

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120424\
 Data File : VY020509.D
 Acq On : 04 Dec 2024 12:09
 Operator : SY/MD
 Sample : P5072-03
 Misc : 5.30g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Dec 05 03:24:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 01:39:23 2024
 Response via : Initial Calibration

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

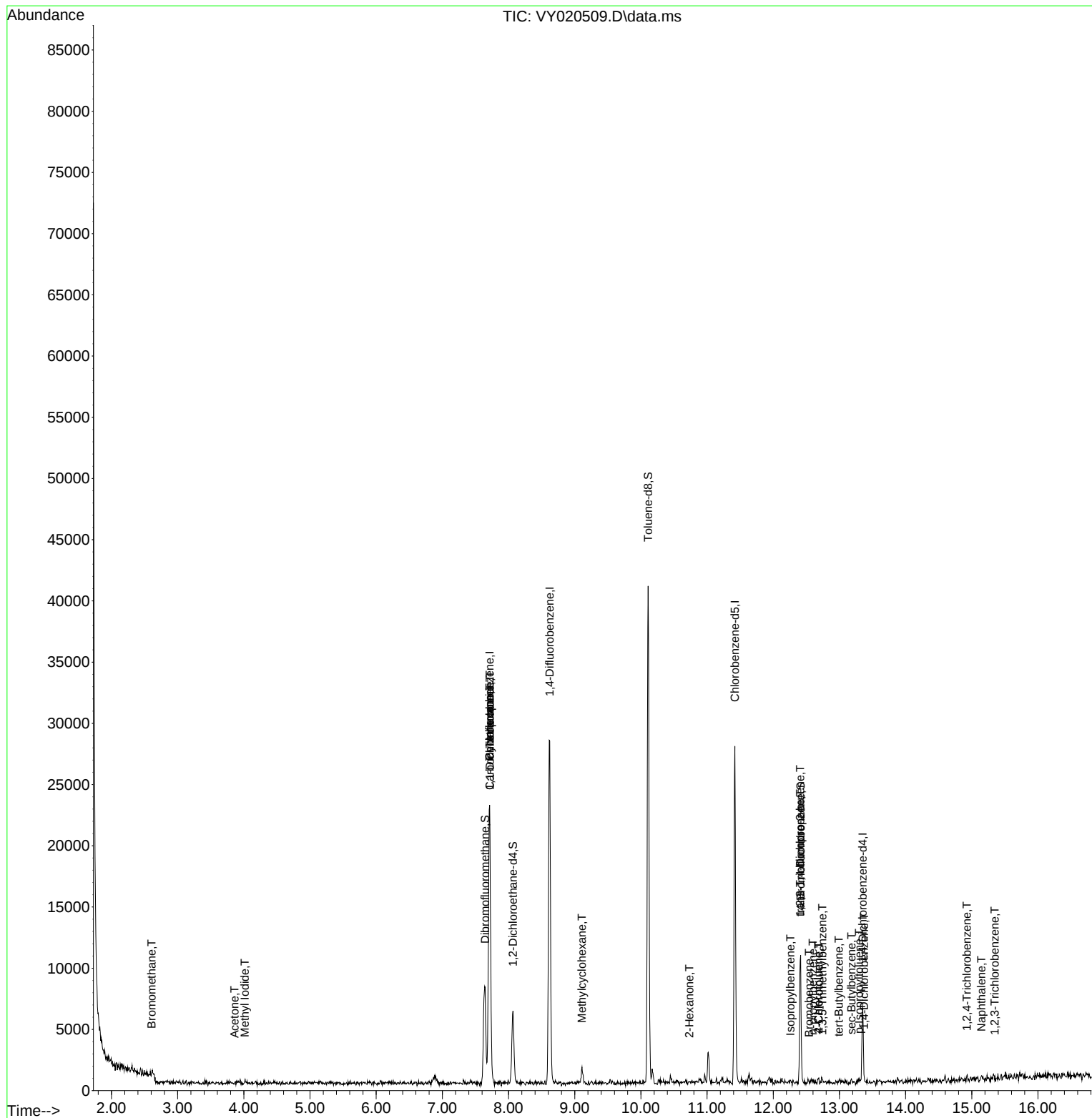
Internal Standards						
1) Pentafluorobenzene	7.713	168	17597	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	25871	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	14589	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	1722	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	4813	26.894	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	53.780%		
35) Dibromofluoromethane	7.646	113	6261	38.442	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	76.880%		
50) Toluene-d8	10.109	98	27052	43.619	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	87.240%		
62) 4-Bromofluorobenzene	12.414	95	3539	16.316	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	32.640%		
Target Compounds						Qvalue
5) Bromomethane	2.604	94	178	1.712	ug/l #	79
10) Methyl Iodide	4.013	142	252	1.161	ug/l #	76
16) Acetone	3.860	43	60	1.348	ug/l #	43
31) Cyclohexane	7.713	56	568	1.611	ug/l #	9
36) 1,1-Dichloropropene	7.719	75	1571	5.712	ug/l #	48
38) Carbon Tetrachloride	7.719	117	1667	5.078	ug/l #	11
39) Methylcyclohexane	9.109	83	630	1.846	ug/l	87
59) 2-Hexanone	10.731	43	96	1.225	ug/l #	25
73) Isopropylbenzene	12.261	105	179	1.074	ug/l #	50
76) 1,2,3-Trichloropropane	12.408	75	1953	111.334	ug/l #	100
77) Bromobenzene	12.542	156	43	1.246	ug/l #	8
78) n-propylbenzene	12.597	91	232	1.176	ug/l #	54
79) 2-Chlorotoluene	12.682	91	212	1.905	ug/l	86
80) 1,3,5-Trimethylbenzene	12.743	105	173	1.296	ug/l	81
81) trans-1,4-Dichloro-2-b...	12.408	75	1953	228.442	ug/l #	9
82) 4-Chlorotoluene	12.682	91	212	1.866	ug/l	86
83) tert-Butylbenzene	12.993	119	142	1.176	ug/l #	78
85) sec-Butylbenzene	13.182	105	185	1.069	ug/l #	57
86) p-Isopropyltoluene	13.298	119	199	1.392	ug/l #	73
88) 1,4-Dichlorobenzene	13.371	146	100	1.535	ug/l #	60
93) 1,2,4-Trichlorobenzene	14.925	180	163	5.137	ug/l #	80
95) Naphthalene	15.145	128	496	9.660	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.346	180	164	6.405	ug/l #	47

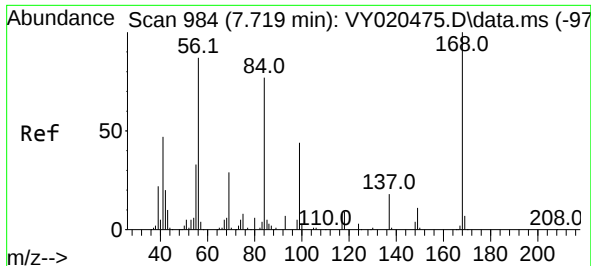
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 05 03:24:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 03 01:39:23 2024
Response via : Initial Calibration

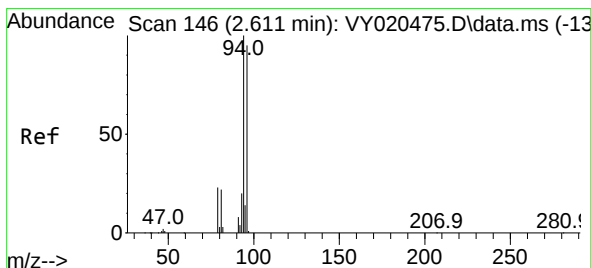
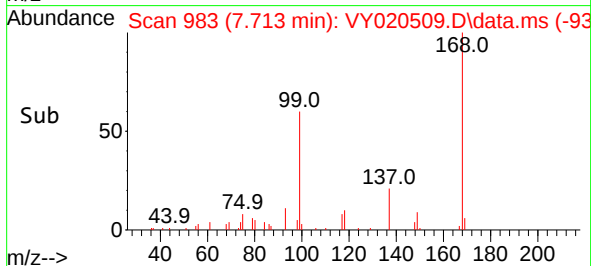
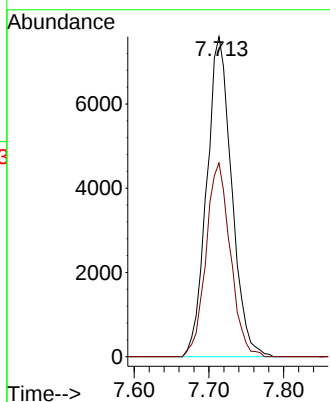
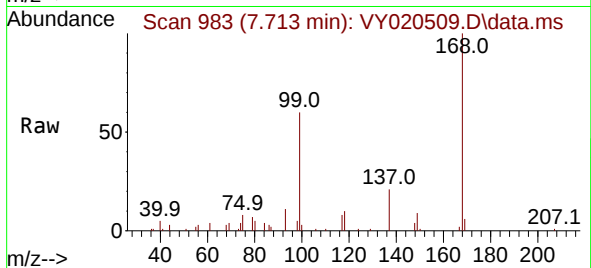




