

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071423\
 Data File : VY014651.D
 Acq On : 14 Jul 2023 16:39
 Operator : SY/MD
 Sample : 03619-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RT3471

Quant Time: Jul 14 23:12:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 14 02:09:50 2023
 Response via : Initial Calibration

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

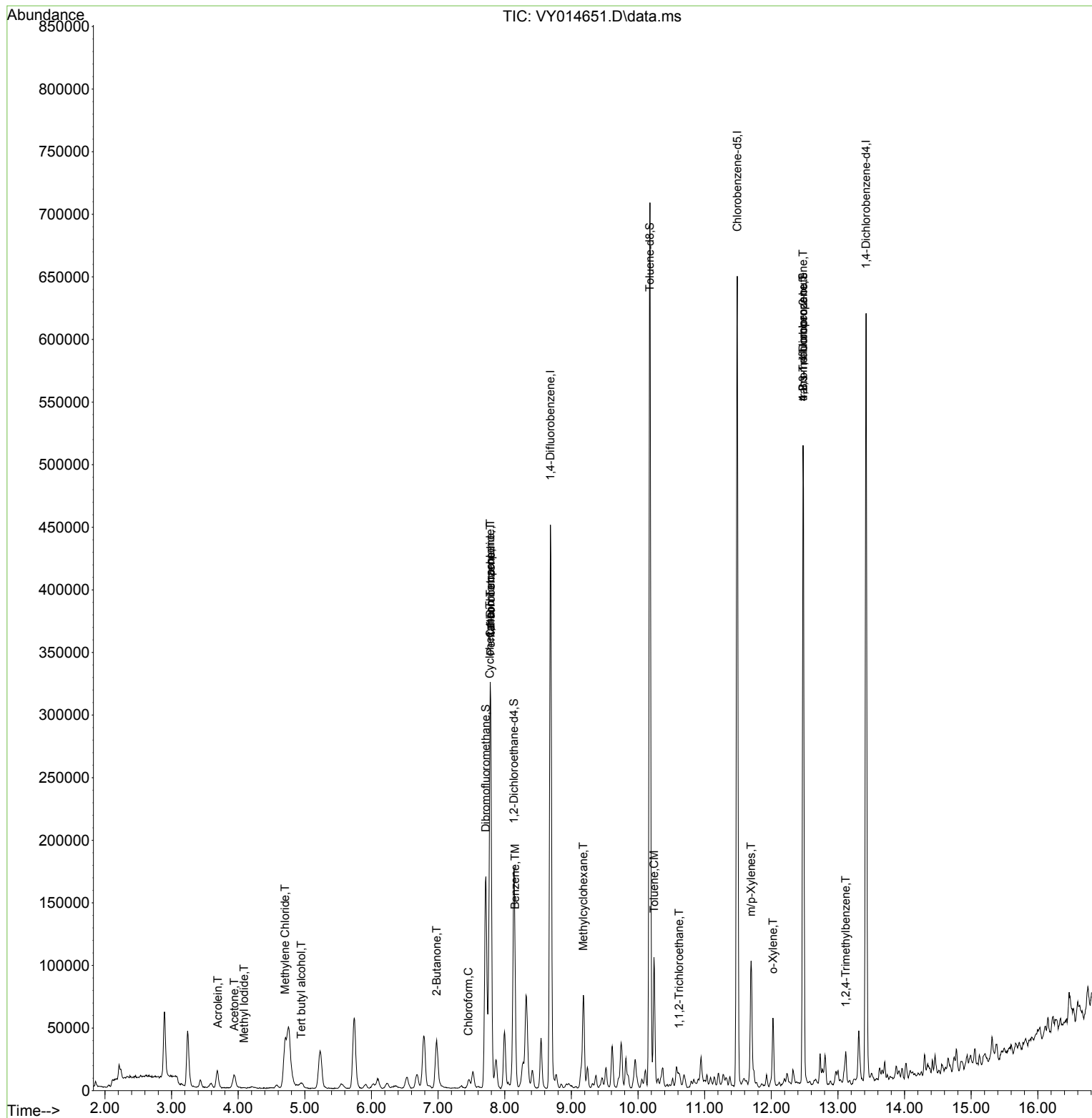
Internal Standards						
1) Pentafluorobenzene	7.789	168	218010	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	381457	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	348344	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	154636	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	130927	52.702	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.400%			
35) Dibromofluoromethane	7.716	113	118671	48.871	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.740%			
50) Toluene-d8	10.179	98	447099	49.941	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.880%			
62) 4-Bromofluorobenzene	12.477	95	163100	47.513	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.020%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.088	142	352	2.507	ug/l #	45
11) Tert butyl alcohol	4.948	59	9486	6.664	ug/l #	94
13) Acrolein	3.692	56	705	2.715	ug/l #	1
16) Acetone	3.942	43	14781	18.776	ug/l	99
20) Methylene Chloride	4.704	84	21721	4.664	ug/l	92
25) 2-Butanone	6.978	43	4950	4.298	ug/l #	83
30) Chloroform	7.454	83	5385	1.178	ug/l #	19
31) Cyclohexane	7.777	56	28535	6.919	ug/l #	90
36) 1,1-Dichloropropene	7.783	75	16752	4.613	ug/l #	52
38) Carbon Tetrachloride	7.783	117	22284	5.805	ug/l #	16
39) Methylcyclohexane	9.179	83	27313	5.773	ug/l	98
40) Benzene	8.155	78	18383	1.780	ug/l	93
52) Toluene	10.240	92	42297	6.400	ug/l	95
55) 1,1,2-Trichloroethane	10.618	97	3741	1.642	ug/l #	20
68) m/p-Xylenes	11.697	106	31020	6.063	ug/l	97
69) o-Xylene	12.026	106	14028	2.815	ug/l	97
76) 1,2,3-Trichloropropane	12.477	75	82923	42.459	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	82923	82.208	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.117	105	13019	1.312	ug/l	96

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

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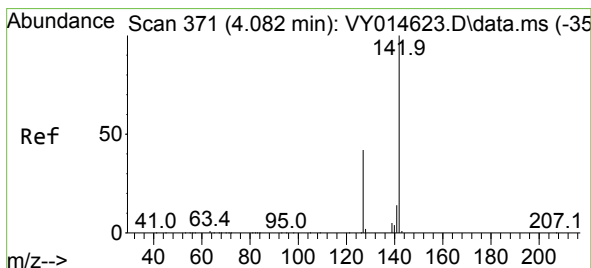
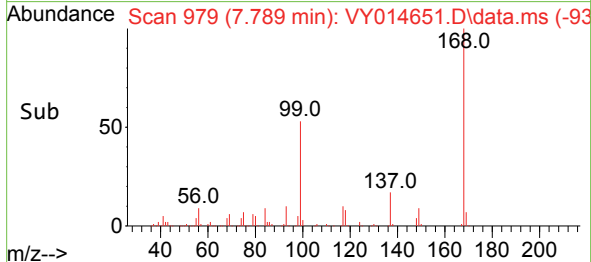
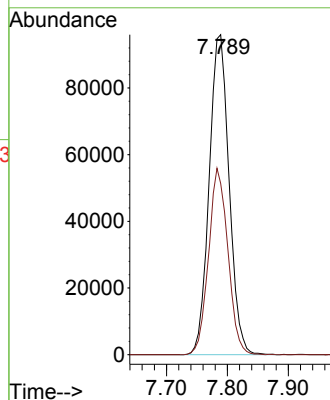
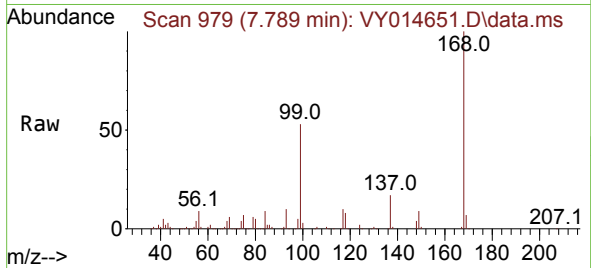




