

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091523\
 Data File : VY015603.D
 Acq On : 16 Sep 2023 05:31
 Operator : SY/MD
 Sample : 04419-17
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 16 07:02:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y082923S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 31 20:01:47 2023
 Response via : Initial Calibration

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

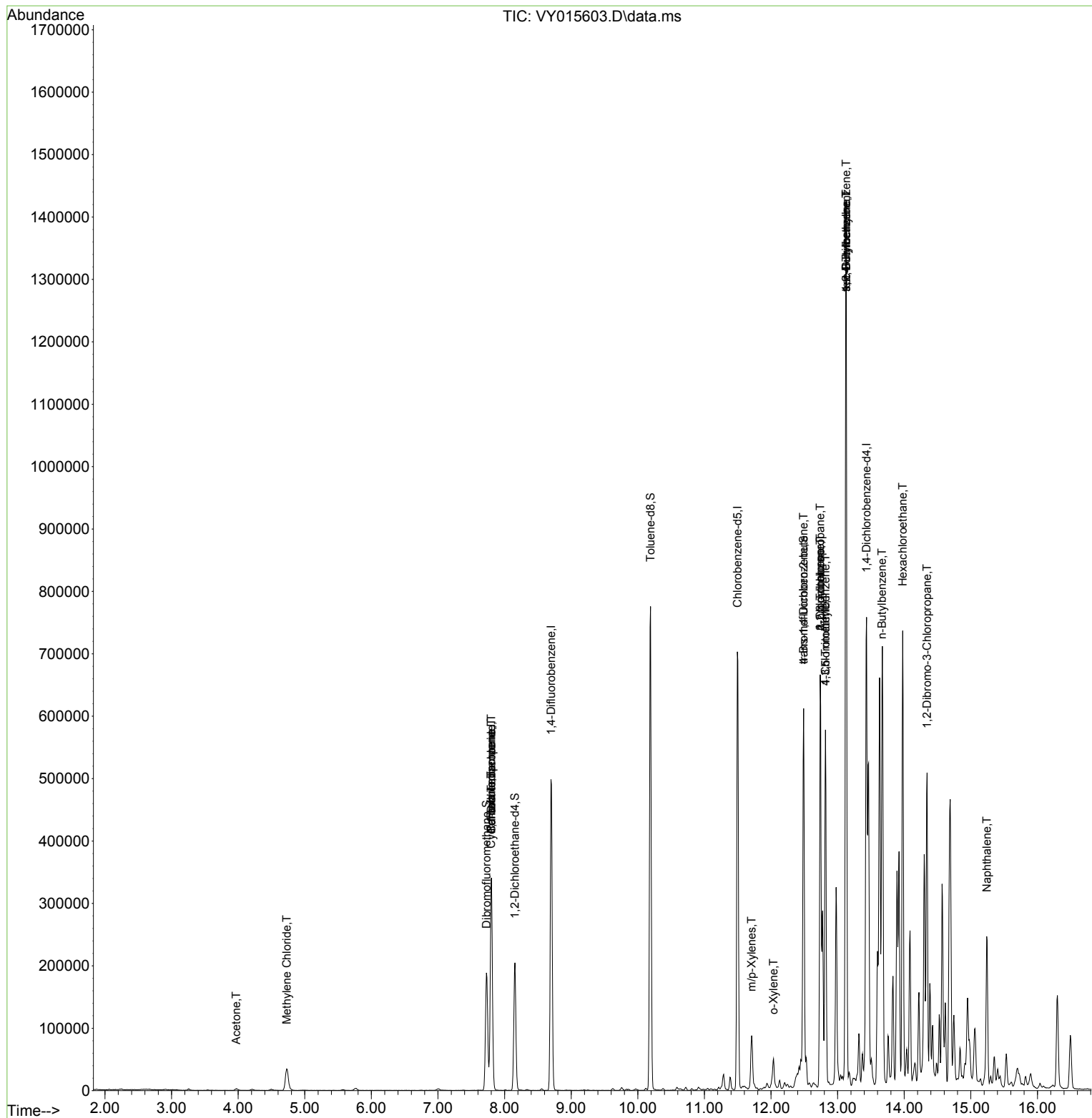
Internal Standards						
1) Pentafluorobenzene	7.801	168	265191	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	8.697	114	436686	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.496	117	394400	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	189335	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	159489	56.103	ug/l	0.02
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.200%			
35) Dibromofluoromethane	7.728	113	137128	54.519	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 109.040%			
50) Toluene-d8	10.191	98	510981	56.099	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 112.200%			
62) 4-Bromofluorobenzene	12.489	95	183102	54.149	ug/l	0.01
Spiked Amount 50.000	Range 30 - 143		Recovery = 108.300%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.972	59	330	Below Cal	#	89
16) Acetone	3.973	43	4853	4.090	ug/l #	89
20) Methylene Chloride	4.729	84	26640	1.074	ug/l	94
31) Cyclohexane	7.795	56	5126	1.015	ug/l #	1
36) 1,1-Dichloropropene	7.801	75	19970	4.522	ug/l #	51
38) Carbon Tetrachloride	7.801	117	26578	5.827	ug/l #	16
68) m/p-Xylenes	11.709	106	24280	4.105	ug/l	95
69) o-Xylene	12.038	106	11589	2.050	ug/l	99
76) 1,2,3-Trichloropropane	12.739	75	4791	1.908	ug/l #	100
78) n-propylbenzene	12.739	91	52501	3.051	ug/l #	1
79) 2-Chlorotoluene	12.739	91	52501	5.439	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.819	105	277618	23.338	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.489	75	96329	84.632	ug/l #	11
82) 4-Chlorotoluene	12.819	91	29866	2.977	ug/l #	40
83) tert-Butylbenzene	13.129	119	92223	8.852	ug/l #	63
84) 1,2,4-Trimethylbenzene	13.129	105	767459	64.980	ug/l	97
85) sec-Butylbenzene	13.129	105	767459	49.386	ug/l #	56
89) n-Butylbenzene	13.666	91	71058	5.796	ug/l #	1
90) Hexachloroethane	13.977	117	32935	14.139	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.343	75	1669	2.485	ug/l #	3
95) Naphthalene	15.239	128	194399	20.592	ug/l	98

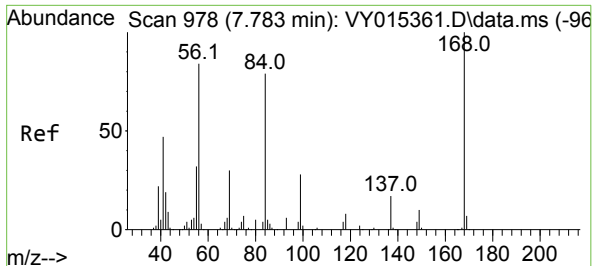
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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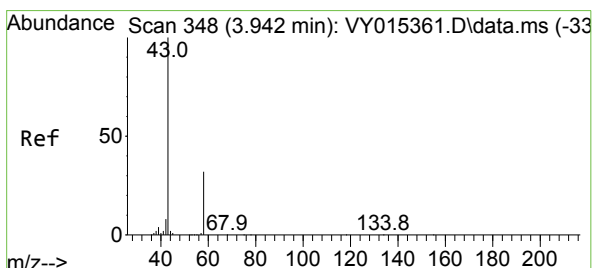
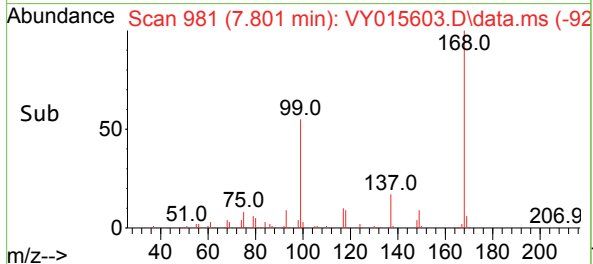
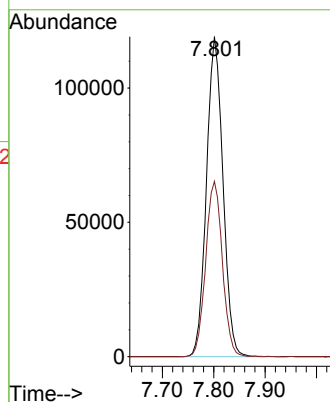
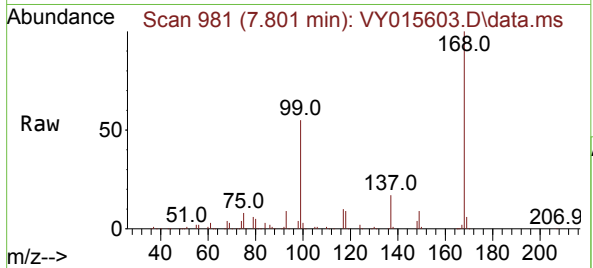




