

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022324\
 Data File : VX040433.D
 Acq On : 23 Feb 2024 15:46
 Operator : JC/MD
 Sample : PB159217ZHE#03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

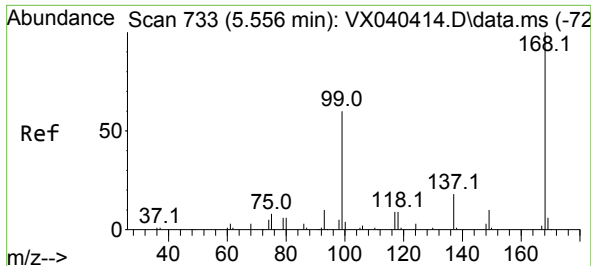
Instrument :
 MSVOA_X
 ClientSampleId :
 PB159217ZHE#03

Quant Time: Feb 23 22:20:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022224W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 23 06:47:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	69845	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	127274	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	126340	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	61244	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	58107	51.084	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.160%			
35) Dibromofluoromethane	5.385	113	42913	50.034	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.060%			
50) Toluene-d8	8.647	98	162904	52.584	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 105.160%			
62) 4-Bromofluorobenzene	11.079	95	62215	50.116	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	259	0.308	ug/l #	41
6) Chloroethane	1.666	64	319	0.558	ug/l #	43
11) Tert butyl alcohol	2.959	59	258	1.173	ug/l #	78
13) Acrolein	2.233	56	194	0.737	ug/l #	53
16) Acetone	2.380	43	21140	44.603	ug/l	100
18) Methyl Acetate	2.703	43	984	0.802	ug/l #	88
20) Methylene Chloride	2.788	84	5762	5.806	ug/l	98
25) 2-Butanone	4.574	43	1528	2.068	ug/l	92
29) Tetrahydrofuran	5.025	42	1852	3.765	ug/l #	93
31) Cyclohexane	5.550	56	1778	1.304	ug/l #	38
36) 1,1-Dichloropropene	5.556	75	6544	4.930	ug/l #	47
37) Ethyl Acetate	4.727	43	2340	1.543	ug/l #	71
38) Carbon Tetrachloride	5.556	117	7977	6.496	ug/l #	16
41) Methacrylonitrile	5.019	41	1112	1.381	ug/l #	35
43) Isopropyl Acetate	6.342	43	77402	33.264	ug/l	99
48) Methyl methacrylate	7.799	41	67984	58.995	ug/l #	50
49) 1,4-Dioxane	7.793	88	38	1.636	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	60870	38.516	ug/l #	51
54) cis-1,3-Dichloropropene	8.549	75	24197	16.744	ug/l #	66
57) 1,3-Dichloropropane	9.482	76	3232	1.958	ug/l #	42
59) 2-Hexanone	9.372	43	73579	60.367	ug/l #	26
74) N-amyl acetate	10.817	43	935	0.465	ug/l #	44
76) 1,2,3-Trichloropropane	11.079	75	35664	26.188	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	35664	91.124	ug/l #	5

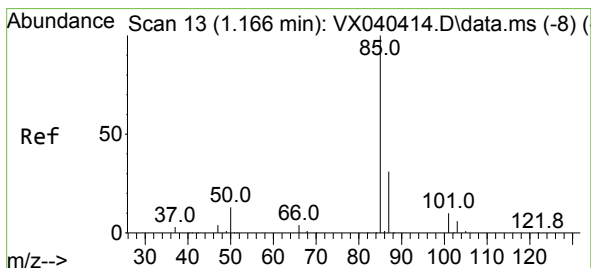
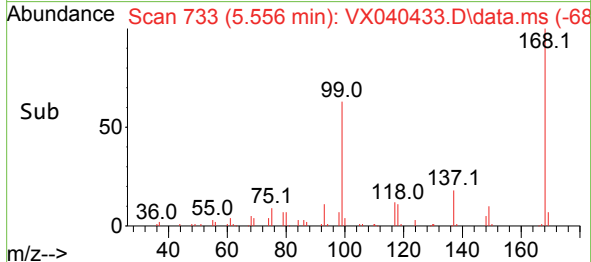
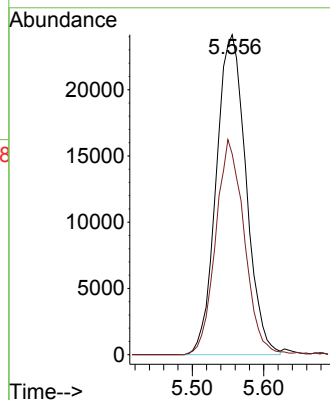
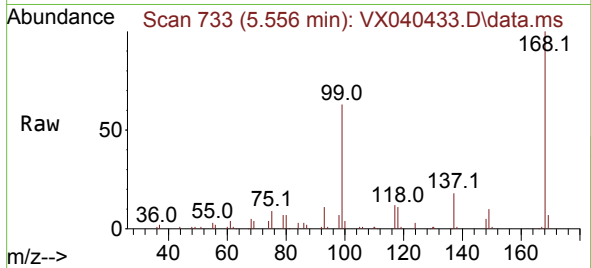
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

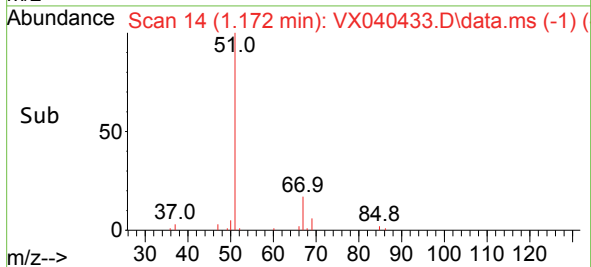
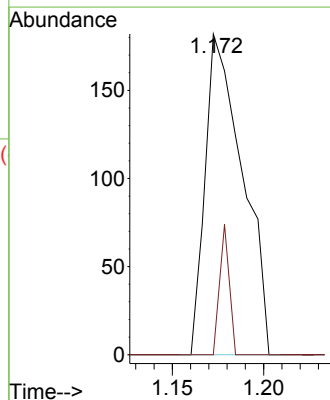
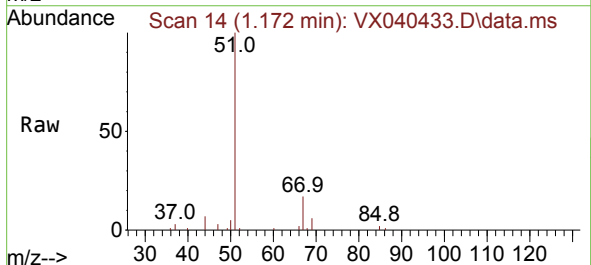
Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

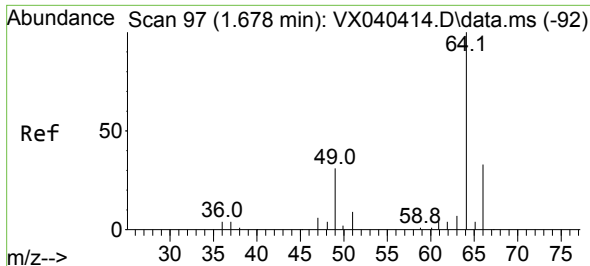
Tgt Ion:168 Resp: 69845
Ion Ratio Lower Upper
168 100
99 62.7 56.6 85.0



#2
Dichlorodifluoromethane
Concen: 0.308 ug/l
RT: 1.172 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Tgt Ion: 85 Resp: 259
Ion Ratio Lower Upper
85 100
87 0.0 16.7 50.1#

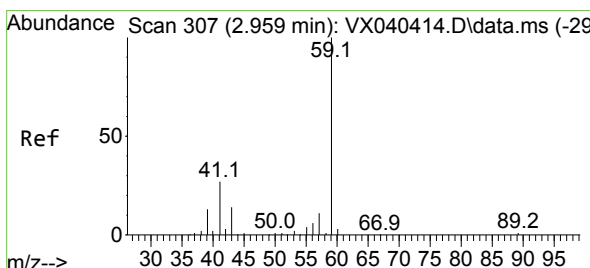
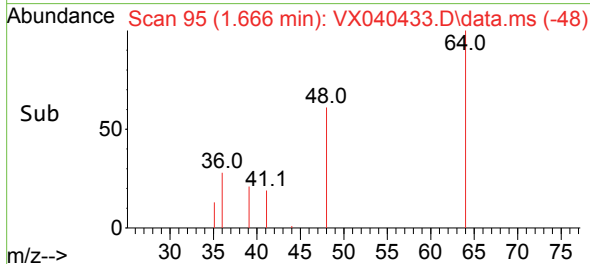
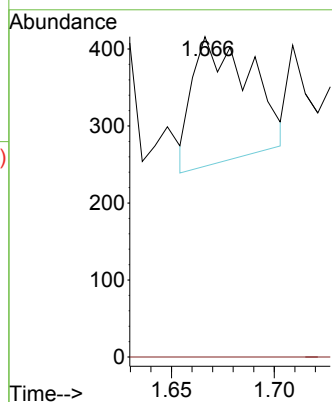
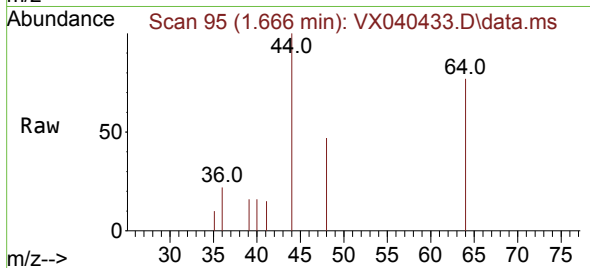




