

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012122\
 Data File : VY007254.D
 Acq On : 21 Jan 2022 15:26
 Operator : SY/MD
 Sample : N1217-06
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 22 00:24:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y011322S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 14 05:48:29 2022
 Response via : Initial Calibration

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

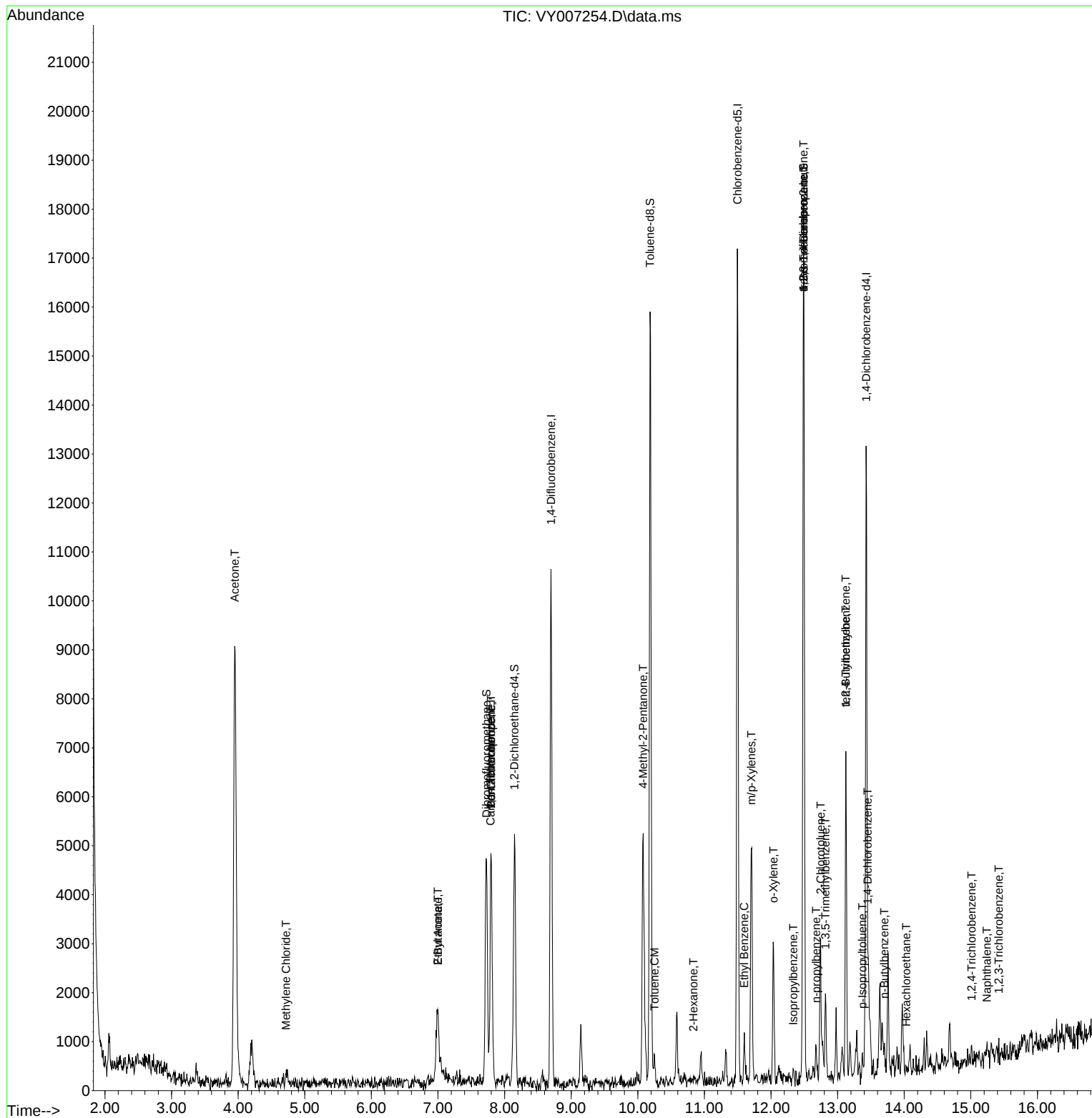
Internal Standards						
1) Pentafluorobenzene	7.795	168	4167	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	8913	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	9126	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	3032	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	4043	79.074	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 158.140%			
35) Dibromofluoromethane	7.728	113	3463	57.460	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 114.920%			
50) Toluene-d8	10.185	98	10915	49.565	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 99.120%			
62) 4-Bromofluorobenzene	12.489	95	3881	49.544	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 99.080%			
Target Compounds					Qvalue	
16) Acetone	3.948	43	16476	1241.653	ug/l	97
20) Methylene Chloride	4.716	84	125	2.278	ug/l #	36
25) 2-Butanone	6.996	43	1774	103.404	ug/l	90
36) 1,1-Dichloropropene	7.795	75	362	3.761	ug/l #	42
37) Ethyl Acetate	6.996	43	1774	35.912	ug/l #	67
38) Carbon Tetrachloride	7.789	117	396	3.911	ug/l #	12
51) 4-Methyl-2-Pentanone	10.081	43	4520	92.743	ug/l	94
52) Toluene	10.252	92	253	1.555	ug/l	85
59) 2-Hexanone	10.837	43	119	3.598	ug/l #	23
67) Ethyl Benzene	11.599	91	849	2.264	ug/l #	80
68) m/p-Xylenes	11.703	106	1489	10.683	ug/l	94
69) o-Xylene	12.038	106	777	5.920	ug/l	94
73) Isopropylbenzene	12.337	105	285	1.088	ug/l #	49
76) 1,2,3-Trichloropropane	12.489	75	2221	64.241	ug/l #	100
78) n-propylbenzene	12.678	91	760	2.341	ug/l	84
79) 2-Chlorotoluene	12.745	91	433	2.399	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.818	105	1073	4.990	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.489	75	2221	117.608	ug/l #	3
83) tert-Butylbenzene	13.123	119	541	2.912	ug/l #	75
84) 1,2,4-Trimethylbenzene	13.123	105	3350	15.718	ug/l	93
86) p-Isopropyltoluene	13.373	119	279	1.221	ug/l #	50
88) 1,4-Dichlorobenzene	13.452	146	134	1.195	ug/l #	48
89) n-Butylbenzene	13.702	91	238	1.058	ug/l	72
90) Hexachloroethane	14.032	117	46	1.030	ug/l #	16
93) 1,2,4-Trichlorobenzene	15.013	180	130	2.154	ug/l #	51
95) Naphthalene	15.239	128	360	2.809	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.422	180	71	1.379	ug/l #	77

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

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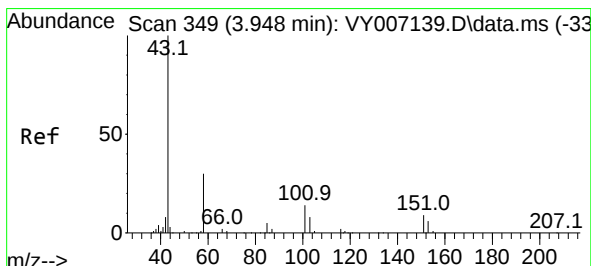
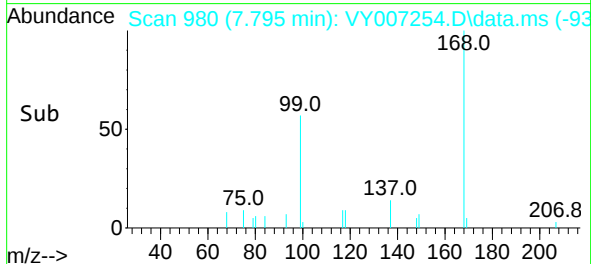
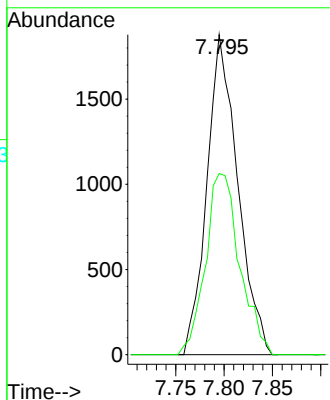
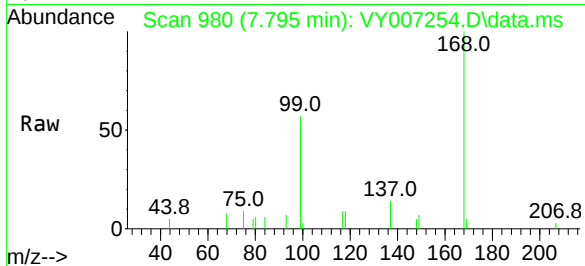




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

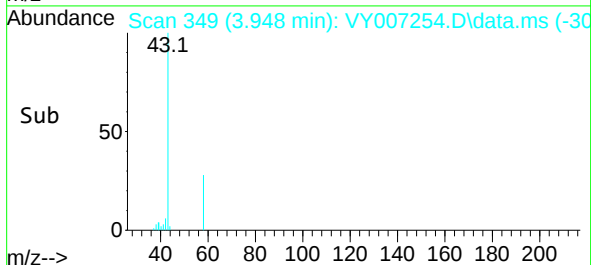
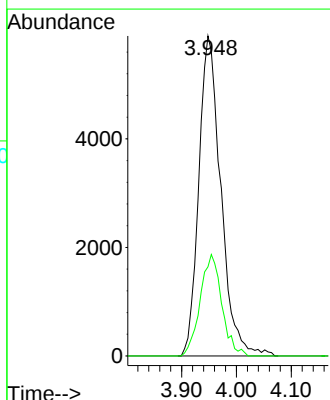
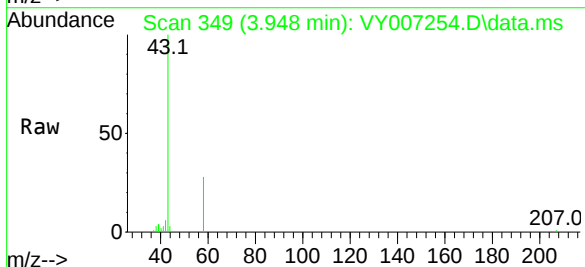
Instrument :
MSVOA_Y
ClientSampleId :

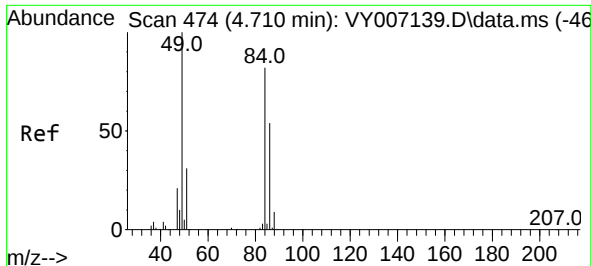
Tgt Ion:168 Resp: 4167
Ion Ratio Lower Upper
168 100
99 56.6 49.1 73.7



#16
Acetone
Concen: 1241.653 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.000 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

