

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010924\
 Data File : VX039677.D
 Acq On : 09 Jan 2024 14:05
 Operator : JC/MD
 Sample : P1047-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 05:34:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jan 09 06:15:26 2024
 Response via : Initial Calibration

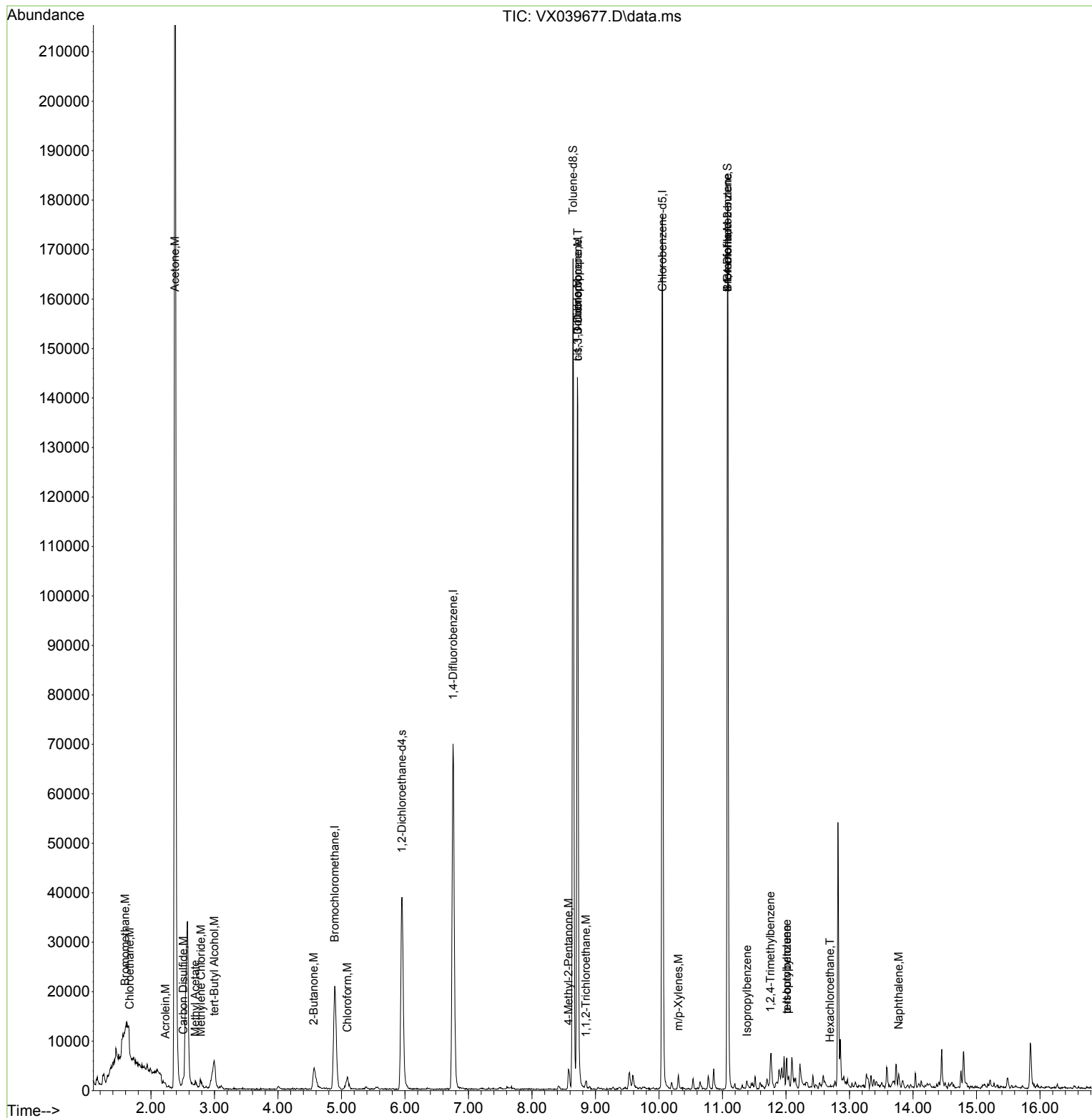
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.891	128	7903	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	68489	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	80122	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	38218	30.847	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.833%
60) 4-Bromofluorobenzene	11.079	95	50579	28.621	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.400%
63) Toluene-d8	8.647	98	97493	29.596	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.667%
Target Compounds						
					Qvalue	
5) Bromomethane	1.593	94	161	0.233	ug/l #	45
6) Chloroethane	1.666	64	829	1.258	ug/l #	43
12) Methyl Acetate	2.697	43	1234	0.639	ug/l #	76
13) Acrolein	2.227	56	118	0.409	ug/l #	1
15) Acetone	2.380	58	91583	327.670	ug/l	98
16) Carbon Disulfide	2.508	76	1933	0.598	ug/l #	92
18) Methylene Chloride	2.788	84	672	0.479	ug/l #	81
23) tert-Butyl Alcohol	2.995	59	6655	16.033	ug/l #	100
25) Chloroform	5.093	83	2377	0.939	ug/l	85
30) 2-Butanone	4.562	43	4865	3.451	ug/l #	79
48) t-1,3-Dichloropropene	8.720	75	726	0.343	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	726	0.313	ug/l #	1
50) 1,1,2-Trichloroethane	8.848	97	1148	0.789	ug/l #	14
56) Bromoform	11.079	173	261	0.286	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	3245	1.231	ug/l #	88
62) Toluene	8.714	91	92792	15.622	ug/l	99
67) m/p-Xylenes	10.305	106	762	0.320	ug/l	85
70) Isopropylbenzene	11.384	105	1511	0.239	ug/l	97
77) t-1,4-Dichloro-2-butene	11.079	75	27777	41.735	ug/l #	12
79) tert-butylbenzene	12.012	119	2634	0.515	ug/l	65
80) 1,2,4-Trimethylbenzene	11.756	105	2393	0.447	ug/l	82
82) p-Isopropyltoluene	12.012	119	2634	0.504	ug/l	98
86) Hexachloroethane	12.695	117	243	0.272	ug/l #	18
91) Naphthalene	13.774	128	1632	0.284	ug/l #	89

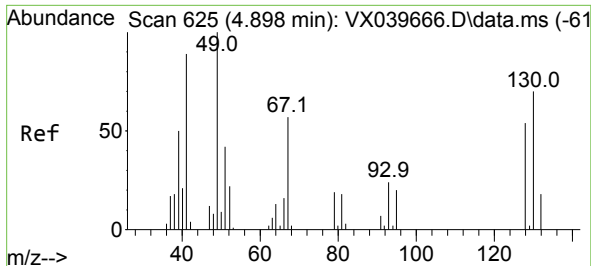
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
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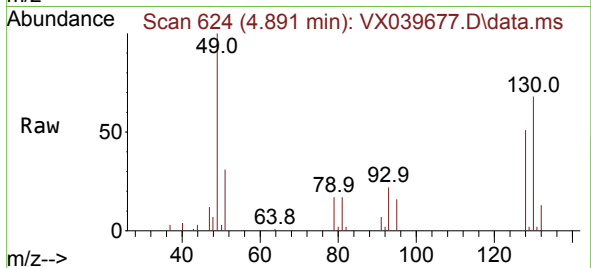
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Jan 09 06:15:26 2024
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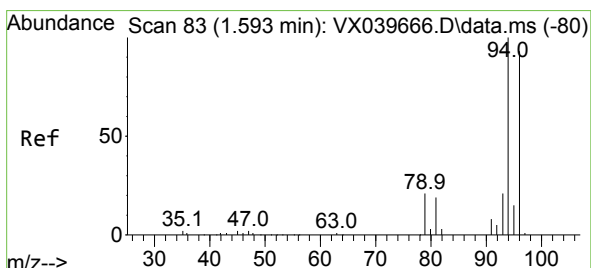
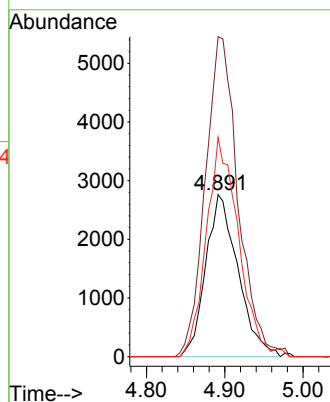
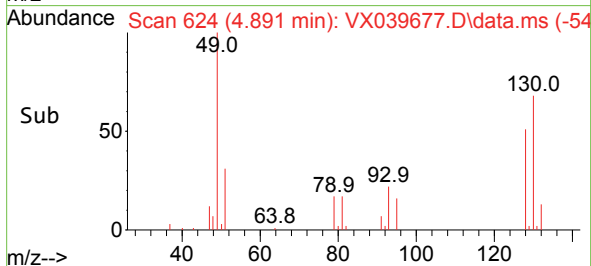


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.007 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

Instrument :
MSVOA_X
ClientSampleId :

