

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091323\
 Data File : VX037713.D
 Acq On : 14 Sep 2023 06:11
 Operator : JC/MD
 Sample : 04399-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 14 07:28:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 10:10:04 2023
 Response via : Initial Calibration

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

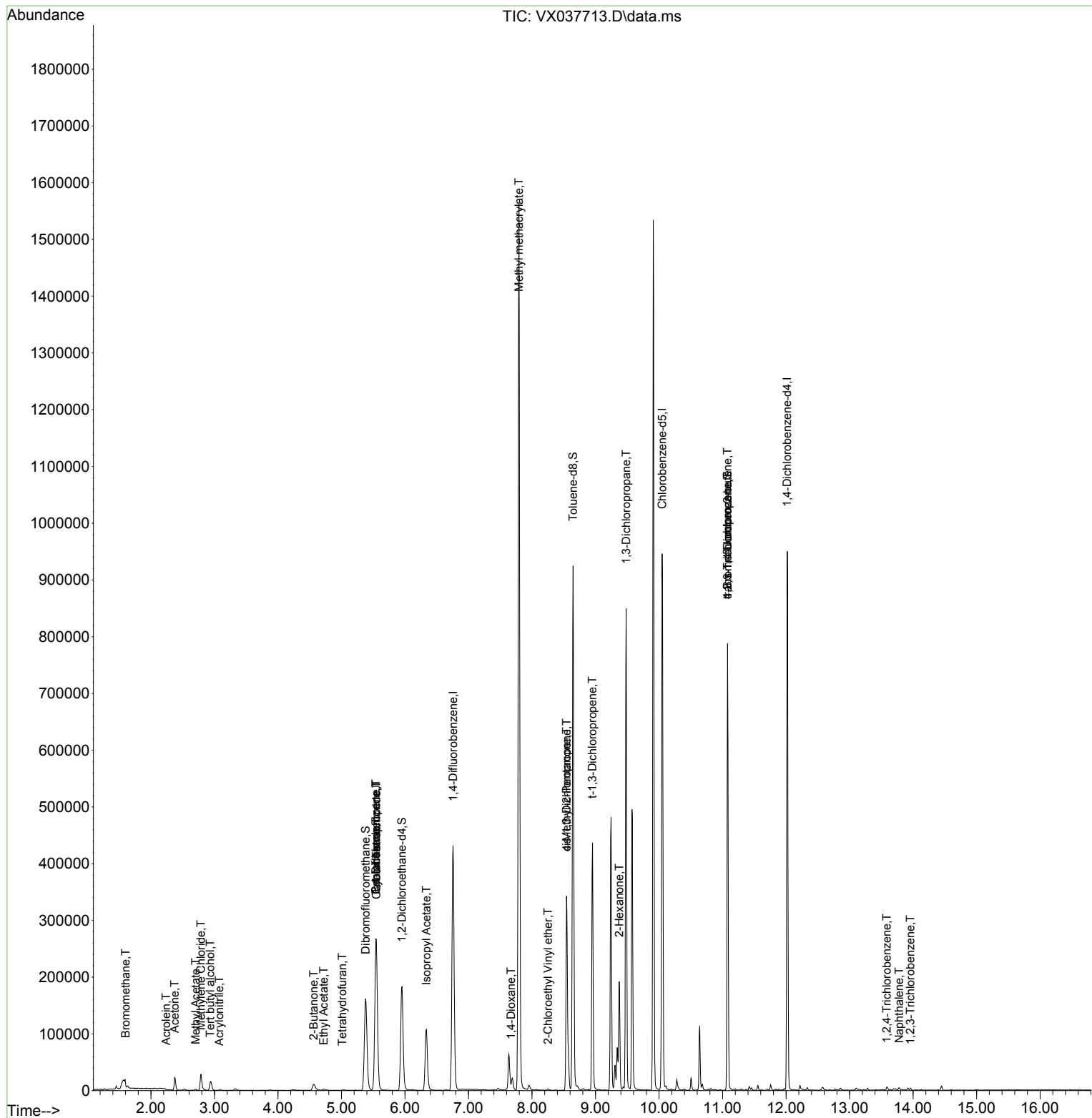
Internal Standards						
1) Pentafluorobenzene	5.544	168	252822	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	443489	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	430071	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	190032	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	177392	43.367	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	86.740%		
35) Dibromofluoromethane	5.379	113	142438	45.312	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.620%		
50) Toluene-d8	8.647	98	551009	46.477	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	92.960%		
62) 4-Bromofluorobenzene	11.079	95	196365	45.910	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.820%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	641	0.216	ug/l #	49
11) Tert butyl alcohol	2.934	59	10184	1.227	ug/l #	82
13) Acrolein	2.239	56	316	0.473	ug/l #	51
15) Acrylonitrile	3.075	53	440	0.235	ug/l #	63
16) Acetone	2.373	43	24395	14.752	ug/l #	84
18) Methyl Acetate	2.703	43	2594	0.371	ug/l	96
20) Methylene Chloride	2.788	84	14686	3.406	ug/l	88
25) 2-Butanone	4.562	43	14076	5.220	ug/l	94
29) Tetrahydrofuran	5.013	42	510	0.297	ug/l #	80
31) Cyclohexane	5.544	56	5881	1.249	ug/l #	9
36) 1,1-Dichloropropene	5.544	75	20620	4.822	ug/l #	51
37) Ethyl Acetate	4.721	43	3713	0.759	ug/l #	77
38) Carbon Tetrachloride	5.550	117	26879	6.153	ug/l #	15
43) Isopropyl Acetate	6.336	43	147513	18.897	ug/l	97
48) Methyl methacrylate	7.793	41	133755	35.446	ug/l #	48
49) 1,4-Dioxane	7.671	88	158	1.690	ug/l #	12
51) 4-Methyl-2-Pentanone	8.543	43	140935	27.495	ug/l #	37
53) t-1,3-Dichloropropene	8.951	75	1307	0.287	ug/l #	43
54) cis-1,3-Dichloropropene	8.543	75	55721	11.147	ug/l #	57
57) 1,3-Dichloropropane	9.482	76	7205	1.224	ug/l #	42
58) 2-Chloroethyl Vinyl ether	8.250	63	1185	0.455	ug/l	93
59) 2-Hexanone	9.372	43	137579	34.772	ug/l #	26
76) 1,2,3-Trichloropropane	11.079	75	102184	24.459	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	102184	74.348	ug/l #	5
93) 1,2,4-Trichlorobenzene	13.585	180	971	0.252	ug/l	93
95) Naphthalene	13.780	128	3177	0.227	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	951	0.240	ug/l	94

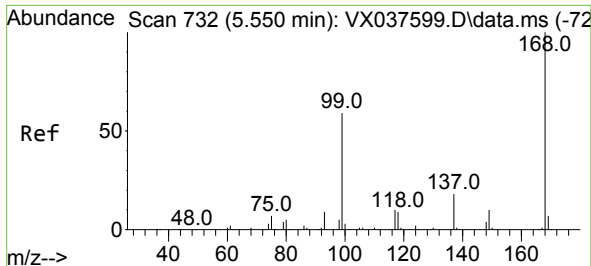
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 14 07:28:14 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091123W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 12 10:10:04 2023
Response via : Initial Calibration

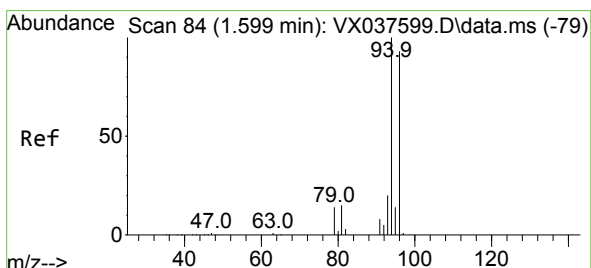
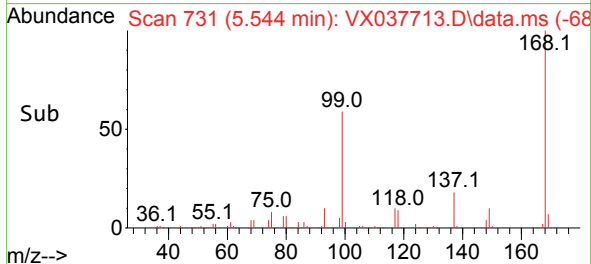
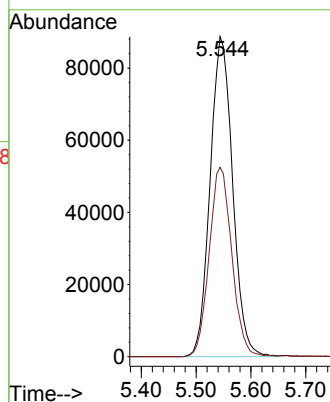
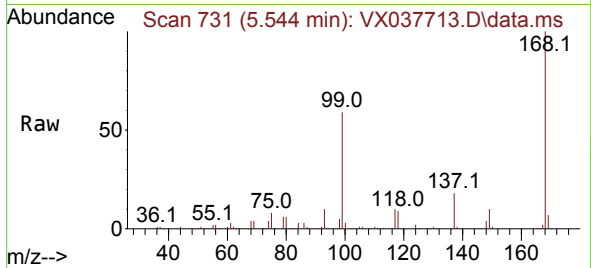




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

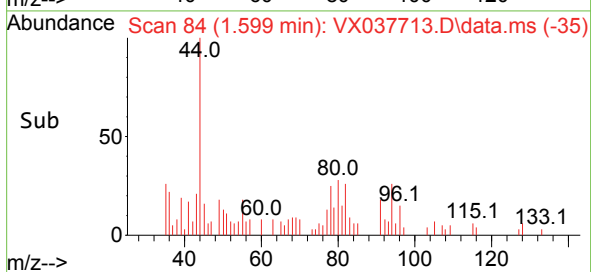
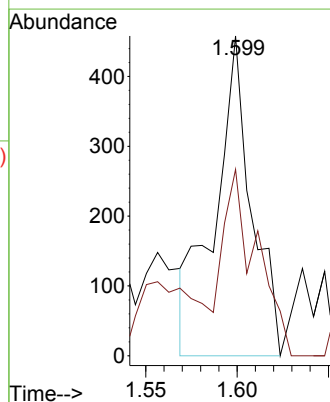
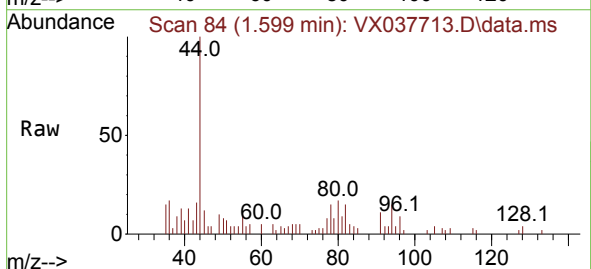
Instrument :
MSVOA_X
ClientSampleId :

