

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080923\
 Data File : VY015013.D
 Acq On : 09 Aug 2023 18:16
 Operator : SY/MD
 Sample : 03943-02
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-PP21B

Quant Time: Aug 10 01:49:34 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)

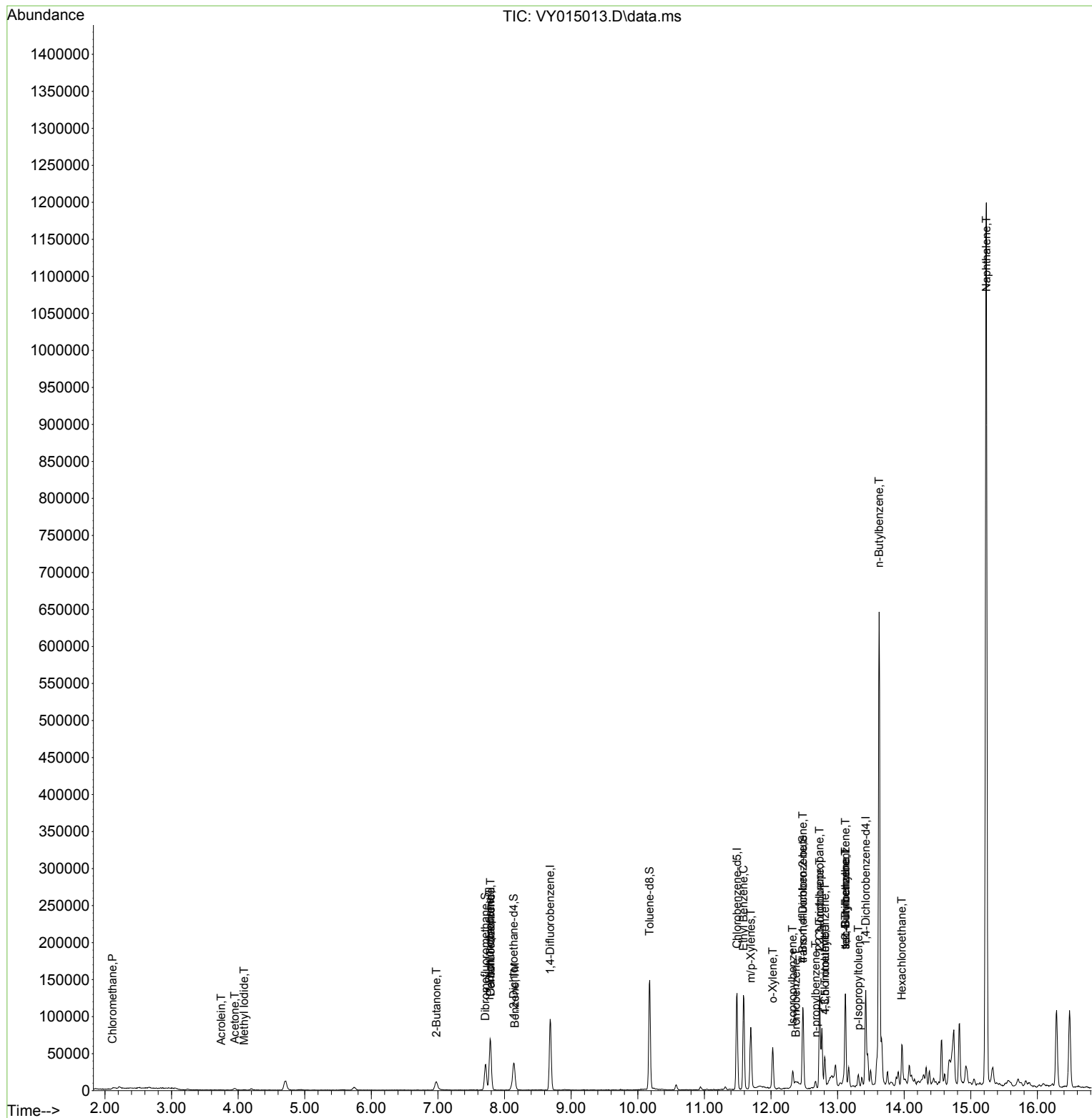
Internal Standards						
1) Pentafluorobenzene	7.789	168	53235	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	83783	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	72064	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	32343	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	25467	39.470	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	78.940%		
35) Dibromofluoromethane	7.710	113	24150	45.075	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	90.140%		
50) Toluene-d8	10.179	98	98165	48.137	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.280%		
62) 4-Bromofluorobenzene	12.477	95	32208	44.563	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	89.120%		
Target Compounds						Qvalue
3) Chloromethane	2.113	50	478	1.141	ug/l #	83
5) Bromomethane	2.656	94	783	Below Cal		99
10) Methyl Iodide	4.088	142	676	1.354	ug/l #	56
13) Acrolein	3.747	56	130	2.454	ug/l #	14
16) Acetone	3.948	43	4222	20.984	ug/l	92
20) Methylene Chloride	4.716	84	9502	Below Cal	#	83
25) 2-Butanone	6.978	43	1243	4.313	ug/l	92
31) Cyclohexane	7.783	56	1177	Below Cal	#	47
36) 1,1-Dichloropropene	7.777	75	4208	6.326	ug/l #	52
38) Carbon Tetrachloride	7.789	117	5206	6.962	ug/l #	17
40) Benzene	8.155	78	7063	3.606	ug/l #	90
67) Ethyl Benzene	11.587	91	89282	37.204	ug/l	100
68) m/p-Xylenes	11.697	106	25259	27.514	ug/l	96
69) o-Xylene	12.026	106	14573	16.223	ug/l	97
73) Isopropylbenzene	12.325	105	11858	5.454	ug/l	99
76) 1,2,3-Trichloropropane	12.727	75	919	2.371	ug/l #	100
77) Bromobenzene	12.374	156	3286	6.231	ug/l #	1
78) n-propylbenzene	12.672	91	7663	2.947	ug/l	91
79) 2-Chlorotoluene	12.733	91	9902	6.681	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.813	105	18592	10.377	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	16783	95.404	ug/l #	11
82) 4-Chlorotoluene	12.813	91	1944	1.269	ug/l #	40
83) tert-Butylbenzene	13.117	119	8399	5.124	ug/l #	43
84) 1,2,4-Trimethylbenzene	13.117	105	65686	36.593	ug/l	98
85) sec-Butylbenzene	13.117	105	65686	27.307	ug/l #	56
86) p-Isopropyltoluene	13.312	119	7723	3.879	ug/l	96
89) n-Butylbenzene	13.623	91	61756	33.010	ug/l #	44
90) Hexachloroethane	13.965	117	3762	9.729	ug/l #	8
95) Naphthalene	15.233	128	977288	681.308	ug/l	99

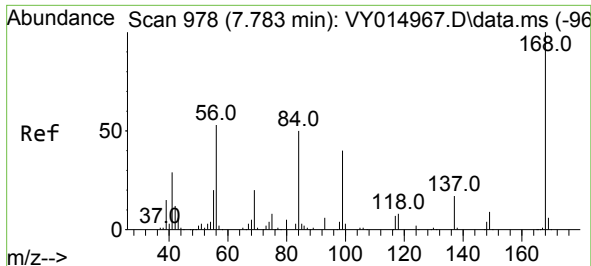
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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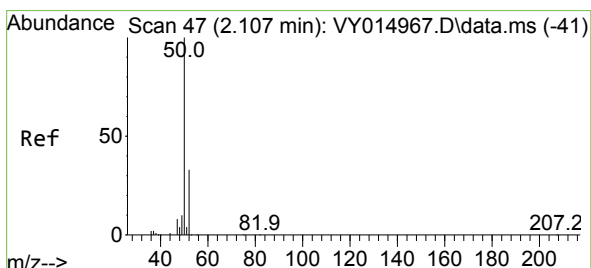
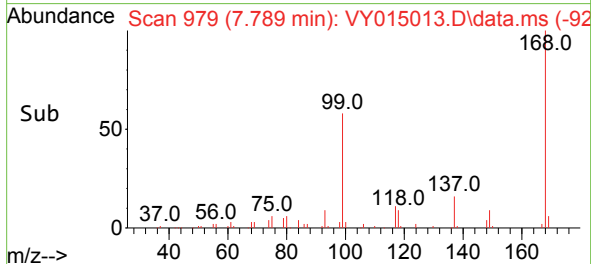
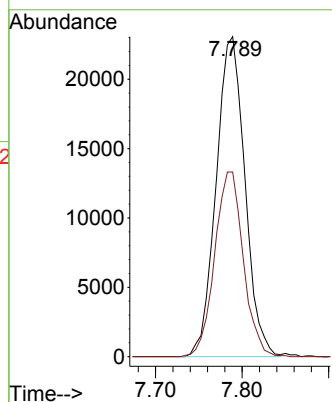
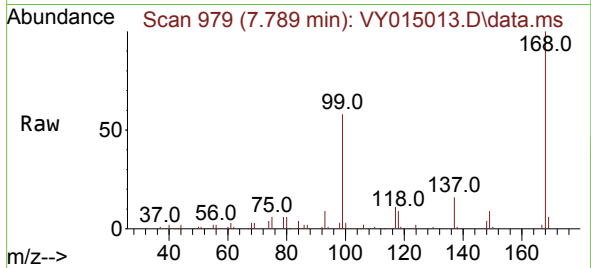




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

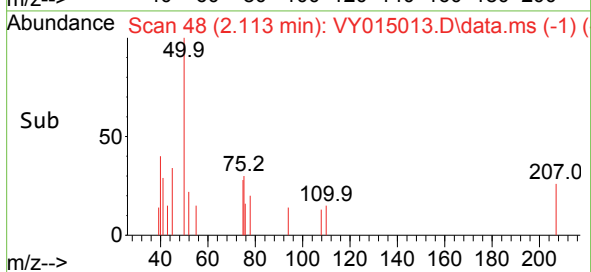
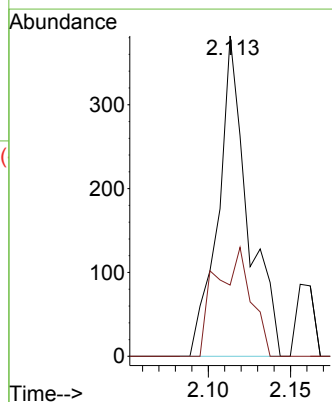
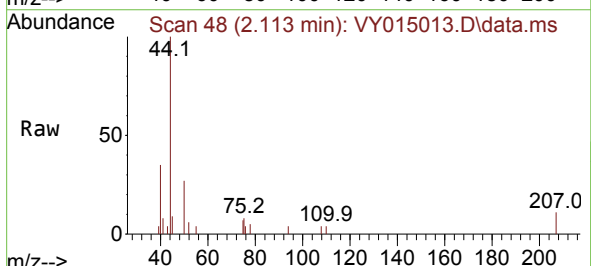
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21B

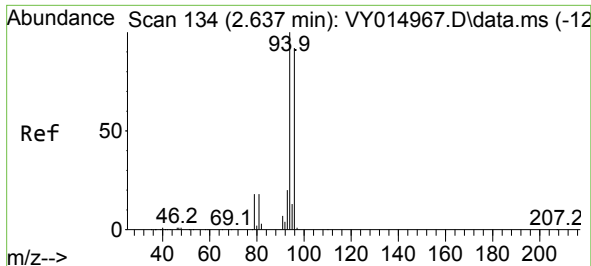
Tgt Ion:168 Resp: 53235
Ion Ratio Lower Upper
168 100
99 57.7 43.4 65.0



