

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081023\
 Data File : VY015026.D
 Acq On : 10 Aug 2023 14:41
 Operator : SY/MD
 Sample : 03952-01
 Misc : 5.88g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 11 01:56:10 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)

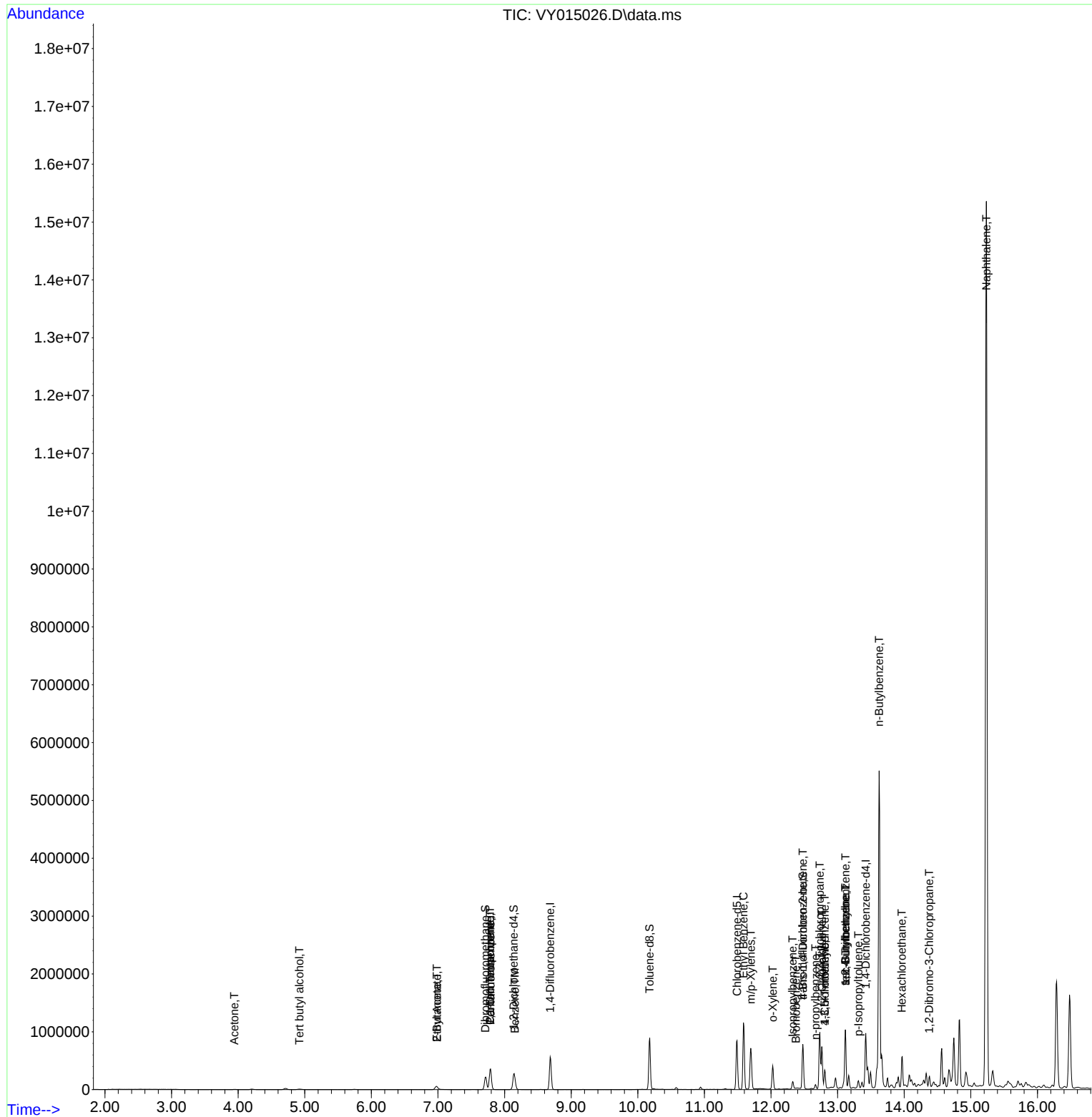
Internal Standards						
1) Pentafluorobenzene	7.789	168	288184	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	492725	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	472086	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	238272	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	180676	51.727	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.460%			
35) Dibromofluoromethane	7.710	113	159054	50.479	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.960%			
50) Toluene-d8	10.179	98	585009	48.779	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.560%			
62) 4-Bromofluorobenzene	12.477	95	232109	54.607	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 109.220%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.906	85	105	Below Cal	#	43
5) Bromomethane	2.656	94	1114	Below Cal	#	78
11) Tert butyl alcohol	4.918	59	10250	12.159	ug/l #	91
16) Acetone	3.942	43	6142	5.639	ug/l #	85
20) Methylene Chloride	4.704	84	15856	Below Cal		85
25) 2-Butanone	6.984	43	4145	2.657	ug/l #	77
31) Cyclohexane	7.783	56	5715	Below Cal	#	1
36) 1,1-Dichloropropene	7.783	75	21175	5.413	ug/l #	50
37) Ethyl Acetate	6.984	43	4145	1.335	ug/l #	11
38) Carbon Tetrachloride	7.783	117	28835	6.557	ug/l #	16
40) Benzene	8.155	78	84824	7.364	ug/l	99
67) Ethyl Benzene	11.587	91	807177	51.344	ug/l	98
68) m/p-Xylenes	11.697	106	221447	36.822	ug/l	95
69) o-Xylene	12.026	106	105175	17.872	ug/l	98
73) Isopropylbenzene	12.325	105	78839	4.922	ug/l	99
76) 1,2,3-Trichloropropane	12.733	75	5322	1.864	ug/l #	100
77) Bromobenzene	12.374	156	5370	1.382	ug/l #	1
78) n-propylbenzene	12.666	91	55790	2.912	ug/l	96
79) 2-Chlorotoluene	12.764	91	42380	3.882	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.806	105	148903	11.281	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.477	75	120524	92.999	ug/l #	11
82) 4-Chlorotoluene	12.806	91	15348	1.360	ug/l #	40
83) tert-Butylbenzene	13.117	119	68528	5.675	ug/l #	58
84) 1,2,4-Trimethylbenzene	13.117	105	549647	41.564	ug/l	99
85) sec-Butylbenzene	13.117	105	549647	31.016	ug/l #	56
86) p-Isopropyltoluene	13.312	119	62613	4.268	ug/l	97
89) n-Butylbenzene	13.623	91	553520	40.161	ug/l #	43
90) Hexachloroethane	13.965	117	33069	11.609	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.373	75	855	1.119	ug/l #	3
95) Naphthalene	15.233	128	12032065	1138.593	ug/l	97

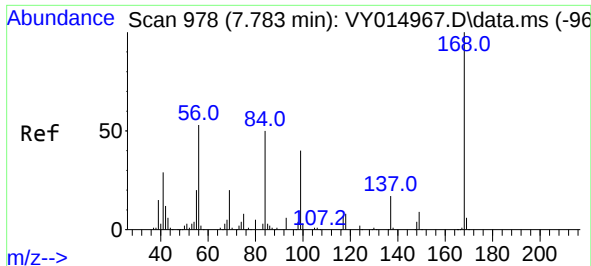
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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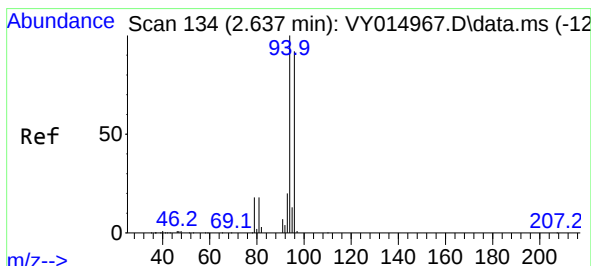
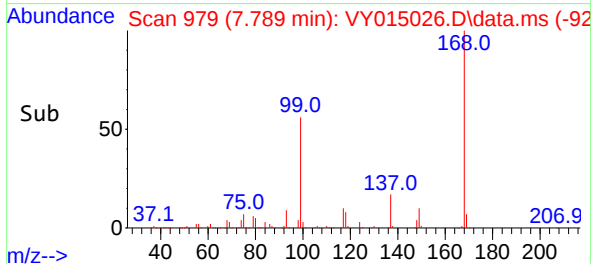
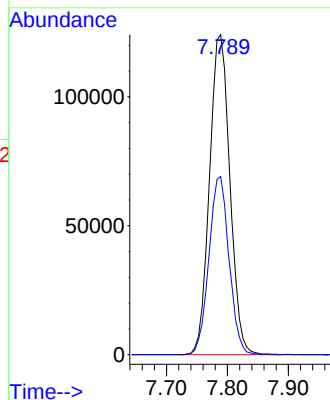
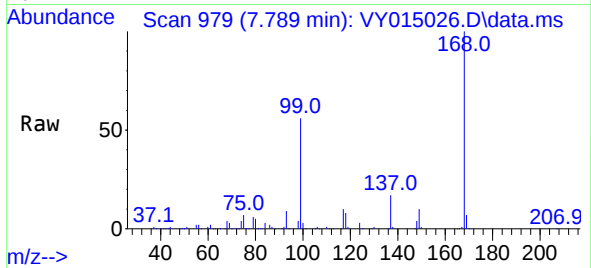




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

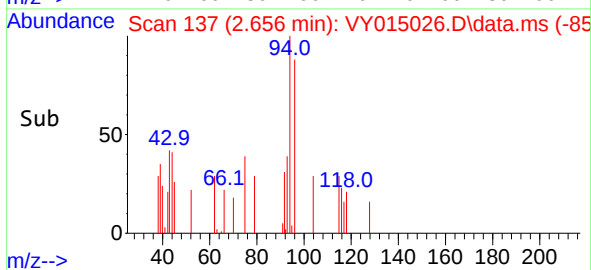
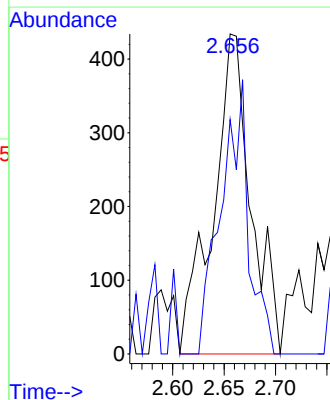
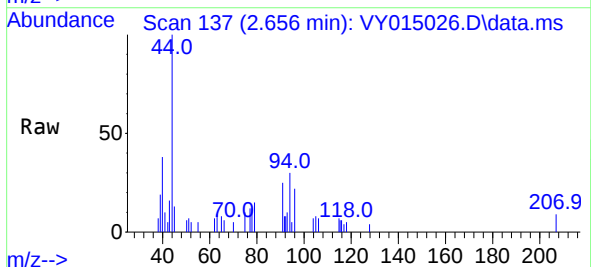
Instrument :
MSVOA_Y
ClientSampleId :

