

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051023\
 Data File : VX035597.D
 Acq On : 10 May 2023 19:29
 Operator : JC/MD
 Sample : 02652-04 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RO-290535

Quant Time: May 11 04:31:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X042523W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 16:31:40 2023
 Response via : Initial Calibration

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

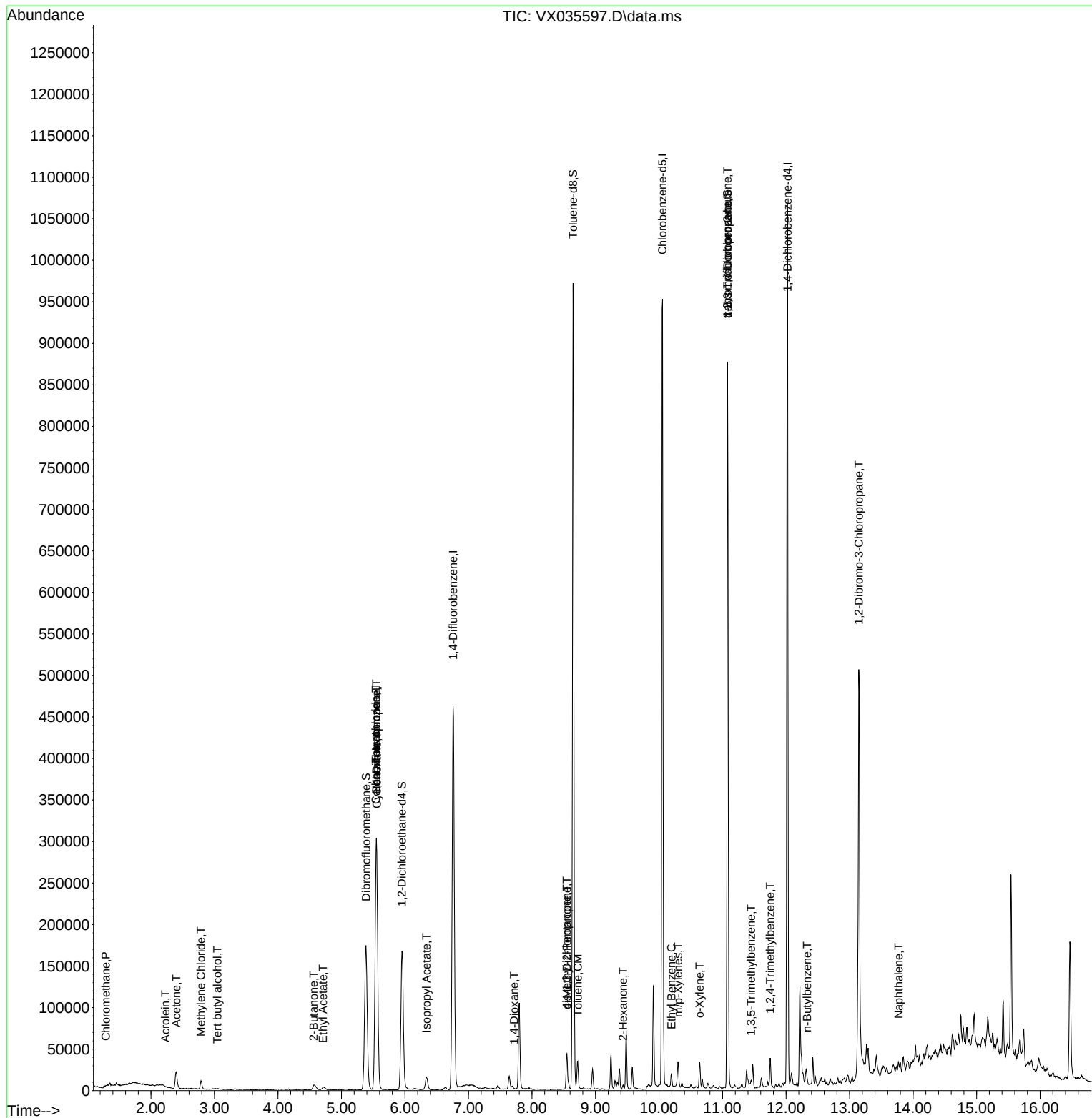
Internal Standards						
1) Pentafluorobenzene	5.550	168	312085	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	509136	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	473242	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	248154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	159117	42.261	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	84.520%		
35) Dibromofluoromethane	5.385	113	156886	50.205	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.400%		
50) Toluene-d8	8.647	98	584500	49.583	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.160%		
62) 4-Bromofluorobenzene	11.079	95	235733	53.159	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	106.320%		
Target Compounds						Qvalue
3) Chloromethane	1.288	50	945	0.315	ug/l	93
11) Tert butyl alcohol	3.044	59	745	1.087	ug/l #	1
13) Acrolein	2.227	56	136	0.202	ug/l #	9
16) Acetone	2.398	43	29536	18.062	ug/l	96
20) Methylene Chloride	2.788	84	5006	1.335	ug/l #	84
25) 2-Butanone	4.562	43	11503	4.819	ug/l	94
31) Cyclohexane	5.556	56	5709	1.069	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	20490	4.199	ug/l #	50
37) Ethyl Acetate	4.708	43	5836	1.310	ug/l #	83
38) Carbon Tetrachloride	5.544	117	28785	6.214	ug/l #	16
43) Isopropyl Acetate	6.336	43	20735	2.769	ug/l #	91
49) 1,4-Dioxane	7.720	88	144	1.608	ug/l #	23
51) 4-Methyl-2-Pentanone	8.549	43	17123	3.722	ug/l #	37
52) Toluene	8.720	92	12279	1.384	ug/l	99
54) cis-1,3-Dichloropropene	8.549	75	7811	1.482	ug/l #	51
59) 2-Hexanone	9.433	43	2457	0.711	ug/l	79
67) Ethyl Benzene	10.195	91	8748	0.493	ug/l	93
68) m/p-Xylenes	10.299	106	7190	1.058	ug/l	92
69) o-Xylene	10.640	106	5027	0.755	ug/l	98
76) 1,2,3-Trichloropropane	11.079	75	108632	21.945	ug/l #	34
80) 1,3,5-Trimethylbenzene	11.451	105	3761	0.246	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.079	75	108632	71.077	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.750	105	14221	0.925	ug/l	96
89) n-Butylbenzene	12.329	91	2822	0.209	ug/l #	55
92) 1,2-Dibromo-3-Chloropr...	13.146	75	1304	1.155	ug/l #	5
95) Naphthalene	13.774	128	6388	0.385	ug/l #	94

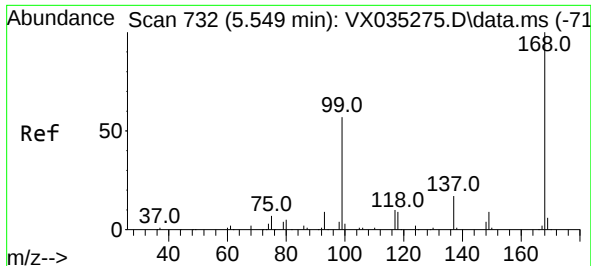
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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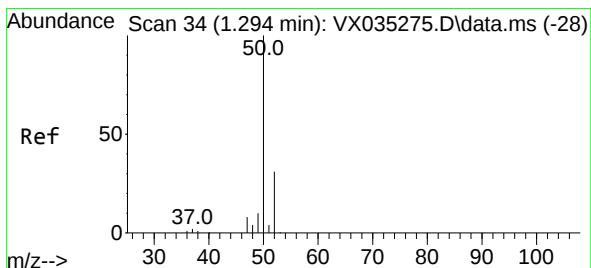
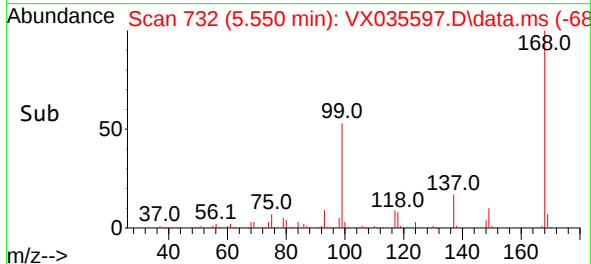
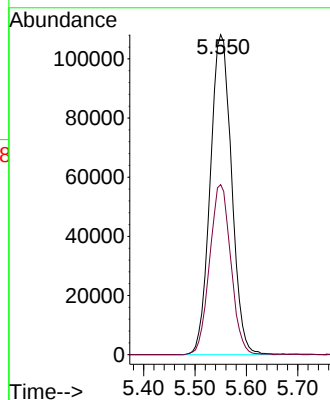
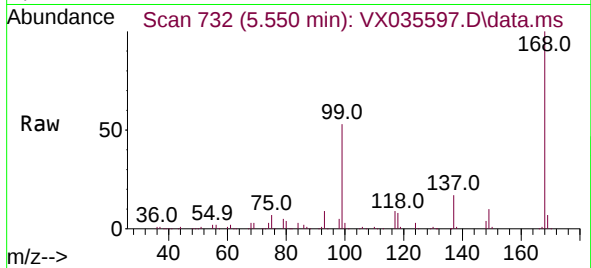




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

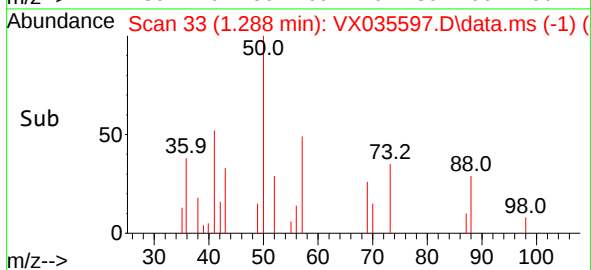
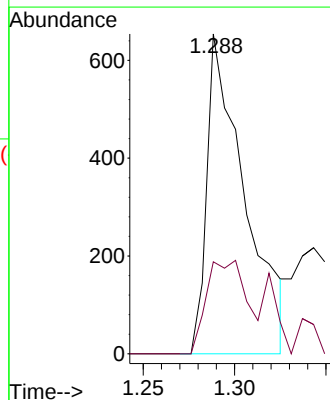
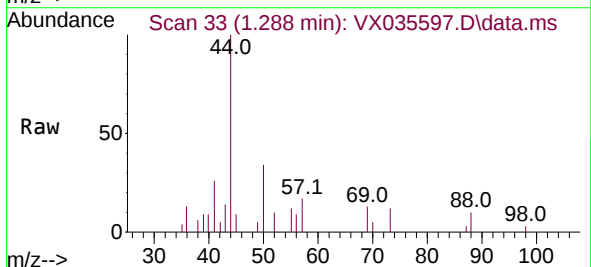
Instrument :
MSVOA_X
ClientSampleId :
RO-290535