#6
Chloroethane
Concen: 0.558 ug/l
RT: 1.666 min Scan# 91
Delta R.T. -0.012 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

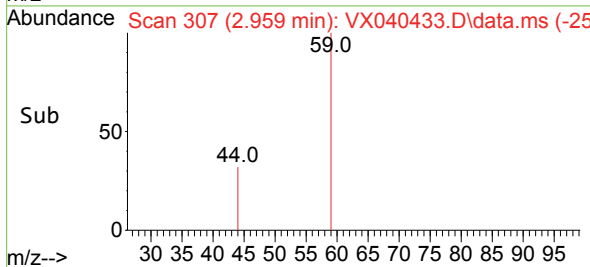
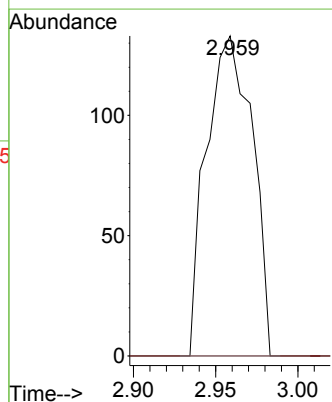
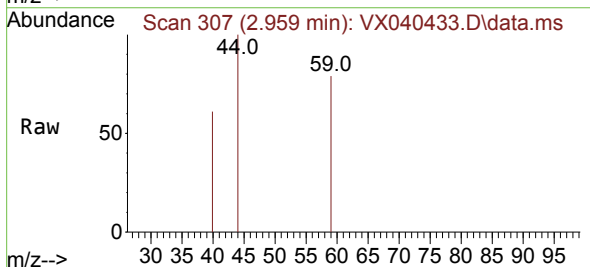
Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

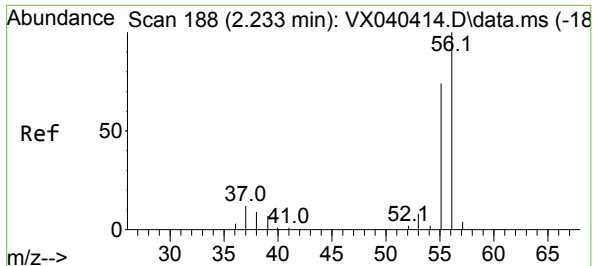
Tgt Ion: 64 Resp: 319
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#



#11
Tert butyl alcohol
Concen: 1.173 ug/l
RT: 2.959 min Scan# 307
Delta R.T. 0.000 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Tgt Ion: 59 Resp: 258
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#





#13

Acrolein

Concen: 0.737 ug/l

RT: 2.233 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX040433.D

Acq: 23 Feb 2024 15:46

Instrument :

MSVOA_X

ClientSampleId :

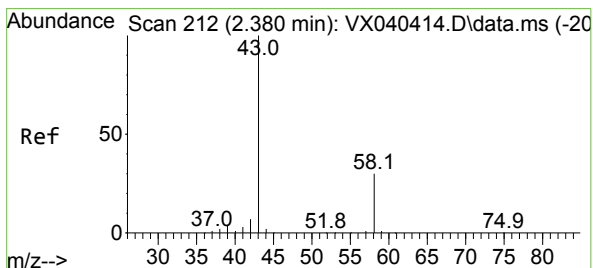
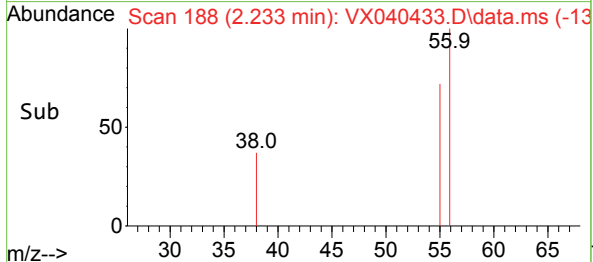
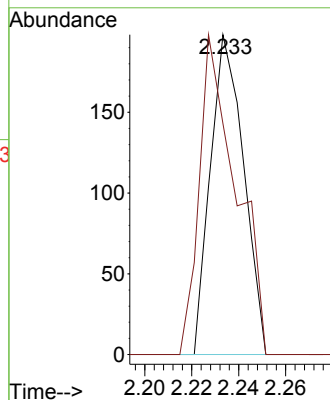
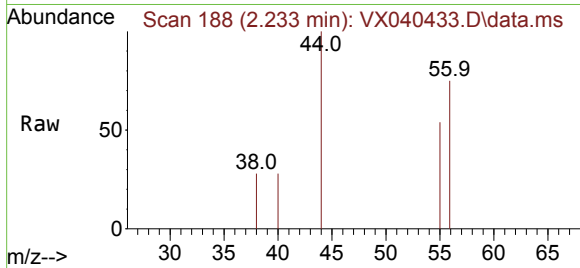
PB159217ZHE#03

Tgt Ion: 56 Resp: 194

Ion Ratio Lower Upper

56 100

55 110.3 57.1 85.7#



#16

Acetone

Concen: 44.603 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX040433.D

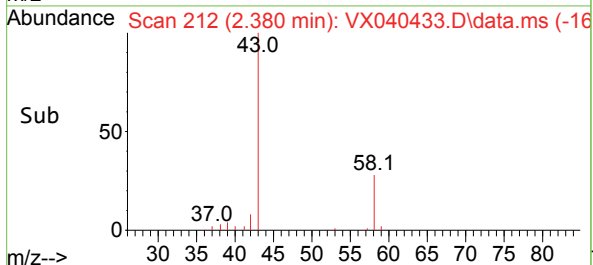
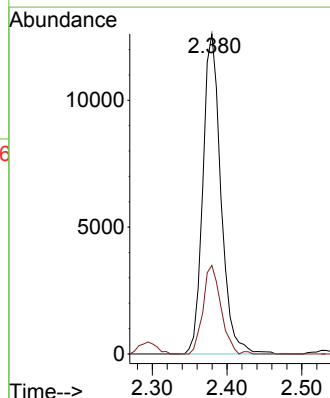
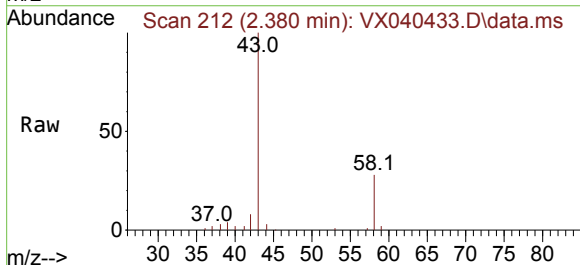
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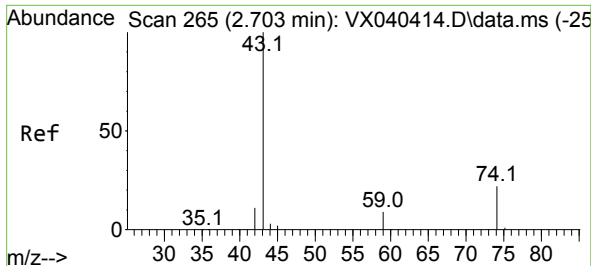
Tgt Ion: 43 Resp: 21140

Ion Ratio Lower Upper

43 100

58 27.6 21.9 32.9

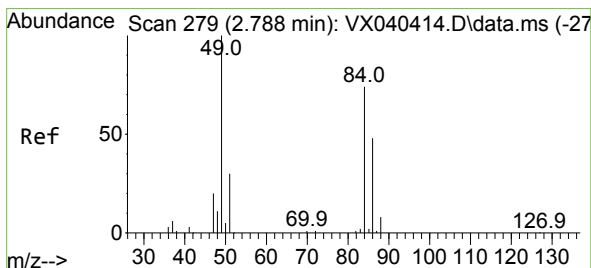
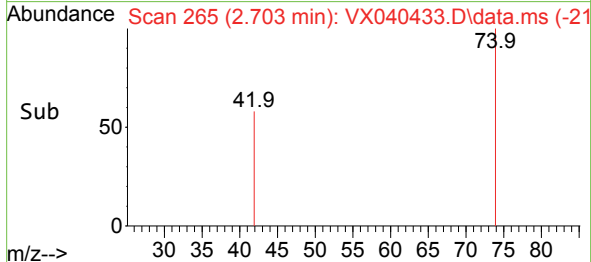
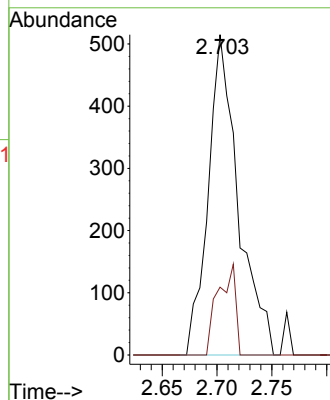
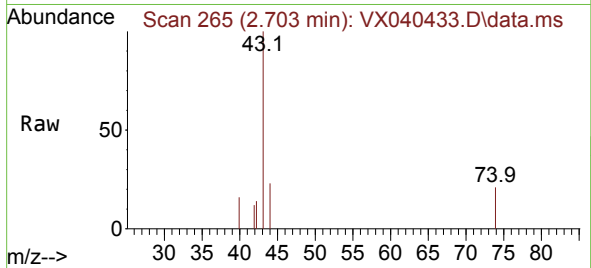




