

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121721\
 Data File : VX025855.D
 Acq On : 16 Dec 2021 15:07
 Operator : JC/MD
 Sample : M5084-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

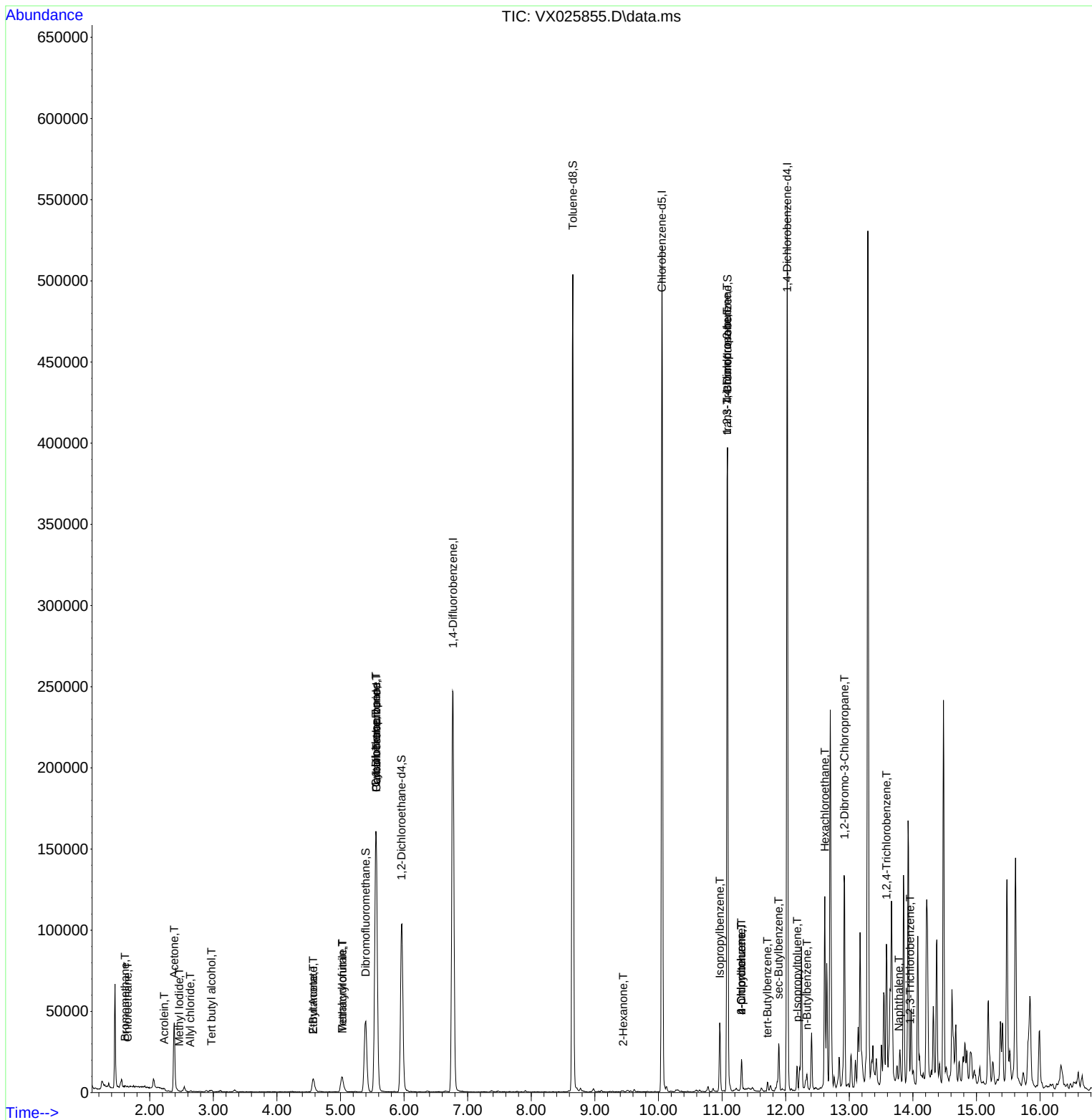
Quant Time: Dec 17 02:30:49 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121321W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 14 07:02:11 2021
 Response via : Initial Calibration

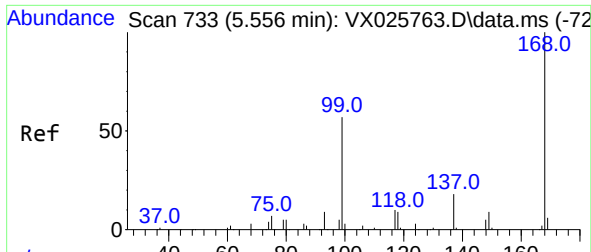
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.562	168	152557	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	260753	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	233783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	106490	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	98024	44.657	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	89.320%
35) Dibromofluoromethane	5.397	113	37960	20.874	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	41.740%#
50) Toluene-d8	8.653	98	300234	45.313	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	90.620%#
62) 4-Bromofluorobenzene	11.085	95	108317	43.036	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	86.080%
Target Compounds						
					Qvalue	
5) Bromomethane	1.611	94	417	0.309	ug/l #	78
6) Chloroethane	1.654	64	300	0.219	ug/l #	85
10) Methyl Iodide	2.465	142	511	0.247	ug/l #	91
11) Tert butyl alcohol	2.971	59	1030	2.339	ug/l #	79
13) Acrolein	2.227	56	143	0.475	ug/l	97
14) Allyl chloride	2.636	41	615	0.209	ug/l #	39
16) Acetone	2.386	43	43542	27.160	ug/l	97
25) 2-Butanone	4.568	43	14732	9.979	ug/l	93
29) Tetrahydrofuran	5.026	42	8807	9.383	ug/l	99
31) Cyclohexane	5.556	56	3869	1.449	ug/l #	17
36) 1,1-Dichloropropene	5.556	75	11629	4.716	ug/l #	52
37) Ethyl Acetate	4.568	43	14732	5.377	ug/l #	69
38) Carbon Tetrachloride	5.562	117	15417	5.373	ug/l #	15
41) Methacrylonitrile	5.032	41	5425	3.578	ug/l #	47
59) 2-Hexanone	9.445	43	522	0.238	ug/l	88
73) Isopropylbenzene	10.963	105	21208	2.744	ug/l	99
76) 1,2,3-Trichloropropane	11.079	75	55100	22.583	ug/l #	39
78) n-propylbenzene	11.305	91	11595	1.326	ug/l	98
79) 2-Chlorotoluene	11.305	91	11595	2.086	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	55100	70.014	ug/l #	10
82) 4-Chlorotoluene	11.305	91	11595	1.863	ug/l #	44
83) tert-Butylbenzene	11.713	119	2333	0.371	ug/l	84
85) sec-Butylbenzene	11.890	105	15295	2.025	ug/l	93
86) p-Isopropyltoluene	12.183	119	6836	1.078	ug/l	100
89) n-Butylbenzene	12.335	91	3517	0.665	ug/l	96
90) Hexachloroethane	12.616	117	5155	4.136	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	12.927	75	527	0.871	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.585	180	107	3.417	ug/l #	1
95) Naphthalene	13.780	128	3378	2.853	ug/l #	78
96) 1,2,3-Trichlorobenzene	13.957	180	68	3.024	ug/l #	1

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

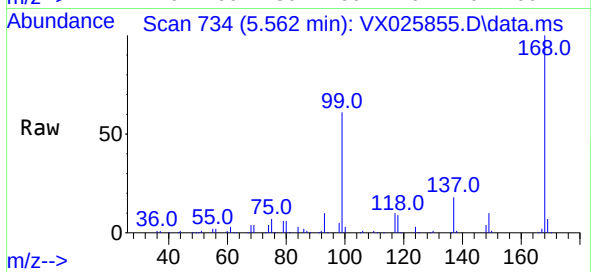
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121321W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 14 07:02:11 2021
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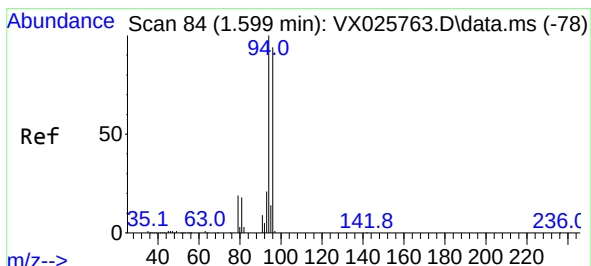
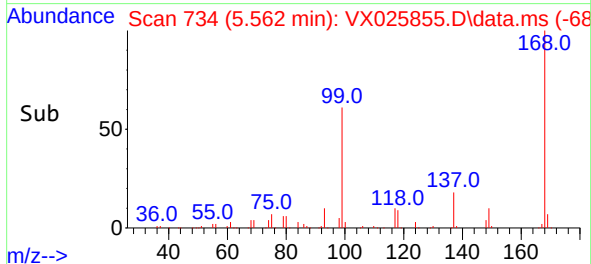
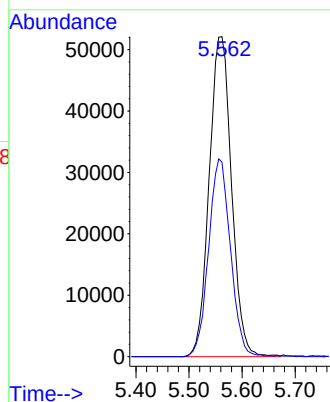


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Instrument :
MSVOA_X
ClientSampleId :

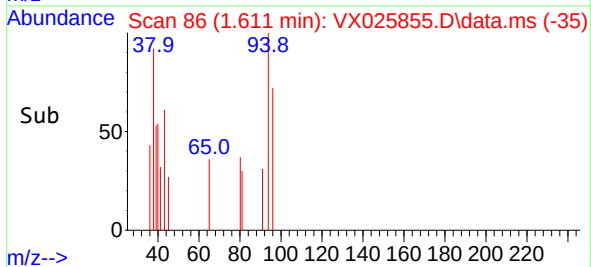
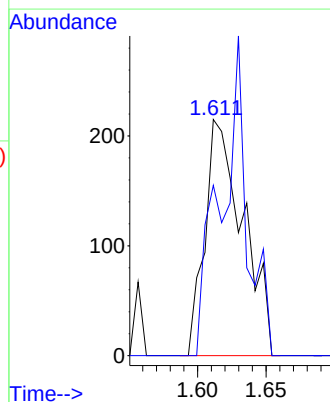
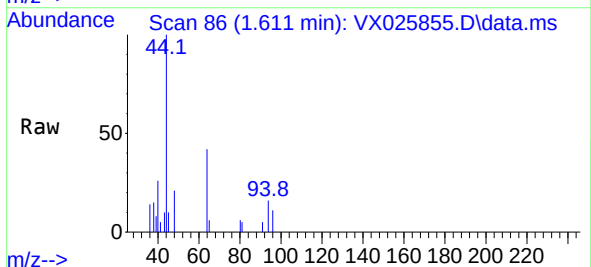


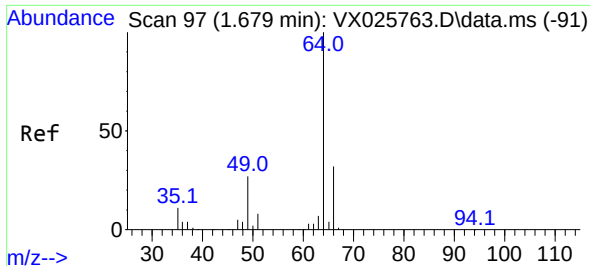
Tgt Ion:168 Resp: 152557
Ion Ratio Lower Upper
168 100
99 60.8 45.8 68.8



#5
Bromomethane
Concen: 0.309 ug/l
RT: 1.611 min Scan# 86
Delta R.T. 0.012 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Tgt Ion: 94 Resp: 417
Ion Ratio Lower Upper
94 100
96 72.1 75.0 112.4#

