

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092024\
 Data File : VY019653.D
 Acq On : 20 Sep 2024 18:07
 Operator : SY/MD
 Sample : P4125-01
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 20 23:53:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 09 16:00:30 2024
 Response via : Initial Calibration

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

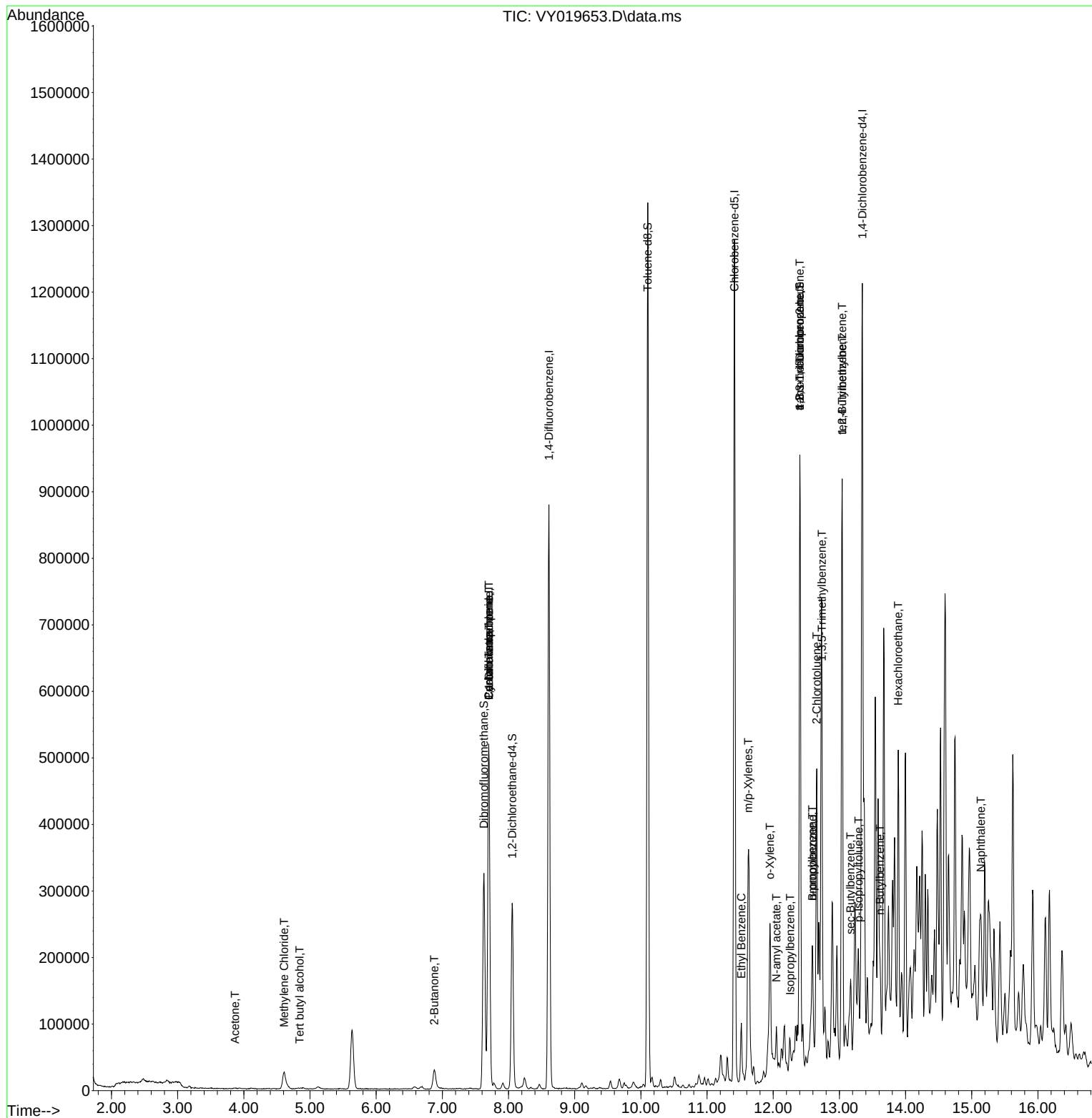
Internal Standards						
1) Pentafluorobenzene	7.701	168	391432	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.609	114	729107	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	657774	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	272471	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	219408	60.533	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 121.060%	
35) Dibromofluoromethane	7.628	113	231271	55.945	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 111.880%	
50) Toluene-d8	10.103	98	852981	55.786	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 111.580%	
62) 4-Bromofluorobenzene	12.401	95	292483	49.748	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 99.500%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.861	85	120	Below Cal	#	43
11) Tert butyl alcohol	4.842	59	1546	5.282	ug/l #	77
13) Acrolein	3.659	56	61	Below Cal	#	55
16) Acetone	3.866	43	1752	2.029	ug/l #	61
20) Methylene Chloride	4.610	84	18039	4.581	ug/l	93
25) 2-Butanone	6.878	43	1499	1.221	ug/l #	41
31) Cyclohexane	7.701	56	10428	1.608	ug/l #	11
36) 1,1-Dichloropropene	7.701	75	32791	5.829	ug/l #	48
38) Carbon Tetrachloride	7.701	117	39578	6.239	ug/l #	17
67) Ethyl Benzene	11.518	91	56720	2.467	ug/l	98
68) m/p-Xylenes	11.621	106	90264	10.383	ug/l	94
69) o-Xylene	11.950	106	51190	6.021	ug/l	94
73) Isopropylbenzene	12.255	105	27186	1.375	ug/l	96
74) N-amyl acetate	12.048	43	11945	2.222	ug/l #	50
76) 1,2,3-Trichloropropane	12.401	75	153718	60.191	ug/l #	100
77) Bromobenzene	12.590	156	60361	13.768	ug/l #	1
78) n-propylbenzene	12.590	91	104861	4.476	ug/l	98
79) 2-Chlorotoluene	12.658	91	31333	2.295	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.737	105	117012	7.282	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.401	75	153718	115.549	ug/l #	16
83) tert-Butylbenzene	13.042	119	53330	3.666	ug/l #	60
84) 1,2,4-Trimethylbenzene	13.042	105	447087	28.107	ug/l	98
85) sec-Butylbenzene	13.170	105	52063	2.463	ug/l	87
86) p-Isopropyltoluene	13.292	119	29873	1.728	ug/l	95
89) n-Butylbenzene	13.615	91	55451	3.355	ug/l #	77
90) Hexachloroethane	13.889	117	16867	4.688	ug/l #	12
95) Naphthalene	15.139	128	100051	10.806	ug/l	97

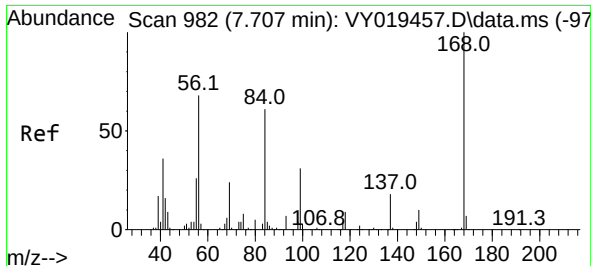
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092024\
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Acq On : 20 Sep 2024 18:07
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QLast Update : Mon Sep 09 16:00:30 2024
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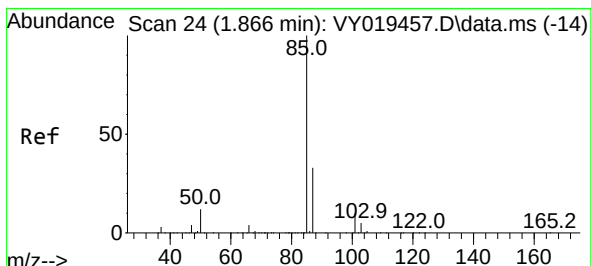
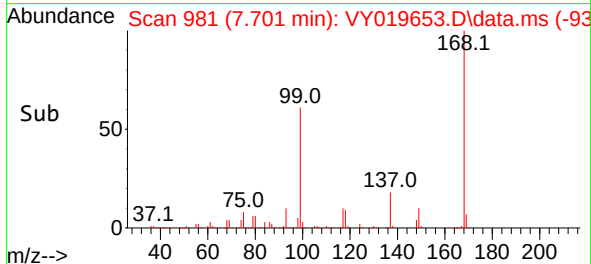
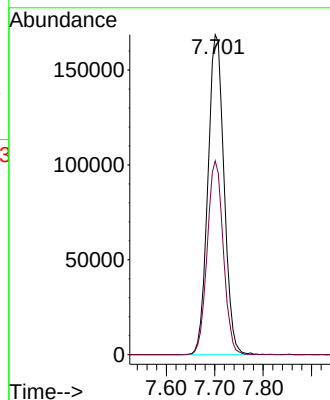
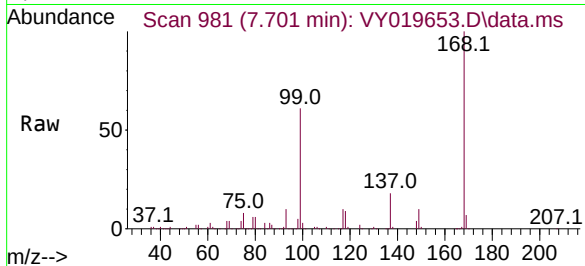




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

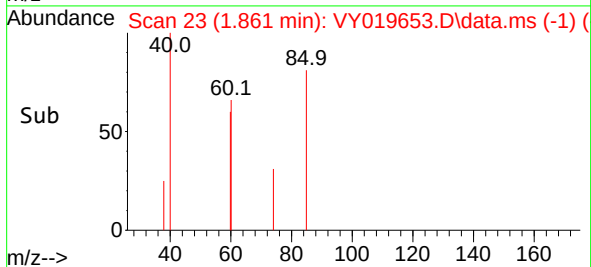
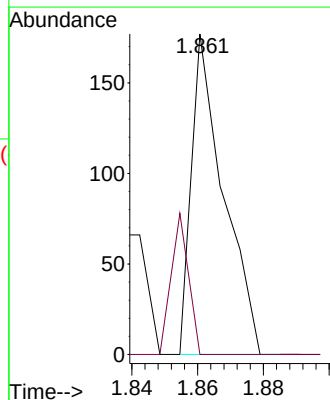
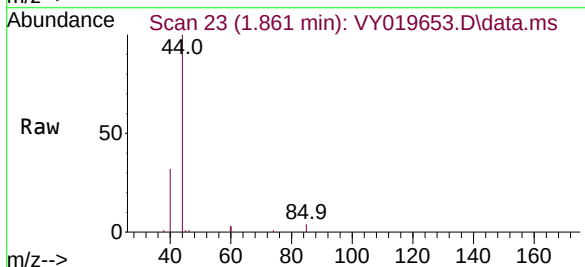
Instrument :
MSVOA_Y
ClientSampleId :