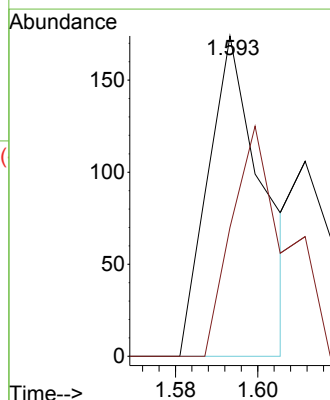
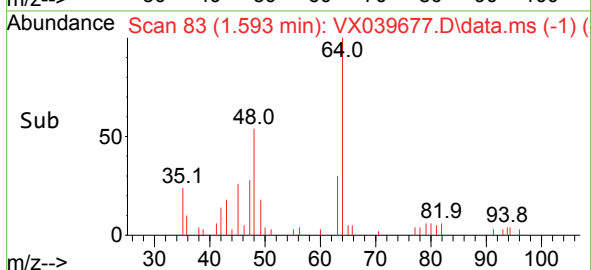
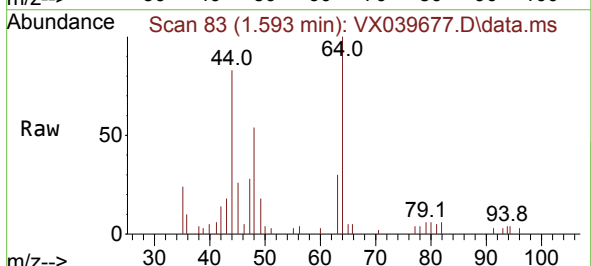


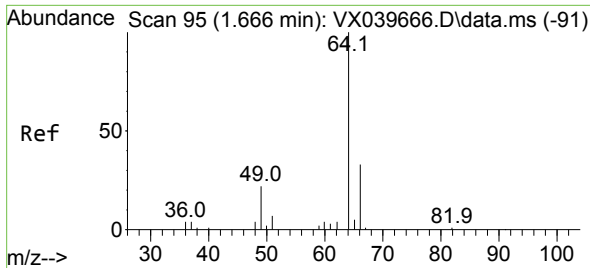
Tgt Ion:128 Resp: 7903
Ion Ratio Lower Upper
128 100
49 200.2 0.0 444.0
130 134.0 0.0 297.8



#5
Bromomethane
Concen: 0.233 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

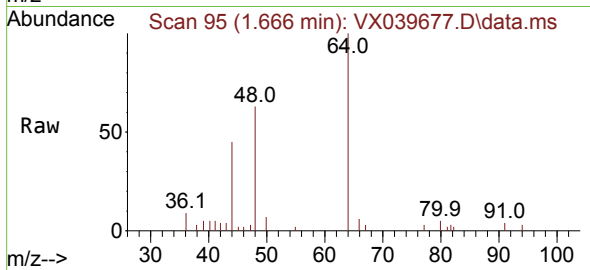
Tgt Ion: 94 Resp: 161
Ion Ratio Lower Upper
94 100
96 40.2 74.9 112.3#



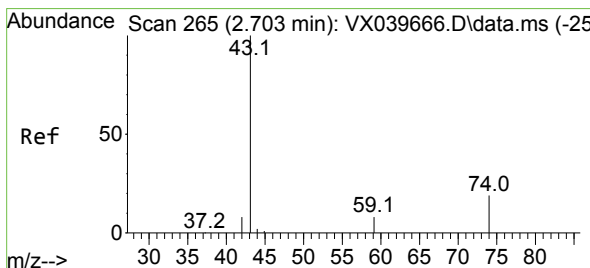
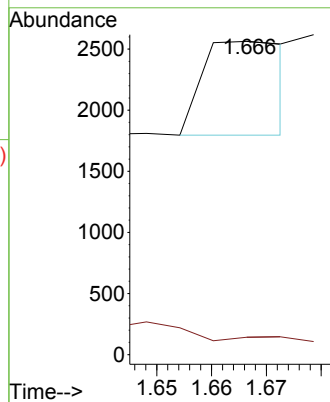
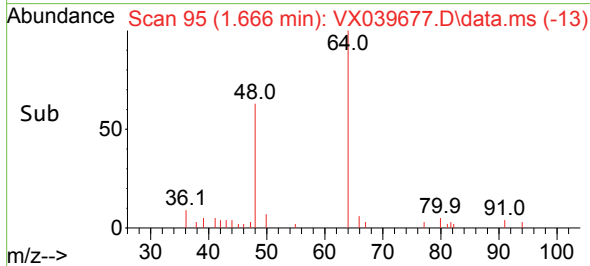


#6
Chloroethane
Concen: 1.258 ug/l
RT: 1.666 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

Instrument :
MSVOA_X
ClientSampleId :

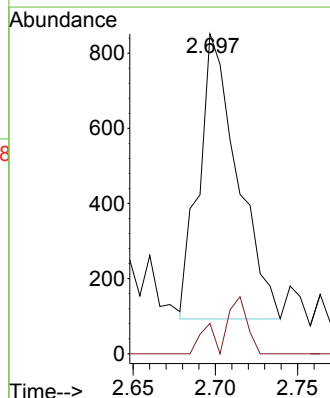
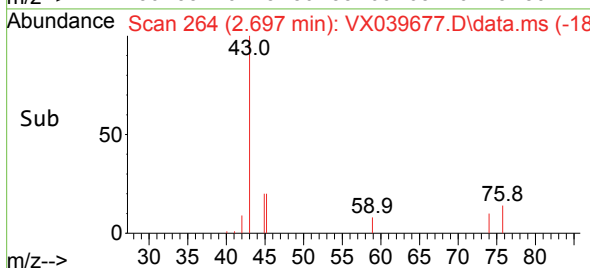
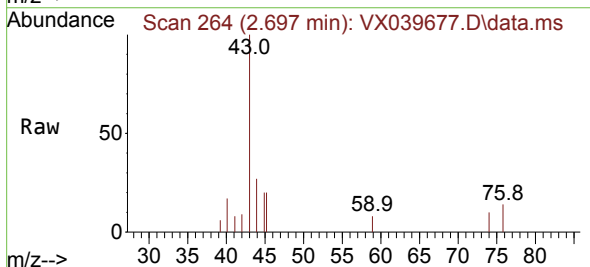


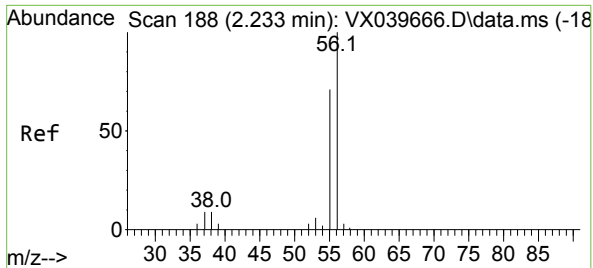
Tgt Ion: 64 Resp: 829
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.6#



#12
Methyl Acetate
Concen: 0.639 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

Tgt Ion: 43 Resp: 1234
Ion Ratio Lower Upper
43 100
74 10.8 17.8 26.6#

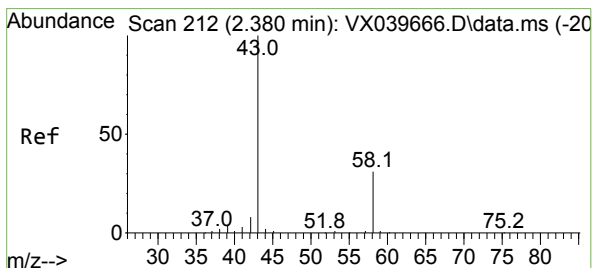
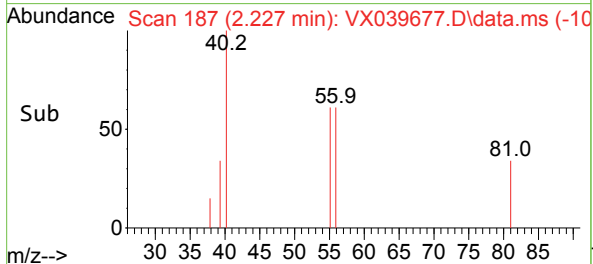
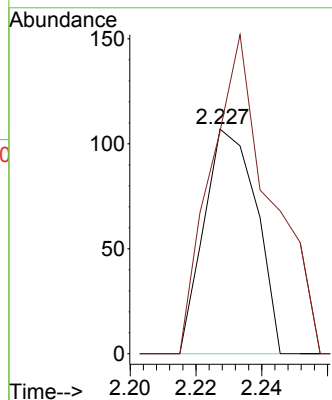
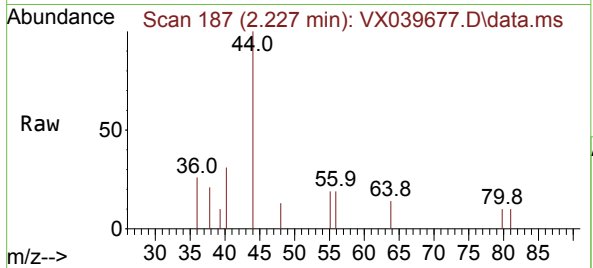




#13
Acrolein
Concen: 0.409 ug/l
RT: 2.227 min Scan# 118
Delta R.T. -0.006 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

