

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080923\
 Data File : VY015012.D
 Acq On : 09 Aug 2023 17:53
 Operator : SY/MD
 Sample : 03943-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-PP21A

Quant Time: Aug 10 01:49:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y080723S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 07:44:56 2023
 Response via : Initial Calibration

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

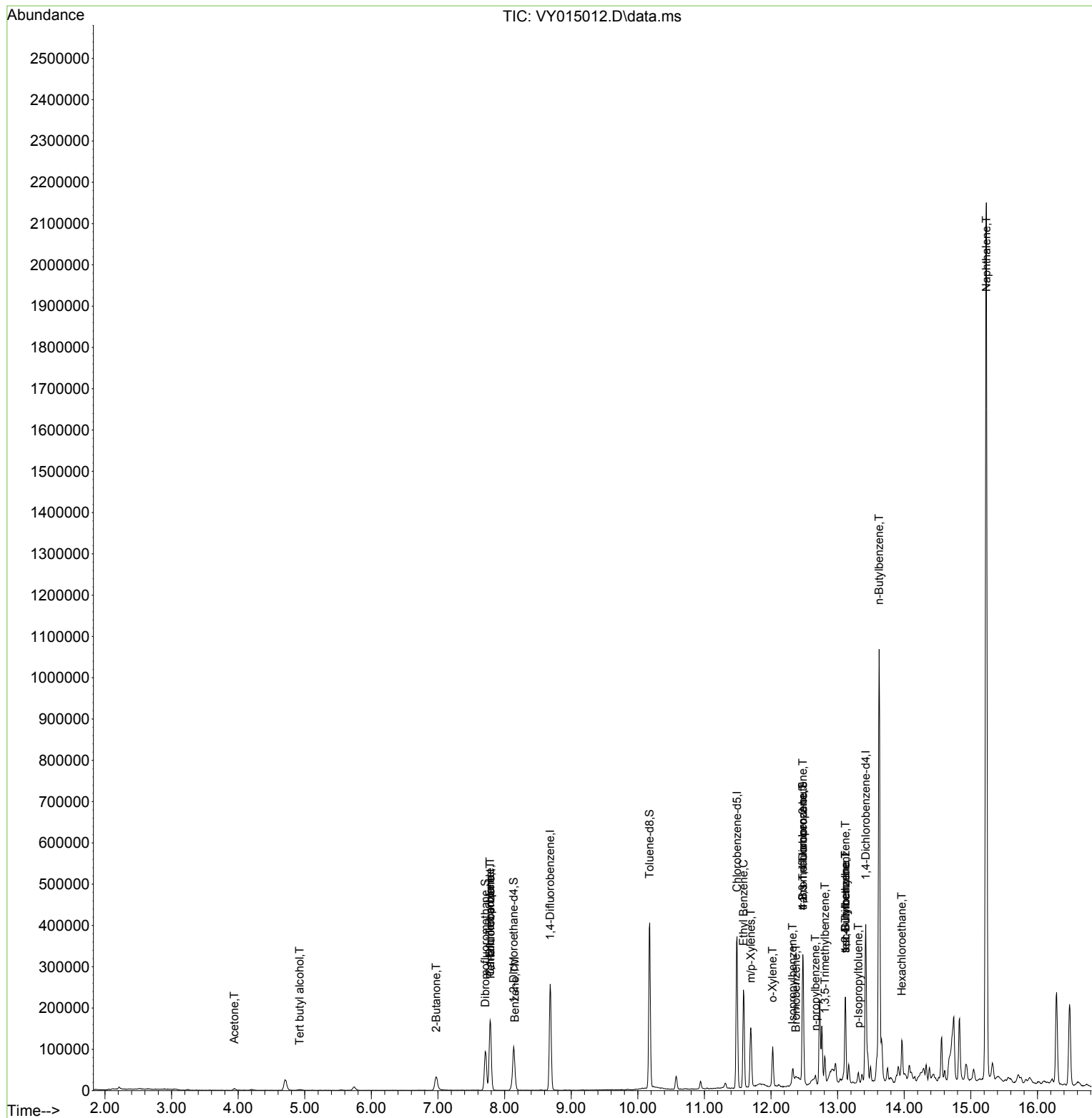
Internal Standards						
1) Pentafluorobenzene	7.789	168	133353	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	221332	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	199853	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	96608	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	73018	45.177	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	90.360%
35) Dibromofluoromethane	7.710	113	68918	48.692	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.380%
50) Toluene-d8	10.179	98	259204	48.114	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.220%
62) 4-Bromofluorobenzene	12.477	95	95484	50.009	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	100.020%
Target Compounds						
					Qvalue	
5) Bromomethane	2.656	94	688	Below Cal		88
11) Tert butyl alcohol	4.924	59	1390	3.563 ug/l #		89
16) Acetone	3.942	43	7453	14.788 ug/l		96
20) Methylene Chloride	4.704	84	19717	Below Cal		90
25) 2-Butanone	6.972	43	2143	2.969 ug/l #		49
31) Cyclohexane	7.789	56	2829	Below Cal #		18
36) 1,1-Dichloropropene	7.783	75	9983	5.681 ug/l #		50
38) Carbon Tetrachloride	7.783	117	13397	6.782 ug/l #		16
40) Benzene	8.155	78	12879	2.489 ug/l #		82
67) Ethyl Benzene	11.587	91	164540	24.723 ug/l		99
68) m/p-Xylenes	11.697	106	43754	17.186 ug/l		100
69) o-Xylene	12.026	106	25099	10.075 ug/l		96
73) Isopropylbenzene	12.325	105	18788	2.893 ug/l		98
76) 1,2,3-Trichloropropane	12.477	75	50444	43.577 ug/l #		100
77) Bromobenzene	12.374	156	35974	22.837 ug/l #		1
78) n-propylbenzene	12.666	91	12649	1.628 ug/l		92
80) 1,3,5-Trimethylbenzene	12.812	105	28857	5.392 ug/l		92
81) trans-1,4-Dichloro-2-b...	12.477	75	50444	96.001 ug/l #		11
83) tert-Butylbenzene	13.117	119	14198	2.900 ug/l #		55
84) 1,2,4-Trimethylbenzene	13.117	105	109663	20.453 ug/l		98
85) sec-Butylbenzene	13.117	105	109663	15.262 ug/l #		56
86) p-Isopropyltoluene	13.312	119	11881	1.998 ug/l		95
89) n-Butylbenzene	13.623	91	101404	18.146 ug/l #		44
90) Hexachloroethane	13.965	117	5536	4.793 ug/l #		8
95) Naphthalene	15.233	128	1761814	411.195 ug/l		99

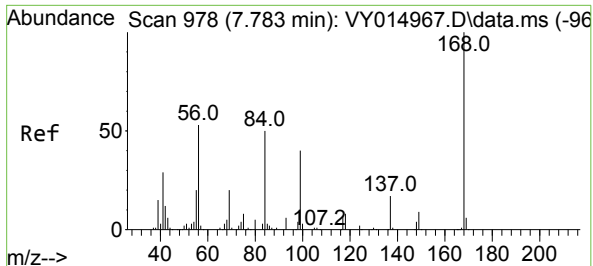
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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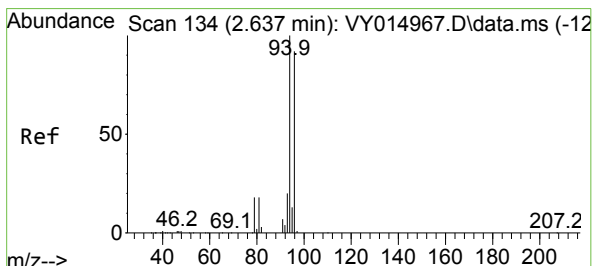
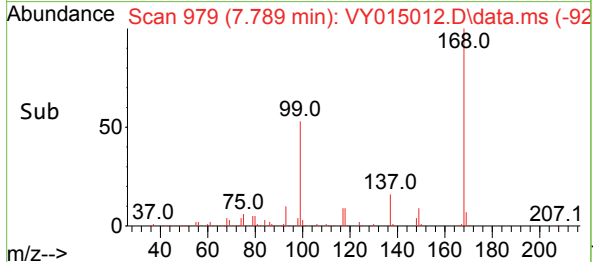
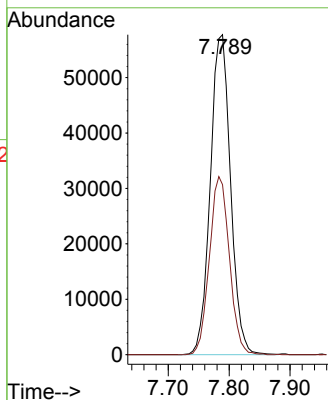
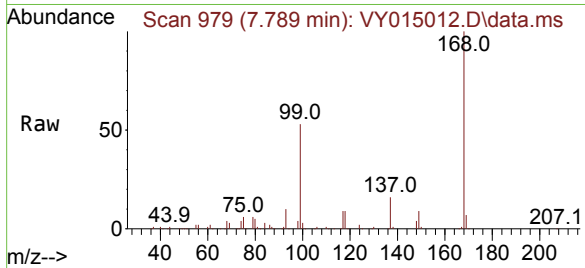




