

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101023\
 Data File : VY015901.D
 Acq On : 10 Oct 2023 16:52
 Operator : SY/MD
 Sample : 04767-02RE
 Misc : 6.65g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 11 01:21:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100923S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 10 07:06:18 2023
 Response via : Initial Calibration

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

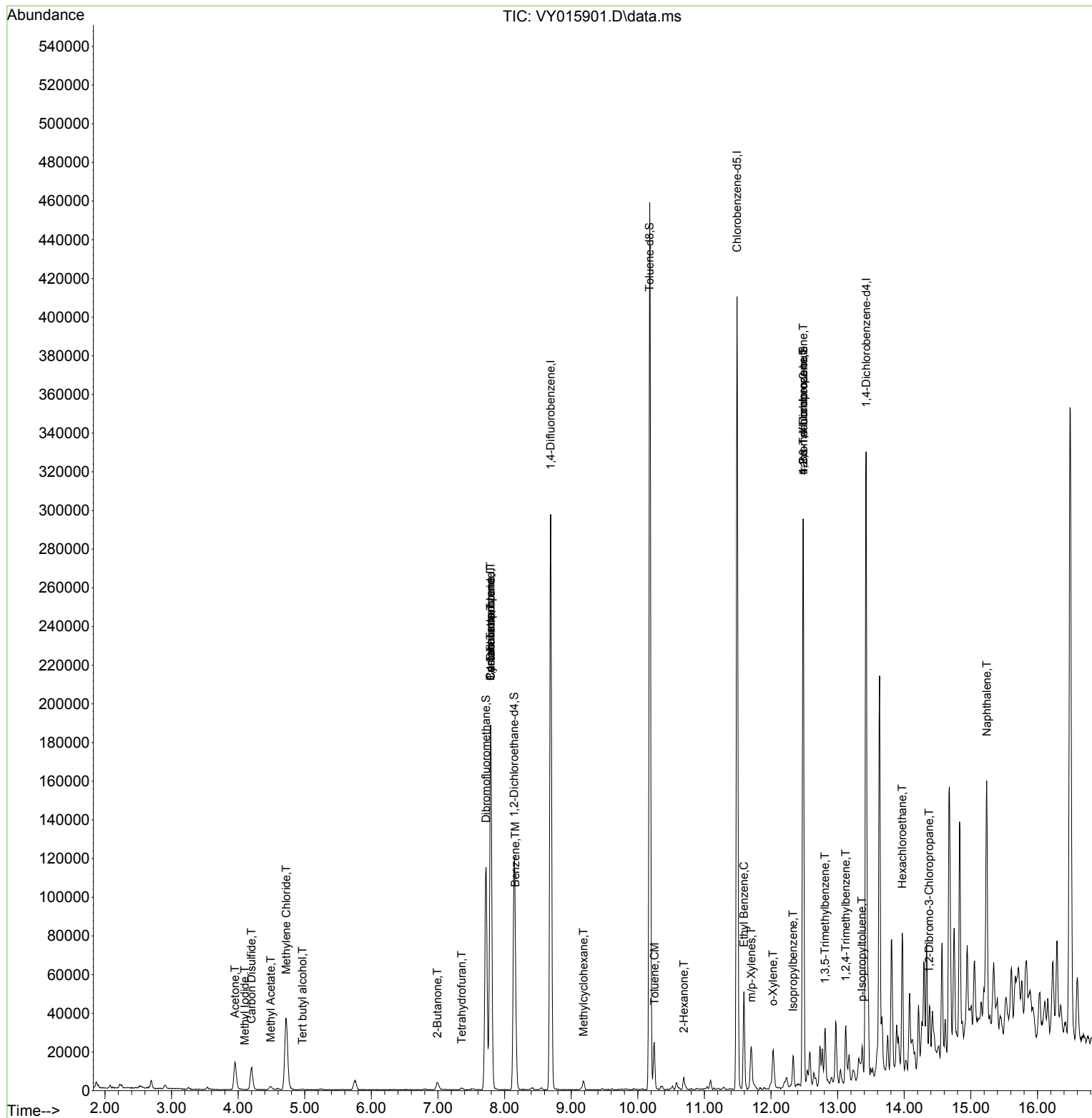
Internal Standards						
1) Pentafluorobenzene	7.789	168	148701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	259591	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	225018	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	83864	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	83938	62.734	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 125.460%			
35) Dibromofluoromethane	7.722	113	84054	58.051	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 116.100%			
50) Toluene-d8	10.179	98	301216	63.122	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 126.240%			
62) 4-Bromofluorobenzene	12.483	95	90198	46.536	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 93.080%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.101	142	74	2.336	ug/l #	38
11) Tert butyl alcohol	4.966	59	580	12.349	ug/l #	89
16) Acetone	3.954	43	24340	42.140	ug/l #	83
17) Carbon Disulfide	4.198	76	22875	19.561	ug/l	99
18) Methyl Acetate	4.491	43	3448	1.901	ug/l #	88
20) Methylene Chloride	4.722	84	29249	14.286	ug/l	87
25) 2-Butanone	6.990	43	6247	8.511	ug/l	94
29) Tetrahydrofuran	7.356	42	725	1.806	ug/l	97
31) Cyclohexane	7.789	56	3357	2.343	ug/l #	1
36) 1,1-Dichloropropene	7.789	75	11008	6.864	ug/l #	50
38) Carbon Tetrachloride	7.789	117	14339	7.445	ug/l #	17
39) Methylcyclohexane	9.185	83	2070	1.271	ug/l #	86
40) Benzene	8.161	78	30002	5.953	ug/l	100
52) Toluene	10.252	92	10040	3.001	ug/l	97
59) 2-Hexanone	10.691	43	4304	3.730	ug/l	76
67) Ethyl Benzene	11.593	91	32675	4.853	ug/l	96
68) m/p-Xylenes	11.703	106	7212	2.842	ug/l	92
69) o-Xylene	12.032	106	4778	1.882	ug/l	97
73) Isopropylbenzene	12.331	105	5839	1.104	ug/l	99
76) 1,2,3-Trichloropropane	12.483	75	46931	47.937	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.812	105	10983	2.519	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.483	75	46931	106.301	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.123	105	15769	3.591	ug/l	98
86) p-Isopropyltoluene	13.367	119	7183	1.455	ug/l	98
90) Hexachloroethane	13.971	117	3866	3.902	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.373	75	359	1.490	ug/l #	3
95) Naphthalene	15.239	128	103347	28.714	ug/l #	96

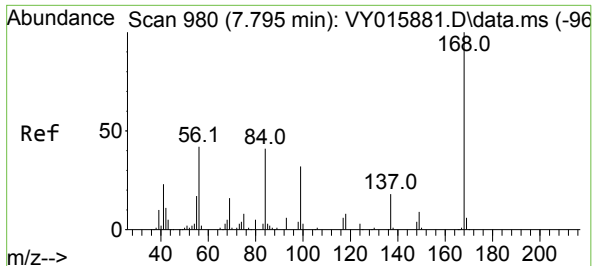
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

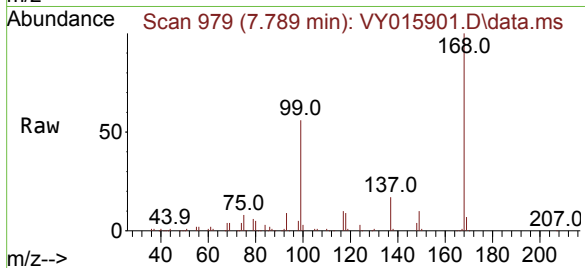
Quant Time: Oct 11 01:21:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100923S.M
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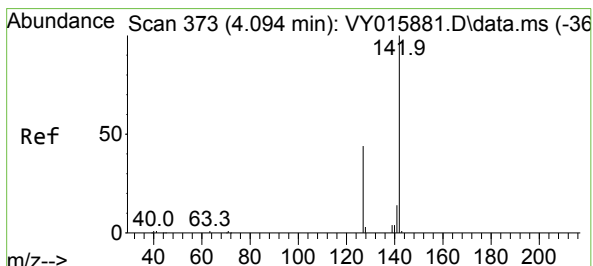
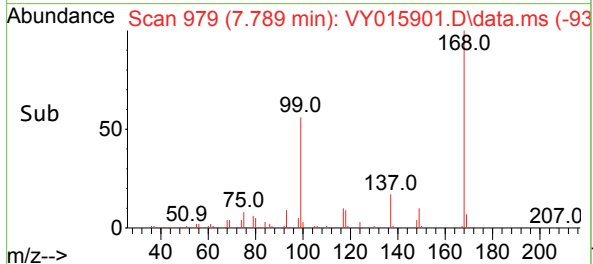
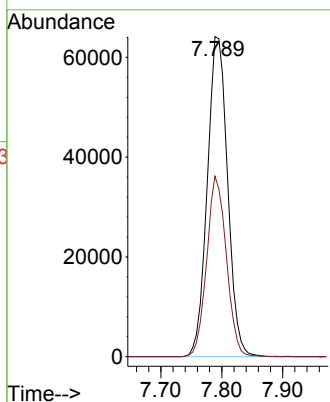


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

Instrument :
MSVOA_Y
ClientSampleId :

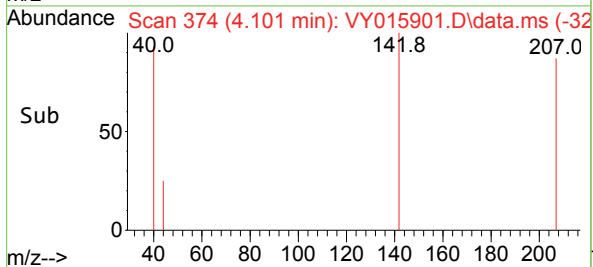
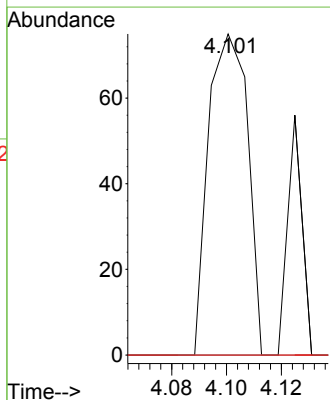
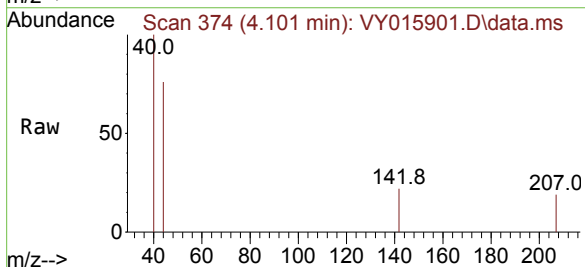


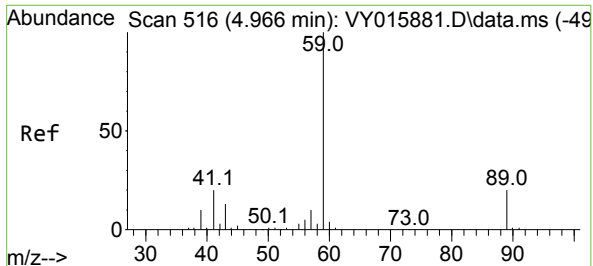
Tgt Ion:168 Resp: 148701
Ion Ratio Lower Upper
168 100
99 56.4 43.4 65.0



