

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022422\
 Data File : VY007620.D
 Acq On : 24 Feb 2022 16:16
 Operator : SY/MD
 Sample : N1539-01
 Misc : 4.51g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 25 05:42:50 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022322S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 24 07:13:58 2022
 Response via : Initial Calibration

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

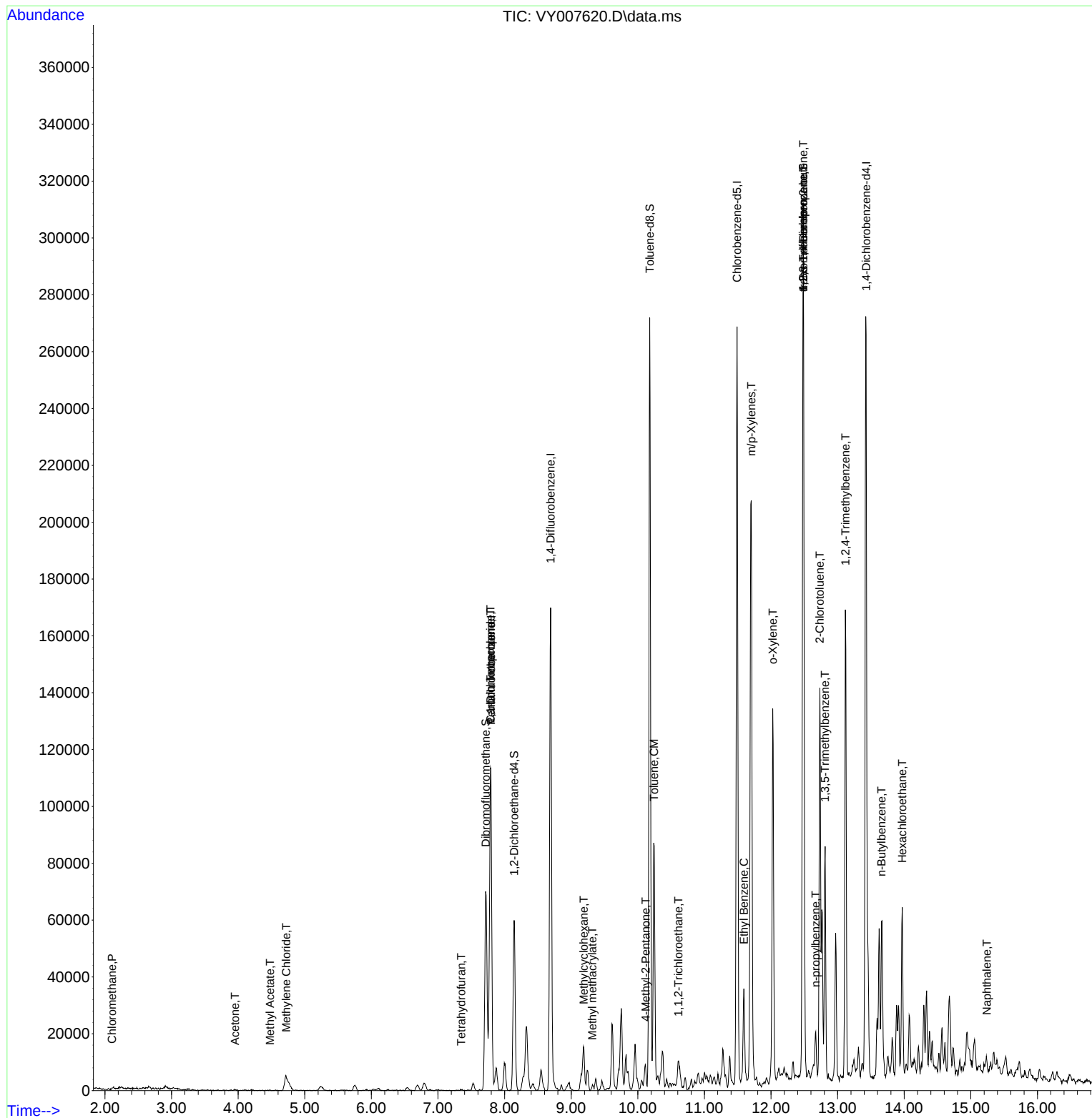
Internal Standards						
1) Pentafluorobenzene	7.795	168	85173	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	144162	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	144241	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	67313	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	48166	50.834	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 101.660%	
35) Dibromofluoromethane	7.716	113	46393	51.001	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.000%	
50) Toluene-d8	10.179	98	171400	50.858	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 101.720%	
62) 4-Bromofluorobenzene	12.483	95	60174	52.316	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 104.640%	
Target Compounds						Qvalue
3) Chloromethane	2.107	50	344	1.079	ug/l #	44
5) Bromomethane	2.668	94	224	Below Cal	#	50
16) Acetone	3.954	43	616	2.855	ug/l #	85
18) Methyl Acetate	4.478	43	67	1.383	ug/l #	56
20) Methylene Chloride	4.722	84	3840	1.133	ug/l #	59
29) Tetrahydrofuran	7.350	42	183	1.285	ug/l #	38
36) 1,1-Dichloropropene	7.789	75	5803	4.427	ug/l #	55
38) Carbon Tetrachloride	7.789	117	8910	4.642	ug/l #	15
39) Methylcyclohexane	9.191	83	4758	1.307	ug/l	84
48) Methyl methacrylate	9.319	41	606	1.192	ug/l #	37
51) 4-Methyl-2-Pentanone	10.118	43	1151	1.897	ug/l #	80
52) Toluene	10.246	92	35085	13.753	ug/l	98
55) 1,1,2-Trichloroethane	10.611	97	2631	2.993	ug/l #	18
67) Ethyl Benzene	11.593	91	20744	3.934	ug/l	93
68) m/p-Xylenes	11.703	106	66474	32.190	ug/l	94
69) o-Xylene	12.026	106	33656	16.571	ug/l	96
76) 1,2,3-Trichloropropane	12.483	75	37461	55.644	ug/l #	100
78) n-propylbenzene	12.672	91	10061	1.680	ug/l	99
79) 2-Chlorotoluene	12.733	91	10571	3.171	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.812	105	39563	8.969	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.483	75	37461	119.643	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.117	105	85913	19.872	ug/l	98
89) n-Butylbenzene	13.660	91	7950	1.845	ug/l #	1
90) Hexachloroethane	13.970	117	2464	2.554	ug/l #	8
95) Naphthalene	15.239	128	3599	1.054	ug/l #	94

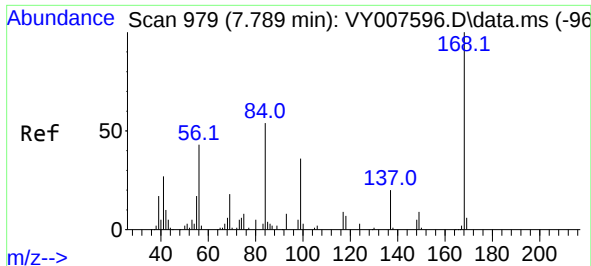
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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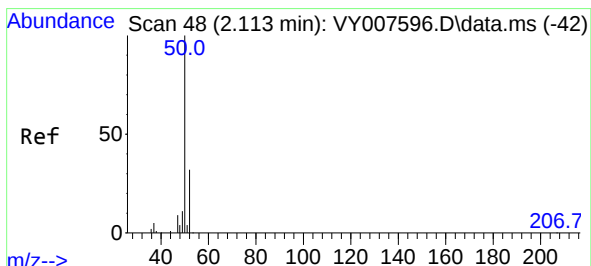
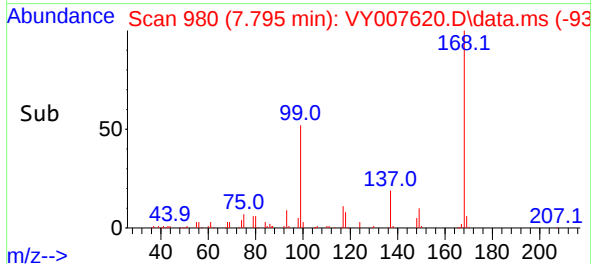
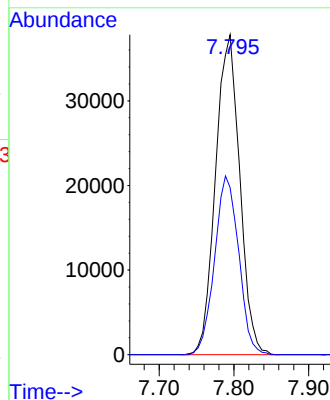
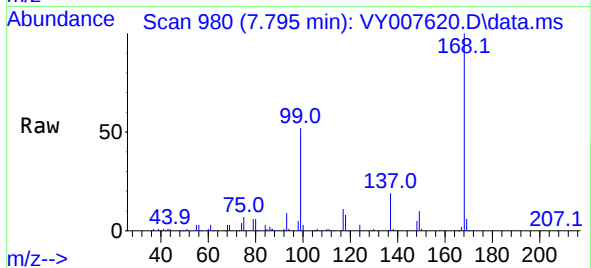




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

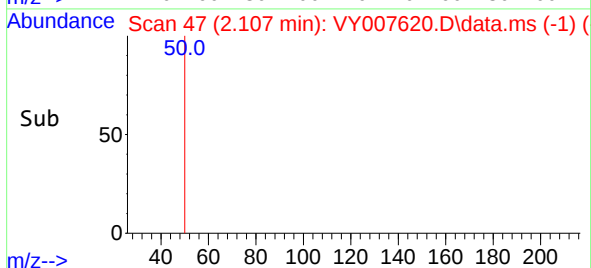
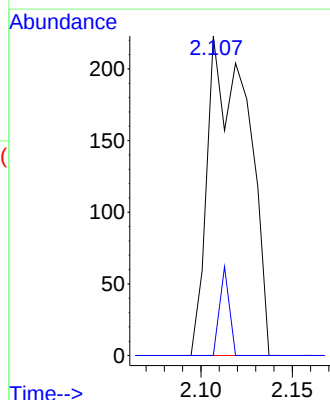
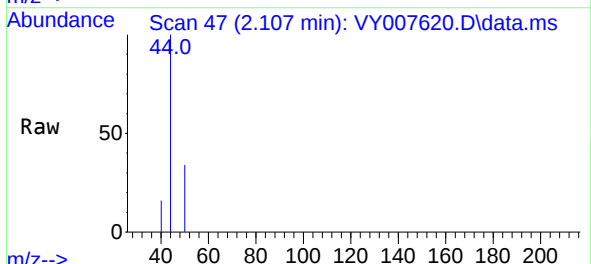
Instrument :
MSVOA_Y
ClientSampleId :

