

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050823\
 Data File : VY013651.D
 Acq On : 08 May 2023 15:59
 Operator : KP/MD
 Sample : 02658-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 503

Quant Time: May 09 04:58:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:39:58 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.783	168	201602	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	344868	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	275001	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	90019	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	133076	60.215	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 120.440%			
35) Dibromofluoromethane	7.716	113	114396	52.740	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.480%			
50) Toluene-d8	10.179	98	390334	50.586	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.180%			
62) 4-Bromofluorobenzene	12.477	95	104979	40.356	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 80.720%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.979	59	918	4.328	ug/l #	97
13) Acrolein	3.741	56	170	Below Cal	#	60
14) Allyl chloride	4.430	41	11678	3.004	ug/l #	32
15) Acrylonitrile	5.180	53	2352	3.183	ug/l #	84
16) Acetone	3.948	43	55010	63.207	ug/l	94
17) Carbon Disulfide	4.186	76	7230	1.062	ug/l #	93
20) Methylene Chloride	4.704	84	20391	Below Cal	#	79
25) 2-Butanone	6.990	43	8560	7.755	ug/l	100
31) Cyclohexane	7.783	56	5900	1.491	ug/l #	22
36) 1,1-Dichloropropene	7.783	75	15823	4.395	ug/l #	49
37) Ethyl Acetate	6.990	43	8560	3.160	ug/l #	69
38) Carbon Tetrachloride	7.783	117	20635	5.469	ug/l #	16
52) Toluene	10.240	92	47524	7.788	ug/l	98
59) 2-Hexanone	10.831	43	3495	1.887	ug/l	99
67) Ethyl Benzene	11.593	91	11044	1.050	ug/l	94
68) m/p-Xylenes	11.697	106	18572	4.644	ug/l	98
69) o-Xylene	12.026	106	8511	2.250	ug/l	89
76) 1,2,3-Trichloropropane	12.477	75	56385	46.445	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.806	105	7026	1.264	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	56385	95.006	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.117	105	27711	5.129	ug/l	96
86) p-Isopropyltoluene	13.367	119	44521	7.662	ug/l	91
95) Naphthalene	15.233	128	18843	5.132	ug/l #	91

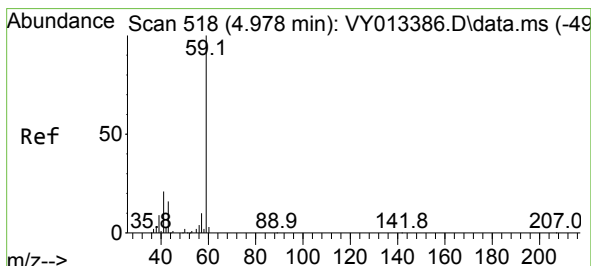
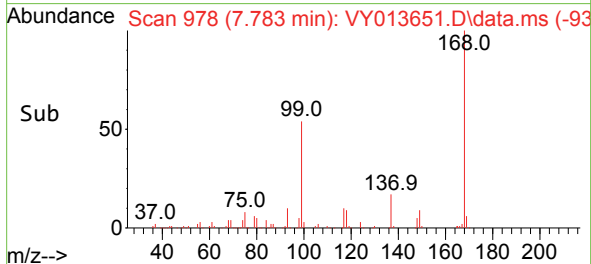
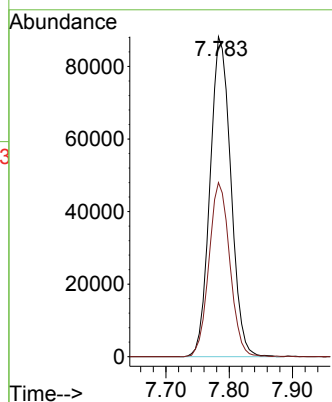
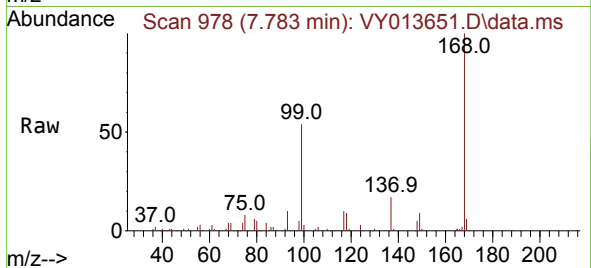
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

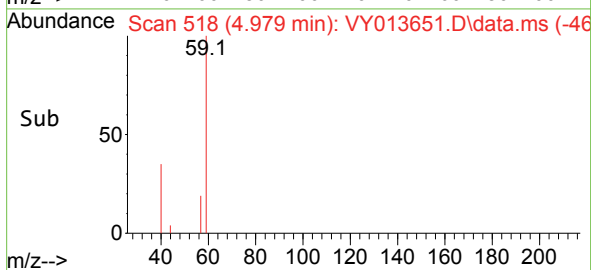
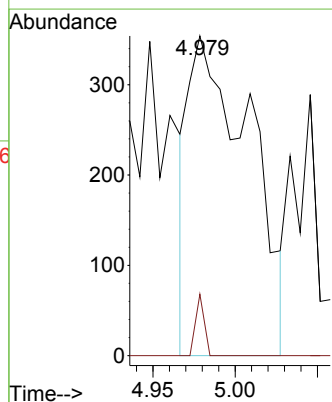
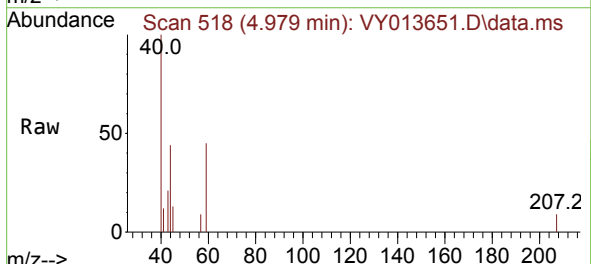
Instrument :
MSVOA_Y
ClientSampleId :
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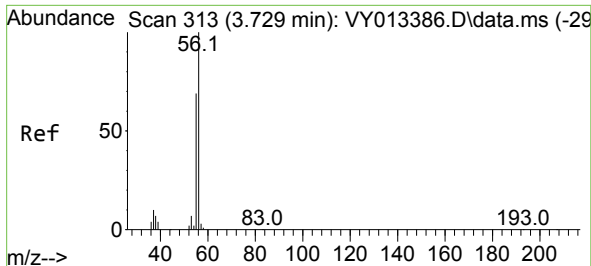
Tgt Ion:168 Resp: 201602
Ion Ratio Lower Upper
168 100
99 54.4 41.8 62.6



#11
Tert butyl alcohol
Concen: 4.328 ug/l
RT: 4.979 min Scan# 518
Delta R.T. 0.001 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

Tgt Ion: 59 Resp: 918
Ion Ratio Lower Upper
59 100
57 2.7 3.0 4.4#

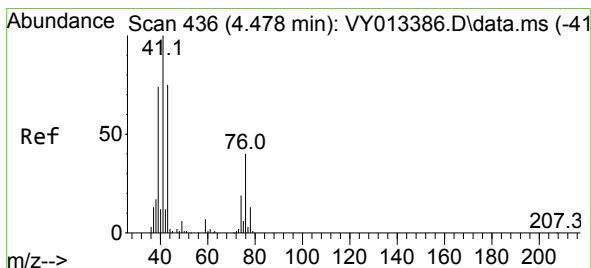
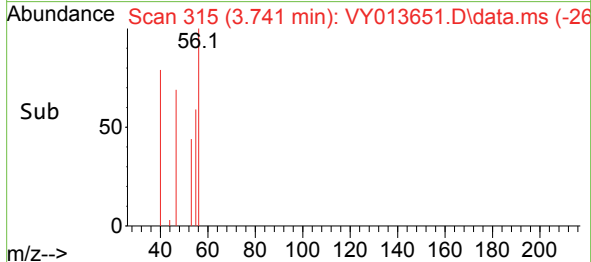
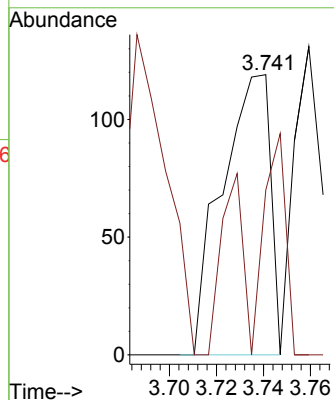
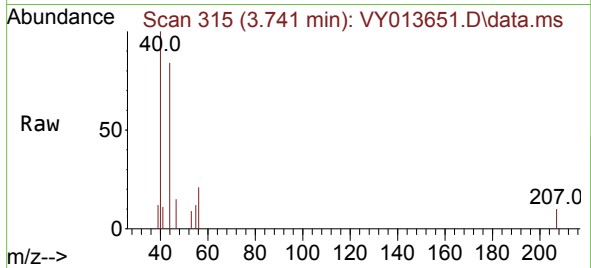




