

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW100423\
 Data File : VW032223.D
 Acq On : 04 Oct 2023 12:40
 Operator : SY/MD
 Sample : 04708-07DL 5X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 05 01:40:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 05 01:37:52 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	134392	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	127006	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	62456	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	39474	3.612	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.200%
7) Chloroethane-d5	1.532	69	33603	3.787	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.800%
11) 1,1-Dichloroethene-d2	2.060	65	16210	3.517	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.400%
20) 2-Butanone-d5	3.812	46	90713	32.809	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	65.620%
24) Chloroform-d	4.256	84	68283	3.541	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	70.800%
26) 1,2-Dichloroethane-d4	4.947	65	34014	3.724	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.400%
32) Benzene-d6	4.963	84	138338	3.702	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	74.000%
36) 1,2-Dichloropropane-d6	5.992	67	45695	3.690	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	73.800%
41) Toluene-d8	7.249	98	122342	3.580	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.600%
43) trans-1,3-Dichloroprop...	7.561	79	15822	3.606	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.200%
46) 2-Hexanone-d5	8.030	63	72000	34.877	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	69.760%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	32428	3.744	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	74.800%
66) 1,2-Dichlorobenzene-d4	11.564	152	45403	3.918	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	78.400%#
Target Compounds						Qvalue
5) Vinyl chloride	1.282	62	70697	4.910	ug/L	99
8) Chloroethane	1.282	64	23055	2.660	ug/L #	50
12) 1,1-Dichloroethene	2.069	96	26445	2.683	ug/L	86
16) Methylene chloride	2.449	84	21620	1.682	ug/L	99
18) trans-1,2-Dichloroethene	2.699	96	12400	1.098	ug/L	93
22) cis-1,2-Dichloroethene	3.818	96	26013	2.140	ug/L	94
27) 1,2-Dichloroethane	5.050	62	25507	2.072	ug/L	99
29) 1,1,1-Trichloroethane	4.519	97	15302	0.886	ug/L	99
31) Carbon tetrachloride	4.741	117	7874	0.539	ug/L	93
33) Benzene	5.021	78	25232	0.564	ug/L	100
34) Trichloroethene	5.841	95	15476	1.268	ug/L	98
35) Methylcyclohexane	5.992	83	10712	0.567	ug/L #	17
37) 1,2-Dichloropropane	6.101	63	13587	1.136	ug/L	99
39) cis-1,3-Dichloropropene	6.921	75	1027	0.060	ug/L #	56
42) Toluene	7.323	91	32153	0.675	ug/L	96
45) 1,1,2-Trichloroethane	7.780	97	6676	0.791	ug/L	94
47) Tetrachloroethene	7.908	164	20906	2.258	ug/L	99
49) Dibromochloromethane	7.908	129	20018	2.279	ug/L #	8
51) Chlorobenzene	8.818	112	46888	1.528	ug/L	98

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

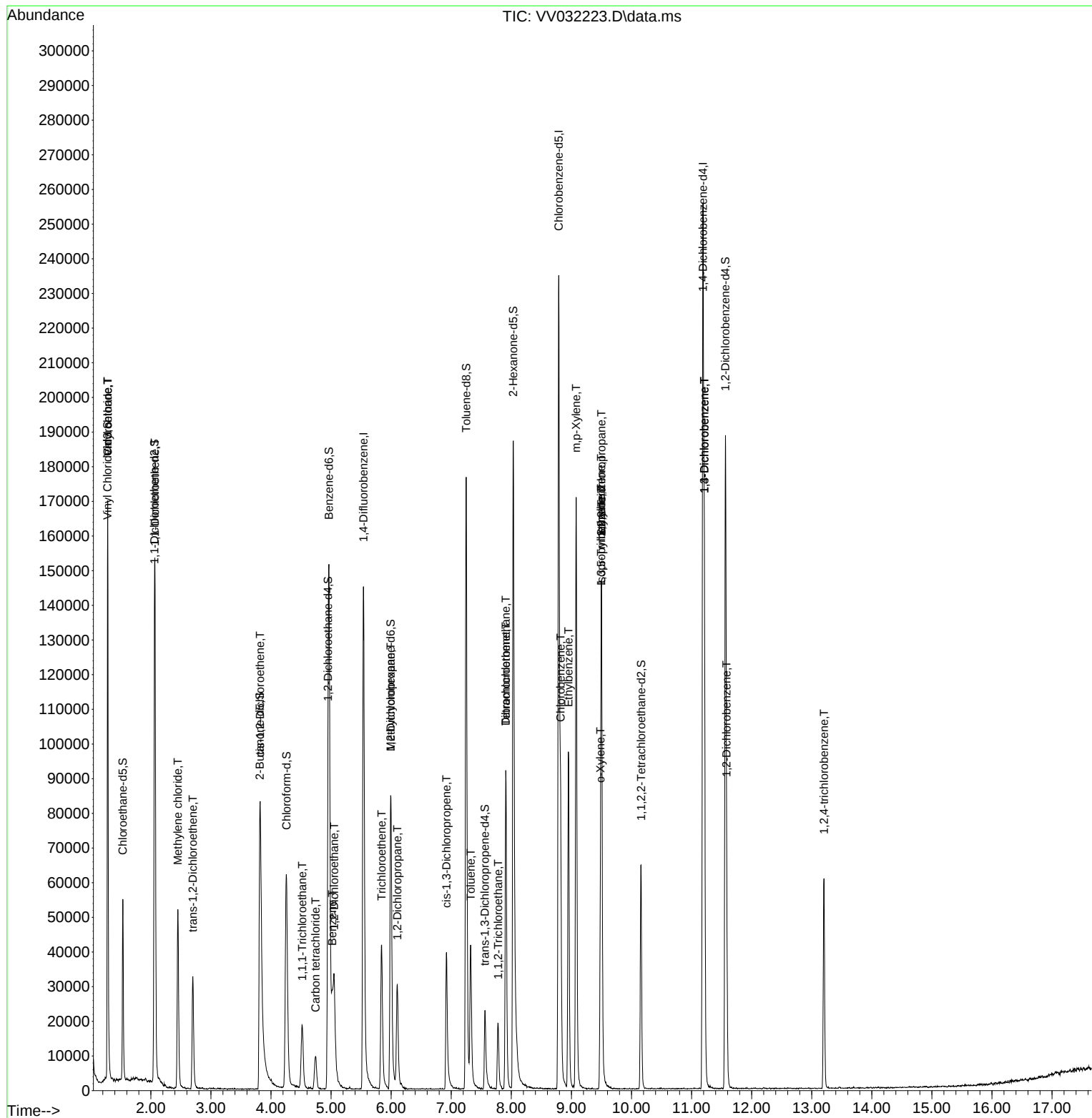
52) Ethylbenzene	8.950	91	69802	1.315	ug/L	99
53) m,p-Xylene	9.079	106	47203	2.398	ug/L	96
54) o-Xylene	9.484	106	11671	0.615	ug/L	99
55) Styrene	9.500	104	69481	2.169	ug/L	99
60) Isopropylbenzene	9.493	105	10813	0.223	ug/L #	1
61) 1,2,3-Trichloropropane	9.500	75	2996	0.451	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.493	105	10813	0.273	ug/L #	27
64) 1,3-Dichlorobenzene	11.214	146	58819	2.537	ug/L	98
65) 1,4-Dichlorobenzene	11.214	146	58819	2.528	ug/L	100
67) 1,2-Dichlorobenzene	11.583	146	17019	0.805	ug/L	99
70) 1,2,4-trichlorobenzene	13.204	180	17884	1.187	ug/L	99

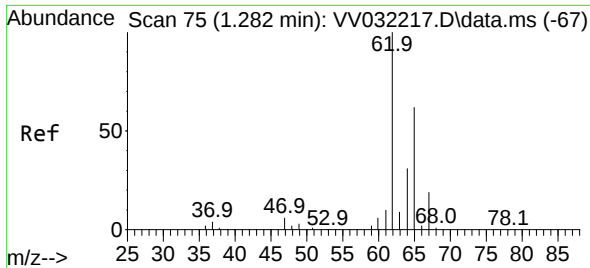
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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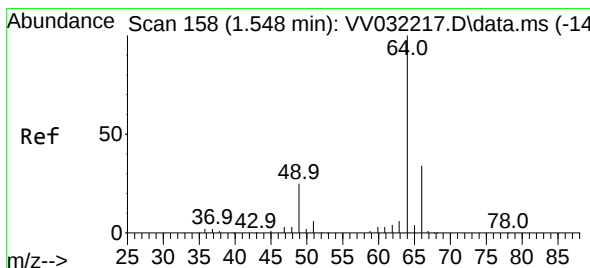
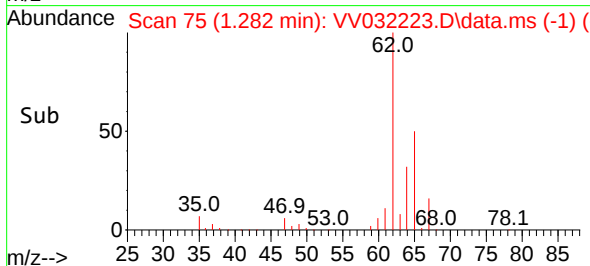
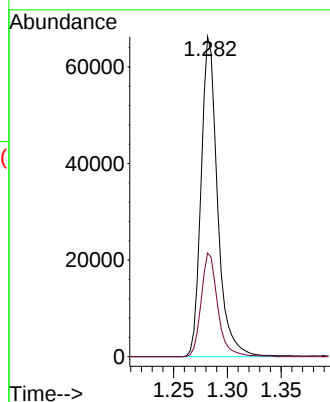
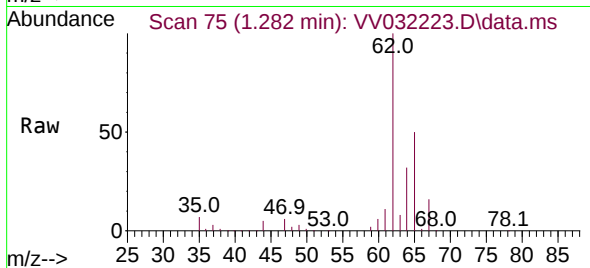




