

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080823\
 Data File : VY014991.D
 Acq On : 08 Aug 2023 17:33
 Operator : SY/MD
 Sample : 03927-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 1127

Quant Time: Aug 09 01:03:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y080723S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 07:44:56 2023
 Response via : Initial Calibration

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

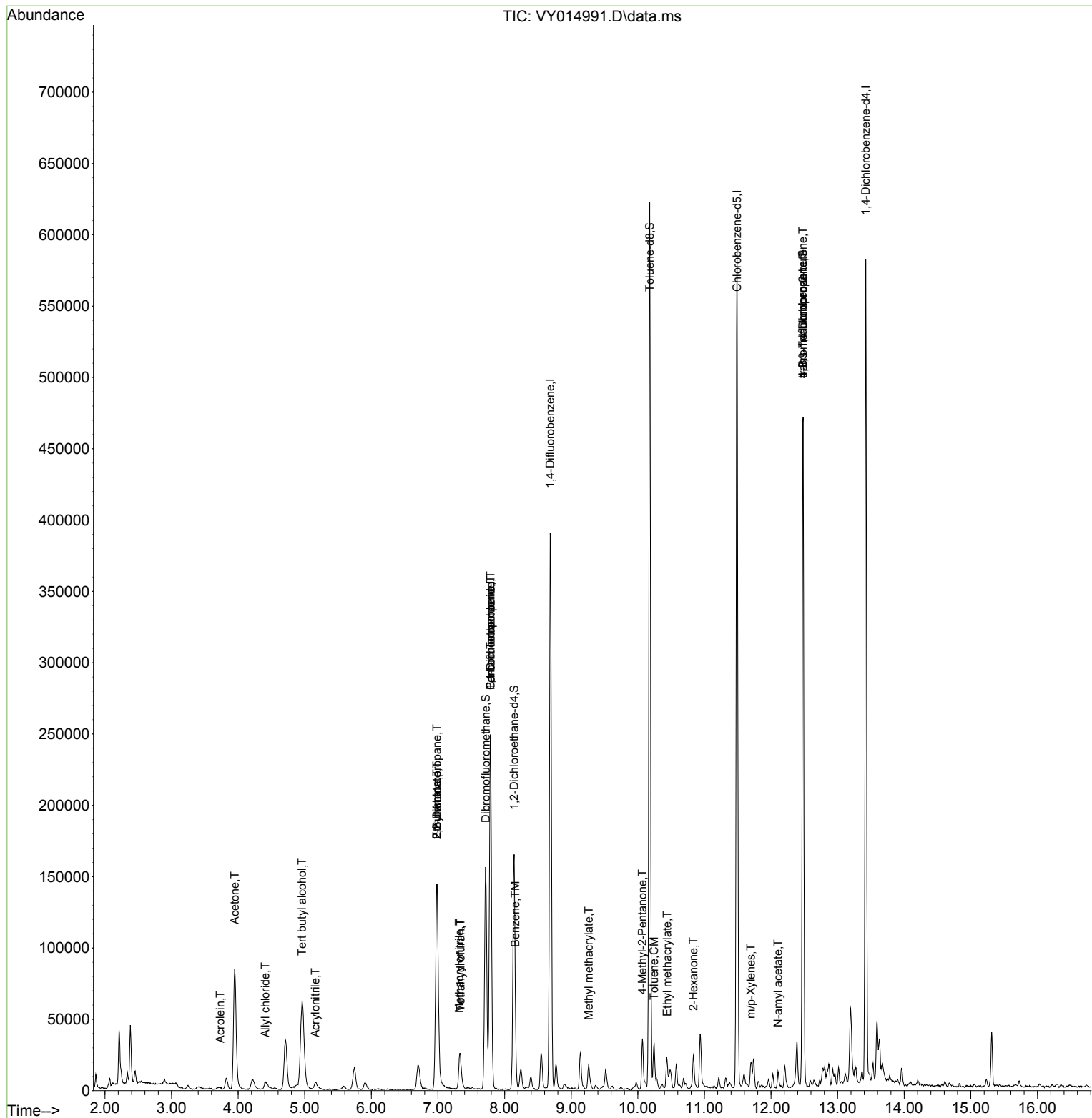
Internal Standards						
1) Pentafluorobenzene	7.789	168	190676	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	340009	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	316609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	142637	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	125565	54.332	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.660%			
35) Dibromofluoromethane	7.716	113	107601	49.488	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.980%			
50) Toluene-d8	10.179	98	402414	48.625	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.260%			
62) 4-Bromofluorobenzene	12.477	95	141459	48.228	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.460%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.912	85	103	Below Cal	#	43
5) Bromomethane	2.625	94	106	Below Cal	#	14
11) Tert butyl alcohol	4.960	59	132657	237.842	ug/l #	80
13) Acrolein	3.729	56	1620	8.538	ug/l #	41
14) Allyl chloride	4.405	41	4108	1.637	ug/l #	66
15) Acrylonitrile	5.161	53	6506	9.877	ug/l	98
16) Acetone	3.948	43	153099	212.444	ug/l	92
20) Methylene Chloride	4.710	84	26736	Below Cal		89
25) 2-Butanone	6.984	43	165992	160.815	ug/l	97
26) 2,2-Dichloropropane	6.984	77	3970	1.183	ug/l #	54
29) Tetrahydrofuran	7.338	42	1859	3.071	ug/l #	74
31) Cyclohexane	7.789	56	4384	Below Cal	#	1
36) 1,1-Dichloropropene	7.789	75	15154	5.614	ug/l #	51
37) Ethyl Acetate	6.984	43	165992	77.469	ug/l #	74
38) Carbon Tetrachloride	7.789	117	19537	6.438	ug/l #	15
40) Benzene	8.161	78	13211	1.662	ug/l	93
41) Methacrylonitrile	7.320	41	5955	5.719	ug/l #	39
48) Methyl methacrylate	9.264	41	5071	2.903	ug/l #	45
51) 4-Methyl-2-Pentanone	10.069	43	23317	10.394	ug/l	92
52) Toluene	10.246	92	13245	2.589	ug/l	93
56) Ethyl methacrylate	10.441	69	4899	1.730	ug/l	98
59) 2-Hexanone	10.837	43	11075	6.683	ug/l	88
68) m/p-Xylenes	11.697	106	5361	1.329	ug/l	87
74) N-amyl acetate	12.105	43	4441	1.356	ug/l #	58
76) 1,2,3-Trichloropropane	12.477	75	75934	44.429	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	75934	97.877	ug/l #	11