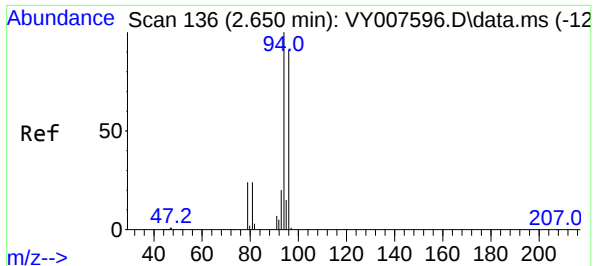
Tgt Ion:168 Resp: 85173
Ion Ratio Lower Upper
168 100
99 52.2 46.9 70.3



#3
Chloromethane
Concen: 1.079 ug/l
RT: 2.107 min Scan# 47
Delta R.T. -0.006 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Tgt Ion: 50 Resp: 344
Ion Ratio Lower Upper
50 100
52 0.0 24.6 37.0#

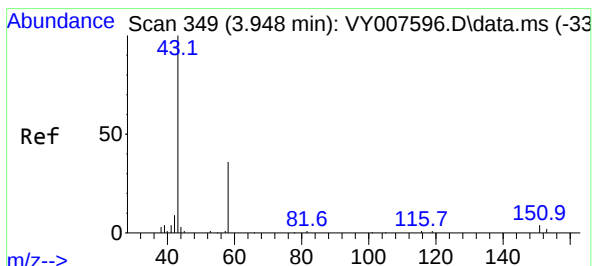
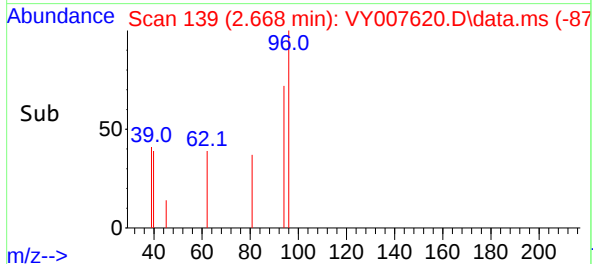
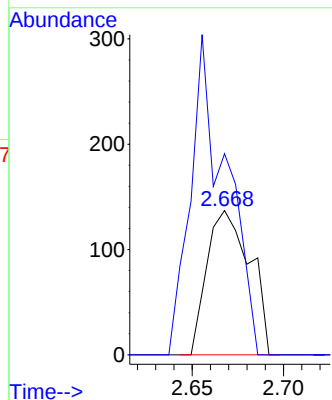
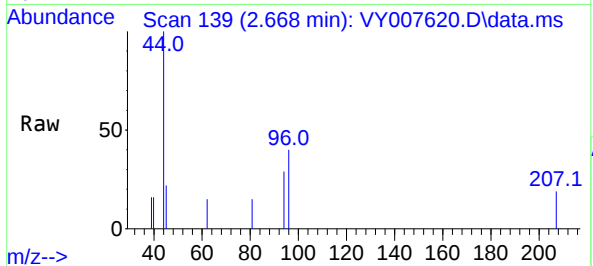




#5
Bromomethane
Concen: Below Cal
RT: 2.668 min Scan# 11
Delta R.T. 0.018 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

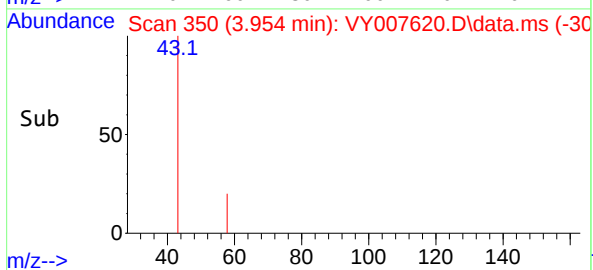
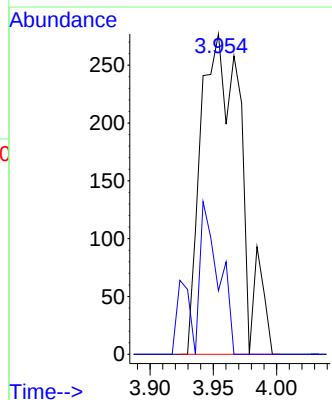
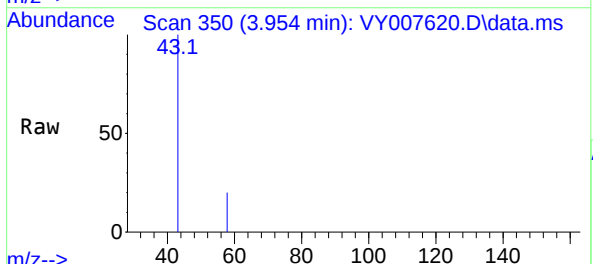
Instrument :
MSVOA_Y
ClientSampleId :

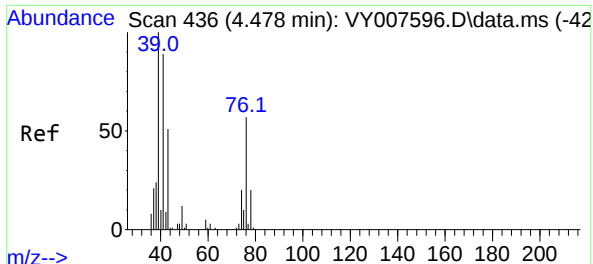
Tgt Ion: 94 Resp: 224
Ion Ratio Lower Upper
94 100
96 139.4 73.5 110.3#



#16
Acetone
Concen: 2.855 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.006 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Tgt Ion: 43 Resp: 616
Ion Ratio Lower Upper
43 100
58 19.9 22.0 33.0#





#18

Methyl Acetate

Concen: 1.383 ug/l

RT: 4.478 min Scan# 41

Delta R.T. 0.000 min

Lab File: VY007620.D

Acq: 24 Feb 2022 16:16

Instrument :

MSVOA_Y

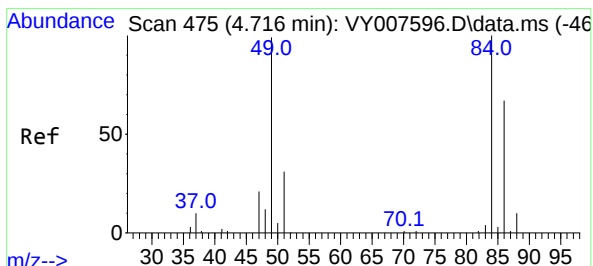
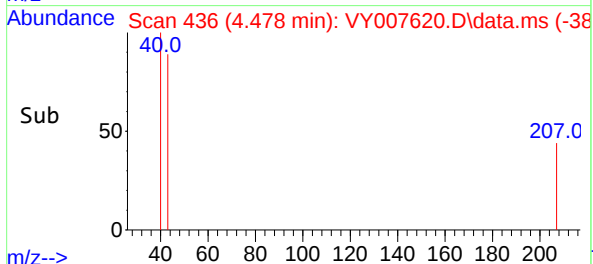
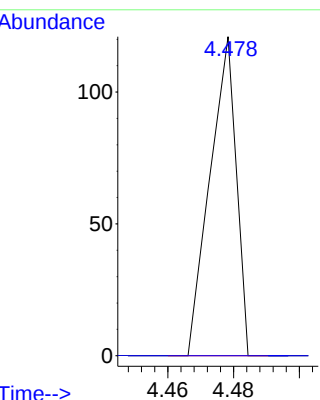
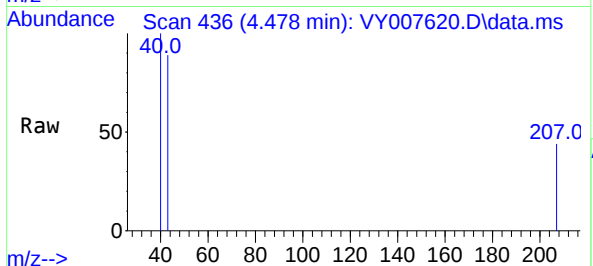
ClientSampleId :

Tgt Ion: 43 Resp: 67

Ion Ratio Lower Upper

43 100

74 0.0 16.6 24.8#



#20

Methylene Chloride

Concen: 1.133 ug/l

RT: 4.722 min Scan# 476

Delta R.T. 0.006 min

Lab File: VY007620.D

Acq: 24 Feb 2022 16:16

Tgt Ion: 84 Resp: 3840

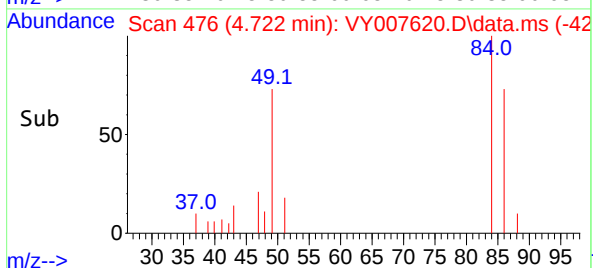
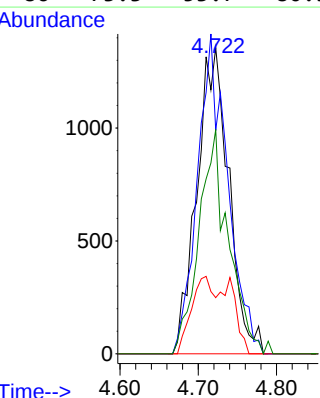
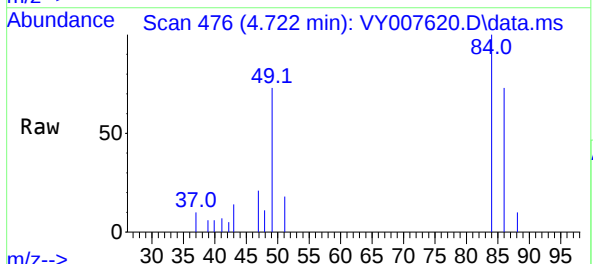
Ion Ratio Lower Upper