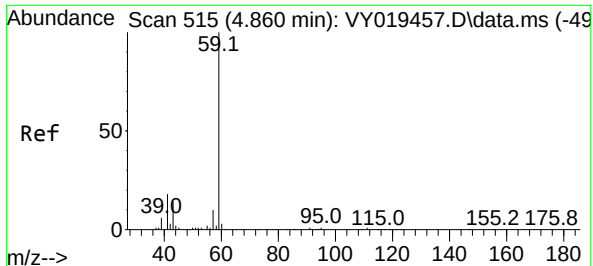
Tgt Ion:168 Resp: 391432
Ion Ratio Lower Upper
168 100
99 60.5 39.1 58.7#



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.861 min Scan# 23
Delta R.T. -0.005 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

Tgt Ion: 85 Resp: 120
Ion Ratio Lower Upper
85 100
87 0.0 16.0 48.0#





#11

Tert butyl alcohol

Concen: 5.282 ug/l

RT: 4.842 min Scan# 51

Delta R.T. -0.018 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Instrument :

MSVOA_Y

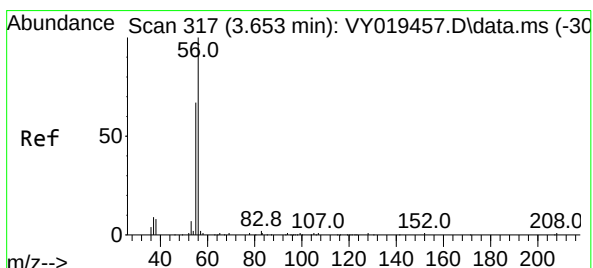
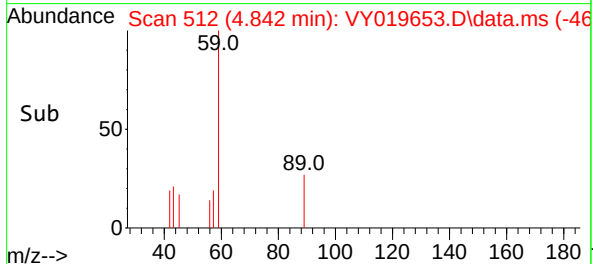
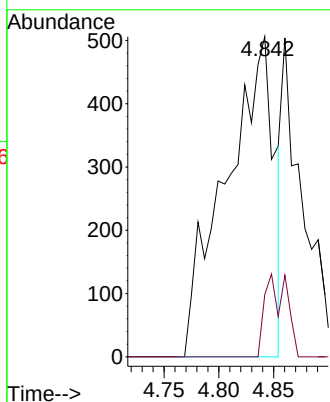
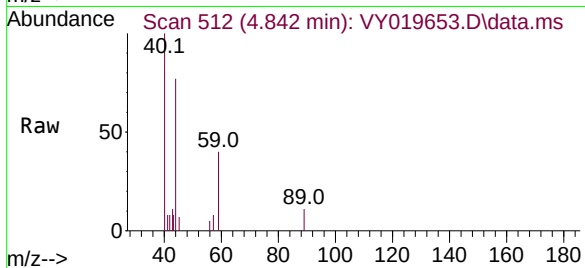
ClientSampleId :

Tgt Ion: 59 Resp: 1546

Ion Ratio Lower Upper

59 100

57 11.4 3.0 4.6#



#13

Acrolein

Concen: Below Cal

RT: 3.659 min Scan# 318

Delta R.T. 0.006 min

Lab File: VY019653.D

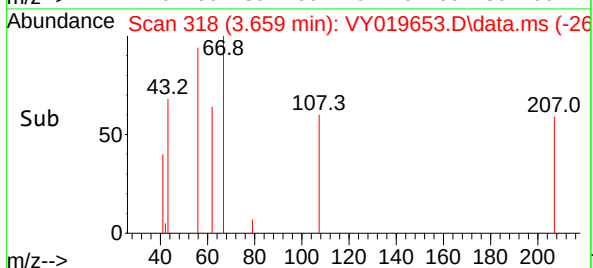
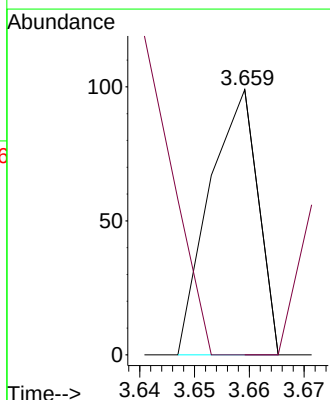
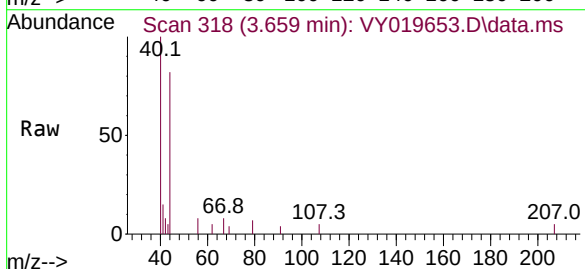
Acq: 20 Sep 2024 18:07

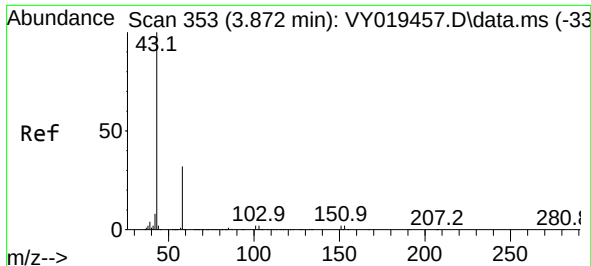
Tgt Ion: 56 Resp: 61

Ion Ratio Lower Upper

56 100

55 106.6 55.7 83.5#





#16

Acetone

Concen: 2.029 ug/l

RT: 3.866 min Scan# 31

Delta R.T. -0.006 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Instrument :

MSVOA_Y

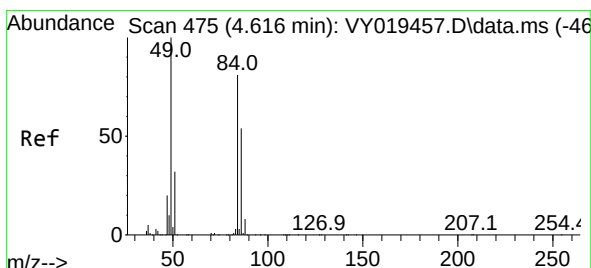
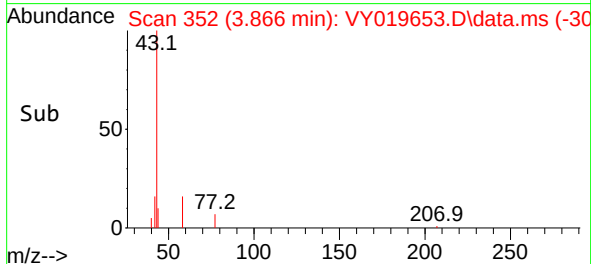
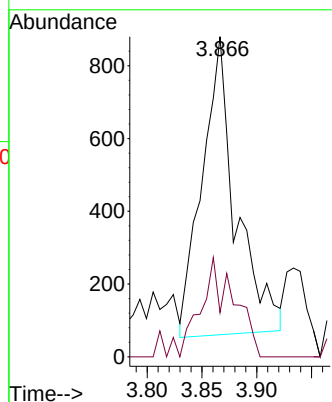
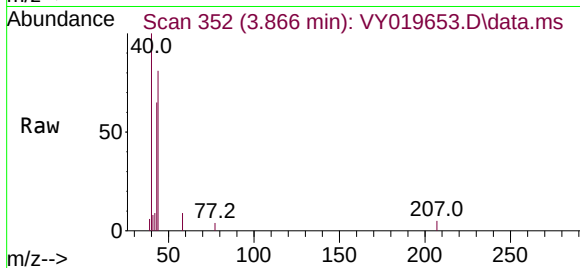
ClientSampleId :

Tgt Ion: 43 Resp: 1752

Ion Ratio Lower Upper

43 100

58 15.5 31.7 47.5#



#20

Methylene Chloride

Concen: 4.581 ug/l

RT: 4.610 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Tgt Ion: 84 Resp: 18039

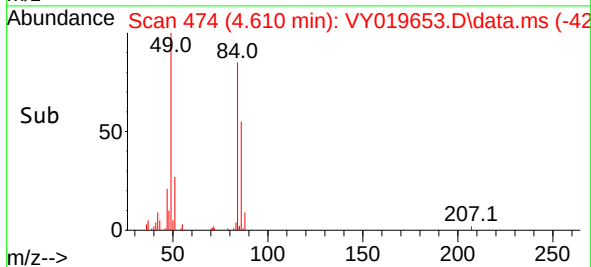
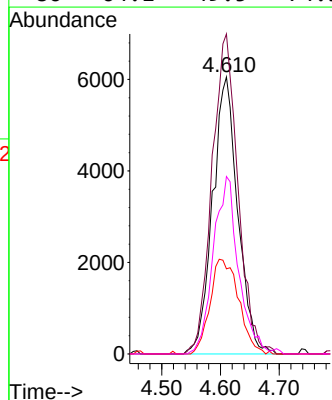
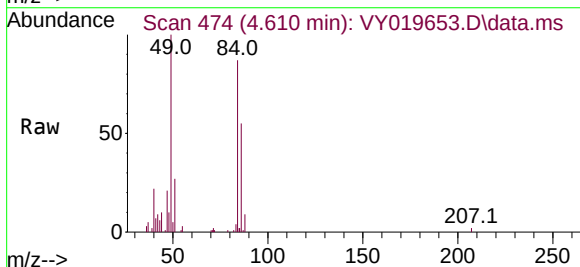
Ion Ratio Lower Upper