#5
 Vinyl chloride
 Concen: 4.910 ug/L
 RT: 1.282 min Scan# 75
 Delta R.T. 0.000 min
 Lab File: VV032223.D
 Acq: 04 Oct 2023 12:40

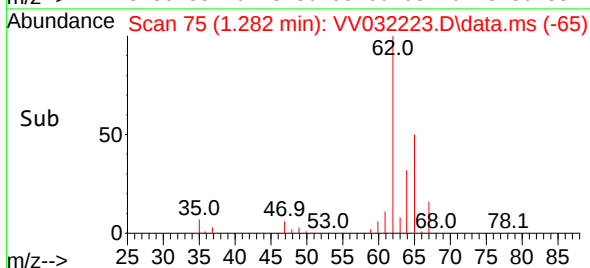
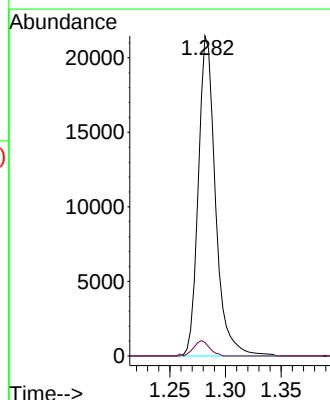
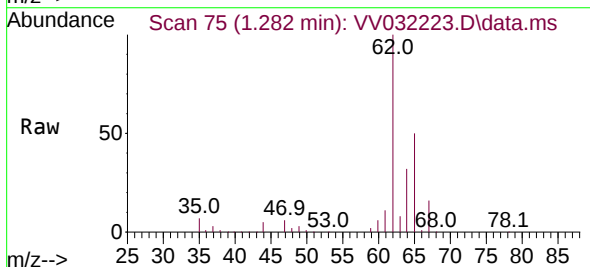
Instrument :
 MSVOA_V
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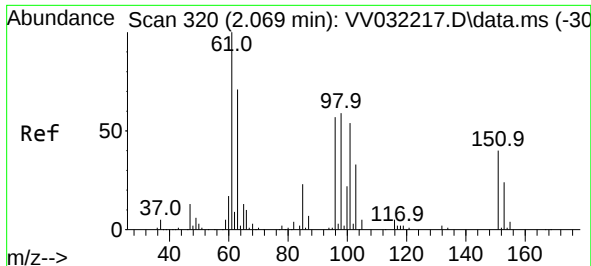
Tgt Ion: 62 Resp: 70697
 Ion Ratio Lower Upper
 62 100
 64 32.4 23.1 42.9



#8
 Chloroethane
 Concen: 2.660 ug/L
 RT: 1.282 min Scan# 75
 Delta R.T. -0.267 min
 Lab File: VV032223.D
 Acq: 04 Oct 2023 12:40

Tgt Ion: 64 Resp: 23055
 Ion Ratio Lower Upper
 64 100
 66 4.2 22.6 42.0#

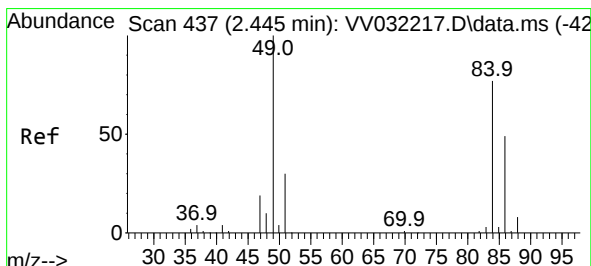
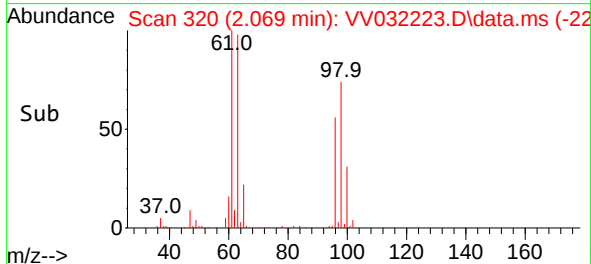
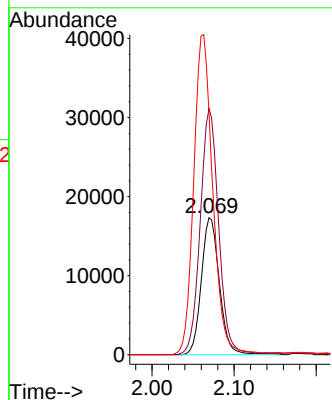
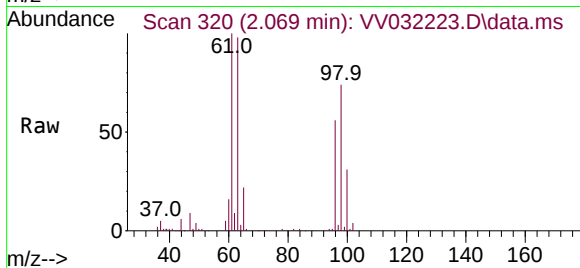




#12
1,1-Dichloroethene
Concen: 2.683 ug/L
RT: 2.069 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

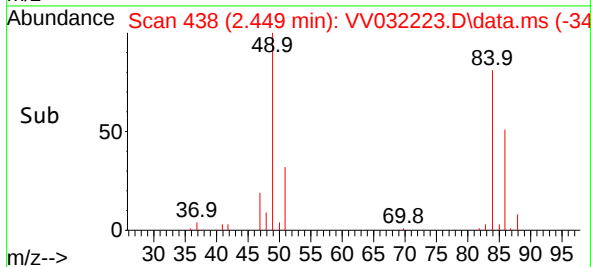
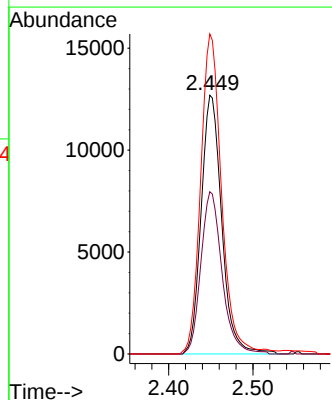
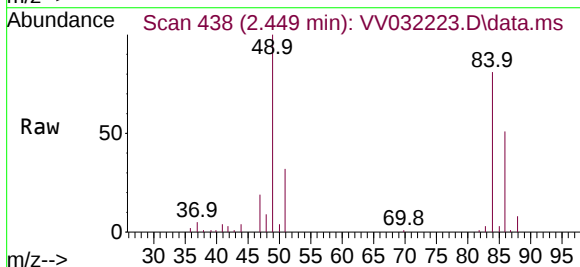
Instrument :
MSVOA_V
ClientSampleId :

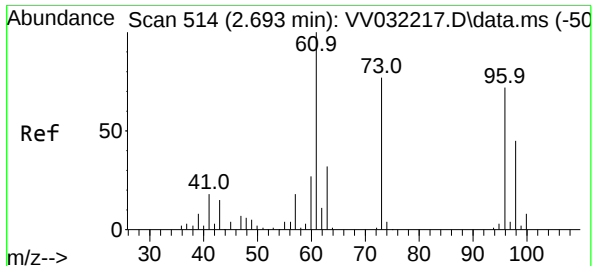
Tgt Ion: 96 Resp: 26445
Ion Ratio Lower Upper
96 100
61 179.6 127.3 236.3
63 176.6 98.3 182.7



#16
Methylene chloride
Concen: 1.682 ug/L
RT: 2.449 min Scan# 438
Delta R.T. 0.003 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

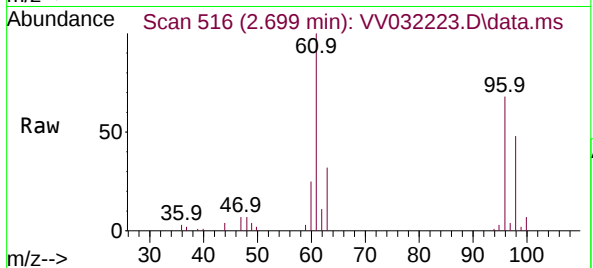
Tgt Ion: 84 Resp: 21620
Ion Ratio Lower Upper
84 100
86 62.7 43.2 80.2
49 123.7 86.3 160.3



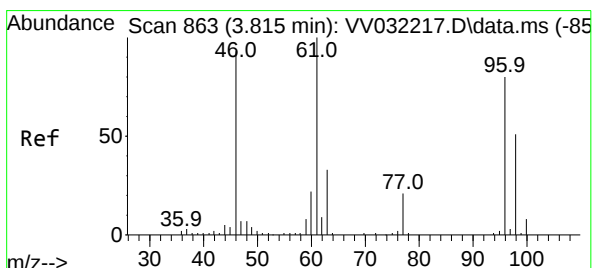
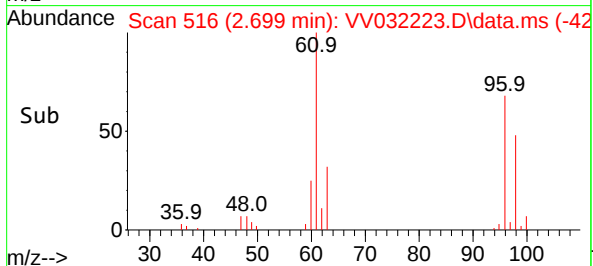
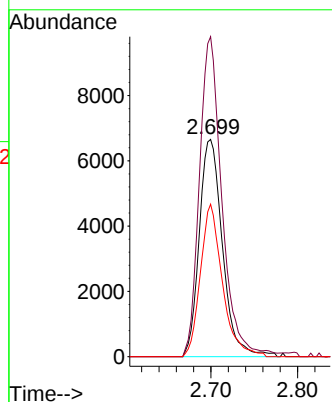


