

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080923\
 Data File : VY015015.D
 Acq On : 09 Aug 2023 19:04
 Operator : SY/MD
 Sample : 03956-02
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-PP23A

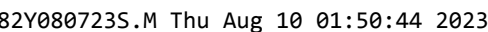
Quant Time: Aug 10 01:50:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y080723S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 07:44:56 2023
 Response via : Initial Calibration

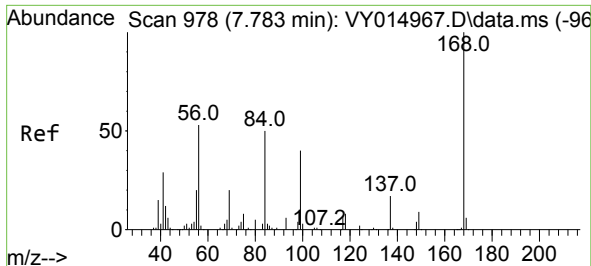
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.789	168	27051	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	38288	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	27809	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	9733	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	9398	28.664	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	57.320%		
35) Dibromofluoromethane	7.716	113	7818	31.931	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	63.860%		
50) Toluene-d8	10.179	98	42203	45.285	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	90.580%		
62) 4-Bromofluorobenzene	12.477	95	11118	33.661	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	67.320%		
Target Compounds						Qvalue
3) Chloromethane	2.113	50	405	1.902	ug/l #	86
10) Methyl Iodide	4.107	142	975	3.843	ug/l #	72
11) Tert butyl alcohol	4.918	59	670	8.467	ug/l #	89
16) Acetone	3.936	43	1349	13.195	ug/l #	84
20) Methylene Chloride	4.704	84	2841	Below Cal	#	85
25) 2-Butanone	6.972	43	1042	7.116	ug/l #	49
26) 2,2-Dichloropropane	6.960	77	1093	2.296	ug/l #	54
31) Cyclohexane	7.789	56	494	Below Cal	#	15
36) 1,1-Dichloropropene	7.783	75	2233	7.346	ug/l #	44
38) Carbon Tetrachloride	7.783	117	2812	8.229	ug/l #	16
40) Benzene	8.167	78	3254	3.635	ug/l	95
67) Ethyl Benzene	11.593	91	28868	31.173	ug/l	98
68) m/p-Xylenes	11.697	106	8477	23.928	ug/l	95
69) o-Xylene	12.026	106	5036	14.528	ug/l	96
73) Isopropylbenzene	12.325	105	4601	7.032	ug/l	96
76) 1,2,3-Trichloropropane	12.721	75	239	2.049	ug/l #	100
78) n-propylbenzene	12.672	91	3135	4.006	ug/l	98
79) 2-Chlorotoluene	12.733	91	3398	7.619	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.813	105	7562	14.025	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.477	75	5844	110.393	ug/l #	11
82) 4-Chlorotoluene	12.806	91	1131	2.453	ug/l #	40
83) tert-Butylbenzene	13.312	119	3165	6.417	ug/l	69
84) 1,2,4-Trimethylbenzene	13.117	105	25613	47.415	ug/l	96
85) sec-Butylbenzene	13.117	105	25613	35.382	ug/l #	56
86) p-Isopropyltoluene	13.312	119	3165	5.282	ug/l	84
89) n-Butylbenzene	13.623	91	23422	41.602	ug/l #	44
90) Hexachloroethane	13.965	117	1416	12.169	ug/l #	8
95) Naphthalene	15.233	128	318645	738.179	ug/l	99

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

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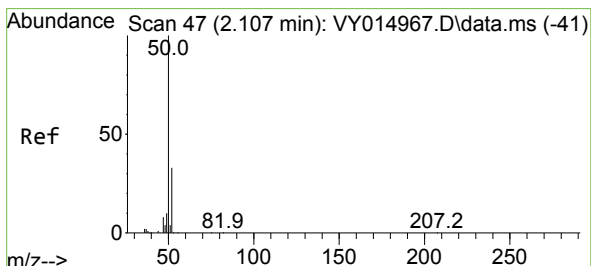
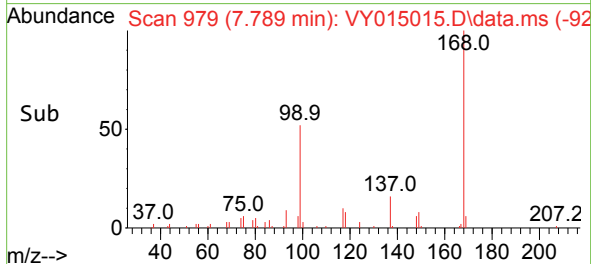
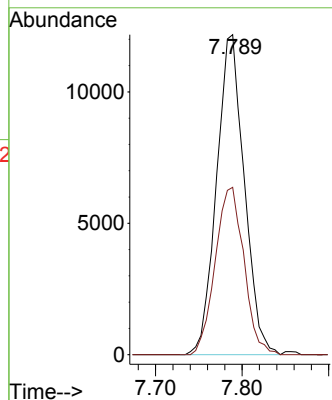
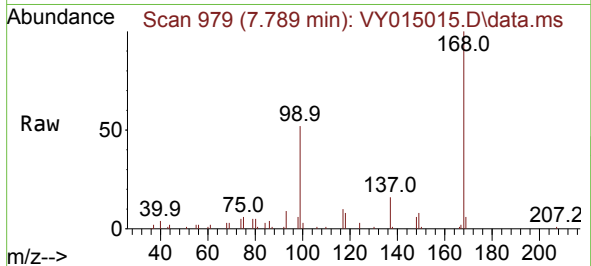




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

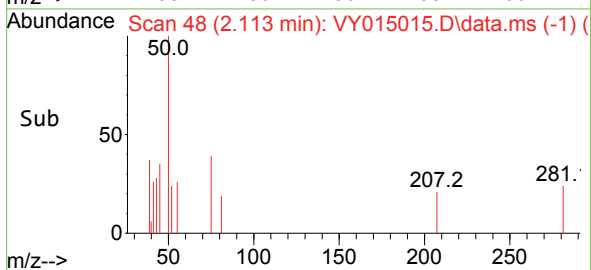
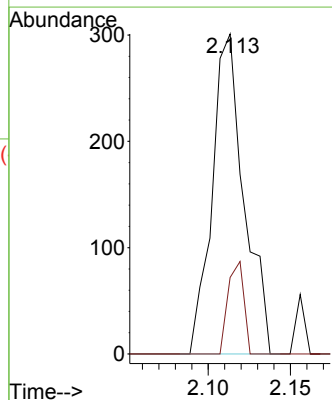
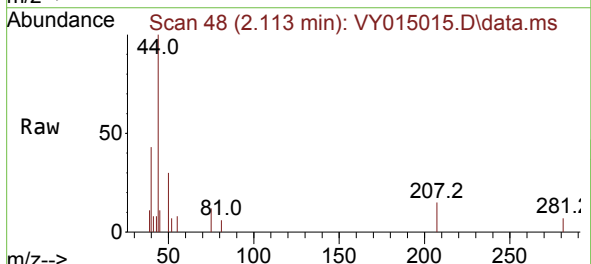
Instrument :
MSVOA_Y
ClientSampleId :
B-PP23A

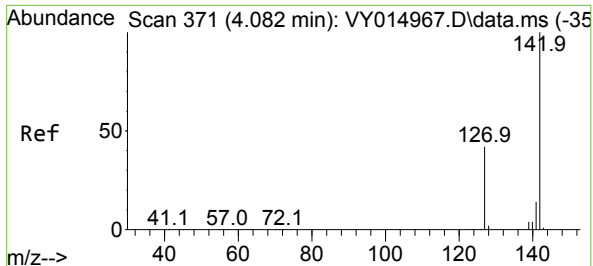
Tgt Ion:168 Resp: 27051
Ion Ratio Lower Upper
168 100
99 52.3 43.4 65.0



#3
Chloromethane
Concen: 1.902 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

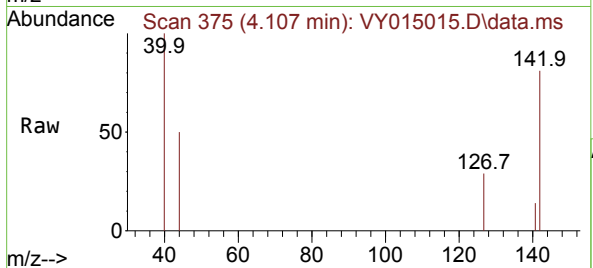
Tgt Ion: 50 Resp: 405
Ion Ratio Lower Upper
50 100
52 23.9 25.4 38.2#



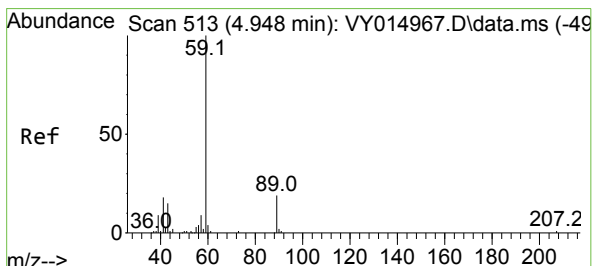
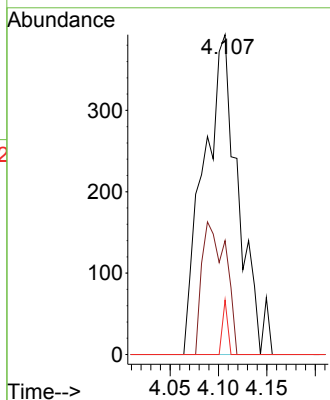
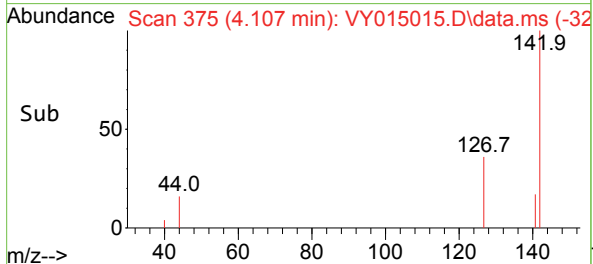


#10
Methyl Iodide
Concen: 3.843 ug/l
RT: 4.107 min Scan# 31
Delta R.T. 0.025 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Instrument :
MSVOA_Y
ClientSampleId :
B-PP23A

