

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW032123\
 Data File : VW030272.D
 Acq On : 21 Mar 2023 12:01
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005310

Quant Time: Mar 22 06:00:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 17 22:49:08 2023
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	128495	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	120442	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	69753	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	46109	5.546	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	111.000%
7) Chloroethane-d5	1.536	69	42284	5.418	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.400%
11) 1,1-Dichloroethene-d2	2.066	63	96967	5.673	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	113.400%
20) 2-Butanone-d5	3.822	46	87359	56.989	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	113.980%
24) Chloroform-d	4.259	84	92903	5.470	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.400%
26) 1,2-Dichloroethane-d4	4.950	65	45893	6.619	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	132.400%#
32) Benzene-d6	4.969	84	170150	5.250	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.000%
36) 1,2-Dichloropropane-d6	5.995	67	46802	4.800	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.000%
41) Toluene-d8	7.249	98	165320	5.382	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.600%
43) trans-1,3-Dichloroprop...	7.561	79	19880	5.960	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	119.200%
46) 2-Hexanone-d5	8.034	63	71258	51.636	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.280%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	34265	4.940	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.800%
66) 1,2-Dichlorobenzene-d4	11.567	152	60990	5.168	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.108	85	46196	4.419	ug/L	99
3) Chloromethane	1.217	50	63135	3.832	ug/L	96
5) Vinyl chloride	1.285	62	47573	4.345	ug/L	98
6) Bromomethane	1.494	94	12820	6.523	ug/L	97
8) Chloroethane	1.555	64	31160	4.671	ug/L	97
9) Trichlorofluoromethane	1.719	101	85631	5.451	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.072	101	46589	4.782	ug/L	96
12) 1,1-Dichloroethene	2.076	96	38925	4.514	ug/L	80
13) Acetone	2.153	43	68133	60.136	ug/L	69
14) Carbon disulfide	2.246	76	83765	3.630	ug/L	100
15) Methyl Acetate	2.394	43	12101	4.573	ug/L	98
16) Methylene chloride	2.452	84	45260	4.296	ug/L	88
17) Methyl tert-butyl Ether	2.712	73	87942	5.215	ug/L #	95
18) trans-1,2-Dichloroethene	2.699	96	36219	4.415	ug/L	95
19) 1,1-Dichloroethane	3.117	63	74338	4.865	ug/L	99
21) 2-Butanone	3.905	43	88311	57.957	ug/L	89
22) cis-1,2-Dichloroethene	3.822	96	42092	4.642	ug/L	97
23) Bromochloromethane	4.159	128	18623	4.806	ug/L	97
25) Chloroform	4.285	83	83065	5.225	ug/L	96

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 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.050	62	52025	6.257	ug/L #	94
29) 1,1,1-Trichloroethane	4.519	97	77546	5.481	ug/L	96
30) Cyclohexane	4.590	56	53810	4.402	ug/L	97
31) Carbon tetrachloride	4.741	117	70357	5.533	ug/L	99
33) Benzene	5.018	78	155743	4.735	ug/L	100
34) Trichloroethene	5.841	95	40954	4.443	ug/L	97
35) Methylcyclohexane	6.056	83	58337	4.182	ug/L	92
37) 1,2-Dichloropropane	6.101	63	38994	4.660	ug/L	97
38) Bromodichloromethane	6.439	83	57085	5.344	ug/L	95
39) cis-1,3-Dichloropropene	6.960	75	58630	4.786	ug/L	100
40) 4-Methyl-2-pentanone	7.166	43	209475	60.662	ug/L	92
42) Toluene	7.323	91	175594	4.929	ug/L	99
44) trans-1,3-Dichloropropene	7.587	75	50877	5.320	ug/L	96
45) 1,1,2-Trichloroethane	7.776	97	28987	4.841	ug/L	97
47) Tetrachloroethene	7.911	164	37467	4.736	ug/L	97
48) 2-Hexanone	8.085	43	157697	63.791	ug/L	90
49) Dibromochloromethane	8.185	129	37020	5.283	ug/L	99
50) 1,2-Dibromoethane	8.291	107	26447	4.734	ug/L	98
51) Chlorobenzene	8.821	112	116652	4.855	ug/L	98
52) Ethylbenzene	8.953	91	192948	4.976	ug/L	100
53) m,p-Xylene	9.079	106	76997	5.167	ug/L	98
54) o-Xylene	9.487	106	72997	5.128	ug/L	98
55) Styrene	9.503	104	129892	5.487	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.185	83	33021	4.930	ug/L	100
59) Bromoform	9.673	173	21423	5.124	ug/L	96
60) Isopropylbenzene	9.876	105	208502	5.195	ug/L	99
61) 1,2,3-Trichloropropane	10.217	75	23017	4.930	ug/L	97
62) 1,3,5-Trimethylbenzene	10.484	105	171130	5.191	ug/L	99
63) 1,2,4-Trimethylbenzene	10.860	105	175845	5.214	ug/L	99
64) 1,3-Dichlorobenzene	11.124	146	105758	5.061	ug/L	99
65) 1,4-Dichlorobenzene	11.217	146	106026	5.029	ug/L	97
67) 1,2-Dichlorobenzene	11.587	146	96651	5.238	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.374	75	5890	5.649	ug/L	87
69) 1,3,5-Trichlorobenzene	12.590	180	85018	4.949	ug/L	100
70) 1,2,4-trichlorobenzene	13.207	180	66620	4.787	ug/L	99
71) Naphthalene	13.448	128	88580	4.871	ug/L	99
72) 1,2,3-Trichlorobenzene	13.689	180	54749	4.779	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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VSTD005310

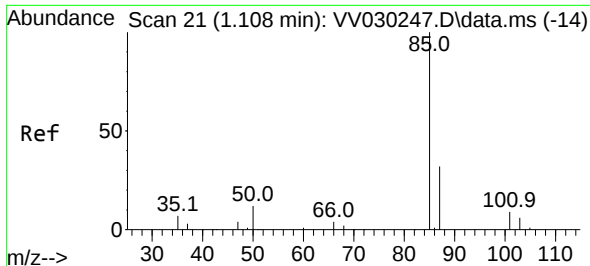
Abundance

TIC: VV030272.D\data.ms

Time-->

Chemical compounds and retention times (min):

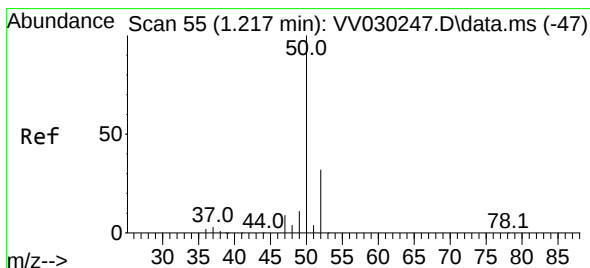
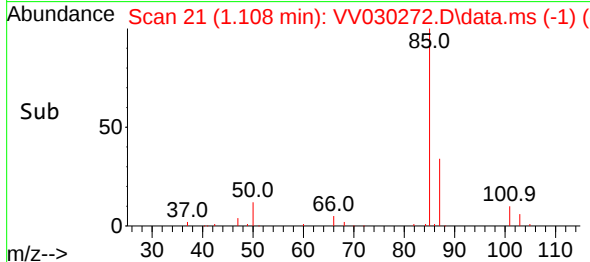
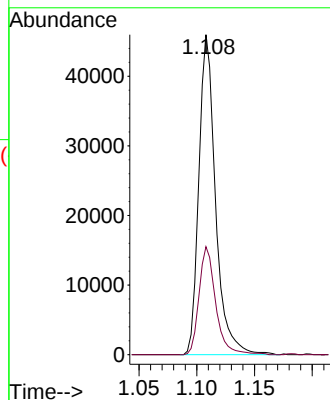
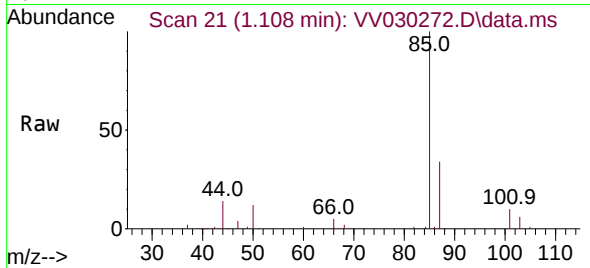
- 1,1,1-Trichloroethane, T (0.50)
- 1,1,2-Trichloroethane, T (0.50)
- 1,1,2,2-Tetrachloroethane, T (0.50)
- 1,1,2,2,3-Pentachloroethane, T (0.50)
- 1,1,2,2,3,3-Hexachloroethane, T (0.50)
- 1,1,2,2,3,3,4-Heptachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4-Octachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5-Nonachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6-Decachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7-Undecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8-Dodecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9-Tridecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10-Tetradecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11-Pentadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12-Hexadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13-Heptadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14-Octadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15-Nonadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16-Eicadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17-Tricadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18-Tetradecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19-Pentadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20-Hexadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21-Heptadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22-Octadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23-Nonadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24-Eicadecachloroethane, T (0.50)
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- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26-Tetradecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27-Pentadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28-Hexadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29-Heptadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30-Octadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31-Nonadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32-Eicadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33-Tricadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34-Tetradecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35-Pentadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36-Hexadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37-Heptadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38-Octadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39-Nonadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40-Eicadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41-Tricadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42-Tetradecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43-Pentadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44-Hexadecachloroethane, T (0.50)
- 1,1,2,2,3,3,4,4,5,6,7,8,9,10,



#2
 Dichlorodifluoromethane
 Concen: 4.419 ug/L
 RT: 1.108 min Scan# 21
 Delta R.T. 0.000 min
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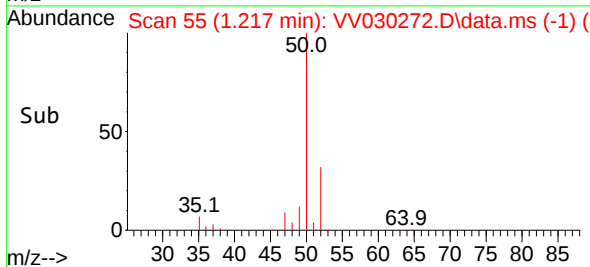
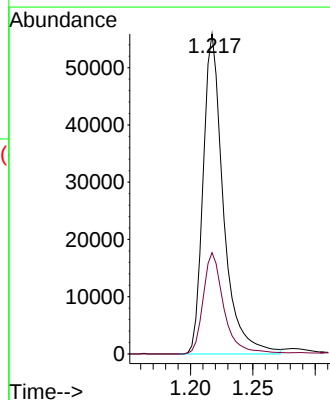
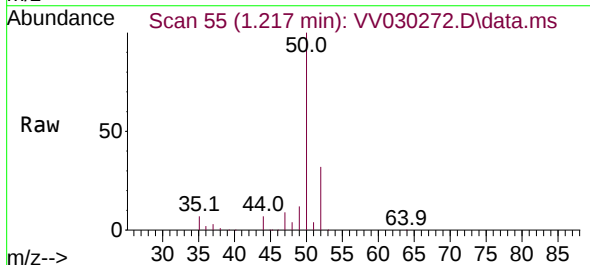
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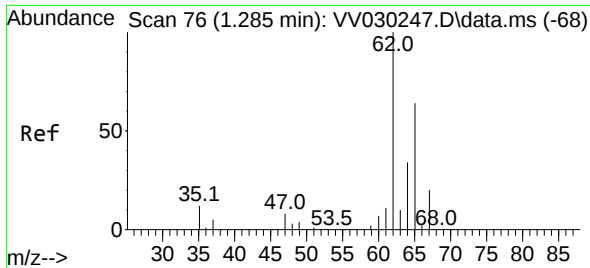
Tgt Ion: 85 Resp: 46196
 Ion Ratio Lower Upper
 85 100
 87 33.7 26.6 39.8



#3
 Chloromethane
 Concen: 3.832 ug/L
 RT: 1.217 min Scan# 55
 Delta R.T. -0.000 min
 Lab File: VV030272.D
 Acq: 21 Mar 2023 12:01

Tgt Ion: 50 Resp: 63135
 Ion Ratio Lower Upper
 50 100
 52 31.7 23.6 43.8

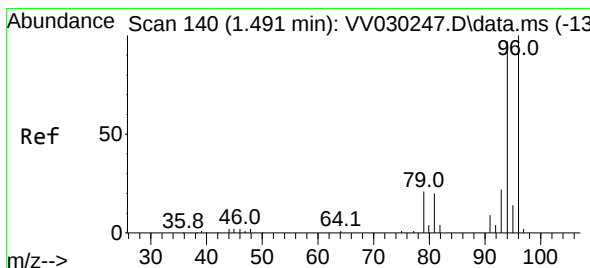
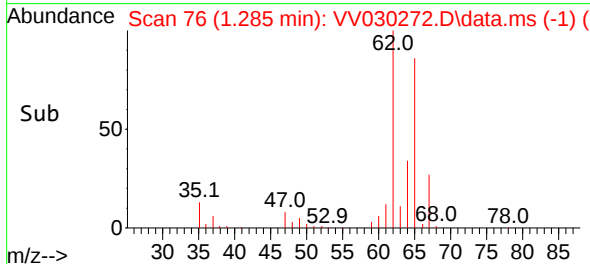
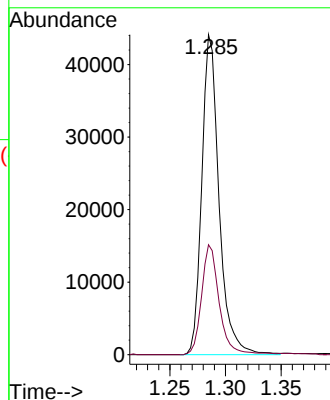
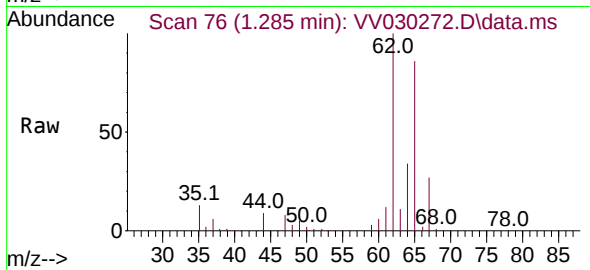




#5
 Vinyl chloride
 Concen: 4.345 ug/L
 RT: 1.285 min Scan# 76
 Delta R.T. -0.000 min
 Lab File: VV030272.D
 Acq: 21 Mar 2023 12:01

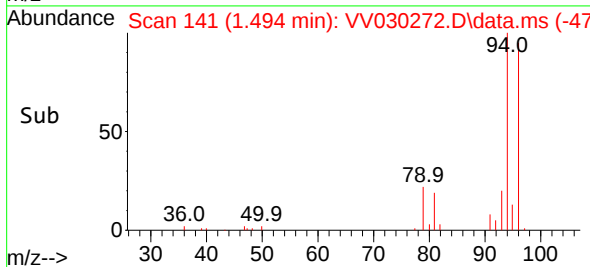
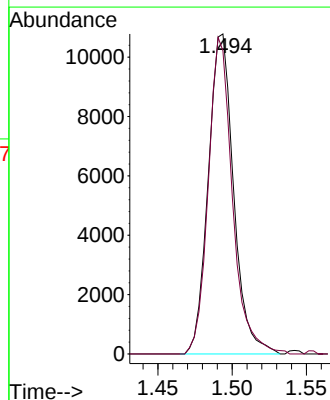
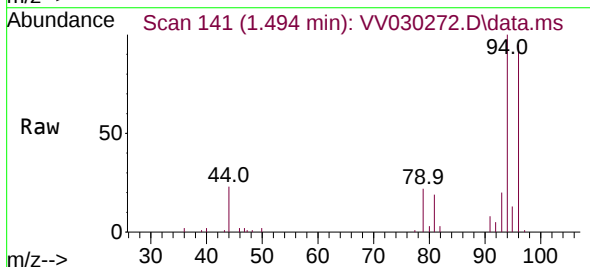
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 MSVOA_V
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 VSTD005310

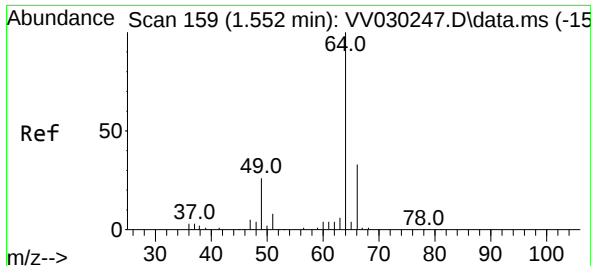
Tgt Ion: 62 Resp: 47573
 Ion Ratio Lower Upper
 62 100
 64 34.4 23.1 42.9



#6
 Bromomethane
 Concen: 6.523 ug/L
 RT: 1.494 min Scan# 141
 Delta R.T. 0.003 min
 Lab File: VV030272.D
 Acq: 21 Mar 2023 12:01