#18
trans-1,2-Dichloroethene
Concen: 1.098 ug/L
RT: 2.699 min Scan# 514
Delta R.T. 0.006 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

Instrument :
MSVOA_V
ClientSampleId :

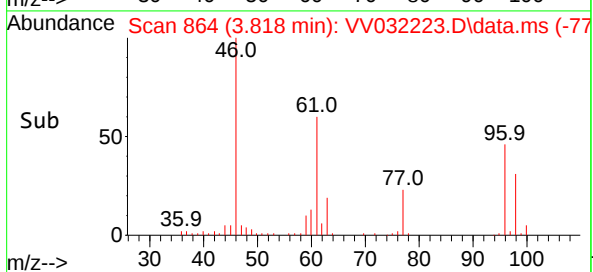
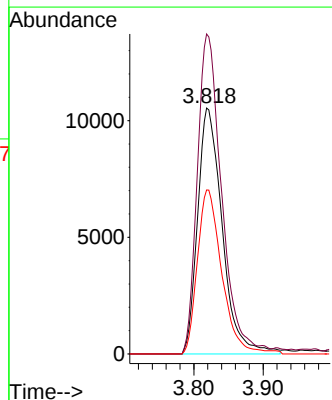
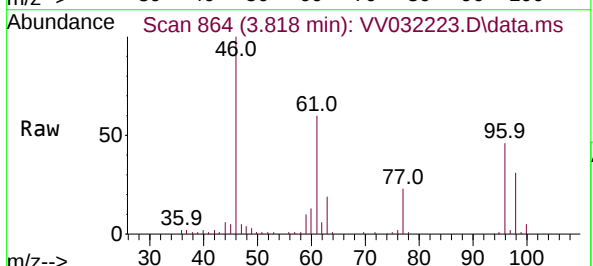


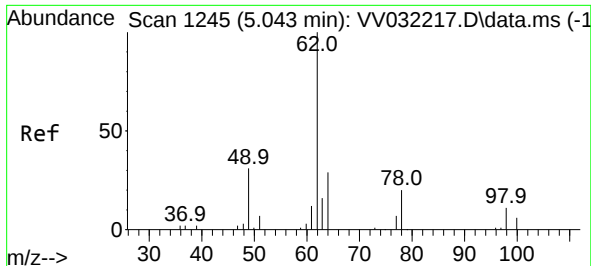
Tgt Ion: 96 Resp: 12400
Ion Ratio Lower Upper
96 100
61 147.2 96.9 180.1
98 70.2 45.3 84.1



#22
cis-1,2-Dichloroethene
Concen: 2.140 ug/L
RT: 3.818 min Scan# 864
Delta R.T. 0.003 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

Tgt Ion: 96 Resp: 26013
Ion Ratio Lower Upper
96 100
61 130.2 85.8 159.4
98 66.7 44.0 81.6





#27

1,2-Dichloroethane

Concen: 2.072 ug/L

RT: 5.050 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV032223.D

Acq: 04 Oct 2023 12:40

Instrument :

MSVOA_V

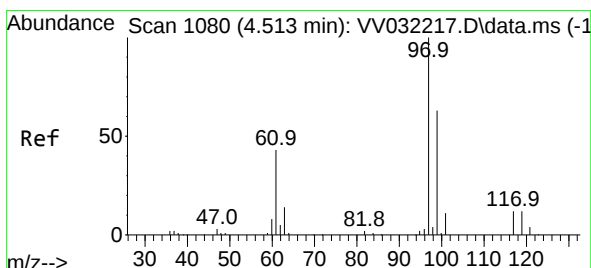
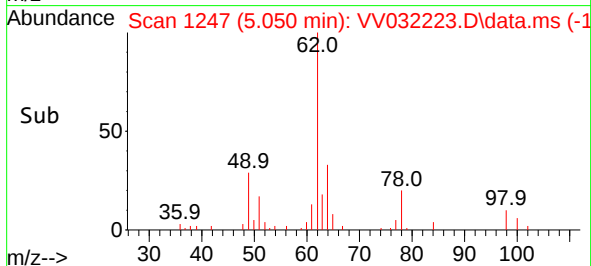
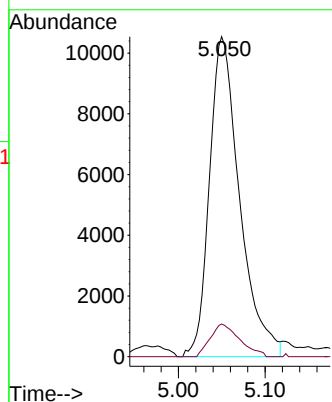
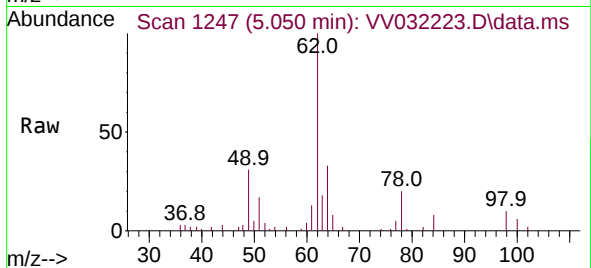
ClientSampleId :

Tgt Ion: 62 Resp: 25507

Ion Ratio Lower Upper

62 100

98 10.2 7.8 11.8



#29

1,1,1-Trichloroethane

Concen: 0.886 ug/L

RT: 4.519 min Scan# 1082

Delta R.T. 0.006 min

Lab File: VV032223.D

Acq: 04 Oct 2023 12:40

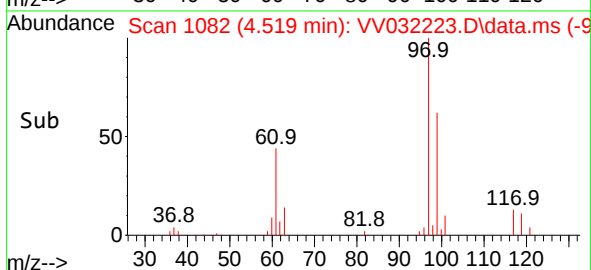
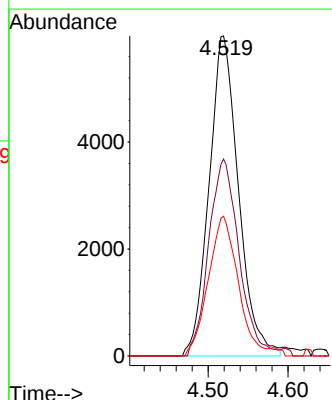
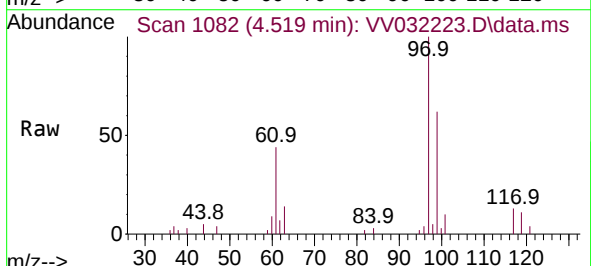
Tgt Ion: 97 Resp: 15302

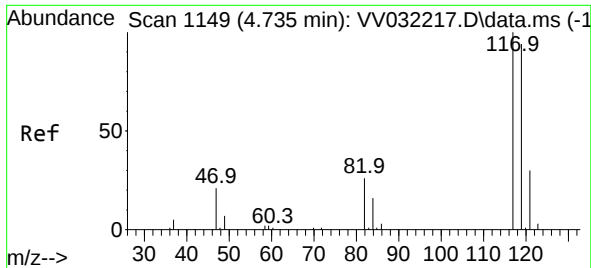
Ion Ratio Lower Upper

97 100

99 63.4 50.1 75.1

61 44.1 35.1 52.7

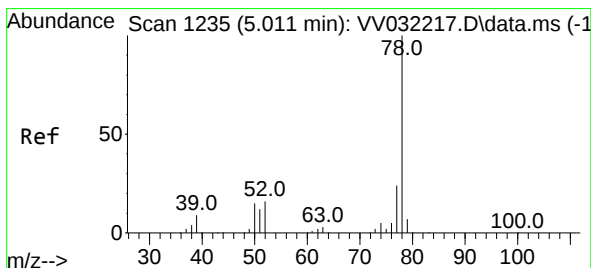
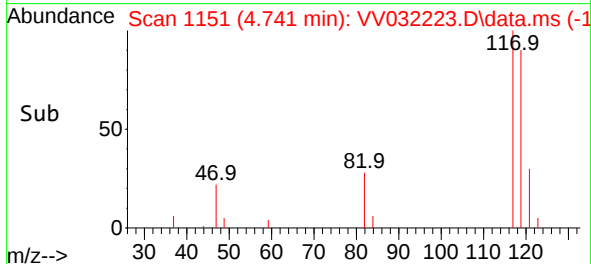
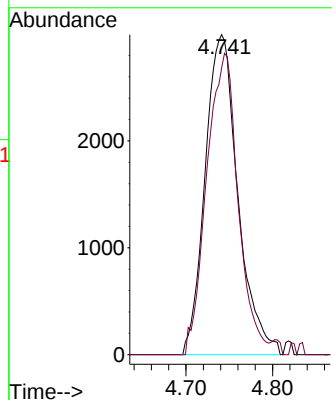
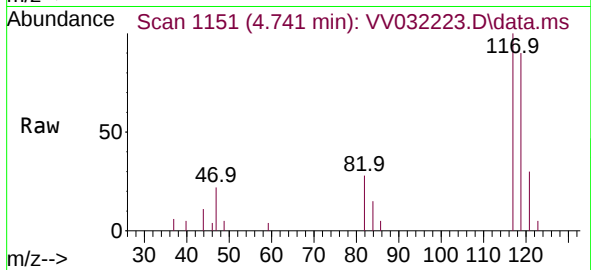