#18
Methyl Acetate
Concen: 0.802 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

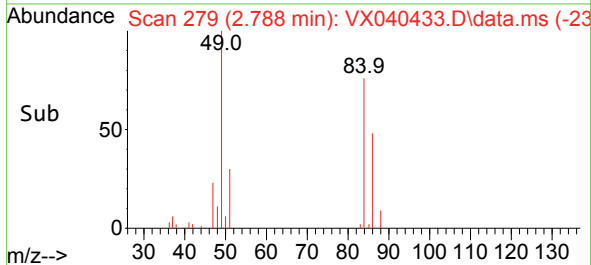
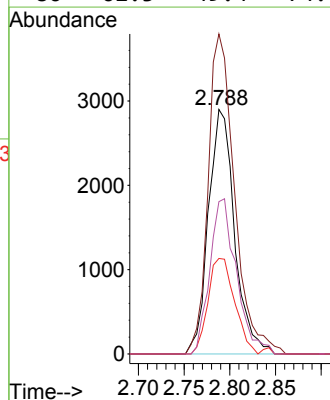
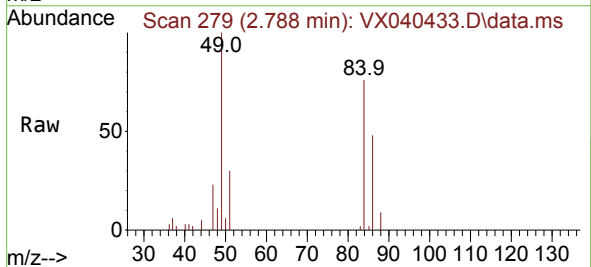
Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

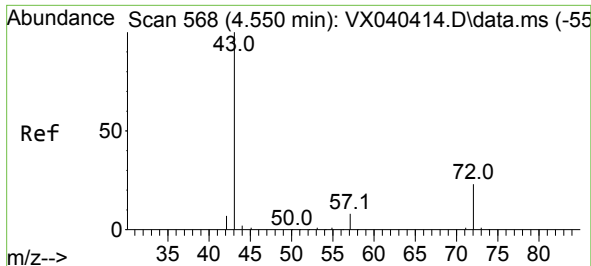
Tgt Ion: 43 Resp: 984
Ion Ratio Lower Upper
43 100
74 16.6 17.8 26.8#



#20
Methylene Chloride
Concen: 5.806 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Tgt Ion: 84 Resp: 5762
Ion Ratio Lower Upper
84 100
49 130.9 103.6 155.4
51 39.1 33.8 50.6
86 62.3 49.4 74.0

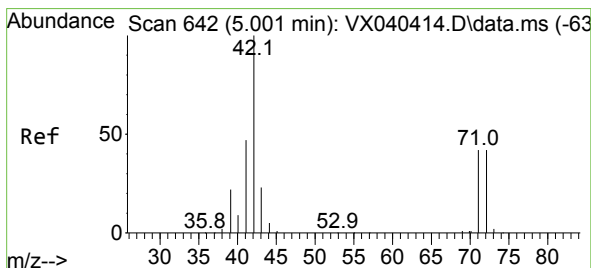
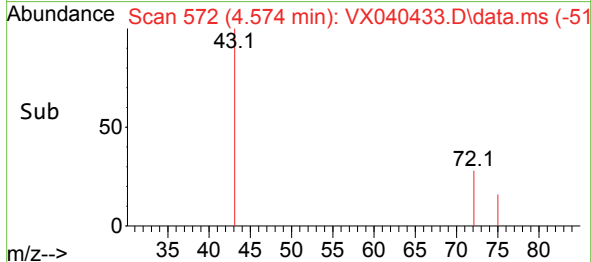
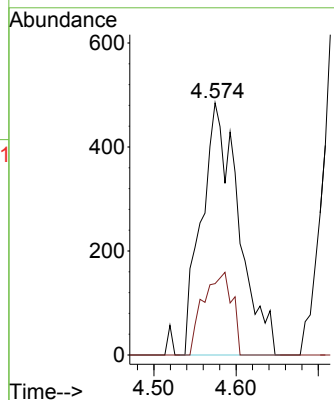
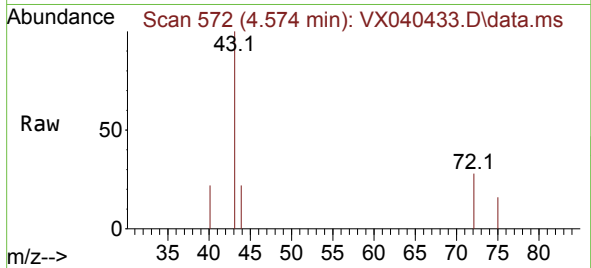




#25
2-Butanone
Concen: 2.068 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

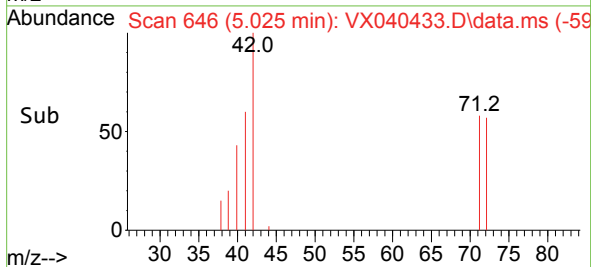
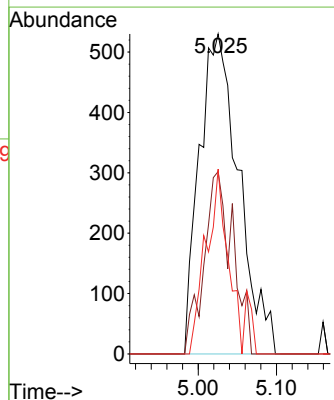
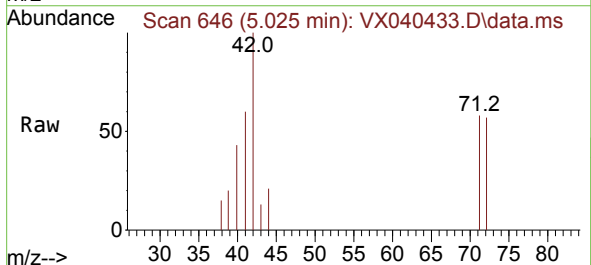
Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

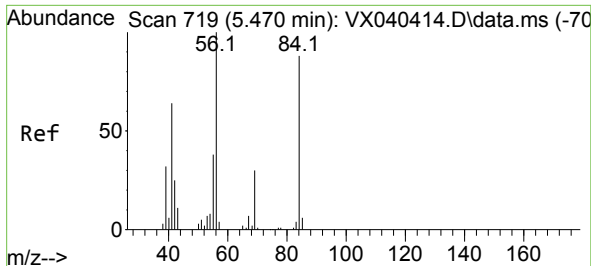
Tgt Ion: 43 Resp: 1528
Ion Ratio Lower Upper
43 100
72 28.2 19.4 29.2



#29
Tetrahydrofuran
Concen: 3.765 ug/l
RT: 5.025 min Scan# 646
Delta R.T. 0.024 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

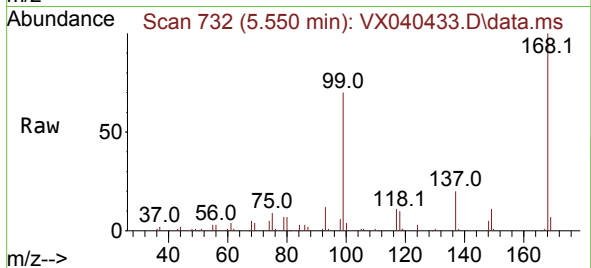
Tgt Ion: 42 Resp: 1852
Ion Ratio Lower Upper
42 100
72 41.6 34.2 51.4
71 32.0 32.2 48.2#



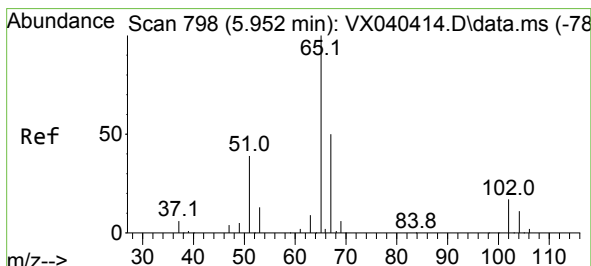
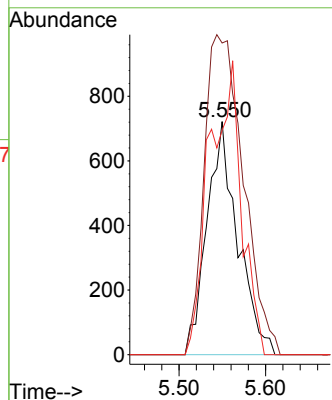
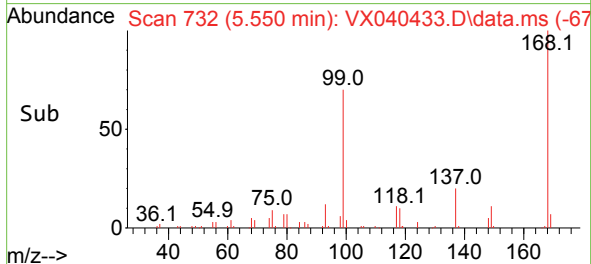


#31
Cyclohexane
Concen: 1.304 ug/l
RT: 5.550 min Scan# 719
Delta R.T. 0.079 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

