

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071423\
 Data File : VY014644.D
 Acq On : 14 Jul 2023 13:52
 Operator : SY/MD
 Sample : 03601-01
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

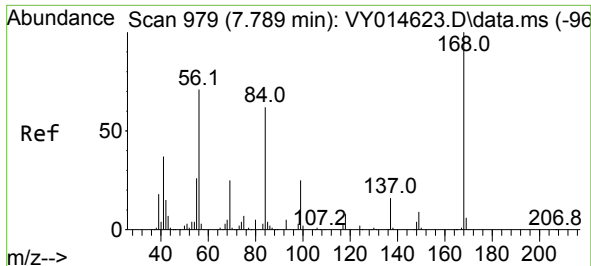
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-1-071223

Quant Time: Jul 14 23:09:35 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	7.782	168	231634	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	398572	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	372487	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	176608	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	143240	54.267	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.540%			
35) Dibromofluoromethane	7.709	113	125167	49.332	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.660%			
50) Toluene-d8	10.178	98	472678	50.531	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.060%			
62) 4-Bromofluorobenzene	12.477	95	178107	49.657	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.320%			
Target Compounds						Qvalue
10) Methyl Iodide	4.088	142	426	2.526	ug/l #	60
11) Tert butyl alcohol	4.923	59	5906	Below Cal	#	97
13) Acrolein	3.728	56	374	1.356	ug/l #	53
16) Acetone	3.942	43	1647	1.969	ug/l #	86
20) Methylene Chloride	4.704	84	23237	4.728	ug/l	90
25) 2-Butanone	6.978	43	4741	3.874	ug/l #	82
26) 2,2-Dichloropropane	6.972	77	5868	1.307	ug/l #	55
29) Tetrahydrofuran	7.344	42	1007	1.336	ug/l #	57
31) Cyclohexane	7.782	56	6316	1.441	ug/l #	1
36) 1,1-Dichloropropene	7.782	75	18366	4.840	ug/l #	49
37) Ethyl Acetate	6.978	43	4741	1.815	ug/l #	1
38) Carbon Tetrachloride	7.782	117	22741	5.670	ug/l #	17
39) Methylcyclohexane	9.179	83	13428	2.716	ug/l	97
55) 1,1,2-Trichloroethane	10.617	97	7899	3.317	ug/l #	20
56) Ethyl methacrylate	10.514	69	3874	1.066	ug/l #	37
59) 2-Hexanone	10.794	43	13048	6.848	ug/l #	33
74) N-amyl acetate	12.117	43	14077	3.039	ug/l #	60
76) 1,2,3-Trichloropropane	12.477	75	91827	41.169	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.806	105	17999	1.559	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.477	75	91827	79.710	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	26882	2.372	ug/l	98

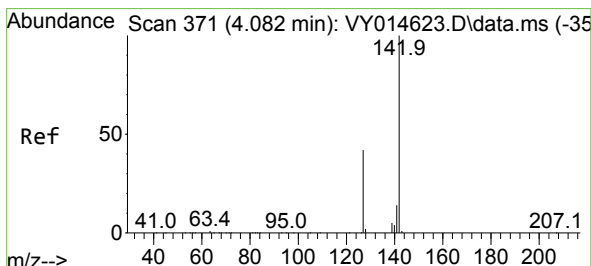
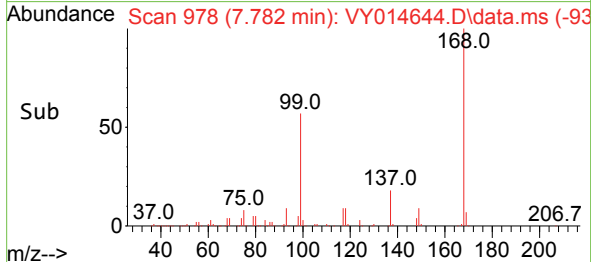
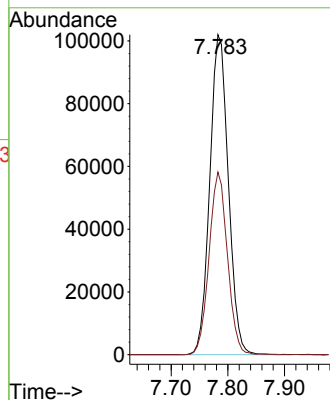
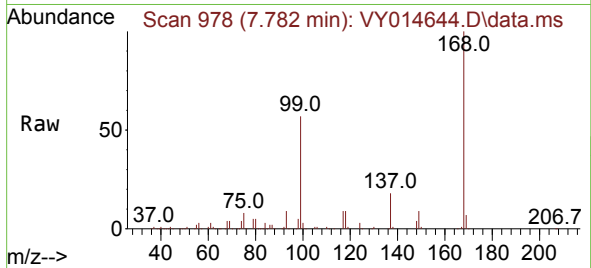
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.782 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

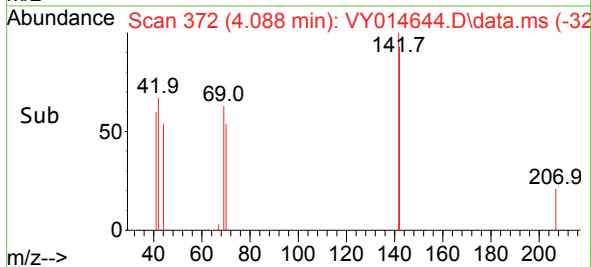
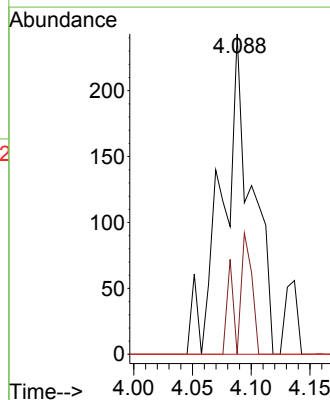
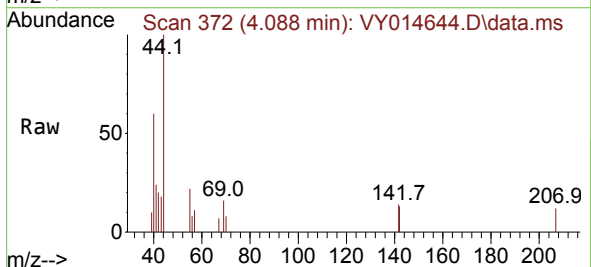
Instrument :
MSVOA_Y
ClientSampleId :
HR-1-071223

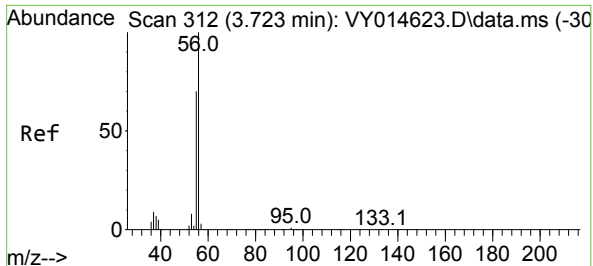
Tgt Ion:168 Resp: 231634
Ion Ratio Lower Upper
168 100
99 57.0 43.4 65.0



#10
Methyl Iodide
Concen: 2.526 ug/l
RT: 4.088 min Scan# 372
Delta R.T. 0.006 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Tgt Ion:142 Resp: 426
Ion Ratio Lower Upper
142 100
127 19.5 37.6 56.4#
141 0.0 11.8 17.8#





#13

Acrolein

Concen: 1.356 ug/l

RT: 3.728 min Scan# 312

Delta R.T. 0.005 min

Lab File: VY014644.D

Acq: 14 Jul 2023 13:52

Instrument :

MSVOA_Y

ClientSampleId :