Tgt Ion: 94 Resp: 12820
 Ion Ratio Lower Upper
 94 100
 96 94.8 68.4 127.0





#8

Chloroethane

Concen: 4.671 ug/L

RT: 1.555 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

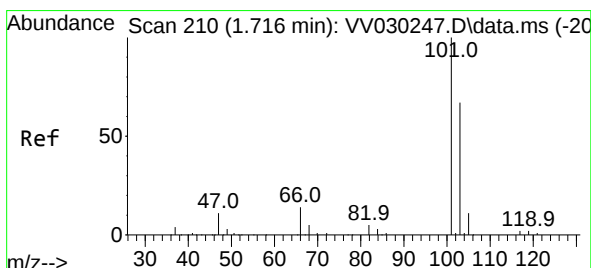
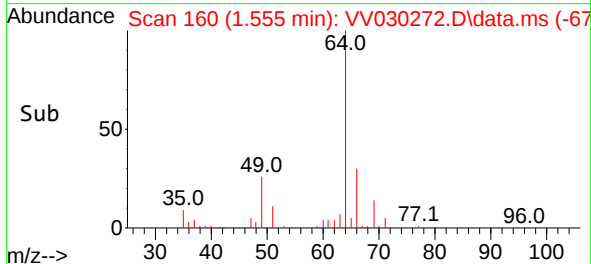
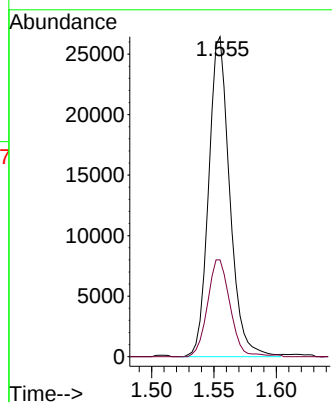
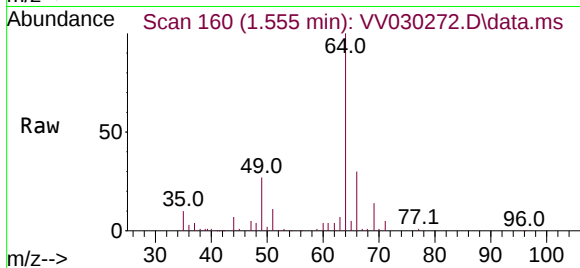
VSTD005310

Tgt Ion: 64 Resp: 31160

Ion Ratio Lower Upper

64 100

66 30.2 22.4 41.6



#9

Trichlorofluoromethane

Concen: 5.451 ug/L

RT: 1.719 min Scan# 211

Delta R.T. -0.000 min

Lab File: VV030272.D

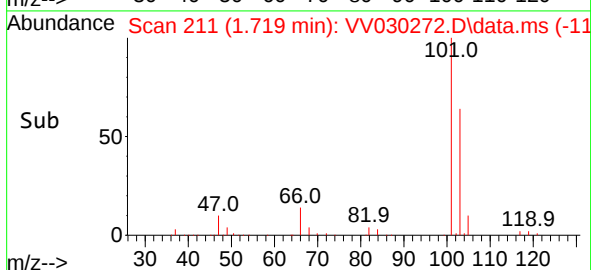
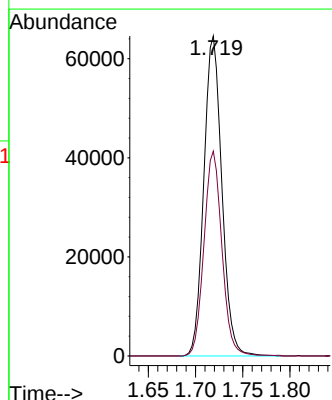
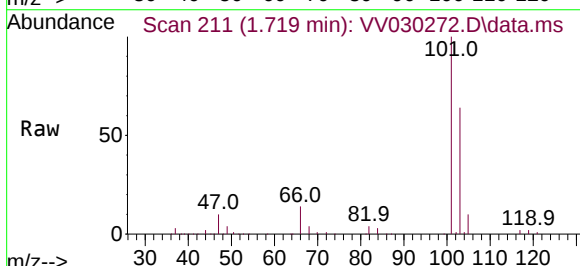
Acq: 21 Mar 2023 12:01

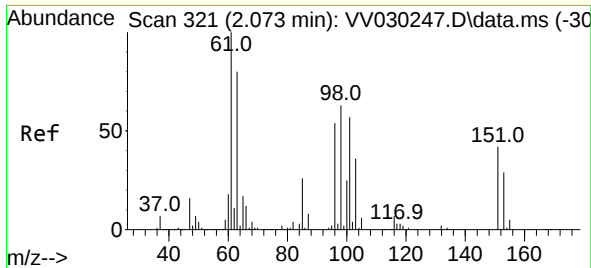
Tgt Ion:101 Resp: 85631

Ion Ratio Lower Upper

101 100

103 63.7 52.7 79.1

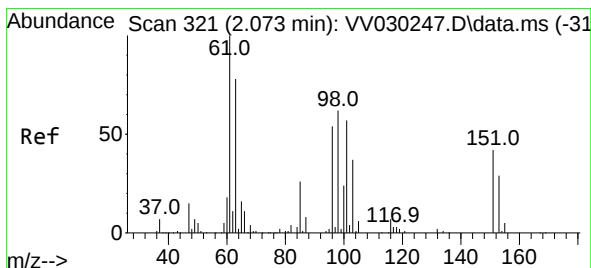
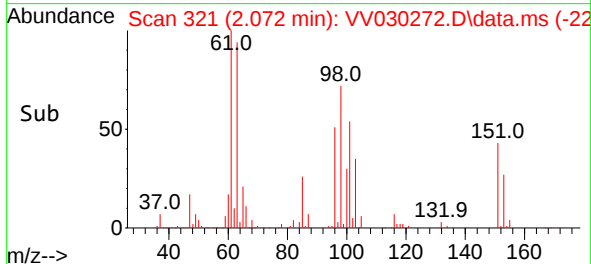
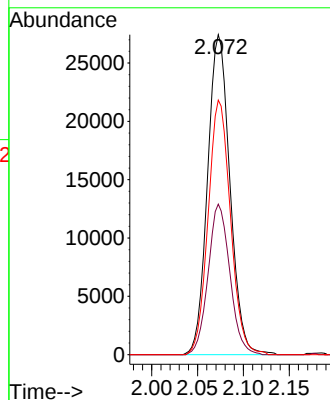
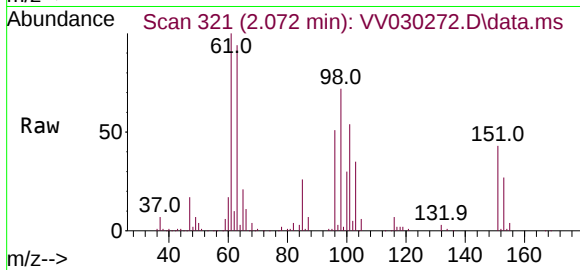




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 4.782 ug/L
 RT: 2.072 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV030272.D
 Acq: 21 Mar 2023 12:01

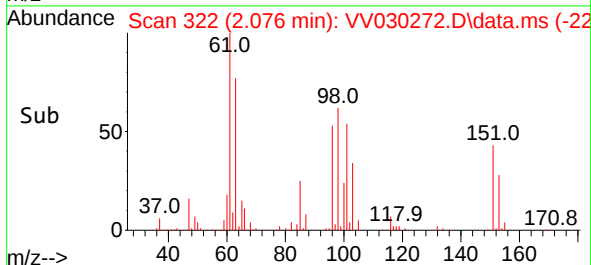
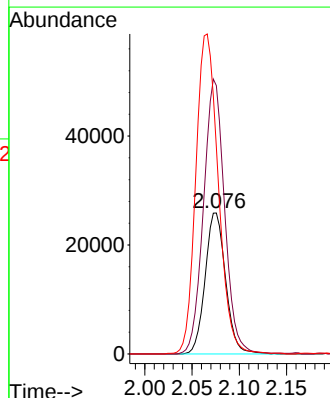
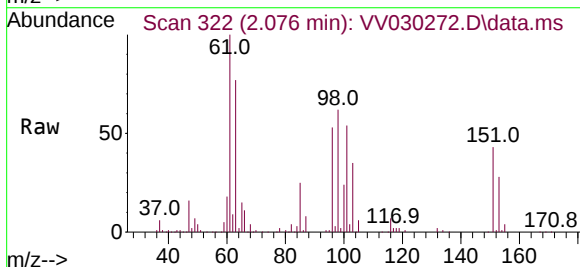
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005310

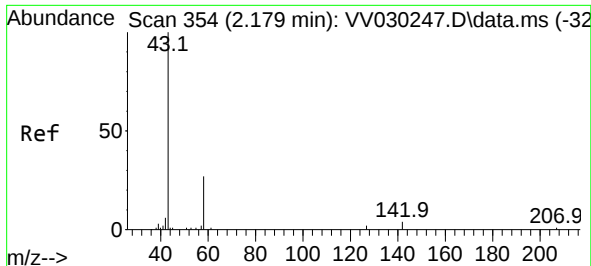
Tgt Ion:101 Resp: 46589
 Ion Ratio Lower Upper
 101 100
 85 45.7 33.5 50.3
 151 79.5 61.6 92.4



#12
 1,1-Dichloroethene
 Concen: 4.514 ug/L
 RT: 2.076 min Scan# 322
 Delta R.T. -0.000 min
 Lab File: VV030272.D
 Acq: 21 Mar 2023 12:01

Tgt Ion: 96 Resp: 38925
 Ion Ratio Lower Upper
 96 100
 61 190.4 115.6 214.6
 63 146.8 85.6 159.0





#13

Acetone

Concen: 60.136 ug/L

RT: 2.153 min Scan# 34

Delta R.T. 0.010 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

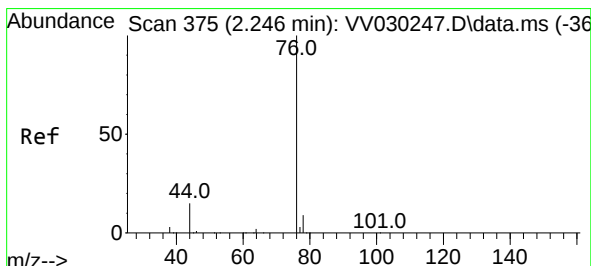
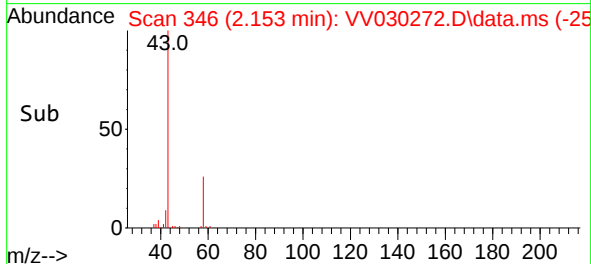
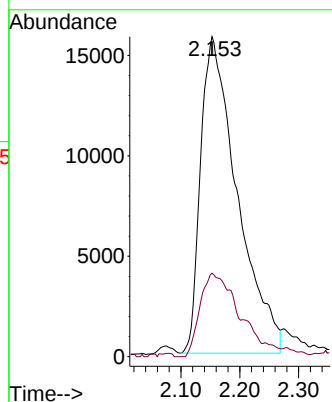
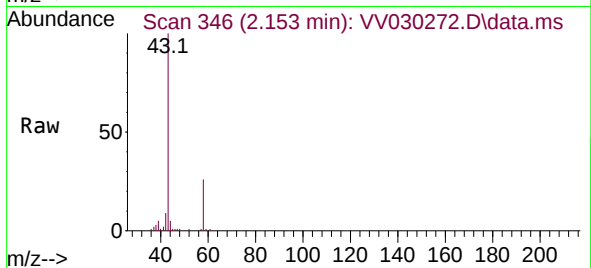
VSTD005310

Tgt Ion: 43 Resp: 68133

Ion Ratio Lower Upper

43 100

58 27.4 0.0 29.4



#14

Carbon disulfide

Concen: 3.630 ug/L

RT: 2.246 min Scan# 375

Delta R.T. 0.000 min

Lab File: VV030272.D

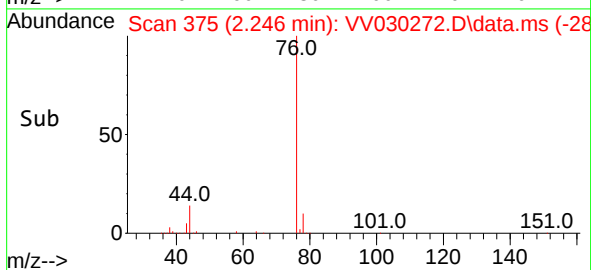
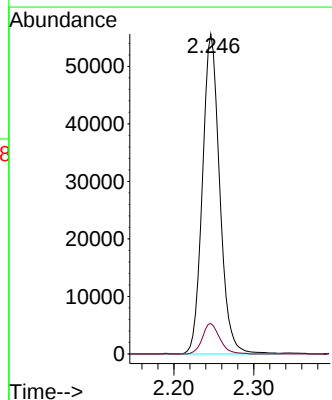
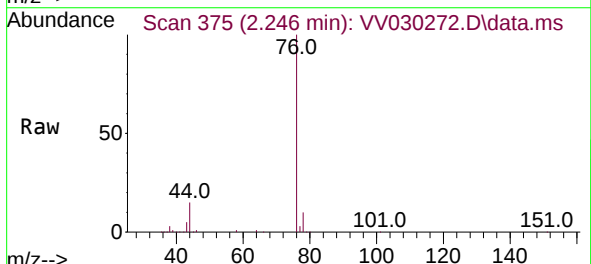
Acq: 21 Mar 2023 12:01

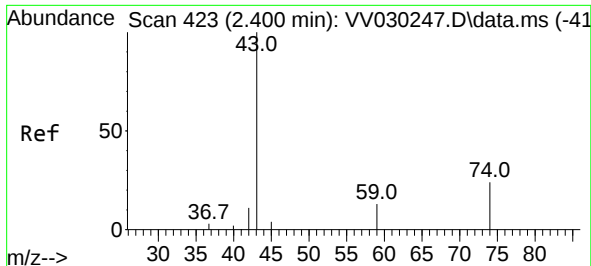
Tgt Ion: 76 Resp: 83765

Ion Ratio Lower Upper

76 100

78 9.5 7.7 11.5

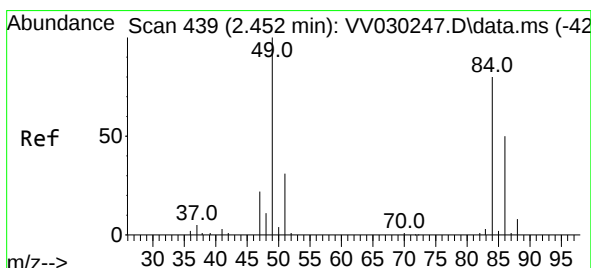
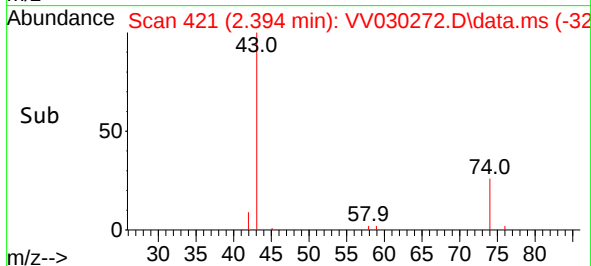
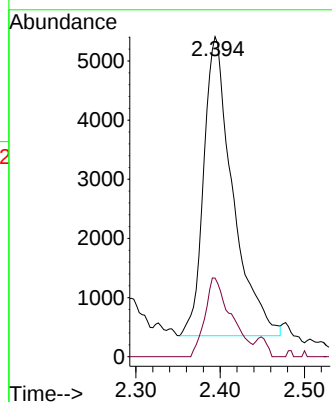
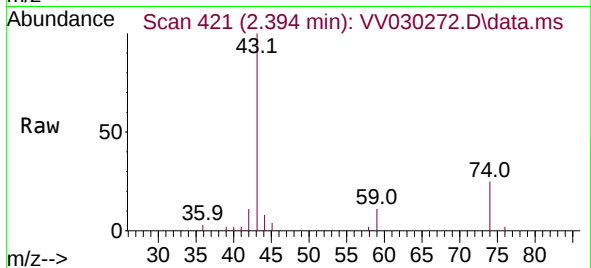




#15
Methyl Acetate
Concen: 4.573 ug/L
RT: 2.394 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

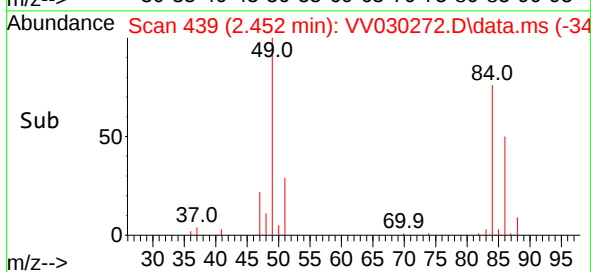
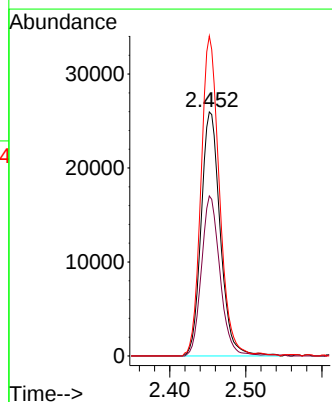
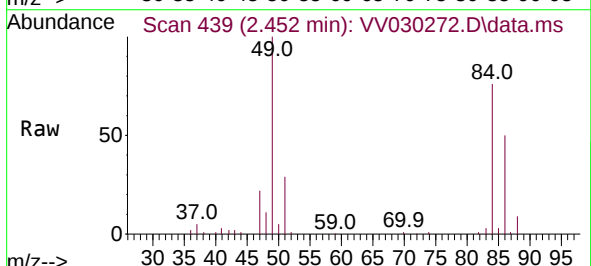
Instrument :
MSVOA_V
ClientSampleId :
VSTD005310

