

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030824\
 Data File : VY017623.D
 Acq On : 08 Mar 2024 16:22
 Operator : SY/MD
 Sample : P1720-01
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RT4196

Quant Time: Mar 08 22:24:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022324S.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 24 04:41:20 2024
 Response via : Initial Calibration

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

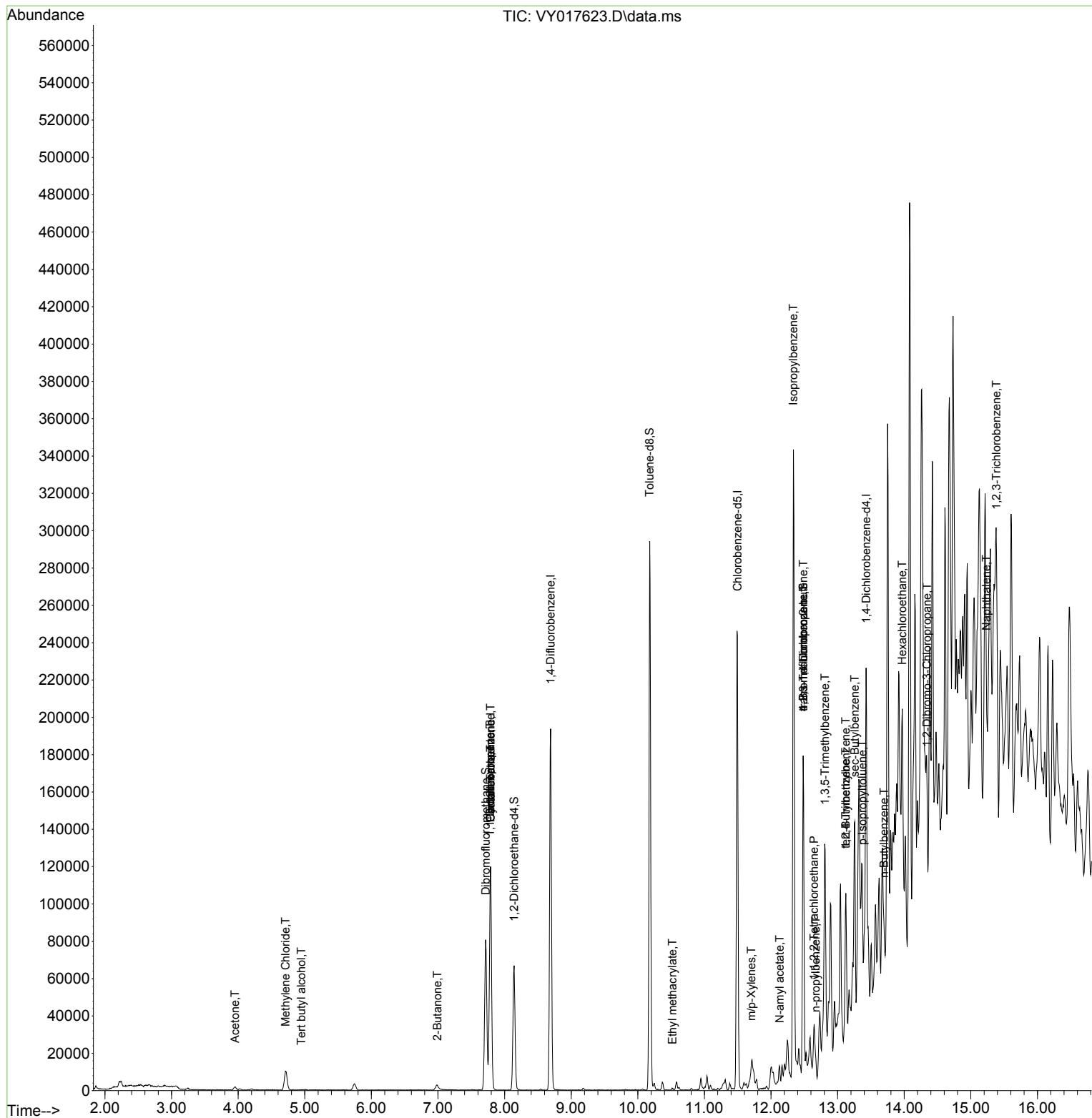
Internal Standards						
1) Pentafluorobenzene	7.789	168	96957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	174526	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	144665	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	43940	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	49240	53.586	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.180%			
35) Dibromofluoromethane	7.716	113	57348	47.155	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 94.320%			
50) Toluene-d8	10.179	98	194326	45.701	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 91.400%			
62) 4-Bromofluorobenzene	12.483	95	50144	37.524	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 75.040%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.948	59	331	4.241	ug/l #	88
16) Acetone	3.954	43	2955	16.580	ug/l #	83
20) Methylene Chloride	4.710	84	7967	2.393	ug/l	95
25) 2-Butanone	6.990	43	554	2.181	ug/l #	41
31) Cyclohexane	7.789	56	1947	1.302	ug/l #	8
36) 1,1-Dichloropropene	7.783	75	6989	4.259	ug/l #	47
38) Carbon Tetrachloride	7.789	117	8789	5.344	ug/l #	15
56) Ethyl methacrylate	10.520	69	132	2.645	ug/l #	29
68) m/p-Xylenes	11.703	106	2232	1.055	ug/l	83
73) Isopropylbenzene	12.337	105	16597	5.084	ug/l #	73
74) N-amyl acetate	12.129	43	1965	3.413	ug/l #	76
75) 1,1,2,2-Tetrachloroethane	12.648	83	2573	4.590	ug/l #	43
76) 1,2,3-Trichloropropane	12.483	75	25809	61.819	ug/l #	100
78) n-propylbenzene	12.672	91	6689	1.708	ug/l	99
80) 1,3,5-Trimethylbenzene	12.812	105	12110	4.630	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.483	75	25809	142.045	ug/l #	16
83) tert-Butylbenzene	13.123	119	4998	2.176	ug/l #	65
84) 1,2,4-Trimethylbenzene	13.123	105	38076	14.747	ug/l	100
85) sec-Butylbenzene	13.257	105	63267	18.018	ug/l	97
86) p-Isopropyltoluene	13.373	119	18003	6.263	ug/l	99
89) n-Butylbenzene	13.696	91	15069	5.746	ug/l #	68
90) Hexachloroethane	13.971	117	2987	5.184	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.342	75	280	3.553	ug/l #	1
95) Naphthalene	15.233	128	12528	12.320	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.385	180	2244	3.690	ug/l #	1

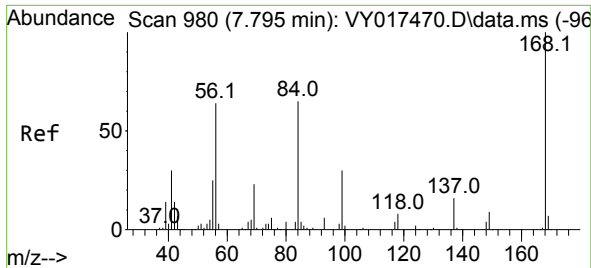
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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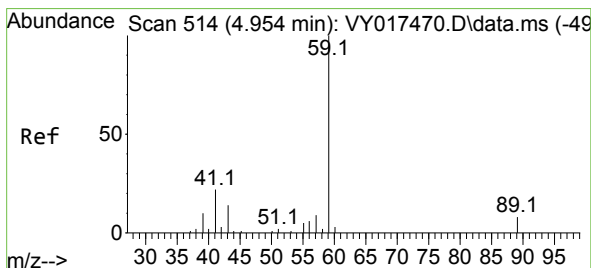
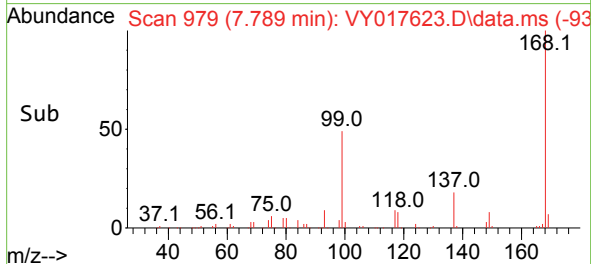
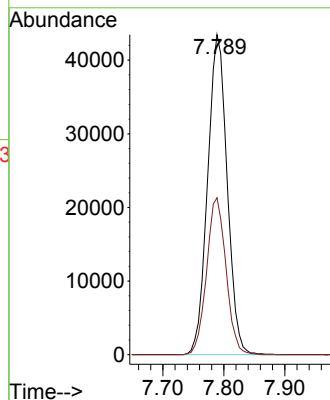
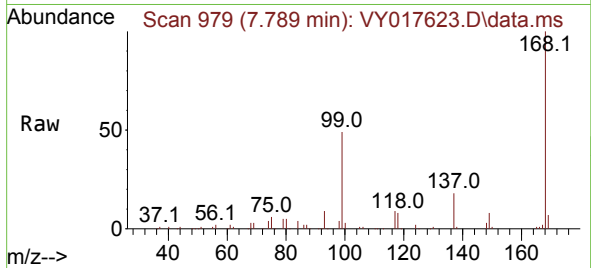




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

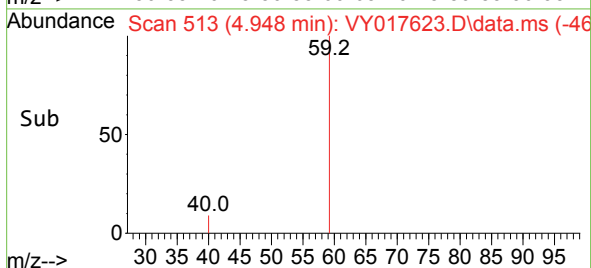
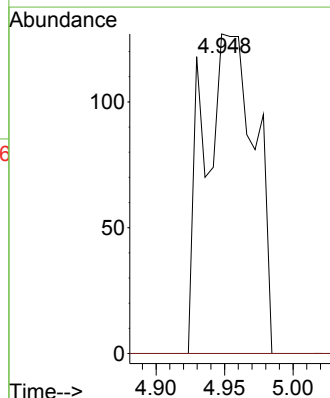
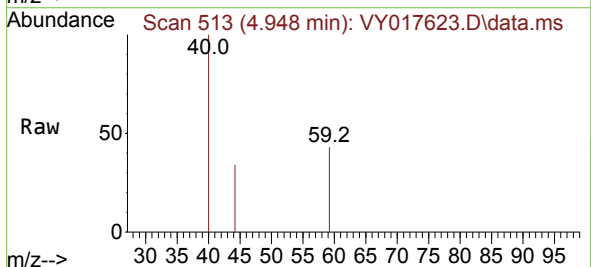
Instrument :
MSVOA_Y
ClientSampleId :
RT4196

