

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092024\
 Data File : VY019651.D
 Acq On : 20 Sep 2024 17:20
 Operator : SY/MD
 Sample : P4103-10
 Misc : 5.09g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-14-7.5-10A

Quant Time: Sep 21 04:20:23 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)

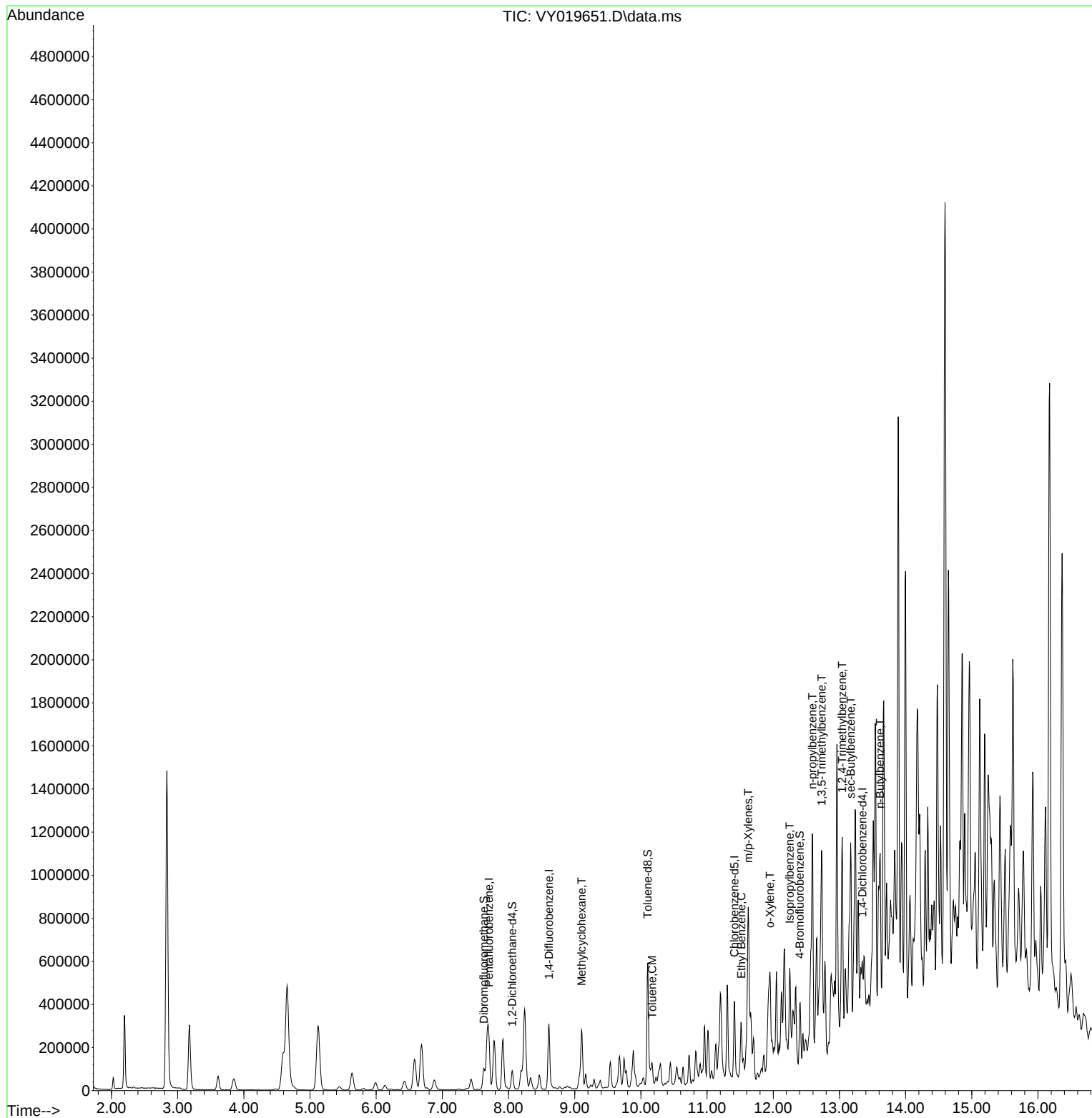
Internal Standards						
1) Pentafluorobenzene	7.701	168	132956	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.610	114	225675	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	186846	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	80610	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	66593	54.090	ug/l	0.00
Spiked Amount	50.000	Range 50 - 163	Recovery	= 108.180%		
35) Dibromofluoromethane	7.628	113	69408	54.245	ug/l	0.00
Spiked Amount	50.000	Range 54 - 147	Recovery	= 108.480%		
50) Toluene-d8	10.103	98	263428	55.661	ug/l	0.00
Spiked Amount	50.000	Range 58 - 134	Recovery	= 111.320%		
62) 4-Bromofluorobenzene	12.402	95	87096	47.861	ug/l	0.00
Spiked Amount	50.000	Range 29 - 146	Recovery	= 95.720%		
Target Compounds						
					Qvalue	
39) Methylcyclohexane	9.103	83	102561	44.264	ug/l	# 88
52) Toluene	10.170	92	43388	12.580	ug/l	100
67) Ethyl Benzene	11.518	91	154567	23.668	ug/l	98
68) m/p-Xylenes	11.621	106	223846	90.650	ug/l	94
69) o-Xylene	11.950	106	85236	35.295	ug/l	95
73) Isopropylbenzene	12.249	105	247354	42.297	ug/l	99
78) n-propylbenzene	12.591	91	720189	103.901	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	112985	23.765	ug/l	96
84) 1,2,4-Trimethylbenzene	13.042	105	440628	93.631	ug/l	98
85) sec-Butylbenzene	13.170	105	442579	70.785	ug/l	89
89) n-Butylbenzene	13.615	91	440080	89.989	ug/l	# 78

