

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092923\
 Data File : VY015770.D
 Acq On : 29 Sep 2023 21:46
 Operator : SY/MD
 Sample : 04657-12
 Misc : 5.67g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 30 01:20:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091923S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 20 01:39:40 2023
 Response via : Initial Calibration

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

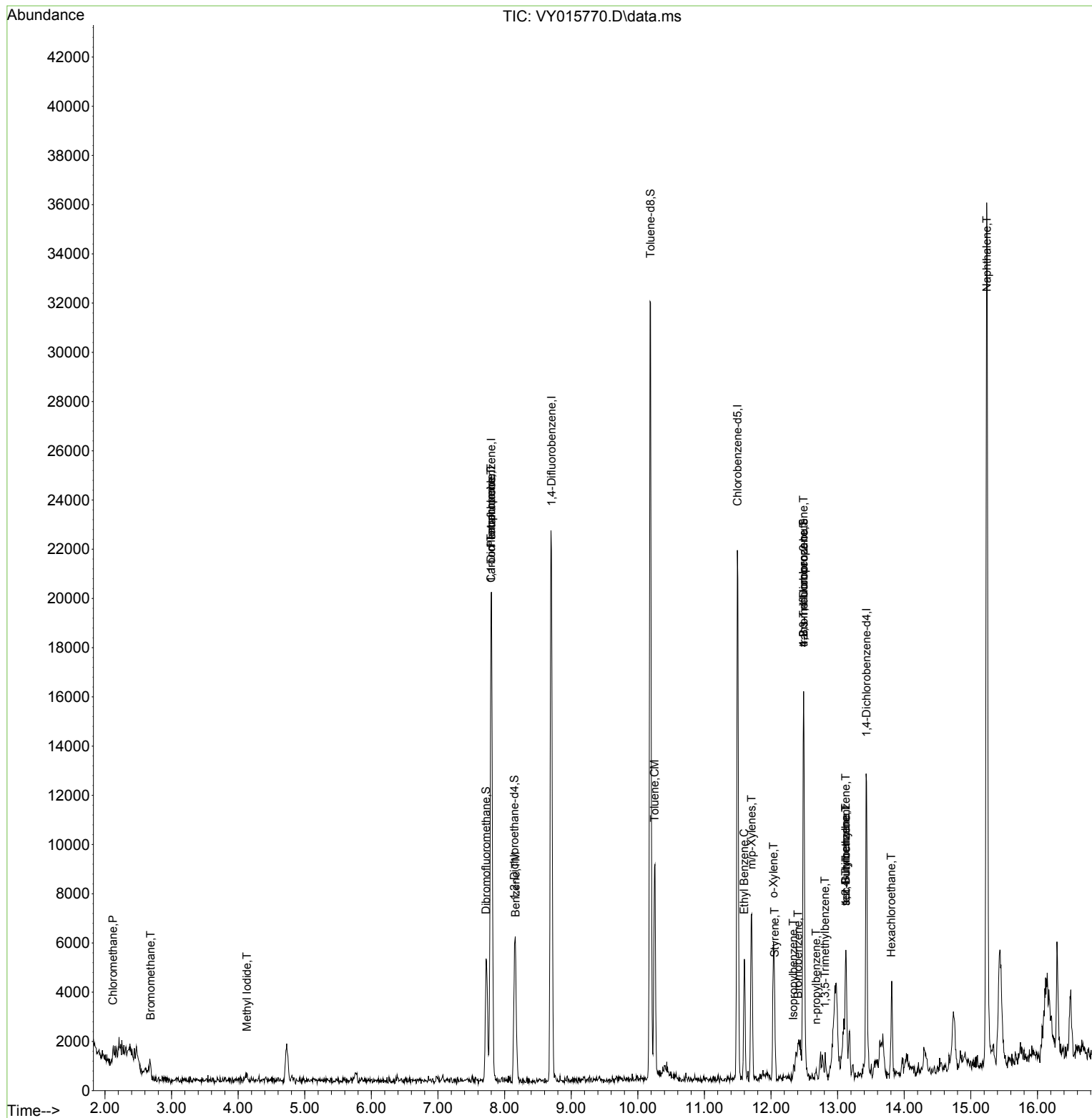
Internal Standards						
1) Pentafluorobenzene	7.801	168	16200	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	8.703	114	20437	50.000	ug/l	0.02
63) Chlorobenzene-d5	11.496	117	12081	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	3360	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	4394	24.651	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	49.300%#
35) Dibromofluoromethane	7.722	113	3759	30.730	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	61.460%
50) Toluene-d8	10.191	98	21836	52.648	ug/l	0.01
Spiked Amount	50.000	Range	58 - 134	Recovery	=	105.300%
62) 4-Bromofluorobenzene	12.489	95	4133	25.393	ug/l	0.01
Spiked Amount	50.000	Range	30 - 143	Recovery	=	50.780%
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	213	1.581	ug/l #	43
5) Bromomethane	2.686	94	280	4.301	ug/l #	71
10) Methyl Iodide	4.131	142	469	5.060	ug/l #	59
36) 1,1-Dichloropropene	7.795	75	1194	6.602	ug/l #	43
38) Carbon Tetrachloride	7.795	117	1424	7.253	ug/l #	22
40) Benzene	8.167	78	1494	2.709	ug/l #	78
52) Toluene	10.252	92	3790	10.659	ug/l	98
67) Ethyl Benzene	11.599	91	3665	7.951	ug/l	99
68) m/p-Xylenes	11.709	106	2333	13.317	ug/l	85
69) o-Xylene	12.038	106	1318	7.672	ug/l	92
70) Styrene	12.057	104	1560	5.305	ug/l	94
73) Isopropylbenzene	12.337	105	315	1.250	ug/l #	61
76) 1,2,3-Trichloropropane	12.489	75	2253	42.031	ug/l #	100
77) Bromobenzene	12.404	156	1524	24.631	ug/l #	1
78) n-propylbenzene	12.678	91	447	1.460	ug/l #	69
80) 1,3,5-Trimethylbenzene	12.813	105	496	2.351	ug/l	80
81) trans-1,4-Dichloro-2-b...	12.489	75	2253	94.650	ug/l #	10
83) tert-Butylbenzene	13.123	119	234	1.266	ug/l #	42
84) 1,2,4-Trimethylbenzene	13.123	105	1908	9.037	ug/l	95
85) sec-Butylbenzene	13.123	105	1908	6.899	ug/l #	56
90) Hexachloroethane	13.806	117	172	3.857	ug/l #	8
95) Naphthalene	15.239	128	31962	171.835	ug/l	99

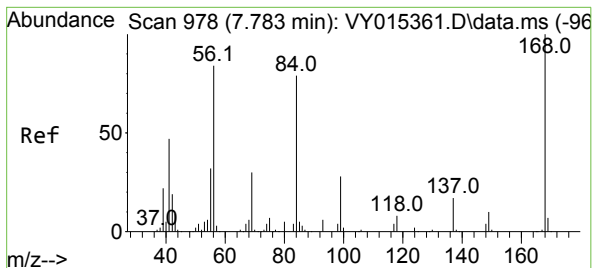
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 20 01:39:40 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.801 min Scan# 91

Delta R.T. 0.018 min

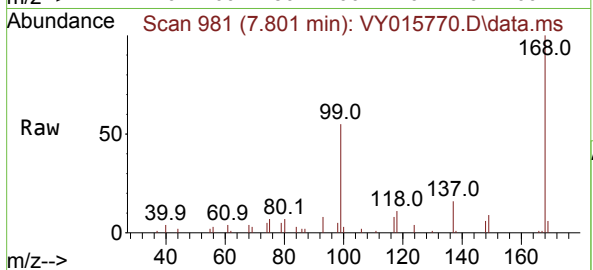
Lab File: VY015770.D

Acq: 29 Sep 2023 21:46

Instrument :

MSVOA_Y

ClientSampleId :

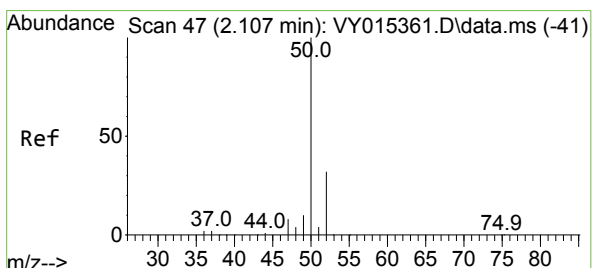
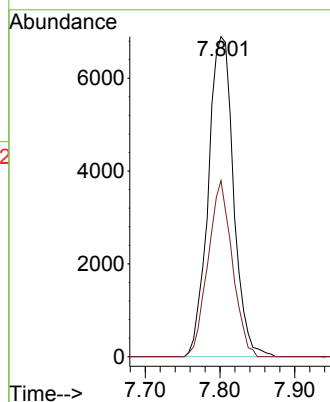
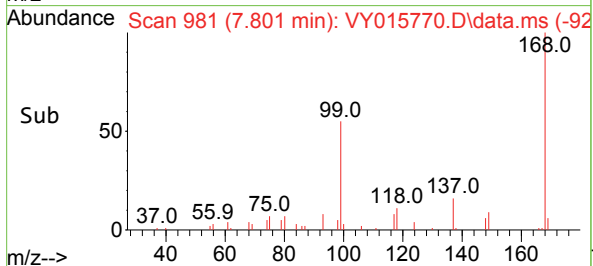


