

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090823\
 Data File : VX037611.D
 Acq On : 08 Sep 2023 19:03
 Operator : JC/MD
 Sample : PB155394ZHE#03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

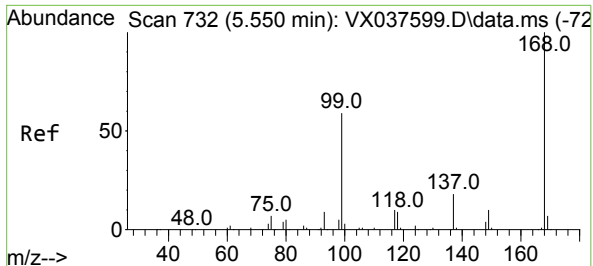
Instrument :
 MSVOA_X
 ClientSampleId :
 PB155394ZHE#03

Quant Time: Sep 09 04:58:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X090823W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 09 03:56:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	131217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	219697	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	199765	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	88062	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	75295	42.509	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	85.020%		
35) Dibromofluoromethane	5.385	113	66648	43.372	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	86.740%		
50) Toluene-d8	8.647	98	259859	46.107	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	92.220%		
62) 4-Bromofluorobenzene	11.079	95	94040	44.272	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	88.540%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.136	74	817	0.881	ug/l	94
11) Tert butyl alcohol	2.947	59	4273	10.781	ug/l #	78
13) Acrolein	2.233	56	145	0.372	ug/l	90
16) Acetone	2.386	43	18576	25.502	ug/l #	83
18) Methyl Acetate	2.709	43	1928	0.652	ug/l #	91
20) Methylene Chloride	2.788	84	11663	6.076	ug/l #	83
25) 2-Butanone	4.574	43	5669	5.132	ug/l #	84
29) Tetrahydrofuran	5.032	42	175	0.247	ug/l #	49
31) Cyclohexane	5.550	56	2252	1.045	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	9348	4.605	ug/l #	52
37) Ethyl Acetate	4.745	43	2393	1.150	ug/l #	81
38) Carbon Tetrachloride	5.556	117	13365	6.370	ug/l #	13
43) Isopropyl Acetate	6.348	43	92255	29.592	ug/l #	88
44) Trichloroethene	7.129	130	396	0.231	ug/l	93
48) Methyl methacrylate	7.799	41	80789	54.145	ug/l #	45
49) 1,4-Dioxane	7.805	88	145	3.097	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	82797	41.759	ug/l #	37
53) t-1,3-Dichloropropene	8.952	75	899	0.413	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	43666	18.018	ug/l #	49
56) Ethyl methacrylate	9.244	69	860	0.350	ug/l #	1
57) 1,3-Dichloropropane	9.482	76	5711	2.032	ug/l #	42
59) 2-Hexanone	9.482	43	59675	39.462	ug/l #	58
68) m/p-Xylenes	10.305	106	639	0.218	ug/l	96
74) N-amyl acetate	10.823	43	722	0.317	ug/l #	44
76) 1,2,3-Trichloropropane	11.079	75	43651	21.129	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	43651	63.349	ug/l #	5
87) 1,3-Dichlorobenzene	11.969	146	631	0.203	ug/l	88
93) 1,2,4-Trichlorobenzene	13.591	180	542	0.289	ug/l	97
96) 1,2,3-Trichlorobenzene	13.963	180	450	0.232	ug/l #	80

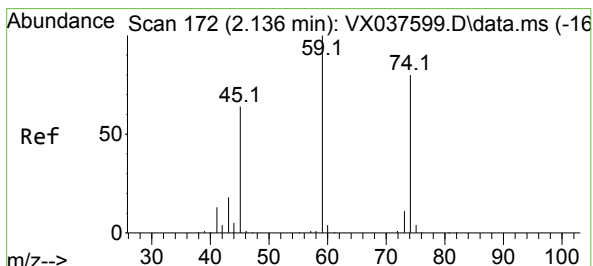
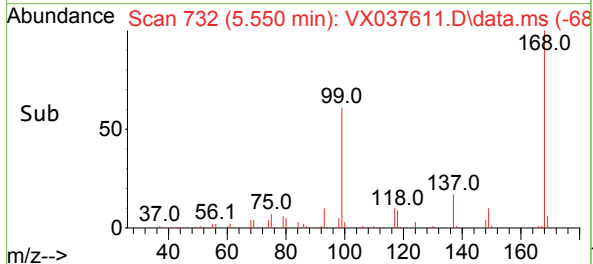
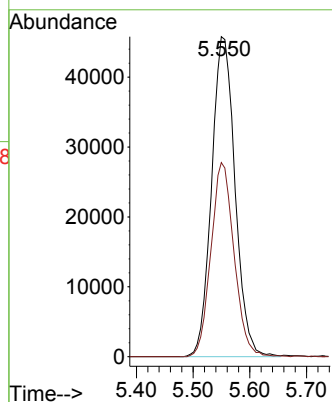
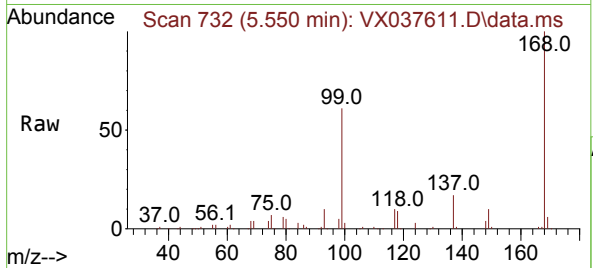
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

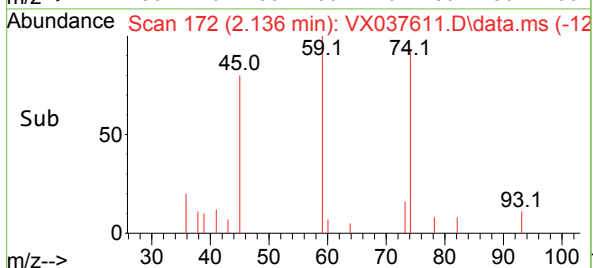
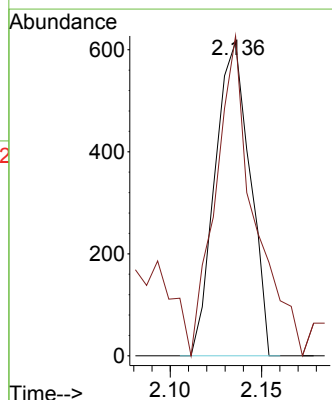
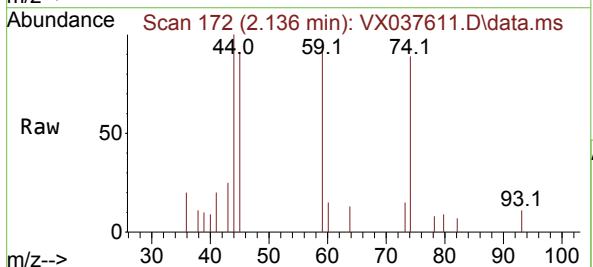
Instrument :
MSVOA_X
ClientSampleId :
PB155394ZHE#03

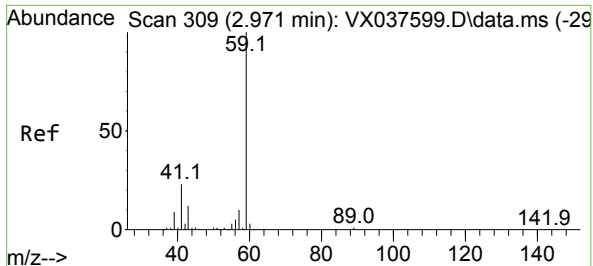
Tgt Ion:168 Resp: 131217
Ion Ratio Lower Upper
168 100
99 60.7 56.6 85.0



#8
Diethyl Ether
Concen: 0.881 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

Tgt Ion: 74 Resp: 817
Ion Ratio Lower Upper
74 100
45 112.4 53.3 159.8





#11

Tert butyl alcohol

Concen: 10.781 ug/l

RT: 2.947 min Scan# 309

Delta R.T. -0.024 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

Instrument :

MSVOA_X

ClientSampleId :

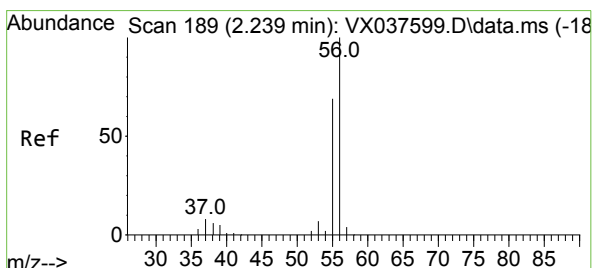
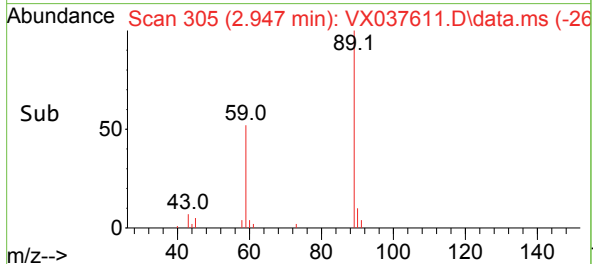
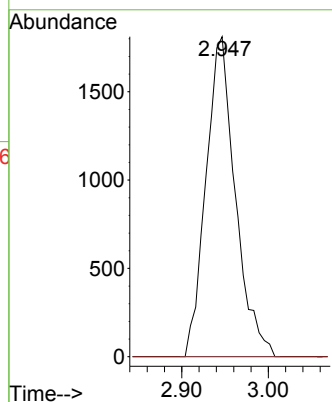
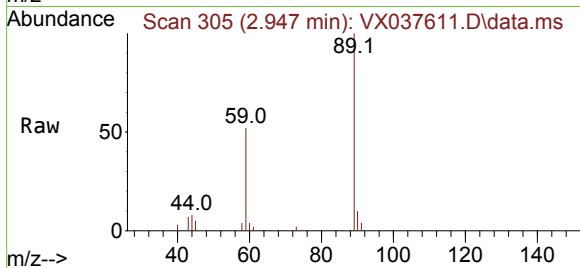
PB155394ZHE#03