#31
Carbon tetrachloride
Concen: 0.539 ug/L
RT: 4.741 min Scan# 1149
Delta R.T. 0.006 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

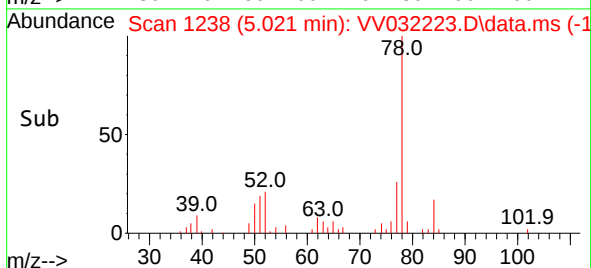
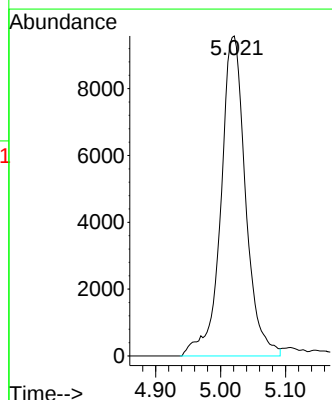
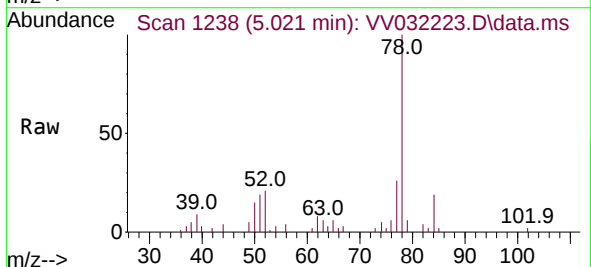
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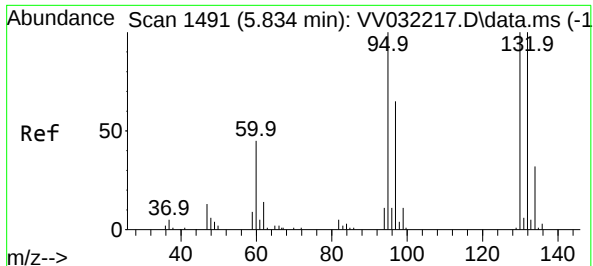
Tgt Ion:117 Resp: 7874
Ion Ratio Lower Upper
117 100
119 90.3 77.6 116.4



#33
Benzene
Concen: 0.564 ug/L
RT: 5.021 min Scan# 1238
Delta R.T. 0.010 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

Tgt Ion: 78 Resp: 25232

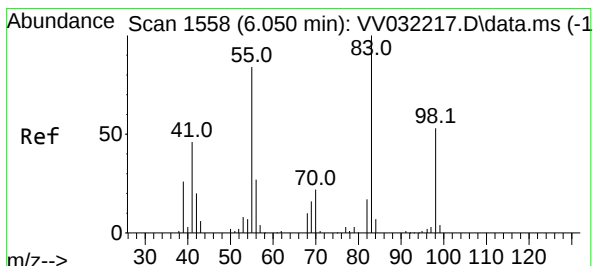
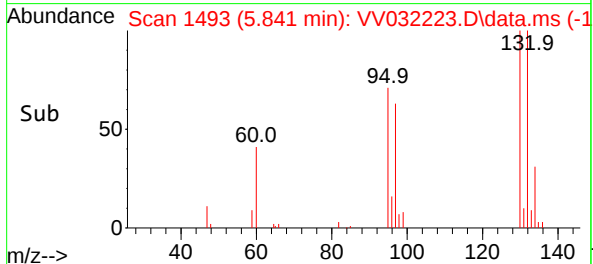
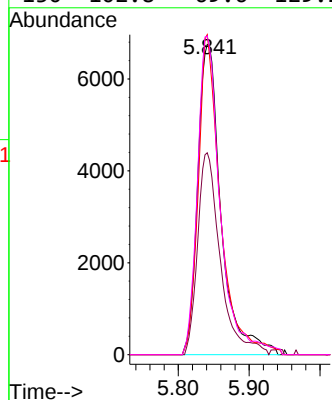
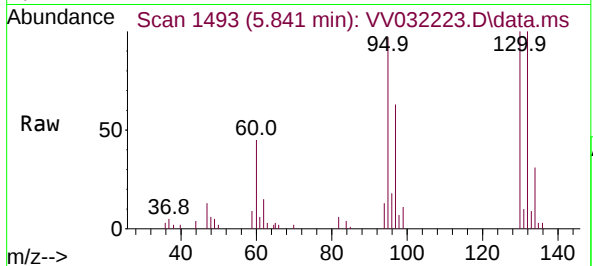




#34
Trichloroethene
Concen: 1.268 ug/L
RT: 5.841 min Scan# 1493
Delta R.T. 0.006 min
Lab File: VV032223.D
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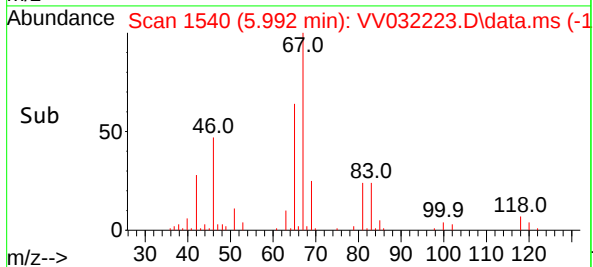
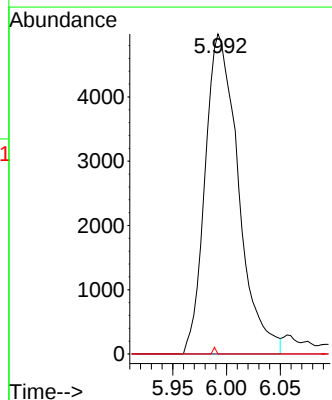
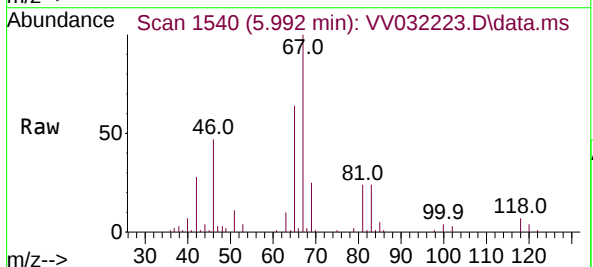
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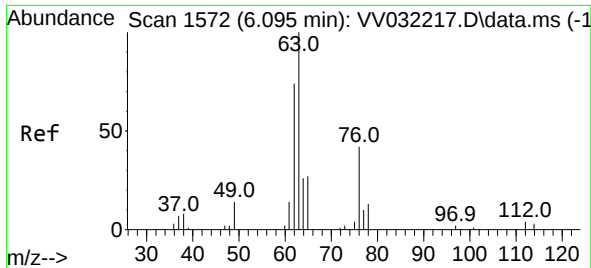
Tgt Ion: 95 Resp: 15476
Ion Ratio Lower Upper
95 100
97 65.1 45.7 84.9
132 103.2 70.3 130.5
130 102.8 69.6 129.2



#35
Methylcyclohexane
Concen: 0.567 ug/L
RT: 5.992 min Scan# 1540
Delta R.T. -0.058 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

Tgt Ion: 83 Resp: 10712
Ion Ratio Lower Upper
83 100
55 0.0 64.2 96.2#
98 0.4 39.6 59.4#





#37

1,2-Dichloropropane

Concen: 1.136 ug/L

RT: 6.101 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV032223.D

Acq: 04 Oct 2023 12:40

Instrument :

MSVOA_V

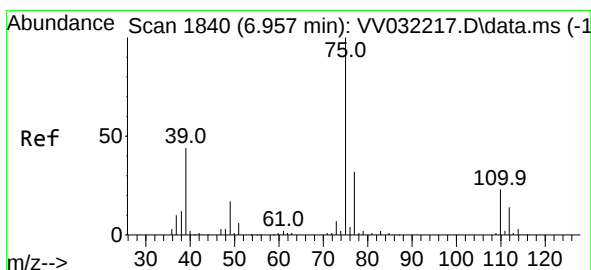
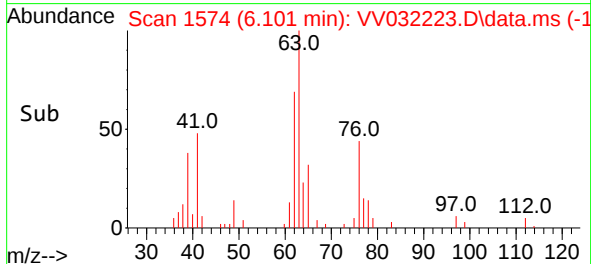
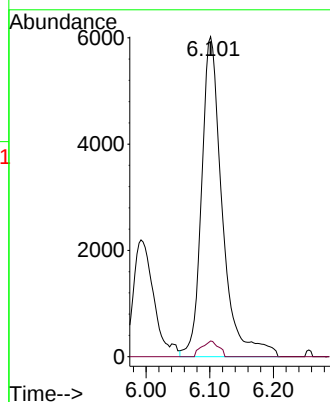
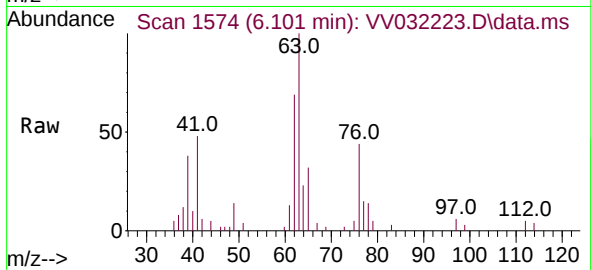
ClientSampleId :