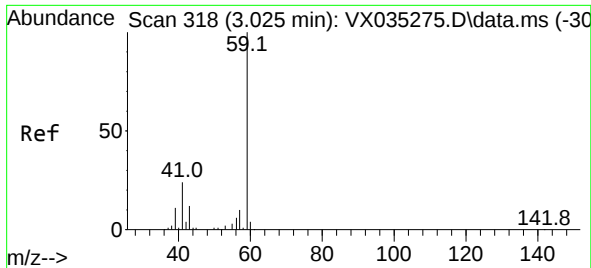
Tgt Ion:168 Resp: 312085
Ion Ratio Lower Upper
168 100
99 53.1 45.7 68.5



#3
Chloromethane
Concen: 0.315 ug/l
RT: 1.288 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

Tgt Ion: 50 Resp: 945
Ion Ratio Lower Upper
50 100
52 28.7 25.9 38.9

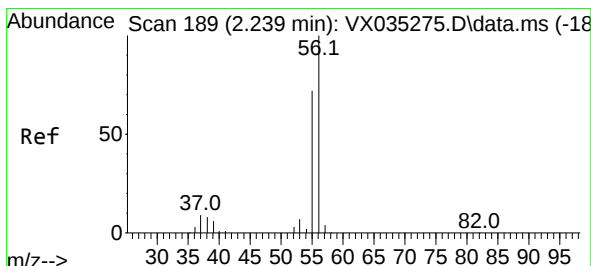
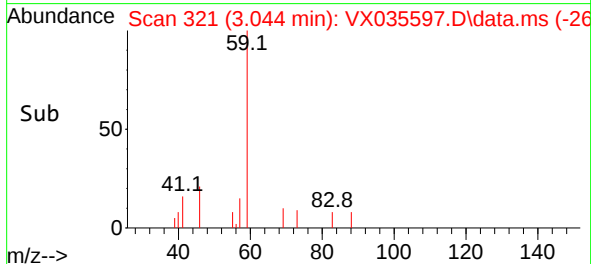
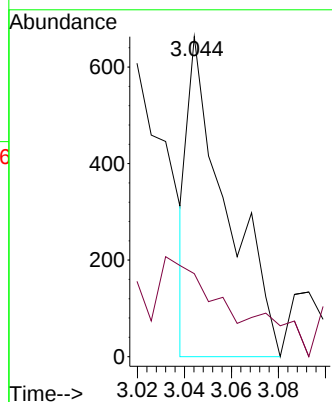
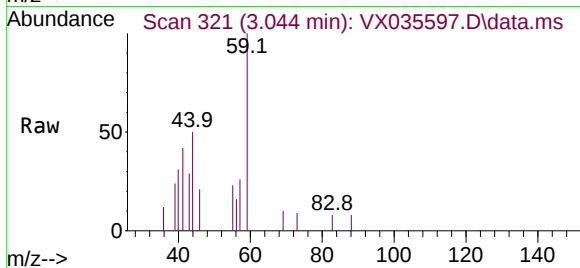




#11
Tert butyl alcohol
Concen: 1.087 ug/l
RT: 3.044 min Scan# 318
Delta R.T. 0.019 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

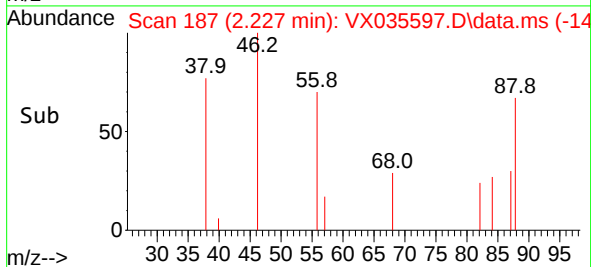
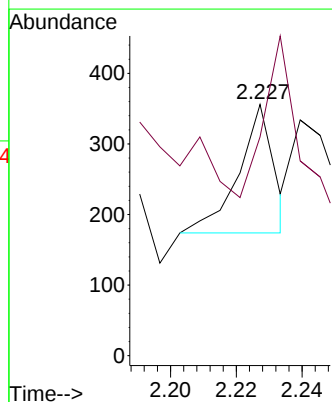
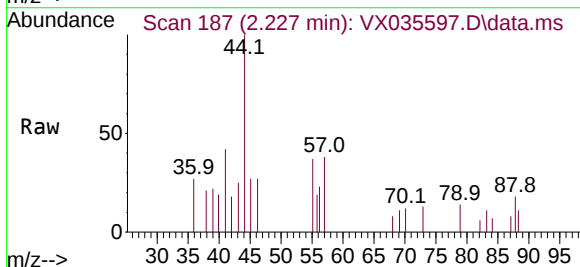
Instrument :
MSVOA_X
ClientSampleId :
RO-290535

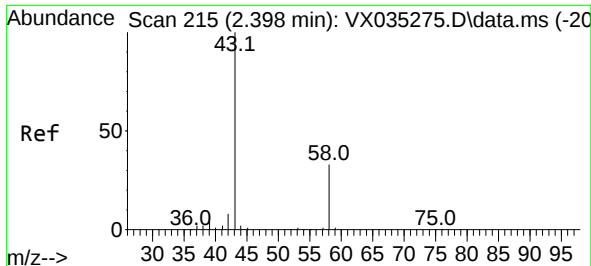
Tgt Ion: 59 Resp: 745
Ion Ratio Lower Upper
59 100
57 46.8 8.1 12.1#



#13
Acrolein
Concen: 0.202 ug/l
RT: 2.227 min Scan# 187
Delta R.T. -0.012 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

Tgt Ion: 56 Resp: 136
Ion Ratio Lower Upper
56 100
55 146.3 56.6 85.0#





#16

Acetone

Concen: 18.062 ug/l

RT: 2.398 min Scan# 215

Delta R.T. -0.000 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

Instrument :

MSVOA_X

ClientSampleId :

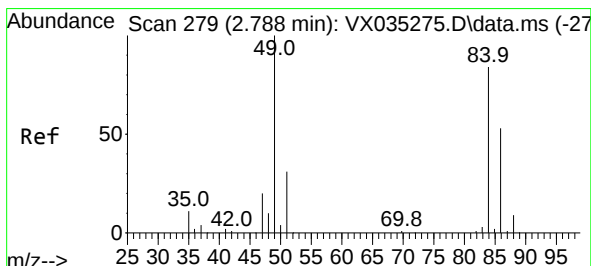
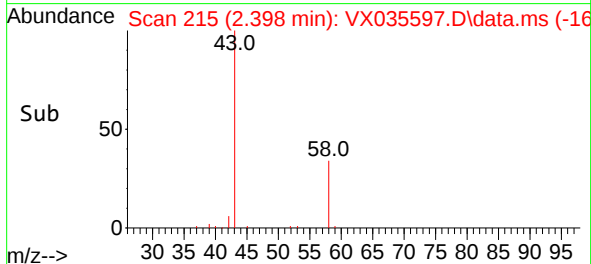
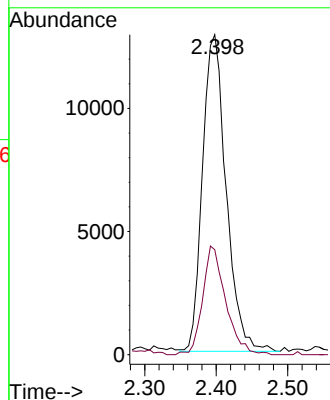
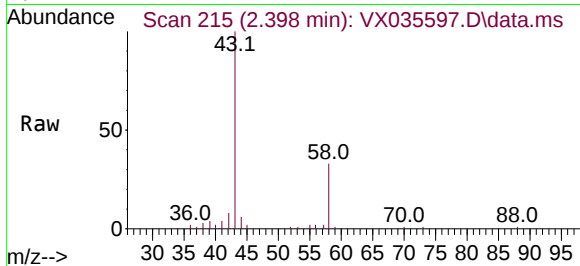
RO-290535

Tgt Ion: 43 Resp: 29536

Ion Ratio Lower Upper

43 100

58 33.1 24.7 37.1



#20

Methylene Chloride

Concen: 1.335 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

Tgt Ion: 84 Resp: 5006

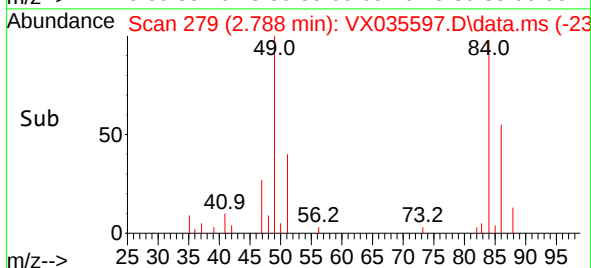
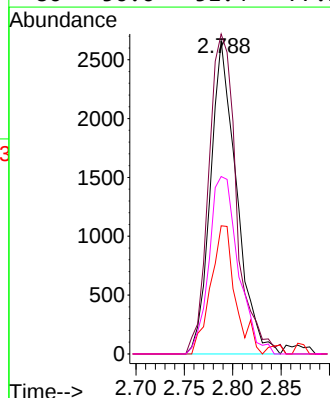
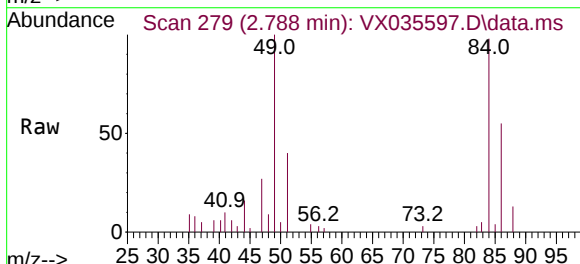
Ion Ratio Lower Upper