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

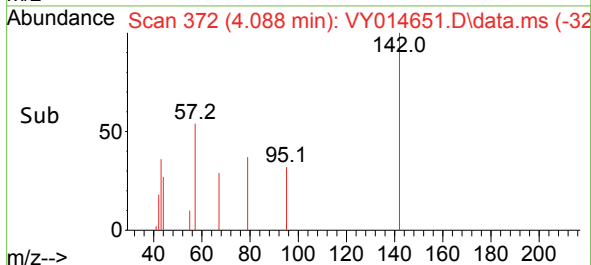
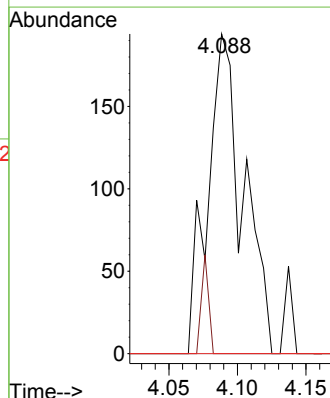
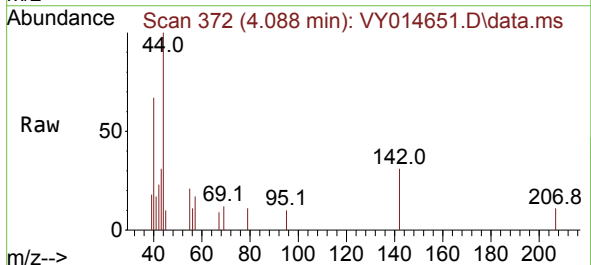
Instrument :
MSVOA_Y
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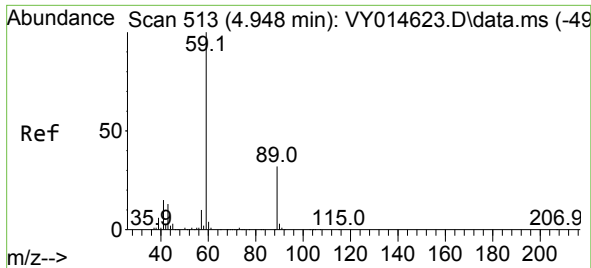
Tgt Ion:168 Resp: 218010
Ion Ratio Lower Upper
168 100
99 53.5 43.4 65.0



#10
Methyl Iodide
Concen: 2.507 ug/l
RT: 4.088 min Scan# 372
Delta R.T. 0.006 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

Tgt Ion:142 Resp: 352
Ion Ratio Lower Upper
142 100
127 6.3 37.6 56.4#
141 0.0 11.8 17.8#

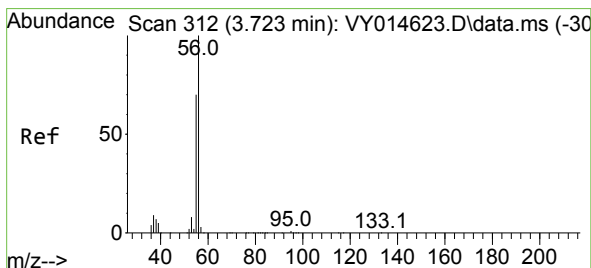
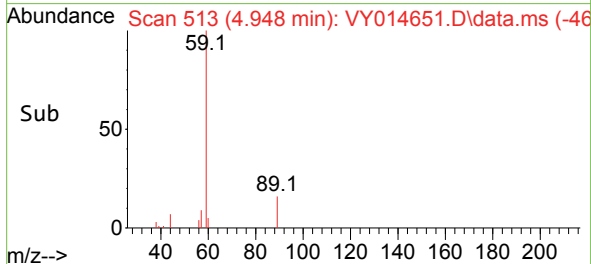
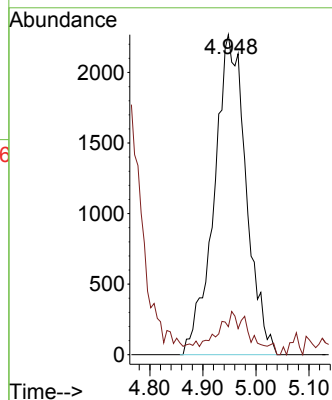
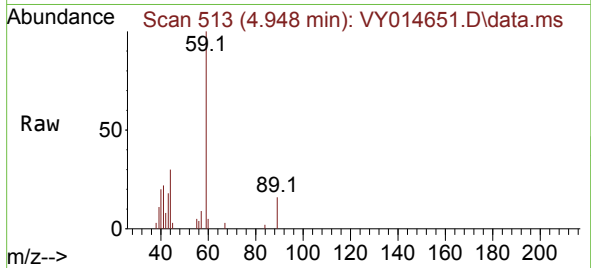




#11
Tert butyl alcohol
Concen: 6.664 ug/l
RT: 4.948 min Scan# 513
Delta R.T. 0.000 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

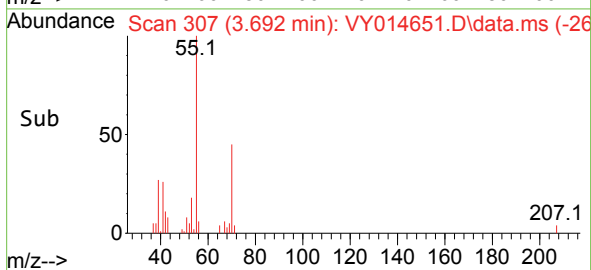
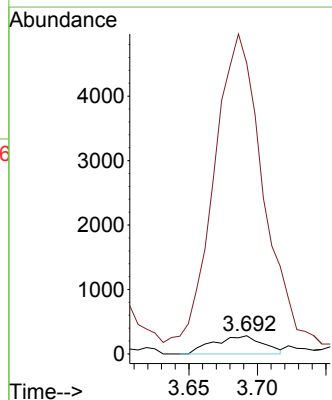
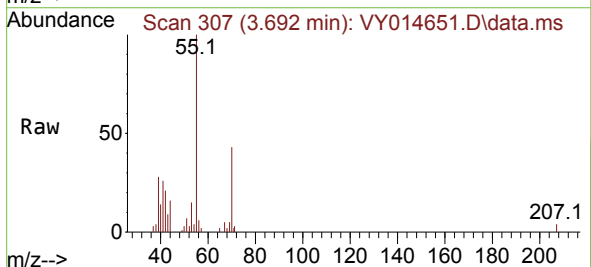
Instrument :
MSVOA_Y
ClientSampleId :
RT3471

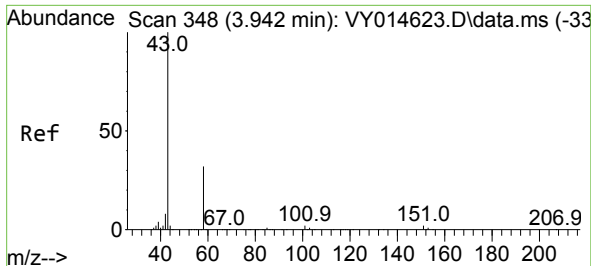
Tgt Ion: 59 Resp: 9486
Ion Ratio Lower Upper
59 100
57 5.6 3.0 4.4#



#13
Acrolein
Concen: 2.715 ug/l
RT: 3.692 min Scan# 307
Delta R.T. -0.031 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

Tgt Ion: 56 Resp: 705
Ion Ratio Lower Upper
56 100
55 1704.4 57.0 85.4#





#16

Acetone

Concen: 18.776 ug/l

RT: 3.942 min Scan# 348

Delta R.T. 0.000 min

Lab File: VY014651.D

Acq: 14 Jul 2023 16:39

Instrument :

MSVOA_Y

ClientSampleId :

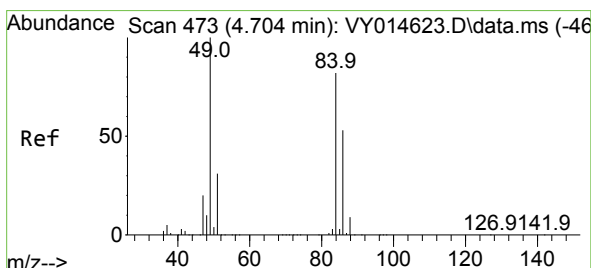
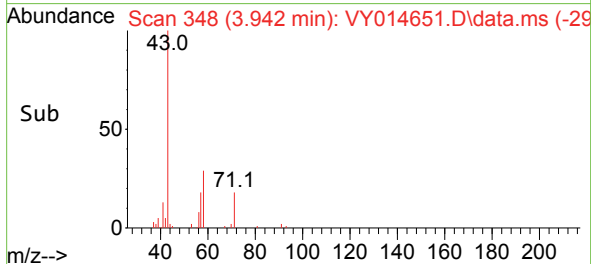
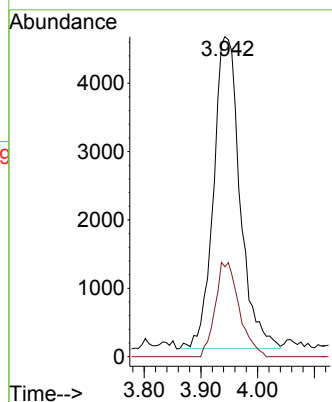
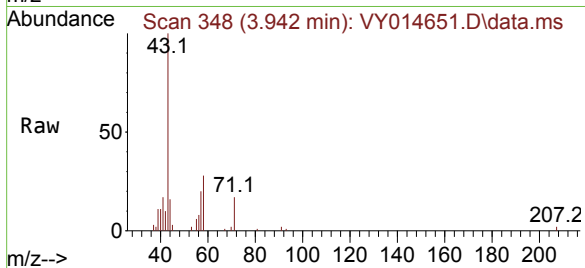
RT3471