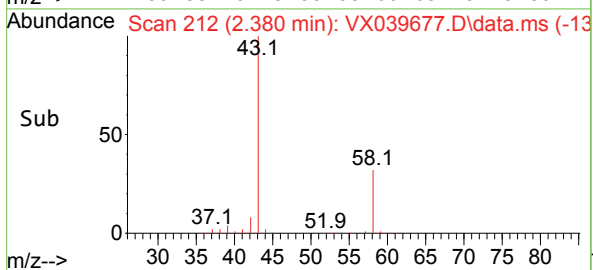
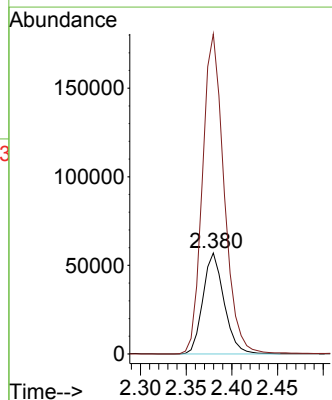
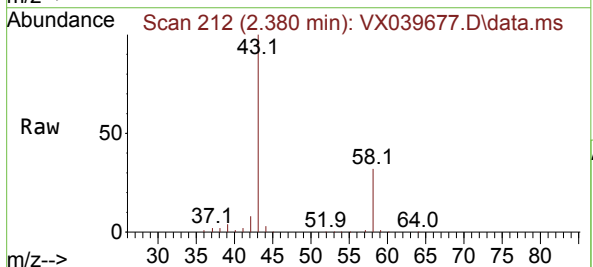
Instrument :
MSVOA_X
ClientSampleId :

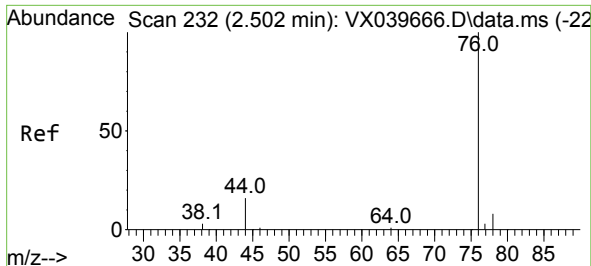
Tgt Ion: 56 Resp: 118
Ion Ratio Lower Upper
56 100
55 162.7 57.2 85.8#



#15
Acetone
Concen: 327.670 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

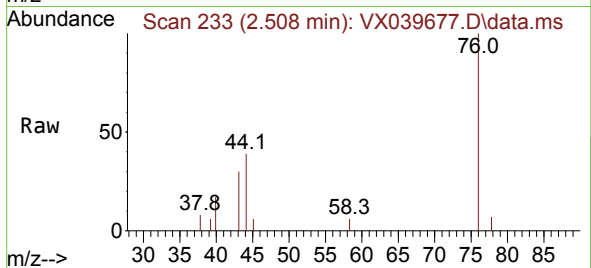
Tgt Ion: 58 Resp: 91583
Ion Ratio Lower Upper
58 100
43 316.8 249.9 374.9



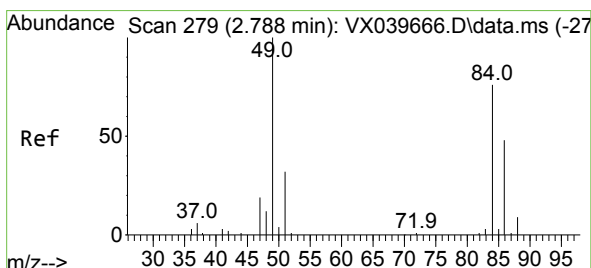
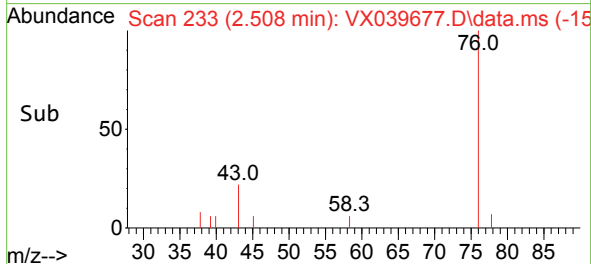
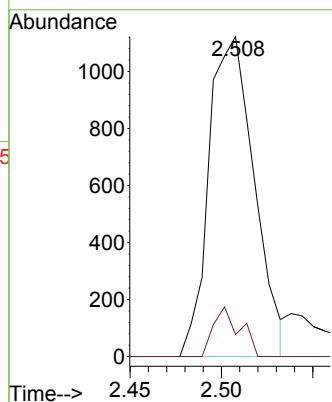


#16
Carbon Disulfide
Concen: 0.598 ug/l
RT: 2.508 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

Instrument :
MSVOA_X
ClientSampleId :

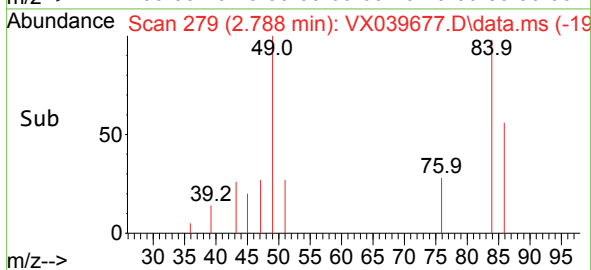
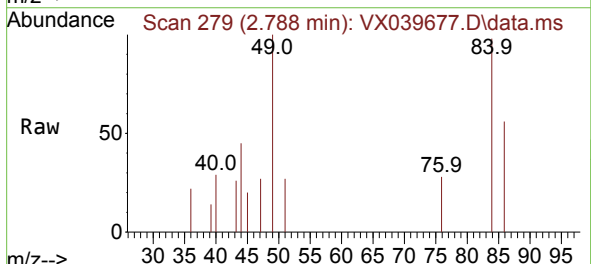
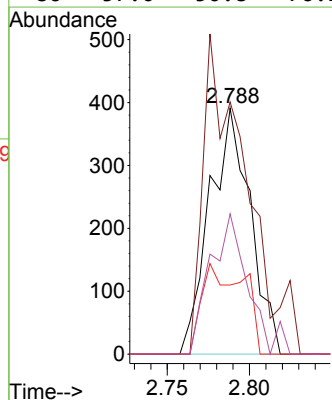


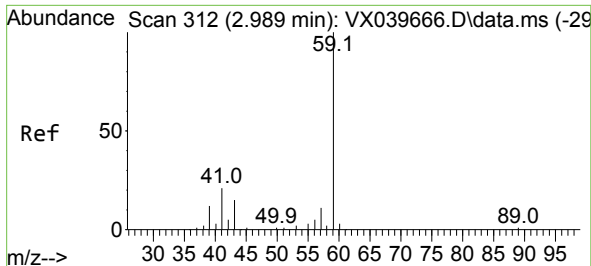
Tgt Ion: 76 Resp: 1933
Ion Ratio Lower Upper
76 100
78 6.9 8.0 12.0#



#18
Methylene Chloride
Concen: 0.479 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

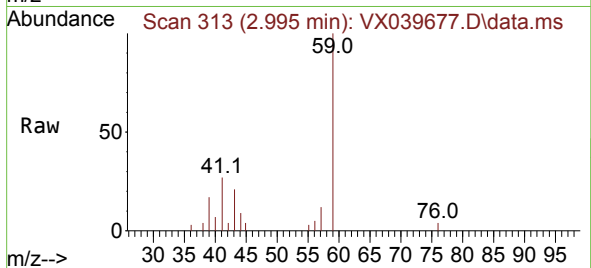
Tgt Ion: 84 Resp: 672
Ion Ratio Lower Upper
84 100
49 102.6 103.8 155.8#
51 28.1 31.8 47.6#
86 57.0 50.8 76.2



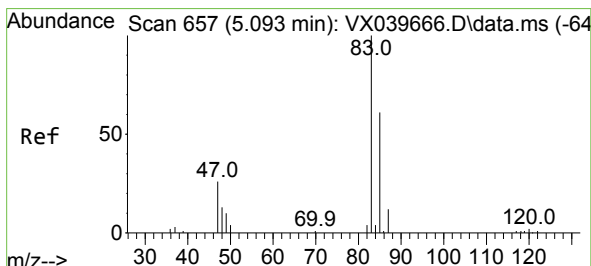
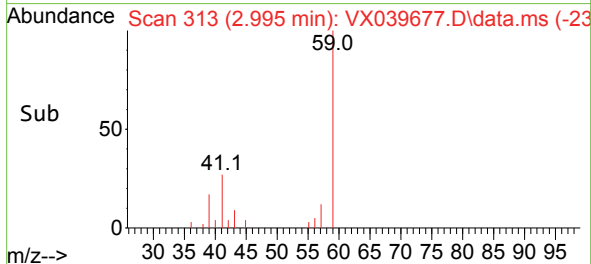
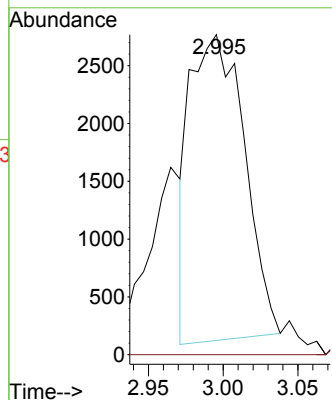


#23
tert-Butyl Alcohol
Concen: 16.033 ug/l
RT: 2.995 min Scan# 312
Delta R.T. 0.006 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

Instrument :
MSVOA_X
ClientSampleId :