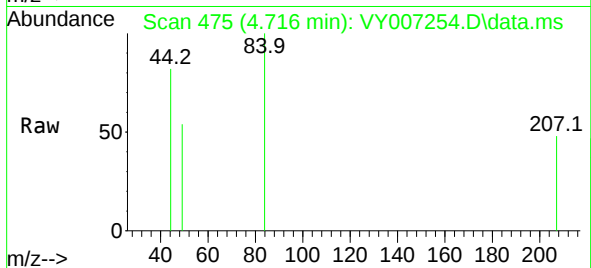
Tgt Ion: 43 Resp: 16476
Ion Ratio Lower Upper
43 100
58 27.8 23.8 35.6



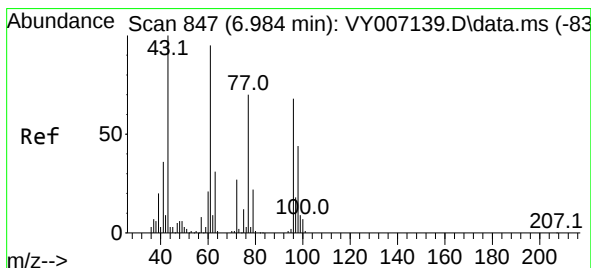
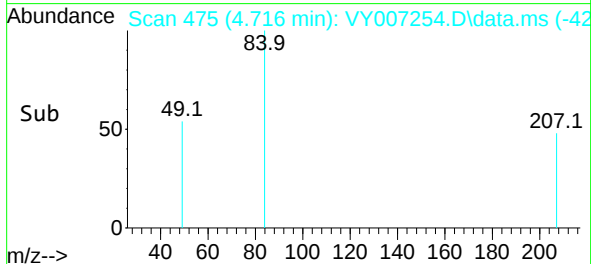
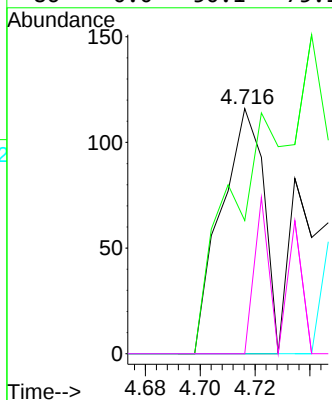


#20
Methylene Chloride
Concen: 2.278 ug/l
RT: 4.716 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

Instrument :
MSVOA_Y
ClientSampleId :

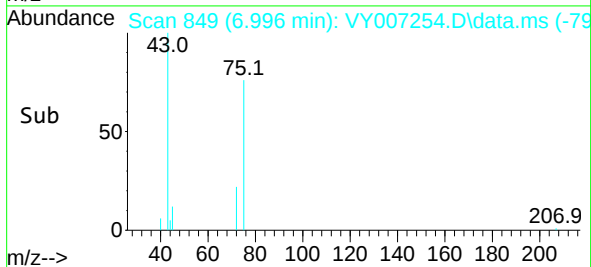
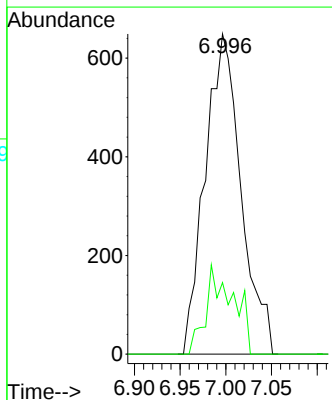
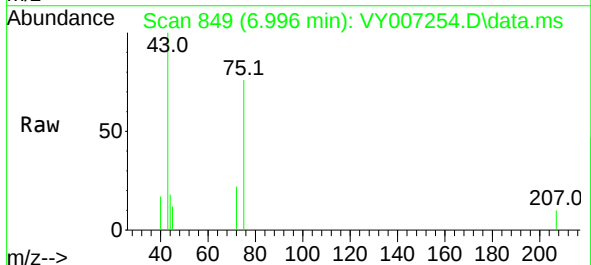


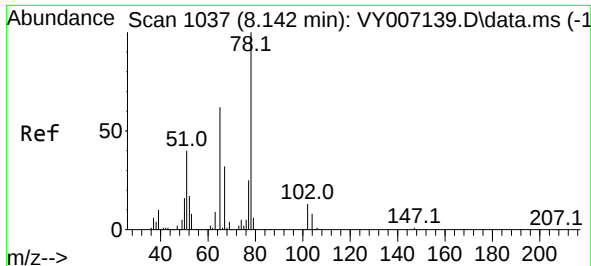
Tgt Ion: 84 Resp: 125
Ion Ratio Lower Upper
84 100
49 54.3 92.6 139.0#
51 0.0 28.6 42.8#
86 0.0 50.1 75.1#



#25
2-Butanone
Concen: 103.404 ug/l
RT: 6.996 min Scan# 849
Delta R.T. 0.013 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

Tgt Ion: 43 Resp: 1774
Ion Ratio Lower Upper
43 100
72 22.3 21.9 32.9

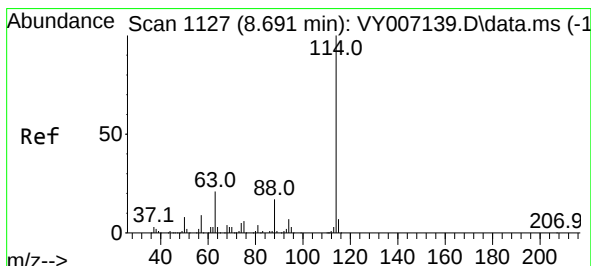
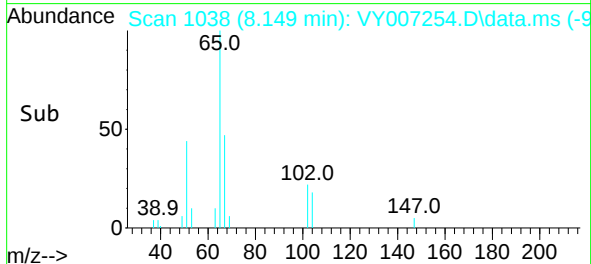
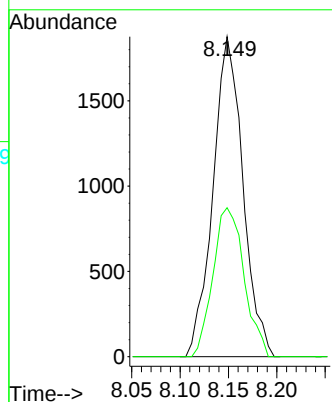
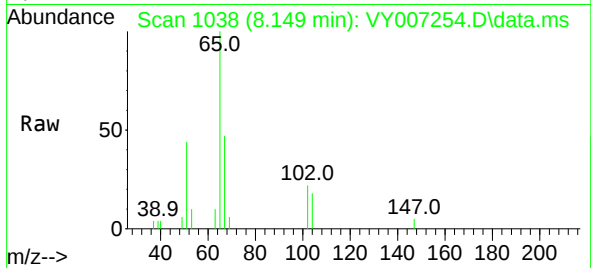




#33
 1,2-Dichloroethane-d4
 Concen: 79.074 ug/l
 RT: 8.149 min Scan# 1037
 Delta R.T. 0.006 min
 Lab File: VY007254.D
 Acq: 21 Jan 2022 15:26

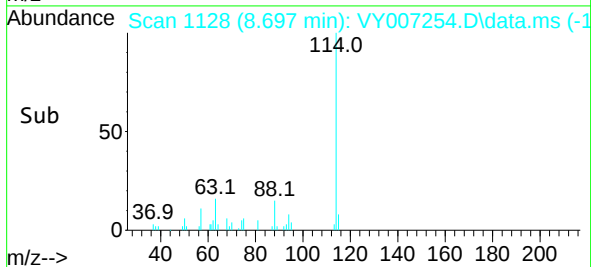
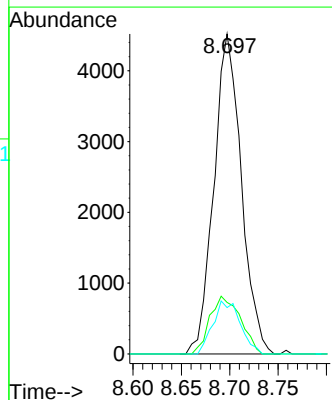
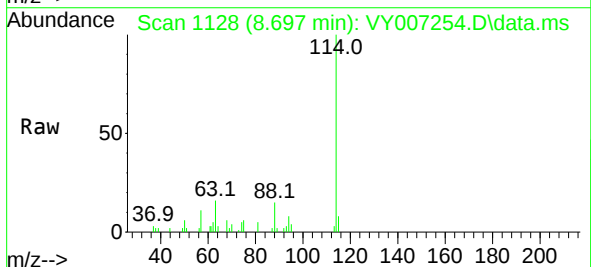
Instrument :
 MSVOA_Y
 ClientSampleId :

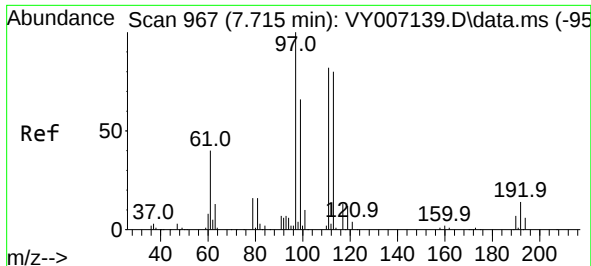
Tgt Ion: 65 Resp: 4043
 Ion Ratio Lower Upper
 65 100
 67 48.3 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.697 min Scan# 1128
 Delta R.T. 0.006 min
 Lab File: VY007254.D
 Acq: 21 Jan 2022 15:26

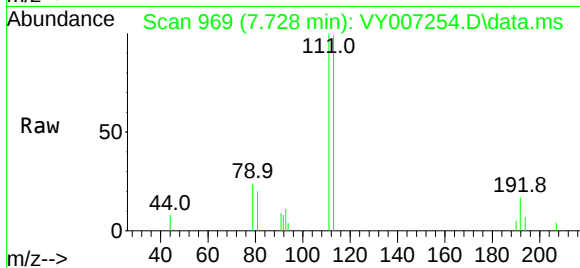
Tgt Ion: 114 Resp: 8913
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 39.2
 88 14.5 0.0 31.0