#10
Methyl Iodide
Concen: 2.336 ug/l
RT: 4.101 min Scan# 374
Delta R.T. 0.007 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

Tgt Ion:142 Resp: 74
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#





#11

Tert butyl alcohol

Concen: 12.349 ug/l

RT: 4.966 min Scan# 516

Delta R.T. 0.000 min

Lab File: VY015901.D

Acq: 10 Oct 2023 16:52

Instrument :

MSVOA_Y

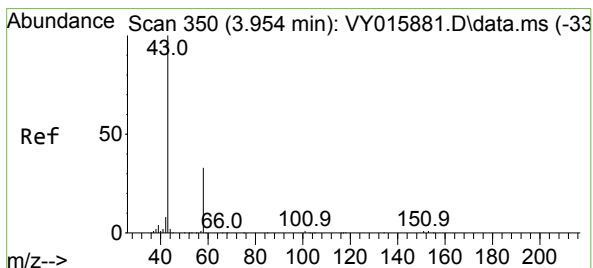
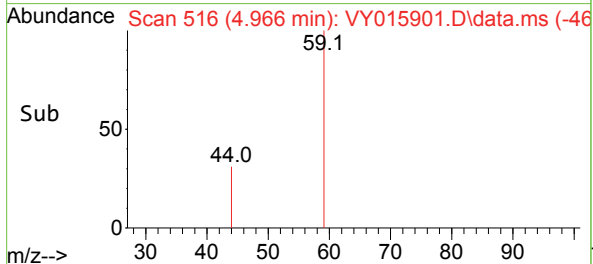
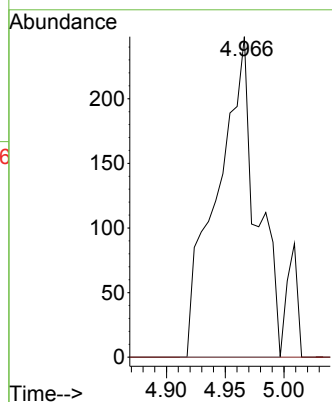
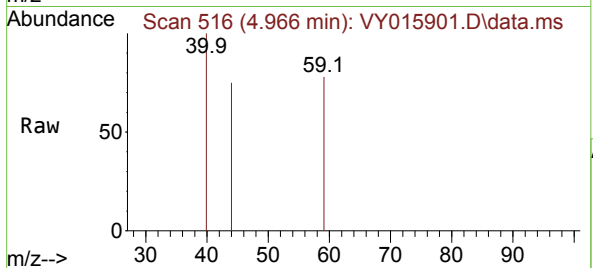
ClientSampleId :

Tgt Ion: 59 Resp: 580

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.4#



#16

Acetone

Concen: 42.140 ug/l

RT: 3.954 min Scan# 350

Delta R.T. 0.000 min

Lab File: VY015901.D

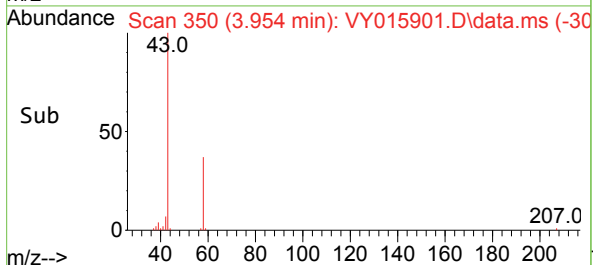
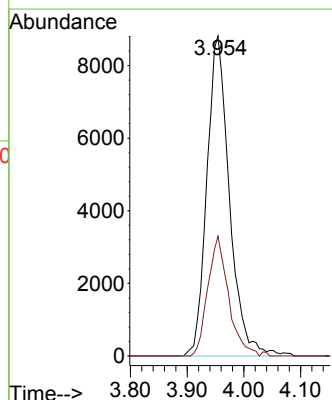
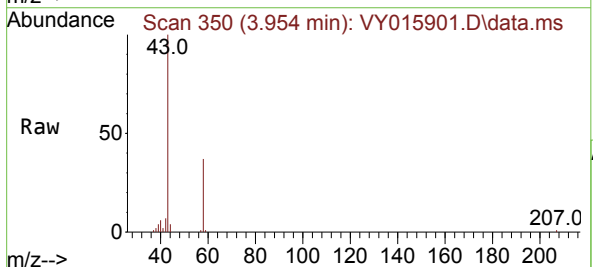
Acq: 10 Oct 2023 16:52

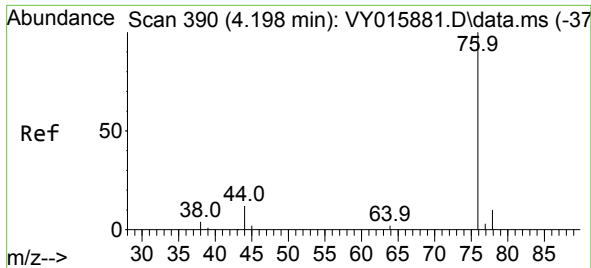
Tgt Ion: 43 Resp: 24340

Ion Ratio Lower Upper

43 100

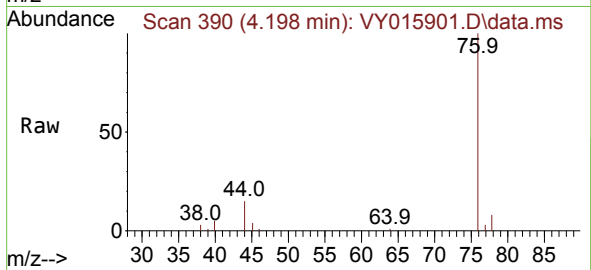
58 37.4 22.7 34.1#



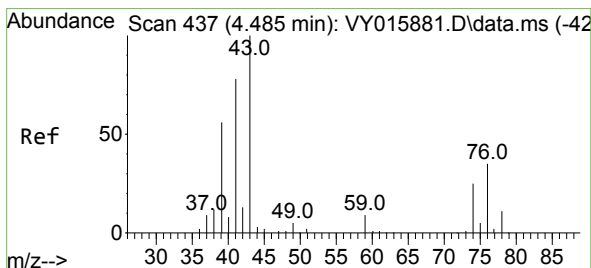
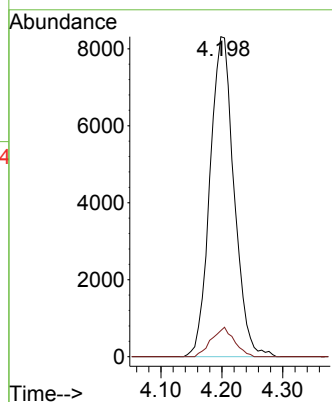
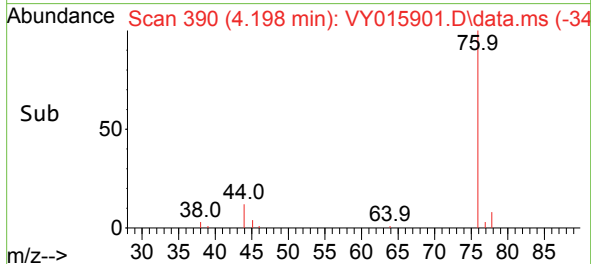


#17
Carbon Disulfide
Concen: 19.561 ug/l
RT: 4.198 min Scan# 390
Delta R.T. 0.000 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

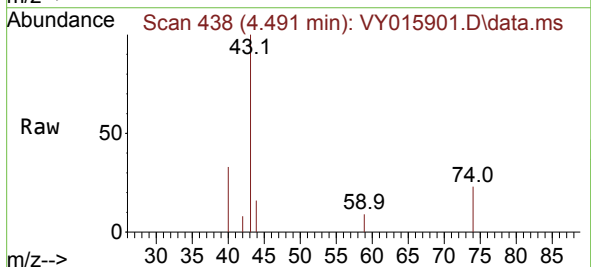
Instrument :
MSVOA_Y
ClientSampleId :



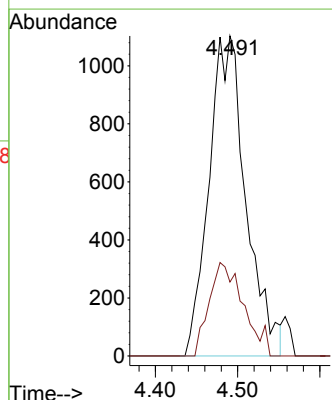
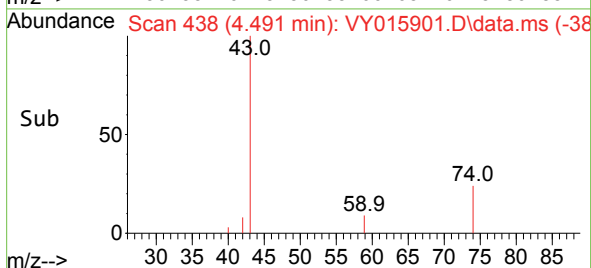
Tgt Ion: 76 Resp: 22875
Ion Ratio Lower Upper
76 100
78 8.2 7.0 10.4

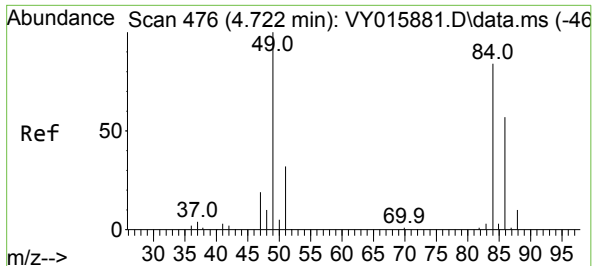


#18
Methyl Acetate
Concen: 1.901 ug/l
RT: 4.491 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52



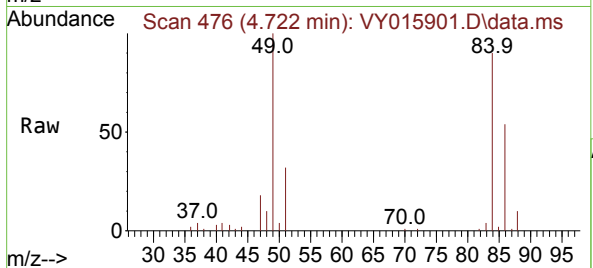
Tgt Ion: 43 Resp: 3448
Ion Ratio Lower Upper
43 100
74 27.2 17.4 26.0#