#3
Chloromethane
Concen: 1.141 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

Tgt Ion: 50 Resp: 478
Ion Ratio Lower Upper
50 100
52 22.3 25.4 38.2#

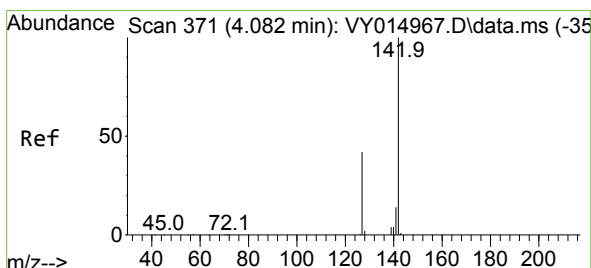
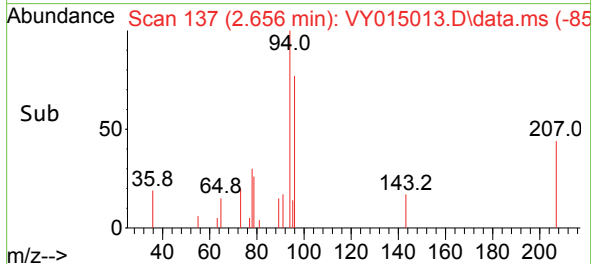
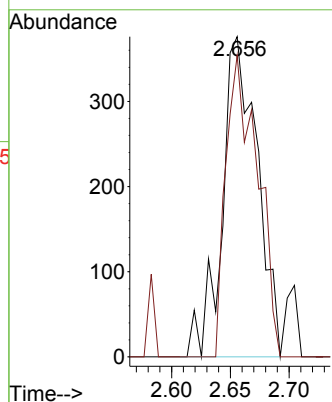
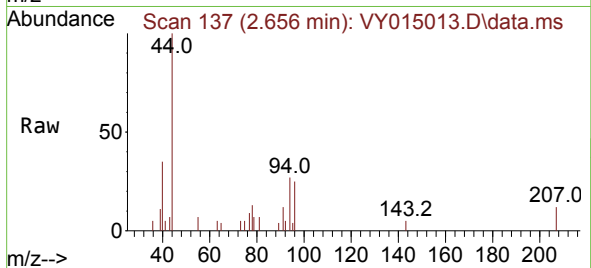




#5
Bromomethane
Concen: Below Cal
RT: 2.656 min Scan# 11
Delta R.T. 0.019 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

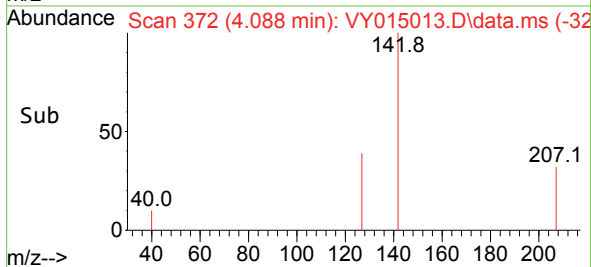
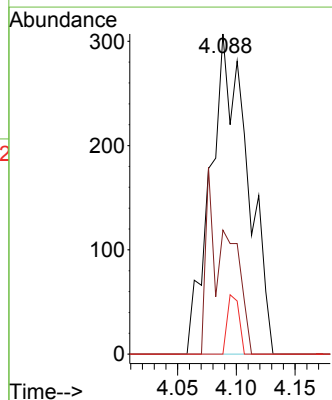
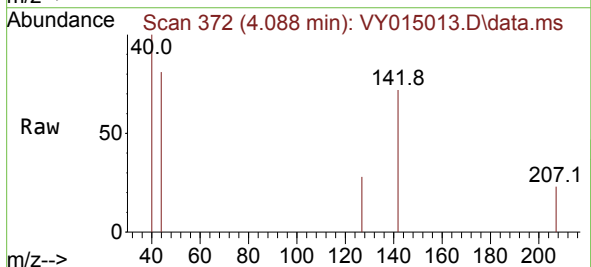
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21B

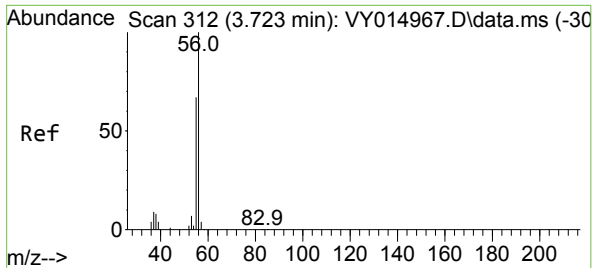
Tgt Ion: 94 Resp: 783
Ion Ratio Lower Upper
94 100
96 94.1 75.8 113.6



#10
Methyl Iodide
Concen: 1.354 ug/l
RT: 4.088 min Scan# 372
Delta R.T. 0.006 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

Tgt Ion:142 Resp: 676
Ion Ratio Lower Upper
142 100
127 12.7 37.6 56.4#
141 5.9 11.8 17.8#

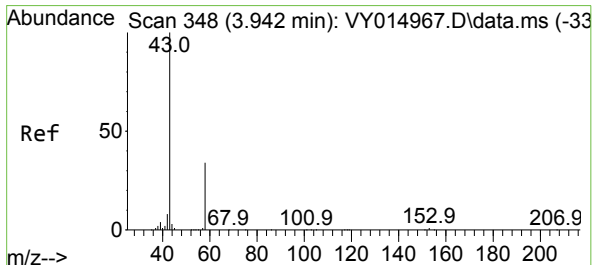
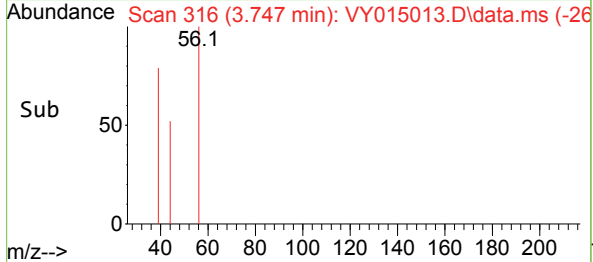
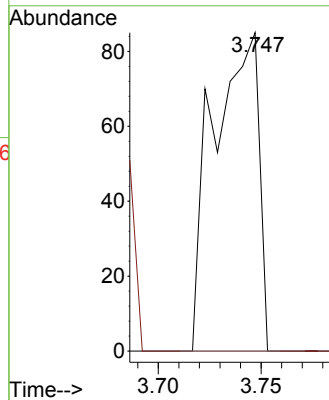
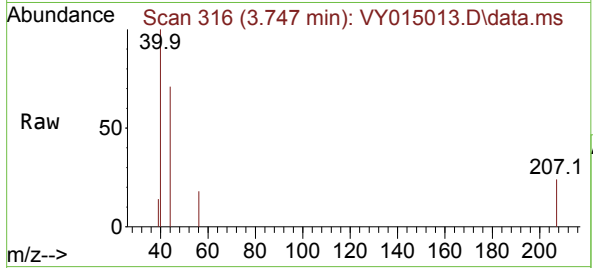




#13
Acrolein
Concen: 2.454 ug/l
RT: 3.747 min Scan# 312
Delta R.T. 0.025 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

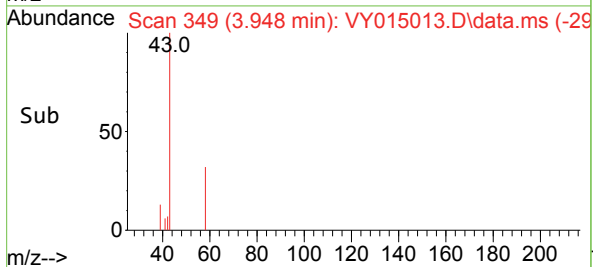
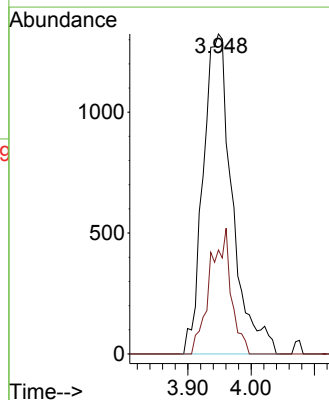
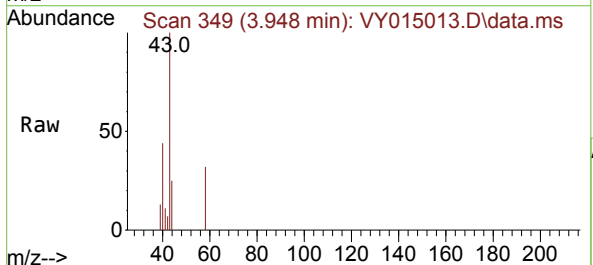
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21B

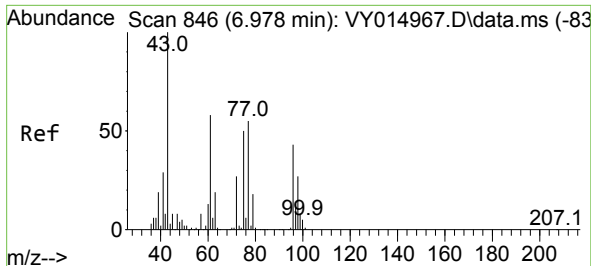
Tgt Ion: 56 Resp: 130
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#



#16
Acetone
Concen: 20.984 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.006 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

Tgt Ion: 43 Resp: 4222
Ion Ratio Lower Upper
43 100
58 32.5 22.7 34.1

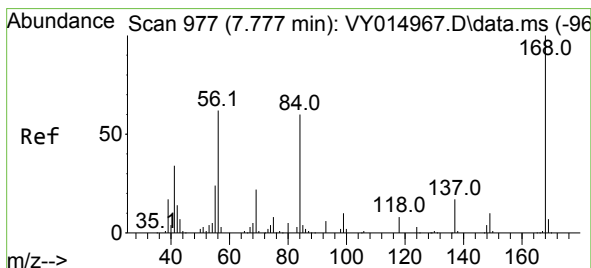
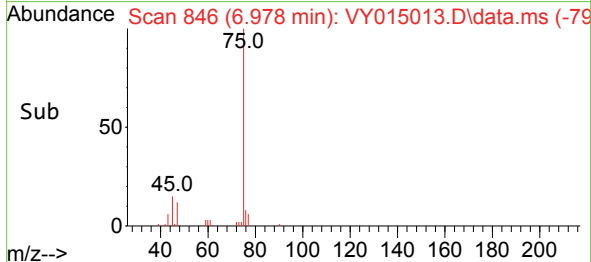
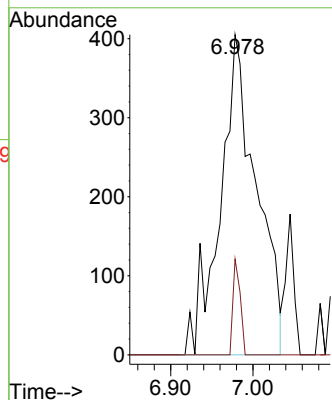
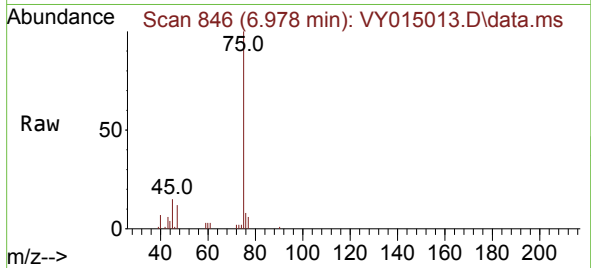




