

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030623\
 Data File : VY012833.D
 Acq On : 06 Mar 2023 18:52
 Operator : KP/MD
 Sample : 01742-01RE
 Misc : 4.99g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR251669

Quant Time: Mar 07 04:27:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030223S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 03 01:13:13 2023
 Response via : Initial Calibration

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

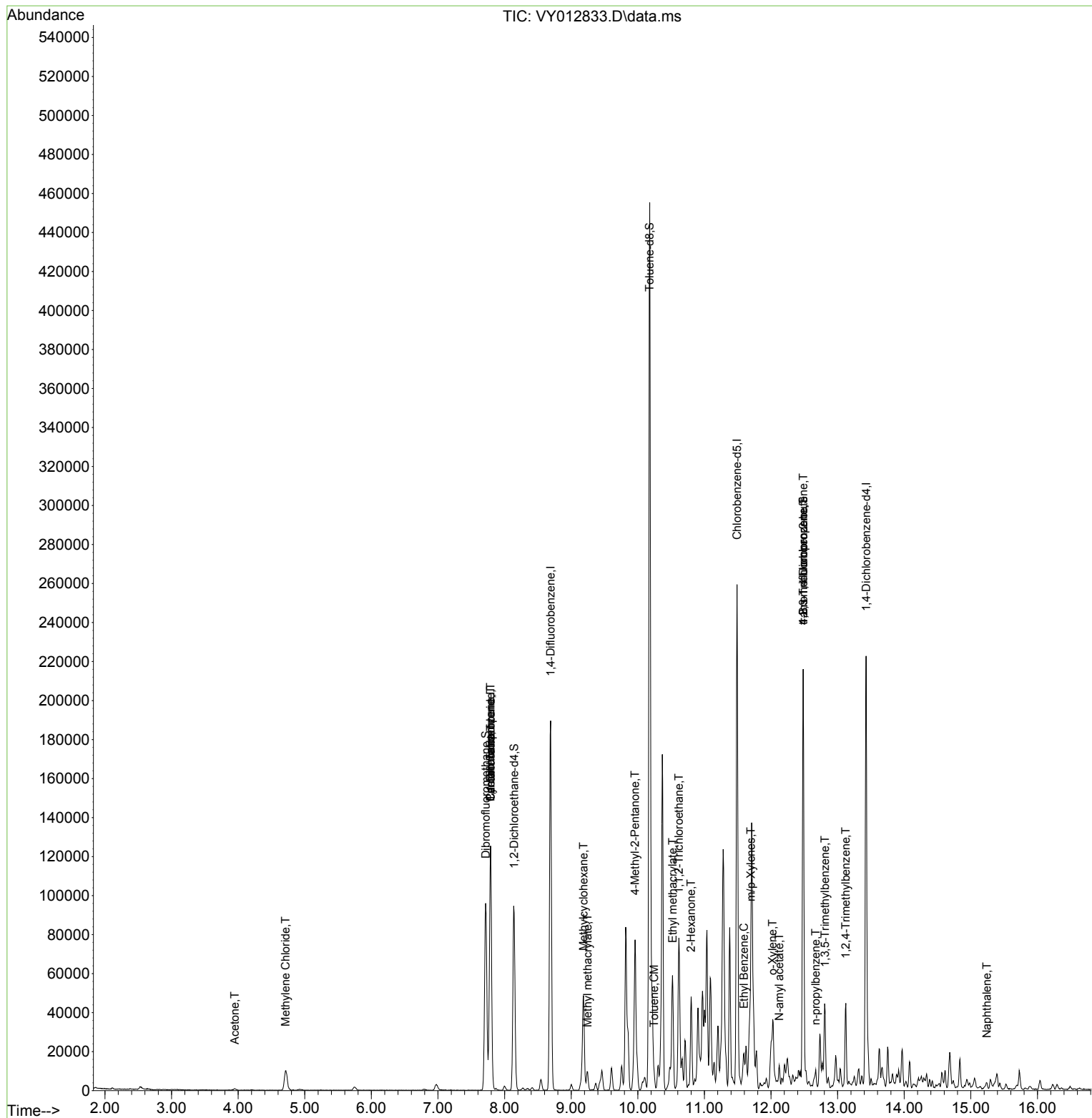
Internal Standards						
1) Pentafluorobenzene	7.789	168	96007	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	161980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	134811	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	55282	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	72252	75.797	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 151.600%			
35) Dibromofluoromethane	7.716	113	67502	69.052	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 138.100%			
50) Toluene-d8	10.179	98	208478	58.336	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 116.680%			
62) 4-Bromofluorobenzene	12.483	95	57730	47.860	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 95.720%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.923	59	601	Below Cal	#	74
16) Acetone	3.948	43	1380	3.688	ug/l	98
20) Methylene Chloride	4.710	84	7666	1.503	ug/l	92
31) Cyclohexane	7.789	56	3258	1.785	ug/l	# 17
36) 1,1-Dichloropropene	7.789	75	7272	4.439	ug/l	# 49
38) Carbon Tetrachloride	7.789	117	9165	5.418	ug/l	# 17
39) Methylcyclohexane	9.185	83	17036	8.747	ug/l	90
48) Methyl methacrylate	9.246	41	2288	2.696	ug/l	# 46
51) 4-Methyl-2-Pentanone	9.959	43	33653	33.679	ug/l	# 43
52) Toluene	10.246	92	3294	1.179	ug/l	99
55) 1,1,2-Trichloroethane	10.618	97	28695	30.883	ug/l	# 19
56) Ethyl methacrylate	10.526	69	5318	4.292	ug/l	# 1
59) 2-Hexanone	10.800	43	18102	24.926	ug/l	# 31
67) Ethyl Benzene	11.593	91	8462	1.701	ug/l	91
68) m/p-Xylenes	11.697	106	10780	5.633	ug/l	96
69) o-Xylene	12.026	106	6631	3.713	ug/l	96
74) N-amyl acetate	12.123	43	2401	1.948	ug/l	# 70
76) 1,2,3-Trichloropropane	12.483	75	31388	47.546	ug/l	# 100
78) n-propylbenzene	12.672	91	6166	1.277	ug/l	97
80) 1,3,5-Trimethylbenzene	12.812	105	6066	1.876	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.483	75	31388	98.518	ug/l	# 13
84) 1,2,4-Trimethylbenzene	13.123	105	21527	6.809	ug/l	100
95) Naphthalene	15.239	128	2323	1.135	ug/l	# 91

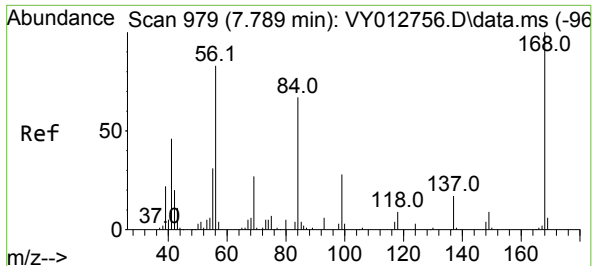
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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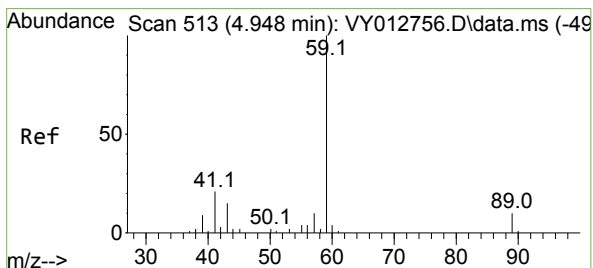
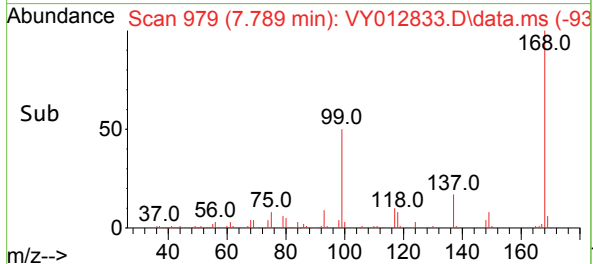
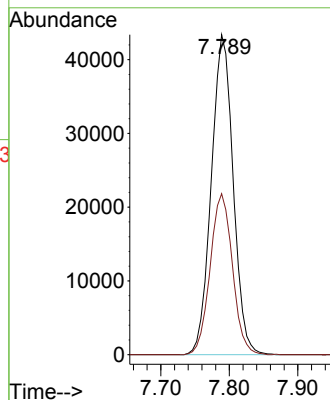
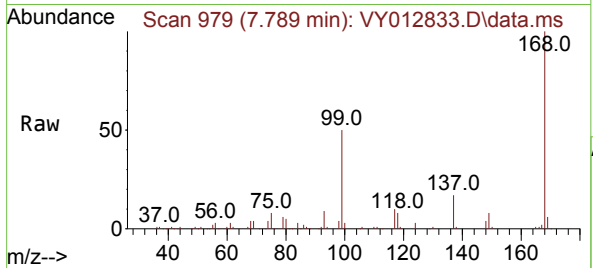




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

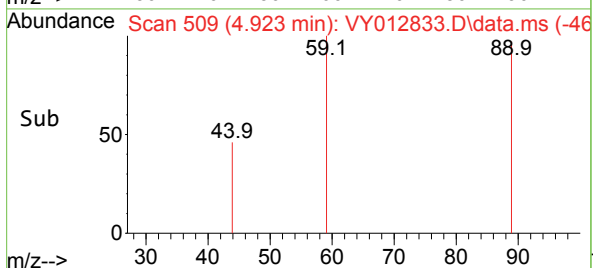
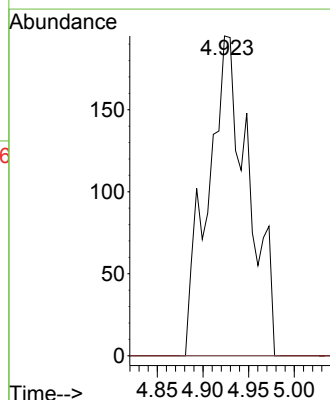
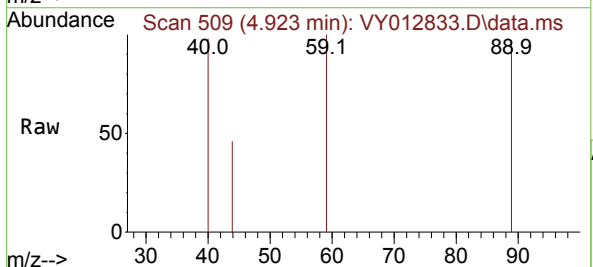
Instrument :
MSVOA_Y
ClientSampleId :
RBR251669