#13
Acrolein
Concen: Below Cal
RT: 3.741 min Scan# 313
Delta R.T. 0.012 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

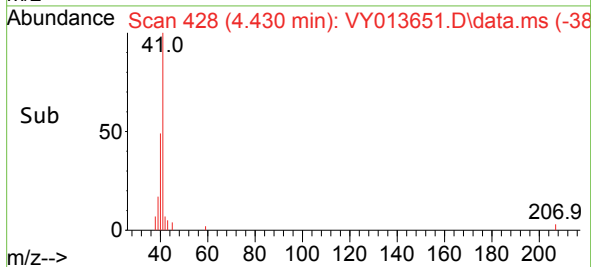
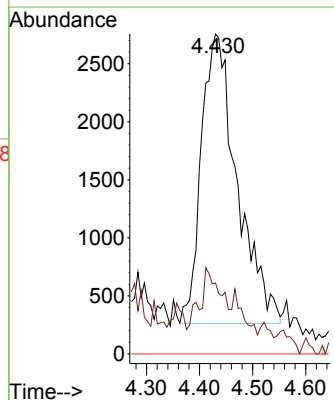
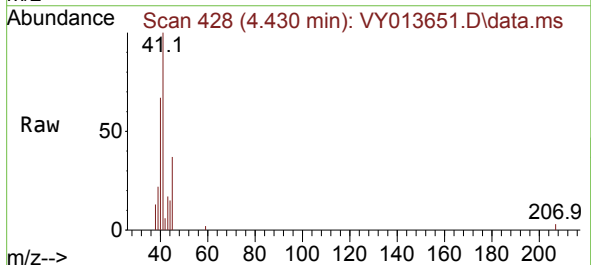
Instrument :
MSVOA_Y
ClientSampleId :
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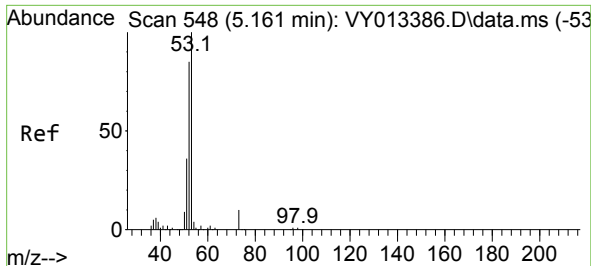
Tgt Ion: 56 Resp: 170
Ion Ratio Lower Upper
56 100
55 35.3 54.1 81.1#



#14
Allyl chloride
Concen: 3.004 ug/l
RT: 4.430 min Scan# 428
Delta R.T. -0.048 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

Tgt Ion: 41 Resp: 11678
Ion Ratio Lower Upper
41 100
39 12.3 56.6 85.0#
76 0.0 30.5 45.7#





#15

Acrylonitrile

Concen: 3.183 ug/l

RT: 5.180 min Scan# 51

Delta R.T. 0.019 min

Lab File: VY013651.D

Acq: 08 May 2023 15:59

Instrument :

MSVOA_Y

ClientSampleId :

503

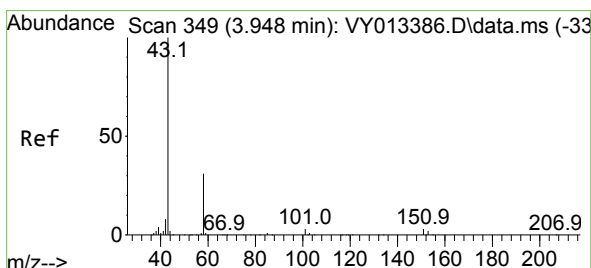
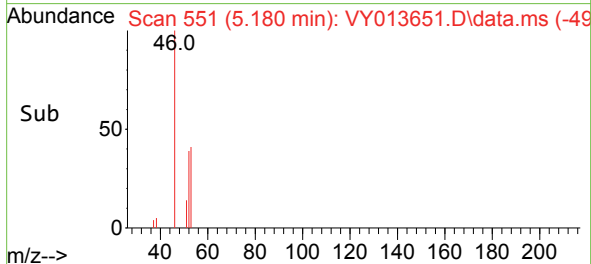
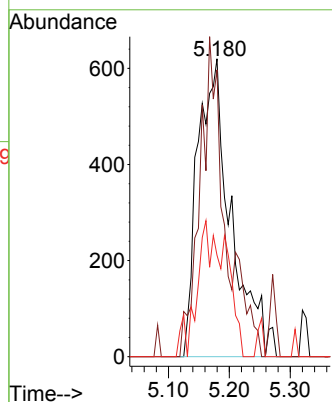
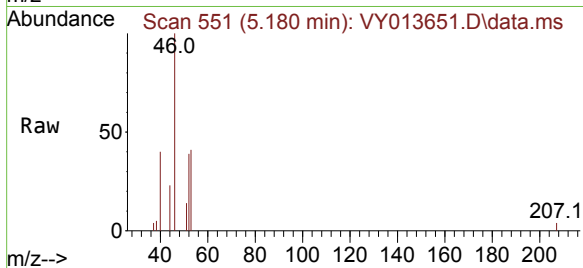
Tgt Ion: 53 Resp: 2352

Ion Ratio Lower Upper

53 100

52 68.4 65.4 98.0

51 26.4 29.3 43.9#



#16

Acetone

Concen: 63.207 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.000 min

Lab File: VY013651.D

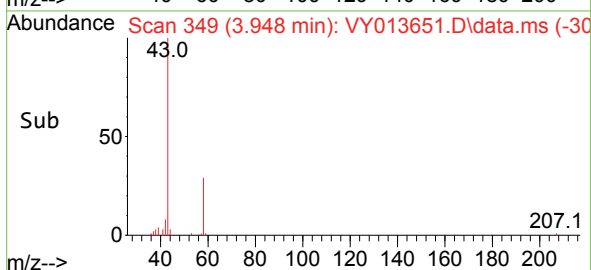
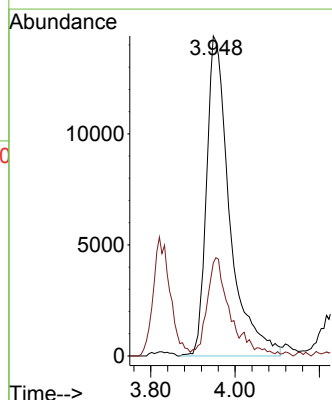
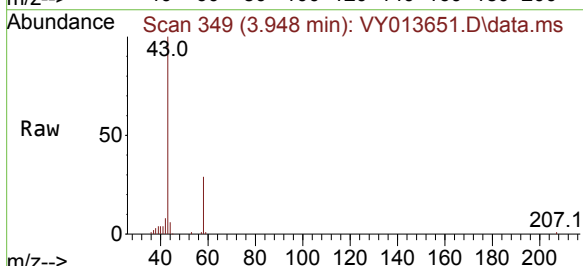
Acq: 08 May 2023 15:59

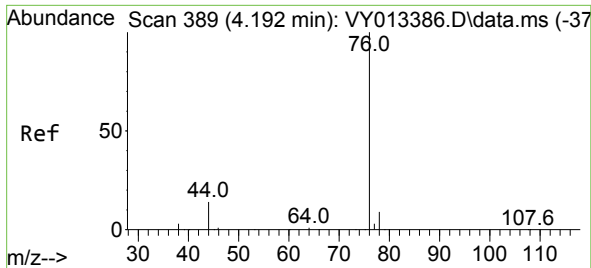
Tgt Ion: 43 Resp: 55010

Ion Ratio Lower Upper

43 100

58 28.5 25.4 38.0





#17

Carbon Disulfide

Concen: 1.062 ug/l

RT: 4.186 min Scan# 31

Delta R.T. -0.006 min

Lab File: VY013651.D

Acq: 08 May 2023 15:59

Instrument :

MSVOA_Y

ClientSampleId :