#25
2-Butanone
Concen: 4.313 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

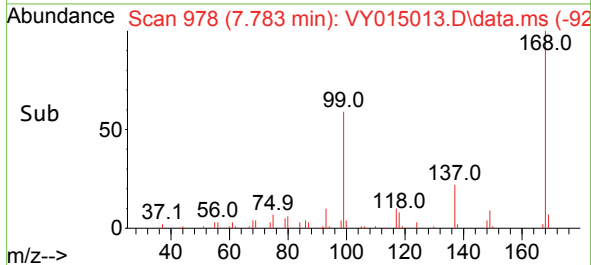
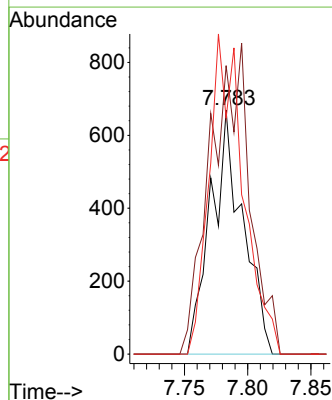
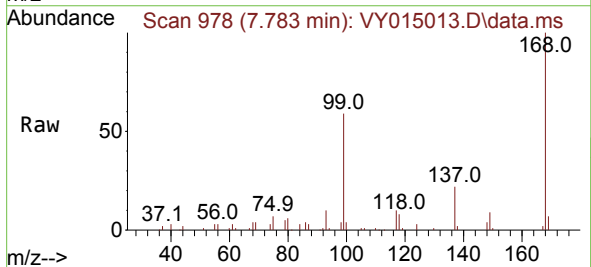
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21B

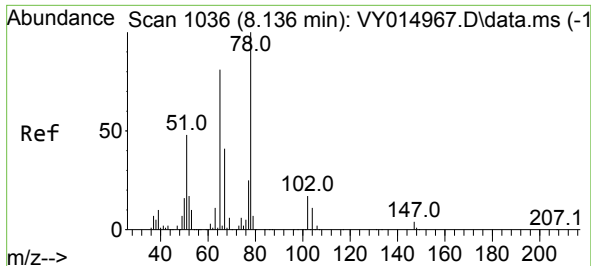
Tgt Ion: 43 Resp: 1243
Ion Ratio Lower Upper
43 100
72 29.9 20.5 30.7



#31
Cyclohexane
Concen: Below Cal
RT: 7.783 min Scan# 978
Delta R.T. 0.006 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

Tgt Ion: 56 Resp: 1177
Ion Ratio Lower Upper
56 100
69 118.2 27.8 41.6#
84 96.7 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 39.470 ug/l

RT: 8.137 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015013.D

Acq: 09 Aug 2023 18:16

Instrument :

MSVOA_Y

ClientSampleId :

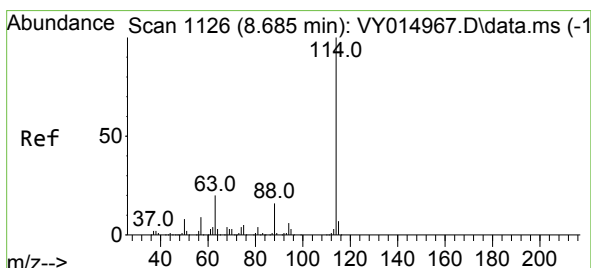
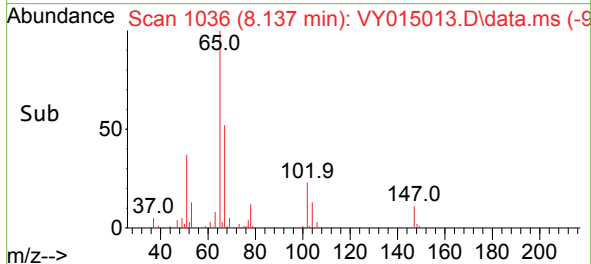
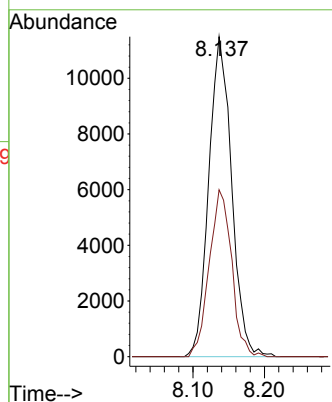
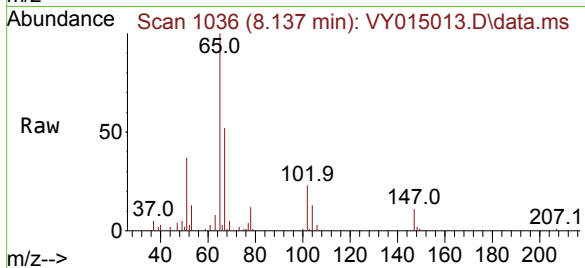
B-PP21B

Tgt Ion: 65 Resp: 25467

Ion Ratio Lower Upper

65 100

67 51.2 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: VY015013.D

Acq: 09 Aug 2023 18:16

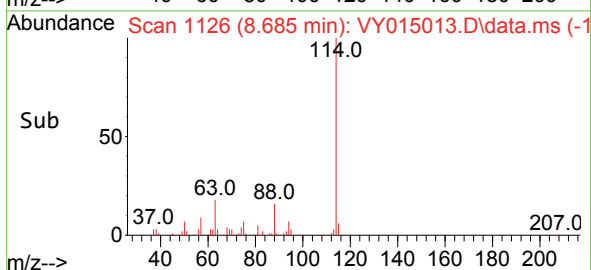
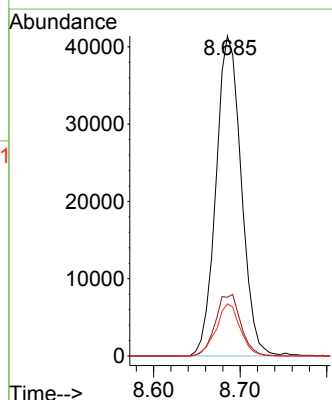
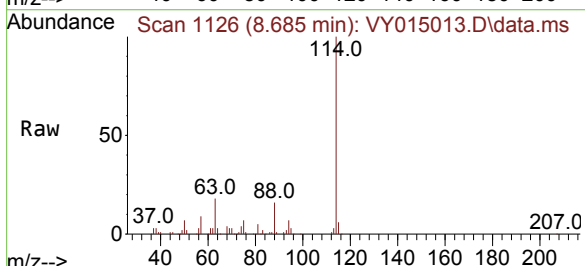
Tgt Ion: 114 Resp: 83783

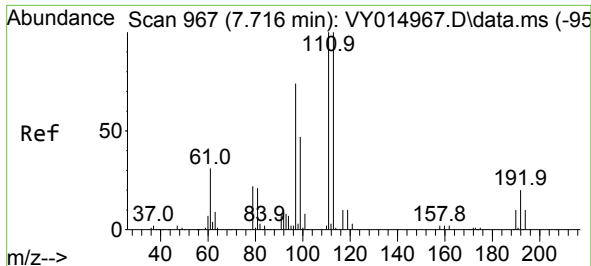
Ion Ratio Lower Upper

114 100

63 18.4 0.0 42.4

88 16.3 0.0 30.6

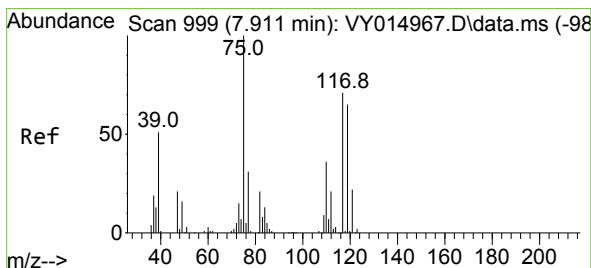
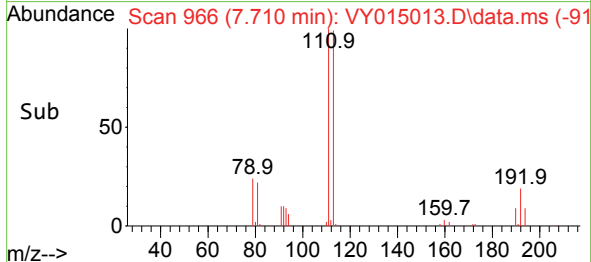
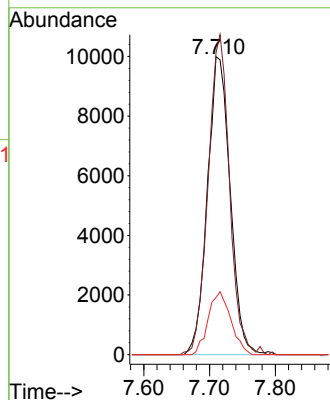
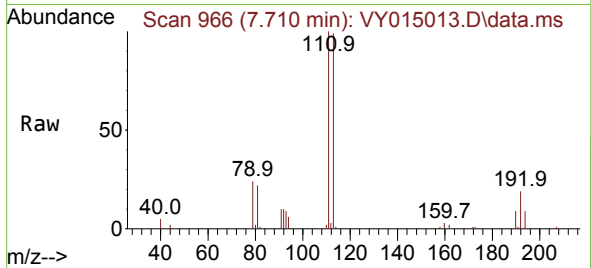




#35
Dibromofluoromethane
Concen: 45.075 ug/l
RT: 7.710 min Scan# 911
Delta R.T. -0.006 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