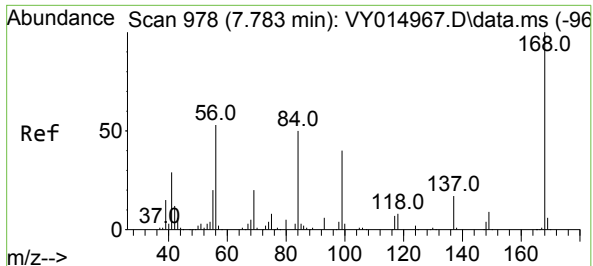
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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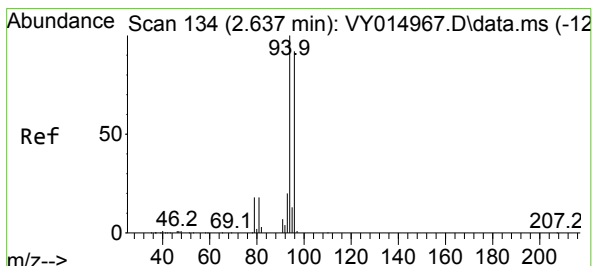
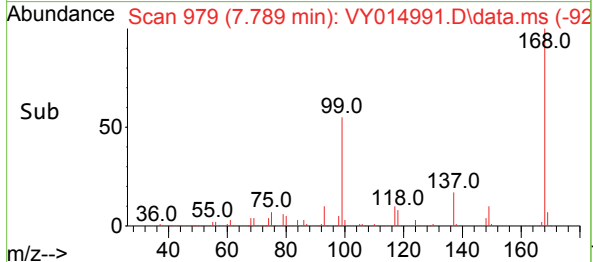
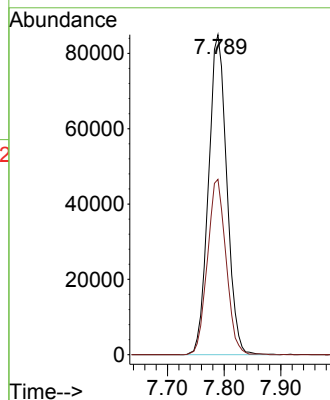
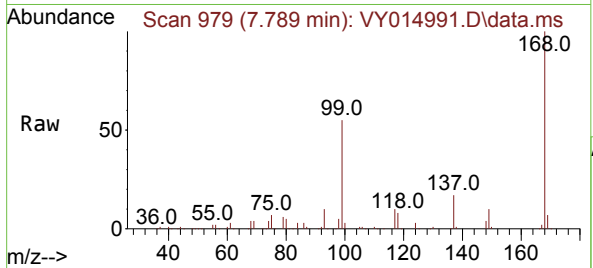