Tgt Ion: 63 Resp: 13587

Ion Ratio Lower Upper

63 100

112 4.0 3.4 5.2



#39

cis-1,3-Dichloropropene

Concen: 0.060 ug/L

RT: 6.921 min Scan# 1829

Delta R.T. -0.035 min

Lab File: VV032223.D

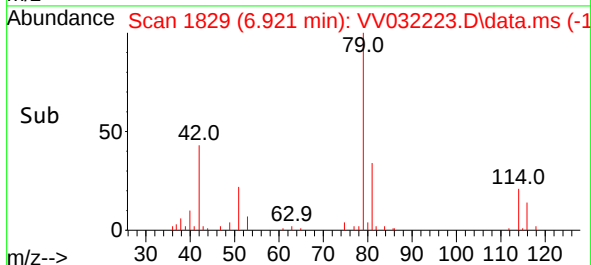
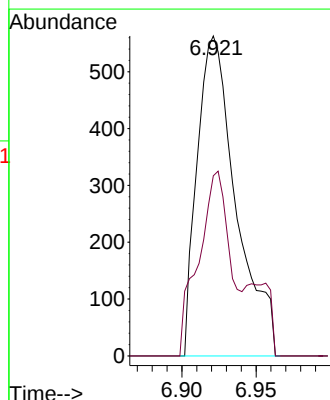
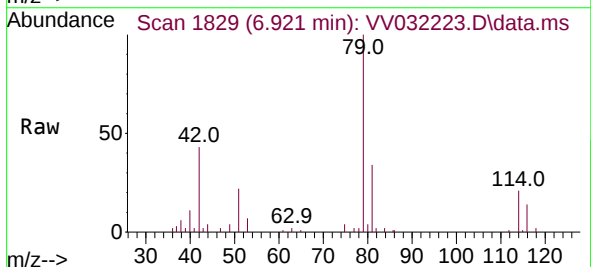
Acq: 04 Oct 2023 12:40

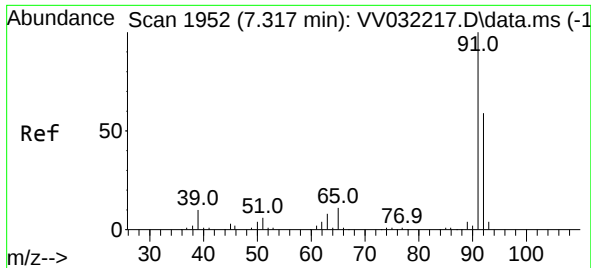
Tgt Ion: 75 Resp: 1027

Ion Ratio Lower Upper

75 100

77 56.3 22.2 41.2#





#42

Toluene

Concen: 0.675 ug/L

RT: 7.323 min Scan# 1952

Delta R.T. 0.006 min

Lab File: VV032223.D

Acq: 04 Oct 2023 12:40

Instrument :

MSVOA_V

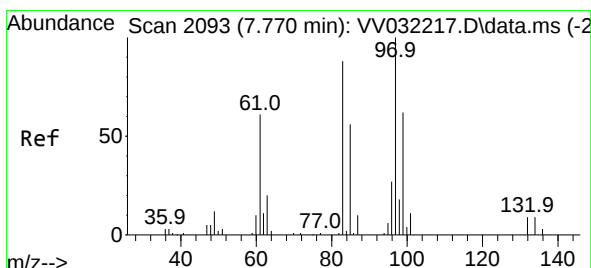
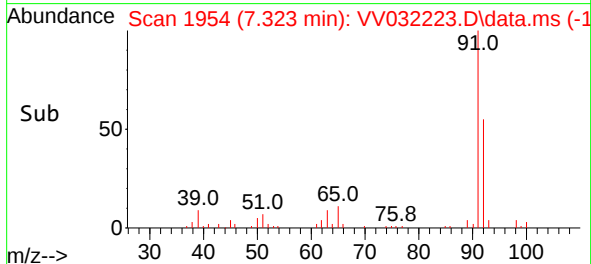
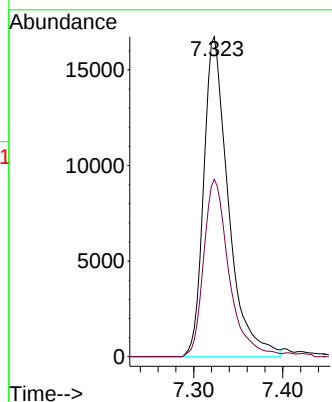
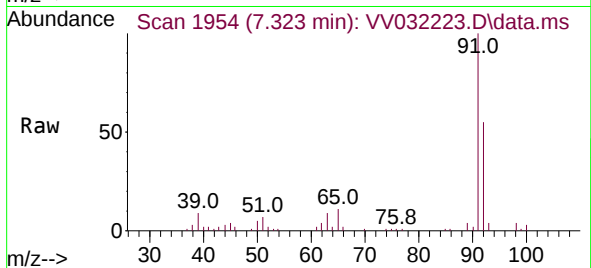
ClientSampleId :

Tgt Ion: 91 Resp: 32153

Ion Ratio Lower Upper

91 100

92 55.4 40.8 75.8



#45

1,1,2-Trichloroethane

Concen: 0.791 ug/L

RT: 7.780 min Scan# 2096

Delta R.T. 0.010 min

Lab File: VV032223.D

Acq: 04 Oct 2023 12:40

Tgt Ion: 97 Resp: 6676

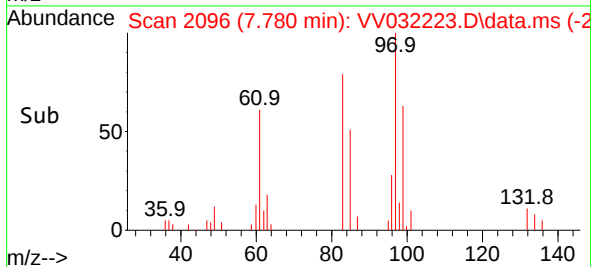
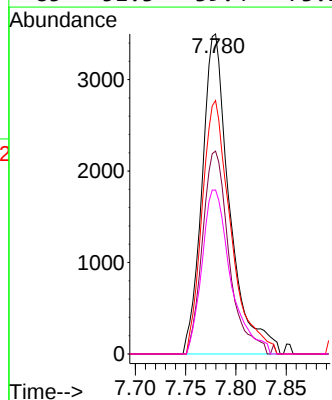
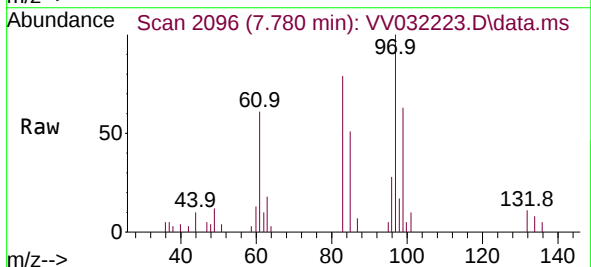
Ion Ratio Lower Upper

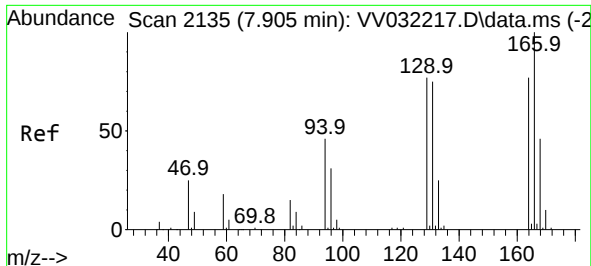
97 100

99 63.4 42.8 79.4

83 79.2 60.9 113.1

85 51.3 39.4 73.2





#47

Tetrachloroethene

Concen: 2.258 ug/L

RT: 7.908 min Scan# 2136

Delta R.T. 0.003 min

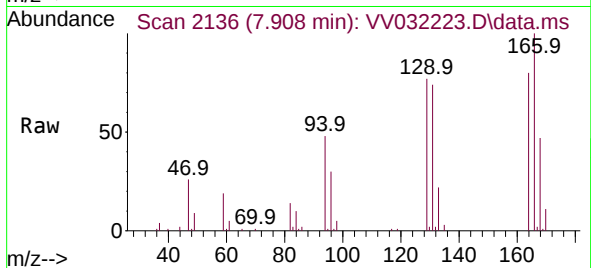
Lab File: VV032223.D

Acq: 04 Oct 2023 12:40

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 20906

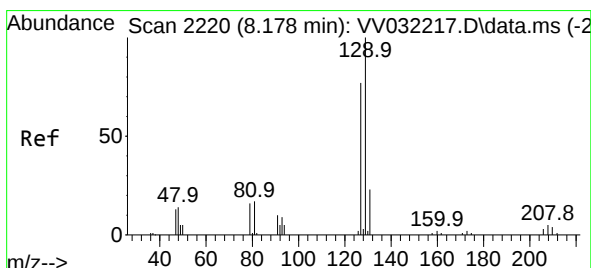
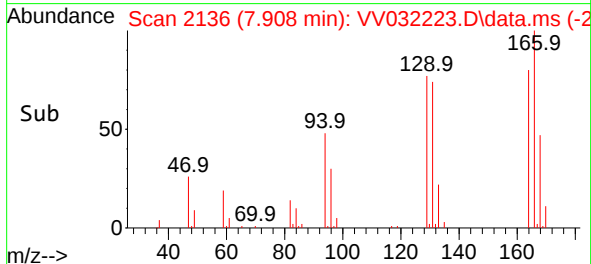
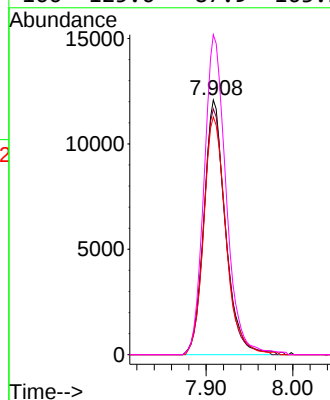
Ion Ratio Lower Upper