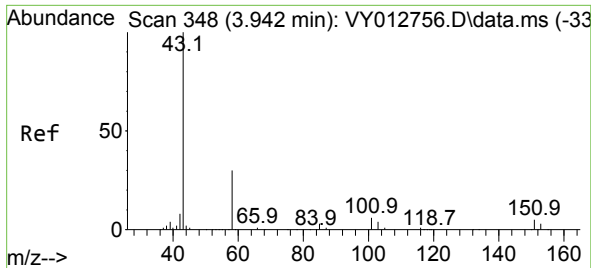
Tgt Ion:168 Resp: 96007
Ion Ratio Lower Upper
168 100
99 50.3 41.7 62.5



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.923 min Scan# 509
Delta R.T. -0.025 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

Tgt Ion: 59 Resp: 601
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

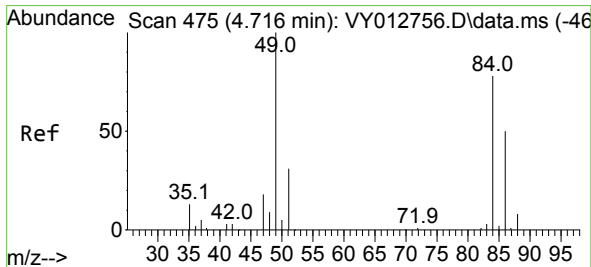
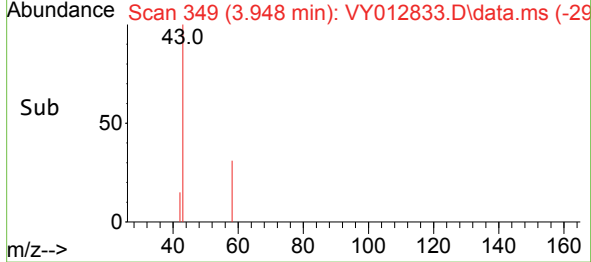
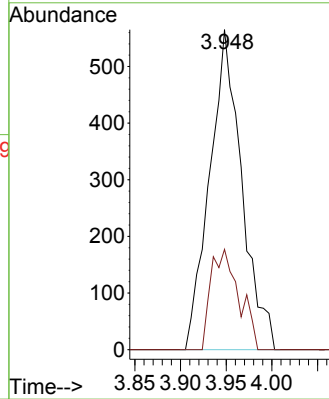
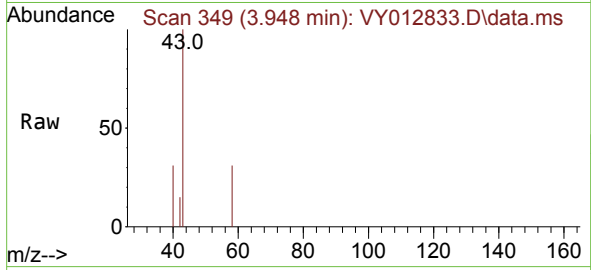




#16
Acetone
Concen: 3.688 ug/l
RT: 3.948 min Scan# 348
Delta R.T. 0.006 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

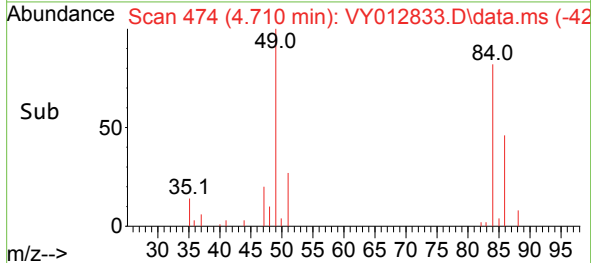
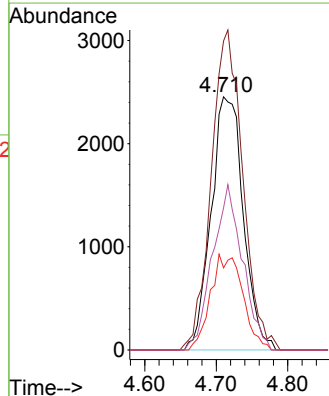
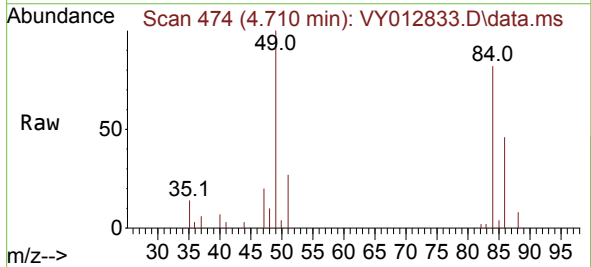
Instrument :
MSVOA_Y
ClientSampleId :
RBR251669

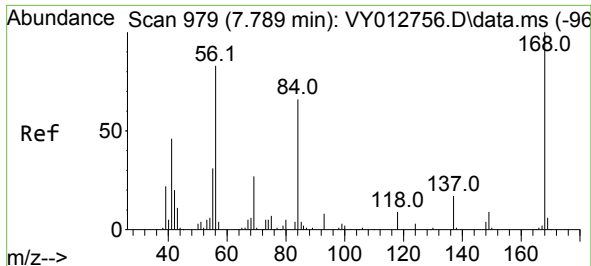
Tgt Ion: 43 Resp: 1380
Ion Ratio Lower Upper
43 100
58 31.3 24.2 36.2



#20
Methylene Chloride
Concen: 1.503 ug/l
RT: 4.710 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

Tgt Ion: 84 Resp: 7666
Ion Ratio Lower Upper
84 100
49 122.0 102.6 154.0
51 32.4 31.9 47.9
86 56.1 51.0 76.6

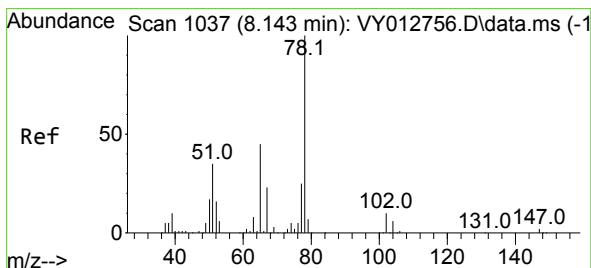
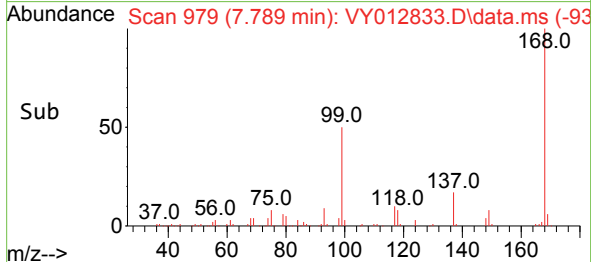
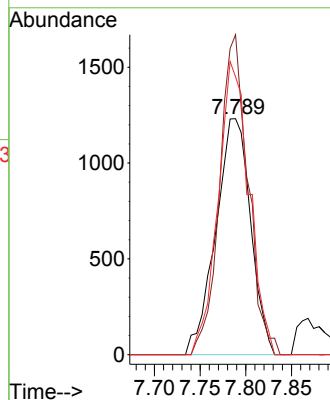
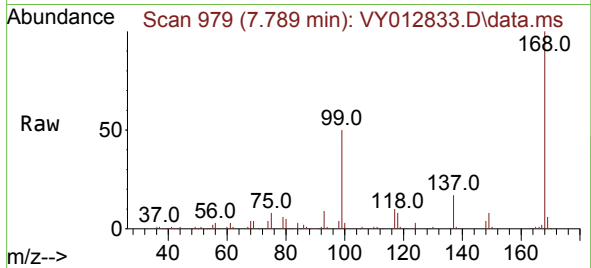




#31
Cyclohexane
Concen: 1.785 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

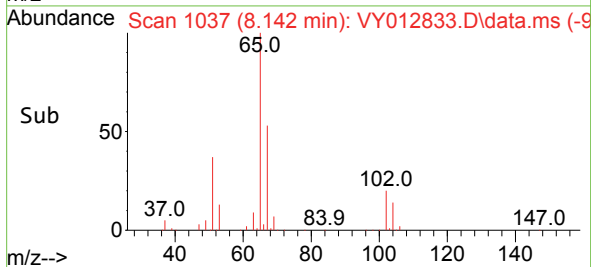
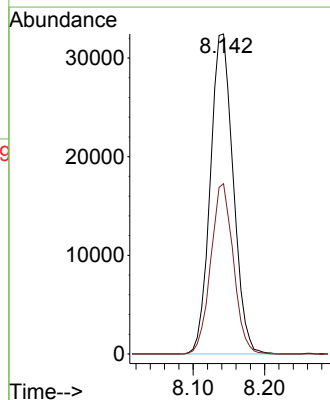
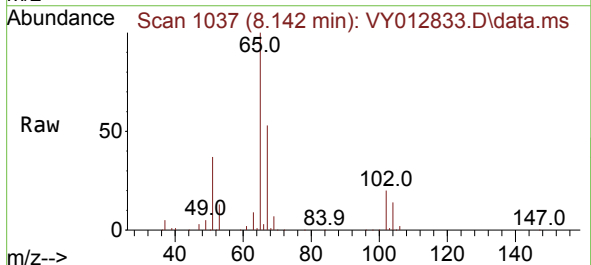
Instrument :
MSVOA_Y
ClientSampleId :
RBR251669

