

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012524\
 Data File : VY017103.D
 Acq On : 25 Jan 2024 13:55
 Operator : SY/MD
 Sample : VY0125SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 26 04:42:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012424S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 25 04:44:10 2024
 Response via : Initial Calibration

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

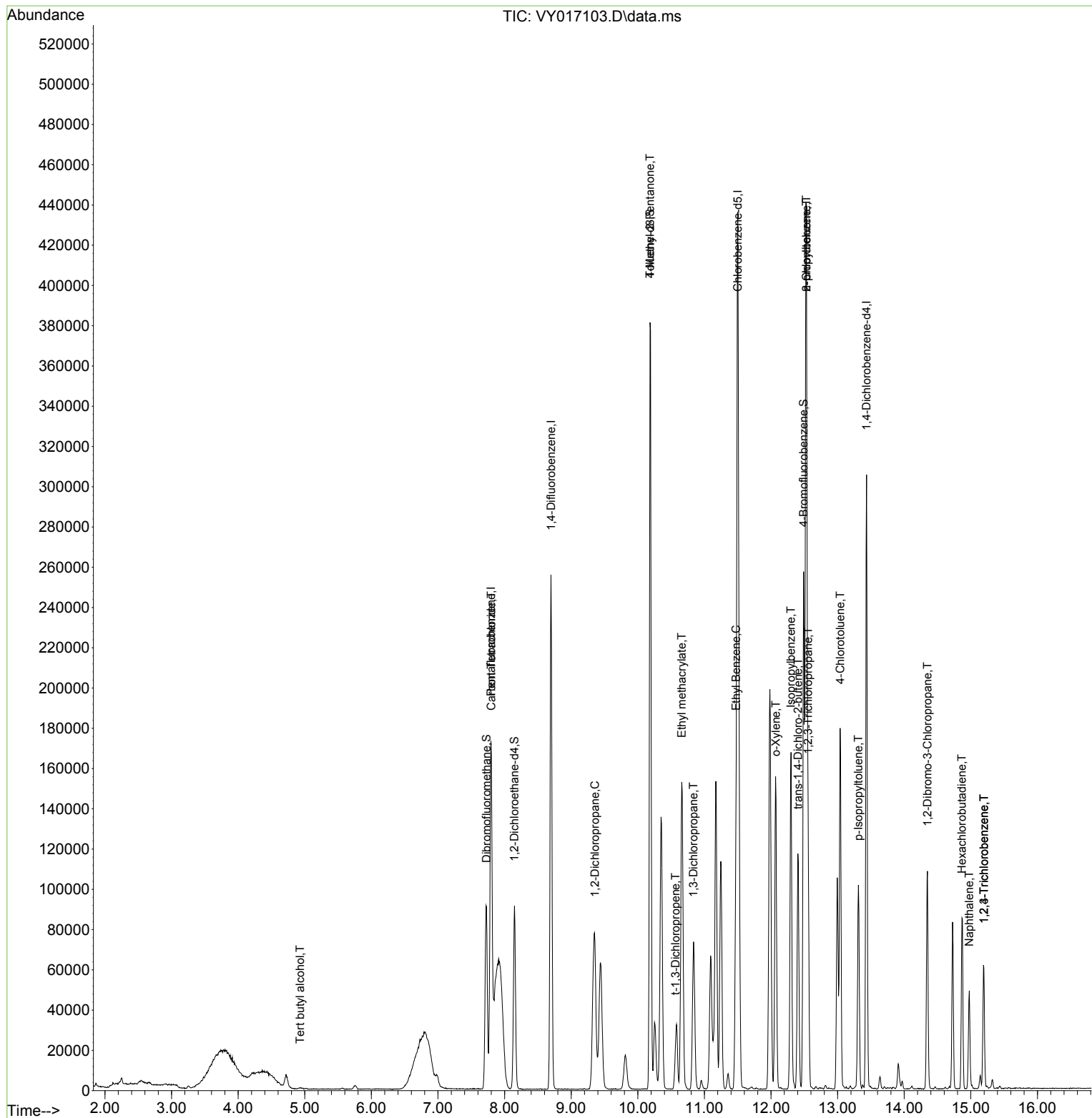
Internal Standards						
1) Pentafluorobenzene	7.795	168	123291	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	214557	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.502	117	193095	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	74430	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	65744	54.730	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.460%			
35) Dibromofluoromethane	7.728	113	66456	51.320	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.640%			
50) Toluene-d8	10.185	98	254340	52.001	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.000%			
62) 4-Bromofluorobenzene	12.489	95	77762	51.610	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.220%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.906	85	48	Below Cal	#	40
3) Chloromethane	2.113	50	217	Below Cal	#	41
4) Vinyl Chloride	2.253	62	103	Below Cal	#	43
5) Bromomethane	2.662	94	472	Below Cal	#	63
7) Trichlorofluoromethane	3.131	101	48	Below Cal	#	18
11) Tert butyl alcohol	4.930	59	388	4.160 ug/l	#	75
16) Acetone	3.960	43	533	Below Cal	#	59
20) Methylene Chloride	4.716	84	4455	Below Cal		90
25) 2-Butanone	6.990	43	233	Below Cal	#	48
31) Cyclohexane	7.789	56	2827	Below Cal	#	16
38) Carbon Tetrachloride	7.801	117	12691	6.078 ug/l	#	15
45) 1,2-Dichloropropane	9.356	63	5850	3.852 ug/l	#	1
51) 4-Methyl-2-Pentanone	10.185	43	1172	1.288 ug/l	#	1
53) t-1,3-Dichloropropene	10.569	75	7220	3.852 ug/l		99
56) Ethyl methacrylate	10.660	69	8596	8.720 ug/l	#	39
57) 1,3-Dichloropropane	10.837	76	3206	1.682 ug/l	#	1
67) Ethyl Benzene	11.477	91	100871	13.560 ug/l	#	44
69) o-Xylene	12.075	106	9525	3.752 ug/l		38
73) Isopropylbenzene	12.300	105	133005	21.737 ug/l	#	49
76) 1,2,3-Trichloropropane	12.556	75	16151	17.877 ug/l	#	100
78) n-propylbenzene	12.532	91	27203	3.696 ug/l	#	56
79) 2-Chlorotoluene	12.532	91	26946	6.672 ug/l	#	41
81) trans-1,4-Dichloro-2-b...	12.404	75	17167	49.194 ug/l	#	13
82) 4-Chlorotoluene	13.038	91	107891	25.777 ug/l	#	41
86) p-Isopropyltoluene	13.312	119	21962	4.251 ug/l	#	50
92) 1,2-Dibromo-3-Chloropr...	14.349	75	508	3.409 ug/l	#	1
93) 1,2,4-Trichlorobenzene	15.196	180	18974	16.265 ug/l		99
94) Hexachlorobutadiene	14.867	225	13784	19.633 ug/l		97
95) Naphthalene	14.977	128	34826	16.903 ug/l		98
96) 1,2,3-Trichlorobenzene	15.196	180	18973	19.550 ug/l		98

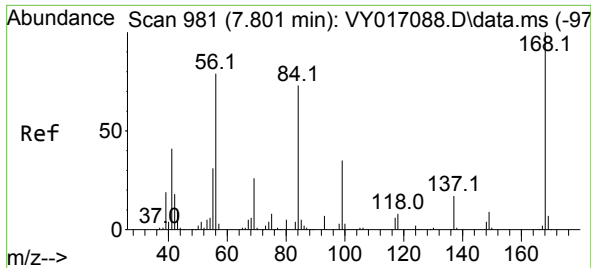
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jan 25 04:44:10 2024
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.795 min Scan# 9

Delta R.T. -0.006 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

Instrument :

MSVOA_Y

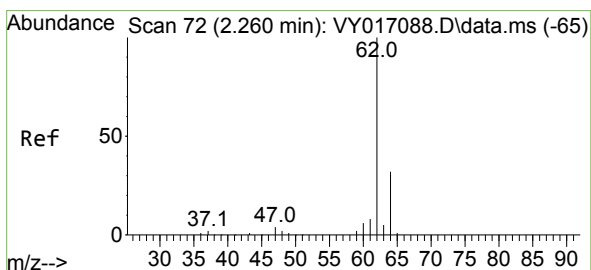
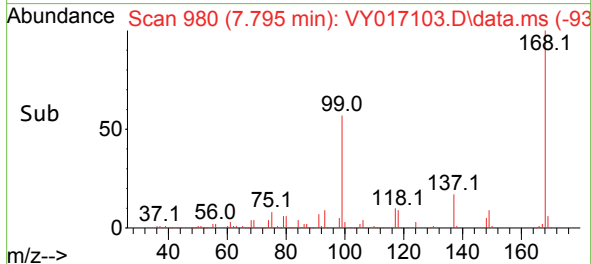
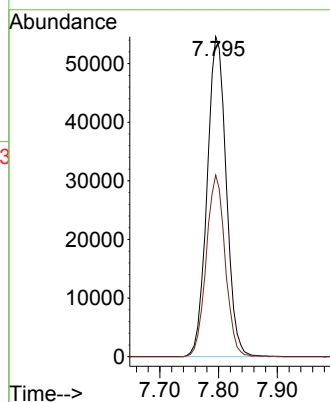
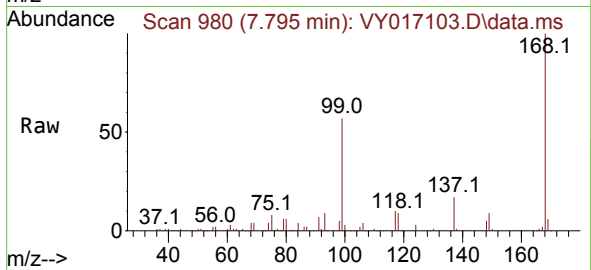
ClientSampleId :

Tgt Ion:168 Resp: 123291

Ion Ratio Lower Upper

168 100

99 56.7 44.2 66.4



#4

Vinyl Chloride

Concen: Below Cal

RT: 2.253 min Scan# 71

Delta R.T. -0.006 min

Lab File: VY017103.D

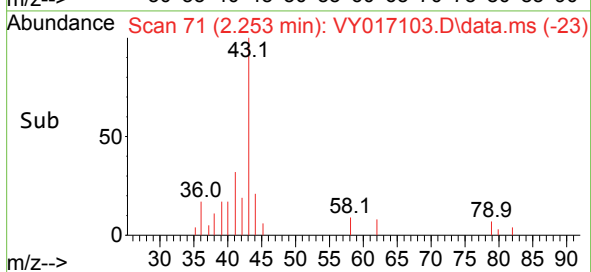
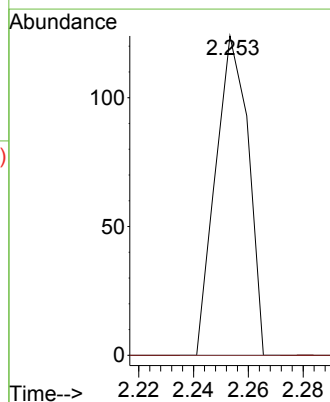
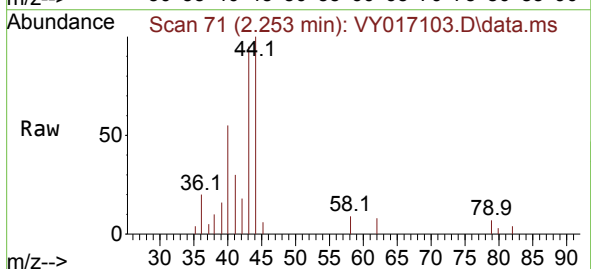
Acq: 25 Jan 2024 13:55

