

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020623\
 Data File : VY012502.D
 Acq On : 06 Feb 2023 17:56
 Operator : KP/MD
 Sample : 01413-01RE
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 07 03:47:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020623S.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 07 03:42:26 2023
 Response via : Initial Calibration

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

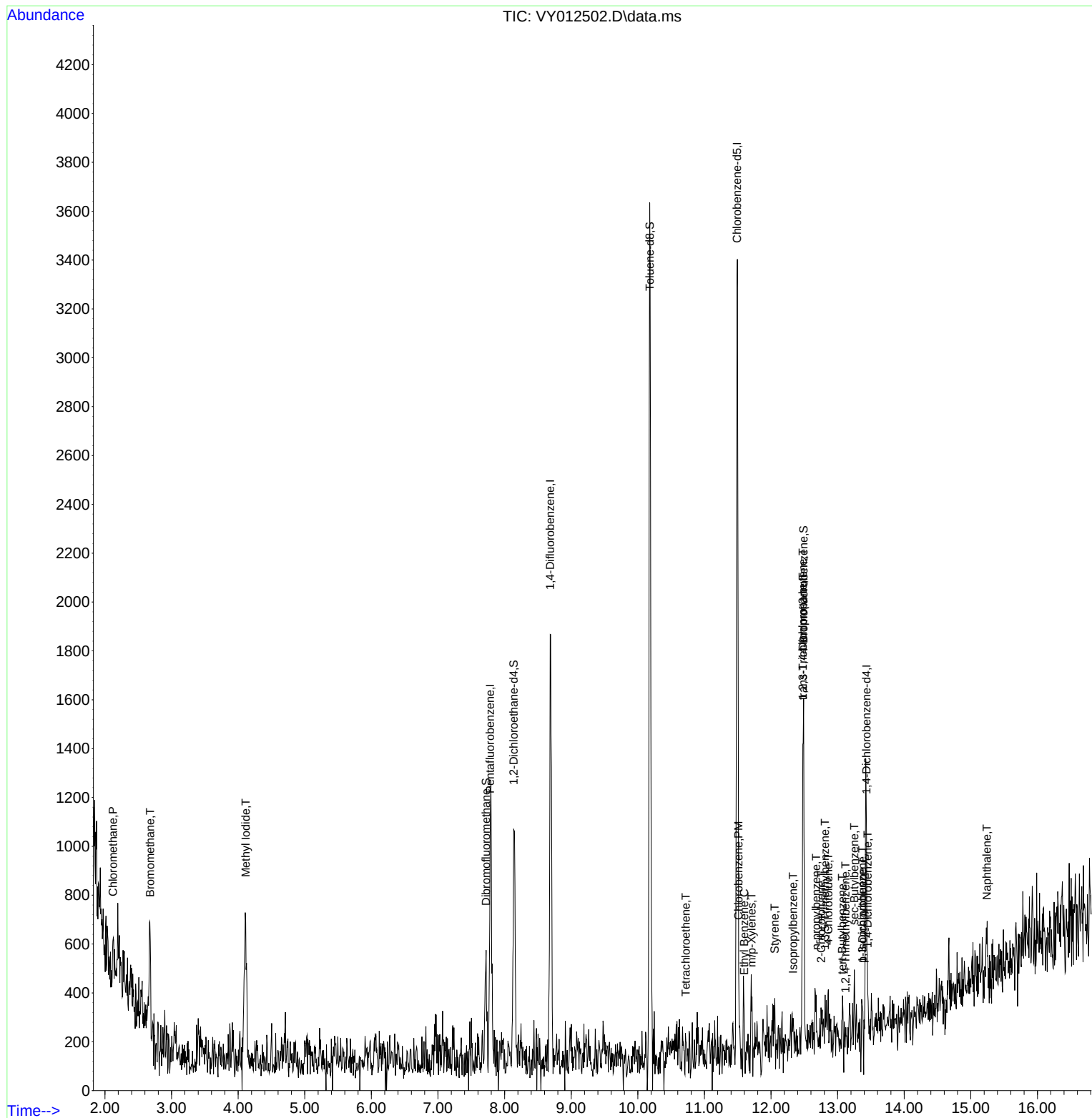
Internal Standards						
1) Pentafluorobenzene	7.782	168	1219	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.685	114	2226	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	2172	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	410	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	1006	66.505	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	133.000%
35) Dibromofluoromethane	7.721	113	354	22.546	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	45.100%#
50) Toluene-d8	10.178	98	2700	41.370	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	82.740%
62) 4-Bromofluorobenzene	12.489	95	563	25.667	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	51.340%
Target Compounds						
						Qvalue
3) Chloromethane	2.119	50	89	9.512	ug/l	# 41
5) Bromomethane	2.680	94	263	30.180	ug/l	85
10) Methyl Iodide	4.112	142	921	56.354	ug/l	# 89
20) Methylene Chloride	4.710	84	34	Below Cal	#	48
64) Tetrachloroethene	10.721	164	52	2.304	ug/l	# 1
65) Chlorobenzene	11.514	112	85	1.700	ug/l	# 43
67) Ethyl Benzene	11.599	91	173	1.950	ug/l	# 43
68) m/p-Xylenes	11.709	106	65	1.843	ug/l	79
70) Styrene	12.056	104	87	1.520	ug/l	# 26
73) Isopropylbenzene	12.330	105	143	4.403	ug/l	# 49
76) 1,2,3-Trichloropropane	12.477	75	275	60.080	ug/l	# 100
78) n-propylbenzene	12.678	91	247	6.541	ug/l	# 52
79) 2-Chlorotoluene	12.751	91	75	3.491	ug/l	# 40
80) 1,3,5-Trimethylbenzene	12.812	105	104	3.716	ug/l	# 29
81) trans-1,4-Dichloro-2-b...	12.477	75	275	132.998	ug/l	# 13
82) 4-Chlorotoluene	12.861	91	144	6.377	ug/l	# 41
83) tert-Butylbenzene	13.068	119	136	5.543	ug/l	# 66
84) 1,2,4-Trimethylbenzene	13.117	105	59	2.126	ug/l	# 31
85) sec-Butylbenzene	13.251	105	162	4.580	ug/l	# 56
86) p-Isopropyltoluene	13.373	119	53	1.717	ug/l	# 50
87) 1,3-Dichlorobenzene	13.373	146	89	5.614	ug/l	# 25
88) 1,4-Dichlorobenzene	13.452	146	79	4.989	ug/l	# 72
95) Naphthalene	15.238	128	273	14.903	ug/l	# 69

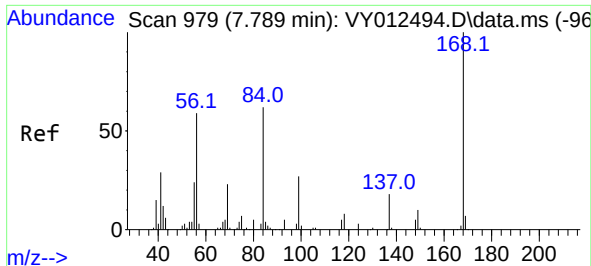
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

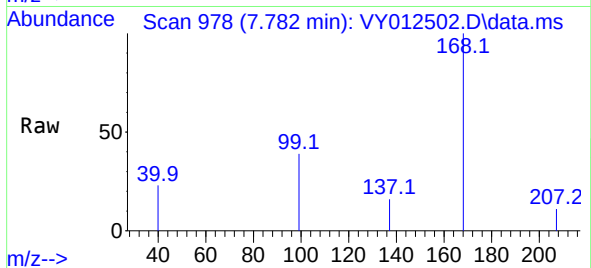
Quant Time: Feb 07 03:47:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020623S.M
Quant Title : SW846 8260
QLast Update : Tue Feb 07 03:42:26 2023
Response via : Initial Calibration



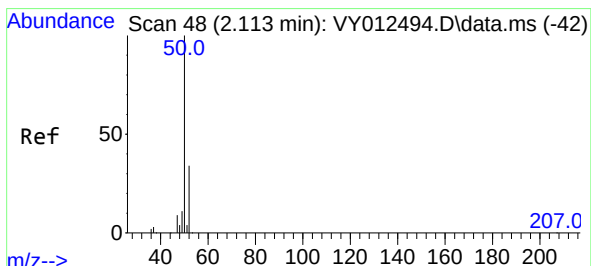
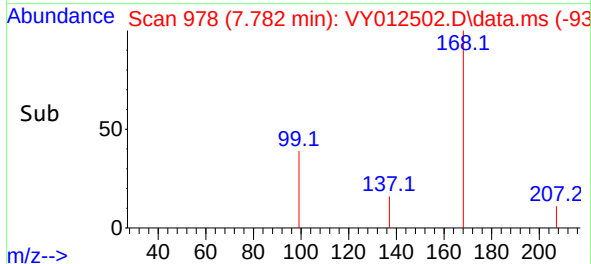
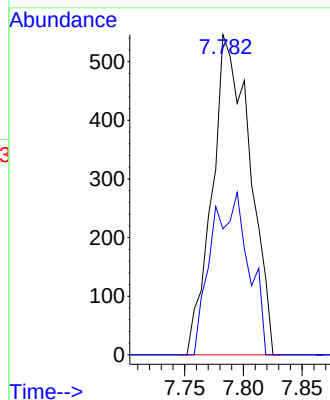


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.782 min Scan# 91
Delta R.T. -0.007 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

Instrument :
MSVOA_Y
ClientSampleId :