Tgt Ion: 59 Resp: 4273

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#13

Acrolein

Concen: 0.372 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX037611.D

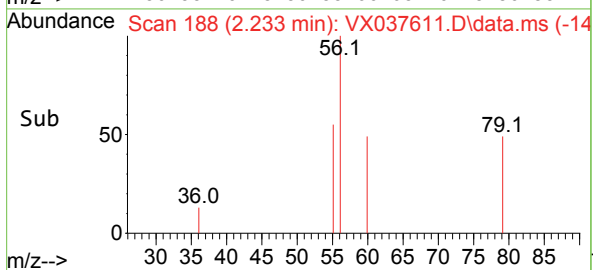
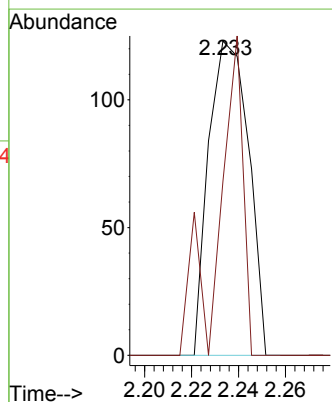
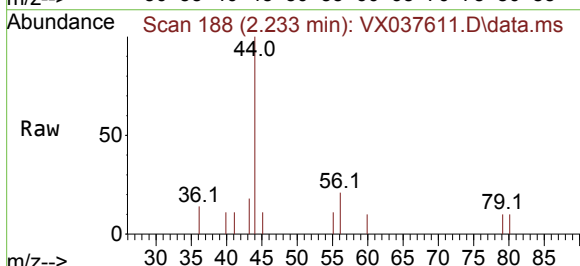
Acq: 08 Sep 2023 19:03

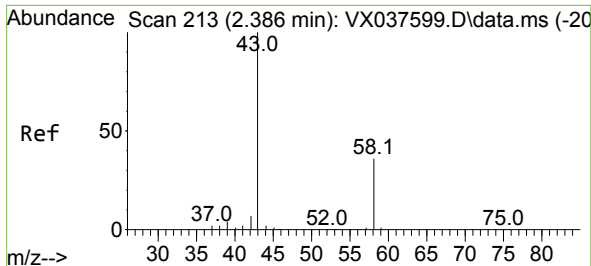
Tgt Ion: 56 Resp: 145

Ion Ratio Lower Upper

56 100

55 62.8 57.1 85.7

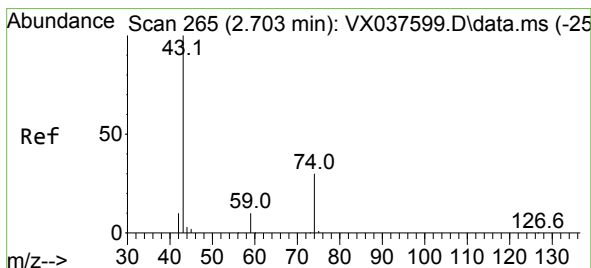
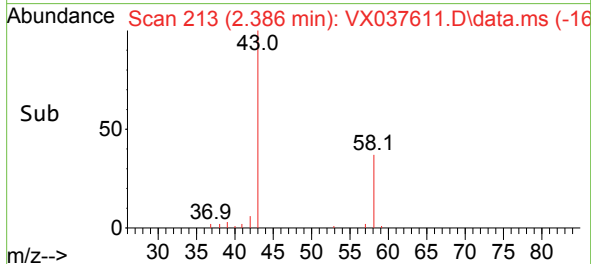
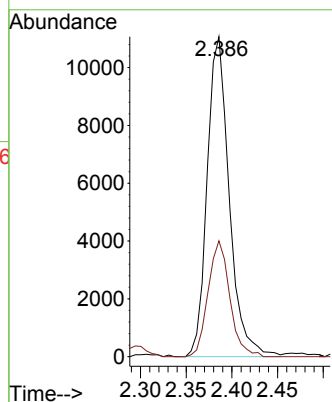
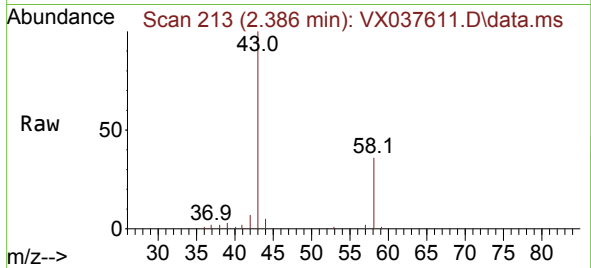




#16
Acetone
Concen: 25.502 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

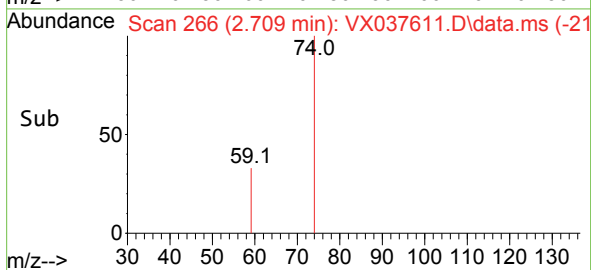
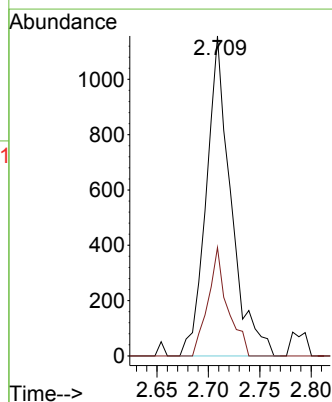
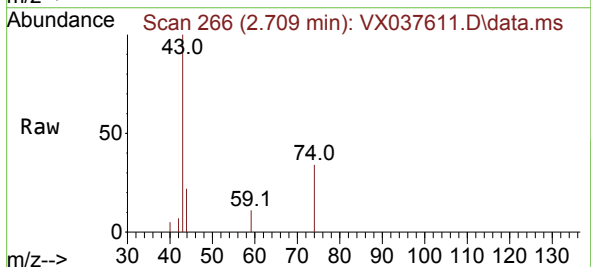
Instrument :
MSVOA_X
ClientSampleId :
PB155394ZHE#03

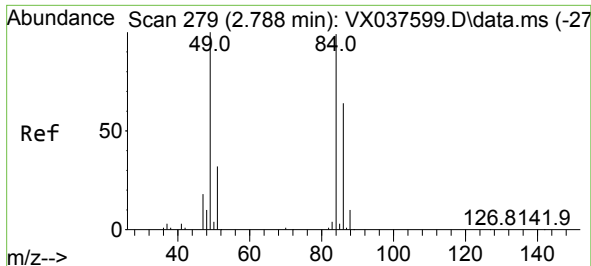
Tgt Ion: 43 Resp: 18576
Ion Ratio Lower Upper
43 100
58 36.2 21.9 32.9#



#18
Methyl Acetate
Concen: 0.652 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

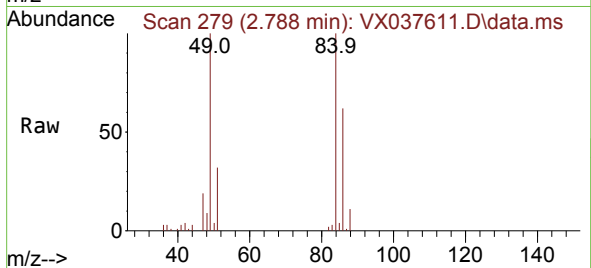
Tgt Ion: 43 Resp: 1928
Ion Ratio Lower Upper
43 100
74 26.8 17.8 26.8#



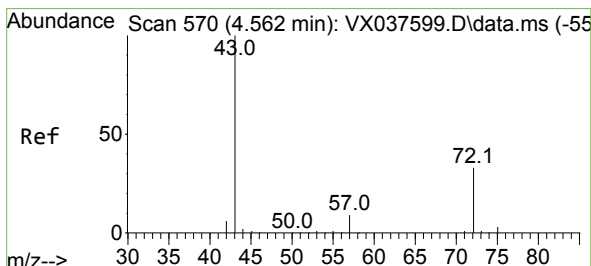
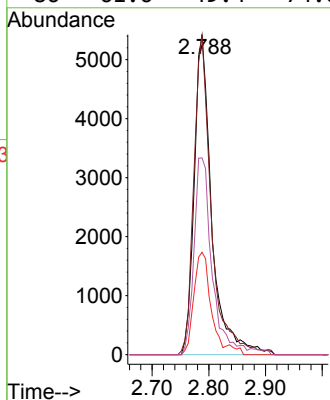
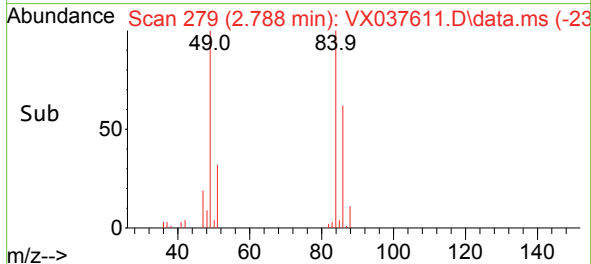


#20
Methylene Chloride
Concen: 6.076 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

Instrument :
MSVOA_X
ClientSampleId :
PB155394ZHE#03

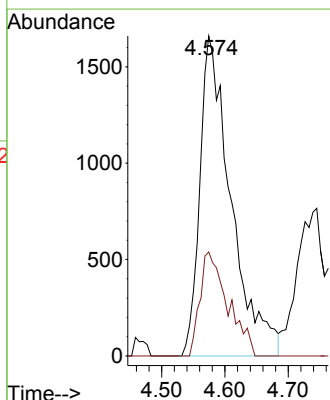
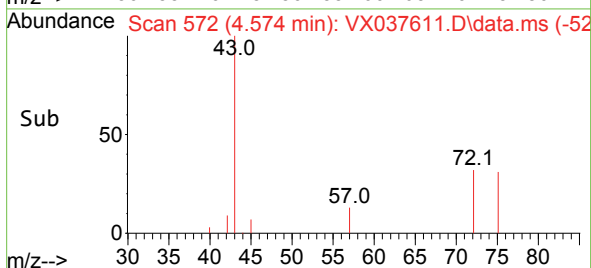
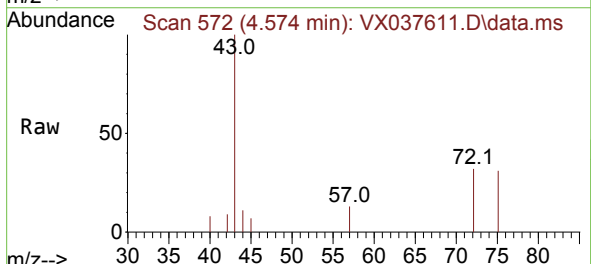


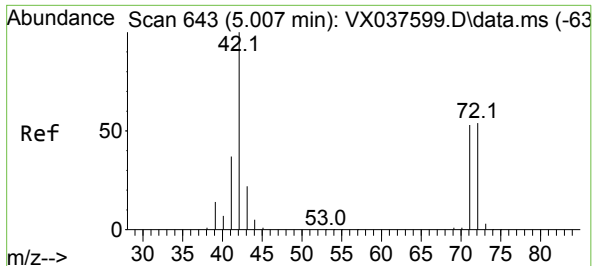
Tgt Ion:	84	Resp:	11663
Ion	Ratio	Lower	Upper
84	100		
49	100.2	103.6	155.4#
51	32.1	33.8	50.6#
86	61.6	49.4	74.0



#25
2-Butanone
Concen: 5.132 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.012 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