Tgt Ion:168 Resp: 96957
Ion Ratio Lower Upper
168 100
99 49.1 39.1 58.7



#11
Tert butyl alcohol
Concen: 4.241 ug/l
RT: 4.948 min Scan# 513
Delta R.T. -0.006 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

Tgt Ion: 59 Resp: 331
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#

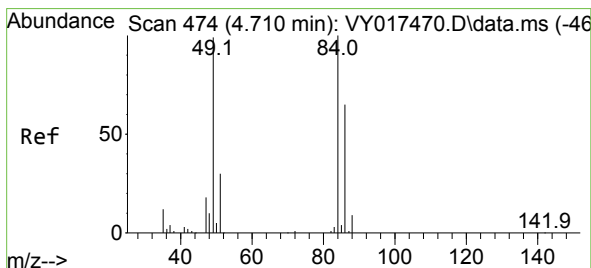
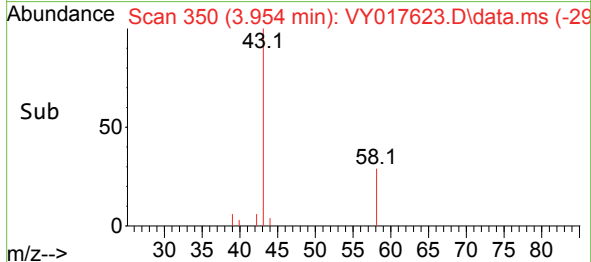
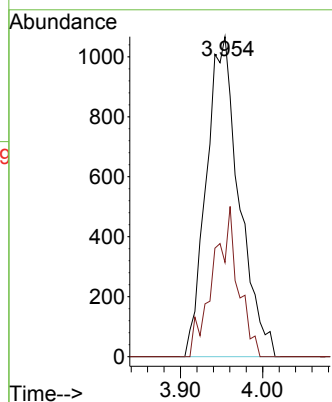
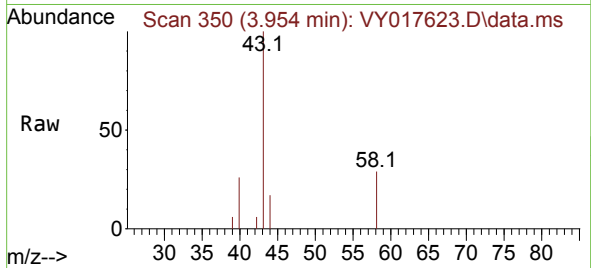




#16
Acetone
Concen: 16.580 ug/l
RT: 3.954 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

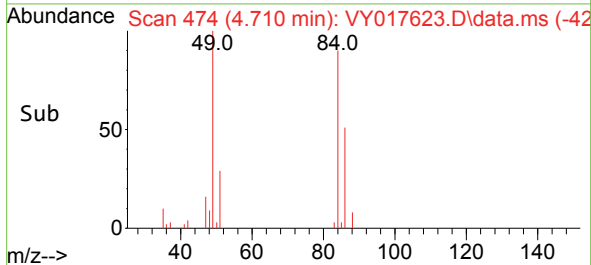
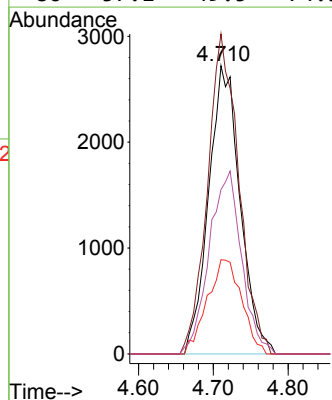
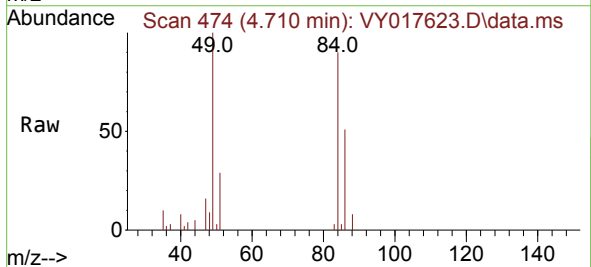
Instrument :
MSVOA_Y
ClientSampleId :
RT4196

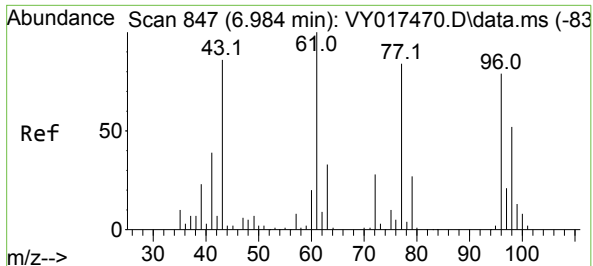
Tgt Ion: 43 Resp: 2955
Ion Ratio Lower Upper
43 100
58 29.4 31.7 47.5#



#20
Methylene Chloride
Concen: 2.393 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

Tgt Ion: 84 Resp: 7967
Ion Ratio Lower Upper
84 100
49 111.1 84.4 126.6
51 32.7 26.0 39.0
86 57.1 49.5 74.3





#25

2-Butanone

Concen: 2.181 ug/l

RT: 6.990 min Scan# 847

Delta R.T. 0.006 min

Lab File: VY017623.D

Acq: 08 Mar 2024 16:22

Instrument :

MSVOA_Y

ClientSampleId :

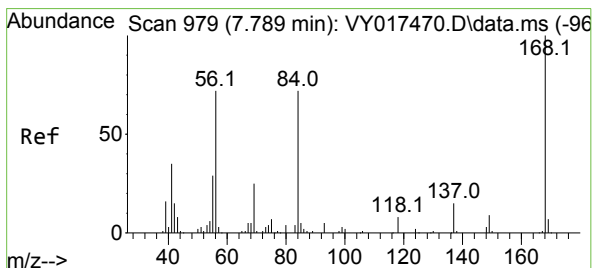
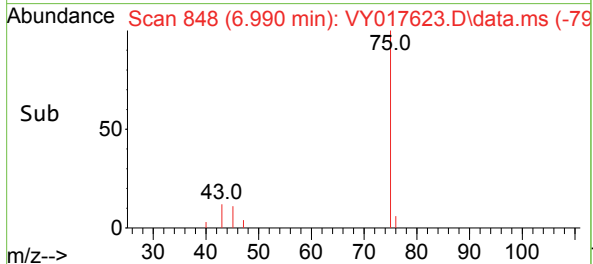
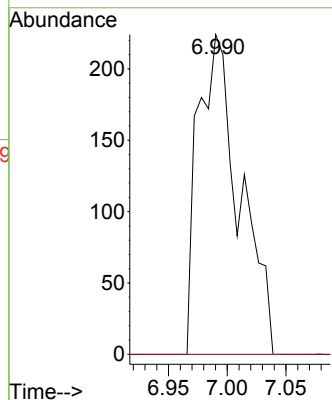
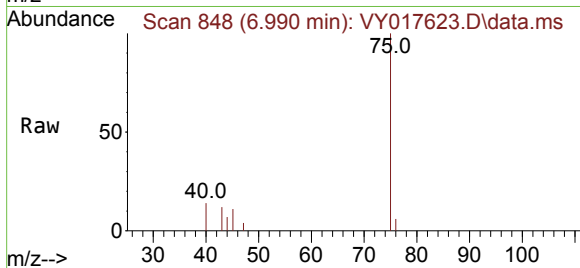
RT4196

Tgt Ion: 43 Resp: 554

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#



#31

Cyclohexane

Concen: 1.302 ug/l

RT: 7.789 min Scan# 979

Delta R.T. 0.000 min

Lab File: VY017623.D

Acq: 08 Mar 2024 16:22

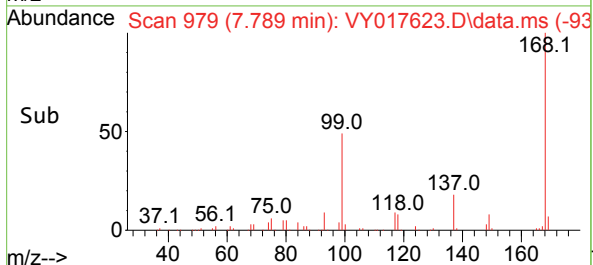
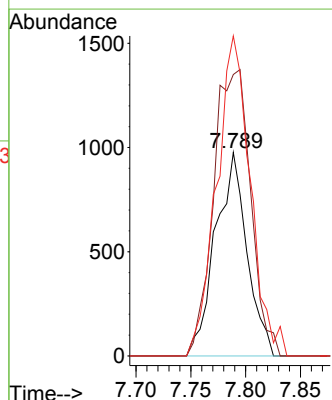
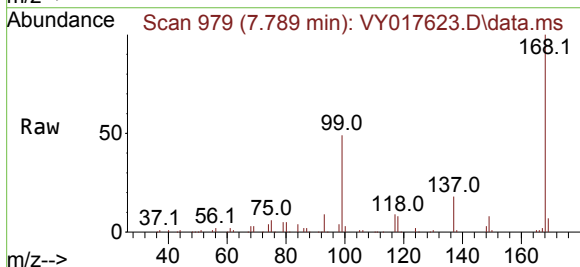
Tgt Ion: 56 Resp: 1947

