

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110221\
 Data File : VY006575.D
 Acq On : 02 Nov 2021 14:17
 Operator : SY/MD
 Sample : M4427-03
 Misc : 3.90G/5ML/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 03 01:50:18 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y102221S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 23 06:59:04 2021
 Response via : Initial Calibration

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

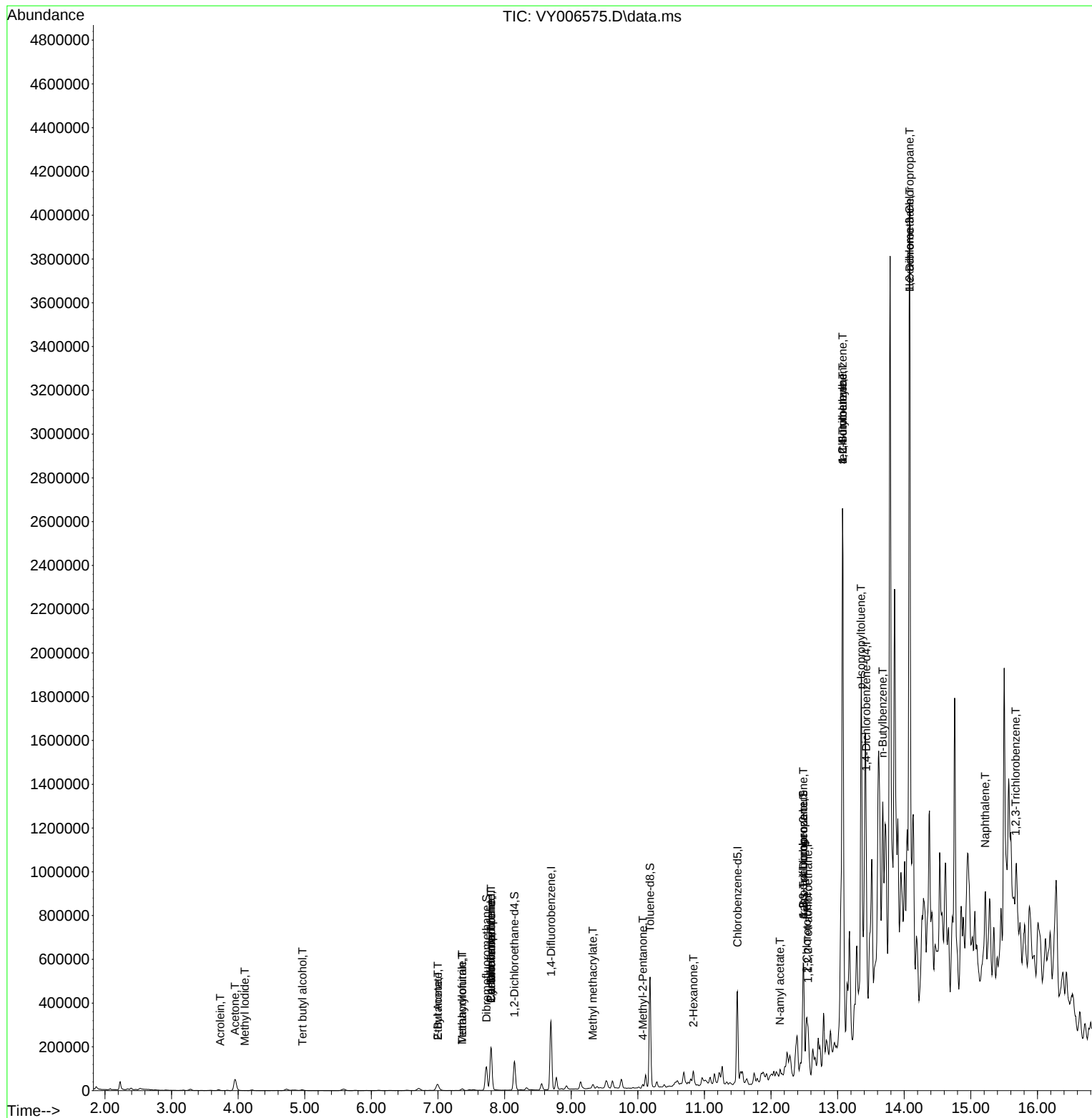
Internal Standards						
1) Pentafluorobenzene	7.795	168	144661	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	246054	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	206760	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	56394	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.148	65	103783	58.300	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 116.600%	
35) Dibromofluoromethane	7.728	113	74456	54.291	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.580%	
50) Toluene-d8	10.184	98	316388	54.421	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 108.840%	
62) 4-Bromofluorobenzene	12.483	95	85222	43.516	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 87.040%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.100	142	416	5.322	ug/l #	43
11) Tert butyl alcohol	4.966	59	6690	41.368	ug/l #	94
13) Acrolein	3.728	56	158	1.413	ug/l #	14
16) Acetone	3.954	43	88090	171.854	ug/l	98
20) Methylene Chloride	4.728	84	3833	Below Cal		93
25) 2-Butanone	6.996	43	33594	50.026	ug/l #	90
29) Tetrahydrofuran	7.362	42	790	1.917	ug/l #	47
31) Cyclohexane	7.795	56	4191	1.454	ug/l #	16
36) 1,1-Dichloropropene	7.795	75	12399	5.100	ug/l #	50
37) Ethyl Acetate	6.996	43	33594	21.834	ug/l #	73
38) Carbon Tetrachloride	7.795	117	14516	5.412	ug/l #	16
41) Methacrylonitrile	7.362	41	3136	3.592	ug/l #	42
48) Methyl methacrylate	9.325	41	5814	4.203	ug/l #	44
51) 4-Methyl-2-Pentanone	10.075	43	11209	7.164	ug/l	91
59) 2-Hexanone	10.837	43	6696	5.913	ug/l	69
74) N-amyl acetate	12.135	43	3862	2.951	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.556	83	54668	80.047	ug/l #	37
76) 1,2,3-Trichloropropane	12.483	75	48520	83.493	ug/l #	100
79) 2-Chlorotoluene	12.538	91	4696	1.740	ug/l	74
81) trans-1,4-Dichloro-2-b...	12.483	75	48520	171.408	ug/l #	13
82) 4-Chlorotoluene	13.074	91	587279	208.826	ug/l #	41
83) tert-Butylbenzene	13.074	119	826759	291.265	ug/l	98
84) 1,2,4-Trimethylbenzene	13.074	105	8431	2.553	ug/l #	1
86) p-Isopropyltoluene	13.349	119	35950	9.887	ug/l #	63
89) n-Butylbenzene	13.678	91	3540	1.035	ug/l #	58
90) Hexachloroethane	14.080	117	72575	110.516	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.080	75	11319	78.069	ug/l #	5
95) Naphthalene	15.214	128	4445	2.103	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.671	180	1984	2.098	ug/l	87

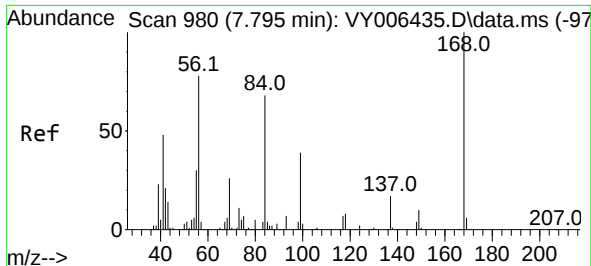
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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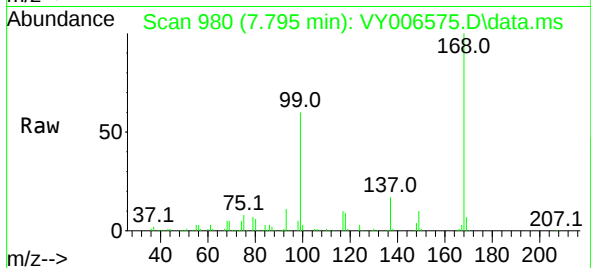
Quant Time: Nov 03 01:50:18 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y102221S.M
Quant Title : SW846 8260
QLast Update : Sat Oct 23 06:59:04 2021
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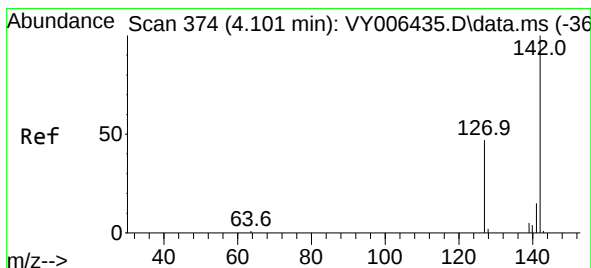
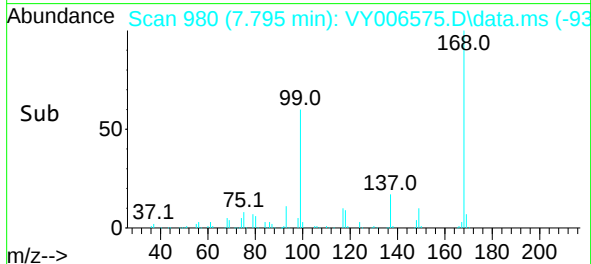
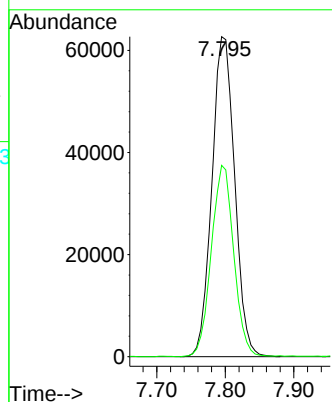


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Instrument :
MSVOA_N
ClientSampleId :

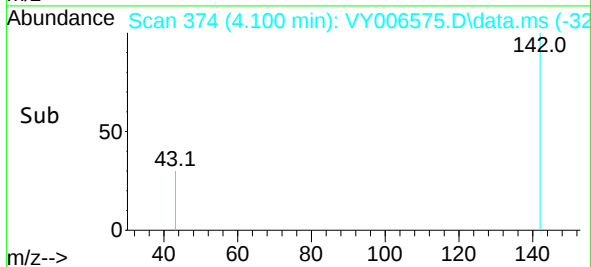
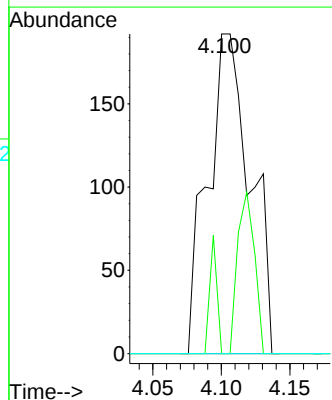
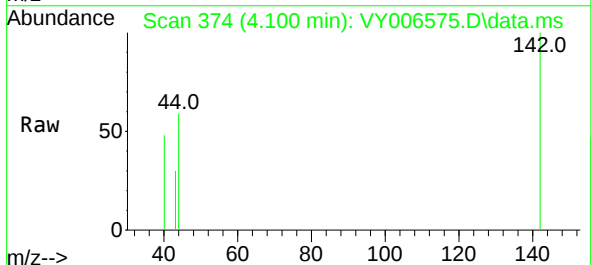


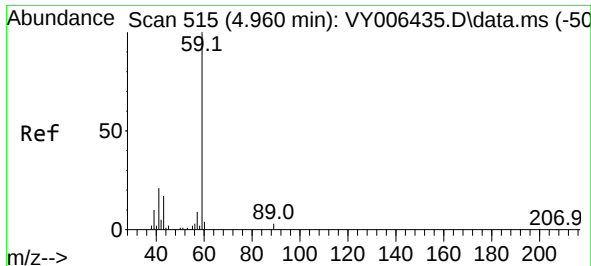
Tgt Ion:168 Resp: 144661
Ion Ratio Lower Upper
168 100
99 59.8 44.8 67.2



