

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091622\
 Data File : VY010539.D
 Acq On : 16 Sep 2022 16:50
 Operator : KP/MD
 Sample : N4630-06
 Misc : 4.68g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-17-4-2

Quant Time: Sep 17 00:29:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090922S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 09 17:08:30 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.789	168	193598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	318715	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	229162	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	66694	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	104063	53.370	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 106.740%	
35) Dibromofluoromethane	7.710	113	90620	40.035	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 80.060%	
50) Toluene-d8	10.179	98	366509	49.961	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 99.920%	
62) 4-Bromofluorobenzene	12.477	95	112567	37.127	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 74.260%	

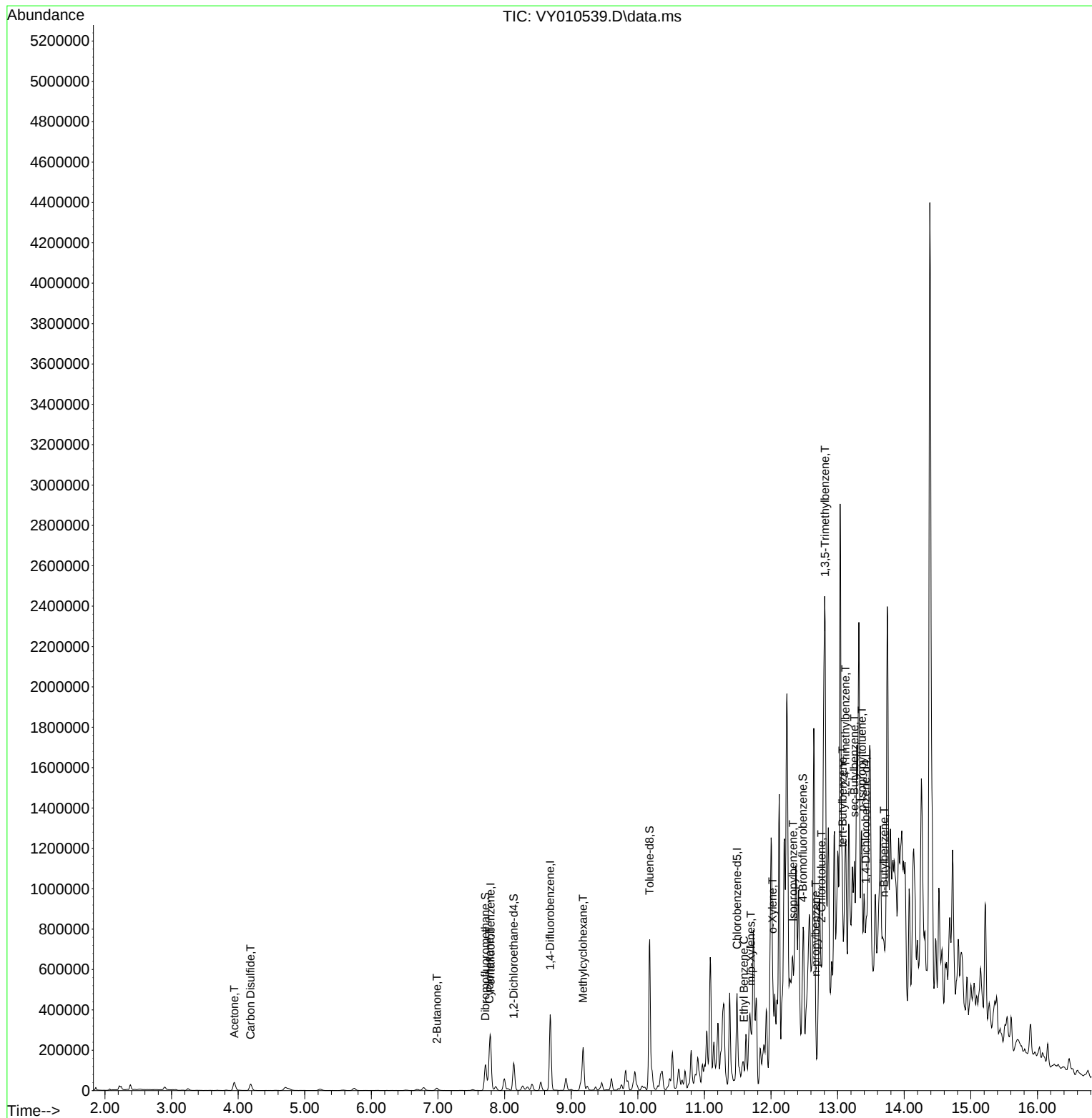
Target Compounds						Qvalue
16) Acetone	3.942	43	69346	154.973	ug/l #	89
17) Carbon Disulfide	4.186	76	64282	12.732	ug/l	100
25) 2-Butanone	6.984	43	18627	26.194	ug/l	94
31) Cyclohexane	7.771	56	25051	7.605	ug/l #	89
39) Methylcyclohexane	9.179	83	86061	22.273	ug/l	93
67) Ethyl Benzene	11.593	91	27007	2.978	ug/l	100
68) m/p-Xylenes	11.697	106	37803	10.616	ug/l	97
69) o-Xylene	12.026	106	35452	10.427	ug/l	95
73) Isopropylbenzene	12.331	105	75567	14.522	ug/l	97
78) n-propylbenzene	12.672	91	69616	11.298	ug/l	98
79) 2-Chlorotoluene	12.758	91	55272	15.968	ug/l	87
80) 1,3,5-Trimethylbenzene	12.812	105	94005	21.410	ug/l	100
83) tert-Butylbenzene	13.075	119	27359	7.129	ug/l	82
84) 1,2,4-Trimethylbenzene	13.117	105	279020	64.948	ug/l	98
85) sec-Butylbenzene	13.251	105	97760	17.204	ug/l #	63
86) p-Isopropyltoluene	13.367	119	39318	8.180	ug/l	97
89) n-Butylbenzene	13.696	91	58041	13.303	ug/l #	81

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

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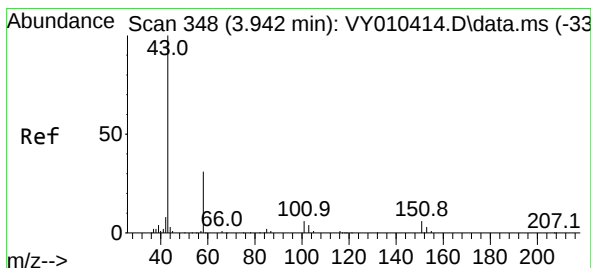
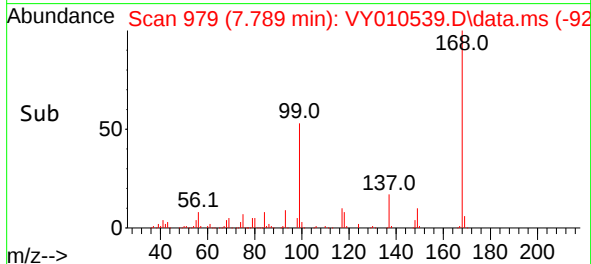
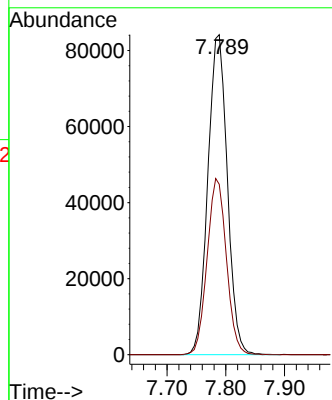
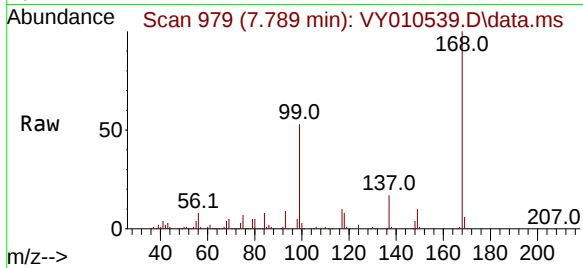