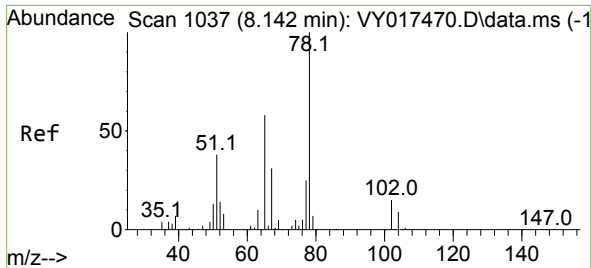
Ion Ratio Lower Upper

56 100

69 138.3 28.7 43.1#

84 157.3 77.7 116.5#

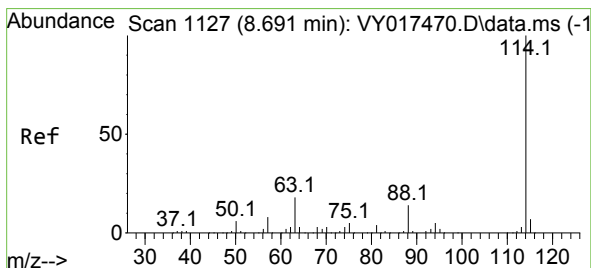
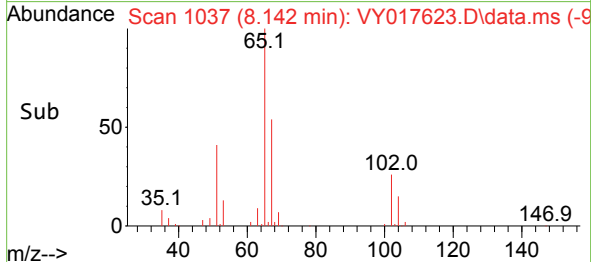
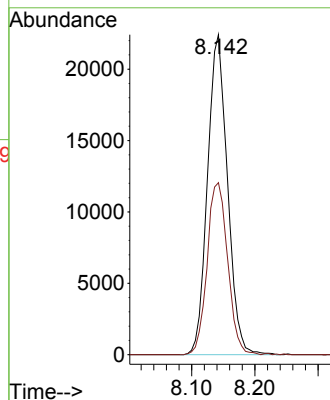
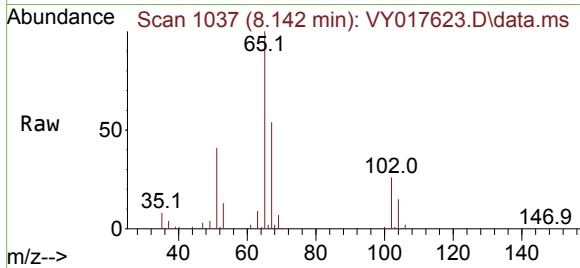




#33
 1,2-Dichloroethane-d4
 Concen: 53.586 ug/l
 RT: 8.142 min Scan# 1037
 Delta R.T. 0.000 min
 Lab File: VY017623.D
 Acq: 08 Mar 2024 16:22

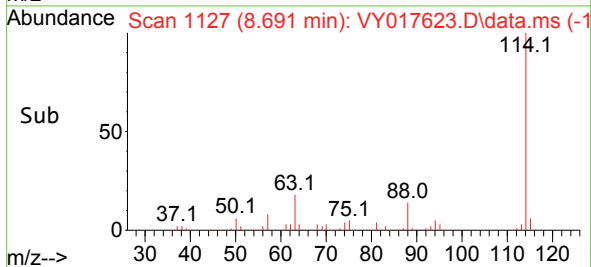
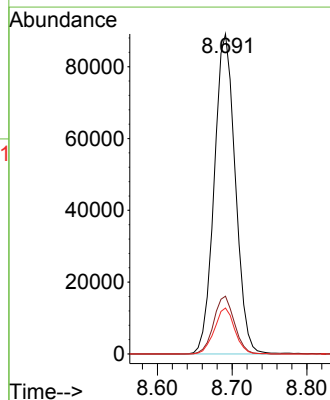
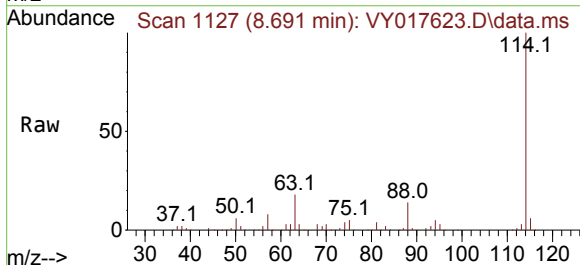
Instrument :
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 ClientSampleId :
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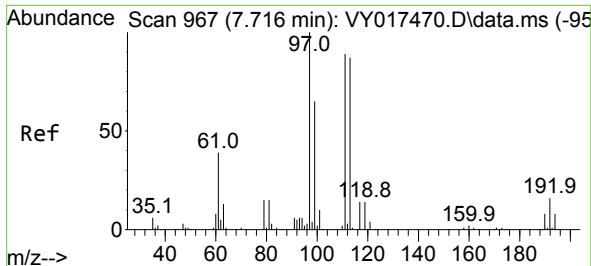
Tgt Ion: 65 Resp: 49240
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.691 min Scan# 1127
 Delta R.T. 0.000 min
 Lab File: VY017623.D
 Acq: 08 Mar 2024 16:22

Tgt Ion: 114 Resp: 174526
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 35.0
 88 14.4 0.0 27.2

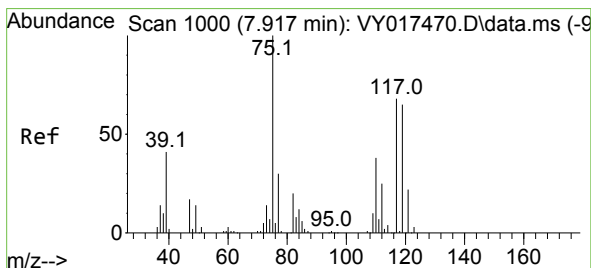
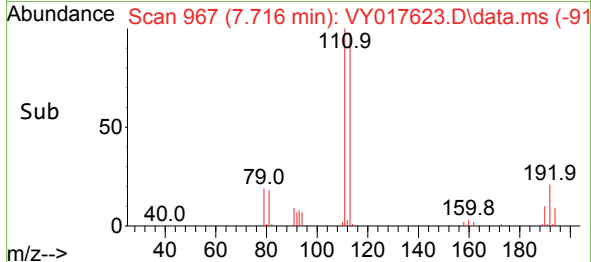
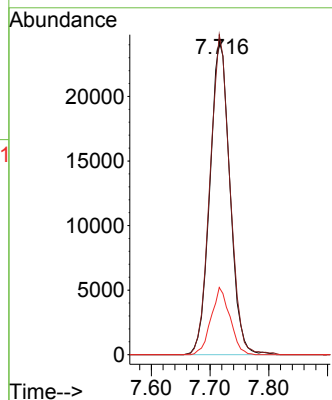
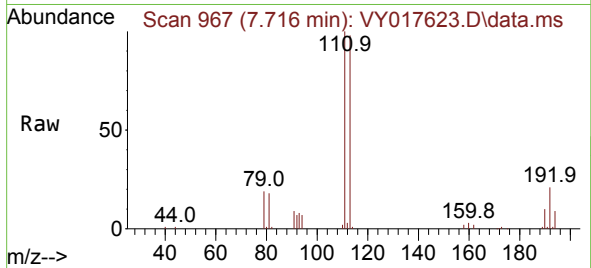




#35
Dibromofluoromethane
Concen: 47.155 ug/l
RT: 7.716 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

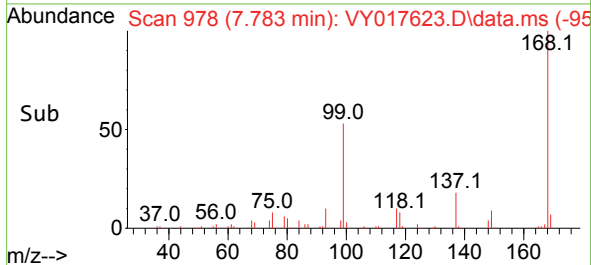
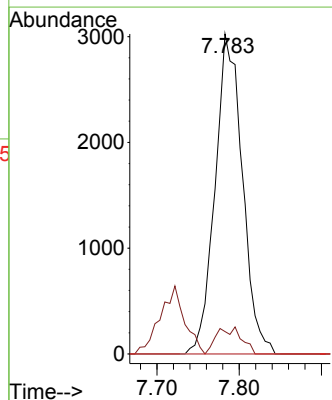
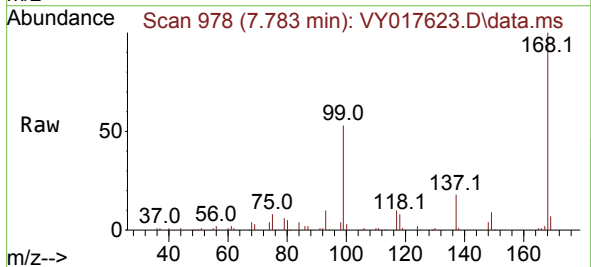
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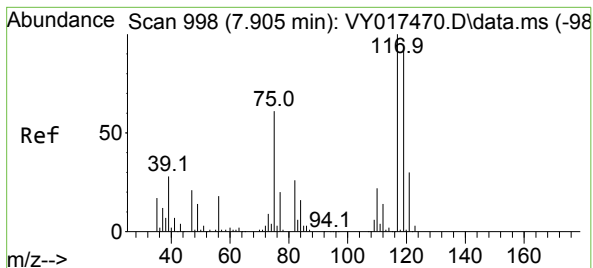
Tgt Ion:113 Resp: 57348
Ion Ratio Lower Upper
113 100
111 101.3 82.2 123.4
192 20.2 15.9 23.9



#36
1,1-Dichloropropene
Concen: 4.259 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.134 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

Tgt Ion: 75 Resp: 6989
Ion Ratio Lower Upper
75 100
110 7.6 19.0 57.0#
77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 5.344 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.116 min

Lab File: VY017623.D

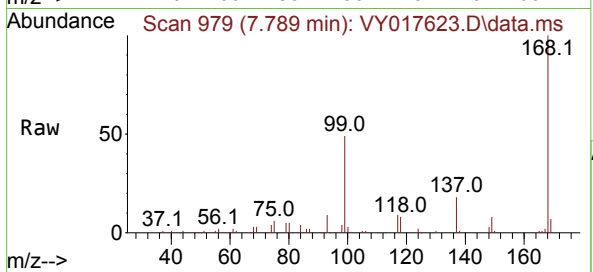
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Instrument :

MSVOA_Y

ClientSampleId :