#10
Methyl Iodide
Concen: 5.322 ug/l
RT: 4.100 min Scan# 374
Delta R.T. -0.001 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

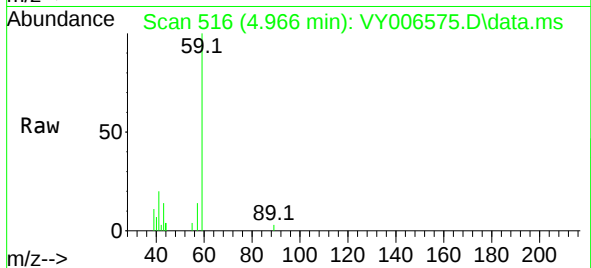
Tgt Ion:142 Resp: 416
Ion Ratio Lower Upper
142 100
127 6.3 40.1 60.1#
141 0.0 12.5 18.7#



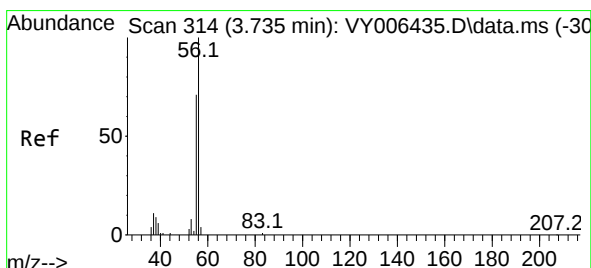
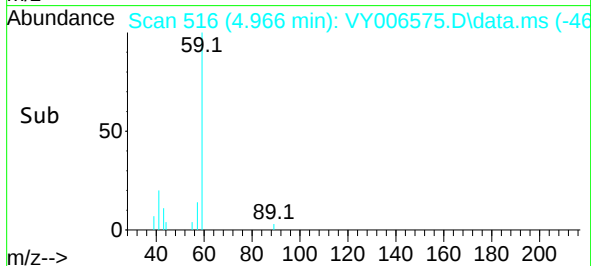
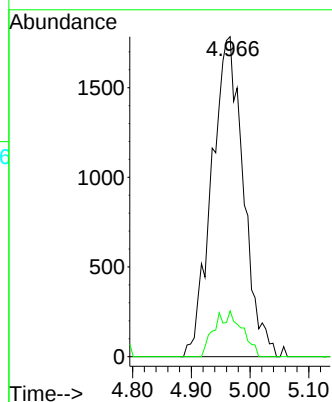


#11
Tert butyl alcohol
Concen: 41.368 ug/l
RT: 4.966 min Scan# 515
Delta R.T. 0.006 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Instrument :
MSVOA_N
ClientSampleId :

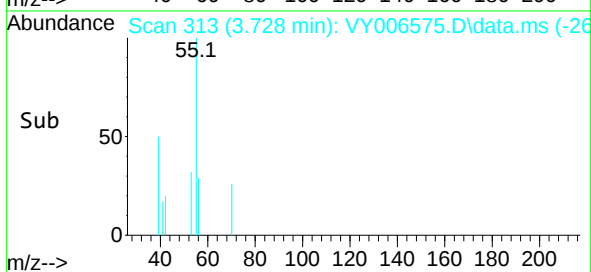
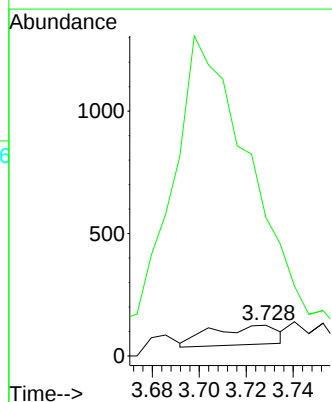
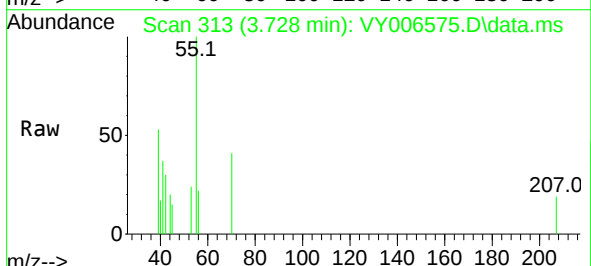


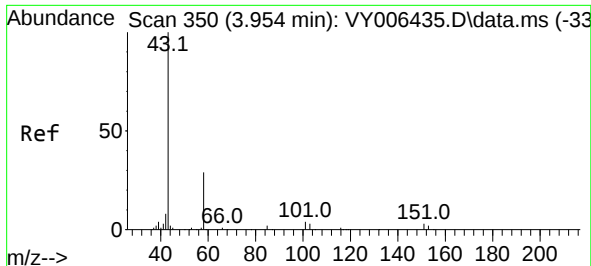
Tgt Ion: 59 Resp: 6690
Ion Ratio Lower Upper
59 100
57 12.4 8.2 12.4#



#13
Acrolein
Concen: 1.413 ug/l
RT: 3.728 min Scan# 313
Delta R.T. -0.006 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Tgt Ion: 56 Resp: 158
Ion Ratio Lower Upper
56 100
55 0.0 57.1 85.7#

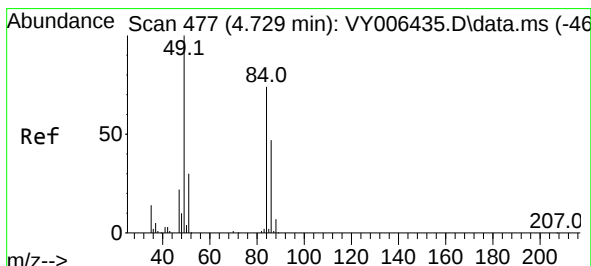
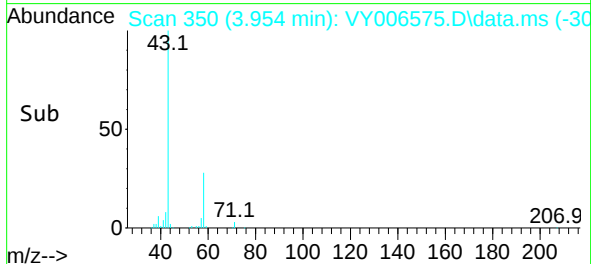
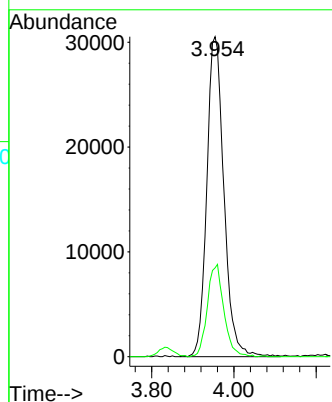
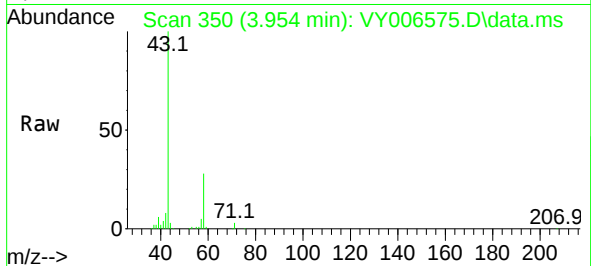




#16
Acetone
Concen: 171.854 ug/l
RT: 3.954 min Scan# 350
Delta R.T. -0.000 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

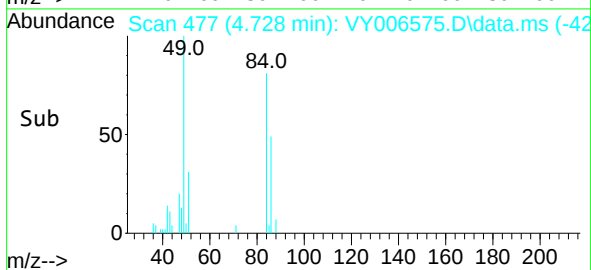
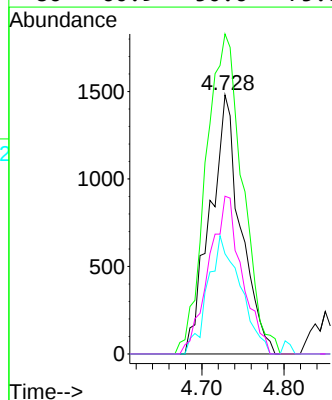
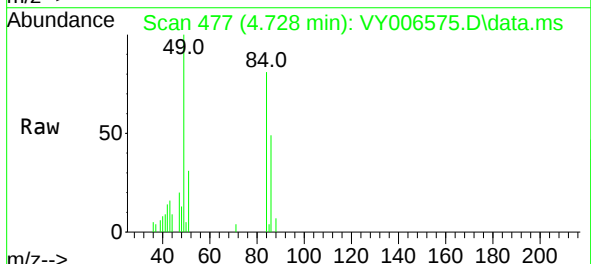
Instrument :
MSVOA_N
ClientSampleId :

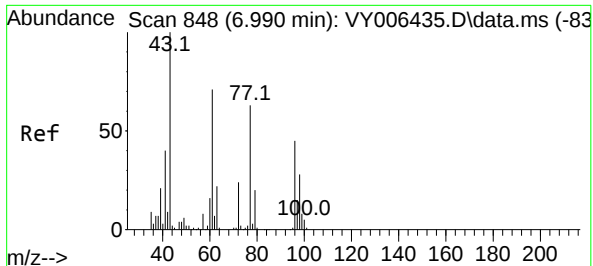
Tgt Ion: 43 Resp: 88090
Ion Ratio Lower Upper
43 100
58 27.8 22.9 34.3



#20
Methylene Chloride
Concen: Below Cal
RT: 4.728 min Scan# 477
Delta R.T. -0.001 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Tgt Ion: 84 Resp: 3833
Ion Ratio Lower Upper
84 100
49 123.5 107.8 161.8
51 38.6 32.8 49.2
86 60.9 50.6 75.8





#25

2-Butanone

Concen: 50.026 ug/l

RT: 6.996 min Scan# 84

Delta R.T. 0.006 min

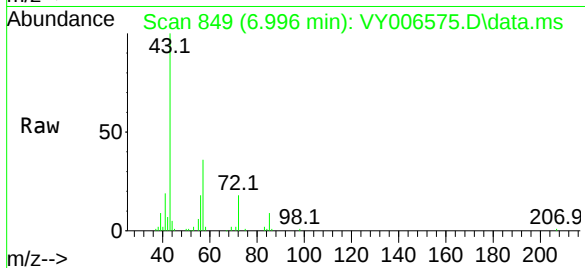
Lab File: VY006575.D

Acq: 02 Nov 2021 14:17

Instrument :

MSVOA_N

ClientSampleId :

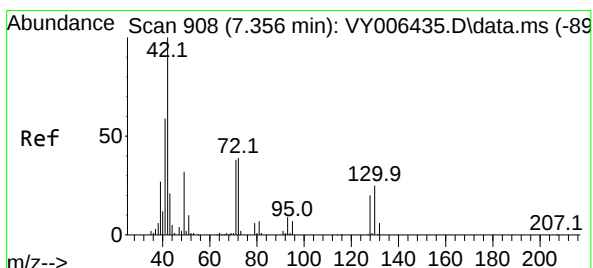
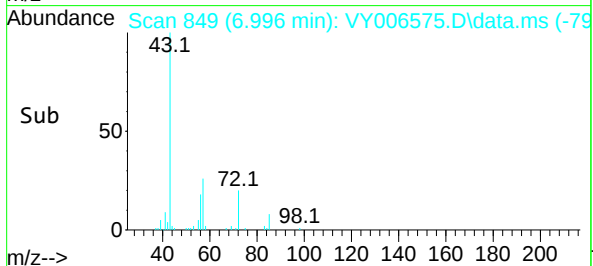
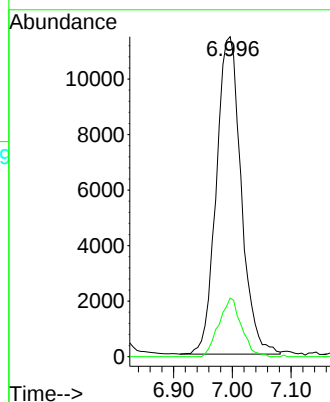