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY010539.D
Acq: 16 Sep 2022 16:50

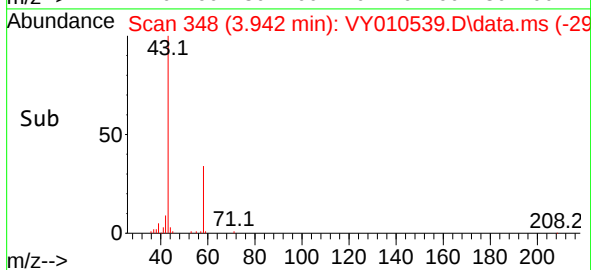
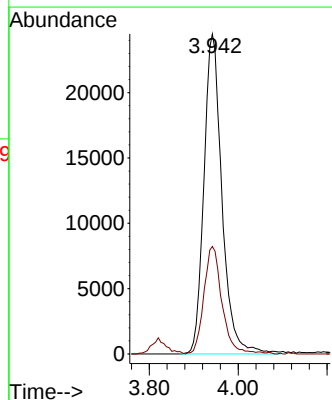
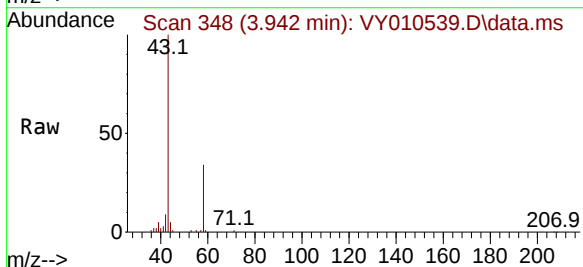
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-2

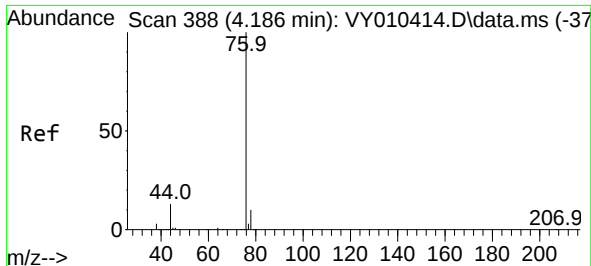
Tgt Ion:168 Resp: 193598
Ion Ratio Lower Upper
168 100
99 53.3 46.9 70.3



#16
Acetone
Concen: 154.973 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY010539.D
Acq: 16 Sep 2022 16:50

Tgt Ion: 43 Resp: 69346
Ion Ratio Lower Upper
43 100
58 33.3 22.0 33.0#

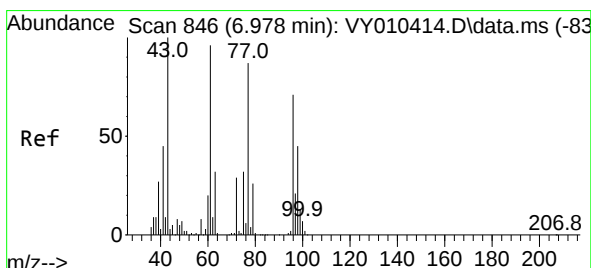
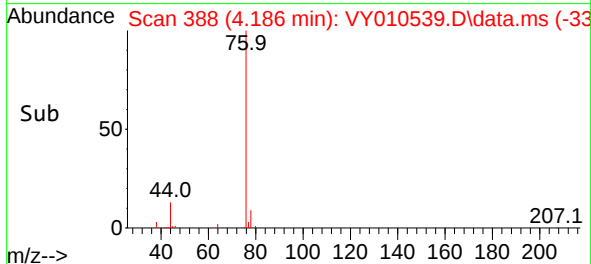
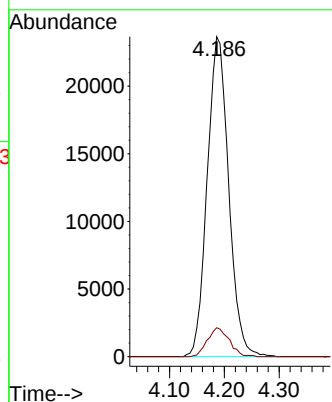
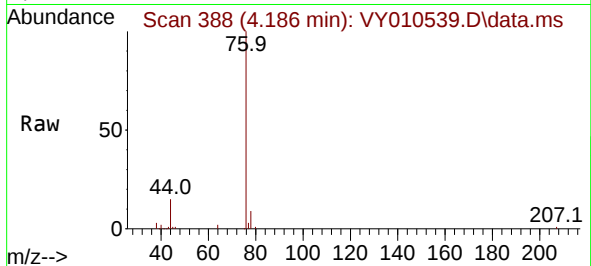




#17
Carbon Disulfide
Concen: 12.732 ug/l
RT: 4.186 min Scan# 388
Delta R.T. -0.000 min
Lab File: VY010539.D
Acq: 16 Sep 2022 16:50

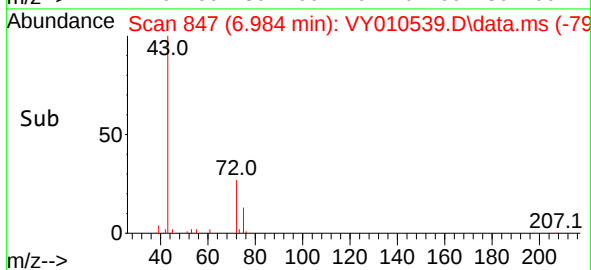
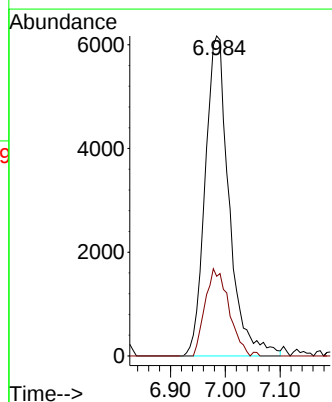
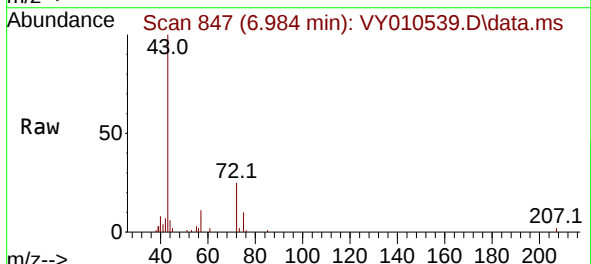
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-2

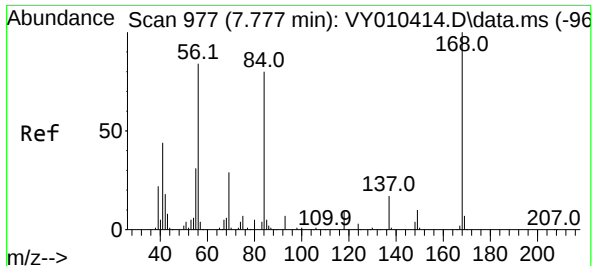
Tgt Ion: 76 Resp: 64282
Ion Ratio Lower Upper
76 100
78 9.0 7.4 11.0



#25
2-Butanone
Concen: 26.194 ug/l
RT: 6.984 min Scan# 847
Delta R.T. 0.006 min
Lab File: VY010539.D
Acq: 16 Sep 2022 16:50