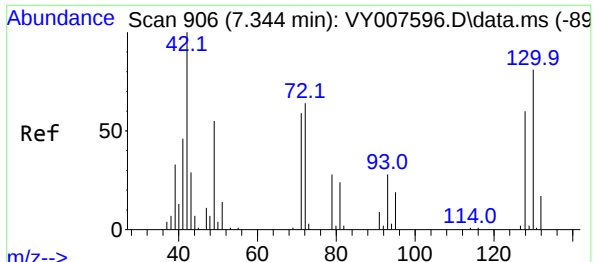
84 100

49 73.0 114.4 171.6#

51 18.4 35.3 52.9#

86 73.3 53.7 80.5

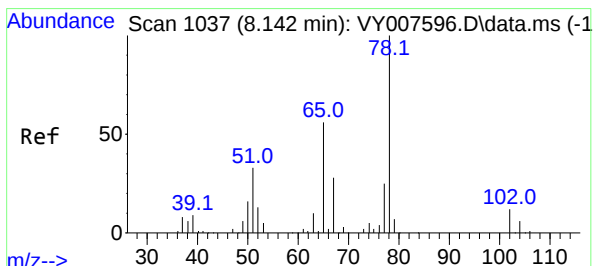
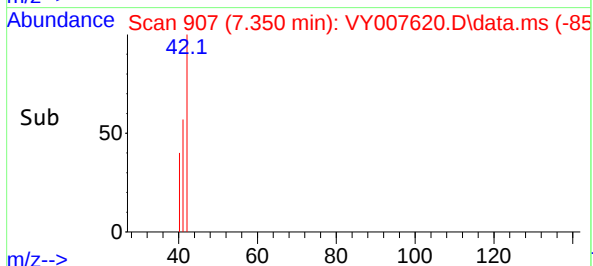
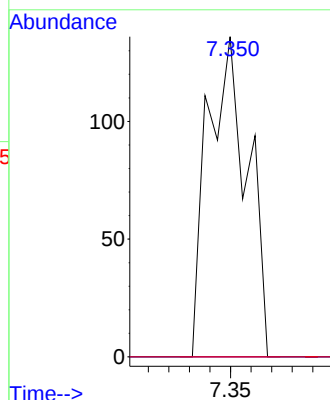
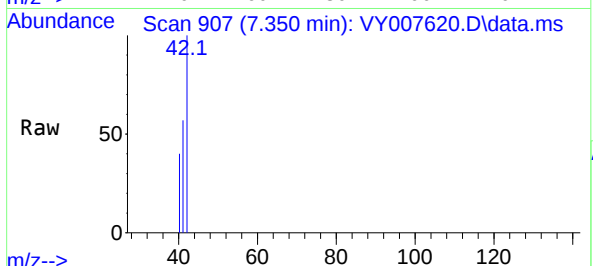




#29
Tetrahydrofuran
Concen: 1.285 ug/l
RT: 7.350 min Scan# 906
Delta R.T. 0.006 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

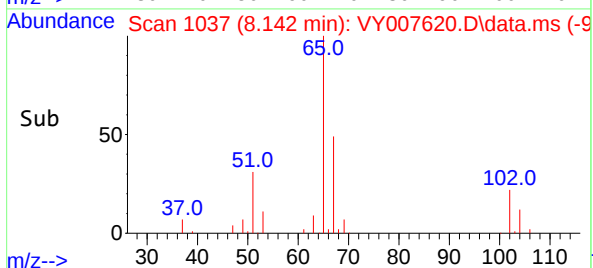
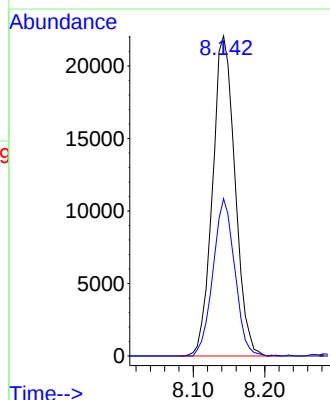
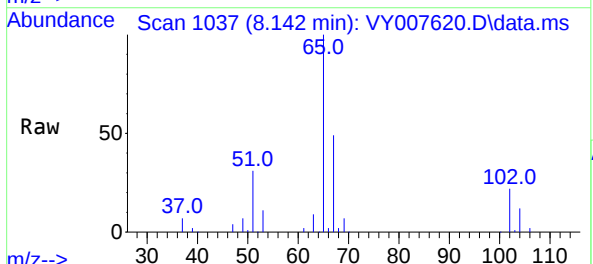
Instrument :
MSVOA_Y
ClientSampleId :

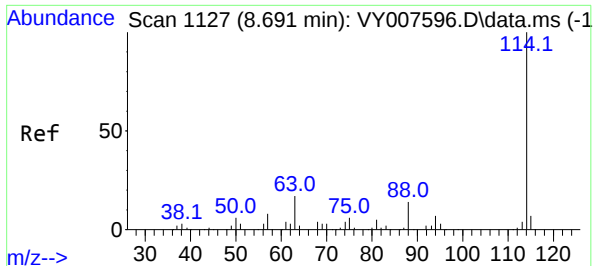
Tgt Ion: 42 Resp: 183
Ion Ratio Lower Upper
42 100
72 0.0 30.3 45.5#
71 0.0 29.0 43.4#



#33
1,2-Dichloroethane-d4
Concen: 50.834 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Tgt Ion: 65 Resp: 48166
Ion Ratio Lower Upper
65 100
67 47.4 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY007620.D

Acq: 24 Feb 2022 16:16

Instrument :

MSVOA_Y

ClientSampleId :

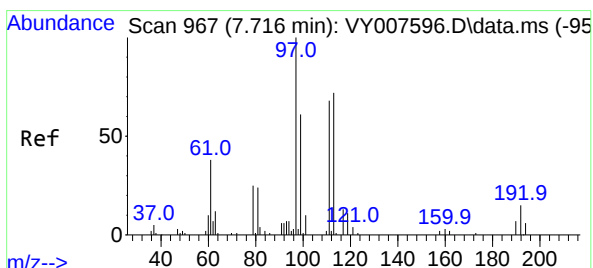
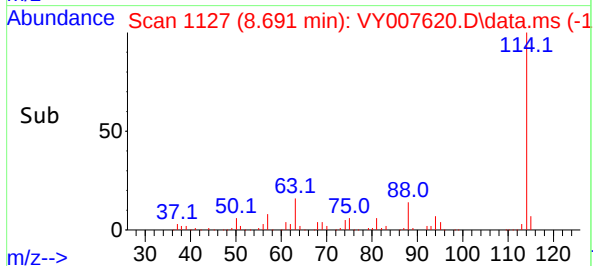
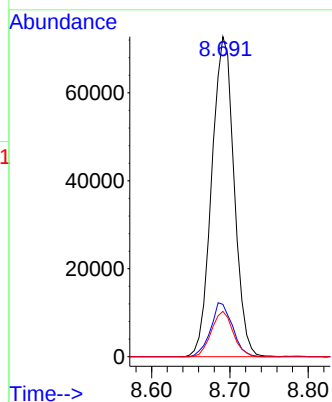
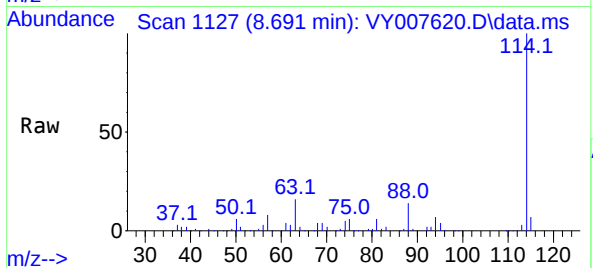
Tgt Ion:114 Resp: 144162

Ion Ratio Lower Upper

114 100

63 16.4 0.0 43.2

88 14.1 0.0 31.8



#35

Dibromofluoromethane

Concen: 51.001 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY007620.D

Acq: 24 Feb 2022 16:16

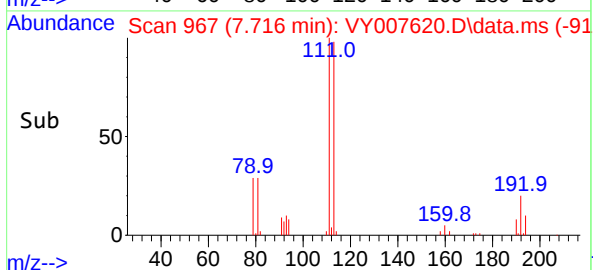
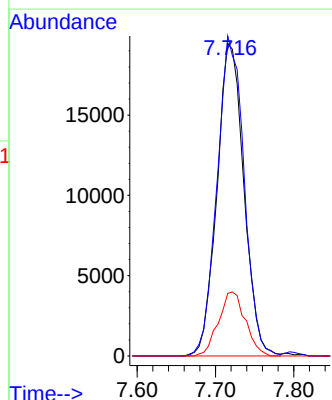
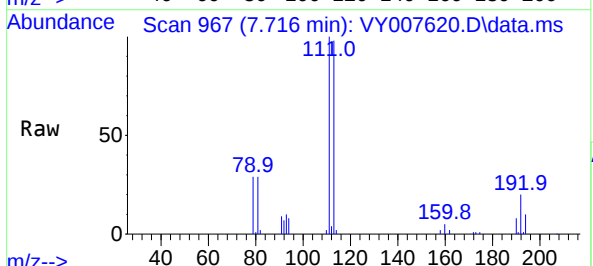
Tgt Ion:113 Resp: 46393

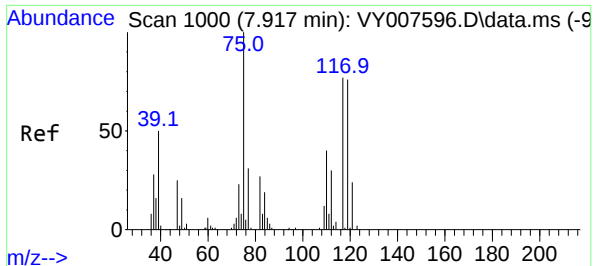
Ion Ratio Lower Upper

113 100

111 102.7 82.6 124.0

192 20.5 17.6 26.4





#36

1,1-Dichloropropene

Concen: 4.427 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.128 min

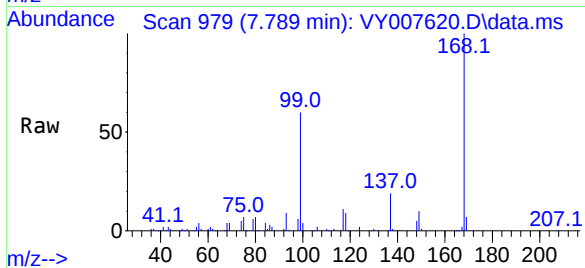
Lab File: VY007620.D

Acq: 24 Feb 2022 16:16

Instrument :