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

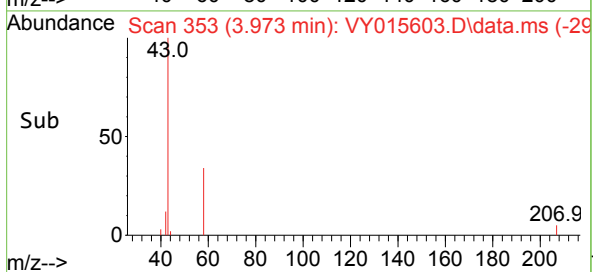
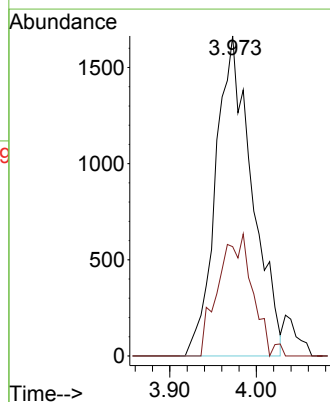
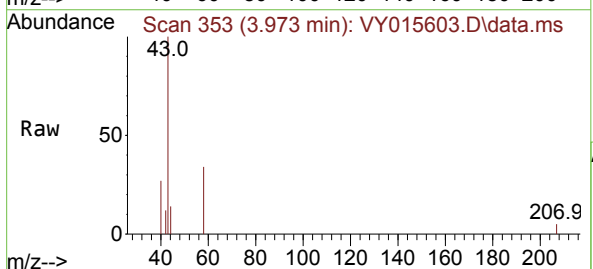
Instrument :
MSVOA_Y
ClientSampleId :

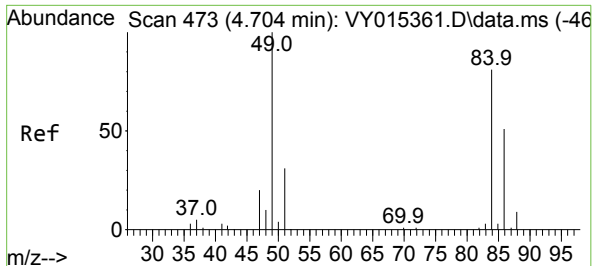
Tgt Ion:168 Resp: 265191
Ion Ratio Lower Upper
168 100
99 54.8 43.4 65.0



#16
Acetone
Concen: 4.090 ug/l
RT: 3.973 min Scan# 353
Delta R.T. 0.031 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

Tgt Ion: 43 Resp: 4853
Ion Ratio Lower Upper
43 100
58 34.1 22.7 34.1#





#20

Methylene Chloride

Concen: 1.074 ug/l

RT: 4.729 min Scan# 41

Delta R.T. 0.025 min

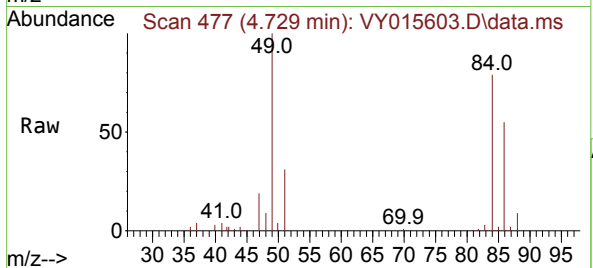
Lab File: VY015603.D

Acq: 16 Sep 2023 05:31

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 84 Resp: 26640

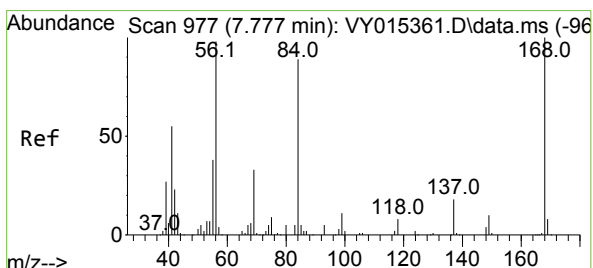
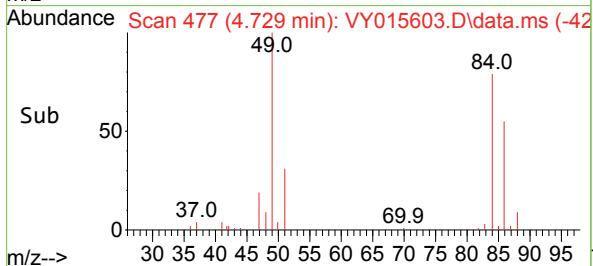
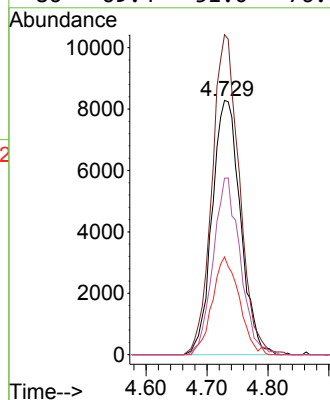
Ion Ratio Lower Upper

84 100

49 125.9 106.9 160.3

51 38.5 33.2 49.8

86 69.4 51.0 76.6



#31

Cyclohexane

Concen: 1.015 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.012 min

Lab File: VY015603.D

Acq: 16 Sep 2023 05:31

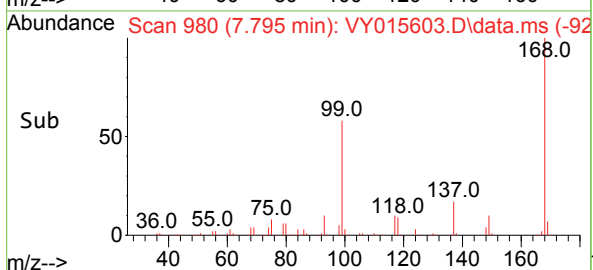
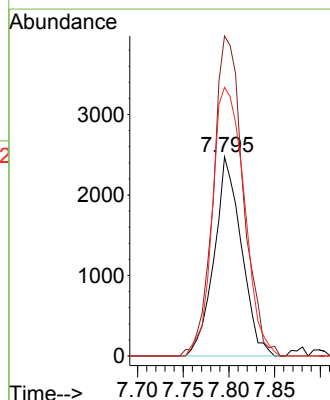
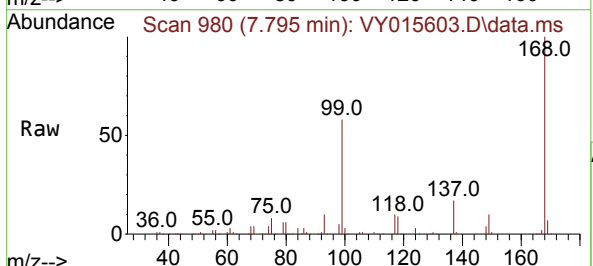
Tgt Ion: 56 Resp: 5126

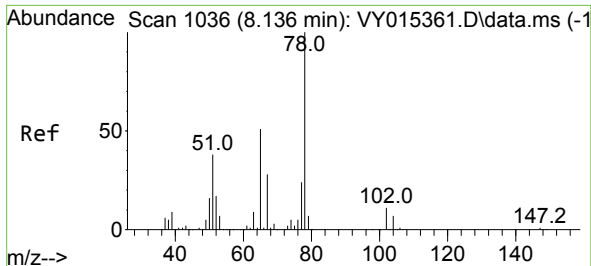
Ion Ratio Lower Upper

56 100

69 160.7 27.8 41.6#

84 134.9 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 56.103 ug/l

RT: 8.155 min Scan# 1039

Delta R.T. 0.018 min

Lab File: VY015603.D

Acq: 16 Sep 2023 05:31

Instrument :

MSVOA_Y

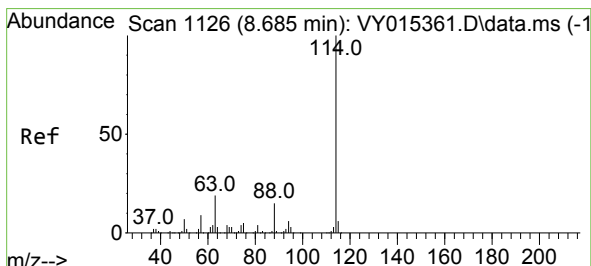
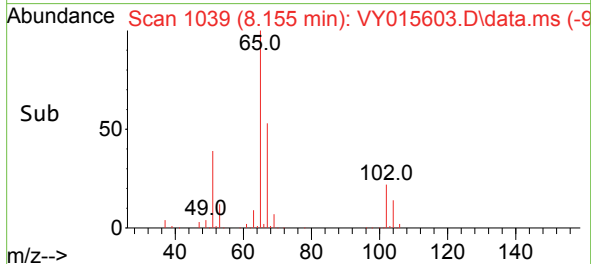
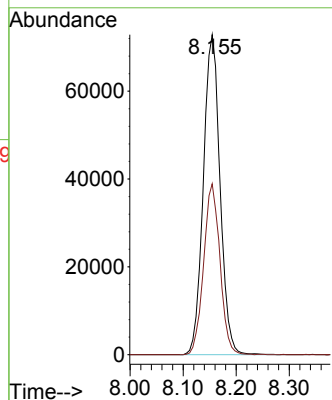
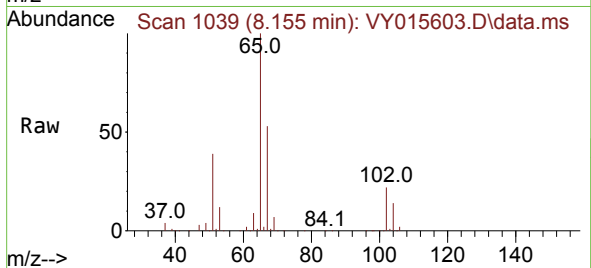
ClientSampleId :