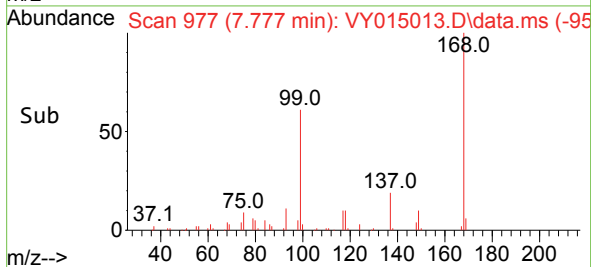
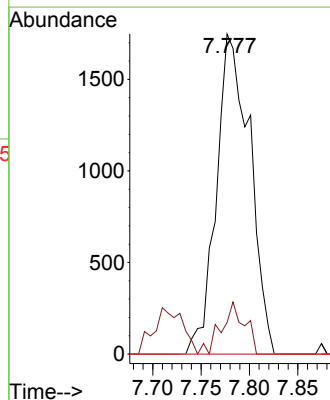
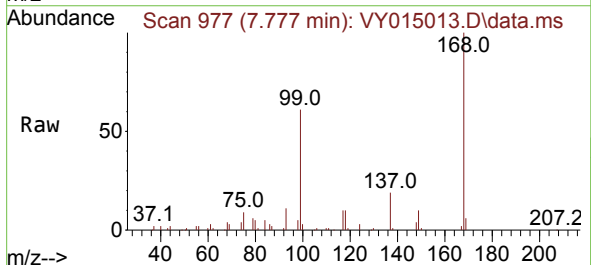
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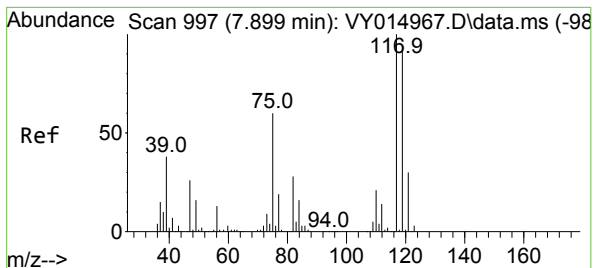
Tgt Ion:113 Resp: 24150
Ion Ratio Lower Upper
113 100
111 100.7 81.3 121.9
192 21.0 16.9 25.3



#36
1,1-Dichloropropene
Concen: 6.326 ug/l
RT: 7.777 min Scan# 977
Delta R.T. -0.134 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

Tgt Ion: 75 Resp: 4208
Ion Ratio Lower Upper
75 100
110 11.3 17.8 53.5#
77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 6.962 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.110 min

Lab File: VY015013.D

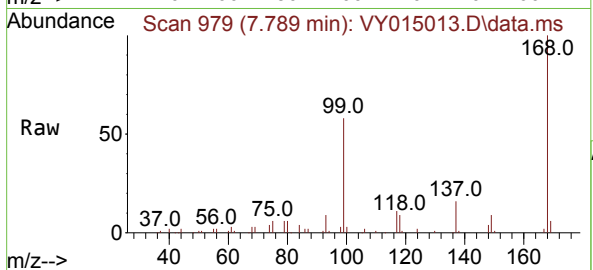
Acq: 09 Aug 2023 18:16

Instrument :

MSVOA_Y

ClientSampleId :

B-PP21B



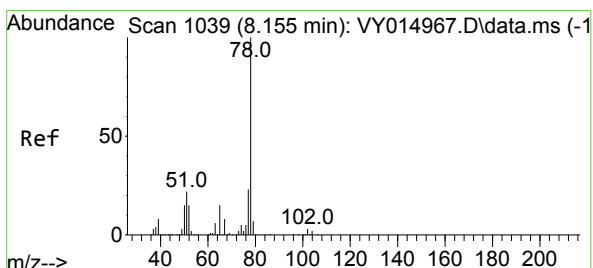
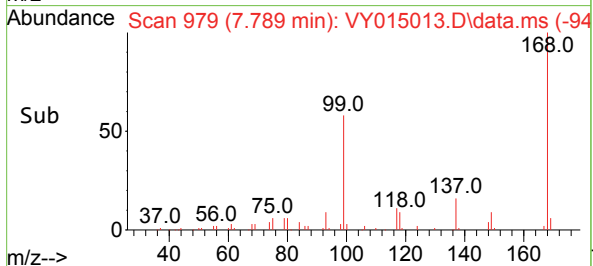
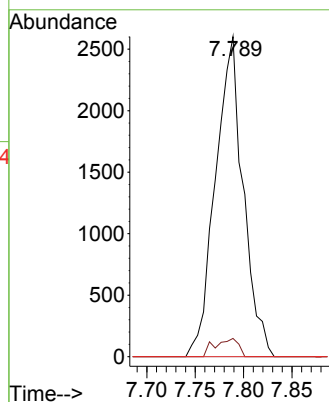
Tgt Ion:117 Resp: 5206

Ion Ratio Lower Upper

117 100

119 5.7 76.4 114.6#

121 0.0 25.8 38.6#



#40

Benzene

Concen: 3.606 ug/l

RT: 8.155 min Scan# 1039

Delta R.T. 0.000 min

Lab File: VY015013.D

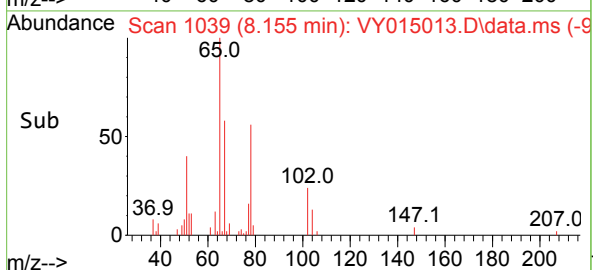
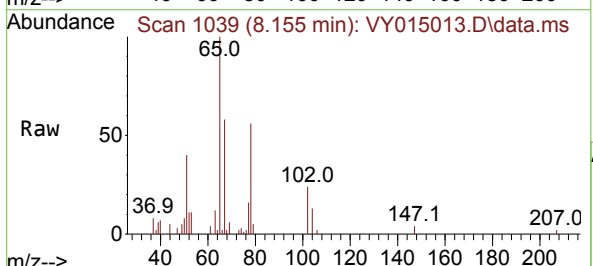
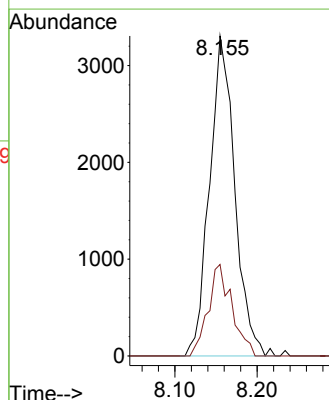
Acq: 09 Aug 2023 18:16

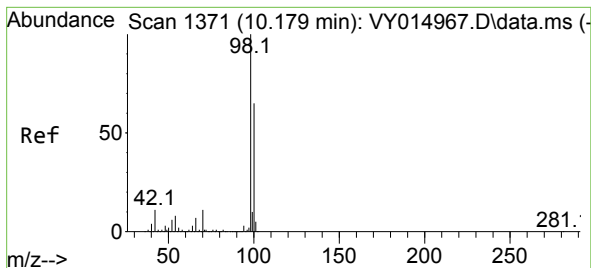
Tgt Ion: 78 Resp: 7063

Ion Ratio Lower Upper

78 100

77 28.6 19.0 28.6#

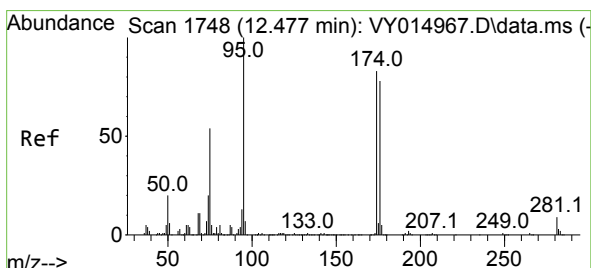
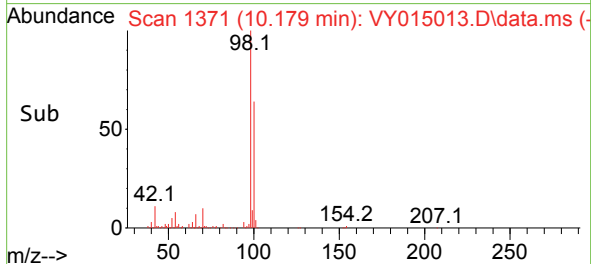
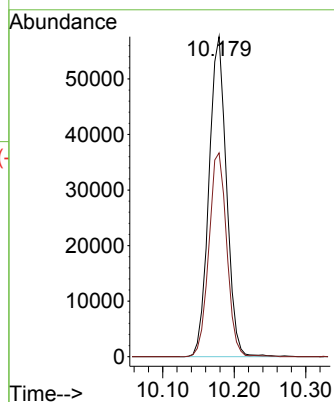
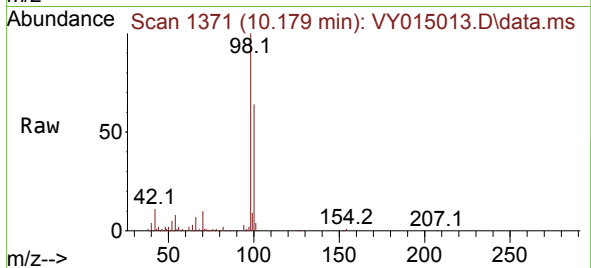




#50
Toluene-d8
Concen: 48.137 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

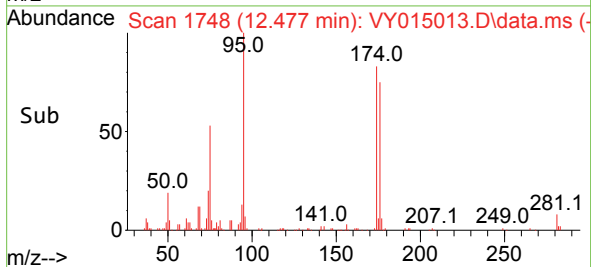
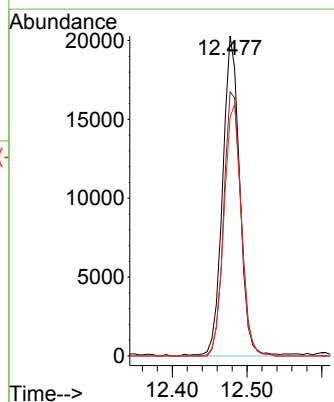
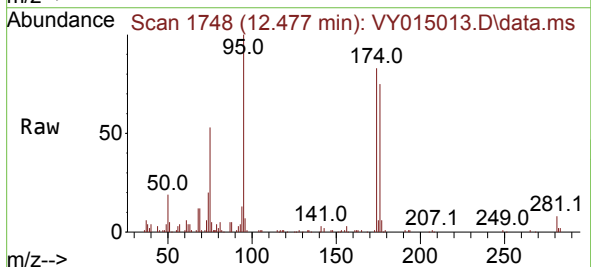
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21B

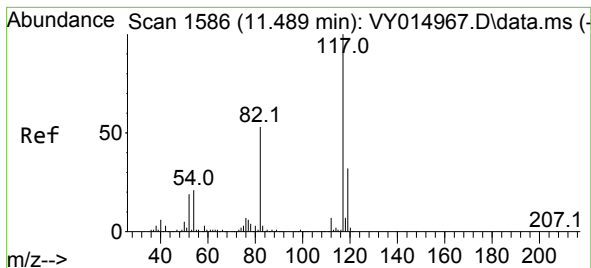
Tgt Ion: 98 Resp: 98165
Ion Ratio Lower Upper
98 100
100 64.9 50.1 75.1



#62
4-Bromofluorobenzene
Concen: 44.563 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

Tgt Ion: 95 Resp: 32208
Ion Ratio Lower Upper
95 100
174 83.8 0.0 178.2
176 79.6 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: VY015013.D

Acq: 09 Aug 2023 18:16

Instrument :

MSVOA_Y

ClientSampleId :