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

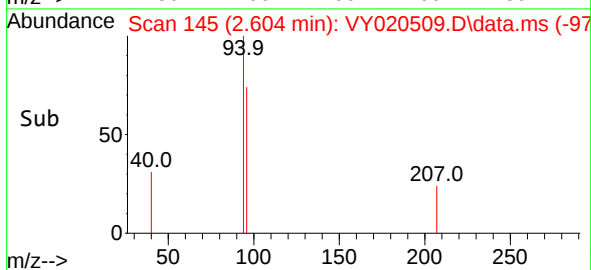
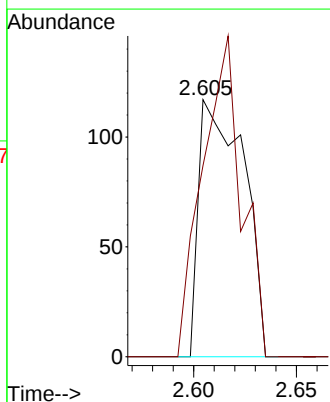
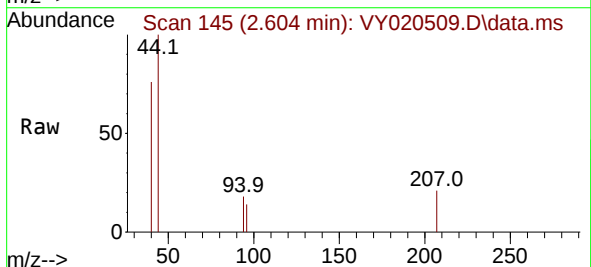
Instrument :
MSVOA_Y
ClientSampleId :

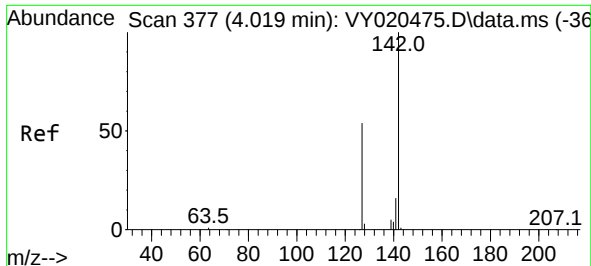
Tgt Ion:168 Resp: 17597
Ion Ratio Lower Upper
168 100
99 60.5 46.6 69.8



#5
Bromomethane
Concen: 1.712 ug/l
RT: 2.604 min Scan# 145
Delta R.T. -0.006 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

Tgt Ion: 94 Resp: 178
Ion Ratio Lower Upper
94 100
96 74.4 75.4 113.2#





#10

Methyl Iodide

Concen: 1.161 ug/l

RT: 4.013 min Scan# 31

Delta R.T. -0.006 min

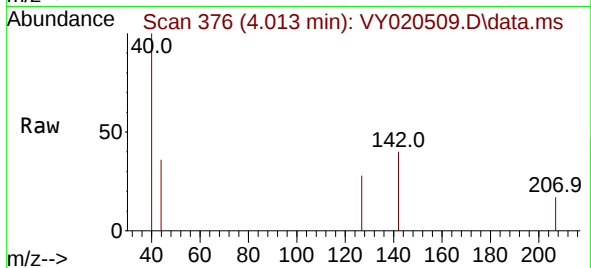
Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

Instrument :

MSVOA_Y

ClientSampleId :



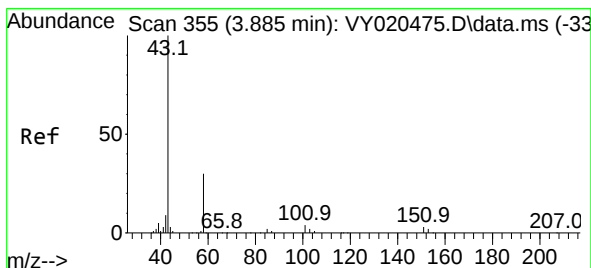
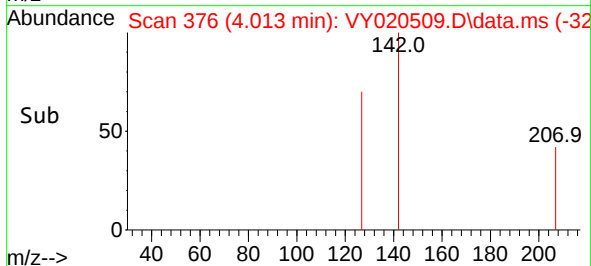
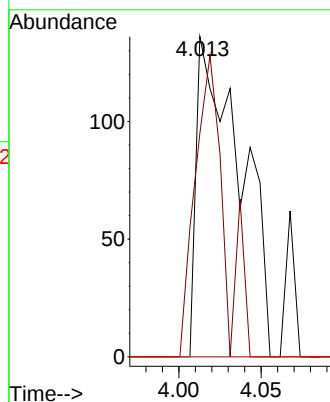
Tgt Ion:142 Resp: 252

Ion Ratio Lower Upper

142 100

127 62.7 38.9 58.3#

141 0.0 11.7 17.5#



#16

Acetone

Concen: 1.348 ug/l

RT: 3.860 min Scan# 351

Delta R.T. -0.024 min

Lab File: VY020509.D

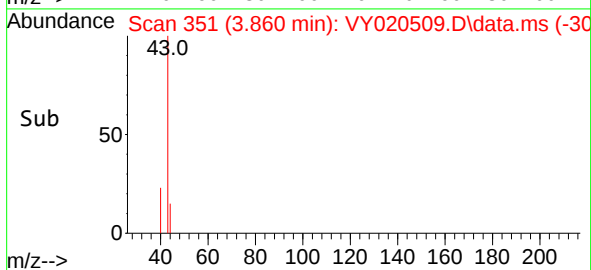
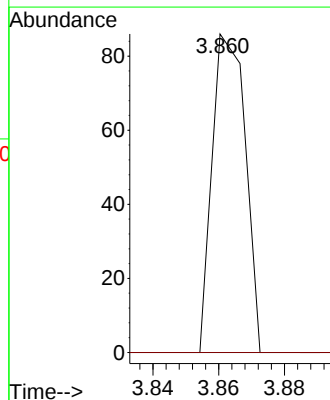
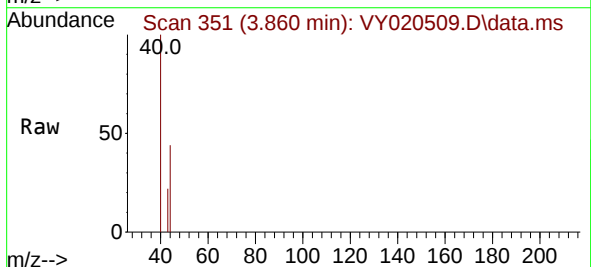
Acq: 04 Dec 2024 12:09

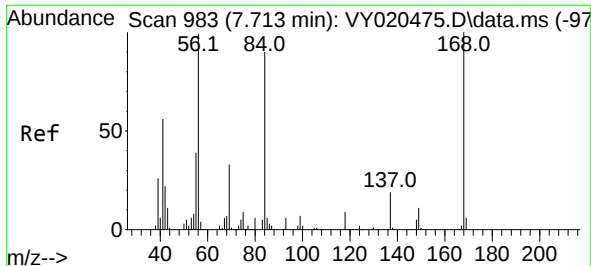
Tgt Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

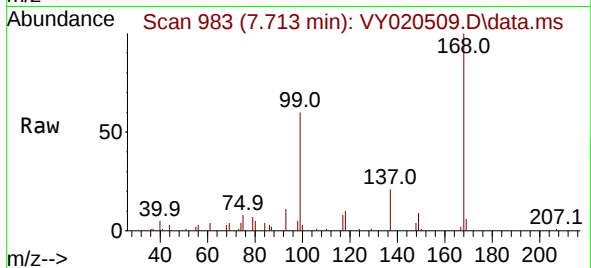
58 0.0 25.7 38.5#



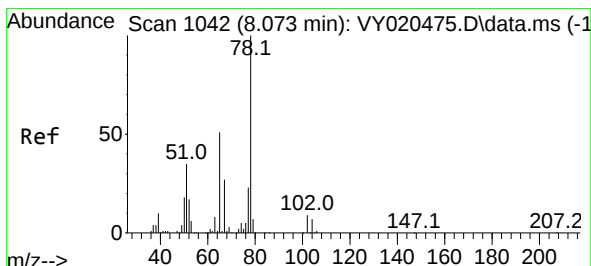
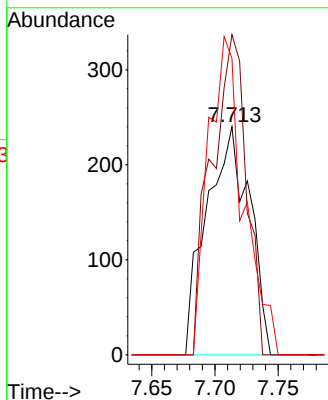
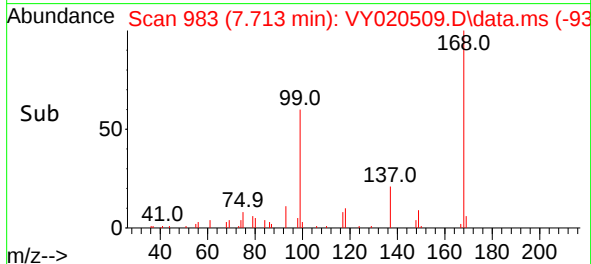


#31
Cyclohexane
Concen: 1.611 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

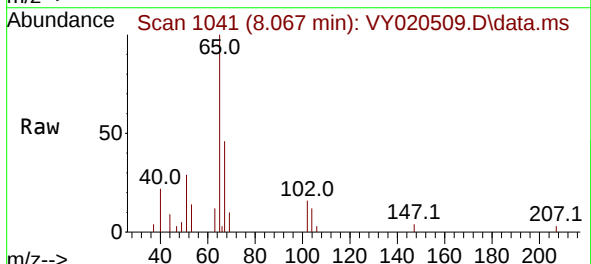
Instrument :
MSVOA_Y
ClientSampleId :