Tgt Ion: 43 Resp: 33594

Ion Ratio Lower Upper

43 100

72 18.5 18.9 28.3#



#29

Tetrahydrofuran

Concen: 1.917 ug/l

RT: 7.362 min Scan# 909

Delta R.T. 0.006 min

Lab File: VY006575.D

Acq: 02 Nov 2021 14:17

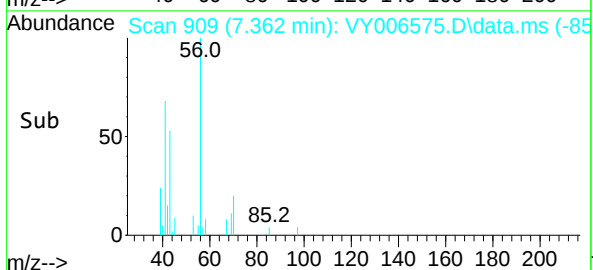
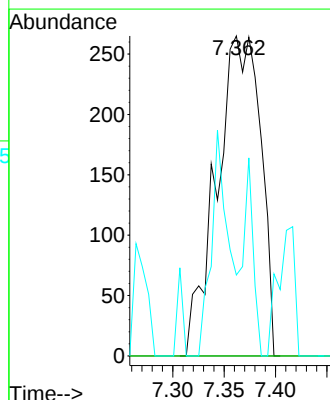
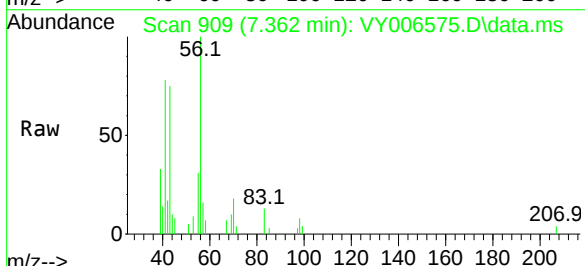
Tgt Ion: 42 Resp: 790

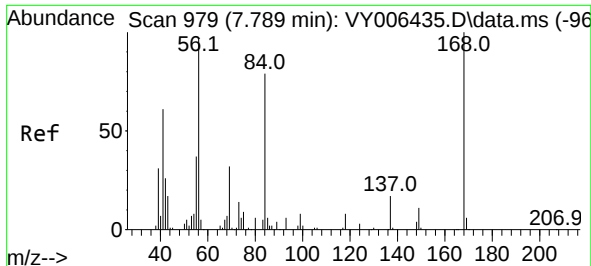
Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

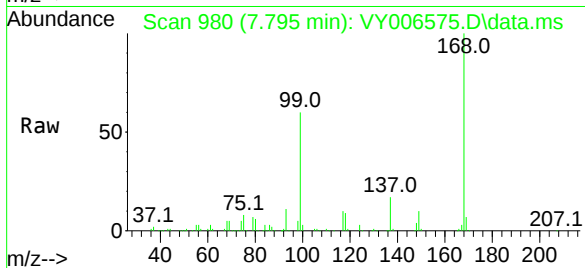
71 13.7 30.3 45.5#



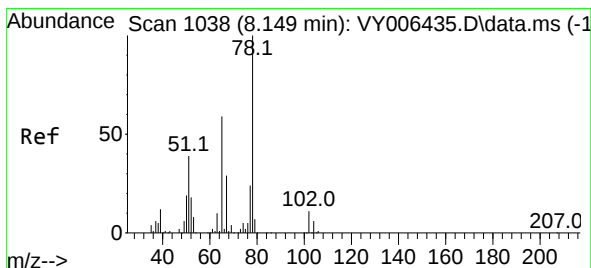
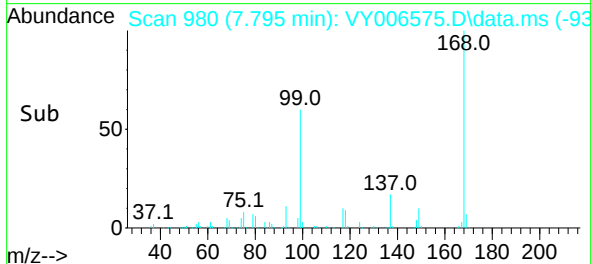
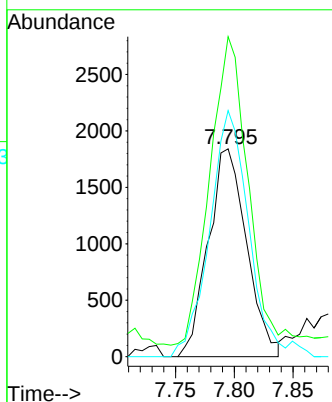


#31
Cyclohexane
Concen: 1.454 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Instrument :
MSVOA_N
ClientSampleId :

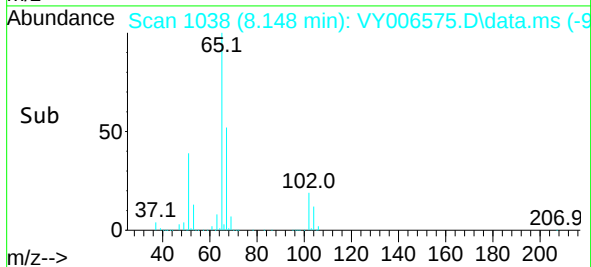
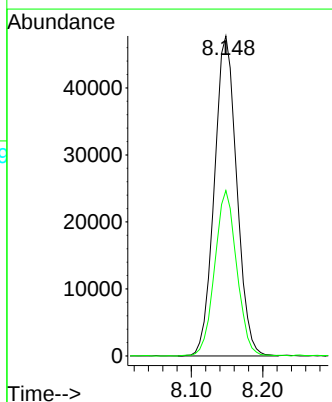
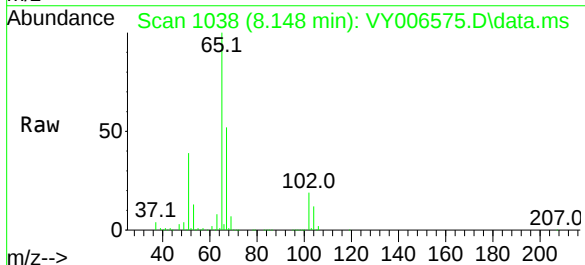


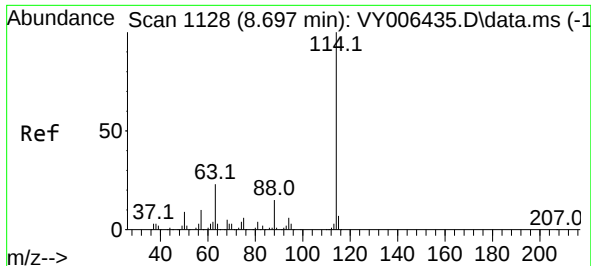
Tgt Ion: 56 Resp: 4191
Ion Ratio Lower Upper
56 100
69 147.6 26.6 40.0#
84 112.9 65.0 97.4#



#33
1,2-Dichloroethane-d4
Concen: 58.300 ug/l
RT: 8.148 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Tgt Ion: 65 Resp: 103783
Ion Ratio Lower Upper
65 100
67 51.0 0.0 98.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VY006575.D

Acq: 02 Nov 2021 14:17

Instrument :

MSVOA_N

ClientSampleId :

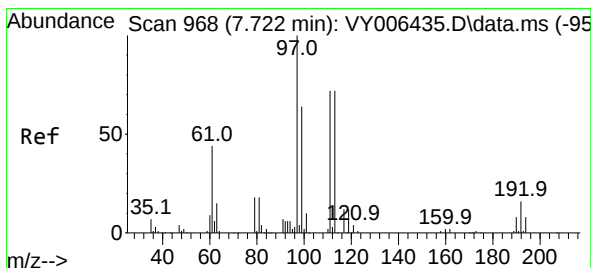
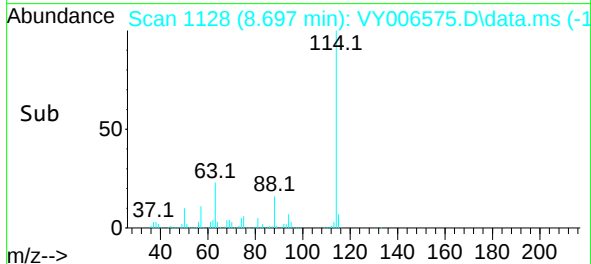
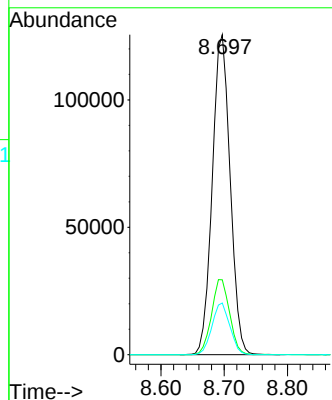
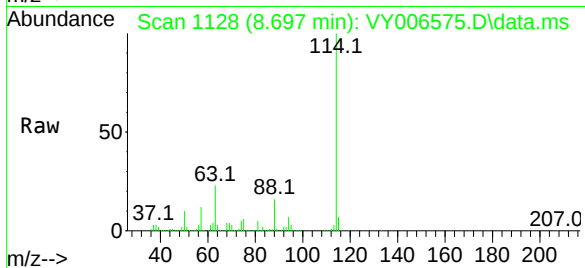
Tgt Ion:114 Resp: 246054

Ion Ratio Lower Upper

114 100

63 23.4 0.0 45.0

88 16.2 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.291 ug/l

RT: 7.728 min Scan# 969

Delta R.T. 0.006 min

Lab File: VY006575.D

Acq: 02 Nov 2021 14:17

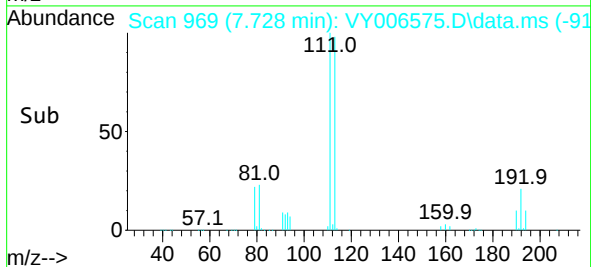
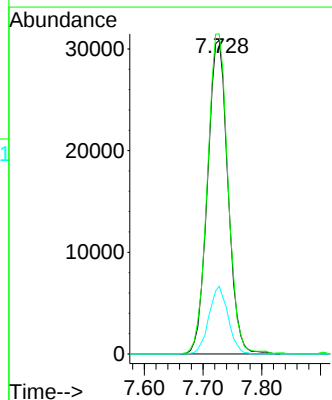
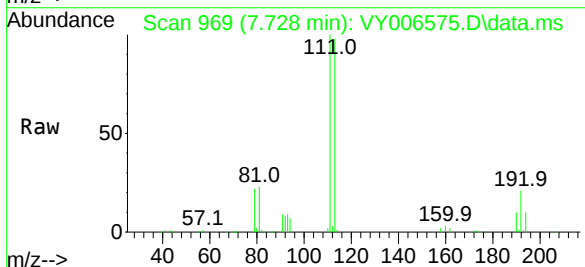
Tgt Ion:113 Resp: 74456