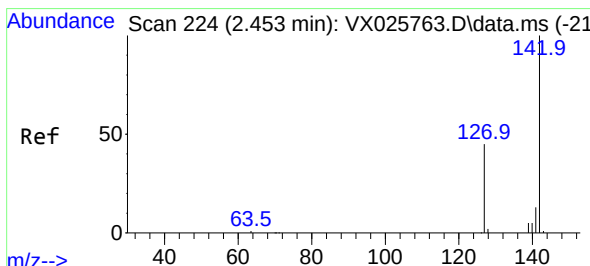
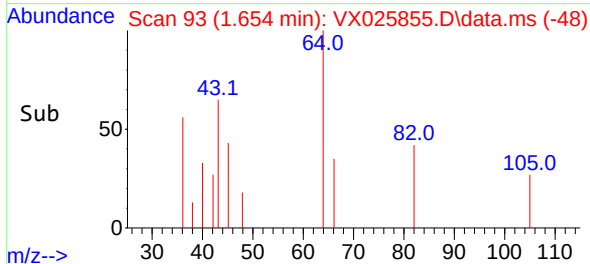
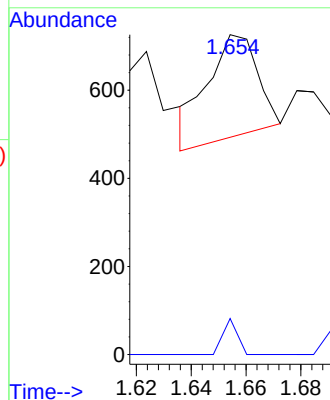
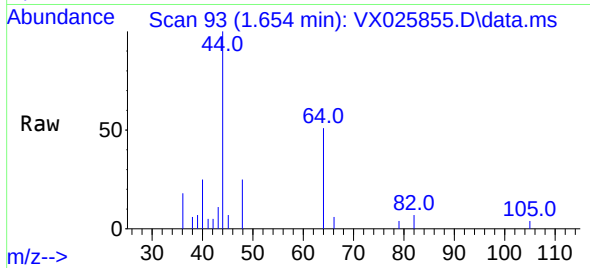




#6
Chloroethane
Concen: 0.219 ug/l
RT: 1.654 min Scan# 91
Delta R.T. -0.024 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

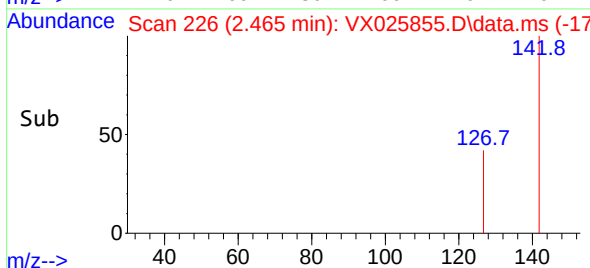
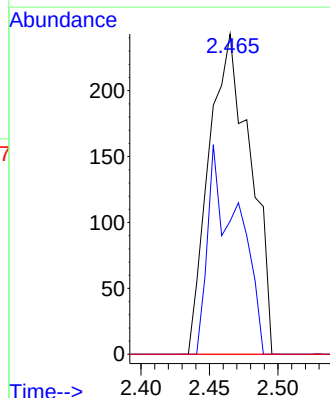
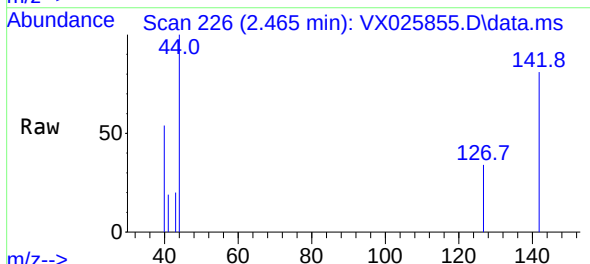
Instrument :
MSVOA_X
ClientSampleId :

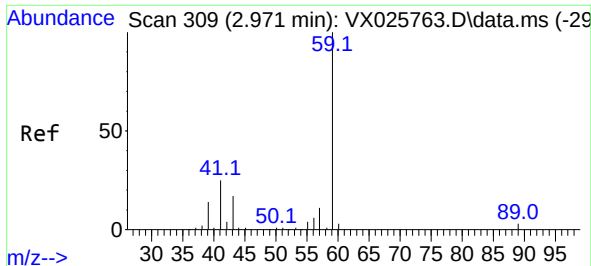
Tgt Ion: 64 Resp: 300
Ion Ratio Lower Upper
64 100
66 40.6 25.9 38.9#



#10
Methyl Iodide
Concen: 0.247 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.012 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

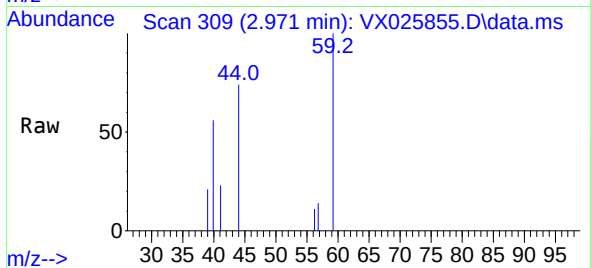
Tgt Ion: 142 Resp: 511
Ion Ratio Lower Upper
142 100
127 47.9 37.5 56.3
141 0.0 11.4 17.0#



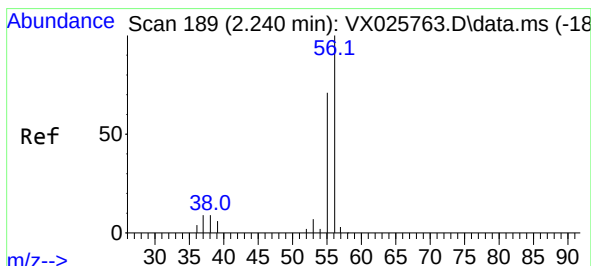
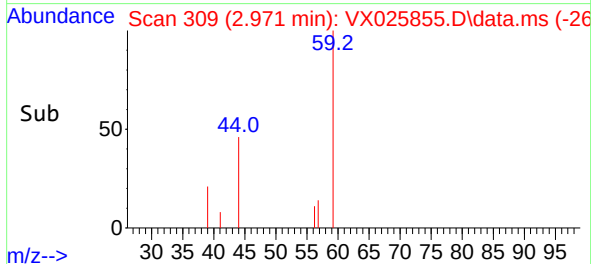
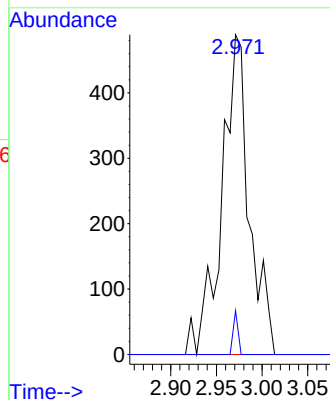


#11
Tert butyl alcohol
Concen: 2.339 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.000 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Instrument :
MSVOA_X
ClientSampleId :

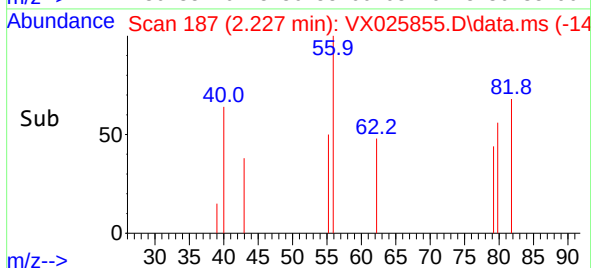
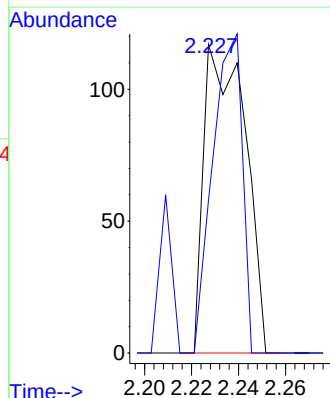
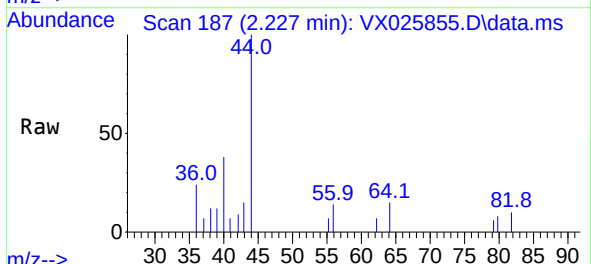


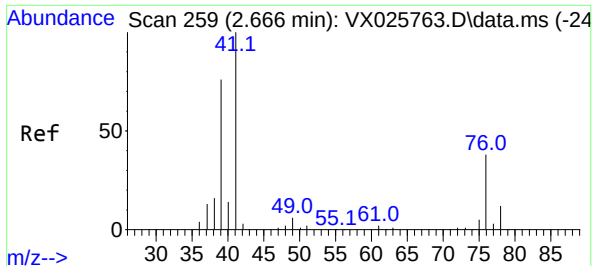
Tgt Ion: 59 Resp: 1030
Ion Ratio Lower Upper
59 100
57 2.4 8.2 12.2#



#13
Acrolein
Concen: 0.475 ug/l
RT: 2.227 min Scan# 187
Delta R.T. -0.012 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

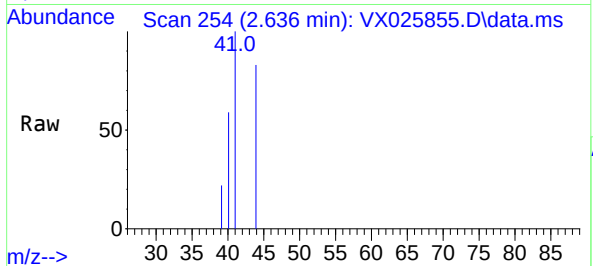
Tgt Ion: 56 Resp: 143
Ion Ratio Lower Upper
56 100
55 74.1 57.4 86.2



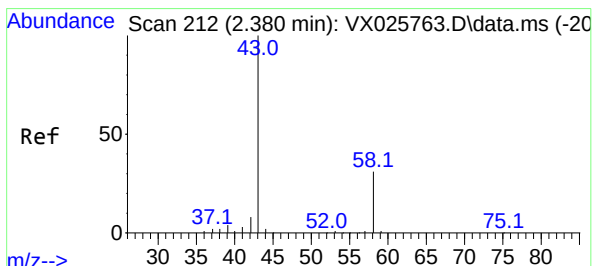
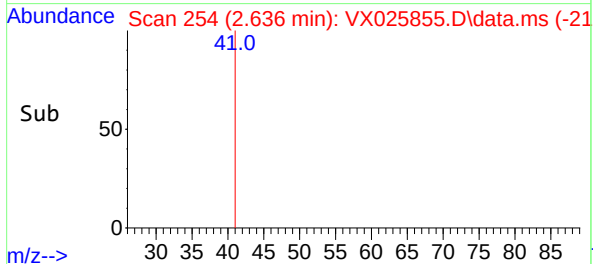
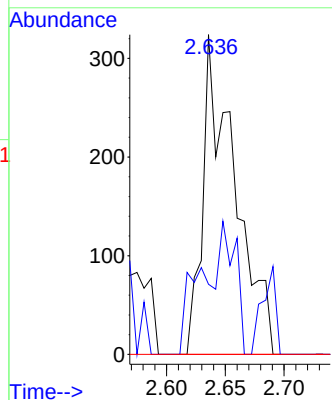


#14
 Allyl chloride
 Concen: 0.209 ug/l
 RT: 2.636 min Scan# 213
 Delta R.T. -0.031 min
 Lab File: VX025855.D
 Acq: 16 Dec 2021 15:07

