

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032723\
 Data File : VY013090.D
 Acq On : 27 Mar 2023 14:34
 Operator : KP/MD
 Sample : 02073-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TRE-1715

Quant Time: Mar 28 01:43:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030223S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 03 01:13:13 2023
 Response via : Initial Calibration

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

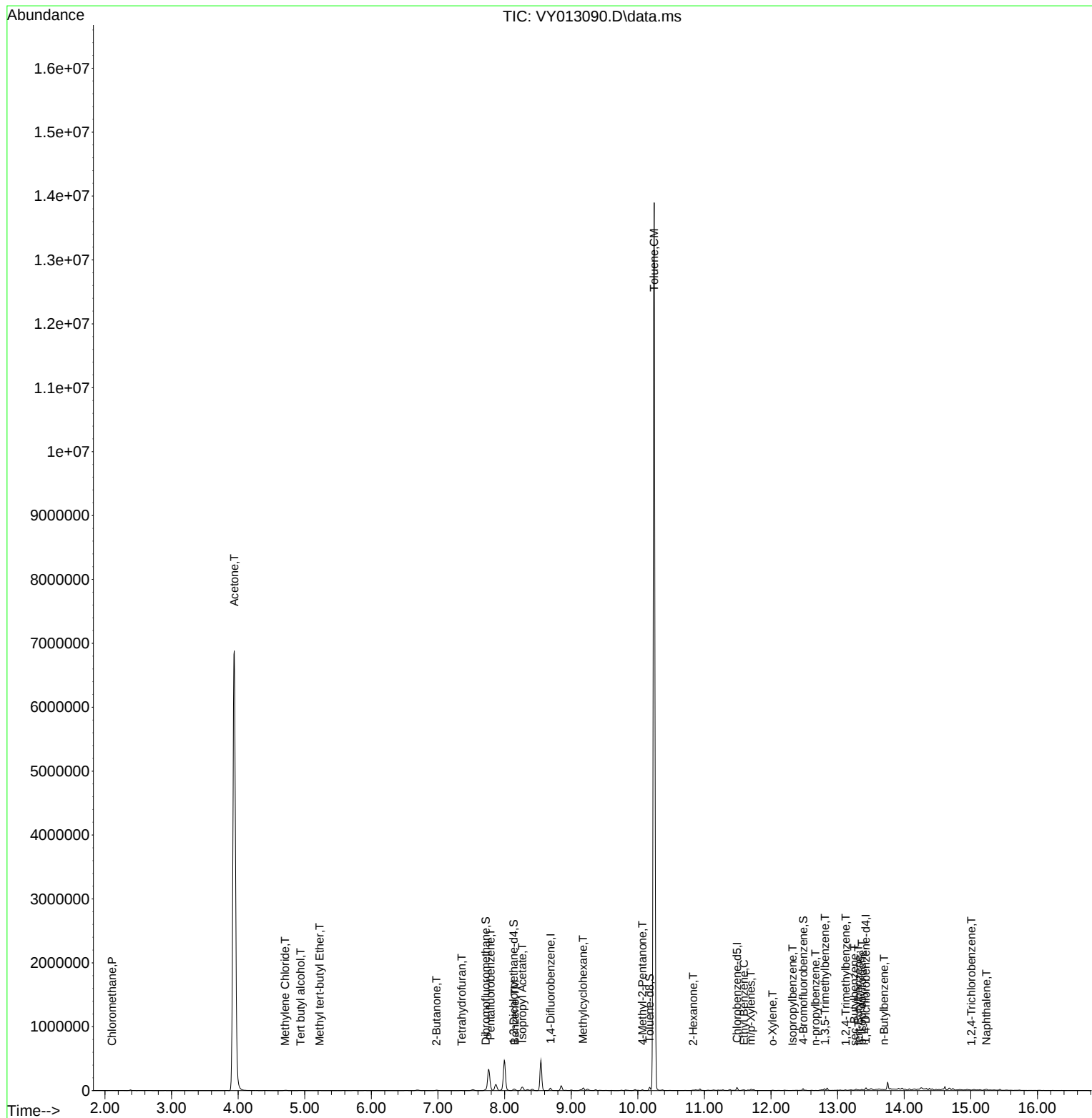
Internal Standards						
1) Pentafluorobenzene	7.789	168	18875	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	31681	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	22909	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	6957	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	14814	79.048	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 158.100%	
35) Dibromofluoromethane	7.716	113	11792	61.675	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 123.360%	
50) Toluene-d8	10.179	98	31891	45.626	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 91.260%	
62) 4-Bromofluorobenzene	12.483	95	8424	35.707	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 71.420%	
Target Compounds						Qvalue
3) Chloromethane	2.107	50	259	1.165	ug/l	92
11) Tert butyl alcohol	4.936	59	5134	237.181	ug/l #	87
16) Acetone	3.942	43	12195403	165794.005	ug/l	99
19) Methyl tert-butyl Ether	5.222	73	2676	5.330	ug/l	97
20) Methylene Chloride	4.704	84	3744	12.668	ug/l	95
25) 2-Butanone	6.978	43	9737	106.874	ug/l	95
29) Tetrahydrofuran	7.356	42	924	16.816	ug/l #	84
39) Methylcyclohexane	9.179	83	12680	33.288	ug/l	88
40) Benzene	8.155	78	10321	11.388	ug/l	100
43) Isopropyl Acetate	8.265	43	31304	86.885	ug/l #	54
51) 4-Methyl-2-Pentanone	10.069	43	8308	42.510	ug/l	96
52) Toluene	10.246	92	5553704	10160.651	ug/l	91
59) 2-Hexanone	10.831	43	2969	20.903	ug/l	70
67) Ethyl Benzene	11.593	91	4603	5.445	ug/l	96
68) m/p-Xylenes	11.697	106	4686	14.410	ug/l	99
69) o-Xylene	12.026	106	1341	4.418	ug/l	100
73) Isopropylbenzene	12.325	105	994	2.016	ug/l	93
78) n-propylbenzene	12.666	91	1676	2.757	ug/l	99
80) 1,3,5-Trimethylbenzene	12.812	105	1376	3.382	ug/l	83
83) tert-Butylbenzene	13.312	119	731	2.081	ug/l	96
84) 1,2,4-Trimethylbenzene	13.123	105	5037	12.660	ug/l	95
85) sec-Butylbenzene	13.251	105	918	1.713	ug/l	90
86) p-Isopropyltoluene	13.367	119	2460	5.618	ug/l #	84
89) n-Butylbenzene	13.696	91	2663	6.353	ug/l #	78
93) 1,2,4-Trichlorobenzene	15.007	180	414	3.220	ug/l #	81
95) Naphthalene	15.233	128	11546	44.812	ug/l	98

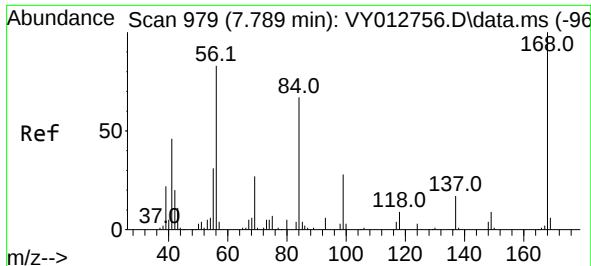
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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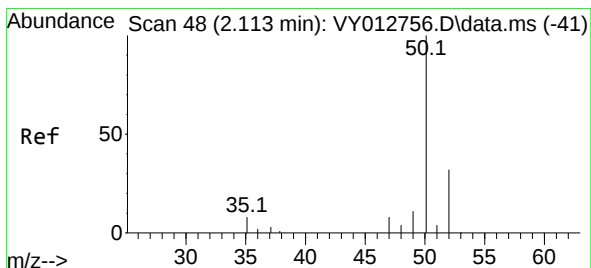
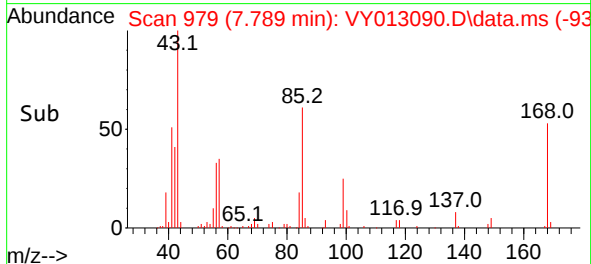
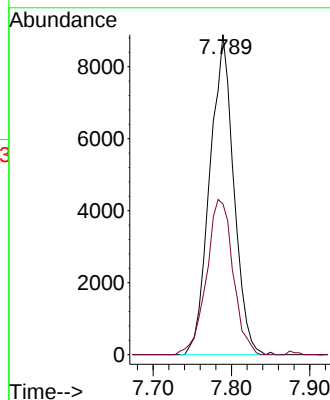
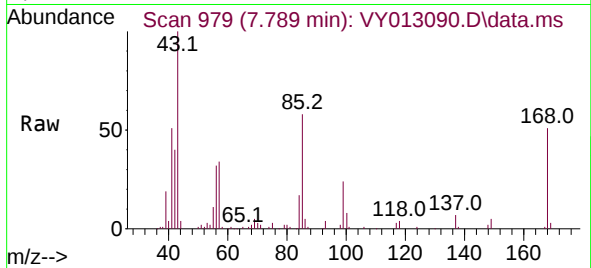




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

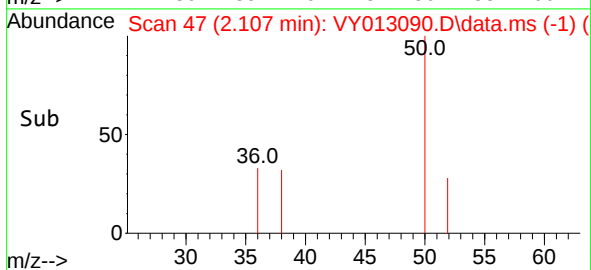
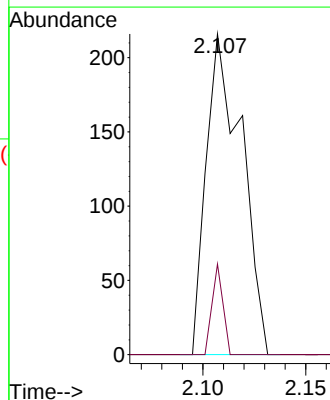
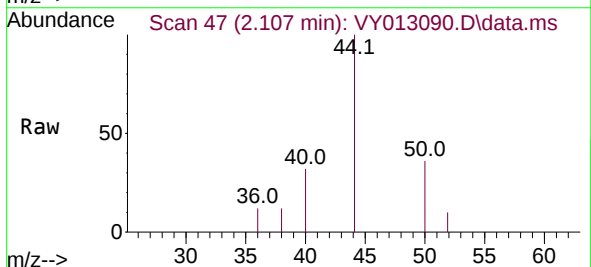
Instrument :
MSVOA_Y
ClientSampleId :
TRE-1715