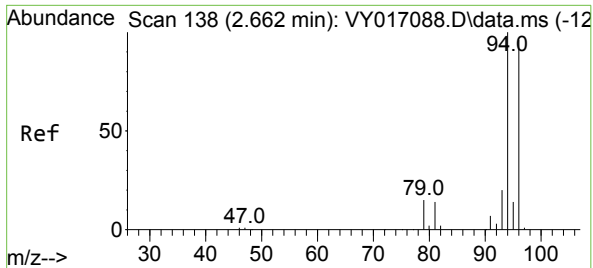
Tgt Ion: 62 Resp: 103

Ion Ratio Lower Upper

62 100

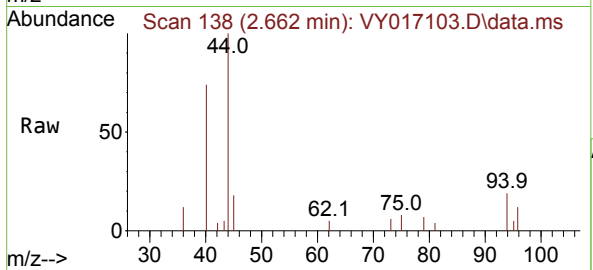
64 0.0 25.7 38.5#



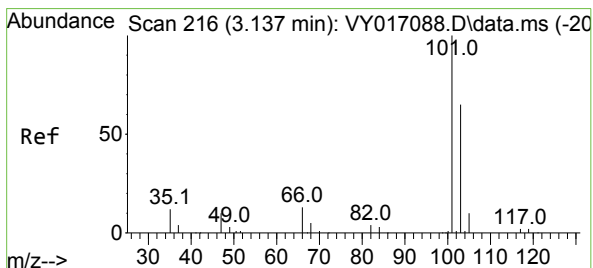
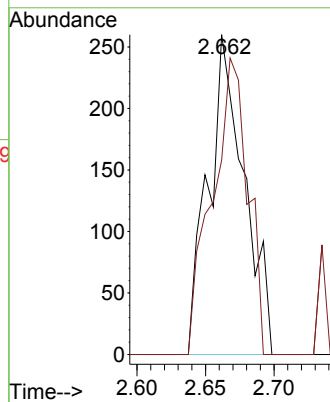
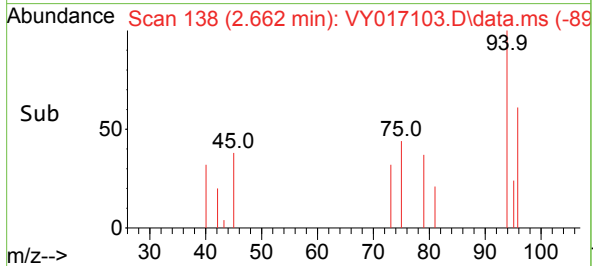


#5
Bromomethane
Concen: Below Cal
RT: 2.662 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

Instrument :
MSVOA_Y
ClientSampleId :

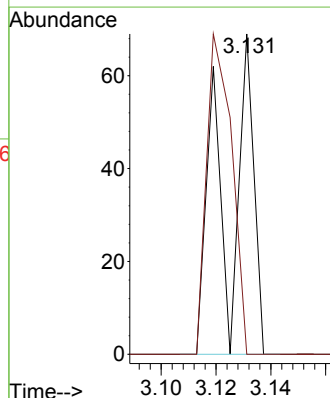
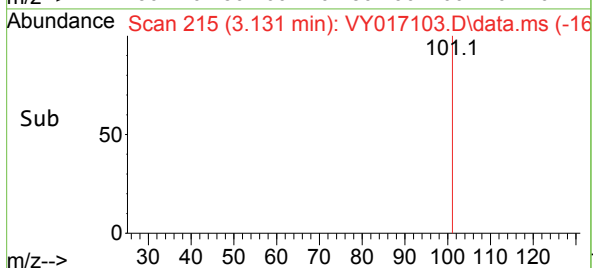
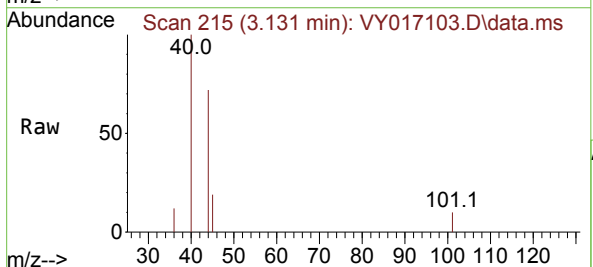


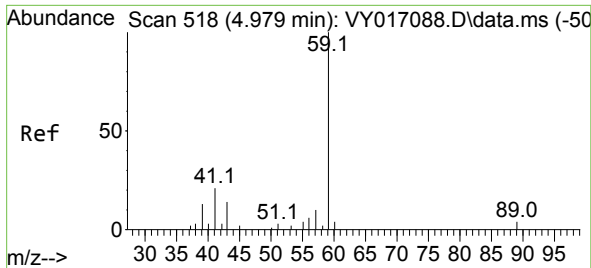
Tgt Ion: 94 Resp: 472
Ion Ratio Lower Upper
94 100
96 60.8 77.3 115.9#



#7
Trichlorofluoromethane
Concen: Below Cal
RT: 3.131 min Scan# 215
Delta R.T. -0.006 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

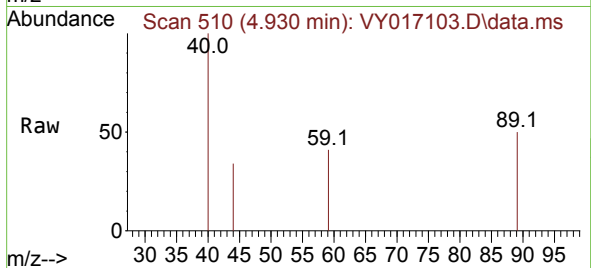
Tgt Ion:101 Resp: 48
Ion Ratio Lower Upper
101 100
103 0.0 51.9 77.9#



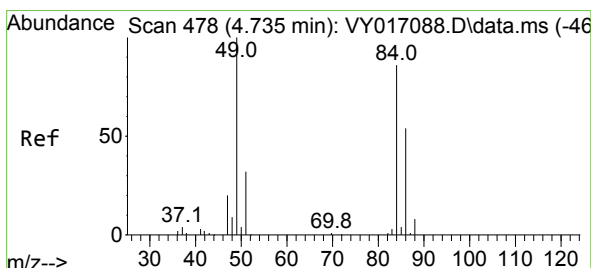
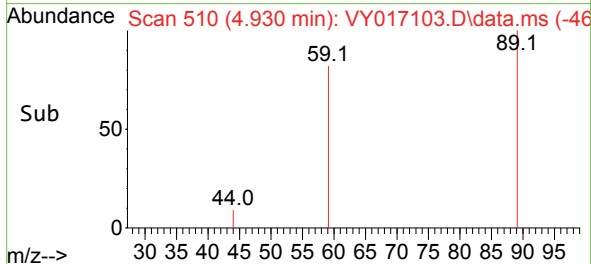
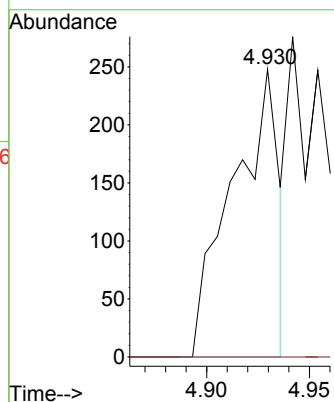


#11
Tert butyl alcohol
Concen: 4.160 ug/l
RT: 4.930 min Scan# 51
Delta R.T. -0.036 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

Instrument :
MSVOA_Y
ClientSampleId :

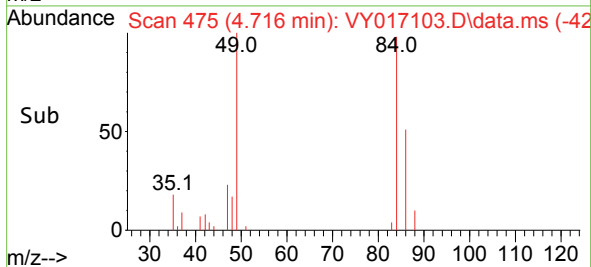
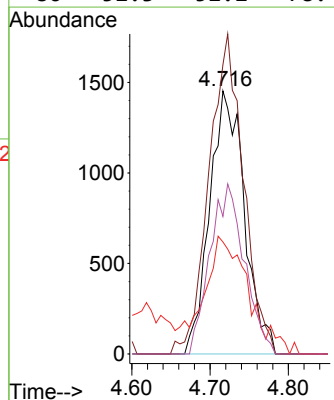
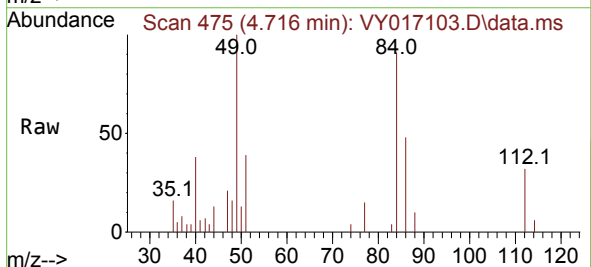


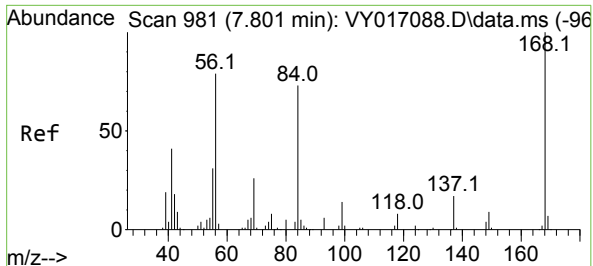
Tgt Ion: 59 Resp: 388
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.716 min Scan# 475
Delta R.T. -0.018 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