Tgt Ion:	43	Resp:	5669
Ion	Ratio	Lower	Upper
43	100		
72	32.5	19.4	29.2#





#29

Tetrahydrofuran

Concen: 0.247 ug/l

RT: 5.032 min Scan# 64

Delta R.T. 0.024 min

Lab File: VX037611.D

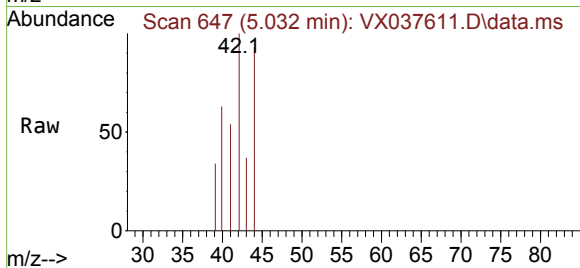
Acq: 08 Sep 2023 19:03

Instrument :

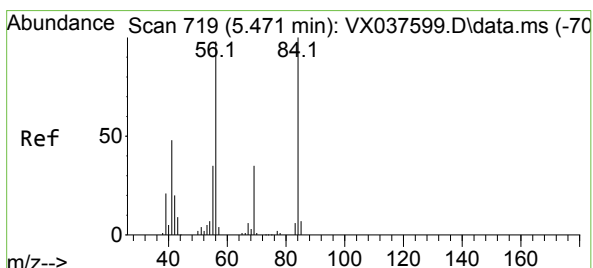
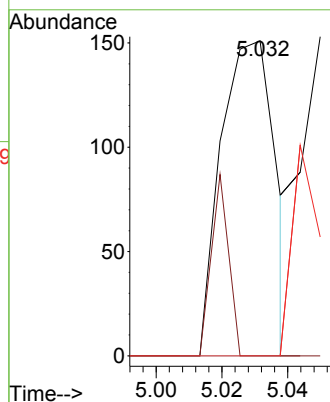
MSVOA_X

ClientSampleId :

PB155394ZHE#03



Tgt Ion:	42	Resp:	175
Ion	Ratio	Lower	Upper
42	100		
72	18.3	34.2	51.4#
71	0.0	32.2	48.2#



#31

Cyclohexane

Concen: 1.045 ug/l

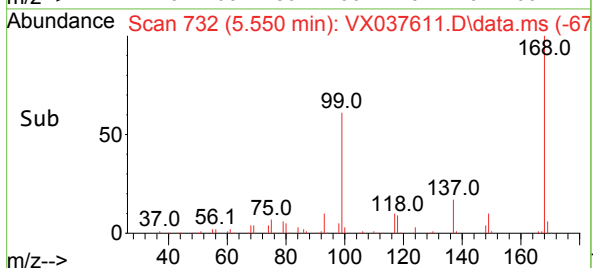
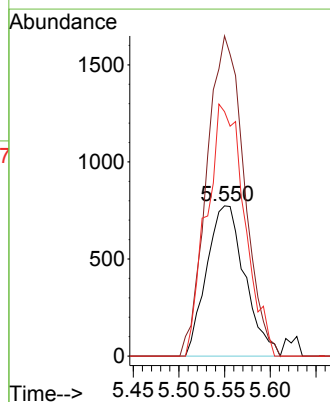
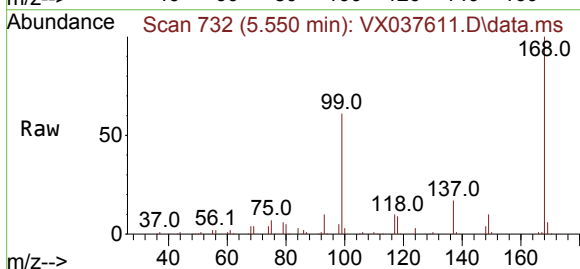
RT: 5.550 min Scan# 732

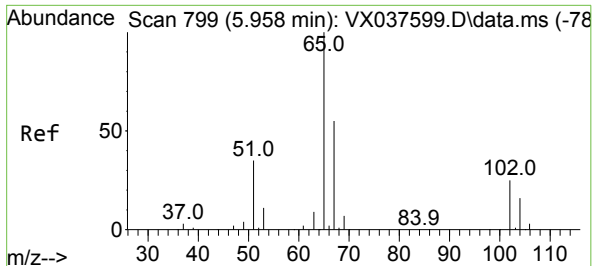
Delta R.T. 0.079 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

Tgt Ion:	56	Resp:	2252
Ion	Ratio	Lower	Upper
56	100		
69	213.0	23.4	35.2#
84	162.7	65.9	98.9#





#33

1,2-Dichloroethane-d4

Concen: 42.509 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

Instrument :

MSVOA_X

ClientSampleId :

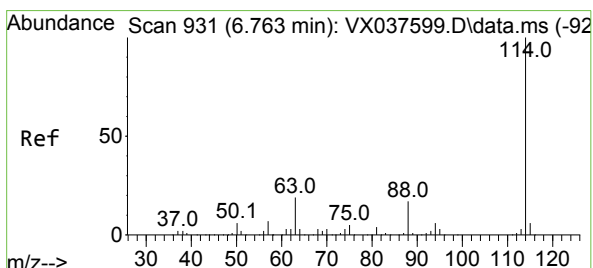
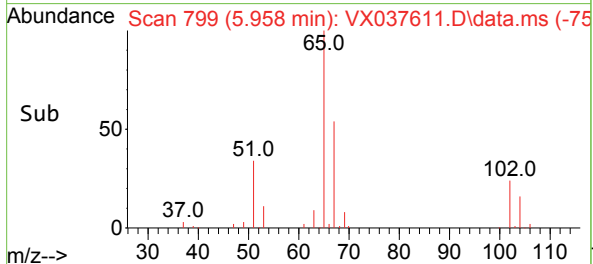
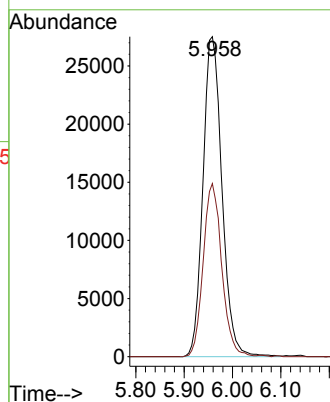
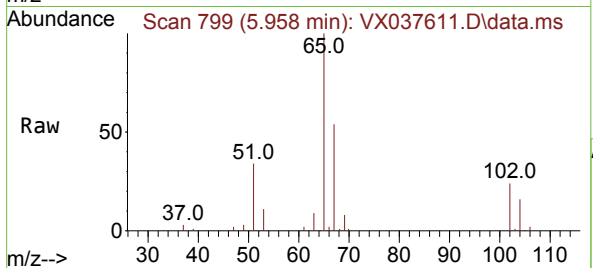
PB155394ZHE#03

Tgt Ion: 65 Resp: 75295

Ion Ratio Lower Upper

65 100

67 52.8 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

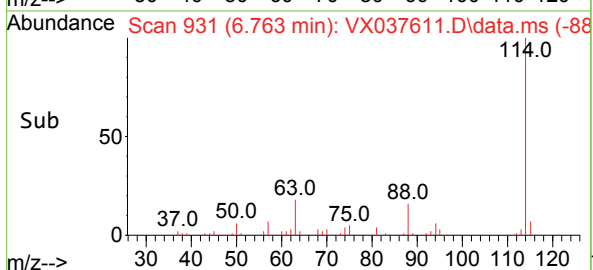
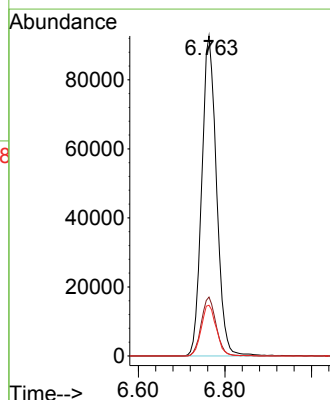
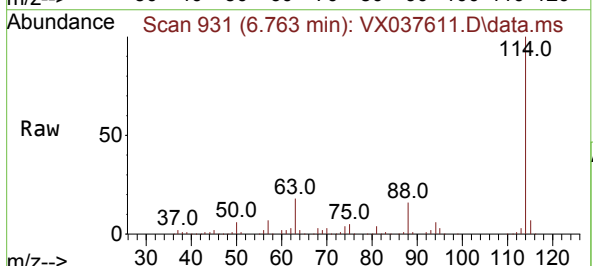
Tgt Ion: 114 Resp: 219697

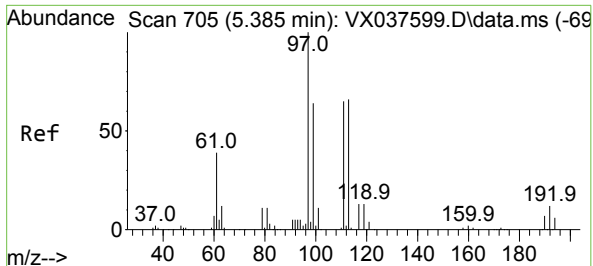
Ion Ratio Lower Upper

114 100

63 18.4 0.0 45.0

88 15.8 0.0 36.6





#35

Dibromofluoromethane

Concen: 43.372 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX037611.D

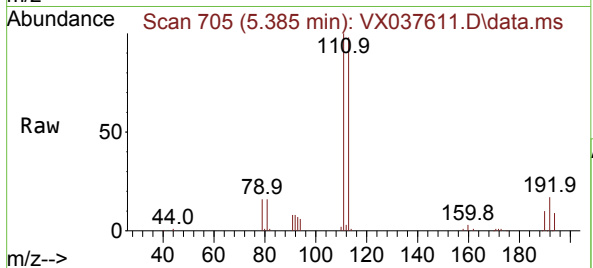
Acq: 08 Sep 2023 19:03

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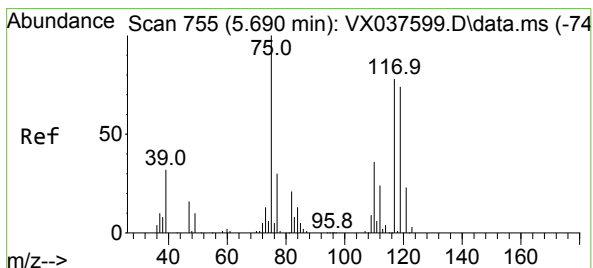
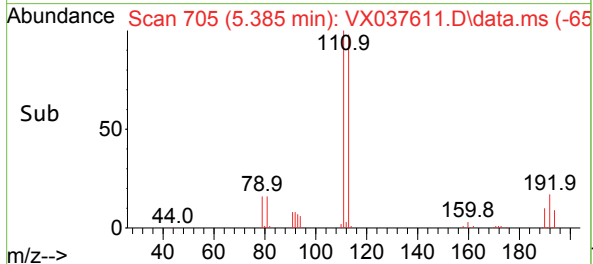
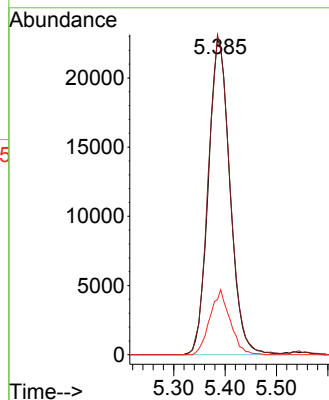
Tgt Ion:113 Resp: 66648