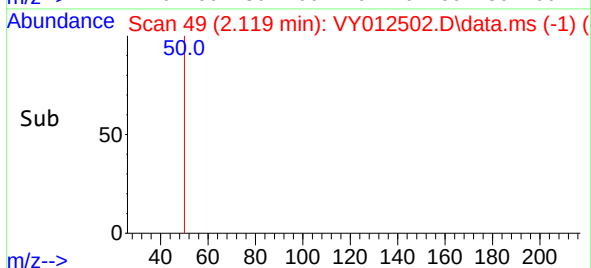
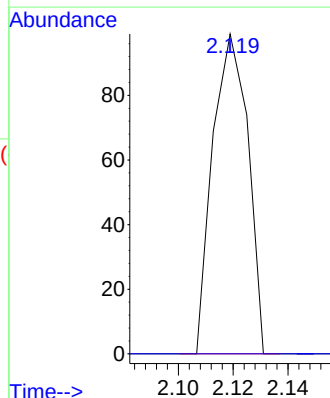
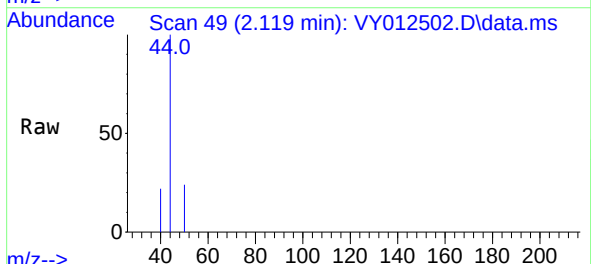


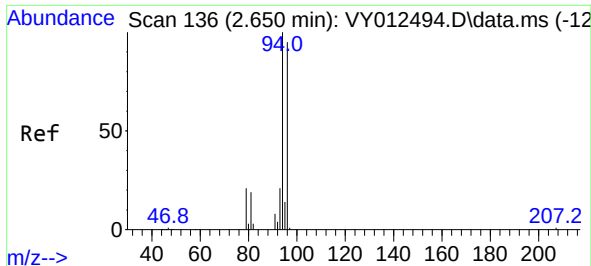
Tgt Ion:168 Resp: 1219
Ion Ratio Lower Upper
168 100
99 39.4 44.0 66.0#



#3
Chloromethane
Concen: 9.512 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.006 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

Tgt Ion: 50 Resp: 89
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

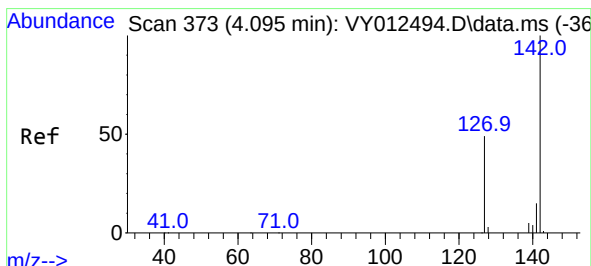
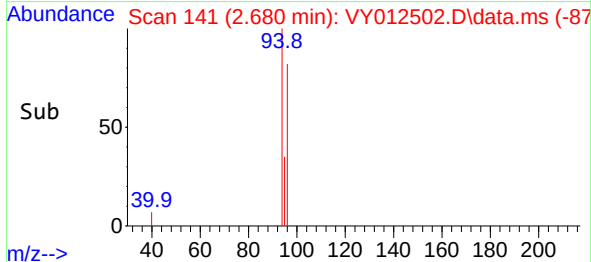
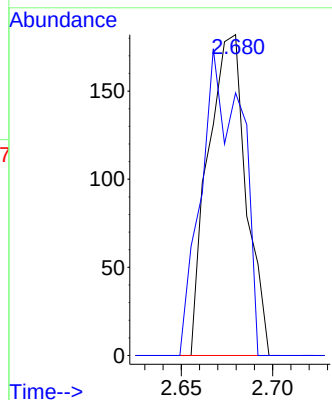
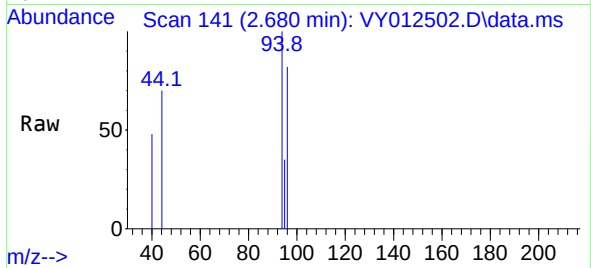




#5
Bromomethane
Concen: 30.180 ug/l
RT: 2.680 min Scan# 14
Delta R.T. 0.030 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

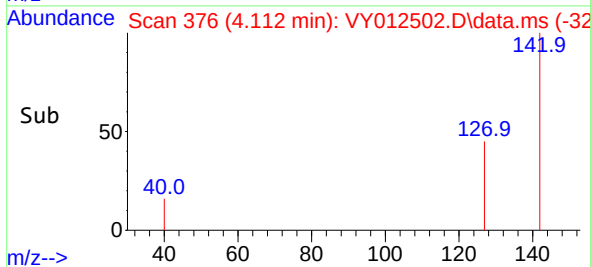
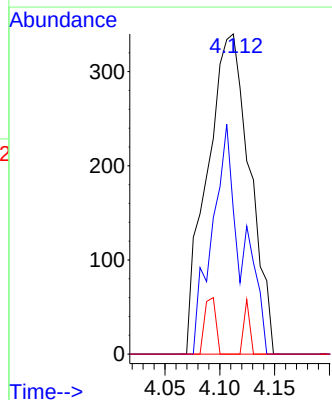
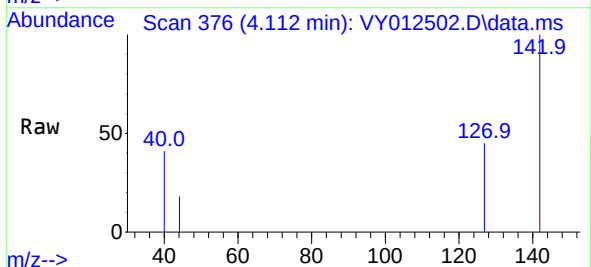
Instrument :
MSVOA_Y
ClientSampleId :

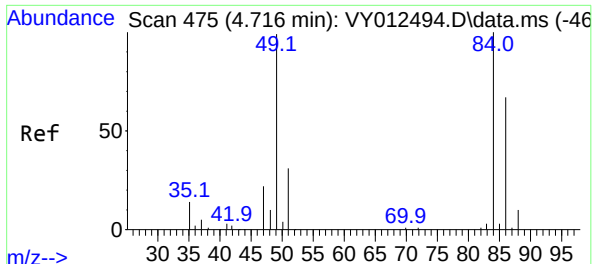
Tgt Ion: 94 Resp: 263
Ion Ratio Lower Upper
94 100
96 81.9 77.4 116.2



#10
Methyl Iodide
Concen: 56.354 ug/l
RT: 4.112 min Scan# 376
Delta R.T. 0.017 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

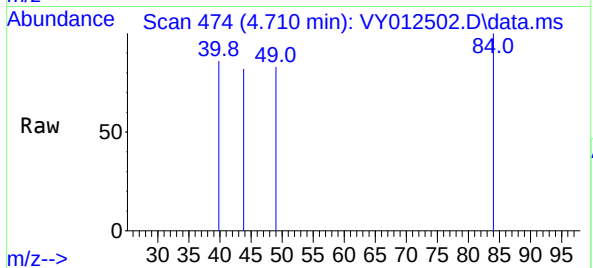
Tgt Ion:142 Resp: 921
Ion Ratio Lower Upper
142 100
127 50.2 37.0 55.4
141 2.3 11.4 17.0#





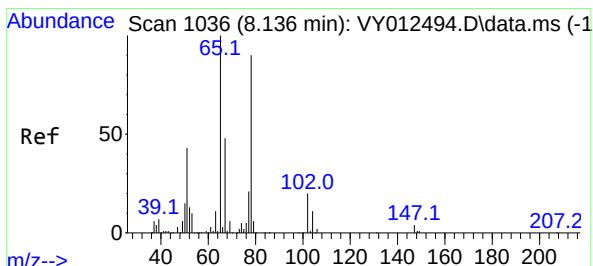
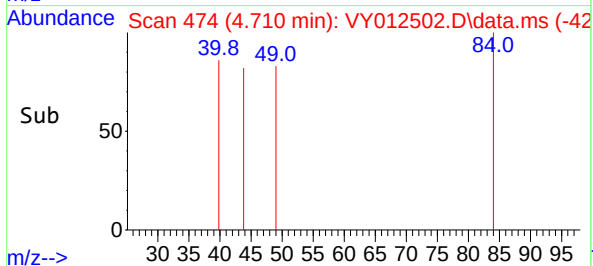
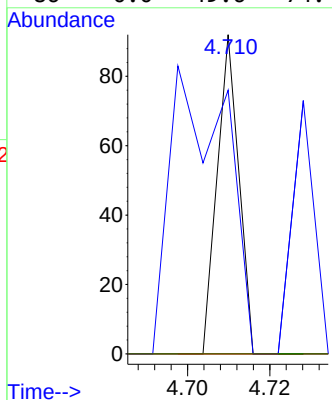
#20
Methylene Chloride
Concen: Below Cal
RT: 4.710 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion: 84 Resp: 34

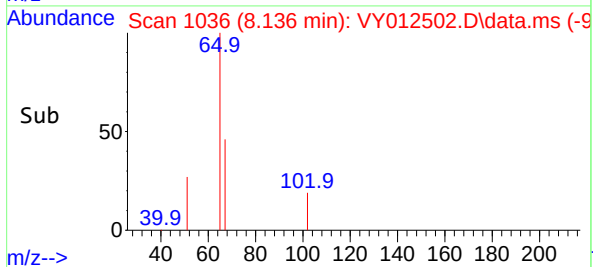
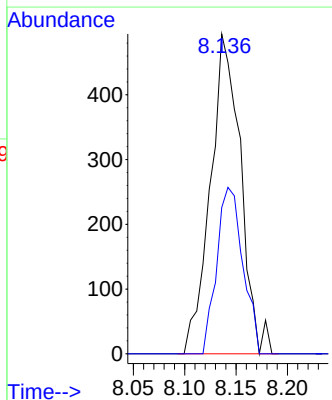
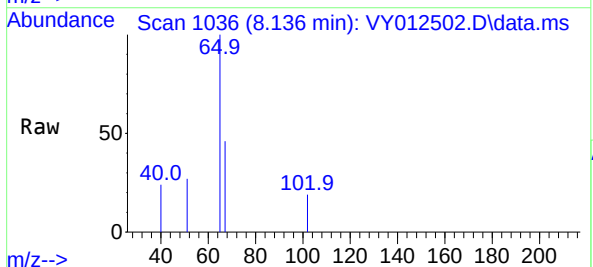
Ion	Ratio	Lower	Upper
84	100		
49	82.6	95.4	143.2#
51	0.0	29.9	44.9#
86	0.0	49.6	74.4#

