

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100423\
 Data File : VY015833.D
 Acq On : 04 Oct 2023 17:24
 Operator : SY/MD
 Sample : 04693-02
 Misc : 4.13g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 05 06:56:52 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)

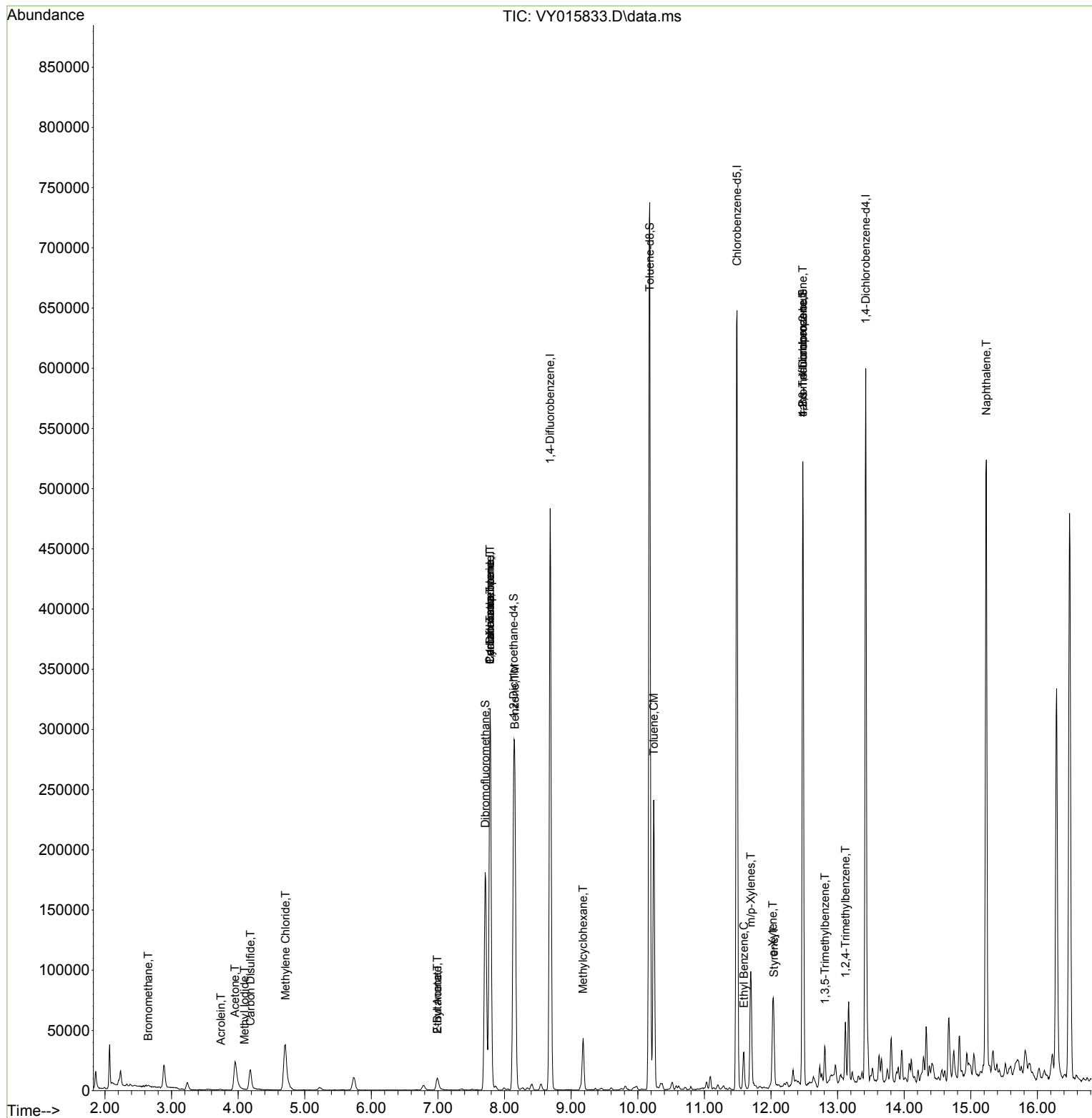
Internal Standards						
1) Pentafluorobenzene	7.783	168	235779	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	410528	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	359093	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	148237	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	148532	57.255	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	114.500%
35) Dibromofluoromethane	7.710	113	128863	52.444	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	104.880%
50) Toluene-d8	10.179	98	481679	57.816	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	115.640%
62) 4-Bromofluorobenzene	12.477	95	152814	46.739	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	93.480%
Target Compounds						
						Qvalue
5) Bromomethane	2.650	94	175	2.631	ug/l	84
10) Methyl Iodide	4.095	142	73	2.754	ug/l #	38
11) Tert butyl alcohol	4.960	59	51	Below Cal	#	89
13) Acrolein	3.741	56	807	2.031	ug/l #	64
16) Acetone	3.954	43	52688	37.951	ug/l	94
17) Carbon Disulfide	4.186	76	34396	8.536	ug/l	97
20) Methylene Chloride	4.710	84	28558	5.041	ug/l	89
25) 2-Butanone	6.990	43	19444	9.909	ug/l	96
31) Cyclohexane	7.783	56	10722	2.983	ug/l #	27
36) 1,1-Dichloropropene	7.783	75	18212	5.013	ug/l #	50
37) Ethyl Acetate	6.990	43	19444	5.366	ug/l #	71
38) Carbon Tetrachloride	7.783	117	23583	5.980	ug/l #	16
39) Methylcyclohexane	9.179	83	17627	4.387	ug/l	93
40) Benzene	8.155	78	178181	16.082	ug/l	99
52) Toluene	10.240	92	99068	13.870	ug/l	95
67) Ethyl Benzene	11.593	91	21688	1.583	ug/l	93
68) m/p-Xylenes	11.697	106	30922	5.938	ug/l	93
69) o-Xylene	12.026	106	14679	2.875	ug/l	96
70) Styrene	12.044	104	22750	2.603	ug/l	97
76) 1,2,3-Trichloropropane	12.477	75	80782	34.159	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.813	105	13072	1.404	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	80782	76.923	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	26401	2.834	ug/l	99
95) Naphthalene	15.233	128	419766	51.153	ug/l	99

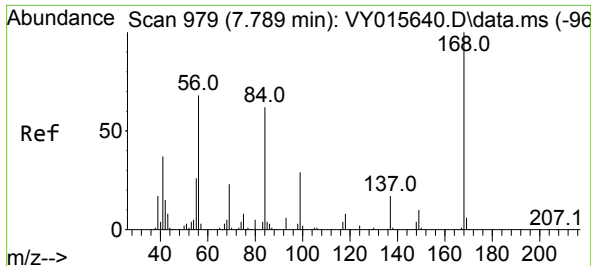
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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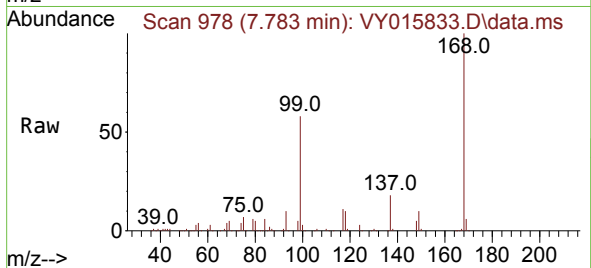
Quant Time: Oct 05 06:56:52 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091923S.M
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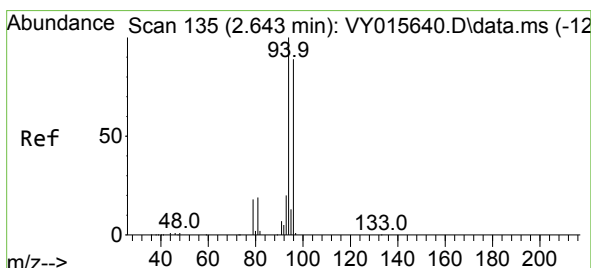
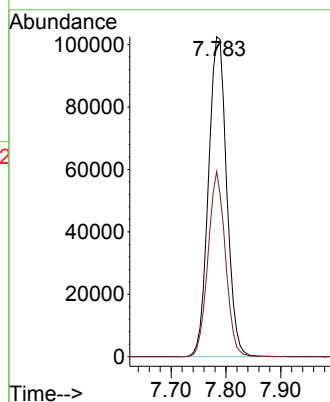
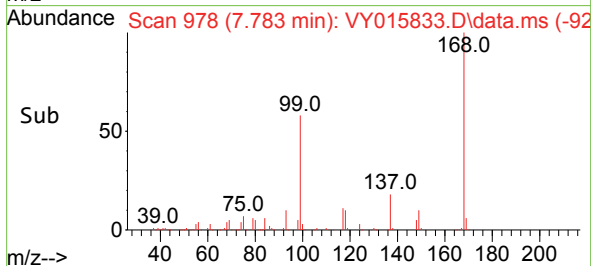


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Instrument :
MSVOA_Y
ClientSampleId :

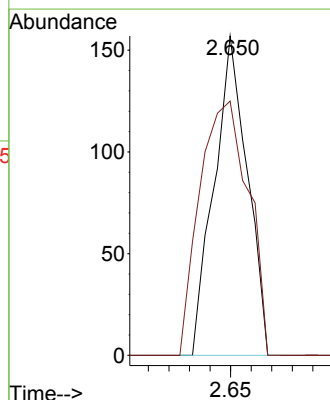
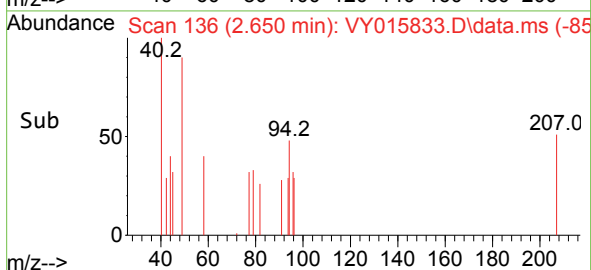
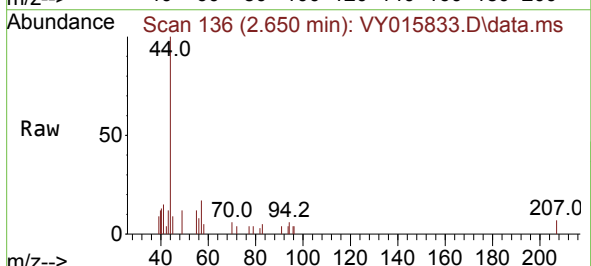