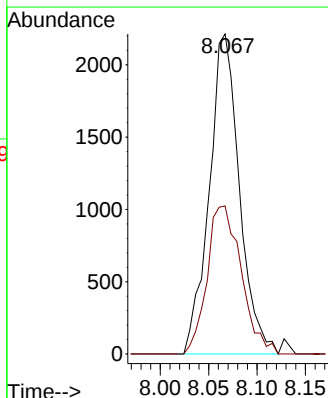
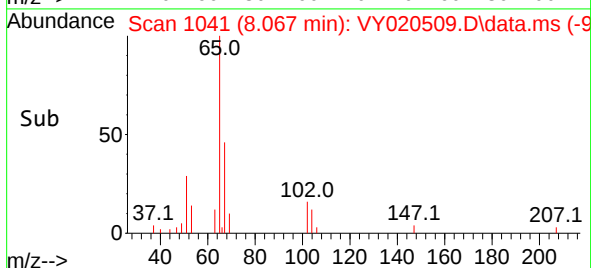
Tgt Ion: 56 Resp: 568
Ion Ratio Lower Upper
56 100
69 140.4 25.3 37.9#
84 130.0 66.9 100.3#

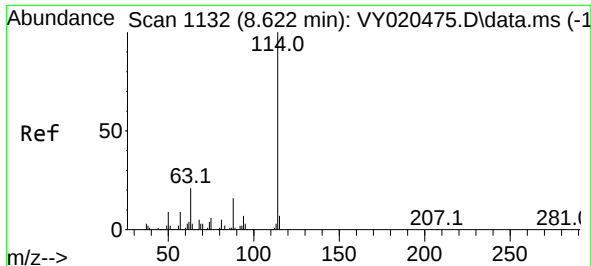


#33
1,2-Dichloroethane-d4
Concen: 26.894 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.006 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09



Tgt Ion: 65 Resp: 4813
Ion Ratio Lower Upper
65 100
67 52.3 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. -0.000 min

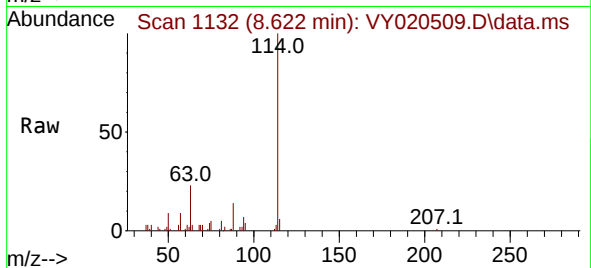
Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

Instrument :

MSVOA_Y

ClientSampleId :



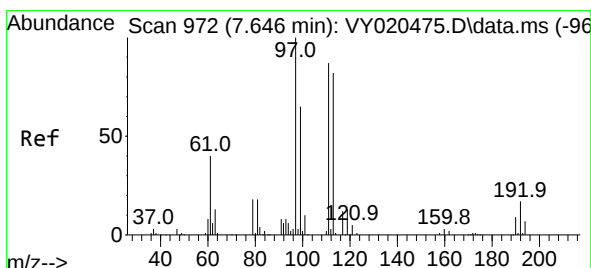
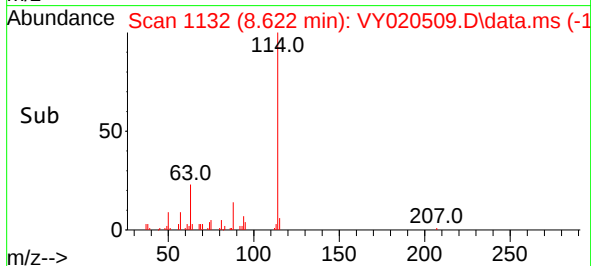
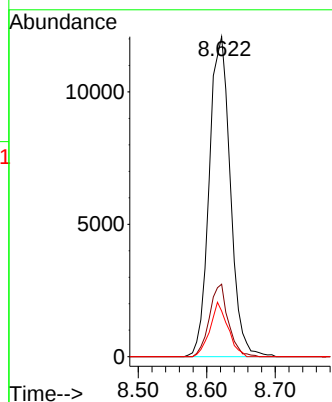
Tgt Ion:114 Resp: 25871

Ion Ratio Lower Upper

114 100

63 22.7 0.0 44.8

88 14.3 0.0 32.0



#35

Dibromofluoromethane

Concen: 38.442 ug/l

RT: 7.646 min Scan# 972

Delta R.T. -0.000 min

Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

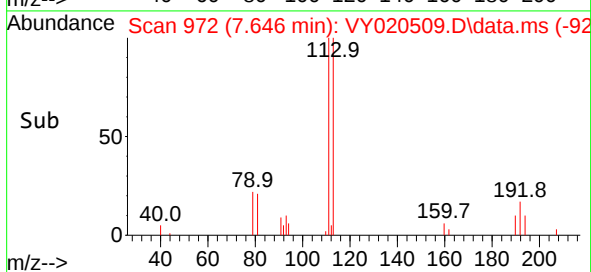
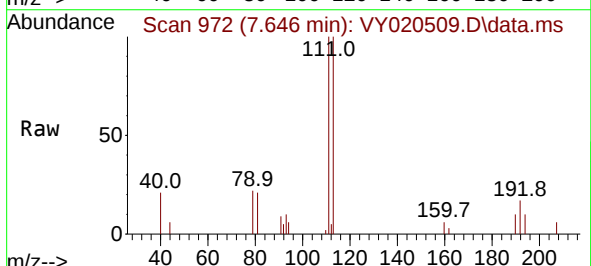
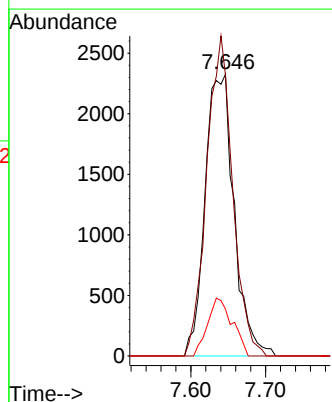
Tgt Ion:113 Resp: 6261

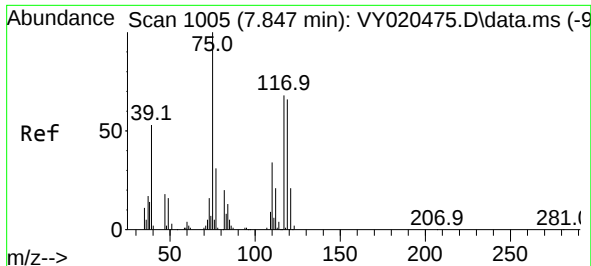
Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

192 17.6 15.1 22.7





#36

1,1-Dichloropropene

Concen: 5.712 ug/l

RT: 7.719 min Scan# 984

Delta R.T. -0.128 min

Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

Instrument :

MSVOA_Y

ClientSampleId :

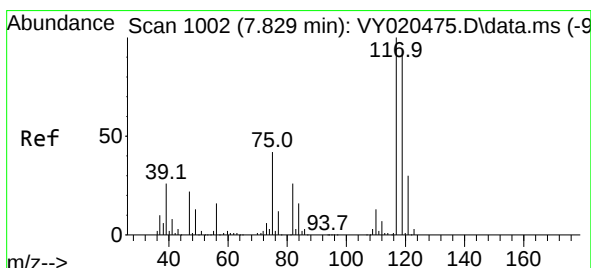
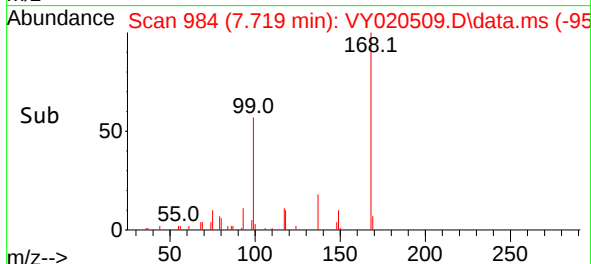
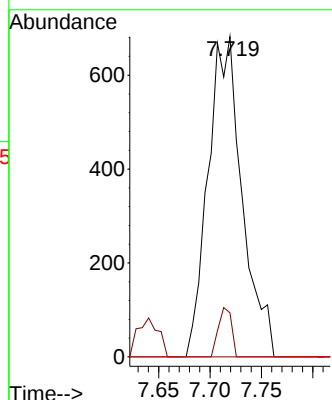
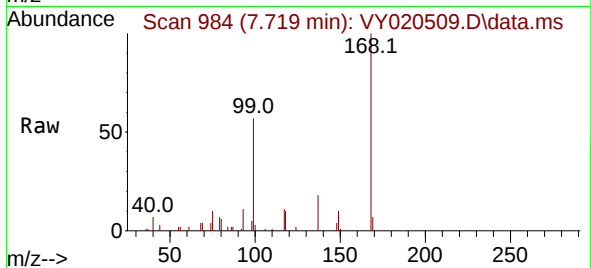
Tgt Ion: 75 Resp: 1571

Ion Ratio Lower Upper

75 100

110 5.9 16.7 50.0#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.078 ug/l

RT: 7.719 min Scan# 984

Delta R.T. -0.110 min

Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

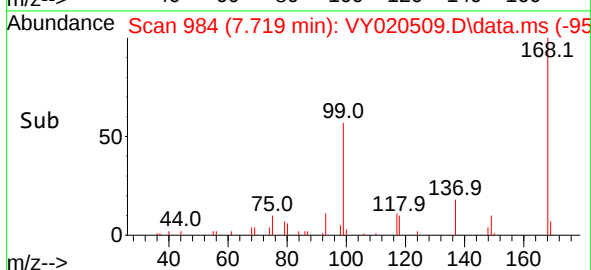
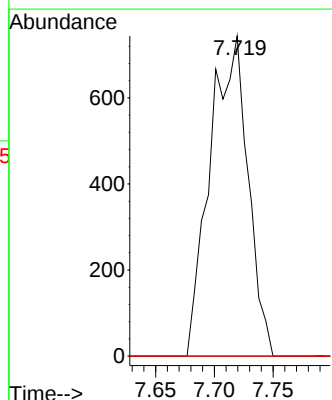
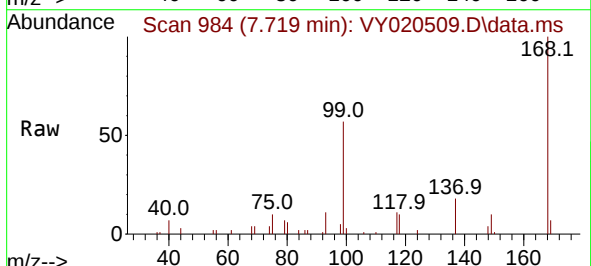
Tgt Ion: 117 Resp: 1667