B-PP21B

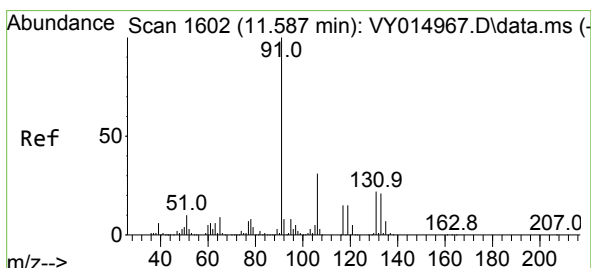
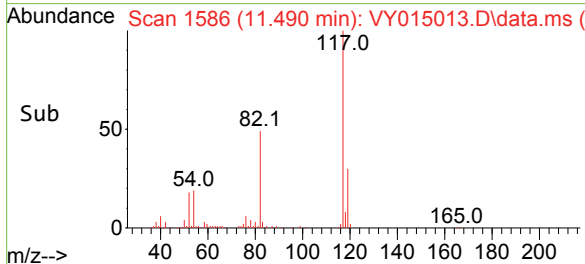
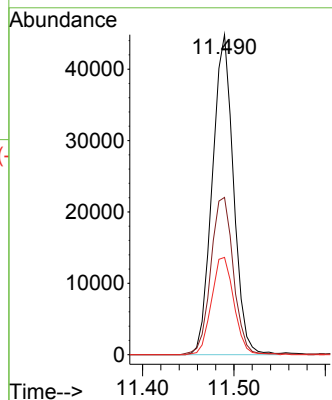
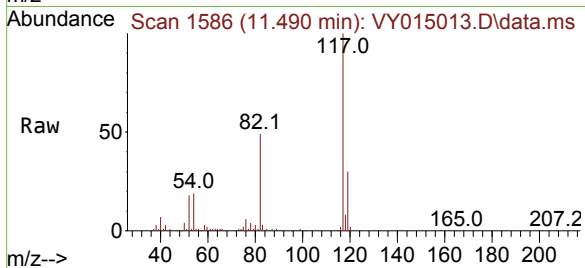
Tgt Ion:117 Resp: 72064

Ion Ratio Lower Upper

117 100

82 49.2 43.4 65.0

119 30.4 26.3 39.5



#67

Ethyl Benzene

Concen: 37.204 ug/l

RT: 11.587 min Scan# 1602

Delta R.T. 0.000 min

Lab File: VY015013.D

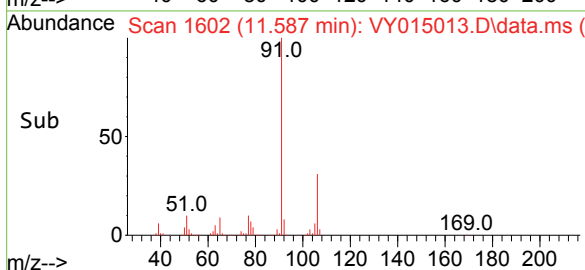
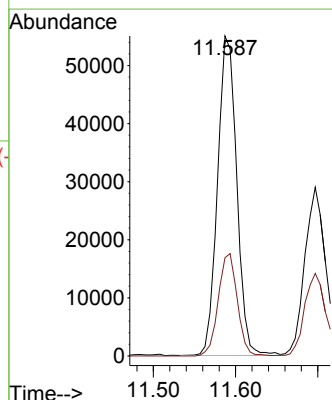
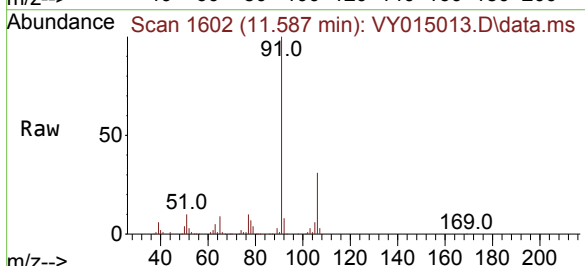
Acq: 09 Aug 2023 18:16

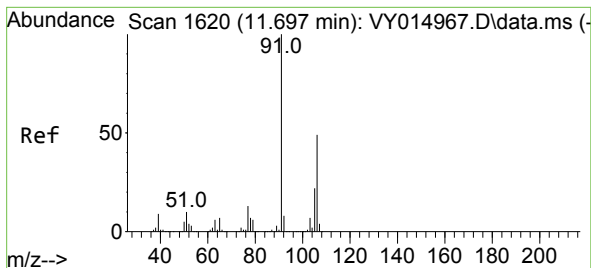
Tgt Ion: 91 Resp: 89282

Ion Ratio Lower Upper

91 100

106 30.8 24.6 36.8

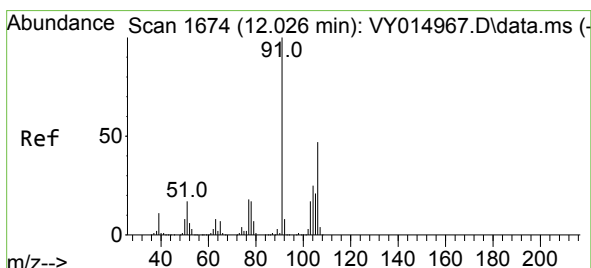
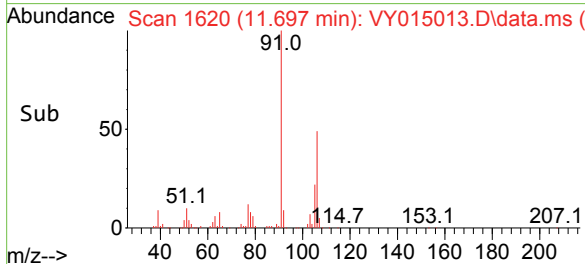
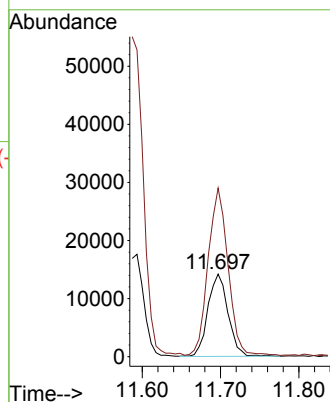
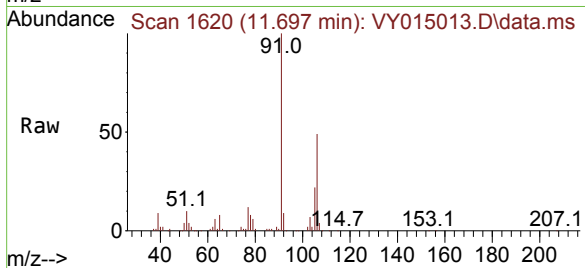




#68
m/p-Xylenes
Concen: 27.514 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

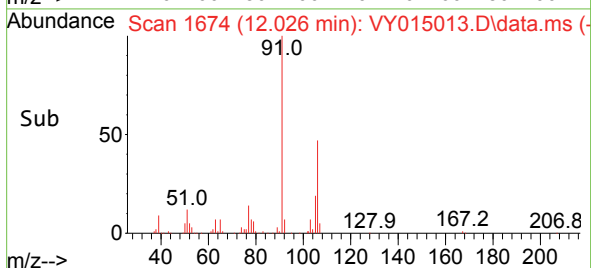
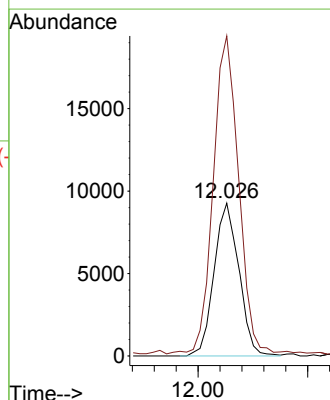
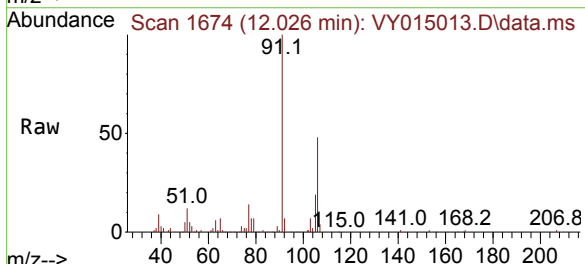
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21B

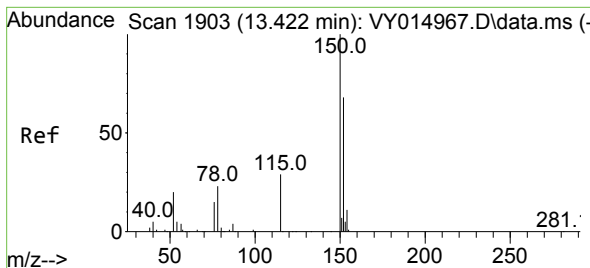
Tgt Ion:106 Resp: 25259
Ion Ratio Lower Upper
106 100
91 201.4 166.1 249.1



#69
o-Xylene
Concen: 16.223 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

Tgt Ion:106 Resp: 14573
Ion Ratio Lower Upper
106 100
91 212.1 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY015013.D

Acq: 09 Aug 2023 18:16

Instrument :

MSVOA_Y

ClientSampleId :

B-PP21B

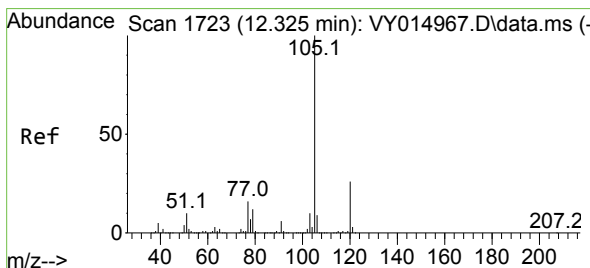
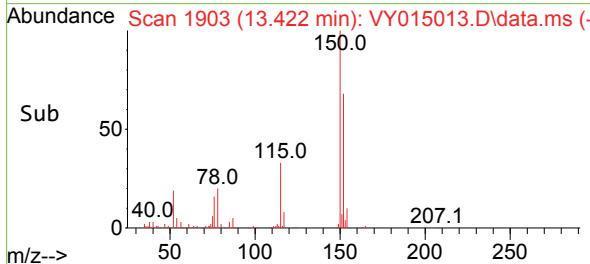
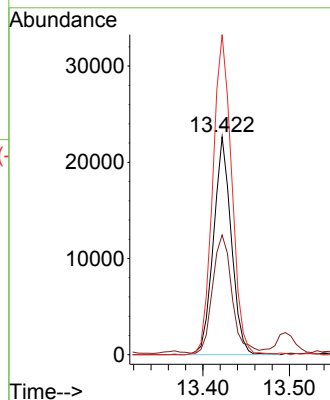
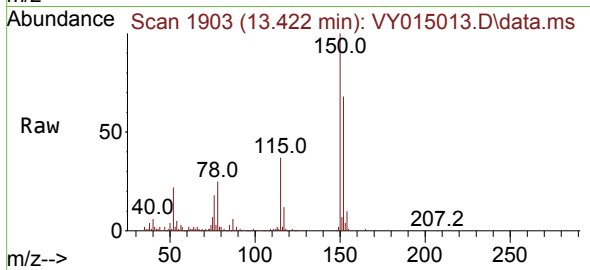
Tgt Ion:152 Resp: 32343