Instrument :
 MSVOA_X
 ClientSampleId :

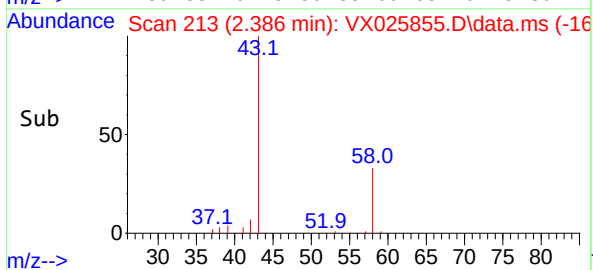
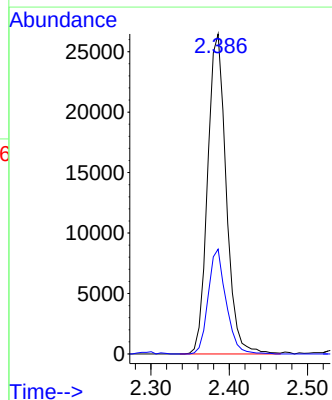
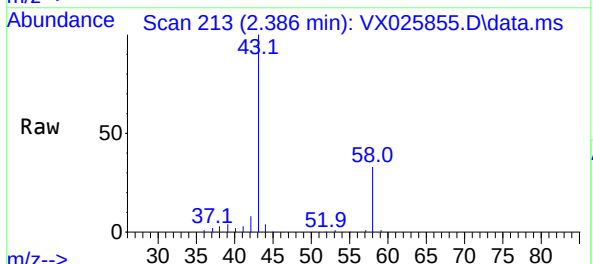


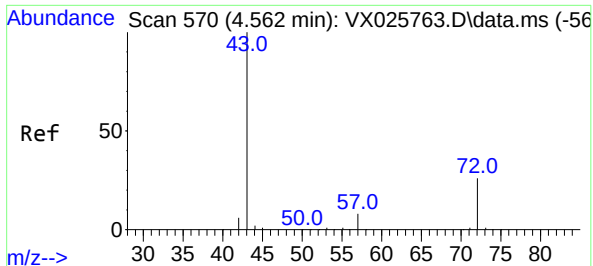
Tgt Ion: 41 Resp: 615
 Ion Ratio Lower Upper
 41 100
 39 18.7 55.4 83.0#
 76 0.0 27.6 41.4#



#16
 Acetone
 Concen: 27.160 ug/l
 RT: 2.386 min Scan# 213
 Delta R.T. 0.006 min
 Lab File: VX025855.D
 Acq: 16 Dec 2021 15:07

Tgt Ion: 43 Resp: 43542
 Ion Ratio Lower Upper
 43 100
 58 32.7 24.8 37.2





#25

2-Butanone

Concen: 9.979 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX025855.D

Acq: 16 Dec 2021 15:07

Instrument :

MSVOA_X

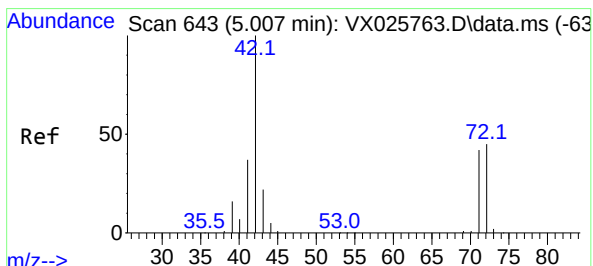
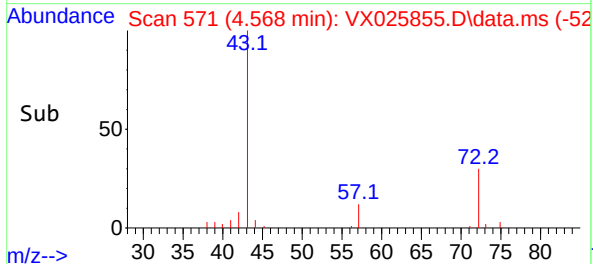
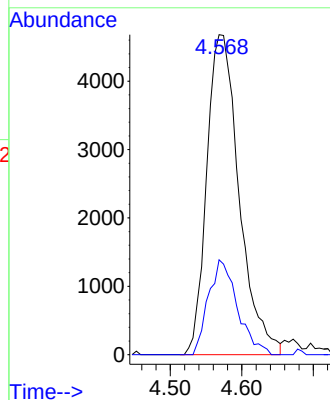
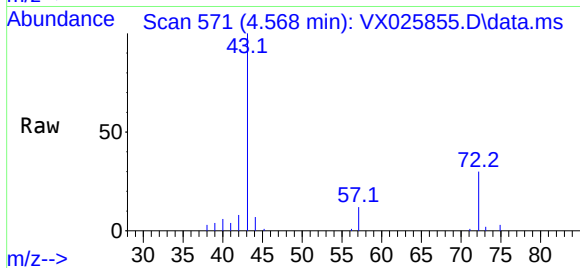
ClientSampleId :

Tgt Ion: 43 Resp: 14732

Ion Ratio Lower Upper

43 100

72 29.7 21.0 31.4



#29

Tetrahydrofuran

Concen: 9.383 ug/l

RT: 5.026 min Scan# 646

Delta R.T. 0.018 min

Lab File: VX025855.D

Acq: 16 Dec 2021 15:07

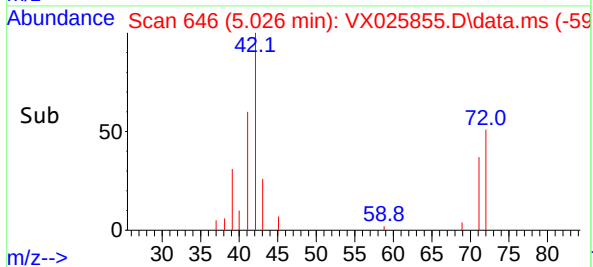
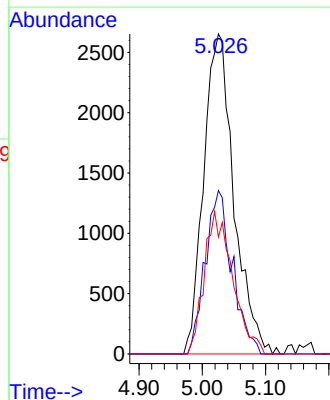
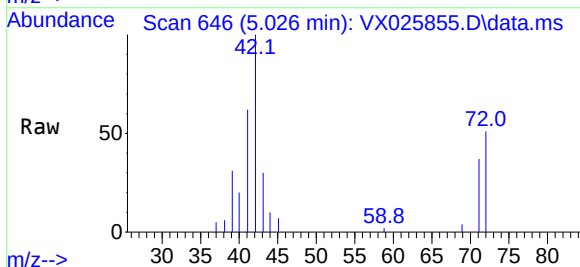
Tgt Ion: 42 Resp: 8807

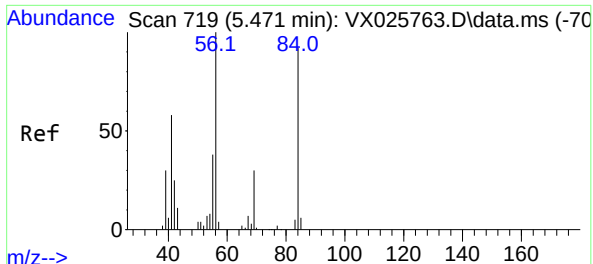
Ion Ratio Lower Upper

42 100

72 45.6 37.0 55.6

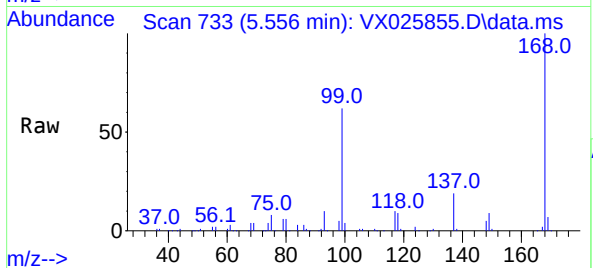
71 41.9 34.1 51.1



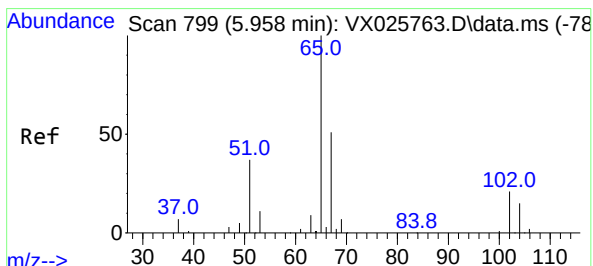
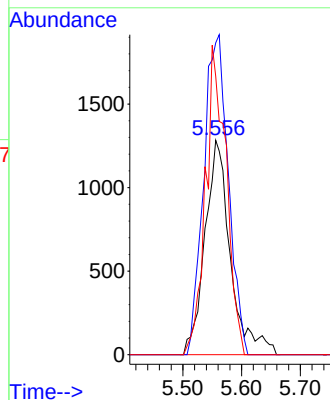
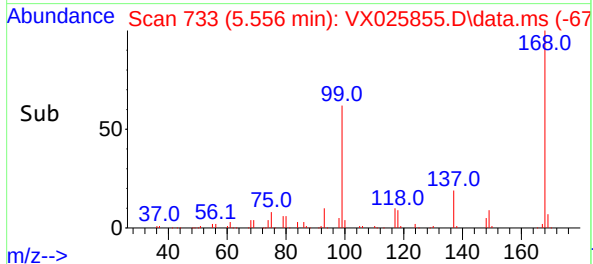


#31
Cyclohexane
Concen: 1.449 ug/l
RT: 5.556 min Scan# 719
Delta R.T. 0.085 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Instrument :
MSVOA_X
ClientSampleId :

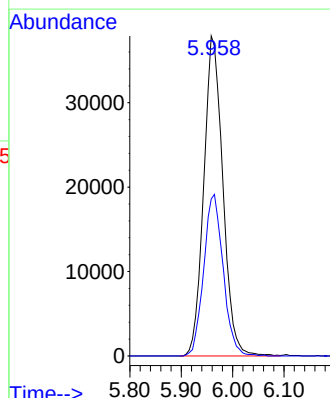
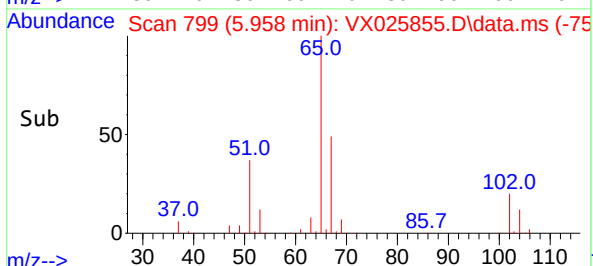
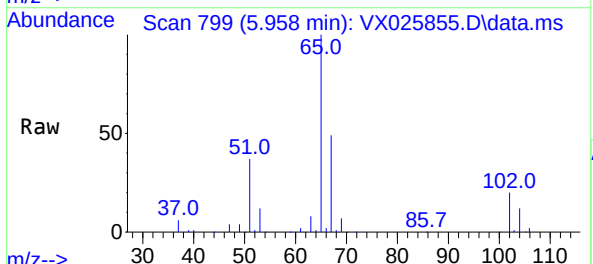


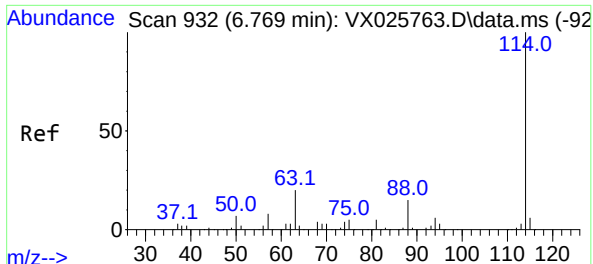
Tgt Ion: 56 Resp: 3869
Ion Ratio Lower Upper
56 100
69 145.4 23.9 35.9#
84 129.9 73.2 109.8#