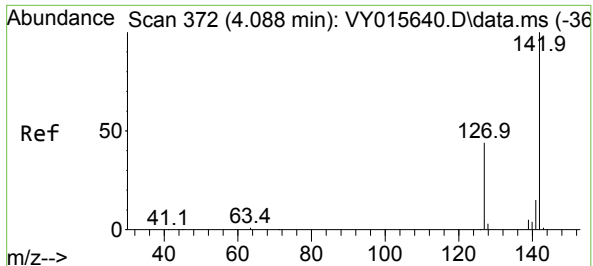
Tgt Ion:168 Resp: 235779
Ion Ratio Lower Upper
168 100
99 57.8 43.4 65.0



#5
Bromomethane
Concen: 2.631 ug/l
RT: 2.650 min Scan# 136
Delta R.T. 0.013 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

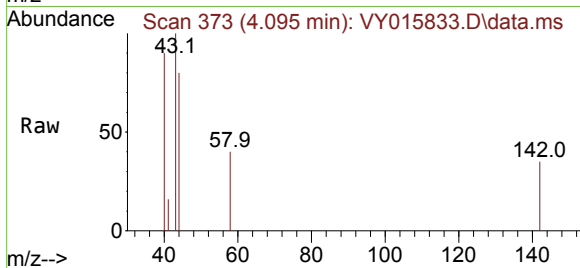
Tgt Ion: 94 Resp: 175
Ion Ratio Lower Upper
94 100
96 79.6 75.8 113.6



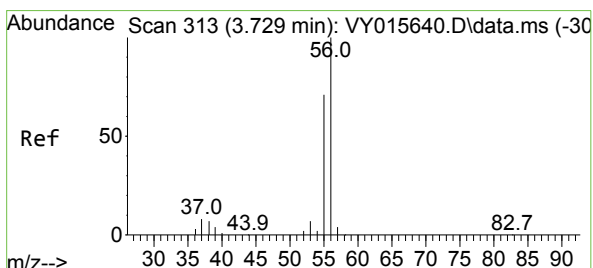
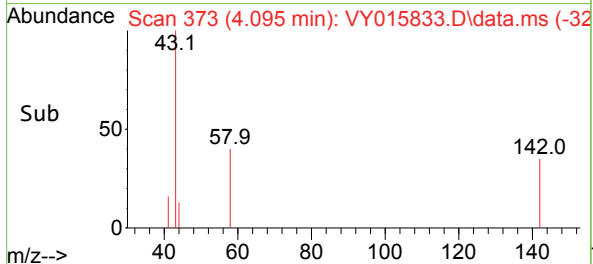
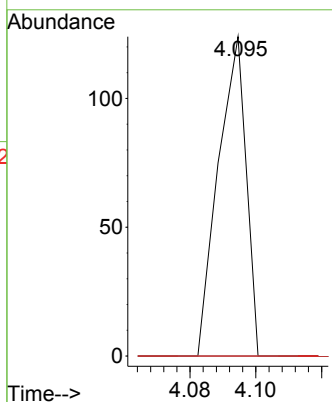


#10
Methyl Iodide
Concen: 2.754 ug/l
RT: 4.095 min Scan# 315
Delta R.T. 0.013 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Instrument :
MSVOA_Y
ClientSampleId :

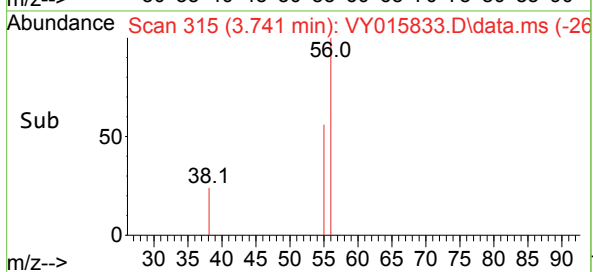
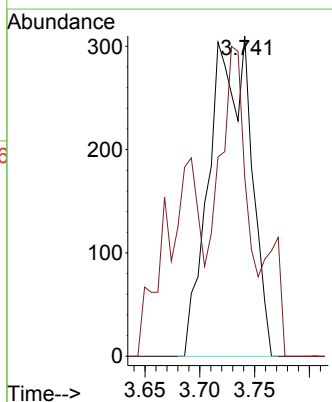
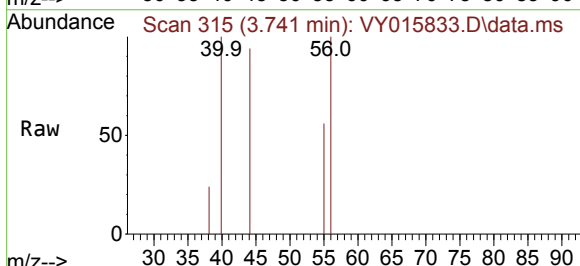


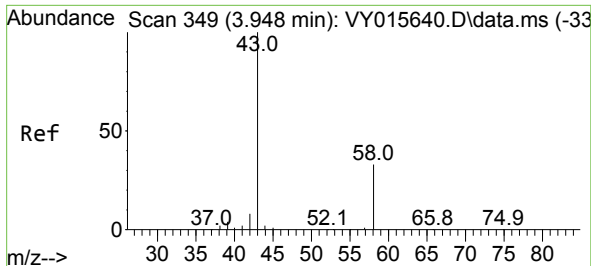
Tgt Ion:142 Resp: 73
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#



#13
Acrolein
Concen: 2.031 ug/l
RT: 3.741 min Scan# 315
Delta R.T. 0.018 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Tgt Ion: 56 Resp: 807
Ion Ratio Lower Upper
56 100
55 41.4 57.0 85.4#





#16

Acetone

Concen: 37.951 ug/l

RT: 3.954 min Scan# 3

Delta R.T. 0.012 min

Lab File: VY015833.D

Acq: 04 Oct 2023 17:24

Instrument :

MSVOA_Y

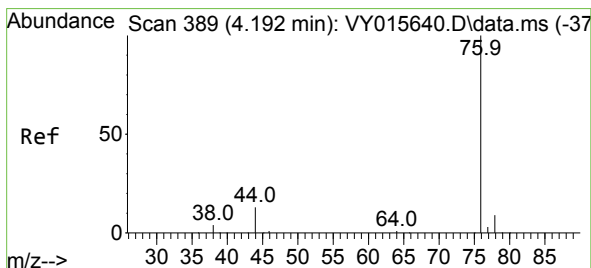
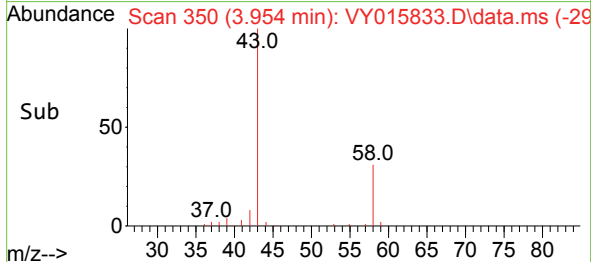
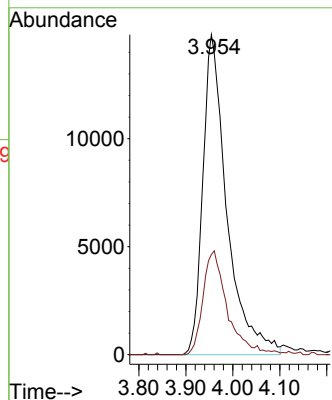
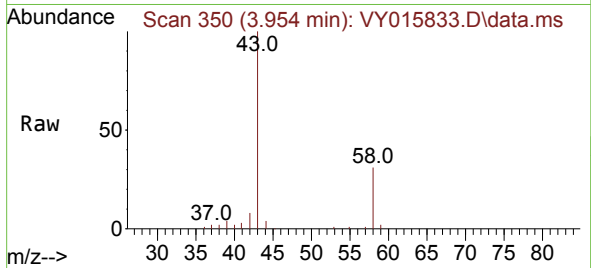
ClientSampleId :

Tgt Ion: 43 Resp: 52688

Ion Ratio Lower Upper

43 100

58 31.3 22.7 34.1



#17

Carbon Disulfide

Concen: 8.536 ug/l

RT: 4.186 min Scan# 388

Delta R.T. 0.000 min

Lab File: VY015833.D

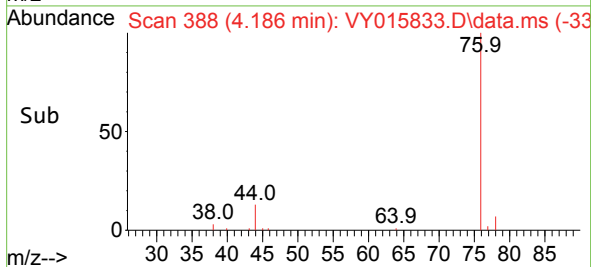
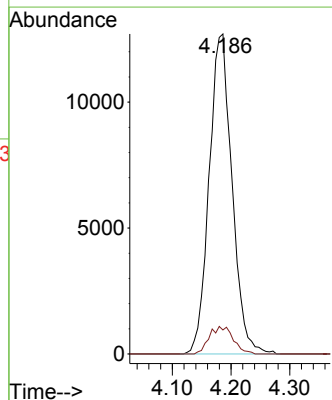
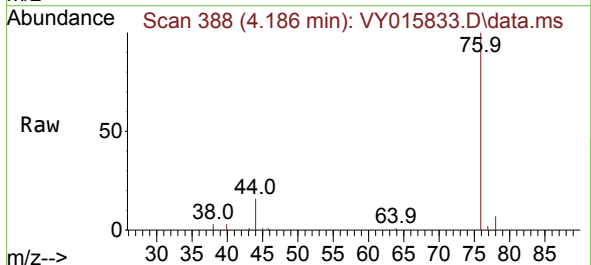
Acq: 04 Oct 2023 17:24

