

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012323\
 Data File : VX033841.D
 Acq On : 23 Jan 2023 12:05
 Operator : JC/MD
 Sample : PB150369TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

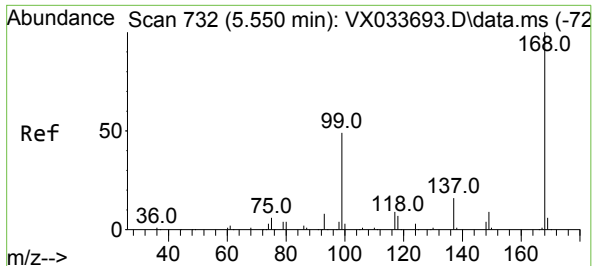
Instrument :
 MSVOA_X
 ClientSampleId :
 PB150369TB

Quant Time: Jan 24 00:38:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011123W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 11 14:48:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.549	168	158551	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	233083	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	205359	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	96482	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	76407	45.769	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.540%		
35) Dibromofluoromethane	5.385	113	71954	49.715	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.440%		
50) Toluene-d8	8.646	98	264576	50.172	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	100.340%		
62) 4-Bromofluorobenzene	11.079	95	91350	46.657	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.320%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.946	59	969	3.341	ug/l #	86
13) Acrolein	2.233	56	83	0.310	ug/l #	14
16) Acetone	2.392	43	13096	9.677	ug/l	90
17) Carbon Disulfide	2.507	76	938	2.099	ug/l #	89
18) Methyl Acetate	2.709	43	1460	0.627	ug/l	95
20) Methylene Chloride	2.788	84	4560	0.670	ug/l	92
25) 2-Butanone	4.580	43	660	0.605	ug/l #	90
31) Cyclohexane	5.549	56	2443	0.994	ug/l #	1
36) 1,1-Dichloropropene	5.549	75	9593	4.541	ug/l #	50
37) Ethyl Acetate	4.720	43	20592	7.805	ug/l	99
38) Carbon Tetrachloride	5.556	117	13444	6.145	ug/l #	16
43) Isopropyl Acetate	6.336	43	91619	27.475	ug/l	98
48) Methyl methacrylate	7.799	41	77554	46.169	ug/l #	44
49) 1,4-Dioxane	7.793	88	126	3.391	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	70732	34.538	ug/l #	50
53) t-1,3-Dichloropropene	8.951	75	832	0.401	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	34471	14.817	ug/l #	59
56) Ethyl methacrylate	9.244	69	551	0.249	ug/l #	1
57) 1,3-Dichloropropane	9.482	76	4548	1.782	ug/l #	43
59) 2-Hexanone	9.482	43	60061	42.136	ug/l #	50
64) Tetrachloroethene	9.268	164	31	Below Cal	#	1
73) Isopropylbenzene	10.963	105	232	Below Cal	#	48
74) N-amyl acetate	10.640	43	23472	9.264	ug/l #	51
76) 1,2,3-Trichloropropane	11.079	75	43010	24.262	ug/l #	34
77) Bromobenzene	11.207	156	46	Below Cal	#	1
79) 2-Chlorotoluene	11.366	91	213	Below Cal		71
81) trans-1,4-Dichloro-2-b...	11.079	75	43010	75.404	ug/l #	8
82) 4-Chlorotoluene	11.366	91	213	Below Cal		77
94) Hexachlorobutadiene	13.725	225	374	0.360	ug/l	90

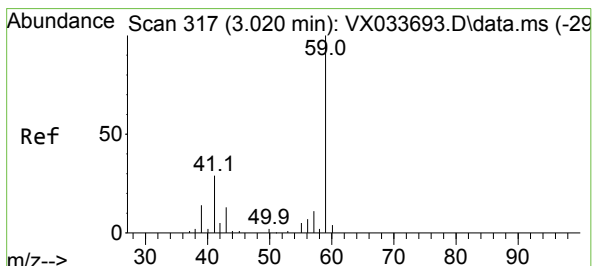
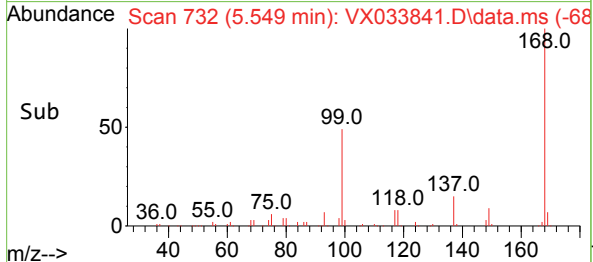
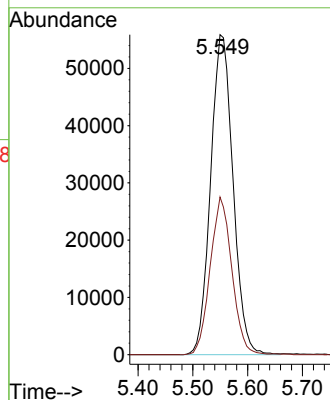
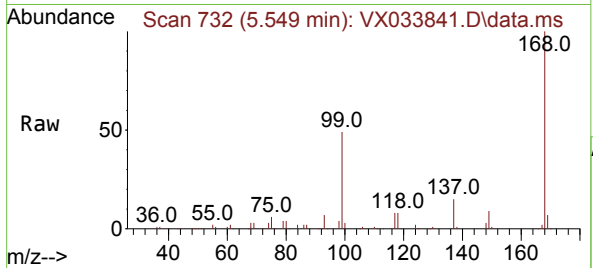
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 71
Delta R.T. -0.001 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

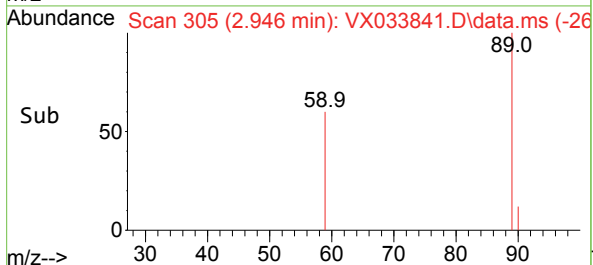
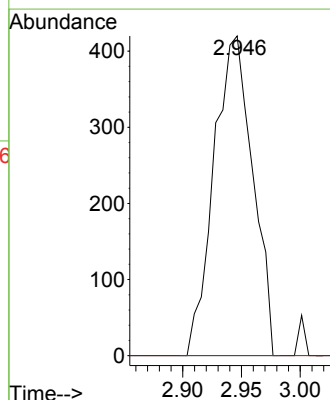
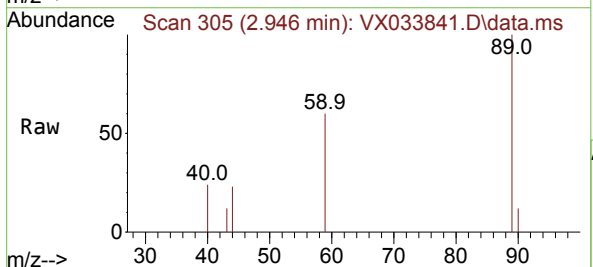
Instrument :
MSVOA_X
ClientSampleId :
PB150369TB

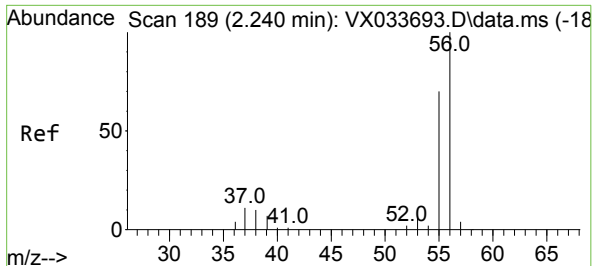
Tgt Ion:168 Resp: 158551
Ion Ratio Lower Upper
168 100
99 49.3 39.6 59.4



#11
Tert butyl alcohol
Concen: 3.341 ug/l
RT: 2.946 min Scan# 305
Delta R.T. -0.074 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

Tgt Ion: 59 Resp: 969
Ion Ratio Lower Upper
59 100
57 0.0 3.7 5.5#

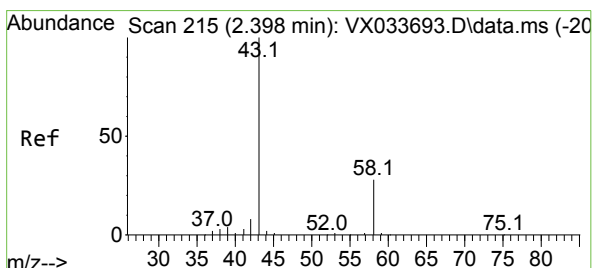
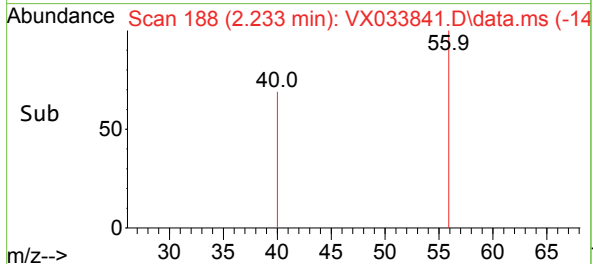
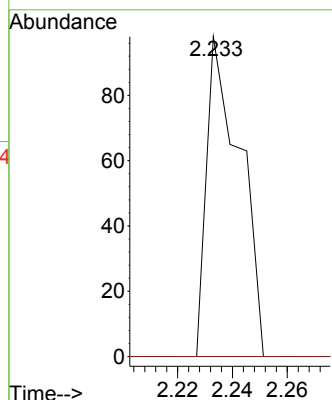
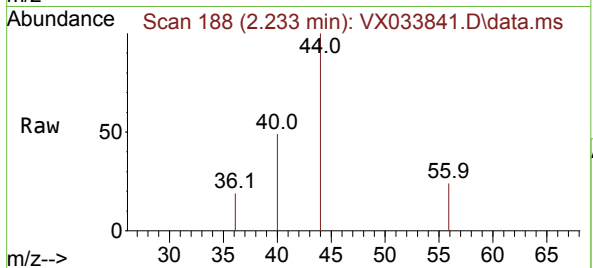