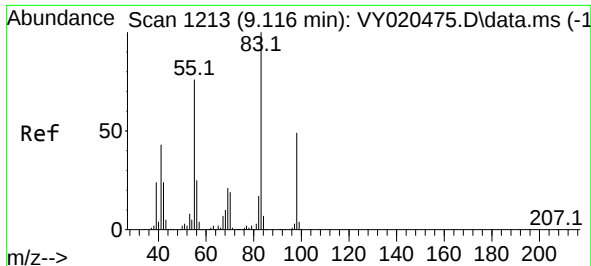
Ion Ratio Lower Upper

117 100

119 0.0 77.8 116.6#

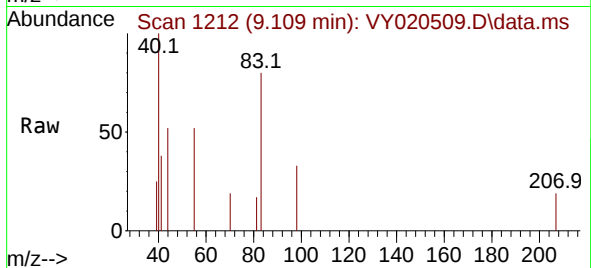
121 0.0 24.6 37.0#



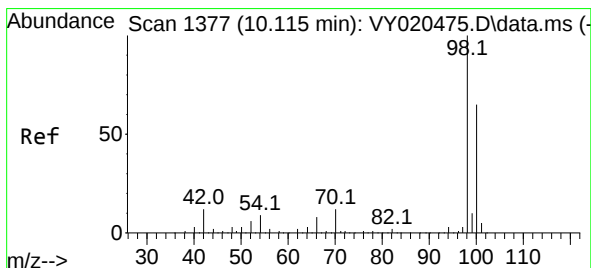
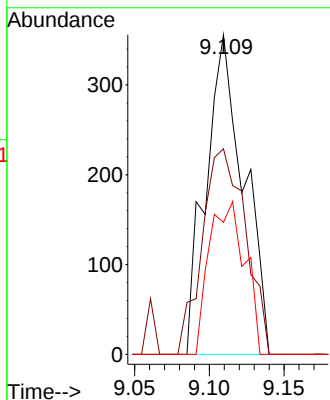
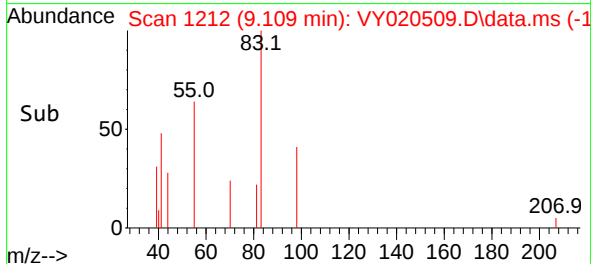


#39
Methylcyclohexane
Concen: 1.846 ug/l
RT: 9.109 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

Instrument :
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ClientSampleId :

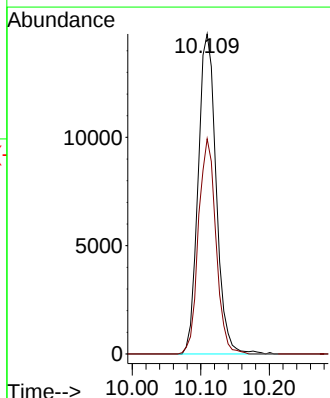
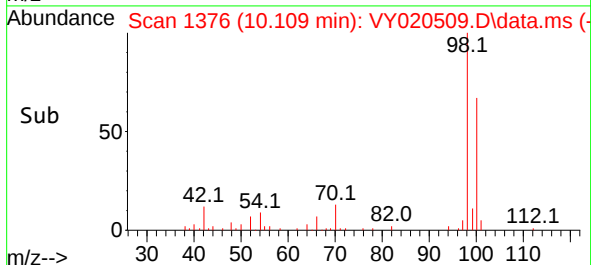
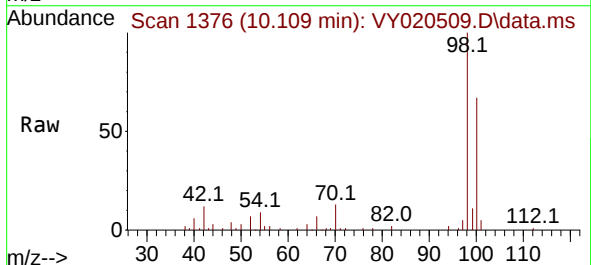


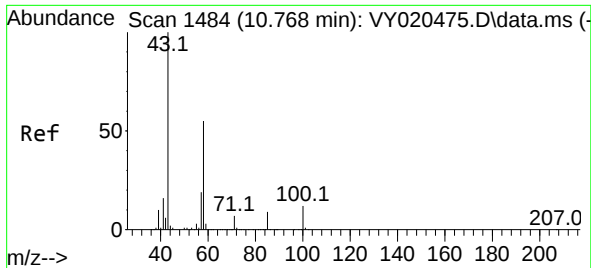
Tgt Ion: 83	Resp: 630
Ion Ratio	Lower Upper
83 100	
55 64.3	62.6 93.8
98 41.3	37.0 55.4



#50
Toluene-d8
Concen: 43.619 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

Tgt Ion: 98	Resp: 27052
Ion Ratio	Lower Upper
98 100	
100 65.1	51.3 76.9

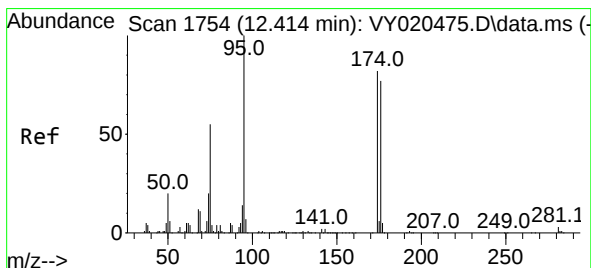
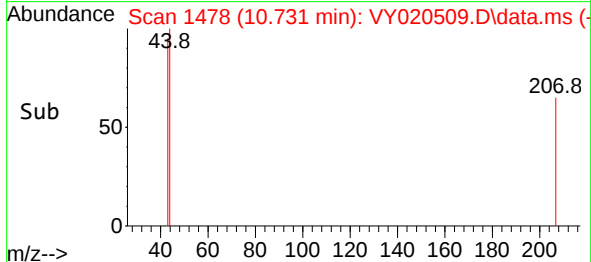
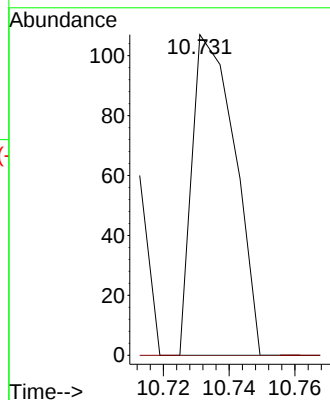
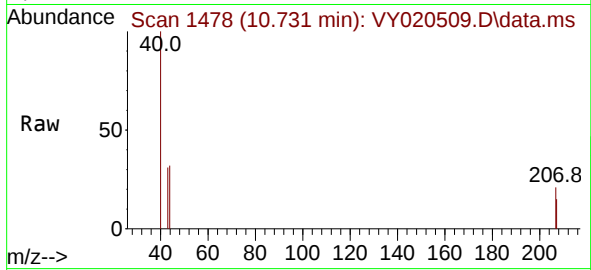




#59
2-Hexanone
Concen: 1.225 ug/l
RT: 10.731 min Scan# 1484
Delta R.T. -0.037 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

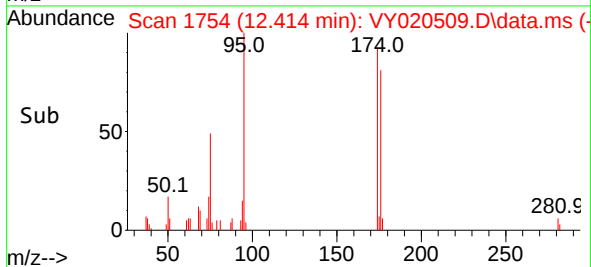
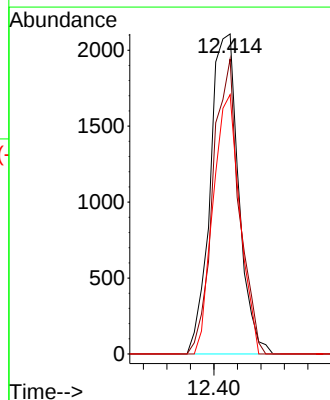
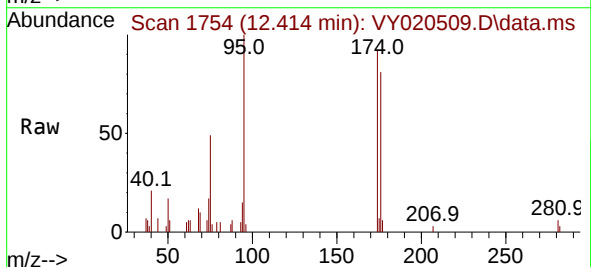
Instrument :
MSVOA_Y
ClientSampleId :