Tgt Ion: 65 Resp: 159489

Ion Ratio Lower Upper

65 100

67 52.1 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.012 min

Lab File: VY015603.D

Acq: 16 Sep 2023 05:31

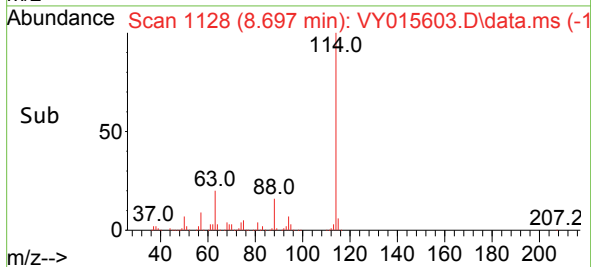
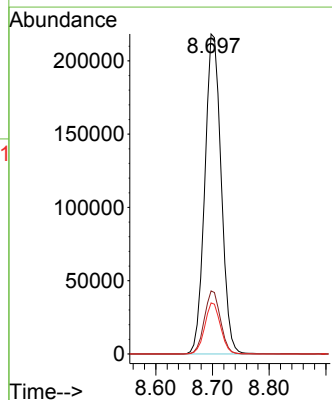
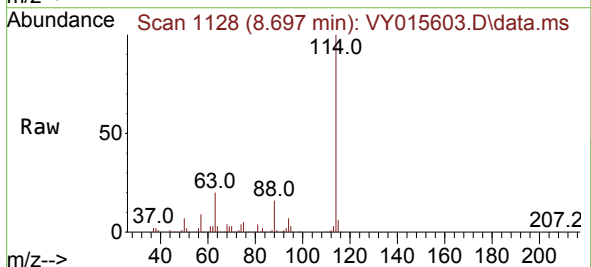
Tgt Ion: 114 Resp: 436686

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.4

88 15.9 0.0 30.6

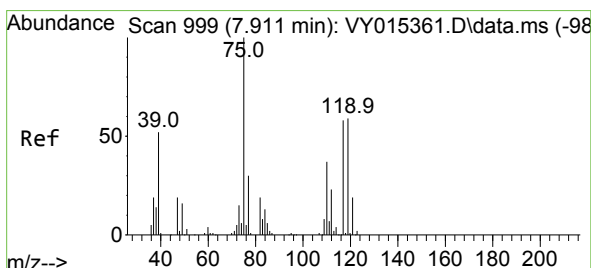
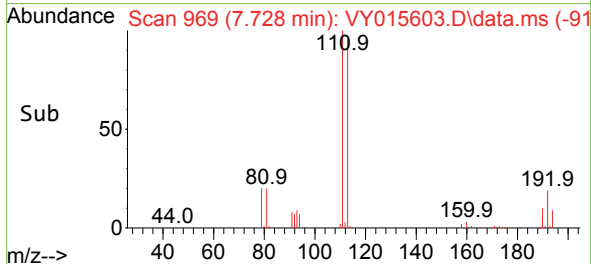
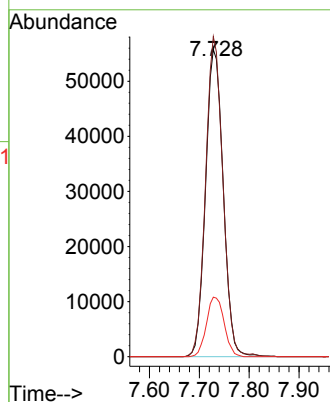
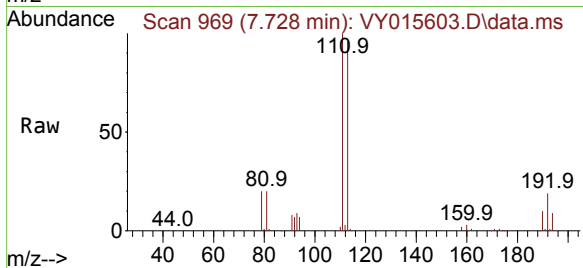




#35
Dibromofluoromethane
Concen: 54.519 ug/l
RT: 7.728 min Scan# 901
Delta R.T. 0.012 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

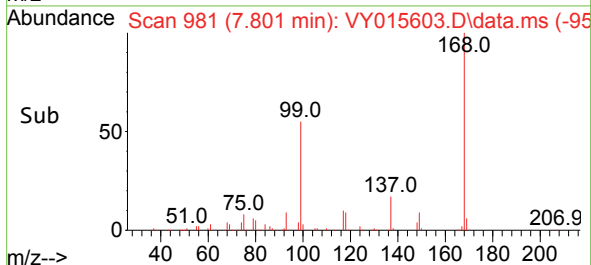
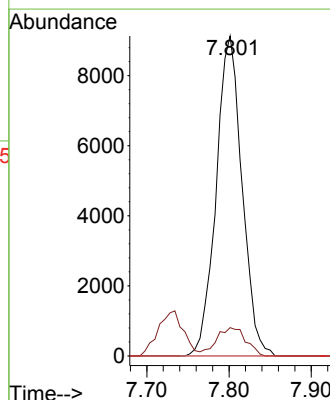
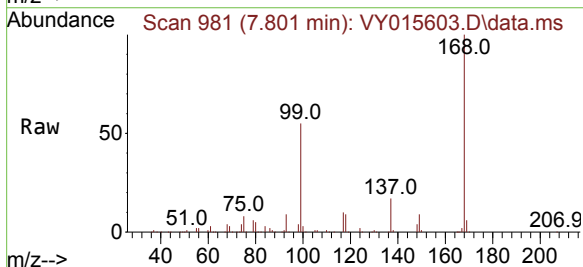
Instrument :
MSVOA_Y
ClientSampleId :

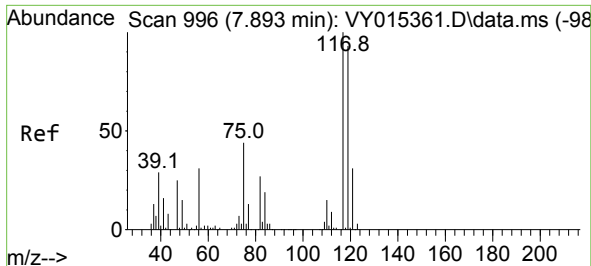
Tgt Ion:113 Resp: 137128
Ion Ratio Lower Upper
113 100
111 102.1 81.3 121.9
192 19.5 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.522 ug/l
RT: 7.801 min Scan# 981
Delta R.T. -0.110 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

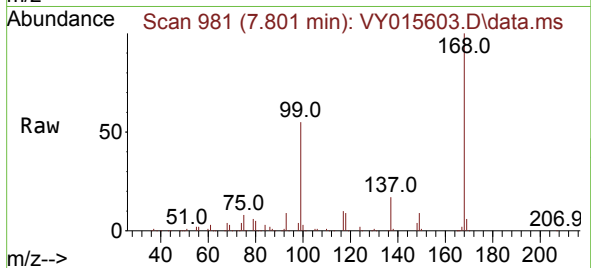
Tgt Ion: 75 Resp: 19970
Ion Ratio Lower Upper
75 100
110 10.0 17.8 53.5#
77 0.0 24.4 36.6#