#13
Acrolein
Concen: 0.310 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

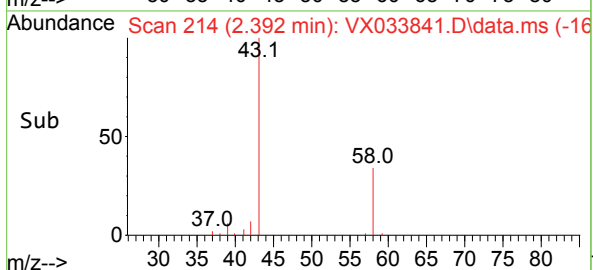
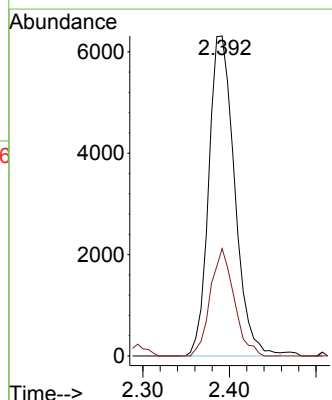
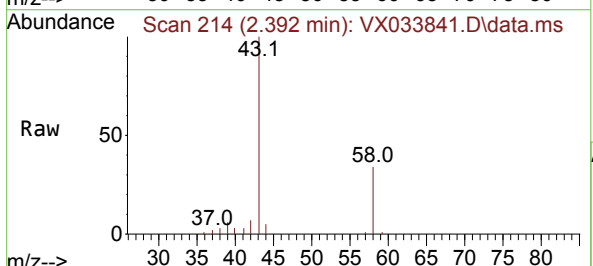
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MSVOA_X
ClientSampleId :
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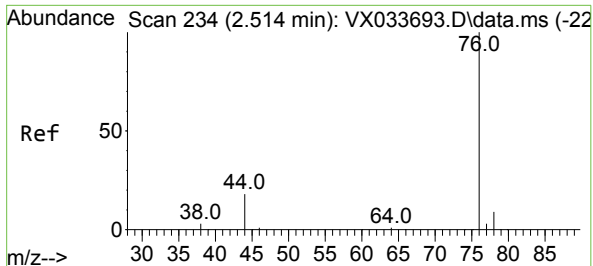
Tgt Ion: 56 Resp: 83
Ion Ratio Lower Upper
56 100
55 0.0 56.3 84.5#



#16
Acetone
Concen: 9.677 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

Tgt Ion: 43 Resp: 13096
Ion Ratio Lower Upper
43 100
58 33.5 22.6 33.8

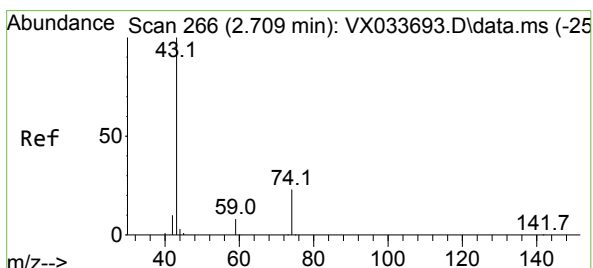
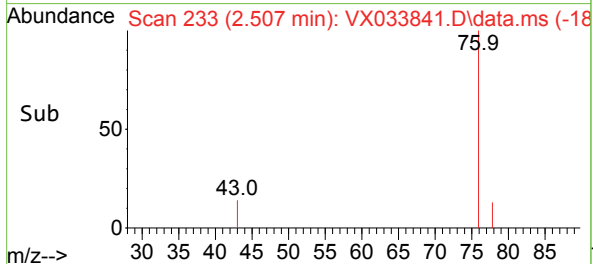
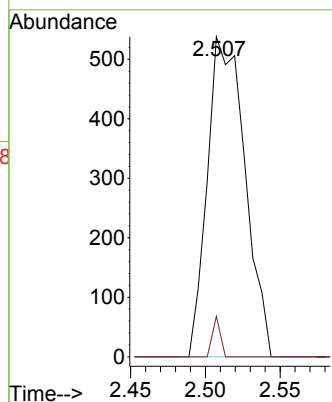
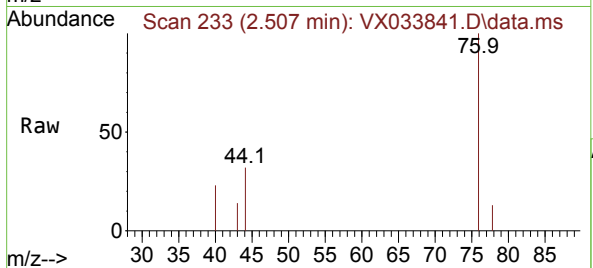




#17
Carbon Disulfide
Concen: 2.099 ug/l
RT: 2.507 min Scan# 21
Delta R.T. -0.007 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

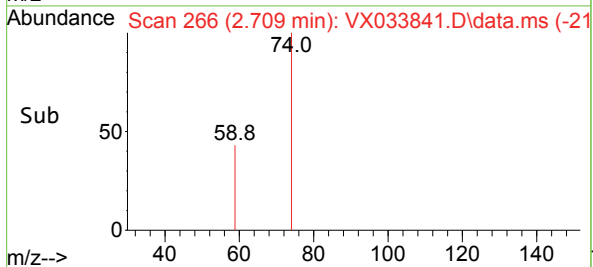
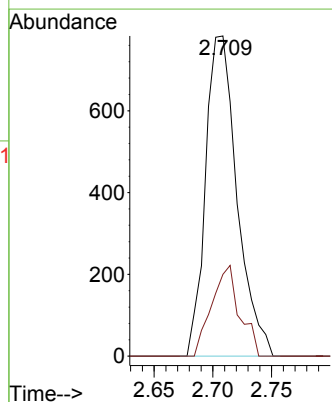
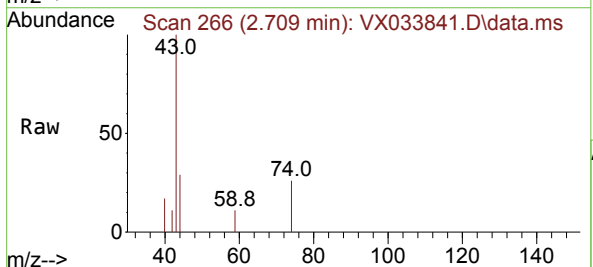
Instrument :
MSVOA_X
ClientSampleId :
PB150369TB

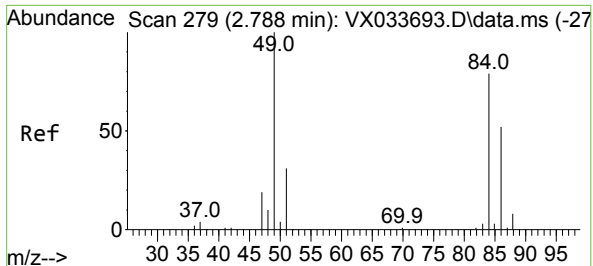
Tgt Ion: 76 Resp: 938
Ion Ratio Lower Upper
76 100
78 12.6 7.0 10.6#



#18
Methyl Acetate
Concen: 0.627 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

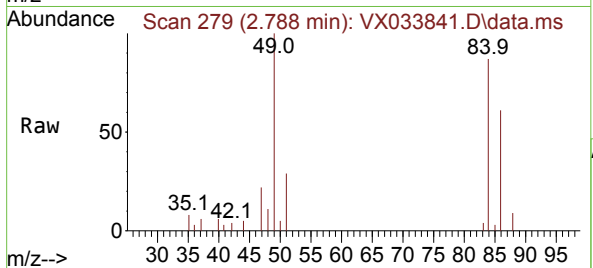
Tgt Ion: 43 Resp: 1460
Ion Ratio Lower Upper
43 100
74 25.1 18.2 27.4



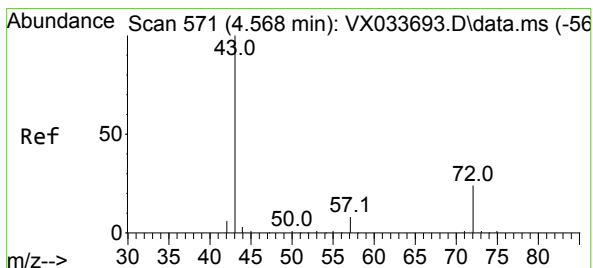
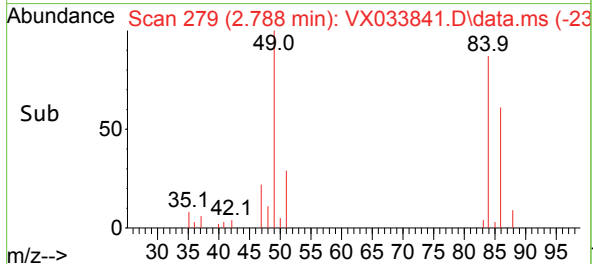
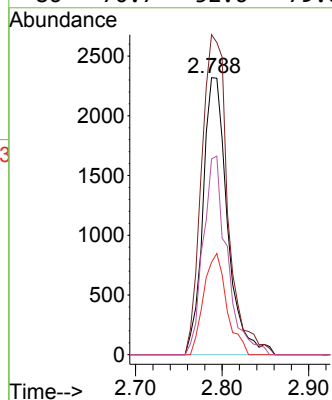


#20
Methylene Chloride
Concen: 0.670 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

Instrument :
MSVOA_X
ClientSampleId :
PB150369TB

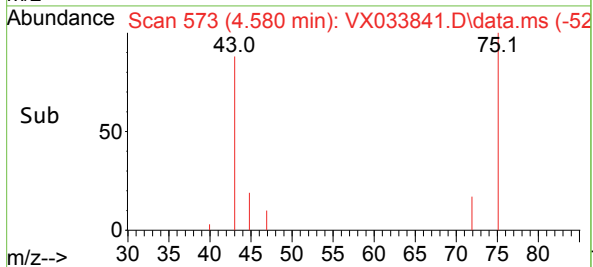
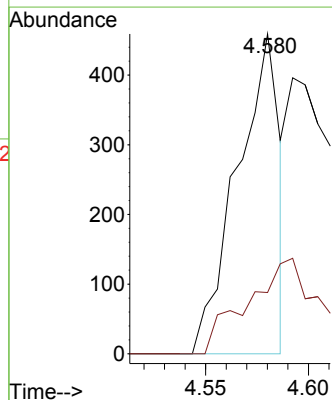
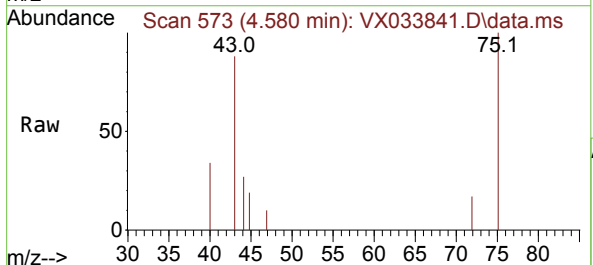


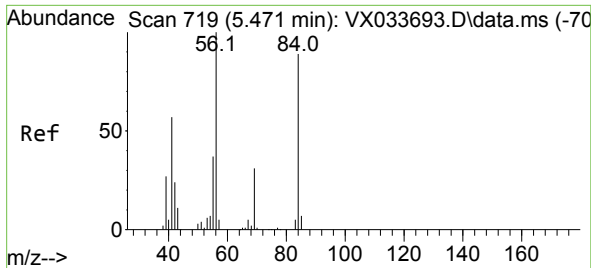
Tgt Ion:	84	Resp:	4560
Ion	Ratio	Lower	Upper
84	100		
49	115.5	101.1	151.7
51	33.4	31.0	46.6
86	70.7	52.6	79.0



#25
2-Butanone
Concen: 0.605 ug/l
RT: 4.580 min Scan# 573
Delta R.T. 0.012 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

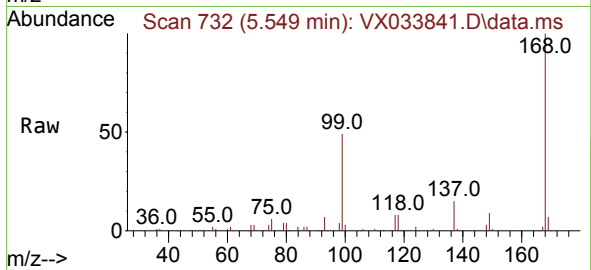
Tgt Ion:	43	Resp:	660
Ion	Ratio	Lower	Upper
43	100		
72	19.2	19.4	29.2#