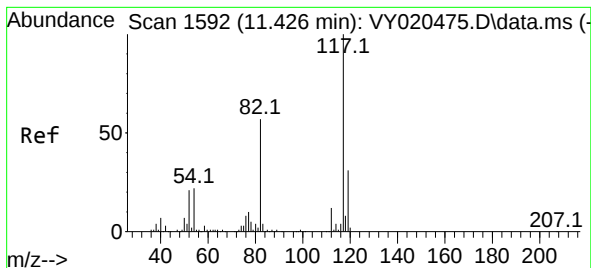
Tgt Ion: 43 Resp: 96
Ion Ratio Lower Upper
43 100
58 0.0 26.4 79.2#



#62
4-Bromofluorobenzene
Concen: 16.316 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

Tgt Ion: 95 Resp: 3539
Ion Ratio Lower Upper
95 100
174 85.2 0.0 156.8
176 76.5 0.0 152.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

Instrument :

MSVOA_Y

ClientSampleId :

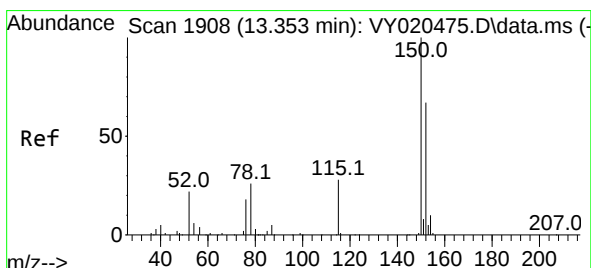
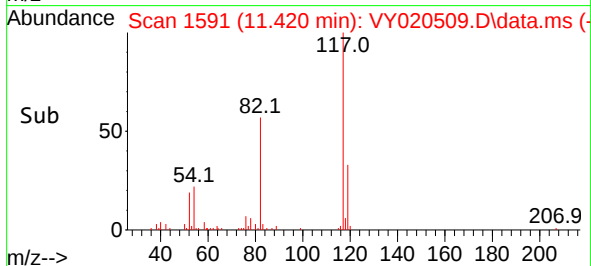
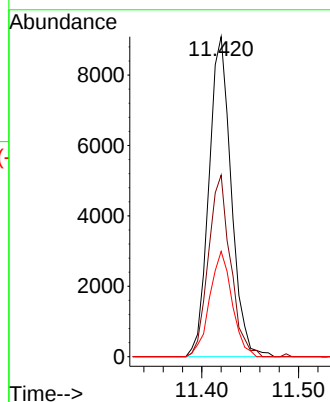
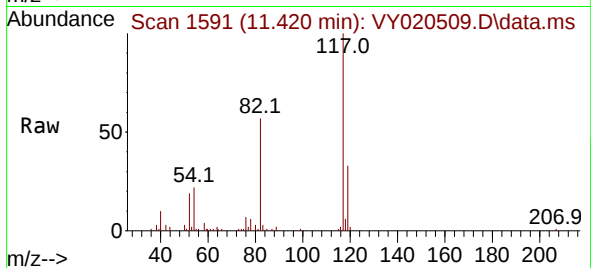
Tgt Ion:117 Resp: 14589

Ion Ratio Lower Upper

117 100

82 56.7 48.2 72.4

119 32.9 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

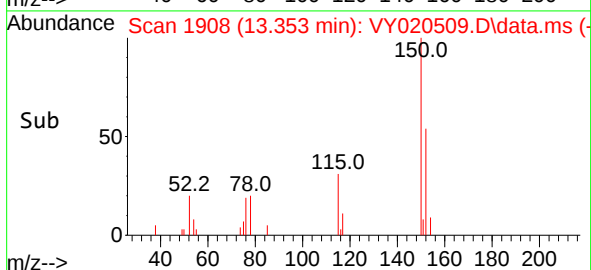
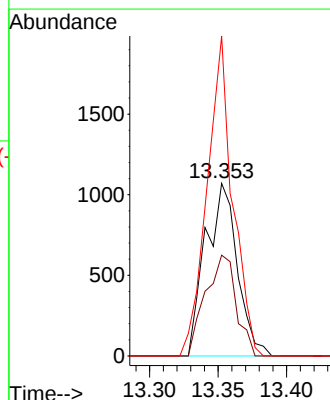
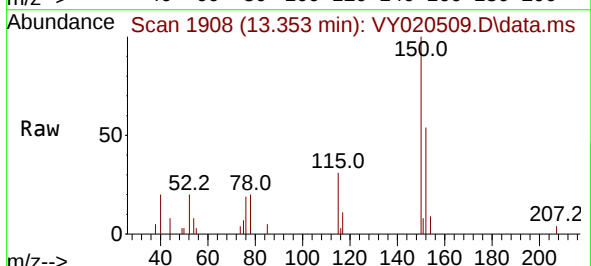
Tgt Ion:152 Resp: 1722

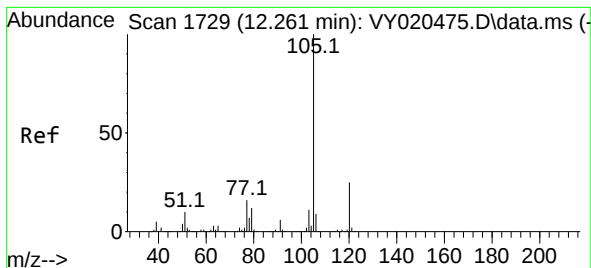
Ion Ratio Lower Upper

152 100

115 56.3 30.0 90.0

150 149.9 0.0 348.2





#73

Isopropylbenzene

Concen: 1.074 ug/l

RT: 12.261 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

Instrument :

MSVOA_Y

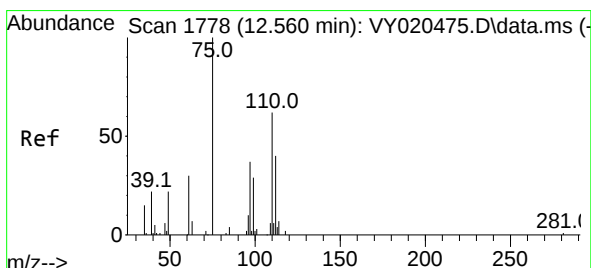
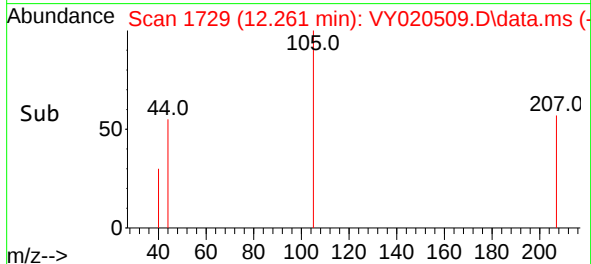
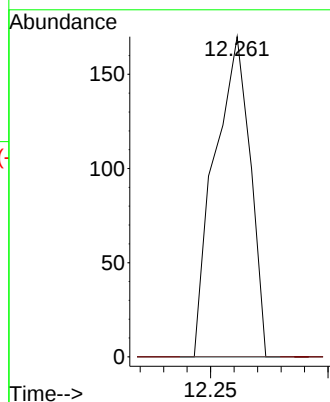
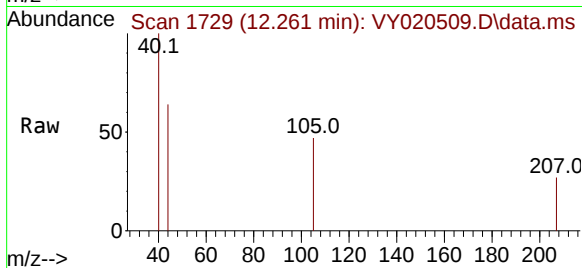
ClientSampleId :

Tgt Ion:105 Resp: 179

Ion Ratio Lower Upper

105 100

120 0.0 12.7 38.1#



#76

1,2,3-Trichloropropane

Concen: 111.334 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY020509.D

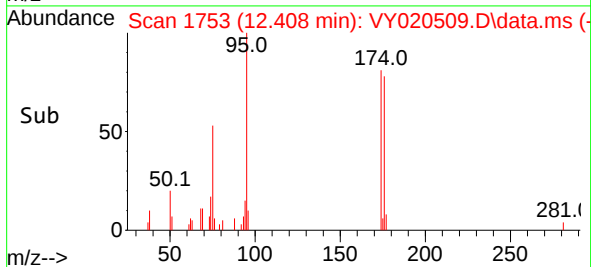
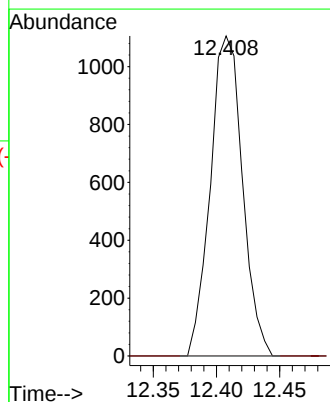
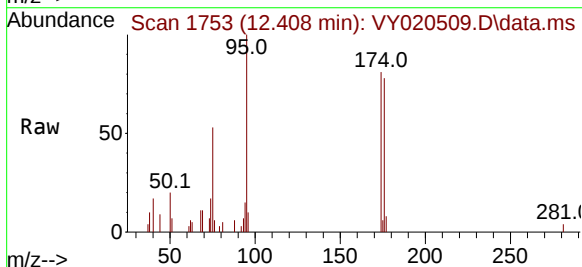
Acq: 04 Dec 2024 12:09