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

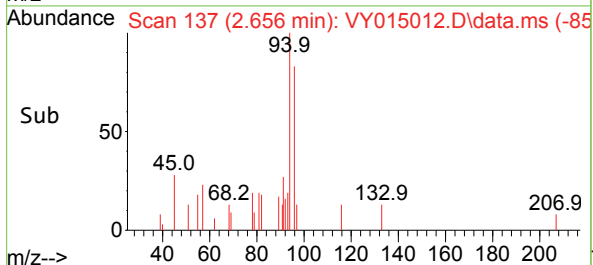
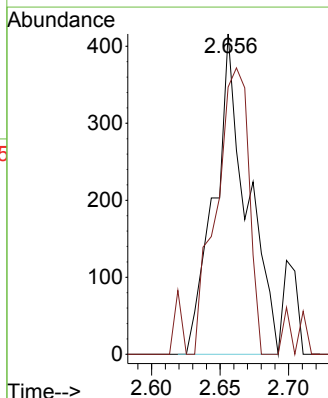
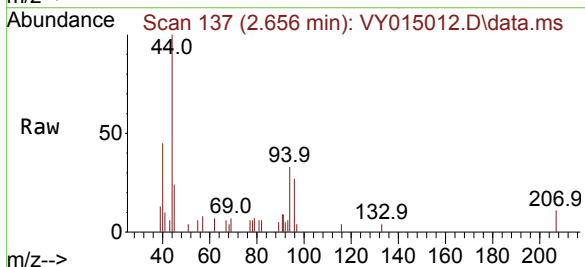
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21A

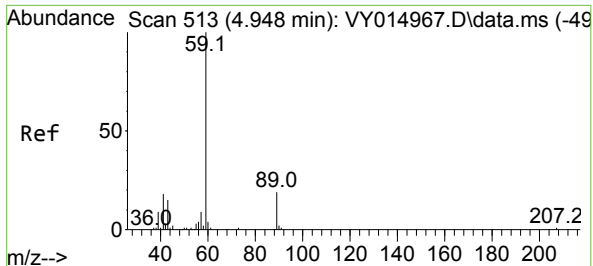
Tgt Ion:168 Resp: 133353
Ion Ratio Lower Upper
168 100
99 53.2 43.4 65.0



#5
Bromomethane
Concen: Below Cal
RT: 2.656 min Scan# 137
Delta R.T. 0.019 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

Tgt Ion: 94 Resp: 688
Ion Ratio Lower Upper
94 100
96 83.4 75.8 113.6

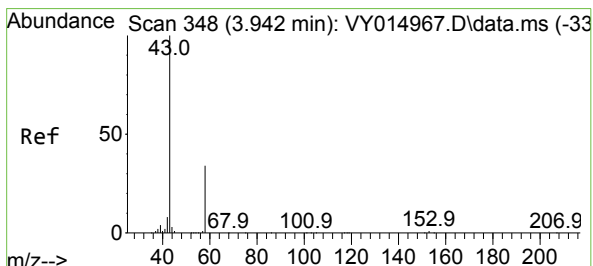
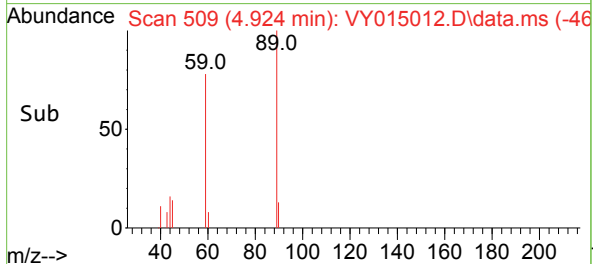
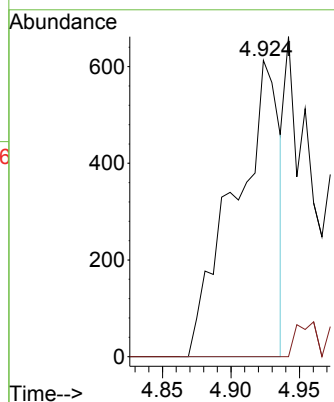
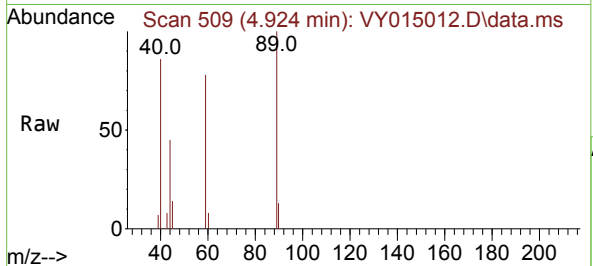




#11
Tert butyl alcohol
Concen: 3.563 ug/l
RT: 4.924 min Scan# 509
Delta R.T. -0.024 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

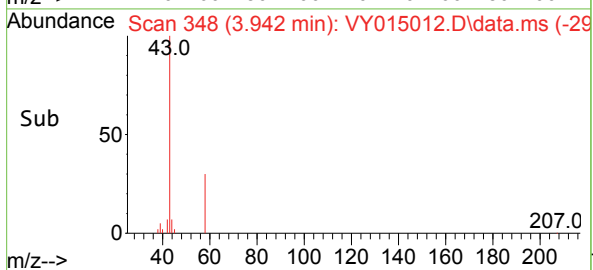
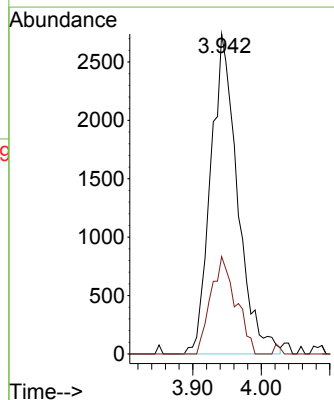
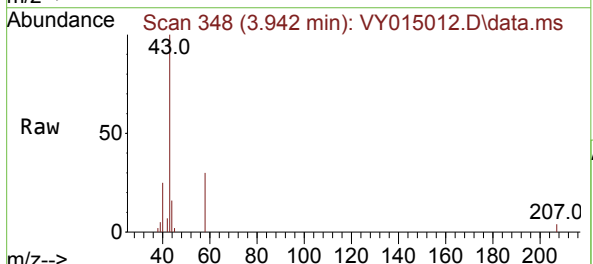
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21A

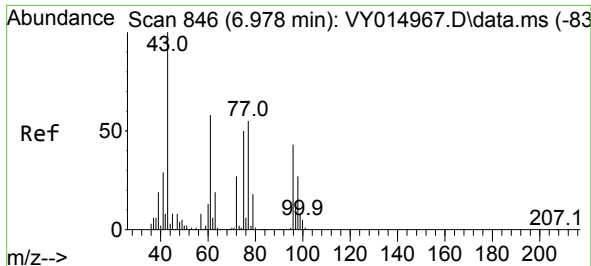
Tgt Ion: 59 Resp: 1390
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#16
Acetone
Concen: 14.788 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

Tgt Ion: 43 Resp: 7453
Ion Ratio Lower Upper
43 100
58 30.4 22.7 34.1

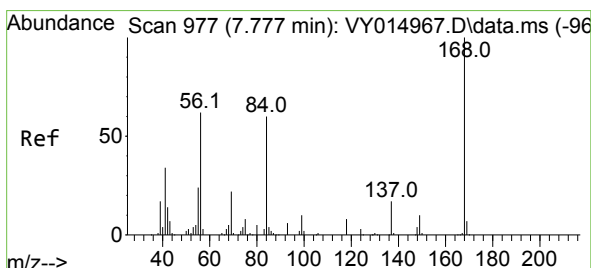
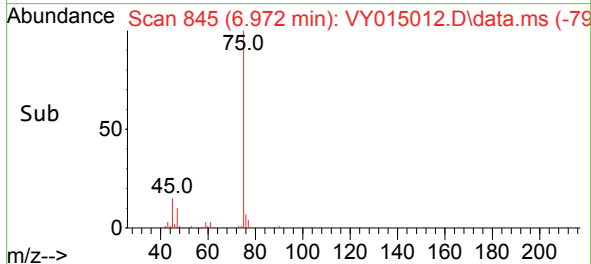
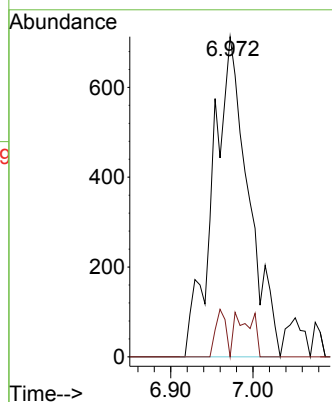
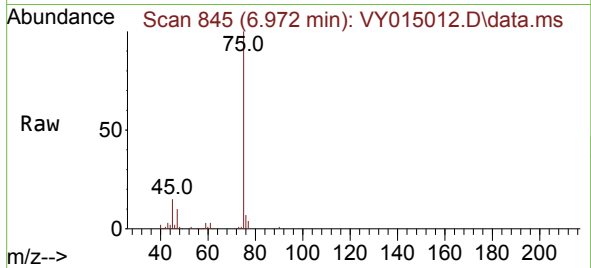




#25
2-Butanone
Concen: 2.969 ug/l
RT: 6.972 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

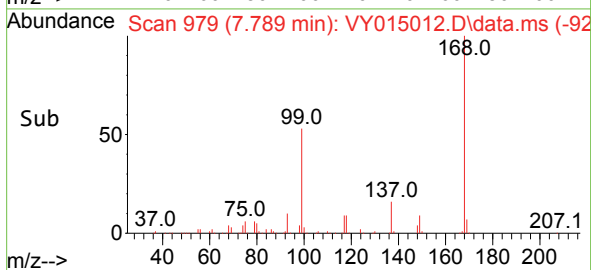
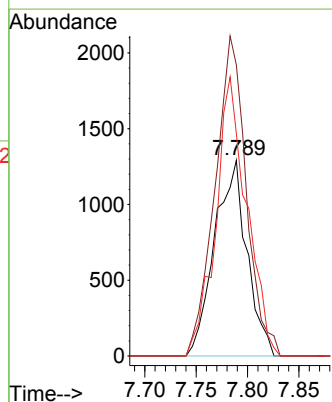
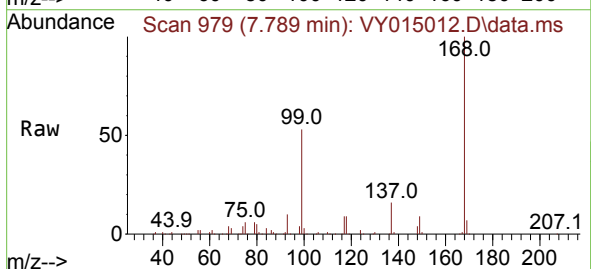
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21A

