

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050523\
 Data File : VX035538.D
 Acq On : 05 May 2023 16:02
 Operator : JC/MD
 Sample : 02615-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-3

Quant Time: May 08 00:51:39 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)

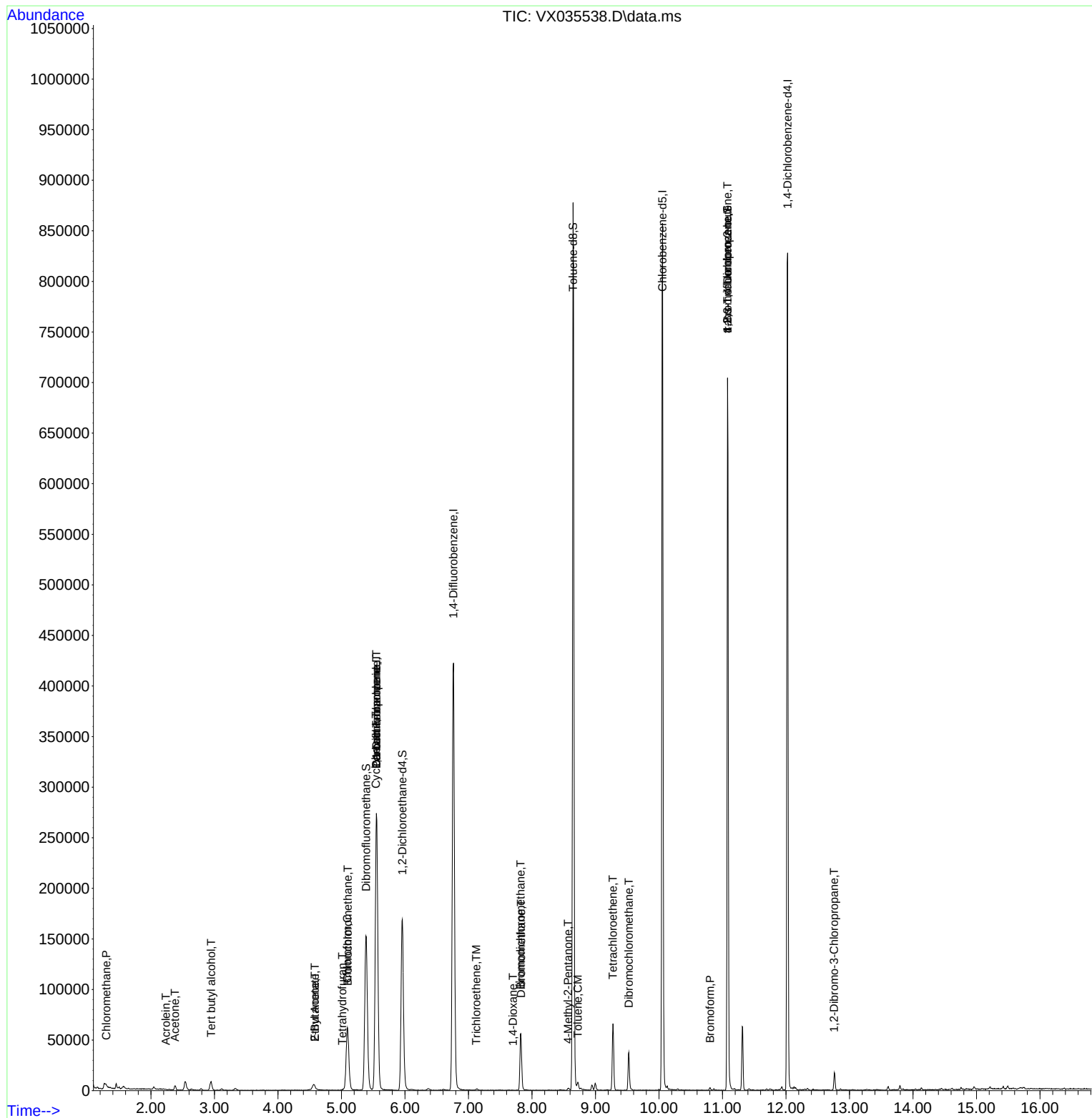
Internal Standards						
1) Pentafluorobenzene	5.550	168	267801	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	444413	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	400824	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	185469	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	163385	50.570	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.140%			
35) Dibromofluoromethane	5.385	113	137860	50.541	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.080%			
50) Toluene-d8	8.647	98	519823	50.519	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.040%			
62) 4-Bromofluorobenzene	11.079	95	196403	50.740	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.480%			
Target Compounds						
					Qvalue	
3) Chloromethane	1.295	50	1142	0.443	ug/l #	88
11) Tert butyl alcohol	2.947	59	5540	9.417	ug/l #	73
13) Acrolein	2.233	56	143	0.247	ug/l #	77
16) Acetone	2.380	43	4918	3.505	ug/l #	88
25) 2-Butanone	4.581	43	1261	0.616	ug/l #	51
28) Bromochloromethane	5.099	49	5980	2.750	ug/l #	15
29) Tetrahydrofuran	5.013	42	353	0.269	ug/l #	56
30) Chloroform	5.093	83	76431	14.839	ug/l	99
31) Cyclohexane	5.544	56	5323	1.161	ug/l #	12
36) 1,1-Dichloropropene	5.550	75	20371	4.783	ug/l #	51
37) Ethyl Acetate	4.581	43	1261	0.324	ug/l #	70
38) Carbon Tetrachloride	5.550	117	26242	6.490	ug/l #	16
44) Trichloroethene	7.123	130	675	0.201	ug/l	50
46) Dibromomethane	7.830	93	1296	0.613	ug/l #	5
47) Bromodichloromethane	7.818	83	38048	9.763	ug/l	97
49) 1,4-Dioxane	7.702	88	49	0.627	ug/l #	9
51) 4-Methyl-2-Pentanone	8.568	43	2370	0.590	ug/l #	37
52) Toluene	8.720	92	2971	0.384	ug/l	87
60) Dibromochloromethane	9.525	129	13827	4.674	ug/l	97
64) Tetrachloroethene	9.275	164	1117	0.364	ug/l #	80
71) Bromoform	10.805	173	1102	0.525	ug/l #	88
76) 1,2,3-Trichloropropane	11.079	75	96610	26.113	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	96610	84.575	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	12.756	75	426	0.505	ug/l #	7

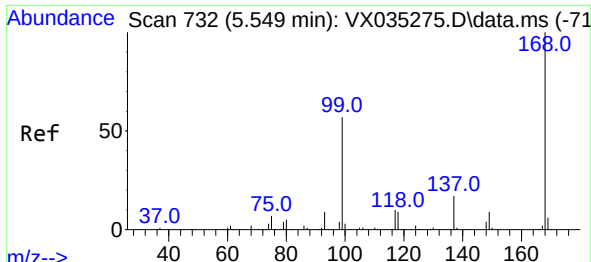
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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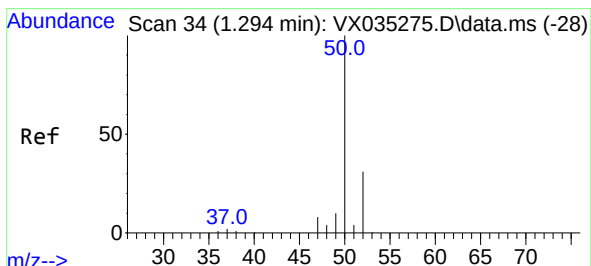
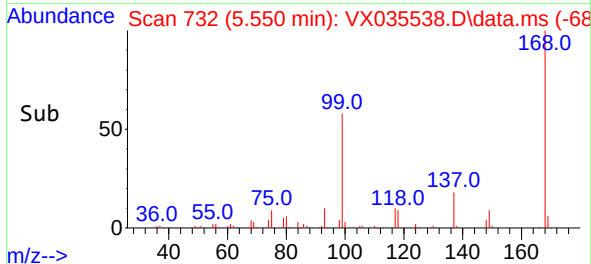
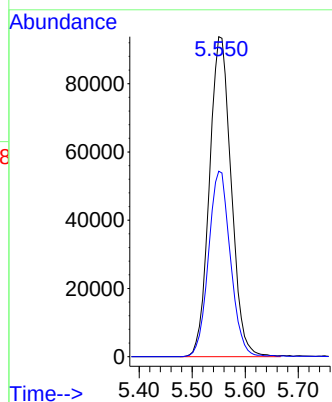
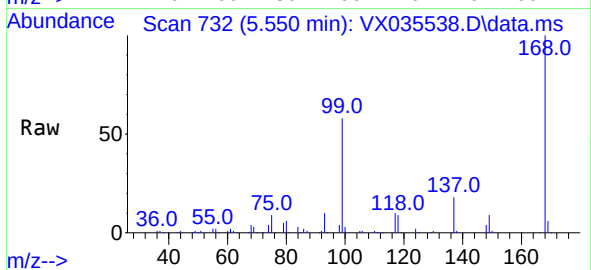




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

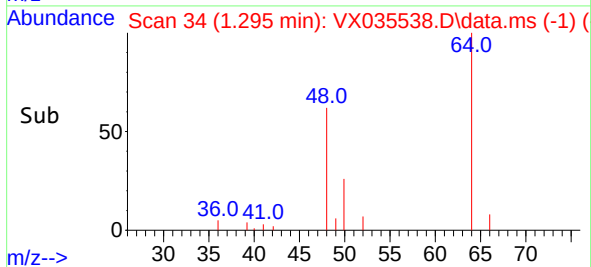
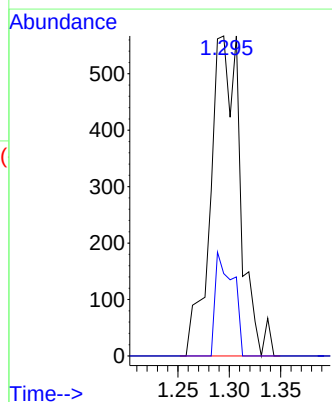
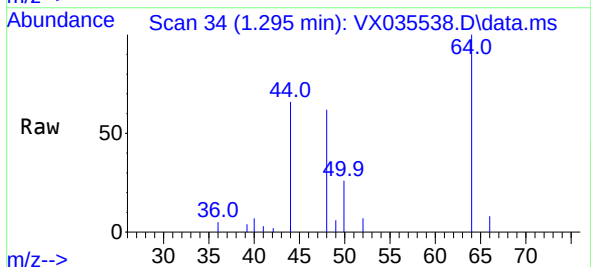
Instrument :
MSVOA_X
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002-3