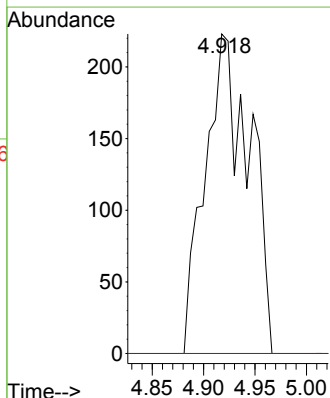
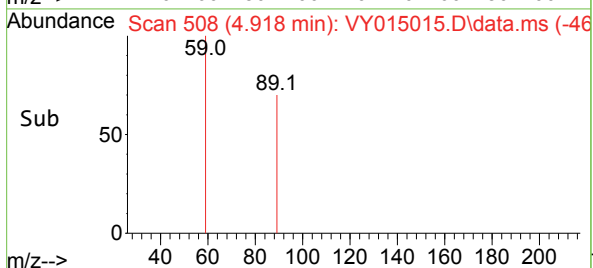
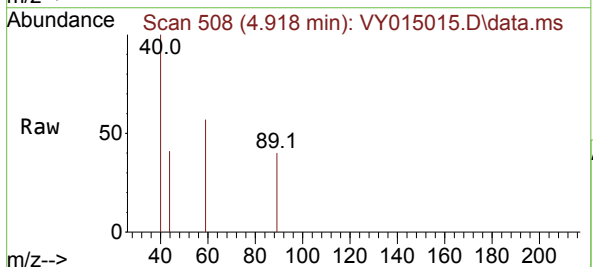


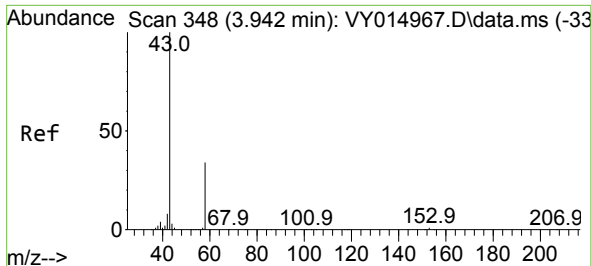
Tgt Ion:142 Resp: 975
Ion Ratio Lower Upper
142 100
127 28.4 37.6 56.4#
141 2.6 11.8 17.8#



#11
Tert butyl alcohol
Concen: 8.467 ug/l
RT: 4.918 min Scan# 508
Delta R.T. -0.030 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Tgt Ion: 59 Resp: 670
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#

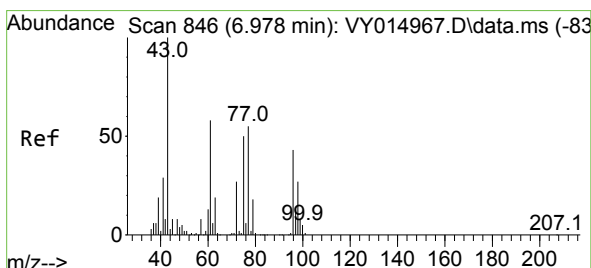
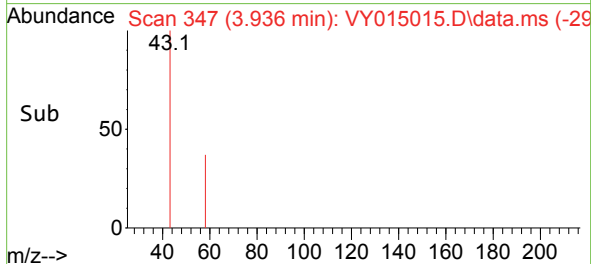
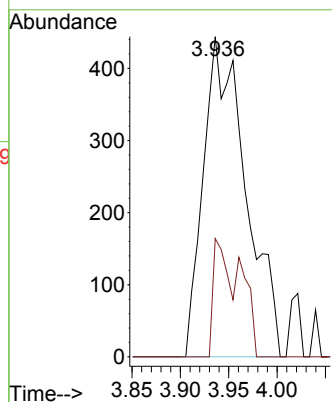
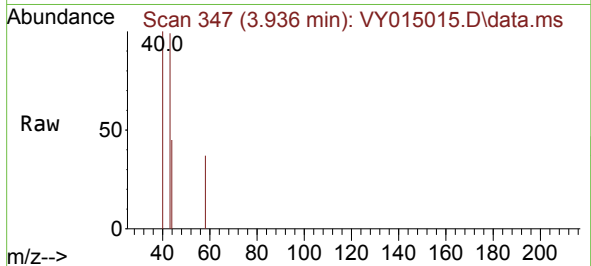




#16
Acetone
Concen: 13.195 ug/l
RT: 3.936 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

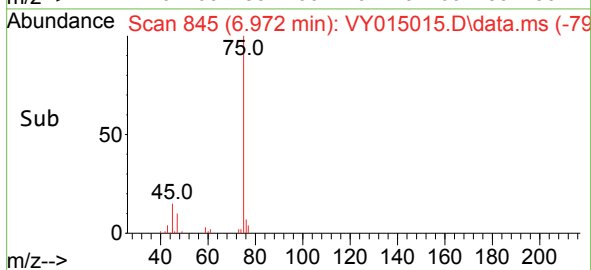
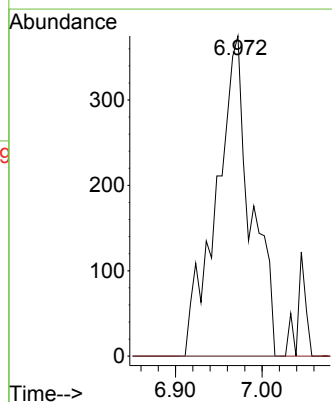
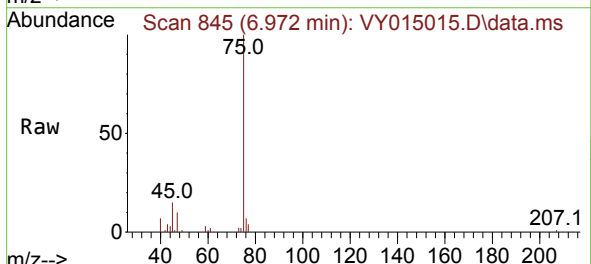
Instrument :
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ClientSampleId :
B-PP23A

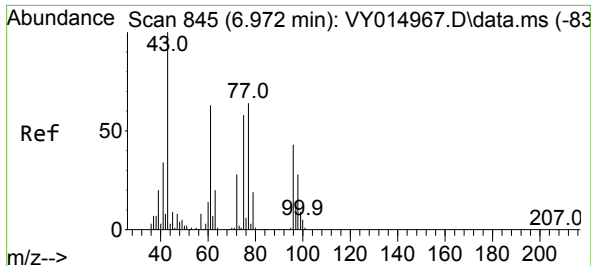
Tgt Ion: 43 Resp: 1349
Ion Ratio Lower Upper
43 100
58 36.9 22.7 34.1#



#25
2-Butanone
Concen: 7.116 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.006 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Tgt Ion: 43 Resp: 1042
Ion Ratio Lower Upper
43 100
72 0.0 20.5 30.7#

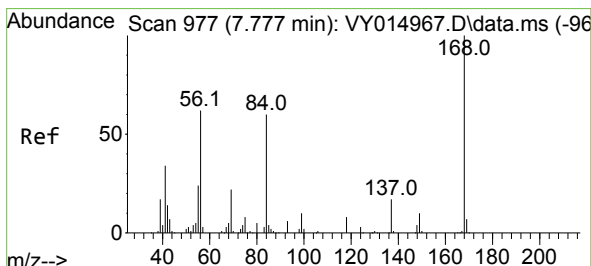
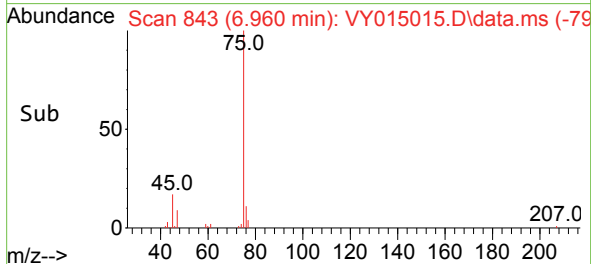
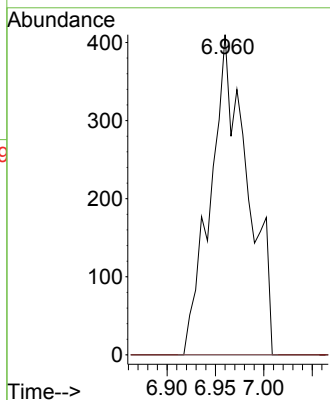
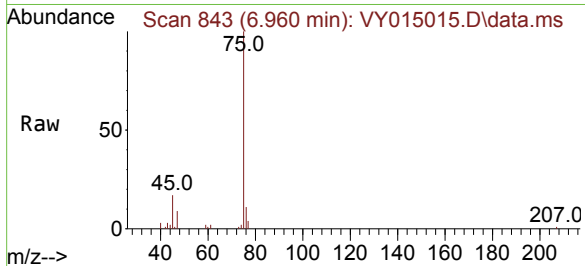




#26
2,2-Dichloropropane
Concen: 2.296 ug/l
RT: 6.960 min Scan# 845
Delta R.T. -0.012 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

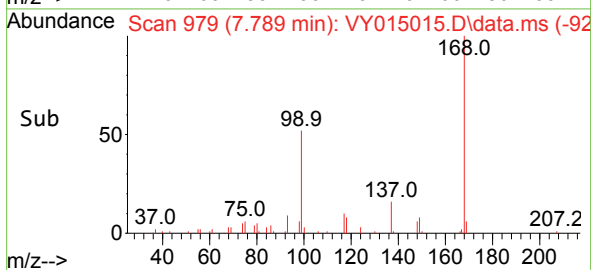
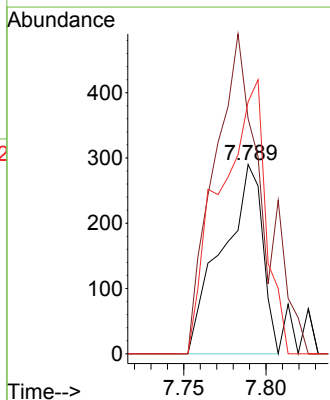
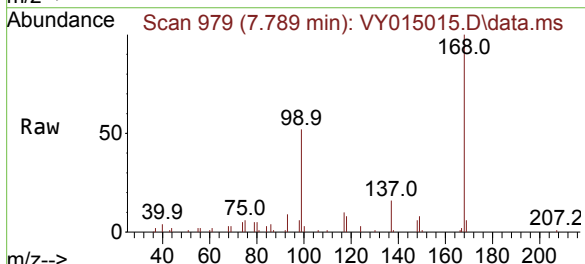
Instrument :
MSVOA_Y
ClientSampleId :
B-PP23A