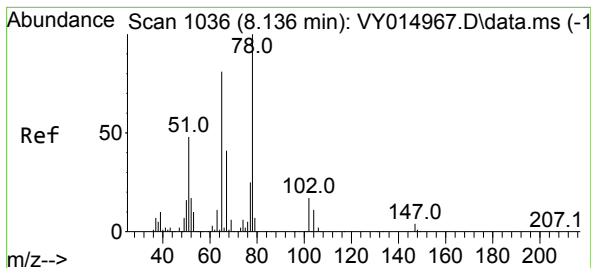
Tgt Ion: 43 Resp: 2143
Ion Ratio Lower Upper
43 100
72 0.0 20.5 30.7#



#31
Cyclohexane
Concen: Below Cal
RT: 7.789 min Scan# 979
Delta R.T. 0.012 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

Tgt Ion: 56 Resp: 2829
Ion Ratio Lower Upper
56 100
69 148.7 27.8 41.6#
84 113.6 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 45.177 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015012.D

Acq: 09 Aug 2023 17:53

Instrument :

MSVOA_Y

ClientSampleId :

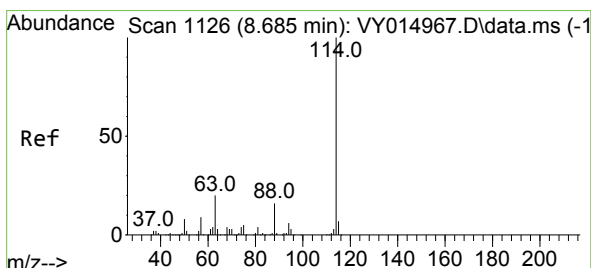
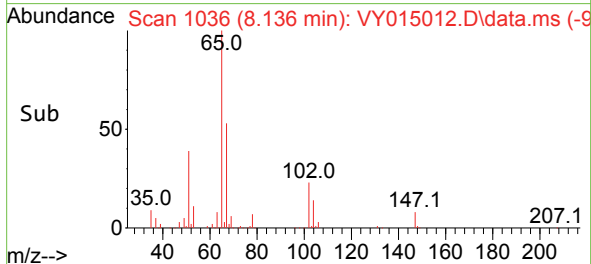
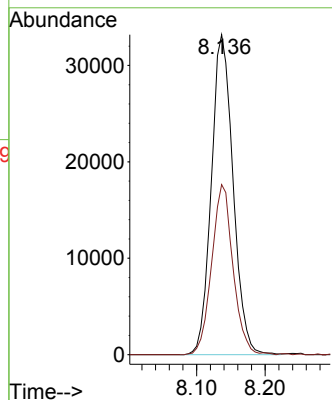
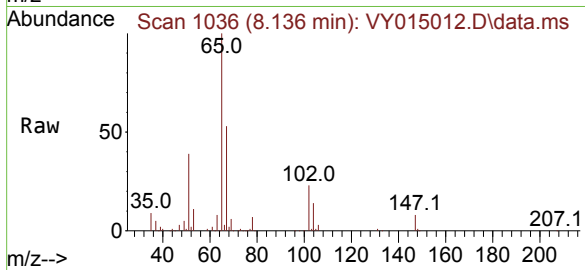
B-PP21A

Tgt Ion: 65 Resp: 73018

Ion Ratio Lower Upper

65 100

67 52.2 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: VY015012.D

Acq: 09 Aug 2023 17:53

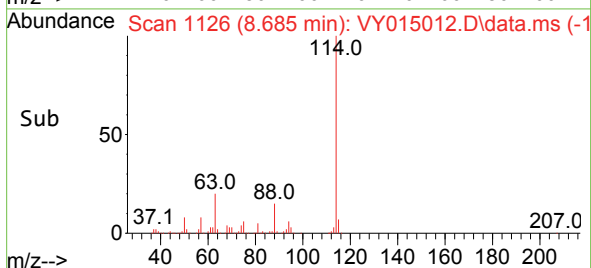
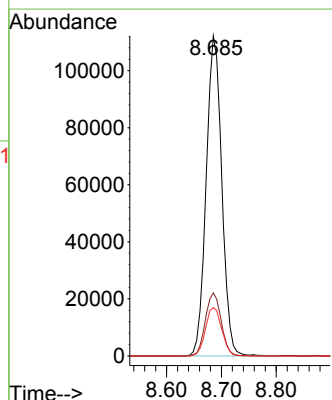
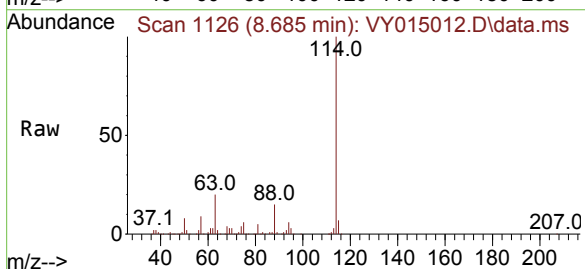
Tgt Ion: 114 Resp: 221332

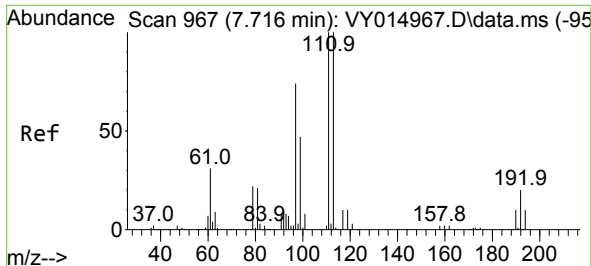
Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.4

88 15.1 0.0 30.6

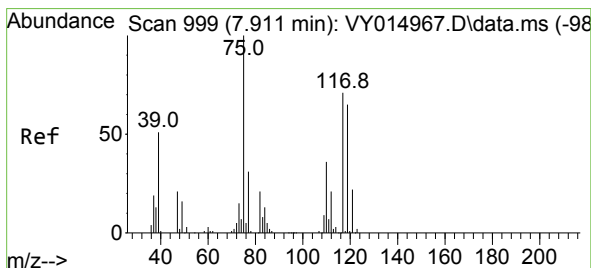
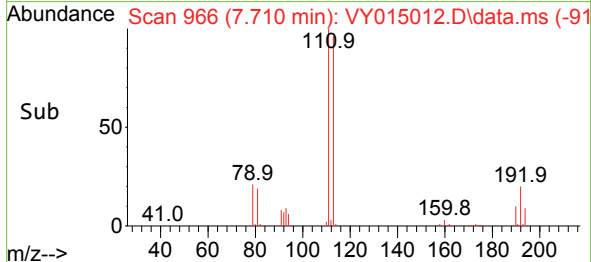
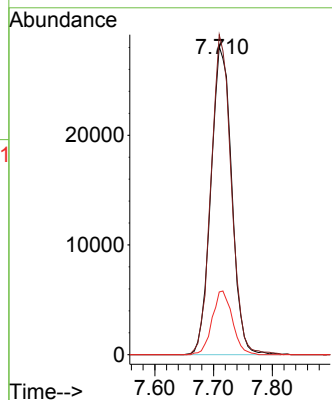
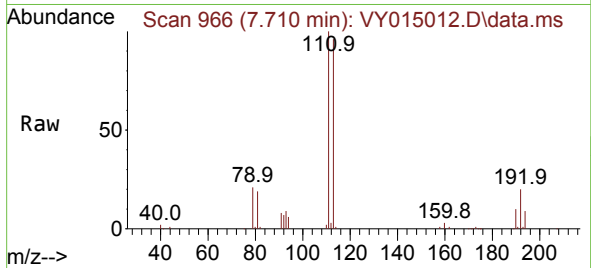




#35
Dibromofluoromethane
Concen: 48.692 ug/l
RT: 7.710 min Scan# 910
Delta R.T. -0.006 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

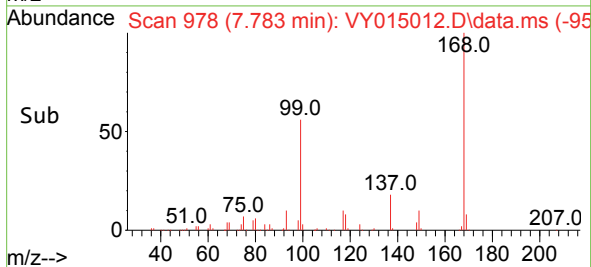
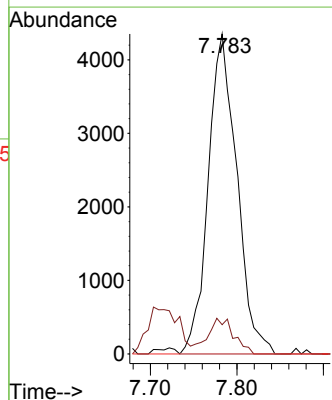
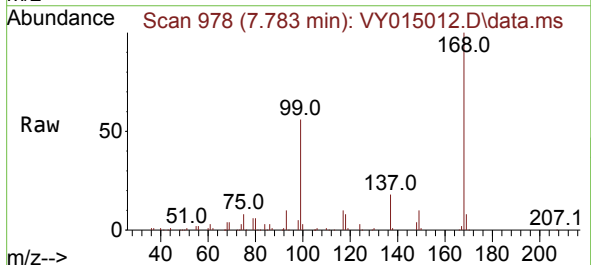
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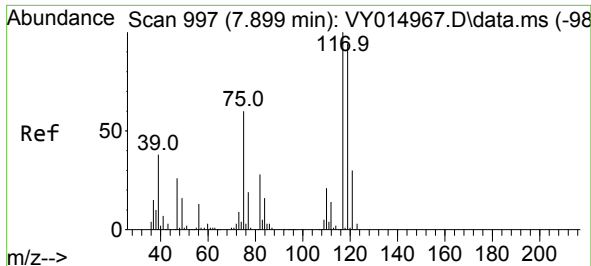
Tgt Ion:113 Resp: 68918
Ion Ratio Lower Upper
113 100
111 101.2 81.3 121.9
192 20.1 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.681 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