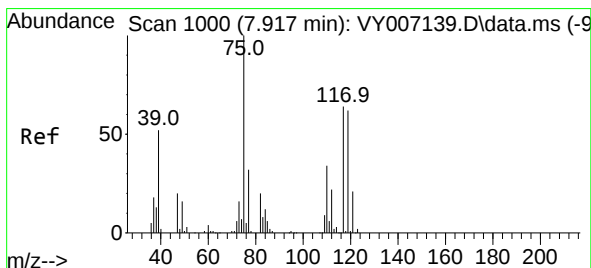
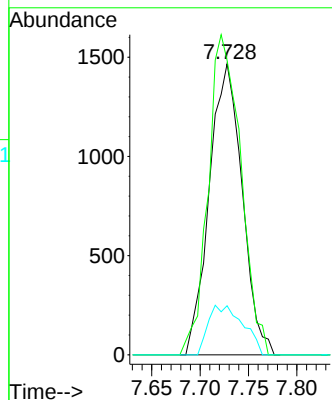
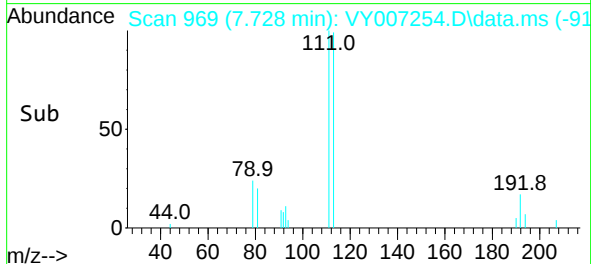


#35
Dibromofluoromethane
Concen: 57.460 ug/l
RT: 7.728 min Scan# 91
Delta R.T. 0.013 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

Instrument :
MSVOA_Y
ClientSampleId :

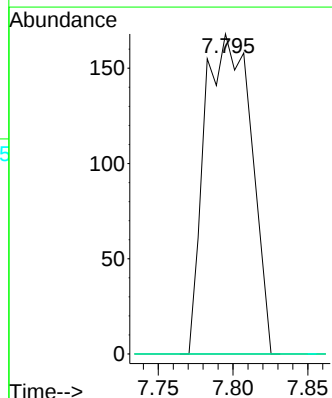
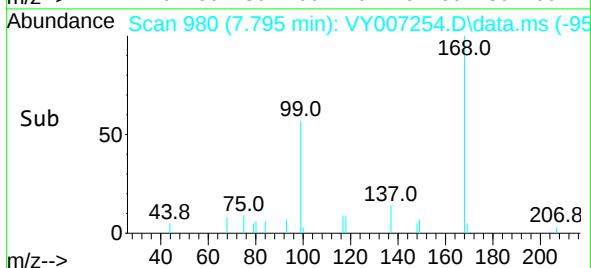
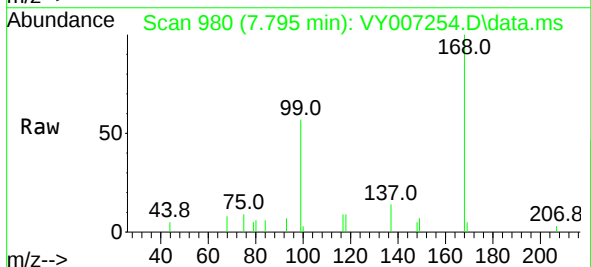


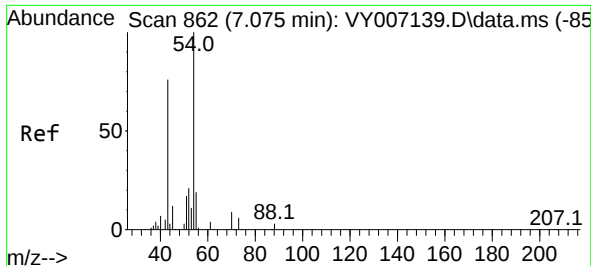
Tgt Ion:113 Resp: 3463
Ion Ratio Lower Upper
113 100
111 109.1 82.2 123.4
192 18.0 14.2 21.4



#36
1,1-Dichloropropene
Concen: 3.761 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.122 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

Tgt Ion: 75 Resp: 362
Ion Ratio Lower Upper
75 100
110 0.0 17.3 51.9#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 35.912 ug/l

RT: 6.996 min Scan# 849

Delta R.T. -0.079 min

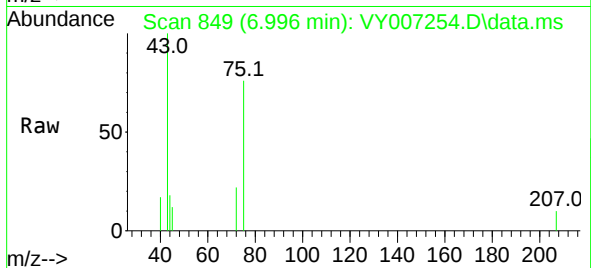
Lab File: VY007254.D

Acq: 21 Jan 2022 15:26

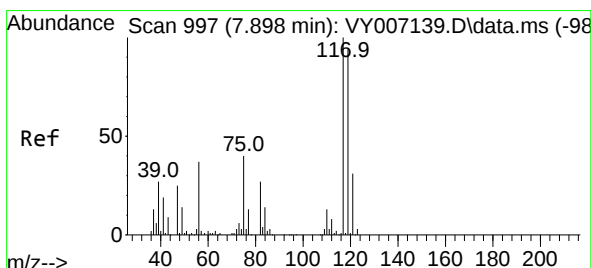
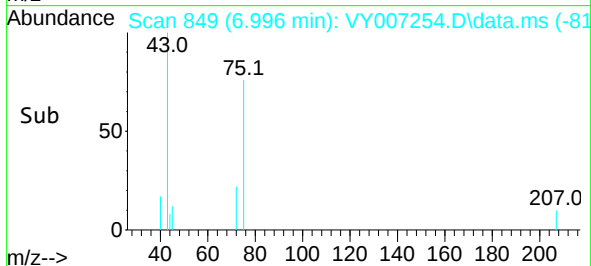
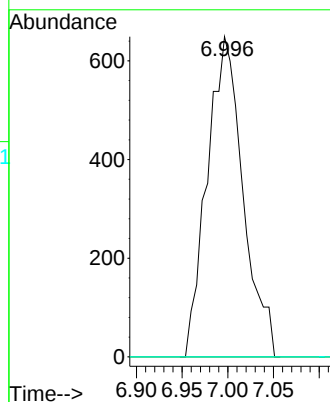
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	43	Resp:	1774
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.8#
70	0.0	9.0	13.4#



#38

Carbon Tetrachloride

Concen: 3.911 ug/l

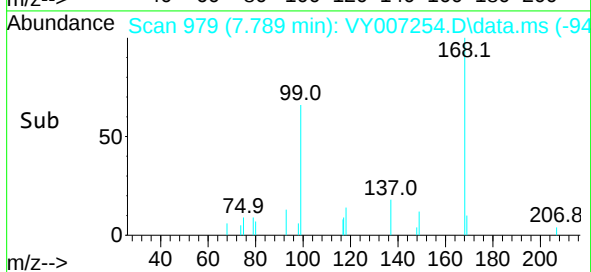
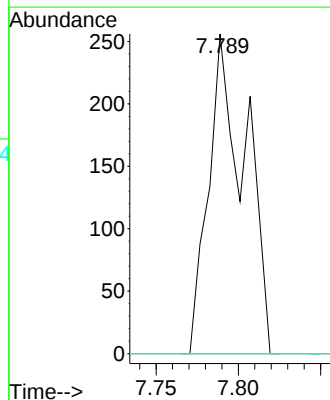
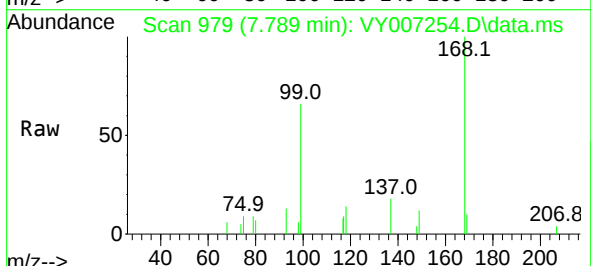
RT: 7.789 min Scan# 979

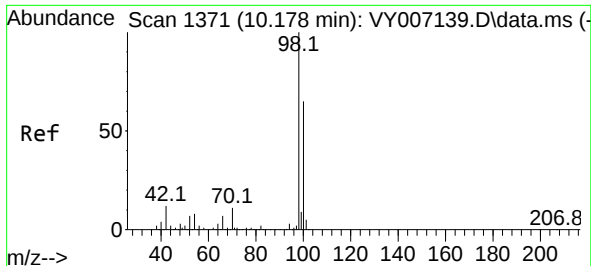
Delta R.T. -0.109 min

Lab File: VY007254.D

Acq: 21 Jan 2022 15:26

Tgt Ion:	117	Resp:	396
Ion	Ratio	Lower	Upper
117	100		
119	0.0	77.2	115.8#
121	0.0	24.2	36.2#

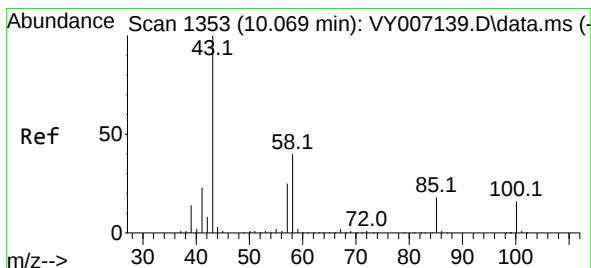
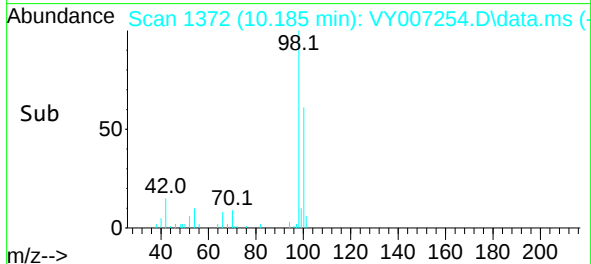
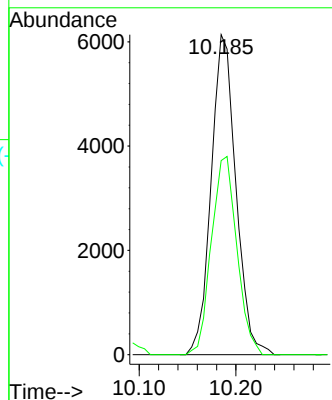
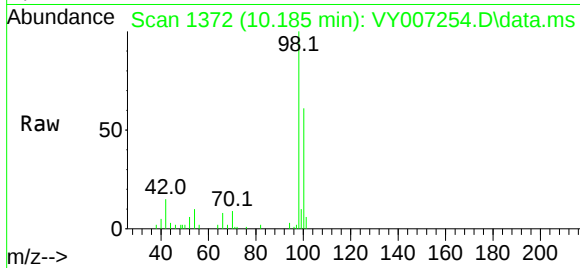




#50
Toluene-d8
Concen: 49.565 ug/l
RT: 10.185 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