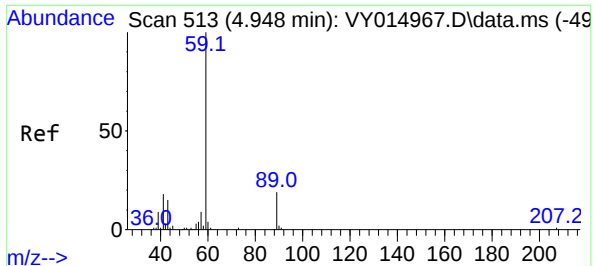
Tgt Ion:168 Resp: 288184
Ion Ratio Lower Upper
168 100
99 55.7 43.4 65.0



#5
Bromomethane
Concen: Below Cal
RT: 2.656 min Scan# 137
Delta R.T. 0.019 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

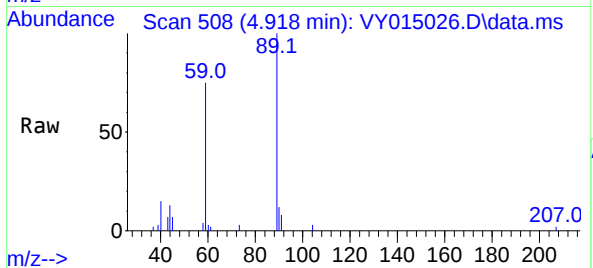
Tgt Ion: 94 Resp: 1114
Ion Ratio Lower Upper
94 100
96 73.3 75.8 113.6#



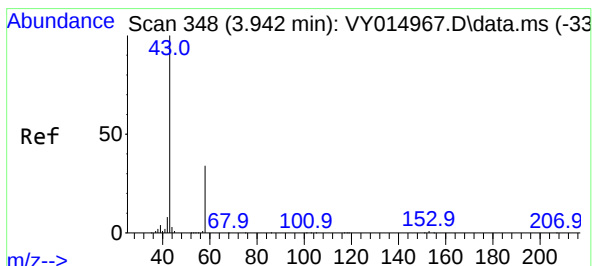
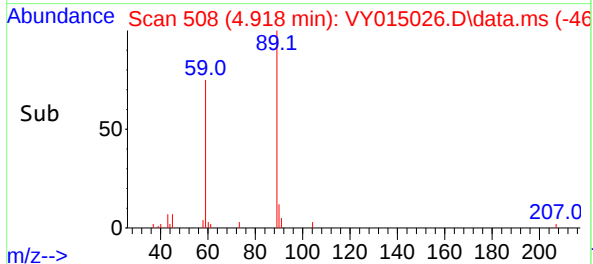
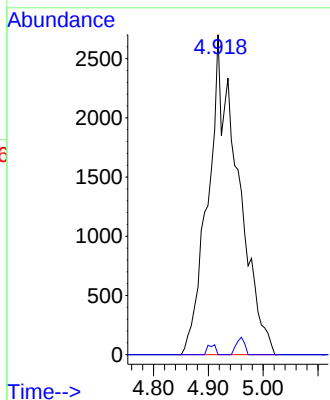


#11
Tert butyl alcohol
Concen: 12.159 ug/l
RT: 4.918 min Scan# 508
Delta R.T. -0.030 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Instrument :
MSVOA_Y
ClientSampleId :

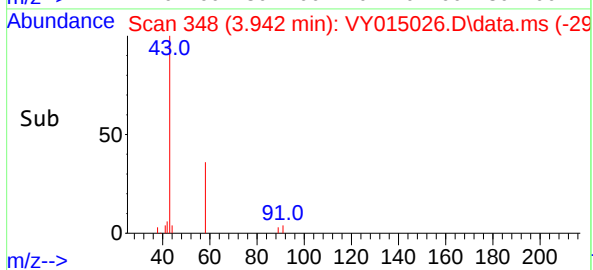
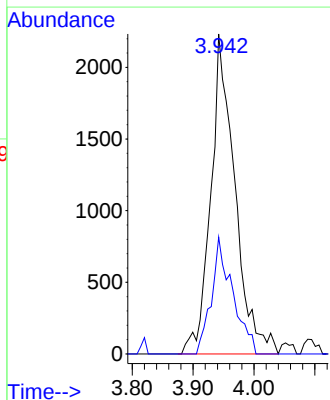
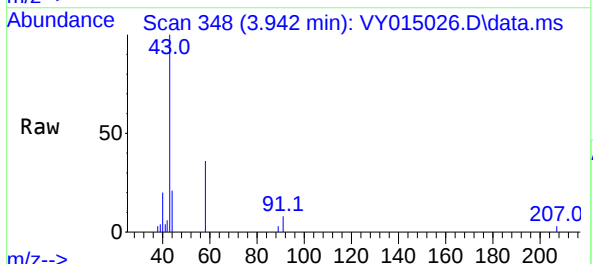


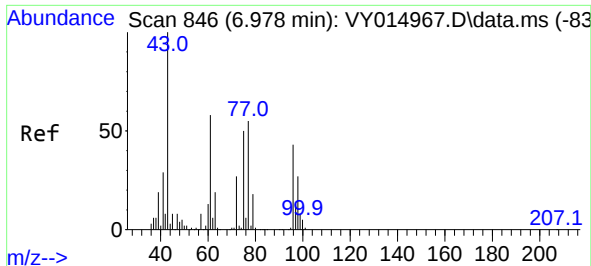
Tgt Ion: 59 Resp: 10250
Ion Ratio Lower Upper
59 100
57 0.8 3.0 4.4#



#16
Acetone
Concen: 5.639 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Tgt Ion: 43 Resp: 6142
Ion Ratio Lower Upper
43 100
58 36.5 22.7 34.1#

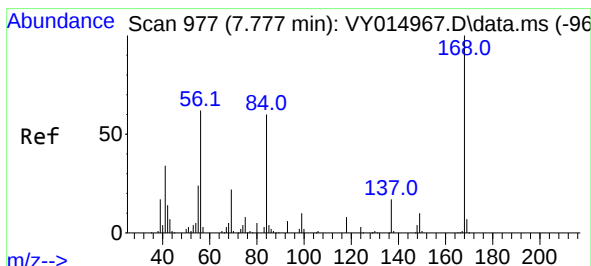
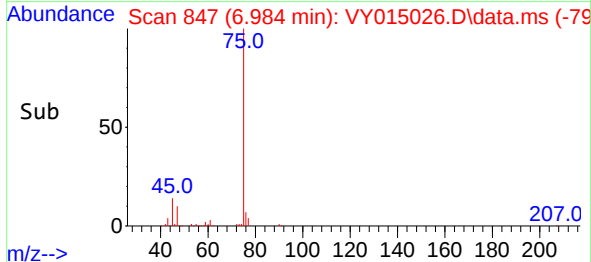
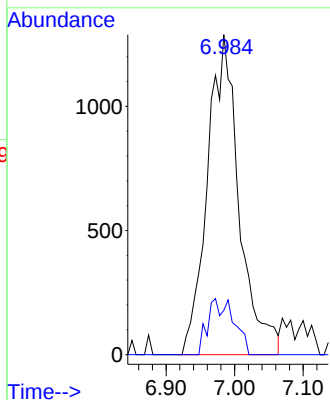
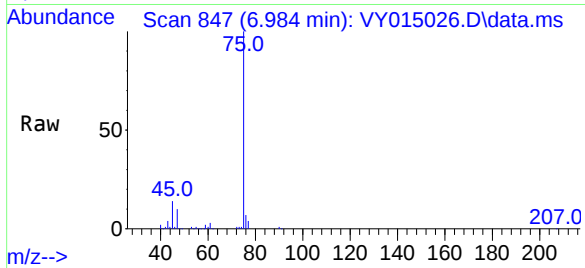




#25
2-Butanone
Concen: 2.657 ug/l
RT: 6.984 min Scan# 846
Delta R.T. 0.006 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

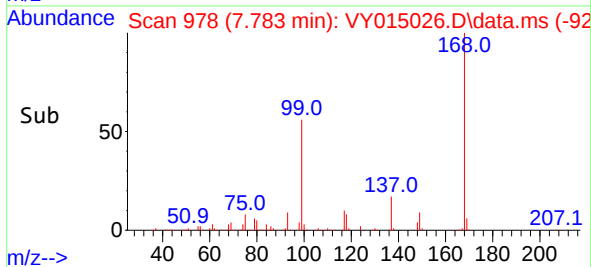
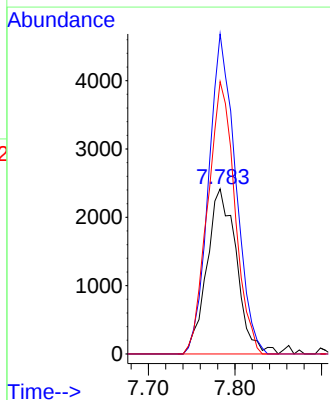
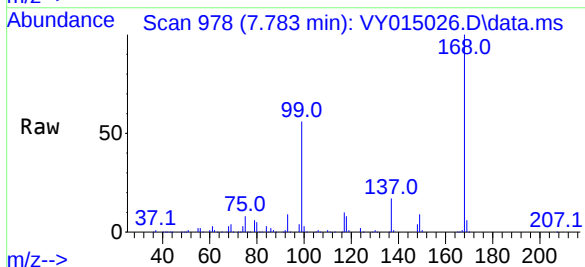
Instrument :
MSVOA_Y
ClientSampleId :

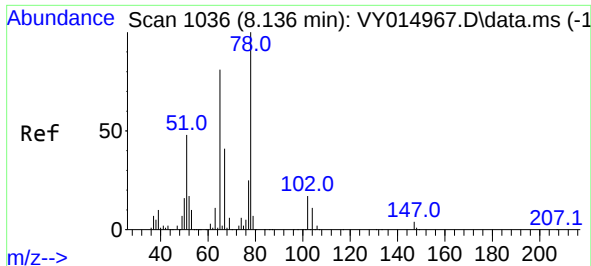
Tgt Ion: 43 Resp: 4145
Ion Ratio Lower Upper
43 100
72 13.8 20.5 30.7#



#31
Cyclohexane
Concen: Below Cal
RT: 7.783 min Scan# 978
Delta R.T. 0.006 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Tgt Ion: 56 Resp: 5715
Ion Ratio Lower Upper
56 100
69 193.9 27.8 41.6#
84 165.0 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 51.727 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015026.D

Acq: 10 Aug 2023 14:41

Instrument :

MSVOA_Y

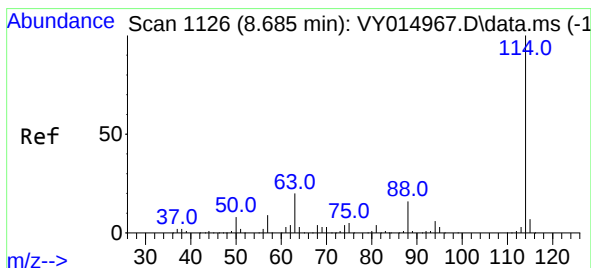
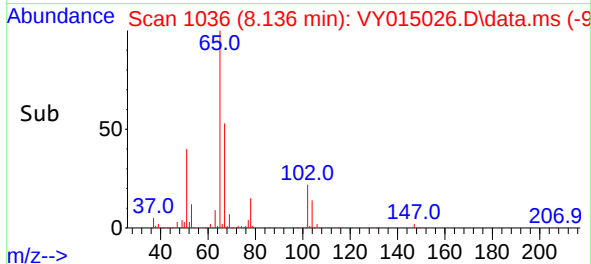
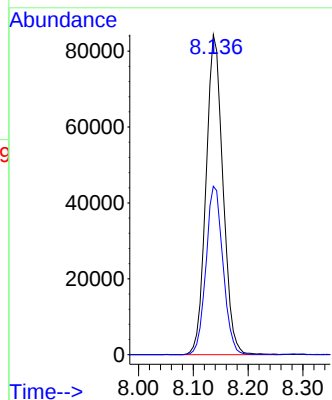
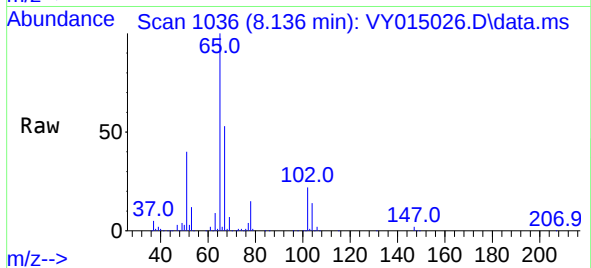
ClientSampleId :