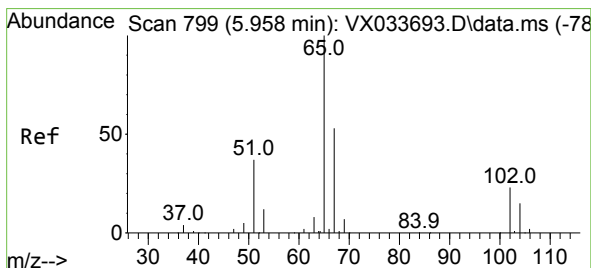
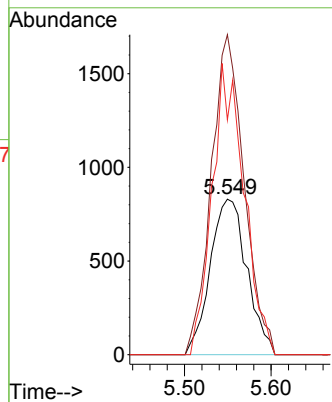
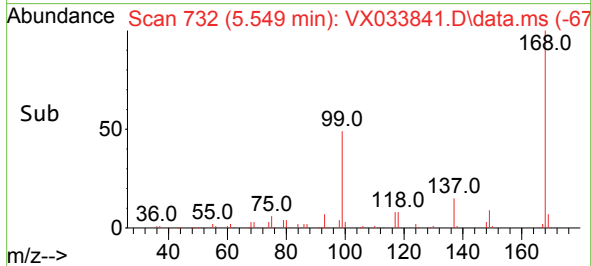


#31
Cyclohexane
Concen: 0.994 ug/l
RT: 5.549 min Scan# 719
Delta R.T. 0.079 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

Instrument :
MSVOA_X
ClientSampleId :
PB150369TB

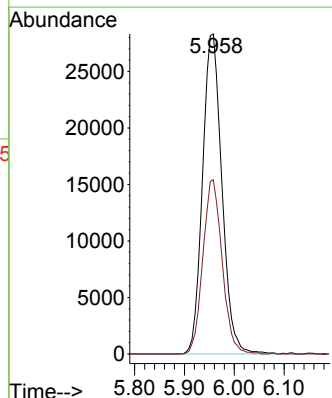
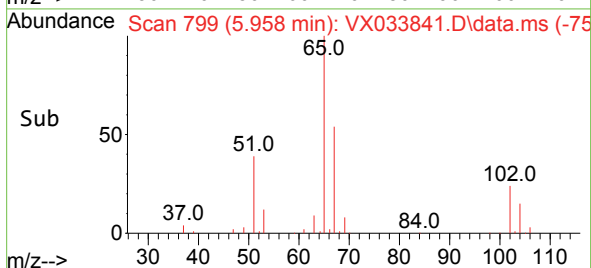
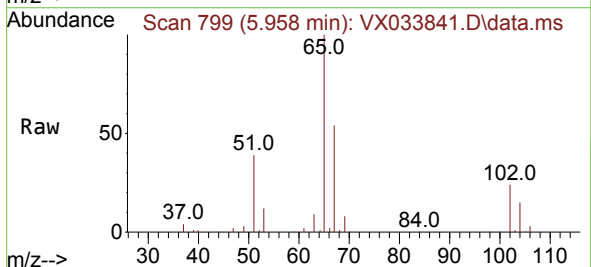


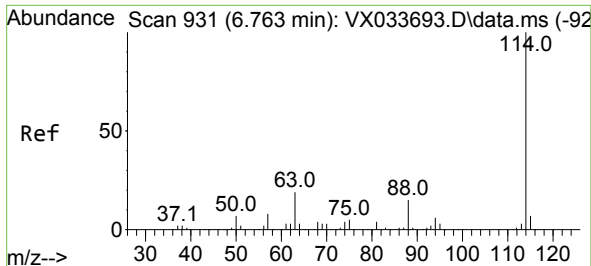
Tgt Ion: 56 Resp: 2443
Ion Ratio Lower Upper
56 100
69 205.8 24.6 37.0#
84 151.0 71.0 106.6#



#33
1,2-Dichloroethane-d4
Concen: 45.769 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

Tgt Ion: 65 Resp: 76407
Ion Ratio Lower Upper
65 100
67 54.2 0.0 104.8

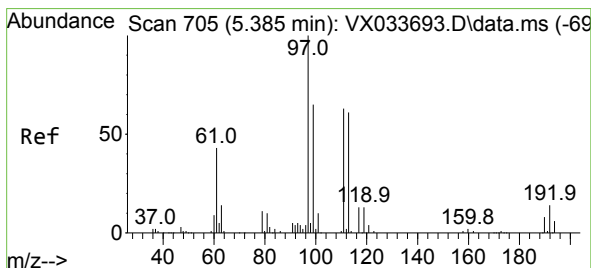
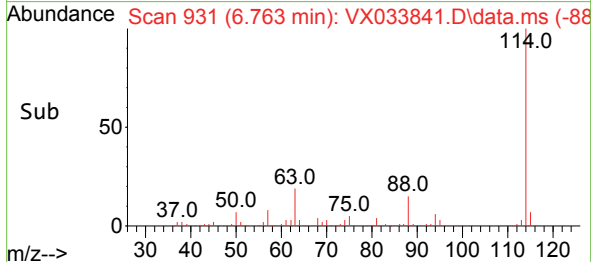
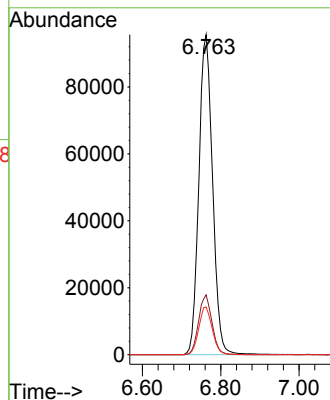
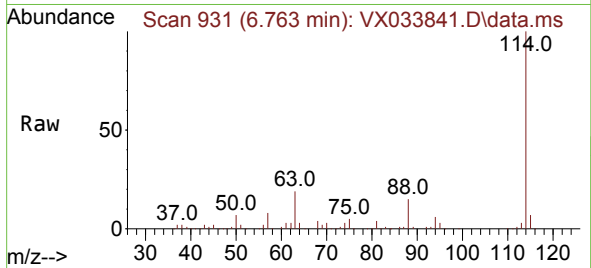




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

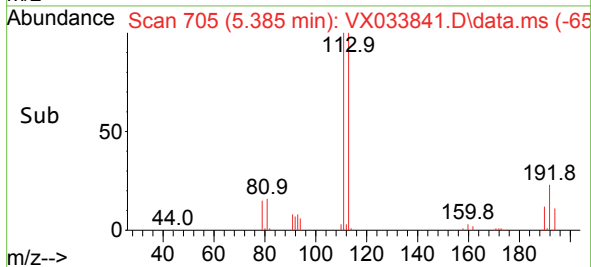
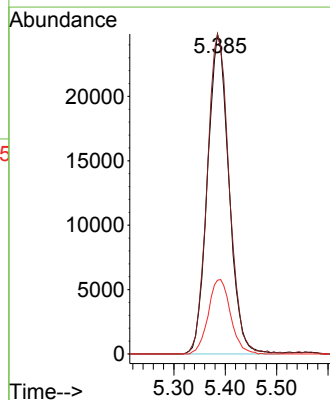
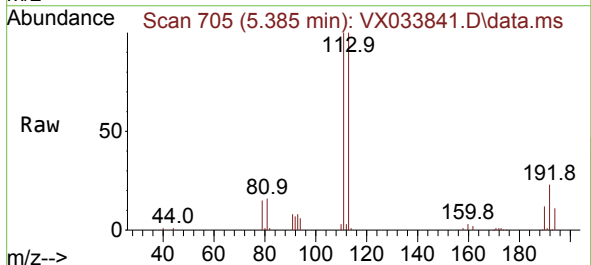
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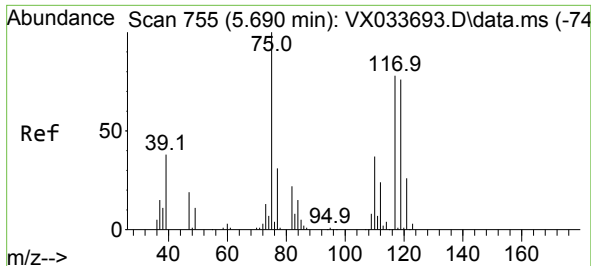
Tgt Ion:114 Resp: 233083
Ion Ratio Lower Upper
114 100
63 18.7 0.0 37.4
88 14.9 0.0 30.6



#35
Dibromofluoromethane
Concen: 49.715 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

Tgt Ion:113 Resp: 71954
Ion Ratio Lower Upper
113 100
111 103.0 83.0 124.6
192 24.2 19.0 28.4





#36

1,1-Dichloropropene

Concen: 4.541 ug/l

RT: 5.549 min Scan# 71

Delta R.T. -0.141 min

Lab File: VX033841.D

Acq: 23 Jan 2023 12:05

Instrument :

MSVOA_X

ClientSampleId :

PB150369TB

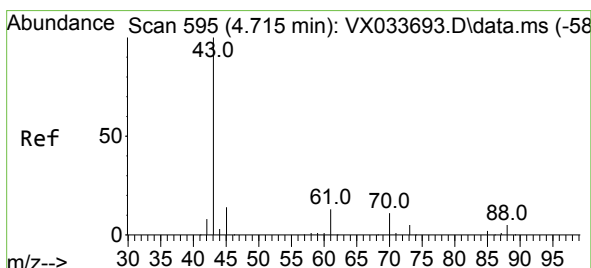
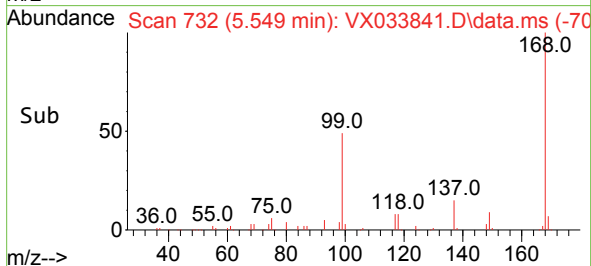
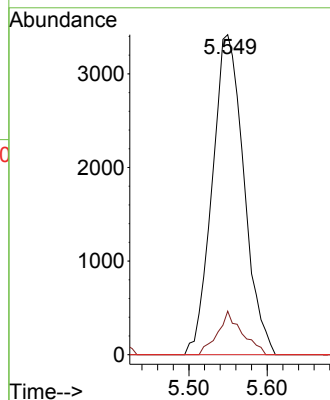
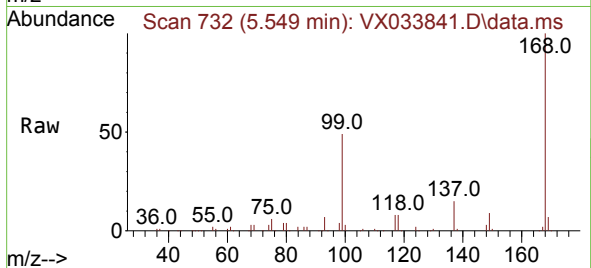
Tgt Ion: 75 Resp: 9593