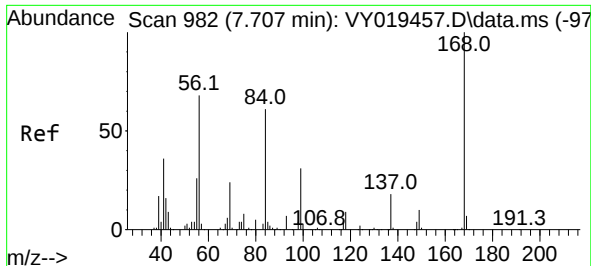
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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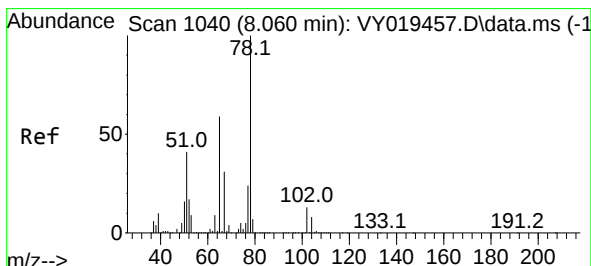
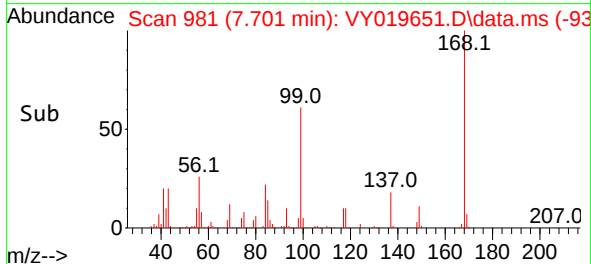
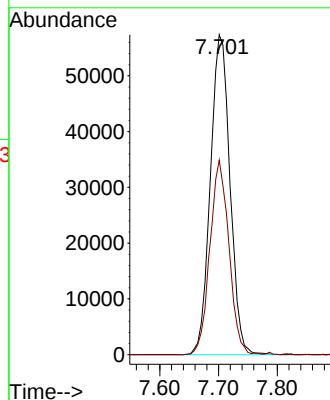
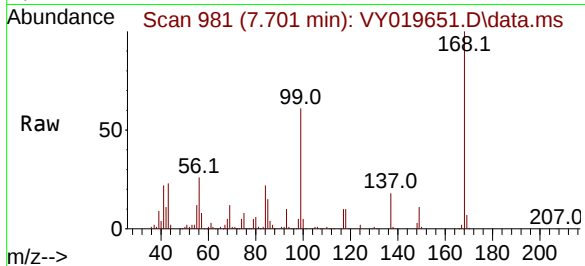




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY019651.D
Acq: 20 Sep 2024 17:20

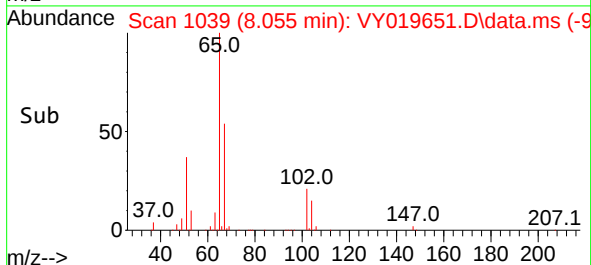
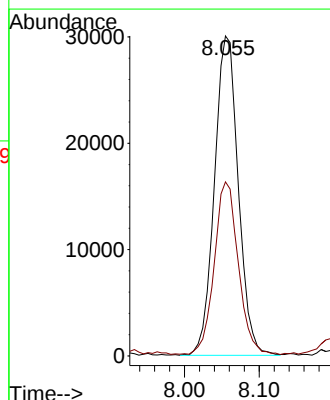
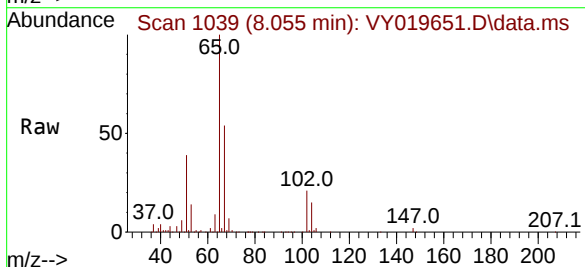
Instrument :
MSVOA_Y
ClientSampleId :
WC-14-7.5-10A

Tgt Ion:168 Resp: 132956
Ion Ratio Lower Upper
168 100
99 60.8 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 54.090 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY019651.D
Acq: 20 Sep 2024 17:20

Tgt Ion: 65 Resp: 66593
Ion Ratio Lower Upper
65 100
67 54.5 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY019651.D

Acq: 20 Sep 2024 17:20

Instrument :

MSVOA_Y

ClientSampleId :

WC-14-7.5-10A

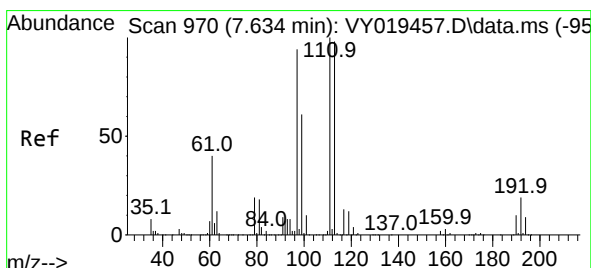
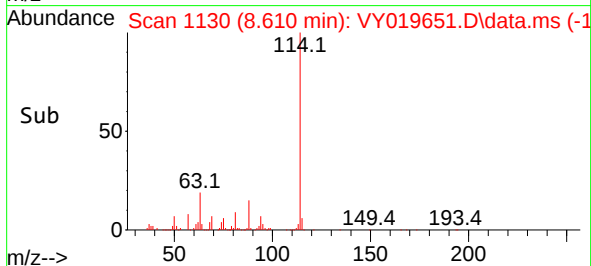
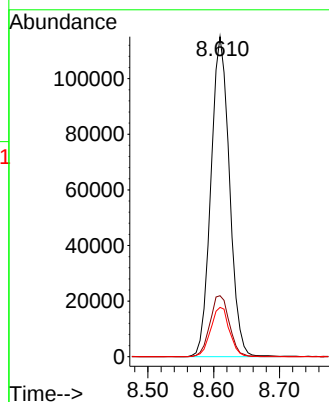
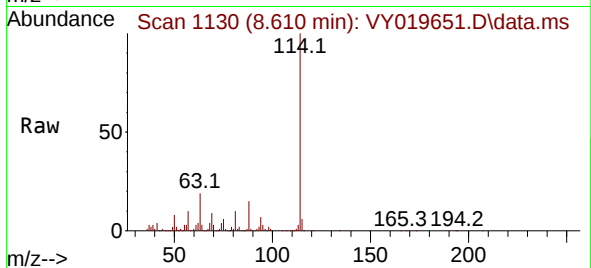
Tgt Ion:114 Resp: 225675