Tgt Ion: 65 Resp: 180676

Ion Ratio Lower Upper

65 100

67 52.8 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: VY015026.D

Acq: 10 Aug 2023 14:41

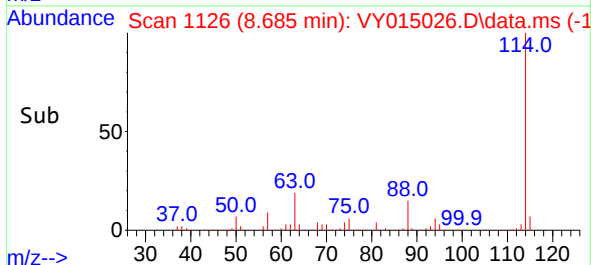
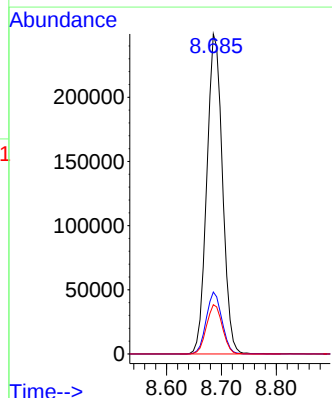
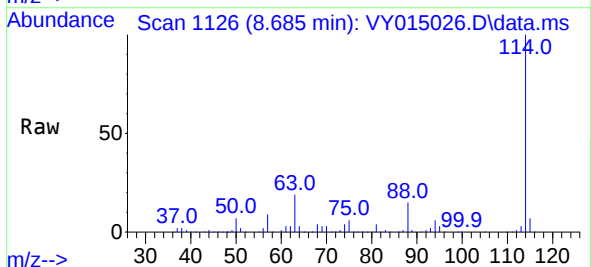
Tgt Ion: 114 Resp: 492725

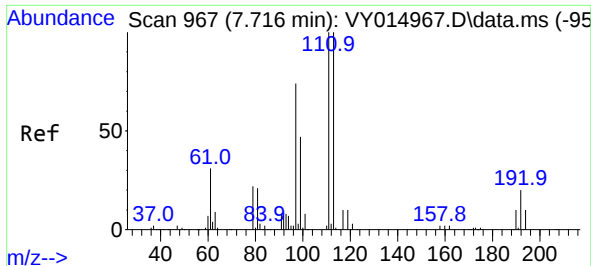
Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.4

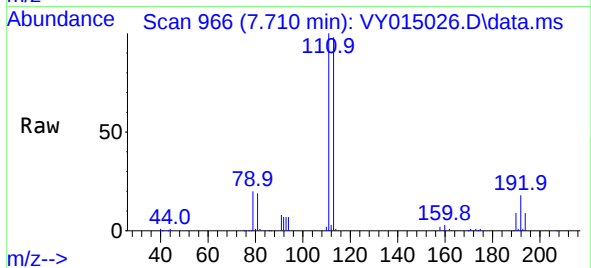
88 15.4 0.0 30.6



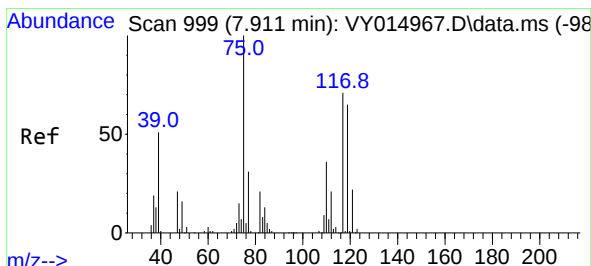
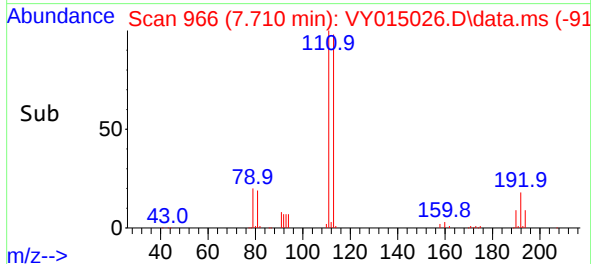
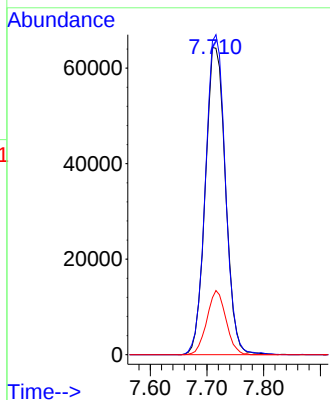


#35
Dibromofluoromethane
Concen: 50.479 ug/l
RT: 7.710 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Instrument :
MSVOA_Y
ClientSampleId :

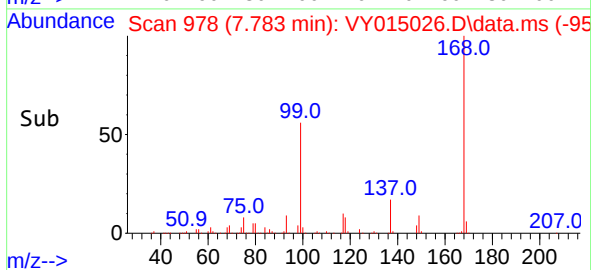
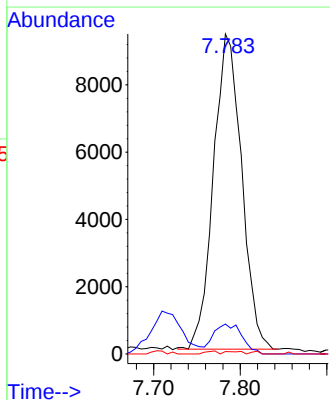
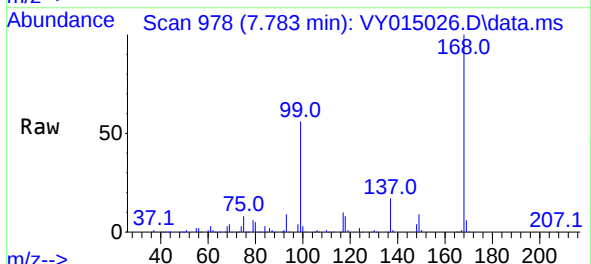


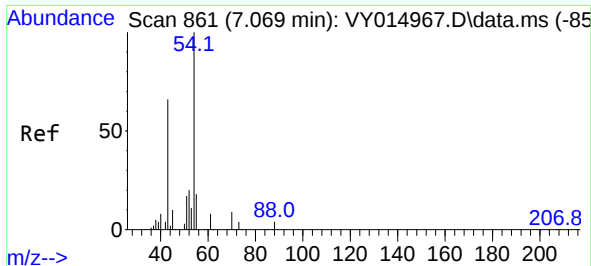
Tgt Ion:113 Resp: 159054
Ion Ratio Lower Upper
113 100
111 102.6 81.3 121.9
192 19.8 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.413 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Tgt Ion: 75 Resp: 21175
Ion Ratio Lower Upper
75 100
110 9.6 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.335 ug/l

RT: 6.984 min Scan# 84

Delta R.T. -0.085 min

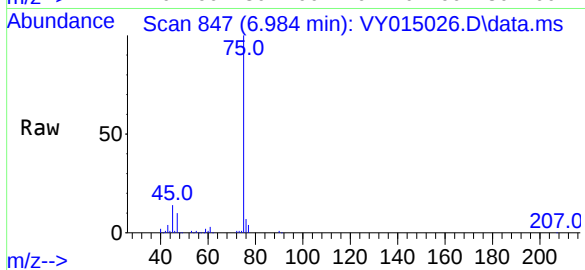
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Acq: 10 Aug 2023 14:41

Instrument :

MSVOA_Y

ClientSampleId :



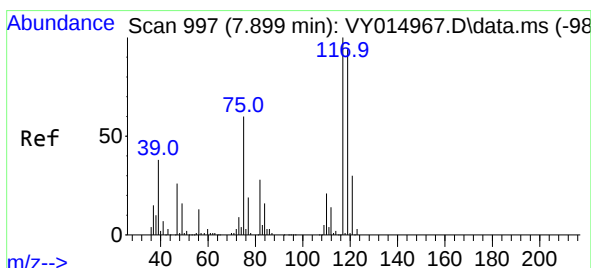
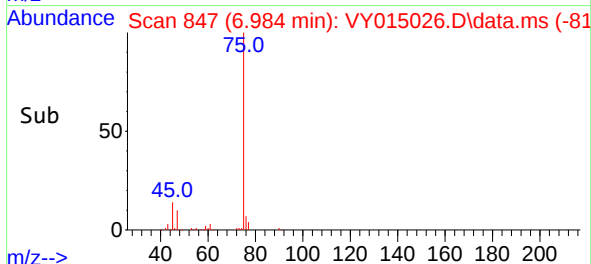
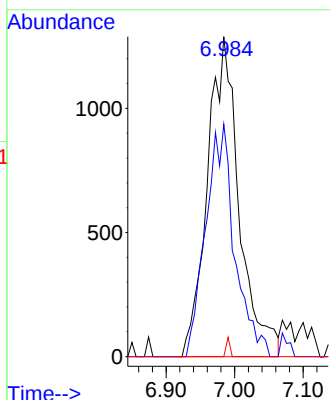
Tgt Ion: 43 Resp: 4145

Ion Ratio Lower Upper

43 100

61 66.3 10.1 15.1#

70 0.7 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 6.557 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY015026.D