Ion Ratio Lower Upper

75 100

110 10.5 18.8 56.4#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 7.805 ug/l

RT: 4.720 min Scan# 596

Delta R.T. 0.005 min

Lab File: VX033841.D

Acq: 23 Jan 2023 12:05

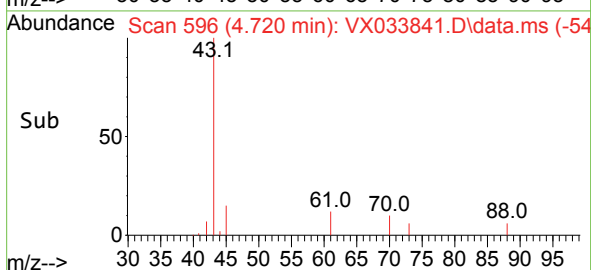
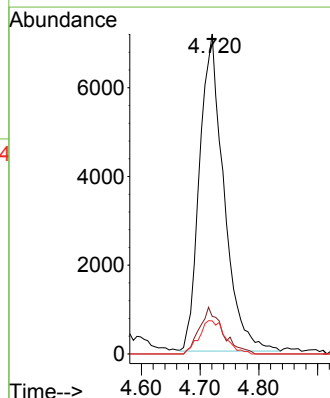
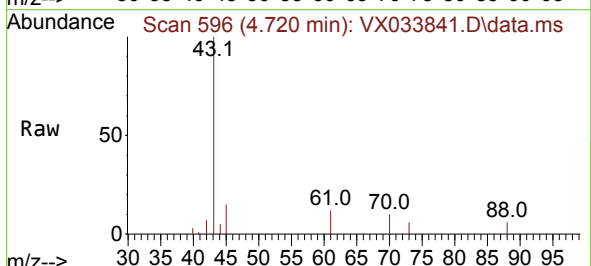
Tgt Ion: 43 Resp: 20592

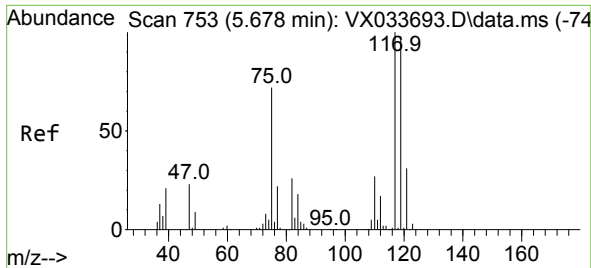
Ion Ratio Lower Upper

43 100

61 14.1 11.1 16.7

70 11.3 8.5 12.7





#38

Carbon Tetrachloride

Concen: 6.145 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.122 min

Lab File: VX033841.D

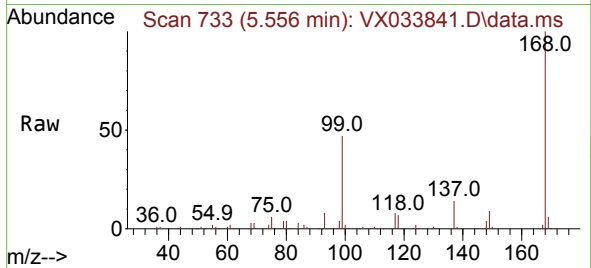
Acq: 23 Jan 2023 12:05

Instrument :

MSVOA_X

ClientSampleId :

PB150369TB



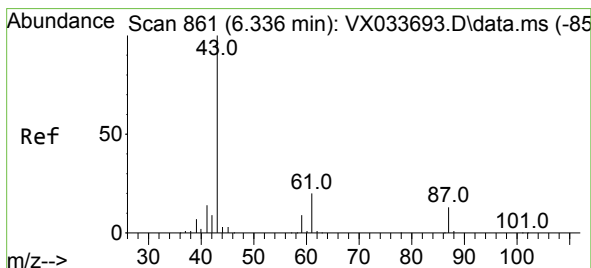
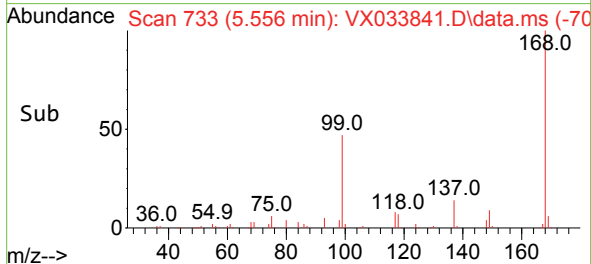
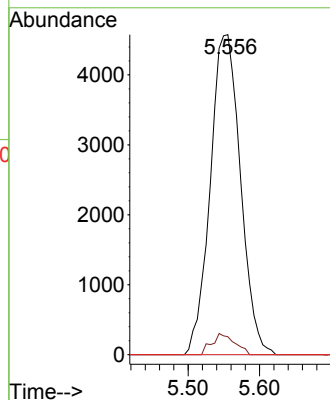
Tgt Ion:117 Resp: 13444

Ion Ratio Lower Upper

117 100

119 5.6 78.0 117.0#

121 0.0 24.4 36.6#



#43

Isopropyl Acetate

Concen: 27.475 ug/l

RT: 6.336 min Scan# 861

Delta R.T. -0.000 min

Lab File: VX033841.D

Acq: 23 Jan 2023 12:05

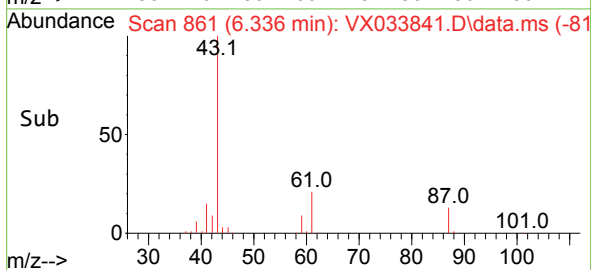
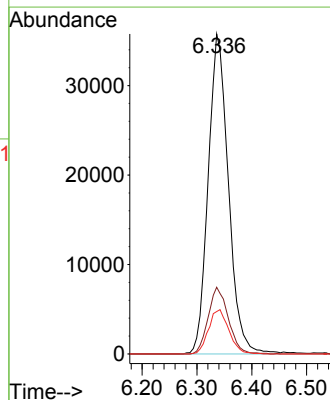
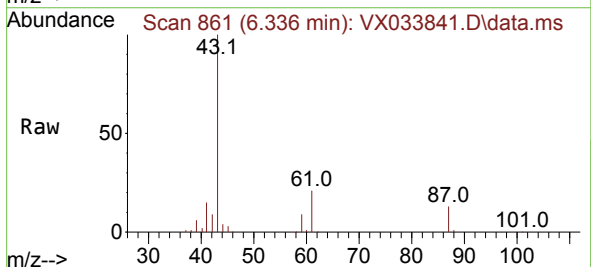
Tgt Ion: 43 Resp: 91619

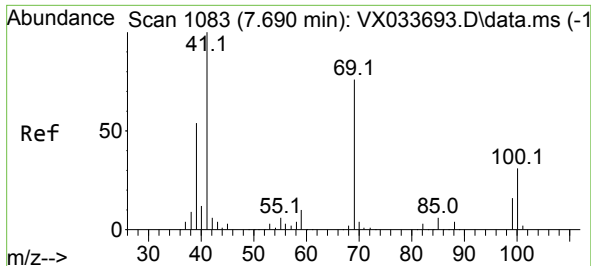
Ion Ratio Lower Upper

43 100

61 20.8 15.7 23.5

87 13.9 10.6 15.8





#48

Methyl methacrylate

Concen: 46.169 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.109 min

Lab File: VX033841.D

Acq: 23 Jan 2023 12:05

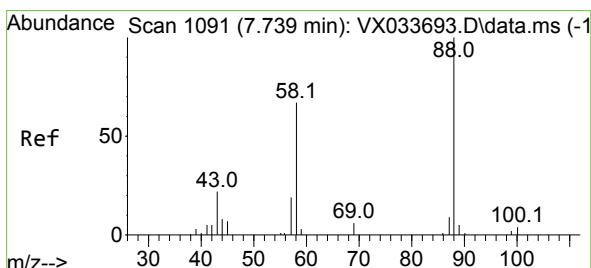
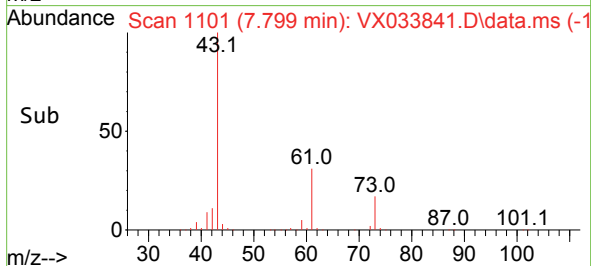
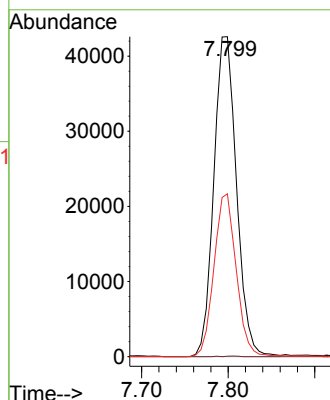
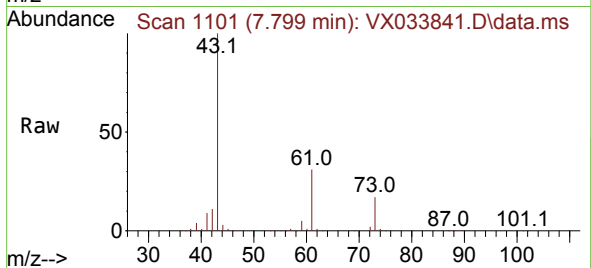
Instrument :

MSVOA_X

ClientSampleId :

PB150369TB

Tgt Ion: 41	Resp: 77554
Ion Ratio	Lower Upper
41	100
69	0.1 63.1 94.7#
39	50.2 43.2 64.8



#49

1,4-Dioxane

Concen: 3.391 ug/l

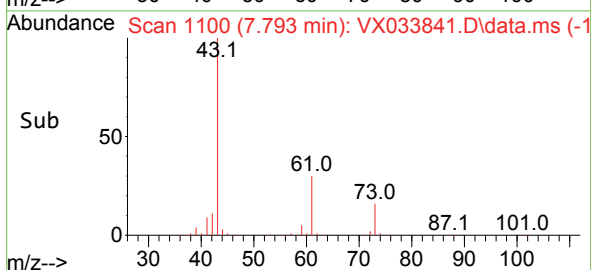
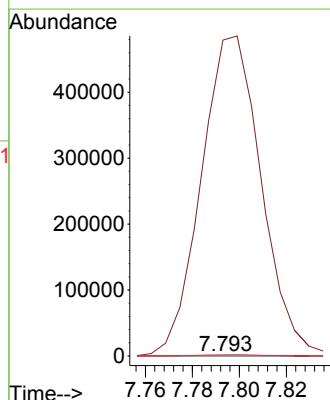
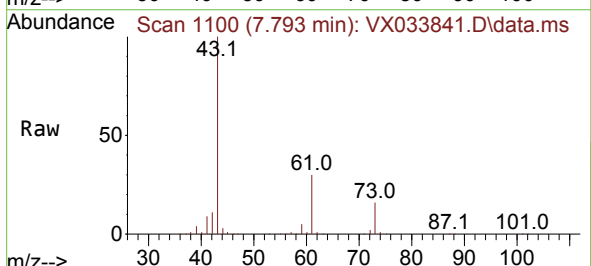
RT: 7.793 min Scan# 1100