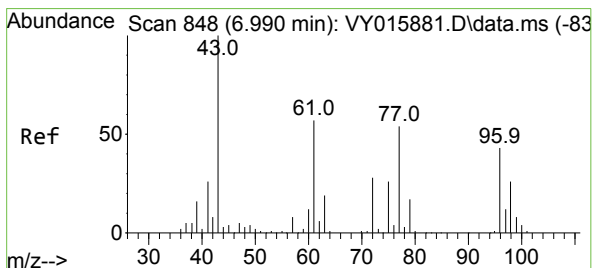
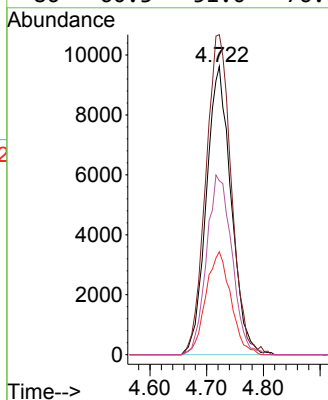
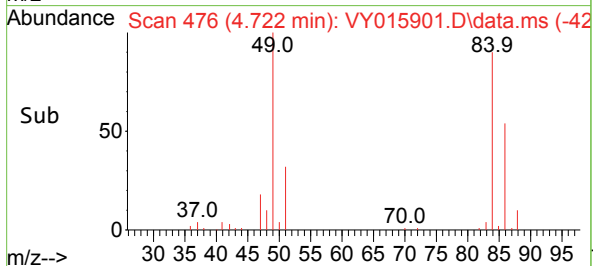


#20
Methylene Chloride
Concen: 14.286 ug/l
RT: 4.722 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

Instrument :
MSVOA_Y
ClientSampleId :

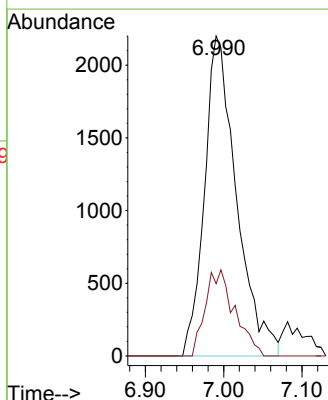
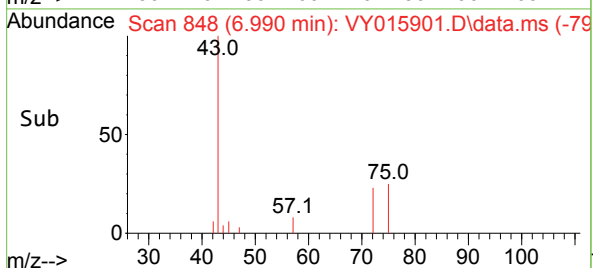
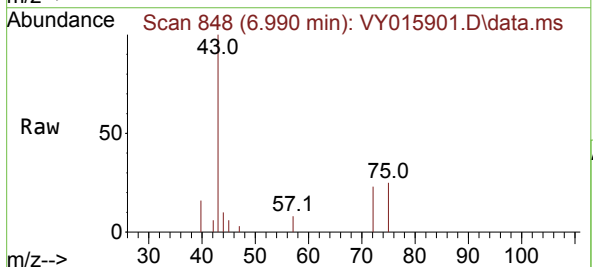


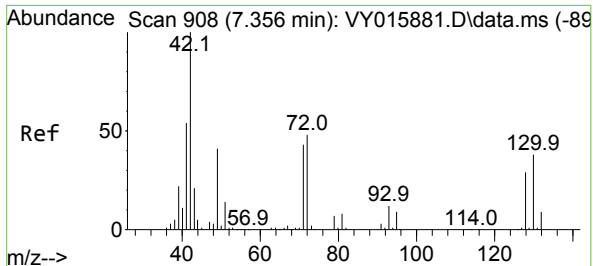
Tgt Ion:	84	Resp:	29249
Ion	Ratio	Lower	Upper
84	100		
49	111.0	106.9	160.3
51	35.7	33.2	49.8
86	60.3	51.0	76.6



#25
2-Butanone
Concen: 8.511 ug/l
RT: 6.990 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

Tgt Ion:	43	Resp:	6247
Ion	Ratio	Lower	Upper
43	100		
72	22.6	20.5	30.7





#29

Tetrahydrofuran

Concen: 1.806 ug/l

RT: 7.356 min Scan# 908

Delta R.T. 0.000 min

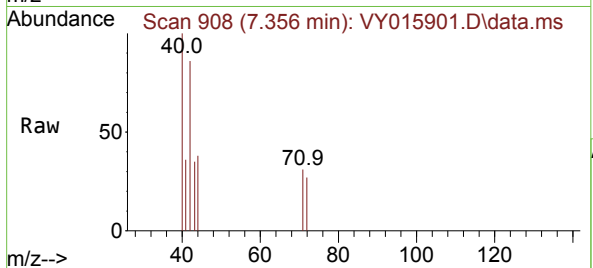
Lab File: VY015901.D

Acq: 10 Oct 2023 16:52

Instrument :

MSVOA_Y

ClientSampleId :



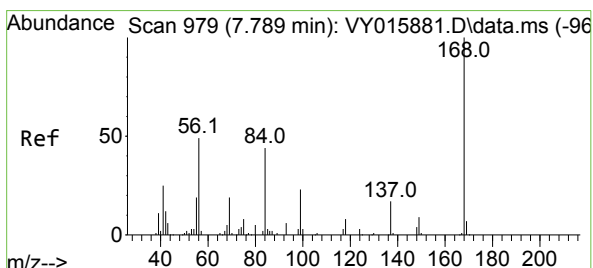
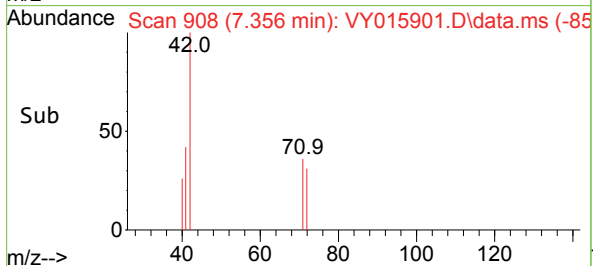
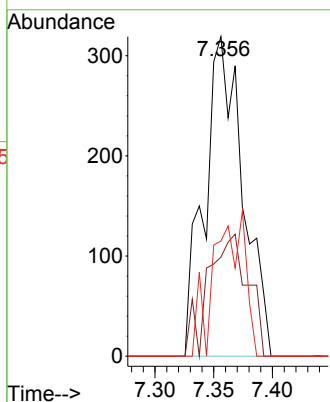
Tgt Ion: 42 Resp: 725

Ion Ratio Lower Upper

42 100

72 39.6 32.8 49.2

71 36.7 31.0 46.4



#31

Cyclohexane

Concen: 2.343 ug/l

RT: 7.789 min Scan# 979

Delta R.T. 0.000 min

Lab File: VY015901.D

Acq: 10 Oct 2023 16:52

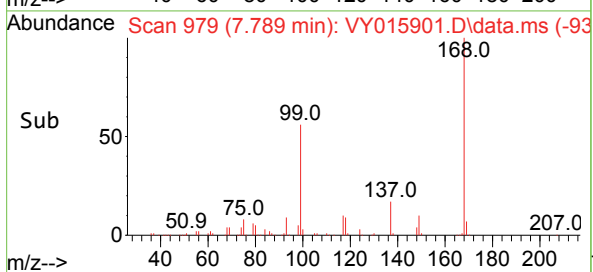
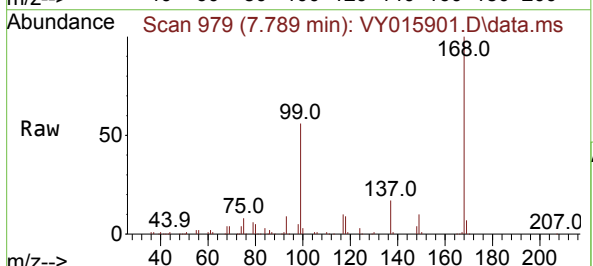
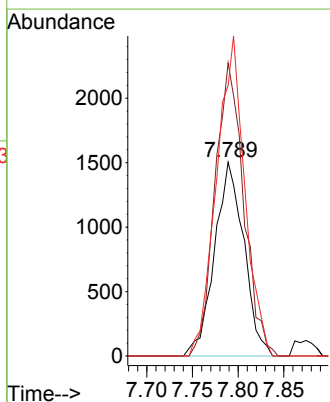
Tgt Ion: 56 Resp: 3357

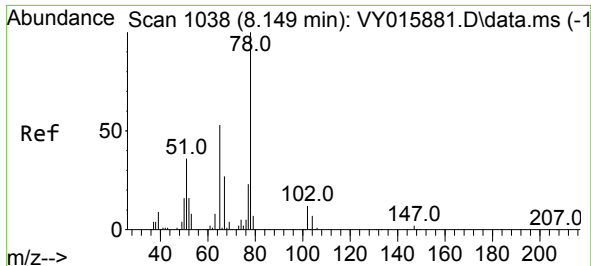
Ion Ratio Lower Upper

56 100

69 151.1 27.8 41.6#

84 139.5 66.4 99.6#

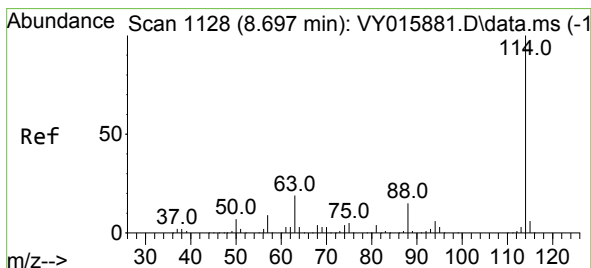
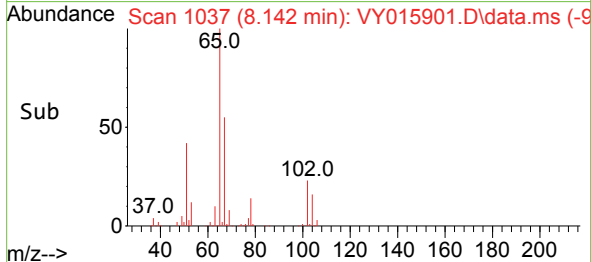
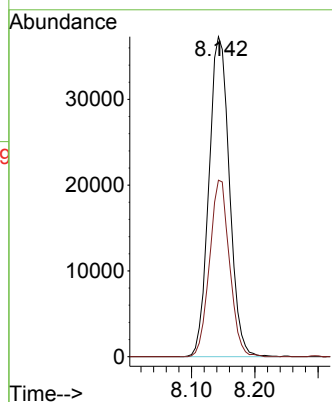
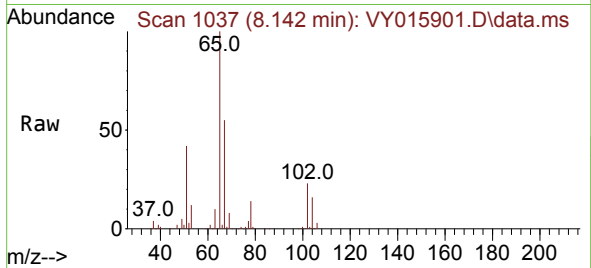




#33
1,2-Dichloroethane-d4
Concen: 62.734 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. -0.006 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