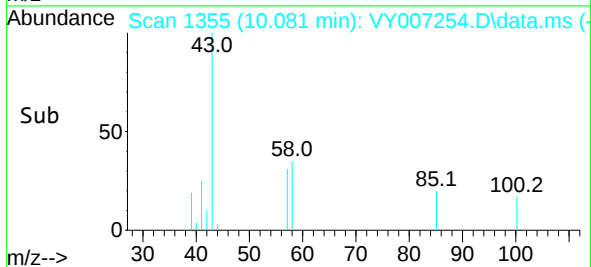
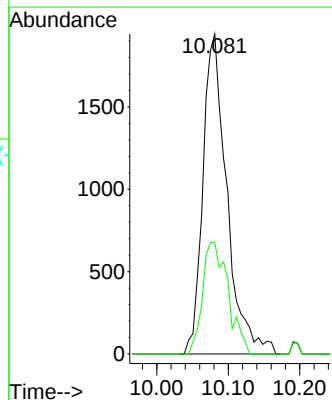
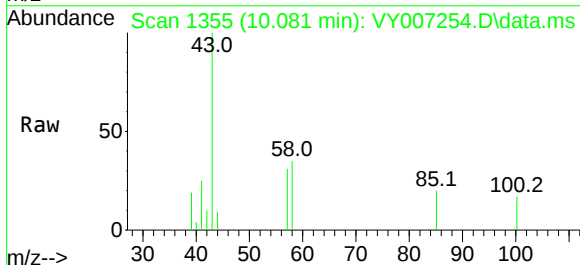
Instrument :
MSVOA_Y
ClientSampleId :

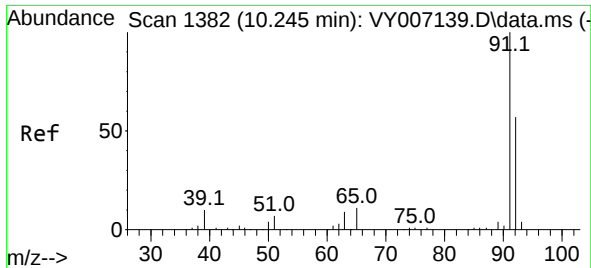
Tgt Ion: 98 Resp: 10915
Ion Ratio Lower Upper
98 100
100 63.7 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 92.743 ug/l
RT: 10.081 min Scan# 1355
Delta R.T. 0.012 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

Tgt Ion: 43 Resp: 4520
Ion Ratio Lower Upper
43 100
58 37.2 32.8 49.2

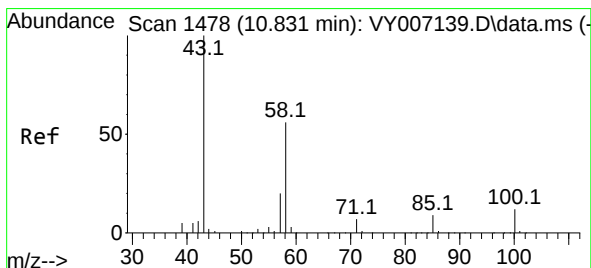
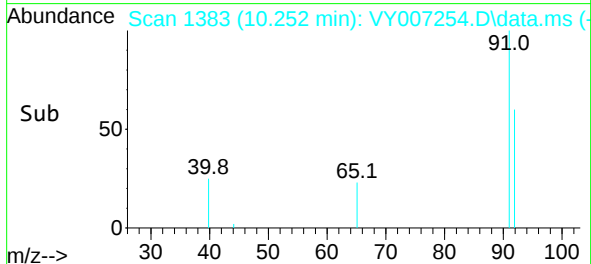
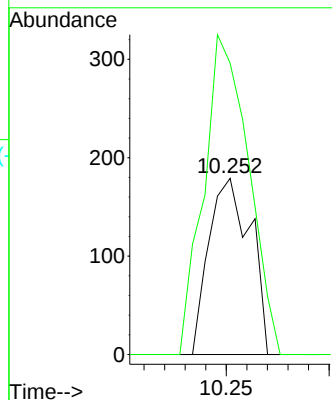
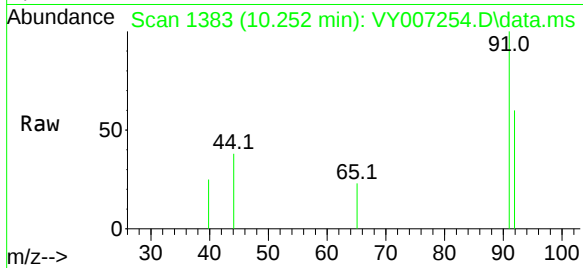




#52
Toluene
Concen: 1.555 ug/l
RT: 10.252 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

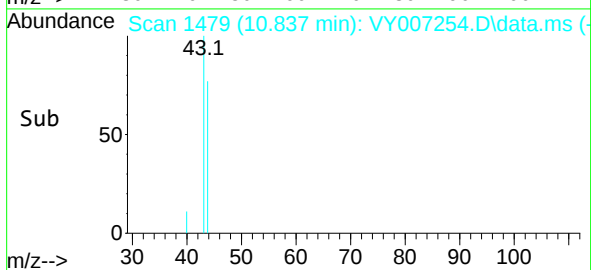
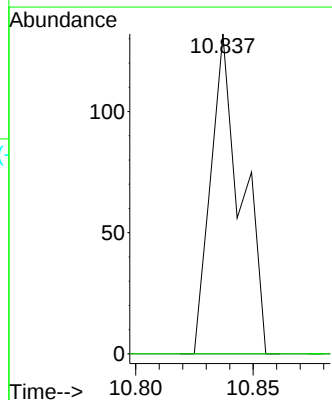
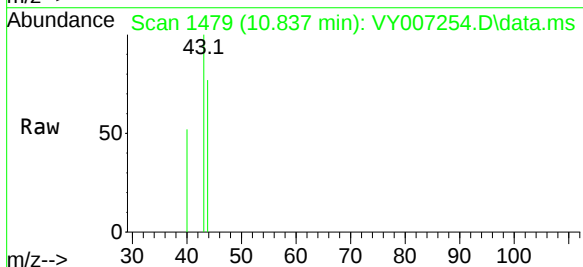
Instrument :
MSVOA_Y
ClientSampleId :

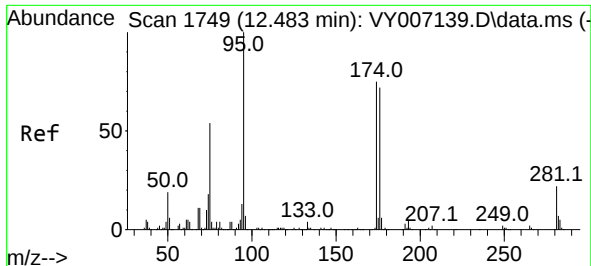
Tgt Ion: 92 Resp: 253
Ion Ratio Lower Upper
92 100
91 194.1 138.6 207.8



#59
2-Hexanone
Concen: 3.598 ug/l
RT: 10.837 min Scan# 1479
Delta R.T. 0.006 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

Tgt Ion: 43 Resp: 119
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.3#

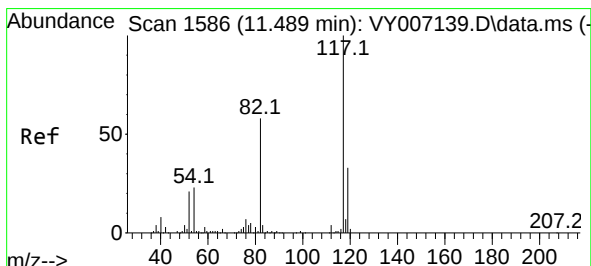
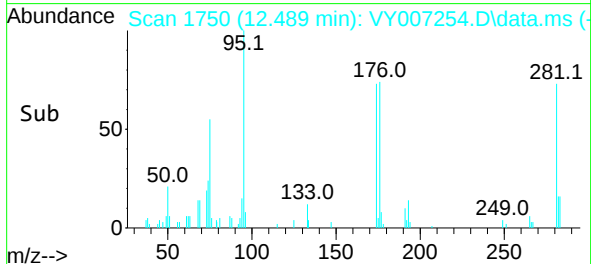
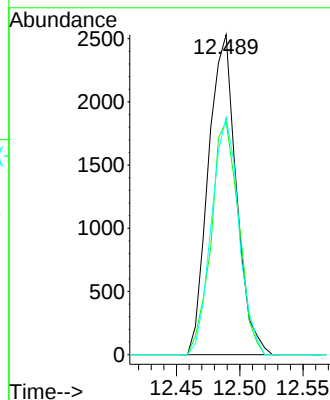
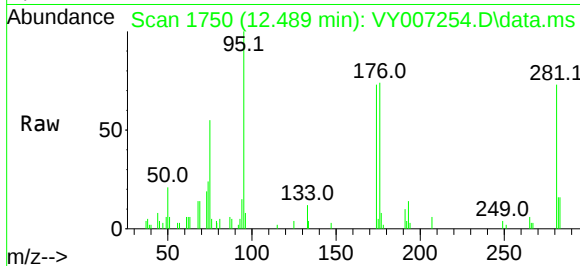




#62
4-Bromofluorobenzene
Concen: 49.544 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

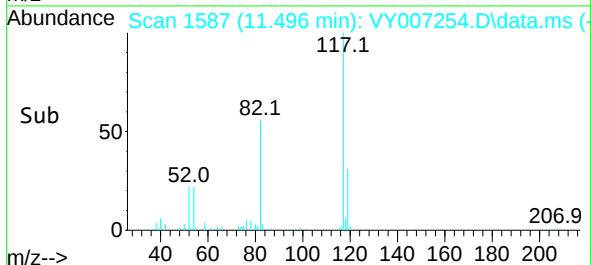
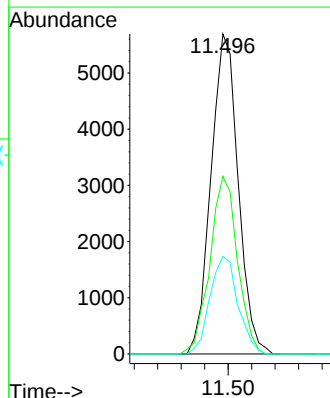
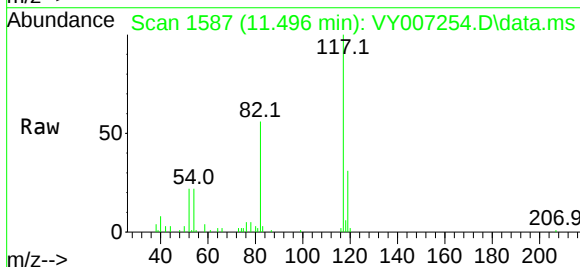
Instrument :
MSVOA_Y
ClientSampleId :

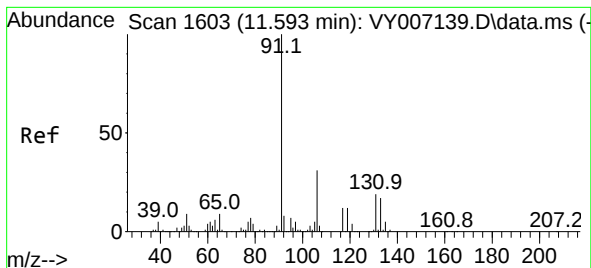
Tgt Ion:	95	Resp:	3881
Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	148.4
176	72.5	0.0	146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

Tgt Ion:	117	Resp:	9126
Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.4	68.0
119	30.5	26.4	39.6