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

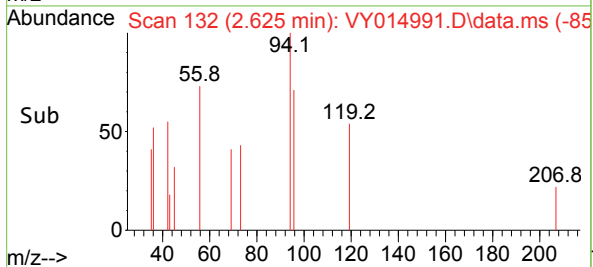
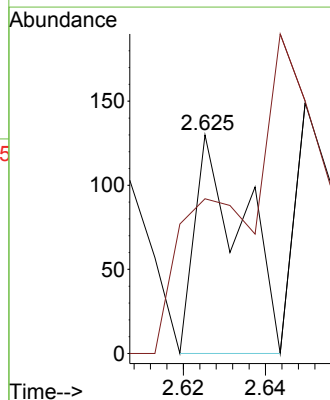
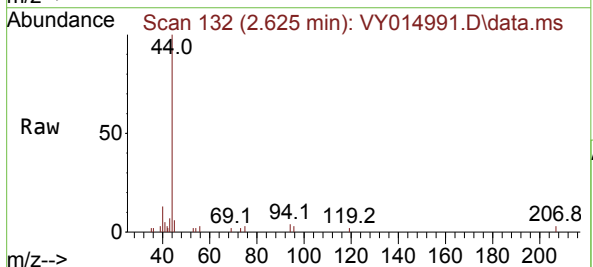
Instrument :
MSVOA_Y
ClientSampleId :
1127

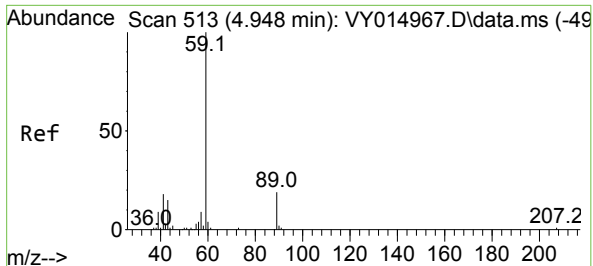
Tgt Ion:168 Resp: 190676
Ion Ratio Lower Upper
168 100
99 54.8 43.4 65.0



#5
Bromomethane
Concen: Below Cal
RT: 2.625 min Scan# 132
Delta R.T. -0.012 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

Tgt Ion: 94 Resp: 106
Ion Ratio Lower Upper
94 100
96 11.5 75.8 113.6#





#11

Tert butyl alcohol

Concen: 237.842 ug/l

RT: 4.960 min Scan# 51

Delta R.T. 0.012 min

Lab File: VY014991.D

Acq: 08 Aug 2023 17:33

Instrument :

MSVOA_Y

ClientSampleId :

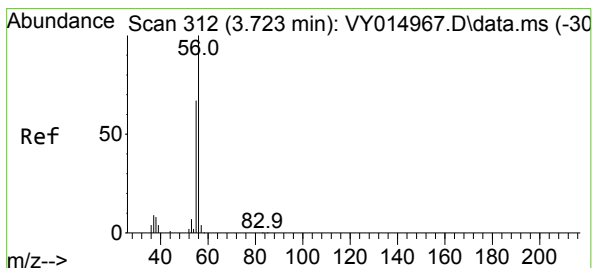
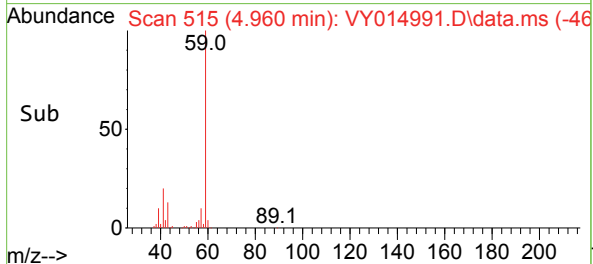
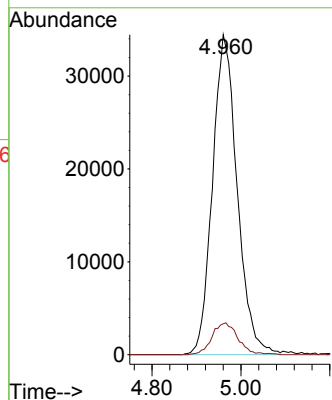
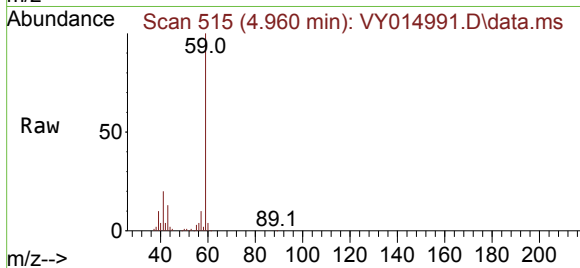
1127

