

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110221\
 Data File : VY006587.D
 Acq On : 02 Nov 2021 19:23
 Operator : SY/MD
 Sample : M4427-04
 Misc : 4.09G/5ML/MSVOA_Y/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 03 01:52:00 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)

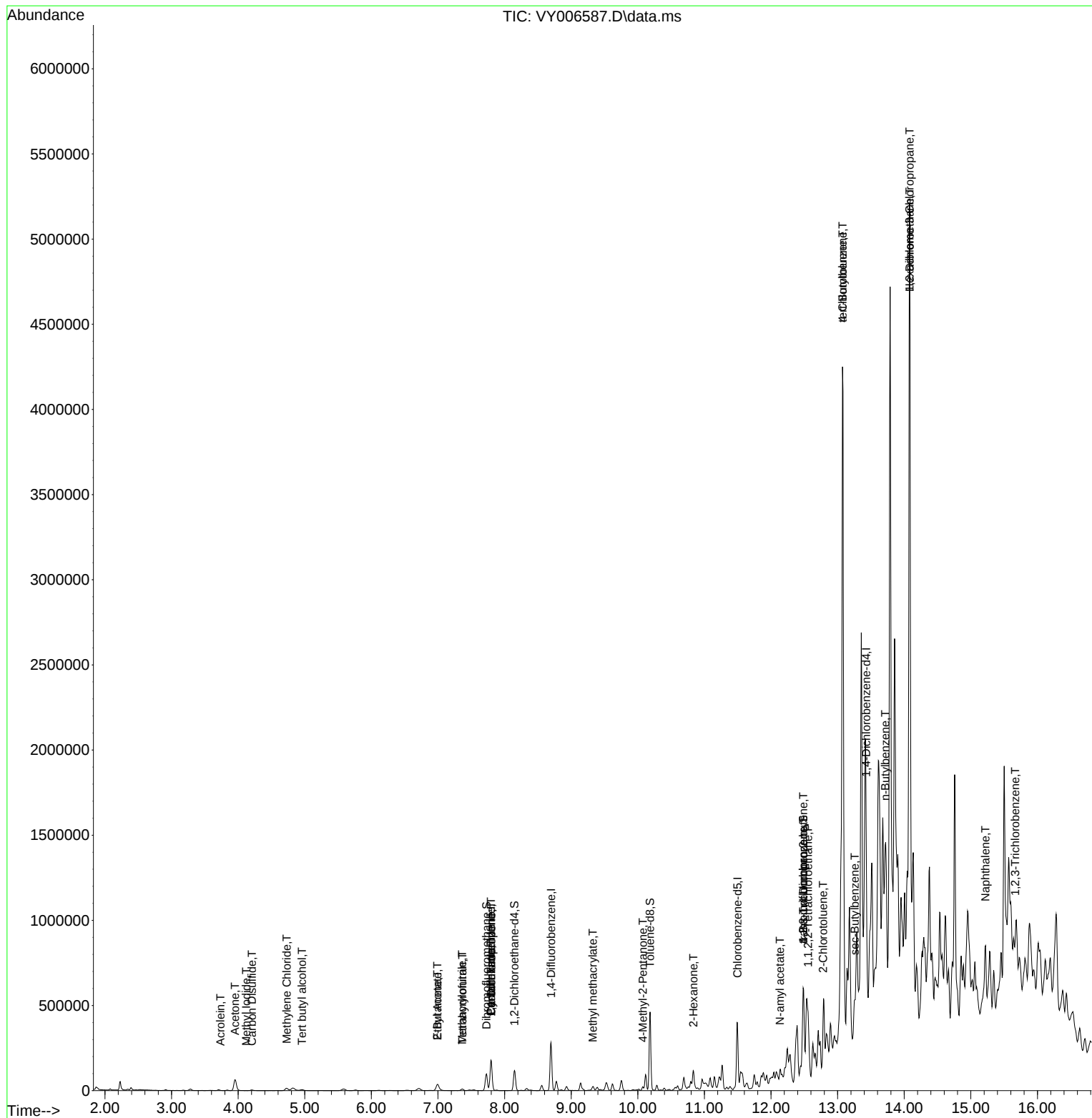
Internal Standards						
1) Pentafluorobenzene	7.795	168	130103	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	220605	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	187577	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	43437	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	94975	59.322	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 118.640%	
35) Dibromofluoromethane	7.728	113	66468	54.057	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.120%	
50) Toluene-d8	10.185	98	288588	55.366	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 110.740%	
62) 4-Bromofluorobenzene	12.483	95	75053	42.745	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 85.480%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.119	142	204	5.203	ug/l #	36
11) Tert butyl alcohol	4.960	59	10097	69.421	ug/l	99
13) Acrolein	3.735	56	192	1.910	ug/l #	14
16) Acetone	3.954	43	109686	237.929	ug/l	97
17) Carbon Disulfide	4.204	76	5947	1.544	ug/l	100
20) Methylene Chloride	4.728	84	8722	2.247	ug/l	93
25) 2-Butanone	6.990	43	44021	72.888	ug/l #	87
29) Tetrahydrofuran	7.368	42	969	2.615	ug/l #	36
31) Cyclohexane	7.795	56	3505	1.352	ug/l #	30
36) 1,1-Dichloropropene	7.801	75	11200	5.138	ug/l #	49
37) Ethyl Acetate	6.990	43	44021	31.911	ug/l #	73
38) Carbon Tetrachloride	7.795	117	12967	5.393	ug/l #	16
41) Methacrylonitrile	7.362	41	4429	5.658	ug/l #	31
48) Methyl methacrylate	9.325	41	6598	5.320	ug/l #	32
51) 4-Methyl-2-Pentanone	10.075	43	15003	10.695	ug/l	94
59) 2-Hexanone	10.837	43	9915	9.766	ug/l	84
74) N-amyl acetate	12.136	43	7786	7.725	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.556	83	94322	179.308	ug/l #	35
76) 1,2,3-Trichloropropane	12.483	75	42482	94.909	ug/l #	100
79) 2-Chlorotoluene	12.782	91	3018	1.452	ug/l #	41
81) trans-1,4-Dichloro-2-b...	12.483	75	42482	194.845	ug/l #	8
82) 4-Chlorotoluene	13.074	91	970470	448.017	ug/l #	42
83) tert-Butylbenzene	13.074	119	1358680	621.442	ug/l	98
85) sec-Butylbenzene	13.257	105	3654	1.113	ug/l #	56
89) n-Butylbenzene	13.715	91	5466	2.075	ug/l #	36
90) Hexachloroethane	14.080	117	100819	199.322	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.080	75	16418	147.016	ug/l #	5
95) Naphthalene	15.220	128	3577	2.197	ug/l #	42
96) 1,2,3-Trichlorobenzene	15.665	180	1645	2.258	ug/l	81

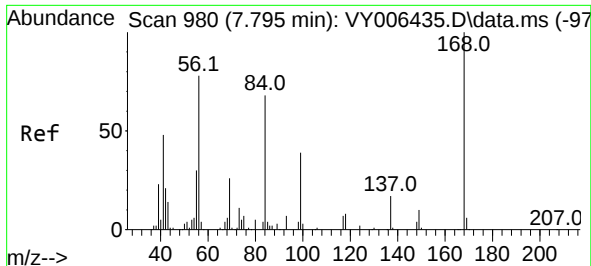
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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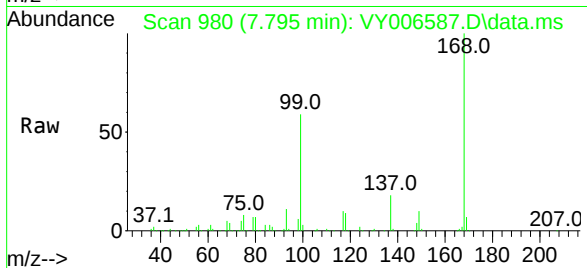
Quant Time: Nov 03 01:52:00 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y102221S.M
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QLast Update : Sat Oct 23 06:59:04 2021
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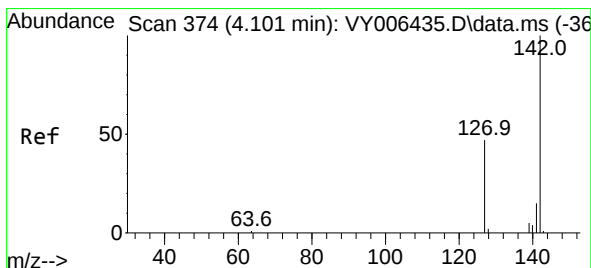
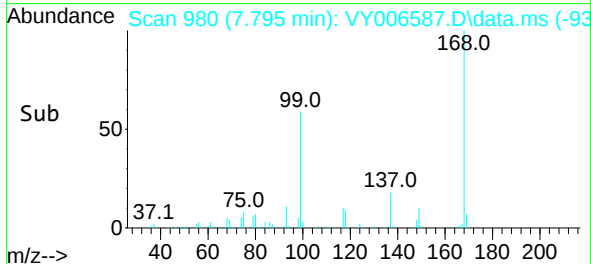
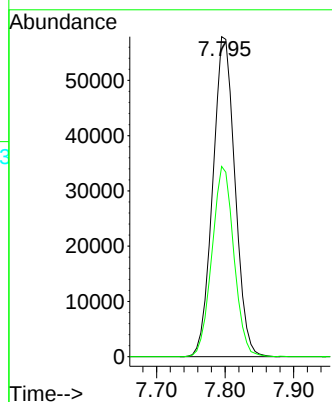


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Instrument :
MSVOA_N
ClientSampleId :

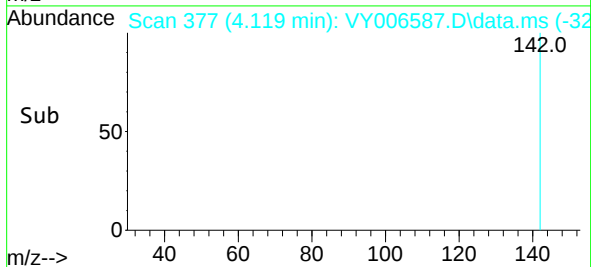
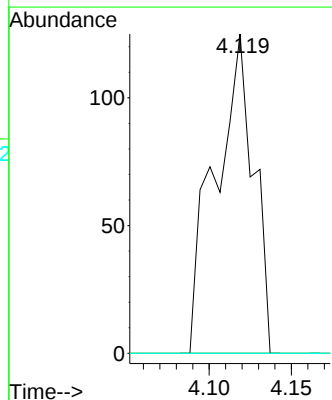
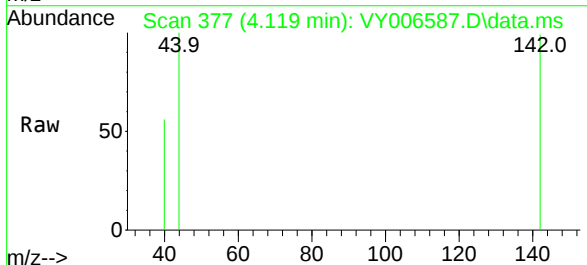


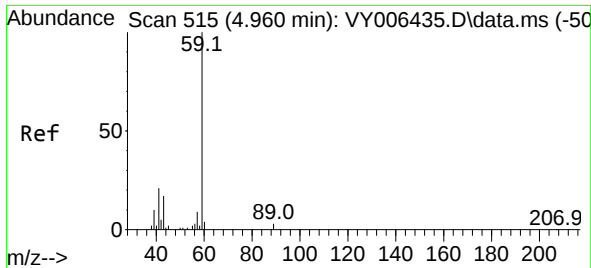
Tgt Ion:168 Resp: 130103
Ion Ratio Lower Upper
168 100
99 59.4 44.8 67.2



