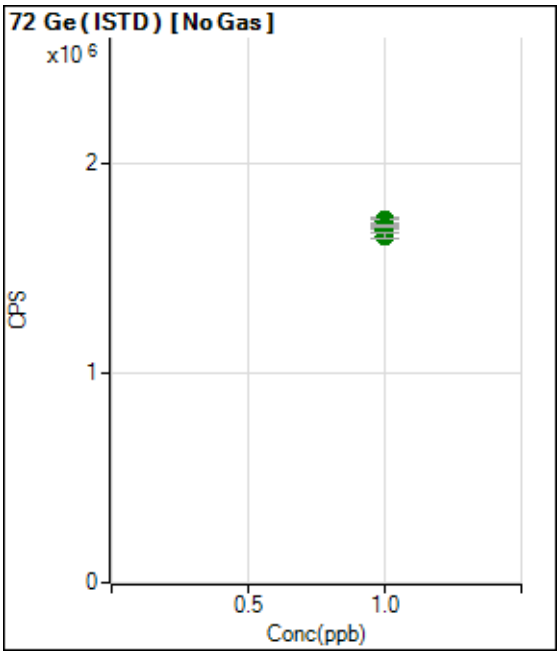
y = 0.0160 * x + 1.2194E-004
R = 0.9999
DL = 0.005149
BEC = 0.007631

Weight: <None>
Min Conc: <None>

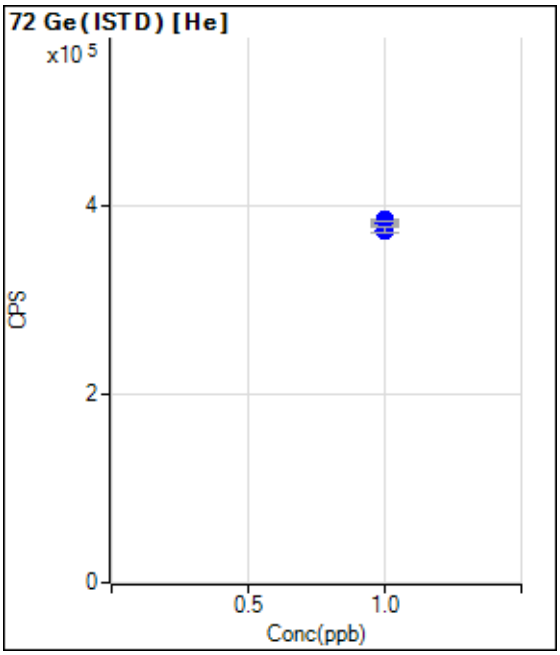
Calibration for 111_ICV.d



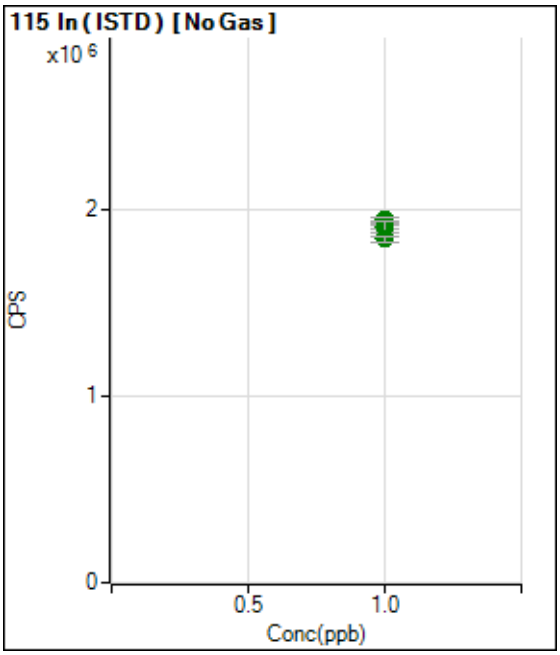
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		638503.45		P	1.0
2	☐	1.000		632722.82		P	0.2
3	☐	1.000		627544.30		P	1.3
4	☐	1.000		623060.58		P	1.5
5	☐	1.000		615863.70		P	1.6
6	☐	1.000		578694.91		P	1.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1732455.55		A	1.8
2	☐	1.000		1723610.81		A	1.6
3	☐	1.000		1678009.19		A	1.2
4	☐	1.000		1689773.31		A	2.7
5	☐	1.000		1703001.95		A	0.9
6	☐	1.000		1657332.89		A	1.6

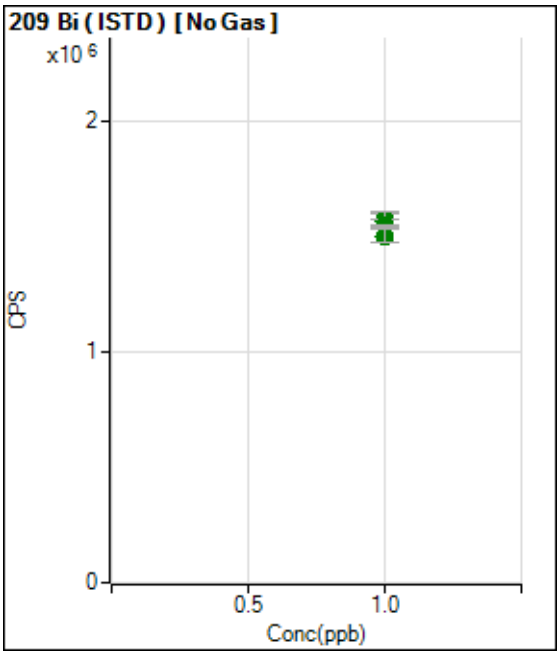


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		384678.37		P	0.5
2	☐	1.000		383492.91		P	0.4
3	☐	1.000		381662.00		P	0.7
4	☐	1.000		380016.05		P	0.5
5	☐	1.000		381335.58		P	0.7
6	☐	1.000		373924.46		P	1.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1932616.76		A	0.6
2	☐	1.000		1936022.95		A	2.1
3	☐	1.000		1941971.51		A	1.0
4	☐	1.000		1907506.20		A	1.7
5	☐	1.000		1901290.95		A	3.4
6	☐	1.000		1837687.88		A	1.9

Calibration for 111_ICV.d



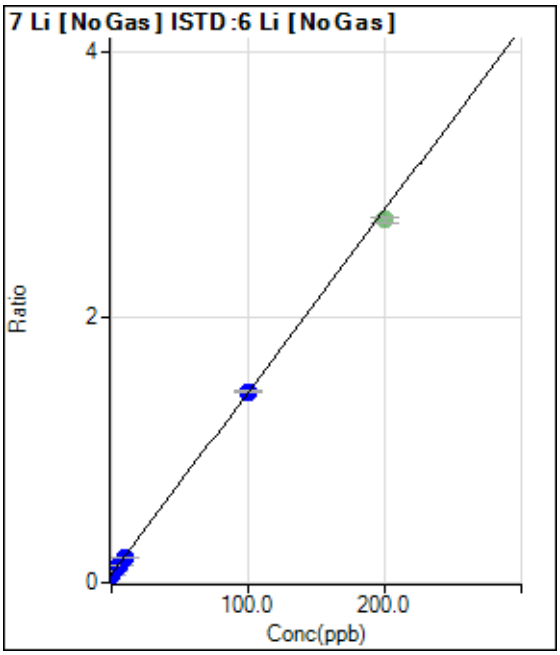
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1566956.23		A	4.1
2	☐	1.000		1567387.22		A	4.0
3	☐	1.000		1575091.17		A	4.6
4	☐	1.000		1556356.12		A	2.5
5	☐	1.000		1548693.94		A	0.9
6	☐	1.000		1506868.26		A	4.3

Calibration for 022_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\082923A.b\
Analysis File: 082923A.batch.bin
DA Date-Time: 8/29/2023 11:05:50 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	015CALB.d	CAL BLK	8/29/2023 11:06:46 AM
2	016CALS.d	2/10/200	8/29/2023 11:08:43 AM
3	017CALS.d	5/25/500	8/29/2023 11:10:41 AM
4	018CALS.d	10/50/100	8/29/2023 11:12:37 AM
5	019CALS.d	100/500/10K	8/29/2023 11:14:34 AM
6	020CALS.d	200/1000/20K	8/29/2023 11:16:28 AM

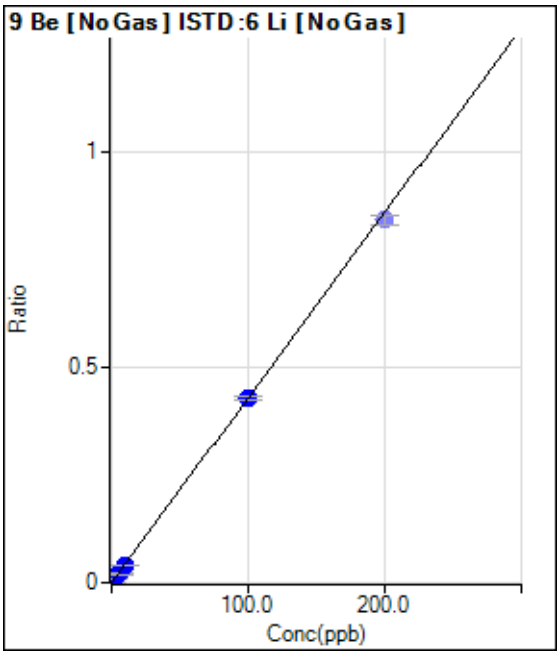
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31398.34	0.0625	P	1.0
2	☐	2.000	1.813	44304.41	0.0874	P	1.0
3	☐	5.000	4.751	65176.98	0.1276	P	1.5
4	☐	10.000	9.462	97849.57	0.1922	P	1.9
5	☐	100.000	100.070	714789.39	1.4344	P	0.8
6	☑	200.000		1329383.37	2.7301	A	1.7

y = 0.0137 * x + 0.0625
R = 1.0000
DL = 0.1349
BEC = 4.559

Weight: <None>
Min Conc: <None>

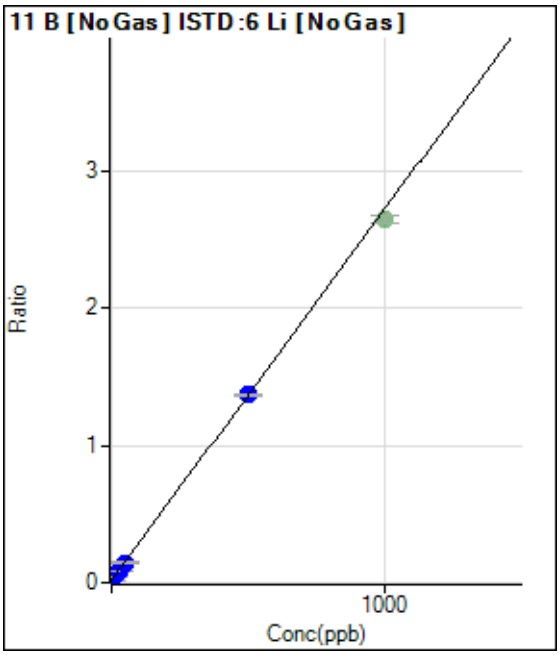


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.33	0.0001	P	53.7
2	☐	2.000	1.986	4360.72	0.0086	P	0.9
3	☐	5.000	4.762	10485.64	0.0205	P	4.5
4	☐	10.000	9.638	21127.63	0.0415	P	3.6
5	☐	100.000	100.048	214496.21	0.4304	P	1.8
6	☑	200.000		410947.69	0.8441	P	2.9

y = 0.0043 * x + 5.6294E-005
R = 1.0000
DL = 0.02108
BEC = 0.01309

Weight: <None>
Min Conc: <None>

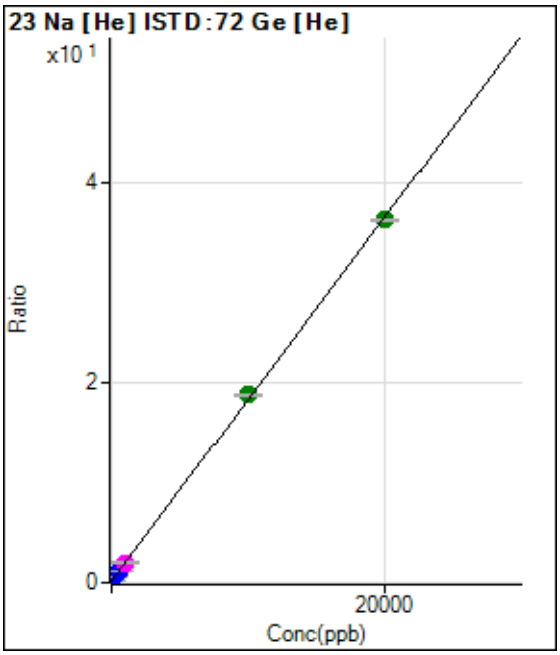
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7943.98	0.0158	P	2.4
2	☐	10.000	9.657	21272.87	0.0419	P	2.4
3	☐	25.000	23.832	41003.21	0.0803	P	3.2
4	☐	50.000	48.509	74866.96	0.1471	P	2.3
5	☐	500.000	500.214	682387.86	1.3694	P	0.8
6	☑	1000.000		1287830.66	2.6452	A	2.1

y = 0.0027 * x + 0.0158
R = 1.0000
DL = 0.4162
BEC = 5.845

Weight: <None>
Min Conc: <None>

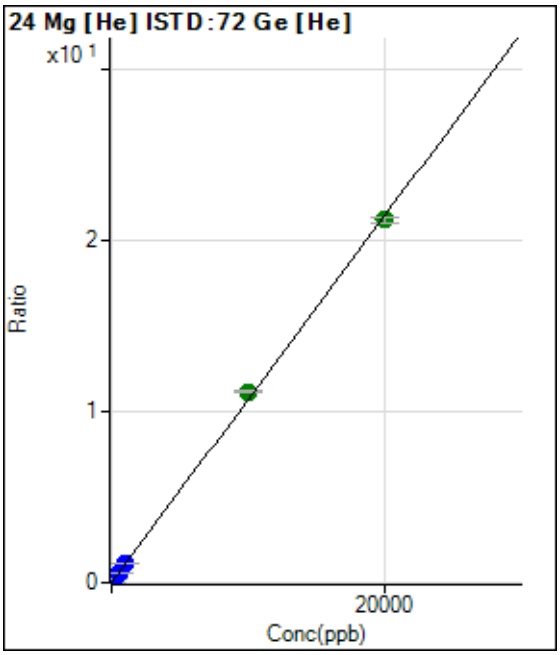


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61723.16	0.1617	P	3.0
2	☐	200.000	215.341	209580.95	0.5522	P	0.4
3	☐	500.000	536.342	435468.18	1.1342	P	2.7
4	☐	1000.000	1021.343	771562.62	2.0136	M	4.4
5	☐	10000.000	10239.131	7105918.65	18.7270	A	0.5
6	☐	20000.000	19878.305	13526132.72	36.2045	A	0.6

y = 0.0018 * x + 0.1617
R = 0.9999
DL = 8.059
BEC = 89.2

Weight: <None>
Min Conc: <None>

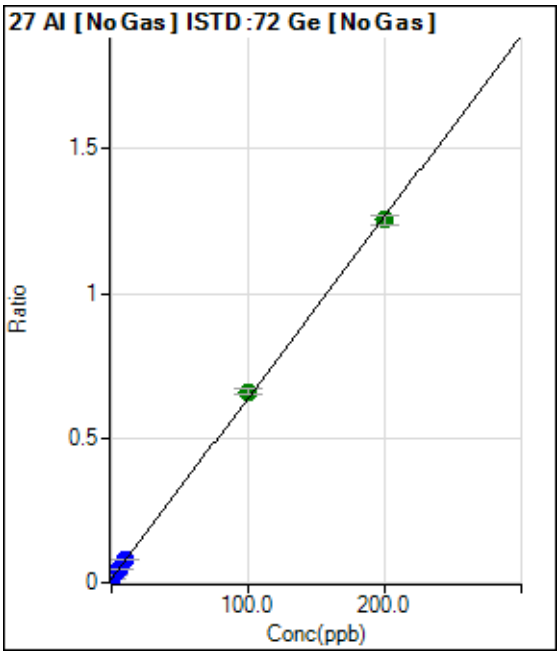
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	513.35	0.0013	P	23.2
2	☐	200.000	215.085	87980.01	0.2318	P	0.6
3	☐	500.000	533.969	220212.21	0.5735	P	1.7
4	☐	1000.000	1091.744	448820.41	1.1711	P	0.8
5	☐	10000.000	10406.493	4230977.65	11.1514	A	1.4
6	☐	20000.000	19791.166	7922621.55	21.2067	A	1.3

y = 0.0011 * x + 0.0013
R = 0.9997
DL = 0.8738
BEC = 1.254

Weight: <None>
Min Conc: <None>

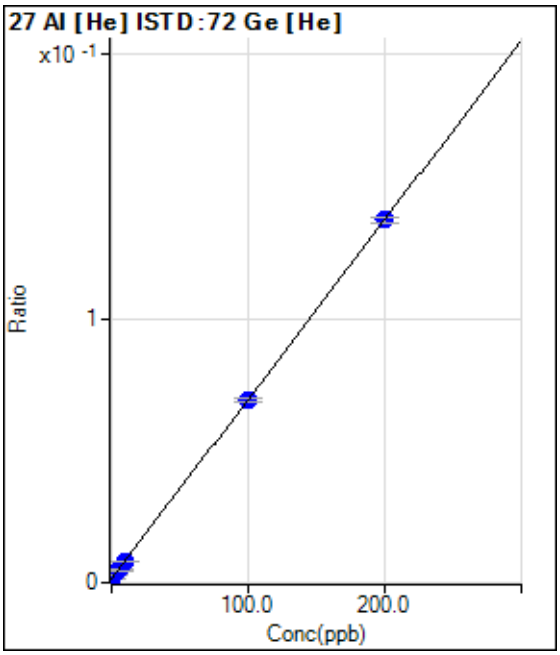


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20795.87	0.0124	P	4.1
2	☐	2.000	2.393	46150.35	0.0274	P	2.5
3	☐	5.000	5.162	75494.66	0.0448	P	1.3
4	☐	10.000	10.462	129876.01	0.0779	P	0.3
5	☐	100.000	103.428	1107173.08	0.6601	A	2.7
6	☐	200.000	198.255	2068737.16	1.2539	A	2.4

y = 0.0063 * x + 0.0124
R = 0.9998
DL = 0.2462
BEC = 1.986

Weight: <None>
Min Conc: <None>

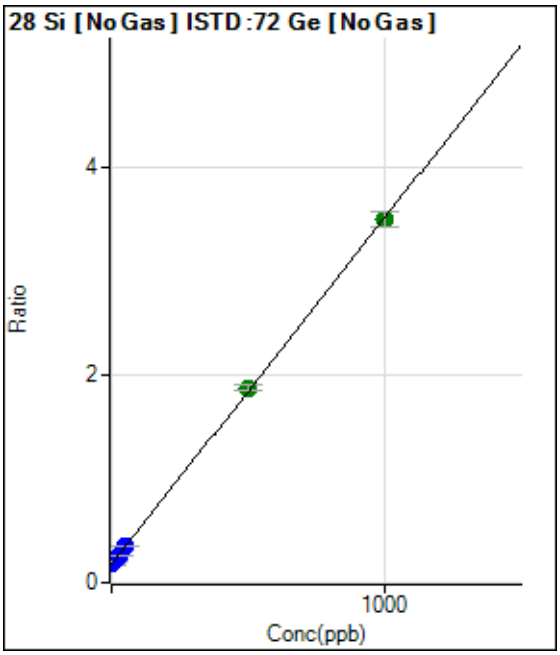
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	566.69	0.0015	P	10.4
2	☐	2.000	2.064	1096.73	0.0029	P	7.1
3	☐	5.000	4.923	1850.16	0.0048	P	16.4
4	☐	10.000	9.675	3087.07	0.0081	P	7.1
5	☐	100.000	99.886	26308.50	0.0693	P	1.8
6	☐	200.000	200.075	51318.30	0.1374	P	1.9

y = 6.7919E-004 * x + 0.0015
R = 1.0000
DL = 0.6845
BEC = 2.188

Weight: <None>
Min Conc: <None>

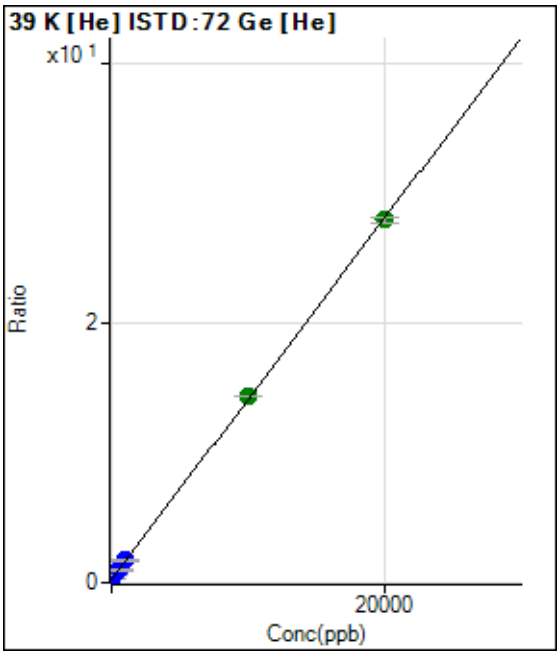


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	296202.39	0.1771	P	2.5
2	☐	10.000	9.921	353771.39	0.2102	P	0.3
3	☐	25.000	25.821	444047.93	0.2633	P	1.3
4	☐	50.000	53.255	591175.81	0.3548	P	0.8
5	☐	500.000	510.394	3152292.87	1.8800	A	3.1
6	☐	1000.000	994.621	5767206.79	3.4956	A	4.4

y = 0.0033 * x + 0.1771
R = 0.9999
DL = 3.915
BEC = 53.09

Weight: <None>
Min Conc: <None>

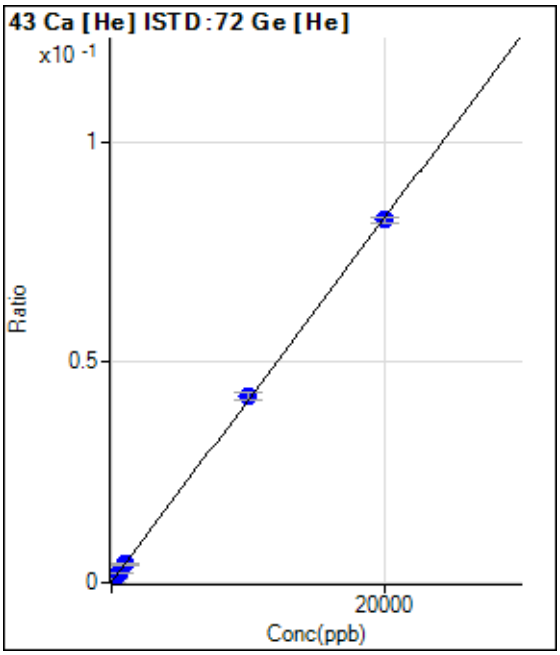
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	92810.18	0.2432	P	1.8
2	☐	200.000	207.757	201836.44	0.5318	P	0.5
3	☐	500.000	519.536	370445.10	0.9649	P	2.9
4	☐	1000.000	1050.056	652173.82	1.7018	P	1.8
5	☐	10000.000	10155.504	5444927.00	14.3498	A	1.0
6	☐	20000.000	19919.179	10427487.55	27.9122	A	1.5

y = 0.0014 * x + 0.2432
R = 1.0000
DL = 9.586
BEC = 175.1

Weight: <None>
Min Conc: <None>

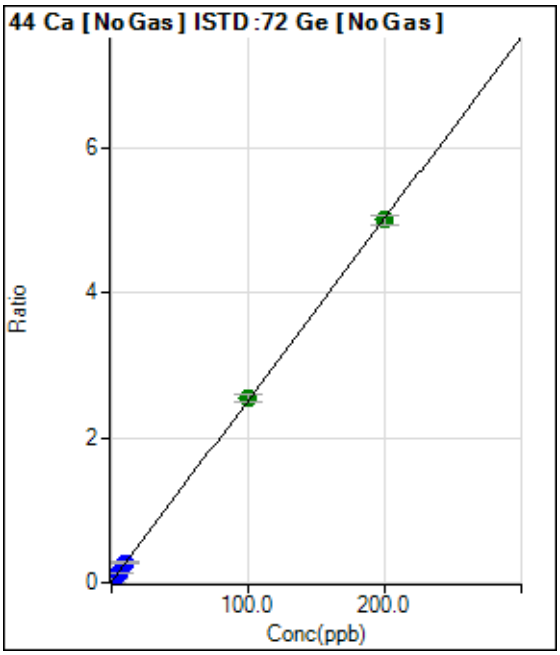


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	92.8
2	☐	200.000	200.121	356.68	0.0009	P	14.1
3	☐	500.000	516.989	863.38	0.0023	P	12.5
4	☐	1000.000	1006.355	1636.80	0.0043	P	12.3
5	☐	10000.000	10208.885	16062.98	0.0423	P	3.8
6	☐	20000.000	19894.814	30771.55	0.0824	P	1.7

y = 4.1347E-006 * x + 1.1256E-004
R = 0.9999
DL = 75.81
BEC = 27.22

Weight: <None>
Min Conc: <None>

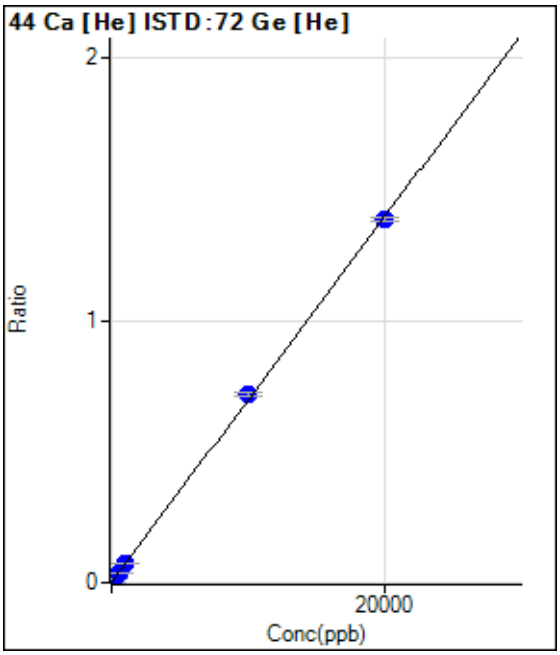
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20755.93	0.0124	P	1.3
2	☐	2.000	2.091	108992.80	0.0648	P	1.5
3	☐	5.000	5.198	240479.23	0.1426	P	2.2
4	☐	10.000	10.619	463803.91	0.2784	P	1.3
5	☐	100.000	101.306	4275016.71	2.5497	A	3.5
6	☐	200.000	199.310	8256016.34	5.0042	A	2.8

y = 0.0250 * x + 0.0124
R = 1.0000
DL = 0.0195
BEC = 0.4954

Weight: <None>
Min Conc: <None>

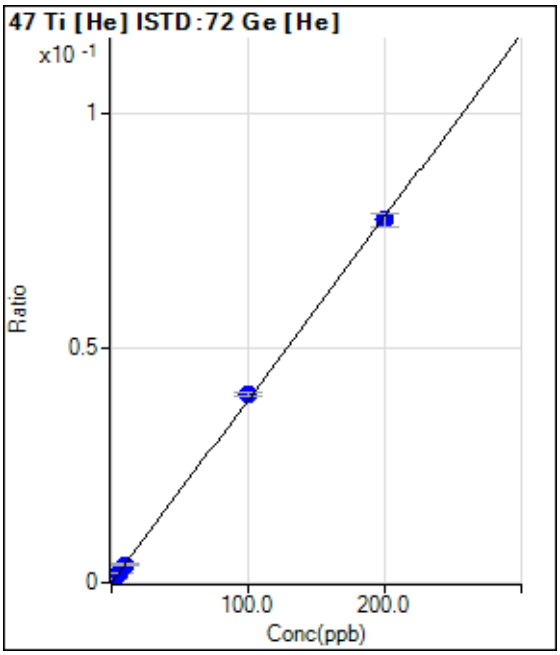


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	406.68	0.0011	P	13.1
2	☐	200.000	209.299	5938.07	0.0156	P	4.7
3	☐	500.000	502.421	13837.16	0.0361	P	6.3
4	☐	1000.000	1001.757	27147.19	0.0708	P	2.6
5	☐	10000.000	10310.349	272863.86	0.7192	P	1.9
6	☐	20000.000	19844.584	516761.24	1.3833	P	1.1

y = 6.9652E-005 * x + 0.0011
R = 0.9998
DL = 5.994
BEC = 15.3

Weight: <None>
Min Conc: <None>

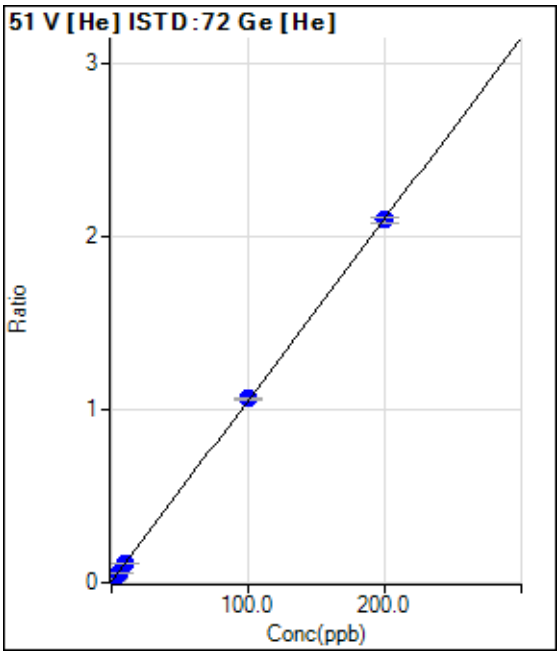
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	2.000	1.758	260.01	0.0007	P	19.0
3	☐	5.000	4.977	743.36	0.0019	P	7.7
4	☐	10.000	9.680	1443.44	0.0038	P	8.3
5	☐	100.000	103.211	15242.02	0.0402	P	1.7
6	☐	200.000	198.413	28847.29	0.0772	P	4.0

y = 3.8922E-004 * x + 0.0000E+000
R = 0.9998
DL = 0
BEC = 0

Weight: <None>
Min Conc: <None>

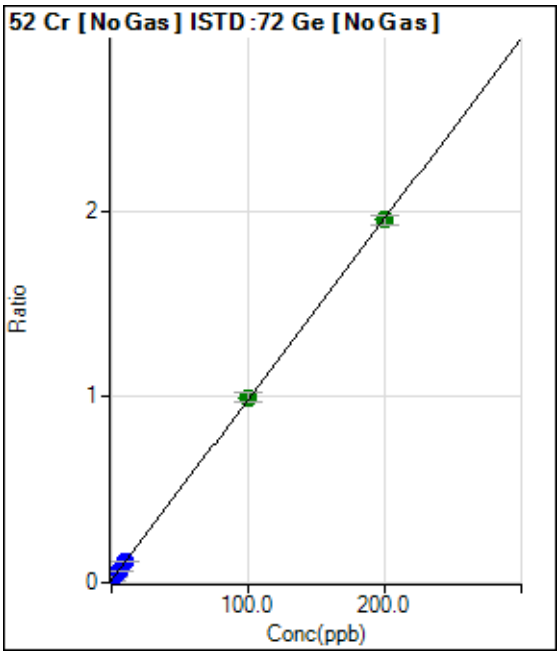


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2382.44	0.0062	P	5.1
2	☐	2.000	1.993	10303.92	0.0271	P	2.2
3	☐	5.000	4.803	21741.72	0.0566	P	2.6
4	☐	10.000	9.984	42533.56	0.1110	P	0.8
5	☐	100.000	100.818	403675.85	1.0639	P	0.7
6	☐	200.000	199.597	784554.95	2.1002	P	1.5

y = 0.0105 * x + 0.0062
R = 1.0000
DL = 0.09077
BEC = 0.5947

Weight: <None>
Min Conc: <None>

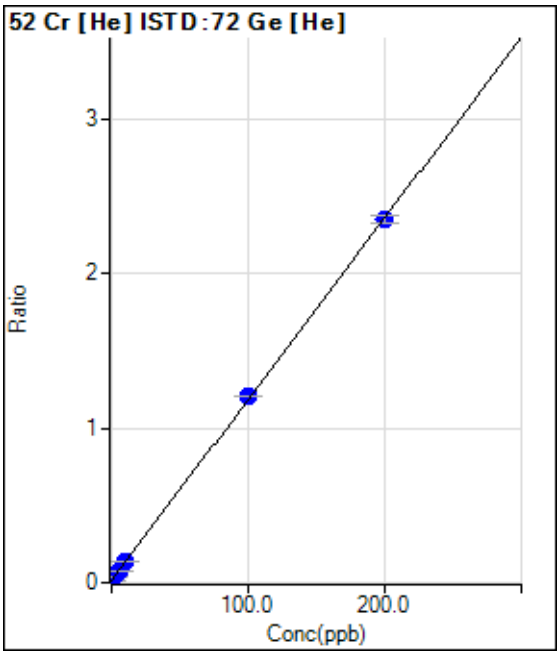
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23810.91	0.0142	P	0.9
2	☐	2.000	1.953	55887.79	0.0332	P	0.7
3	☐	5.000	5.059	106925.67	0.0634	P	2.4
4	☐	10.000	10.101	187278.43	0.1124	P	1.1
5	☐	100.000	101.198	1672511.69	0.9977	A	4.5
6	☐	200.000	199.395	3220672.76	1.9521	A	2.4

y = 0.0097 * x + 0.0142
R = 1.0000
DL = 0.03803
BEC = 1.465

Weight: <None>
Min Conc: <None>

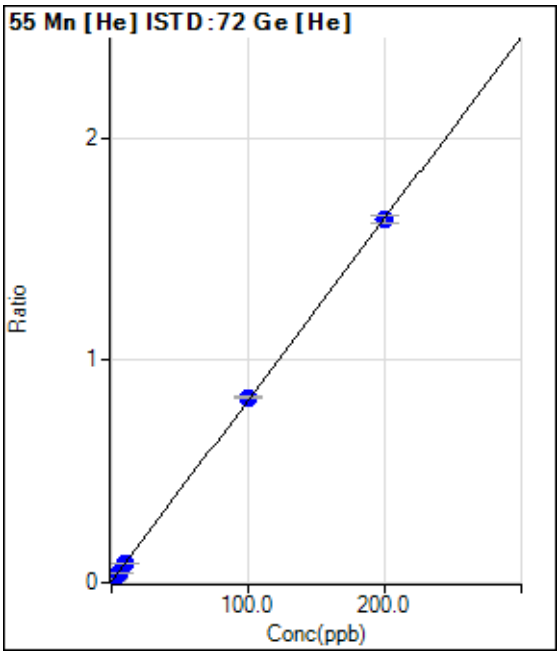


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5514.55	0.0144	P	4.6
2	☐	2.000	2.149	15035.13	0.0396	P	0.8
3	☐	5.000	4.933	27725.15	0.0722	P	3.4
4	☐	10.000	10.119	50951.65	0.1329	P	1.4
5	☐	100.000	101.686	457304.78	1.2052	P	0.3
6	☐	200.000	199.151	876550.59	2.3466	P	2.2

y = 0.0117 * x + 0.0144
R = 0.9999
DL = 0.1703
BEC = 1.233

Weight: <None>
Min Conc: <None>

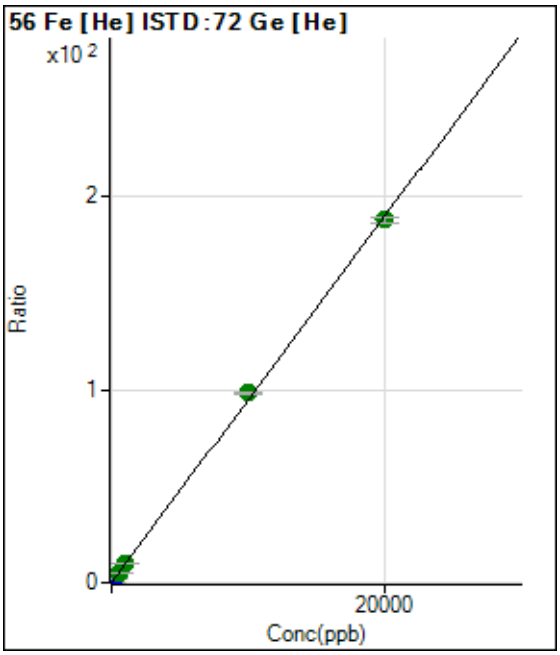
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1846.83	0.0048	P	8.3
2	☐	2.000	1.994	8015.84	0.0211	P	5.3
3	☐	5.000	4.823	16984.12	0.0442	P	2.2
4	☐	10.000	10.198	33775.41	0.0881	P	0.1
5	☐	100.000	101.497	316373.85	0.8338	P	0.5
6	☐	200.000	199.246	609671.83	1.6321	P	2.0

y = 0.0082 * x + 0.0048
R = 1.0000
DL = 0.1477
BEC = 0.5926

Weight: <None>
Min Conc: <None>

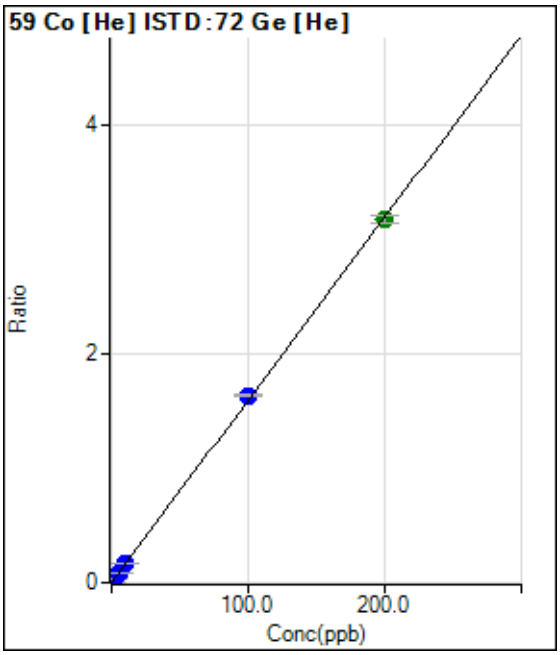


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15472.47	0.0405	P	1.6
2	☐	200.000	208.709	767193.95	2.0212	P	1.2
3	☐	500.000	523.449	1923565.02	5.0082	A	2.9
4	☐	1000.000	1032.761	3771745.05	9.8417	A	1.7
5	☐	10000.000	10349.118	37283651.11	98.2562	A	0.4
6	☐	20000.000	19823.130	70292453.95	188.1670	A	1.5

y = 0.0095 * x + 0.0405
R = 0.9998
DL = 0.2024
BEC = 4.271

Weight: <None>
Min Conc: <None>

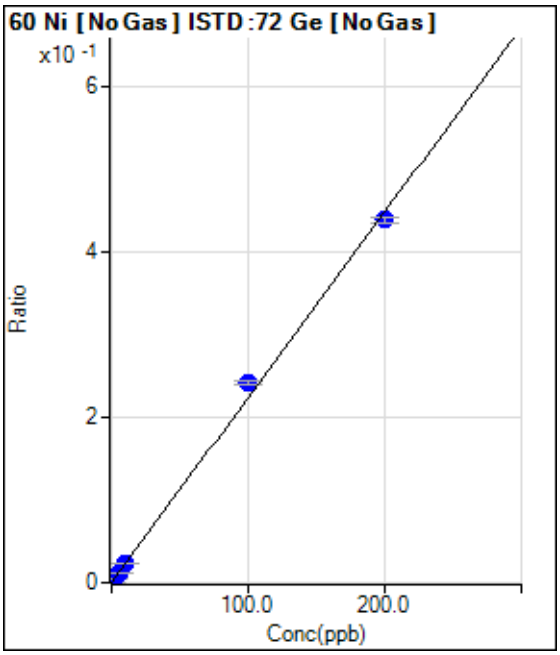
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.34	0.0009	P	14.4
2	☐	2.000	2.015	12545.95	0.0331	P	3.8
3	☐	5.000	5.019	31116.01	0.0810	P	1.1
4	☐	10.000	10.307	63421.04	0.1655	P	1.5
5	☐	100.000	102.450	621191.84	1.6370	P	0.7
6	☐	200.000	198.759	1186103.26	3.1751	A	2.0

y = 0.0160 * x + 8.7395E-004
R = 0.9999
DL = 0.02358
BEC = 0.05472

Weight: <None>
Min Conc: <None>

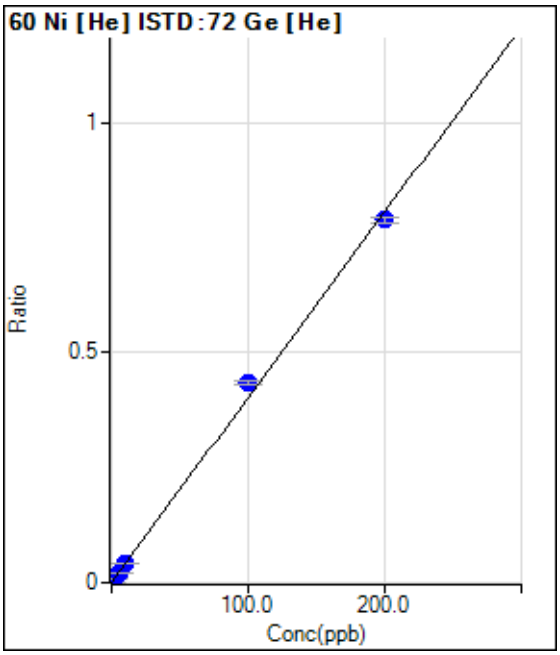


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	336.68	0.0002	P	1.4
2	☐	2.000	2.078	8169.24	0.0049	P	1.8
3	☐	5.000	5.070	19490.92	0.0116	P	1.2
4	☐	10.000	10.557	39728.22	0.0238	P	1.1
5	☐	100.000	108.079	406256.71	0.2423	P	2.7
6	☐	200.000	195.930	724402.02	0.4390	P	1.7

y = 0.0022 * x + 2.0132E-004
R = 0.9988
DL = 0.003787
BEC = 0.08989

Weight: <None>
Min Conc: <None>

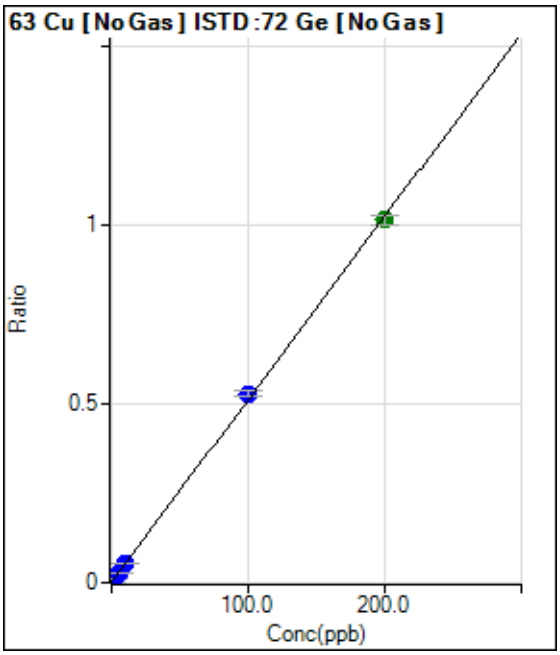
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0004	P	29.2
2	☐	2.000	1.979	3160.41	0.0083	P	2.7
3	☐	5.000	5.170	8125.92	0.0212	P	2.5
4	☐	10.000	10.249	15929.61	0.0416	P	3.4
5	☐	100.000	108.201	165216.18	0.4354	P	2.1
6	☐	200.000	195.883	294319.40	0.7879	P	1.6

y = 0.0040 * x + 3.6740E-004
R = 0.9988
DL = 0.07999
BEC = 0.09139

Weight: <None>
Min Conc: <None>

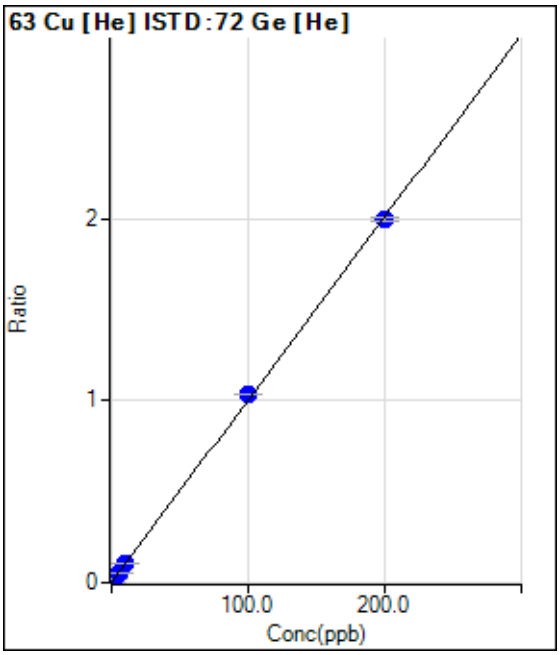


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1433.43	0.0009	P	0.7
2	☐	2.000	2.038	18956.78	0.0113	P	1.9
3	☐	5.000	5.159	45874.31	0.0272	P	2.3
4	☐	10.000	10.429	90151.51	0.0541	P	2.3
5	☐	100.000	103.411	886838.66	0.5289	P	2.9
6	☐	200.000	198.269	1671720.86	1.0133	A	2.5

y = 0.0051 * x + 8.5704E-004
R = 0.9998
DL = 0.003447
BEC = 0.1678

Weight: <None>
Min Conc: <None>

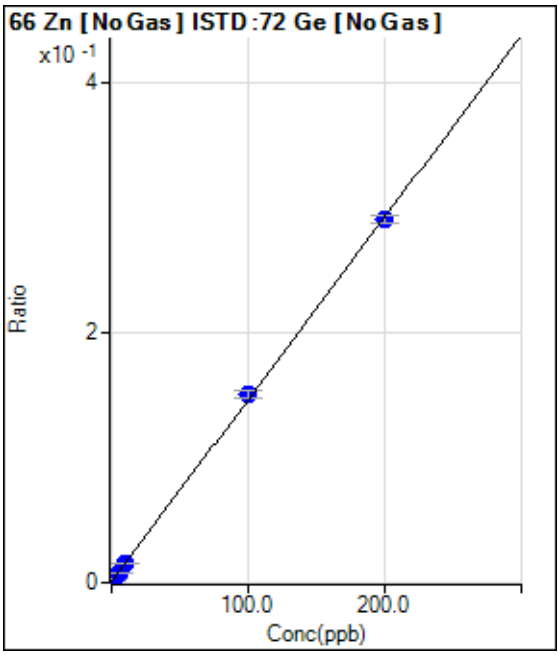
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	593.36	0.0016	P	7.8
2	☐	2.000	2.096	8572.84	0.0226	P	3.5
3	☐	5.000	5.081	20168.51	0.0525	P	2.7
4	☐	10.000	10.228	39918.94	0.1042	P	2.3
5	☐	100.000	102.851	392077.82	1.0333	P	0.6
6	☐	200.000	198.560	744678.12	1.9934	P	1.2

y = 0.0100 * x + 0.0016
R = 0.9999
DL = 0.03631
BEC = 0.1551

Weight: <None>
Min Conc: <None>

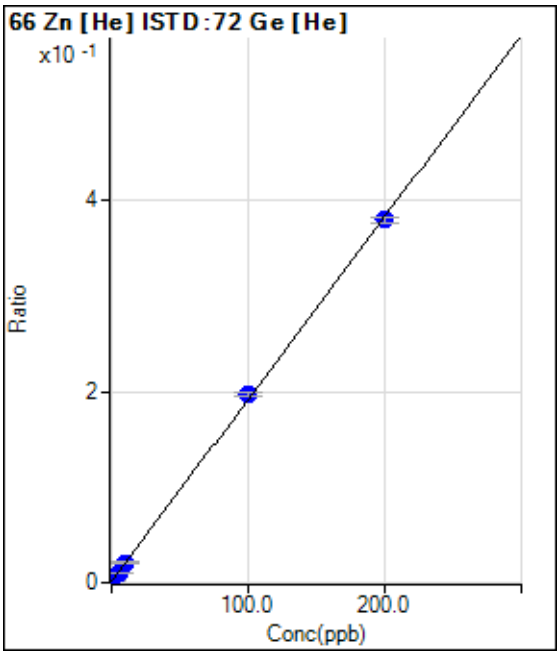


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1340.10	0.0008	P	3.4
2	☐	2.000	2.084	6464.99	0.0038	P	3.3
3	☐	5.000	4.905	13423.58	0.0080	P	2.7
4	☐	10.000	9.866	25313.84	0.0152	P	2.4
5	☐	100.000	102.679	252458.28	0.1506	P	3.9
6	☐	200.000	198.669	479503.51	0.2906	P	2.0

y = 0.0015 * x + 8.0133E-004
R = 0.9999
DL = 0.05528
BEC = 0.5493

Weight: <None>
Min Conc: <None>

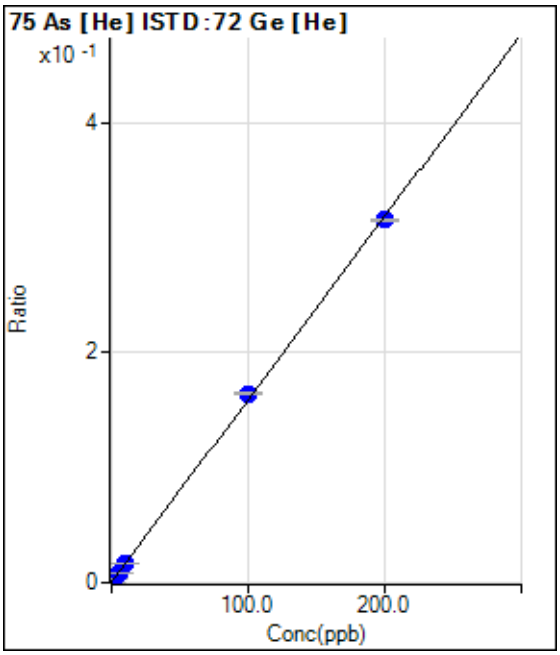
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	453.35	0.0012	P	22.8
2	☐	2.000	2.148	2006.85	0.0053	P	8.7
3	☐	5.000	4.815	3980.64	0.0104	P	3.0
4	☐	10.000	10.351	8015.84	0.0209	P	2.2
5	☐	100.000	102.966	74907.15	0.1974	P	1.6
6	☐	200.000	198.502	141802.68	0.3795	P	1.9

y = 0.0019 * x + 0.0012
R = 0.9998
DL = 0.4272
BEC = 0.6245

Weight: <None>
Min Conc: <None>

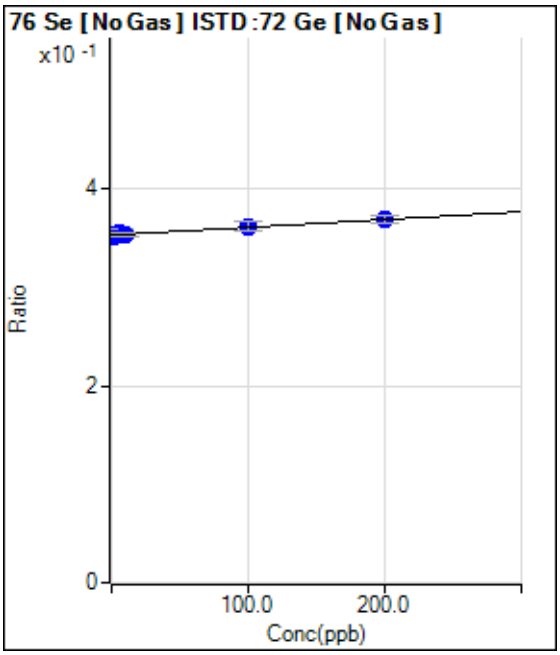


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0004	P	8.1
2	☐	2.000	1.922	1294.51	0.0034	P	2.7
3	☐	5.000	4.845	3090.37	0.0081	P	5.9
4	☐	10.000	10.116	6294.84	0.0164	P	1.7
5	☐	100.000	103.408	62457.16	0.1646	P	0.9
6	☐	200.000	198.295	117805.41	0.3153	P	0.4

y = 0.0016 * x + 3.5790E-004
R = 0.9998
DL = 0.05446
BEC = 0.2253

Weight: <None>
Min Conc: <None>

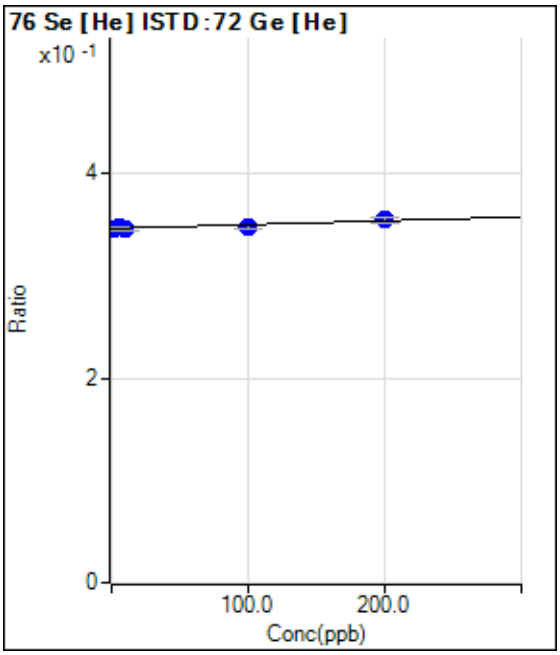
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	590430.42	0.3530	P	0.9
2	☐	2.000	-12.556	592397.88	0.3520	P	0.6
3	☐	5.000	38.698	600543.52	0.3561	P	1.9
4	☐	10.000	7.834	589249.60	0.3537	P	1.0
5	☐	100.000	109.738	606617.14	0.3617	P	2.5
6	☐	200.000	194.542	607910.41	0.3684	P	2.2

y = 7.9187E-005 * x + 0.3530
R = 0.9788
DL = 119.5
BEC = 4458

Weight: <None>
Min Conc: <None>

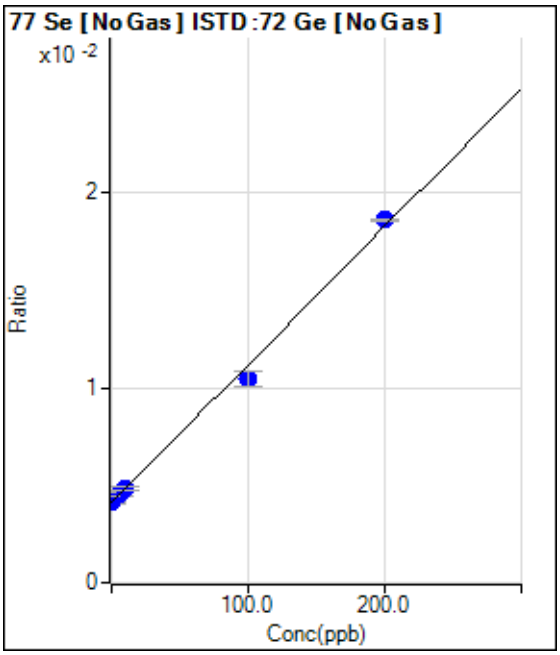


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	132281.93	0.3467	P	3.1
2	☐	2.000	-19.549	131281.57	0.3459	P	0.9
3	☐	5.000	22.197	133461.60	0.3475	P	0.7
4	☐	10.000	-16.696	132608.58	0.3460	P	1.2
5	☐	100.000	59.862	132382.12	0.3489	P	1.1
6	☐	200.000	221.189	132607.70	0.3550	P	1.8

y = 3.7662E-005 * x + 0.3467
R = 0.9646
DL = 862.6
BEC = 9204

Weight: <None>
Min Conc: <None>

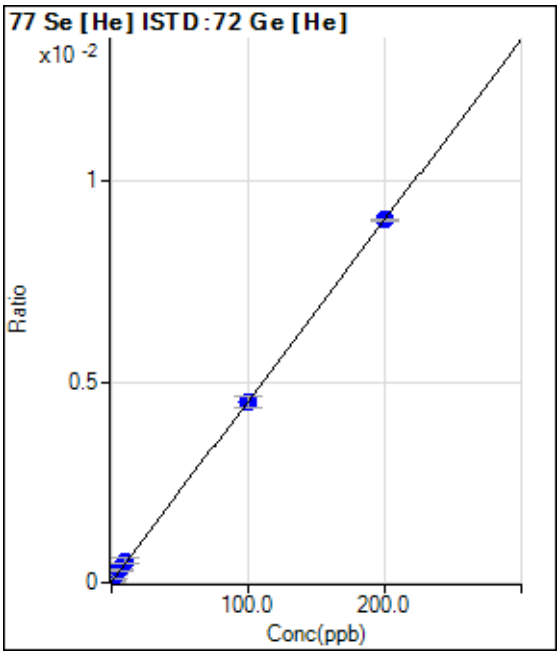
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6845.19	0.0041	P	2.2
2	☐	2.000	3.889	7348.80	0.0044	P	0.3
3	☐	5.000	6.388	7665.65	0.0045	P	5.9
4	☐	10.000	10.442	8049.23	0.0048	P	4.0
5	☐	100.000	90.336	17578.43	0.0105	P	7.6
6	☐	200.000	204.756	30691.99	0.0186	P	0.5

y = 7.0852E-005 * x + 0.0041
R = 0.9982
DL = 3.883
BEC = 57.75

Weight: <None>
Min Conc: <None>

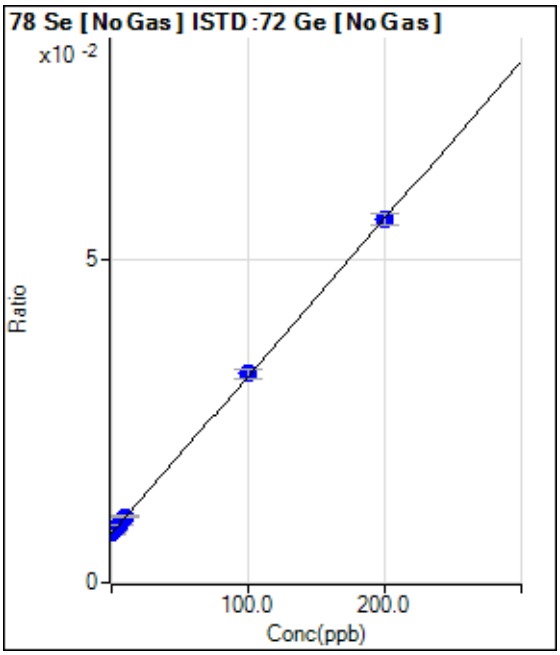


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	2.000	2.542	50.00	0.0001	P	60.0
3	☐	5.000	6.569	120.00	0.0003	P	23.7
4	☐	10.000	11.598	206.67	0.0005	P	29.7
5	☐	100.000	99.326	1703.47	0.0045	P	6.7
6	☐	200.000	200.212	3373.81	0.0090	P	0.2

y = 4.5016E-005 * x + 1.7599E-005
R = 1.0000
DL = 1.016
BEC = 0.3909

Weight: <None>
Min Conc: <None>

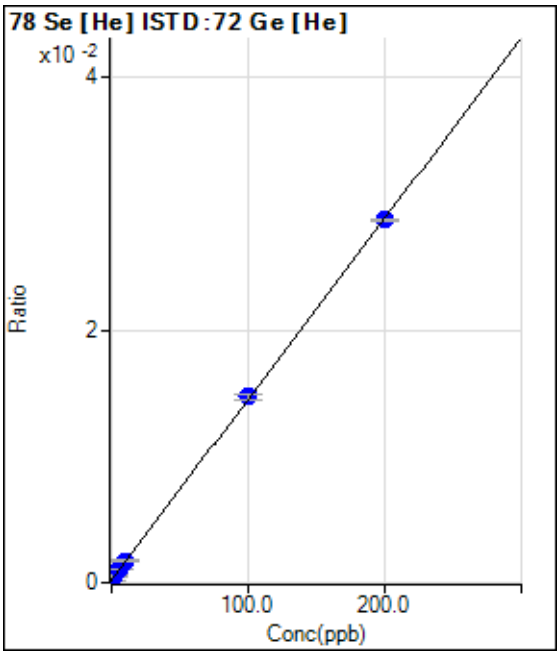
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12759.59	0.0076	P	4.6
2	☐	2.000	2.246	13763.98	0.0082	P	2.1
3	☐	5.000	5.609	15182.08	0.0090	P	1.5
4	☐	10.000	10.719	17074.35	0.0102	P	1.6
5	☐	100.000	101.441	54323.02	0.0324	P	4.2
6	☐	200.000	199.226	92842.46	0.0563	P	3.1

y = 2.4416E-004 * x + 0.0076
R = 1.0000
DL = 4.359
BEC = 31.25

Weight: <None>
Min Conc: <None>

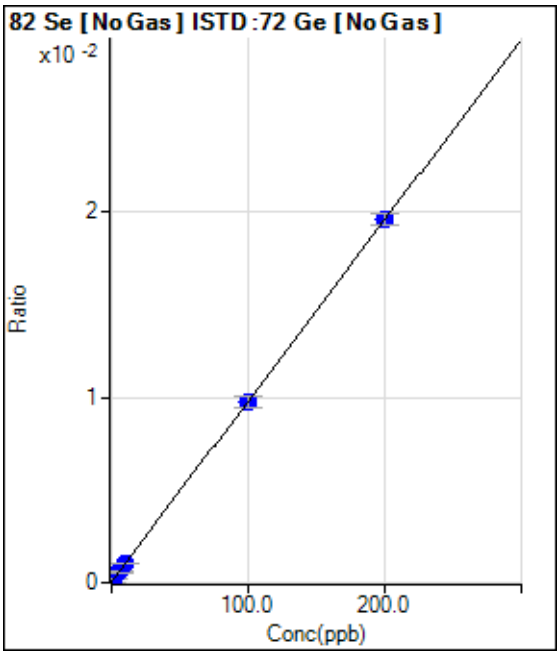


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.67	0.0002	P	15.4
2	☐	2.000	2.184	198.67	0.0005	P	12.3
3	☐	5.000	5.721	395.34	0.0010	P	4.0
4	☐	10.000	10.682	666.02	0.0017	P	3.8
5	☐	100.000	101.265	5572.51	0.0147	P	3.3
6	☐	200.000	199.314	10720.29	0.0287	P	0.9

y = 1.4291E-004 * x + 2.1103E-004
R = 1.0000
DL = 0.6828
BEC = 1.477

Weight: <None>
Min Conc: <None>

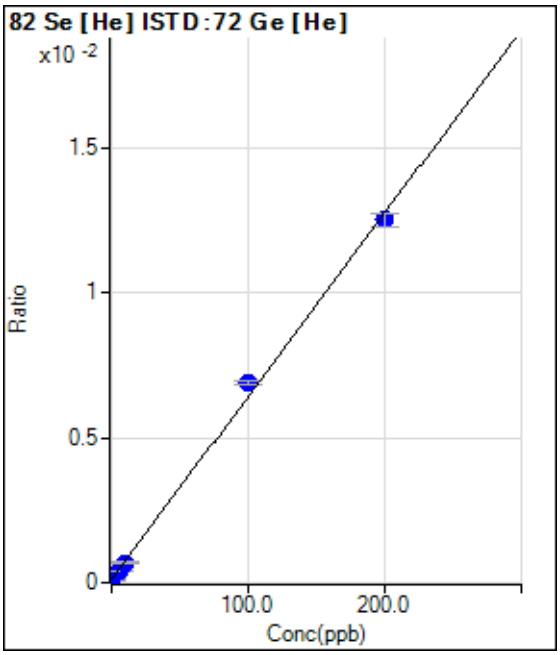
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.87	0.0000	P	13.4
2	☐	2.000	1.441	311.67	0.0002	P	16.0
3	☐	5.000	5.532	985.21	0.0006	P	12.8
4	☐	10.000	10.154	1725.31	0.0010	P	0.4
5	☐	100.000	99.494	16348.44	0.0098	P	5.9
6	☐	200.000	200.238	32307.67	0.0196	P	3.2

y = 9.7576E-005 * x + 4.4674E-005
R = 1.0000
DL = 0.184
BEC = 0.4578

Weight: <None>
Min Conc: <None>

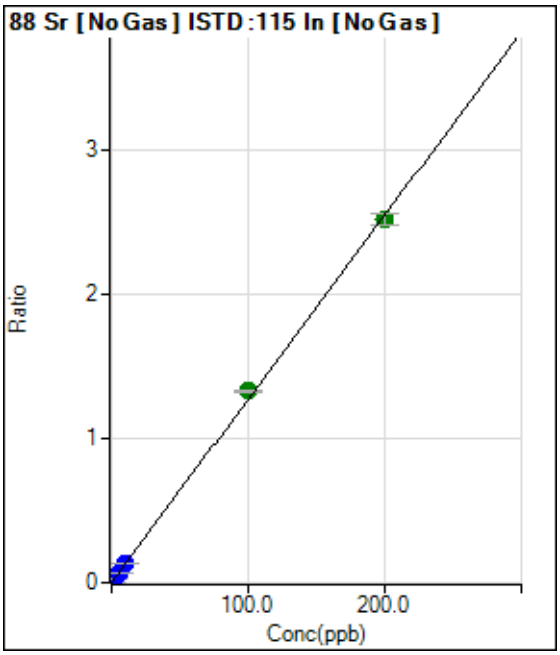


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	72.9
2	☐	2.000	2.801	110.00	0.0003	P	9.6
3	☐	5.000	4.382	150.00	0.0004	P	11.3
4	☐	10.000	9.214	266.68	0.0007	P	8.6
5	☐	100.000	107.278	2616.97	0.0069	P	1.7
6	☐	200.000	196.408	4684.24	0.0125	P	3.9