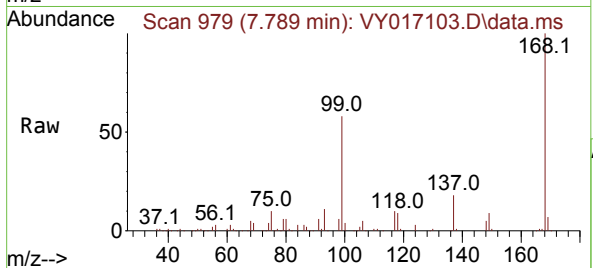
Tgt Ion: 84 Resp: 4455
Ion Ratio Lower Upper
84 100
49 109.9 95.2 142.8
51 36.0 29.9 44.9
86 52.3 52.2 78.4



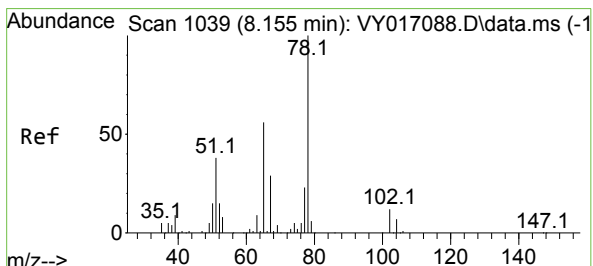
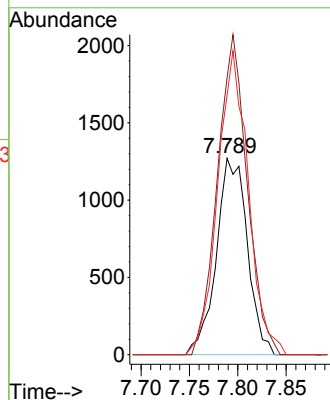
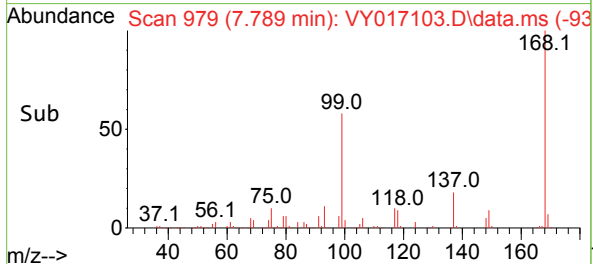


#31
Cyclohexane
Concen: Below Cal
RT: 7.789 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

Instrument :
MSVOA_Y
ClientSampleId :

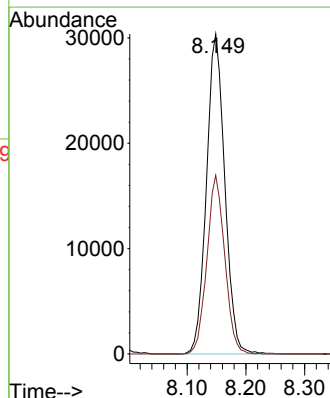
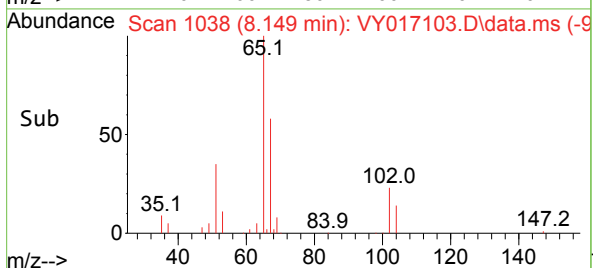
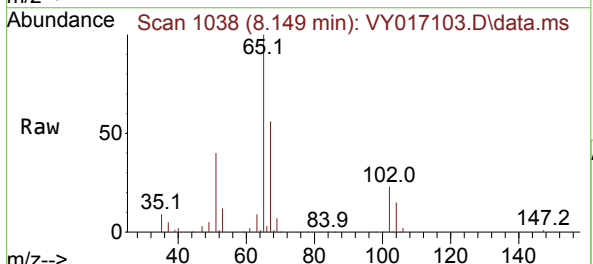


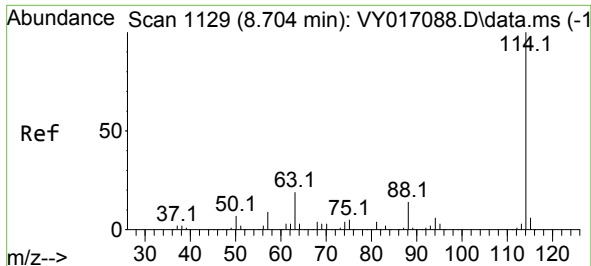
Tgt Ion: 56 Resp: 2827
Ion Ratio Lower Upper
56 100
69 141.2 27.0 40.6#
84 132.1 71.8 107.6#



#33
1,2-Dichloroethane-d4
Concen: 54.730 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. -0.006 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

Tgt Ion: 65 Resp: 65744
Ion Ratio Lower Upper
65 100
67 54.4 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

Instrument :

MSVOA_Y

ClientSampleId :

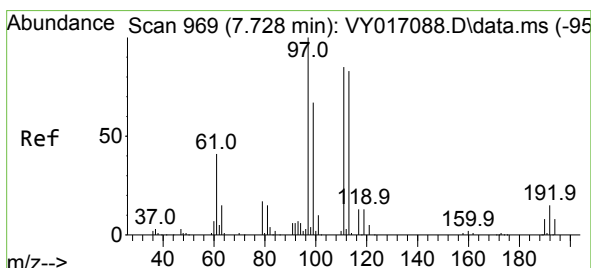
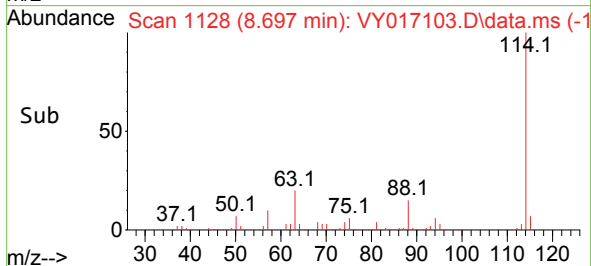
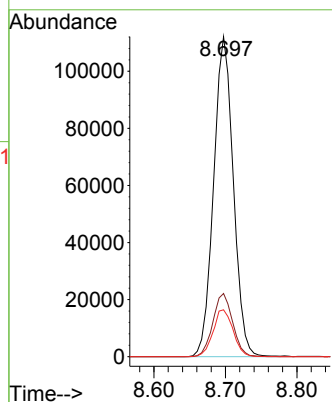
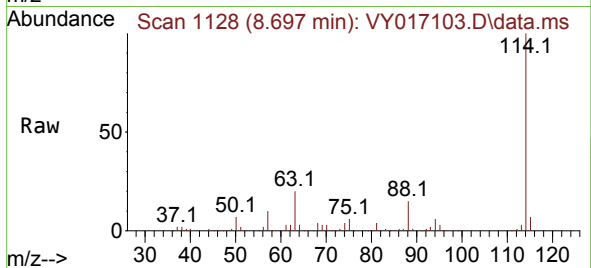
Tgt Ion:114 Resp: 214557

Ion Ratio Lower Upper

114 100

63 19.8 0.0 37.4

88 14.6 0.0 29.0



#35

Dibromofluoromethane

Concen: 51.320 ug/l

RT: 7.728 min Scan# 969

Delta R.T. -0.000 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

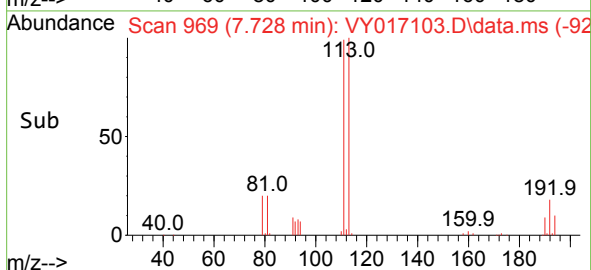
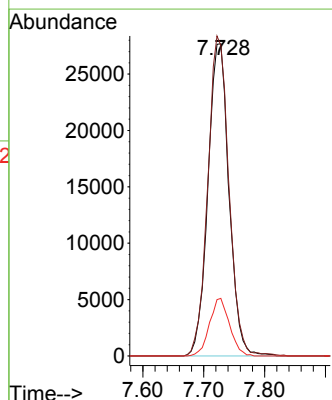
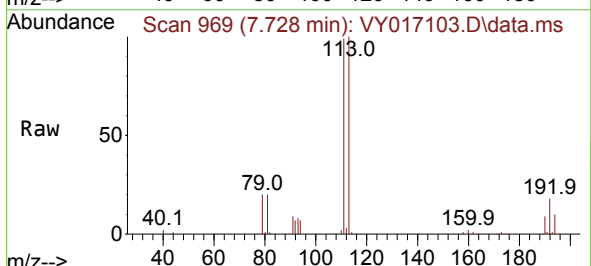
Tgt Ion:113 Resp: 66456

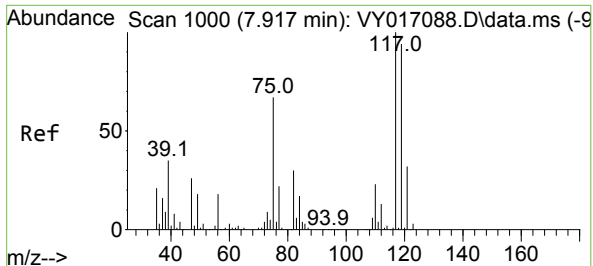
Ion Ratio Lower Upper

113 100

111 103.1 83.8 125.6

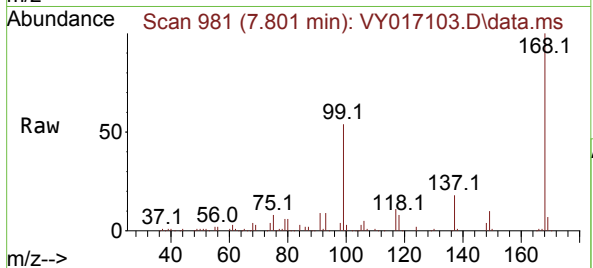
192 17.5 14.5 21.7



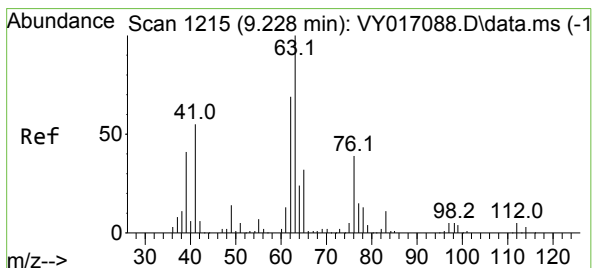
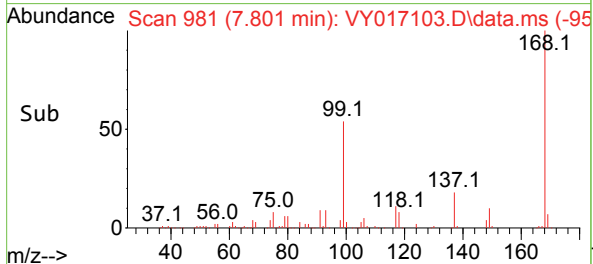
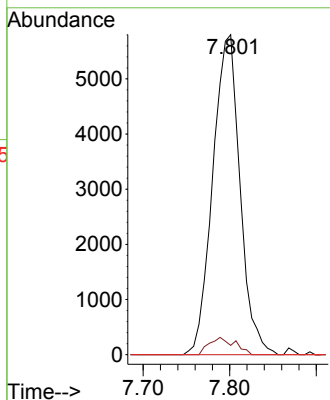