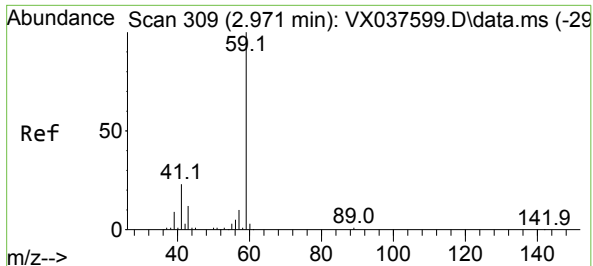
Tgt Ion:168 Resp: 252822
Ion Ratio Lower Upper
168 100
99 59.2 56.6 85.0



#5
Bromomethane
Concen: 0.216 ug/l
RT: 1.599 min Scan# 84
Delta R.T. -0.000 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

Tgt Ion: 94 Resp: 641
Ion Ratio Lower Upper
94 100
96 44.3 74.6 111.8#





#11

Tert butyl alcohol

Concen: 1.227 ug/l

RT: 2.934 min Scan# 309

Delta R.T. -0.037 min

Lab File: VX037713.D

Acq: 14 Sep 2023 06:11

Instrument :

MSVOA_X

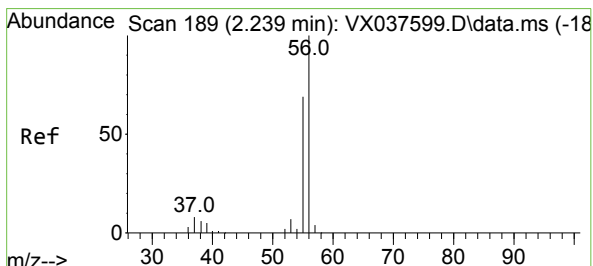
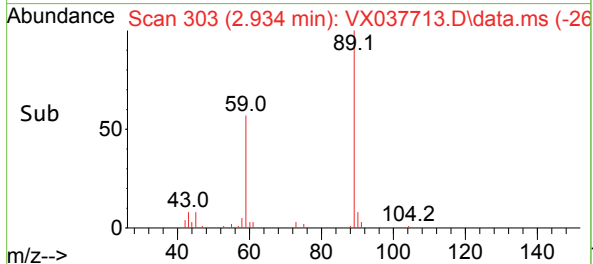
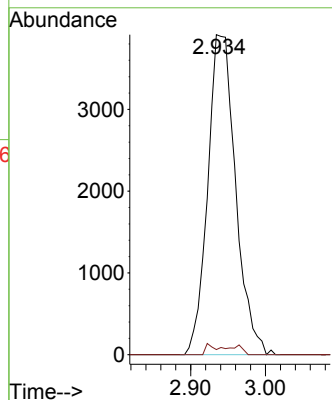
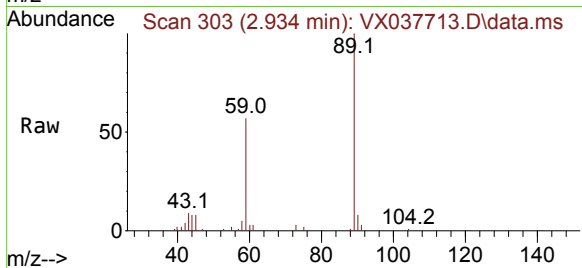
ClientSampleId :

Tgt Ion: 59 Resp: 10184

Ion Ratio Lower Upper

59 100

57 1.1 6.0 9.0#



#13

Acrolein

Concen: 0.473 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX037713.D

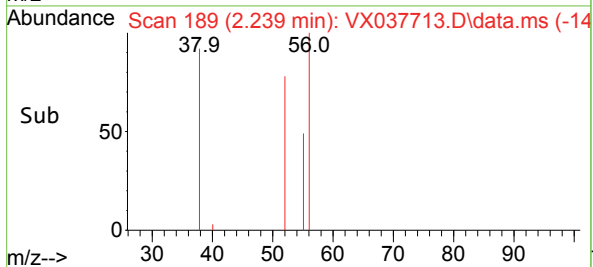
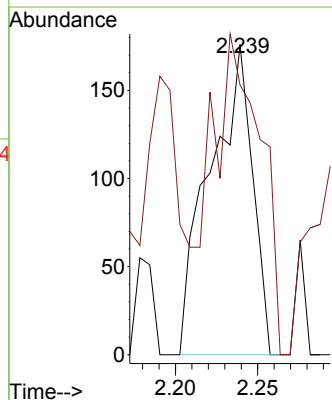
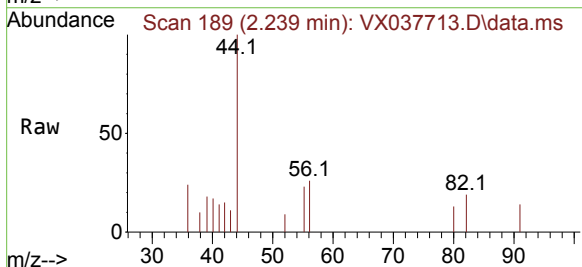
Acq: 14 Sep 2023 06:11

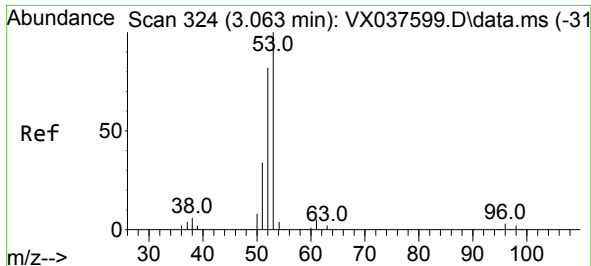
Tgt Ion: 56 Resp: 316

Ion Ratio Lower Upper

56 100

55 112.0 57.1 85.7#





#15

Acrylonitrile

Concen: 0.235 ug/l

RT: 3.075 min Scan# 31

Delta R.T. 0.012 min

Lab File: VX037713.D

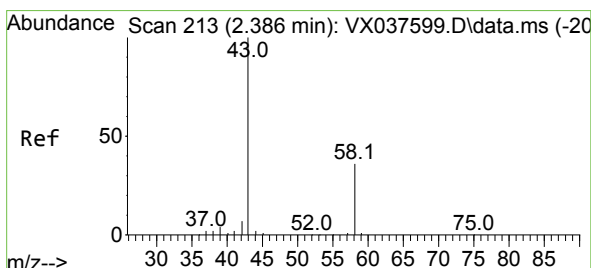
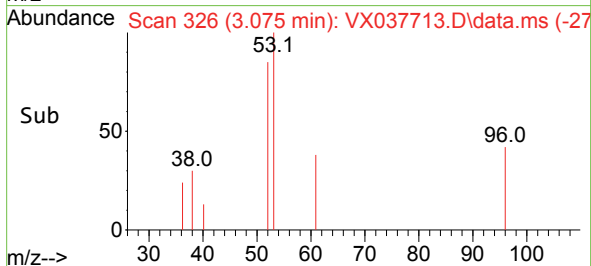
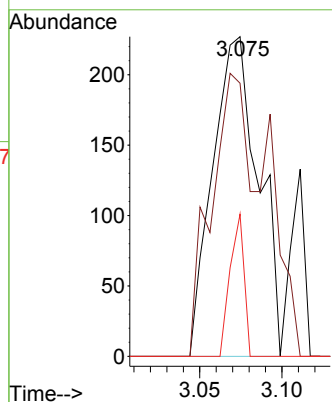
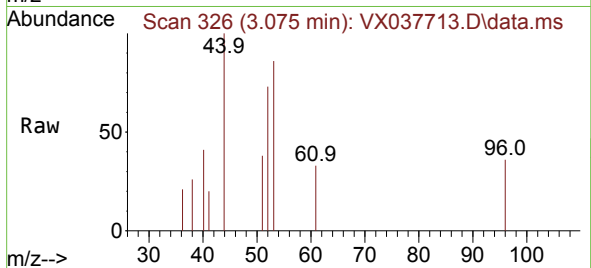
Acq: 14 Sep 2023 06:11

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 53	Resp: 440
Ion Ratio	Lower Upper
53	100
52	105.7 66.0 99.0#
51	0.0 29.8 44.6#



#16

Acetone

Concen: 14.752 ug/l

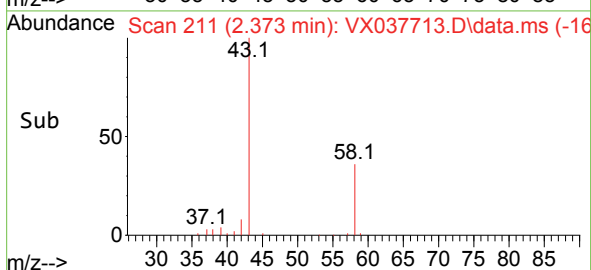
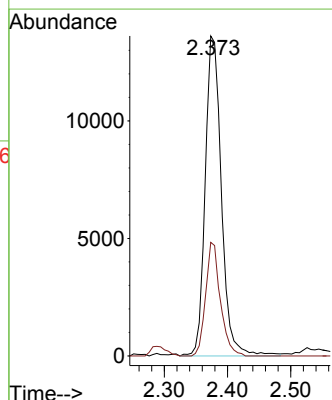
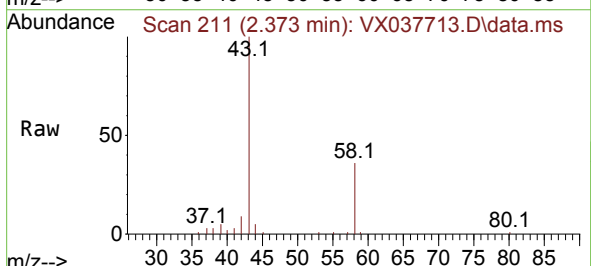
RT: 2.373 min Scan# 211

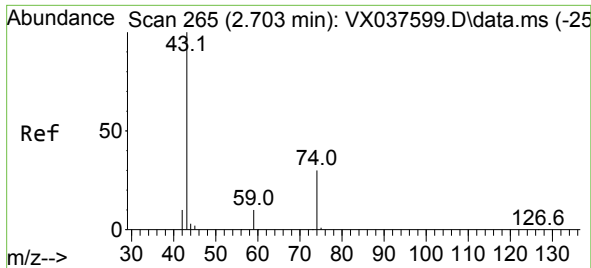
Delta R.T. -0.012 min

Lab File: VX037713.D

Acq: 14 Sep 2023 06:11

Tgt Ion: 43	Resp: 24395
Ion Ratio	Lower Upper
43	100
58	35.5 21.9 32.9#





#18

Methyl Acetate

Concen: 0.371 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX037713.D

Acq: 14 Sep 2023 06:11

Instrument :