Tgt Ion: 43 Resp: 18627
Ion Ratio Lower Upper
43 100
72 24.9 17.7 26.5

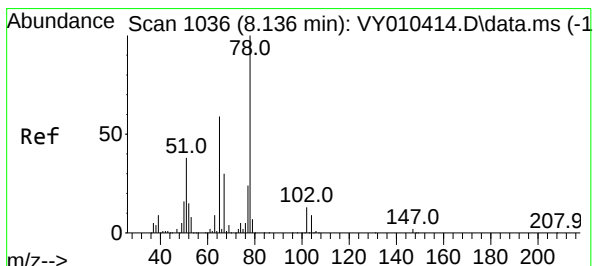
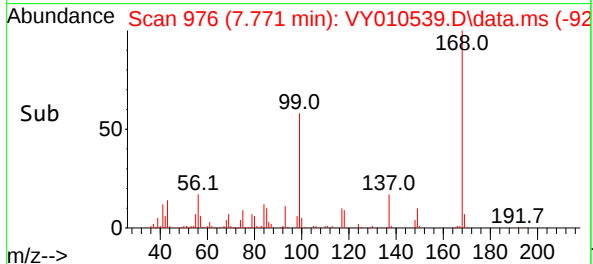
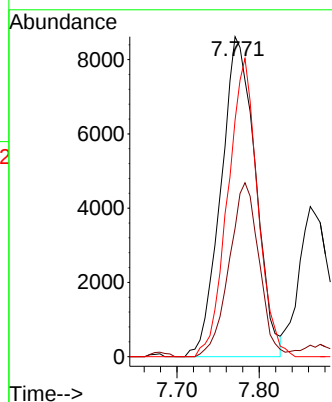
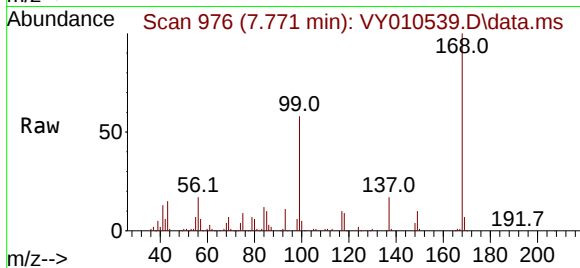




#31
Cyclohexane
Concen: 7.605 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY010539.D
Acq: 16 Sep 2022 16:50

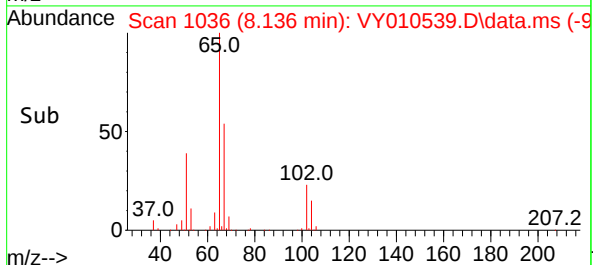
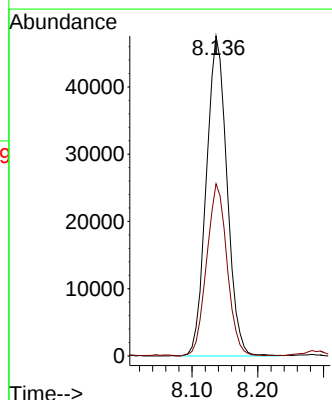
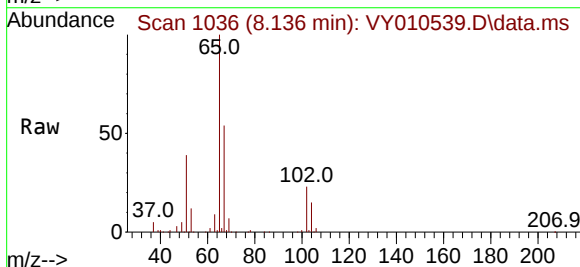
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-2

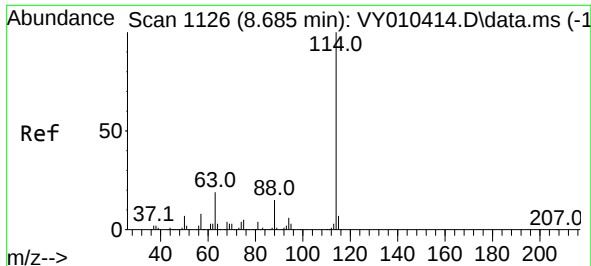
Tgt Ion: 56 Resp: 25051
Ion Ratio Lower Upper
56 100
69 40.1 26.7 40.1#
84 73.9 67.2 100.8



#33
1,2-Dichloroethane-d4
Concen: 53.370 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY010539.D
Acq: 16 Sep 2022 16:50

Tgt Ion: 65 Resp: 104063
Ion Ratio Lower Upper
65 100
67 53.3 0.0 99.4

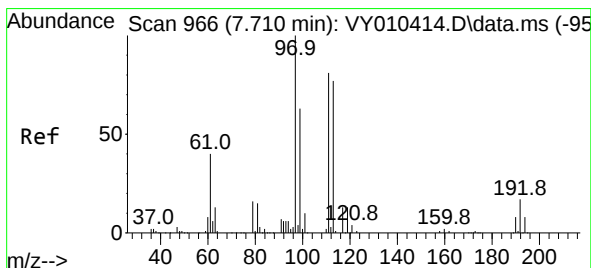
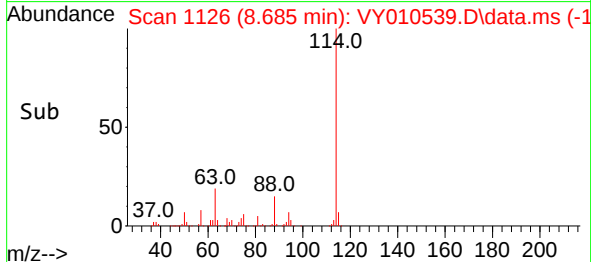
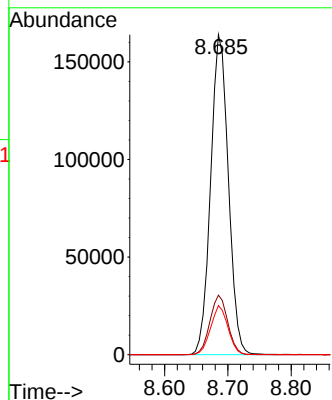
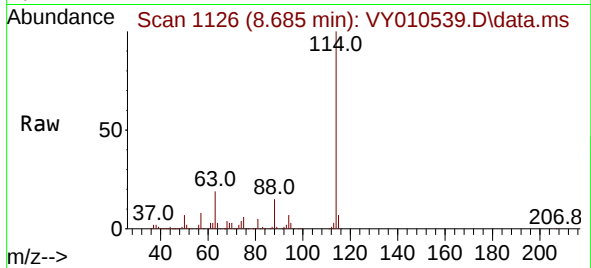




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY010539.D
Acq: 16 Sep 2022 16:50

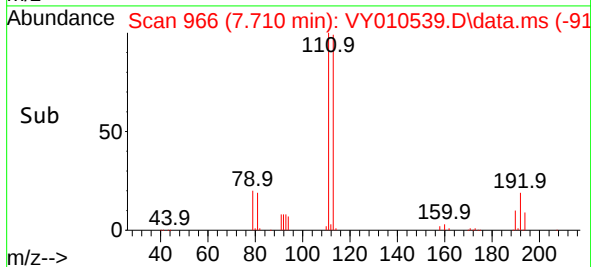
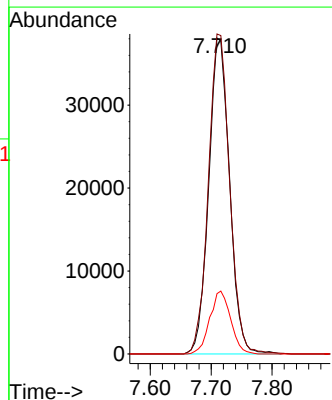
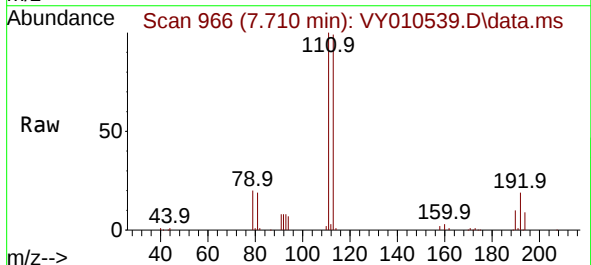
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-2