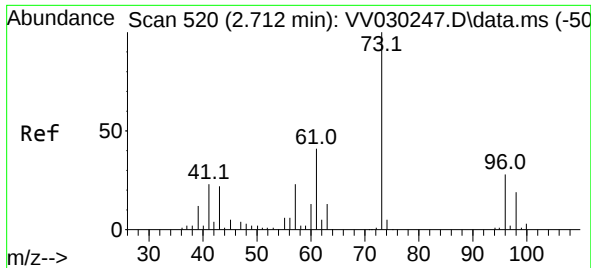
Tgt Ion: 43 Resp: 12101
Ion Ratio Lower Upper
43 100
74 24.0 20.1 30.1



#16
Methylene chloride
Concen: 4.296 ug/L
RT: 2.452 min Scan# 439
Delta R.T. 0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Tgt Ion: 84 Resp: 45260
Ion Ratio Lower Upper
84 100
86 65.6 44.7 83.1
49 131.1 78.8 146.3

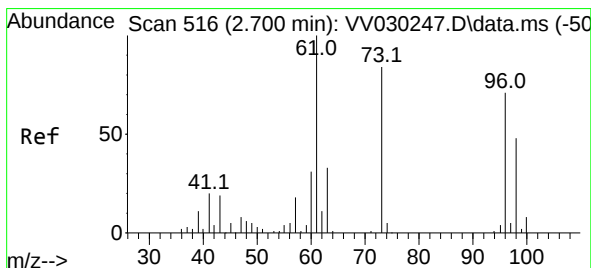
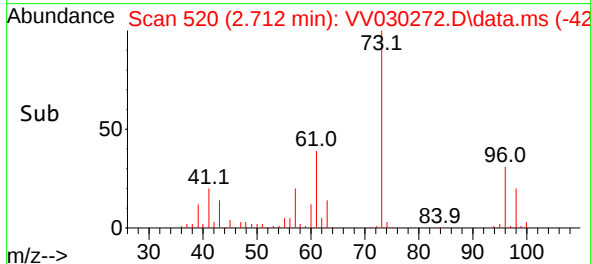
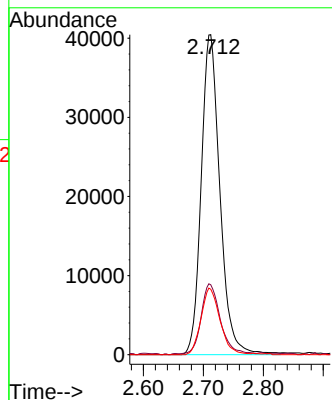
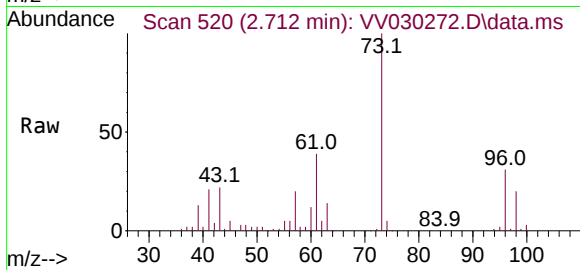




#17
Methyl tert-butyl Ether
Concen: 5.215 ug/L
RT: 2.712 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

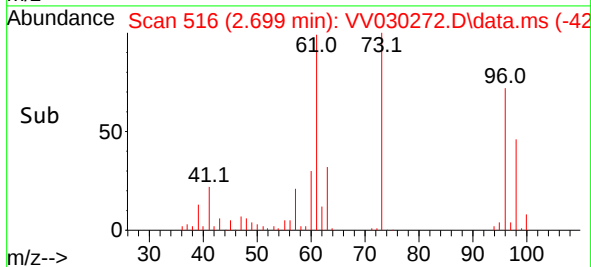
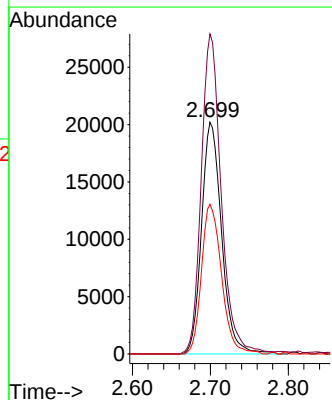
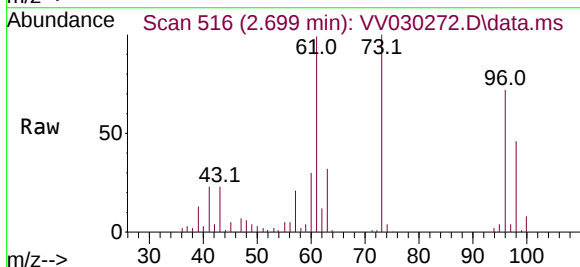
Instrument :
MSVOA_V
ClientSampleId :
VSTD005310

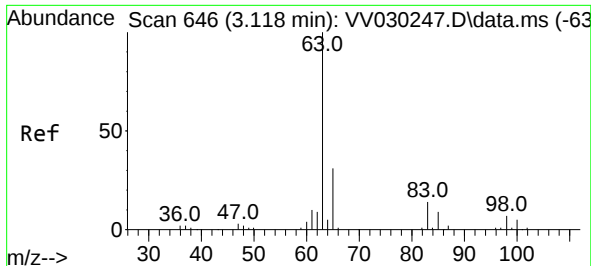
Tgt Ion: 73 Resp: 87942
Ion Ratio Lower Upper
73 100
43 21.9 13.4 20.2#
57 21.1 16.8 25.2



#18
trans-1,2-Dichloroethene
Concen: 4.415 ug/L
RT: 2.699 min Scan# 516
Delta R.T. -0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Tgt Ion: 96 Resp: 36219
Ion Ratio Lower Upper
96 100
61 138.1 91.0 169.0
98 64.6 45.2 84.0





#19

1,1-Dichloroethane

Concen: 4.865 ug/L

RT: 3.117 min Scan# 64

Delta R.T. 0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD005310

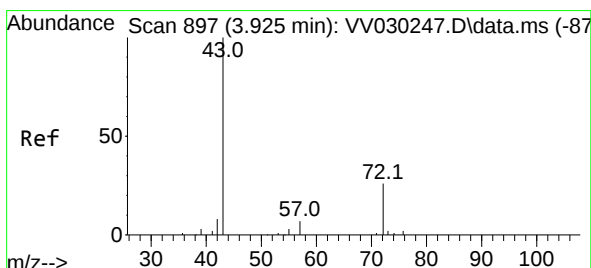
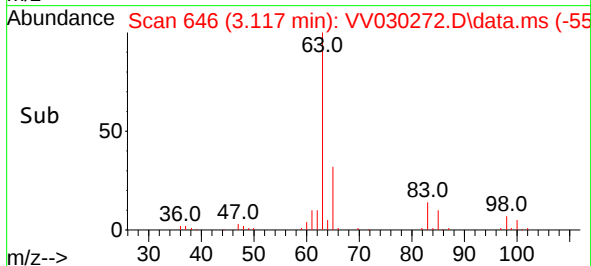
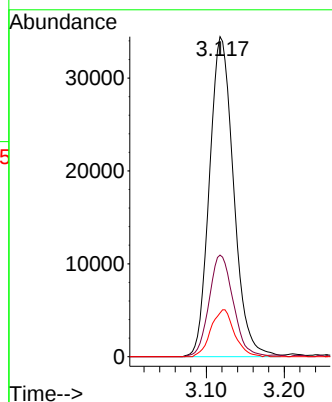
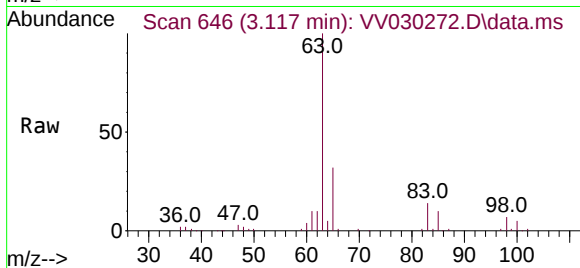
Tgt Ion: 63 Resp: 74338

Ion Ratio Lower Upper

63 100

65 31.8 23.0 42.8

83 13.7 9.6 17.8



#21

2-Butanone

Concen: 57.957 ug/L

RT: 3.905 min Scan# 891

Delta R.T. 0.010 min

Lab File: VV030272.D

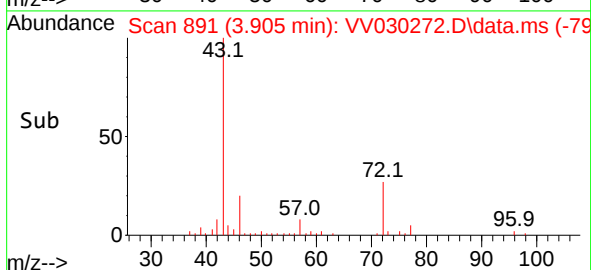
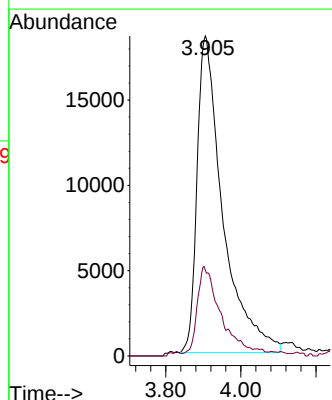
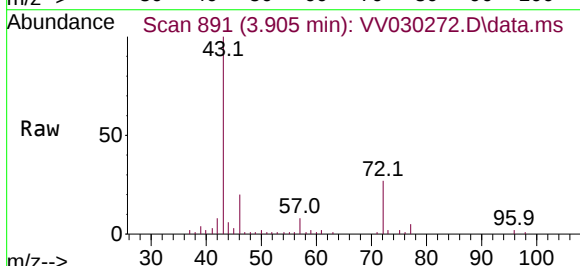
Acq: 21 Mar 2023 12:01

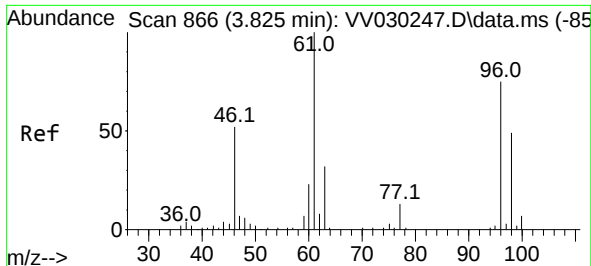
Tgt Ion: 43 Resp: 88311

Ion Ratio Lower Upper

43 100

72 24.0 15.1 45.3

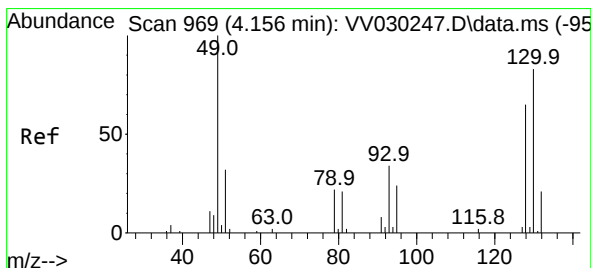
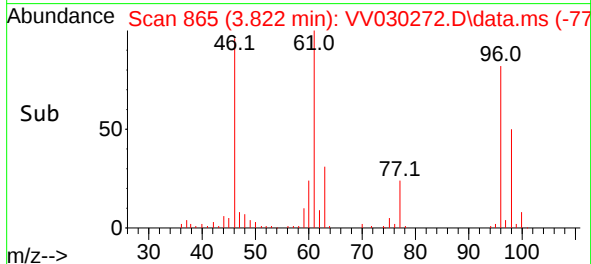
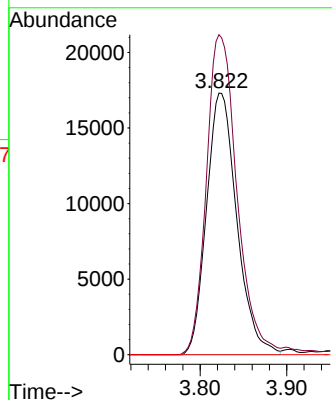
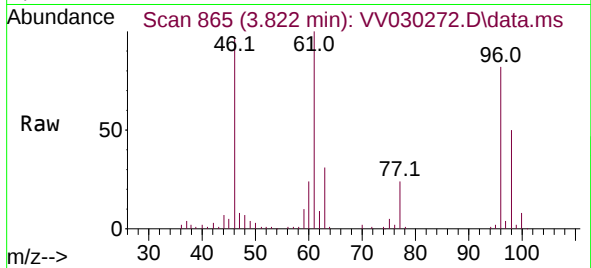




#22
 cis-1,2-Dichloroethene
 Concen: 4.642 ug/L
 RT: 3.822 min Scan# 866
 Delta R.T. 0.000 min
 Lab File: VV030272.D
 Acq: 21 Mar 2023 12:01

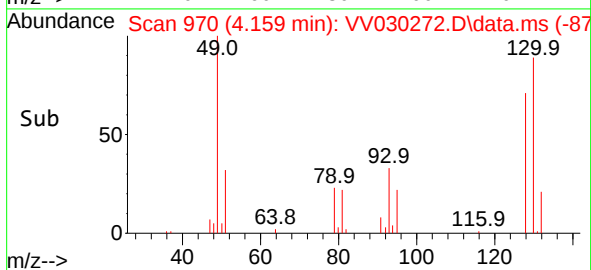
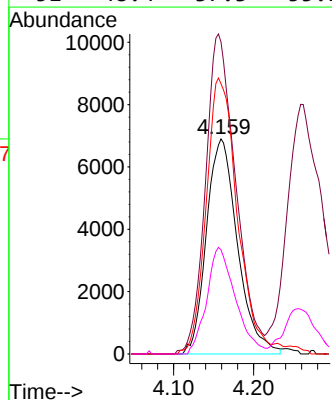
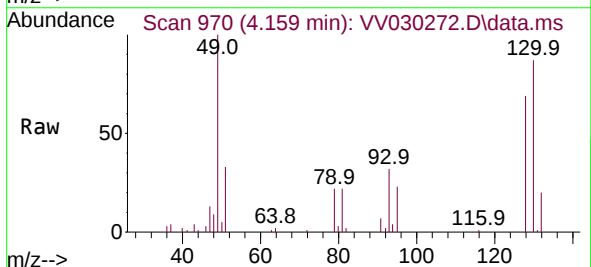
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005310

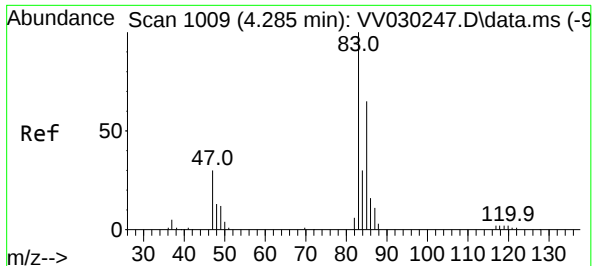
Tgt Ion: 96 Resp: 42092
 Ion Ratio Lower Upper
 96 100
 61 122.3 83.4 154.8
 68 0.0 0.0 0.0



#23
 Bromochloromethane
 Concen: 4.806 ug/L
 RT: 4.159 min Scan# 970
 Delta R.T. 0.003 min
 Lab File: VV030272.D
 Acq: 21 Mar 2023 12:01

Tgt Ion: 128 Resp: 18623
 Ion Ratio Lower Upper
 128 100
 49 145.1 99.5 184.9
 130 125.7 90.5 168.1
 51 48.4 37.3 55.9





#25

Chloroform

Concen: 5.225 ug/L

RT: 4.285 min Scan# 1009

Delta R.T. -0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

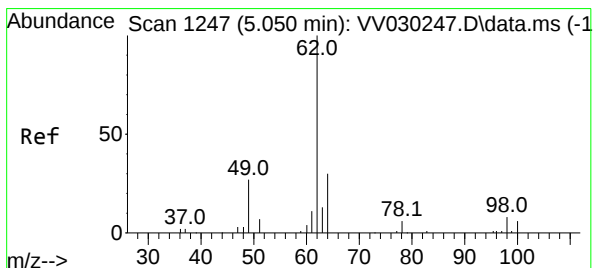
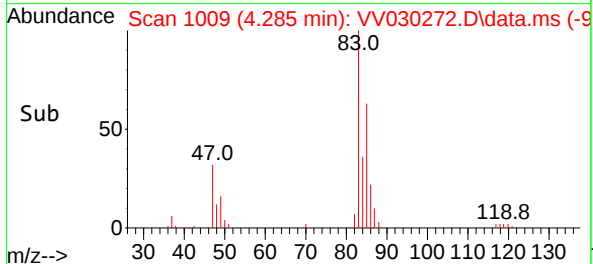
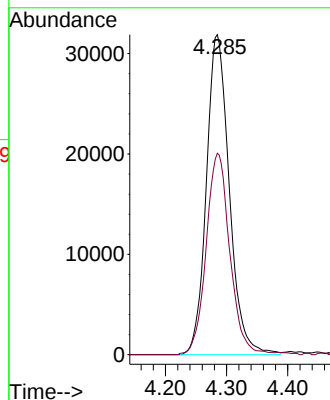
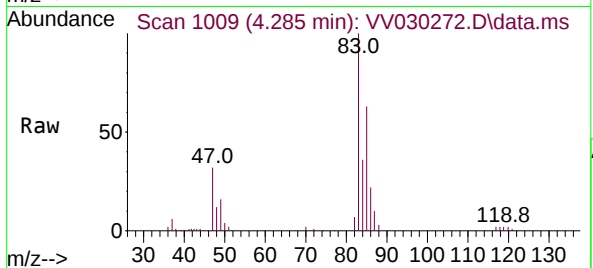
VSTD005310