Acq: 10 Aug 2023 14:41

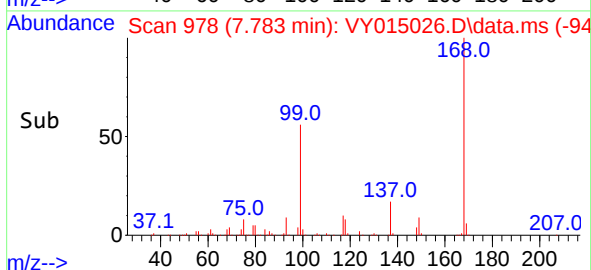
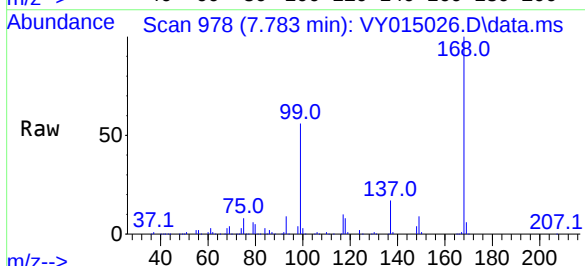
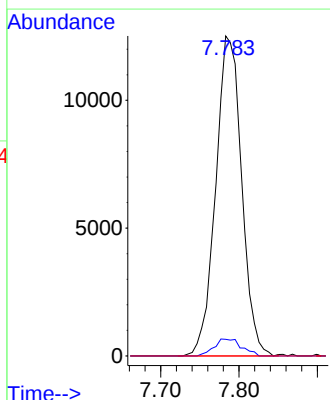
Tgt Ion: 117 Resp: 28835

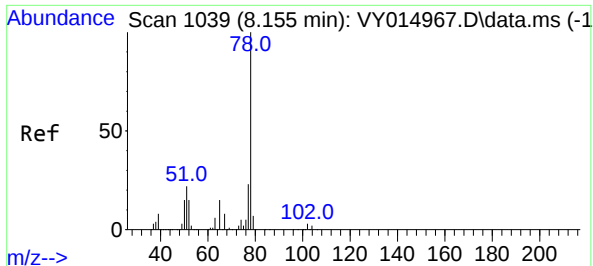
Ion Ratio Lower Upper

117 100

119 5.2 76.4 114.6#

121 0.0 25.8 38.6#

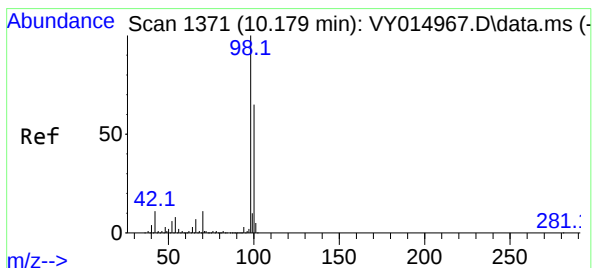
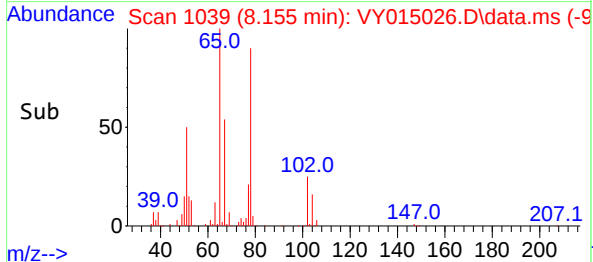
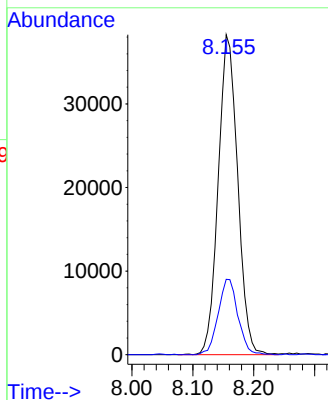
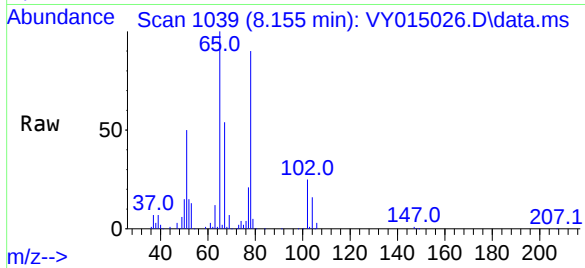




#40
Benzene
Concen: 7.364 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

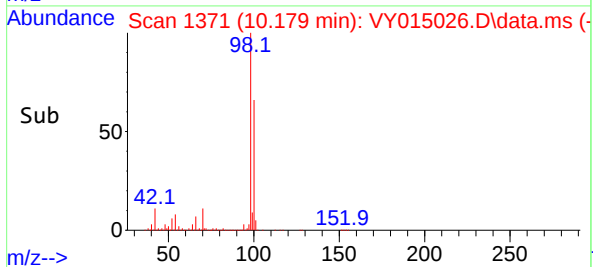
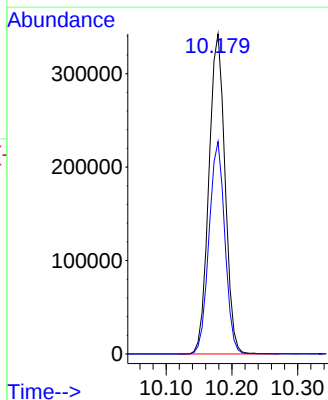
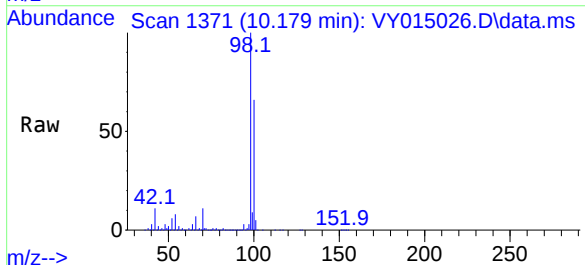
Instrument :
MSVOA_Y
ClientSampleId :

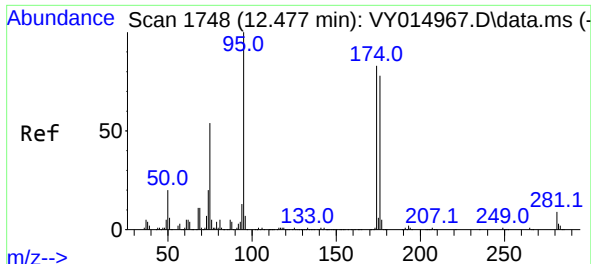
Tgt Ion: 78 Resp: 84824
Ion Ratio Lower Upper
78 100
77 23.5 19.0 28.6



#50
Toluene-d8
Concen: 48.779 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

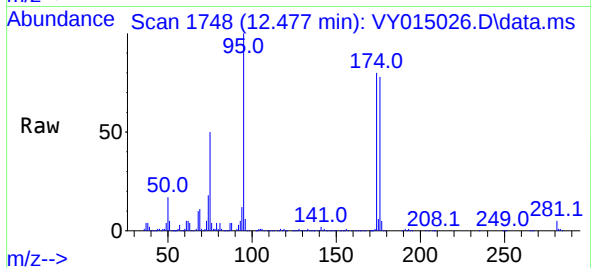
Tgt Ion: 98 Resp: 585009
Ion Ratio Lower Upper
98 100
100 65.2 50.1 75.1



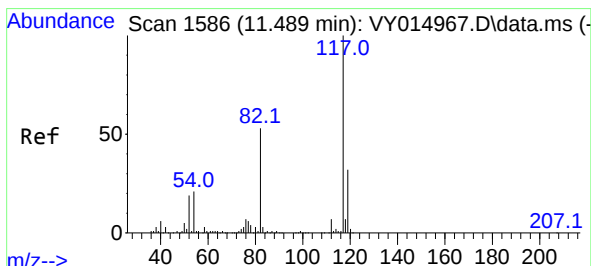
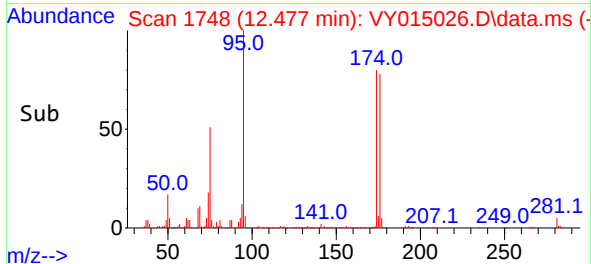
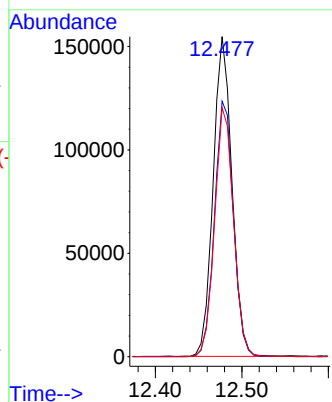


#62
4-Bromofluorobenzene
Concen: 54.607 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Instrument :
MSVOA_Y
ClientSampleId :

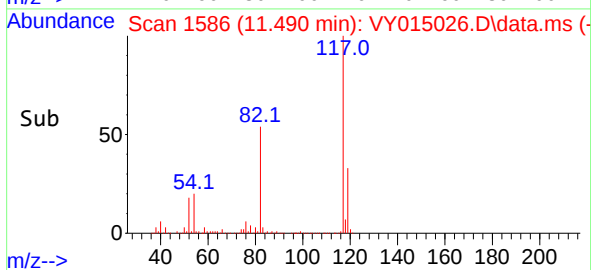
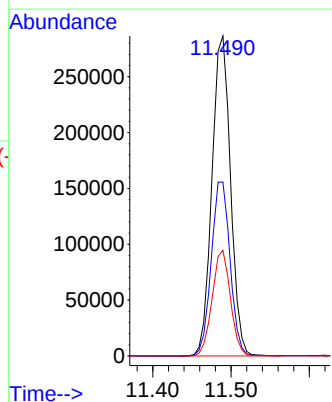
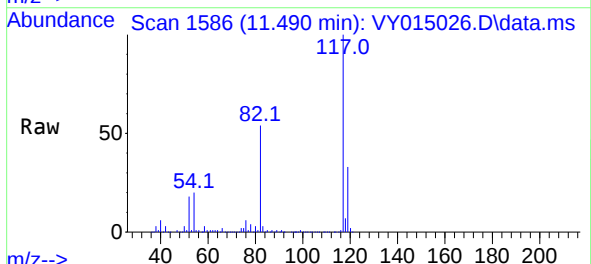


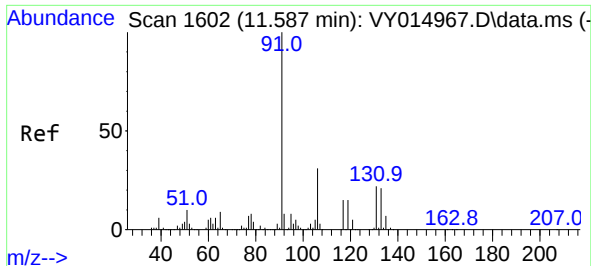
Tgt Ion: 95 Resp: 232109
Ion Ratio Lower Upper
95 100
174 81.2 0.0 178.2
176 78.4 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Tgt Ion: 117 Resp: 472086
Ion Ratio Lower Upper
117 100
82 54.4 43.4 65.0
119 33.0 26.3 39.5





#67

Ethyl Benzene

Concen: 51.344 ug/l

RT: 11.587 min Scan# 1602

Delta R.T. 0.000 min

Lab File: VY015026.D

Acq: 10 Aug 2023 14:41

Instrument :