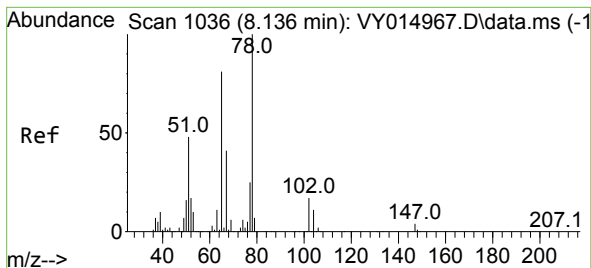
Tgt Ion: 77 Resp: 1093
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



#31
Cyclohexane
Concen: Below Cal
RT: 7.789 min Scan# 979
Delta R.T. 0.012 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Tgt Ion: 56 Resp: 494
Ion Ratio Lower Upper
56 100
69 124.1 27.8 41.6#
84 133.1 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 28.664 ug/l

RT: 8.137 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015015.D

Acq: 09 Aug 2023 19:04

Instrument :

MSVOA_Y

ClientSampleId :

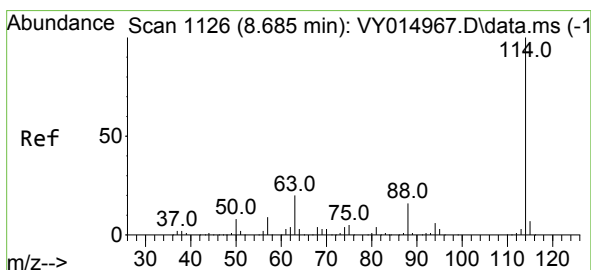
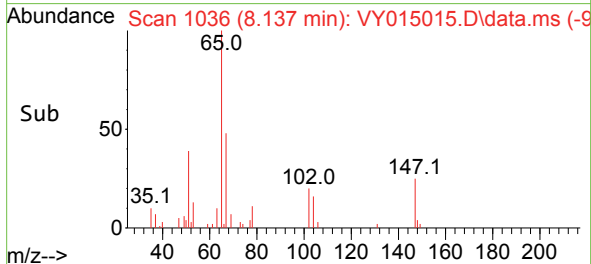
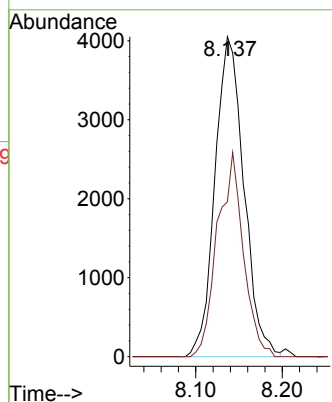
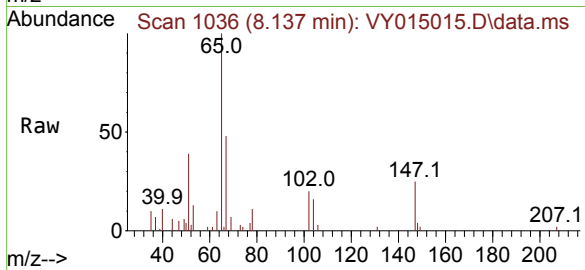
B-PP23A

Tgt Ion: 65 Resp: 9398

Ion Ratio Lower Upper

65 100

67 57.3 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015015.D

Acq: 09 Aug 2023 19:04

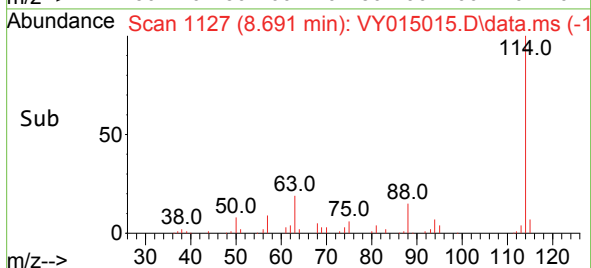
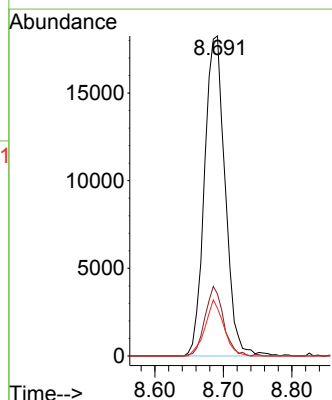
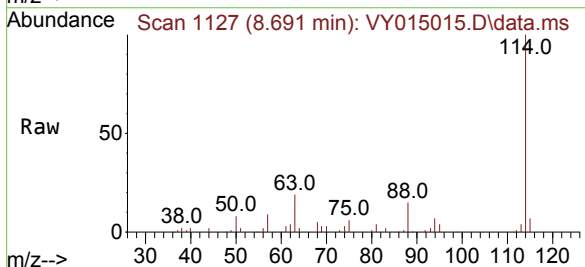
Tgt Ion: 114 Resp: 38288

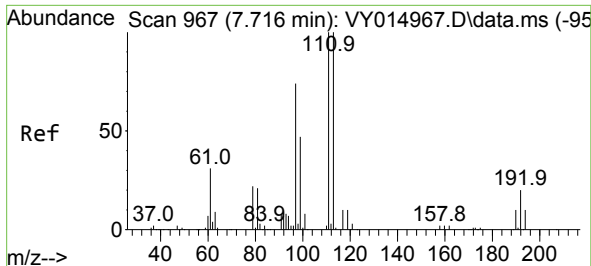
Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.4

88 14.9 0.0 30.6

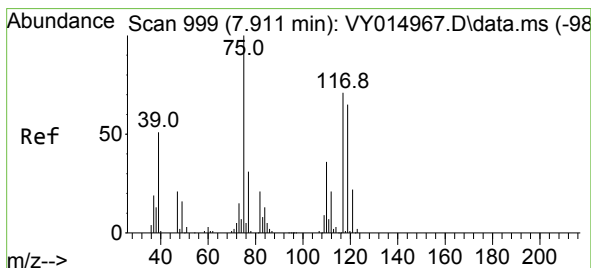
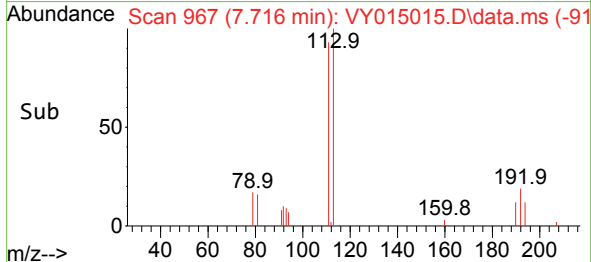
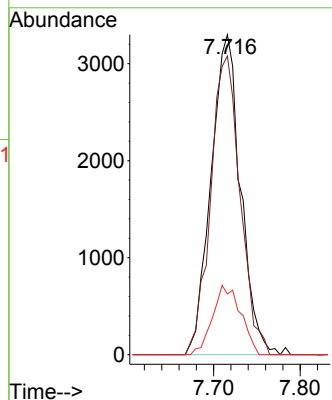
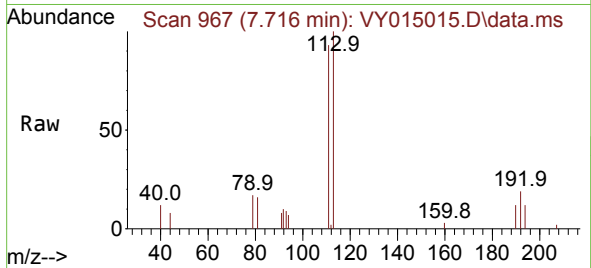




#35
Dibromofluoromethane
Concen: 31.931 ug/l
RT: 7.716 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

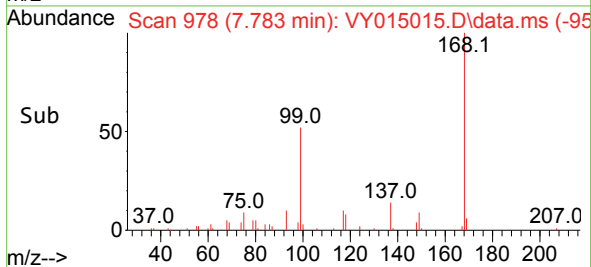
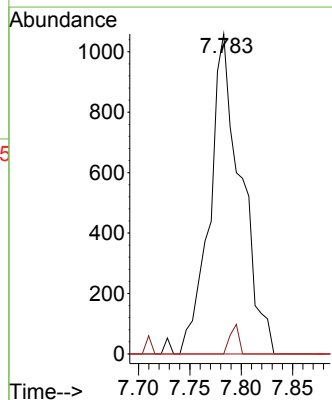
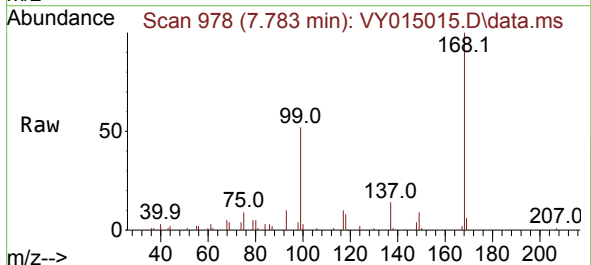
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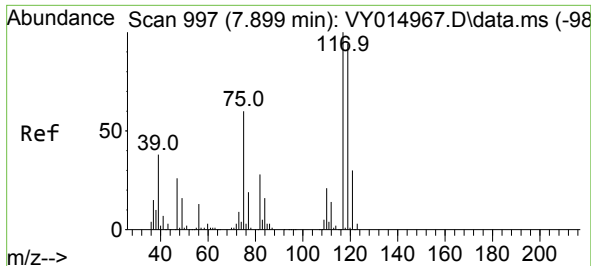
Tgt Ion:113 Resp: 7818
Ion Ratio Lower Upper
113 100
111 93.2 81.3 121.9
192 20.7 16.9 25.3



#36
1,1-Dichloropropene
Concen: 7.346 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Tgt Ion: 75 Resp: 2233
Ion Ratio Lower Upper
75 100
110 2.6 17.8 53.5#
77 0.0 24.4 36.6#