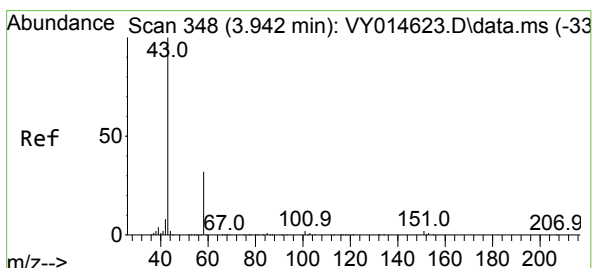
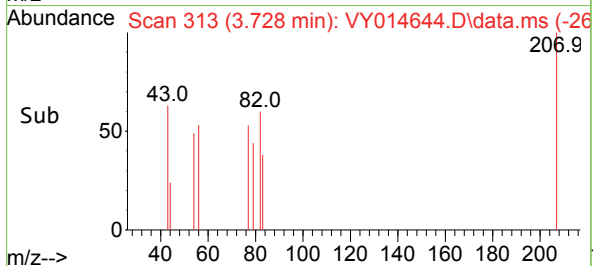
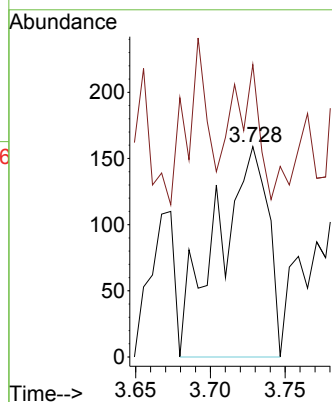
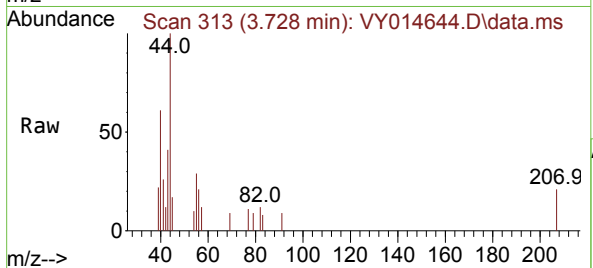
HR-1-071223

Tgt Ion: 56 Resp: 374

Ion Ratio Lower Upper

56 100

55 32.4 57.0 85.4#



#16

Acetone

Concen: 1.969 ug/l

RT: 3.942 min Scan# 348

Delta R.T. -0.000 min

Lab File: VY014644.D

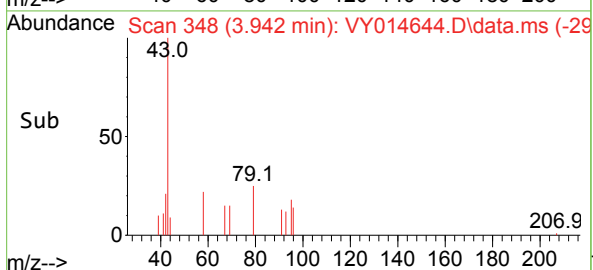
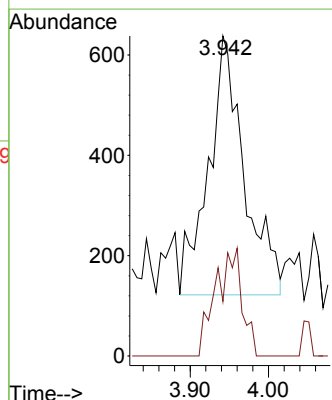
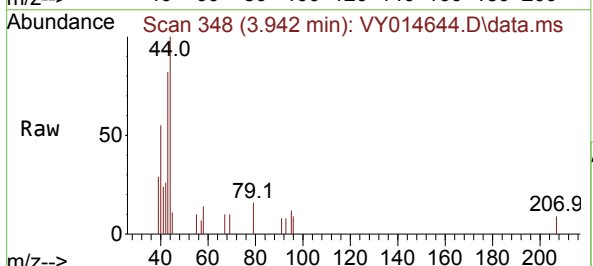
Acq: 14 Jul 2023 13:52

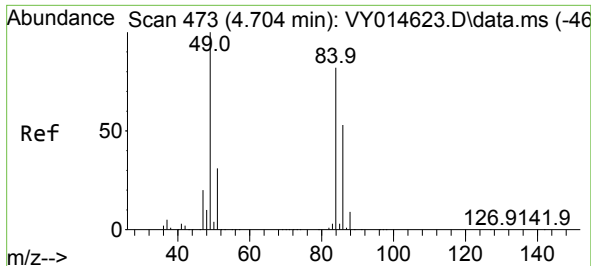
Tgt Ion: 43 Resp: 1647

Ion Ratio Lower Upper

43 100

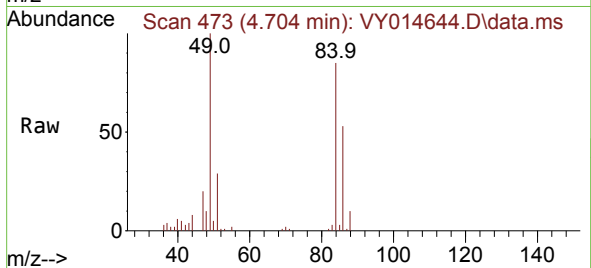
58 21.1 22.7 34.1#



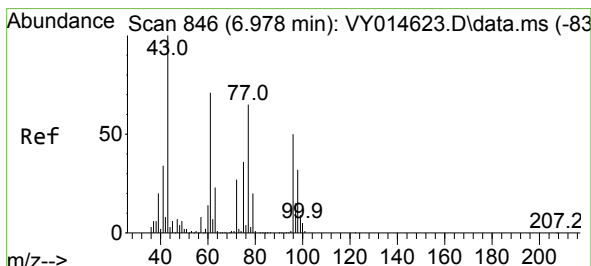
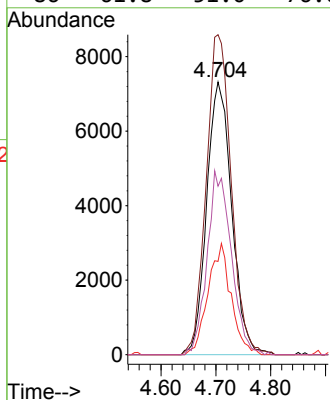
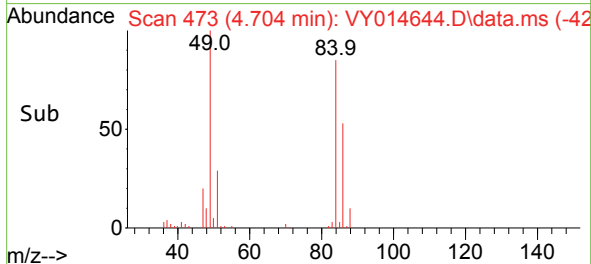


#20
Methylene Chloride
Concen: 4.728 ug/l
RT: 4.704 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Instrument :
MSVOA_Y
ClientSampleId :
HR-1-071223

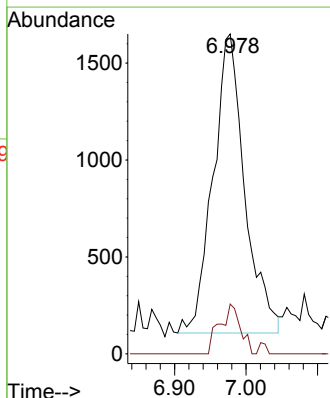
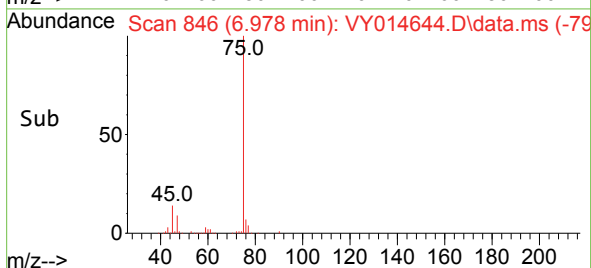
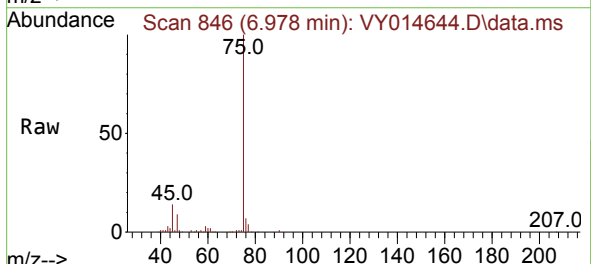


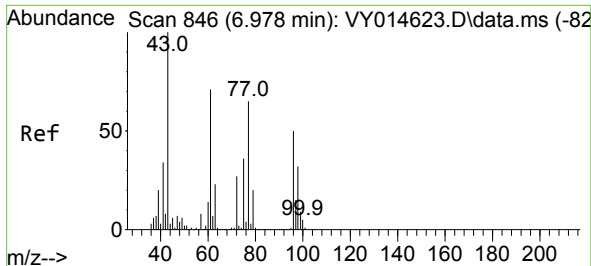
Tgt Ion:	84	Resp:	23237
Ion	Ratio	Lower	Upper
84	100		
49	117.4	106.9	160.3
51	34.2	33.2	49.8
86	61.8	51.0	76.6