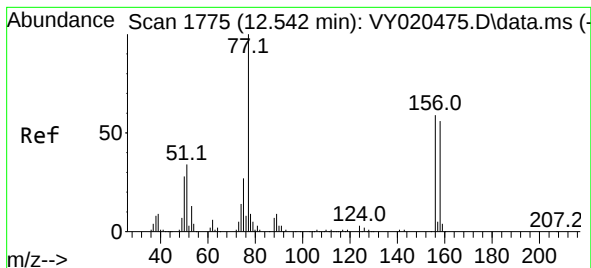
Tgt Ion: 75 Resp: 1953

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 1.246 ug/l

RT: 12.542 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VY020509.D

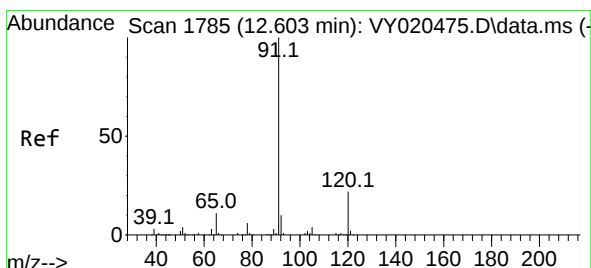
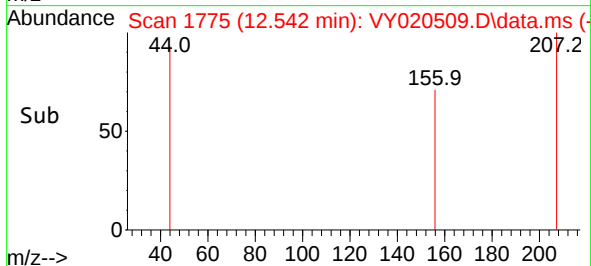
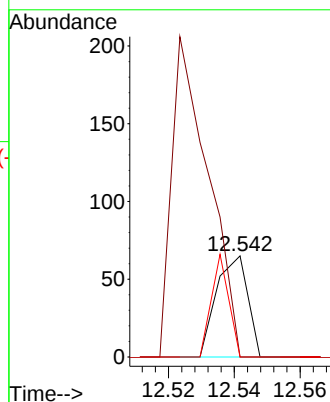
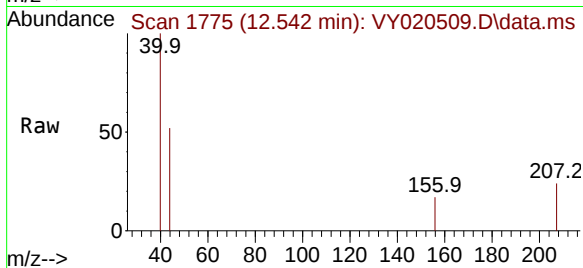
Acq: 04 Dec 2024 12:09

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	156	Resp:	43
Ion	Ratio	Lower	Upper
156	100		
77	369.8	97.2	291.6#
158	55.8	47.8	143.4



#78

n-propylbenzene

Concen: 1.176 ug/l

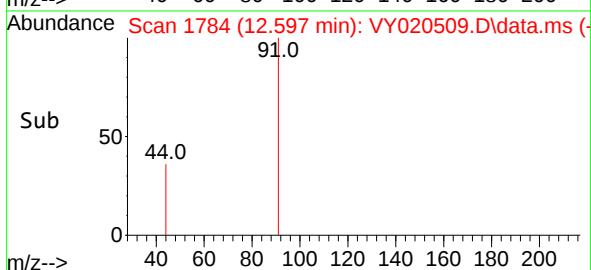
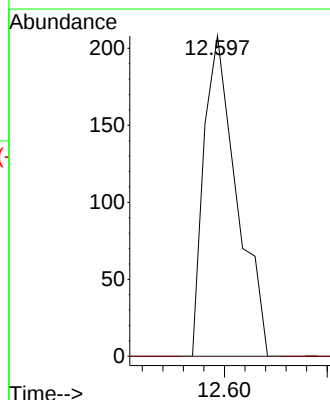
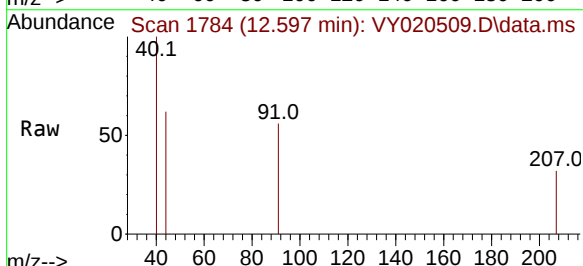
RT: 12.597 min Scan# 1784

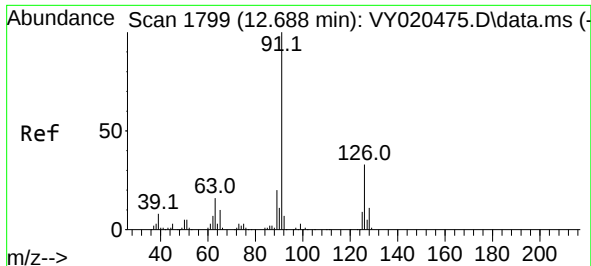
Delta R.T. -0.006 min

Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

Tgt Ion:	91	Resp:	232
Ion	Ratio	Lower	Upper
91	100		
120	0.0	10.9	32.6#

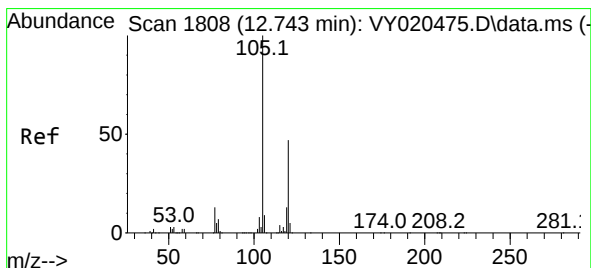
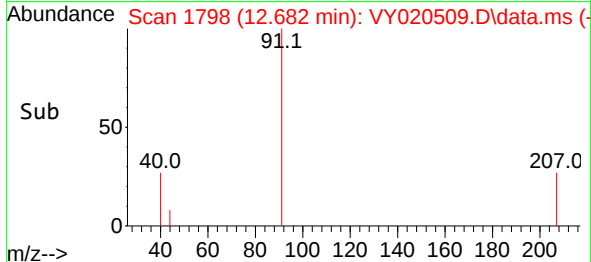
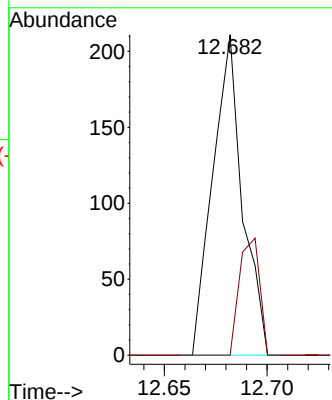
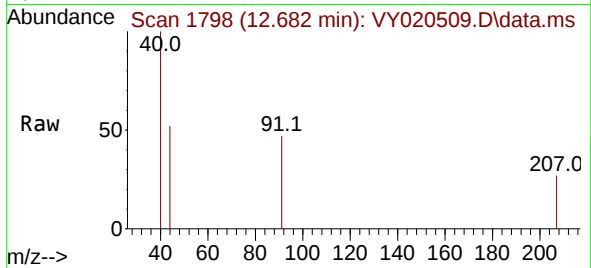




#79
2-Chlorotoluene
Concen: 1.905 ug/l
RT: 12.682 min Scan# 1799
Delta R.T. -0.006 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

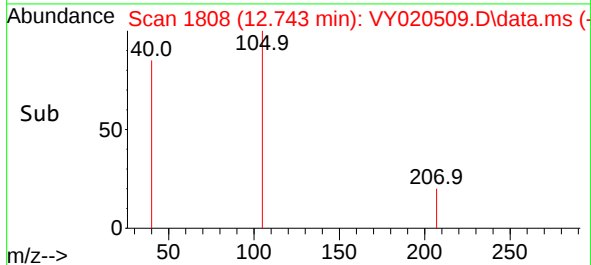
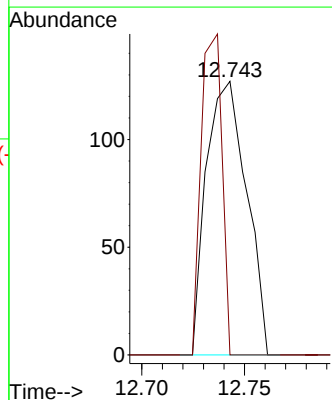
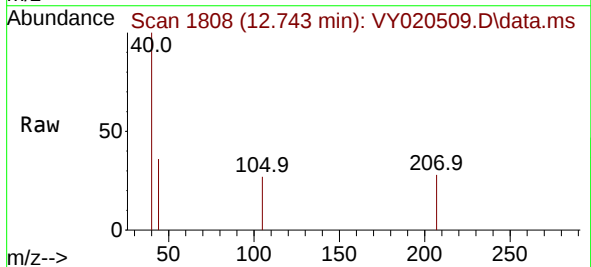
Instrument :
MSVOA_Y
ClientSampleId :

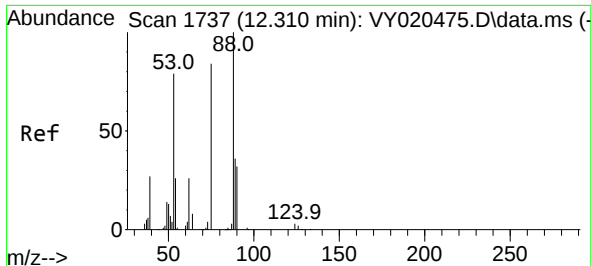
Tgt Ion: 91 Resp: 212
Ion Ratio Lower Upper
91 100
126 25.0 16.4 49.1



#80
1,3,5-Trimethylbenzene
Concen: 1.296 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