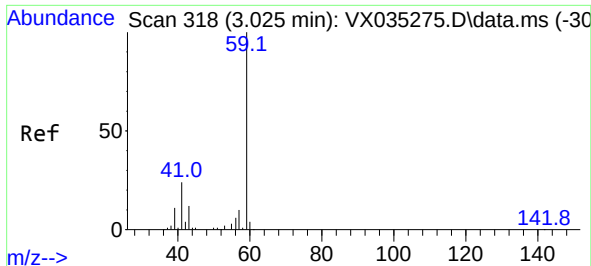
Tgt Ion:168 Resp: 267801
Ion Ratio Lower Upper
168 100
99 58.0 45.7 68.5



#3
Chloromethane
Concen: 0.443 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.001 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

Tgt Ion: 50 Resp: 1142
Ion Ratio Lower Upper
50 100
52 25.7 25.9 38.9#





#11

Tert butyl alcohol

Concen: 9.417 ug/l

RT: 2.947 min Scan# 30

Delta R.T. -0.078 min

Lab File: VX035538.D

Acq: 05 May 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

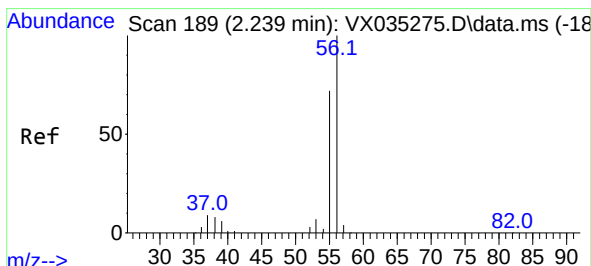
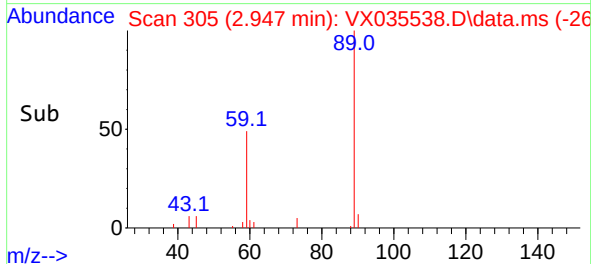
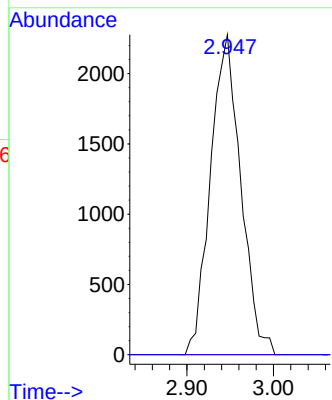
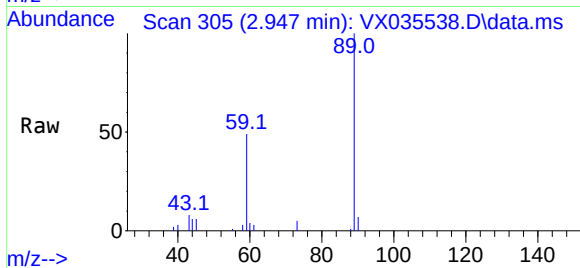
002-3

Tgt Ion: 59 Resp: 5540

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



#13

Acrolein

Concen: 0.247 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX035538.D

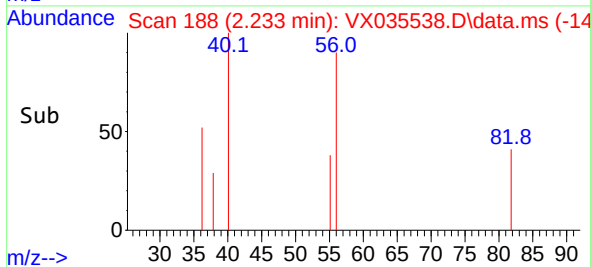
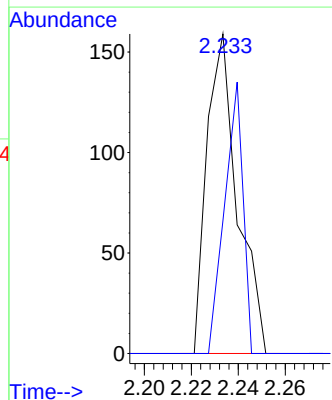
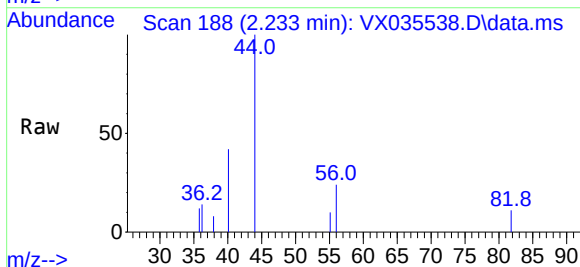
Acq: 05 May 2023 16:02

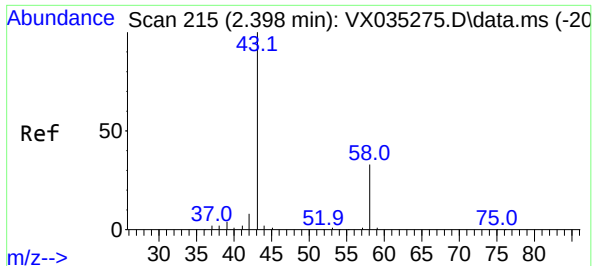
Tgt Ion: 56 Resp: 143

Ion Ratio Lower Upper

56 100

55 51.7 56.6 85.0#

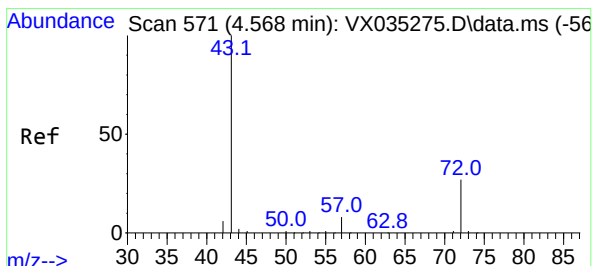
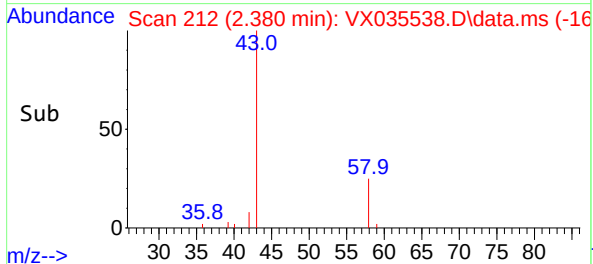
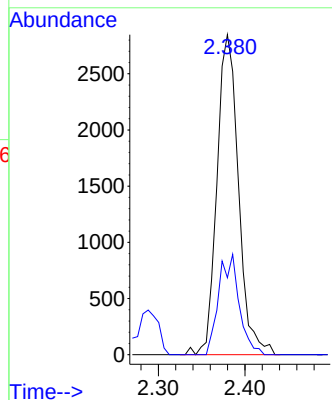
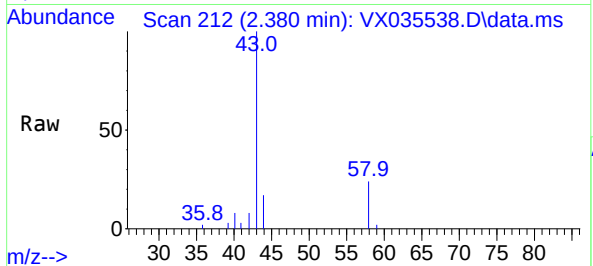




#16
Acetone
Concen: 3.505 ug/l
RT: 2.380 min Scan# 215
Delta R.T. -0.018 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

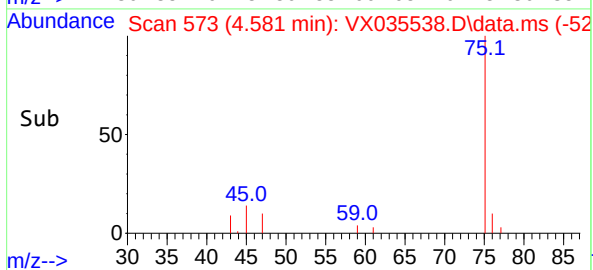
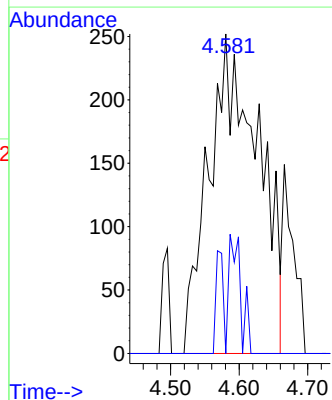
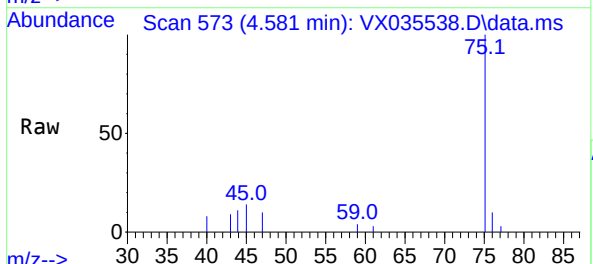
Instrument :
MSVOA_X
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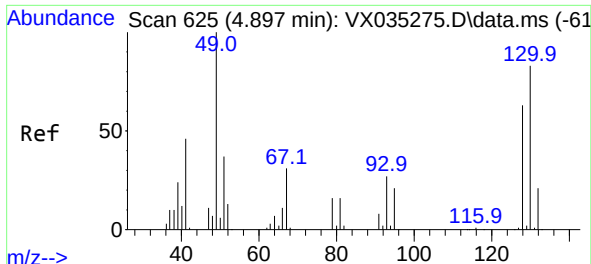
Tgt Ion: 43 Resp: 4918
Ion Ratio Lower Upper
43 100
58 24.1 24.7 37.1#



