

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081823\
 Data File : VY015203.D
 Acq On : 18 Aug 2023 18:10
 Operator : SY/MD
 Sample : 04086-15
 Misc : 5.01g/5.2mL/MSVOA_Y/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 18 23:14:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

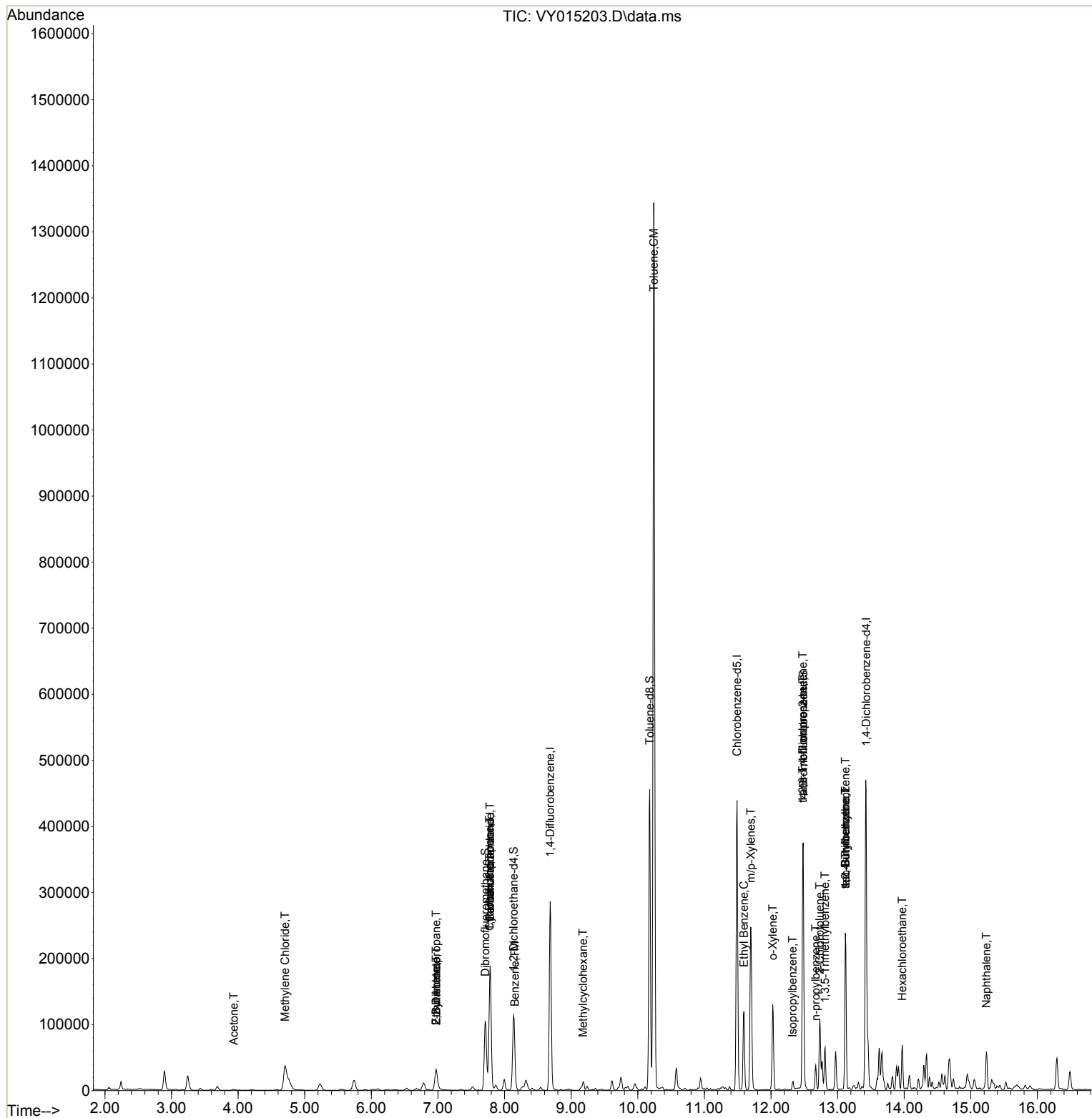
Internal Standards						
1) Pentafluorobenzene	7.783	168	139892	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	243351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	238840	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	122062	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	87602	52.167	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 104.340%	
35) Dibromofluoromethane	7.710	113	75266	48.076	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 96.160%	
50) Toluene-d8	10.179	98	291399	50.001	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.000%	
62) 4-Bromofluorobenzene	12.483	95	114539	53.809	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 107.620%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.906	85	93	Below Cal	#	43
3) Chloromethane	2.107	50	355	Below Cal	#	88
5) Bromomethane	2.644	94	191	Below Cal	#	55
11) Tert butyl alcohol	4.960	59	1548	Below Cal	#	89
13) Acrolein	3.680	56	257	Below Cal	#	1
16) Acetone	3.936	43	1411	2.572	ug/l #	88
20) Methylene Chloride	4.704	84	26116	17.004	ug/l	88
25) 2-Butanone	6.972	43	1773	2.283	ug/l	99
26) 2,2-Dichloropropane	6.972	77	2369	1.054	ug/l #	54
31) Cyclohexane	7.777	56	6892	2.151	ug/l #	51
36) 1,1-Dichloropropene	7.777	75	11007	6.355	ug/l #	50
37) Ethyl Acetate	6.972	43	1773	1.098	ug/l #	1
38) Carbon Tetrachloride	7.783	117	13951	6.806	ug/l #	16
39) Methylcyclohexane	9.179	83	4205	2.166	ug/l	97
40) Benzene	8.155	78	11023	2.105	ug/l	99
52) Toluene	10.240	92	563431	163.246	ug/l	95
67) Ethyl Benzene	11.593	91	83884	11.002	ug/l	97
68) m/p-Xylenes	11.697	106	76565	26.440	ug/l	96
69) o-Xylene	12.026	106	33472	11.603	ug/l	100
73) Isopropylbenzene	12.325	105	8459	1.078	ug/l	99
76) 1,2,3-Trichloropropane	12.477	75	60025	40.476	ug/l #	100
78) n-propylbenzene	12.672	91	27459	2.946	ug/l	96
79) 2-Chlorotoluene	12.733	91	7926	1.474	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.813	105	29594	4.523	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.477	75	60025	88.906	ug/l #	11
83) tert-Butylbenzene	13.117	119	15556	2.599	ug/l #	66
84) 1,2,4-Trimethylbenzene	13.117	105	126761	19.389	ug/l	97
85) sec-Butylbenzene	13.117	105	126761	14.457	ug/l #	56
90) Hexachloroethane	13.971	117	3139	2.177	ug/l #	8
95) Naphthalene	15.233	128	44902	7.920	ug/l	99

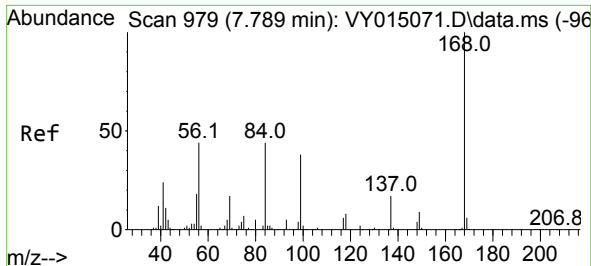
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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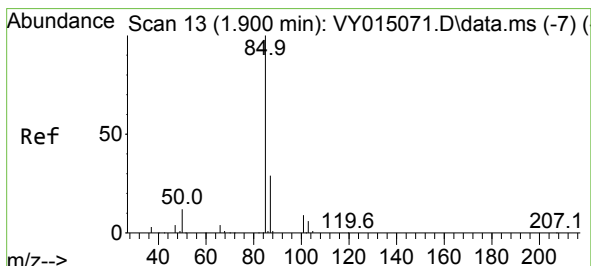
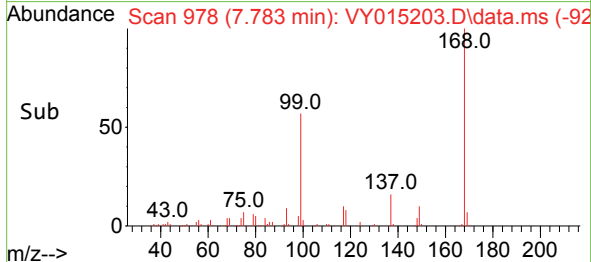
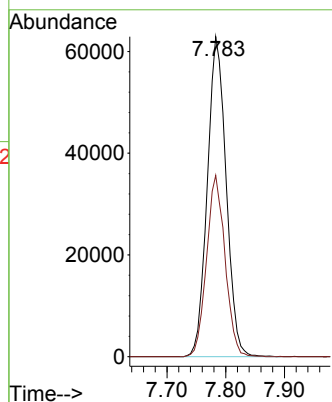
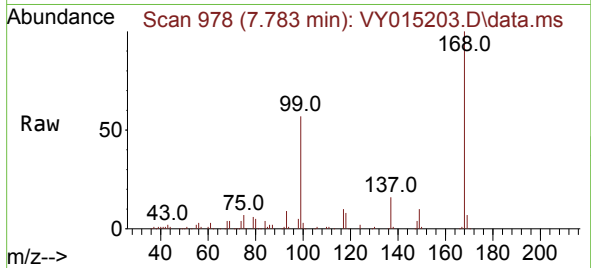




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

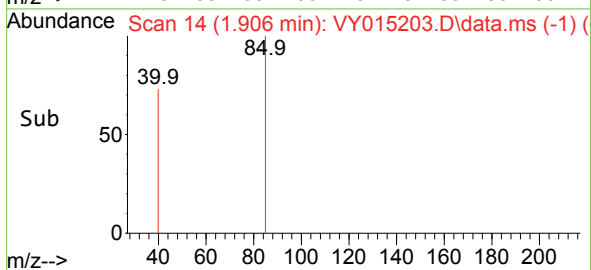
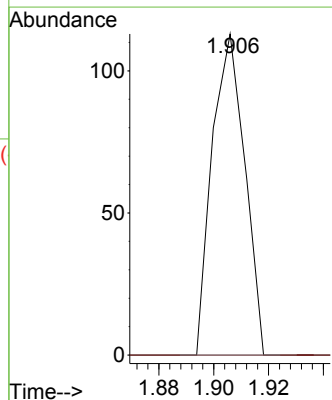
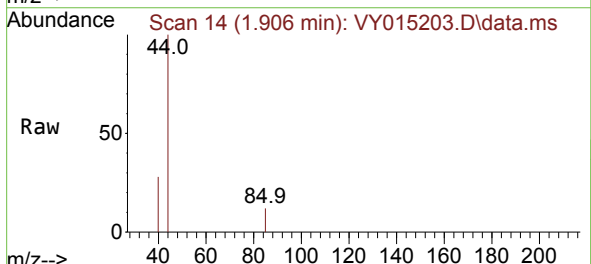
Instrument :
MSVOA_Y
ClientSampleId :