Ion Ratio Lower Upper

152 100

115 58.9 28.8 86.5

150 155.8 0.0 348.8



#73

Isopropylbenzene

Concen: 5.454 ug/l

RT: 12.325 min Scan# 1723

Delta R.T. 0.000 min

Lab File: VY015013.D

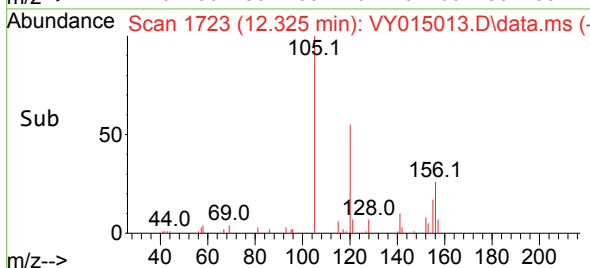
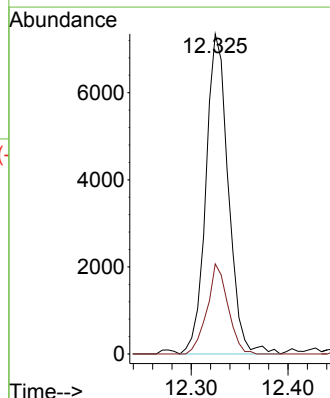
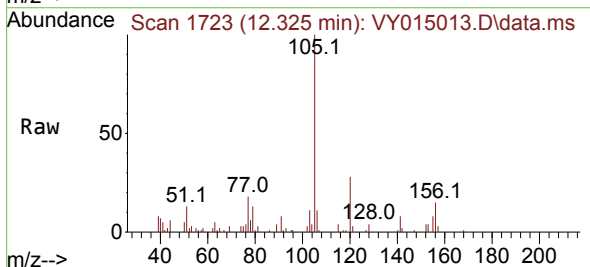
Acq: 09 Aug 2023 18:16

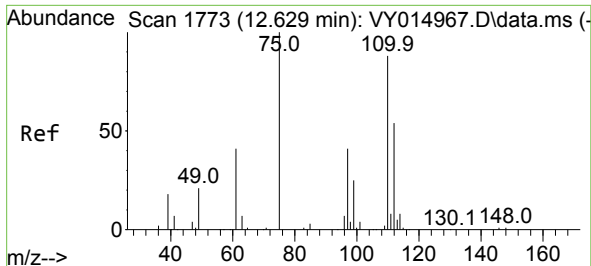
Tgt Ion:105 Resp: 11858

Ion Ratio Lower Upper

105 100

120 26.1 13.3 39.9

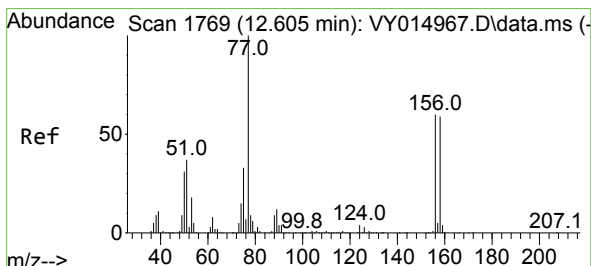
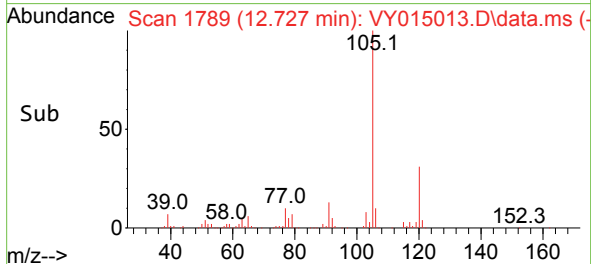
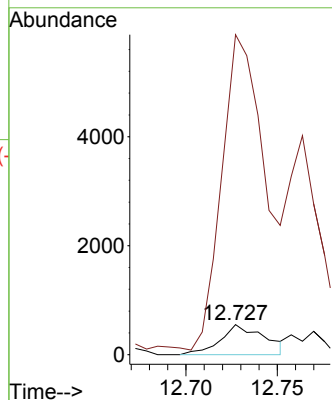
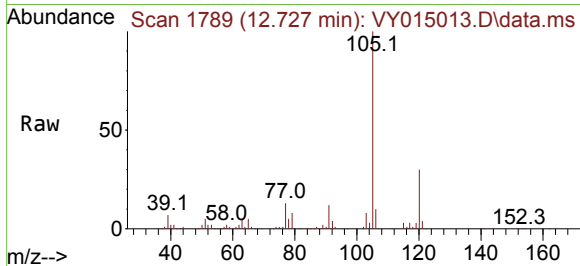




#76
1,2,3-Trichloropropane
Concen: 2.371 ug/l
RT: 12.727 min Scan# 1731
Delta R.T. 0.098 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

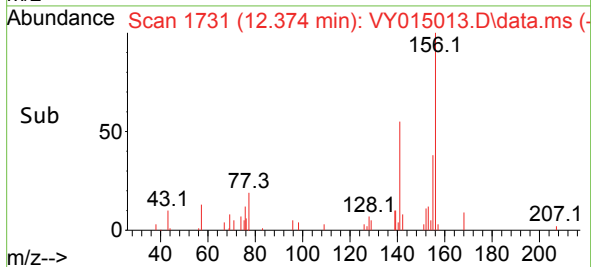
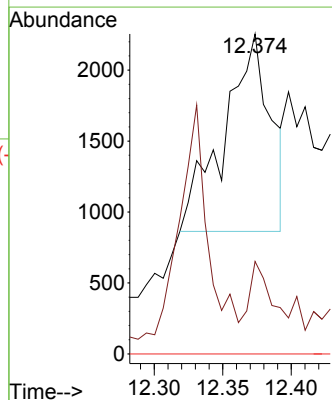
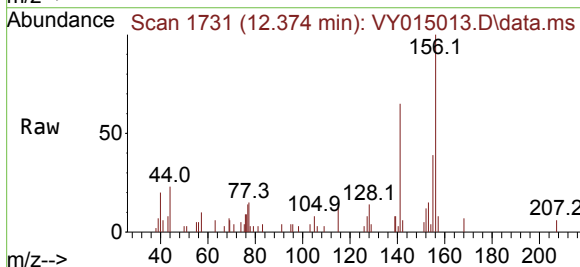
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21B

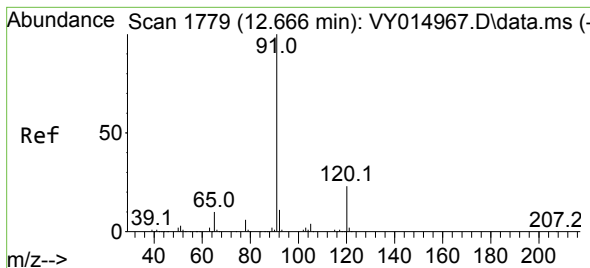
Tgt Ion: 75 Resp: 919
Ion Ratio Lower Upper
75 100
77 1025.1 0.0 0.0#



#77
Bromobenzene
Concen: 6.231 ug/l
RT: 12.374 min Scan# 1731
Delta R.T. -0.231 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

Tgt Ion: 156 Resp: 3286
Ion Ratio Lower Upper
156 100
77 12.1 92.8 278.6#
158 0.0 48.4 145.3#





#78

n-propylbenzene

Concen: 2.947 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. 0.006 min

Lab File: VY015013.D

Acq: 09 Aug 2023 18:16

Instrument :

MSVOA_Y

ClientSampleId :

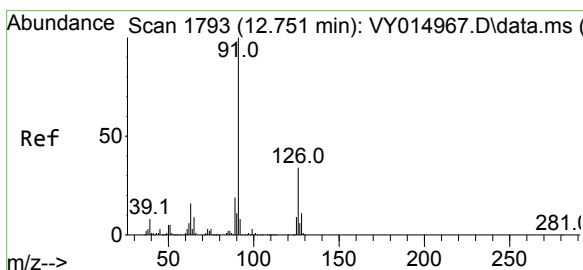
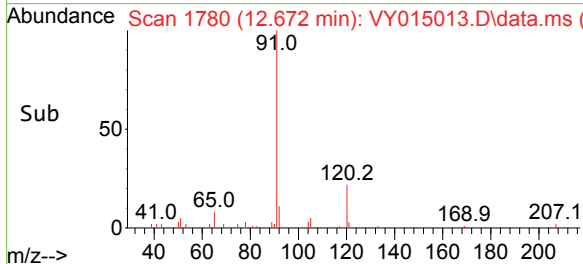
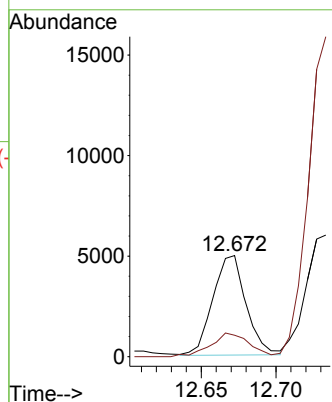
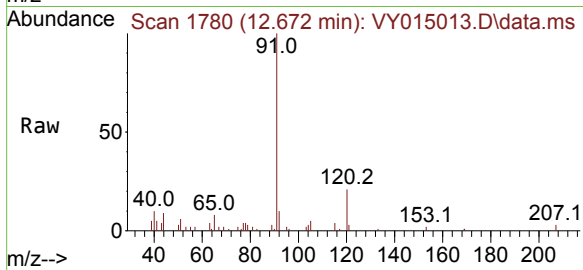
B-PP21B

Tgt Ion: 91 Resp: 7663

Ion Ratio Lower Upper

91 100

120 27.3 11.5 34.4



#79

2-Chlorotoluene

Concen: 6.681 ug/l

RT: 12.733 min Scan# 1790

Delta R.T. -0.018 min

Lab File: VY015013.D

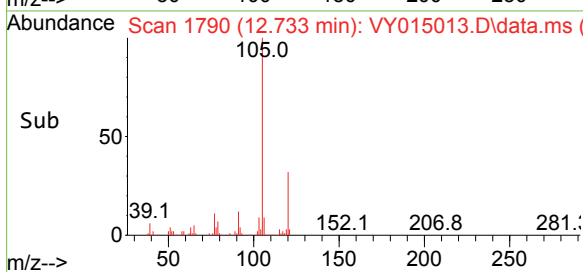
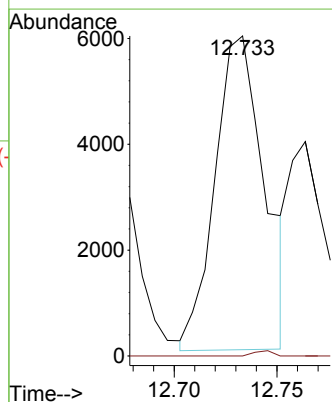
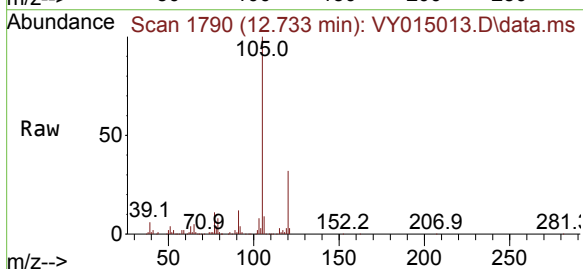
Acq: 09 Aug 2023 18:16