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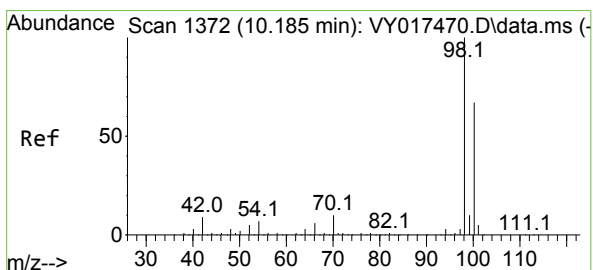
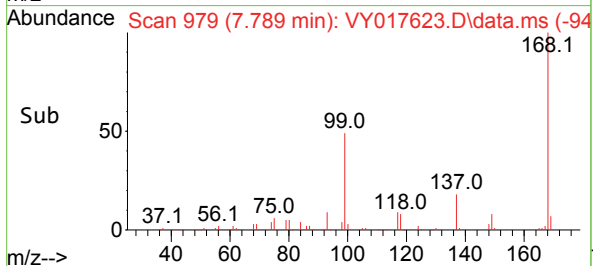
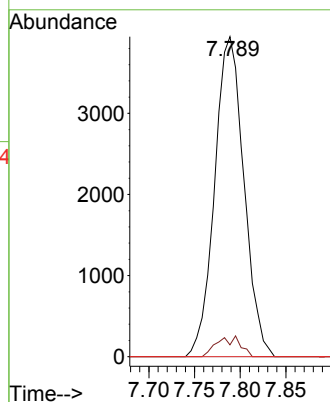
Tgt Ion:117 Resp: 8789

Ion Ratio Lower Upper

117 100

119 3.7 75.8 113.6#

121 0.0 24.0 36.0#



#50

Toluene-d8

Concen: 45.701 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.006 min

Lab File: VY017623.D

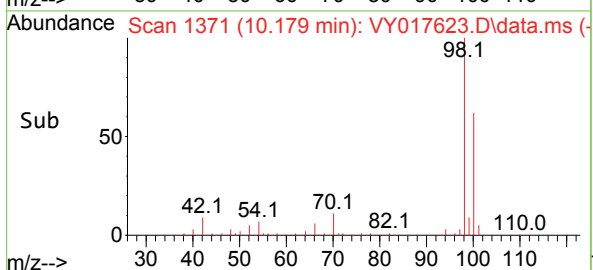
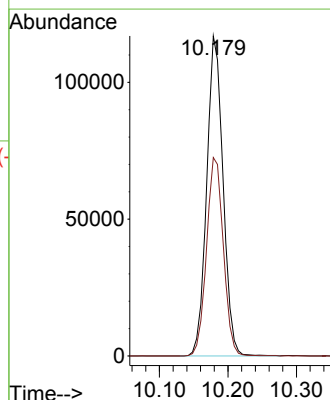
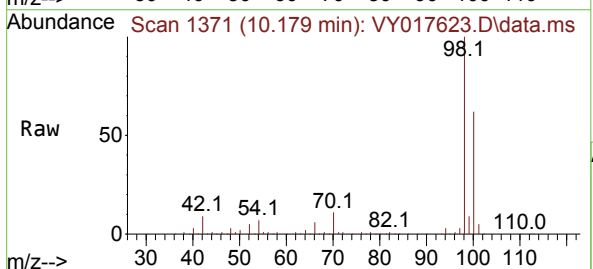
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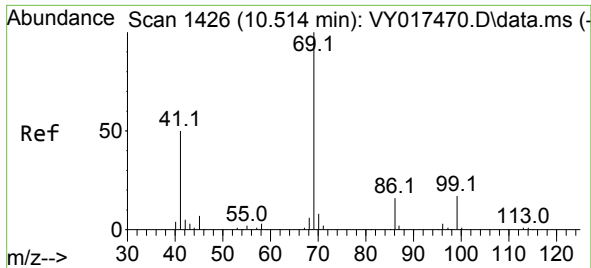
Tgt Ion: 98 Resp: 194326

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0

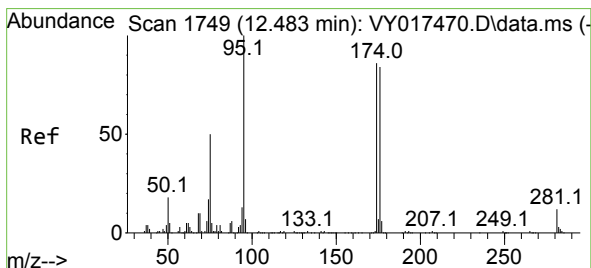
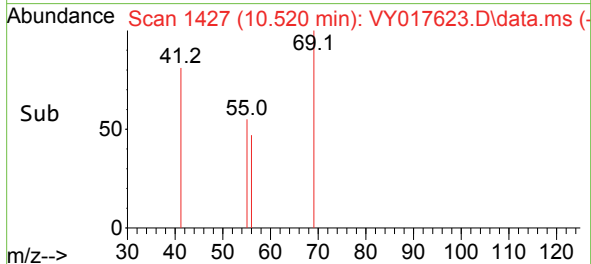
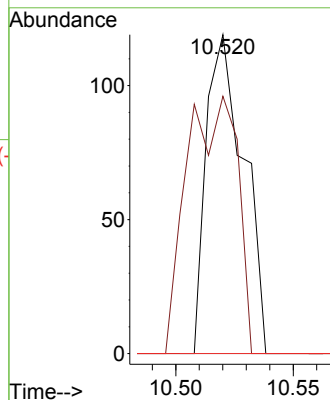
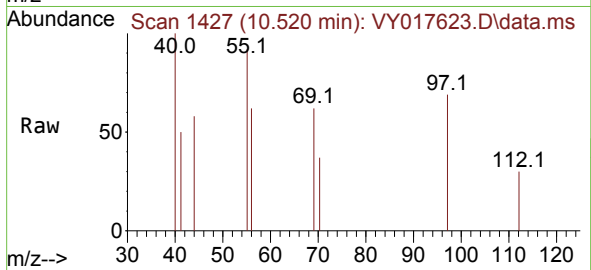




#56
Ethyl methacrylate
Concen: 2.645 ug/l
RT: 10.520 min Scan# 1426
Delta R.T. 0.006 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

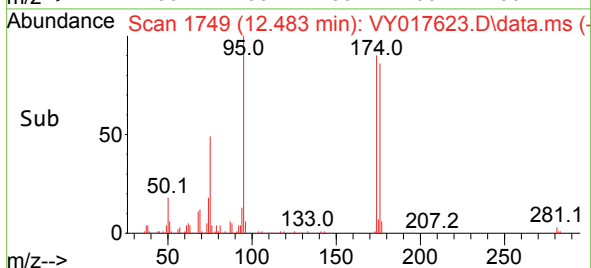
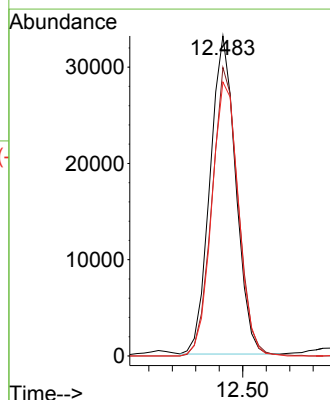
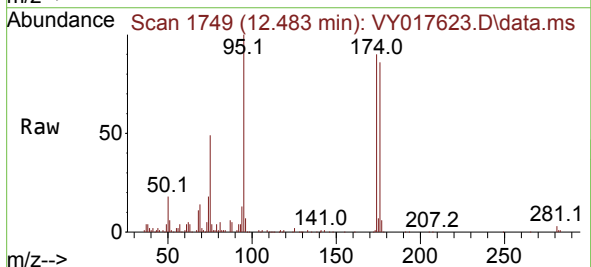
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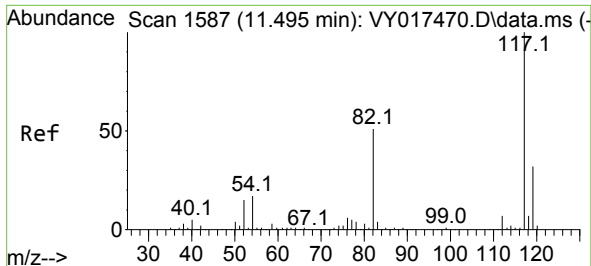
Tgt Ion: 69 Resp: 132
Ion Ratio Lower Upper
69 100
41 109.8 42.3 63.5#
39 0.0 22.9 34.3#



#62
4-Bromofluorobenzene
Concen: 37.524 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

Tgt Ion: 95 Resp: 50144
Ion Ratio Lower Upper
95 100
174 92.4 0.0 175.6
176 89.9 0.0 171.4

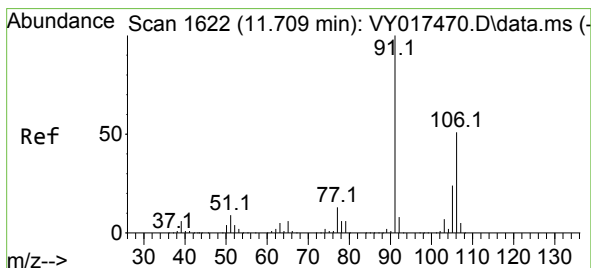
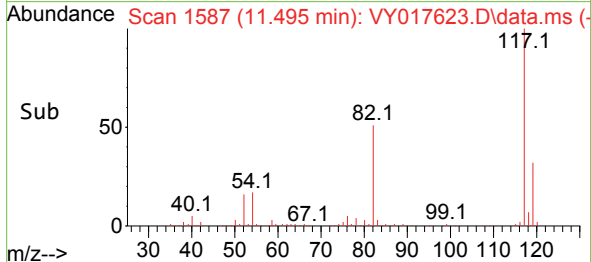
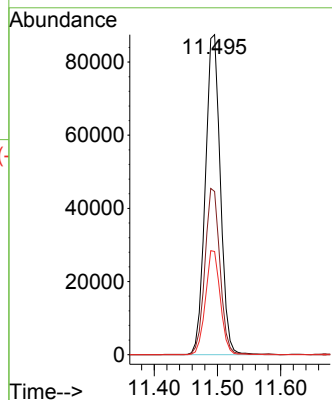
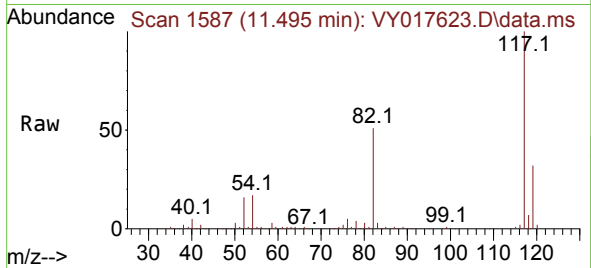