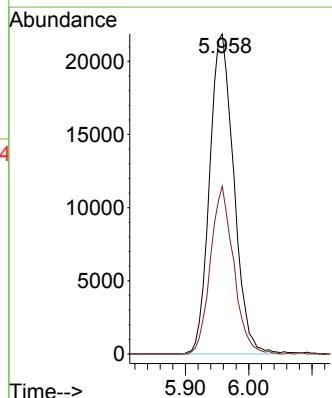
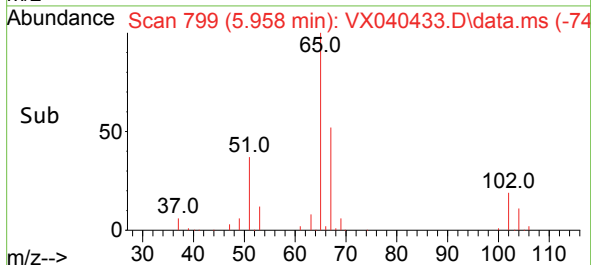
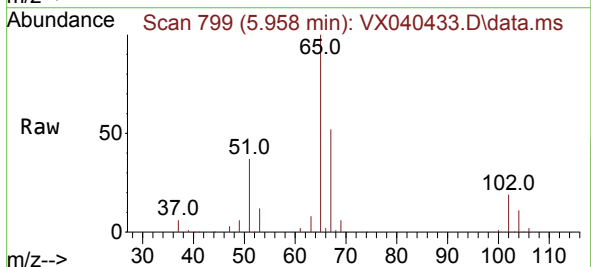


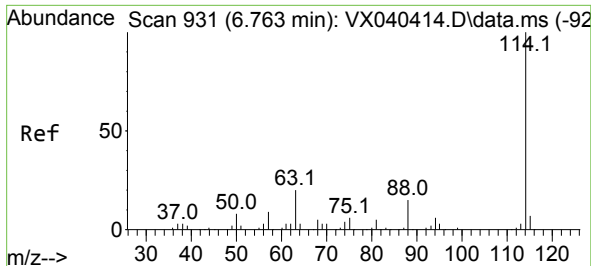
Tgt Ion: 56 Resp: 1778
Ion Ratio Lower Upper
56 100
69 133.7 23.4 35.2#
84 96.3 65.9 98.9



#33
1,2-Dichloroethane-d4
Concen: 51.084 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Tgt Ion: 65 Resp: 58107
Ion Ratio Lower Upper
65 100
67 50.2 0.0 100.2

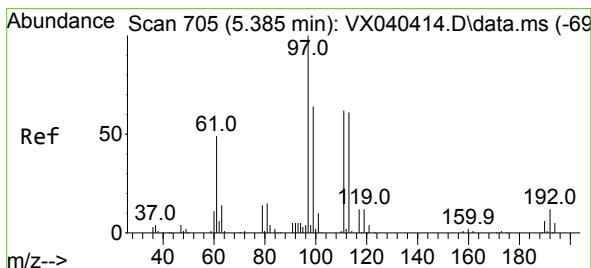
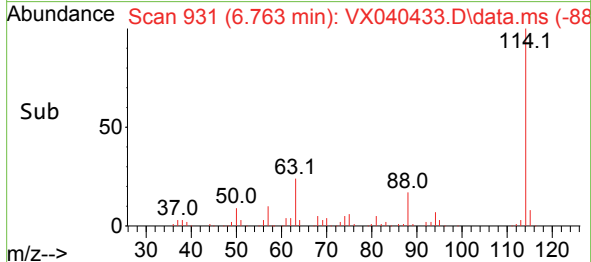
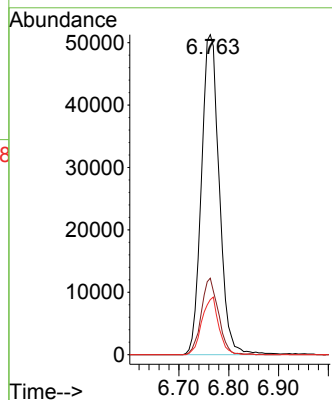
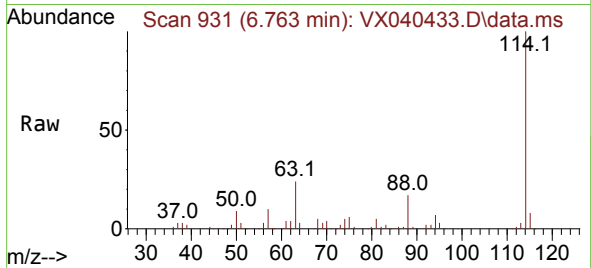




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

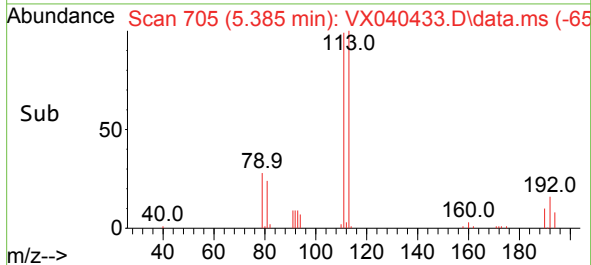
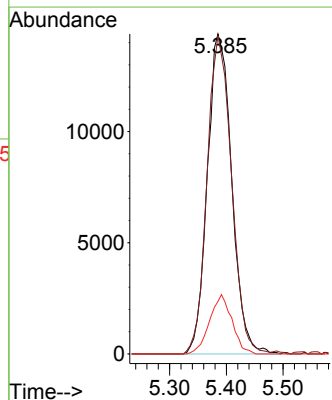
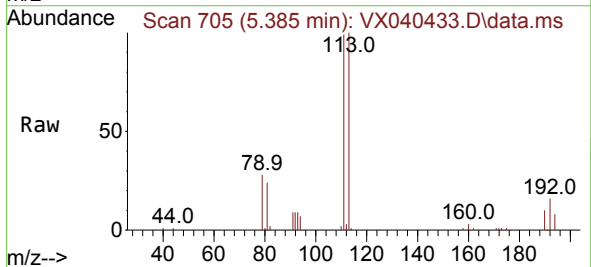
Instrument :
MSVOA_X
ClientSampleId :
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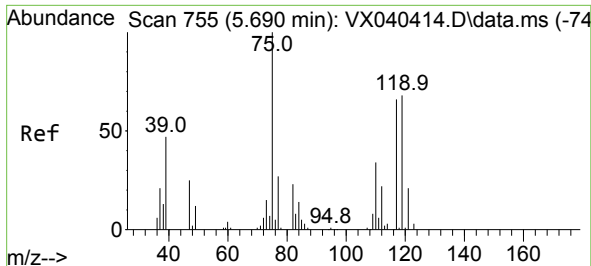
Tgt Ion:114 Resp: 127274
Ion Ratio Lower Upper
114 100
63 23.9 0.0 45.0
88 17.2 0.0 36.6



#35
Dibromofluoromethane
Concen: 50.034 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Tgt Ion:113 Resp: 42913
Ion Ratio Lower Upper
113 100
111 99.6 82.9 124.3
192 17.1 13.3 19.9

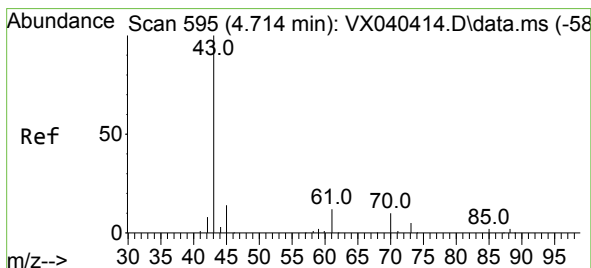
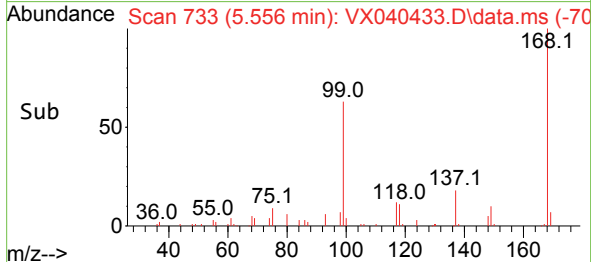
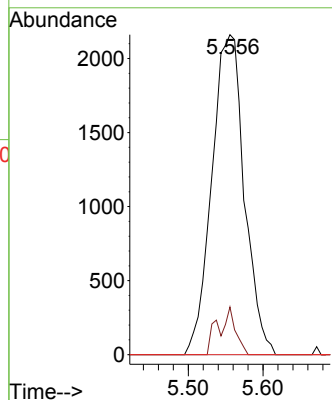
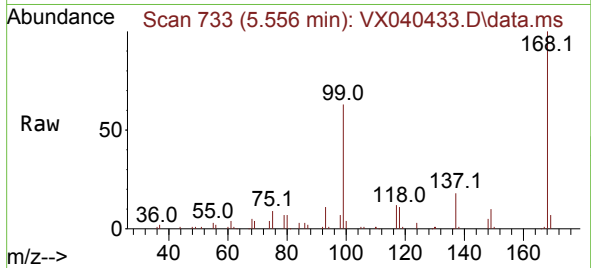




#36
1,1-Dichloropropene
Concen: 4.930 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