MSVOA_Y

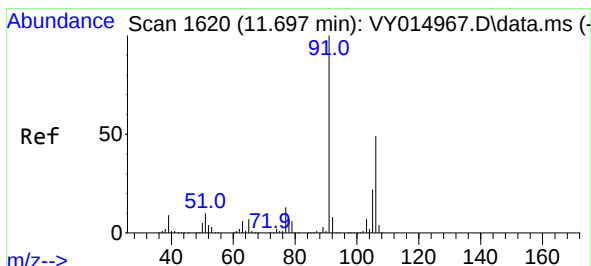
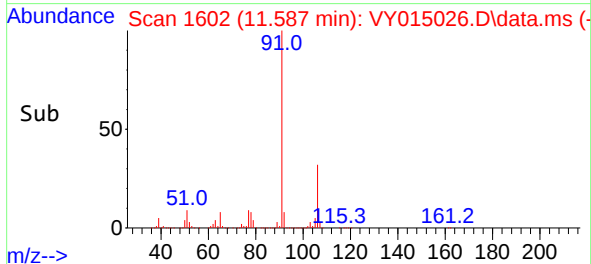
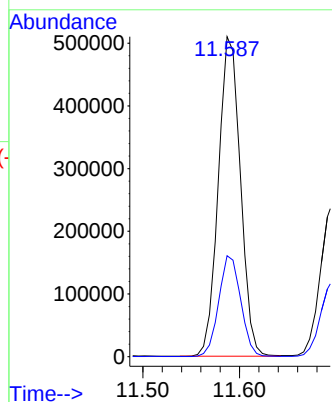
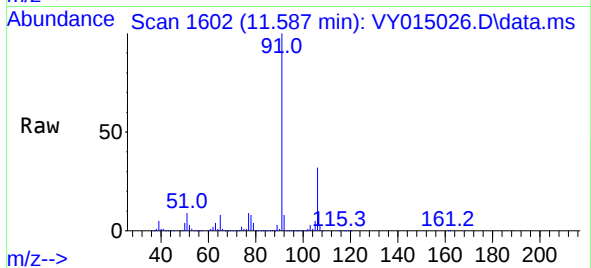
ClientSampleId :

Tgt Ion: 91 Resp: 807177

Ion Ratio Lower Upper

91 100

106 31.6 24.6 36.8



#68

m/p-Xylenes

Concen: 36.822 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VY015026.D

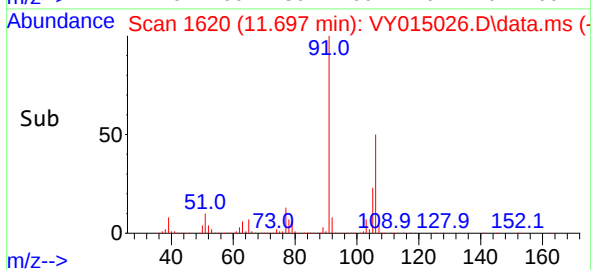
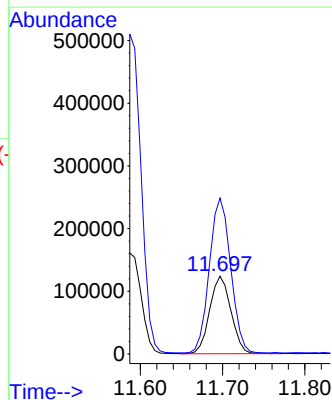
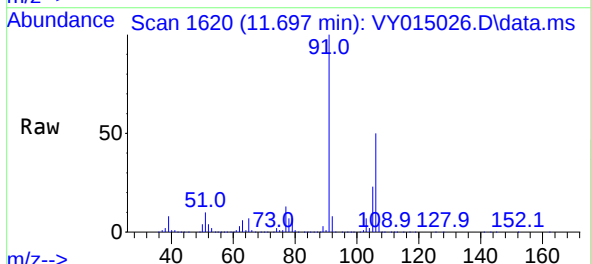
Acq: 10 Aug 2023 14:41

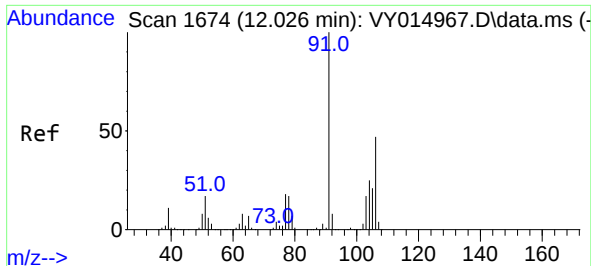
Tgt Ion: 106 Resp: 221447

Ion Ratio Lower Upper

106 100

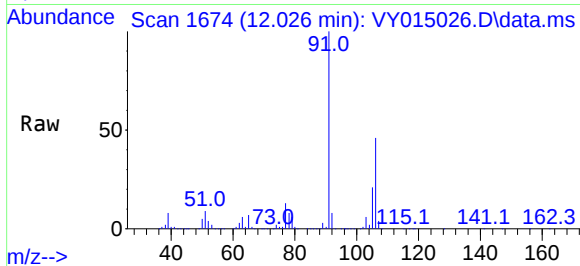
91 200.1 166.1 249.1



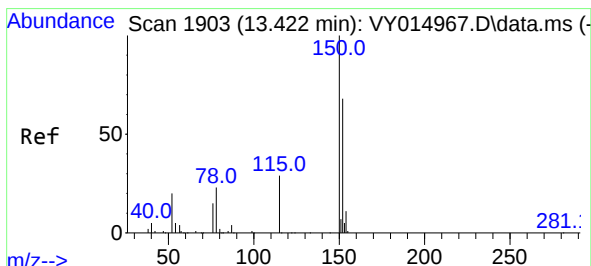
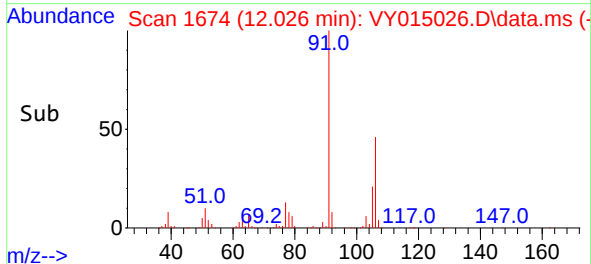
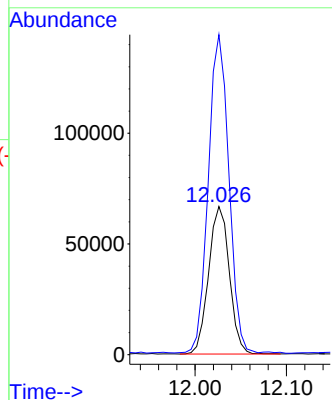


#69
o-Xylene
Concen: 17.872 ug/l
RT: 12.026 min Scan# 105175
Delta R.T. 0.000 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Instrument :
MSVOA_Y
ClientSampleId :

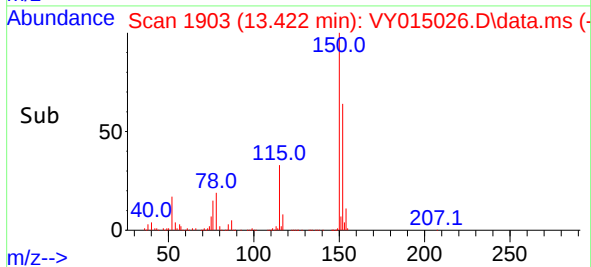
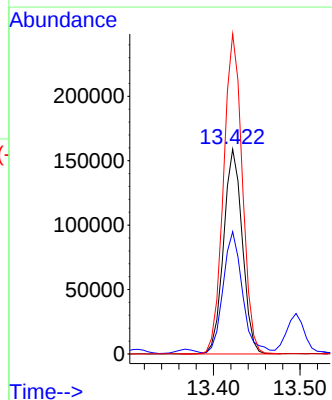
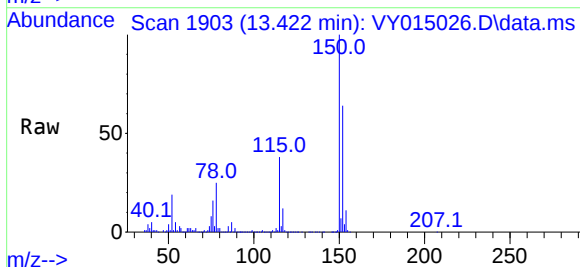


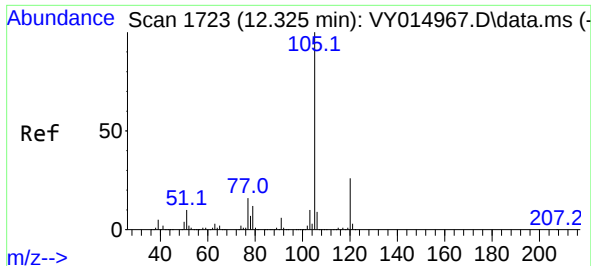
Tgt Ion:106 Resp: 105175
Ion Ratio Lower Upper
106 100
91 212.7 108.1 324.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Tgt Ion:152 Resp: 238272
Ion Ratio Lower Upper
152 100
115 60.8 28.8 86.5
150 157.0 0.0 348.8

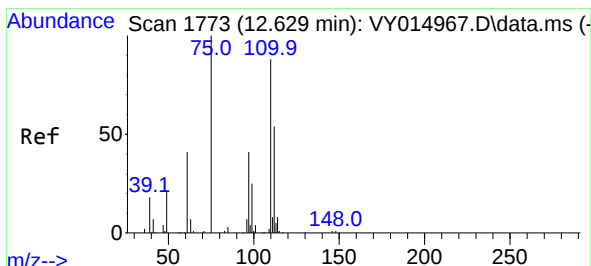
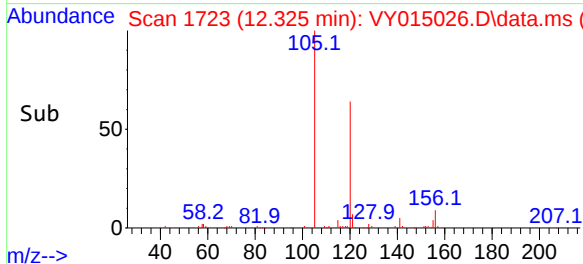
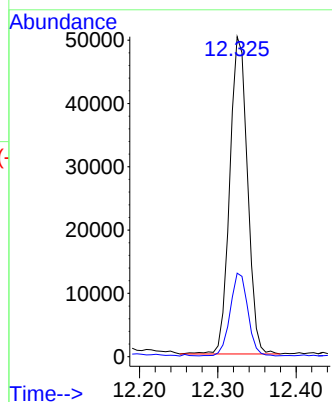
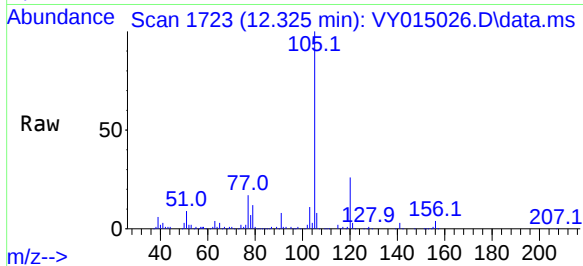




#73
Isopropylbenzene
Concen: 4.922 ug/l
RT: 12.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