Tgt Ion: 75 Resp: 9983
Ion Ratio Lower Upper
75 100
110 9.8 17.8 53.5#
77 0.0 24.4 36.6#

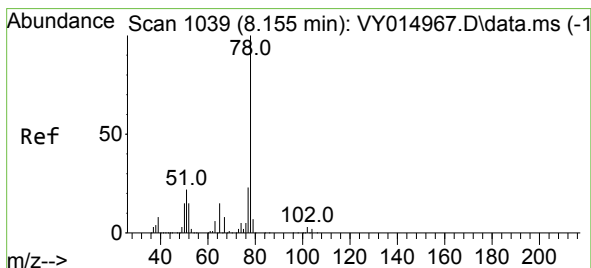
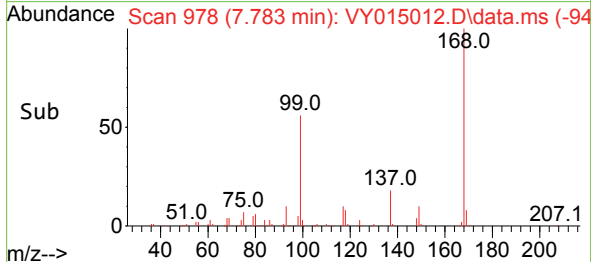
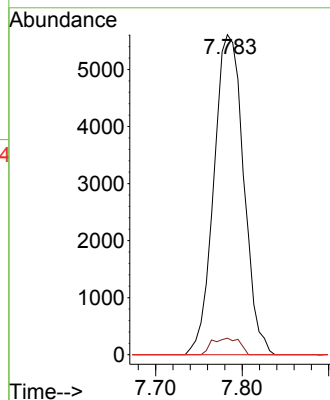
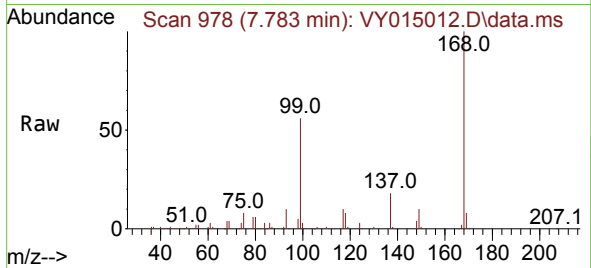




#38
Carbon Tetrachloride
Concen: 6.782 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

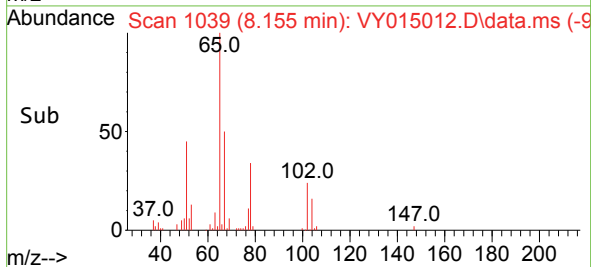
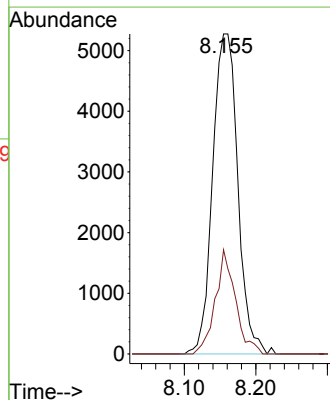
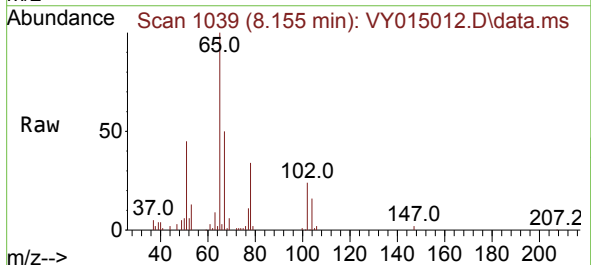
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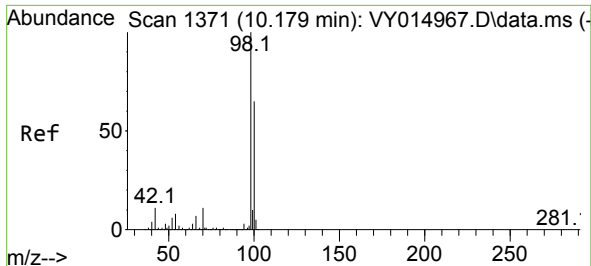
Tgt Ion:117 Resp: 13397
Ion Ratio Lower Upper
117 100
119 5.2 76.4 114.6#
121 0.0 25.8 38.6#



#40
Benzene
Concen: 2.489 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

Tgt Ion: 78 Resp: 12879
Ion Ratio Lower Upper
78 100
77 32.6 19.0 28.6#

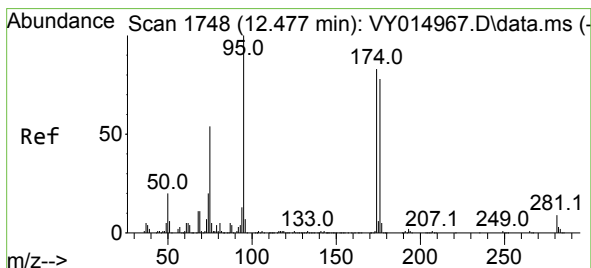
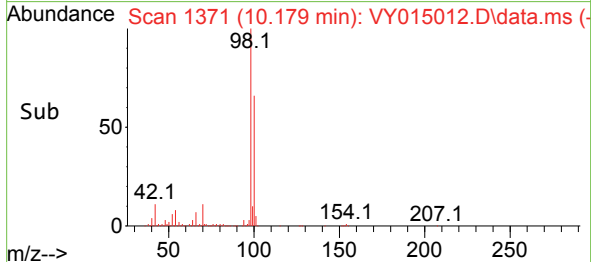
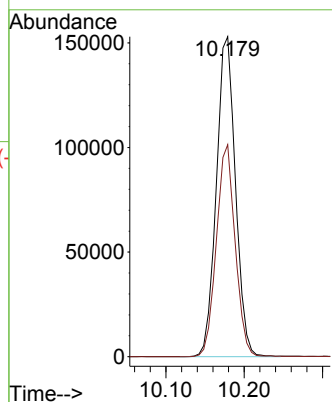
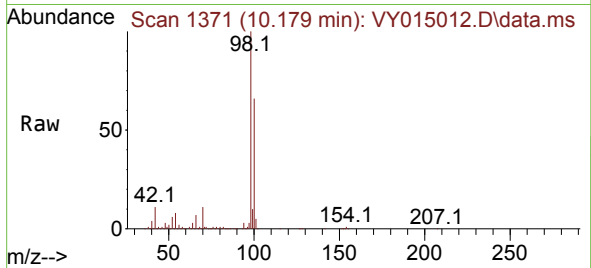




#50
Toluene-d8
Concen: 48.114 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

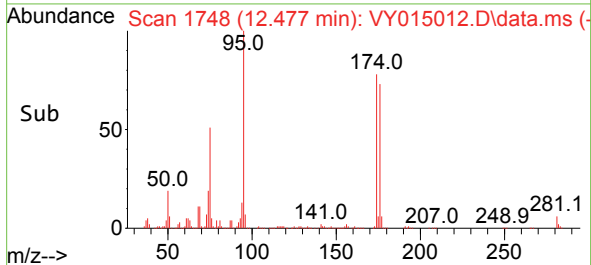
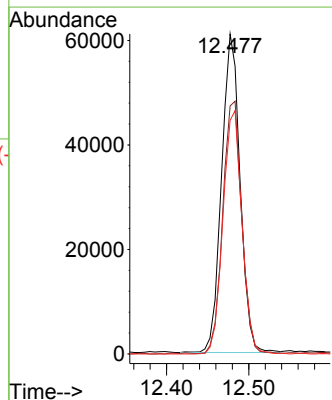
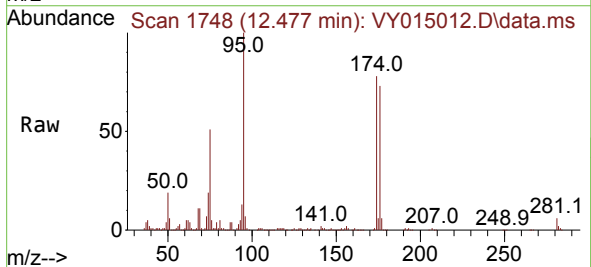
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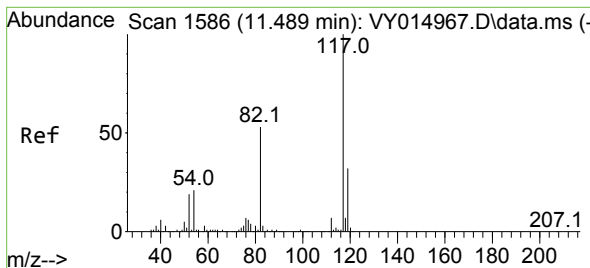
Tgt Ion: 98 Resp: 259204
Ion Ratio Lower Upper
98 100
100 65.3 50.1 75.1



#62
4-Bromofluorobenzene
Concen: 50.009 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

Tgt Ion: 95 Resp: 95484
Ion Ratio Lower Upper
95 100
174 81.0 0.0 178.2
176 78.3 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY015012.D

Acq: 09 Aug 2023 17:53

Instrument :

MSVOA_Y

ClientSampleId :