Ion Ratio Lower Upper

114 100

63 19.1 0.0 35.0

88 15.4 0.0 27.2



#35

Dibromofluoromethane

Concen: 54.245 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY019651.D

Acq: 20 Sep 2024 17:20

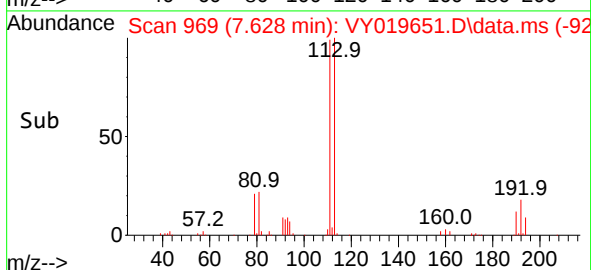
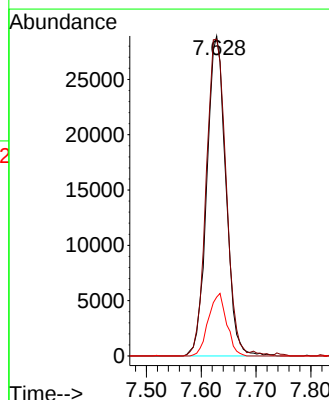
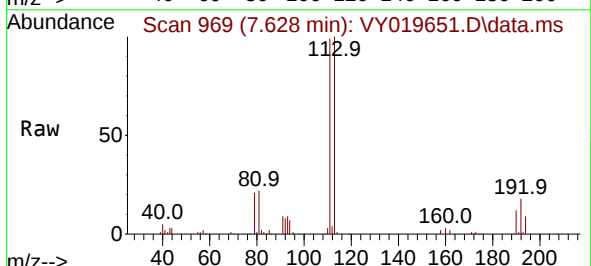
Tgt Ion:113 Resp: 69408

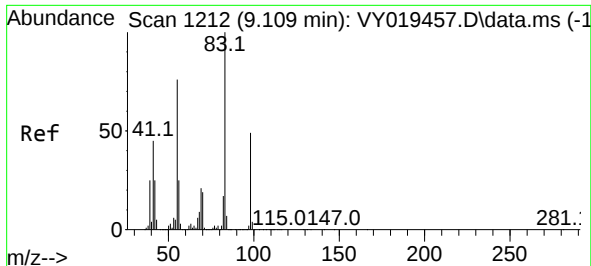
Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.4

192 18.8 15.9 23.9





#39

Methylcyclohexane

Concen: 44.264 ug/l

RT: 9.103 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY019651.D

Acq: 20 Sep 2024 17:20

Instrument :

MSVOA_Y

ClientSampleId :

WC-14-7.5-10A

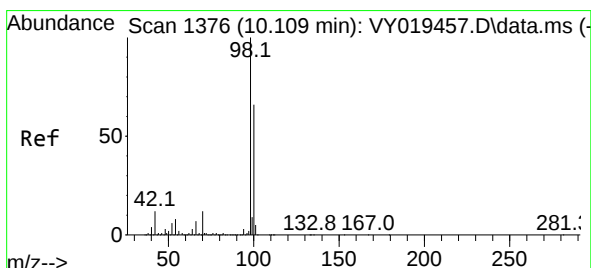
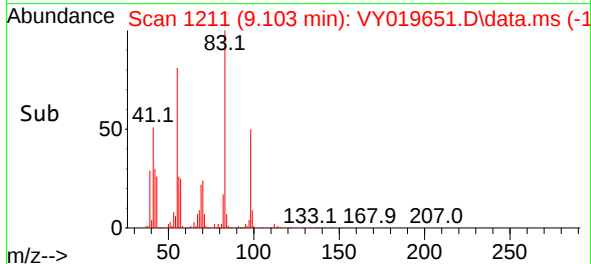
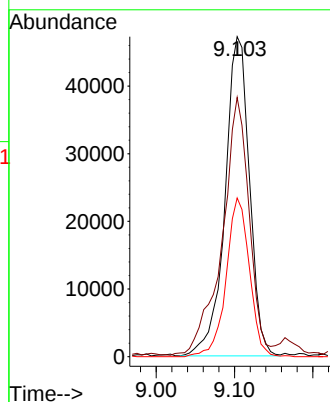
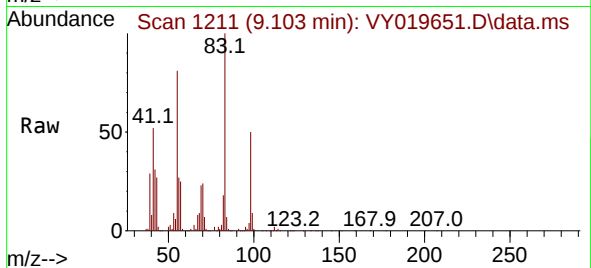
Tgt Ion: 83 Resp: 102561

Ion Ratio Lower Upper

83 100

55 80.1 51.5 77.3#

98 49.7 40.5 60.7



#50

Toluene-d8

Concen: 55.661 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY019651.D

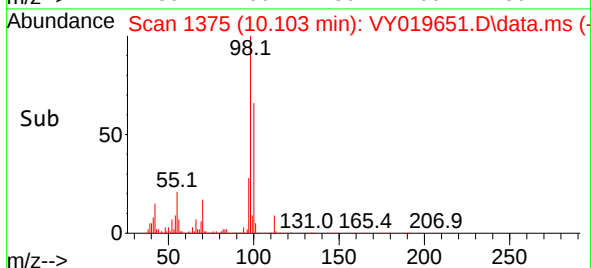
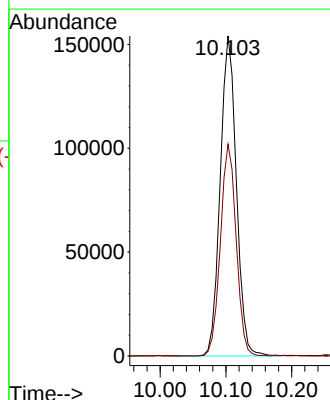
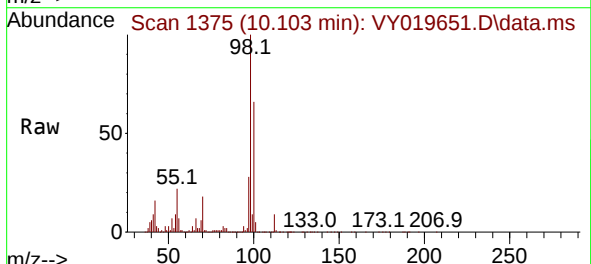
Acq: 20 Sep 2024 17:20