y = 6.3245E-005 * x + 1.1277E-004
R = 0.9990
DL = 3.897
BEC = 1.783

Weight: <None>
Min Conc: <None>

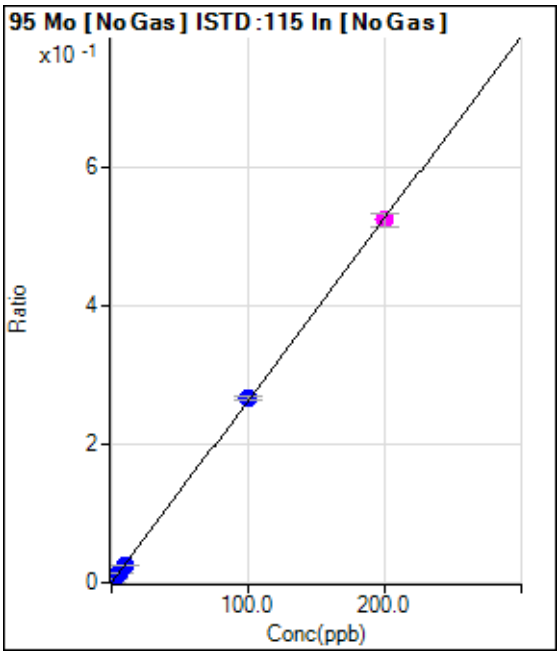
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	553.36	0.0003	P	8.4
2	☐	2.000	2.067	48655.63	0.0266	P	0.5
3	☐	5.000	5.251	123564.22	0.0672	P	2.1
4	☐	10.000	10.265	247397.27	0.1311	P	0.5
5	☐	100.000	104.604	2438915.49	1.3333	A	0.9
6	☐	200.000	197.678	4560698.58	2.5194	A	3.1

y = 0.0127 * x + 2.9579E-004
R = 0.9996
DL = 0.005856
BEC = 0.02321

Weight: <None>
Min Conc: <None>

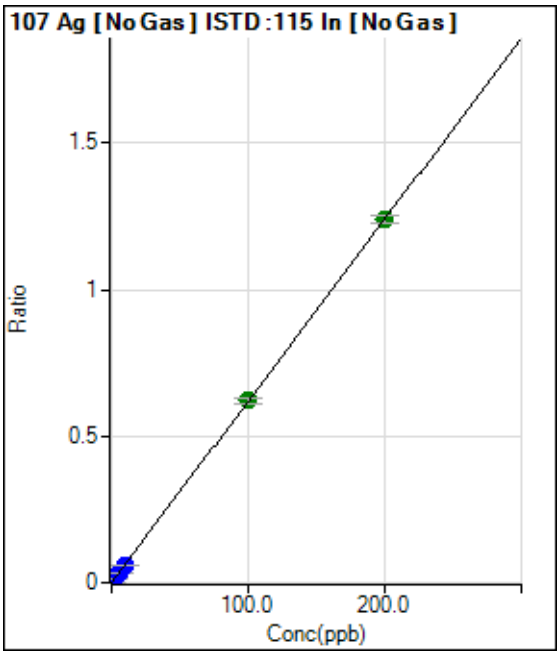


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.34	0.0001	P	28.8
2	☐	2.000	1.924	9356.75	0.0051	P	2.2
3	☐	5.000	4.933	23948.59	0.0130	P	2.1
4	☐	10.000	9.704	48237.92	0.0256	P	2.3
5	☐	100.000	101.603	488242.35	0.2669	P	2.3
6	☐	200.000	199.216	947239.85	0.5233	M	3.4

y = 0.0026 * x + 7.0973E-005
R = 1.0000
DL = 0.02333
BEC = 0.02702

Weight: <None>
Min Conc: <None>

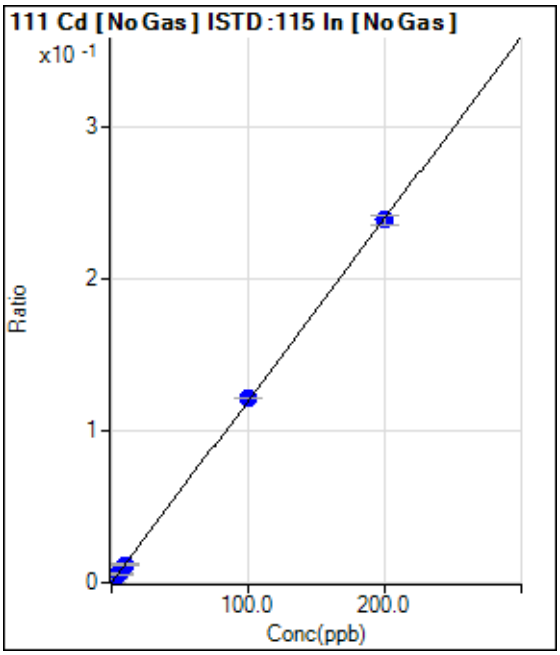
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	20.9
2	☐	2.000	2.078	23674.75	0.0130	P	2.9
3	☐	5.000	5.017	57280.68	0.0312	P	3.1
4	☐	10.000	9.960	116559.08	0.0618	P	1.4
5	☐	100.000	100.259	1135667.01	0.6209	A	2.8
6	☐	200.000	199.871	2241233.20	1.2378	A	2.2

y = 0.0062 * x + 9.4472E-005
R = 1.0000
DL = 0.009561
BEC = 0.01526

Weight: <None>
Min Conc: <None>

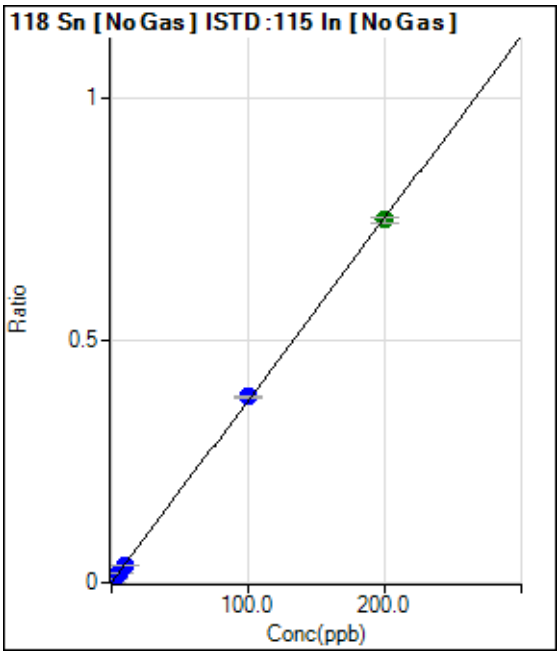


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.76	0.0000	P	87.3
2	☐	2.000	2.021	4435.89	0.0024	P	5.0
3	☐	5.000	4.825	10633.34	0.0058	P	3.8
4	☐	10.000	9.878	22317.65	0.0118	P	4.9
5	☐	100.000	101.246	221614.64	0.1211	P	0.4
6	☐	200.000	199.387	431835.76	0.2386	P	2.9

y = 0.0012 * x + 1.0460E-005
R = 1.0000
DL = 0.0229
BEC = 0.008743

Weight: <None>
Min Conc: <None>

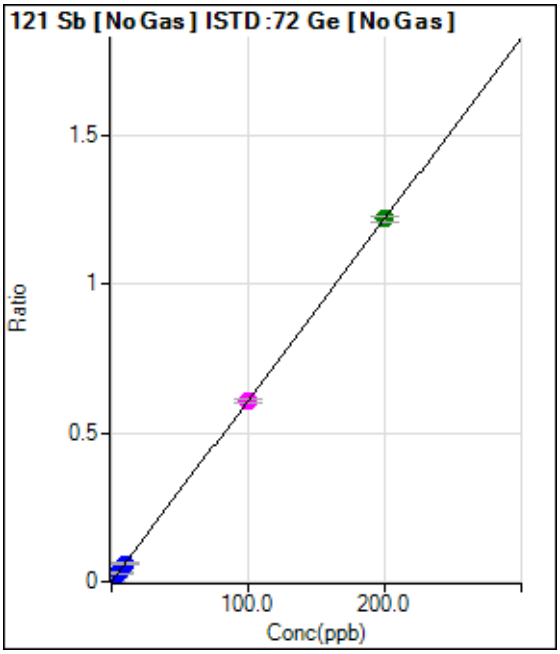
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	573.36	0.0003	P	5.1
2	☐	2.000	1.935	13854.29	0.0076	P	1.6
3	☐	5.000	5.011	35217.57	0.0192	P	3.4
4	☐	10.000	9.801	70167.74	0.0372	P	0.9
5	☐	100.000	101.822	701433.27	0.3834	P	0.8
6	☐	200.000	199.099	1356844.09	0.7494	A	1.7

y = 0.0038 * x + 3.0604E-004
R = 0.9999
DL = 0.01233
BEC = 0.08134

Weight: <None>
Min Conc: <None>

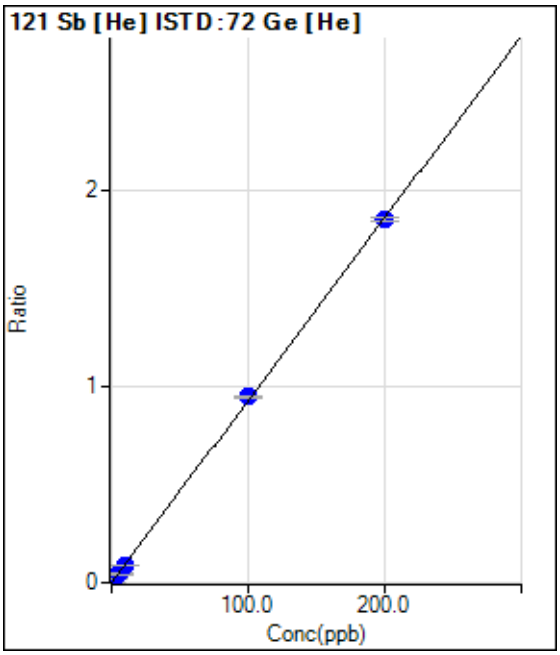


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0001	P	17.8
2	☐	2.000	1.908	19755.24	0.0117	P	2.6
3	☐	5.000	4.847	50028.84	0.0297	P	3.8
4	☐	10.000	10.049	102307.69	0.0614	P	0.8
5	☐	100.000	99.786	1021053.89	0.6088	M	2.1
6	☐	200.000	200.109	2014435.44	1.2208	A	1.3

y = 0.0061 * x + 1.0192E-004
R = 1.0000
DL = 0.008898
BEC = 0.01671

Weight: <None>
Min Conc: <None>

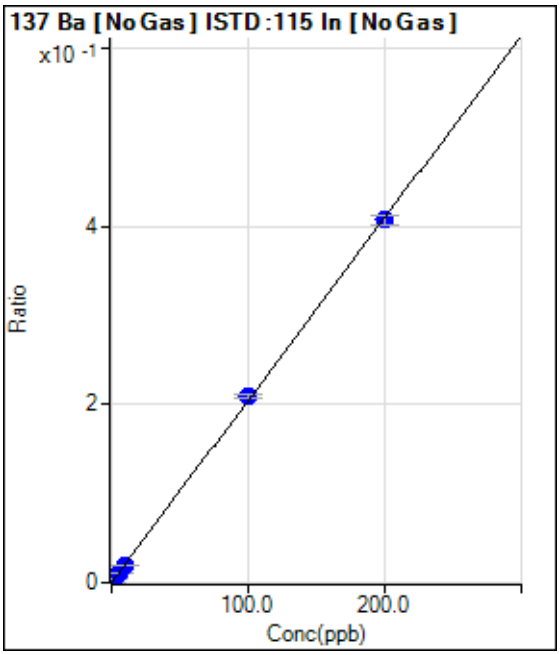
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0001	P	35.6
2	☐	2.000	1.894	6698.51	0.0176	P	5.8
3	☐	5.000	4.779	17031.28	0.0444	P	5.5
4	☐	10.000	9.680	34412.15	0.0898	P	3.3
5	☐	100.000	101.847	358191.31	0.9439	P	0.9
6	☐	200.000	199.099	689345.95	1.8452	P	1.0

y = 0.0093 * x + 8.7600E-005
R = 0.9999
DL = 0.01009
BEC = 0.009453

Weight: <None>
Min Conc: <None>

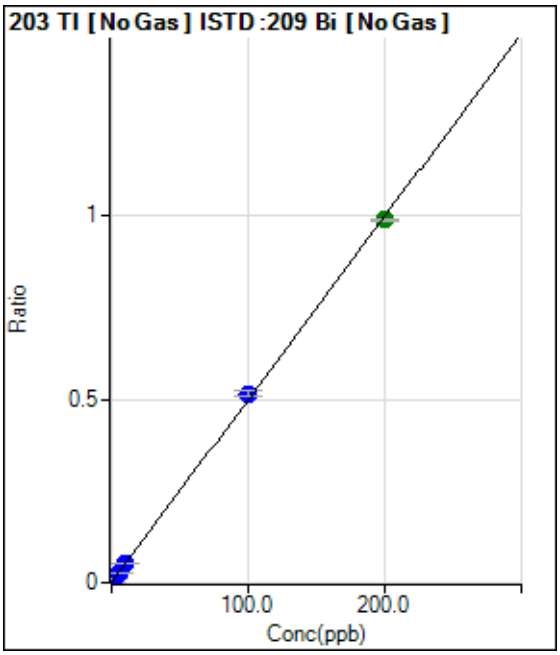


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.68	0.0001	P	18.0
2	☐	2.000	2.058	7865.87	0.0043	P	5.9
3	☐	5.000	4.878	18526.82	0.0101	P	1.8
4	☐	10.000	9.858	38236.59	0.0203	P	1.4
5	☐	100.000	101.969	381605.67	0.2086	P	2.1
6	☐	200.000	199.025	736990.41	0.4071	P	2.8

y = 0.0020 * x + 9.9582E-005
R = 0.9999
DL = 0.0263
BEC = 0.04869

Weight: <None>
Min Conc: <None>

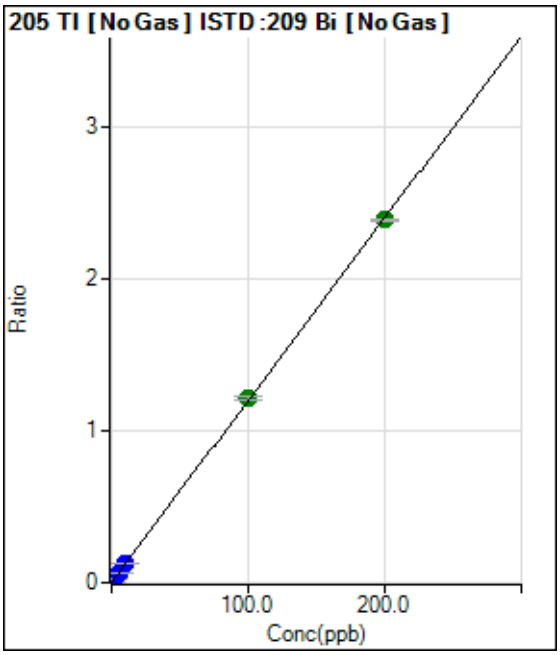
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	810.05	0.0006	P	6.8
2	☐	2.000	2.015	15756.91	0.0106	P	5.3
3	☐	5.000	5.191	39275.61	0.0264	P	4.2
4	☐	10.000	10.449	77952.82	0.0526	P	4.2
5	☐	100.000	103.359	741646.21	0.5158	P	2.4
6	☐	200.000	198.293	1410613.94	0.9890	A	0.8

y = 0.0050 * x + 5.5932E-004
R = 0.9998
DL = 0.02302
BEC = 0.1122

Weight: <None>
Min Conc: <None>

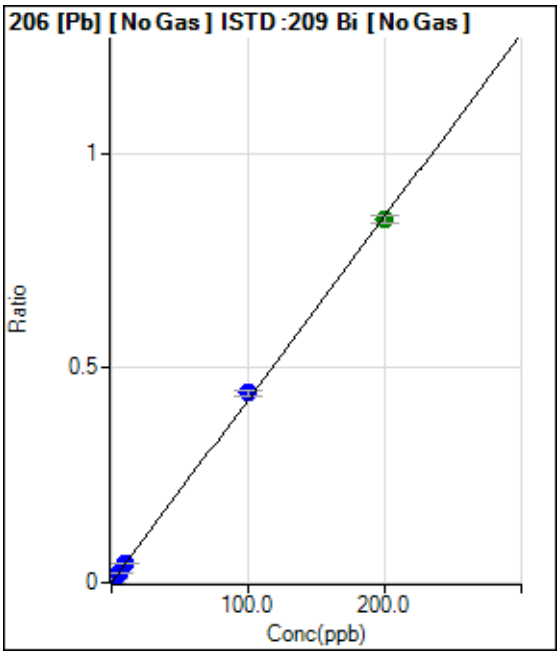


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1823.51	0.0013	P	7.2
2	☐	2.000	2.018	37834.57	0.0255	P	2.6
3	☐	5.000	5.144	93560.59	0.0629	P	1.0
4	☐	10.000	10.293	184589.07	0.1247	P	2.1
5	☐	100.000	101.631	1753958.05	1.2196	A	2.0
6	☐	200.000	199.166	3406931.61	2.3889	A	0.8

y = 0.0120 * x + 0.0013
R = 1.0000
DL = 0.02273
BEC = 0.105

Weight: <None>
Min Conc: <None>

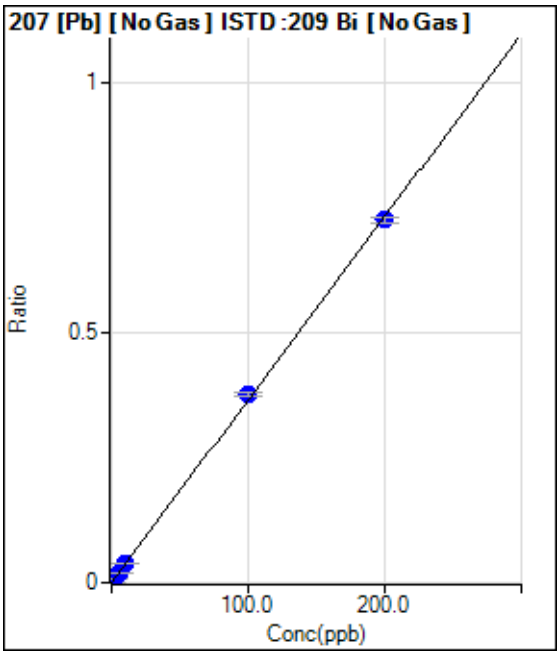
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	240.01	0.0002	P	27.8
2	☐	2.000	1.969	12733.41	0.0086	P	3.3
3	☐	5.000	5.014	32055.28	0.0216	P	3.0
4	☐	10.000	10.120	64201.87	0.0434	P	1.4
5	☐	100.000	103.574	635756.46	0.4422	P	2.9
6	☐	200.000	198.207	1206415.97	0.8460	A	2.1

y = 0.0043 * x + 1.6627E-004
R = 0.9998
DL = 0.03248
BEC = 0.03896

Weight: <None>
Min Conc: <None>

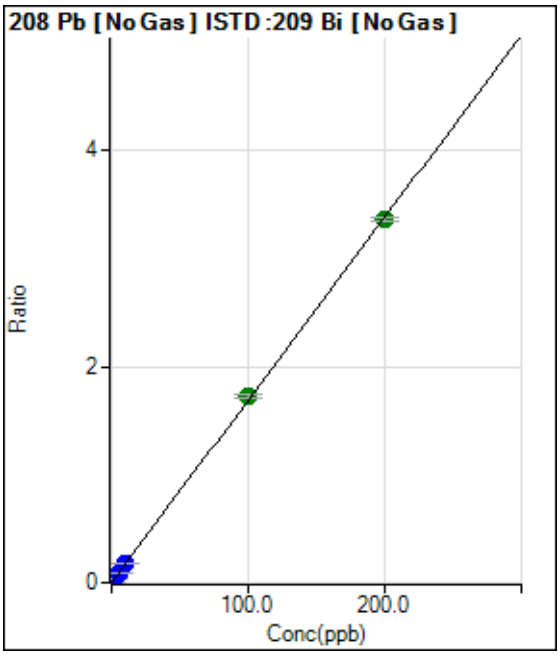


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	22.0
2	☐	2.000	1.902	10538.01	0.0071	P	2.2
3	☐	5.000	4.951	27116.55	0.0182	P	2.4
4	☐	10.000	10.144	55162.26	0.0373	P	2.4
5	☐	100.000	103.162	543225.26	0.3778	P	1.5
6	☐	200.000	198.414	1035948.22	0.7265	P	1.4

y = 0.0037 * x + 1.2180E-004
R = 0.9998
DL = 0.02196
BEC = 0.03327

Weight: <None>
Min Conc: <None>

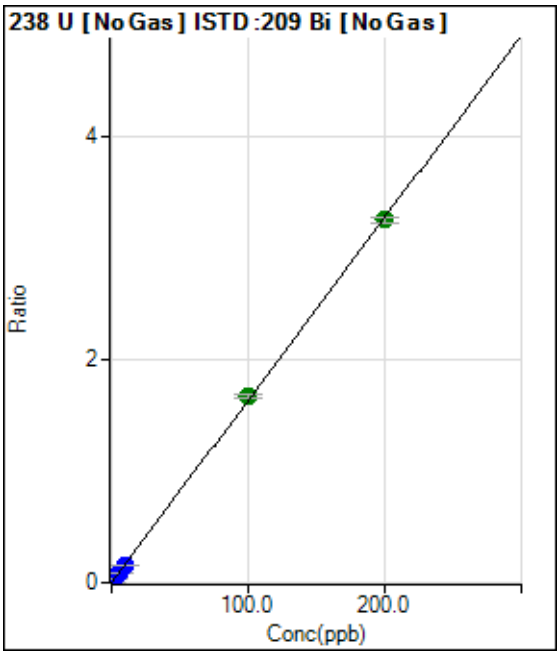
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	860.03	0.0006	P	5.2
2	☐	2.000	1.952	49863.49	0.0335	P	1.9
3	☐	5.000	4.970	125585.56	0.0845	P	1.3
4	☐	10.000	10.121	253859.02	0.1714	P	2.3
5	☐	100.000	102.410	2486454.18	1.7293	A	2.6
6	☐	200.000	198.790	4786374.52	3.3562	A	1.0

y = 0.0169 * x + 5.9369E-004
R = 0.9999
DL = 0.005527
BEC = 0.03517

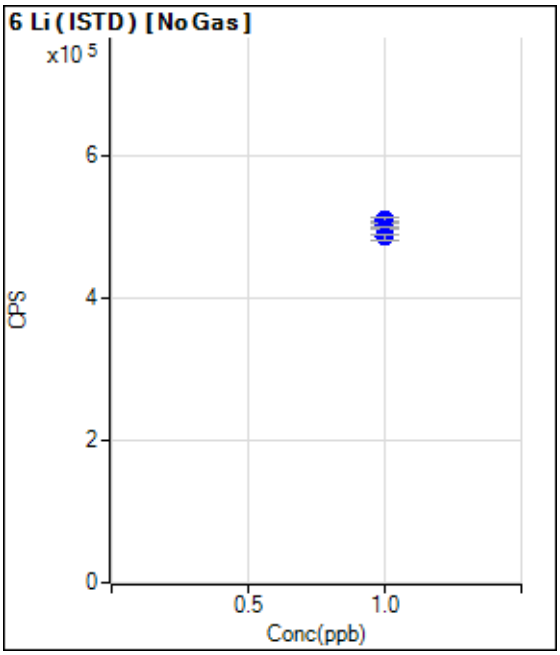
Weight: <None>
Min Conc: <None>



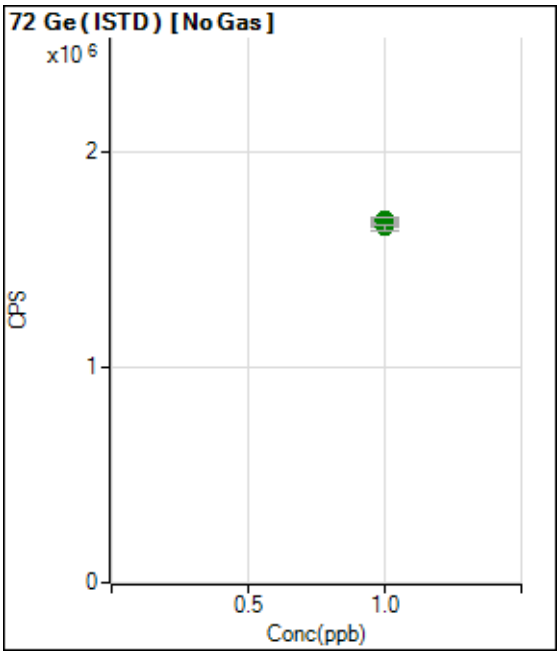
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206.67	0.0001	P	34.5
2	☐	2.000	1.922	47043.98	0.0316	P	2.4
3	☐	5.000	4.865	118703.05	0.0799	P	2.8
4	☐	10.000	9.807	238189.20	0.1609	P	2.6
5	☐	100.000	102.232	2409374.76	1.6756	A	2.1
6	☐	200.000	198.898	4648517.23	3.2598	A	1.4

y = 0.0164 * x + 1.4320E-004
R = 0.9999
DL = 0.009052
BEC = 0.008738

Weight: <None>
Min Conc: <None>

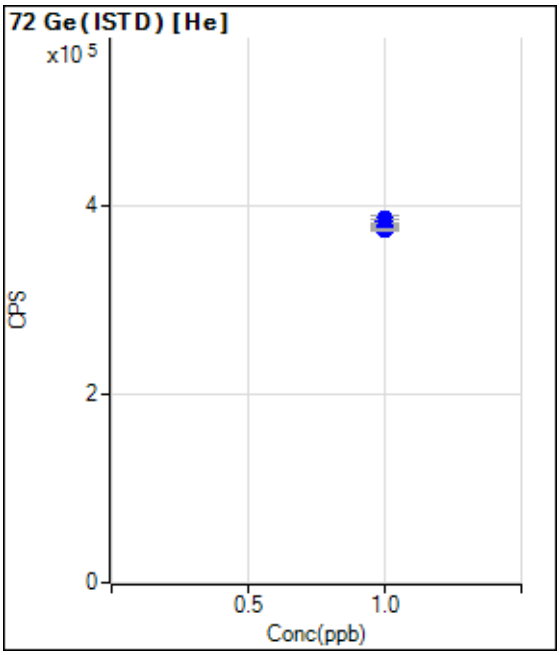


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		502306.34		P	1.4
2	☐	1.000		507143.08		P	0.8
3	☐	1.000		510710.82		P	1.2
4	☐	1.000		509134.45		P	1.6
5	☐	1.000		498327.12		P	0.5
6	☐	1.000		486976.88		P	1.7

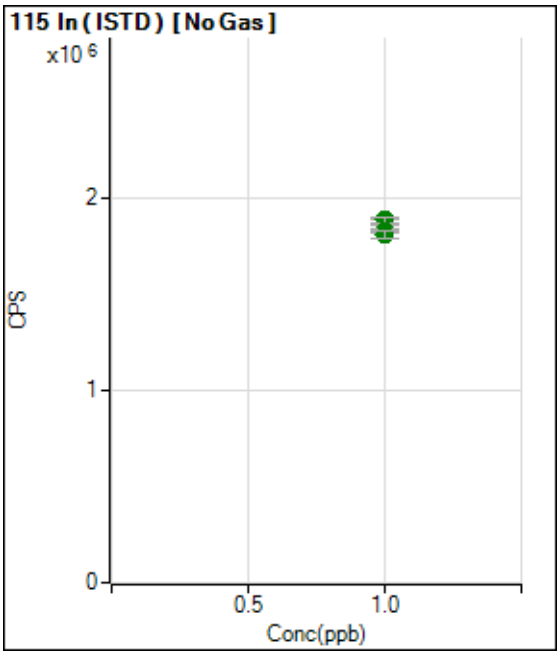


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1672653.26		A	2.5
2	☐	1.000		1682735.55		A	0.1
3	☐	1.000		1686776.96		A	1.6
4	☐	1.000		1666188.26		A	0.6
5	☐	1.000		1677637.27		A	2.7
6	☐	1.000		1650290.81		A	1.6

Calibration for 022_ICV.d

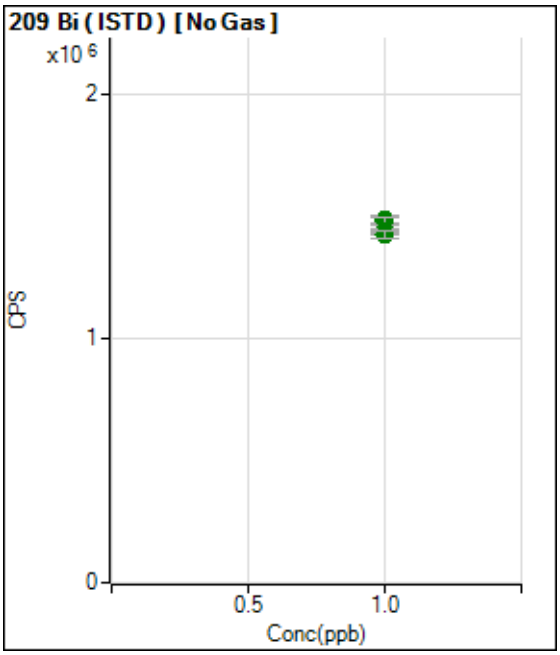


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		381709.71		P	1.4
2	☐	1.000		379541.80		P	1.1
3	☐	1.000		384102.74		P	2.5
4	☐	1.000		383257.55		P	0.9
5	☐	1.000		379443.84		P	0.9
6	☐	1.000		373603.21		P	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1872489.39		A	1.7
2	☐	1.000		1826438.46		A	1.0
3	☐	1.000		1838690.05		A	1.8
4	☐	1.000		1887106.58		A	1.6
5	☐	1.000		1829335.53		A	1.3
6	☐	1.000		1810934.78		A	2.3

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1449391.80		A	2.2
2	☐	1.000		1486779.77		A	1.9
3	☐	1.000		1486750.66		A	2.7
4	☐	1.000		1481241.59		A	2.5
5	☐	1.000		1438260.76		A	1.8
6	☐	1.000		1426251.65		A	1.7

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	015CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:06:46-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	31398	0.01
Be	9	1	No Gas	28	190.28
V	51	2	He	2382	0.26
Cr	52	2	He	5515	0.11
Fe	56	2	He	15472	0.01
Se	78	2	He	81	20.92
As	75	2	He	137	6.44
Ca	44	2	He	407	3.10
Na	23	2	He	61723	0.00
Mg	24	2	He	513	4.57
K	39	2	He	92810	0.00
Mn	55	2	He	1847	0.43
Co	59	2	He	333	4.06
Ni	60	2	He	140	20.41
Cu	63	2	He	593	1.15
Zn	66	2	He	453	4.73
Al	27	2	He	567	1.60
B	11	1	No Gas	7944	0.03
Al	27	1	No Gas	20796	0.02
Si	28	1	No Gas	296202	0.00
Ag	107	1	No Gas	177	11.25
Cd	111	1	No Gas	20	449.24
Sr	88	1	No Gas	553	1.24
Mo	95	1	No Gas	133	22.73
Sn	118	1	No Gas	573	1.15
Sb	121	1	No Gas	170	9.15
Ba	137	1	No Gas	187	10.08
Tl	205	1	No Gas	1824	0.41
Tl	203	1	No Gas	810	0.66
Pb	208	1	No Gas	860	0.47
U	238	1	No Gas	207	15.94
Ca	43	2	He	43	215.23
Sb	121	2	He	33	103.92
Cu	63	1	No Gas	1433	0.15

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	No Gas	502306	1.44

Calibration Blank Report

Ge	72	2	He	381710	1.43
Ge	72	1	No Gas	1672653	2.46
In	115	1	No Gas	1872489	1.74
Bi	209	1	No Gas	1449392	2.22

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	016CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:08:43-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	4361	0.03
V	51	2	He	10304	0.03
Cr	52	2	He	15035	0.01
Fe	56	2	He	767194	0.00
Se	78	2	He	199	6.61
As	75	2	He	1295	0.12
Ca	44	2	He	5938	0.09
Na	23	2	He	209581	0.00
Mg	24	2	He	87980	0.00
K	39	2	He	201836	0.00
Mn	55	2	He	8016	0.05
Co	59	2	He	12546	0.03
Ni	60	2	He	3160	0.12
Cu	63	2	He	8573	0.05
Zn	66	2	He	2007	0.49
Al	27	2	He	1097	0.75
B	11	1	No Gas	21273	0.01
Al	27	1	No Gas	46150	0.01
Si	28	1	No Gas	353771	0.00
Ag	107	1	No Gas	23675	0.02
Cd	111	1	No Gas	4436	0.12
Sr	88	1	No Gas	48656	0.00
Mo	95	1	No Gas	9357	0.02
Sn	118	1	No Gas	13854	0.02
Sb	121	1	No Gas	19755	0.01
Ba	137	1	No Gas	7866	0.06
Tl	205	1	No Gas	37835	0.00
Tl	203	1	No Gas	15757	0.03
Pb	208	1	No Gas	49863	0.00
U	238	1	No Gas	47044	0.00
Ca	43	2	He	357	3.88
Sb	121	2	He	6699	0.10
Cu	63	1	No Gas	18957	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	507143	0.85	502306	100.96	70	120	
Ge	72	2	He	379542	1.12	381710	99.43	70	120	
Ge	72	1	No Gas	1682736	0.12	1672653	100.60	70	120	

Calibration Standard Report

In	115	1	No Gas	1826438	1.01	1872489	97.54	70	120	
Bi	209	1	No Gas	1486780	1.91	1449392	102.58	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:10:41-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	10486	0.03
V	51	2	He	21742	0.00
Cr	52	2	He	27725	0.01
Fe	56	2	He	1923565	0.00
Se	78	2	He	395	1.58
As	75	2	He	3090	0.11
Ca	44	2	He	13837	0.03
Na	23	2	He	435468	0.00
Mg	24	2	He	220212	0.00
K	39	2	He	370445	0.00
Mn	55	2	He	16984	0.01
Co	59	2	He	31116	0.00
Ni	60	2	He	8126	0.05
Cu	63	2	He	20169	0.01
Zn	66	2	He	3981	0.05
Al	27	2	He	1850	0.75
B	11	1	No Gas	41003	0.01
Al	27	1	No Gas	75495	0.00
Si	28	1	No Gas	444048	0.00
Ag	107	1	No Gas	57281	0.00
Cd	111	1	No Gas	10633	0.04
Sr	88	1	No Gas	123564	0.00
Mo	95	1	No Gas	23949	0.00
Sn	118	1	No Gas	35218	0.01
Sb	121	1	No Gas	50029	0.01
Ba	137	1	No Gas	18527	0.01
Tl	205	1	No Gas	93561	0.00
Tl	203	1	No Gas	39276	0.00
Pb	208	1	No Gas	125586	0.00
U	238	1	No Gas	118703	0.00
Ca	43	2	He	863	1.34
Sb	121	2	He	17031	0.02
Cu	63	1	No Gas	45874	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	510711	1.22	502306	101.67	70	120	
Ge	72	2	He	384103	2.48	381710	100.63	70	120	
Ge	72	1	No Gas	1686777	1.59	1672653	100.84	70	120	

Calibration Standard Report

In	115	1	No Gas	1838690	1.82	1872489	98.19	70	120	
Bi	209	1	No Gas	1486751	2.70	1449392	102.58	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:12:37-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	21128	0.01
V	51	2	He	42534	0.00
Cr	52	2	He	50952	0.00
Fe	56	2	He	3771745	0.00
Se	78	2	He	666	0.64
As	75	2	He	6295	0.01
Ca	44	2	He	27147	0.01
Na	23	2	He	771563	0.00
Mg	24	2	He	448820	0.00
K	39	2	He	652174	0.00
Mn	55	2	He	33775	0.00
Co	59	2	He	63421	0.00
Ni	60	2	He	15930	0.02
Cu	63	2	He	39919	0.01
Zn	66	2	He	8016	0.02
Al	27	2	He	3087	0.21
B	11	1	No Gas	74867	0.00
Al	27	1	No Gas	129876	0.00
Si	28	1	No Gas	591176	0.00
Ag	107	1	No Gas	116559	0.00
Cd	111	1	No Gas	22318	0.02
Sr	88	1	No Gas	247397	0.00
Mo	95	1	No Gas	48238	0.01
Sn	118	1	No Gas	70168	0.00
Sb	121	1	No Gas	102308	0.00
Ba	137	1	No Gas	38237	0.01
Tl	205	1	No Gas	184589	0.00
Tl	203	1	No Gas	77953	0.00
Pb	208	1	No Gas	253859	0.00
U	238	1	No Gas	238189	0.00
Ca	43	2	He	1637	0.71
Sb	121	2	He	34412	0.01
Cu	63	1	No Gas	90152	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	509134	1.64	502306	101.36	70	120	
Ge	72	2	He	383258	0.88	381710	100.41	70	120	
Ge	72	1	No Gas	1666188	0.62	1672653	99.61	70	120	

Calibration Standard Report

In	115	1	No Gas	1887107	1.61	1872489	100.78	70	120	
Bi	209	1	No Gas	1481242	2.54	1449392	102.20	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:14:34-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	214496	0.00
V	51	2	He	403676	0.00
Cr	52	2	He	457305	0.00
Fe	56	2	He	37283651	0.00
Se	78	2	He	5573	0.08
As	75	2	He	62457	0.00
Ca	44	2	He	272864	0.00
Na	23	2	He	7105919	0.00
Mg	24	2	He	4230978	0.00
K	39	2	He	5444927	0.00
Mn	55	2	He	316374	0.00
Co	59	2	He	621192	0.00
Ni	60	2	He	165216	0.00
Cu	63	2	He	392078	0.00
Zn	66	2	He	74907	0.00
Al	27	2	He	26309	0.01
B	11	1	No Gas	682388	0.00
Al	27	1	No Gas	1107173	0.00
Si	28	1	No Gas	3152293	0.00
Ag	107	1	No Gas	1135667	0.00
Cd	111	1	No Gas	221615	0.00
Sr	88	1	No Gas	2438915	0.00
Mo	95	1	No Gas	488242	0.00
Sn	118	1	No Gas	701433	0.00
Sb	121	1	No Gas	1021054	0.00
Ba	137	1	No Gas	381606	0.00
Tl	205	1	No Gas	1753958	0.00
Tl	203	1	No Gas	741646	0.00
Pb	208	1	No Gas	2486454	0.00
U	238	1	No Gas	2409375	0.00
Ca	43	2	He	16063	0.03
Sb	121	2	He	358191	0.00
Cu	63	1	No Gas	886839	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	498327	0.53	502306	99.21	70	120	
Ge	72	2	He	379444	0.94	381710	99.41	70	120	
Ge	72	1	No Gas	1677637	2.65	1672653	100.30	70	120	

Calibration Standard Report

In	115	1	No Gas	1829336	1.27	1872489	97.70	70	120	
Bi	209	1	No Gas	1438261	1.83	1449392	99.23	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	020CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:16:28-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	410948	0.00
V	51	2	He	784555	0.00
Cr	52	2	He	876551	0.00
Fe	56	2	He	70292454	0.00
Se	78	2	He	10720	0.01
As	75	2	He	117805	0.00
Ca	44	2	He	516761	0.00
Na	23	2	He	13526133	0.00
Mg	24	2	He	7922622	0.00
K	39	2	He	10427488	0.00
Mn	55	2	He	609672	0.00
Co	59	2	He	1186103	0.00
Ni	60	2	He	294319	0.00
Cu	63	2	He	744678	0.00
Zn	66	2	He	141803	0.00
Al	27	2	He	51318	0.00
B	11	1	No Gas	1287831	0.00
Al	27	1	No Gas	2068737	0.00
Si	28	1	No Gas	5767207	0.00
Ag	107	1	No Gas	2241233	0.00
Cd	111	1	No Gas	431836	0.00
Sr	88	1	No Gas	4560699	0.00
Mo	95	1	No Gas	947240	0.00
Sn	118	1	No Gas	1356844	0.00
Sb	121	1	No Gas	2014435	0.00
Ba	137	1	No Gas	736990	0.00
Tl	205	1	No Gas	3406932	0.00
Tl	203	1	No Gas	1410614	0.00
Pb	208	1	No Gas	4786375	0.00
U	238	1	No Gas	4648517	0.00
Ca	43	2	He	30772	0.00
Sb	121	2	He	689346	0.00
Cu	63	1	No Gas	1671721	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	486977	1.69	502306	96.95	70	120	
Ge	72	2	He	373603	1.03	381710	97.88	70	120	
Ge	72	1	No Gas	1650291	1.62	1672653	98.66	70	120	

Calibration Standard Report

In	115	1	No Gas	1810935	2.28	1872489	96.71	70	120	
Bi	209	1	No Gas	1426252	1.71	1449392	98.40	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	022_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:20:33-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	98.984	1.738	709987	0.58	100	99.0	90	110	
Be	9	1	No Gas	100.196	1.431	216838	0.68	100	100.2	90	110	
V	51	2	He	99.370	1.063	400382	0.11	100	99.4	90	110	
Cr	52	2	He	99.432	1.954	450071	1.99	100	99.4	90	110	
Fe	56	2	He	10100.598	2.143	36615846	2.59	10000	101.0	90	110	
Se	78	2	He	100.717	2.045	5576	1.63	100	100.7	90	110	
As	75	2	He	104.348	0.050	63420	1.17	100	104.3	90	110	
Ca	44	2	He	10163.826	1.362	270681	0.92	10000	101.6	90	110	
Na	23	2	He	10025.419	1.353	7002111	1.59	10000	100.3	90	110	
Mg	24	2	He	9988.796	0.961	4086584	0.25	10000	99.9	90	110	
K	39	2	He	9965.341	1.672	5377543	1.00	10000	99.7	90	110	
Mn	55	2	He	99.628	1.604	312523	2.12	100	99.6	90	110	
Co	59	2	He	100.186	1.071	611193	0.29	100	100.2	90	110	
Ni	60	2	He	100.624	0.789	154588	0.40	100	100.6	90	110	
Cu	63	2	He	100.845	0.751	386864	1.92	100	100.8	90	110	
Zn	66	2	He	102.028	0.346	74698	1.20	100	102.0	90	110	
Al	27	2	He	101.150	0.818	26800	1.95	100	101.1	90	110	
B	11	1	No Gas	494.553	1.337	676124	0.41	500	98.9	90	110	
Al	27	1	No Gas	107.415	3.339	1148889	1.80	100	107.4	90	110	
Si	28	1	No Gas	528.673	3.177	3255377	1.30	500	105.7	90	110	
Ag	107	1	No Gas	98.915	1.263	1129315	0.90	100	98.9	90	110	
Cd	111	1	No Gas	102.199	1.337	225419	1.09	100	102.2	90	110	
Sr	88	1	No Gas	102.936	1.965	2418642	1.67	100	102.9	90	110	
Mo	95	1	No Gas	96.219	2.197	466011	2.11	100	96.2	90	110	
Sn	118	1	No Gas	102.149	0.769	709059	0.39	100	102.1	90	110	
Sb	121	1	No Gas	99.945	2.459	1022767	0.98	100	99.9	90	110	
Ba	137	1	No Gas	100.512	1.605	379112	1.41	100	100.5	90	110	
Tl	205	1	No Gas	102.296	3.124	1837649	2.75	100	102.3	90	110	
Tl	203	1	No Gas	102.883	1.710	768584	1.22	100	102.9	90	110	
Pb	208	1	No Gas	99.959	1.251	2526849	0.85	100	100.0	90	110	
U	238	1	No Gas	97.296	1.196	2387252	0.72	100	97.3	90	110	
Ca	43	2	He	10121.078	2.713	16020	2.49	10000	101.2	90	110	
Sb	121	2	He	99.398	1.428	351708	0.67	100	99.4	90	110	
Ti	47	2	He	106.305	4.781	15793	3.77	100	106.3	90	110	
Cu	63	1	No Gas	104.390	1.370	895564	0.50	100	104.4	90	110	
Se	82	1	No Gas	101.262	3.367	16646	2.08	100	101.3	90	110	

QC ISTD Table

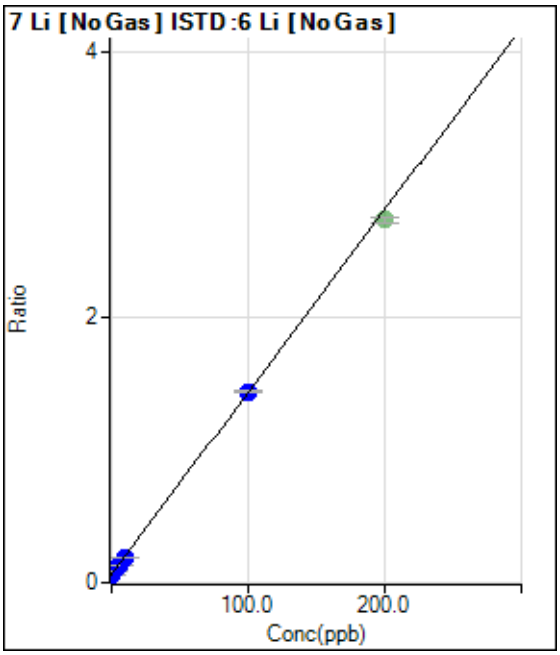
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	510785	1.14	502306	101.69	70	120	
Ge	72	2	He	381813	1.17	381710	100.03	70	120	
Ge	72	1	No Gas	1677662	1.64	1672653	100.30	70	120	
In	115	1	No Gas	1843461	0.38	1872489	98.45	70	120	
Bi	209	1	No Gas	1497065	0.49	1449392	103.29	70	120	

Calibration for 022_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\082923A.b\
Analysis File: 082923A.batch.bin
DA Date-Time: 8/29/2023 11:05:50 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	015CALB.d	CAL BLK	8/29/2023 11:06:46 AM
2	016CALS.d	2/10/200	8/29/2023 11:08:43 AM
3	017CALS.d	5/25/500	8/29/2023 11:10:41 AM
4	018CALS.d	10/50/100	8/29/2023 11:12:37 AM
5	019CALS.d	100/500/10K	8/29/2023 11:14:34 AM
6	020CALS.d	200/1000/20K	8/29/2023 11:16:28 AM

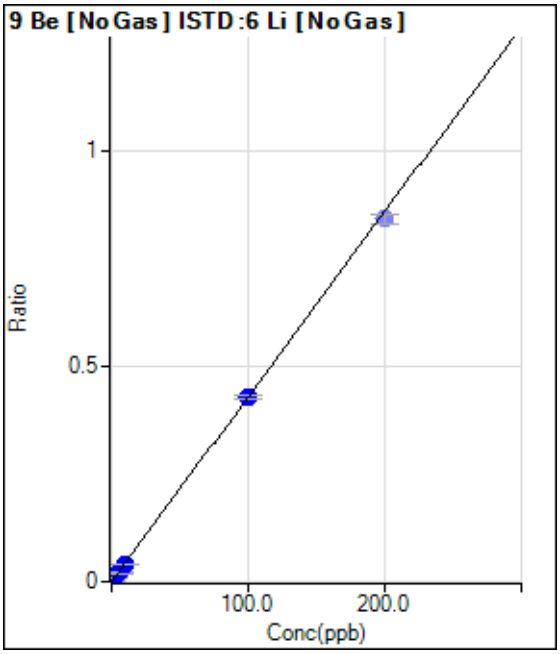
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31398.34	0.0625	P	1.0
2	☐	2.000	1.813	44304.41	0.0874	P	1.0
3	☐	5.000	4.751	65176.98	0.1276	P	1.5
4	☐	10.000	9.462	97849.57	0.1922	P	1.9
5	☐	100.000	100.070	714789.39	1.4344	P	0.8
6	☑	200.000		1329383.37	2.7301	A	1.7

y = 0.0137 * x + 0.0625
R = 1.0000
DL = 0.1349
BEC = 4.559

Weight: <None>
Min Conc: <None>

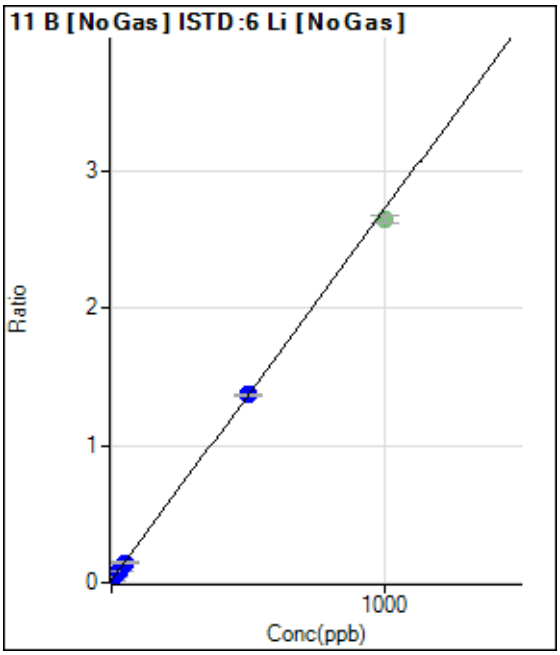


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.33	0.0001	P	53.7
2	☐	2.000	1.986	4360.72	0.0086	P	0.9
3	☐	5.000	4.762	10485.64	0.0205	P	4.5
4	☐	10.000	9.638	21127.63	0.0415	P	3.6
5	☐	100.000	100.048	214496.21	0.4304	P	1.8
6	☑	200.000		410947.69	0.8441	P	2.9

y = 0.0043 * x + 5.6294E-005
R = 1.0000
DL = 0.02108
BEC = 0.01309

Weight: <None>
Min Conc: <None>

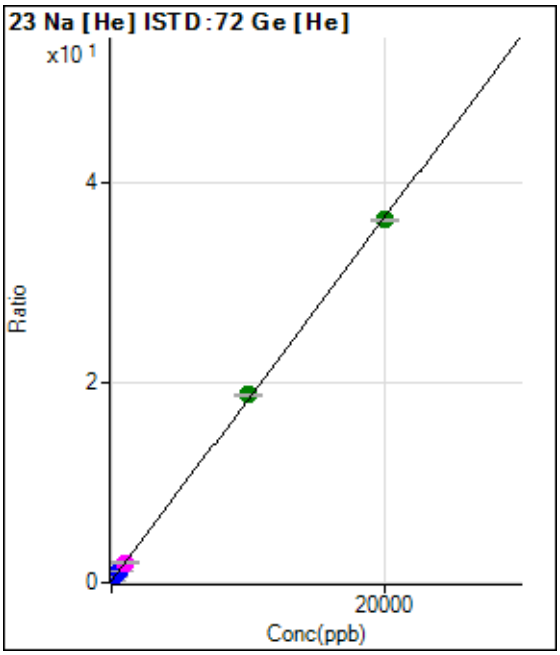
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7943.98	0.0158	P	2.4
2	☐	10.000	9.657	21272.87	0.0419	P	2.4
3	☐	25.000	23.832	41003.21	0.0803	P	3.2
4	☐	50.000	48.509	74866.96	0.1471	P	2.3
5	☐	500.000	500.214	682387.86	1.3694	P	0.8
6	☑	1000.000		1287830.66	2.6452	A	2.1

y = 0.0027 * x + 0.0158
R = 1.0000
DL = 0.4162
BEC = 5.845

Weight: <None>
Min Conc: <None>

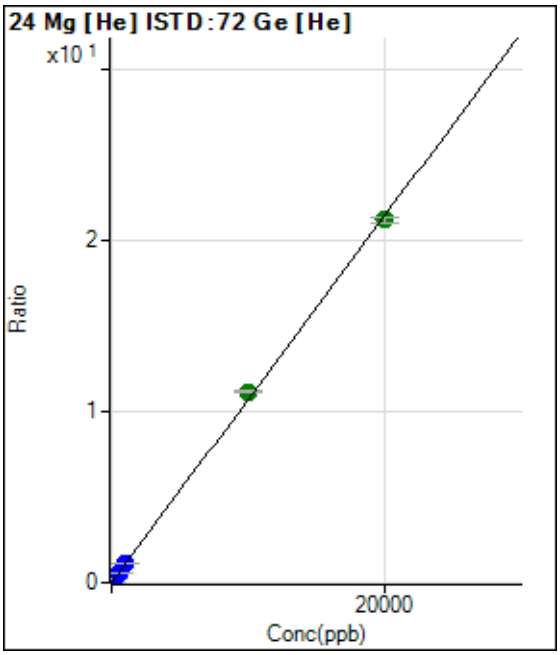


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61723.16	0.1617	P	3.0
2	☐	200.000	215.341	209580.95	0.5522	P	0.4
3	☐	500.000	536.342	435468.18	1.1342	P	2.7
4	☐	1000.000	1021.343	771562.62	2.0136	M	4.4
5	☐	10000.000	10239.131	7105918.65	18.7270	A	0.5
6	☐	20000.000	19878.305	13526132.72	36.2045	A	0.6

y = 0.0018 * x + 0.1617
R = 0.9999
DL = 8.059
BEC = 89.2

Weight: <None>
Min Conc: <None>

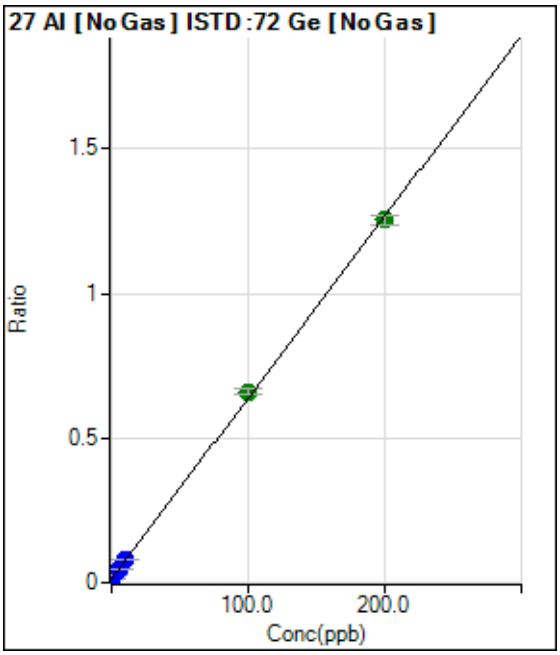
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	513.35	0.0013	P	23.2
2	☐	200.000	215.085	87980.01	0.2318	P	0.6
3	☐	500.000	533.969	220212.21	0.5735	P	1.7
4	☐	1000.000	1091.744	448820.41	1.1711	P	0.8
5	☐	10000.000	10406.493	4230977.65	11.1514	A	1.4
6	☐	20000.000	19791.166	7922621.55	21.2067	A	1.3

y = 0.0011 * x + 0.0013
R = 0.9997
DL = 0.8738
BEC = 1.254

Weight: <None>
Min Conc: <None>

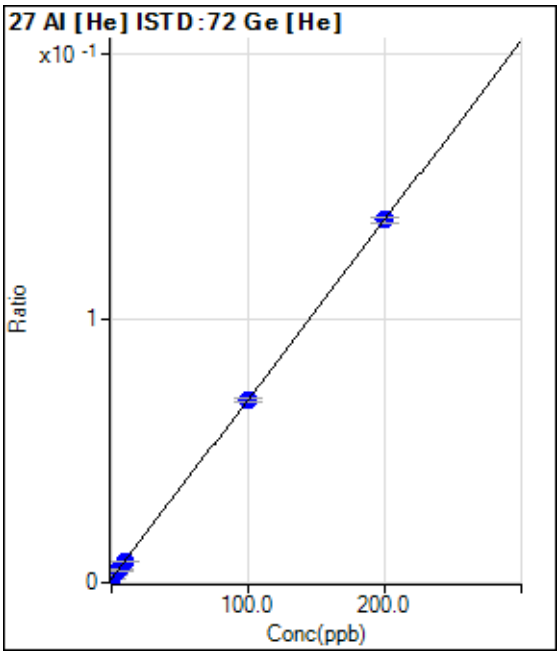


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20795.87	0.0124	P	4.1
2	☐	2.000	2.393	46150.35	0.0274	P	2.5
3	☐	5.000	5.162	75494.66	0.0448	P	1.3
4	☐	10.000	10.462	129876.01	0.0779	P	0.3
5	☐	100.000	103.428	1107173.08	0.6601	A	2.7
6	☐	200.000	198.255	2068737.16	1.2539	A	2.4

y = 0.0063 * x + 0.0124
R = 0.9998
DL = 0.2462
BEC = 1.986

Weight: <None>
Min Conc: <None>

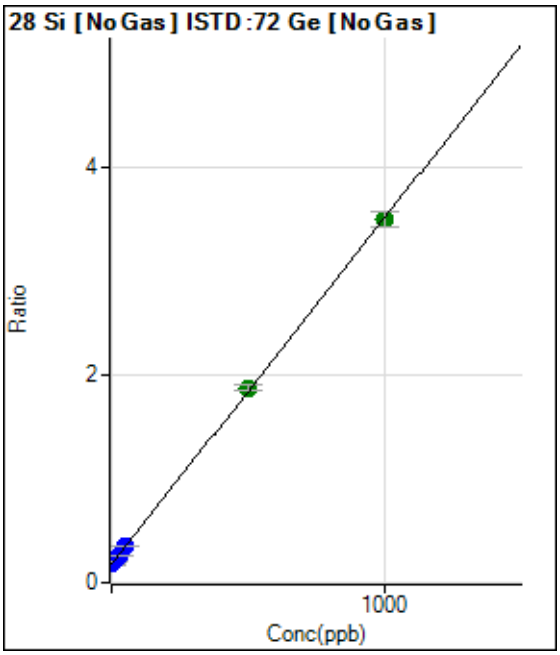
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	566.69	0.0015	P	10.4
2	☐	2.000	2.064	1096.73	0.0029	P	7.1
3	☐	5.000	4.923	1850.16	0.0048	P	16.4
4	☐	10.000	9.675	3087.07	0.0081	P	7.1
5	☐	100.000	99.886	26308.50	0.0693	P	1.8
6	☐	200.000	200.075	51318.30	0.1374	P	1.9

y = 6.7919E-004 * x + 0.0015
R = 1.0000
DL = 0.6845
BEC = 2.188

Weight: <None>
Min Conc: <None>

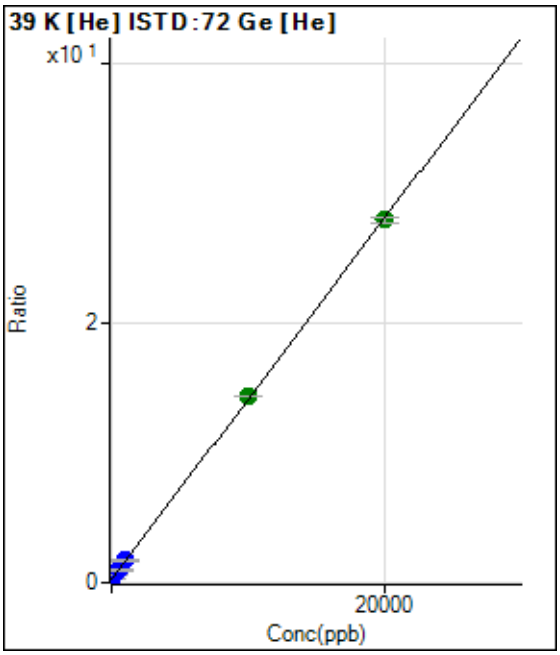


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	296202.39	0.1771	P	2.5
2	☐	10.000	9.921	353771.39	0.2102	P	0.3
3	☐	25.000	25.821	444047.93	0.2633	P	1.3
4	☐	50.000	53.255	591175.81	0.3548	P	0.8
5	☐	500.000	510.394	3152292.87	1.8800	A	3.1
6	☐	1000.000	994.621	5767206.79	3.4956	A	4.4

y = 0.0033 * x + 0.1771
R = 0.9999
DL = 3.915
BEC = 53.09

Weight: <None>
Min Conc: <None>

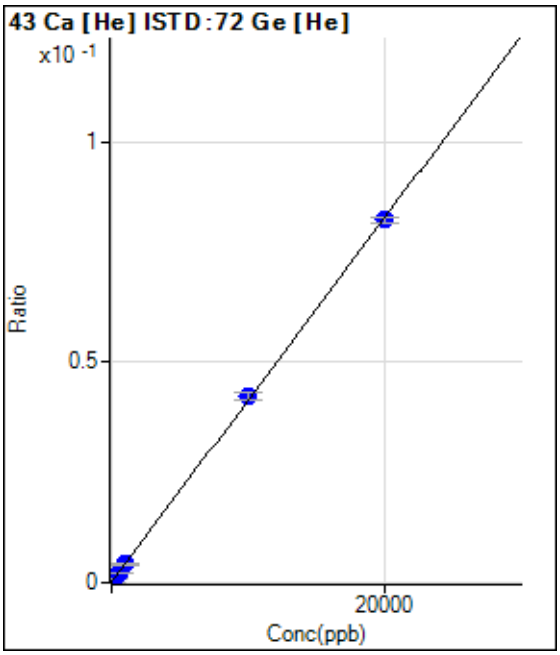
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	92810.18	0.2432	P	1.8
2	☐	200.000	207.757	201836.44	0.5318	P	0.5
3	☐	500.000	519.536	370445.10	0.9649	P	2.9
4	☐	1000.000	1050.056	652173.82	1.7018	P	1.8
5	☐	10000.000	10155.504	5444927.00	14.3498	A	1.0
6	☐	20000.000	19919.179	10427487.55	27.9122	A	1.5

y = 0.0014 * x + 0.2432
R = 1.0000
DL = 9.586
BEC = 175.1

Weight: <None>
Min Conc: <None>

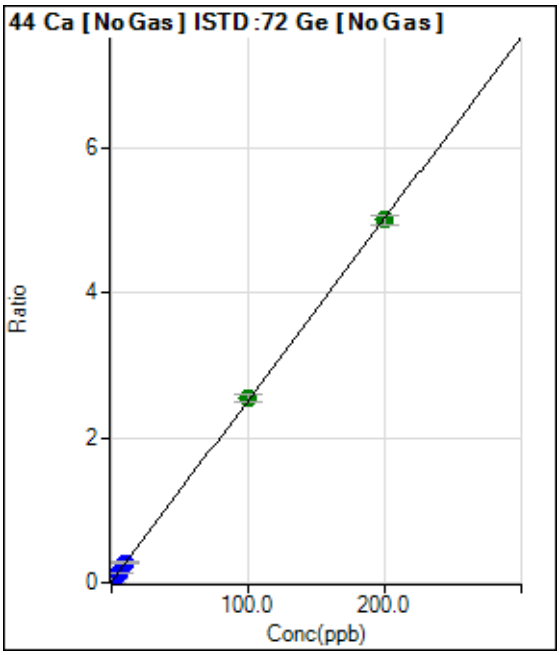


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	92.8
2	☐	200.000	200.121	356.68	0.0009	P	14.1
3	☐	500.000	516.989	863.38	0.0023	P	12.5
4	☐	1000.000	1006.355	1636.80	0.0043	P	12.3
5	☐	10000.000	10208.885	16062.98	0.0423	P	3.8
6	☐	20000.000	19894.814	30771.55	0.0824	P	1.7

y = 4.1347E-006 * x + 1.1256E-004
R = 0.9999
DL = 75.81
BEC = 27.22

Weight: <None>
Min Conc: <None>

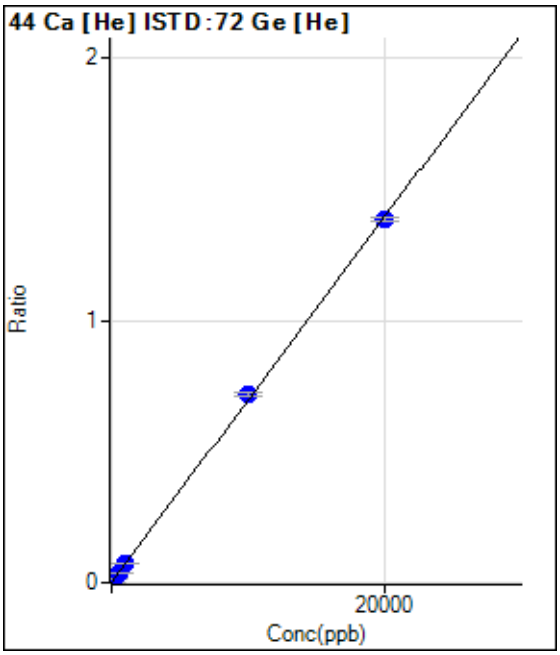
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20755.93	0.0124	P	1.3
2	☐	2.000	2.091	108992.80	0.0648	P	1.5
3	☐	5.000	5.198	240479.23	0.1426	P	2.2
4	☐	10.000	10.619	463803.91	0.2784	P	1.3
5	☐	100.000	101.306	4275016.71	2.5497	A	3.5
6	☐	200.000	199.310	8256016.34	5.0042	A	2.8