Tgt Ion:168 Resp: 16200

Ion Ratio Lower Upper

168 100

99 55.0 43.4 65.0



#3

Chloromethane

Concen: 1.581 ug/l

RT: 2.119 min Scan# 49

Delta R.T. 0.012 min

Lab File: VY015770.D

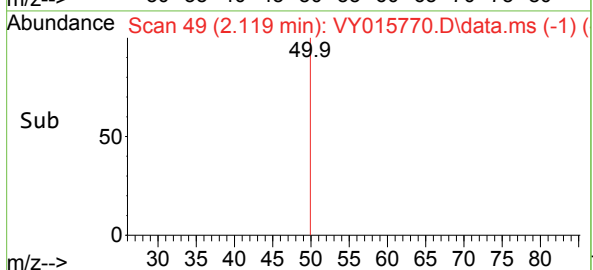
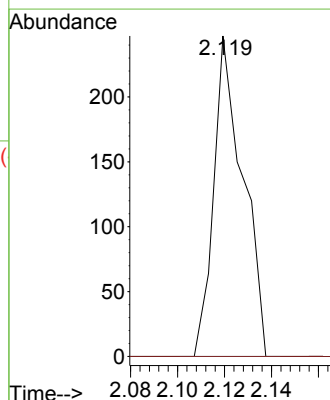
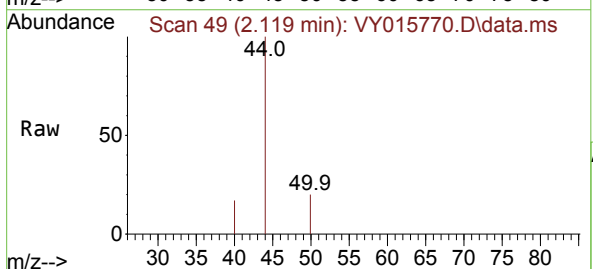
Acq: 29 Sep 2023 21:46

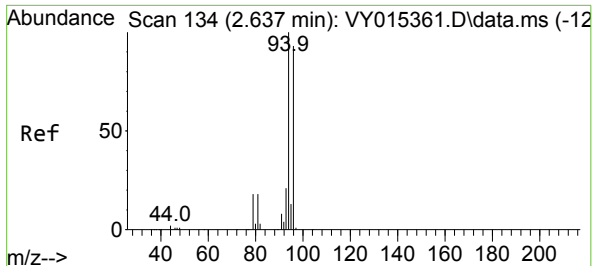
Tgt Ion: 50 Resp: 213

Ion Ratio Lower Upper

50 100

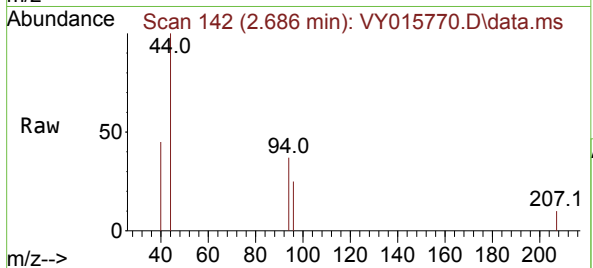
52 0.0 25.4 38.2#



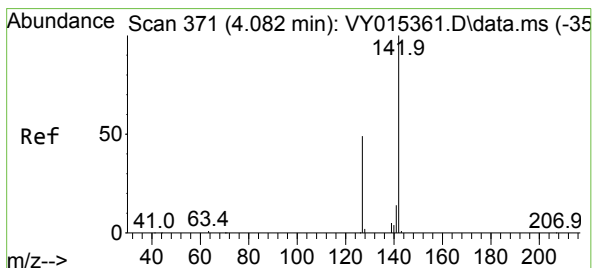
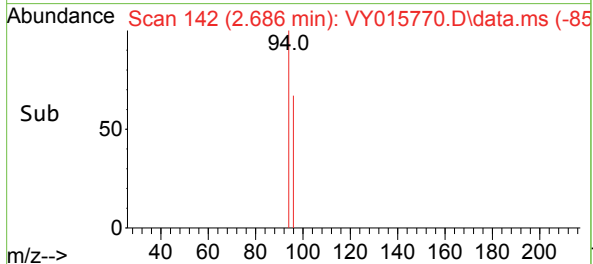
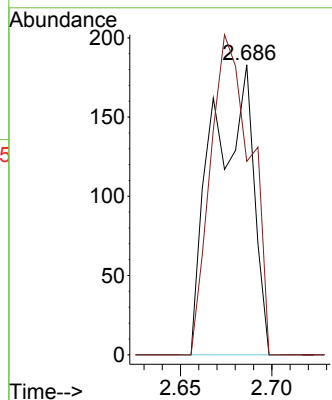


#5
Bromomethane
Concen: 4.301 ug/l
RT: 2.686 min Scan# 14
Delta R.T. 0.049 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

Instrument :
MSVOA_Y
ClientSampleId :

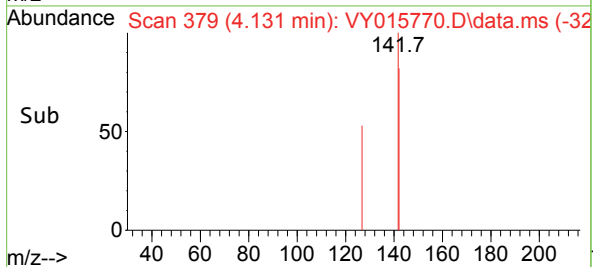
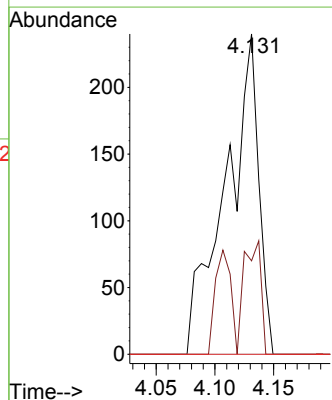
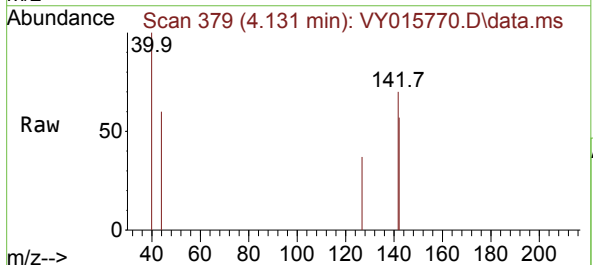


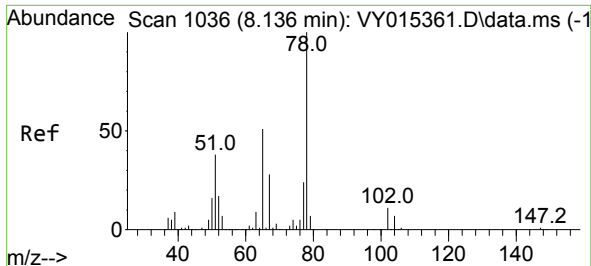
Tgt Ion: 94 Resp: 280
Ion Ratio Lower Upper
94 100
96 66.7 75.8 113.6#



#10
Methyl Iodide
Concen: 5.060 ug/l
RT: 4.131 min Scan# 379
Delta R.T. 0.049 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

Tgt Ion:142 Resp: 469
Ion Ratio Lower Upper
142 100
127 18.1 37.6 56.4#
141 0.0 11.8 17.8#

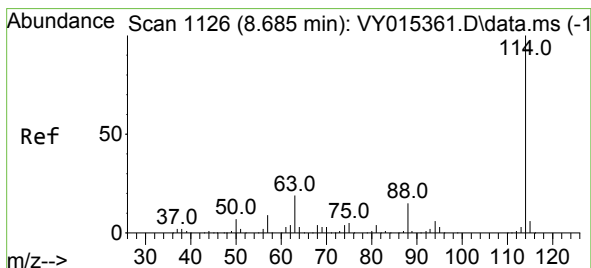
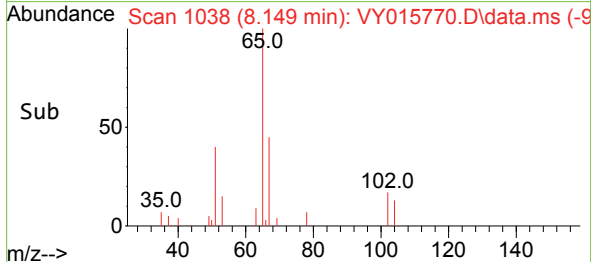
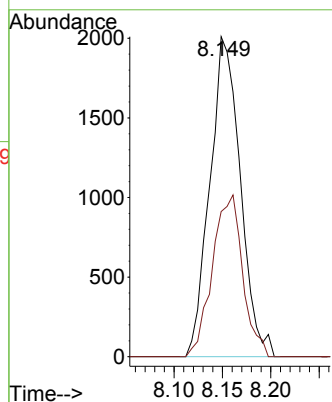
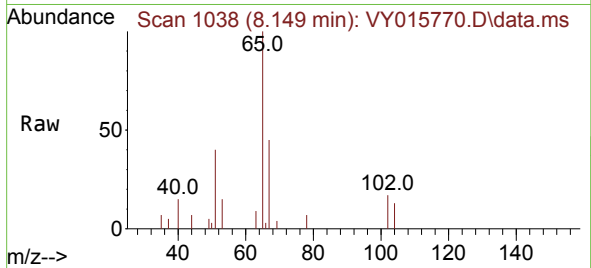




#33
1,2-Dichloroethane-d4
Concen: 24.651 ug/l
RT: 8.149 min Scan# 110
Delta R.T. 0.013 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