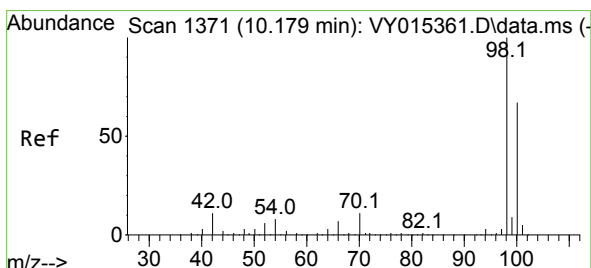
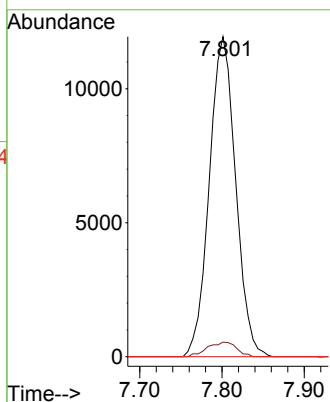
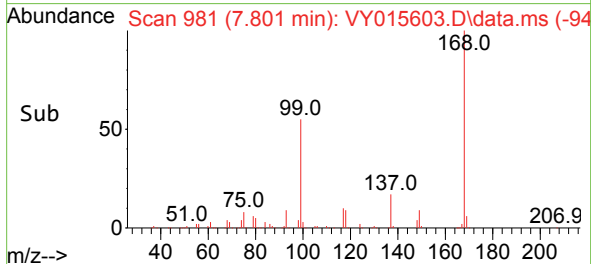


#38
Carbon Tetrachloride
Concen: 5.827 ug/l
RT: 7.801 min Scan# 91
Delta R.T. -0.091 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

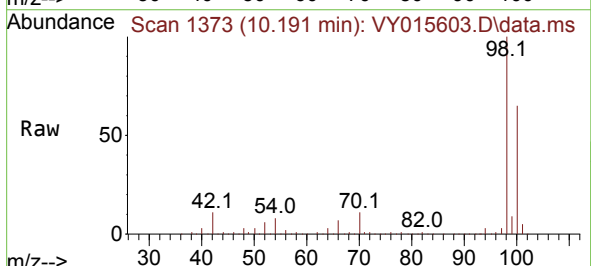
Instrument :
MSVOA_Y
ClientSampleId :



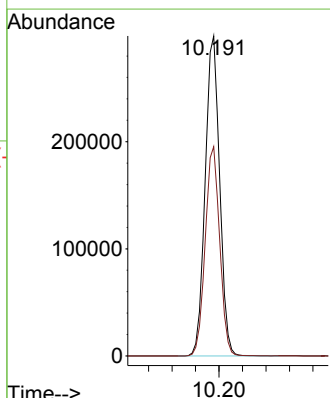
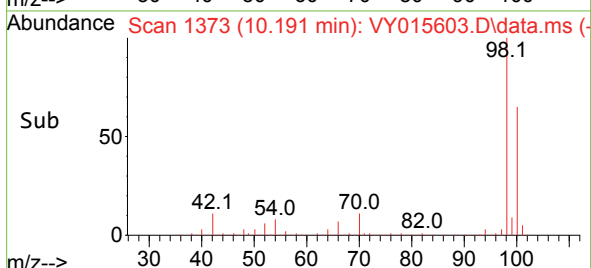
Tgt Ion:117 Resp: 26578
Ion Ratio Lower Upper
117 100
119 4.6 76.4 114.6#
121 0.0 25.8 38.6#

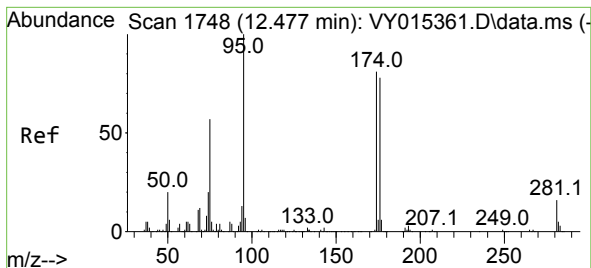


#50
Toluene-d8
Concen: 56.099 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. 0.012 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31



Tgt Ion: 98 Resp: 510981
Ion Ratio Lower Upper
98 100
100 65.5 50.1 75.1

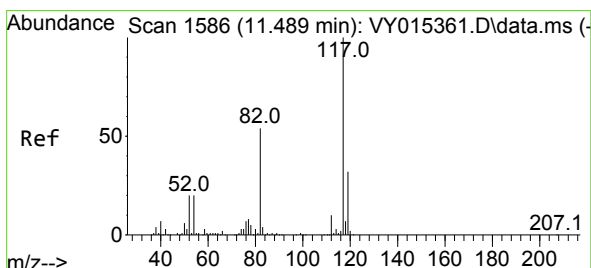
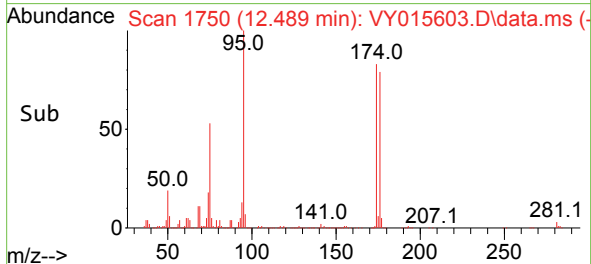
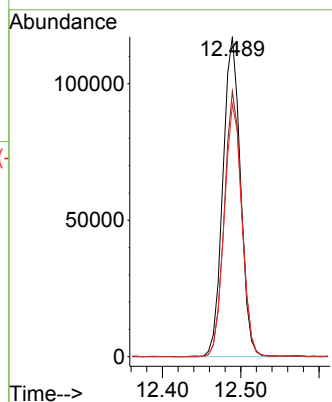
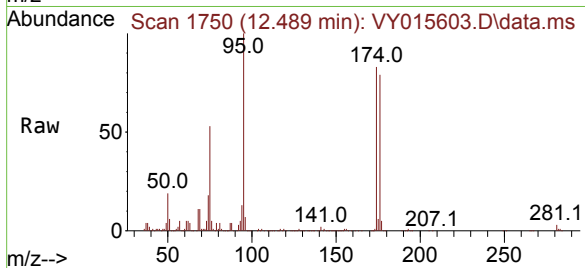




#62
4-Bromofluorobenzene
Concen: 54.149 ug/l
RT: 12.489 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

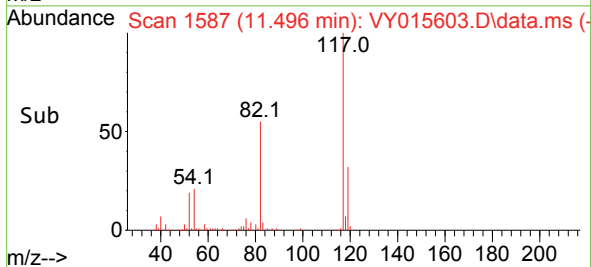
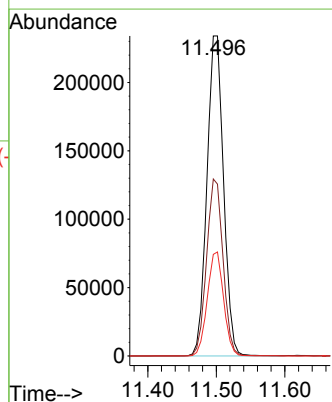
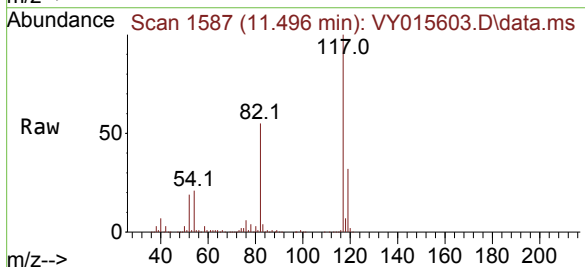
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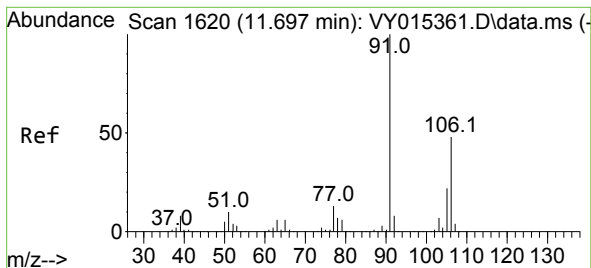
Tgt Ion: 95 Resp: 183102
Ion Ratio Lower Upper
95 100
174 82.3 0.0 178.2
176 79.3 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

Tgt Ion: 117 Resp: 394400
Ion Ratio Lower Upper
117 100
82 55.2 43.4 65.0
119 31.8 26.3 39.5