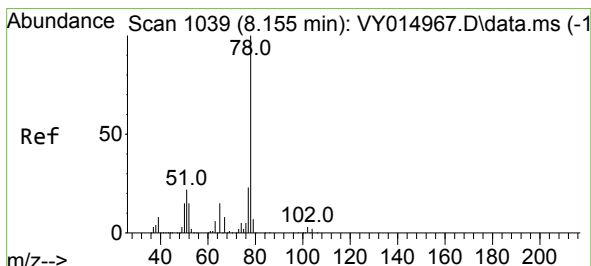
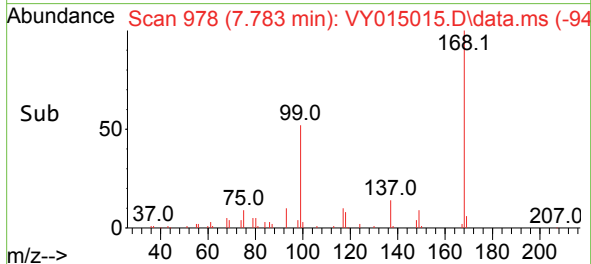
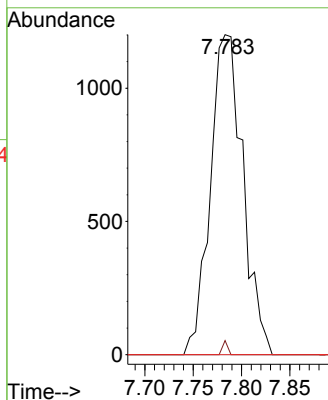
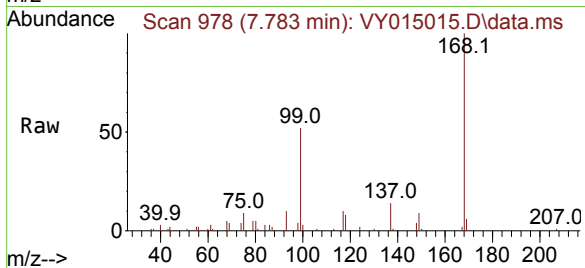




#38
Carbon Tetrachloride
Concen: 8.229 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

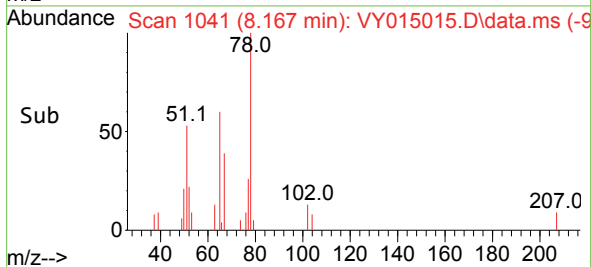
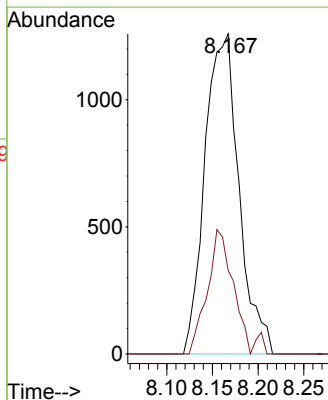
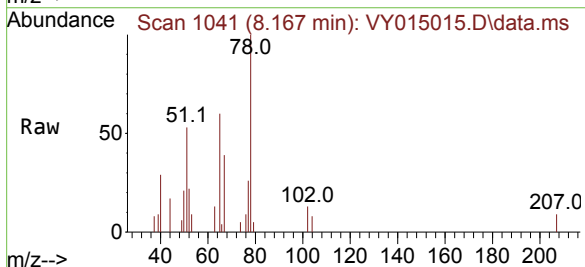
Instrument :
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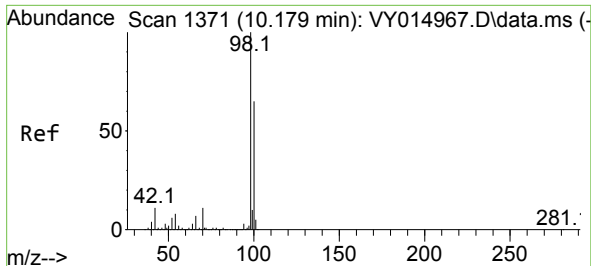
Tgt Ion:117 Resp: 2812
Ion Ratio Lower Upper
117 100
119 4.4 76.4 114.6#
121 0.0 25.8 38.6#



#40
Benzene
Concen: 3.635 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. 0.012 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Tgt Ion: 78 Resp: 3254
Ion Ratio Lower Upper
78 100
77 26.1 19.0 28.6

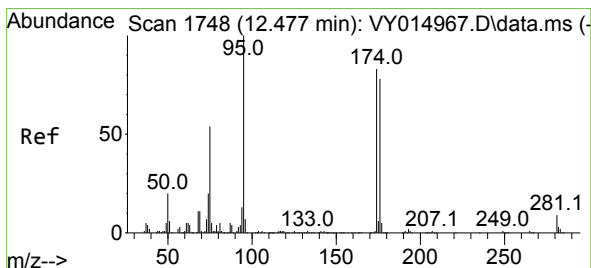
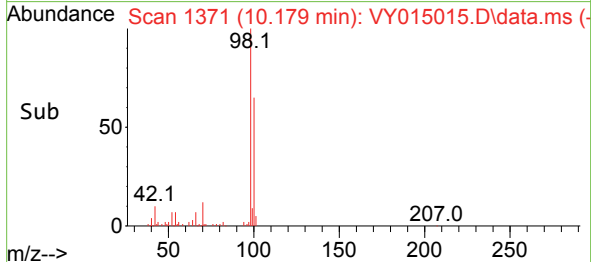
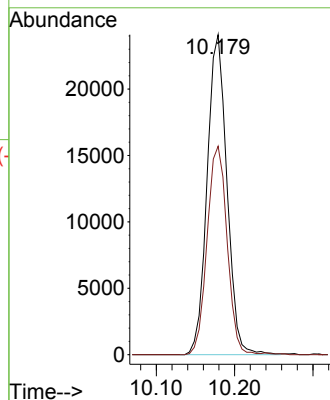
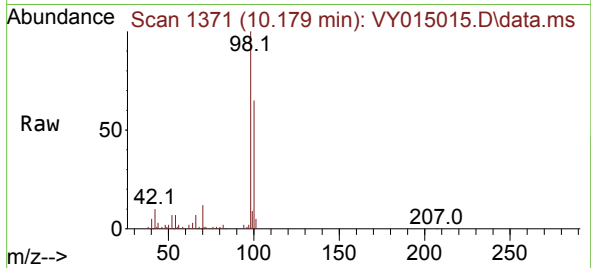




#50
Toluene-d8
Concen: 45.285 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

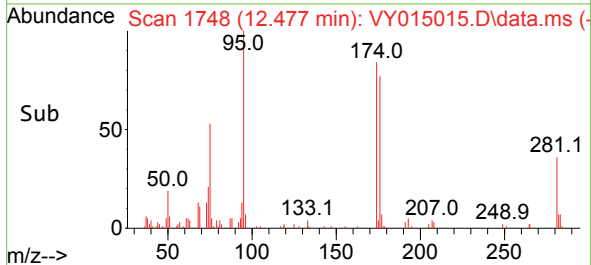
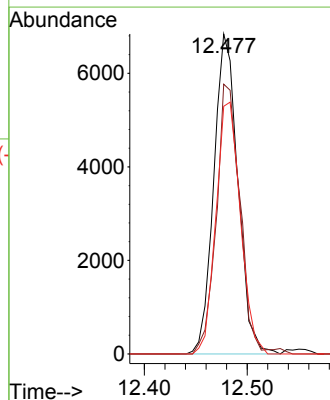
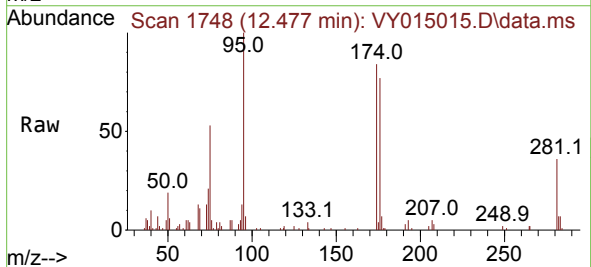
Instrument :
MSVOA_Y
ClientSampleId :
B-PP23A

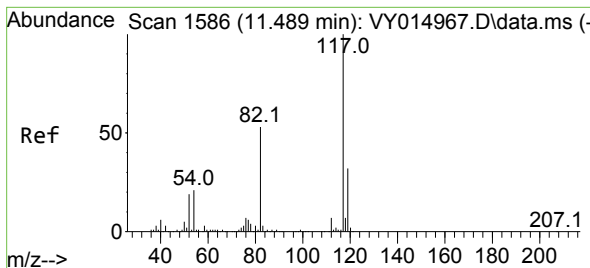
Tgt Ion: 98 Resp: 42203
Ion Ratio Lower Upper
98 100
100 65.7 50.1 75.1



#62
4-Bromofluorobenzene
Concen: 33.661 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Tgt Ion: 95 Resp: 11118
Ion Ratio Lower Upper
95 100
174 82.2 0.0 178.2
176 80.0 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: VY015015.D

Acq: 09 Aug 2023 19:04

Instrument :

MSVOA_Y

ClientSampleId :

B-PP23A

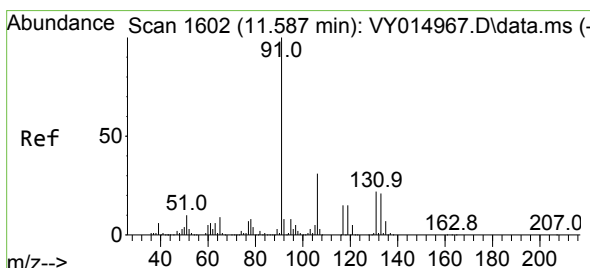
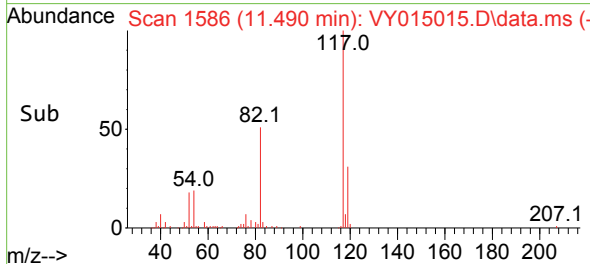
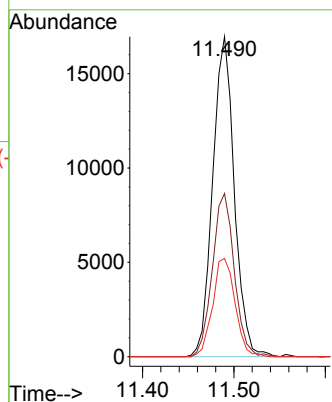
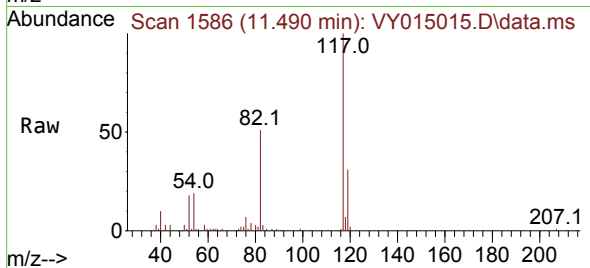
Tgt Ion:117 Resp: 27809