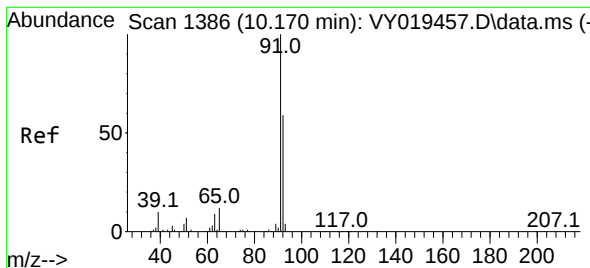
Tgt Ion: 98 Resp: 263428

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0





#52

Toluene

Concen: 12.580 ug/l

RT: 10.170 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019651.D

Acq: 20 Sep 2024 17:20

Instrument :

MSVOA_Y

ClientSampleId :

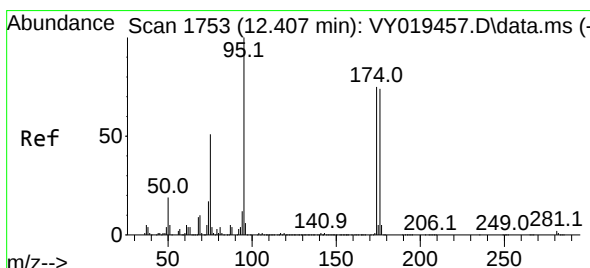
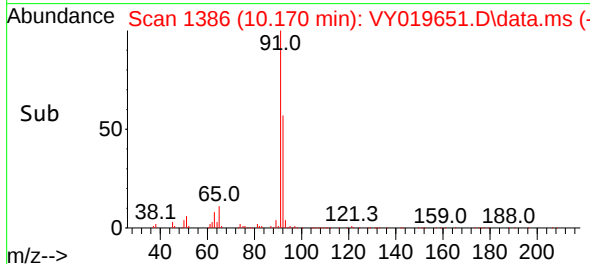
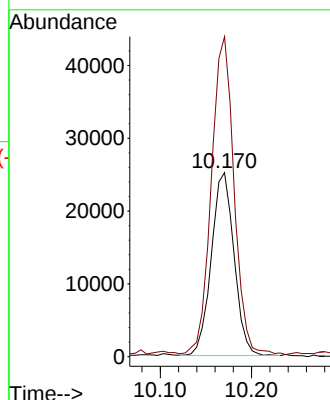
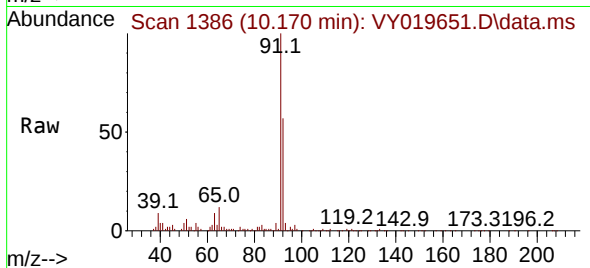
WC-14-7.5-10A

Tgt Ion: 92 Resp: 43388

Ion Ratio Lower Upper

92 100

91 173.2 139.0 208.6



#62

4-Bromofluorobenzene

Concen: 47.861 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY019651.D

Acq: 20 Sep 2024 17:20

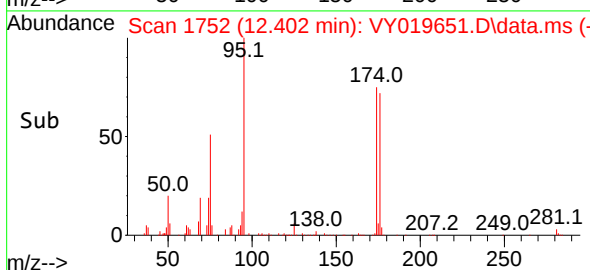
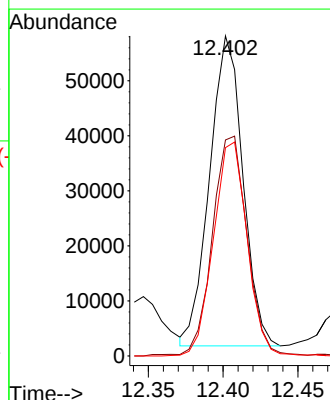
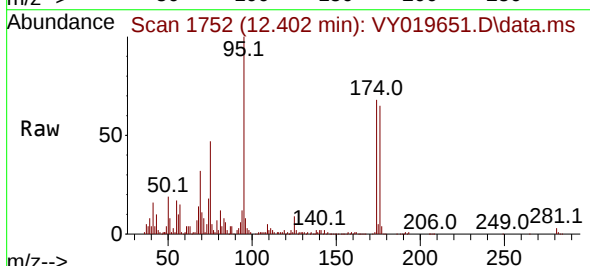
Tgt Ion: 95 Resp: 87096

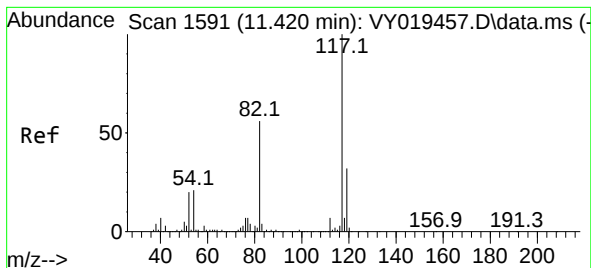
Ion Ratio Lower Upper

95 100

174 74.1 0.0 175.6

176 70.0 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY019651.D

Acq: 20 Sep 2024 17:20

Instrument :

MSVOA_Y

ClientSampleId :