MSVOA_Y

ClientSampleId :



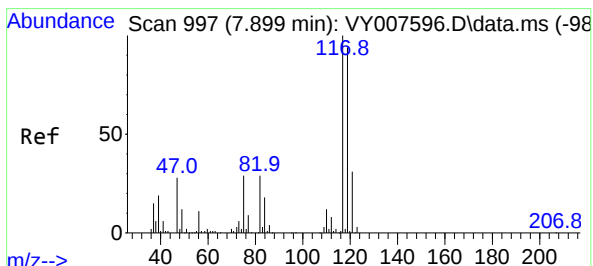
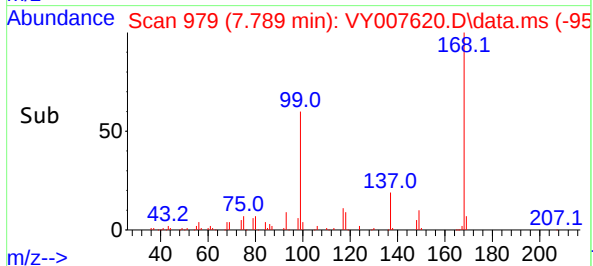
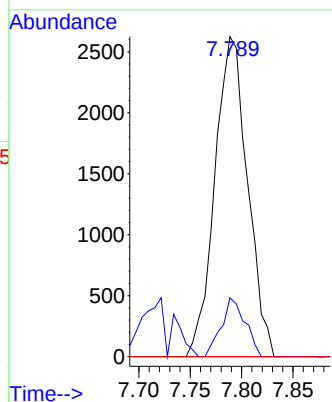
Tgt Ion: 75 Resp: 5803

Ion Ratio Lower Upper

75 100

110 13.4 17.1 51.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.642 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY007620.D

Acq: 24 Feb 2022 16:16

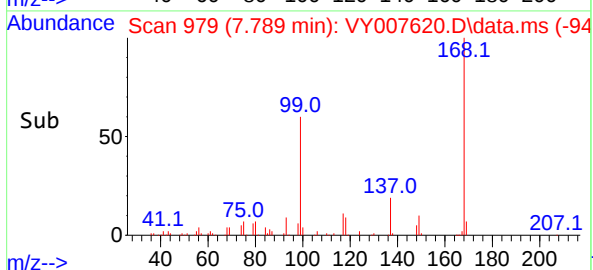
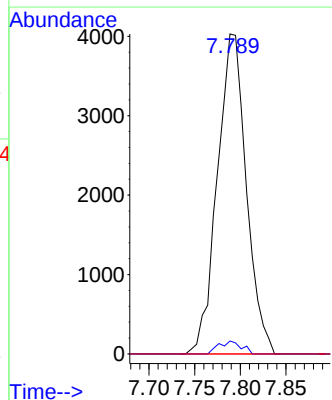
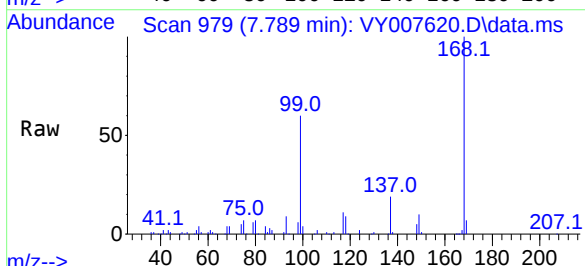
Tgt Ion: 117 Resp: 8910

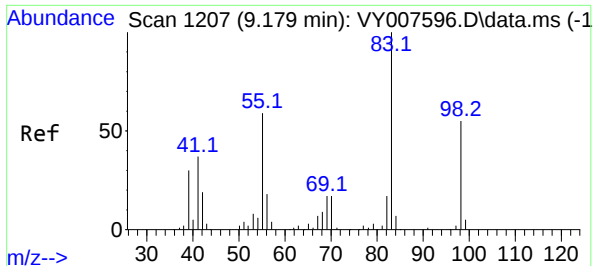
Ion Ratio Lower Upper

117 100

119 4.0 77.9 116.9#

121 0.0 24.8 37.2#





#39

Methylcyclohexane

Concen: 1.307 ug/l

RT: 9.191 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY007620.D

Acq: 24 Feb 2022 16:16

Instrument :

MSVOA_Y

ClientSampleId :

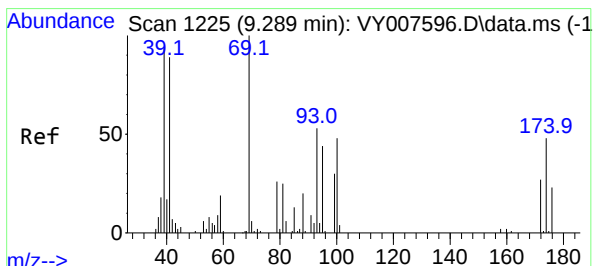
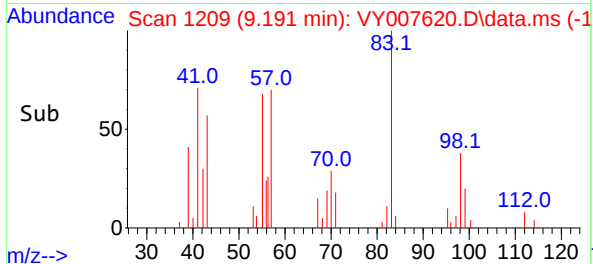
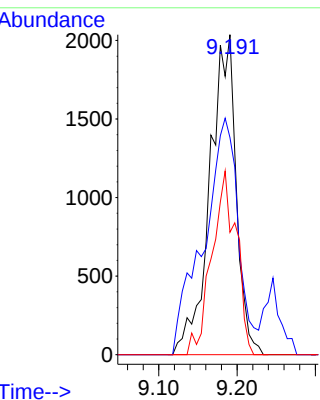
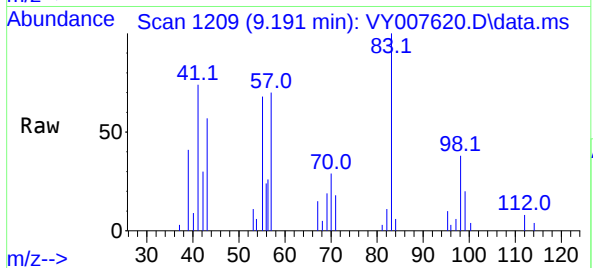
Tgt Ion: 83 Resp: 4758

Ion Ratio Lower Upper

83 100

55 67.8 66.5 99.7

98 38.2 37.9 56.9



#48

Methyl methacrylate

Concen: 1.192 ug/l

RT: 9.319 min Scan# 1230

Delta R.T. 0.030 min

Lab File: VY007620.D

Acq: 24 Feb 2022 16:16

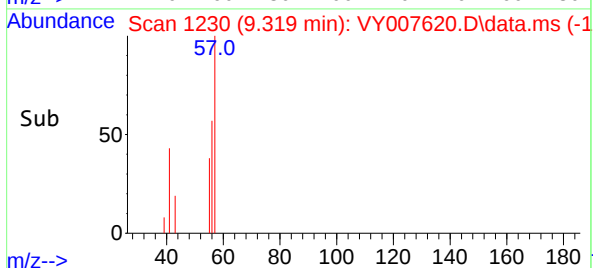
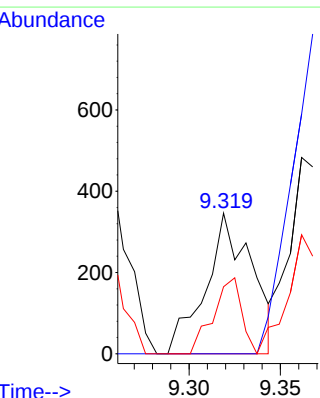
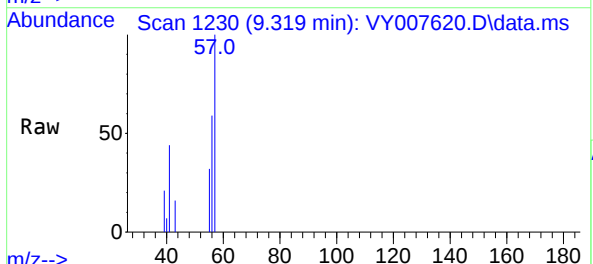
Tgt Ion: 41 Resp: 606

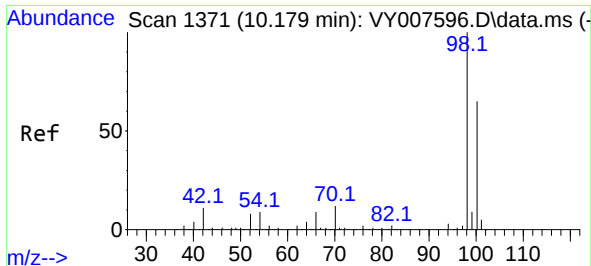
Ion Ratio Lower Upper

41 100

69 0.0 58.2 87.2#

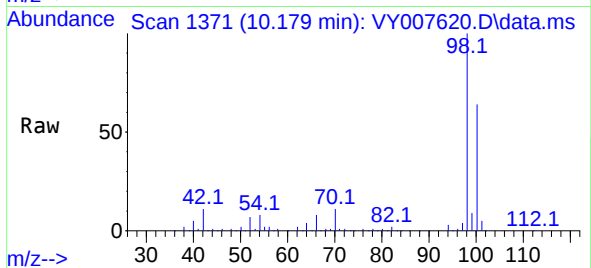
39 33.2 47.4 71.0#



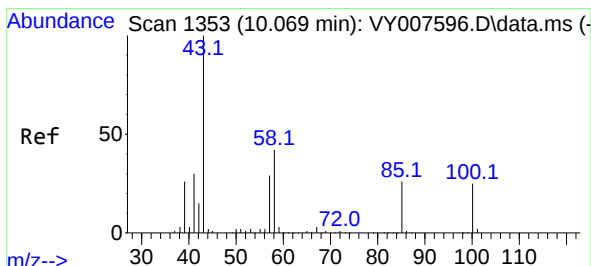
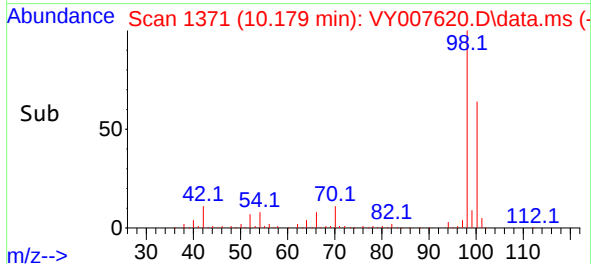
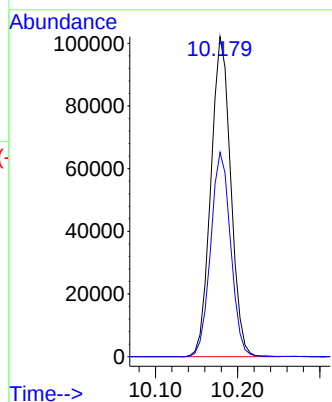