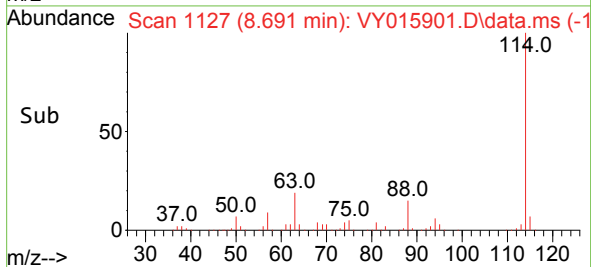
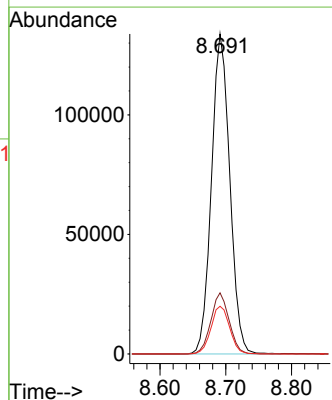
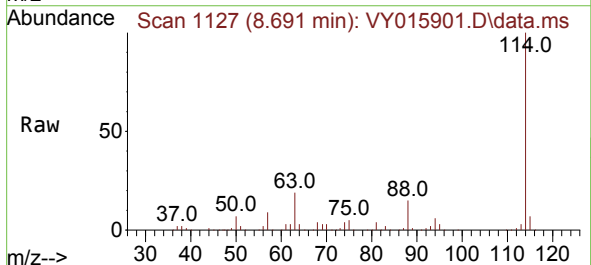
Instrument :
MSVOA_Y
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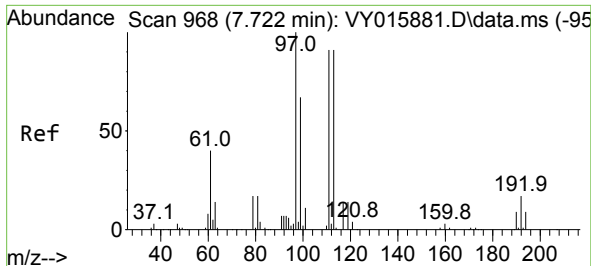
Tgt Ion: 65 Resp: 83938
Ion Ratio Lower Upper
65 100
67 53.6 0.0 101.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

Tgt Ion:114 Resp: 259591
Ion Ratio Lower Upper
114 100
63 19.1 0.0 42.4
88 14.9 0.0 30.6

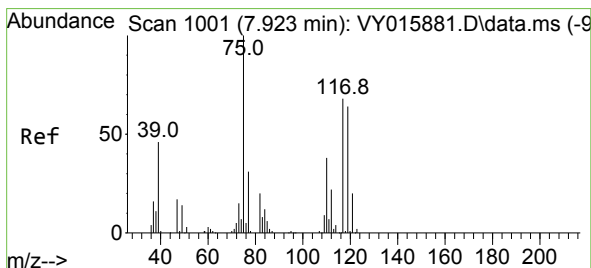
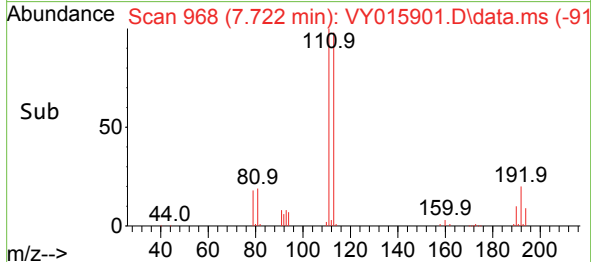
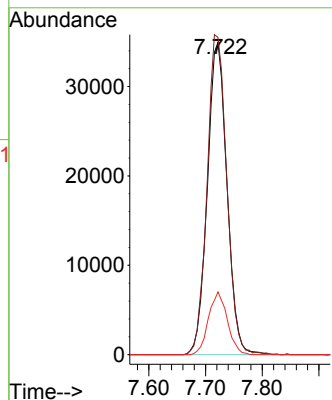
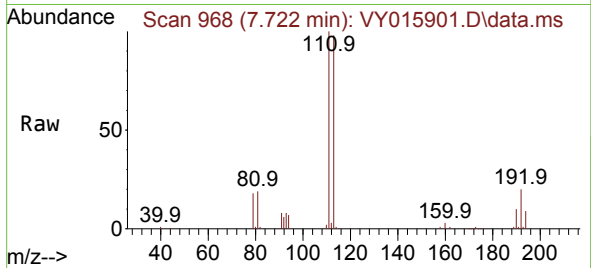




#35
Dibromofluoromethane
Concen: 58.051 ug/l
RT: 7.722 min Scan# 910
Delta R.T. 0.000 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

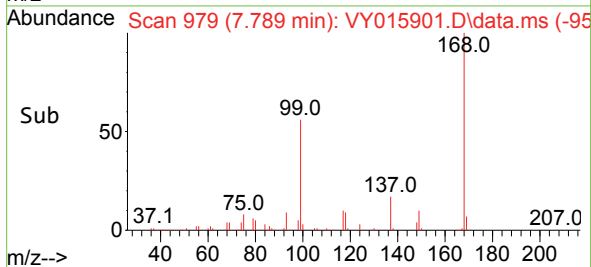
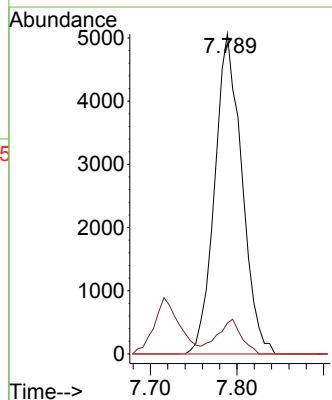
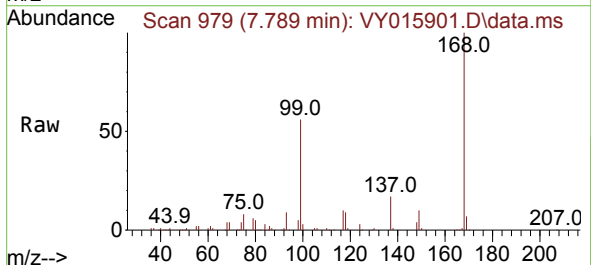
Instrument :
MSVOA_Y
ClientSampleId :

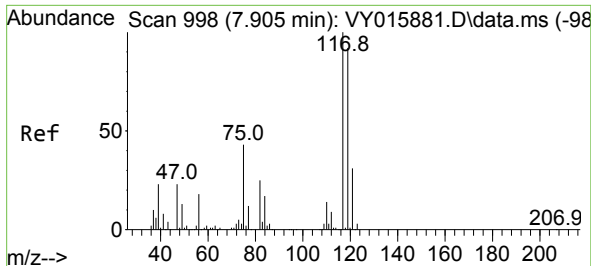
Tgt Ion:113 Resp: 84054
Ion Ratio Lower Upper
113 100
111 103.0 81.3 121.9
192 19.3 16.9 25.3



#36
1,1-Dichloropropene
Concen: 6.864 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.134 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

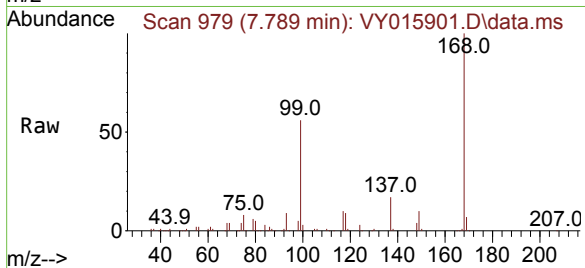
Tgt Ion: 75 Resp: 11008
Ion Ratio Lower Upper
75 100
110 9.6 17.8 53.5#
77 0.0 24.4 36.6#



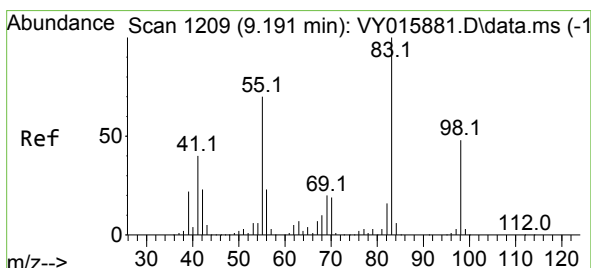
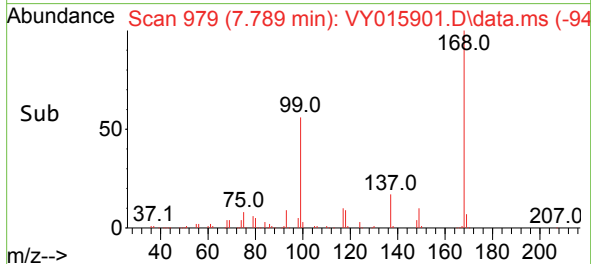
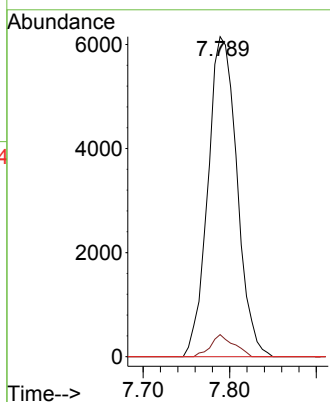


#38
Carbon Tetrachloride
Concen: 7.445 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

Instrument :
MSVOA_Y
ClientSampleId :

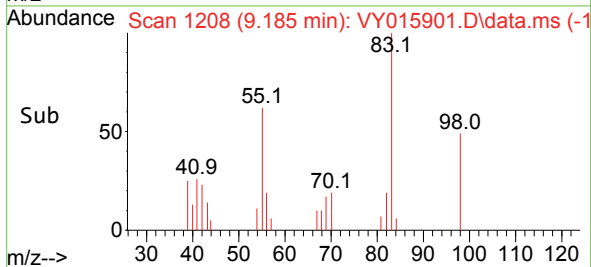
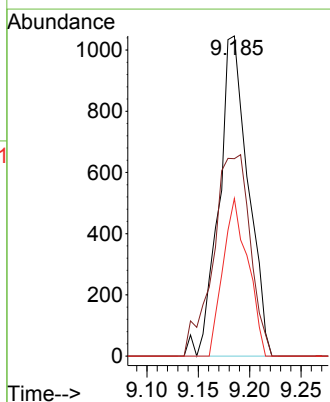
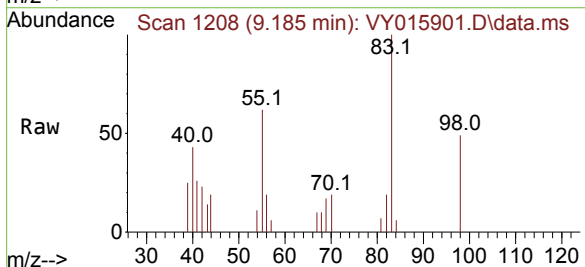