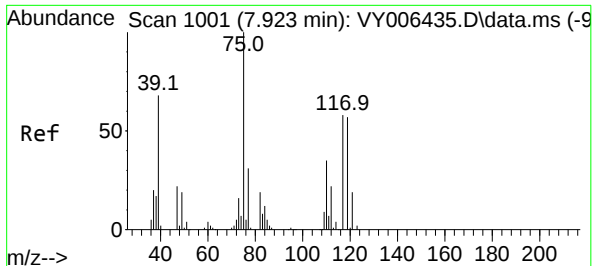
Ion Ratio Lower Upper

113 100

111 103.2 82.3 123.5

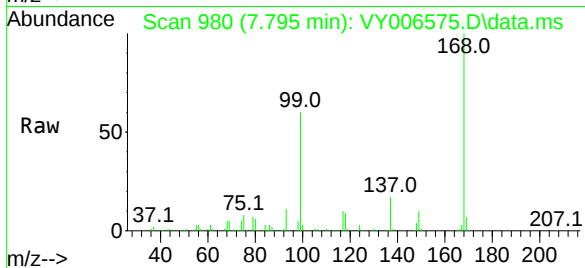
192 20.2 17.4 26.2



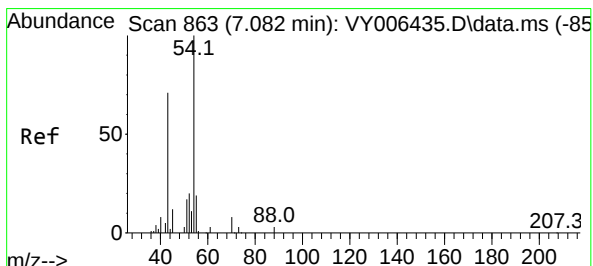
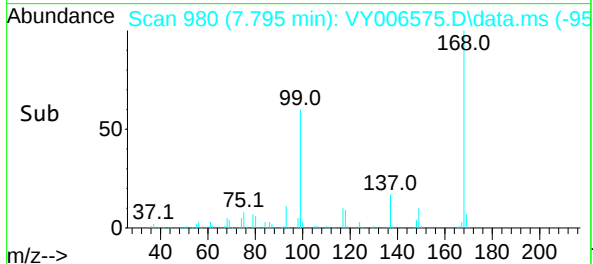
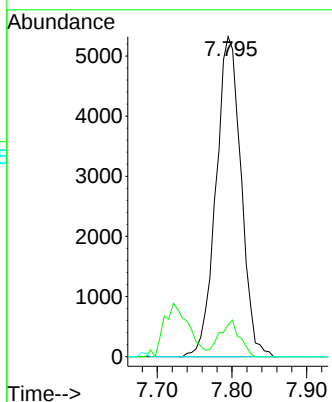


#36
1,1-Dichloropropene
Concen: 5.100 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Instrument :
MSVOA_N
ClientSampleId :

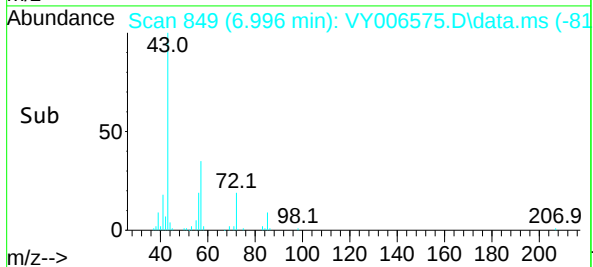
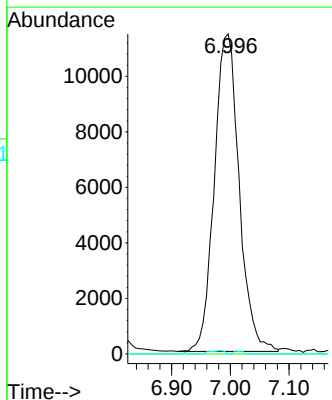
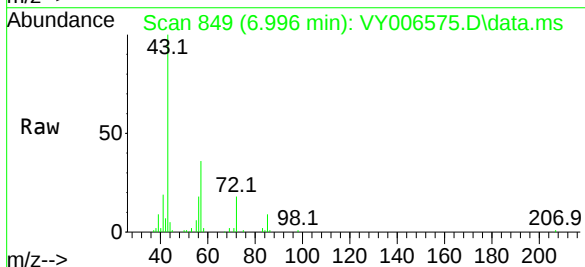


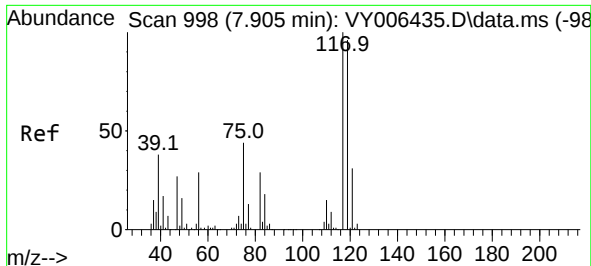
Tgt Ion: 75 Resp: 12399
Ion Ratio Lower Upper
75 100
110 9.3 17.1 51.3#
77 0.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 21.834 ug/l
RT: 6.996 min Scan# 849
Delta R.T. -0.086 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

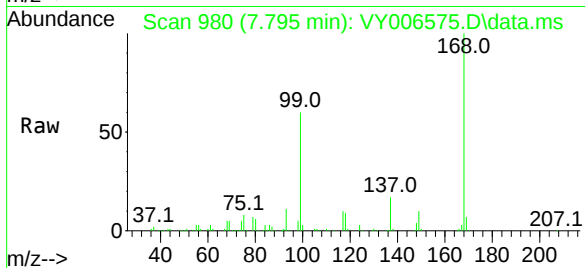
Tgt Ion: 43 Resp: 33594
Ion Ratio Lower Upper
43 100
61 0.0 9.4 14.2#
70 0.6 6.9 10.3#



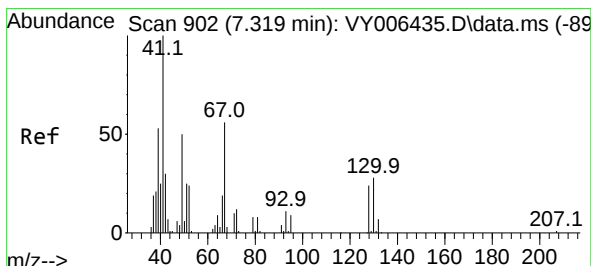
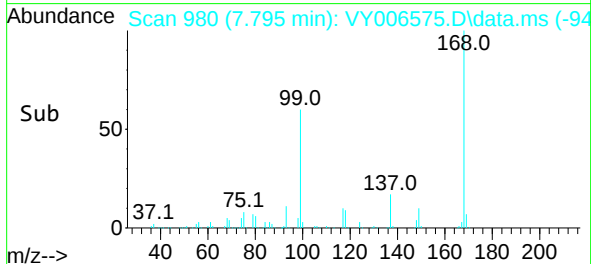
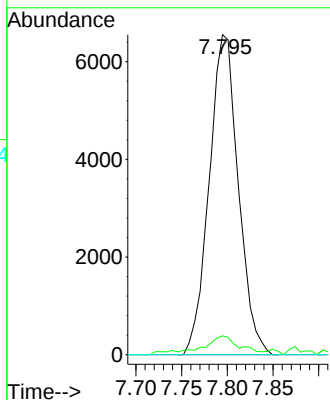


#38
Carbon Tetrachloride
Concen: 5.412 ug/l
RT: 7.795 min Scan# 911
Delta R.T. -0.110 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Instrument :
MSVOA_N
ClientSampleId :

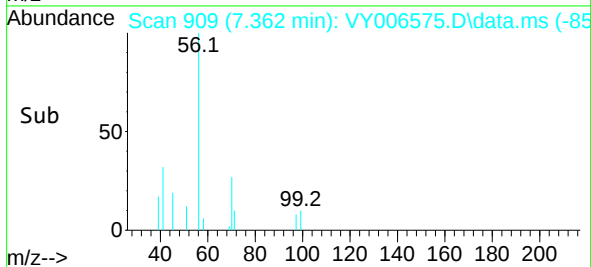
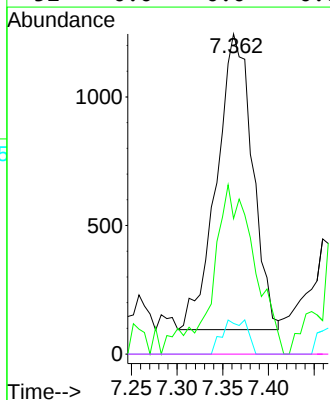
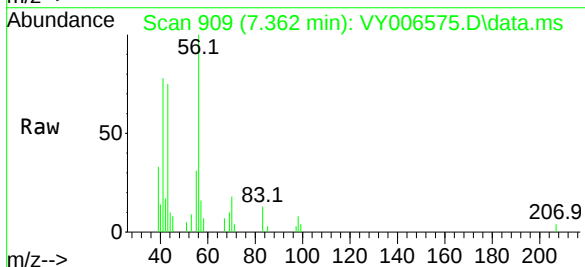


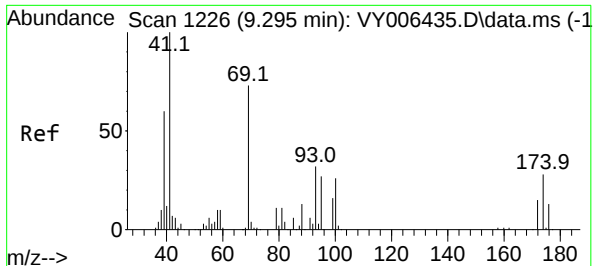
Tgt Ion:117 Resp: 14516
Ion Ratio Lower Upper
117 100
119 5.1 76.6 115.0#
121 0.0 24.7 37.1#



#41
Methacrylonitrile
Concen: 3.592 ug/l
RT: 7.362 min Scan# 909
Delta R.T. 0.042 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Tgt Ion: 41 Resp: 3136
Ion Ratio Lower Upper
41 100
39 67.2 109.0 163.6#
67 8.1 0.0 0.0#
52 0.0 0.0 0.0





#48

Methyl methacrylate

Concen: 4.203 ug/l

RT: 9.325 min Scan# 1

Delta R.T. 0.030 min

Lab File: VY006575.D

Acq: 02 Nov 2021 14:17

Instrument :

MSVOA_N

ClientSampleId :

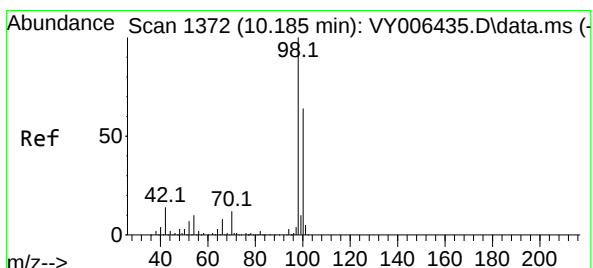
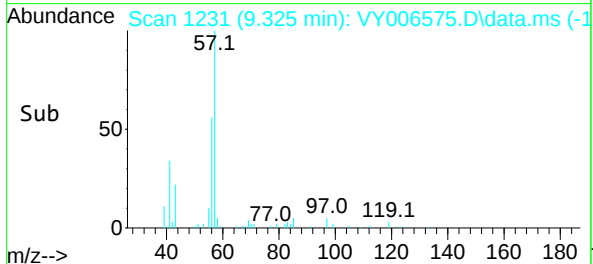
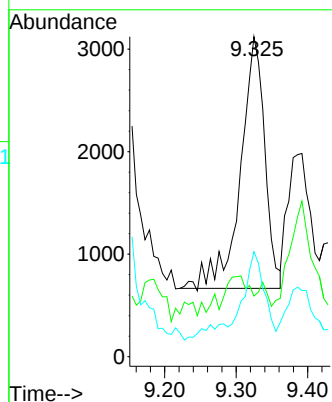
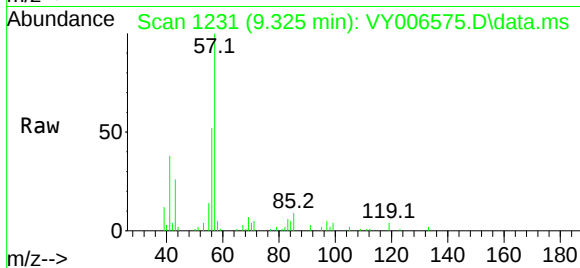
Tgt Ion: 41 Resp: 5814