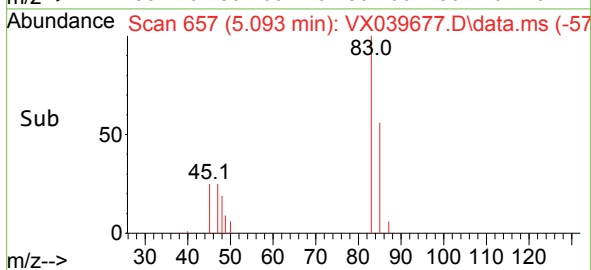
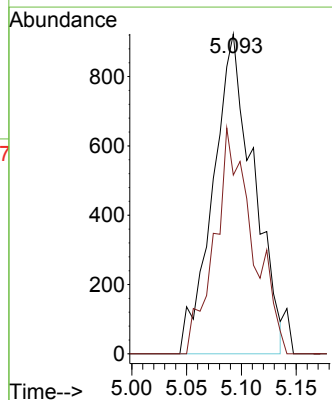
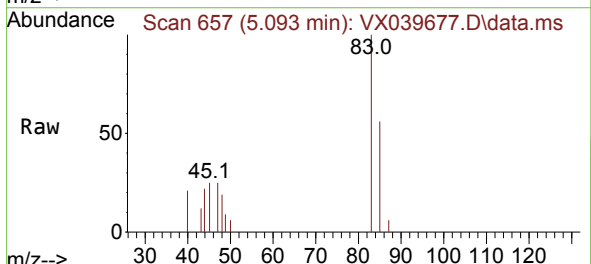


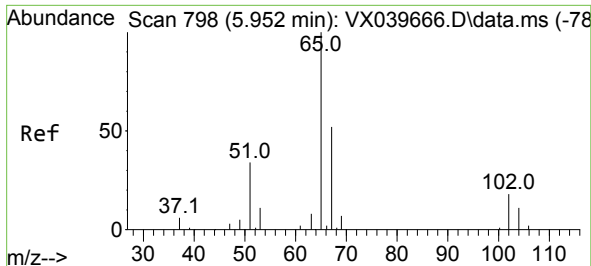
Tgt Ion: 59 Resp: 6655
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 0.939 ug/l
RT: 5.093 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

Tgt Ion: 83 Resp: 2377
Ion Ratio Lower Upper
83 100
85 55.9 54.6 81.8





#27

1,2-Dichloroethane-d4

Concen: 30.847 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX039677.D

Acq: 09 Jan 2024 14:05

Instrument :

MSVOA_X

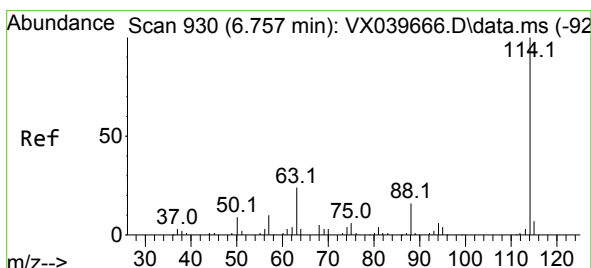
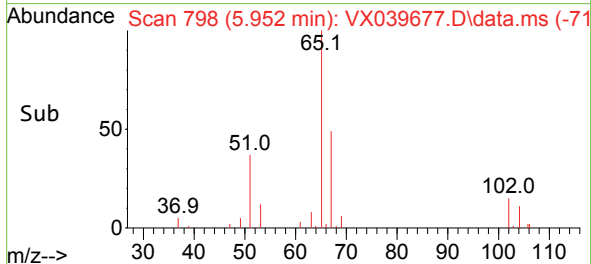
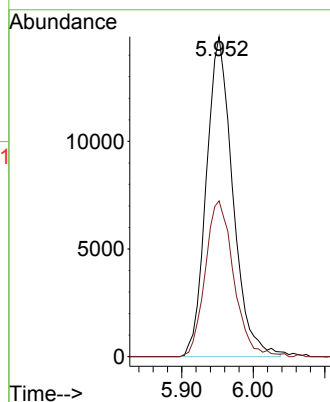
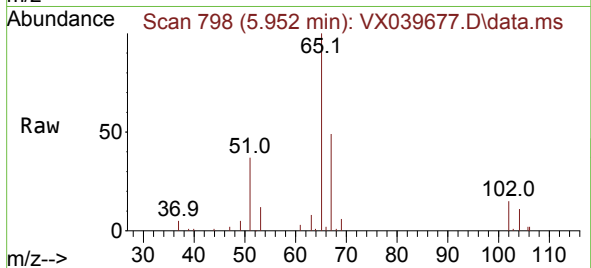
ClientSampleId :

Tgt Ion: 65 Resp: 38218

Ion Ratio Lower Upper

65 100

67 52.3 42.5 63.7



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX039677.D

Acq: 09 Jan 2024 14:05

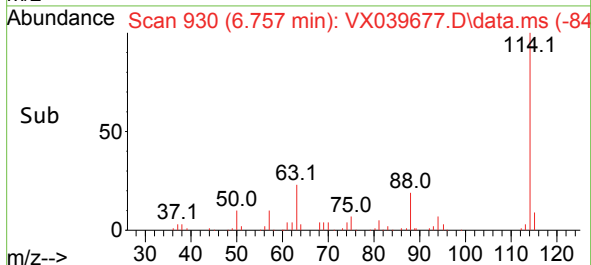
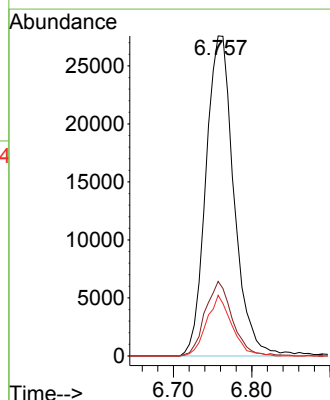
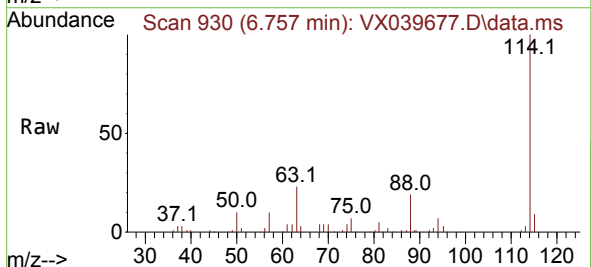
Tgt Ion: 114 Resp: 68489

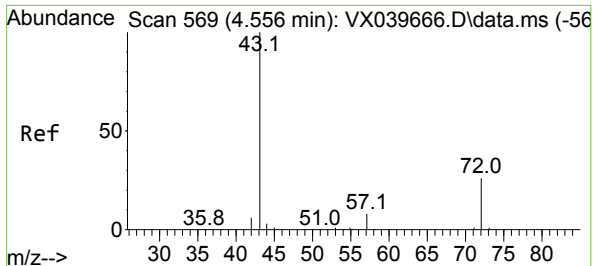
Ion Ratio Lower Upper

114 100

63 22.4 17.0 25.4

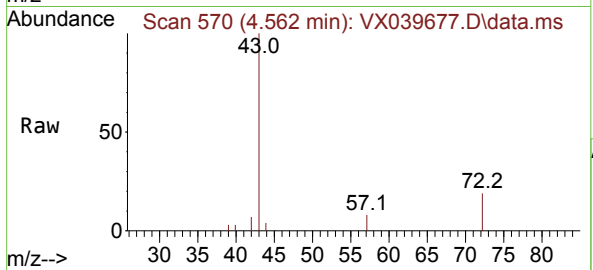
88 17.1 12.7 19.1



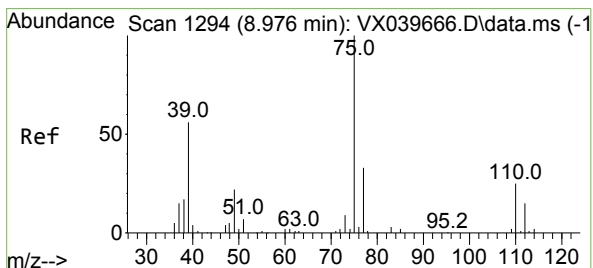
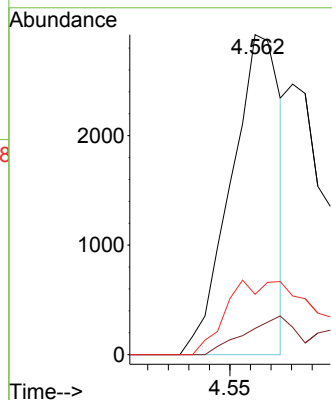
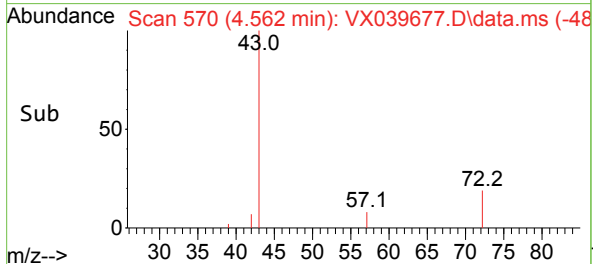


#30
2-Butanone
Concen: 3.451 ug/l
RT: 4.562 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

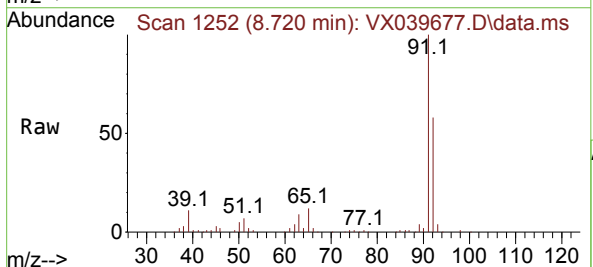
Instrument :
MSVOA_X
ClientSampleId :