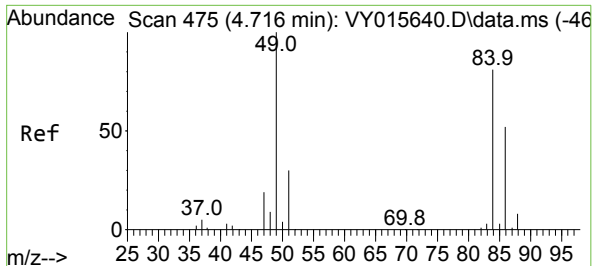
Tgt Ion: 76 Resp: 34396

Ion Ratio Lower Upper

76 100

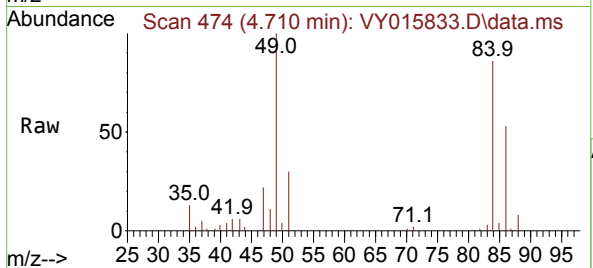
78 7.5 7.0 10.4



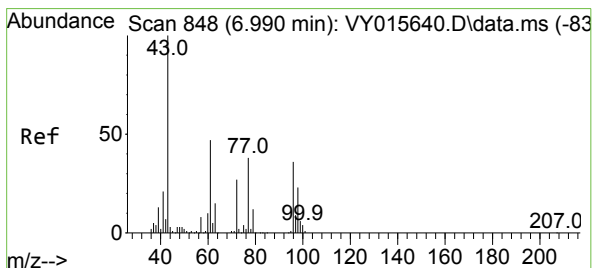
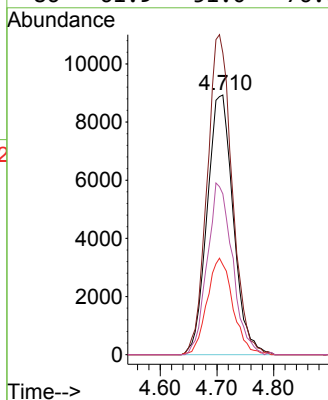
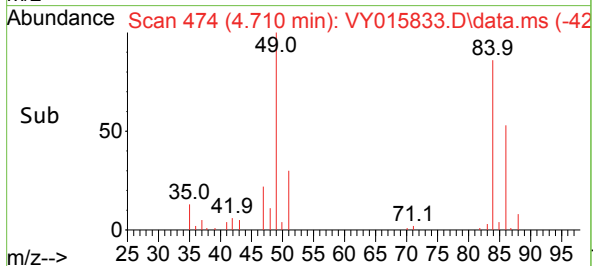


#20
Methylene Chloride
Concen: 5.041 ug/l
RT: 4.710 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Instrument :
MSVOA_Y
ClientSampleId :

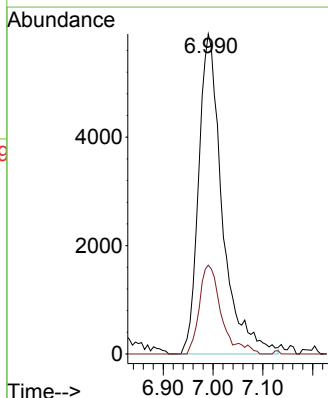
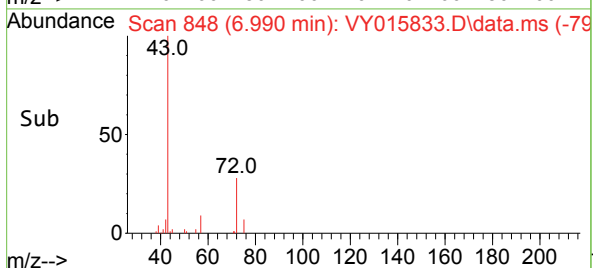
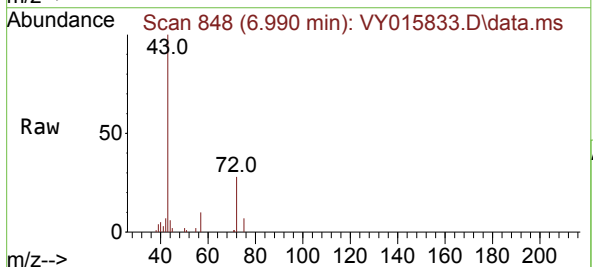


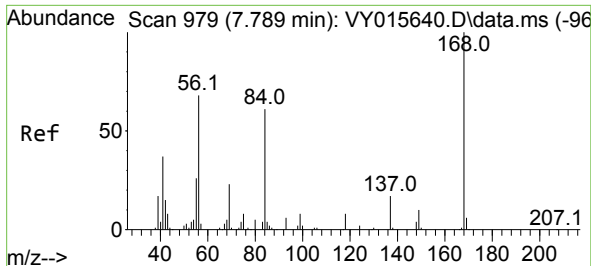
Tgt Ion:	84	Resp:	28558
Ion	Ratio	Lower	Upper
84	100		
49	116.2	106.9	160.3
51	34.6	33.2	49.8
86	61.9	51.0	76.6



#25
2-Butanone
Concen: 9.909 ug/l
RT: 6.990 min Scan# 848
Delta R.T. 0.012 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

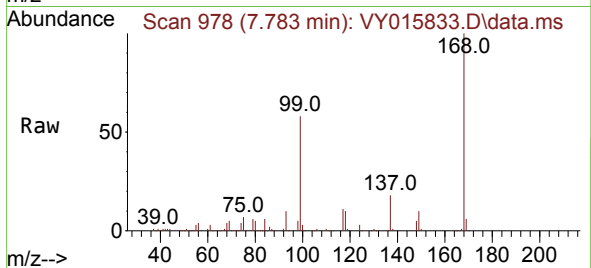
Tgt Ion:	43	Resp:	19444
Ion	Ratio	Lower	Upper
43	100		
72	27.8	20.5	30.7



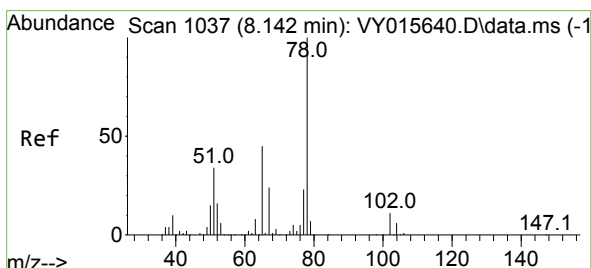
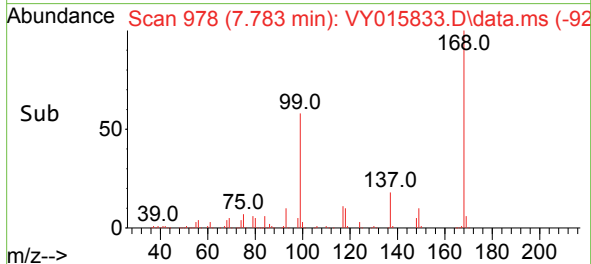
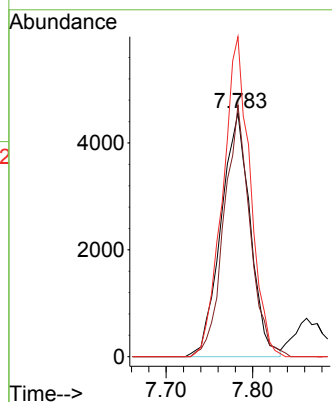


#31
Cyclohexane
Concen: 2.983 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Instrument :
MSVOA_Y
ClientSampleId :

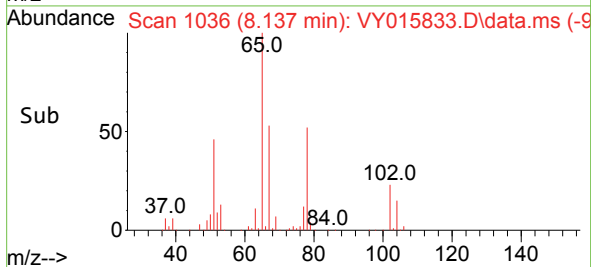
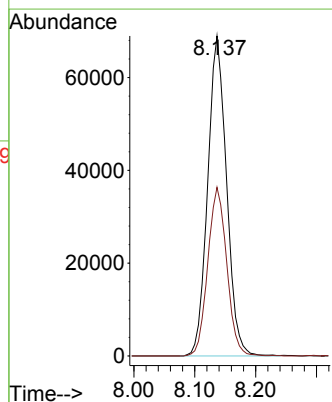
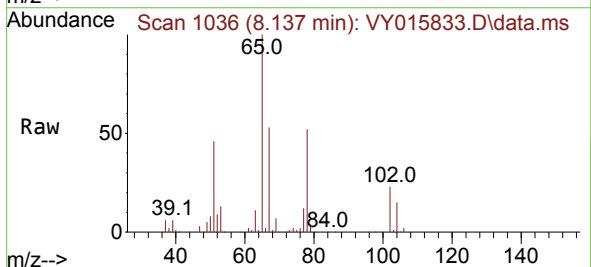