y = 0.0250 * x + 0.0124
R = 1.0000
DL = 0.0195
BEC = 0.4954

Weight: <None>
Min Conc: <None>

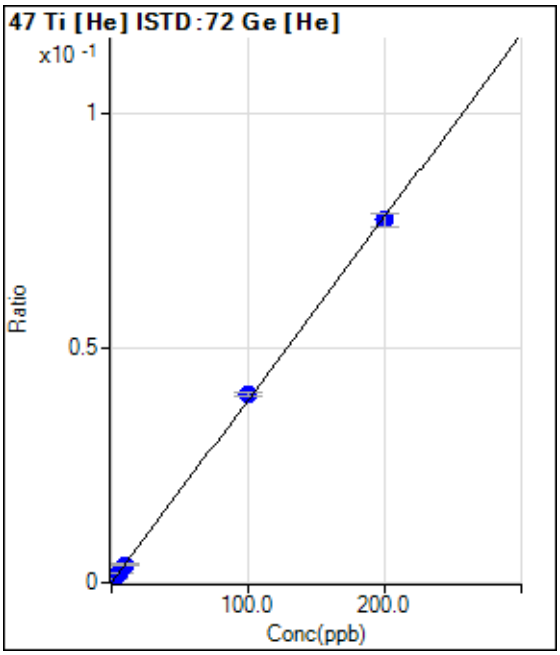


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	406.68	0.0011	P	13.1
2	☐	200.000	209.299	5938.07	0.0156	P	4.7
3	☐	500.000	502.421	13837.16	0.0361	P	6.3
4	☐	1000.000	1001.757	27147.19	0.0708	P	2.6
5	☐	10000.000	10310.349	272863.86	0.7192	P	1.9
6	☐	20000.000	19844.584	516761.24	1.3833	P	1.1

y = 6.9652E-005 * x + 0.0011
R = 0.9998
DL = 5.994
BEC = 15.3

Weight: <None>
Min Conc: <None>

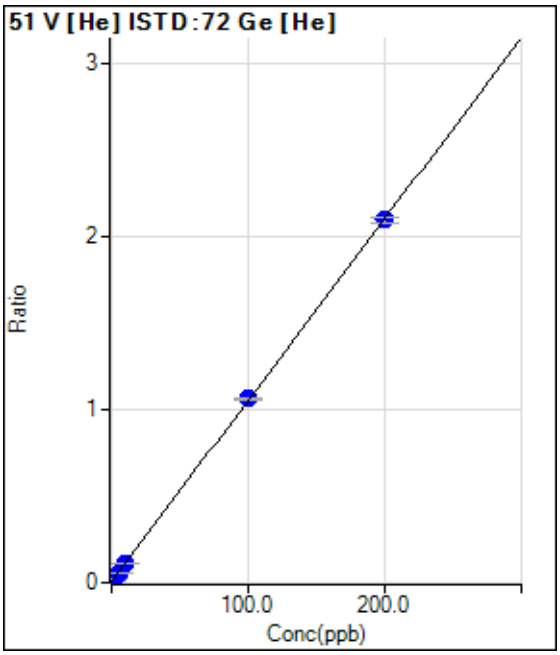
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	2.000	1.758	260.01	0.0007	P	19.0
3	☐	5.000	4.977	743.36	0.0019	P	7.7
4	☐	10.000	9.680	1443.44	0.0038	P	8.3
5	☐	100.000	103.211	15242.02	0.0402	P	1.7
6	☐	200.000	198.413	28847.29	0.0772	P	4.0

y = 3.8922E-004 * x + 0.0000E+000
R = 0.9998
DL = 0
BEC = 0

Weight: <None>
Min Conc: <None>

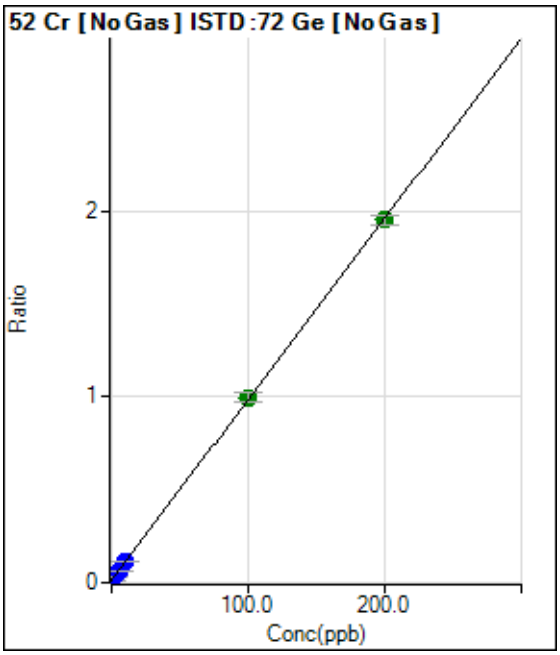


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2382.44	0.0062	P	5.1
2	☐	2.000	1.993	10303.92	0.0271	P	2.2
3	☐	5.000	4.803	21741.72	0.0566	P	2.6
4	☐	10.000	9.984	42533.56	0.1110	P	0.8
5	☐	100.000	100.818	403675.85	1.0639	P	0.7
6	☐	200.000	199.597	784554.95	2.1002	P	1.5

y = 0.0105 * x + 0.0062
R = 1.0000
DL = 0.09077
BEC = 0.5947

Weight: <None>
Min Conc: <None>

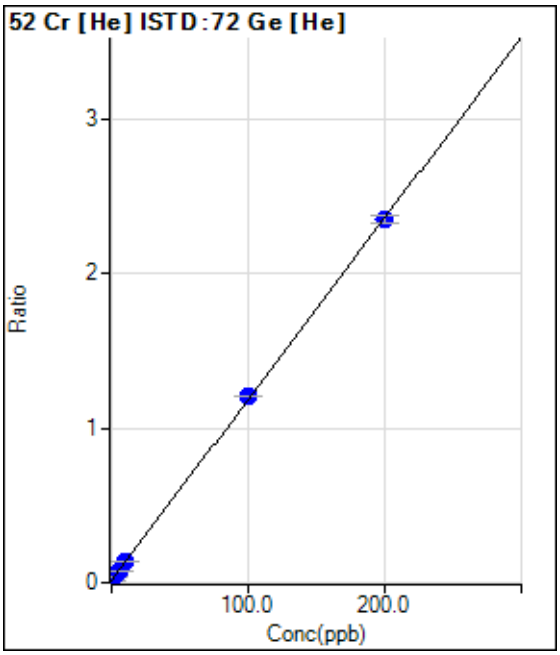
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23810.91	0.0142	P	0.9
2	☐	2.000	1.953	55887.79	0.0332	P	0.7
3	☐	5.000	5.059	106925.67	0.0634	P	2.4
4	☐	10.000	10.101	187278.43	0.1124	P	1.1
5	☐	100.000	101.198	1672511.69	0.9977	A	4.5
6	☐	200.000	199.395	3220672.76	1.9521	A	2.4

y = 0.0097 * x + 0.0142
R = 1.0000
DL = 0.03803
BEC = 1.465

Weight: <None>
Min Conc: <None>

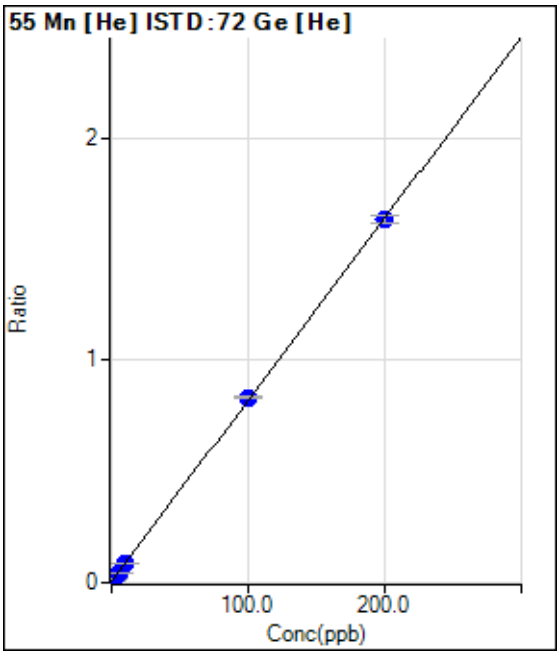


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5514.55	0.0144	P	4.6
2	☐	2.000	2.149	15035.13	0.0396	P	0.8
3	☐	5.000	4.933	27725.15	0.0722	P	3.4
4	☐	10.000	10.119	50951.65	0.1329	P	1.4
5	☐	100.000	101.686	457304.78	1.2052	P	0.3
6	☐	200.000	199.151	876550.59	2.3466	P	2.2

y = 0.0117 * x + 0.0144
R = 0.9999
DL = 0.1703
BEC = 1.233

Weight: <None>
Min Conc: <None>

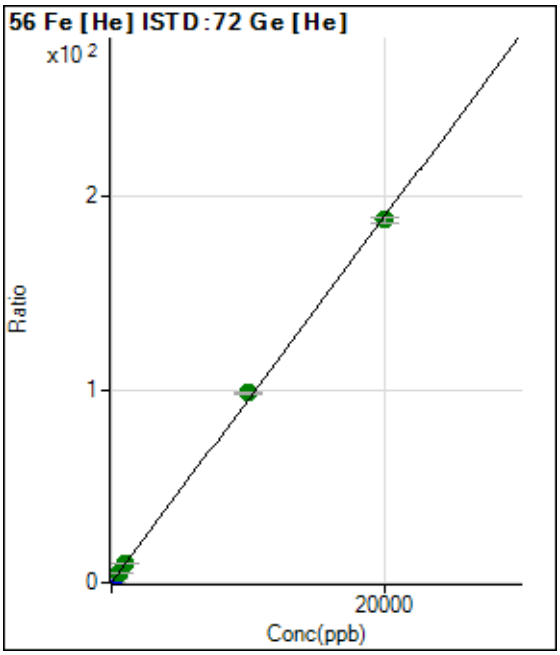
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1846.83	0.0048	P	8.3
2	☐	2.000	1.994	8015.84	0.0211	P	5.3
3	☐	5.000	4.823	16984.12	0.0442	P	2.2
4	☐	10.000	10.198	33775.41	0.0881	P	0.1
5	☐	100.000	101.497	316373.85	0.8338	P	0.5
6	☐	200.000	199.246	609671.83	1.6321	P	2.0

y = 0.0082 * x + 0.0048
R = 1.0000
DL = 0.1477
BEC = 0.5926

Weight: <None>
Min Conc: <None>

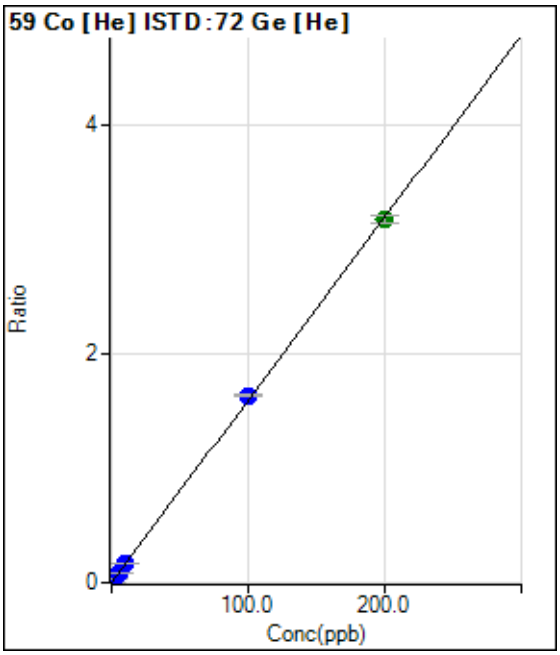


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15472.47	0.0405	P	1.6
2	☐	200.000	208.709	767193.95	2.0212	P	1.2
3	☐	500.000	523.449	1923565.02	5.0082	A	2.9
4	☐	1000.000	1032.761	3771745.05	9.8417	A	1.7
5	☐	10000.000	10349.118	37283651.11	98.2562	A	0.4
6	☐	20000.000	19823.130	70292453.95	188.1670	A	1.5

y = 0.0095 * x + 0.0405
R = 0.9998
DL = 0.2024
BEC = 4.271

Weight: <None>
Min Conc: <None>

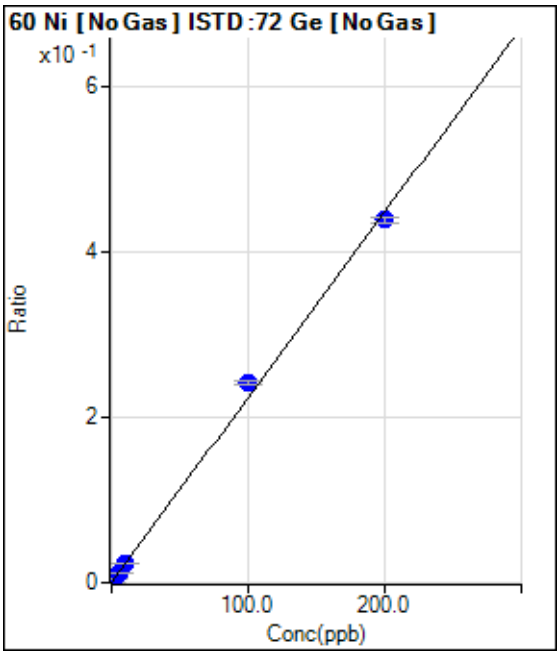
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.34	0.0009	P	14.4
2	☐	2.000	2.015	12545.95	0.0331	P	3.8
3	☐	5.000	5.019	31116.01	0.0810	P	1.1
4	☐	10.000	10.307	63421.04	0.1655	P	1.5
5	☐	100.000	102.450	621191.84	1.6370	P	0.7
6	☐	200.000	198.759	1186103.26	3.1751	A	2.0

y = 0.0160 * x + 8.7395E-004
R = 0.9999
DL = 0.02358
BEC = 0.05472

Weight: <None>
Min Conc: <None>

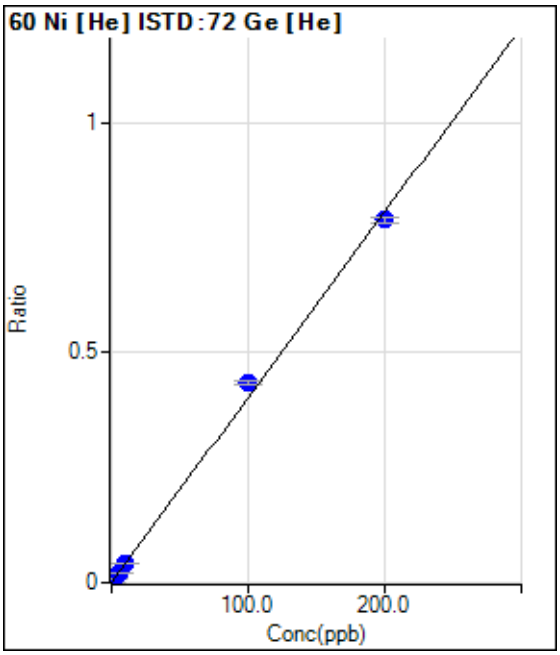


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	336.68	0.0002	P	1.4
2	☐	2.000	2.078	8169.24	0.0049	P	1.8
3	☐	5.000	5.070	19490.92	0.0116	P	1.2
4	☐	10.000	10.557	39728.22	0.0238	P	1.1
5	☐	100.000	108.079	406256.71	0.2423	P	2.7
6	☐	200.000	195.930	724402.02	0.4390	P	1.7

y = 0.0022 * x + 2.0132E-004
R = 0.9988
DL = 0.003787
BEC = 0.08989

Weight: <None>
Min Conc: <None>

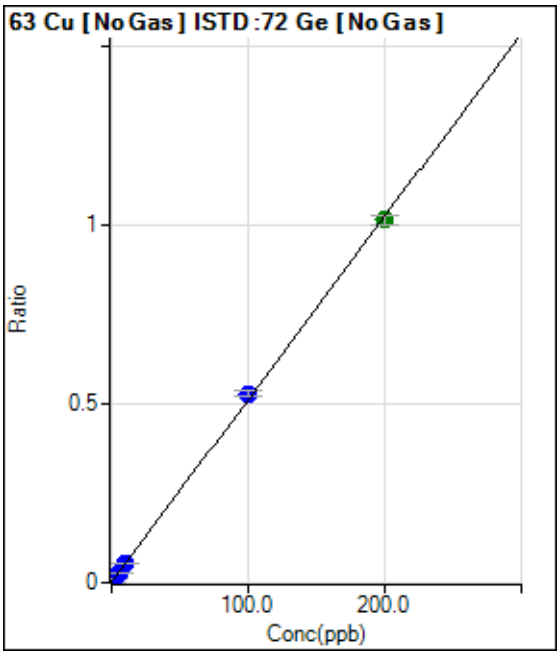
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0004	P	29.2
2	☐	2.000	1.979	3160.41	0.0083	P	2.7
3	☐	5.000	5.170	8125.92	0.0212	P	2.5
4	☐	10.000	10.249	15929.61	0.0416	P	3.4
5	☐	100.000	108.201	165216.18	0.4354	P	2.1
6	☐	200.000	195.883	294319.40	0.7879	P	1.6

y = 0.0040 * x + 3.6740E-004
R = 0.9988
DL = 0.07999
BEC = 0.09139

Weight: <None>
Min Conc: <None>

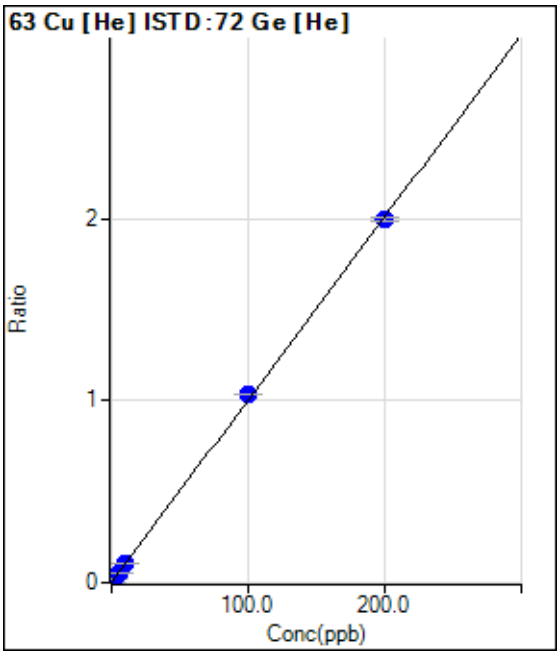


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1433.43	0.0009	P	0.7
2	☐	2.000	2.038	18956.78	0.0113	P	1.9
3	☐	5.000	5.159	45874.31	0.0272	P	2.3
4	☐	10.000	10.429	90151.51	0.0541	P	2.3
5	☐	100.000	103.411	886838.66	0.5289	P	2.9
6	☐	200.000	198.269	1671720.86	1.0133	A	2.5

y = 0.0051 * x + 8.5704E-004
R = 0.9998
DL = 0.003447
BEC = 0.1678

Weight: <None>
Min Conc: <None>

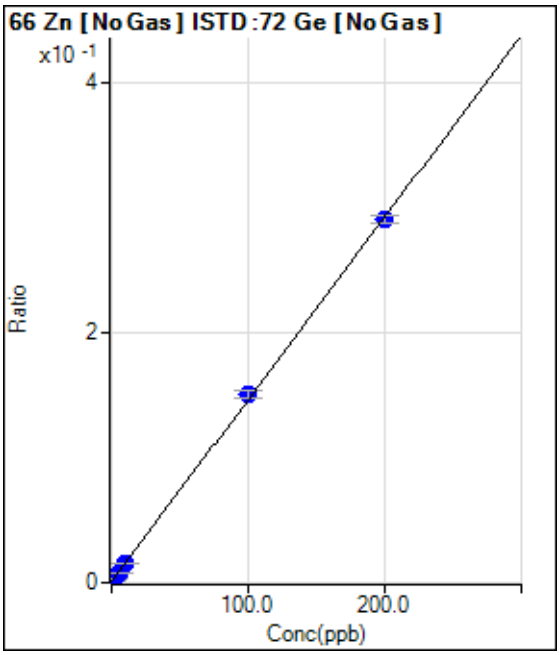
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	593.36	0.0016	P	7.8
2	☐	2.000	2.096	8572.84	0.0226	P	3.5
3	☐	5.000	5.081	20168.51	0.0525	P	2.7
4	☐	10.000	10.228	39918.94	0.1042	P	2.3
5	☐	100.000	102.851	392077.82	1.0333	P	0.6
6	☐	200.000	198.560	744678.12	1.9934	P	1.2

y = 0.0100 * x + 0.0016
R = 0.9999
DL = 0.03631
BEC = 0.1551

Weight: <None>
Min Conc: <None>

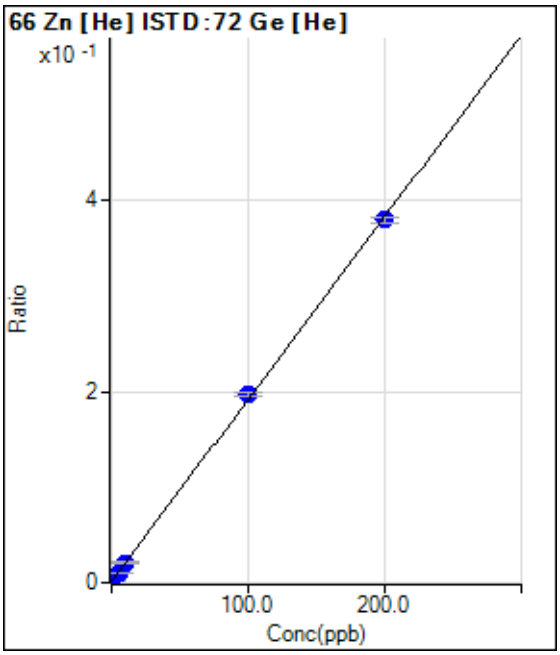


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1340.10	0.0008	P	3.4
2	☐	2.000	2.084	6464.99	0.0038	P	3.3
3	☐	5.000	4.905	13423.58	0.0080	P	2.7
4	☐	10.000	9.866	25313.84	0.0152	P	2.4
5	☐	100.000	102.679	252458.28	0.1506	P	3.9
6	☐	200.000	198.669	479503.51	0.2906	P	2.0

y = 0.0015 * x + 8.0133E-004
R = 0.9999
DL = 0.05528
BEC = 0.5493

Weight: <None>
Min Conc: <None>

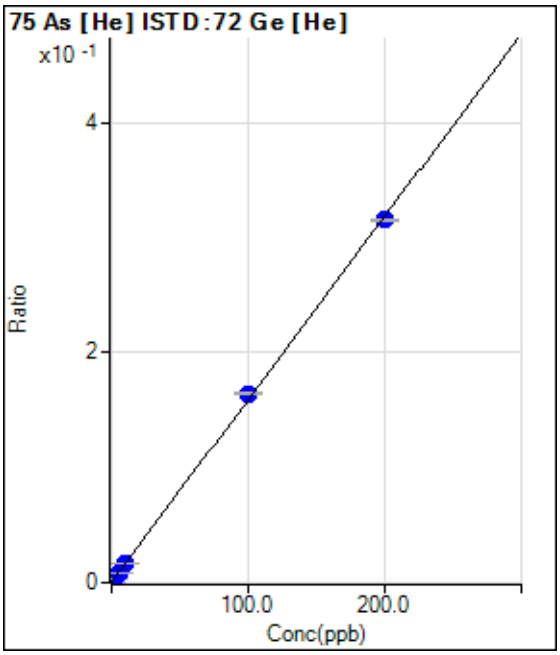
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	453.35	0.0012	P	22.8
2	☐	2.000	2.148	2006.85	0.0053	P	8.7
3	☐	5.000	4.815	3980.64	0.0104	P	3.0
4	☐	10.000	10.351	8015.84	0.0209	P	2.2
5	☐	100.000	102.966	74907.15	0.1974	P	1.6
6	☐	200.000	198.502	141802.68	0.3795	P	1.9

y = 0.0019 * x + 0.0012
R = 0.9998
DL = 0.4272
BEC = 0.6245

Weight: <None>
Min Conc: <None>

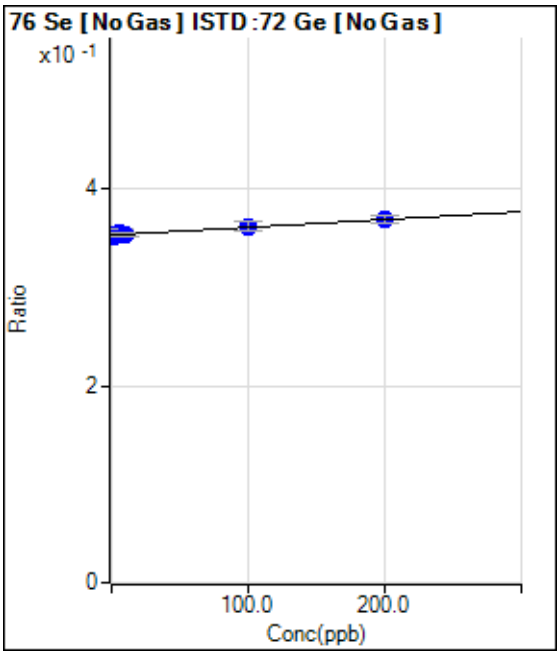


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0004	P	8.1
2	☐	2.000	1.922	1294.51	0.0034	P	2.7
3	☐	5.000	4.845	3090.37	0.0081	P	5.9
4	☐	10.000	10.116	6294.84	0.0164	P	1.7
5	☐	100.000	103.408	62457.16	0.1646	P	0.9
6	☐	200.000	198.295	117805.41	0.3153	P	0.4

y = 0.0016 * x + 3.5790E-004
R = 0.9998
DL = 0.05446
BEC = 0.2253

Weight: <None>
Min Conc: <None>

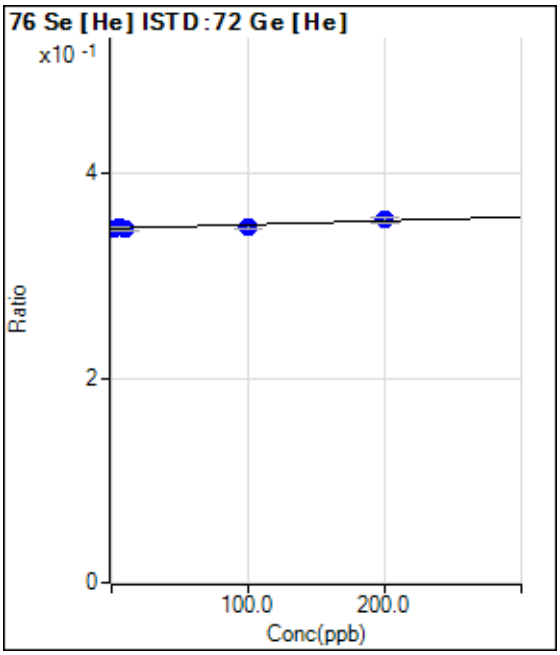
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	590430.42	0.3530	P	0.9
2	☐	2.000	-12.556	592397.88	0.3520	P	0.6
3	☐	5.000	38.698	600543.52	0.3561	P	1.9
4	☐	10.000	7.834	589249.60	0.3537	P	1.0
5	☐	100.000	109.738	606617.14	0.3617	P	2.5
6	☐	200.000	194.542	607910.41	0.3684	P	2.2

y = 7.9187E-005 * x + 0.3530
R = 0.9788
DL = 119.5
BEC = 4458

Weight: <None>
Min Conc: <None>

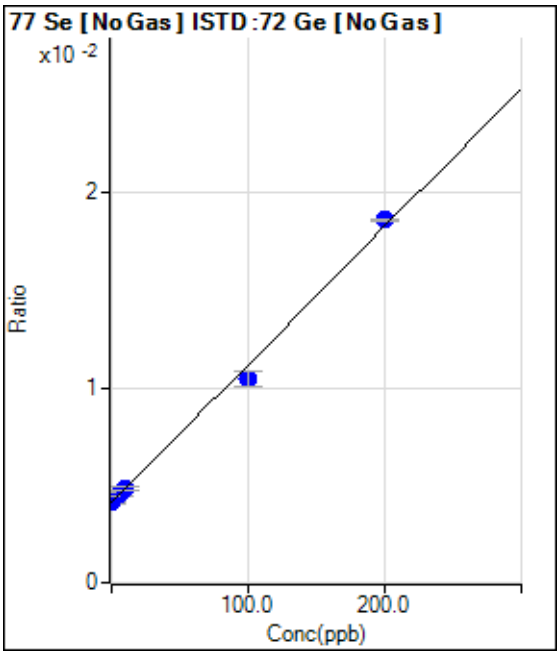


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	132281.93	0.3467	P	3.1
2	☐	2.000	-19.549	131281.57	0.3459	P	0.9
3	☐	5.000	22.197	133461.60	0.3475	P	0.7
4	☐	10.000	-16.696	132608.58	0.3460	P	1.2
5	☐	100.000	59.862	132382.12	0.3489	P	1.1
6	☐	200.000	221.189	132607.70	0.3550	P	1.8

y = 3.7662E-005 * x + 0.3467
R = 0.9646
DL = 862.6
BEC = 9204

Weight: <None>
Min Conc: <None>

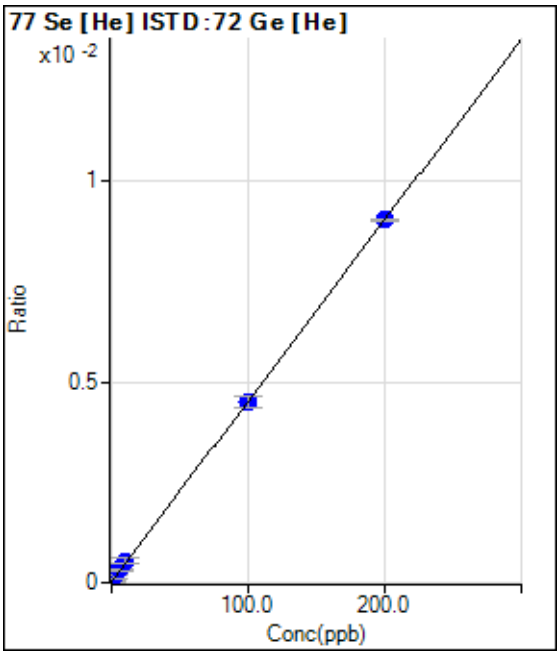
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6845.19	0.0041	P	2.2
2	☐	2.000	3.889	7348.80	0.0044	P	0.3
3	☐	5.000	6.388	7665.65	0.0045	P	5.9
4	☐	10.000	10.442	8049.23	0.0048	P	4.0
5	☐	100.000	90.336	17578.43	0.0105	P	7.6
6	☐	200.000	204.756	30691.99	0.0186	P	0.5

y = 7.0852E-005 * x + 0.0041
R = 0.9982
DL = 3.883
BEC = 57.75

Weight: <None>
Min Conc: <None>

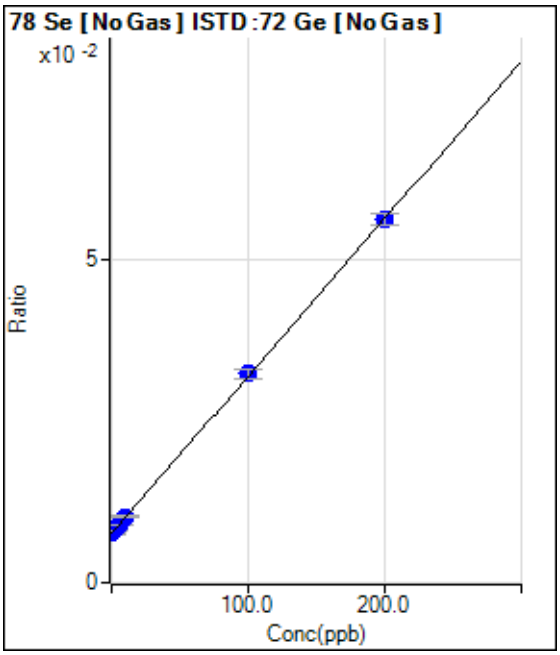


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	2.000	2.542	50.00	0.0001	P	60.0
3	☐	5.000	6.569	120.00	0.0003	P	23.7
4	☐	10.000	11.598	206.67	0.0005	P	29.7
5	☐	100.000	99.326	1703.47	0.0045	P	6.7
6	☐	200.000	200.212	3373.81	0.0090	P	0.2

y = 4.5016E-005 * x + 1.7599E-005
R = 1.0000
DL = 1.016
BEC = 0.3909

Weight: <None>
Min Conc: <None>

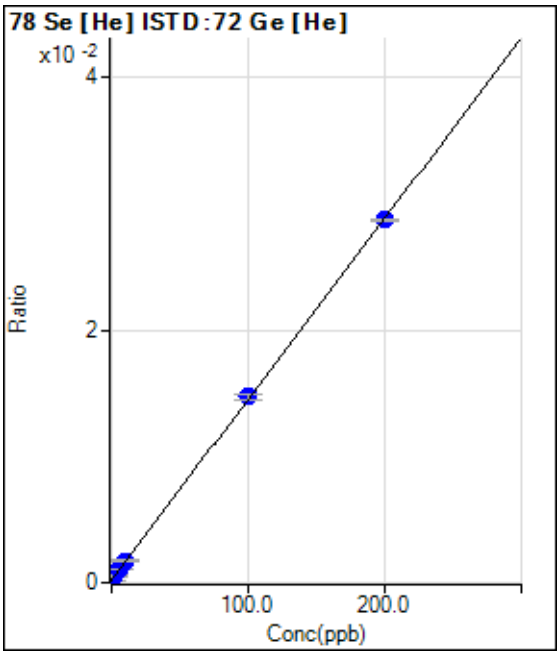
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12759.59	0.0076	P	4.6
2	☐	2.000	2.246	13763.98	0.0082	P	2.1
3	☐	5.000	5.609	15182.08	0.0090	P	1.5
4	☐	10.000	10.719	17074.35	0.0102	P	1.6
5	☐	100.000	101.441	54323.02	0.0324	P	4.2
6	☐	200.000	199.226	92842.46	0.0563	P	3.1

y = 2.4416E-004 * x + 0.0076
R = 1.0000
DL = 4.359
BEC = 31.25

Weight: <None>
Min Conc: <None>

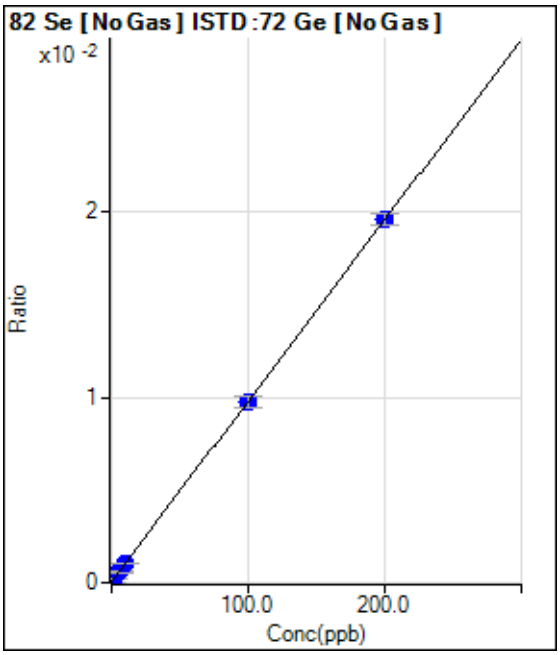


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.67	0.0002	P	15.4
2	☐	2.000	2.184	198.67	0.0005	P	12.3
3	☐	5.000	5.721	395.34	0.0010	P	4.0
4	☐	10.000	10.682	666.02	0.0017	P	3.8
5	☐	100.000	101.265	5572.51	0.0147	P	3.3
6	☐	200.000	199.314	10720.29	0.0287	P	0.9

y = 1.4291E-004 * x + 2.1103E-004
R = 1.0000
DL = 0.6828
BEC = 1.477

Weight: <None>
Min Conc: <None>

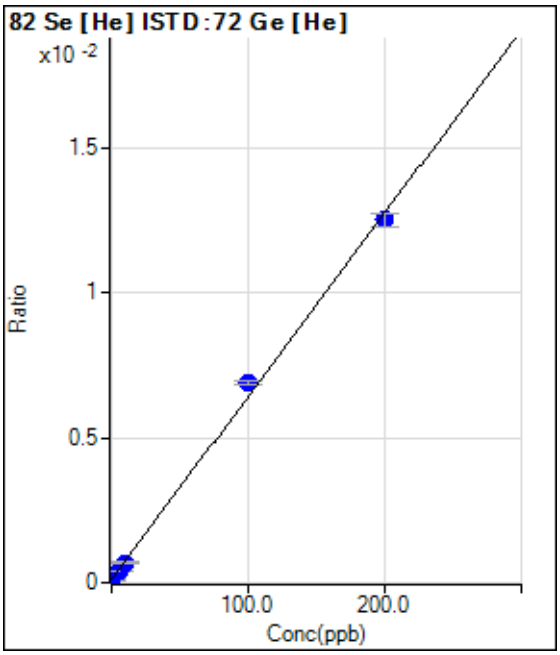
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.87	0.0000	P	13.4
2	☐	2.000	1.441	311.67	0.0002	P	16.0
3	☐	5.000	5.532	985.21	0.0006	P	12.8
4	☐	10.000	10.154	1725.31	0.0010	P	0.4
5	☐	100.000	99.494	16348.44	0.0098	P	5.9
6	☐	200.000	200.238	32307.67	0.0196	P	3.2

y = 9.7576E-005 * x + 4.4674E-005
R = 1.0000
DL = 0.184
BEC = 0.4578

Weight: <None>
Min Conc: <None>

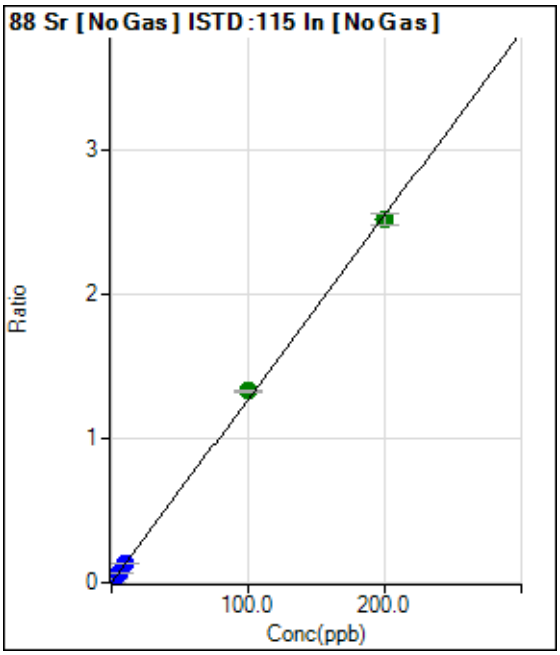


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	72.9
2	☐	2.000	2.801	110.00	0.0003	P	9.6
3	☐	5.000	4.382	150.00	0.0004	P	11.3
4	☐	10.000	9.214	266.68	0.0007	P	8.6
5	☐	100.000	107.278	2616.97	0.0069	P	1.7
6	☐	200.000	196.408	4684.24	0.0125	P	3.9

y = 6.3245E-005 * x + 1.1277E-004
R = 0.9990
DL = 3.897
BEC = 1.783

Weight: <None>
Min Conc: <None>

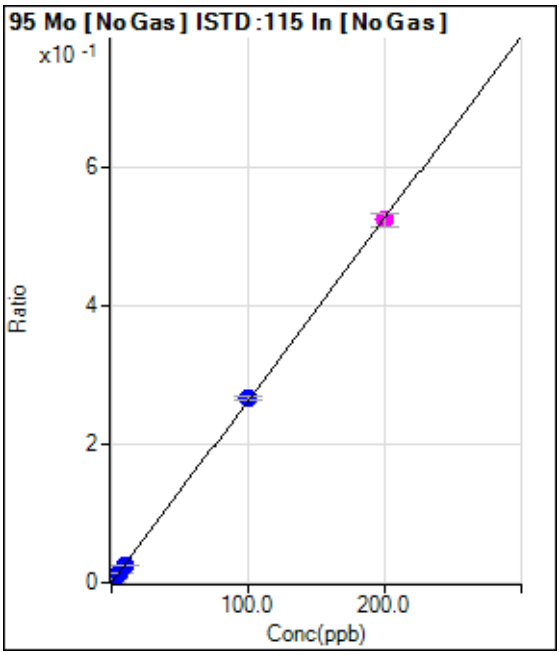
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	553.36	0.0003	P	8.4
2	☐	2.000	2.067	48655.63	0.0266	P	0.5
3	☐	5.000	5.251	123564.22	0.0672	P	2.1
4	☐	10.000	10.265	247397.27	0.1311	P	0.5
5	☐	100.000	104.604	2438915.49	1.3333	A	0.9
6	☐	200.000	197.678	4560698.58	2.5194	A	3.1

y = 0.0127 * x + 2.9579E-004
R = 0.9996
DL = 0.005856
BEC = 0.02321

Weight: <None>
Min Conc: <None>

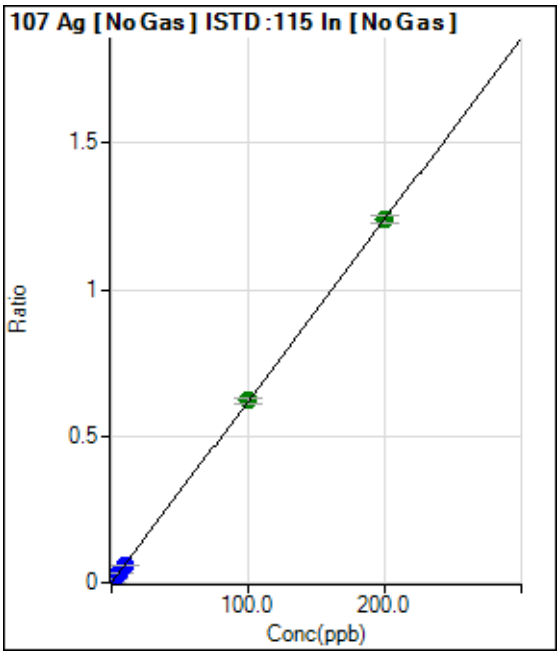


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.34	0.0001	P	28.8
2	☐	2.000	1.924	9356.75	0.0051	P	2.2
3	☐	5.000	4.933	23948.59	0.0130	P	2.1
4	☐	10.000	9.704	48237.92	0.0256	P	2.3
5	☐	100.000	101.603	488242.35	0.2669	P	2.3
6	☐	200.000	199.216	947239.85	0.5233	M	3.4

y = 0.0026 * x + 7.0973E-005
R = 1.0000
DL = 0.02333
BEC = 0.02702

Weight: <None>
Min Conc: <None>

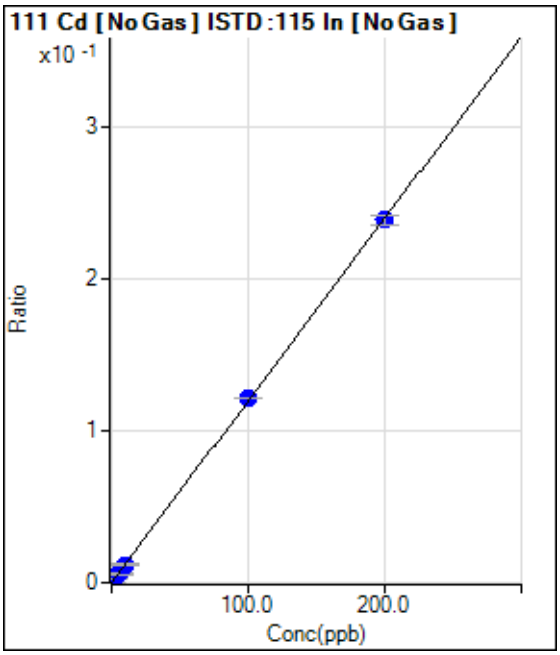
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	20.9
2	☐	2.000	2.078	23674.75	0.0130	P	2.9
3	☐	5.000	5.017	57280.68	0.0312	P	3.1
4	☐	10.000	9.960	116559.08	0.0618	P	1.4
5	☐	100.000	100.259	1135667.01	0.6209	A	2.8
6	☐	200.000	199.871	2241233.20	1.2378	A	2.2

y = 0.0062 * x + 9.4472E-005
R = 1.0000
DL = 0.009561
BEC = 0.01526

Weight: <None>
Min Conc: <None>

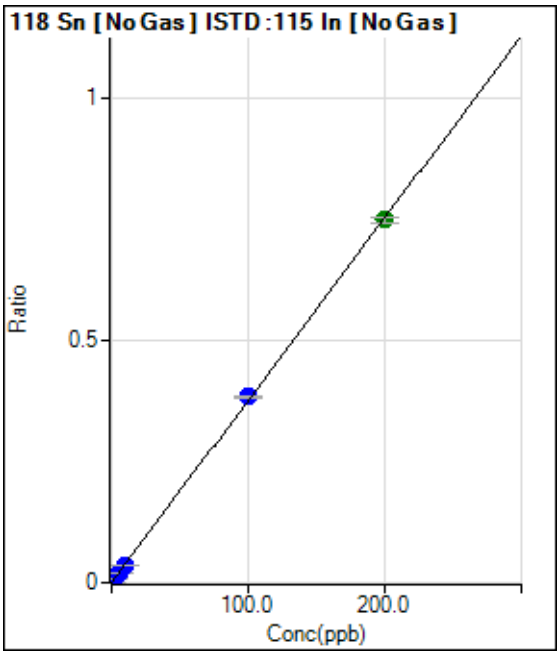


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.76	0.0000	P	87.3
2	☐	2.000	2.021	4435.89	0.0024	P	5.0
3	☐	5.000	4.825	10633.34	0.0058	P	3.8
4	☐	10.000	9.878	22317.65	0.0118	P	4.9
5	☐	100.000	101.246	221614.64	0.1211	P	0.4
6	☐	200.000	199.387	431835.76	0.2386	P	2.9

y = 0.0012 * x + 1.0460E-005
R = 1.0000
DL = 0.0229
BEC = 0.008743

Weight: <None>
Min Conc: <None>

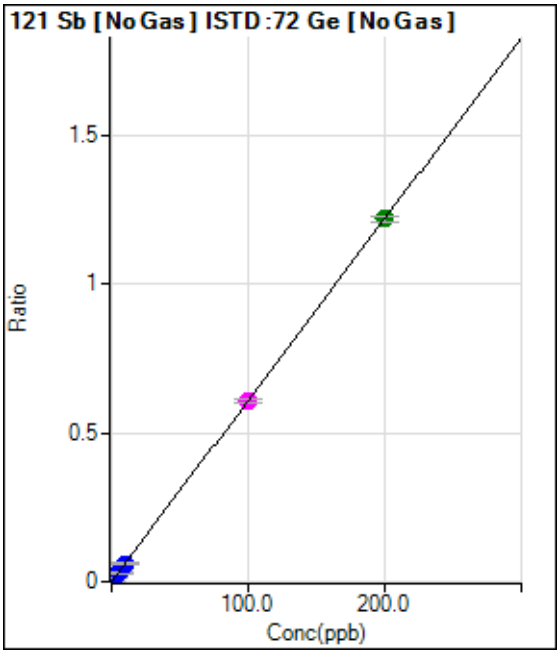
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	573.36	0.0003	P	5.1
2	☐	2.000	1.935	13854.29	0.0076	P	1.6
3	☐	5.000	5.011	35217.57	0.0192	P	3.4
4	☐	10.000	9.801	70167.74	0.0372	P	0.9
5	☐	100.000	101.822	701433.27	0.3834	P	0.8
6	☐	200.000	199.099	1356844.09	0.7494	A	1.7

y = 0.0038 * x + 3.0604E-004
R = 0.9999
DL = 0.01233
BEC = 0.08134

Weight: <None>
Min Conc: <None>

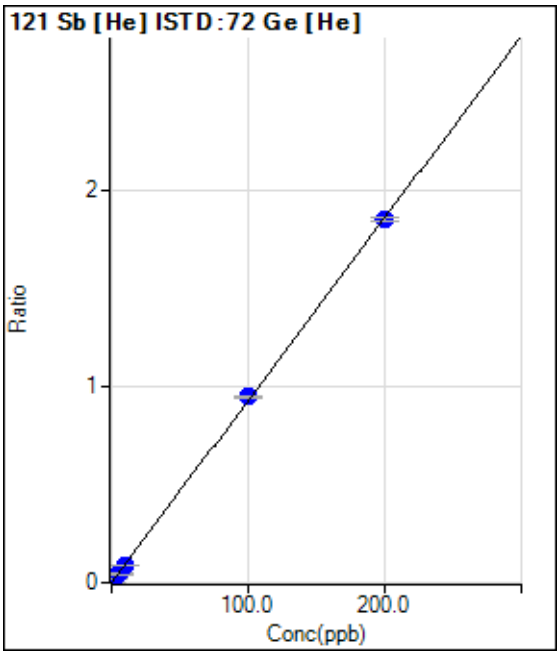


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.00	0.0001	P	17.8
2	☐	2.000	1.908	19755.24	0.0117	P	2.6
3	☐	5.000	4.847	50028.84	0.0297	P	3.8
4	☐	10.000	10.049	102307.69	0.0614	P	0.8
5	☐	100.000	99.786	1021053.89	0.6088	M	2.1
6	☐	200.000	200.109	2014435.44	1.2208	A	1.3

y = 0.0061 * x + 1.0192E-004
R = 1.0000
DL = 0.008898
BEC = 0.01671

Weight: <None>
Min Conc: <None>

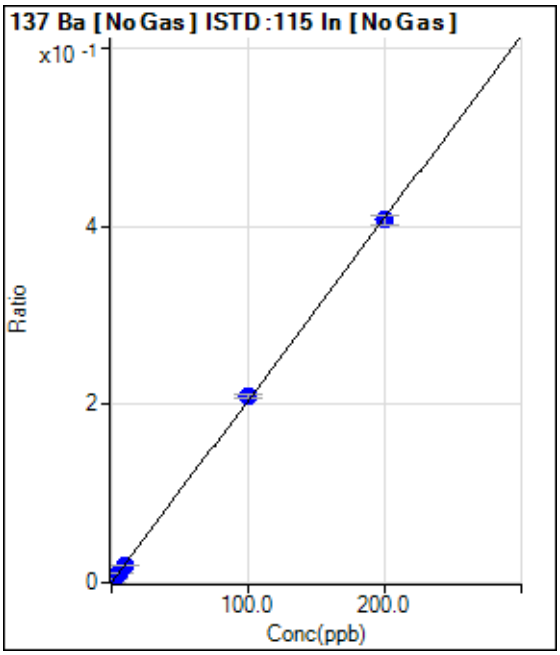
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0001	P	35.6
2	☐	2.000	1.894	6698.51	0.0176	P	5.8
3	☐	5.000	4.779	17031.28	0.0444	P	5.5
4	☐	10.000	9.680	34412.15	0.0898	P	3.3
5	☐	100.000	101.847	358191.31	0.9439	P	0.9
6	☐	200.000	199.099	689345.95	1.8452	P	1.0

y = 0.0093 * x + 8.7600E-005
R = 0.9999
DL = 0.01009
BEC = 0.009453

Weight: <None>
Min Conc: <None>

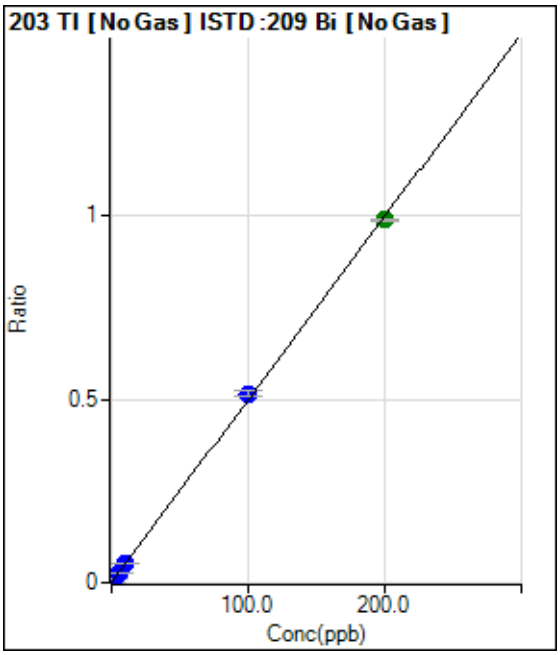


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.68	0.0001	P	18.0
2	☐	2.000	2.058	7865.87	0.0043	P	5.9
3	☐	5.000	4.878	18526.82	0.0101	P	1.8
4	☐	10.000	9.858	38236.59	0.0203	P	1.4
5	☐	100.000	101.969	381605.67	0.2086	P	2.1
6	☐	200.000	199.025	736990.41	0.4071	P	2.8

y = 0.0020 * x + 9.9582E-005
R = 0.9999
DL = 0.0263
BEC = 0.04869

Weight: <None>
Min Conc: <None>

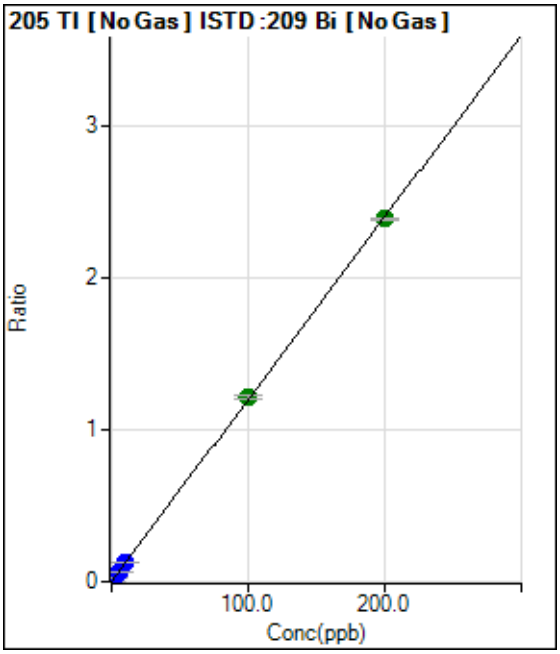
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	810.05	0.0006	P	6.8
2	☐	2.000	2.015	15756.91	0.0106	P	5.3
3	☐	5.000	5.191	39275.61	0.0264	P	4.2
4	☐	10.000	10.449	77952.82	0.0526	P	4.2
5	☐	100.000	103.359	741646.21	0.5158	P	2.4
6	☐	200.000	198.293	1410613.94	0.9890	A	0.8

y = 0.0050 * x + 5.5932E-004
R = 0.9998
DL = 0.02302
BEC = 0.1122

Weight: <None>
Min Conc: <None>

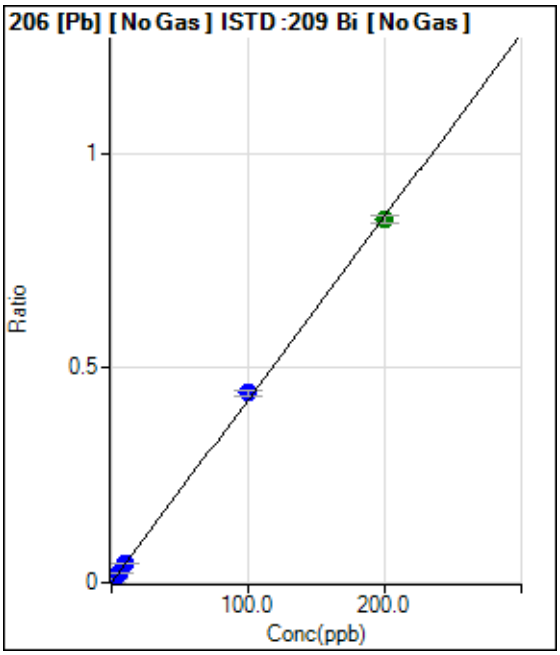


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1823.51	0.0013	P	7.2
2	☐	2.000	2.018	37834.57	0.0255	P	2.6
3	☐	5.000	5.144	93560.59	0.0629	P	1.0
4	☐	10.000	10.293	184589.07	0.1247	P	2.1
5	☐	100.000	101.631	1753958.05	1.2196	A	2.0
6	☐	200.000	199.166	3406931.61	2.3889	A	0.8

y = 0.0120 * x + 0.0013
R = 1.0000
DL = 0.02273
BEC = 0.105

Weight: <None>
Min Conc: <None>

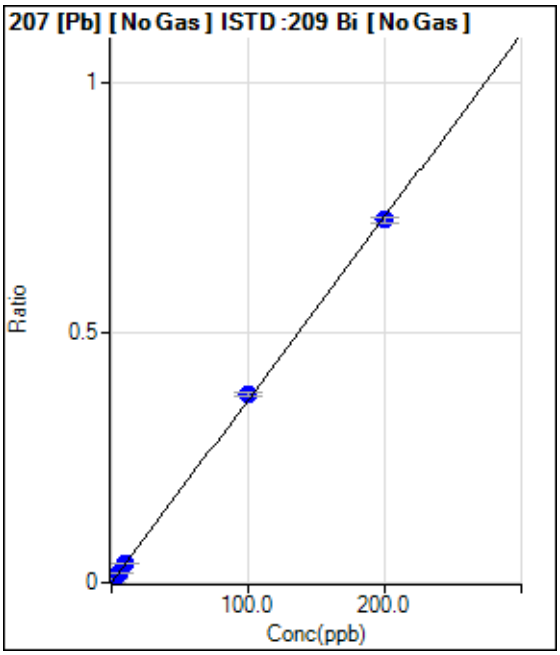
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	240.01	0.0002	P	27.8
2	☐	2.000	1.969	12733.41	0.0086	P	3.3
3	☐	5.000	5.014	32055.28	0.0216	P	3.0
4	☐	10.000	10.120	64201.87	0.0434	P	1.4
5	☐	100.000	103.574	635756.46	0.4422	P	2.9
6	☐	200.000	198.207	1206415.97	0.8460	A	2.1

y = 0.0043 * x + 1.6627E-004
R = 0.9998
DL = 0.03248
BEC = 0.03896

Weight: <None>
Min Conc: <None>

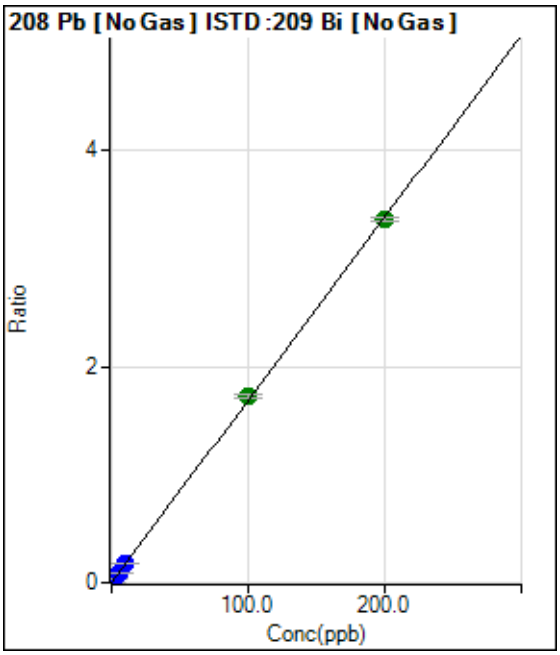


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0001	P	22.0
2	☐	2.000	1.902	10538.01	0.0071	P	2.2
3	☐	5.000	4.951	27116.55	0.0182	P	2.4
4	☐	10.000	10.144	55162.26	0.0373	P	2.4
5	☐	100.000	103.162	543225.26	0.3778	P	1.5
6	☐	200.000	198.414	1035948.22	0.7265	P	1.4

y = 0.0037 * x + 1.2180E-004
R = 0.9998
DL = 0.02196
BEC = 0.03327

Weight: <None>
Min Conc: <None>

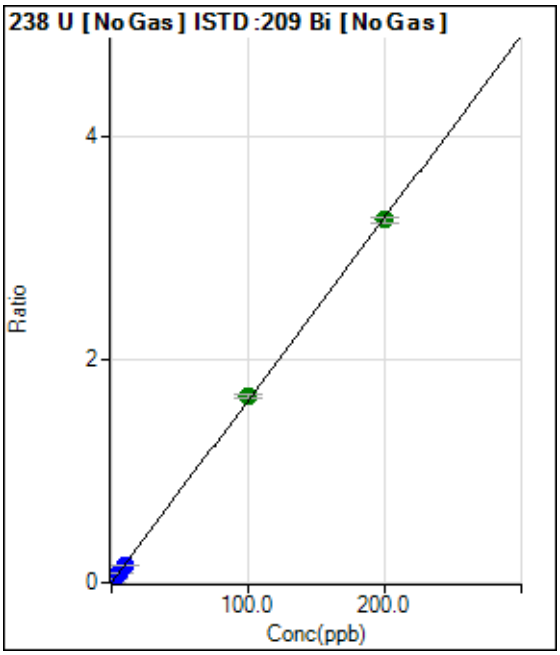
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	860.03	0.0006	P	5.2
2	☐	2.000	1.952	49863.49	0.0335	P	1.9
3	☐	5.000	4.970	125585.56	0.0845	P	1.3
4	☐	10.000	10.121	253859.02	0.1714	P	2.3
5	☐	100.000	102.410	2486454.18	1.7293	A	2.6
6	☐	200.000	198.790	4786374.52	3.3562	A	1.0

y = 0.0169 * x + 5.9369E-004
R = 0.9999
DL = 0.005527
BEC = 0.03517

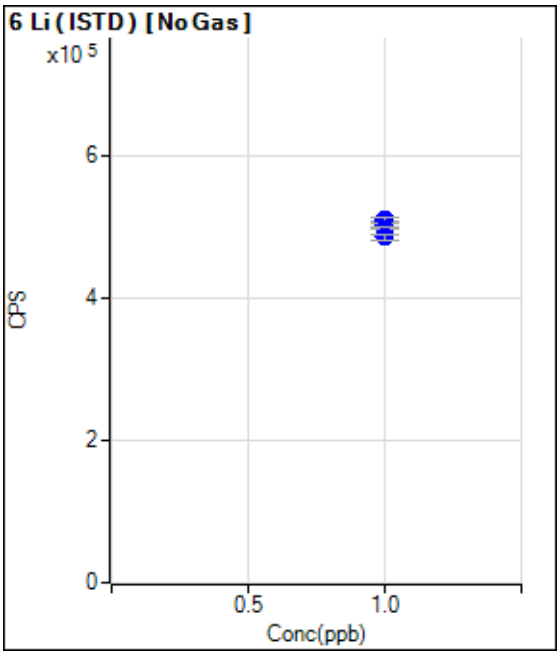
Weight: <None>
Min Conc: <None>



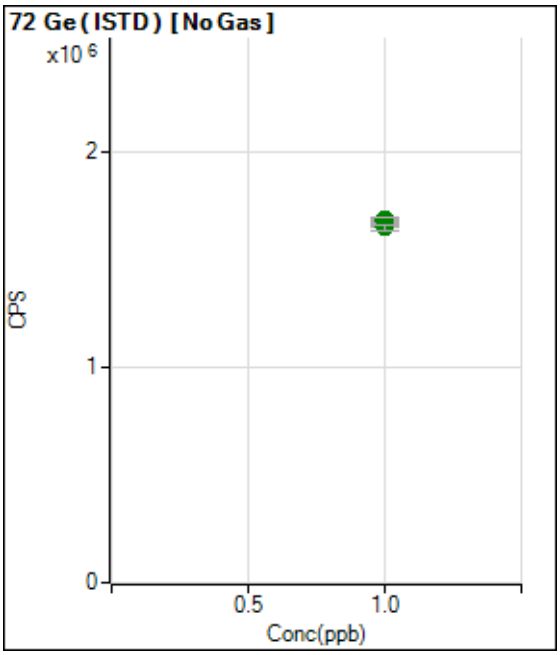
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206.67	0.0001	P	34.5
2	☐	2.000	1.922	47043.98	0.0316	P	2.4
3	☐	5.000	4.865	118703.05	0.0799	P	2.8
4	☐	10.000	9.807	238189.20	0.1609	P	2.6
5	☐	100.000	102.232	2409374.76	1.6756	A	2.1
6	☐	200.000	198.898	4648517.23	3.2598	A	1.4

y = 0.0164 * x + 1.4320E-004
R = 0.9999
DL = 0.009052
BEC = 0.008738

Weight: <None>
Min Conc: <None>

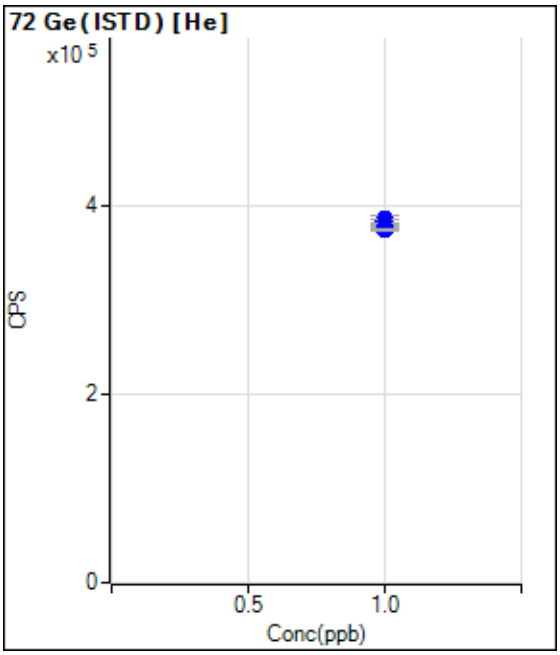


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		502306.34		P	1.4
2	☐	1.000		507143.08		P	0.8
3	☐	1.000		510710.82		P	1.2
4	☐	1.000		509134.45		P	1.6
5	☐	1.000		498327.12		P	0.5
6	☐	1.000		486976.88		P	1.7