#10
Methyl Iodide
Concen: 5.203 ug/l
RT: 4.119 min Scan# 377
Delta R.T. 0.018 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

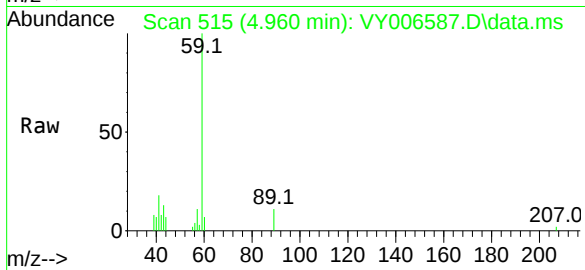
Tgt Ion:142 Resp: 204
Ion Ratio Lower Upper
142 100
127 0.0 40.1 60.1#
141 0.0 12.5 18.7#



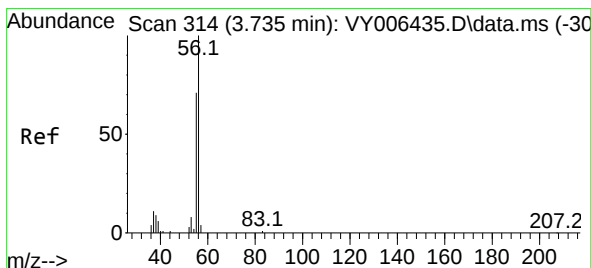
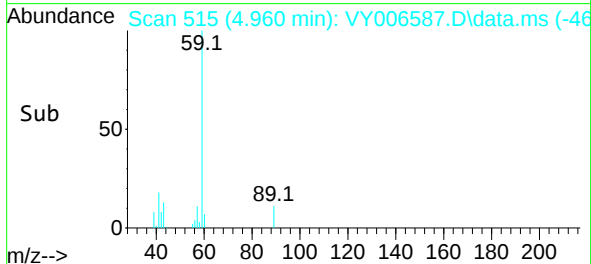
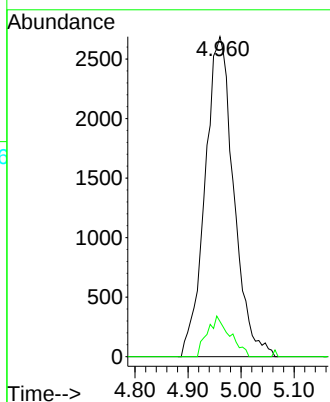


#11
Tert butyl alcohol
Concen: 69.421 ug/l
RT: 4.960 min Scan# 515
Delta R.T. -0.000 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Instrument :
MSVOA_N
ClientSampleId :

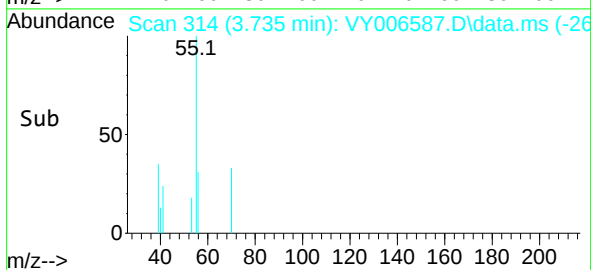
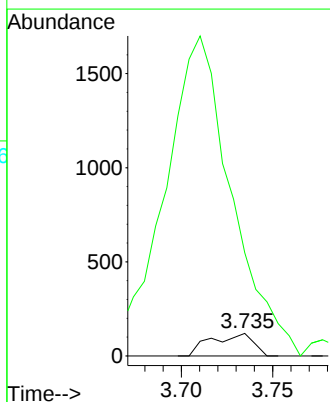
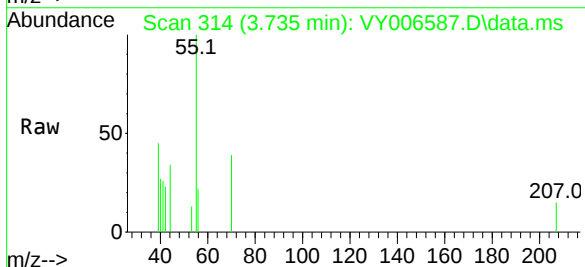


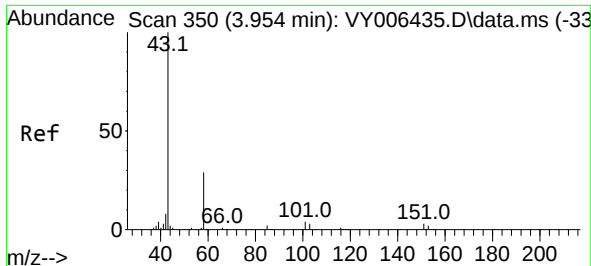
Tgt Ion: 59 Resp: 10097
Ion Ratio Lower Upper
59 100
57 10.0 8.2 12.4



#13
Acrolein
Concen: 1.910 ug/l
RT: 3.735 min Scan# 314
Delta R.T. -0.000 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Tgt Ion: 56 Resp: 192
Ion Ratio Lower Upper
56 100
55 0.0 57.1 85.7#

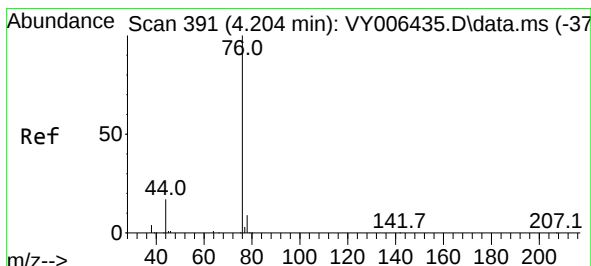
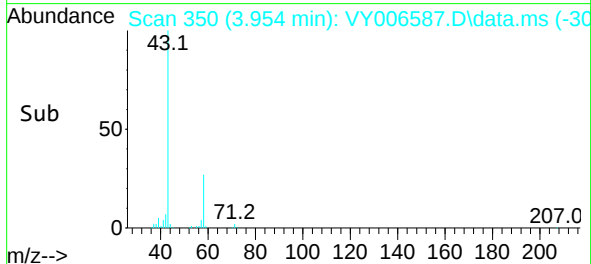
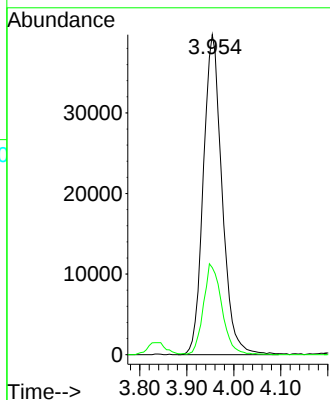
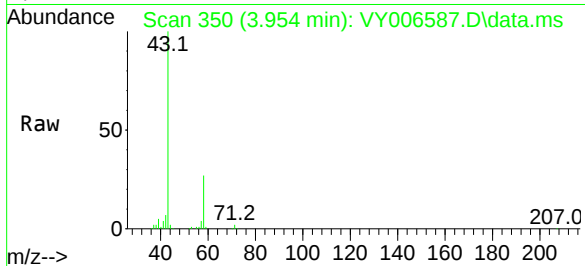




#16
Acetone
Concen: 237.929 ug/l
RT: 3.954 min Scan# 31
Delta R.T. -0.000 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

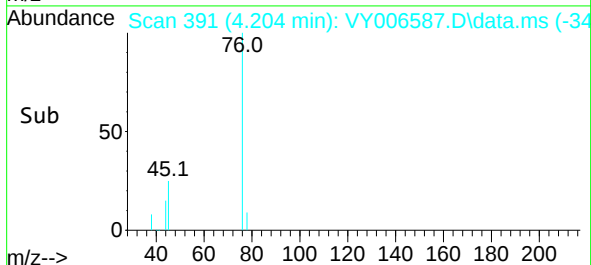
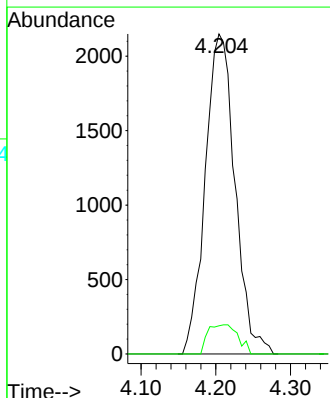
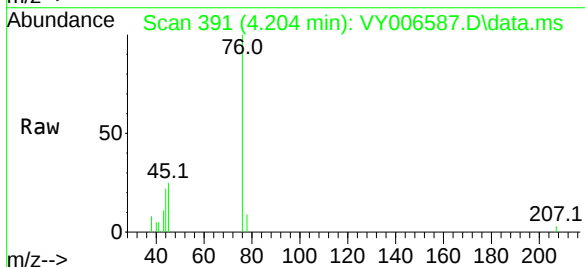
Instrument :
MSVOA_N
ClientSampleId :

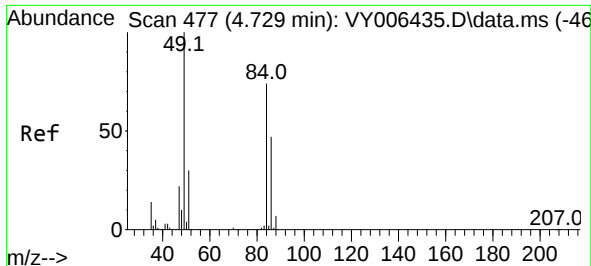
Tgt Ion: 43 Resp: 109686
Ion Ratio Lower Upper
43 100
58 27.2 22.9 34.3



#17
Carbon Disulfide
Concen: 1.544 ug/l
RT: 4.204 min Scan# 391
Delta R.T. -0.000 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

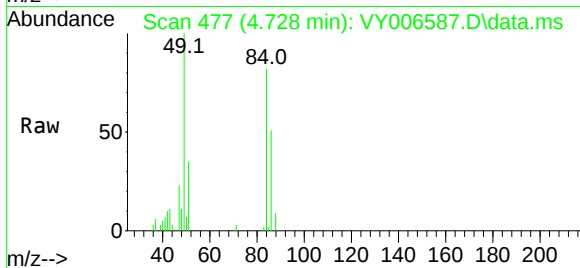
Tgt Ion: 76 Resp: 5947
Ion Ratio Lower Upper
76 100
78 8.8 7.1 10.7





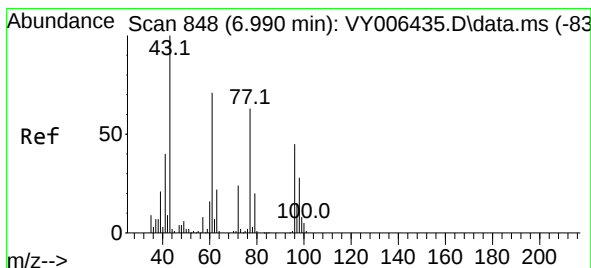
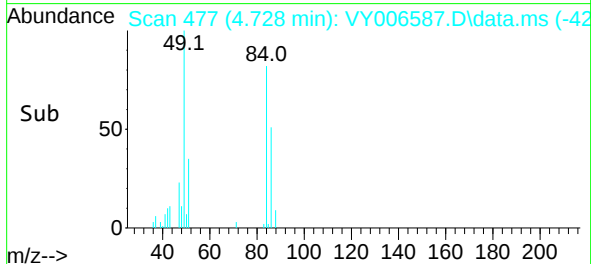
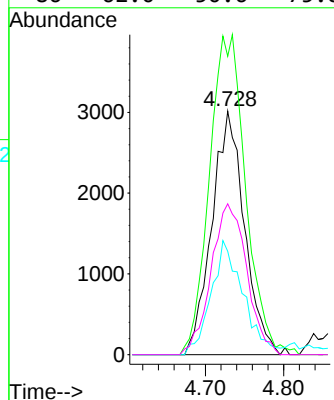
#20
Methylene Chloride
Concen: 2.247 ug/l
RT: 4.728 min Scan# 41
Delta R.T. -0.001 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 8722