Ion Ratio Lower Upper

117 100

82 51.0 43.4 65.0

119 30.7 26.3 39.5



#67

Ethyl Benzene

Concen: 31.173 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.006 min

Lab File: VY015015.D

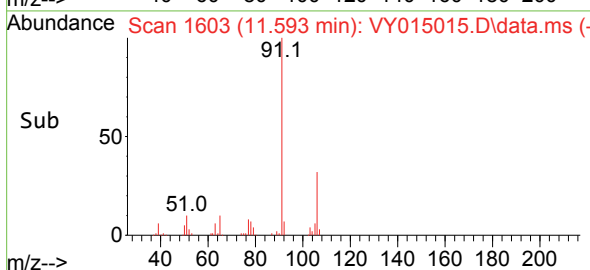
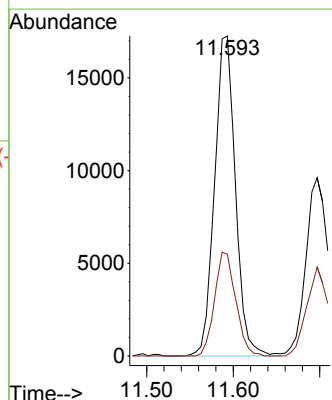
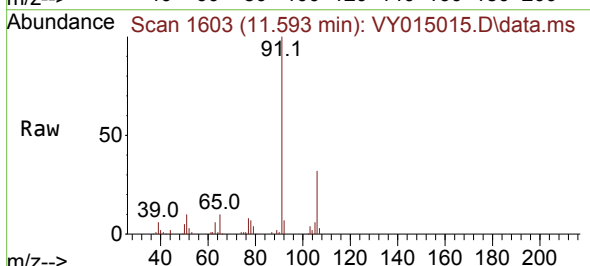
Acq: 09 Aug 2023 19:04

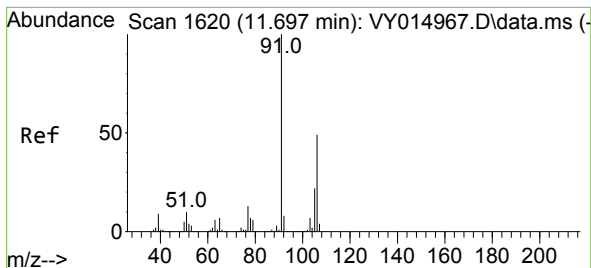
Tgt Ion: 91 Resp: 28868

Ion Ratio Lower Upper

91 100

106 31.8 24.6 36.8

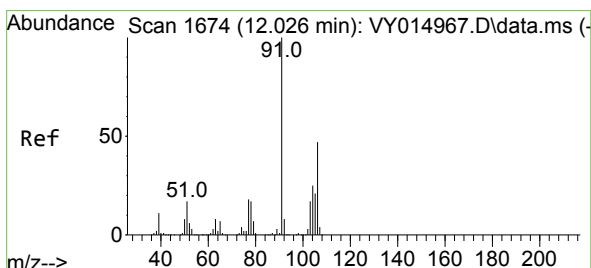
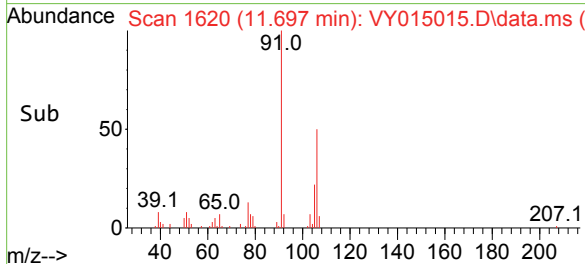
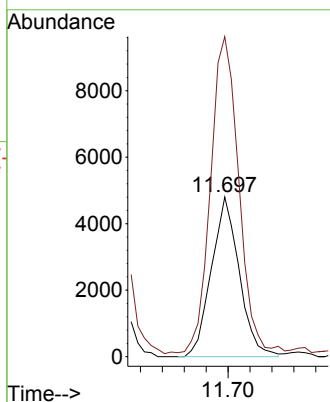
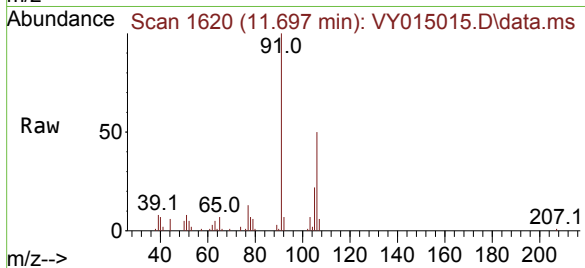




#68
m/p-Xylenes
Concen: 23.928 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

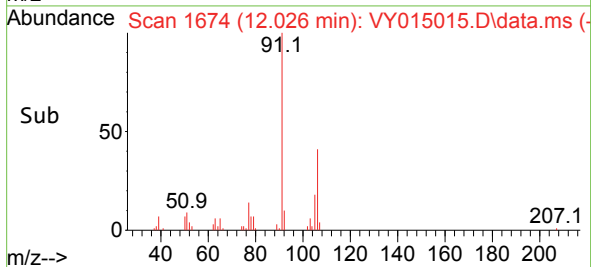
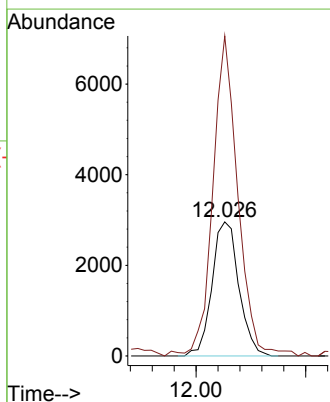
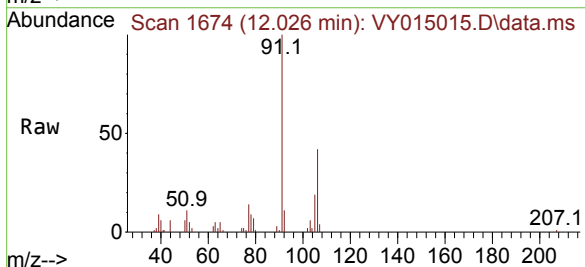
Instrument :
MSVOA_Y
ClientSampleId :
B-PP23A

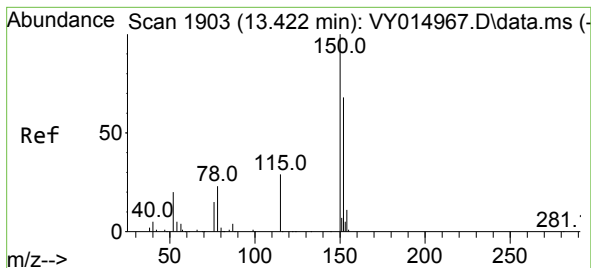
Tgt Ion:106 Resp: 8477
Ion Ratio Lower Upper
106 100
91 200.1 166.1 249.1



#69
o-Xylene
Concen: 14.528 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Tgt Ion:106 Resp: 5036
Ion Ratio Lower Upper
106 100
91 222.5 108.1 324.3

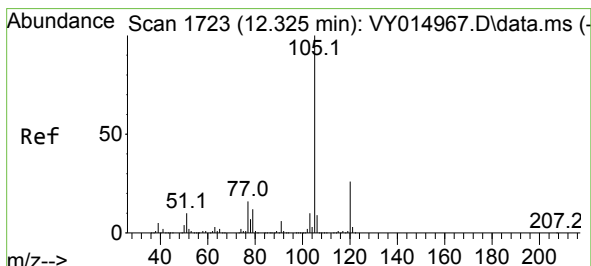
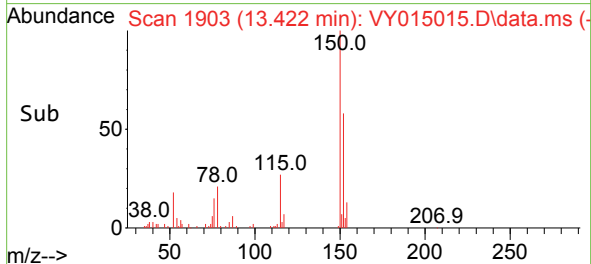
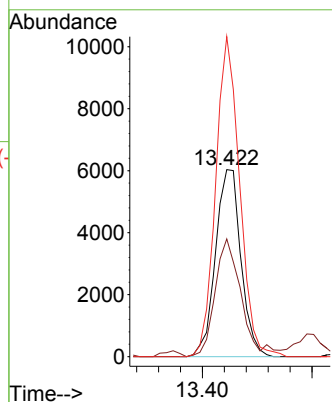
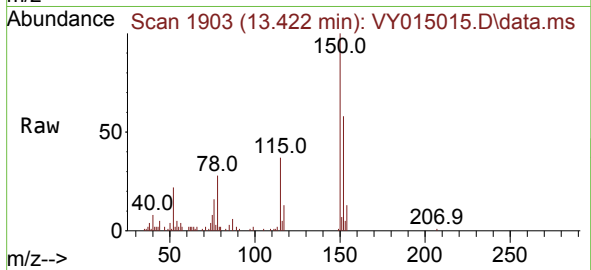