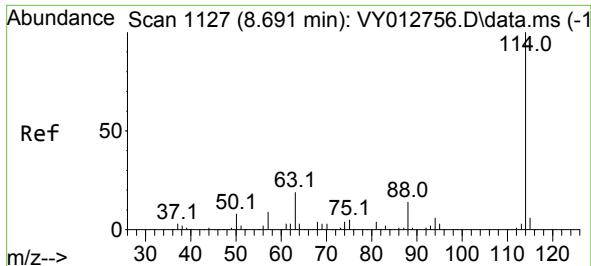
Tgt Ion: 56 Resp: 3258
Ion Ratio Lower Upper
56 100
69 135.6 25.7 38.5#
84 117.7 64.3 96.5#



#33
1,2-Dichloroethane-d4
Concen: 75.797 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. -0.001 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

Tgt Ion: 65 Resp: 72252
Ion Ratio Lower Upper
65 100
67 52.3 0.0 104.0

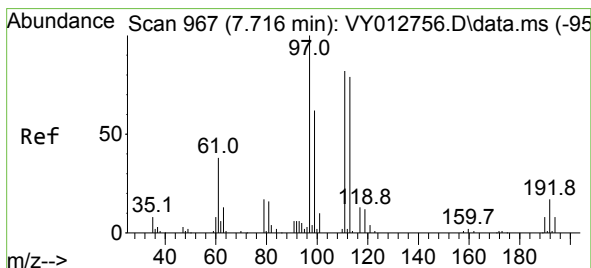
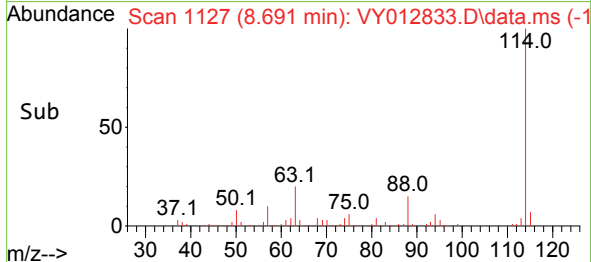
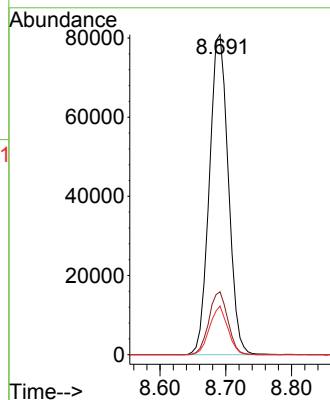
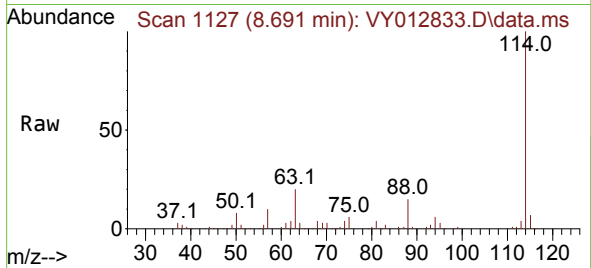




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

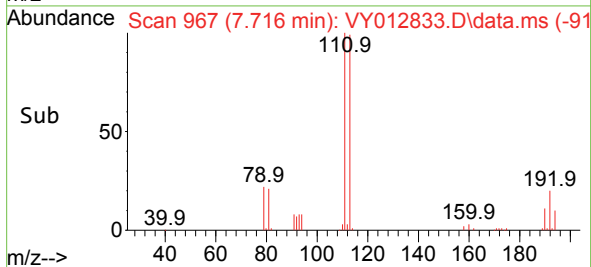
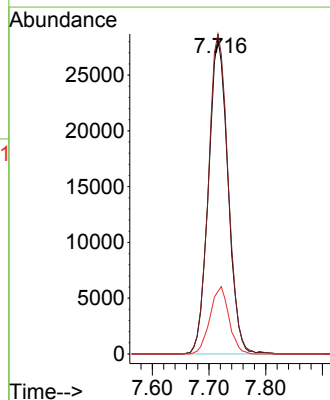
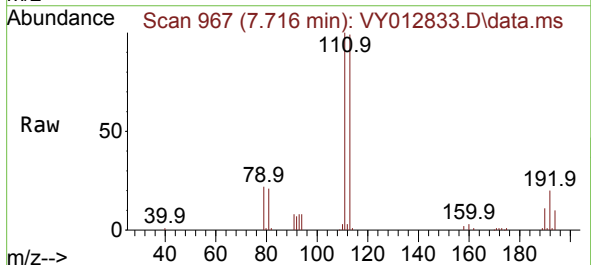
Instrument :
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ClientSampleId :
RBR251669

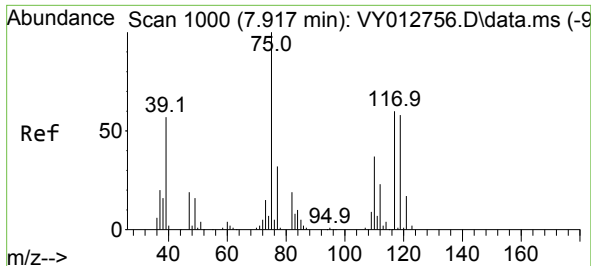
Tgt Ion:114 Resp: 161980
Ion Ratio Lower Upper
114 100
63 19.7 0.0 37.4
88 15.2 0.0 28.6



#35
Dibromofluoromethane
Concen: 69.052 ug/l
RT: 7.716 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

Tgt Ion:113 Resp: 67502
Ion Ratio Lower Upper
113 100
111 102.5 82.2 123.2
192 20.8 16.8 25.2

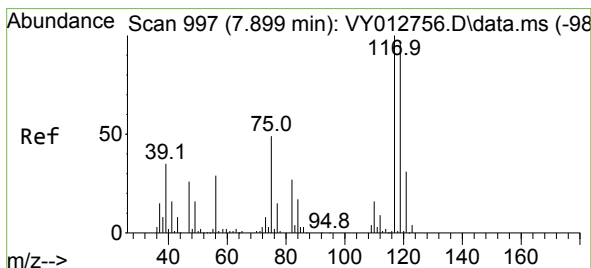
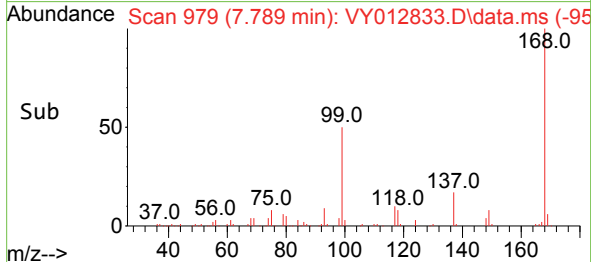
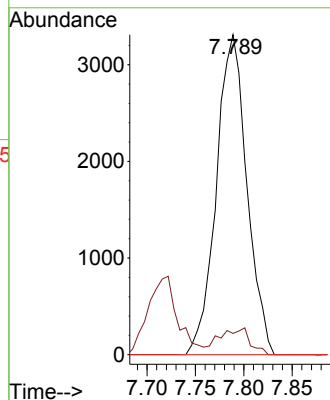
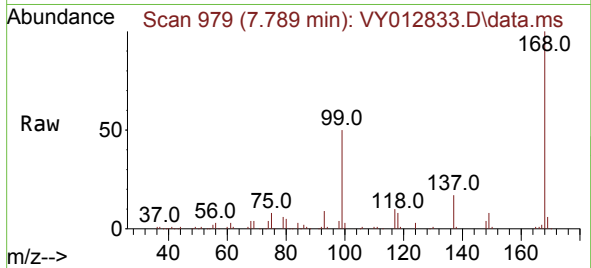




#36
 1,1-Dichloropropene
 Concen: 4.439 ug/l
 RT: 7.789 min Scan# 91
 Delta R.T. -0.128 min
 Lab File: VY012833.D
 Acq: 06 Mar 2023 18:52

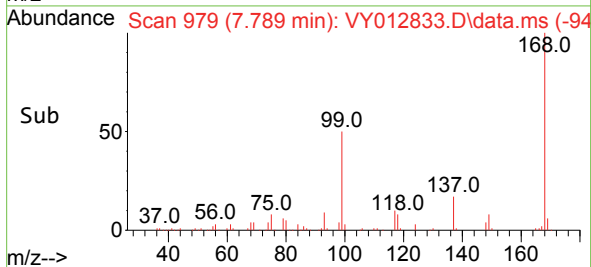
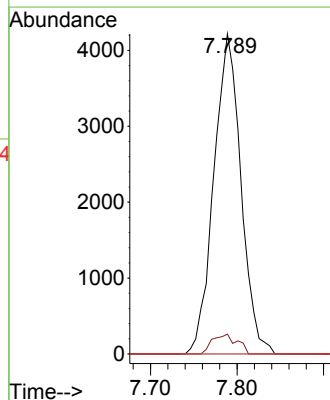
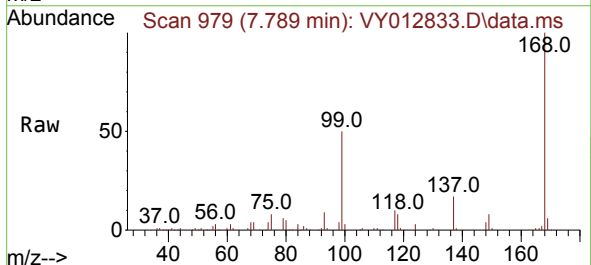
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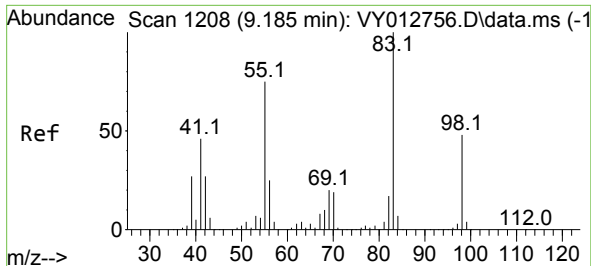
Tgt Ion: 75 Resp: 7272
 Ion Ratio Lower Upper
 75 100
 110 8.4 17.8 53.3#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.418 ug/l
 RT: 7.789 min Scan# 979
 Delta R.T. -0.110 min
 Lab File: VY012833.D
 Acq: 06 Mar 2023 18:52