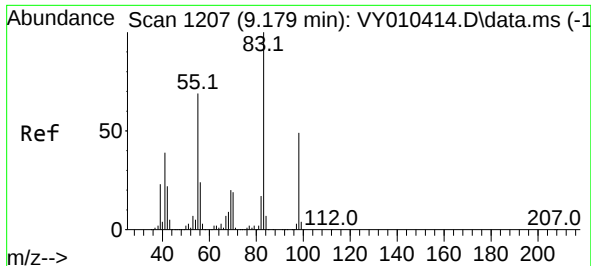
Tgt Ion:	114	Resp:	318715
Ion Ratio	Lower	Upper	
114	100		
63	18.6	0.0	43.2
88	15.3	0.0	31.8



#35
Dibromofluoromethane
Concen: 40.035 ug/l
RT: 7.710 min Scan# 966
Delta R.T. -0.000 min
Lab File: VY010539.D
Acq: 16 Sep 2022 16:50

Tgt Ion:	113	Resp:	90620
Ion Ratio	Lower	Upper	
113	100		
111	103.0	82.6	124.0
192	19.9	17.6	26.4





#39

Methylcyclohexane

Concen: 22.273 ug/l

RT: 9.179 min Scan# 1207

Delta R.T. -0.000 min

Lab File: VY010539.D

Acq: 16 Sep 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

WC-17-4-2

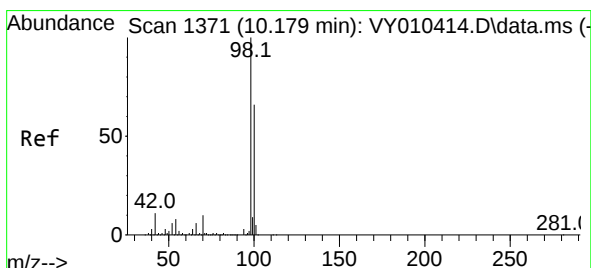
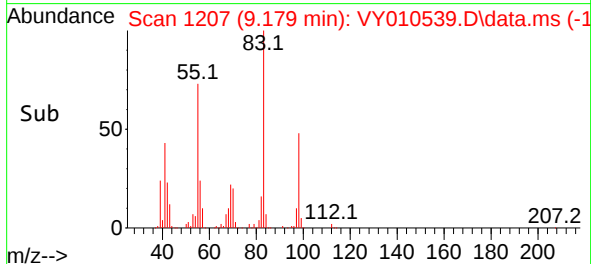
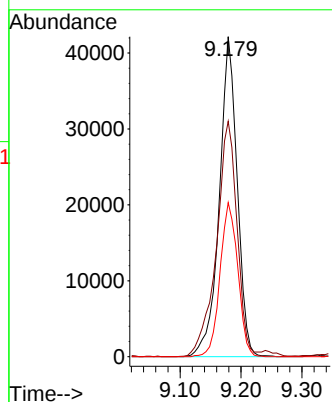
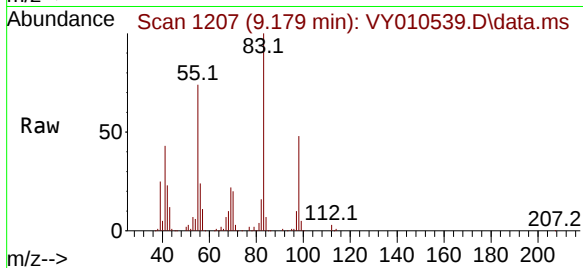
Tgt Ion: 83 Resp: 86061

Ion Ratio Lower Upper

83 100

55 73.4 66.5 99.7

98 48.1 37.9 56.9



#50

Toluene-d8

Concen: 49.961 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY010539.D

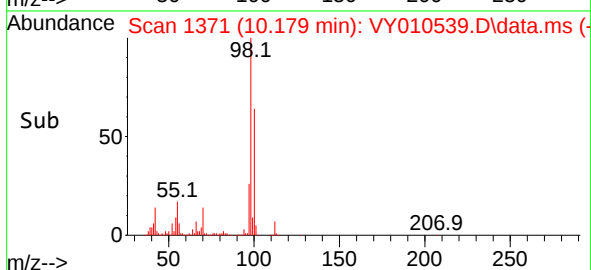
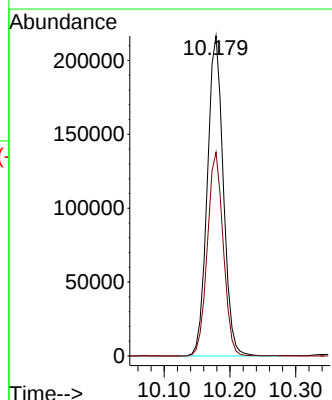
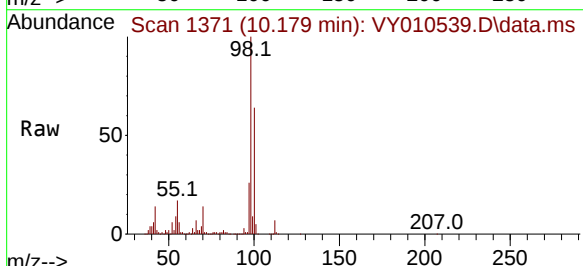
Acq: 16 Sep 2022 16:50

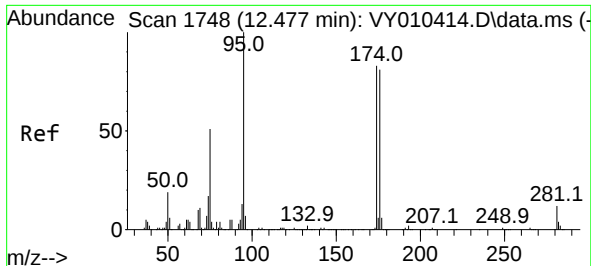
Tgt Ion: 98 Resp: 366509

Ion Ratio Lower Upper

98 100

100 63.0 50.2 75.2





#62

4-Bromofluorobenzene

Concen: 37.127 ug/l

RT: 12.477 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY010539.D

Acq: 16 Sep 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

WC-17-4-2

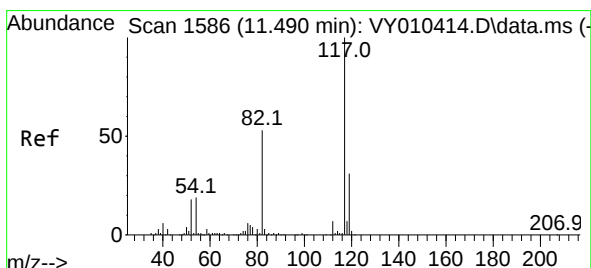
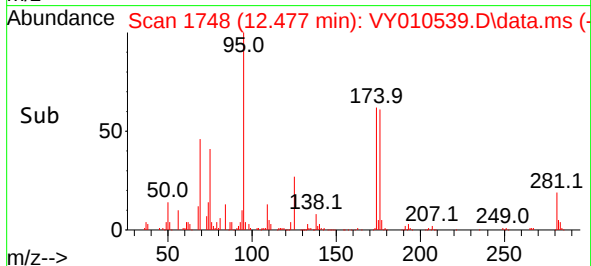
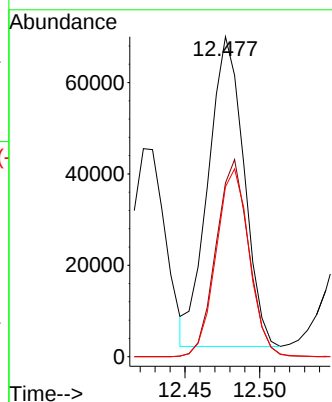
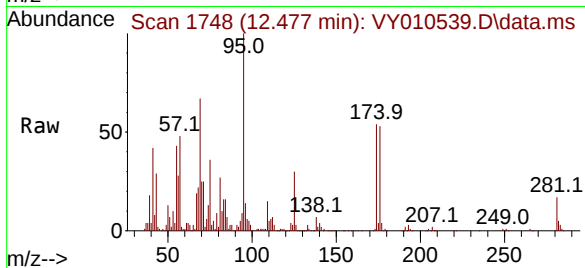
Tgt Ion: 95 Resp: 112567