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

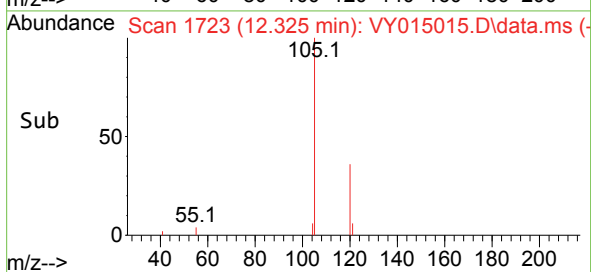
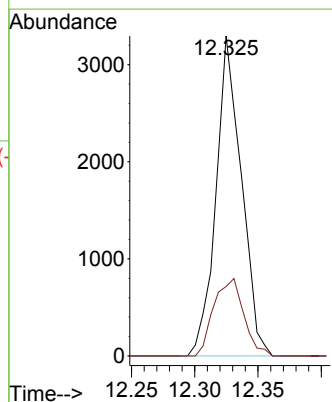
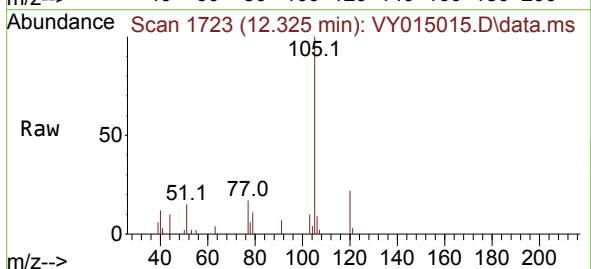
Instrument :
MSVOA_Y
ClientSampleId :
B-PP23A

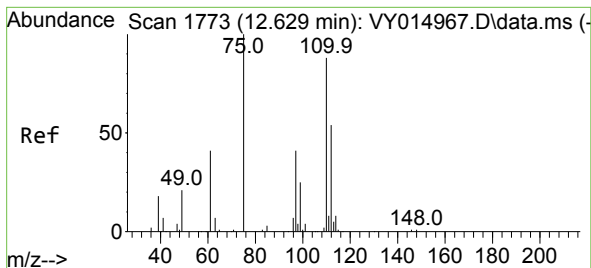
Tgt Ion:152 Resp: 9733
Ion Ratio Lower Upper
152 100
115 64.9 28.8 86.5
150 161.2 0.0 348.8



#73
Isopropylbenzene
Concen: 7.032 ug/l
RT: 12.325 min Scan# 1723
Delta R.T. 0.000 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Tgt Ion:105 Resp: 4601
Ion Ratio Lower Upper
105 100
120 28.5 13.3 39.9





#76

1,2,3-Trichloropropane

Concen: 2.049 ug/l

RT: 12.721 min Scan# 11

Delta R.T. 0.092 min

Lab File: VY015015.D

Acq: 09 Aug 2023 19:04

Instrument :

MSVOA_Y

ClientSampleId :

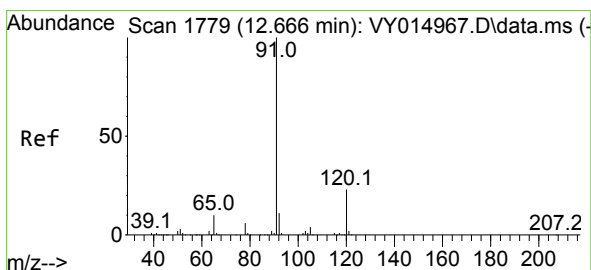
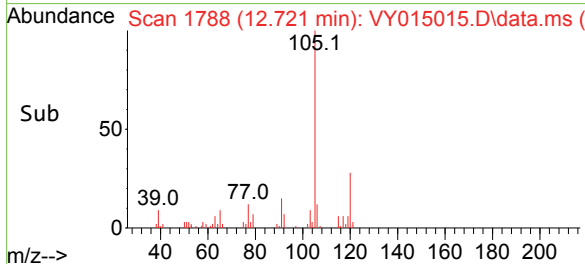
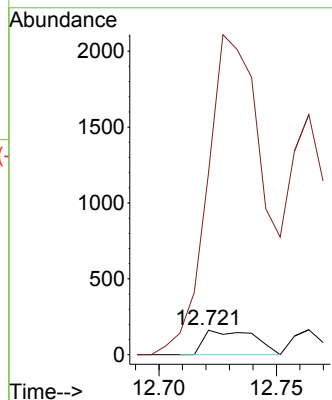
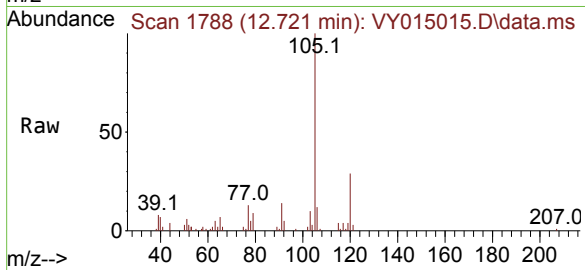
B-PP23A

Tgt Ion: 75 Resp: 239

Ion Ratio Lower Upper

75 100

77 1453.1 0.0 0.0#



#78

n-propylbenzene

Concen: 4.006 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. 0.006 min

Lab File: VY015015.D

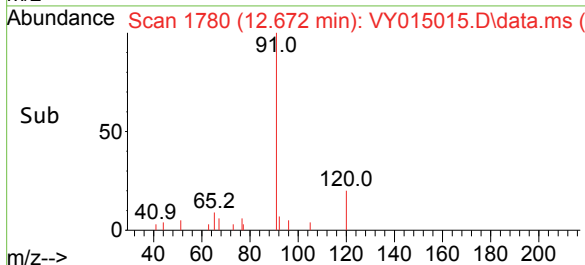
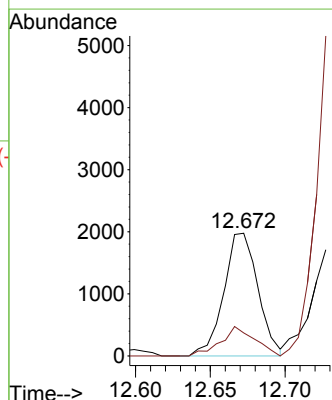
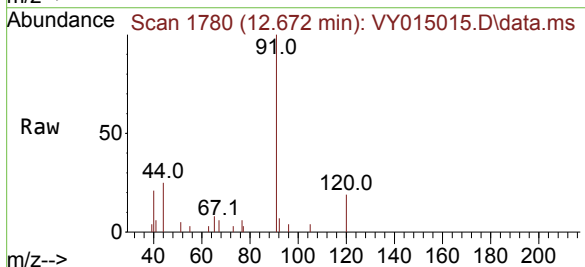
Acq: 09 Aug 2023 19:04

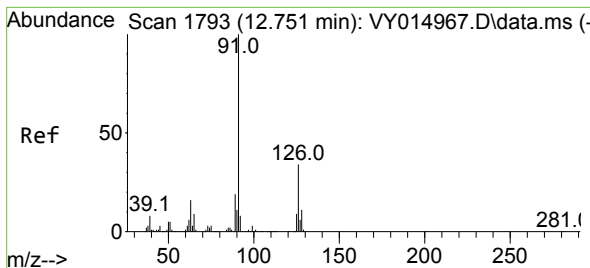
Tgt Ion: 91 Resp: 3135

Ion Ratio Lower Upper

91 100

120 23.7 11.5 34.4

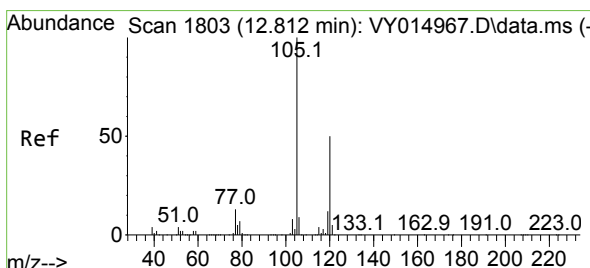
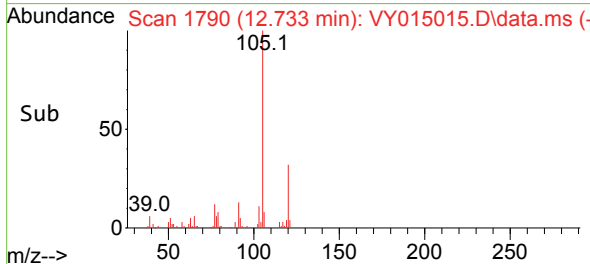
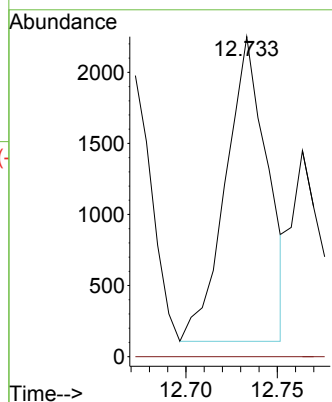
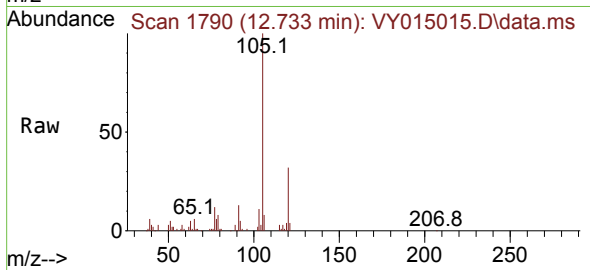




#79
2-Chlorotoluene
Concen: 7.619 ug/l
RT: 12.733 min Scan# 1790
Delta R.T. -0.018 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

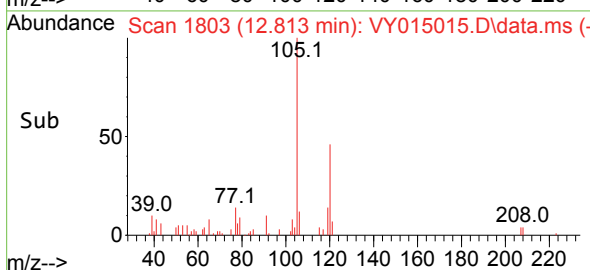
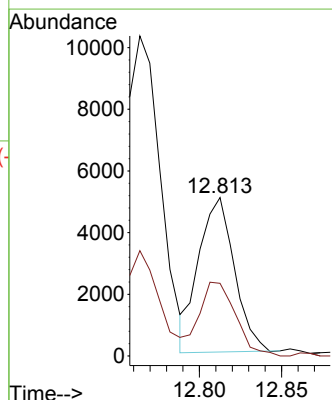
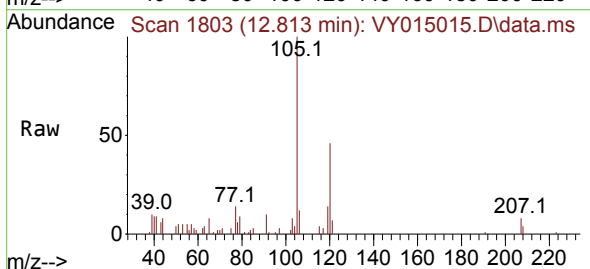
Instrument :
MSVOA_Y
ClientSampleId :
B-PP23A