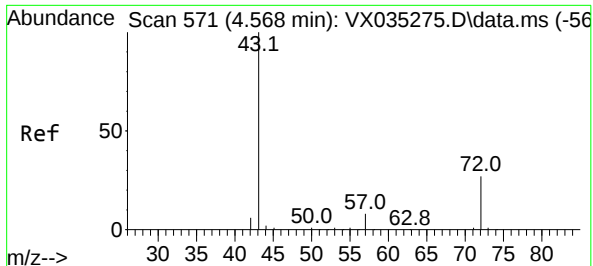
84 100

49 102.1 103.8 155.8#

51 40.9 31.8 47.8

86 56.6 51.4 77.2

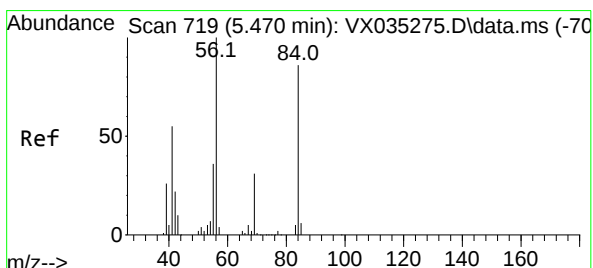
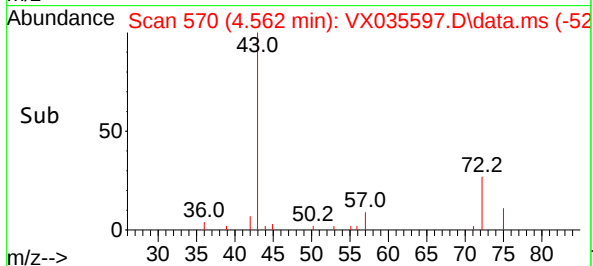
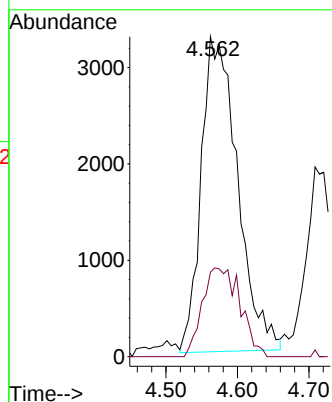
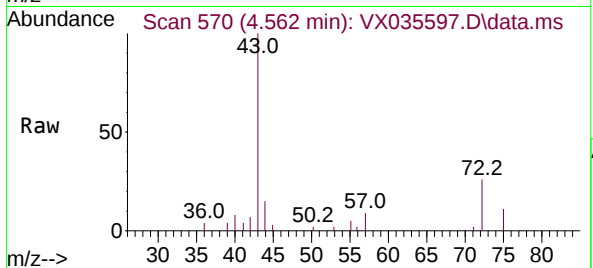




#25
2-Butanone
Concen: 4.819 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.006 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

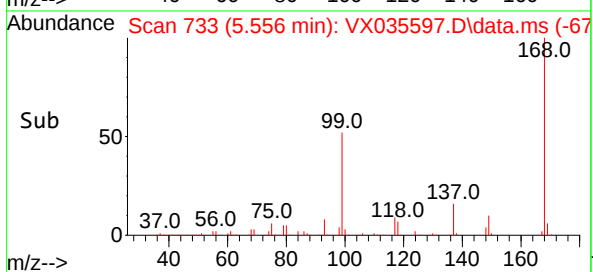
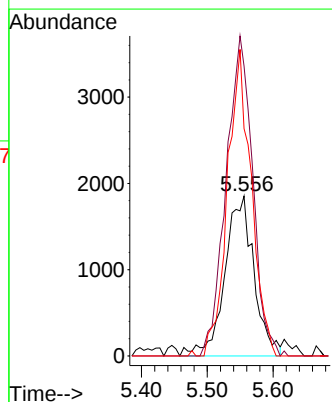
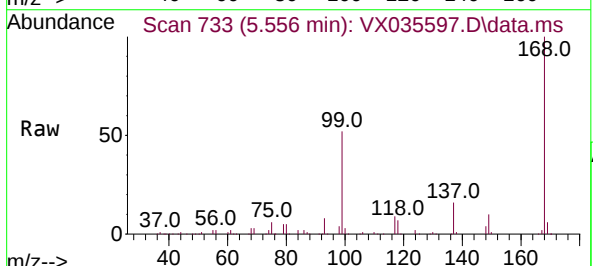
Instrument :
MSVOA_X
ClientSampleId :
RO-290535

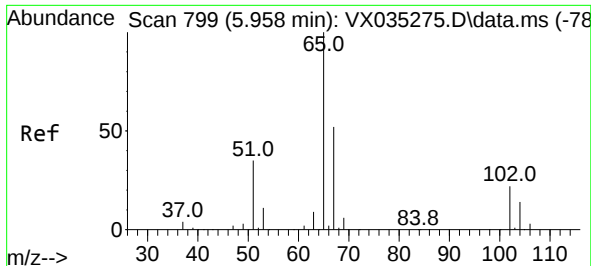
Tgt Ion: 43 Resp: 11503
Ion Ratio Lower Upper
43 100
72 27.0 19.3 28.9



#31
Cyclohexane
Concen: 1.069 ug/l
RT: 5.556 min Scan# 733
Delta R.T. 0.086 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

Tgt Ion: 56 Resp: 5709
Ion Ratio Lower Upper
56 100
69 181.4 23.7 35.5#
84 142.2 68.5 102.7#





#33

1,2-Dichloroethane-d4

Concen: 42.261 ug/l

RT: 5.952 min Scan# 79

Delta R.T. -0.006 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

Instrument :

MSVOA_X

ClientSampleId :

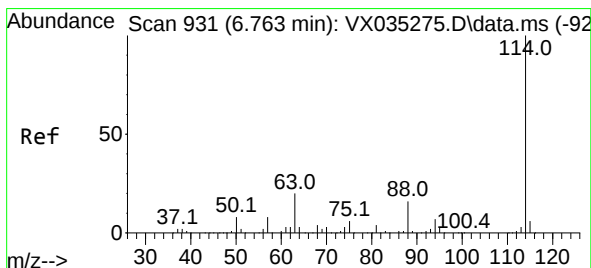
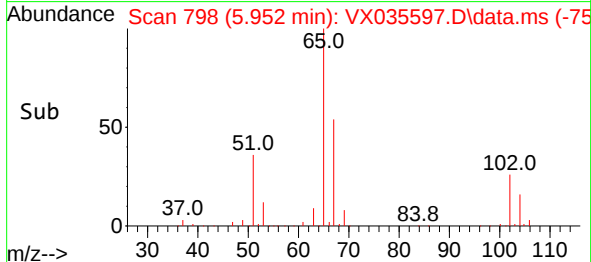
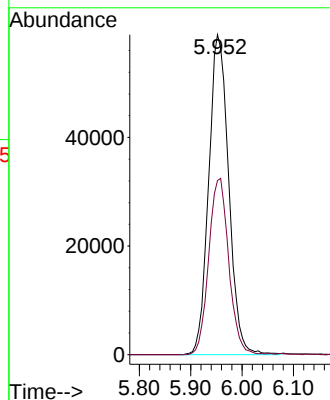
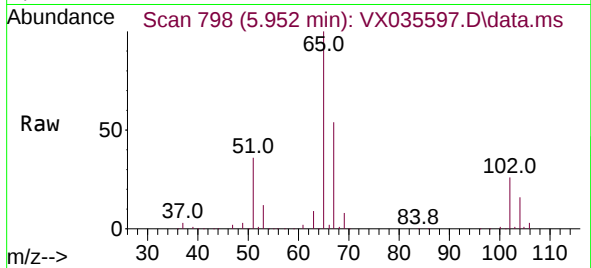
RO-290535

Tgt Ion: 65 Resp: 159117

Ion Ratio Lower Upper

65 100

67 55.3 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.006 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

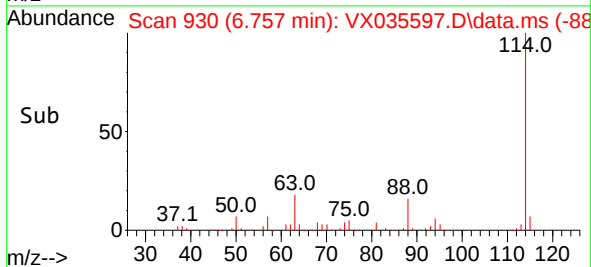
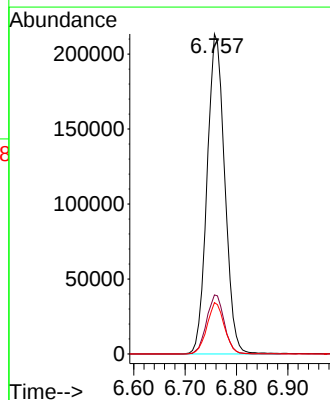
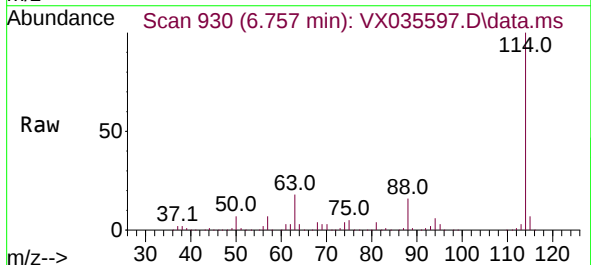
Tgt Ion: 114 Resp: 509136

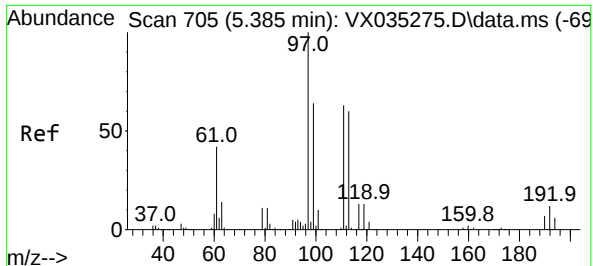
Ion Ratio Lower Upper

114 100

63 18.4 0.0 42.2

88 16.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.205 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

Instrument :

MSVOA_X

ClientSampleId :