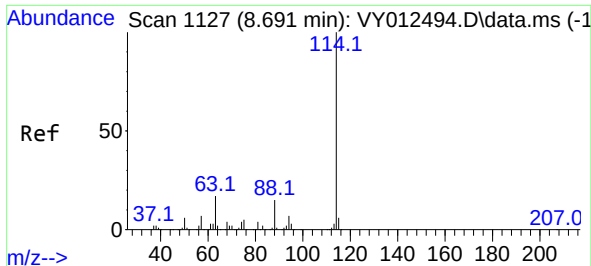


#33
1,2-Dichloroethane-d4
Concen: 66.505 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. -0.007 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

Tgt Ion: 65 Resp: 1006

Ion	Ratio	Lower	Upper
65	100		
67	45.1	0.0	103.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VY012502.D

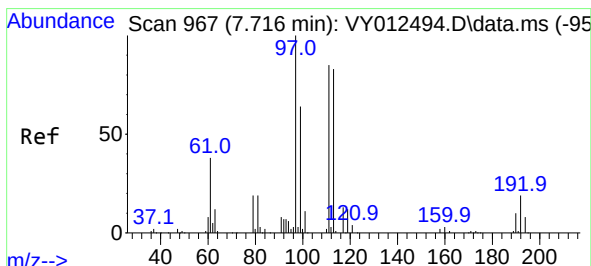
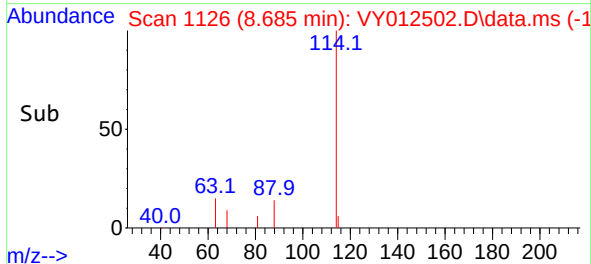
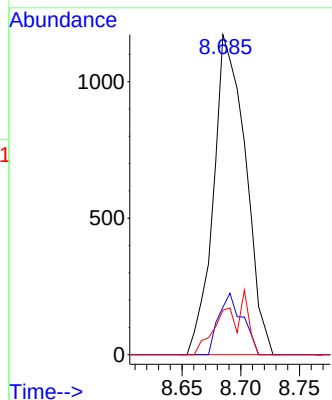
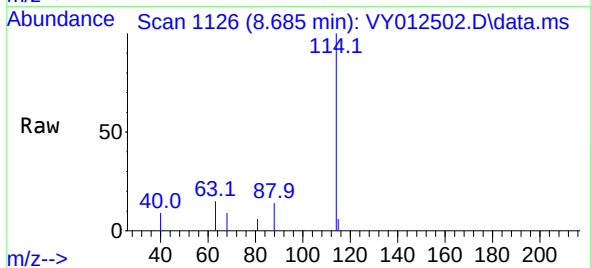
Acq: 06 Feb 2023 17:56

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:114	Resp:	2226
Ion	Ratio	Lower Upper
114	100	
63	14.8	0.0 39.6
88	13.9	0.0 32.2



#35

Dibromofluoromethane

Concen: 22.546 ug/l

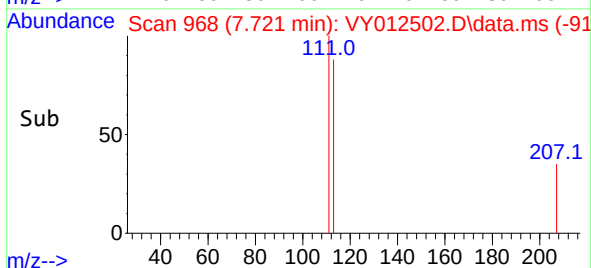
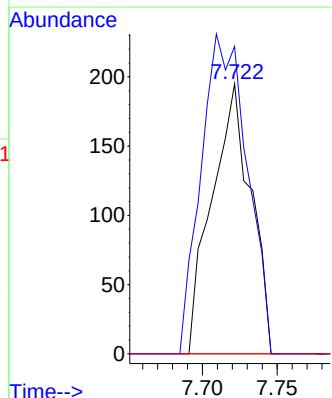
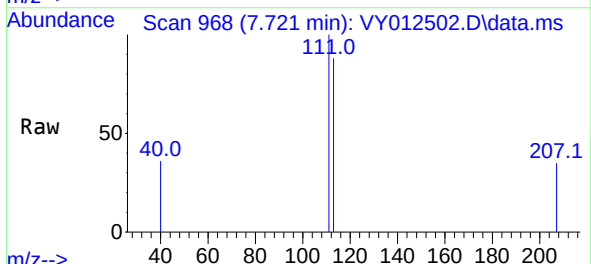
RT: 7.721 min Scan# 968

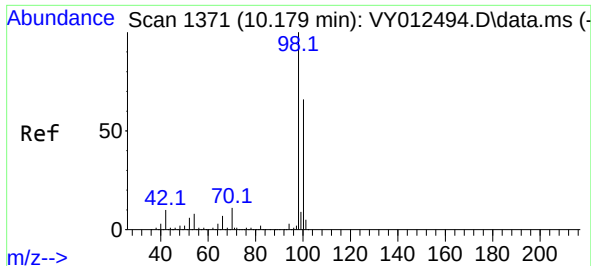
Delta R.T. 0.005 min

Lab File: VY012502.D

Acq: 06 Feb 2023 17:56

Tgt Ion:113	Resp:	354
Ion	Ratio	Lower Upper
113	100	
111	139.3	83.0 124.4#
192	0.0	16.0 24.0#

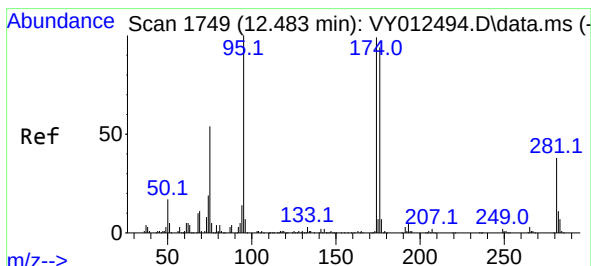
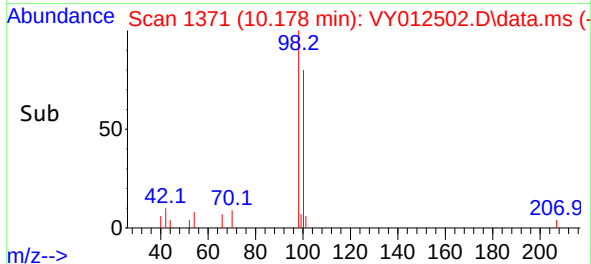
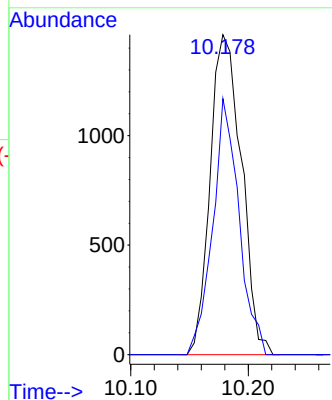
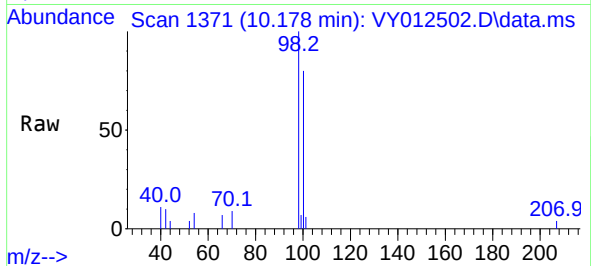




#50
Toluene-d8
Concen: 41.370 ug/l
RT: 10.178 min Scan# 11
Delta R.T. -0.001 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

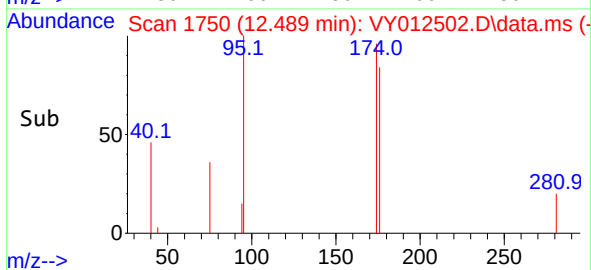
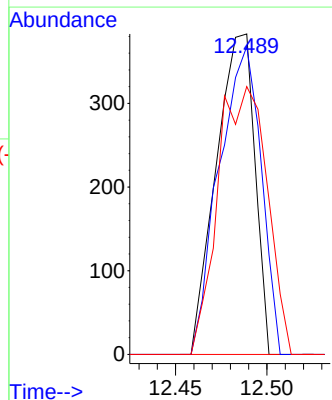
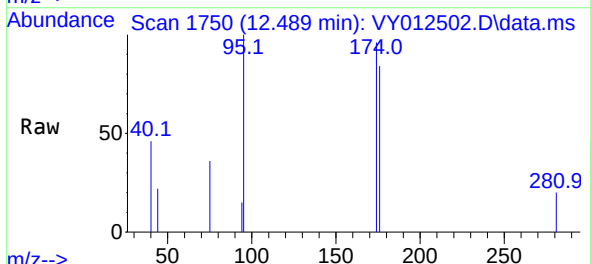
Instrument :
MSVOA_Y
ClientSampleId :