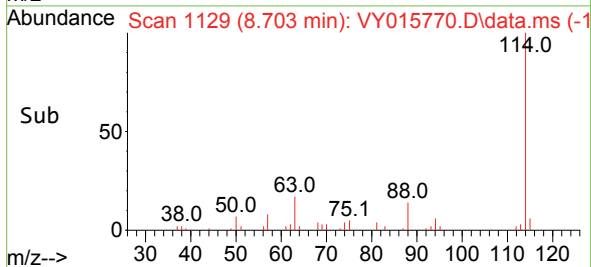
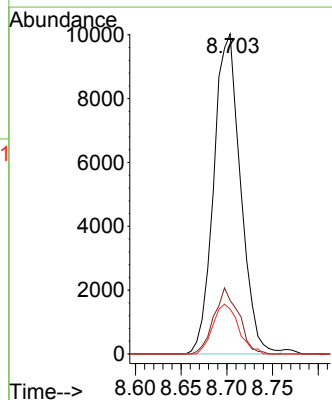
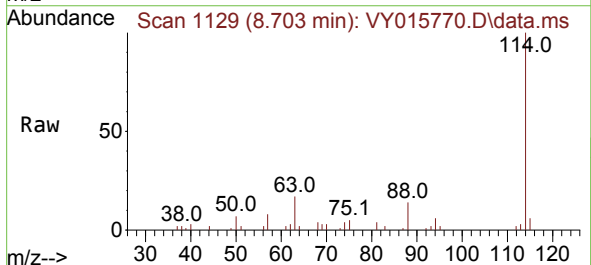
Instrument :
MSVOA_Y
ClientSampleId :

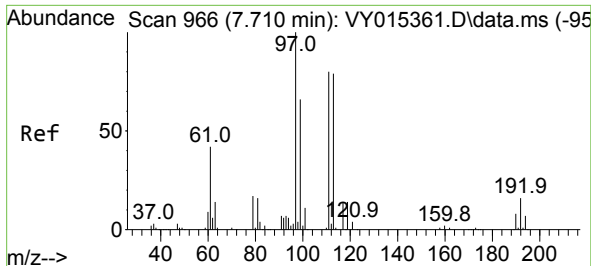
Tgt Ion: 65 Resp: 4394
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.703 min Scan# 1129
Delta R.T. 0.018 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

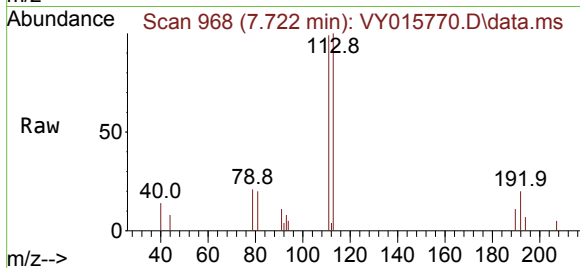
Tgt Ion: 114 Resp: 20437
Ion Ratio Lower Upper
114 100
63 16.7 0.0 42.4
88 14.0 0.0 30.6



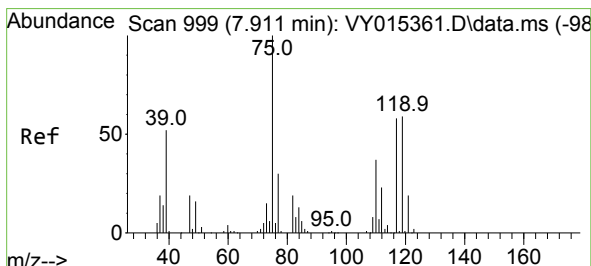
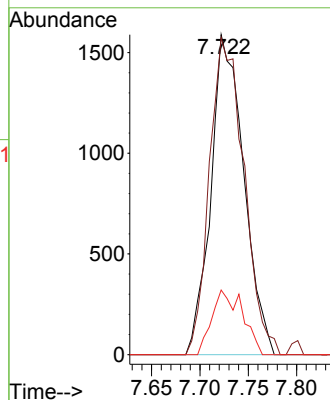
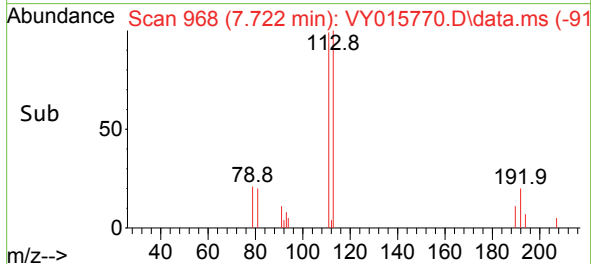


#35
Dibromofluoromethane
Concen: 30.730 ug/l
RT: 7.722 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

Instrument :
MSVOA_Y
ClientSampleId :

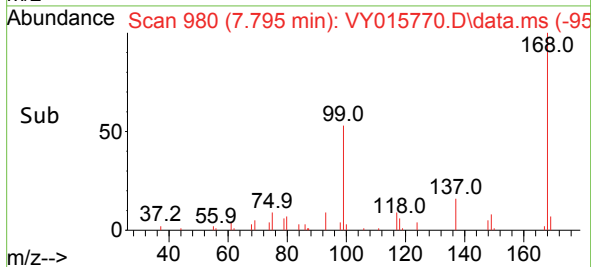
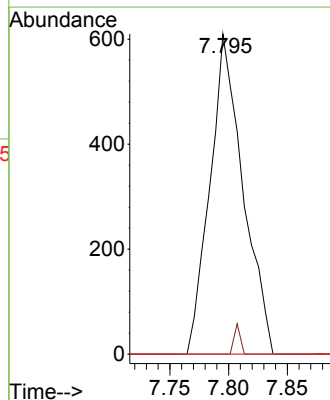
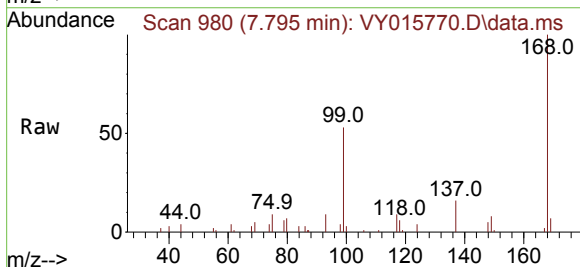


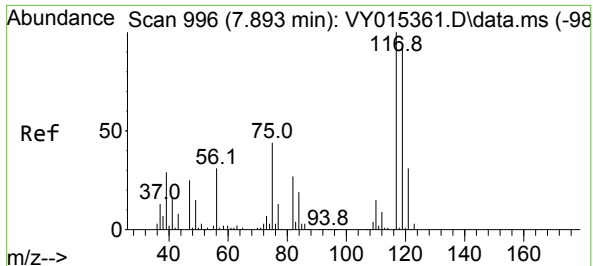
Tgt Ion:113 Resp: 3759
Ion Ratio Lower Upper
113 100
111 103.6 81.3 121.9
192 18.8 16.9 25.3



#36
1,1-Dichloropropene
Concen: 6.602 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.116 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

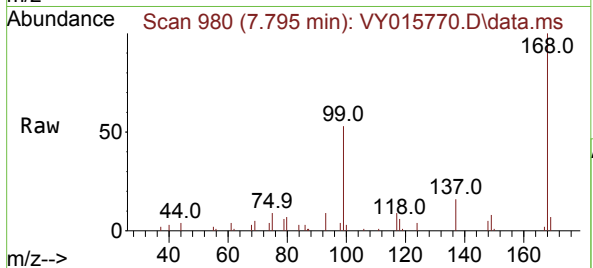
Tgt Ion: 75 Resp: 1194
Ion Ratio Lower Upper
75 100
110 1.8 17.8 53.5#
77 0.0 24.4 36.6#



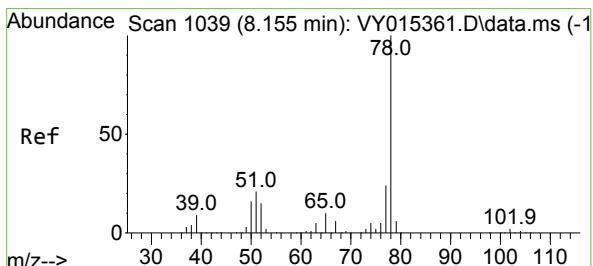
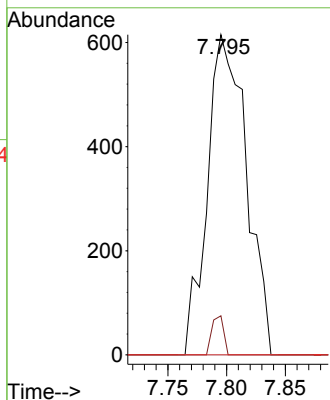
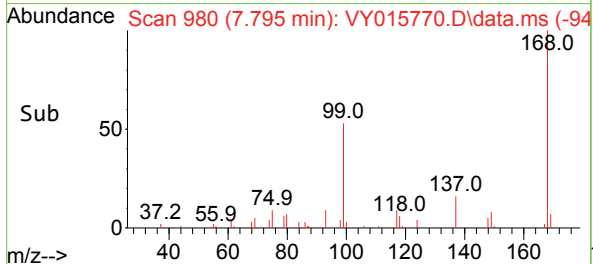


#38
Carbon Tetrachloride
Concen: 7.253 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.098 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