#67

Ethyl Benzene

Concen: 2.264 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. 0.006 min

Lab File: VY007254.D

Acq: 21 Jan 2022 15:26

Instrument :

MSVOA_Y

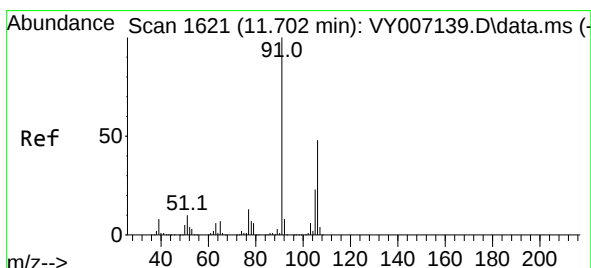
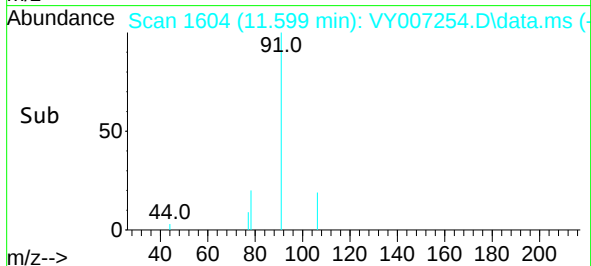
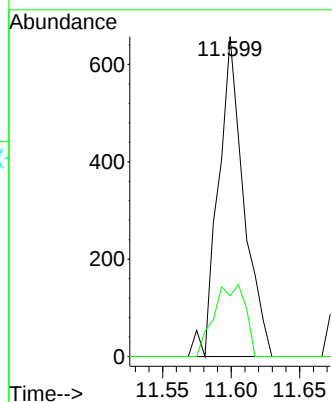
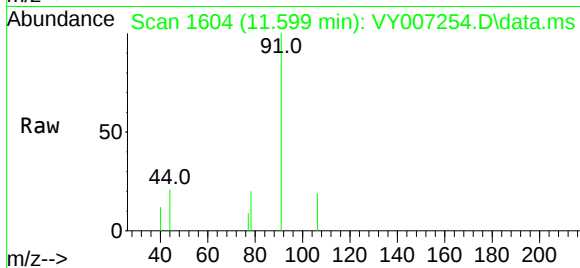
ClientSampleId :

Tgt Ion: 91 Resp: 849

Ion Ratio Lower Upper

91 100

106 19.0 23.9 35.9#



#68

m/p-Xylenes

Concen: 10.683 ug/l

RT: 11.703 min Scan# 1621

Delta R.T. 0.000 min

Lab File: VY007254.D

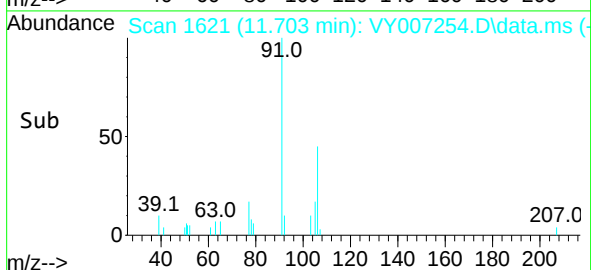
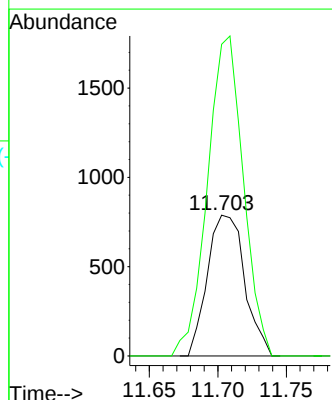
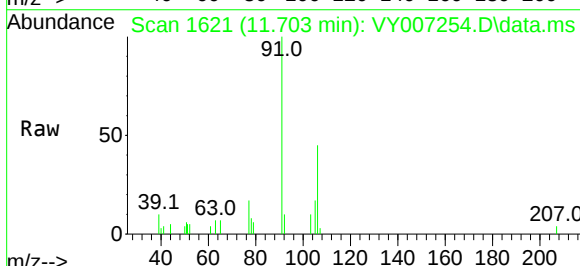
Acq: 21 Jan 2022 15:26

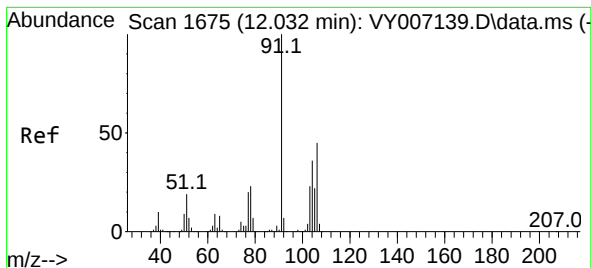
Tgt Ion:106 Resp: 1489

Ion Ratio Lower Upper

106 100

91 218.6 167.1 250.7





#69

o-Xylene

Concen: 5.920 ug/l

RT: 12.038 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY007254.D

Acq: 21 Jan 2022 15:26

Instrument :

MSVOA_Y

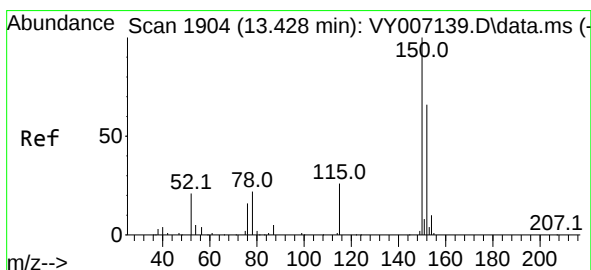
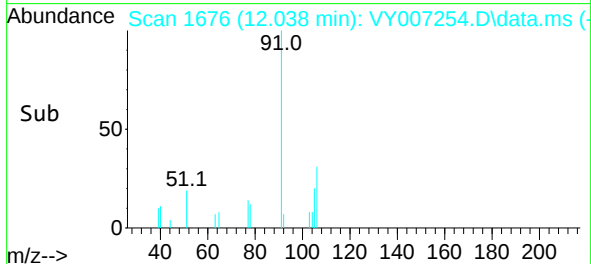
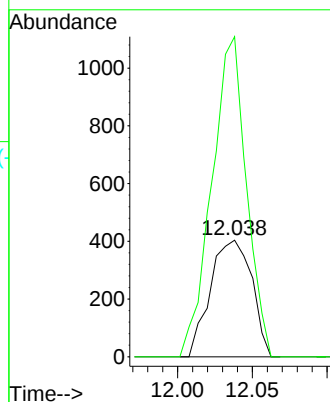
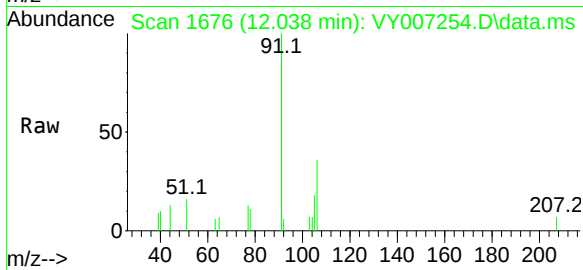
ClientSampleId :

Tgt Ion:106 Resp: 777

Ion Ratio Lower Upper

106 100

91 229.7 109.9 329.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY007254.D

Acq: 21 Jan 2022 15:26

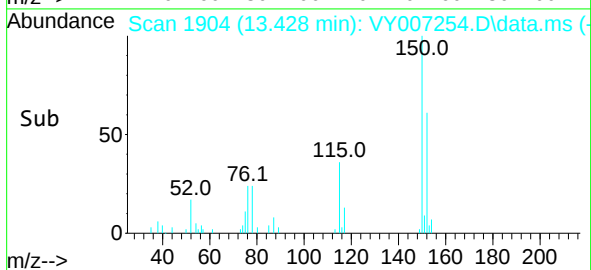
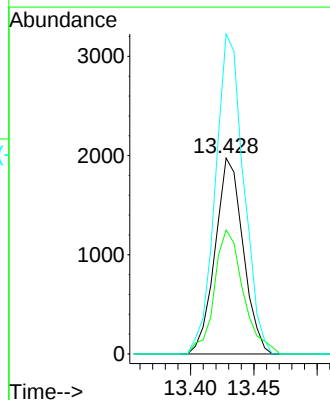
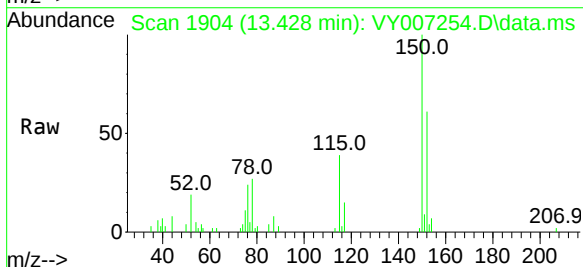
Tgt Ion:152 Resp: 3032

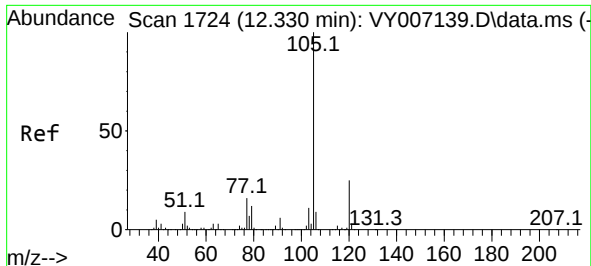
Ion Ratio Lower Upper

152 100

115 65.4 31.4 94.0

150 165.2 0.0 348.4

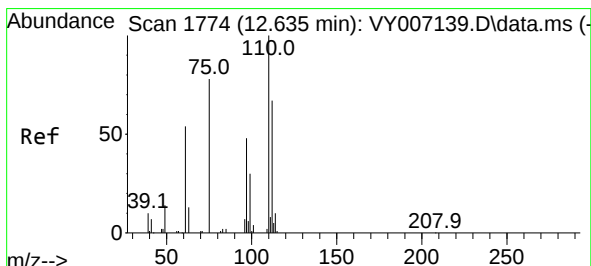
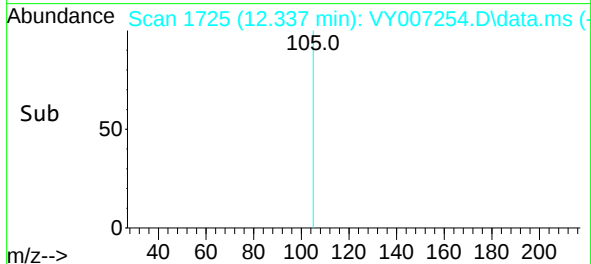
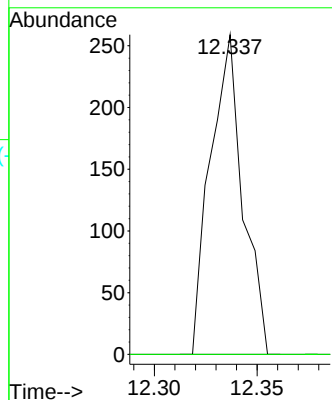
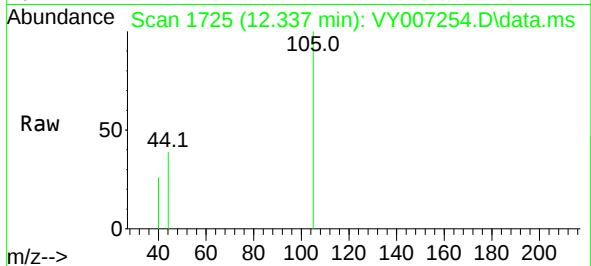