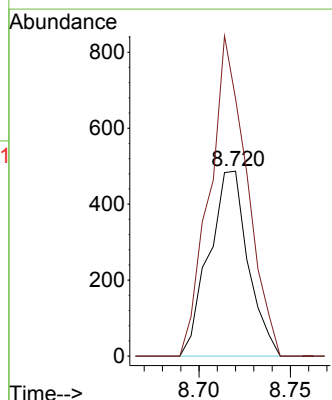
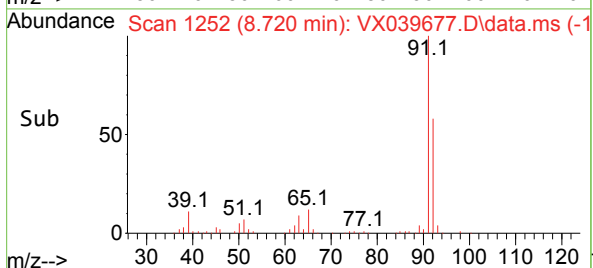
Tgt Ion: 43 Resp: 4865
Ion Ratio Lower Upper
43 100
57 0.0 6.6 10.0#
72 15.7 20.6 31.0#

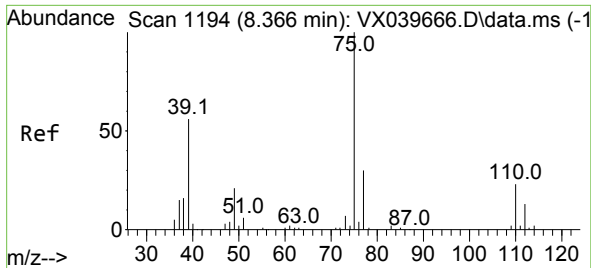


#48
t-1,3-Dichloropropene
Concen: 0.343 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.256 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05



Tgt Ion: 75 Resp: 726
Ion Ratio Lower Upper
75 100
77 139.2 26.8 40.2#





#49

cis-1,3-Dichloropropene

Concen: 0.313 ug/l

RT: 8.720 min Scan# 1194

Delta R.T. 0.354 min

Lab File: VX039677.D

Acq: 09 Jan 2024 14:05

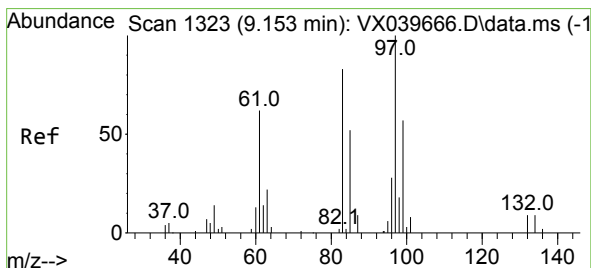
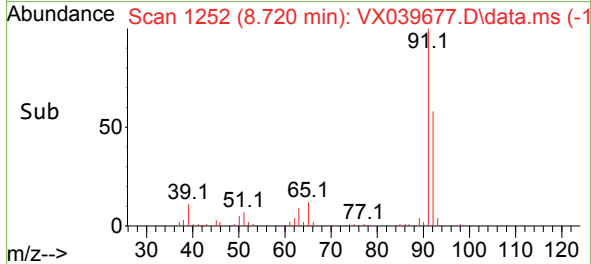
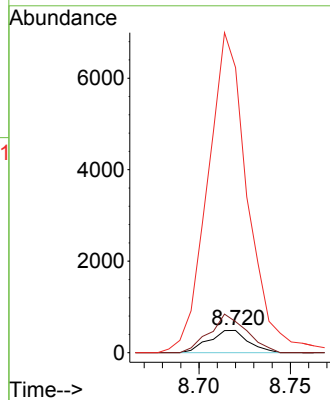
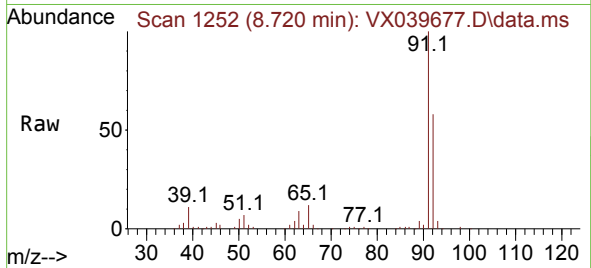
Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 75 Resp: 726

Ion	Ratio	Lower	Upper
75	100		
77	139.2	24.4	36.6#
39	1224.6	40.6	60.8#



#50

1,1,2-Trichloroethane

Concen: 0.789 ug/l

RT: 8.848 min Scan# 1273

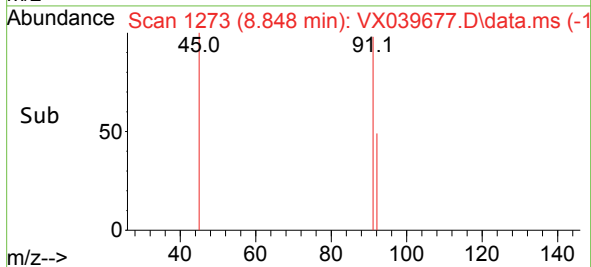
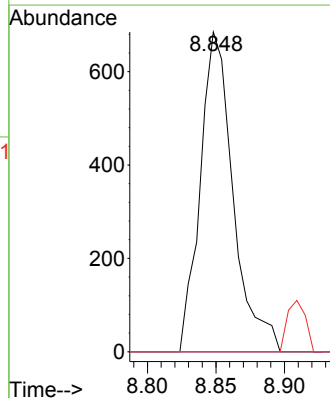
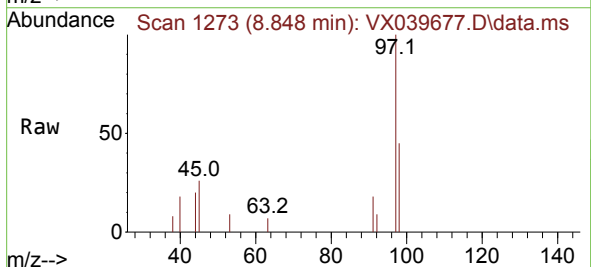
Delta R.T. -0.305 min

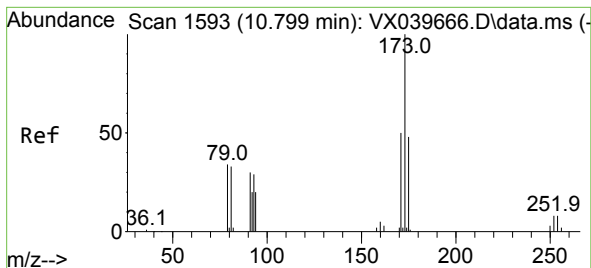
Lab File: VX039677.D

Acq: 09 Jan 2024 14:05

Tgt Ion: 97 Resp: 1148

Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.0	103.6#
85	0.0	46.3	69.5#
99	0.0	50.9	76.3#





#56

Bromoform

Concen: 0.286 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.280 min

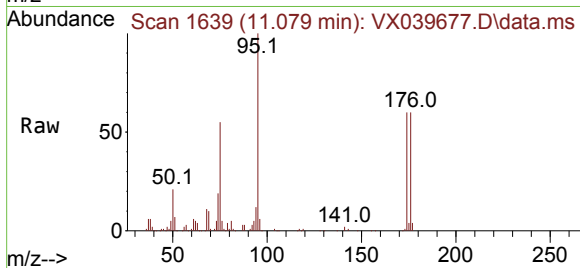
Lab File: VX039677.D

Acq: 09 Jan 2024 14:05

Instrument :

MSVOA_X

ClientSampleId :



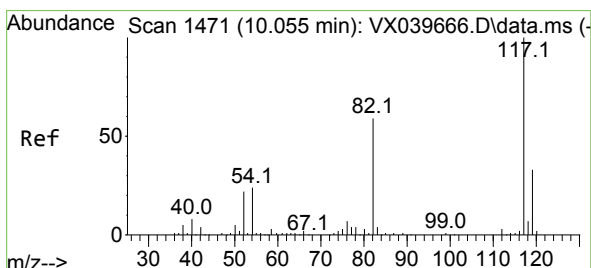
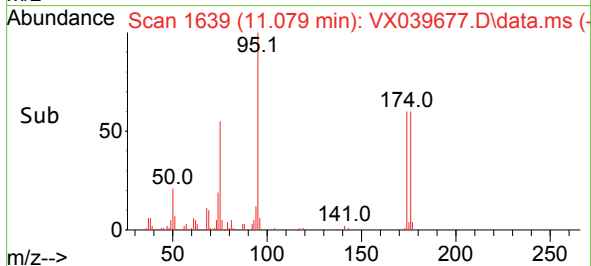
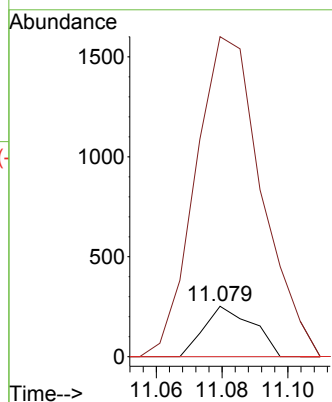
Tgt Ion:173 Resp: 261