Ion Ratio Lower Upper

41 100

69 15.1 60.4 90.6#

39 32.5 48.2 72.2#



#50

Toluene-d8

Concen: 54.421 ug/l

RT: 10.184 min Scan# 1372

Delta R.T. -0.000 min

Lab File: VY006575.D

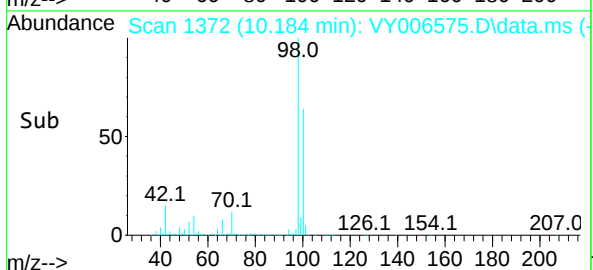
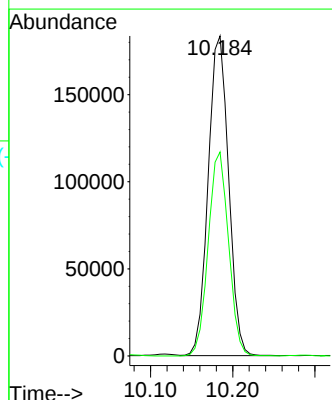
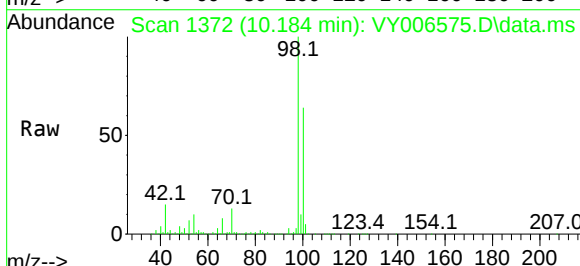
Acq: 02 Nov 2021 14:17

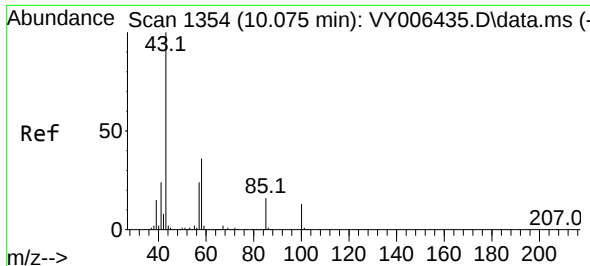
Tgt Ion: 98 Resp: 316388

Ion Ratio Lower Upper

98 100

100 63.6 50.9 76.3

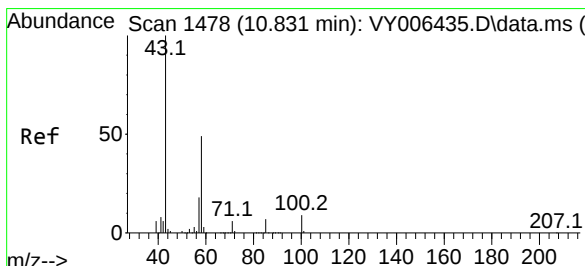
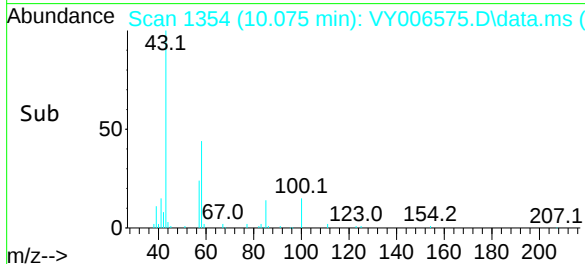
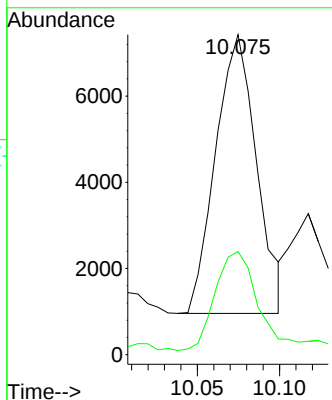
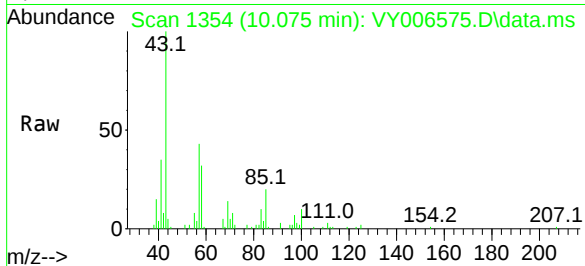




#51
4-Methyl-2-Pentanone
Concen: 7.164 ug/l
RT: 10.075 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

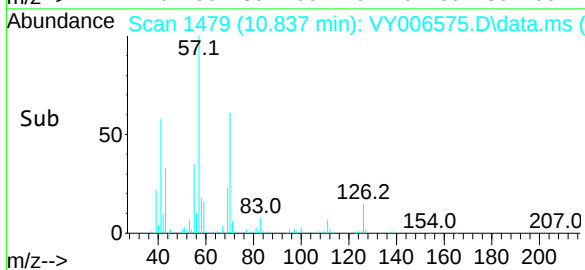
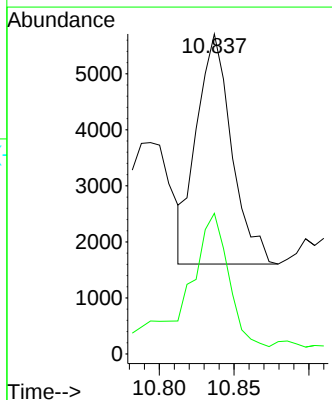
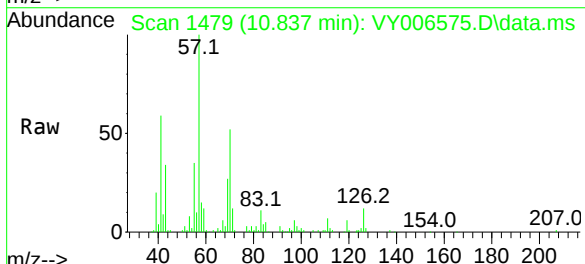
Instrument :
MSVOA_N
ClientSampleId :

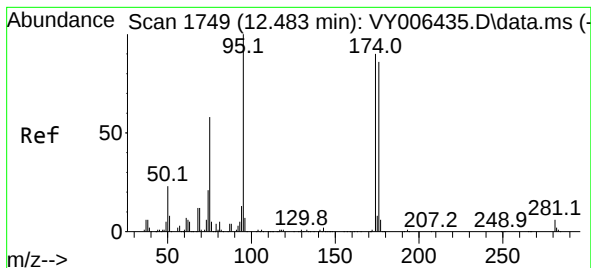
Tgt Ion: 43 Resp: 11209
Ion Ratio Lower Upper
43 100
58 41.4 28.7 43.1



#59
2-Hexanone
Concen: 5.913 ug/l
RT: 10.837 min Scan# 1479
Delta R.T. 0.006 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Tgt Ion: 43 Resp: 6696
Ion Ratio Lower Upper
43 100
58 70.5 24.6 73.6

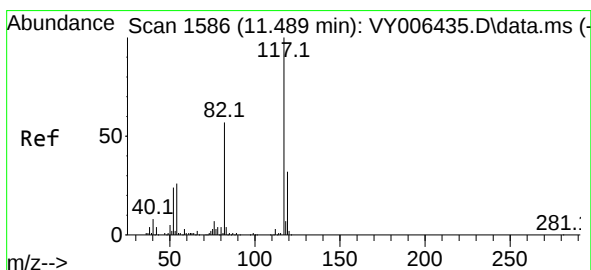
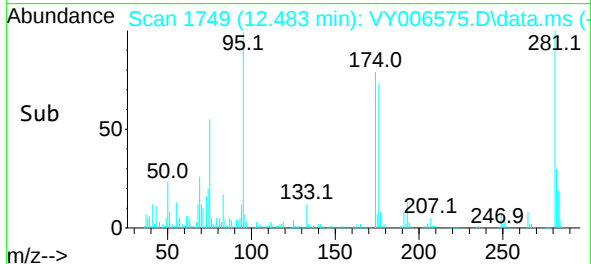
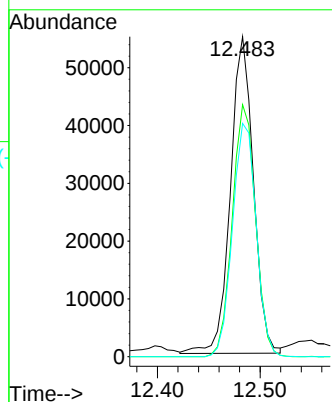
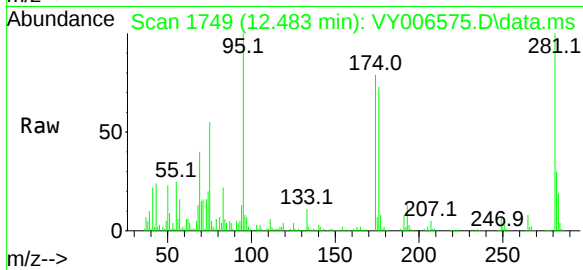




#62
4-Bromofluorobenzene
Concen: 43.516 ug/l
RT: 12.483 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

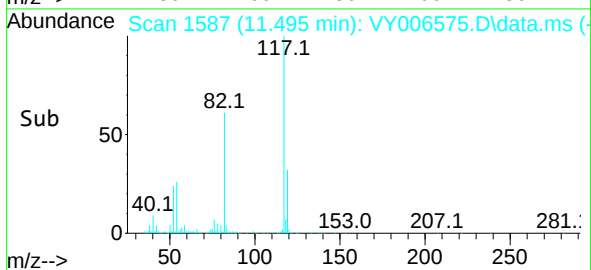
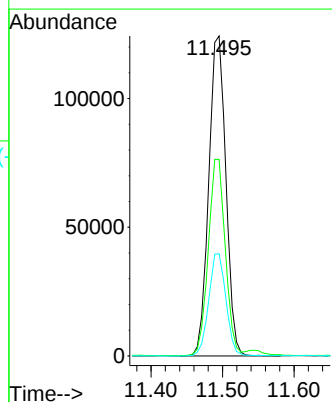
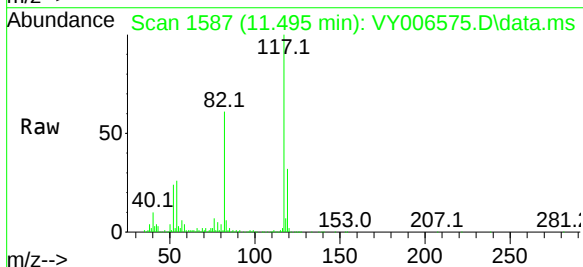
Instrument :
MSVOA_N
ClientSampleId :