RO-290535

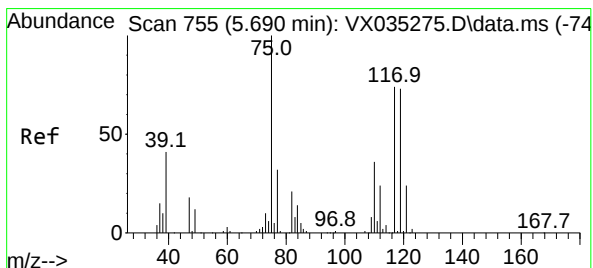
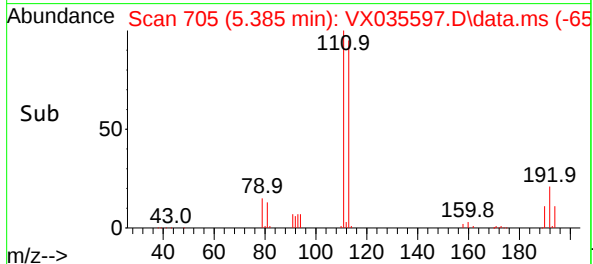
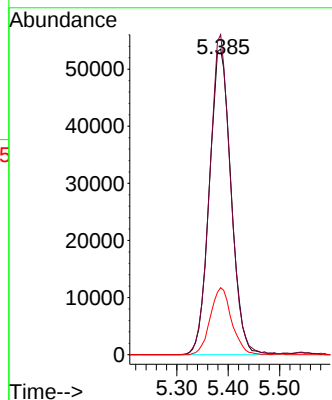
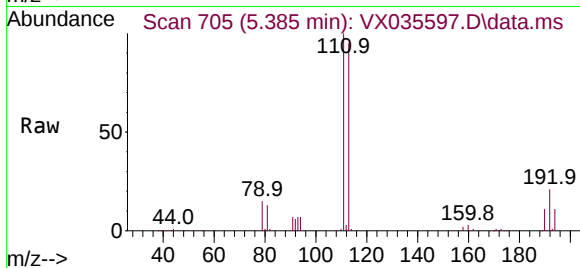
Tgt Ion:113 Resp: 156886

Ion Ratio Lower Upper

113 100

111 101.3 83.7 125.5

192 21.6 15.4 23.2



#36

1,1-Dichloropropene

Concen: 4.199 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.140 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

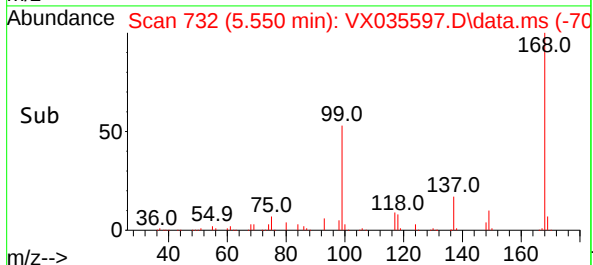
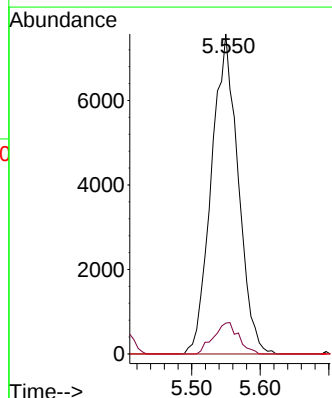
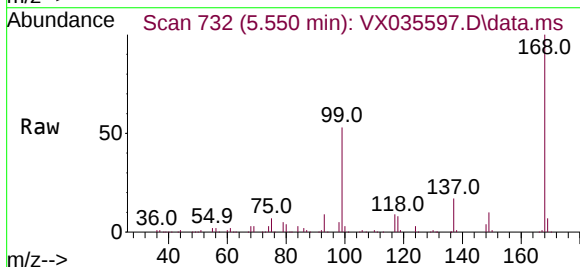
Tgt Ion: 75 Resp: 20490

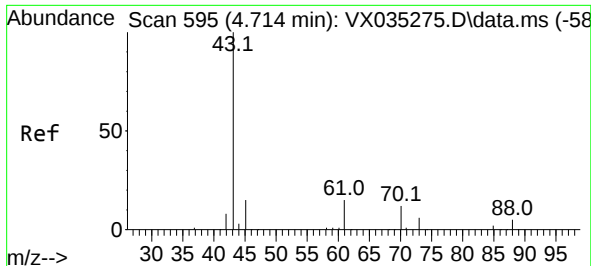
Ion Ratio Lower Upper

75 100

110 9.2 17.5 52.5#

77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 1.310 ug/l

RT: 4.708 min Scan# 594

Delta R.T. -0.006 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

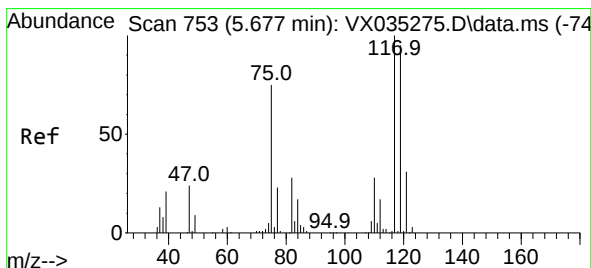
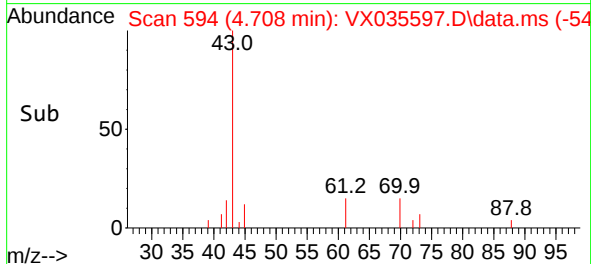
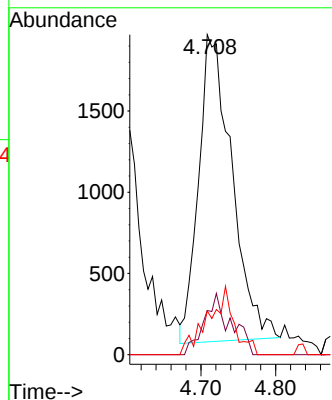
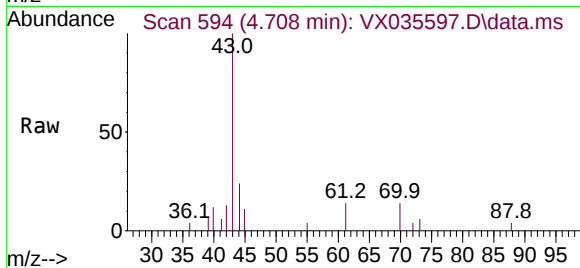
Instrument :

MSVOA_X

ClientSampleId :

RO-290535

Tgt Ion:	43	Resp:	5836
Ion	Ratio	Lower	Upper
43	100		
61	16.1	10.2	15.4#
70	0.0	8.2	12.4#



#38

Carbon Tetrachloride

Concen: 6.214 ug/l

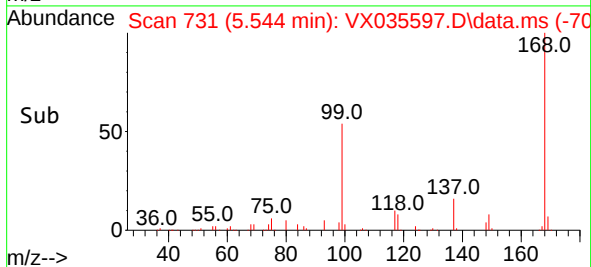
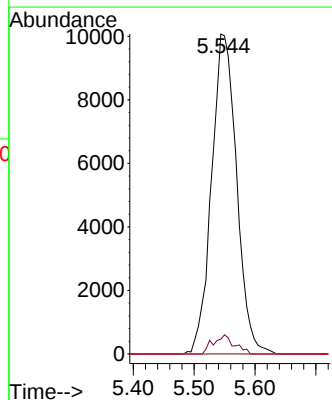
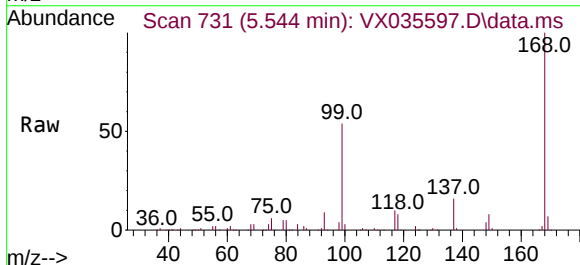
RT: 5.544 min Scan# 731

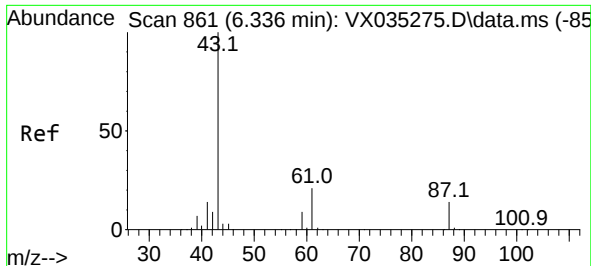
Delta R.T. -0.133 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

Tgt Ion:	117	Resp:	28785
Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.6	114.8#
121	0.0	23.8	35.6#

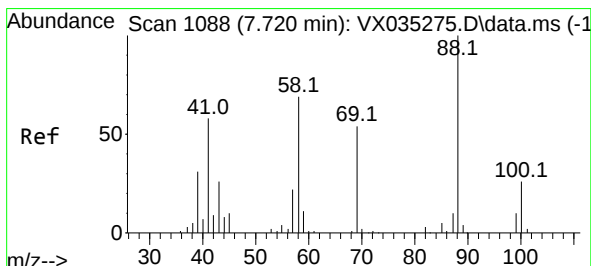
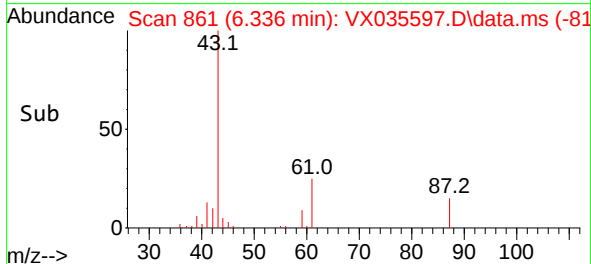
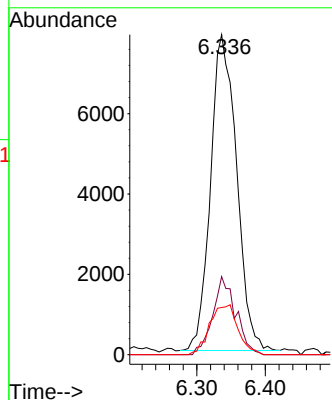
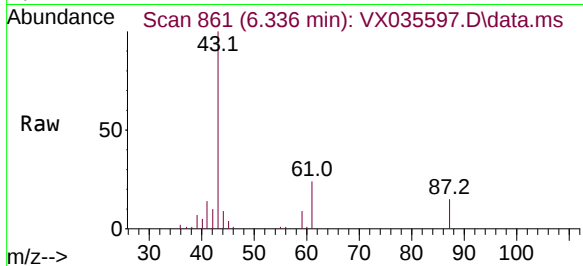




#43
Isopropyl Acetate
Concen: 2.769 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.000 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