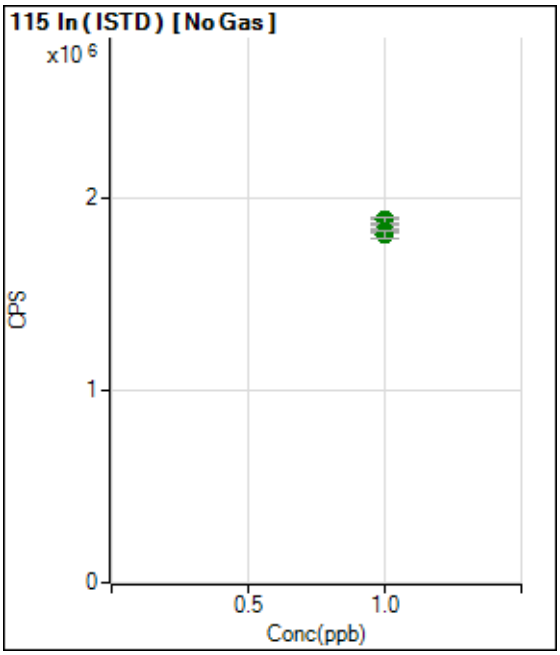


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1672653.26		A	2.5
2	☐	1.000		1682735.55		A	0.1
3	☐	1.000		1686776.96		A	1.6
4	☐	1.000		1666188.26		A	0.6
5	☐	1.000		1677637.27		A	2.7
6	☐	1.000		1650290.81		A	1.6

Calibration for 022_ICV.d

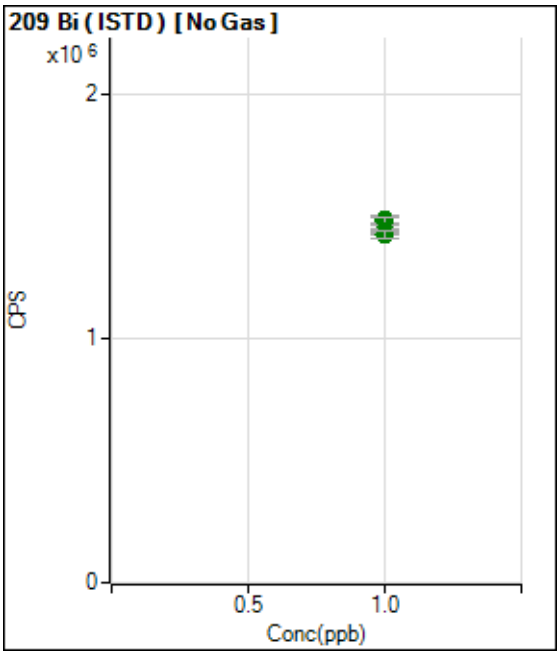


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		381709.71		P	1.4
2	☐	1.000		379541.80		P	1.1
3	☐	1.000		384102.74		P	2.5
4	☐	1.000		383257.55		P	0.9
5	☐	1.000		379443.84		P	0.9
6	☐	1.000		373603.21		P	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1872489.39		A	1.7
2	☐	1.000		1826438.46		A	1.0
3	☐	1.000		1838690.05		A	1.8
4	☐	1.000		1887106.58		A	1.6
5	☐	1.000		1829335.53		A	1.3
6	☐	1.000		1810934.78		A	2.3

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1449391.80		A	2.2
2	☐	1.000		1486779.77		A	1.9
3	☐	1.000		1486750.66		A	2.7
4	☐	1.000		1481241.59		A	2.5
5	☐	1.000		1438260.76		A	1.8
6	☐	1.000		1426251.65		A	1.7

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	024LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:24:24-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	015CALB.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	2.031	2.031	1.93	47498	0.00	2	
Be	9	1	No Gas	1.943	1.943	3.14	4387	0.04	2	
V	51	2	He	1.825	1.825	6.12	9695	0.02	2	
Cr	52	2	He	2.139	2.139	3.49	15079	0.01	2	
Fe	56	2	He	210.859	210.859	3.26	779603	0.03	200	
Se	78	2	He	2.273	2.273	4.07	205	1.11	2	
As	75	2	He	1.937	1.937	4.71	1311	0.15	2	
Ca	44	2	He	194.959	194.959	7.17	5591	3.49	200	
Na	23	2	He	216.029	216.029	2.27	211350	0.10	200	
Mg	24	2	He	217.069	217.069	2.27	89329	0.24	200	
K	39	2	He	207.634	207.634	2.95	203012	0.10	200	
Mn	55	2	He	1.874	1.874	0.84	7692	0.02	2	
Co	59	2	He	2.048	2.048	3.26	12830	0.02	2	
Ni	60	2	He	2.002	2.002	5.79	3214	0.06	2	
Cu	63	2	He	2.062	2.062	3.26	8493	0.02	2	
Zn	66	2	He	2.174	2.174	1.58	2037	0.11	2	
Al	27	2	He	2.142	2.142	21.25	1123	0.19	2	
B	11	1	No Gas	13.960	13.960	1.46	27911	0.05	10	NewName Main CR1 Failed
Al	27	1	No Gas	2.536	2.536	1.63	47816	0.01	2	
Si	28	1	No Gas	10.314	10.314	5.42	357204	0.00	10	
Ag	107	1	No Gas	2.003	2.003	3.70	23899	0.01	2	
Cd	111	1	No Gas	2.078	2.078	2.88	4777	0.04	2	
Sr	88	1	No Gas	2.025	2.025	1.13	49934	0.00	2	
Mo	95	1	No Gas	1.905	1.905	3.06	9704	0.02	2	
Sn	118	1	No Gas	2.001	2.001	1.97	14986	0.01	2	
Sb	121	1	No Gas	1.985	1.985	2.14	20613	0.01	2	
Ba	137	1	No Gas	1.926	1.926	1.04	7726	0.02	2	
Tl	205	1	No Gas	2.159	2.159	2.43	40209	0.01	2	
Tl	203	1	No Gas	2.181	2.181	3.71	16928	0.01	2	
Pb	208	1	No Gas	2.067	2.067	2.10	52575	0.00	2	
U	238	1	No Gas	1.972	1.972	2.07	48098	0.00	2	
Ca	43	2	He	164.844	164.844	5.18	303	54.34	200	
Sb	121	2	He	2.040	2.040	4.09	7252	0.03	2	
Ti	47	2	He	2.307	2.307	30.00	343	0.67	200	
Cu	63	1	No Gas	2.088	2.088	2.49	19448	0.01	2	
Se	82	1	No Gas	1.981	1.981	9.57	402	0.49	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	529252	0.56	502306	105.36	70	120	
Ge	72	2	He	381920	0.86	381710	100.06	70	120	
Ge	72	1	No Gas	1688533	0.30	1672653	100.95	70	120	
In	115	1	No Gas	1912875	1.20	1872489	102.16	70	120	
Bi	209	1	No Gas	1481918	2.17	1449392	102.24	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	025LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:26:21-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	015CALB.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	4.869	4.869	4.39	67012	0.01	5	
Be	9	1	No Gas	4.625	4.625	4.24	10302	0.04	5	
V	51	2	He	4.640	4.640	2.16	21018	0.02	5	
Cr	52	2	He	4.987	4.987	0.80	27879	0.02	5	
Fe	56	2	He	509.681	509.681	2.08	1866523	0.03	500	
Se	78	2	He	4.668	4.668	8.38	336	1.39	5	
As	75	2	He	5.101	5.101	0.39	3238	0.16	5	
Ca	44	2	He	485.355	485.355	1.79	13347	3.64	500	
Na	23	2	He	533.750	533.750	0.38	432284	0.12	500	
Mg	24	2	He	546.228	546.228	0.72	224497	0.24	500	
K	39	2	He	517.979	517.979	0.48	368439	0.14	500	
Mn	55	2	He	4.888	4.888	2.71	17128	0.03	5	
Co	59	2	He	4.897	4.897	2.98	30264	0.02	5	
Ni	60	2	He	4.928	4.928	1.13	7722	0.06	5	
Cu	63	2	He	5.052	5.052	4.31	19992	0.03	5	
Zn	66	2	He	4.942	4.942	10.73	4061	0.12	5	
Al	27	2	He	5.502	5.502	17.08	2000	0.28	5	
B	11	1	No Gas	27.257	27.257	4.46	46082	0.06	25	
Al	27	1	No Gas	5.103	5.103	4.23	75596	0.01	5	
Si	28	1	No Gas	24.346	24.346	6.85	440019	0.01	25	
Ag	107	1	No Gas	5.059	5.059	1.71	59236	0.01	5	
Cd	111	1	No Gas	4.706	4.706	3.67	10639	0.04	5	
Sr	88	1	No Gas	4.996	4.996	1.36	120598	0.00	5	
Mo	95	1	No Gas	4.728	4.728	3.05	23544	0.02	5	
Sn	118	1	No Gas	4.857	4.857	0.35	35037	0.01	5	
Sb	121	1	No Gas	4.679	4.679	2.81	48781	0.01	5	
Ba	137	1	No Gas	4.845	4.845	4.26	18874	0.03	5	
Tl	205	1	No Gas	5.129	5.129	3.19	94111	0.01	5	
Tl	203	1	No Gas	5.122	5.122	3.00	39135	0.01	5	
Pb	208	1	No Gas	4.947	4.947	2.29	126145	0.00	5	
U	238	1	No Gas	4.919	4.919	1.57	121150	0.00	5	
Ca	43	2	He	455.058	455.058	11.59	763	59.61	500	
Sb	121	2	He	4.839	4.839	2.22	17198	0.03	5	
Ti	47	2	He	4.787	4.787	18.74	713	0.67	5	
Cu	63	1	No Gas	5.149	5.149	2.83	46232	0.01	5	
Se	82	1	No Gas	5.072	5.072	12.97	918	0.55	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	524484	2.17	502306	104.42	70	120	
Ge	72	2	He	382712	0.74	381710	100.26	70	120	
Ge	72	1	No Gas	1703686	2.37	1672653	101.86	70	120	

Sample Report

In	115	1	No Gas	1885649	1.79	1872489	100.70	70	120	
Bi	209	1	No Gas	1500321	2.02	1449392	103.51	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	026_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:28:18-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	-0.269	-22.1	32887	3.4	0.5	
Be	9	1	No Gas	0.001	545.8	33	31.2	0.5	
V	51	2	He	-0.412	-3.9	740	8.9	2.5	
Cr	52	2	He	-0.570	-1.3	3000	0.9	2.5	
Fe	56	2	He	0.174	35.9	16300	1.8	100	
Se	78	2	He	0.214	62.3	93	7.5	1	
As	75	2	He	-0.113	-19.3	69	19.5	2.5	
Ca	44	2	He	-3.293	-72.2	323	20.1	100	
Na	23	2	He	4.756	24.9	65825	0.9	100	
Mg	24	2	He	0.138	33.5	577	3.6	100	
K	39	2	He	-3.076	-154.6	92310	2.4	100	
Mn	55	2	He	0.238	8.5	2620	2.7	2.5	
Co	59	2	He	0.038	16.5	573	6.6	2.5	
Ni	60	2	He	-0.029	-34.4	97	15.8	2.5	
Cu	63	2	He	0.045	36.5	773	7.8	1	
Zn	66	2	He	-0.122	-107.9	370	25.8	2.5	
Al	27	2	He	0.061	343.2	590	9.0	5	
B	11	1	No Gas	1.849	5.9	11556	0.9	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-0.162	-34.7	19744	4.4	5	
Si	28	1	No Gas	3.638	24.6	326905	0.6	10	
Ag	107	1	No Gas	-0.004	-119.7	133	41.3	2.5	
Cd	111	1	No Gas	-0.009	-49.8	0	-2056.6	1	
Sr	88	1	No Gas	-0.002	-53.6	500	5.3	2.5	
Mo	95	1	No Gas	0.011	56.0	190	15.8	2.5	
Sn	118	1	No Gas	0.032	23.7	803	6.9	5	
Sb	121	1	No Gas	0.037	18.5	567	14.2	2.5	
Ba	137	1	No Gas	0.002	1231.2	193	38.1	2.5	
Tl	205	1	No Gas	0.016	5.4	2177	2.5	1	
Tl	203	1	No Gas	0.003	250.6	863	4.7	1	
Pb	208	1	No Gas	-0.005	-31.3	763	2.0	2.5	
U	238	1	No Gas	0.002	43.3	277	12.7	2.5	
Ca	43	2	He	-18.897	-38.2	13	86.6	100	
Sb	121	2	He	0.033	4.6	153	3.8	2.5	
Ti	47	2	He	0.044	86.6	7	86.6	2.5	
Se	82	1	No Gas	-0.649	-41.9	-32	-144.3	1	

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	558231	2.11	502306	111.13	70	120	
Ge	72	2	He	386405	0.42	381710	101.23	70	120	
Ge	72	1	No Gas	1727542	2.09	1672653	103.28	70	120	
In	115	1	No Gas	1884259	0.87	1872489	100.63	70	120	
Bi	209	1	No Gas	1502927	3.22	1449392	103.69	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	028ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:32:31-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	0.425	13.7	35440	3.2	0	ICSA Main CR1 Failed
Be	9	1	No Gas	-0.007	-58.9	15	57.7	0	ICSA Main CR1 Failed
V	51	2	He	-0.032	-15.8	2152	1.3	0	ICSA Main CR1 Failed
Cr	52	2	He	1.694	2.9	12506	1.0	0	ICSA Main CR1 Failed
Fe	56	2	He	100876.146	1.3	349343928	1.1	0	
Se	78	2	He	0.479	54.3	102	13.6	0	ICSA Main CR1 Failed
As	75	2	He	0.177	4.2	233	2.5	0	ICSA Main CR1 Failed
Ca	44	2	He	94148.828	0.8	2393325	1.2	0	
Na	23	2	He	101765.748	0.8	67391477	1.1	0	
Mg	24	2	He	101876.818	1.1	39832417	1.3	0	
K	39	2	He	100727.087	0.5	51145641	1.0	0	
Mn	55	2	He	0.731	11.1	3944	6.5	0	ICSA Main CR1 Failed
Co	59	2	He	0.366	7.2	2450	6.9	0	ICSA Main CR1 Failed
Ni	60	2	He	0.886	4.8	1433	4.6	0	ICSA Main CR1 Failed
Cu	63	2	He	0.242	11.0	1453	7.0	0	ICSA Main CR1 Failed
Zn	66	2	He	2.650	4.9	2277	3.8	0	ICSA Main CR1 Failed
Al	27	2	He	97215.072	2.2	24096586	2.8	0	
B	11	1	No Gas	2.784	12.7	12034	1.9	0	
Al	27	1	No Gas	99365.761	1.7	1003914758	1.3	0	
Si	28	1	No Gas	26.611	5.5	429059	1.8	0	
Ag	107	1	No Gas	0.168	5.1	1984	6.5	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.281	20.5	604	18.2	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	4.821	2.1	107550	0.5	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1942.063	3.2	8885744	1.2	0	
Sn	118	1	No Gas	0.059	29.9	923	12.9	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.252	9.0	2644	7.4	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.665	8.3	2540	5.9	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	-0.014	-80.7	1460	9.0	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	-0.027	-81.7	570	23.6	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.174	4.0	4744	0.7	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.009	16.2	387	12.2	0	ICSA Main CR1 Failed
Ca	43	2	He	98161.033	0.1	148143	0.5	0	
Sb	121	2	He	0.253	11.7	887	11.8	0	ICSA Main CR1 Failed
Ti	47	2	He	2133.448	0.8	303022	1.4	0	
Se	82	1	No Gas	0.234	238.7	109	80.9	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	519458	2.08	502306	103.41	70	120	
Ge	72	2	He	364906	0.63	381710	95.60	70	120	
Ge	72	1	No Gas	1613735	2.06	1672653	96.48	70	120	
In	115	1	No Gas	1742709	2.02	1872489	93.07	70	120	
Bi	209	1	No Gas	1347522	4.03	1449392	92.97	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	029ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:34:30-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	97.233	1.537	716106	0.94	100	97.2	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	95.556	2.187	212146	1.21	100	95.6	80	120	
V	51	2	He	102.406	0.239	390480	1.04	100	102.4	80	120	
Cr	52	2	He	101.996	0.639	436829	1.00	100	102.0	80	120	
Fe	56	2	He	110083.261	0.620	377531248	0.79	100	110083.3	80	120	
Se	78	2	He	106.683	0.723	5586	1.28	100	106.7	80	120	
As	75	2	He	104.461	0.949	60087	0.98	100	104.5	80	120	
Ca	44	2	He	104943.003	1.213	2641640	0.98	100	104943.0	80	120	
Na	23	2	He	111093.889	0.813	72845274	0.11	100	111093.9	80	120	
Mg	24	2	He	112053.447	0.534	43384576	0.30	100	112053.4	80	120	
K	39	2	He	109789.412	1.267	55194234	0.76	100	109789.4	80	120	
Mn	55	2	He	101.785	0.776	302147	1.27	100	101.8	80	120	
Co	59	2	He	101.697	0.598	587211	0.65	100	101.7	80	120	
Ni	60	2	He	99.434	0.351	144585	0.52	100	99.4	80	120	
Cu	63	2	He	99.291	1.030	360478	1.01	100	99.3	80	120	
Zn	66	2	He	103.560	0.083	71753	0.83	100	103.6	80	120	
Al	27	2	He	95716.852	1.146	23492245	1.15	100	95716.9	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	480.235	1.817	673788	1.00	100	480.2	80	120	
Al	27	1	No Gas	98479.103	4.292	997450625	1.30	100	98479.1	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	541.403	4.405	3208469	1.11	100	541.4	80	120	
Ag	107	1	No Gas	97.921	2.656	1045589	0.67	100	97.9	80	120	
Cd	111	1	No Gas	102.234	2.969	210888	1.01	100	102.2	80	120	
Sr	88	1	No Gas	110.045	1.960	2418567	1.00	100	110.0	80	120	
Mo	95	1	No Gas	2049.586	0.804	9284552	2.07	100	2049.6	80	120	
Sn	118	1	No Gas	101.968	1.381	662086	0.67	100	102.0	80	120	
Sb	121	1	No Gas	101.074	2.274	997913	1.26	100	101.1	80	120	
Ba	137	1	No Gas	104.023	1.338	367012	0.72	100	104.0	80	120	
Tl	205	1	No Gas	97.337	1.315	1543596	0.85	100	97.3	80	120	
Tl	203	1	No Gas	97.121	0.255	640505	0.41	100	97.1	80	120	
Pb	208	1	No Gas	103.594	1.287	2311578	1.17	100	103.6	80	120	
U	238	1	No Gas	108.368	1.074	2347118	1.37	100	108.4	80	120	
Ca	43	2	He	108788.540	0.695	162586	1.26	100	108788.5	80	120	
Sb	121	2	He	101.830	0.684	341034	0.31	100	101.8	80	120	
Ti	47	2	He	2238.421	0.609	314847	1.43	100	2238.4	80	120	
Cu	63	1	No Gas	101.956	4.717	843349	1.26	100	102.0	80	120	
Se	82	1	No Gas	103.987	3.643	16488	2.02	100	104.0	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	524022	1.15	502306	104.32	70	120	
Ge	72	2	He	361363	0.82	381710	94.67	70	120	
Ge	72	1	No Gas	1619073	3.57	1672653	96.80	70	120	
In	115	1	No Gas	1724666	1.99	1872489	92.11	70	120	
Bi	209	1	No Gas	1321460	0.63	1449392	91.17	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	032_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:44:09-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	99.757	2.567	705987	1.30	100	99.8	90	110	
Be	9	1	No Gas	98.584	2.248	210575	1.01	100	98.6	90	110	
V	51	2	He	101.150	2.084	407007	1.41	100	101.1	90	110	
Cr	52	2	He	101.836	2.268	460236	1.74	100	101.8	90	110	
Fe	56	2	He	10394.375	1.094	37632219	0.82	10000	103.9	90	110	
Se	78	2	He	103.306	2.527	5711	3.15	100	103.3	90	110	
As	75	2	He	101.400	1.927	61552	1.09	100	101.4	90	110	
Ca	44	2	He	10293.585	1.616	273797	0.88	10000	102.9	90	110	
Na	23	2	He	10230.944	1.553	7135451	1.13	10000	102.3	90	110	
Mg	24	2	He	10167.191	2.111	4154367	1.37	10000	101.7	90	110	
K	39	2	He	10060.058	2.534	5420994	1.65	10000	100.6	90	110	
Mn	55	2	He	102.203	1.880	320125	1.14	100	102.2	90	110	
Co	59	2	He	103.174	1.792	628637	0.99	100	103.2	90	110	
Ni	60	2	He	106.269	1.732	163048	0.91	100	106.3	90	110	
Cu	63	2	He	102.388	1.309	392249	0.63	100	102.4	90	110	
Zn	66	2	He	103.117	1.319	75396	0.99	100	103.1	90	110	
Al	27	2	He	102.511	3.269	27113	2.42	100	102.5	90	110	
B	11	1	No Gas	503.138	1.275	678836	0.62	500	100.6	90	110	
Al	27	1	No Gas	102.998	1.043	1092914	1.10	100	103.0	90	110	
Si	28	1	No Gas	510.864	4.096	3127092	1.83	5000	10.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	101.817	0.844	1160570	2.17	100	101.8	90	110	
Cd	111	1	No Gas	101.598	1.880	223676	0.21	100	101.6	90	110	
Sr	88	1	No Gas	102.602	1.161	2406563	0.84	100	102.6	90	110	
Mo	95	1	No Gas	100.891	0.567	487827	1.95	100	100.9	90	110	
Sn	118	1	No Gas	101.401	2.242	702531	0.79	100	101.4	90	110	
Sb	121	1	No Gas	101.249	1.439	1026951	0.59	100	101.2	90	110	
Ba	137	1	No Gas	101.771	1.056	383180	0.87	100	101.8	90	110	
Tl	205	1	No Gas	98.829	5.258	1757231	2.20	100	98.8	90	110	
Tl	203	1	No Gas	98.714	5.230	729890	2.06	100	98.7	90	110	
Pb	208	1	No Gas	101.075	2.798	2530029	0.78	100	101.1	90	110	
U	238	1	No Gas	102.166	4.416	2481399	1.65	100	102.2	90	110	
Ca	43	2	He	10095.133	1.933	15959	1.58	10000	101.0	90	110	
Sb	121	2	He	102.825	1.708	363395	1.02	100	102.8	90	110	
Ti	47	2	He	104.124	0.502	15456	1.27	100	104.1	90	110	
Cu	63	1	No Gas	102.714	2.055	873283	1.06	100	102.7	90	110	
Se	82	1	No Gas	102.501	1.977	16700	0.24	100	102.5	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	504188	1.34	502306	100.37	70	120	
Ge	72	2	He	381350	0.83	381710	99.91	70	120	
Ge	72	1	No Gas	1662719	2.01	1672653	99.41	70	120	
In	115	1	No Gas	1840374	1.78	1872489	98.28	70	120	
Bi	209	1	No Gas	1483195	3.14	1449392	102.33	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	033_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:46:03-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	0.121	55.9	32416	1.2	0.5	
Be	9	1	No Gas	0.012	76.2	55	36.4	0.5	
V	51	2	He	-0.193	-20.5	1616	11.0	2.5	
Cr	52	2	He	-0.027	-449.9	5411	10.9	2.5	
Fe	56	2	He	1.975	7.4	22706	0.1	100	
Se	78	2	He	-0.088	-246.8	76	15.8	2	
As	75	2	He	-0.031	-101.4	118	14.0	2.5	
Ca	44	2	He	-2.310	-80.4	347	14.5	100	
Na	23	2	He	-0.113	-2249.6	61874	1.9	100	
Mg	24	2	He	1.600	19.7	1170	9.0	100	
K	39	2	He	-8.272	-53.7	88744	0.6	100	
Mn	55	2	He	-0.058	-120.4	1670	10.8	2.5	
Co	59	2	He	-0.009	-103.6	280	17.9	2.5	
Ni	60	2	He	-0.022	-150.7	107	46.2	2.5	
Cu	63	2	He	0.022	57.2	680	5.3	2	
Zn	66	2	He	-0.112	-73.4	373	13.7	2.5	
Al	27	2	He	0.001	41549.4	570	18.6	5	
B	11	1	No Gas	4.288	8.9	13728	3.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.394	18.6	24976	0.6	5	
Si	28	1	No Gas	0.254	498.0	298243	1.7	10	
Ag	107	1	No Gas	0.011	35.7	307	15.1	2.5	
Cd	111	1	No Gas	0.009	280.5	40	142.9	1	
Sr	88	1	No Gas	0.008	0.5	730	4.1	2.5	
Mo	95	1	No Gas	0.148	1.0	853	4.7	2.5	
Sn	118	1	No Gas	0.110	32.7	1333	16.0	5	
Sb	121	1	No Gas	0.164	20.1	1840	16.4	2.5	
Ba	137	1	No Gas	-0.007	-147.6	157	25.8	2.5	
Tl	205	1	No Gas	0.770	26.7	15828	27.4	1	
Tl	203	1	No Gas	0.738	28.8	6392	28.7	1	
Pb	208	1	No Gas	0.015	11.6	1270	2.1	2.5	
U	238	1	No Gas	0.033	25.6	1020	24.1	2.5	
Ca	43	2	He	-8.366	-127.2	30	57.7	100	
Sb	121	2	He	0.127	8.0	483	5.2	2.5	
Ti	47	2	He	0.046	173.2	7	173.2	2.5	
Cu	63	1	No Gas	0.020	104.9	1603	7.9	2.5	
Se	82	1	No Gas	-0.132	-452.5	55	182.4	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	505538	0.59	502306	100.64	70	120	
Ge	72	2	He	383169	2.25	381710	100.38	70	120	
Ge	72	1	No Gas	1676593	3.69	1672653	100.24	70	120	
In	115	1	No Gas	1857057	4.04	1872489	99.18	70	120	
Bi	209	1	No Gas	1499317	3.73	1449392	103.44	70	120	

Sample Report

Sample Table

Sample Name	MBLK-199483
Data File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T11:55:13-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	-0.143	-0.143	-15.23	30658	0.00	2000	
Be	9	1	No Gas	-0.006	-0.006	-64.76	17	-0.03	2000	
V	51	2	He	-0.101	-0.101	-10.04	2016	0.00	2000	
Cr	52	2	He	-0.154	-0.154	-24.98	4914	0.00	2000	
Fe	56	2	He	0.072	0.072	82.25	16030	0.00	200000	
Se	78	2	He	0.275	0.275	52.27	97	0.28	2000	
As	75	2	He	-0.067	-0.067	-46.29	98	-0.07	2000	
Ca	44	2	He	5.740	5.740	83.66	570	1.01	200000	
Na	23	2	He	-2.483	-2.483	-47.40	61140	0.00	200000	
Mg	24	2	He	4.050	4.050	1.92	2210	0.18	200000	
K	39	2	He	-9.624	-9.624	-14.70	89365	-0.01	200000	
Mn	55	2	He	-0.103	-0.103	-42.93	1553	-0.01	2000	
Co	59	2	He	-0.025	-0.025	-13.25	183	-0.01	2000	
Ni	60	2	He	-0.027	-0.027	-122.95	100	-0.03	2000	
Cu	63	2	He	0.002	0.002	233.04	613	0.00	2000	
Zn	66	2	He	0.226	0.226	30.15	630	0.04	2000	
Al	27	2	He	2.191	2.191	22.24	1157	0.19	2000	
B	11	1	No Gas	0.259	0.259	91.75	8348	0.00	2000	
Al	27	1	No Gas	2.185	2.185	5.93	44605	0.00	2000	
Si	28	1	No Gas	16.013	16.013	8.95	393784	0.00	2000	
Ag	107	1	No Gas	0.000	0.000	-2286.56	173	0.00	2000	
Cd	111	1	No Gas	-0.004	-0.004	-183.31	10	-0.04	2000	
Sr	88	1	No Gas	0.021	0.021	35.20	1050	0.00	2000	
Mo	95	1	No Gas	0.021	0.021	40.45	237	0.01	2000	
Sn	118	1	No Gas	0.041	0.041	42.42	863	0.00	2000	
Sb	121	1	No Gas	0.018	0.018	20.83	360	0.00	2000	
Ba	137	1	No Gas	0.027	0.027	40.25	290	0.01	2000	
Tl	205	1	No Gas	-0.015	-0.015	-44.91	1630	0.00	2000	
Tl	203	1	No Gas	-0.032	-0.032	-24.26	610	-0.01	2000	
Pb	208	1	No Gas	-0.004	-0.004	-101.40	800	0.00	2000	
U	238	1	No Gas	0.003	0.003	138.11	287	0.00	2000	
Ca	43	2	He	-6.487	-6.487	-55.79	33	-19.46	200000	
Sb	121	2	He	0.020	0.020	48.09	107	0.02	2000	
Ti	47	2	He	0.000	0.000	#DIV/0!	0	#DIV/0!	2000	
Cu	63	1	No Gas	0.002	0.002	659.18	1480	0.00	2000	
Zn	66	1	No Gas	0.286	0.286	19.02	2080	0.01	2000	
Se	82	1	No Gas	-0.135	-0.135	-429.58	55	-0.25	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	505986	0.55	502306	100.73	70	120	
Ge	72	2	He	388856	0.24	381710	101.87	70	120	
Ge	72	1	No Gas	1708414	1.99	1672653	102.14	70	120	
In	115	1	No Gas	1879262	1.93	1872489	100.36	70	120	

Sample Report

Bi	209	1	No Gas	1517327	2.16	1449392	104.69	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01MS
Data File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:01:07-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	44.953	44.953	1.10	378815	0.01	2000	
Be	9	1	No Gas	47.355	47.355	1.19	114239	0.04	2000	
V	51	2	He	51.431	51.431	2.65	207629	0.02	2000	
Cr	52	2	He	49.956	49.956	1.22	228073	0.02	2000	
Fe	56	2	He	5098.428	5098.428	2.00	18423826	0.03	200000	
Se	78	2	He	33.775	33.775	1.34	1917	1.76	2000	
As	75	2	He	52.849	52.849	2.61	32070	0.16	2000	
Ca	44	2	He	19275.729	19275.729	2.08	511182	3.77	200000	
Na	23	2	He	832238.793	832238.793	2.00	574150271	0.14	200000	>LDR
Mg	24	2	He	22866.857	22866.857	3.34	9320412	0.25	200000	
K	39	2	He	7195.024	7195.024	1.89	3894845	0.18	200000	
Mn	55	2	He	76.353	76.353	1.71	239083	0.03	2000	
Co	59	2	He	48.729	48.729	2.00	296424	0.02	2000	
Ni	60	2	He	47.914	47.914	3.53	73411	0.07	2000	
Cu	63	2	He	49.275	49.275	1.61	188650	0.03	2000	
Zn	66	2	He	54.769	54.769	2.38	40163	0.14	2000	
Al	27	2	He	113.011	113.011	2.41	29765	0.38	2000	
B	11	1	No Gas	35.528	35.528	2.84	62478	0.06	2000	
Al	27	1	No Gas	121.217	121.217	0.54	1271929	0.01	2000	
Si	28	1	No Gas	12050.055	12050.055	1.60	66560887	0.02	2000	>LDR
Ag	107	1	No Gas	49.241	49.241	1.10	525421	0.01	2000	
Cd	111	1	No Gas	50.544	50.544	0.37	104187	0.05	2000	
Sr	88	1	No Gas	389.284	389.284	1.53	8545580	0.00	2000	
Mo	95	1	No Gas	51.811	51.811	0.81	234543	0.02	2000	
Sn	118	1	No Gas	0.272	0.272	9.58	2287	0.01	2000	
Sb	121	1	No Gas	49.492	49.492	3.91	497531	0.01	2000	
Ba	137	1	No Gas	244.421	244.421	0.89	861231	0.03	2000	
Tl	205	1	No Gas	41.734	41.734	3.77	642149	0.01	2000	
Tl	203	1	No Gas	41.671	41.671	4.66	266588	0.02	2000	
Pb	208	1	No Gas	52.231	52.231	3.57	1129592	0.00	2000	
U	238	1	No Gas	0.031	0.031	20.95	827	0.00	2000	
Ca	43	2	He	19478.455	19478.455	0.97	30688	63.47	200000	
Sb	121	2	He	49.110	49.110	2.41	173173	0.03	2000	
Ti	47	2	He	57.499	57.499	5.18	8513	0.68	2000	
Cu	63	1	No Gas	62.382	62.382	3.71	526173	0.01	2000	
Zn	66	1	No Gas	55.373	55.373	3.16	134416	0.04	2000	
Se	82	1	No Gas	38.601	38.601	5.67	6276	0.62	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	569347	2.49	502306	113.35	70	120	
Ge	72	2	He	380524	1.65	381710	99.69	70	120	
Ge	72	1	No Gas	1648912	3.67	1672653	98.58	70	120	
In	115	1	No Gas	1722608	0.62	1872489	92.00	70	120	
Bi	209	1	No Gas	1281698	4.50	1449392	88.43	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01
Data File Name	040SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:05:12-05:00
Sample Type	Sample
Dilution	100
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	1.031	103.074	9.26	44144	0.00	2000	
Be	9	1	No Gas	0.000	-0.037	-614.11	32	0.00	2000	
V	51	2	He	0.751	75.133	1.77	5600	0.01	2000	
Cr	52	2	He	0.167	16.680	11.86	6502	0.00	2000	
Fe	56	2	He	0.935	93.535	17.15	19594	0.00	200000	
Se	78	2	He	-0.148	-14.759	-31.23	75	-0.20	2000	
As	75	2	He	0.057	5.726	116.40	178	0.03	2000	
Ca	44	2	He	131.990	13198.969	7.91	4067	3.25	200000	
Na	23	2	He	8350.678	835067.818	3.12	6068036	0.14	200000	
Mg	24	2	He	197.567	19756.700	2.97	84475	0.23	200000	
K	39	2	He	14.371	1437.126	17.59	104353	0.01	200000	
Mn	55	2	He	0.148	14.824	33.57	2400	0.01	2000	
Co	59	2	He	-0.007	-0.682	-143.36	303	0.00	2000	
Ni	60	2	He	-0.046	-4.553	-61.19	73	-0.06	2000	
Cu	63	2	He	0.030	3.023	63.57	737	0.00	2000	
Zn	66	2	He	-0.219	-21.873	-39.51	307	-0.07	2000	
Al	27	2	He	0.917	91.682	38.50	837	0.11	2000	
B	11	1	No Gas	0.112	11.220	189.64	9316	0.00	2000	
Al	27	1	No Gas	1.229	122.884	5.01	35175	0.00	2000	
Si	28	1	No Gas	128.504	12850.351	2.71	1058461	0.01	2000	
Ag	107	1	No Gas	0.010	1.029	20.27	300	0.00	2000	
Cd	111	1	No Gas	0.000	-0.043	-3862.70	19	0.00	2000	
Sr	88	1	No Gas	3.902	390.239	1.13	94852	0.00	2000	
Mo	95	1	No Gas	0.042	4.198	23.89	343	0.01	2000	
Sn	118	1	No Gas	0.010	1.028	59.56	653	0.00	2000	
Sb	121	1	No Gas	0.020	2.024	37.66	393	0.01	2000	
Ba	137	1	No Gas	1.829	182.932	0.80	7282	0.03	2000	
Tl	205	1	No Gas	0.052	5.200	13.67	2774	0.00	2000	
Tl	203	1	No Gas	0.065	6.511	27.42	1303	0.00	2000	
Pb	208	1	No Gas	0.000	-0.048	-539.44	863	0.00	2000	
U	238	1	No Gas	0.007	0.672	50.00	373	0.00	2000	
Ca	43	2	He	147.783	14778.294	31.10	287	51.55	200000	
Sb	121	2	He	0.027	2.685	42.70	133	0.02	2000	
Ti	47	2	He	0.043	4.278	173.21	7	0.64	2000	
Cu	63	1	No Gas	0.113	11.322	10.88	2507	0.00	2000	
Zn	66	1	No Gas	-0.151	-15.066	-37.31	1017	-0.01	2000	
Se	82	1	No Gas	-0.235	-23.452	-114.87	38	-0.61	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	578404	1.37	502306	115.15	70	120	
Ge	72	2	He	396581	0.84	381710	103.90	70	120	
Ge	72	1	No Gas	1747168	0.84	1672653	104.45	70	120	
In	115	1	No Gas	1896105	1.07	1872489	101.26	70	120	

Sample Report

Bi	209	1	No Gas	1473652	1.06	1449392	101.67	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01SD
Data File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:07:10-05:00
Sample Type	Sample
Dilution	500
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	0.371	185.607	28.22	37608	0.00	2000	
Be	9	1	No Gas	-0.001	-0.646	-88.98	28	0.00	2000	
V	51	2	He	0.850	424.808	4.72	5909	0.01	2000	
Cr	52	2	He	0.139	69.707	75.65	6268	0.00	2000	
Fe	56	2	He	3.190	1594.822	4.92	27612	0.01	200000	
Se	78	2	He	-0.016	-8.116	-2866.07	81	-0.02	2000	
As	75	2	He	0.063	31.738	115.52	179	0.04	2000	
Ca	44	2	He	27.911	13955.411	20.65	1173	2.38	200000	
Na	23	2	He	1792.488	896244.018	1.50	1330451	0.13	200000	
Mg	24	2	He	42.062	21030.973	1.78	18099	0.23	200000	
K	39	2	He	-0.753	-376.577	-146.21	94421	0.00	200000	
Mn	55	2	He	-0.011	-5.329	-539.40	1853	0.00	2000	
Co	59	2	He	-0.016	-8.084	-62.68	240	-0.01	2000	
Ni	60	2	He	0.023	11.723	98.63	180	0.01	2000	
Cu	63	2	He	0.074	37.099	28.93	897	0.01	2000	
Zn	66	2	He	-0.055	-27.397	-87.60	423	-0.01	2000	
Al	27	2	He	1.826	913.241	15.12	1063	0.17	2000	
B	11	1	No Gas	-0.333	-166.626	-34.26	8323	0.00	2000	
Al	27	1	No Gas	1.769	884.330	3.66	41148	0.00	2000	
Si	28	1	No Gas	29.107	14553.642	5.28	479902	0.01	2000	
Ag	107	1	No Gas	0.000	-0.216	-1114.89	173	0.00	2000	
Cd	111	1	No Gas	0.000	-0.074	-6139.51	20	0.00	2000	
Sr	88	1	No Gas	0.808	404.155	3.18	20045	0.00	2000	
Mo	95	1	No Gas	0.019	9.350	72.47	227	0.01	2000	
Sn	118	1	No Gas	0.009	4.479	205.75	643	0.00	2000	
Sb	121	1	No Gas	0.010	4.940	40.68	283	0.00	2000	
Ba	137	1	No Gas	0.376	187.977	6.42	1643	0.02	2000	
Tl	205	1	No Gas	-0.015	-7.478	-66.65	1567	0.00	2000	
Tl	203	1	No Gas	-0.008	-4.129	-191.25	750	0.00	2000	
Pb	208	1	No Gas	-0.001	-0.667	-388.58	827	0.00	2000	
U	238	1	No Gas	0.001	0.359	438.10	223	0.00	2000	
Ca	43	2	He	32.726	16362.917	60.80	97	33.85	200000	
Sb	121	2	He	0.017	8.647	78.85	97	0.02	2000	
Ti	47	2	He	0.088	43.925	173.21	13	0.66	2000	
Cu	63	1	No Gas	0.078	39.104	25.53	2197	0.00	2000	
Zn	66	1	No Gas	0.089	44.279	67.95	1627	0.01	2000	
Se	82	1	No Gas	0.571	285.430	44.59	175	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	557257	0.65	502306	110.94	70	120	
Ge	72	2	He	389950	0.32	381710	102.16	70	120	
Ge	72	1	No Gas	1750309	1.98	1672653	104.64	70	120	
In	115	1	No Gas	1891898	1.22	1872489	101.04	70	120	

Sample Report

Bi	209	1	No Gas	1451141	3.10	1449392	100.12	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01PDS
Data File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:09:08-05:00
Sample Type	Sample
Dilution	100
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	0.722	72.223	8.19	38872	0.00	2000	
Be	9	1	No Gas	94.309	9430.857	3.63	215134	0.04	2000	
V	51	2	He	96.842	9684.190	1.69	400694	0.02	2000	
Cr	52	2	He	96.134	9613.357	1.22	446976	0.02	2000	
Fe	56	2	He	9974.908	997490.754	1.71	37122186	0.03	200000	
Se	78	2	He	97.739	9773.905	5.28	5557	1.76	2000	
As	75	2	He	98.814	9881.399	1.72	61673	0.16	2000	
Ca	44	2	He	9895.934	989593.440	1.98	270590	3.66	200000	
Na	23	2	He	17881.566	1788156.575	1.65	12772710	0.14	200000	
Mg	24	2	He	10152.318	1015231.807	3.39	4264029	0.24	200000	
K	39	2	He	9778.735	977873.516	2.80	5419073	0.18	200000	
Mn	55	2	He	96.808	9680.751	1.31	311825	0.03	2000	
Co	59	2	He	97.510	9750.990	2.90	610719	0.02	2000	
Ni	60	2	He	97.456	9745.598	2.98	153704	0.06	2000	
Cu	63	2	He	98.805	9880.536	1.86	389126	0.03	2000	
Zn	66	2	He	100.023	10002.346	2.02	75192	0.13	2000	
Al	27	2	He	98.627	9862.656	2.91	26836	0.37	2000	
B	11	1	No Gas	-0.150	-15.019	-128.63	8301	0.00	2000	
Al	27	1	No Gas	102.676	10267.552	4.62	1136460	0.01	2000	
Si	28	1	No Gas	124.541	12454.145	1.88	1028044	0.01	2000	
Ag	107	1	No Gas	99.236	9923.574	0.39	1144684	0.01	2000	
Cd	111	1	No Gas	99.341	9934.141	0.84	221377	0.04	2000	
Sr	88	1	No Gas	3.865	386.483	2.79	92274	0.00	2000	
Mo	95	1	No Gas	98.050	9805.046	0.55	479791	0.02	2000	
Sn	118	1	No Gas	0.010	1.010	157.34	640	0.00	2000	
Sb	121	1	No Gas	93.408	9340.804	2.61	988472	0.01	2000	
Ba	137	1	No Gas	100.761	10076.066	0.82	383999	0.03	2000	
Tl	205	1	No Gas	103.194	10319.425	1.36	1819999	0.01	2000	
Tl	203	1	No Gas	103.632	10363.173	0.45	760011	0.01	2000	
Pb	208	1	No Gas	97.624	9762.433	1.10	2422453	0.00	2000	
U	238	1	No Gas	0.006	0.649	9.02	367	0.00	2000	
Ca	43	2	He	9686.220	968622.038	3.42	15743	61.53	200000	
Sb	121	2	He	94.047	9404.654	2.35	341657	0.03	2000	
Ti	47	2	He	101.418	10141.767	2.70	15472	0.66	2000	
Cu	63	1	No Gas	100.714	10071.368	1.23	893548	0.01	2000	
Zn	66	1	No Gas	99.259	9925.919	2.31	252537	0.04	2000	
Se	82	1	No Gas	100.570	10056.952	2.68	17103	0.59	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	538462	0.92	502306	107.20	70	120	
Ge	72	2	He	392057	1.79	381710	102.71	70	120	
Ge	72	1	No Gas	1734849	1.51	1672653	103.72	70	120	
In	115	1	No Gas	1862464	1.02	1872489	99.46	70	120	

Sample Report

Bi	209	1	No Gas	1469675	2.00	1449392	101.40	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	043_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:11:03-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	100.721	1.611	737528	0.43	100	100.7	90	110	
Be	9	1	No Gas	99.377	1.767	219720	0.99	100	99.4	90	110	
V	51	2	He	99.205	0.592	409516	0.55	100	99.2	90	110	
Cr	52	2	He	98.639	1.065	457452	1.08	100	98.6	90	110	
Fe	56	2	He	10147.997	1.613	37685288	1.59	10000	101.5	90	110	
Se	78	2	He	98.590	3.173	5594	3.31	100	98.6	90	110	
As	75	2	He	100.055	1.369	62304	1.55	100	100.1	90	110	
Ca	44	2	He	10050.667	1.683	274233	1.69	10000	100.5	90	110	
Na	23	2	He	10060.574	0.661	7198301	0.80	10000	100.6	90	110	
Mg	24	2	He	9861.363	1.111	4133351	1.21	10000	98.6	90	110	
K	39	2	He	9976.352	0.538	5515496	0.70	10000	99.8	90	110	
Mn	55	2	He	98.019	1.064	315013	1.19	100	98.0	90	110	
Co	59	2	He	98.096	2.453	613124	2.56	100	98.1	90	110	
Ni	60	2	He	101.332	1.324	159490	1.52	100	101.3	90	110	
Cu	63	2	He	99.585	1.713	391354	1.85	100	99.6	90	110	
Zn	66	2	He	101.007	1.588	75761	1.43	100	101.0	90	110	
Al	27	2	He	100.628	1.299	27314	1.15	100	100.6	90	110	
B	11	1	No Gas	503.558	1.821	703156	0.29	500	100.7	90	110	
Al	27	1	No Gas	105.968	0.753	1136062	1.44	100	106.0	90	110	
Si	28	1	No Gas	532.577	1.790	3284485	3.00	5000	10.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.291	2.832	1147657	2.38	100	99.3	90	110	
Cd	111	1	No Gas	101.780	1.380	227283	0.70	100	101.8	90	110	
Sr	88	1	No Gas	103.310	0.776	2457686	0.27	100	103.3	90	110	
Mo	95	1	No Gas	101.311	0.801	496785	1.04	100	101.3	90	110	
Sn	118	1	No Gas	100.960	1.082	709574	1.51	100	101.0	90	110	
Sb	121	1	No Gas	102.414	1.388	1050058	1.17	100	102.4	90	110	
Ba	137	1	No Gas	100.377	1.380	383331	1.60	100	100.4	90	110	
Tl	205	1	No Gas	95.447	3.597	1679603	1.12	100	95.4	90	110	
Tl	203	1	No Gas	97.339	3.191	712334	0.66	100	97.3	90	110	
Pb	208	1	No Gas	100.901	3.212	2498459	1.09	100	100.9	90	110	
U	238	1	No Gas	101.183	3.630	2431578	1.03	100	101.2	90	110	
Ca	43	2	He	9983.178	3.013	16190	3.19	10000	99.8	90	110	
Sb	121	2	He	99.728	0.714	361535	0.91	100	99.7	90	110	
Ti	47	2	He	102.988	0.428	15679	0.61	100	103.0	90	110	
Cu	63	1	No Gas	104.621	1.983	899083	0.52	100	104.6	90	110	
Se	82	1	No Gas	103.507	3.519	17043	2.06	100	103.5	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	521892	1.98	502306	103.90	70	120	
Ge	72	2	He	391141	0.19	381710	102.47	70	120	
Ge	72	1	No Gas	1680630	1.48	1672653	100.48	70	120	
In	115	1	No Gas	1866461	1.05	1872489	99.68	70	120	
Bi	209	1	No Gas	1467157	2.61	1449392	101.23	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	044_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:12:57-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	0.101	50.8	34457	0.4	0.5	
Be	9	1	No Gas	0.024	41.6	85	25.6	0.5	
V	51	2	He	-0.186	-17.6	1668	7.8	2.5	
Cr	52	2	He	0.042	89.9	5811	2.8	2.5	
Fe	56	2	He	2.234	14.0	24028	4.6	100	
Se	78	2	He	0.189	135.7	93	15.6	2	
As	75	2	He	-0.017	-237.2	129	19.4	2.5	
Ca	44	2	He	-1.534	-175.4	373	19.7	100	
Na	23	2	He	20.603	7.2	77488	1.3	100	
Mg	24	2	He	1.783	12.1	1267	7.1	100	
K	39	2	He	-1.636	-147.0	93764	1.2	100	
Mn	55	2	He	-0.107	-24.6	1543	5.5	2.5	
Co	59	2	He	0.015	32.9	433	7.1	2.5	
Ni	60	2	He	-0.021	-133.4	110	39.6	2.5	
Cu	63	2	He	0.028	96.1	713	14.4	2	
Zn	66	2	He	-0.094	-77.6	393	14.0	2.5	
Al	27	2	He	0.308	84.1	660	10.6	5	
B	11	1	No Gas	3.234	9.7	13148	2.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.323	19.7	25243	1.8	5	
Si	28	1	No Gas	2.202	53.7	322085	1.9	10	
Ag	107	1	No Gas	0.012	13.7	323	8.9	2.5	
Cd	111	1	No Gas	0.014	102.5	52	61.2	1	
Sr	88	1	No Gas	0.010	9.8	817	6.0	2.5	
Mo	95	1	No Gas	0.099	17.6	637	13.5	2.5	
Sn	118	1	No Gas	0.105	18.7	1350	10.2	5	
Sb	121	1	No Gas	0.228	10.1	2600	8.1	2.5	
Ba	137	1	No Gas	0.001	723.0	197	19.3	2.5	
Tl	205	1	No Gas	0.799	33.6	15774	29.1	1	
Tl	203	1	No Gas	0.790	29.5	6549	25.2	1	
Pb	208	1	No Gas	0.015	36.4	1233	10.0	2.5	
U	238	1	No Gas	0.025	22.1	810	16.1	2.5	
Ca	43	2	He	-4.443	-160.8	37	31.5	100	
Sb	121	2	He	0.218	13.9	820	13.2	2.5	
Ti	47	2	He	0.022	173.2	3	173.2	2.5	
Cu	63	1	No Gas	0.010	76.2	1583	2.6	2.5	
Se	82	1	No Gas	0.336	60.9	135	24.0	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	539652	1.16	502306	107.43	70	120	
Ge	72	2	He	389207	0.24	381710	101.96	70	120	
Ge	72	1	No Gas	1746243	2.34	1672653	104.40	70	120	
In	115	1	No Gas	1923531	3.18	1872489	102.73	70	120	
Bi	209	1	No Gas	1457904	1.89	1449392	100.59	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	054_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:32:41-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	101.405	1.961	735371	1.10	100	101.4	90	110	
Be	9	1	No Gas	99.996	2.064	219020	1.25	100	100.0	90	110	
V	51	2	He	99.386	2.587	412340	2.16	100	99.4	90	110	
Cr	52	2	He	99.351	2.076	463059	1.69	100	99.4	90	110	
Fe	56	2	He	10207.331	1.208	38099764	0.95	10000	102.1	90	110	
Se	78	2	He	99.090	0.065	5651	0.44	100	99.1	90	110	
As	75	2	He	99.372	1.458	62196	1.37	100	99.4	90	110	
Ca	44	2	He	10226.119	1.359	280440	1.07	10000	102.3	90	110	
Na	23	2	He	10166.654	0.452	7310966	0.77	10000	101.7	90	110	
Mg	24	2	He	10207.833	0.687	4300455	0.27	10000	102.1	90	110	
K	39	2	He	9948.996	2.217	5528680	1.93	10000	99.5	90	110	
Mn	55	2	He	100.179	1.963	323552	1.58	100	100.2	90	110	
Co	59	2	He	100.410	0.660	630813	1.08	100	100.4	90	110	
Ni	60	2	He	101.118	0.019	159969	0.42	100	101.1	90	110	
Cu	63	2	He	101.617	0.771	401372	0.68	100	101.6	90	110	
Zn	66	2	He	102.045	1.386	76931	1.51	100	102.0	90	110	
Al	27	2	He	101.050	0.672	27568	1.01	100	101.0	90	110	
B	11	1	No Gas	508.591	1.817	703485	0.94	500	101.7	90	110	
Al	27	1	No Gas	108.191	1.949	1167250	2.03	100	108.2	90	110	
Si	28	1	No Gas	527.992	2.135	3280062	1.81	5000	10.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.990	2.763	1165138	2.27	100	100.0	90	110	
Cd	111	1	No Gas	100.520	2.180	226290	1.54	100	100.5	90	110	
Sr	88	1	No Gas	104.961	1.432	2517475	1.95	100	105.0	90	110	
Mo	95	1	No Gas	102.242	0.413	505427	0.53	100	102.2	90	110	
Sn	118	1	No Gas	101.962	1.811	722392	1.51	100	102.0	90	110	
Sb	121	1	No Gas	102.475	2.793	1057723	2.32	100	102.5	90	110	
Ba	137	1	No Gas	101.833	1.467	392029	0.85	100	101.8	90	110	
Tl	205	1	No Gas	95.612	0.571	1712720	1.76	100	95.6	90	110	
Tl	203	1	No Gas	96.649	0.997	719906	1.41	100	96.6	90	110	
Pb	208	1	No Gas	101.600	0.255	2560633	1.21	100	101.6	90	110	
U	238	1	No Gas	99.956	1.854	2444815	0.65	100	100.0	90	110	
Ca	43	2	He	10510.128	2.994	17128	2.57	10000	105.1	90	110	
Sb	121	2	He	101.759	0.683	370798	1.06	100	101.8	90	110	
Ti	47	2	He	99.589	4.221	15239	4.02	100	99.6	90	110	
Cu	63	1	No Gas	104.287	0.696	902391	0.74	100	104.3	90	110	
Se	82	1	No Gas	102.110	0.504	16933	0.88	100	102.1	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	516962	0.89	502306	102.92	70	120	
Ge	72	2	He	393153	0.43	381710	103.00	70	120	
Ge	72	1	No Gas	1691883	0.49	1672653	101.15	70	120	
In	115	1	No Gas	1881613	0.66	1872489	100.49	70	120	
Bi	209	1	No Gas	1492543	1.32	1449392	102.98	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	055_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:34:35-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	-0.288	-40.7	31915	2.6	0.5	
Be	9	1	No Gas	0.016	55.1	67	30.3	0.5	
V	51	2	He	-0.122	-19.1	1956	3.9	2.5	
Cr	52	2	He	0.014	659.7	5761	6.2	2.5	
Fe	56	2	He	1.685	5.9	22309	1.5	100	
Se	78	2	He	0.082	284.1	88	15.9	2	
As	75	2	He	-0.018	-127.9	130	11.8	2.5	
Ca	44	2	He	-1.859	-91.1	370	14.0	100	
Na	23	2	He	-8.018	-3.4	58101	1.5	100	
Mg	24	2	He	1.110	10.7	1000	5.3	100	
K	39	2	He	-11.411	-16.3	89723	0.8	100	
Mn	55	2	He	-0.192	-6.1	1290	4.1	2.5	
Co	59	2	He	-0.004	-106.9	320	8.3	2.5	
Ni	60	2	He	-0.029	-94.6	100	43.6	2.5	
Cu	63	2	He	-0.005	-347.9	593	11.0	2	
Zn	66	2	He	-0.244	-31.2	287	21.3	2.5	
Al	27	2	He	0.138	123.1	623	6.7	5	
B	11	1	No Gas	2.699	5.8	12491	1.3	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.729	5.8	29559	2.0	5	
Si	28	1	No Gas	0.775	151.0	312412	1.4	10	
Ag	107	1	No Gas	0.007	101.0	260	30.5	2.5	
Cd	111	1	No Gas	0.003	178.3	27	43.3	1	
Sr	88	1	No Gas	0.012	20.0	857	7.6	2.5	
Mo	95	1	No Gas	0.106	42.0	670	32.3	2.5	
Sn	118	1	No Gas	0.090	9.2	1240	5.6	5	
Sb	121	1	No Gas	0.097	11.0	1210	8.3	2.5	
Ba	137	1	No Gas	0.003	274.7	203	17.3	2.5	
Tl	205	1	No Gas	0.928	25.9	18625	27.4	1	
Tl	203	1	No Gas	0.885	32.9	7493	33.2	1	
Pb	208	1	No Gas	0.008	62.8	1093	9.8	2.5	
U	238	1	No Gas	0.024	36.1	813	29.5	2.5	
Ca	43	2	He	-8.778	-72.8	30	33.3	100	
Sb	121	2	He	0.099	18.9	397	18.6	2.5	
Ti	47	2	He	0.021	173.2	3	173.2	2.5	
Cu	63	1	No Gas	-0.023	-55.1	1280	6.9	2.5	
Se	82	1	No Gas	0.102	442.7	95	80.4	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	544213	0.77	502306	108.34	70	120	
Ge	72	2	He	394711	1.49	381710	103.41	70	120	
Ge	72	1	No Gas	1738755	2.13	1672653	103.95	70	120	
In	115	1	No Gas	1918645	1.13	1872489	102.46	70	120	
Bi	209	1	No Gas	1494823	4.16	1449392	103.13	70	120	

Sample Report

Sample Table

Sample Name	LCS-199483
Data File Name	059SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:42:22-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 199483
ISTD Ref FileName	015CALB.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	11.392	11.392	2.11	118489	0.01	2000	
Be	9	1	No Gas	50.604	50.604	2.76	118013	0.04	2000	
V	51	2	He	52.141	52.141	0.88	216547	0.02	2000	
Cr	52	2	He	52.698	52.698	1.83	247176	0.02	2000	
Fe	56	2	He	5323.015	5323.015	2.12	19786900	0.03	200000	
Se	78	2	He	53.433	53.433	2.83	3071	1.74	2000	
As	75	2	He	53.128	53.128	2.71	33165	0.16	2000	
Ca	44	2	He	5270.232	5270.232	1.36	144093	3.66	200000	
Na	23	2	He	5380.776	5380.776	0.19	3882297	0.14	200000	
Mg	24	2	He	5486.426	5486.426	2.59	2301350	0.24	200000	
K	39	2	He	5297.959	5297.959	1.27	2975739	0.18	200000	
Mn	55	2	He	52.556	52.556	1.31	169915	0.03	2000	
Co	59	2	He	53.016	53.016	1.08	331793	0.02	2000	
Ni	60	2	He	53.273	53.273	2.43	83962	0.06	2000	
Cu	63	2	He	53.722	53.722	1.24	211539	0.03	2000	
Zn	66	2	He	55.476	55.476	1.65	41848	0.13	2000	
Al	27	2	He	59.507	59.507	4.55	16397	0.36	2000	
B	11	1	No Gas	57.718	57.718	2.53	92707	0.06	2000	
Al	27	1	No Gas	60.917	60.917	2.59	683843	0.01	2000	
Si	28	1	No Gas	156.151	156.151	0.61	1212383	0.01	2000	
Ag	107	1	No Gas	53.140	53.140	1.12	630903	0.01	2000	
Cd	111	1	No Gas	53.133	53.133	0.60	121862	0.04	2000	
Sr	88	1	No Gas	12.452	12.452	1.15	304692	0.00	2000	
Mo	95	1	No Gas	50.924	50.924	1.45	256504	0.02	2000	
Sn	118	1	No Gas	11.780	11.780	0.72	85538	0.01	2000	
Sb	121	1	No Gas	52.683	52.683	2.77	558124	0.01	2000	
Ba	137	1	No Gas	52.364	52.364	1.96	205453	0.03	2000	
Tl	205	1	No Gas	45.951	45.951	1.66	831614	0.01	2000	
Tl	203	1	No Gas	46.305	46.305	1.63	348503	0.01	2000	
Pb	208	1	No Gas	53.672	53.672	2.37	1365308	0.00	2000	
U	238	1	No Gas	93.437	93.437	3.39	2306243	0.00	2000	
Ca	43	2	He	5352.287	5352.287	3.63	8706	61.48	200000	
Sb	121	2	He	51.934	51.934	1.72	188405	0.03	2000	
Ti	47	2	He	54.833	54.833	2.31	8353	0.66	2000	
Cu	63	1	No Gas	54.943	54.943	2.01	488589	0.01	2000	
Zn	66	1	No Gas	55.219	55.219	1.91	141268	0.04	2000	
Se	82	1	No Gas	52.387	52.387	6.16	8952	0.59	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	550412	1.44	502306	109.58	70	120	
Ge	72	2	He	391442	1.35	381710	102.55	70	120	
Ge	72	1	No Gas	1736724	2.06	1672653	103.83	70	120	
In	115	1	No Gas	1916625	0.64	1872489	102.36	70	120	

Sample Report

Bi	209	1	No Gas	1506439	2.03	1449392	103.94	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	061_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:46:16-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
n	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	97.778	2.346	743286	2.25	100	97.8	90	110	
Be	9	1	No Gas	96.968	1.436	222274	1.34	100	97.0	90	110	
V	51	2	He	99.987	0.584	408771	1.13	100	100.0	90	110	
Cr	52	2	He	100.734	0.766	462575	1.35	100	100.7	90	110	
Fe	56	2	He	10194.357	1.096	37495455	1.66	10000	101.9	90	110	
Se	78	2	He	101.441	2.403	5697	1.76	100	101.4	90	110	
As	75	2	He	100.765	0.649	62140	0.28	100	100.8	90	110	
Ca	44	2	He	10359.859	0.308	279940	0.55	10000	103.6	90	110	
Na	23	2	He	10113.689	1.502	7166789	2.01	10000	101.1	90	110	
Mg	24	2	He	10172.513	0.409	4222777	0.73	10000	101.7	90	110	
K	39	2	He	9892.280	0.794	5417086	0.17	10000	98.9	90	110	
Mn	55	2	He	100.406	0.223	319538	0.57	100	100.4	90	110	
Co	59	2	He	100.946	0.538	624858	0.70	100	100.9	90	110	
Ni	60	2	He	101.473	1.964	158186	2.52	100	101.5	90	110	
Cu	63	2	He	101.406	0.663	394674	1.24	100	101.4	90	110	
Zn	66	2	He	101.622	1.170	75490	1.47	100	101.6	90	110	
Al	27	2	He	103.383	3.247	27778	3.52	100	103.4	90	110	
B	11	1	No Gas	493.859	0.237	715156	0.12	500	98.8	90	110	
Al	27	1	No Gas	106.311	1.333	1153180	0.58	100	106.3	90	110	
Si	28	1	No Gas	517.326	1.679	3236522	1.55	5000	10.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.485	1.552	1150630	1.49	100	98.5	90	110	
Cd	111	1	No Gas	99.521	1.393	224629	1.23	100	99.5	90	110	
Sr	88	1	No Gas	103.532	1.905	2489443	2.02	100	103.5	90	110	
Mo	95	1	No Gas	101.464	0.527	502862	0.52	100	101.5	90	110	
Sn	118	1	No Gas	100.714	1.220	715389	1.01	100	100.7	90	110	
Sb	121	1	No Gas	101.985	1.438	1058276	2.13	100	102.0	90	110	
Ba	137	1	No Gas	99.544	2.087	384184	1.29	100	99.5	90	110	
Tl	205	1	No Gas	94.700	4.845	1677174	1.98	100	94.7	90	110	
Tl	203	1	No Gas	96.427	2.729	710443	0.28	100	96.4	90	110	
Pb	208	1	No Gas	101.627	2.366	2533736	1.45	100	101.6	90	110	
U	238	1	No Gas	101.680	1.510	2460881	1.61	100	101.7	90	110	
Ca	43	2	He	10270.454	1.012	16493	0.81	10000	102.7	90	110	
Sb	121	2	He	101.928	0.631	365964	1.10	100	101.9	90	110	
Ti	47	2	He	104.550	2.603	15763	2.12	100	104.6	90	110	
Cu	63	1	No Gas	104.181	1.149	906136	1.27	100	104.2	90	110	
Se	82	1	No Gas	102.069	0.975	17013	0.91	100	102.1	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	540971	0.14	502306	107.70	70	120	
Ge	72	2	He	387384	0.60	381710	101.49	70	120	
Ge	72	1	No Gas	1700796	1.88	1672653	101.68	70	120	
In	115	1	No Gas	1886439	0.84	1872489	100.74	70	120	
Bi	209	1	No Gas	1477077	2.99	1449392	101.91	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	062_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq Date Time	2023-08-29T12:48:09-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.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	-0.171	-8.7	34023	1.6	0.5	
Be	9	1	No Gas	0.015	39.1	67	18.9	0.5	
V	51	2	He	-0.205	-12.9	1578	7.5	2.5	
Cr	52	2	He	0.118	54.9	6101	3.9	2.5	
Fe	56	2	He	1.932	18.0	22686	3.5	100	
Se	78	2	He	0.489	88.0	108	19.6	2	
As	75	2	He	-0.007	-189.1	133	4.3	2.5	
Ca	44	2	He	-0.164	-256.1	407	3.8	100	
Na	23	2	He	-2.835	-52.3	60381	0.6	100	
Mg	24	2	He	1.845	9.6	1280	4.9	100	
K	39	2	He	-2.174	-166.4	92602	1.0	100	
Mn	55	2	He	-0.135	-23.1	1440	4.8	2.5	
Co	59	2	He	-0.006	-124.7	303	16.3	2.5	
Ni	60	2	He	-0.025	-41.7	103	14.8	2.5	
Cu	63	2	He	0.018	69.4	670	5.2	2	
Zn	66	2	He	-0.183	-89.3	323	35.8	2.5	
Al	27	2	He	0.167	137.6	617	9.4	5	
B	11	1	No Gas	3.098	20.6	13557	5.7	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.223	27.7	24155	1.9	5	
Si	28	1	No Gas	2.764	42.6	325333	0.4	10	
Ag	107	1	No Gas	0.011	38.8	303	16.9	2.5	
Cd	111	1	No Gas	0.007	161.7	36	71.6	1	
Sr	88	1	No Gas	0.023	33.3	1113	15.9	2.5	
Mo	95	1	No Gas	0.123	47.1	743	36.9	2.5	
Sn	118	1	No Gas	0.105	6.0	1333	4.8	5	
Sb	121	1	No Gas	0.130	10.9	1560	8.5	2.5	
Ba	137	1	No Gas	-0.005	-233.9	170	27.0	2.5	
Tl	205	1	No Gas	0.945	27.6	18972	28.6	1	
Tl	203	1	No Gas	0.947	30.6	7960	31.1	1	
Pb	208	1	No Gas	0.018	30.6	1357	13.1	2.5	
U	238	1	No Gas	0.031	21.6	990	20.6	2.5	
Ca	43	2	He	-16.721	-22.6	17	34.6	100	
Sb	121	2	He	0.099	16.8	387	14.2	2.5	
Ti	47	2	He	0.044	86.7	7	86.6	2.5	
Cu	63	1	No Gas	0.028	59.9	1750	10.5	2.5	
Se	82	1	No Gas	0.457	75.6	155	35.5	2	