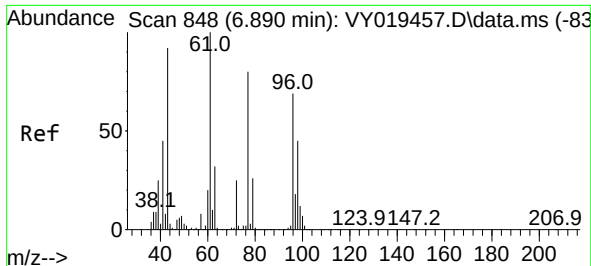
84 100

49 115.5 84.4 126.6

51 30.7 26.0 39.0

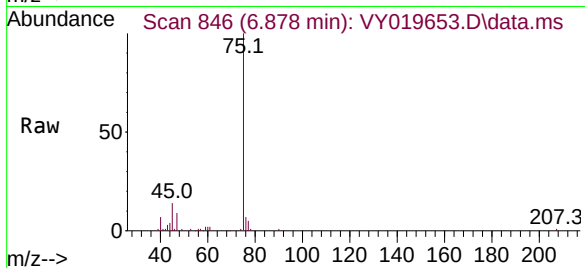
86 64.1 49.5 74.3



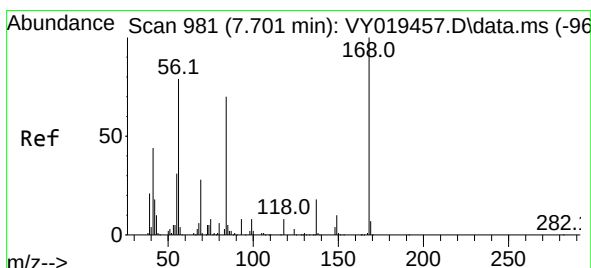
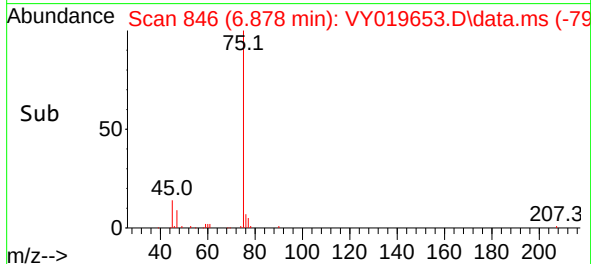
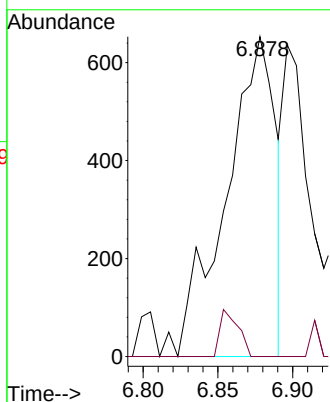


#25
2-Butanone
Concen: 1.221 ug/l
RT: 6.878 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

Instrument :
MSVOA_Y
ClientSampleId :

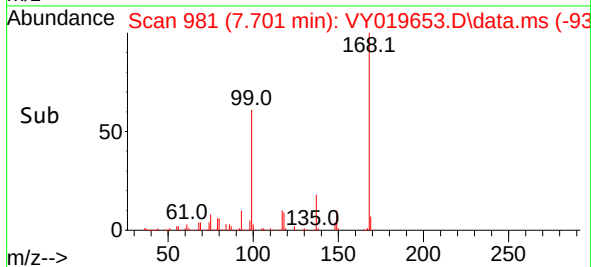
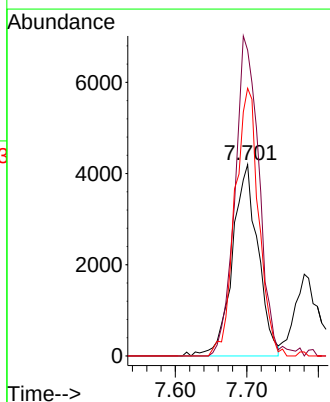
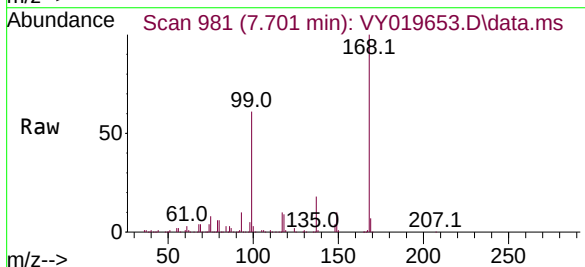


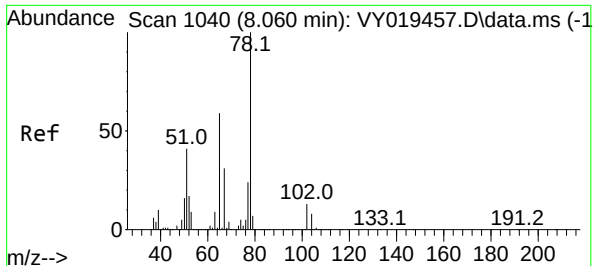
Tgt Ion: 43 Resp: 1499
Ion Ratio Lower Upper
43 100
72 0.0 27.3 40.9#



#31
Cyclohexane
Concen: 1.608 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

Tgt Ion: 56 Resp: 10428
Ion Ratio Lower Upper
56 100
69 159.8 28.7 43.1#
84 139.9 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 60.533 ug/l

RT: 8.055 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Instrument :

MSVOA_Y

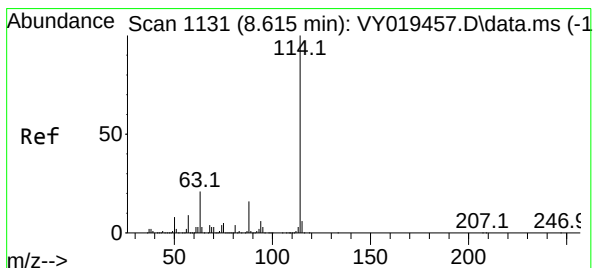
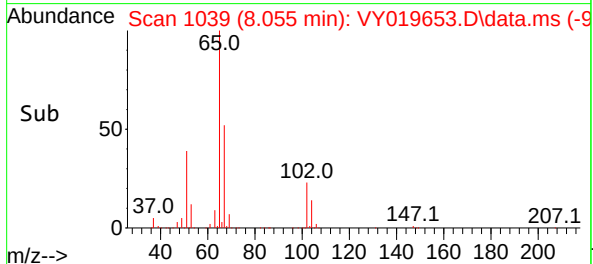
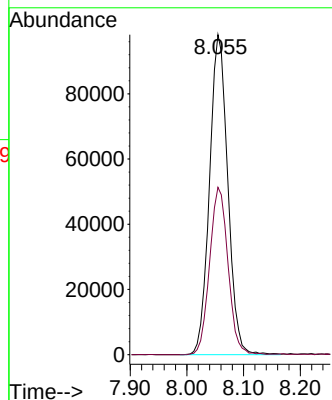
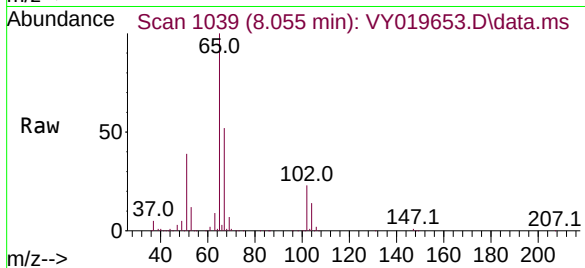
ClientSampleId :

Tgt Ion: 65 Resp: 219408

Ion Ratio Lower Upper

65 100

67 52.7 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

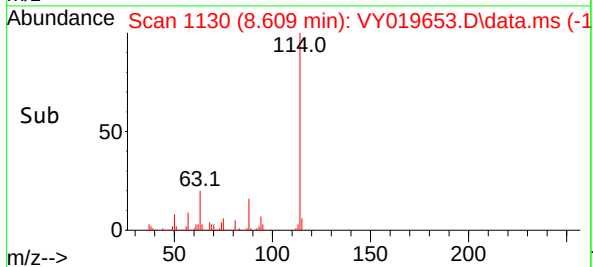
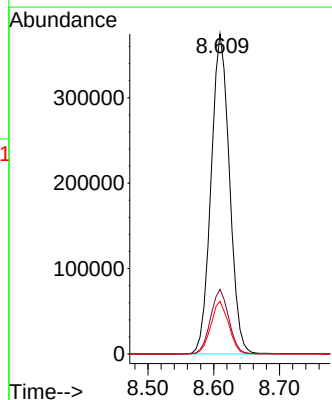
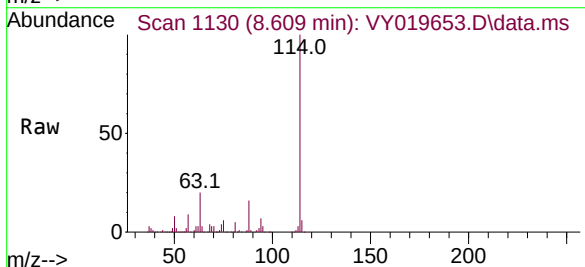
Tgt Ion: 114 Resp: 729107

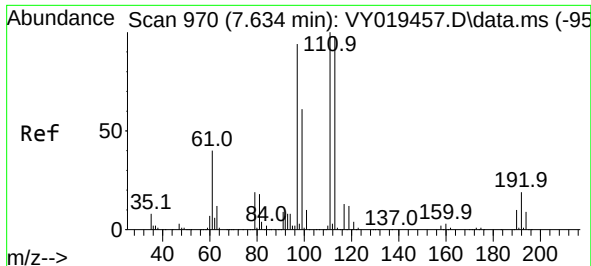
Ion Ratio Lower Upper

114 100

63 20.2 0.0 35.0

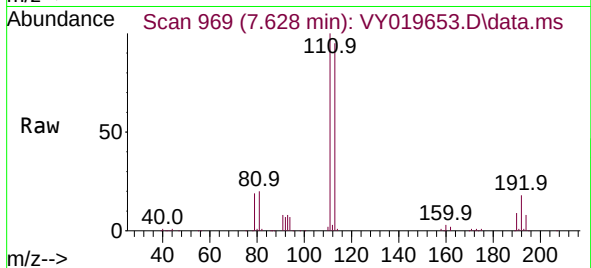
88 16.5 0.0 27.2



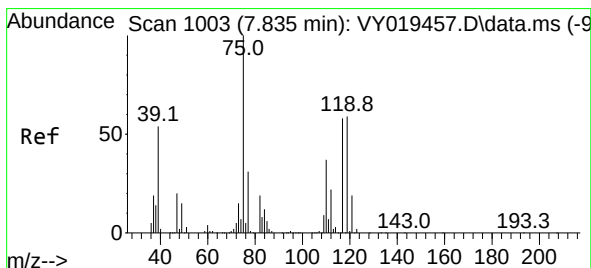
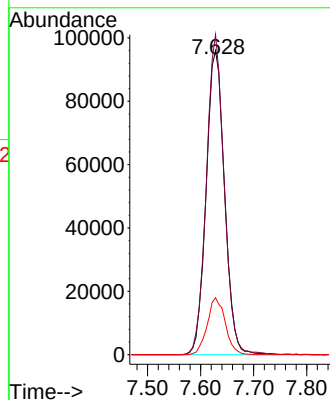
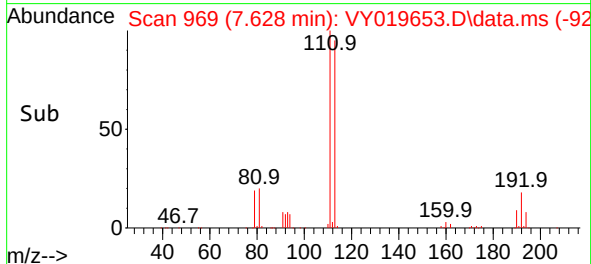


#35
Dibromofluoromethane
Concen: 55.945 ug/l
RT: 7.628 min Scan# 910
Delta R.T. -0.006 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

Instrument :
MSVOA_Y
ClientSampleId :