Tgt Ion: 59 Resp: 132657

Ion Ratio Lower Upper

59 100

57 10.4 3.0 4.4#



#13

Acrolein

Concen: 8.538 ug/l

RT: 3.729 min Scan# 313

Delta R.T. 0.006 min

Lab File: VY014991.D

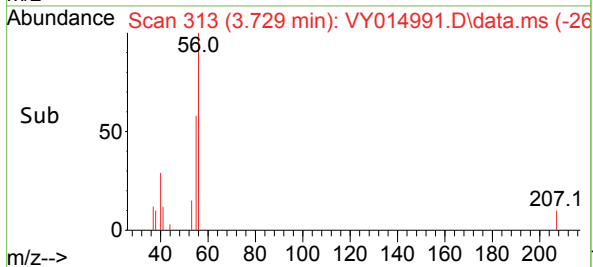
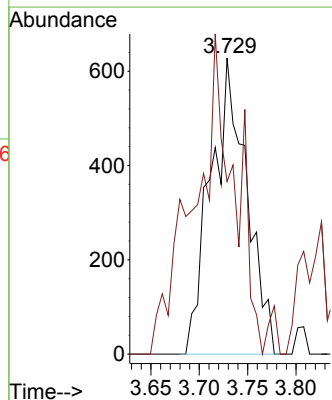
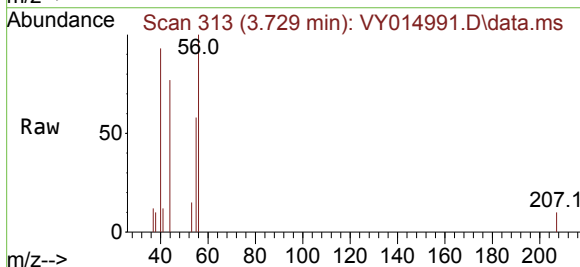
Acq: 08 Aug 2023 17:33