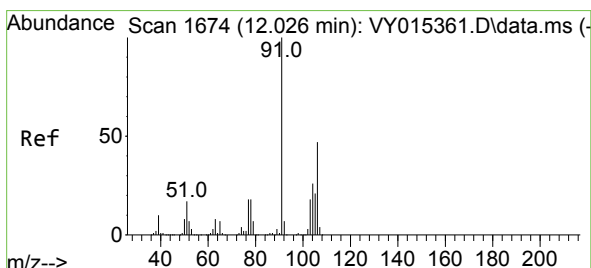
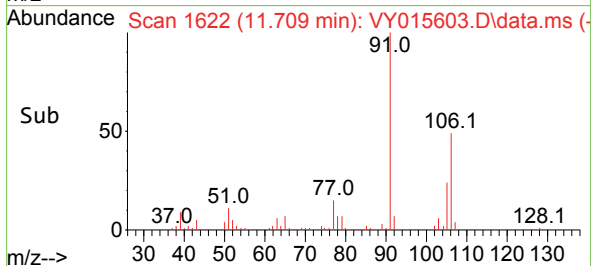
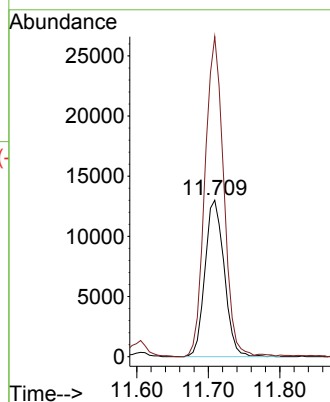
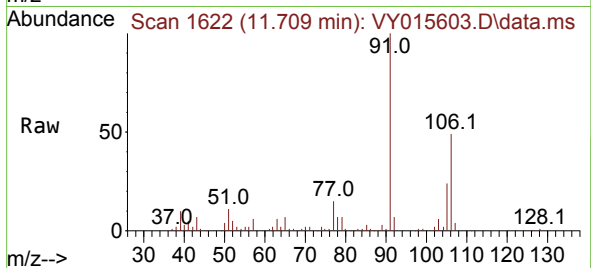




#68
m/p-Xylenes
Concen: 4.105 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

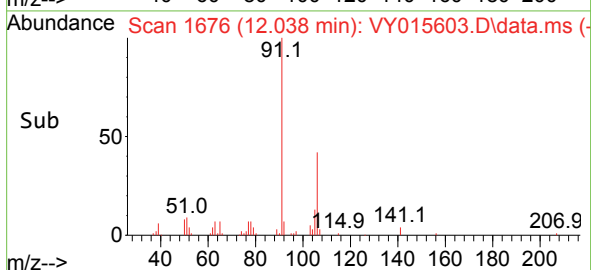
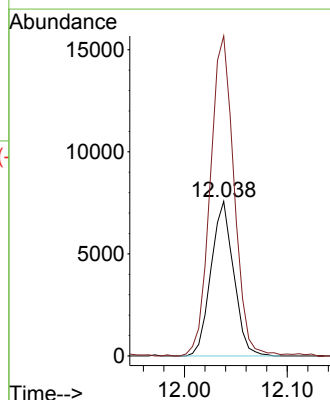
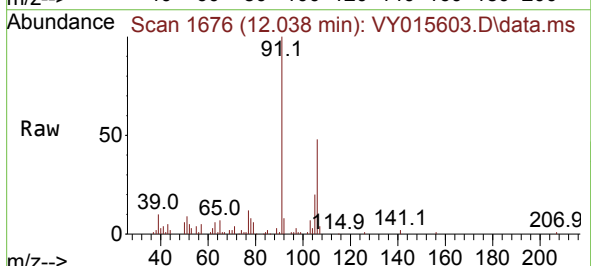
Instrument :
MSVOA_Y
ClientSampleId :

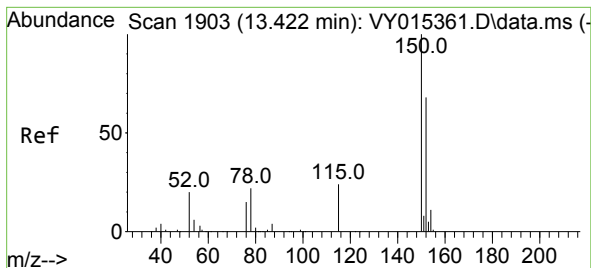
Tgt Ion:106 Resp: 24280
Ion Ratio Lower Upper
106 100
91 199.6 166.1 249.1



#69
o-Xylene
Concen: 2.050 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.012 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

Tgt Ion:106 Resp: 11589
Ion Ratio Lower Upper
106 100
91 217.9 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.012 min

Lab File: VY015603.D

Acq: 16 Sep 2023 05:31

Instrument :

MSVOA_Y

ClientSampleId :

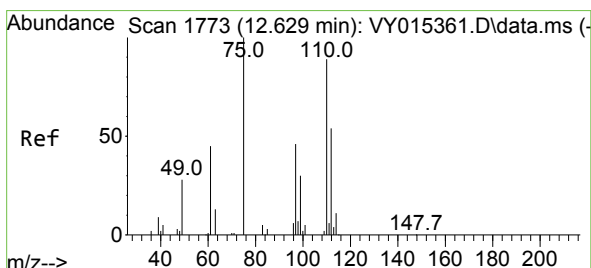
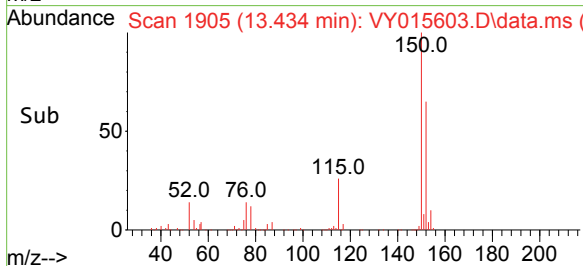
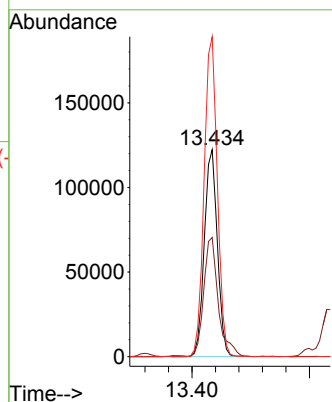
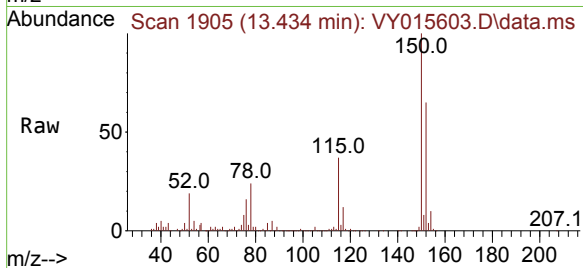
Tgt Ion:152 Resp: 189335

Ion Ratio Lower Upper

152 100

115 63.9 28.8 86.5

150 155.7 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 1.908 ug/l

RT: 12.739 min Scan# 1791

Delta R.T. 0.110 min

Lab File: VY015603.D

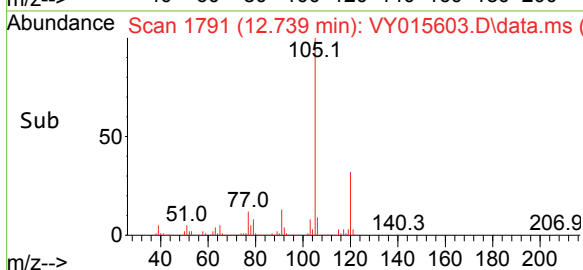
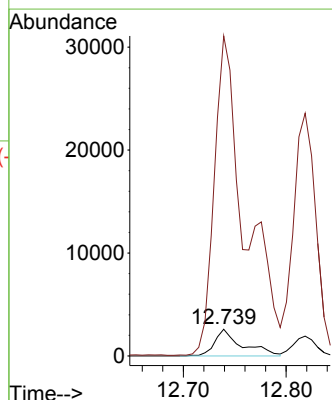
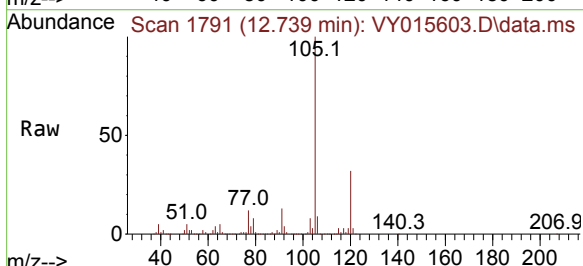
Acq: 16 Sep 2023 05:31

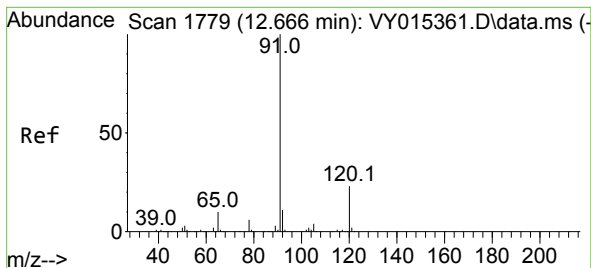
Tgt Ion: 75 Resp: 4791

Ion Ratio Lower Upper

75 100

77 1032.5 0.0 0.0#





#78

n-propylbenzene

Concen: 3.051 ug/l

RT: 12.739 min Scan# 1791

Delta R.T. 0.073 min

Lab File: VY015603.D

Acq: 16 Sep 2023 05:31

Instrument :