Tgt Ion: 43 Resp: 14781

Ion Ratio Lower Upper

43 100

58 28.9 22.7 34.1



#20

Methylene Chloride

Concen: 4.664 ug/l

RT: 4.704 min Scan# 473

Delta R.T. 0.000 min

Lab File: VY014651.D

Acq: 14 Jul 2023 16:39

Tgt Ion: 84 Resp: 21721

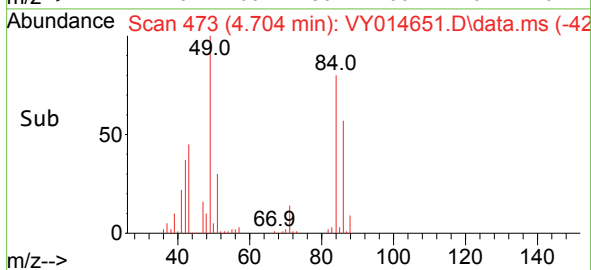
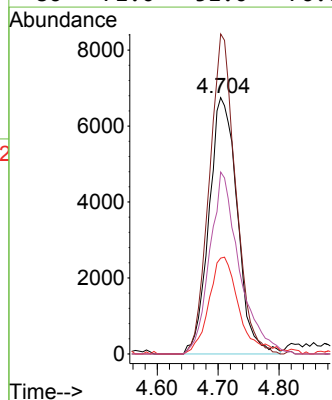
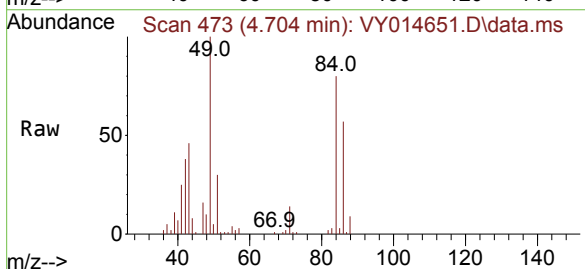
Ion Ratio Lower Upper

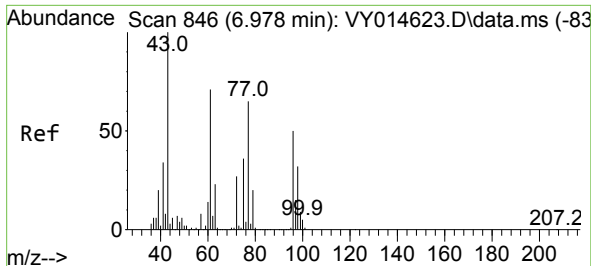
84 100

49 124.9 106.9 160.3

51 37.4 33.2 49.8

86 71.0 51.0 76.6

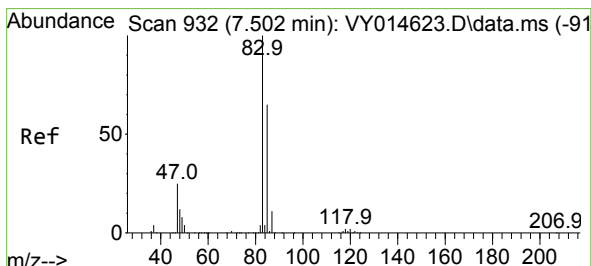
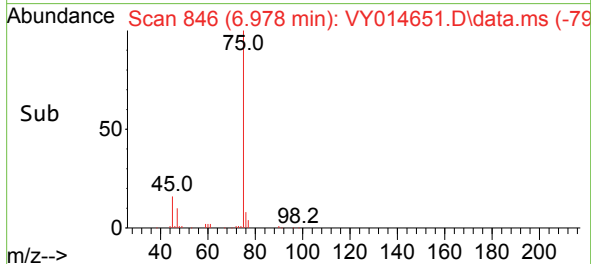
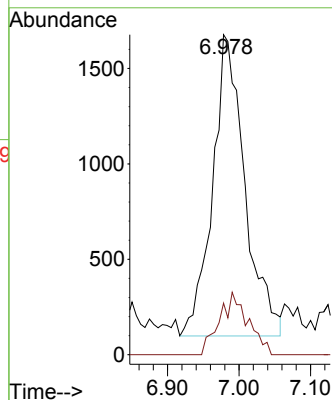
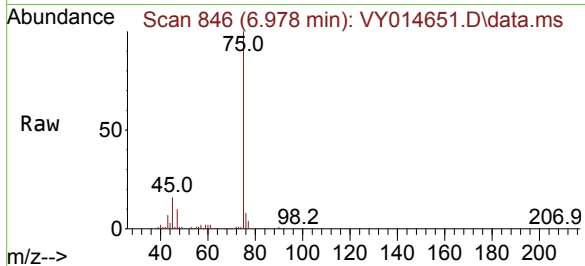




#25
2-Butanone
Concen: 4.298 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

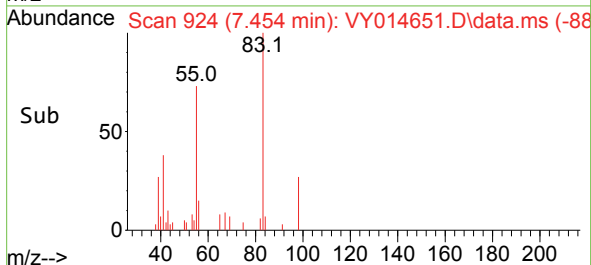
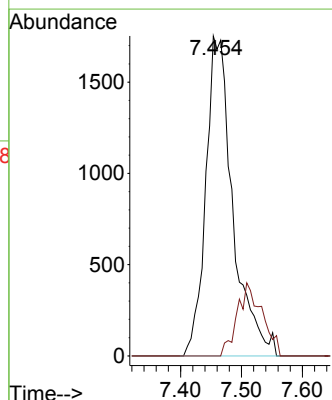
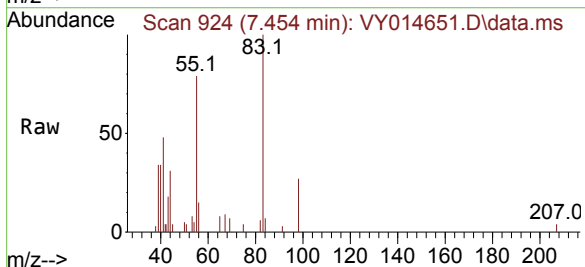
Instrument :
MSVOA_Y
ClientSampleId :
RT3471

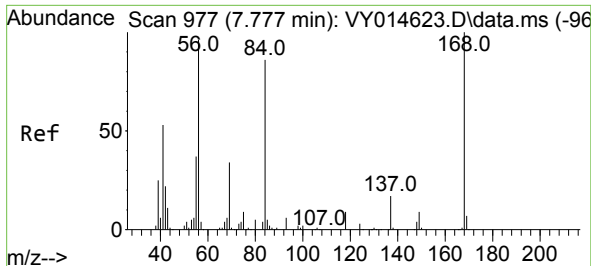
Tgt Ion: 43 Resp: 4950
Ion Ratio Lower Upper
43 100
72 17.1 20.5 30.7#



#30
Chloroform
Concen: 1.178 ug/l
RT: 7.454 min Scan# 924
Delta R.T. -0.048 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