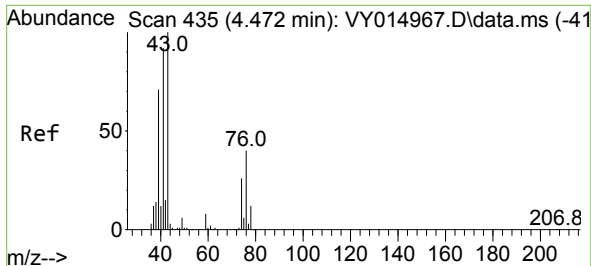
Tgt Ion: 56 Resp: 1620

Ion Ratio Lower Upper

56 100

55 120.3 57.0 85.4#

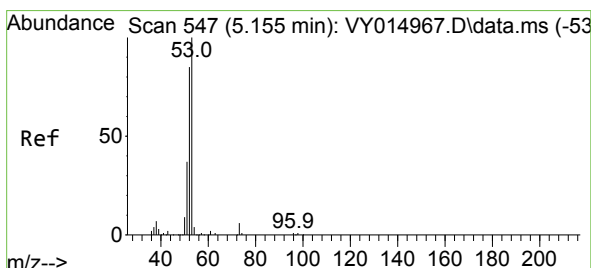
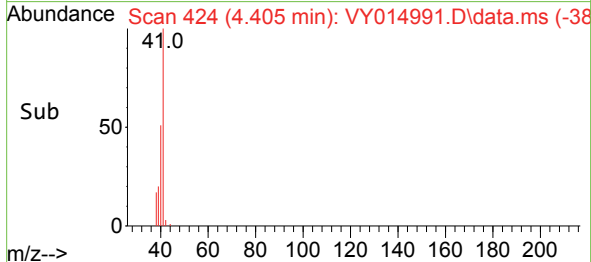
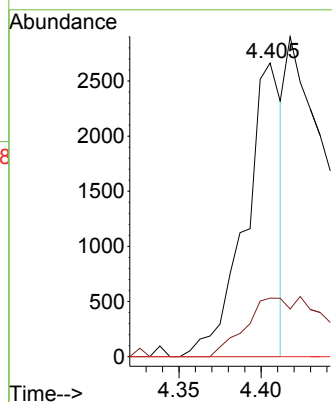
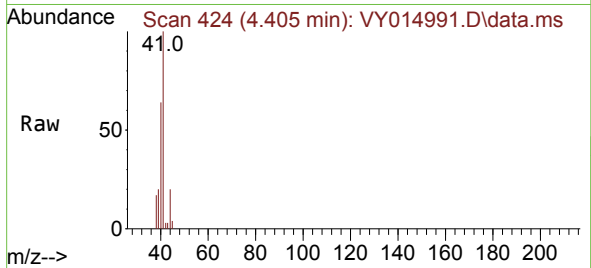




#14
 Allyl chloride
 Concen: 1.637 ug/l
 RT: 4.405 min Scan# 41
 Delta R.T. -0.067 min
 Lab File: VY014991.D
 Acq: 08 Aug 2023 17:33

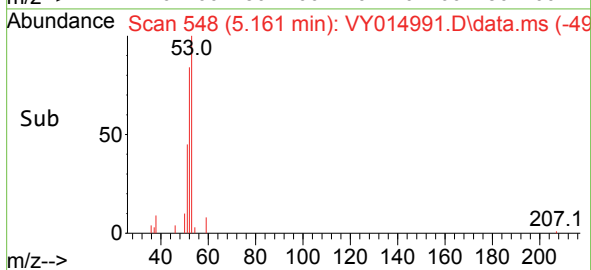
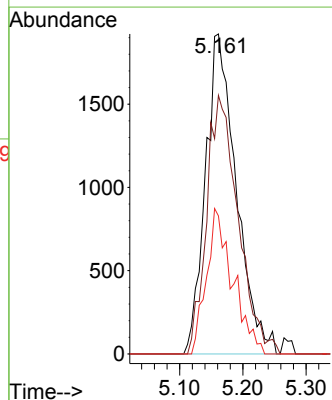
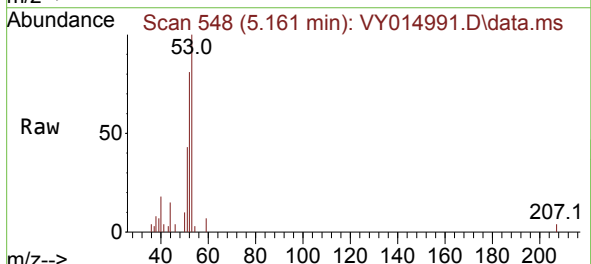
Instrument :
 MSVOA_Y
 ClientSampleId :
 1127

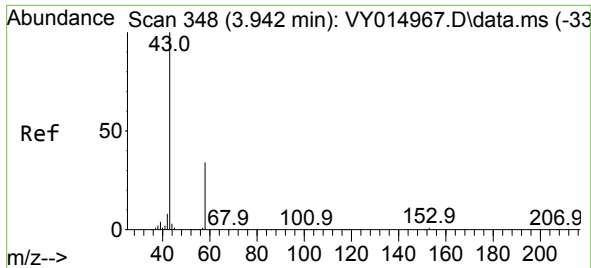
Tgt Ion: 41 Resp: 4108
 Ion Ratio Lower Upper
 41 100
 39 54.2 58.0 87.0#
 76 0.0 27.4 41.2#



#15
 Acrylonitrile
 Concen: 9.877 ug/l
 RT: 5.161 min Scan# 548
 Delta R.T. 0.006 min
 Lab File: VY014991.D
 Acq: 08 Aug 2023 17:33

Tgt Ion: 53 Resp: 6506
 Ion Ratio Lower Upper
 53 100
 52 82.5 66.9 100.3
 51 38.6 29.8 44.6