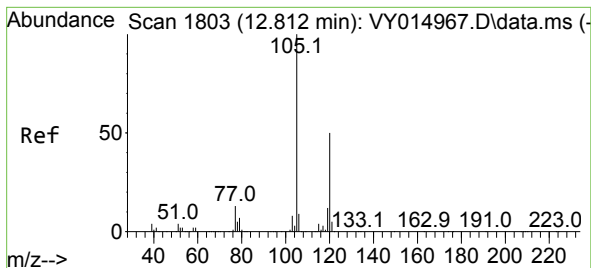
Tgt Ion: 91 Resp: 9902

Ion Ratio Lower Upper

91 100

126 0.6 17.3 51.7#





#80

1,3,5-Trimethylbenzene

Concen: 10.377 ug/l

RT: 12.813 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015013.D

Acq: 09 Aug 2023 18:16

Instrument :

MSVOA_Y

ClientSampleId :

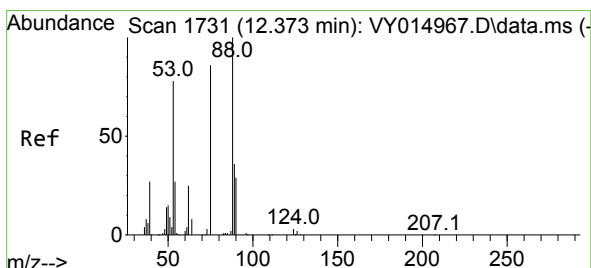
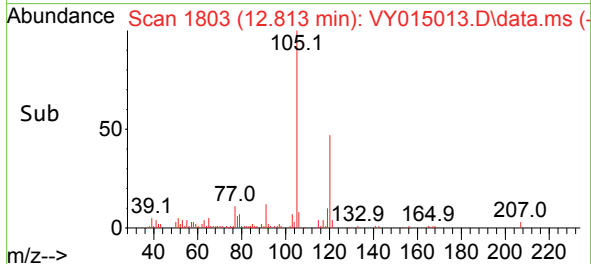
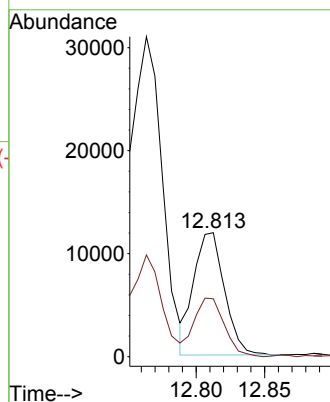
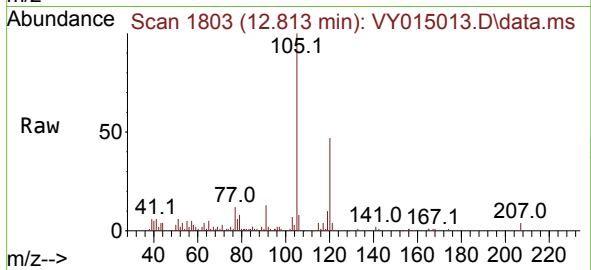
B-PP21B

Tgt Ion:105 Resp: 18592

Ion Ratio Lower Upper

105 100

120 47.0 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 95.404 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.104 min

Lab File: VY015013.D

Acq: 09 Aug 2023 18:16

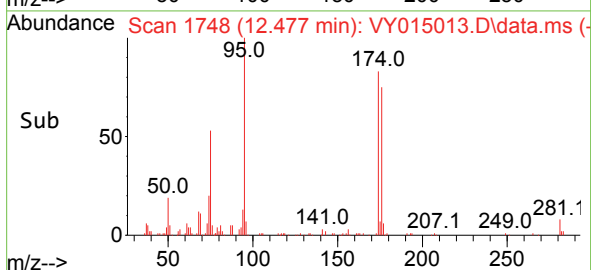
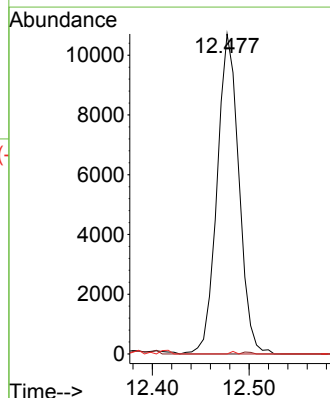
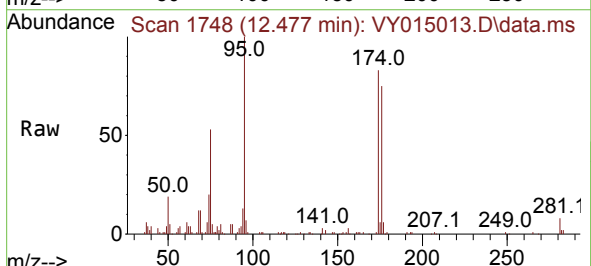
Tgt Ion: 75 Resp: 16783

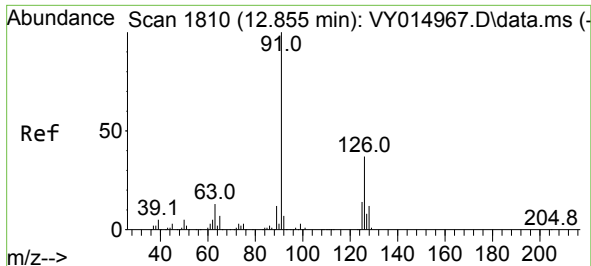
Ion Ratio Lower Upper

75 100

53 0.3 77.8 116.8#

89 0.2 37.4 56.0#

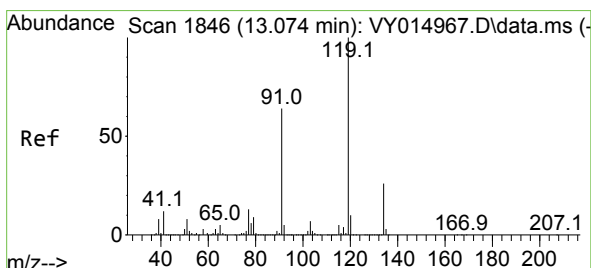
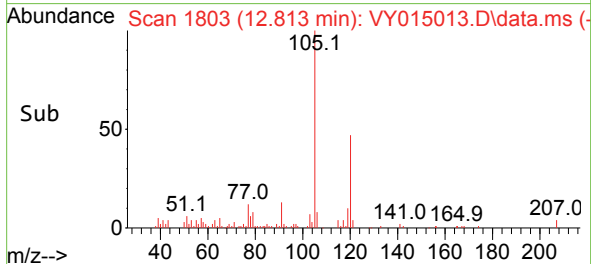
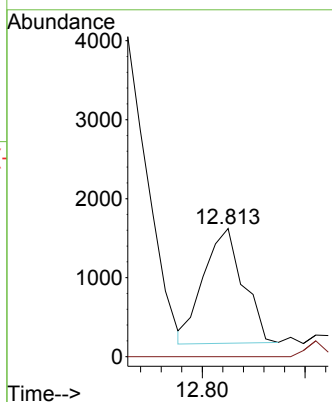
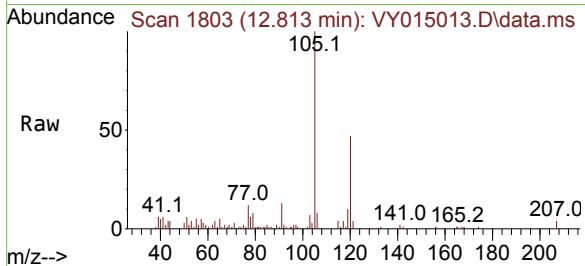




#82
4-Chlorotoluene
Concen: 1.269 ug/l
RT: 12.813 min Scan# 1803
Delta R.T. -0.042 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

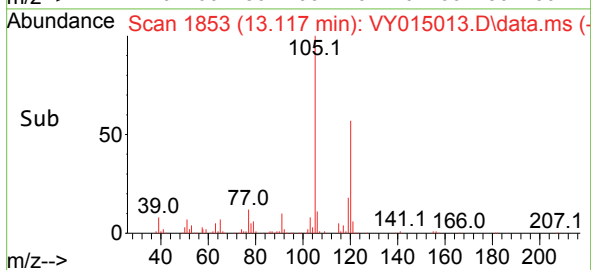
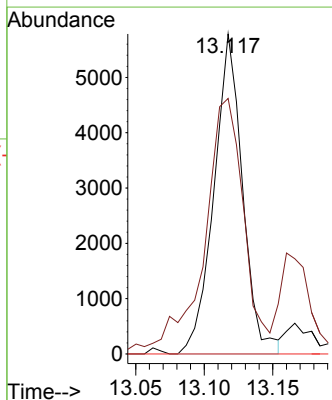
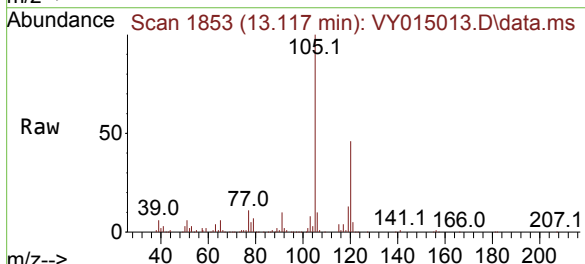
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21B

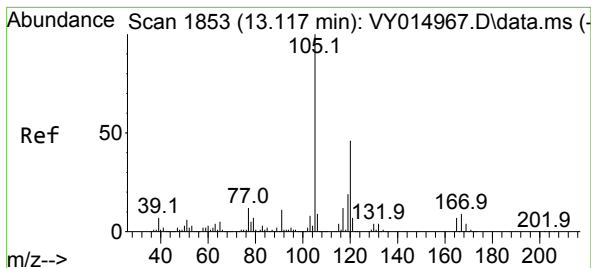
Tgt Ion: 91 Resp: 1944
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#83
tert-Butylbenzene
Concen: 5.124 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.043 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

Tgt Ion: 119 Resp: 8399
Ion Ratio Lower Upper
119 100
91 113.0 32.9 98.6#
134 0.0 13.0 38.9#





#84

1,2,4-Trimethylbenzene

Concen: 36.593 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY015013.D

Acq: 09 Aug 2023 18:16

Instrument :

MSVOA_Y

ClientSampleId :