Ion Ratio Lower Upper

95 100

174 58.3 0.0 177.0

176 56.4 0.0 175.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. -0.001 min

Lab File: VY010539.D

Acq: 16 Sep 2022 16:50

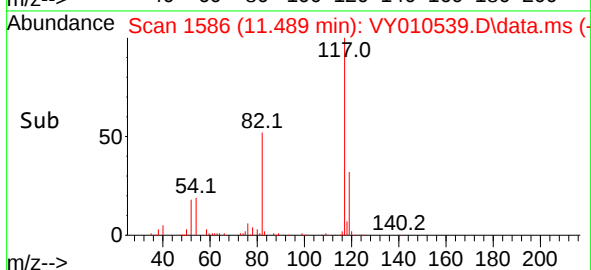
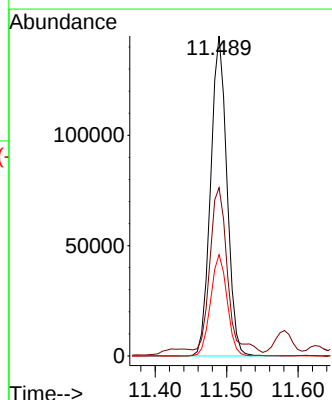
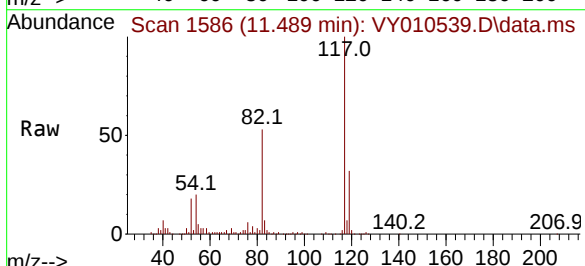
Tgt Ion: 117 Resp: 229162

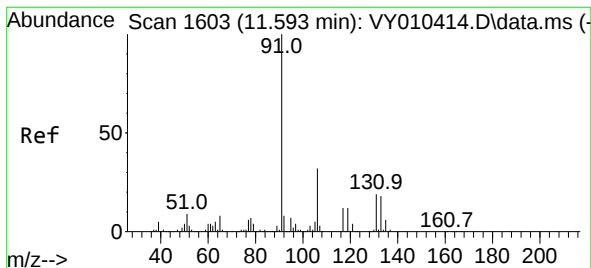
Ion Ratio Lower Upper

117 100

82 50.5 43.0 64.4

119 31.7 25.4 38.0





#67

Ethyl Benzene

Concen: 2.978 ug/l

RT: 11.593 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY010539.D

Acq: 16 Sep 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

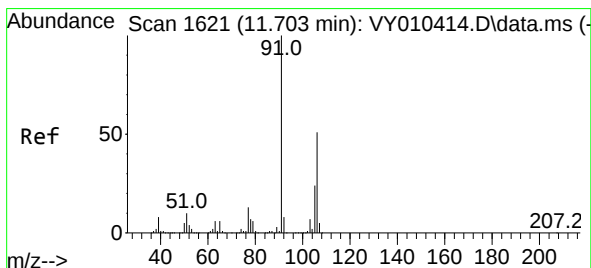
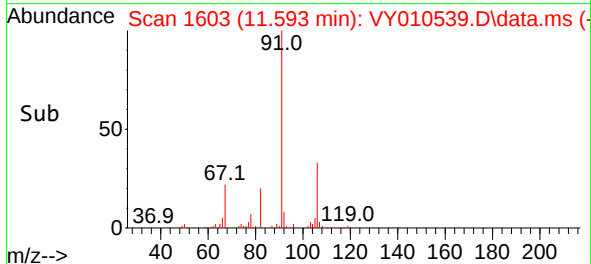
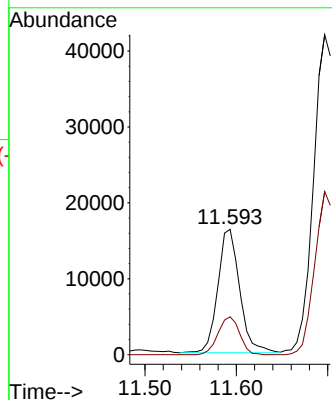
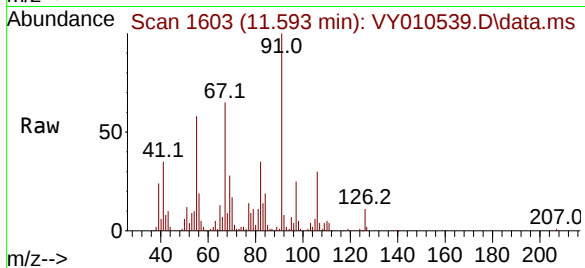
WC-17-4-2

Tgt Ion: 91 Resp: 27007

Ion Ratio Lower Upper

91 100

106 30.7 24.5 36.7



#68

m/p-Xylenes

Concen: 10.616 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. -0.006 min

Lab File: VY010539.D

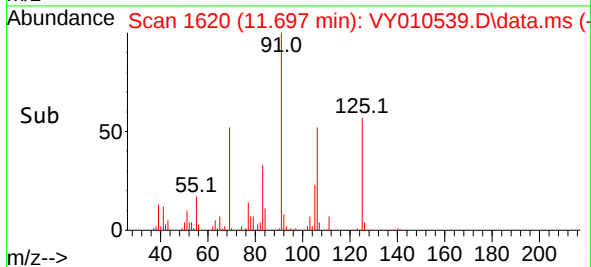
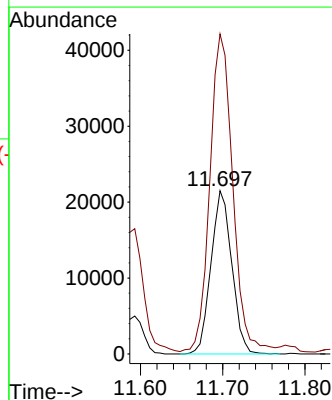
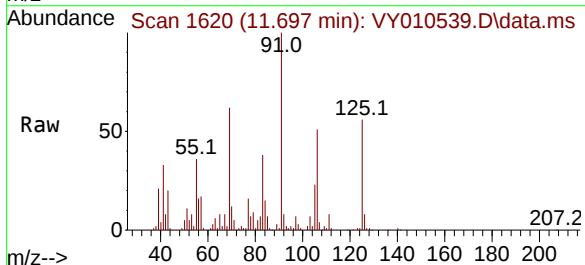
Acq: 16 Sep 2022 16:50

