

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071823\
 Data File : VY014698.D
 Acq On : 18 Jul 2023 13:45
 Operator : SY/MD
 Sample : 03646-04
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 YARD-1

Quant Time: Jul 19 04:03:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 14 02:09:50 2023
 Response via : Initial Calibration

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

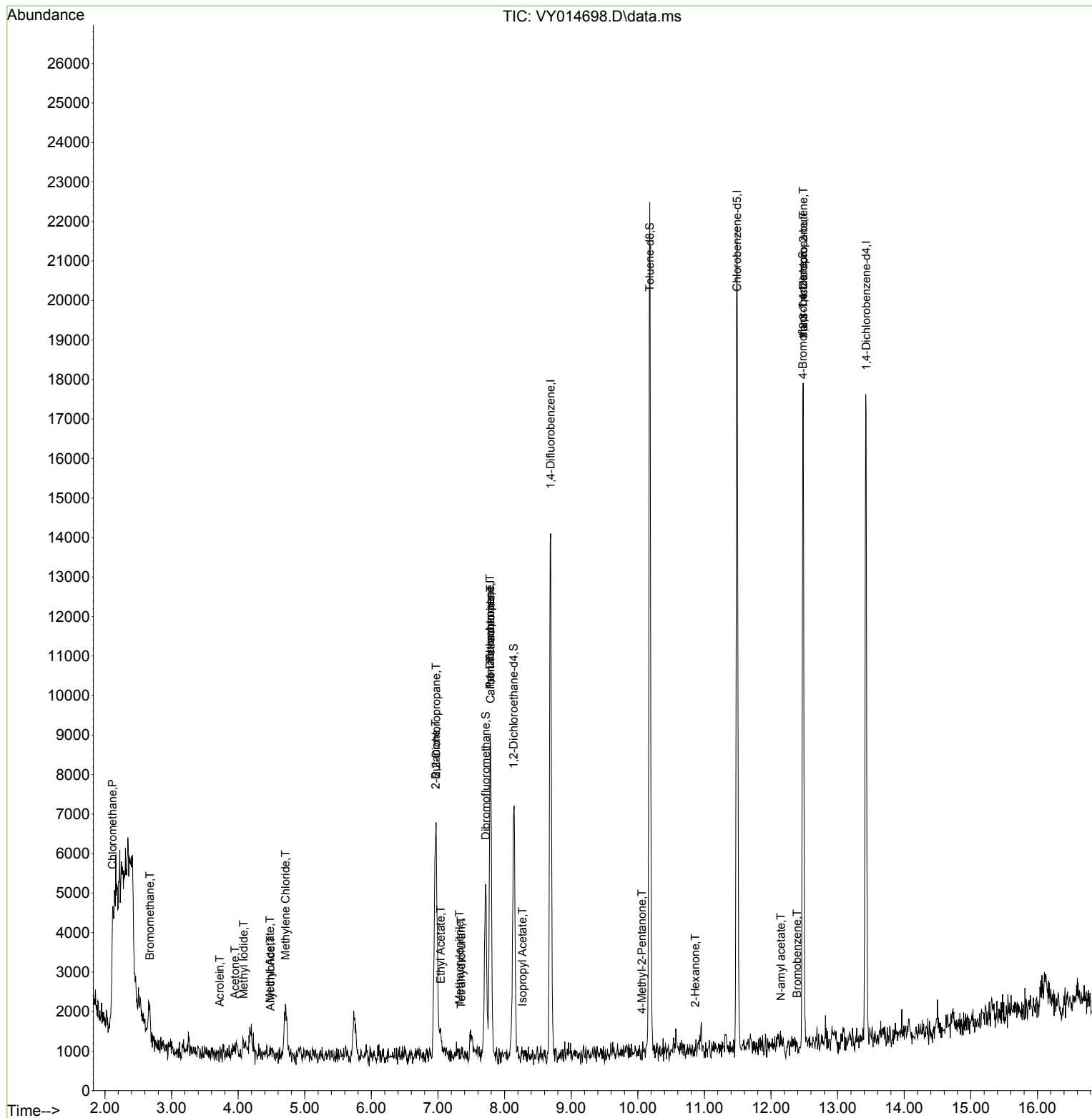
Internal Standards						
1) Pentafluorobenzene	7.783	168	6853	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	11724	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	11741	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	4545	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	4905	62.810	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 125.620%			
35) Dibromofluoromethane	7.716	113	3169	42.462	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 84.920%			
50) Toluene-d8	10.179	98	14771	53.683	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 107.360%			
62) 4-Bromofluorobenzene	12.477	95	5246	49.723	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.440%			
Target Compounds						Qvalue
3) Chloromethane	2.113	50	463	7.377	ug/l	90
5) Bromomethane	2.674	94	541	11.671	ug/l #	47
10) Methyl Iodide	4.082	142	391	7.236	ug/l #	89
11) Tert butyl alcohol	4.918	59	20	Below Cal	#	89
13) Acrolein	3.723	56	19	2.328	ug/l #	59
14) Allyl chloride	4.485	41	169	1.410	ug/l #	22
16) Acetone	3.954	43	869	35.116	ug/l	97
18) Methyl Acetate	4.479	43	171	1.801	ug/l #	54
20) Methylene Chloride	4.710	84	1107	10.428	ug/l #	61
25) 2-Butanone	6.966	43	500	13.811	ug/l #	49
26) 2,2-Dichloropropane	6.972	77	605	4.554	ug/l #	54
29) Tetrahydrofuran	7.350	42	41	1.839	ug/l #	35
36) 1,1-Dichloropropene	7.783	75	567	5.080	ug/l #	41
37) Ethyl Acetate	7.039	43	153	1.991	ug/l #	71
38) Carbon Tetrachloride	7.789	117	679	5.755	ug/l #	12
41) Methacrylonitrile	7.326	41	66	1.670	ug/l #	17
43) Isopropyl Acetate	8.271	43	157	1.073	ug/l #	55
51) 4-Methyl-2-Pentanone	10.063	43	118	1.535	ug/l #	39
59) 2-Hexanone	10.862	43	120	2.141	ug/l #	27
74) N-amyl acetate	12.148	43	252	2.114	ug/l #	46
76) 1,2,3-Trichloropropane	12.483	75	2955	51.479	ug/l #	100
77) Bromobenzene	12.392	156	103	1.268	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.483	75	2955	99.672	ug/l #	10

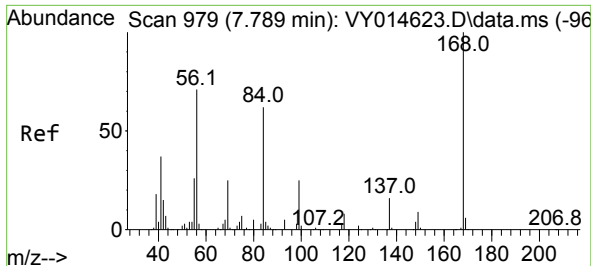
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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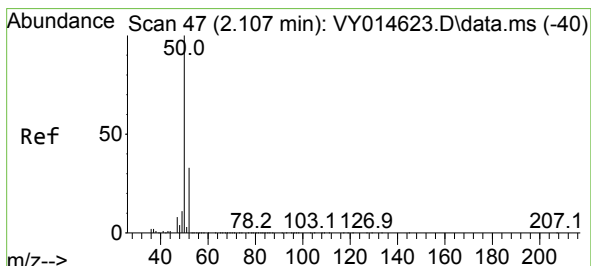
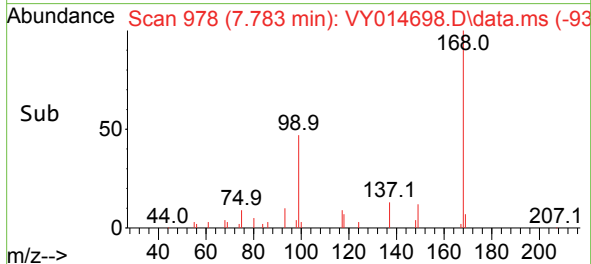
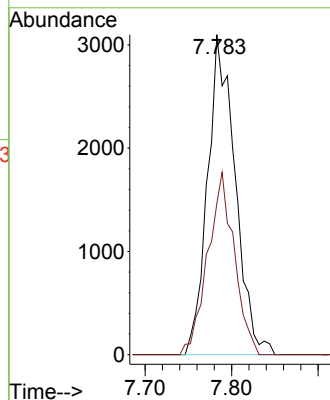
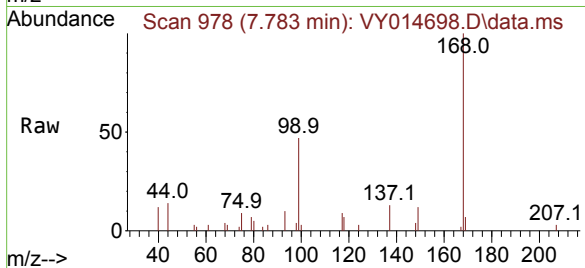