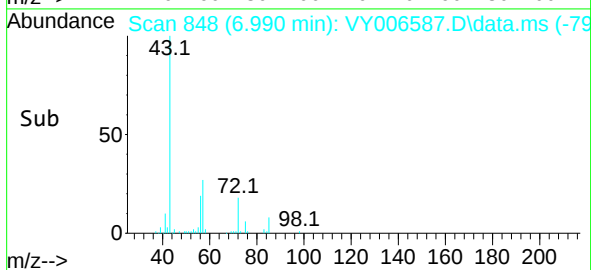
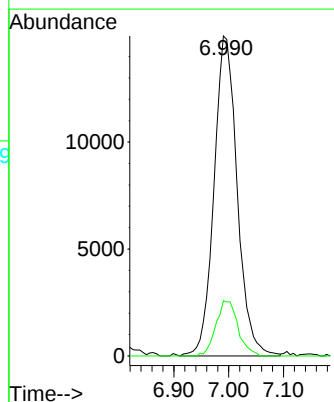
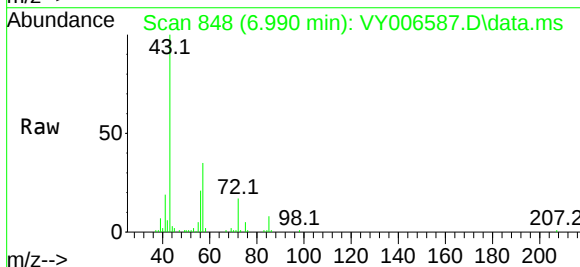
Ion	Ratio	Lower	Upper
84	100		
49	122.5	107.8	161.8
51	42.5	32.8	49.2
86	62.0	50.6	75.8

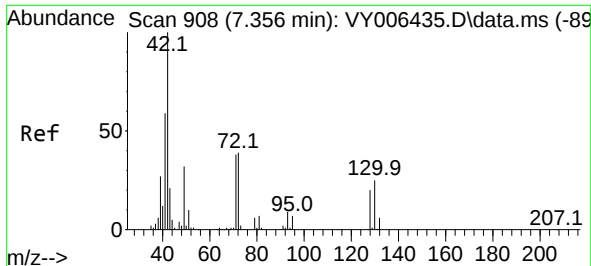


#25
2-Butanone
Concen: 72.888 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.000 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Tgt Ion: 43 Resp: 44021

Ion	Ratio	Lower	Upper
43	100		
72	17.3	18.9	28.3#





#29

Tetrahydrofuran

Concen: 2.615 ug/l

RT: 7.368 min Scan# 910

Delta R.T. 0.012 min

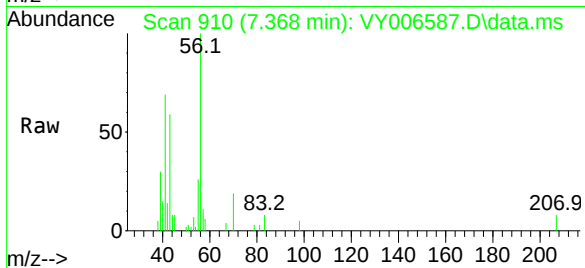
Lab File: VY006587.D

Acq: 02 Nov 2021 19:23

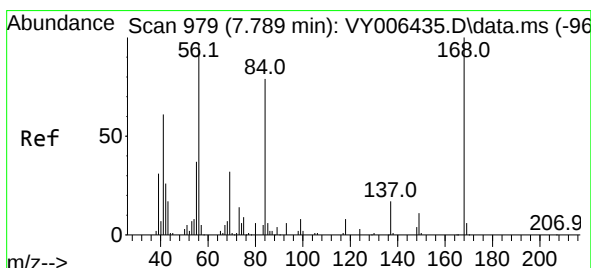
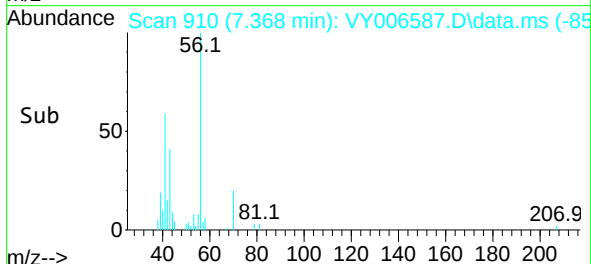
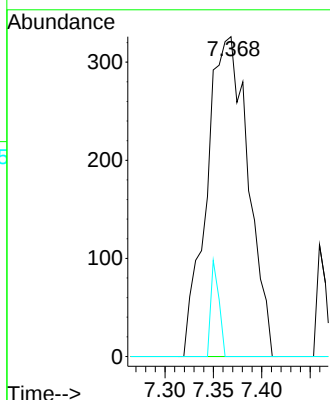
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	969
Ion Ratio	Lower	Upper	
42	100		
72	0.0	32.0	48.0#
71	0.0	30.3	45.5#



#31

Cyclohexane

Concen: 1.352 ug/l

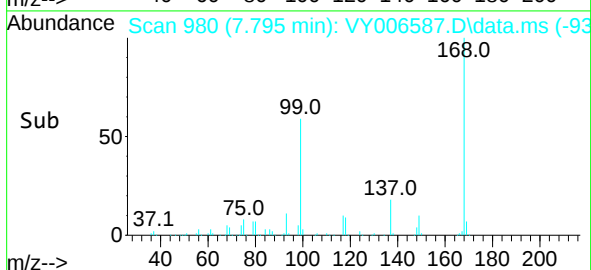
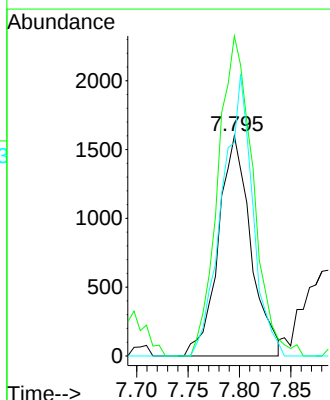
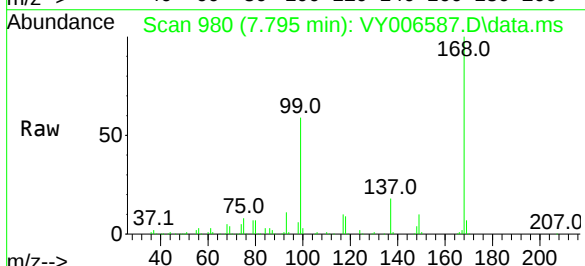
RT: 7.795 min Scan# 980

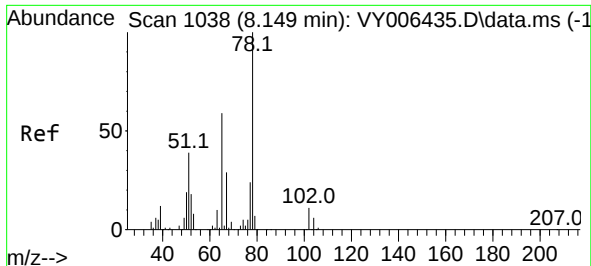
Delta R.T. 0.006 min

Lab File: VY006587.D

Acq: 02 Nov 2021 19:23

Tgt Ion:	56	Resp:	3505
Ion Ratio	Lower	Upper	
56	100		
69	145.3	26.6	40.0#
84	96.8	65.0	97.4





#33

1,2-Dichloroethane-d4

Concen: 59.322 ug/l

RT: 8.149 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY006587.D

Acq: 02 Nov 2021 19:23

Instrument :

MSVOA_N

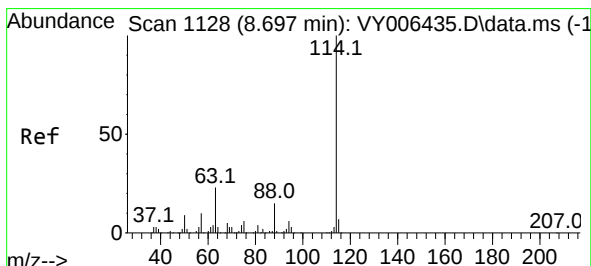
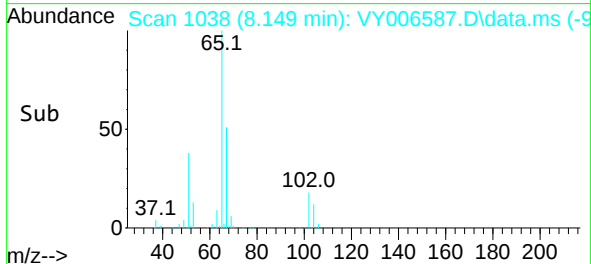
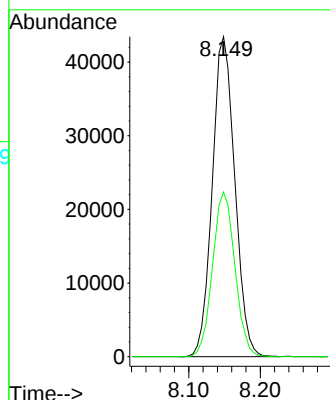
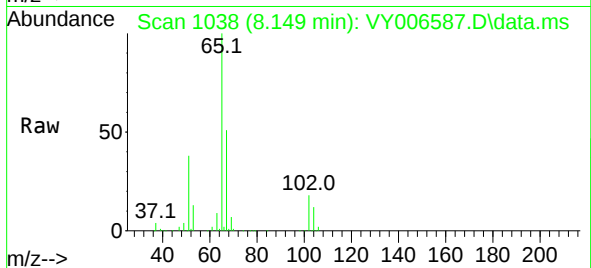
ClientSampleId :

Tgt Ion: 65 Resp: 94975

Ion Ratio Lower Upper

65 100

67 51.1 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: VY006587.D

Acq: 02 Nov 2021 19:23

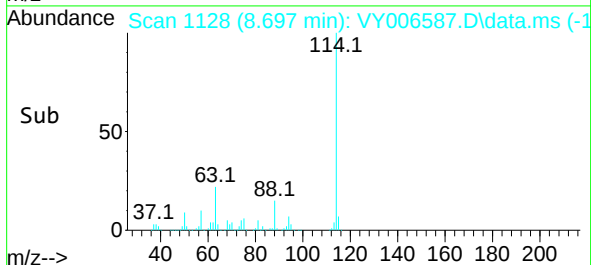
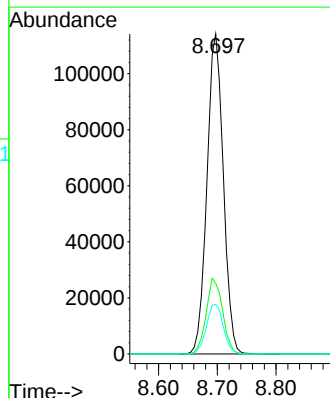
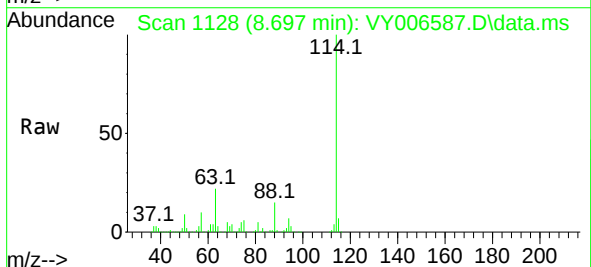
Tgt Ion: 114 Resp: 220605