Tgt Ion: 83 Resp: 83065

Ion Ratio Lower Upper

83 100

85 62.9 46.5 86.5



#27

1,2-Dichloroethane

Concen: 6.257 ug/L

RT: 5.050 min Scan# 1247

Delta R.T. 0.000 min

Lab File: VV030272.D

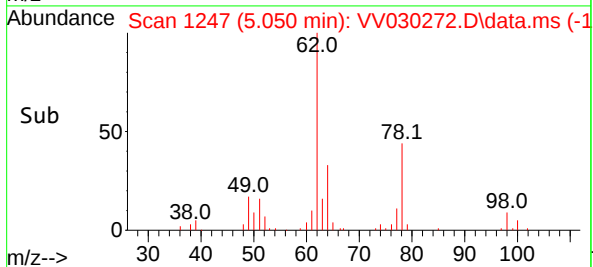
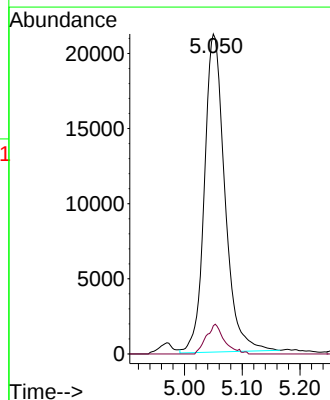
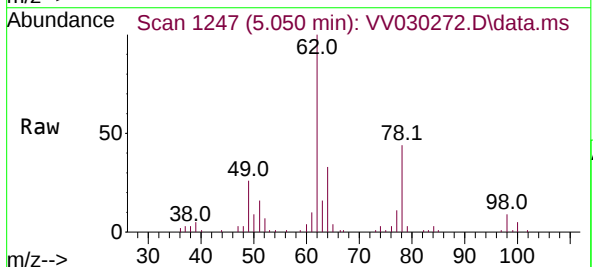
Acq: 21 Mar 2023 12:01

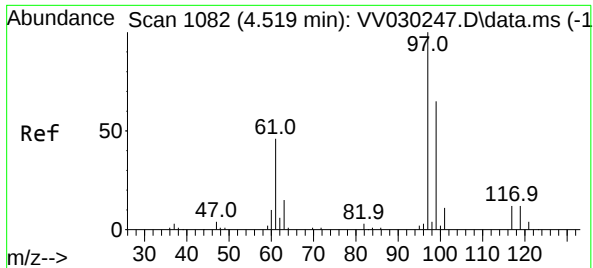
Tgt Ion: 62 Resp: 52025

Ion Ratio Lower Upper

62 100

98 8.8 9.0 13.4#





#29

1,1,1-Trichloroethane

Concen: 5.481 ug/L

RT: 4.519 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD005310

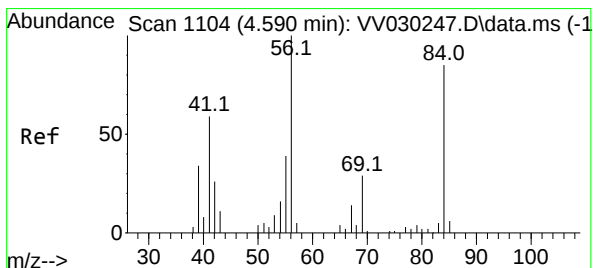
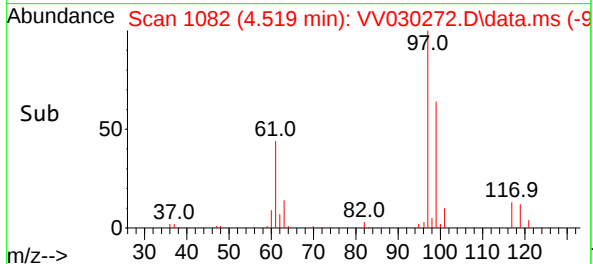
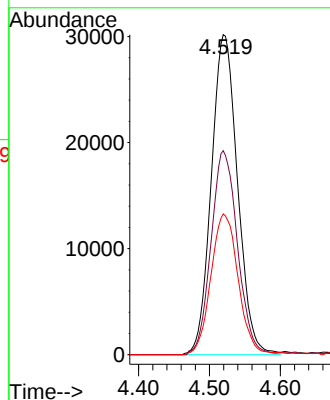
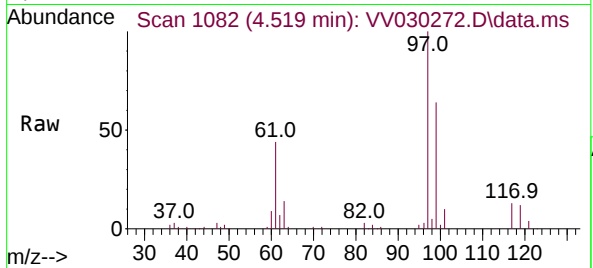
Tgt Ion: 97 Resp: 77546

Ion Ratio Lower Upper

97 100

99 64.2 51.3 76.9

61 45.6 31.5 47.3



#30

Cyclohexane

Concen: 4.402 ug/L

RT: 4.590 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

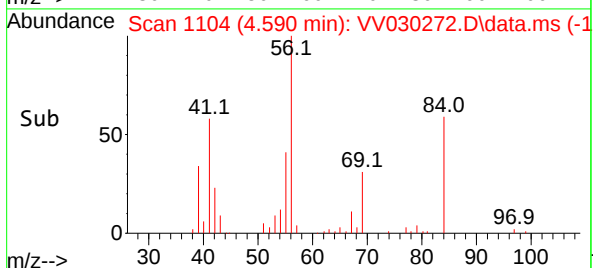
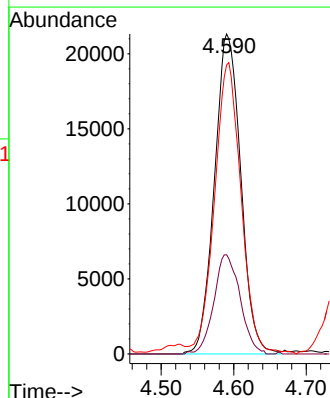
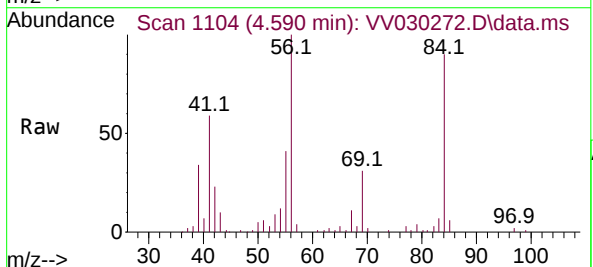
Tgt Ion: 56 Resp: 53810

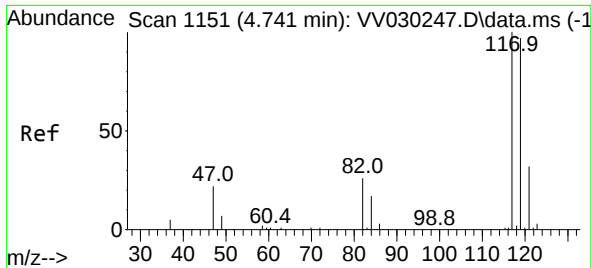
Ion Ratio Lower Upper

56 100

69 30.9 25.1 37.7

84 89.5 74.6 111.8

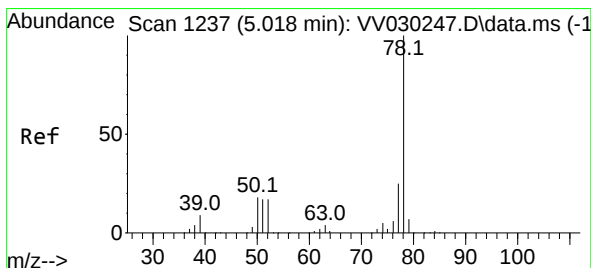
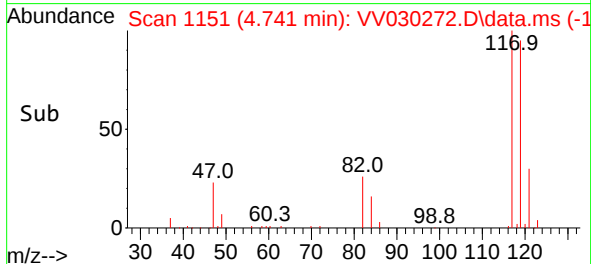
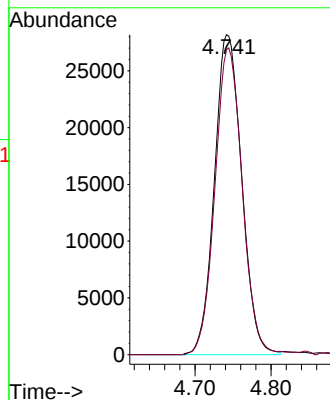
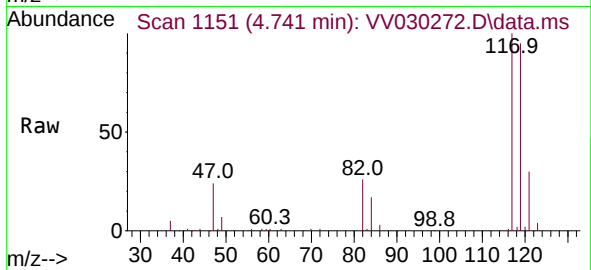




#31
Carbon tetrachloride
Concen: 5.533 ug/L
RT: 4.741 min Scan# 1151
Delta R.T. -0.003 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

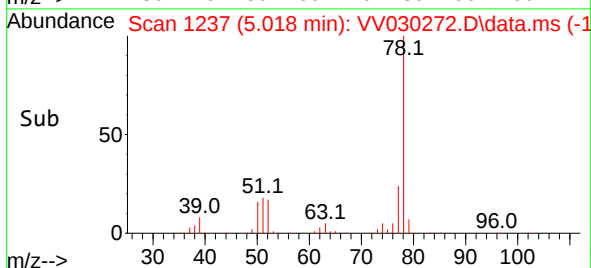
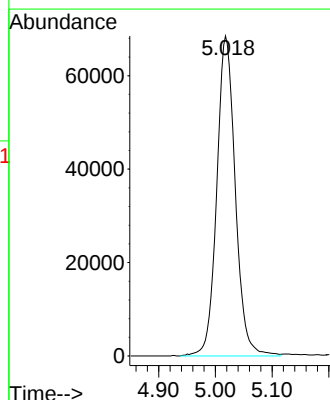
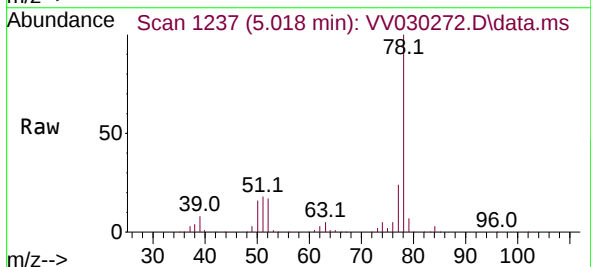
Instrument :
MSVOA_V
ClientSampleId :
VSTD005310

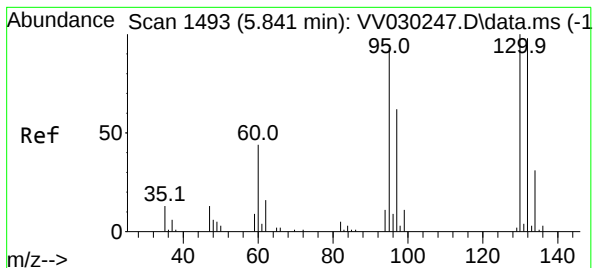
Tgt Ion:117 Resp: 70357
Ion Ratio Lower Upper
117 100
119 95.7 76.1 114.1



#33
Benzene
Concen: 4.735 ug/L
RT: 5.018 min Scan# 1237
Delta R.T. -0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Tgt Ion: 78 Resp: 155743





#34

Trichloroethene

Concen: 4.443 ug/L

RT: 5.841 min Scan# 14

Delta R.T. 0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD005310

Tgt Ion: 95 Resp: 40954

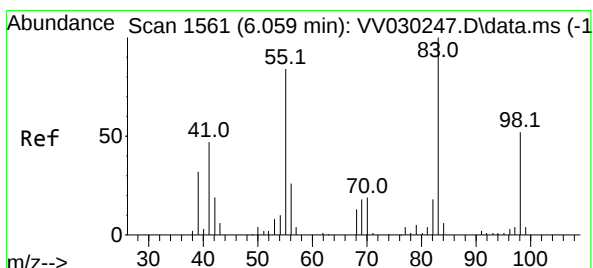
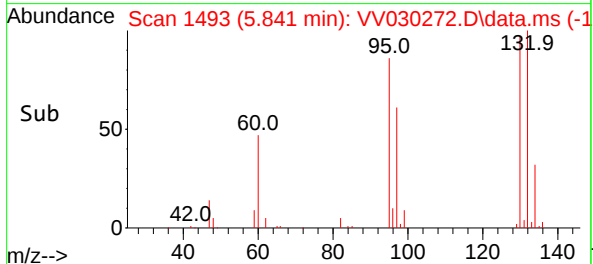
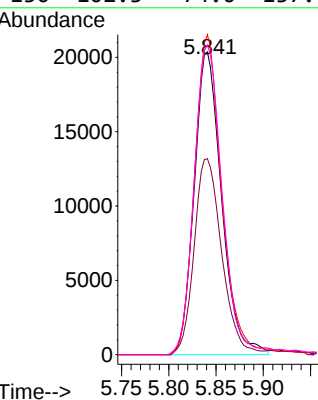
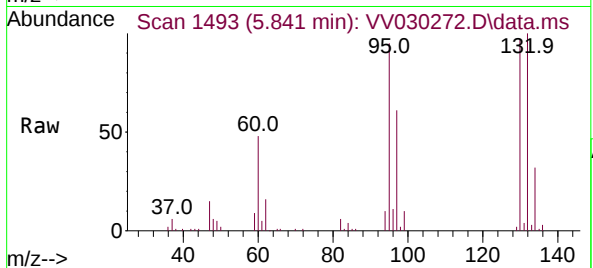
Ion Ratio Lower Upper

95 100

97 64.7 46.5 86.5

132 105.7 71.7 133.3

130 102.3 74.0 137.4



#35

Methylcyclohexane

Concen: 4.182 ug/L

RT: 6.056 min Scan# 1560

Delta R.T. -0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

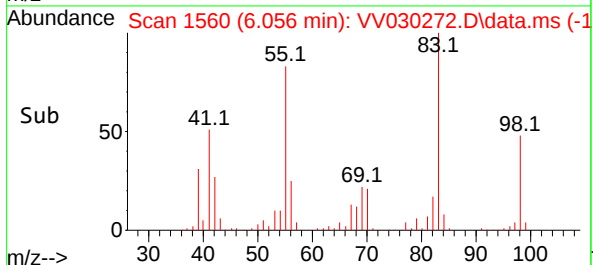
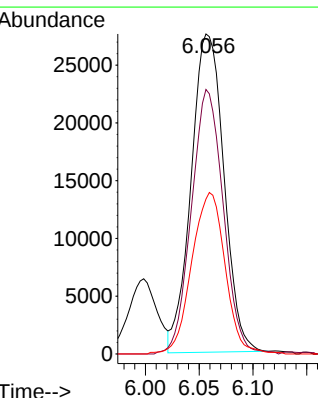
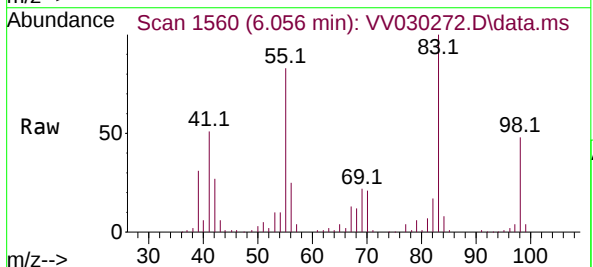
Tgt Ion: 83 Resp: 58337