#25
2-Butanone
Concen: 3.874 ug/l
RT: 6.978 min Scan# 846
Delta R.T. -0.000 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

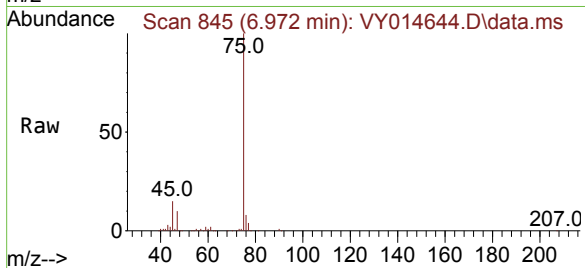
Tgt Ion:	43	Resp:	4741
Ion	Ratio	Lower	Upper
43	100		
72	16.7	20.5	30.7#



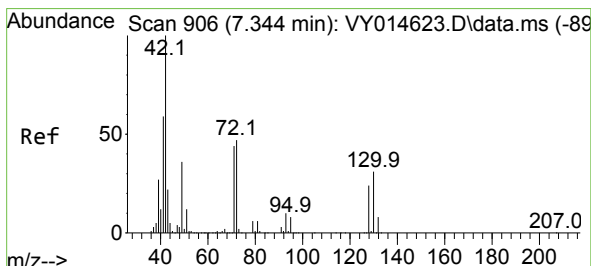
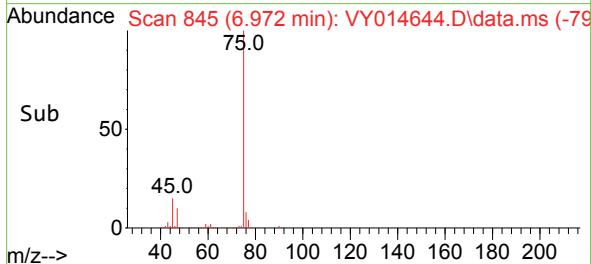
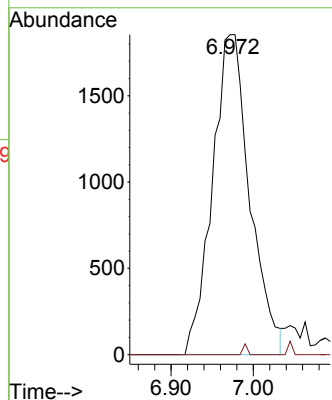


#26
2,2-Dichloropropane
Concen: 1.307 ug/l
RT: 6.972 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Instrument :
MSVOA_Y
ClientSampleId :
HR-1-071223

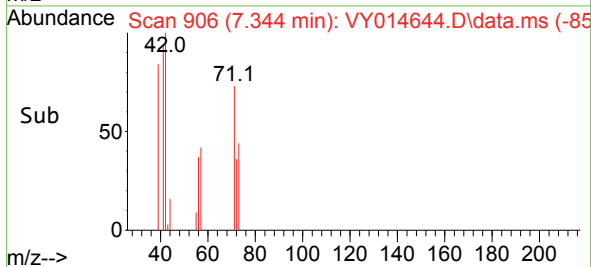
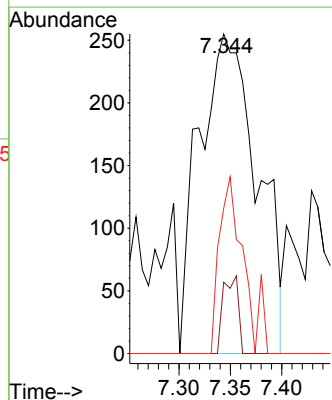
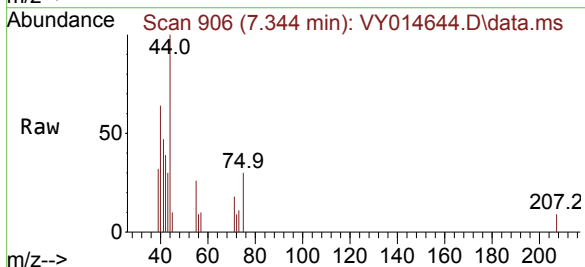


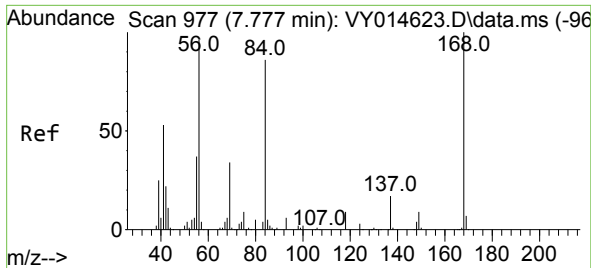
Tgt Ion: 77 Resp: 5868
Ion Ratio Lower Upper
77 100
97 0.4 10.9 32.9#



#29
Tetrahydrofuran
Concen: 1.336 ug/l
RT: 7.344 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Tgt Ion: 42 Resp: 1007
Ion Ratio Lower Upper
42 100
72 6.3 32.8 49.2#
71 20.8 31.0 46.4#

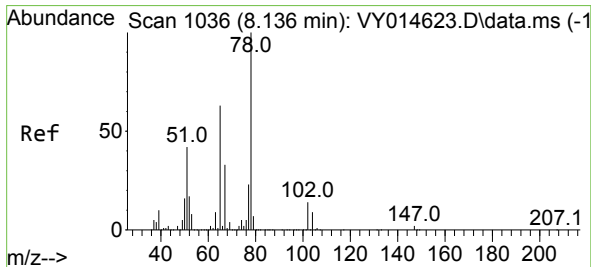
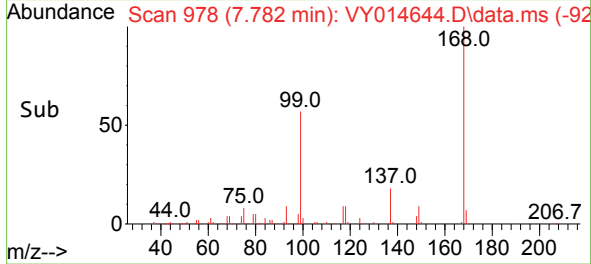
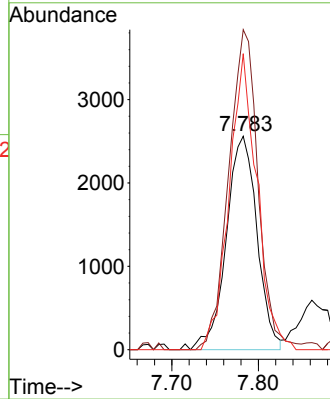
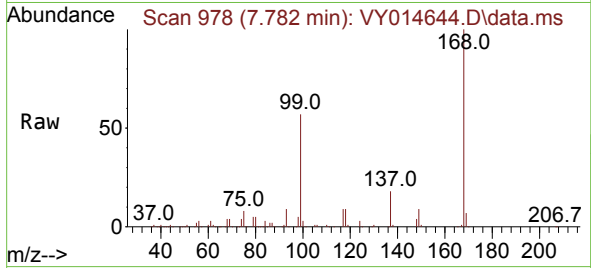




#31
Cyclohexane
Concen: 1.441 ug/l
RT: 7.782 min Scan# 91
Delta R.T. 0.005 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

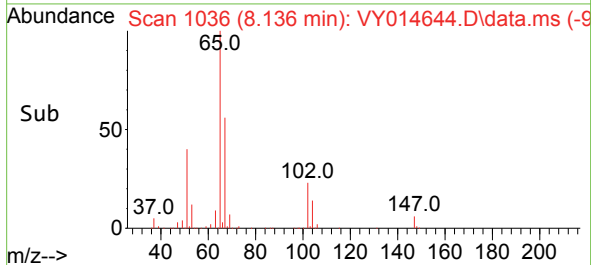
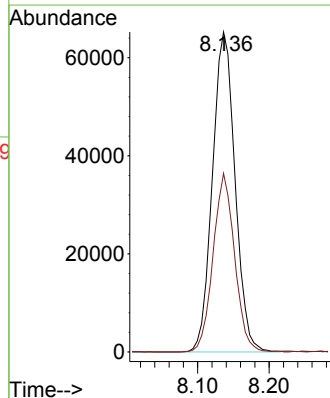
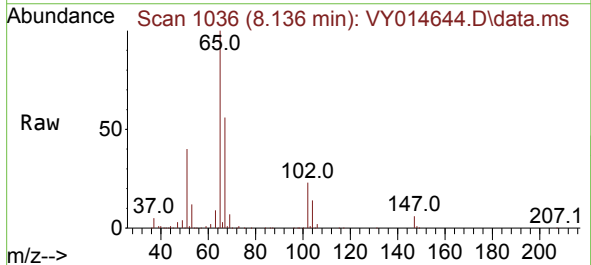
Instrument :
MSVOA_Y
ClientSampleId :
HR-1-071223