#50
Toluene-d8
Concen: 50.858 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.001 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Instrument :
MSVOA_Y
ClientSampleId :

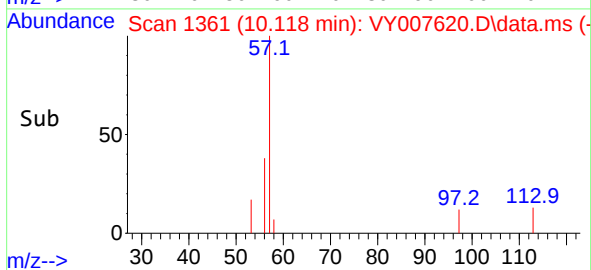
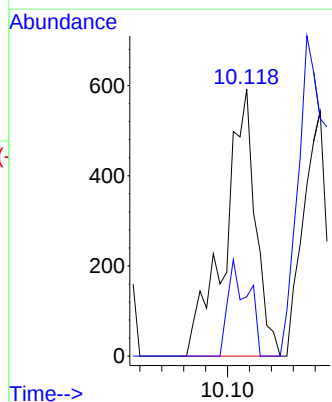
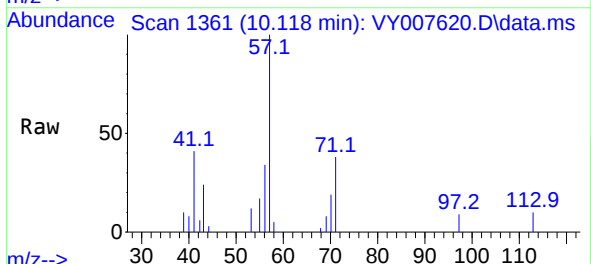


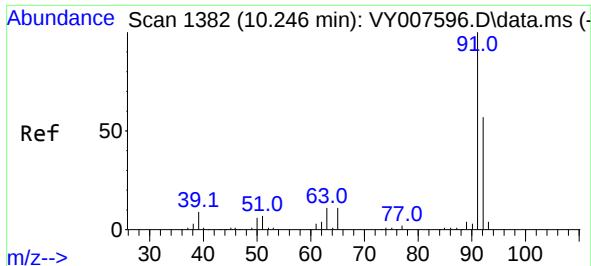
Tgt Ion: 98 Resp: 171400
Ion Ratio Lower Upper
98 100
100 64.1 50.2 75.2



#51
4-Methyl-2-Pentanone
Concen: 1.897 ug/l
RT: 10.118 min Scan# 1361
Delta R.T. 0.049 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Tgt Ion: 43 Resp: 1151
Ion Ratio Lower Upper
43 100
58 23.5 28.1 42.1#

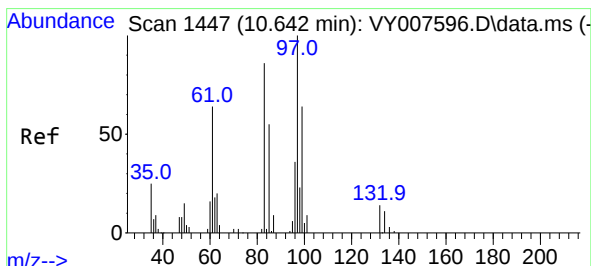
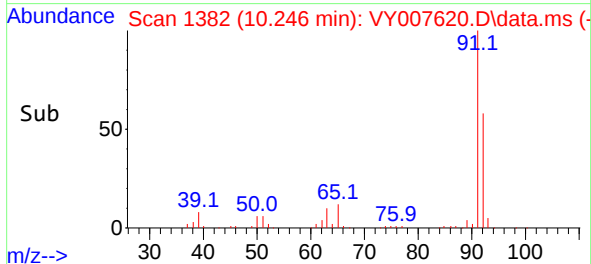
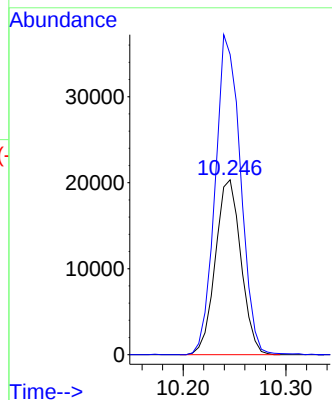
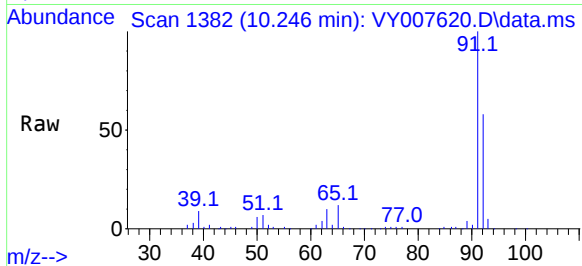




#52
Toluene
Concen: 13.753 ug/l
RT: 10.246 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

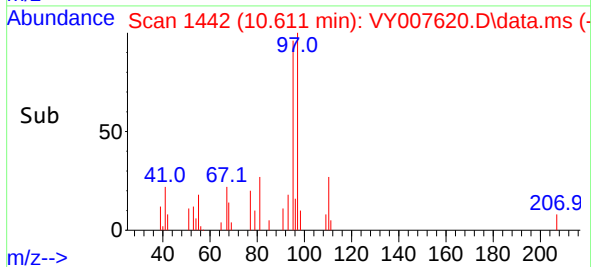
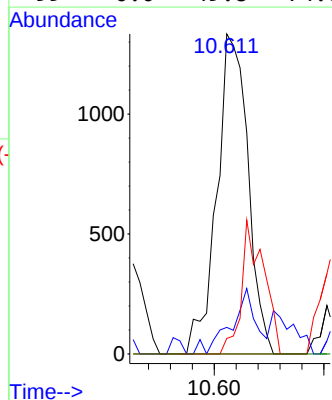
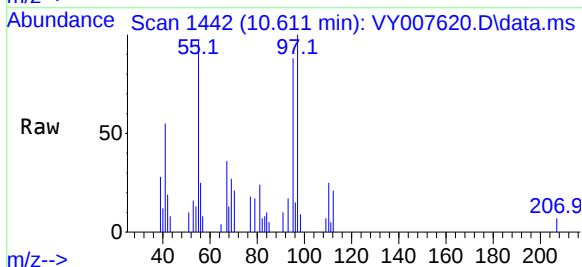
Instrument :
MSVOA_Y
ClientSampleId :

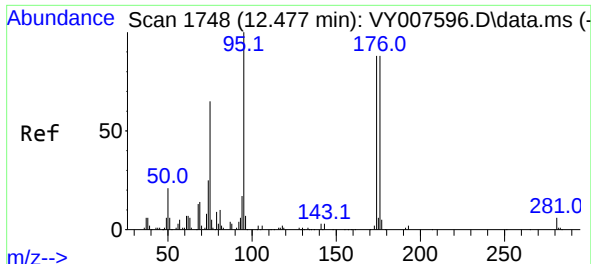
Tgt Ion: 92 Resp: 35085
Ion Ratio Lower Upper
92 100
91 181.6 142.6 213.8



#55
1,1,2-Trichloroethane
Concen: 2.993 ug/l
RT: 10.611 min Scan# 1442
Delta R.T. -0.031 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

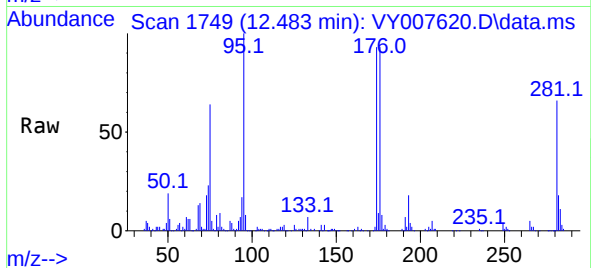
Tgt Ion: 97 Resp: 2631
Ion Ratio Lower Upper
97 100
83 4.2 69.8 104.8#
85 4.9 44.3 66.5#
99 0.0 49.8 74.6#



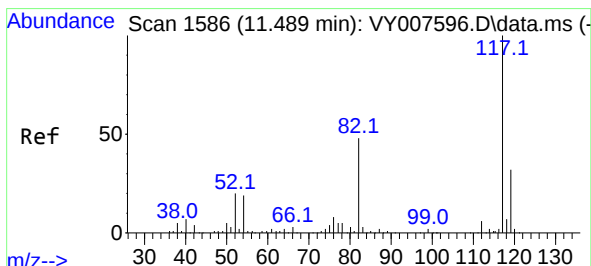
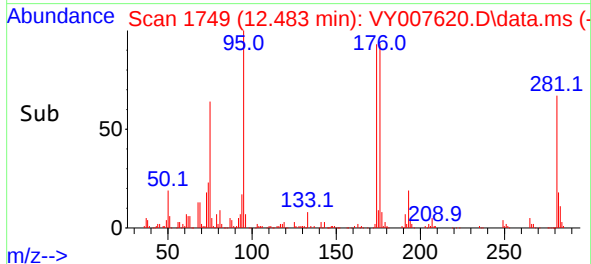
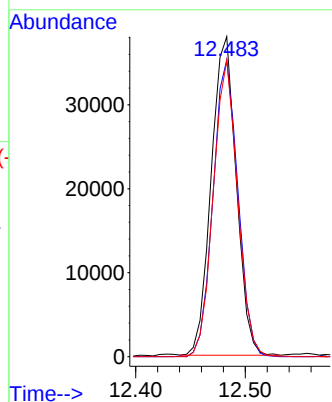


#62
4-Bromofluorobenzene
Concen: 52.316 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Instrument :
MSVOA_Y
ClientSampleId :