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

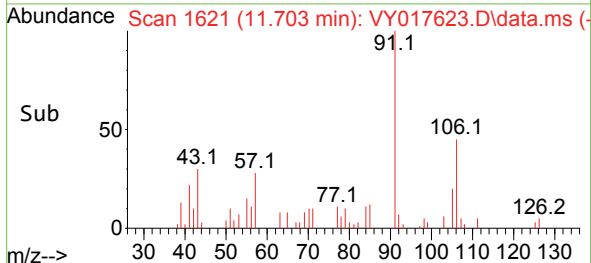
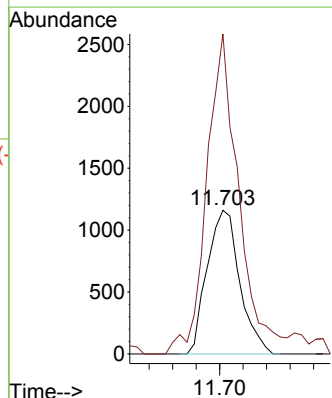
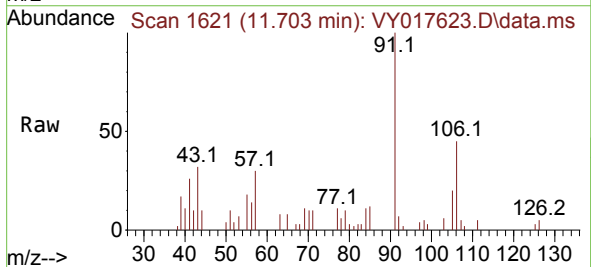
Instrument :
MSVOA_Y
ClientSampleId :
RT4196

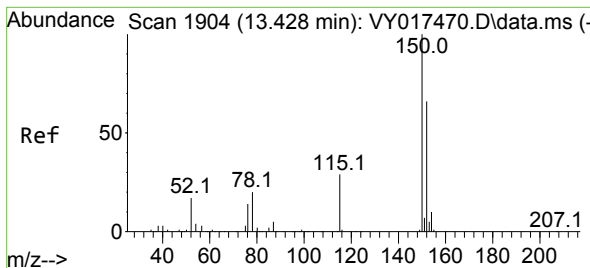
Tgt Ion:117 Resp: 144665
Ion Ratio Lower Upper
117 100
82 51.0 42.4 63.6
119 32.3 25.9 38.9



#68
m/p-Xylenes
Concen: 1.055 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. -0.006 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

Tgt Ion:106 Resp: 2232
Ion Ratio Lower Upper
106 100
91 219.6 156.0 234.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY017623.D

Acq: 08 Mar 2024 16:22

Instrument :

MSVOA_Y

ClientSampleId :

RT4196

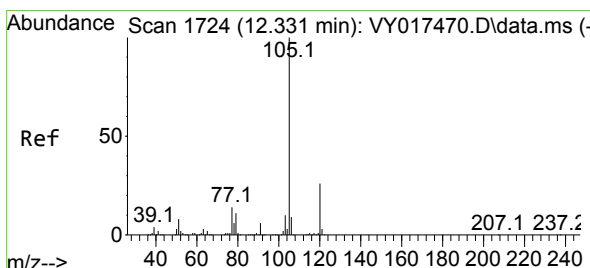
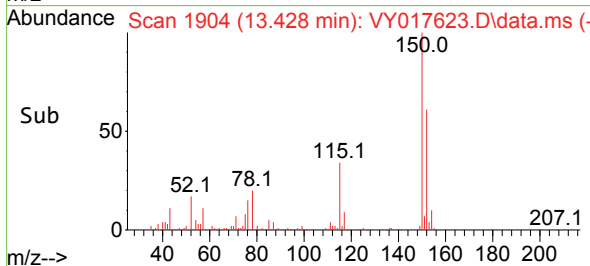
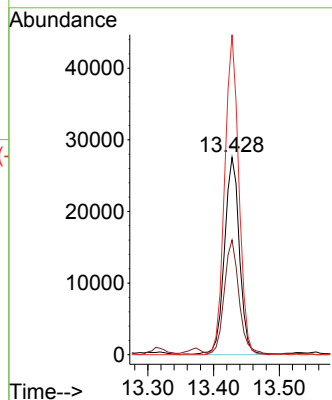
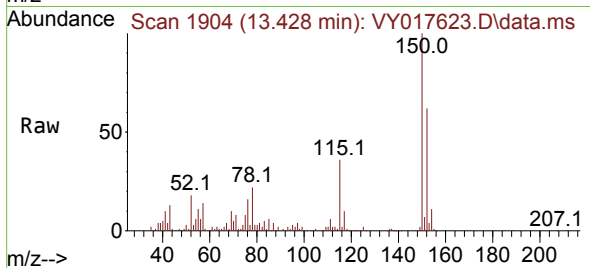
Tgt Ion:152 Resp: 43940

Ion Ratio Lower Upper

152 100

115 57.3 28.2 84.7

150 152.5 0.0 345.6



#73

Isopropylbenzene

Concen: 5.084 ug/l

RT: 12.337 min Scan# 1725

Delta R.T. 0.006 min

Lab File: VY017623.D

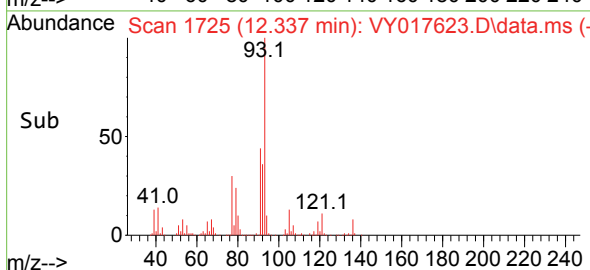
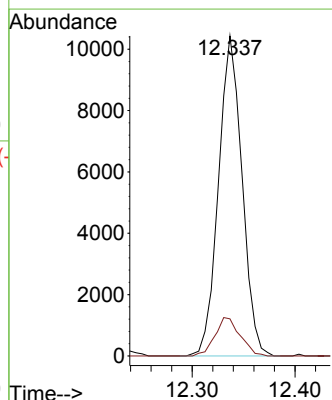
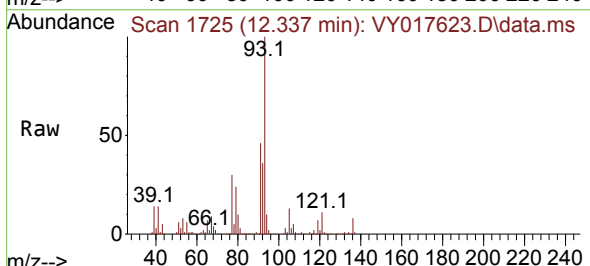
Acq: 08 Mar 2024 16:22

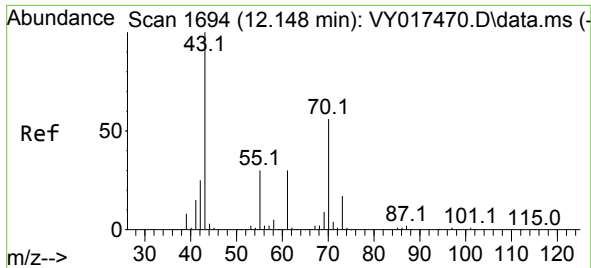
Tgt Ion:105 Resp: 16597

Ion Ratio Lower Upper

105 100

120 12.8 13.4 40.1#

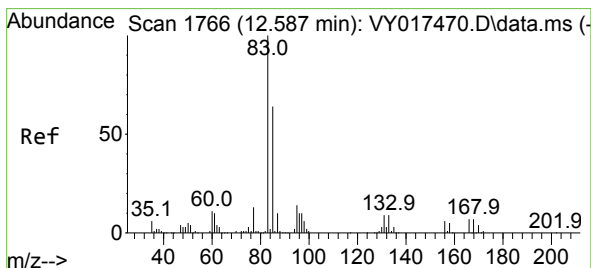
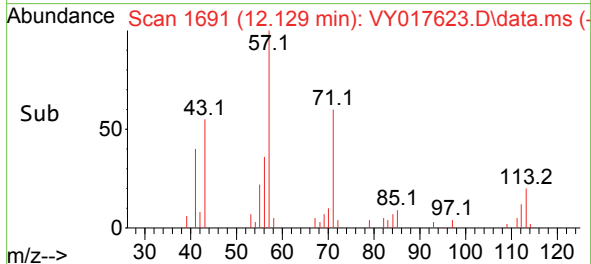
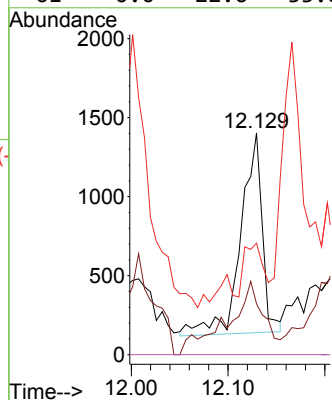
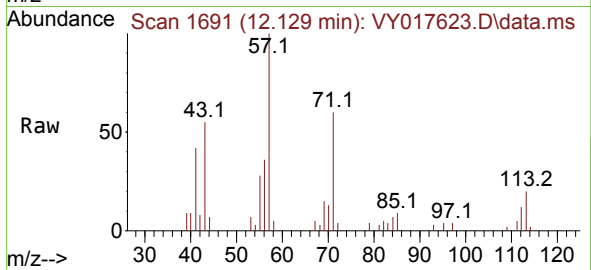




#74
N-amy1 acetate
Concen: 3.413 ug/l
RT: 12.129 min Scan# 1
Delta R.T. -0.018 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

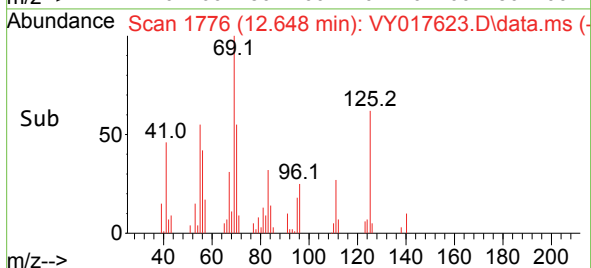
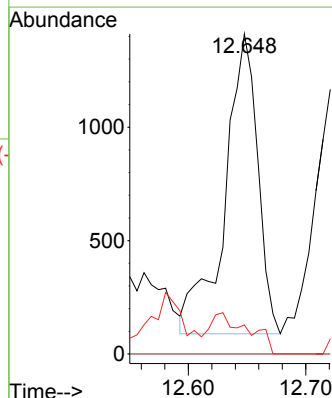
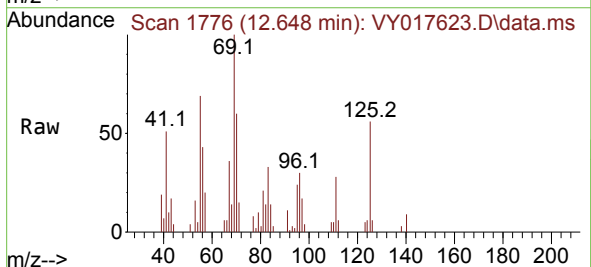
Instrument :
MSVOA_Y
ClientSampleId :
RT4196