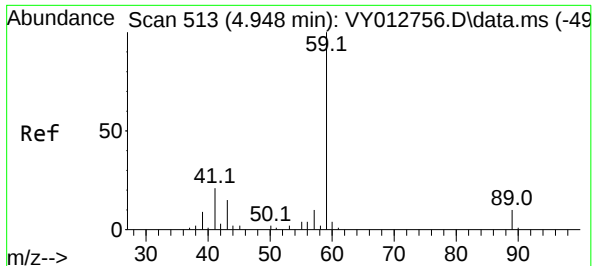
Tgt Ion:168 Resp: 18875
Ion Ratio Lower Upper
168 100
99 47.1 41.7 62.5



#3
Chloromethane
Concen: 1.165 ug/l
RT: 2.107 min Scan# 47
Delta R.T. -0.006 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

Tgt Ion: 50 Resp: 259
Ion Ratio Lower Upper
50 100
52 28.2 26.0 39.0





#11

Tert butyl alcohol

Concen: 237.181 ug/l

RT: 4.936 min Scan# 513

Delta R.T. -0.012 min

Lab File: VY013090.D

Acq: 27 Mar 2023 14:34

Instrument :

MSVOA_Y

ClientSampleId :

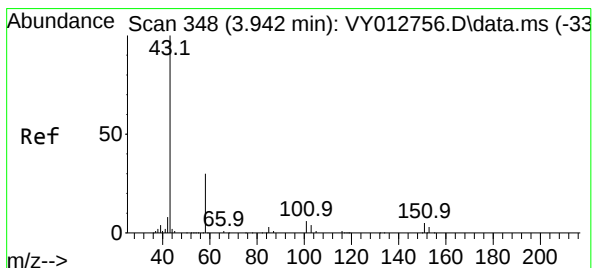
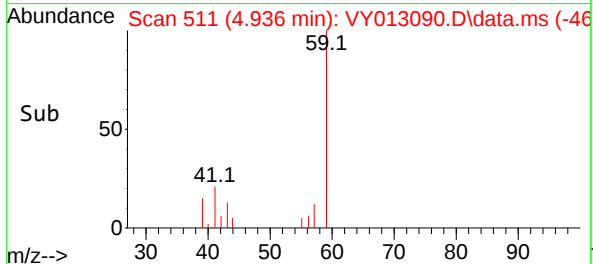
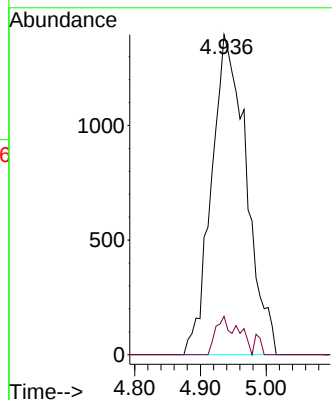
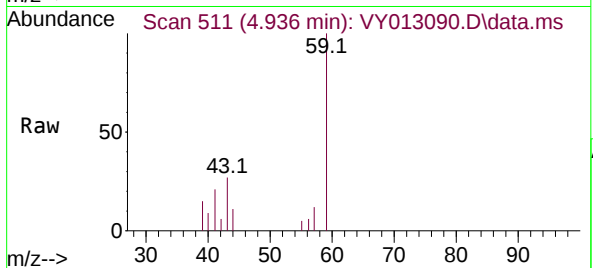
TRE-1715

Tgt Ion: 59 Resp: 5134

Ion Ratio Lower Upper

59 100

57 4.8 7.7 11.5#



#16

Acetone

Concen: 165794.005 ug/l

RT: 3.942 min Scan# 348

Delta R.T. 0.000 min

Lab File: VY013090.D

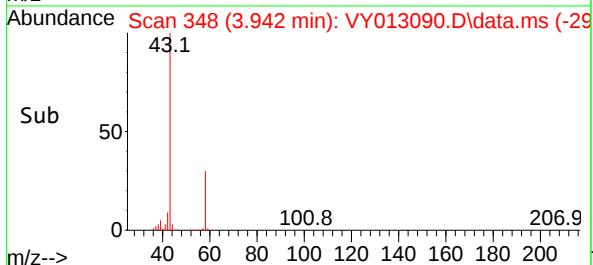
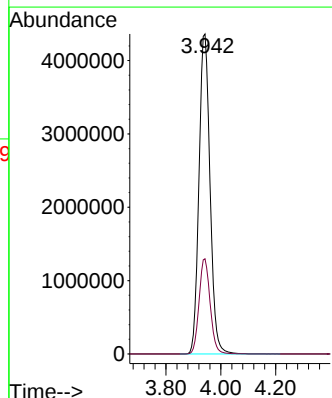
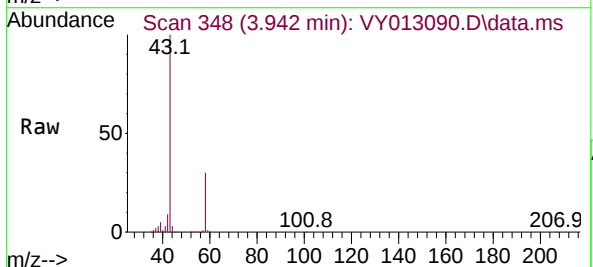
Acq: 27 Mar 2023 14:34

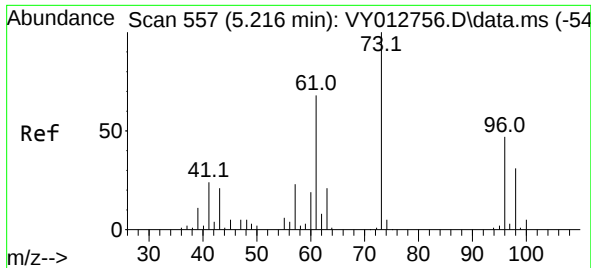
Tgt Ion: 43 Resp:12195403

Ion Ratio Lower Upper

43 100

58 29.7 24.2 36.2

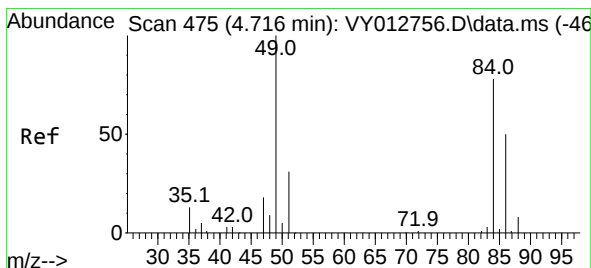
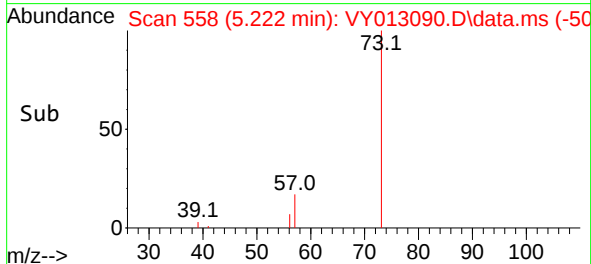
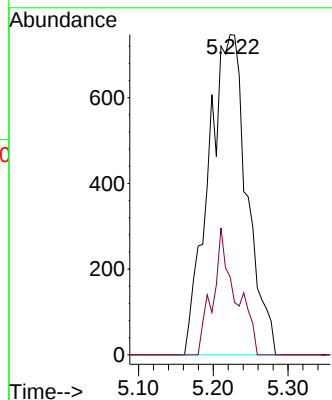
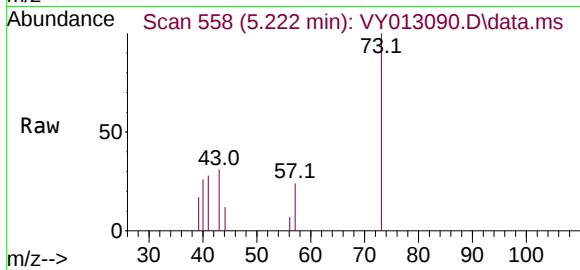




#19
Methyl tert-butyl Ether
Concen: 5.330 ug/l
RT: 5.222 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

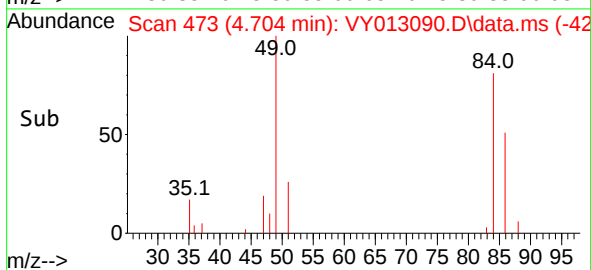
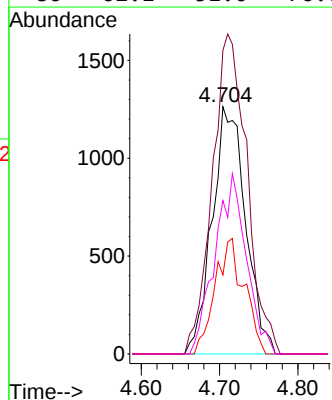
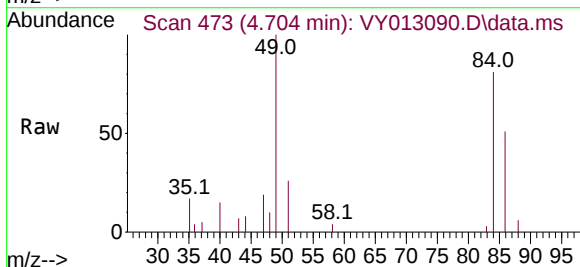
Instrument :
MSVOA_Y
ClientSampleId :
TRE-1715

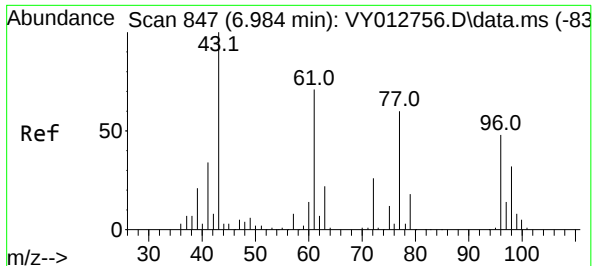
Tgt Ion: 73 Resp: 2676
Ion Ratio Lower Upper
73 100
57 24.4 18.3 27.5



#20
Methylene Chloride
Concen: 12.668 ug/l
RT: 4.704 min Scan# 473
Delta R.T. -0.012 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