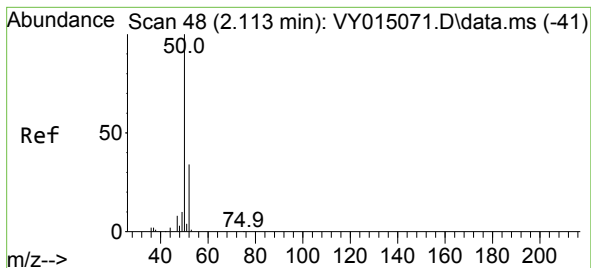
Tgt Ion:168 Resp: 139892
Ion Ratio Lower Upper
168 100
99 56.6 43.4 65.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.906 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

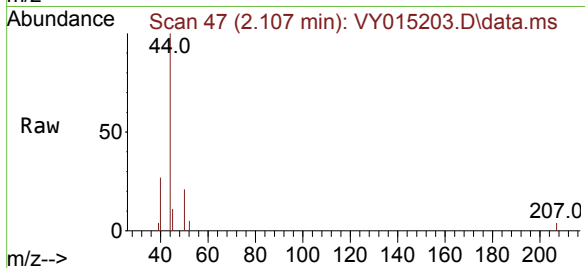
Tgt Ion: 85 Resp: 93
Ion Ratio Lower Upper
85 100
87 0.0 15.6 46.8#



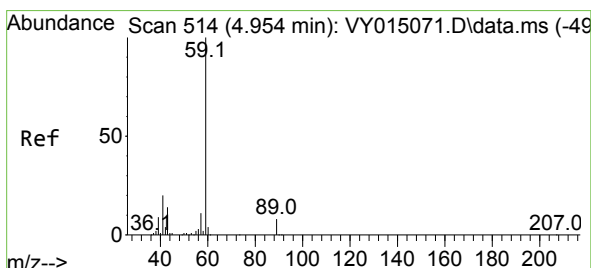
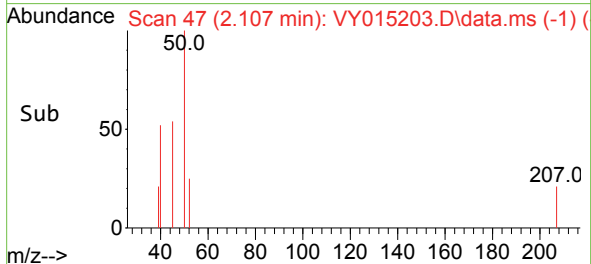
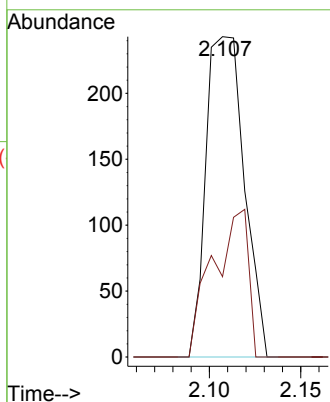


#3
Chloromethane
Concen: Below Cal
RT: 2.107 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Instrument :
MSVOA_Y
ClientSampleId :

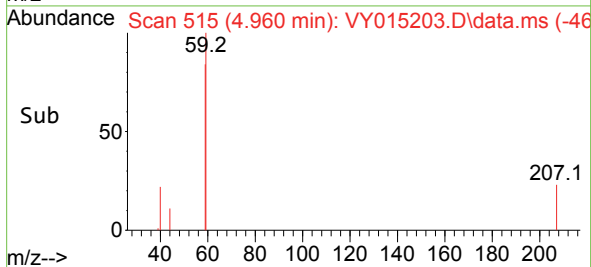
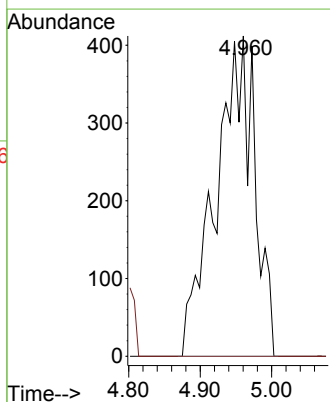
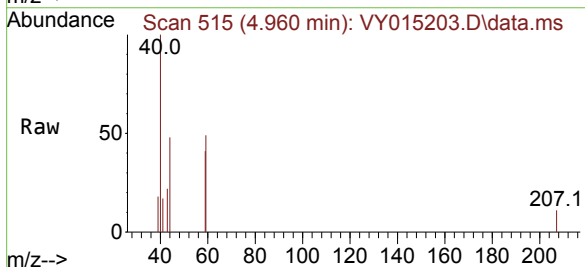


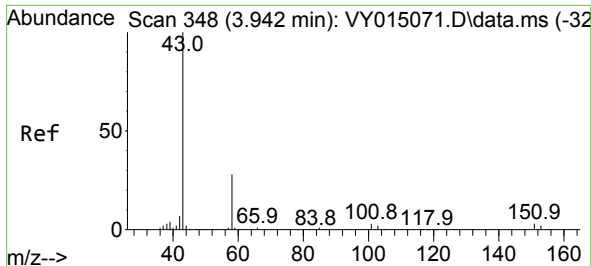
Tgt Ion: 50 Resp: 355
Ion Ratio Lower Upper
50 100
52 25.1 25.4 38.2#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.960 min Scan# 515
Delta R.T. 0.012 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Tgt Ion: 59 Resp: 1548
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#





#16

Acetone

Concen: 2.572 ug/l

RT: 3.936 min Scan# 34

Delta R.T. -0.006 min

Lab File: VY015203.D

Acq: 18 Aug 2023 18:10

Instrument :

MSVOA_Y

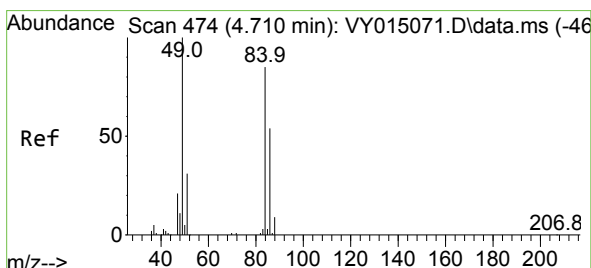
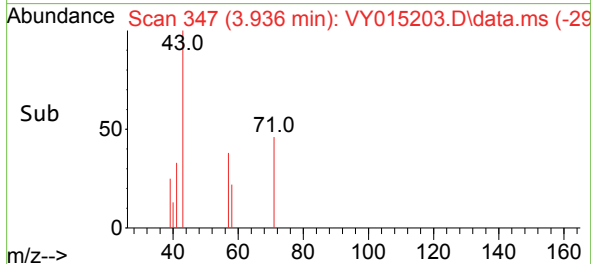
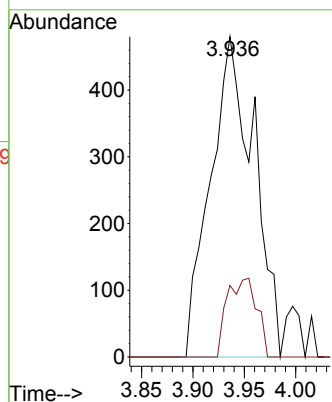
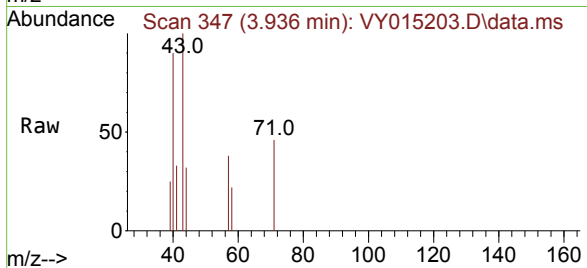
ClientSampleId :

Tgt Ion: 43 Resp: 1411

Ion Ratio Lower Upper

43 100

58 22.3 22.7 34.1#



#20

Methylene Chloride

Concen: 17.004 ug/l

RT: 4.704 min Scan# 473

Delta R.T. -0.006 min

Lab File: VY015203.D

Acq: 18 Aug 2023 18:10

Tgt Ion: 84 Resp: 26116

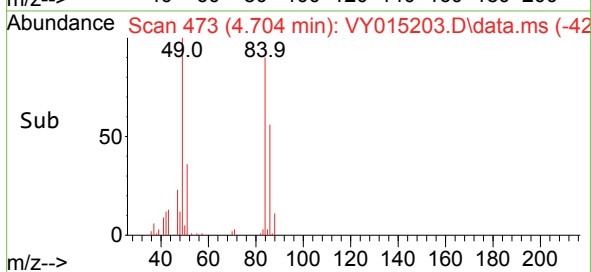
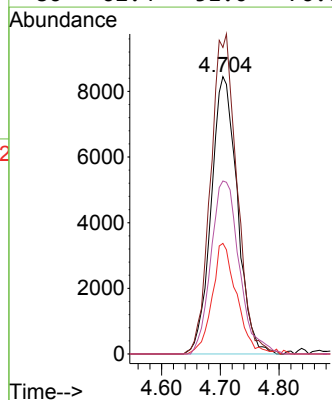
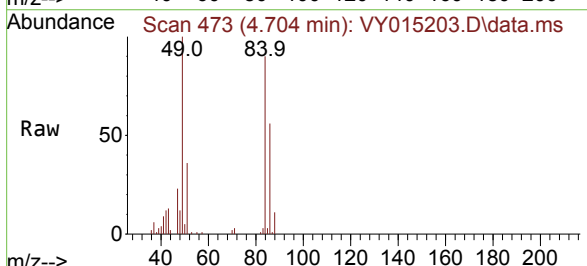
Ion Ratio Lower Upper

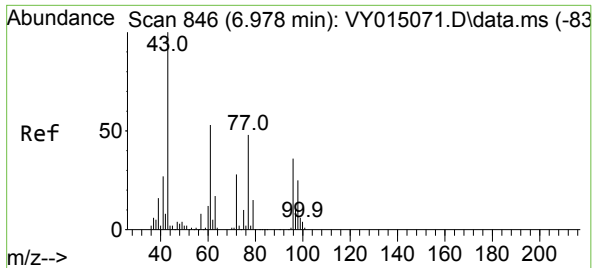
84 100

49 110.6 106.9 160.3

51 39.9 33.2 49.8

86 62.4 51.0 76.6

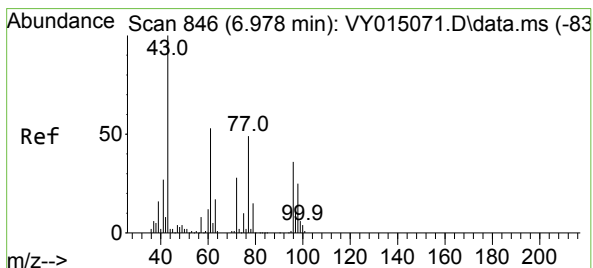
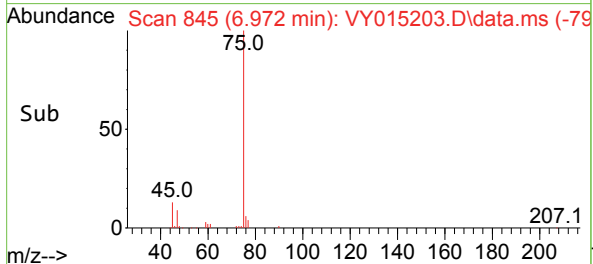
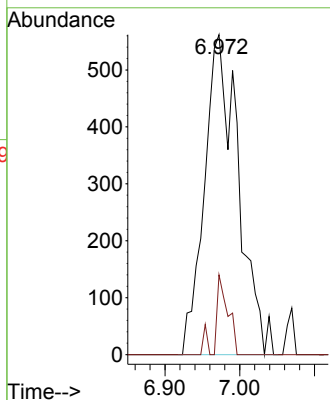
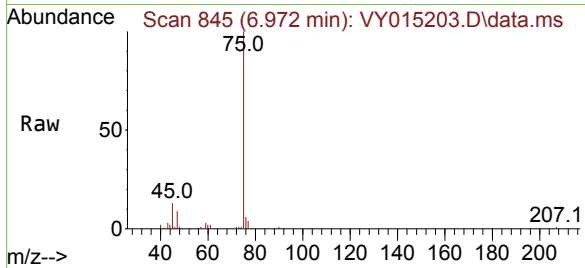