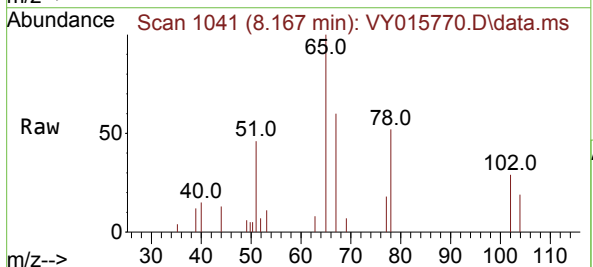
Instrument :
MSVOA_Y
ClientSampleId :



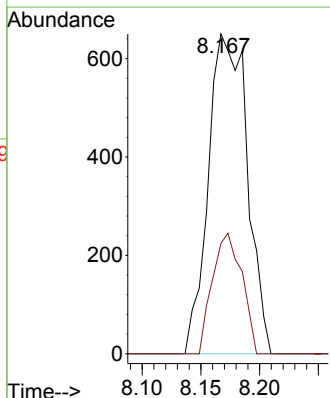
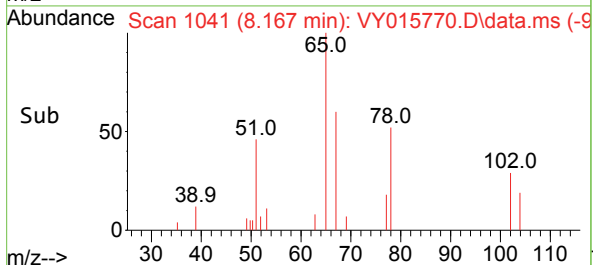
Tgt Ion:117 Resp: 1424
Ion Ratio Lower Upper
117 100
119 12.2 76.4 114.6#
121 0.0 25.8 38.6#

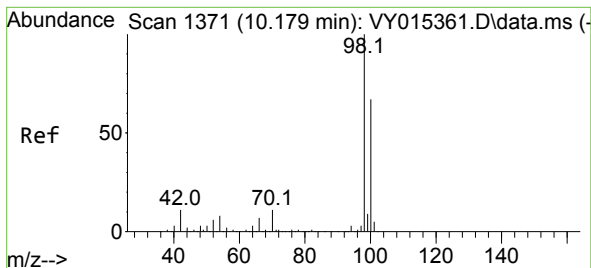


#40
Benzene
Concen: 2.709 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. 0.018 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46



Tgt Ion: 78 Resp: 1494
Ion Ratio Lower Upper
78 100
77 34.5 19.0 28.6#





#50

Toluene-d8

Concen: 52.648 ug/l

RT: 10.191 min Scan# 1373

Delta R.T. 0.012 min

Lab File: VY015770.D

Acq: 29 Sep 2023 21:46

Instrument :

MSVOA_Y

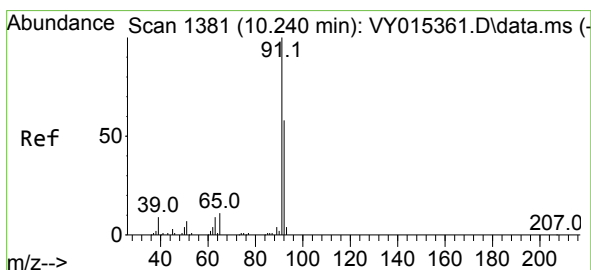
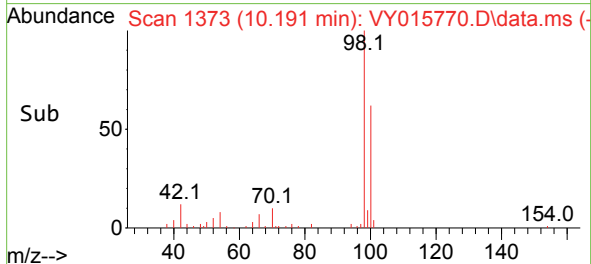
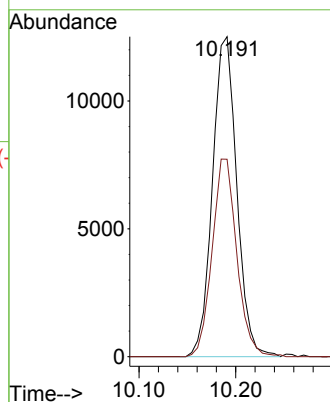
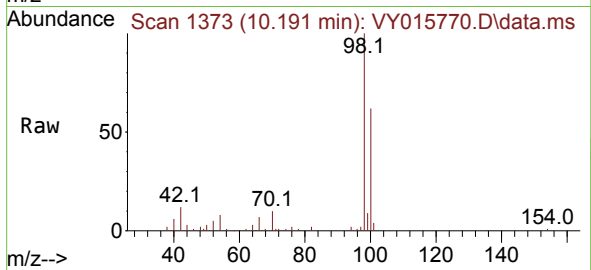
ClientSampleId :

Tgt Ion: 98 Resp: 21836

Ion Ratio Lower Upper

98 100

100 62.9 50.1 75.1



#52

Toluene

Concen: 10.659 ug/l

RT: 10.252 min Scan# 1383

Delta R.T. 0.012 min

Lab File: VY015770.D

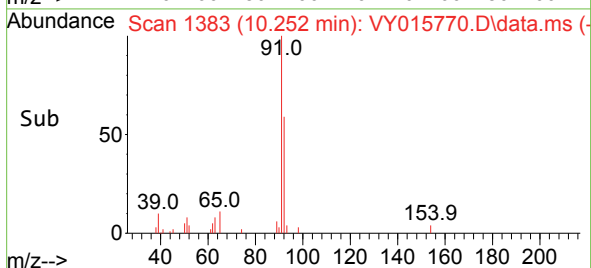
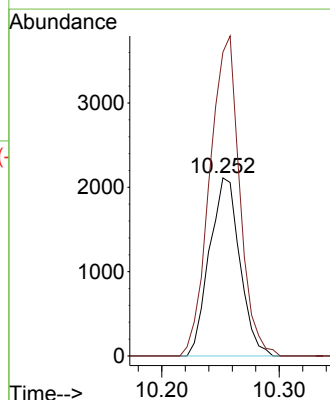
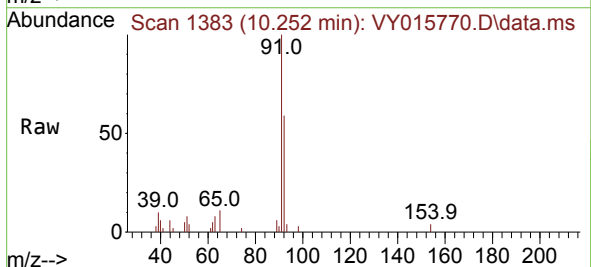
Acq: 29 Sep 2023 21:46

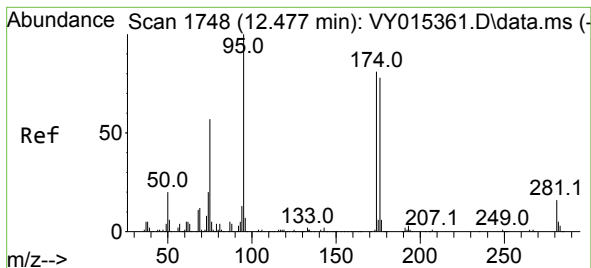
Tgt Ion: 92 Resp: 3790

Ion Ratio Lower Upper

92 100

91 176.9 143.8 215.6

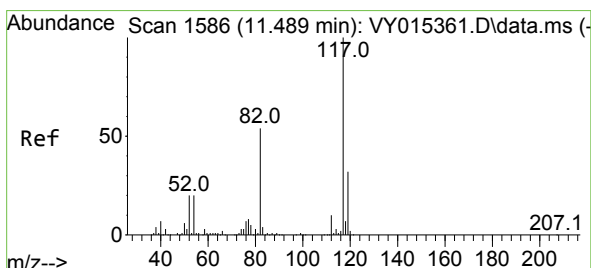
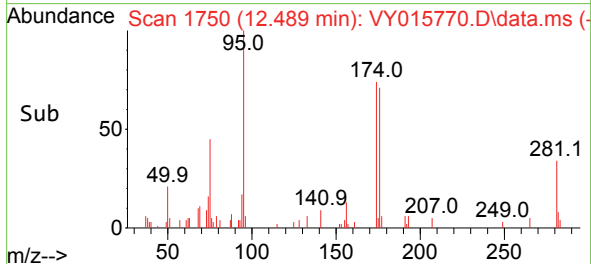
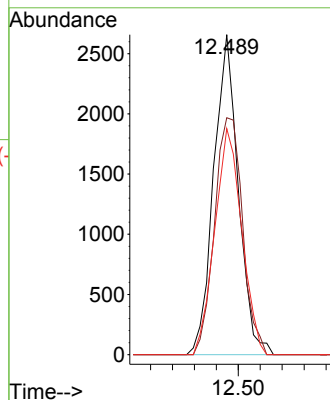
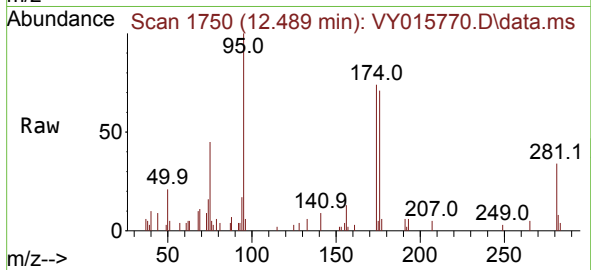




#62
4-Bromofluorobenzene
Concen: 25.393 ug/l
RT: 12.489 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