Tgt Ion: 117 Resp: 9165
 Ion Ratio Lower Upper
 117 100
 119 6.2 77.2 115.8#
 121 0.0 24.7 37.1#





#39

Methylcyclohexane

Concen: 8.747 ug/l

RT: 9.185 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY012833.D

Acq: 06 Mar 2023 18:52

Instrument :

MSVOA_Y

ClientSampleId :

RBR251669

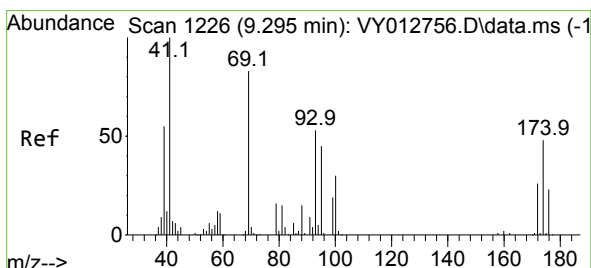
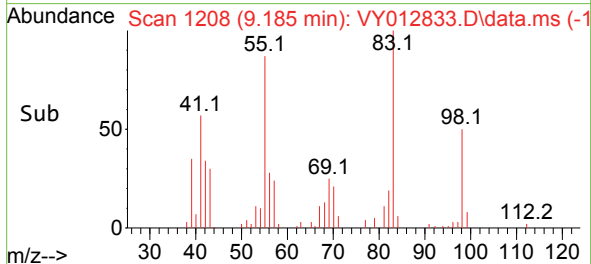
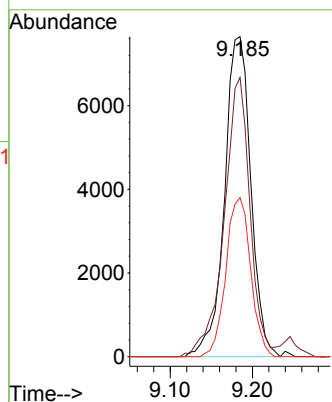
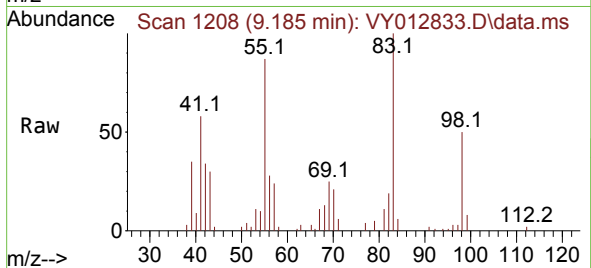
Tgt Ion: 83 Resp: 17036

Ion Ratio Lower Upper

83 100

55 87.3 60.0 90.0

98 49.7 38.3 57.5



#48

Methyl methacrylate

Concen: 2.696 ug/l

RT: 9.246 min Scan# 1218

Delta R.T. -0.049 min

Lab File: VY012833.D

Acq: 06 Mar 2023 18:52

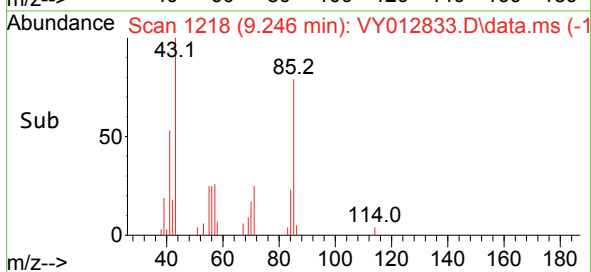
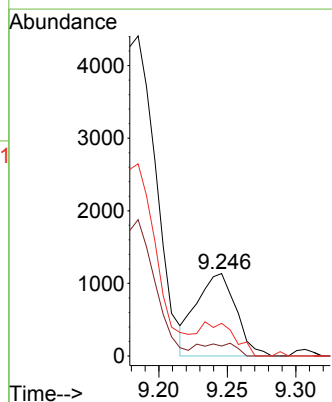
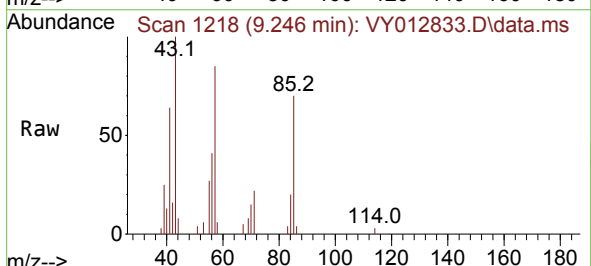
Tgt Ion: 41 Resp: 2288

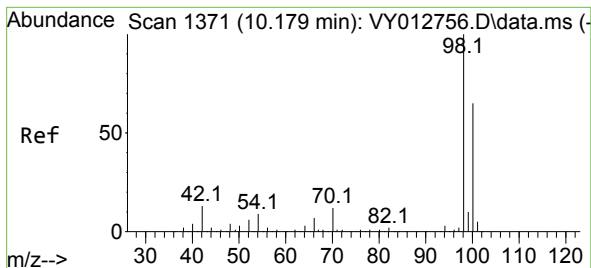
Ion Ratio Lower Upper

41 100

69 14.1 64.1 96.1#

39 37.3 44.0 66.0#





#50

Toluene-d8

Concen: 58.336 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY012833.D

Acq: 06 Mar 2023 18:52

Instrument :

MSVOA_Y

ClientSampleId :

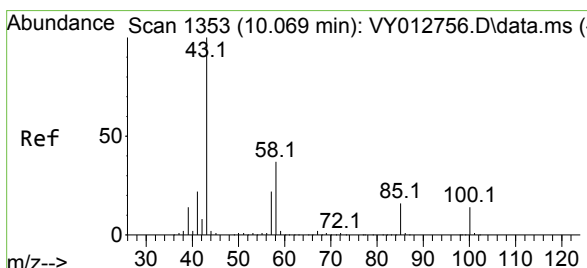
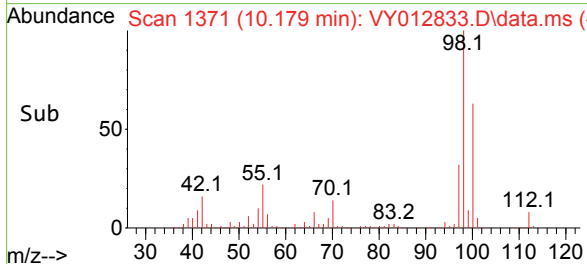
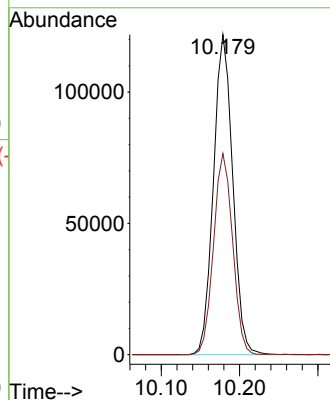
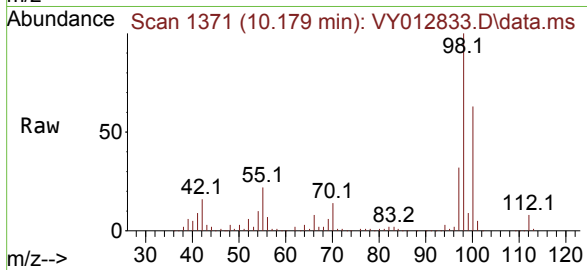
RBR251669

Tgt Ion: 98 Resp: 208478

Ion Ratio Lower Upper

98 100

100 62.3 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 33.679 ug/l

RT: 9.959 min Scan# 1335

Delta R.T. -0.110 min

Lab File: VY012833.D

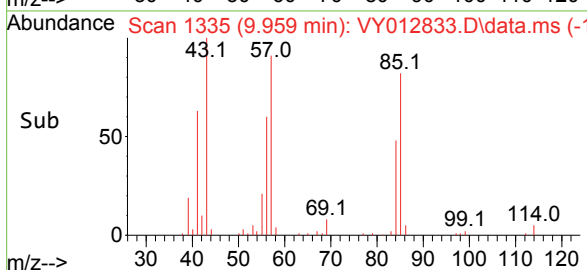
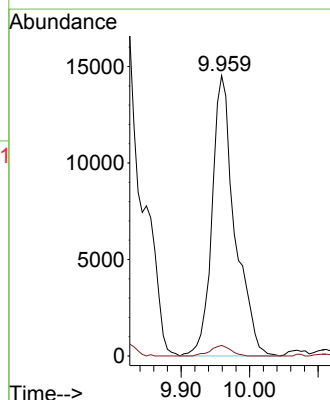
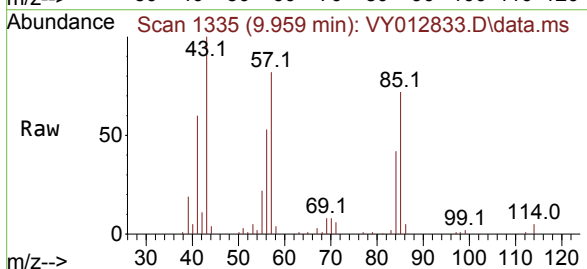
Acq: 06 Mar 2023 18:52