#33
1,2-Dichloroethane-d4
Concen: 44.657 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

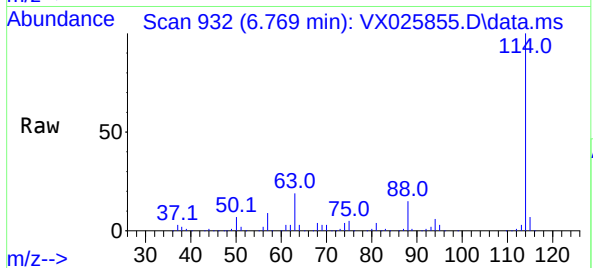
Tgt Ion: 65 Resp: 98024
Ion Ratio Lower Upper
65 100
67 51.4 0.0 103.4



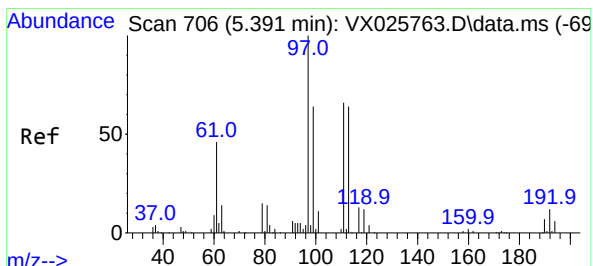
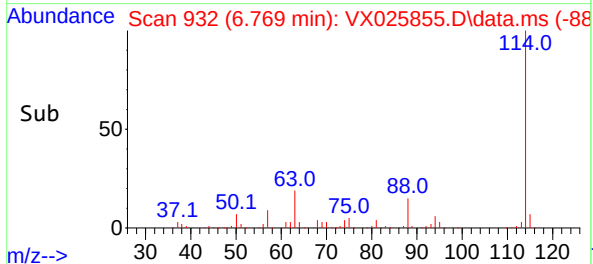
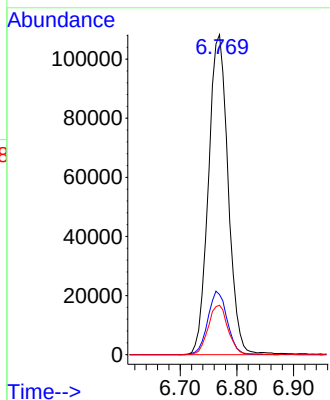


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Instrument :
MSVOA_X
ClientSampleId :

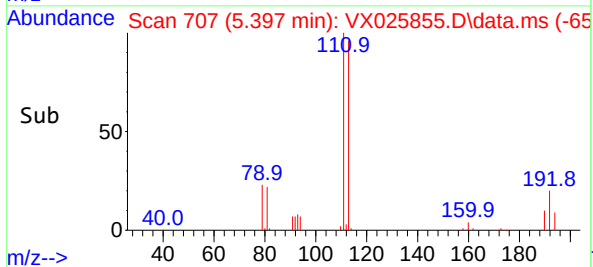
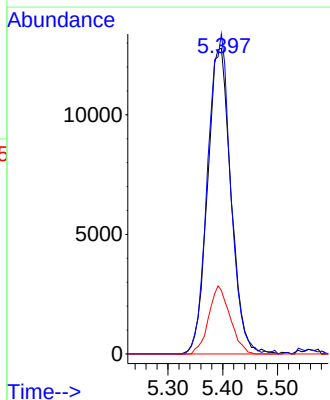
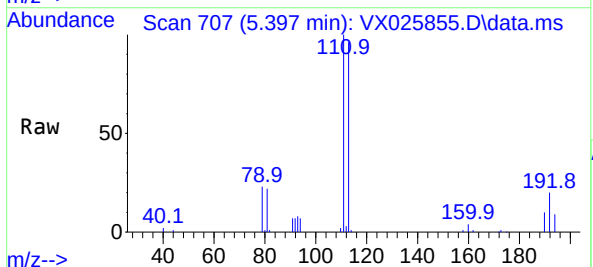


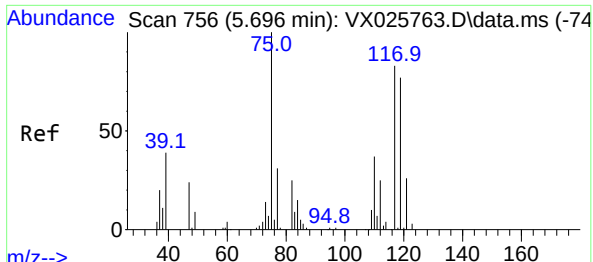
Tgt Ion:114 Resp: 260753
Ion Ratio Lower Upper
114 100
63 18.8 0.0 40.0
88 15.4 0.0 30.6



#35
Dibromofluoromethane
Concen: 20.874 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.006 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Tgt Ion:113 Resp: 37960
Ion Ratio Lower Upper
113 100
111 102.3 81.8 122.8
192 20.3 15.0 22.4





#36

1,1-Dichloropropene

Concen: 4.716 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.140 min

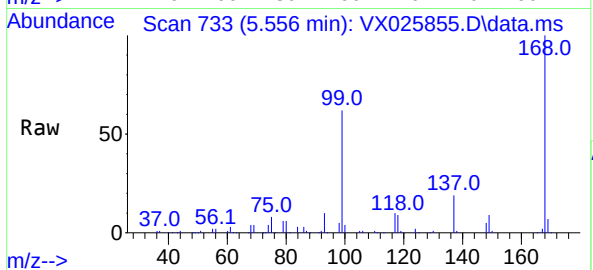
Lab File: VX025855.D

Acq: 16 Dec 2021 15:07

Instrument :

MSVOA_X

ClientSampleId :



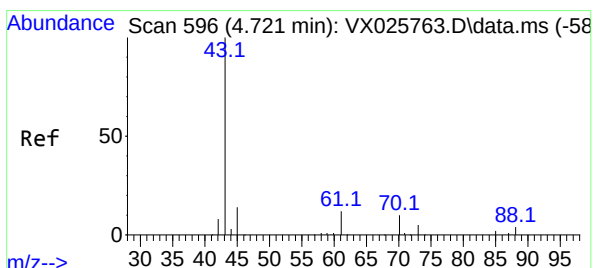
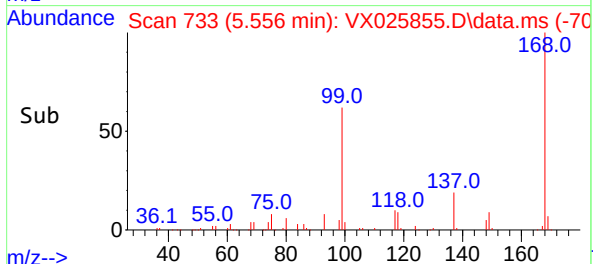
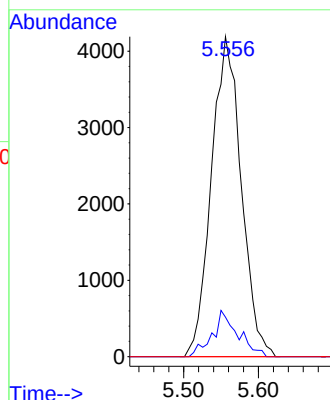
Tgt Ion: 75 Resp: 11629

Ion Ratio Lower Upper

75 100

110 12.3 18.2 54.6#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 5.377 ug/l

RT: 4.568 min Scan# 571

Delta R.T. -0.153 min

Lab File: VX025855.D

Acq: 16 Dec 2021 15:07

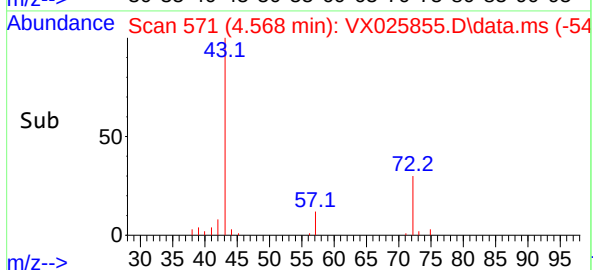
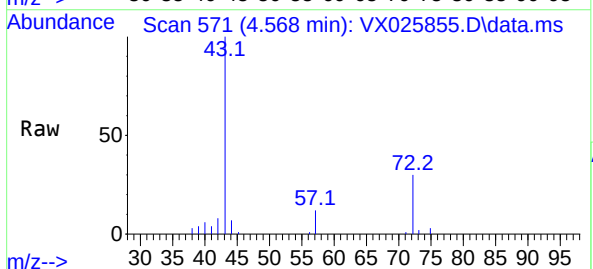
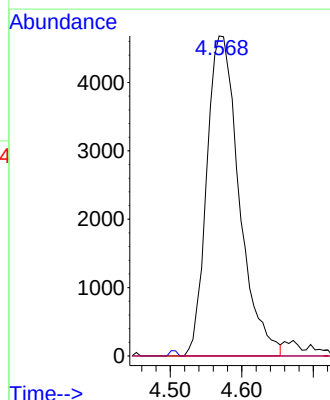
Tgt Ion: 43 Resp: 14732

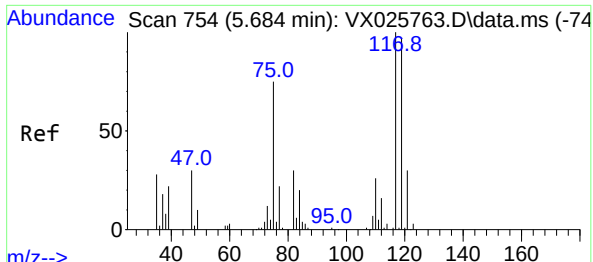
Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

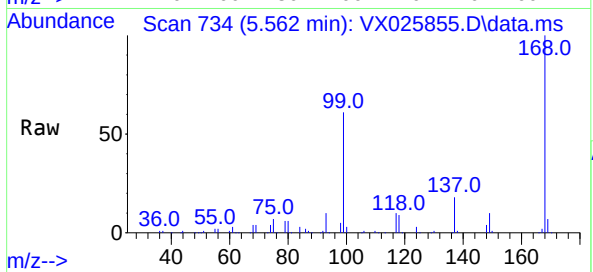
70 0.0 8.5 12.7#



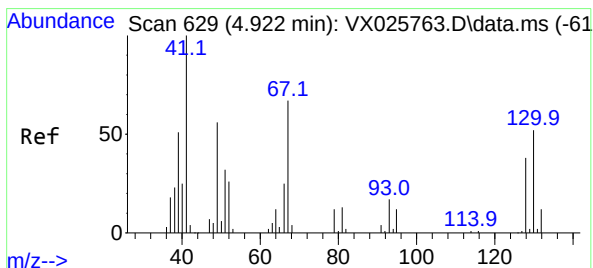
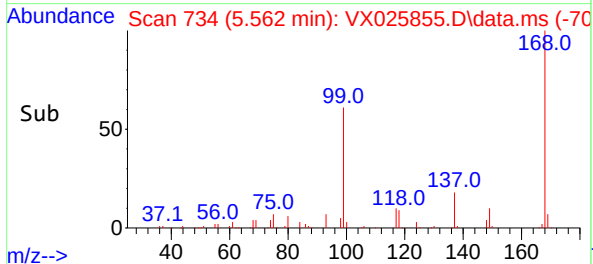
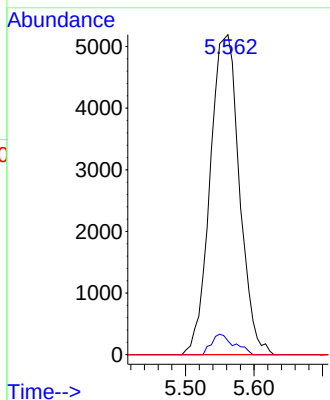