WC-14-7.5-10A

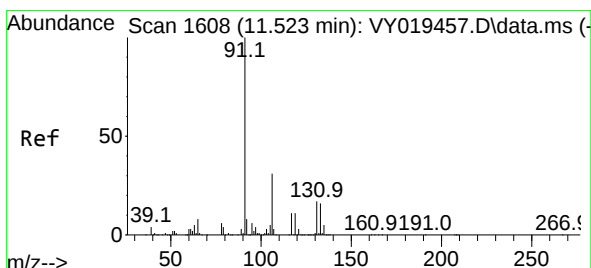
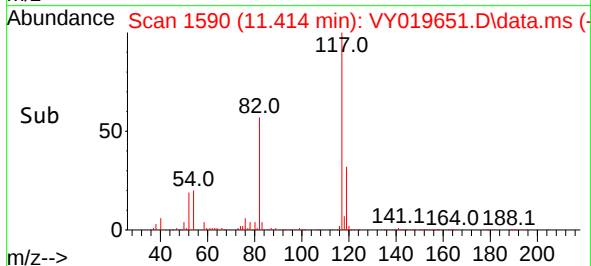
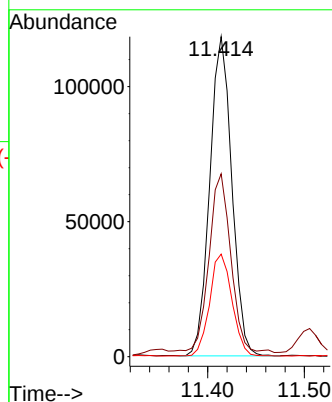
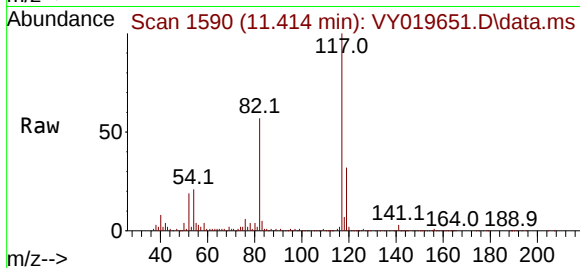
Tgt Ion:117 Resp: 186846

Ion Ratio Lower Upper

117 100

82 56.0 42.4 63.6

119 31.9 25.9 38.9



#67

Ethyl Benzene

Concen: 23.668 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY019651.D

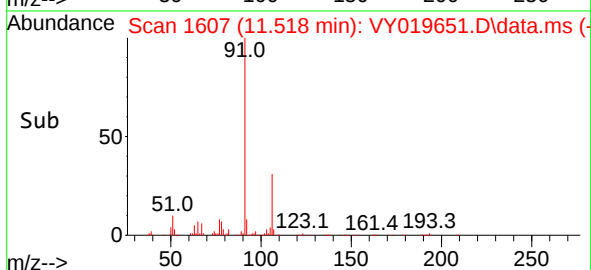
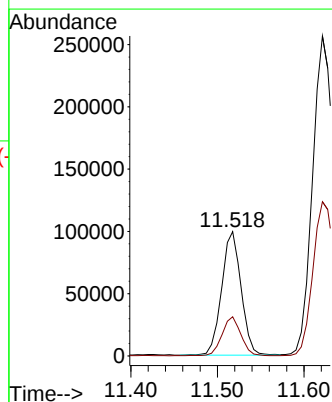
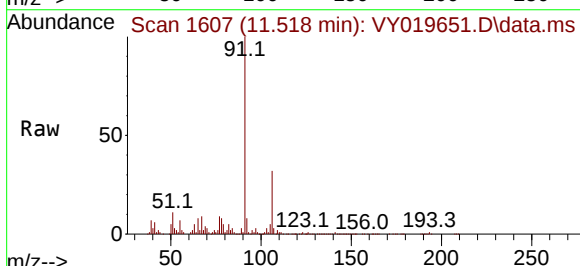
Acq: 20 Sep 2024 17:20

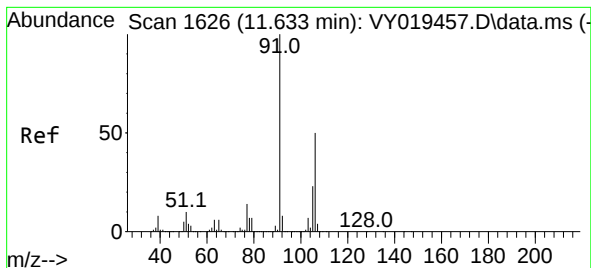
Tgt Ion: 91 Resp: 154567

Ion Ratio Lower Upper

91 100

106 31.5 24.5 36.7





#68

m/p-Xylenes

Concen: 90.650 ug/l

RT: 11.621 min Scan# 1

Delta R.T. -0.012 min

Lab File: VY019651.D

Acq: 20 Sep 2024 17:20

Instrument :

MSVOA_Y

ClientSampleId :

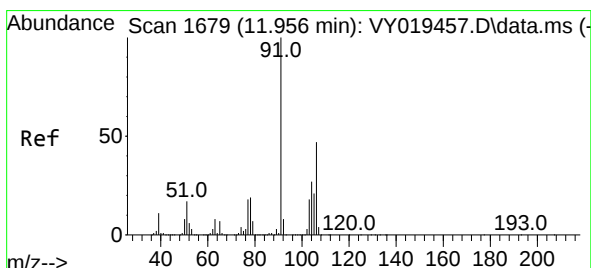
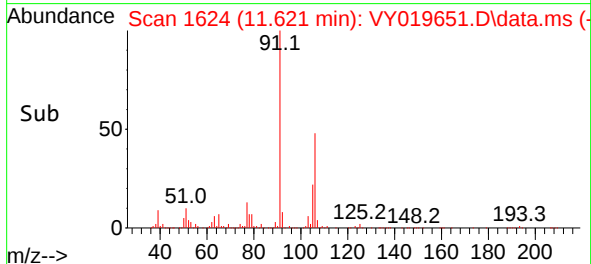
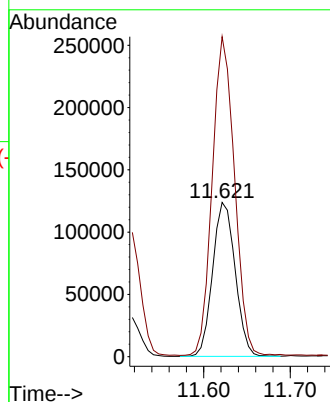
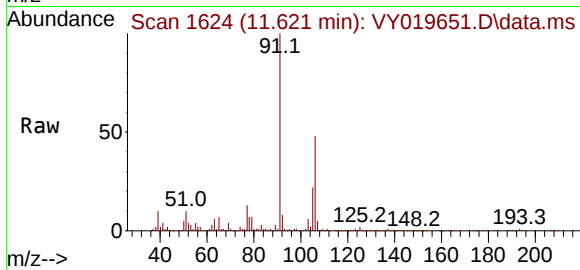
WC-14-7.5-10A