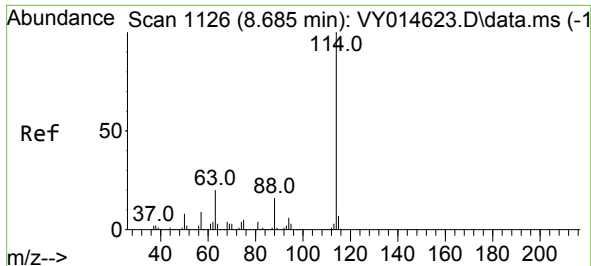
Tgt Ion: 56 Resp: 6316
Ion Ratio Lower Upper
56 100
69 150.0 27.8 41.6#
84 138.7 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 54.267 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Tgt Ion: 65 Resp: 143240
Ion Ratio Lower Upper
65 100
67 53.2 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VY014644.D

Acq: 14 Jul 2023 13:52

Instrument :

MSVOA_Y

ClientSampleId :

HR-1-071223

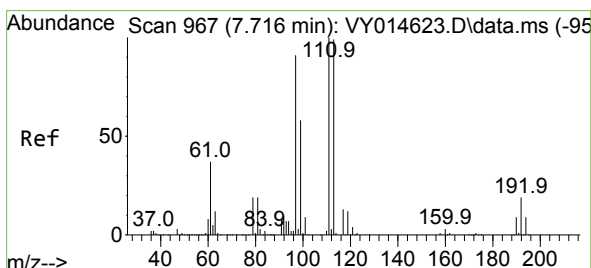
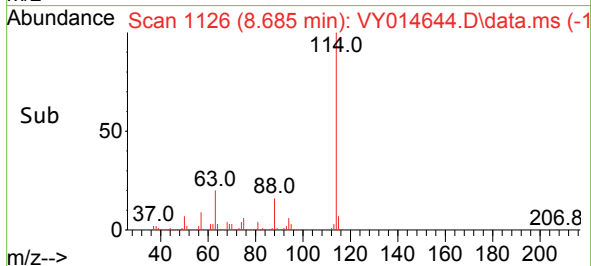
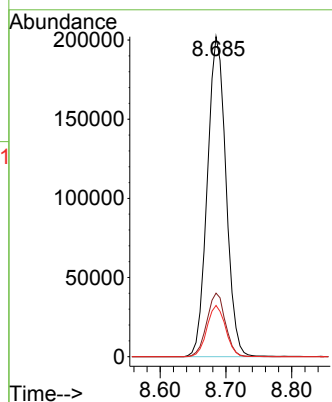
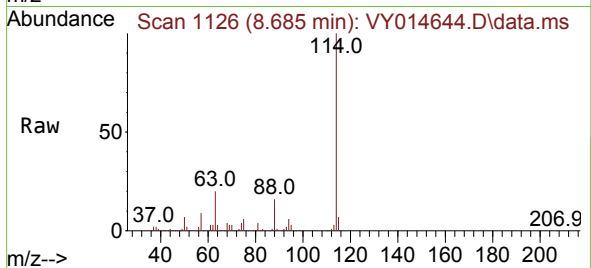
Tgt Ion:114 Resp: 398572

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.4

88 16.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.332 ug/l

RT: 7.709 min Scan# 966

Delta R.T. -0.007 min

Lab File: VY014644.D

Acq: 14 Jul 2023 13:52

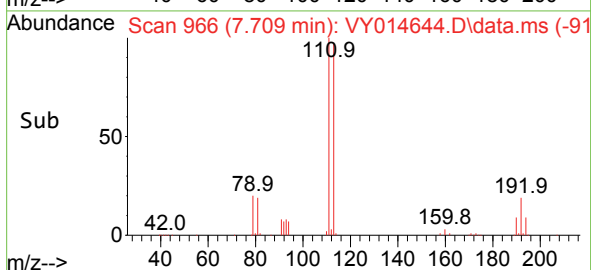
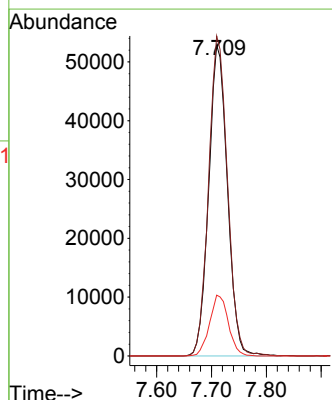
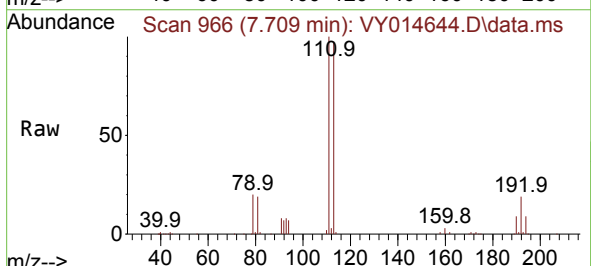
Tgt Ion:113 Resp: 125167

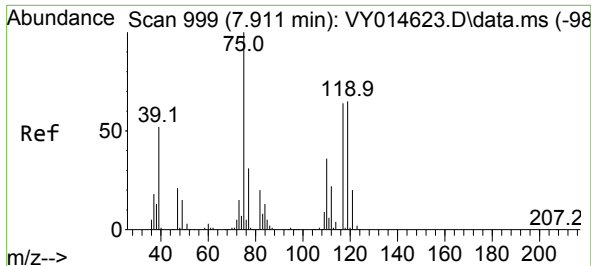
Ion Ratio Lower Upper

113 100

111 103.5 81.3 121.9

192 19.6 16.9 25.3

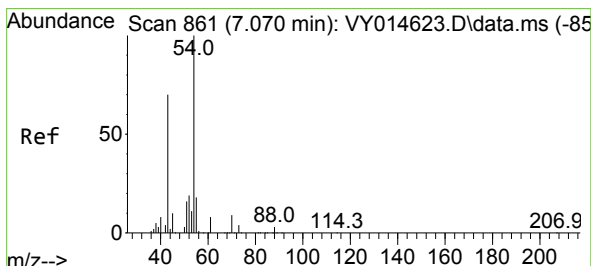
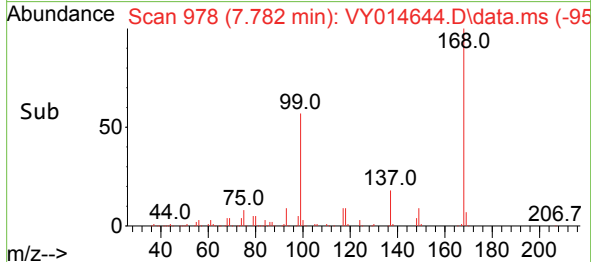
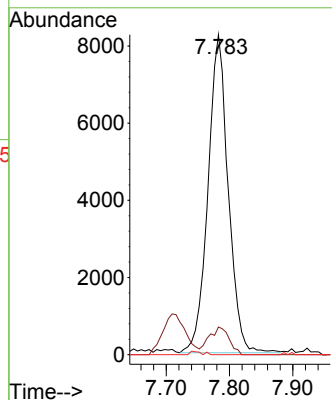
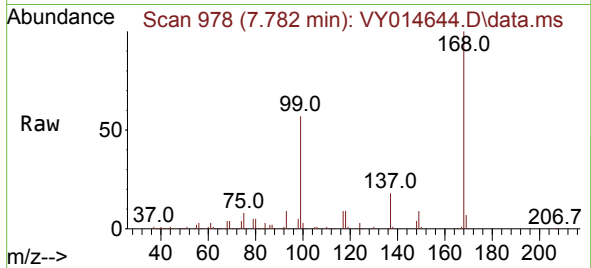




#36
1,1-Dichloropropene
Concen: 4.840 ug/l
RT: 7.782 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