QC ISTD Table

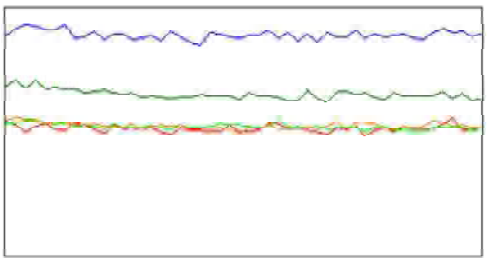
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	564986	1.57	502306	112.48	70	120	
Ge	72	2	He	385685	2.28	381710	101.04	70	120	
Ge	72	1	No Gas	1746272	2.10	1672653	104.40	70	120	
In	115	1	No Gas	1899414	1.49	1872489	101.44	70	120	
Bi	209	1	No Gas	1497957	3.62	1449392	103.35	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\082923A.b
Acq. Date-Time	8/29/2023 9:46:46 AM
Report Comment	---
Instrument Name	G8421A SG18523544

[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	5000	2584	25838.92		
24	20000	10482	104824.46		
59	20000	17903	179026.93		
115	50000	26410	264103.82		
208	20000	13117	131166.78		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.800	5.000	
24	2.139	5.000	
59	2.048	5.000	
115	2.535	5.000	
208	2.937	5.000	

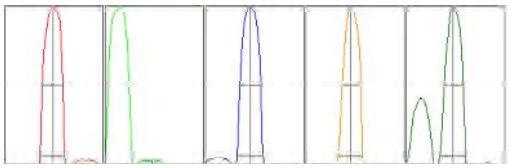
Mass	Background	Background (Required)	Background (Flag)
9	1.400		
24	1.600		
59	1.200		
115	1.000		
208	2.800		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.074 %
Doubly Charged	70 / 140 0.777 %

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	2592.97	9.00	8.90 - 9.10	
24	10232.54	23.95	23.90 - 24.10	
59	18046.04	58.90	58.90 - 59.10	
115	27008.08	114.90	114.90 - 115.10	
208	12867.60	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.742		
24	0.67	0.890		
59	0.62	0.781		
115	0.56	0.728		
208	0.58	0.781		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.57 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.4 V	Deflect	15.8 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-45 V
Omega Bias	-90 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	190 V		

QP Parameters

Mass Gain	134	Axis Gain	1.0005	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-0.9 mm

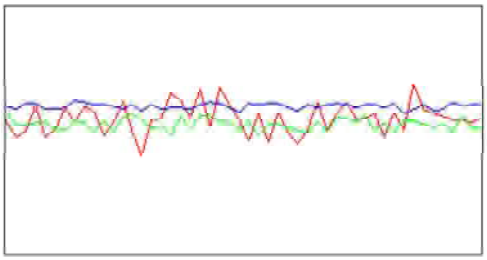
EM

Discriminator	4.7 mV	Analog HV	2967 V	Pulse HV	1613 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	200	110	1097.24		
24	1000	526	5255.18		
59	10000	5986	59860.74		

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

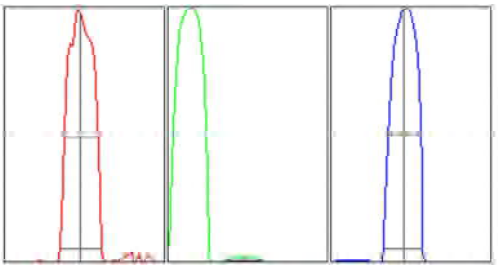
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	11.224	5.000	Fail
24	4.453	5.000	
59	1.842	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.200		
24	0.100		
59	0.100		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.413 %
Doubly Charged	70 / 140 1.004 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	111.76	8.95	8.90 - 9.10	
24	493.11	23.95	23.90 - 24.10	
59	5999.33	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.782		
24	0.68	0.783		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.61	0.739		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.57 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	1.0005	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-0.9 mm

EM

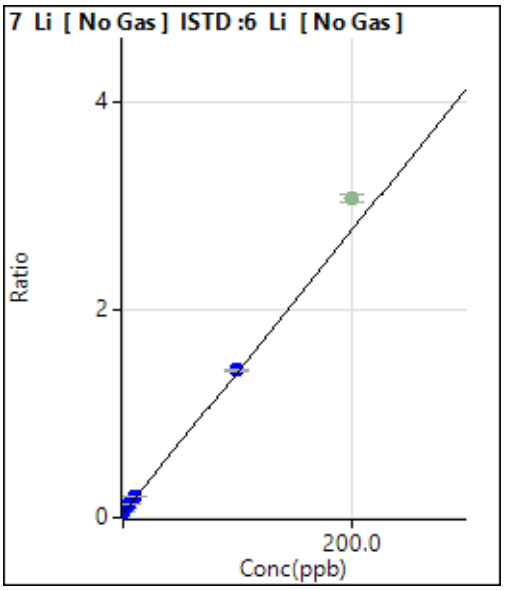
Discriminator	4.7 mV	Analog HV	2967 V	Pulse HV	1613 V

Calibration for 027_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\082823C.b\
Analysis File: 082823C.batch.bin
DA Date-Time: 8/28/2023 10:48:36 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	020CALB.d	CAL BLK	8/28/2023 5:35:21 PM
2	021CALS.d	2/10/200	8/28/2023 5:37:40 PM
3	022CALS.d	5/25/500	8/28/2023 5:39:59 PM
4	023CALS.d	10/50/100	8/28/2023 5:42:18 PM
5	024CALS.d	100/500/10K	8/28/2023 5:44:36 PM
6	025CALS.d	200/1000/20K	8/28/2023 5:46:52 PM

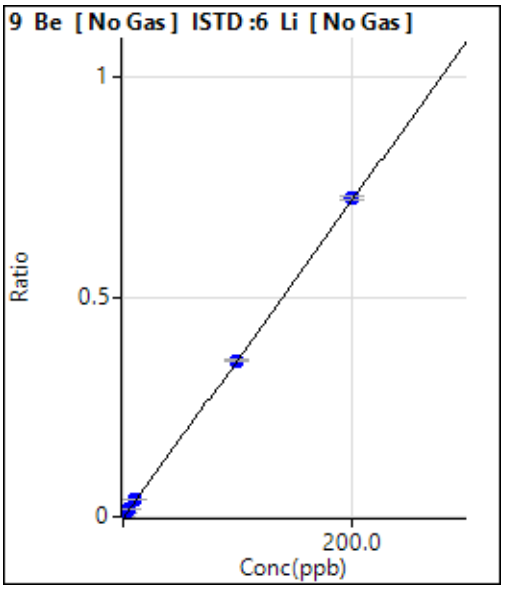
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19755.60	0.0597	P	1.2	
2	☐	2.000	2.155	29345.68	0.0890	P	0.7	7.8
3	☐	5.000	5.252	43431.88	0.1311	P	0.5	5.0
4	☐	10.000	10.735	67961.87	0.2057	P	2.1	7.4
5	☐	100.000	99.911	467265.77	1.4182	P	1.0	-0.1
6	☑	200.000		978234.75	3.0742	A	2.7	

y = 0.0136 * x + 0.0597
R = 1.0000
DL = 0.1641 ppb
BEC = 4.39 ppb

Weight: <None>
Min Conc: <None>

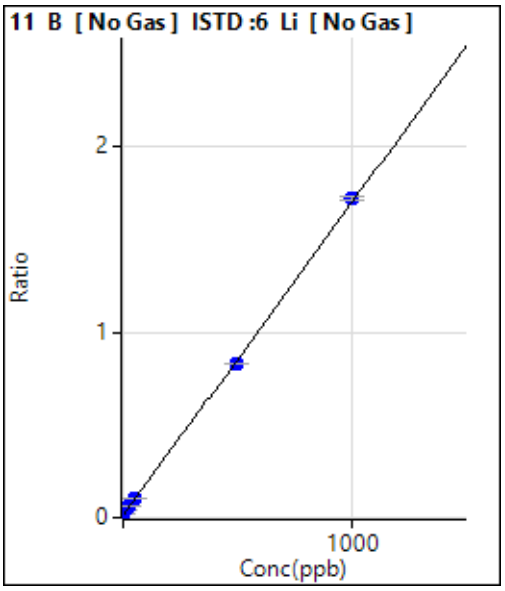


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41.67	0.0001	P	18.3	
2	☐	2.000	1.995	2418.57	0.0073	P	2.1	-0.3
3	☐	5.000	5.097	6144.72	0.0185	P	3.1	1.9
4	☐	10.000	10.358	12413.89	0.0376	P	1.8	3.6
5	☐	100.000	98.157	116931.70	0.3549	P	1.3	-1.8
6	☐	200.000	200.901	231113.10	0.7262	P	1.0	0.5

y = 0.0036 * x + 1.2589E-004
R = 0.9999
DL = 0.01916 ppb
BEC = 0.03483 ppb

Weight: <None>
Min Conc: <None>

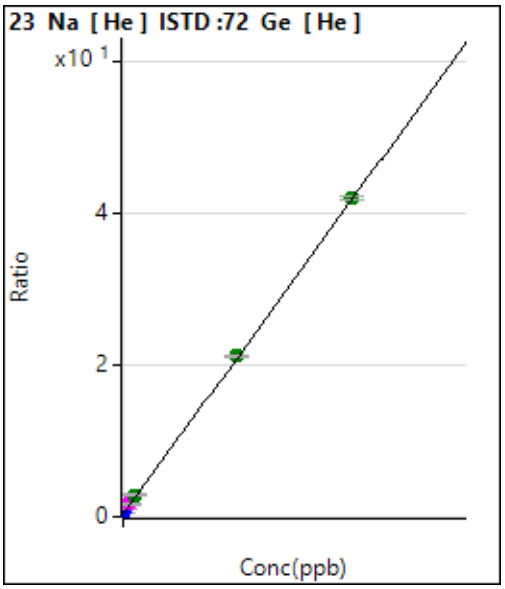
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7055.16	0.0213	P	4.0	
2	☐	10.000	9.761	12457.26	0.0378	P	3.3	-2.4
3	☐	25.000	25.984	21576.65	0.0651	P	0.9	3.9
4	☐	50.000	51.688	35849.13	0.1085	P	0.6	3.4
5	☐	500.000	480.849	274171.61	0.8321	P	0.8	-3.8
6	☐	1000.000	1009.469	548463.38	1.7234	P	0.7	0.9

y = 0.0017 * x + 0.0213
R = 0.9997
DL = 1.534 ppb
BEC = 12.64 ppb

Weight: <None>
Min Conc: <None>

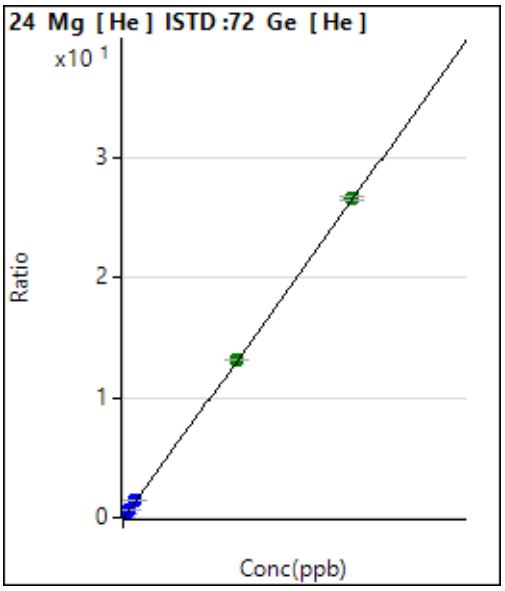


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	261740.41	0.5486	P	0.3	
2	☐	200.000	210.674	467344.97	0.9842	P	0.8	5.3
3	☐	500.000	542.713	799573.71	1.6707	M	4.9	8.5
4	☐	1000.000	1126.801	1378157.37	2.8783	A	2.1	12.7
5	☐	10000.00	9942.104	10194985.8	21.1039	A	1.1	-0.6
6	☐	20000.00	20021.43	19831536.7	41.9429	A	0.8	0.1

y = 0.0021 * x + 0.5486
R = 1.0000
DL = 2.693 ppb
BEC = 265.4 ppb

Weight: <None>
Min Conc: <None>

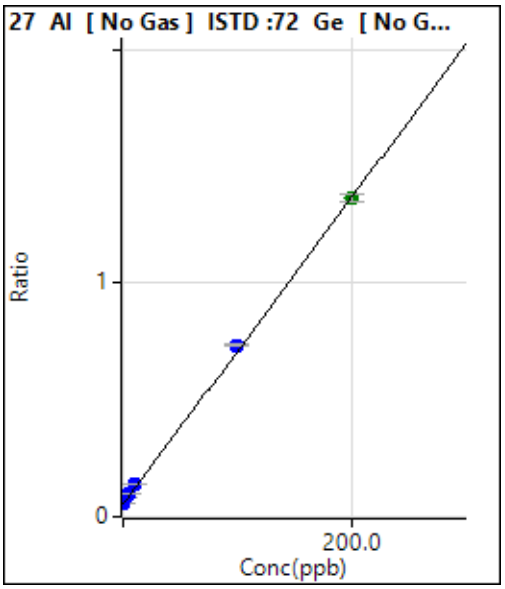
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1883.53	0.0039	P	9.0	
2	☐	200.000	202.338	129497.51	0.2727	P	1.5	1.2
3	☐	500.000	514.115	328718.16	0.6869	P	0.5	2.8
4	☐	1000.000	1031.823	658247.77	1.3746	P	0.9	3.2
5	☐	10000.00	9917.784	6366402.41	13.1783	A	0.3	-0.8
6	☐	20000.00	20039.14	12587801.4	26.6230	A	1.1	0.2

y = 0.0013 * x + 0.0039
R = 1.0000
DL = 0.8021 ppb
BEC = 2.971 ppb

Weight: <None>
Min Conc: <None>

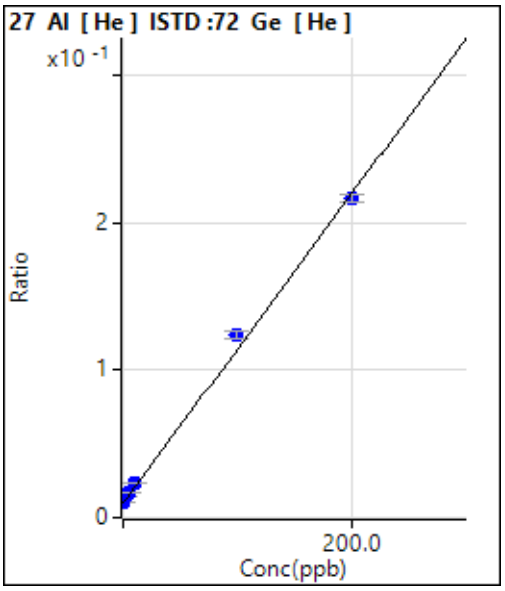


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54169.10	0.0607	P	0.6	
2	☐	2.000	3.501	75434.44	0.0837	P	1.0	75.1
3	☐	5.000	6.301	91634.47	0.1020	P	0.2	26.0
4	☐	10.000	11.520	121706.17	0.1363	P	0.7	15.2
5	☐	100.000	102.498	661379.65	0.7335	P	1.2	2.5
6	☐	200.000	198.628	1204452.87	1.3645	A	2.4	-0.7

y = 0.0066 * x + 0.0607
R = 0.9999
DL = 0.1688 ppb
BEC = 9.243 ppb

Weight: <None>
Min Conc: <None>

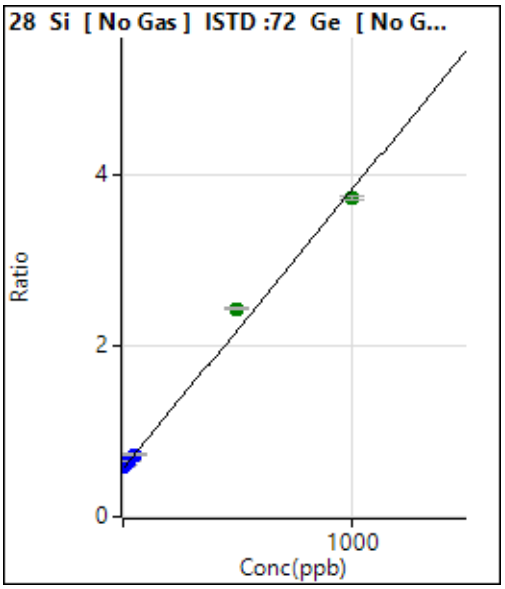
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5147.71	0.0108	P	1.8	
2	☐	2.000	3.526	6878.48	0.0145	P	6.9	76.3
3	☐	5.000	5.828	8089.17	0.0169	P	5.0	16.6
4	☐	10.000	11.703	11044.60	0.0231	P	1.8	17.0
5	☐	100.000	107.748	59818.84	0.1238	P	3.2	7.7
6	☐	200.000	196.005	102321.48	0.2164	P	2.0	-2.0

y = 0.0010 * x + 0.0108
R = 0.9990
DL = 0.5553 ppb
BEC = 10.29 ppb

Weight: <None>
Min Conc: <None>

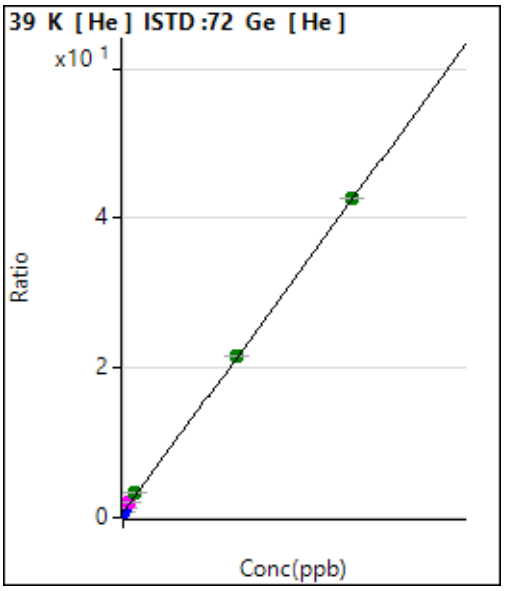


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520915.50	0.5835	P	0.2	
2	☐	10.000	6.954	546612.38	0.6062	P	0.0	-30.5
3	☐	25.000	20.171	583138.57	0.6493	P	0.4	-19.3
4	☐	50.000	44.489	650656.24	0.7287	P	1.0	-11.0
5	☐	500.000	568.406	2199211.06	2.4389	A	1.3	13.7
6	☐	1000.000	966.224	3298985.26	3.7374	A	1.2	-3.4

y = 0.0033 * x + 0.5835
R = 0.9965
DL = 1.178 ppb
BEC = 178.8 ppb

Weight: <None>
Min Conc: <None>

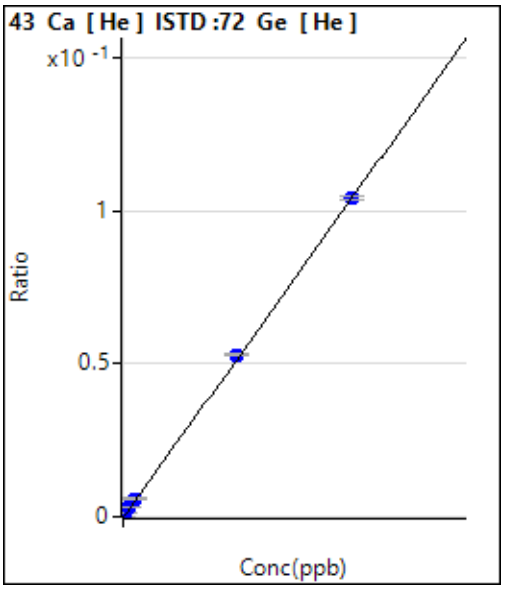
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426854.82	0.8948	P	0.8	
2	☐	200.000	199.994	623155.03	1.3123	P	1.1	0.0
3	☐	500.000	536.201	964039.07	2.0144	M	4.8	7.2
4	☐	1000.000	1137.562	1565955.44	3.2700	A	1.5	13.8
5	☐	10000.00	9948.123	10467148.5	21.6669	A	0.4	-0.5
6	☐	20000.00	20018.15	20186892.2	42.6935	A	0.4	0.1

y = 0.0021 * x + 0.8948
R = 1.0000
DL = 10.65 ppb
BEC = 428.5 ppb

Weight: <None>
Min Conc: <None>

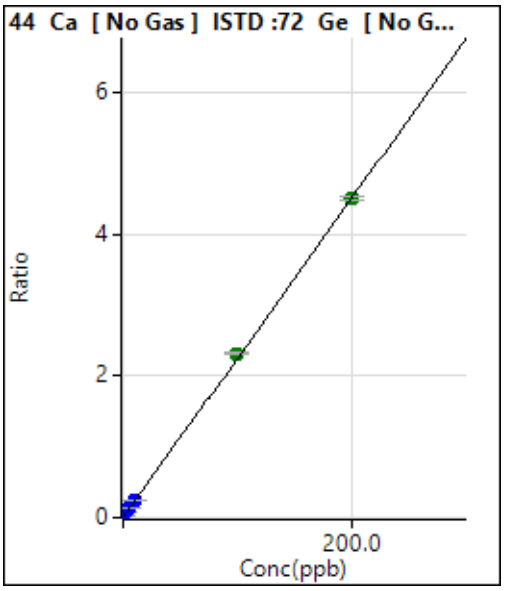


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.67	0.0001	P	22.6	
2	☐	200.000	240.602	663.36	0.0014	P	5.8	20.3
3	☐	500.000	549.065	1440.10	0.0030	P	4.4	9.8
4	☐	1000.000	1112.471	2850.35	0.0060	P	6.9	11.2
5	☐	10000.00	10128.99	25640.86	0.0531	P	1.9	1.3
6	☐	20000.00	19928.24	49308.64	0.1043	P	1.8	-0.4

y = 5.2260E-006 * x + 1.3966E-004
R = 1.0000
DL = 18.14 ppb
BEC = 26.72 ppb

Weight: <None>
Min Conc: <None>

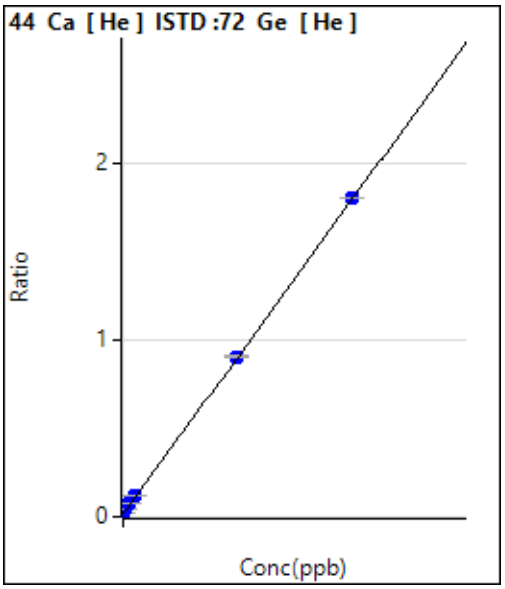
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22044.64	0.0247	P	1.0	
2	☐	2.000	2.018	63231.75	0.0701	P	2.9	0.9
3	☐	5.000	5.104	125387.77	0.1396	P	0.5	2.1
4	☐	10.000	10.294	229035.94	0.2565	P	0.5	2.9
5	☐	100.000	101.952	2092490.12	2.3205	A	0.7	2.0
6	☐	200.000	199.007	3977421.40	4.5060	A	0.8	-0.5

y = 0.0225 * x + 0.0247
R = 0.9999
DL = 0.03166 ppb
BEC = 1.097 ppb

Weight: <None>
Min Conc: <None>

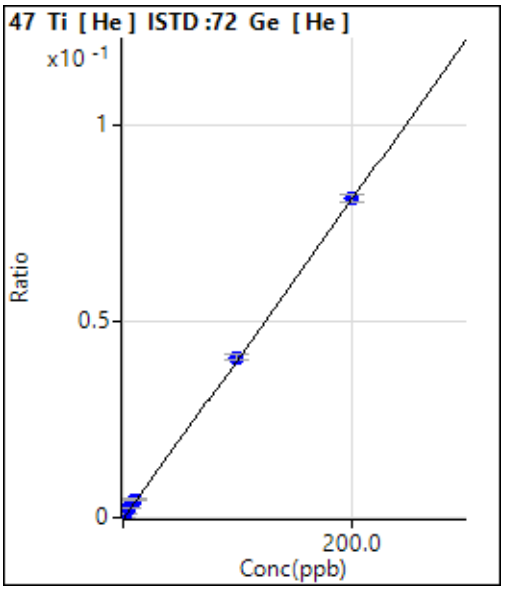


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11555.06	0.0242	P	0.4	
2	☐	200.000	223.406	20936.28	0.0441	P	0.6	11.7
3	☐	500.000	529.574	34132.63	0.0713	P	1.3	5.9
4	☐	1000.000	1082.095	57677.72	0.1205	P	2.4	8.2
5	☐	10000.00	9935.692	438599.86	0.9079	P	0.9	-0.6
6	☐	20000.00	20027.07	853670.95	1.8055	P	0.3	0.1

y = 8.8941E-005 * x + 0.0242
R = 1.0000
DL = 2.949 ppb
BEC = 272.3 ppb

Weight: <None>
Min Conc: <None>

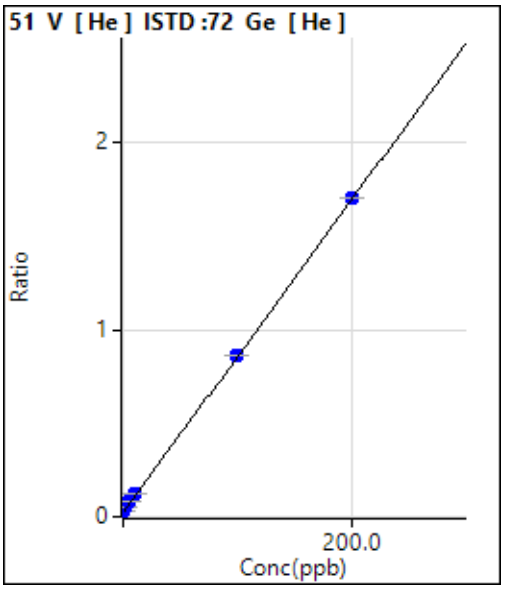
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	0.7	
2	☐	2.000	2.365	466.68	0.0010	P	7.0	18.2
3	☐	5.000	5.653	1110.07	0.0023	P	5.6	13.1
4	☐	10.000	11.110	2173.55	0.0045	P	6.6	11.1
5	☐	100.000	99.978	19654.46	0.0407	P	3.6	0.0
6	☐	200.000	199.935	38457.49	0.0813	P	2.3	0.0

y = 4.0667E-004 * x + 2.0962E-005
R = 1.0000
DL = 0.001027 ppb
BEC = 0.05154 ppb

Weight: <None>
Min Conc: <None>

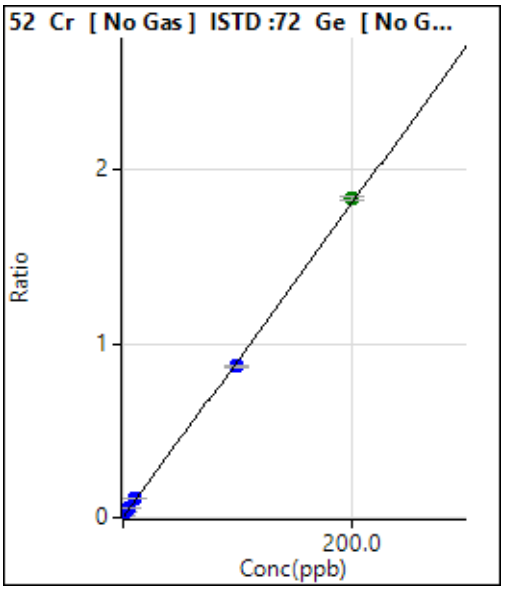


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14722.42	0.0309	P	2.1	
2	☐	2.000	2.437	24328.28	0.0512	P	0.2	21.9
3	☐	5.000	5.727	37678.30	0.0787	P	1.2	14.5
4	☐	10.000	11.324	60102.11	0.1255	P	2.4	13.2
5	☐	100.000	99.508	416740.64	0.8626	P	0.6	-0.5
6	☐	200.000	200.157	805685.32	1.7040	P	0.5	0.1

y = 0.0084 * x + 0.0309
R = 1.0000
DL = 0.2347 ppb
BEC = 3.692 ppb

Weight: <None>
Min Conc: <None>

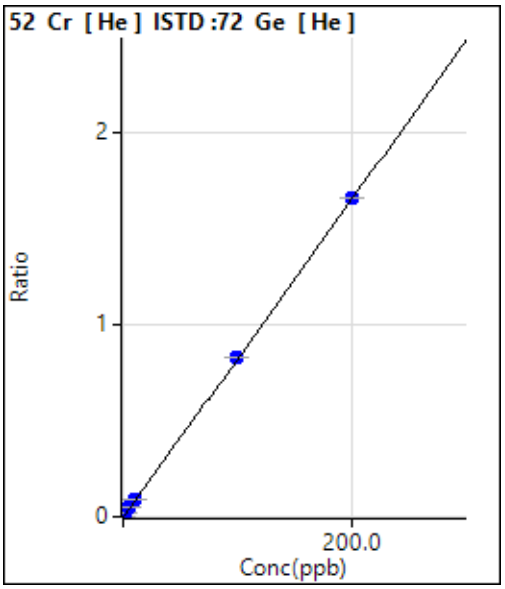
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10314.07	0.0116	P	6.3	
2	☐	2.000	2.016	26829.84	0.0298	P	0.8	0.8
3	☐	5.000	5.164	52249.98	0.0582	P	0.4	3.3
4	☐	10.000	10.454	94592.40	0.1059	P	1.2	4.5
5	☐	100.000	95.108	784673.71	0.8703	P	1.5	-4.9
6	☐	200.000	202.419	1623415.23	1.8391	A	1.6	1.2

y = 0.0090 * x + 0.0116
R = 0.9996
DL = 0.2424 ppb
BEC = 1.28 ppb

Weight: <None>
Min Conc: <None>

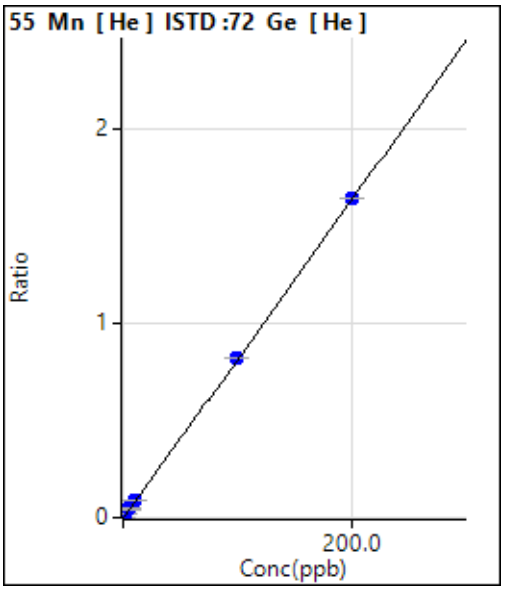


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1916.84	0.0040	P	3.8	
2	☐	2.000	2.221	10637.64	0.0224	P	4.4	11.0
3	☐	5.000	5.528	23817.58	0.0498	P	1.6	10.6
4	☐	10.000	10.880	45040.99	0.0941	P	1.4	8.8
5	☐	100.000	99.817	401031.10	0.8301	P	0.4	-0.2
6	☐	200.000	200.032	784667.44	1.6595	P	0.4	0.0

y = 0.0083 * x + 0.0040
R = 1.0000
DL = 0.05598 ppb
BEC = 0.4856 ppb

Weight: <None>
Min Conc: <None>

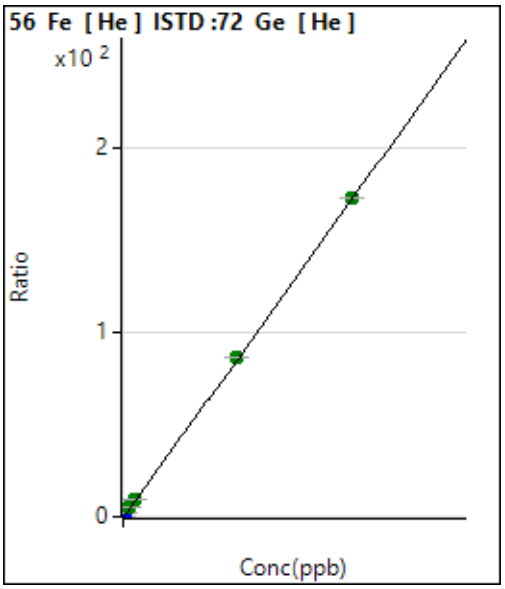
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.08	0.0027	P	2.9	
2	☐	2.000	2.075	9353.36	0.0197	P	5.0	3.7
3	☐	5.000	5.112	21333.68	0.0446	P	2.2	2.2
4	☐	10.000	10.744	43432.82	0.0907	P	1.5	7.4
5	☐	100.000	99.778	396120.37	0.8200	P	0.4	-0.2
6	☐	200.000	200.070	776115.59	1.6414	P	0.4	0.0

y = 0.0082 * x + 0.0027
R = 1.0000
DL = 0.02865 ppb
BEC = 0.3301 ppb

Weight: <None>
Min Conc: <None>

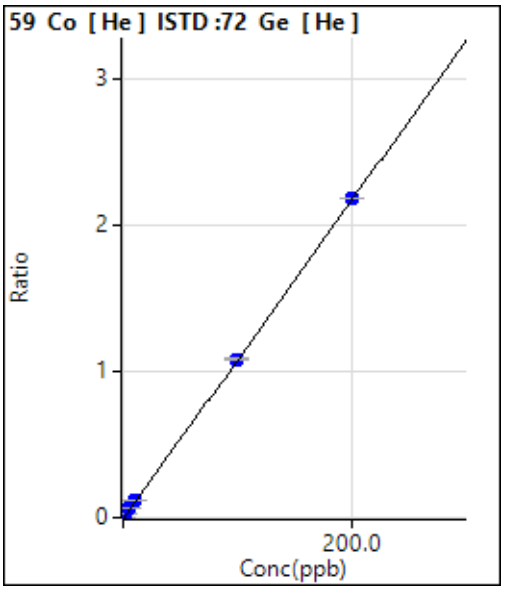


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	49187.65	0.1031	P	0.1	
2	☐	200.000	209.977	911137.07	1.9188	P	0.9	5.0
3	☐	500.000	563.692	2382086.16	4.9775	A	0.8	12.7
4	☐	1000.000	1103.338	4618358.47	9.6439	A	0.8	10.3
5	☐	10000.00	9975.617	41722206.0	86.3647	A	0.5	-0.2
6	☐	20000.00	20005.33	81844063.7	173.094	A	0.3	0.0

y = 0.0086 * x + 0.1031
R = 1.0000
DL = 0.03999 ppb
BEC = 11.92 ppb

Weight: <None>
Min Conc: <None>

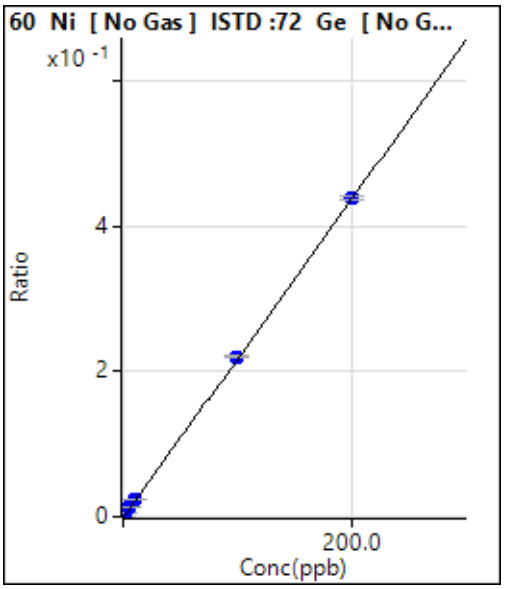
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.68	0.0007	P	23.4	
2	☐	2.000	2.070	11024.61	0.0232	P	1.3	3.5
3	☐	5.000	5.453	28757.46	0.0601	P	2.3	9.1
4	☐	10.000	10.940	57404.55	0.1199	P	1.4	9.4
5	☐	100.000	99.302	523050.18	1.0827	P	1.1	-0.7
6	☐	200.000	200.290	1032280.32	2.1832	P	0.0	0.1

y = 0.0109 * x + 6.6433E-004
R = 1.0000
DL = 0.04284 ppb
BEC = 0.06097 ppb

Weight: <None>
Min Conc: <None>

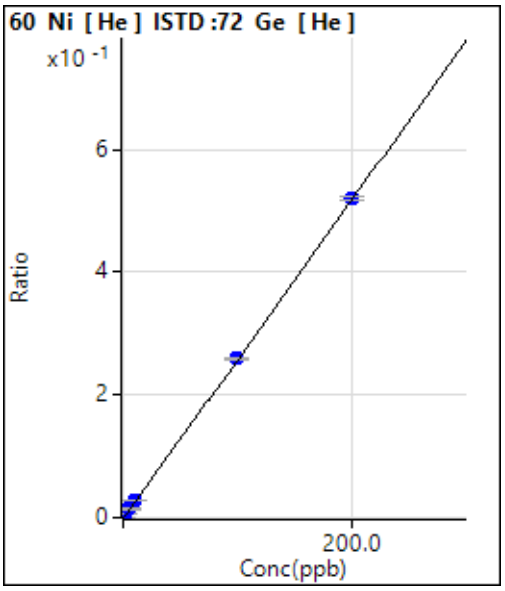


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.01	0.0005	P	17.3	
2	☐	2.000	2.284	4974.33	0.0055	P	5.2	14.2
3	☐	5.000	5.427	11144.73	0.0124	P	2.9	8.5
4	☐	10.000	11.007	22014.69	0.0247	P	0.7	10.1
5	☐	100.000	100.255	198801.60	0.2205	P	0.5	0.3
6	☐	200.000	199.809	387412.36	0.4389	P	0.9	-0.1

y = 0.0022 * x + 5.0406E-004
R = 1.0000
DL = 0.1195 ppb
BEC = 0.2297 ppb

Weight: <None>
Min Conc: <None>

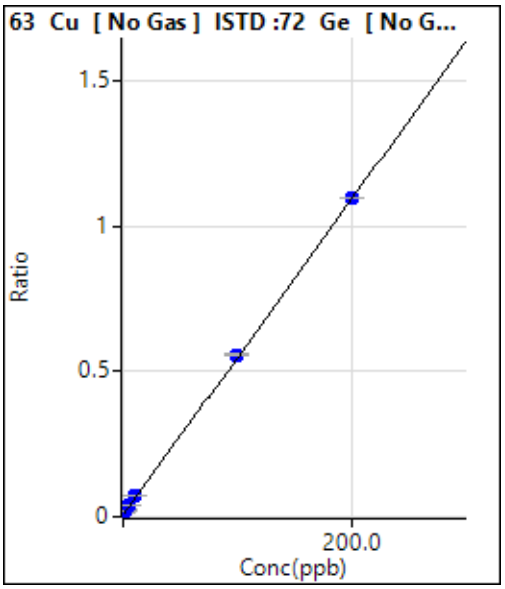
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0003	P	42.0	
2	☐	2.000	2.038	2680.32	0.0056	P	5.4	1.9
3	☐	5.000	5.359	6831.84	0.0143	P	2.9	7.2
4	☐	10.000	10.447	13173.25	0.0275	P	3.1	4.5
5	☐	100.000	99.569	125168.47	0.2591	P	0.6	-0.4
6	☐	200.000	200.184	246134.27	0.5206	P	0.7	0.1

y = 0.0026 * x + 3.4873E-004
R = 1.0000
DL = 0.1693 ppb
BEC = 0.1342 ppb

Weight: <None>
Min Conc: <None>

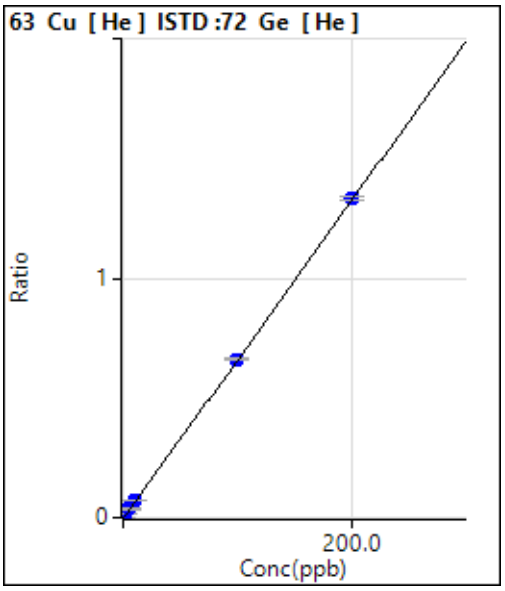


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10230.66	0.0115	P	4.7	
2	☐	2.000	2.105	20642.59	0.0229	P	2.9	5.2
3	☐	5.000	5.374	36509.47	0.0407	P	1.4	7.5
4	☐	10.000	10.774	62486.92	0.0700	P	1.6	7.7
5	☐	100.000	100.333	501769.15	0.5565	P	0.8	0.3
6	☐	200.000	199.784	967999.00	1.0967	P	0.4	-0.1

y = 0.0054 * x + 0.0115
R = 1.0000
DL = 0.2979 ppb
BEC = 2.11 ppb

Weight: <None>
Min Conc: <None>

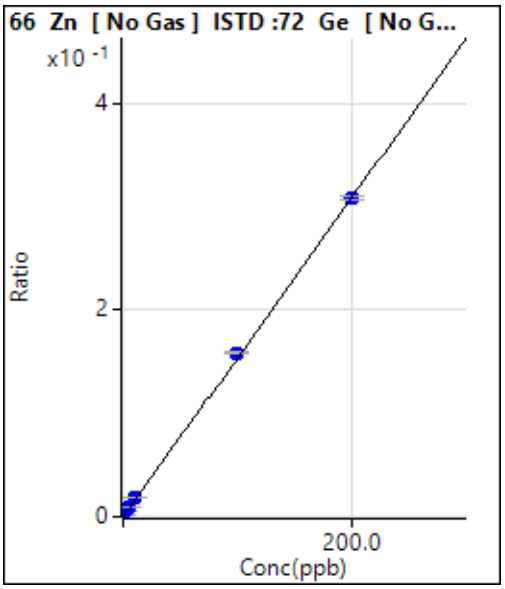
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.70	0.0015	P	3.2	
2	☐	2.000	2.183	7602.30	0.0160	P	4.6	9.2
3	☐	5.000	5.305	17588.32	0.0368	P	4.8	6.1
4	☐	10.000	10.668	34664.51	0.0724	P	1.2	6.7
5	☐	100.000	99.047	318662.13	0.6596	P	1.3	-1.0
6	☐	200.000	200.434	630430.32	1.3333	P	0.9	0.2

y = 0.0066 * x + 0.0015
R = 1.0000
DL = 0.02199 ppb
BEC = 0.2261 ppb

Weight: <None>
Min Conc: <None>

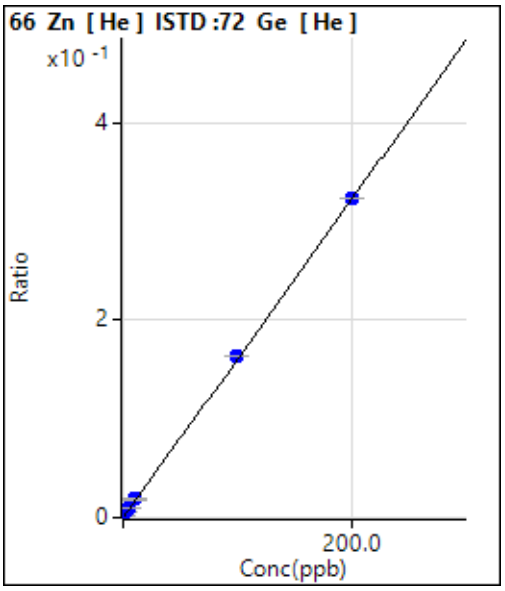


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1133.40	0.0013	P	3.0	
2	☐	2.000	2.576	4730.92	0.0052	P	3.5	28.8
3	☐	5.000	5.703	9046.47	0.0101	P	0.3	14.1
4	☐	10.000	11.103	16436.86	0.0184	P	2.5	11.0
5	☐	100.000	101.846	142912.77	0.1585	P	0.5	1.8
6	☐	200.000	198.999	272263.31	0.3085	P	1.3	-0.5

y = 0.0015 * x + 0.0013
R = 0.9999
DL = 0.07412 ppb
BEC = 0.8225 ppb

Weight: <None>
Min Conc: <None>

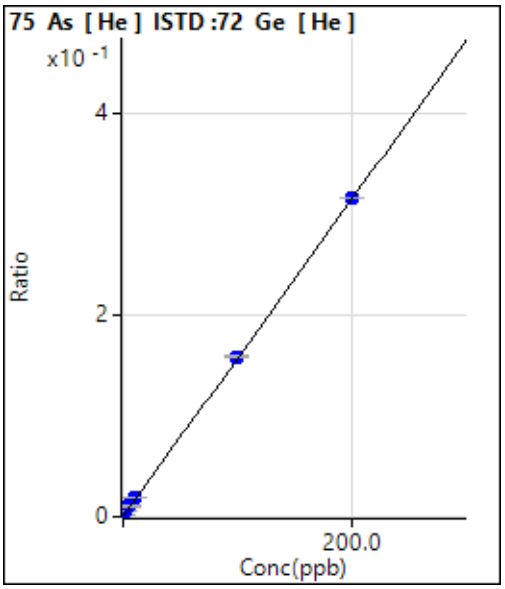
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	646.70	0.0014	P	11.7	
2	☐	2.000	2.424	2500.28	0.0053	P	2.9	21.2
3	☐	5.000	5.371	4794.27	0.0100	P	3.0	7.4
4	☐	10.000	10.654	8876.39	0.0185	P	3.2	6.5
5	☐	100.000	100.463	78935.82	0.1634	P	0.7	0.5
6	☐	200.000	199.722	152961.78	0.3235	P	0.3	-0.1

y = 0.0016 * x + 0.0014
R = 1.0000
DL = 0.2957 ppb
BEC = 0.84 ppb

Weight: <None>
Min Conc: <None>

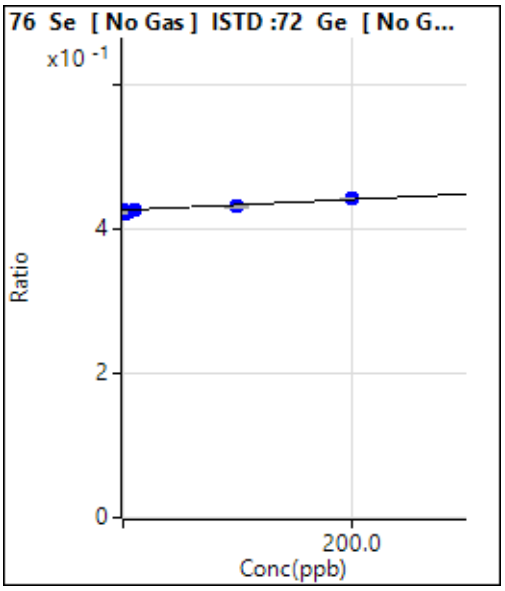


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	855.59	0.0018	P	4.5	
2	☐	2.000	2.166	2472.46	0.0052	P	6.2	8.3
3	☐	5.000	5.525	5025.41	0.0105	P	2.3	10.5
4	☐	10.000	10.922	9104.22	0.0190	P	1.2	9.2
5	☐	100.000	99.981	76991.21	0.1594	P	0.8	0.0
6	☐	200.000	199.948	149854.98	0.3169	P	0.1	0.0

y = 0.0016 * x + 0.0018
R = 1.0000
DL = 0.1522 ppb
BEC = 1.138 ppb

Weight: <None>
Min Conc: <None>

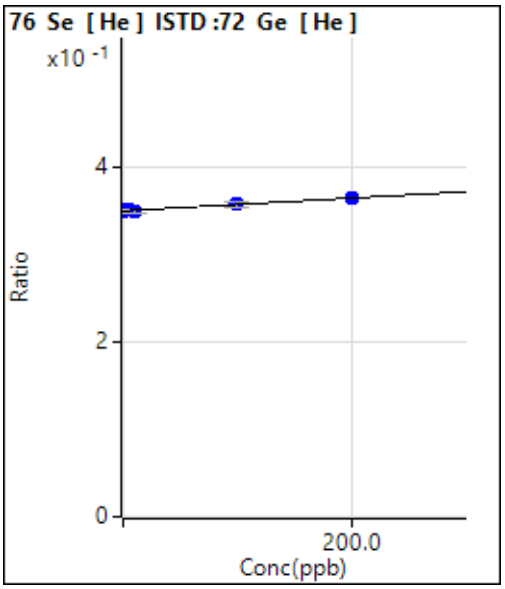
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	381195.84	0.4270	P	0.8	
2	☐	2.000	-63.274	380755.72	0.4223	P	1.2	-3263.
3	☐	5.000	-44.262	380499.50	0.4237	P	0.4	-985.2
4	☐	10.000	4.293	381551.80	0.4273	P	0.5	-57.1
5	☐	100.000	64.909	389378.16	0.4318	P	0.7	-35.1
6	☐	200.000	219.715	391350.55	0.4434	P	0.4	9.9

y = 7.4506E-005 * x + 0.4270
R = 0.9641
DL = 134.4 ppb
BEC = 5731 ppb

Weight: <None>
Min Conc: <None>

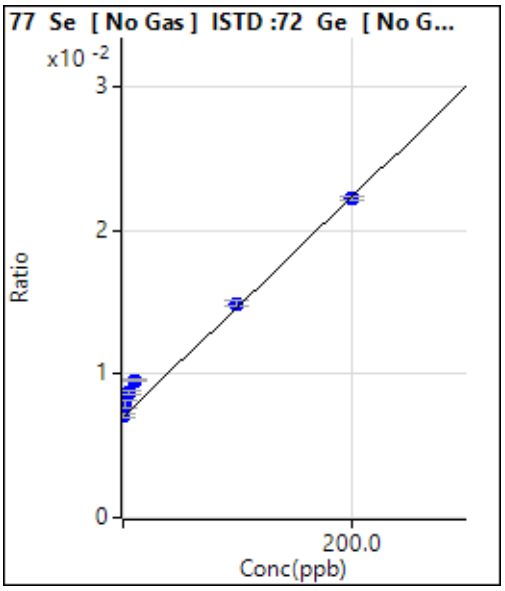


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	167113.54	0.3503	P	0.5	
2	☐	2.000	8.582	166640.88	0.3509	P	1.1	329.1
3	☐	5.000	7.639	167909.61	0.3509	P	0.6	52.8
4	☐	10.000	-2.645	167646.09	0.3501	P	1.2	-126.4
5	☐	100.000	100.977	172820.47	0.3577	P	1.6	1.0
6	☐	200.000	200.012	172603.52	0.3650	P	0.4	0.0

y = 7.3705E-005 * x + 0.3503
R = 0.9969
DL = 67.56 ppb
BEC = 4753 ppb

Weight: <None>
Min Conc: <None>

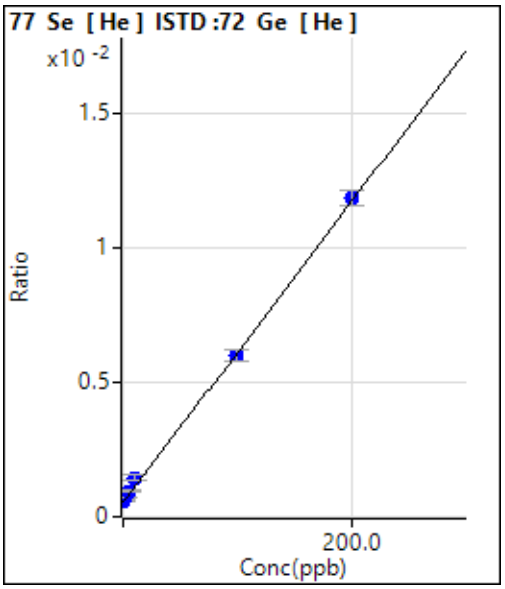
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6378.29	0.0071	P	4.1	
2	☐	2.000	9.837	7122.01	0.0079	P	7.3	391.9
3	☐	5.000	20.146	7799.10	0.0087	P	2.8	302.9
4	☐	10.000	31.868	8556.21	0.0096	P	1.8	218.7
5	☐	100.000	101.943	13470.26	0.0149	P	2.2	1.9
6	☐	200.000	197.478	19634.68	0.0222	P	1.2	-1.3

y = 7.6466E-005 * x + 0.0071
R = 0.9950
DL = 11.52 ppb
BEC = 93.43 ppb

Weight: <None>
Min Conc: <None>

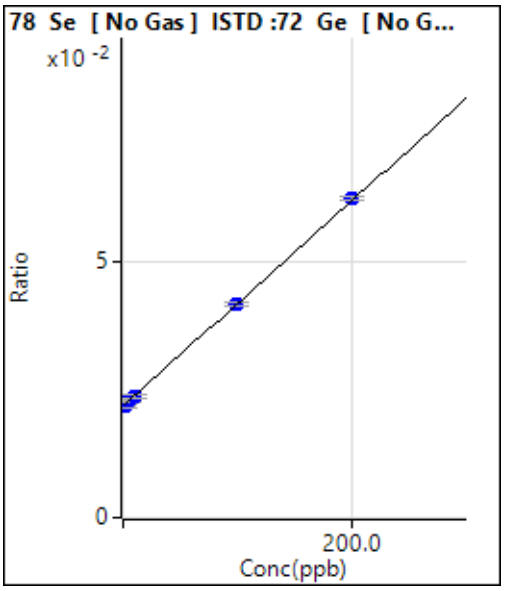


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0006	P	8.7	
2	☐	2.000	1.809	330.01	0.0007	P	2.5	-9.5
3	☐	5.000	6.326	453.35	0.0009	P	8.8	26.5
4	☐	10.000	15.399	696.70	0.0015	P	13.1	54.0
5	☐	100.000	96.725	2897.04	0.0060	P	7.8	-3.3
6	☐	200.000	201.337	5597.92	0.0118	P	5.0	0.7

y = 5.5860E-005 * x + 5.9386E-004
R = 0.9994
DL = 2.781 ppb
BEC = 10.63 ppb

Weight: <None>
Min Conc: <None>

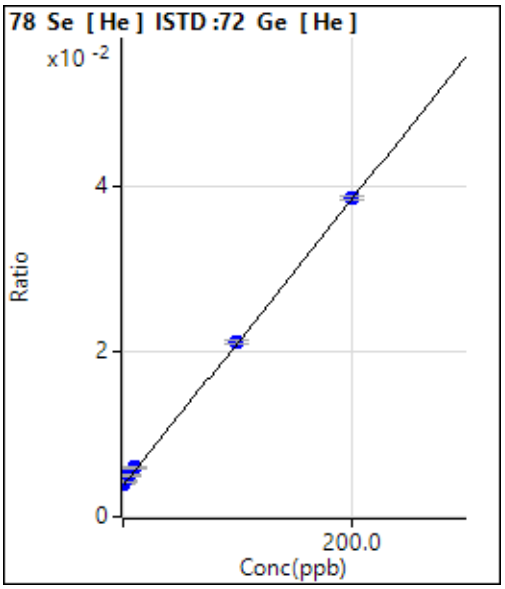
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19781.52	0.0222	P	3.0	
2	☐	2.000	-2.118	19597.86	0.0217	P	3.1	-205.9
3	☐	5.000	3.293	20489.22	0.0228	P	2.5	-34.1
4	☐	10.000	7.832	21180.34	0.0237	P	2.2	-21.7
5	☐	100.000	97.831	37602.75	0.0417	P	2.1	-2.2
6	☐	200.000	201.277	55056.12	0.0624	P	1.6	0.6

y = 1.9981E-004 * x + 0.0222
R = 0.9998
DL = 10.09 ppb
BEC = 110.9 ppb

Weight: <None>
Min Conc: <None>

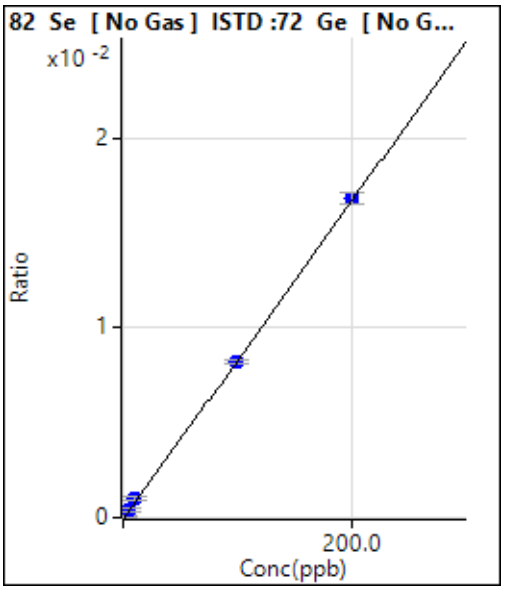


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1898.81	0.0040	P	1.6	
2	☐	2.000	1.997	2054.17	0.0043	P	3.2	-0.1
3	☐	5.000	6.332	2430.23	0.0051	P	3.9	26.6
4	☐	10.000	11.731	2880.32	0.0060	P	4.1	17.3
5	☐	100.000	99.521	10259.25	0.0212	P	2.5	-0.5
6	☐	200.000	200.120	18291.05	0.0387	P	0.7	0.1

y = 1.7341E-004 * x + 0.0040
R = 1.0000
DL = 1.091 ppb
BEC = 22.95 ppb

Weight: <None>
Min Conc: <None>

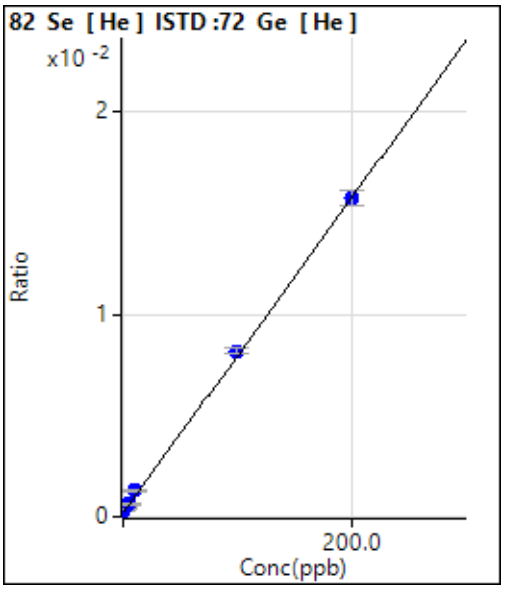
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-16.30	0.0000	P	-197.	
2	☐	2.000	0.568	26.55	0.0000	P	38.0	-71.6
3	☐	5.000	4.993	359.97	0.0004	P	50.0	-0.1
4	☐	10.000	11.978	880.22	0.0010	P	14.8	19.8
5	☐	100.000	98.089	7402.46	0.0082	P	3.3	-1.9
6	☐	200.000	200.871	14852.56	0.0168	P	4.1	0.4

y = 8.3866E-005 * x - 1.8234E-005
R = 0.9998
DL = 1.286 ppb
BEC = -0.2174 ppb

Weight: <None>
Min Conc: <None>

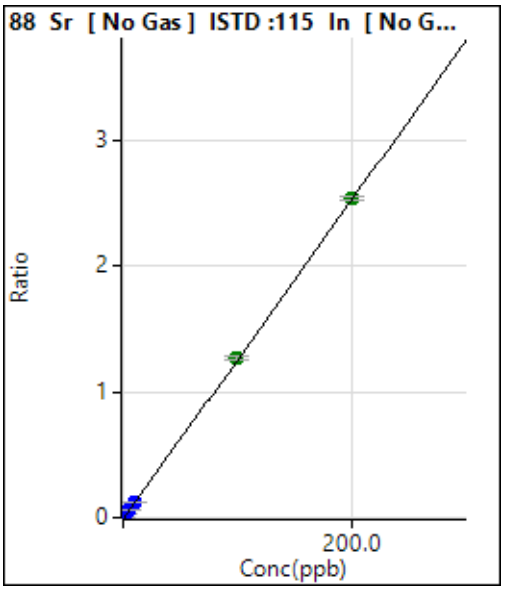


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0003	P	23.7	
2	☐	2.000	1.997	203.34	0.0004	P	21.9	-0.1
3	☐	5.000	4.647	303.34	0.0006	P	20.3	-7.1
4	☐	10.000	12.968	613.36	0.0013	P	4.5	29.7
5	☐	100.000	101.789	3953.98	0.0082	P	4.1	1.8
6	☐	200.000	198.966	7442.19	0.0157	P	4.4	-0.5

y = 7.7723E-005 * x + 2.7278E-004
R = 0.9998
DL = 2.496 ppb
BEC = 3.51 ppb

Weight: <None>
Min Conc: <None>

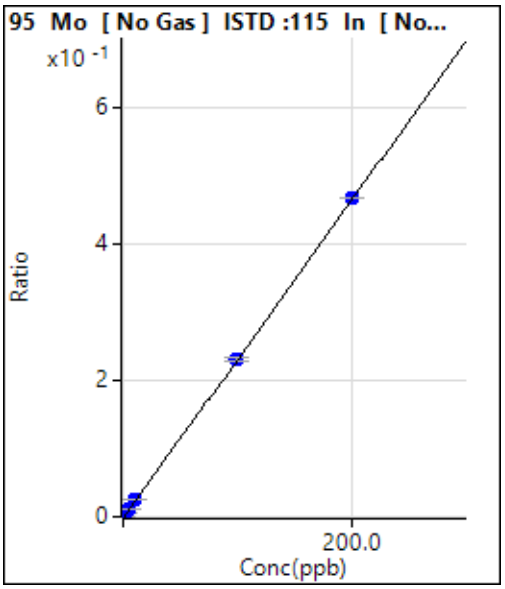
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	20.4	
2	☐	2.000	1.959	26192.75	0.0253	P	1.7	-2.1
3	☐	5.000	4.887	64672.98	0.0624	P	0.2	-2.3
4	☐	10.000	9.936	130997.57	0.1263	P	0.5	-0.6
5	☐	100.000	99.898	1310977.92	1.2658	A	1.7	-0.1
6	☐	200.000	200.058	2574710.01	2.5345	A	0.9	0.0

y = 0.0127 * x + 4.5934E-004
R = 1.0000
DL = 0.0222 ppb
BEC = 0.03626 ppb

Weight: <None>
Min Conc: <None>

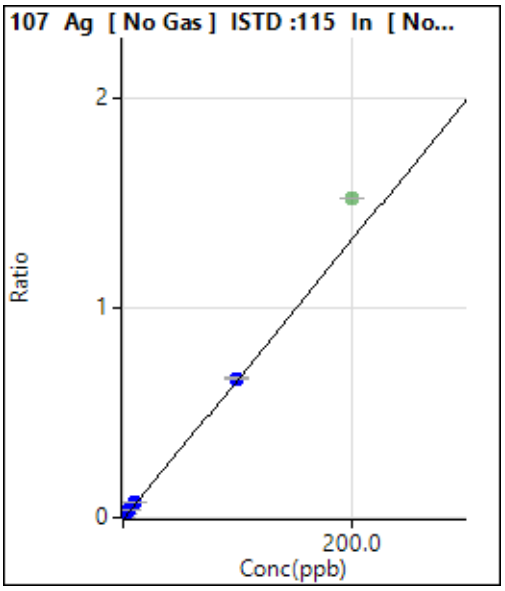


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	24.1	
2	☐	2.000	2.030	5007.69	0.0048	P	1.5	1.5
3	☐	5.000	5.252	12806.34	0.0123	P	1.8	5.0
4	☐	10.000	10.439	25357.79	0.0245	P	3.0	4.4
5	☐	100.000	99.141	239698.15	0.2314	P	2.1	-0.9
6	☐	200.000	200.401	475149.93	0.4677	P	0.5	0.2

y = 0.0023 * x + 9.3799E-005
R = 1.0000
DL = 0.02903 ppb
BEC = 0.0402 ppb

Weight: <None>
Min Conc: <None>

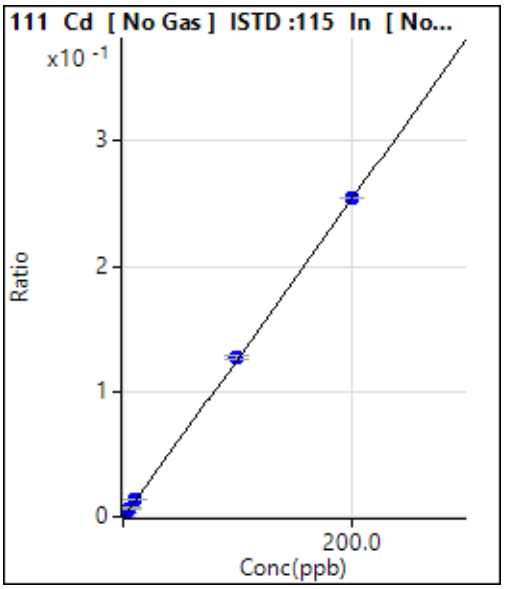
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	220.01	0.0002	P	20.2	
2	☐	2.000	2.296	16090.00	0.0155	P	1.1	14.8
3	☐	5.000	5.608	38991.26	0.0376	P	3.2	12.2
4	☐	10.000	11.143	77272.28	0.0745	P	2.3	11.4
5	☐	100.000	99.849	689668.53	0.6659	P	1.6	-0.2
6	☑	200.000		1550495.86	1.5263	A	0.2	