MSVOA_X

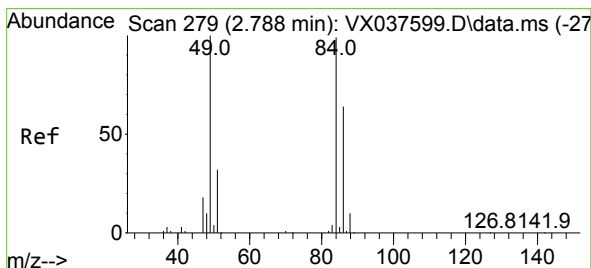
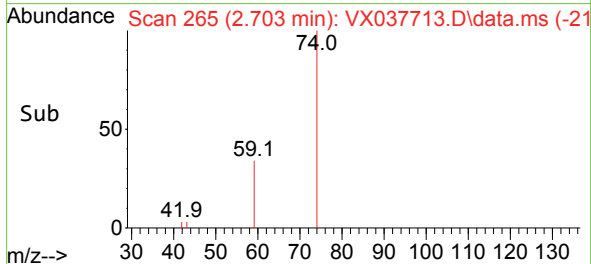
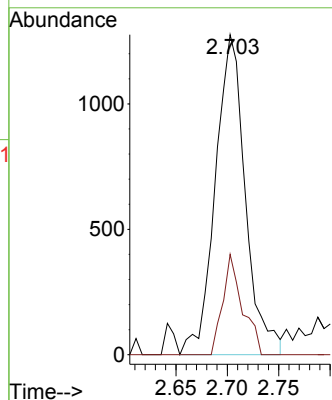
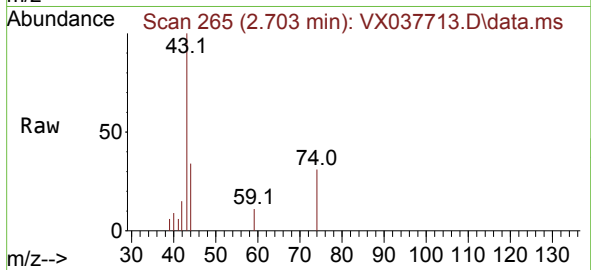
ClientSampleId :

Tgt Ion: 43 Resp: 2594

Ion Ratio Lower Upper

43 100

74 20.5 17.8 26.8



#20

Methylene Chloride

Concen: 3.406 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX037713.D

Acq: 14 Sep 2023 06:11

Tgt Ion: 84 Resp: 14686

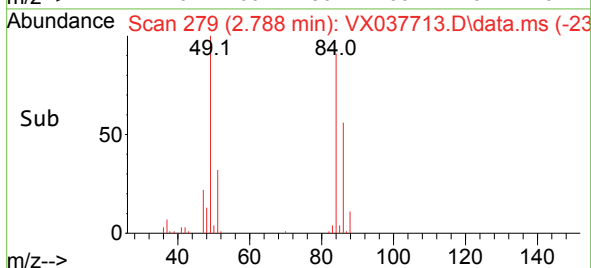
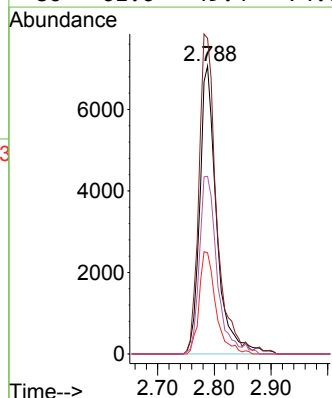
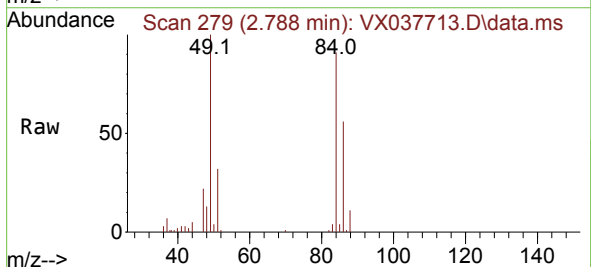
Ion Ratio Lower Upper

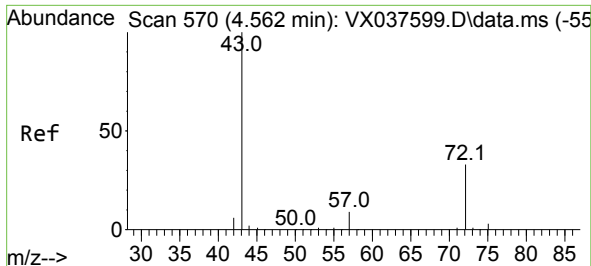
84 100

49 109.6 103.6 155.4

51 35.1 33.8 50.6

86 61.6 49.4 74.0

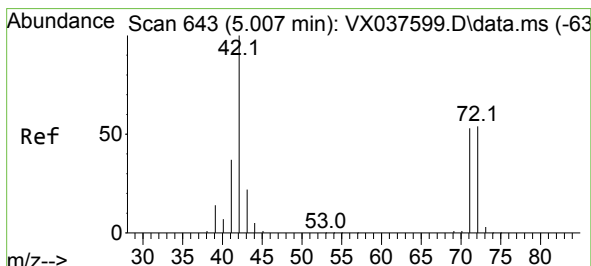
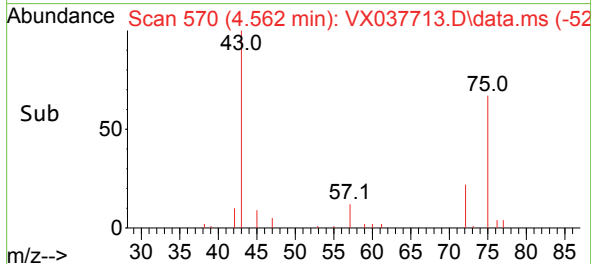
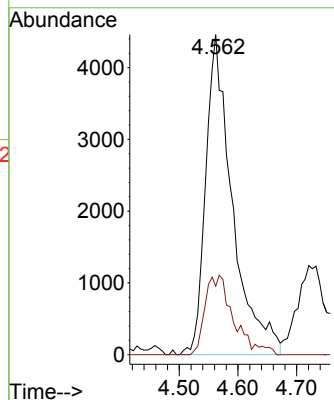
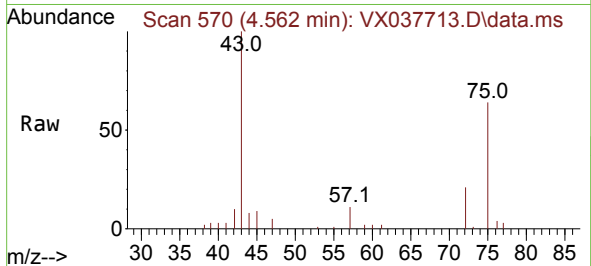




#25
2-Butanone
Concen: 5.220 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

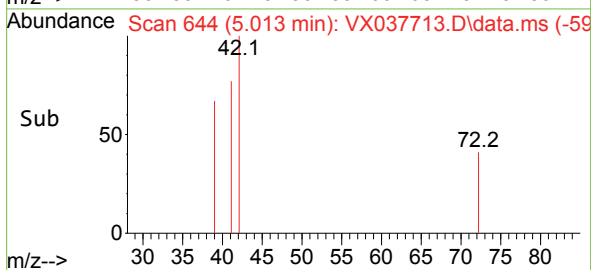
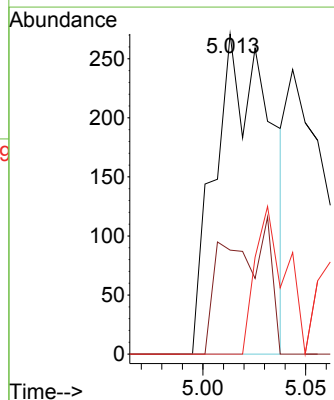
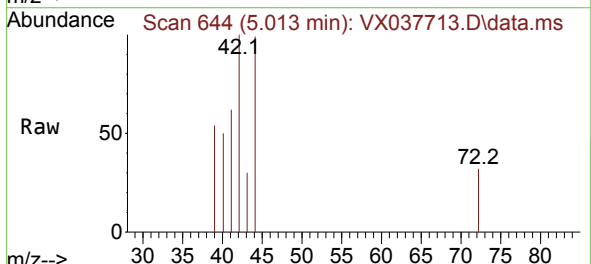
Instrument :
MSVOA_X
ClientSampleId :

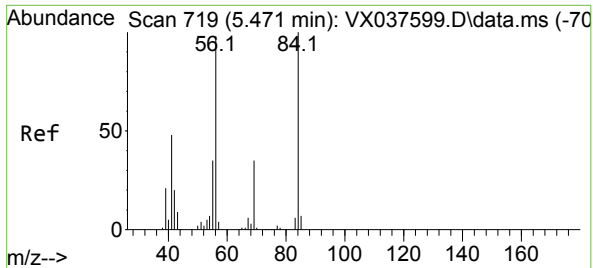
Tgt Ion: 43 Resp: 14076
Ion Ratio Lower Upper
43 100
72 21.4 19.4 29.2



#29
Tetrahydrofuran
Concen: 0.297 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

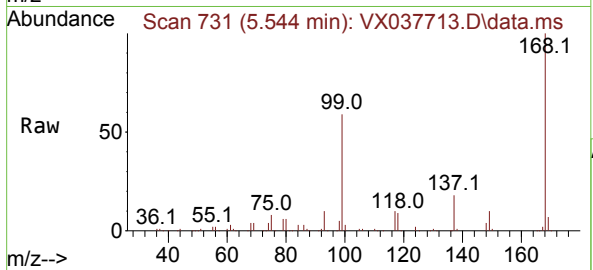
Tgt Ion: 42 Resp: 510
Ion Ratio Lower Upper
42 100
72 32.4 34.2 51.4#
71 25.1 32.2 48.2#



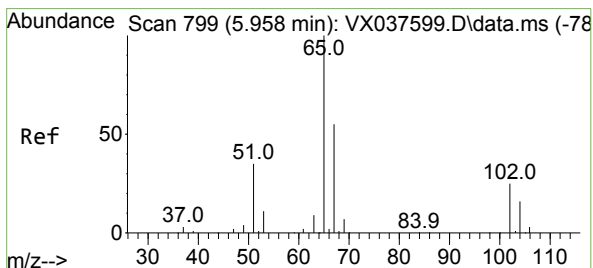
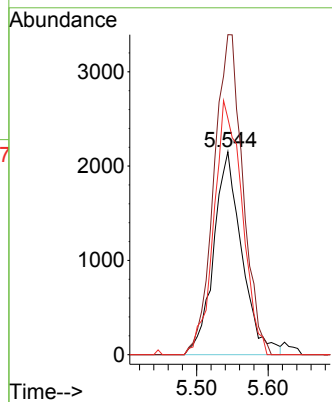
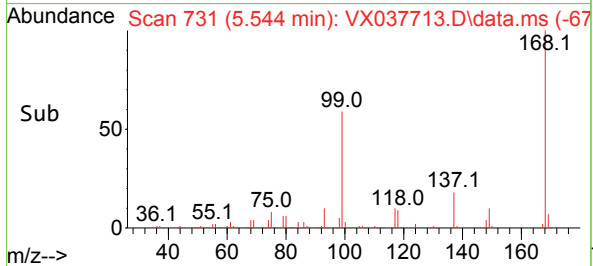