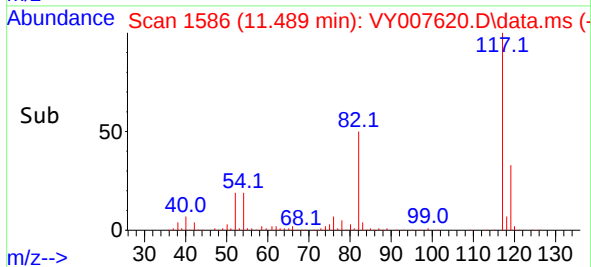
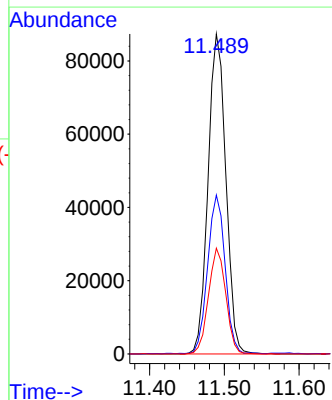
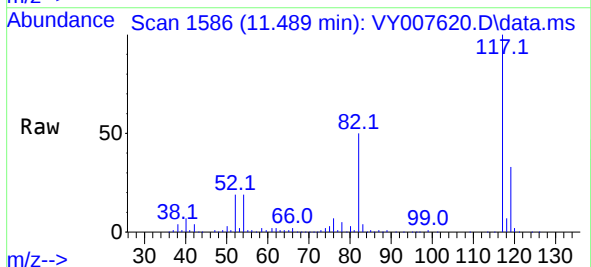


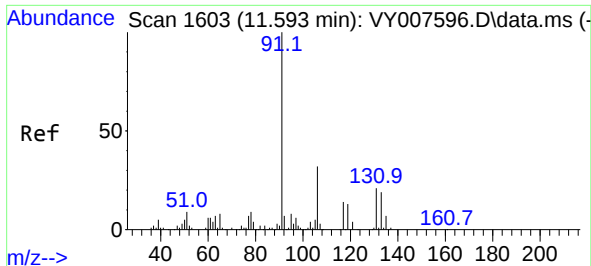
Tgt Ion: 95 Resp: 60174
Ion Ratio Lower Upper
95 100
174 92.3 0.0 177.0
176 90.2 0.0 175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Tgt Ion: 117 Resp: 144241
Ion Ratio Lower Upper
117 100
82 49.5 43.0 64.4
119 33.0 25.4 38.0

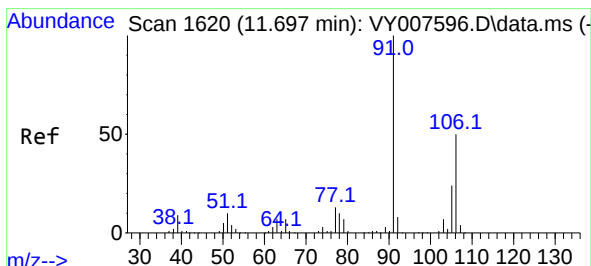
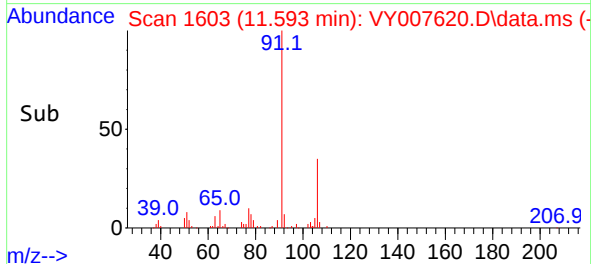
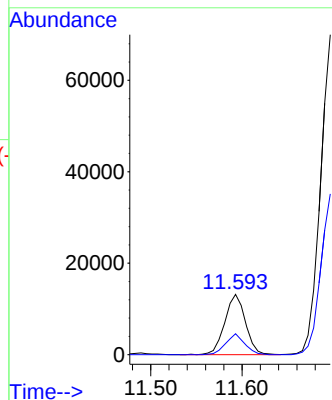
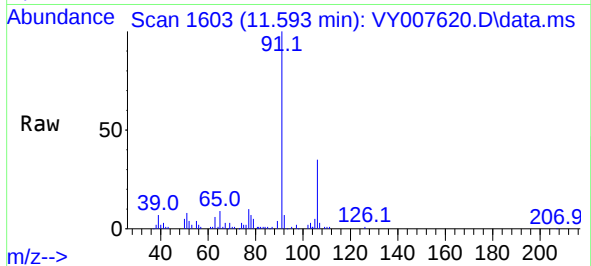




#67
Ethyl Benzene
Concen: 3.934 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. -0.000 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

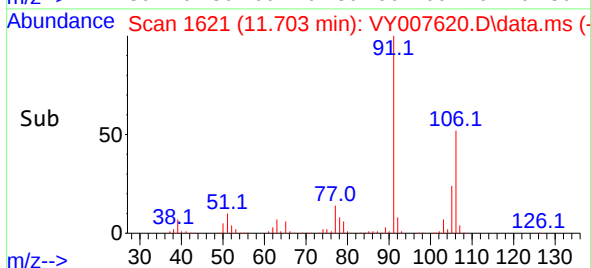
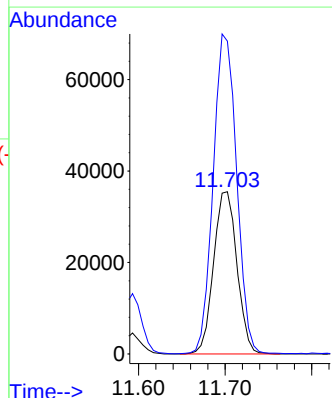
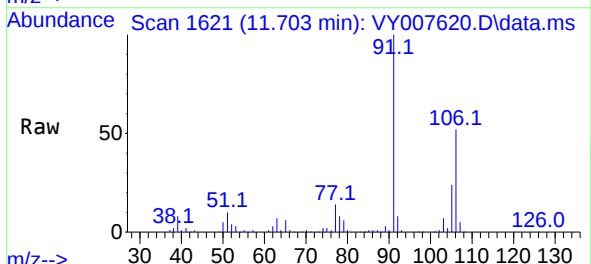
Instrument :
MSVOA_Y
ClientSampleId :

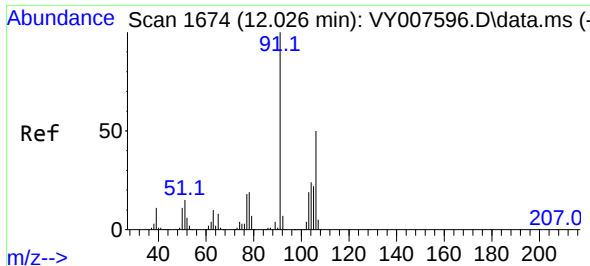
Tgt Ion: 91 Resp: 20744
Ion Ratio Lower Upper
91 100
106 34.6 24.5 36.7



#68
m/p-Xylenes
Concen: 32.190 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. 0.006 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Tgt Ion: 106 Resp: 66474
Ion Ratio Lower Upper
106 100
91 198.1 166.6 249.8

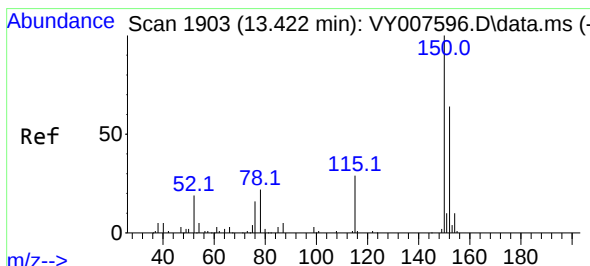
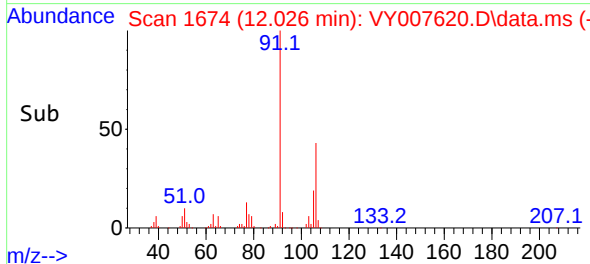
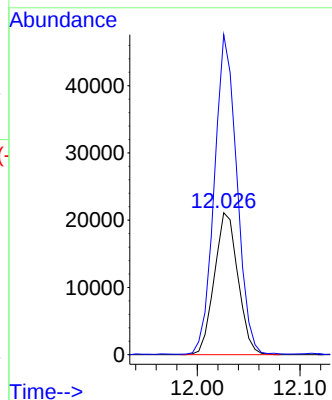
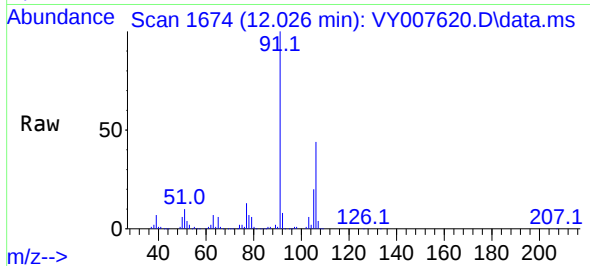




#69
o-Xylene
Concen: 16.571 ug/l
RT: 12.026 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

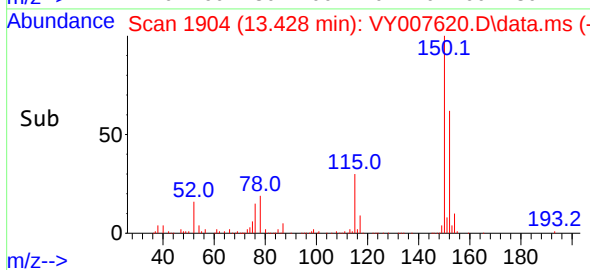
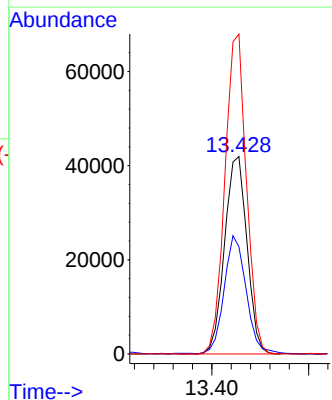
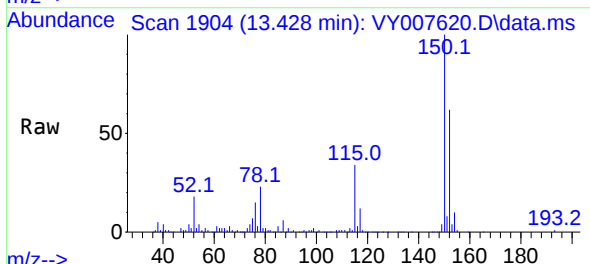
Instrument :
MSVOA_Y
ClientSampleId :