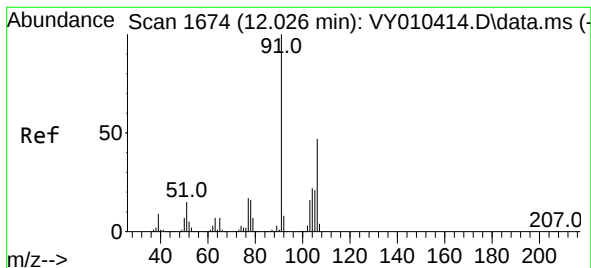
Tgt Ion:106 Resp: 37803

Ion Ratio Lower Upper

106 100

91 212.7 166.6 249.8





#69

o-Xylene

Concen: 10.427 ug/l

RT: 12.026 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY010539.D

Acq: 16 Sep 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

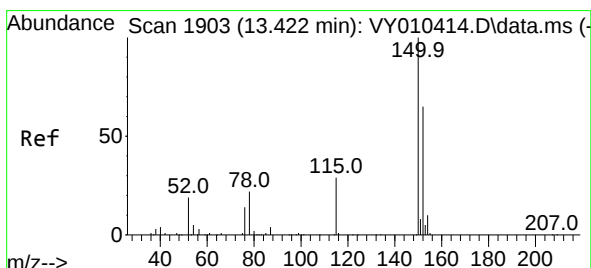
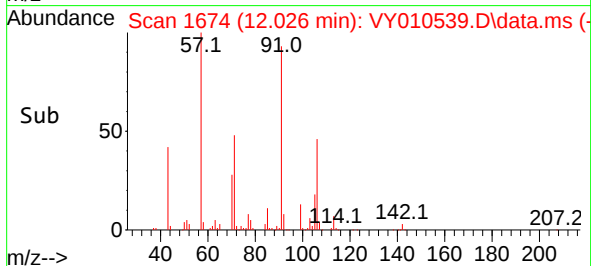
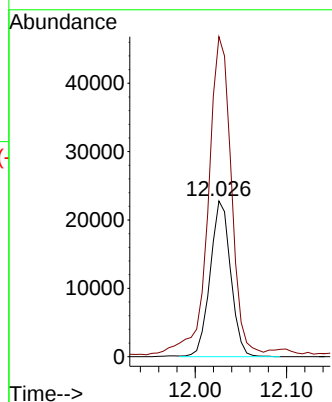
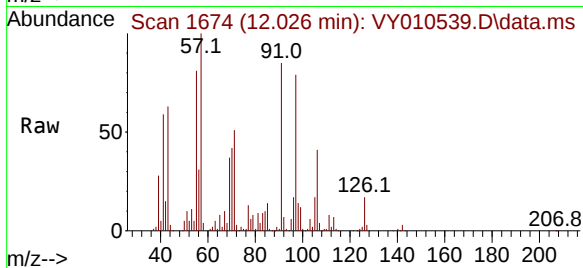
WC-17-4-2

Tgt Ion:106 Resp: 35452

Ion Ratio Lower Upper

106 100

91 228.9 110.3 331.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY010539.D

Acq: 16 Sep 2022 16:50

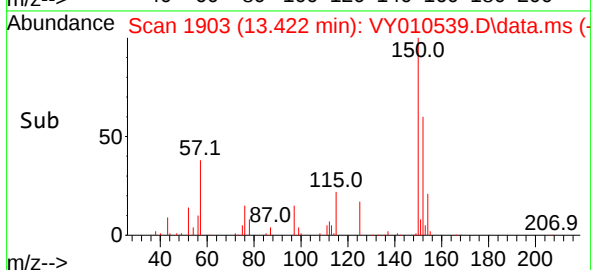
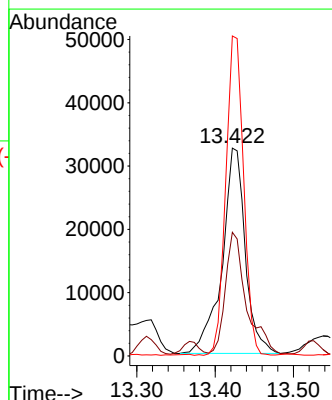
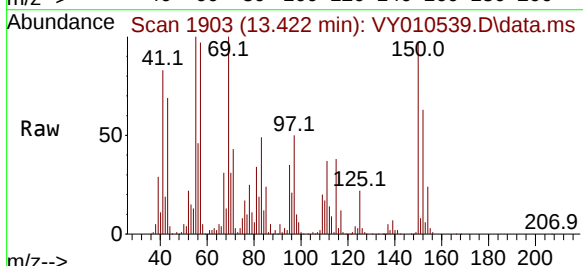
Tgt Ion:152 Resp: 66694

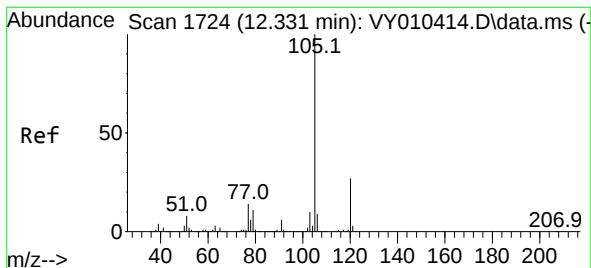
Ion Ratio Lower Upper

152 100

115 53.3 28.2 84.7

150 119.9 0.0 347.6





#73

Isopropylbenzene

Concen: 14.522 ug/l

RT: 12.331 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY010539.D

Acq: 16 Sep 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

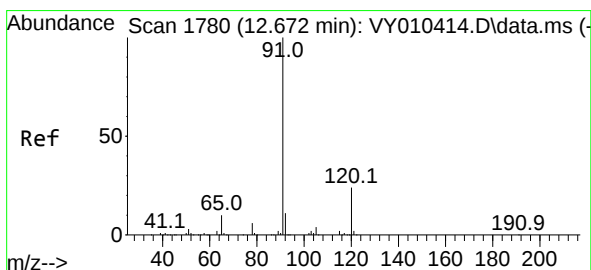
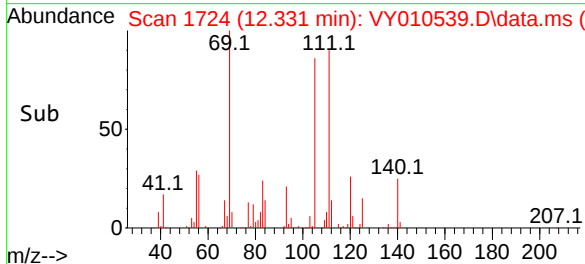
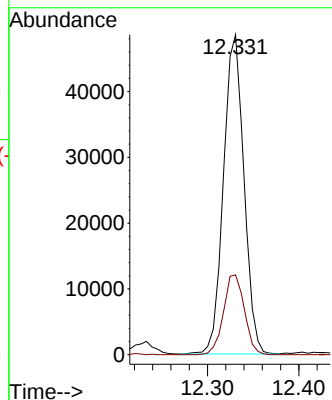
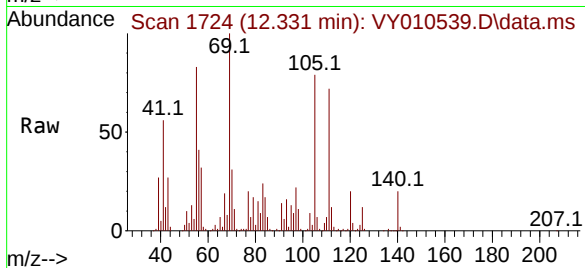
WC-17-4-2

Tgt Ion:105 Resp: 75567

Ion Ratio Lower Upper

105 100

120 25.5 13.4 40.2



#78

n-propylbenzene

Concen: 11.298 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. 0.000 min

Lab File: VY010539.D

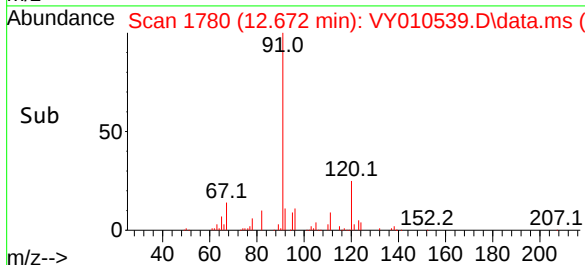
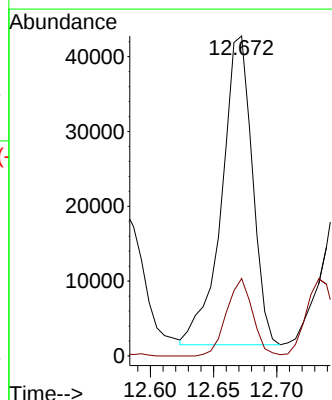
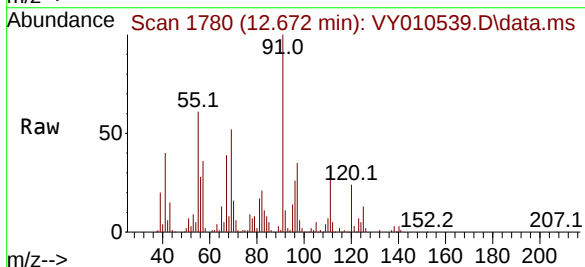
Acq: 16 Sep 2022 16:50