B-PP21A

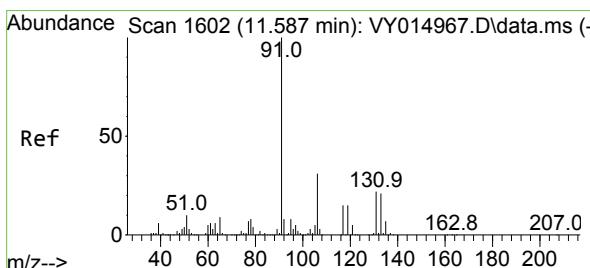
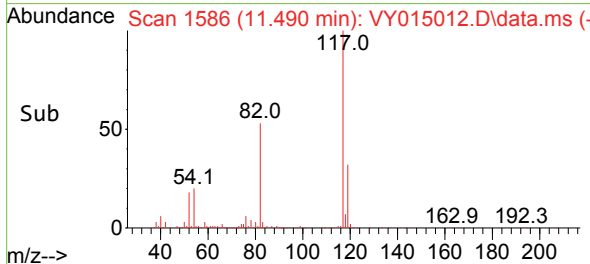
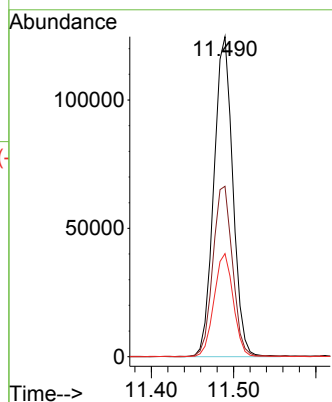
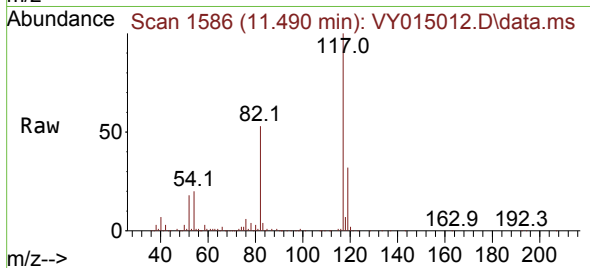
Tgt Ion:117 Resp: 199853

Ion Ratio Lower Upper

117 100

82 53.1 43.4 65.0

119 32.2 26.3 39.5



#67

Ethyl Benzene

Concen: 24.723 ug/l

RT: 11.587 min Scan# 1602

Delta R.T. 0.000 min

Lab File: VY015012.D

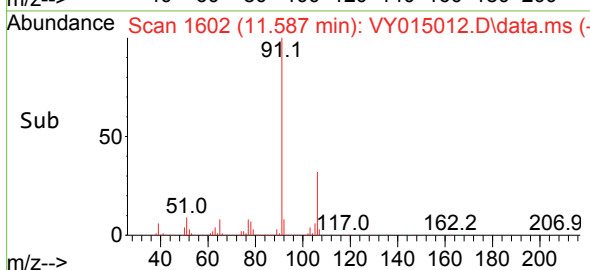
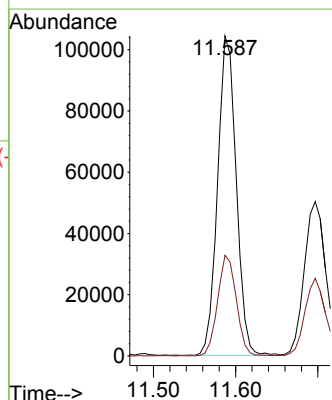
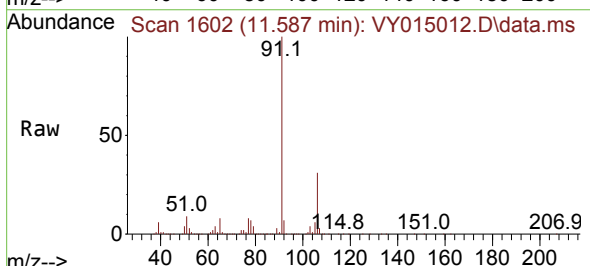
Acq: 09 Aug 2023 17:53

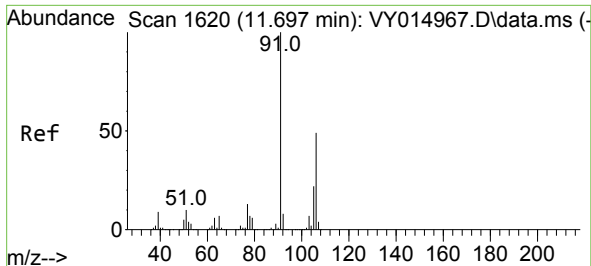
Tgt Ion: 91 Resp: 164540

Ion Ratio Lower Upper

91 100

106 31.4 24.6 36.8

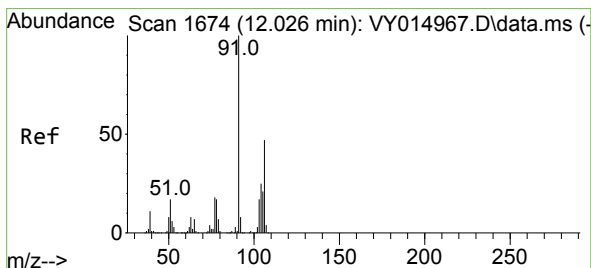
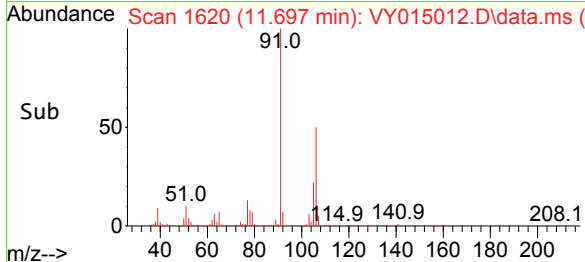
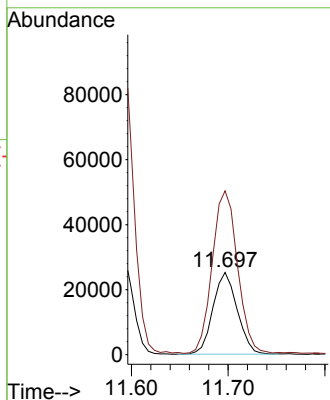
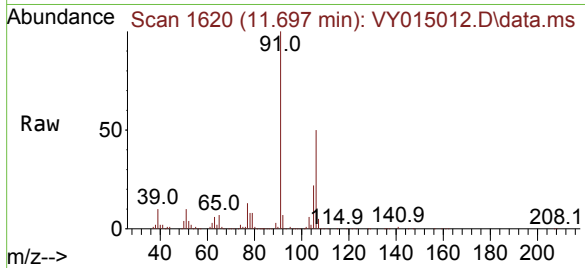




#68
m/p-Xylenes
Concen: 17.186 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

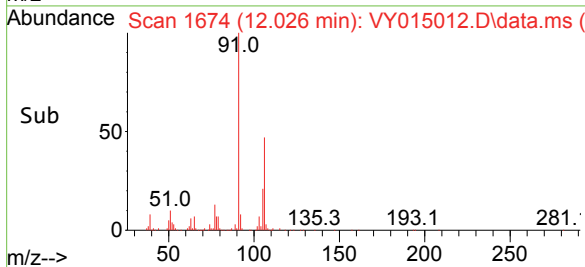
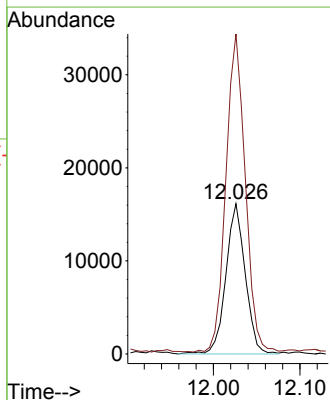
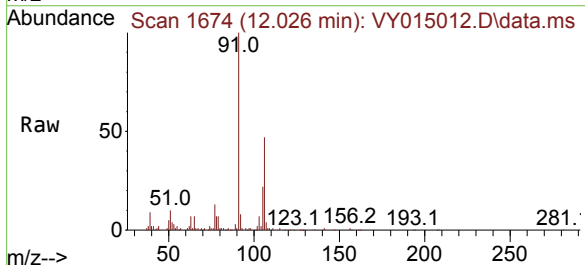
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21A

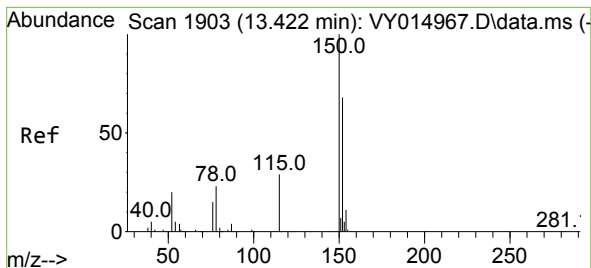
Tgt Ion:106 Resp: 43754
Ion Ratio Lower Upper
106 100
91 207.1 166.1 249.1



#69
o-Xylene
Concen: 10.075 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

Tgt Ion:106 Resp: 25099
Ion Ratio Lower Upper
106 100
91 210.3 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY015012.D

Acq: 09 Aug 2023 17:53

Instrument :

MSVOA_Y

ClientSampleId :

B-PP21A

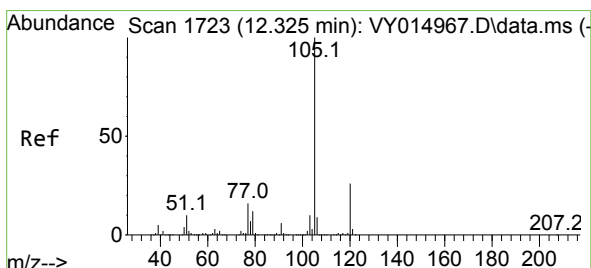
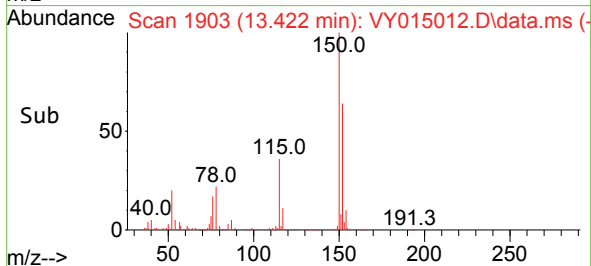
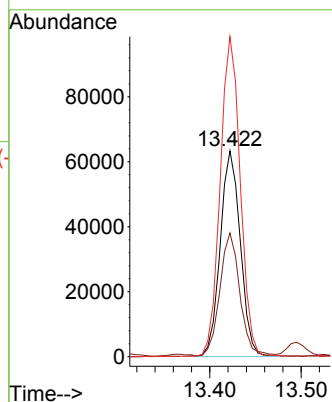
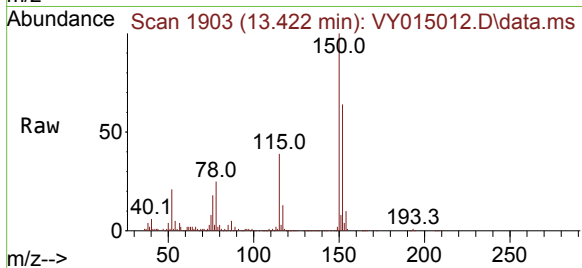
Tgt Ion:152 Resp: 96608