164 100

129 96.5 66.4 123.4

131 93.3 63.7 118.3

166 125.6 87.9 163.3



#49

Dibromochloromethane

Concen: 2.279 ug/L

RT: 7.908 min Scan# 2136

Delta R.T. -0.270 min

Lab File: VV032223.D

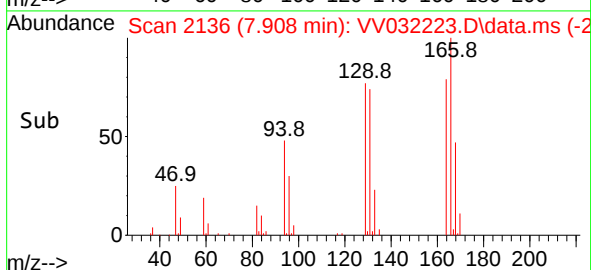
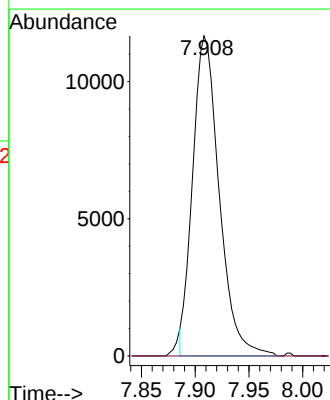
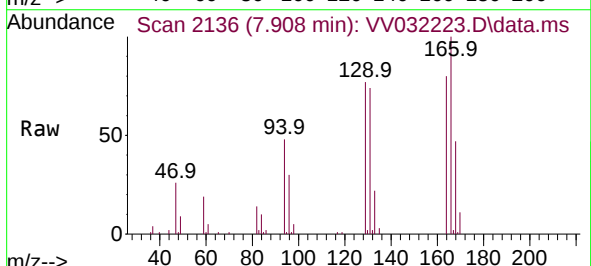
Acq: 04 Oct 2023 12:40

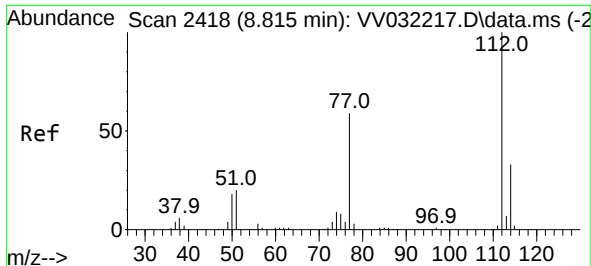
Tgt Ion:129 Resp: 20018

Ion Ratio Lower Upper

129 100

127 0.0 57.2 106.2#

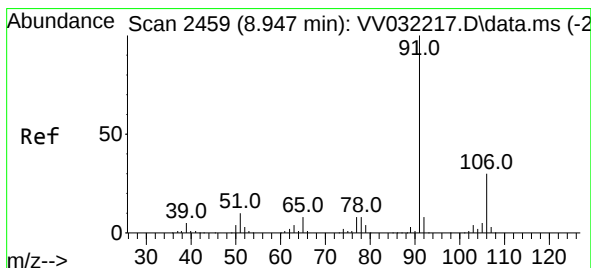
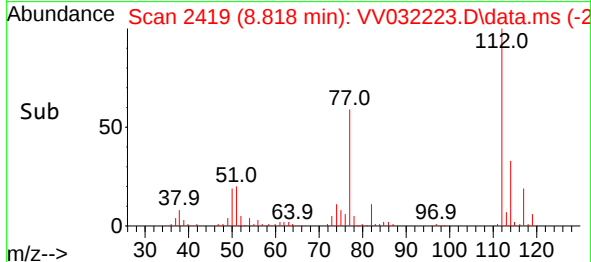
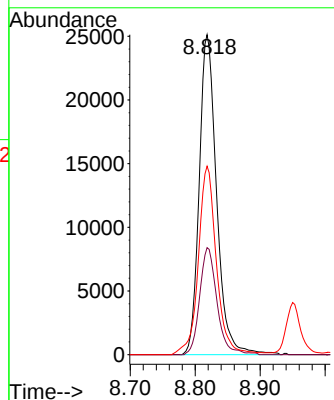
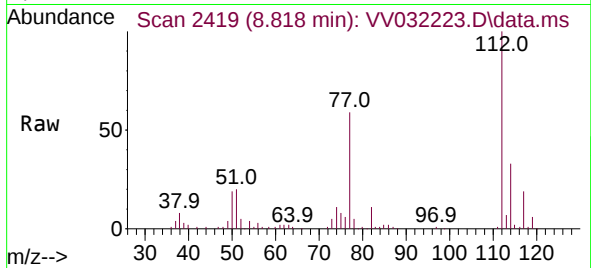




#51
Chlorobenzene
Concen: 1.528 ug/L
RT: 8.818 min Scan# 2418
Delta R.T. 0.003 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

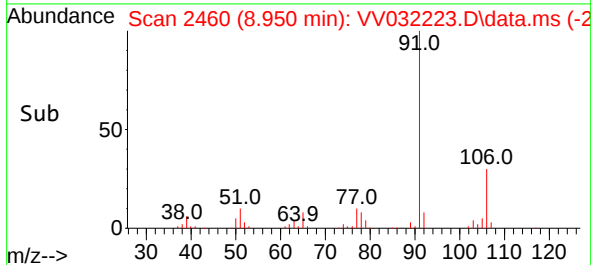
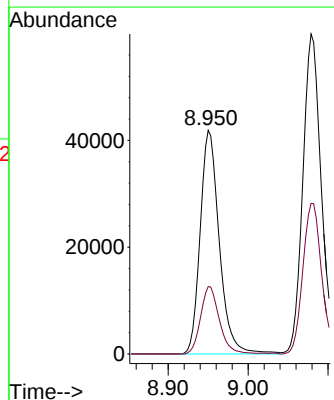
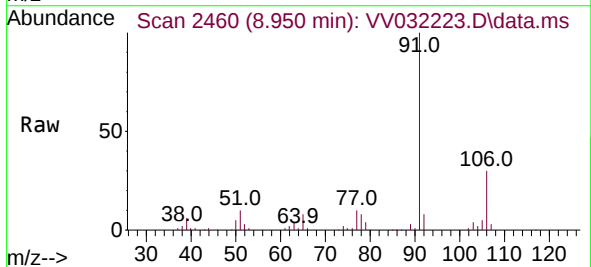
Instrument :
MSVOA_V
ClientSampleId :

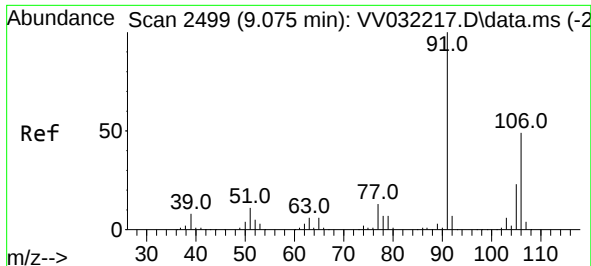
Tgt Ion:112 Resp: 46888
Ion Ratio Lower Upper
112 100
114 33.4 22.1 41.1
77 58.9 46.1 69.1



#52
Ethylbenzene
Concen: 1.315 ug/L
RT: 8.950 min Scan# 2460
Delta R.T. 0.003 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

Tgt Ion: 91 Resp: 69802
Ion Ratio Lower Upper
91 100
106 30.1 21.3 39.5





#53

m,p-Xylene

Concen: 2.398 ug/L

RT: 9.079 min Scan# 2

Delta R.T. 0.003 min

Lab File: VV032223.D

Acq: 04 Oct 2023 12:40

Instrument :

MSVOA_V

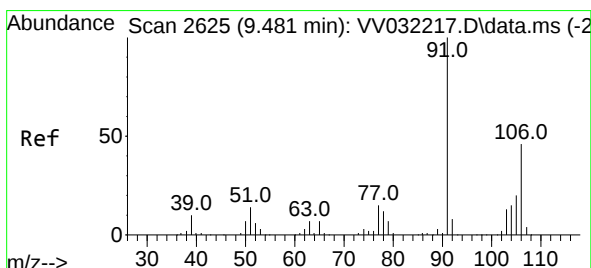
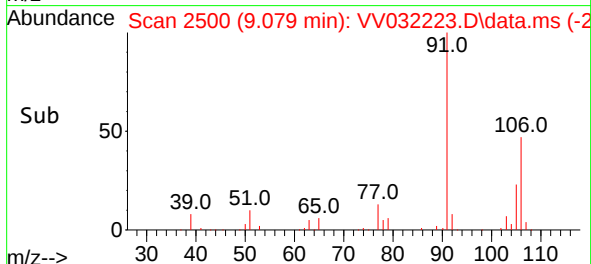
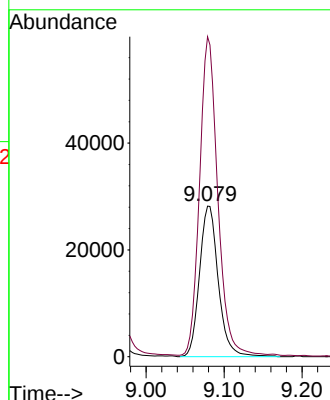
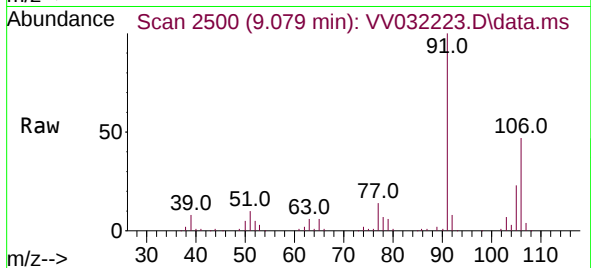
ClientSampleId :