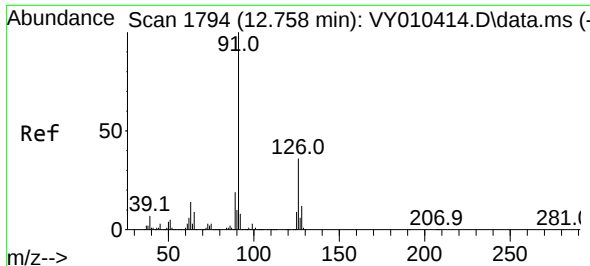
Tgt Ion: 91 Resp: 69616

Ion Ratio Lower Upper

91 100

120 21.4 11.3 33.9

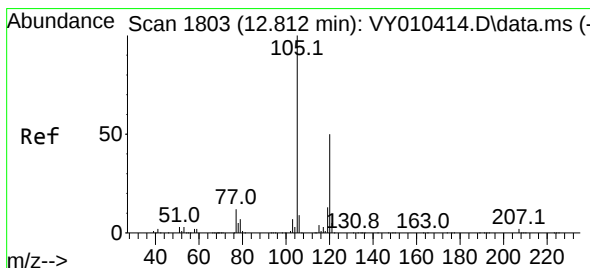
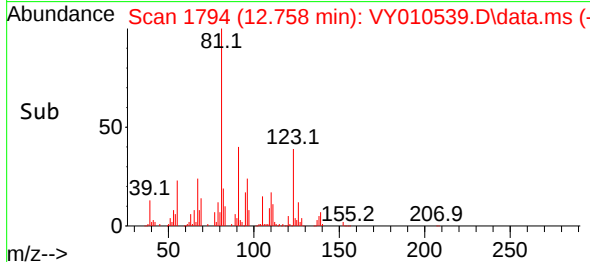
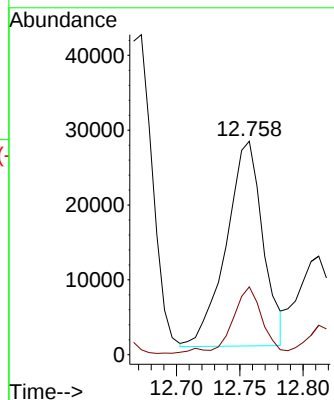
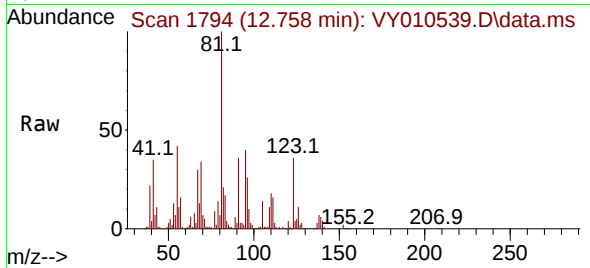




#79
2-Chlorotoluene
Concen: 15.968 ug/l
RT: 12.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY010539.D
Acq: 16 Sep 2022 16:50

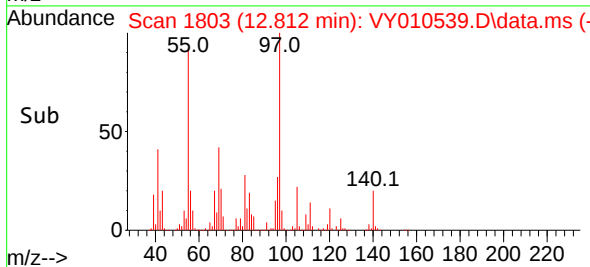
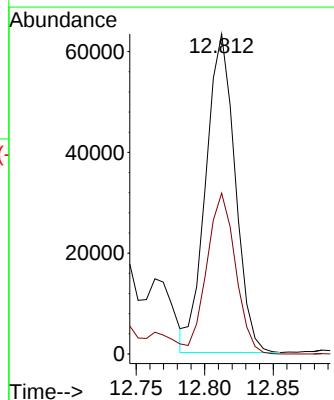
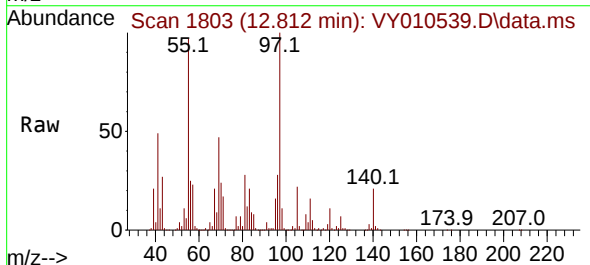
Instrument :
MSVOA_Y
ClientSampleId :
WC-17-4-2

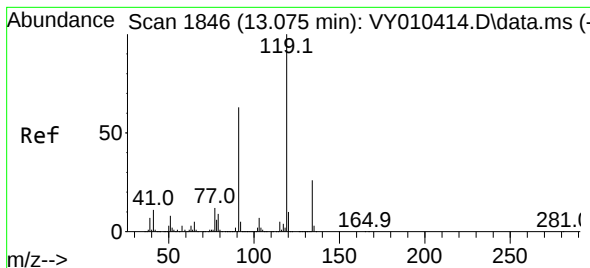
Tgt Ion: 91 Resp: 55272
Ion Ratio Lower Upper
91 100
126 26.2 16.9 50.6



#80
1,3,5-Trimethylbenzene
Concen: 21.410 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY010539.D
Acq: 16 Sep 2022 16:50

Tgt Ion: 105 Resp: 94005
Ion Ratio Lower Upper
105 100
120 48.9 24.4 73.4





#83

tert-Butylbenzene

Concen: 7.129 ug/l

RT: 13.075 min Scan# 1846

Delta R.T. -0.000 min

Lab File: VY010539.D

Acq: 16 Sep 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

WC-17-4-2

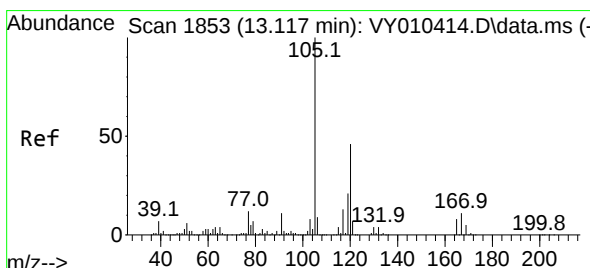
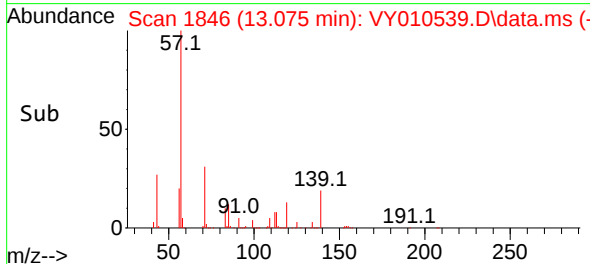
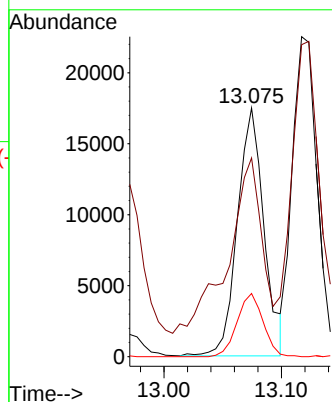
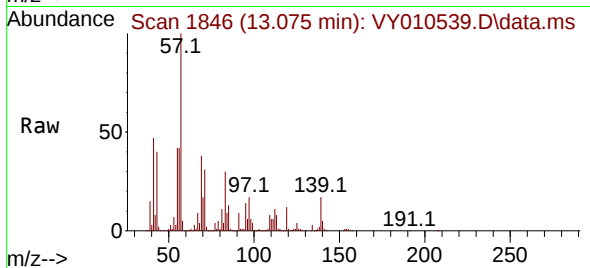
Tgt Ion:119 Resp: 27359