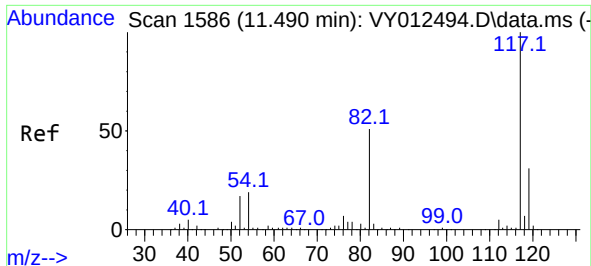
Tgt Ion: 98 Resp: 2700
Ion Ratio Lower Upper
98 100
100 67.3 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 25.667 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

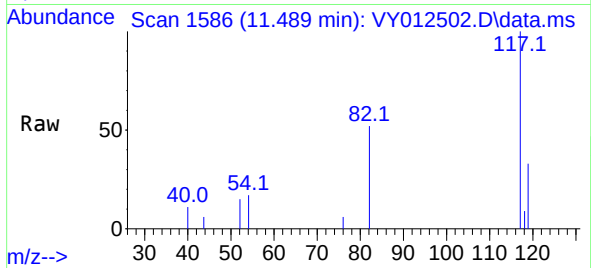
Tgt Ion: 95 Resp: 563
Ion Ratio Lower Upper
95 100
174 104.3 0.0 172.0
176 106.7 0.0 167.6





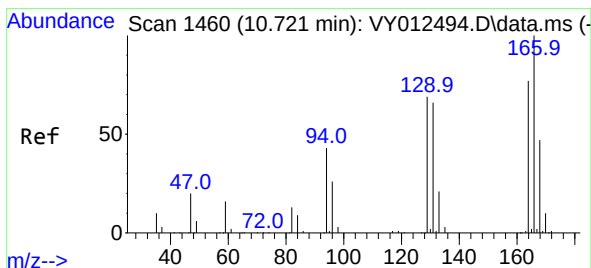
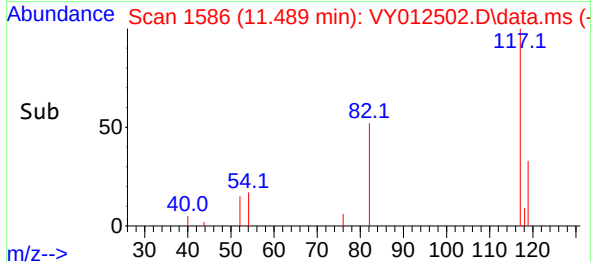
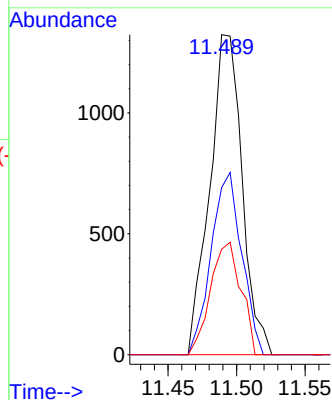
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 117
Delta R.T. -0.001 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:117 Resp: 2172

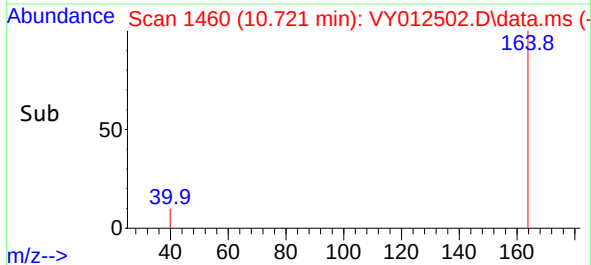
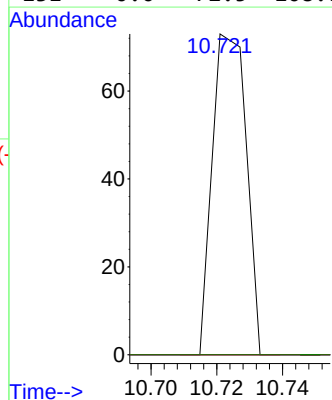
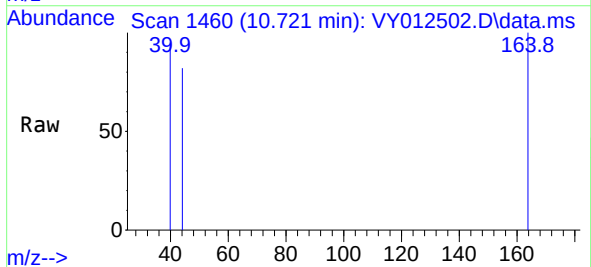
Ion	Ratio	Lower	Upper
117	100		
82	52.2	44.8	67.2
119	32.9	25.4	38.2

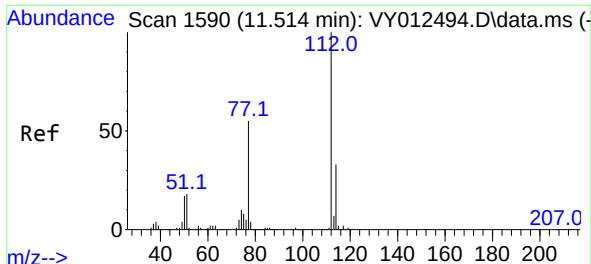


#64
Tetrachloroethene
Concen: 2.304 ug/l
RT: 10.721 min Scan# 1460
Delta R.T. -0.000 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

Tgt Ion:164 Resp: 52

Ion	Ratio	Lower	Upper
164	100		
166	0.0	102.3	153.5#
129	0.0	77.2	115.8#
131	0.0	72.5	108.7#





#65

Chlorobenzene

Concen: 1.700 ug/l

RT: 11.514 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY012502.D

Acq: 06 Feb 2023 17:56

Instrument :

MSVOA_Y

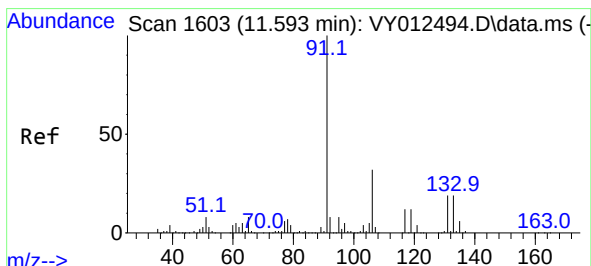
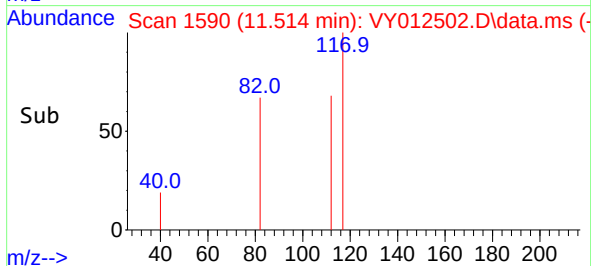
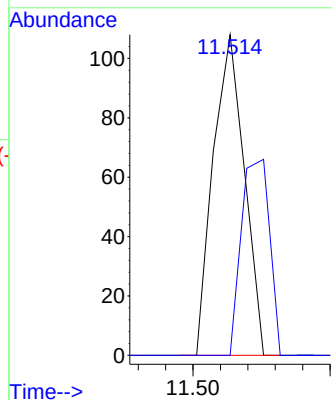
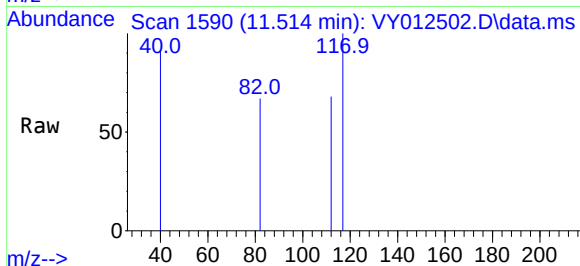
ClientSampleId :

Tgt Ion:112 Resp: 85

Ion Ratio Lower Upper

112 100

114 0.0 25.3 37.9#



#67

Ethyl Benzene

Concen: 1.950 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. 0.006 min

Lab File: VY012502.D

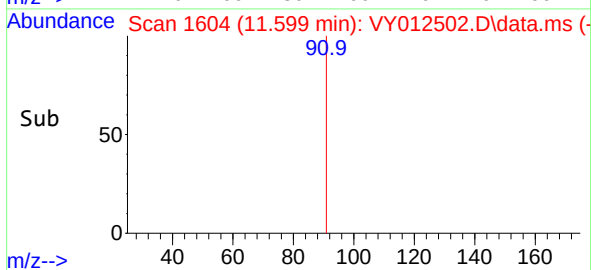
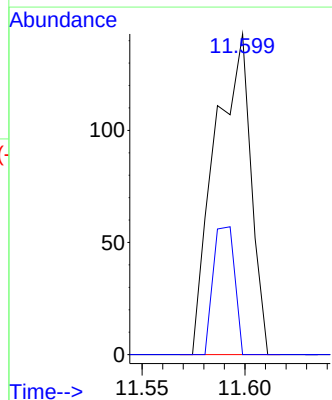
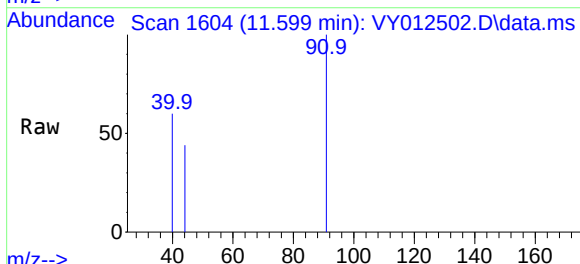
Acq: 06 Feb 2023 17:56