Tgt Ion: 83 Resp: 5385
Ion Ratio Lower Upper
83 100
85 0.0 49.7 74.5#

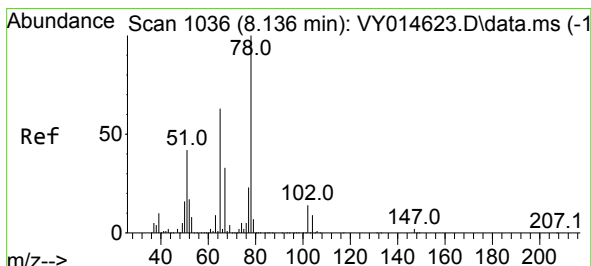
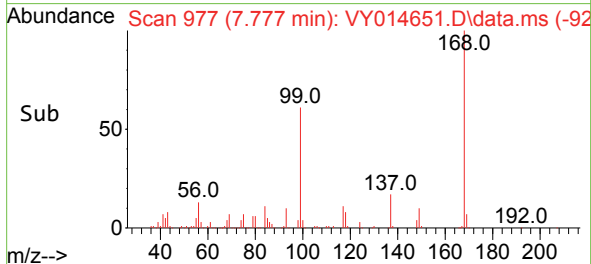
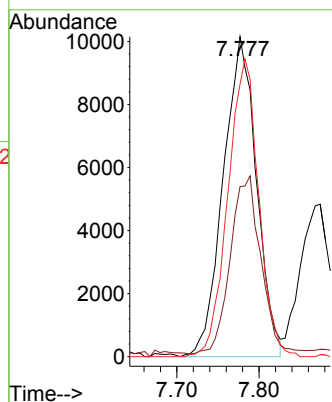
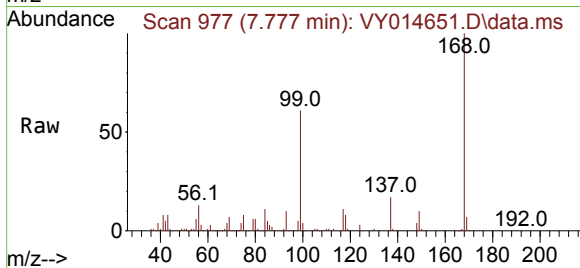




#31
Cyclohexane
Concen: 6.919 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

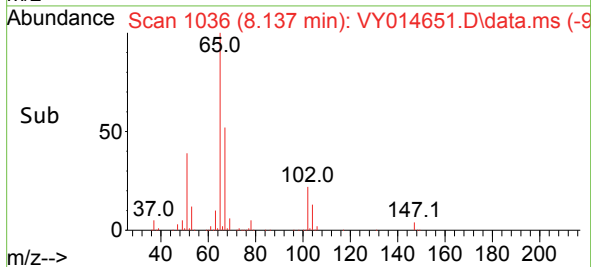
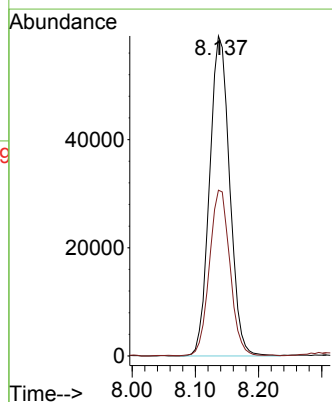
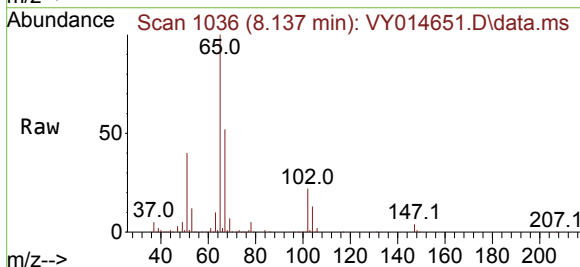
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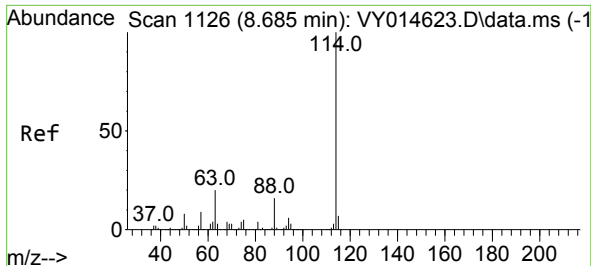
Tgt Ion: 56 Resp: 28535
Ion Ratio Lower Upper
56 100
69 52.0 27.8 41.6#
84 85.1 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 52.702 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

Tgt Ion: 65 Resp: 130927
Ion Ratio Lower Upper
65 100
67 52.5 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY014651.D

Acq: 14 Jul 2023 16:39

Instrument :

MSVOA_Y

ClientSampleId :

RT3471

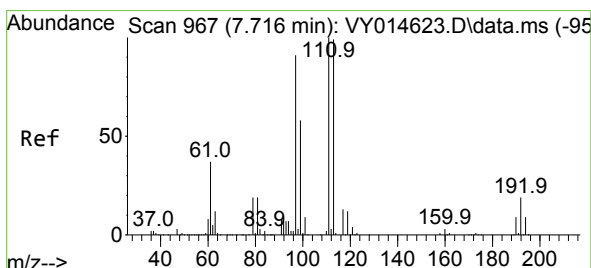
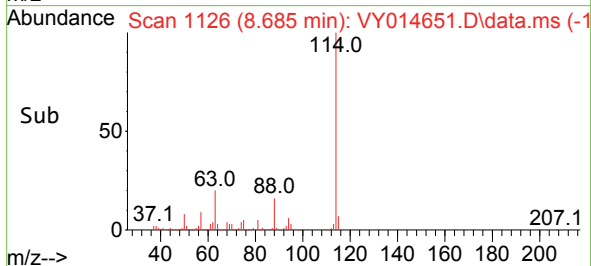
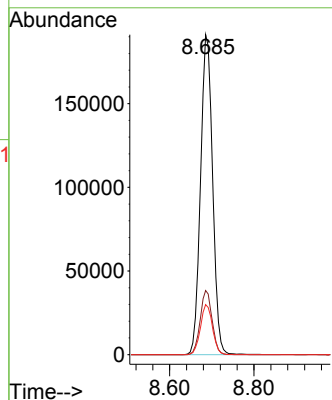
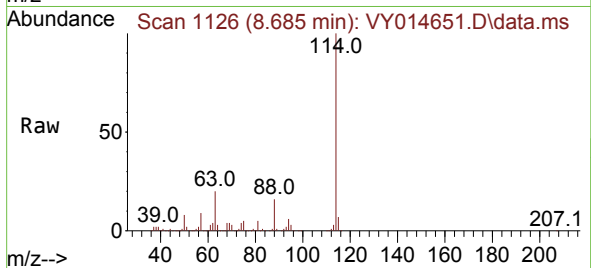
Tgt Ion:114 Resp: 381457

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.4

88 15.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.871 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY014651.D

Acq: 14 Jul 2023 16:39

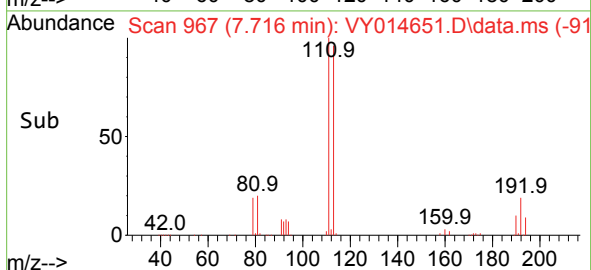
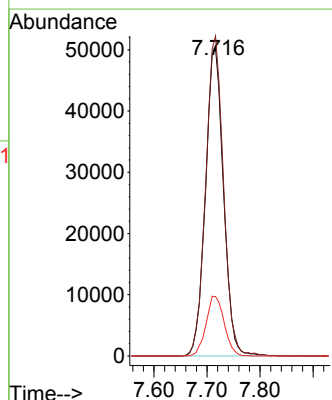
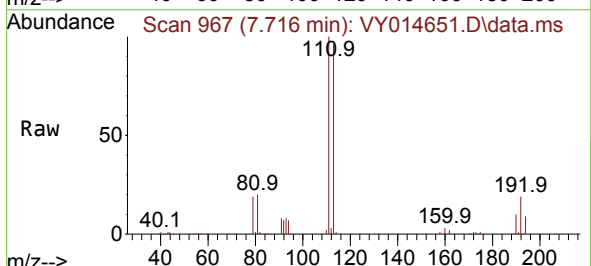
Tgt Ion:113 Resp: 118671