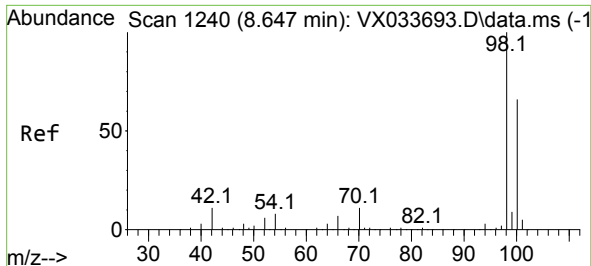
Delta R.T. 0.054 min

Lab File: VX033841.D

Acq: 23 Jan 2023 12:05

Tgt Ion: 88	Resp: 126
Ion Ratio	Lower Upper
88	100
43	691469.0 0.0 0.0#
58	2767.5 56.5 84.7#

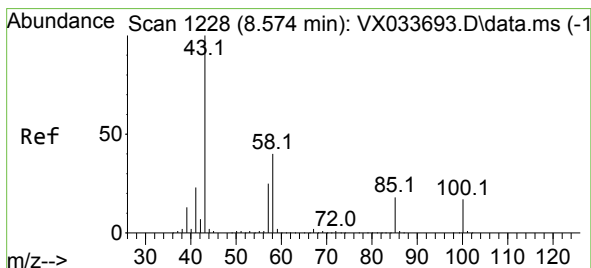
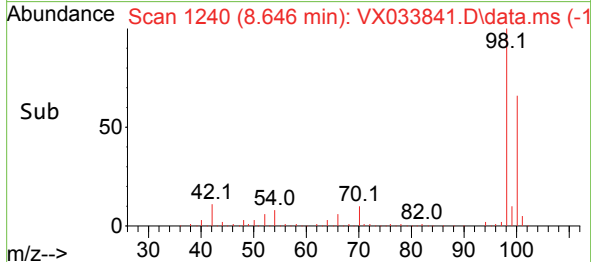
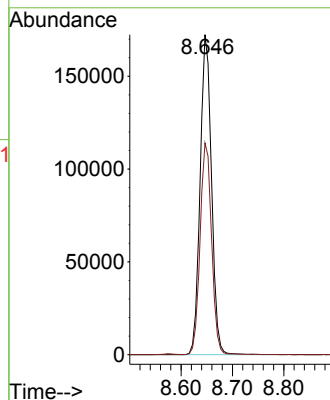
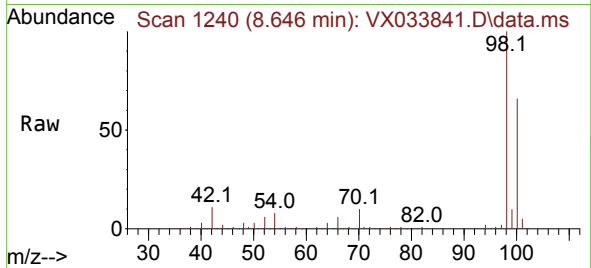




#50
Toluene-d8
Concen: 50.172 ug/l
RT: 8.646 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

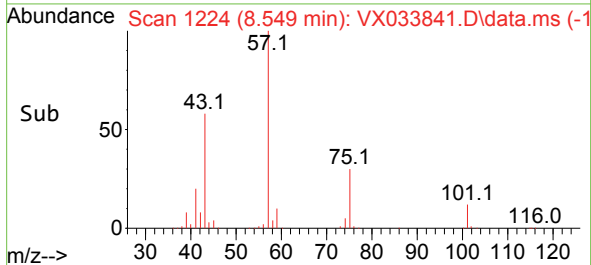
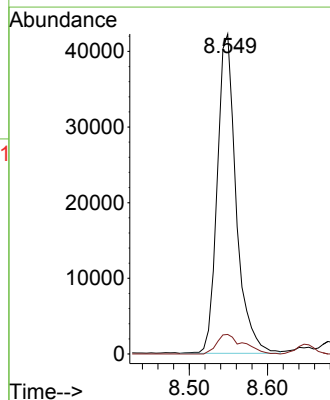
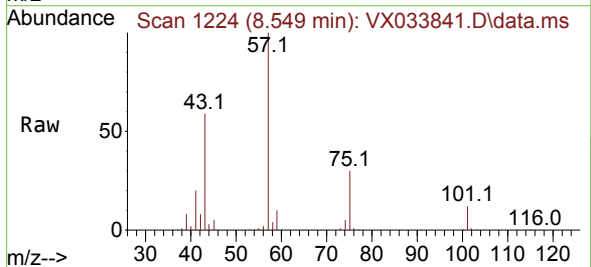
Instrument :
MSVOA_X
ClientSampleId :
PB150369TB

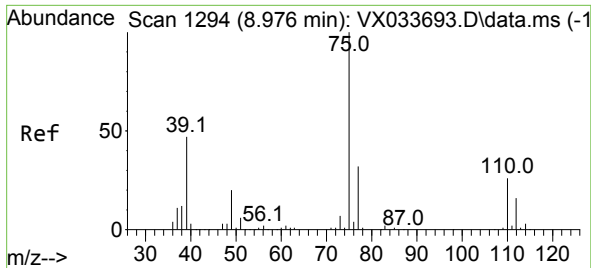
Tgt Ion: 98 Resp: 264576
Ion Ratio Lower Upper
98 100
100 66.9 53.6 80.4



#51
4-Methyl-2-Pentanone
Concen: 34.538 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.025 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

Tgt Ion: 43 Resp: 70732
Ion Ratio Lower Upper
43 100
58 8.6 31.2 46.8#

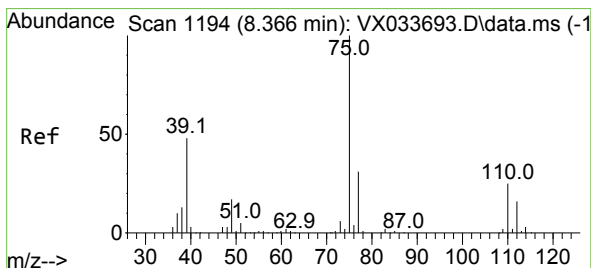
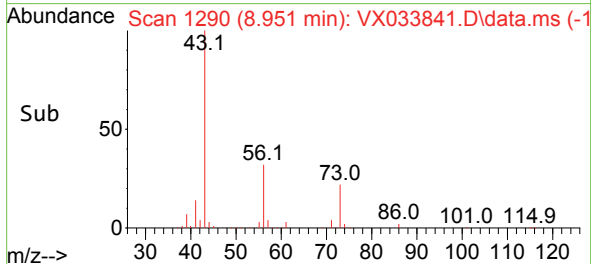
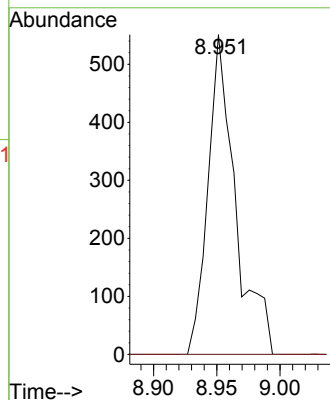
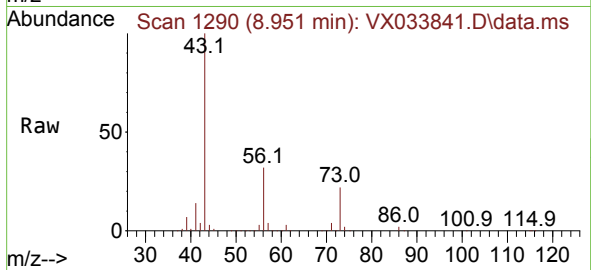




#53
 t-1,3-Dichloropropene
 Concen: 0.401 ug/l
 RT: 8.951 min Scan# 11
 Delta R.T. -0.025 min
 Lab File: VX033841.D
 Acq: 23 Jan 2023 12:05

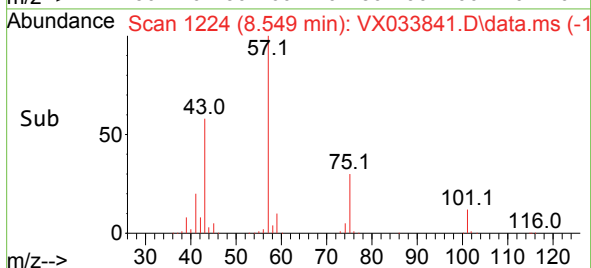
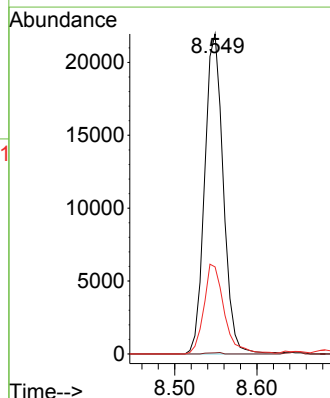
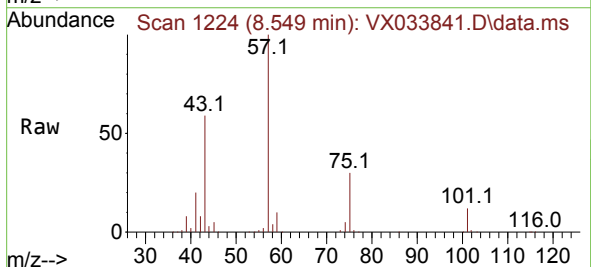
Instrument :
 MSVOA_X
 ClientSampleId :
 PB150369TB

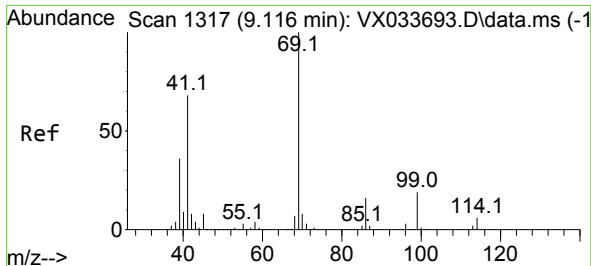
Tgt Ion: 75 Resp: 832
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#



#54
 cis-1,3-Dichloropropene
 Concen: 14.817 ug/l
 RT: 8.549 min Scan# 1224
 Delta R.T. 0.183 min
 Lab File: VX033841.D
 Acq: 23 Jan 2023 12:05

Tgt Ion: 75 Resp: 34471
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.0 37.6#
 39 27.2 38.6 58.0#