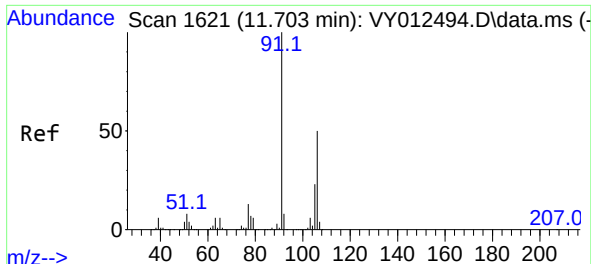
Tgt Ion: 91 Resp: 173

Ion Ratio Lower Upper

91 100

106 0.0 25.0 37.4#

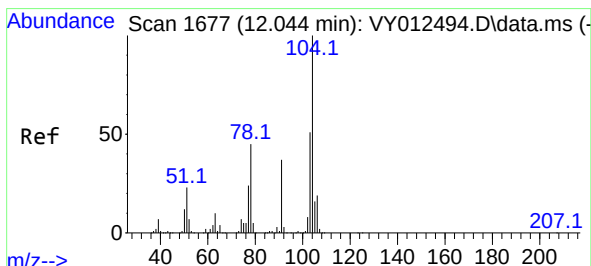
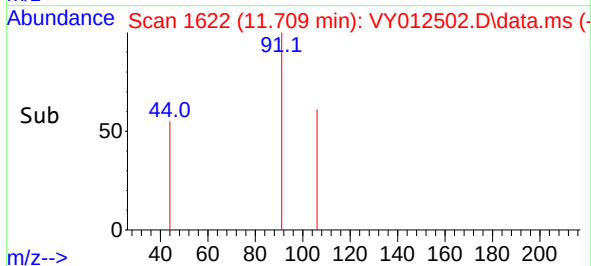
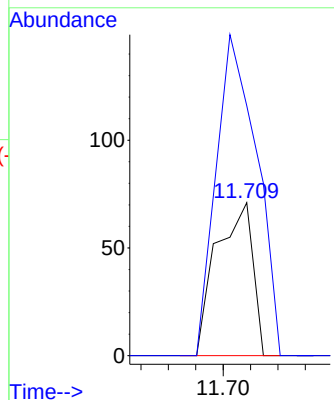
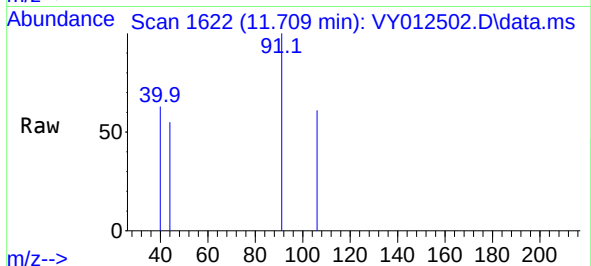




#68
m/p-Xylenes
Concen: 1.843 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

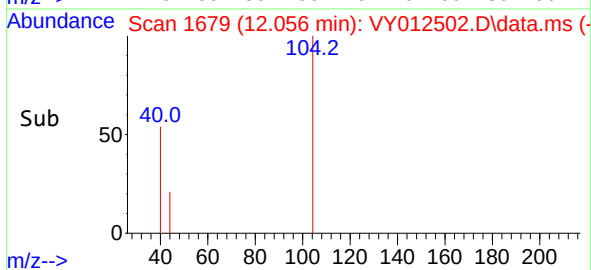
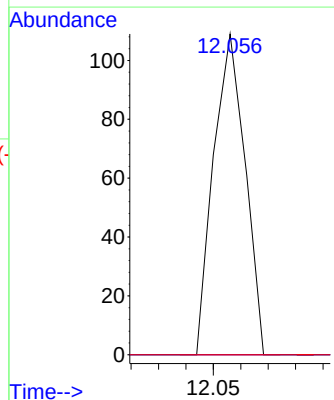
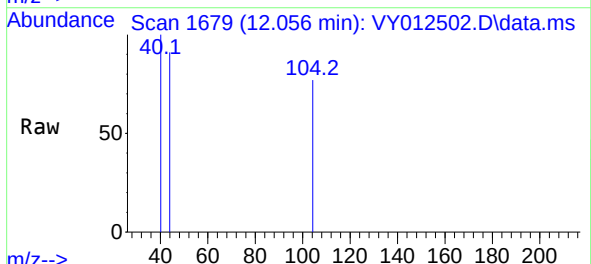
Instrument :
MSVOA_Y
ClientSampleId :

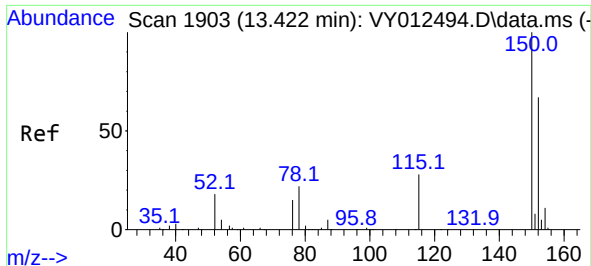
Tgt Ion:106 Resp: 65
Ion Ratio Lower Upper
106 100
91 235.4 162.5 243.7



#70
Styrene
Concen: 1.520 ug/l
RT: 12.056 min Scan# 1679
Delta R.T. 0.012 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

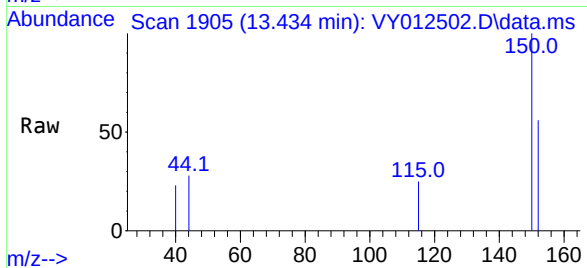
Tgt Ion:104 Resp: 87
Ion Ratio Lower Upper
104 100
78 0.0 39.4 59.0#
103 0.0 43.0 64.4#



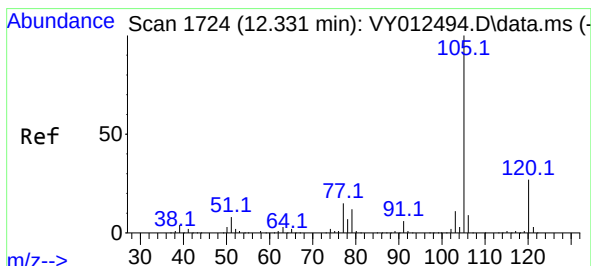
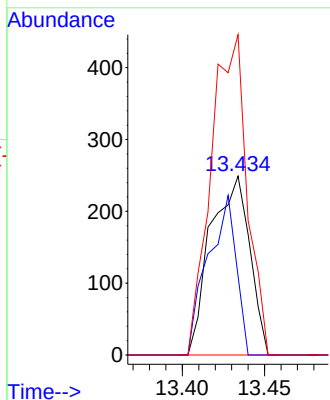
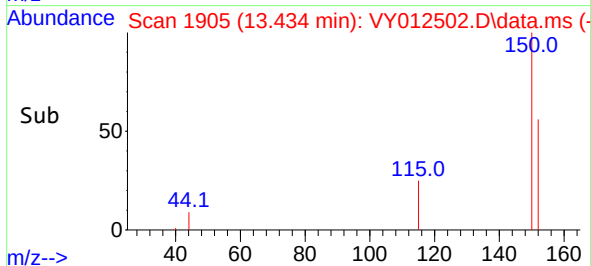


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.434 min Scan# 1905
 Delta R.T. 0.012 min
 Lab File: VY012502.D
 Acq: 06 Feb 2023 17:56

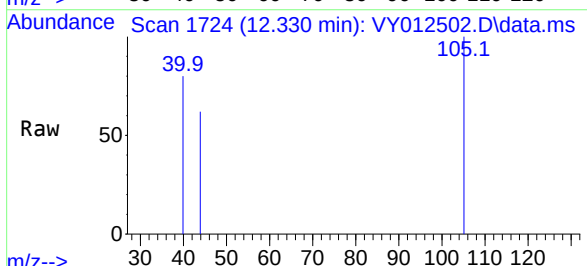
Instrument :
 MSVOA_Y
 ClientSampleId :



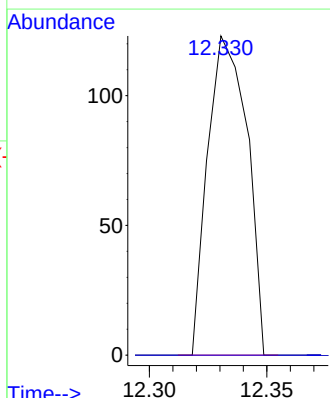
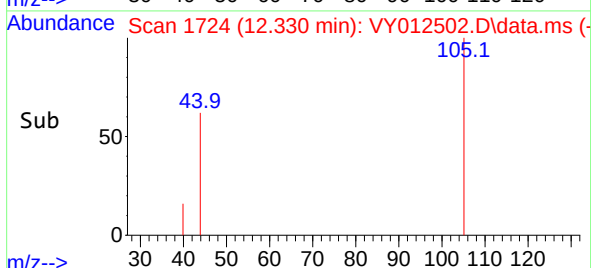
Tgt Ion:152 Resp: 410
 Ion Ratio Lower Upper
 152 100
 115 64.6 29.1 87.3
 150 165.9 0.0 342.6

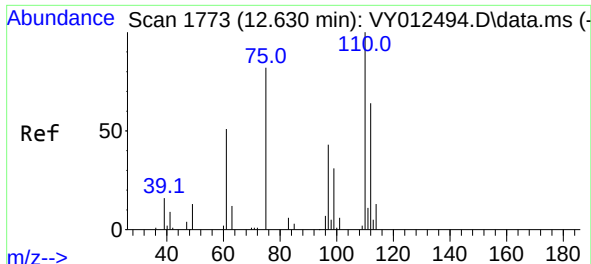


#73
 Isopropylbenzene
 Concen: 4.403 ug/l
 RT: 12.330 min Scan# 1724
 Delta R.T. -0.001 min
 Lab File: VY012502.D
 Acq: 06 Feb 2023 17:56