Tgt Ion:106 Resp: 223846

Ion Ratio Lower Upper

106 100

91 204.1 156.0 234.0



#69

o-Xylene

Concen: 35.295 ug/l

RT: 11.950 min Scan# 1678

Delta R.T. -0.006 min

Lab File: VY019651.D

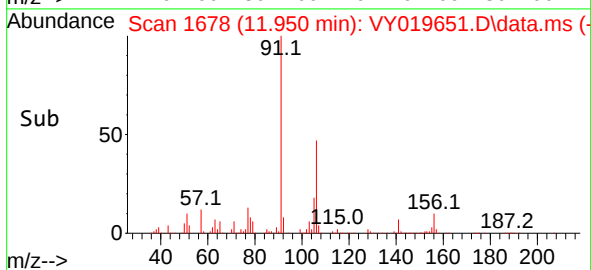
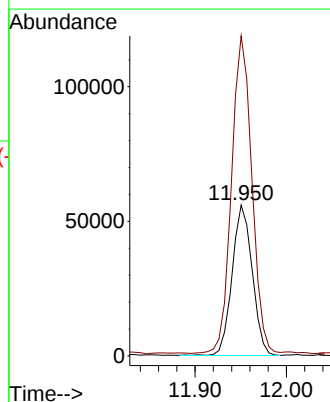
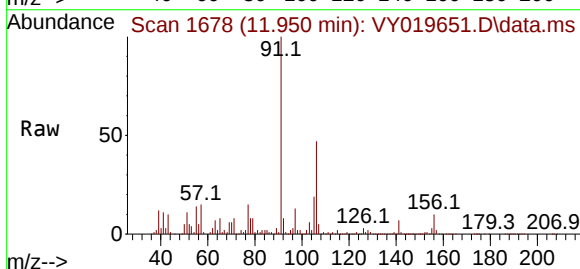
Acq: 20 Sep 2024 17:20

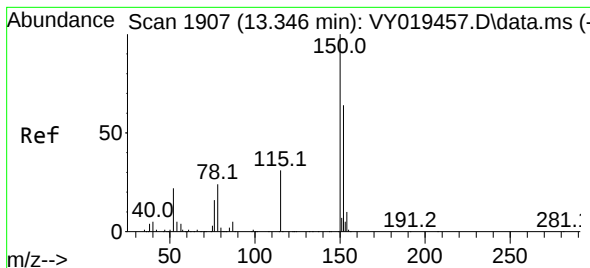
Tgt Ion:106 Resp: 85236

Ion Ratio Lower Upper

106 100

91 215.4 103.6 310.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019651.D

Acq: 20 Sep 2024 17:20

Instrument :

MSVOA_Y

ClientSampleId :

WC-14-7.5-10A

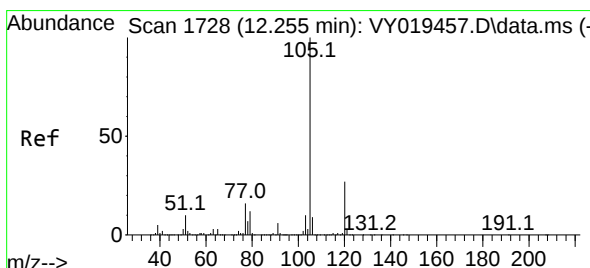
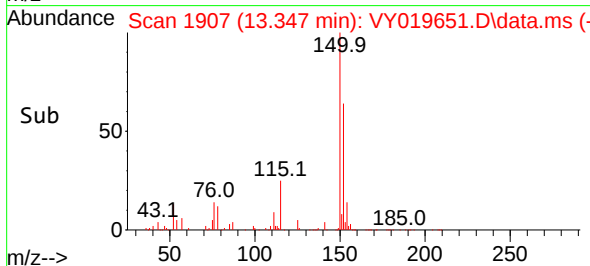
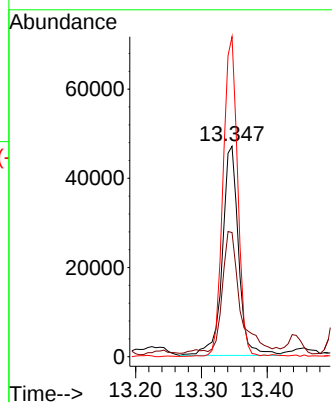
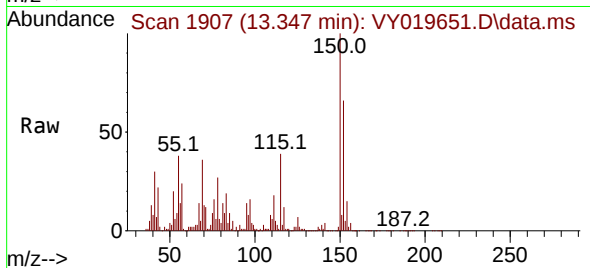
Tgt Ion:152 Resp: 80610