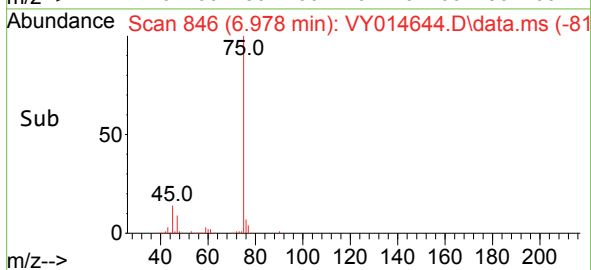
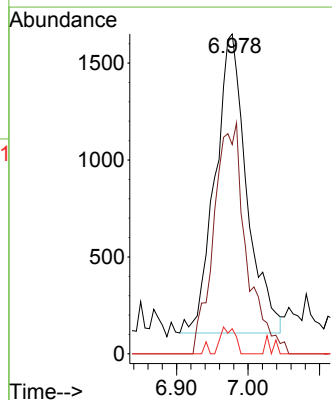
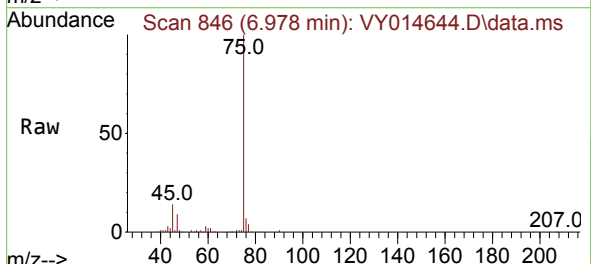
Instrument :
MSVOA_Y
ClientSampleId :
HR-1-071223

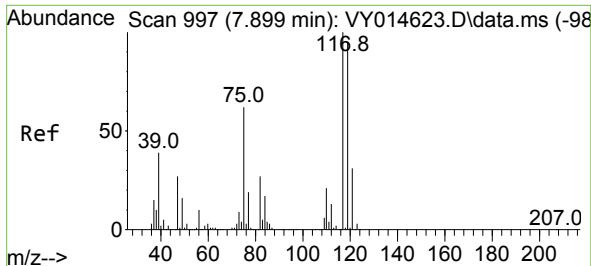
Tgt Ion: 75 Resp: 18366
Ion Ratio Lower Upper
75 100
110 8.6 17.8 53.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 1.815 ug/l
RT: 6.978 min Scan# 846
Delta R.T. -0.092 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Tgt Ion: 43 Resp: 4741
Ion Ratio Lower Upper
43 100
61 78.8 10.1 15.1#
70 4.1 7.1 10.7#

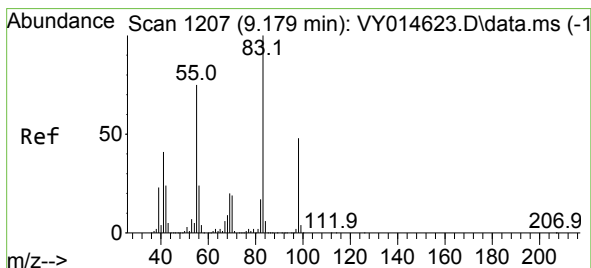
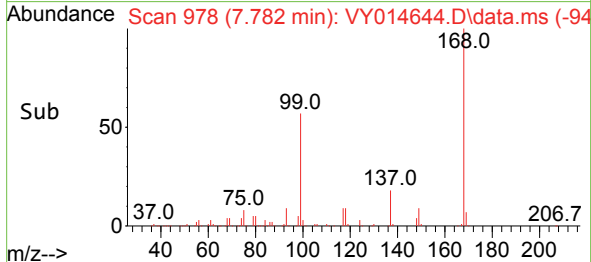
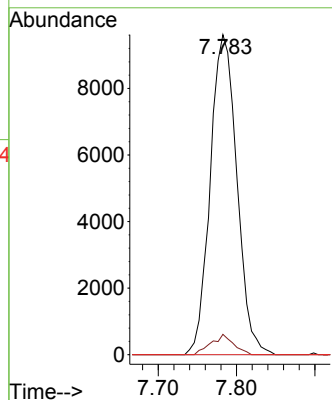
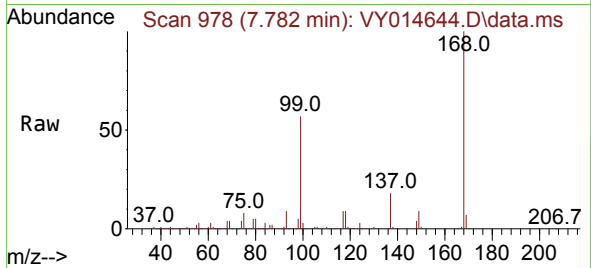




#38
Carbon Tetrachloride
Concen: 5.670 ug/l
RT: 7.782 min Scan# 91
Delta R.T. -0.117 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

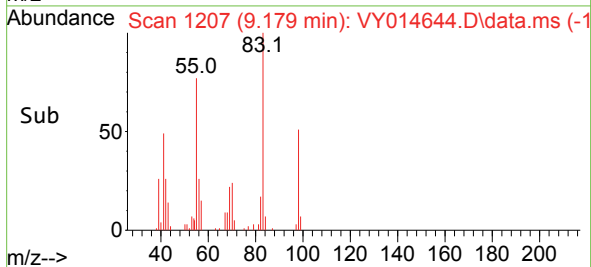
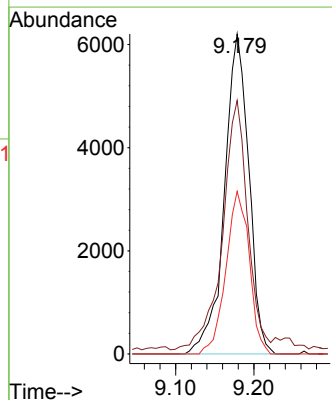
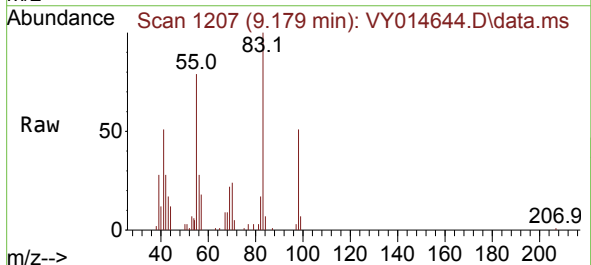
Instrument :
MSVOA_Y
ClientSampleId :
HR-1-071223

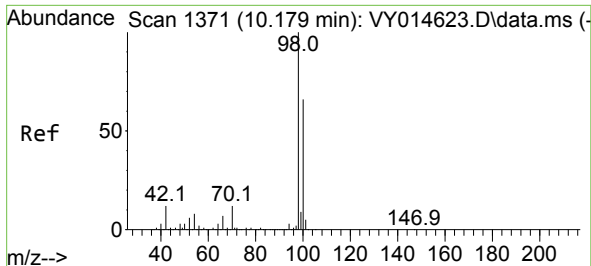
Tgt Ion:117 Resp: 22741
Ion Ratio Lower Upper
117 100
119 6.3 76.4 114.6#
121 0.0 25.8 38.6#



#39
Methylcyclohexane
Concen: 2.716 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. -0.000 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Tgt Ion: 83 Resp: 13428
Ion Ratio Lower Upper
83 100
55 77.0 63.0 94.4
98 50.8 37.4 56.2

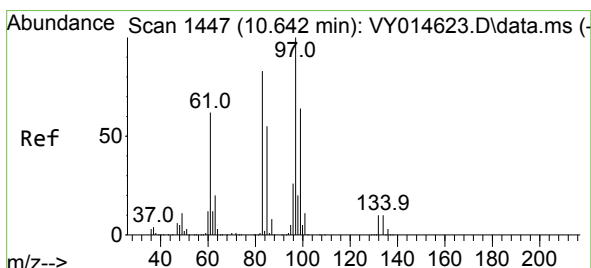
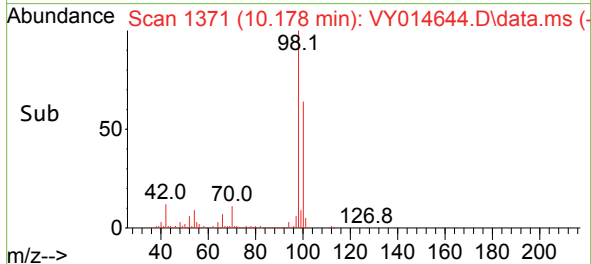
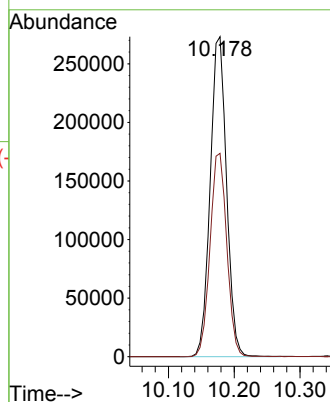
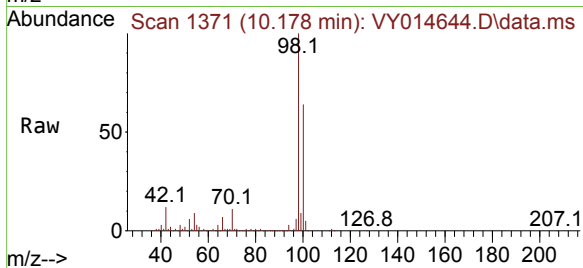