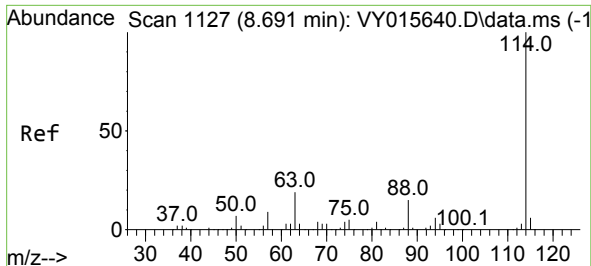
Tgt Ion	Ratio	Lower	Upper
56	100		
69	103.2	27.8	41.6#
84	131.3	66.4	99.6#



#33
1,2-Dichloroethane-d4
Concen: 57.255 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	101.8

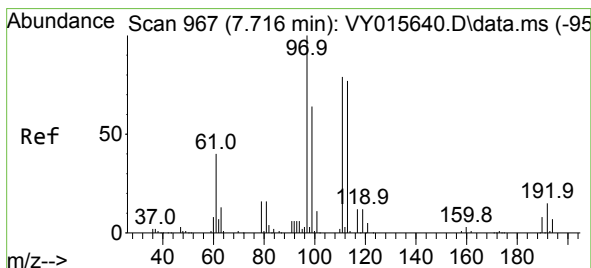
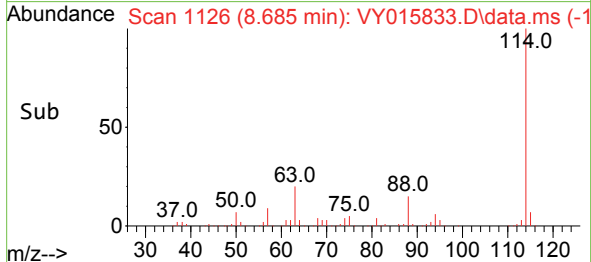
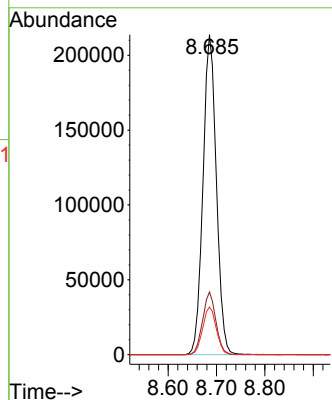
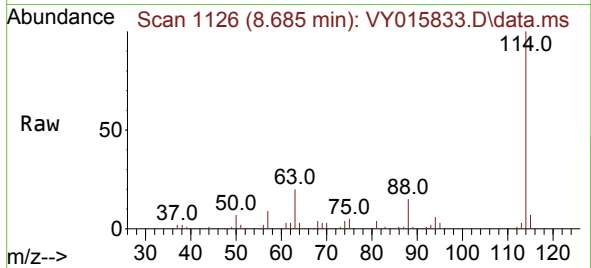




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

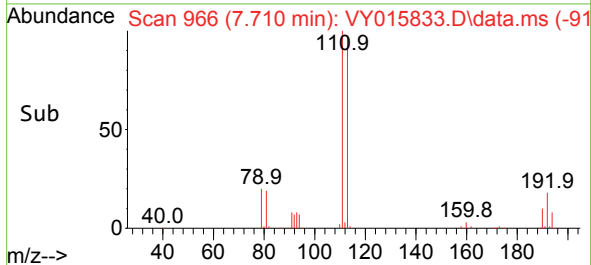
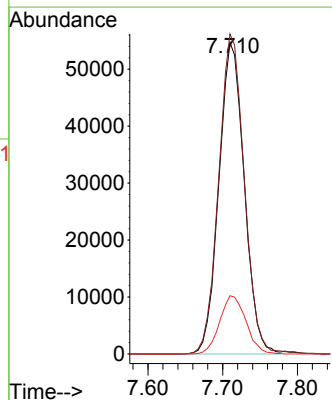
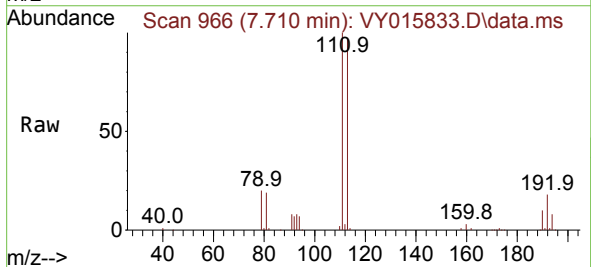
Instrument :
MSVOA_Y
ClientSampleId :

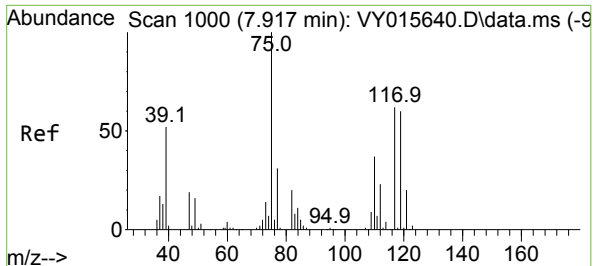
Tgt Ion:114 Resp: 410528
Ion Ratio Lower Upper
114 100
63 19.6 0.0 42.4
88 14.9 0.0 30.6



#35
Dibromofluoromethane
Concen: 52.444 ug/l
RT: 7.710 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Tgt Ion:113 Resp: 128863
Ion Ratio Lower Upper
113 100
111 103.9 81.3 121.9
192 19.4 16.9 25.3





#36

1,1-Dichloropropene

Concen: 5.013 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.128 min

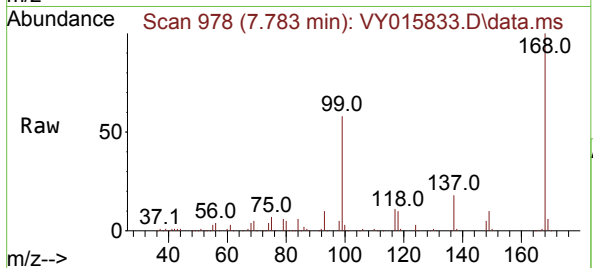
Lab File: VY015833.D

Acq: 04 Oct 2023 17:24

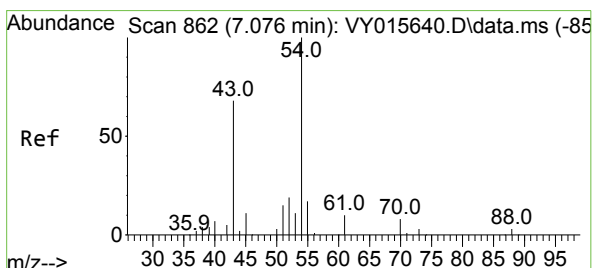
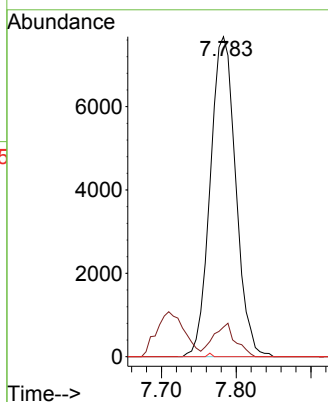
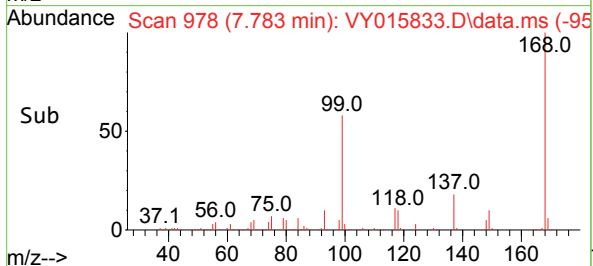
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 75	Resp: 18212
Ion Ratio	Lower Upper
75 100	
110 9.1	17.8 53.5#
77 0.0	24.4 36.6#



#37

Ethyl Acetate

Concen: 5.366 ug/l

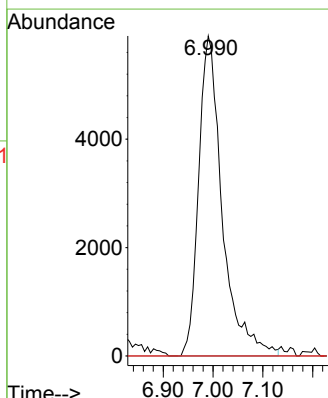
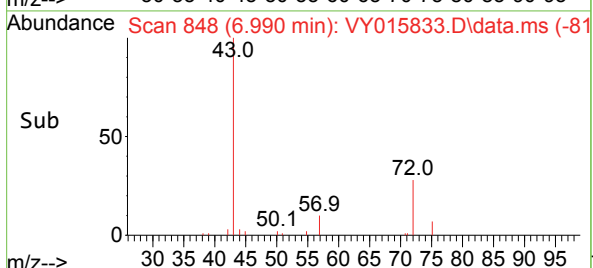
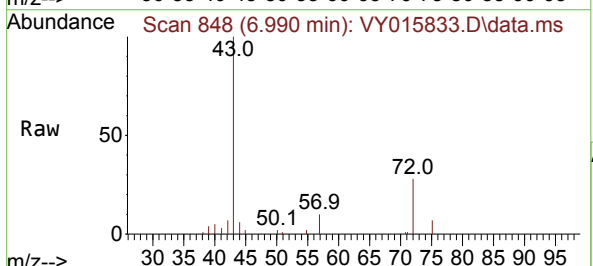
RT: 6.990 min Scan# 848