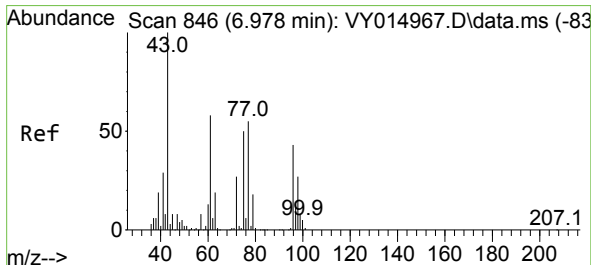
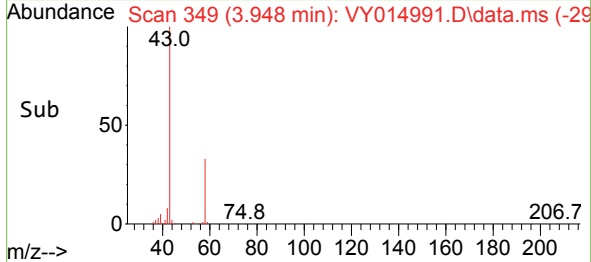
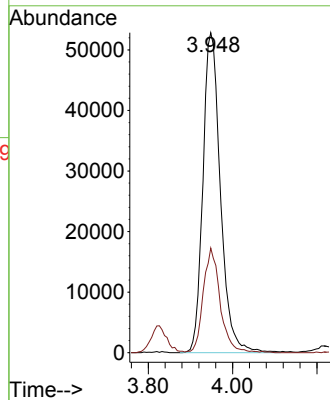
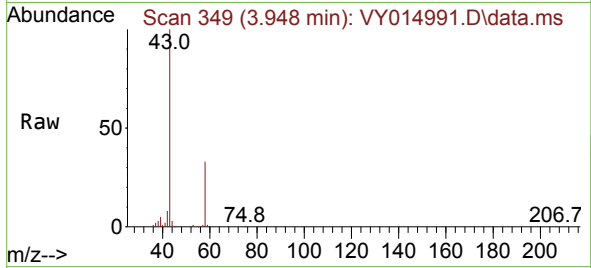




#16
Acetone
Concen: 212.444 ug/l
RT: 3.948 min Scan# 348
Delta R.T. 0.006 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

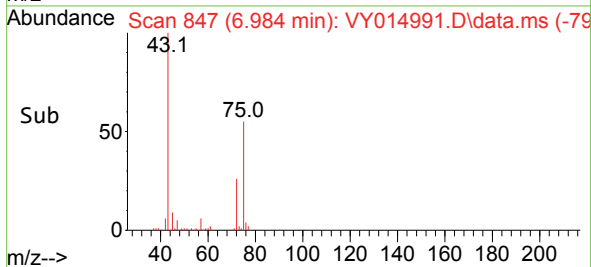
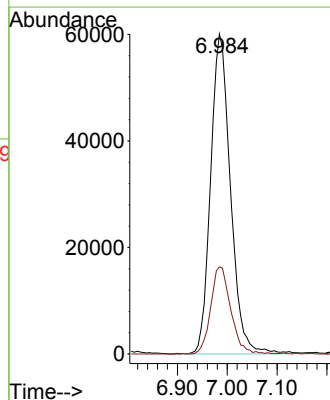
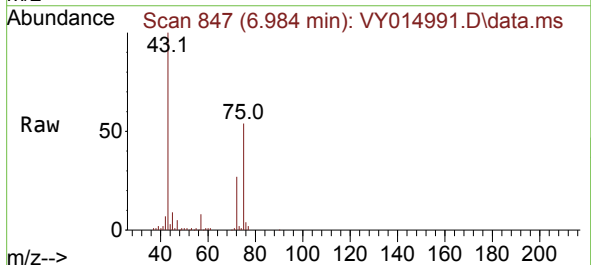
Instrument :
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ClientSampleId :
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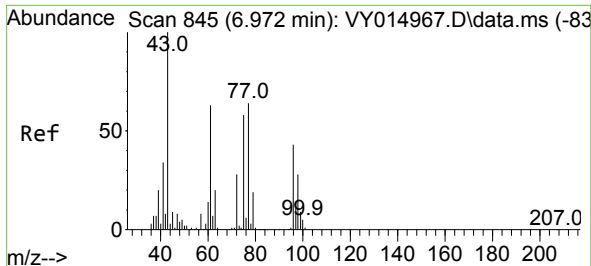
Tgt Ion: 43 Resp: 153099
Ion Ratio Lower Upper
43 100
58 32.7 22.7 34.1