#38
Carbon Tetrachloride
Concen: 5.373 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Instrument :
MSVOA_X
ClientSampleId :

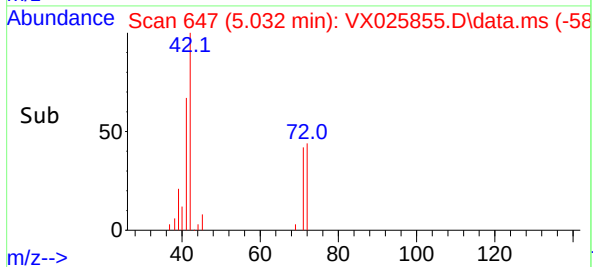
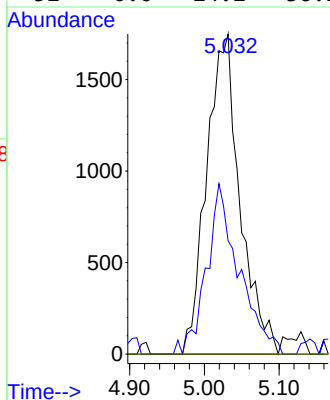
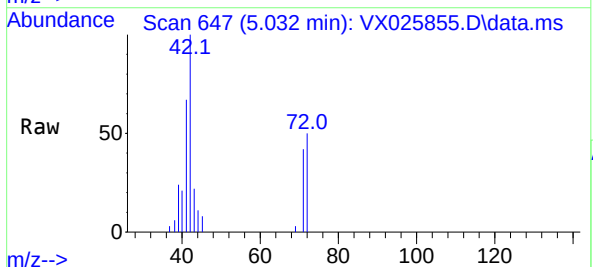


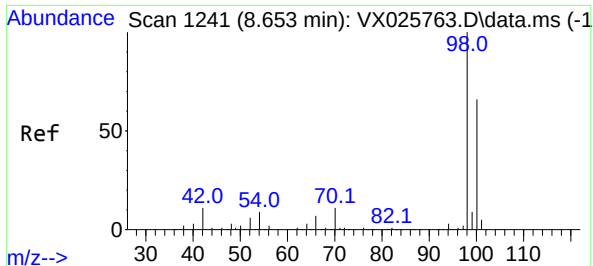
Tgt Ion:117 Resp: 15417
Ion Ratio Lower Upper
117 100
119 4.3 77.2 115.8#
121 0.0 23.8 35.8#



#41
Methacrylonitrile
Concen: 3.578 ug/l
RT: 5.032 min Scan# 647
Delta R.T. 0.110 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Tgt Ion: 41 Resp: 5425
Ion Ratio Lower Upper
41 100
39 51.7 44.2 66.2
67 0.0 59.7 89.5#
52 0.0 24.2 36.2#

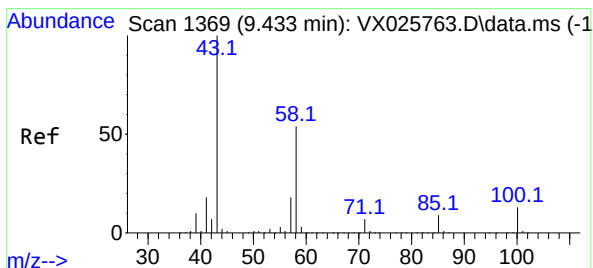
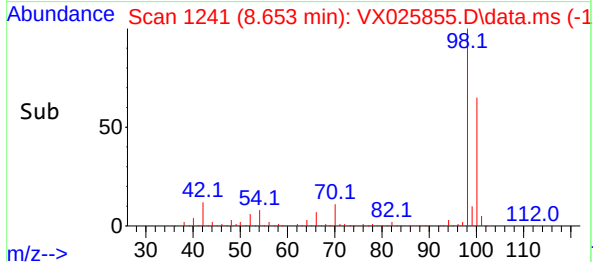
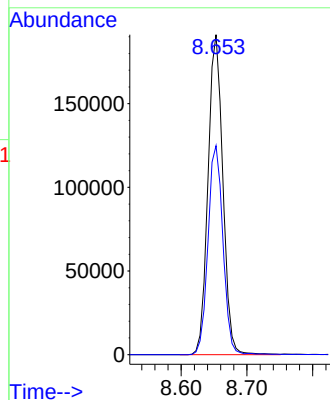
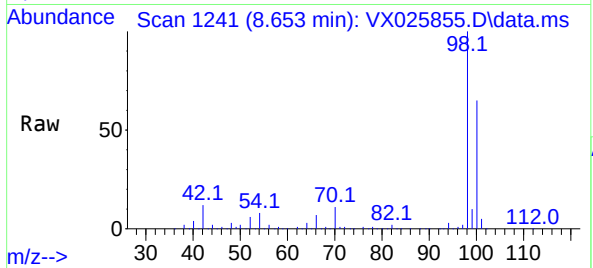




#50
Toluene-d8
Concen: 45.313 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

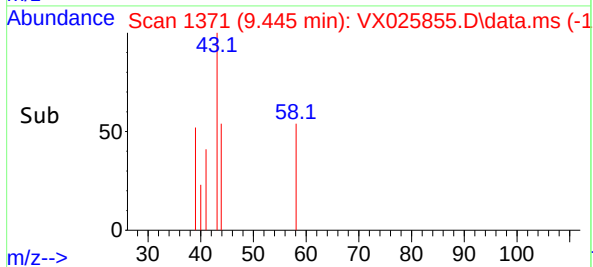
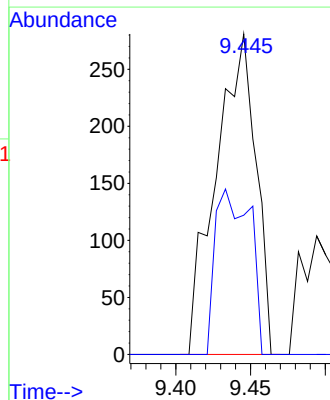
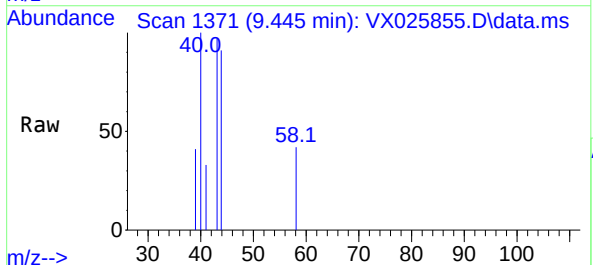
Instrument :
MSVOA_X
ClientSampleId :

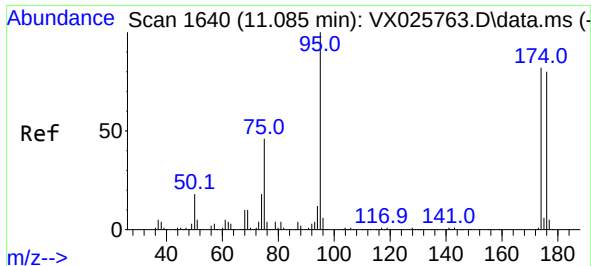
Tgt Ion: 98 Resp: 300234
Ion Ratio Lower Upper
98 100
100 65.9 52.6 78.8



#59
2-Hexanone
Concen: 0.238 ug/l
RT: 9.445 min Scan# 1371
Delta R.T. 0.012 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

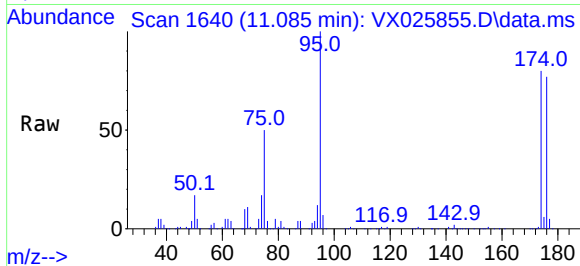
Tgt Ion: 43 Resp: 522
Ion Ratio Lower Upper
43 100
58 45.0 26.9 80.6



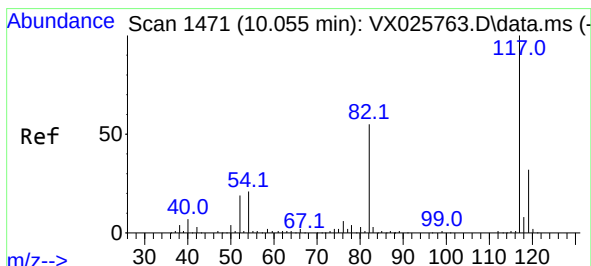
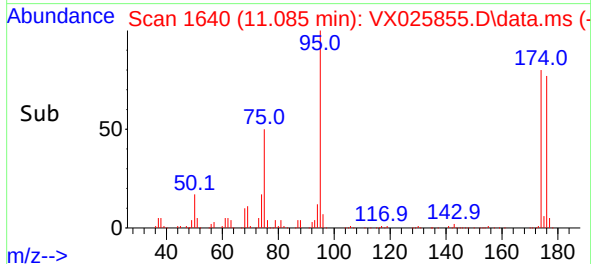
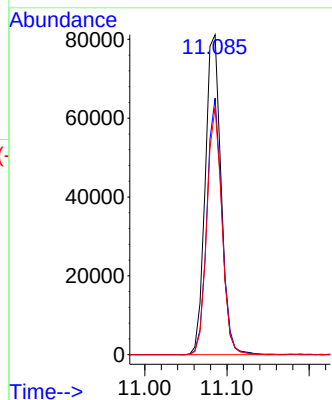


#62
4-Bromofluorobenzene
Concen: 43.036 ug/l
RT: 11.085 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Instrument :
MSVOA_X
ClientSampleId :

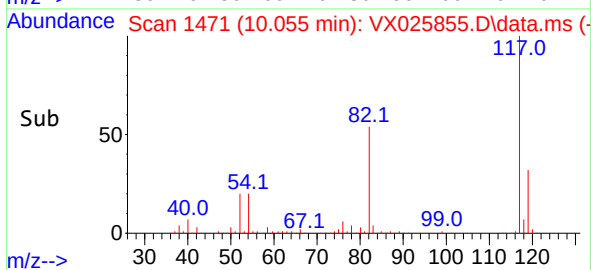
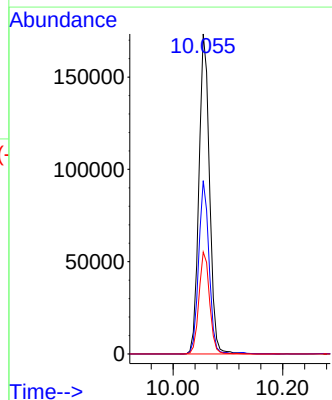
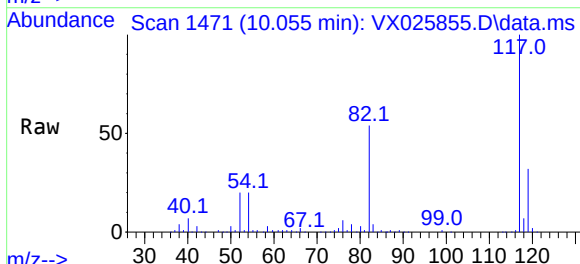


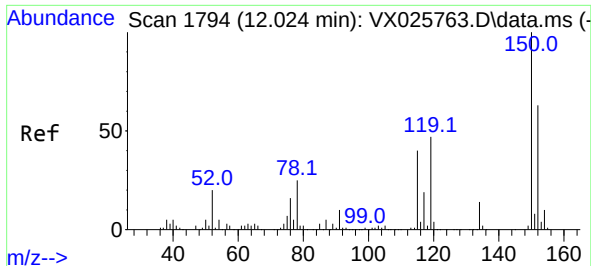
Tgt Ion: 95 Resp: 108317
Ion Ratio Lower Upper
95 100
174 76.5 0.0 157.4
176 73.5 0.0 154.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