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

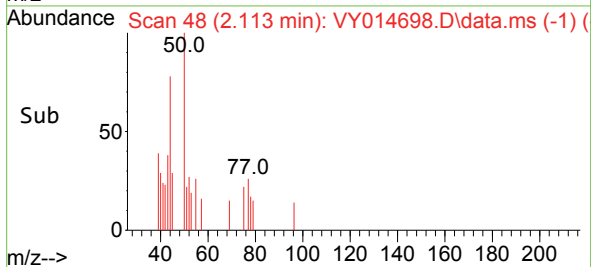
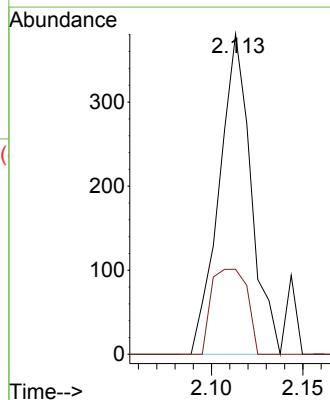
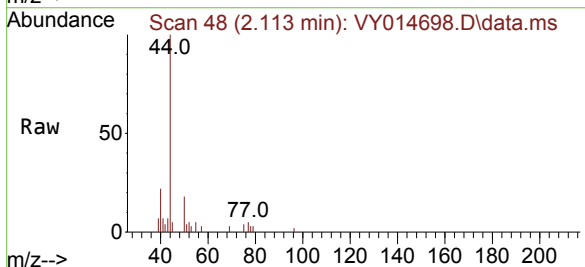
Instrument :
MSVOA_Y
ClientSampleId :
YARD-1

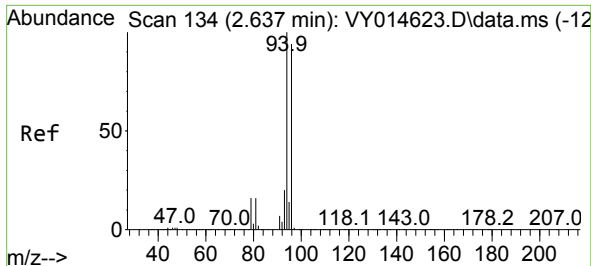
Tgt Ion:168 Resp: 6853
Ion Ratio Lower Upper
168 100
99 47.3 43.4 65.0



#3
Chloromethane
Concen: 7.377 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

Tgt Ion: 50 Resp: 463
Ion Ratio Lower Upper
50 100
52 26.5 25.4 38.2

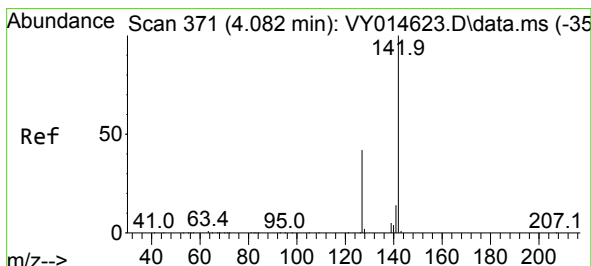
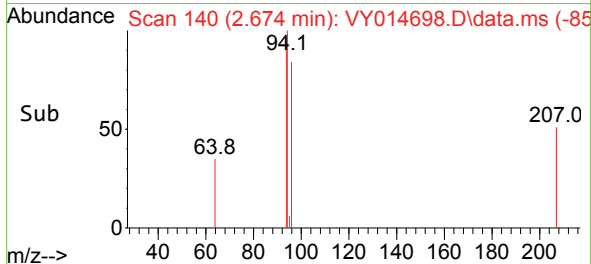
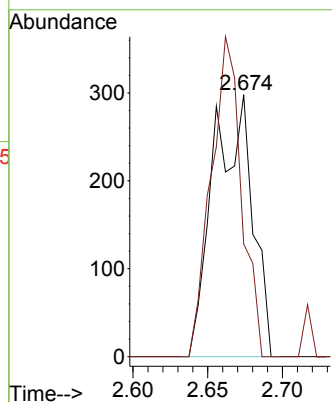
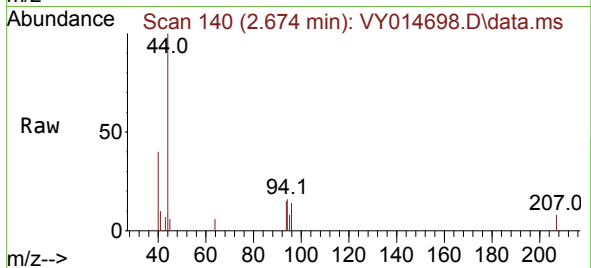




#5
Bromomethane
Concen: 11.671 ug/l
RT: 2.674 min Scan# 14
Delta R.T. 0.037 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

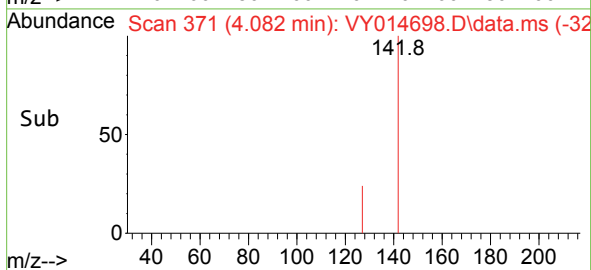
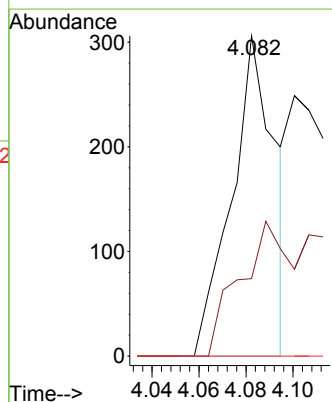
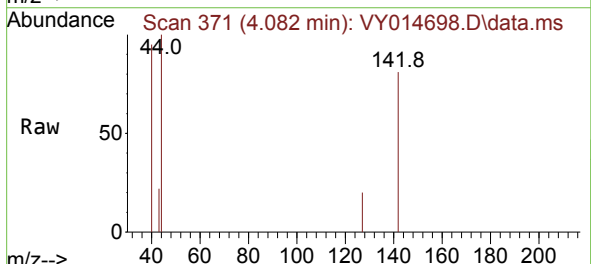
Instrument :
MSVOA_Y
ClientSampleId :
YARD-1

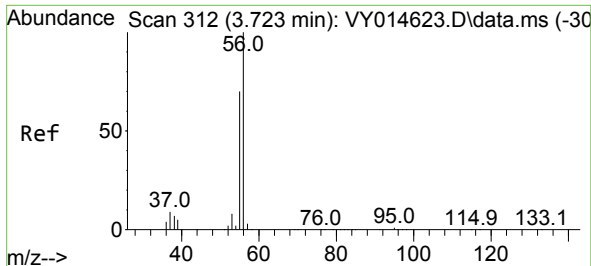
Tgt Ion: 94 Resp: 541
Ion Ratio Lower Upper
94 100
96 43.0 75.8 113.6#



#10
Methyl Iodide
Concen: 7.236 ug/l
RT: 4.082 min Scan# 371
Delta R.T. 0.000 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

Tgt Ion:142 Resp: 391
Ion Ratio Lower Upper
142 100
127 49.1 37.6 56.4
141 0.0 11.8 17.8#

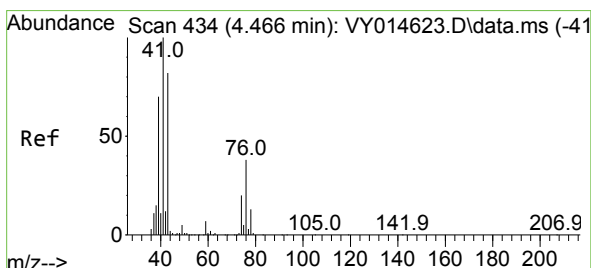
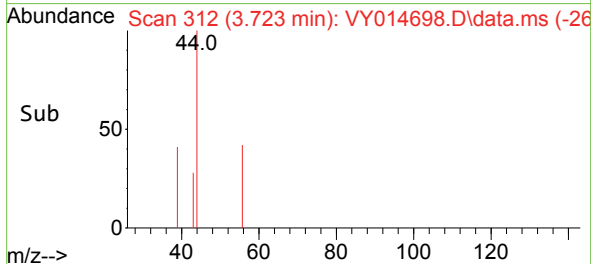
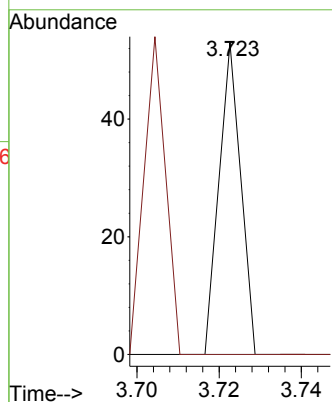
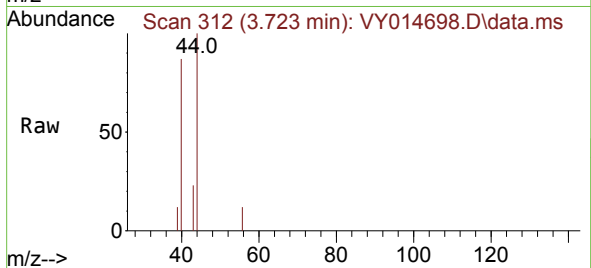




#13
Acrolein
Concen: 2.328 ug/l
RT: 3.723 min Scan# 312
Delta R.T. -0.000 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