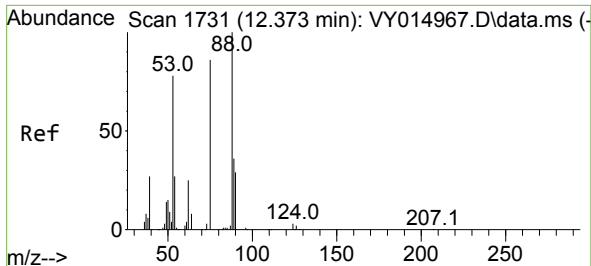
Tgt Ion: 91 Resp: 3398
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.7#



#80
1,3,5-Trimethylbenzene
Concen: 14.025 ug/l
RT: 12.813 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Tgt Ion: 105 Resp: 7562
Ion Ratio Lower Upper
105 100
120 49.2 23.9 71.7

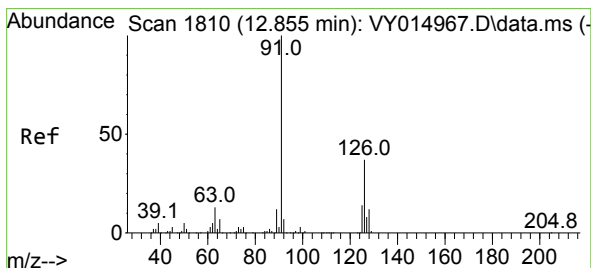
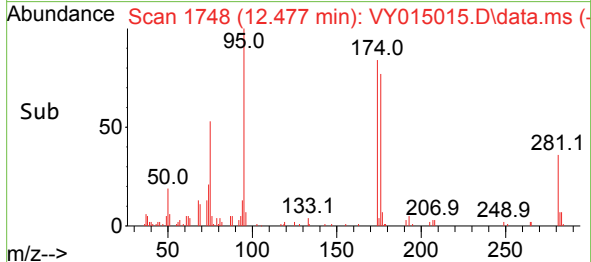
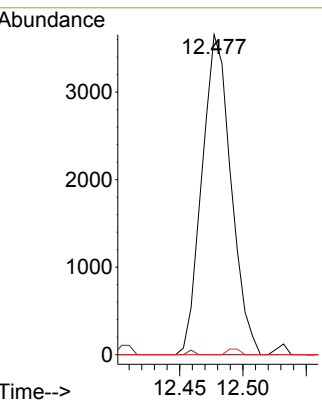
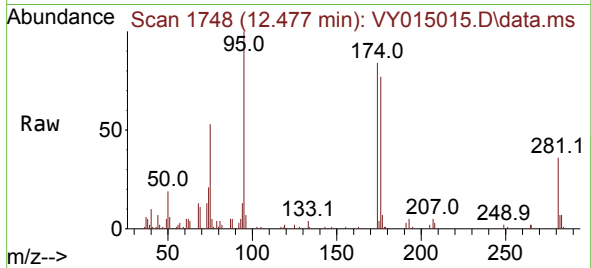




#81
trans-1,4-Dichloro-2-butene
Concen: 110.393 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

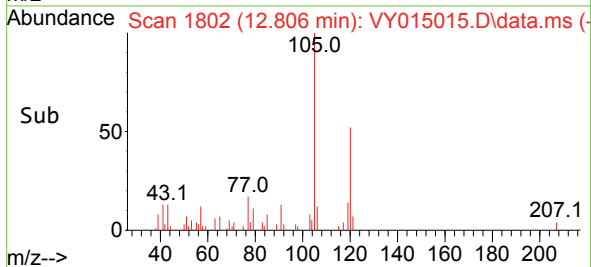
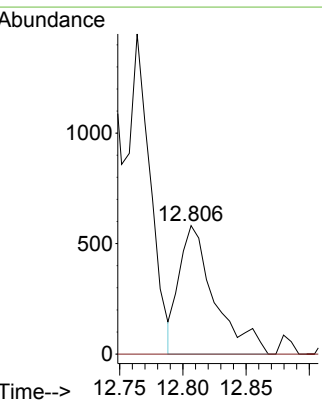
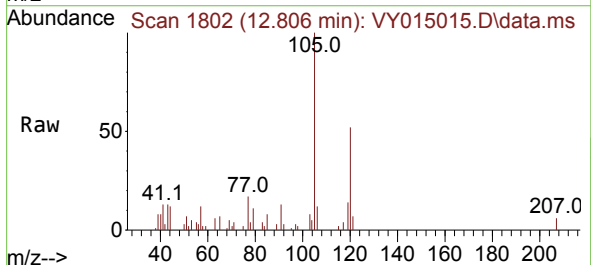
Instrument :
MSVOA_Y
ClientSampleId :
B-PP23A

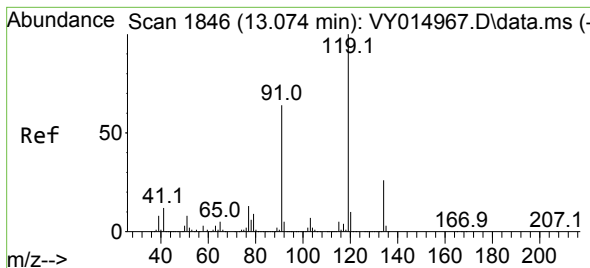
Tgt Ion: 75 Resp: 5844
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.8 37.4 56.0#



#82
4-Chlorotoluene
Concen: 2.453 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. -0.049 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Tgt Ion: 91 Resp: 1131
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#

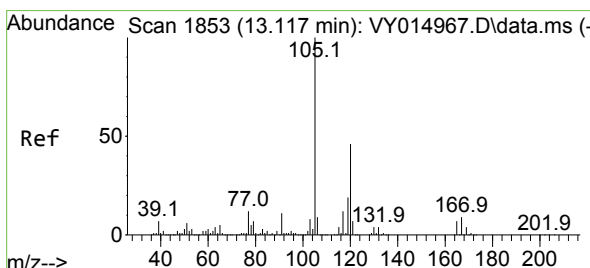
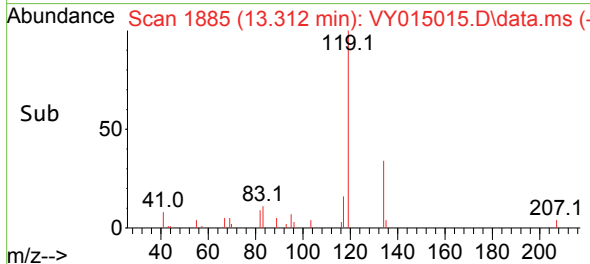
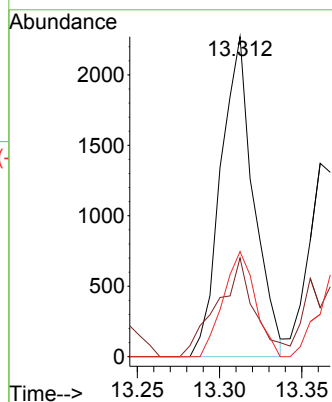
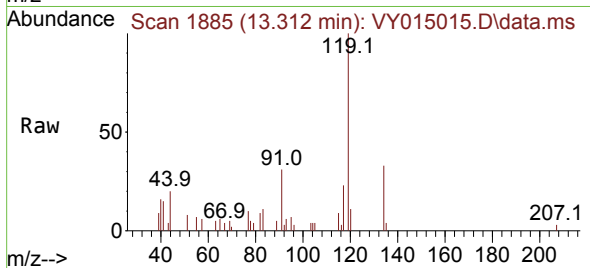




#83
 tert-Butylbenzene
 Concen: 6.417 ug/l
 RT: 13.312 min Scan# 1885
 Delta R.T. 0.238 min
 Lab File: VY015015.D
 Acq: 09 Aug 2023 19:04

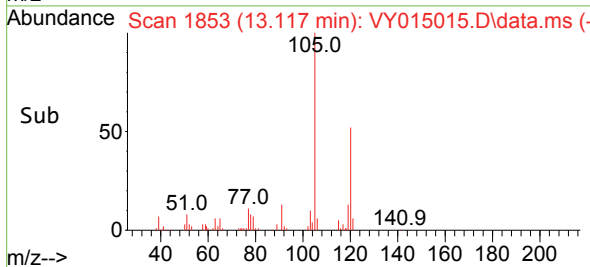
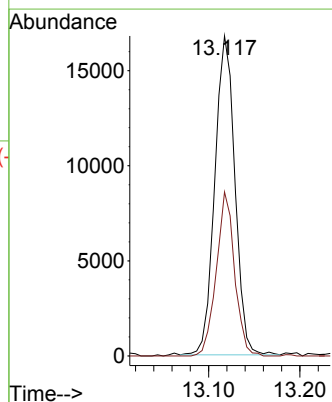
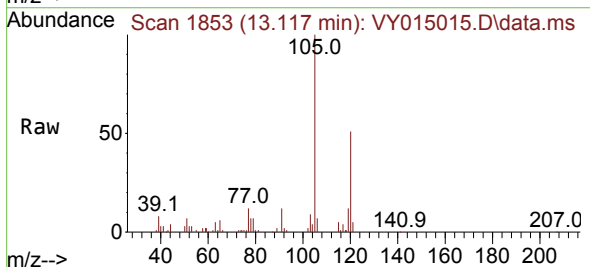
Instrument :
 MSVOA_Y
 ClientSampleId :
 B-PP23A

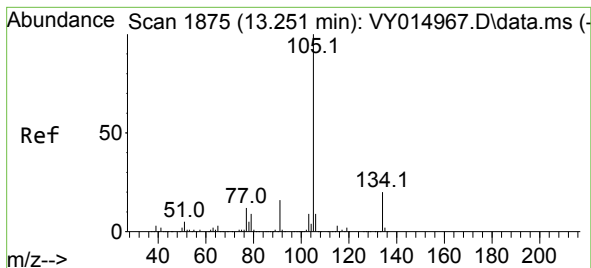
Tgt Ion:	119	Resp:	3165
Ion	Ratio	Lower	Upper
119	100		
91	35.6	32.9	98.6
134	32.0	13.0	38.9



#84
 1,2,4-Trimethylbenzene
 Concen: 47.415 ug/l
 RT: 13.117 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VY015015.D
 Acq: 09 Aug 2023 19:04