Ion Ratio Lower Upper

113 100

111 101.2 82.9 124.3

192 19.2 13.3 19.9



#36

1,1-Dichloropropene

Concen: 4.605 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.140 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

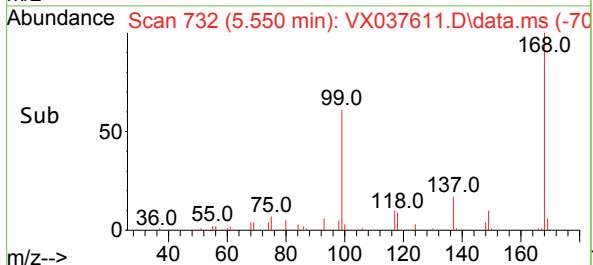
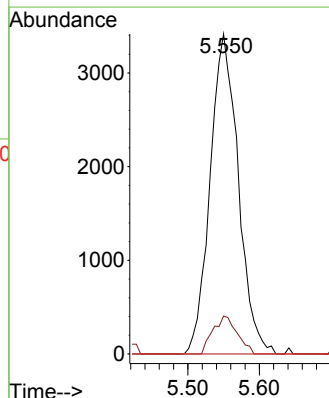
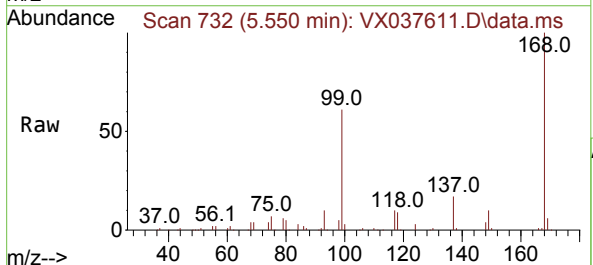
Tgt Ion: 75 Resp: 9348

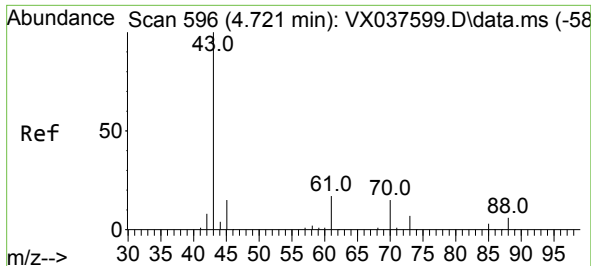
Ion Ratio Lower Upper

75 100

110 10.2 17.0 50.9#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.150 ug/l

RT: 4.745 min Scan# 600

Delta R.T. 0.024 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

Instrument :

MSVOA_X

ClientSampleId :

PB155394ZHE#03

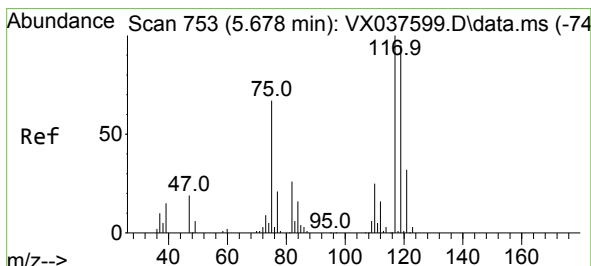
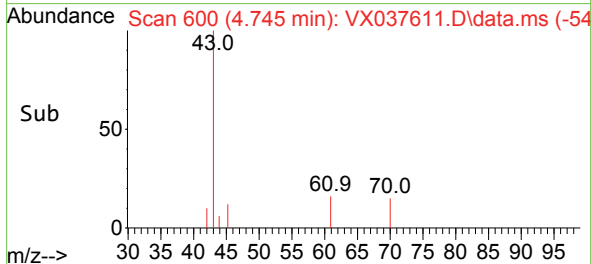
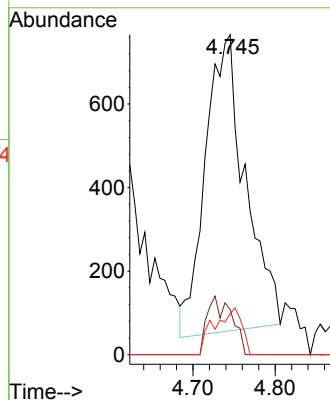
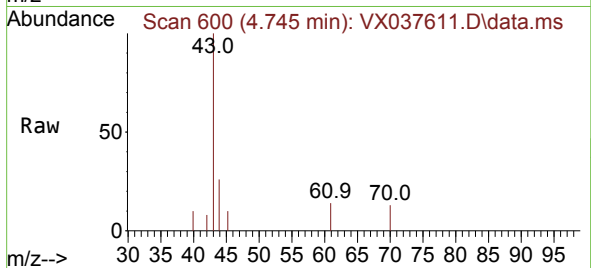
Tgt Ion: 43 Resp: 2393

Ion Ratio Lower Upper

43 100

61 0.0 10.6 16.0#

70 10.8 8.3 12.5



#38

Carbon Tetrachloride

Concen: 6.370 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.122 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

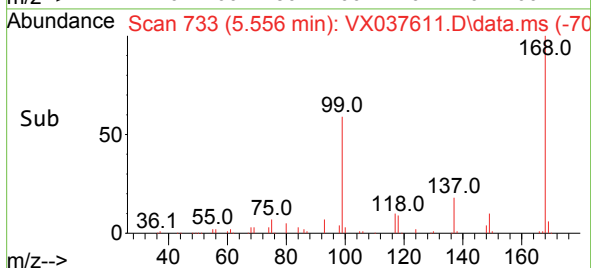
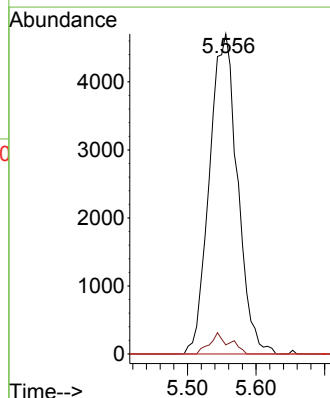
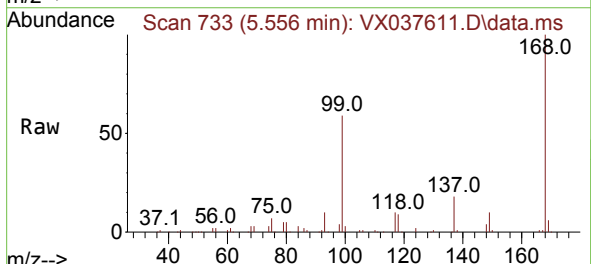
Tgt Ion: 117 Resp: 13365

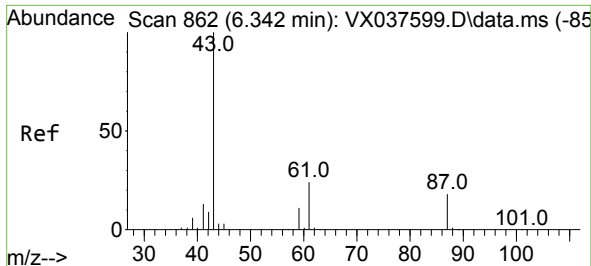
Ion Ratio Lower Upper

117 100

119 2.8 78.2 117.2#

121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 29.592 ug/l

RT: 6.348 min Scan# 862

Delta R.T. 0.006 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

Instrument :

MSVOA_X

ClientSampleId :

PB155394ZHE#03

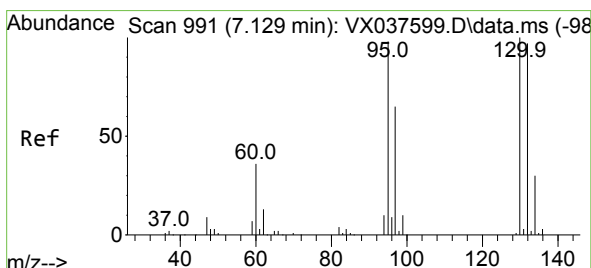
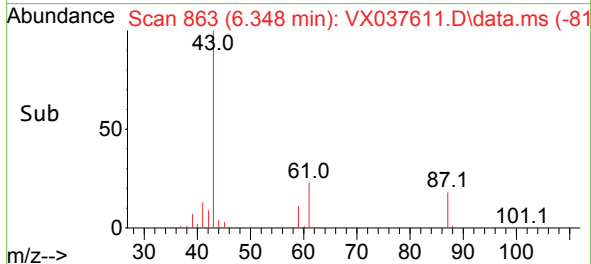
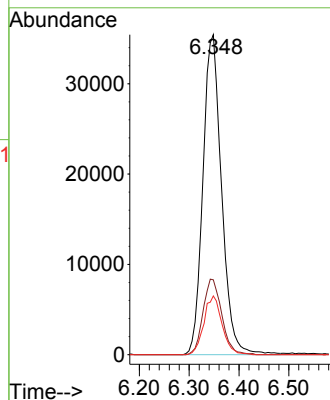
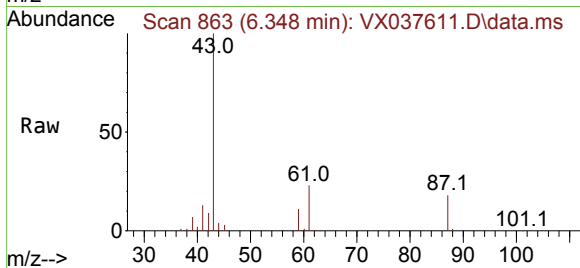
Tgt Ion: 43 Resp: 92255

Ion Ratio Lower Upper

43 100

61 23.6 15.2 22.8#

87 17.8 9.8 14.6#



#44

Trichloroethene

Concen: 0.231 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX037611.D

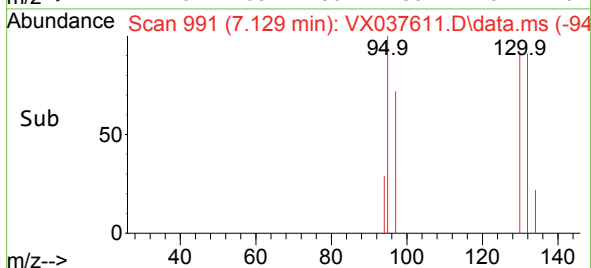
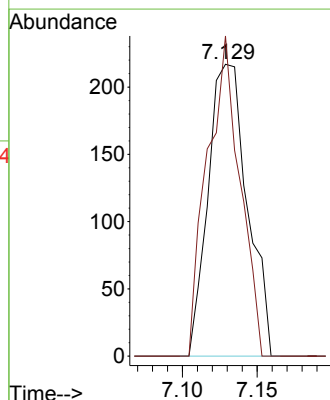
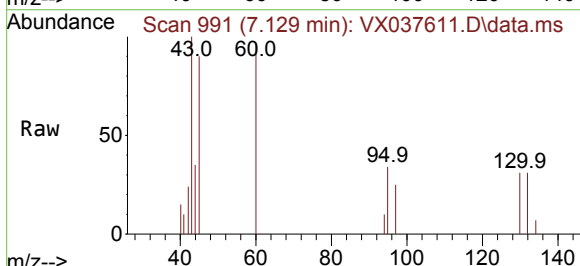
Acq: 08 Sep 2023 19:03