#38
Carbon Tetrachloride
Concen: 6.078 ug/l
RT: 7.801 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

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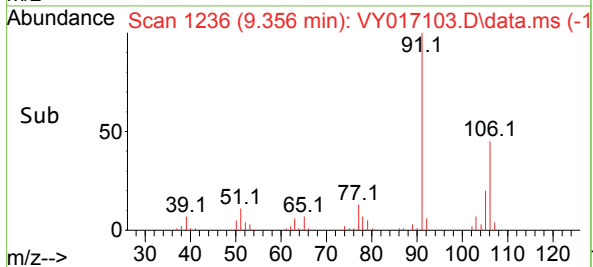
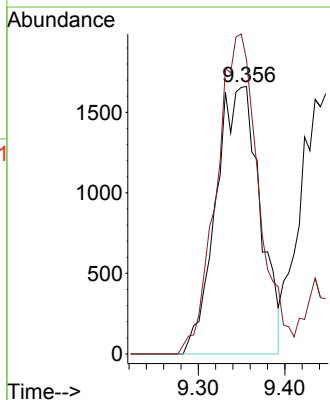
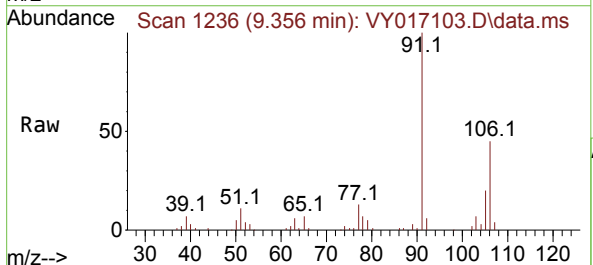


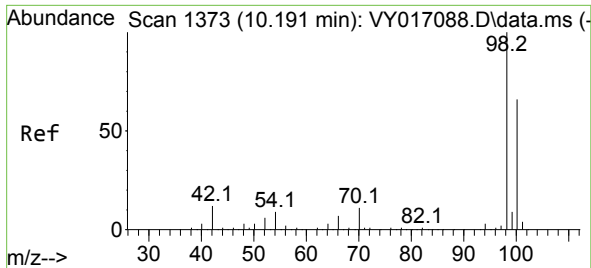
Tgt Ion:117 Resp: 12691
Ion Ratio Lower Upper
117 100
119 2.9 76.0 114.0#
121 0.0 24.2 36.2#



#45
1,2-Dichloropropane
Concen: 3.852 ug/l
RT: 9.356 min Scan# 1236
Delta R.T. 0.128 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

Tgt Ion: 63 Resp: 5850
Ion Ratio Lower Upper
63 100
65 110.0 24.6 36.8#

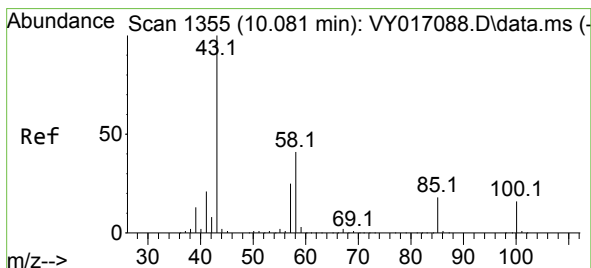
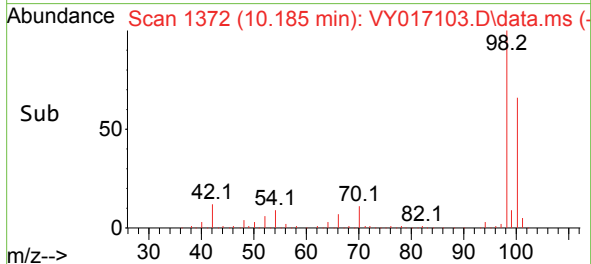
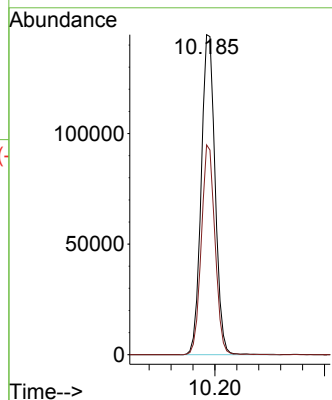
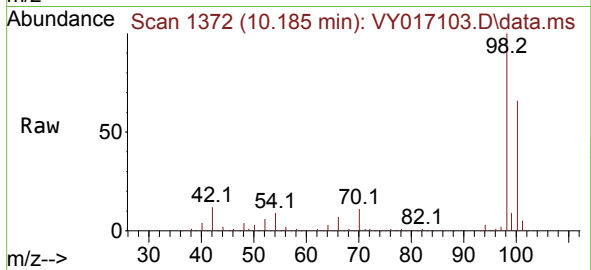




#50
Toluene-d8
Concen: 52.001 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. -0.006 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

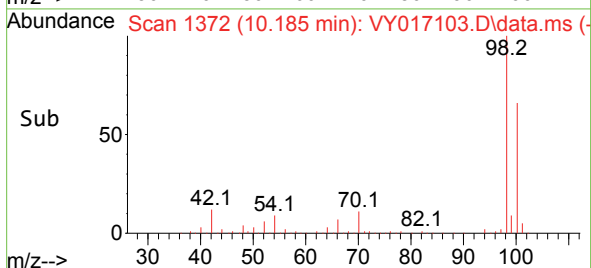
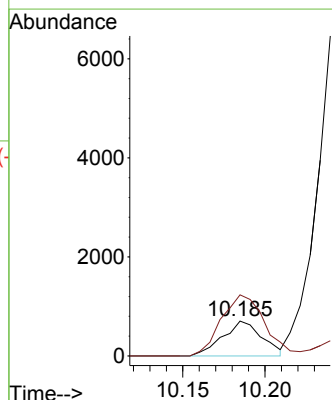
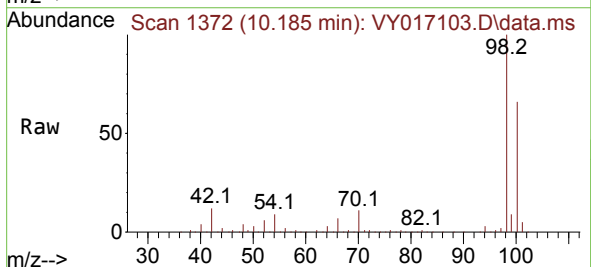
Instrument :
MSVOA_Y
ClientSampleId :

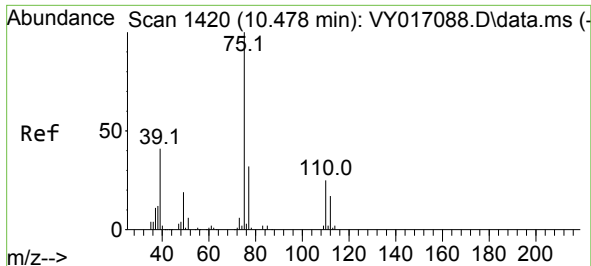
Tgt Ion: 98 Resp: 254340
Ion Ratio Lower Upper
98 100
100 64.4 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 1.288 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.104 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

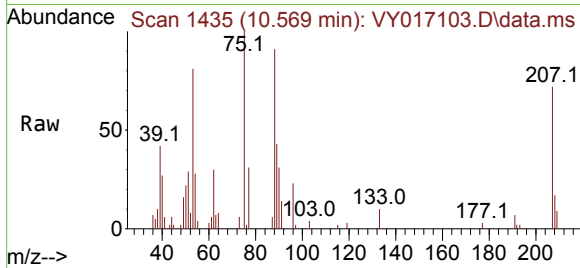
Tgt Ion: 43 Resp: 1172
Ion Ratio Lower Upper
43 100
58 194.5 32.2 48.2#



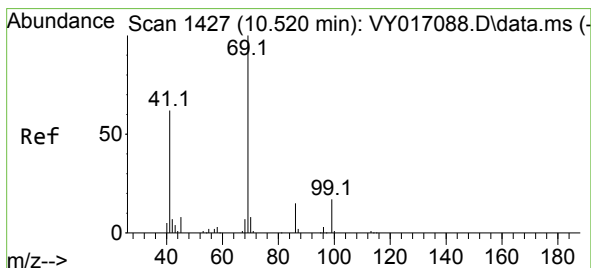
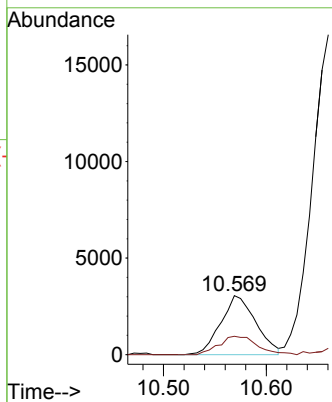
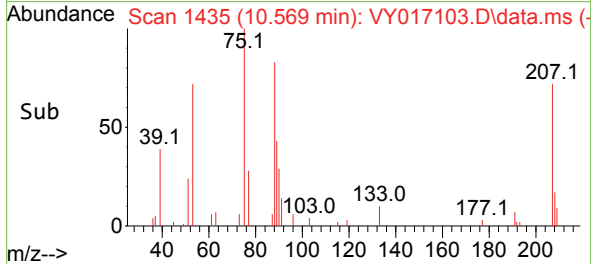


#53
t-1,3-Dichloropropene
Concen: 3.852 ug/l
RT: 10.569 min Scan# 1420
Delta R.T. 0.098 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

Instrument :
MSVOA_Y
ClientSampleId :