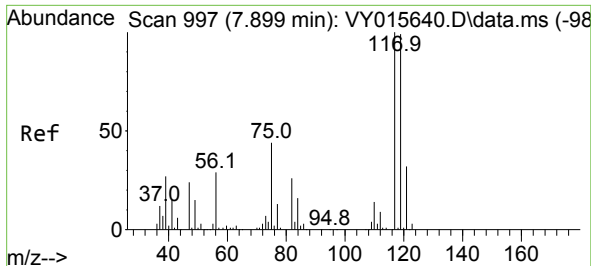
Delta R.T. -0.073 min

Lab File: VY015833.D

Acq: 04 Oct 2023 17:24

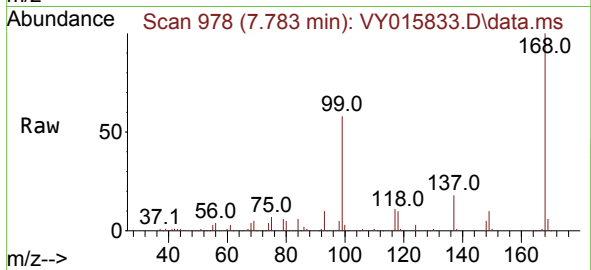
Tgt Ion: 43	Resp: 19444
Ion Ratio	Lower Upper
43 100	
61 0.0	10.1 15.1#
70 0.0	7.1 10.7#



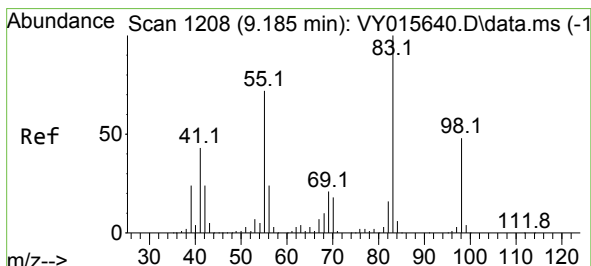
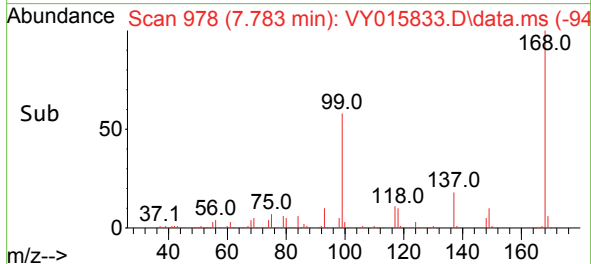
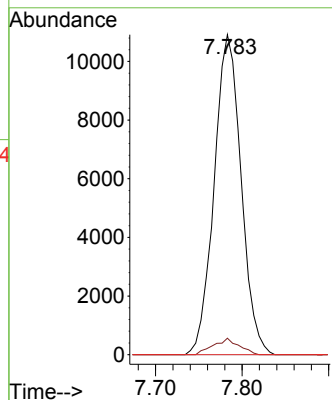


#38
Carbon Tetrachloride
Concen: 5.980 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Instrument :
MSVOA_Y
ClientSampleId :

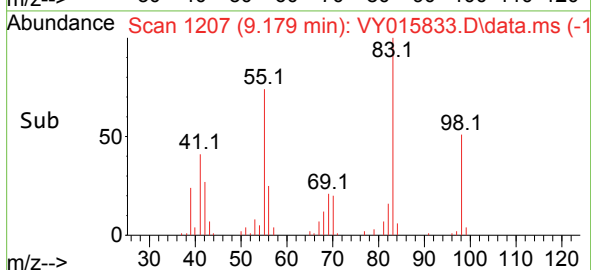
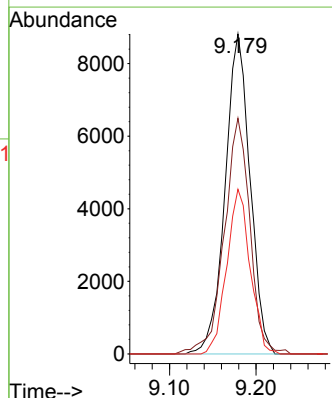
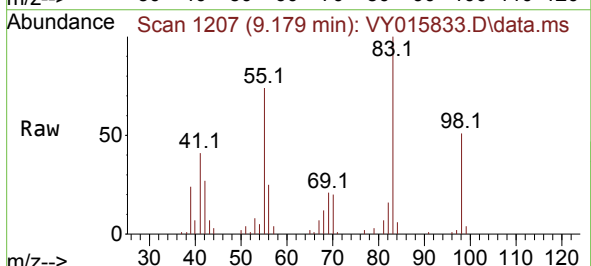


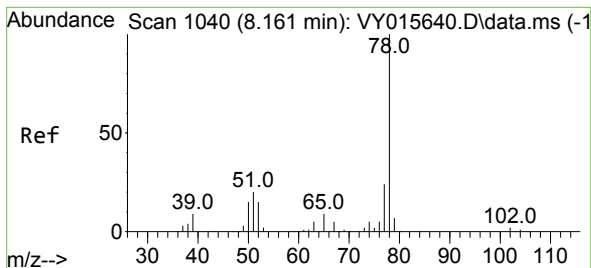
Tgt Ion:117 Resp: 23583
Ion Ratio Lower Upper
117 100
119 5.1 76.4 114.6#
121 0.0 25.8 38.6#



#39
Methylcyclohexane
Concen: 4.387 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. 0.000 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Tgt Ion: 83 Resp: 17627
Ion Ratio Lower Upper
83 100
55 73.0 63.0 94.4
98 51.5 37.4 56.2





#40

Benzene

Concen: 16.082 ug/l

RT: 8.155 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY015833.D

Acq: 04 Oct 2023 17:24

Instrument :

MSVOA_Y

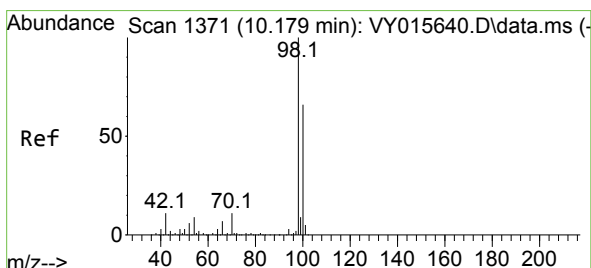
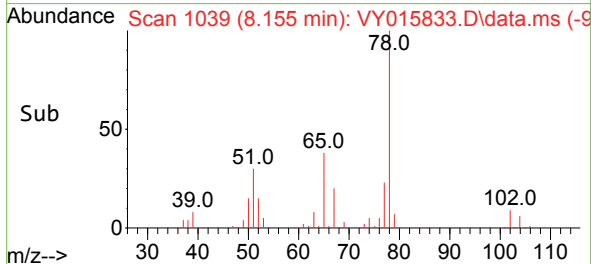
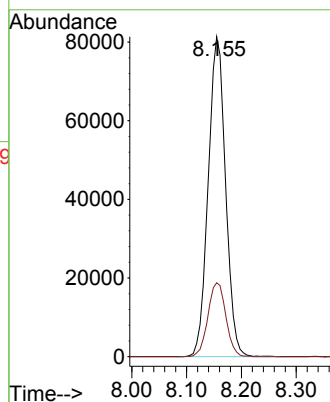
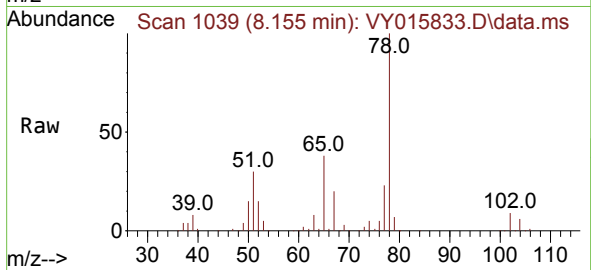
ClientSampleId :

Tgt Ion: 78 Resp: 178181

Ion Ratio Lower Upper

78 100

77 23.1 19.0 28.6



#50

Toluene-d8

Concen: 57.816 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY015833.D

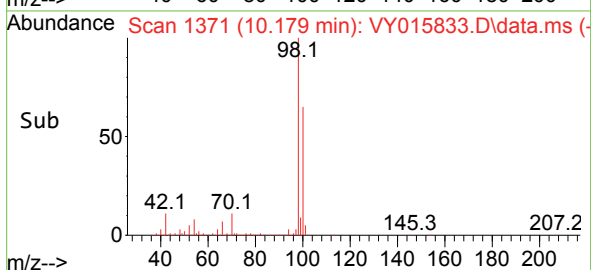
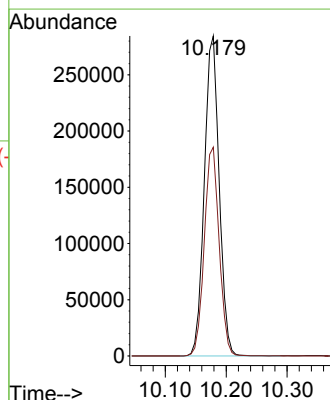
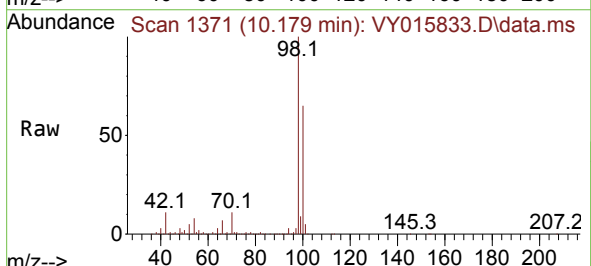
Acq: 04 Oct 2023 17:24