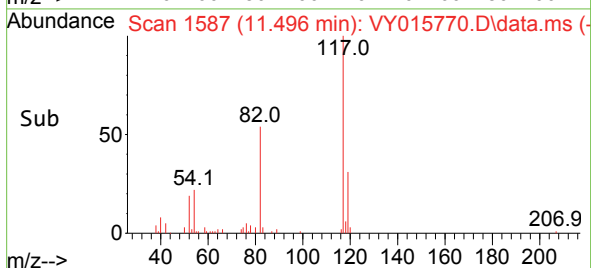
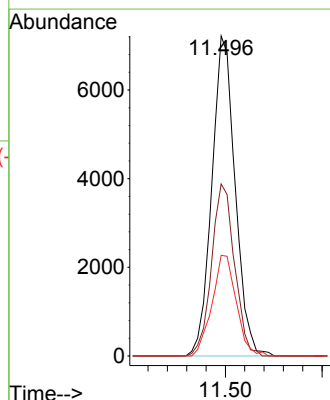
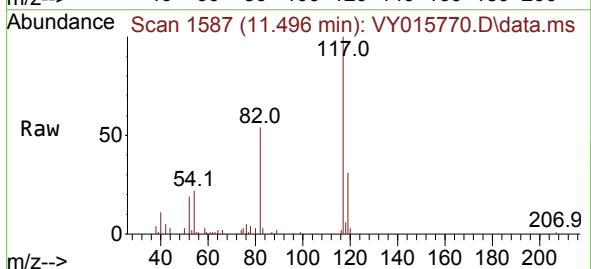
Instrument :
MSVOA_Y
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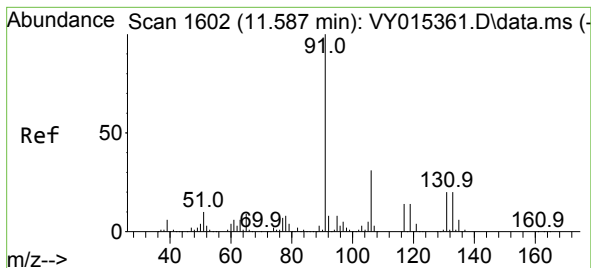
Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.5	0.0	178.2
176	77.8	0.0	173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. 0.007 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.7	43.4	65.0
119	31.5	26.3	39.5





#67

Ethyl Benzene

Concen: 7.951 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. 0.012 min

Lab File: VY015770.D

Acq: 29 Sep 2023 21:46

Instrument :

MSVOA_Y

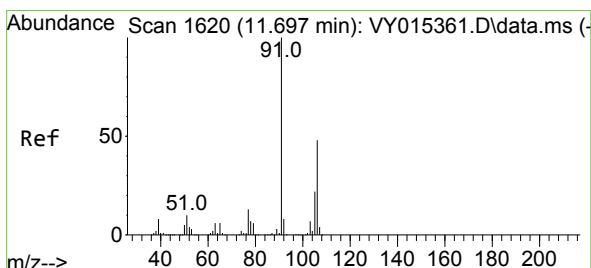
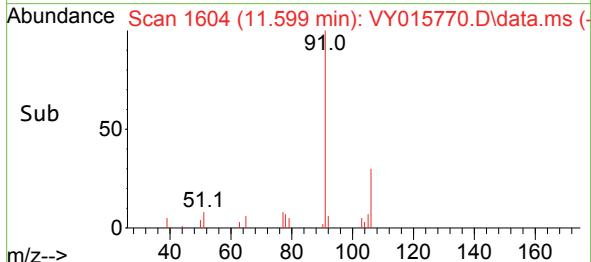
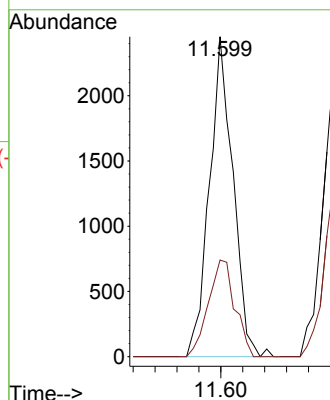
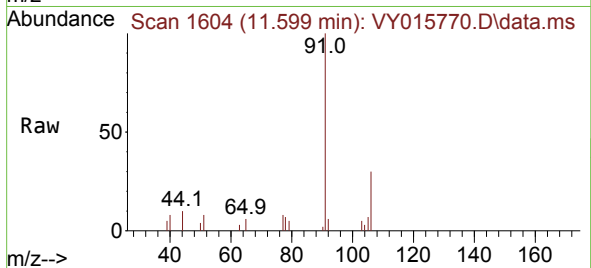
ClientSampleId :

Tgt Ion: 91 Resp: 3665

Ion Ratio Lower Upper

91 100

106 30.2 24.6 36.8



#68

m/p-Xylenes

Concen: 13.317 ug/l

RT: 11.709 min Scan# 1622

Delta R.T. 0.006 min

Lab File: VY015770.D

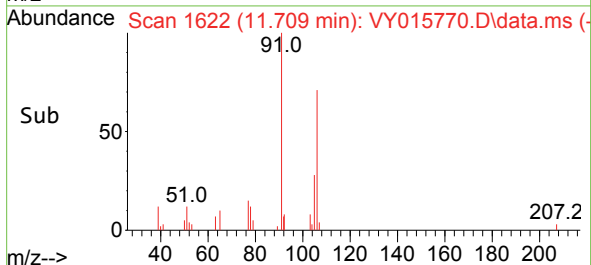
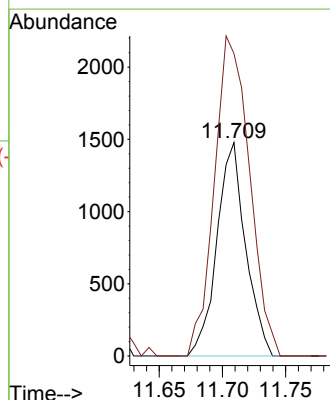
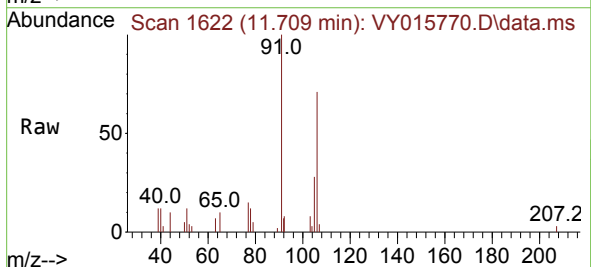
Acq: 29 Sep 2023 21:46

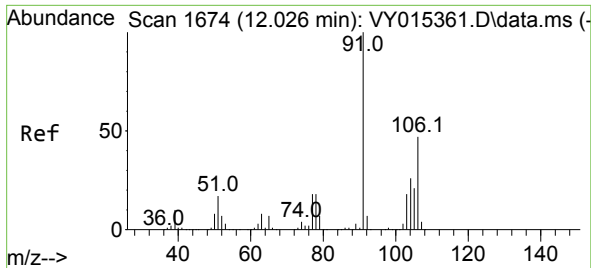
Tgt Ion:106 Resp: 2333

Ion Ratio Lower Upper

106 100

91 183.6 166.1 249.1

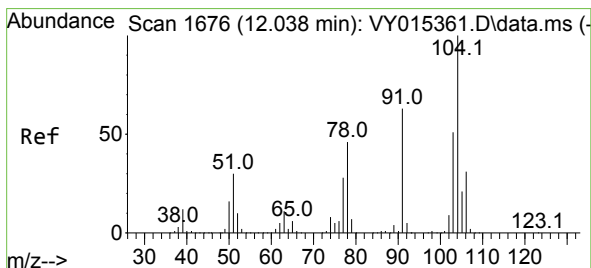
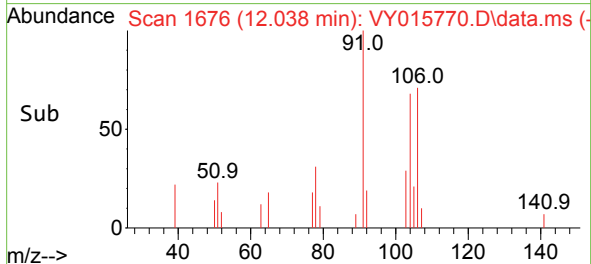
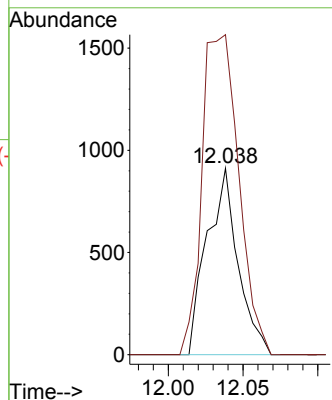
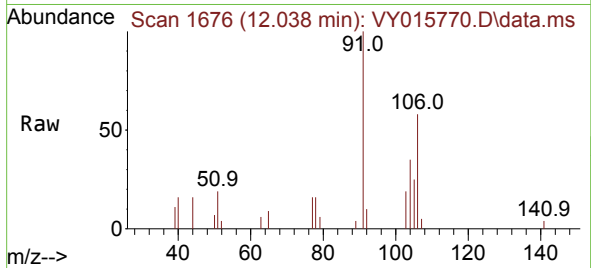




#69
o-Xylene
Concen: 7.672 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.012 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