#50
Toluene-d8
Concen: 50.531 ug/l
RT: 10.178 min Scan# 11
Delta R.T. -0.001 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

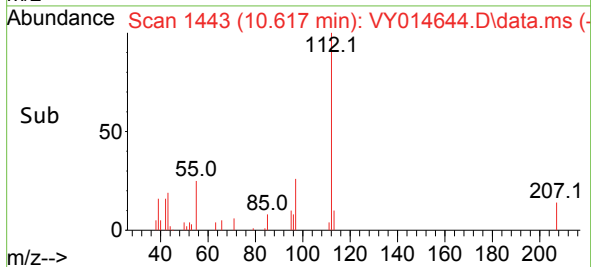
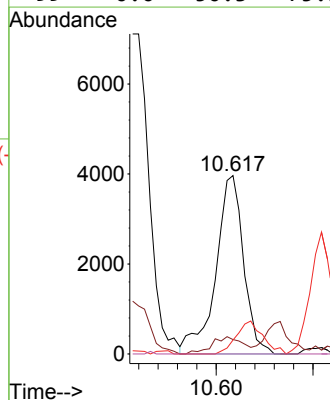
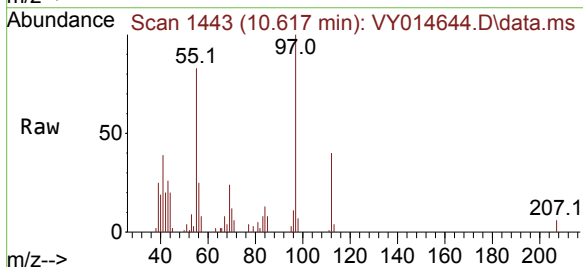
Instrument :
MSVOA_Y
ClientSampleId :
HR-1-071223

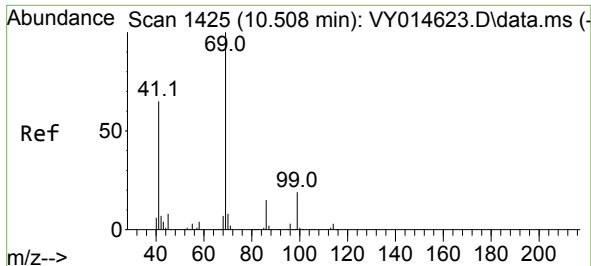
Tgt Ion: 98 Resp: 472678
Ion Ratio Lower Upper
98 100
100 65.0 50.1 75.1



#55
1,1,2-Trichloroethane
Concen: 3.317 ug/l
RT: 10.617 min Scan# 1443
Delta R.T. -0.025 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Tgt Ion: 97 Resp: 7899
Ion Ratio Lower Upper
97 100
83 8.1 72.0 108.0#
85 7.8 45.4 68.0#
99 0.0 50.3 75.5#

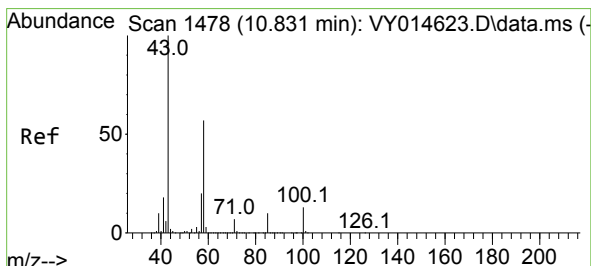
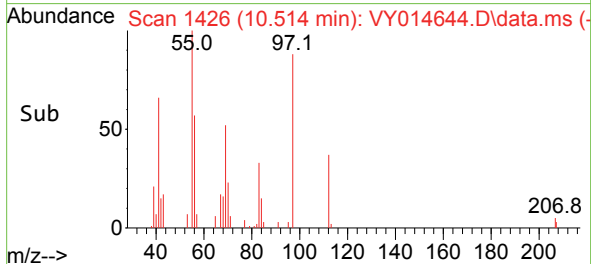
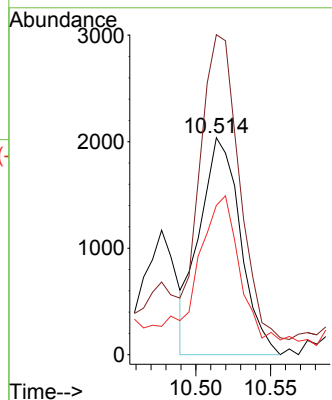
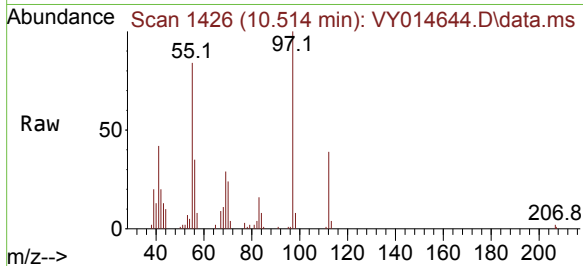




#56
Ethyl methacrylate
Concen: 1.066 ug/l
RT: 10.514 min Scan# 1425
Delta R.T. 0.006 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

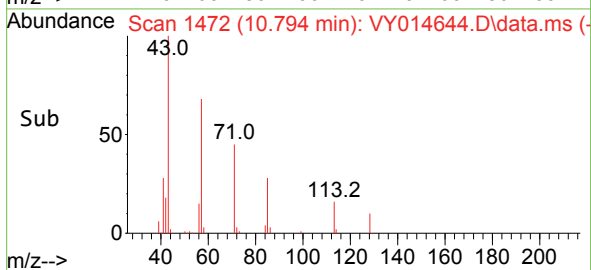
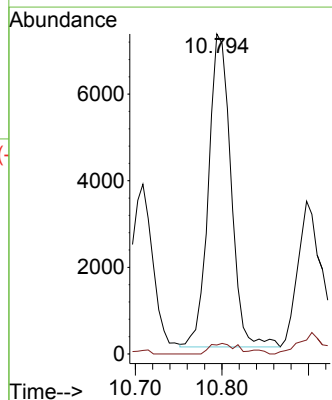
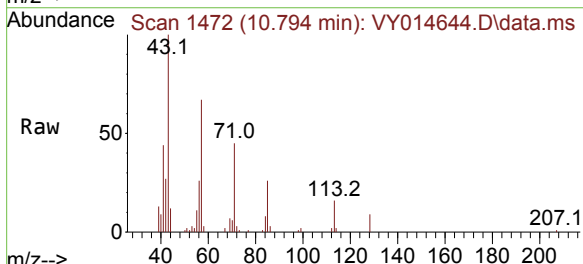
Instrument :
MSVOA_Y
ClientSampleId :
HR-1-071223

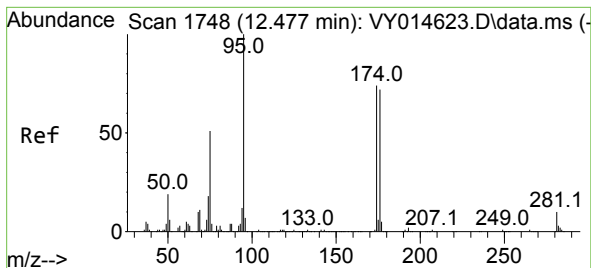
Tgt Ion: 69 Resp: 3874
Ion Ratio Lower Upper
69 100
41 132.9 57.6 86.4#
39 72.1 34.1 51.1#



#59
2-Hexanone
Concen: 6.848 ug/l
RT: 10.794 min Scan# 1472
Delta R.T. -0.037 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Tgt Ion: 43 Resp: 13048
Ion Ratio Lower Upper
43 100
58 4.0 25.1 75.3#