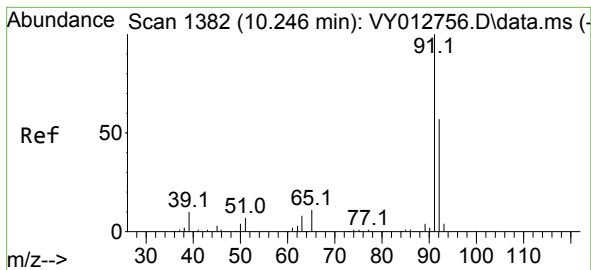
Tgt Ion: 43 Resp: 33653

Ion Ratio Lower Upper

43 100

58 3.4 29.8 44.6#





#52

Toluene

Concen: 1.179 ug/l

RT: 10.246 min Scan# 1382

Delta R.T. -0.000 min

Lab File: VY012833.D

Acq: 06 Mar 2023 18:52

Instrument :

MSVOA_Y

ClientSampleId :

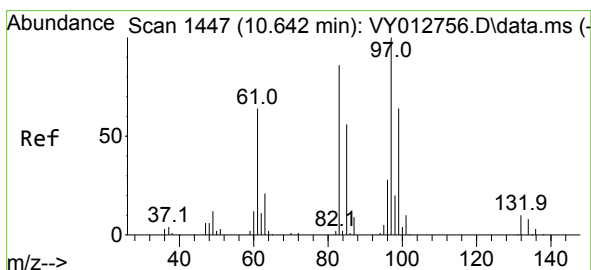
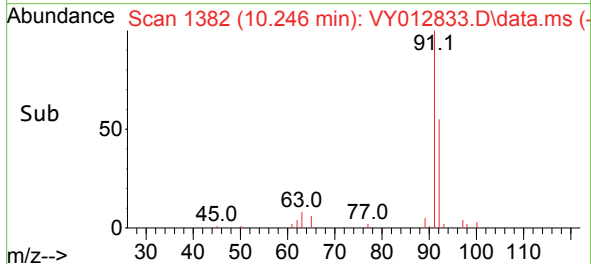
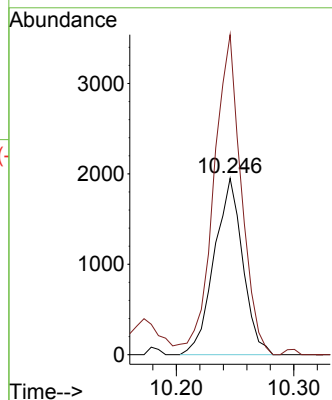
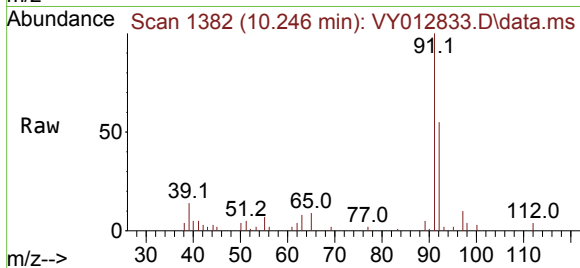
RBR251669

Tgt Ion: 92 Resp: 3294

Ion Ratio Lower Upper

92 100

91 175.8 141.3 211.9



#55

1,1,2-Trichloroethane

Concen: 30.883 ug/l

RT: 10.618 min Scan# 1443

Delta R.T. -0.025 min

Lab File: VY012833.D

Acq: 06 Mar 2023 18:52

Tgt Ion: 97 Resp: 28695

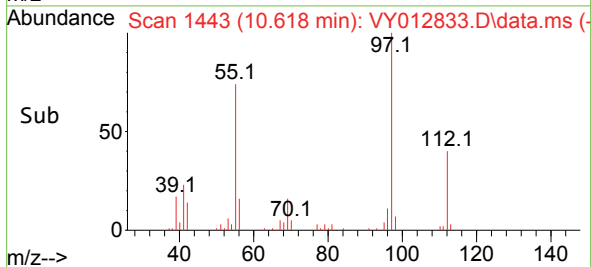
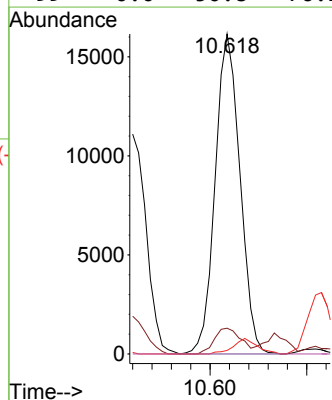
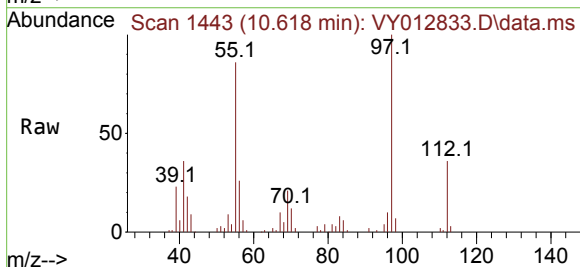
Ion Ratio Lower Upper

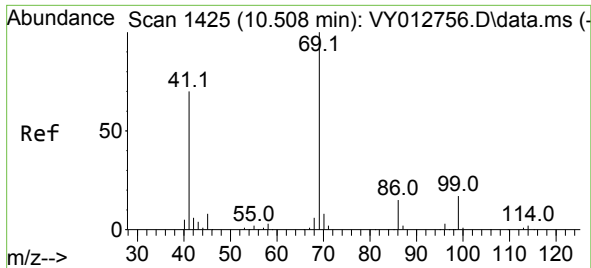
97 100

83 8.1 69.0 103.6#

85 1.1 44.9 67.3#

99 0.0 50.8 76.2#

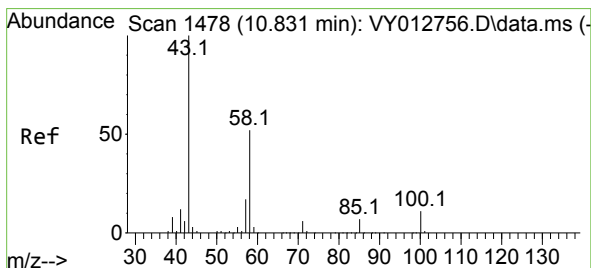
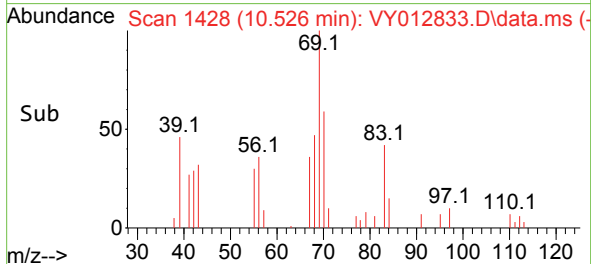
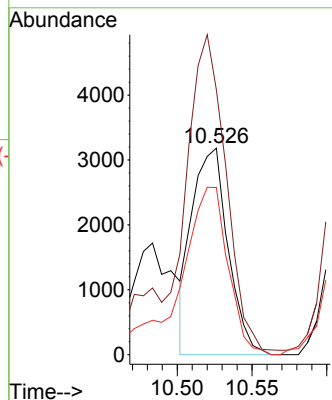
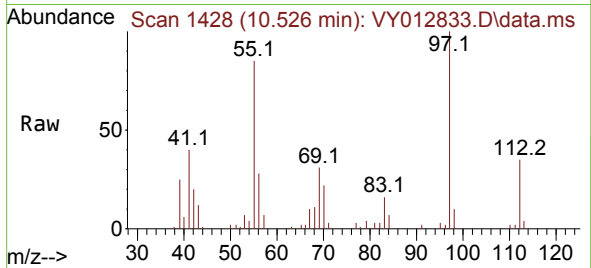




#56
Ethyl methacrylate
Concen: 4.292 ug/l
RT: 10.526 min Scan# 1428
Delta R.T. 0.018 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

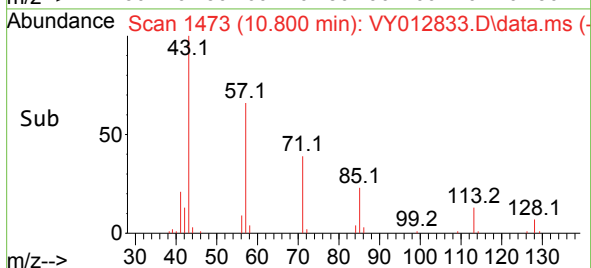
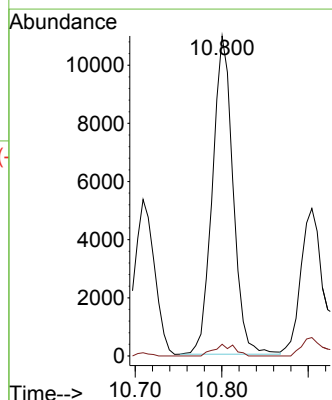
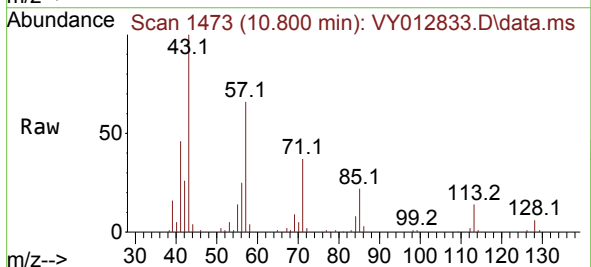
Instrument :
MSVOA_Y
ClientSampleId :
RBR251669

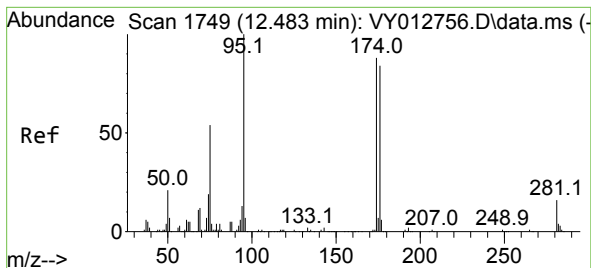
Tgt Ion: 69 Resp: 5318
Ion Ratio Lower Upper
69 100
41 208.2 56.4 84.6#
39 113.3 30.8 46.2#