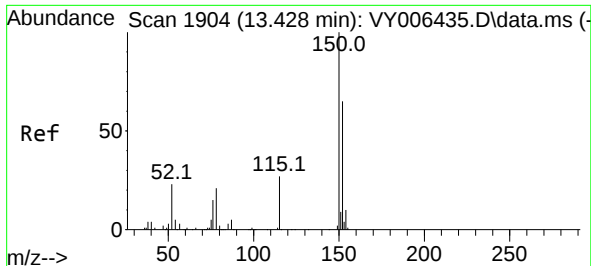
Tgt Ion: 95 Resp: 85222
Ion Ratio Lower Upper
95 100
174 80.2 0.0 177.0
176 76.0 0.0 169.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Tgt Ion: 117 Resp: 206760
Ion Ratio Lower Upper
117 100
82 61.3 45.7 68.5
119 32.0 25.5 38.3

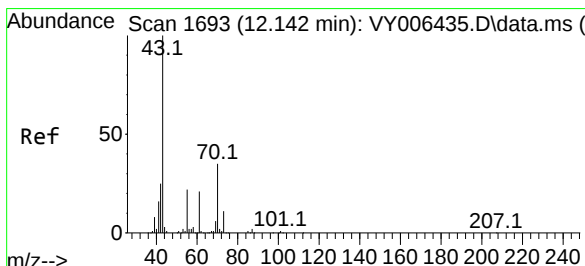
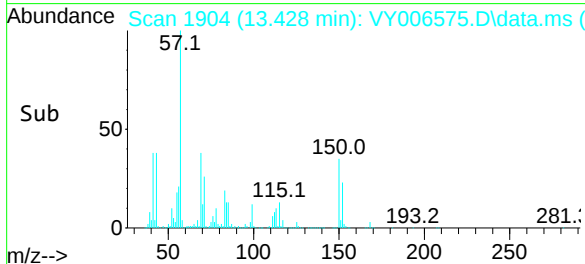
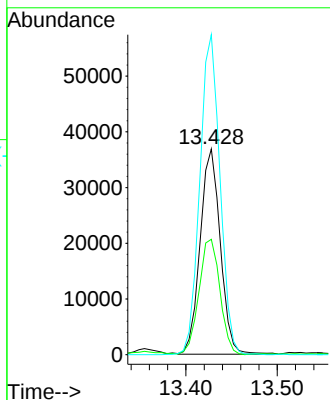
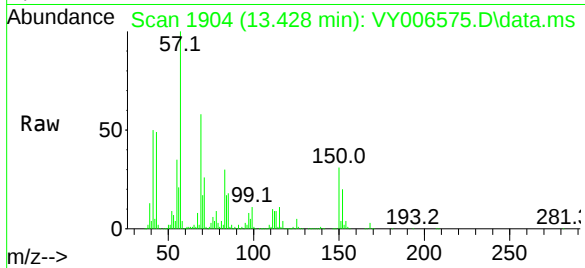




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

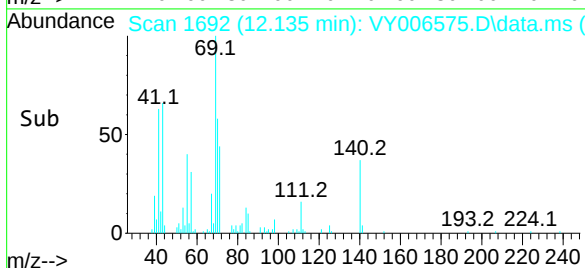
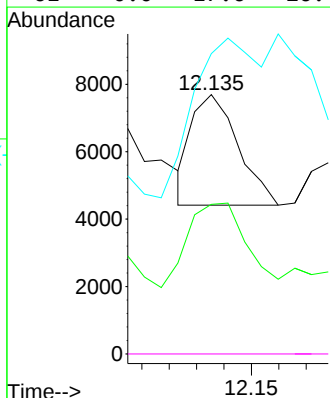
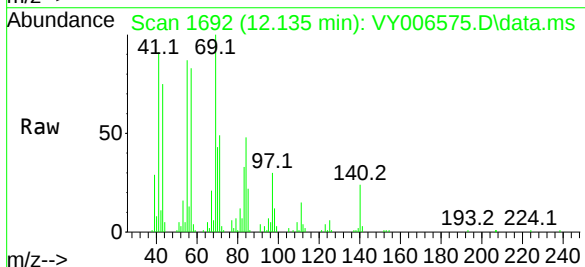
Instrument :
MSVOA_N
ClientSampleId :

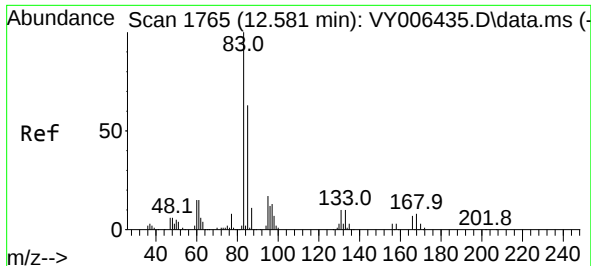
Tgt Ion:152 Resp: 56394
Ion Ratio Lower Upper
152 100
115 58.6 28.5 85.5
150 155.8 0.0 348.2



#74
N-ethyl acetate
Concen: 2.951 ug/l
RT: 12.135 min Scan# 1692
Delta R.T. -0.006 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Tgt Ion: 43 Resp: 3862
Ion Ratio Lower Upper
43 100
70 116.3 29.4 44.0#
55 205.1 18.1 27.1#
61 0.0 17.6 26.4#

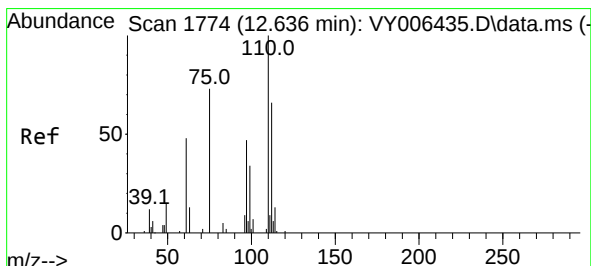
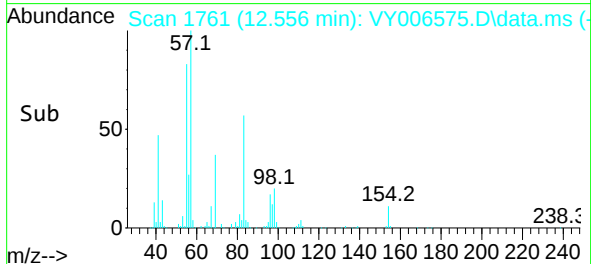
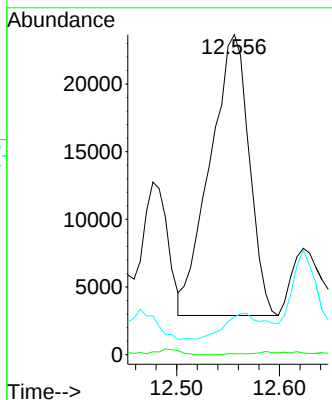
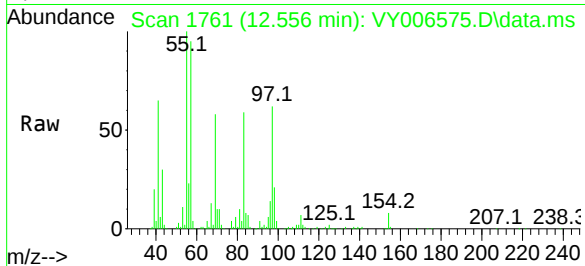




#75
1,1,2,2-Tetrachloroethane
Concen: 80.047 ug/l
RT: 12.556 min Scan# 1749
Delta R.T. -0.025 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

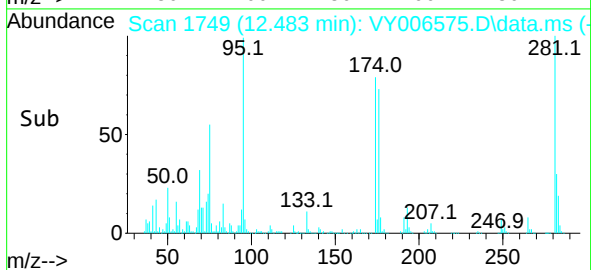
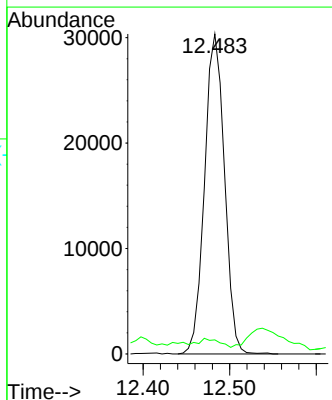
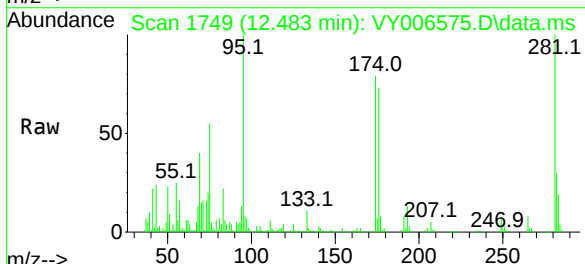
Instrument :
MSVOA_N
ClientSampleId :

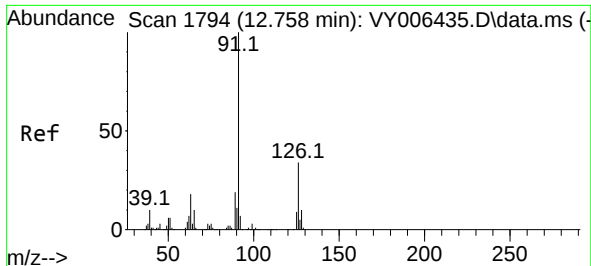
Tgt Ion: 83 Resp: 54668
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.4#
85 9.7 31.9 95.9#



#76
1,2,3-Trichloropropane
Concen: 83.493 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.153 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Tgt Ion: 75 Resp: 48520
Ion Ratio Lower Upper
75 100
77 2.9 0.0 0.0#





#79

2-Chlorotoluene

Concen: 1.740 ug/l

RT: 12.538 min Scan# 1758

Delta R.T. -0.220 min

Lab File: VY006575.D

Acq: 02 Nov 2021 14:17

Instrument :

MSVOA_N

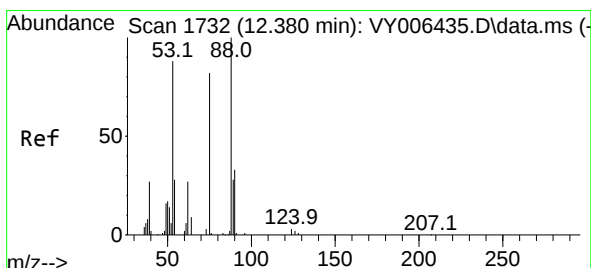
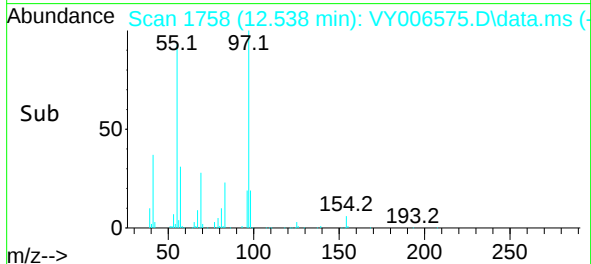
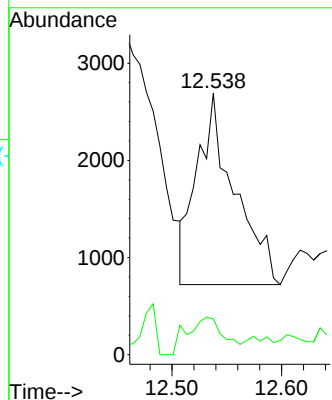
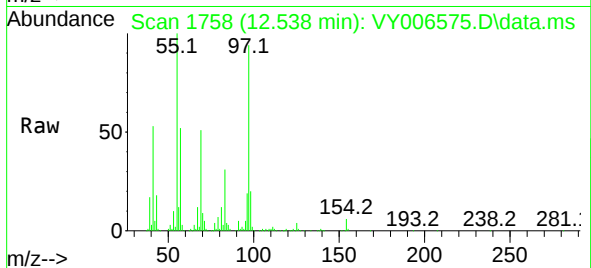
ClientSampleId :