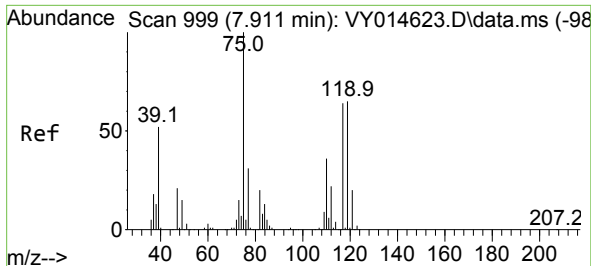
Ion Ratio Lower Upper

113 100

111 103.0 81.3 121.9

192 19.6 16.9 25.3

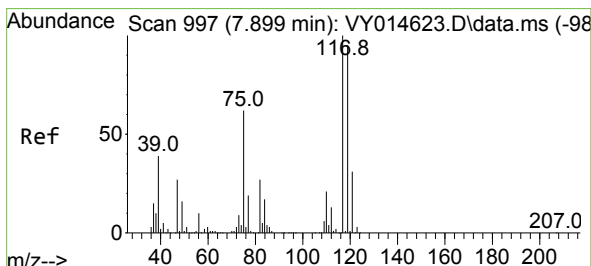
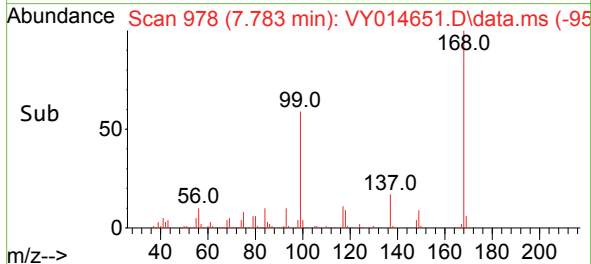
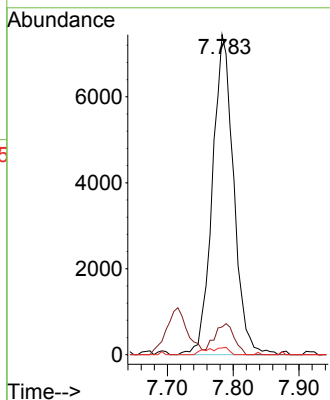
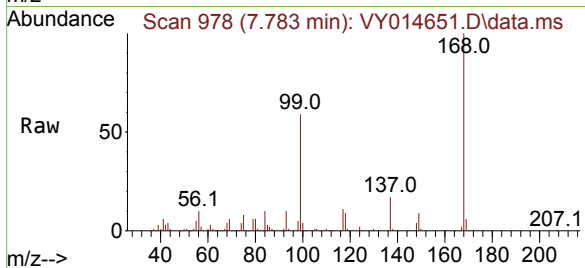




#36
1,1-Dichloropropene
Concen: 4.613 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

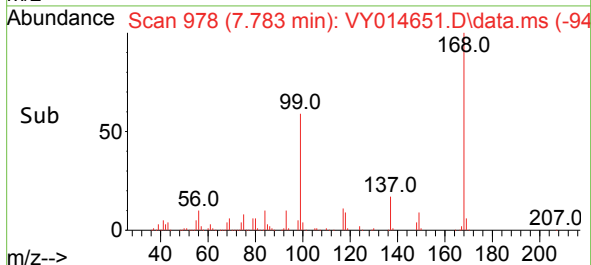
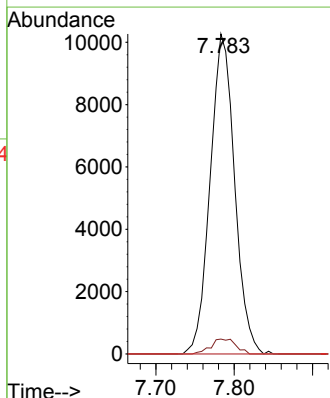
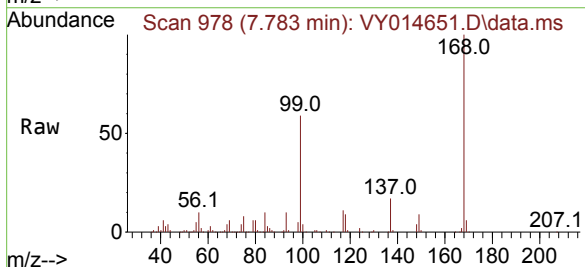
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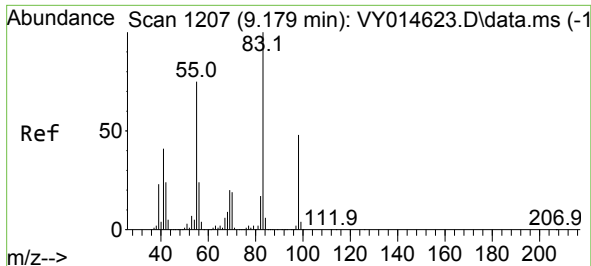
Tgt Ion: 75 Resp: 16752
Ion Ratio Lower Upper
75 100
110 9.1 17.8 53.5#
77 2.3 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.805 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.116 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

Tgt Ion: 117 Resp: 22284
Ion Ratio Lower Upper
117 100
119 4.6 76.4 114.6#
121 0.0 25.8 38.6#





#39

Methylcyclohexane

Concen: 5.773 ug/l

RT: 9.179 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY014651.D

Acq: 14 Jul 2023 16:39

Instrument :

MSVOA_Y

ClientSampleId :

RT3471

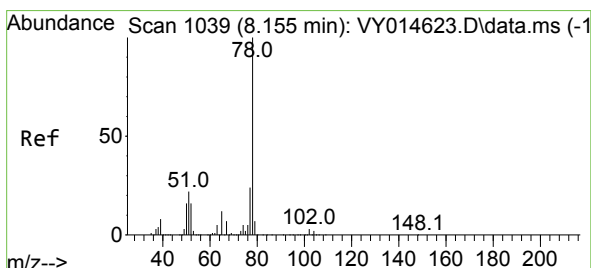
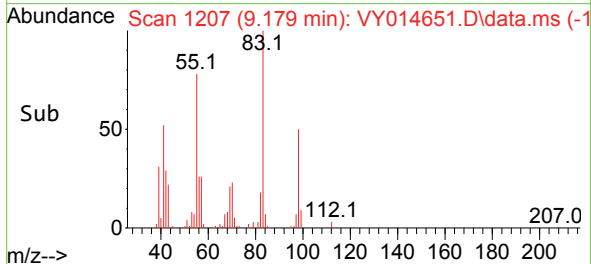
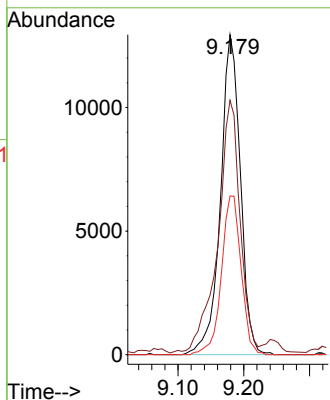
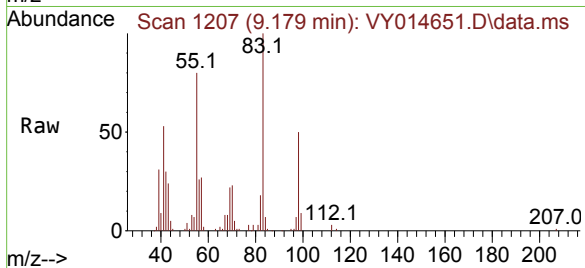
Tgt Ion: 83 Resp: 27313

Ion Ratio Lower Upper

83 100

55 78.2 63.0 94.4

98 49.6 37.4 56.2



#40

Benzene

Concen: 1.780 ug/l

RT: 8.155 min Scan# 1039

Delta R.T. -0.000 min

Lab File: VY014651.D

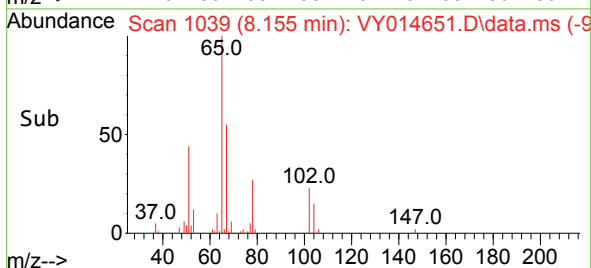
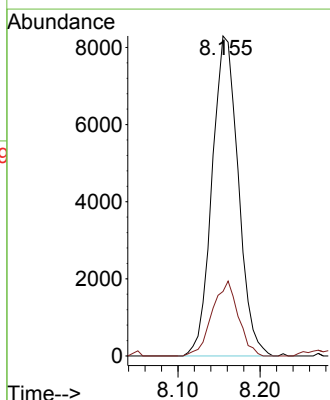
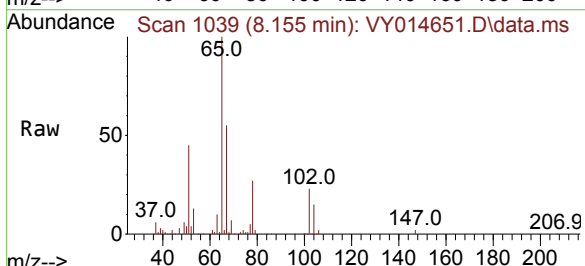
Acq: 14 Jul 2023 16:39