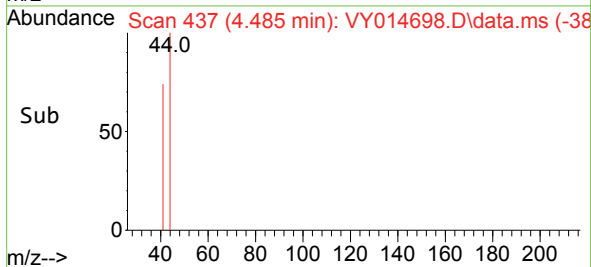
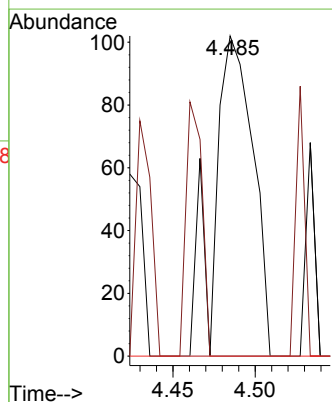
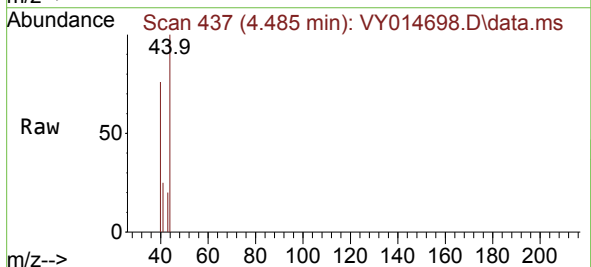
Instrument :
MSVOA_Y
ClientSampleId :
YARD-1

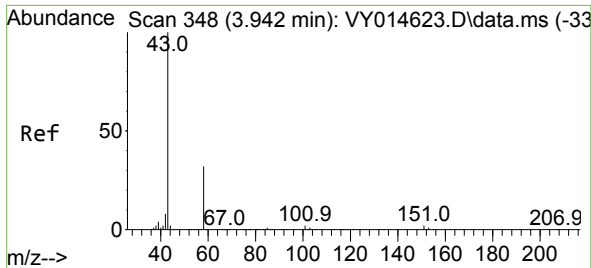
Tgt Ion: 56 Resp: 19
Ion Ratio Lower Upper
56 100
55 105.3 57.0 85.4#



#14
Allyl chloride
Concen: 1.410 ug/l
RT: 4.485 min Scan# 437
Delta R.T. 0.019 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

Tgt Ion: 41 Resp: 169
Ion Ratio Lower Upper
41 100
39 0.0 58.0 87.0#
76 0.0 27.4 41.2#

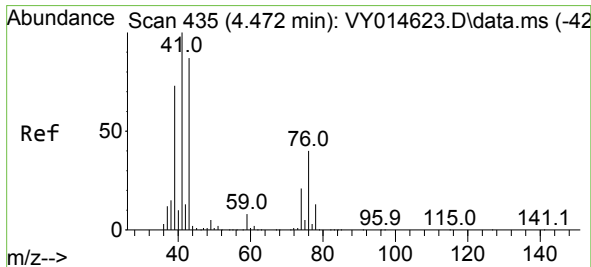
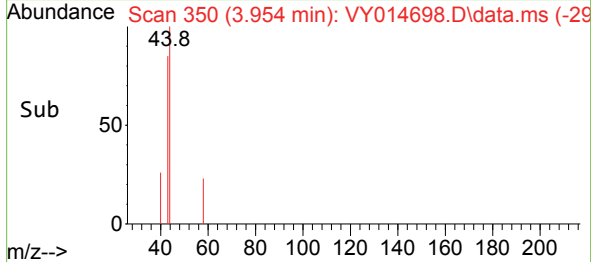
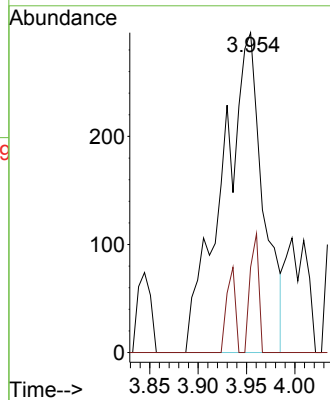
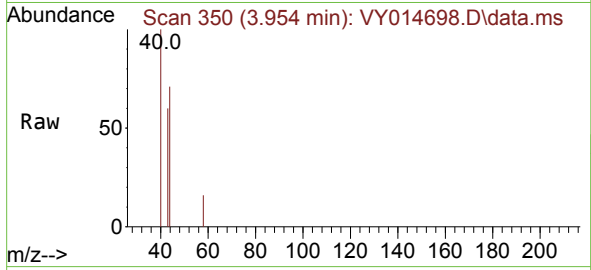




#16
Acetone
Concen: 35.116 ug/l
RT: 3.954 min Scan# 311
Delta R.T. 0.012 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

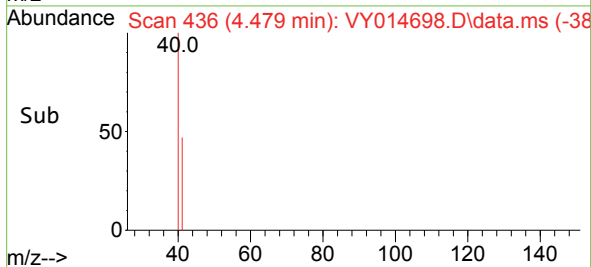
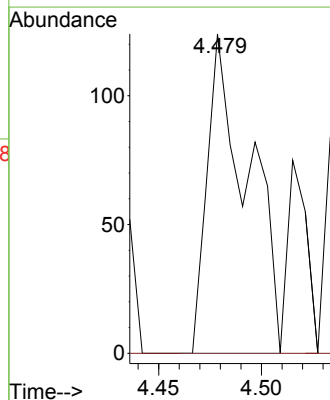
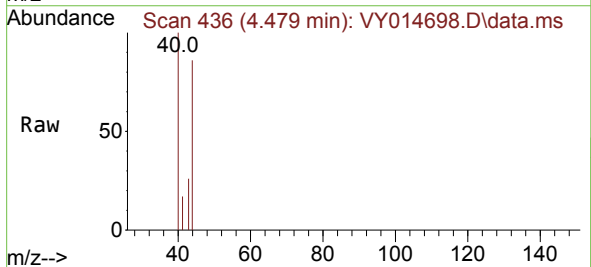
Instrument :
MSVOA_Y
ClientSampleId :
YARD-1

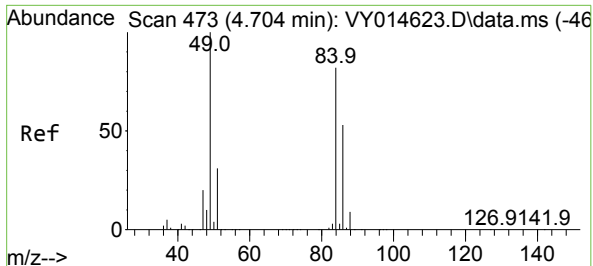
Tgt Ion: 43 Resp: 869
Ion Ratio Lower Upper
43 100
58 26.7 22.7 34.1



#18
Methyl Acetate
Concen: 1.801 ug/l
RT: 4.479 min Scan# 436
Delta R.T. 0.007 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

Tgt Ion: 43 Resp: 171
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.0#





#20

Methylene Chloride

Concen: 10.428 ug/l

RT: 4.710 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY014698.D

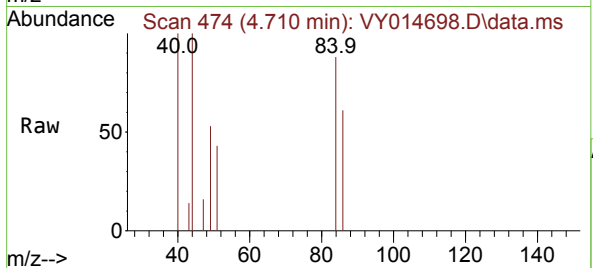
Acq: 18 Jul 2023 13:45

Instrument :

MSVOA_Y

ClientSampleId :

YARD-1



Tgt Ion: 84 Resp: 1107

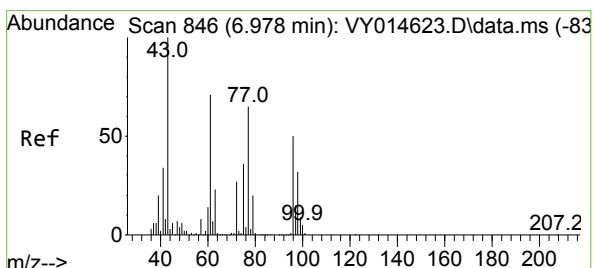
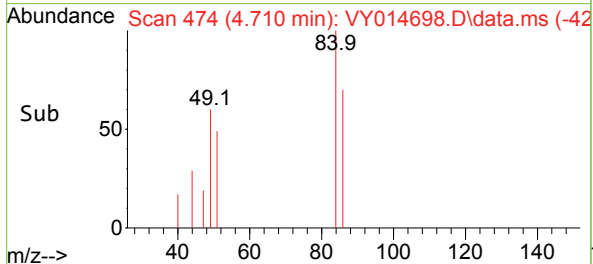
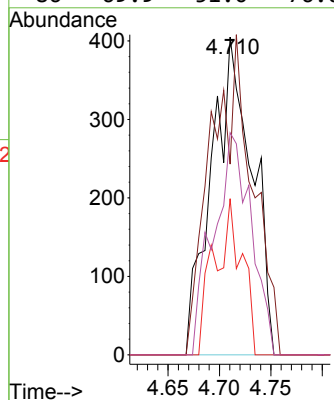
Ion Ratio Lower Upper