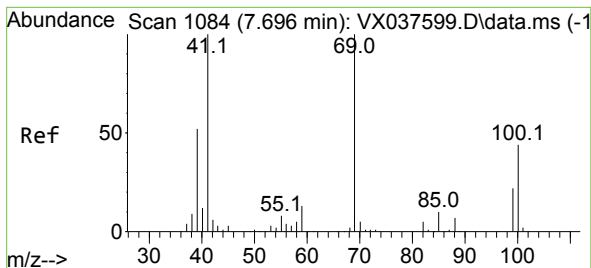
Tgt Ion:130 Resp: 396

Ion Ratio Lower Upper

130 100

95 109.7 0.0 204.4





#48

Methyl methacrylate

Concen: 54.145 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

Instrument :

MSVOA_X

ClientSampleId :

PB155394ZHE#03

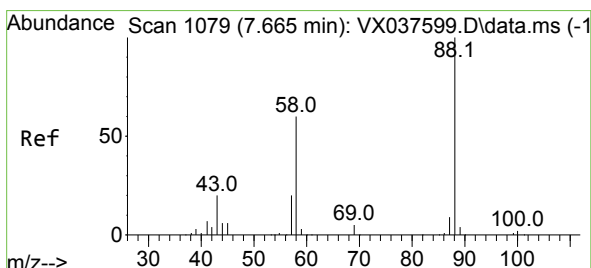
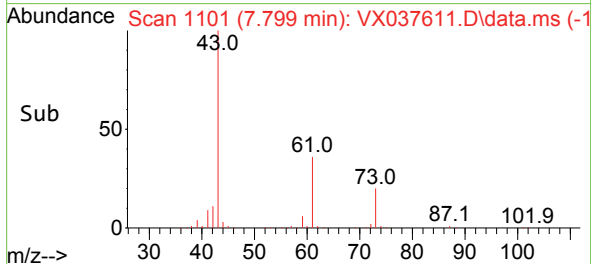
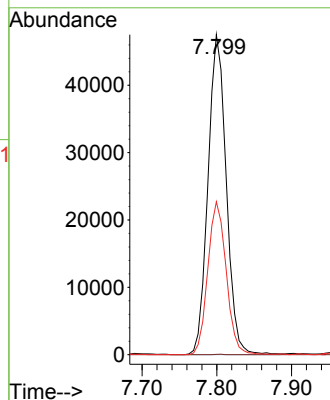
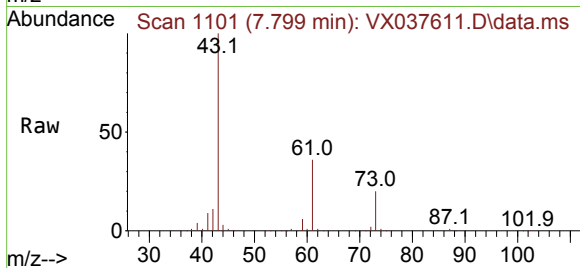
Tgt Ion: 41 Resp: 80789

Ion Ratio Lower Upper

41 100

69 0.1 59.2 88.8#

39 48.1 47.7 71.5



#49

1,4-Dioxane

Concen: 3.097 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. 0.140 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

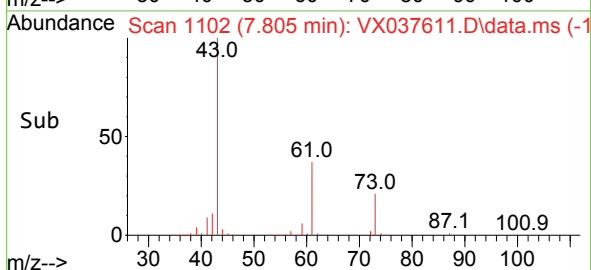
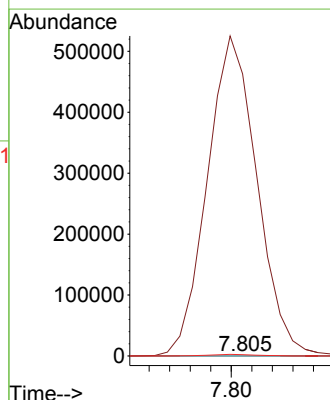
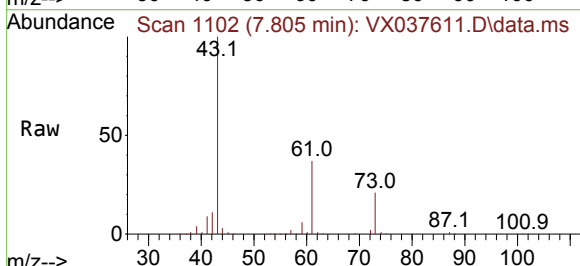
Tgt Ion: 88 Resp: 145

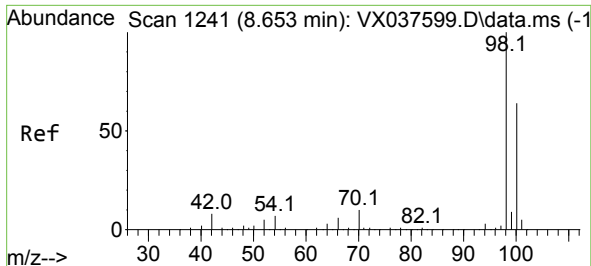
Ion Ratio Lower Upper

88 100

43 613617.2 0.0 0.0#

58 2900.0 60.1 90.1#

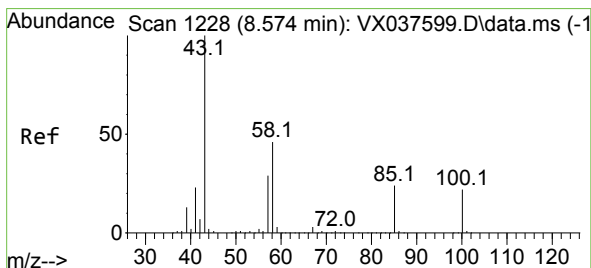
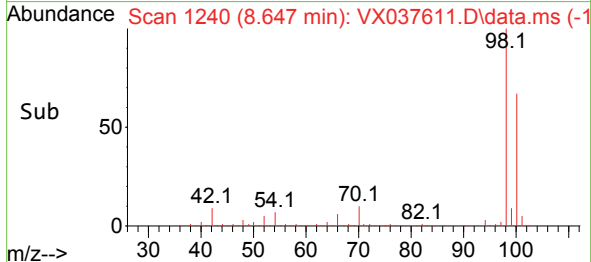
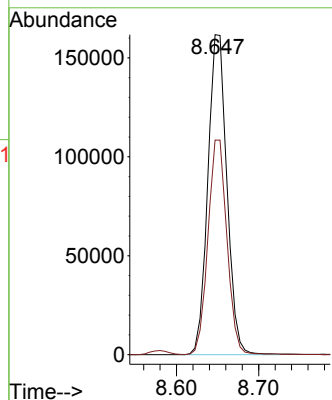
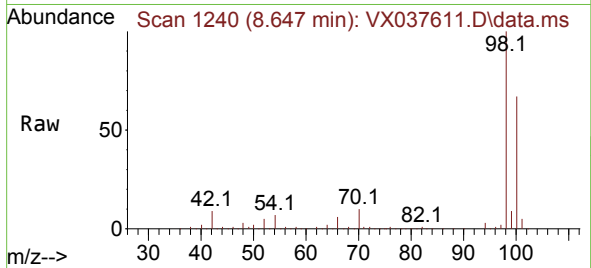




#50
Toluene-d8
Concen: 46.107 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

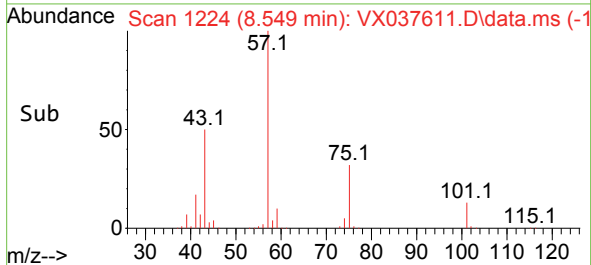
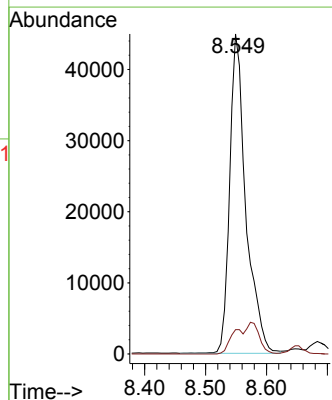
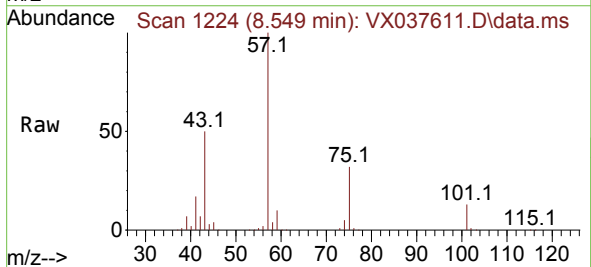
Instrument :
MSVOA_X
ClientSampleId :
PB155394ZHE#03

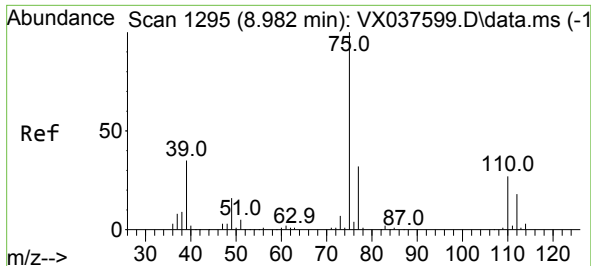
Tgt Ion: 98 Resp: 259859
Ion Ratio Lower Upper
98 100
100 66.8 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 41.759 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