Tgt Ion: 84 Resp: 3744
Ion Ratio Lower Upper
84 100
49 122.9 102.6 154.0
51 32.0 31.9 47.9
86 62.1 51.0 76.6





#25

2-Butanone

Concen: 106.874 ug/l

RT: 6.978 min Scan# 847

Delta R.T. -0.006 min

Lab File: VY013090.D

Acq: 27 Mar 2023 14:34

Instrument :

MSVOA_Y

ClientSampleId :

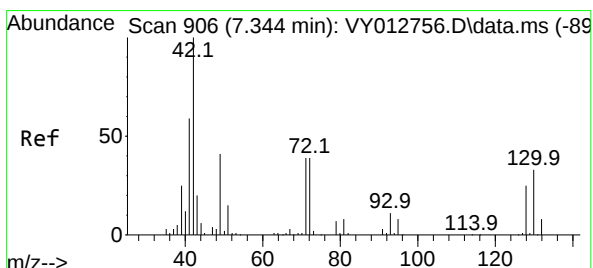
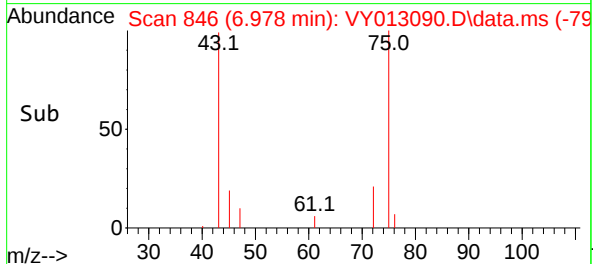
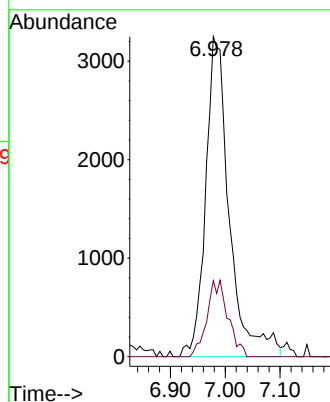
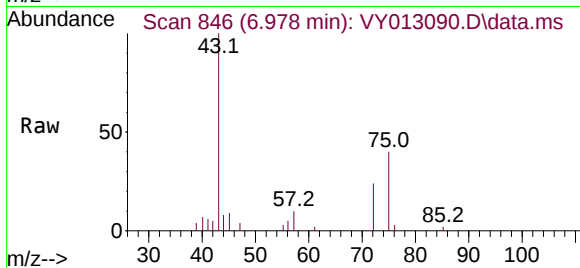
TRE-1715

Tgt Ion: 43 Resp: 9737

Ion Ratio Lower Upper

43 100

72 23.8 21.0 31.4



#29

Tetrahydrofuran

Concen: 16.816 ug/l

RT: 7.356 min Scan# 908

Delta R.T. 0.012 min

Lab File: VY013090.D

Acq: 27 Mar 2023 14:34

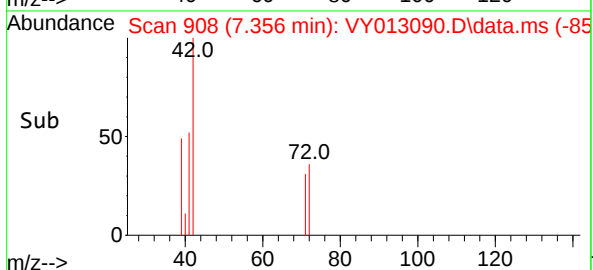
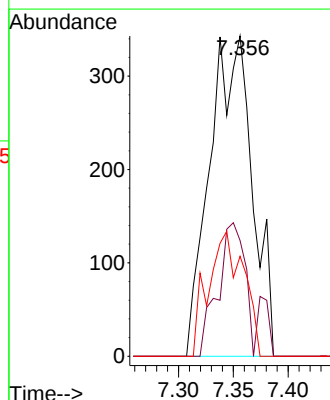
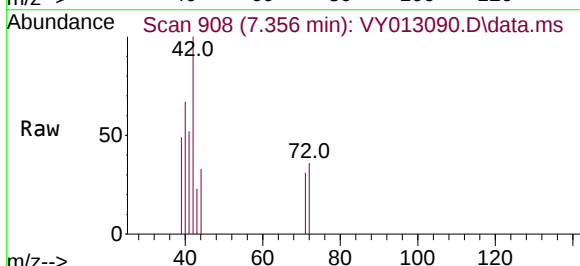
Tgt Ion: 42 Resp: 924

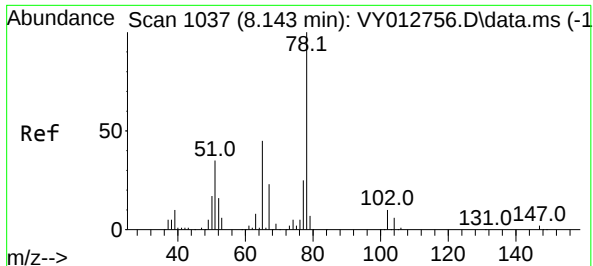
Ion Ratio Lower Upper

42 100

72 26.5 32.3 48.5#

71 32.5 30.3 45.5





#33

1,2-Dichloroethane-d4

Concen: 79.048 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. -0.007 min

Lab File: VY013090.D

Acq: 27 Mar 2023 14:34

Instrument :

MSVOA_Y

ClientSampleId :

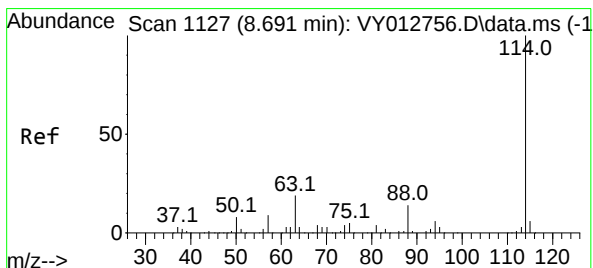
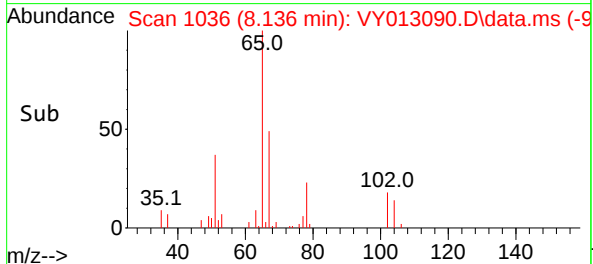
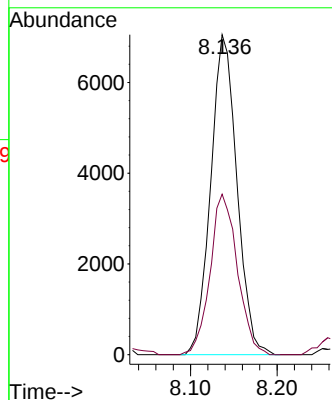
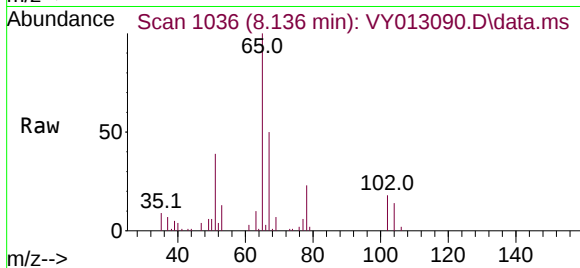
TRE-1715

Tgt Ion: 65 Resp: 14814

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY013090.D

Acq: 27 Mar 2023 14:34

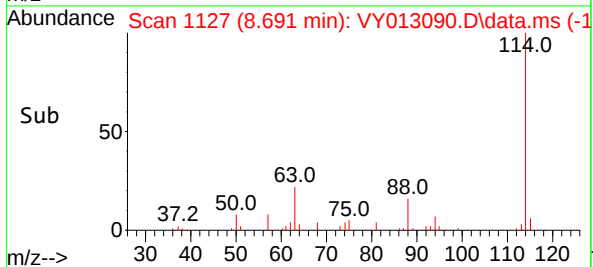
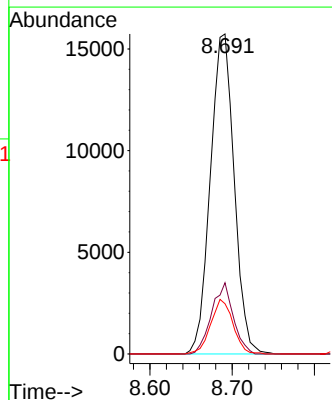
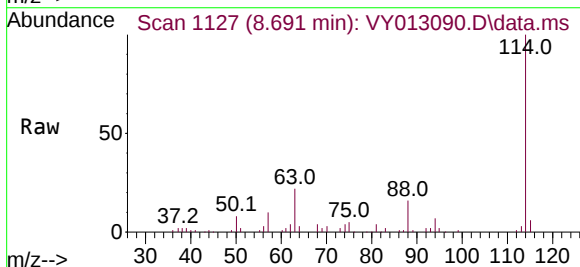
Tgt Ion: 114 Resp: 31681

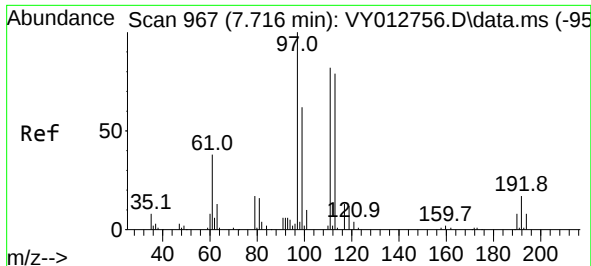
Ion Ratio Lower Upper

114 100

63 22.3 0.0 37.4

88 15.7 0.0 28.6

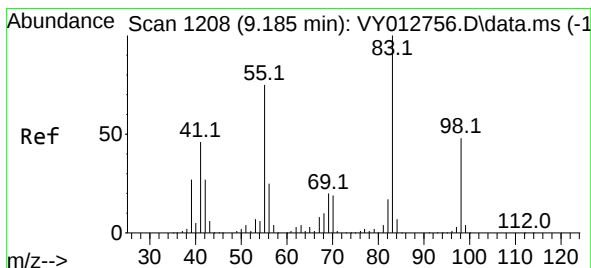
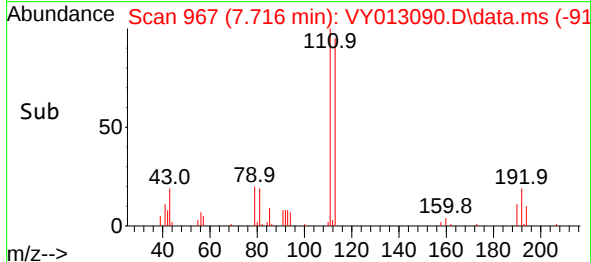
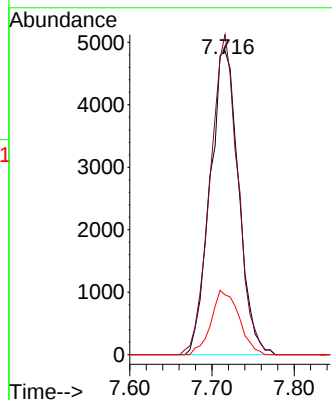
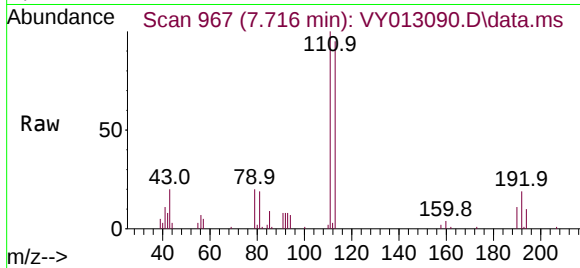