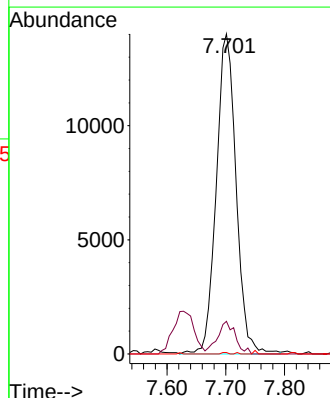
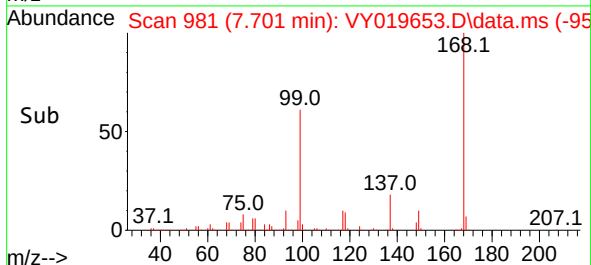
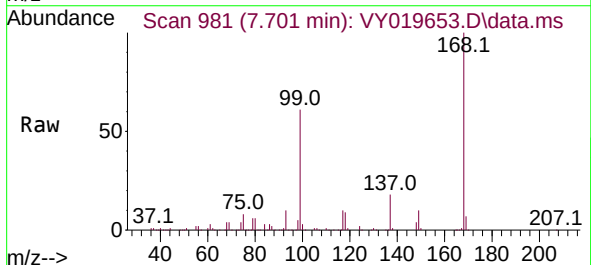


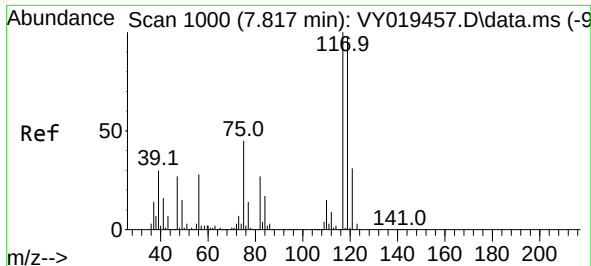
Tgt Ion:113 Resp: 231271
Ion Ratio Lower Upper
113 100
111 102.1 82.2 123.4
192 18.4 15.9 23.9



#36
1,1-Dichloropropene
Concen: 5.829 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.134 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

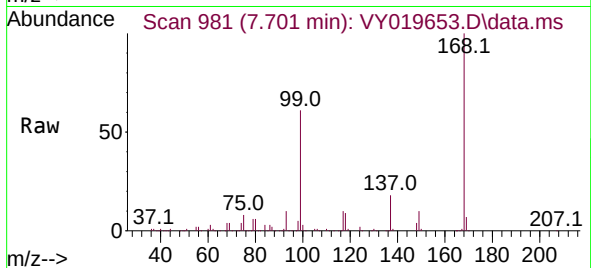
Tgt Ion: 75 Resp: 32791
Ion Ratio Lower Upper
75 100
110 9.2 19.0 57.0#
77 0.1 25.3 37.9#



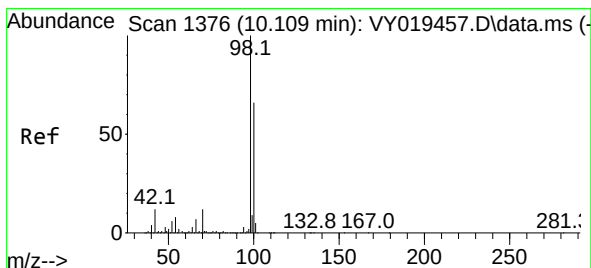
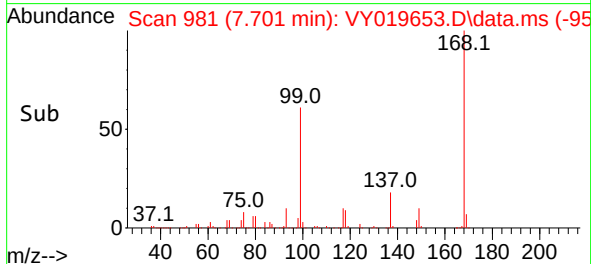
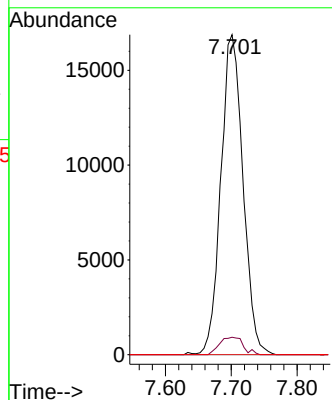


#38
Carbon Tetrachloride
Concen: 6.239 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

Instrument :
MSVOA_Y
ClientSampleId :

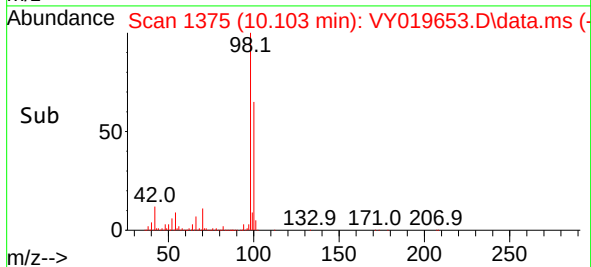
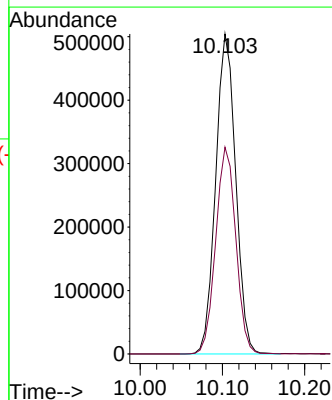
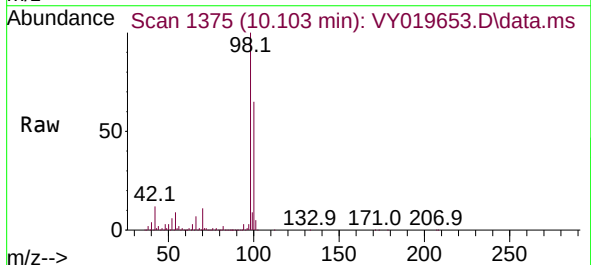


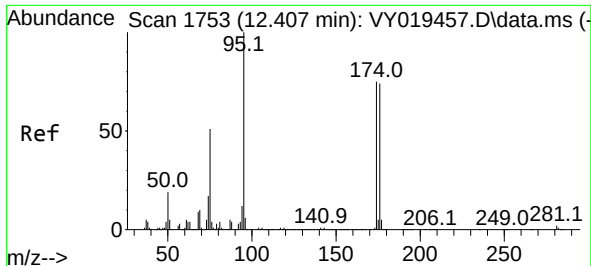
Tgt Ion:117 Resp: 39578
Ion Ratio Lower Upper
117 100
119 5.5 75.8 113.6#
121 0.0 24.0 36.0#



#50
Toluene-d8
Concen: 55.786 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

Tgt Ion: 98 Resp: 852981
Ion Ratio Lower Upper
98 100
100 65.0 52.0 78.0

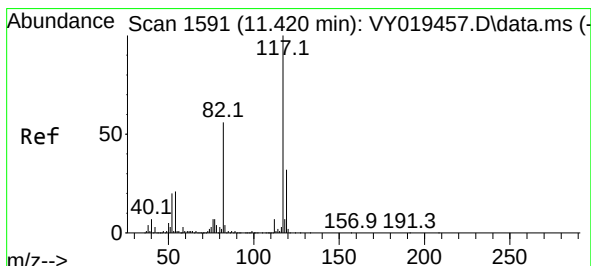
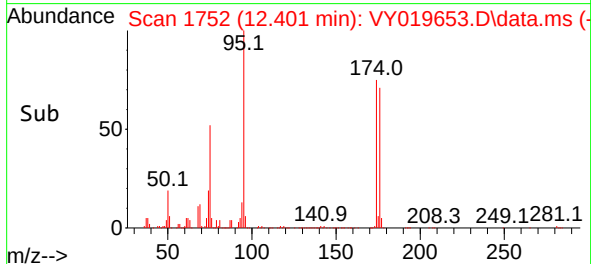
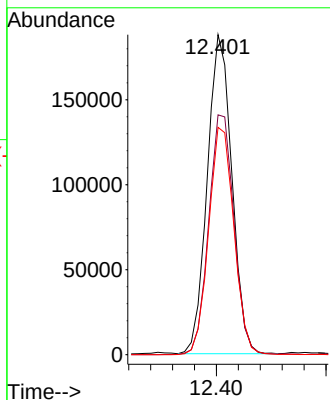
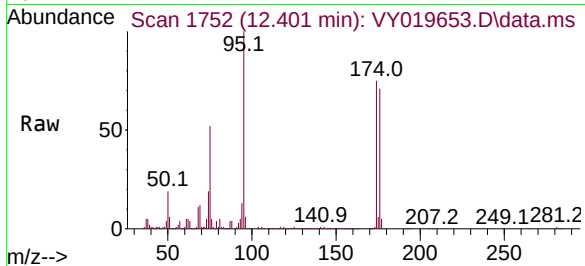




#62
4-Bromofluorobenzene
Concen: 49.748 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

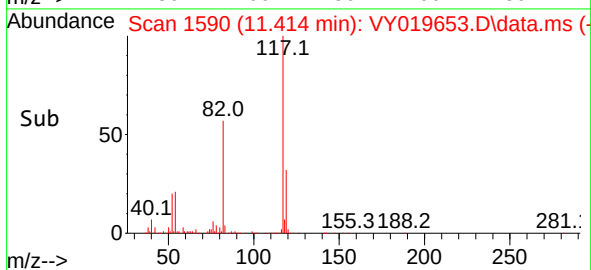
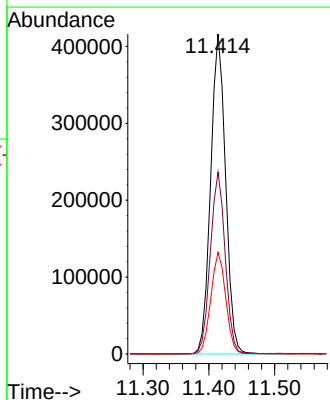
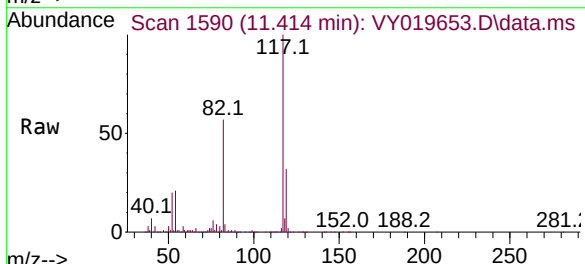
Instrument :
MSVOA_Y
ClientSampleId :