Tgt Ion:	105	Resp:	25613
Ion	Ratio	Lower	Upper
105	100		
120	46.9	22.2	66.6





#85

sec-Butylbenzene

Concen: 35.382 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.134 min

Lab File: VY015015.D

Acq: 09 Aug 2023 19:04

Instrument :

MSVOA_Y

ClientSampleId :

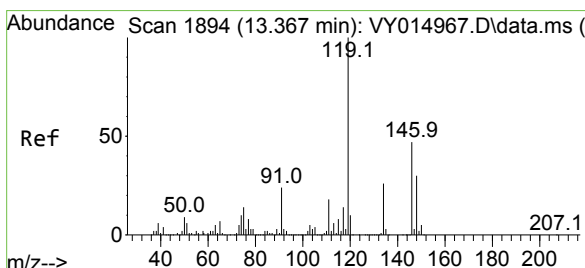
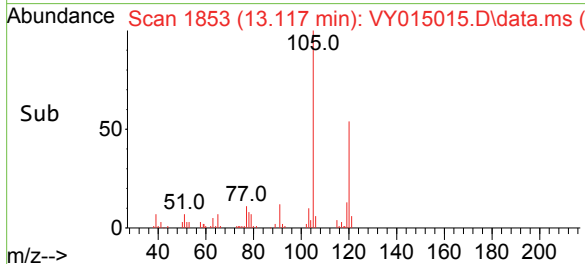
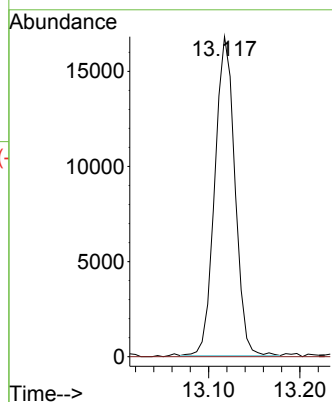
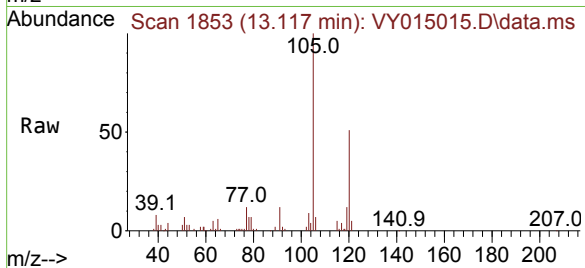
B-PP23A

Tgt Ion:105 Resp: 25613

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#



#86

p-Isopropyltoluene

Concen: 5.282 ug/l

RT: 13.312 min Scan# 1885

Delta R.T. -0.055 min

Lab File: VY015015.D

Acq: 09 Aug 2023 19:04

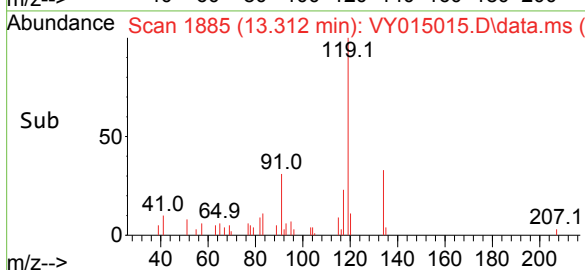
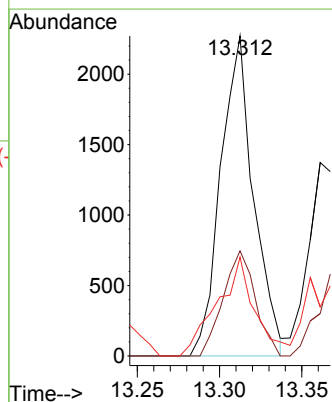
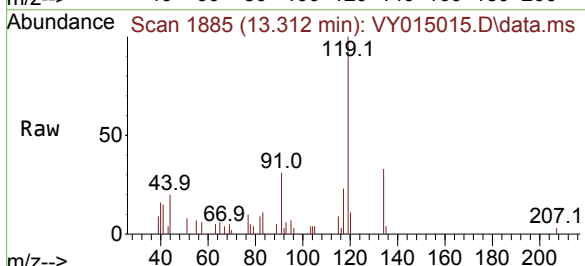
Tgt Ion:119 Resp: 3165

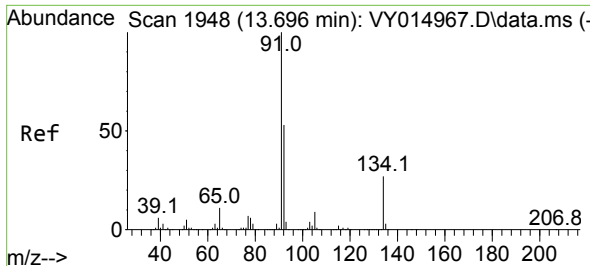
Ion Ratio Lower Upper

119 100

134 32.0 13.3 39.8

91 35.6 12.4 37.4

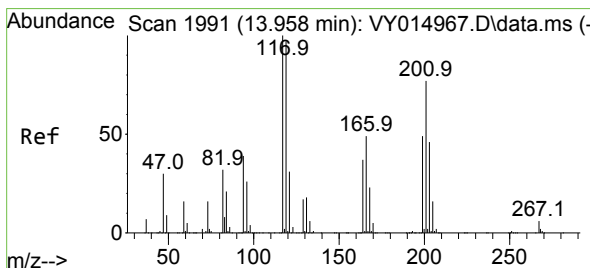
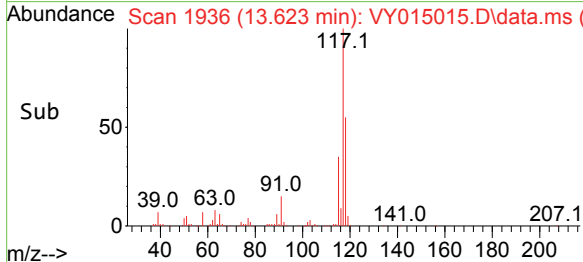
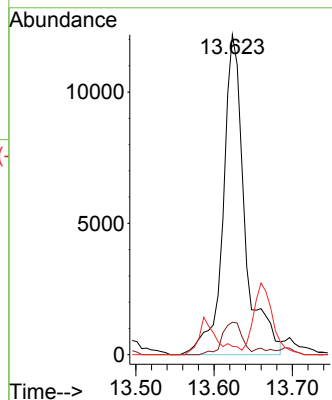
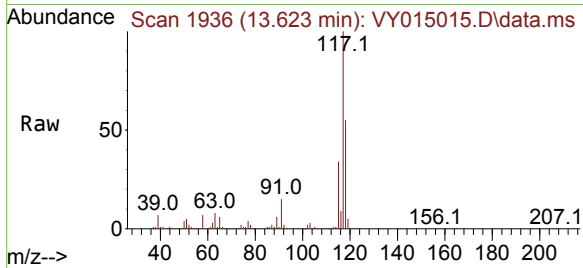




#89
n-Butylbenzene
Concen: 41.602 ug/l
RT: 13.623 min Scan# 1948
Delta R.T. -0.073 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

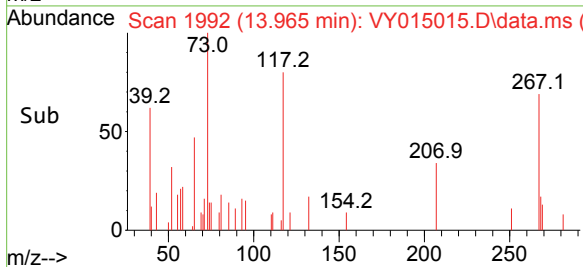
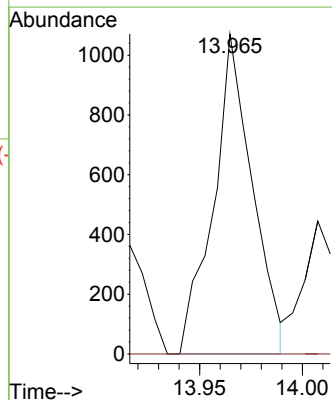
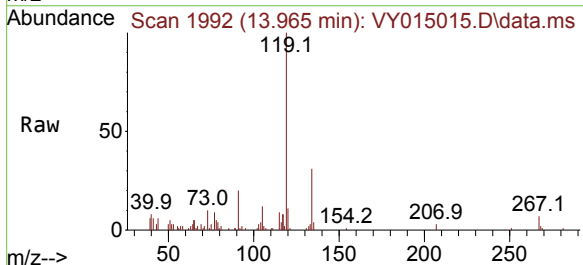
Instrument :
MSVOA_Y
ClientSampleId :
B-PP23A

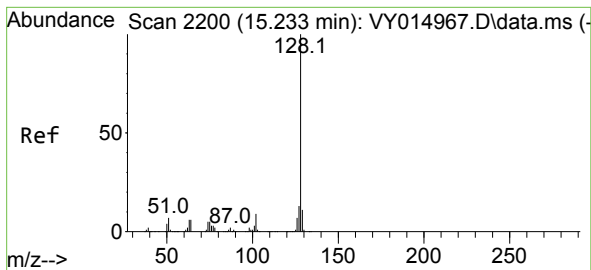
Tgt Ion: 91 Resp: 23422
Ion Ratio Lower Upper
91 100
92 9.4 25.4 76.0#
134 0.0 12.6 37.6#



#90
Hexachloroethane
Concen: 12.169 ug/l
RT: 13.965 min Scan# 1992
Delta R.T. 0.006 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

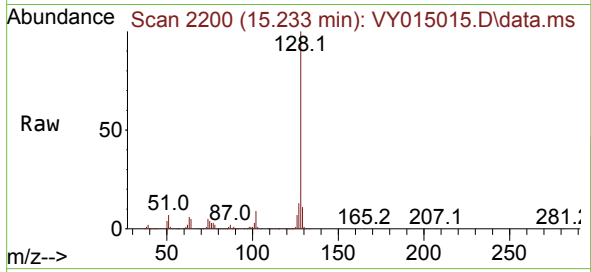
Tgt Ion: 117 Resp: 1416
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#





#95
Naphthalene
Concen: 738.179 ug/l
RT: 15.233 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY015015.D
Acq: 09 Aug 2023 19:04

Instrument :
MSVOA_Y
ClientSampleId :
B-PP23A



Tgt Ion:128 Resp: 318645
Ion Ratio Lower Upper
128 100
127 12.8 10.8 16.2
129 11.2 8.6 13.0