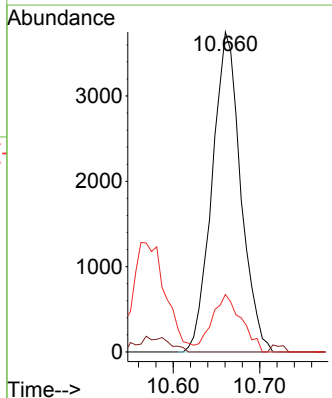
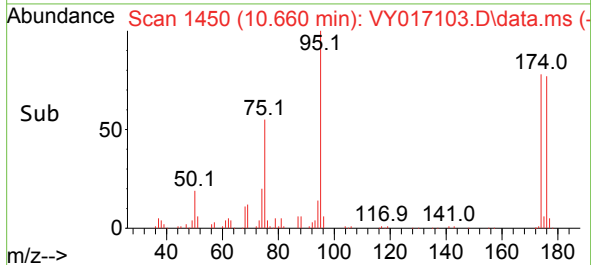
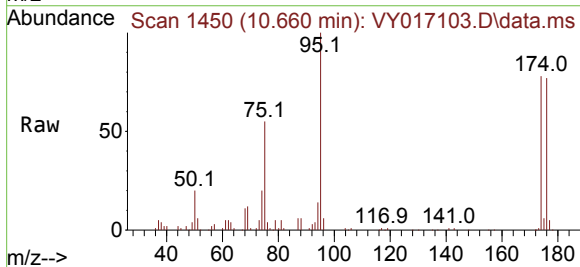


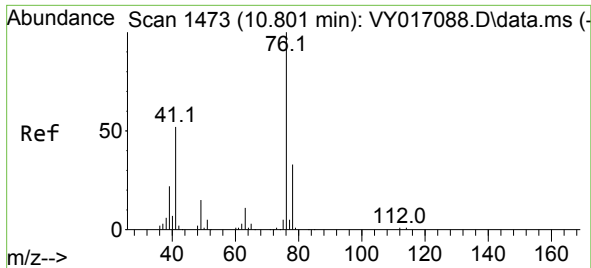
Tgt Ion: 75 Resp: 7220
Ion Ratio Lower Upper
75 100
77 31.2 24.6 36.8



#56
Ethyl methacrylate
Concen: 8.720 ug/l
RT: 10.660 min Scan# 1450
Delta R.T. 0.140 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

Tgt Ion: 69 Resp: 8596
Ion Ratio Lower Upper
69 100
41 0.0 49.2 73.8#
39 18.5 26.8 40.2#





#57

1,3-Dichloropropane

Concen: 1.682 ug/l

RT: 10.837 min Scan# 1473

Delta R.T. 0.037 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

Instrument :

MSVOA_Y

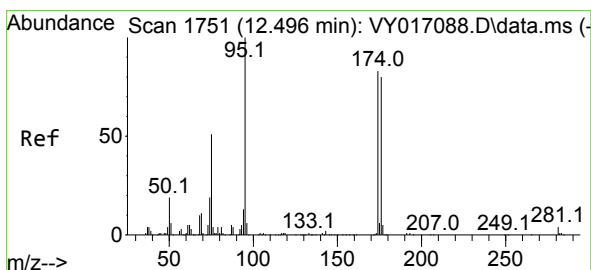
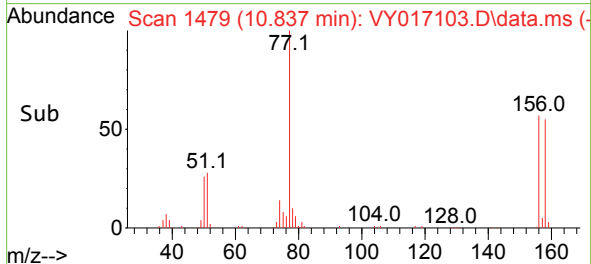
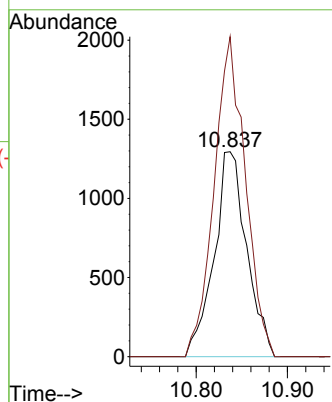
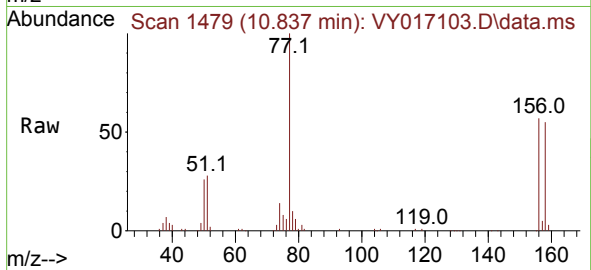
ClientSampleId :

Tgt Ion: 76 Resp: 3206

Ion Ratio Lower Upper

76 100

78 150.2 26.1 39.1#



#62

4-Bromofluorobenzene

Concen: 51.610 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. 0.000 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

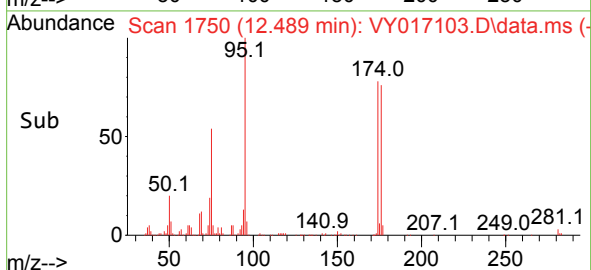
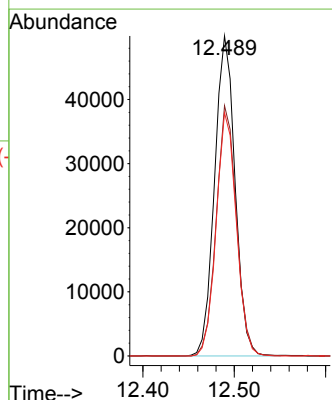
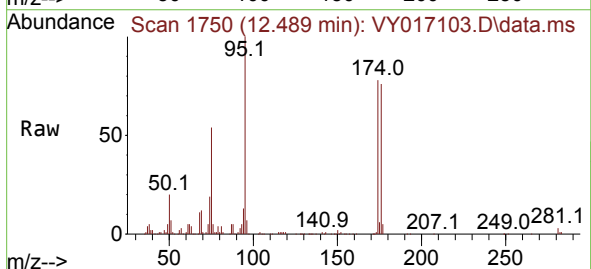
Tgt Ion: 95 Resp: 77762

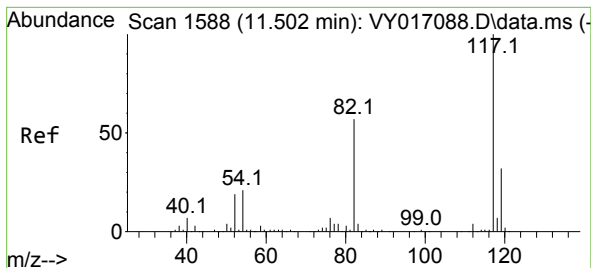
Ion Ratio Lower Upper

95 100

174 77.5 0.0 160.0

176 74.8 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.502 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

Instrument :

MSVOA_Y

ClientSampleId :

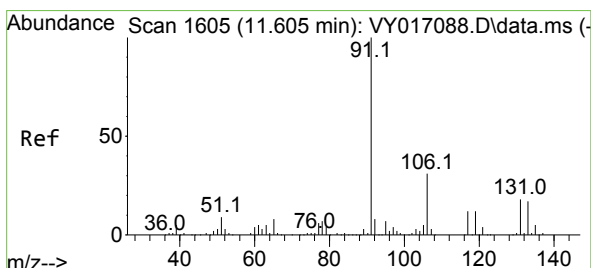
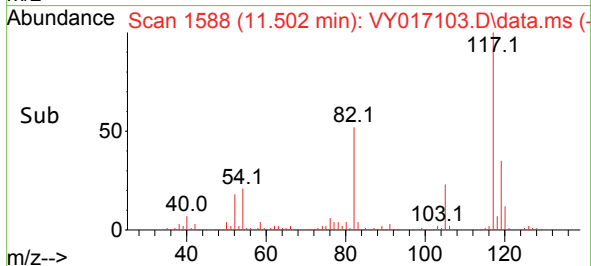
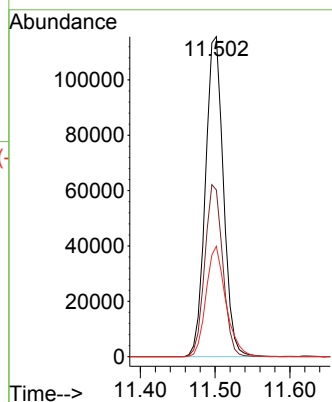
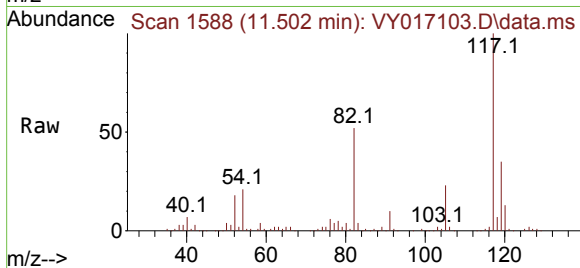
Tgt Ion:117 Resp: 193095

Ion Ratio Lower Upper

117 100

82 52.1 43.8 65.8

119 34.5 26.5 39.7



#67

Ethyl Benzene

Concen: 13.560 ug/l

RT: 11.477 min Scan# 1584

Delta R.T. -0.122 min

Lab File: VY017103.D

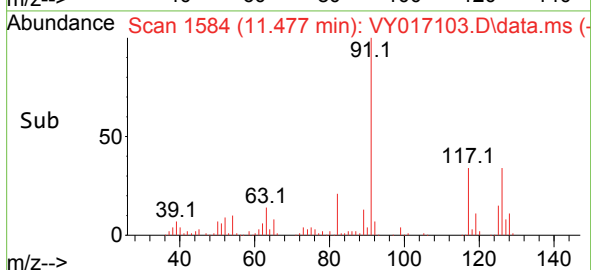
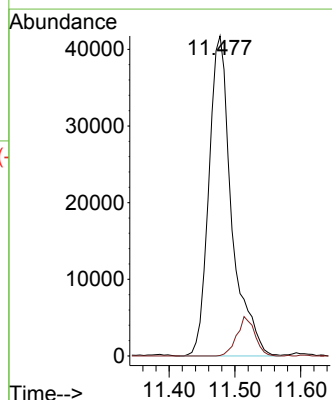
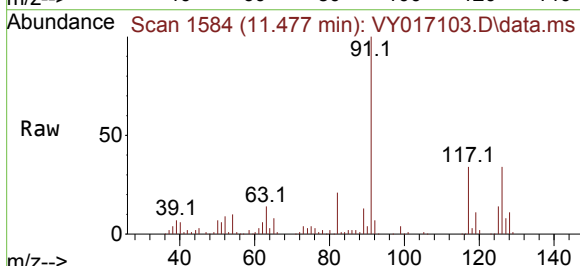
Acq: 25 Jan 2024 13:55