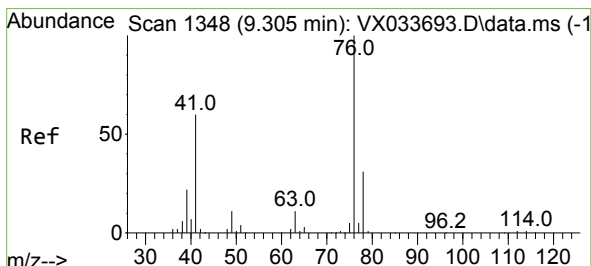
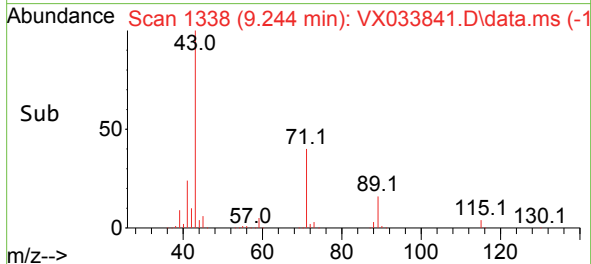
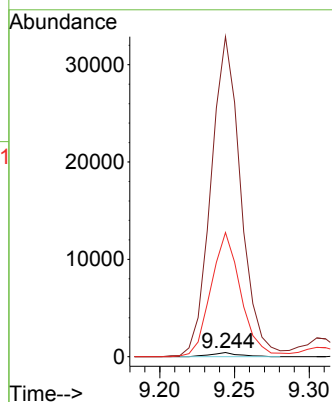
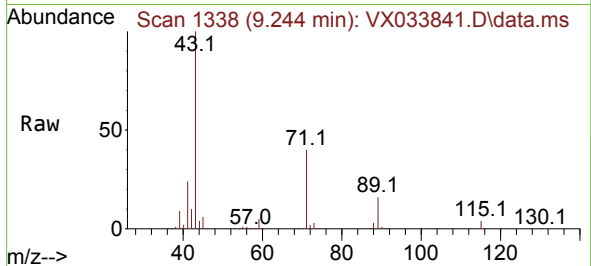




#56
Ethyl methacrylate
Concen: 0.249 ug/l
RT: 9.244 min Scan# 1338
Delta R.T. 0.128 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

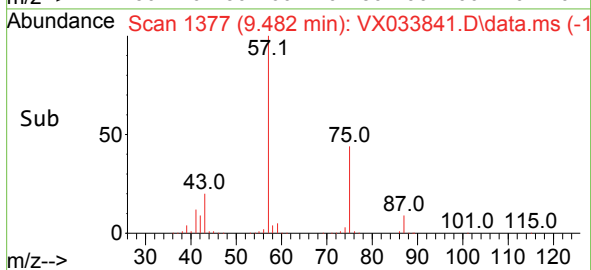
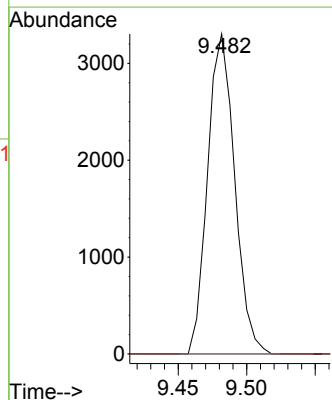
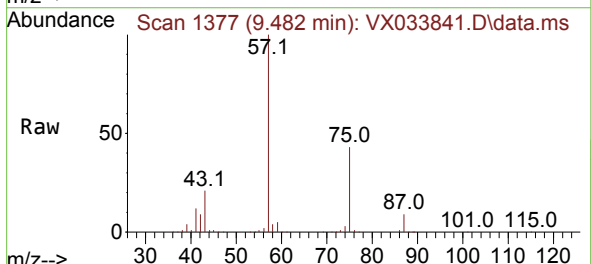
Instrument :
MSVOA_X
ClientSampleId :
PB150369TB

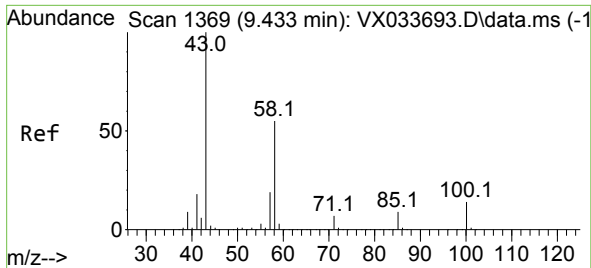
Tgt Ion: 69 Resp: 551
Ion Ratio Lower Upper
69 100
41 8269.0 55.1 82.7#
39 3248.5 28.5 42.7#



#57
1,3-Dichloropropane
Concen: 1.782 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.176 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

Tgt Ion: 76 Resp: 4548
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

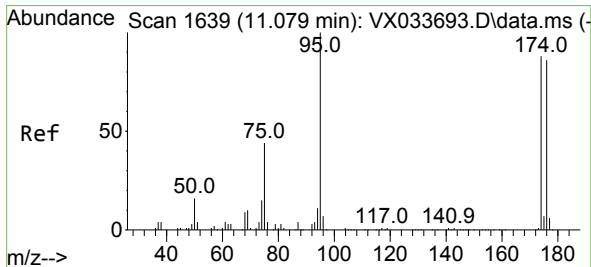
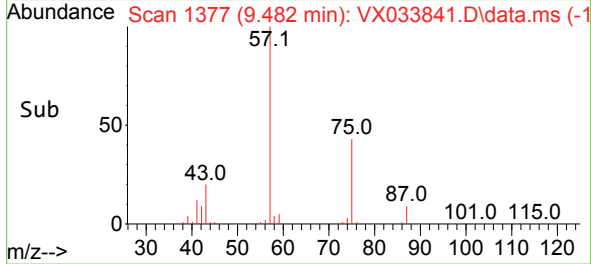
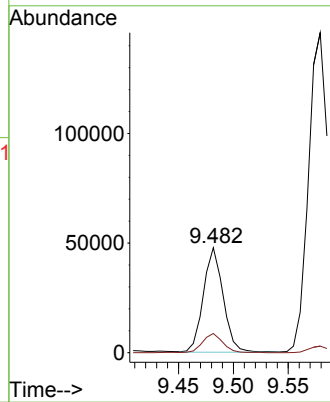
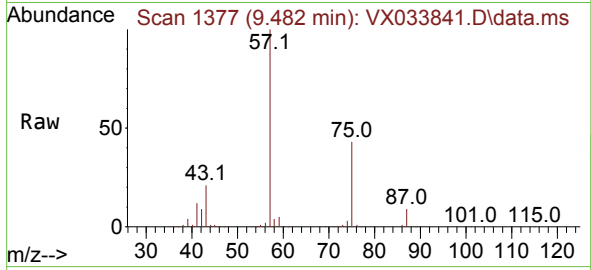




#59
2-Hexanone
Concen: 42.136 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.048 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

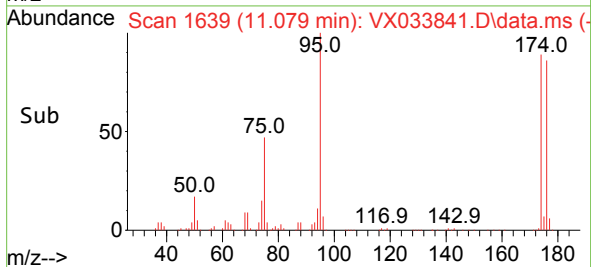
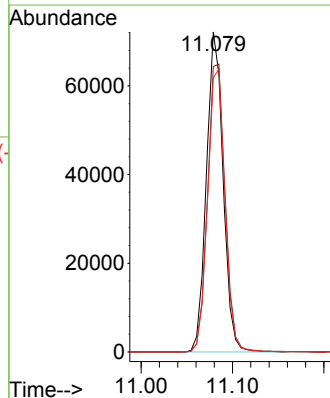
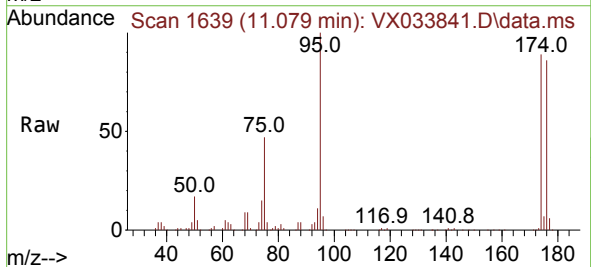
Instrument :
MSVOA_X
ClientSampleId :
PB150369TB

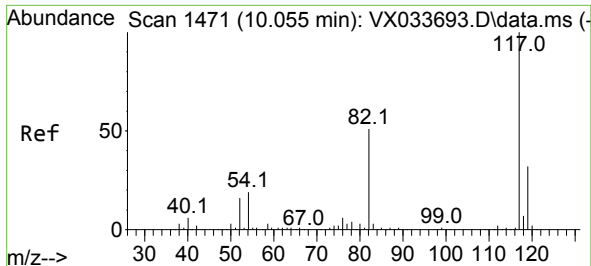
Tgt Ion: 43 Resp: 60061
Ion Ratio Lower Upper
43 100
58 19.0 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: 46.657 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

Tgt Ion: 95 Resp: 91350
Ion Ratio Lower Upper
95 100
174 95.0 0.0 184.4
176 91.7 0.0 178.8

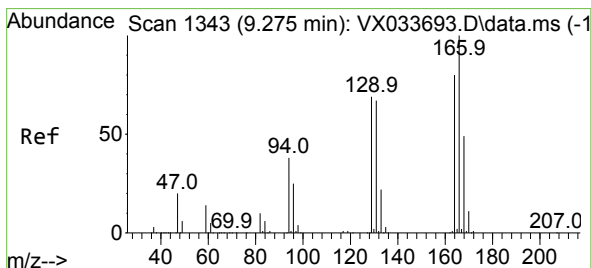
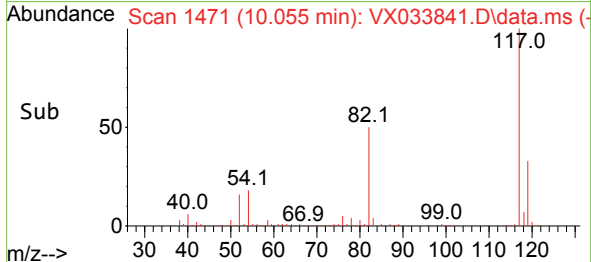
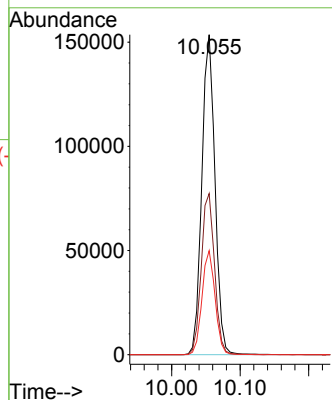
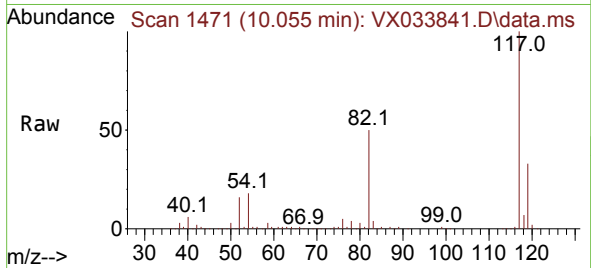