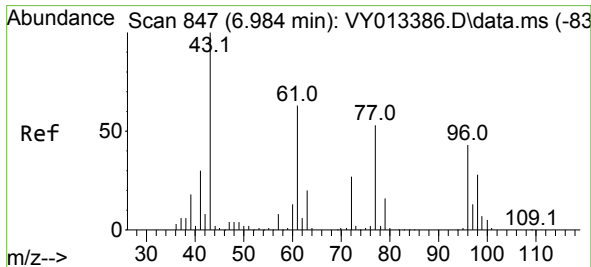
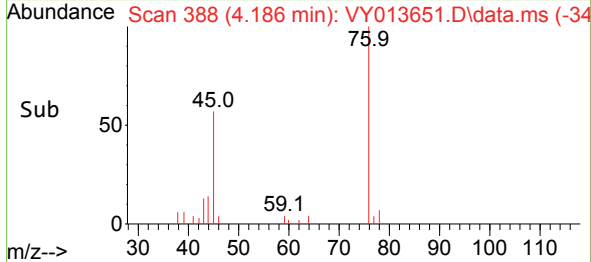
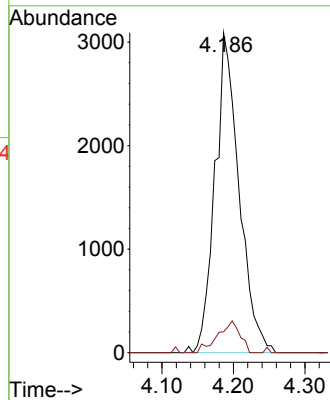
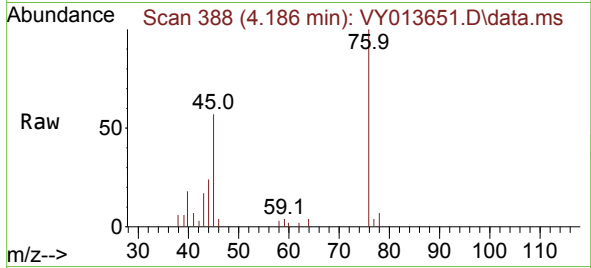
503

Tgt Ion: 76 Resp: 7230

Ion Ratio Lower Upper

76 100

78 6.5 7.2 10.8#



#25

2-Butanone

Concen: 7.755 ug/l

RT: 6.990 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY013651.D

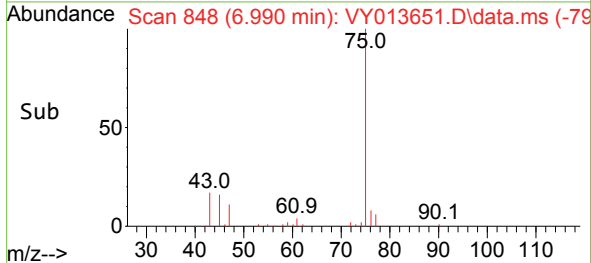
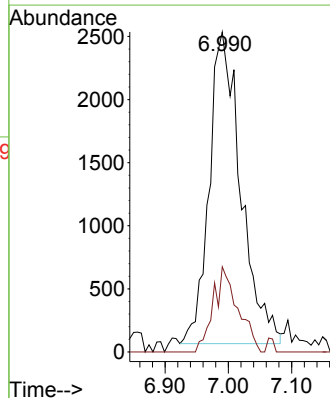
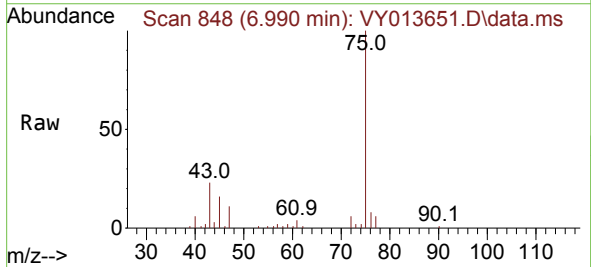
Acq: 08 May 2023 15:59

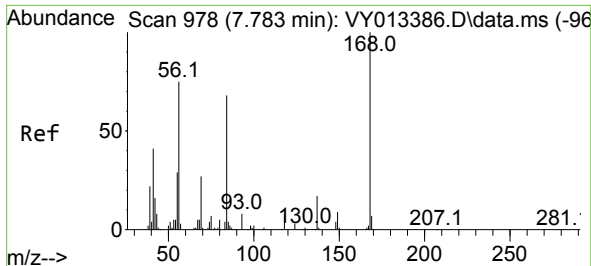
Tgt Ion: 43 Resp: 8560

Ion Ratio Lower Upper

43 100

72 27.3 21.9 32.9

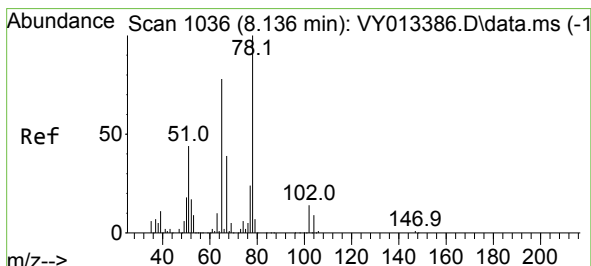
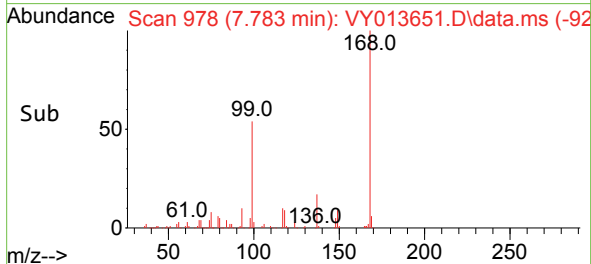
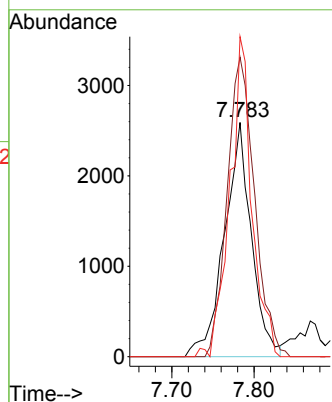
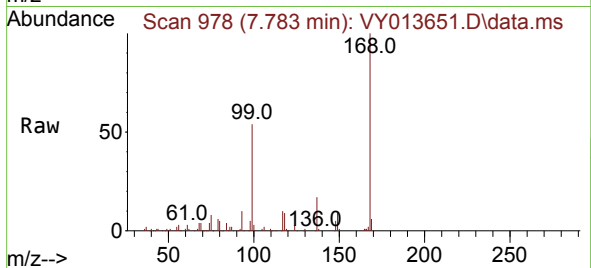




#31
Cyclohexane
Concen: 1.491 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

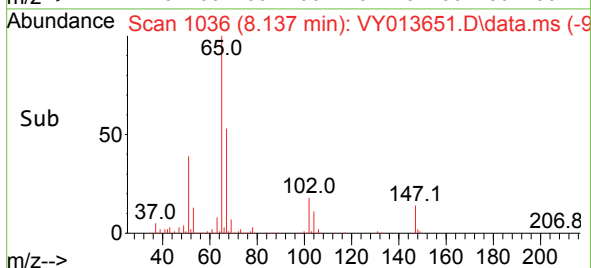
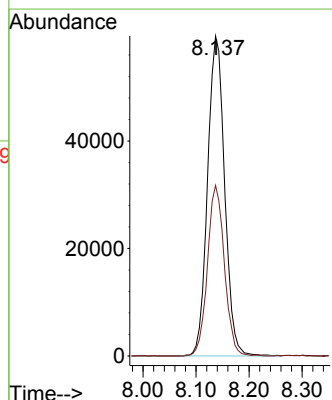
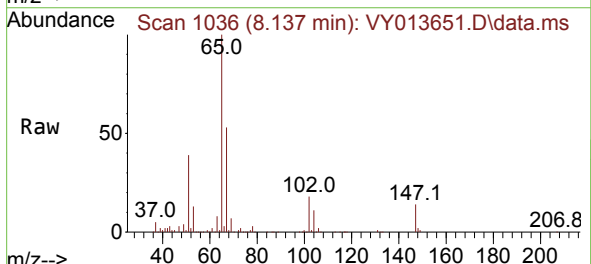
Instrument :
MSVOA_Y
ClientSampleId :
503

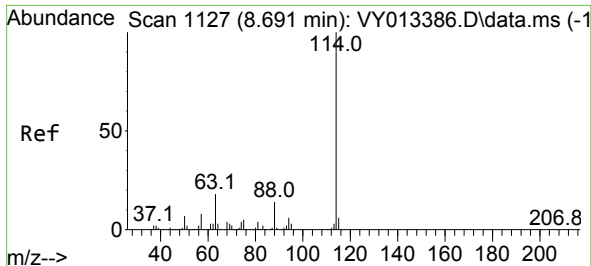
Tgt Ion: 56 Resp: 5900
Ion Ratio Lower Upper
56 100
69 127.8 29.2 43.8#
84 136.6 73.0 109.6#



#33
1,2-Dichloroethane-d4
Concen: 60.215 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