MSVOA_Y

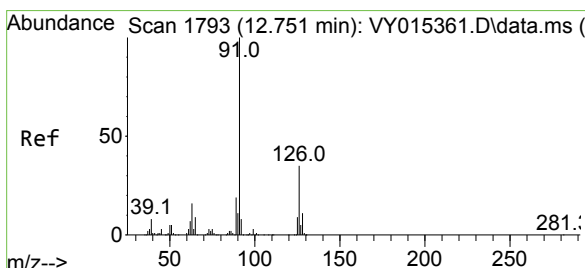
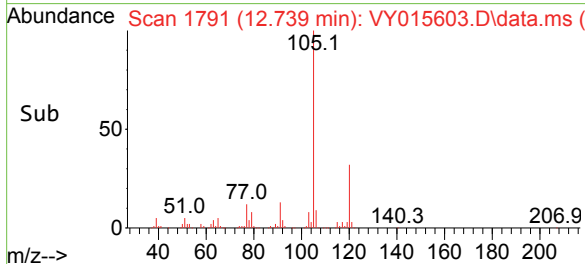
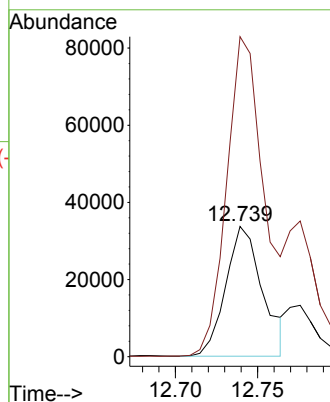
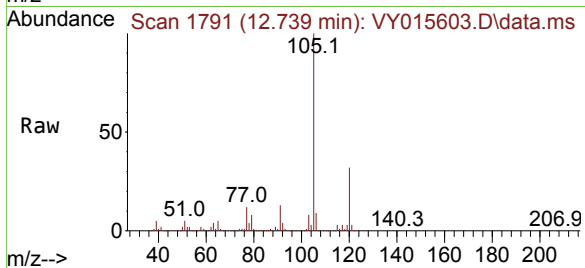
ClientSampleId :

Tgt Ion: 91 Resp: 52501

Ion Ratio Lower Upper

91 100

120 250.0 11.5 34.4#



#79

2-Chlorotoluene

Concen: 5.439 ug/l

RT: 12.739 min Scan# 1791

Delta R.T. -0.012 min

Lab File: VY015603.D

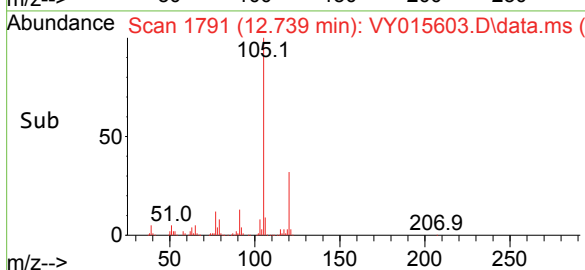
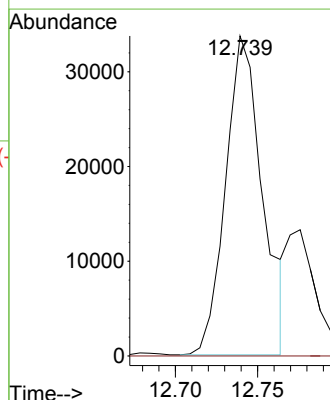
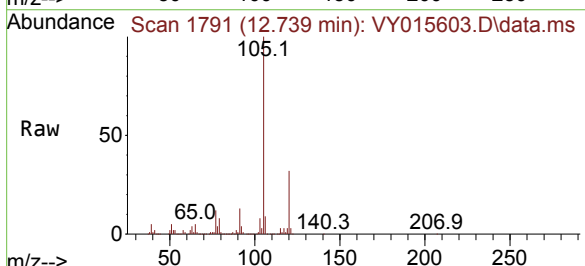
Acq: 16 Sep 2023 05:31

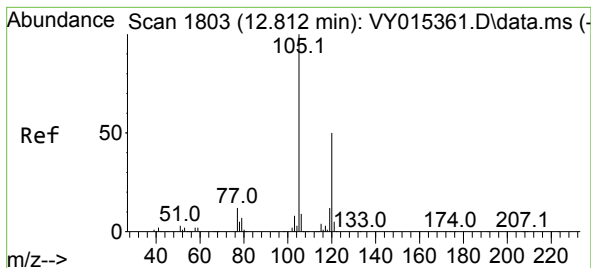
Tgt Ion: 91 Resp: 52501

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.7#





#80

1,3,5-Trimethylbenzene

Concen: 23.338 ug/l

RT: 12.819 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015603.D

Acq: 16 Sep 2023 05:31

Instrument :

MSVOA_Y

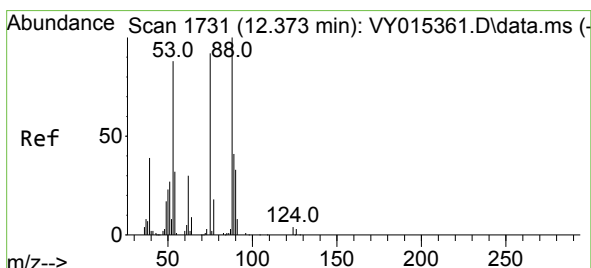
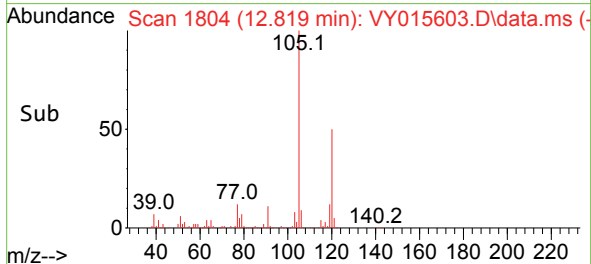
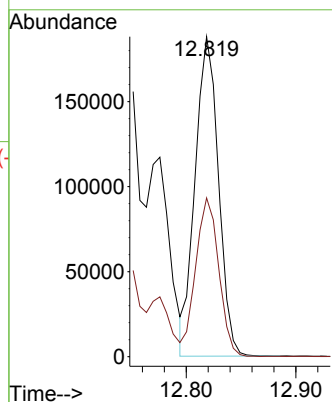
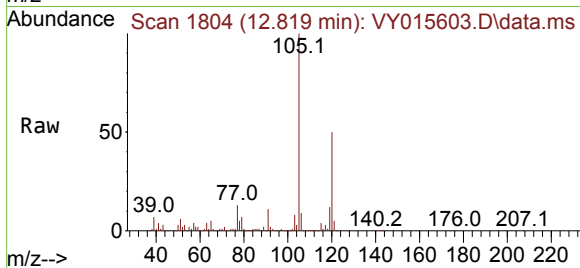
ClientSampleId :

Tgt Ion:105 Resp: 277618

Ion Ratio Lower Upper

105 100

120 49.2 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 84.632 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. 0.110 min

Lab File: VY015603.D

Acq: 16 Sep 2023 05:31

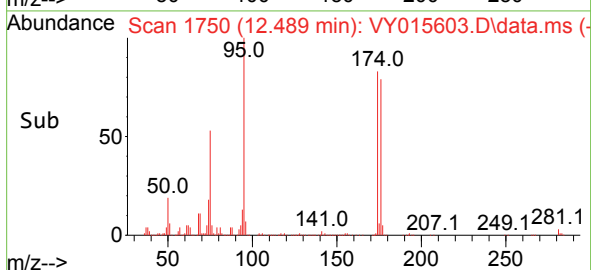
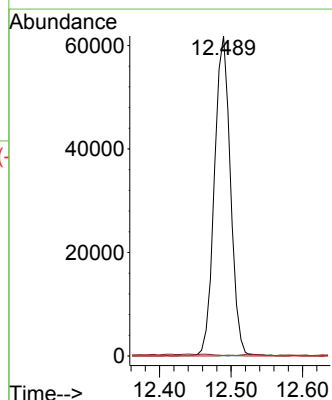
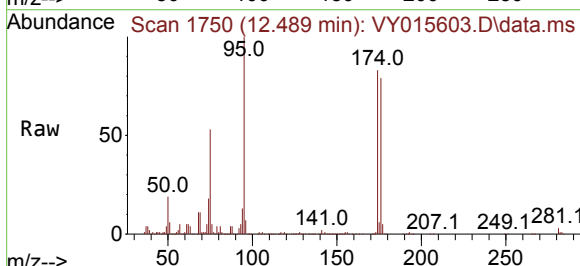
Tgt Ion: 75 Resp: 96329