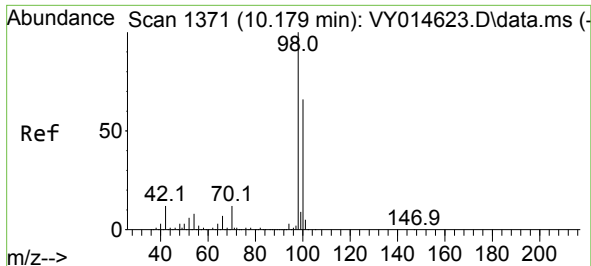
Tgt Ion: 78 Resp: 18383

Ion Ratio Lower Upper

78 100

77 20.2 19.0 28.6

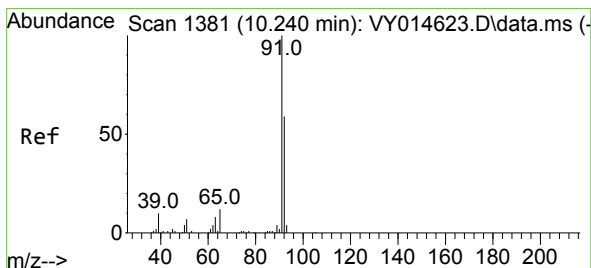
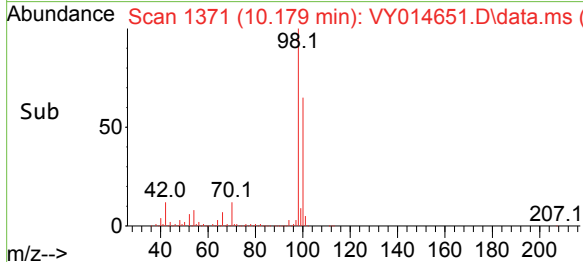
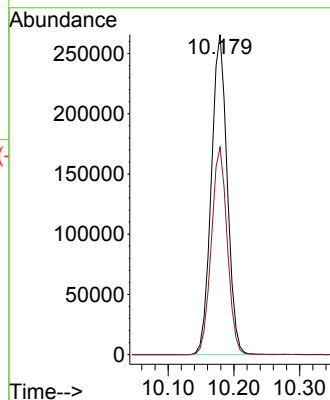
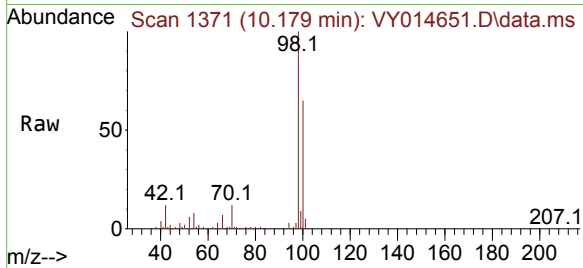




#50
Toluene-d8
Concen: 49.941 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

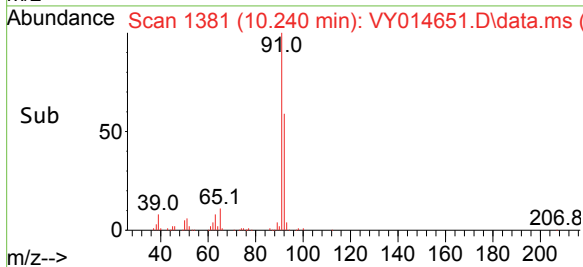
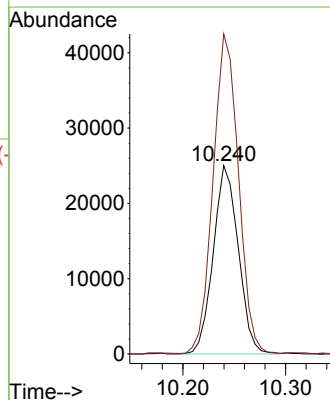
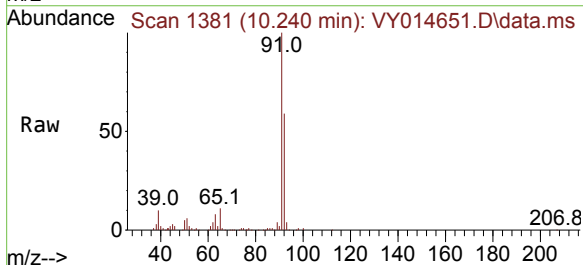
Instrument :
MSVOA_Y
ClientSampleId :
RT3471

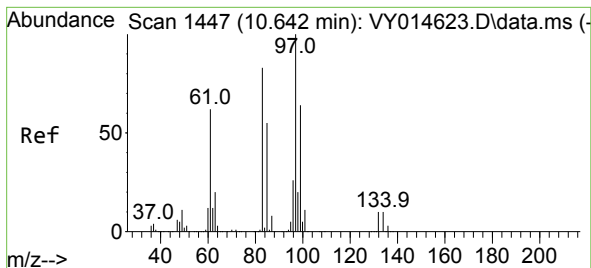
Tgt Ion: 98 Resp: 447099
Ion Ratio Lower Upper
98 100
100 64.8 50.1 75.1



#52
Toluene
Concen: 6.400 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

Tgt Ion: 92 Resp: 42297
Ion Ratio Lower Upper
92 100
91 172.0 143.8 215.6





#55

1,1,2-Trichloroethane

Concen: 1.642 ug/l

RT: 10.618 min Scan# 1443

Delta R.T. -0.024 min

Lab File: VY014651.D

Acq: 14 Jul 2023 16:39

Instrument :

MSVOA_Y

ClientSampleId :

RT3471

Tgt Ion: 97 Resp: 3741

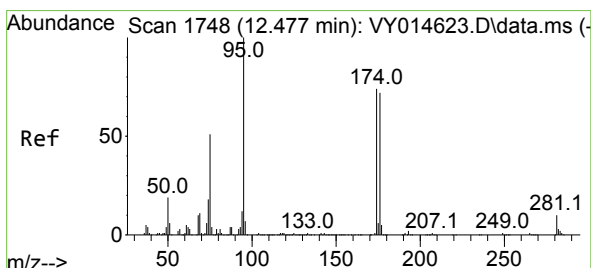
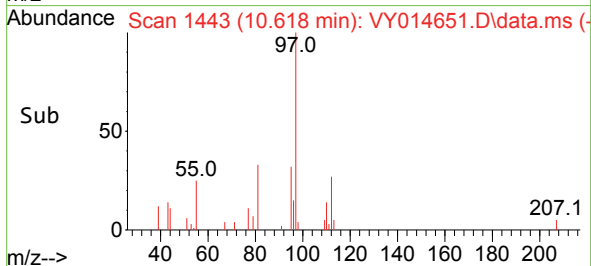
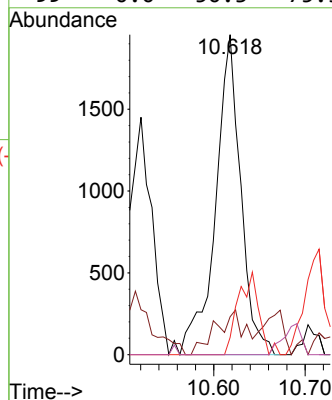
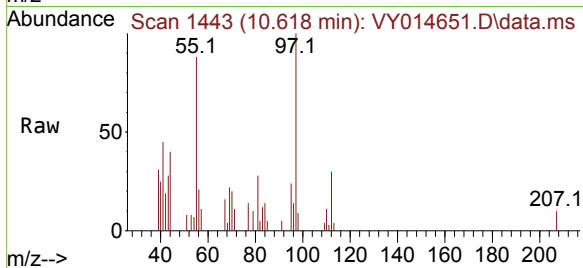
Ion Ratio Lower Upper