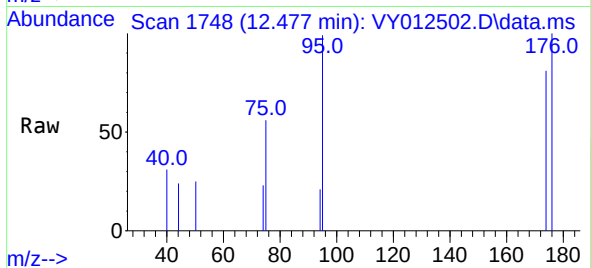
Tgt Ion:105 Resp: 143
 Ion Ratio Lower Upper
 105 100
 120 0.0 13.2 39.6#



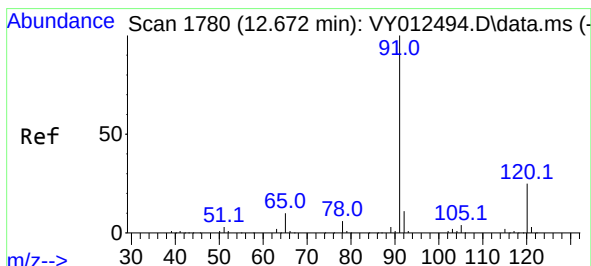
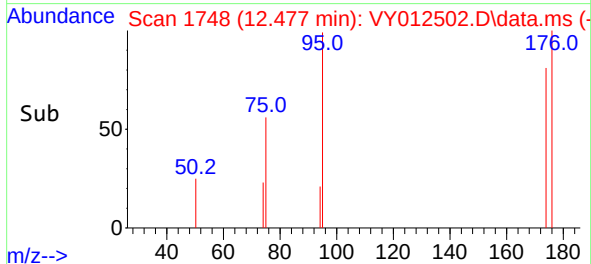
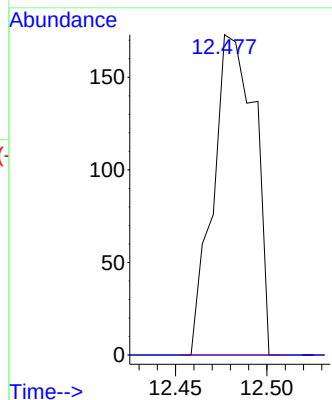


#76
1,2,3-Trichloropropane
Concen: 60.080 ug/l
RT: 12.477 min Scan# 1773
Delta R.T. -0.153 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

Instrument :
MSVOA_Y
ClientSampleId :

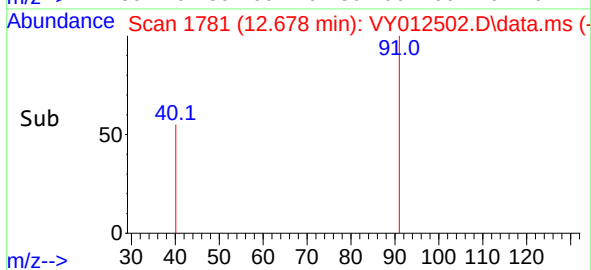
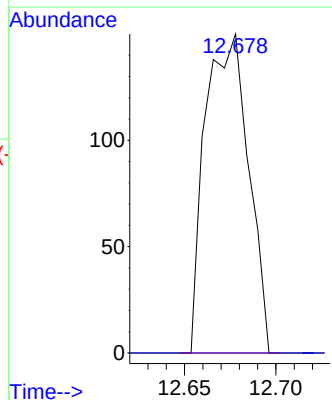
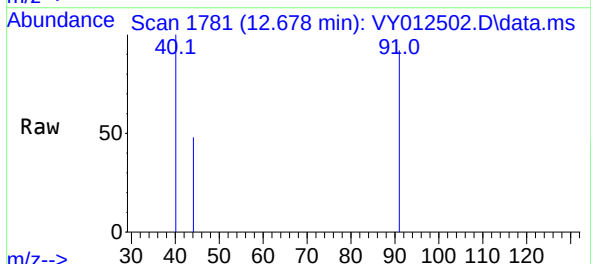


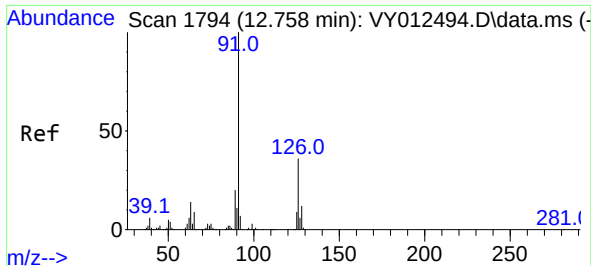
Tgt Ion: 75 Resp: 275
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 6.541 ug/l
RT: 12.678 min Scan# 1781
Delta R.T. 0.006 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

Tgt Ion: 91 Resp: 247
Ion Ratio Lower Upper
91 100
120 0.0 11.8 35.4#

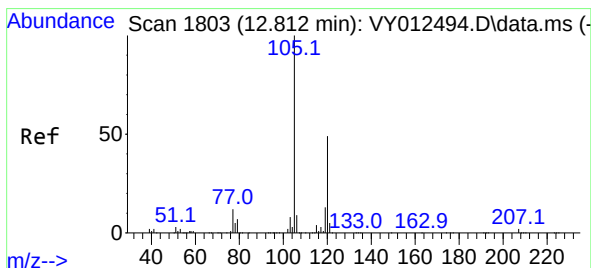
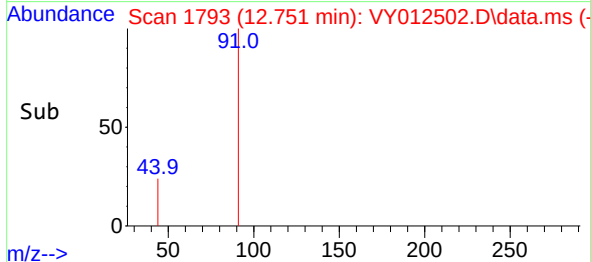
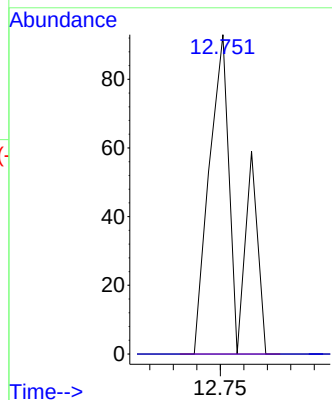
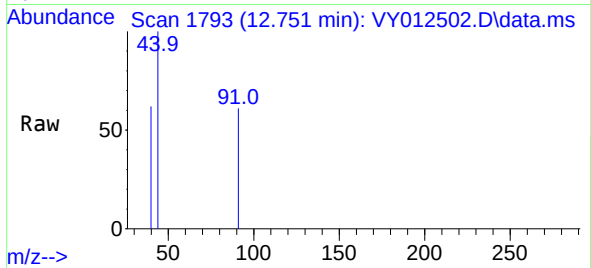




#79
2-Chlorotoluene
Concen: 3.491 ug/l
RT: 12.751 min Scan# 11
Delta R.T. -0.007 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

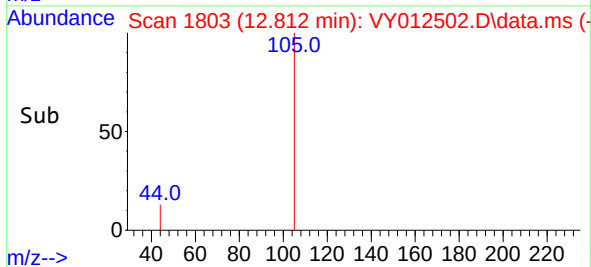
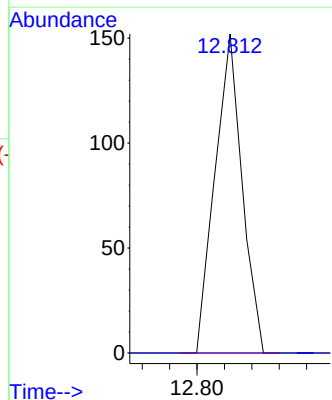
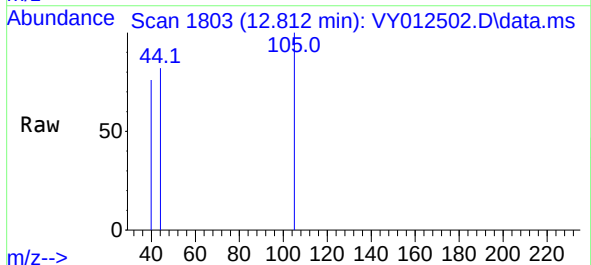
Instrument :
MSVOA_Y
ClientSampleId :

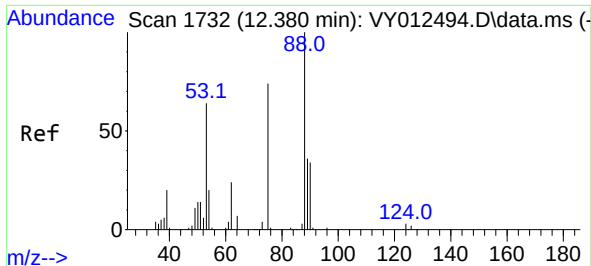
Tgt Ion: 91 Resp: 75
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.5#



#80
1,3,5-Trimethylbenzene
Concen: 3.716 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.001 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

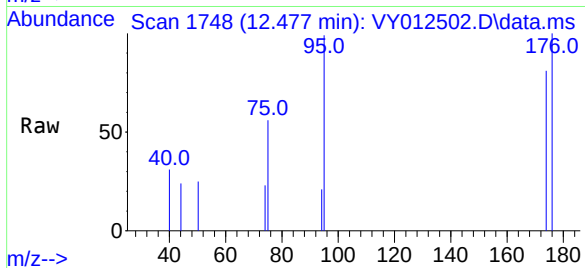
Tgt Ion: 105 Resp: 104
Ion Ratio Lower Upper
105 100
120 0.0 24.2 72.6#