#35
Dibromofluoromethane
Concen: 61.675 ug/l
RT: 7.716 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

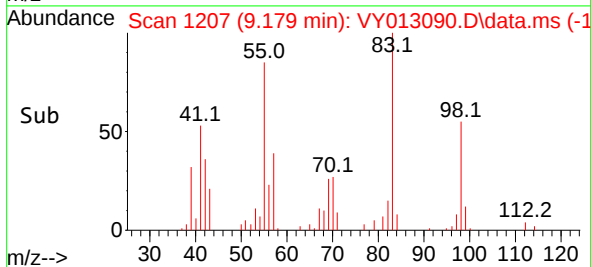
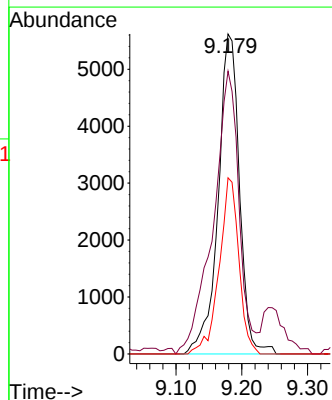
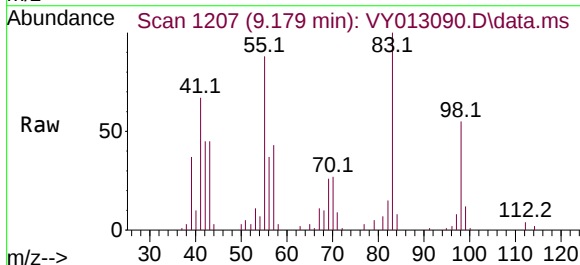
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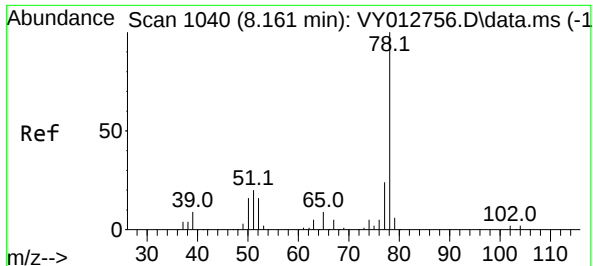
Tgt Ion:	113	Resp:	11792
Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.2	123.2
192	20.5	16.8	25.2



#39
Methylcyclohexane
Concen: 33.288 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. -0.006 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

Tgt Ion:	83	Resp:	12680
Ion	Ratio	Lower	Upper
83	100		
55	86.4	60.0	90.0
98	55.0	38.3	57.5

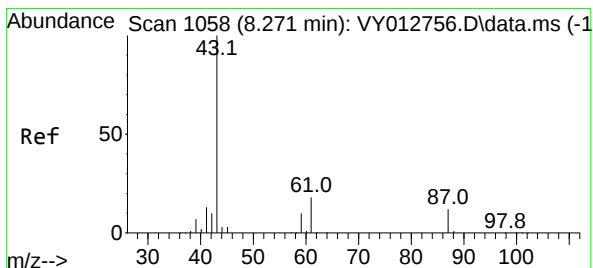
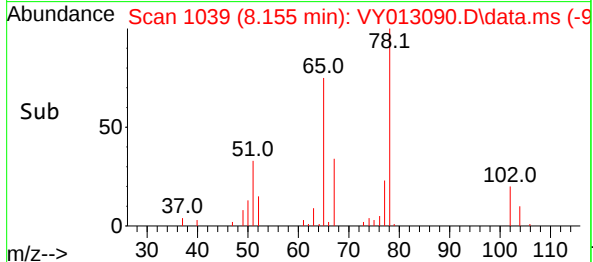
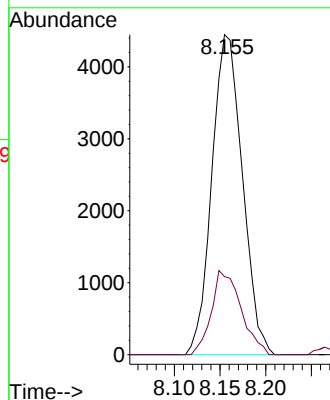
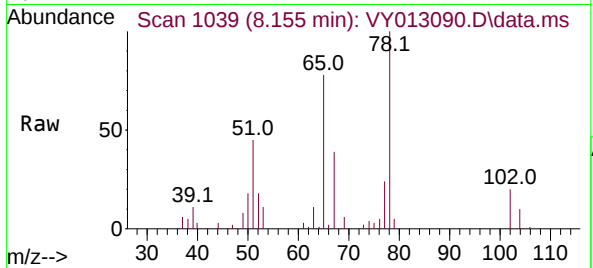




#40
Benzene
Concen: 11.388 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

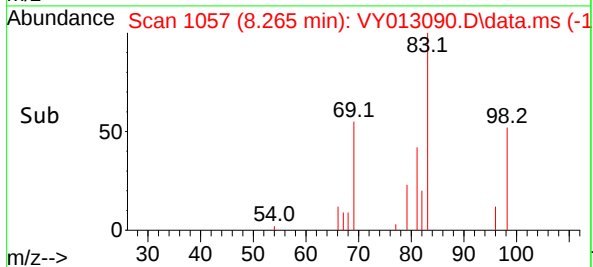
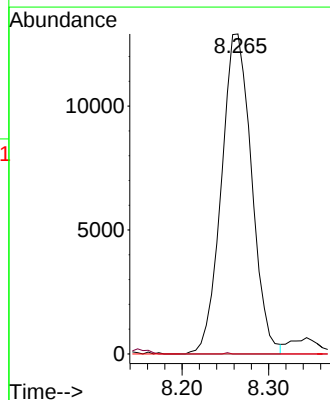
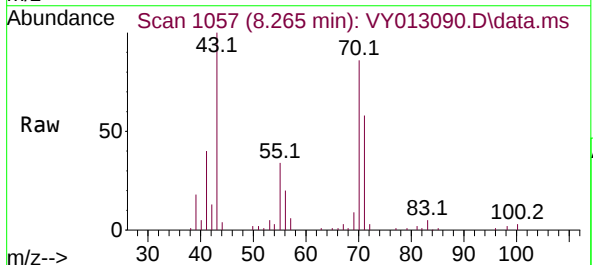
Instrument :
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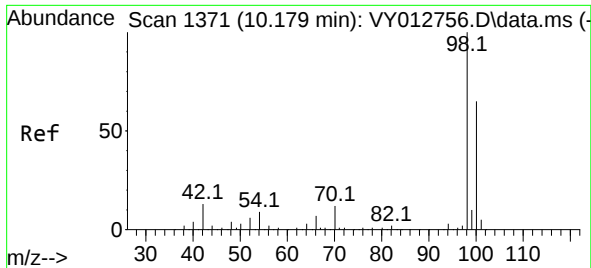
Tgt Ion: 78 Resp: 10321
Ion Ratio Lower Upper
78 100
77 24.4 19.4 29.0



#43
Isopropyl Acetate
Concen: 86.885 ug/l
RT: 8.265 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

Tgt Ion: 43 Resp: 31304
Ion Ratio Lower Upper
43 100
61 0.1 21.6 32.4#
87 0.0 9.9 14.9#

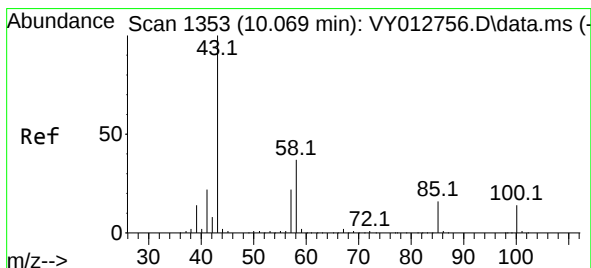
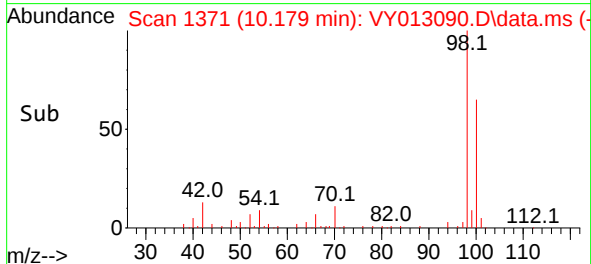
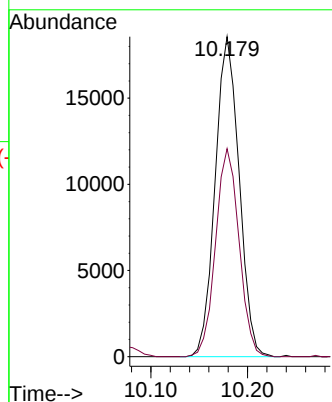
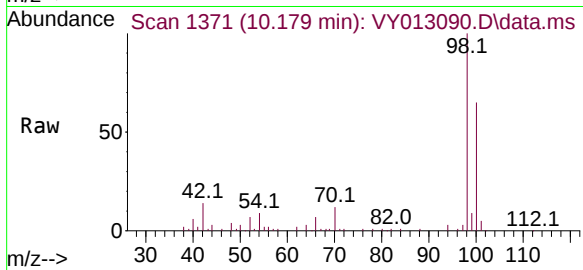




#50
Toluene-d8
Concen: 45.626 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