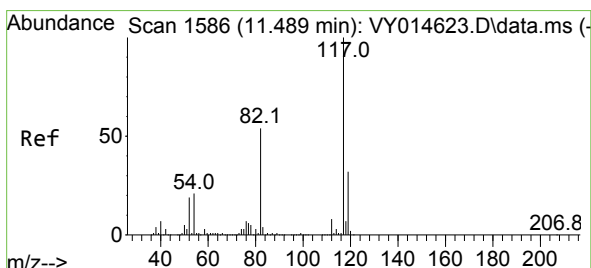
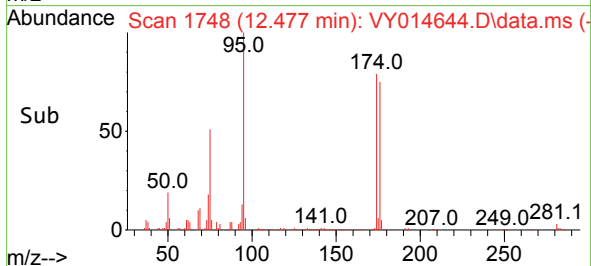
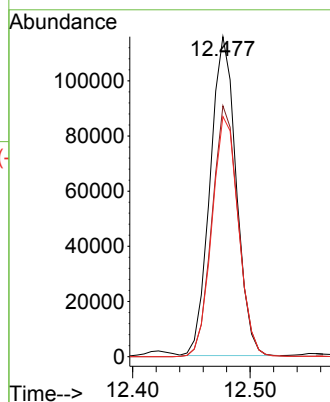
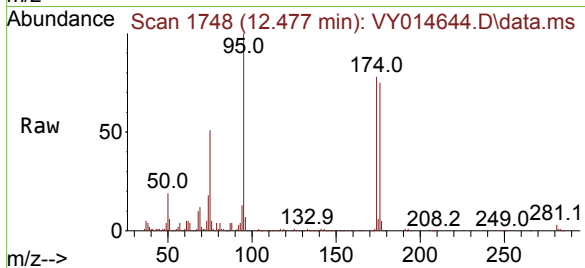




#62
4-Bromofluorobenzene
Concen: 49.657 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

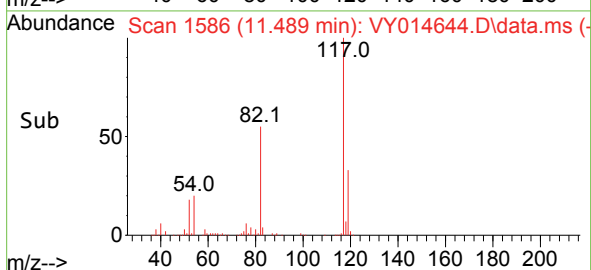
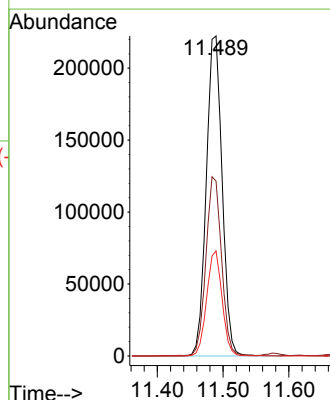
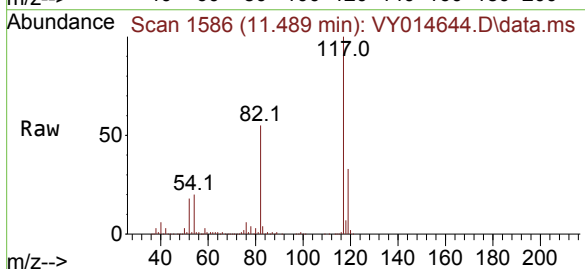
Instrument :
MSVOA_Y
ClientSampleId :
HR-1-071223

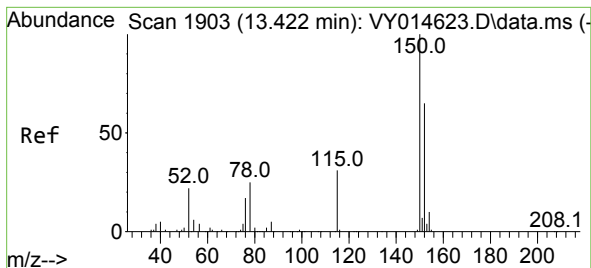
Tgt Ion: 95 Resp: 178107
Ion Ratio Lower Upper
95 100
174 78.9 0.0 178.2
176 77.0 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Tgt Ion: 117 Resp: 372487
Ion Ratio Lower Upper
117 100
82 54.5 43.4 65.0
119 32.8 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.000 min

Lab File: VY014644.D

Acq: 14 Jul 2023 13:52

Instrument :

MSVOA_Y

ClientSampleId :

HR-1-071223

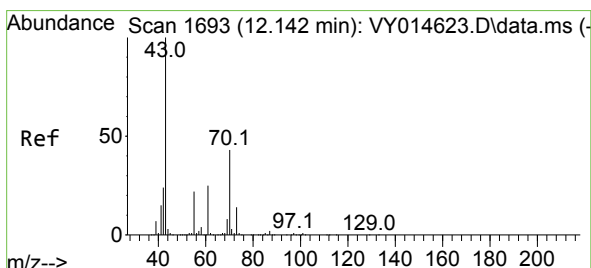
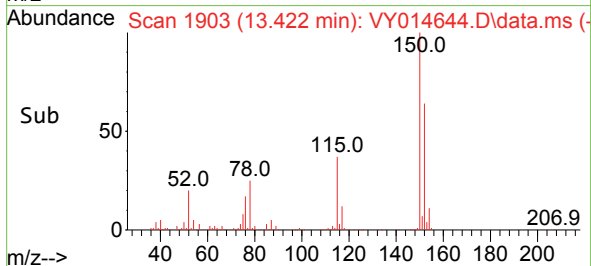
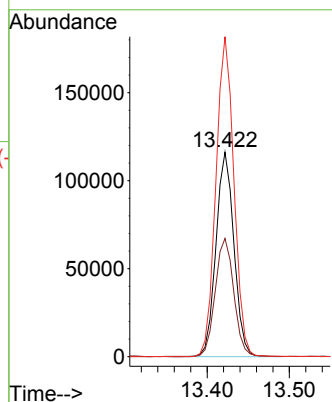
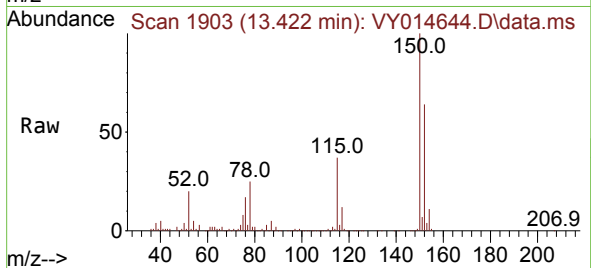
Tgt Ion:152 Resp: 176608

Ion Ratio Lower Upper

152 100

115 59.6 28.8 86.5

150 156.6 0.0 348.8



#74

N-ethyl acetate

Concen: 3.039 ug/l

RT: 12.117 min Scan# 1689

Delta R.T. -0.025 min

Lab File: VY014644.D

Acq: 14 Jul 2023 13:52

Tgt Ion: 43 Resp: 14077

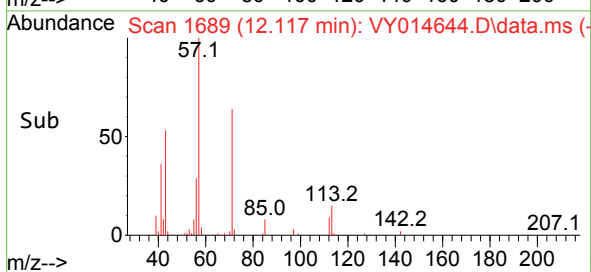
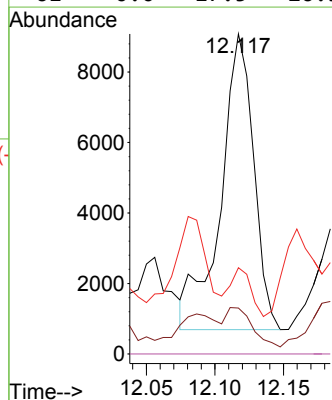
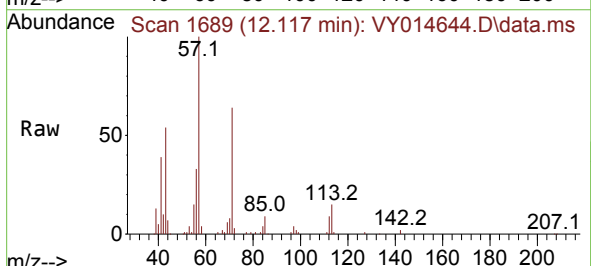
Ion Ratio Lower Upper