#25
2-Butanone
Concen: 0.616 ug/l
RT: 4.581 min Scan# 573
Delta R.T. 0.013 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

Tgt Ion: 43 Resp: 1261
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#

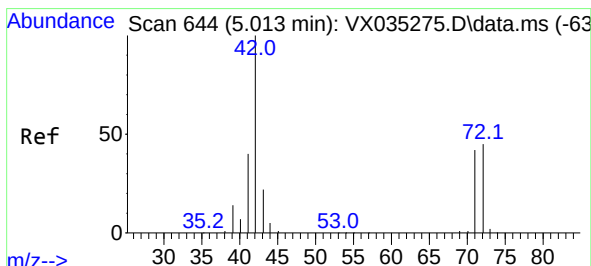
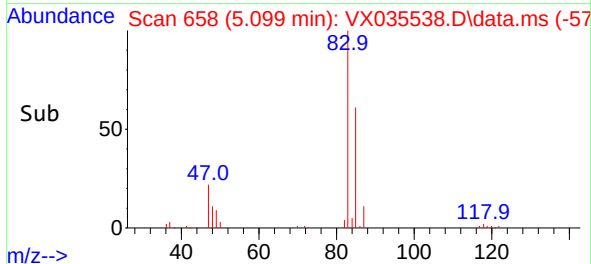
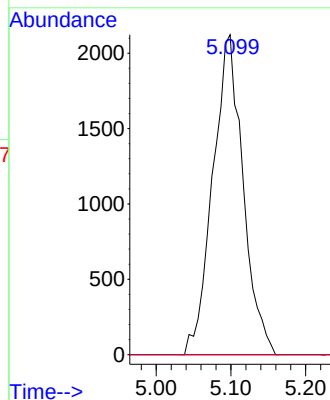
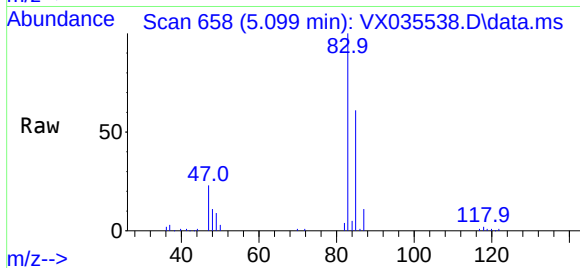




#28
Bromochloromethane
Concen: 2.750 ug/l
RT: 5.099 min Scan# 61
Delta R.T. 0.202 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

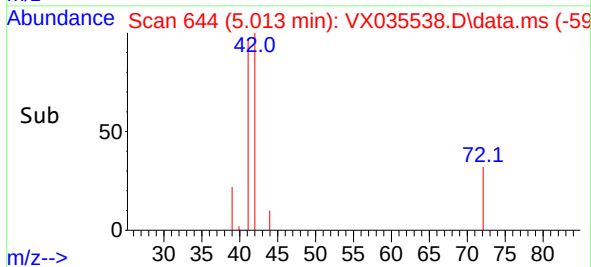
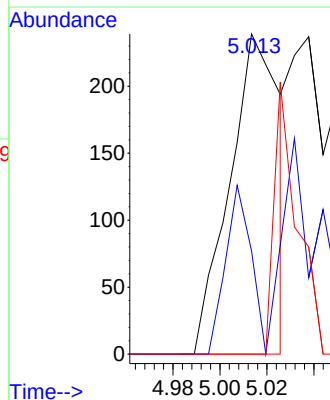
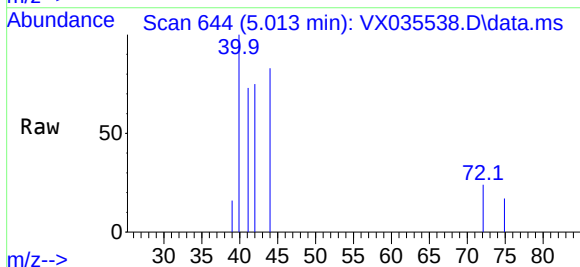
Instrument :
MSVOA_X
ClientSampleId :
002-3

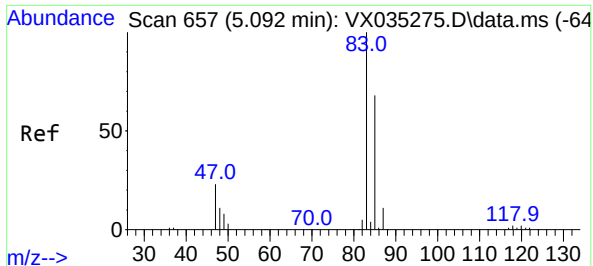
Tgt Ion: 49 Resp: 5980
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 0.0 58.2 87.2#



#29
Tetrahydrofuran
Concen: 0.269 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.000 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

Tgt Ion: 42 Resp: 353
Ion Ratio Lower Upper
42 100
72 26.9 34.5 51.7#
71 0.0 32.1 48.1#





#30

Chloroform

Concen: 14.839 ug/l

RT: 5.093 min Scan# 61

Delta R.T. 0.001 min

Lab File: VX035538.D

Acq: 05 May 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

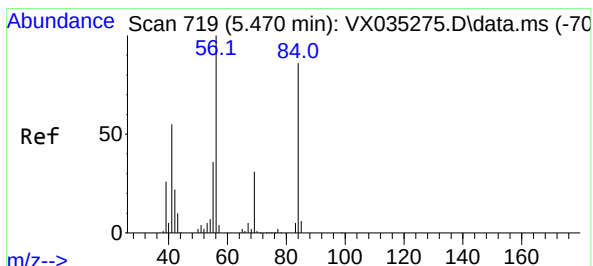
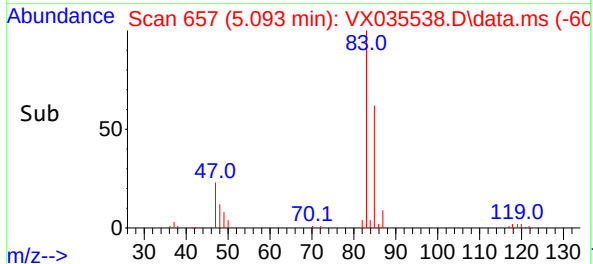
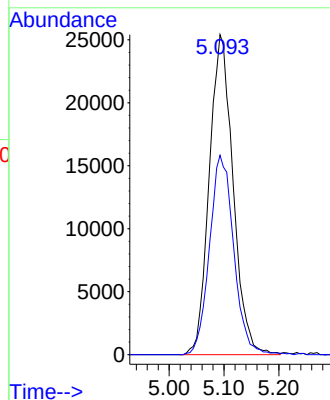
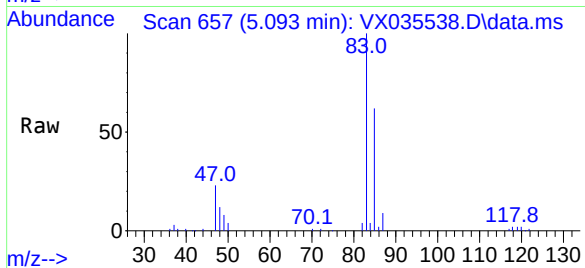
002-3

Tgt Ion: 83 Resp: 76431

Ion Ratio Lower Upper

83 100

85 62.3 50.6 76.0



#31

Cyclohexane

Concen: 1.161 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.074 min

Lab File: VX035538.D

Acq: 05 May 2023 16:02

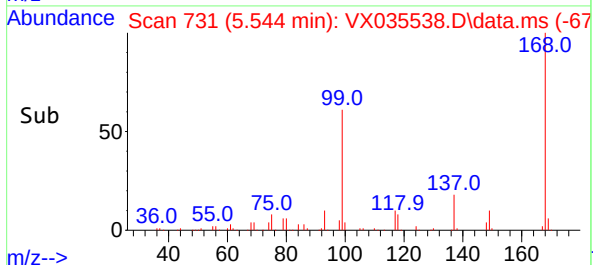
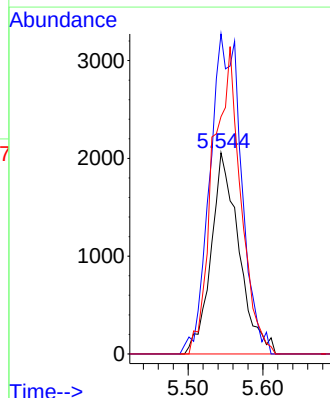
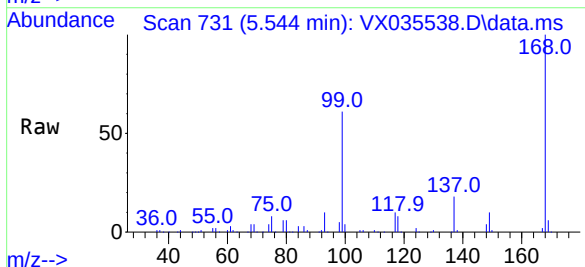
Tgt Ion: 56 Resp: 5323

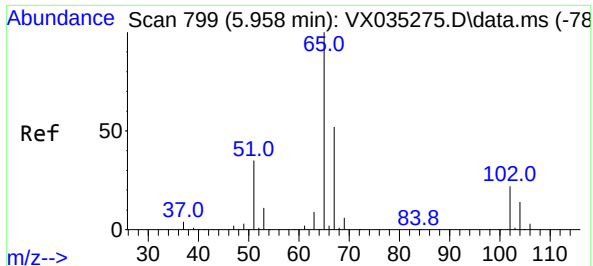
Ion Ratio Lower Upper

56 100

69 159.1 23.7 35.5#

84 118.0 68.5 102.7#





#33

1,2-Dichloroethane-d4

Concen: 50.570 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX035538.D

Acq: 05 May 2023 16:02

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ClientSampleId :