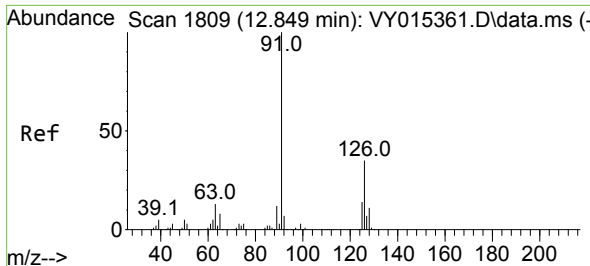
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.0 37.4 56.0#

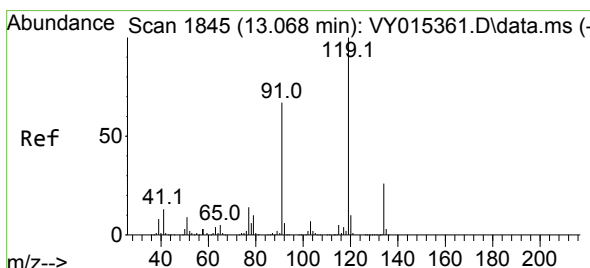
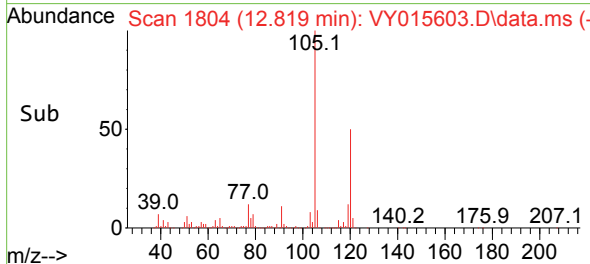
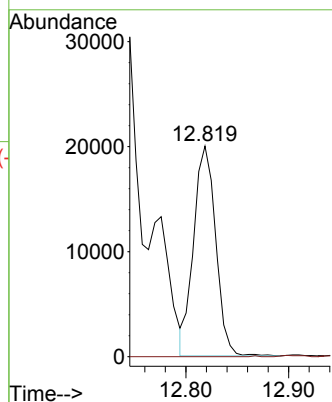
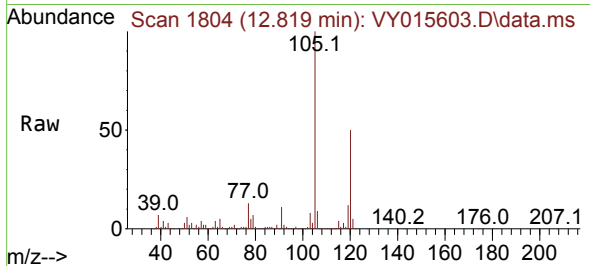




#82
4-Chlorotoluene
Concen: 2.977 ug/l
RT: 12.819 min Scan# 11
Delta R.T. -0.030 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

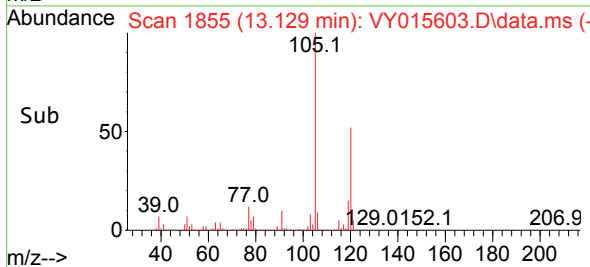
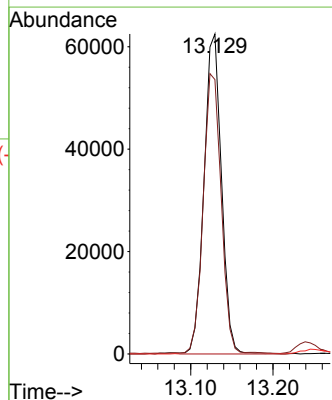
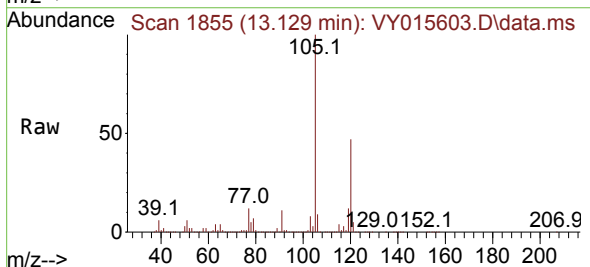
Instrument :
MSVOA_Y
ClientSampleId :

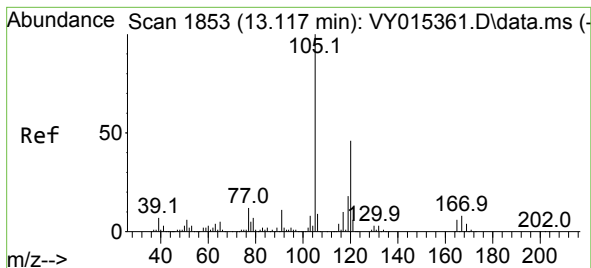
Tgt Ion: 91 Resp: 29866
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#83
tert-Butylbenzene
Concen: 8.852 ug/l
RT: 13.129 min Scan# 1855
Delta R.T. 0.055 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

Tgt Ion: 119 Resp: 92223
Ion Ratio Lower Upper
119 100
91 90.3 32.9 98.6
134 0.0 13.0 38.9#





#84

1,2,4-Trimethylbenzene

Concen: 64.980 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. 0.012 min

Lab File: VY015603.D

Acq: 16 Sep 2023 05:31

Instrument :

MSVOA_Y

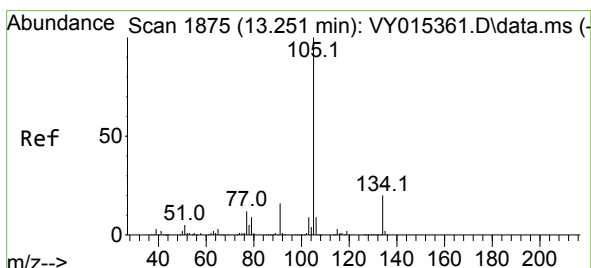
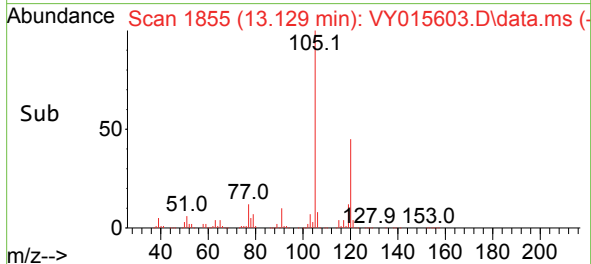
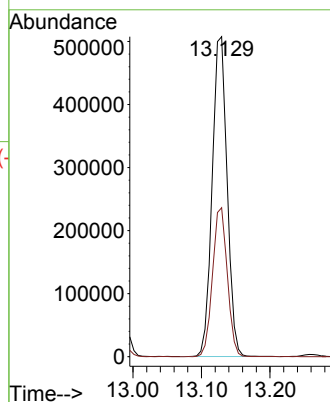
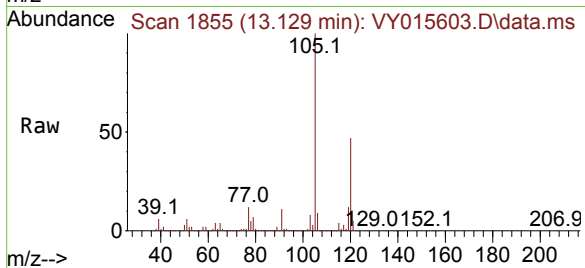
ClientSampleId :

Tgt Ion:105 Resp: 767459

Ion Ratio Lower Upper

105 100

120 46.0 22.2 66.6



#85

sec-Butylbenzene

Concen: 49.386 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. -0.122 min

Lab File: VY015603.D

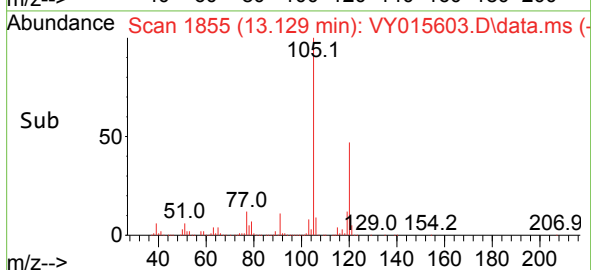
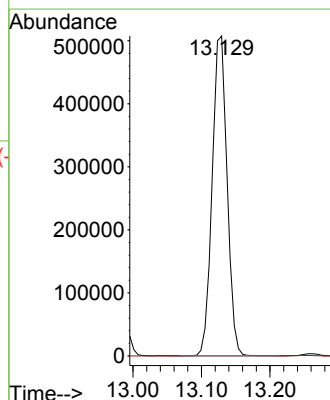
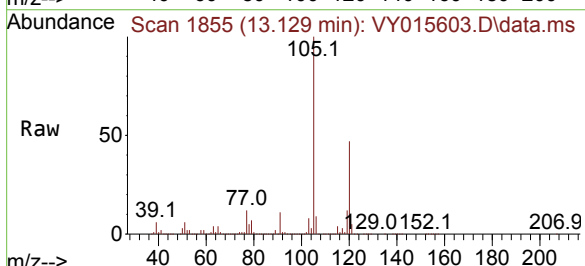
Acq: 16 Sep 2023 05:31