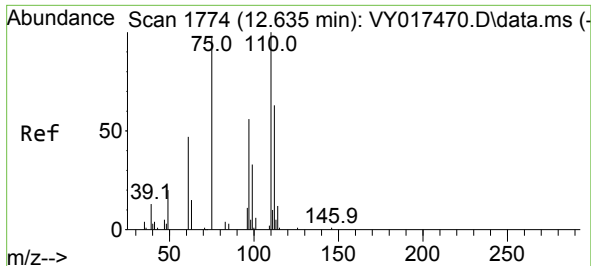
Tgt Ion: 43	Resp: 1965
Ion Ratio	Lower Upper
43	100
70	62.5 41.4 62.2#
55	23.3 23.3 34.9
61	0.0 22.6 33.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 4.590 ug/l
RT: 12.648 min Scan# 1776
Delta R.T. 0.061 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

Tgt Ion: 83	Resp: 2573
Ion Ratio	Lower Upper
83	100
131	0.0 5.0 14.9#
85	15.9 32.0 96.0#

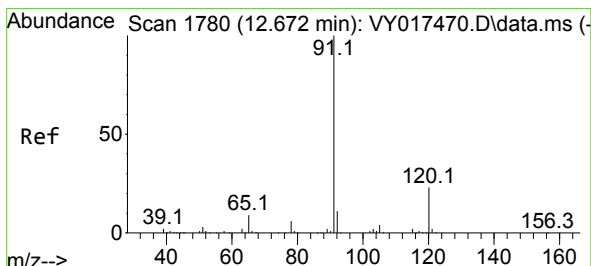
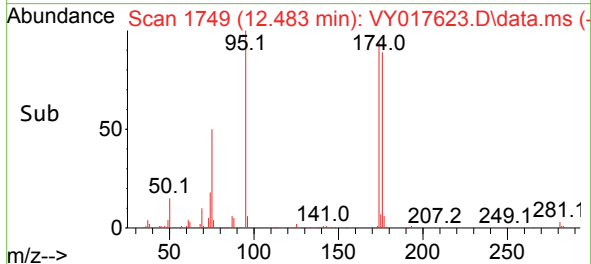
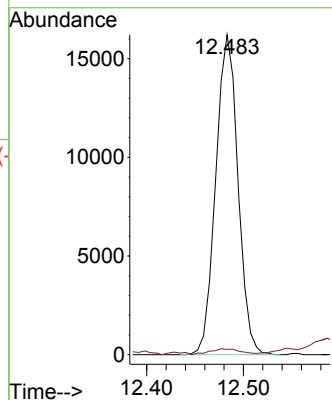
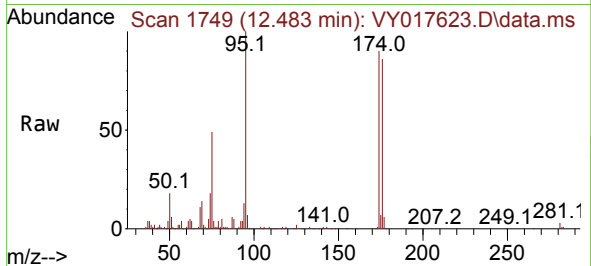




#76
1,2,3-Trichloropropane
Concen: 61.819 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.152 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

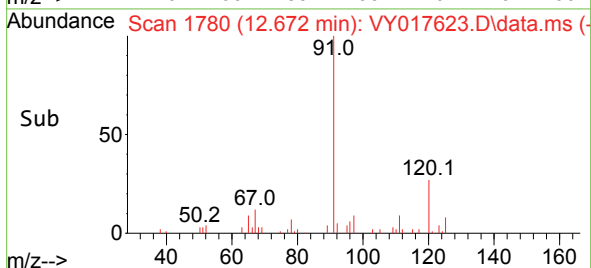
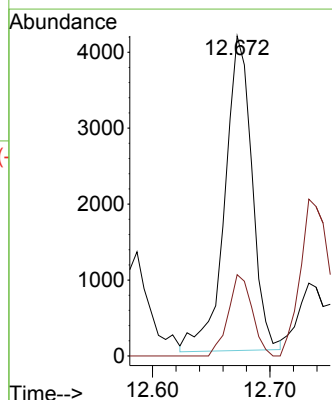
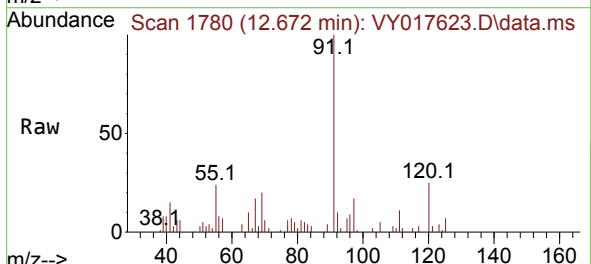
Instrument :
MSVOA_Y
ClientSampleId :
RT4196

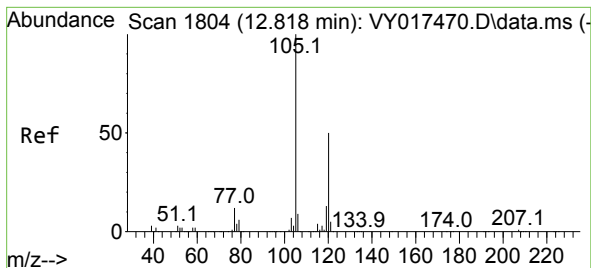
Tgt Ion: 75 Resp: 25809
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 1.708 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

Tgt Ion: 91 Resp: 6689
Ion Ratio Lower Upper
91 100
120 22.5 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 4.630 ug/l

RT: 12.812 min Scan# 1749

Delta R.T. -0.006 min

Lab File: VY017623.D

Acq: 08 Mar 2024 16:22

Instrument :

MSVOA_Y

ClientSampleId :

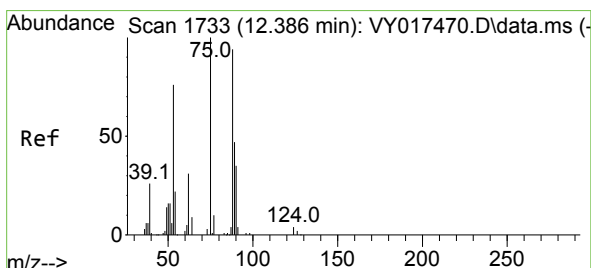
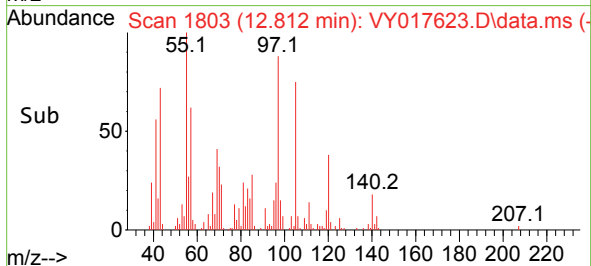
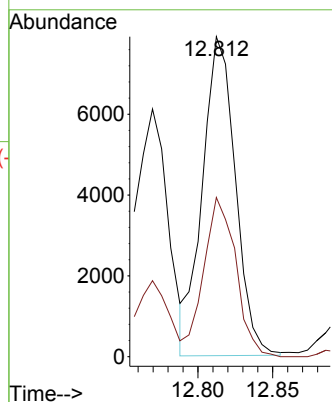
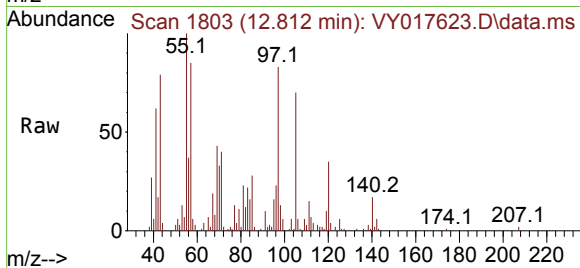
RT4196

Tgt Ion:105 Resp: 12110

Ion Ratio Lower Upper

105 100

120 48.7 25.1 75.2



#81

trans-1,4-Dichloro-2-butene

Concen: 142.045 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.098 min

Lab File: VY017623.D

Acq: 08 Mar 2024 16:22

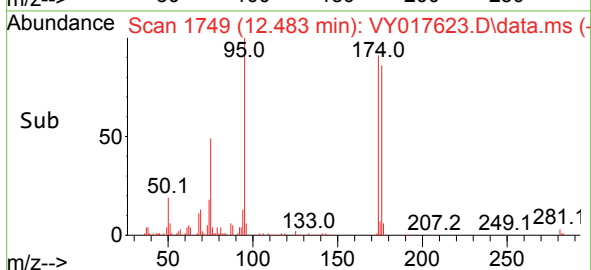
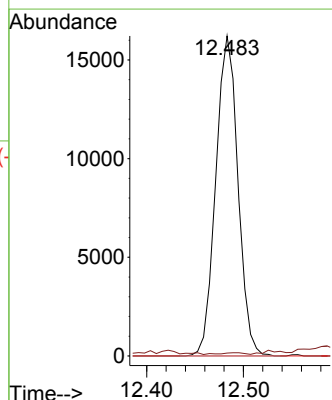
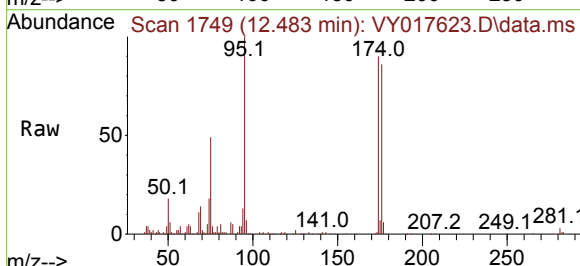
Tgt Ion: 75 Resp: 25809