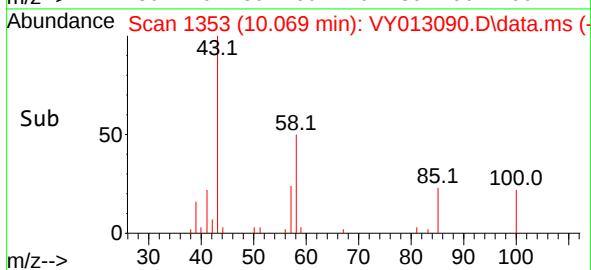
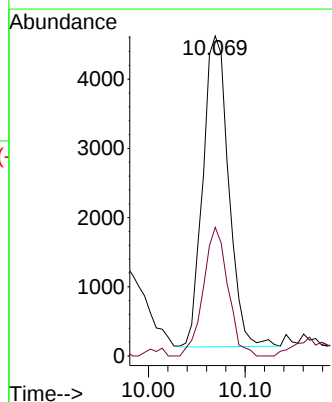
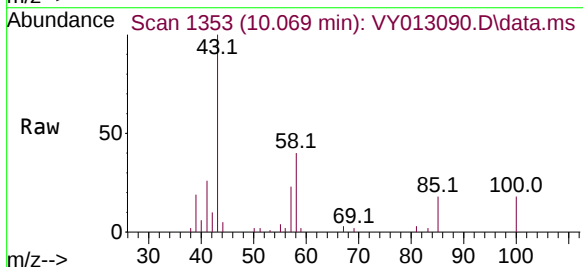
Instrument :
MSVOA_Y
ClientSampleId :
TRE-1715

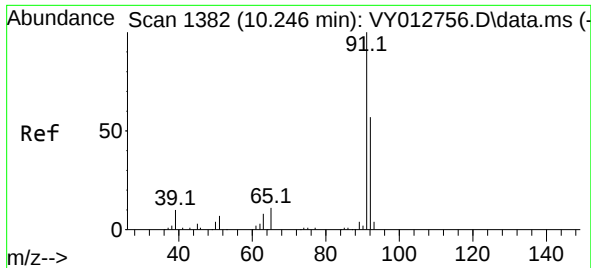
Tgt Ion: 98 Resp: 31891
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 42.510 ug/l
RT: 10.069 min Scan# 1353
Delta R.T. 0.000 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

Tgt Ion: 43 Resp: 8308
Ion Ratio Lower Upper
43 100
58 39.5 29.8 44.6

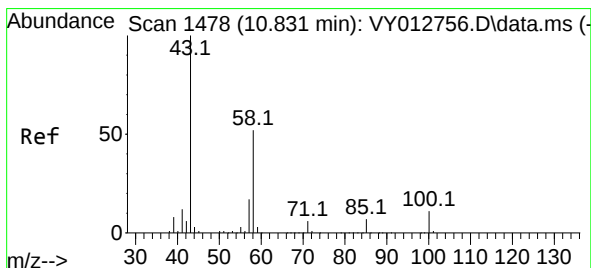
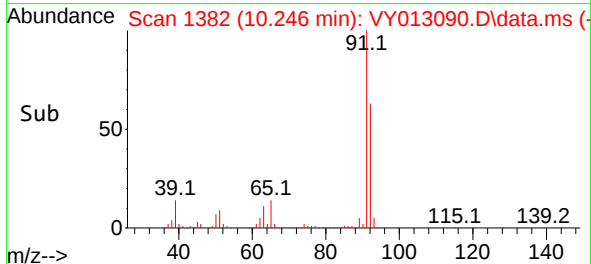
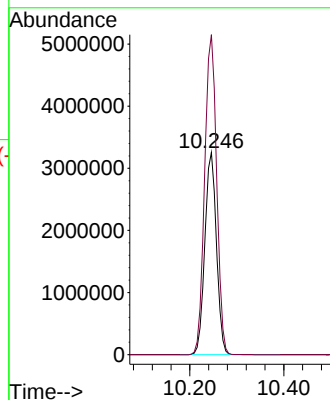
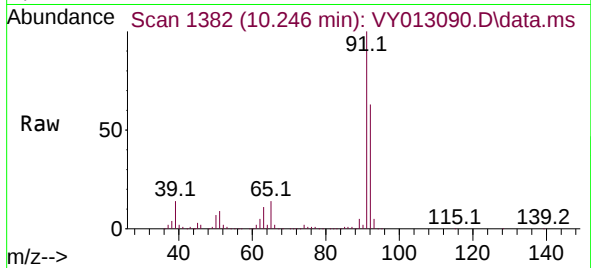




#52
Toluene
Concen: 10160.651 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. 0.000 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

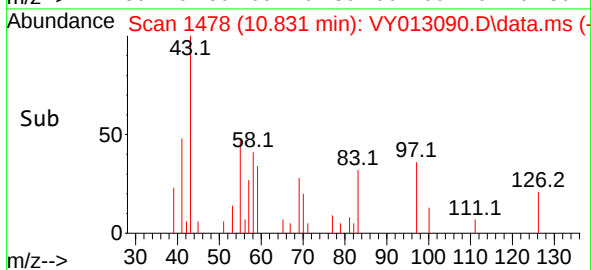
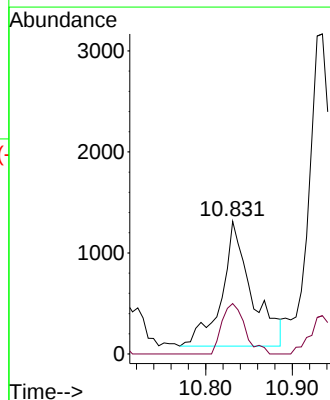
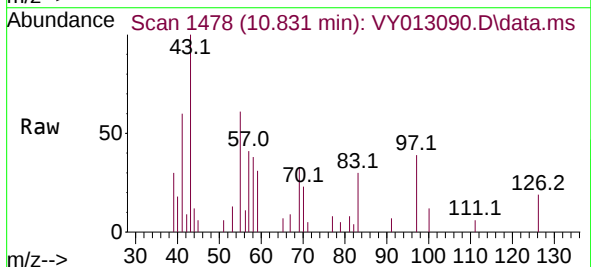
Instrument :
MSVOA_Y
ClientSampleId :
TRE-1715

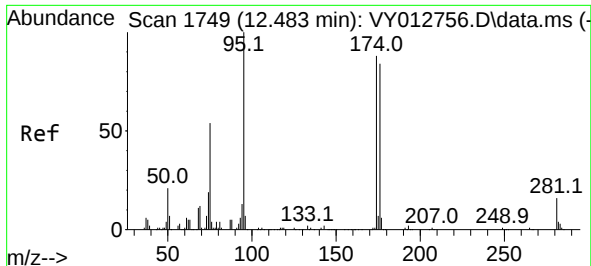
Tgt Ion: 92 Resp: 5553704
Ion Ratio Lower Upper
92 100
91 163.9 141.3 211.9



#59
2-Hexanone
Concen: 20.903 ug/l
RT: 10.831 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

Tgt Ion: 43 Resp: 2969
Ion Ratio Lower Upper
43 100
58 31.1 25.9 77.8

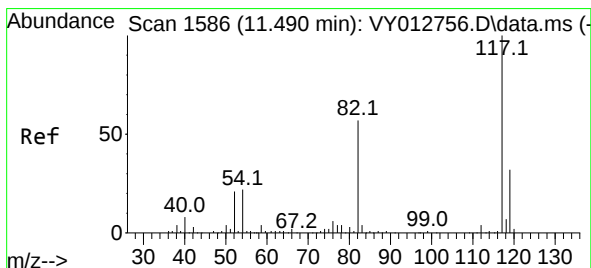
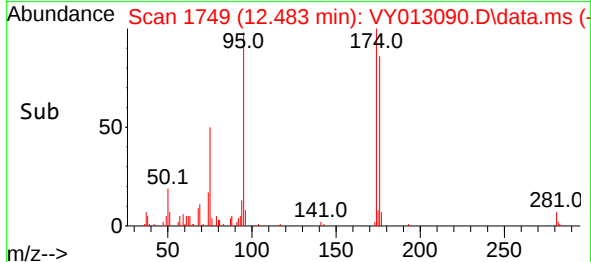
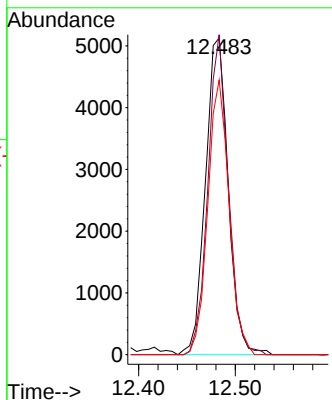
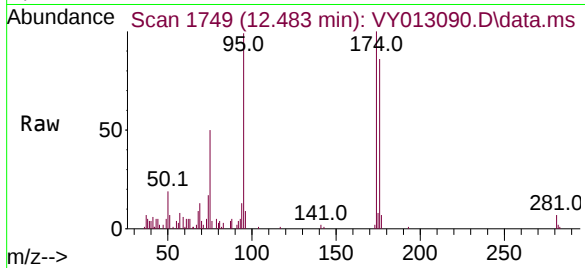




#62
4-Bromofluorobenzene
Concen: 35.707 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

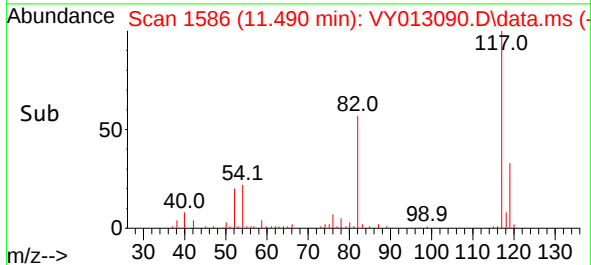
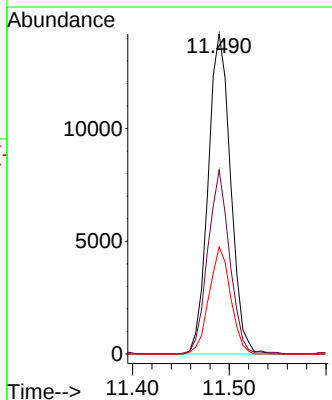
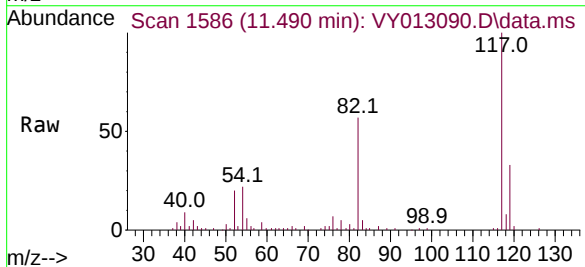
Instrument :
MSVOA_Y
ClientSampleId :
TRE-1715