84 100

49 60.0 106.9 160.3#

51 49.1 33.2 49.8

86 69.9 51.0 76.6



#25

2-Butanone

Concen: 13.811 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.012 min

Lab File: VY014698.D

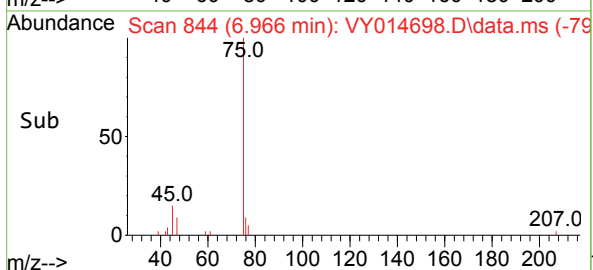
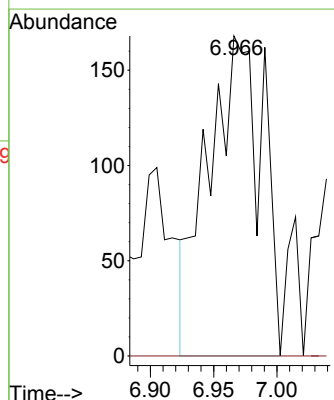
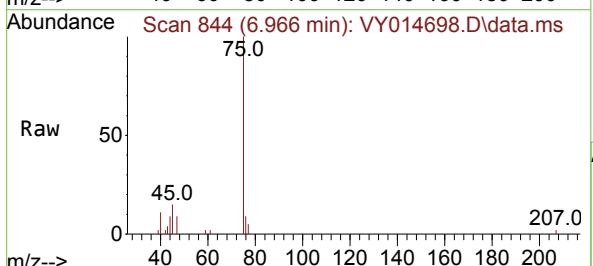
Acq: 18 Jul 2023 13:45

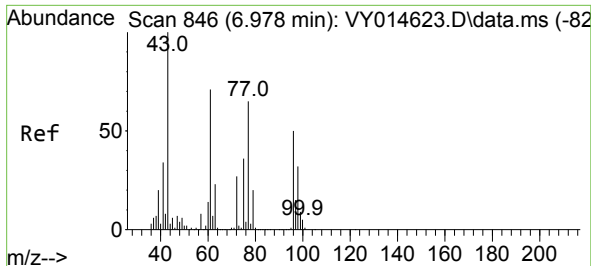
Tgt Ion: 43 Resp: 500

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#

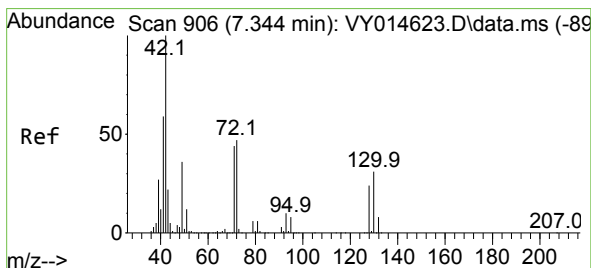
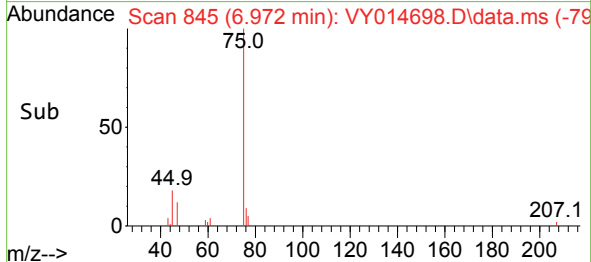
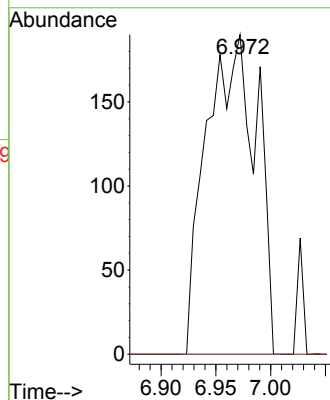
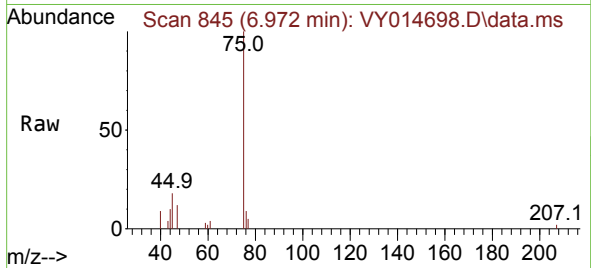




#26
2,2-Dichloropropane
Concen: 4.554 ug/l
RT: 6.972 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

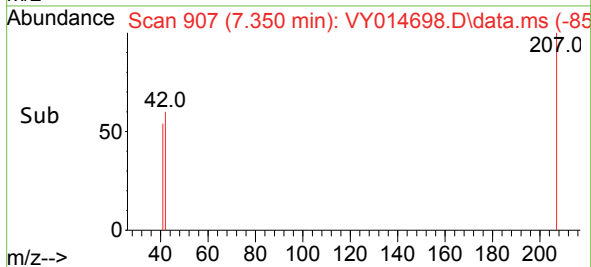
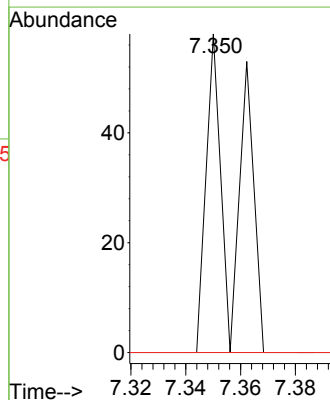
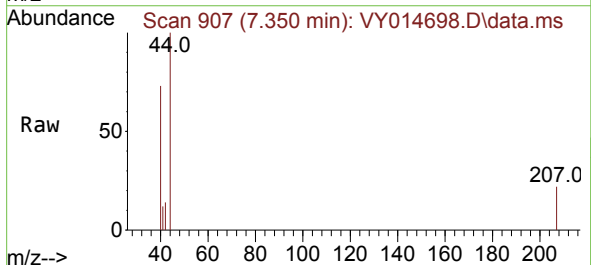
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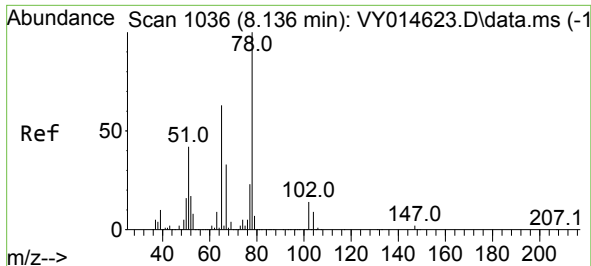
Tgt Ion: 77 Resp: 605
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



#29
Tetrahydrofuran
Concen: 1.839 ug/l
RT: 7.350 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

Tgt Ion: 42 Resp: 41
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 0.0 31.0 46.4#

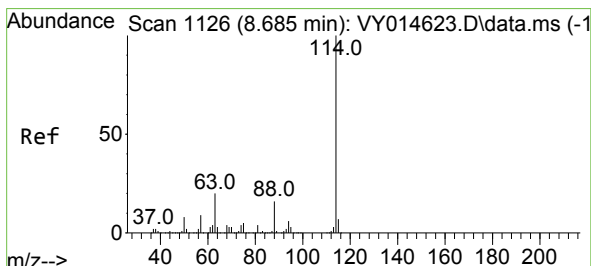
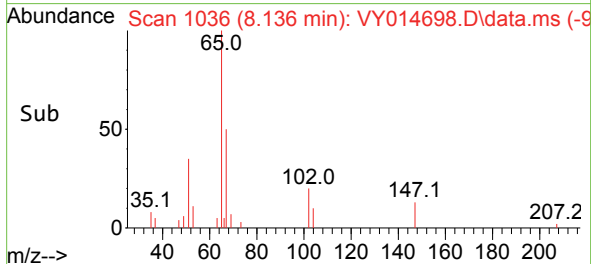
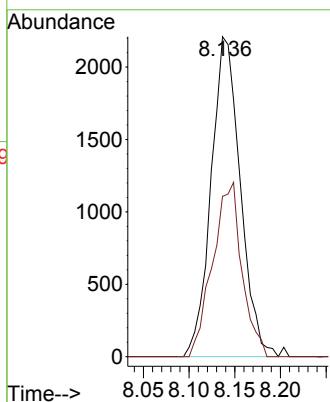
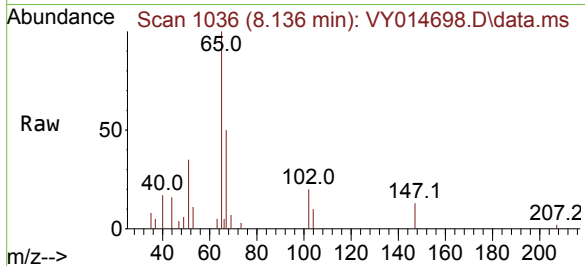




#33
 1,2-Dichloroethane-d4
 Concen: 62.810 ug/l
 RT: 8.136 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: VY014698.D
 Acq: 18 Jul 2023 13:45