Ion Ratio Lower Upper

173 100

175 860.9 37.6 56.4#

254 0.0 5.8 8.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX039677.D

Acq: 09 Jan 2024 14:05

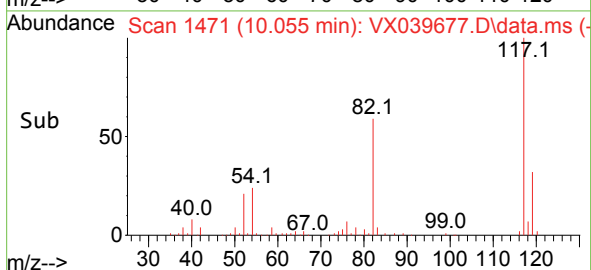
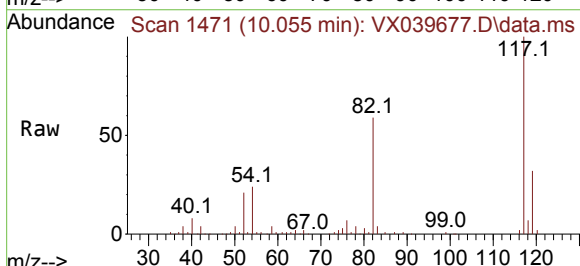
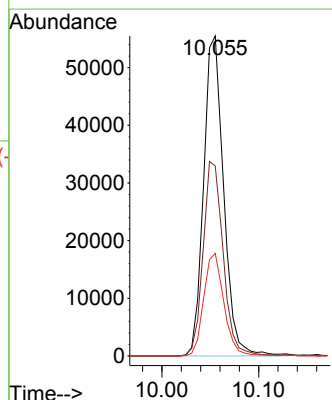
Tgt Ion:117 Resp: 80122

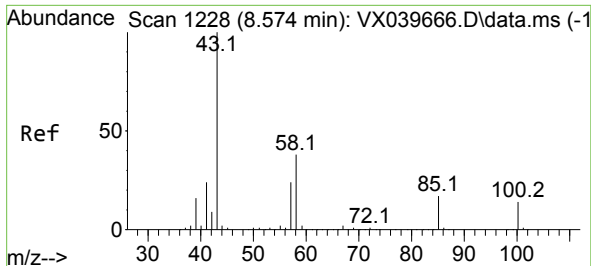
Ion Ratio Lower Upper

117 100

82 61.0 47.0 70.6

119 32.3 25.2 37.8

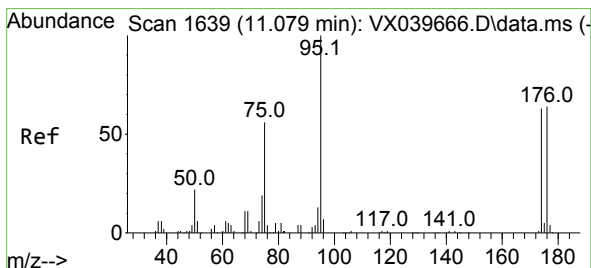
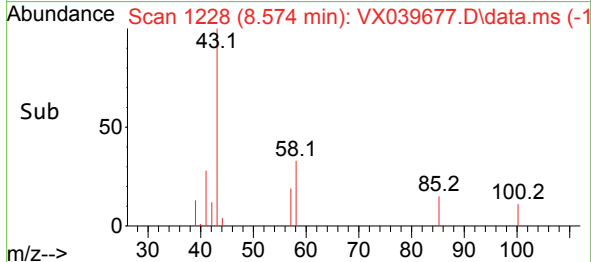
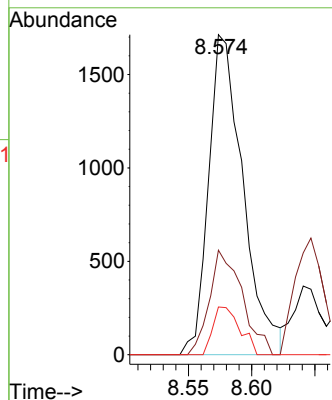
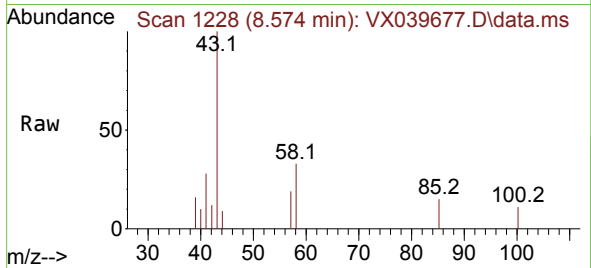




#58
4-Methyl-2-Pentanone
Concen: 1.231 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

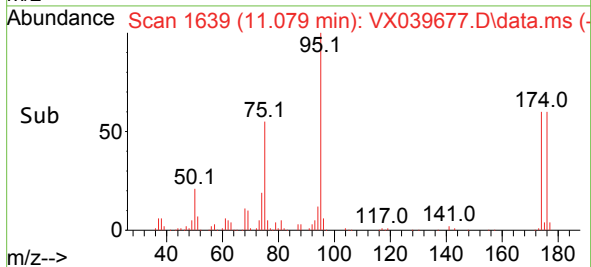
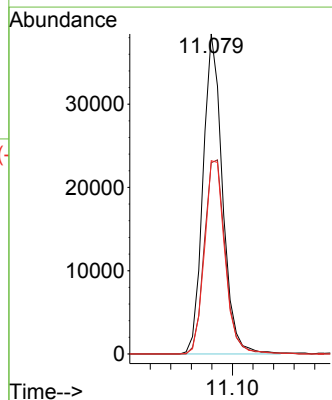
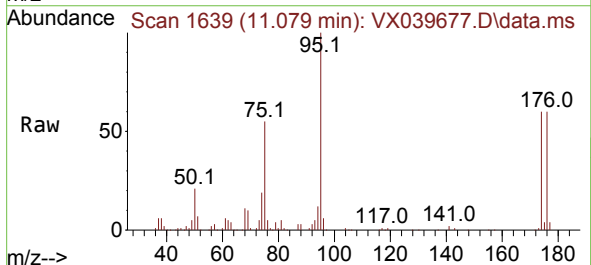
Instrument :
MSVOA_X
ClientSampleId :

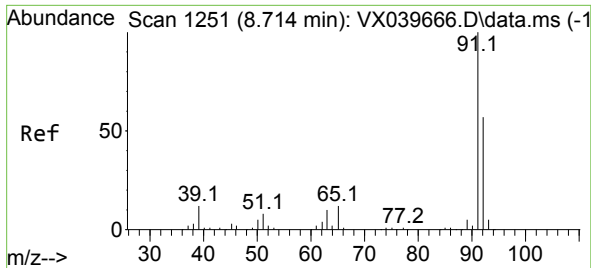
Tgt Ion: 43 Resp: 3245
Ion Ratio Lower Upper
43 100
58 31.1 30.1 45.1
85 11.7 13.9 20.9#



#60
4-Bromofluorobenzene
Concen: 28.621 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

Tgt Ion: 95 Resp: 50579
Ion Ratio Lower Upper
95 100
174 64.9 55.4 83.2
176 63.6 52.6 78.8

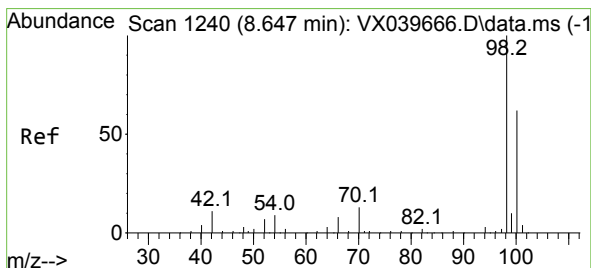
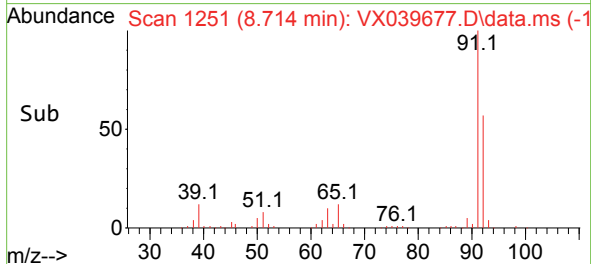
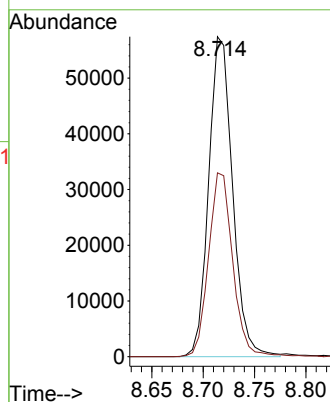
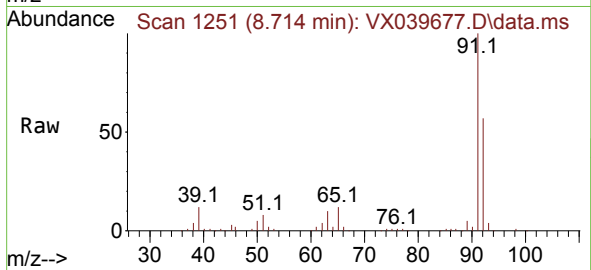