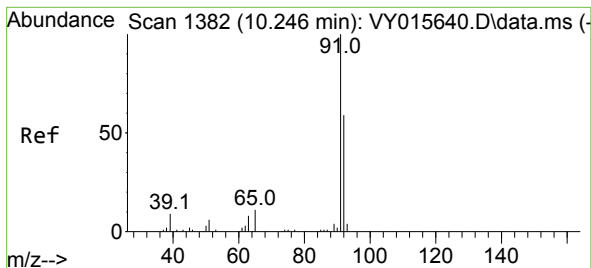
Tgt Ion: 98 Resp: 481679

Ion Ratio Lower Upper

98 100

100 65.4 50.1 75.1





#52

Toluene

Concen: 13.870 ug/l

RT: 10.240 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY015833.D

Acq: 04 Oct 2023 17:24

Instrument :

MSVOA_Y

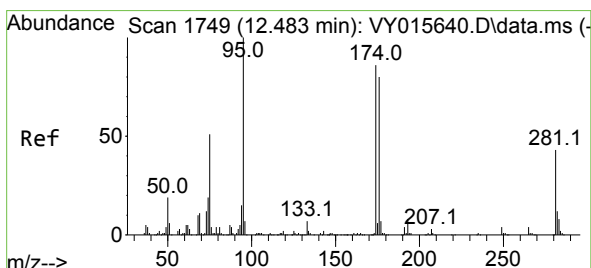
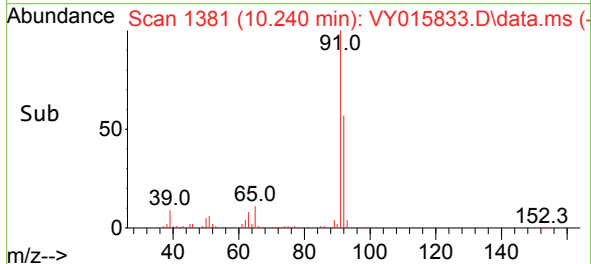
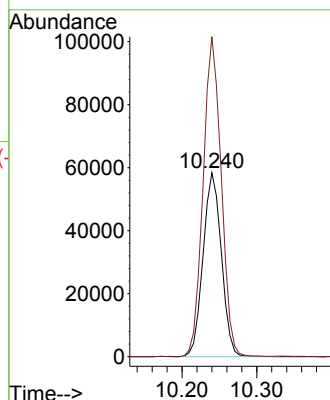
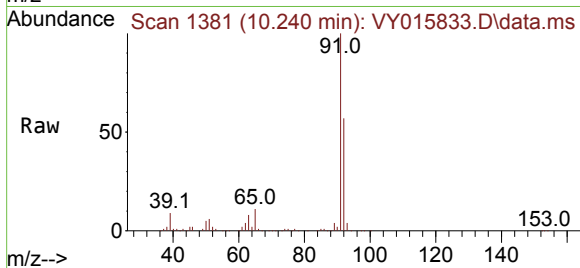
ClientSampleId :

Tgt Ion: 92 Resp: 99068

Ion Ratio Lower Upper

92 100

91 172.7 143.8 215.6



#62

4-Bromofluorobenzene

Concen: 46.739 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.000 min

Lab File: VY015833.D

Acq: 04 Oct 2023 17:24

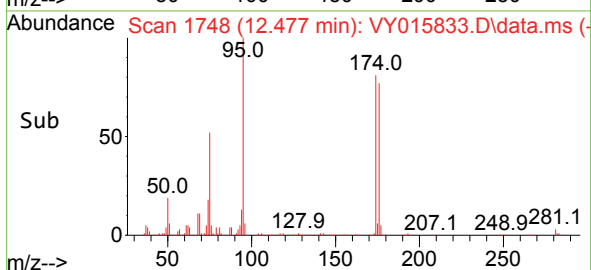
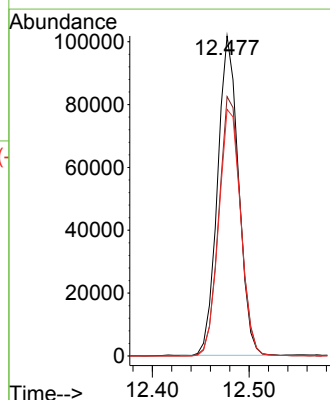
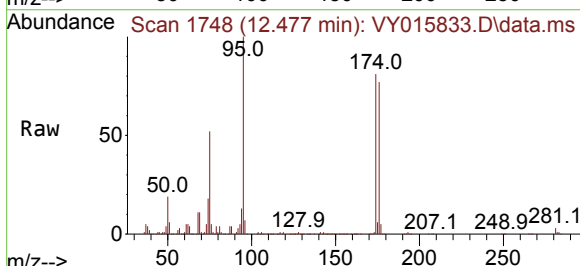
Tgt Ion: 95 Resp: 152814

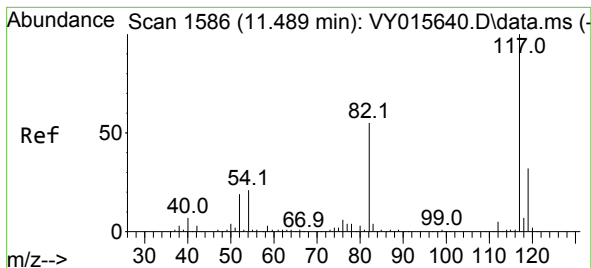
Ion Ratio Lower Upper

95 100

174 84.3 0.0 178.2

176 81.2 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.001 min

Lab File: VY015833.D

Acq: 04 Oct 2023 17:24

Instrument :

MSVOA_Y

ClientSampleId :

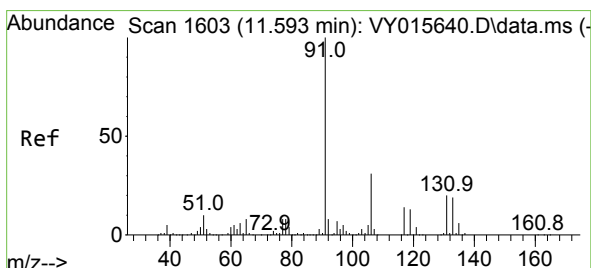
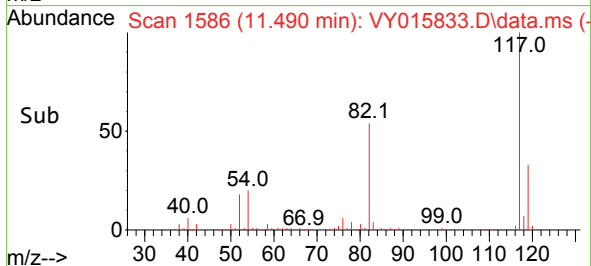
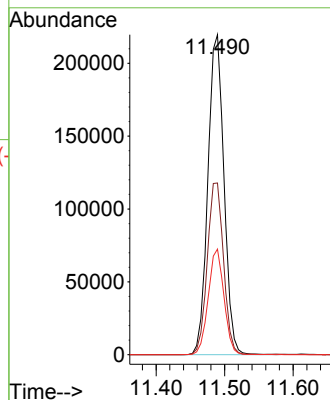
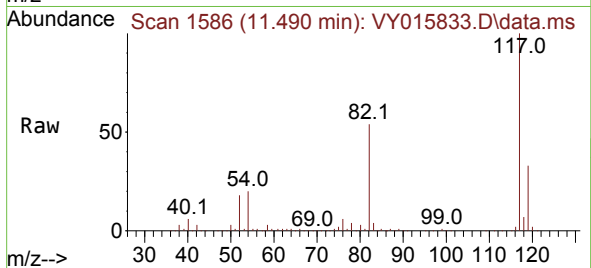
Tgt Ion:117 Resp: 359093

Ion Ratio Lower Upper

117 100

82 53.7 43.4 65.0

119 33.0 26.3 39.5



#67

Ethyl Benzene

Concen: 1.583 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.006 min

Lab File: VY015833.D

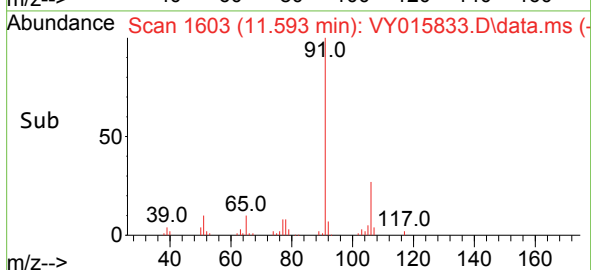
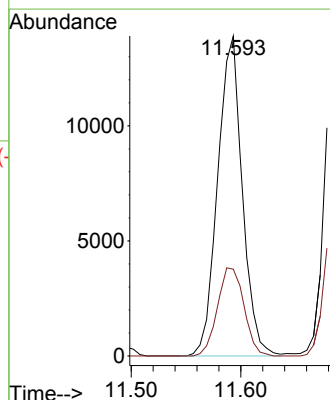
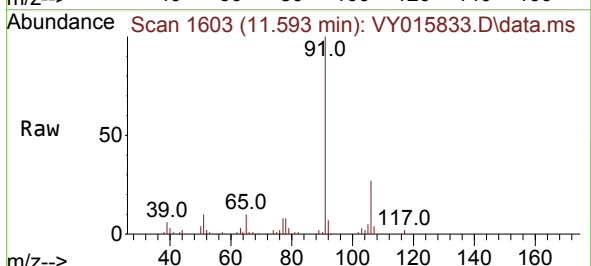
Acq: 04 Oct 2023 17:24