Tgt Ion: 65 Resp: 133076
Ion Ratio Lower Upper
65 100
67 52.9 0.0 103.4

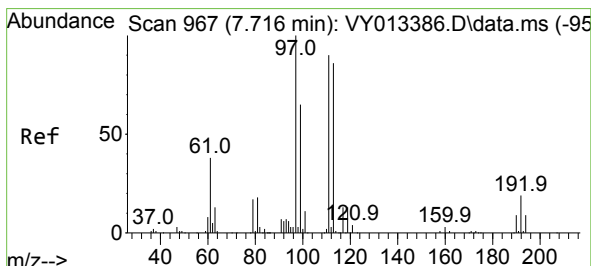
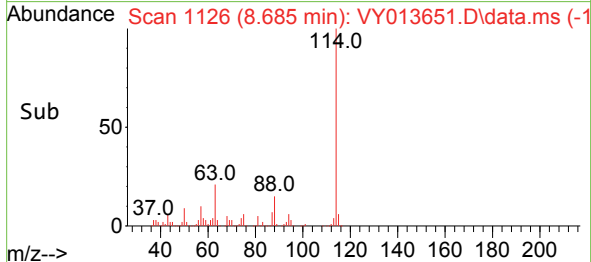
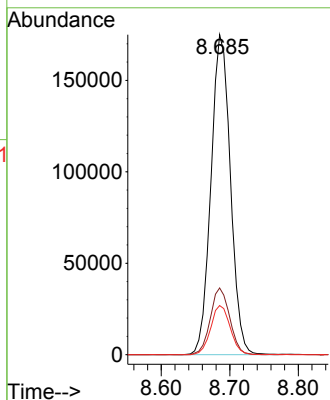
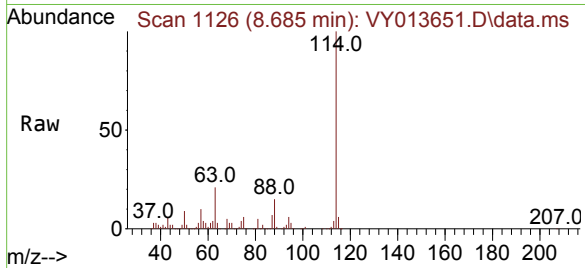




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

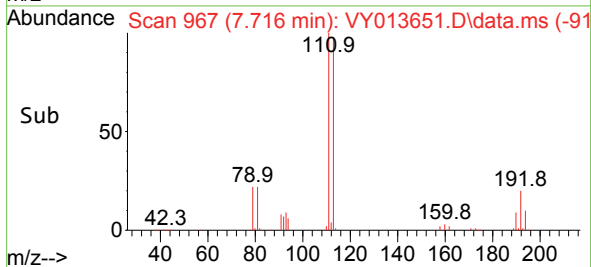
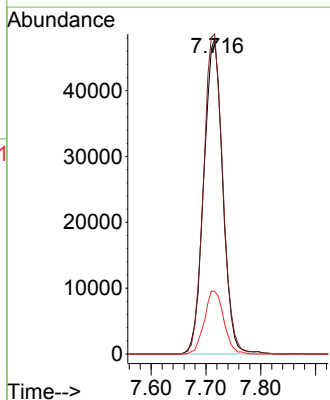
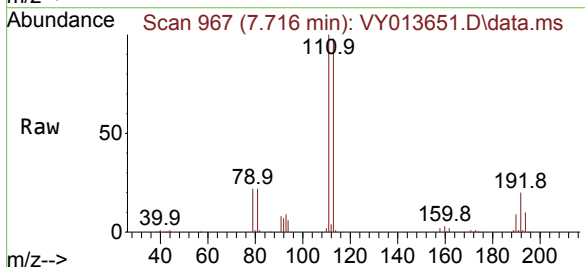
Instrument :
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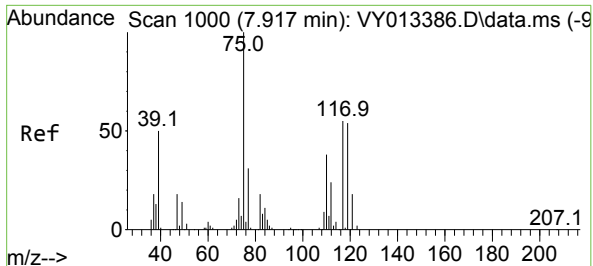
Tgt Ion:114 Resp: 344868
Ion Ratio Lower Upper
114 100
63 20.9 0.0 36.6
88 15.4 0.0 28.8



#35
Dibromofluoromethane
Concen: 52.740 ug/l
RT: 7.716 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

Tgt Ion:113 Resp: 114396
Ion Ratio Lower Upper
113 100
111 103.0 82.2 123.2
192 20.5 16.7 25.1

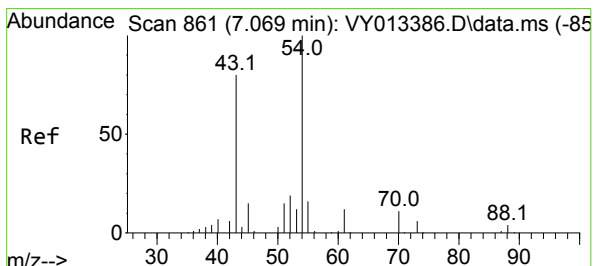
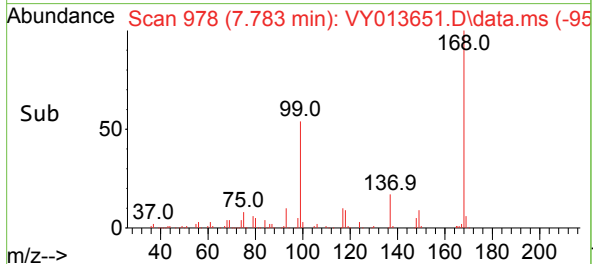
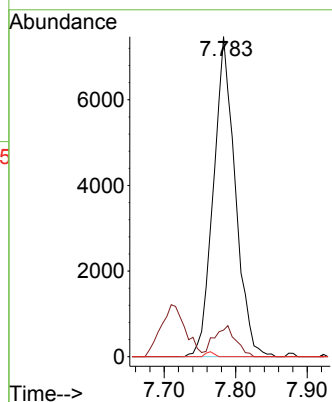
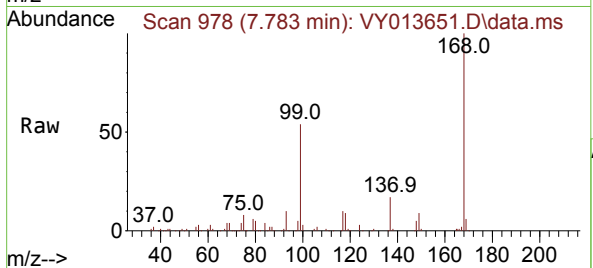




#36
1,1-Dichloropropene
Concen: 4.395 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

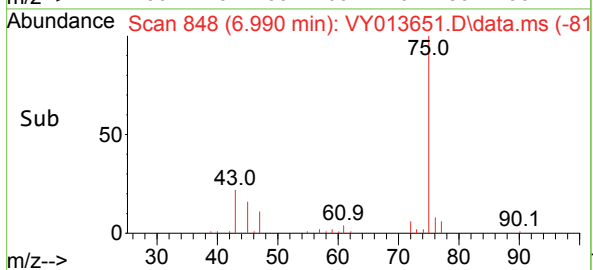
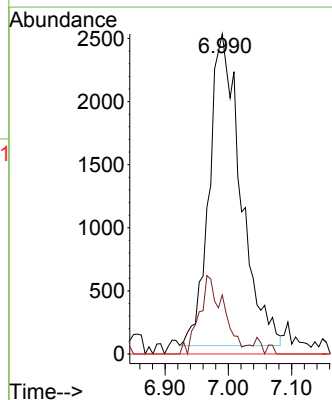
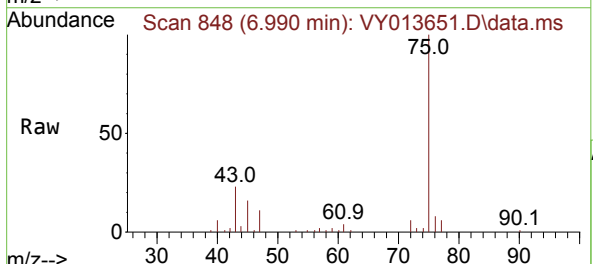
Instrument :
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ClientSampleId :
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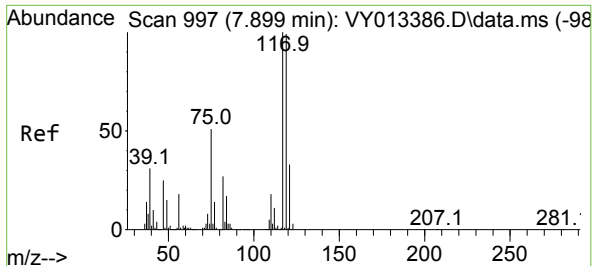
Tgt Ion: 75 Resp: 15823
Ion Ratio Lower Upper
75 100
110 9.7 18.7 56.1#
77 0.0 24.6 37.0#



#37
Ethyl Acetate
Concen: 3.160 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.079 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

Tgt Ion: 43 Resp: 8560
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.0#
70 0.0 7.9 11.9#