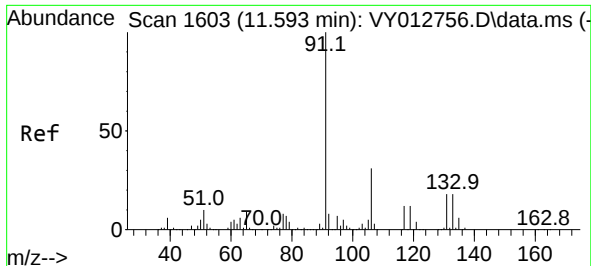
Tgt Ion:	95	Resp:	8424
Ion	Ratio	Lower	Upper
95	100		
174	90.2	0.0	176.6
176	80.7	0.0	170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

Tgt Ion:	117	Resp:	22909
Ion	Ratio	Lower	Upper
117	100		
82	57.4	45.4	68.0
119	33.5	25.6	38.4





#67

Ethyl Benzene

Concen: 5.445 ug/l

RT: 11.593 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY013090.D

Acq: 27 Mar 2023 14:34

Instrument :

MSVOA_Y

ClientSampleId :

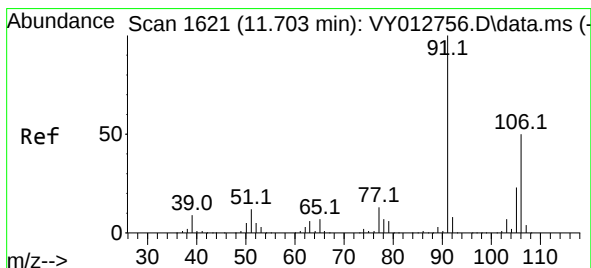
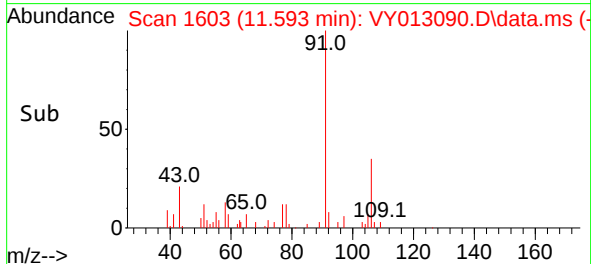
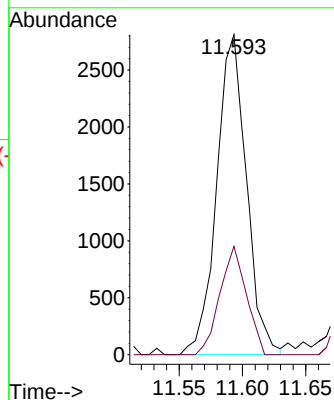
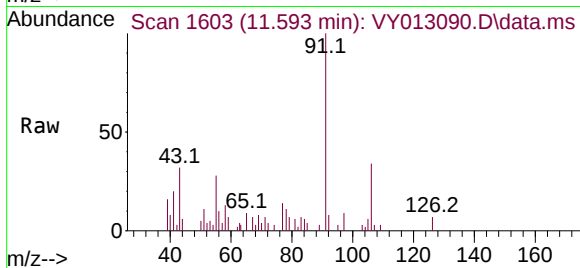
TRE-1715

Tgt Ion: 91 Resp: 4603

Ion Ratio Lower Upper

91 100

106 33.9 25.1 37.7



#68

m/p-Xylenes

Concen: 14.410 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. -0.006 min

Lab File: VY013090.D

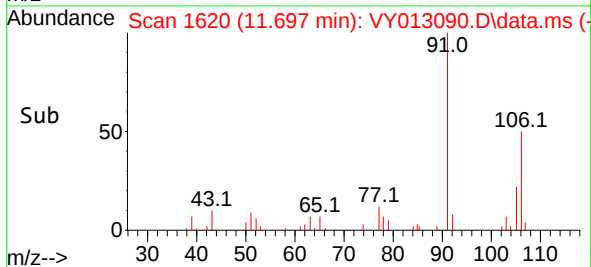
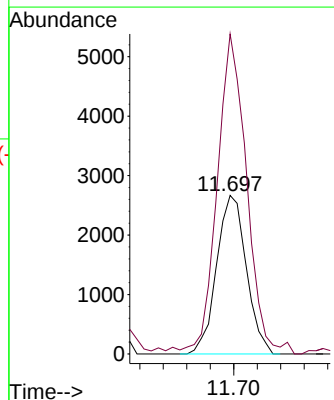
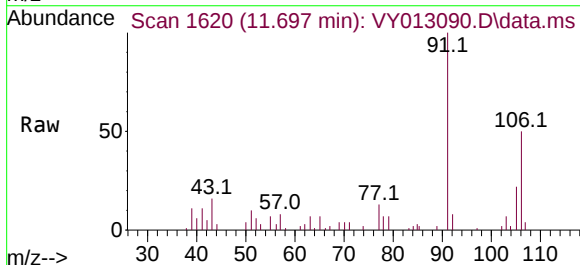
Acq: 27 Mar 2023 14:34

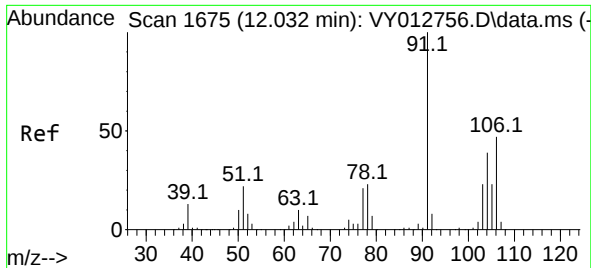
Tgt Ion:106 Resp: 4686

Ion Ratio Lower Upper

106 100

91 200.7 159.8 239.8

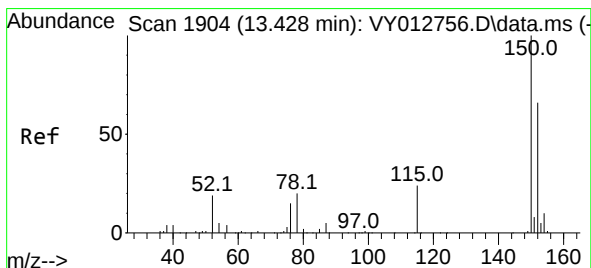
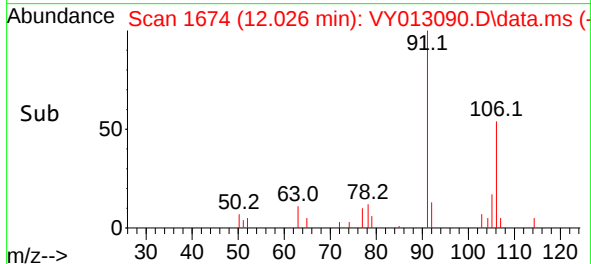
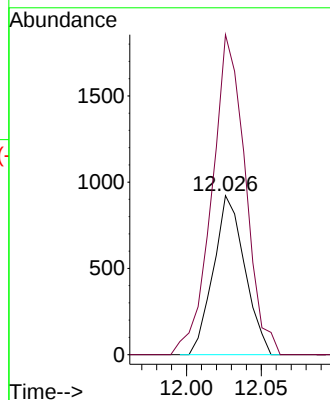
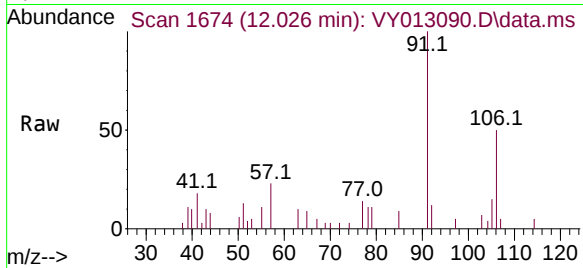




#69
o-Xylene
Concen: 4.418 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

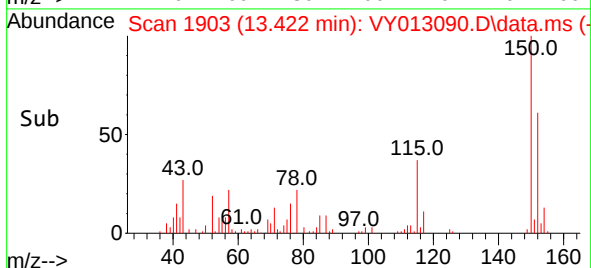
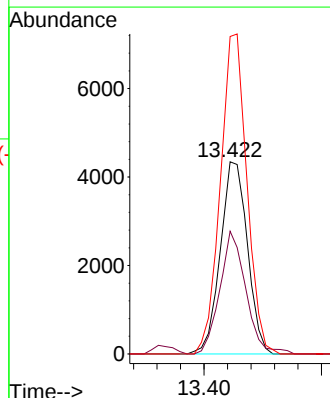
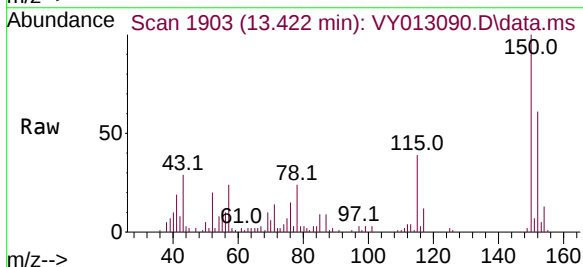
Instrument :
MSVOA_Y
ClientSampleId :
TRE-1715

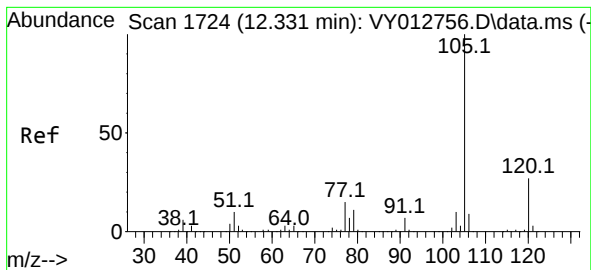
Tgt Ion:106 Resp: 1341
Ion Ratio Lower Upper
106 100
91 214.5 107.2 321.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

Tgt Ion:152 Resp: 6957
Ion Ratio Lower Upper
152 100
115 61.3 27.1 81.3
150 162.9 0.0 347.8





#73

Isopropylbenzene

Concen: 2.016 ug/l

RT: 12.325 min Scan# 1723

Delta R.T. -0.006 min

Lab File: VY013090.D

Acq: 27 Mar 2023 14:34

Instrument :

MSVOA_Y

ClientSampleId :