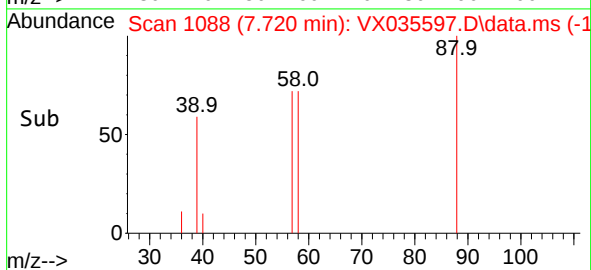
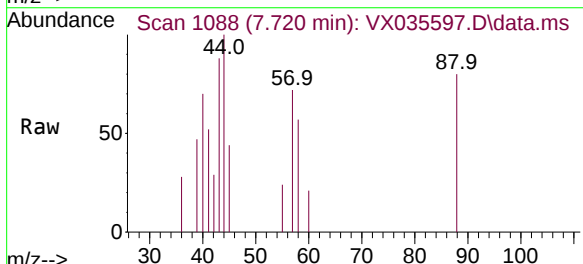
Instrument :
MSVOA_X
ClientSampleId :
RO-290535

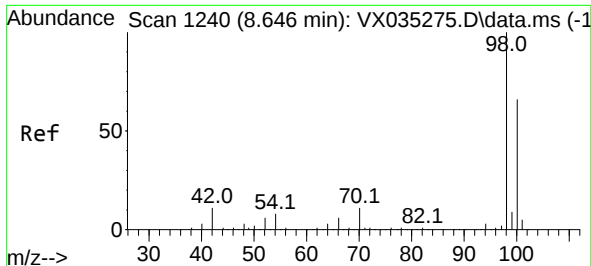
Tgt Ion: 43 Resp: 20735
Ion Ratio Lower Upper
43 100
61 21.8 15.2 22.8
87 17.1 9.8 14.8#



#49
1,4-Dioxane
Concen: 1.608 ug/l
RT: 7.720 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

Tgt Ion: 88 Resp: 144
Ion Ratio Lower Upper
88 100
43 0.0 27.7 41.5#
58 0.0 56.8 85.2#

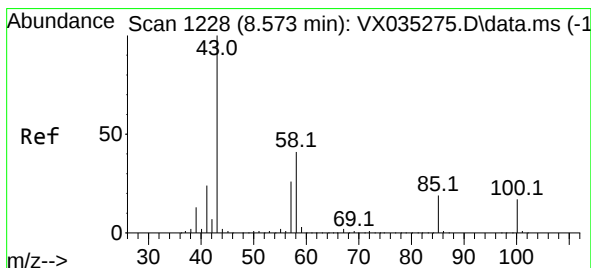
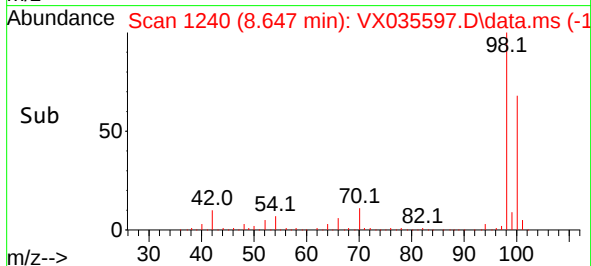
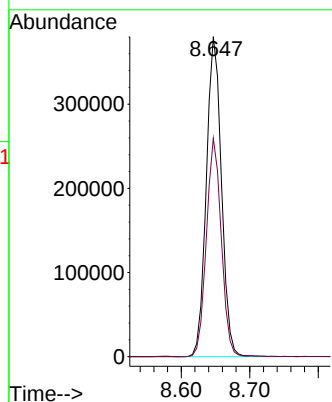
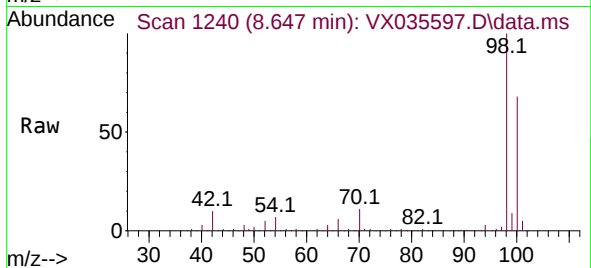




#50
Toluene-d8
Concen: 49.583 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

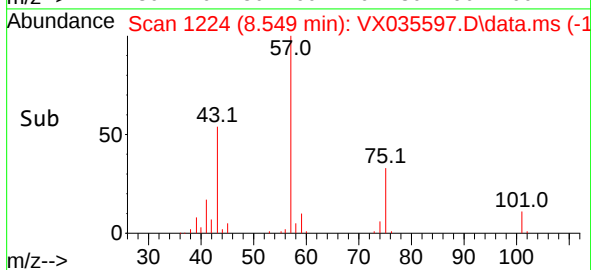
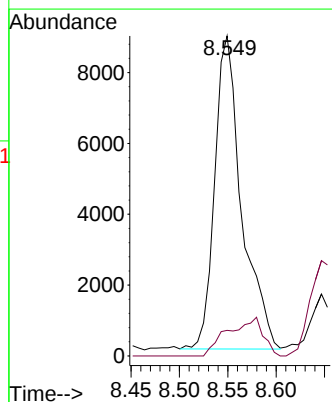
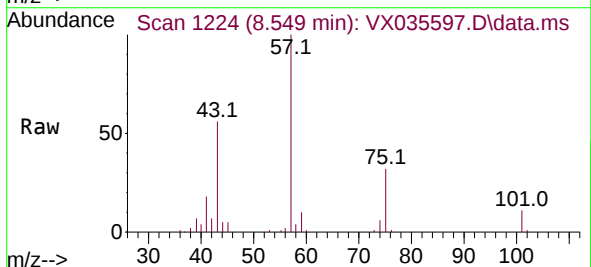
Instrument :
MSVOA_X
ClientSampleId :
RO-290535

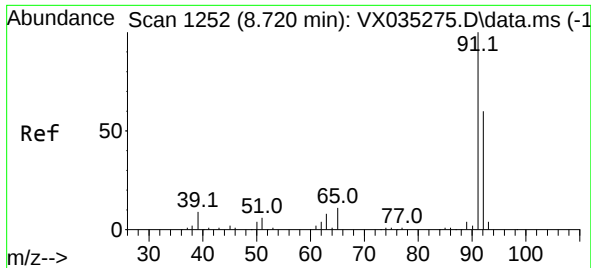
Tgt Ion: 98 Resp: 584500
Ion Ratio Lower Upper
98 100
100 67.2 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 3.722 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

Tgt Ion: 43 Resp: 17123
Ion Ratio Lower Upper
43 100
58 0.0 30.6 46.0#





#52

Toluene

Concen: 1.384 ug/l

RT: 8.720 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

Instrument :

MSVOA_X

ClientSampleId :

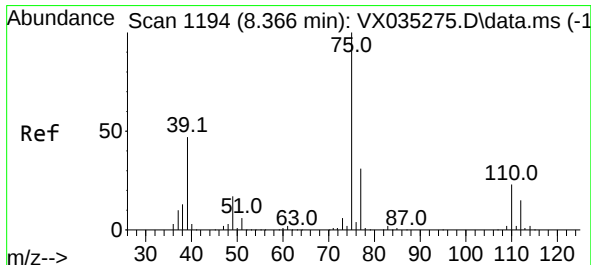
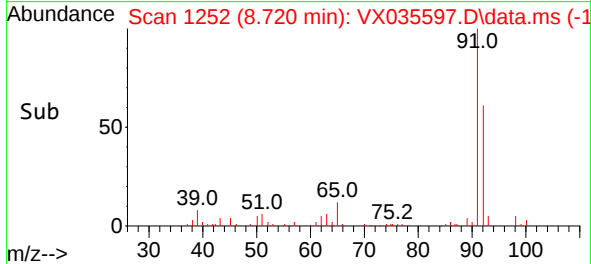
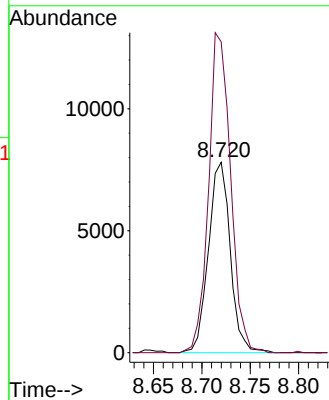
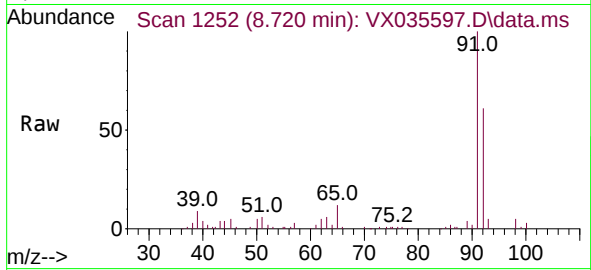
RO-290535

Tgt Ion: 92 Resp: 12279

Ion Ratio Lower Upper

92 100

91 169.2 136.8 205.2



#54

cis-1,3-Dichloropropene

Concen: 1.482 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

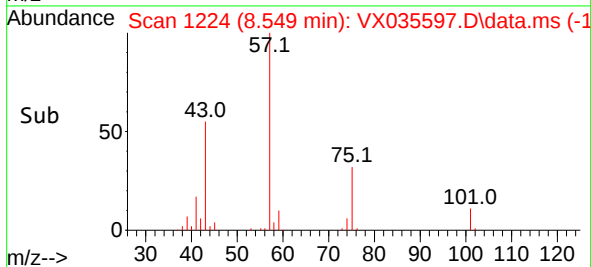
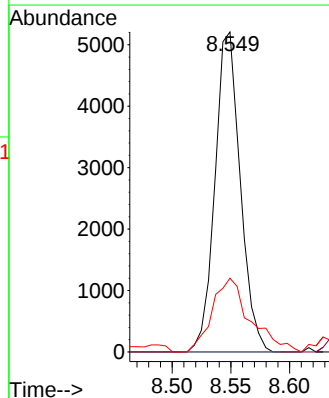
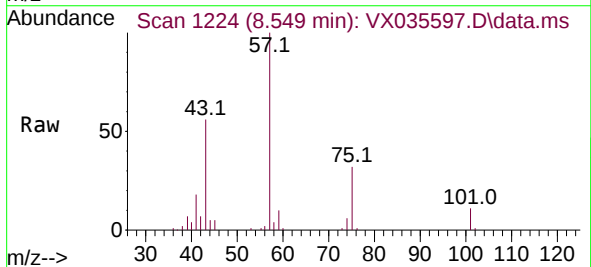
Tgt Ion: 75 Resp: 7811