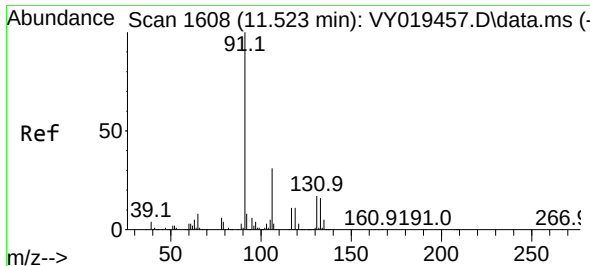
Tgt Ion: 95 Resp: 292483
Ion Ratio Lower Upper
95 100
174 77.4 0.0 175.6
176 73.3 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

Tgt Ion: 117 Resp: 657774
Ion Ratio Lower Upper
117 100
82 56.7 42.4 63.6
119 31.7 25.9 38.9





#67

Ethyl Benzene

Concen: 2.467 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Instrument :

MSVOA_Y

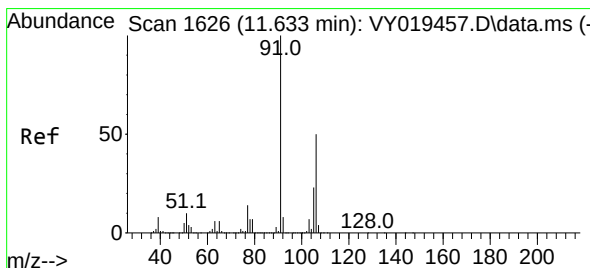
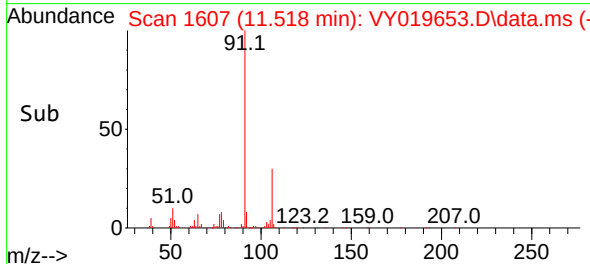
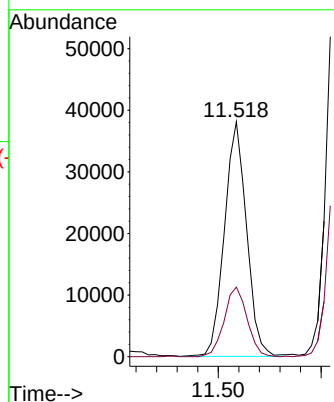
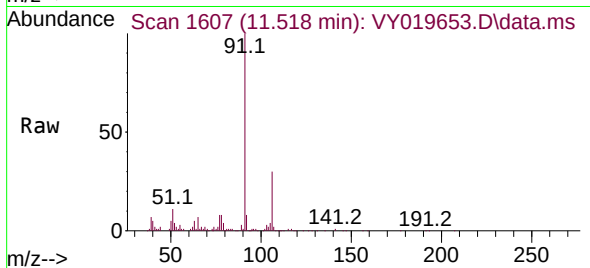
ClientSampleId :

Tgt Ion: 91 Resp: 56720

Ion Ratio Lower Upper

91 100

106 29.7 24.5 36.7



#68

m/p-Xylenes

Concen: 10.383 ug/l

RT: 11.621 min Scan# 1624

Delta R.T. -0.012 min

Lab File: VY019653.D

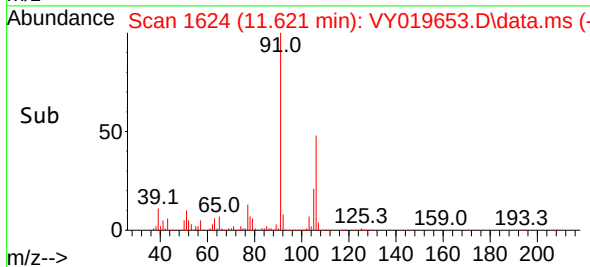
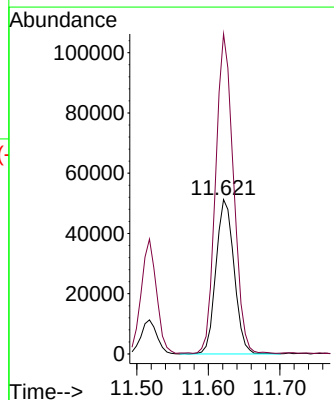
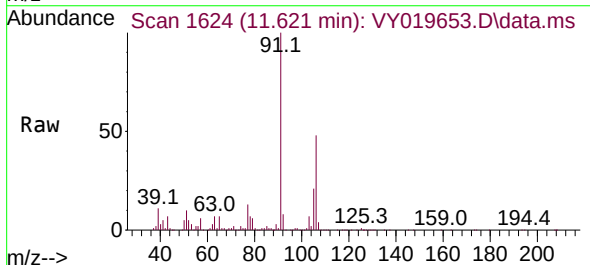
Acq: 20 Sep 2024 18:07

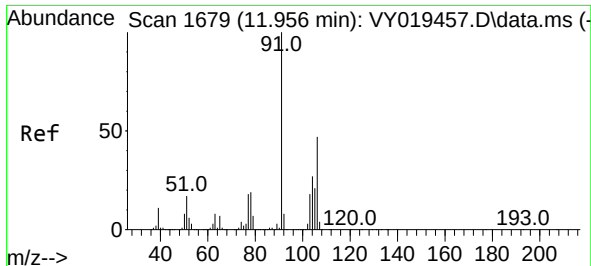
Tgt Ion:106 Resp: 90264

Ion Ratio Lower Upper

106 100

91 203.7 156.0 234.0

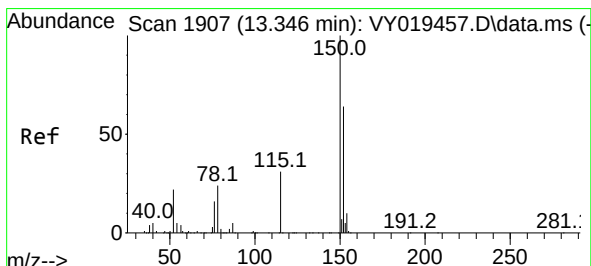
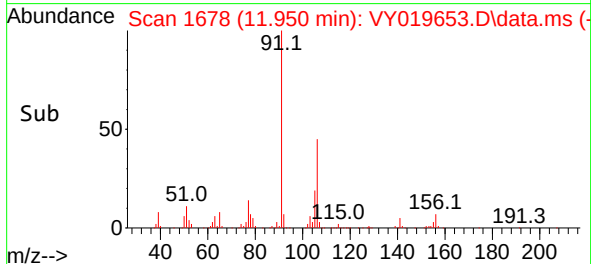
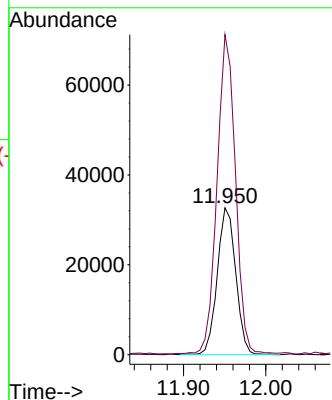
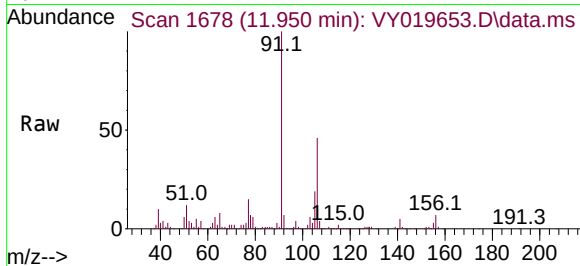




#69
o-Xylene
Concen: 6.021 ug/l
RT: 11.950 min Scan# 1190
Delta R.T. -0.006 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

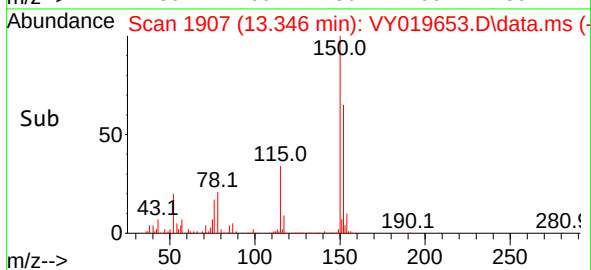
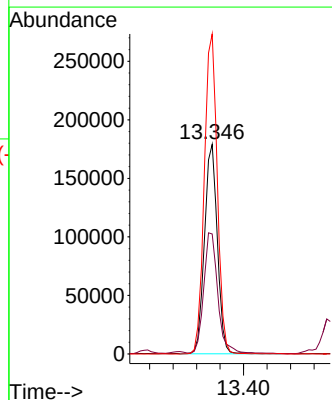
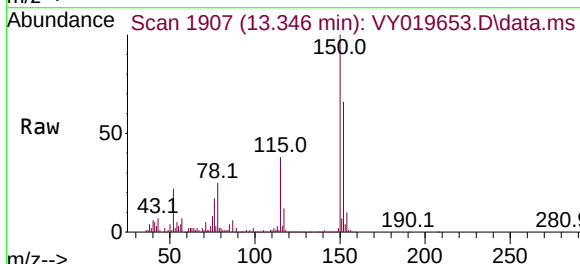
Instrument :
MSVOA_Y
ClientSampleId :

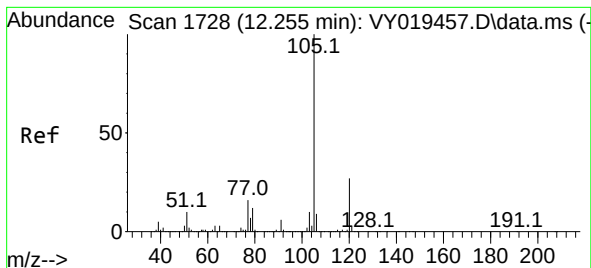
Tgt Ion:106 Resp: 51190
Ion Ratio Lower Upper
106 100
91 216.4 103.6 310.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

Tgt Ion:152 Resp: 272471
Ion Ratio Lower Upper
152 100
115 63.6 28.2 84.7
150 153.7 0.0 345.6





#73

Isopropylbenzene

Concen: 1.375 ug/l

RT: 12.255 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Instrument :