y = 0.0067 * x + 2.1350E-004
R = 0.9999
DL = 0.01936 ppb
BEC = 0.03202 ppb

Weight: <None>
Min Conc: <None>

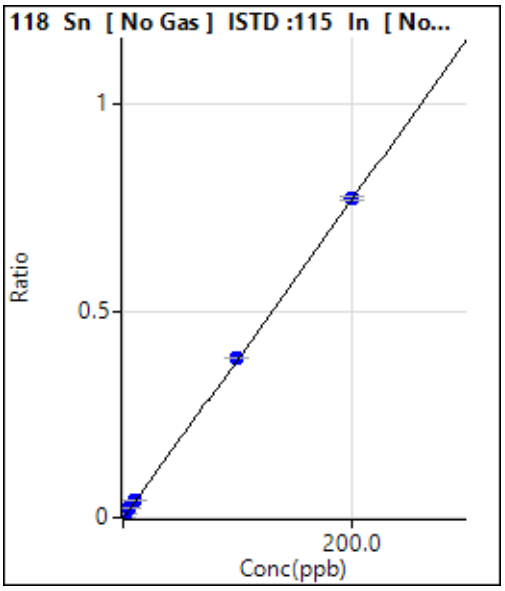


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	32.9	
2	☐	2.000	2.210	2963.72	0.0029	P	3.0	10.5
3	☐	5.000	5.276	7015.34	0.0068	P	4.9	5.5
4	☐	10.000	10.493	13900.89	0.0134	P	3.2	4.9
5	☐	100.000	100.230	132221.05	0.1277	P	2.2	0.2
6	☐	200.000	199.852	258558.99	0.2545	P	0.5	-0.1

y = 0.0013 * x + 4.5286E-005
R = 1.0000
DL = 0.03515 ppb
BEC = 0.03557 ppb

Weight: <None>
Min Conc: <None>

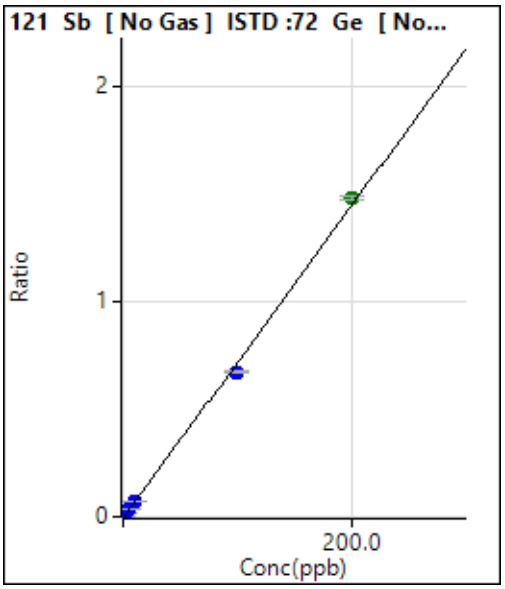
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1483.45	0.0014	P	5.6	
2	☐	2.000	2.097	9863.90	0.0095	P	4.5	4.8
3	☐	5.000	5.227	22379.43	0.0216	P	1.2	4.5
4	☐	10.000	10.427	43154.58	0.0416	P	2.0	4.3
5	☐	100.000	99.837	399911.83	0.3861	P	0.8	-0.2
6	☐	200.000	200.054	784472.41	0.7722	P	0.8	0.0

y = 0.0039 * x + 0.0014
R = 1.0000
DL = 0.06228 ppb
BEC = 0.3735 ppb

Weight: <None>
Min Conc: <None>

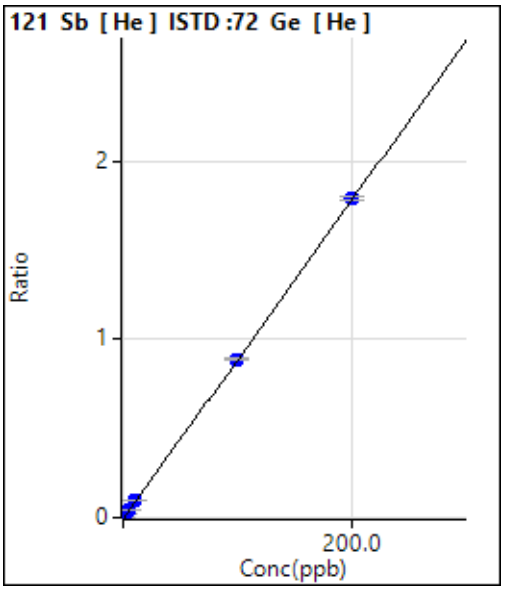


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	350.02	0.0004	P	24.3	
2	☐	2.000	1.946	13130.09	0.0146	P	3.6	-2.7
3	☐	5.000	4.949	32707.82	0.0364	P	1.1	-1.0
4	☐	10.000	9.882	64585.64	0.0723	P	1.1	-1.2
5	☐	100.000	92.347	606575.53	0.6727	P	1.2	-7.7
6	☐	200.000	203.834	1310256.62	1.4844	A	1.2	1.9

y = 0.0073 * x + 3.9200E-004
R = 0.9990
DL = 0.03932 ppb
BEC = 0.05384 ppb

Weight: <None>
Min Conc: <None>

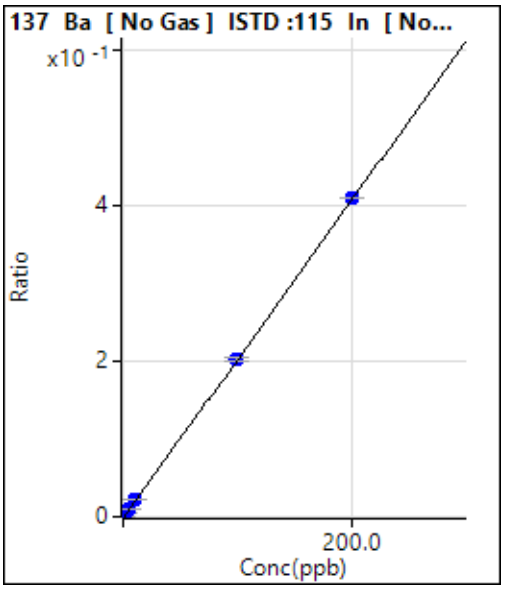
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.68	0.0005	P	10.3	
2	☐	2.000	2.088	9116.65	0.0192	P	2.4	4.4
3	☐	5.000	5.119	22182.42	0.0464	P	2.6	2.4
4	☐	10.000	10.688	46087.86	0.0962	P	0.5	6.9
5	☐	100.000	99.418	430438.54	0.8910	P	0.9	-0.6
6	☐	200.000	200.253	848354.23	1.7942	P	0.8	0.1

y = 0.0090 * x + 4.9599E-004
R = 1.0000
DL = 0.01718 ppb
BEC = 0.05537 ppb

Weight: <None>
Min Conc: <None>

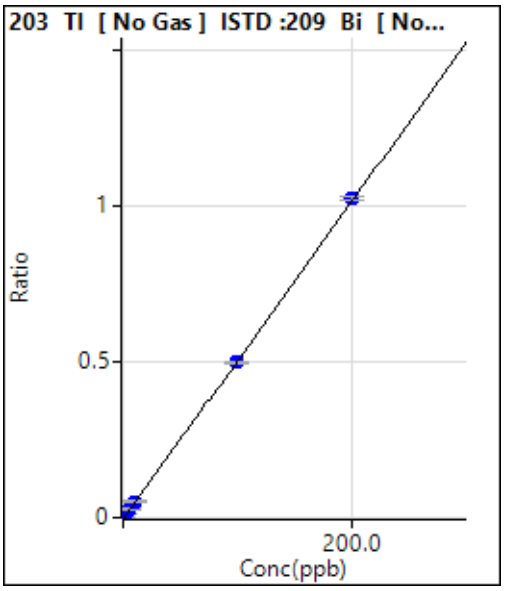


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	36.1	
2	☐	2.000	2.109	4567.57	0.0044	P	9.8	5.5
3	☐	5.000	5.276	11288.41	0.0109	P	0.8	5.5
4	☐	10.000	10.791	22980.75	0.0222	P	3.0	7.9
5	☐	100.000	99.037	209856.39	0.2026	P	2.1	-1.0
6	☐	200.000	200.434	416491.11	0.4100	P	0.6	0.2

y = 0.0020 * x + 9.3706E-005
R = 1.0000
DL = 0.04968 ppb
BEC = 0.04582 ppb

Weight: <None>
Min Conc: <None>

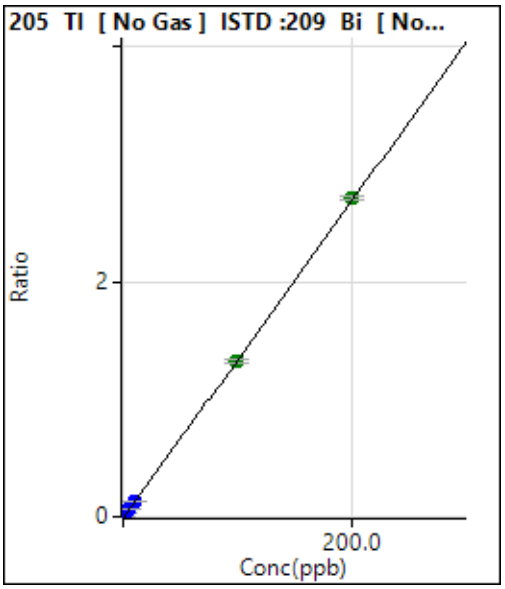
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.68	0.0002	P	4.1	
2	☐	2.000	2.182	12910.26	0.0114	P	3.0	9.1
3	☐	5.000	5.391	31643.68	0.0278	P	0.6	7.8
4	☐	10.000	10.211	59484.83	0.0523	P	1.1	2.1
5	☐	100.000	97.756	570596.27	0.4990	P	1.3	-2.2
6	☐	200.000	201.100	1146129.62	1.0263	P	1.0	0.5

y = 0.0051 * x + 2.4686E-004
R = 0.9999
DL = 0.005927 ppb
BEC = 0.04838 ppb

Weight: <None>
Min Conc: <None>

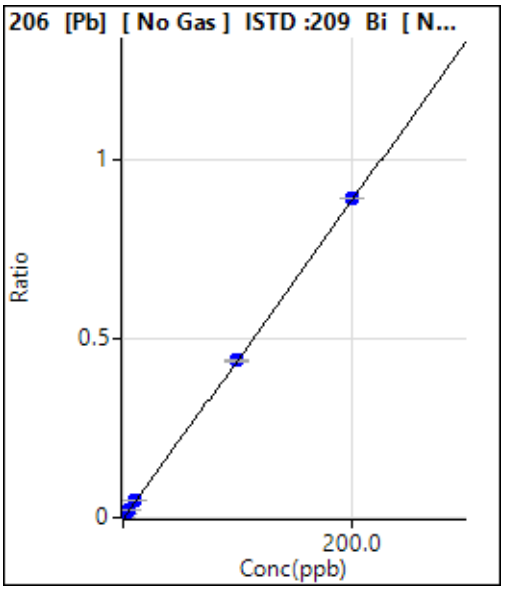


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520.02	0.0005	P	8.2	
2	☐	2.000	1.952	30434.08	0.0268	P	2.3	-2.4
3	☐	5.000	4.881	75672.99	0.0664	P	1.5	-2.4
4	☐	10.000	9.168	141210.38	0.1243	P	1.4	-8.3
5	☐	100.000	98.074	1514749.92	1.3248	A	1.5	-1.9
6	☐	200.000	201.008	3031376.21	2.7147	A	1.2	0.5

y = 0.0135 * x + 4.6396E-004
R = 0.9999
DL = 0.008482 ppb
BEC = 0.03436 ppb

Weight: <None>
Min Conc: <None>

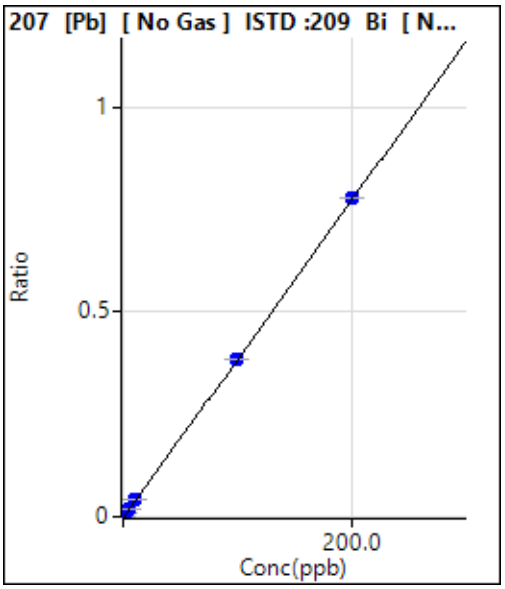
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0002	P	18.5	
2	☐	2.000	2.099	10834.90	0.0095	P	1.1	4.9
3	☐	5.000	5.270	26959.44	0.0236	P	1.2	5.4
4	☐	10.000	10.629	53953.52	0.0475	P	0.7	6.3
5	☐	100.000	98.654	501774.02	0.4388	P	1.0	-1.3
6	☐	200.000	200.634	996362.01	0.8923	P	0.6	0.3

y = 0.0044 * x + 2.1713E-004
R = 1.0000
DL = 0.02715 ppb
BEC = 0.04884 ppb

Weight: <None>
Min Conc: <None>

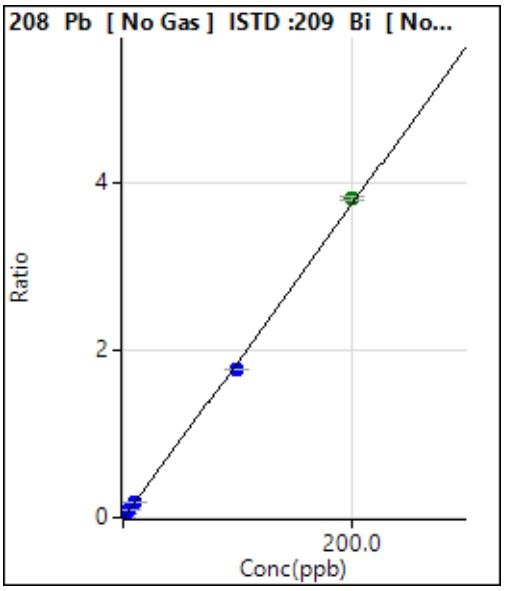


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	226.67	0.0002	P	22.9	
2	☐	2.000	2.136	9630.59	0.0085	P	1.8	6.8
3	☐	5.000	5.293	23636.07	0.0207	P	0.4	5.9
4	☐	10.000	10.729	47517.60	0.0418	P	0.5	7.3
5	☐	100.000	98.903	438820.02	0.3838	P	0.3	-1.1
6	☐	200.000	200.503	868604.83	0.7778	P	0.4	0.3

y = 0.0039 * x + 2.0232E-004
R = 1.0000
DL = 0.03577 ppb
BEC = 0.05217 ppb

Weight: <None>
Min Conc: <None>

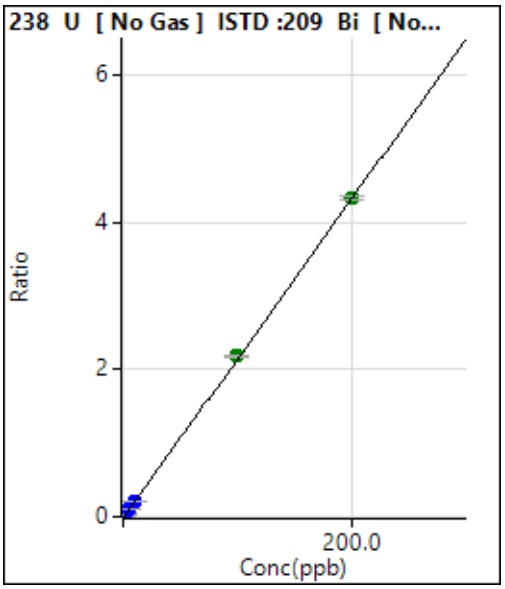
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	950.04	0.0008	P	14.5	
2	☐	2.000	1.970	42899.39	0.0378	P	2.4	-1.5
3	☐	5.000	5.017	108269.76	0.0950	P	0.8	0.3
4	☐	10.000	10.141	217155.65	0.1911	P	1.1	1.4
5	☐	100.000	93.960	2016310.66	1.7634	P	0.5	-6.0
6	☐	200.000	203.013	4253525.82	3.8091	A	1.1	1.5

y = 0.0188 * x + 8.4790E-004
R = 0.9994
DL = 0.01967 ppb
BEC = 0.0452 ppb

Weight: <None>
Min Conc: <None>

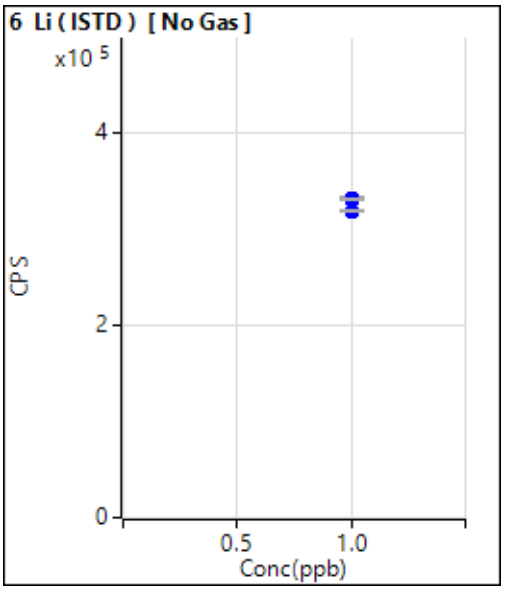


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	496.69	0.0004	P	20.5	
2	☐	2.000	1.787	44568.19	0.0393	P	1.2	-10.7
3	☐	5.000	4.598	114449.68	0.1004	P	0.4	-8.0
4	☐	10.000	9.291	229978.88	0.2024	P	0.9	-7.1
5	☐	100.000	100.848	2506607.10	2.1922	A	1.5	0.8
6	☐	200.000	199.624	4845037.22	4.3390	A	1.6	-0.2

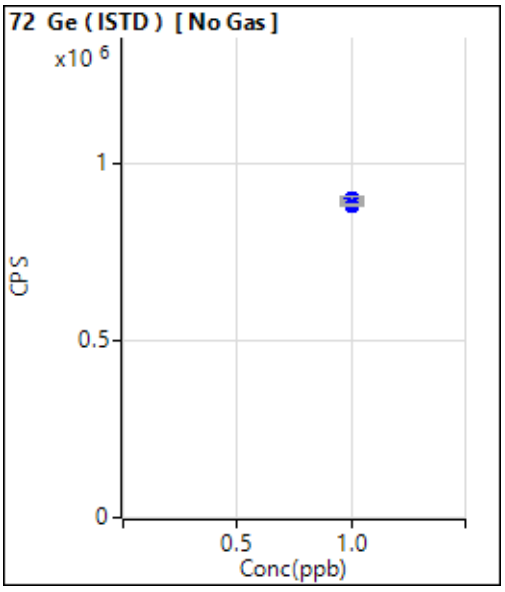
y = 0.0217 * x + 4.4333E-004
R = 1.0000
DL = 0.01255 ppb
BEC = 0.0204 ppb

Weight: <None>
Min Conc: <None>

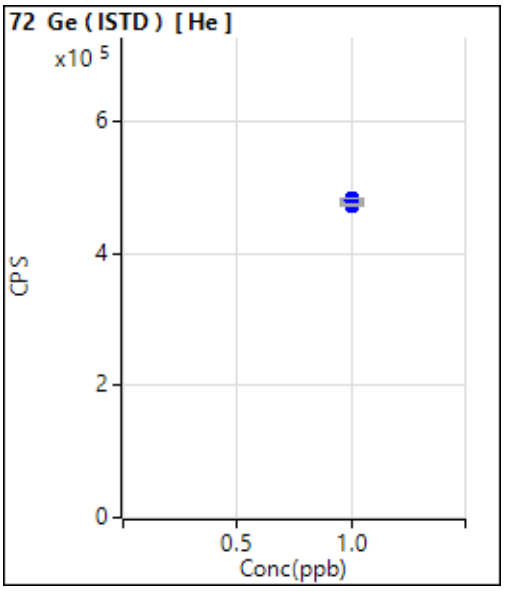
Calibration for 027_ICV.d



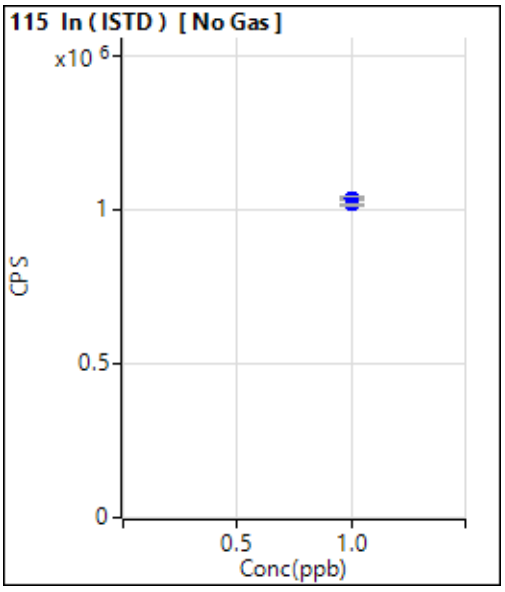
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		330976.45		P	0.6	
2	☐	1.000		329750.60		P	0.2	
3	☐	1.000		331288.14		P	1.3	
4	☐	1.000		330491.59		P	0.7	
5	☐	1.000		329494.52		P	0.5	
6	☐	1.000		318236.67		P	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		892757.67		P	0.2	
2	☐	1.000		901715.82		P	0.6	
3	☐	1.000		898065.43		P	0.4	
4	☐	1.000		892935.87		P	0.9	
5	☐	1.000		901725.82		P	0.7	
6	☐	1.000		882687.57		P	0.3	

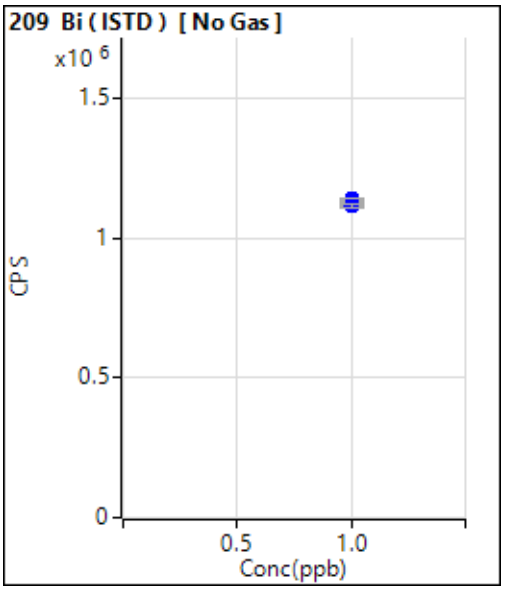


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		477077.62		P	0.7	
2	☐	1.000		474855.83		P	0.5	
3	☐	1.000		478568.95		P	0.2	
4	☐	1.000		478919.11		P	1.6	
5	☐	1.000		483102.23		P	0.6	
6	☐	1.000		472835.15		P	0.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1030947.84		P	0.3	
2	☐	1.000		1036567.49		P	0.6	
3	☐	1.000		1037106.73		P	0.6	
4	☐	1.000		1037093.86		P	0.9	
5	☐	1.000		1035801.66		P	1.1	
6	☐	1.000		1015862.66		P	0.7	

Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1120748.13		P	0.3	
2	☐	1.000		1134701.88		P	0.4	
3	☐	1.000		1140158.84		P	0.7	
4	☐	1.000		1136451.39		P	0.6	
5	☐	1.000		1143412.90		P	0.1	
6	☐	1.000		1116721.00		P	0.9	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	020CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:35:21-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	19756	0.00
Be	9	1	No Gas	42	43.99
V	51	2	He	14722	0.01
Cr	52	2	He	1917	0.17
Fe	56	2	He	49188	0.00
Se	78	2	He	1899	0.11
As	75	2	He	856	0.48
Ca	44	2	He	11555	0.01
Na	23	2	He	261740	0.00
Mg	24	2	He	1884	0.51
K	39	2	He	426855	0.00
Mn	55	2	He	1290	0.24
Co	59	2	He	317	7.21
Ni	60	2	He	167	25.54
Cu	63	2	He	717	0.49
Zn	66	2	He	647	1.92
Al	27	2	He	5148	0.04
B	11	1	No Gas	7055	0.05
Al	27	1	No Gas	54169	0.00
Si	28	1	No Gas	520915	0.00
Ag	107	1	No Gas	220	9.01
Cd	111	1	No Gas	47	70.14
Sr	88	1	No Gas	473	4.24
Mo	95	1	No Gas	97	24.71
Sn	118	1	No Gas	1483	0.37
Sb	121	1	No Gas	350	6.97
Ba	137	1	No Gas	97	37.58
Tl	205	1	No Gas	520	1.61
Tl	203	1	No Gas	277	1.51
Pb	208	1	No Gas	950	1.50
U	238	1	No Gas	497	4.08
Ca	43	2	He	67	34.37
Sb	121	2	He	237	4.49
Ti	47	2	He	10	0.00
Cu	63	1	No Gas	10231	0.04

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	330976	0.57
Ge	72	2	He	477078	0.66
Ge	72	1	No Gas	892758	0.17
In	115	1	No Gas	1030948	0.33

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	1120748	0.27

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	021CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:37:40-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	020CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	2419	0.08
V	51	2	He	24328	0.00
Cr	52	2	He	10638	0.05
Fe	56	2	He	911137	0.00
Se	78	2	He	2054	0.14
As	75	2	He	2472	0.23
Ca	44	2	He	20936	0.00
Na	23	2	He	467345	0.00
Mg	24	2	He	129498	0.00
K	39	2	He	623155	0.00
Mn	55	2	He	9353	0.05
Co	59	2	He	11025	0.01
Ni	60	2	He	2680	0.20
Cu	63	2	He	7602	0.06
Zn	66	2	He	2500	0.13
Al	27	2	He	6878	0.09
B	11	1	No Gas	12457	0.03
Al	27	1	No Gas	75434	0.00
Si	28	1	No Gas	546612	0.00
Ag	107	1	No Gas	16090	0.01
Cd	111	1	No Gas	2964	0.11
Sr	88	1	No Gas	26193	0.01
Mo	95	1	No Gas	5008	0.02
Sn	118	1	No Gas	9864	0.04
Sb	121	1	No Gas	13130	0.02
Ba	137	1	No Gas	4568	0.21
Tl	205	1	No Gas	30434	0.01
Tl	203	1	No Gas	12910	0.02
Pb	208	1	No Gas	42899	0.01
U	238	1	No Gas	44568	0.00
Ca	43	2	He	663	0.86
Sb	121	2	He	9117	0.03
Cu	63	1	No Gas	20643	0.02

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	329751	0.22	330976	99.63	70	120	
Ge	72	2	He	474856	0.51	477078	99.53	70	120	
Ge	72	1	No Gas	901716	0.57	892758	101.00	70	120	

Calibration Standard Report

In	115	1	No Gas	1036567	0.59	1030948	100.55	70	120	
Bi	209	1	No Gas	1134702	0.42	1120748	101.25	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	022CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:39:59-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	020CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	6145	0.05
V	51	2	He	37678	0.00
Cr	52	2	He	23818	0.01
Fe	56	2	He	2382086	0.00
Se	78	2	He	2430	0.17
As	75	2	He	5025	0.05
Ca	44	2	He	34133	0.00
Na	23	2	He	799574	0.00
Mg	24	2	He	328718	0.00
K	39	2	He	964039	0.00
Mn	55	2	He	21334	0.01
Co	59	2	He	28757	0.01
Ni	60	2	He	6832	0.04
Cu	63	2	He	17588	0.03
Zn	66	2	He	4794	0.06
Al	27	2	He	8089	0.06
B	11	1	No Gas	21577	0.01
Al	27	1	No Gas	91634	0.00
Si	28	1	No Gas	583139	0.00
Ag	107	1	No Gas	38991	0.01
Cd	111	1	No Gas	7015	0.08
Sr	88	1	No Gas	64673	0.00
Mo	95	1	No Gas	12806	0.01
Sn	118	1	No Gas	22379	0.01
Sb	121	1	No Gas	32708	0.00
Ba	137	1	No Gas	11288	0.01
Tl	205	1	No Gas	75673	0.00
Tl	203	1	No Gas	31644	0.00
Pb	208	1	No Gas	108270	0.00
U	238	1	No Gas	114450	0.00
Ca	43	2	He	1440	0.32
Sb	121	2	He	22182	0.01
Cu	63	1	No Gas	36509	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	331288	1.26	330976	100.09	70	120	
Ge	72	2	He	478569	0.18	477078	100.31	70	120	
Ge	72	1	No Gas	898065	0.41	892758	100.59	70	120	

Calibration Standard Report

In	115	1	No Gas	1037107	0.58	1030948	100.60	70	120	
Bi	209	1	No Gas	1140159	0.69	1120748	101.73	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	023CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:42:18-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	020CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	12414	0.02
V	51	2	He	60102	0.00
Cr	52	2	He	45041	0.00
Fe	56	2	He	4618358	0.00
Se	78	2	He	2880	0.16
As	75	2	He	9104	0.03
Ca	44	2	He	57678	0.00
Na	23	2	He	1378157	0.00
Mg	24	2	He	658248	0.00
K	39	2	He	1565955	0.00
Mn	55	2	He	43433	0.00
Co	59	2	He	57405	0.00
Ni	60	2	He	13173	0.04
Cu	63	2	He	34665	0.00
Zn	66	2	He	8876	0.02
Al	27	2	He	11045	0.01
B	11	1	No Gas	35849	0.00
Al	27	1	No Gas	121706	0.00
Si	28	1	No Gas	650656	0.00
Ag	107	1	No Gas	77272	0.00
Cd	111	1	No Gas	13901	0.02
Sr	88	1	No Gas	130998	0.00
Mo	95	1	No Gas	25358	0.01
Sn	118	1	No Gas	43155	0.00
Sb	121	1	No Gas	64586	0.00
Ba	137	1	No Gas	22981	0.01
Tl	205	1	No Gas	141210	0.00
Tl	203	1	No Gas	59485	0.00
Pb	208	1	No Gas	217156	0.00
U	238	1	No Gas	229979	0.00
Ca	43	2	He	2850	0.22
Sb	121	2	He	46088	0.00
Cu	63	1	No Gas	62487	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	330492	0.69	330976	99.85	70	120	
Ge	72	2	He	478919	1.64	477078	100.39	70	120	
Ge	72	1	No Gas	892936	0.90	892758	100.02	70	120	

Calibration Standard Report

In	115	1	No Gas	1037094	0.92	1030948	100.60	70	120	
Bi	209	1	No Gas	1136451	0.58	1120748	101.40	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	024CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:44:36-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	020CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	116932	0.00
V	51	2	He	416741	0.00
Cr	52	2	He	401031	0.00
Fe	56	2	He	41722206	0.00
Se	78	2	He	10259	0.02
As	75	2	He	76991	0.00
Ca	44	2	He	438600	0.00
Na	23	2	He	10194986	0.00
Mg	24	2	He	6366402	0.00
K	39	2	He	10467149	0.00
Mn	55	2	He	396120	0.00
Co	59	2	He	523050	0.00
Ni	60	2	He	125168	0.00
Cu	63	2	He	318662	0.00
Zn	66	2	He	78936	0.00
Al	27	2	He	59819	0.01
B	11	1	No Gas	274172	0.00
Al	27	1	No Gas	661380	0.00
Si	28	1	No Gas	2199211	0.00
Ag	107	1	No Gas	689669	0.00
Cd	111	1	No Gas	132221	0.00
Sr	88	1	No Gas	1310978	0.00
Mo	95	1	No Gas	239698	0.00
Sn	118	1	No Gas	399912	0.00
Sb	121	1	No Gas	606576	0.00
Ba	137	1	No Gas	209856	0.00
Tl	205	1	No Gas	1514750	0.00
Tl	203	1	No Gas	570596	0.00
Pb	208	1	No Gas	2016311	0.00
U	238	1	No Gas	2506607	0.00
Ca	43	2	He	25641	0.01
Sb	121	2	He	430439	0.00
Cu	63	1	No Gas	501769	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	329495	0.52	330976	99.55	70	120	
Ge	72	2	He	483102	0.57	477078	101.26	70	120	
Ge	72	1	No Gas	901726	0.75	892758	101.00	70	120	

Calibration Standard Report

In	115	1	No Gas	1035802	1.14	1030948	100.47	70	120	
Bi	209	1	No Gas	1143413	0.12	1120748	102.02	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	025CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:46:52-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	020CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	231113	0.00
V	51	2	He	805685	0.00
Cr	52	2	He	784667	0.00
Fe	56	2	He	81844064	0.00
Se	78	2	He	18291	0.01
As	75	2	He	149855	0.00
Ca	44	2	He	853671	0.00
Na	23	2	He	19831537	0.00
Mg	24	2	He	12587801	0.00
K	39	2	He	20186892	0.00
Mn	55	2	He	776116	0.00
Co	59	2	He	1032280	0.00
Ni	60	2	He	246134	0.00
Cu	63	2	He	630430	0.00
Zn	66	2	He	152962	0.00
Al	27	2	He	102321	0.00
B	11	1	No Gas	548463	0.00
Al	27	1	No Gas	1204453	0.00
Si	28	1	No Gas	3298985	0.00
Ag	107	1	No Gas	1550496	0.00
Cd	111	1	No Gas	258559	0.00
Sr	88	1	No Gas	2574710	0.00
Mo	95	1	No Gas	475150	0.00
Sn	118	1	No Gas	784472	0.00
Sb	121	1	No Gas	1310257	0.00
Ba	137	1	No Gas	416491	0.00
Tl	205	1	No Gas	3031376	0.00
Tl	203	1	No Gas	1146130	0.00
Pb	208	1	No Gas	4253526	0.00
U	238	1	No Gas	4845037	0.00
Ca	43	2	He	49309	0.00
Sb	121	2	He	848354	0.00
Cu	63	1	No Gas	967999	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	318237	0.49	330976	96.15	70	120	
Ge	72	2	He	472835	0.58	477078	99.11	70	120	
Ge	72	1	No Gas	882688	0.33	892758	98.87	70	120	

Calibration Standard Report

In	115	1	No Gas	1015863	0.66	1030948	98.54	70	120	
Bi	209	1	No Gas	1116721	0.92	1120748	99.64	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	027_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:53:02-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	91.033	0.283	461300	0.30	100	91.0	90	110	
Be	9	1	No Gas	99.004	1.183	117555	0.77	100	99.0	90	110	
V	51	2	He	97.421	0.470	410121	0.77	100	97.4	90	110	
Cr	52	2	He	98.734	0.973	398436	0.43	100	98.7	90	110	
Fe	56	2	He	9892.461	0.597	41557076	0.23	10000	98.9	90	110	
Se	78	2	He	98.823	0.678	10247	0.72	100	98.8	90	110	
As	75	2	He	99.208	0.113	76742	0.88	100	99.2	90	110	
Ca	44	2	He	9862.653	0.866	437383	0.42	10000	98.6	90	110	
Na	23	2	He	9859.993	0.177	10157911	0.60	10000	98.6	90	110	
Mg	24	2	He	9779.262	0.787	6305147	0.73	10000	97.8	90	110	
K	39	2	He	9827.497	1.135	10390852	0.65	10000	98.3	90	110	
Mn	55	2	He	98.340	0.784	392144	0.06	100	98.3	90	110	
Co	59	2	He	99.019	0.354	523875	0.50	100	99.0	90	110	
Ni	60	2	He	96.622	0.717	122006	0.85	100	96.6	90	110	
Cu	63	2	He	98.599	1.435	318620	0.76	100	98.6	90	110	
Zn	66	2	He	100.836	1.866	79579	2.11	100	100.8	90	110	
Al	27	2	He	106.840	1.862	59611	1.15	100	106.8	90	110	
B	11	1	No Gas	492.900	0.625	279947	0.95	500	98.6	90	110	
Al	27	1	No Gas	101.686	0.655	656005	0.13	100	101.7	90	110	
Si	28	1	No Gas	560.316	2.332	2173399	1.76	500	112.1	90	110	ICV Main CR1 Failed
Ag	107	1	No Gas	89.407	1.262	687611	0.93	100	89.4	90	110	ICV Main CR1 Failed
Cd	111	1	No Gas	99.107	0.106	130534	0.72	100	99.1	90	110	
Sr	88	1	No Gas	100.246	1.827	1313331	1.06	100	100.2	90	110	
Mo	95	1	No Gas	99.348	1.448	239800	0.73	100	99.3	90	110	
Sn	118	1	No Gas	98.990	0.094	395870	0.86	100	99.0	90	110	
Sb	121	1	No Gas	92.399	0.898	606388	0.66	100	92.4	90	110	
Ba	137	1	No Gas	99.297	1.184	210064	0.62	100	99.3	90	110	
Tl	205	1	No Gas	96.282	1.117	1483993	0.85	100	96.3	90	110	
Tl	203	1	No Gas	97.290	0.952	566693	0.56	100	97.3	90	110	
Pb	208	1	No Gas	93.324	0.767	1998498	0.54	100	93.3	90	110	
U	238	1	No Gas	99.103	1.247	2458085	0.80	100	99.1	90	110	
Ca	43	2	He	10002.962	2.233	25434	2.38	10000	100.0	90	110	
Sb	121	2	He	97.962	0.818	426019	0.79	100	98.0	90	110	
Ti	47	2	He	99.064	2.532	19561	3.26	100	99.1	90	110	
Cu	63	1	No Gas	100.157	0.342	500447	0.50	100	100.2	90	110	
Se	82	1	No Gas	96.624	7.390	7282	6.92	100	96.6	90	110	

QC ISTD Table

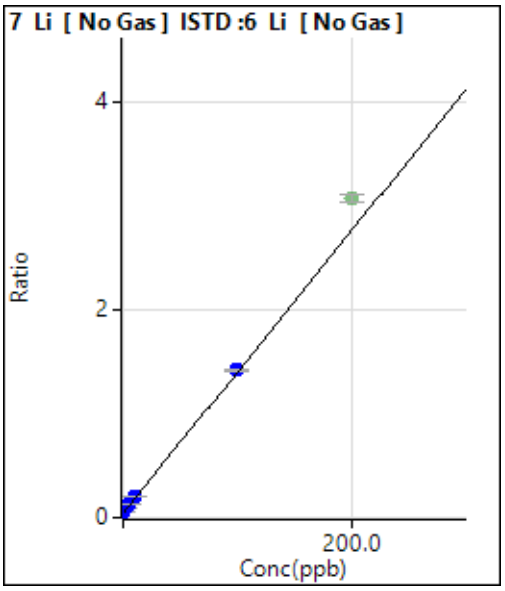
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	328417	0.56	330976	99.23	70	120	
Ge	72	2	He	485236	0.76	477078	101.71	70	120	
Ge	72	1	No Gas	900906	0.48	892758	100.91	70	120	
In	115	1	No Gas	1034017	0.76	1030948	100.30	70	120	
Bi	209	1	No Gas	1141048	0.47	1120748	101.81	70	120	

Calibration for 027_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\082823C.b\
Analysis File: 082823C.batch.bin
DA Date-Time: 8/28/2023 10:48:36 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	020CALB.d	CAL BLK	8/28/2023 5:35:21 PM
2	021CALS.d	2/10/200	8/28/2023 5:37:40 PM
3	022CALS.d	5/25/500	8/28/2023 5:39:59 PM
4	023CALS.d	10/50/100	8/28/2023 5:42:18 PM
5	024CALS.d	100/500/10K	8/28/2023 5:44:36 PM
6	025CALS.d	200/1000/20K	8/28/2023 5:46:52 PM

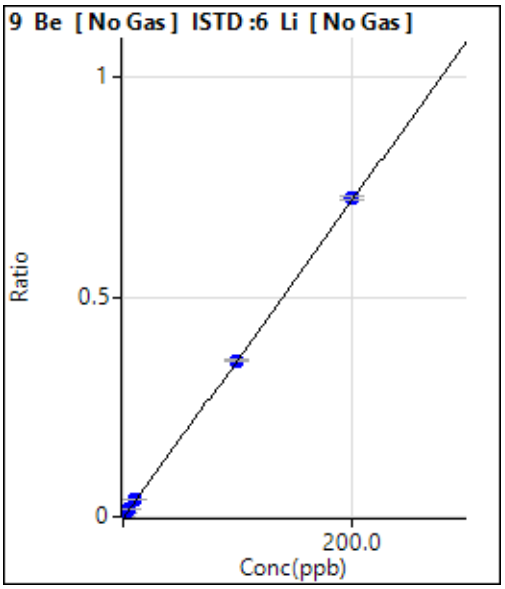
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19755.60	0.0597	P	1.2	
2	☐	2.000	2.155	29345.68	0.0890	P	0.7	7.8
3	☐	5.000	5.252	43431.88	0.1311	P	0.5	5.0
4	☐	10.000	10.735	67961.87	0.2057	P	2.1	7.4
5	☐	100.000	99.911	467265.77	1.4182	P	1.0	-0.1
6	☑	200.000		978234.75	3.0742	A	2.7	

y = 0.0136 * x + 0.0597
R = 1.0000
DL = 0.1641 ppb
BEC = 4.39 ppb

Weight: <None>
Min Conc: <None>

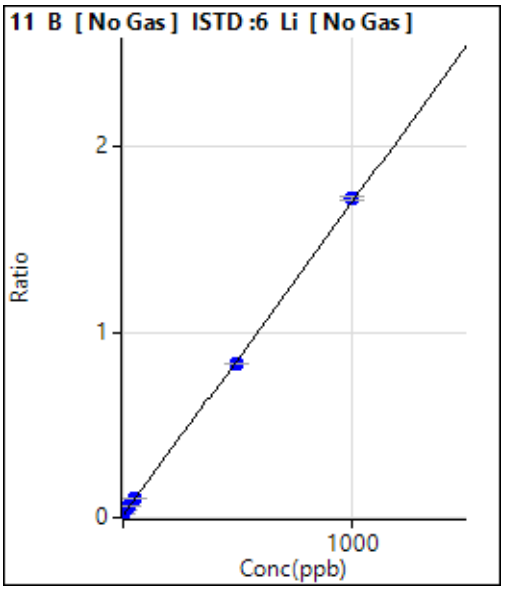


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41.67	0.0001	P	18.3	
2	☐	2.000	1.995	2418.57	0.0073	P	2.1	-0.3
3	☐	5.000	5.097	6144.72	0.0185	P	3.1	1.9
4	☐	10.000	10.358	12413.89	0.0376	P	1.8	3.6
5	☐	100.000	98.157	116931.70	0.3549	P	1.3	-1.8
6	☐	200.000	200.901	231113.10	0.7262	P	1.0	0.5

y = 0.0036 * x + 1.2589E-004
R = 0.9999
DL = 0.01916 ppb
BEC = 0.03483 ppb

Weight: <None>
Min Conc: <None>

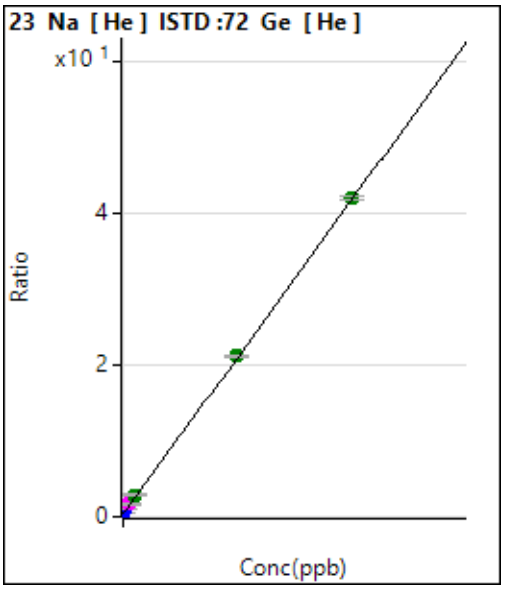
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7055.16	0.0213	P	4.0	
2	☐	10.000	9.761	12457.26	0.0378	P	3.3	-2.4
3	☐	25.000	25.984	21576.65	0.0651	P	0.9	3.9
4	☐	50.000	51.688	35849.13	0.1085	P	0.6	3.4
5	☐	500.000	480.849	274171.61	0.8321	P	0.8	-3.8
6	☐	1000.000	1009.469	548463.38	1.7234	P	0.7	0.9

y = 0.0017 * x + 0.0213
R = 0.9997
DL = 1.534 ppb
BEC = 12.64 ppb

Weight: <None>
Min Conc: <None>

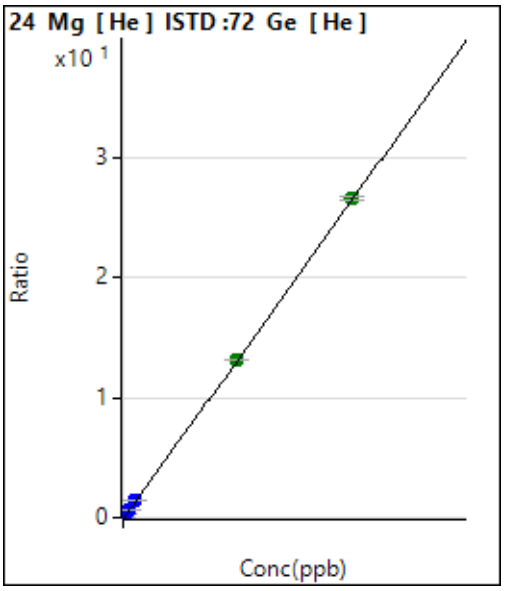


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	261740.41	0.5486	P	0.3	
2	☐	200.000	210.674	467344.97	0.9842	P	0.8	5.3
3	☐	500.000	542.713	799573.71	1.6707	M	4.9	8.5
4	☐	1000.000	1126.801	1378157.37	2.8783	A	2.1	12.7
5	☐	10000.00	9942.104	10194985.8	21.1039	A	1.1	-0.6
6	☐	20000.00	20021.43	19831536.7	41.9429	A	0.8	0.1

y = 0.0021 * x + 0.5486
R = 1.0000
DL = 2.693 ppb
BEC = 265.4 ppb

Weight: <None>
Min Conc: <None>

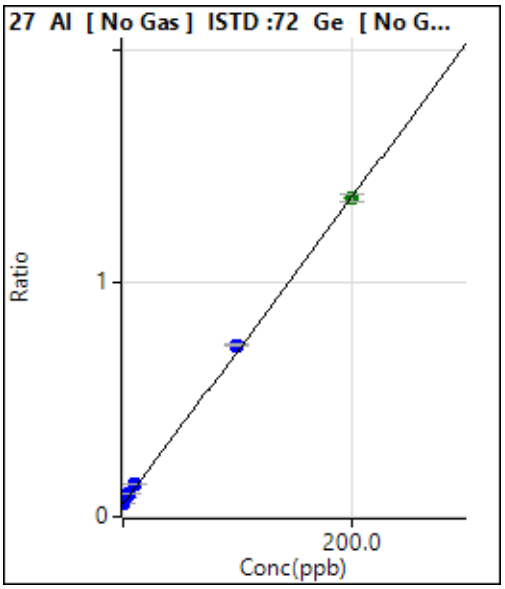
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1883.53	0.0039	P	9.0	
2	☐	200.000	202.338	129497.51	0.2727	P	1.5	1.2
3	☐	500.000	514.115	328718.16	0.6869	P	0.5	2.8
4	☐	1000.000	1031.823	658247.77	1.3746	P	0.9	3.2
5	☐	10000.00	9917.784	6366402.41	13.1783	A	0.3	-0.8
6	☐	20000.00	20039.14	12587801.4	26.6230	A	1.1	0.2

y = 0.0013 * x + 0.0039
R = 1.0000
DL = 0.8021 ppb
BEC = 2.971 ppb

Weight: <None>
Min Conc: <None>

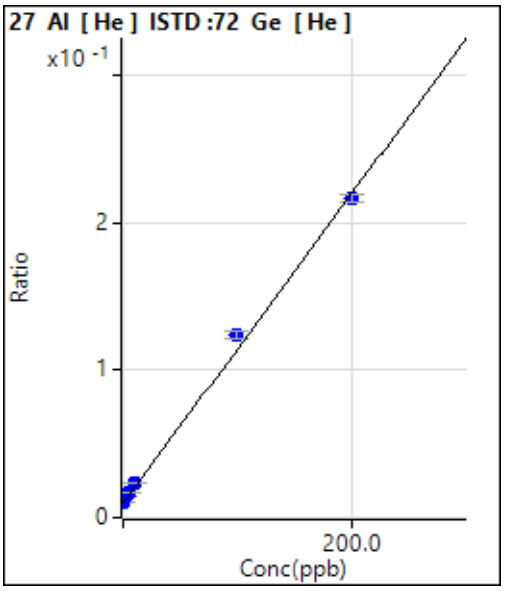


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54169.10	0.0607	P	0.6	
2	☐	2.000	3.501	75434.44	0.0837	P	1.0	75.1
3	☐	5.000	6.301	91634.47	0.1020	P	0.2	26.0
4	☐	10.000	11.520	121706.17	0.1363	P	0.7	15.2
5	☐	100.000	102.498	661379.65	0.7335	P	1.2	2.5
6	☐	200.000	198.628	1204452.87	1.3645	A	2.4	-0.7

y = 0.0066 * x + 0.0607
R = 0.9999
DL = 0.1688 ppb
BEC = 9.243 ppb

Weight: <None>
Min Conc: <None>

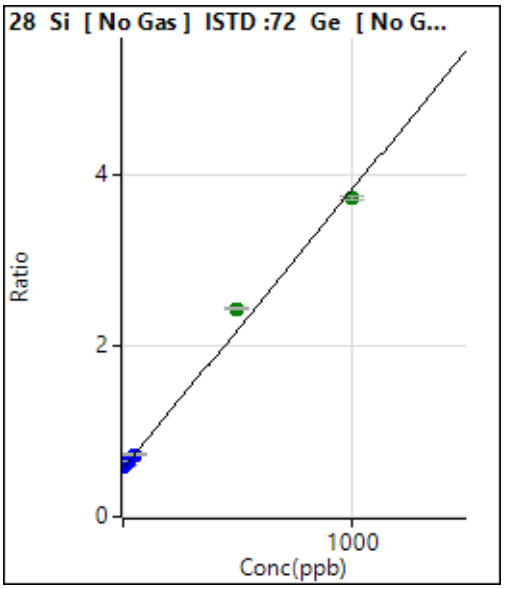
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5147.71	0.0108	P	1.8	
2	☐	2.000	3.526	6878.48	0.0145	P	6.9	76.3
3	☐	5.000	5.828	8089.17	0.0169	P	5.0	16.6
4	☐	10.000	11.703	11044.60	0.0231	P	1.8	17.0
5	☐	100.000	107.748	59818.84	0.1238	P	3.2	7.7
6	☐	200.000	196.005	102321.48	0.2164	P	2.0	-2.0

y = 0.0010 * x + 0.0108
R = 0.9990
DL = 0.5553 ppb
BEC = 10.29 ppb

Weight: <None>
Min Conc: <None>

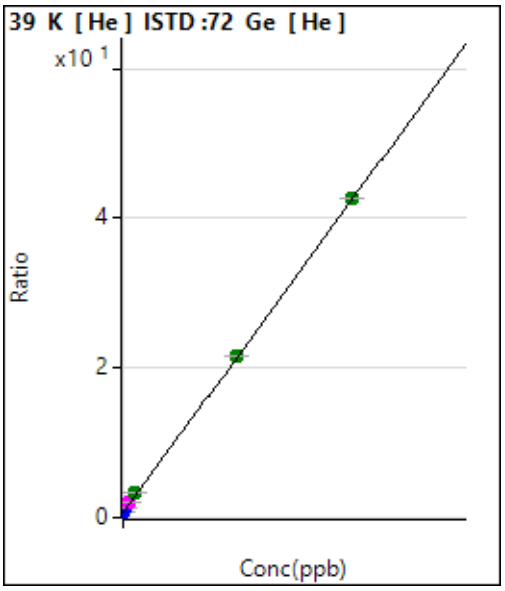


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520915.50	0.5835	P	0.2	
2	☐	10.000	6.954	546612.38	0.6062	P	0.0	-30.5
3	☐	25.000	20.171	583138.57	0.6493	P	0.4	-19.3
4	☐	50.000	44.489	650656.24	0.7287	P	1.0	-11.0
5	☐	500.000	568.406	2199211.06	2.4389	A	1.3	13.7
6	☐	1000.000	966.224	3298985.26	3.7374	A	1.2	-3.4

y = 0.0033 * x + 0.5835
R = 0.9965
DL = 1.178 ppb
BEC = 178.8 ppb

Weight: <None>
Min Conc: <None>

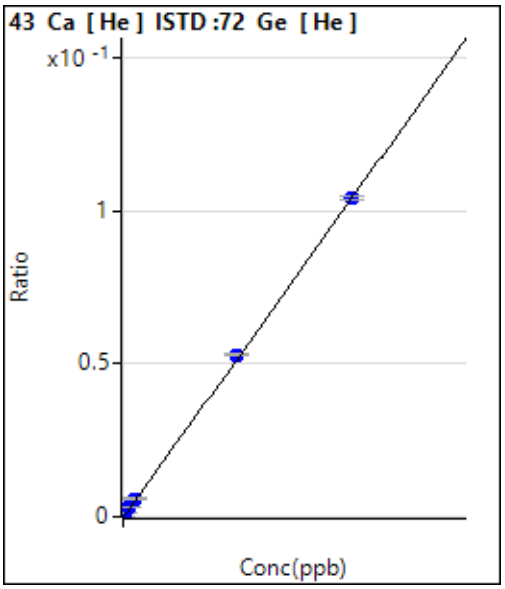
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426854.82	0.8948	P	0.8	
2	☐	200.000	199.994	623155.03	1.3123	P	1.1	0.0
3	☐	500.000	536.201	964039.07	2.0144	M	4.8	7.2
4	☐	1000.000	1137.562	1565955.44	3.2700	A	1.5	13.8
5	☐	10000.00	9948.123	10467148.5	21.6669	A	0.4	-0.5
6	☐	20000.00	20018.15	20186892.2	42.6935	A	0.4	0.1

y = 0.0021 * x + 0.8948
R = 1.0000
DL = 10.65 ppb
BEC = 428.5 ppb

Weight: <None>
Min Conc: <None>

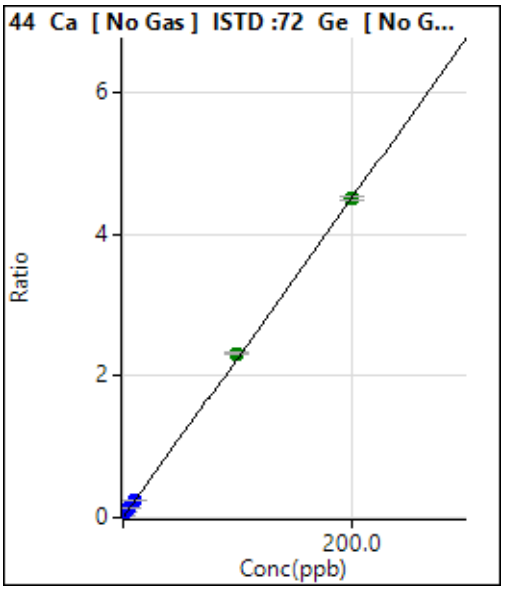


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.67	0.0001	P	22.6	
2	☐	200.000	240.602	663.36	0.0014	P	5.8	20.3
3	☐	500.000	549.065	1440.10	0.0030	P	4.4	9.8
4	☐	1000.000	1112.471	2850.35	0.0060	P	6.9	11.2
5	☐	10000.00	10128.99	25640.86	0.0531	P	1.9	1.3
6	☐	20000.00	19928.24	49308.64	0.1043	P	1.8	-0.4

y = 5.2260E-006 * x + 1.3966E-004
R = 1.0000
DL = 18.14 ppb
BEC = 26.72 ppb

Weight: <None>
Min Conc: <None>

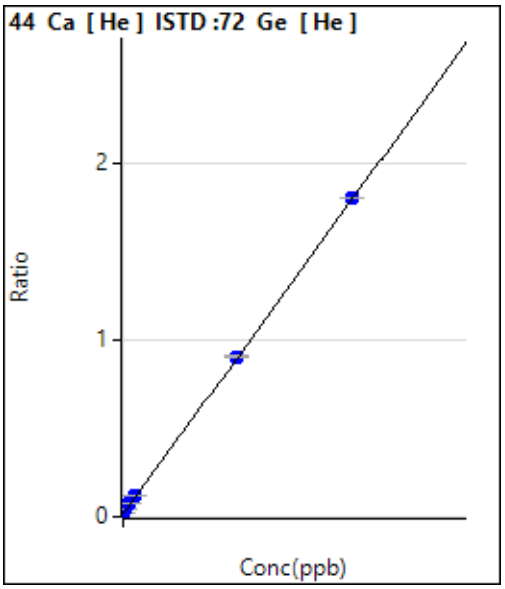
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22044.64	0.0247	P	1.0	
2	☐	2.000	2.018	63231.75	0.0701	P	2.9	0.9
3	☐	5.000	5.104	125387.77	0.1396	P	0.5	2.1
4	☐	10.000	10.294	229035.94	0.2565	P	0.5	2.9
5	☐	100.000	101.952	2092490.12	2.3205	A	0.7	2.0
6	☐	200.000	199.007	3977421.40	4.5060	A	0.8	-0.5

y = 0.0225 * x + 0.0247
R = 0.9999
DL = 0.03166 ppb
BEC = 1.097 ppb

Weight: <None>
Min Conc: <None>

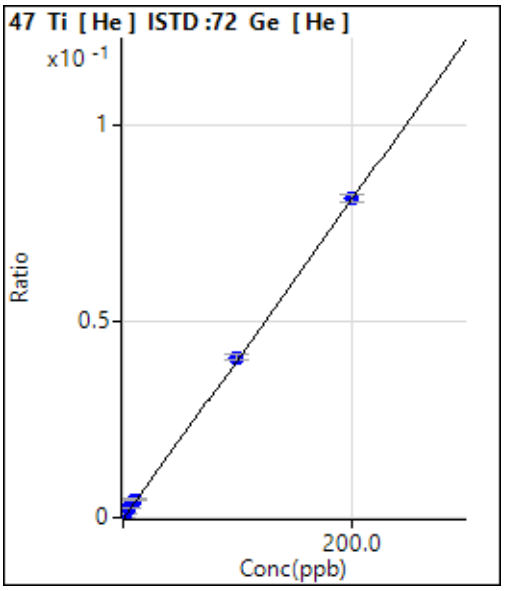


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11555.06	0.0242	P	0.4	
2	☐	200.000	223.406	20936.28	0.0441	P	0.6	11.7
3	☐	500.000	529.574	34132.63	0.0713	P	1.3	5.9
4	☐	1000.000	1082.095	57677.72	0.1205	P	2.4	8.2
5	☐	10000.00	9935.692	438599.86	0.9079	P	0.9	-0.6
6	☐	20000.00	20027.07	853670.95	1.8055	P	0.3	0.1

y = 8.8941E-005 * x + 0.0242
R = 1.0000
DL = 2.949 ppb
BEC = 272.3 ppb

Weight: <None>
Min Conc: <None>

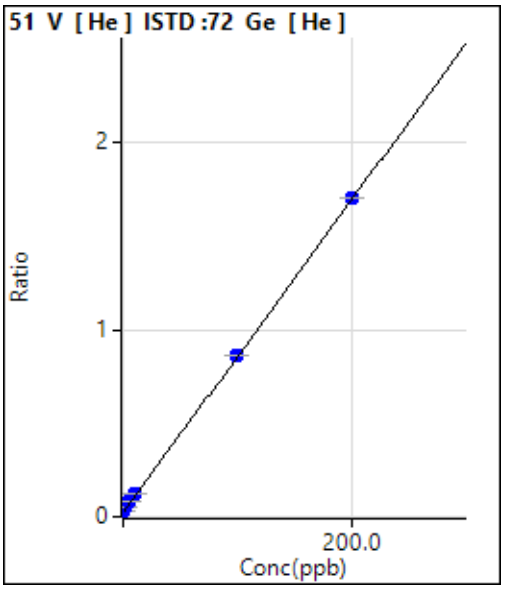
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	0.7	
2	☐	2.000	2.365	466.68	0.0010	P	7.0	18.2
3	☐	5.000	5.653	1110.07	0.0023	P	5.6	13.1
4	☐	10.000	11.110	2173.55	0.0045	P	6.6	11.1
5	☐	100.000	99.978	19654.46	0.0407	P	3.6	0.0
6	☐	200.000	199.935	38457.49	0.0813	P	2.3	0.0

y = 4.0667E-004 * x + 2.0962E-005
R = 1.0000
DL = 0.001027 ppb
BEC = 0.05154 ppb

Weight: <None>
Min Conc: <None>

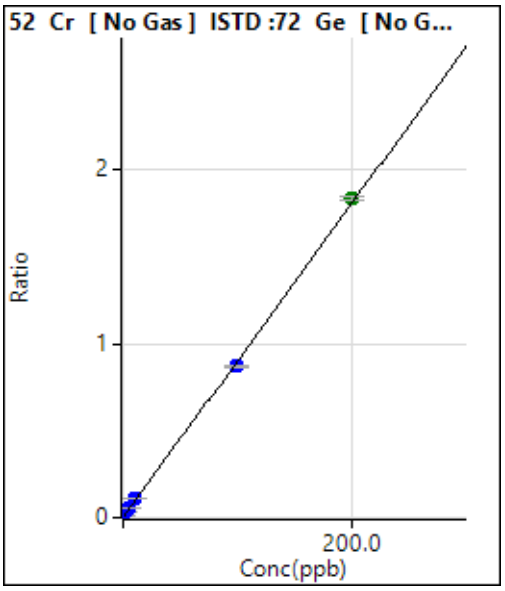


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14722.42	0.0309	P	2.1	
2	☐	2.000	2.437	24328.28	0.0512	P	0.2	21.9
3	☐	5.000	5.727	37678.30	0.0787	P	1.2	14.5
4	☐	10.000	11.324	60102.11	0.1255	P	2.4	13.2
5	☐	100.000	99.508	416740.64	0.8626	P	0.6	-0.5
6	☐	200.000	200.157	805685.32	1.7040	P	0.5	0.1

y = 0.0084 * x + 0.0309
R = 1.0000
DL = 0.2347 ppb
BEC = 3.692 ppb

Weight: <None>
Min Conc: <None>

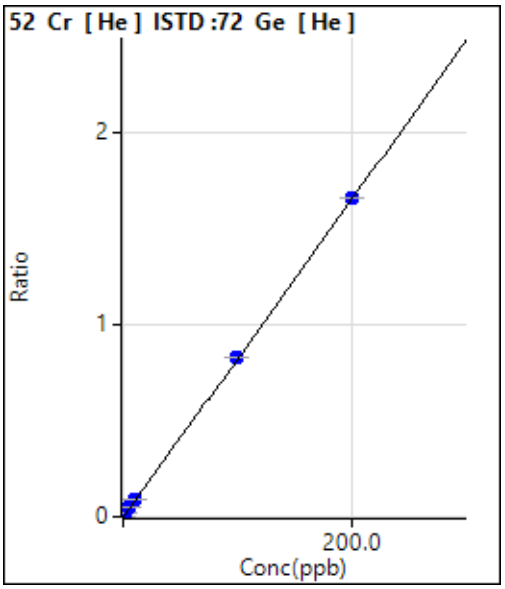
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10314.07	0.0116	P	6.3	
2	☐	2.000	2.016	26829.84	0.0298	P	0.8	0.8
3	☐	5.000	5.164	52249.98	0.0582	P	0.4	3.3
4	☐	10.000	10.454	94592.40	0.1059	P	1.2	4.5
5	☐	100.000	95.108	784673.71	0.8703	P	1.5	-4.9
6	☐	200.000	202.419	1623415.23	1.8391	A	1.6	1.2

y = 0.0090 * x + 0.0116
R = 0.9996
DL = 0.2424 ppb
BEC = 1.28 ppb

Weight: <None>
Min Conc: <None>

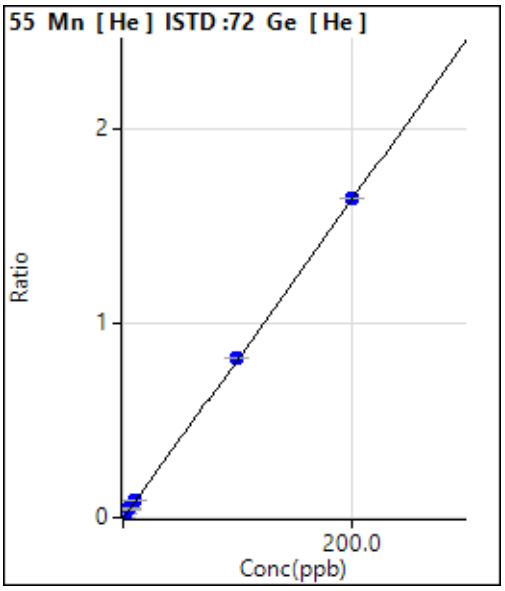


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1916.84	0.0040	P	3.8	
2	☐	2.000	2.221	10637.64	0.0224	P	4.4	11.0
3	☐	5.000	5.528	23817.58	0.0498	P	1.6	10.6
4	☐	10.000	10.880	45040.99	0.0941	P	1.4	8.8
5	☐	100.000	99.817	401031.10	0.8301	P	0.4	-0.2
6	☐	200.000	200.032	784667.44	1.6595	P	0.4	0.0