Tgt Ion: 43 Resp: 82797
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#

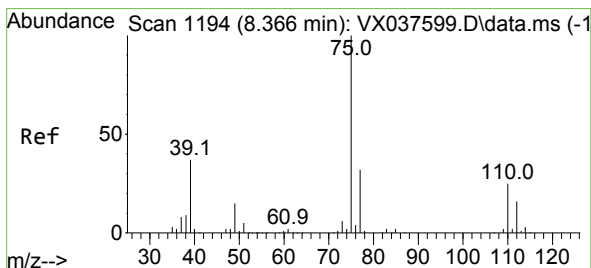
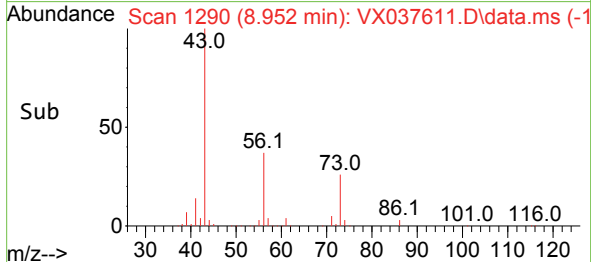
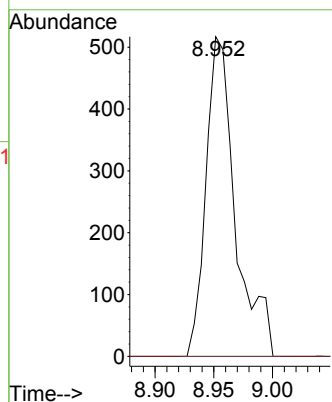
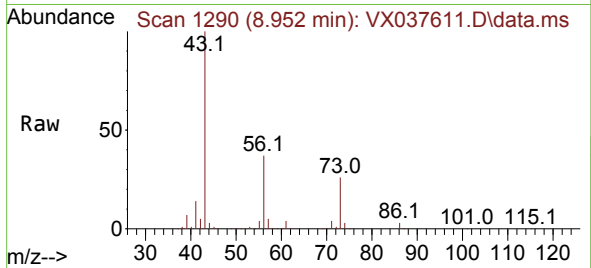




#53
 t-1,3-Dichloropropene
 Concen: 0.413 ug/l
 RT: 8.952 min Scan# 11
 Delta R.T. -0.031 min
 Lab File: VX037611.D
 Acq: 08 Sep 2023 19:03

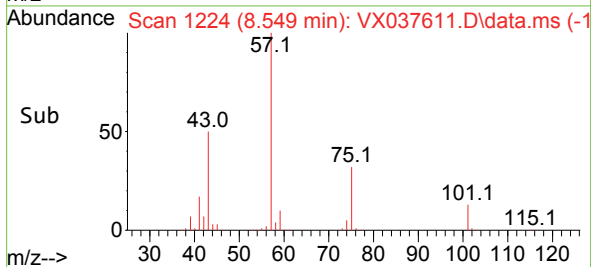
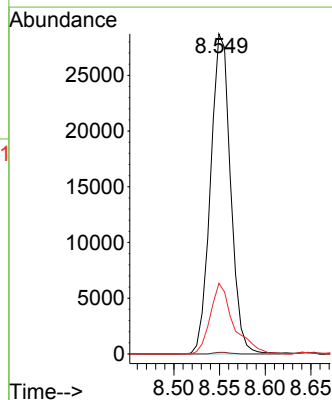
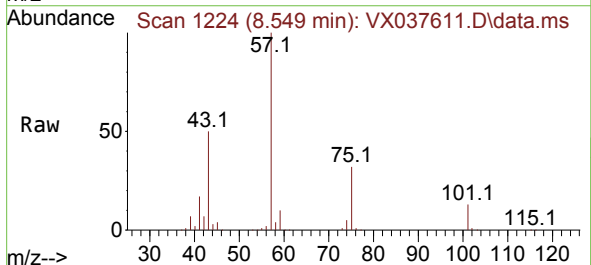
Instrument :
 MSVOA_X
 ClientSampleId :
 PB155394ZHE#03

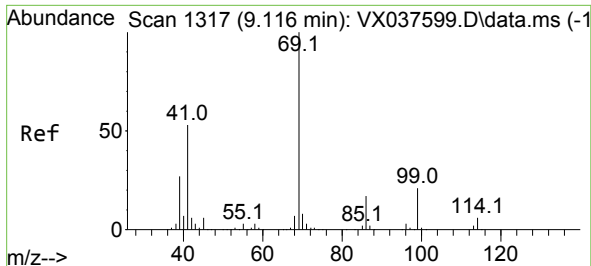
Tgt Ion: 75 Resp: 899
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#



#54
 cis-1,3-Dichloropropene
 Concen: 18.018 ug/l
 RT: 8.549 min Scan# 1224
 Delta R.T. 0.183 min
 Lab File: VX037611.D
 Acq: 08 Sep 2023 19:03

Tgt Ion: 75 Resp: 43666
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.3 37.9#
 39 22.1 46.7 70.1#

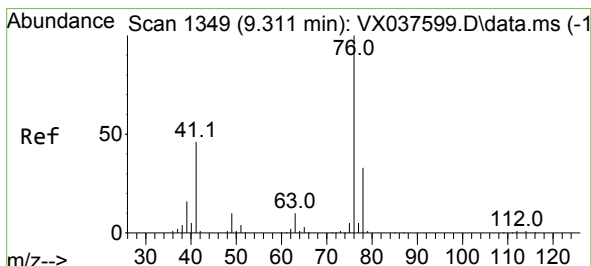
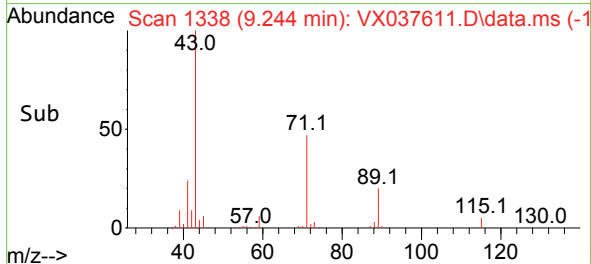
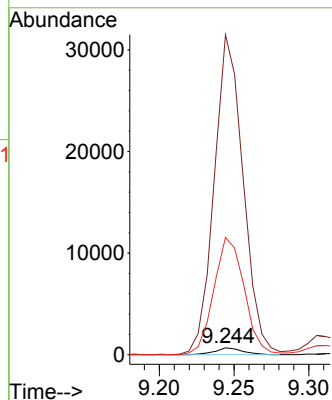
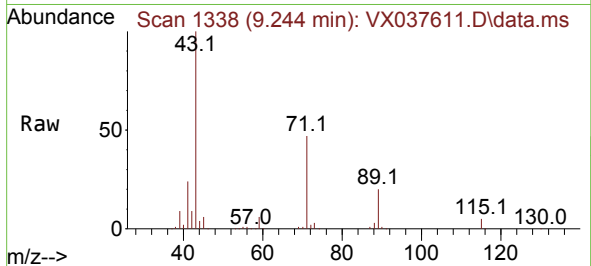




#56
Ethyl methacrylate
Concen: 0.350 ug/l
RT: 9.244 min Scan# 11
Delta R.T. 0.128 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

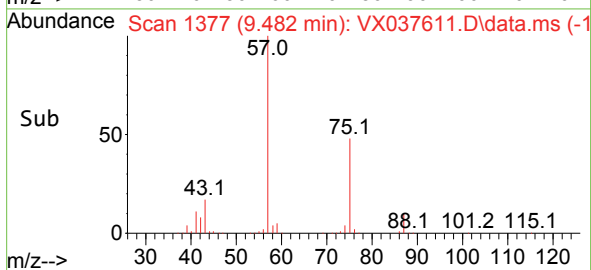
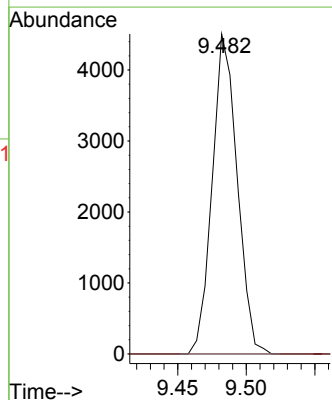
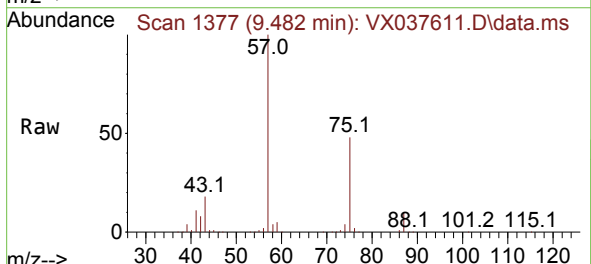
Instrument :
MSVOA_X
ClientSampleId :
PB155394ZHE#03

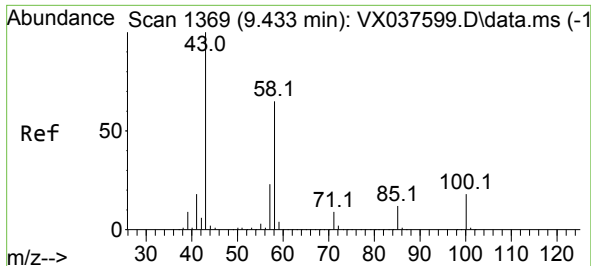
Tgt Ion: 69 Resp: 860
Ion Ratio Lower Upper
69 100
41 4938.0 56.8 85.2#
39 1896.5 32.0 48.0#



#57
1,3-Dichloropropane
Concen: 2.032 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.171 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

Tgt Ion: 76 Resp: 5711
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 39.462 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.049 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

Instrument :

MSVOA_X

ClientSampleId :

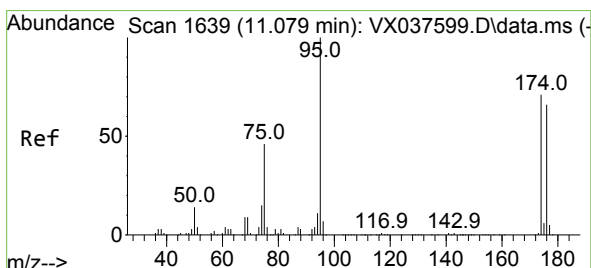
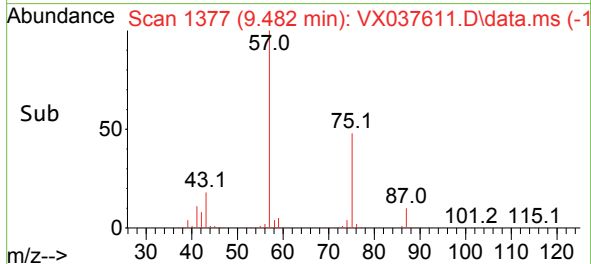
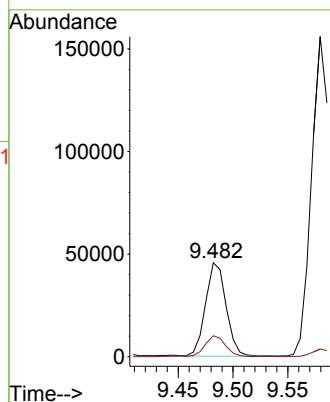
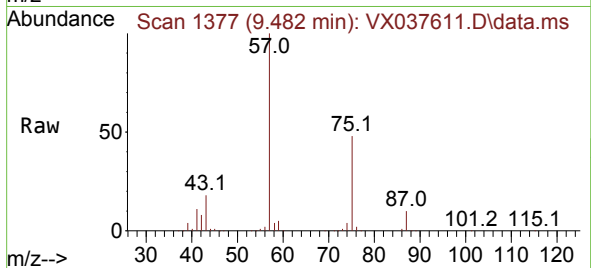
PB155394ZHE#03