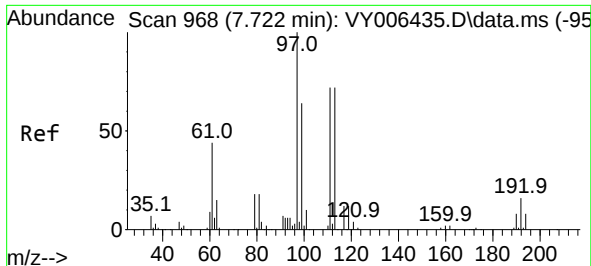
Ion Ratio Lower Upper

114 100

63 22.1 0.0 45.0

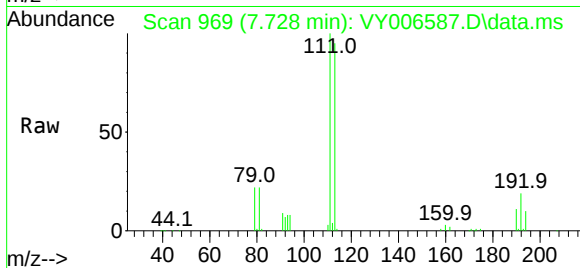
88 15.5 0.0 30.6



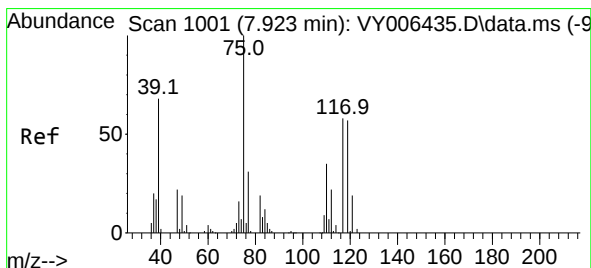
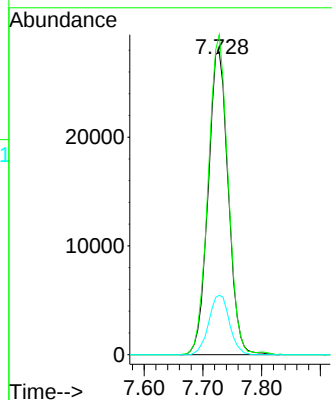
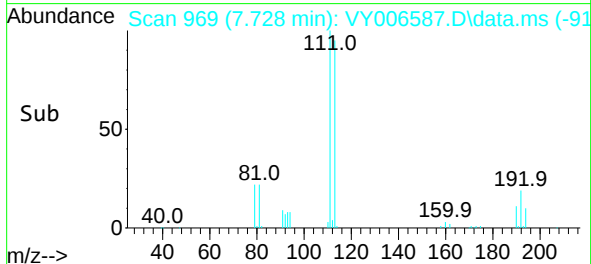


#35
Dibromofluoromethane
Concen: 54.057 ug/l
RT: 7.728 min Scan# 901
Delta R.T. 0.006 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Instrument :
MSVOA_N
ClientSampleId :

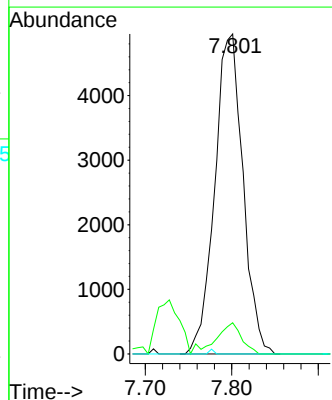
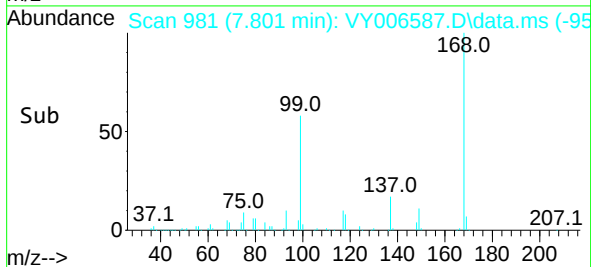
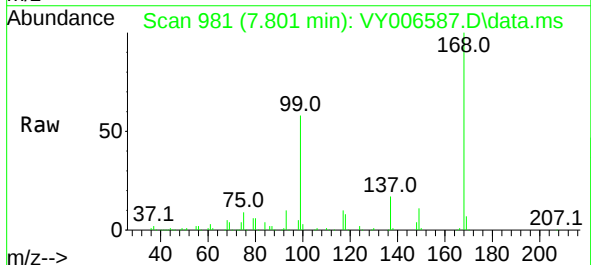


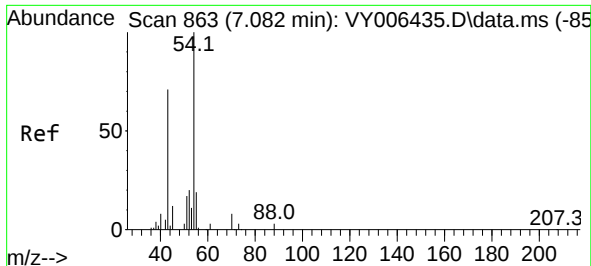
Tgt Ion:113 Resp: 66468
Ion Ratio Lower Upper
113 100
111 103.8 82.3 123.5
192 20.0 17.4 26.2



#36
1,1-Dichloropropene
Concen: 5.138 ug/l
RT: 7.801 min Scan# 981
Delta R.T. -0.122 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Tgt Ion: 75 Resp: 11200
Ion Ratio Lower Upper
75 100
110 8.1 17.1 51.3#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 31.911 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.092 min

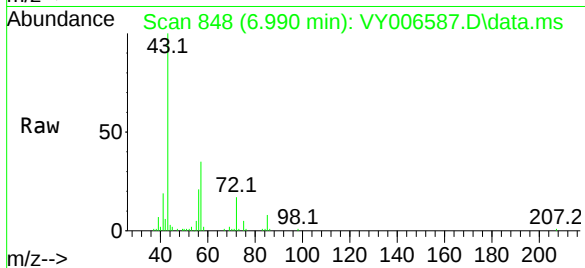
Lab File: VY006587.D

Acq: 02 Nov 2021 19:23

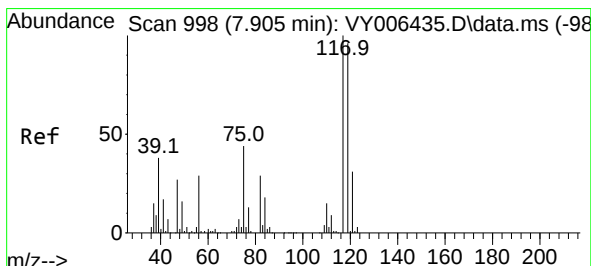
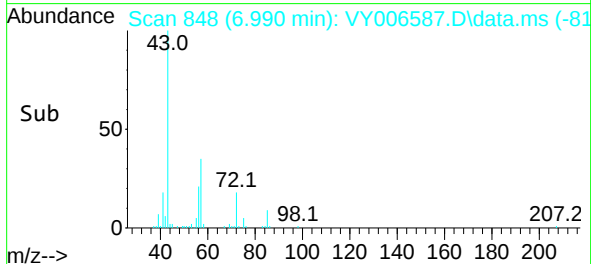
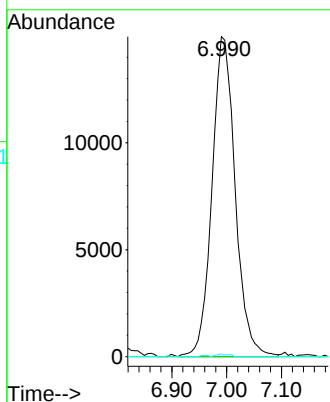
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43	Resp: 44021
Ion Ratio	Lower Upper
43 100	
61 0.0	9.4 14.2#
70 0.5	6.9 10.3#



#38

Carbon Tetrachloride

Concen: 5.393 ug/l

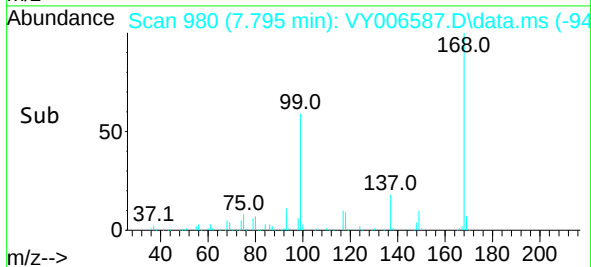
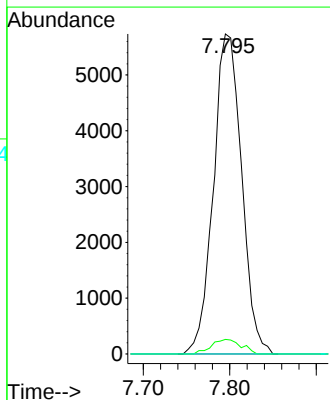
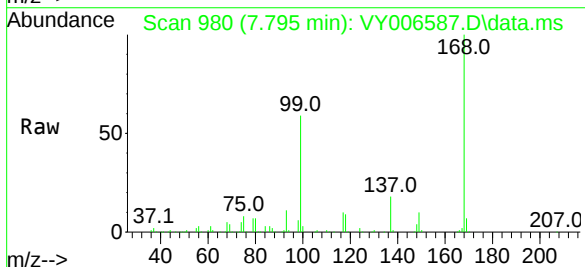
RT: 7.795 min Scan# 980

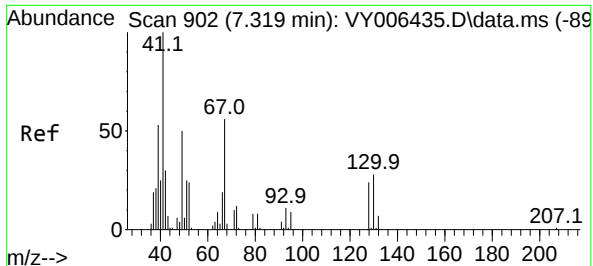
Delta R.T. -0.110 min

Lab File: VY006587.D

Acq: 02 Nov 2021 19:23

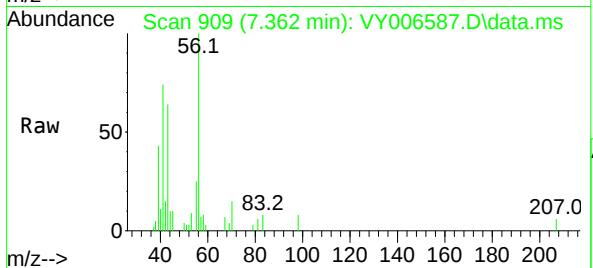
Tgt Ion: 117	Resp: 12967
Ion Ratio	Lower Upper
117 100	
119 4.6	76.6 115.0#
121 0.0	24.7 37.1#



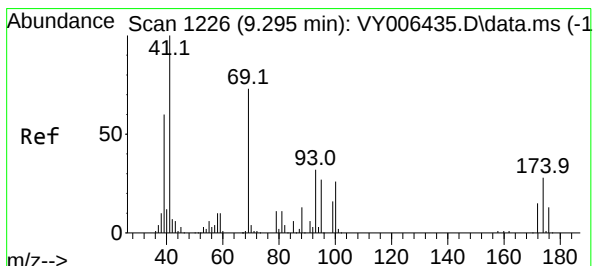
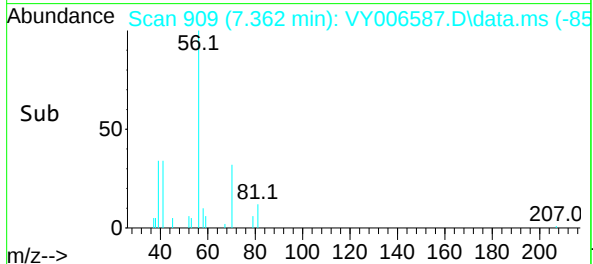
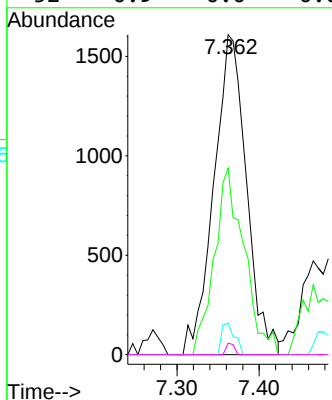