y = 0.0083 * x + 0.0040
R = 1.0000
DL = 0.05598 ppb
BEC = 0.4856 ppb

Weight: <None>
Min Conc: <None>

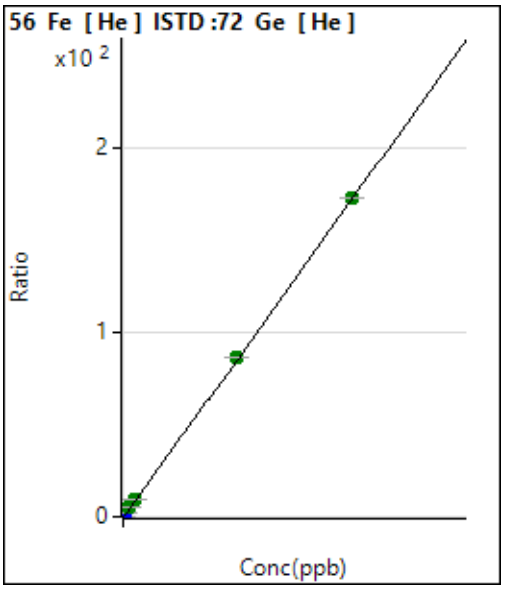
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.08	0.0027	P	2.9	
2	☐	2.000	2.075	9353.36	0.0197	P	5.0	3.7
3	☐	5.000	5.112	21333.68	0.0446	P	2.2	2.2
4	☐	10.000	10.744	43432.82	0.0907	P	1.5	7.4
5	☐	100.000	99.778	396120.37	0.8200	P	0.4	-0.2
6	☐	200.000	200.070	776115.59	1.6414	P	0.4	0.0

y = 0.0082 * x + 0.0027
R = 1.0000
DL = 0.02865 ppb
BEC = 0.3301 ppb

Weight: <None>
Min Conc: <None>

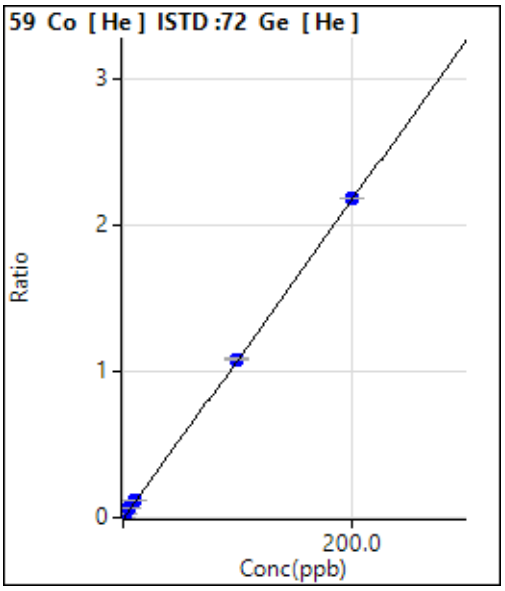


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	49187.65	0.1031	P	0.1	
2	☐	200.000	209.977	911137.07	1.9188	P	0.9	5.0
3	☐	500.000	563.692	2382086.16	4.9775	A	0.8	12.7
4	☐	1000.000	1103.338	4618358.47	9.6439	A	0.8	10.3
5	☐	10000.00	9975.617	41722206.0	86.3647	A	0.5	-0.2
6	☐	20000.00	20005.33	81844063.7	173.094	A	0.3	0.0

y = 0.0086 * x + 0.1031
R = 1.0000
DL = 0.03999 ppb
BEC = 11.92 ppb

Weight: <None>
Min Conc: <None>

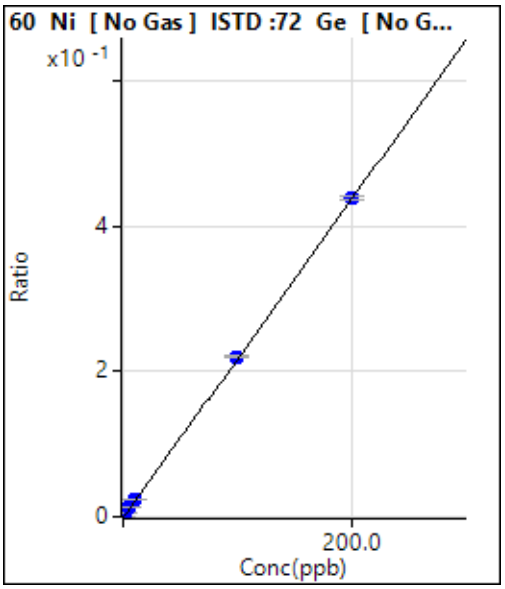
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.68	0.0007	P	23.4	
2	☐	2.000	2.070	11024.61	0.0232	P	1.3	3.5
3	☐	5.000	5.453	28757.46	0.0601	P	2.3	9.1
4	☐	10.000	10.940	57404.55	0.1199	P	1.4	9.4
5	☐	100.000	99.302	523050.18	1.0827	P	1.1	-0.7
6	☐	200.000	200.290	1032280.32	2.1832	P	0.0	0.1

y = 0.0109 * x + 6.6433E-004
R = 1.0000
DL = 0.04284 ppb
BEC = 0.06097 ppb

Weight: <None>
Min Conc: <None>

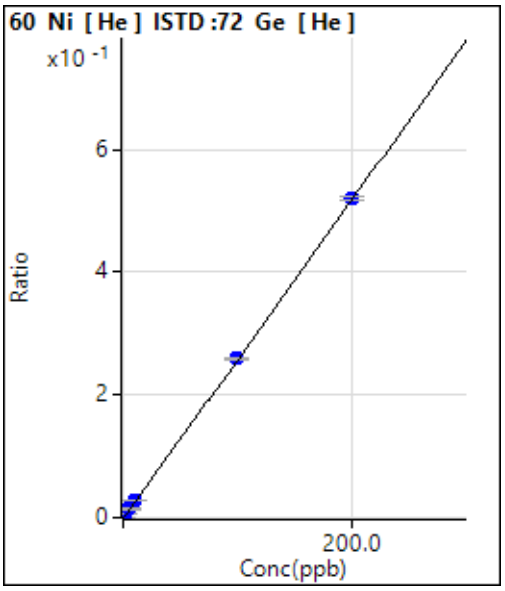


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.01	0.0005	P	17.3	
2	☐	2.000	2.284	4974.33	0.0055	P	5.2	14.2
3	☐	5.000	5.427	11144.73	0.0124	P	2.9	8.5
4	☐	10.000	11.007	22014.69	0.0247	P	0.7	10.1
5	☐	100.000	100.255	198801.60	0.2205	P	0.5	0.3
6	☐	200.000	199.809	387412.36	0.4389	P	0.9	-0.1

y = 0.0022 * x + 5.0406E-004
R = 1.0000
DL = 0.1195 ppb
BEC = 0.2297 ppb

Weight: <None>
Min Conc: <None>

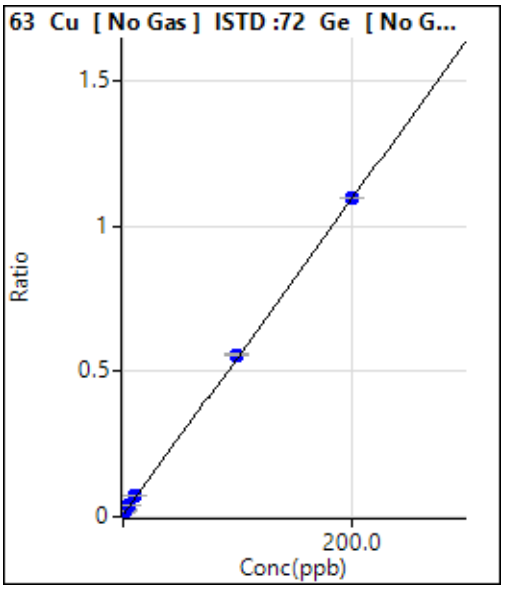
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0003	P	42.0	
2	☐	2.000	2.038	2680.32	0.0056	P	5.4	1.9
3	☐	5.000	5.359	6831.84	0.0143	P	2.9	7.2
4	☐	10.000	10.447	13173.25	0.0275	P	3.1	4.5
5	☐	100.000	99.569	125168.47	0.2591	P	0.6	-0.4
6	☐	200.000	200.184	246134.27	0.5206	P	0.7	0.1

y = 0.0026 * x + 3.4873E-004
R = 1.0000
DL = 0.1693 ppb
BEC = 0.1342 ppb

Weight: <None>
Min Conc: <None>

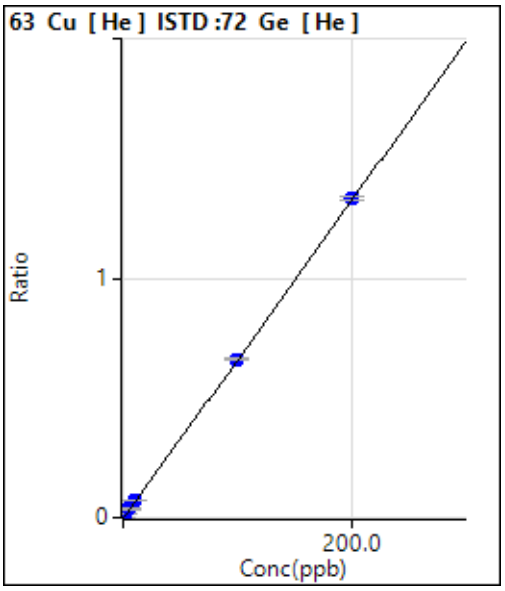


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10230.66	0.0115	P	4.7	
2	☐	2.000	2.105	20642.59	0.0229	P	2.9	5.2
3	☐	5.000	5.374	36509.47	0.0407	P	1.4	7.5
4	☐	10.000	10.774	62486.92	0.0700	P	1.6	7.7
5	☐	100.000	100.333	501769.15	0.5565	P	0.8	0.3
6	☐	200.000	199.784	967999.00	1.0967	P	0.4	-0.1

y = 0.0054 * x + 0.0115
R = 1.0000
DL = 0.2979 ppb
BEC = 2.11 ppb

Weight: <None>
Min Conc: <None>

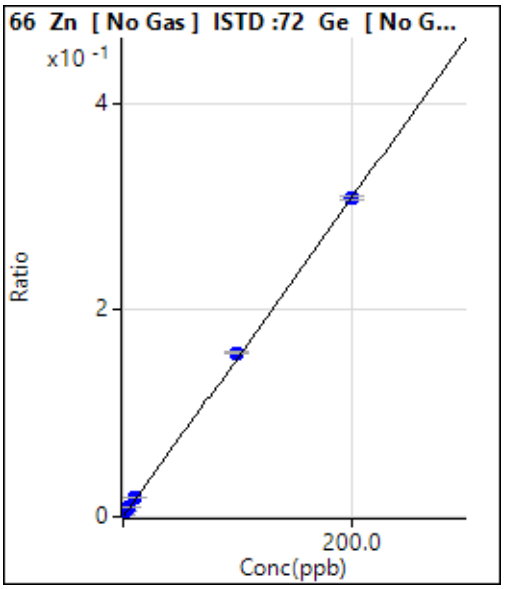
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.70	0.0015	P	3.2	
2	☐	2.000	2.183	7602.30	0.0160	P	4.6	9.2
3	☐	5.000	5.305	17588.32	0.0368	P	4.8	6.1
4	☐	10.000	10.668	34664.51	0.0724	P	1.2	6.7
5	☐	100.000	99.047	318662.13	0.6596	P	1.3	-1.0
6	☐	200.000	200.434	630430.32	1.3333	P	0.9	0.2

y = 0.0066 * x + 0.0015
R = 1.0000
DL = 0.02199 ppb
BEC = 0.2261 ppb

Weight: <None>
Min Conc: <None>

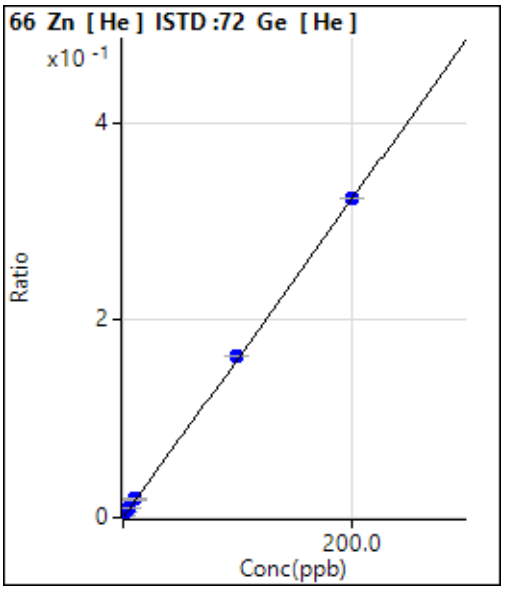


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1133.40	0.0013	P	3.0	
2	☐	2.000	2.576	4730.92	0.0052	P	3.5	28.8
3	☐	5.000	5.703	9046.47	0.0101	P	0.3	14.1
4	☐	10.000	11.103	16436.86	0.0184	P	2.5	11.0
5	☐	100.000	101.846	142912.77	0.1585	P	0.5	1.8
6	☐	200.000	198.999	272263.31	0.3085	P	1.3	-0.5

y = 0.0015 * x + 0.0013
R = 0.9999
DL = 0.07412 ppb
BEC = 0.8225 ppb

Weight: <None>
Min Conc: <None>

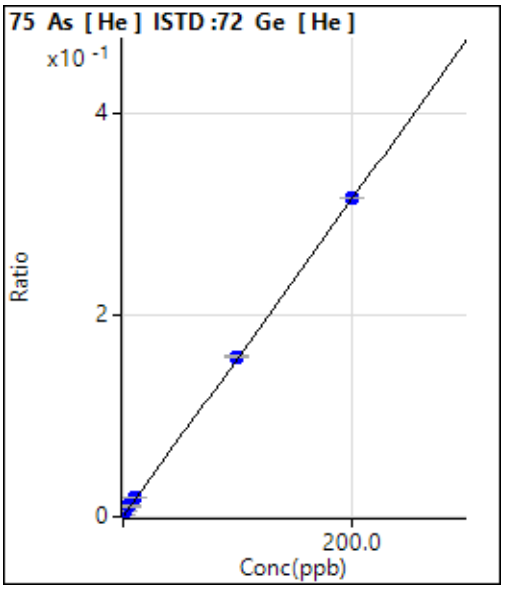
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	646.70	0.0014	P	11.7	
2	☐	2.000	2.424	2500.28	0.0053	P	2.9	21.2
3	☐	5.000	5.371	4794.27	0.0100	P	3.0	7.4
4	☐	10.000	10.654	8876.39	0.0185	P	3.2	6.5
5	☐	100.000	100.463	78935.82	0.1634	P	0.7	0.5
6	☐	200.000	199.722	152961.78	0.3235	P	0.3	-0.1

y = 0.0016 * x + 0.0014
R = 1.0000
DL = 0.2957 ppb
BEC = 0.84 ppb

Weight: <None>
Min Conc: <None>

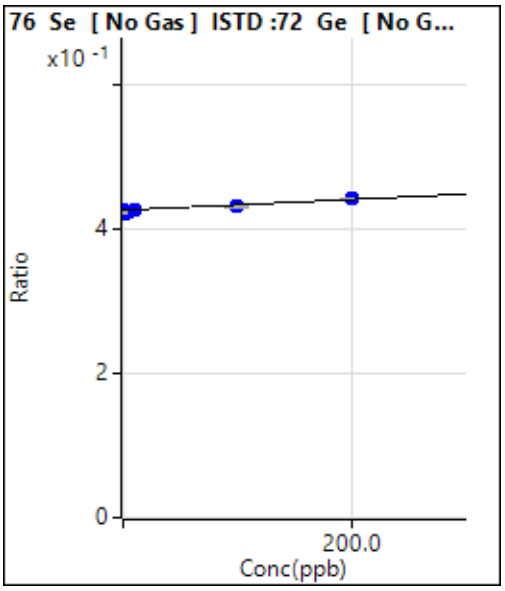


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	855.59	0.0018	P	4.5	
2	☐	2.000	2.166	2472.46	0.0052	P	6.2	8.3
3	☐	5.000	5.525	5025.41	0.0105	P	2.3	10.5
4	☐	10.000	10.922	9104.22	0.0190	P	1.2	9.2
5	☐	100.000	99.981	76991.21	0.1594	P	0.8	0.0
6	☐	200.000	199.948	149854.98	0.3169	P	0.1	0.0

y = 0.0016 * x + 0.0018
R = 1.0000
DL = 0.1522 ppb
BEC = 1.138 ppb

Weight: <None>
Min Conc: <None>

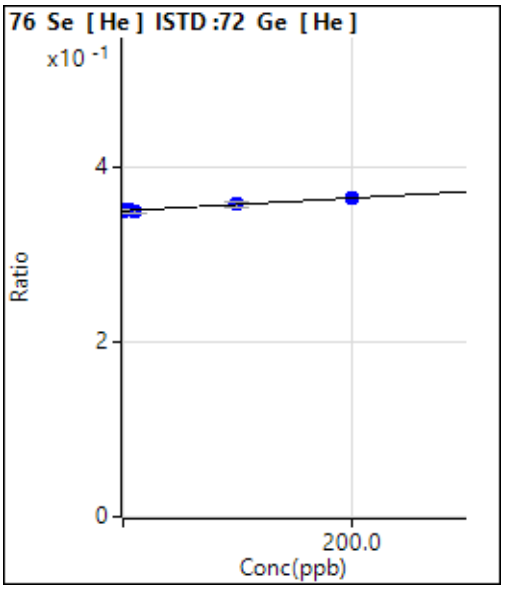
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	381195.84	0.4270	P	0.8	
2	☐	2.000	-63.274	380755.72	0.4223	P	1.2	-3263.
3	☐	5.000	-44.262	380499.50	0.4237	P	0.4	-985.2
4	☐	10.000	4.293	381551.80	0.4273	P	0.5	-57.1
5	☐	100.000	64.909	389378.16	0.4318	P	0.7	-35.1
6	☐	200.000	219.715	391350.55	0.4434	P	0.4	9.9

y = 7.4506E-005 * x + 0.4270
R = 0.9641
DL = 134.4 ppb
BEC = 5731 ppb

Weight: <None>
Min Conc: <None>

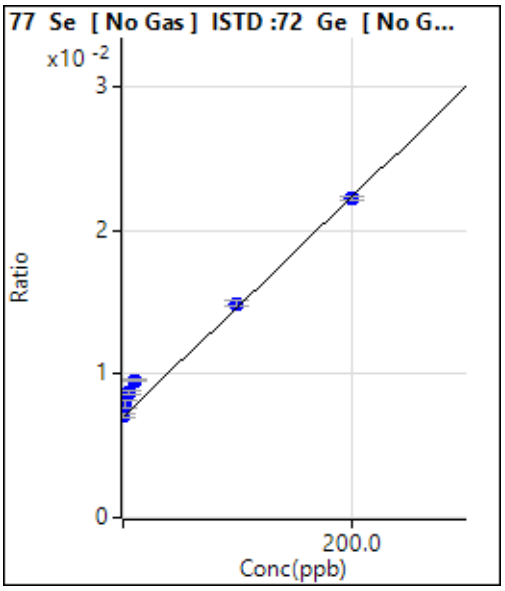


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	167113.54	0.3503	P	0.5	
2	☐	2.000	8.582	166640.88	0.3509	P	1.1	329.1
3	☐	5.000	7.639	167909.61	0.3509	P	0.6	52.8
4	☐	10.000	-2.645	167646.09	0.3501	P	1.2	-126.4
5	☐	100.000	100.977	172820.47	0.3577	P	1.6	1.0
6	☐	200.000	200.012	172603.52	0.3650	P	0.4	0.0

y = 7.3705E-005 * x + 0.3503
R = 0.9969
DL = 67.56 ppb
BEC = 4753 ppb

Weight: <None>
Min Conc: <None>

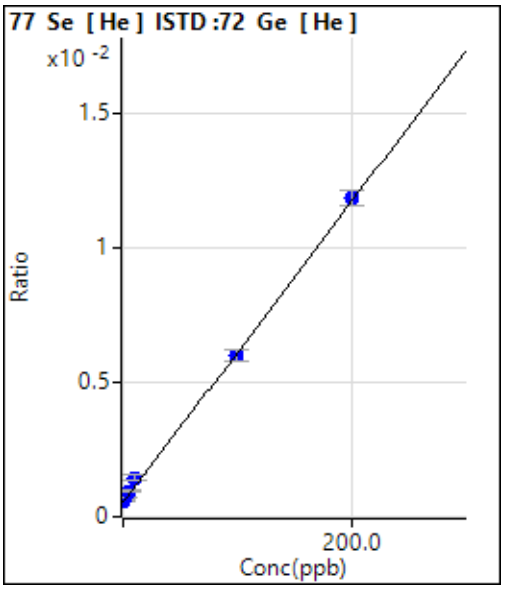
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6378.29	0.0071	P	4.1	
2	☐	2.000	9.837	7122.01	0.0079	P	7.3	391.9
3	☐	5.000	20.146	7799.10	0.0087	P	2.8	302.9
4	☐	10.000	31.868	8556.21	0.0096	P	1.8	218.7
5	☐	100.000	101.943	13470.26	0.0149	P	2.2	1.9
6	☐	200.000	197.478	19634.68	0.0222	P	1.2	-1.3

y = 7.6466E-005 * x + 0.0071
R = 0.9950
DL = 11.52 ppb
BEC = 93.43 ppb

Weight: <None>
Min Conc: <None>

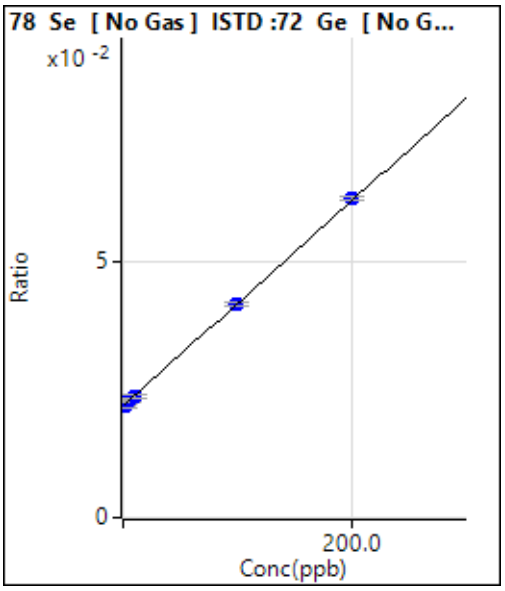


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0006	P	8.7	
2	☐	2.000	1.809	330.01	0.0007	P	2.5	-9.5
3	☐	5.000	6.326	453.35	0.0009	P	8.8	26.5
4	☐	10.000	15.399	696.70	0.0015	P	13.1	54.0
5	☐	100.000	96.725	2897.04	0.0060	P	7.8	-3.3
6	☐	200.000	201.337	5597.92	0.0118	P	5.0	0.7

y = 5.5860E-005 * x + 5.9386E-004
R = 0.9994
DL = 2.781 ppb
BEC = 10.63 ppb

Weight: <None>
Min Conc: <None>

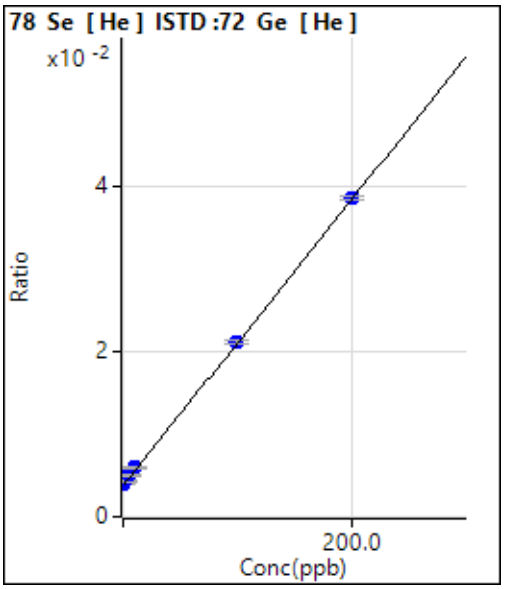
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19781.52	0.0222	P	3.0	
2	☐	2.000	-2.118	19597.86	0.0217	P	3.1	-205.9
3	☐	5.000	3.293	20489.22	0.0228	P	2.5	-34.1
4	☐	10.000	7.832	21180.34	0.0237	P	2.2	-21.7
5	☐	100.000	97.831	37602.75	0.0417	P	2.1	-2.2
6	☐	200.000	201.277	55056.12	0.0624	P	1.6	0.6

y = 1.9981E-004 * x + 0.0222
R = 0.9998
DL = 10.09 ppb
BEC = 110.9 ppb

Weight: <None>
Min Conc: <None>

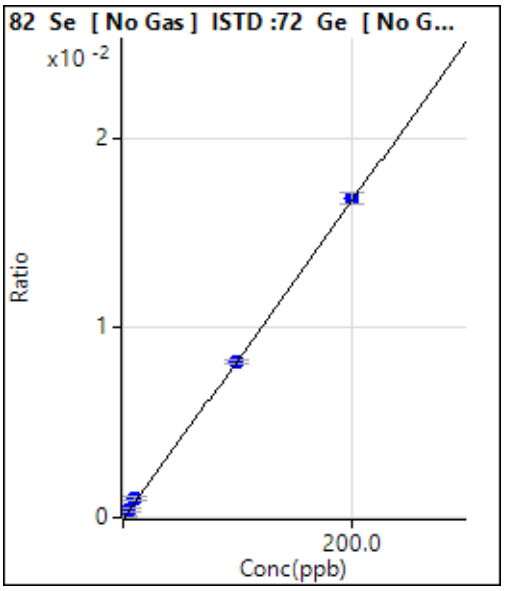


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1898.81	0.0040	P	1.6	
2	☐	2.000	1.997	2054.17	0.0043	P	3.2	-0.1
3	☐	5.000	6.332	2430.23	0.0051	P	3.9	26.6
4	☐	10.000	11.731	2880.32	0.0060	P	4.1	17.3
5	☐	100.000	99.521	10259.25	0.0212	P	2.5	-0.5
6	☐	200.000	200.120	18291.05	0.0387	P	0.7	0.1

y = 1.7341E-004 * x + 0.0040
R = 1.0000
DL = 1.091 ppb
BEC = 22.95 ppb

Weight: <None>
Min Conc: <None>

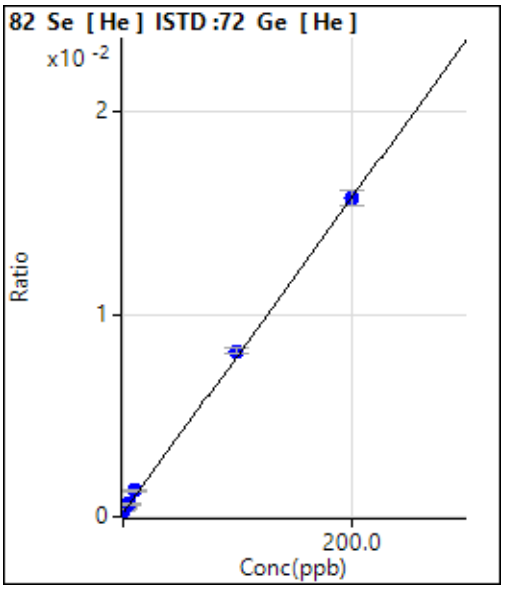
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-16.30	0.0000	P	-197.	
2	☐	2.000	0.568	26.55	0.0000	P	38.0	-71.6
3	☐	5.000	4.993	359.97	0.0004	P	50.0	-0.1
4	☐	10.000	11.978	880.22	0.0010	P	14.8	19.8
5	☐	100.000	98.089	7402.46	0.0082	P	3.3	-1.9
6	☐	200.000	200.871	14852.56	0.0168	P	4.1	0.4

y = 8.3866E-005 * x - 1.8234E-005
R = 0.9998
DL = 1.286 ppb
BEC = -0.2174 ppb

Weight: <None>
Min Conc: <None>

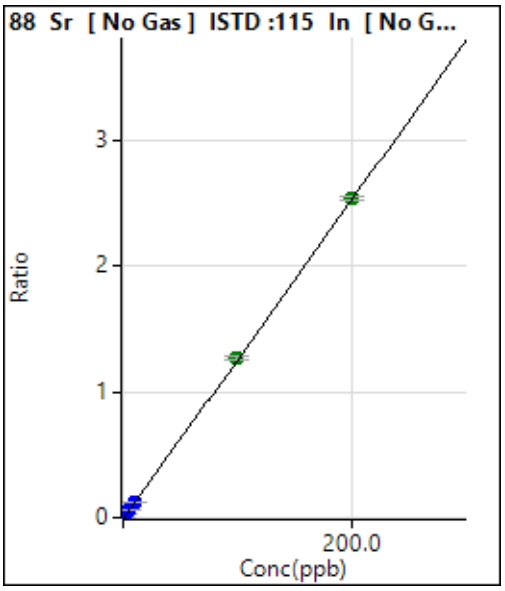


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0003	P	23.7	
2	☐	2.000	1.997	203.34	0.0004	P	21.9	-0.1
3	☐	5.000	4.647	303.34	0.0006	P	20.3	-7.1
4	☐	10.000	12.968	613.36	0.0013	P	4.5	29.7
5	☐	100.000	101.789	3953.98	0.0082	P	4.1	1.8
6	☐	200.000	198.966	7442.19	0.0157	P	4.4	-0.5

y = 7.7723E-005 * x + 2.7278E-004
R = 0.9998
DL = 2.496 ppb
BEC = 3.51 ppb

Weight: <None>
Min Conc: <None>

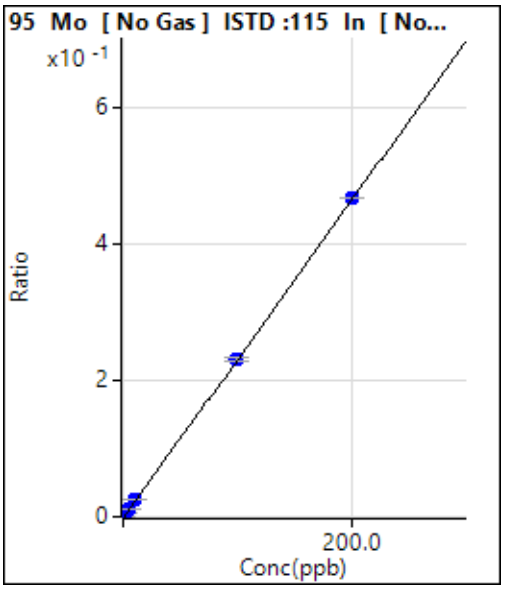
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	20.4	
2	☐	2.000	1.959	26192.75	0.0253	P	1.7	-2.1
3	☐	5.000	4.887	64672.98	0.0624	P	0.2	-2.3
4	☐	10.000	9.936	130997.57	0.1263	P	0.5	-0.6
5	☐	100.000	99.898	1310977.92	1.2658	A	1.7	-0.1
6	☐	200.000	200.058	2574710.01	2.5345	A	0.9	0.0

y = 0.0127 * x + 4.5934E-004
R = 1.0000
DL = 0.0222 ppb
BEC = 0.03626 ppb

Weight: <None>
Min Conc: <None>

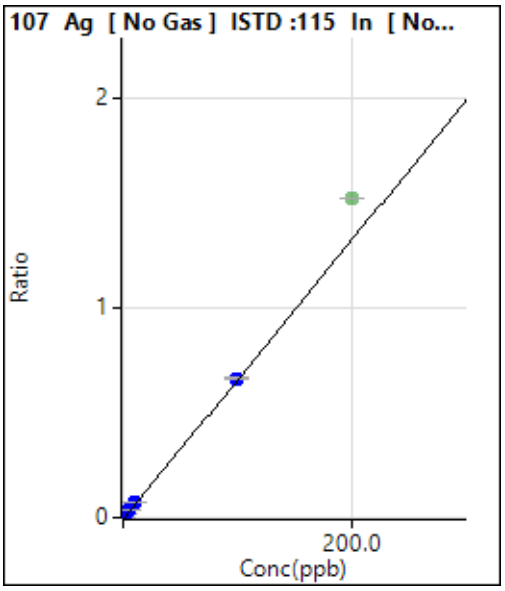


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	24.1	
2	☐	2.000	2.030	5007.69	0.0048	P	1.5	1.5
3	☐	5.000	5.252	12806.34	0.0123	P	1.8	5.0
4	☐	10.000	10.439	25357.79	0.0245	P	3.0	4.4
5	☐	100.000	99.141	239698.15	0.2314	P	2.1	-0.9
6	☐	200.000	200.401	475149.93	0.4677	P	0.5	0.2

y = 0.0023 * x + 9.3799E-005
R = 1.0000
DL = 0.02903 ppb
BEC = 0.0402 ppb

Weight: <None>
Min Conc: <None>

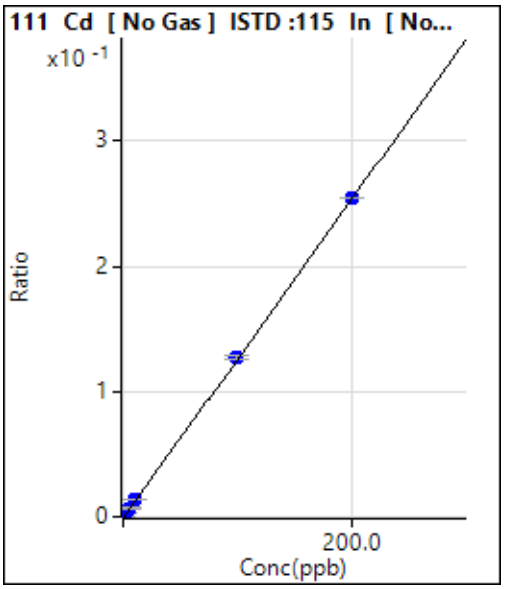
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	220.01	0.0002	P	20.2	
2	☐	2.000	2.296	16090.00	0.0155	P	1.1	14.8
3	☐	5.000	5.608	38991.26	0.0376	P	3.2	12.2
4	☐	10.000	11.143	77272.28	0.0745	P	2.3	11.4
5	☐	100.000	99.849	689668.53	0.6659	P	1.6	-0.2
6	☑	200.000		1550495.86	1.5263	A	0.2	

y = 0.0067 * x + 2.1350E-004
R = 0.9999
DL = 0.01936 ppb
BEC = 0.03202 ppb

Weight: <None>
Min Conc: <None>

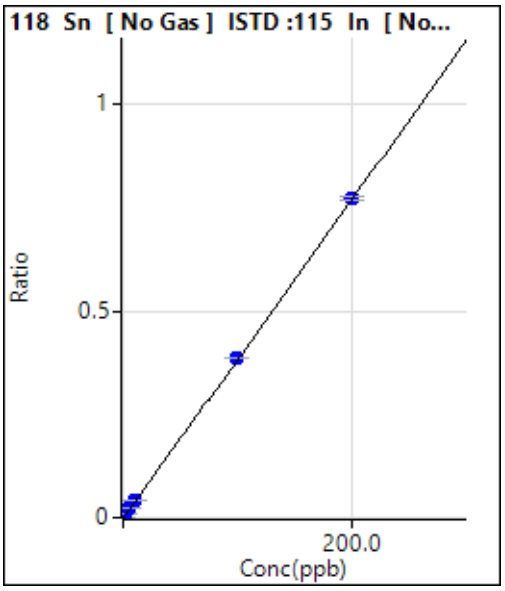


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	32.9	
2	☐	2.000	2.210	2963.72	0.0029	P	3.0	10.5
3	☐	5.000	5.276	7015.34	0.0068	P	4.9	5.5
4	☐	10.000	10.493	13900.89	0.0134	P	3.2	4.9
5	☐	100.000	100.230	132221.05	0.1277	P	2.2	0.2
6	☐	200.000	199.852	258558.99	0.2545	P	0.5	-0.1

y = 0.0013 * x + 4.5286E-005
R = 1.0000
DL = 0.03515 ppb
BEC = 0.03557 ppb

Weight: <None>
Min Conc: <None>

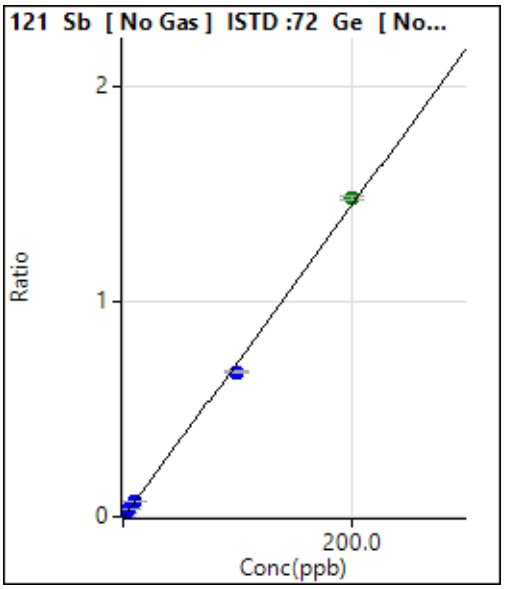
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1483.45	0.0014	P	5.6	
2	☐	2.000	2.097	9863.90	0.0095	P	4.5	4.8
3	☐	5.000	5.227	22379.43	0.0216	P	1.2	4.5
4	☐	10.000	10.427	43154.58	0.0416	P	2.0	4.3
5	☐	100.000	99.837	399911.83	0.3861	P	0.8	-0.2
6	☐	200.000	200.054	784472.41	0.7722	P	0.8	0.0

y = 0.0039 * x + 0.0014
R = 1.0000
DL = 0.06228 ppb
BEC = 0.3735 ppb

Weight: <None>
Min Conc: <None>

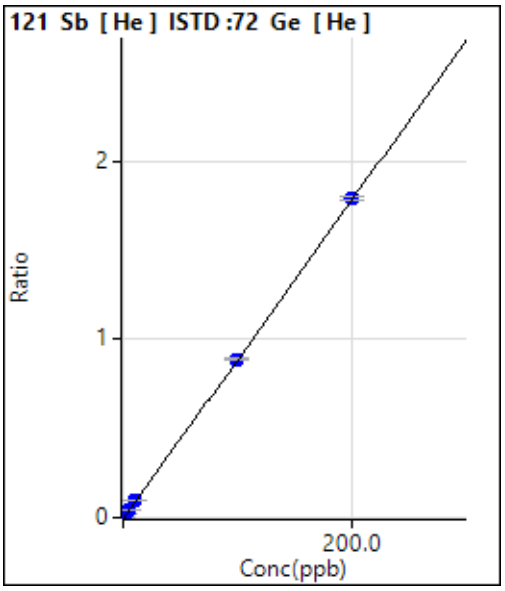


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	350.02	0.0004	P	24.3	
2	☐	2.000	1.946	13130.09	0.0146	P	3.6	-2.7
3	☐	5.000	4.949	32707.82	0.0364	P	1.1	-1.0
4	☐	10.000	9.882	64585.64	0.0723	P	1.1	-1.2
5	☐	100.000	92.347	606575.53	0.6727	P	1.2	-7.7
6	☐	200.000	203.834	1310256.62	1.4844	A	1.2	1.9

y = 0.0073 * x + 3.9200E-004
R = 0.9990
DL = 0.03932 ppb
BEC = 0.05384 ppb

Weight: <None>
Min Conc: <None>

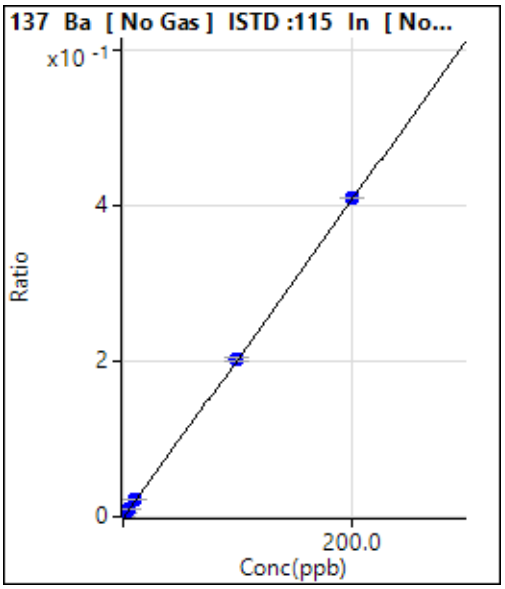
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.68	0.0005	P	10.3	
2	☐	2.000	2.088	9116.65	0.0192	P	2.4	4.4
3	☐	5.000	5.119	22182.42	0.0464	P	2.6	2.4
4	☐	10.000	10.688	46087.86	0.0962	P	0.5	6.9
5	☐	100.000	99.418	430438.54	0.8910	P	0.9	-0.6
6	☐	200.000	200.253	848354.23	1.7942	P	0.8	0.1

y = 0.0090 * x + 4.9599E-004
R = 1.0000
DL = 0.01718 ppb
BEC = 0.05537 ppb

Weight: <None>
Min Conc: <None>

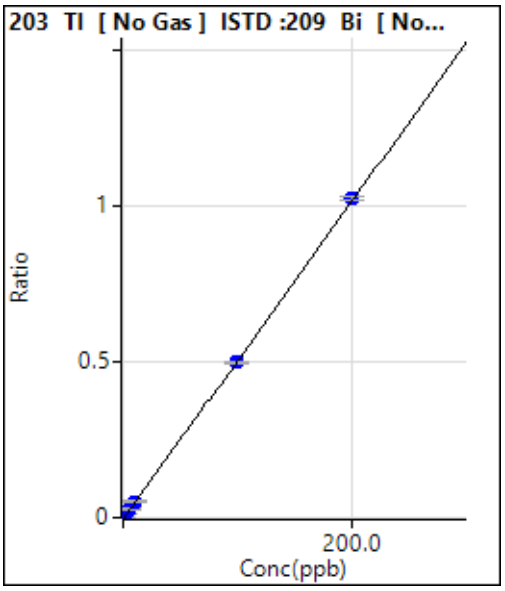


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	36.1	
2	☐	2.000	2.109	4567.57	0.0044	P	9.8	5.5
3	☐	5.000	5.276	11288.41	0.0109	P	0.8	5.5
4	☐	10.000	10.791	22980.75	0.0222	P	3.0	7.9
5	☐	100.000	99.037	209856.39	0.2026	P	2.1	-1.0
6	☐	200.000	200.434	416491.11	0.4100	P	0.6	0.2

y = 0.0020 * x + 9.3706E-005
R = 1.0000
DL = 0.04968 ppb
BEC = 0.04582 ppb

Weight: <None>
Min Conc: <None>

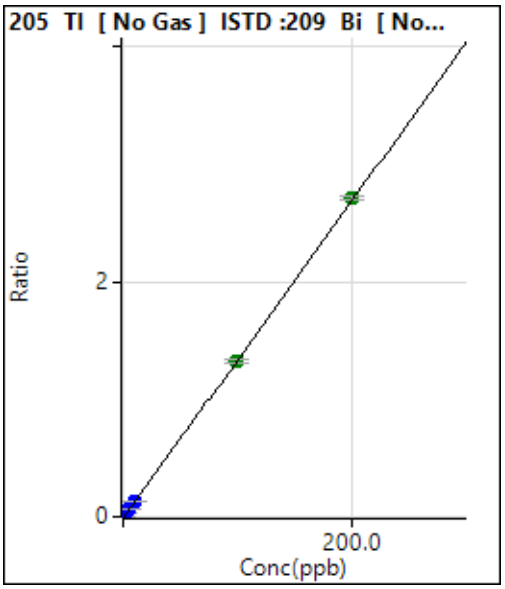
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.68	0.0002	P	4.1	
2	☐	2.000	2.182	12910.26	0.0114	P	3.0	9.1
3	☐	5.000	5.391	31643.68	0.0278	P	0.6	7.8
4	☐	10.000	10.211	59484.83	0.0523	P	1.1	2.1
5	☐	100.000	97.756	570596.27	0.4990	P	1.3	-2.2
6	☐	200.000	201.100	1146129.62	1.0263	P	1.0	0.5

y = 0.0051 * x + 2.4686E-004
R = 0.9999
DL = 0.005927 ppb
BEC = 0.04838 ppb

Weight: <None>
Min Conc: <None>

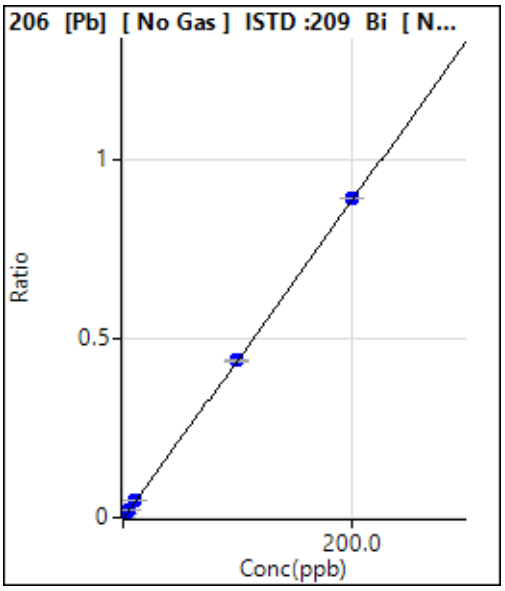


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520.02	0.0005	P	8.2	
2	☐	2.000	1.952	30434.08	0.0268	P	2.3	-2.4
3	☐	5.000	4.881	75672.99	0.0664	P	1.5	-2.4
4	☐	10.000	9.168	141210.38	0.1243	P	1.4	-8.3
5	☐	100.000	98.074	1514749.92	1.3248	A	1.5	-1.9
6	☐	200.000	201.008	3031376.21	2.7147	A	1.2	0.5

y = 0.0135 * x + 4.6396E-004
R = 0.9999
DL = 0.008482 ppb
BEC = 0.03436 ppb

Weight: <None>
Min Conc: <None>

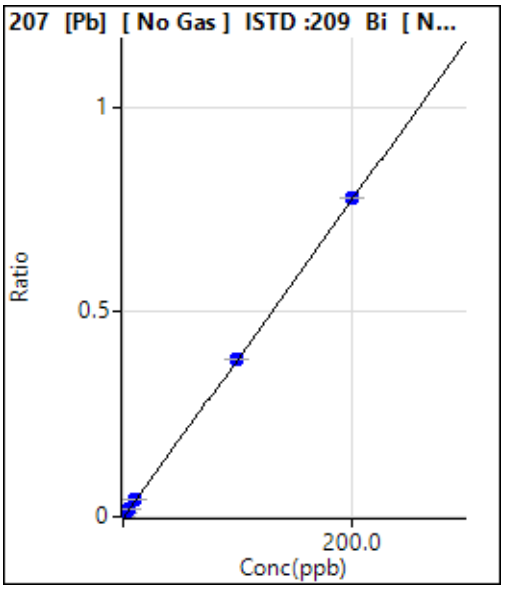
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0002	P	18.5	
2	☐	2.000	2.099	10834.90	0.0095	P	1.1	4.9
3	☐	5.000	5.270	26959.44	0.0236	P	1.2	5.4
4	☐	10.000	10.629	53953.52	0.0475	P	0.7	6.3
5	☐	100.000	98.654	501774.02	0.4388	P	1.0	-1.3
6	☐	200.000	200.634	996362.01	0.8923	P	0.6	0.3

y = 0.0044 * x + 2.1713E-004
R = 1.0000
DL = 0.02715 ppb
BEC = 0.04884 ppb

Weight: <None>
Min Conc: <None>

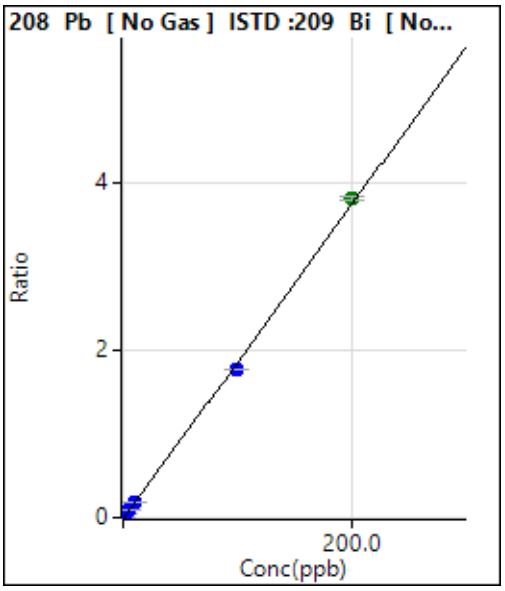


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	226.67	0.0002	P	22.9	
2	☐	2.000	2.136	9630.59	0.0085	P	1.8	6.8
3	☐	5.000	5.293	23636.07	0.0207	P	0.4	5.9
4	☐	10.000	10.729	47517.60	0.0418	P	0.5	7.3
5	☐	100.000	98.903	438820.02	0.3838	P	0.3	-1.1
6	☐	200.000	200.503	868604.83	0.7778	P	0.4	0.3

y = 0.0039 * x + 2.0232E-004
R = 1.0000
DL = 0.03577 ppb
BEC = 0.05217 ppb

Weight: <None>
Min Conc: <None>

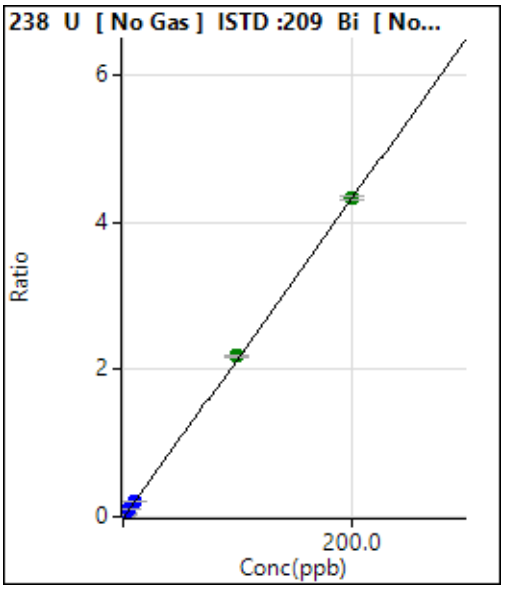
Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	950.04	0.0008	P	14.5	
2	☐	2.000	1.970	42899.39	0.0378	P	2.4	-1.5
3	☐	5.000	5.017	108269.76	0.0950	P	0.8	0.3
4	☐	10.000	10.141	217155.65	0.1911	P	1.1	1.4
5	☐	100.000	93.960	2016310.66	1.7634	P	0.5	-6.0
6	☐	200.000	203.013	4253525.82	3.8091	A	1.1	1.5

y = 0.0188 * x + 8.4790E-004
R = 0.9994
DL = 0.01967 ppb
BEC = 0.0452 ppb

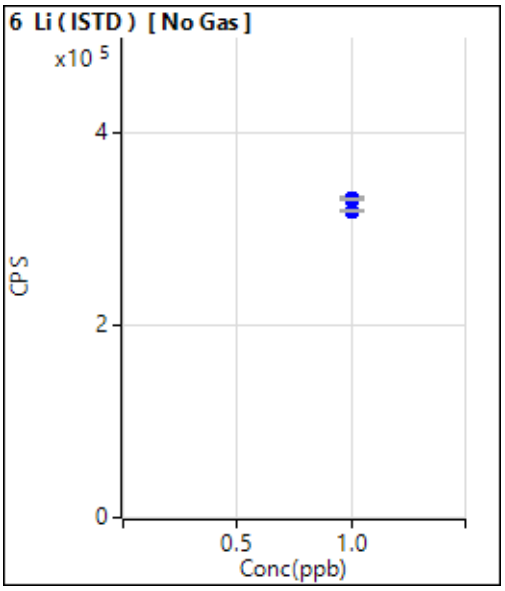
Weight: <None>
Min Conc: <None>



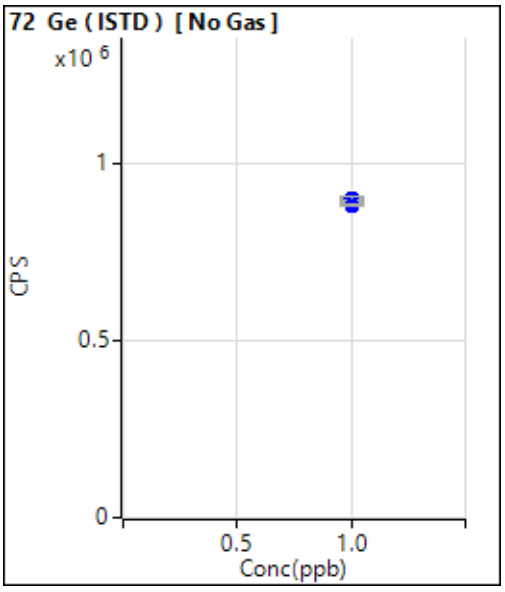
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	496.69	0.0004	P	20.5	
2	☐	2.000	1.787	44568.19	0.0393	P	1.2	-10.7
3	☐	5.000	4.598	114449.68	0.1004	P	0.4	-8.0
4	☐	10.000	9.291	229978.88	0.2024	P	0.9	-7.1
5	☐	100.000	100.848	2506607.10	2.1922	A	1.5	0.8
6	☐	200.000	199.624	4845037.22	4.3390	A	1.6	-0.2

y = 0.0217 * x + 4.4333E-004
R = 1.0000
DL = 0.01255 ppb
BEC = 0.0204 ppb

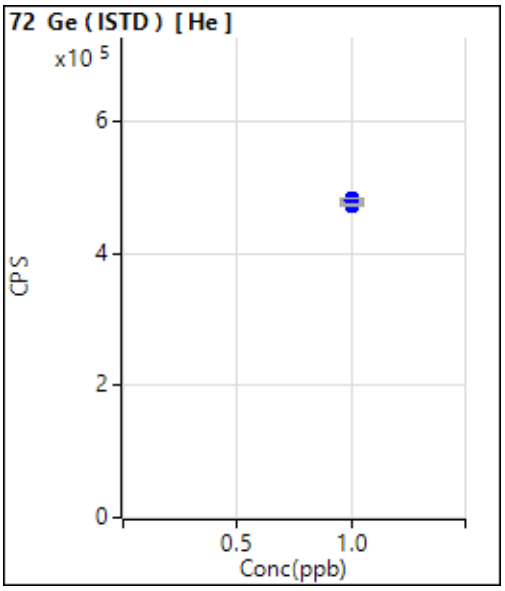
Weight: <None>
Min Conc: <None>



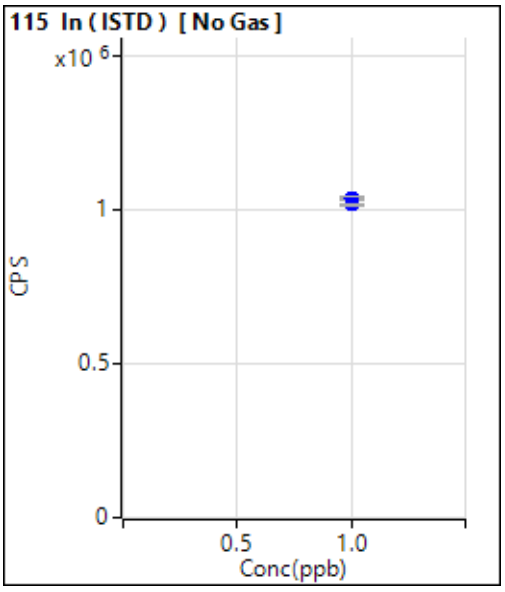
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		330976.45		P	0.6	
2	☐	1.000		329750.60		P	0.2	
3	☐	1.000		331288.14		P	1.3	
4	☐	1.000		330491.59		P	0.7	
5	☐	1.000		329494.52		P	0.5	
6	☐	1.000		318236.67		P	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		892757.67		P	0.2	
2	☐	1.000		901715.82		P	0.6	
3	☐	1.000		898065.43		P	0.4	
4	☐	1.000		892935.87		P	0.9	
5	☐	1.000		901725.82		P	0.7	
6	☐	1.000		882687.57		P	0.3	

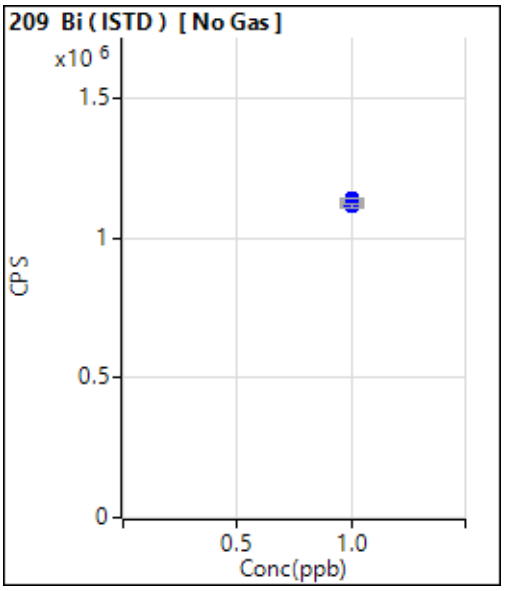


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		477077.62		P	0.7	
2	☐	1.000		474855.83		P	0.5	
3	☐	1.000		478568.95		P	0.2	
4	☐	1.000		478919.11		P	1.6	
5	☐	1.000		483102.23		P	0.6	
6	☐	1.000		472835.15		P	0.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1030947.84		P	0.3	
2	☐	1.000		1036567.49		P	0.6	
3	☐	1.000		1037106.73		P	0.6	
4	☐	1.000		1037093.86		P	0.9	
5	☐	1.000		1035801.66		P	1.1	
6	☐	1.000		1015862.66		P	0.7	

Calibration for 027_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1120748.13		P	0.3	
2	☐	1.000		1134701.88		P	0.4	
3	☐	1.000		1140158.84		P	0.7	
4	☐	1.000		1136451.39		P	0.6	
5	☐	1.000		1143412.90		P	0.1	
6	☐	1.000		1116721.00		P	0.9	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	028LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:55:22-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	020CALB.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	5.391	5.391	2.81	46126	0.01	5	
Be	9	1	No Gas	5.673	5.673	2.42	6830	0.08	5	
V	51	2	He	4.970	4.970	3.25	34600	0.01	5	
Cr	52	2	He	5.849	5.849	1.91	25053	0.02	5	
Fe	56	2	He	603.609	603.609	1.69	2543645	0.02	500	
Se	78	2	He	4.836	4.836	22.79	2303	0.21	5	
As	75	2	He	5.582	5.582	3.61	5061	0.11	5	
Ca	44	2	He	582.891	582.891	4.00	36352	1.60	500	
Na	23	2	He	586.784	586.784	2.05	841943	0.07	500	
Mg	24	2	He	548.915	548.915	0.87	350329	0.16	500	
K	39	2	He	623.929	623.929	3.36	1050200	0.06	500	
Mn	55	2	He	5.786	5.786	4.41	23935	0.02	5	
Co	59	2	He	5.688	5.688	1.19	29934	0.02	5	
Ni	60	2	He	5.595	5.595	5.08	7115	0.08	5	
Cu	63	2	He	5.695	5.695	2.17	18803	0.03	5	
Zn	66	2	He	6.009	6.009	4.96	5278	0.11	5	
Al	27	2	He	6.406	6.406	13.80	8369	0.08	5	
B	11	1	No Gas	43.748	43.748	6.30	31474	0.14	25	NewName2 Main CR1 Failed
Al	27	1	No Gas	6.484	6.484	3.93	93359	0.01	5	
Si	28	1	No Gas	24.842	24.842	8.02	600990	0.00	25	
Ag	107	1	No Gas	5.904	5.904	2.19	41262	0.01	5	
Cd	111	1	No Gas	5.631	5.631	2.91	7522	0.07	5	
Sr	88	1	No Gas	5.246	5.246	3.59	69746	0.01	5	
Mo	95	1	No Gas	5.502	5.502	4.60	13480	0.04	5	
Sn	118	1	No Gas	5.623	5.623	4.15	24083	0.02	5	
Sb	121	1	No Gas	5.216	5.216	0.56	34697	0.02	5	
Ba	137	1	No Gas	5.504	5.504	1.61	11832	0.05	5	
Tl	205	1	No Gas	5.383	5.383	3.10	82974	0.01	5	
Tl	203	1	No Gas	5.995	5.995	1.47	34976	0.02	5	
Pb	208	1	No Gas	5.338	5.338	2.25	114529	0.00	5	
U	238	1	No Gas	4.920	4.920	1.54	121789	0.00	5	
Ca	43	2	He	574.267	574.267	13.27	1500	38.28	500	
Sb	121	2	He	5.569	5.569	1.19	24073	0.02	5	
Ti	47	2	He	5.643	5.643	15.04	1107	0.51	5	
Cu	63	1	No Gas	6.059	6.059	3.64	40123	0.02	5	
Se	82	1	No Gas	5.677	5.677	35.12	414	1.37	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	331060	0.76	330976	100.03	70	120	
Ge	72	2	He	477854	0.70	477078	100.16	70	120	
Ge	72	1	No Gas	904340	0.43	892758	101.30	70	120	
In	115	1	No Gas	1042535	0.63	1030948	101.12	70	120	
Bi	209	1	No Gas	1134165	0.69	1120748	101.20	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	029LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T17:57:41-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	020CALB.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	2.133	2.133	1.74	30015	0.01	2	
Be	9	1	No Gas	2.257	2.257	7.42	2727	0.08	2	
V	51	2	He	1.688	1.688	3.68	21541	0.01	2	
Cr	52	2	He	2.425	2.425	4.89	11538	0.02	2	
Fe	56	2	He	229.197	229.197	3.74	998892	0.02	200	
Se	78	2	He	2.348	2.348	31.72	2102	0.11	2	
As	75	2	He	2.259	2.259	5.13	2565	0.09	2	
Ca	44	2	He	233.196	233.196	1.17	21537	1.08	200	
Na	23	2	He	226.195	226.195	1.47	486819	0.05	200	
Mg	24	2	He	218.812	218.812	1.20	141129	0.16	200	
K	39	2	He	219.614	219.614	1.84	648286	0.03	200	
Mn	55	2	He	2.288	2.288	3.61	10274	0.02	2	
Co	59	2	He	2.303	2.303	2.14	12343	0.02	2	
Ni	60	2	He	2.421	2.421	4.13	3180	0.08	2	
Cu	63	2	He	2.433	2.433	2.24	8463	0.03	2	
Zn	66	2	He	2.503	2.503	9.66	2584	0.10	2	
Al	27	2	He	3.113	3.113	27.71	6732	0.05	2	NewName Main CR1 Failed
B	11	1	No Gas	18.549	18.549	5.41	17302	0.11	10	NewName Main CR1 Failed
Al	27	1	No Gas	3.631	3.631	4.92	75770	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	8.820	8.820	37.01	548937	0.00	10	
Ag	107	1	No Gas	2.283	2.283	3.01	15977	0.01	2	
Cd	111	1	No Gas	2.266	2.266	3.52	3034	0.07	2	
Sr	88	1	No Gas	2.078	2.078	2.45	27722	0.01	2	
Mo	95	1	No Gas	2.305	2.305	7.08	5668	0.04	2	
Sn	118	1	No Gas	2.193	2.193	4.35	10237	0.02	2	
Sb	121	1	No Gas	2.151	2.151	6.98	14408	0.01	2	
Ba	137	1	No Gas	2.223	2.223	4.68	4804	0.05	2	
Tl	205	1	No Gas	2.131	2.131	1.23	33055	0.01	2	
Tl	203	1	No Gas	2.323	2.323	3.01	13674	0.02	2	
Pb	208	1	No Gas	2.108	2.108	3.18	45674	0.00	2	
U	238	1	No Gas	1.940	1.940	0.99	48152	0.00	2	
Ca	43	2	He	214.209	214.209	11.54	603	35.50	200	
Sb	121	2	He	2.287	2.287	5.28	10047	0.02	2	
Ti	47	2	He	2.086	2.086	13.40	417	0.50	200	
Cu	63	1	No Gas	2.416	2.416	4.66	22042	0.01	2	
Se	82	1	No Gas	0.773	0.773	249.17	40	1.93	2	NewName 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	329062	1.18	330976	99.42	70	120	
Ge	72	2	He	479025	0.57	477078	100.41	70	120	
Ge	72	1	No Gas	896747	1.96	892758	100.45	70	120	
In	115	1	No Gas	1034929	1.52	1030948	100.39	70	120	
Bi	209	1	No Gas	1130248	1.70	1120748	100.85	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	030_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:00:01-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.128	36.8	20168	1.1	0.5	
Be	9	1	No Gas	0.054	35.0	105	21.8	0.5	
V	51	2	He	-0.494	-12.5	12732	2.3	2.5	
Cr	52	2	He	0.074	41.5	2204	5.1	2.5	
Fe	56	2	He	5.276	24.1	70821	7.1	100	
Se	78	2	He	-1.017	-31.2	1811	1.3	1	
As	75	2	He	0.119	20.7	943	1.5	2.5	
Ca	44	2	He	12.436	52.6	12062	2.4	100	
Na	23	2	He	5.211	24.4	266423	0.3	100	
Mg	24	2	He	5.081	33.0	5092	20.5	100	
K	39	2	He	-0.517	-428.4	425618	0.4	100	
Mn	55	2	He	0.047	46.8	1470	6.2	2.5	
Co	59	2	He	0.054	50.4	597	23.5	2.5	
Ni	60	2	He	0.044	49.3	220	12.0	2.5	
Cu	63	2	He	0.065	17.3	920	3.8	1	
Zn	66	2	He	0.353	24.1	917	7.0	2.5	
Al	27	2	He	-0.242	-103.2	5018	2.3	5	
B	11	1	No Gas	5.557	4.4	10050	0.5	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	0.876	25.2	59293	1.5	5	
Si	28	1	No Gas	1.217	190.8	524378	0.4	10	
Ag	107	1	No Gas	0.060	33.8	637	22.1	2.5	
Cd	111	1	No Gas	0.066	28.7	133	18.9	1	
Sr	88	1	No Gas	0.070	1.5	1393	0.4	2.5	
Mo	95	1	No Gas	0.081	44.4	293	30.6	2.5	
Sn	118	1	No Gas	0.219	12.0	2360	5.5	5	
Sb	121	1	No Gas	0.086	15.0	907	9.2	2.5	
Ba	137	1	No Gas	0.128	35.2	367	25.8	2.5	
Tl	205	1	No Gas	0.080	6.0	1740	4.9	1	
Tl	203	1	No Gas	0.071	11.1	687	7.3	1	
Pb	208	1	No Gas	0.075	23.2	2540	15.2	2.5	
U	238	1	No Gas	0.055	30.9	1834	23.2	2.5	
Ca	43	2	He	9.399	185.5	90	48.4	100	
Sb	121	2	He	0.054	10.5	467	5.4	2.5	
Ti	47	2	He	0.224	35.4	53	28.6	2.5	
Se	82	1	No Gas	-1.486	-91.8	-127	-79.5	1	