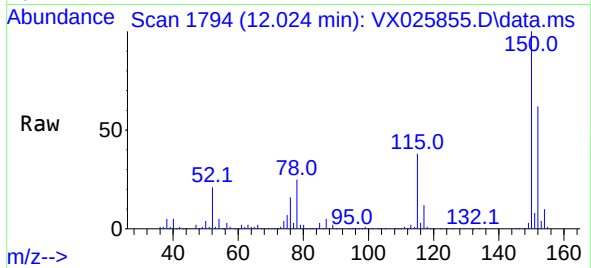
Tgt Ion: 117 Resp: 233783
Ion Ratio Lower Upper
117 100
82 54.2 43.8 65.6
119 31.9 25.2 37.8



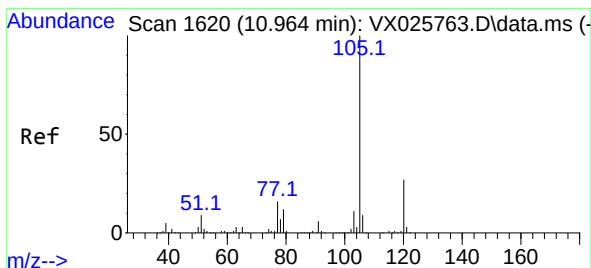
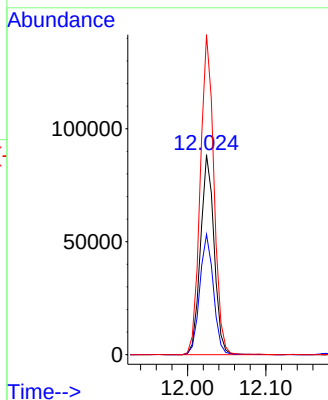
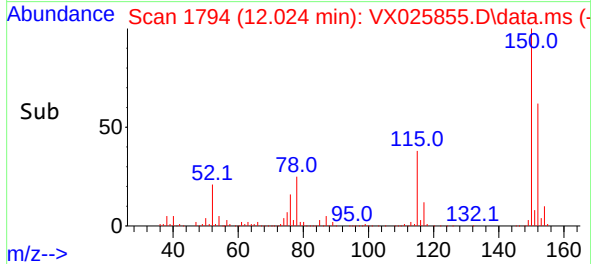


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

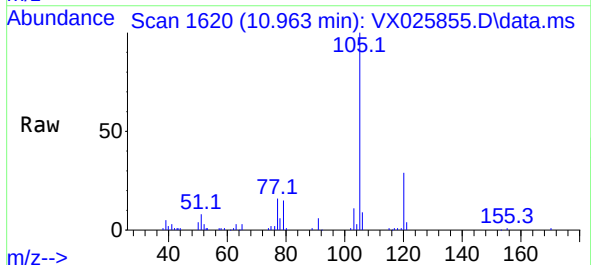
Instrument :
MSVOA_X
ClientSampleId :



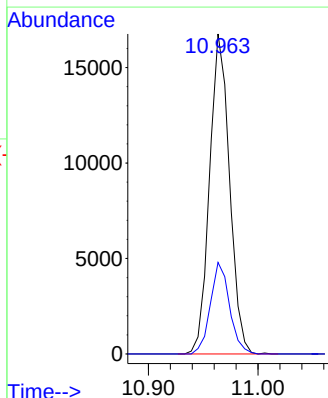
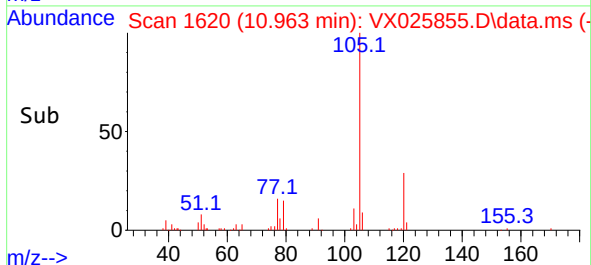
Tgt Ion:152 Resp: 106490
Ion Ratio Lower Upper
152 100
115 60.7 41.3 123.9
150 160.4 0.0 351.8

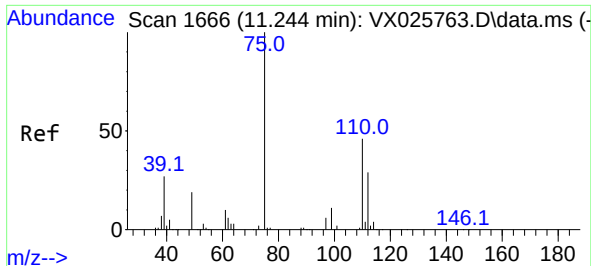


#73
Isopropylbenzene
Concen: 2.744 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07



Tgt Ion:105 Resp: 21208
Ion Ratio Lower Upper
105 100
120 27.5 13.6 40.7

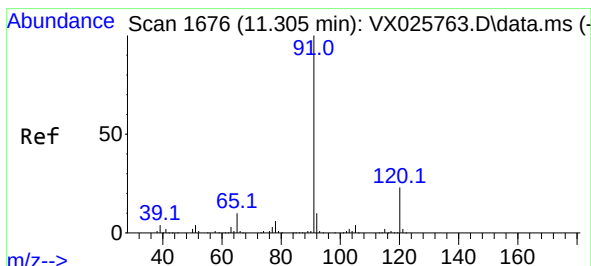
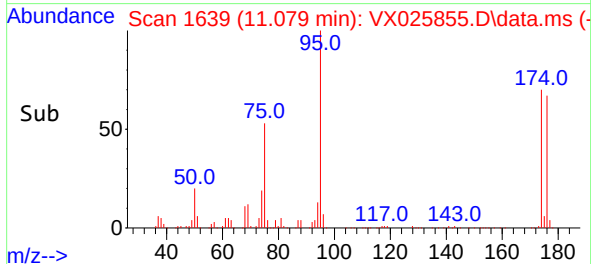
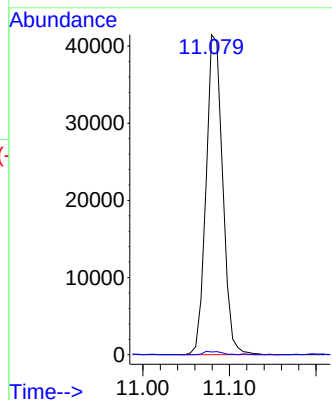
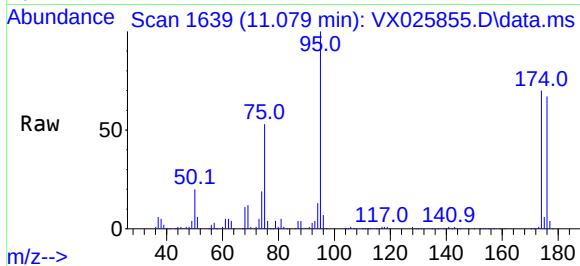




#76
1,2,3-Trichloropropane
Concen: 22.583 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

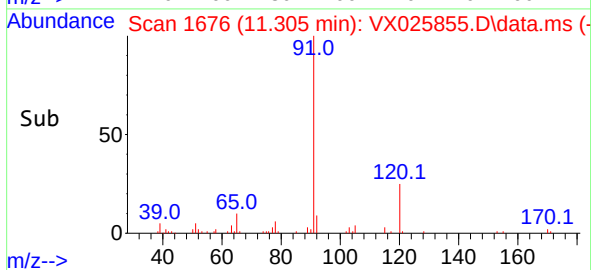
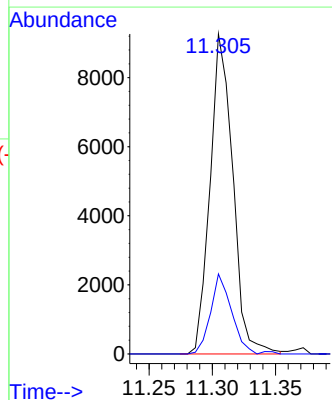
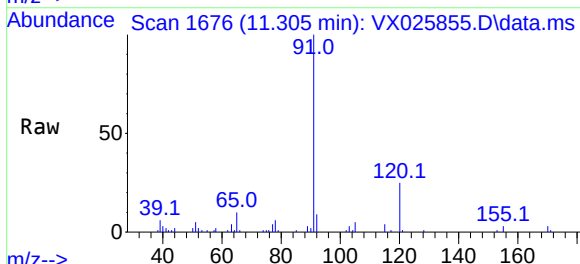
Instrument :
MSVOA_X
ClientSampleId :

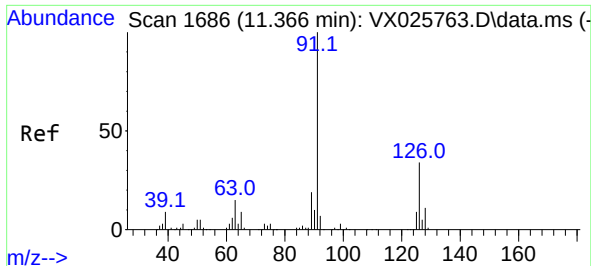
Tgt Ion: 75 Resp: 55100
Ion Ratio Lower Upper
75 100
77 1.1 19.0 57.0#



#78
n-propylbenzene
Concen: 1.326 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Tgt Ion: 91 Resp: 11595
Ion Ratio Lower Upper
91 100
120 23.3 12.0 36.1

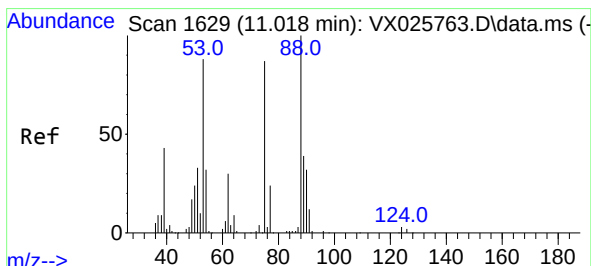
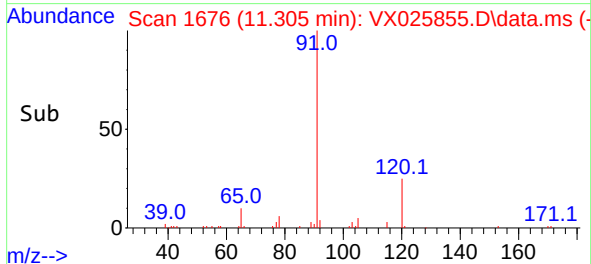
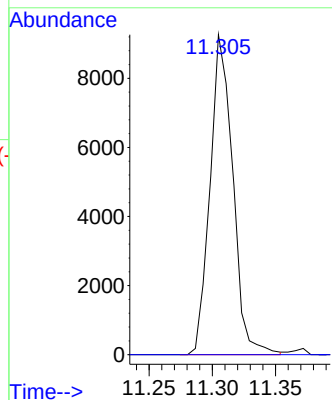
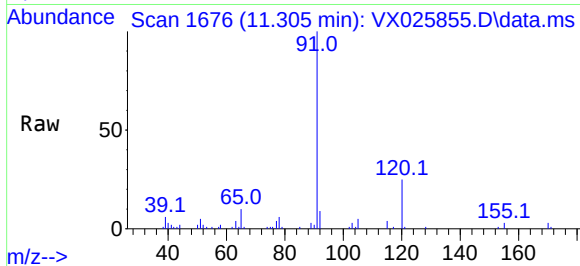




#79
2-Chlorotoluene
Concen: 2.086 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.061 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