Tgt Ion: 43 Resp: 59675

Ion Ratio Lower Upper

43 100

58 22.9 26.2 78.5#



#62

4-Bromofluorobenzene

Concen: 44.272 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

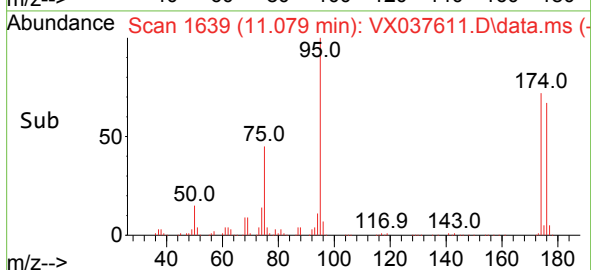
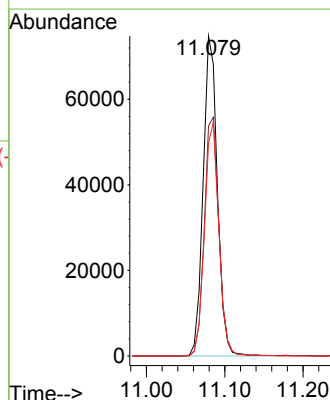
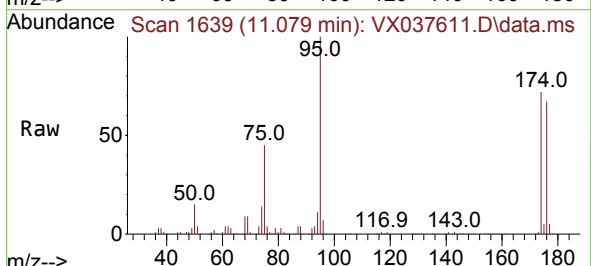
Tgt Ion: 95 Resp: 94040

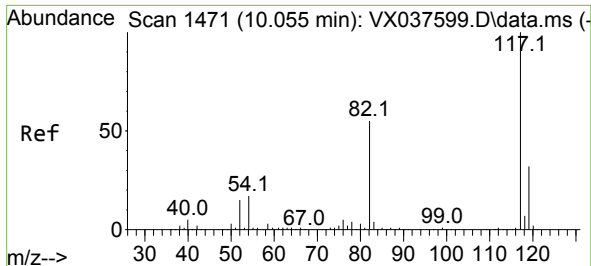
Ion Ratio Lower Upper

95 100

174 76.6 0.0 135.6

176 73.7 0.0 131.0

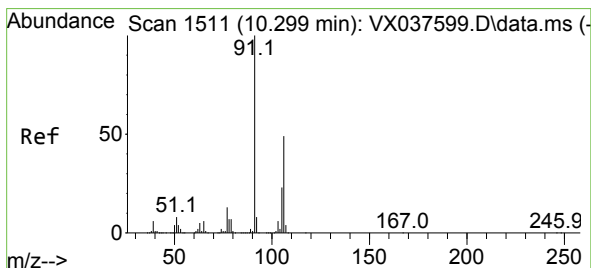
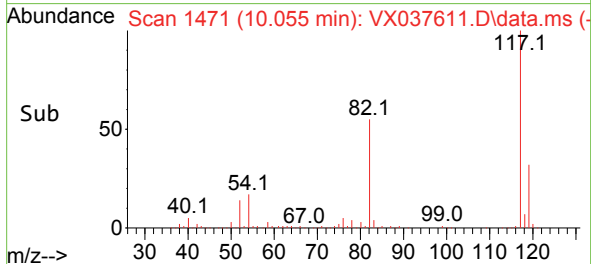
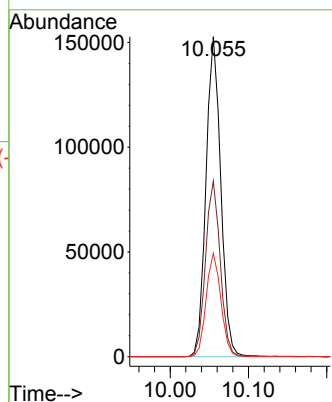
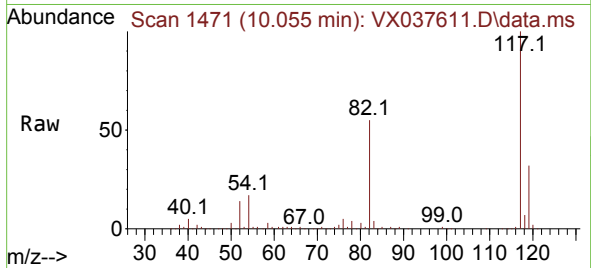




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

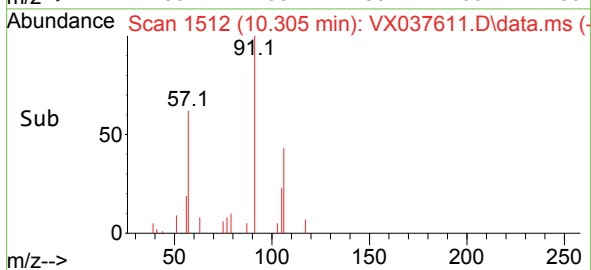
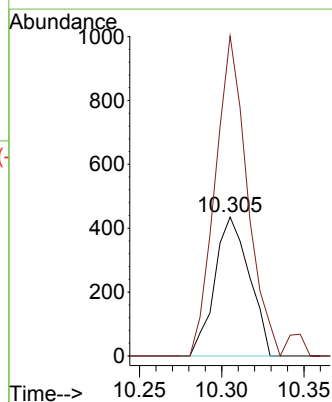
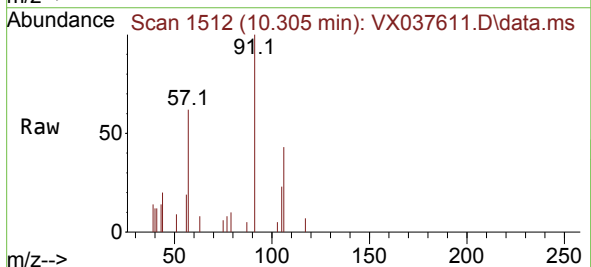
Instrument :
MSVOA_X
ClientSampleId :
PB155394ZHE#03

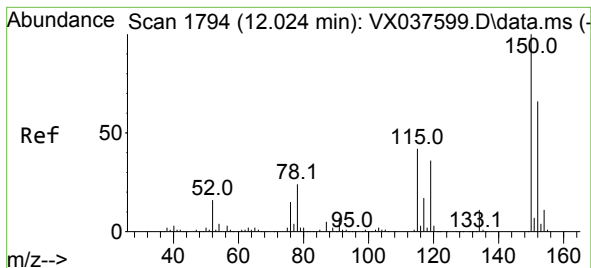
Tgt Ion:117 Resp: 199765
Ion Ratio Lower Upper
117 100
82 54.9 46.2 69.4
119 32.3 25.5 38.3



#68
m/p-Xylenes
Concen: 0.218 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX037611.D
Acq: 08 Sep 2023 19:03

Tgt Ion:106 Resp: 639
Ion Ratio Lower Upper
106 100
91 213.0 165.5 248.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

Instrument :

MSVOA_X

ClientSampleId :

PB155394ZHE#03

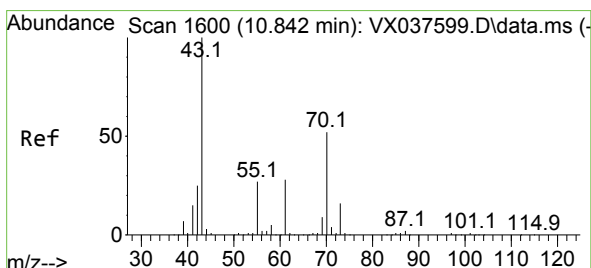
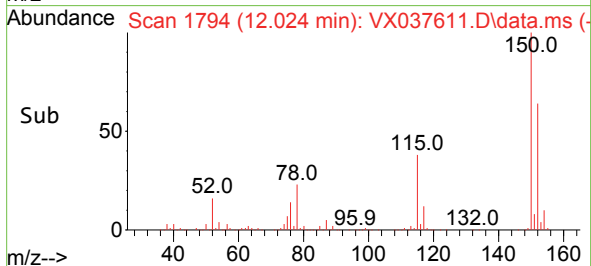
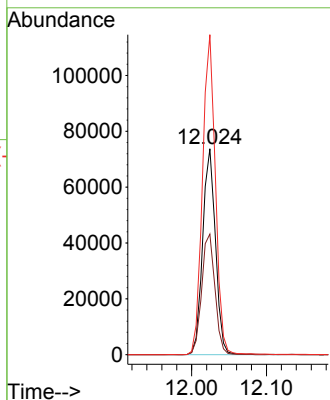
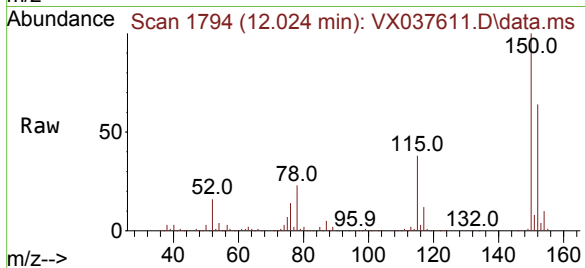
Tgt Ion:152 Resp: 88062

Ion Ratio Lower Upper

152 100

115 60.8 43.3 129.9

150 156.4 0.0 345.0



#74

N-ethyl acetate

Concen: 0.317 ug/l

RT: 10.823 min Scan# 1597

Delta R.T. -0.018 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

Tgt Ion: 43 Resp: 722

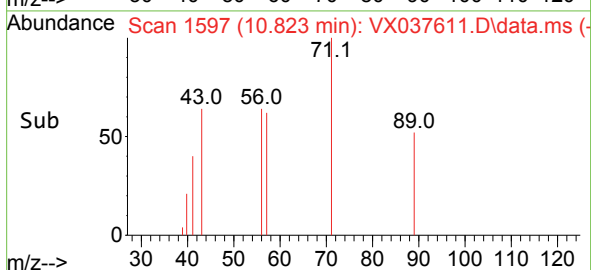
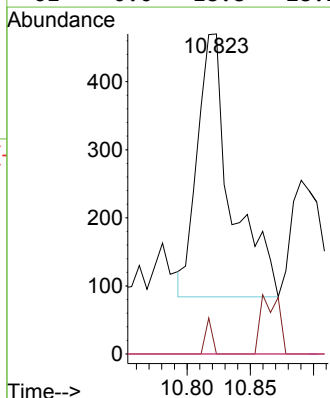
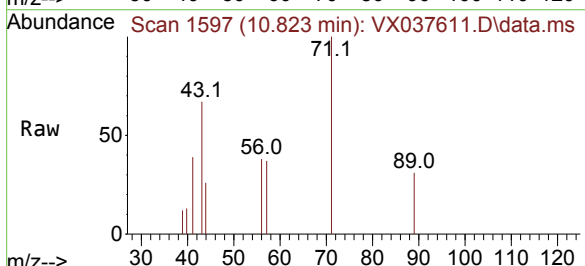
Ion Ratio Lower Upper