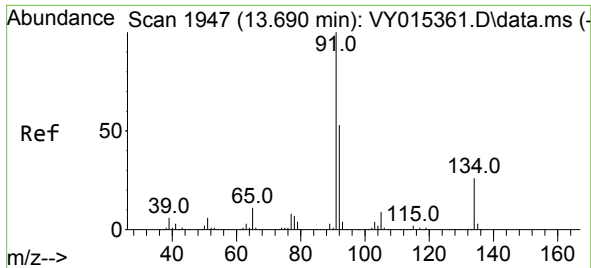
Tgt Ion:105 Resp: 767459

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#

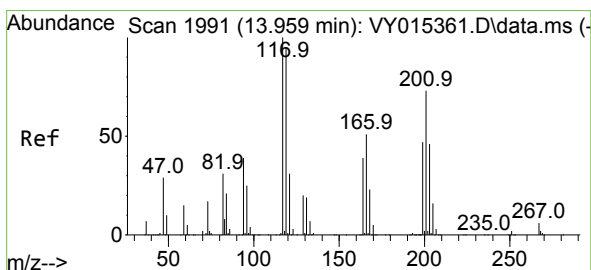
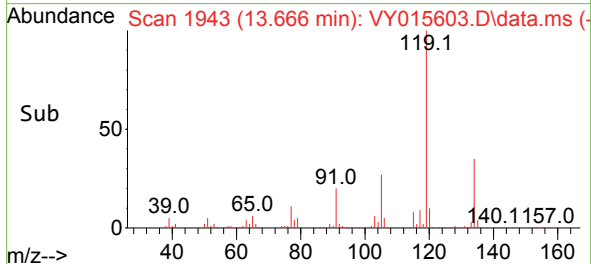
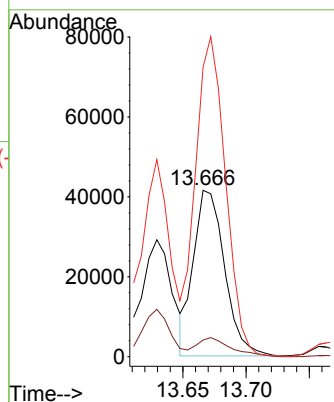
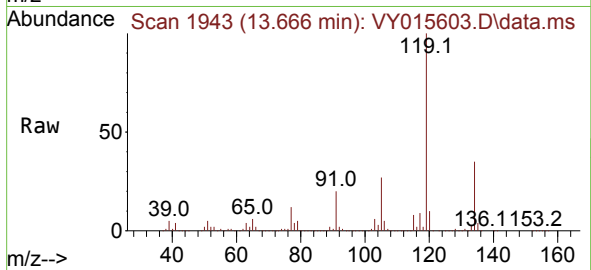




#89
n-Butylbenzene
Concen: 5.796 ug/l
RT: 13.666 min Scan# 1943
Delta R.T. -0.030 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

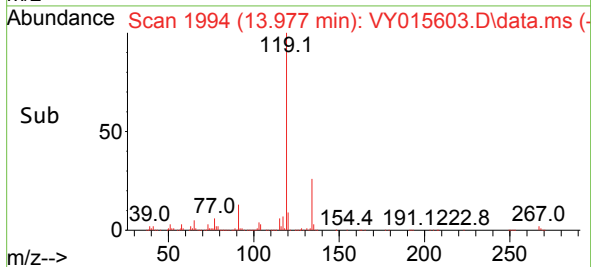
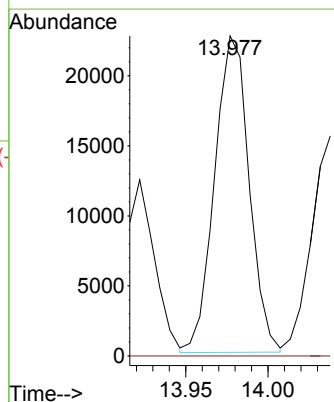
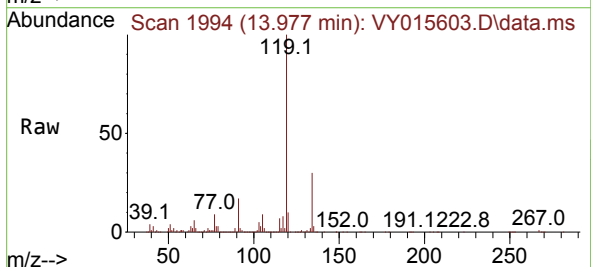
Instrument :
MSVOA_Y
ClientSampleId :

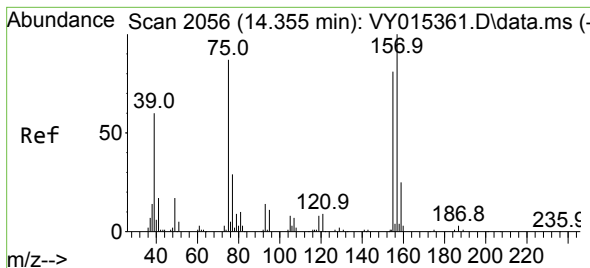
Tgt Ion: 91 Resp: 71058
Ion Ratio Lower Upper
91 100
92 12.3 25.4 76.0#
134 186.4 12.6 37.6#



#90
Hexachloroethane
Concen: 14.139 ug/l
RT: 13.977 min Scan# 1994
Delta R.T. 0.018 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

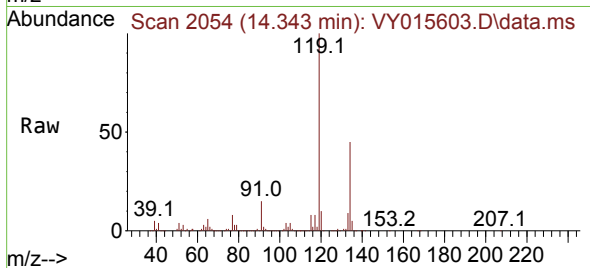
Tgt Ion: 117 Resp: 32935
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



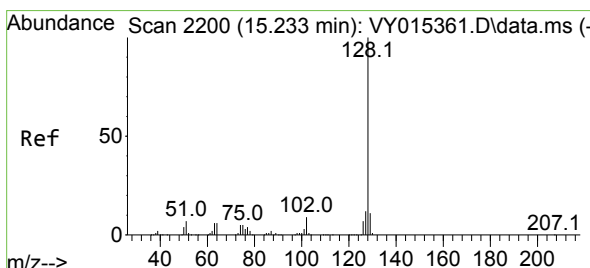
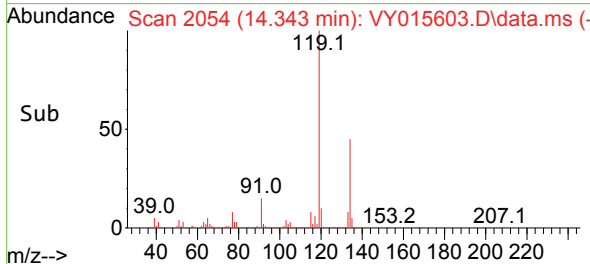
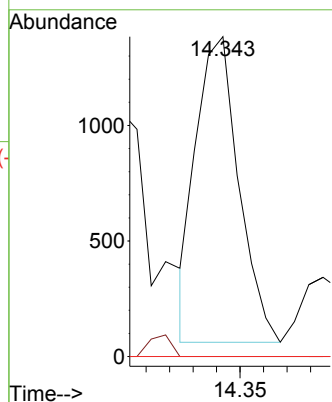


#92
1,2-Dibromo-3-Chloropropane
Concen: 2.485 ug/l
RT: 14.343 min Scan# 2054
Delta R.T. -0.012 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion: 75 Resp: 1669
Ion Ratio Lower Upper
75 100
155 0.0 41.5 124.6#
157 0.0 51.8 155.5#



#95
Naphthalene
Concen: 20.592 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. 0.006 min
Lab File: VY015603.D
Acq: 16 Sep 2023 05:31

Tgt Ion: 128 Resp: 194399
Ion Ratio Lower Upper
128 100
127 12.4 10.8 16.2
129 10.8 8.6 13.0