97 100

83 8.4 72.0 108.0#

85 5.4 45.4 68.0#

99 0.0 50.3 75.5#



#62

4-Bromofluorobenzene

Concen: 47.513 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.000 min

Lab File: VY014651.D

Acq: 14 Jul 2023 16:39

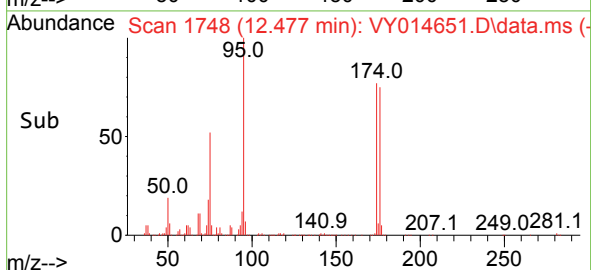
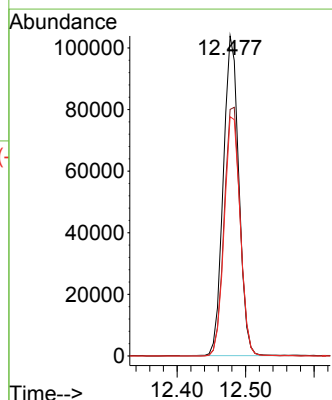
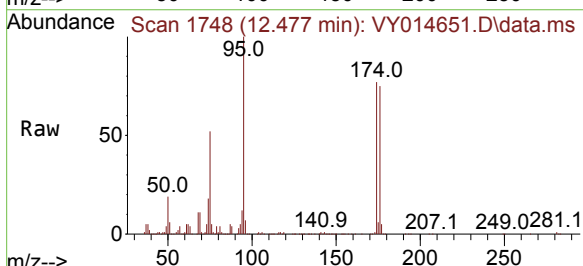
Tgt Ion: 95 Resp: 163100

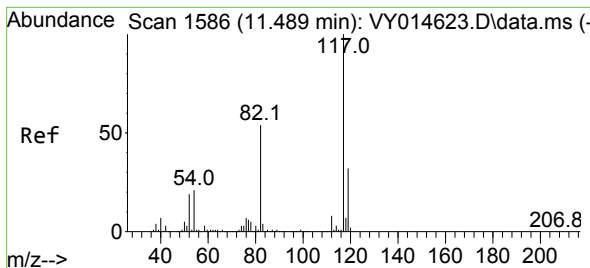
Ion Ratio Lower Upper

95 100

174 80.0 0.0 178.2

176 77.2 0.0 173.8

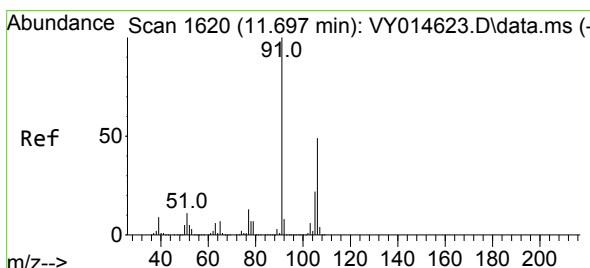
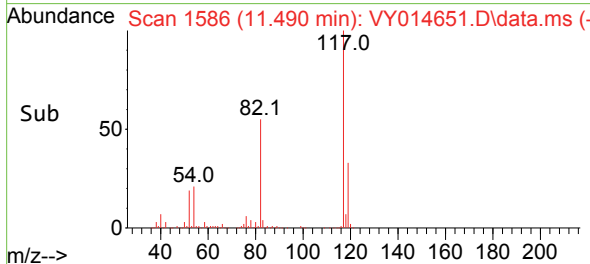
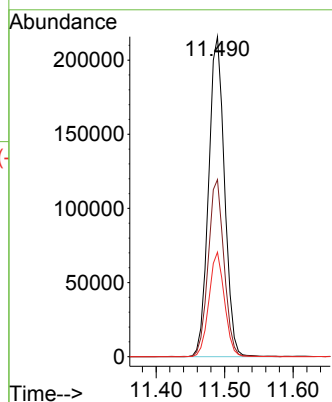
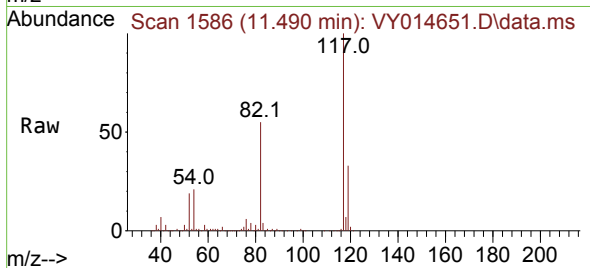




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1170
Delta R.T. 0.001 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

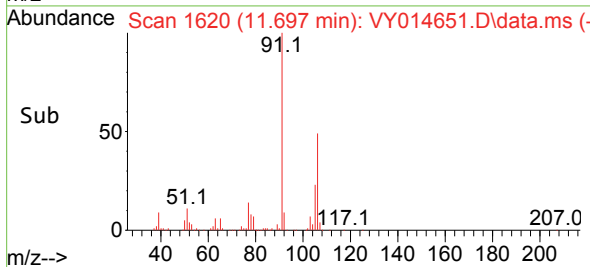
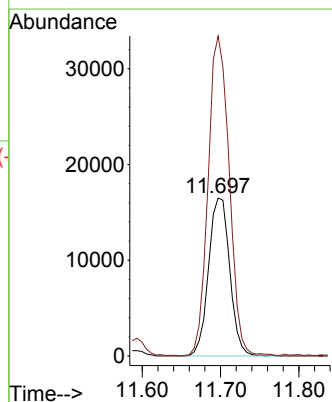
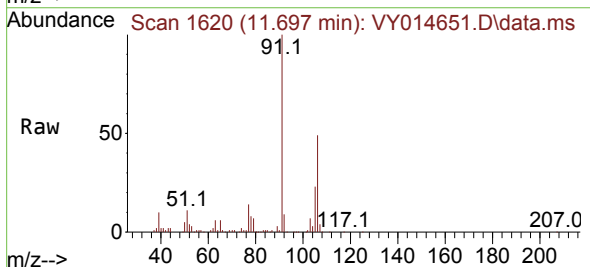
Instrument :
MSVOA_Y
ClientSampleId :
RT3471

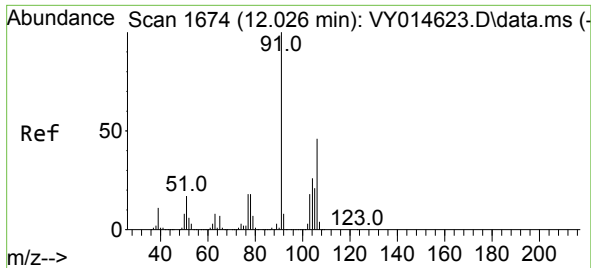
Tgt Ion:117 Resp: 348344
Ion Ratio Lower Upper
117 100
82 55.3 43.4 65.0
119 32.7 26.3 39.5



#68
m/p-Xylenes
Concen: 6.063 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

Tgt Ion:106 Resp: 31020
Ion Ratio Lower Upper
106 100
91 202.3 166.1 249.1

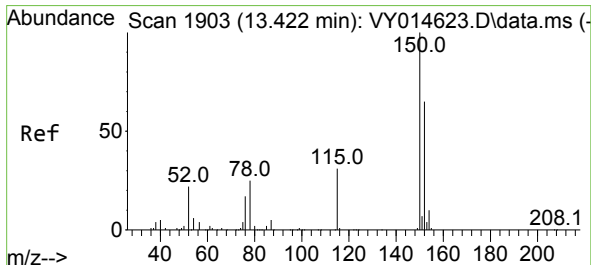
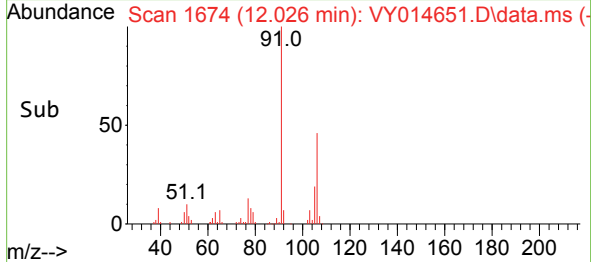
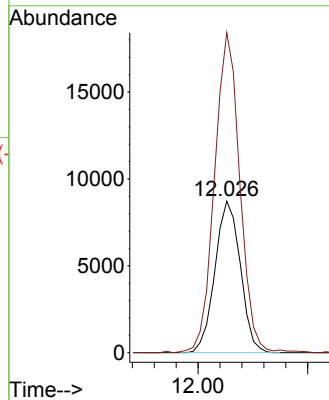
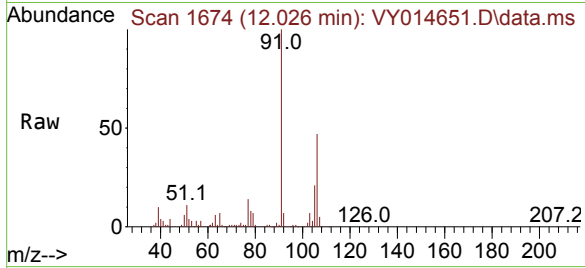