#25
2-Butanone
Concen: 2.283 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.006 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

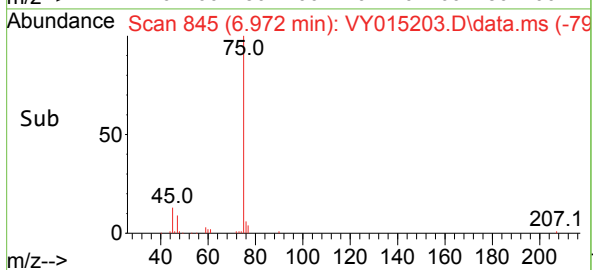
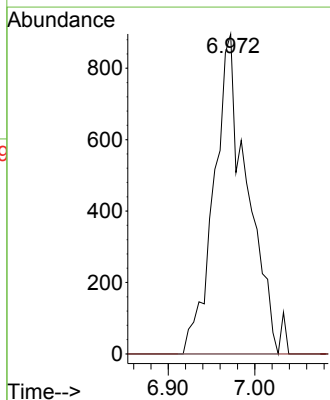
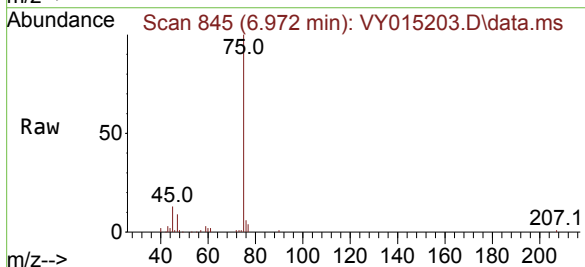
Instrument :
MSVOA_Y
ClientSampleId :

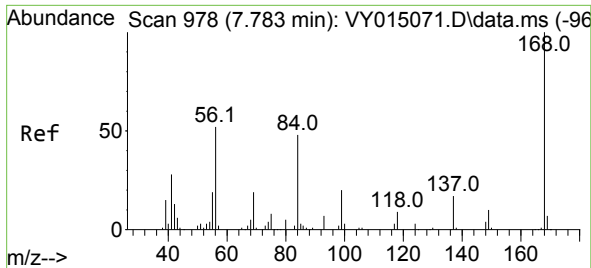
Tgt Ion: 43 Resp: 1773
Ion Ratio Lower Upper
43 100
72 24.9 20.5 30.7



#26
2,2-Dichloropropane
Concen: 1.054 ug/l
RT: 6.972 min Scan# 845
Delta R.T. 0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

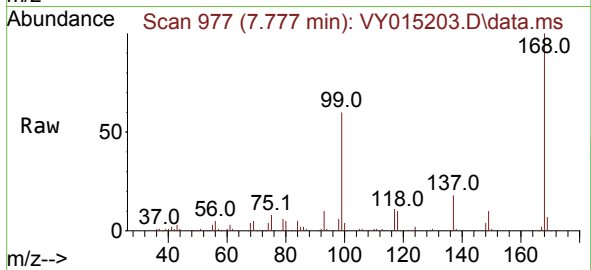
Tgt Ion: 77 Resp: 2369
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



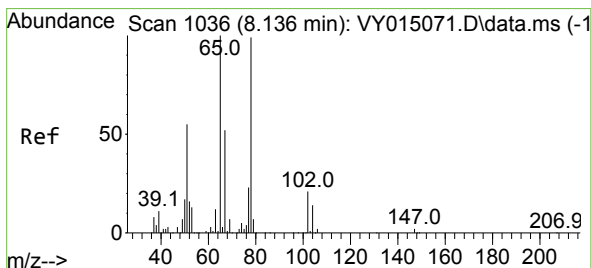
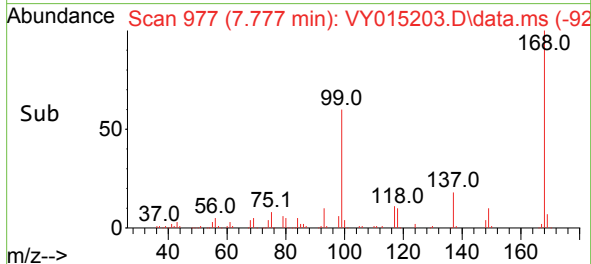
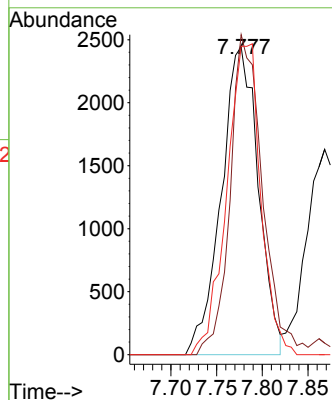


#31
Cyclohexane
Concen: 2.151 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Instrument :
MSVOA_Y
ClientSampleId :

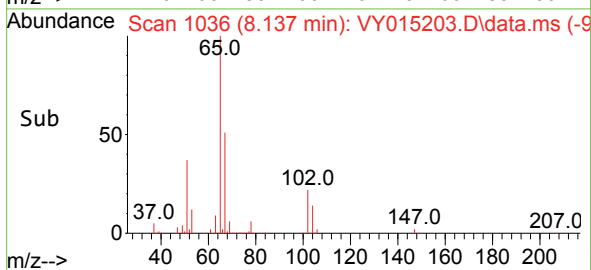
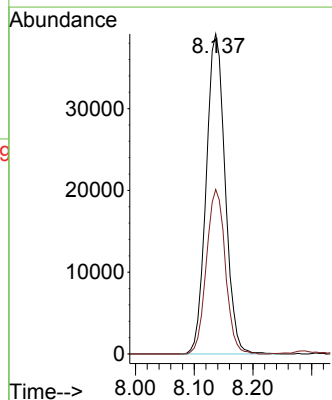
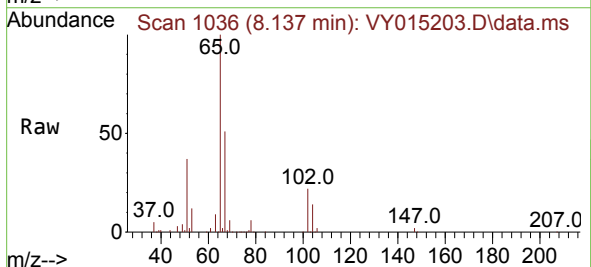


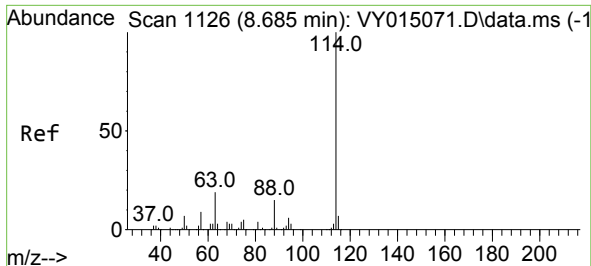
Tgt Ion: 56 Resp: 6892
Ion Ratio Lower Upper
56 100
69 104.0 27.8 41.6#
84 100.3 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 52.167 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Tgt Ion: 65 Resp: 87602
Ion Ratio Lower Upper
65 100
67 51.4 0.0 101.8

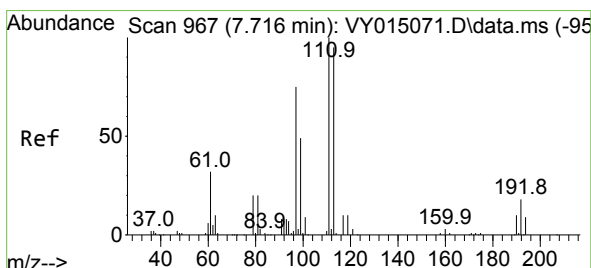
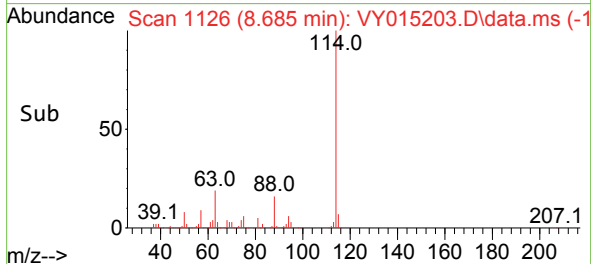
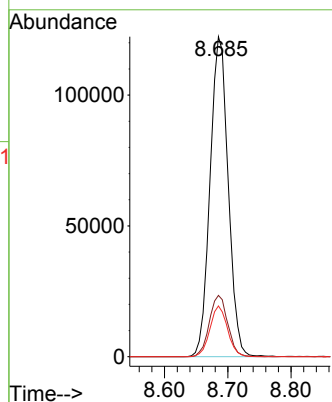
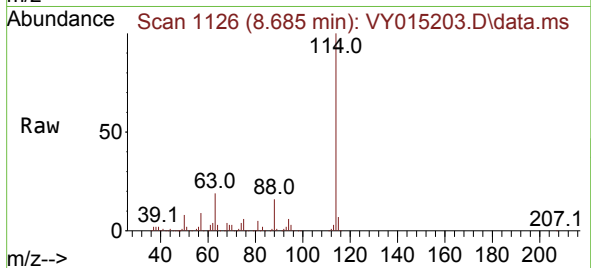




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

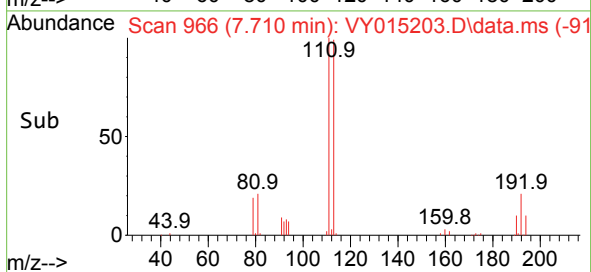
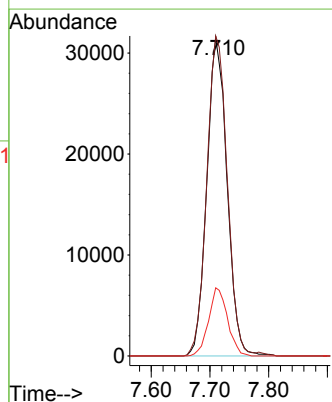
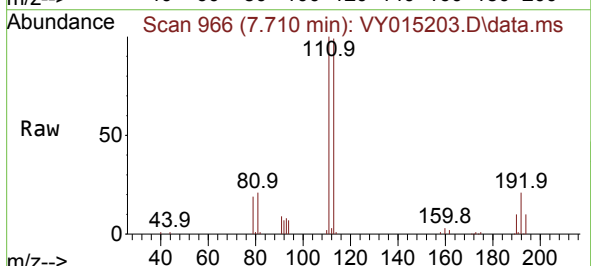
Instrument :
MSVOA_Y
ClientSampleId :