#41
Methacrylonitrile
Concen: 5.658 ug/l
RT: 7.362 min Scan# 902
Delta R.T. 0.043 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Instrument :
MSVOA_N
ClientSampleId :

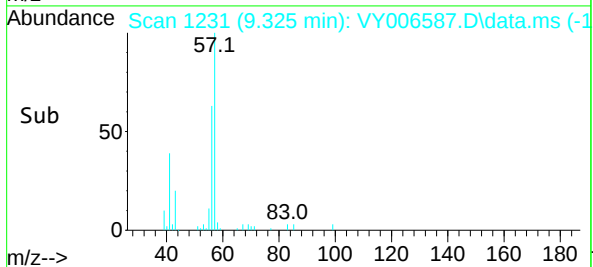
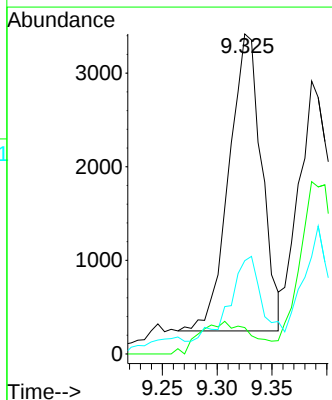
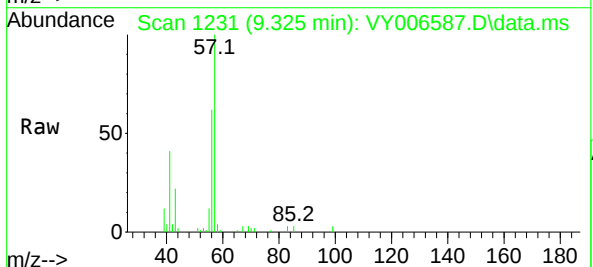


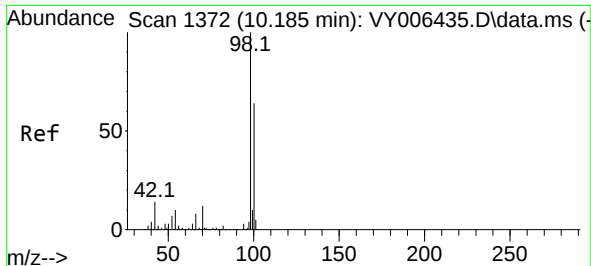
Tgt Ion:	41	Resp:	4429
Ion	Ratio	Lower	Upper
41	100		
39	53.4	109.0	163.6#
67	4.0	0.0	0.0#
52	0.9	0.0	0.0#



#48
Methyl methacrylate
Concen: 5.320 ug/l
RT: 9.325 min Scan# 1231
Delta R.T. 0.030 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Tgt Ion:	41	Resp:	6598
Ion	Ratio	Lower	Upper
41	100		
69	0.0	60.4	90.6#
39	28.0	48.2	72.2#

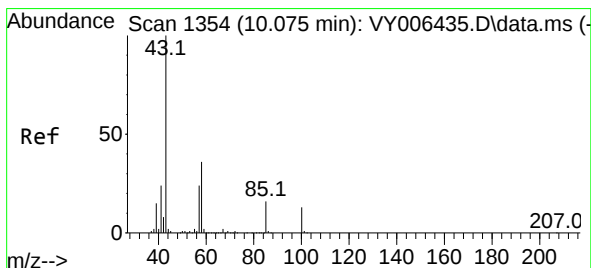
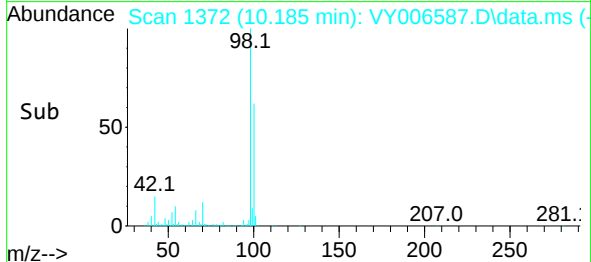
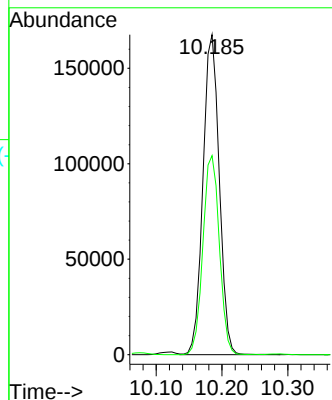
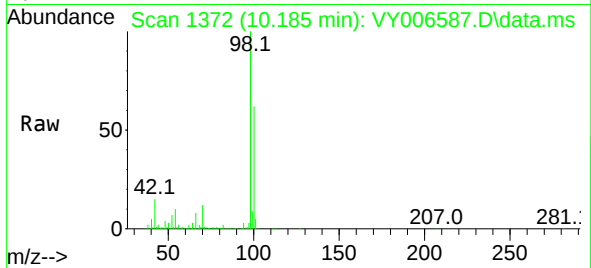




#50
Toluene-d8
Concen: 55.366 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

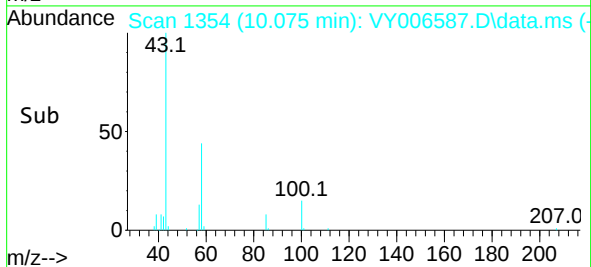
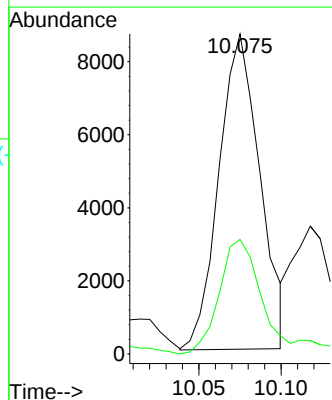
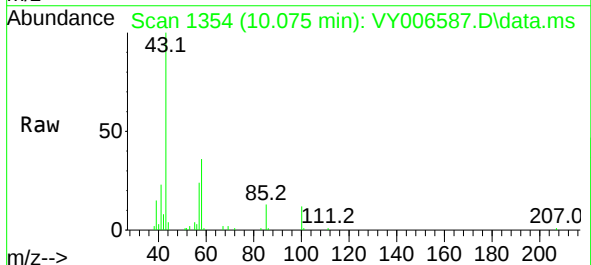
Instrument :
MSVOA_N
ClientSampleId :

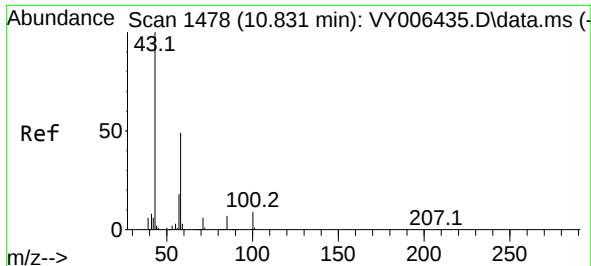
Tgt Ion: 98 Resp: 288588
Ion Ratio Lower Upper
98 100
100 62.8 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 10.695 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Tgt Ion: 43 Resp: 15003
Ion Ratio Lower Upper
43 100
58 39.6 28.7 43.1

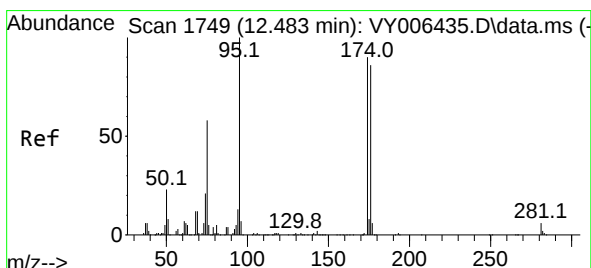
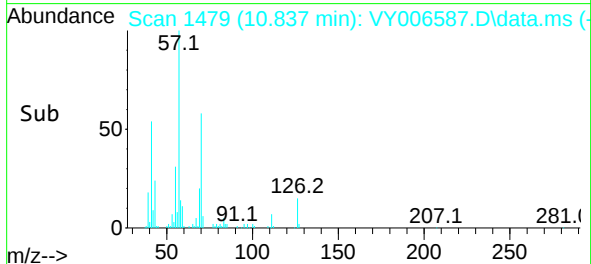
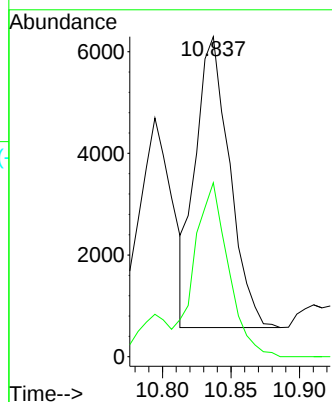
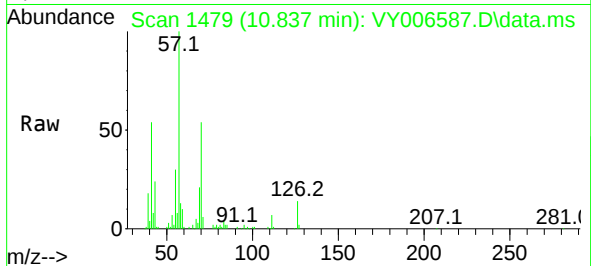




#59
2-Hexanone
Concen: 9.766 ug/l
RT: 10.837 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

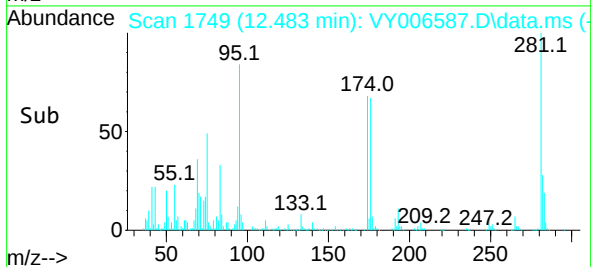
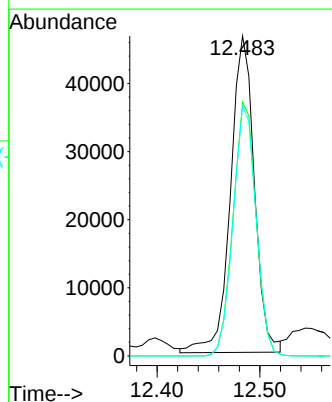
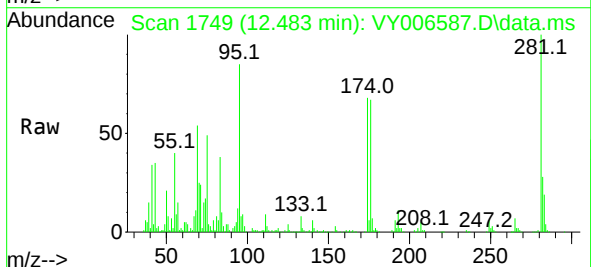
Instrument :
MSVOA_N
ClientSampleId :