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	327530	1.15	330976	98.96	70	120	
Ge	72	2	He	476262	0.44	477078	99.83	70	120	
Ge	72	1	No Gas	892688	0.98	892758	99.99	70	120	
In	115	1	No Gas	1033873	1.10	1030948	100.28	70	120	
Bi	209	1	No Gas	1122576	0.94	1120748	100.16	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	031LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:02:21-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	020CALB.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	4.933	4.933	1.53	43487	0.01	5	
Be	9	1	No Gas	5.201	5.201	3.13	6206	0.08	5	
V	51	2	He	4.933	4.933	0.94	34627	0.01	5	
Cr	52	2	He	5.297	5.297	1.85	22983	0.02	5	
Fe	56	2	He	559.679	559.679	0.12	2373878	0.02	500	
Se	78	2	He	5.468	5.468	26.27	2367	0.23	5	
As	75	2	He	5.328	5.328	2.35	4894	0.11	5	
Ca	44	2	He	531.671	531.671	1.09	34343	1.55	500	
Na	23	2	He	520.787	520.787	4.77	780636	0.07	500	
Mg	24	2	He	516.102	516.102	0.93	331139	0.16	500	
K	39	2	He	558.084	558.084	3.83	989281	0.06	500	
Mn	55	2	He	5.224	5.224	1.44	21851	0.02	5	
Co	59	2	He	5.432	5.432	0.57	28747	0.02	5	
Ni	60	2	He	5.328	5.328	7.25	6815	0.08	5	
Cu	63	2	He	5.398	5.398	0.67	17949	0.03	5	
Zn	66	2	He	5.689	5.689	1.68	5058	0.11	5	
Al	27	2	He	6.281	6.281	3.50	8346	0.08	5	
B	11	1	No Gas	29.103	29.103	0.42	23089	0.13	25	
Al	27	1	No Gas	6.068	6.068	2.54	89827	0.01	5	
Si	28	1	No Gas	22.495	22.495	13.18	587092	0.00	25	
Ag	107	1	No Gas	5.624	5.624	2.00	39342	0.01	5	
Cd	111	1	No Gas	5.362	5.362	4.24	7172	0.07	5	
Sr	88	1	No Gas	4.913	4.913	0.69	65406	0.01	5	
Mo	95	1	No Gas	5.265	5.265	1.90	12916	0.04	5	
Sn	118	1	No Gas	5.219	5.219	0.49	22483	0.02	5	
Sb	121	1	No Gas	4.989	4.989	1.24	32811	0.02	5	
Ba	137	1	No Gas	5.398	5.398	1.91	11615	0.05	5	
Tl	205	1	No Gas	4.891	4.891	1.30	75525	0.01	5	
Tl	203	1	No Gas	5.500	5.500	0.75	32145	0.02	5	
Pb	208	1	No Gas	5.064	5.064	1.25	108830	0.00	5	
U	238	1	No Gas	4.658	4.658	0.63	115472	0.00	5	
Ca	43	2	He	565.643	565.643	8.10	1487	38.04	500	
Sb	121	2	He	5.299	5.299	3.23	23031	0.02	5	
Ti	47	2	He	5.304	5.304	14.70	1047	0.51	5	
Cu	63	1	No Gas	5.496	5.496	2.07	36924	0.01	5	
Se	82	1	No Gas	3.681	3.681	53.10	260	1.42	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	328014	0.37	330976	99.11	70	120	
Ge	72	2	He	480272	0.74	477078	100.67	70	120	
Ge	72	1	No Gas	893767	0.98	892758	100.11	70	120	

Sample Report

In	115	1	No Gas	1043389	0.73	1030948	101.21	70	120	
Bi	209	1	No Gas	1135590	1.16	1120748	101.32	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	032ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:04:40-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.879	10.5	26119	3.4	0	ICSA Main CR1 Failed
Be	9	1	No Gas	-0.004	-525.5	40	69.6	0	ICSA Main CR1 Failed
V	51	2	He	0.174	24.5	15666	0.8	0	ICSA Main CR1 Failed
Cr	52	2	He	1.498	0.9	7956	0.4	0	ICSA Main CR1 Failed
Fe	56	2	He	106622.986	0.8	446951980	0.6	0	
Se	78	2	He	-0.366	-206.3	1898	2.9	0	ICSA Main CR1 Failed
As	75	2	He	0.502	21.7	1252	6.2	0	ICSA Main CR1 Failed
Ca	44	2	He	109163.074	0.8	4717849	0.4	0	
Na	23	2	He	107195.825	0.2	107692692	0.3	0	
Mg	24	2	He	107225.447	0.4	69041756	0.2	0	
K	39	2	He	106431.979	0.8	108153162	0.5	0	
Mn	55	2	He	0.455	10.5	3117	6.4	0	ICSA Main CR1 Failed
Co	59	2	He	0.273	4.4	1763	4.0	0	ICSA Main CR1 Failed
Ni	60	2	He	0.839	16.0	1227	14.2	0	ICSA Main CR1 Failed
Cu	63	2	He	0.379	7.9	1950	4.9	0	ICSA Main CR1 Failed
Zn	66	2	He	3.215	2.4	3170	2.0	0	ICSA Main CR1 Failed
Al	27	2	He	103538.429	0.6	52648666	0.6	0	
B	11	1	No Gas	5.365	12.9	10906	2.4	0	
Al	27	1	No Gas	99556.868	1.9	582193098	0.6	0	
Si	28	1	No Gas	20.700	15.6	579963	0.1	0	
Ag	107	1	No Gas	0.202	9.4	1583	7.3	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	1.273	5.2	1693	5.9	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	4.647	0.3	60286	1.3	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2348.926	1.4	5569687	0.5	0	
Sn	118	1	No Gas	0.538	1.0	3571	0.7	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.320	8.0	2424	6.8	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.957	8.8	2084	8.6	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.033	42.4	1010	21.5	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.027	37.5	430	14.1	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.240	3.9	5967	3.8	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.020	69.6	990	35.9	0	ICSA Main CR1 Failed
Ca	43	2	He	107311.582	1.8	271894	1.5	0	
Sb	121	2	He	0.322	0.4	1640	0.6	0	ICSA Main CR1 Failed
Ti	47	2	He	2229.118	0.4	439414	0.1	0	
Se	82	1	No Gas	-1.178	-119.5	-104	-101.4	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	359306	1.54	330976	108.56	70	120	
Ge	72	2	He	484721	0.43	477078	101.60	70	120	
Ge	72	1	No Gas	890955	1.66	892758	99.80	70	120	
In	115	1	No Gas	1016197	1.00	1030948	98.57	70	120	
Bi	209	1	No Gas	1114724	1.63	1120748	99.46	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	033ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:07:01-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	85.693	0.857	476847	0.17	100	85.7	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	91.172	1.581	118565	0.67	100	91.2	80	120	
V	51	2	He	104.318	0.464	431188	0.61	100	104.3	80	120	
Cr	52	2	He	104.277	1.256	414079	1.32	100	104.3	80	120	
Fe	56	2	He	116610.349	0.127	481623193	0.27	100	116610.3	80	120	
Se	78	2	He	100.078	1.637	10189	1.51	100	100.1	80	120	
As	75	2	He	103.138	0.992	78488	0.66	100	103.1	80	120	
Ca	44	2	He	117751.009	0.566	5013274	0.73	100	117751.0	80	120	
Na	23	2	He	116822.888	0.854	115615408	1.18	100	116822.9	80	120	
Mg	24	2	He	116317.505	0.522	73792926	0.26	100	116317.5	80	120	
K	39	2	He	115268.699	0.429	115374038	0.24	100	115268.7	80	120	
Mn	55	2	He	104.306	0.709	409317	0.95	100	104.3	80	120	
Co	59	2	He	103.769	0.309	540336	0.16	100	103.8	80	120	
Ni	60	2	He	102.820	1.290	127772	0.98	100	102.8	80	120	
Cu	63	2	He	101.558	0.328	323003	0.31	100	101.6	80	120	
Zn	66	2	He	102.634	1.756	79710	1.96	100	102.6	80	120	
Al	27	2	He	101911.223	0.704	51057886	0.49	100	101911.2	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	474.683	1.052	295559	1.18	100	474.7	80	120	
Al	27	1	No Gas	98206.415	0.789	566431165	0.35	100	98206.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	537.524	2.923	2054087	1.73	100	537.5	80	120	
Ag	107	1	No Gas	104.054	1.040	693956	0.88	100	104.1	80	120	
Cd	111	1	No Gas	105.927	1.107	134935	1.50	100	105.9	80	120	
Sr	88	1	No Gas	112.593	2.968	1426397	1.60	100	112.6	80	120	
Mo	95	1	No Gas	2435.735	2.198	5683595	1.26	100	2435.7	80	120	
Sn	118	1	No Gas	108.326	0.471	418840	0.88	100	108.3	80	120	
Sb	121	1	No Gas	98.114	0.424	627945	0.86	100	98.1	80	120	
Ba	137	1	No Gas	107.226	0.761	219392	1.06	100	107.2	80	120	
Tl	205	1	No Gas	105.592	3.287	1571032	1.90	100	105.6	80	120	
Tl	203	1	No Gas	105.393	1.337	592700	0.12	100	105.4	80	120	
Pb	208	1	No Gas	100.045	1.137	2068484	0.25	100	100.0	80	120	
U	238	1	No Gas	110.719	2.104	2651269	0.72	100	110.7	80	120	
Ca	43	2	He	115360.127	0.879	287985	0.76	100	115360.1	80	120	
Sb	121	2	He	103.172	0.720	441600	0.98	100	103.2	80	120	
Ti	47	2	He	2313.904	1.193	449408	1.03	100	2313.9	80	120	
Cu	63	1	No Gas	103.407	0.398	503558	0.26	100	103.4	80	120	
Se	82	1	No Gas	101.141	2.764	7436	2.51	100	101.1	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	359704	0.99	330976	108.68	70	120	
Ge	72	2	He	477583	0.34	477078	100.11	70	120	
Ge	72	1	No Gas	878593	0.46	892758	98.41	70	120	
In	115	1	No Gas	1000100	1.35	1030948	97.01	70	120	
Bi	209	1	No Gas	1101800	1.37	1120748	98.31	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	035_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:12:18-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	95.361	0.995	454814	0.47	100	95.4	90	110	
Be	9	1	No Gas	94.565	1.591	114655	1.13	100	94.6	90	110	
V	51	2	He	98.311	0.537	411461	0.13	100	98.3	90	110	
Cr	52	2	He	100.480	0.300	403251	0.81	100	100.5	90	110	
Fe	56	2	He	10084.830	1.179	42132162	0.75	10000	100.8	90	110	
Se	78	2	He	100.472	1.503	10329	1.35	100	100.5	90	110	
As	75	2	He	100.392	0.441	77221	0.40	100	100.4	90	110	
Ca	44	2	He	10035.469	0.712	442414	0.30	10000	100.4	90	110	
Na	23	2	He	10220.690	0.702	10462186	0.63	10000	102.2	90	110	
Mg	24	2	He	10029.686	1.039	6431532	1.53	10000	100.3	90	110	
K	39	2	He	10072.544	0.094	10581418	0.60	10000	100.7	90	110	
Mn	55	2	He	98.926	1.469	392312	0.97	100	98.9	90	110	
Co	59	2	He	99.703	0.706	524604	0.32	100	99.7	90	110	
Ni	60	2	He	100.745	1.760	126504	1.30	100	100.7	90	110	
Cu	63	2	He	100.373	0.585	322580	0.18	100	100.4	90	110	
Zn	66	2	He	102.145	2.167	80156	1.65	100	102.1	90	110	
Al	27	2	He	221.726	8.416	117474	8.51	100	221.7	90	110	CCV Main CR1-2 Failed
B	11	1	No Gas	467.746	0.726	271635	1.11	500	93.5	90	110	
Al	27	1	No Gas	234.425	9.640	1428875	8.54	100	234.4	90	110	CCV Main CR1-2 Failed
Si	28	1	No Gas	562.549	1.955	2162461	1.10	5000	11.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.061	0.096	690398	0.31	100	100.1	90	110	
Cd	111	1	No Gas	99.526	0.757	131161	0.92	100	99.5	90	110	
Sr	88	1	No Gas	98.903	0.725	1296596	0.98	100	98.9	90	110	
Mo	95	1	No Gas	100.936	0.503	243785	0.84	100	100.9	90	110	
Sn	118	1	No Gas	99.154	0.453	396744	0.70	100	99.2	90	110	
Sb	121	1	No Gas	93.350	1.176	607715	0.75	100	93.3	90	110	
Ba	137	1	No Gas	99.710	0.094	211063	0.30	100	99.7	90	110	
Tl	205	1	No Gas	96.774	0.533	1488916	0.28	100	96.8	90	110	
Tl	203	1	No Gas	97.552	0.543	567211	0.40	100	97.6	90	110	
Pb	208	1	No Gas	94.423	0.364	2018416	0.34	100	94.4	90	110	
U	238	1	No Gas	101.141	0.654	2504212	0.66	100	101.1	90	110	
Ca	43	2	He	10384.475	2.558	26259	3.01	10000	103.8	90	110	
Sb	121	2	He	99.221	0.915	429129	0.66	100	99.2	90	110	
Ti	47	2	He	103.564	5.051	20332	4.67	100	103.6	90	110	
Cu	63	1	No Gas	99.889	1.062	495128	0.41	100	99.9	90	110	
Se	82	1	No Gas	98.635	5.267	7375	4.65	100	98.6	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	335348	0.48	330976	101.32	70	120	
Ge	72	2	He	482581	0.51	477078	101.15	70	120	
Ge	72	1	No Gas	893713	0.80	892758	100.11	70	120	
In	115	1	No Gas	1034589	0.36	1030948	100.35	70	120	
Bi	209	1	No Gas	1138999	0.27	1120748	101.63	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	036_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:14:37-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.458	31.3	21927	3.1	0.5	
Be	9	1	No Gas	0.099	105.0	160	77.8	0.5	
V	51	2	He	-0.547	-6.9	12682	1.5	2.5	
Cr	52	2	He	0.300	5.2	3137	2.9	2.5	
Fe	56	2	He	75.873	20.5	366363	18.0	100	
Se	78	2	He	-0.075	-858.5	1914	3.8	2	
As	75	2	He	0.048	320.3	902	13.6	2.5	
Ca	44	2	He	87.816	22.1	15453	5.5	100	
Na	23	2	He	110.946	17.7	375355	5.3	100	CCB Main CR1 Failed
Mg	24	2	He	82.641	21.7	54866	21.1	100	
K	39	2	He	90.683	25.1	522981	4.2	100	
Mn	55	2	He	0.260	42.8	2334	19.3	2.5	
Co	59	2	He	0.223	27.9	1494	22.7	2.5	
Ni	60	2	He	0.235	33.7	463	21.7	2.5	
Cu	63	2	He	0.288	28.2	1650	16.3	2	
Zn	66	2	He	0.505	21.5	1047	8.6	2.5	
Al	27	2	He	53.102	22.9	32092	19.6	5	CCB Main CR1 Failed
B	11	1	No Gas	13.455	16.2	14519	8.3	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	20.872	112.6	174971	78.1	5	CCB Main CR1 Failed
Si	28	1	No Gas	8.879	11.1	541535	0.7	10	
Ag	107	1	No Gas	0.145	141.1	1210	115.8	2.5	
Cd	111	1	No Gas	0.153	118.8	247	96.7	1	
Sr	88	1	No Gas	0.107	143.0	1857	107.0	2.5	
Mo	95	1	No Gas	0.655	105.7	1664	99.8	2.5	
Sn	118	1	No Gas	0.277	56.7	2564	24.6	5	
Sb	121	1	No Gas	0.187	103.8	1554	80.7	2.5	
Ba	137	1	No Gas	0.151	139.8	413	107.5	2.5	
Tl	205	1	No Gas	0.296	70.3	4979	63.6	1	
Tl	203	1	No Gas	0.328	81.2	2144	71.4	1	
Pb	208	1	No Gas	0.143	111.3	3948	85.1	2.5	
U	238	1	No Gas	0.106	125.2	3082	105.4	2.5	
Ca	43	2	He	69.817	23.1	243	16.6	100	
Sb	121	2	He	0.330	27.5	1667	23.6	2.5	
Ti	47	2	He	1.339	29.8	273	29.6	2.5	
Cu	63	1	No Gas	0.107	130.9	10648	6.5	2.5	
Se	82	1	No Gas	-1.089	-115.3	-97	-96.1	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	329946	0.20	330976	99.69	70	120	
Ge	72	2	He	482466	1.20	477078	101.13	70	120	
Ge	72	1	No Gas	884179	0.58	892758	99.04	70	120	
In	115	1	No Gas	1022455	0.74	1030948	99.18	70	120	
Bi	209	1	No Gas	1113776	0.83	1120748	99.38	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	038_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:24:39-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.283	14.5	20592	1.0	0.5	
Be	9	1	No Gas	-0.016	-59.8	22	53.3	0.5	
V	51	2	He	-0.427	-12.4	12828	1.2	2.5	
Cr	52	2	He	0.032	223.0	2014	13.6	2.5	
Fe	56	2	He	0.638	48.7	51069	2.8	100	
Se	78	2	He	0.617	55.2	1921	2.1	2	
As	75	2	He	-0.254	-32.5	656	9.9	2.5	
Ca	44	2	He	32.717	43.2	12753	4.2	100	
Na	23	2	He	9.577	11.4	267239	0.7	100	
Mg	24	2	He	0.339	74.1	2067	7.2	100	
K	39	2	He	11.249	35.4	431684	0.9	100	
Mn	55	2	He	-0.024	-44.4	1180	3.1	2.5	
Co	59	2	He	-0.009	-198.5	263	35.9	2.5	
Ni	60	2	He	-0.033	-36.7	123	12.4	2.5	
Cu	63	2	He	0.052	49.6	870	9.2	2	
Zn	66	2	He	0.229	91.5	810	19.0	2.5	
Al	27	2	He	1.580	57.3	5851	7.4	5	
B	11	1	No Gas	1.146	30.6	7535	2.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	2.087	16.7	64994	2.9	5	
Si	28	1	No Gas	9.841	44.7	537904	1.4	10	
Ag	107	1	No Gas	-0.001	-307.8	207	15.6	2.5	
Cd	111	1	No Gas	-0.012	-164.9	30	88.2	1	
Sr	88	1	No Gas	-0.002	-172.3	440	10.4	2.5	
Mo	95	1	No Gas	0.049	37.7	210	21.8	2.5	
Sn	118	1	No Gas	0.046	50.2	1633	4.1	5	
Sb	121	1	No Gas	0.005	198.5	377	18.1	2.5	
Ba	137	1	No Gas	0.039	40.3	177	19.9	2.5	
Tl	205	1	No Gas	-0.003	-212.4	467	21.7	1	
Tl	203	1	No Gas	-0.011	-68.9	213	19.5	1	
Pb	208	1	No Gas	-0.004	-66.4	863	5.4	2.5	
U	238	1	No Gas	-0.008	-31.4	297	19.8	2.5	
Ca	43	2	He	7.167	128.8	83	27.7	100	
Sb	121	2	He	0.001	1923.1	237	29.7	2.5	
Ti	47	2	He	0.140	56.4	37	41.7	2.5	
Cu	63	1	No Gas	-0.115	-128.2	9467	6.6	2.5	
Se	82	1	No Gas	-2.079	-101.8	-167	-92.2	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	324085	0.31	330976	97.92	70	120	
Ge	72	2	He	470128	0.62	477078	98.54	70	120	
Ge	72	1	No Gas	873898	0.95	892758	97.89	70	120	
In	115	1	No Gas	1012313	1.36	1030948	98.19	70	120	
Bi	209	1	No Gas	1104209	0.80	1120748	98.52	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	039_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:26:58-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.193	30.3	20293	0.6	0.5	
Be	9	1	No Gas	-0.016	-14.6	22	13.3	0.5	
V	51	2	He	-0.325	-8.8	13261	1.9	2.5	
Cr	52	2	He	0.029	130.2	2007	6.5	2.5	
Fe	56	2	He	-0.211	-25.7	47724	1.9	100	
Se	78	2	He	1.277	52.6	1979	2.6	2	
As	75	2	He	-0.191	-41.2	703	9.3	2.5	
Ca	44	2	He	20.357	41.8	12262	1.4	100	
Na	23	2	He	6.355	76.8	264665	0.5	100	
Mg	24	2	He	-0.623	-16.6	1470	5.4	100	
K	39	2	He	3.442	143.2	424948	0.4	100	
Mn	55	2	He	-0.026	-118.6	1173	8.7	2.5	
Co	59	2	He	-0.014	-78.3	243	24.1	2.5	
Ni	60	2	He	-0.031	-45.6	127	12.1	2.5	
Cu	63	2	He	0.019	324.8	770	27.0	2	
Zn	66	2	He	0.305	41.7	870	11.3	2.5	
Al	27	2	He	1.393	22.9	5771	1.6	5	
B	11	1	No Gas	-0.227	-159.5	6817	2.2	0.5	
Al	27	1	No Gas	1.435	15.8	61841	2.1	5	
Si	28	1	No Gas	8.741	16.1	539941	0.7	10	
Ag	107	1	No Gas	-0.010	-88.8	150	40.0	2.5	
Cd	111	1	No Gas	-0.002	-616.9	43	35.3	1	
Sr	88	1	No Gas	0.000	1022.5	470	9.8	2.5	
Mo	95	1	No Gas	0.025	34.7	153	13.6	2.5	
Sn	118	1	No Gas	0.025	86.7	1557	4.9	5	
Sb	121	1	No Gas	0.000	-2019.7	343	14.7	2.5	
Ba	137	1	No Gas	0.062	37.6	223	22.1	2.5	
Tl	205	1	No Gas	-0.014	-11.4	313	8.0	1	
Tl	203	1	No Gas	-0.026	-24.1	130	26.6	1	
Pb	208	1	No Gas	-0.004	-85.2	870	8.0	2.5	
U	238	1	No Gas	-0.013	-9.6	170	17.6	2.5	
Ca	43	2	He	15.212	80.1	103	29.6	100	
Sb	121	2	He	-0.007	-47.4	203	7.5	2.5	
Ti	47	2	He	0.122	49.4	33	34.6	2.5	
Cu	63	1	No Gas	-0.330	-21.9	8530	4.0	2.5	
Se	82	1	No Gas	-0.364	-197.9	-43	-123.9	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Continuing Calibration Blank (CCB) Report

Li	6	1	No Gas	325654	0.75	330976	98.39	70	120	
Ge	72	2	He	471204	1.52	477078	98.77	70	120	
Ge	72	1	No Gas	882224	0.04	892758	98.82	70	120	
In	115	1	No Gas	1013408	0.60	1030948	98.30	70	120	
Bi	209	1	No Gas	1119003	0.82	1120748	99.84	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	040_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:29:18-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	97.197	0.974	446715	0.54	100	97.2	90	110	
Be	9	1	No Gas	97.449	1.487	113948	1.02	100	97.4	90	110	
V	51	2	He	96.574	0.460	408952	0.42	100	96.6	90	110	
Cr	52	2	He	97.785	0.473	396842	0.56	100	97.8	90	110	
Fe	56	2	He	9906.137	0.858	41846750	0.44	10000	99.1	90	110	
Se	78	2	He	98.522	1.703	10278	0.94	100	98.5	90	110	
As	75	2	He	98.720	0.301	76795	0.65	100	98.7	90	110	
Ca	44	2	He	9781.706	0.976	436314	0.52	10000	97.8	90	110	
Na	23	2	He	9785.511	0.458	10139640	0.88	10000	97.9	90	110	
Mg	24	2	He	9870.878	0.863	6399683	0.48	10000	98.7	90	110	
K	39	2	He	9879.147	1.052	10501590	0.58	10000	98.8	90	110	
Mn	55	2	He	98.373	1.185	394468	0.81	100	98.4	90	110	
Co	59	2	He	98.575	1.306	524425	0.87	100	98.6	90	110	
Ni	60	2	He	99.099	0.475	125827	0.34	100	99.1	90	110	
Cu	63	2	He	98.487	1.158	320046	0.91	100	98.5	90	110	
Zn	66	2	He	99.223	0.456	78751	0.34	100	99.2	90	110	
Al	27	2	He	105.636	0.942	59333	1.18	100	105.6	90	110	
B	11	1	No Gas	476.159	0.949	266562	1.25	500	95.2	90	110	
Al	27	1	No Gas	100.259	2.054	643017	1.28	100	100.3	90	110	
Si	28	1	No Gas	559.198	1.132	2154930	0.11	5000	11.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.381	1.041	680552	0.14	100	99.4	90	110	
Cd	111	1	No Gas	99.447	1.311	130087	2.21	100	99.4	90	110	
Sr	88	1	No Gas	99.994	0.916	1301204	2.01	100	100.0	90	110	
Mo	95	1	No Gas	98.737	2.242	236664	1.35	100	98.7	90	110	
Sn	118	1	No Gas	98.513	1.128	391224	0.71	100	98.5	90	110	
Sb	121	1	No Gas	91.914	0.770	598995	0.03	100	91.9	90	110	
Ba	137	1	No Gas	98.049	1.106	205993	0.81	100	98.0	90	110	
Tl	205	1	No Gas	95.060	1.773	1458716	1.32	100	95.1	90	110	
Tl	203	1	No Gas	95.722	1.228	555124	0.82	100	95.7	90	110	
Pb	208	1	No Gas	92.388	0.519	1969809	0.14	100	92.4	90	110	
U	238	1	No Gas	99.427	0.366	2455384	0.17	100	99.4	90	110	
Ca	43	2	He	9977.455	1.911	25511	1.97	10000	99.8	90	110	
Sb	121	2	He	97.424	0.777	426049	0.83	100	97.4	90	110	
Ti	47	2	He	97.440	2.946	19347	3.39	100	97.4	90	110	
Cu	63	1	No Gas	98.478	0.472	488792	0.35	100	98.5	90	110	
Se	82	1	No Gas	98.174	2.013	7349	1.88	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	323421	0.47	330976	97.72	70	120	
Ge	72	2	He	487942	0.45	477078	102.28	70	120	
Ge	72	1	No Gas	894634	0.75	892758	100.21	70	120	
In	115	1	No Gas	1026889	1.15	1030948	99.61	70	120	
Bi	209	1	No Gas	1136055	0.45	1120748	101.37	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	041_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:31:37-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	98.467	1.208	452603	0.39	100	98.5	90	110	
Be	9	1	No Gas	97.488	0.272	114079	0.72	100	97.5	90	110	
V	51	2	He	98.169	0.898	412991	0.61	100	98.2	90	110	
Cr	52	2	He	100.158	0.630	404010	0.40	100	100.2	90	110	
Fe	56	2	He	9991.284	0.541	41956534	0.56	10000	99.9	90	110	
Se	78	2	He	97.886	0.626	10164	0.48	100	97.9	90	110	
As	75	2	He	100.055	0.452	77359	0.50	100	100.1	90	110	
Ca	44	2	He	9997.710	0.344	443058	0.59	10000	100.0	90	110	
Na	23	2	He	9987.169	0.012	10281576	0.27	10000	99.9	90	110	
Mg	24	2	He	9983.442	0.267	6434354	0.01	10000	99.8	90	110	
K	39	2	He	9923.726	0.855	10484871	1.07	10000	99.2	90	110	
Mn	55	2	He	99.638	0.232	397163	0.36	100	99.6	90	110	
Co	59	2	He	99.419	0.714	525795	0.81	100	99.4	90	110	
Ni	60	2	He	99.324	0.761	125367	1.02	100	99.3	90	110	
Cu	63	2	He	99.904	0.395	322724	0.58	100	99.9	90	110	
Zn	66	2	He	101.339	1.070	79942	1.32	100	101.3	90	110	
Al	27	2	He	108.805	1.533	60592	1.39	100	108.8	90	110	
B	11	1	No Gas	488.352	1.466	273408	1.96	500	97.7	90	110	
Al	27	1	No Gas	100.030	0.606	650088	0.70	100	100.0	90	110	
Si	28	1	No Gas	549.813	1.044	2155333	0.77	5000	11.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.186	0.885	689492	0.86	100	99.2	90	110	
Cd	111	1	No Gas	98.513	0.744	130801	1.15	100	98.5	90	110	
Sr	88	1	No Gas	99.113	1.580	1309067	1.54	100	99.1	90	110	
Mo	95	1	No Gas	98.480	1.005	239631	0.61	100	98.5	90	110	
Sn	118	1	No Gas	98.507	0.721	397117	0.80	100	98.5	90	110	
Sb	121	1	No Gas	92.201	0.403	608716	0.40	100	92.2	90	110	
Ba	137	1	No Gas	97.997	1.612	208989	1.37	100	98.0	90	110	
Tl	205	1	No Gas	97.359	1.716	1504988	2.02	100	97.4	90	110	
Tl	203	1	No Gas	97.581	1.249	570013	0.64	100	97.6	90	110	
Pb	208	1	No Gas	93.130	0.255	2000170	0.94	100	93.1	90	110	
U	238	1	No Gas	99.733	2.112	2480659	1.20	100	99.7	90	110	
Ca	43	2	He	10030.802	1.596	25494	1.43	10000	100.3	90	110	
Sb	121	2	He	98.709	0.342	429106	0.38	100	98.7	90	110	
Ti	47	2	He	101.554	1.614	20042	1.38	100	101.6	90	110	
Cu	63	1	No Gas	98.907	1.139	497271	0.62	100	98.9	90	110	
Se	82	1	No Gas	97.530	2.569	7396	1.89	100	97.5	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	323648	0.83	330976	97.79	70	120	
Ge	72	2	He	485046	0.26	477078	101.67	70	120	
Ge	72	1	No Gas	906304	0.69	892758	101.52	70	120	
In	115	1	No Gas	1042347	0.42	1030948	101.11	70	120	
Bi	209	1	No Gas	1144381	1.19	1120748	102.11	70	120	

Sample Report

Sample Table

Sample Name	LCS-199483
Data File Name	044SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:38:38-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD 199483
ISTD Ref FileName	020CALB.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	0.301	0.301	34.27	22289	0.00	2000	
Be	9	1	No Gas	49.216	49.216	2.26	62204	0.08	2000	
V	51	2	He	48.316	48.316	0.69	226006	0.02	2000	
Cr	52	2	He	49.643	49.643	0.74	215681	0.02	2000	
Fe	56	2	He	5045.849	5045.849	1.23	22736495	0.02	200000	
Se	78	2	He	51.091	51.091	1.37	6675	0.77	2000	
As	75	2	He	50.312	50.312	2.05	42156	0.12	2000	
Ca	44	2	He	4935.275	4935.275	0.40	240791	2.05	200000	
Na	23	2	He	4996.641	4996.641	1.10	5655609	0.09	200000	
Mg	24	2	He	5067.153	5067.153	1.21	3501287	0.14	200000	
K	39	2	He	4998.095	4998.095	0.59	5890683	0.08	200000	
Mn	55	2	He	50.081	50.081	1.74	214665	0.02	2000	
Co	59	2	He	50.282	50.282	0.77	285195	0.02	2000	
Ni	60	2	He	50.271	50.271	0.66	68097	0.07	2000	
Cu	63	2	He	50.031	50.031	0.98	173612	0.03	2000	
Zn	66	2	He	51.798	51.798	2.20	44142	0.12	2000	
Al	27	2	He	102.603	102.603	1.05	61559	0.17	2000	
B	11	1	No Gas	1.143	1.143	44.72	8124	0.01	2000	
Al	27	1	No Gas	97.387	97.387	1.12	682170	0.01	2000	
Si	28	1	No Gas	174.726	174.726	4.39	1124618	0.02	2000	
Ag	107	1	No Gas	47.685	47.685	0.75	355684	0.01	2000	
Cd	111	1	No Gas	50.667	50.667	1.39	72188	0.07	2000	
Sr	88	1	No Gas	0.116	0.116	21.49	2150	0.01	2000	
Mo	95	1	No Gas	49.739	49.739	0.71	129876	0.04	2000	
Sn	118	1	No Gas	0.207	0.207	18.73	2500	0.01	2000	
Sb	121	1	No Gas	47.044	47.044	1.41	334185	0.01	2000	
Ba	137	1	No Gas	50.194	50.194	0.99	114879	0.04	2000	
Tl	205	1	No Gas	36.657	36.657	7.77	652368	0.01	2000	
Tl	203	1	No Gas	40.737	40.737	6.83	274158	0.01	2000	
Pb	208	1	No Gas	44.058	44.058	8.02	1089222	0.00	2000	
U	238	1	No Gas	0.058	0.058	29.86	2247	0.00	2000	
Ca	43	2	He	5110.867	5110.867	2.79	13957	36.62	200000	
Sb	121	2	He	49.585	49.585	0.72	231159	0.02	2000	
Ti	47	2	He	51.877	51.877	3.41	10978	0.47	2000	
Cu	63	1	No Gas	50.065	50.065	0.38	276207	0.02	2000	
Zn	66	1	No Gas	51.364	51.364	1.64	78510	0.07	2000	
Se	82	1	No Gas	50.829	50.829	0.90	4137	1.23	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	349465	0.86	330976	105.59	70	120	
Ge	72	2	He	519878	0.62	477078	108.97	70	120	
Ge	72	1	No Gas	974619	0.44	892758	109.17	70	120	
In	115	1	No Gas	1118073	0.48	1030948	108.45	70	120	

Sample Report

Bi	209	1	No Gas	1322200	8.03	1120748	117.97	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01
Data File Name	046SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:43:18-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD 199483
ISTD Ref FileName	020CALB.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	41.800	41.800	1.36	241574	0.02	2000	
Be	9	1	No Gas	0.210	0.210	15.20	340	0.06	2000	
V	51	2	He	1.615	1.615	4.20	22749	0.01	2000	
Cr	52	2	He	0.317	0.317	16.21	3407	0.01	2000	
Fe	56	2	He	43.188	43.188	15.48	244342	0.02	200000	
Se	78	2	He	-1.350	-1.350	-55.67	1921	-0.07	2000	
As	75	2	He	0.623	0.623	10.90	1423	0.04	2000	
Ca	44	2	He	13491.303	13491.303	0.41	627714	2.15	200000	
Na	23	2	He	822244.638	822244.638	0.54	871983454	0.09	200000	>LDR
Mg	24	2	He	17733.554	17733.554	0.97	12080983	0.15	200000	
K	39	2	He	2133.470	2133.470	1.01	2743092	0.08	200000	
Mn	55	2	He	26.726	26.726	1.71	113637	0.02	2000	
Co	59	2	He	0.228	0.228	21.46	1614	0.01	2000	
Ni	60	2	He	0.456	0.456	15.56	787	0.06	2000	
Cu	63	2	He	1.277	1.277	8.59	5121	0.02	2000	
Zn	66	2	He	3.792	3.792	7.48	3831	0.10	2000	
Al	27	2	He	10.452	10.452	4.07	11155	0.09	2000	
B	11	1	No Gas	32.031	32.031	0.70	28978	0.11	2000	
Al	27	1	No Gas	10.428	10.428	3.21	124448	0.01	2000	
Si	28	1	No Gas	10030.406	10030.406	0.50	32116102	0.03	2000	>LDR
Ag	107	1	No Gas	0.247	0.247	6.56	2014	0.01	2000	
Cd	111	1	No Gas	0.267	0.267	20.36	417	0.06	2000	
Sr	88	1	No Gas	371.539	371.539	1.66	5092519	0.01	2000	
Mo	95	1	No Gas	0.335	0.335	13.98	947	0.04	2000	
Sn	118	1	No Gas	0.280	0.280	13.48	2724	0.01	2000	
Sb	121	1	No Gas	0.353	0.353	2.35	2857	0.01	2000	
Ba	137	1	No Gas	194.648	194.648	1.37	430820	0.05	2000	
Tl	205	1	No Gas	0.577	0.577	25.24	9248	0.01	2000	
Tl	203	1	No Gas	0.633	0.633	21.26	3891	0.02	2000	
Pb	208	1	No Gas	0.274	0.274	10.64	6715	0.00	2000	
U	238	1	No Gas	0.019	0.019	12.72	960	0.00	2000	
Ca	43	2	He	13852.310	13852.310	3.24	37191	37.25	200000	
Sb	121	2	He	0.303	0.303	18.65	1647	0.02	2000	
Ti	47	2	He	1.084	1.084	21.86	237	0.46	2000	
Cu	63	1	No Gas	9.408	9.408	2.16	60294	0.02	2000	
Zn	66	1	No Gas	3.785	3.785	5.99	6855	0.06	2000	
Se	82	1	No Gas	0.748	0.748	273.72	43	1.75	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	384699	1.45	330976	116.23	70	120	
Ge	72	2	He	512772	0.21	477078	107.48	70	120	
Ge	72	1	No Gas	963731	0.33	892758	107.95	70	120	
In	115	1	No Gas	1082123	1.11	1030948	104.96	70	120	
Bi	209	1	No Gas	1120656	0.79	1120748	99.99	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01SD
Data File Name	047SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:45:37-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD 199483
ISTD Ref FileName	020CALB.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	9.695	48.474	1.93	72828	0.01	2000	
Be	9	1	No Gas	0.052	0.262	47.58	120	0.04	2000	
V	51	2	He	2.208	11.039	2.63	24643	0.01	2000	
Cr	52	2	He	0.115	0.574	35.55	2484	0.00	2000	
Fe	56	2	He	12.228	61.142	3.90	104362	0.01	200000	
Se	78	2	He	-0.630	-3.151	-77.45	1934	-0.03	2000	
As	75	2	He	0.321	1.605	39.41	1149	0.03	2000	
Ca	44	2	He	2721.053	13605.264	0.35	133039	2.05	200000	
Na	23	2	He	169848.331	849241.655	0.60	175750644	0.10	200000	
Mg	24	2	He	3644.159	18220.795	0.73	2420967	0.15	200000	
K	39	2	He	411.848	2059.239	1.66	876832	0.05	200000	
Mn	55	2	He	5.497	27.486	1.98	23851	0.02	2000	
Co	59	2	He	0.063	0.317	16.59	677	0.01	2000	
Ni	60	2	He	0.138	0.689	36.16	353	0.04	2000	
Cu	63	2	He	0.473	2.364	9.22	2320	0.02	2000	
Zn	66	2	He	1.402	7.009	13.12	1807	0.08	2000	
Al	27	2	He	3.097	15.484	1.70	7015	0.04	2000	
B	11	1	No Gas	5.577	27.886	6.20	11683	0.05	2000	
Al	27	1	No Gas	3.123	15.615	2.63	75344	0.00	2000	
Si	28	1	No Gas	2122.044	10610.218	0.91	6970691	0.03	2000	>LDR
Ag	107	1	No Gas	0.076	0.378	12.39	753	0.01	2000	
Cd	111	1	No Gas	0.097	0.483	31.26	177	0.05	2000	
Sr	88	1	No Gas	72.195	360.973	0.41	960946	0.01	2000	
Mo	95	1	No Gas	0.133	0.663	17.33	423	0.03	2000	
Sn	118	1	No Gas	0.154	0.769	7.33	2134	0.01	2000	
Sb	121	1	No Gas	0.088	0.439	17.15	957	0.01	2000	
Ba	137	1	No Gas	39.833	199.166	0.33	85658	0.05	2000	
Tl	205	1	No Gas	0.099	0.497	13.42	2014	0.00	2000	
Tl	203	1	No Gas	0.104	0.522	4.55	870	0.01	2000	
Pb	208	1	No Gas	0.084	0.420	19.58	2704	0.00	2000	
U	238	1	No Gas	-0.003	-0.013	-71.62	433	0.00	2000	
Ca	43	2	He	2811.730	14058.649	4.62	7412	37.93	200000	
Sb	121	2	He	0.108	0.539	23.86	730	0.01	2000	
Ti	47	2	He	0.473	2.367	43.27	107	0.44	2000	
Cu	63	1	No Gas	3.393	16.967	3.42	27745	0.01	2000	
Zn	66	1	No Gas	1.414	7.069	7.26	3204	0.04	2000	
Se	82	1	No Gas	-0.256	-1.280	-181.25	-37	0.70	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	380273	0.36	330976	114.89	70	120	
Ge	72	2	He	499710	0.31	477078	104.74	70	120	
Ge	72	1	No Gas	928159	0.22	892758	103.97	70	120	
In	115	1	No Gas	1050308	0.33	1030948	101.88	70	120	
Bi	209	1	No Gas	1115553	0.52	1120748	99.54	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01MSD
Data File Name	049SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:50:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD 199483
ISTD Ref FileName	020CALB.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	43.500	43.500	0.50	252132	0.02	2000	
Be	9	1	No Gas	48.213	48.213	2.44	67515	0.07	2000	
V	51	2	He	55.944	55.944	0.51	261498	0.02	2000	
Cr	52	2	He	51.785	51.785	0.54	226930	0.02	2000	
Fe	56	2	He	5242.750	5242.750	0.83	23834998	0.02	200000	
Se	78	2	He	33.479	33.479	1.06	5133	0.65	2000	
As	75	2	He	54.355	54.355	0.93	45881	0.12	2000	
Ca	44	2	He	19044.307	19044.307	0.03	901211	2.11	200000	
Na	23	2	He	857855.031	857855.031	1.08	930621693	0.09	200000	>LDR
Mg	24	2	He	23374.804	23374.804	0.47	16290162	0.14	200000	
K	39	2	He	7386.760	7386.760	0.59	8559802	0.09	200000	
Mn	55	2	He	79.425	79.425	1.15	342694	0.02	2000	
Co	59	2	He	51.818	51.818	0.51	296524	0.02	2000	
Ni	60	2	He	51.193	51.193	1.85	69967	0.07	2000	
Cu	63	2	He	52.021	52.021	0.61	182101	0.03	2000	
Zn	66	2	He	55.120	55.120	0.64	47349	0.12	2000	
Al	27	2	He	112.703	112.703	0.69	67671	0.17	2000	
B	11	1	No Gas	32.509	32.509	1.90	29481	0.11	2000	
Al	27	1	No Gas	103.667	103.667	0.27	734074	0.01	2000	
Si	28	1	No Gas	10415.566	10415.566	1.46	34248660	0.03	2000	>LDR
Ag	107	1	No Gas	47.846	47.846	1.23	353156	0.01	2000	
Cd	111	1	No Gas	51.458	51.458	1.45	72542	0.07	2000	
Sr	88	1	No Gas	379.791	379.791	0.19	5323108	0.01	2000	
Mo	95	1	No Gas	53.843	53.843	1.14	139115	0.04	2000	
Sn	118	1	No Gas	0.329	0.329	14.24	2994	0.01	2000	
Sb	121	1	No Gas	48.394	48.394	1.38	349324	0.01	2000	
Ba	137	1	No Gas	250.347	250.347	0.91	566546	0.04	2000	
Tl	205	1	No Gas	43.159	43.159	1.41	658361	0.01	2000	
Tl	203	1	No Gas	47.787	47.787	2.60	275478	0.02	2000	
Pb	208	1	No Gas	51.680	51.680	0.82	1095312	0.00	2000	
U	238	1	No Gas	0.013	0.013	20.16	810	0.00	2000	
Ca	43	2	He	19522.653	19522.653	0.12	53591	36.43	200000	
Sb	121	2	He	51.793	51.793	0.49	243611	0.02	2000	
Ti	47	2	He	54.137	54.137	5.00	11565	0.47	2000	
Cu	63	1	No Gas	69.418	69.418	0.40	384803	0.02	2000	
Zn	66	1	No Gas	55.470	55.470	0.91	86065	0.06	2000	
Se	82	1	No Gas	34.168	34.168	4.54	2820	1.21	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	387217	0.94	330976	116.99	70	120	
Ge	72	2	He	524556	1.47	477078	109.95	70	120	
Ge	72	1	No Gas	990418	0.65	892758	110.94	70	120	
In	115	1	No Gas	1106418	0.71	1030948	107.32	70	120	
Bi	209	1	No Gas	1128895	1.19	1120748	100.73	70	120	

Sample Report

Sample Table

Sample Name	HS23081076-01PDS
Data File Name	050SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T18:52:36-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD 199483
ISTD Ref FileName	020CALB.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	43.076	43.076	0.59	247389	0.02	2000	
Be	9	1	No Gas	95.857	95.857	1.64	132839	0.07	2000	
V	51	2	He	104.661	104.661	1.12	480507	0.02	2000	
Cr	52	2	He	100.982	100.982	1.45	445515	0.02	2000	
Fe	56	2	He	10154.365	10154.365	1.09	46639204	0.02	200000	
Se	78	2	He	101.877	101.877	2.96	11483	0.89	2000	
As	75	2	He	104.766	104.766	1.20	88552	0.12	2000	
Ca	44	2	He	25454.814	25454.814	2.70	1213859	2.10	200000	
Na	23	2	He	824053.980	824053.980	1.09	904163267	0.09	200000	>LDR
Mg	24	2	He	27583.369	27583.369	0.65	19441602	0.14	200000	
K	39	2	He	12379.733	12379.733	1.18	14189071	0.09	200000	
Mn	55	2	He	127.395	127.395	1.11	555060	0.02	2000	
Co	59	2	He	100.140	100.140	1.49	579247	0.02	2000	
Ni	60	2	He	97.936	97.936	0.41	135217	0.07	2000	
Cu	63	2	He	100.102	100.102	0.93	353683	0.03	2000	
Zn	66	2	He	104.584	104.584	1.75	90209	0.12	2000	
Al	27	2	He	111.639	111.639	3.44	67862	0.16	2000	
B	11	1	No Gas	32.048	32.048	2.75	28881	0.11	2000	
Al	27	1	No Gas	103.701	103.701	0.71	739908	0.01	2000	
Si	28	1	No Gas	10125.623	10125.623	0.46	33568358	0.03	2000	>LDR
Ag	107	1	No Gas	93.547	93.547	0.60	698086	0.01	2000	
Cd	111	1	No Gas	100.888	100.888	0.96	143795	0.07	2000	
Sr	88	1	No Gas	366.085	366.085	0.35	5189090	0.01	2000	
Mo	95	1	No Gas	103.894	103.894	0.80	271383	0.04	2000	
Sn	118	1	No Gas	0.235	0.235	35.46	2620	0.01	2000	
Sb	121	1	No Gas	93.642	93.642	0.64	680779	0.01	2000	
Ba	137	1	No Gas	294.334	294.334	0.31	673630	0.04	2000	
Tl	205	1	No Gas	95.705	95.705	1.95	1481016	0.01	2000	
Tl	203	1	No Gas	97.111	97.111	0.61	567949	0.02	2000	
Pb	208	1	No Gas	100.044	100.044	0.18	2151060	0.00	2000	
U	238	1	No Gas	0.008	0.008	47.62	707	0.00	2000	
Ca	43	2	He	23901.763	23901.763	0.34	66346	36.03	200000	
Sb	121	2	He	98.594	98.594	2.04	468757	0.02	2000	
Ti	47	2	He	104.477	104.477	2.89	22549	0.46	2000	
Cu	63	1	No Gas	121.858	121.858	1.04	672020	0.02	2000	
Zn	66	1	No Gas	103.568	103.568	0.05	160821	0.06	2000	
Se	82	1	No Gas	104.597	104.597	0.26	8736	1.20	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	383319	0.94	330976	115.81	70	120	
Ge	72	2	He	530572	1.24	477078	111.21	70	120	
Ge	72	1	No Gas	997996	0.29	892758	111.79	70	120	
In	115	1	No Gas	1118946	0.58	1030948	108.54	70	120	
Bi	209	1	No Gas	1145676	0.54	1120748	102.22	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	052_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T19:10:16-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.382	22.8	20755	3.0	0.5	
Be	9	1	No Gas	-0.016	-30.1	22	26.6	0.5	
V	51	2	He	3.110	1.8	26094	1.3	2.5	CCB Main CR1 Failed
Cr	52	2	He	0.021	221.6	1924	9.6	2.5	
Fe	56	2	He	1.235	14.0	52213	1.4	100	
Se	78	2	He	2.907	15.7	2058	1.3	2	CCB Main CR1 Failed
As	75	2	He	0.182	45.6	954	6.1	2.5	
Ca	44	2	He	60.357	10.3	13577	1.3	100	
Na	23	2	He	315.270	1.3	550861	0.3	100	CCB Main CR1 Failed
Mg	24	2	He	-1.020	-21.4	1190	11.8	100	
K	39	2	He	66.533	10.1	474314	0.8	100	
Mn	55	2	He	-0.029	-105.7	1130	9.7	2.5	
Co	59	2	He	-0.015	-28.6	230	8.7	2.5	
Ni	60	2	He	-0.028	-15.0	127	4.6	2.5	
Cu	63	2	He	0.321	6.7	1667	3.3	2	
Zn	66	2	He	0.155	8.0	737	0.8	2.5	
Al	27	2	He	0.723	135.9	5298	8.3	5	
B	11	1	No Gas	-3.315	-20.8	5028	6.2	0.5	
Al	27	1	No Gas	0.722	15.3	54972	1.4	5	
Si	28	1	No Gas	32.681	16.0	579837	0.6	10	CCB Main CR1 Failed
Ag	107	1	No Gas	-0.002	-42.4	190	5.3	2.5	
Cd	111	1	No Gas	0.016	122.2	63	39.7	1	
Sr	88	1	No Gas	-0.005	-163.2	383	26.1	2.5	
Mo	95	1	No Gas	0.007	141.5	107	23.6	2.5	
Sn	118	1	No Gas	-0.060	-39.4	1160	8.7	5	
Sb	121	1	No Gas	0.029	38.9	510	15.3	2.5	
Ba	137	1	No Gas	0.031	107.4	150	43.7	2.5	
Tl	205	1	No Gas	0.001	168.7	497	9.3	1	
Tl	203	1	No Gas	0.001	541.1	257	6.0	1	
Pb	208	1	No Gas	0.023	30.3	1303	7.6	2.5	
U	238	1	No Gas	-0.015	-10.6	120	28.9	2.5	
Ca	43	2	He	23.161	170.9	120	79.5	100	
Sb	121	2	He	0.018	25.1	303	6.9	2.5	
Ti	47	2	He	0.127	48.1	33	34.6	2.5	
Cu	63	1	No Gas	5.226	6.2	33472	2.9	2.5	CCB Main CR1 Failed
Se	82	1	No Gas	-0.372	-464.9	-40	-297.0	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	319837	1.27	330976	96.63	70	120	
Ge	72	2	He	458887	0.63	477078	96.19	70	120	
Ge	72	1	No Gas	840400	1.92	892758	94.14	70	120	
In	115	1	No Gas	959358	1.96	1030948	93.06	70	120	
Bi	209	1	No Gas	1027069	2.72	1120748	91.64	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	053_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T19:12:37-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	97.623	2.008	458362	1.11	100	97.6	90	110	
Be	9	1	No Gas	96.979	0.738	115880	0.68	100	97.0	90	110	
V	51	2	He	98.396	0.670	415420	0.56	100	98.4	90	110	
Cr	52	2	He	98.144	0.491	397369	0.44	100	98.1	90	110	
Fe	56	2	He	9917.797	0.521	41799687	0.49	10000	99.2	90	110	
Se	78	2	He	100.509	2.424	10422	1.82	100	100.5	90	110	
As	75	2	He	98.218	1.321	76230	1.19	100	98.2	90	110	
Ca	44	2	He	9946.241	0.505	442437	0.49	10000	99.5	90	110	
Na	23	2	He	10208.256	0.876	10541374	0.70	10000	102.1	90	110	
Mg	24	2	He	9891.909	0.854	6398525	0.70	10000	98.9	90	110	
K	39	2	He	10054.812	0.459	10656060	0.38	10000	100.5	90	110	
Mn	55	2	He	98.812	0.666	395313	0.53	100	98.8	90	110	
Co	59	2	He	98.444	0.448	522533	0.35	100	98.4	90	110	
Ni	60	2	He	96.928	0.225	122791	0.28	100	96.9	90	110	
Cu	63	2	He	97.688	0.359	316725	0.29	100	97.7	90	110	
Zn	66	2	He	98.695	0.902	78154	0.74	100	98.7	90	110	
Al	27	2	He	108.707	0.651	60763	0.75	100	108.7	90	110	
B	11	1	No Gas	467.884	1.086	267786	1.80	500	93.6	90	110	
Al	27	1	No Gas	102.243	0.918	655503	0.02	100	102.2	90	110	
Si	28	1	No Gas	587.346	0.611	2240011	1.04	5000	11.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.623	1.402	676009	0.60	100	99.6	90	110	
Cd	111	1	No Gas	99.600	1.481	129085	0.71	100	99.6	90	110	
Sr	88	1	No Gas	100.517	1.504	1296015	1.60	100	100.5	90	110	
Mo	95	1	No Gas	99.133	1.073	235472	0.15	100	99.1	90	110	
Sn	118	1	No Gas	99.207	0.571	390415	1.13	100	99.2	90	110	
Sb	121	1	No Gas	91.479	0.470	596917	0.57	100	91.5	90	110	
Ba	137	1	No Gas	97.837	1.491	203673	0.59	100	97.8	90	110	
Tl	205	1	No Gas	94.691	1.471	1429985	2.17	100	94.7	90	110	
Tl	203	1	No Gas	95.028	1.468	542266	0.59	100	95.0	90	110	
Pb	208	1	No Gas	91.395	0.236	1917539	0.86	100	91.4	90	110	
U	238	1	No Gas	98.058	1.241	2383127	2.23	100	98.1	90	110	
Ca	43	2	He	10279.367	2.884	26219	2.74	10000	102.8	90	110	
Sb	121	2	He	96.167	1.240	419575	1.11	100	96.2	90	110	
Ti	47	2	He	101.620	3.674	20128	3.73	100	101.6	90	110	
Cu	63	1	No Gas	104.017	0.245	516367	1.08	100	104.0	90	110	
Se	82	1	No Gas	96.752	2.908	7251	2.69	100	96.8	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	330493	0.86	330976	99.85	70	120	
Ge	72	2	He	486810	0.16	477078	102.04	70	120	
Ge	72	1	No Gas	895744	0.84	892758	100.33	70	120	
In	115	1	No Gas	1017560	1.03	1030948	98.70	70	120	
Bi	209	1	No Gas	1117911	1.03	1120748	99.75	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	054_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T19:17:30-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.199	16.7	20412	0.8	0.5	
Be	9	1	No Gas	0.081	42.7	137	29.6	0.5	
V	51	2	He	0.632	13.6	17209	1.9	2.5	
Cr	52	2	He	0.114	18.6	2364	2.7	2.5	
Fe	56	2	He	9.043	12.8	86295	4.9	100	
Se	78	2	He	1.990	20.2	2059	0.8	2	
As	75	2	He	0.112	44.8	938	3.2	2.5	
Ca	44	2	He	37.381	12.3	13113	1.3	100	
Na	23	2	He	208.874	2.2	466764	0.5	100	CCB Main CR1 Failed
Mg	24	2	He	7.503	19.6	6623	13.9	100	
K	39	2	He	41.042	13.8	466756	1.2	100	
Mn	55	2	He	0.027	174.2	1390	12.3	2.5	
Co	59	2	He	0.081	18.2	737	10.0	2.5	
Ni	60	2	He	0.060	95.2	240	29.2	2.5	
Cu	63	2	He	0.308	11.0	1690	5.6	2	
Zn	66	2	He	0.237	5.9	827	1.8	2.5	
Al	27	2	He	0.570	60.8	5421	2.9	5	
B	11	1	No Gas	3.106	36.1	8686	7.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.658	28.7	57674	1.1	5	
Si	28	1	No Gas	18.982	12.9	572756	0.3	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.087	14.5	797	11.3	2.5	
Cd	111	1	No Gas	0.084	20.5	153	15.1	1	
Sr	88	1	No Gas	0.085	12.2	1544	8.6	2.5	
Mo	95	1	No Gas	0.099	50.6	327	35.9	2.5	
Sn	118	1	No Gas	0.131	8.5	1957	2.8	5	
Sb	121	1	No Gas	0.120	16.8	1123	11.3	2.5	
Ba	137	1	No Gas	0.097	21.9	293	15.4	2.5	
Tl	205	1	No Gas	0.207	27.5	3511	22.9	1	
Tl	203	1	No Gas	0.242	27.8	1597	22.4	1	
Pb	208	1	No Gas	0.081	21.7	2554	13.7	2.5	
U	238	1	No Gas	0.074	24.4	2220	19.3	2.5	
Ca	43	2	He	10.738	91.2	93	27.0	100	
Sb	121	2	He	0.110	22.8	707	15.6	2.5	
Ti	47	2	He	0.275	53.8	63	45.6	2.5	
Cu	63	1	No Gas	4.002	4.5	29456	1.9	2.5	CCB Main CR1 Failed
Se	82	1	No Gas	-0.691	-197.6	-67	-150.8	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	327102	0.43	330976	98.83	70	120	
Ge	72	2	He	476077	0.85	477078	99.79	70	120	
Ge	72	1	No Gas	887448	1.08	892758	99.41	70	120	
In	115	1	No Gas	1006076	0.66	1030948	97.59	70	120	
Bi	209	1	No Gas	1079839	0.69	1120748	96.35	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	055_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\082823C.b
Acq Date Time	2023-08-28T19:20:31-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	020CALB.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	0.183	63.4	20311	3.0	0.5	
Be	9	1	No Gas	0.009	120.2	52	24.4	0.5	
V	51	2	He	0.897	8.8	18261	1.6	2.5	
Cr	52	2	He	0.097	42.8	2294	7.3	2.5	
Fe	56	2	He	2.035	23.4	57459	3.6	100	
Se	78	2	He	1.967	36.7	2057	2.8	2	
As	75	2	He	-0.060	-41.4	809	2.4	2.5	
Ca	44	2	He	33.921	44.3	12966	5.1	100	
Na	23	2	He	187.870	1.0	446060	0.5	100	CCB Main CR1 Failed
Mg	24	2	He	1.163	39.4	2614	11.1	100	
K	39	2	He	16.502	17.0	442321	0.6	100	
Mn	55	2	He	0.001	1148.5	1290	2.7	2.5	
Co	59	2	He	0.008	140.0	360	16.9	2.5	
Ni	60	2	He	0.014	266.4	183	25.2	2.5	
Cu	63	2	He	0.200	15.0	1347	6.9	2	
Zn	66	2	He	0.159	44.8	767	7.2	2.5	
Al	27	2	He	0.103	329.0	5188	3.4	5	
B	11	1	No Gas	-0.273	-193.5	6812	4.1	0.5	
Al	27	1	No Gas	0.620	10.7	57640	0.8	5	
Si	28	1	No Gas	16.513	8.5	567420	0.3	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.032	20.4	430	10.1	2.5	
Cd	111	1	No Gas	0.024	82.0	77	32.8	1	
Sr	88	1	No Gas	0.024	27.6	777	11.1	2.5	
Mo	95	1	No Gas	0.025	35.8	153	13.6	2.5	
Sn	118	1	No Gas	0.057	24.6	1683	3.3	5	
Sb	121	1	No Gas	0.033	13.4	560	4.7	2.5	
Ba	137	1	No Gas	0.054	80.4	207	43.4	2.5	
Tl	205	1	No Gas	0.032	21.7	980	10.7	1	
Tl	203	1	No Gas	0.024	24.2	403	7.6	1	
Pb	208	1	No Gas	0.024	36.6	1407	11.8	2.5	
U	238	1	No Gas	0.015	26.3	827	11.2	2.5	
Ca	43	2	He	4.088	203.7	77	27.2	100	
Sb	121	2	He	0.027	23.7	350	7.6	2.5	
Ti	47	2	He	0.052	172.8	20	86.6	2.5	
Cu	63	1	No Gas	3.533	3.3	27284	1.9	2.5	CCB Main CR1 Failed
Se	82	1	No Gas	-0.495	-109.3	-53	-75.7	2	

QC ISTD Table

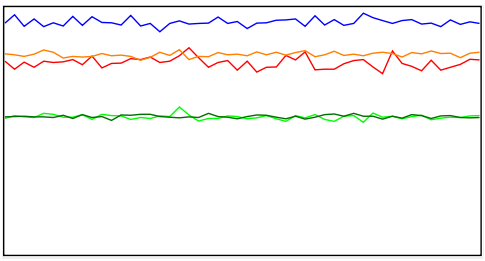
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	326601	0.47	330976	98.68	70	120	
Ge	72	2	He	476021	0.16	477078	99.78	70	120	
Ge	72	1	No Gas	890239	0.39	892758	99.72	70	120	
In	115	1	No Gas	1015348	0.07	1030948	98.49	70	120	
Bi	209	1	No Gas	1086179	0.92	1120748	96.92	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\082823A.b
Acq. Date-Time	8/28/2023 9:35:39 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	2000	1553	15528.10		
24	10000	5567	55669.97		
59	10000	9414	94136.89		
115	20000	16207	162072.23		
208	20000	11167	111666.83		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.905	5.000	
24	1.827	5.000	
59	1.617	5.000	
115	1.182	5.000	
208	1.124	5.000	

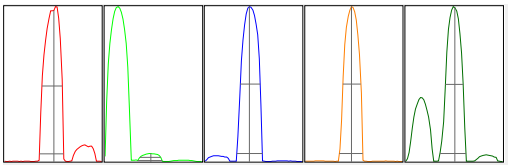
Mass	Background	Background (Required)	Background (Flag)
9	3.700		
24	0.700		
59	0.500		
115	1.200		
208	2.400		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.632 %
Doubly Charged	70 / 140 0.945 %

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	1540.39	9.05	8.90 - 9.10	
24	5526.06	23.95	23.90 - 24.10	
59	9616.94	58.90	58.90 - 59.10	
115	16345.86	114.95	114.90 - 115.10	
208	11043.93	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.740		
24	0.63	0.744		
59	0.61	0.778		
115	0.55	0.714		
208	0.55	0.795		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.80 L/min	Dilution Gas	0.27 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 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	10.2 V	Deflect	14.8 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-75 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	0.9995	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.4 mm

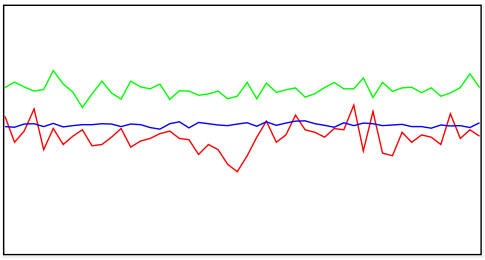
EM

Discriminator	4.0 mV	Analog HV	2215 V	Pulse HV	1289 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	200	94	942.43		
24	1000	664	6641.97		
59	10000	5204	52037.05		

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

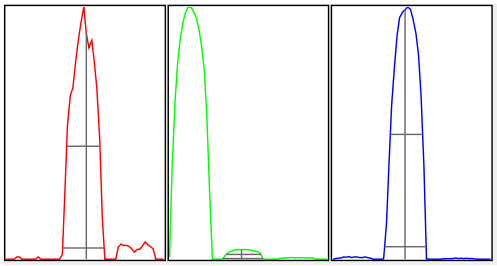
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	11.647	5.000	Fail
24	4.166	5.000	
59	1.492	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	1.000		
24	0.500		
59	0.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.646 %
Doubly Charged	70 / 140 0.902 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	98.26	9.05	8.90 - 9.10	
24	655.43	23.90	23.90 - 24.10	
59	5137.56	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.781		
24	0.65	0.755		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.60	0.776		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.80 L/min	Dilution Gas	0.27 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 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	7.6 V	Deflect	0.2 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-95 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	3.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9995	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.4 mm

EM

Discriminator	4.0 mV	Analog HV	2215 V	Pulse HV	1289 V

HS23081076 Wetchem 9056_W

ALS WO# HS23081076