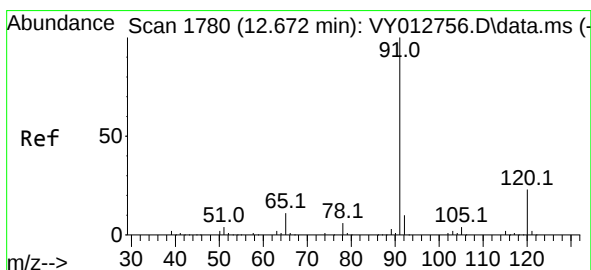
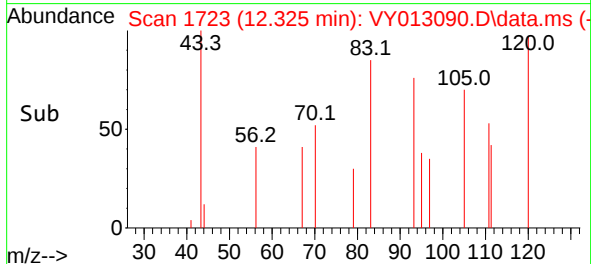
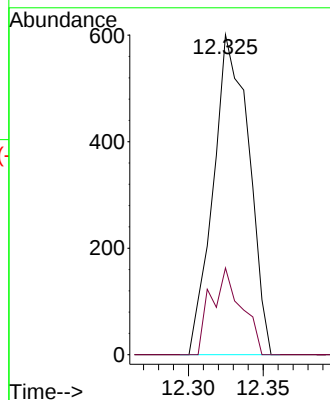
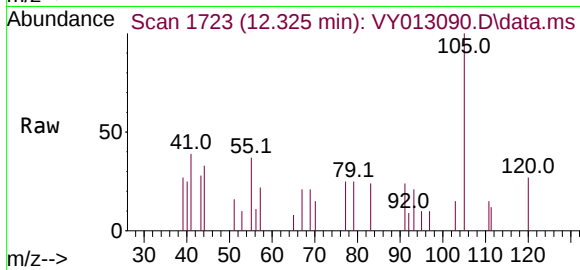
TRE-1715

Tgt Ion:105 Resp: 994

Ion Ratio Lower Upper

105 100

120 23.2 13.4 40.2



#78

n-propylbenzene

Concen: 2.757 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. -0.006 min

Lab File: VY013090.D

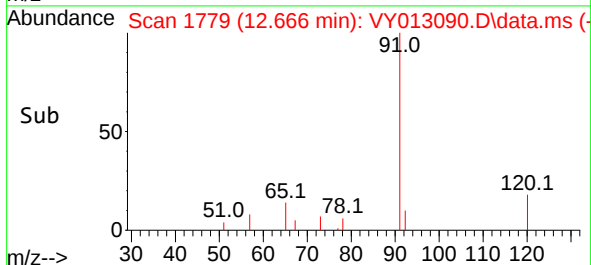
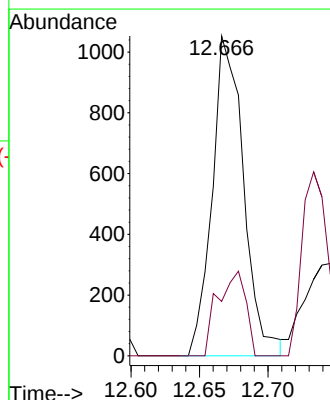
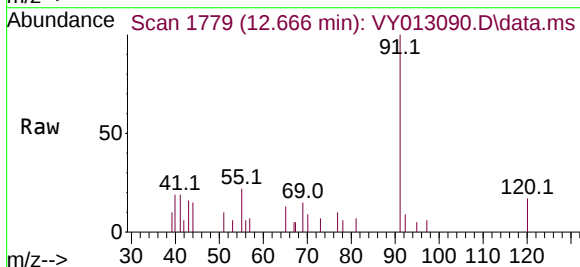
Acq: 27 Mar 2023 14:34

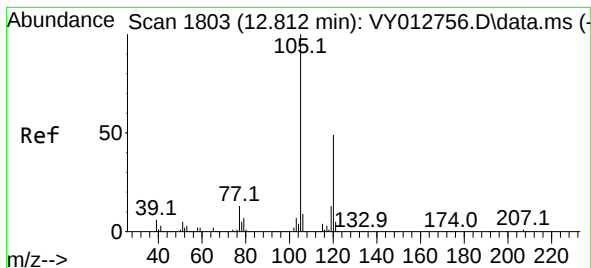
Tgt Ion: 91 Resp: 1676

Ion Ratio Lower Upper

91 100

120 23.6 11.6 34.8





#80

1,3,5-Trimethylbenzene

Concen: 3.382 ug/l

RT: 12.812 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY013090.D

Acq: 27 Mar 2023 14:34

Instrument :

MSVOA_Y

ClientSampleId :

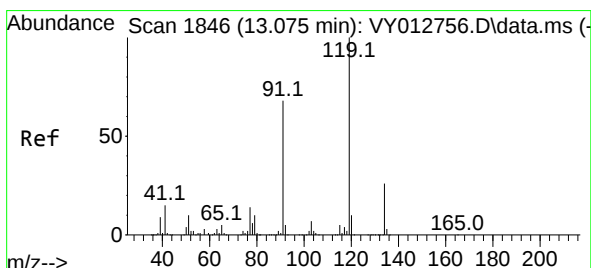
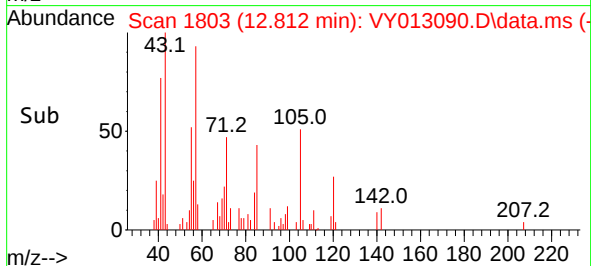
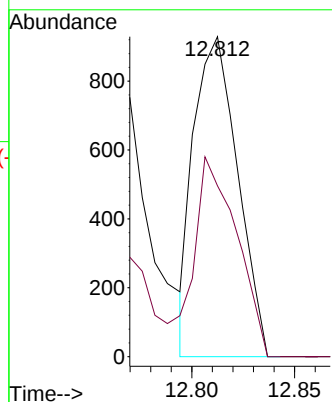
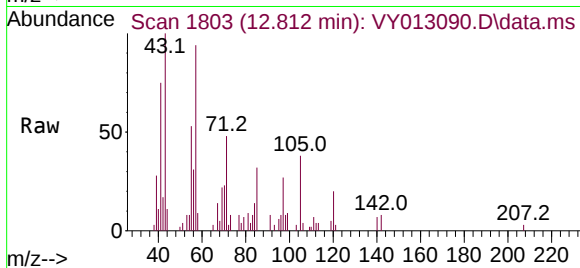
TRE-1715

Tgt Ion:105 Resp: 1376

Ion Ratio Lower Upper

105 100

120 61.3 24.8 74.4



#83

tert-Butylbenzene

Concen: 2.081 ug/l

RT: 13.312 min Scan# 1885

Delta R.T. 0.238 min

Lab File: VY013090.D

Acq: 27 Mar 2023 14:34

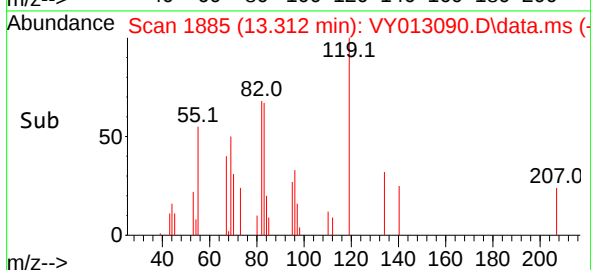
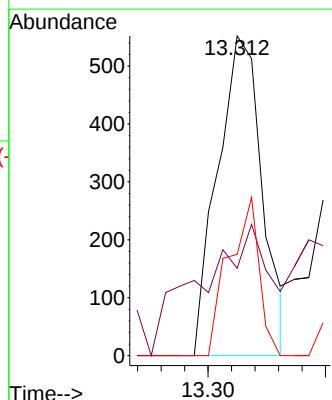
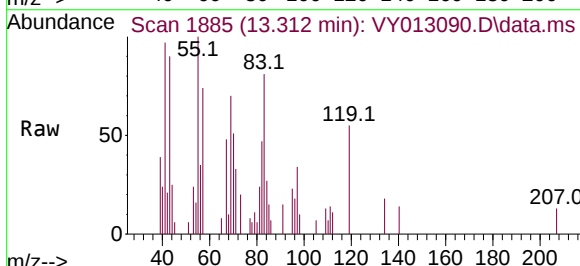
Tgt Ion:119 Resp: 731

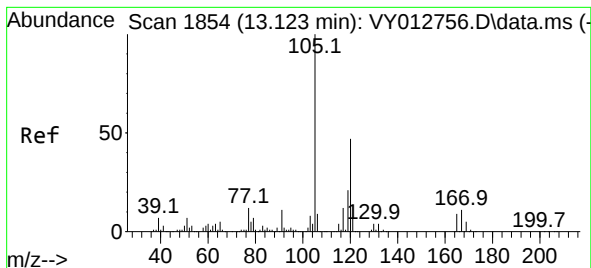
Ion Ratio Lower Upper

119 100

91 64.4 32.8 98.3

134 33.4 13.6 40.8





#84

1,2,4-Trimethylbenzene

Concen: 12.660 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.000 min

Lab File: VY013090.D

Acq: 27 Mar 2023 14:34

Instrument :

MSVOA_Y

ClientSampleId :

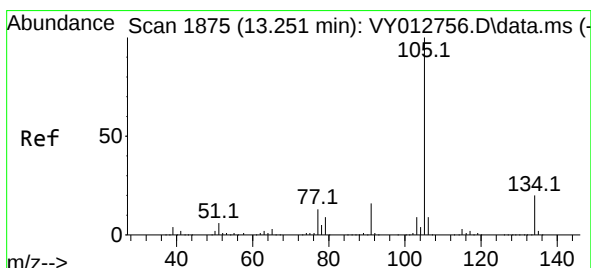
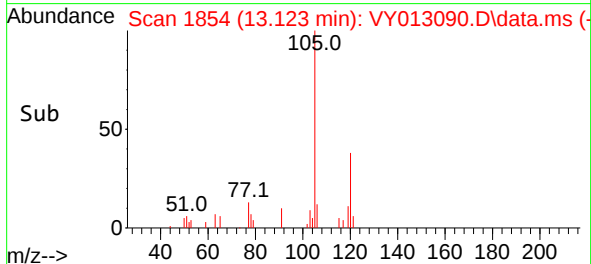
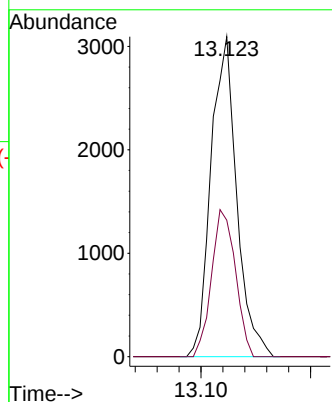
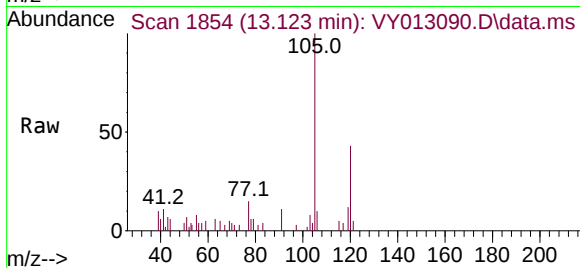
TRE-1715