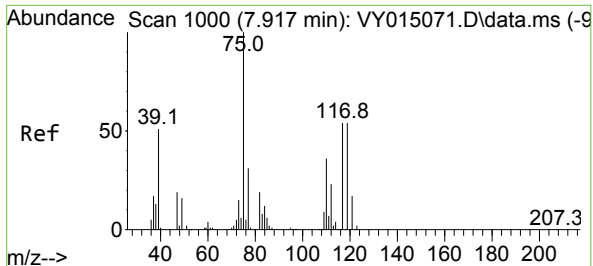
Tgt Ion:114 Resp: 243351
Ion Ratio Lower Upper
114 100
63 19.2 0.0 42.4
88 15.9 0.0 30.6



#35
Dibromofluoromethane
Concen: 48.076 ug/l
RT: 7.710 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Tgt Ion:113 Resp: 75266
Ion Ratio Lower Upper
113 100
111 102.4 81.3 121.9
192 20.1 16.9 25.3





#36

1,1-Dichloropropene

Concen: 6.355 ug/l

RT: 7.777 min Scan# 91

Delta R.T. -0.134 min

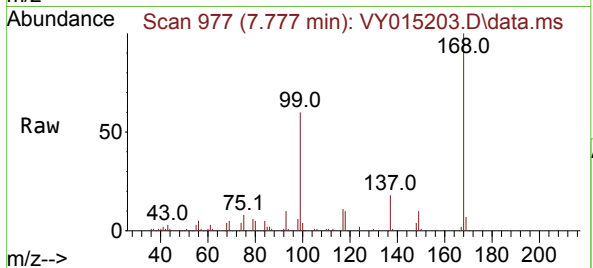
Lab File: VY015203.D

Acq: 18 Aug 2023 18:10

Instrument :

MSVOA_Y

ClientSampleId :



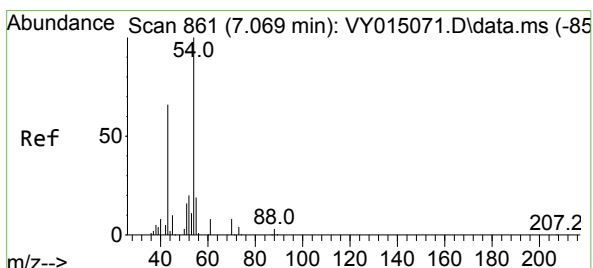
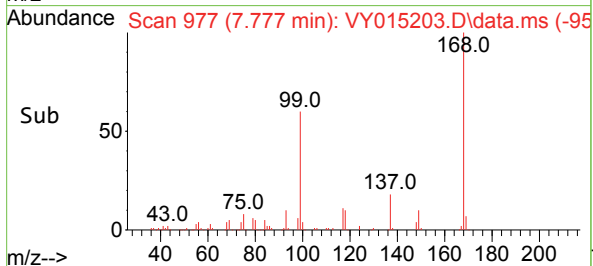
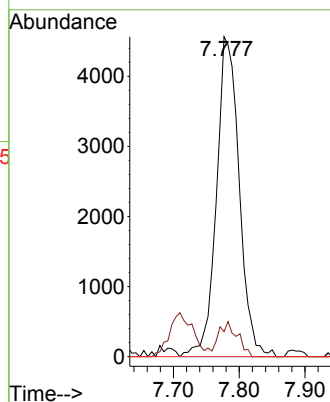
Tgt Ion: 75 Resp: 11007

Ion Ratio Lower Upper

75 100

110 8.8 17.8 53.5#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 1.098 ug/l

RT: 6.972 min Scan# 845

Delta R.T. -0.097 min

Lab File: VY015203.D

Acq: 18 Aug 2023 18:10

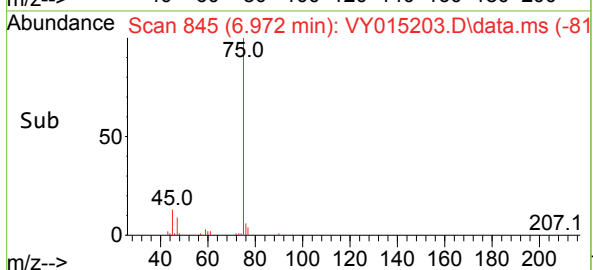
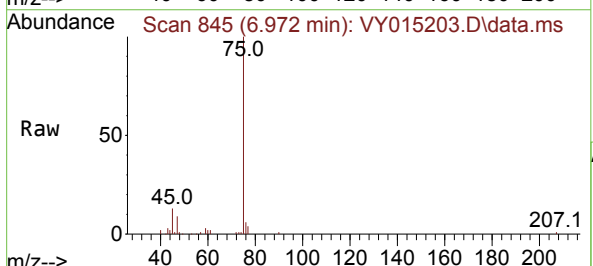
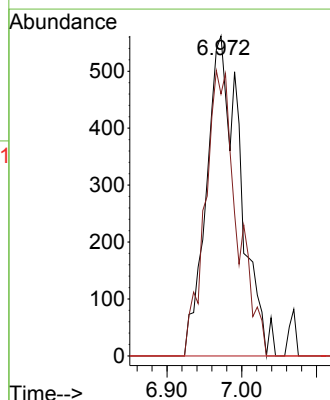
Tgt Ion: 43 Resp: 1773

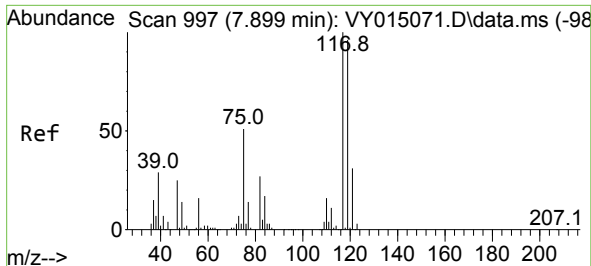
Ion Ratio Lower Upper

43 100

61 84.3 10.1 15.1#

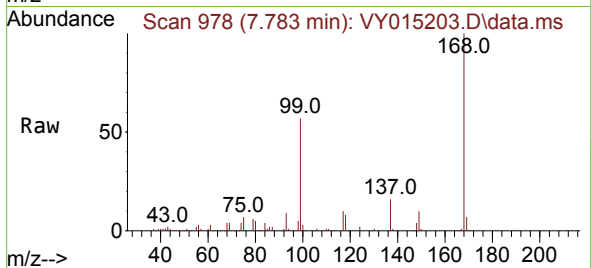
70 0.0 7.1 10.7#



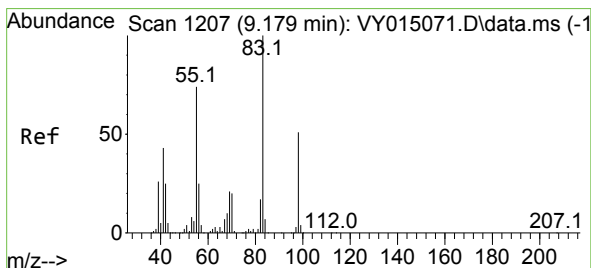
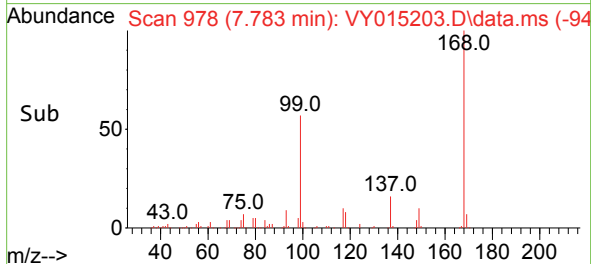
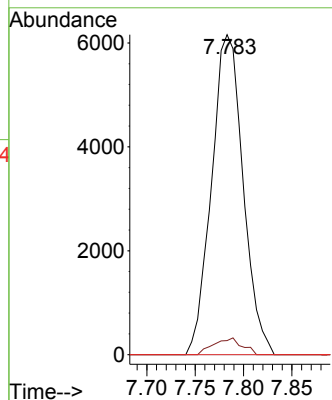


#38
Carbon Tetrachloride
Concen: 6.806 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Instrument :
MSVOA_Y
ClientSampleId :

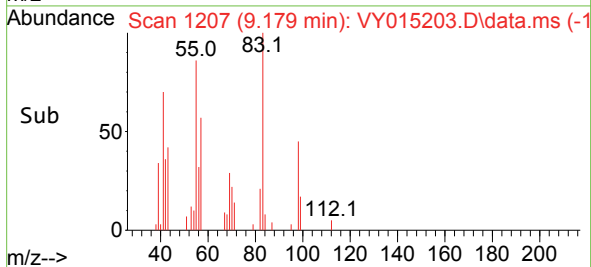
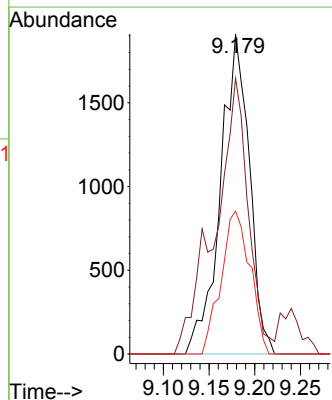
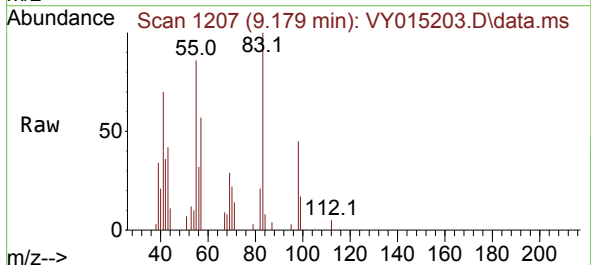


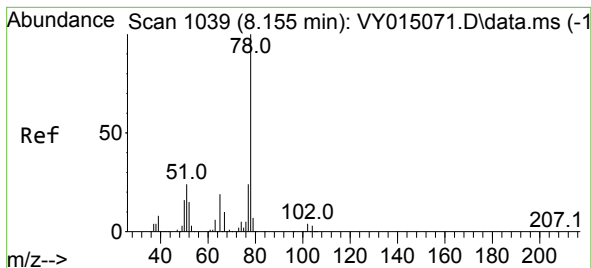
Tgt Ion:117 Resp: 13951
Ion Ratio Lower Upper
117 100
119 4.4 76.4 114.6#
121 0.0 25.8 38.6#