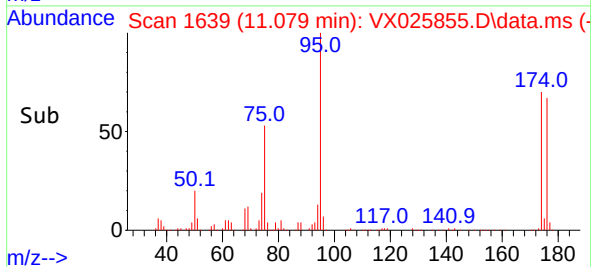
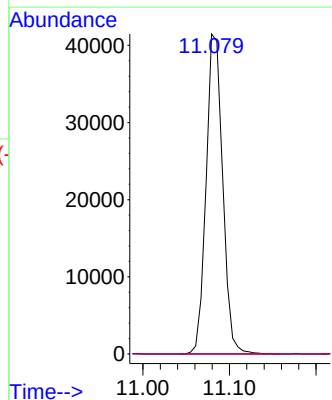
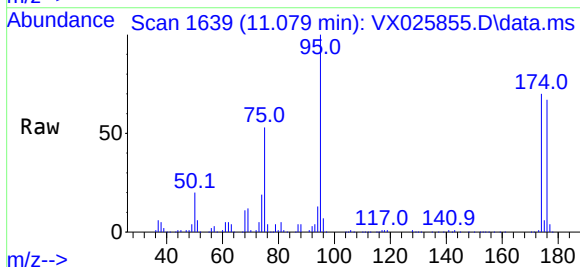
Instrument :
MSVOA_X
ClientSampleId :

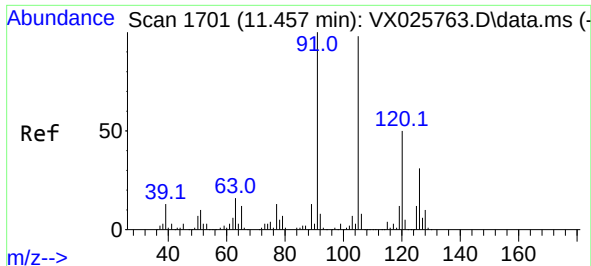
Tgt Ion: 91 Resp: 11595
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.014 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Tgt Ion: 75 Resp: 55100
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 38.3 57.5#

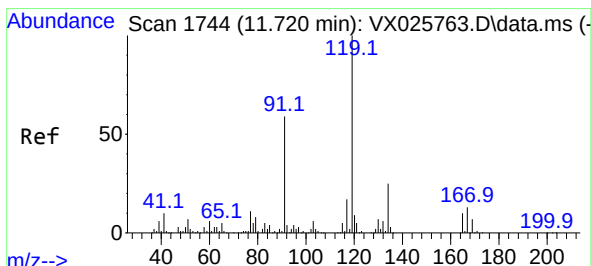
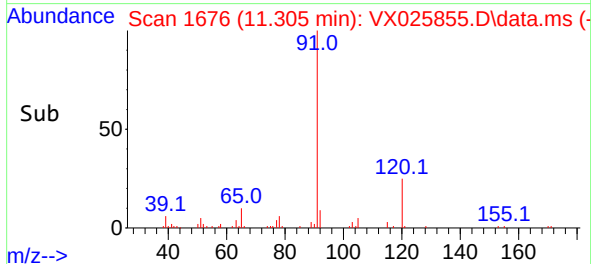
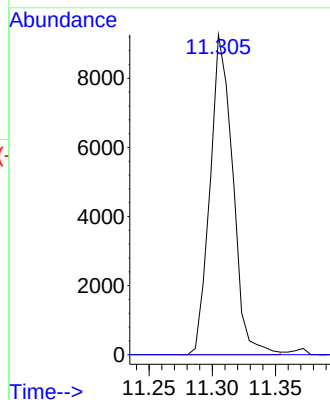
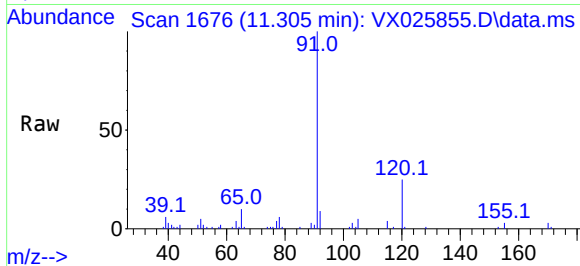




#82
4-Chlorotoluene
Concen: 1.863 ug/l
RT: 11.305 min Scan# 11595
Delta R.T. -0.152 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

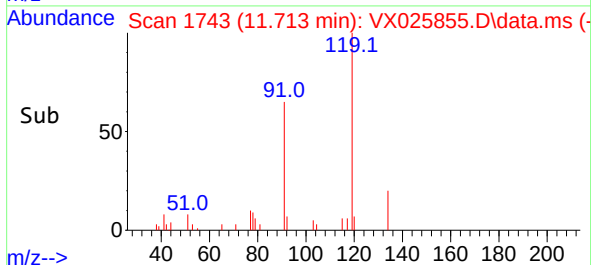
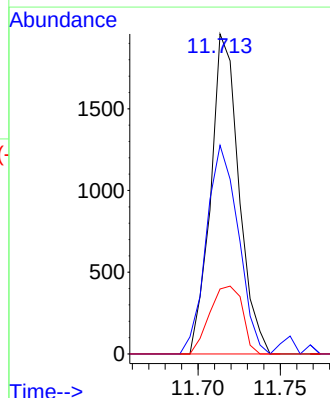
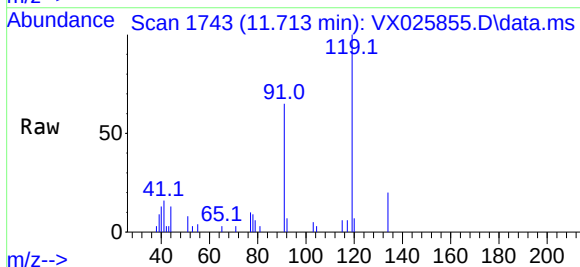
Instrument :
MSVOA_X
ClientSampleId :

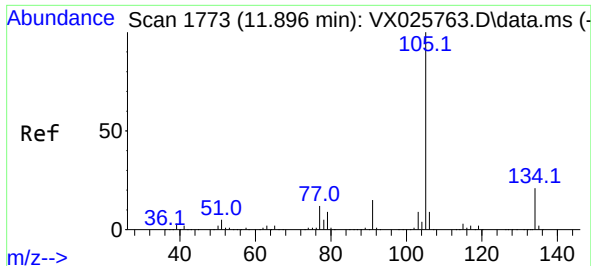
Tgt Ion: 91 Resp: 11595
Ion Ratio Lower Upper
91 100
126 0.0 15.6 46.7#



#83
tert-Butylbenzene
Concen: 0.371 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.006 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Tgt Ion: 119 Resp: 2333
Ion Ratio Lower Upper
119 100
91 74.1 28.7 86.1
134 24.6 11.9 35.9

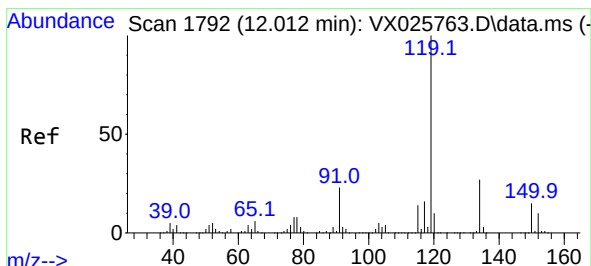
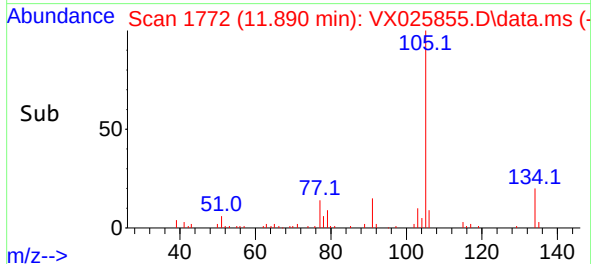
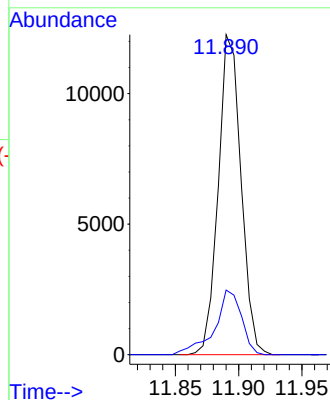
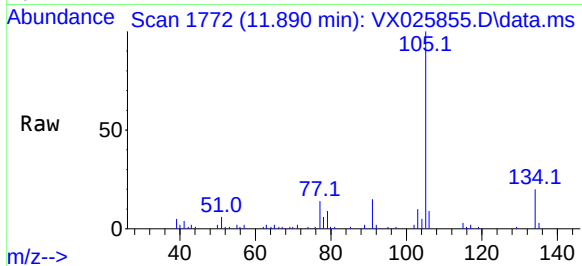




#85
 sec-Butylbenzene
 Concen: 2.025 ug/l
 RT: 11.890 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VX025855.D
 Acq: 16 Dec 2021 15:07

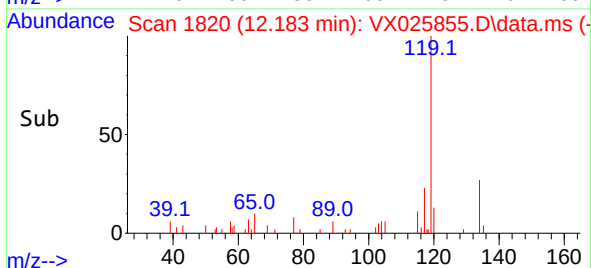
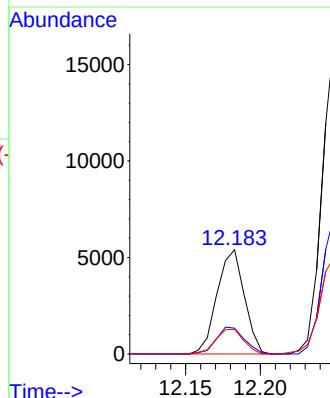
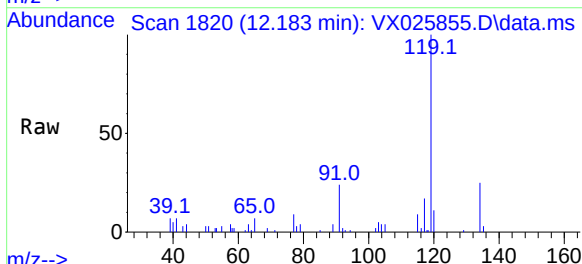
Instrument :
 MSVOA_X
 ClientSampleId :

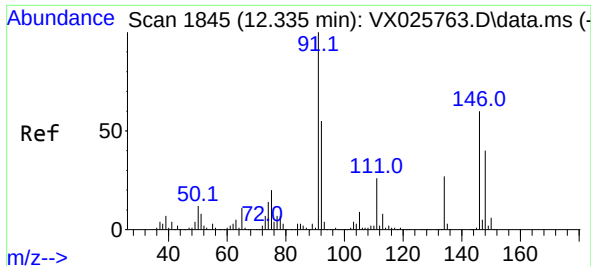
Tgt Ion:105 Resp: 15295
 Ion Ratio Lower Upper
 105 100
 134 23.9 10.4 31.1



#86
 p-Isopropyltoluene
 Concen: 1.078 ug/l
 RT: 12.183 min Scan# 1820
 Delta R.T. 0.171 min
 Lab File: VX025855.D
 Acq: 16 Dec 2021 15:07

Tgt Ion:119 Resp: 6836
 Ion Ratio Lower Upper
 119 100
 134 26.5 13.2 39.6
 91 24.3 11.9 35.9





#89

n-Butylbenzene

Concen: 0.665 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX025855.D

Acq: 16 Dec 2021 15:07

Instrument :

MSVOA_X

ClientSampleId :