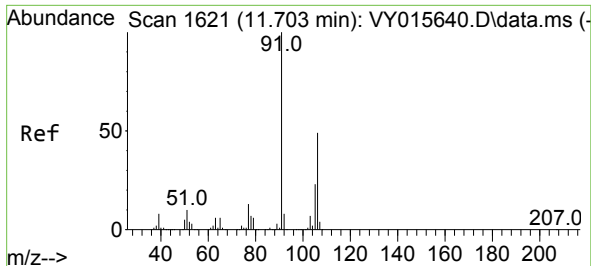
Tgt Ion: 91 Resp: 21688

Ion Ratio Lower Upper

91 100

106 27.1 24.6 36.8

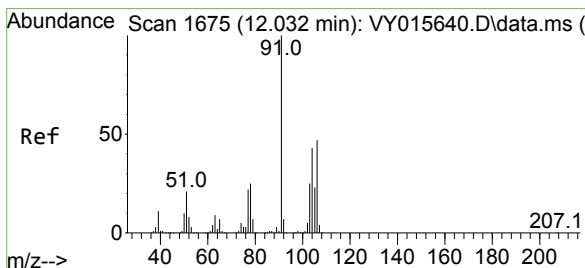
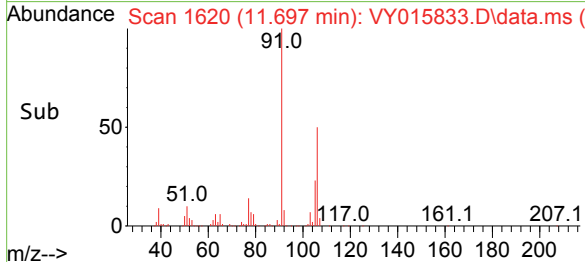
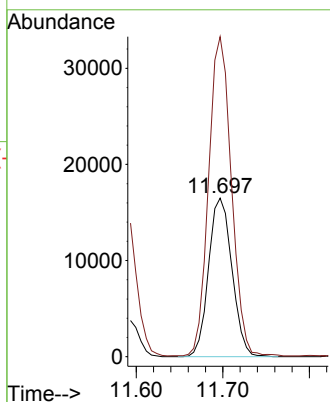
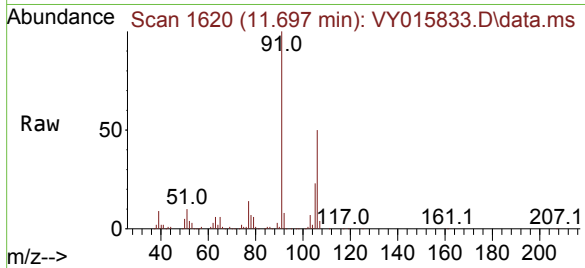




#68
m/p-Xylenes
Concen: 5.938 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

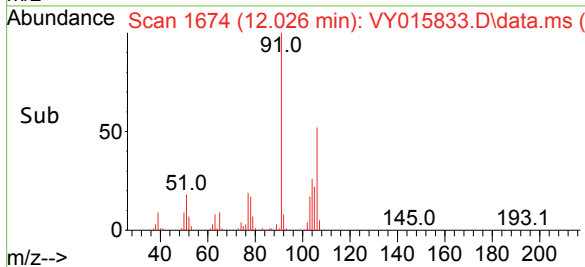
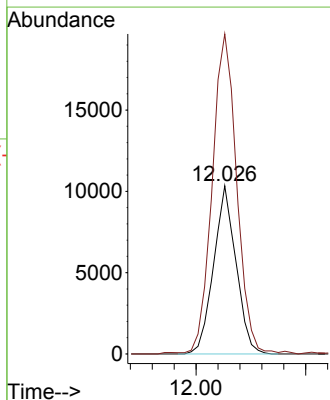
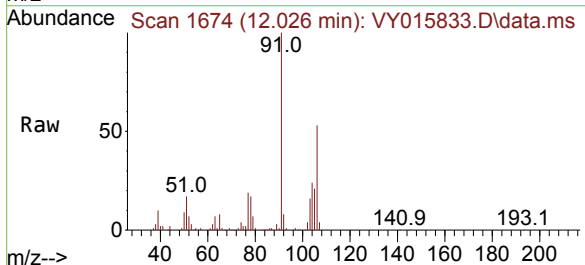
Instrument :
MSVOA_Y
ClientSampleId :

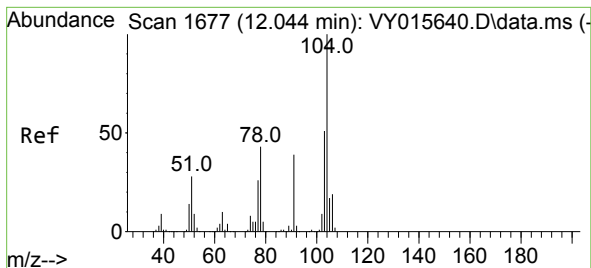
Tgt Ion:106 Resp: 30922
Ion Ratio Lower Upper
106 100
91 196.6 166.1 249.1



#69
o-Xylene
Concen: 2.875 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Tgt Ion:106 Resp: 14679
Ion Ratio Lower Upper
106 100
91 209.4 108.1 324.3





#70

Styrene

Concen: 2.603 ug/l

RT: 12.044 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015833.D

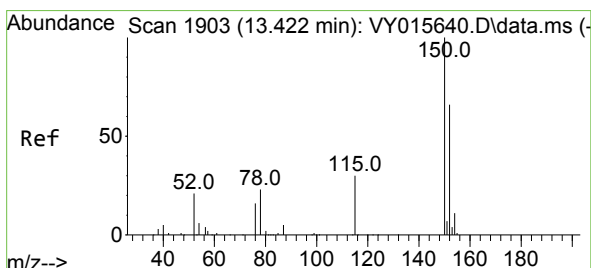
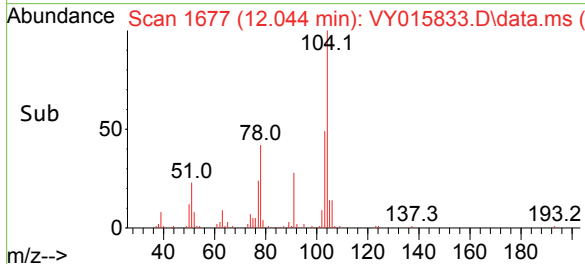
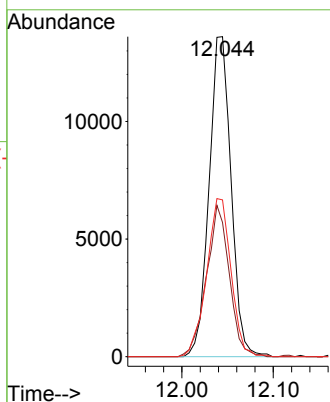
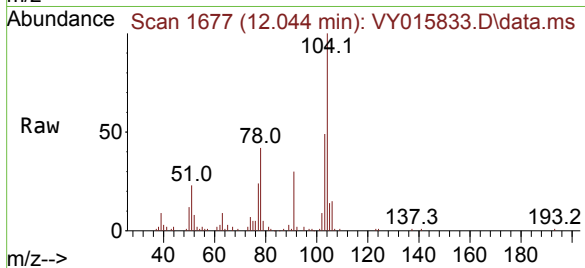
Acq: 04 Oct 2023 17:24

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:104	Resp:	22750
Ion Ratio	Lower	Upper
104	100	
78	49.2	41.5 62.3
103	54.8	44.6 67.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

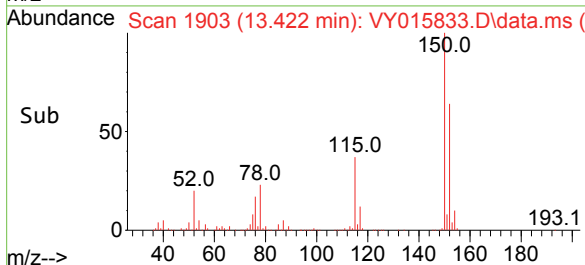
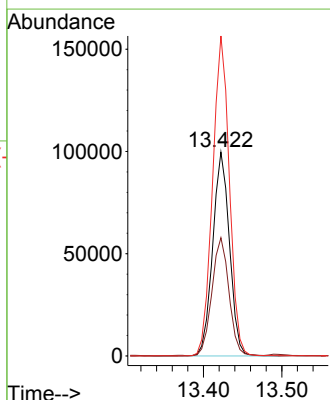
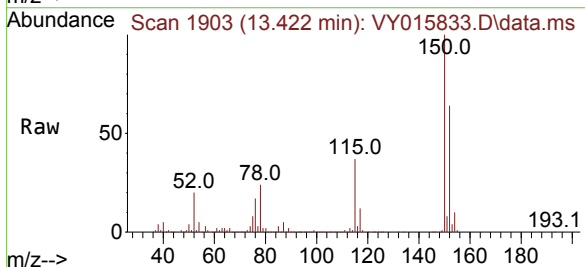
RT: 13.422 min Scan# 1903

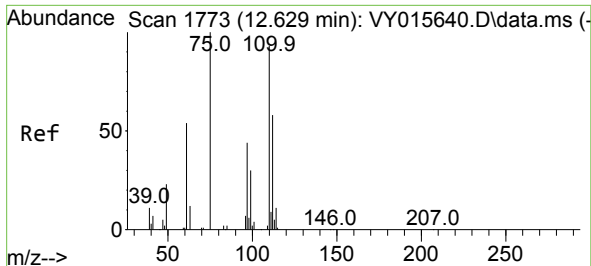
Delta R.T. 0.000 min

Lab File: VY015833.D

Acq: 04 Oct 2023 17:24

Tgt Ion:152	Resp:	148237
Ion Ratio	Lower	Upper
152	100	
115	58.8	28.8 86.5
150	157.2	0.0 348.8