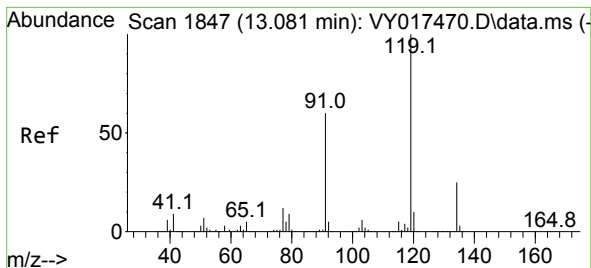
Ion Ratio Lower Upper

75 100

53 0.0 66.8 100.2#

89 0.0 35.8 53.6#





#83

tert-Butylbenzene

Concen: 2.176 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.043 min

Lab File: VY017623.D

Acq: 08 Mar 2024 16:22

Instrument :

MSVOA_Y

ClientSampleId :

RT4196

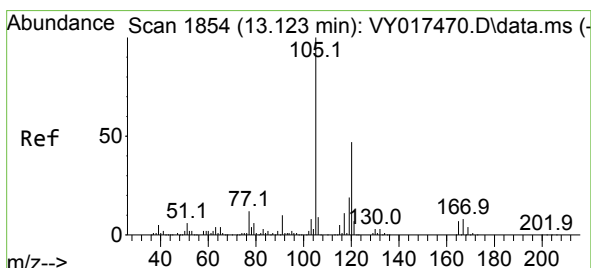
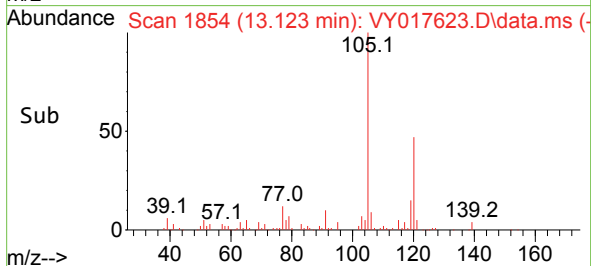
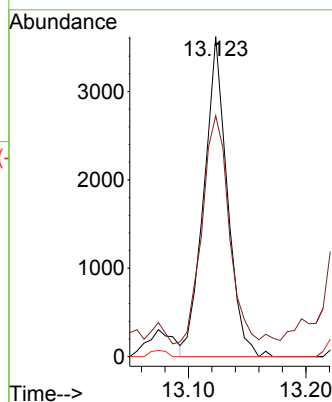
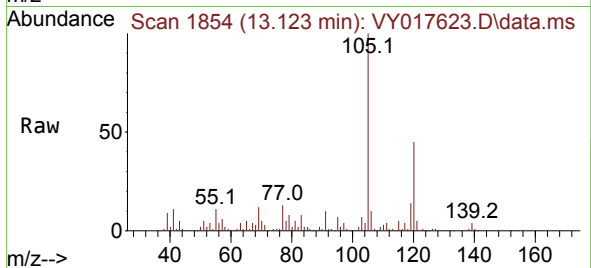
Tgt Ion:119 Resp: 4998

Ion Ratio Lower Upper

119 100

91 83.6 31.3 93.8

134 0.0 13.4 40.1#



#84

1,2,4-Trimethylbenzene

Concen: 14.747 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.000 min

Lab File: VY017623.D

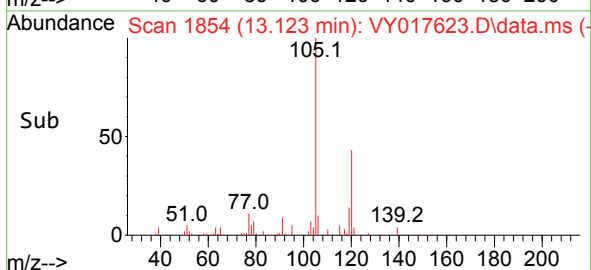
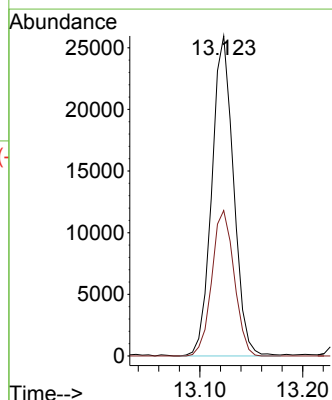
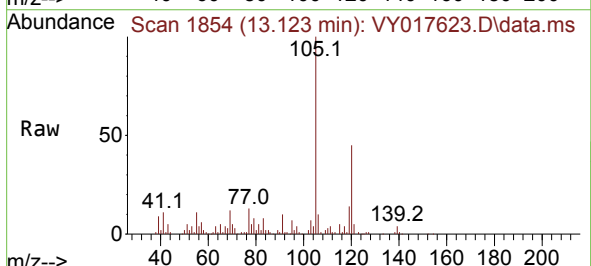
Acq: 08 Mar 2024 16:22

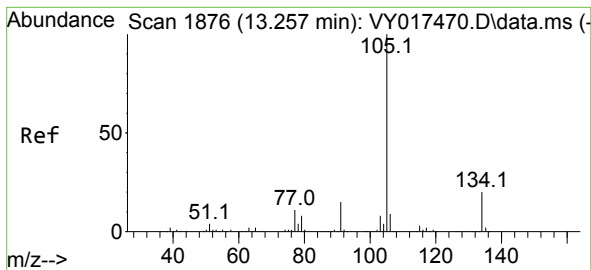
Tgt Ion:105 Resp: 38076

Ion Ratio Lower Upper

105 100

120 46.6 23.2 69.6





#85

sec-Butylbenzene

Concen: 18.018 ug/l

RT: 13.257 min Scan# 1876

Delta R.T. 0.000 min

Lab File: VY017623.D

Acq: 08 Mar 2024 16:22

Instrument :

MSVOA_Y

ClientSampleId :

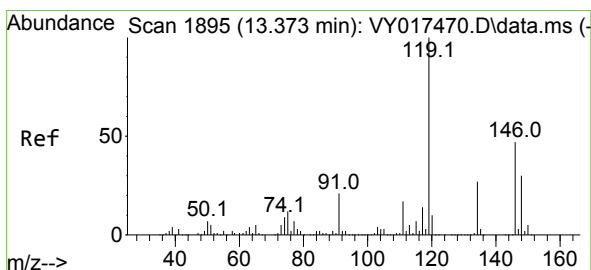
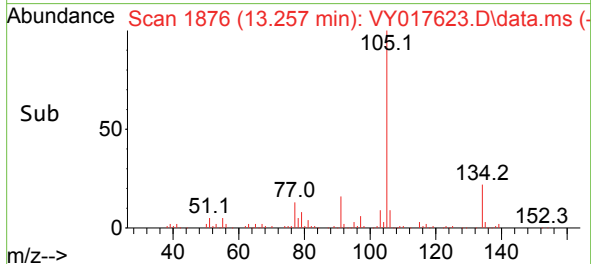
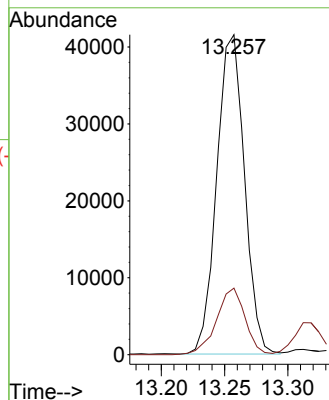
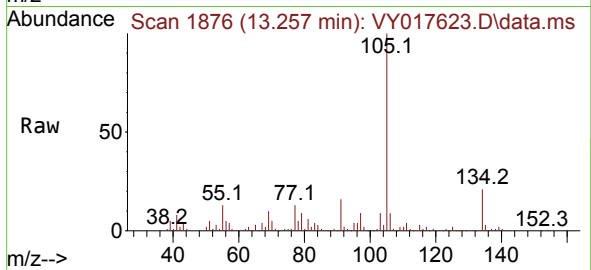
RT4196

Tgt Ion:105 Resp: 63267

Ion Ratio Lower Upper

105 100

134 21.5 10.1 30.1



#86

p-Isopropyltoluene

Concen: 6.263 ug/l

RT: 13.373 min Scan# 1895

Delta R.T. 0.000 min

Lab File: VY017623.D

Acq: 08 Mar 2024 16:22

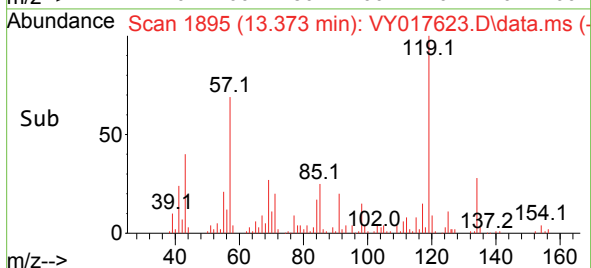
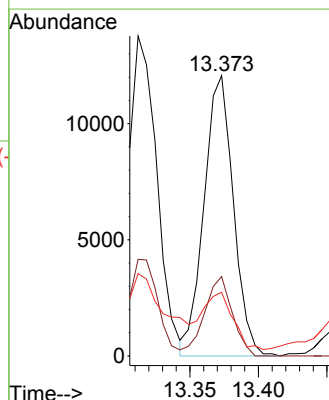
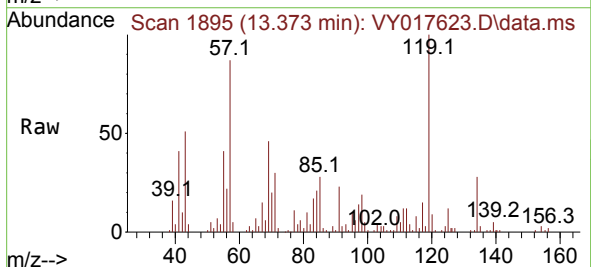
Tgt Ion:119 Resp: 18003

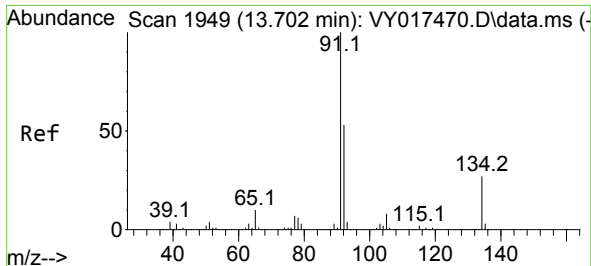
Ion Ratio Lower Upper

119 100

134 26.8 13.1 39.3

91 21.5 10.7 32.1





#89

n-Butylbenzene

Concen: 5.746 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. -0.006 min

Lab File: VY017623.D

Acq: 08 Mar 2024 16:22

Instrument :