Tgt Ion: 91 Resp: 4696

Ion Ratio Lower Upper

91 100

126 19.3 17.1 51.2



#81

trans-1,4-Dichloro-2-butene

Concen: 171.408 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.103 min

Lab File: VY006575.D

Acq: 02 Nov 2021 14:17

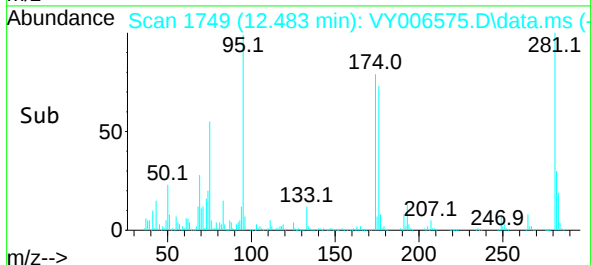
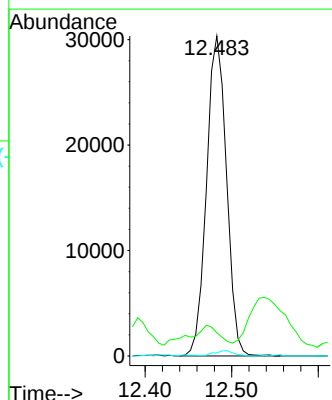
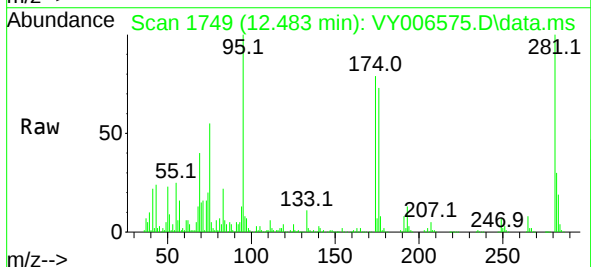
Tgt Ion: 75 Resp: 48520

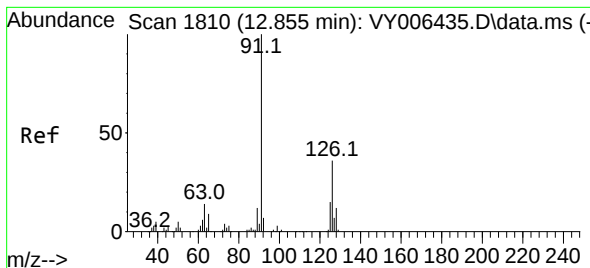
Ion Ratio Lower Upper

75 100

53 8.8 85.8 128.6#

89 0.0 39.3 58.9#





#82

4-Chlorotoluene

Concen: 208.826 ug/l

RT: 13.074 min Scan# 1846

Delta R.T. 0.219 min

Lab File: VY006575.D

Acq: 02 Nov 2021 14:17

Instrument :

MSVOA_N

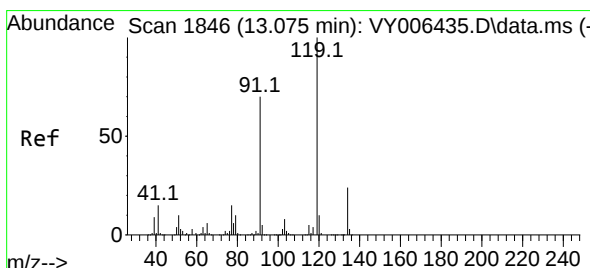
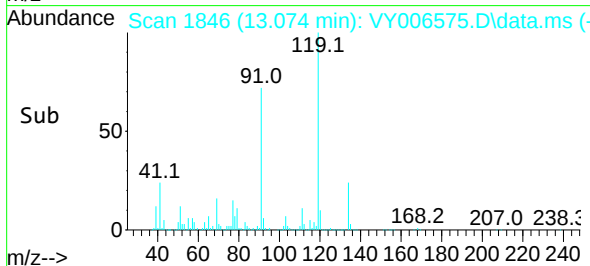
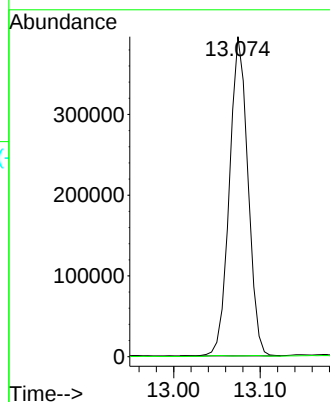
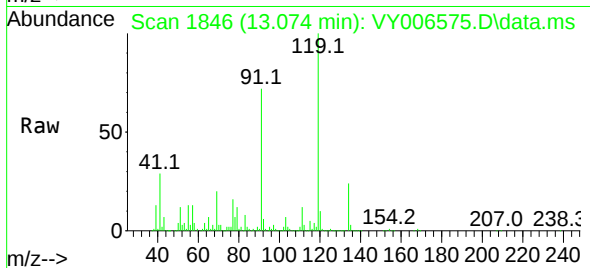
ClientSampleId :

Tgt Ion: 91 Resp: 587279

Ion Ratio Lower Upper

91 100

126 0.2 16.8 50.4#



#83

tert-Butylbenzene

Concen: 291.265 ug/l

RT: 13.074 min Scan# 1846

Delta R.T. -0.000 min

Lab File: VY006575.D

Acq: 02 Nov 2021 14:17

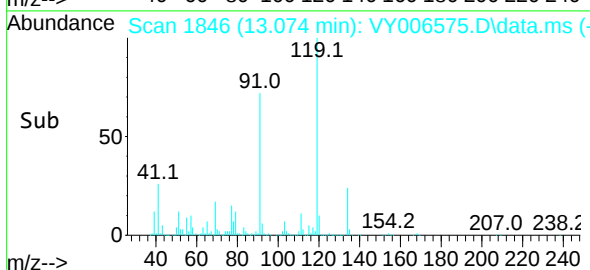
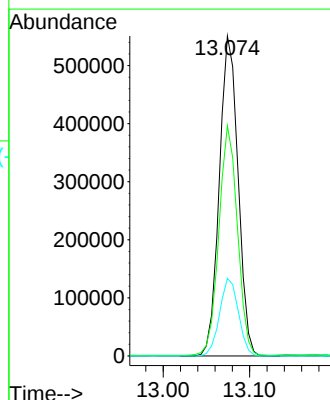
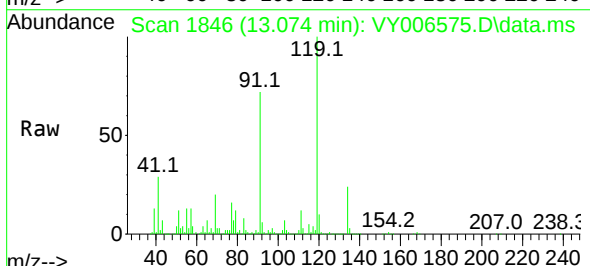
Tgt Ion: 119 Resp: 826759

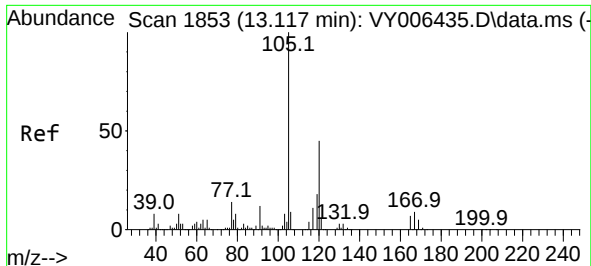
Ion Ratio Lower Upper

119 100

91 71.0 34.8 104.5

134 24.3 13.0 38.9

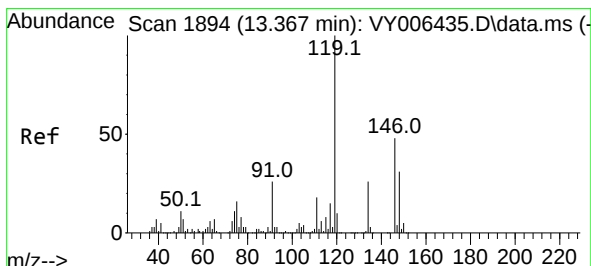
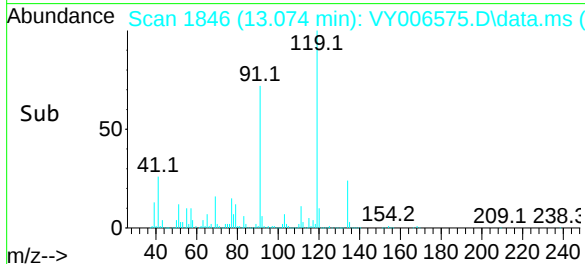
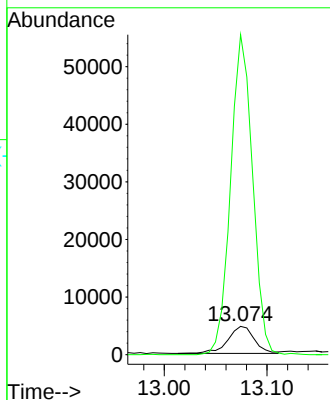
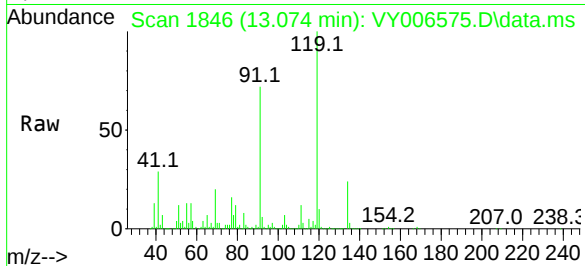




#84
1,2,4-Trimethylbenzene
Concen: 2.553 ug/l
RT: 13.074 min Scan# 1846
Delta R.T. -0.043 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

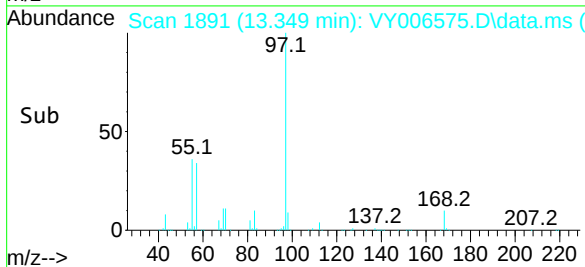
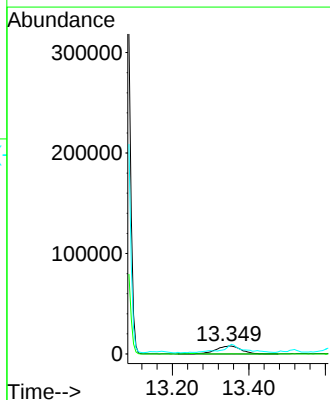
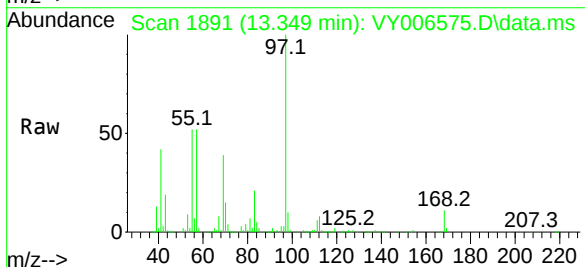
Instrument :
MSVOA_N
ClientSampleId :