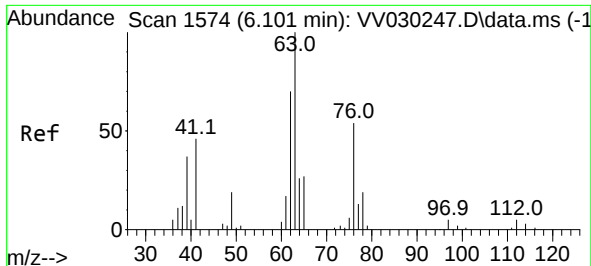
Ion Ratio Lower Upper

83 100

55 81.0 57.6 86.4

98 51.8 38.8 58.2





#37

1,2-Dichloropropane

Concen: 4.660 ug/L

RT: 6.101 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

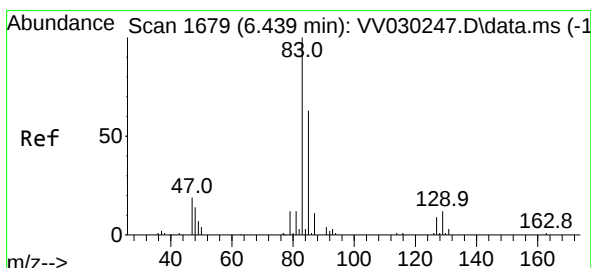
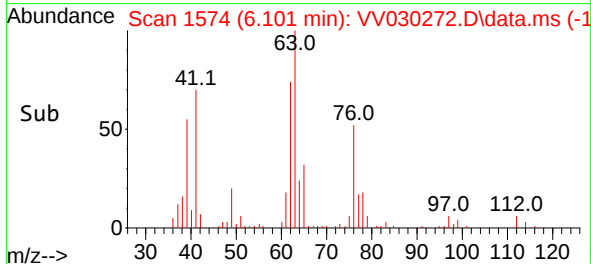
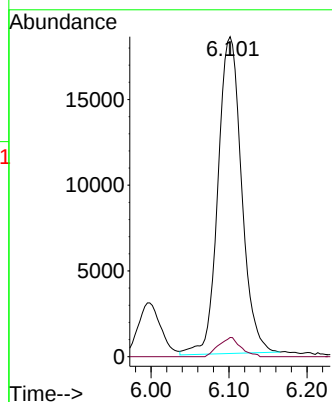
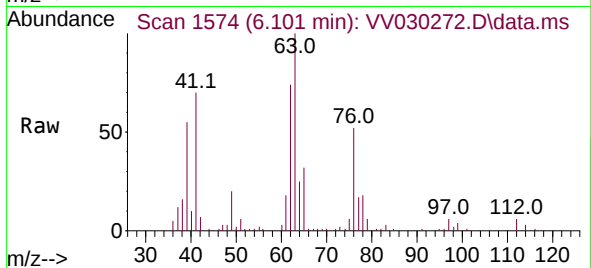
VSTD005310

Tgt Ion: 63 Resp: 38994

Ion Ratio Lower Upper

63 100

112 5.6 3.8 5.6



#38

Bromodichloromethane

Concen: 5.344 ug/L

RT: 6.439 min Scan# 1679

Delta R.T. -0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

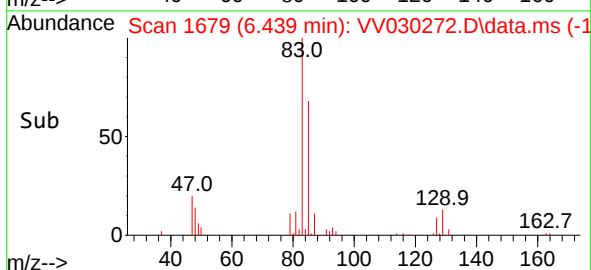
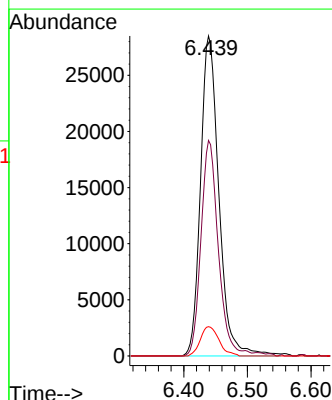
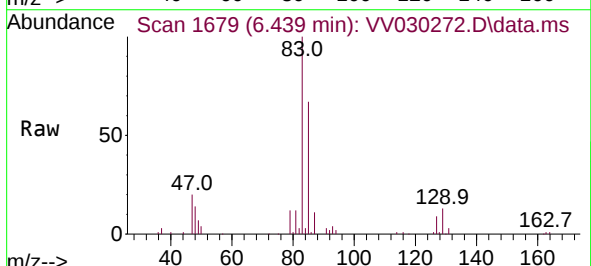
Tgt Ion: 83 Resp: 57085

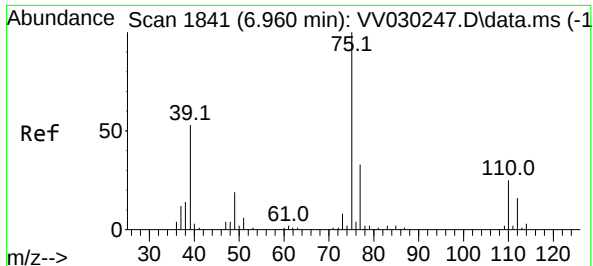
Ion Ratio Lower Upper

83 100

85 67.3 44.3 82.3

127 9.1 7.2 10.8





#39

cis-1,3-Dichloropropene

Concen: 4.786 ug/L

RT: 6.960 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

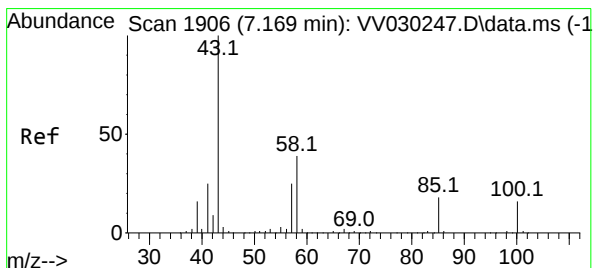
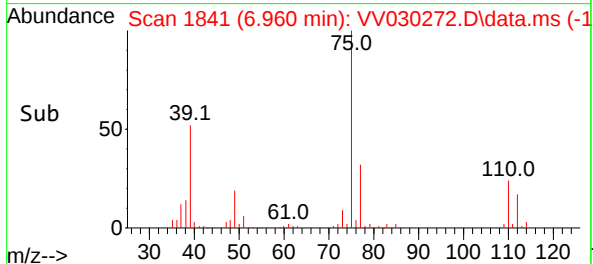
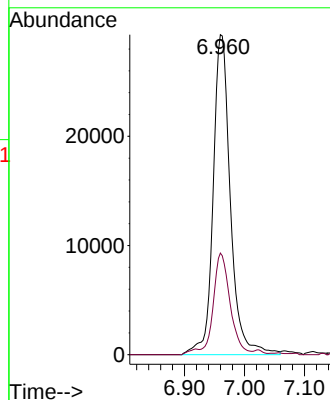
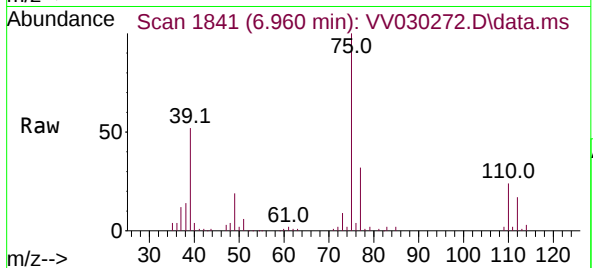
VSTD005310

Tgt Ion: 75 Resp: 58630

Ion Ratio Lower Upper

75 100

77 31.7 22.3 41.3



#40

4-Methyl-2-pentanone

Concen: 60.662 ug/L

RT: 7.166 min Scan# 1905

Delta R.T. 0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

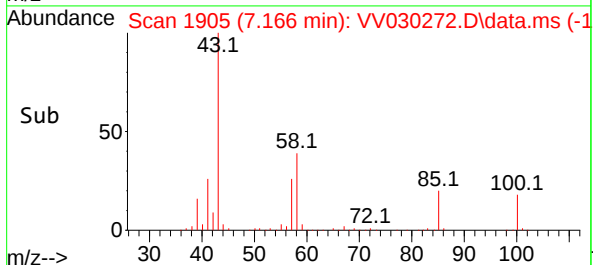
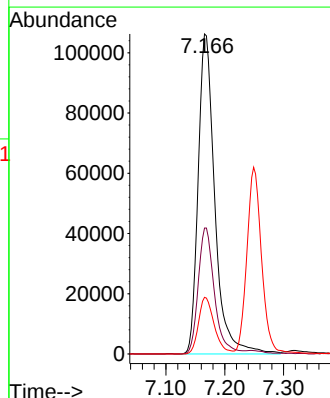
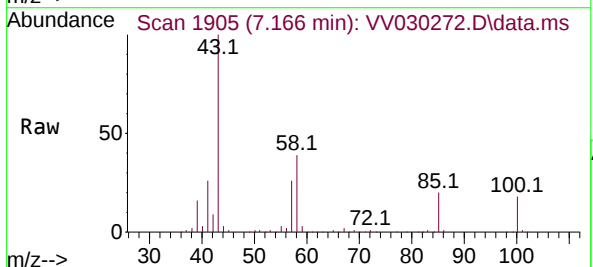
Tgt Ion: 43 Resp: 209475

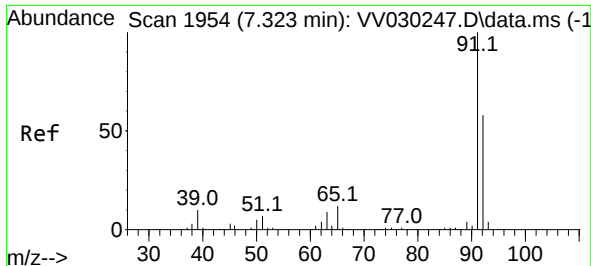
Ion Ratio Lower Upper

43 100

58 38.2 35.3 52.9

100 16.7 14.7 22.1





#42

Toluene

Concen: 4.929 ug/L

RT: 7.323 min Scan# 1954

Delta R.T. 0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

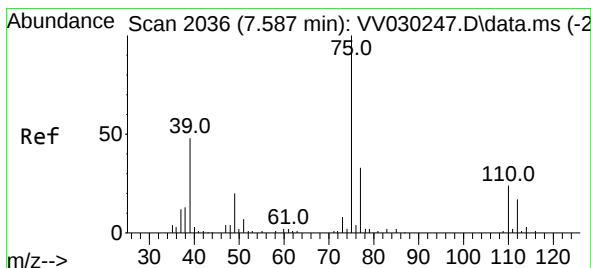
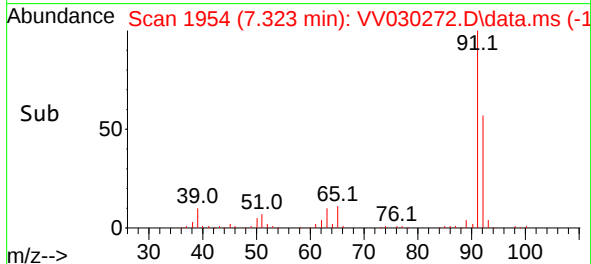
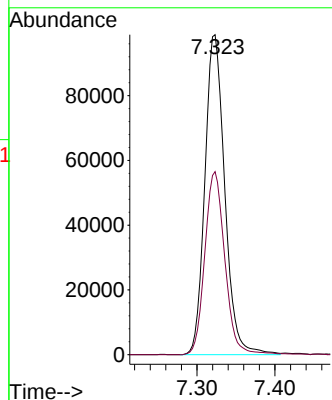
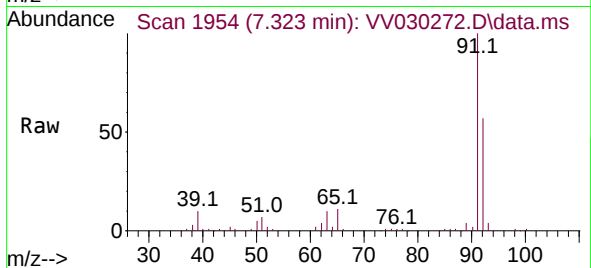
VSTD005310

Tgt Ion: 91 Resp: 175594

Ion Ratio Lower Upper

91 100

92 57.2 39.6 73.6



#44

trans-1,3-Dichloropropene

Concen: 5.320 ug/L

RT: 7.587 min Scan# 2036

Delta R.T. -0.000 min

Lab File: VV030272.D

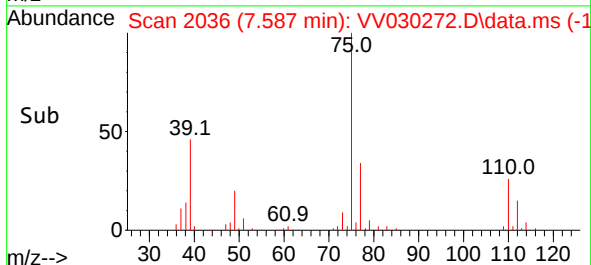
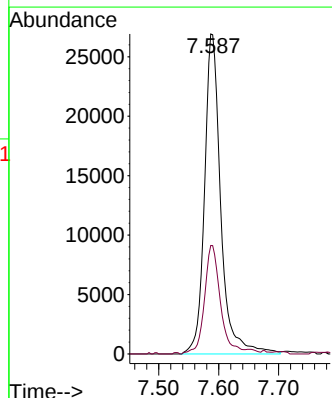
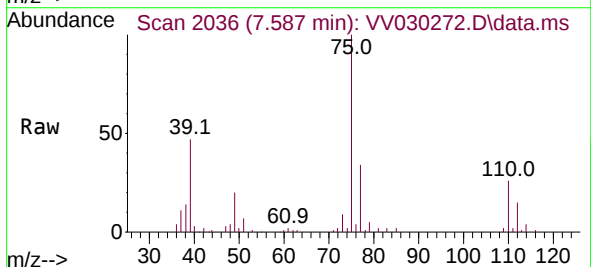
Acq: 21 Mar 2023 12:01

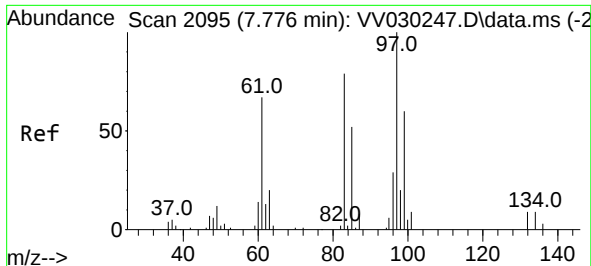
Tgt Ion: 75 Resp: 50877

Ion Ratio Lower Upper

75 100

77 33.9 22.1 41.1



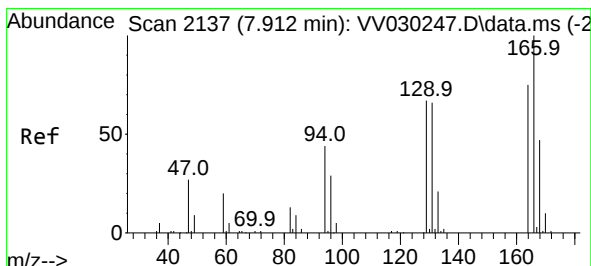
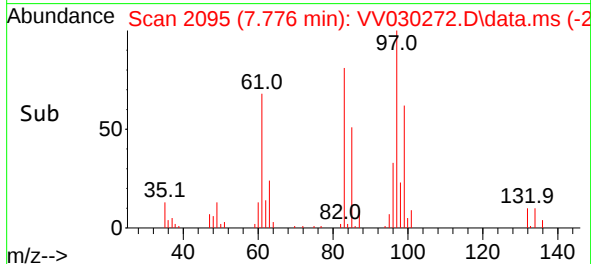
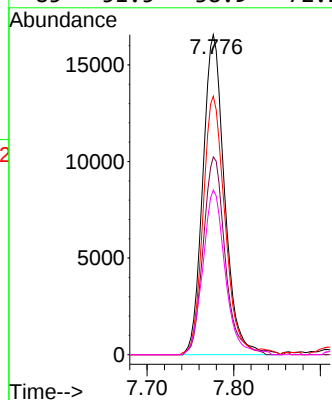
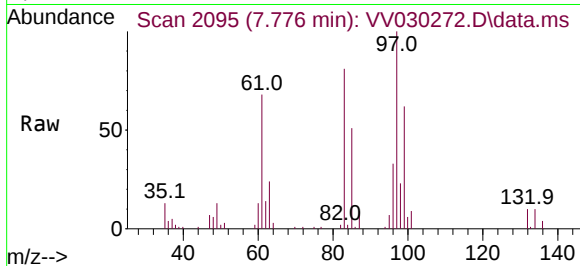


#45
1,1,2-Trichloroethane
Concen: 4.841 ug/L
RT: 7.776 min Scan# 2095
Delta R.T. -0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Instrument :
MSVOA_V
ClientSampleId :
VSTD005310

Tgt Ion: 97 Resp: 28987

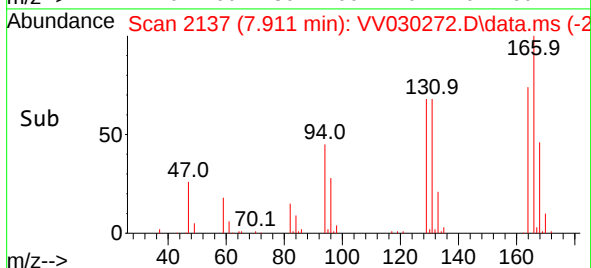
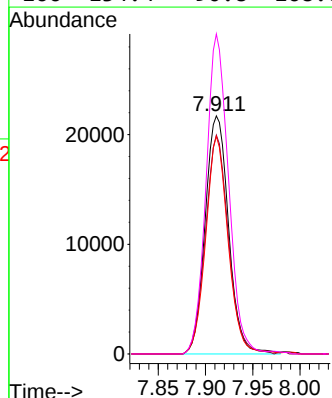
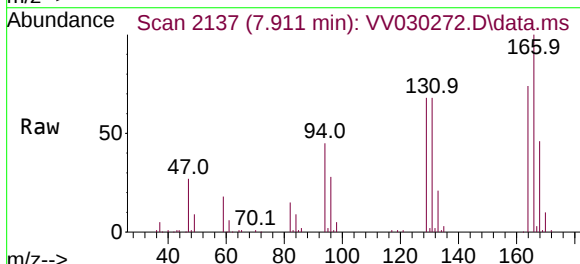
Ion	Ratio	Lower	Upper
97	100		
99	61.8	42.6	79.2
83	80.8	57.7	107.3
85	51.5	38.9	72.2