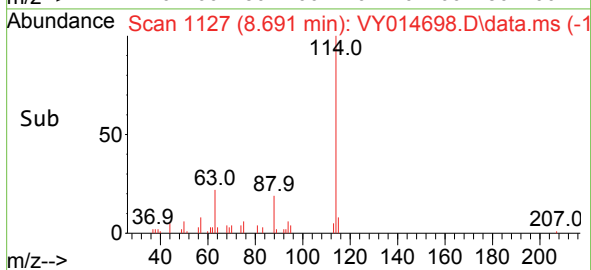
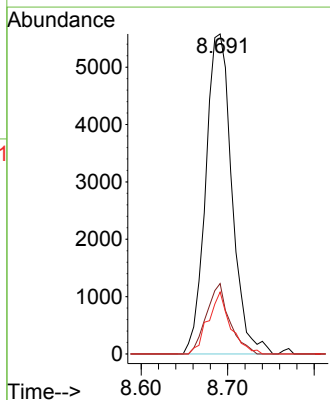
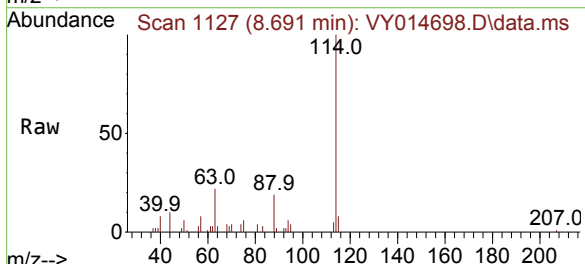
Instrument :
 MSVOA_Y
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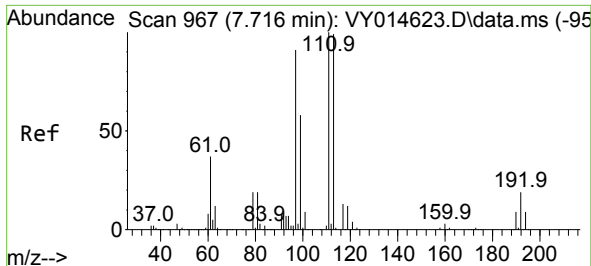
Tgt Ion: 65 Resp: 4905
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.691 min Scan# 1127
 Delta R.T. 0.006 min
 Lab File: VY014698.D
 Acq: 18 Jul 2023 13:45

Tgt Ion: 114 Resp: 11724
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 42.4
 88 19.3 0.0 30.6

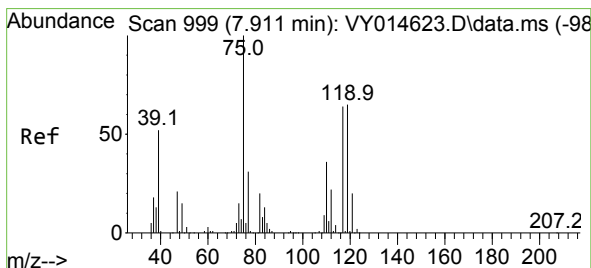
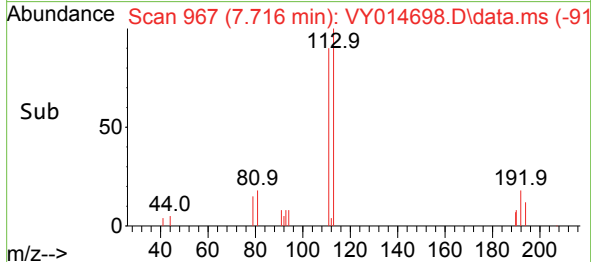
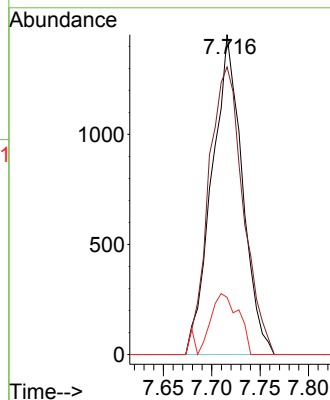
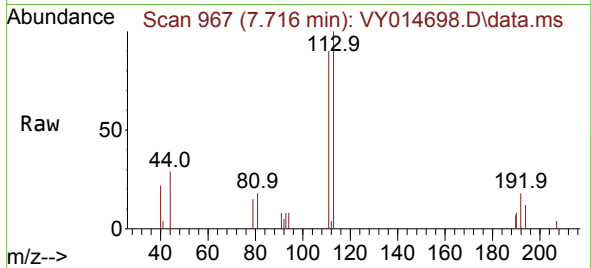




#35
Dibromofluoromethane
Concen: 42.462 ug/l
RT: 7.716 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

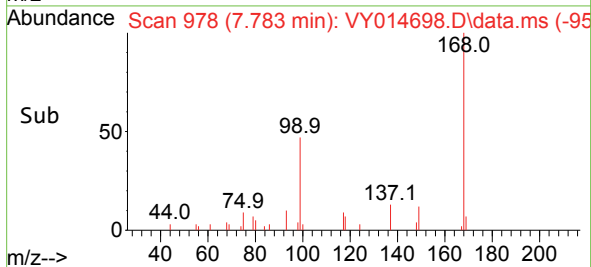
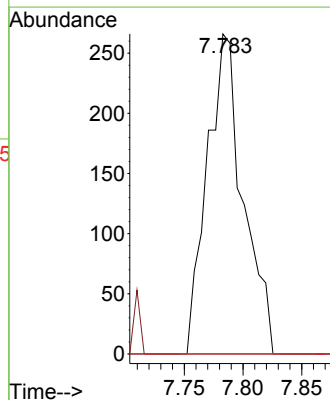
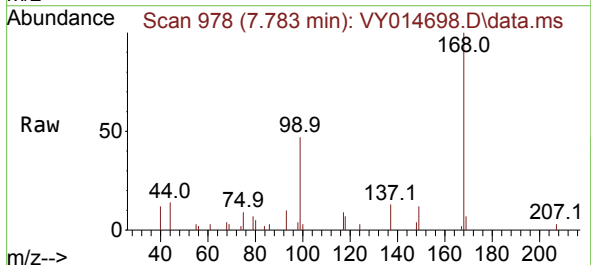
Instrument :
MSVOA_Y
ClientSampleId :
YARD-1

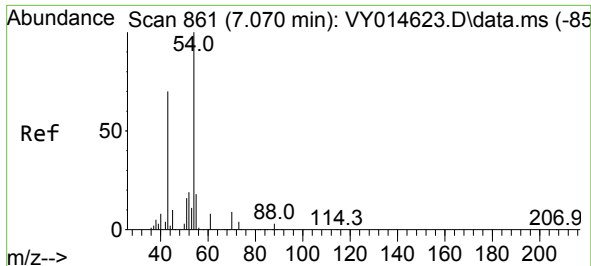
Tgt Ion:113 Resp: 3169
Ion Ratio Lower Upper
113 100
111 102.2 81.3 121.9
192 17.3 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.080 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

Tgt Ion: 75 Resp: 567
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.991 ug/l

RT: 7.039 min Scan# 81

Delta R.T. -0.031 min

Lab File: VY014698.D

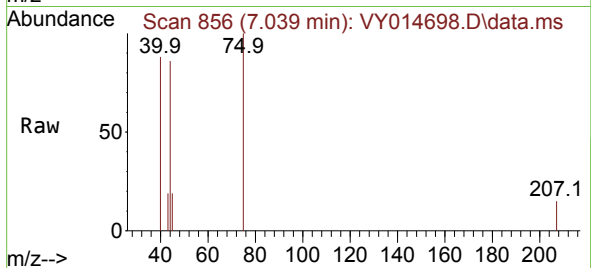
Acq: 18 Jul 2023 13:45

Instrument :

MSVOA_Y

ClientSampleId :

YARD-1



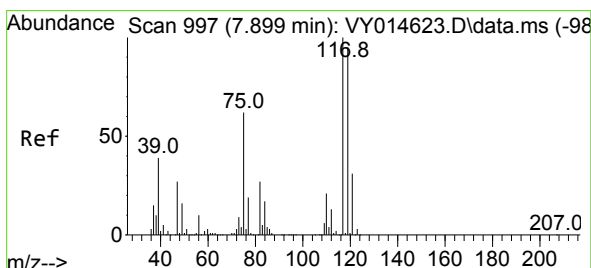
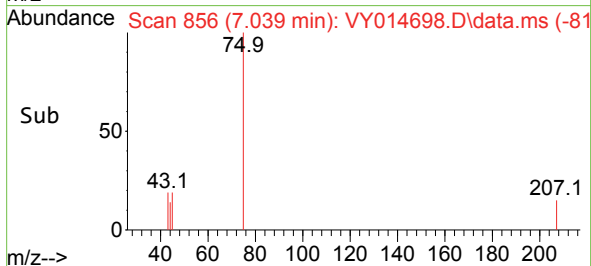
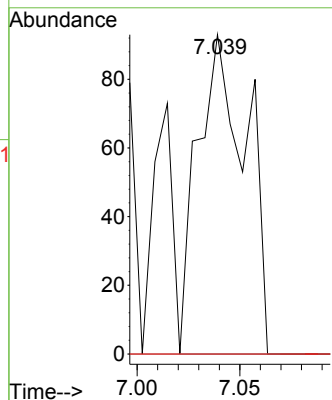
Tgt Ion: 43 Resp: 153

Ion Ratio Lower Upper

43 100

61 0.0 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 5.755 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY014698.D