#69
o-Xylene
Concen: 2.815 ug/l
RT: 12.026 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

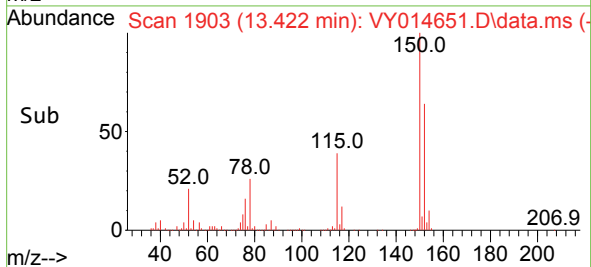
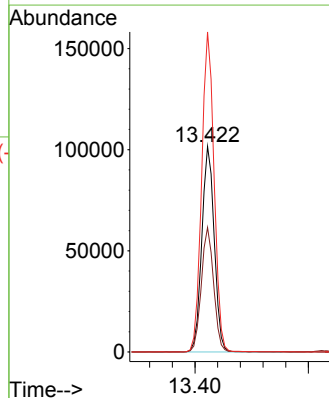
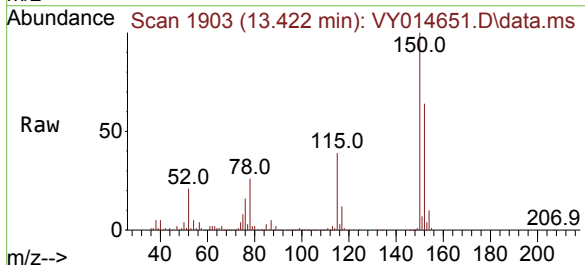
Instrument :
MSVOA_Y
ClientSampleId :
RT3471

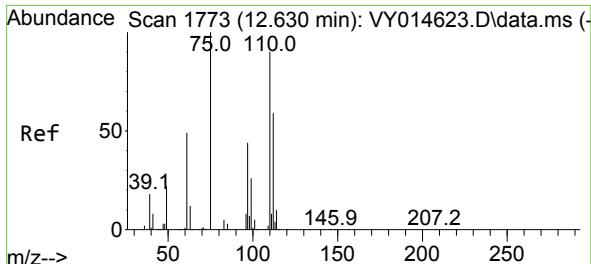
Tgt Ion:106 Resp: 14028
Ion Ratio Lower Upper
106 100
91 211.1 108.1 324.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

Tgt Ion:152 Resp: 154636
Ion Ratio Lower Upper
152 100
115 60.0 28.8 86.5
150 155.7 0.0 348.8

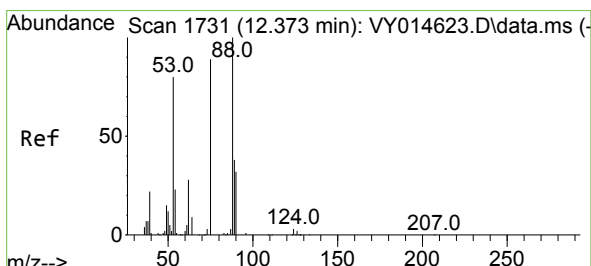
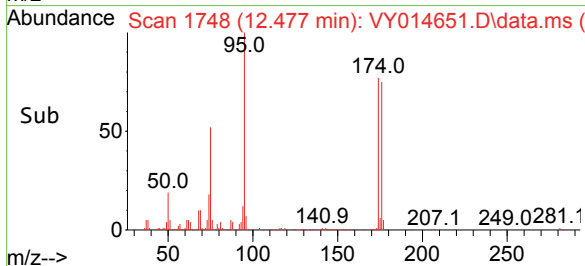
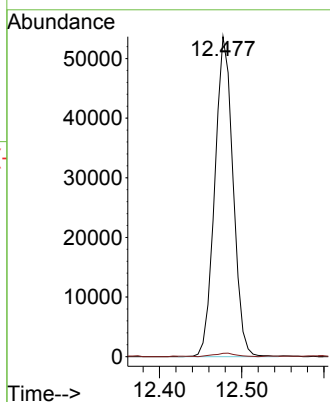
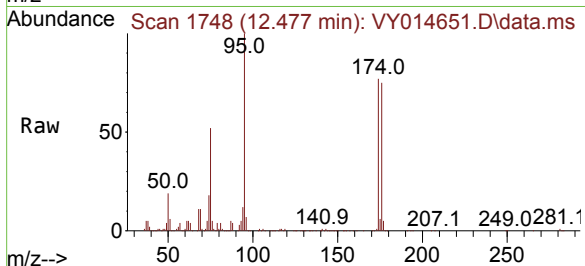




#76
1,2,3-Trichloropropane
Concen: 42.459 ug/l
RT: 12.477 min Scan# 1773
Delta R.T. -0.153 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

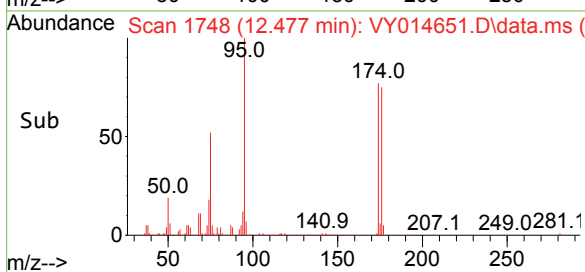
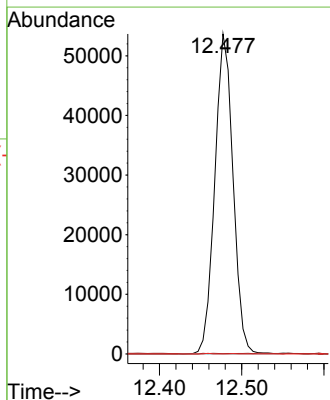
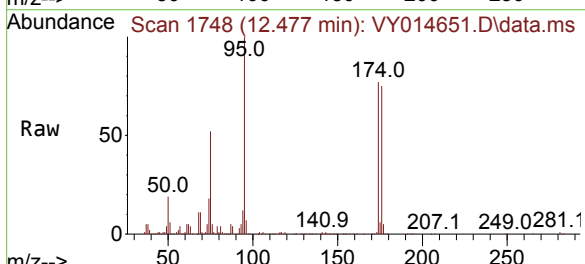
Instrument :
MSVOA_Y
ClientSampleId :
RT3471

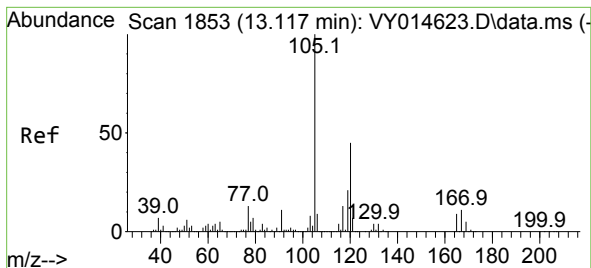
Tgt Ion: 75 Resp: 82923
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 82.208 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.104 min
Lab File: VY014651.D
Acq: 14 Jul 2023 16:39

Tgt Ion: 75 Resp: 82923
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 1.312 ug/l

RT: 13.117 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY014651.D

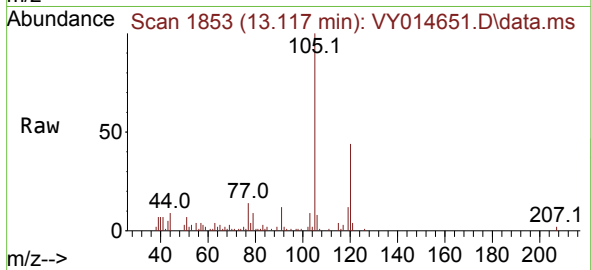
Acq: 14 Jul 2023 16:39

Instrument :

MSVOA_Y

ClientSampleId :

RT3471



Tgt Ion:105 Resp: 13019

Ion Ratio Lower Upper

105 100

120 46.9 22.2 66.6