#73
Isopropylbenzene
Concen: 1.088 ug/l
RT: 12.337 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

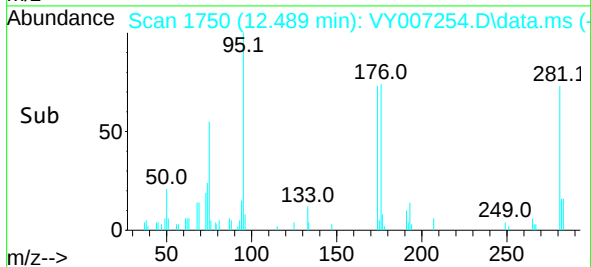
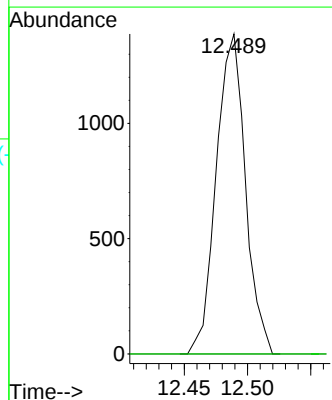
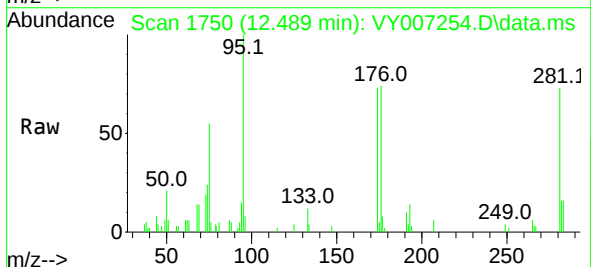
Instrument :
MSVOA_Y
ClientSampleId :

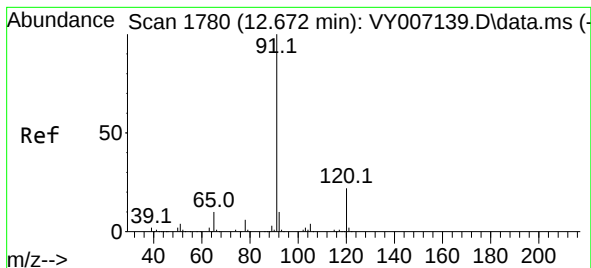
Tgt Ion:105 Resp: 285
Ion Ratio Lower Upper
105 100
120 0.0 13.1 39.1#



#76
1,2,3-Trichloropropane
Concen: 64.241 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.146 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

Tgt Ion: 75 Resp: 2221
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#78

n-propylbenzene

Concen: 2.341 ug/l

RT: 12.678 min Scan# 1780

Delta R.T. 0.006 min

Lab File: VY007254.D

Acq: 21 Jan 2022 15:26

Instrument :

MSVOA_Y

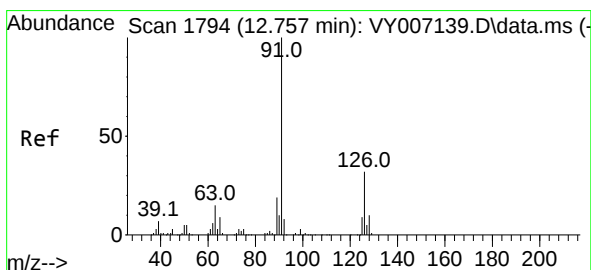
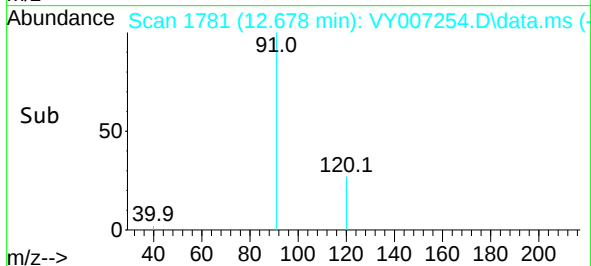
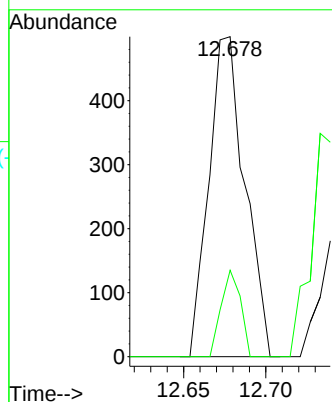
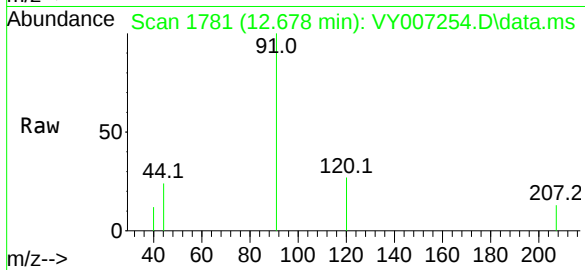
ClientSampleId :

Tgt Ion: 91 Resp: 760

Ion Ratio Lower Upper

91 100

120 14.6 11.2 33.5



#79

2-Chlorotoluene

Concen: 2.399 ug/l

RT: 12.745 min Scan# 1792

Delta R.T. -0.012 min

Lab File: VY007254.D

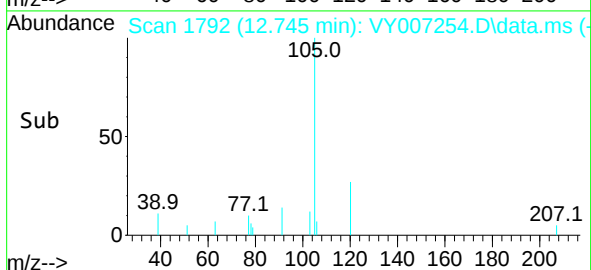
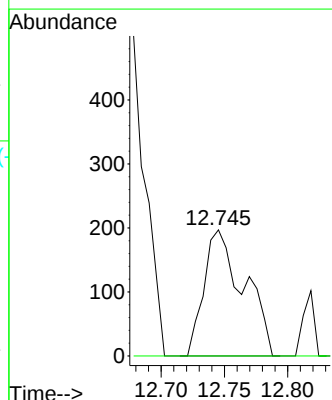
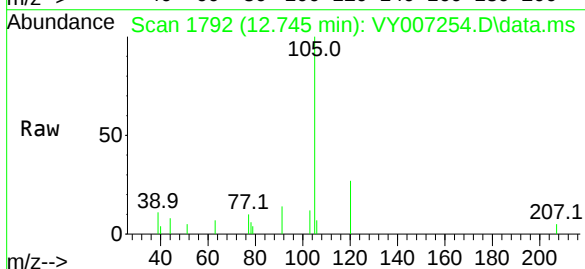
Acq: 21 Jan 2022 15:26

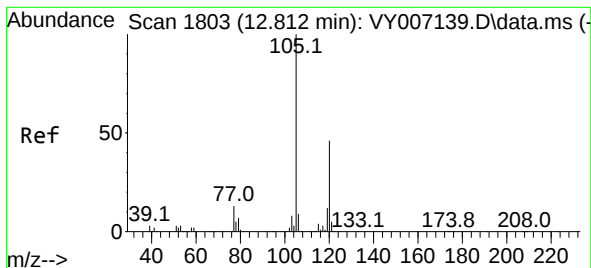
Tgt Ion: 91 Resp: 433

Ion Ratio Lower Upper

91 100

126 0.0 16.4 49.1#





#80

1,3,5-Trimethylbenzene

Concen: 4.990 ug/l

RT: 12.818 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY007254.D

Acq: 21 Jan 2022 15:26

Instrument :

MSVOA_Y

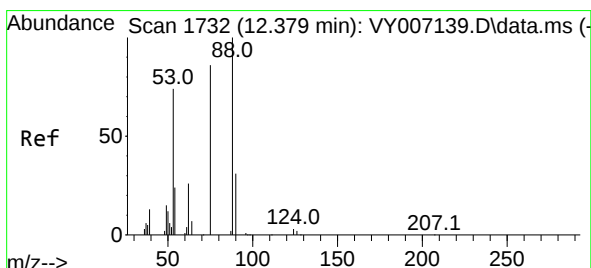
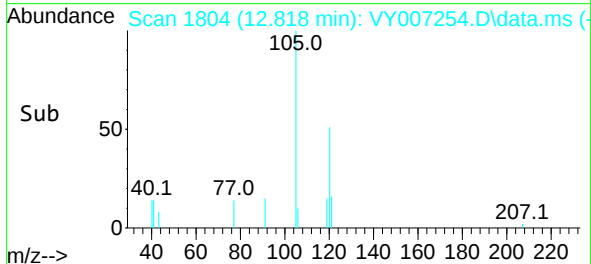
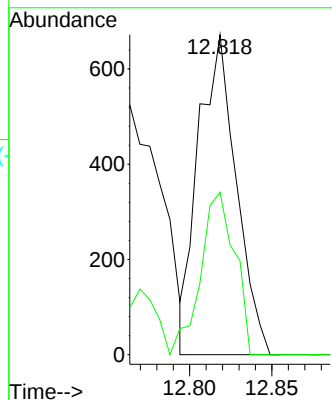
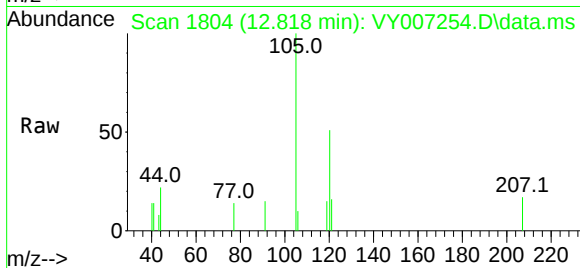
ClientSampleId :