#39
Methylcyclohexane
Concen: 2.166 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. 0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Tgt Ion: 83 Resp: 4205
Ion Ratio Lower Upper
83 100
55 81.5 63.0 94.4
98 44.6 37.4 56.2





#40

Benzene

Concen: 2.105 ug/l

RT: 8.155 min Scan# 11023

Delta R.T. 0.000 min

Lab File: VY015203.D

Acq: 18 Aug 2023 18:10

Instrument :

MSVOA_Y

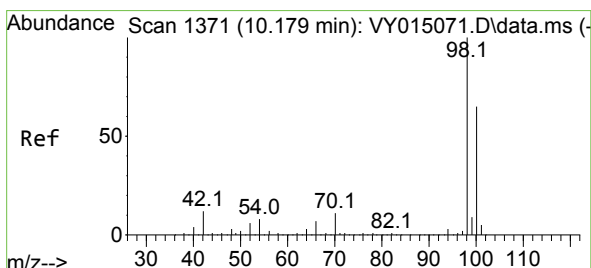
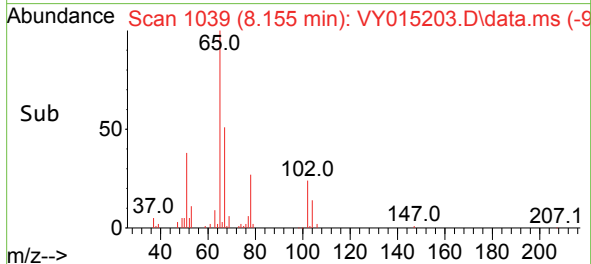
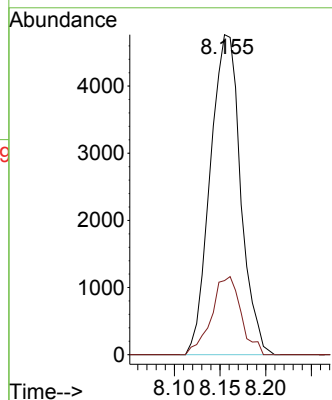
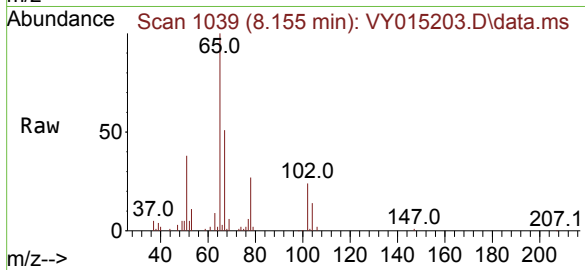
ClientSampleId :

Tgt Ion: 78 Resp: 11023

Ion Ratio Lower Upper

78 100

77 23.1 19.0 28.6



#50

Toluene-d8

Concen: 50.001 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.000 min

Lab File: VY015203.D

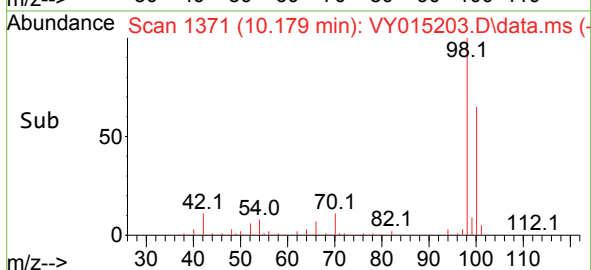
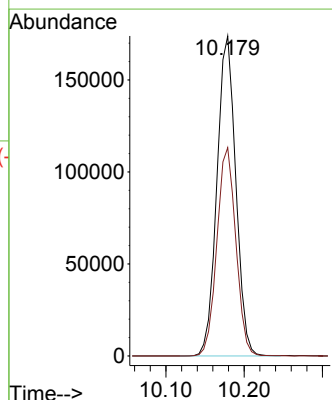
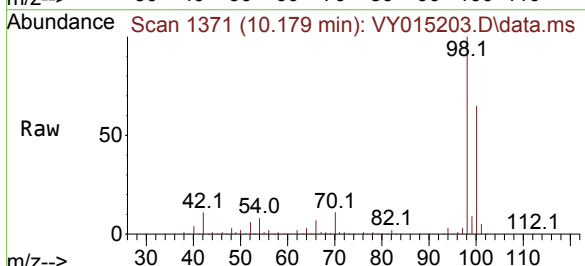
Acq: 18 Aug 2023 18:10

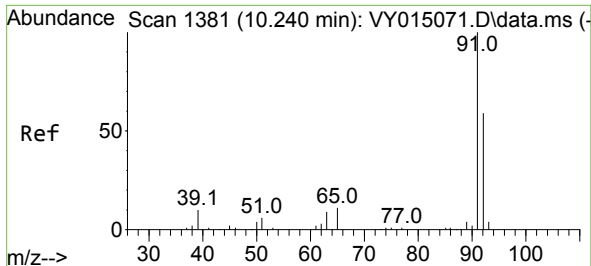
Tgt Ion: 98 Resp: 291399

Ion Ratio Lower Upper

98 100

100 65.4 50.1 75.1

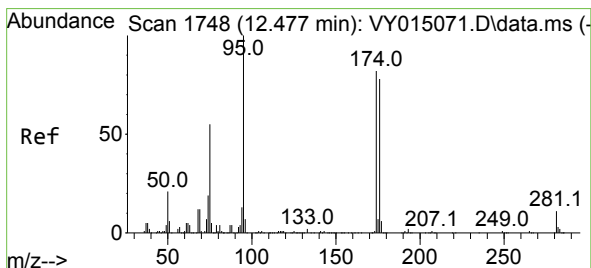
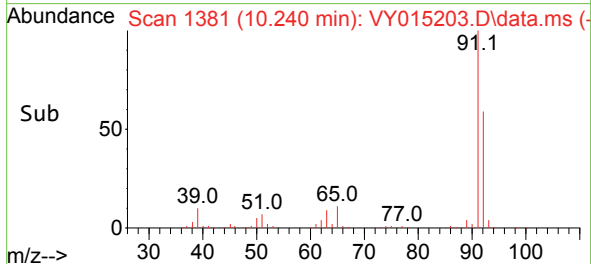
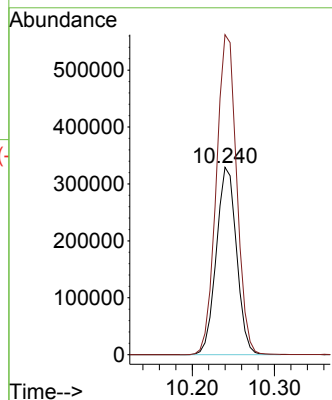
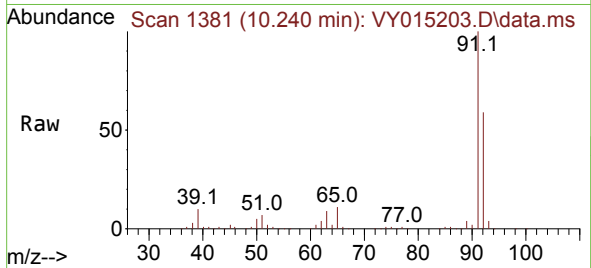




#52
Toluene
Concen: 163.246 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

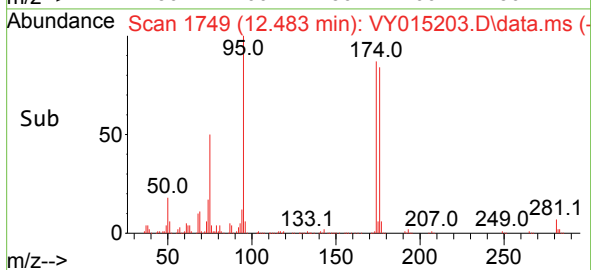
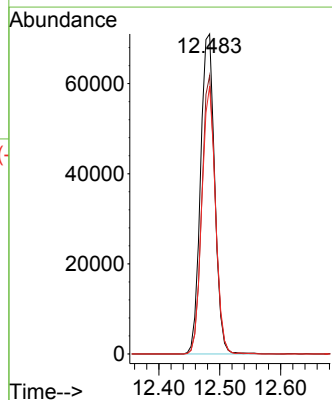
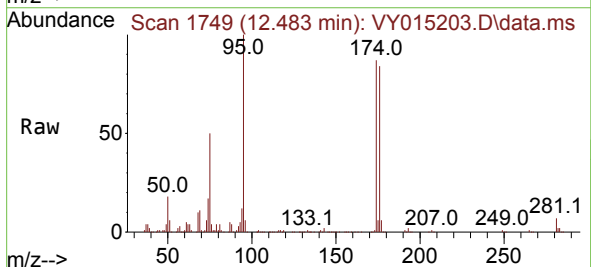
Instrument :
MSVOA_Y
ClientSampleId :

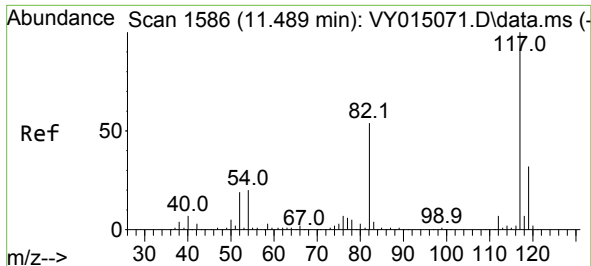
Tgt Ion: 92 Resp: 563431
Ion Ratio Lower Upper
92 100
91 172.3 143.8 215.6



#62
4-Bromofluorobenzene
Concen: 53.809 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

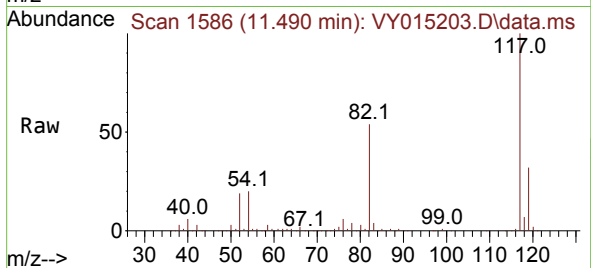
Tgt Ion: 95 Resp: 114539
Ion Ratio Lower Upper
95 100
174 82.7 0.0 178.2
176 80.8 0.0 173.8



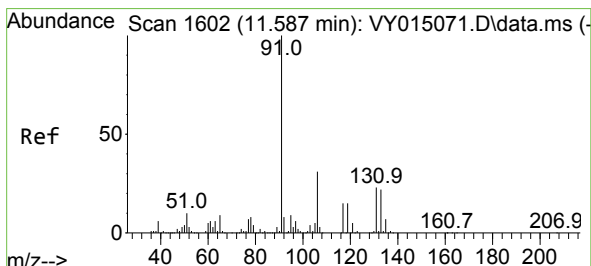
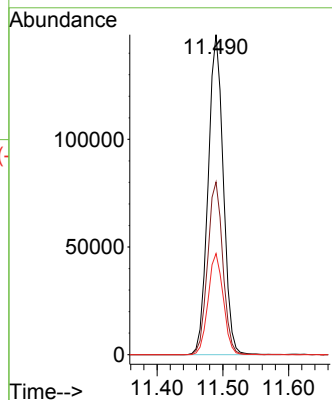
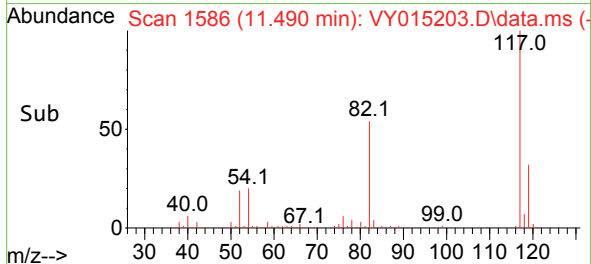