MSVOA_Y

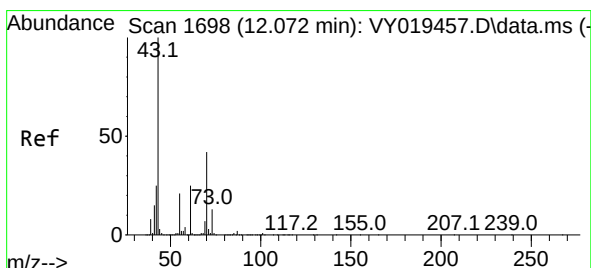
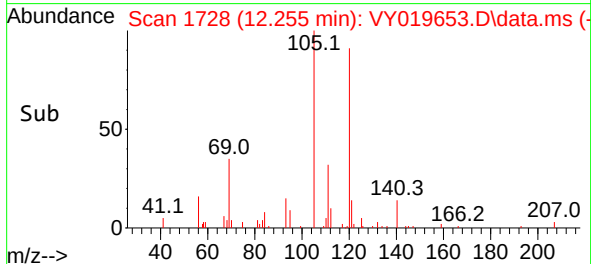
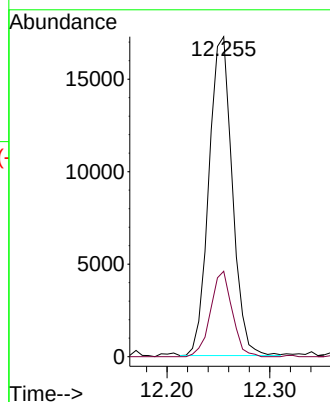
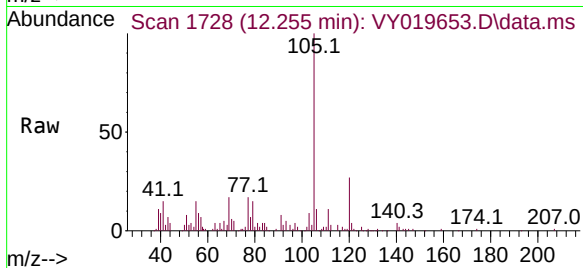
ClientSampleId :

Tgt Ion:105 Resp: 27186

Ion Ratio Lower Upper

105 100

120 24.8 13.4 40.1



#74

N-ethyl acetate

Concen: 2.222 ug/l

RT: 12.048 min Scan# 1694

Delta R.T. -0.024 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Tgt Ion: 43 Resp: 11945

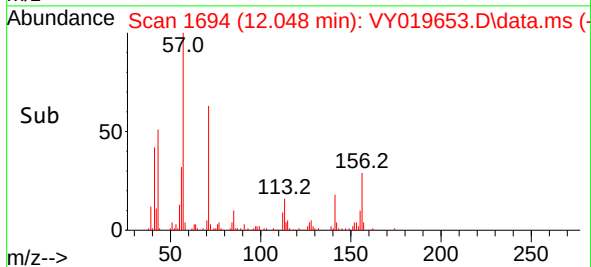
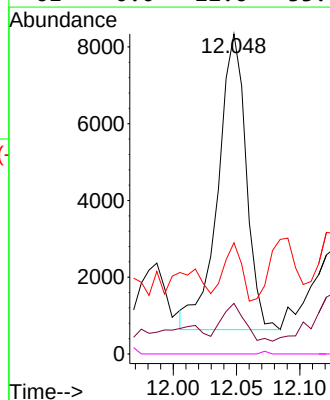
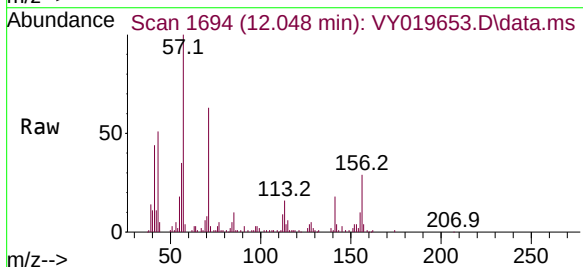
Ion Ratio Lower Upper

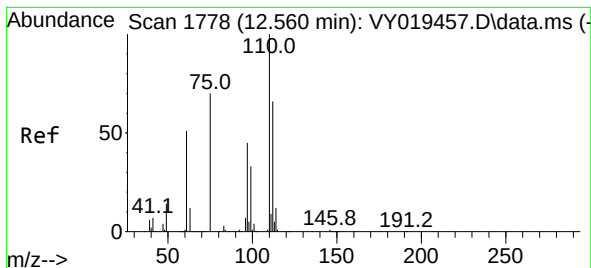
43 100

70 10.1 41.4 62.2#

55 12.3 23.3 34.9#

61 0.0 22.6 33.8#





#76

1,2,3-Trichloropropane

Concen: 60.191 ug/l

RT: 12.401 min Scan# 11

Delta R.T. -0.158 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Instrument :

MSVOA_Y

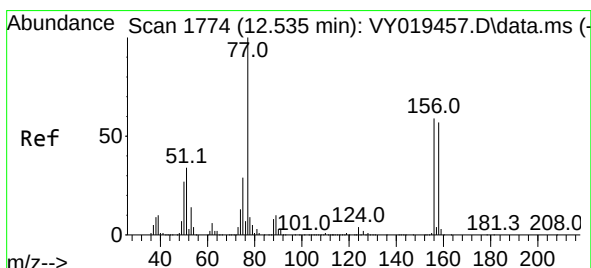
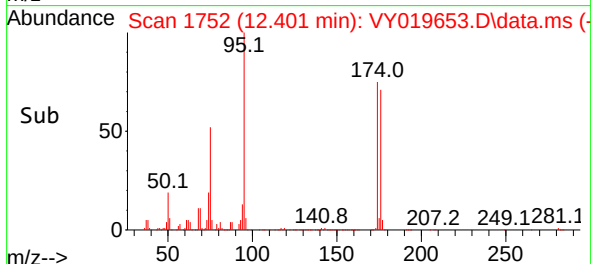
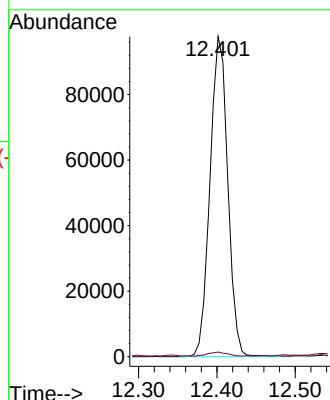
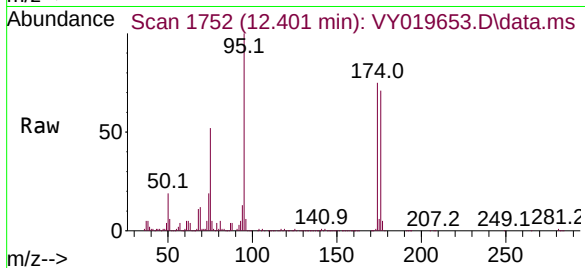
ClientSampleId :

Tgt Ion: 75 Resp: 153718

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#77

Bromobenzene

Concen: 13.768 ug/l

RT: 12.590 min Scan# 1783

Delta R.T. 0.055 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

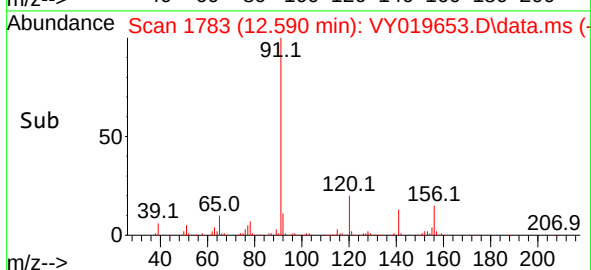
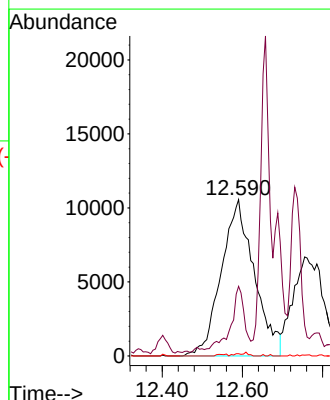
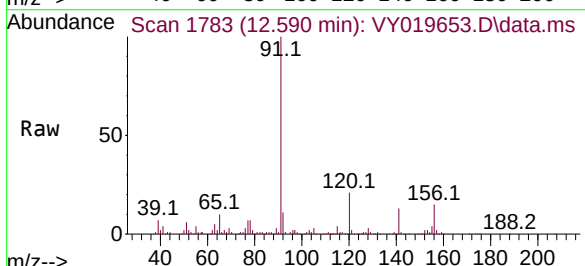
Tgt Ion:156 Resp: 60361

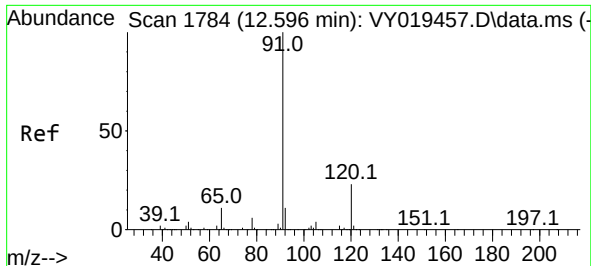
Ion Ratio Lower Upper

156 100

77 15.8 87.1 261.3#

158 0.7 48.6 145.9#

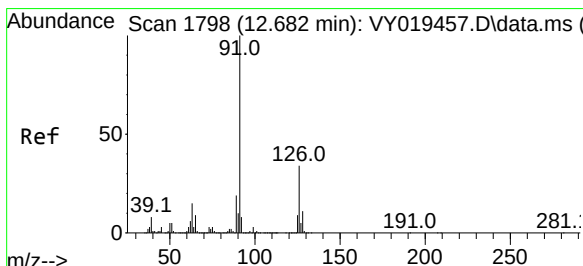
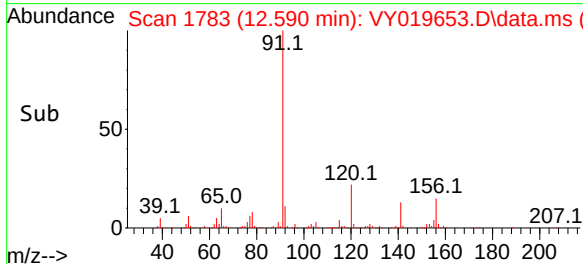
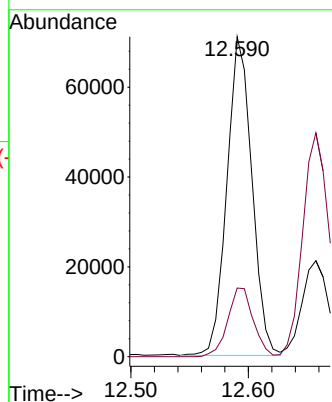
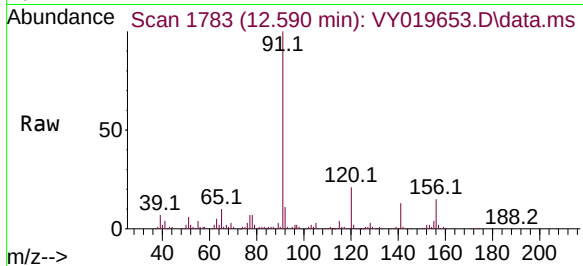




#78
n-propylbenzene
Concen: 4.476 ug/l
RT: 12.590 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