#31
Cyclohexane
Concen: 1.249 ug/l
RT: 5.544 min Scan# 719
Delta R.T. 0.073 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

Instrument :
MSVOA_X
ClientSampleId :

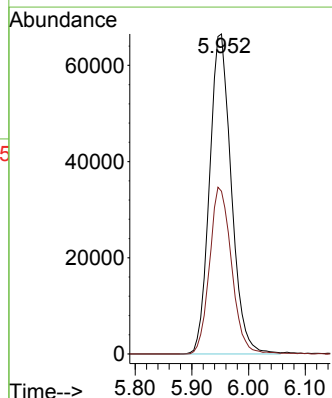
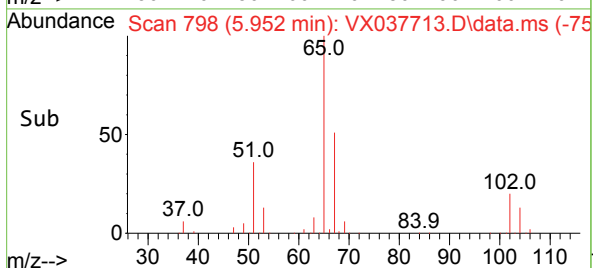
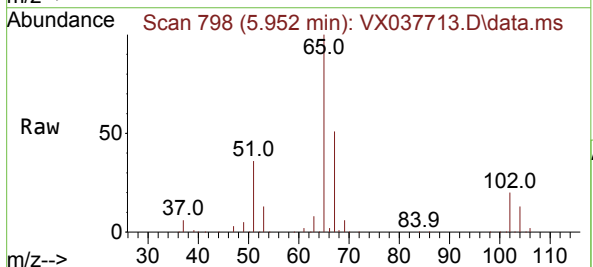


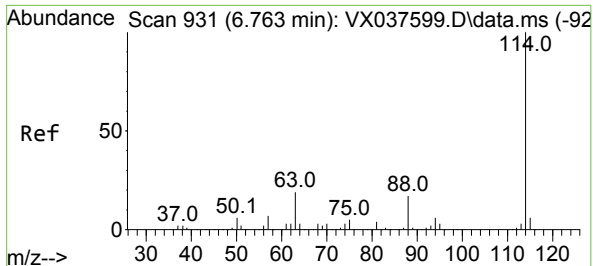
Tgt Ion: 56 Resp: 5881
Ion Ratio Lower Upper
56 100
69 157.8 23.4 35.2#
84 116.5 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 43.367 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

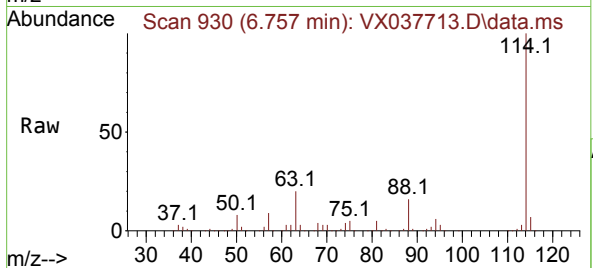
Tgt Ion: 65 Resp: 177392
Ion Ratio Lower Upper
65 100
67 52.7 0.0 100.2



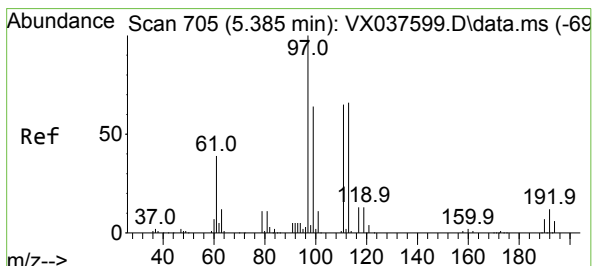
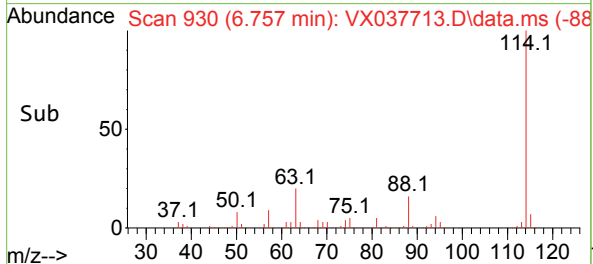
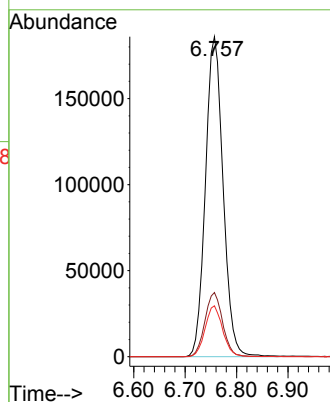


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

Instrument :
MSVOA_X
ClientSampleId :

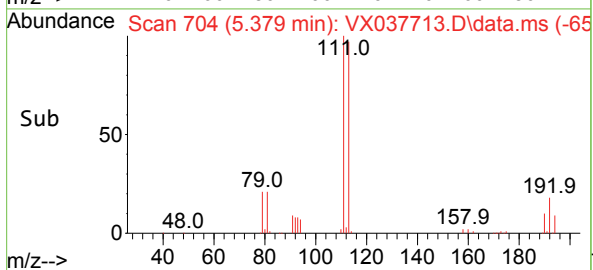
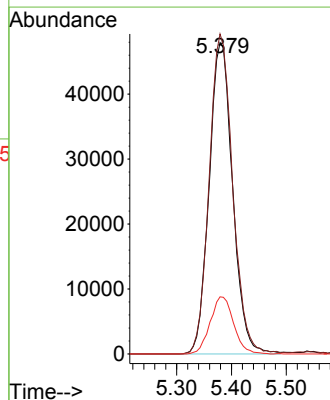
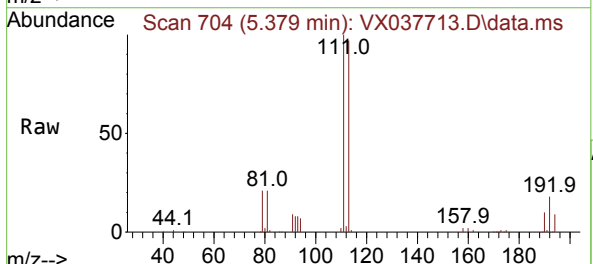


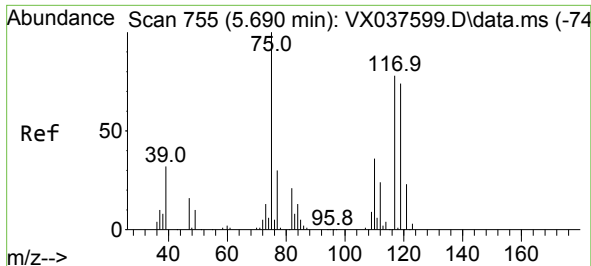
Tgt Ion:114 Resp: 443489
Ion Ratio Lower Upper
114 100
63 20.1 0.0 45.0
88 15.9 0.0 36.6



#35
Dibromofluoromethane
Concen: 45.312 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

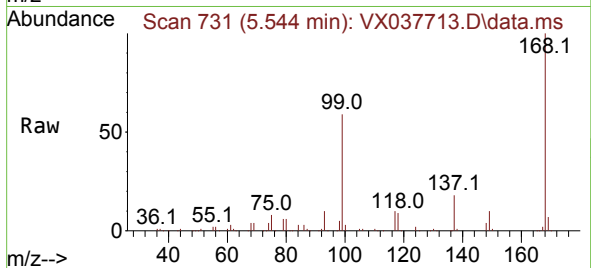
Tgt Ion:113 Resp: 142438
Ion Ratio Lower Upper
113 100
111 103.2 82.9 124.3
192 18.3 13.3 19.9



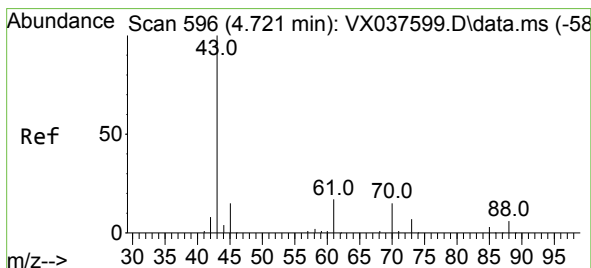
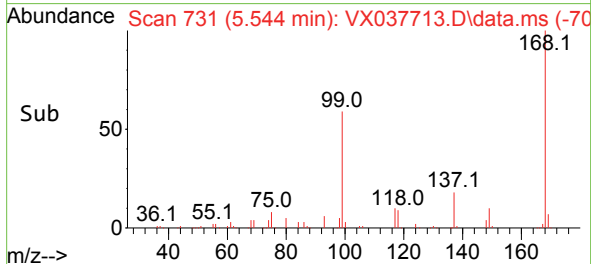
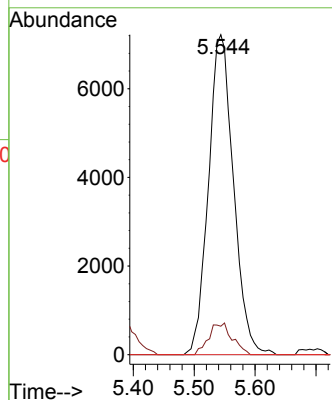


#36
1,1-Dichloropropene
Concen: 4.822 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.147 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

Instrument :
MSVOA_X
ClientSampleId :

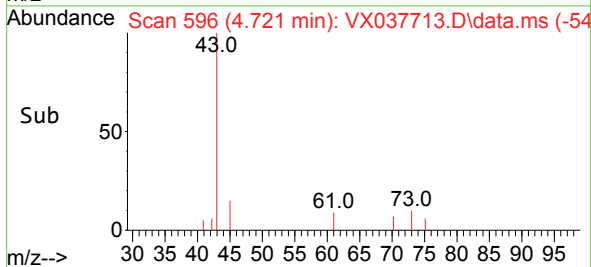
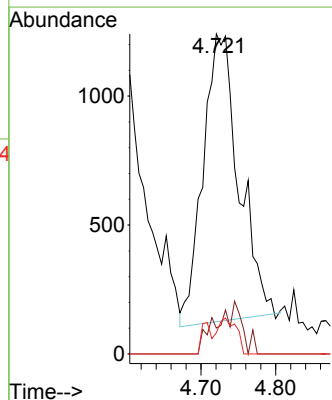
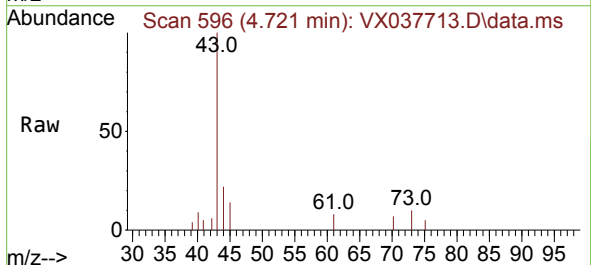