Ion Ratio Lower Upper

152 100

115 61.3 28.2 84.7

150 137.3 0.0 345.6



#73

Isopropylbenzene

Concen: 42.297 ug/l

RT: 12.249 min Scan# 1727

Delta R.T. -0.006 min

Lab File: VY019651.D

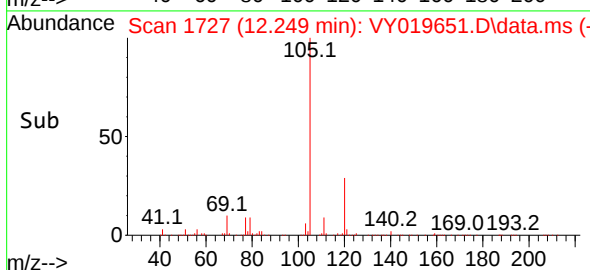
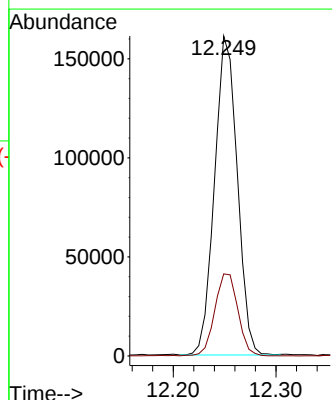
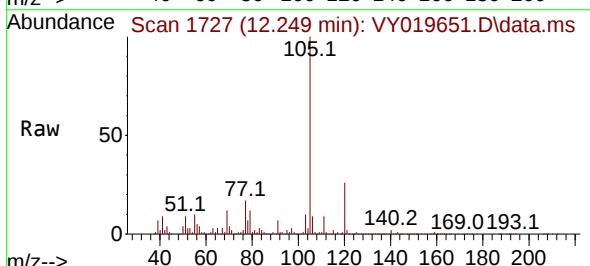
Acq: 20 Sep 2024 17:20

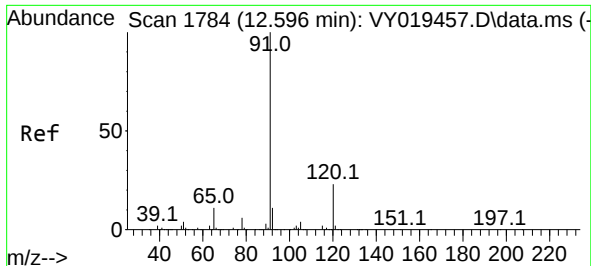
Tgt Ion:105 Resp: 247354

Ion Ratio Lower Upper

105 100

120 26.0 13.4 40.1

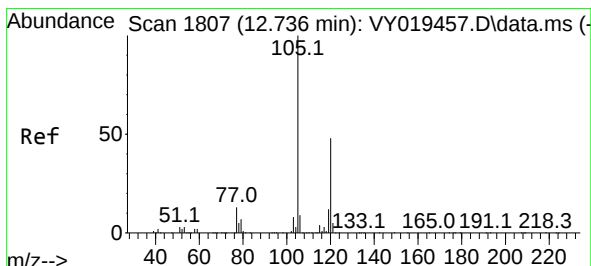
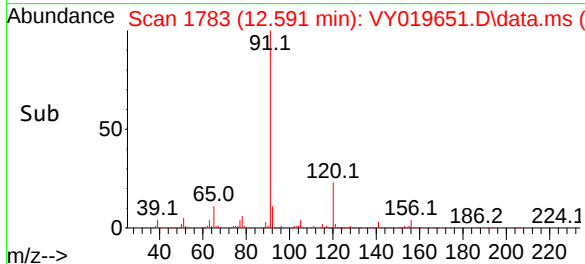
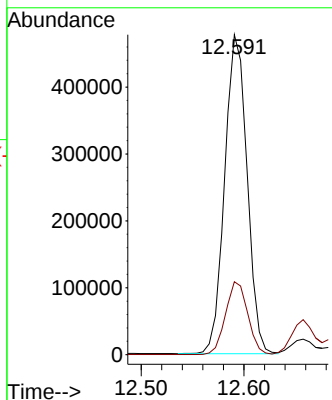
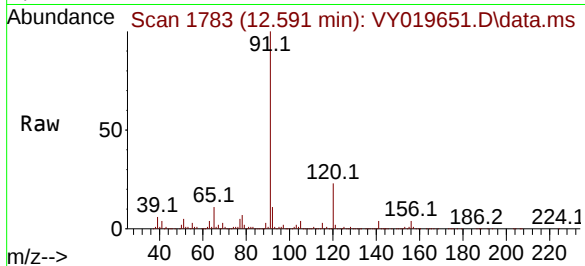




#78
n-propylbenzene
Concen: 103.901 ug/l
RT: 12.591 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VY019651.D
Acq: 20 Sep 2024 17:20

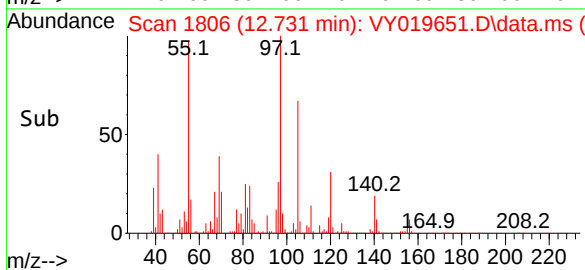
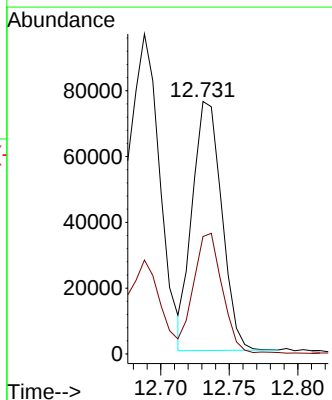
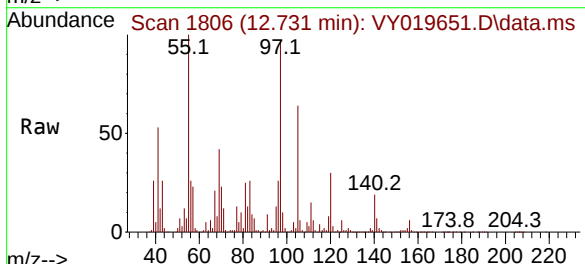
Instrument :
MSVOA_Y
ClientSampleId :
WC-14-7.5-10A

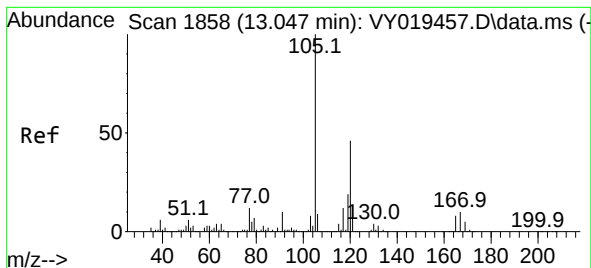
Tgt Ion: 91 Resp: 720189
Ion Ratio Lower Upper
91 100
120 22.6 11.5 34.4