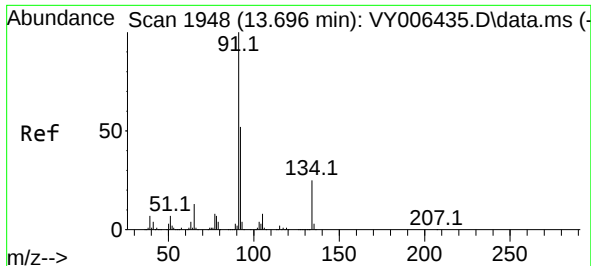
Tgt Ion:105 Resp: 8431
Ion Ratio Lower Upper
105 100
120 981.4 22.6 67.8#



#86
p-Isopropyltoluene
Concen: 9.887 ug/l
RT: 13.349 min Scan# 1891
Delta R.T. -0.019 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Tgt Ion:119 Resp: 35950
Ion Ratio Lower Upper
119 100
134 0.0 13.1 39.1#
91 35.9 12.4 37.4





#89

n-Butylbenzene

Concen: 1.035 ug/l

RT: 13.678 min Scan# 1945

Delta R.T. -0.019 min

Lab File: VY006575.D

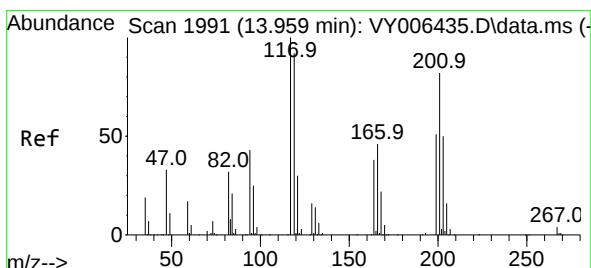
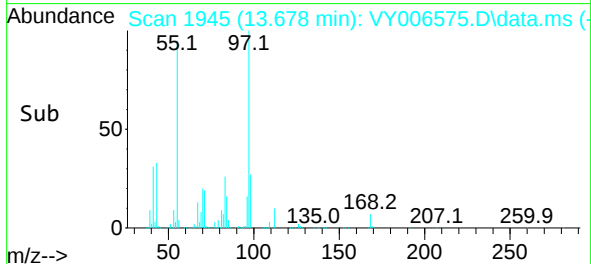
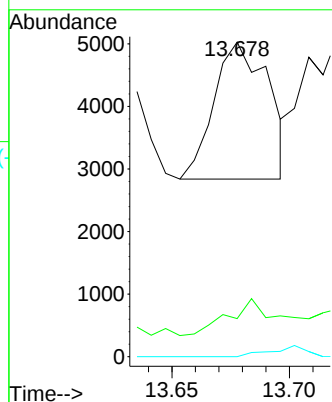
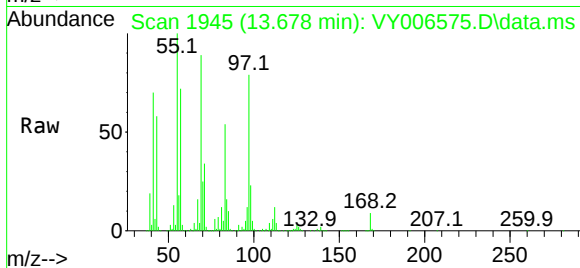
Acq: 02 Nov 2021 14:17

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp:	3540
Ion Ratio	Lower	Upper
91	100	
92	26.4	26.3 78.9
134	0.0	12.9 38.7#



#90

Hexachloroethane

Concen: 110.516 ug/l

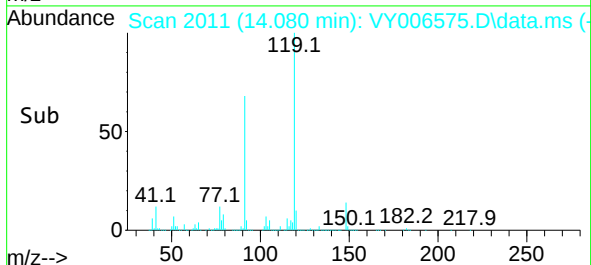
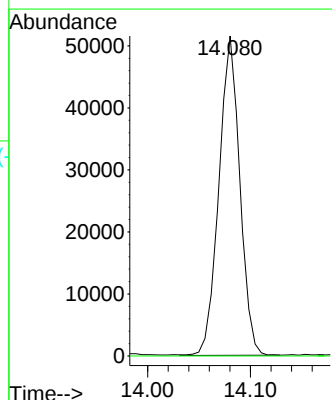
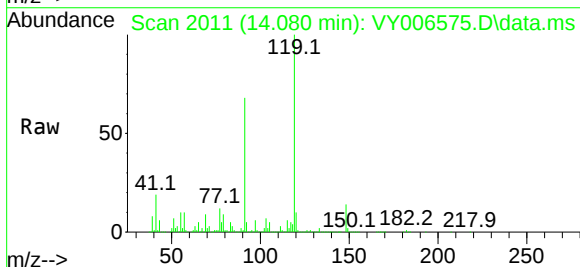
RT: 14.080 min Scan# 2011

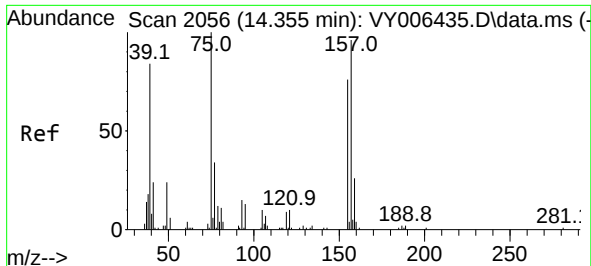
Delta R.T. 0.122 min

Lab File: VY006575.D

Acq: 02 Nov 2021 14:17

Tgt Ion: 117	Resp:	72575
Ion Ratio	Lower	Upper
117	100	
201	0.0	43.4 130.1#

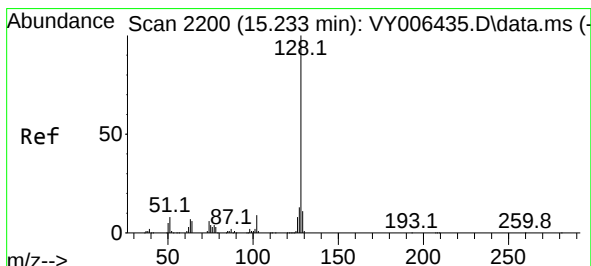
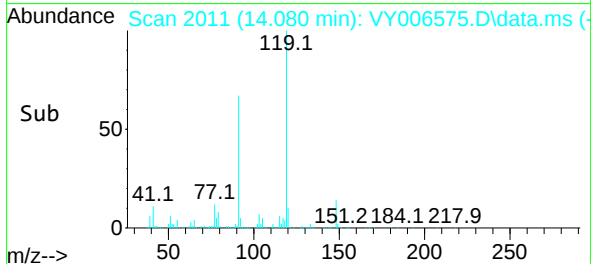
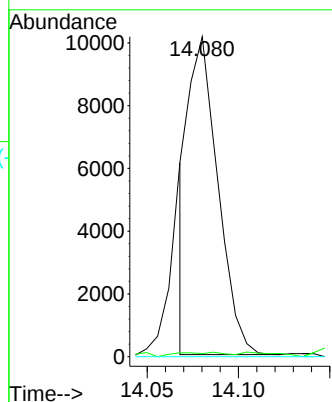
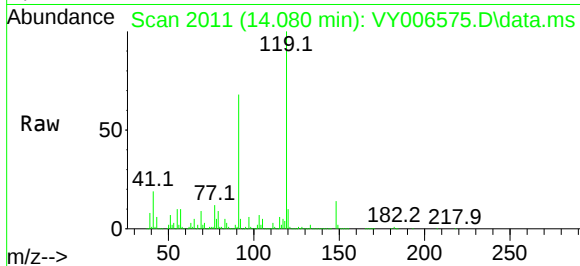




#92
1,2-Dibromo-3-Chloropropane
Concen: 78.069 ug/l
RT: 14.080 min Scan# 2056
Delta R.T. -0.275 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

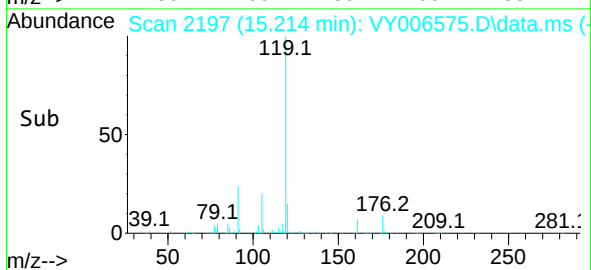
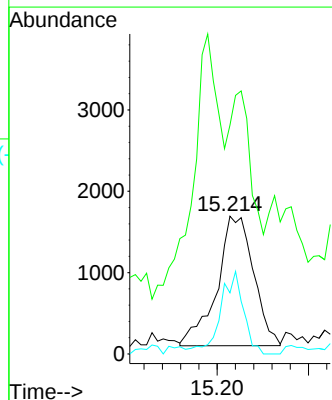
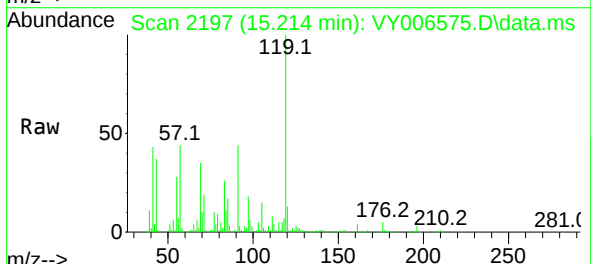
Instrument :
MSVOA_N
ClientSampleId :

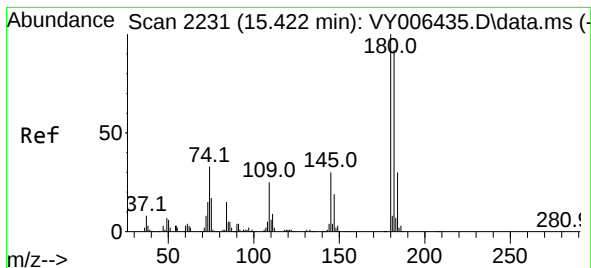
Tgt Ion: 75 Resp: 11319
Ion Ratio Lower Upper
75 100
155 0.0 39.0 116.9#
157 0.0 49.2 147.6#



#95
Naphthalene
Concen: 2.103 ug/l
RT: 15.214 min Scan# 2197
Delta R.T. -0.019 min
Lab File: VY006575.D
Acq: 02 Nov 2021 14:17

Tgt Ion: 128 Resp: 4445
Ion Ratio Lower Upper
128 100
127 75.4 11.0 16.4#
129 40.1 8.9 13.3#





#96

1,2,3-Trichlorobenzene

Concen: 2.098 ug/l

RT: 15.671 min Scan# 21

Delta R.T. 0.250 min

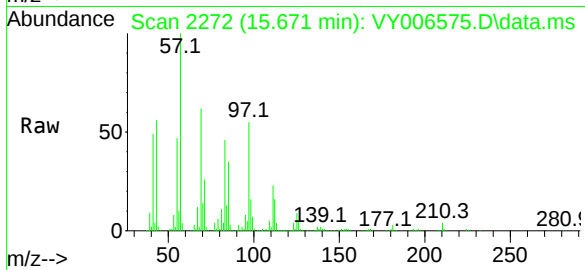
Lab File: VY006575.D

Acq: 02 Nov 2021 14:17

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 1984

Ion Ratio Lower Upper

180 100

182 85.7 47.8 143.4

145 19.3 15.3 45.8