#59
2-Hexanone
Concen: 24.926 ug/l
RT: 10.800 min Scan# 1473
Delta R.T. -0.031 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

Tgt Ion: 43 Resp: 18102
Ion Ratio Lower Upper
43 100
58 3.7 25.9 77.8#

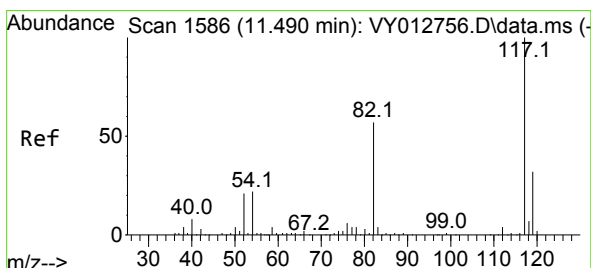
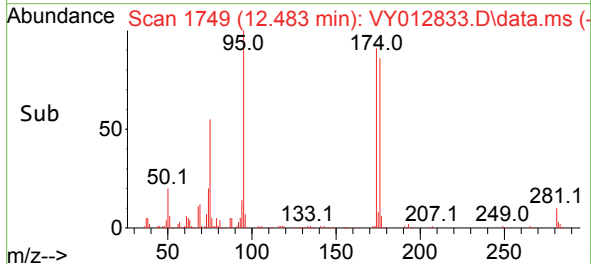
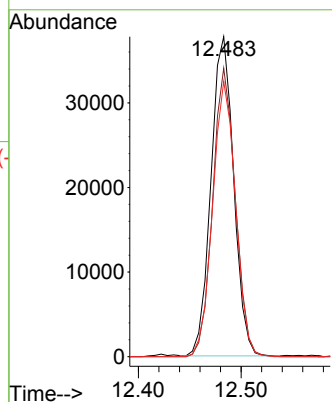
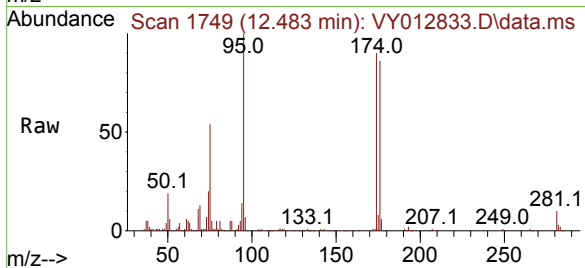




#62
4-Bromofluorobenzene
Concen: 47.860 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

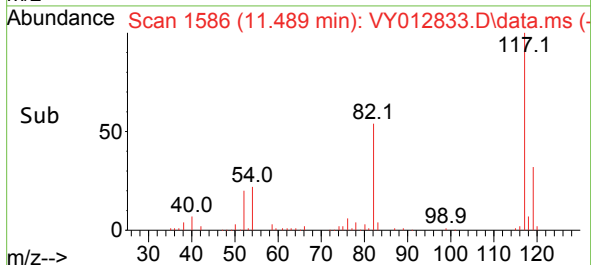
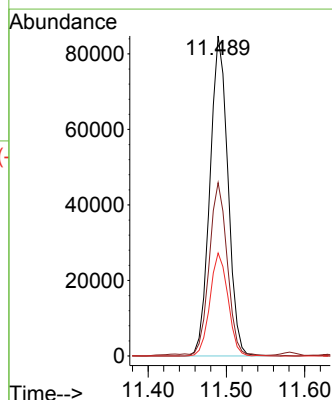
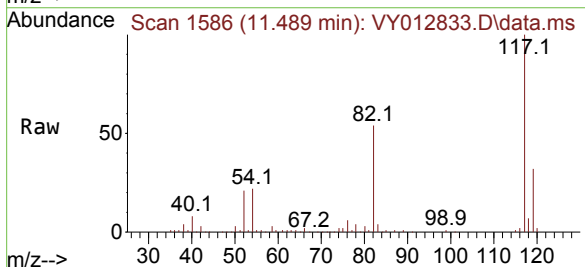
Instrument :
MSVOA_Y
ClientSampleId :
RBR251669

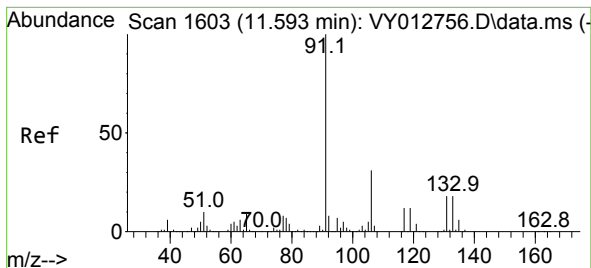
Tgt Ion: 95 Resp: 57730
Ion Ratio Lower Upper
95 100
174 89.9 0.0 176.6
176 87.1 0.0 170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

Tgt Ion: 117 Resp: 134811
Ion Ratio Lower Upper
117 100
82 53.7 45.4 68.0
119 32.1 25.6 38.4





#67

Ethyl Benzene

Concen: 1.701 ug/l

RT: 11.593 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY012833.D

Acq: 06 Mar 2023 18:52

Instrument :

MSVOA_Y

ClientSampleId :

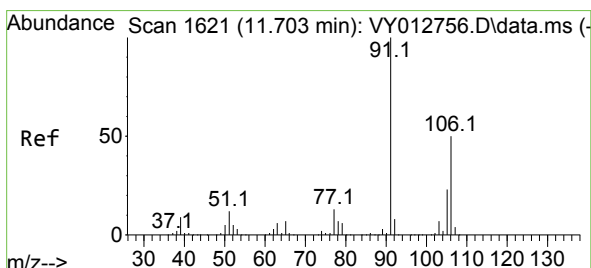
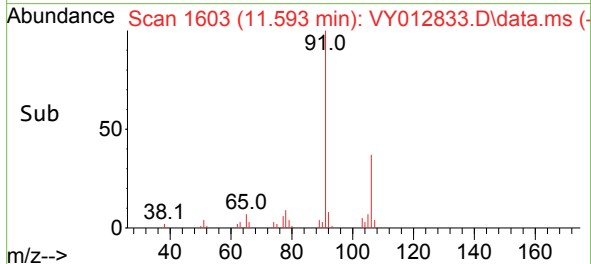
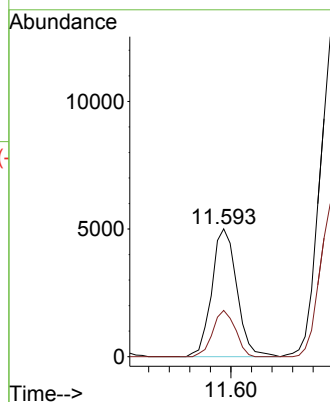
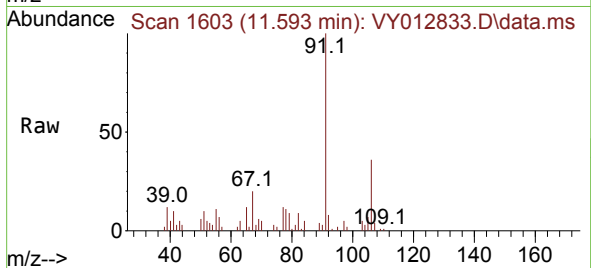
RBR251669

Tgt Ion: 91 Resp: 8462

Ion Ratio Lower Upper

91 100

106 36.2 25.1 37.7



#68

m/p-Xylenes

Concen: 5.633 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. -0.006 min

Lab File: VY012833.D

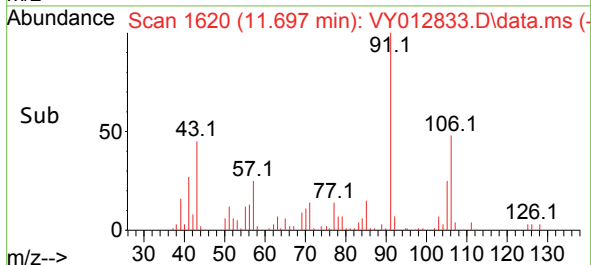
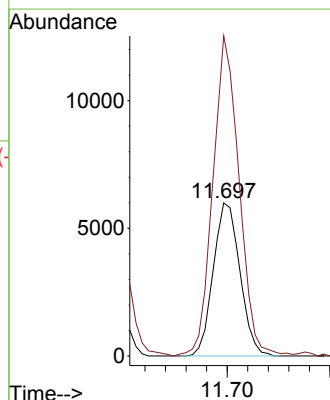
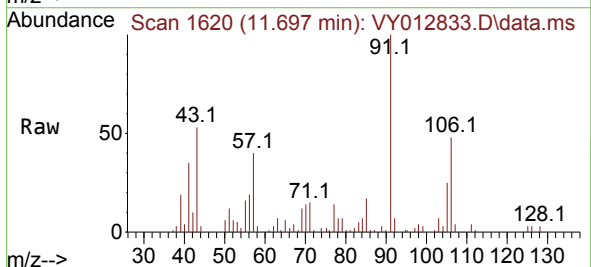
Acq: 06 Mar 2023 18:52

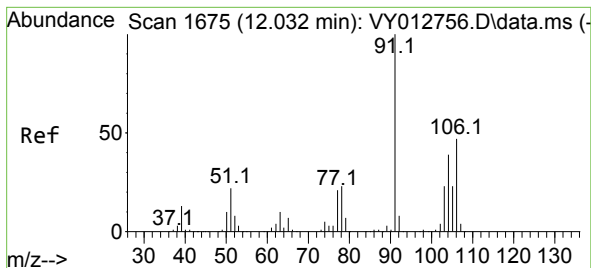
Tgt Ion:106 Resp: 10780

Ion Ratio Lower Upper

106 100

91 205.8 159.8 239.8





#69

o-Xylene

Concen: 3.713 ug/l

RT: 12.026 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY012833.D

Acq: 06 Mar 2023 18:52

Instrument :