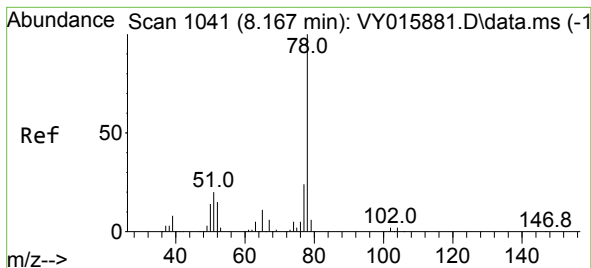
Tgt Ion:117 Resp: 14339
Ion Ratio Lower Upper
117 100
119 6.9 76.4 114.6#
121 0.0 25.8 38.6#



#39
Methylcyclohexane
Concen: 1.271 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. -0.006 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

Tgt Ion: 83 Resp: 2070
Ion Ratio Lower Upper
83 100
55 61.7 63.0 94.4#
98 49.2 37.4 56.2





#40

Benzene

Concen: 5.953 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. -0.006 min

Lab File: VY015901.D

Acq: 10 Oct 2023 16:52

Instrument :

MSVOA_Y

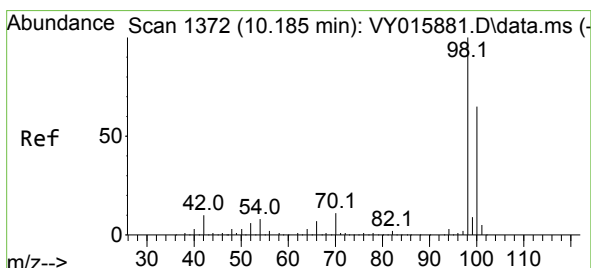
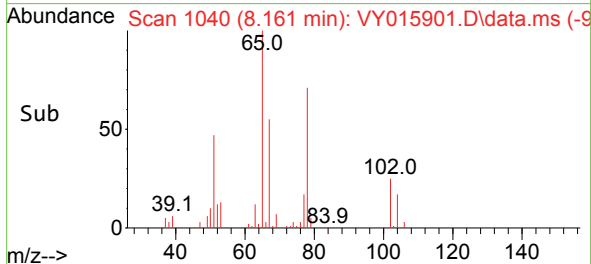
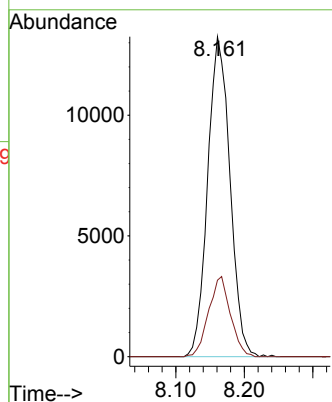
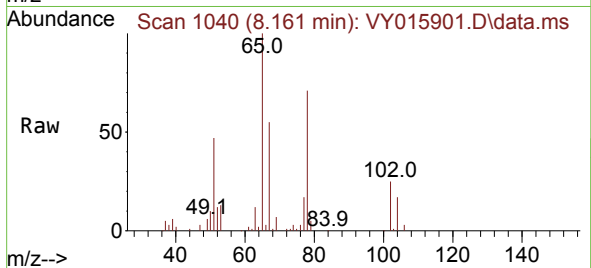
ClientSampleId :

Tgt Ion: 78 Resp: 30002

Ion Ratio Lower Upper

78 100

77 23.9 19.0 28.6



#50

Toluene-d8

Concen: 63.122 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.006 min

Lab File: VY015901.D

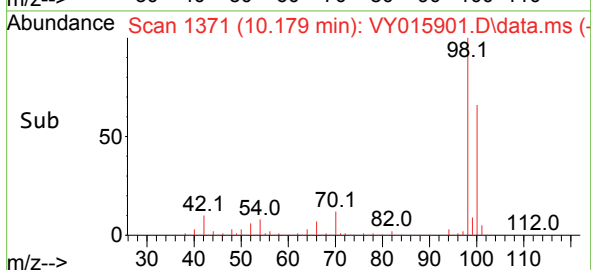
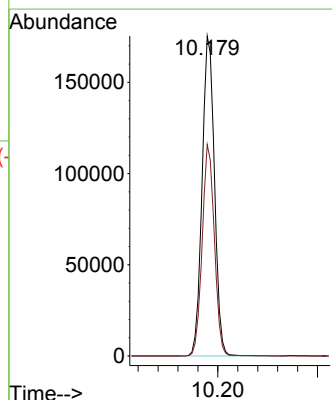
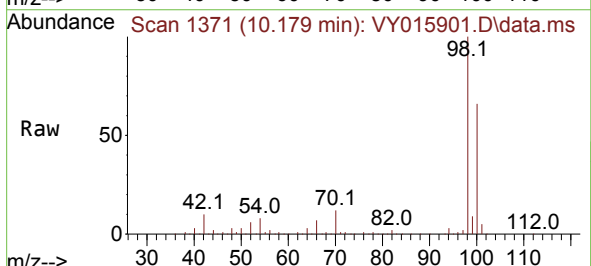
Acq: 10 Oct 2023 16:52

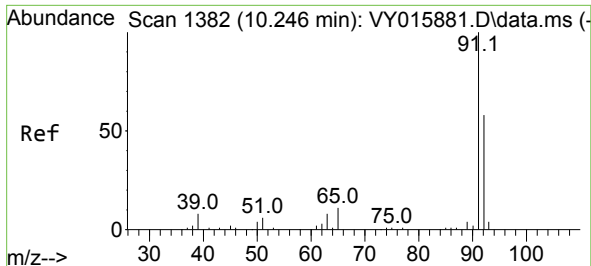
Tgt Ion: 98 Resp: 301216

Ion Ratio Lower Upper

98 100

100 65.2 50.1 75.1

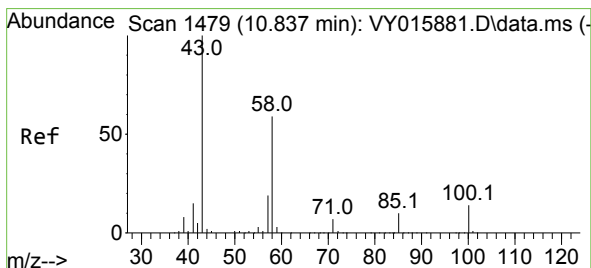
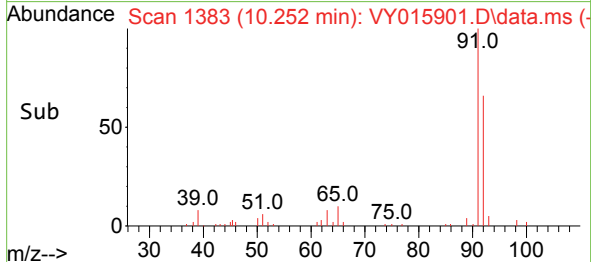
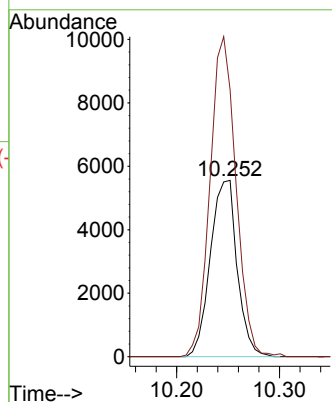
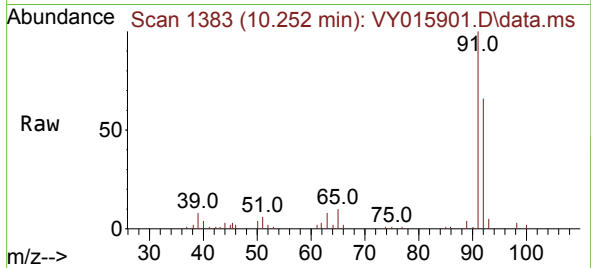




#52
Toluene
Concen: 3.001 ug/l
RT: 10.252 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

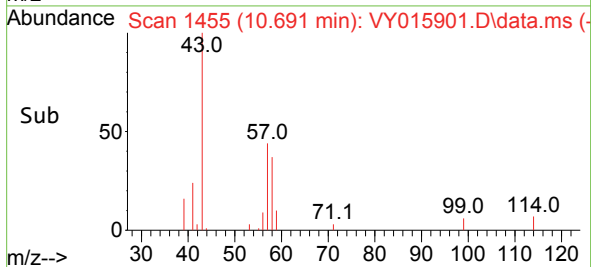
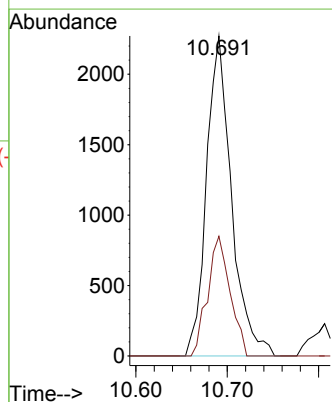
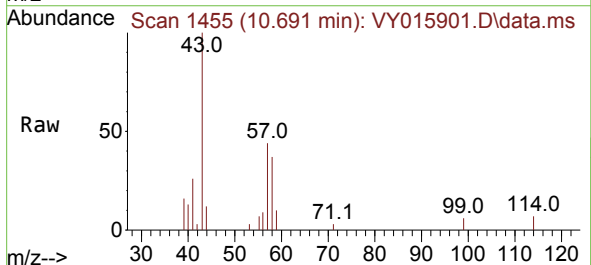
Instrument :
MSVOA_Y
ClientSampleId :

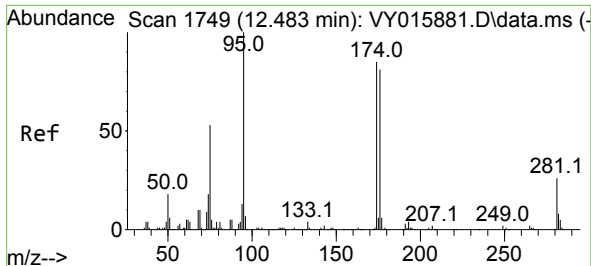
Tgt Ion: 92 Resp: 10040
Ion Ratio Lower Upper
92 100
91 175.8 143.8 215.6



#59
2-Hexanone
Concen: 3.730 ug/l
RT: 10.691 min Scan# 1455
Delta R.T. -0.146 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