#25
2-Butanone
Concen: 160.815 ug/l
RT: 6.984 min Scan# 847
Delta R.T. 0.006 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

Tgt Ion: 43 Resp: 165992
Ion Ratio Lower Upper
43 100
72 27.2 20.5 30.7

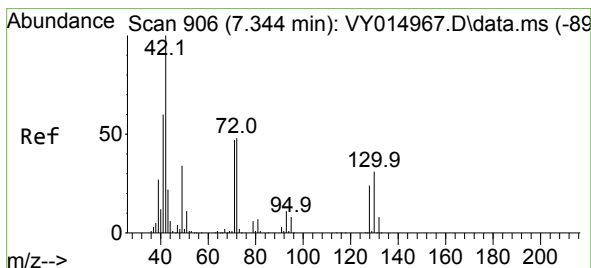
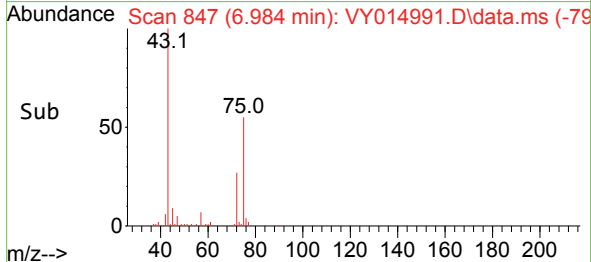
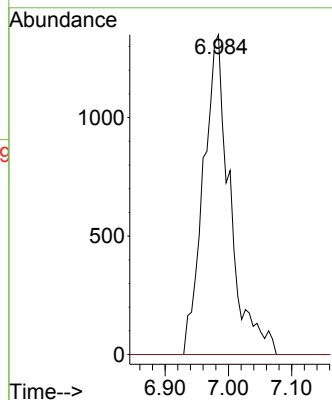
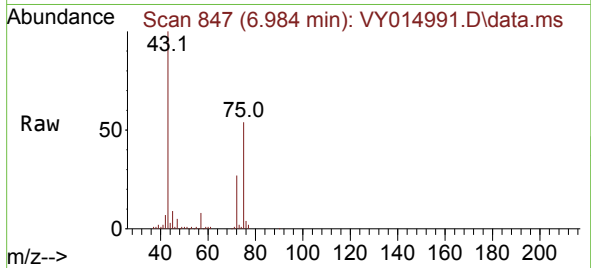




#26
2,2-Dichloropropane
Concen: 1.183 ug/l
RT: 6.984 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

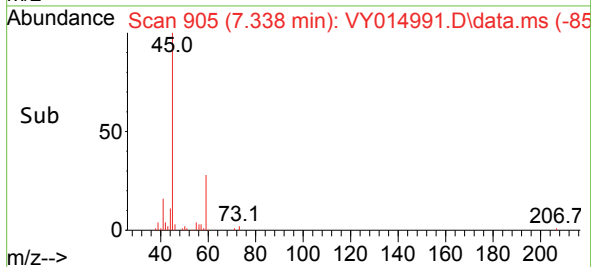
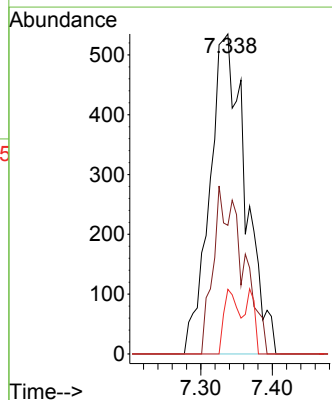
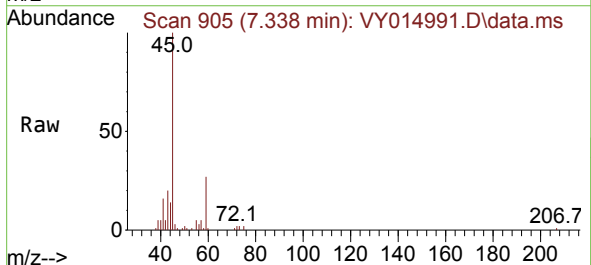
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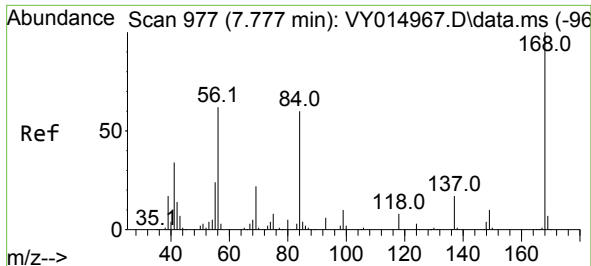
Tgt Ion: 77 Resp: 3970
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