Ion Ratio Lower Upper

152 100

115 59.5 28.8 86.5

150 156.4 0.0 348.8



#73

Isopropylbenzene

Concen: 2.893 ug/l

RT: 12.325 min Scan# 1723

Delta R.T. 0.000 min

Lab File: VY015012.D

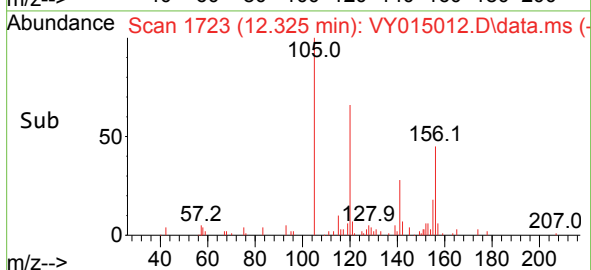
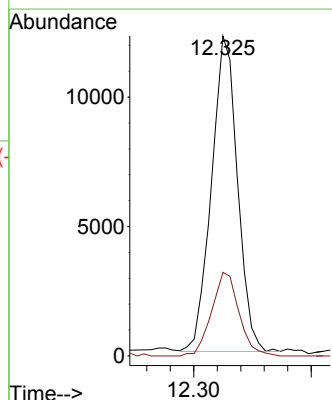
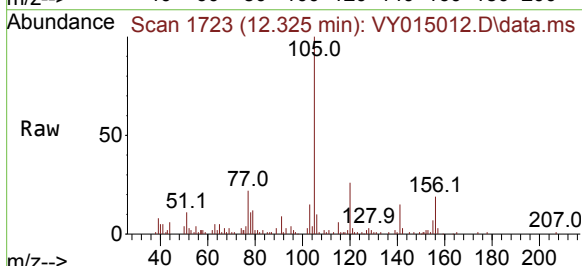
Acq: 09 Aug 2023 17:53

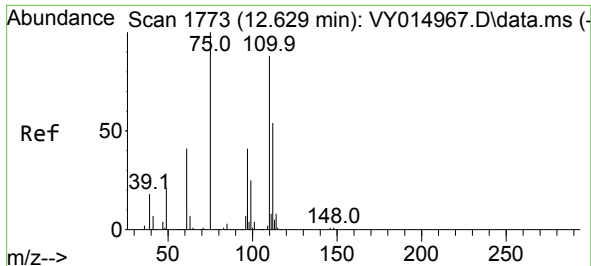
Tgt Ion:105 Resp: 18788

Ion Ratio Lower Upper

105 100

120 27.9 13.3 39.9

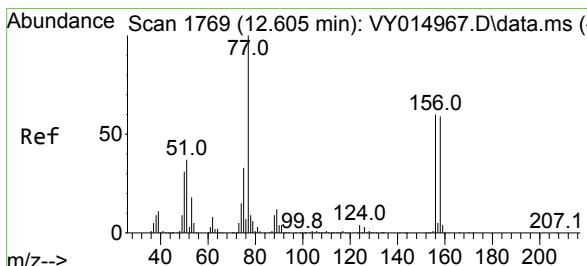
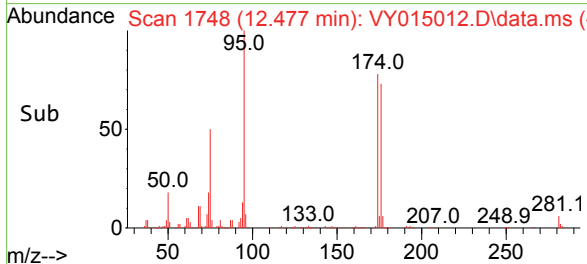
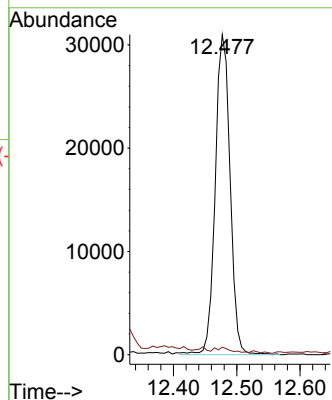
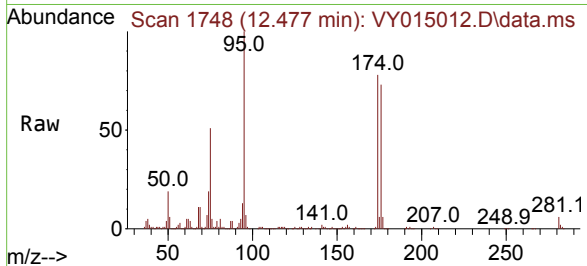




#76
1,2,3-Trichloropropane
Concen: 43.577 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.152 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

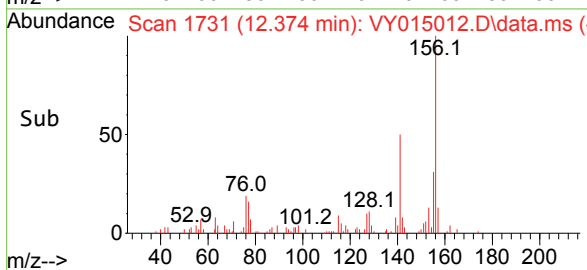
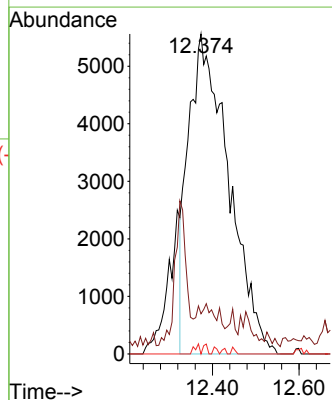
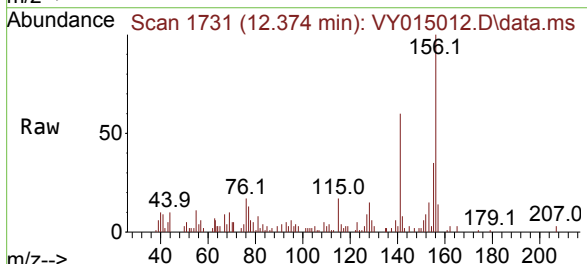
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21A

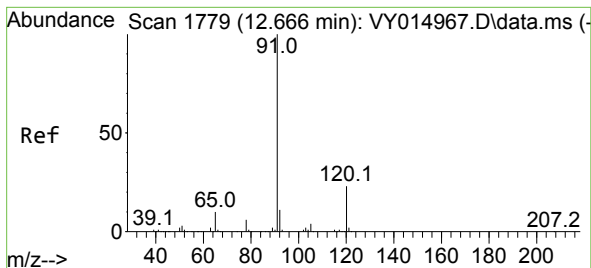
Tgt Ion: 75 Resp: 50444
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#77
Bromobenzene
Concen: 22.837 ug/l
RT: 12.374 min Scan# 1731
Delta R.T. -0.232 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

Tgt Ion: 156 Resp: 35974
Ion Ratio Lower Upper
156 100
77 0.0 92.8 278.6#
158 0.4 48.4 145.3#

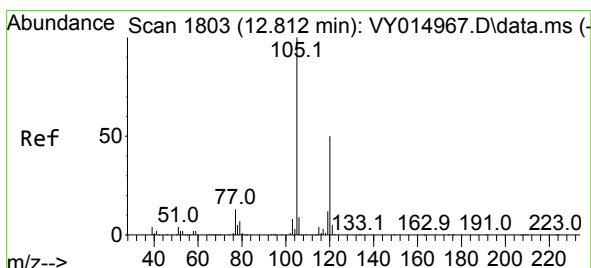
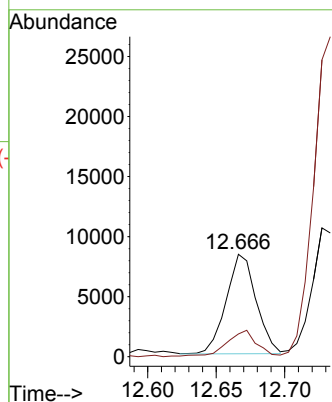
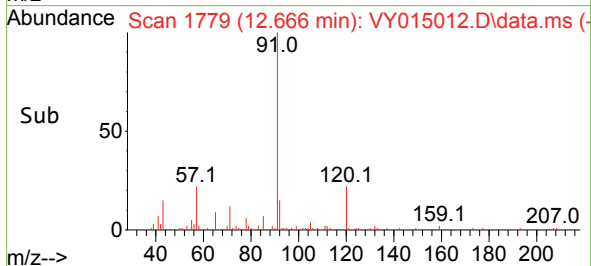
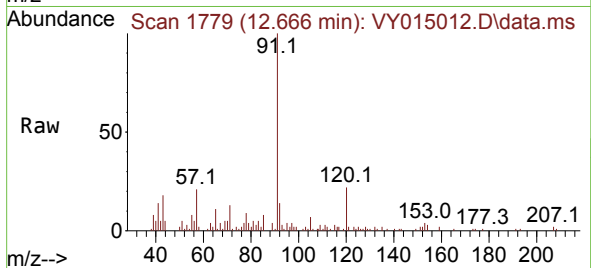