Ion Ratio Lower Upper

119 100

91 89.1 34.8 104.4

134 25.0 13.3 39.9



#84

1,2,4-Trimethylbenzene

Concen: 64.948 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY010539.D

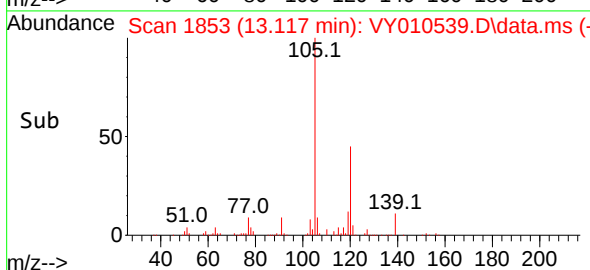
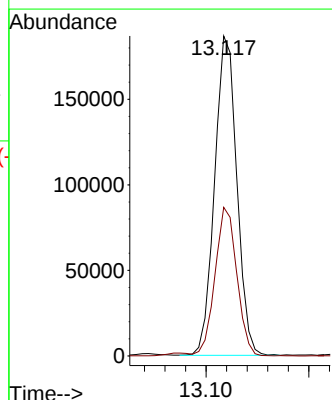
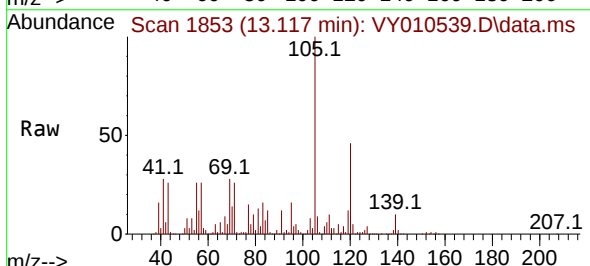
Acq: 16 Sep 2022 16:50

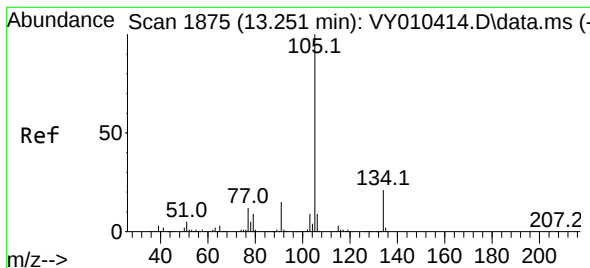
Tgt Ion:105 Resp: 279020

Ion Ratio Lower Upper

105 100

120 45.8 22.3 66.9





#85

sec-Butylbenzene

Concen: 17.204 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY010539.D

Acq: 16 Sep 2022 16:50

Instrument :

MSVOA_Y

ClientSampleId :

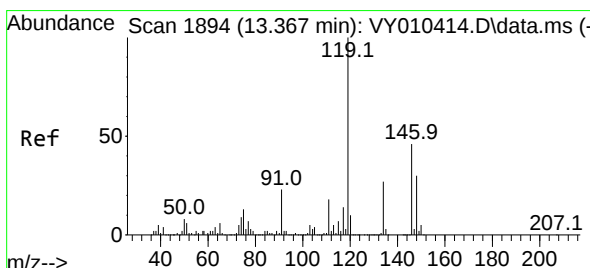
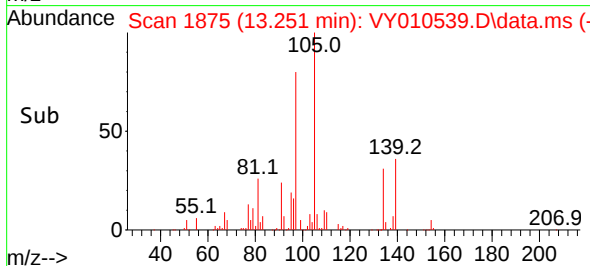
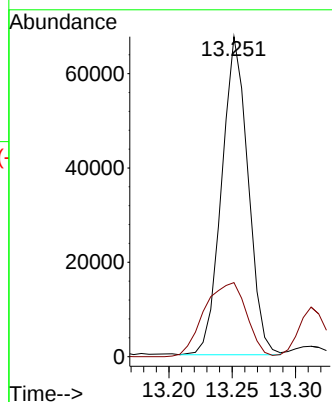
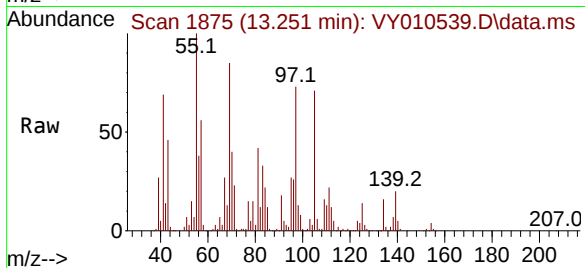
WC-17-4-2

Tgt Ion:105 Resp: 97760

Ion Ratio Lower Upper

105 100

134 37.3 10.2 30.4#



#86

p-Isopropyltoluene

Concen: 8.180 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY010539.D

Acq: 16 Sep 2022 16:50

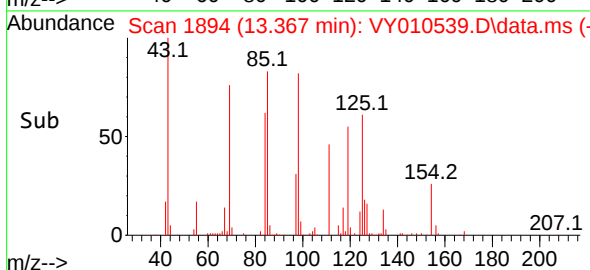
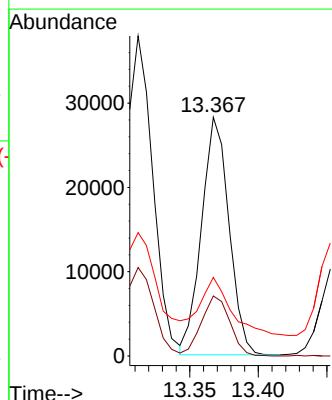
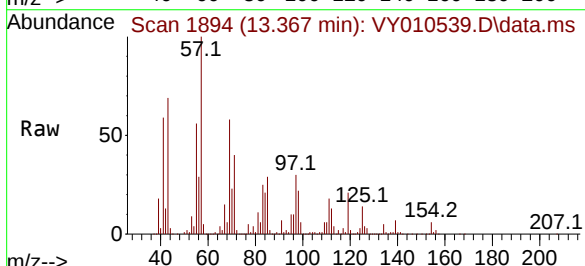
Tgt Ion:119 Resp: 39318

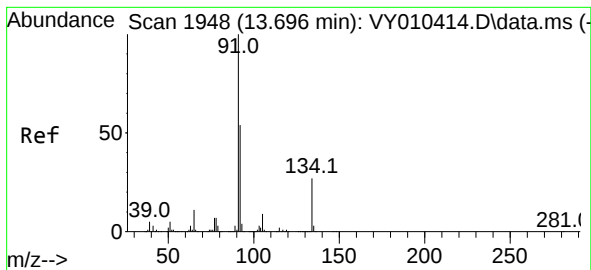
Ion Ratio Lower Upper

119 100

134 26.2 13.2 39.5

91 27.5 12.4 37.2





#89
 n-Butylbenzene
 Concen: 13.303 ug/l
 RT: 13.696 min Scan# 1948
 Delta R.T. 0.000 min
 Lab File: VY010539.D
 Acq: 16 Sep 2022 16:50

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-17-4-2

Tgt Ion: 91	Resp: 58041
Ion Ratio	Lower Upper
91	100
92	50.4 26.3 78.9
134	0.0 13.0 38.9#