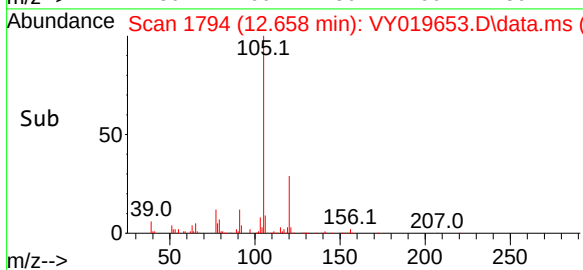
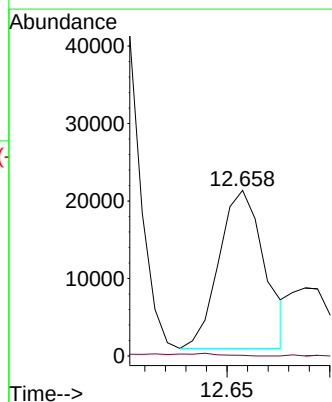
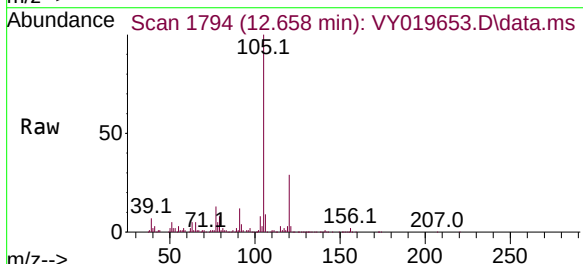
Instrument :
MSVOA_Y
ClientSampleId :

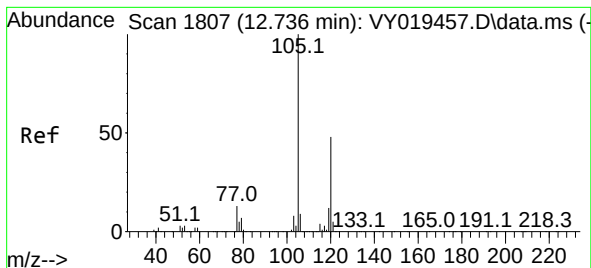
Tgt Ion: 91 Resp: 104861
Ion Ratio Lower Upper
91 100
120 22.1 11.5 34.4



#79
2-Chlorotoluene
Concen: 2.295 ug/l
RT: 12.658 min Scan# 1794
Delta R.T. -0.024 min
Lab File: VY019653.D
Acq: 20 Sep 2024 18:07

Tgt Ion: 91 Resp: 31333
Ion Ratio Lower Upper
91 100
126 1.4 17.8 53.5#





#80

1,3,5-Trimethylbenzene

Concen: 7.282 ug/l

RT: 12.737 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Instrument :

MSVOA_Y

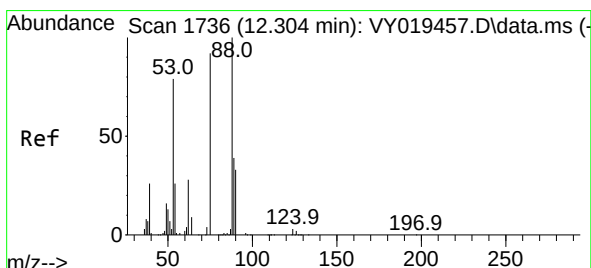
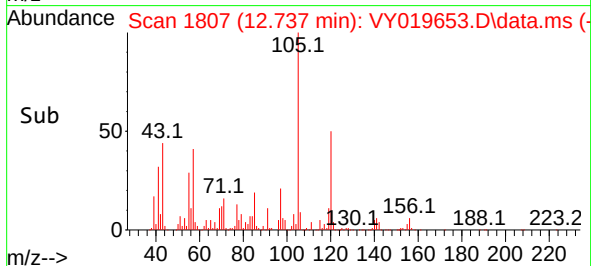
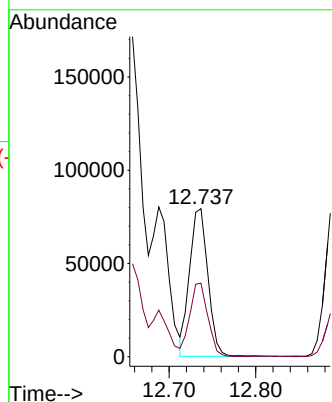
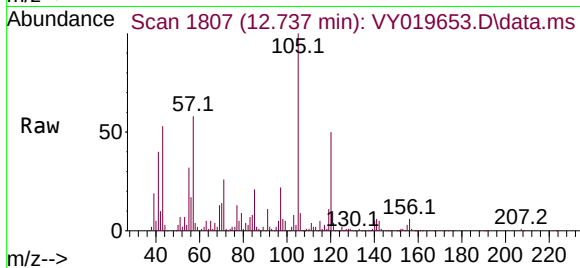
ClientSampleId :

Tgt Ion:105 Resp: 117012

Ion Ratio Lower Upper

105 100

120 48.7 25.1 75.2



#81

trans-1,4-Dichloro-2-butene

Concen: 115.549 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. 0.098 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

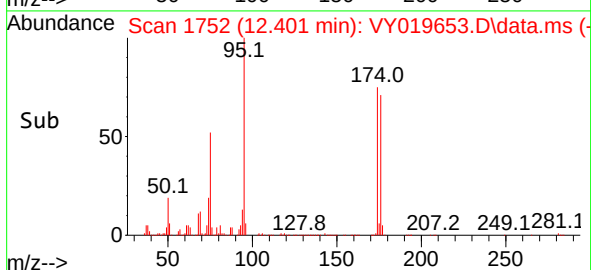
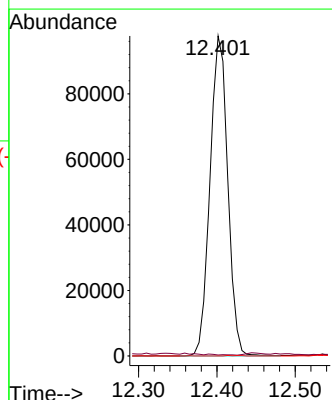
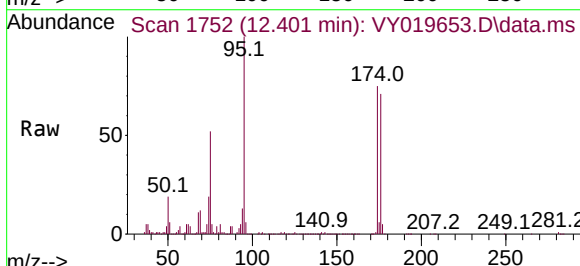
Tgt Ion: 75 Resp: 153718

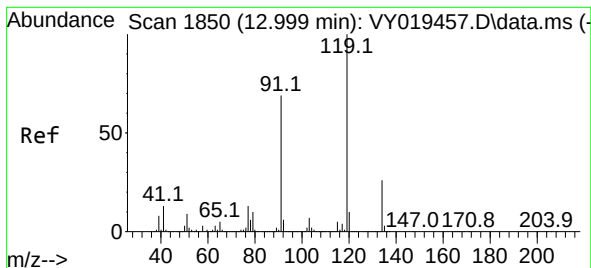
Ion Ratio Lower Upper

75 100

53 0.3 66.8 100.2#

89 0.0 35.8 53.6#





#83

tert-Butylbenzene

Concen: 3.666 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. 0.043 min

Lab File: VY019653.D

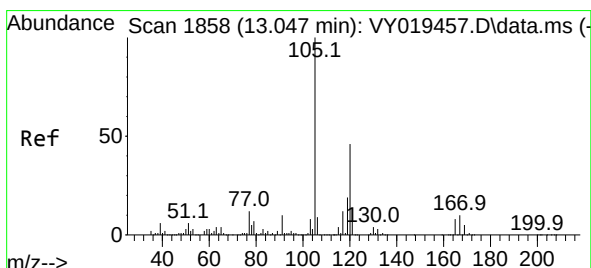
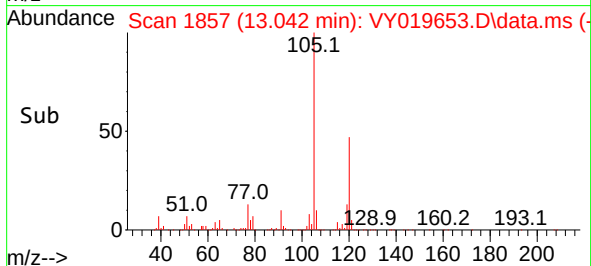
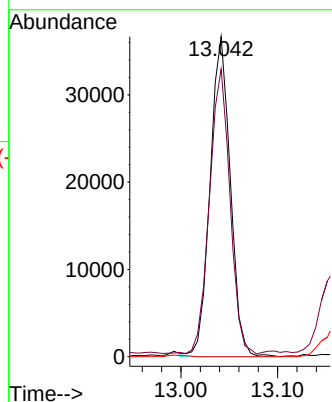
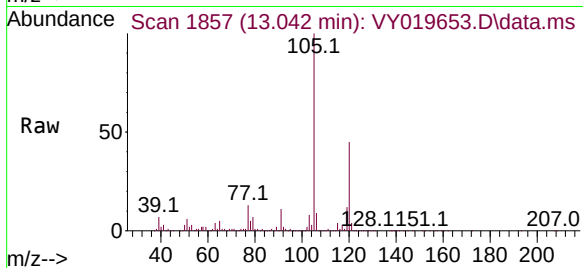
Acq: 20 Sep 2024 18:07

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:119	Resp:	53330
Ion Ratio	Lower	Upper
119	100	
91	89.9	31.3 93.8
134	0.0	13.4 40.1#



#84

1,2,4-Trimethylbenzene

Concen: 28.107 ug/l

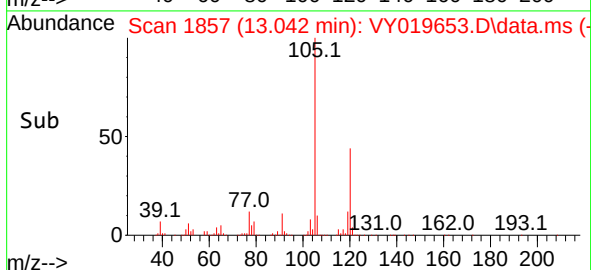
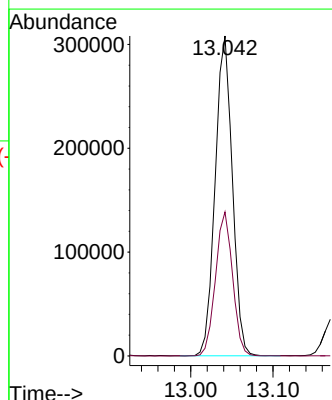
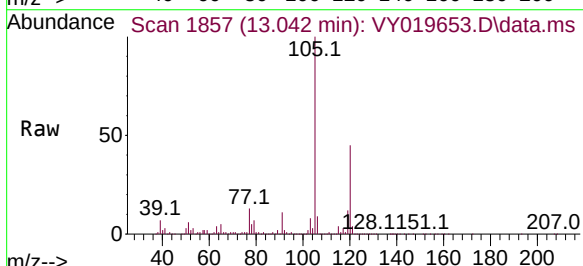
RT: 13.042 min Scan# 1857