Tgt Ion:105 Resp: 1073

Ion Ratio Lower Upper

105 100

120 45.9 23.7 71.1



#81

trans-1,4-Dichloro-2-butene

Concen: 117.608 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. 0.110 min

Lab File: VY007254.D

Acq: 21 Jan 2022 15:26

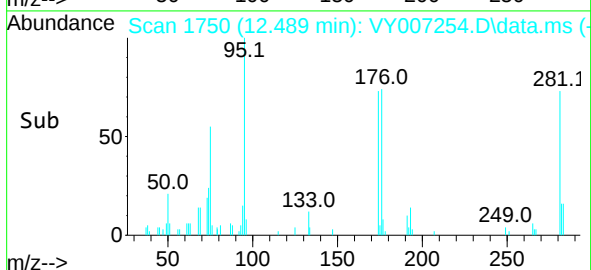
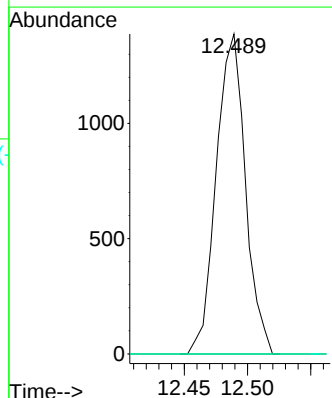
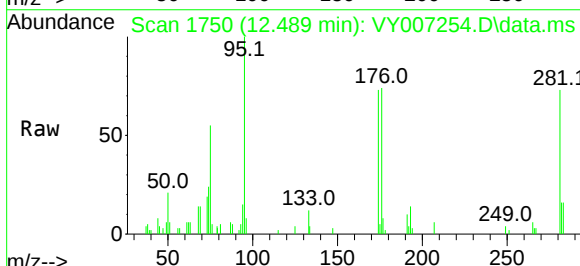
Tgt Ion: 75 Resp: 2221

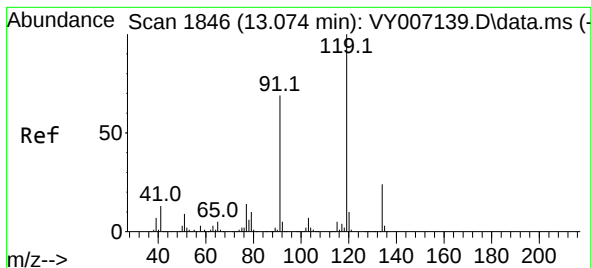
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 0.0 0.0





#83

tert-Butylbenzene

Concen: 2.912 ug/l

RT: 13.123 min Scan# 1846

Delta R.T. 0.049 min

Lab File: VY007254.D

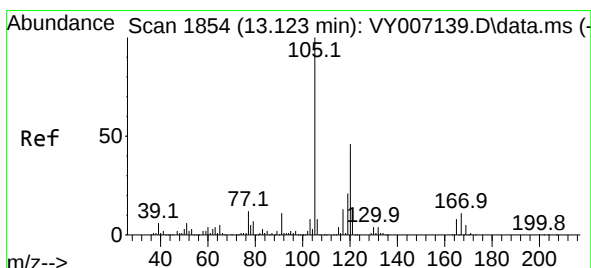
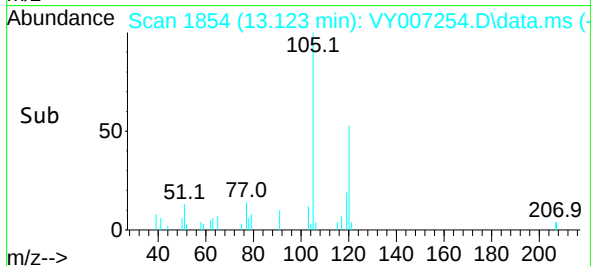
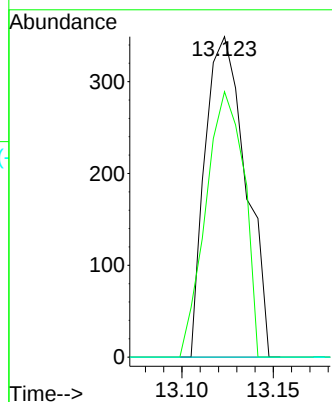
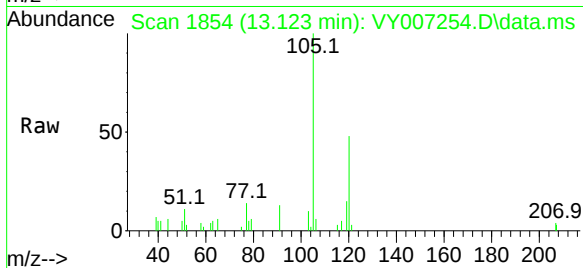
Acq: 21 Jan 2022 15:26

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:119	Resp:	541
Ion Ratio	Lower	Upper
119	100	
91	77.8	33.1 99.5
134	0.0	12.9 38.7#



#84

1,2,4-Trimethylbenzene

Concen: 15.718 ug/l

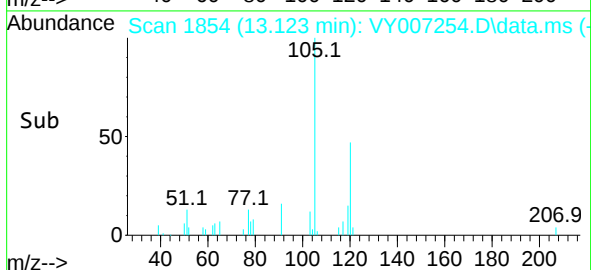
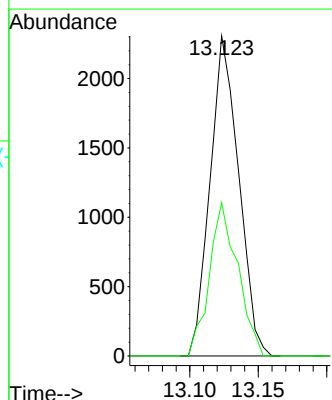
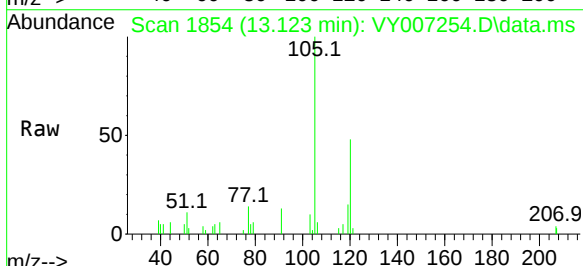
RT: 13.123 min Scan# 1854

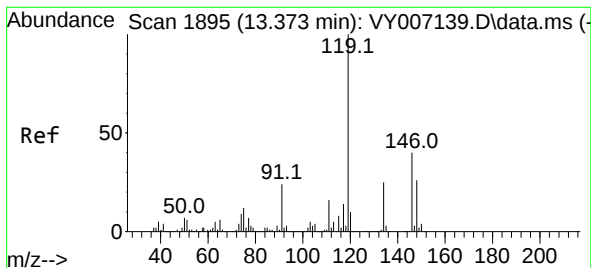
Delta R.T. 0.000 min

Lab File: VY007254.D

Acq: 21 Jan 2022 15:26

Tgt Ion:105	Resp:	3350
Ion Ratio	Lower	Upper
105	100	
120	47.6	21.6 64.6

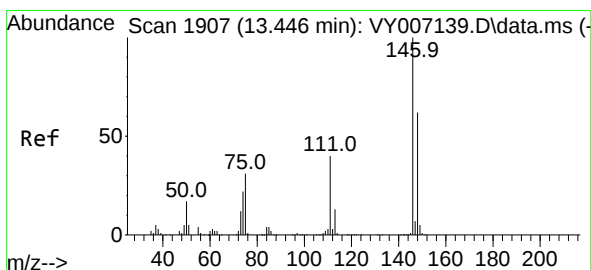
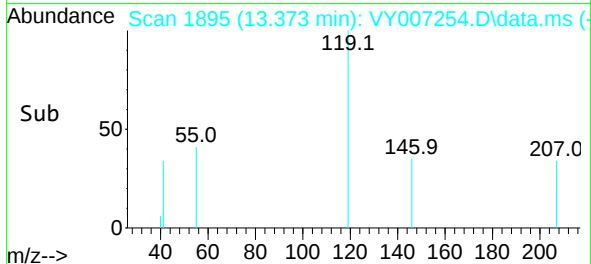
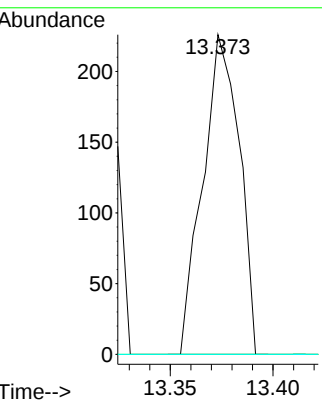
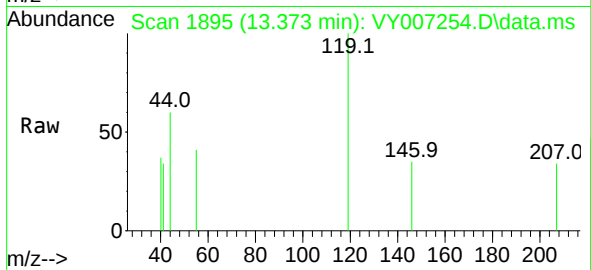




#86
 p-Isopropyltoluene
 Concen: 1.221 ug/l
 RT: 13.373 min Scan# 119
 Delta R.T. 0.000 min
 Lab File: VY007254.D
 Acq: 21 Jan 2022 15:26

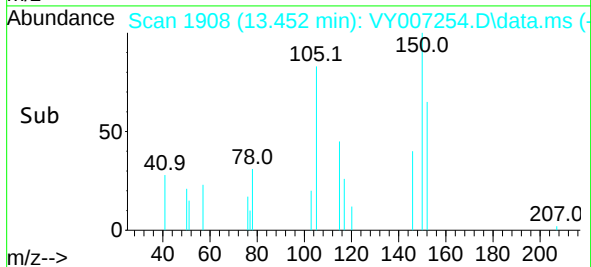
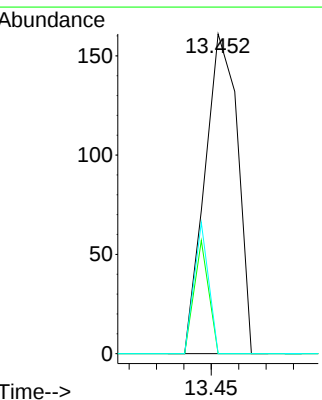
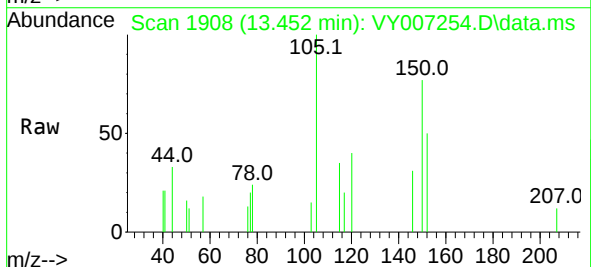
Instrument :
 MSVOA_Y
 ClientSampleId :

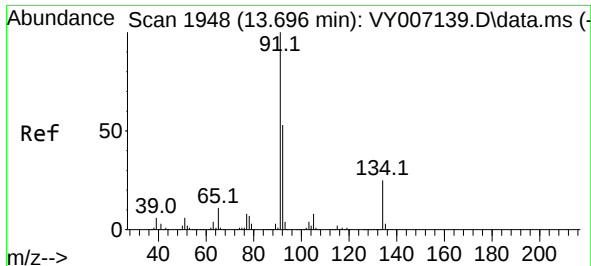
Tgt Ion:119 Resp: 279
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.9 38.7#
 91 0.0 12.4 37.2#