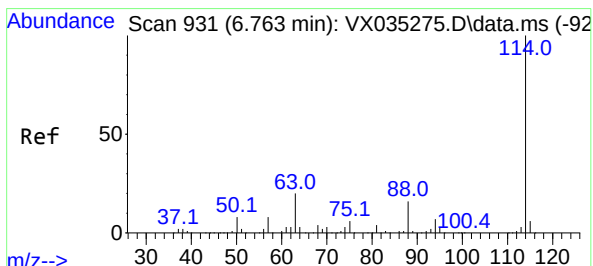
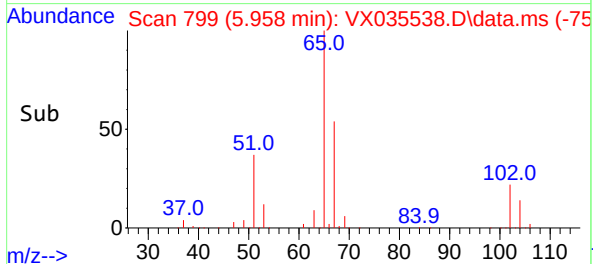
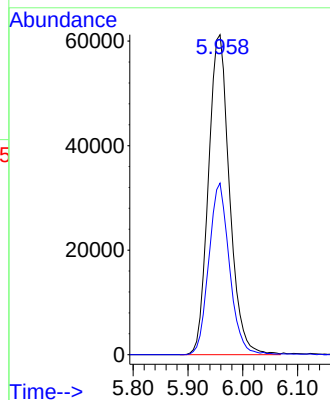
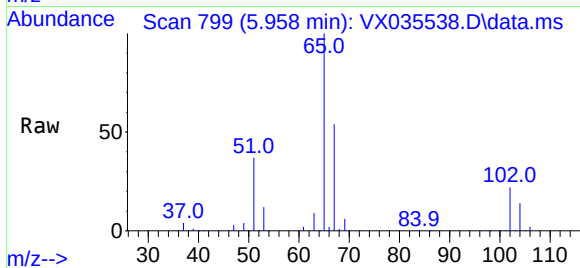
002-3

Tgt Ion: 65 Resp: 163385

Ion Ratio Lower Upper

65 100

67 52.5 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX035538.D

Acq: 05 May 2023 16:02

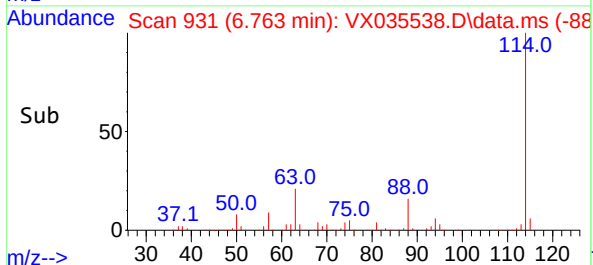
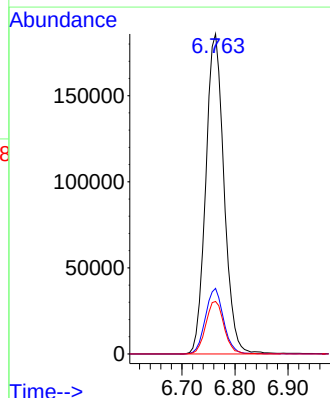
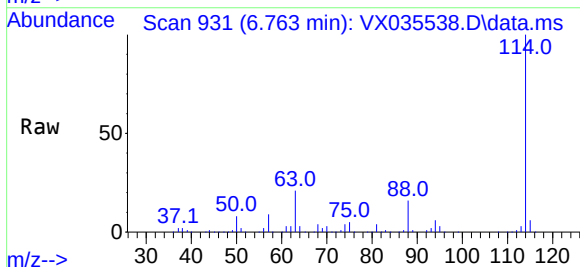
Tgt Ion: 114 Resp: 444413

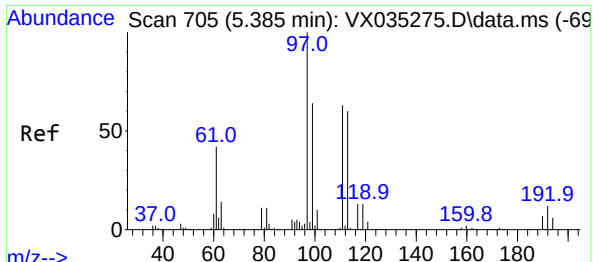
Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.2

88 16.4 0.0 33.2

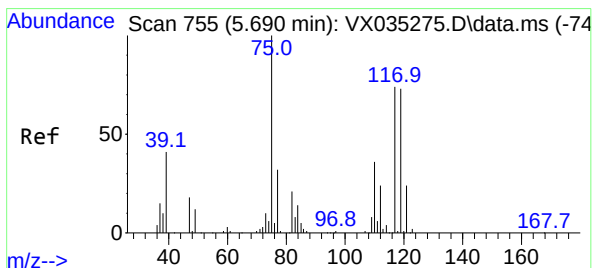
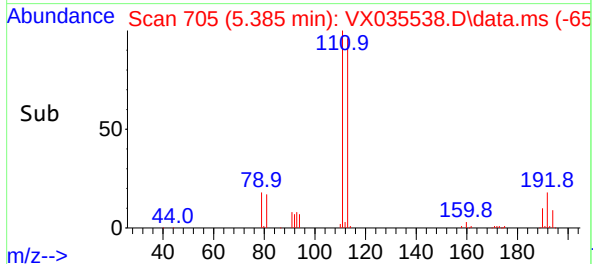
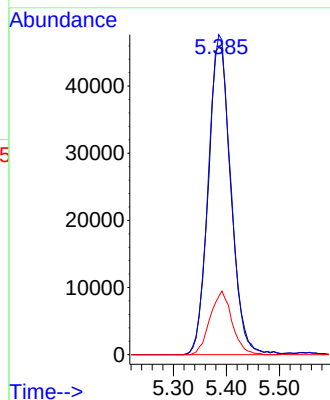
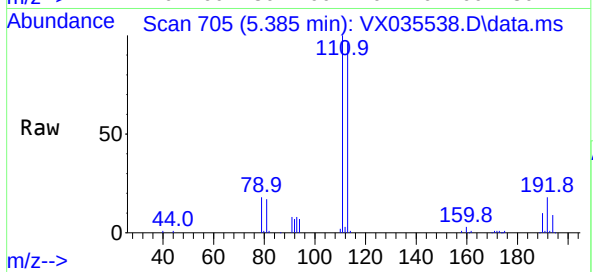




#35
Dibromofluoromethane
Concen: 50.541 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

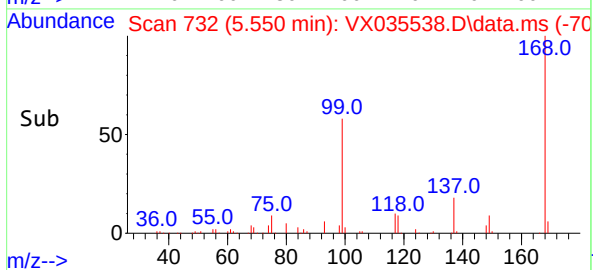
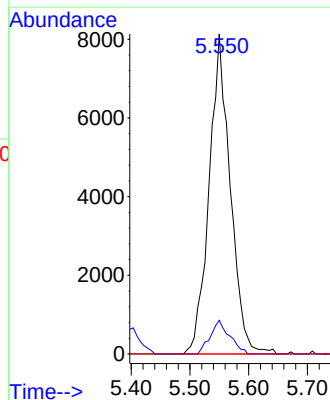
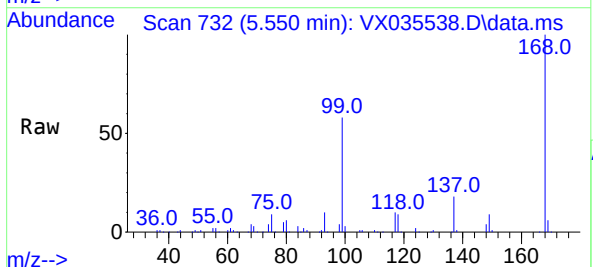
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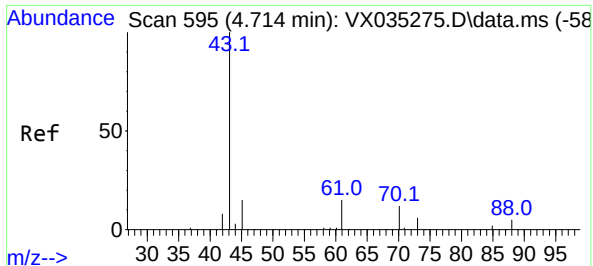
Tgt Ion:113 Resp: 137860
Ion Ratio Lower Upper
113 100
111 101.6 83.7 125.5
192 19.8 15.4 23.2



#36
1,1-Dichloropropene
Concen: 4.783 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.140 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

Tgt Ion: 75 Resp: 20371
Ion Ratio Lower Upper
75 100
110 9.6 17.5 52.5#
77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 0.324 ug/l