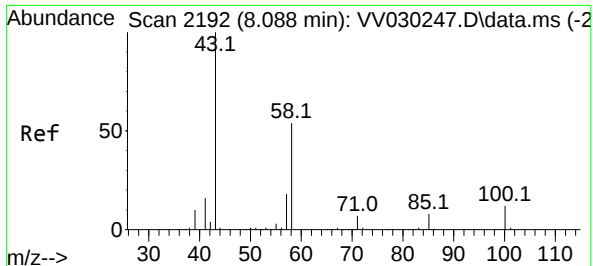


#47
Tetrachloroethene
Concen: 4.736 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Tgt Ion: 164 Resp: 37467

Ion	Ratio	Lower	Upper
164	100		
129	91.9	63.6	118.2
131	91.4	61.7	114.7
166	134.4	90.8	168.6

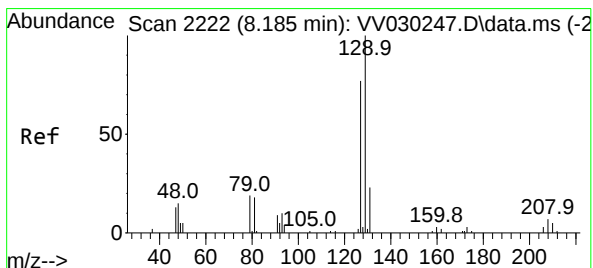
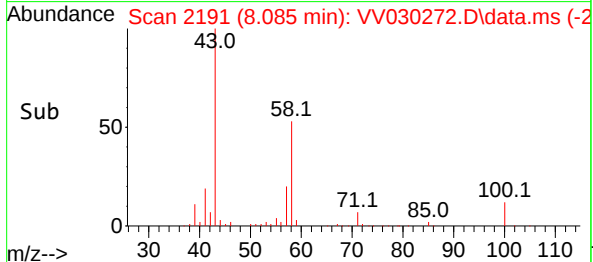
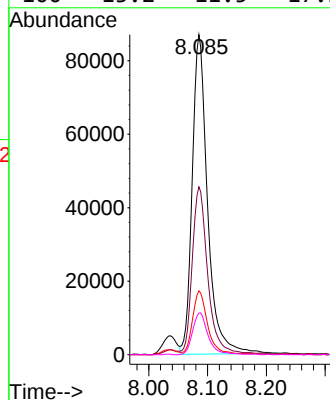
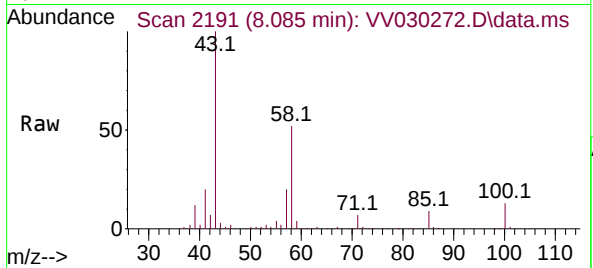




#48
2-Hexanone
Concen: 63.791 ug/L
RT: 8.085 min Scan# 2192
Delta R.T. 0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

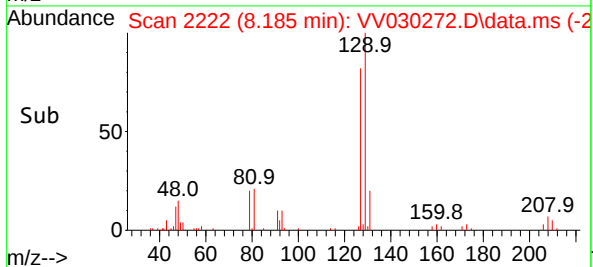
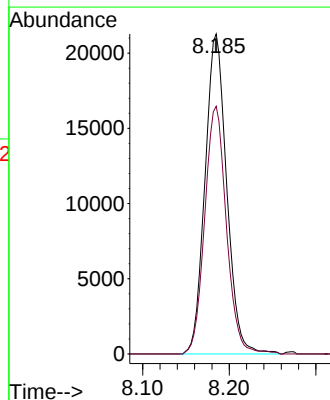
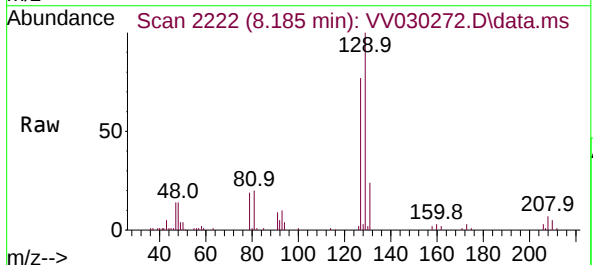
Instrument :
MSVOA_V
ClientSampleId :
VSTD005310

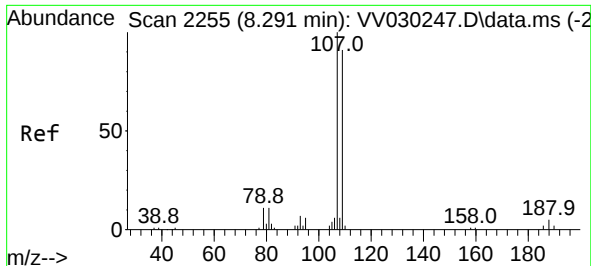
Tgt Ion: 43 Resp: 157697
Ion Ratio Lower Upper
43 100
58 52.1 49.8 74.8
57 18.7 16.6 24.8
100 13.2 11.5 17.3



#49
Dibromochloromethane
Concen: 5.283 ug/L
RT: 8.185 min Scan# 2222
Delta R.T. 0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Tgt Ion: 129 Resp: 37020
Ion Ratio Lower Upper
129 100
127 77.4 54.7 101.5





#50

1,2-Dibromoethane

Concen: 4.734 ug/L

RT: 8.291 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD005310

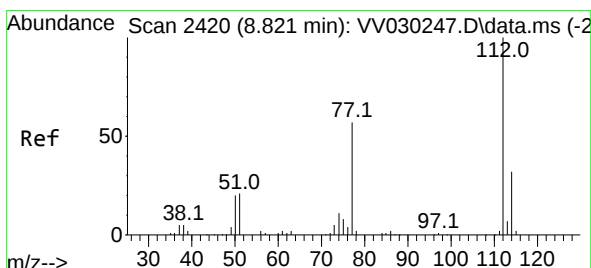
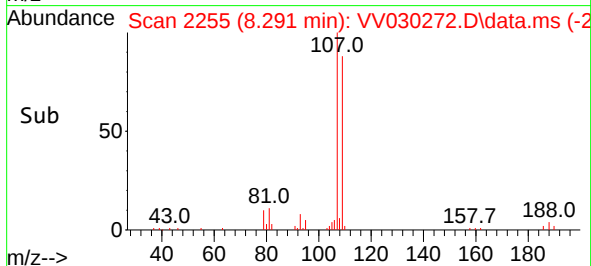
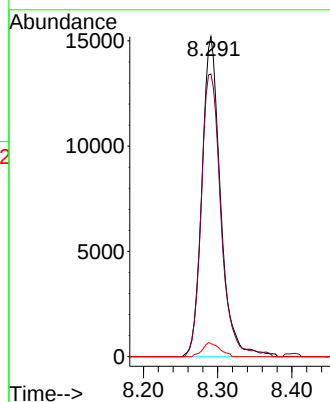
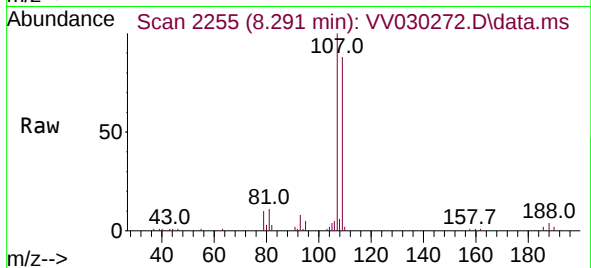
Tgt Ion:107 Resp: 26447

Ion Ratio Lower Upper

107 100

109 88.3 63.3 117.7

188 4.1 3.0 4.6



#51

Chlorobenzene

Concen: 4.855 ug/L

RT: 8.821 min Scan# 2420

Delta R.T. 0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

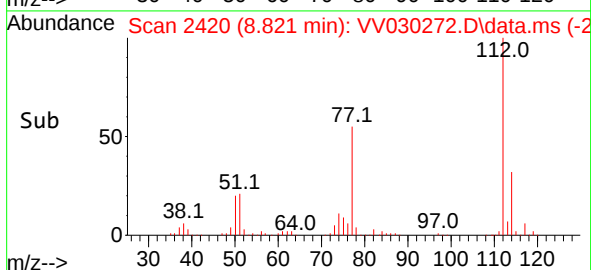
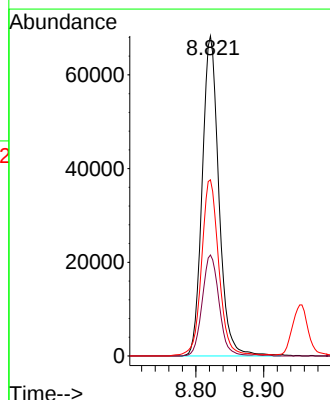
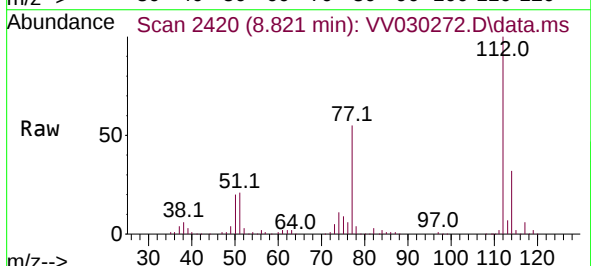
Tgt Ion:112 Resp: 116652

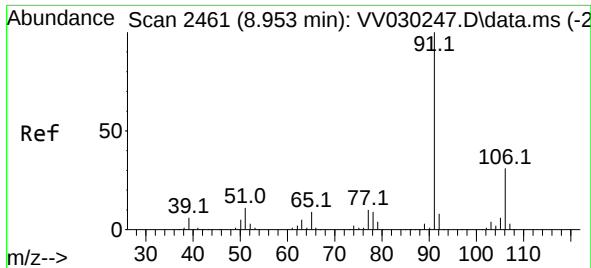
Ion Ratio Lower Upper

112 100

114 31.5 22.5 41.7

77 55.1 45.3 67.9

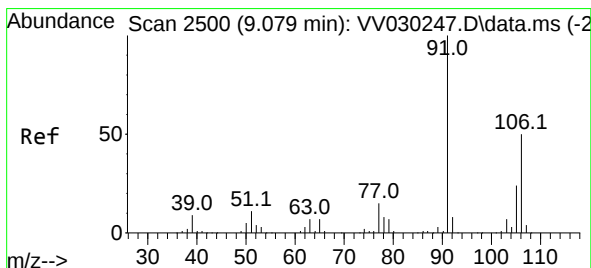
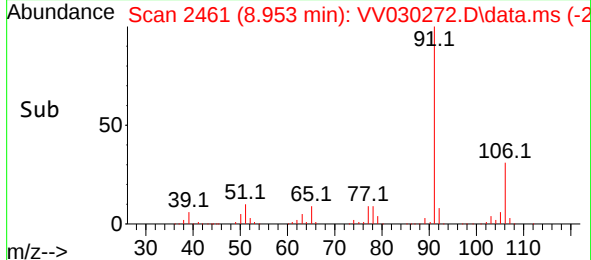
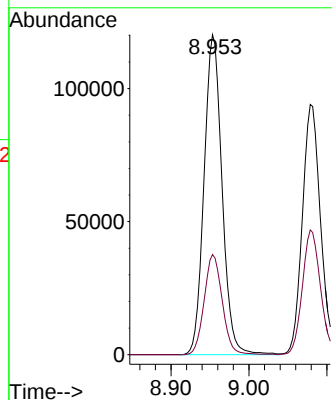
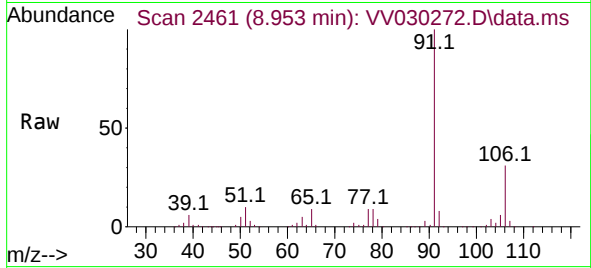




#52
Ethylbenzene
Concen: 4.976 ug/L
RT: 8.953 min Scan# 2461
Delta R.T. -0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

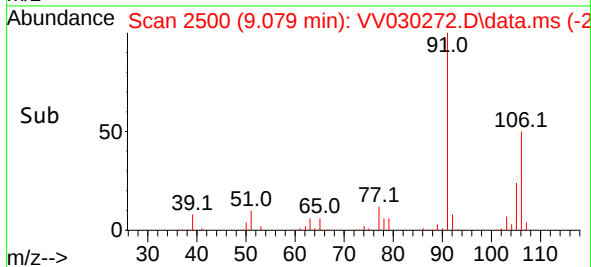
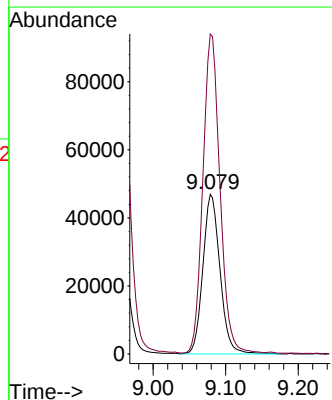
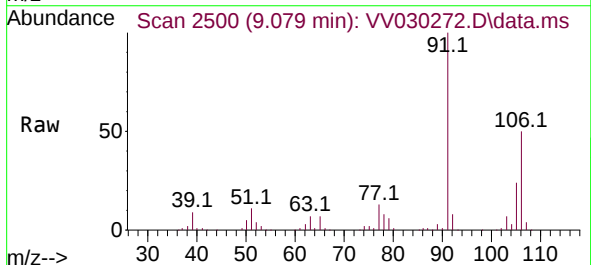
Instrument :
MSVOA_V
ClientSampleId :
VSTD005310

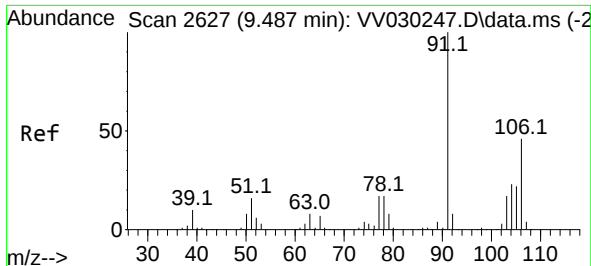
Tgt Ion: 91 Resp: 192948
Ion Ratio Lower Upper
91 100
106 31.3 22.0 40.8



#53
m,p-Xylene
Concen: 5.167 ug/L
RT: 9.079 min Scan# 2500
Delta R.T. -0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Tgt Ion: 106 Resp: 76997
Ion Ratio Lower Upper
106 100
91 200.5 142.5 264.7

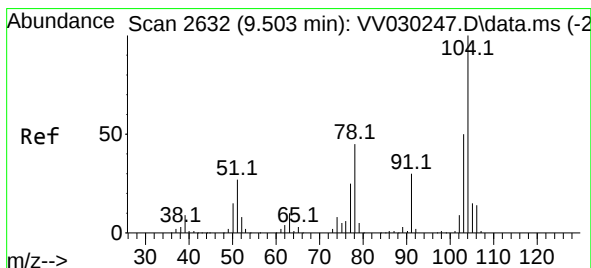
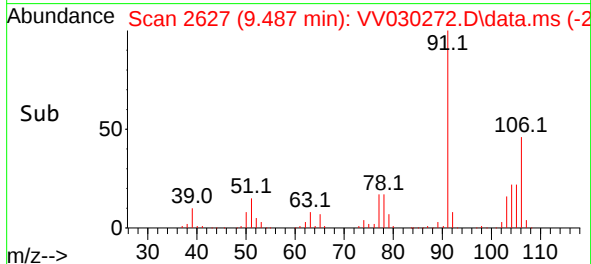
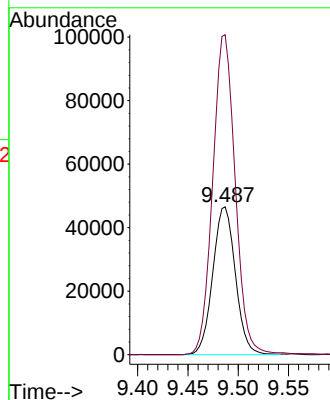
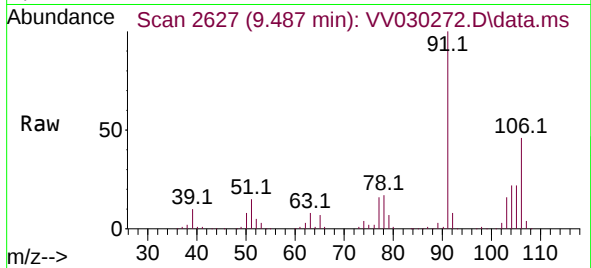