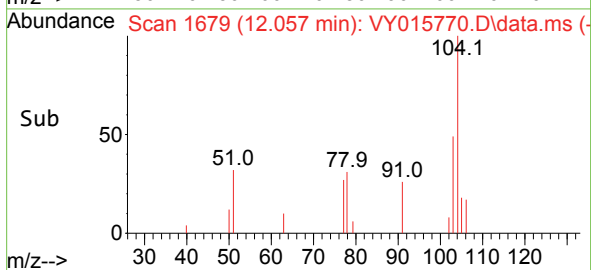
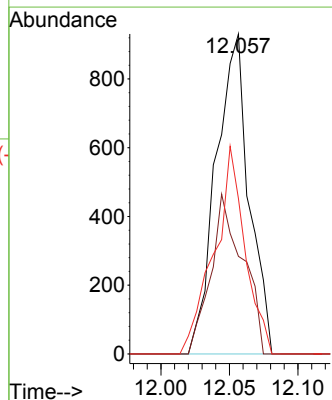
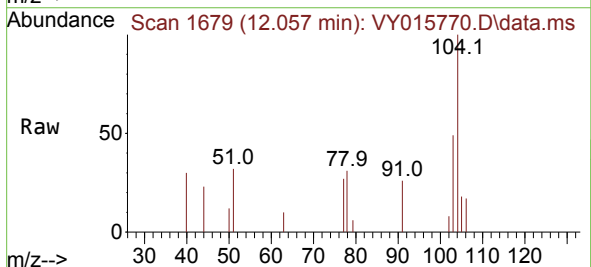
Instrument :
MSVOA_Y
ClientSampleId :

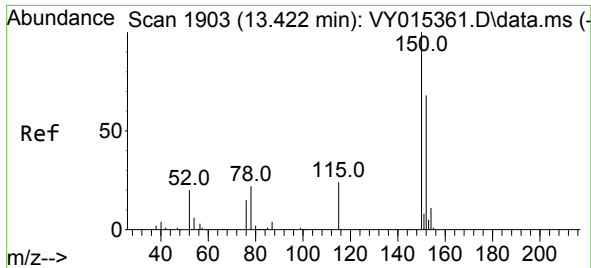
Tgt Ion:106 Resp: 1318
Ion Ratio Lower Upper
106 100
91 203.4 108.1 324.3



#70
Styrene
Concen: 5.305 ug/l
RT: 12.057 min Scan# 1679
Delta R.T. 0.013 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

Tgt Ion:104 Resp: 1560
Ion Ratio Lower Upper
104 100
78 48.5 41.5 62.3
103 60.9 44.6 67.0

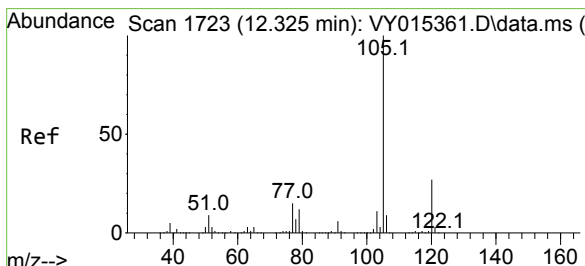
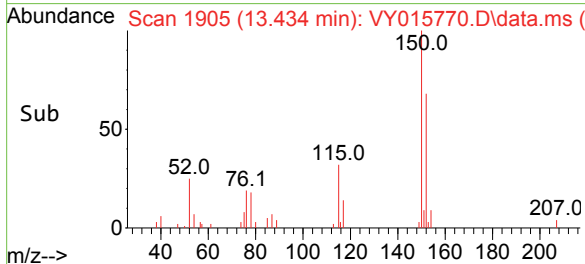
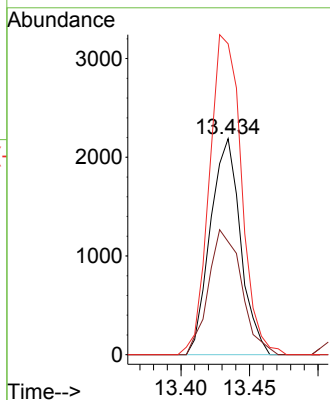
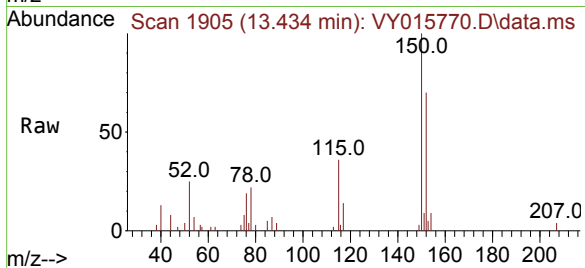




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1903
Delta R.T. 0.012 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

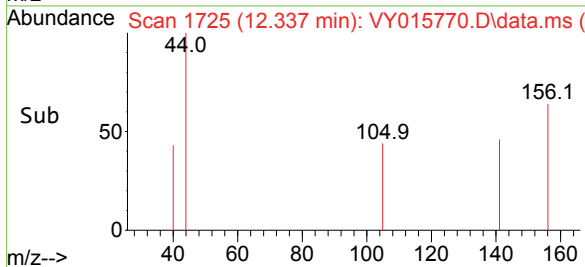
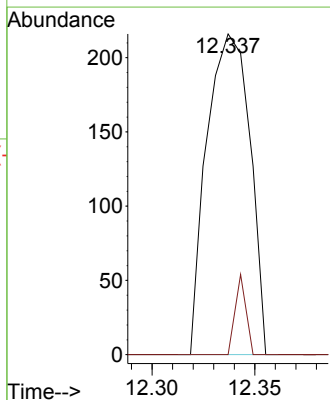
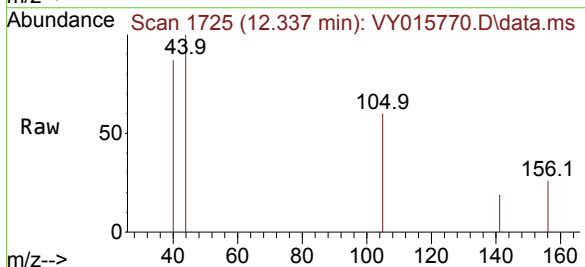
Instrument :
MSVOA_Y
ClientSampleId :

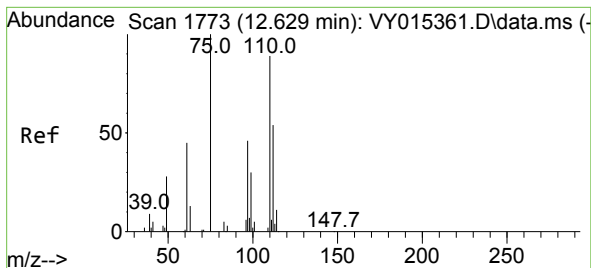
Tgt Ion:152 Resp: 3360
Ion Ratio Lower Upper
152 100
115 63.3 28.8 86.5
150 156.7 0.0 348.8



#73
Isopropylbenzene
Concen: 1.250 ug/l
RT: 12.337 min Scan# 1725
Delta R.T. 0.012 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

Tgt Ion:105 Resp: 315
Ion Ratio Lower Upper
105 100
120 6.3 13.3 39.9#





#76

1,2,3-Trichloropropane

Concen: 42.031 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.140 min

Lab File: VY015770.D

Acq: 29 Sep 2023 21:46

Instrument :

MSVOA_Y

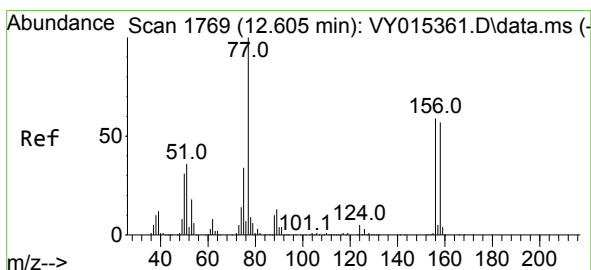
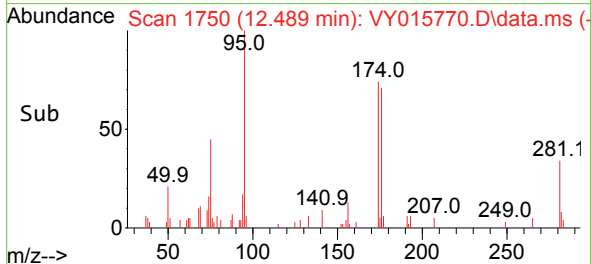
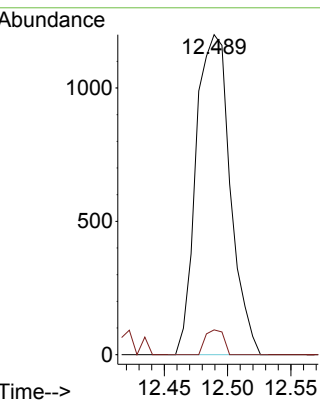
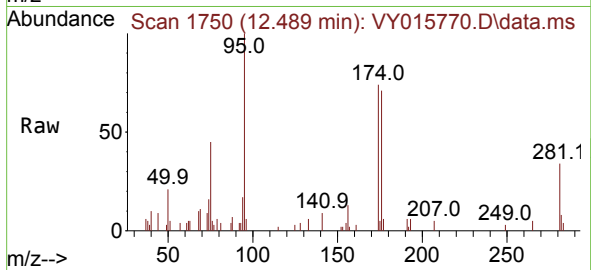
ClientSampleId :