#78
n-propylbenzene
Concen: 1.628 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

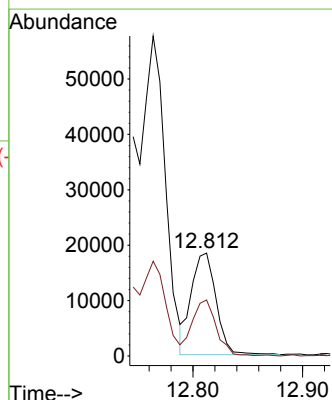
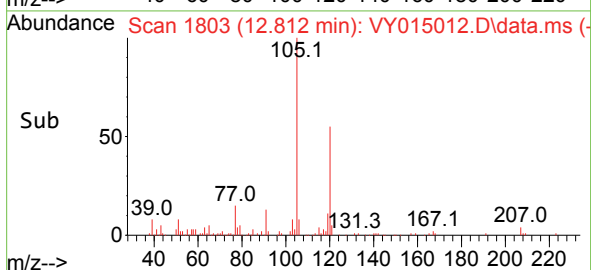
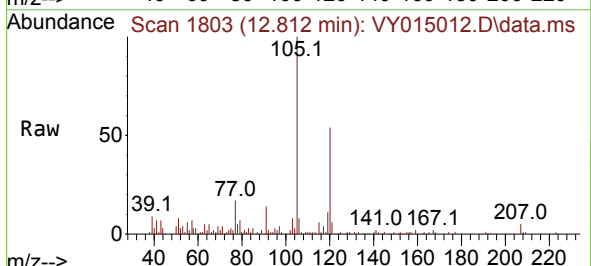
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21A

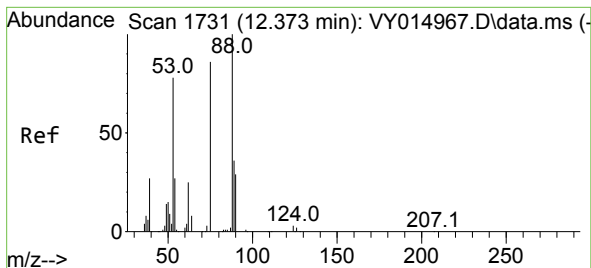
Tgt Ion: 91 Resp: 12649
Ion Ratio Lower Upper
91 100
120 26.9 11.5 34.4



#80
1,3,5-Trimethylbenzene
Concen: 5.392 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

Tgt Ion: 105 Resp: 28857
Ion Ratio Lower Upper
105 100
120 52.9 23.9 71.7

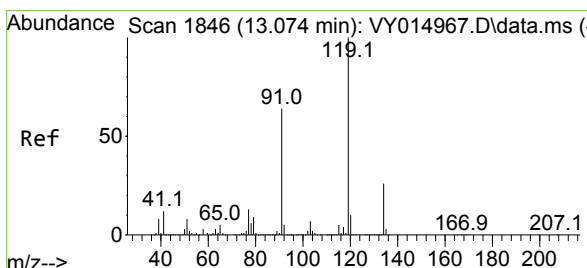
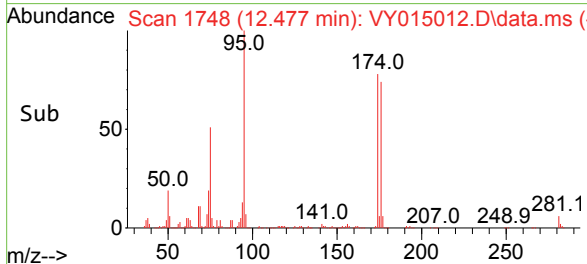
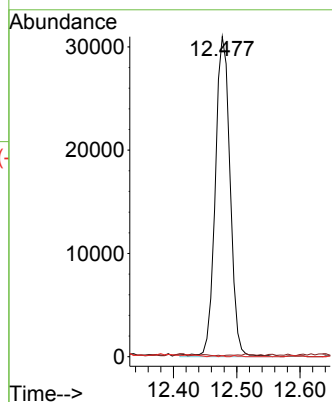
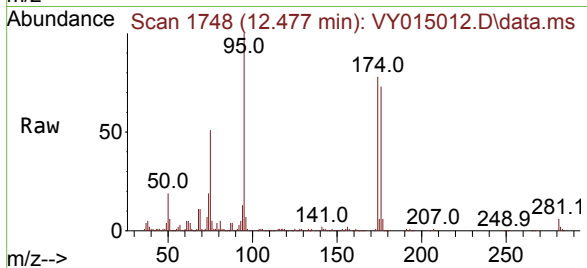




#81
 trans-1,4-Dichloro-2-butene
 Concen: 96.001 ug/l
 RT: 12.477 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY015012.D
 Acq: 09 Aug 2023 17:53

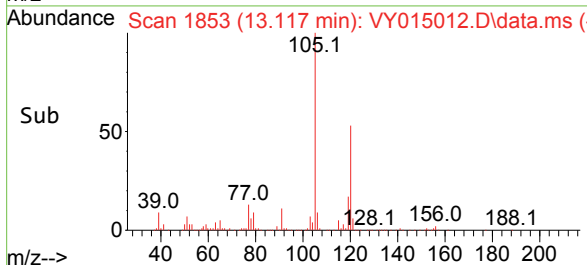
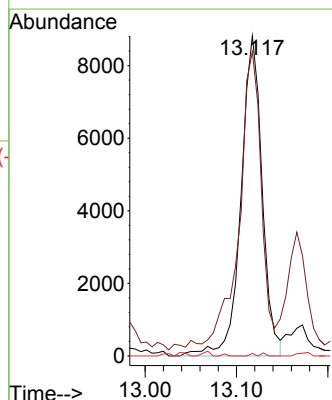
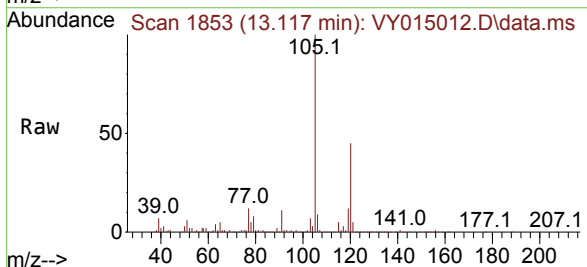
Instrument :
 MSVOA_Y
 ClientSampleId :
 B-PP21A

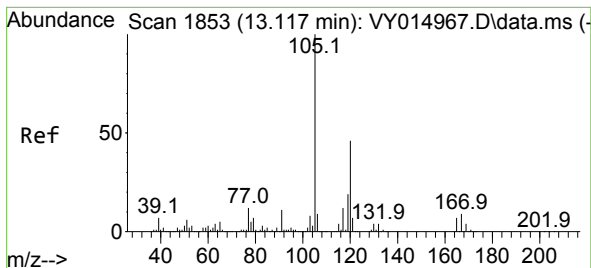
Tgt Ion: 75 Resp: 50444
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.8 116.8#
 89 0.1 37.4 56.0#



#83
 tert-Butylbenzene
 Concen: 2.900 ug/l
 RT: 13.117 min Scan# 1853
 Delta R.T. 0.043 min
 Lab File: VY015012.D
 Acq: 09 Aug 2023 17:53

Tgt Ion: 119 Resp: 14198
 Ion Ratio Lower Upper
 119 100
 91 100.0 32.9 98.6#
 134 0.0 13.0 38.9#





#84

1,2,4-Trimethylbenzene

Concen: 20.453 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY015012.D

Acq: 09 Aug 2023 17:53

Instrument :

MSVOA_Y

ClientSampleId :

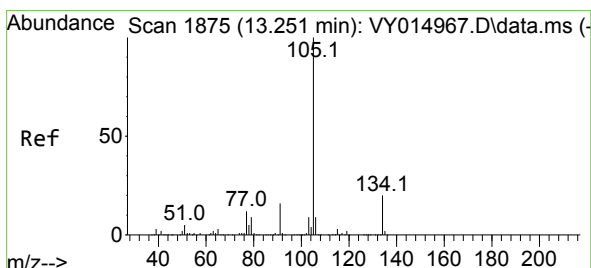
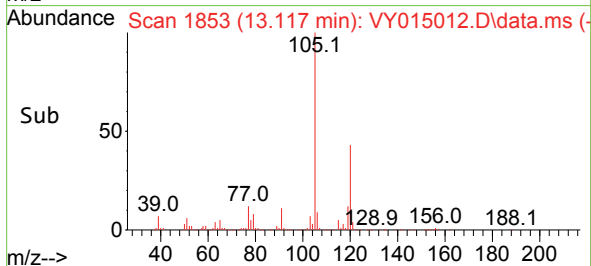
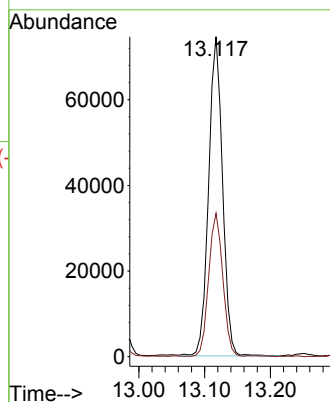
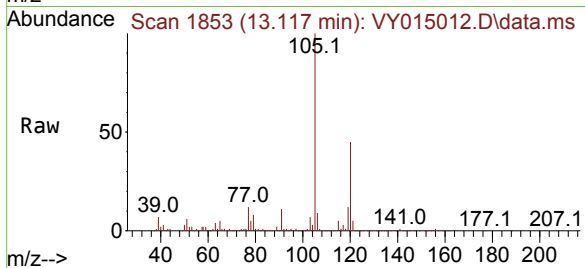
B-PP21A