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Instrument :
MSVOA_Y
ClientSampleId :

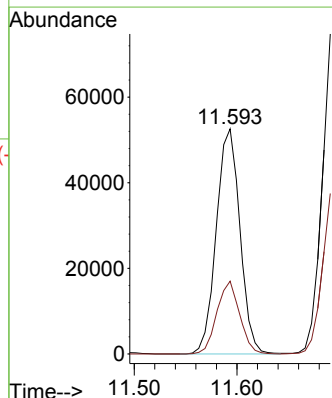
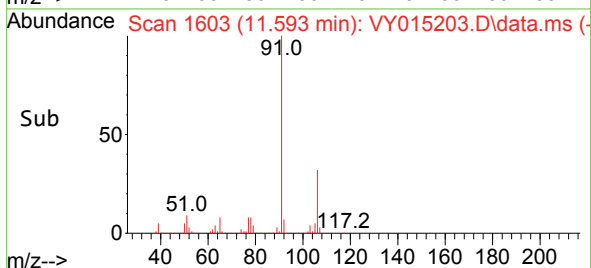
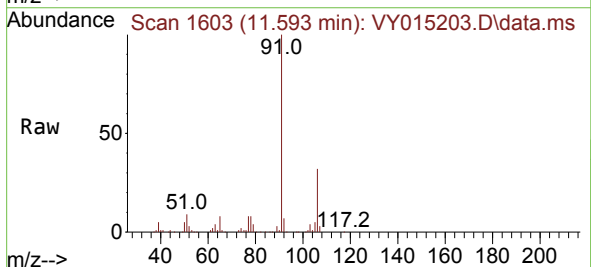


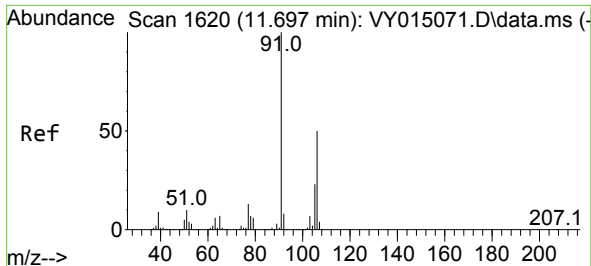
Tgt Ion:117 Resp: 238840
Ion Ratio Lower Upper
117 100
82 53.9 43.4 65.0
119 31.6 26.3 39.5



#67
Ethyl Benzene
Concen: 11.002 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.006 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Tgt Ion: 91 Resp: 83884
Ion Ratio Lower Upper
91 100
106 32.3 24.6 36.8

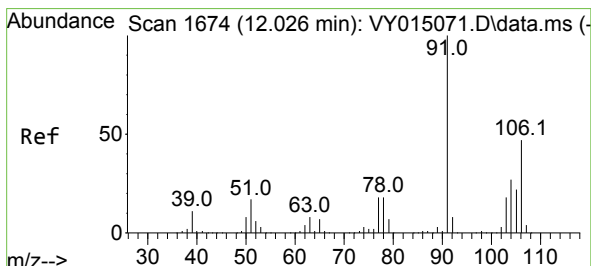
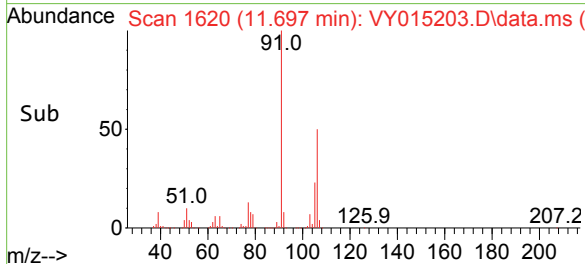
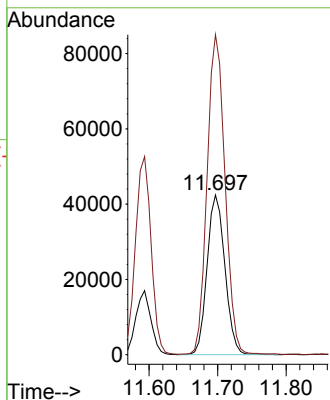
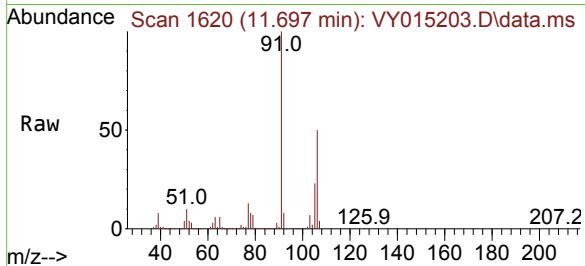




#68
m/p-Xylenes
Concen: 26.440 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

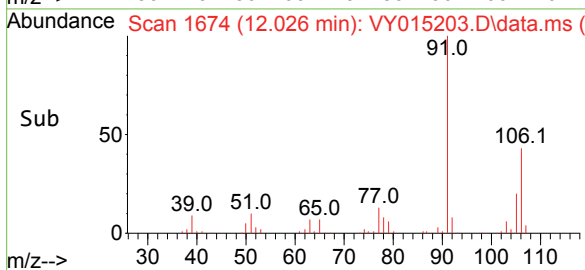
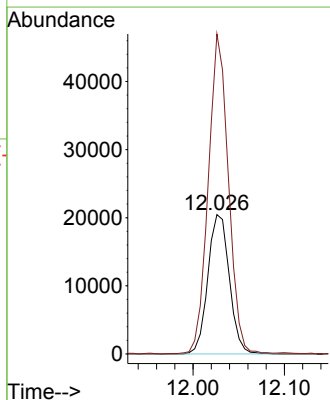
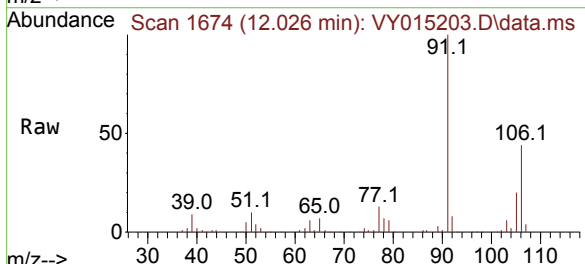
Instrument :
MSVOA_Y
ClientSampleId :

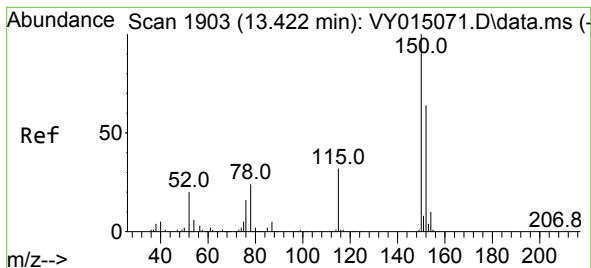
Tgt Ion:106 Resp: 76565
Ion Ratio Lower Upper
106 100
91 200.8 166.1 249.1



#69
o-Xylene
Concen: 11.603 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Tgt Ion:106 Resp: 33472
Ion Ratio Lower Upper
106 100
91 216.0 108.1 324.3

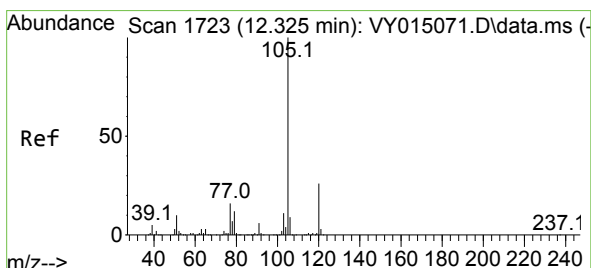
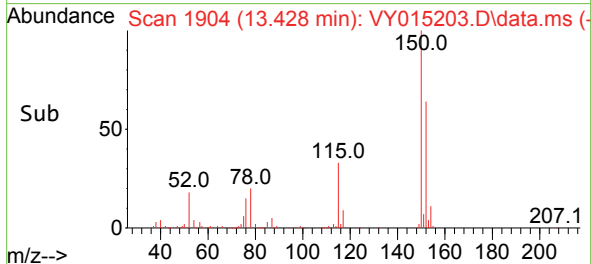
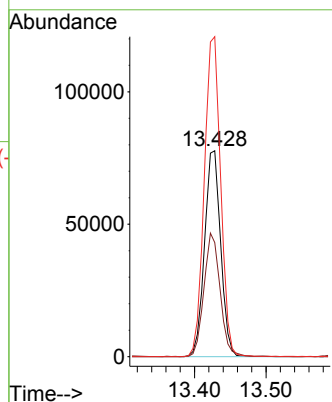
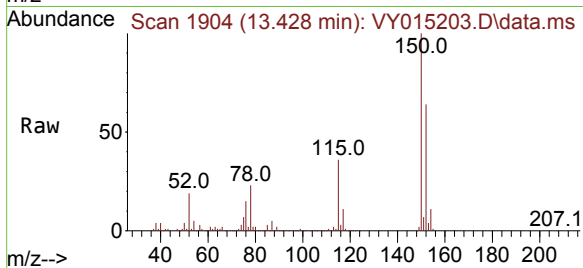




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1903
Delta R.T. 0.006 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

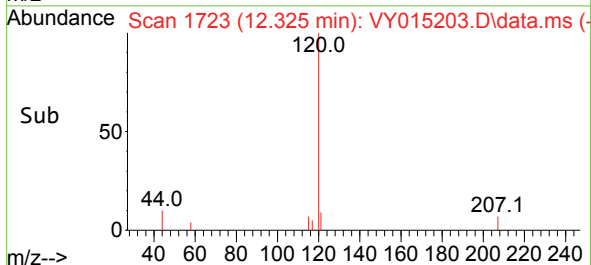
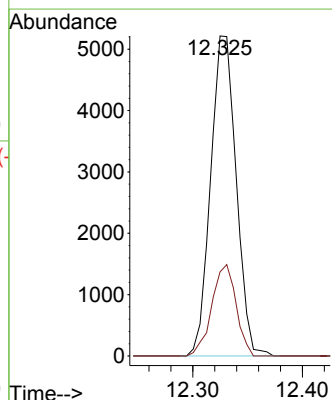
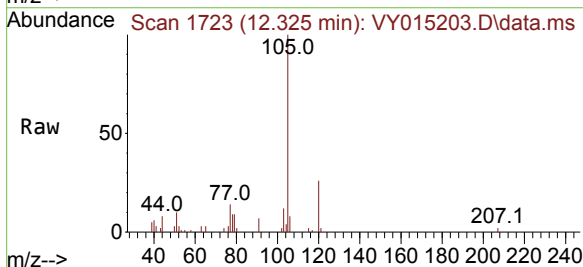
Instrument :
MSVOA_Y
ClientSampleId :