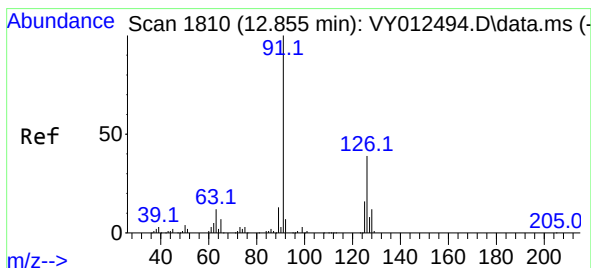
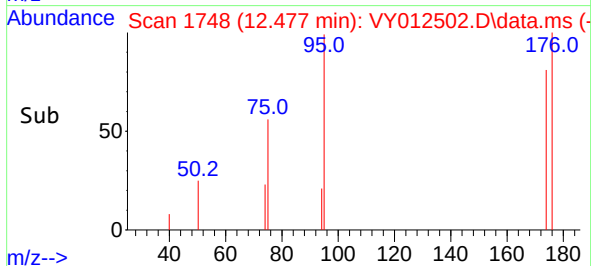
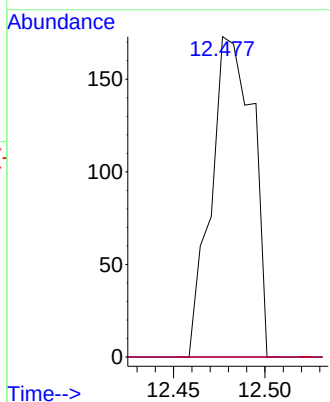


#81
trans-1,4-Dichloro-2-butene
Concen: 132.998 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.103 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

Instrument :
MSVOA_Y
ClientSampleId :

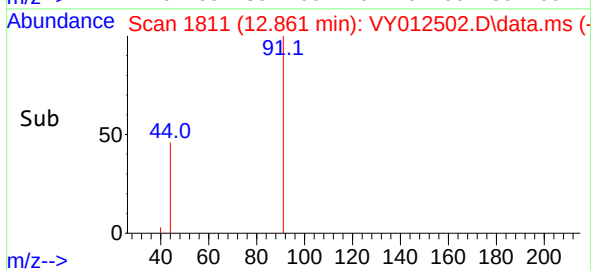
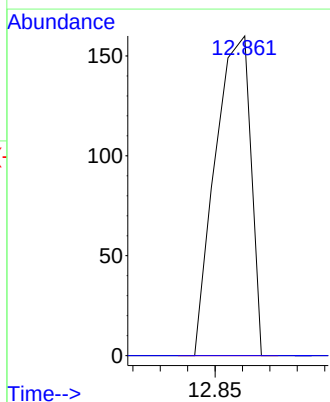
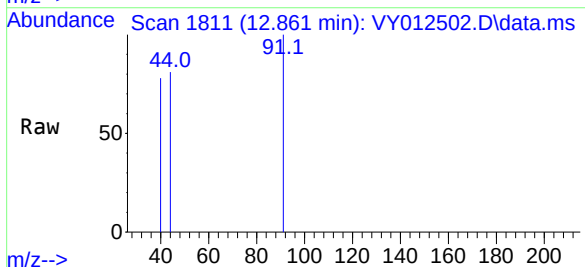


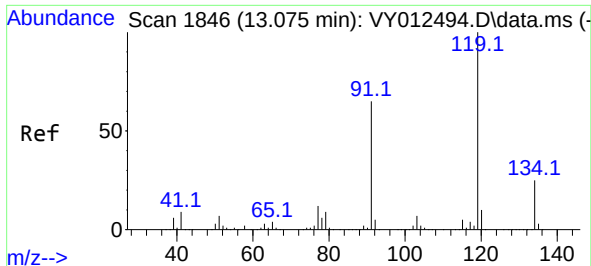
Tgt Ion: 75 Resp: 275
Ion Ratio Lower Upper
75 100
53 0.0 72.5 108.7#
89 0.0 37.0 55.4#



#82
4-Chlorotoluene
Concen: 6.377 ug/l
RT: 12.861 min Scan# 1811
Delta R.T. 0.006 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

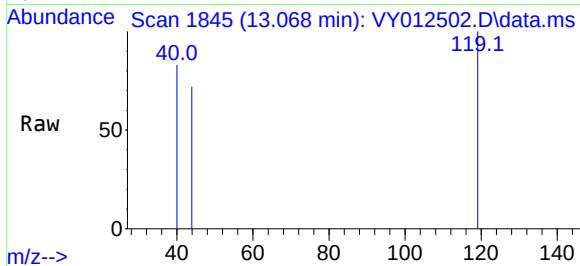
Tgt Ion: 91 Resp: 144
Ion Ratio Lower Upper
91 100
126 0.0 17.1 51.2#



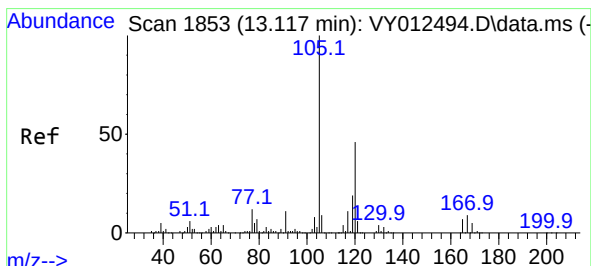
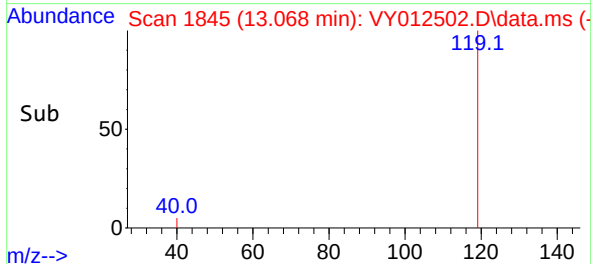
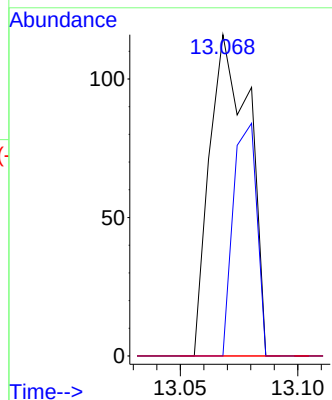


#83
tert-Butylbenzene
Concen: 5.543 ug/l
RT: 13.068 min Scan# 1845
Delta R.T. -0.007 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

Instrument :
MSVOA_Y
ClientSampleId :

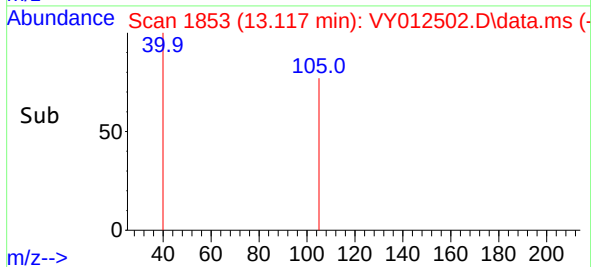
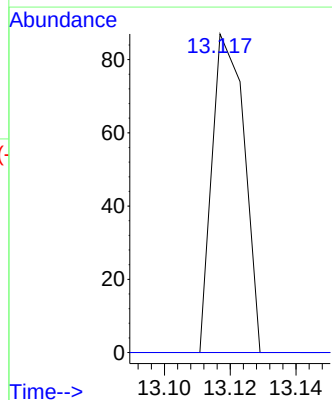
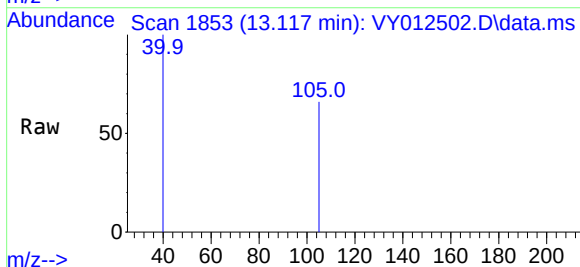


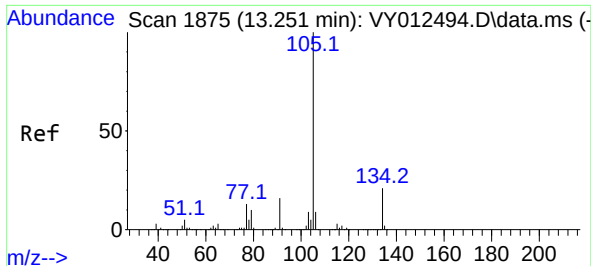
Tgt Ion:119 Resp: 136
Ion Ratio Lower Upper
119 100
91 43.4 32.3 96.8
134 0.0 13.0 39.0#



#84
1,2,4-Trimethylbenzene
Concen: 2.126 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VY012502.D
Acq: 06 Feb 2023 17:56

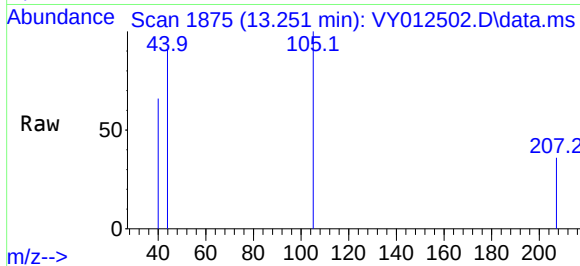
Tgt Ion:105 Resp: 59
Ion Ratio Lower Upper
105 100
120 0.0 22.9 68.7#