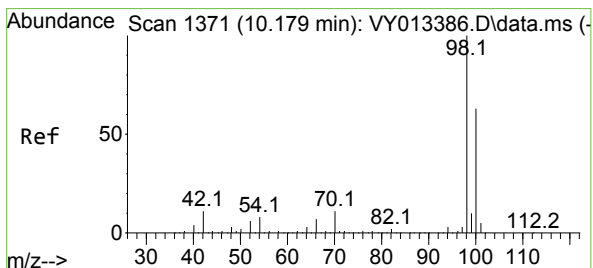
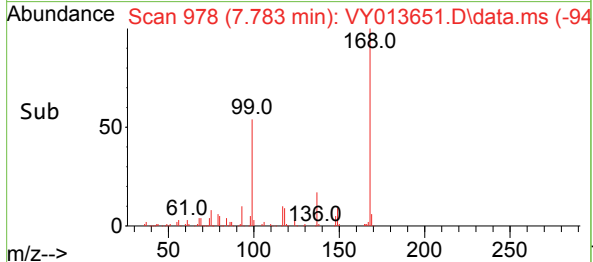
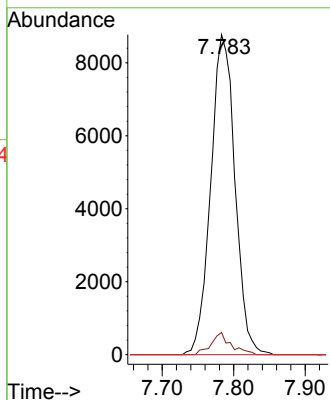
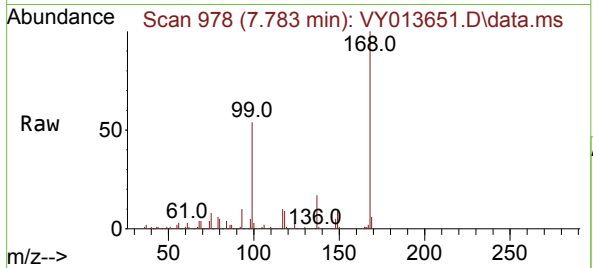




#38
Carbon Tetrachloride
Concen: 5.469 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

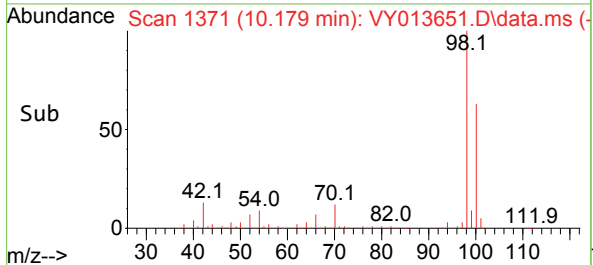
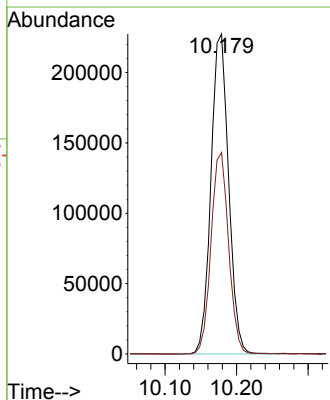
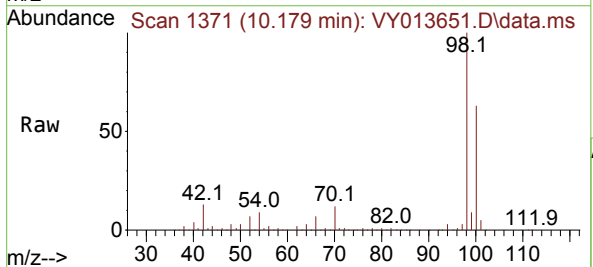
Instrument :
MSVOA_Y
ClientSampleId :
503

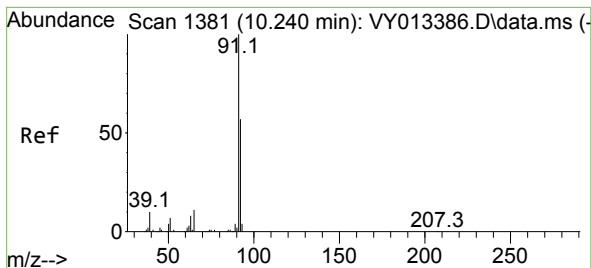
Tgt Ion:117 Resp: 20635
Ion Ratio Lower Upper
117 100
119 7.0 79.0 118.6#
121 0.0 26.6 40.0#



#50
Toluene-d8
Concen: 50.586 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

Tgt Ion: 98 Resp: 390334
Ion Ratio Lower Upper
98 100
100 62.6 50.5 75.7





#52

Toluene

Concen: 7.788 ug/l

RT: 10.240 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY013651.D

Acq: 08 May 2023 15:59

Instrument :

MSVOA_Y

ClientSampleId :

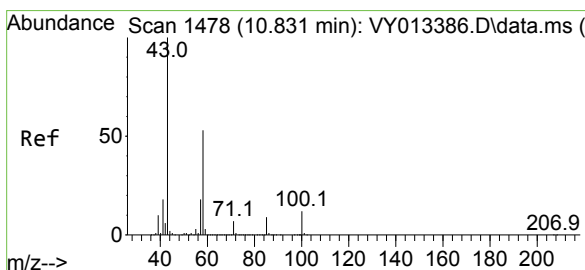
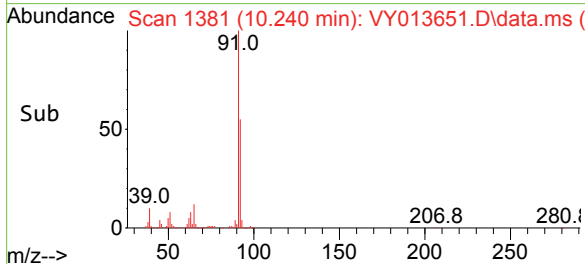
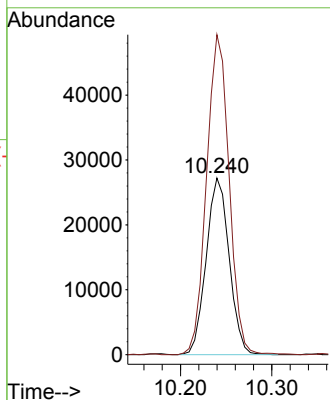
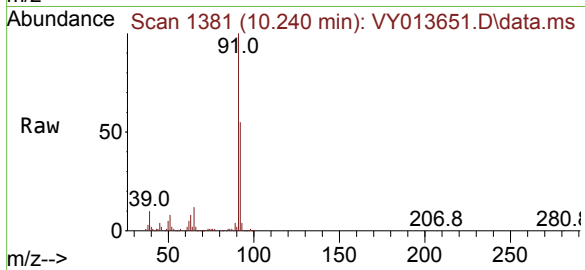
503

Tgt Ion: 92 Resp: 47524

Ion Ratio Lower Upper

92 100

91 178.1 140.2 210.4



#59

2-Hexanone

Concen: 1.887 ug/l

RT: 10.831 min Scan# 1478

Delta R.T. 0.000 min

Lab File: VY013651.D

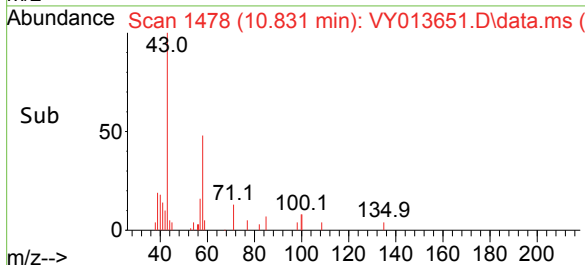
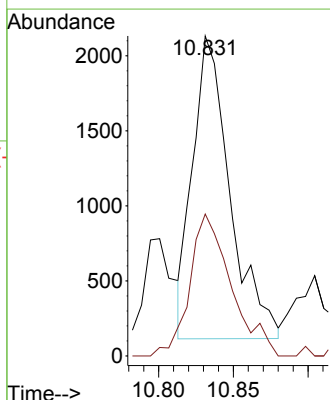
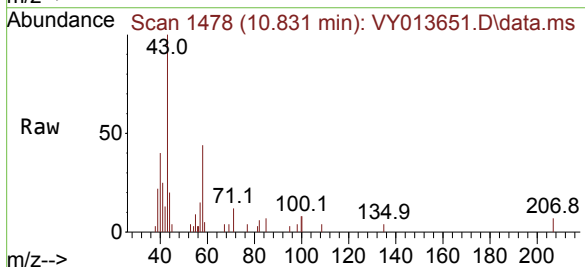
Acq: 08 May 2023 15:59