Tgt Ion: 75 Resp: 2253

Ion Ratio Lower Upper

75 100

77 4.2 0.0 0.0#



#77

Bromobenzene

Concen: 24.631 ug/l

RT: 12.404 min Scan# 1736

Delta R.T. -0.201 min

Lab File: VY015770.D

Acq: 29 Sep 2023 21:46

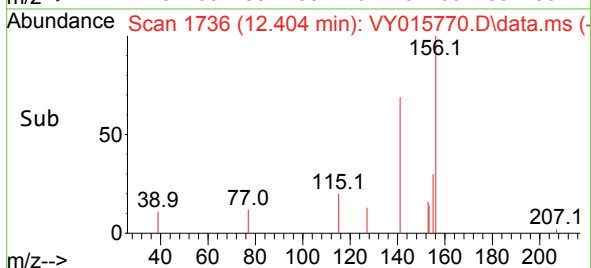
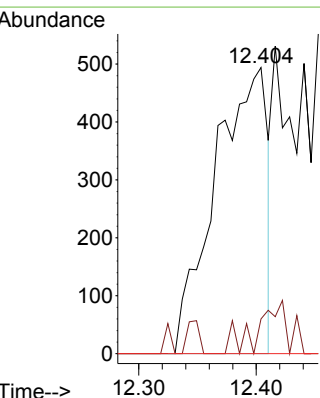
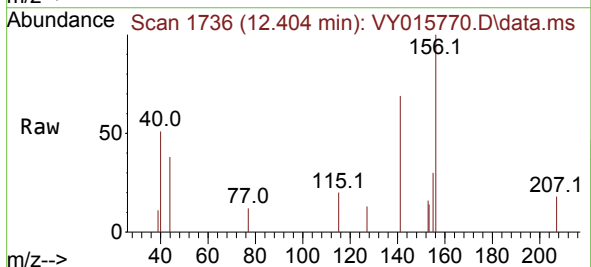
Tgt Ion: 156 Resp: 1524

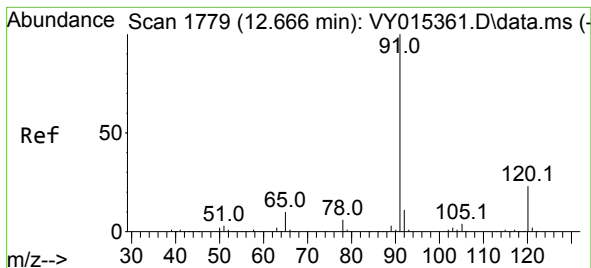
Ion Ratio Lower Upper

156 100

77 9.8 92.8 278.6#

158 0.0 48.4 145.3#





#78

n-propylbenzene

Concen: 1.460 ug/l

RT: 12.678 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY015770.D

Acq: 29 Sep 2023 21:46

Instrument :

MSVOA_Y

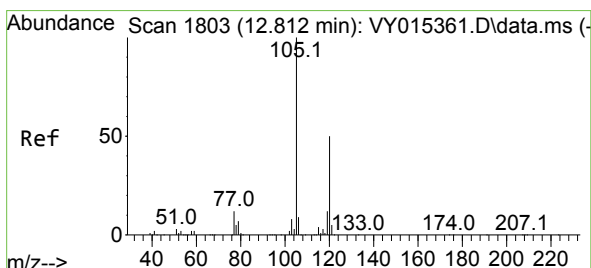
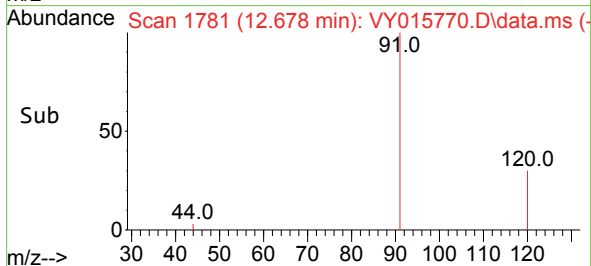
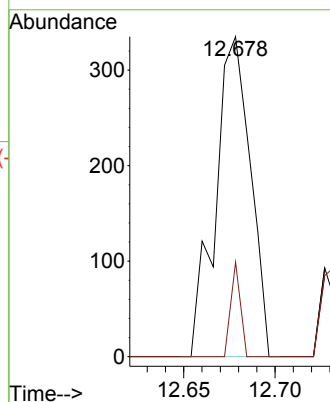
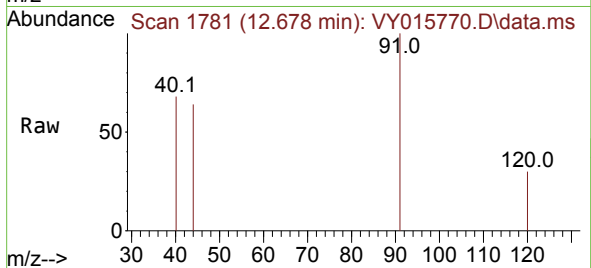
ClientSampleId :

Tgt Ion: 91 Resp: 447

Ion Ratio Lower Upper

91 100

120 8.1 11.5 34.4#



#80

1,3,5-Trimethylbenzene

Concen: 2.351 ug/l

RT: 12.813 min Scan# 1803

Delta R.T. 0.001 min

Lab File: VY015770.D

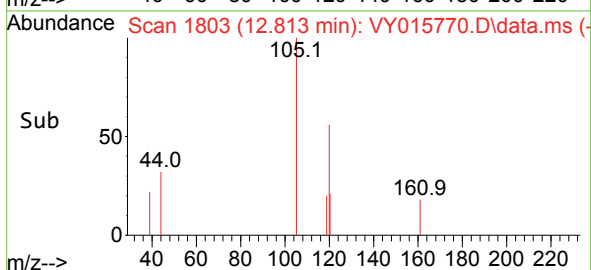
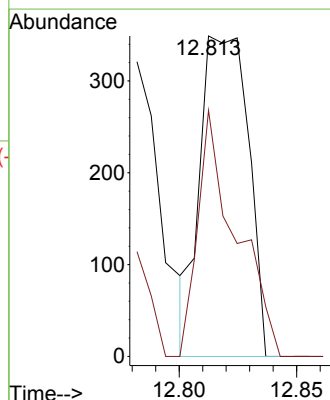
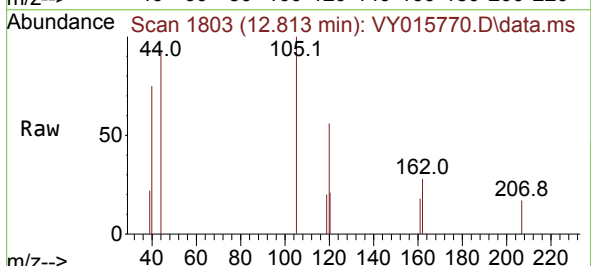
Acq: 29 Sep 2023 21:46

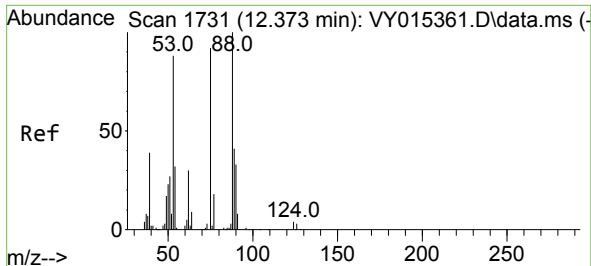
Tgt Ion: 105 Resp: 496

Ion Ratio Lower Upper

105 100

120 61.3 23.9 71.7

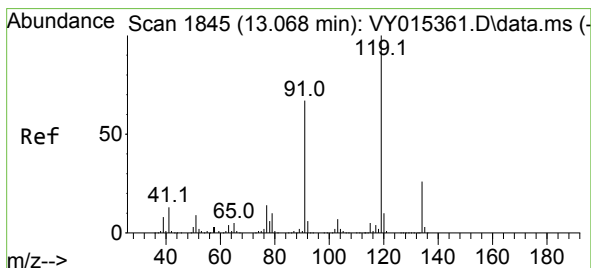
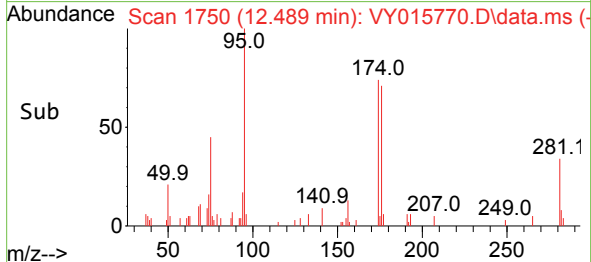
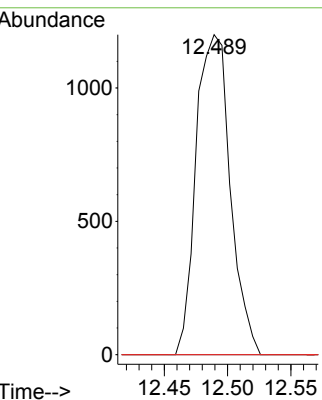
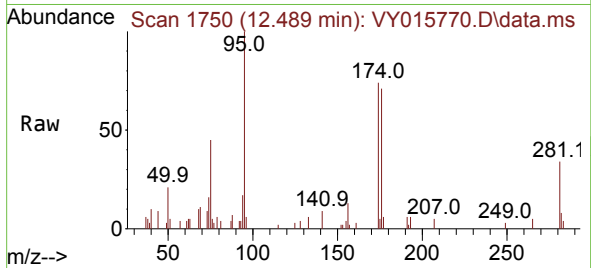




#81
trans-1,4-Dichloro-2-butene
Concen: 94.650 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.109 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