MSVOA_Y

ClientSampleId :

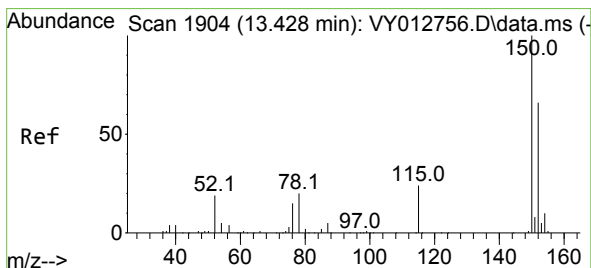
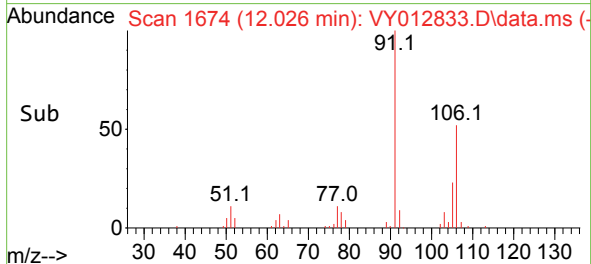
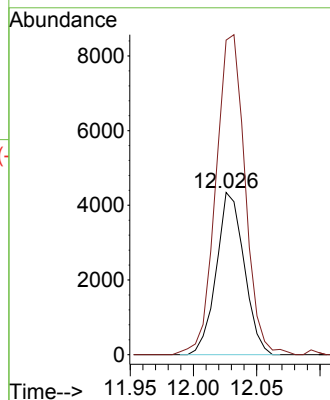
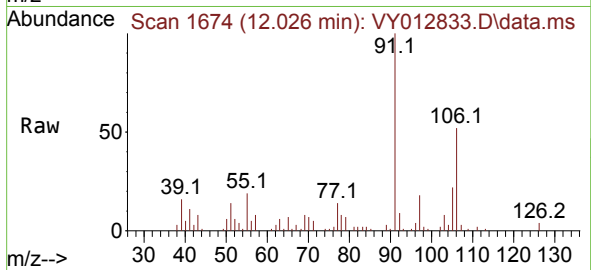
RBR251669

Tgt Ion:106 Resp: 6631

Ion Ratio Lower Upper

106 100

91 207.4 107.2 321.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VY012833.D

Acq: 06 Mar 2023 18:52

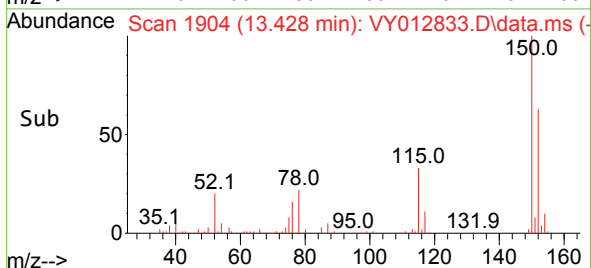
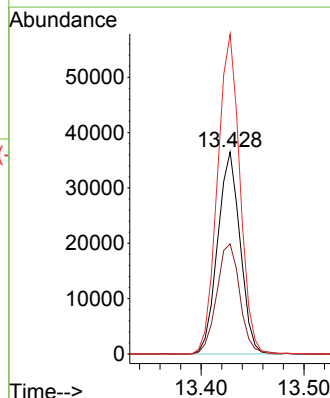
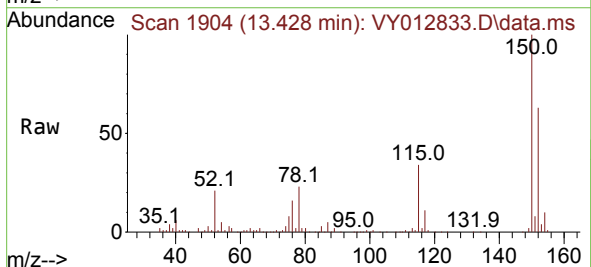
Tgt Ion:152 Resp: 55282

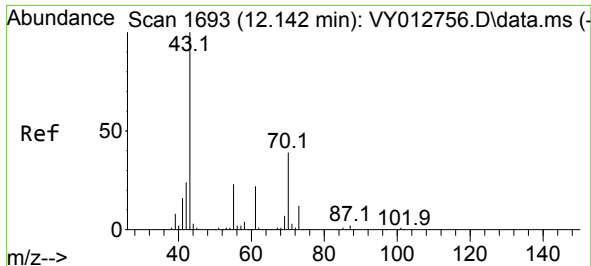
Ion Ratio Lower Upper

152 100

115 56.5 27.1 81.3

150 157.7 0.0 347.8

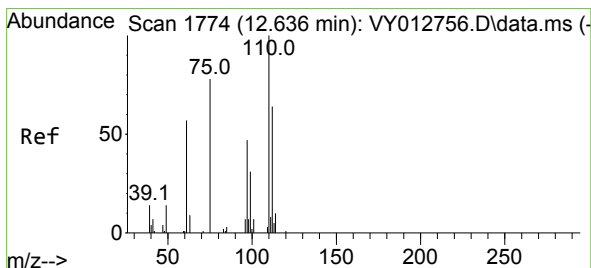
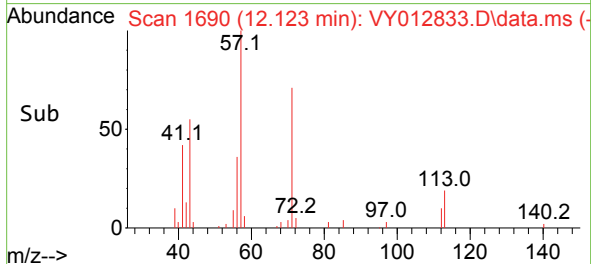
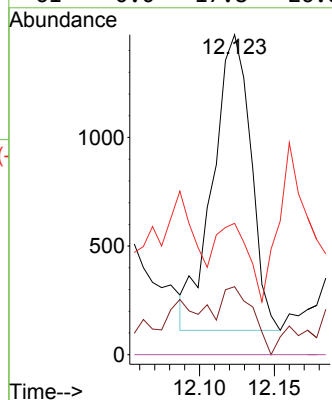
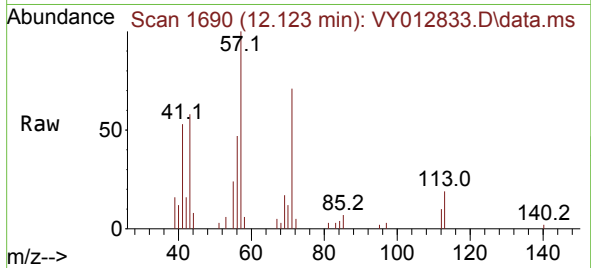




#74
N-amy1 acetate
Concen: 1.948 ug/l
RT: 12.123 min Scan# 1
Delta R.T. -0.018 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

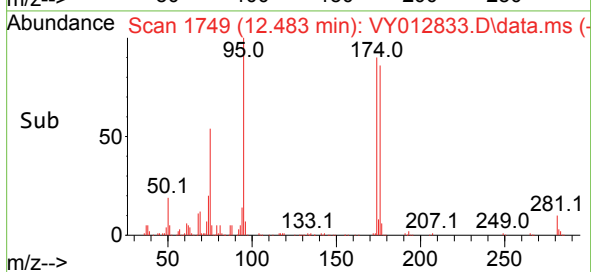
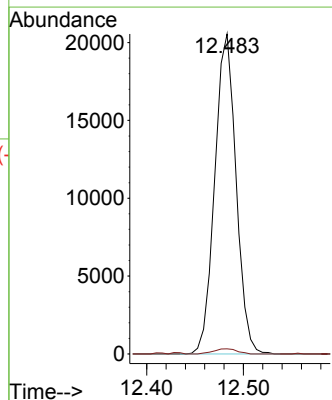
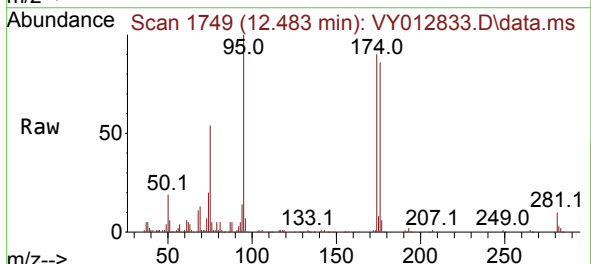
Instrument :
MSVOA_Y
ClientSampleId :
RBR251669

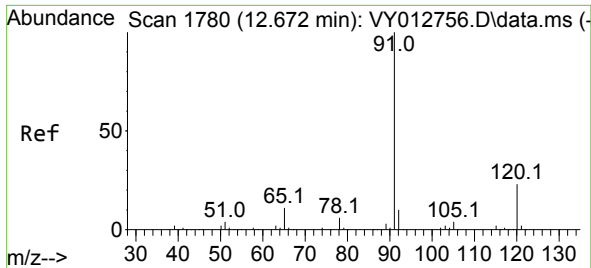
Tgt Ion: 43	Resp: 2401
Ion Ratio	Lower Upper
43	100
70	18.0 31.6 47.4#
55	26.5 18.8 28.2
61	0.0 17.8 26.8#



#76
1,2,3-Trichloropropane
Concen: 47.546 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.153 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