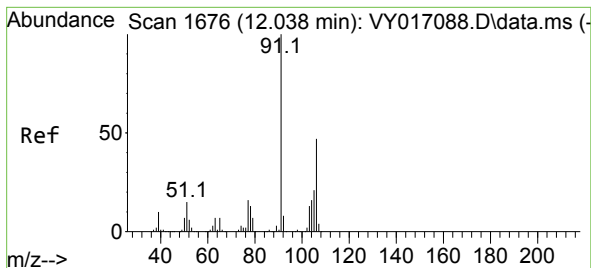
Tgt Ion: 91 Resp: 100871

Ion Ratio Lower Upper

91 100

106 0.2 25.0 37.4#





#69

o-Xylene

Concen: 3.752 ug/l

RT: 12.075 min Scan# 1

Delta R.T. 0.037 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

Instrument :

MSVOA_Y

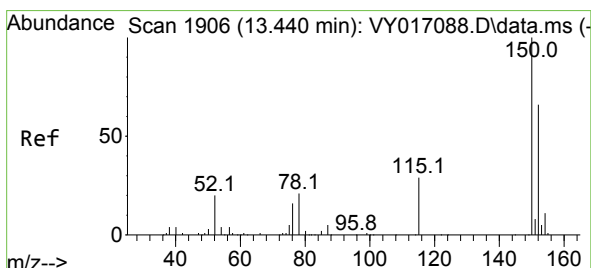
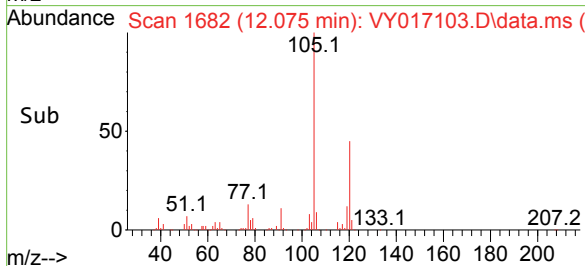
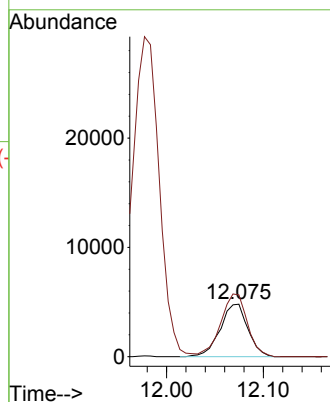
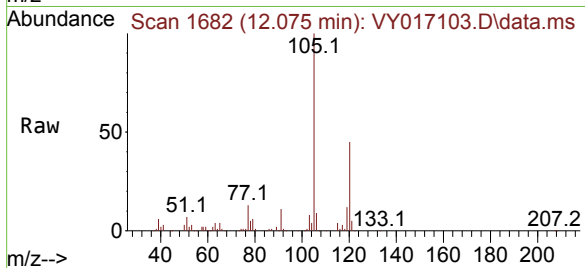
ClientSampleId :

Tgt Ion:106 Resp: 9525

Ion Ratio Lower Upper

106 100

91 115.1 106.5 319.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.000 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

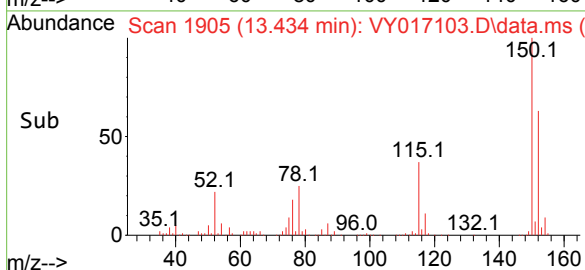
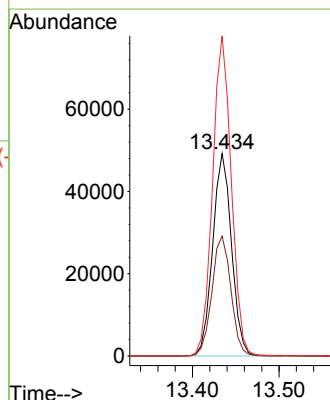
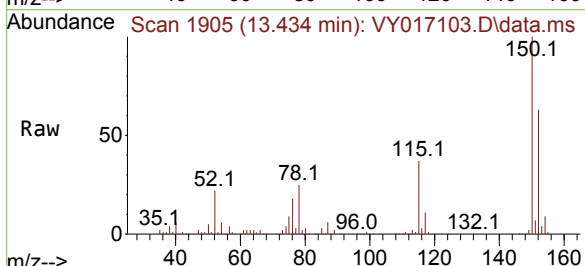
Tgt Ion:152 Resp: 74430

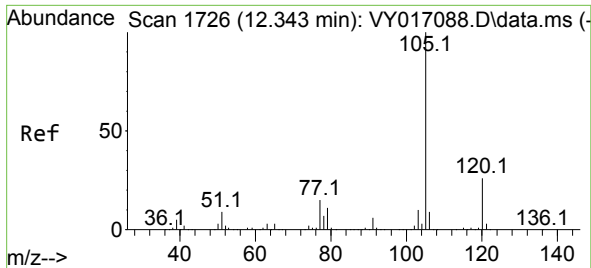
Ion Ratio Lower Upper

152 100

115 59.7 30.0 90.0

150 157.2 0.0 344.6

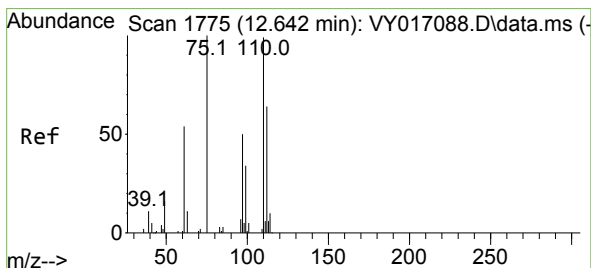
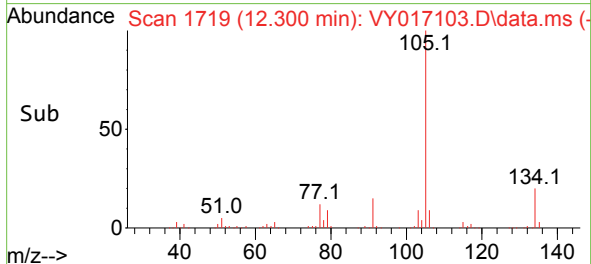
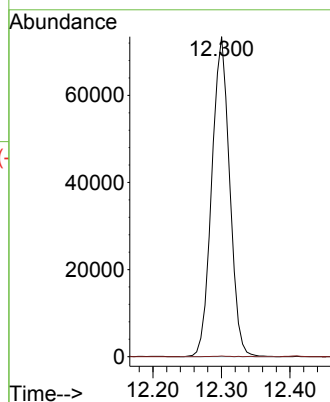
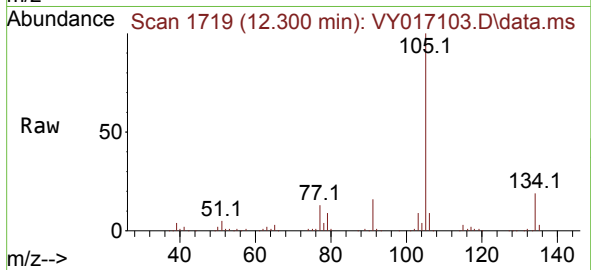




#73
Isopropylbenzene
Concen: 21.737 ug/l
RT: 12.300 min Scan# 1719
Delta R.T. -0.037 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

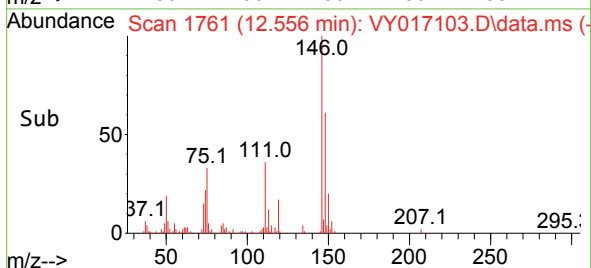
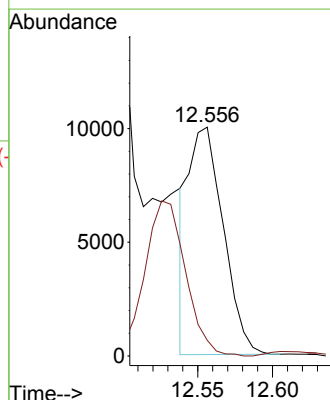
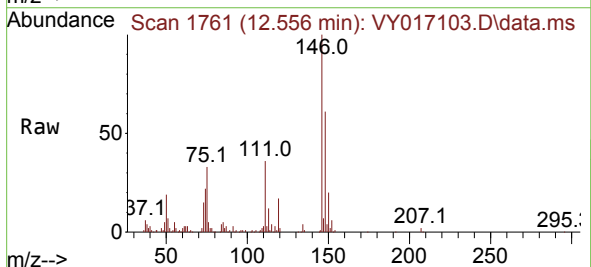
Instrument :
MSVOA_Y
ClientSampleId :

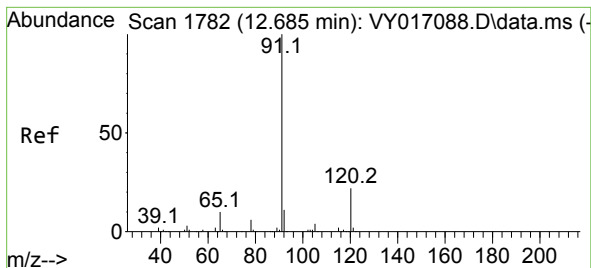
Tgt Ion:105 Resp: 133005
Ion Ratio Lower Upper
105 100
120 0.0 13.0 39.0#



#76
1,2,3-Trichloropropane
Concen: 17.877 ug/l
RT: 12.556 min Scan# 1761
Delta R.T. -0.086 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

Tgt Ion: 75 Resp: 16151
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#78

n-propylbenzene

Concen: 3.696 ug/l

RT: 12.532 min Scan# 1757

Delta R.T. -0.146 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

Instrument :