Tgt Ion: 105 Resp: 173
Ion Ratio Lower Upper
105 100
120 61.3 24.3 72.8

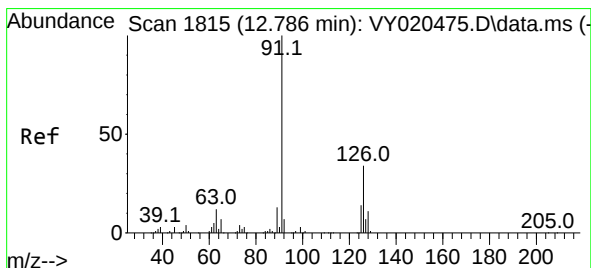
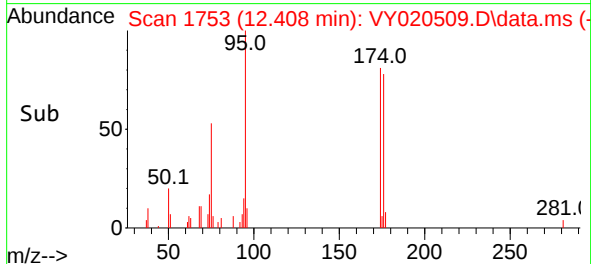
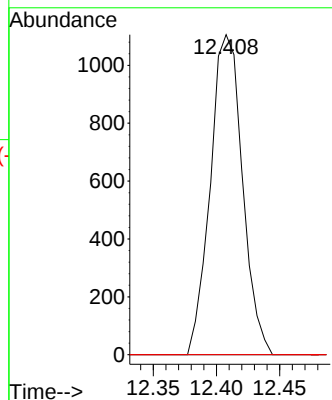
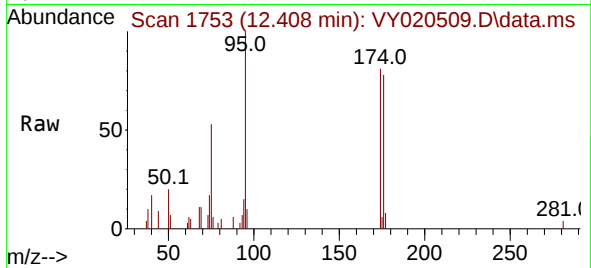




#81
trans-1,4-Dichloro-2-butene
Concen: 228.442 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.098 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

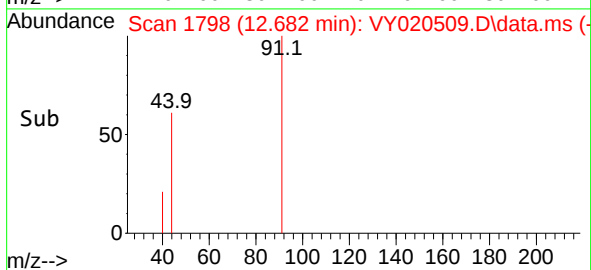
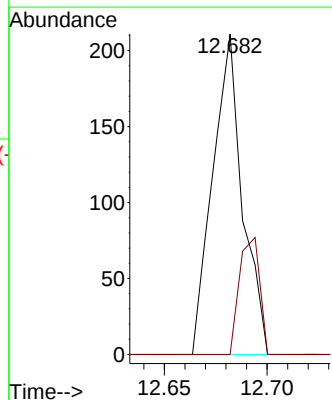
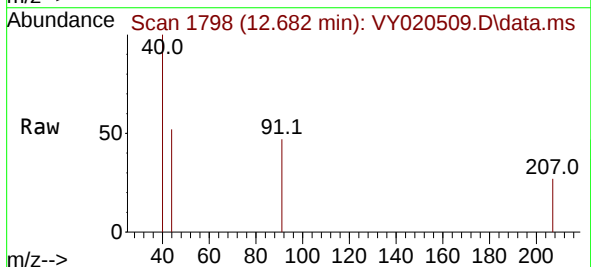
Instrument :
MSVOA_Y
ClientSampleId :

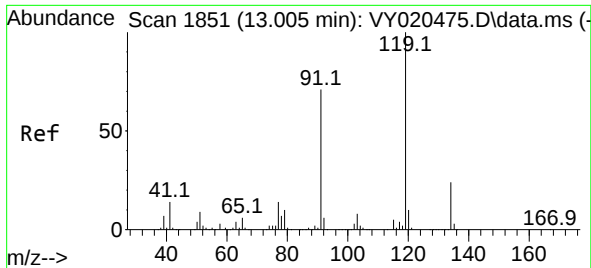
Tgt Ion: 75 Resp: 1953
Ion Ratio Lower Upper
75 100
53 0.0 81.1 121.7#
89 0.0 35.1 52.7#



#82
4-Chlorotoluene
Concen: 1.866 ug/l
RT: 12.682 min Scan# 1798
Delta R.T. -0.104 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

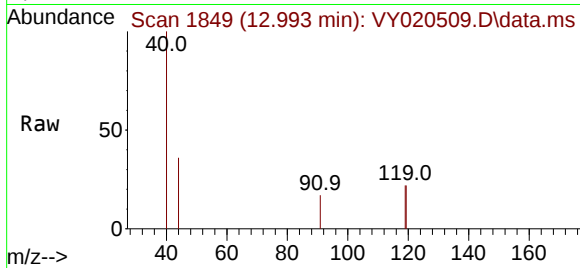
Tgt Ion: 91 Resp: 212
Ion Ratio Lower Upper
91 100
126 25.0 16.6 49.8



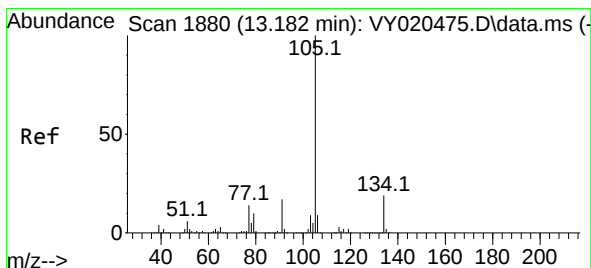
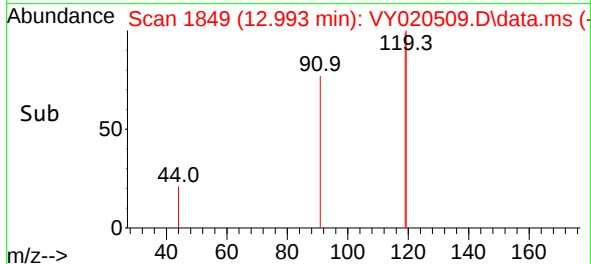
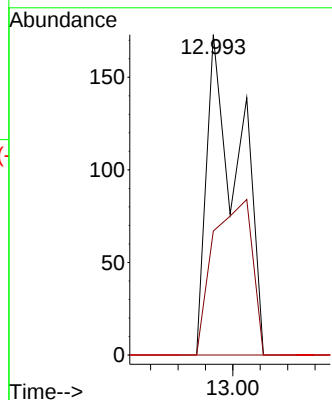


#83
tert-Butylbenzene
Concen: 1.176 ug/l
RT: 12.993 min Scan# 1849
Delta R.T. -0.012 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

Instrument :
MSVOA_Y
ClientSampleId :

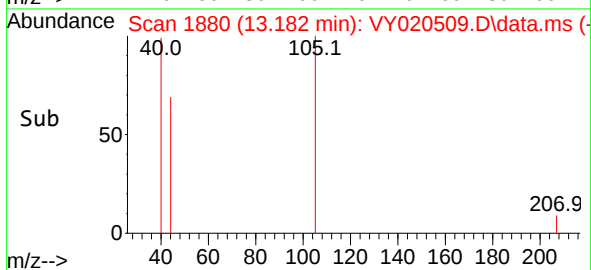
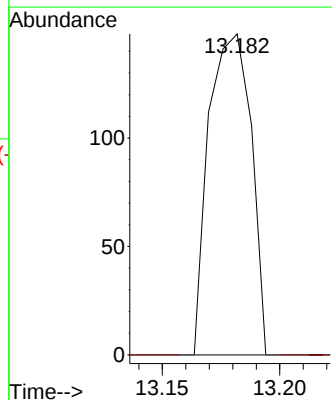
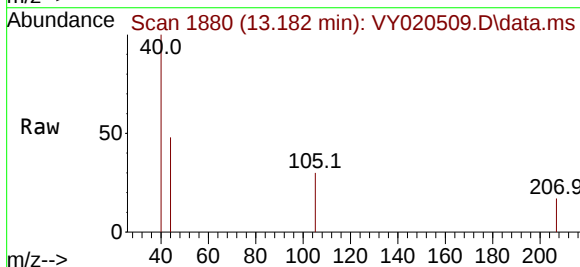


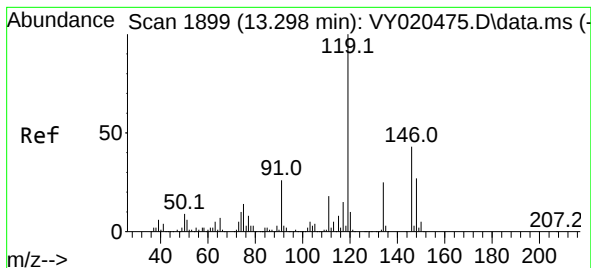
Tgt Ion:119 Resp: 142
Ion Ratio Lower Upper
119 100
91 58.5 33.3 99.9
134 0.0 13.0 38.9#



#85
sec-Butylbenzene
Concen: 1.069 ug/l
RT: 13.182 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VY020509.D
Acq: 04 Dec 2024 12:09