MSVOA_Y

ClientSampleId :

RT4196

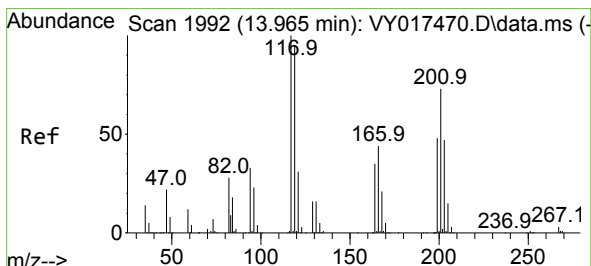
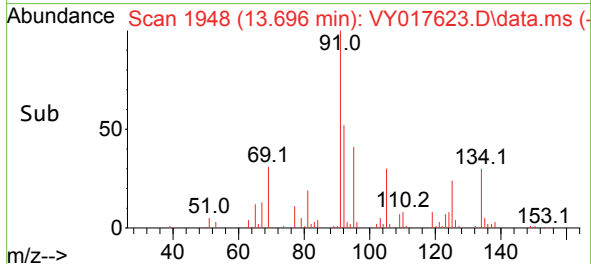
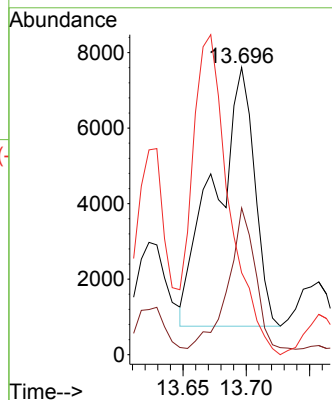
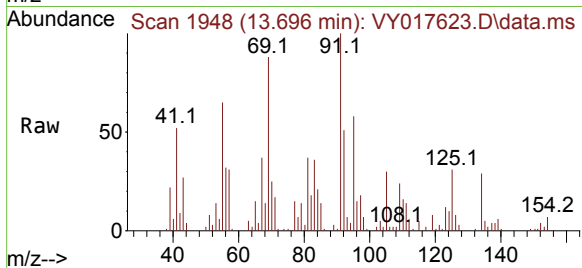
Tgt Ion: 91 Resp: 15069

Ion Ratio Lower Upper

91 100

92 36.9 26.6 79.7

134 0.0 12.9 38.7#



#90

Hexachloroethane

Concen: 5.184 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.006 min

Lab File: VY017623.D

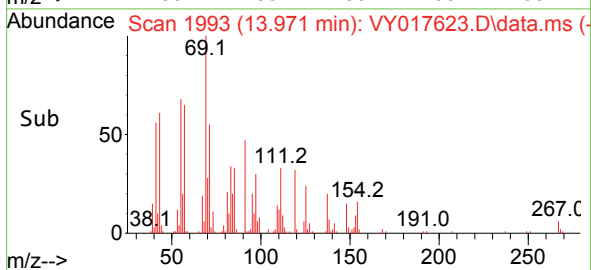
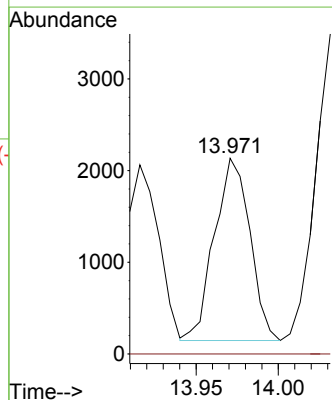
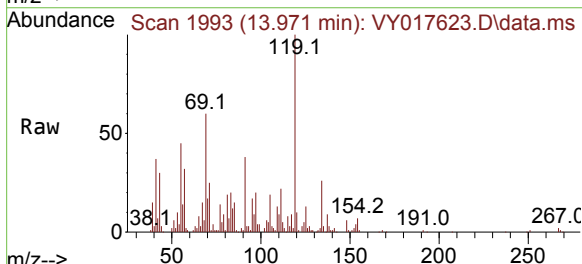
Acq: 08 Mar 2024 16:22

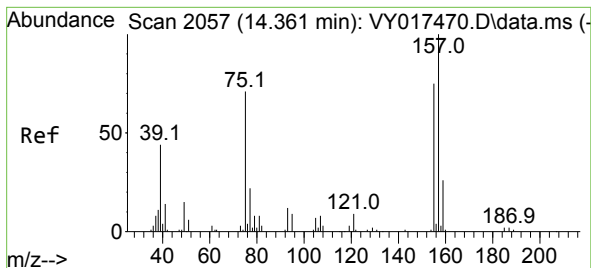
Tgt Ion: 117 Resp: 2987

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#

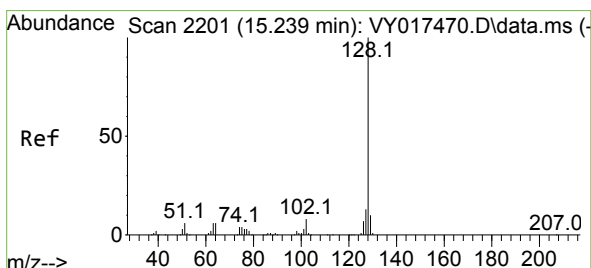
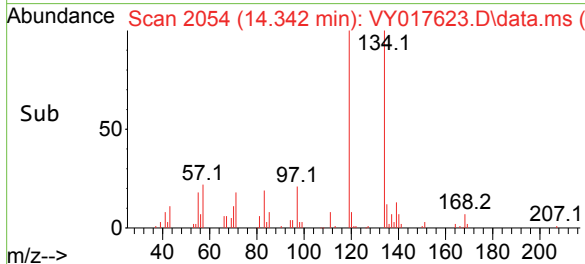
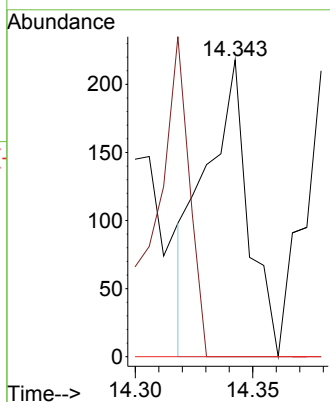
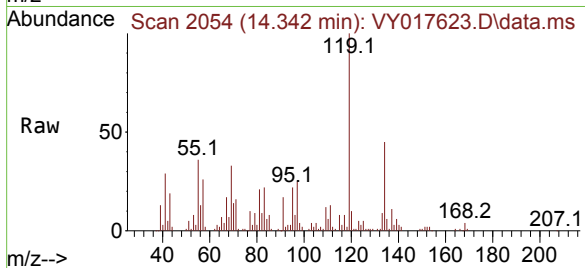




#92
1,2-Dibromo-3-Chloropropane
Concen: 3.553 ug/l
RT: 14.342 min Scan# 2054
Delta R.T. -0.018 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

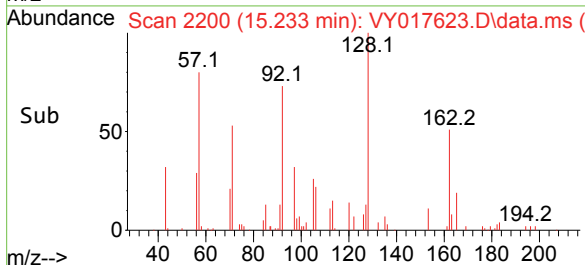
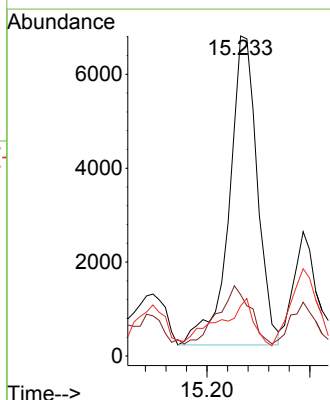
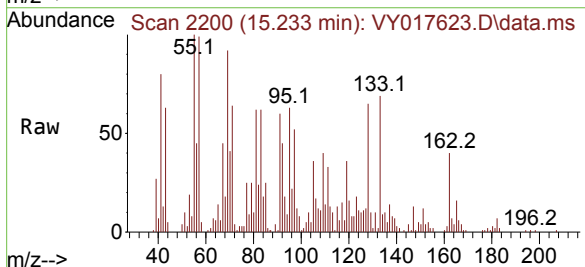
Instrument :
MSVOA_Y
ClientSampleId :
RT4196

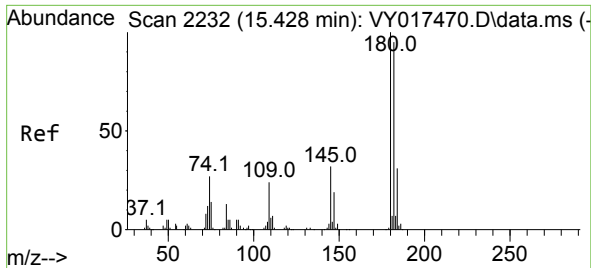
Tgt Ion: 75 Resp: 280
Ion Ratio Lower Upper
75 100
155 0.0 48.6 145.8#
157 0.0 62.7 188.2#



#95
Naphthalene
Concen: 12.320 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.006 min
Lab File: VY017623.D
Acq: 08 Mar 2024 16:22

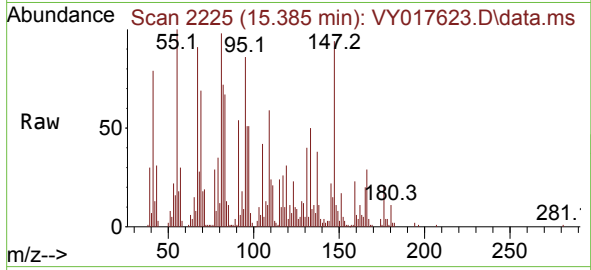
Tgt Ion:128 Resp: 12528
Ion Ratio Lower Upper
128 100
127 21.4 10.6 16.0#
129 18.5 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.690 ug/l
 RT: 15.385 min Scan# 21
 Delta R.T. -0.043 min
 Lab File: VY017623.D
 Acq: 08 Mar 2024 16:22

Instrument :
 MSVOA_Y
 ClientSampleId :
 RT4196



Tgt Ion:	180	Resp:	2244
Ion Ratio	Lower	Upper	
180	100		
182	12.5	47.6	142.9#
145	243.7	15.4	46.1#