MSVOA_Y

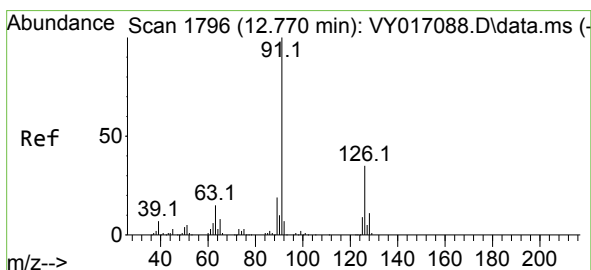
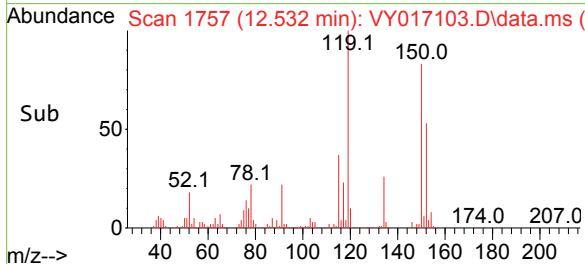
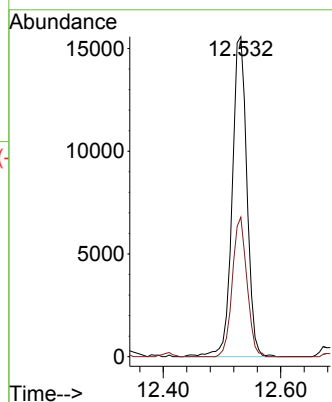
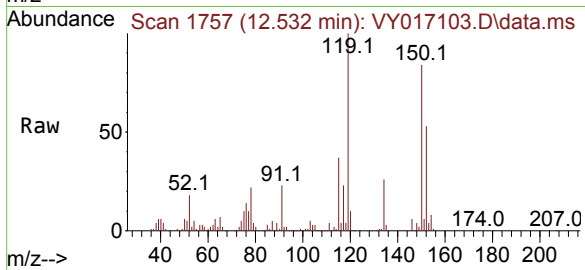
ClientSampleId :

Tgt Ion: 91 Resp: 27203

Ion Ratio Lower Upper

91 100

120 43.1 11.0 33.0#



#79

2-Chlorotoluene

Concen: 6.672 ug/l

RT: 12.532 min Scan# 1757

Delta R.T. -0.231 min

Lab File: VY017103.D

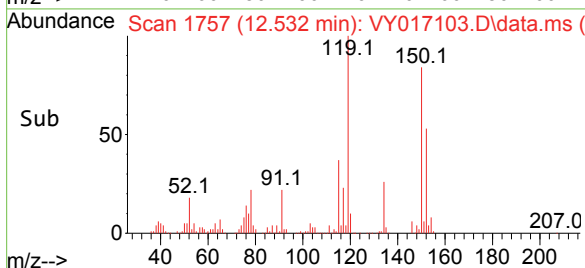
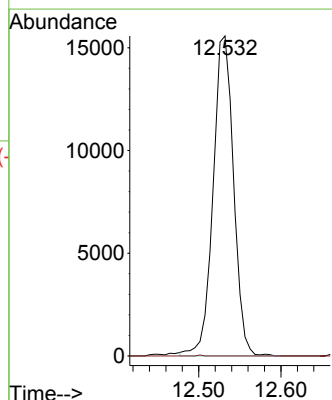
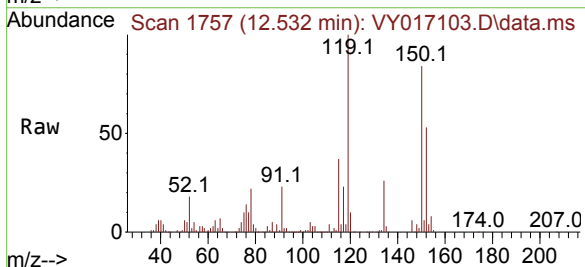
Acq: 25 Jan 2024 13:55

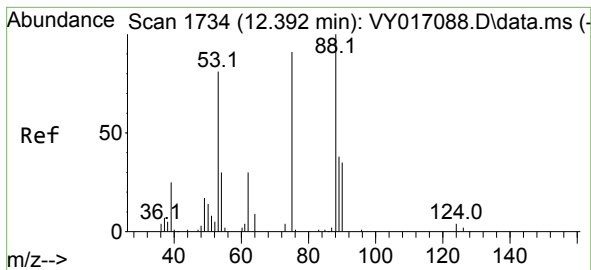
Tgt Ion: 91 Resp: 26946

Ion Ratio Lower Upper

91 100

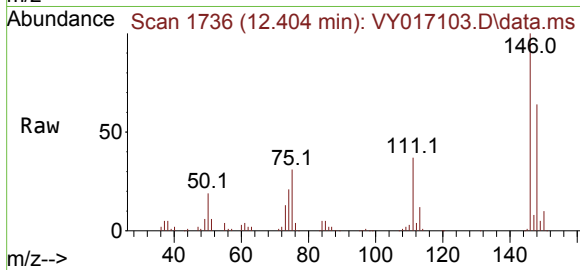
126 0.0 17.0 51.0#



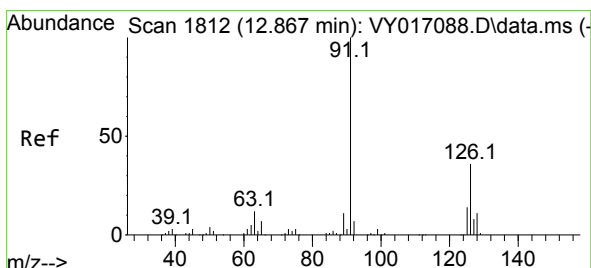
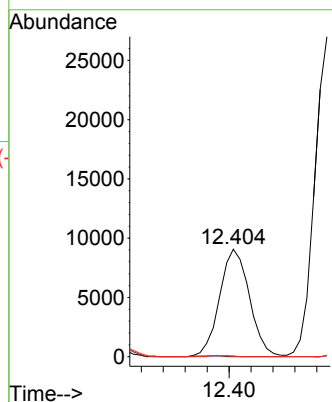
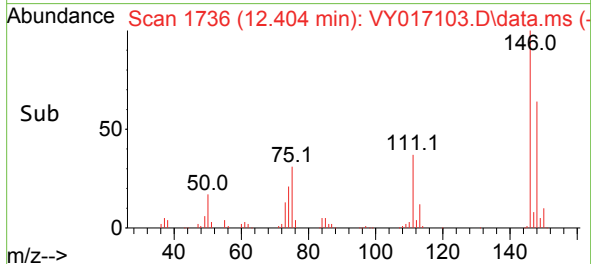


#81
trans-1,4-Dichloro-2-butene
Concen: 49.194 ug/l
RT: 12.404 min Scan# 1736
Delta R.T. 0.019 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

Instrument :
MSVOA_Y
ClientSampleId :

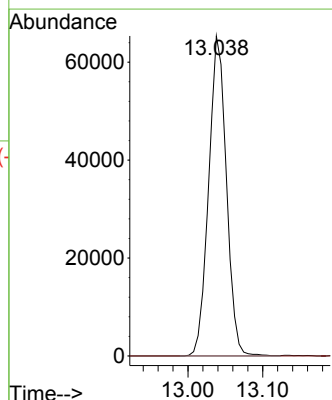
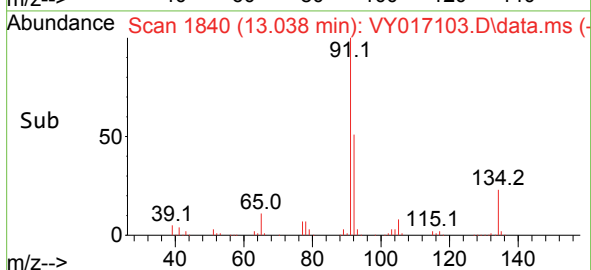
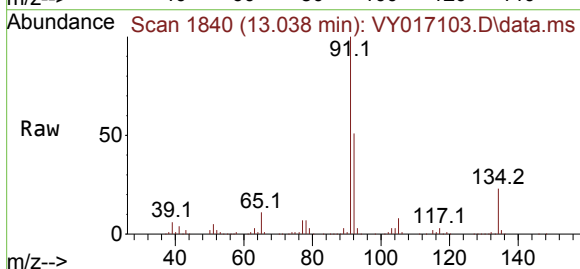


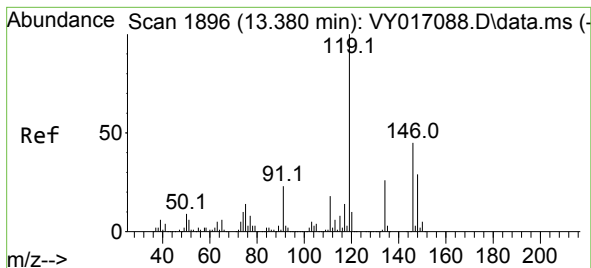
Tgt Ion: 75 Resp: 17167
Ion Ratio Lower Upper
75 100
53 0.7 74.0 111.0#
89 0.0 36.5 54.7#



#82
4-Chlorotoluene
Concen: 25.777 ug/l
RT: 13.038 min Scan# 1840
Delta R.T. 0.177 min
Lab File: VY017103.D
Acq: 25 Jan 2024 13:55

Tgt Ion: 91 Resp: 107891
Ion Ratio Lower Upper
91 100
126 0.0 17.1 51.2#





#86

p-Isopropyltoluene

Concen: 4.251 ug/l

RT: 13.312 min Scan# 119

Delta R.T. -0.067 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

Instrument :

MSVOA_Y

ClientSampleId :

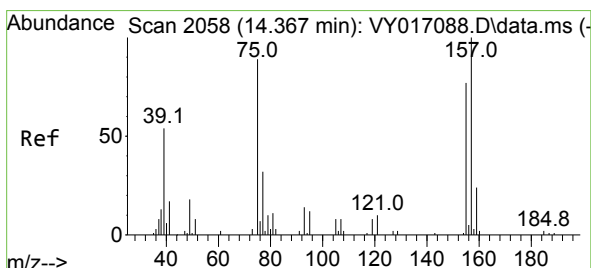
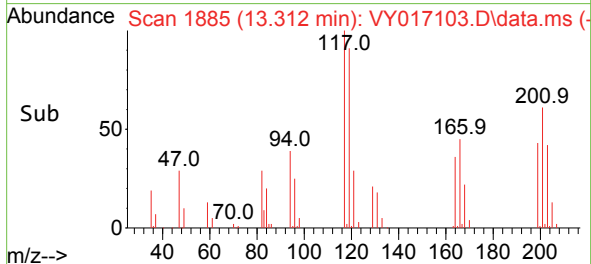
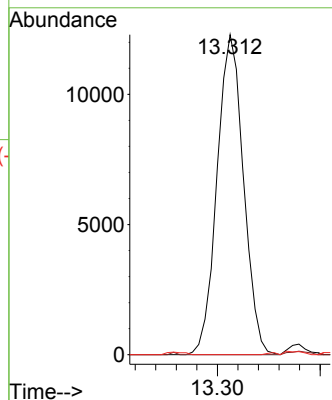
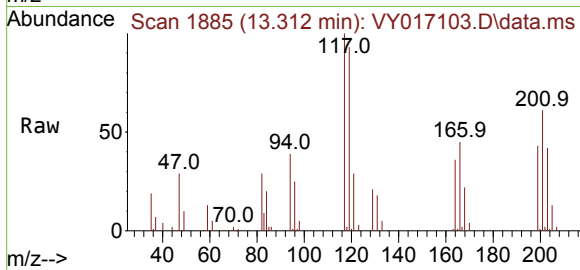
Tgt Ion:119 Resp: 21962