#62
Toluene
Concen: 15.622 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

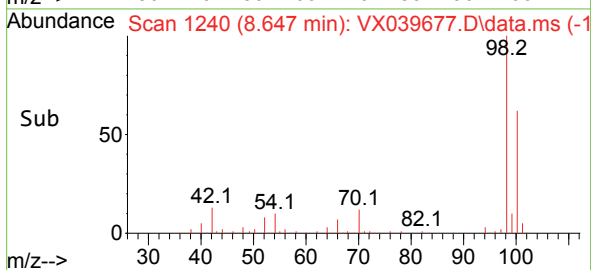
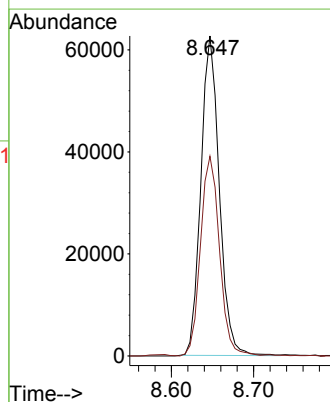
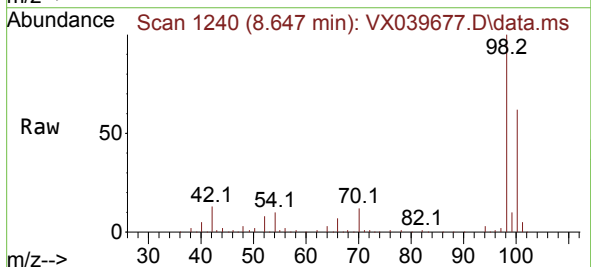
Instrument :
MSVOA_X
ClientSampleId :

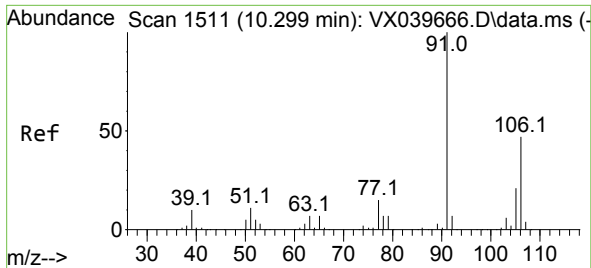
Tgt Ion: 91 Resp: 92792
Ion Ratio Lower Upper
91 100
92 58.1 45.9 68.9



#63
Toluene-d8
Concen: 29.596 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

Tgt Ion: 98 Resp: 97493
Ion Ratio Lower Upper
98 100
100 64.6 51.0 76.4

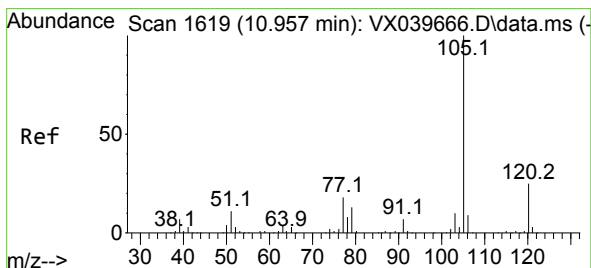
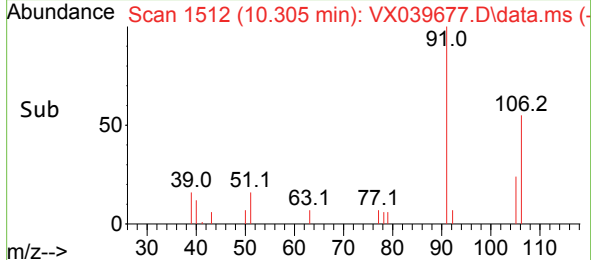
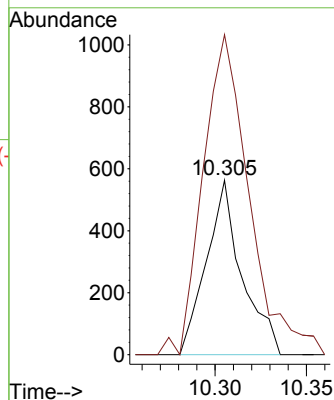
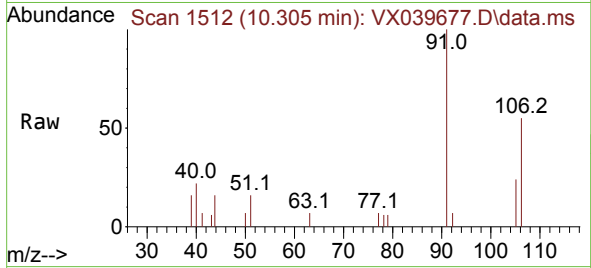




#67
m/p-Xylenes
Concen: 0.320 ug/l
RT: 10.305 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

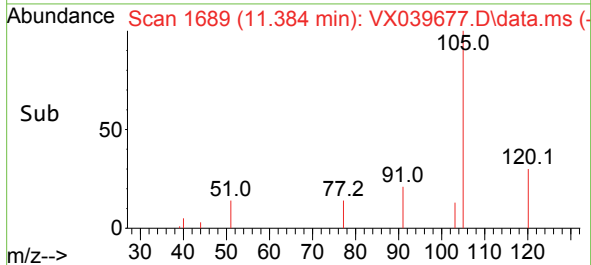
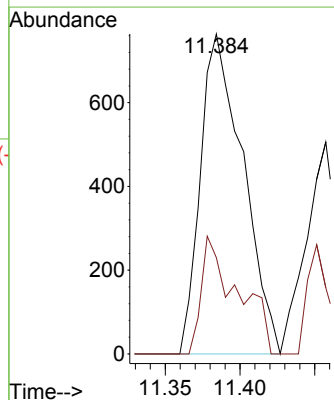
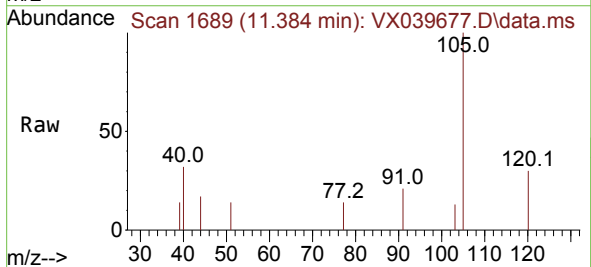
Instrument :
MSVOA_X
ClientSampleId :

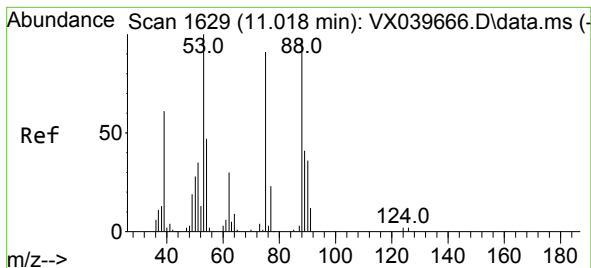
Tgt Ion:106 Resp: 762
Ion Ratio Lower Upper
106 100
91 235.8 169.4 254.0



#70
Isopropylbenzene
Concen: 0.239 ug/l
RT: 11.384 min Scan# 1689
Delta R.T. 0.427 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

Tgt Ion:105 Resp: 1511
Ion Ratio Lower Upper
105 100
120 24.6 18.5 34.3

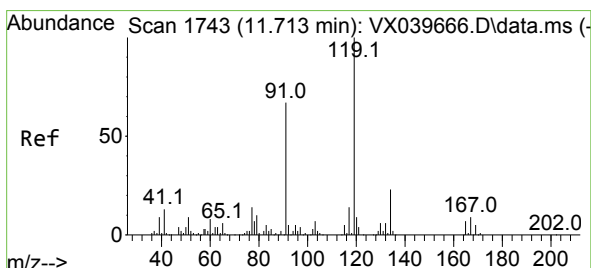
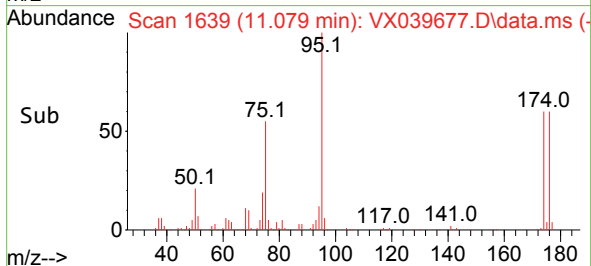
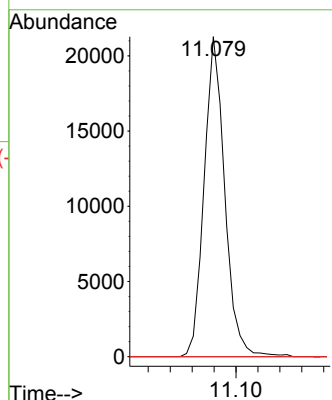
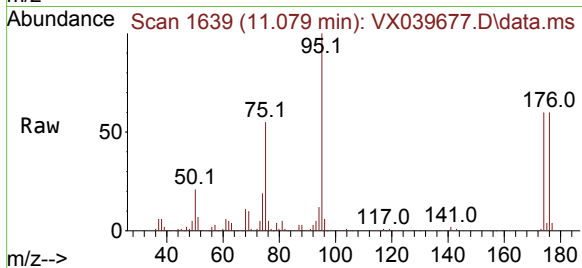




#77
 t-1,4-Dichloro-2-butene
 Concen: 41.735 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX039677.D
 Acq: 09 Jan 2024 14:05