Tgt Ion:106 Resp: 47203

Ion Ratio Lower Upper

106 100

91 212.5 144.5 268.3



#54

o-Xylene

Concen: 0.615 ug/L

RT: 9.484 min Scan# 2626

Delta R.T. 0.003 min

Lab File: VV032223.D

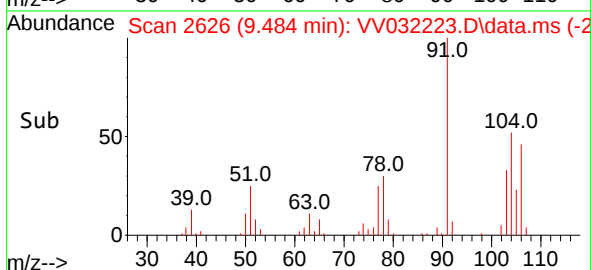
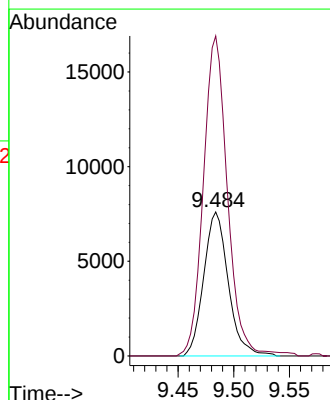
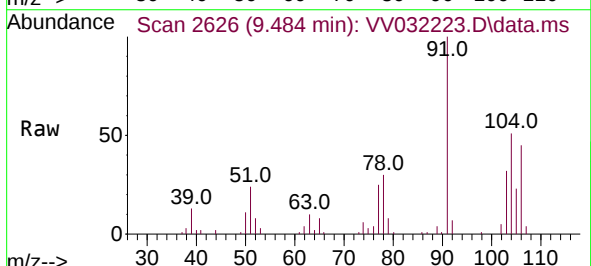
Acq: 04 Oct 2023 12:40

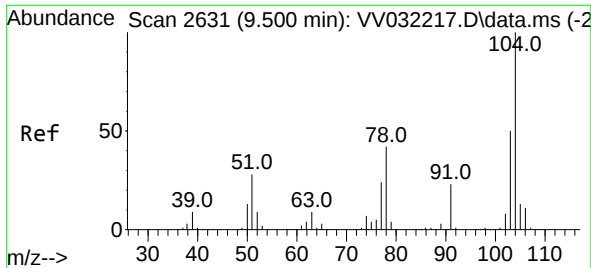
Tgt Ion:106 Resp: 11671

Ion Ratio Lower Upper

106 100

91 222.2 154.8 287.4

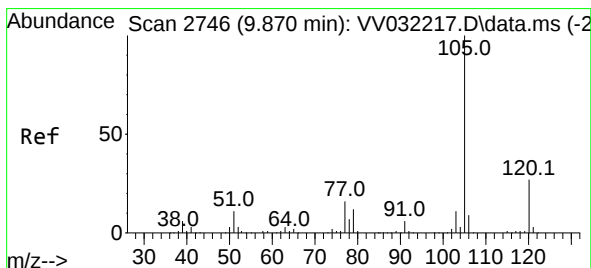
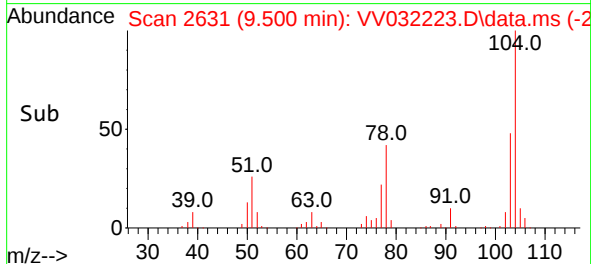
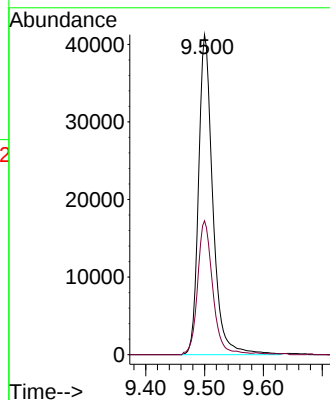
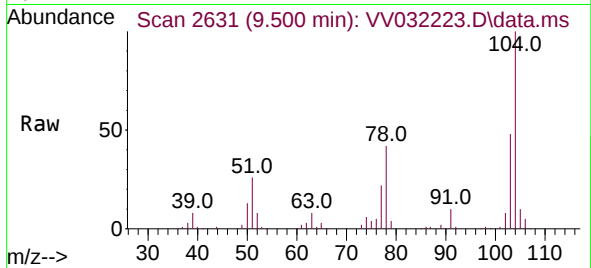




#55
Styrene
Concen: 2.169 ug/L
RT: 9.500 min Scan# 2631
Delta R.T. 0.000 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

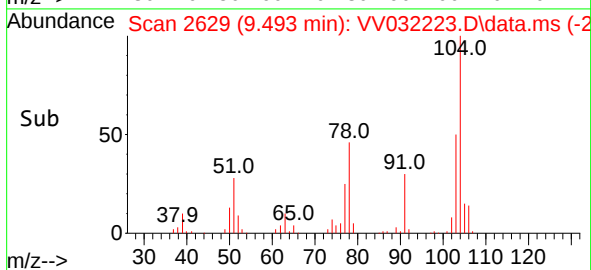
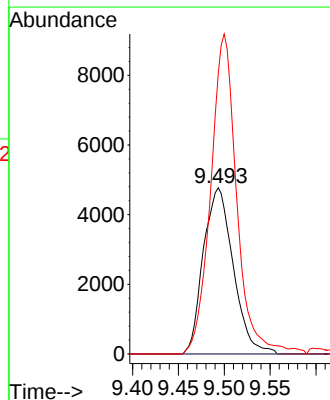
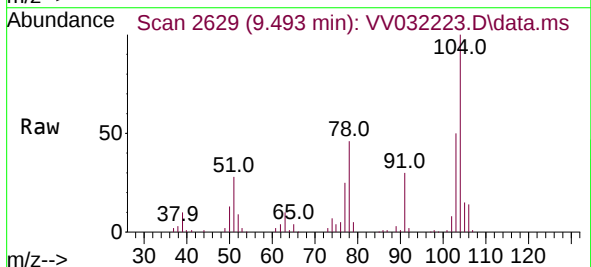
Instrument :
MSVOA_V
ClientSampleId :

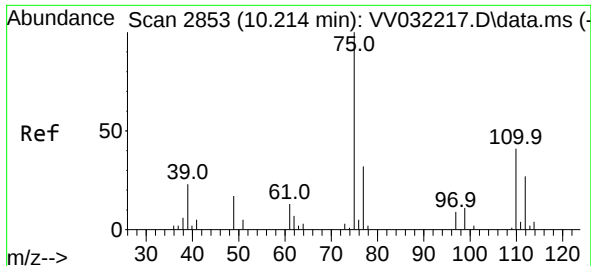
Tgt Ion:104 Resp: 69481
Ion Ratio Lower Upper
104 100
78 41.9 29.9 55.5



#60
Isopropylbenzene
Concen: 0.223 ug/L
RT: 9.493 min Scan# 2629
Delta R.T. -0.376 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

Tgt Ion:105 Resp: 10813
Ion Ratio Lower Upper
105 100
120 0.0 21.0 31.6#
77 167.2 12.6 19.0#

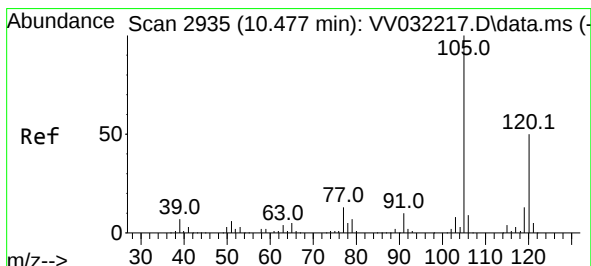
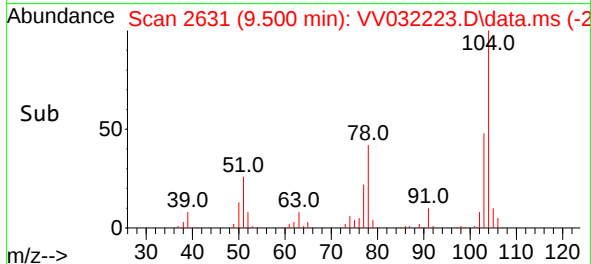
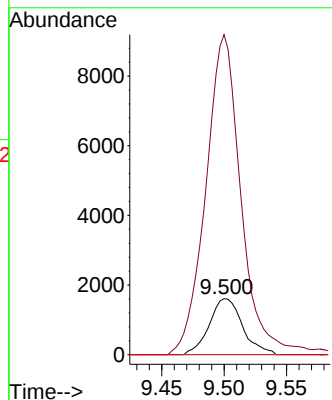
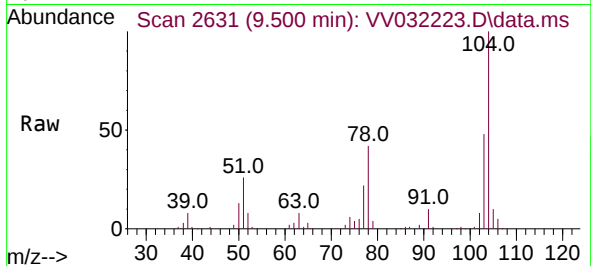




#61
1,2,3-Trichloropropane
Concen: 0.451 ug/L
RT: 9.500 min Scan# 20
Delta R.T. -0.714 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