Tgt Ion: 43 Resp: 4304
Ion Ratio Lower Upper
43 100
58 33.6 25.1 75.3

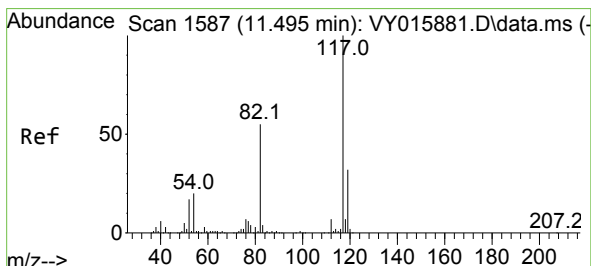
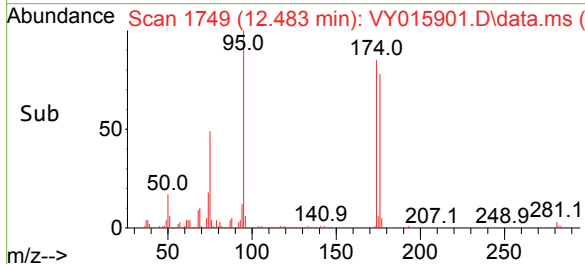
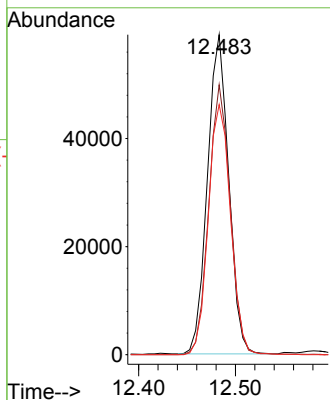
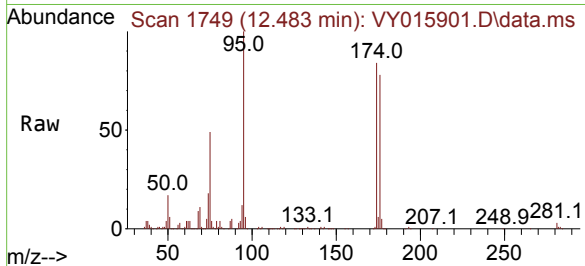




#62
4-Bromofluorobenzene
Concen: 46.536 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

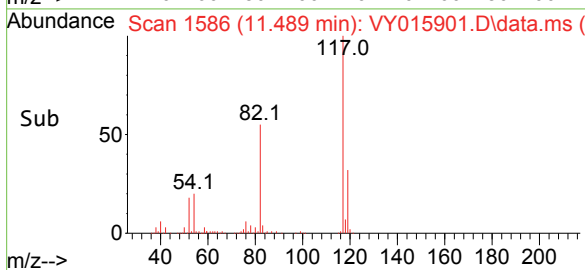
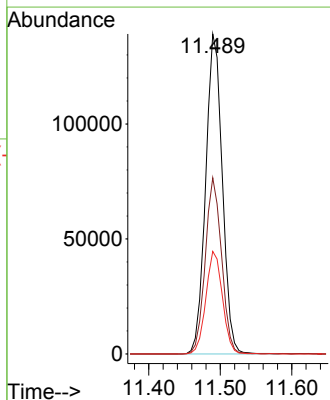
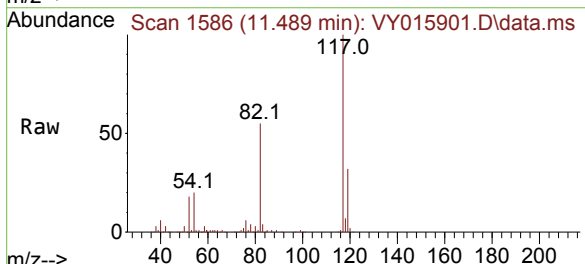
Instrument :
MSVOA_Y
ClientSampleId :

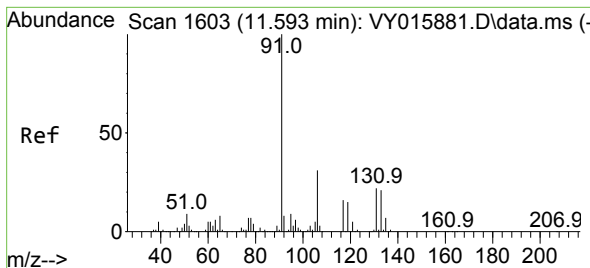
Tgt Ion: 95 Resp: 90198
Ion Ratio Lower Upper
95 100
174 85.8 0.0 178.2
176 82.1 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.006 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

Tgt Ion: 117 Resp: 225018
Ion Ratio Lower Upper
117 100
82 55.1 43.4 65.0
119 32.0 26.3 39.5





#67

Ethyl Benzene

Concen: 4.853 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.000 min

Lab File: VY015901.D

Acq: 10 Oct 2023 16:52

Instrument :

MSVOA_Y

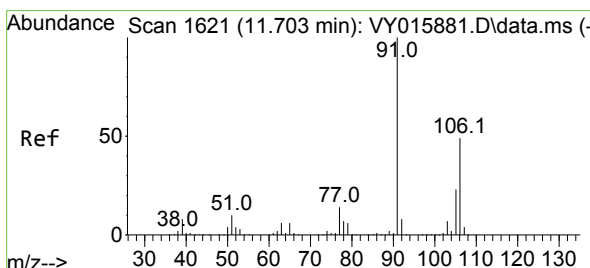
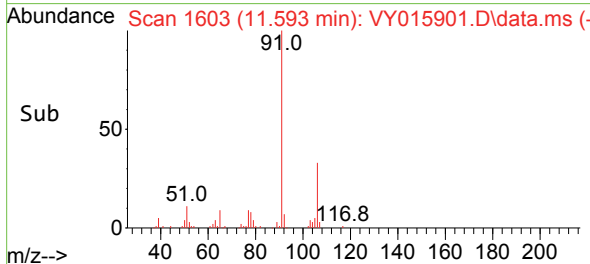
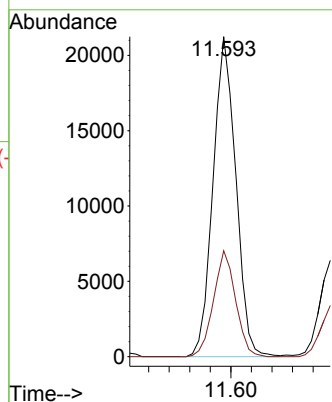
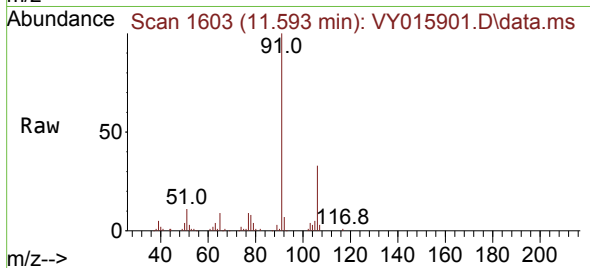
ClientSampleId :

Tgt Ion: 91 Resp: 32675

Ion Ratio Lower Upper

91 100

106 33.1 24.6 36.8



#68

m/p-Xylenes

Concen: 2.842 ug/l

RT: 11.703 min Scan# 1621

Delta R.T. 0.000 min

Lab File: VY015901.D

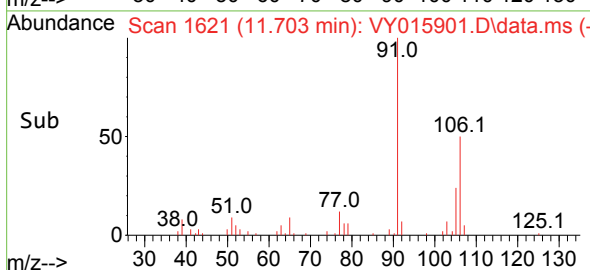
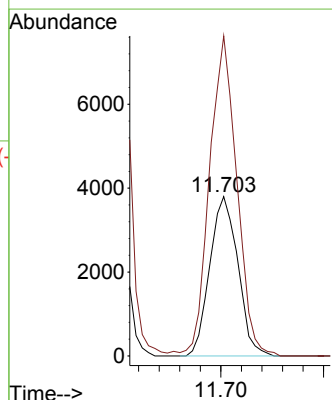
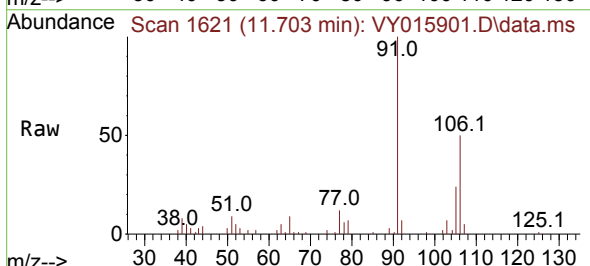
Acq: 10 Oct 2023 16:52

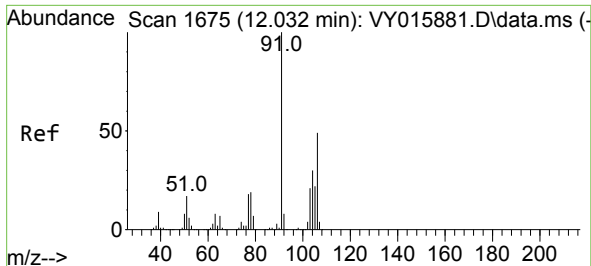
Tgt Ion: 106 Resp: 7212

Ion Ratio Lower Upper

106 100

91 195.6 166.1 249.1

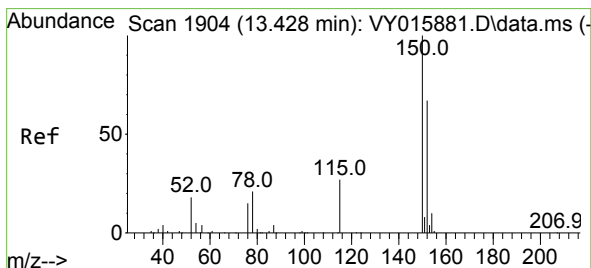
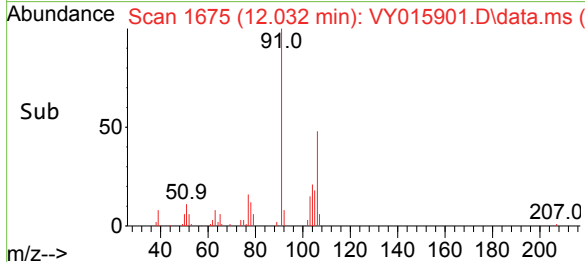
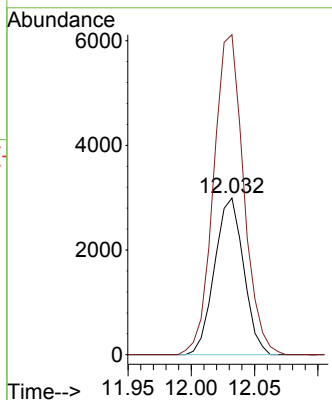
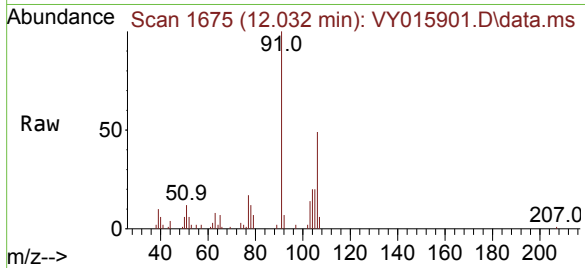




#69
o-Xylene
Concen: 1.882 ug/l
RT: 12.032 min Scan# 110
Delta R.T. 0.000 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