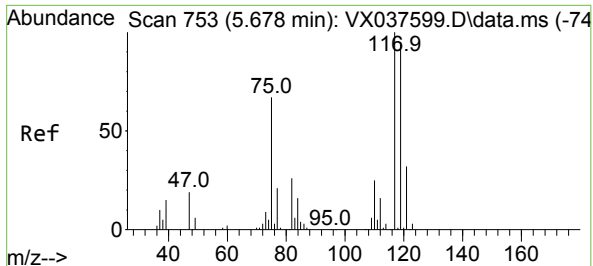
Tgt Ion: 75 Resp: 20620
Ion Ratio Lower Upper
75 100
110 9.2 17.0 50.9#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 0.759 ug/l
RT: 4.721 min Scan# 596
Delta R.T. -0.000 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

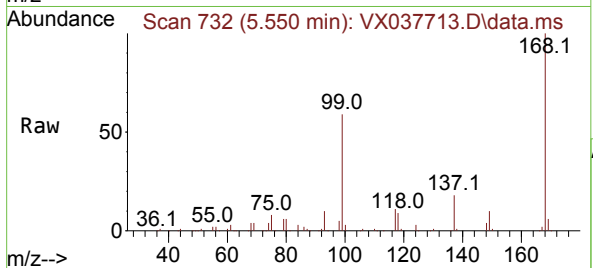
Tgt Ion: 43 Resp: 3713
Ion Ratio Lower Upper
43 100
61 0.0 10.6 16.0#
70 6.5 8.3 12.5#



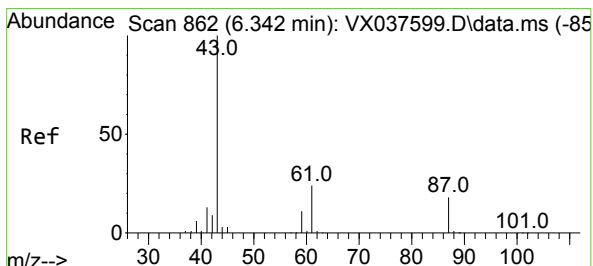
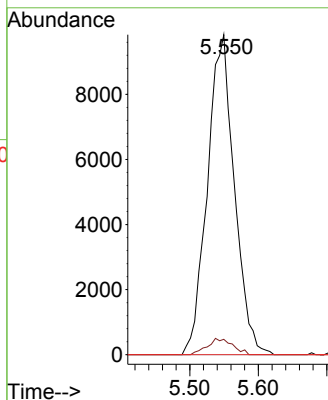
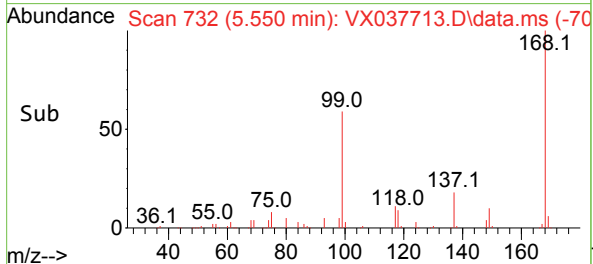


#38
Carbon Tetrachloride
Concen: 6.153 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

Instrument :
MSVOA_X
ClientSampleId :

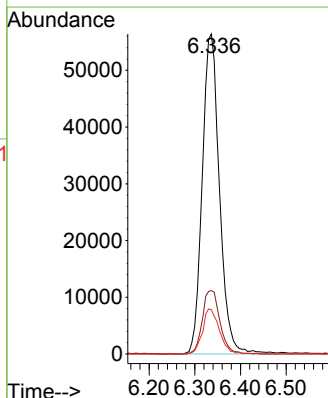
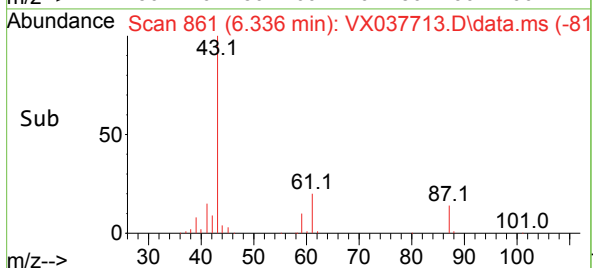
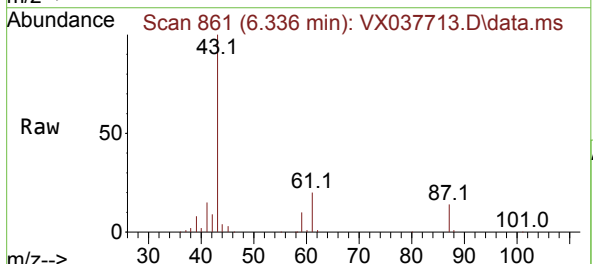


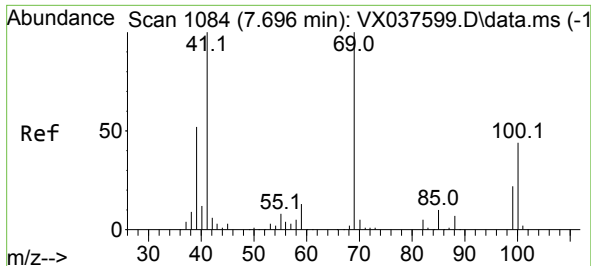
Tgt Ion:117 Resp: 26879
Ion Ratio Lower Upper
117 100
119 4.8 78.2 117.2#
121 0.0 24.4 36.6#



#43
Isopropyl Acetate
Concen: 18.897 ug/l
RT: 6.336 min Scan# 861
Delta R.T. -0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

Tgt Ion: 43 Resp: 147513
Ion Ratio Lower Upper
43 100
61 20.2 15.2 22.8
87 13.8 9.8 14.6

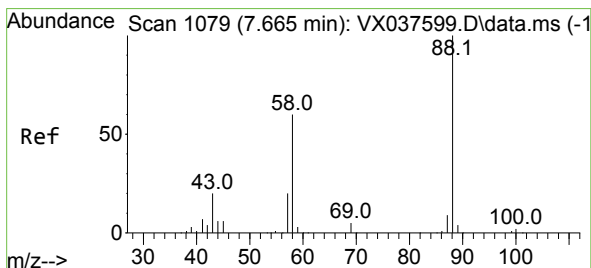
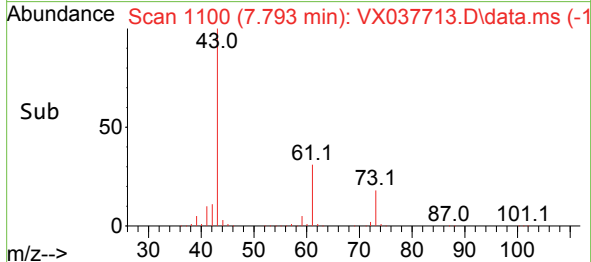
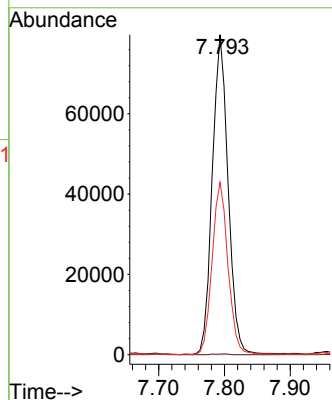
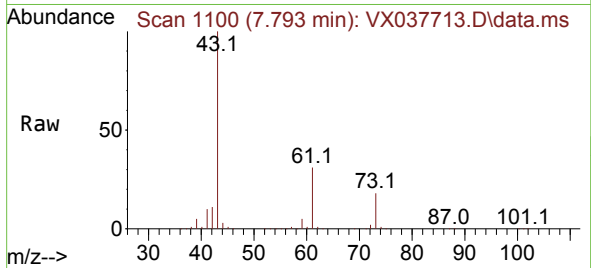




#48
Methyl methacrylate
Concen: 35.446 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.097 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

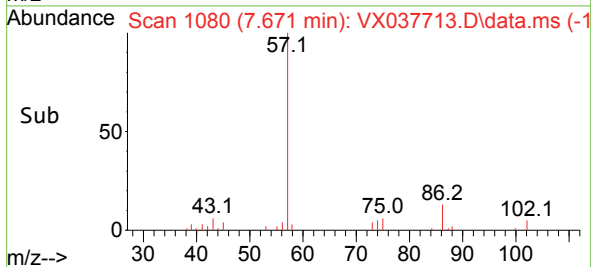
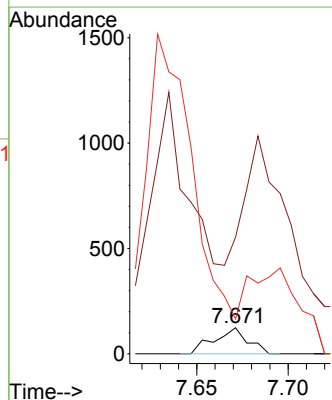
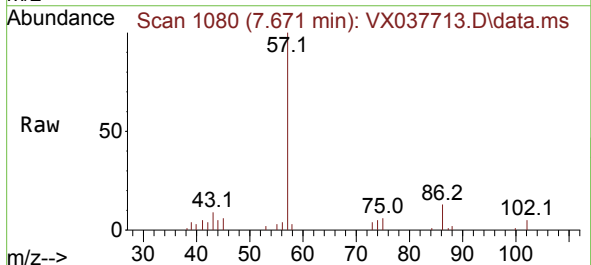
Instrument :
MSVOA_X
ClientSampleId :

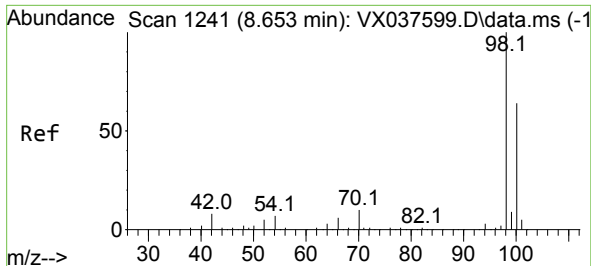
Tgt Ion: 41 Resp: 133755
Ion Ratio Lower Upper
41 100
69 0.2 59.2 88.8#
39 54.1 47.7 71.5



#49
1,4-Dioxane
Concen: 1.690 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. 0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

Tgt Ion: 88 Resp: 158
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 0.0 60.1 90.1#