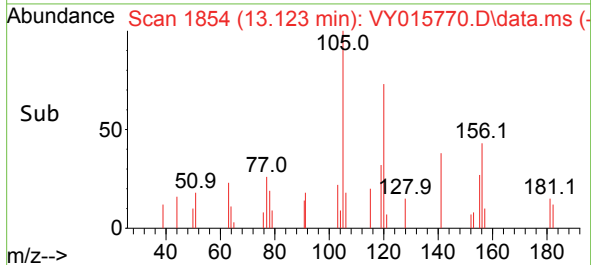
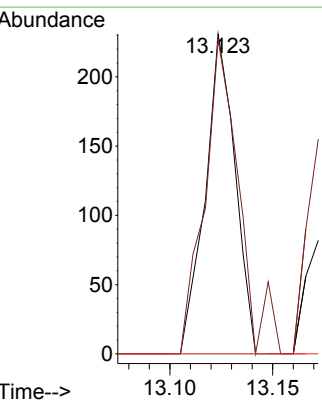
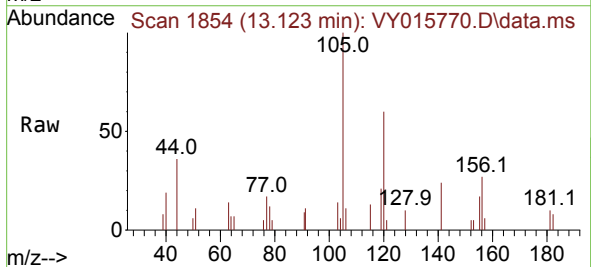
Instrument :
MSVOA_Y
ClientSampleId :

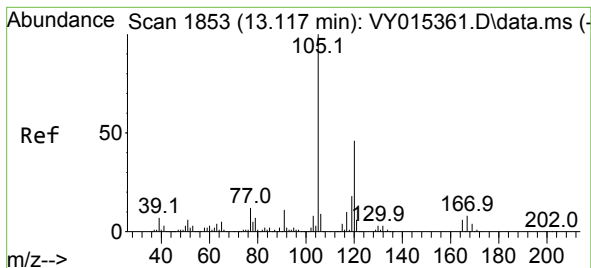
Tgt Ion: 75 Resp: 2253
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 37.4 56.0#



#83
tert-Butylbenzene
Concen: 1.266 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.048 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

Tgt Ion: 119 Resp: 234
Ion Ratio Lower Upper
119 100
91 113.7 32.9 98.6#
134 0.0 13.0 38.9#





#84

1,2,4-Trimethylbenzene

Concen: 9.037 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.006 min

Lab File: VY015770.D

Acq: 29 Sep 2023 21:46

Instrument :

MSVOA_Y

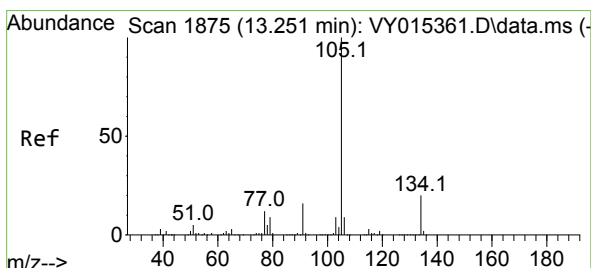
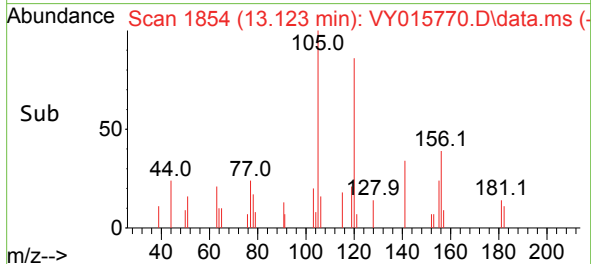
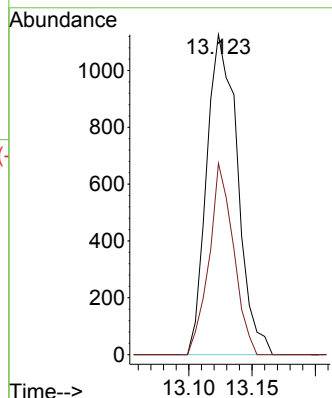
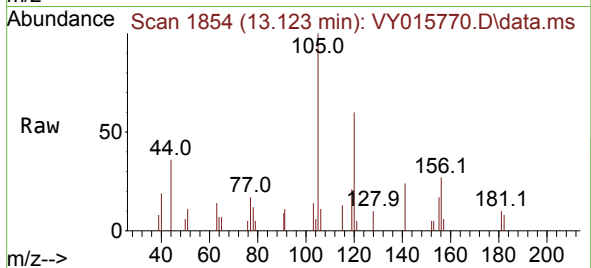
ClientSampleId :

Tgt Ion:105 Resp: 1908

Ion Ratio Lower Upper

105 100

120 47.4 22.2 66.6



#85

sec-Butylbenzene

Concen: 6.899 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.128 min

Lab File: VY015770.D

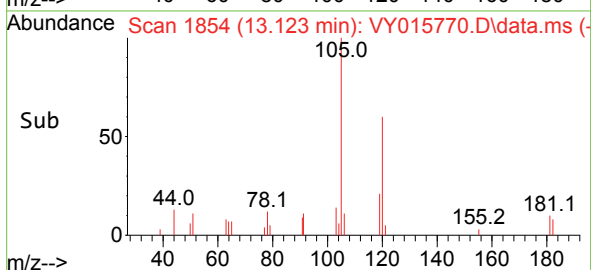
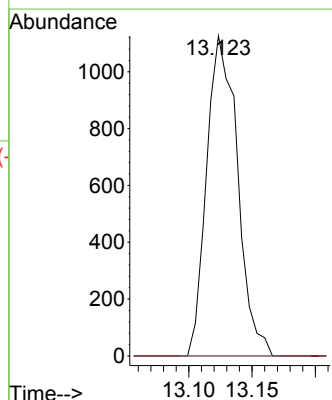
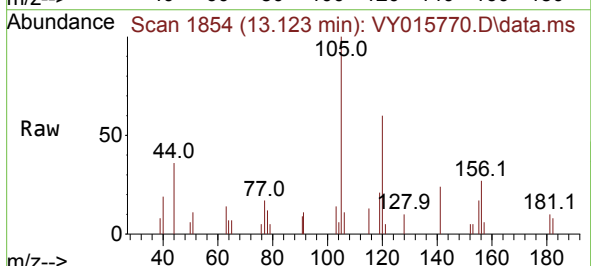
Acq: 29 Sep 2023 21:46

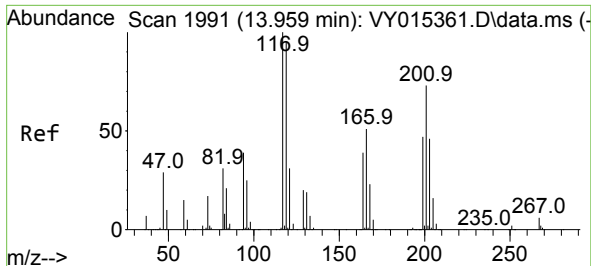
Tgt Ion:105 Resp: 1908

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#

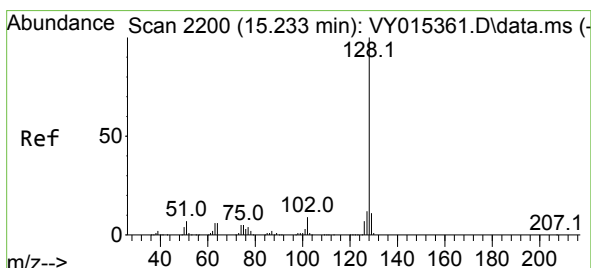
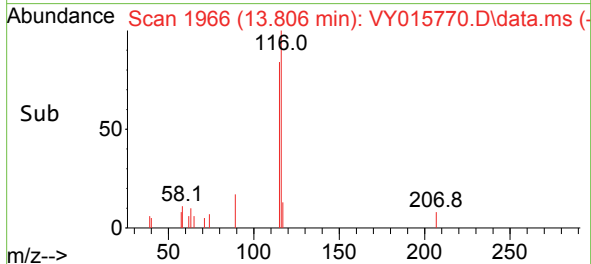
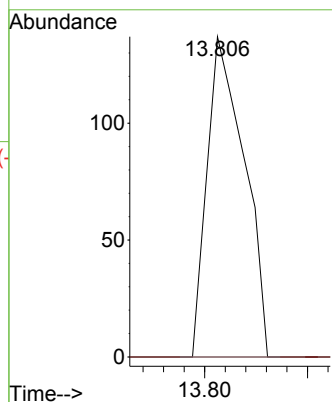
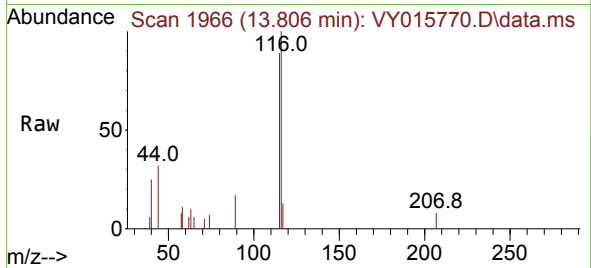




#90
Hexachloroethane
Concen: 3.857 ug/l
RT: 13.806 min Scan# 1991
Delta R.T. -0.153 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:117 Resp: 172
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



#95
Naphthalene
Concen: 171.835 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. 0.006 min
Lab File: VY015770.D
Acq: 29 Sep 2023 21:46

Tgt Ion:128 Resp: 31962
Ion Ratio Lower Upper
128 100
127 12.9 10.8 16.2
129 10.6 8.6 13.0