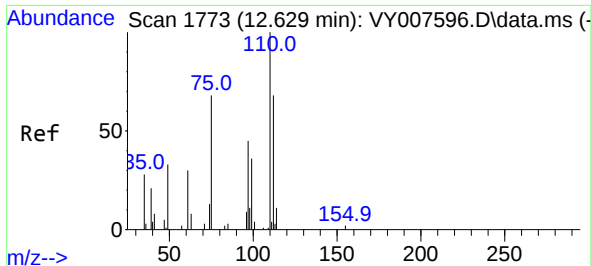
Tgt Ion:106 Resp: 33656
Ion Ratio Lower Upper
106 100
91 214.5 110.3 331.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Tgt Ion:152 Resp: 67313
Ion Ratio Lower Upper
152 100
115 59.2 28.2 84.7
150 155.3 0.0 347.6

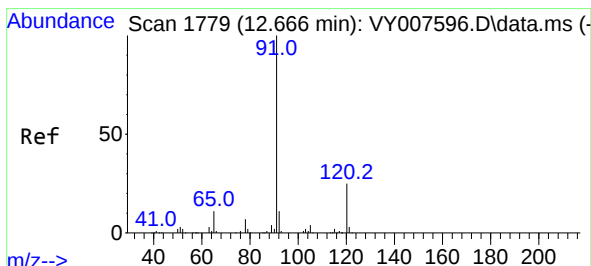
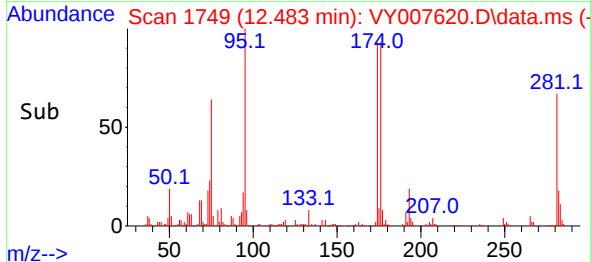
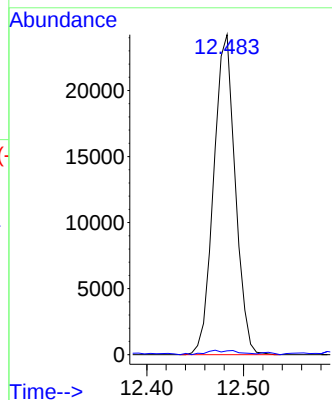
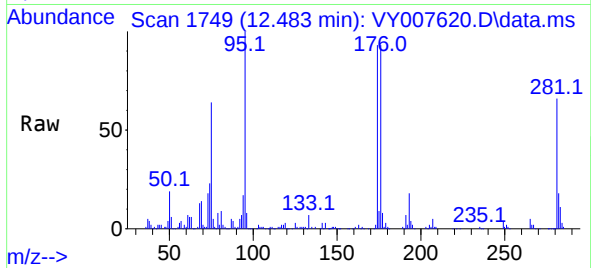




#76
1,2,3-Trichloropropane
Concen: 55.644 ug/l
RT: 12.483 min Scan# 11
Delta R.T. -0.146 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

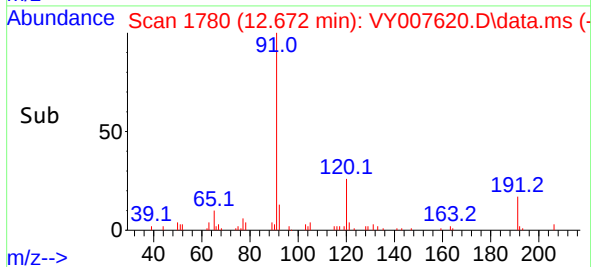
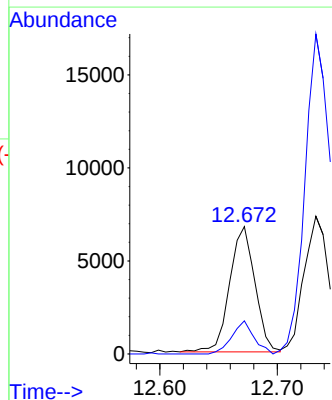
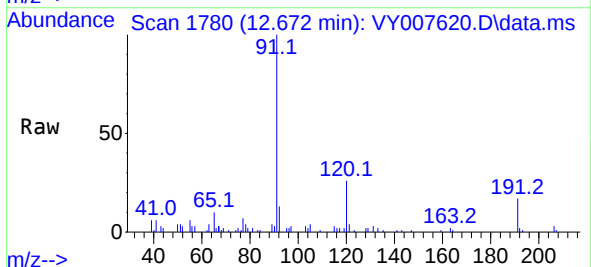
Instrument :
MSVOA_Y
ClientSampleId :

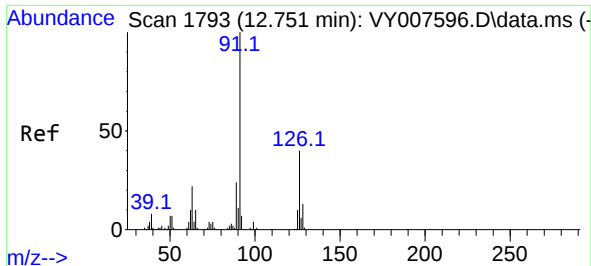
Tgt Ion: 75 Resp: 37461
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



#78
n-propylbenzene
Concen: 1.680 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.006 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Tgt Ion: 91 Resp: 10061
Ion Ratio Lower Upper
91 100
120 23.0 11.3 33.9

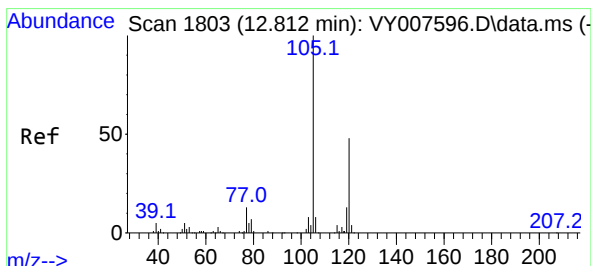
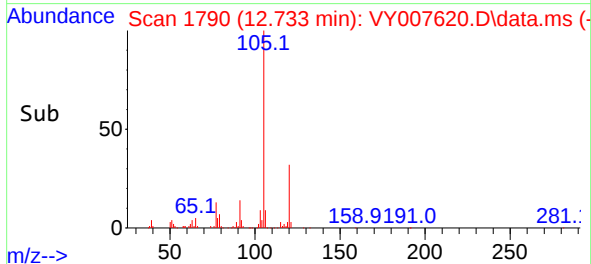
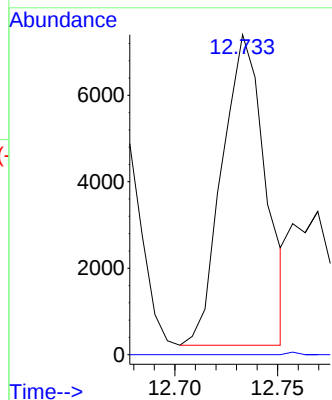
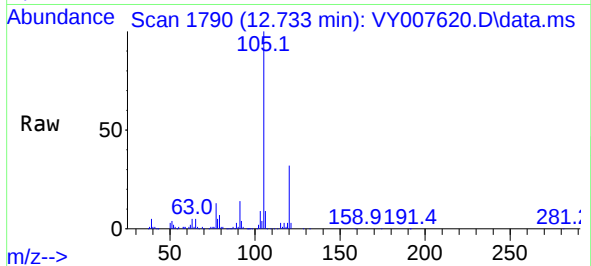




#79
2-Chlorotoluene
Concen: 3.171 ug/l
RT: 12.733 min Scan# 11
Delta R.T. -0.018 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

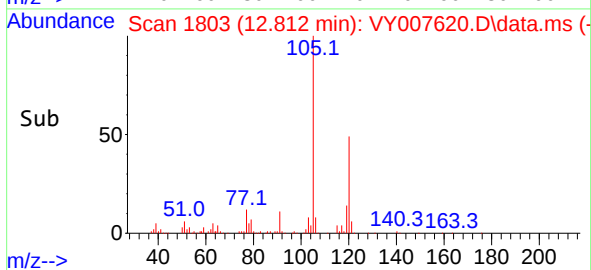
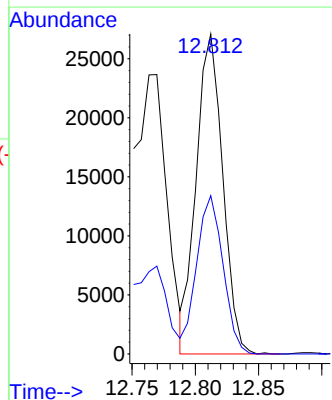
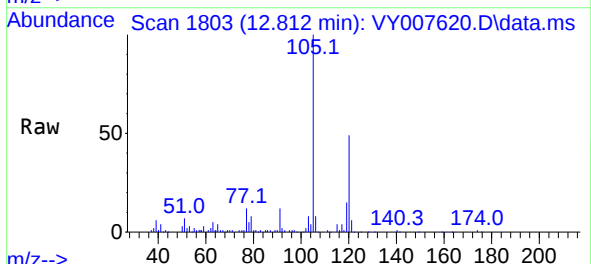
Instrument :
MSVOA_Y
ClientSampleId :

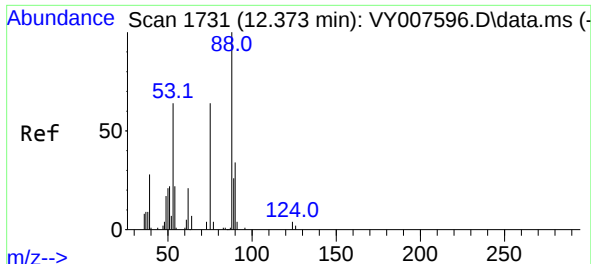
Tgt Ion: 91 Resp: 10571
Ion Ratio Lower Upper
91 100
126 0.0 16.9 50.6#



#80
1,3,5-Trimethylbenzene
Concen: 8.969 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