Acq: 18 Jul 2023 13:45

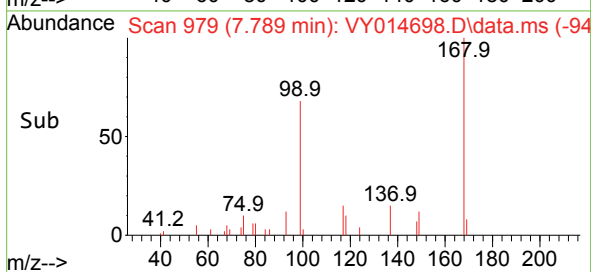
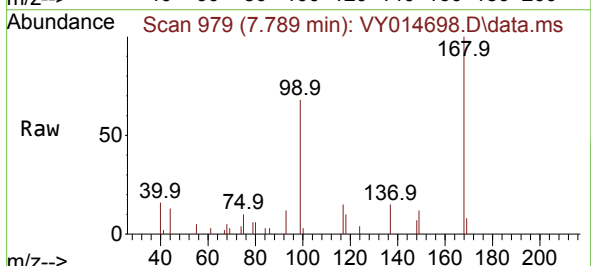
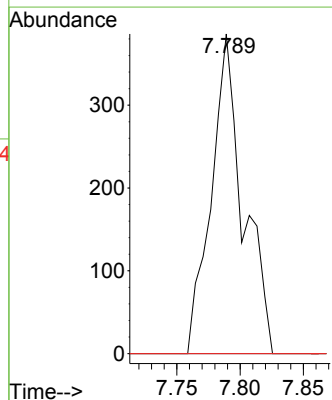
Tgt Ion: 117 Resp: 679

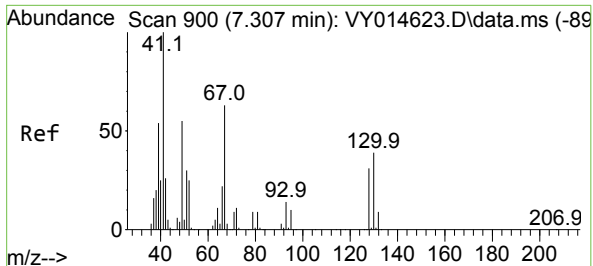
Ion Ratio Lower Upper

117 100

119 0.0 76.4 114.6#

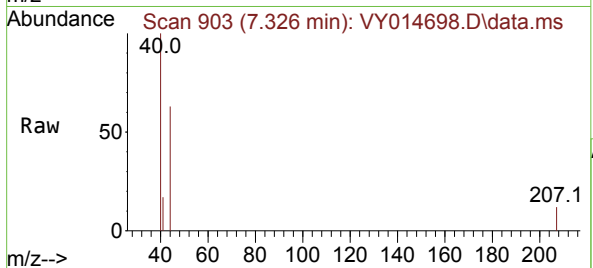
121 0.0 25.8 38.6#



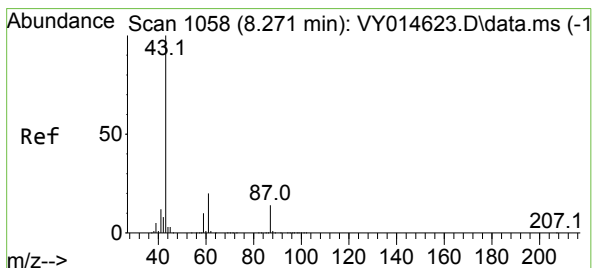
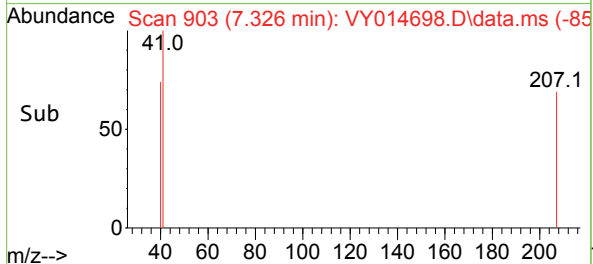
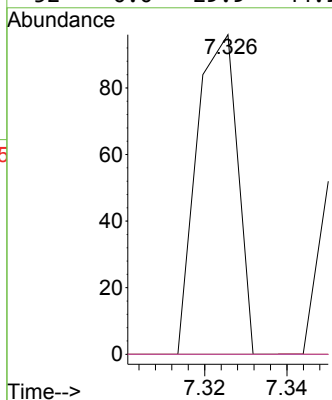


#41
Methacrylonitrile
Concen: 1.670 ug/l
RT: 7.326 min Scan# 903
Delta R.T. 0.019 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

Instrument :
MSVOA_Y
ClientSampleId :
YARD-1

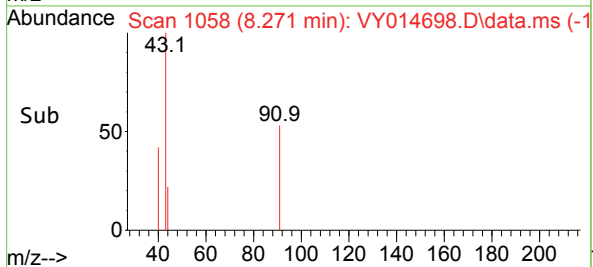
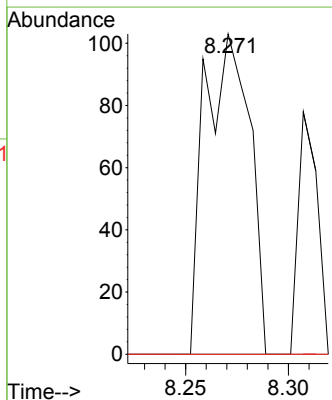
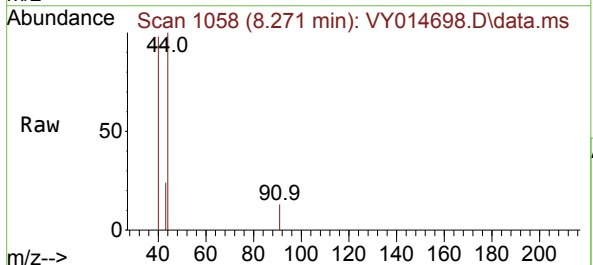


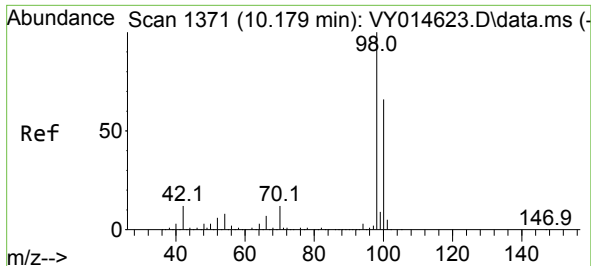
Tgt Ion:	41	Resp:	66
Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.1	78.1#
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#



#43
Isopropyl Acetate
Concen: 1.073 ug/l
RT: 8.271 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

Tgt Ion:	43	Resp:	157
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.1	31.7#
87	0.0	9.8	14.8#

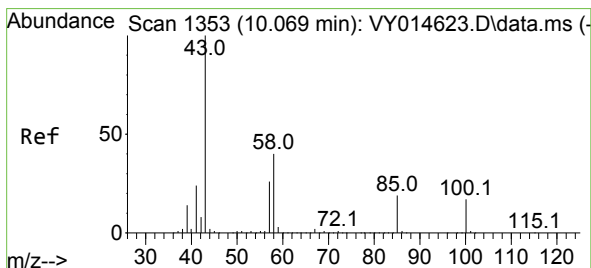
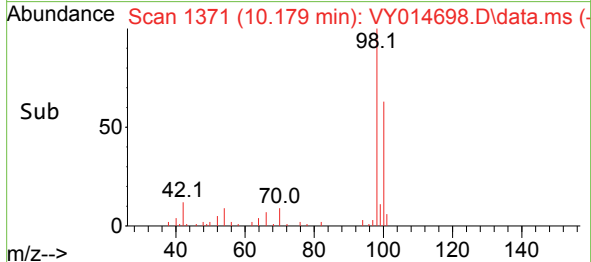
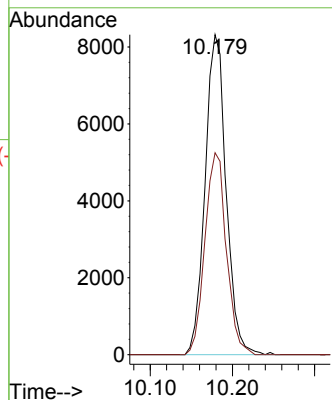
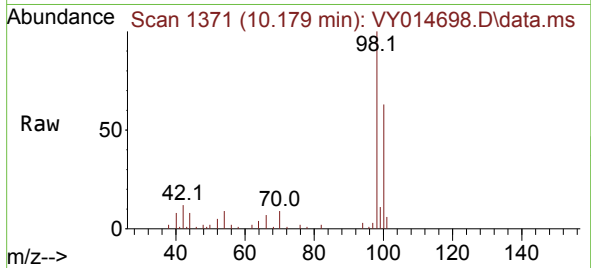




#50
Toluene-d8
Concen: 53.683 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