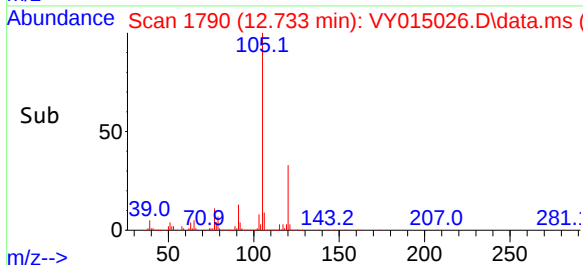
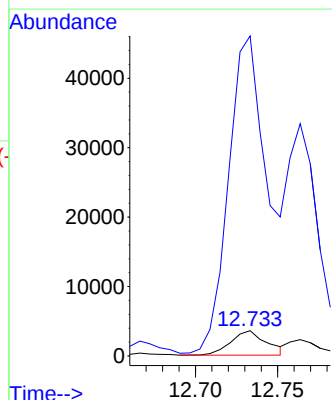
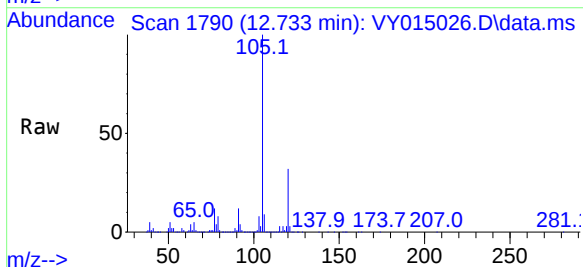
Instrument :
MSVOA_Y
ClientSampleId :

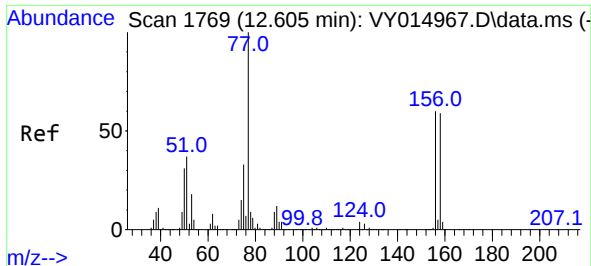
Tgt Ion:105 Resp: 78839
Ion Ratio Lower Upper
105 100
120 26.1 13.3 39.9



#76
1,2,3-Trichloropropane
Concen: 1.864 ug/l
RT: 12.733 min Scan# 1790
Delta R.T. 0.104 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

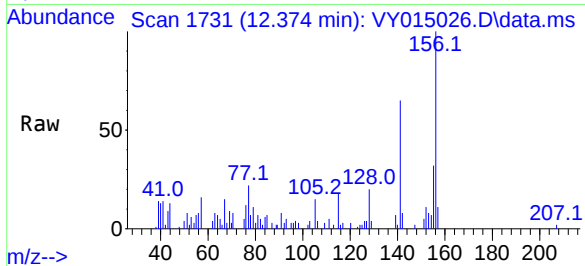
Tgt Ion: 75 Resp: 5322
Ion Ratio Lower Upper
75 100
77 1415.1 0.0 0.0#



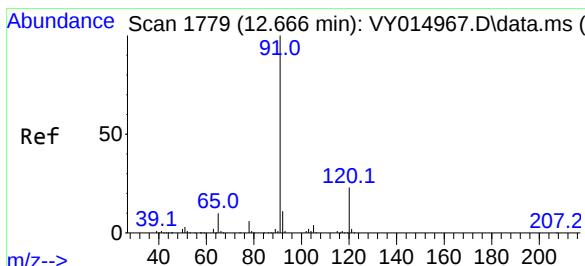
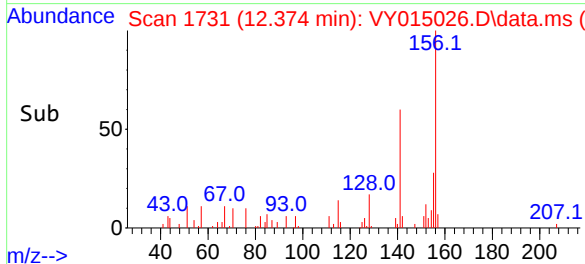
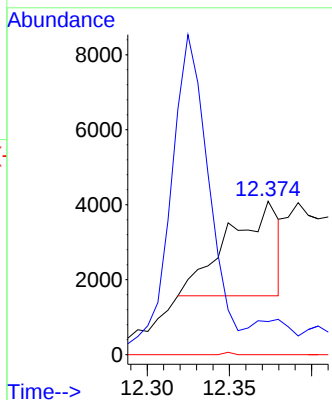


#77
Bromobenzene
Concen: 1.382 ug/l
RT: 12.374 min Scan# 11
Delta R.T. -0.232 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Instrument :
MSVOA_Y
ClientSampleId :

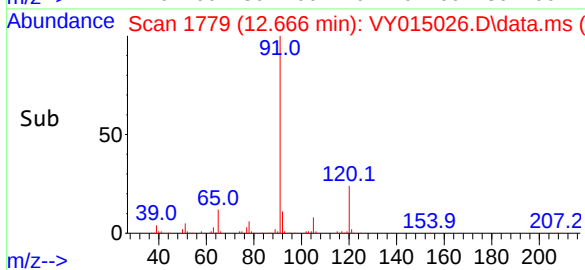
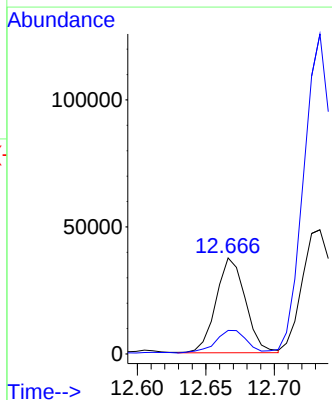
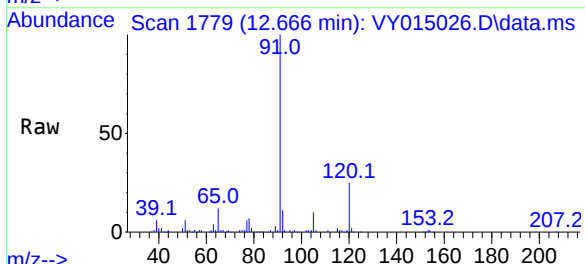


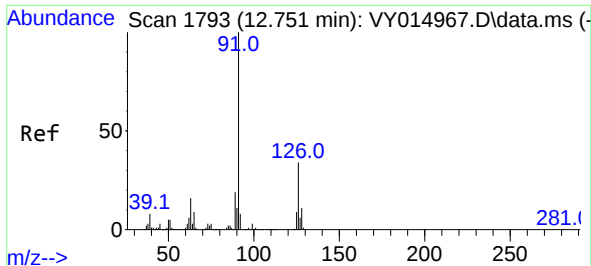
Tgt Ion:156 Resp: 5370
Ion Ratio Lower Upper
156 100
77 0.0 92.8 278.6#
158 0.0 48.4 145.3#



#78
n-propylbenzene
Concen: 2.912 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Tgt Ion: 91 Resp: 55790
Ion Ratio Lower Upper
91 100
120 25.0 11.5 34.4





#79

2-Chlorotoluene

Concen: 3.882 ug/l

RT: 12.764 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY015026.D

Acq: 10 Aug 2023 14:41

Instrument :

MSVOA_Y

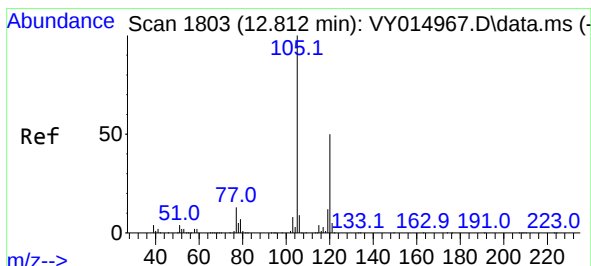
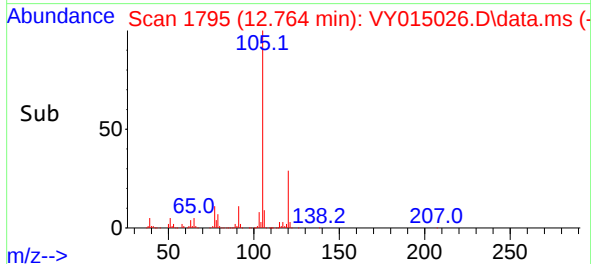
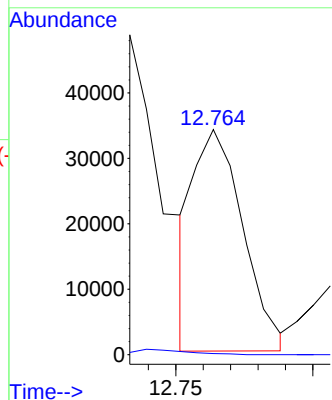
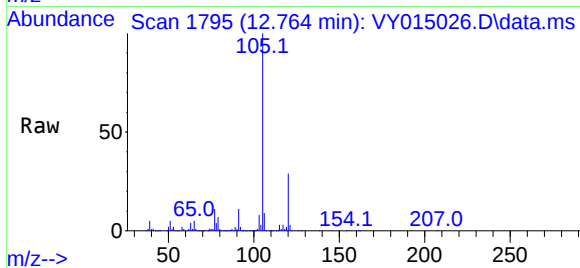
ClientSampleId :

Tgt Ion: 91 Resp: 42380

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.7#



#80

1,3,5-Trimethylbenzene

Concen: 11.281 ug/l

RT: 12.806 min Scan# 1802

Delta R.T. -0.006 min

Lab File: VY015026.D

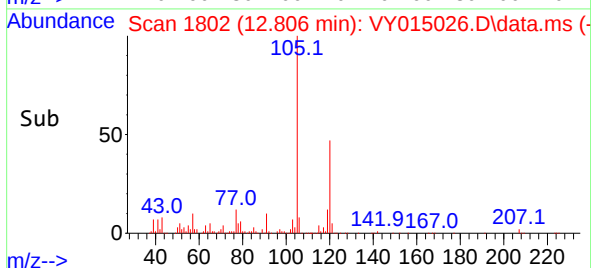
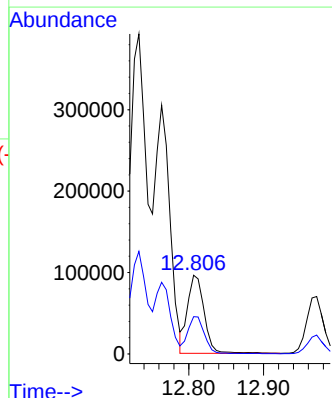
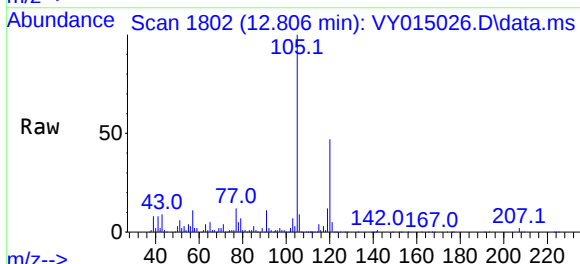
Acq: 10 Aug 2023 14:41