#80
1,3,5-Trimethylbenzene
Concen: 23.765 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VY019651.D
Acq: 20 Sep 2024 17:20

Tgt Ion: 105 Resp: 112985
Ion Ratio Lower Upper
105 100
120 47.3 25.1 75.2





#84

1,2,4-Trimethylbenzene

Concen: 93.631 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. -0.006 min

Lab File: VY019651.D

Acq: 20 Sep 2024 17:20

Instrument :

MSVOA_Y

ClientSampleId :

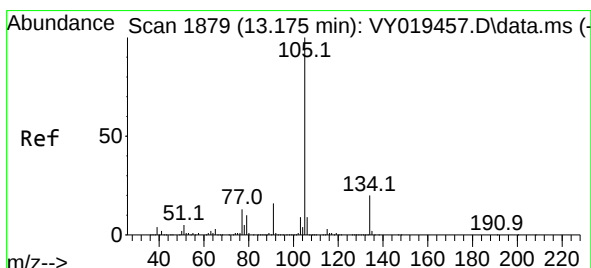
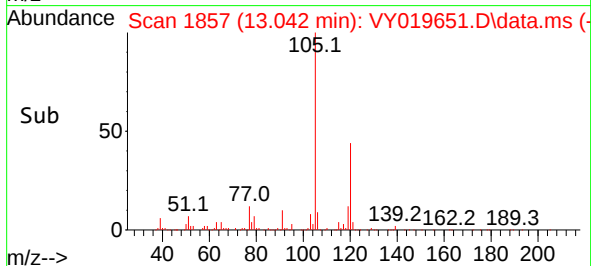
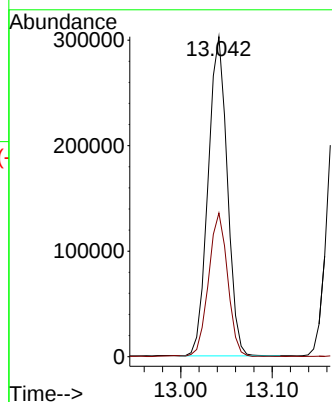
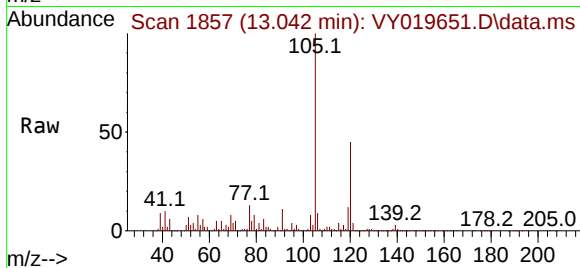
WC-14-7.5-10A

Tgt Ion:105 Resp: 440628

Ion Ratio Lower Upper

105 100

120 45.0 23.2 69.6



#85

sec-Butylbenzene

Concen: 70.785 ug/l

RT: 13.170 min Scan# 1878

Delta R.T. -0.006 min

Lab File: VY019651.D

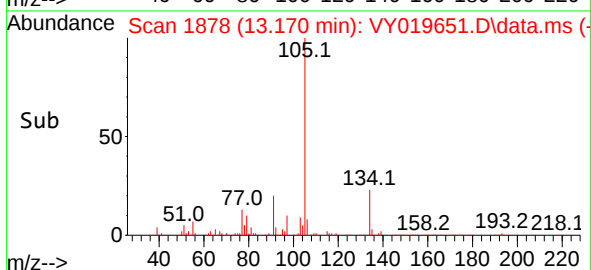
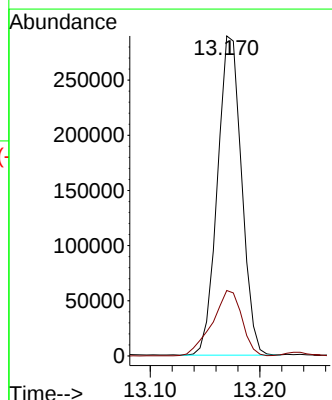
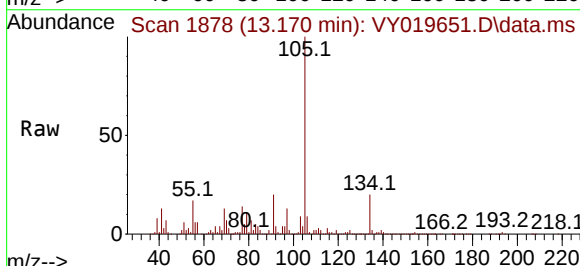
Acq: 20 Sep 2024 17:20

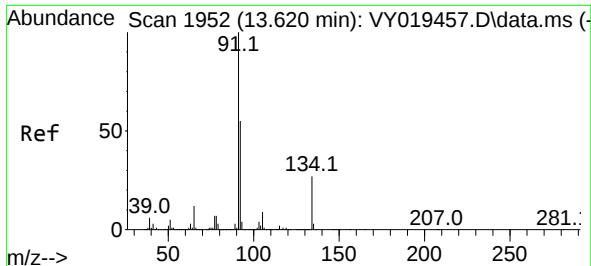
Tgt Ion:105 Resp: 442579

Ion Ratio Lower Upper

105 100

134 25.3 10.1 30.1





#89

n-Butylbenzene

Concen: 89.989 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. -0.006 min

Lab File: VY019651.D

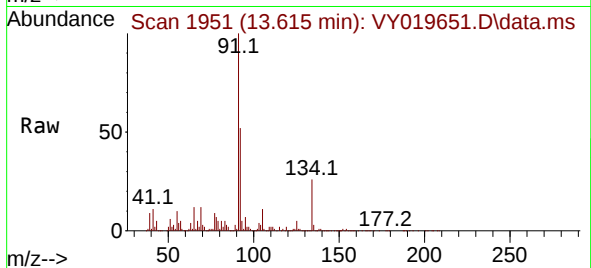
Acq: 20 Sep 2024 17:20

Instrument :

MSVOA_Y

ClientSampleId :

WC-14-7.5-10A



Tgt Ion: 91 Resp: 440080

Ion	Ratio	Lower	Upper
91	100		
92	47.5	26.6	79.7
134	0.0	12.9	38.7#