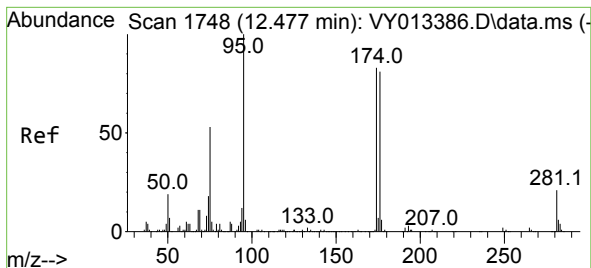
Tgt Ion: 43 Resp: 3495

Ion Ratio Lower Upper

43 100

58 52.1 26.3 78.8

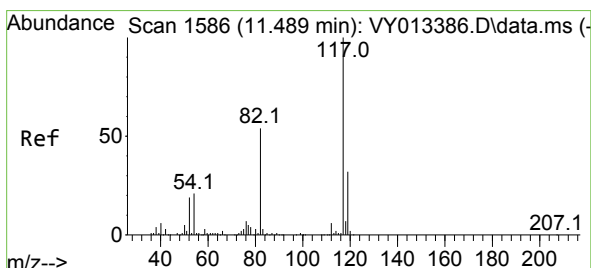
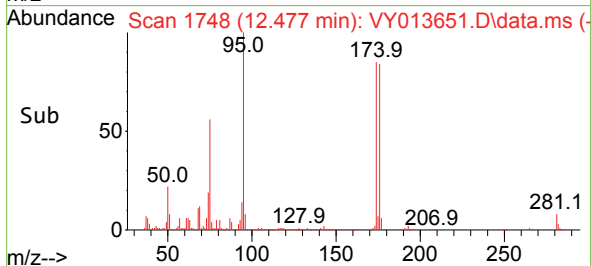
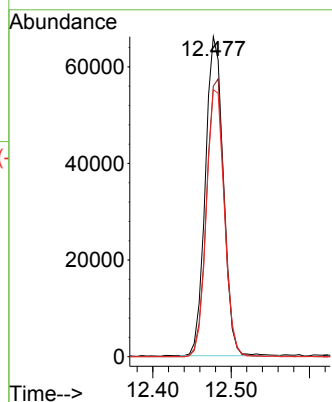
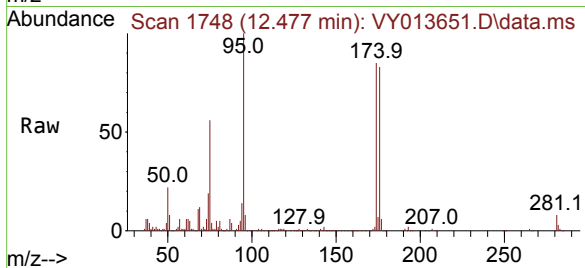




#62
4-Bromofluorobenzene
Concen: 40.356 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

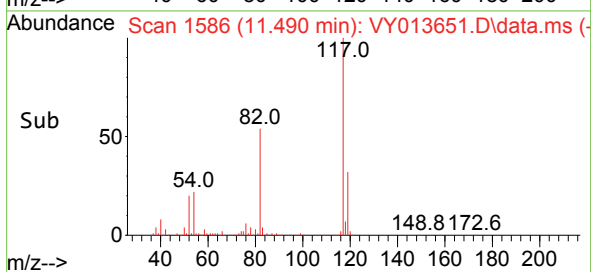
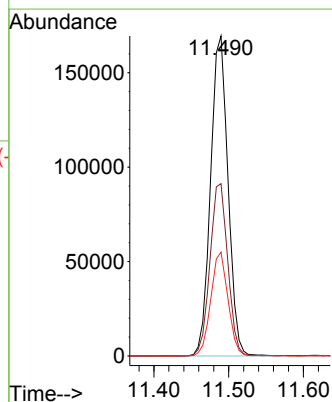
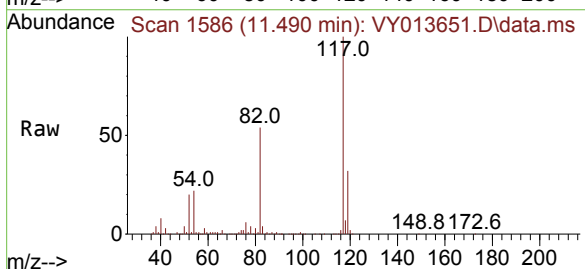
Instrument :
MSVOA_Y
ClientSampleId :
503

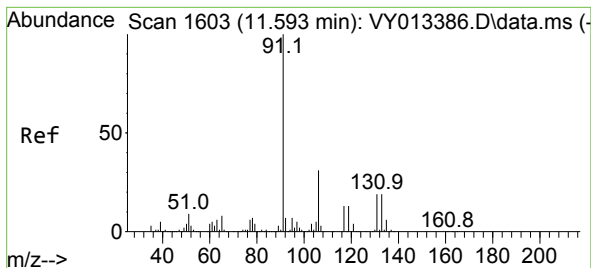
Tgt Ion: 95 Resp: 104979
Ion Ratio Lower Upper
95 100
174 87.5 0.0 182.0
176 83.8 0.0 175.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.001 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

Tgt Ion: 117 Resp: 275001
Ion Ratio Lower Upper
117 100
82 53.8 43.0 64.6
119 32.4 25.5 38.3





#67

Ethyl Benzene

Concen: 1.050 ug/l

RT: 11.593 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY013651.D

Acq: 08 May 2023 15:59

Instrument :

MSVOA_Y

ClientSampleId :

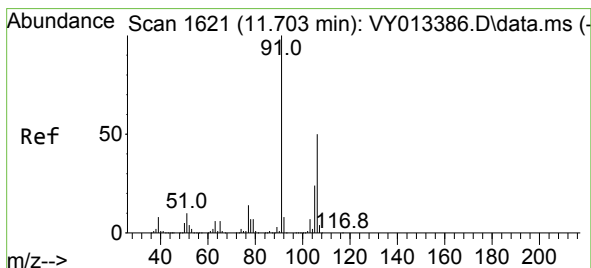
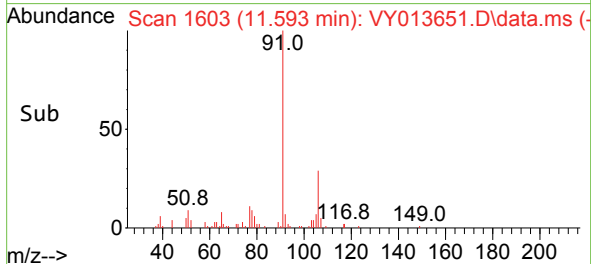
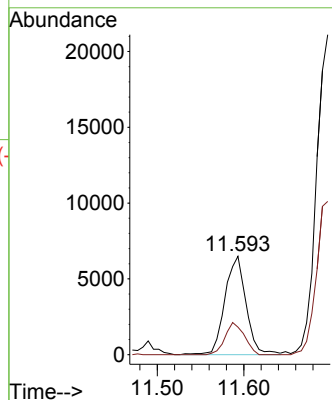
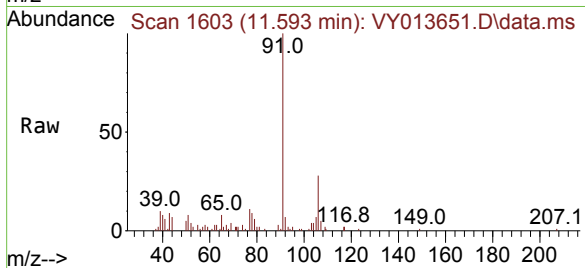
503

Tgt Ion: 91 Resp: 11044

Ion Ratio Lower Upper

91 100

106 28.0 25.1 37.7



#68

m/p-Xylenes

Concen: 4.644 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. -0.006 min

Lab File: VY013651.D

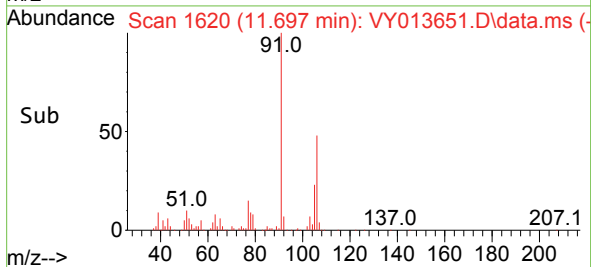
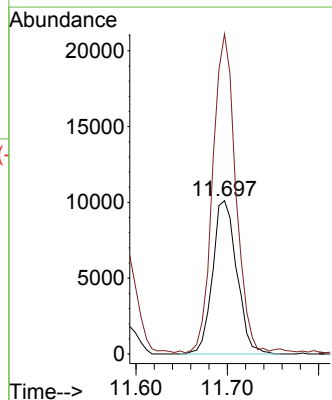
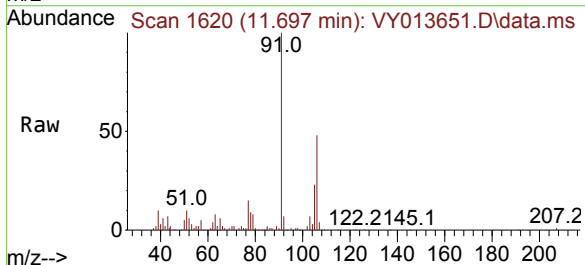
Acq: 08 May 2023 15:59