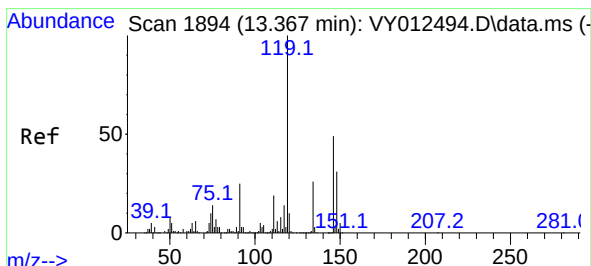
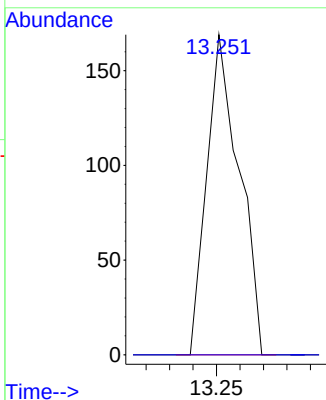
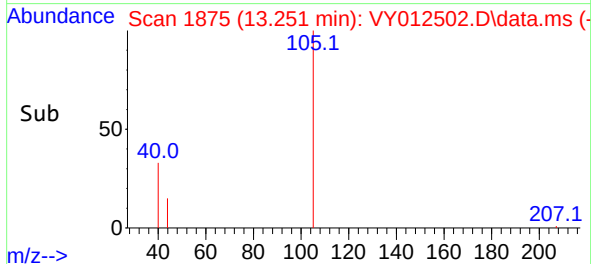


#85
 sec-Butylbenzene
 Concen: 4.580 ug/l
 RT: 13.251 min Scan# 1875
 Delta R.T. 0.000 min
 Lab File: VY012502.D
 Acq: 06 Feb 2023 17:56

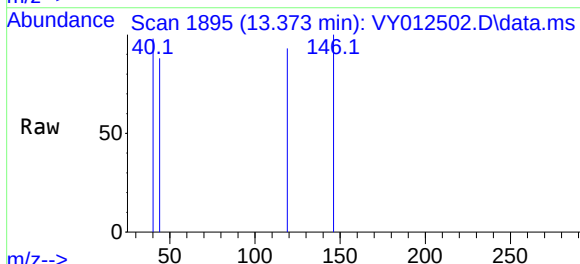
Instrument :
 MSVOA_Y
 ClientSampleId :



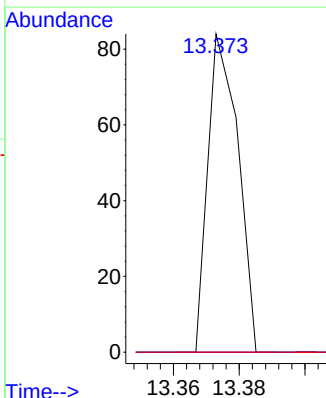
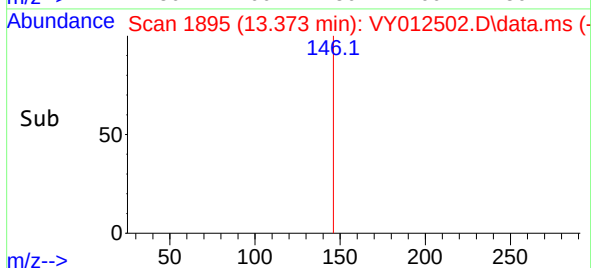
Tgt Ion:105 Resp: 162
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.3#

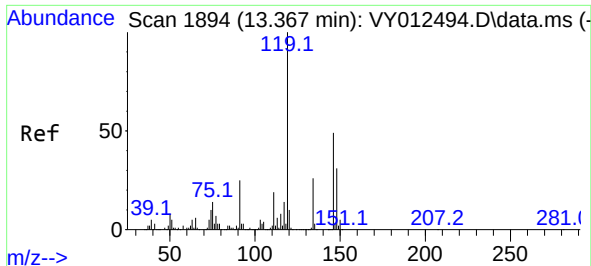


#86
 p-Isopropyltoluene
 Concen: 1.717 ug/l
 RT: 13.373 min Scan# 1895
 Delta R.T. 0.006 min
 Lab File: VY012502.D
 Acq: 06 Feb 2023 17:56



Tgt Ion:119 Resp: 53
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.0 39.0#
 91 0.0 11.9 35.9#





#87

1,3-Dichlorobenzene

Concen: 5.614 ug/l

RT: 13.373 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY012502.D

Acq: 06 Feb 2023 17:56

Instrument :

MSVOA_Y

ClientSampleId :

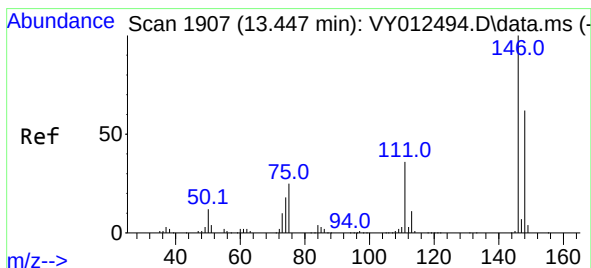
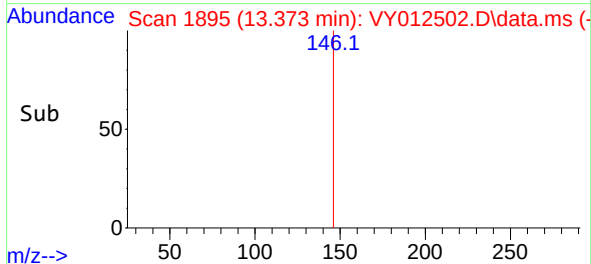
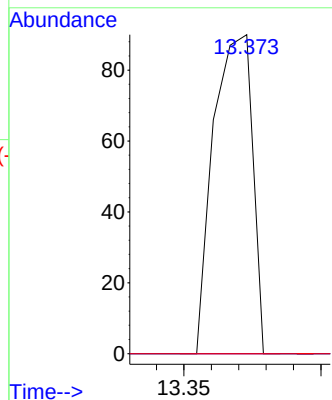
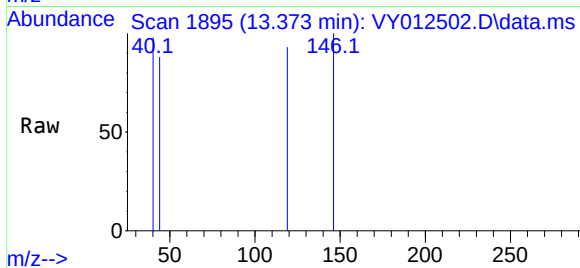
Tgt Ion:146 Resp: 89

Ion Ratio Lower Upper

146 100

111 0.0 19.7 59.0#

148 0.0 32.0 96.0#



#88

1,4-Dichlorobenzene

Concen: 4.989 ug/l

RT: 13.452 min Scan# 1908

Delta R.T. 0.005 min

Lab File: VY012502.D

Acq: 06 Feb 2023 17:56

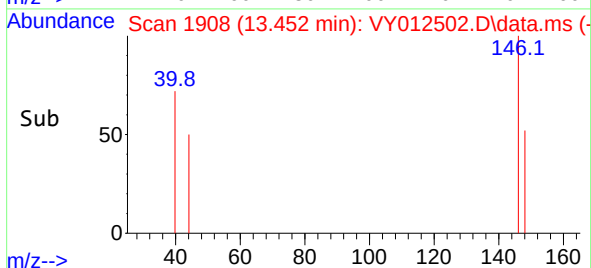
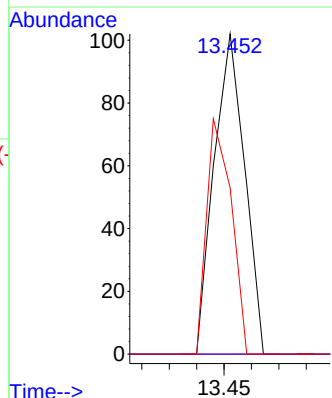
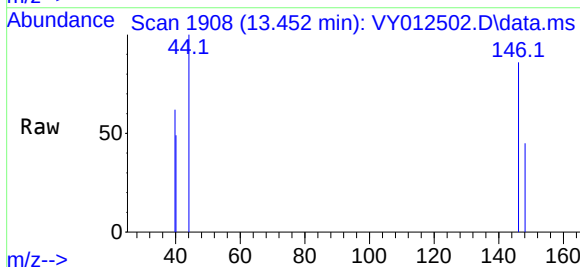
Tgt Ion:146 Resp: 79

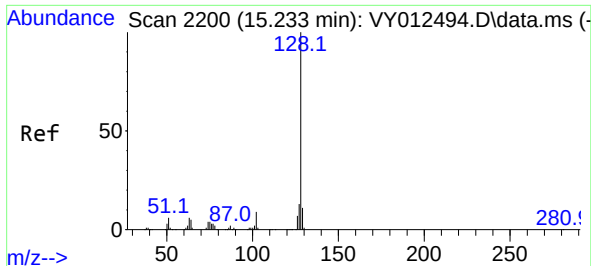
Ion Ratio Lower Upper

146 100

111 0.0 19.6 58.7#

148 59.5 31.9 95.7





#95

Naphthalene

Concen: 14.903 ug/l

RT: 15.238 min Scan# 21

Delta R.T. 0.005 min

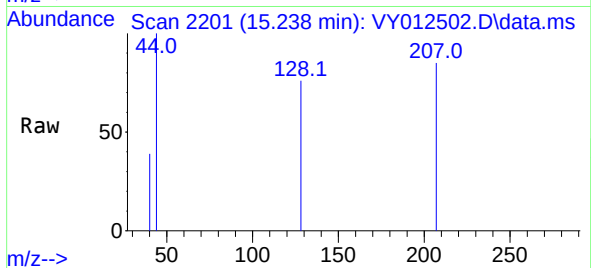
Lab File: VY012502.D

Acq: 06 Feb 2023 17:56

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 273

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#