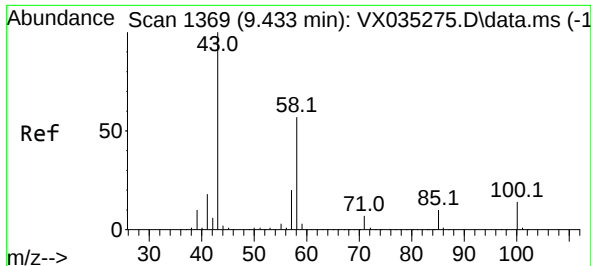
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 23.0 44.6 66.8#





#59

2-Hexanone

Concen: 0.711 ug/l

RT: 9.433 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

Instrument :

MSVOA_X

ClientSampleId :

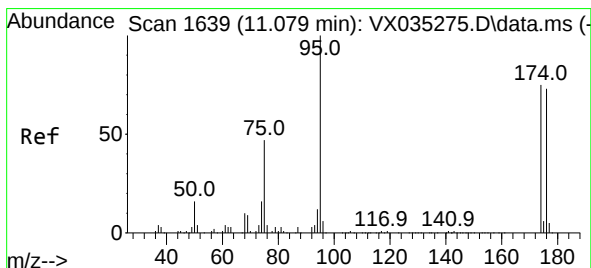
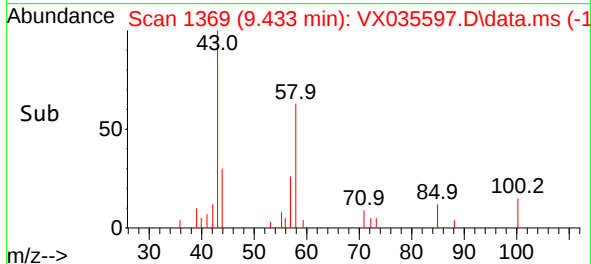
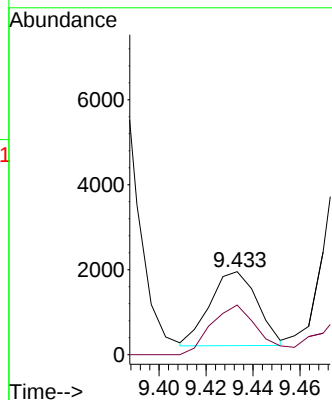
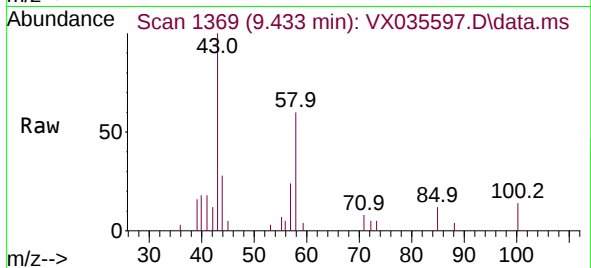
RO-290535

Tgt Ion: 43 Resp: 2457

Ion Ratio Lower Upper

43 100

58 67.3 26.3 78.9



#62

4-Bromofluorobenzene

Concen: 53.159 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

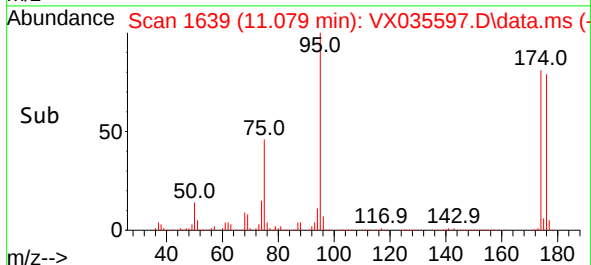
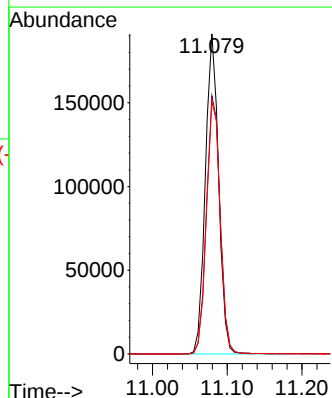
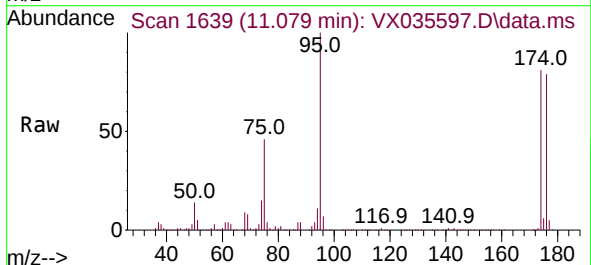
Tgt Ion: 95 Resp: 235733

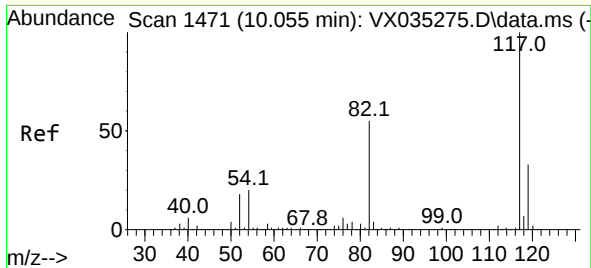
Ion Ratio Lower Upper

95 100

174 83.1 0.0 147.4

176 81.9 0.0 140.6

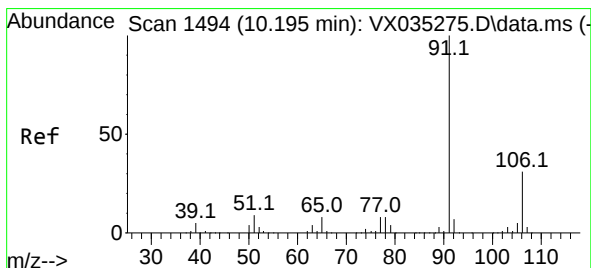
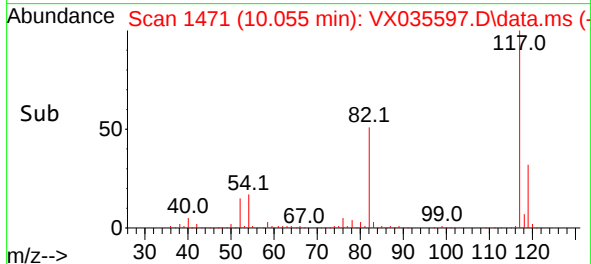
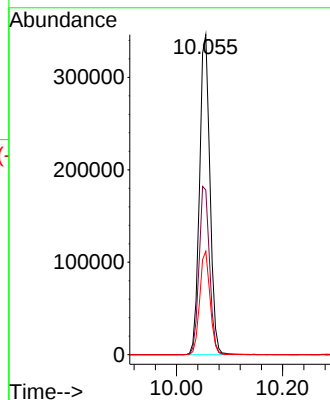
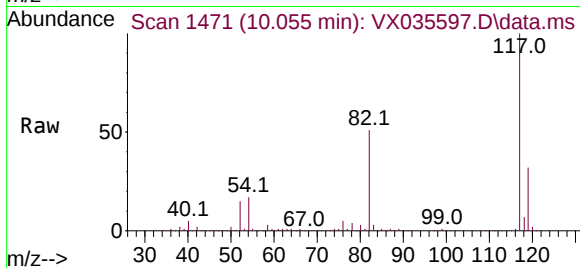




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

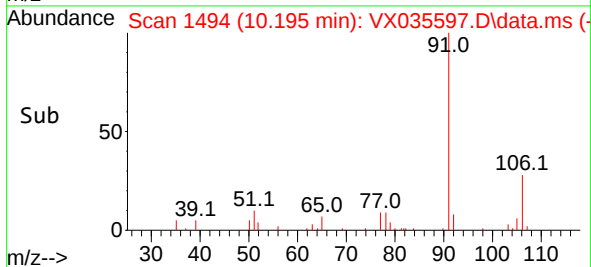
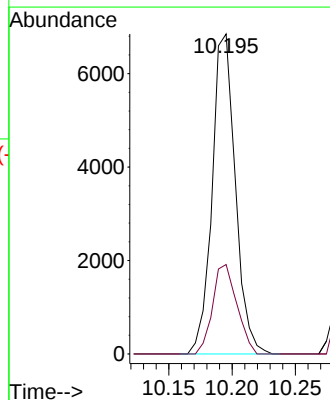
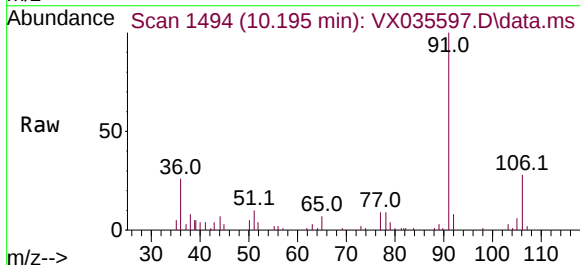
Instrument :
MSVOA_X
ClientSampleId :
RO-290535

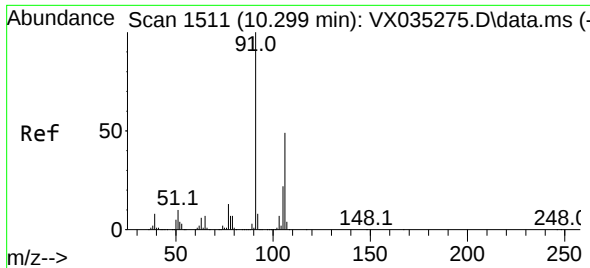
Tgt Ion:117 Resp: 473242
Ion Ratio Lower Upper
117 100
82 51.5 45.0 67.4
119 32.4 26.0 39.0



#67
Ethyl Benzene
Concen: 0.493 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