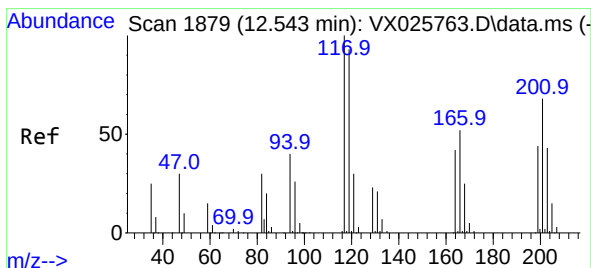
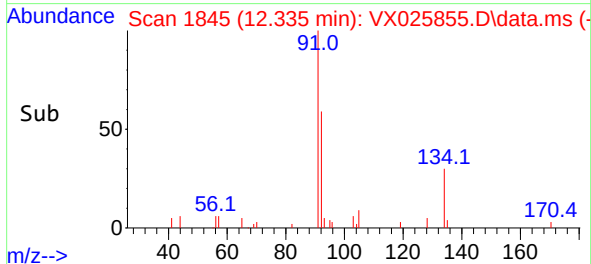
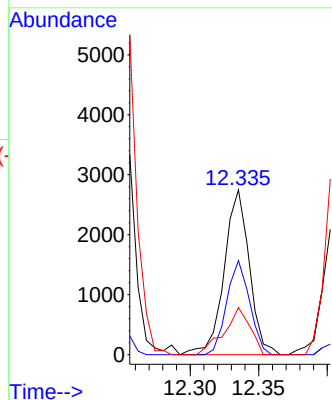
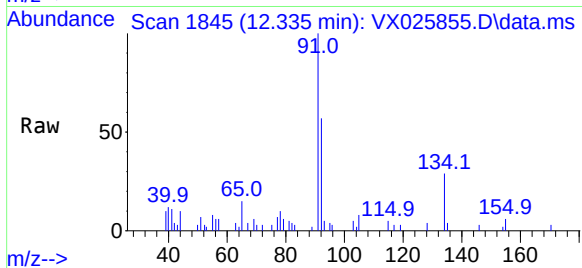
Tgt Ion: 91 Resp: 3517

Ion Ratio Lower Upper

91 100

92 51.9 27.3 81.8

134 29.5 13.5 40.4



#90

Hexachloroethane

Concen: 4.136 ug/l

RT: 12.616 min Scan# 1891

Delta R.T. 0.073 min

Lab File: VX025855.D

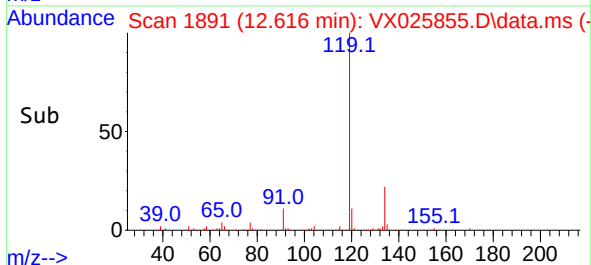
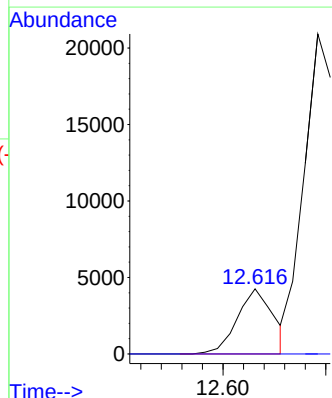
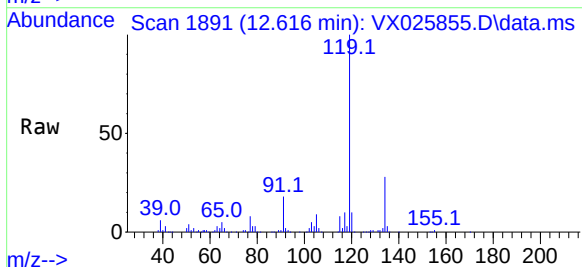
Acq: 16 Dec 2021 15:07

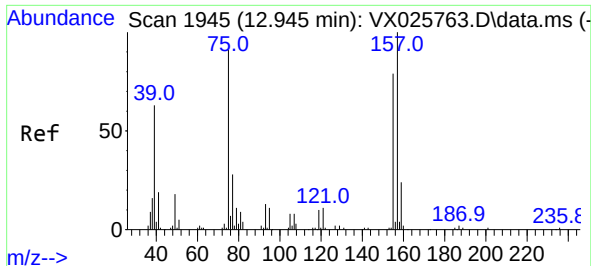
Tgt Ion: 117 Resp: 5155

Ion Ratio Lower Upper

117 100

201 0.0 35.4 106.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.871 ug/l

RT: 12.927 min Scan# 1942

Delta R.T. -0.018 min

Lab File: VX025855.D

Acq: 16 Dec 2021 15:07

Instrument :

MSVOA_X

ClientSampleId :

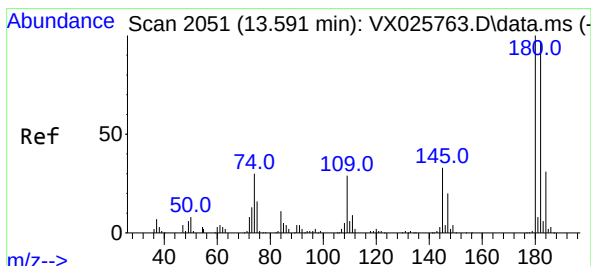
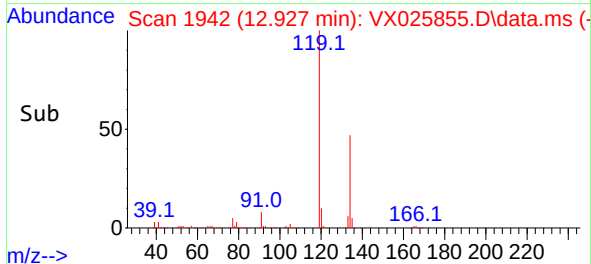
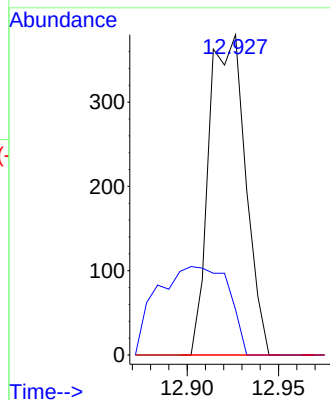
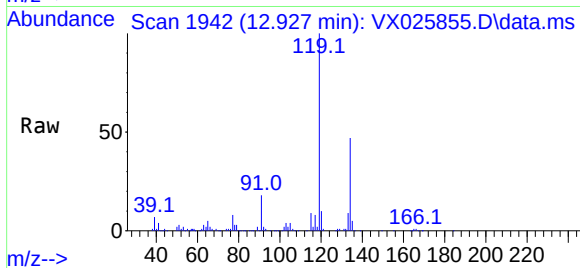
Tgt Ion: 75 Resp: 527

Ion Ratio Lower Upper

75 100

155 0.0 44.0 131.8#

157 0.0 55.5 166.5#



#93

1,2,4-Trichlorobenzene

Concen: 3.417 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.006 min

Lab File: VX025855.D

Acq: 16 Dec 2021 15:07

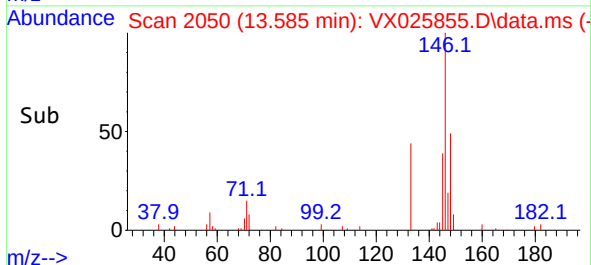
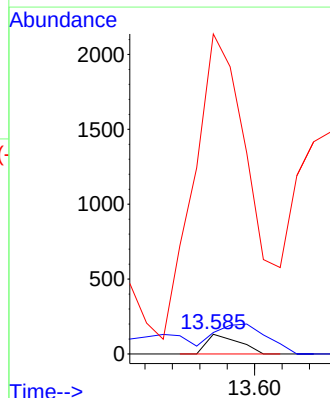
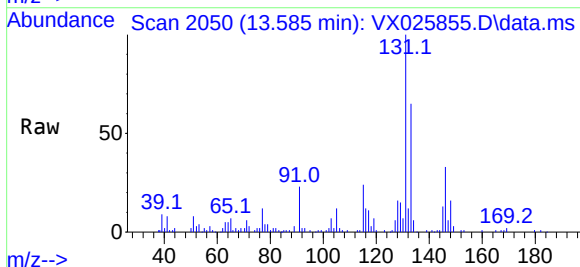
Tgt Ion: 180 Resp: 107

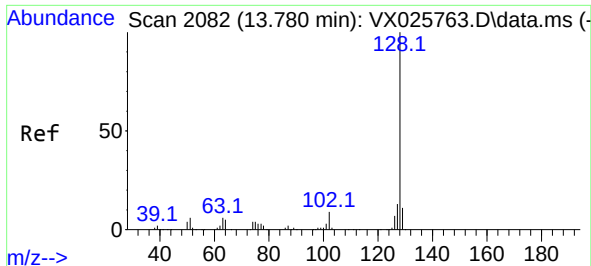
Ion Ratio Lower Upper

180 100

182 249.5 47.2 141.6#

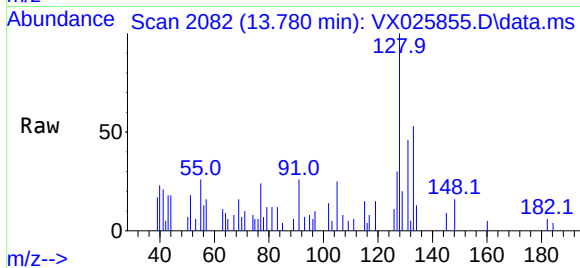
145 2695.3 16.3 48.9#



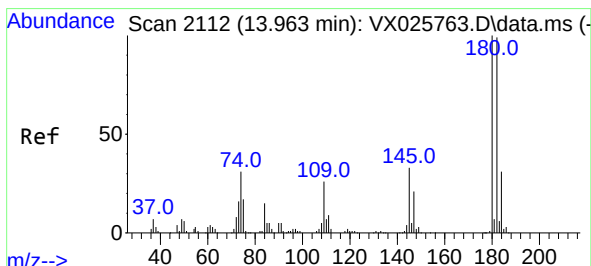
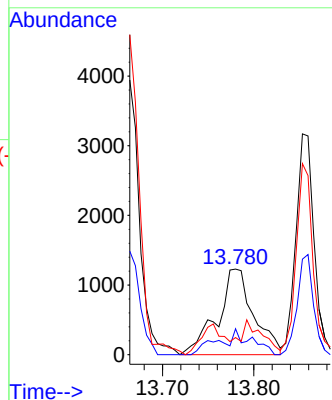
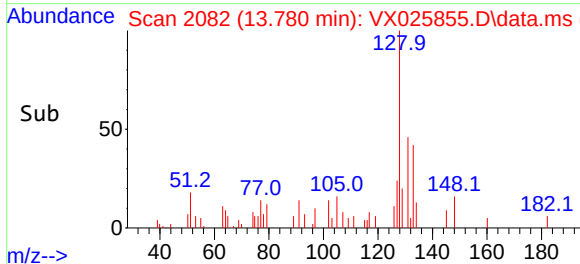


#95
Naphthalene
Concen: 2.853 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.000 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:128 Resp: 3378
Ion Ratio Lower Upper
128 100
127 3.8 10.3 15.5#
129 19.1 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 3.024 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX025855.D
Acq: 16 Dec 2021 15:07

Tgt Ion:180 Resp: 68
Ion Ratio Lower Upper
180 100
182 135.3 47.5 142.6
145 5738.2 16.7 50.1#