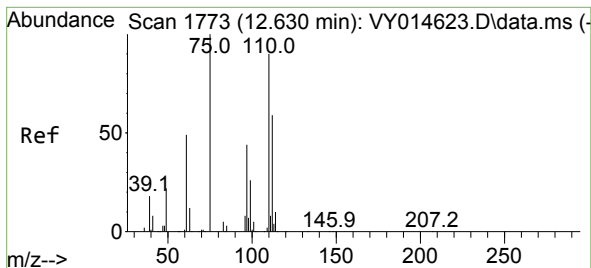
43 100

70 10.0 29.7 44.5#

55 10.0 18.3 27.5#

61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 41.169 ug/l

RT: 12.477 min Scan# 11

Delta R.T. -0.153 min

Lab File: VY014644.D

Acq: 14 Jul 2023 13:52

Instrument :

MSVOA_Y

ClientSampleId :

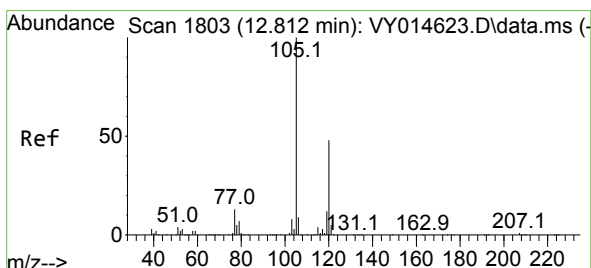
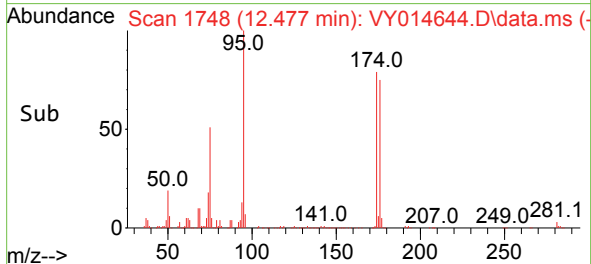
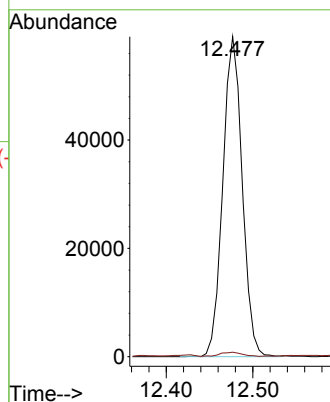
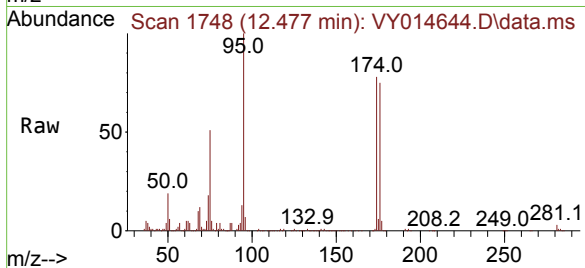
HR-1-071223

Tgt Ion: 75 Resp: 91827

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 1.559 ug/l

RT: 12.806 min Scan# 1802

Delta R.T. -0.006 min

Lab File: VY014644.D

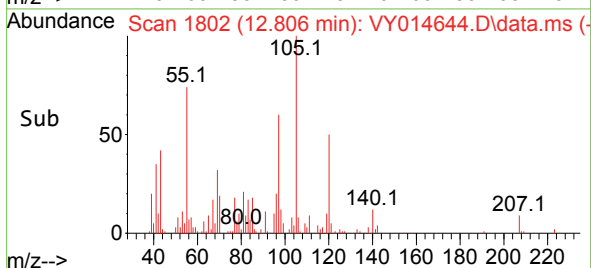
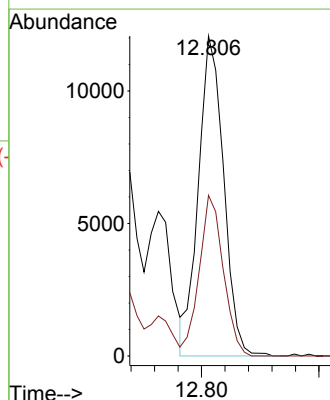
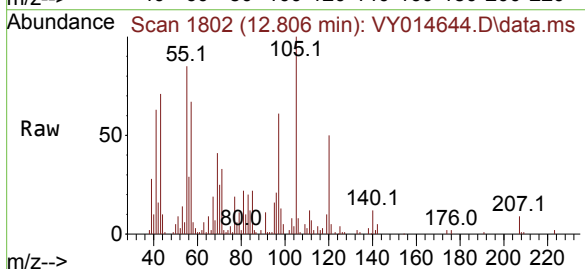
Acq: 14 Jul 2023 13:52

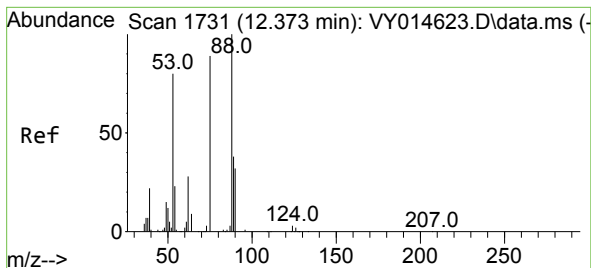
Tgt Ion:105 Resp: 17999

Ion Ratio Lower Upper

105 100

120 48.0 23.9 71.7

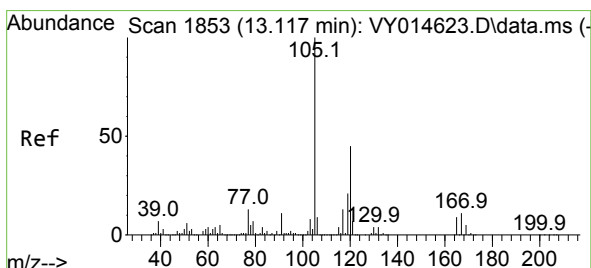
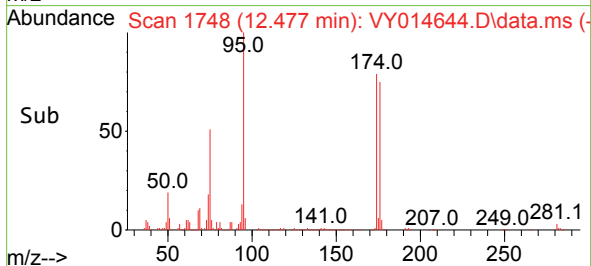
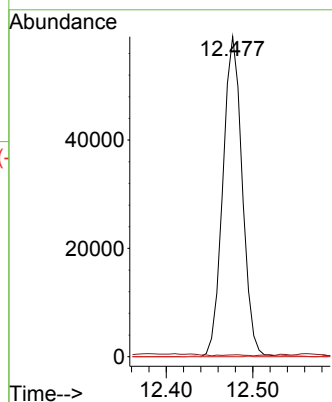
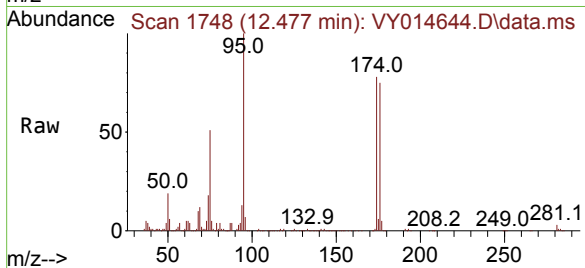




#81
trans-1,4-Dichloro-2-butene
Concen: 79.710 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.104 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Instrument :
MSVOA_Y
ClientSampleId :
HR-1-071223

Tgt Ion: 75 Resp: 91827
Ion Ratio Lower Upper
75 100
53 0.4 77.8 116.8#
89 0.0 37.4 56.0#



#84
1,2,4-Trimethylbenzene
Concen: 2.372 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VY014644.D
Acq: 14 Jul 2023 13:52

Tgt Ion: 105 Resp: 26882
Ion Ratio Lower Upper
105 100
120 43.3 22.2 66.6