#54
o-Xylene
Concen: 5.128 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. 0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

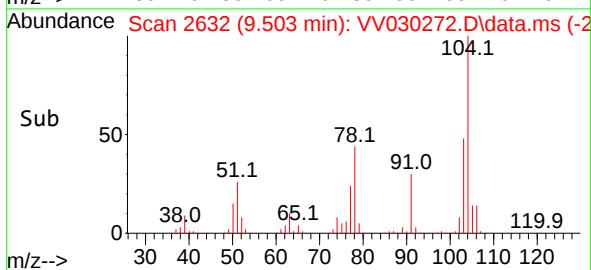
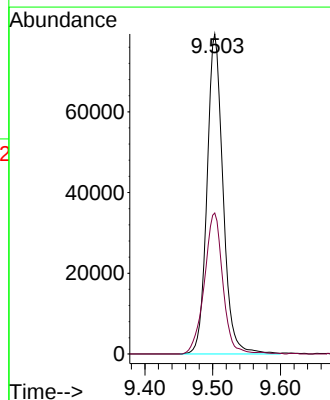
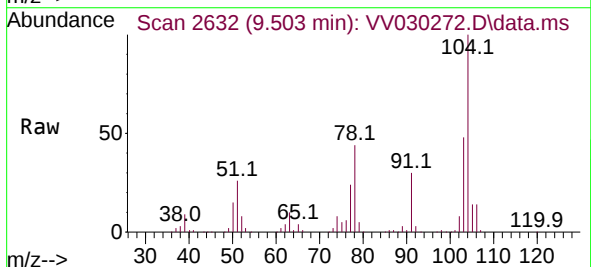
Instrument :
MSVOA_V
ClientSampleId :
VSTD005310

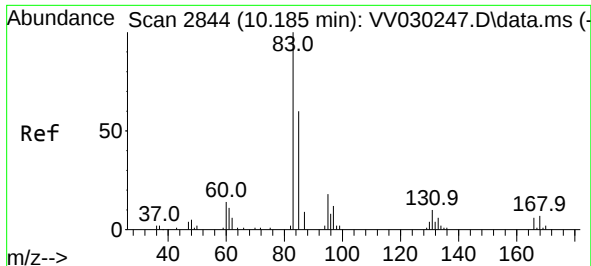
Tgt Ion:106 Resp: 72997
Ion Ratio Lower Upper
106 100
91 216.5 148.8 276.4



#55
Styrene
Concen: 5.487 ug/L
RT: 9.503 min Scan# 2632
Delta R.T. -0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Tgt Ion:104 Resp: 129892
Ion Ratio Lower Upper
104 100
78 44.1 31.1 57.9





#57

1,1,2,2-Tetrachloroethane

Concen: 4.930 ug/L

RT: 10.185 min Scan# 2844

Delta R.T. -0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD005310

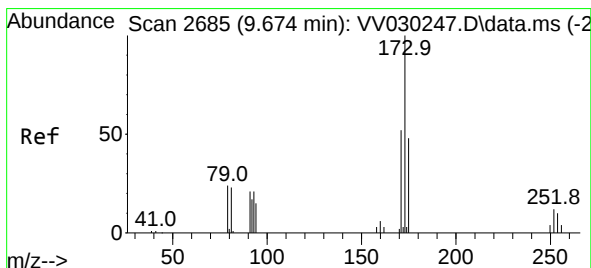
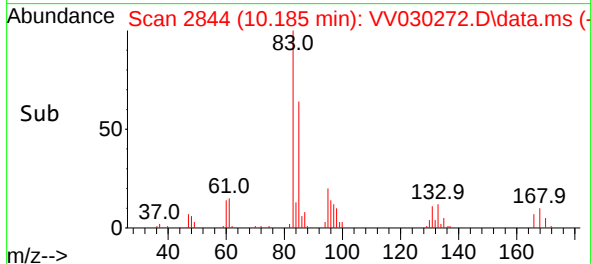
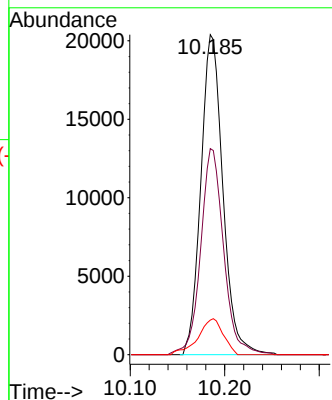
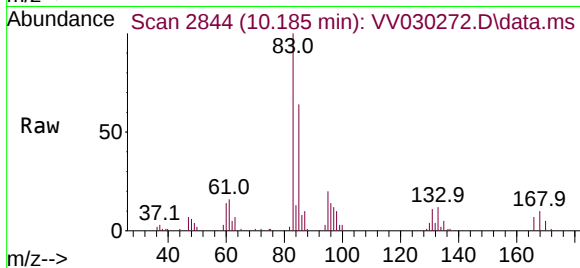
Tgt Ion: 83 Resp: 33021

Ion Ratio Lower Upper

83 100

85 64.4 45.0 83.6

131 10.8 8.2 12.4



#59

Bromoform

Concen: 5.124 ug/L

RT: 9.673 min Scan# 2685

Delta R.T. -0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

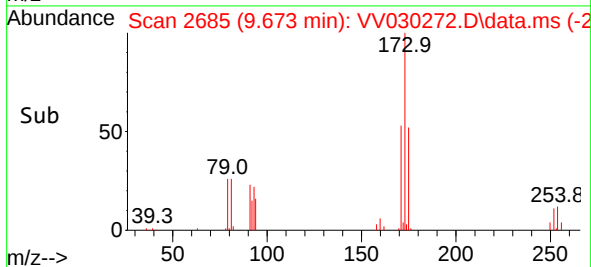
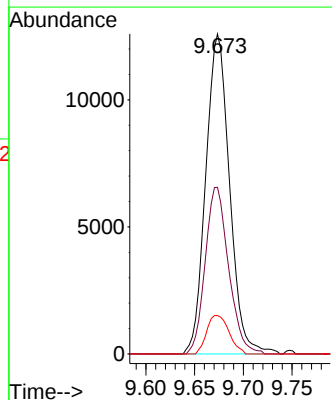
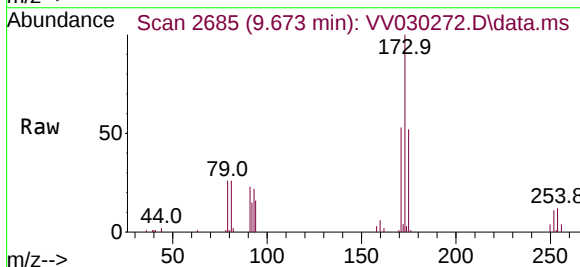
Tgt Ion: 173 Resp: 21423

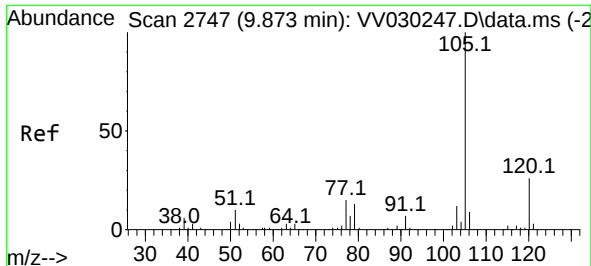
Ion Ratio Lower Upper

173 100

175 51.2 38.5 57.7

254 11.2 8.6 13.0

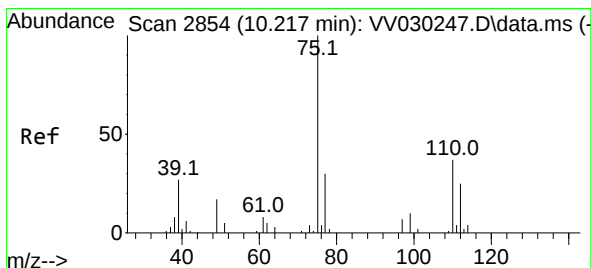
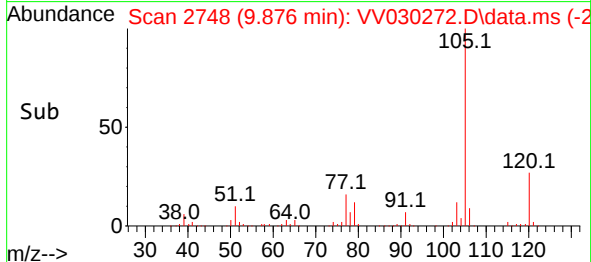
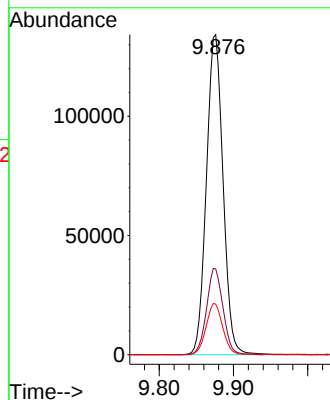
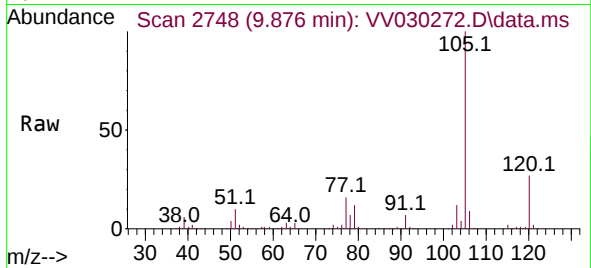




#60
Isopropylbenzene
Concen: 5.195 ug/L
RT: 9.876 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

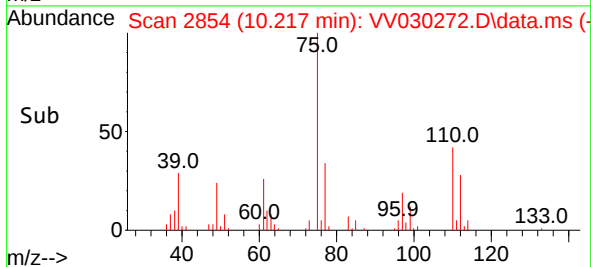
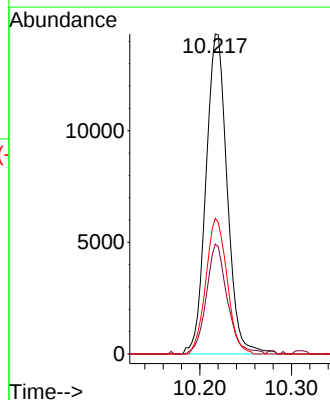
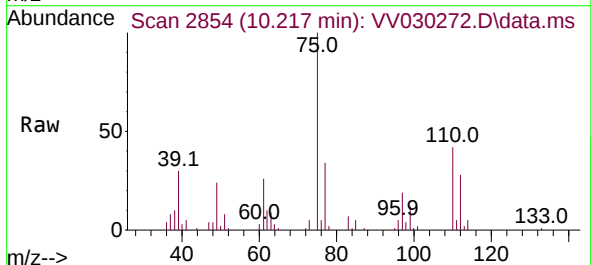
Instrument :
MSVOA_V
ClientSampleId :
VSTD005310

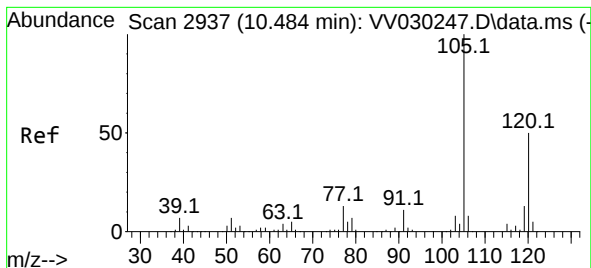
Tgt Ion:105 Resp: 208502
Ion Ratio Lower Upper
105 100
120 26.6 21.4 32.0
77 16.1 12.1 18.1



#61
1,2,3-Trichloropropane
Concen: 4.930 ug/L
RT: 10.217 min Scan# 2854
Delta R.T. -0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Tgt Ion: 75 Resp: 23017
Ion Ratio Lower Upper
75 100
77 34.1 26.5 39.7
110 42.3 31.8 47.6

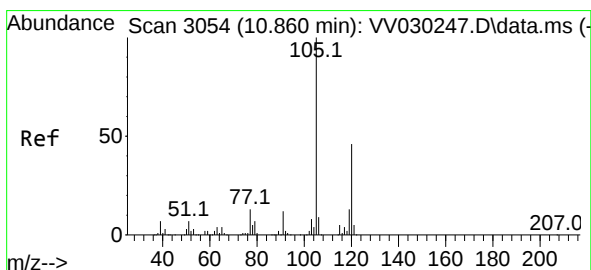
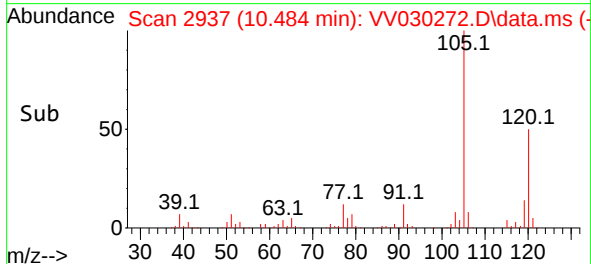
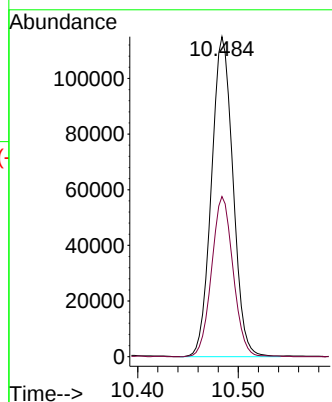
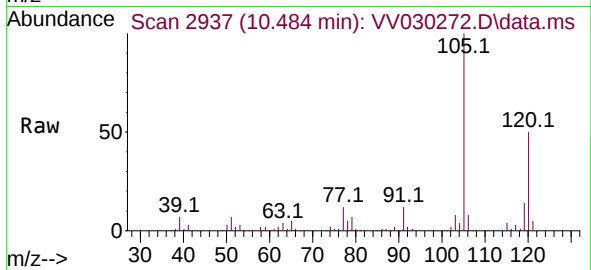




#62
1,3,5-Trimethylbenzene
Concen: 5.191 ug/L
RT: 10.484 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

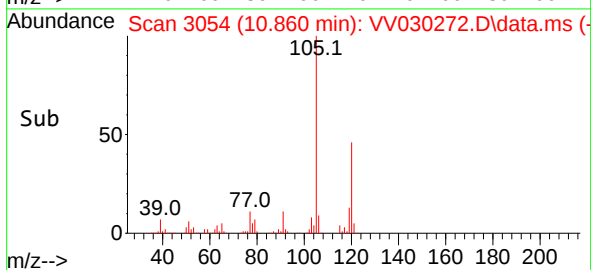
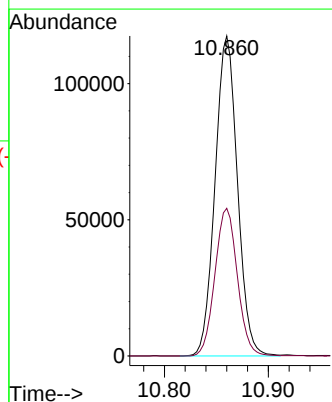
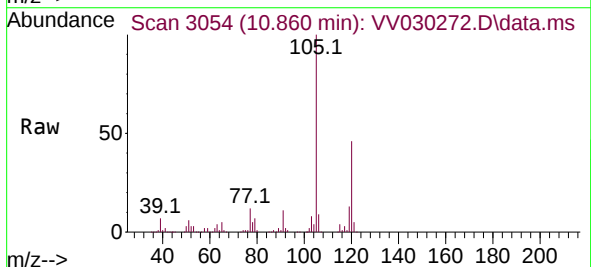
Instrument :
MSVOA_V
ClientSampleId :
VSTD005310

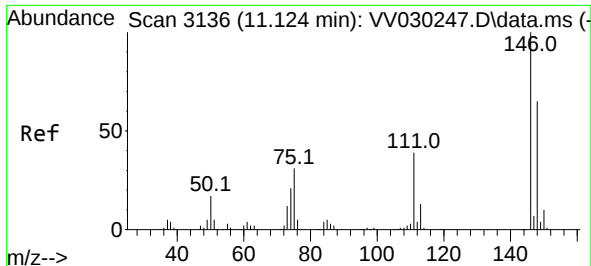
Tgt Ion:105 Resp: 171130
Ion Ratio Lower Upper
105 100
120 50.0 39.6 59.4



#63
1,2,4-Trimethylbenzene
Concen: 5.214 ug/L
RT: 10.860 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Tgt Ion:105 Resp: 175845
Ion Ratio Lower Upper
105 100
120 46.3 36.2 54.4