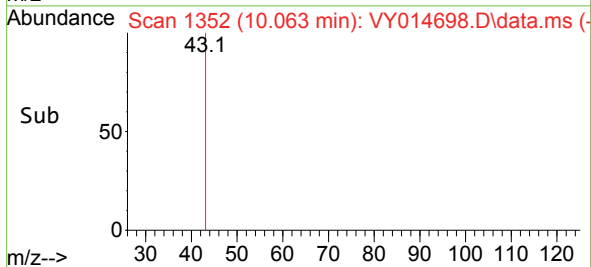
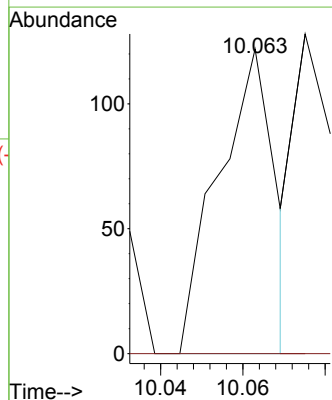
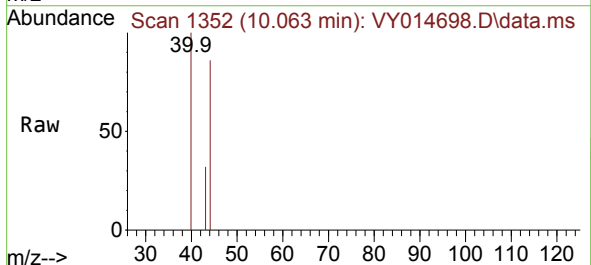
Instrument :
MSVOA_Y
ClientSampleId :
YARD-1

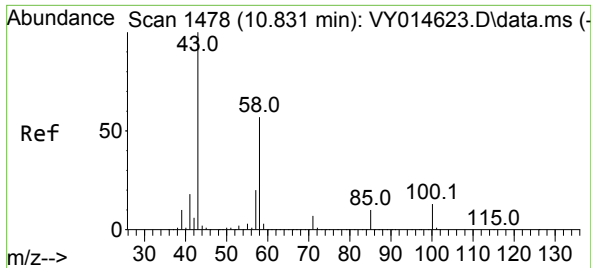
Tgt Ion: 98 Resp: 14771
Ion Ratio Lower Upper
98 100
100 64.5 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 1.535 ug/l
RT: 10.063 min Scan# 1352
Delta R.T. -0.006 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

Tgt Ion: 43 Resp: 118
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#

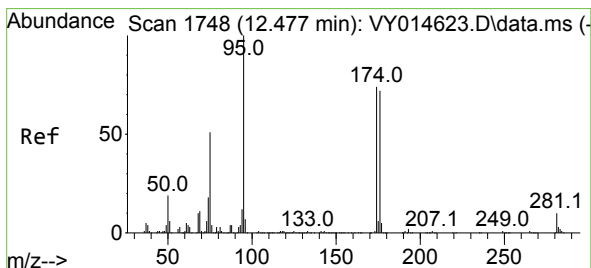
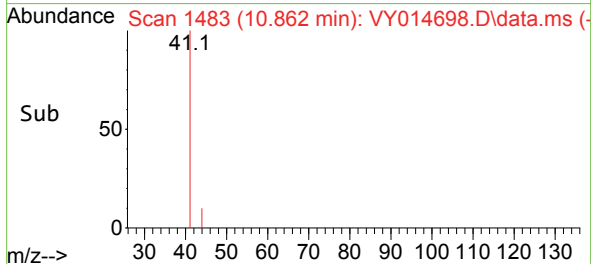
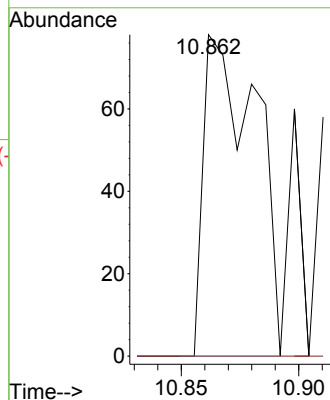
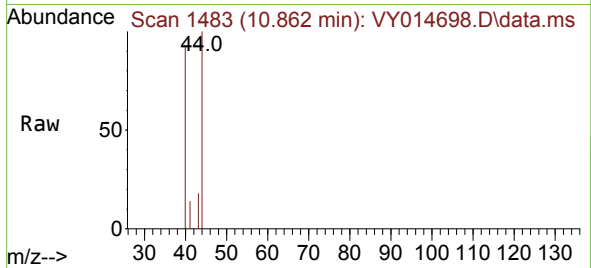




#59
2-Hexanone
Concen: 2.141 ug/l
RT: 10.862 min Scan# 1478
Delta R.T. 0.031 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

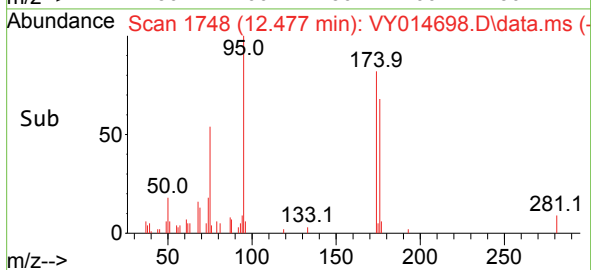
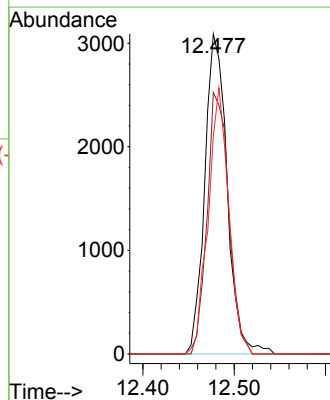
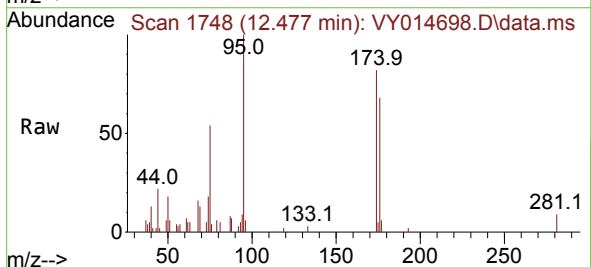
Instrument :
MSVOA_Y
ClientSampleId :
YARD-1

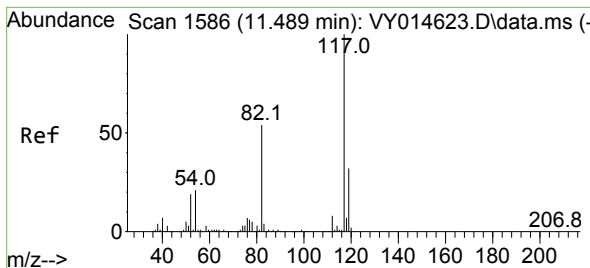
Tgt Ion: 43 Resp: 120
Ion Ratio Lower Upper
43 100
58 0.0 25.1 75.3#



#62
4-Bromofluorobenzene
Concen: 49.723 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

Tgt Ion: 95 Resp: 5246
Ion Ratio Lower Upper
95 100
174 79.5 0.0 178.2
176 76.4 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11741

Delta R.T. 0.001 min

Lab File: VY014698.D

Acq: 18 Jul 2023 13:45

Instrument :

MSVOA_Y

ClientSampleId :

YARD-1

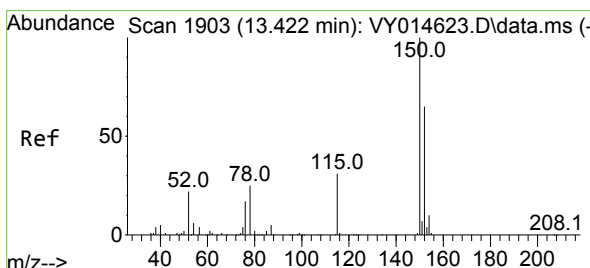
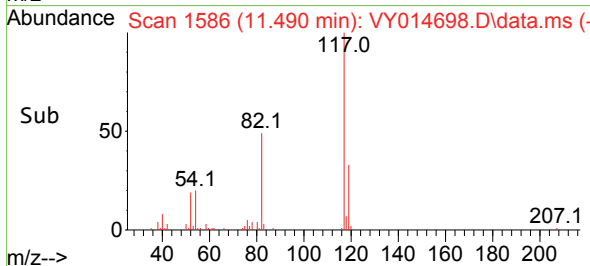
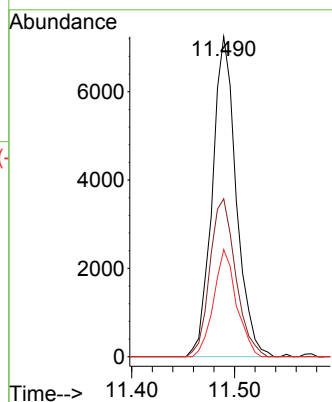
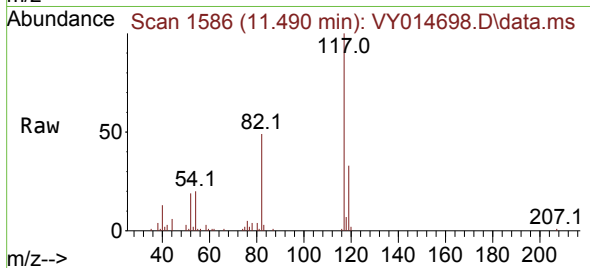
Tgt Ion:117 Resp: 11741