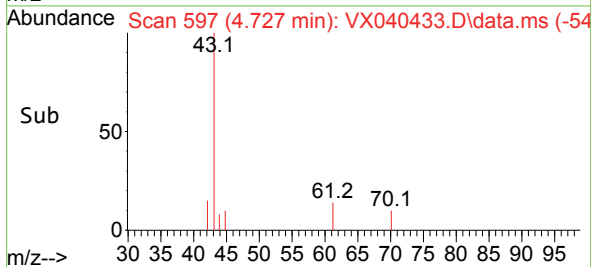
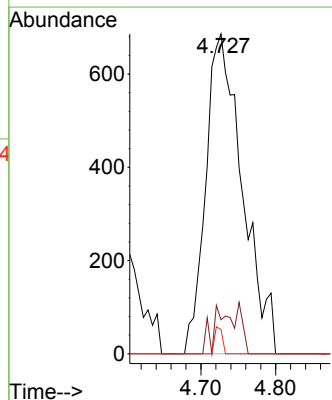
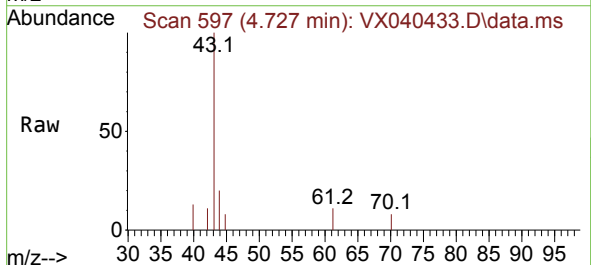
Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

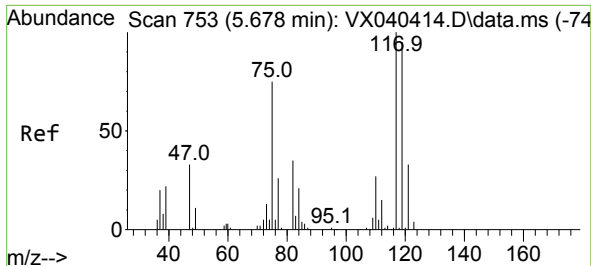
Tgt Ion: 75 Resp: 6544
Ion Ratio Lower Upper
75 100
110 4.8 17.0 50.9#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 1.543 ug/l
RT: 4.727 min Scan# 597
Delta R.T. 0.012 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

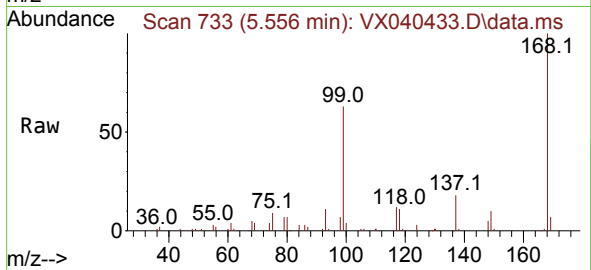
Tgt Ion: 43 Resp: 2340
Ion Ratio Lower Upper
43 100
61 0.0 10.6 16.0#
70 1.7 8.3 12.5#



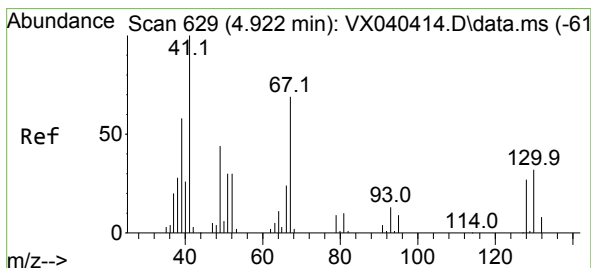
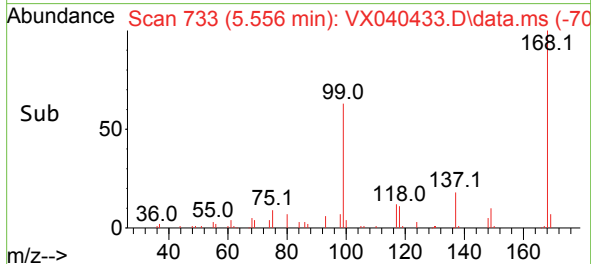
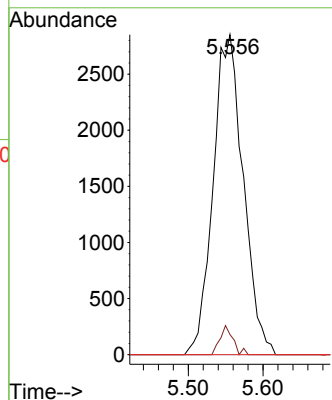


#38
Carbon Tetrachloride
Concen: 6.496 ug/l
RT: 5.556 min Scan# 711
Delta R.T. -0.122 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

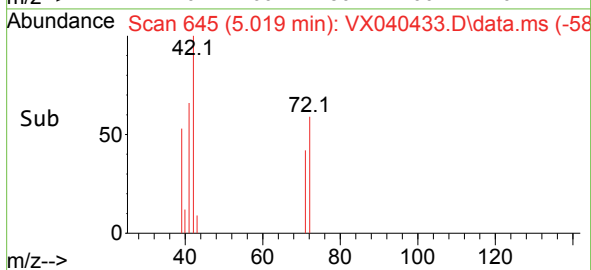
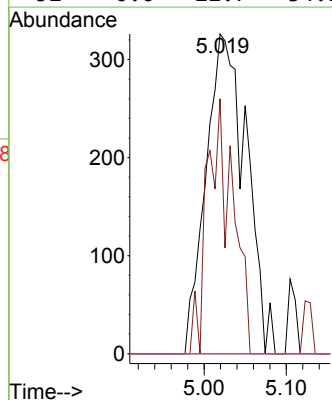
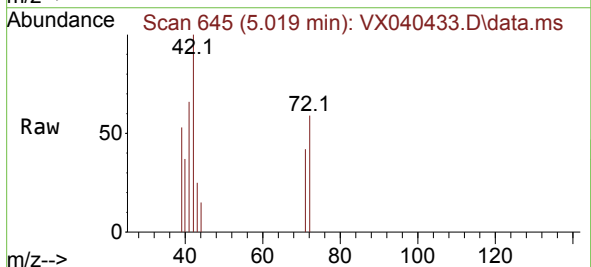


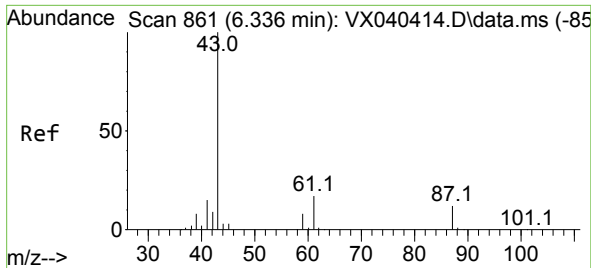
Tgt Ion:117 Resp: 7977
Ion Ratio Lower Upper
117 100
119 6.3 78.2 117.2#
121 0.0 24.4 36.6#



#41
Methacrylonitrile
Concen: 1.381 ug/l
RT: 5.019 min Scan# 645
Delta R.T. 0.098 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Tgt Ion: 41 Resp: 1112
Ion Ratio Lower Upper
41 100
39 20.7 45.2 67.8#
67 0.0 52.6 78.8#
52 0.0 22.7 34.1#

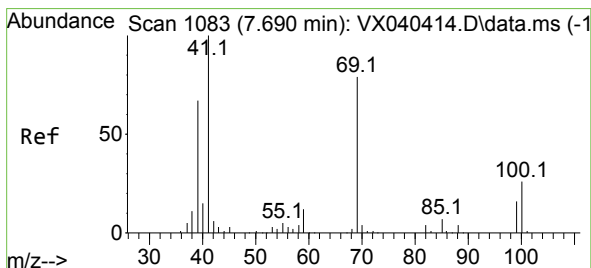
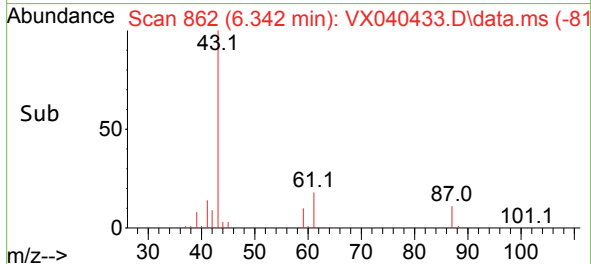
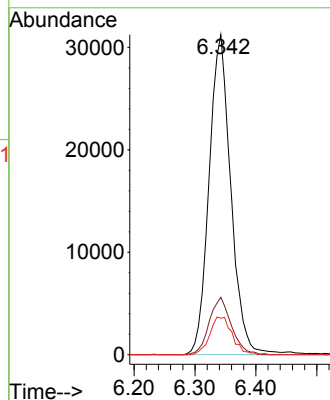
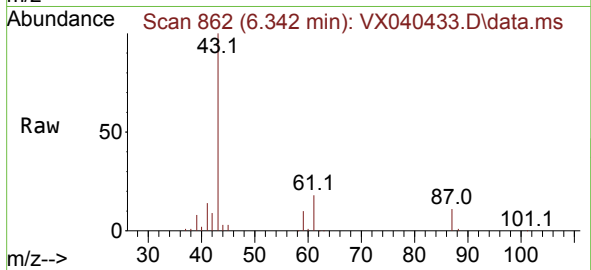




#43
Isopropyl Acetate
Concen: 33.264 ug/l
RT: 6.342 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