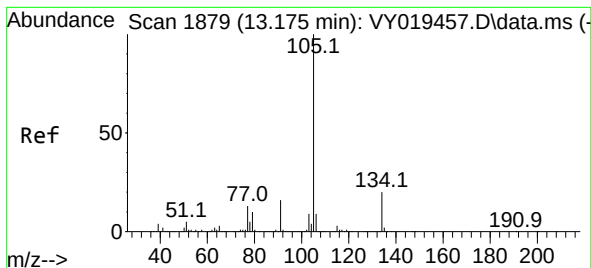
Delta R.T. -0.006 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Tgt Ion:105	Resp:	447087
Ion Ratio	Lower	Upper
105	100	
120	44.9	23.2 69.6





#85

sec-Butylbenzene

Concen: 2.463 ug/l

RT: 13.170 min Scan# 1879

Delta R.T. -0.006 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Instrument :

MSVOA_Y

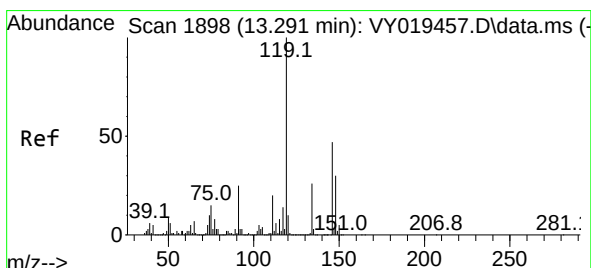
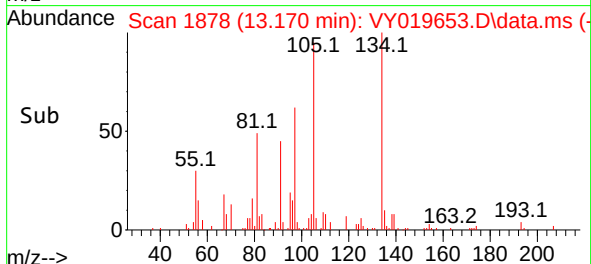
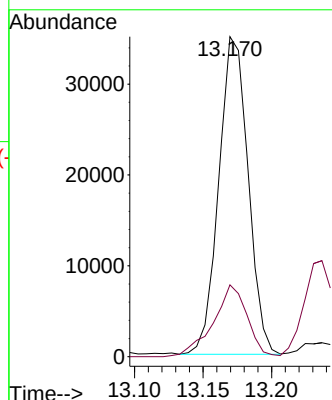
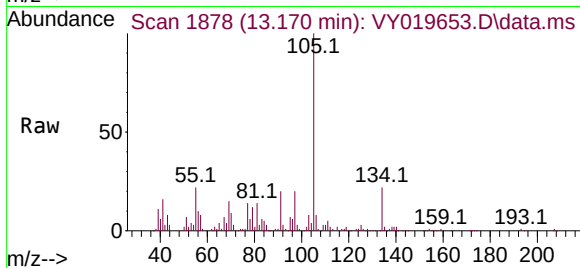
ClientSampleId :

Tgt Ion:105 Resp: 52063

Ion Ratio Lower Upper

105 100

134 26.1 10.1 30.1



#86

p-Isopropyltoluene

Concen: 1.728 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

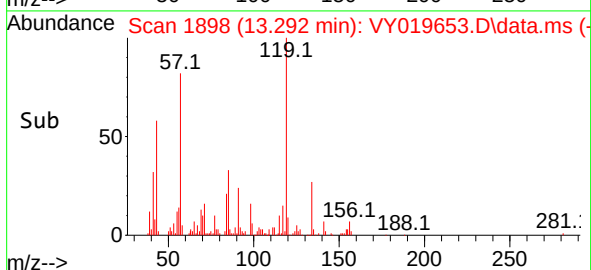
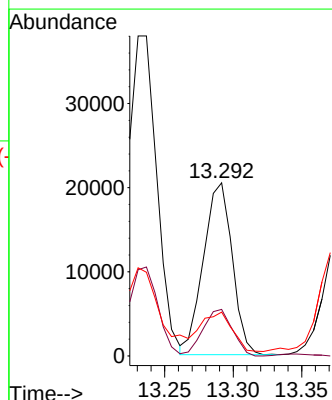
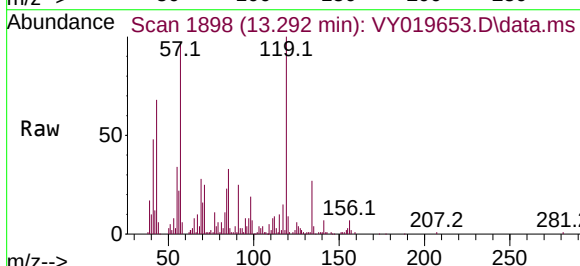
Tgt Ion:119 Resp: 29873

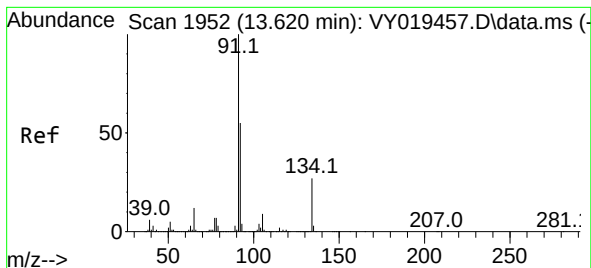
Ion Ratio Lower Upper

119 100

134 27.7 13.1 39.3

91 24.4 10.7 32.1





#89

n-Butylbenzene

Concen: 3.355 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. -0.006 min

Lab File: VY019653.D

Acq: 20 Sep 2024 18:07

Instrument :

MSVOA_Y

ClientSampleId :

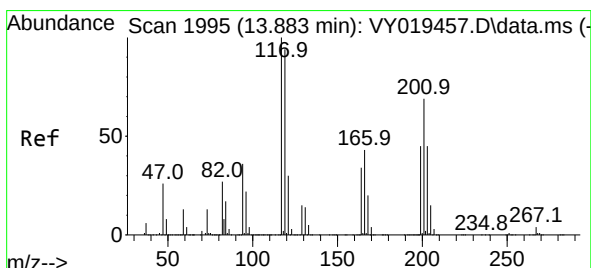
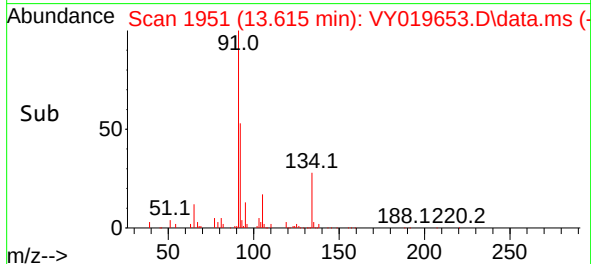
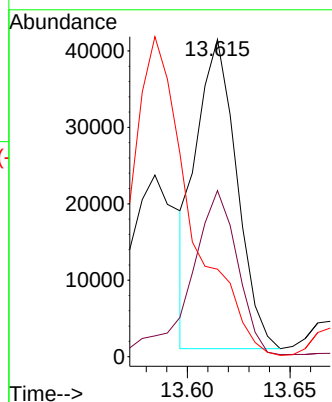
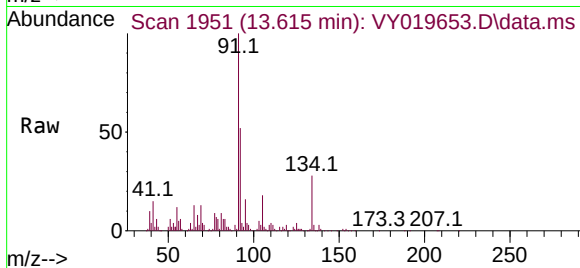
Tgt Ion: 91 Resp: 55451

Ion Ratio Lower Upper

91 100

92 60.1 26.6 79.7

134 0.0 12.9 38.7#



#90

Hexachloroethane

Concen: 4.688 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.006 min

Lab File: VY019653.D

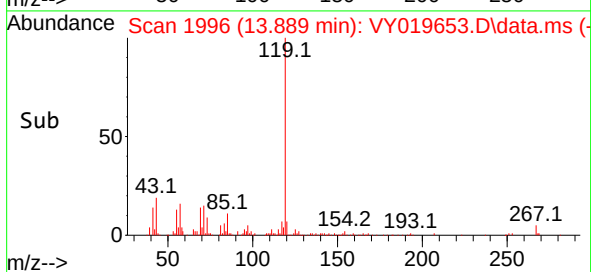
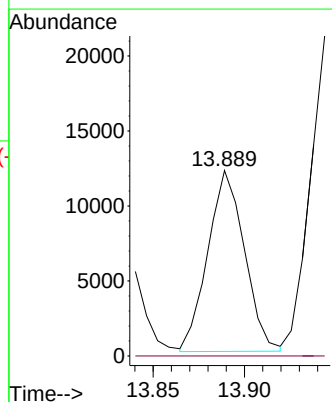
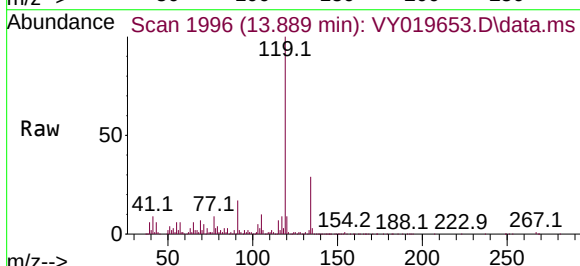
Acq: 20 Sep 2024 18:07

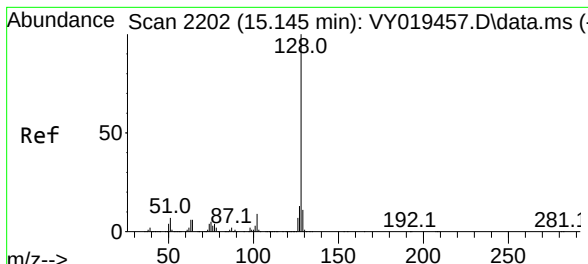
Tgt Ion: 117 Resp: 16867

Ion Ratio Lower Upper

117 100

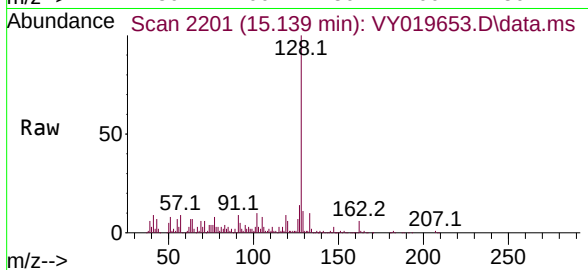
201 0.0 37.4 112.2#





#95
 Naphthalene
 Concen: 10.806 ug/l
 RT: 15.139 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VY019653.D
 Acq: 20 Sep 2024 18:07

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:	128	Resp:	100051
Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.6	16.0
129	12.5	8.6	13.0