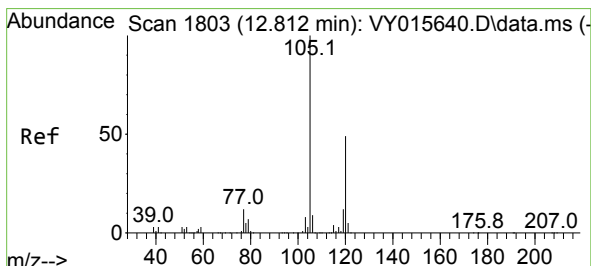
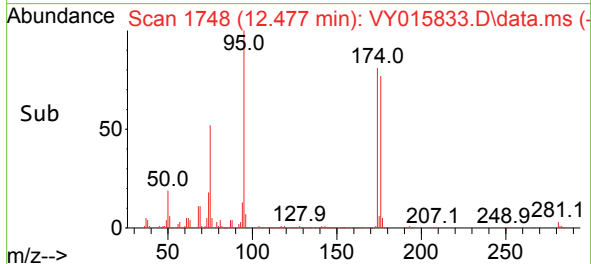
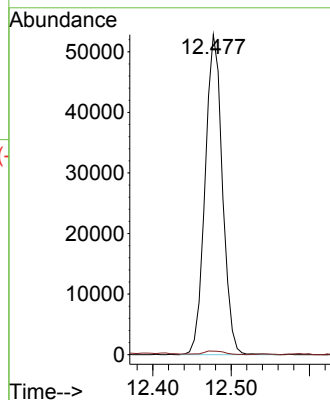
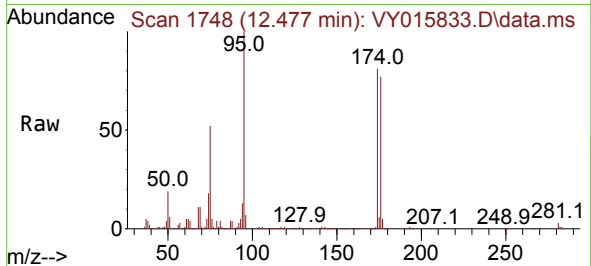




#76
1,2,3-Trichloropropane
Concen: 34.159 ug/l
RT: 12.477 min Scan# 1773
Delta R.T. -0.152 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

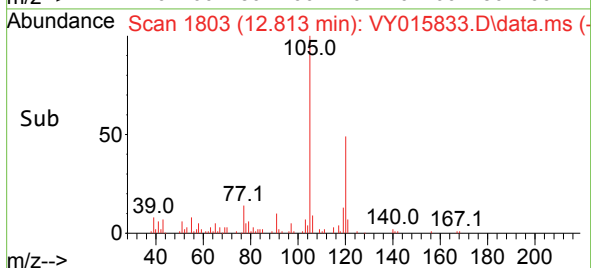
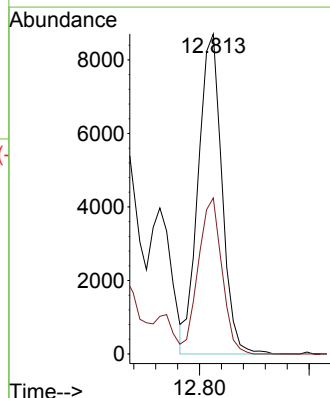
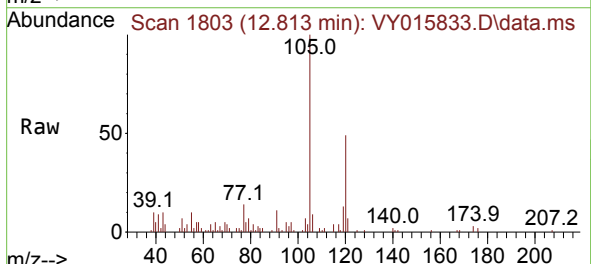
Instrument :
MSVOA_Y
ClientSampleId :

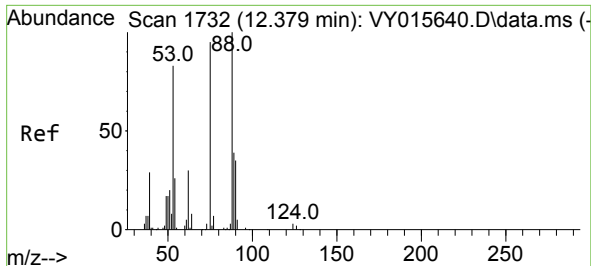
Tgt Ion: 75 Resp: 80782
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 1.404 ug/l
RT: 12.813 min Scan# 1803
Delta R.T. 0.001 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Tgt Ion:105 Resp: 13072
Ion Ratio Lower Upper
105 100
120 48.7 23.9 71.7

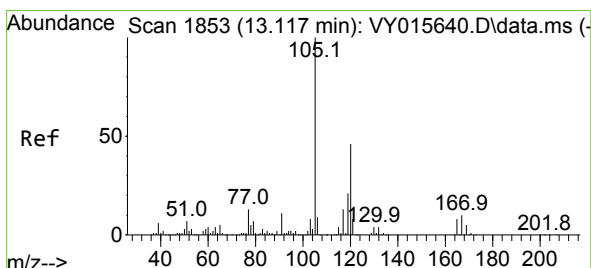
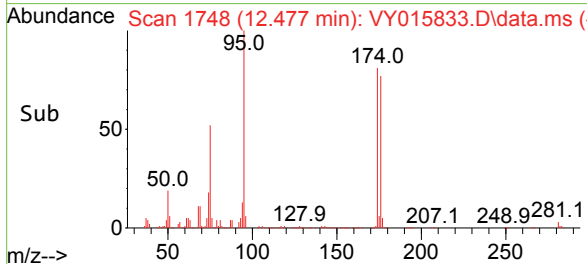
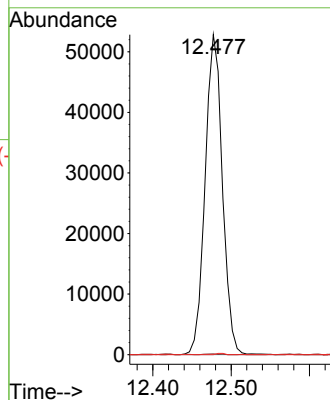
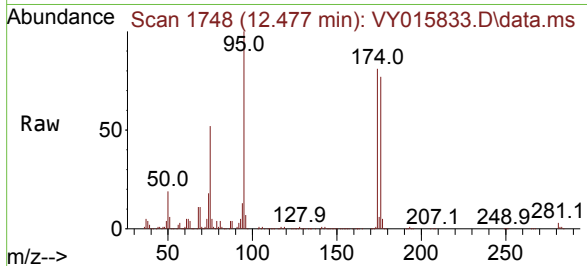




#81
trans-1,4-Dichloro-2-butene
Concen: 76.923 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

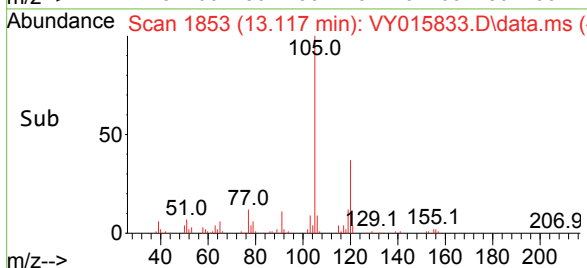
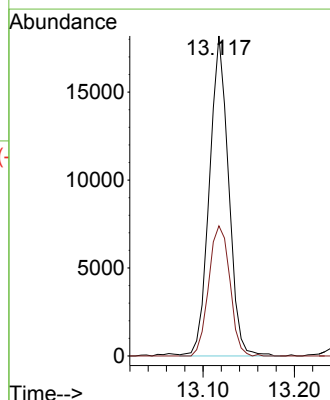
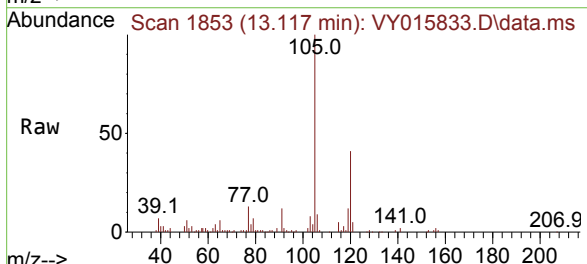
Instrument :
MSVOA_Y
ClientSampleId :

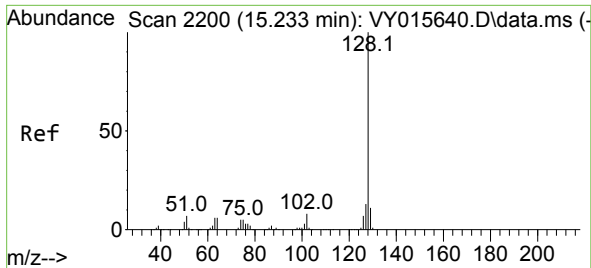
Tgt Ion: 75 Resp: 80782
Ion Ratio Lower Upper
75 100
53 0.2 77.8 116.8#
89 0.2 37.4 56.0#



#84
1,2,4-Trimethylbenzene
Concen: 2.834 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015833.D
Acq: 04 Oct 2023 17:24

Tgt Ion: 105 Resp: 26401
Ion Ratio Lower Upper
105 100
120 44.8 22.2 66.6





#95

Naphthalene

Concen: 51.153 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.000 min

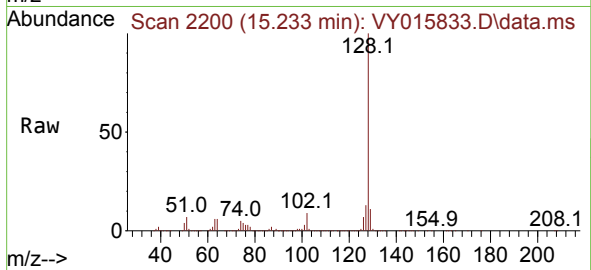
Lab File: VY015833.D

Acq: 04 Oct 2023 17:24

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 419766

Ion Ratio Lower Upper

128 100

127 12.8 10.8 16.2

129 11.1 8.6 13.0