Tgt Ion: 91 Resp: 8748
Ion Ratio Lower Upper
91 100
106 28.0 25.6 38.4

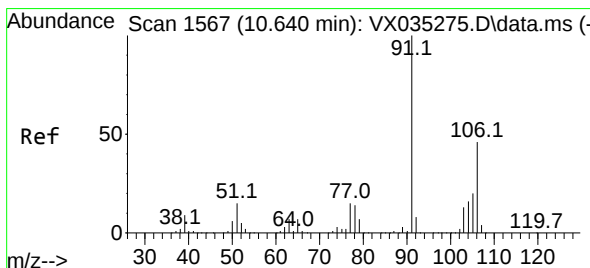
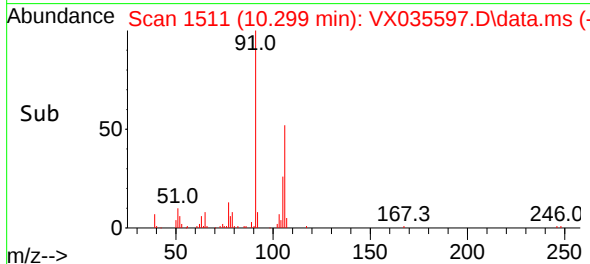
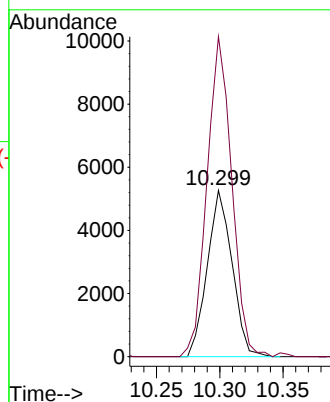
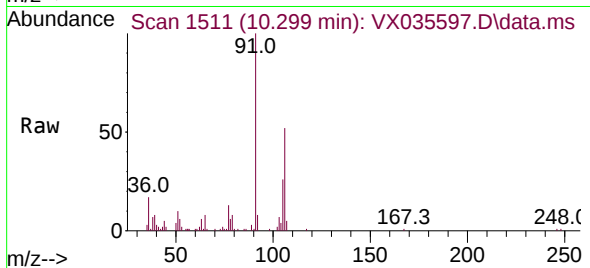




#68
m/p-Xylenes
Concen: 1.058 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

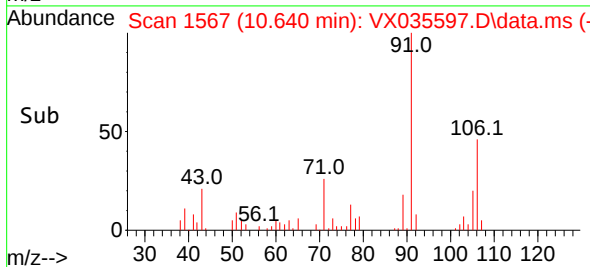
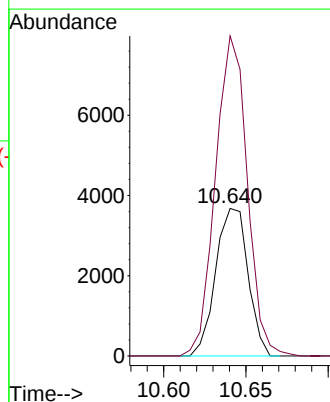
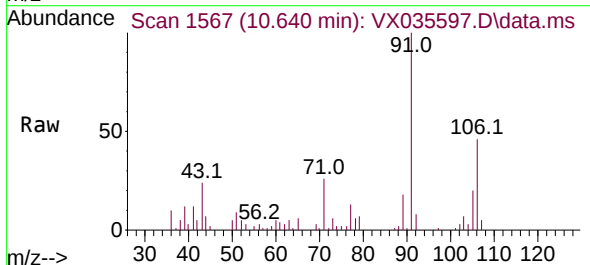
Instrument :
MSVOA_X
ClientSampleId :
RO-290535

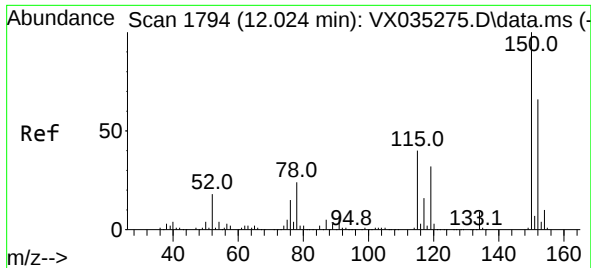
Tgt Ion:106 Resp: 7190
Ion Ratio Lower Upper
106 100
91 192.2 164.0 246.0



#69
o-Xylene
Concen: 0.755 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

Tgt Ion:106 Resp: 5027
Ion Ratio Lower Upper
106 100
91 213.3 108.5 325.3

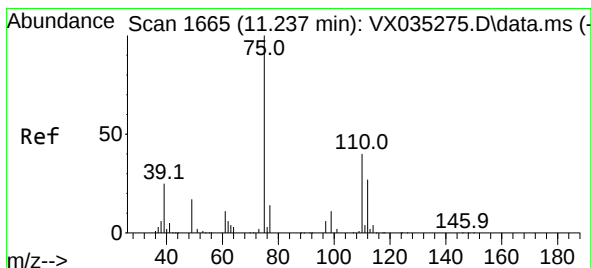
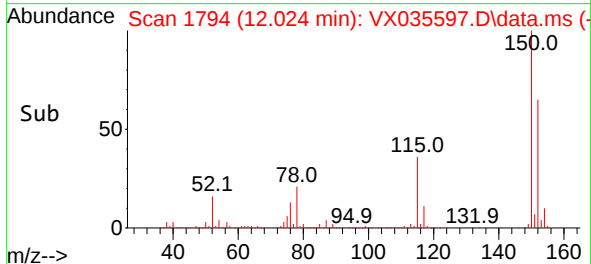
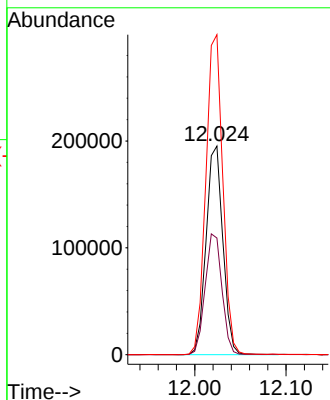
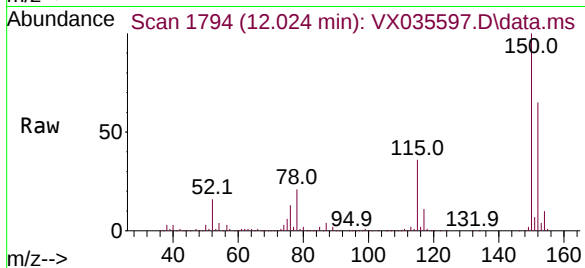




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

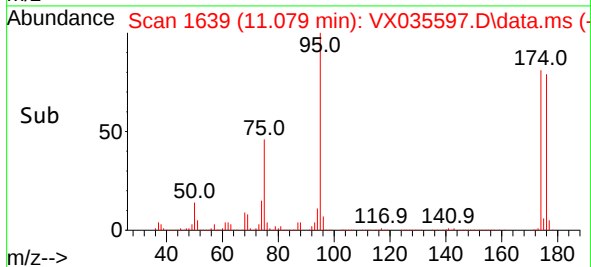
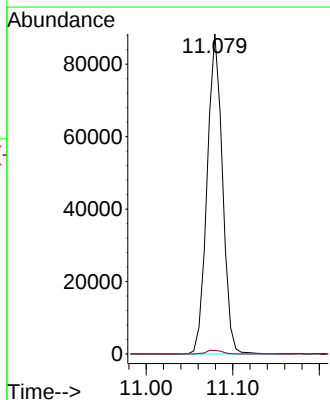
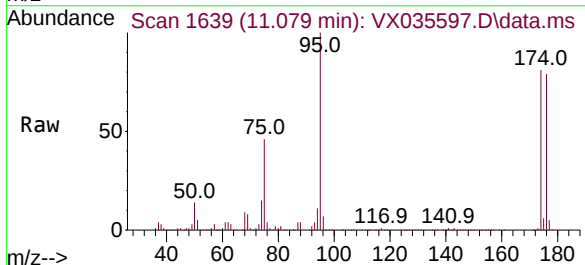
Instrument :
MSVOA_X
ClientSampleId :
RO-290535

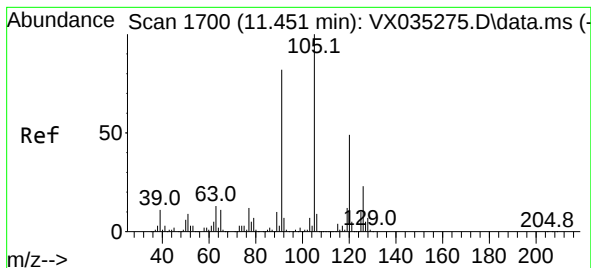
Tgt Ion:152 Resp: 248154
Ion Ratio Lower Upper
152 100
115 58.0 45.0 135.0
150 154.8 0.0 352.4



#76
1,2,3-Trichloropropane
Concen: 21.945 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

Tgt Ion: 75 Resp: 108632
Ion Ratio Lower Upper
75 100
77 1.2 21.6 64.8#





#80

1,3,5-Trimethylbenzene

Concen: 0.246 ug/l

RT: 11.451 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

Instrument :

MSVOA_X

ClientSampleId :

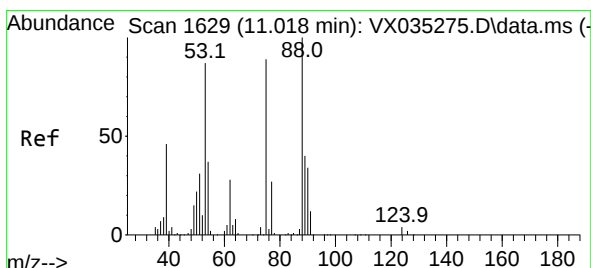
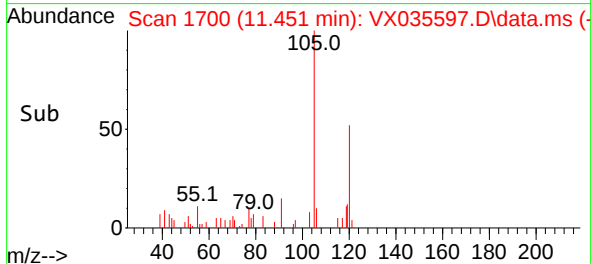
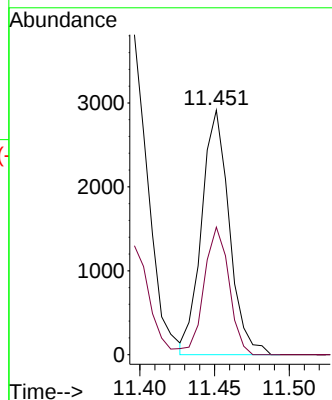
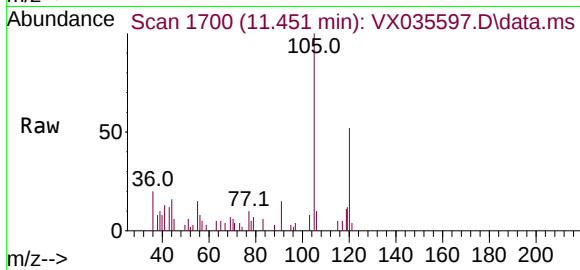
RO-290535