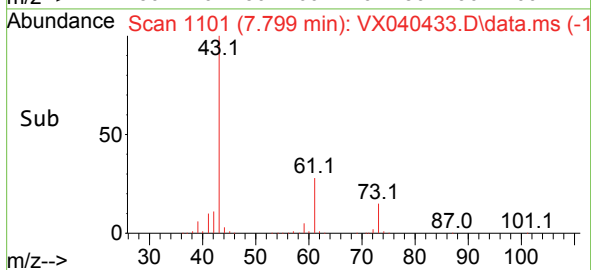
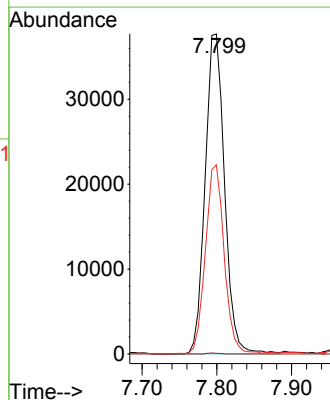
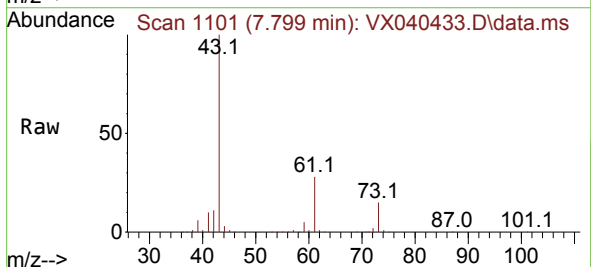
Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

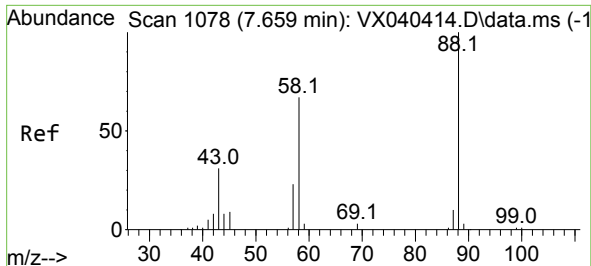
Tgt Ion: 43 Resp: 77402
Ion Ratio Lower Upper
43 100
61 18.1 15.2 22.8
87 12.1 9.8 14.6



#48
Methyl methacrylate
Concen: 58.995 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.110 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Tgt Ion: 41 Resp: 67984
Ion Ratio Lower Upper
41 100
69 0.2 59.2 88.8#
39 57.3 47.7 71.5

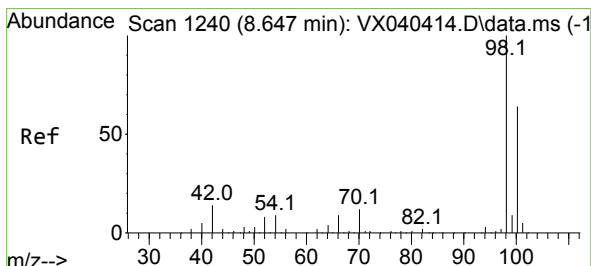
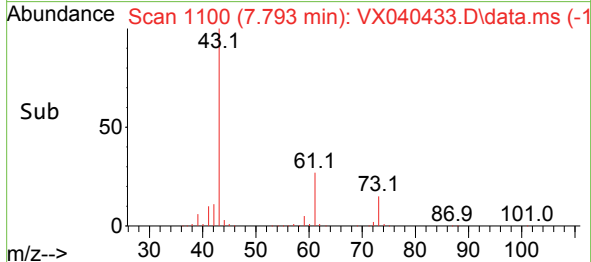
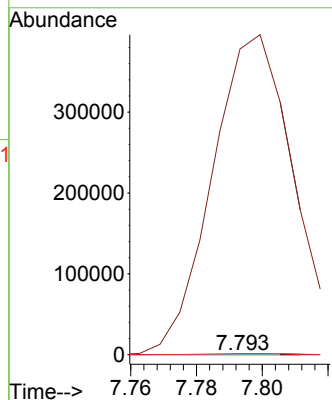
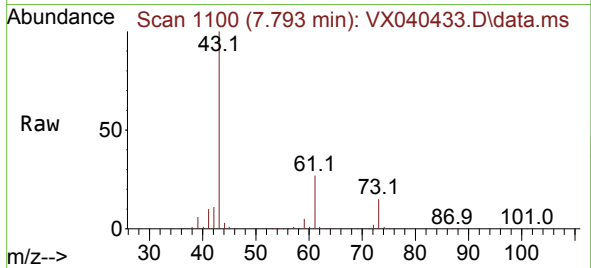




#49
1,4-Dioxane
Concen: 1.636 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.134 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

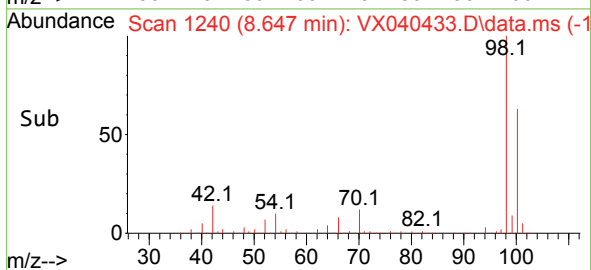
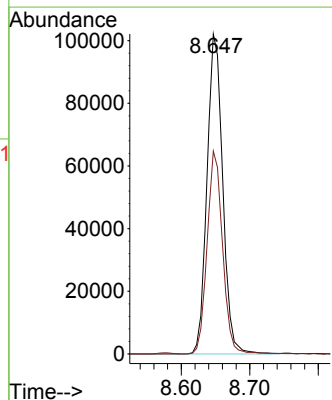
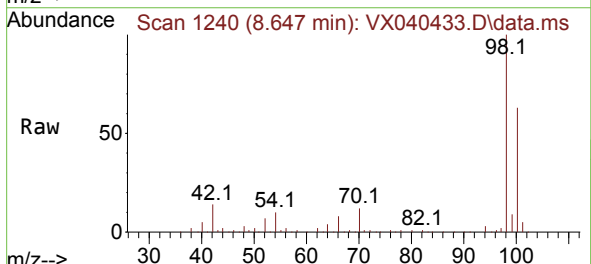
Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

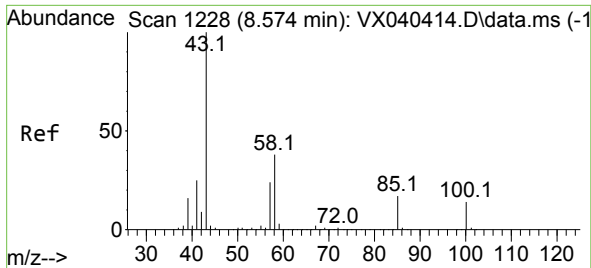
Tgt Ion: 88 Resp: 38
Ion Ratio Lower Upper
88 100
43 1836589.5 0.0 0.0#
58 6878.9 60.1 90.1#



#50
Toluene-d8
Concen: 52.584 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Tgt Ion: 98 Resp: 162904
Ion Ratio Lower Upper
98 100
100 62.5 53.1 79.7

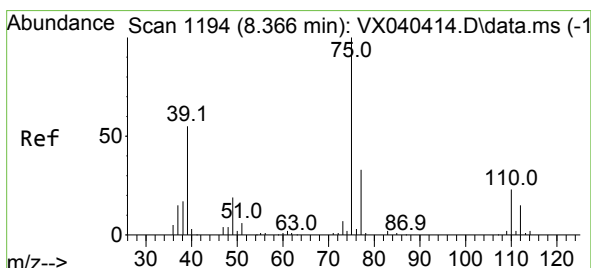
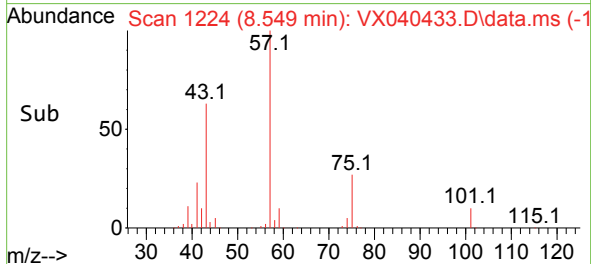
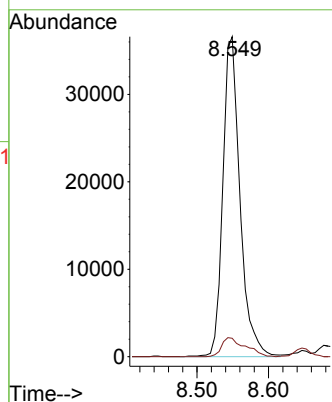
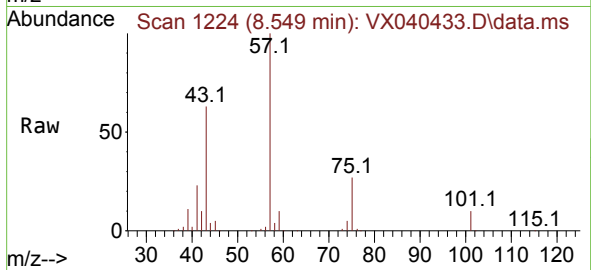




#51
4-Methyl-2-Pentanone
Concen: 38.516 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