RT: 4.581 min Scan# 51

Delta R.T. -0.133 min

Lab File: VX035538.D

Acq: 05 May 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

002-3

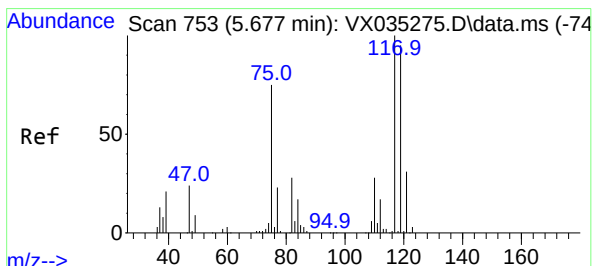
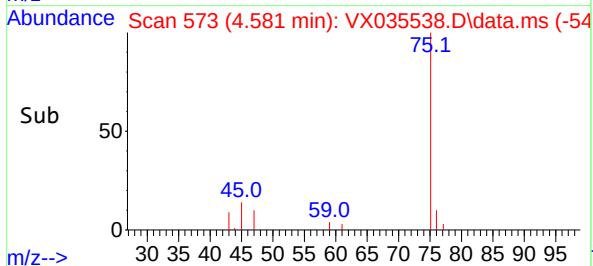
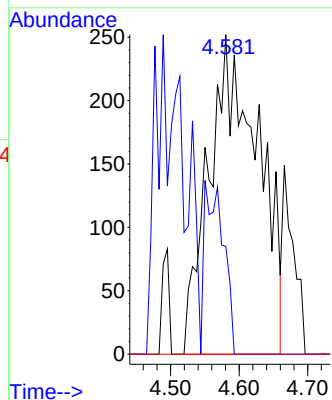
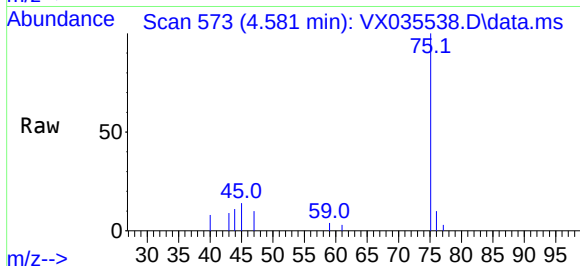
Tgt Ion: 43 Resp: 1261

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

70 0.0 8.2 12.4#



#38

Carbon Tetrachloride

Concen: 6.490 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.127 min

Lab File: VX035538.D

Acq: 05 May 2023 16:02

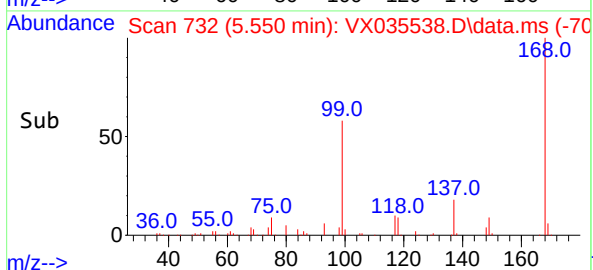
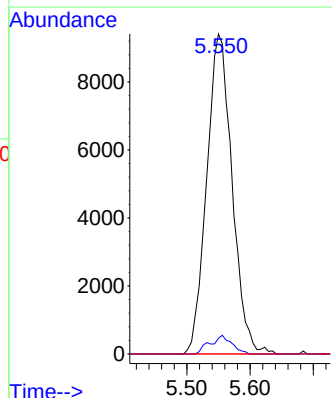
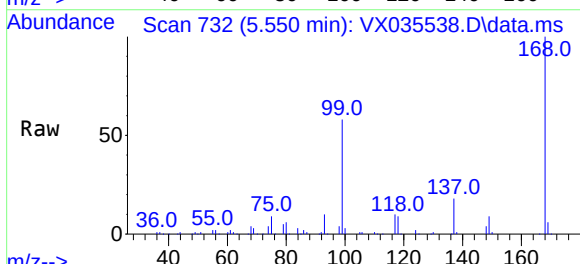
Tgt Ion: 117 Resp: 26242

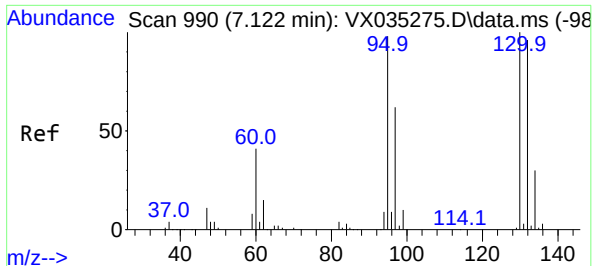
Ion Ratio Lower Upper

117 100

119 4.9 76.6 114.8#

121 0.0 23.8 35.6#

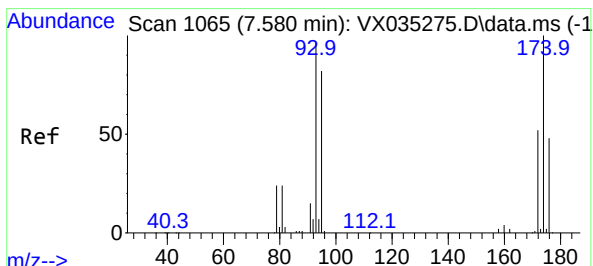
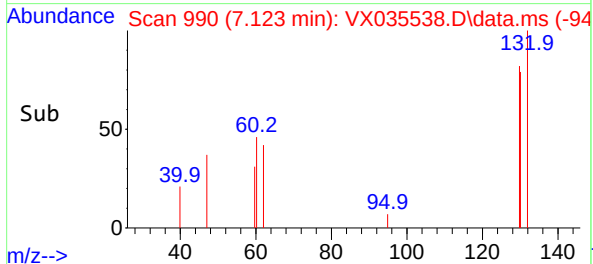
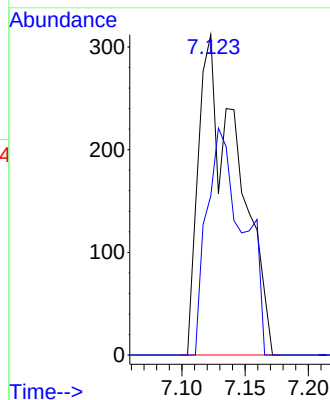
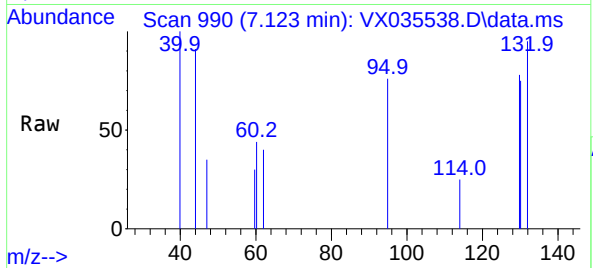




#44
 Trichloroethene
 Concen: 0.201 ug/l
 RT: 7.123 min Scan# 990
 Delta R.T. 0.001 min
 Lab File: VX035538.D
 Acq: 05 May 2023 16:02

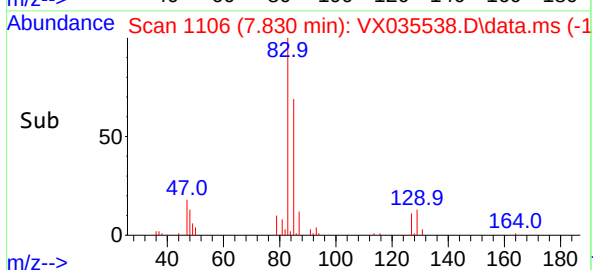
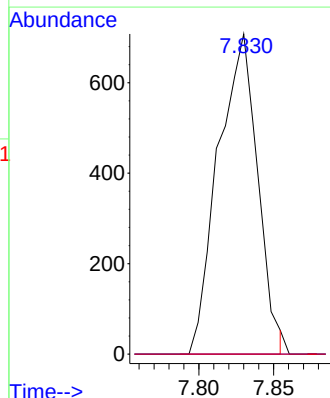
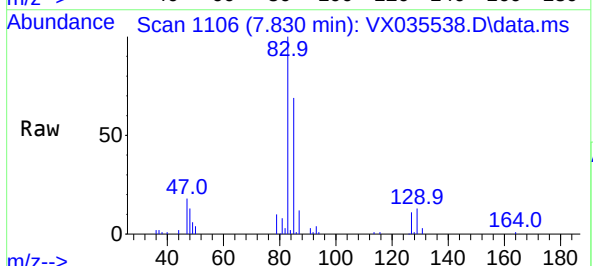
Instrument :
 MSVOA_X
 ClientSampleId :
 002-3

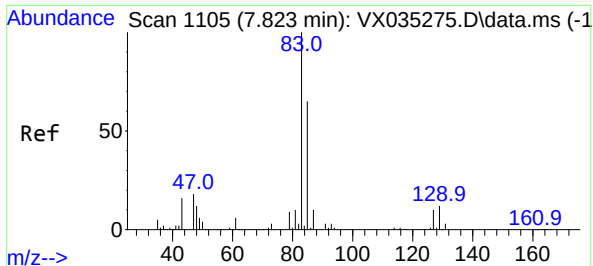
Tgt Ion:130 Resp: 675
 Ion Ratio Lower Upper
 130 100
 95 49.7 0.0 198.4



#46
 Dibromomethane
 Concen: 0.613 ug/l
 RT: 7.830 min Scan# 1106
 Delta R.T. 0.250 min
 Lab File: VX035538.D
 Acq: 05 May 2023 16:02

Tgt Ion: 93 Resp: 1296
 Ion Ratio Lower Upper
 93 100
 95 0.0 66.9 100.3#
 174 0.0 75.4 113.0#