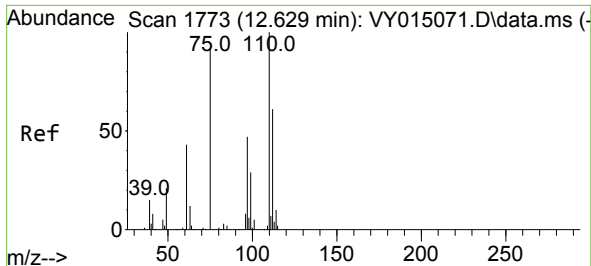
Tgt Ion:152 Resp: 122062
Ion Ratio Lower Upper
152 100
115 60.1 28.8 86.5
150 157.4 0.0 348.8



#73
Isopropylbenzene
Concen: 1.078 ug/l
RT: 12.325 min Scan# 1723
Delta R.T. 0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Tgt Ion:105 Resp: 8459
Ion Ratio Lower Upper
105 100
120 27.1 13.3 39.9

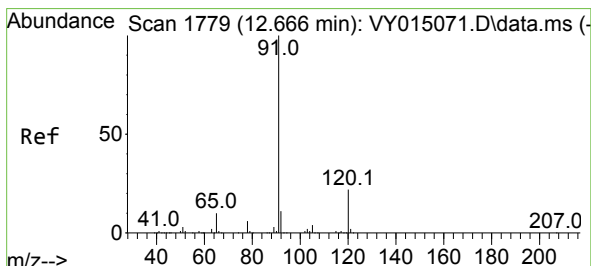
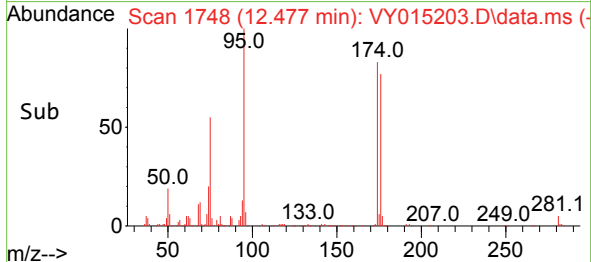
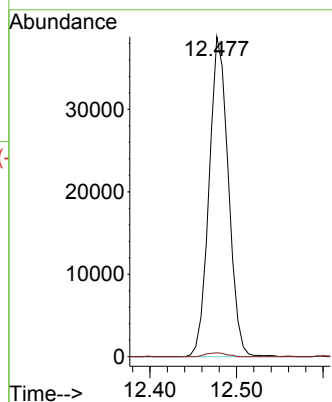
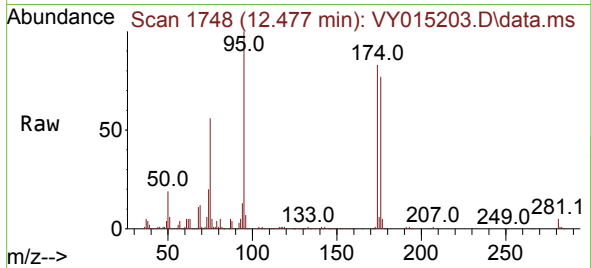




#76
1,2,3-Trichloropropane
Concen: 40.476 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.152 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

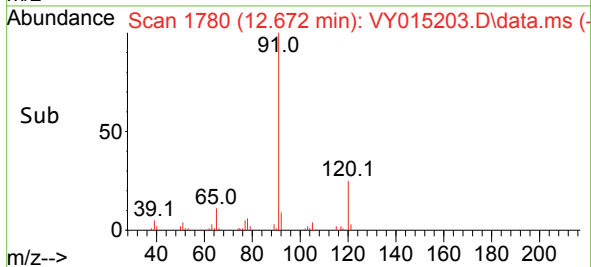
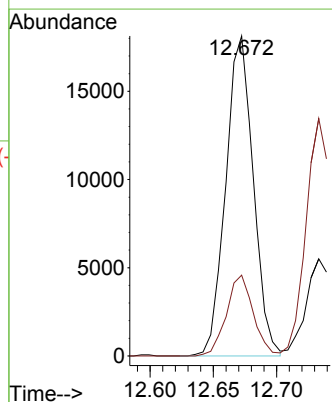
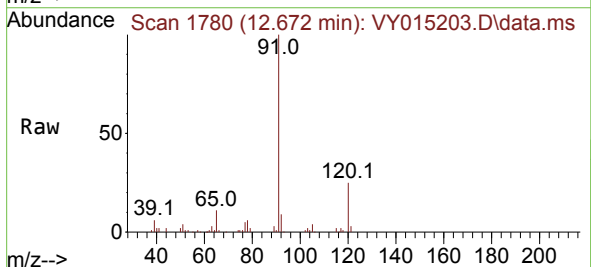
Instrument :
MSVOA_Y
ClientSampleId :

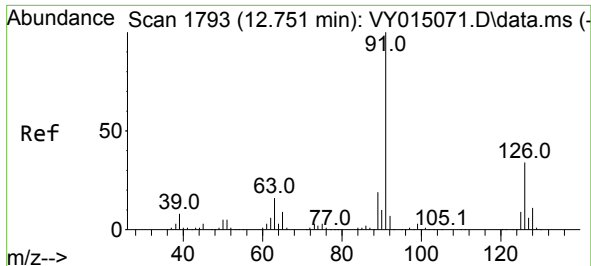
Tgt Ion: 75 Resp: 60025
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#78
n-propylbenzene
Concen: 2.946 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.006 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Tgt Ion: 91 Resp: 27459
Ion Ratio Lower Upper
91 100
120 24.7 11.5 34.4





#79

2-Chlorotoluene

Concen: 1.474 ug/l

RT: 12.733 min Scan# 11

Delta R.T. -0.018 min

Lab File: VY015203.D

Acq: 18 Aug 2023 18:10

Instrument :

MSVOA_Y

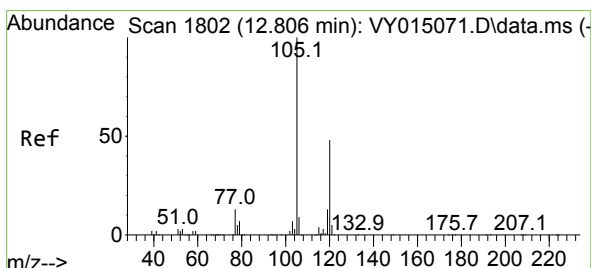
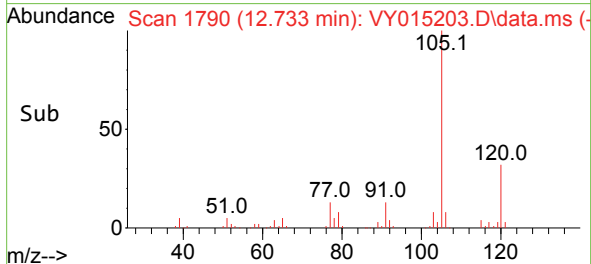
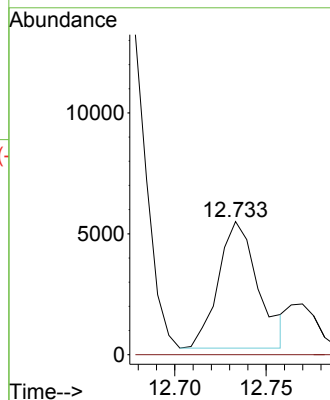
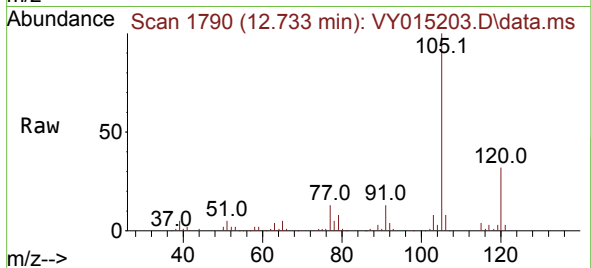
ClientSampleId :

Tgt Ion: 91 Resp: 7926

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.7#



#80

1,3,5-Trimethylbenzene

Concen: 4.523 ug/l

RT: 12.813 min Scan# 1803

Delta R.T. 0.000 min

Lab File: VY015203.D

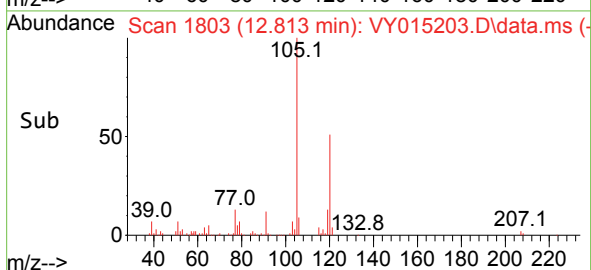
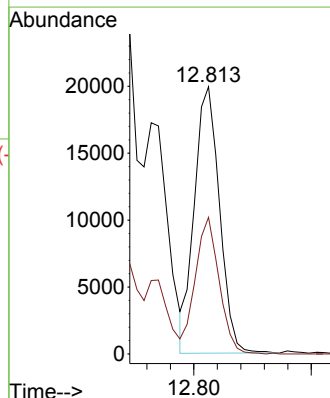
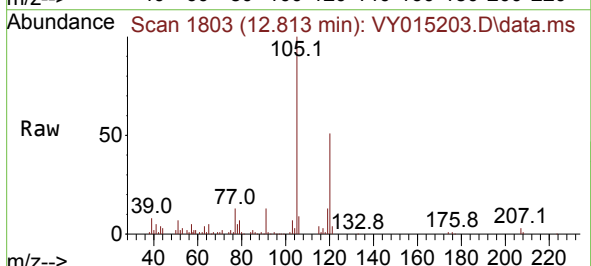
Acq: 18 Aug 2023 18:10