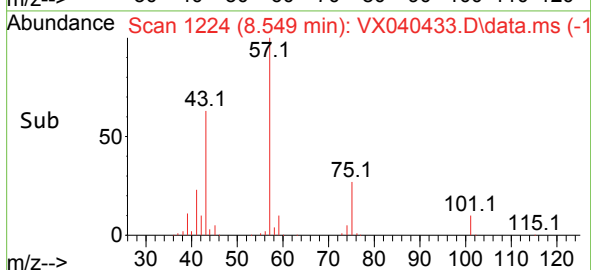
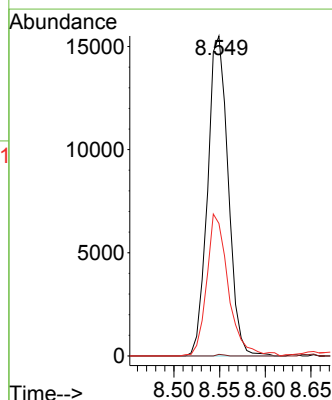
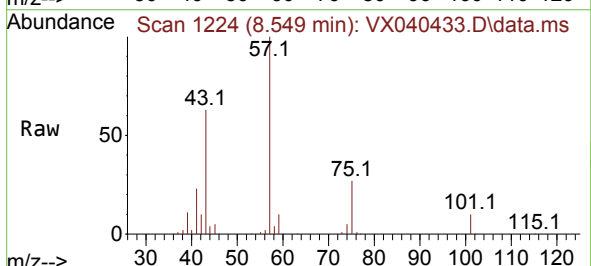
Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

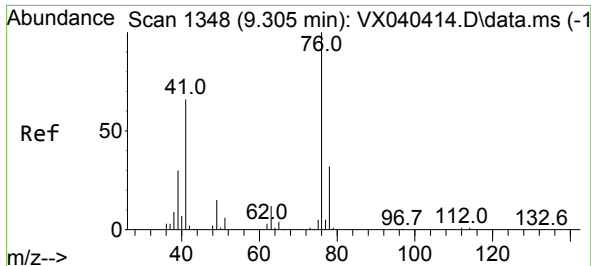
Tgt Ion: 43 Resp: 60870
Ion Ratio Lower Upper
43 100
58 8.2 30.4 45.6#



#54
cis-1,3-Dichloropropene
Concen: 16.744 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Tgt Ion: 75 Resp: 24197
Ion Ratio Lower Upper
75 100
77 0.5 25.3 37.9#
39 41.4 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 1.958 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX040433.D

Acq: 23 Feb 2024 15:46

Instrument :

MSVOA_X

ClientSampleId :

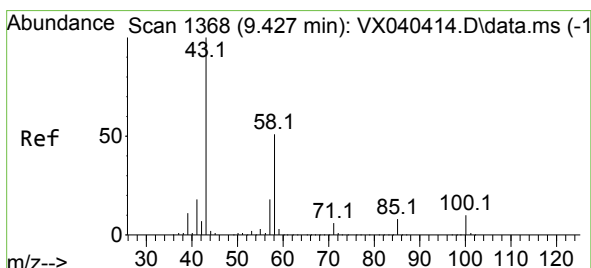
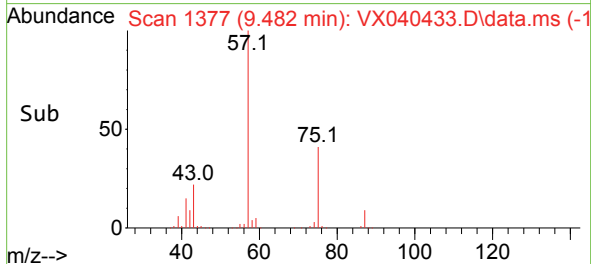
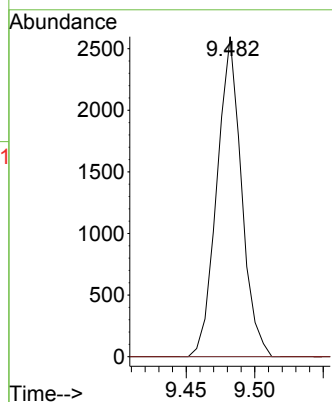
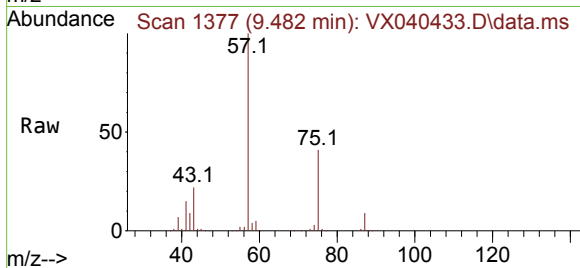
PB159217ZHE#03

Tgt Ion: 76 Resp: 3232

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 60.367 ug/l

RT: 9.372 min Scan# 1359

Delta R.T. -0.055 min

Lab File: VX040433.D

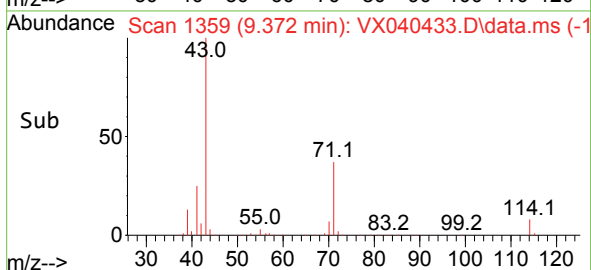
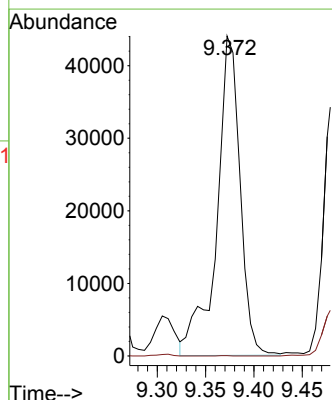
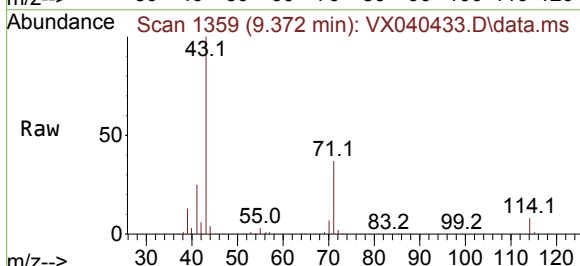
Acq: 23 Feb 2024 15:46

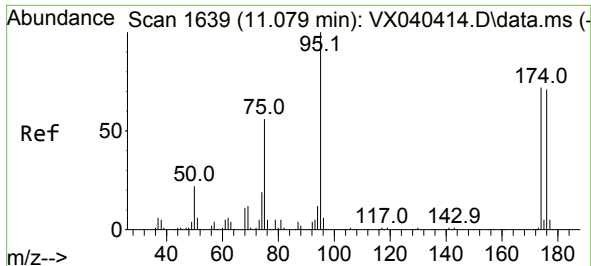
Tgt Ion: 43 Resp: 73579

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#

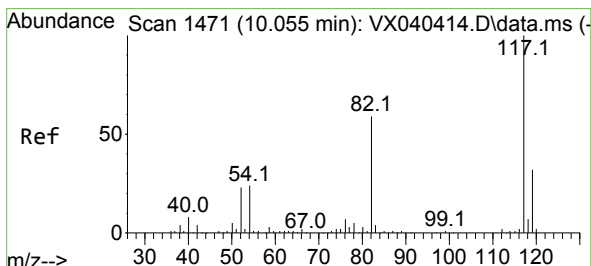
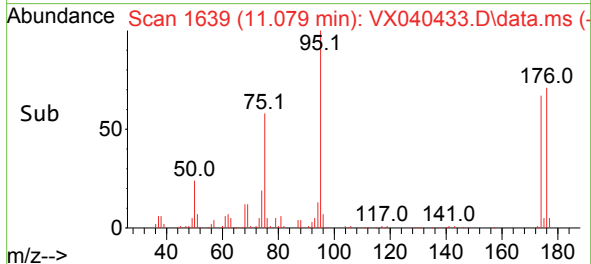
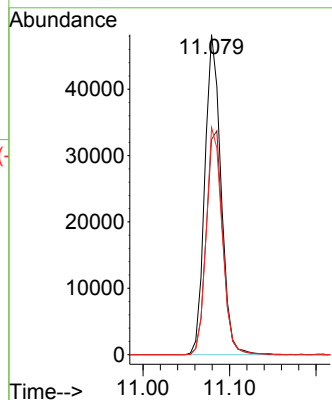
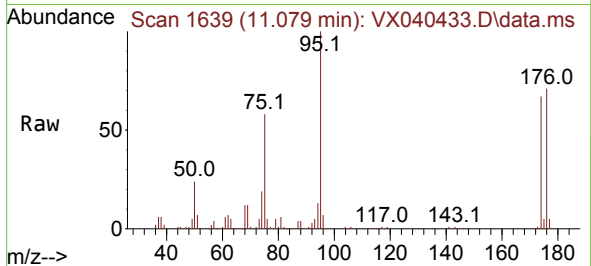




#62
4-Bromofluorobenzene
Concen: 50.116 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