Tgt Ion:105 Resp: 109663

Ion Ratio Lower Upper

105 100

120 45.4 22.2 66.6



#85

sec-Butylbenzene

Concen: 15.262 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.134 min

Lab File: VY015012.D

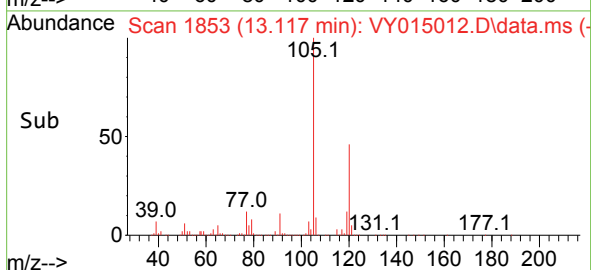
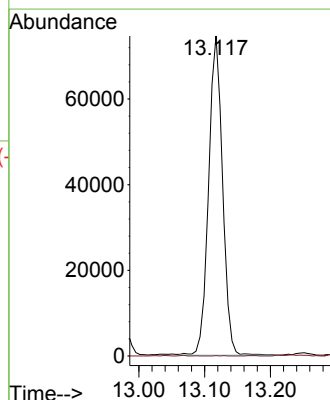
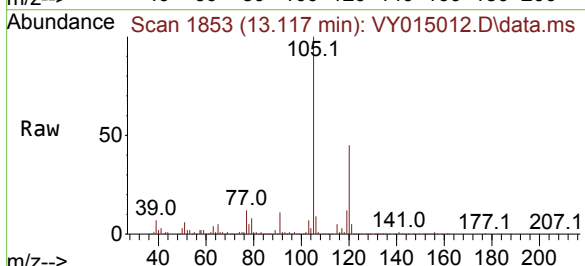
Acq: 09 Aug 2023 17:53

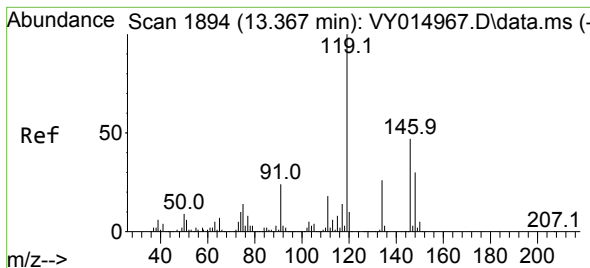
Tgt Ion:105 Resp: 109663

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#





#86

p-Isopropyltoluene

Concen: 1.998 ug/l

RT: 13.312 min Scan# 11881

Delta R.T. -0.055 min

Lab File: VY015012.D

Acq: 09 Aug 2023 17:53

Instrument :

MSVOA_Y

ClientSampleId :

B-PP21A

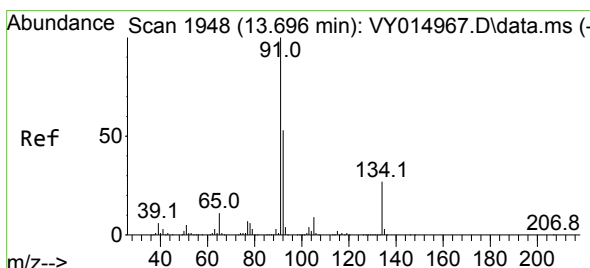
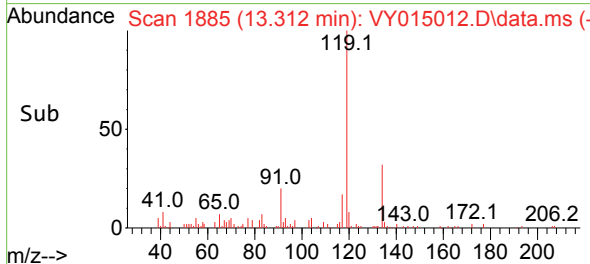
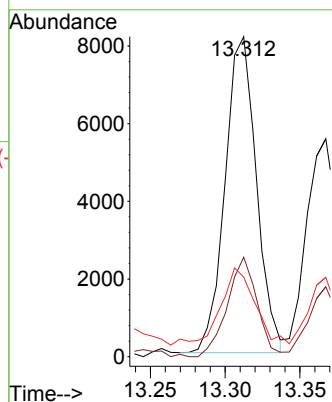
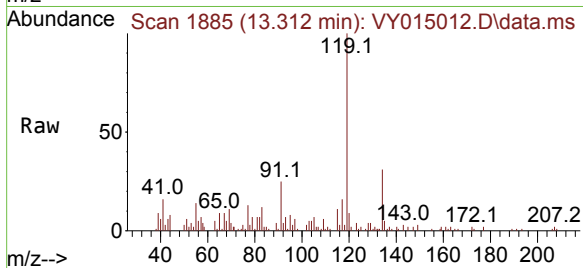
Tgt Ion:119 Resp: 11881

Ion Ratio Lower Upper

119 100

134 29.7 13.3 39.8

91 26.9 12.4 37.4



#89

n-Butylbenzene

Concen: 18.146 ug/l

RT: 13.623 min Scan# 1936

Delta R.T. -0.073 min

Lab File: VY015012.D

Acq: 09 Aug 2023 17:53

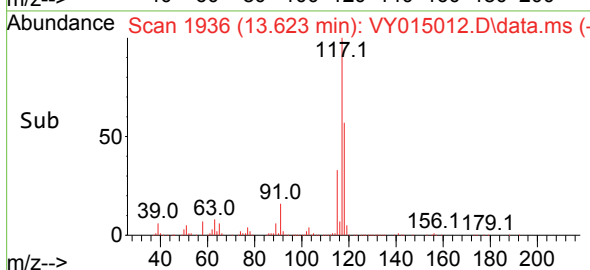
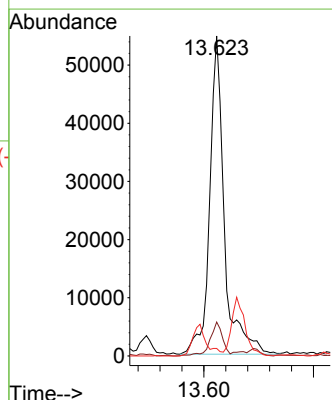
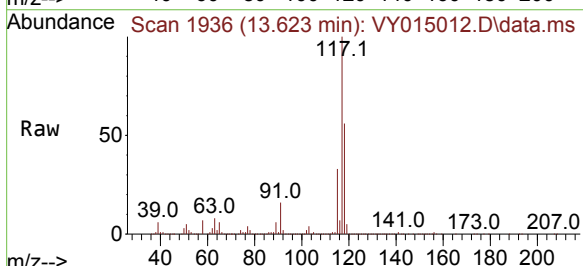
Tgt Ion: 91 Resp: 101404

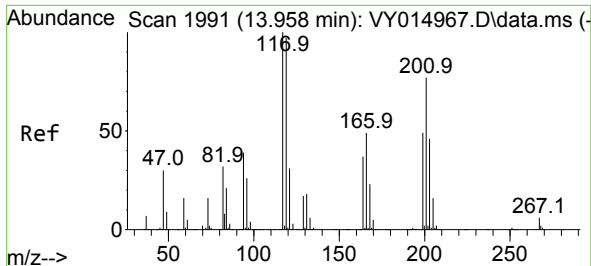
Ion Ratio Lower Upper

91 100

92 9.3 25.4 76.0#

134 0.0 12.6 37.6#

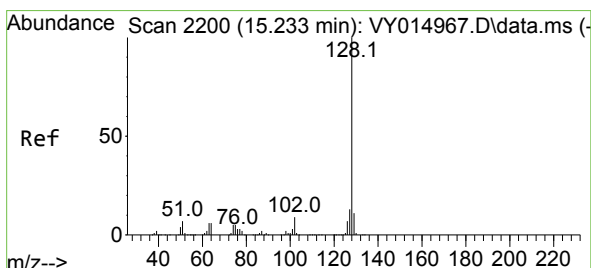
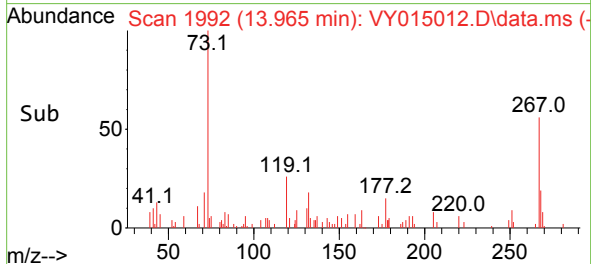
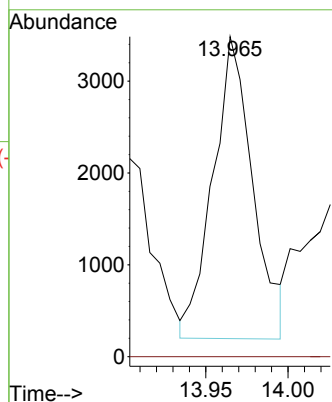
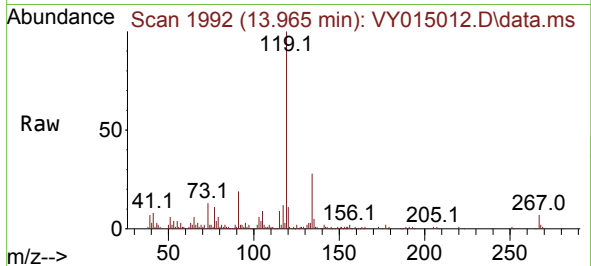




#90
Hexachloroethane
Concen: 4.793 ug/l
RT: 13.965 min Scan# 1991
Delta R.T. 0.006 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

Instrument :
MSVOA_Y
ClientSampleId :
B-PP21A

Tgt Ion:117 Resp: 5536
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



#95
Naphthalene
Concen: 411.195 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. 0.000 min
Lab File: VY015012.D
Acq: 09 Aug 2023 17:53

Tgt Ion:128 Resp: 1761814
Ion Ratio Lower Upper
128 100
127 12.8 10.8 16.2
129 10.9 8.6 13.0