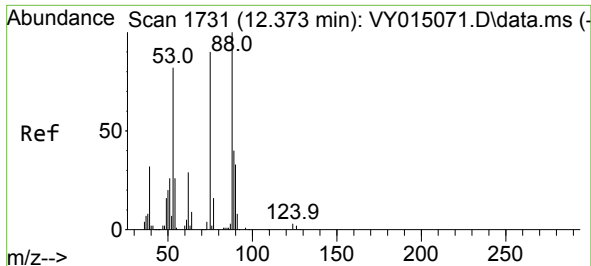
Tgt Ion:105 Resp: 29594

Ion Ratio Lower Upper

105 100

120 48.9 23.9 71.7

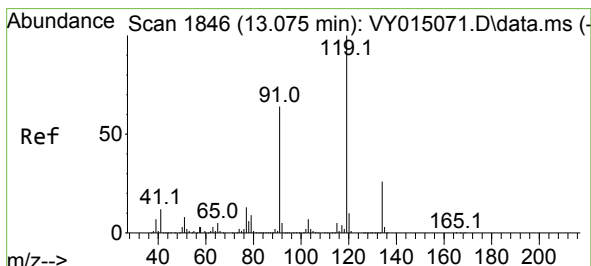
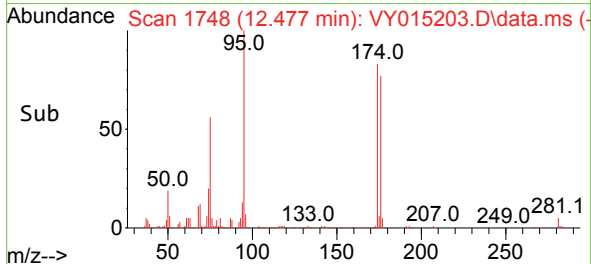
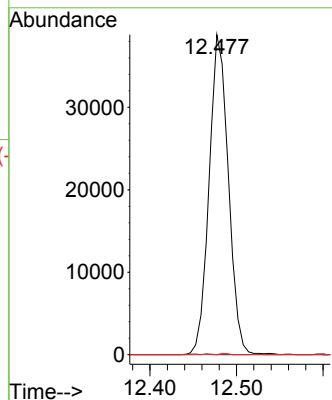
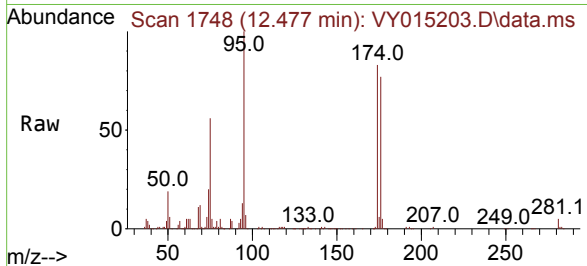




#81
trans-1,4-Dichloro-2-butene
Concen: 88.906 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

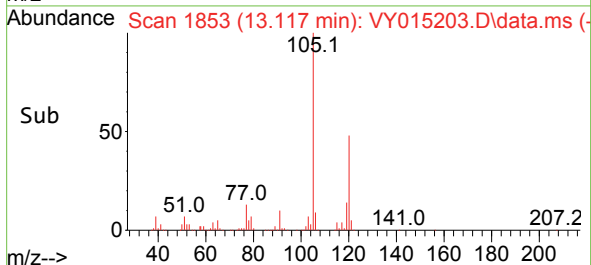
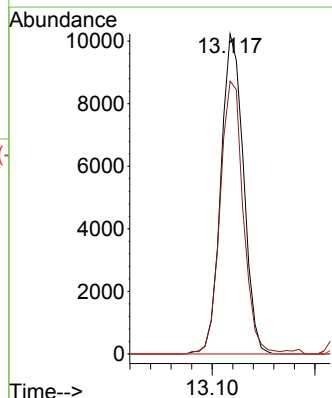
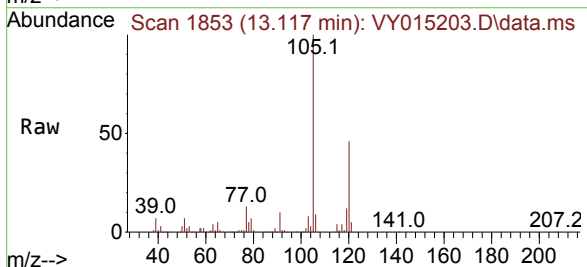
Instrument :
MSVOA_Y
ClientSampleId :

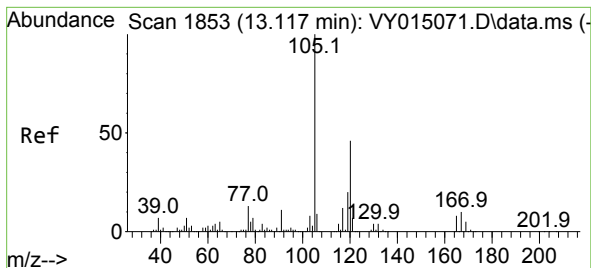
Tgt Ion: 75 Resp: 60025
Ion Ratio Lower Upper
75 100
53 0.1 77.8 116.8#
89 0.2 37.4 56.0#



#83
tert-Butylbenzene
Concen: 2.599 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.043 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Tgt Ion: 119 Resp: 15556
Ion Ratio Lower Upper
119 100
91 87.6 32.9 98.6
134 0.0 13.0 38.9#





#84

1,2,4-Trimethylbenzene

Concen: 19.389 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY015203.D

Acq: 18 Aug 2023 18:10

Instrument :

MSVOA_Y

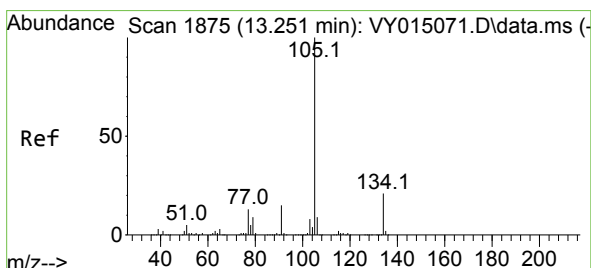
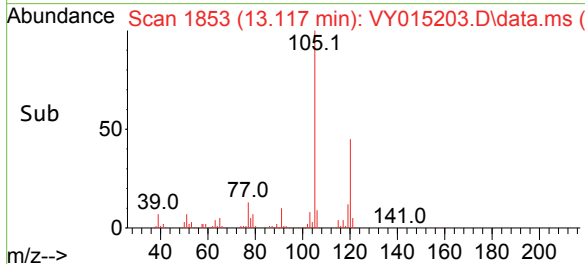
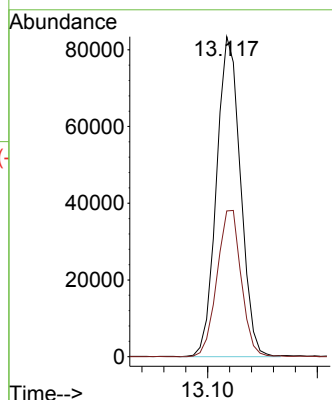
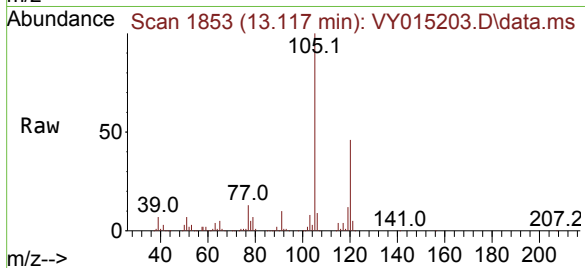
ClientSampleId :

Tgt Ion:105 Resp: 126761

Ion Ratio Lower Upper

105 100

120 46.3 22.2 66.6



#85

sec-Butylbenzene

Concen: 14.457 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.134 min

Lab File: VY015203.D

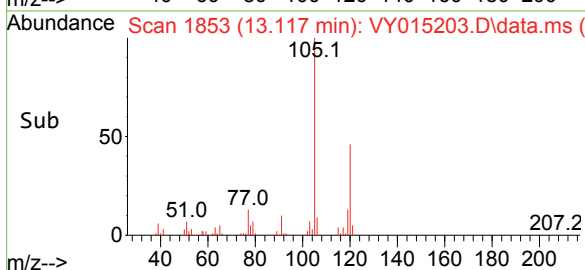
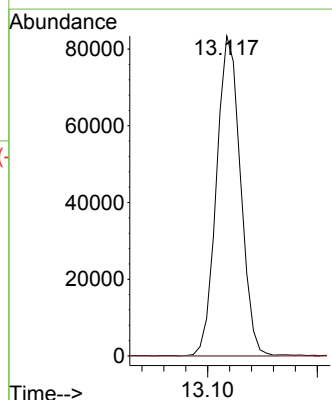
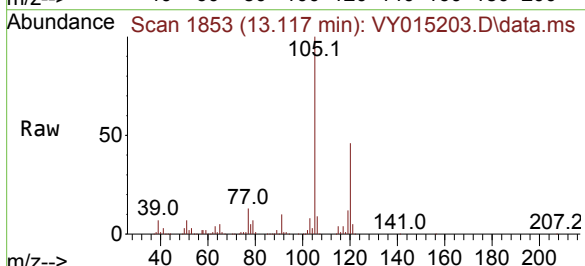
Acq: 18 Aug 2023 18:10

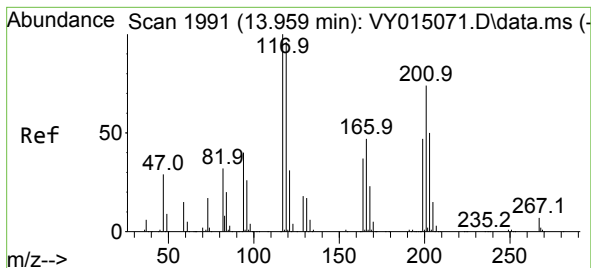
Tgt Ion:105 Resp: 126761

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#

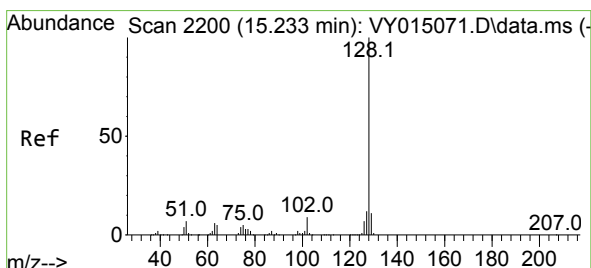
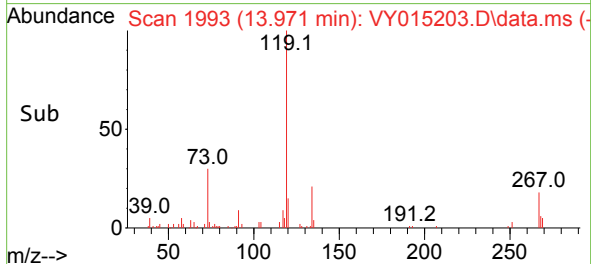
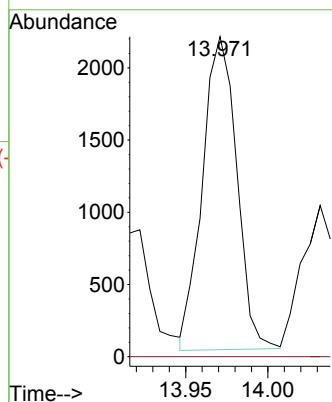
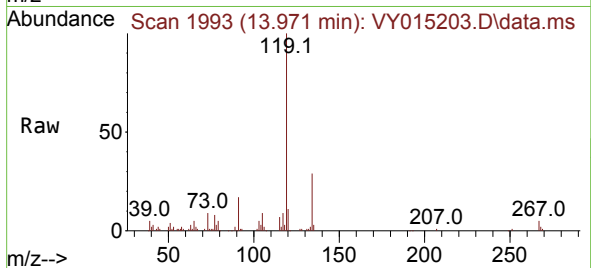




#90
Hexachloroethane
Concen: 2.177 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:117 Resp: 3139
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



#95
Naphthalene
Concen: 7.920 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. 0.000 min
Lab File: VY015203.D
Acq: 18 Aug 2023 18:10

Tgt Ion:128 Resp: 44902
Ion Ratio Lower Upper
128 100
127 13.2 10.8 16.2
129 11.3 8.6 13.0