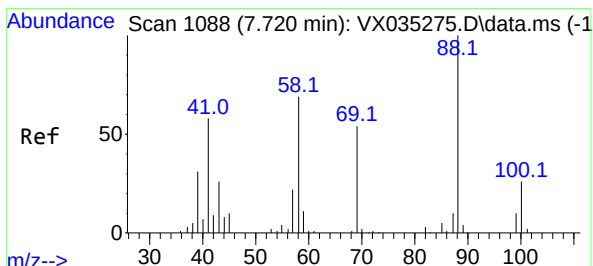
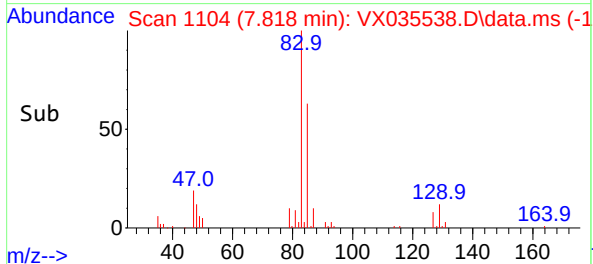
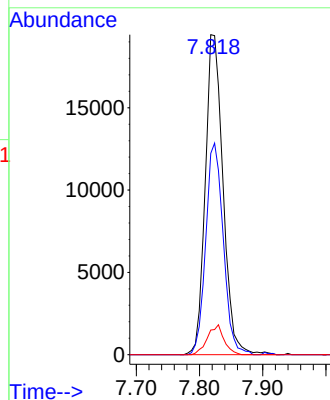
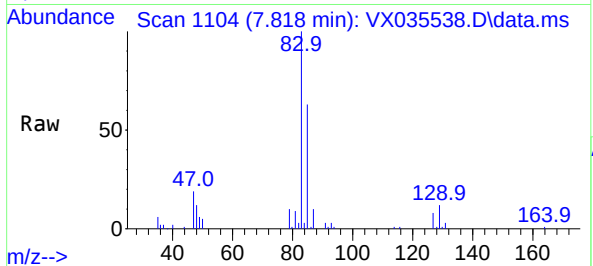




#47
Bromodichloromethane
Concen: 9.763 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.005 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

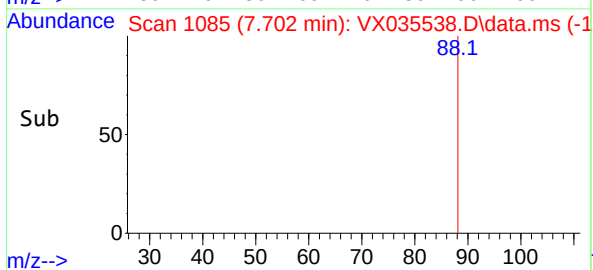
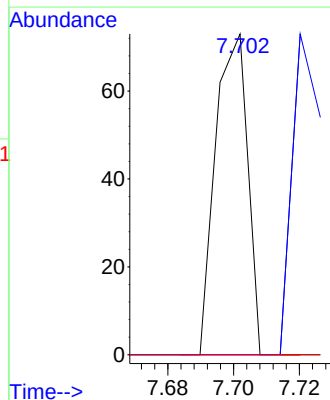
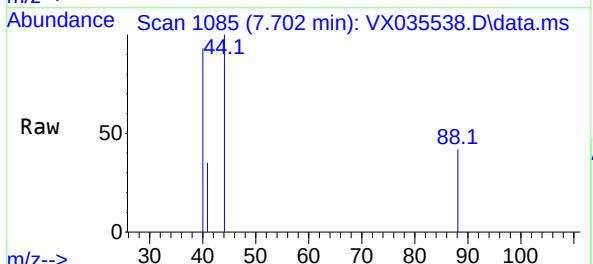
Instrument :
MSVOA_X
ClientSampleId :
002-3

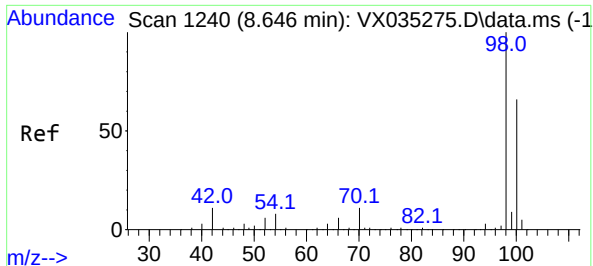
Tgt Ion:	83	Resp:	38048
Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.2	78.4
127	7.7	6.6	9.8



#49
1,4-Dioxane
Concen: 0.627 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. -0.018 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

Tgt Ion:	88	Resp:	49
Ion	Ratio	Lower	Upper
88	100		
43	93.9	27.7	41.5#
58	0.0	56.8	85.2#

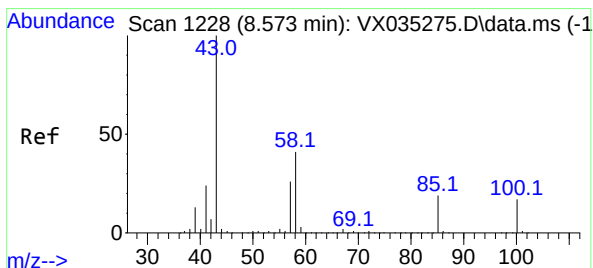
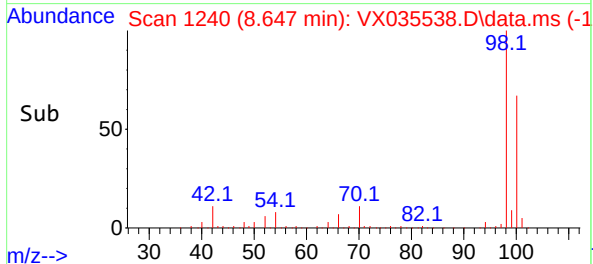
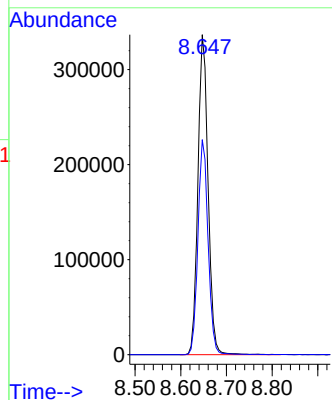
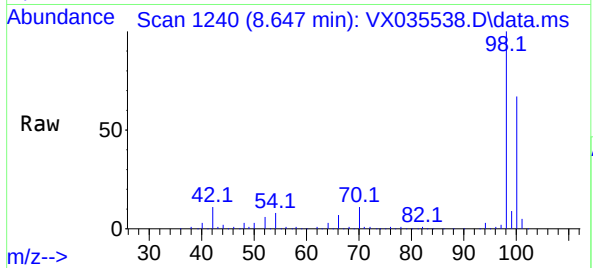




#50
Toluene-d8
Concen: 50.519 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

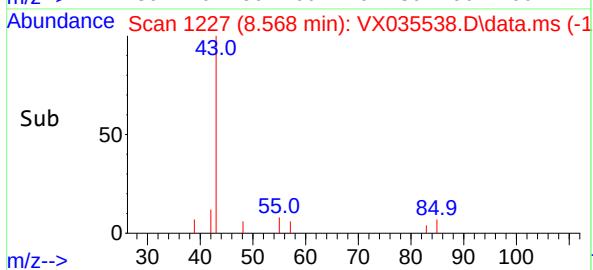
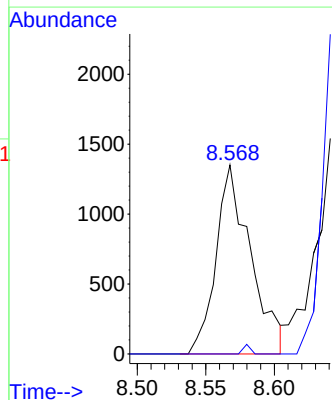
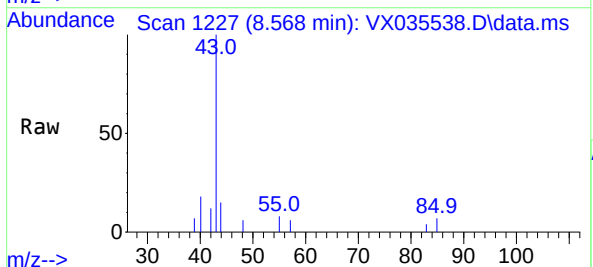
Instrument :
MSVOA_X
ClientSampleId :
002-3

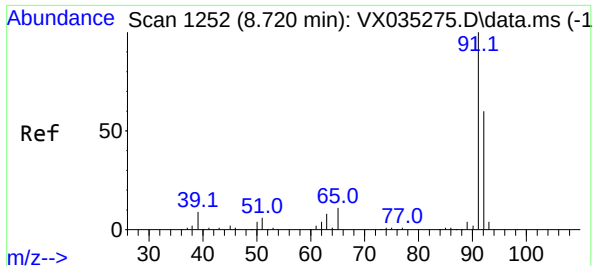
Tgt Ion: 98 Resp: 519823
Ion Ratio Lower Upper
98 100
100 67.2 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.590 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. -0.005 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

Tgt Ion: 43 Resp: 2370
Ion Ratio Lower Upper
43 100
58 0.0 30.6 46.0#

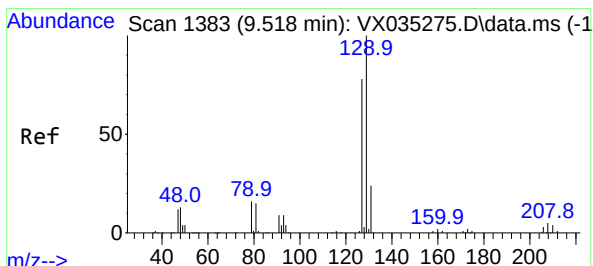
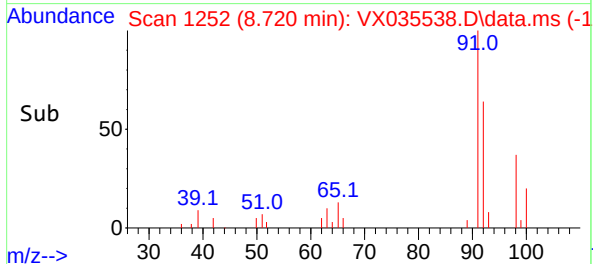
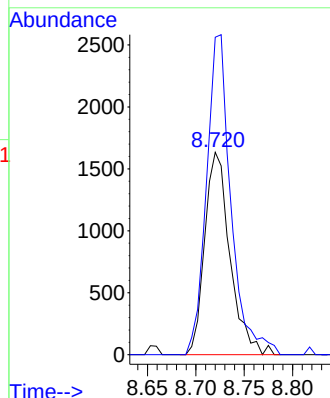
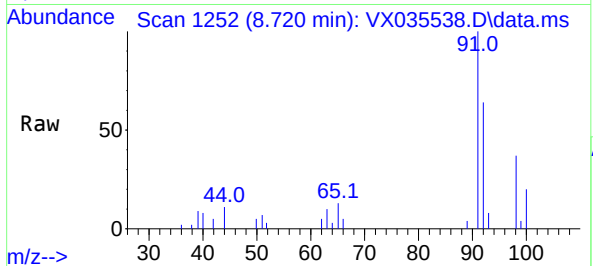