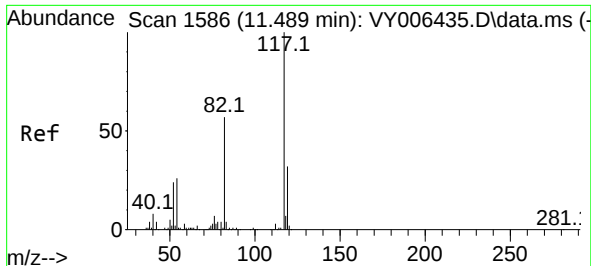
Tgt Ion: 43 Resp: 9915
Ion Ratio Lower Upper
43 100
58 59.9 24.6 73.6



#62
4-Bromofluorobenzene
Concen: 42.745 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Tgt Ion: 95 Resp: 75053
Ion Ratio Lower Upper
95 100
174 77.1 0.0 177.0
176 76.0 0.0 169.4

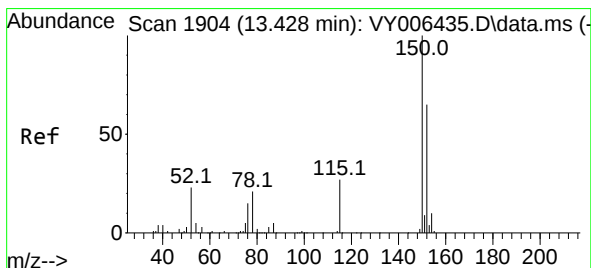
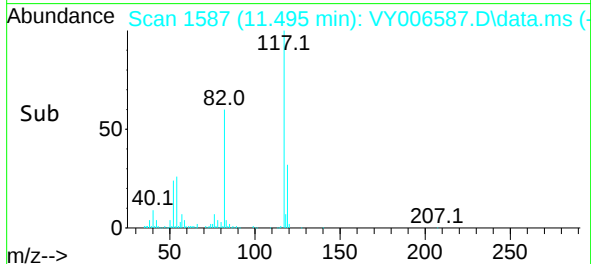
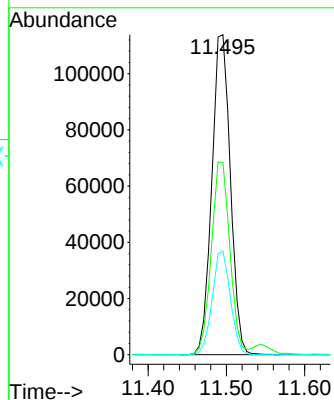
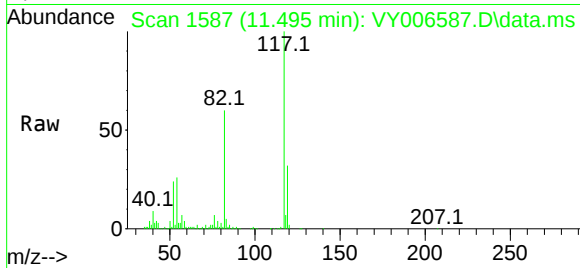




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

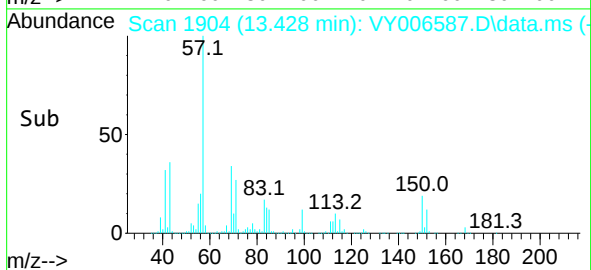
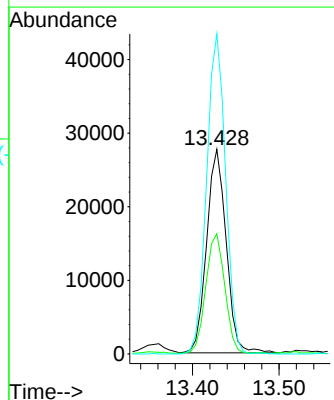
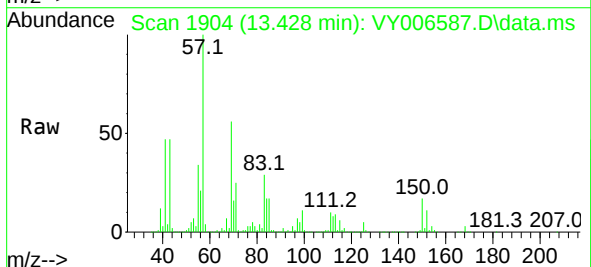
Instrument :
MSVOA_N
ClientSampleId :

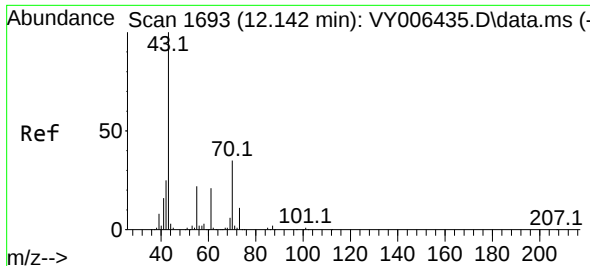
Tgt Ion:117 Resp: 187577
Ion Ratio Lower Upper
117 100
82 60.0 45.7 68.5
119 32.4 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

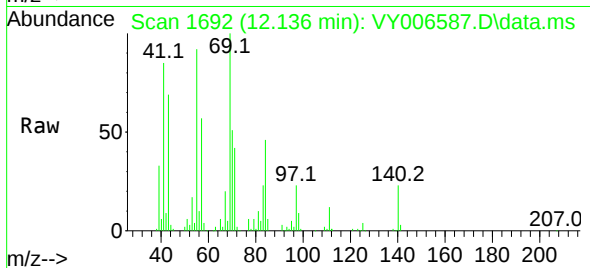
Tgt Ion:152 Resp: 43437
Ion Ratio Lower Upper
152 100
115 56.9 28.5 85.5
150 152.0 0.0 348.2



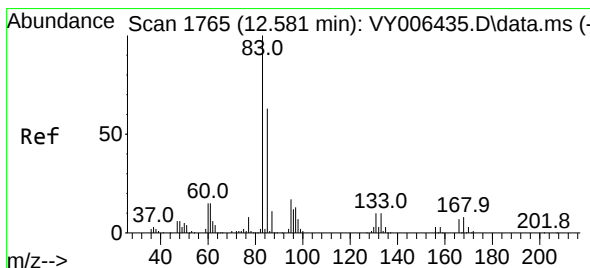
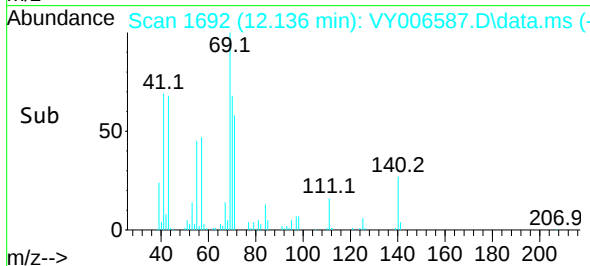
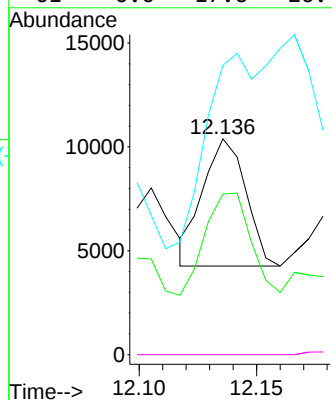


#74
N-amy1 acetate
Concen: 7.725 ug/l
RT: 12.136 min Scan# 1692
Delta R.T. -0.006 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Instrument :
MSVOA_N
ClientSampleId :

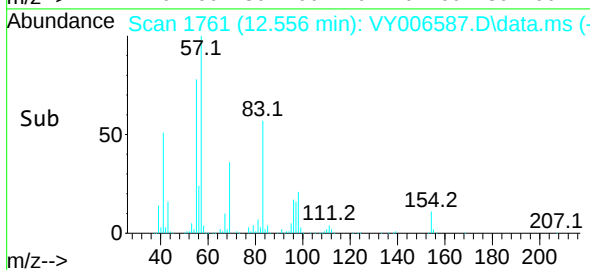
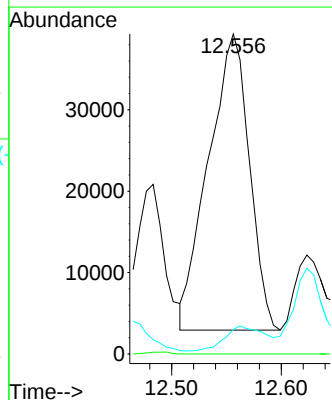
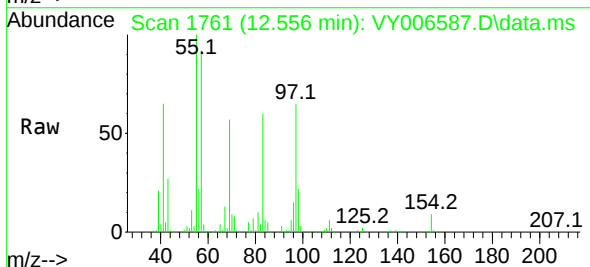


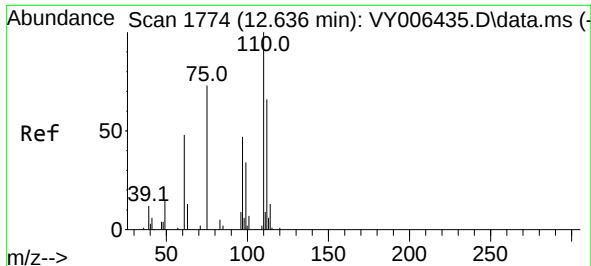
Tgt Ion: 43	Resp: 7786
Ion Ratio	Lower Upper
43 100	
70 118.9	29.4 44.0#
55 168.6	18.1 27.1#
61 0.0	17.6 26.4#



#75
1,1,2,2-Tetrachloroethane
Concen: 179.308 ug/l
RT: 12.556 min Scan# 1761
Delta R.T. -0.024 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

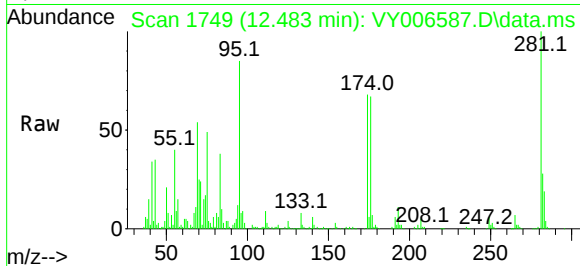
Tgt Ion: 83	Resp: 94322
Ion Ratio	Lower Upper
83 100	
131 0.0	5.5 16.4#
85 8.2	31.9 95.9#



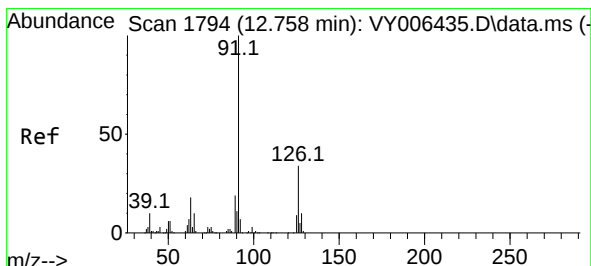
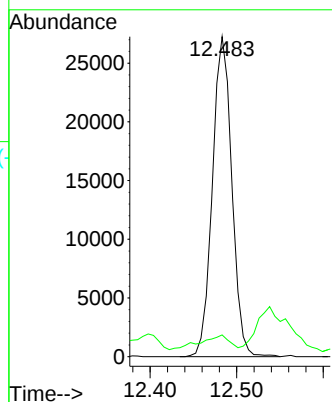
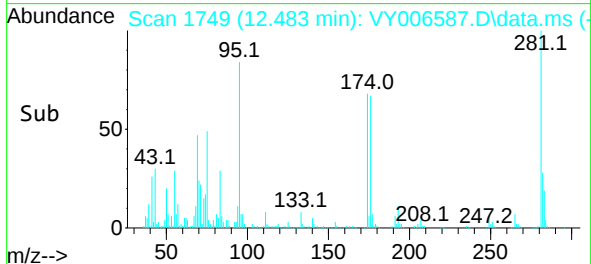