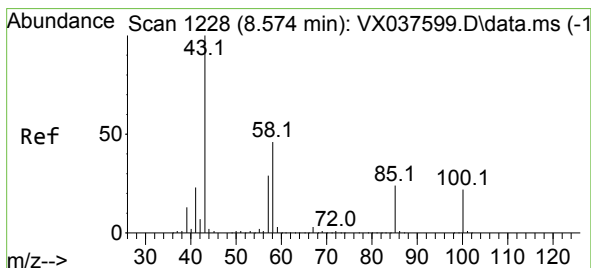
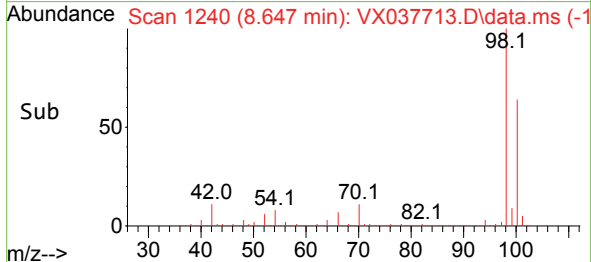
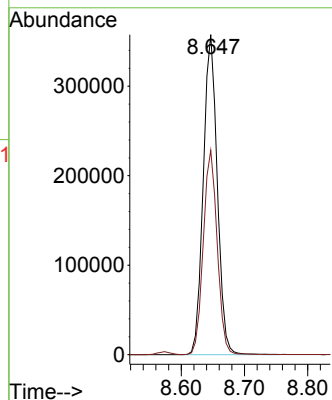
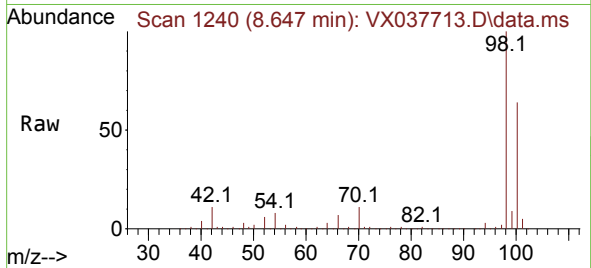




#50
Toluene-d8
Concen: 46.477 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

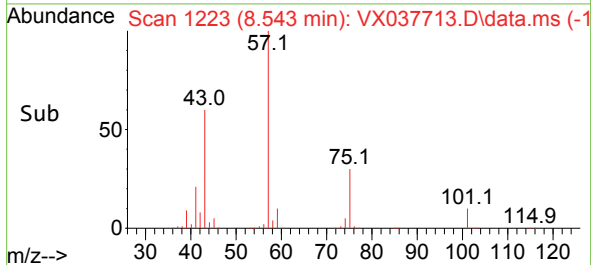
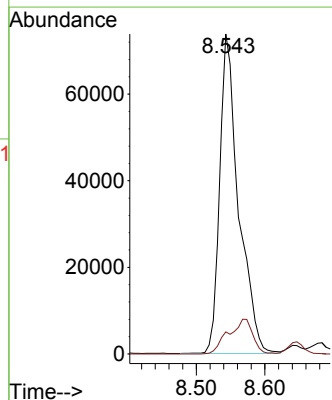
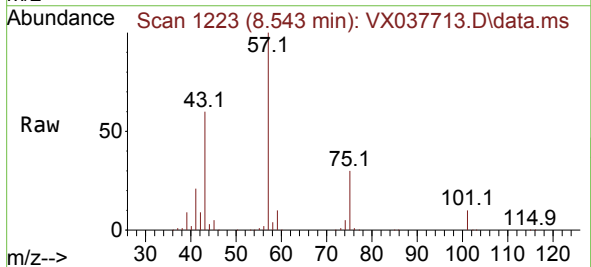
Instrument :
MSVOA_X
ClientSampleId :

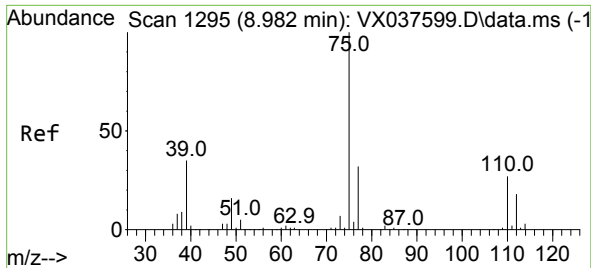
Tgt Ion: 98 Resp: 551009
Ion Ratio Lower Upper
98 100
100 63.3 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 27.495 ug/l
RT: 8.543 min Scan# 1223
Delta R.T. -0.031 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

Tgt Ion: 43 Resp: 140935
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#

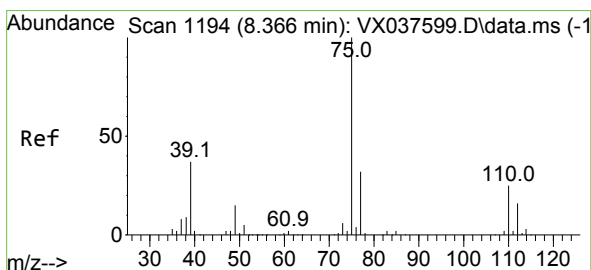
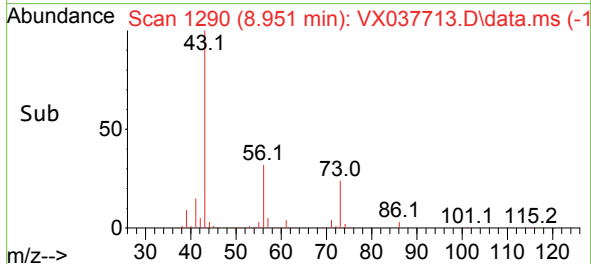
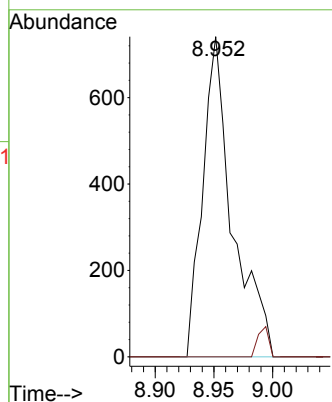
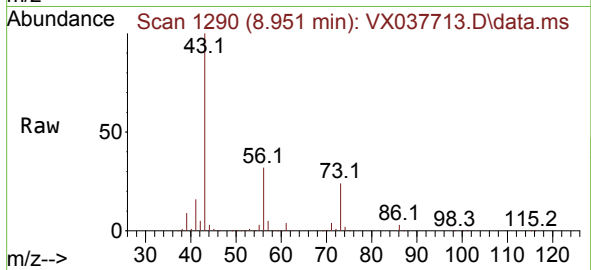




#53
 t-1,3-Dichloropropene
 Concen: 0.287 ug/l
 RT: 8.951 min Scan# 11
 Delta R.T. -0.030 min
 Lab File: VX037713.D
 Acq: 14 Sep 2023 06:11

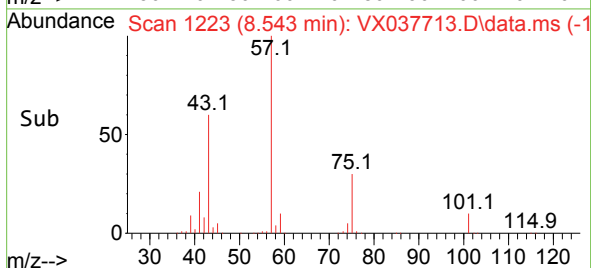
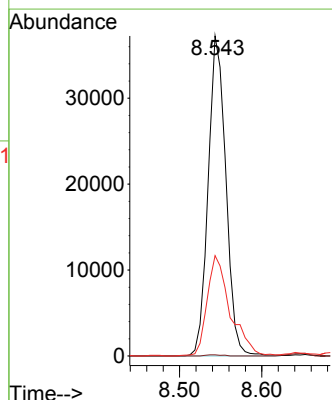
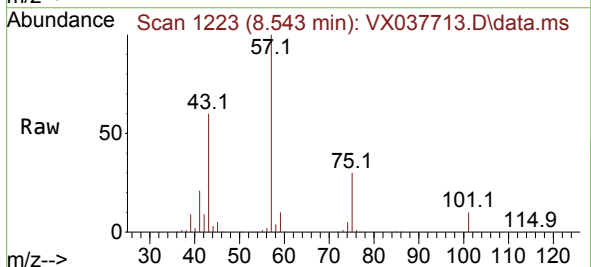
Instrument :
 MSVOA_X
 ClientSampleId :

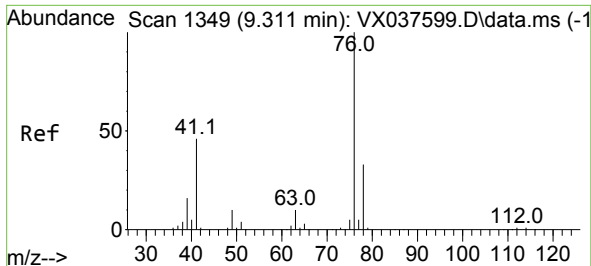
Tgt Ion: 75 Resp: 1307
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#



#54
 cis-1,3-Dichloropropene
 Concen: 11.147 ug/l
 RT: 8.543 min Scan# 1223
 Delta R.T. 0.177 min
 Lab File: VX037713.D
 Acq: 14 Sep 2023 06:11

Tgt Ion: 75 Resp: 55721
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.3 37.9#
 39 31.2 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 1.224 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.171 min

Lab File: VX037713.D

Acq: 14 Sep 2023 06:11

Instrument :

MSVOA_X

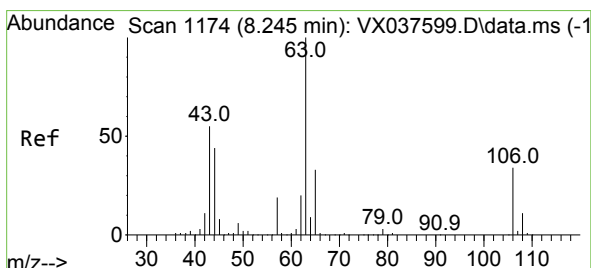
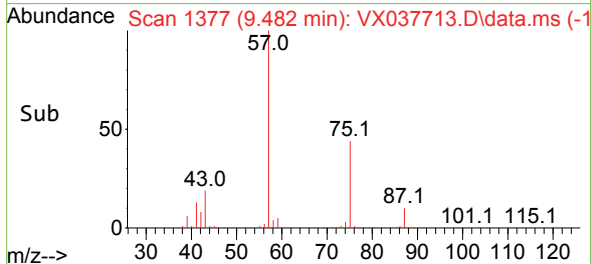
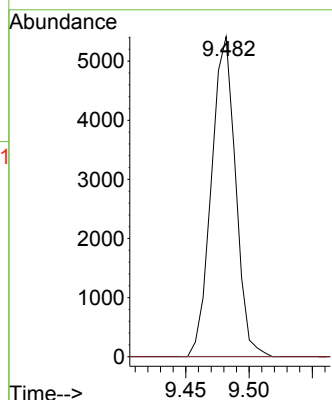
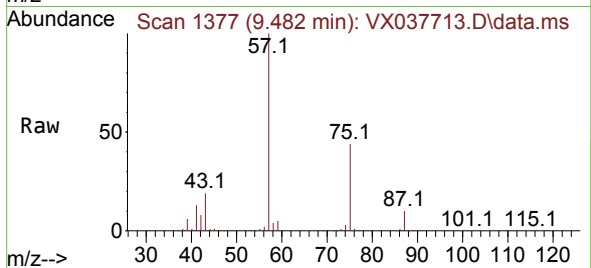
ClientSampleId :