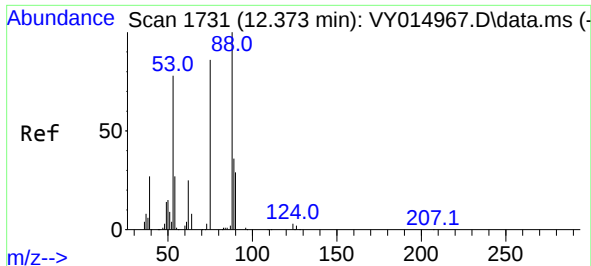
Tgt Ion: 105 Resp: 148903

Ion Ratio Lower Upper

105 100

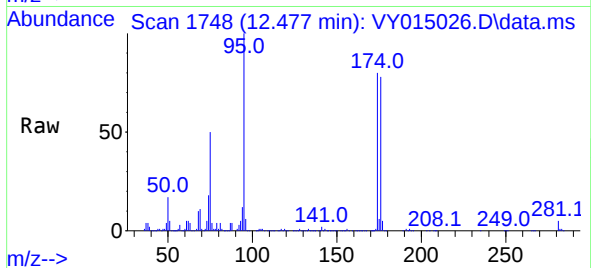
120 46.5 23.9 71.7



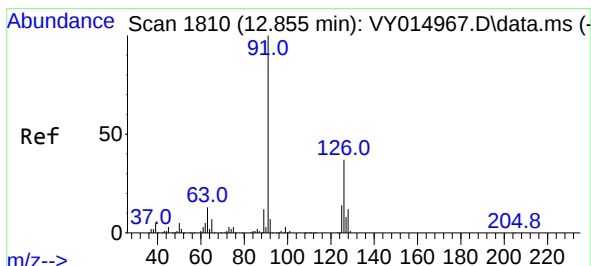
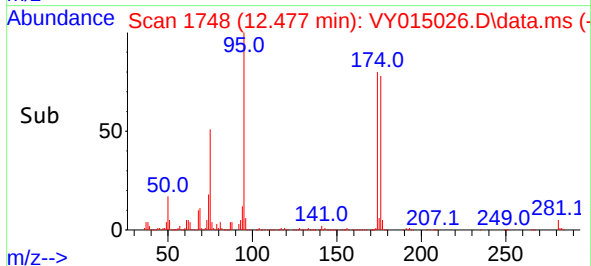
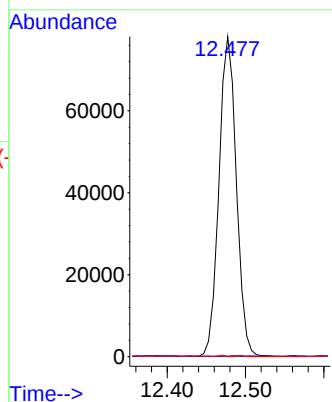


#81
trans-1,4-Dichloro-2-butene
Concen: 92.999 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Instrument :
MSVOA_Y
ClientSampleId :

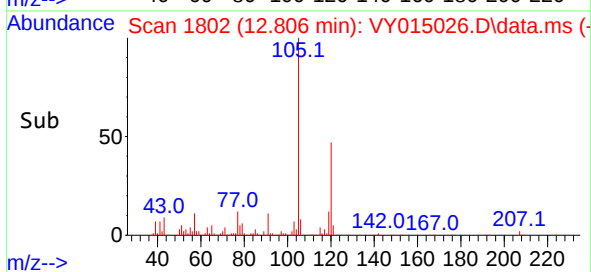
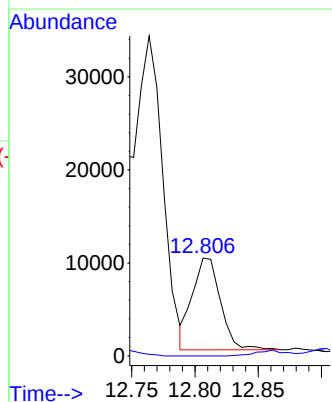
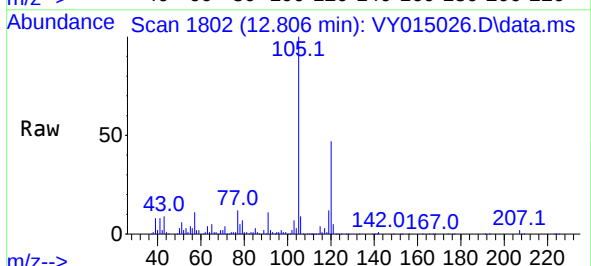


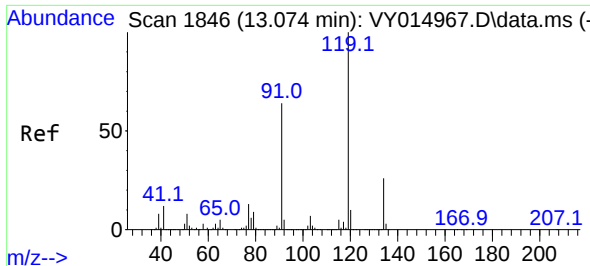
Tgt Ion: 75 Resp: 120524
Ion Ratio Lower Upper
75 100
53 0.2 77.8 116.8#
89 0.2 37.4 56.0#



#82
4-Chlorotoluene
Concen: 1.360 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. -0.049 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Tgt Ion: 91 Resp: 15348
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#

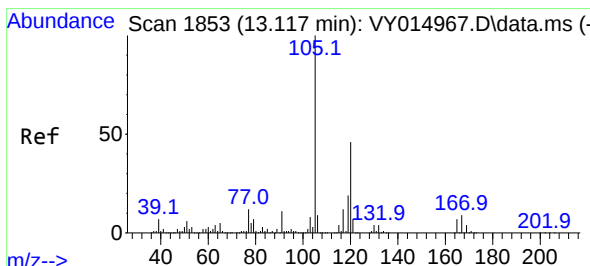
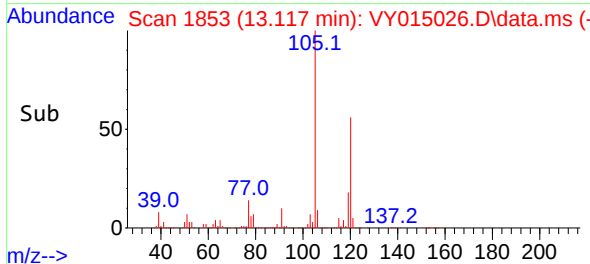
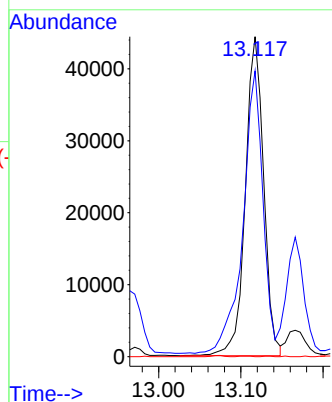
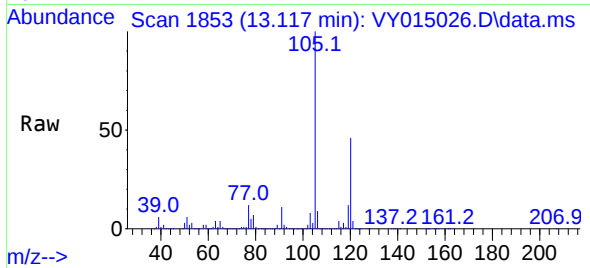




#83
tert-Butylbenzene
Concen: 5.675 ug/l
RT: 13.117 min Scan# 1846
Delta R.T. 0.043 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

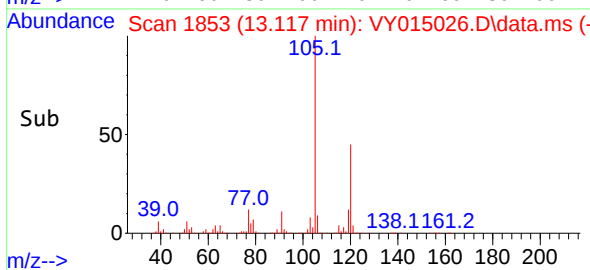
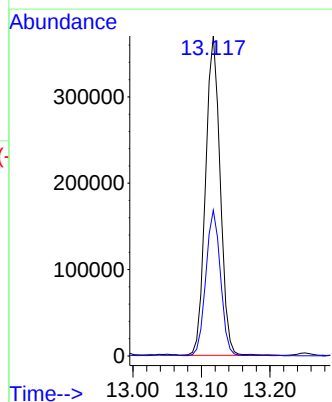
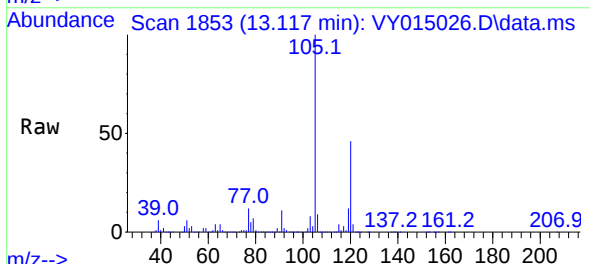
Instrument :
MSVOA_Y
ClientSampleId :

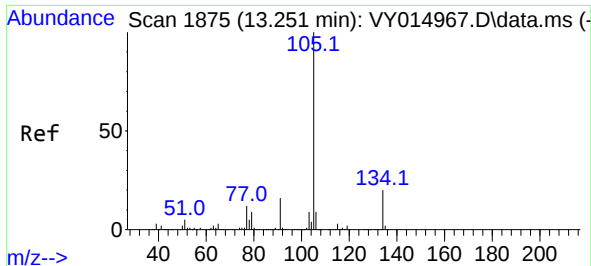
Tgt Ion:119 Resp: 68528
Ion Ratio Lower Upper
119 100
91 96.6 32.9 98.6
134 0.0 13.0 38.9#



#84
1,2,4-Trimethylbenzene
Concen: 41.564 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Tgt Ion:105 Resp: 549647
Ion Ratio Lower Upper
105 100
120 45.4 22.2 66.6

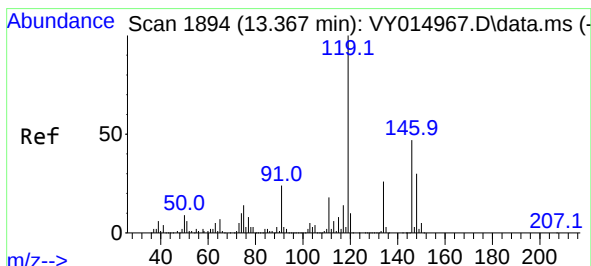
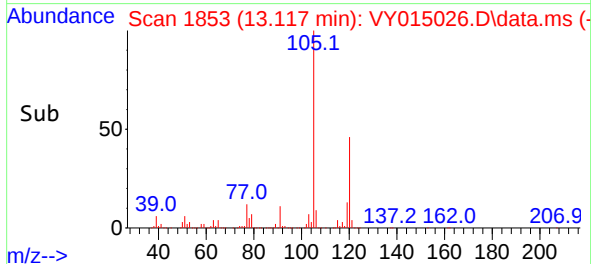
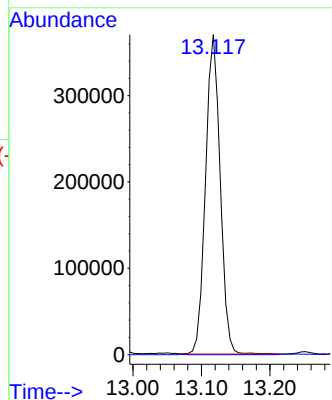
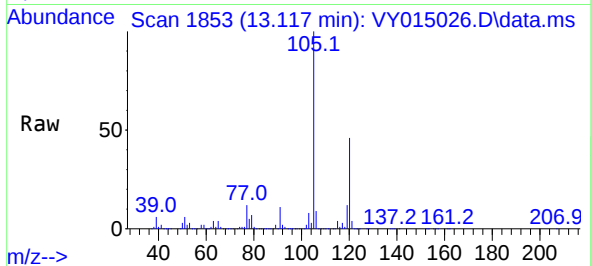