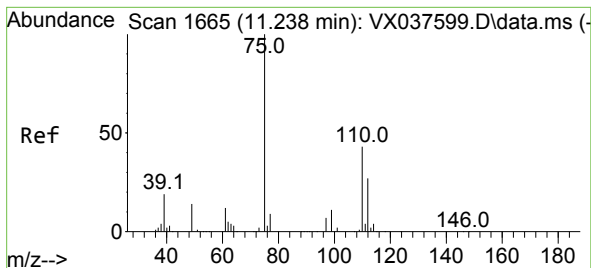
43 100

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: 21.129 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

Instrument :

MSVOA_X

ClientSampleId :

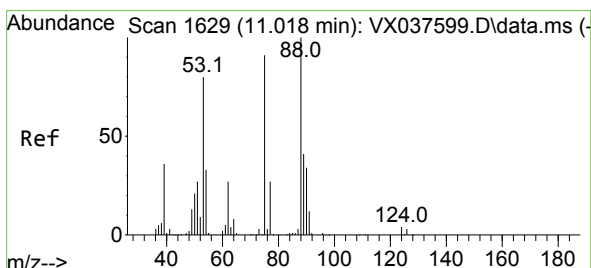
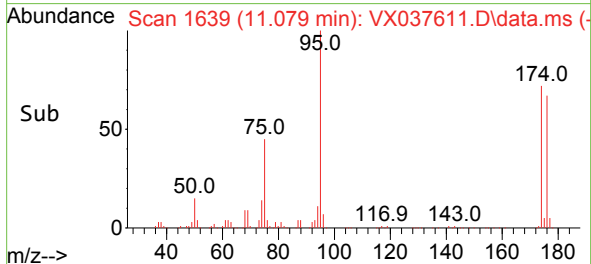
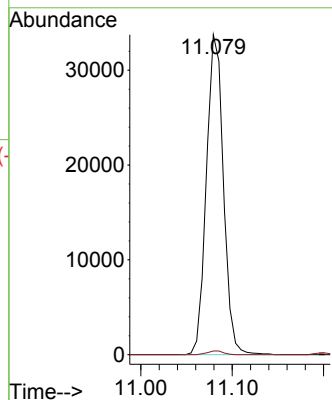
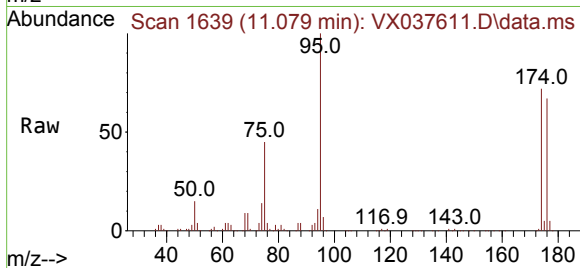
PB155394ZHE#03

Tgt Ion: 75 Resp: 43651

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.349 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

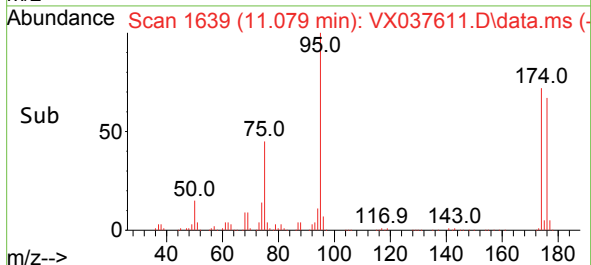
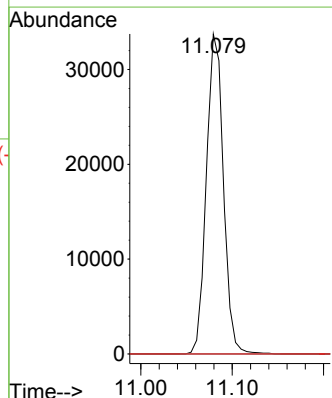
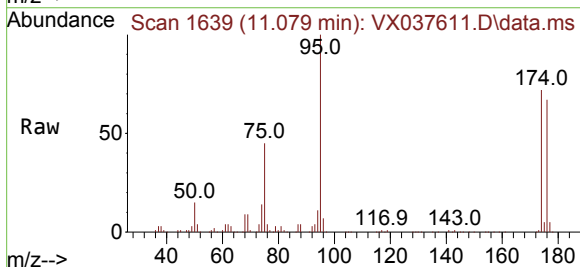
Tgt Ion: 75 Resp: 43651

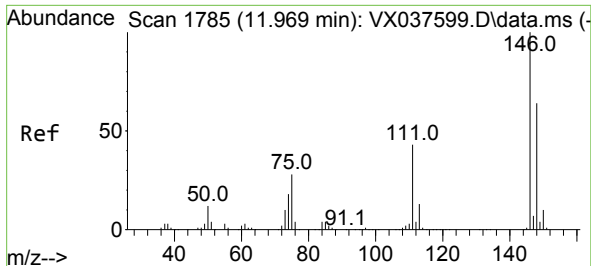
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#87

1,3-Dichlorobenzene

Concen: 0.203 ug/l

RT: 11.969 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX037611.D

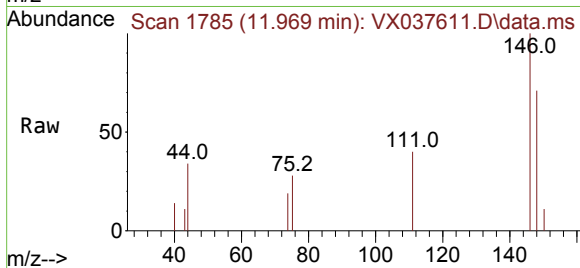
Acq: 08 Sep 2023 19:03

Instrument :

MSVOA_X

ClientSampleId :

PB155394ZHE#03



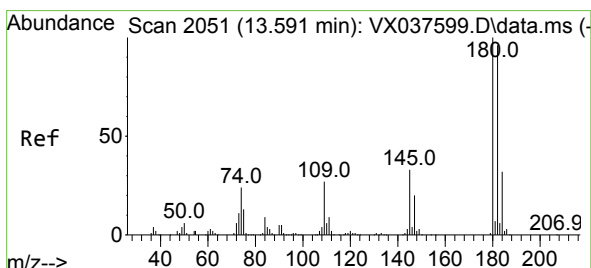
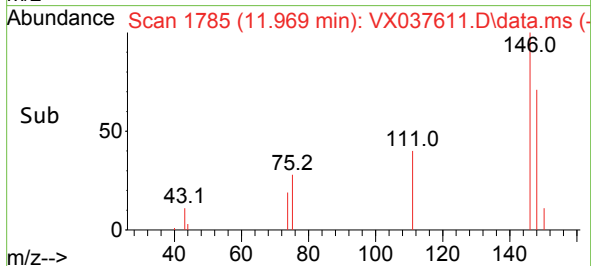
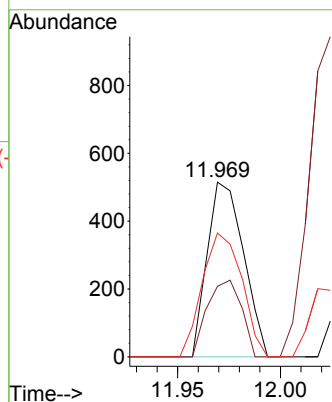
Tgt Ion:146 Resp: 631

Ion Ratio Lower Upper

146 100

111 41.2 22.1 66.1

148 77.3 31.8 95.3



#93

1,2,4-Trichlorobenzene

Concen: 0.289 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. -0.000 min

Lab File: VX037611.D

Acq: 08 Sep 2023 19:03

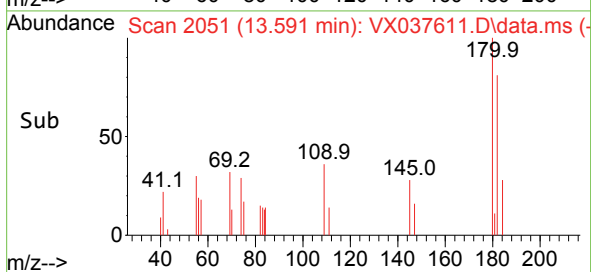
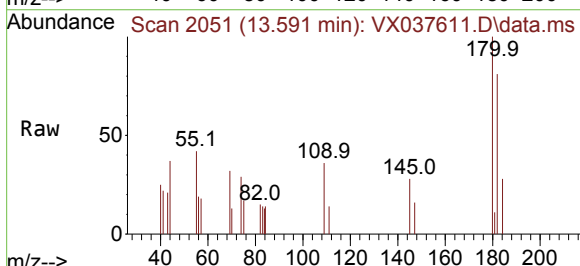
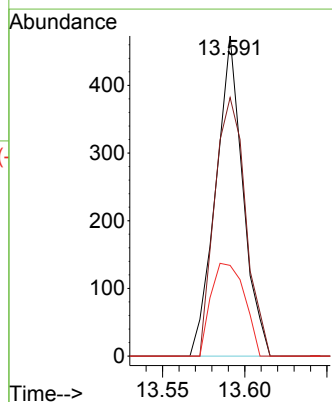
Tgt Ion:180 Resp: 542

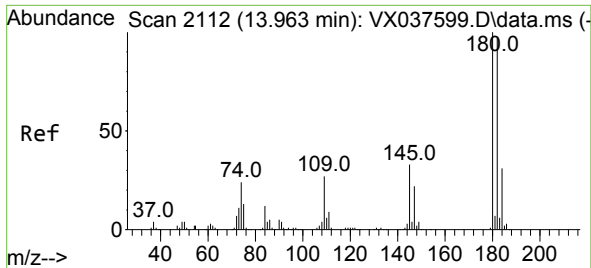
Ion Ratio Lower Upper

180 100

182 92.3 48.3 144.8

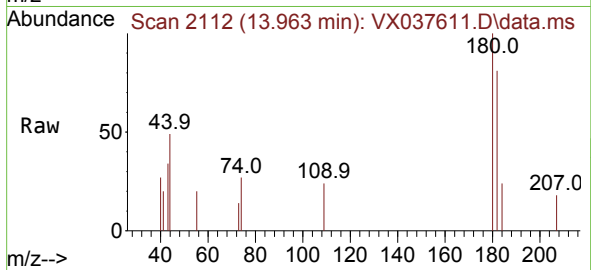
145 35.8 18.0 54.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.232 ug/l
 RT: 13.963 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VX037611.D
 Acq: 08 Sep 2023 19:03

Instrument :
 MSVOA_X
 ClientSampleId :
 PB155394ZHE#03



Tgt Ion:180 Resp: 450
 Ion Ratio Lower Upper
 180 100
 182 86.4 46.9 140.6
 145 4.7 17.8 53.5#