#76
1,2,3-Trichloropropane
Concen: 94.909 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.152 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Instrument :
MSVOA_N
ClientSampleId :

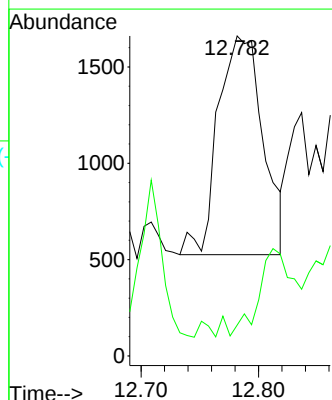
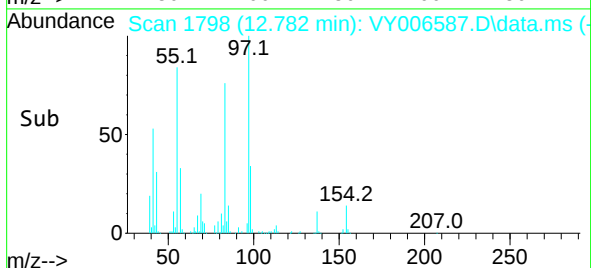
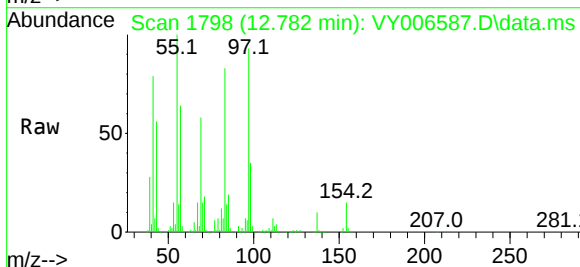


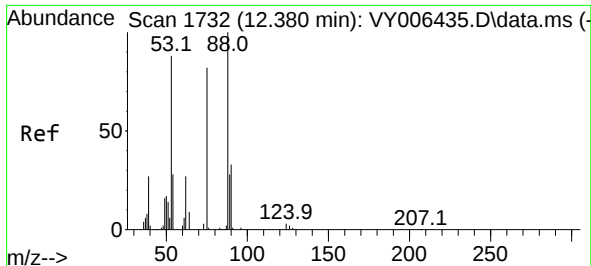
Tgt Ion: 75 Resp: 42482
Ion Ratio Lower Upper
75 100
77 6.7 0.0 0.0#



#79
2-Chlorotoluene
Concen: 1.452 ug/l
RT: 12.782 min Scan# 1798
Delta R.T. 0.024 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Tgt Ion: 91 Resp: 3018
Ion Ratio Lower Upper
91 100
126 0.0 17.1 51.2#

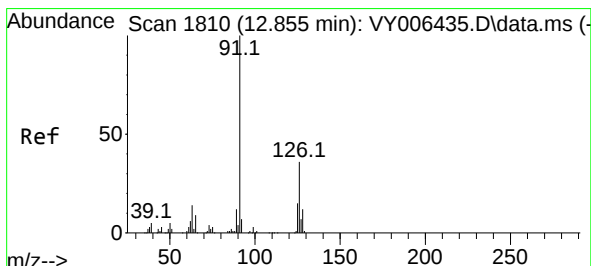
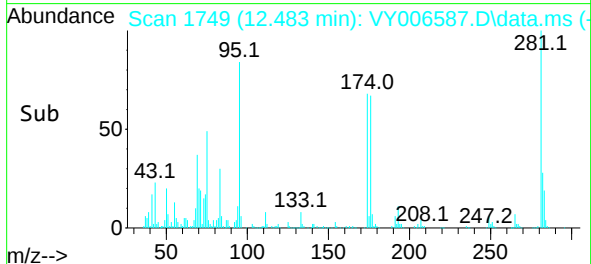
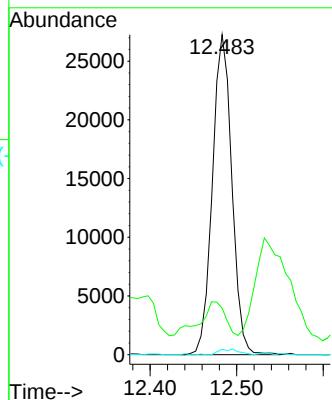
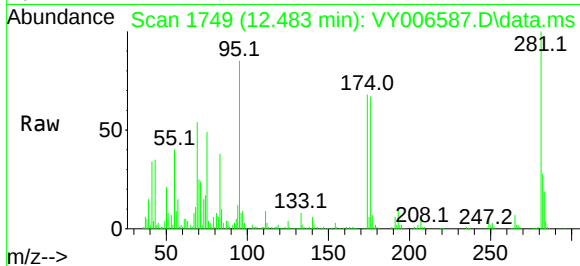




#81
trans-1,4-Dichloro-2-butene
Concen: 194.845 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

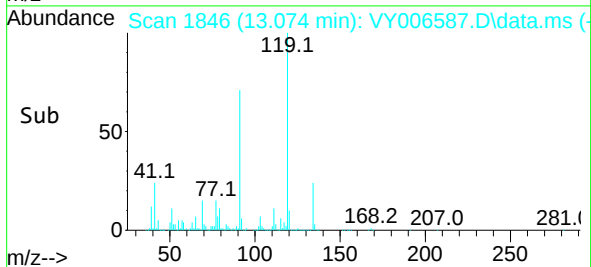
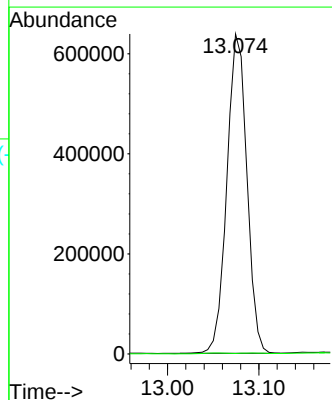
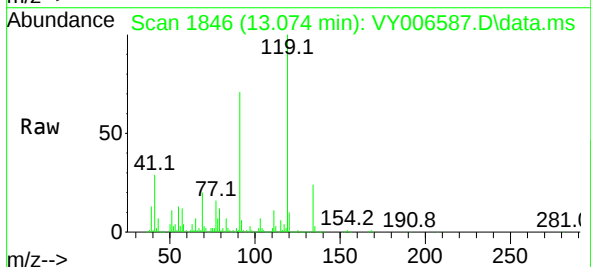
Instrument :
MSVOA_N
ClientSampleId :

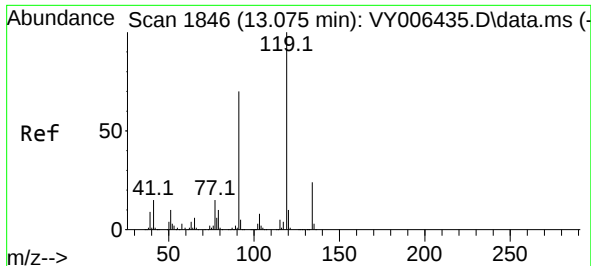
Tgt Ion: 75 Resp: 42482
Ion Ratio Lower Upper
75 100
53 0.0 85.8 128.6#
89 1.8 39.3 58.9#



#82
4-Chlorotoluene
Concen: 448.017 ug/l
RT: 13.074 min Scan# 1846
Delta R.T. 0.219 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Tgt Ion: 91 Resp: 970470
Ion Ratio Lower Upper
91 100
126 0.4 16.8 50.4#

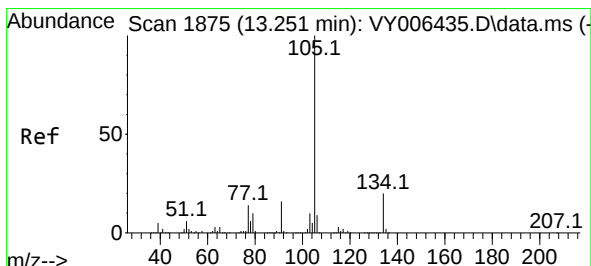
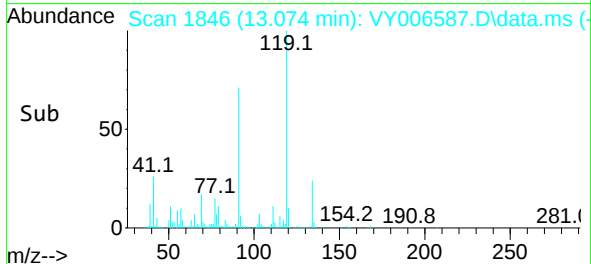
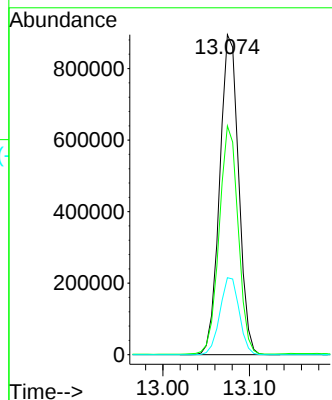
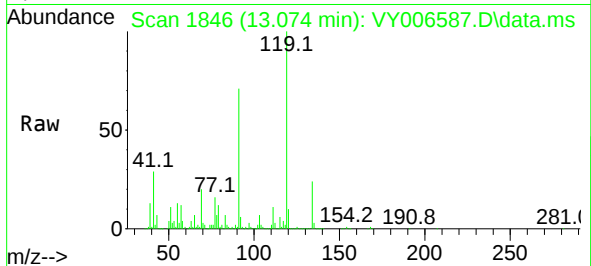




#83
tert-Butylbenzene
Concen: 621.442 ug/l
RT: 13.074 min Scan# 119
Delta R.T. -0.000 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

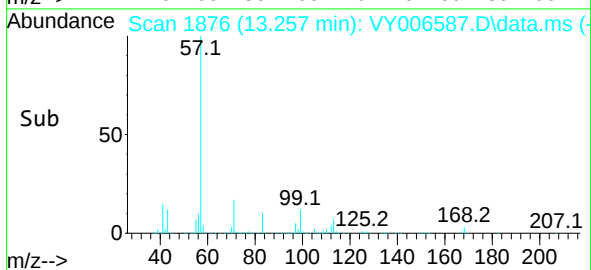
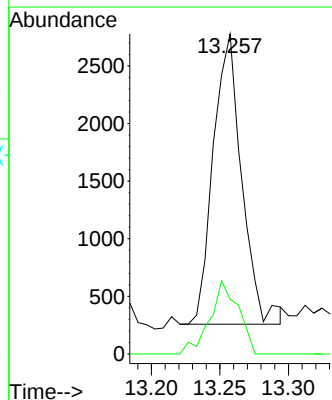
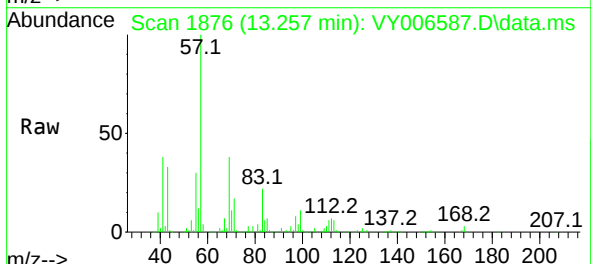
Instrument :
MSVOA_N
ClientSampleId :