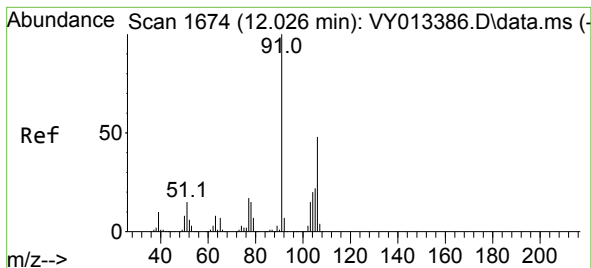
Tgt Ion:106 Resp: 18572

Ion Ratio Lower Upper

106 100

91 197.8 160.9 241.3





#69

o-Xylene

Concen: 2.250 ug/l

RT: 12.026 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY013651.D

Acq: 08 May 2023 15:59

Instrument :

MSVOA_Y

ClientSampleId :

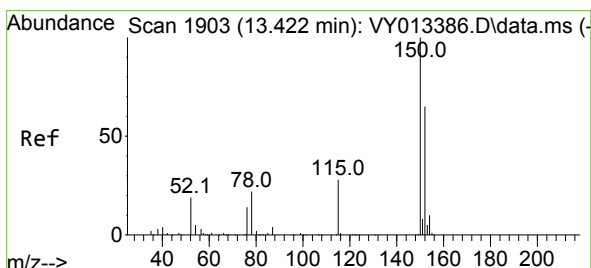
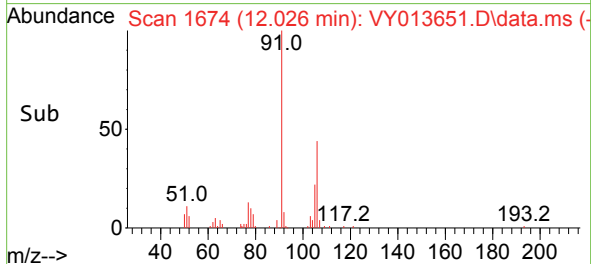
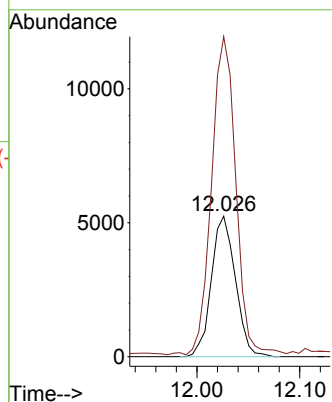
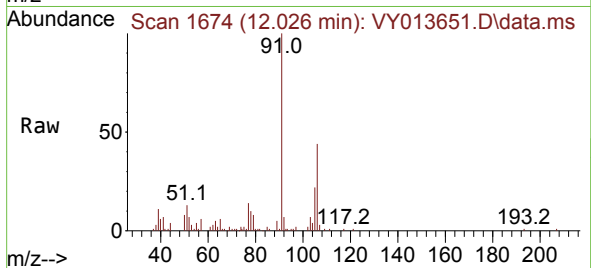
503

Tgt Ion:106 Resp: 8511

Ion Ratio Lower Upper

106 100

91 228.3 105.5 316.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY013651.D

Acq: 08 May 2023 15:59

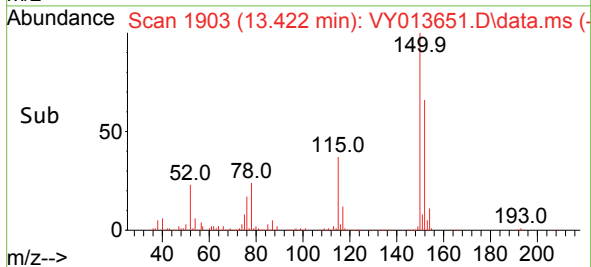
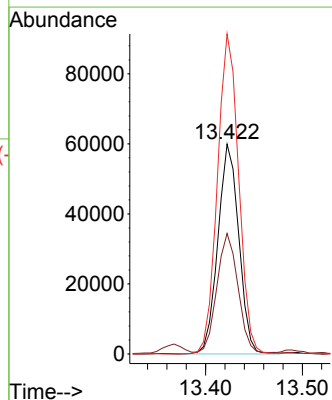
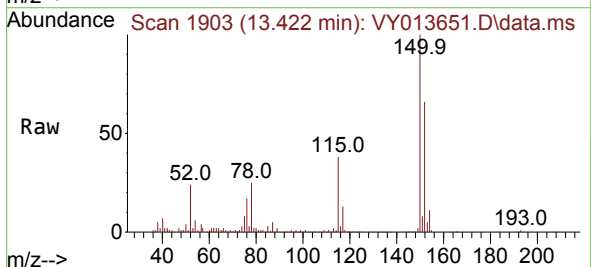
Tgt Ion:152 Resp: 90019

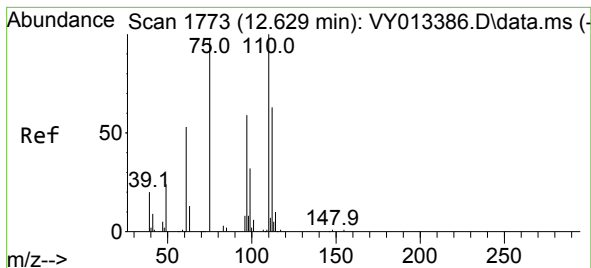
Ion Ratio Lower Upper

152 100

115 57.2 28.1 84.2

150 154.4 0.0 352.0





#76

1,2,3-Trichloropropane

Concen: 46.445 ug/l

RT: 12.477 min Scan# 11

Delta R.T. -0.152 min

Lab File: VY013651.D

Acq: 08 May 2023 15:59

Instrument :

MSVOA_Y

ClientSampleId :

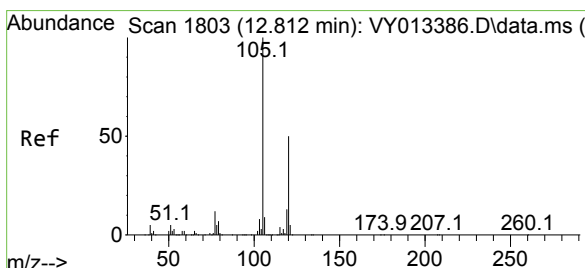
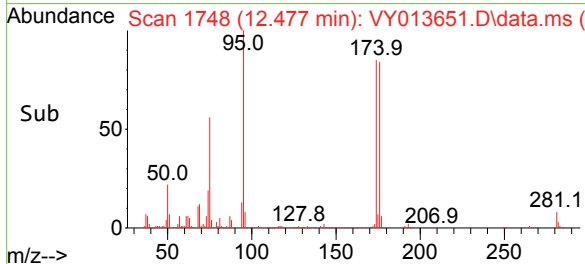
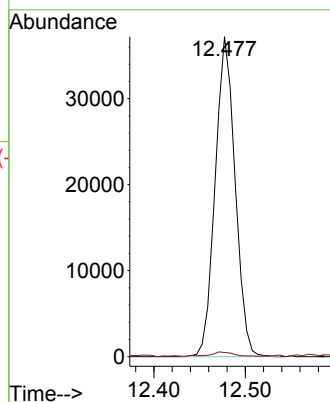
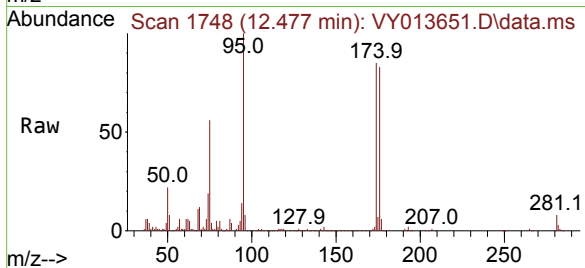
503

Tgt Ion: 75 Resp: 56385

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 1.264 ug/l

RT: 12.806 min Scan# 1802

Delta R.T. -0.006 min

Lab File: VY013651.D

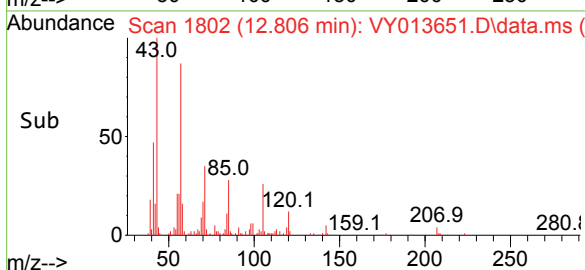
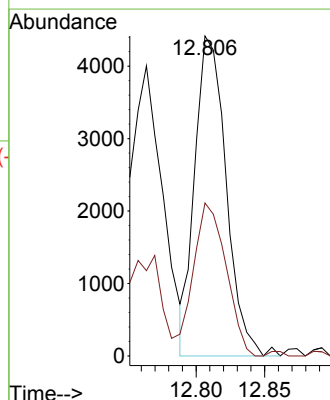
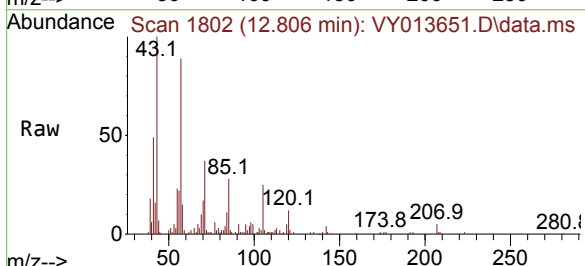
Acq: 08 May 2023 15:59