#52
Toluene
Concen: 0.384 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

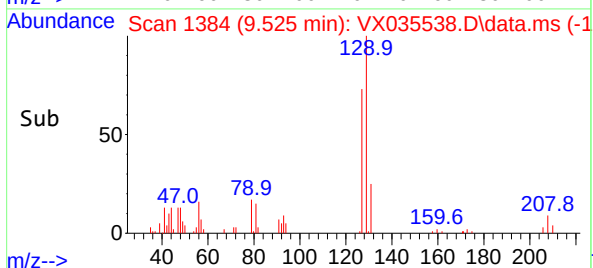
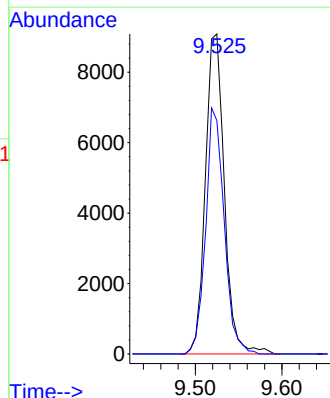
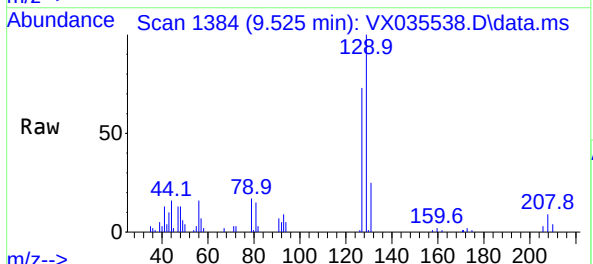
Instrument :
MSVOA_X
ClientSampleId :
002-3

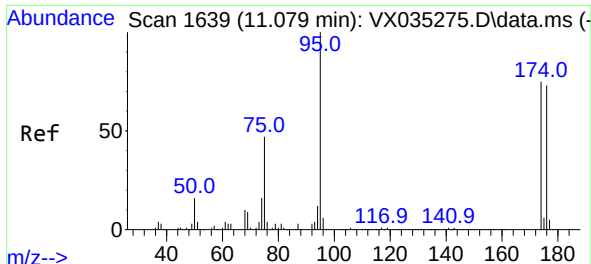
Tgt Ion: 92 Resp: 2971
Ion Ratio Lower Upper
92 100
91 153.4 136.8 205.2



#60
Dibromochloromethane
Concen: 4.674 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.007 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

Tgt Ion: 129 Resp: 13827
Ion Ratio Lower Upper
129 100
127 75.1 39.0 117.0

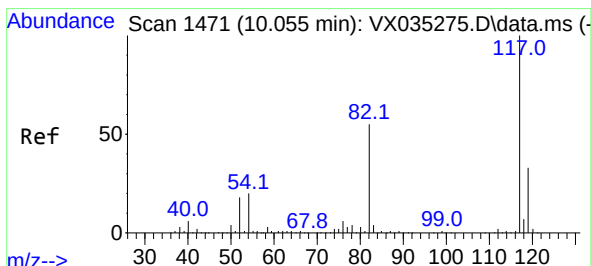
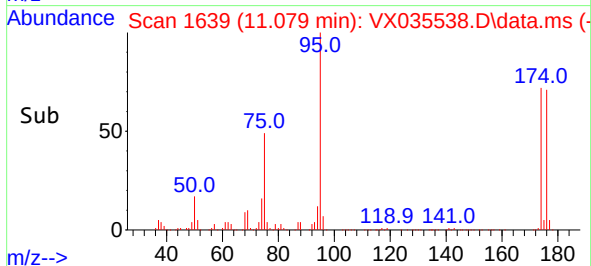
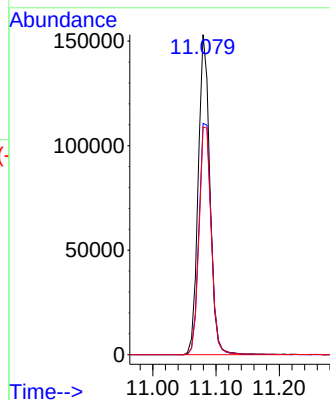
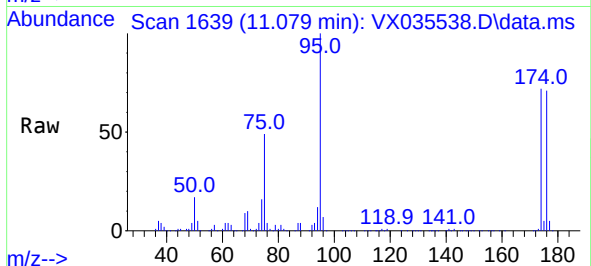




#62
4-Bromofluorobenzene
Concen: 50.740 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

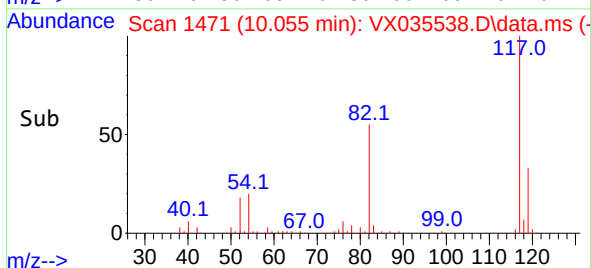
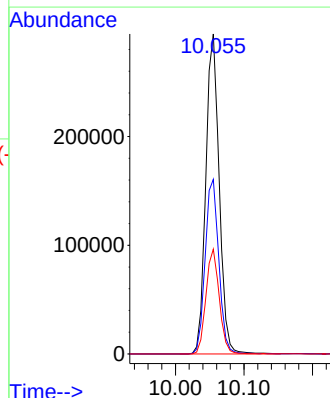
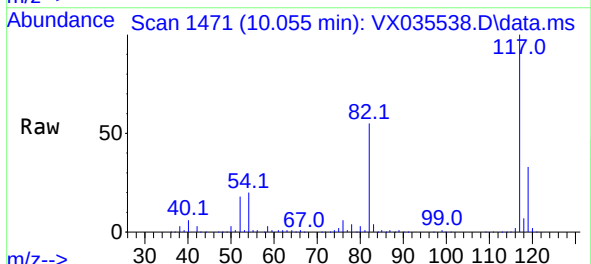
Instrument :
MSVOA_X
ClientSampleId :
002-3

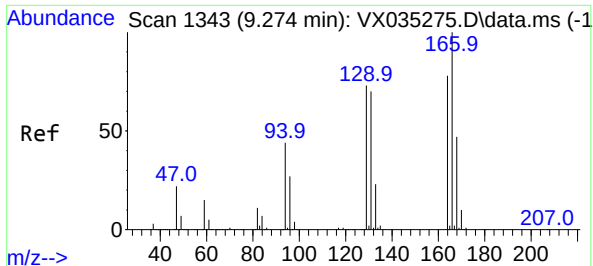
Tgt Ion: 95 Resp: 196403
Ion Ratio Lower Upper
95 100
174 76.8 0.0 147.4
176 74.5 0.0 140.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

Tgt Ion: 117 Resp: 400824
Ion Ratio Lower Upper
117 100
82 54.6 45.0 67.4
119 32.8 26.0 39.0

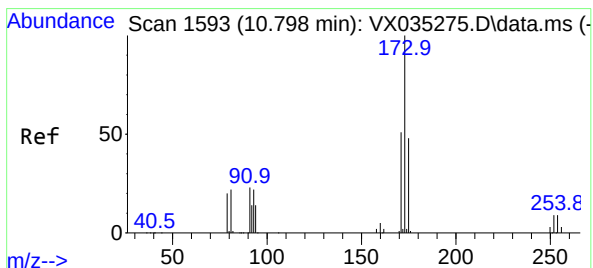
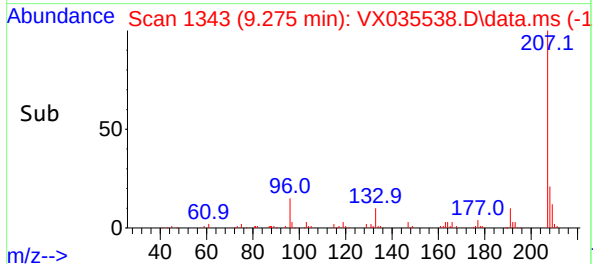
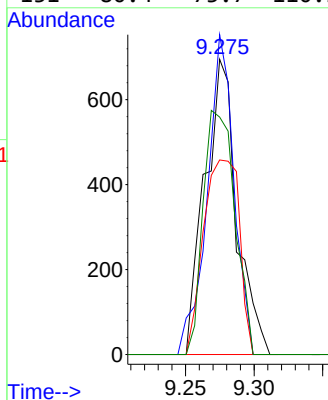
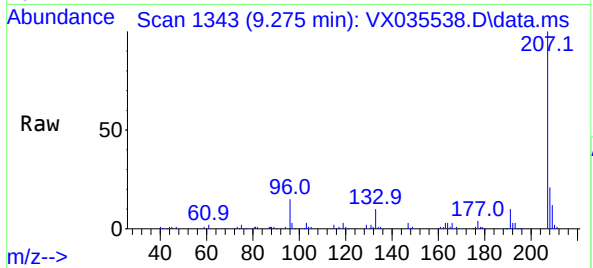




#64
Tetrachloroethene
Concen: 0.364 ug/l
RT: 9.275 min Scan# 1117
Delta R.T. 0.001 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