Ion Ratio Lower Upper

117 100

82 49.3 43.4 65.0

119 33.4 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY014698.D

Acq: 18 Jul 2023 13:45

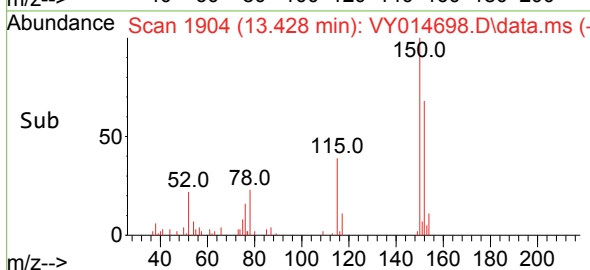
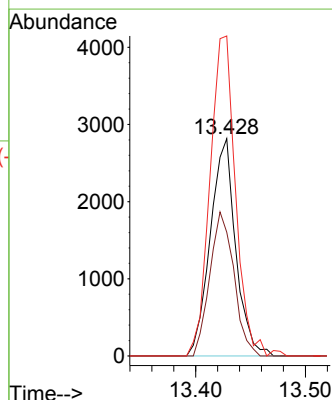
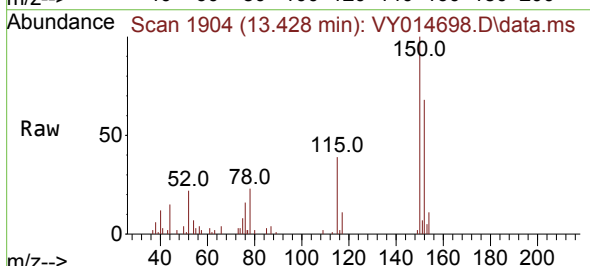
Tgt Ion:152 Resp: 4545

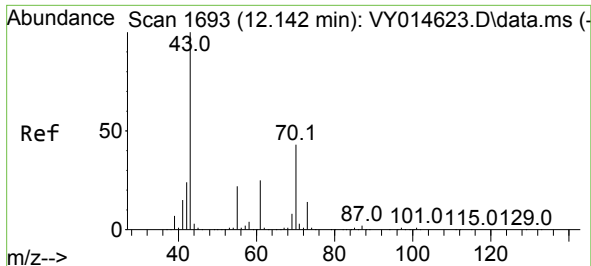
Ion Ratio Lower Upper

152 100

115 62.9 28.8 86.5

150 148.1 0.0 348.8

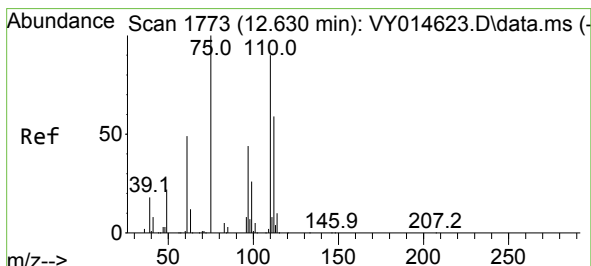
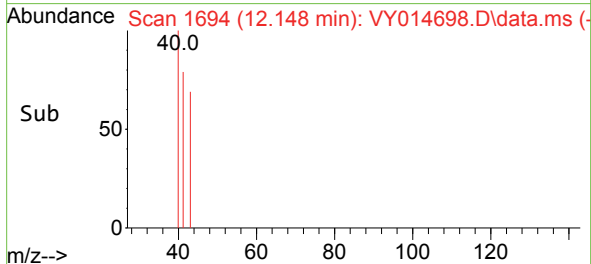
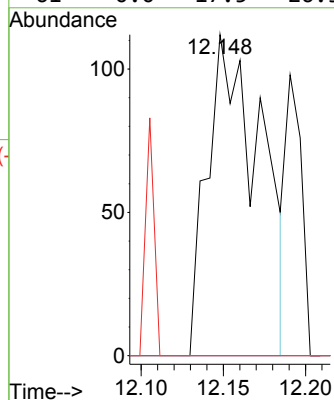
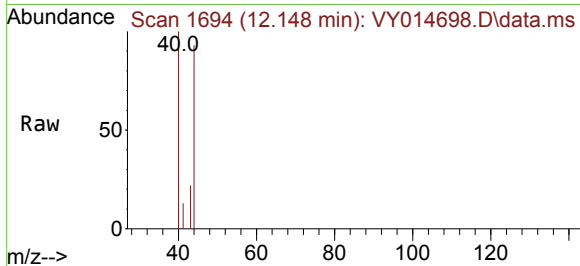




#74
N-amy1 acetate
Concen: 2.114 ug/l
RT: 12.148 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

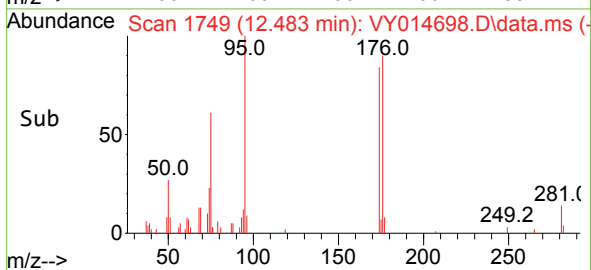
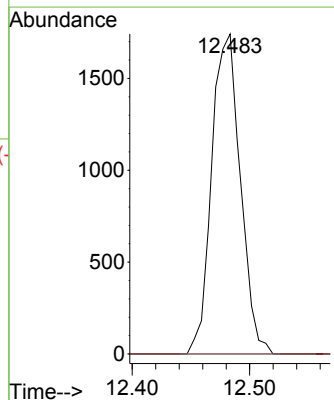
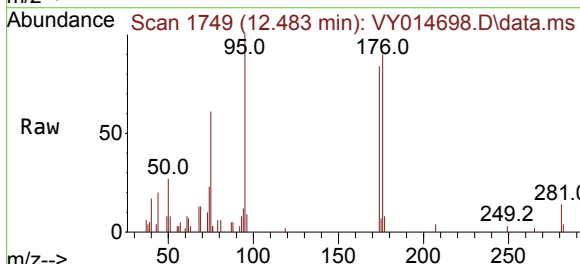
Instrument :
MSVOA_Y
ClientSampleId :
YARD-1

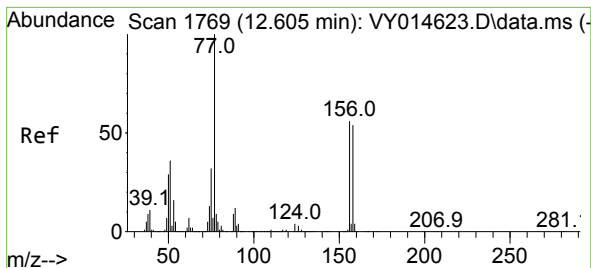
Tgt Ion: 43	Resp:	252
Ion	Ratio	Lower Upper
43	100	
70	0.0	29.7 44.5#
55	0.0	18.3 27.5#
61	0.0	17.5 26.3#



#76
1,2,3-Trichloropropane
Concen: 51.479 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.147 min
Lab File: VY014698.D
Acq: 18 Jul 2023 13:45

Tgt Ion: 75	Resp:	2955
Ion	Ratio	Lower Upper
75	100	
77	0.0	0.0 0.0





#77

Bromobenzene

Concen: 1.268 ug/l

RT: 12.392 min Scan# 11

Delta R.T. -0.213 min

Lab File: VY014698.D

Acq: 18 Jul 2023 13:45

Instrument :

MSVOA_Y

ClientSampleId :

YARD-1

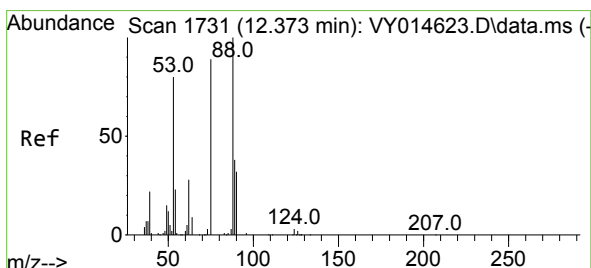
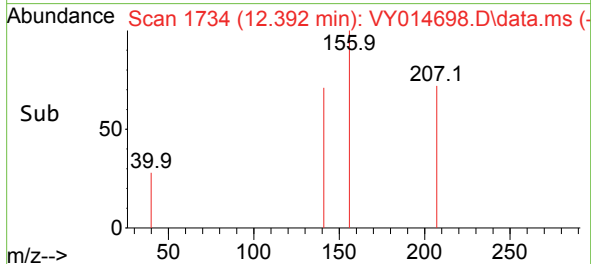
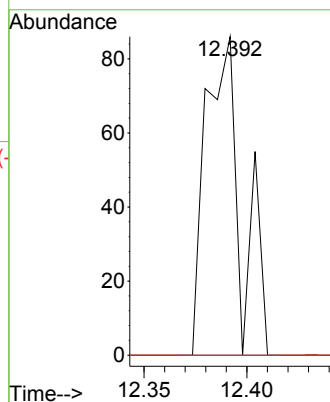
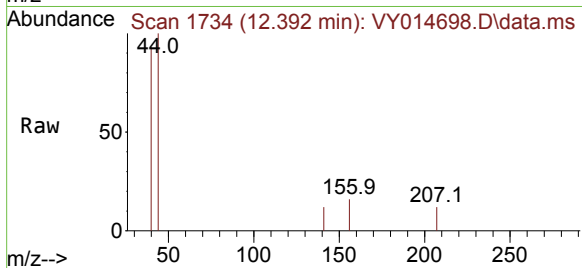
Tgt Ion:156 Resp: 103

Ion Ratio Lower Upper

156 100

77 0.0 92.8 278.6#

158 0.0 48.4 145.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 99.672 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.110 min

Lab File: VY014698.D

Acq: 18 Jul 2023 13:45

Tgt Ion: 75 Resp: 2955

Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.0 37.4 56.0#