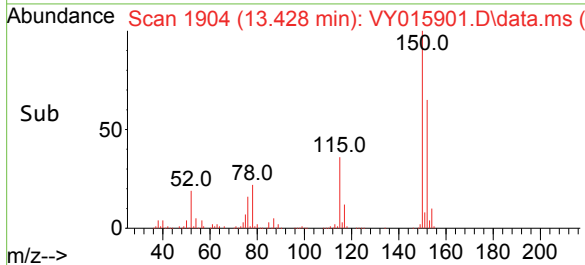
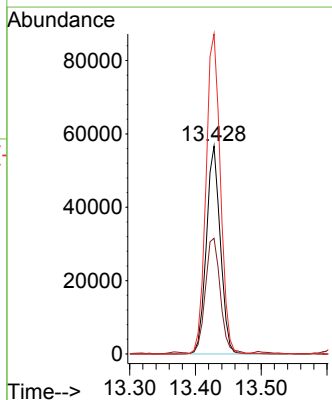
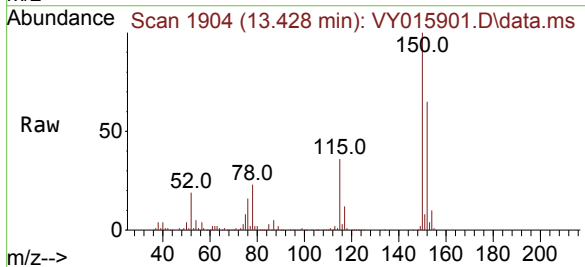
Instrument :
MSVOA_Y
ClientSampleId :

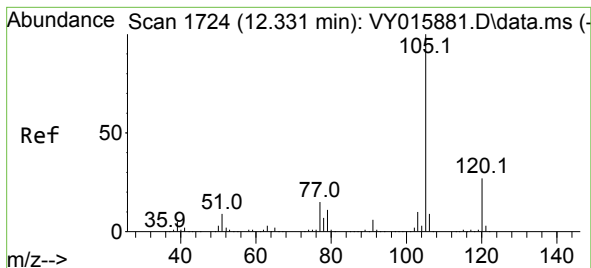
Tgt Ion:106 Resp: 4778
Ion Ratio Lower Upper
106 100
91 211.7 108.1 324.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

Tgt Ion:152 Resp: 83864
Ion Ratio Lower Upper
152 100
115 59.1 28.8 86.5
150 158.9 0.0 348.8





#73

Isopropylbenzene

Concen: 1.104 ug/l

RT: 12.331 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015901.D

Acq: 10 Oct 2023 16:52

Instrument :

MSVOA_Y

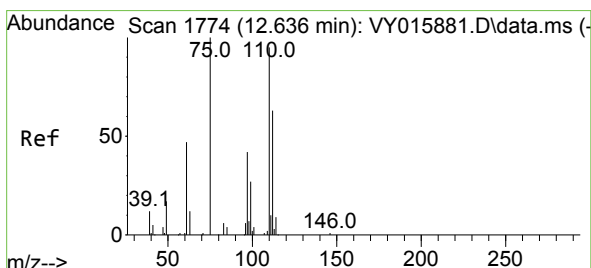
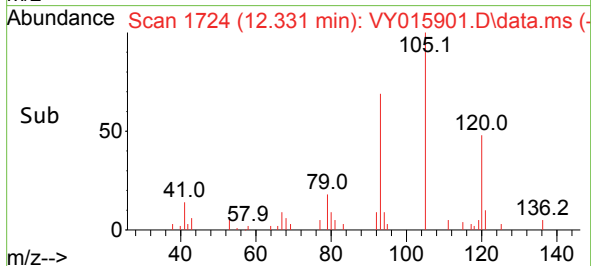
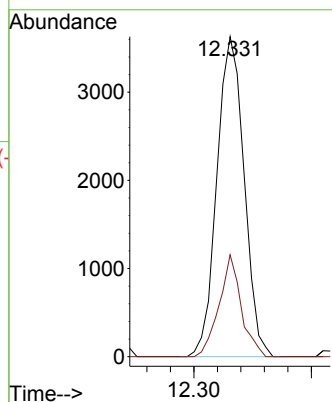
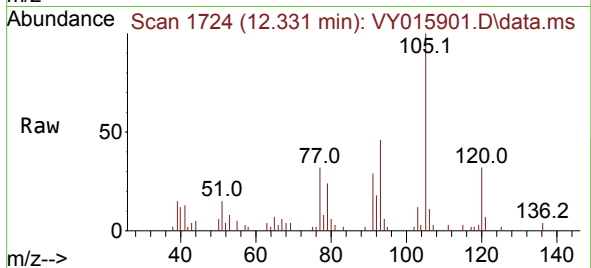
ClientSampleId :

Tgt Ion:105 Resp: 5839

Ion Ratio Lower Upper

105 100

120 25.8 13.3 39.9



#76

1,2,3-Trichloropropane

Concen: 47.937 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY015901.D

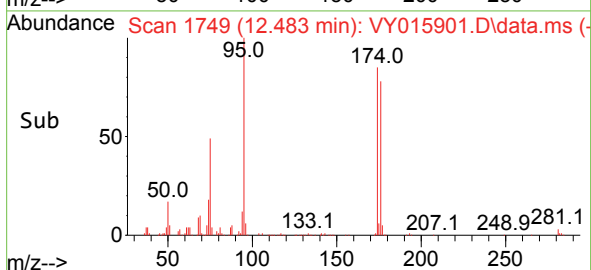
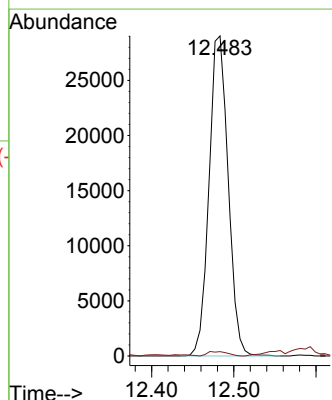
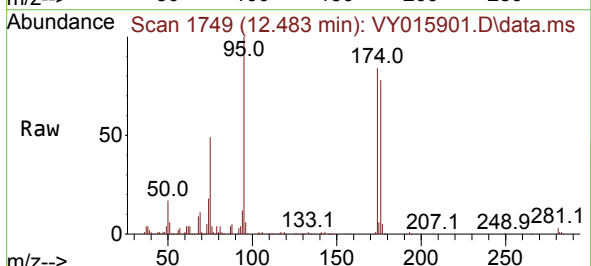
Acq: 10 Oct 2023 16:52

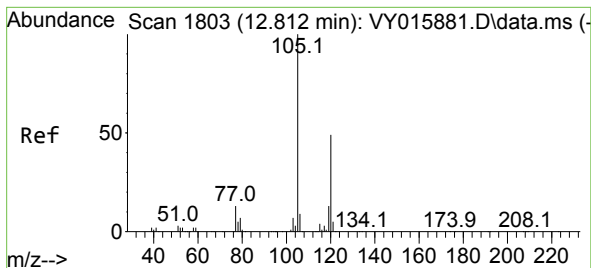
Tgt Ion: 75 Resp: 46931

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 2.519 ug/l

RT: 12.812 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015901.D

Acq: 10 Oct 2023 16:52

Instrument :

MSVOA_Y

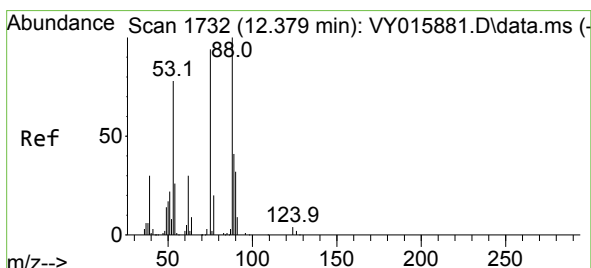
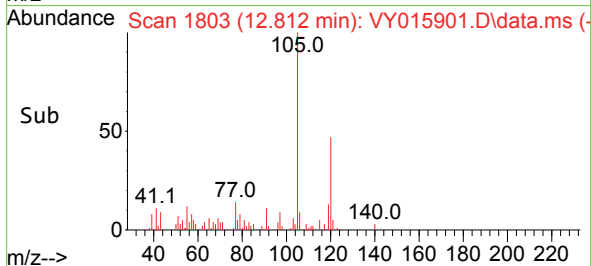
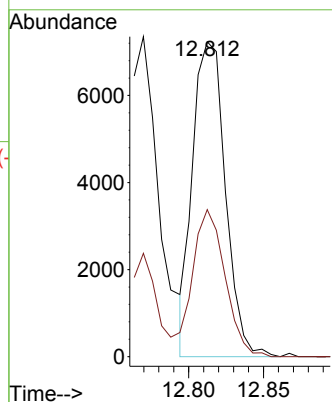
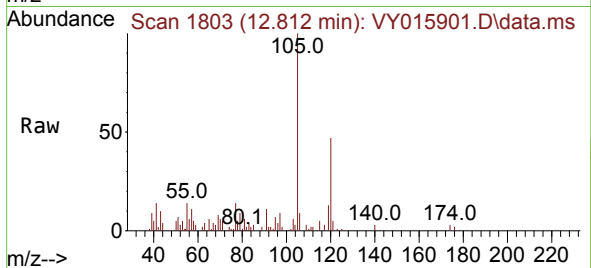
ClientSampleId :

Tgt Ion:105 Resp: 10983

Ion Ratio Lower Upper

105 100

120 47.0 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 106.301 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.104 min

Lab File: VY015901.D

Acq: 10 Oct 2023 16:52

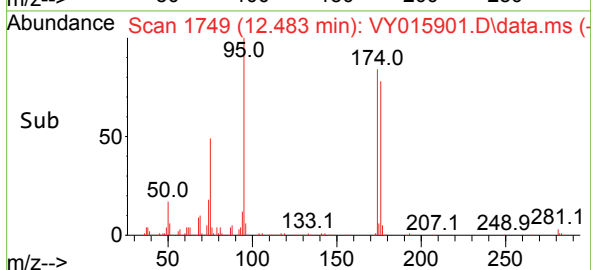
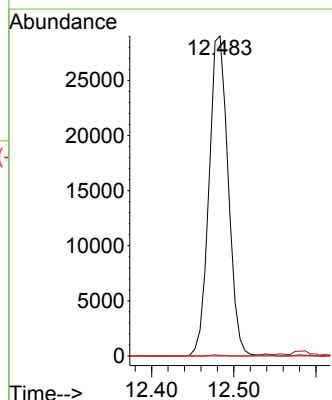
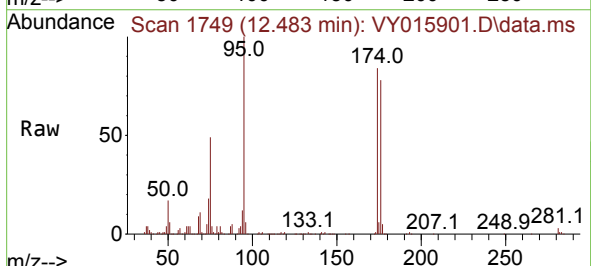
Tgt Ion: 75 Resp: 46931