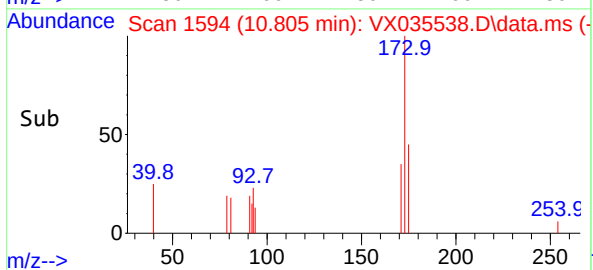
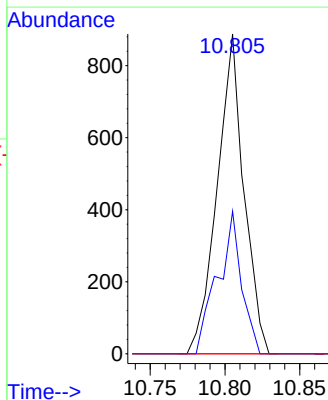
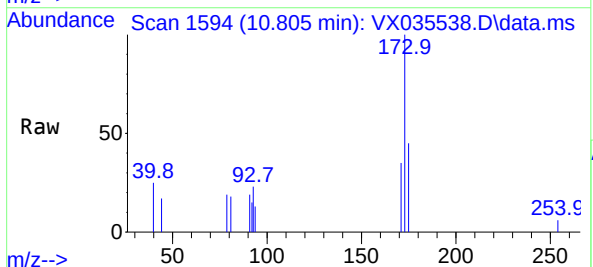
Instrument :
MSVOA_X
ClientSampleId :
002-3

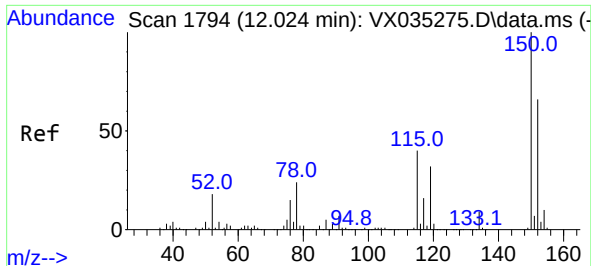
Tgt Ion:164 Resp: 1117
Ion Ratio Lower Upper
164 100
166 108.3 102.7 154.1
129 65.9 75.6 113.4#
131 80.4 73.7 110.5



#71
Bromoform
Concen: 0.525 ug/l
RT: 10.805 min Scan# 1594
Delta R.T. 0.007 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

Tgt Ion:173 Resp: 1102
Ion Ratio Lower Upper
173 100
175 40.0 24.1 72.4
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX035538.D

Acq: 05 May 2023 16:02

Instrument :

MSVOA_X

ClientSampleId :

002-3

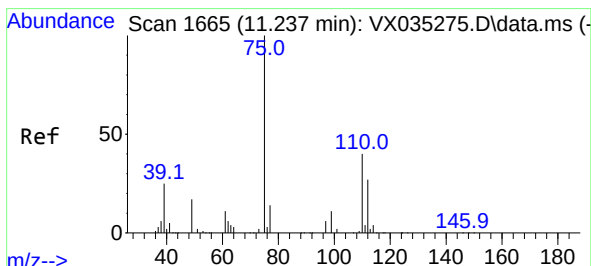
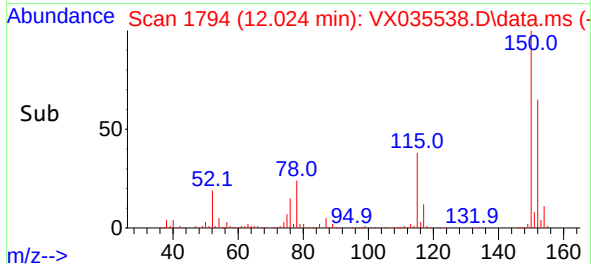
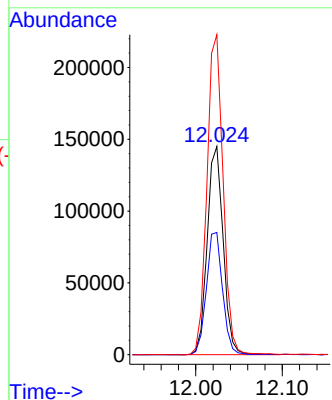
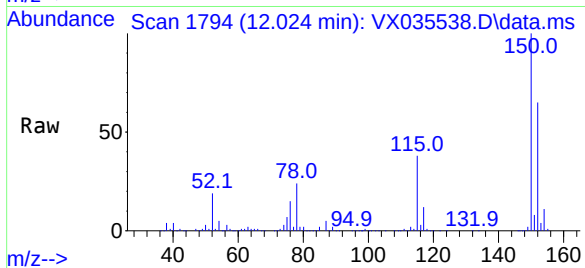
Tgt Ion:152 Resp: 185469

Ion Ratio Lower Upper

152 100

115 59.7 45.0 135.0

150 155.1 0.0 352.4



#76

1,2,3-Trichloropropane

Concen: 26.113 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX035538.D

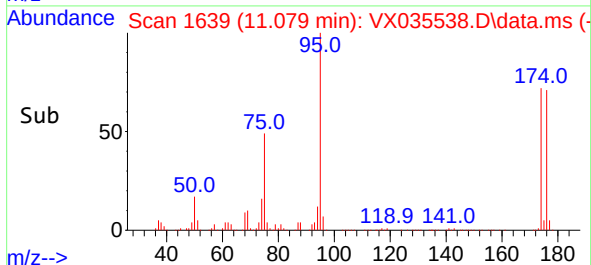
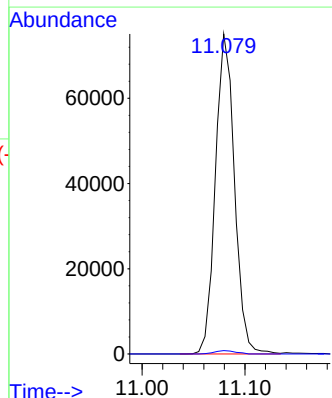
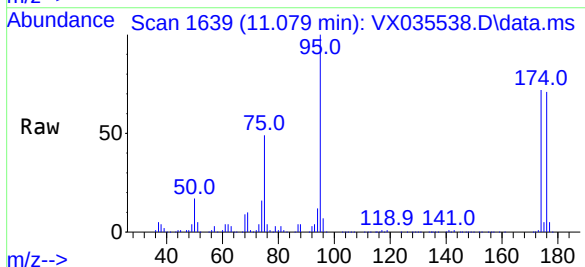
Acq: 05 May 2023 16:02

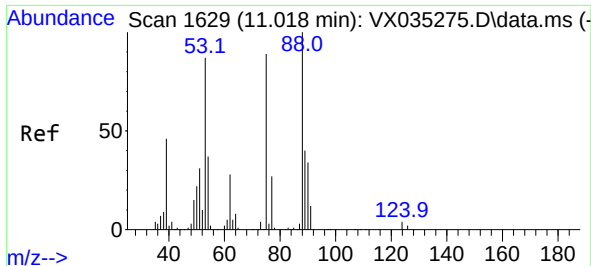
Tgt Ion: 75 Resp: 96610

Ion Ratio Lower Upper

75 100

77 1.2 21.6 64.8#

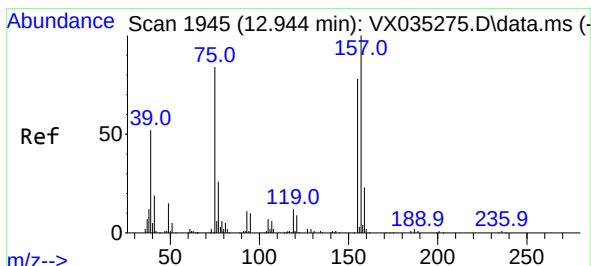
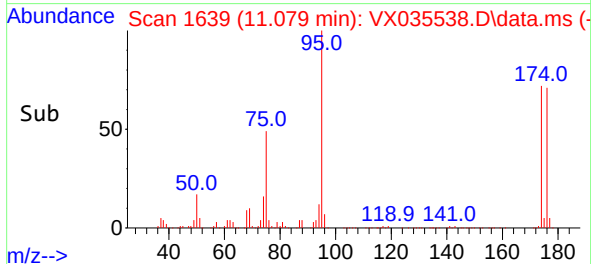
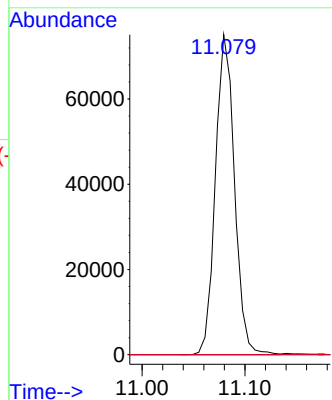
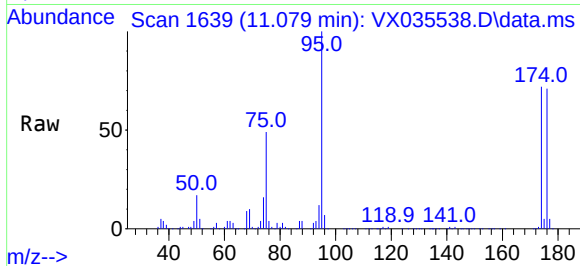




#81
trans-1,4-Dichloro-2-butene
Concen: 84.575 ug/l
RT: 11.079 min Scan# 110
Delta R.T. 0.061 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

Instrument :
MSVOA_X
ClientSampleId :
002-3

Tgt Ion: 75 Resp: 96610
Ion Ratio Lower Upper
75 100
53 0.0 82.6 124.0#
89 0.0 36.9 55.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.505 ug/l
RT: 12.756 min Scan# 1914
Delta R.T. -0.188 min
Lab File: VX035538.D
Acq: 05 May 2023 16:02

Tgt Ion: 75 Resp: 426
Ion Ratio Lower Upper
75 100
155 5.2 38.4 115.1#
157 0.0 49.9 149.7#