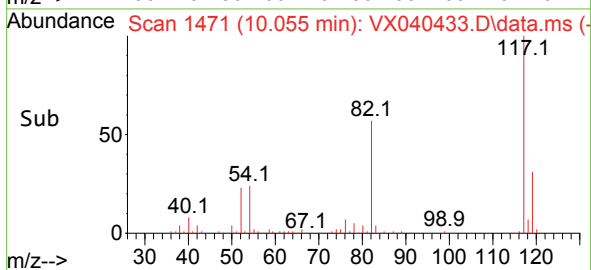
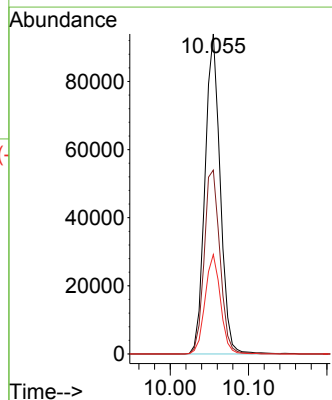
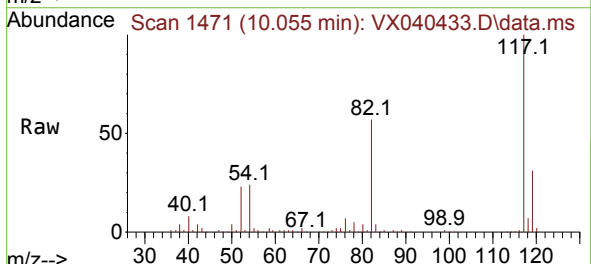
Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

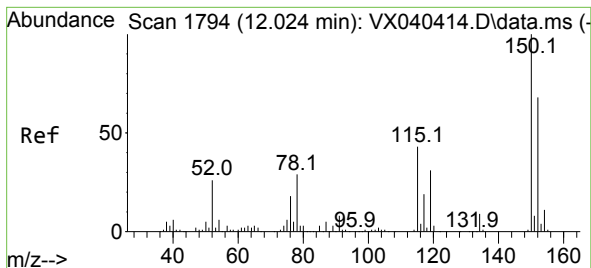
Tgt Ion: 95 Resp: 62215
Ion Ratio Lower Upper
95 100
174 71.8 0.0 135.6
176 70.8 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Tgt Ion: 117 Resp: 126340
Ion Ratio Lower Upper
117 100
82 57.4 46.2 69.4
119 31.0 25.5 38.3

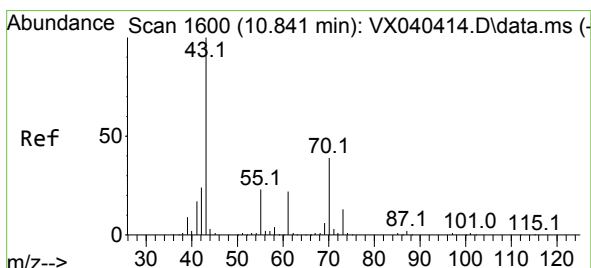
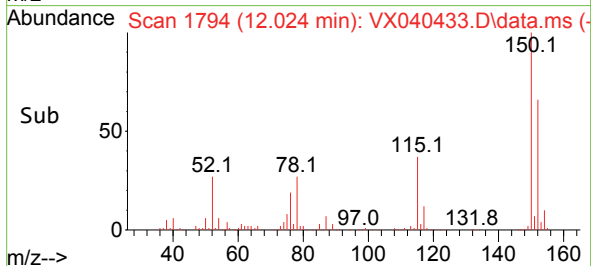
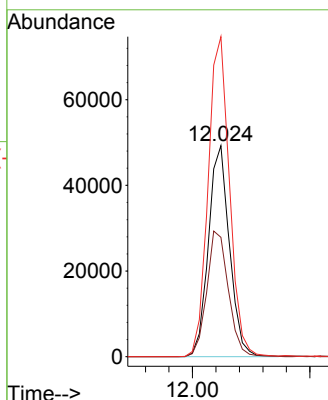
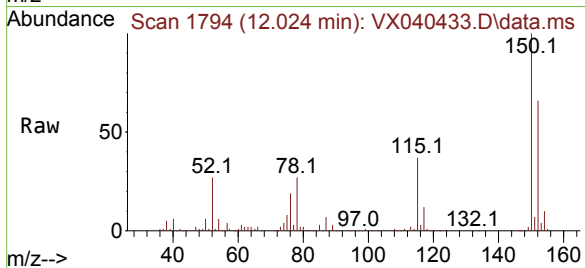




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: VX040433.D
 Acq: 23 Feb 2024 15:46

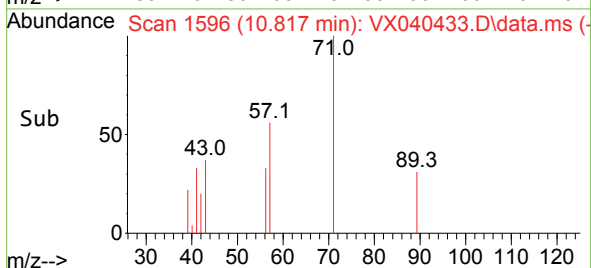
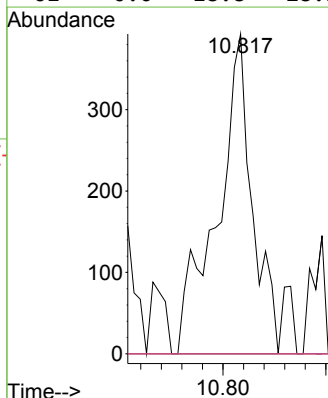
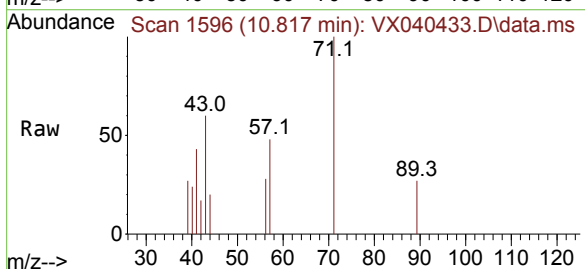
Instrument :
 MSVOA_X
 ClientSampleId :
 PB159217ZHE#03

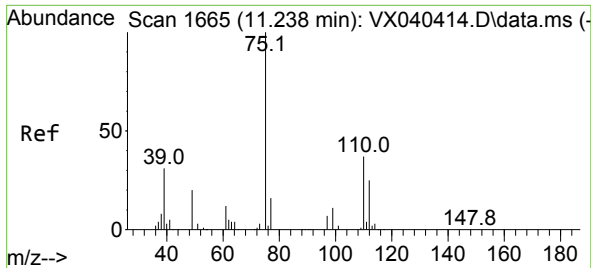
Tgt Ion:152 Resp: 61244
 Ion Ratio Lower Upper
 152 100
 115 61.3 43.3 129.9
 150 154.1 0.0 345.0



#74
 N-ethyl acetate
 Concen: 0.465 ug/l
 RT: 10.817 min Scan# 1596
 Delta R.T. -0.024 min
 Lab File: VX040433.D
 Acq: 23 Feb 2024 15:46

Tgt Ion: 43 Resp: 935
 Ion Ratio Lower Upper
 43 100
 70 0.0 32.9 49.3#
 55 0.0 19.3 28.9#
 61 0.0 18.8 28.2#

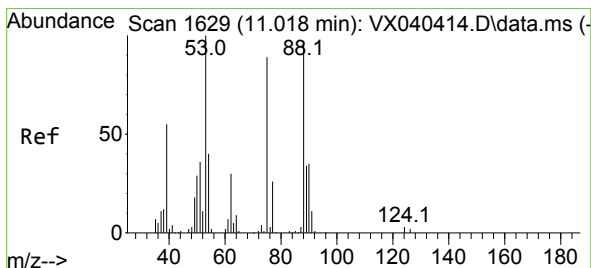
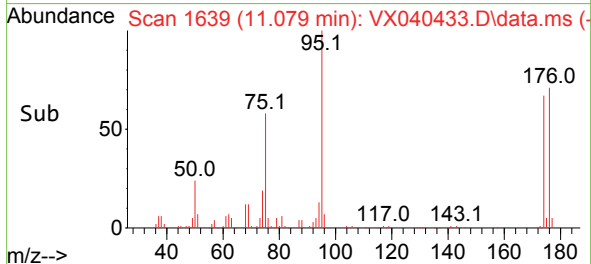
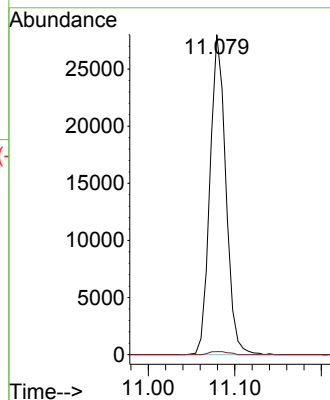
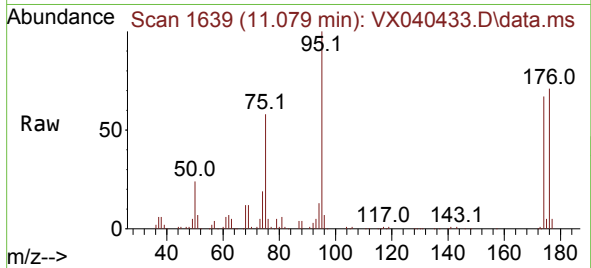




#76
1,2,3-Trichloropropane
Concen: 26.188 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Instrument :
MSVOA_X
ClientSampleId :
PB159217ZHE#03

Tgt Ion: 75 Resp: 35664
Ion Ratio Lower Upper
75 100
77 1.2 19.1 57.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.124 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX040433.D
Acq: 23 Feb 2024 15:46

Tgt Ion: 75 Resp: 35664
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.1 36.9 55.3#