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

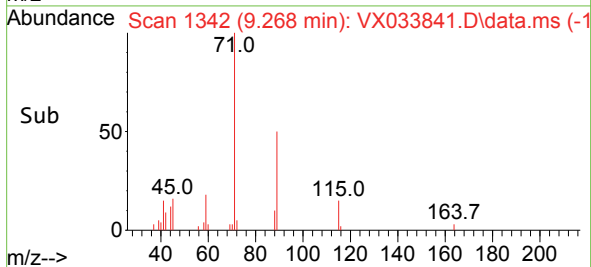
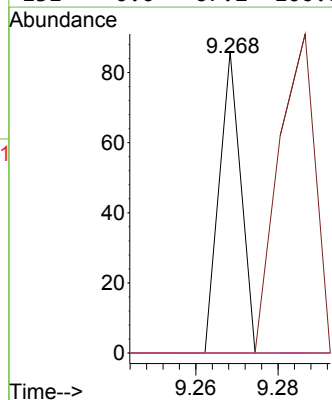
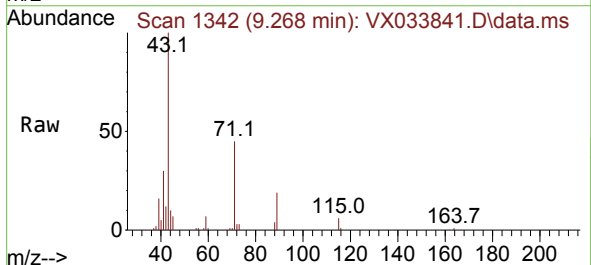
Instrument :
MSVOA_X
ClientSampleId :
PB150369TB

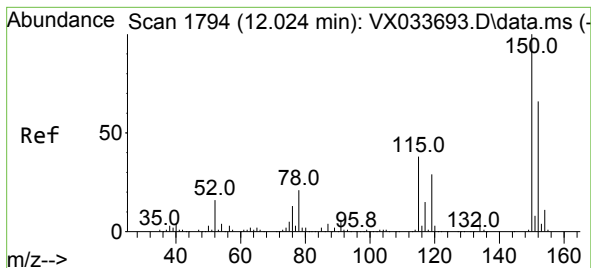
Tgt Ion:117 Resp: 205359
Ion Ratio Lower Upper
117 100
82 50.3 40.6 60.8
119 32.5 25.6 38.4



#64
Tetrachloroethene
Concen: Below Cal
RT: 9.268 min Scan# 1342
Delta R.T. -0.007 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

Tgt Ion:164 Resp: 31
Ion Ratio Lower Upper
164 100
166 0.0 100.2 150.2#
129 0.0 69.2 103.8#
131 0.0 67.2 100.8#

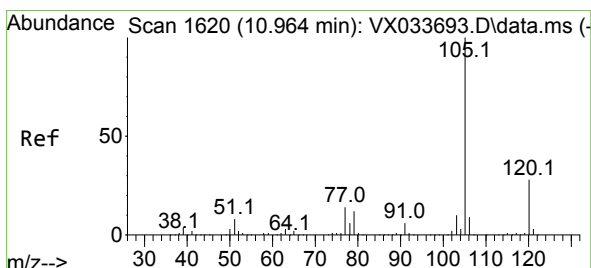
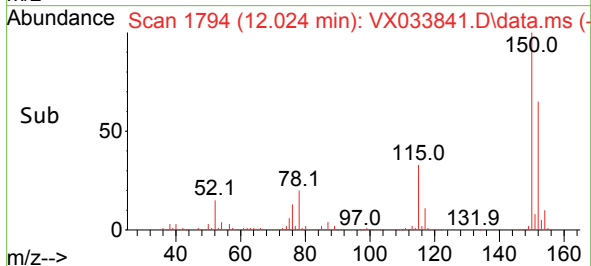
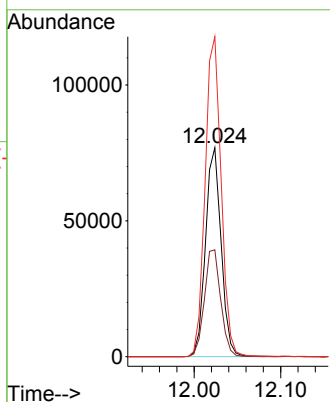
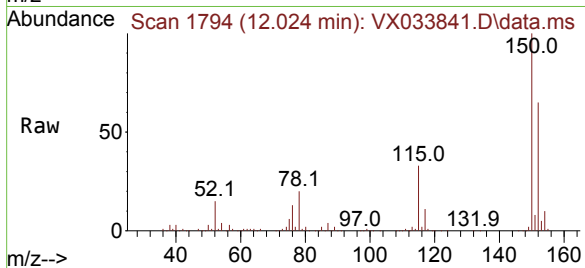




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX033841.D
 Acq: 23 Jan 2023 12:05

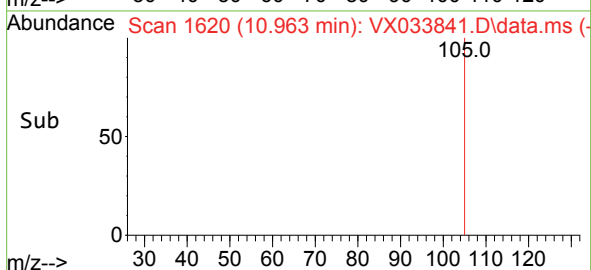
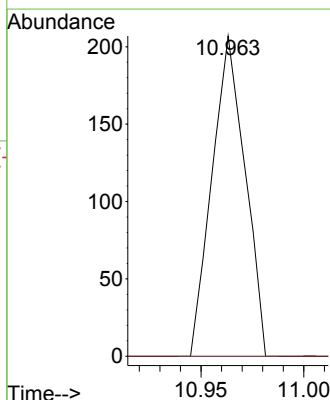
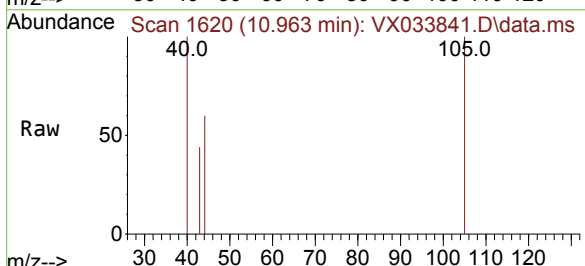
Instrument :
 MSVOA_X
 ClientSampleId :
 PB150369TB

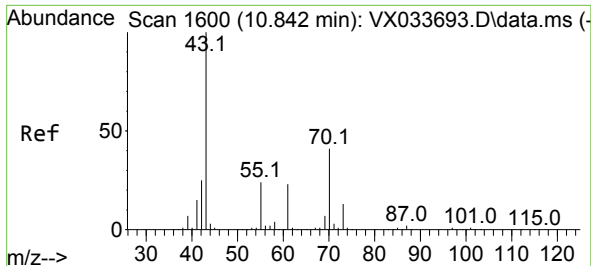
Tgt Ion:152 Resp: 96482
 Ion Ratio Lower Upper
 152 100
 115 53.5 38.7 116.1
 150 156.9 0.0 348.2



#73
 Isopropylbenzene
 Concen: Below Cal
 RT: 10.963 min Scan# 1620
 Delta R.T. -0.001 min
 Lab File: VX033841.D
 Acq: 23 Jan 2023 12:05

Tgt Ion:105 Resp: 232
 Ion Ratio Lower Upper
 105 100
 120 0.0 13.6 40.8#

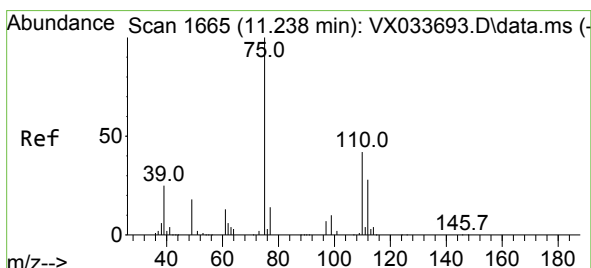
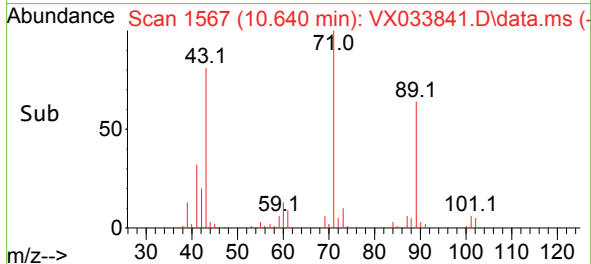
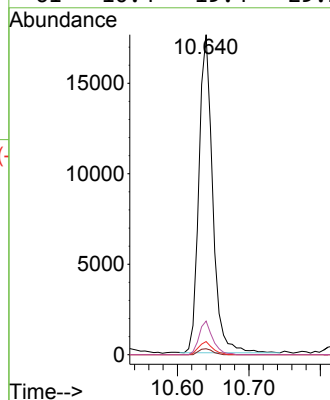
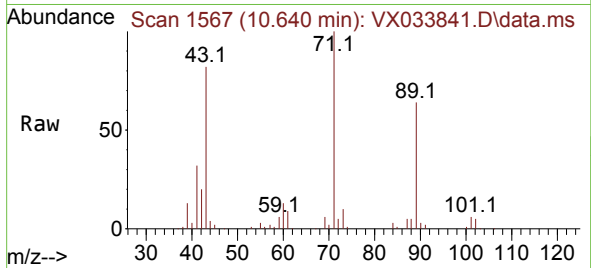




#74
N-amy1 acetate
Concen: 9.264 ug/l
RT: 10.640 min Scan# 1639
Delta R.T. -0.202 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

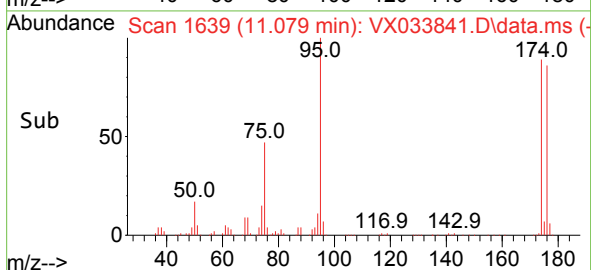
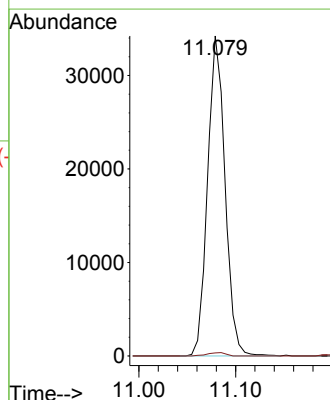
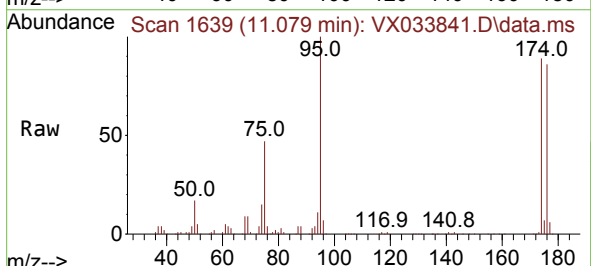
Instrument :
MSVOA_X
ClientSampleId :
PB150369TB