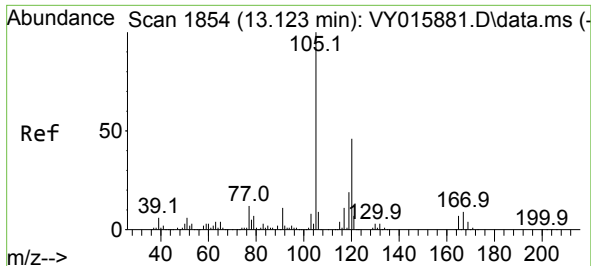
Ion Ratio Lower Upper

75 100

53 0.2 77.8 116.8#

89 0.0 37.4 56.0#

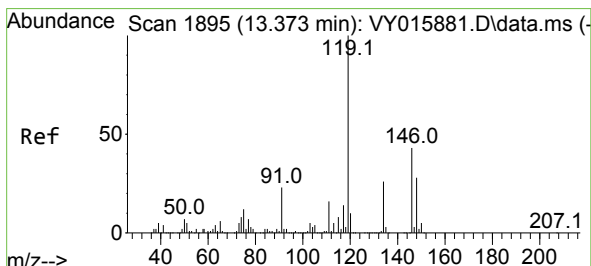
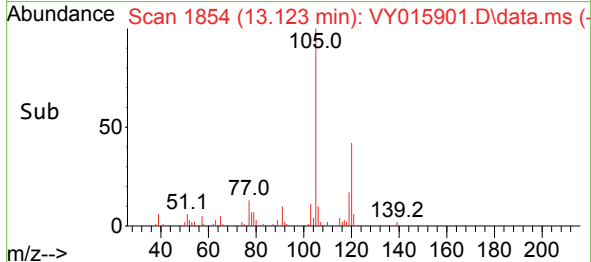
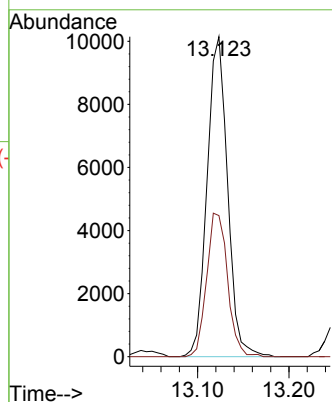
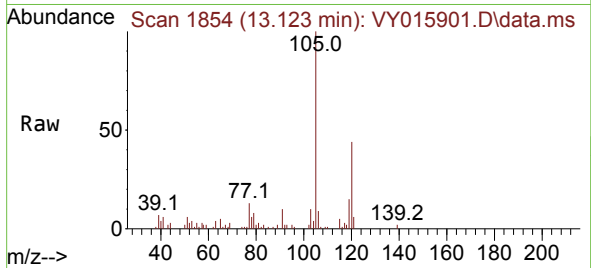




#84
1,2,4-Trimethylbenzene
Concen: 3.591 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.000 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

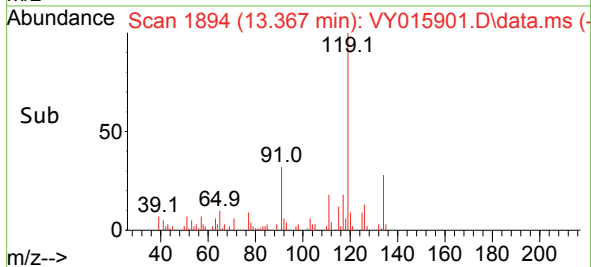
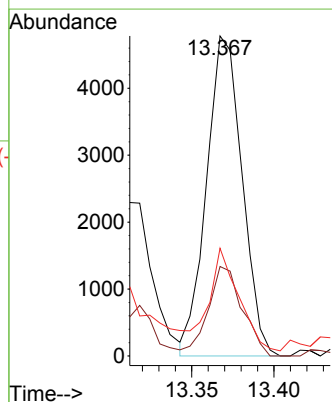
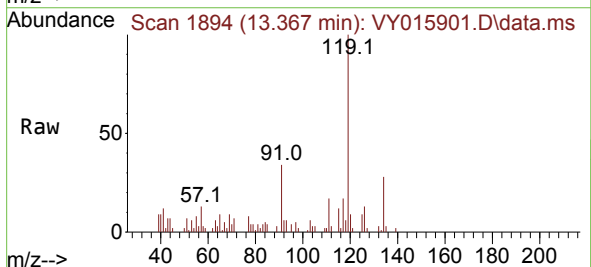
Instrument :
MSVOA_Y
ClientSampleId :

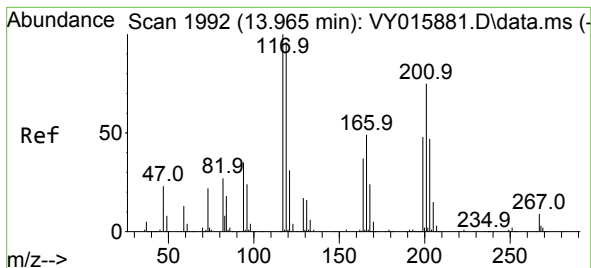
Tgt Ion:105 Resp: 15769
Ion Ratio Lower Upper
105 100
120 45.8 22.2 66.6



#86
p-Isopropyltoluene
Concen: 1.455 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. -0.006 min
Lab File: VY015901.D
Acq: 10 Oct 2023 16:52

Tgt Ion:119 Resp: 7183
Ion Ratio Lower Upper
119 100
134 27.0 13.3 39.8
91 26.3 12.4 37.4





#90

Hexachloroethane

Concen: 3.902 ug/l

RT: 13.971 min Scan# 1992

Delta R.T. 0.006 min

Lab File: VY015901.D

Acq: 10 Oct 2023 16:52

Instrument :

MSVOA_Y

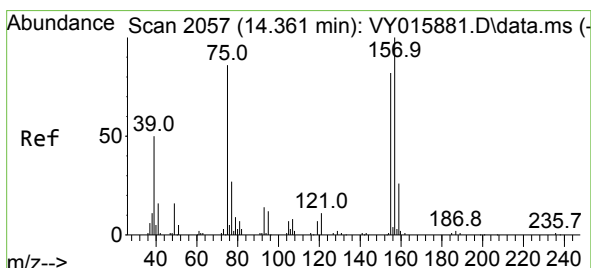
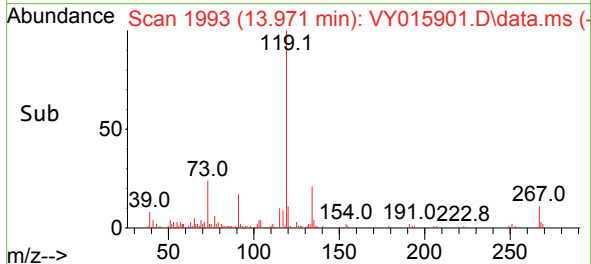
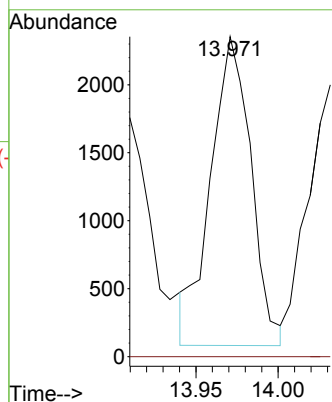
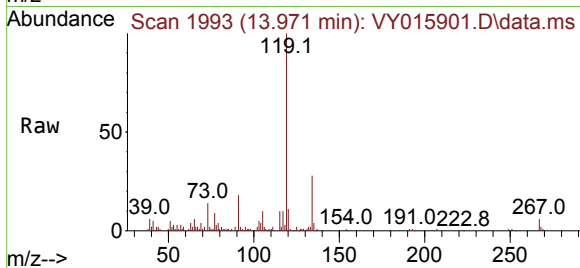
ClientSampleId :

Tgt Ion:117 Resp: 3866

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.490 ug/l

RT: 14.373 min Scan# 2059

Delta R.T. 0.012 min

Lab File: VY015901.D

Acq: 10 Oct 2023 16:52

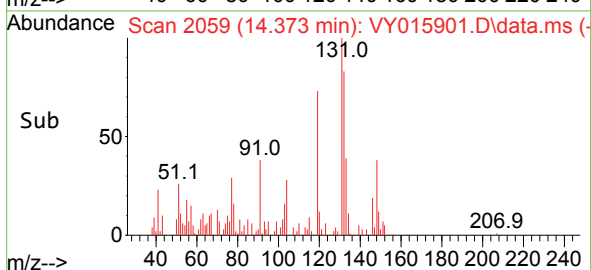
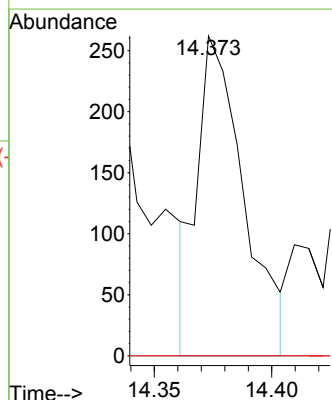
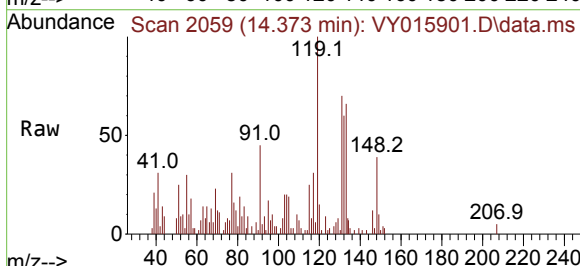
Tgt Ion: 75 Resp: 359

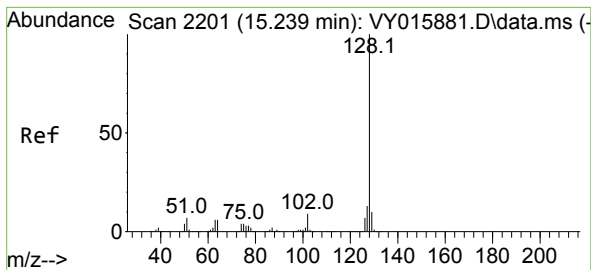
Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.6#

157 0.0 51.8 155.5#





#95

Naphthalene

Concen: 28.714 ug/l

RT: 15.239 min Scan# 21

Delta R.T. 0.000 min

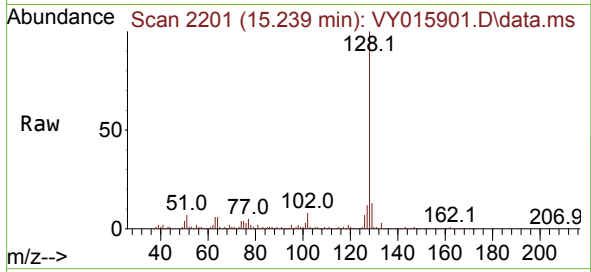
Lab File: VY015901.D

Acq: 10 Oct 2023 16:52

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 103347

Ion Ratio Lower Upper

128 100

127 12.6 10.8 16.2

129 13.4 8.6 13.0#