Tgt Ion: 75	Resp: 31388
Ion Ratio	Lower Upper
75	100
77	1.8 0.0 0.0#

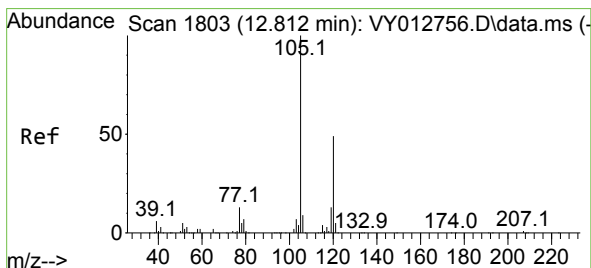
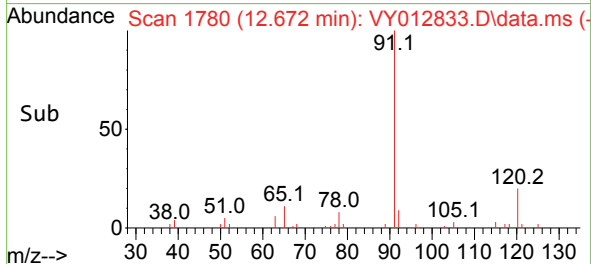
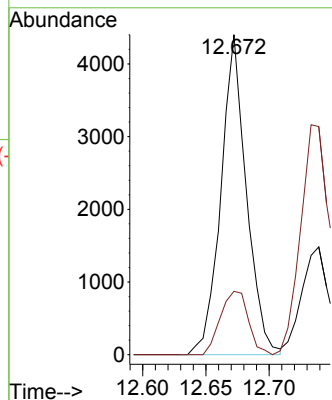
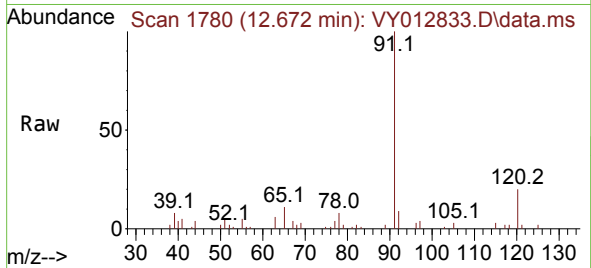




#78
n-propylbenzene
Concen: 1.277 ug/l
RT: 12.672 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

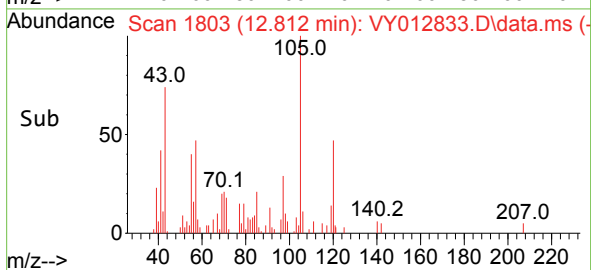
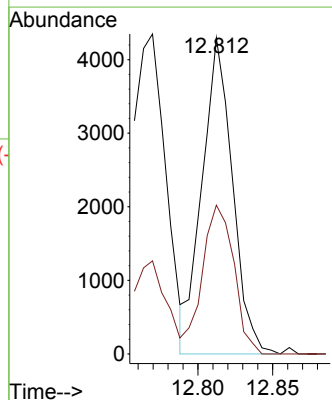
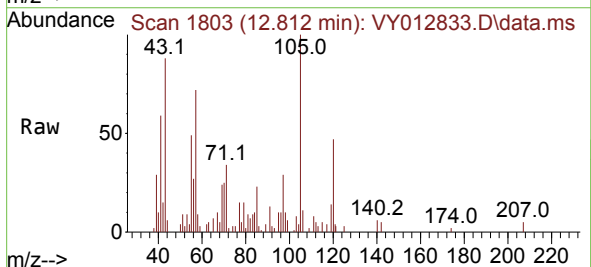
Instrument :
MSVOA_Y
ClientSampleId :
RBR251669

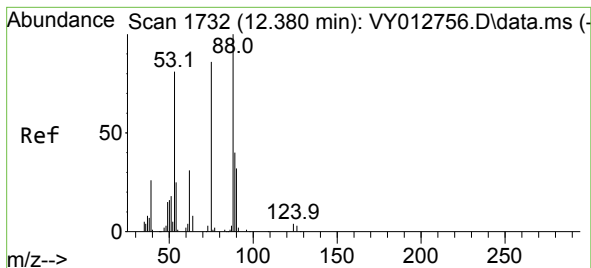
Tgt Ion: 91 Resp: 6166
Ion Ratio Lower Upper
91 100
120 21.7 11.6 34.8



#80
1,3,5-Trimethylbenzene
Concen: 1.876 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

Tgt Ion: 105 Resp: 6066
Ion Ratio Lower Upper
105 100
120 48.9 24.8 74.4

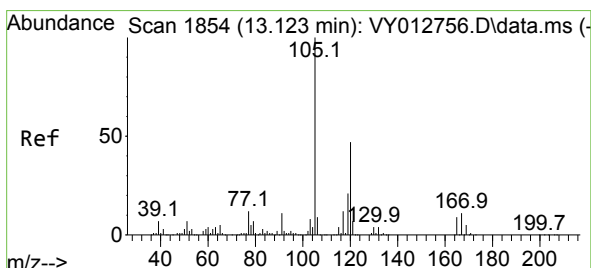
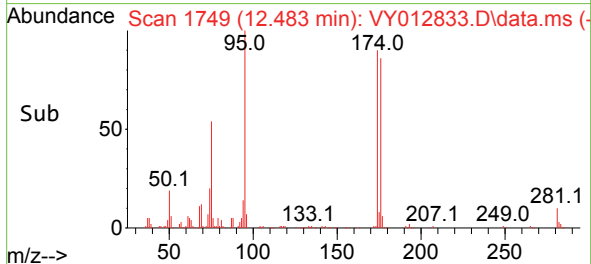
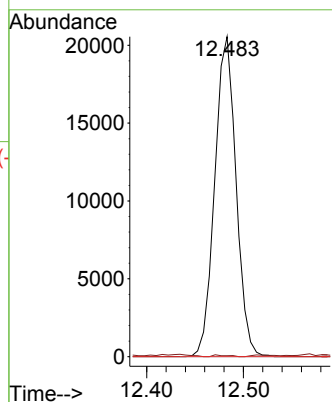
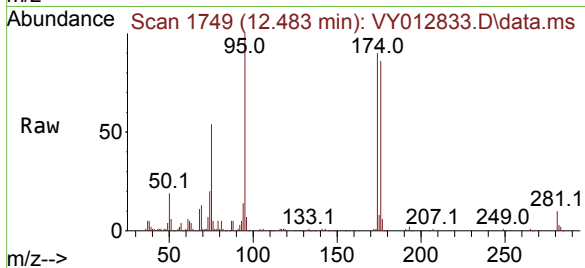




#81
trans-1,4-Dichloro-2-butene
Concen: 98.518 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

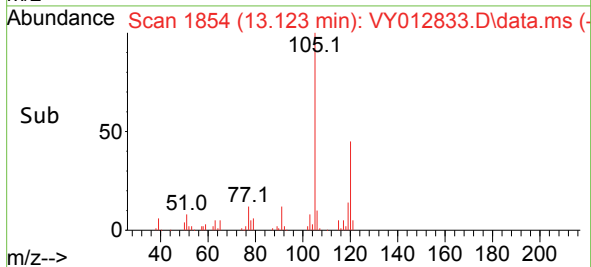
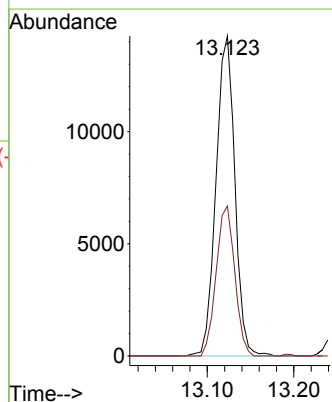
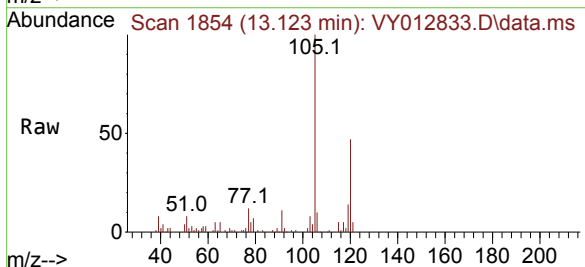
Instrument :
MSVOA_Y
ClientSampleId :
RBR251669

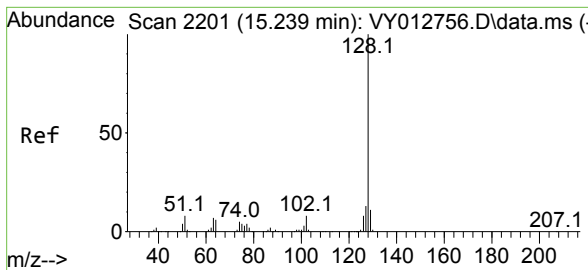
Tgt Ion: 75 Resp: 31388
Ion Ratio Lower Upper
75 100
53 0.4 73.4 110.0#
89 0.0 36.6 55.0#



#84
1,2,4-Trimethylbenzene
Concen: 6.809 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. -0.000 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

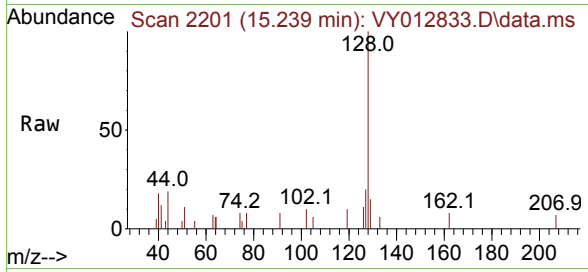
Tgt Ion: 105 Resp: 21527
Ion Ratio Lower Upper
105 100
120 46.3 23.0 69.0





#95
Naphthalene
Concen: 1.135 ug/l
RT: 15.239 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY012833.D
Acq: 06 Mar 2023 18:52

Instrument :
MSVOA_Y
ClientSampleId :
RBR251669



Tgt Ion:	128	Resp:	2323
Ion	Ratio	Lower	Upper
128	100		
127	16.8	10.3	15.5#
129	13.6	8.6	13.0#