Tgt Ion: 76 Resp: 7205

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#58

2-Chloroethyl Vinyl ether

Concen: 0.455 ug/l

RT: 8.250 min Scan# 1175

Delta R.T. 0.006 min

Lab File: VX037713.D

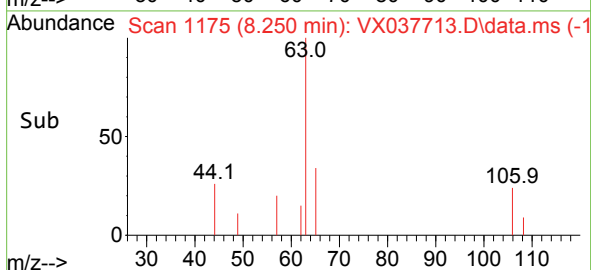
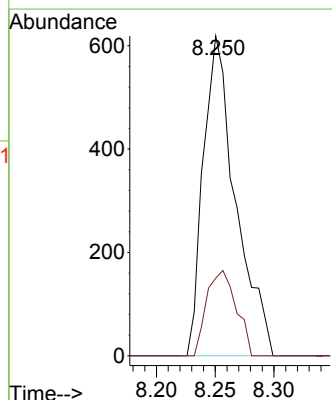
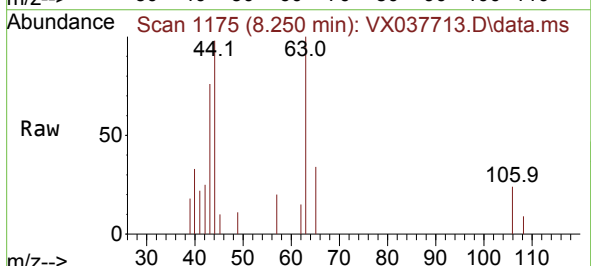
Acq: 14 Sep 2023 06:11

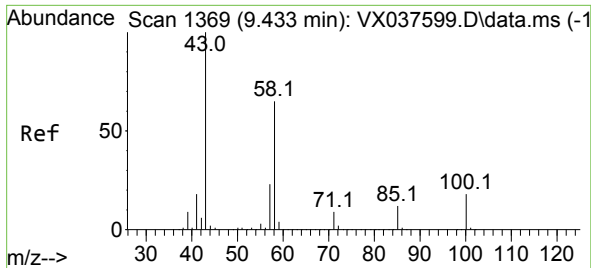
Tgt Ion: 63 Resp: 1185

Ion Ratio Lower Upper

63 100

106 24.3 22.5 33.7

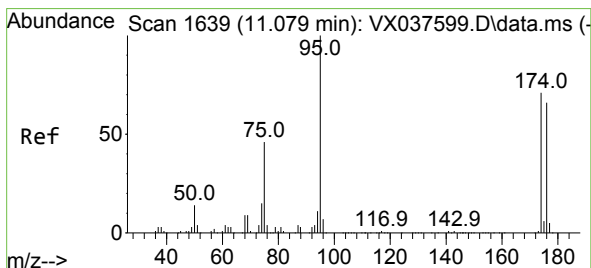
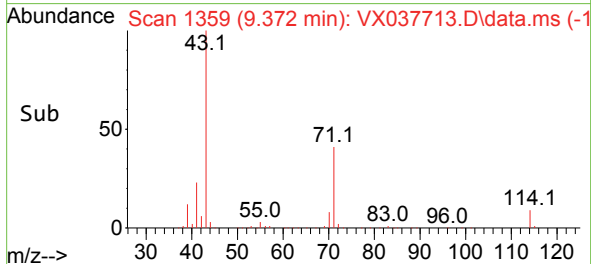
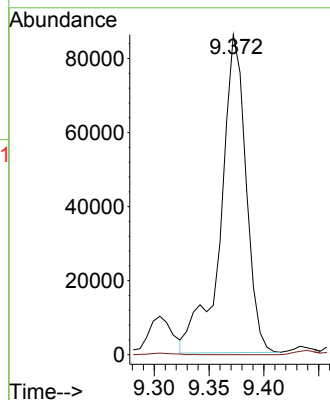
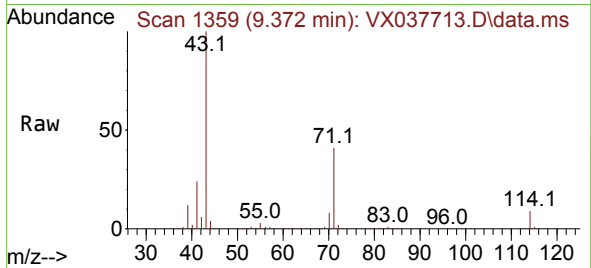




#59
2-Hexanone
Concen: 34.772 ug/l
RT: 9.372 min Scan# 11
Delta R.T. -0.061 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

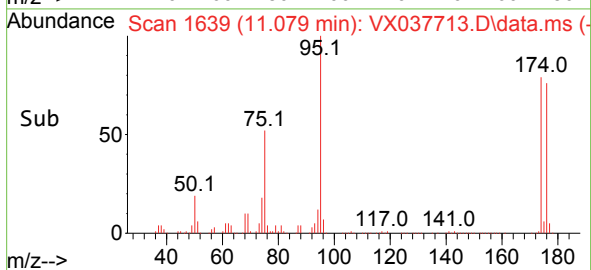
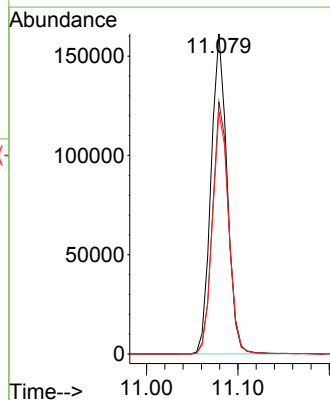
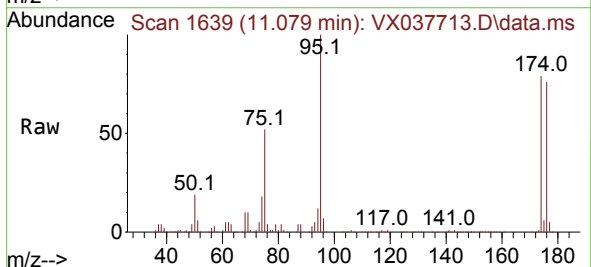
Instrument :
MSVOA_X
ClientSampleId :

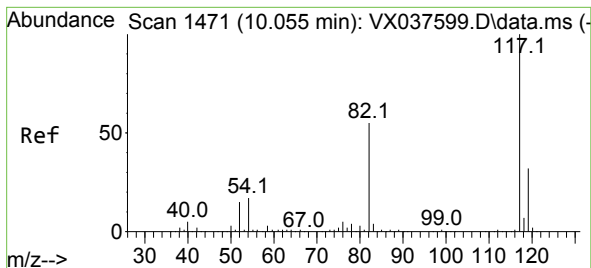
Tgt Ion: 43 Resp: 137579
Ion Ratio Lower Upper
43 100
58 0.0 26.2 78.5#



#62
4-Bromofluorobenzene
Concen: 45.910 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

Tgt Ion: 95 Resp: 196365
Ion Ratio Lower Upper
95 100
174 79.4 0.0 135.6
176 76.4 0.0 131.0

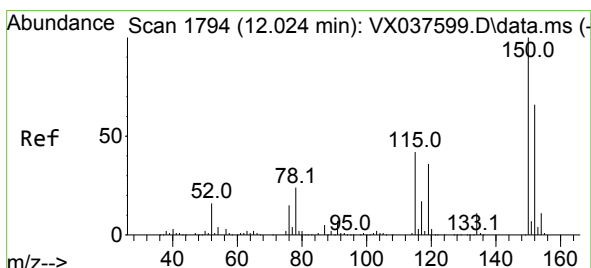
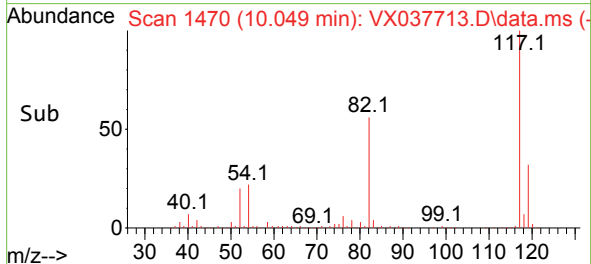
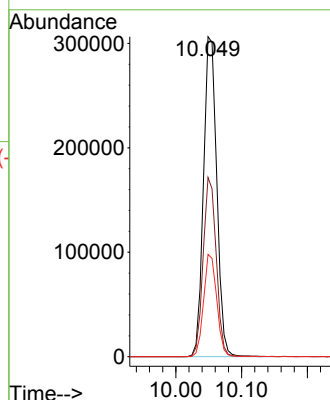
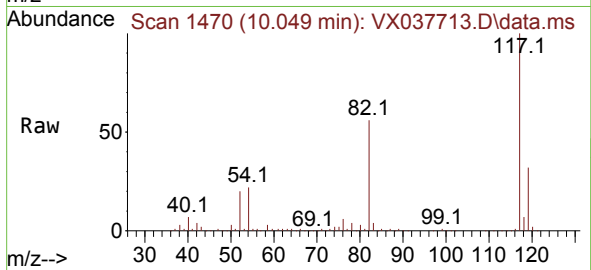




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

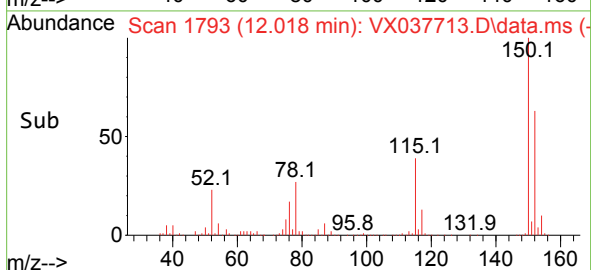
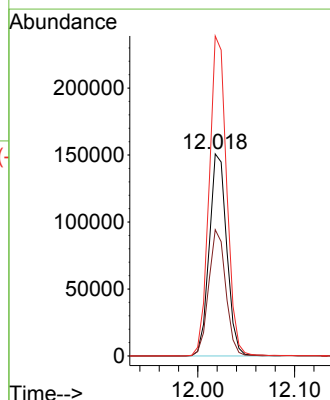
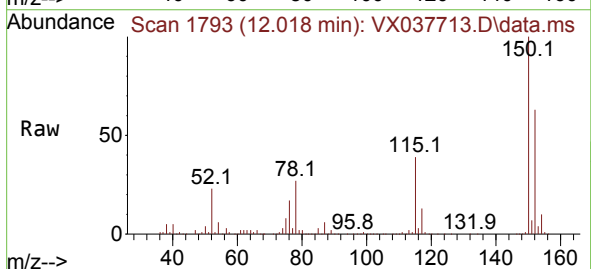
Instrument :
MSVOA_X
ClientSampleId :