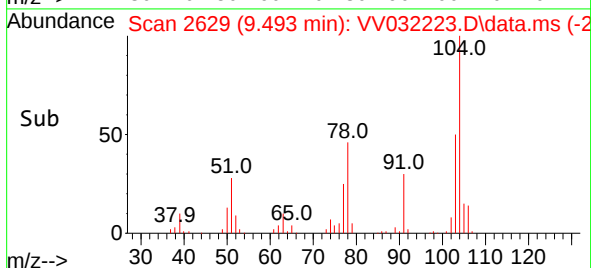
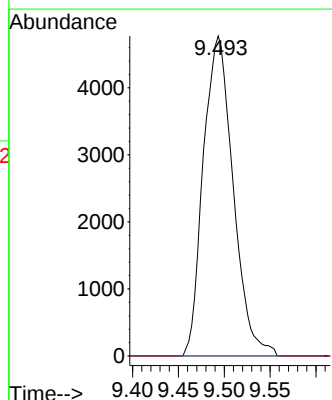
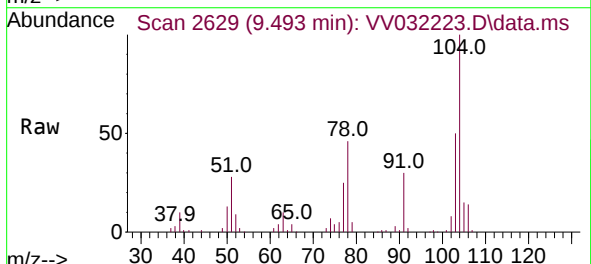
Instrument :
MSVOA_V
ClientSampleId :

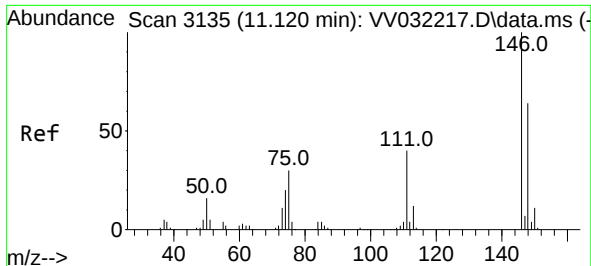
Tgt Ion: 75 Resp: 2996
Ion Ratio Lower Upper
75 100
77 603.5 26.2 39.2#
110 0.0 30.6 46.0#



#62
1,3,5-Trimethylbenzene
Concen: 0.273 ug/L
RT: 9.493 min Scan# 2629
Delta R.T. -0.984 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

Tgt Ion: 105 Resp: 10813
Ion Ratio Lower Upper
105 100
120 0.0 39.9 59.9#

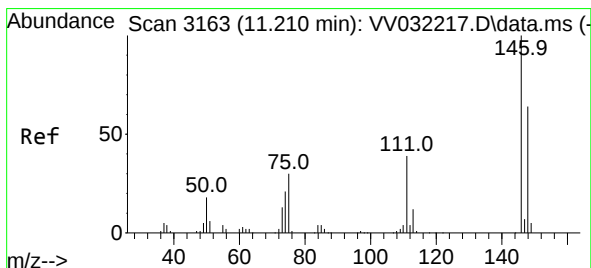
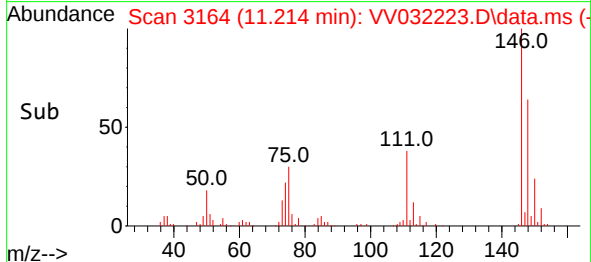
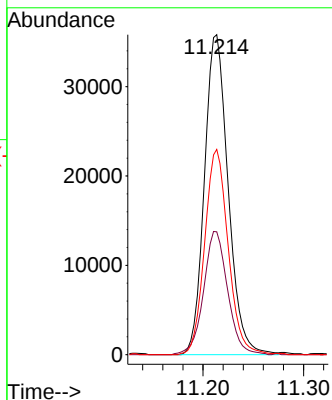
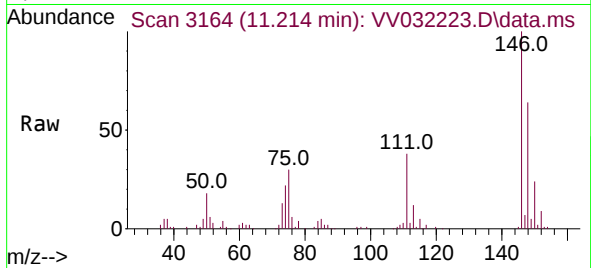




#64
1,3-Dichlorobenzene
Concen: 2.537 ug/L
RT: 11.214 min Scan# 3164
Delta R.T. 0.093 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

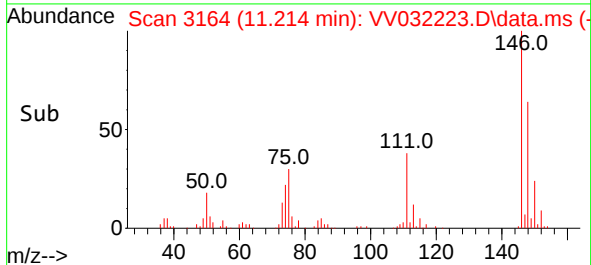
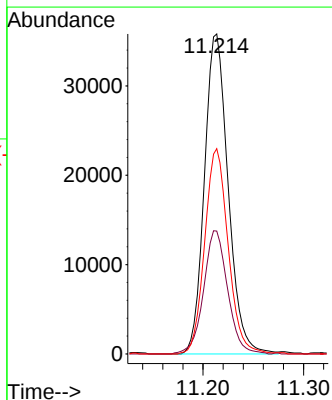
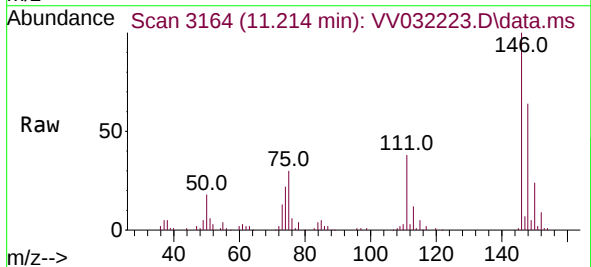
Instrument :
MSVOA_V
ClientSampleId :

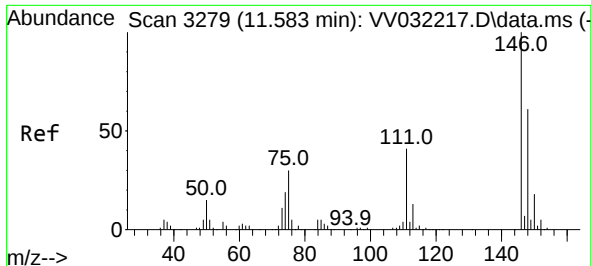
Tgt Ion:146 Resp: 58819
Ion Ratio Lower Upper
146 100
111 38.4 27.8 51.6
148 64.1 43.7 81.1



#65
1,4-Dichlorobenzene
Concen: 2.528 ug/L
RT: 11.214 min Scan# 3164
Delta R.T. 0.003 min
Lab File: VV032223.D
Acq: 04 Oct 2023 12:40

Tgt Ion:146 Resp: 58819
Ion Ratio Lower Upper
146 100
111 38.4 26.9 49.9
148 64.1 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 0.805 ug/L

RT: 11.583 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV032223.D

Acq: 04 Oct 2023 12:40

Instrument :

MSVOA_V

ClientSampleId :

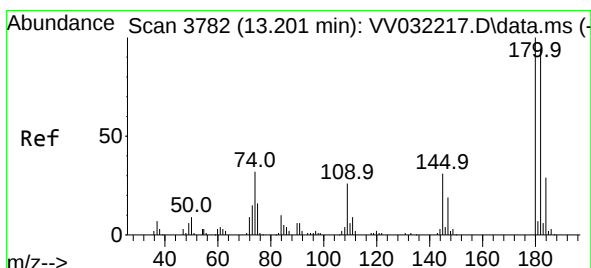
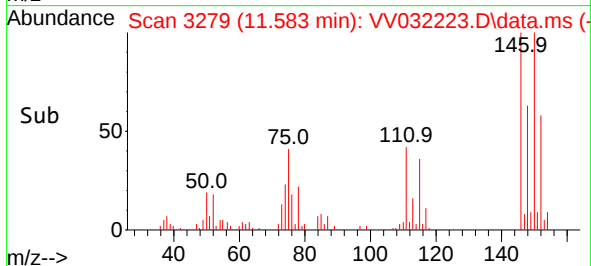
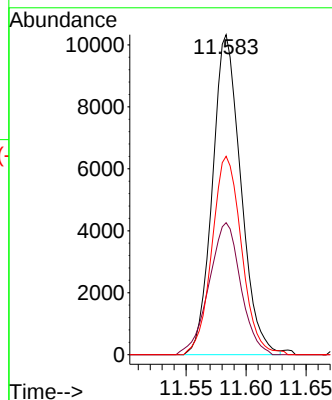
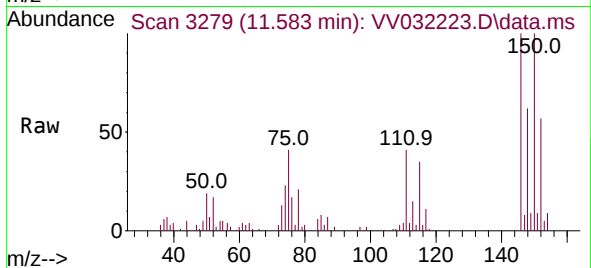
Tgt Ion:146 Resp: 17019

Ion Ratio Lower Upper

146 100

111 41.2 32.8 49.2

148 62.0 51.0 76.4



#70

1,2,4-trichlorobenzene

Concen: 1.187 ug/L

RT: 13.204 min Scan# 3783

Delta R.T. 0.003 min

Lab File: VV032223.D

Acq: 04 Oct 2023 12:40

Tgt Ion:180 Resp: 17884

Ion Ratio Lower Upper

180 100

182 96.9 76.5 114.7

145 30.7 24.3 36.5