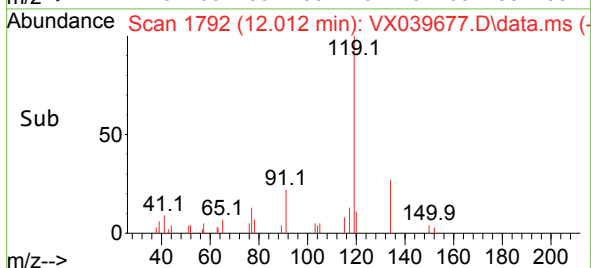
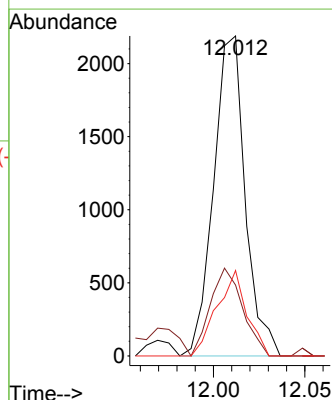
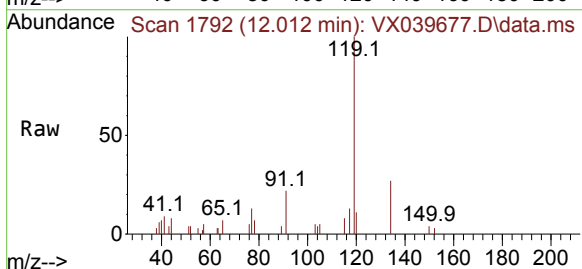
Instrument :
 MSVOA_X
 ClientSampleId :

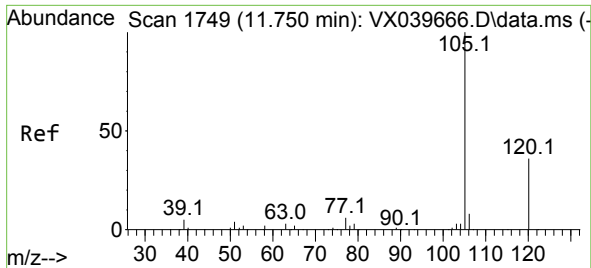
Tgt Ion: 75 Resp: 27777
 Ion Ratio Lower Upper
 75 100
 53 0.0 46.9 140.8#
 89 0.0 21.3 63.7#



#79
 tert-butylbenzene
 Concen: 0.515 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.299 min
 Lab File: VX039677.D
 Acq: 09 Jan 2024 14:05

Tgt Ion: 119 Resp: 2634
 Ion Ratio Lower Upper
 119 100
 91 28.1 0.0 125.6
 134 25.3 0.0 43.8

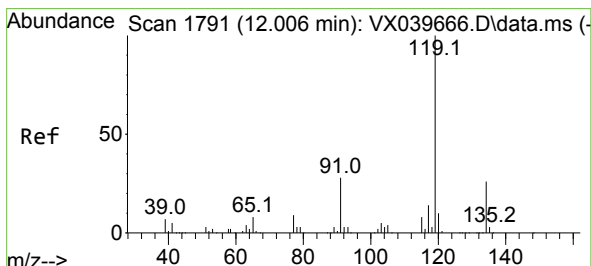
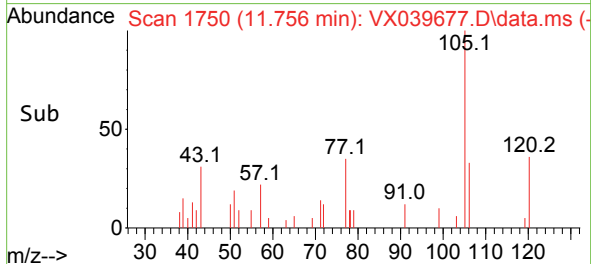
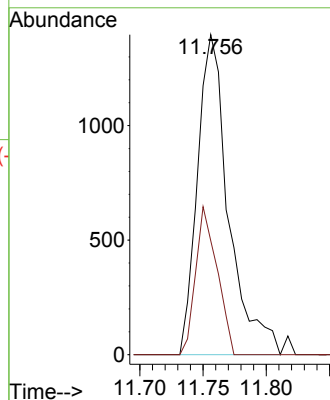
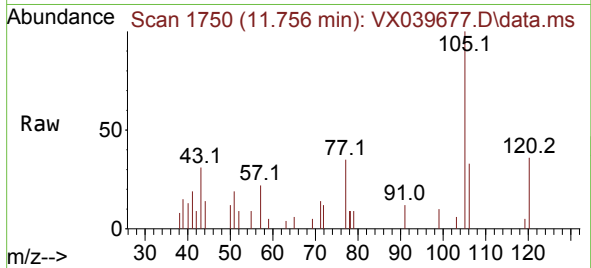




#80
1,2,4-Trimethylbenzene
Concen: 0.447 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

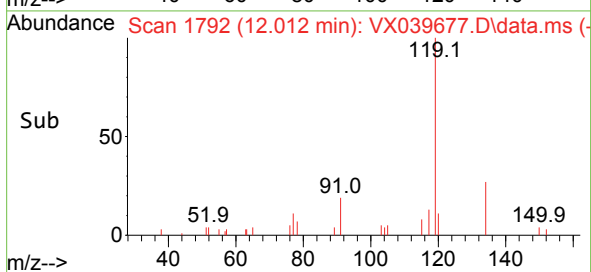
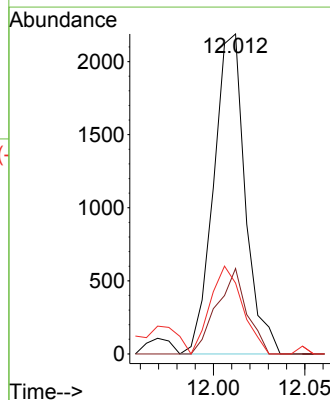
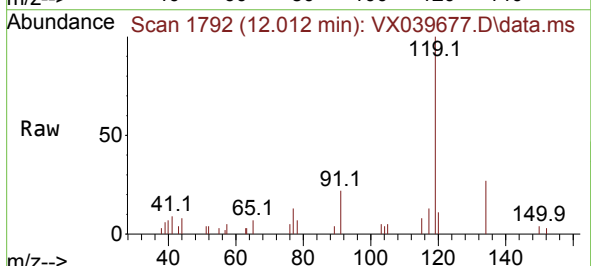
Instrument :
MSVOA_X
ClientSampleId :

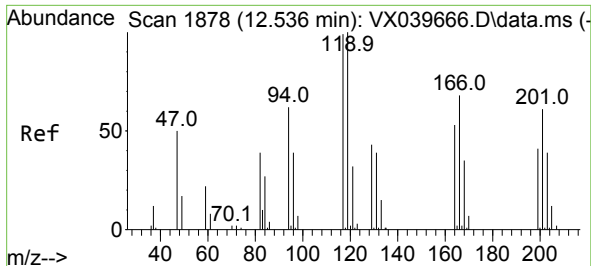
Tgt Ion:105 Resp: 2393
Ion Ratio Lower Upper
105 100
120 31.9 0.0 86.4



#82
p-Isopropyltoluene
Concen: 0.504 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

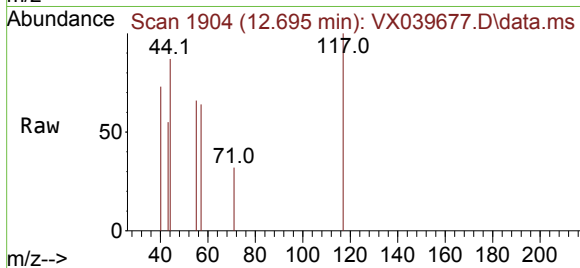
Tgt Ion:119 Resp: 2634
Ion Ratio Lower Upper
119 100
134 25.3 0.0 52.6
91 28.1 0.0 54.2



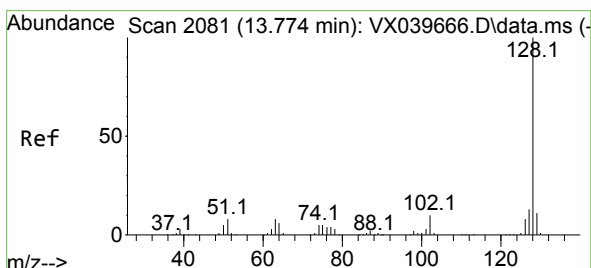
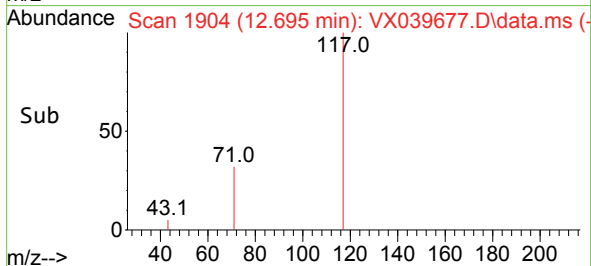
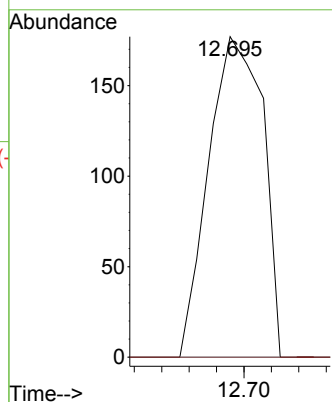


#86
Hexachloroethane
Concen: 0.272 ug/l
RT: 12.695 min Scan# 1904
Delta R.T. 0.159 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:117 Resp: 243
Ion Ratio Lower Upper
117 100
201 0.0 31.8 95.3#



#91
Naphthalene
Concen: 0.284 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX039677.D
Acq: 09 Jan 2024 14:05

Tgt Ion:128 Resp: 1632
Ion Ratio Lower Upper
128 100
127 6.6 10.2 15.2#
129 8.7 8.6 12.8