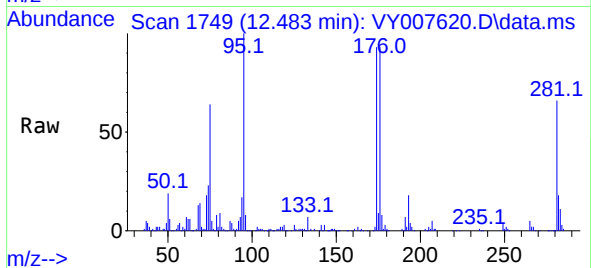
Tgt Ion: 105 Resp: 39563
Ion Ratio Lower Upper
105 100
120 49.2 24.4 73.4



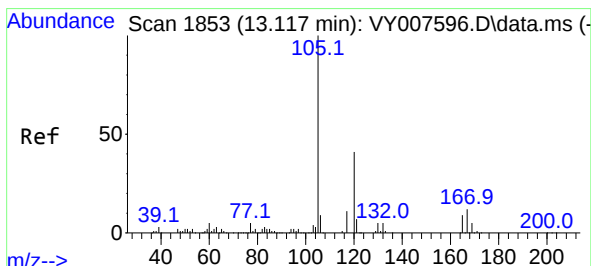
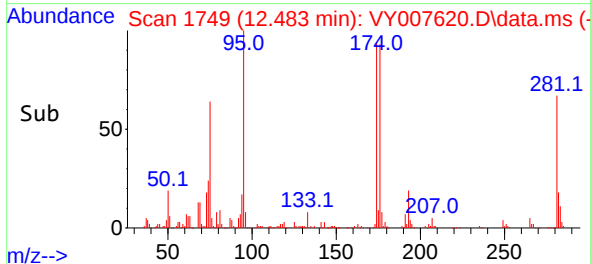
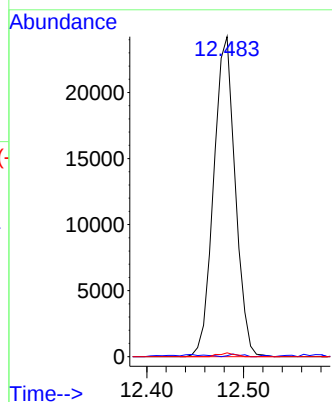


#81
trans-1,4-Dichloro-2-butene
Concen: 119.643 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.110 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Instrument :
MSVOA_Y
ClientSampleId :

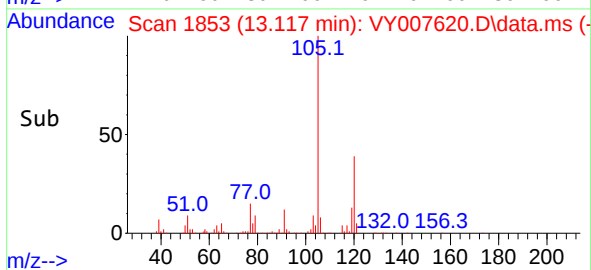
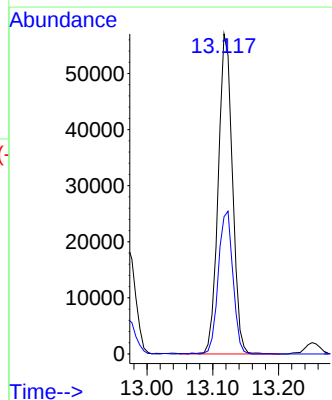
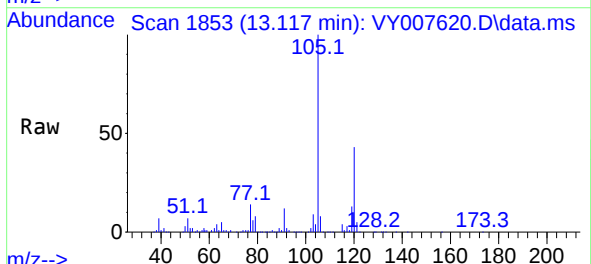


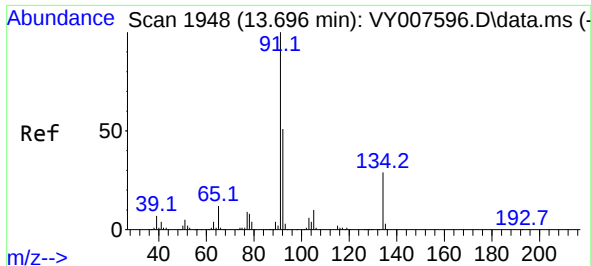
Tgt Ion: 75 Resp: 37461
Ion Ratio Lower Upper
75 100
53 0.5 85.3 127.9#
89 0.9 37.0 55.4#



#84
1,2,4-Trimethylbenzene
Concen: 19.872 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

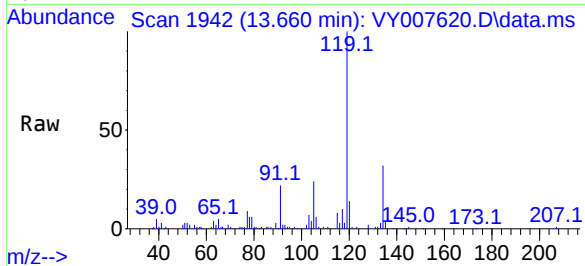
Tgt Ion: 105 Resp: 85913
Ion Ratio Lower Upper
105 100
120 45.7 22.3 66.9



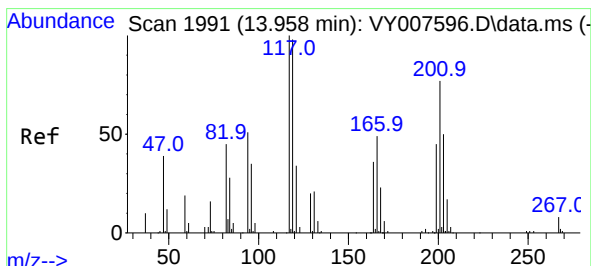
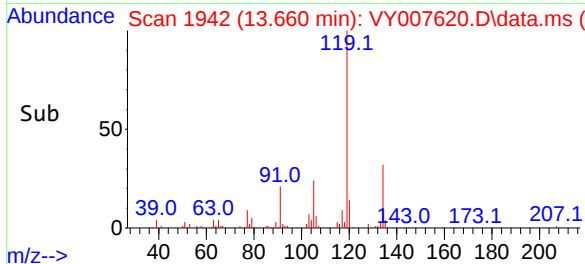
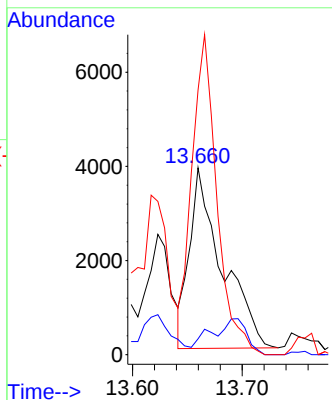


#89
n-Butylbenzene
Concen: 1.845 ug/l
RT: 13.660 min Scan# 1948
Delta R.T. -0.036 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

Instrument :
MSVOA_Y
ClientSampleId :

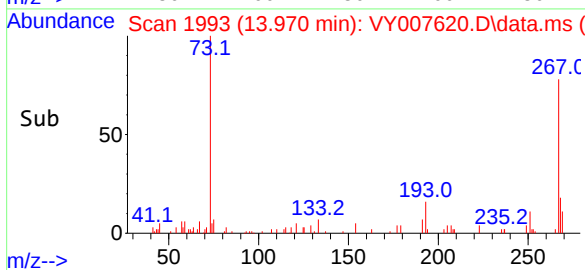
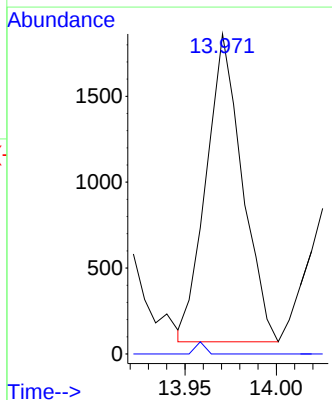
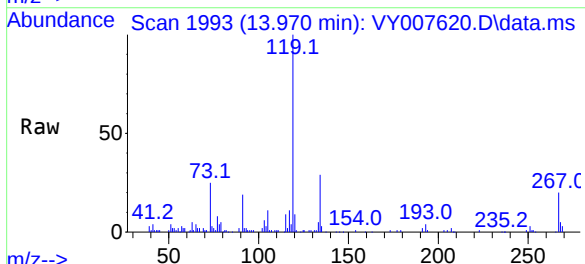


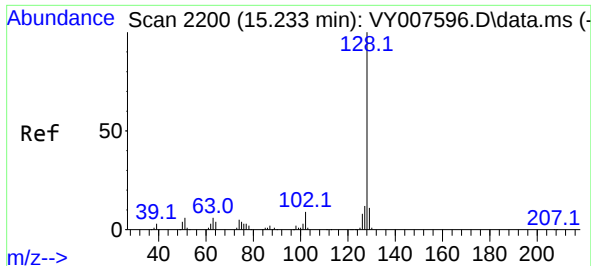
Tgt Ion: 91 Resp: 7950
Ion Ratio Lower Upper
91 100
92 0.0 26.3 78.9#
134 136.4 13.0 38.9#



#90
Hexachloroethane
Concen: 2.554 ug/l
RT: 13.970 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY007620.D
Acq: 24 Feb 2022 16:16

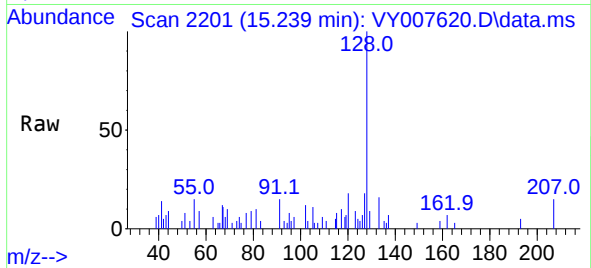
Tgt Ion: 117 Resp: 2464
Ion Ratio Lower Upper
117 100
201 1.1 43.0 128.8#





#95
 Naphthalene
 Concen: 1.054 ug/l
 RT: 15.239 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY007620.D
 Acq: 24 Feb 2022 16:16

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:128 Resp: 3599
 Ion Ratio Lower Upper
 128 100
 127 15.2 11.0 16.4
 129 14.2 8.4 12.6#