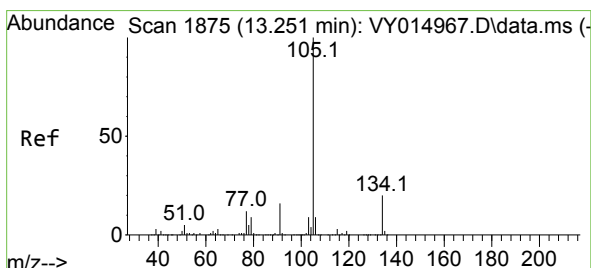
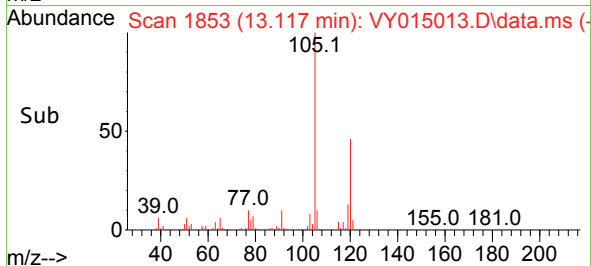
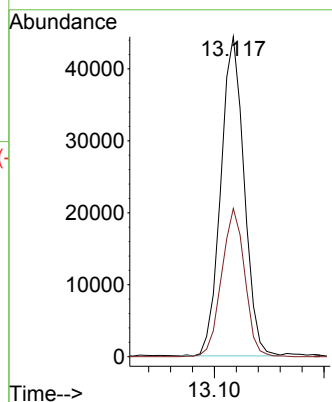
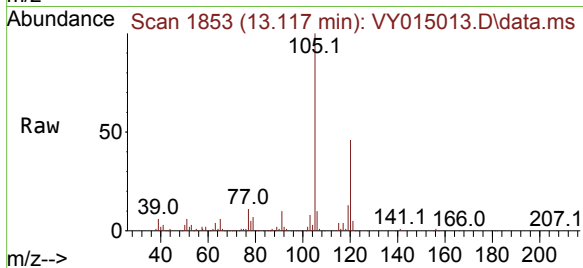
B-PP21B

Tgt Ion:105 Resp: 65686

Ion Ratio Lower Upper

105 100

120 46.0 22.2 66.6



#85

sec-Butylbenzene

Concen: 27.307 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.134 min

Lab File: VY015013.D

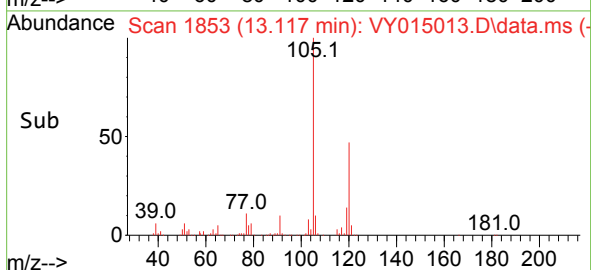
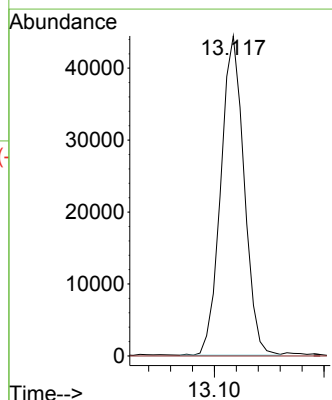
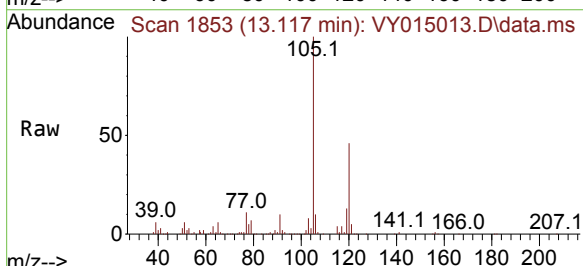
Acq: 09 Aug 2023 18:16

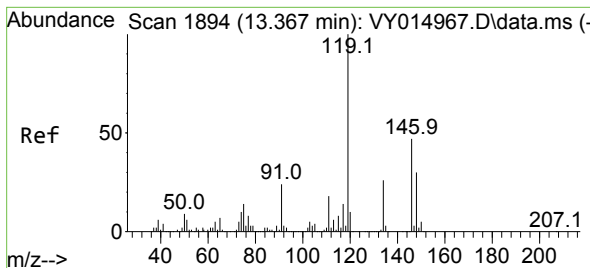
Tgt Ion:105 Resp: 65686

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#

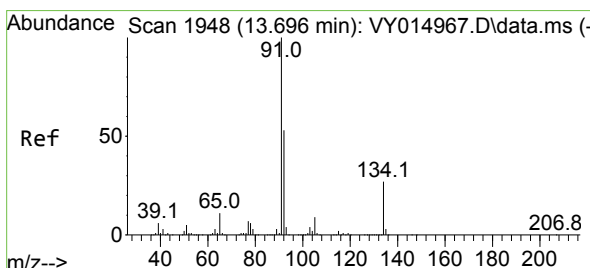
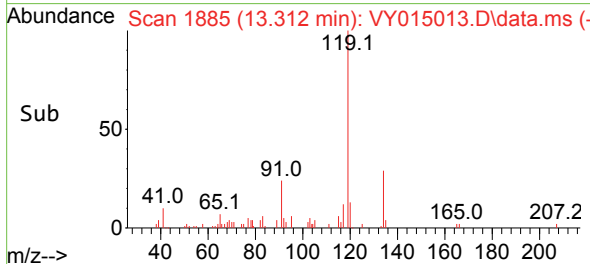
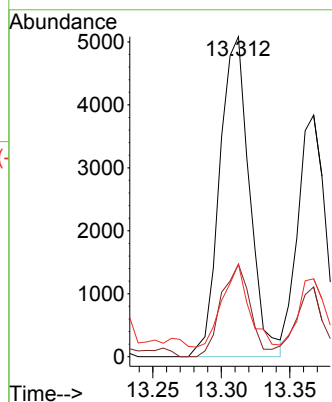
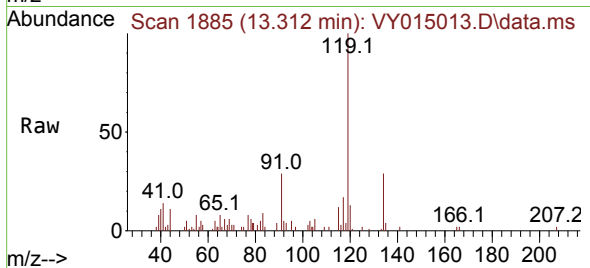




#86
p-Isopropyltoluene
Concen: 3.879 ug/l
RT: 13.312 min Scan# 1885
Delta R.T. -0.055 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

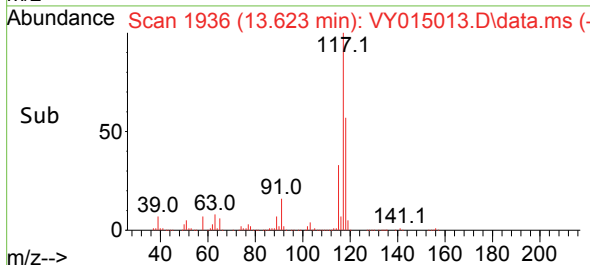
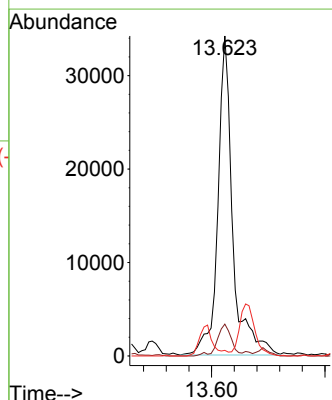
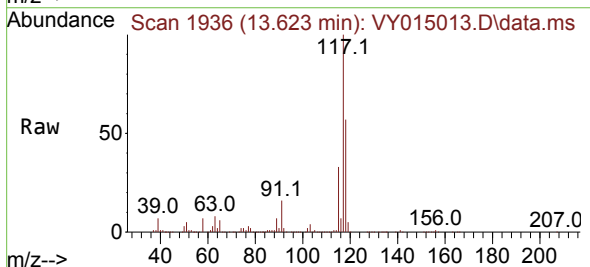
Instrument :
MSVOA_Y
ClientSampleId :
B-PP21B

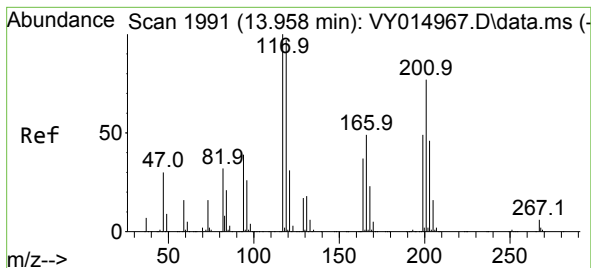
Tgt Ion:119 Resp: 7723
Ion Ratio Lower Upper
119 100
134 28.1 13.3 39.8
91 22.8 12.4 37.4



#89
n-Butylbenzene
Concen: 33.010 ug/l
RT: 13.623 min Scan# 1936
Delta R.T. -0.073 min
Lab File: VY015013.D
Acq: 09 Aug 2023 18:16

Tgt Ion: 91 Resp: 61756
Ion Ratio Lower Upper
91 100
92 9.5 25.4 76.0#
134 0.0 12.6 37.6#





#90

Hexachloroethane

Concen: 9.729 ug/l

RT: 13.965 min Scan# 1991

Delta R.T. 0.006 min

Lab File: VY015013.D

Acq: 09 Aug 2023 18:16

Instrument :

MSVOA_Y

ClientSampleId :

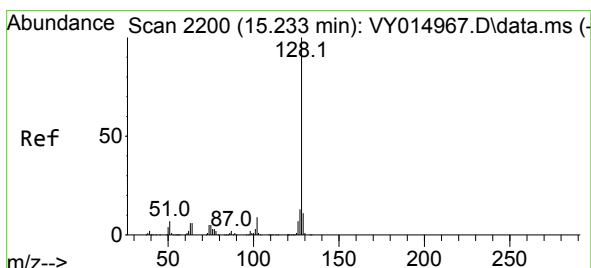
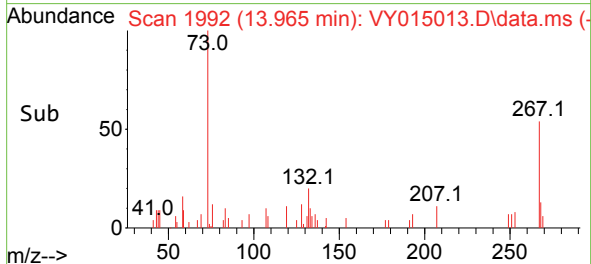
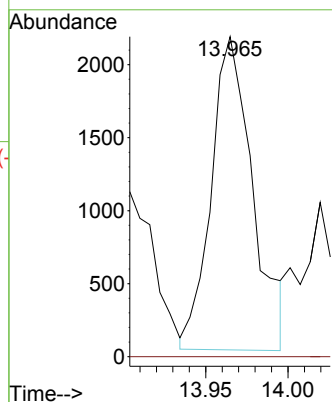
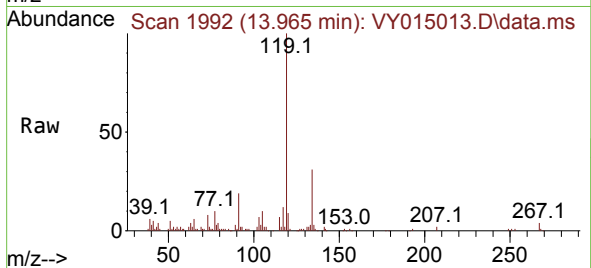
B-PP21B

Tgt Ion:117 Resp: 3762

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#95

Naphthalene

Concen: 681.308 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. 0.000 min

Lab File: VY015013.D

Acq: 09 Aug 2023 18:16

Tgt Ion:128 Resp: 977288

Ion Ratio Lower Upper

128 100

127 12.9 10.8 16.2

129 10.9 8.6 13.0