Tgt Ion:105 Resp: 5037

Ion Ratio Lower Upper

105 100

120 42.7 23.0 69.0



#85

sec-Butylbenzene

Concen: 1.713 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY013090.D

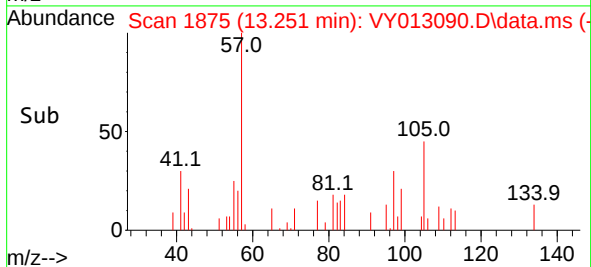
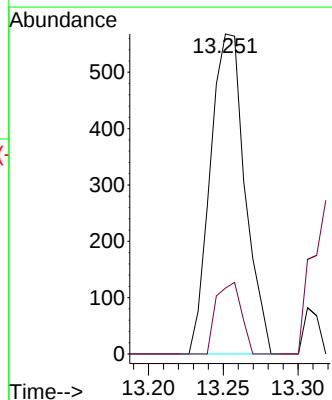
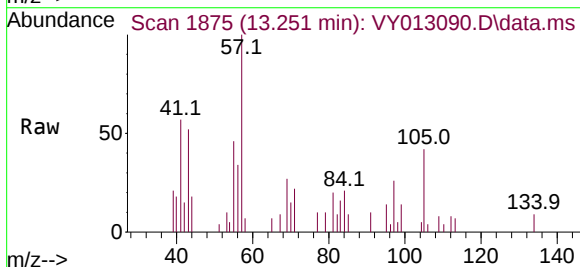
Acq: 27 Mar 2023 14:34

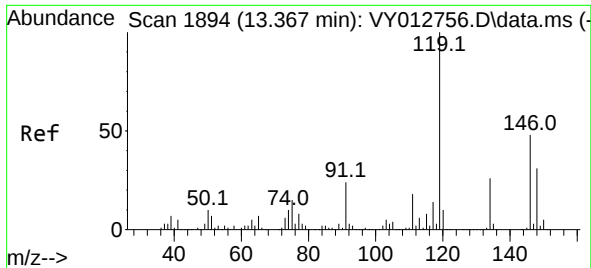
Tgt Ion:105 Resp: 918

Ion Ratio Lower Upper

105 100

134 16.2 10.4 31.1

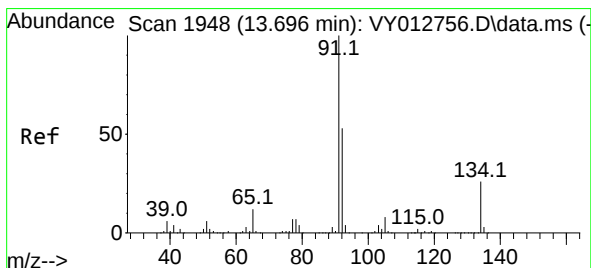
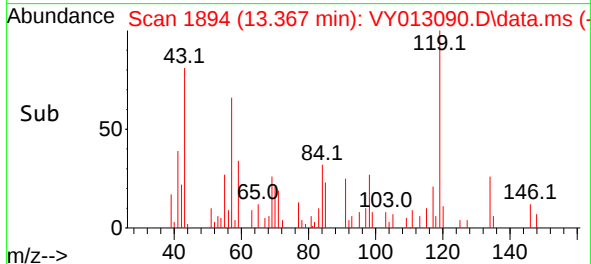
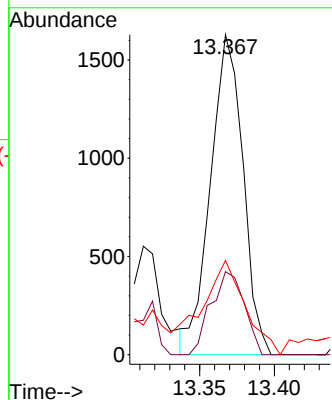
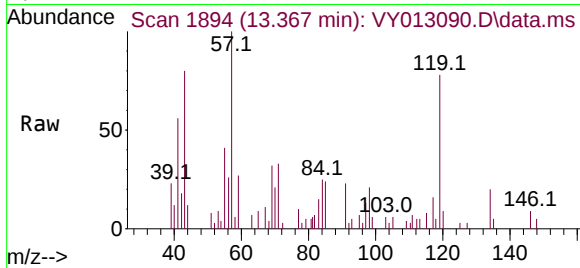




#86
p-Isopropyltoluene
Concen: 5.618 ug/l
RT: 13.367 min Scan# 119
Delta R.T. 0.000 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

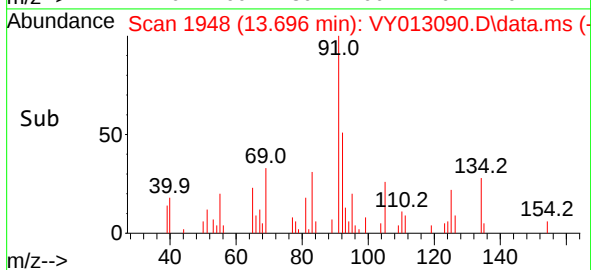
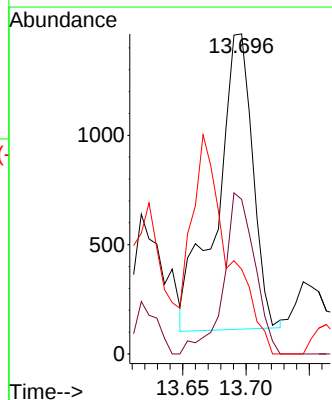
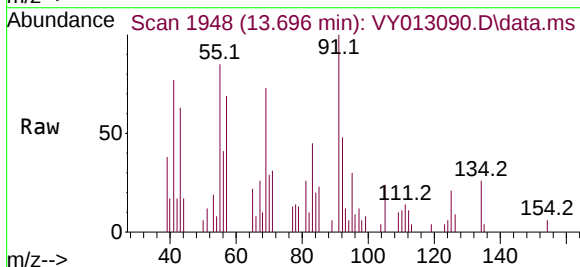
Instrument :
MSVOA_Y
ClientSampleId :
TRE-1715

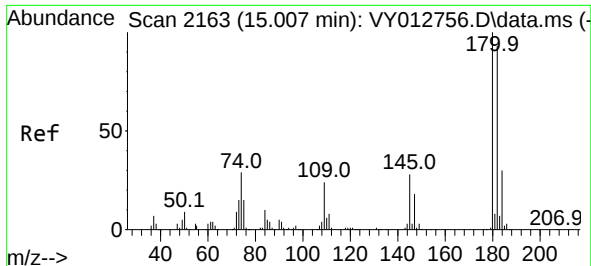
Tgt Ion:	119	Resp:	2460
Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.2	39.6
91	39.6	11.8	35.3#



#89
n-Butylbenzene
Concen: 6.353 ug/l
RT: 13.696 min Scan# 1948
Delta R.T. 0.000 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

Tgt Ion:	91	Resp:	2663
Ion	Ratio	Lower	Upper
91	100		
92	47.4	26.4	79.0
134	0.0	13.0	38.9#

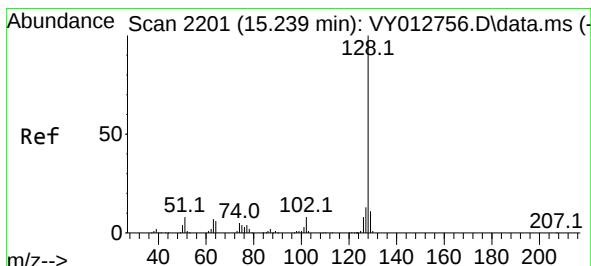
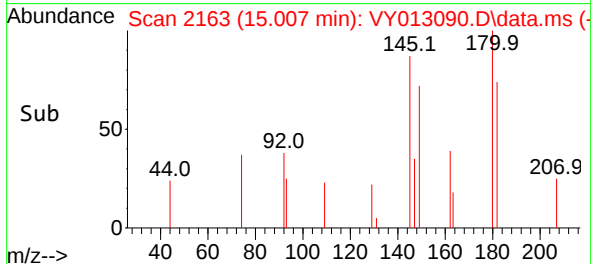
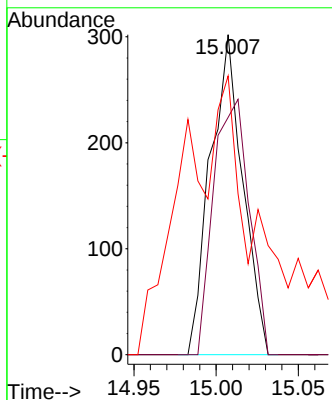
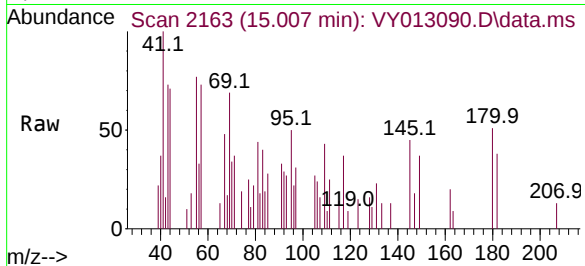




#93
1,2,4-Trichlorobenzene
Concen: 3.220 ug/l
RT: 15.007 min Scan# 2163
Delta R.T. 0.000 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

Instrument :
MSVOA_Y
ClientSampleId :
TRE-1715

Tgt Ion:180 Resp: 414
Ion Ratio Lower Upper
180 100
182 88.2 46.7 140.1
145 61.8 14.6 43.8#



#95
Naphthalene
Concen: 44.812 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.006 min
Lab File: VY013090.D
Acq: 27 Mar 2023 14:34

Tgt Ion:128 Resp: 11546
Ion Ratio Lower Upper
128 100
127 13.8 10.3 15.5
129 11.5 8.6 13.0