#85
 sec-Butylbenzene
 Concen: 31.016 ug/l
 RT: 13.117 min Scan# 1853
 Delta R.T. -0.134 min
 Lab File: VY015026.D
 Acq: 10 Aug 2023 14:41

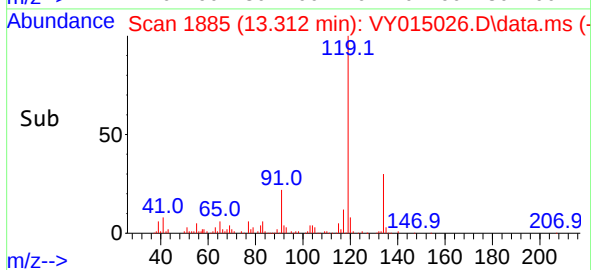
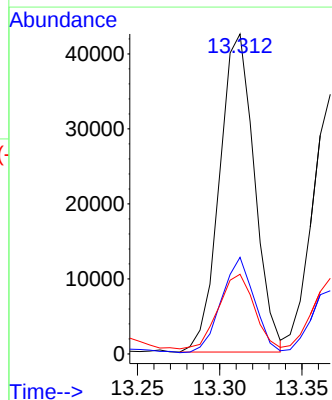
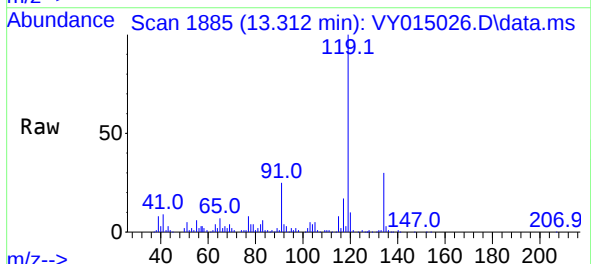
Instrument :
 MSVOA_Y
 ClientSampleId :

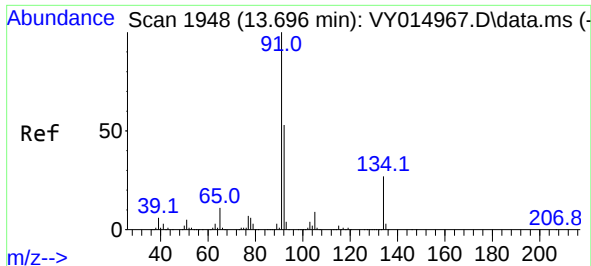
Tgt Ion:105 Resp: 549647
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.6#



#86
 p-Isopropyltoluene
 Concen: 4.268 ug/l
 RT: 13.312 min Scan# 1885
 Delta R.T. -0.055 min
 Lab File: VY015026.D
 Acq: 10 Aug 2023 14:41

Tgt Ion:119 Resp: 62613
 Ion Ratio Lower Upper
 119 100
 134 28.7 13.3 39.8
 91 23.6 12.4 37.4





#89

n-Butylbenzene

Concen: 40.161 ug/l

RT: 13.623 min Scan# 1948

Delta R.T. -0.073 min

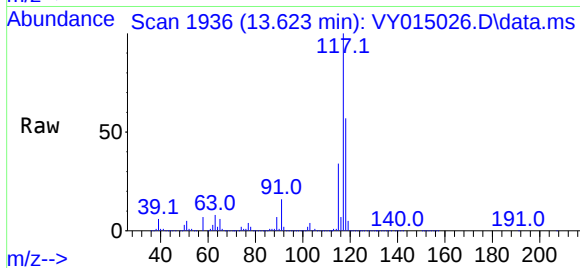
Lab File: VY015026.D

Acq: 10 Aug 2023 14:41

Instrument :

MSVOA_Y

ClientSampleId :



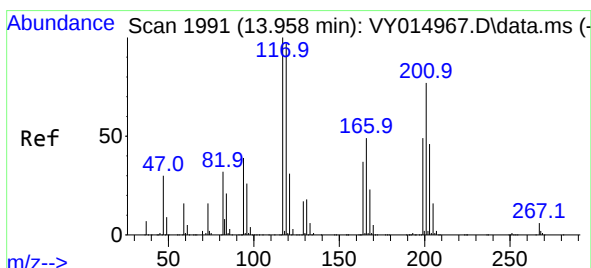
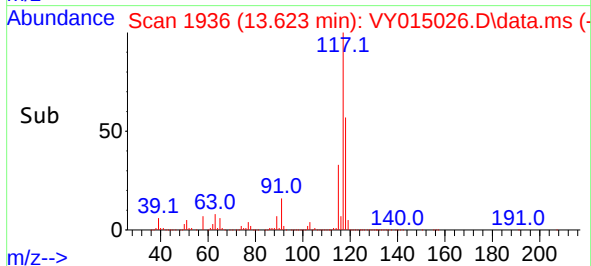
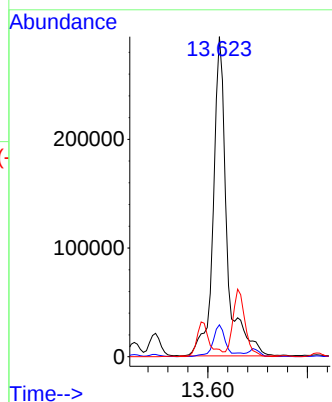
Tgt Ion: 91 Resp: 553520

Ion Ratio Lower Upper

91 100

92 9.0 25.4 76.0#

134 0.0 12.6 37.6#



#90

Hexachloroethane

Concen: 11.609 ug/l

RT: 13.965 min Scan# 1992

Delta R.T. 0.006 min

Lab File: VY015026.D

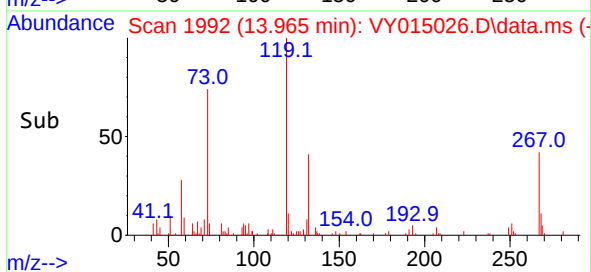
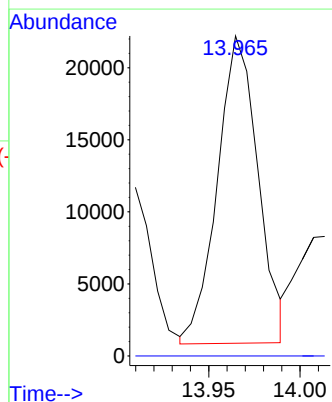
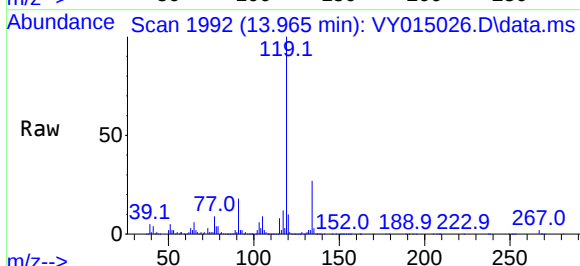
Acq: 10 Aug 2023 14:41

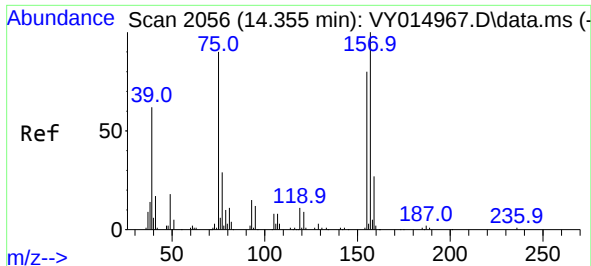
Tgt Ion: 117 Resp: 33069

Ion Ratio Lower Upper

117 100

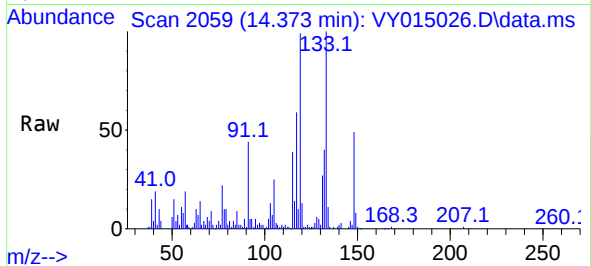
201 0.0 41.6 124.8#



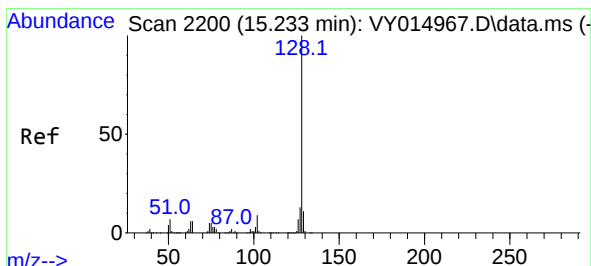
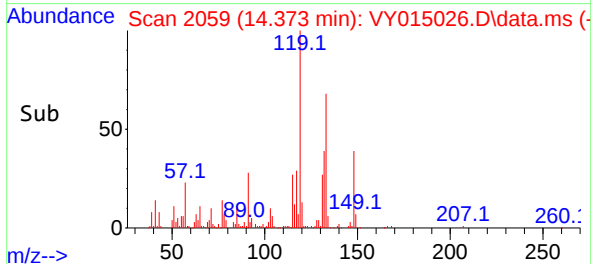
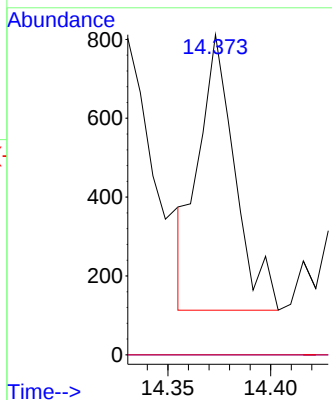


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.119 ug/l
RT: 14.373 min Scan# 2059
Delta R.T. 0.018 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion: 75 Resp: 855
Ion Ratio Lower Upper
75 100
155 0.0 41.5 124.6#
157 0.0 51.8 155.5#



#95
Naphthalene
Concen: 1138.593 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. 0.000 min
Lab File: VY015026.D
Acq: 10 Aug 2023 14:41

Tgt Ion:128 Resp:12032065
Ion Ratio Lower Upper
128 100
127 14.2 10.8 16.2
129 12.2 8.6 13.0