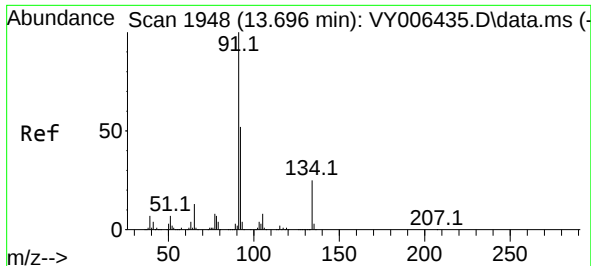
Tgt Ion:119 Resp: 1358680
Ion Ratio Lower Upper
119 100
91 71.5 34.8 104.5
134 24.4 13.0 38.9



#85
sec-Butylbenzene
Concen: 1.113 ug/l
RT: 13.257 min Scan# 1876
Delta R.T. 0.006 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

Tgt Ion:105 Resp: 3654
Ion Ratio Lower Upper
105 100
134 0.0 10.1 30.3#

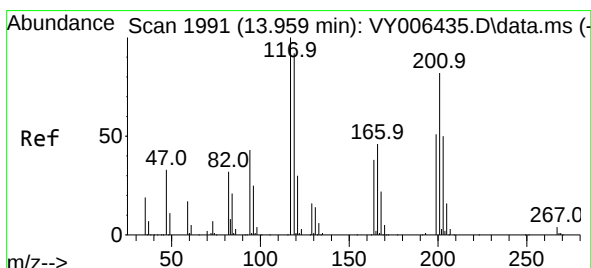
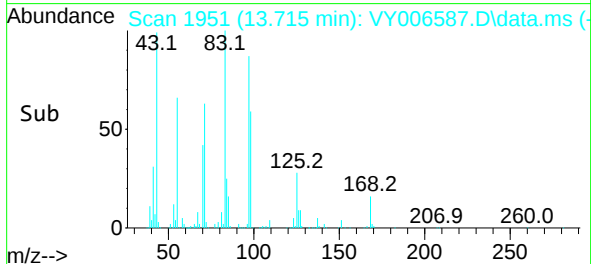
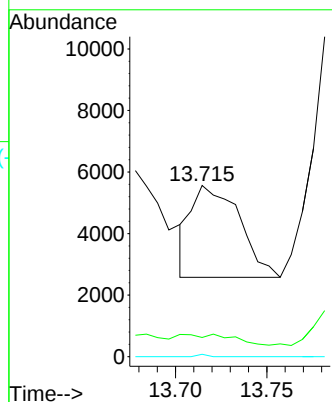
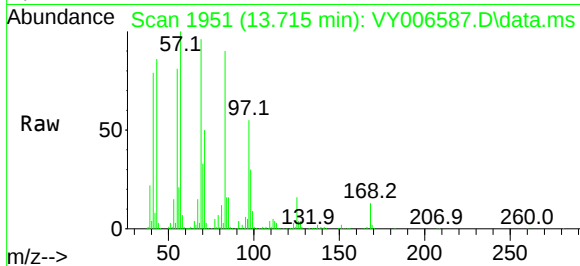




#89
n-Butylbenzene
Concen: 2.075 ug/l
RT: 13.715 min Scan# 1948
Delta R.T. 0.018 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

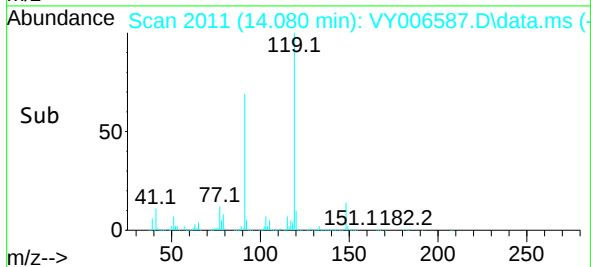
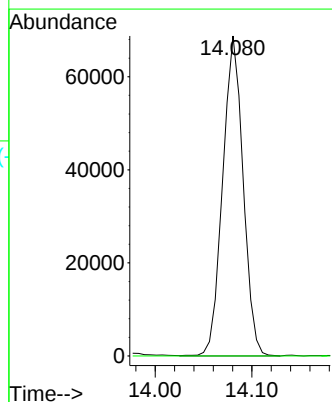
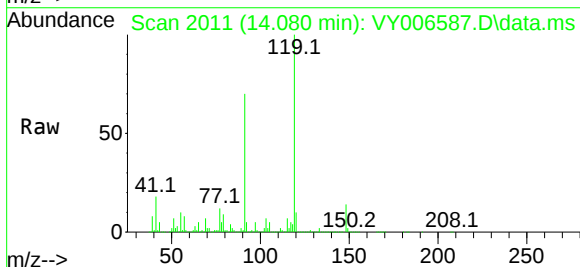
Instrument :
MSVOA_N
ClientSampleId :

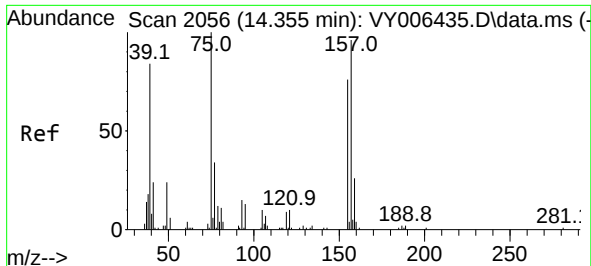
Tgt Ion: 91 Resp: 5466
Ion Ratio Lower Upper
91 100
92 2.4 26.3 78.9#
134 0.5 12.9 38.7#



#90
Hexachloroethane
Concen: 199.322 ug/l
RT: 14.080 min Scan# 2011
Delta R.T. 0.122 min
Lab File: VY006587.D
Acq: 02 Nov 2021 19:23

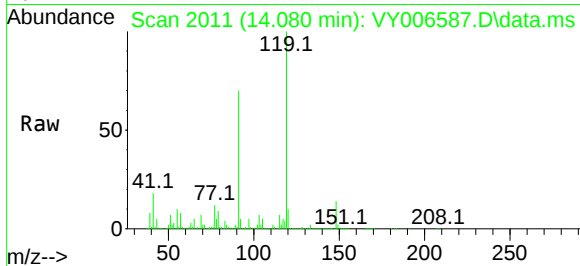
Tgt Ion: 117 Resp: 100819
Ion Ratio Lower Upper
117 100
201 0.0 43.4 130.1#



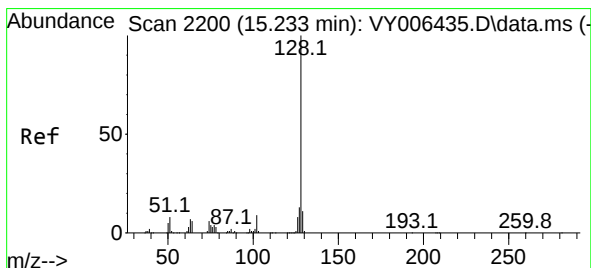
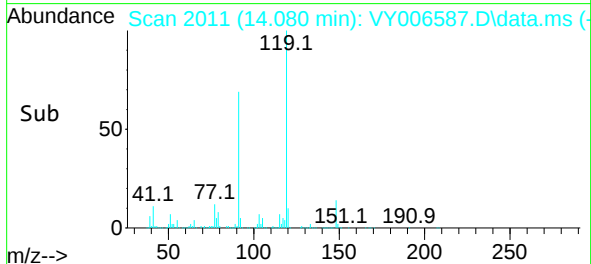
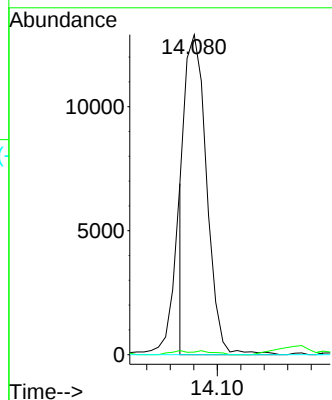


#92
 1,2-Dibromo-3-Chloropropane
 Concen: 147.016 ug/l
 RT: 14.080 min Scan# 2056
 Delta R.T. -0.274 min
 Lab File: VY006587.D
 Acq: 02 Nov 2021 19:23

Instrument :
 MSVOA_N
 ClientSampleId :

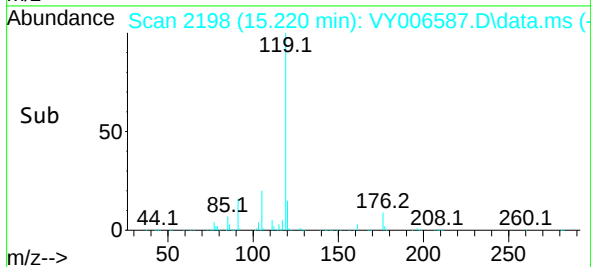
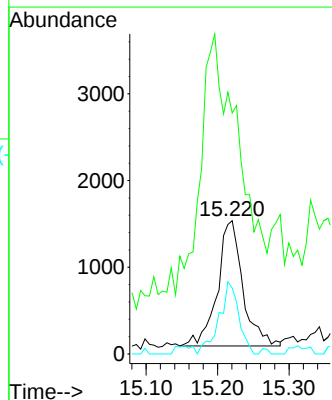
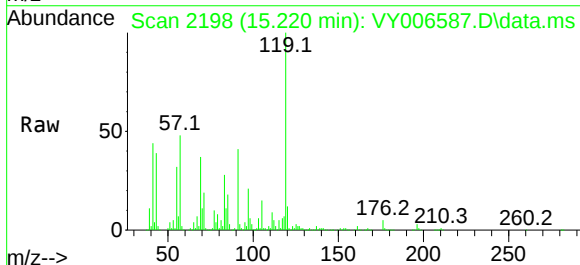


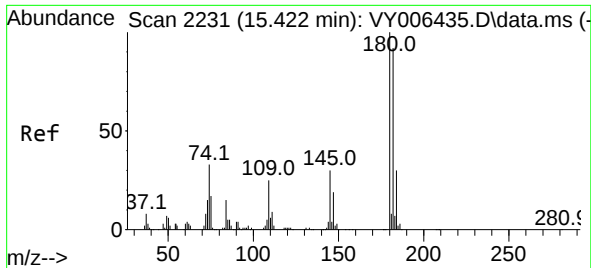
Tgt Ion: 75 Resp: 16418
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.0 116.9#
 157 0.0 49.2 147.6#



#95
 Naphthalene
 Concen: 2.197 ug/l
 RT: 15.220 min Scan# 2198
 Delta R.T. -0.012 min
 Lab File: VY006587.D
 Acq: 02 Nov 2021 19:23

Tgt Ion: 128 Resp: 3577
 Ion Ratio Lower Upper
 128 100
 127 0.0 11.0 16.4#
 129 44.1 8.9 13.3#





#96

1,2,3-Trichlorobenzene

Concen: 2.258 ug/l

RT: 15.665 min Scan# 21

Delta R.T. 0.244 min

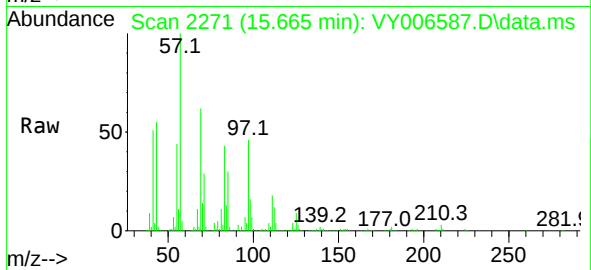
Lab File: VY006587.D

Acq: 02 Nov 2021 19:23

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 1645

Ion Ratio Lower Upper

180 100

182 76.6 47.8 143.4

145 20.2 15.3 45.8