Tgt Ion:105 Resp: 185
Ion Ratio Lower Upper
105 100
134 0.0 9.8 29.5#

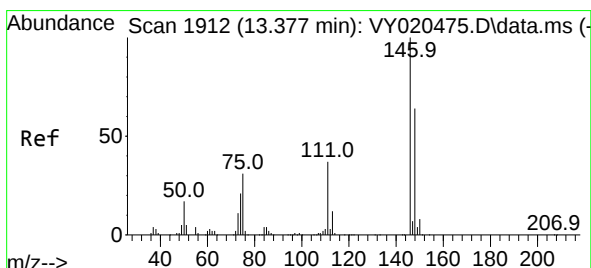
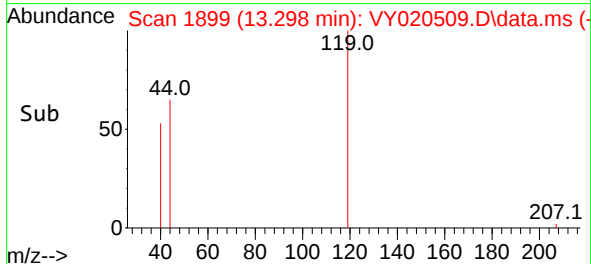
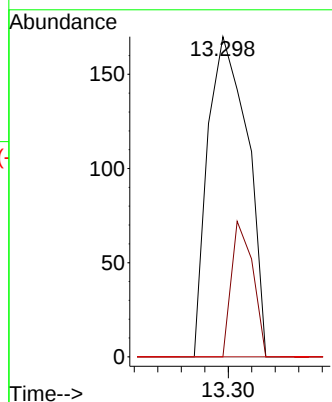
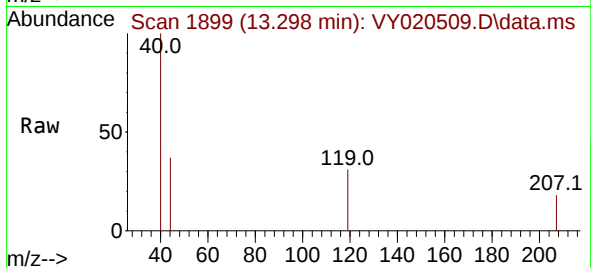




#86
 p-Isopropyltoluene
 Concen: 1.392 ug/l
 RT: 13.298 min Scan# 1199
 Delta R.T. -0.000 min
 Lab File: VY020509.D
 Acq: 04 Dec 2024 12:09

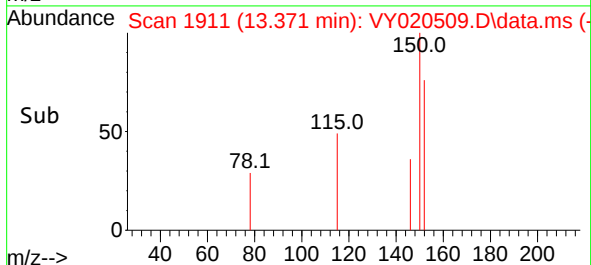
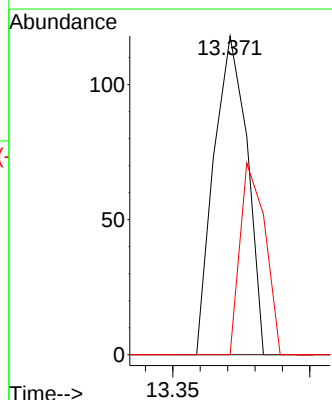
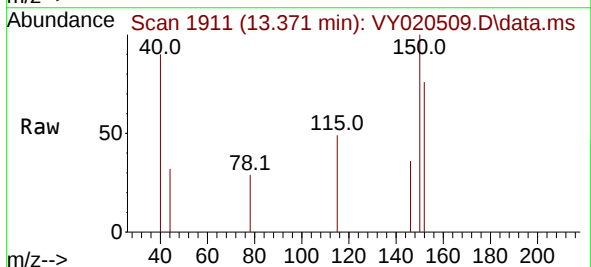
Instrument :
 MSVOA_Y
 ClientSampleId :

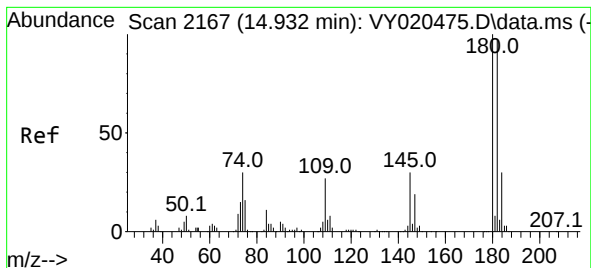
Tgt Ion:	119	Resp:	199
Ion	Ratio	Lower	Upper
119	100		
134	22.6	12.8	38.4
91	0.0	12.3	36.8#



#88
 1,4-Dichlorobenzene
 Concen: 1.535 ug/l
 RT: 13.371 min Scan# 1911
 Delta R.T. -0.006 min
 Lab File: VY020509.D
 Acq: 04 Dec 2024 12:09

Tgt Ion:	146	Resp:	100
Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.9	59.6#
148	45.0	32.0	96.2





#93

1,2,4-Trichlorobenzene

Concen: 5.137 ug/l

RT: 14.925 min Scan# 2166

Delta R.T. -0.006 min

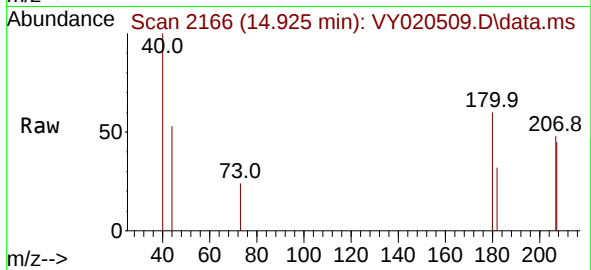
Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

Instrument :

MSVOA_Y

ClientSampleId :



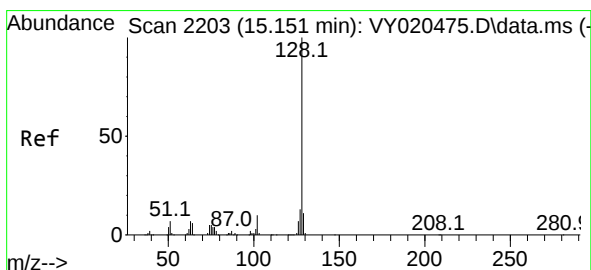
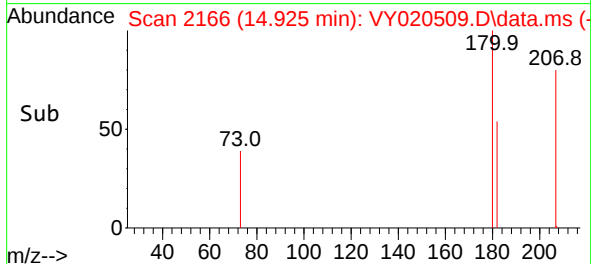
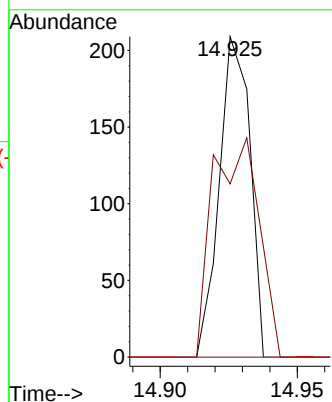
Tgt Ion:180 Resp: 163

Ion Ratio Lower Upper

180 100

182 103.1 47.6 142.8

145 0.0 15.8 47.3#



#95

Naphthalene

Concen: 9.660 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. -0.006 min

Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

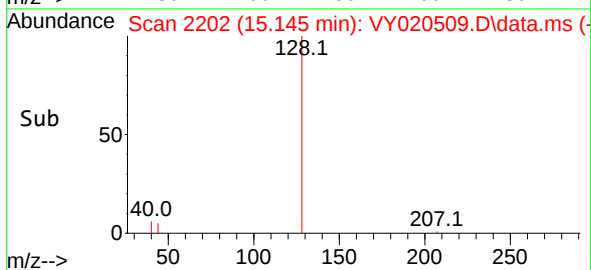
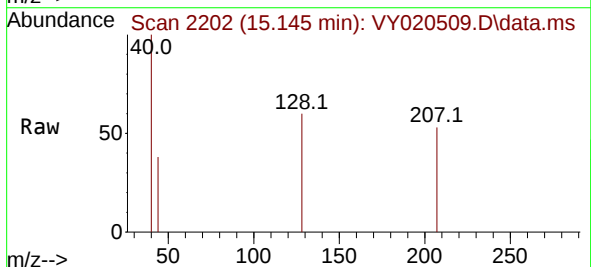
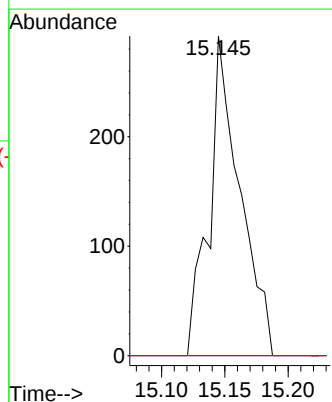
Tgt Ion:128 Resp: 496

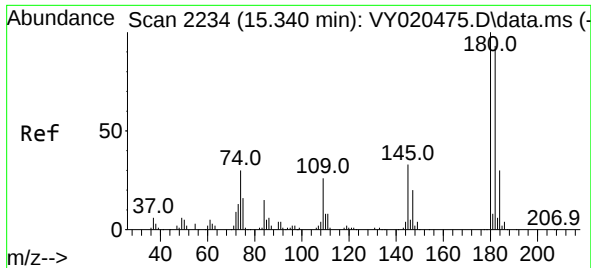
Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 13.0#





#96

1,2,3-Trichlorobenzene

Concen: 6.405 ug/l

RT: 15.346 min Scan# 21

Delta R.T. 0.006 min

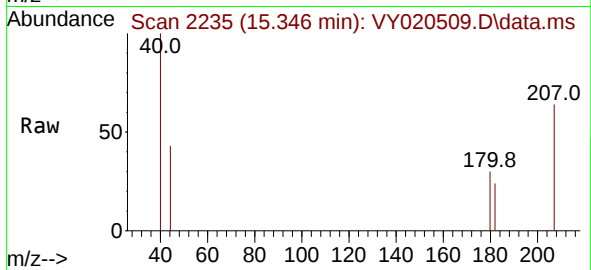
Lab File: VY020509.D

Acq: 04 Dec 2024 12:09

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:180 Resp: 164

Ion Ratio Lower Upper

180 100

182 144.5 47.4 142.3#

145 0.0 16.9 50.6#