Ion Ratio Lower Upper

119 100

134 0.0 13.1 39.1#

91 0.0 11.7 35.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.409 ug/l

RT: 14.349 min Scan# 2055

Delta R.T. -0.018 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

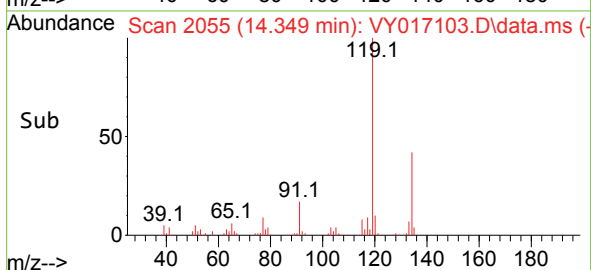
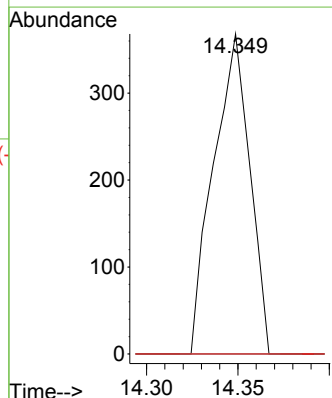
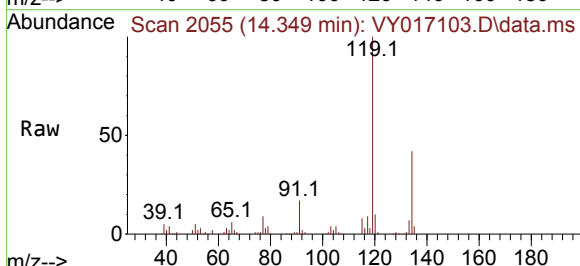
Tgt Ion: 75 Resp: 508

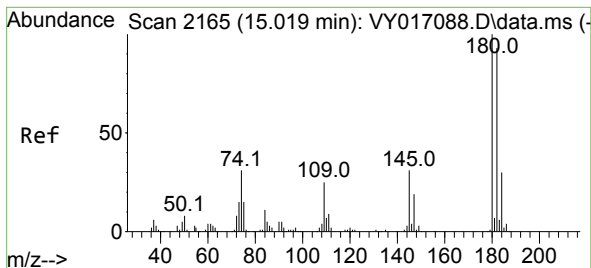
Ion Ratio Lower Upper

75 100

155 0.0 42.1 126.3#

157 0.0 55.8 167.4#





#93

1,2,4-Trichlorobenzene

Concen: 16.265 ug/l

RT: 15.196 min Scan# 2165

Delta R.T. 0.177 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

Instrument :

MSVOA_Y

ClientSampleId :

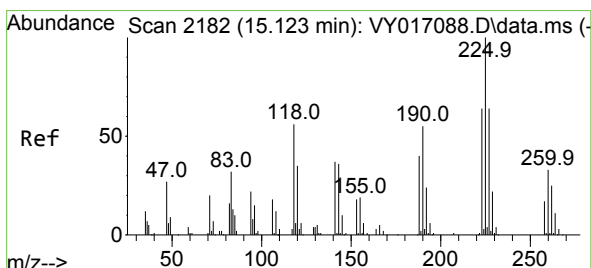
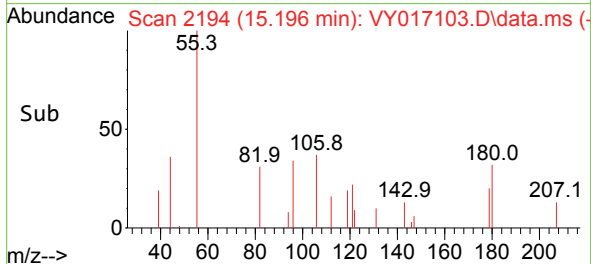
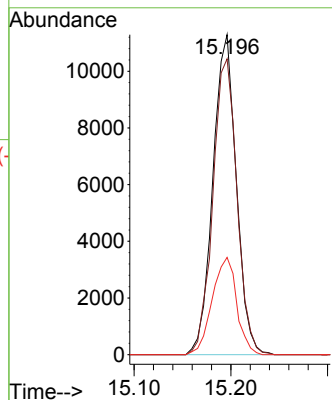
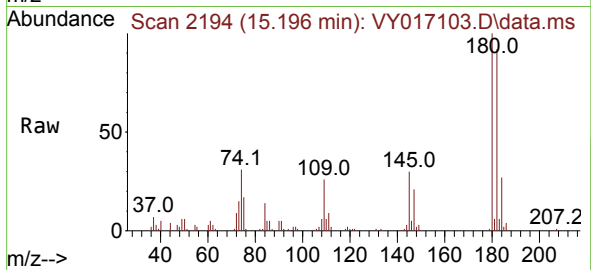
Tgt Ion:180 Resp: 18974

Ion Ratio Lower Upper

180 100

182 95.1 47.9 143.7

145 31.8 15.9 47.7



#94

Hexachlorobutadiene

Concen: 19.633 ug/l

RT: 14.867 min Scan# 2140

Delta R.T. -0.256 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

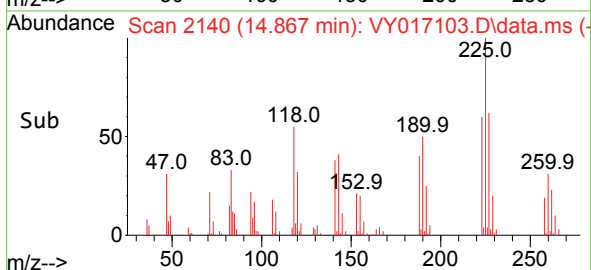
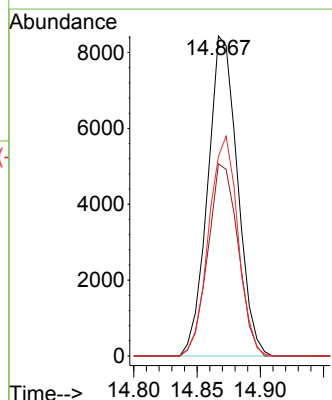
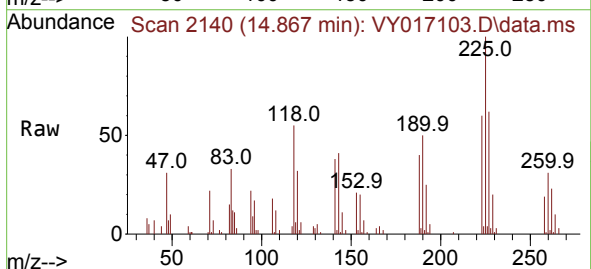
Tgt Ion:225 Resp: 13784

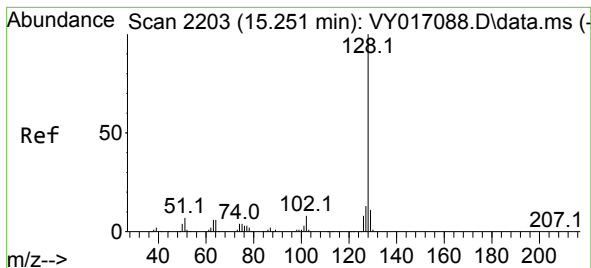
Ion Ratio Lower Upper

225 100

223 60.9 31.4 94.3

227 67.4 32.3 96.8





#95

Naphthalene

Concen: 16.903 ug/l

RT: 14.977 min Scan# 2158

Delta R.T. -0.268 min

Lab File: VY017103.D

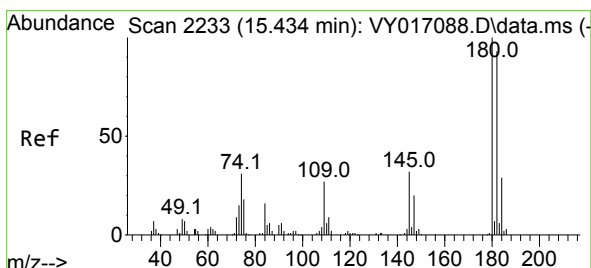
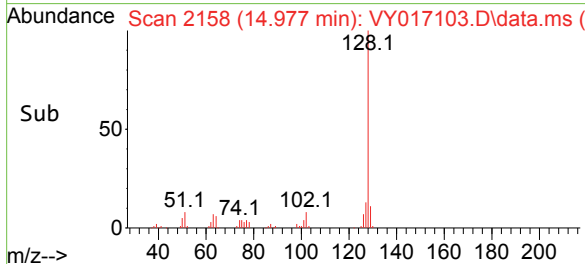
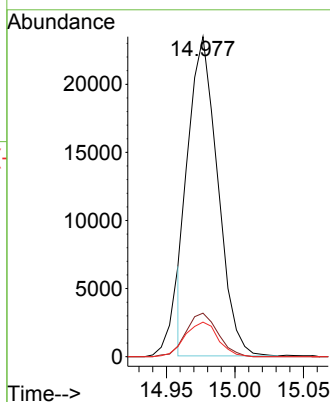
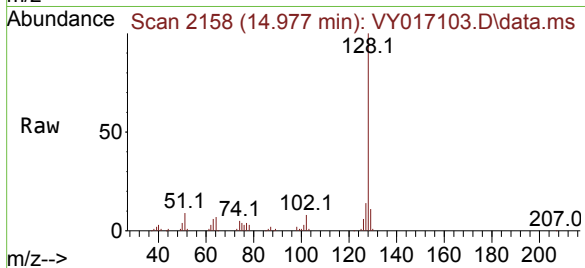
Acq: 25 Jan 2024 13:55

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:128	Resp:	34826
Ion Ratio	Lower	Upper
128	100	
127	13.8	10.2 15.4
129	11.1	8.6 12.8



#96

1,2,3-Trichlorobenzene

Concen: 19.550 ug/l

RT: 15.196 min Scan# 2194

Delta R.T. -0.238 min

Lab File: VY017103.D

Acq: 25 Jan 2024 13:55

Tgt Ion:180	Resp:	18973
Ion Ratio	Lower	Upper
180	100	
182	95.1	46.3 138.8
145	31.8	16.1 48.2