Tgt Ion:105 Resp: 3761

Ion Ratio Lower Upper

105 100

120 47.3 23.7 71.1



#81

trans-1,4-Dichloro-2-butene

Concen: 71.077 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX035597.D

Acq: 10 May 2023 19:29

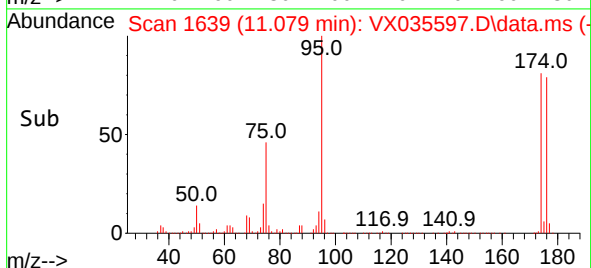
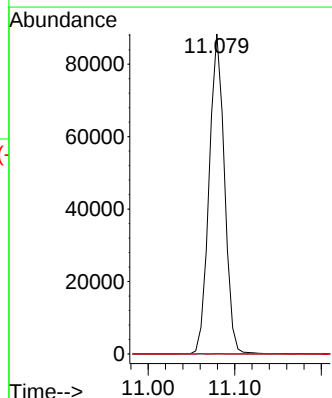
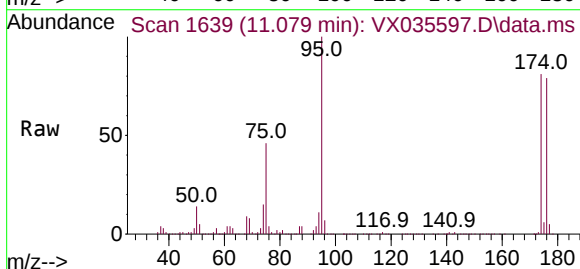
Tgt Ion: 75 Resp: 108632

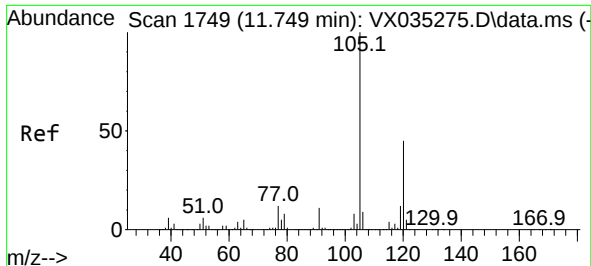
Ion Ratio Lower Upper

75 100

53 0.0 82.6 124.0#

89 0.0 36.9 55.3#

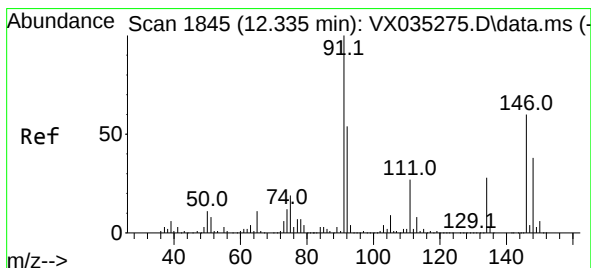
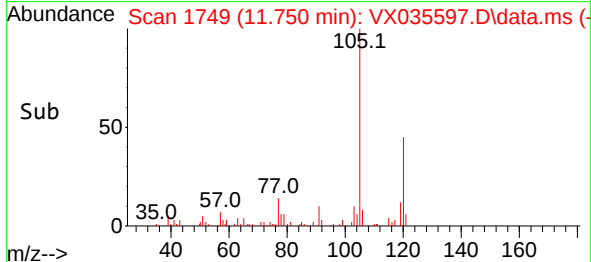
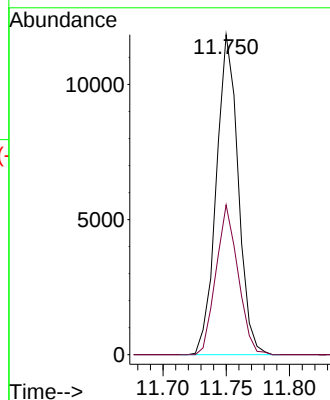
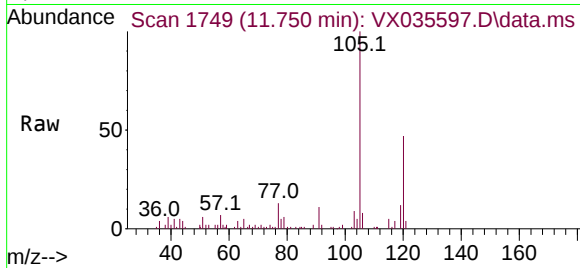




#84
1,2,4-Trimethylbenzene
Concen: 0.925 ug/l
RT: 11.750 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

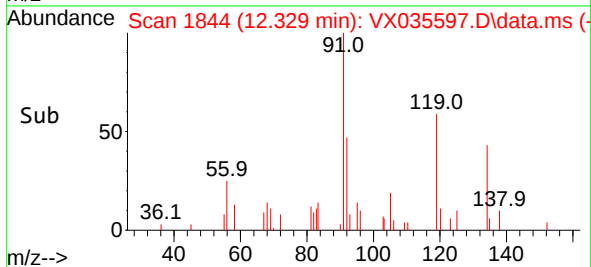
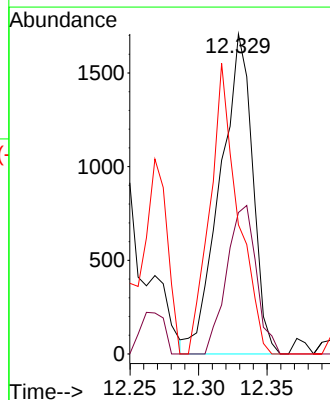
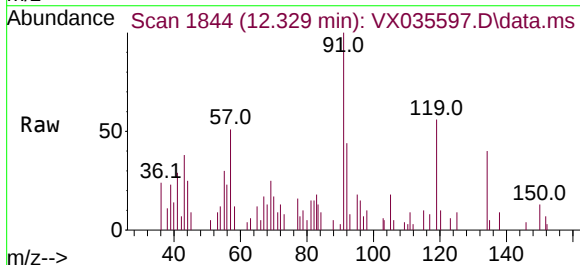
Instrument :
MSVOA_X
ClientSampleId :
RO-290535

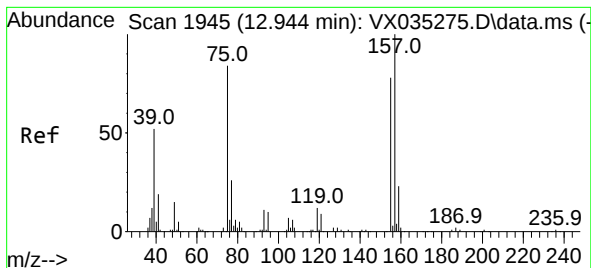
Tgt Ion:105 Resp: 14221
Ion Ratio Lower Upper
105 100
120 47.2 22.4 67.0



#89
n-Butylbenzene
Concen: 0.209 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.006 min
Lab File: VX035597.D
Acq: 10 May 2023 19:29

Tgt Ion: 91 Resp: 2822
Ion Ratio Lower Upper
91 100
92 42.3 27.7 83.0
134 78.2 13.0 38.9#

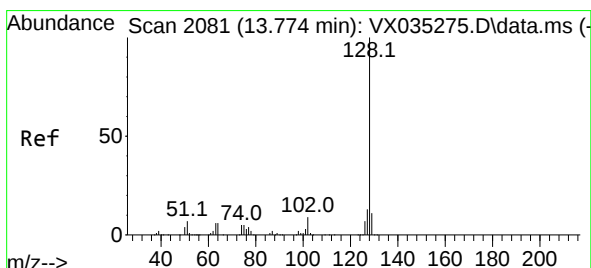
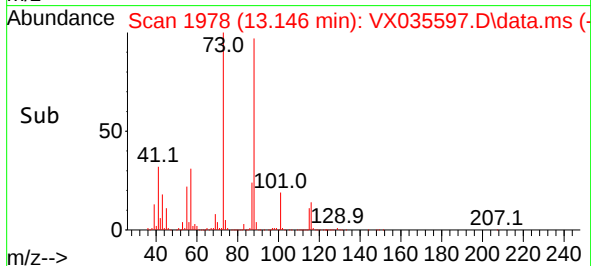
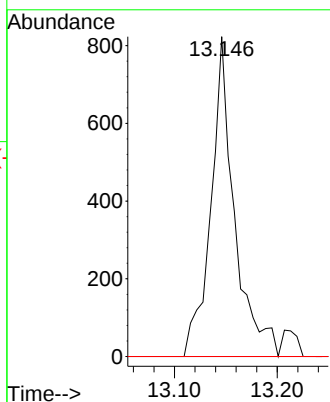
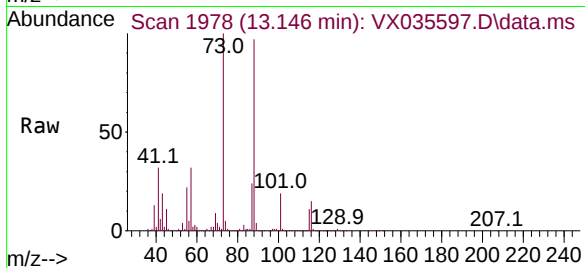




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.155 ug/l
 RT: 13.146 min Scan# 1945
 Delta R.T. 0.202 min
 Lab File: VX035597.D
 Acq: 10 May 2023 19:29

Instrument :
 MSVOA_X
 ClientSampleId :
 RO-290535

Tgt Ion: 75 Resp: 1304
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.4 115.1#
 157 0.0 49.9 149.7#



#95
 Naphthalene
 Concen: 0.385 ug/l
 RT: 13.774 min Scan# 2081
 Delta R.T. -0.000 min
 Lab File: VX035597.D
 Acq: 10 May 2023 19:29

Tgt Ion: 128 Resp: 6388
 Ion Ratio Lower Upper
 128 100
 127 14.5 10.2 15.4
 129 14.0 8.6 13.0#