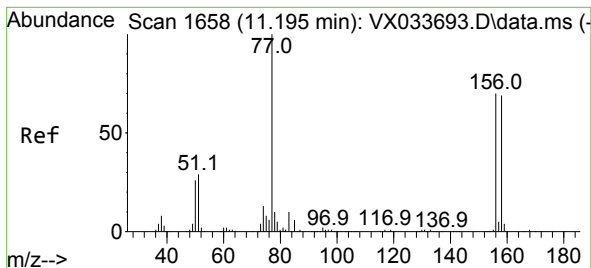
Tgt Ion: 43	Resp: 23472
Ion Ratio	Lower Upper
43	100
70	1.9 34.8 52.2#
55	4.1 19.4 29.0#
61	10.4 19.4 29.2#



#76
1,2,3-Trichloropropane
Concen: 24.262 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

Tgt Ion: 75	Resp: 43010
Ion Ratio	Lower Upper
75	100
77	1.1 21.8 65.4#





#77

Bromobenzene

Concen: Below Cal

RT: 11.207 min Scan# 1

Delta R.T. 0.012 min

Lab File: VX033841.D

Acq: 23 Jan 2023 12:05

Instrument :

MSVOA_X

ClientSampleId :

PB150369TB

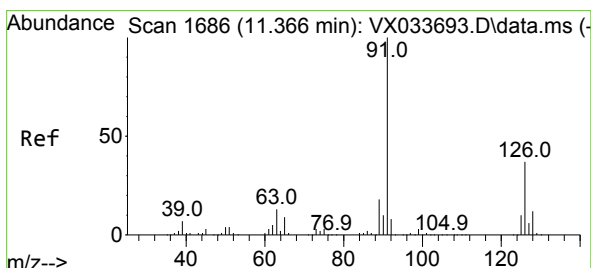
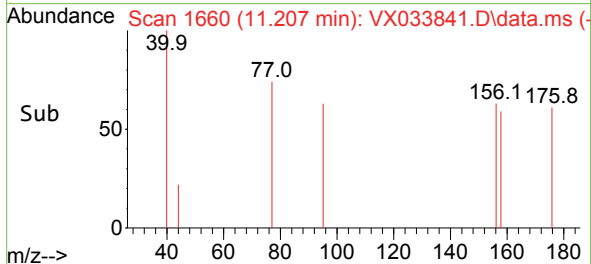
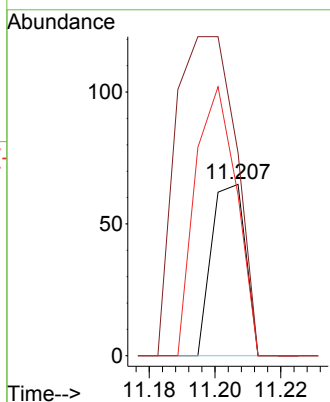
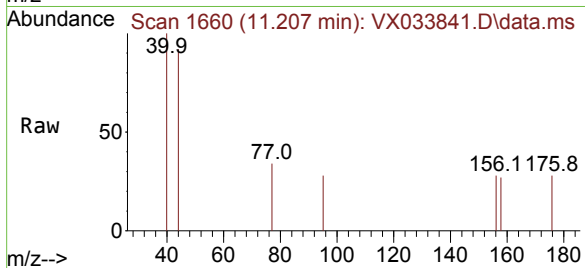
Tgt Ion:156 Resp: 46

Ion Ratio Lower Upper

156 100

77 334.8 68.1 204.3#

158 193.5 48.0 144.2#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.366 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VX033841.D

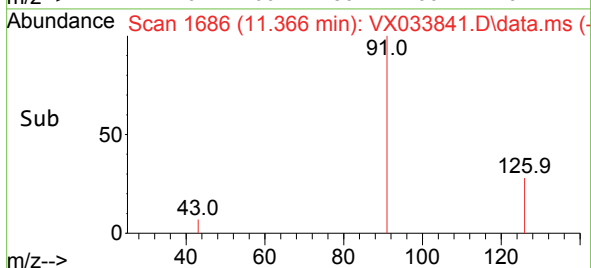
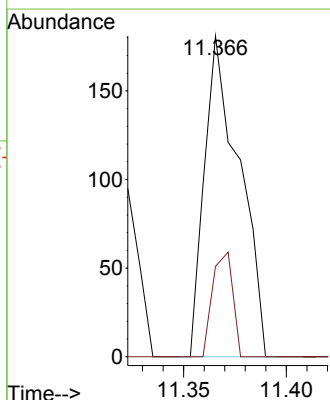
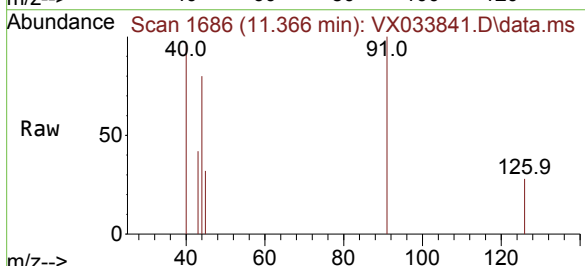
Acq: 23 Jan 2023 12:05

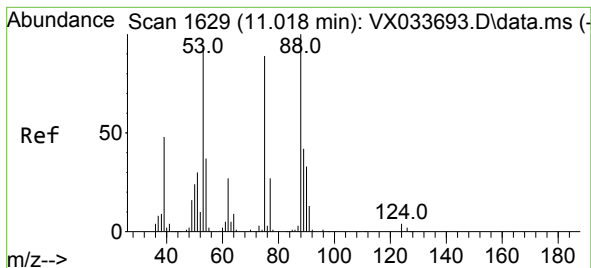
Tgt Ion: 91 Resp: 213

Ion Ratio Lower Upper

91 100

126 18.8 18.1 54.1

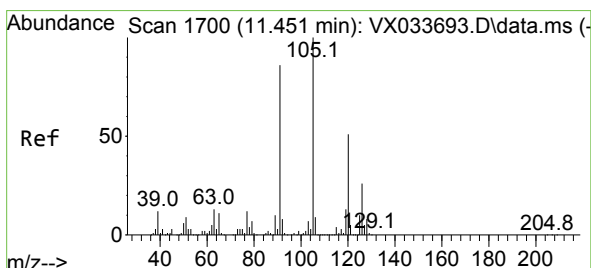
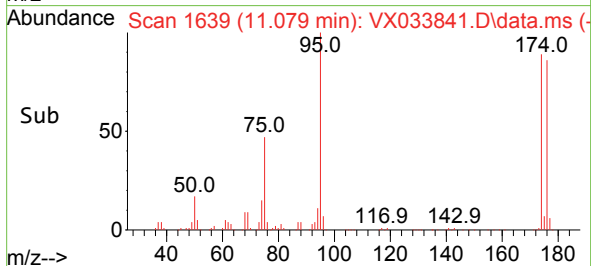
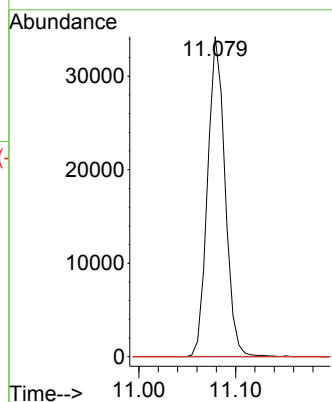
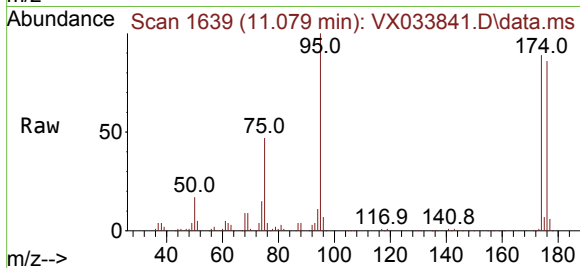




#81
trans-1,4-Dichloro-2-butene
Concen: 75.404 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

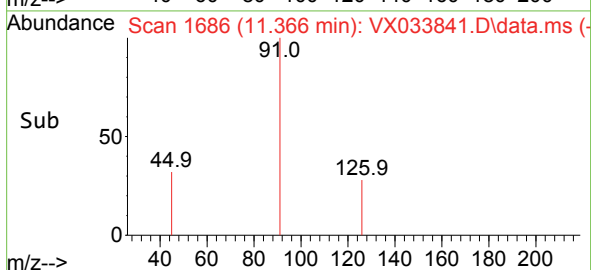
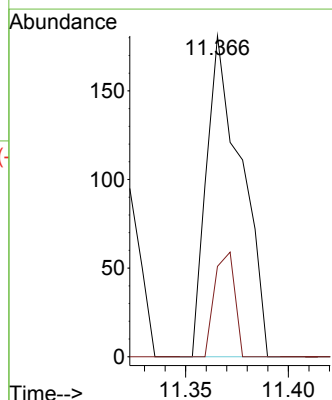
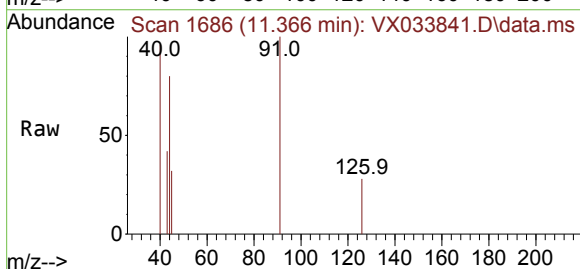
Instrument :
MSVOA_X
ClientSampleId :
PB150369TB

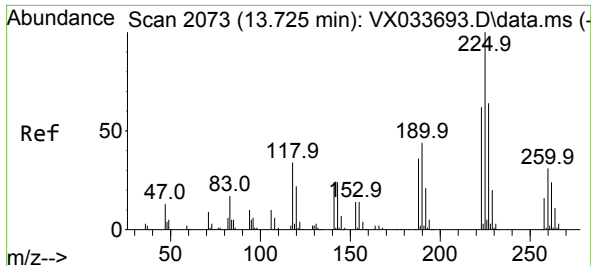
Tgt Ion: 75 Resp: 43010
Ion Ratio Lower Upper
75 100
53 0.0 83.0 124.6#
89 0.0 37.7 56.5#



#82
4-Chlorotoluene
Concen: Below Cal
RT: 11.366 min Scan# 1686
Delta R.T. -0.085 min
Lab File: VX033841.D
Acq: 23 Jan 2023 12:05

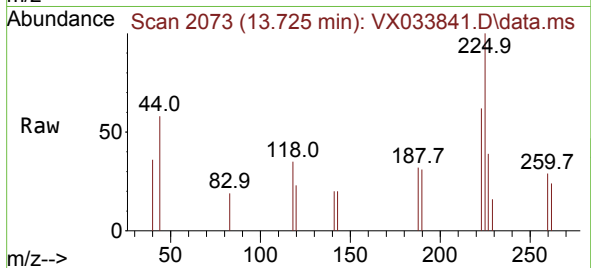
Tgt Ion: 91 Resp: 213
Ion Ratio Lower Upper
91 100
126 18.8 15.8 47.4





#94
 Hexachlorobutadiene
 Concen: 0.360 ug/l
 RT: 13.725 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VX033841.D
 Acq: 23 Jan 2023 12:05

Instrument :
 MSVOA_X
 ClientSampleId :
 PB150369TB



Tgt Ion:225 Resp: 374
 Ion Ratio Lower Upper
 225 100
 223 62.0 31.3 93.9
 227 50.3 32.3 96.9