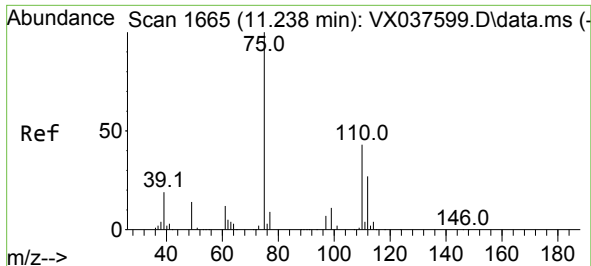
Tgt Ion:117 Resp: 430071
Ion Ratio Lower Upper
117 100
82 56.0 46.2 69.4
119 31.9 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

Tgt Ion:152 Resp: 190032
Ion Ratio Lower Upper
152 100
115 61.1 43.3 129.9
150 158.3 0.0 345.0

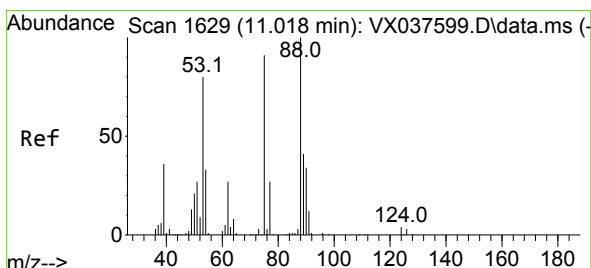
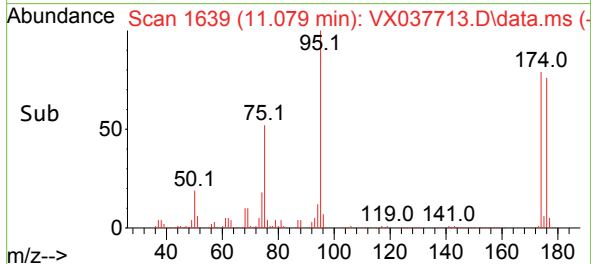
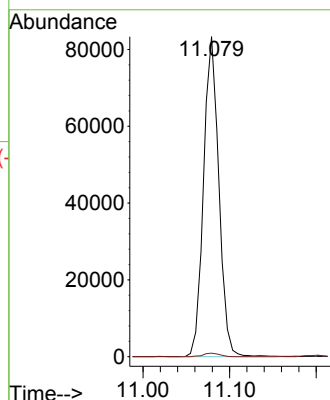
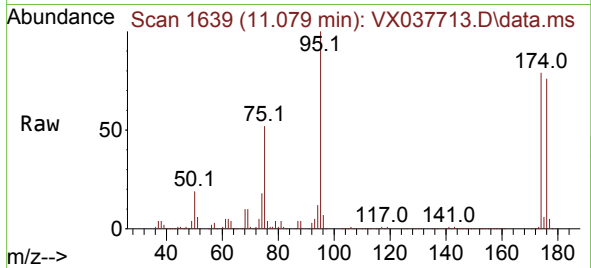




#76
1,2,3-Trichloropropane
Concen: 24.459 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

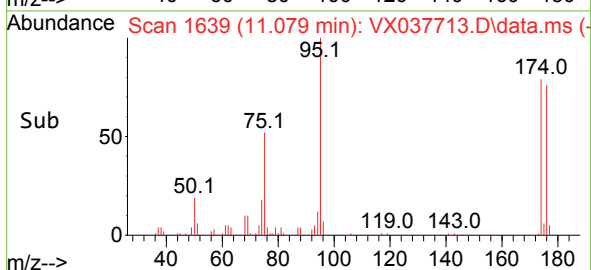
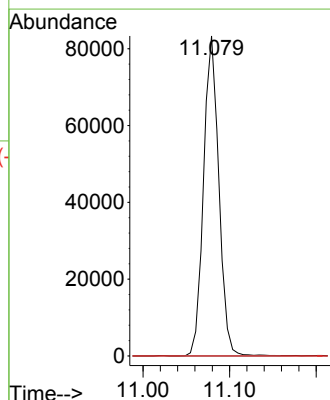
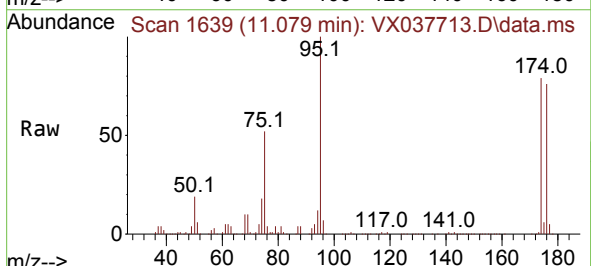
Instrument :
MSVOA_X
ClientSampleId :

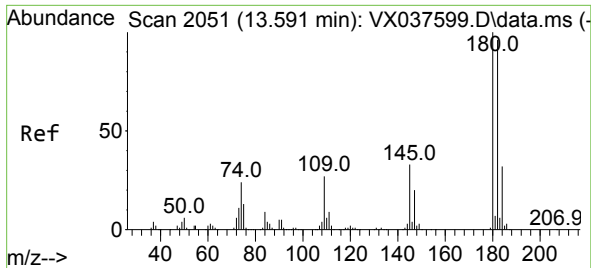
Tgt Ion: 75 Resp: 102184
Ion Ratio Lower Upper
75 100
77 1.2 19.1 57.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 74.348 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

Tgt Ion: 75 Resp: 102184
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#

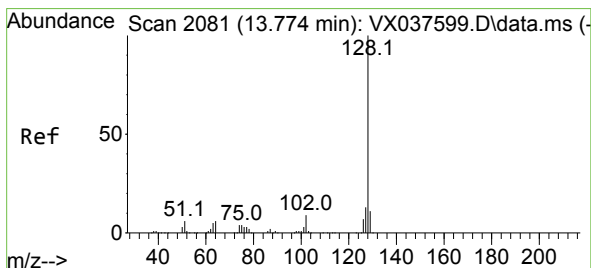
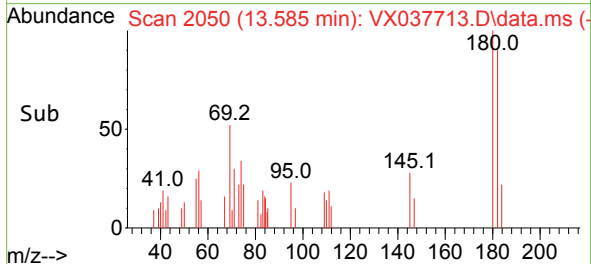
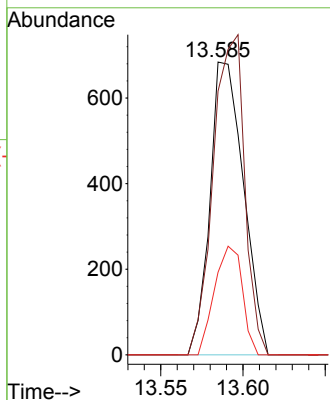
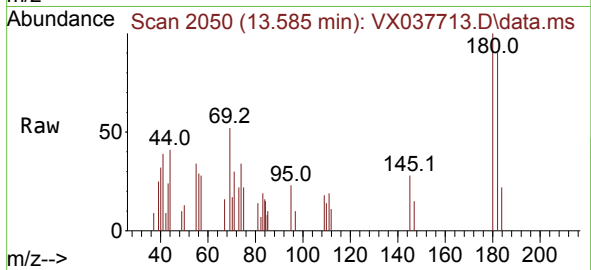




#93
1,2,4-Trichlorobenzene
Concen: 0.252 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

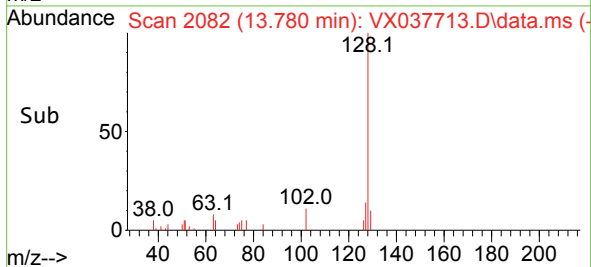
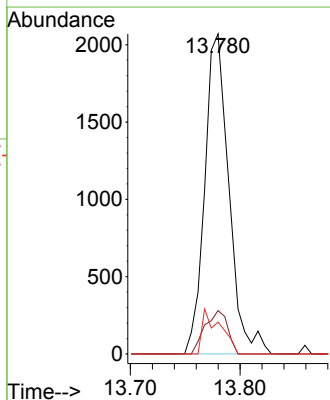
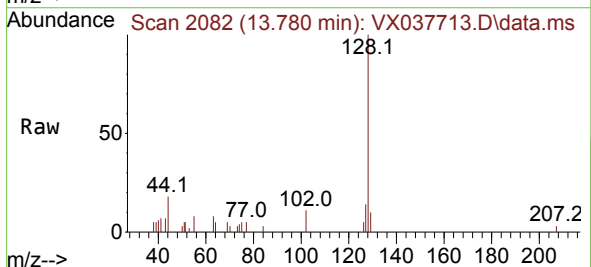
Instrument :
MSVOA_X
ClientSampleId :

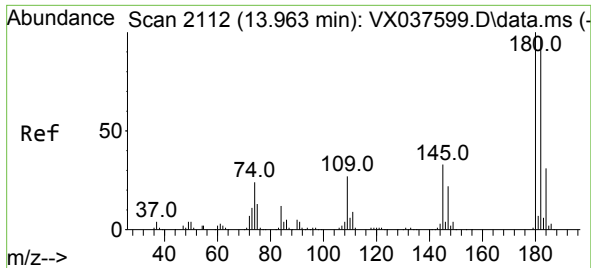
Tgt Ion:180 Resp: 971
Ion Ratio Lower Upper
180 100
182 102.2 48.3 144.8
145 30.8 18.0 54.0



#95
Naphthalene
Concen: 0.227 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX037713.D
Acq: 14 Sep 2023 06:11

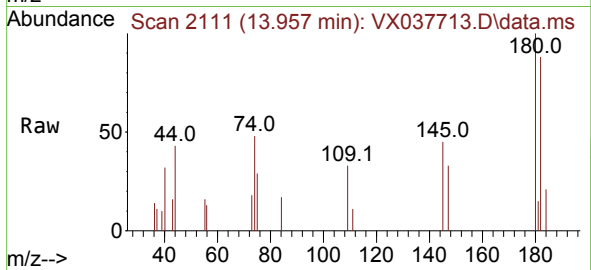
Tgt Ion:128 Resp: 3177
Ion Ratio Lower Upper
128 100
127 12.7 10.3 15.5
129 10.5 8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 0.240 ug/l
 RT: 13.957 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VX037713.D
 Acq: 14 Sep 2023 06:11

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:	180	Resp:	951
Ion	Ratio	Lower	Upper
180	100		
182	99.8	46.9	140.6
145	32.0	17.8	53.5