#88
 1,4-Dichlorobenzene
 Concen: 1.195 ug/l
 RT: 13.452 min Scan# 1908
 Delta R.T. 0.006 min
 Lab File: VY007254.D
 Acq: 21 Jan 2022 15:26

Tgt Ion:146 Resp: 134
 Ion Ratio Lower Upper
 146 100
 111 15.7 20.7 62.1#
 148 17.9 32.0 96.2#

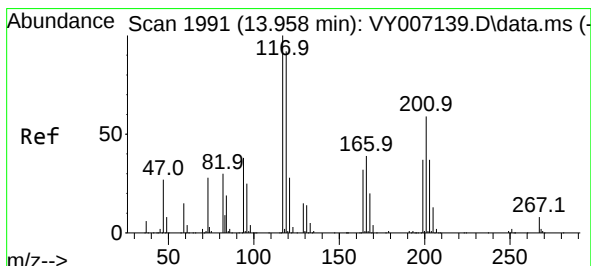
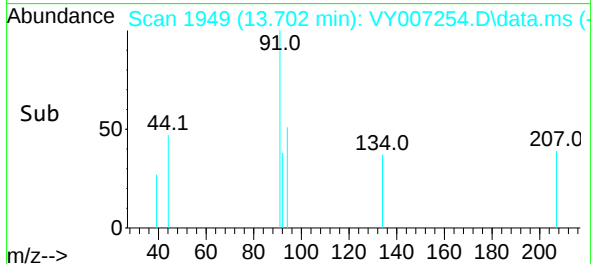
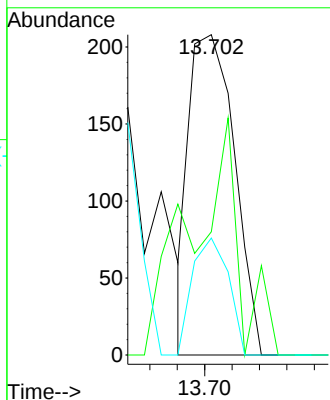
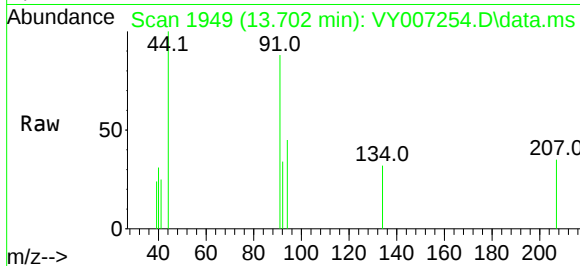




#89
n-Butylbenzene
Concen: 1.058 ug/l
RT: 13.702 min Scan# 1949
Delta R.T. 0.006 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

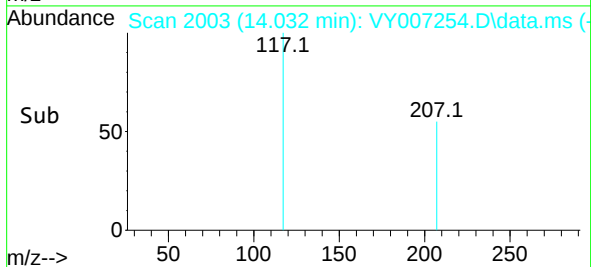
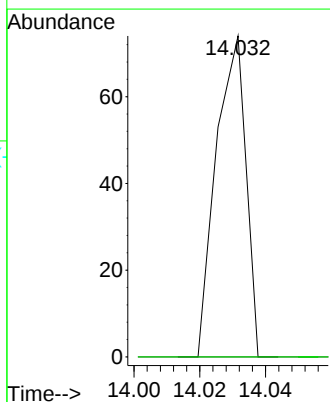
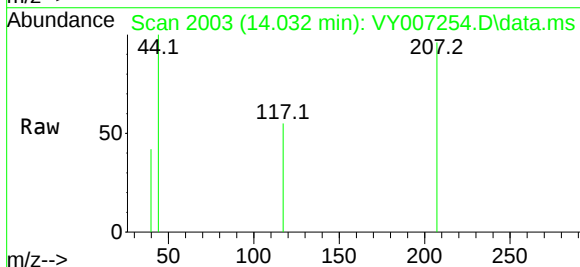
Instrument :
MSVOA_Y
ClientSampleId :

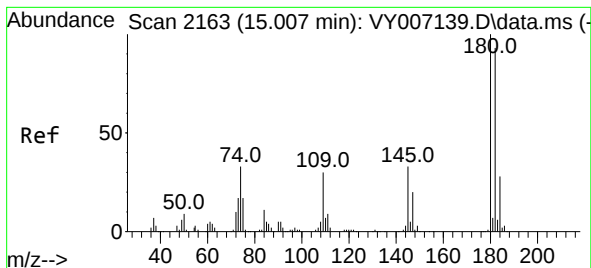
Tgt Ion: 91 Resp: 238
Ion Ratio Lower Upper
91 100
92 79.8 26.9 80.6
134 29.4 12.6 37.6



#90
Hexachloroethane
Concen: 1.030 ug/l
RT: 14.032 min Scan# 2003
Delta R.T. 0.073 min
Lab File: VY007254.D
Acq: 21 Jan 2022 15:26

Tgt Ion: 117 Resp: 46
Ion Ratio Lower Upper
117 100
201 0.0 33.6 100.6#





#93

1,2,4-Trichlorobenzene

Concen: 2.154 ug/l

RT: 15.013 min Scan# 2163

Delta R.T. 0.006 min

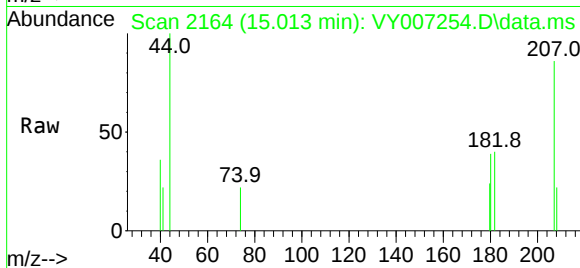
Lab File: VY007254.D

Acq: 21 Jan 2022 15:26

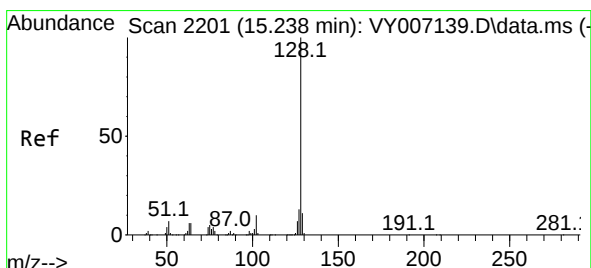
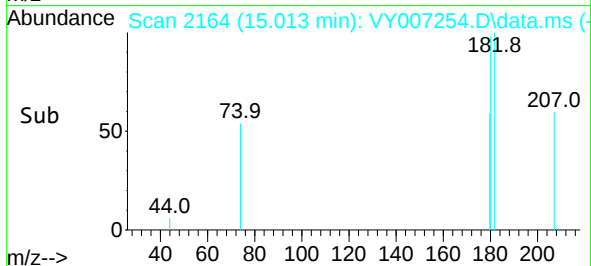
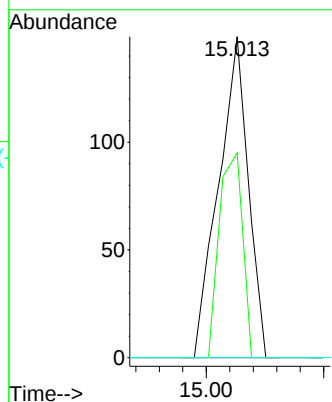
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:180	Resp:	130
Ion Ratio	Lower	Upper
180	100	
182	50.0	47.6 142.8
145	0.0	16.4 49.1#



#95

Naphthalene

Concen: 2.809 ug/l

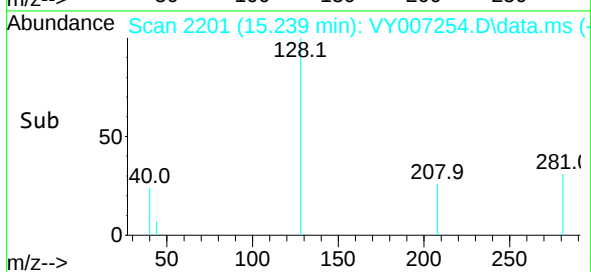
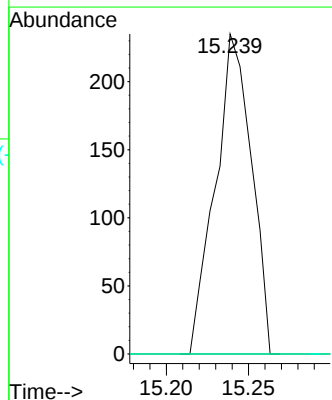
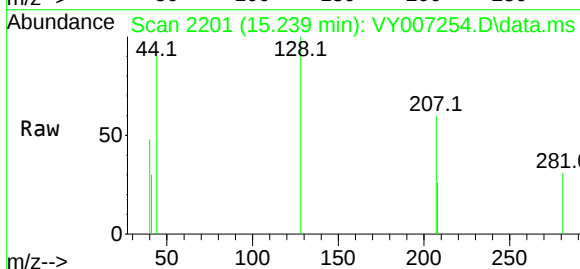
RT: 15.239 min Scan# 2201

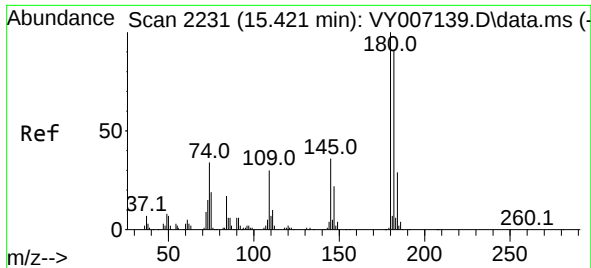
Delta R.T. 0.000 min

Lab File: VY007254.D

Acq: 21 Jan 2022 15:26

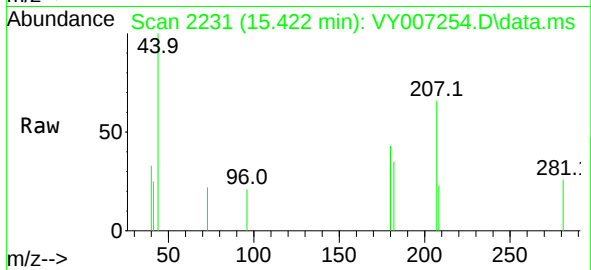
Tgt Ion:128	Resp:	360
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.3 15.5#
129	0.0	8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.379 ug/l
 RT: 15.422 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY007254.D
 Acq: 21 Jan 2022 15:26

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:180 Resp: 71
 Ion Ratio Lower Upper
 180 100
 182 84.5 47.3 141.8
 145 0.0 17.2 51.5#