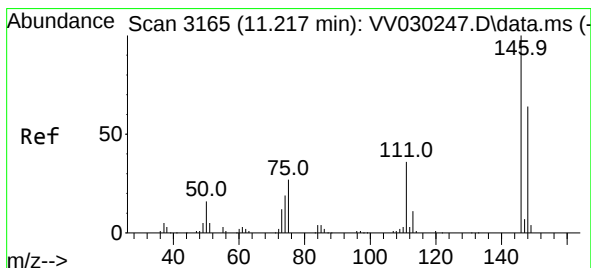
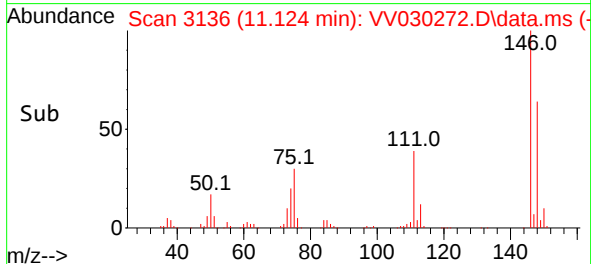
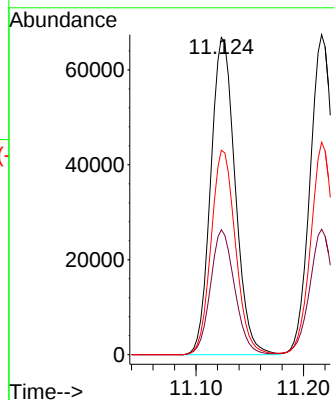
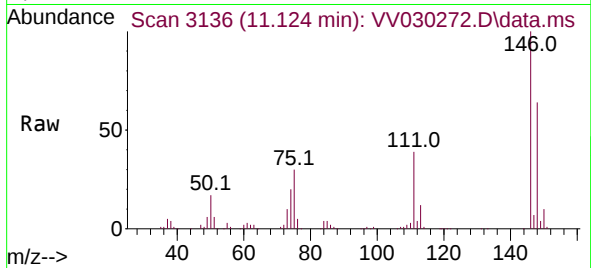




#64
1,3-Dichlorobenzene
Concen: 5.061 ug/L
RT: 11.124 min Scan# 3136
Delta R.T. -0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

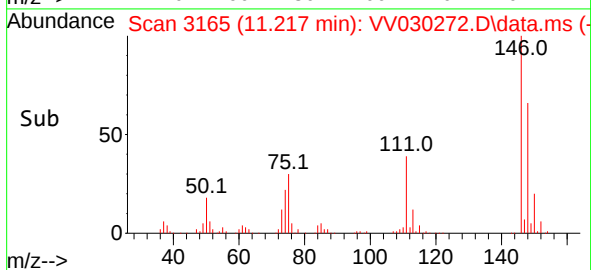
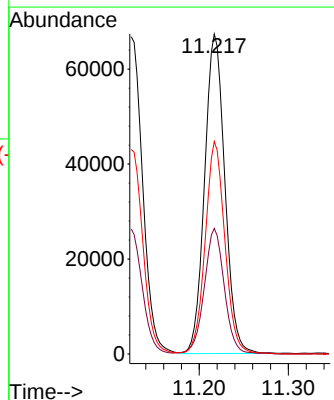
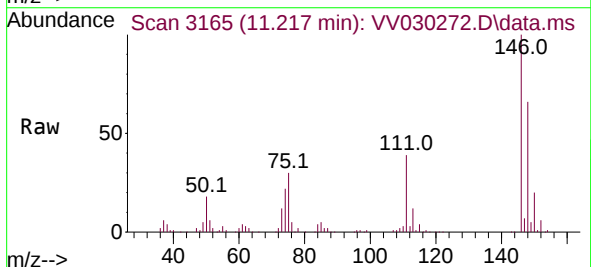
Instrument :
MSVOA_V
ClientSampleId :
VSTD005310

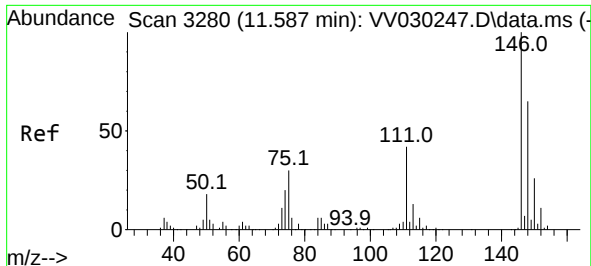
Tgt Ion:146 Resp: 105758
Ion Ratio Lower Upper
146 100
111 39.4 27.7 51.5
148 64.4 44.5 82.7



#65
1,4-Dichlorobenzene
Concen: 5.029 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. 0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Tgt Ion:146 Resp: 106026
Ion Ratio Lower Upper
146 100
111 39.2 27.4 51.0
148 66.4 44.1 81.9





#67

1,2-Dichlorobenzene

Concen: 5.238 ug/L

RT: 11.587 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD005310

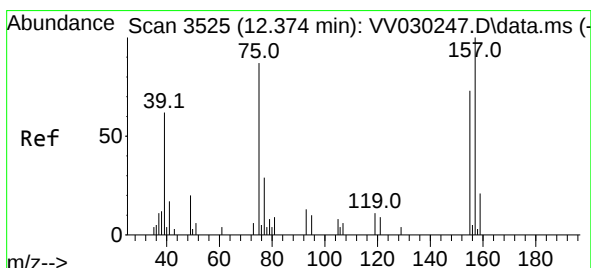
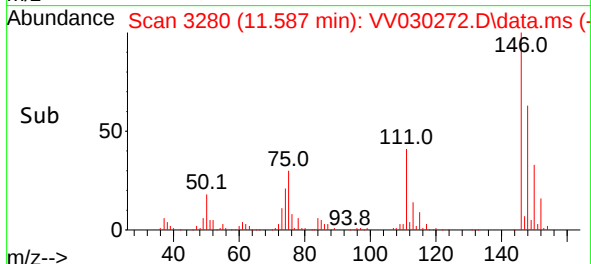
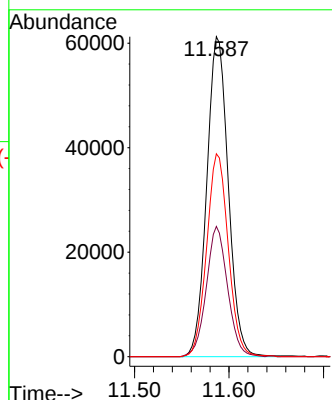
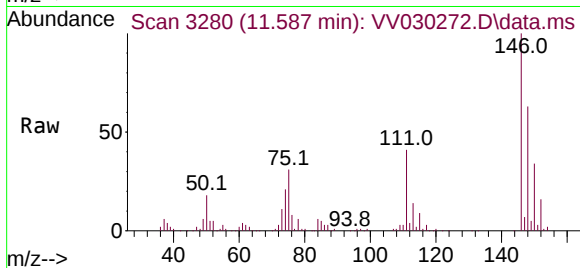
Tgt Ion:146 Resp: 96651

Ion Ratio Lower Upper

146 100

111 40.7 33.5 50.3

148 63.4 51.3 76.9



#68

1,2-Dibromo-3-chloropropane

Concen: 5.649 ug/L

RT: 12.374 min Scan# 3525

Delta R.T. 0.000 min

Lab File: VV030272.D

Acq: 21 Mar 2023 12:01

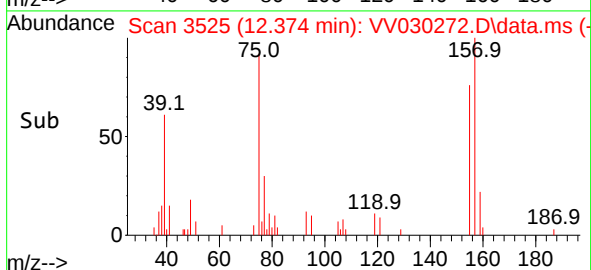
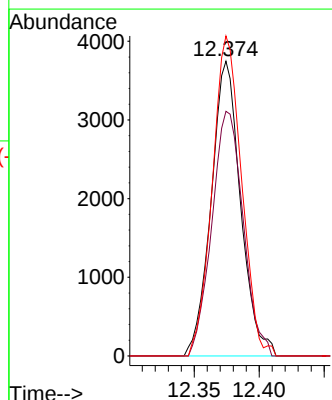
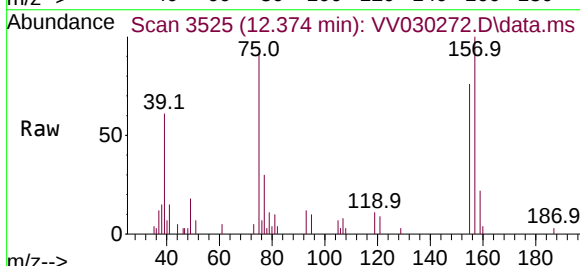
Tgt Ion: 75 Resp: 5890

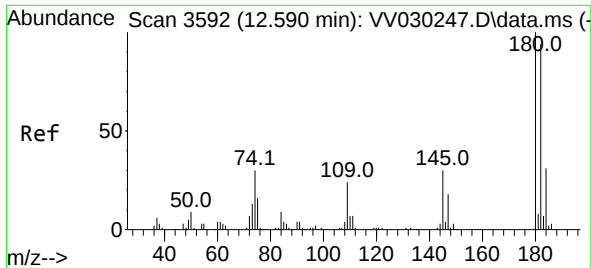
Ion Ratio Lower Upper

75 100

155 83.0 79.1 118.7

157 108.6 95.5 143.3

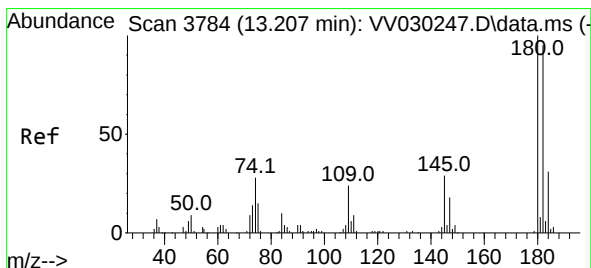
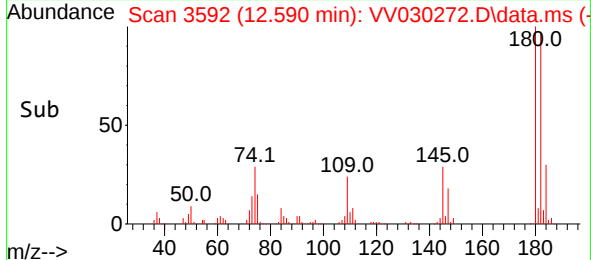
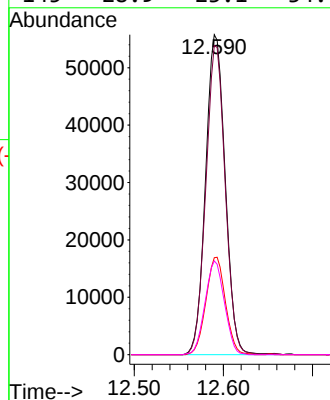
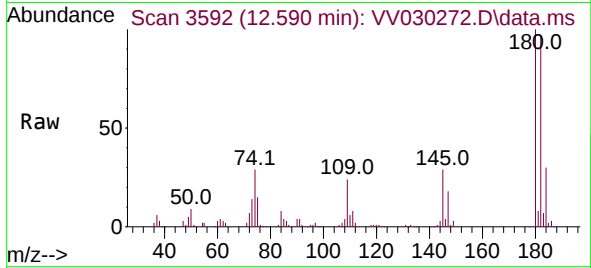




#69
 1,3,5-Trichlorobenzene
 Concen: 4.949 ug/L
 RT: 12.590 min Scan# 3592
 Delta R.T. -0.003 min
 Lab File: VV030272.D
 Acq: 21 Mar 2023 12:01

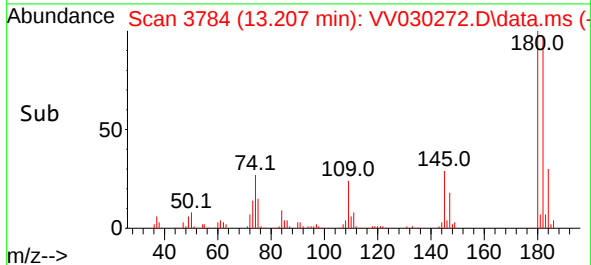
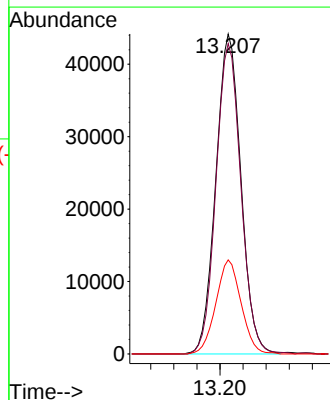
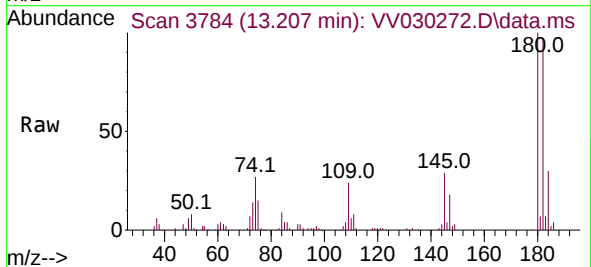
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005310

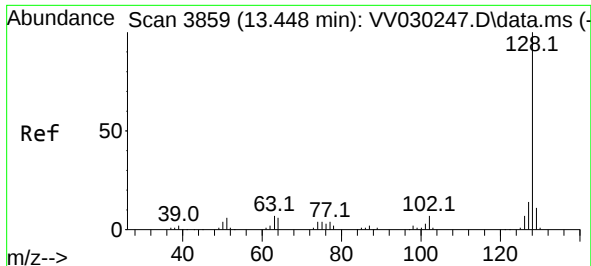
Tgt Ion:180	Resp:	85018
Ion Ratio	Lower	Upper
180	100	
182	95.4	76.5 114.7
184	30.3	24.3 36.5
145	28.9	23.1 34.7



#70
 1,2,4-trichlorobenzene
 Concen: 4.787 ug/L
 RT: 13.207 min Scan# 3784
 Delta R.T. -0.000 min
 Lab File: VV030272.D
 Acq: 21 Mar 2023 12:01

Tgt Ion:180	Resp:	66620
Ion Ratio	Lower	Upper
180	100	
182	96.3	77.3 115.9
145	29.6	23.1 34.7

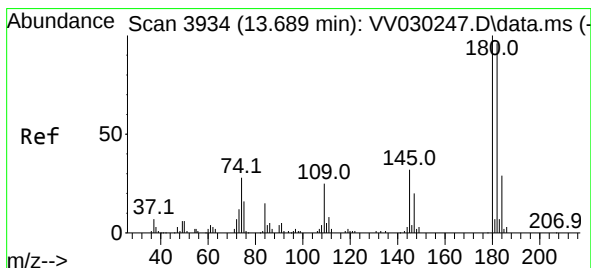
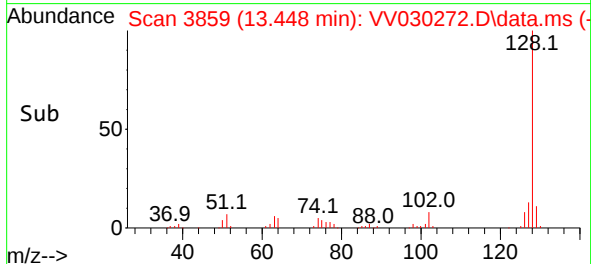
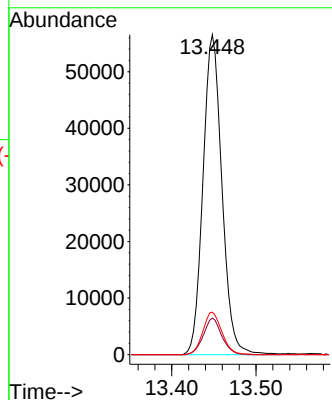
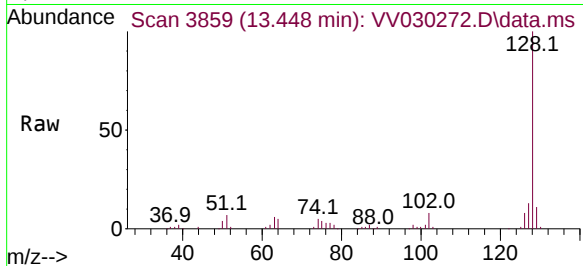




#71
Naphthalene
Concen: 4.871 ug/L
RT: 13.448 min Scan# 3859
Delta R.T. -0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Instrument :
MSVOA_V
ClientSampleId :
VSTD005310

Tgt Ion:128 Resp: 88580
Ion Ratio Lower Upper
128 100
129 11.1 8.6 13.0
127 13.4 10.4 15.6



#72
1,2,3-Trichlorobenzene
Concen: 4.779 ug/L
RT: 13.689 min Scan# 3934
Delta R.T. -0.000 min
Lab File: VV030272.D
Acq: 21 Mar 2023 12:01

Tgt Ion:180 Resp: 54749
Ion Ratio Lower Upper
180 100
182 96.1 76.2 114.2
145 32.3 25.1 37.7