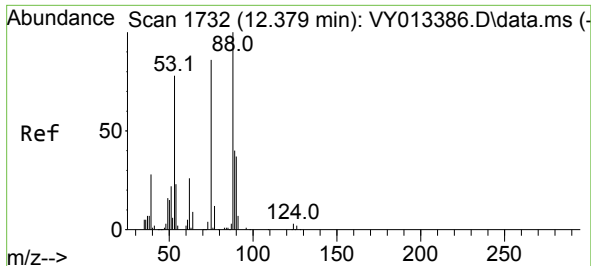
Tgt Ion: 105 Resp: 7026

Ion Ratio Lower Upper

105 100

120 50.3 24.7 74.1

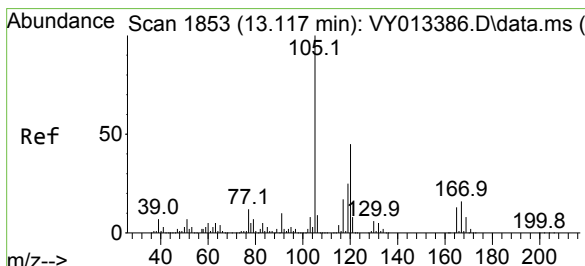
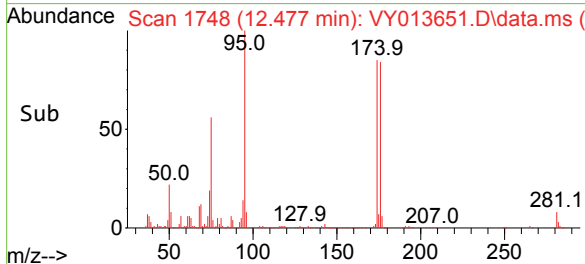
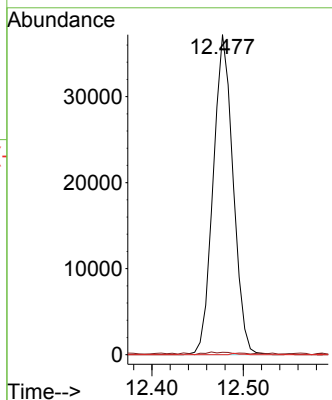
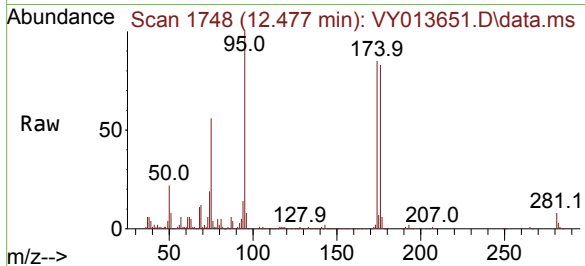




#81
trans-1,4-Dichloro-2-butene
Concen: 95.006 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.098 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

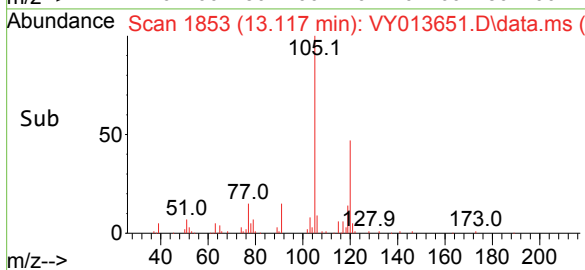
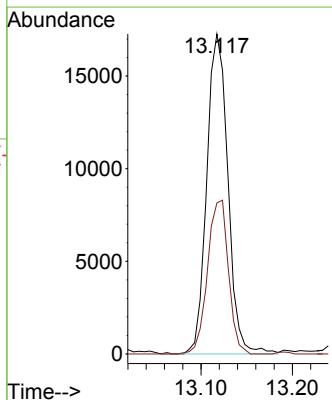
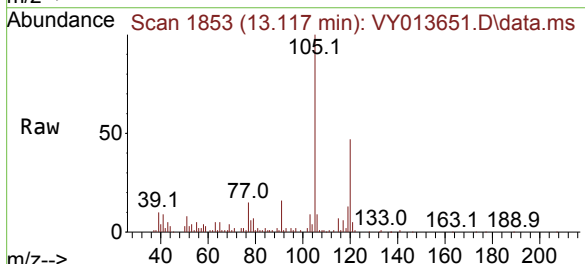
Instrument :
MSVOA_Y
ClientSampleId :
503

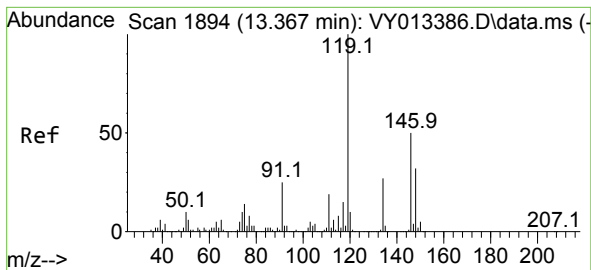
Tgt Ion: 75 Resp: 56385
Ion Ratio Lower Upper
75 100
53 0.0 73.2 109.8#
89 0.2 38.0 57.0#



#84
1,2,4-Trimethylbenzene
Concen: 5.129 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

Tgt Ion: 105 Resp: 27711
Ion Ratio Lower Upper
105 100
120 47.5 22.3 66.9

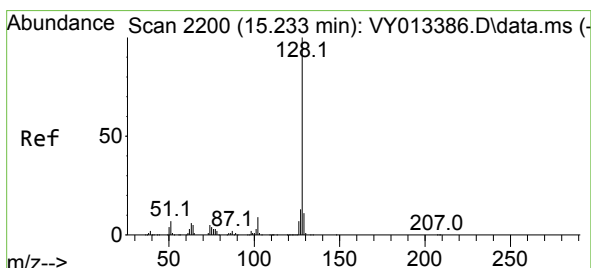
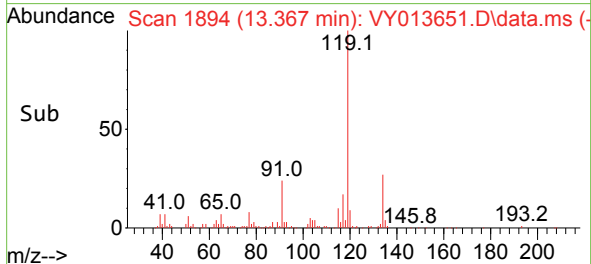
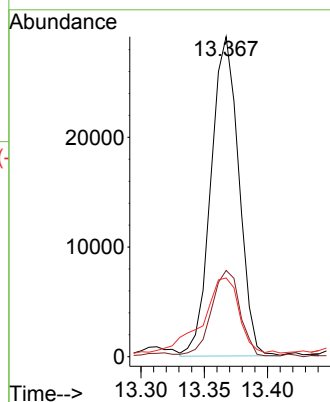
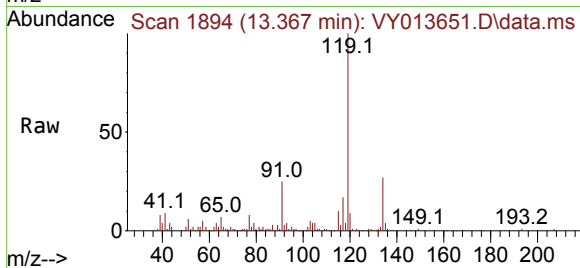




#86
p-Isopropyltoluene
Concen: 7.662 ug/l
RT: 13.367 min Scan# 119
Delta R.T. 0.000 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

Instrument :
MSVOA_Y
ClientSampleId :
503

Tgt Ion:	119	Resp:	44521
Ion	Ratio	Lower	Upper
119	100		
134	27.4	13.4	40.2
91	32.9	12.1	36.3



#95
Naphthalene
Concen: 5.132 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY013651.D
Acq: 08 May 2023 15:59

Tgt Ion:	128	Resp:	18843
Ion	Ratio	Lower	Upper
128	100		
127	17.8	10.7	16.1#
129	13.2	8.8	13.2#