#29
Tetrahydrofuran
Concen: 3.071 ug/l
RT: 7.338 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

Tgt Ion: 42 Resp: 1859
Ion Ratio Lower Upper
42 100
72 43.4 32.8 49.2
71 8.1 31.0 46.4#

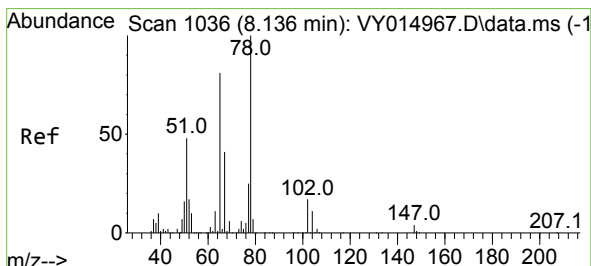
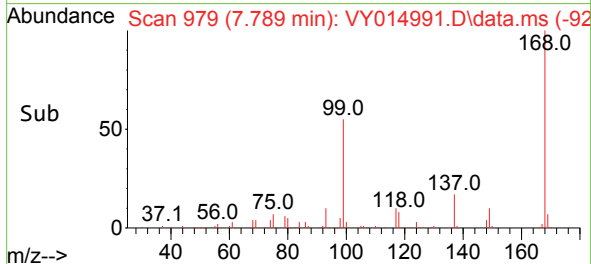
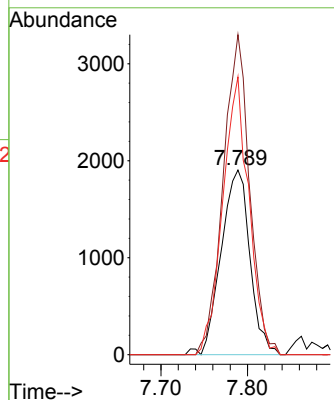
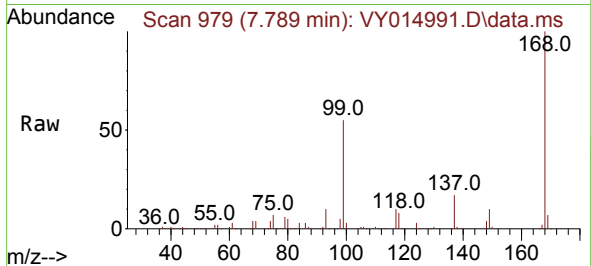




#31
Cyclohexane
Concen: Below Cal
RT: 7.789 min Scan# 911
Delta R.T. 0.012 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

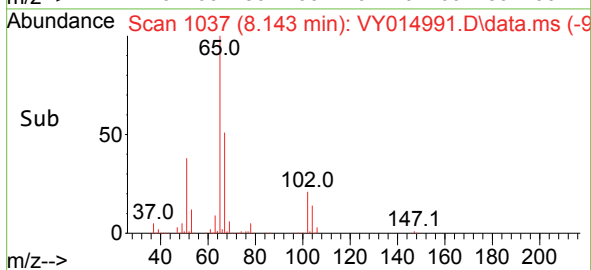
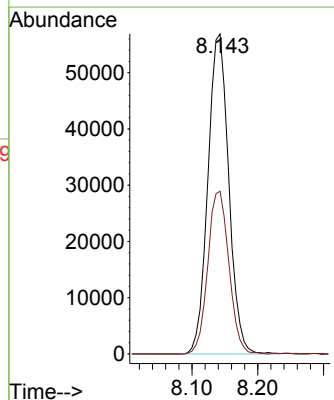
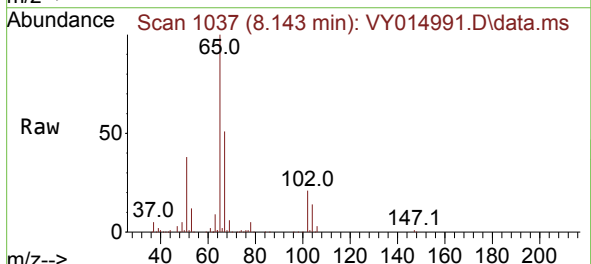
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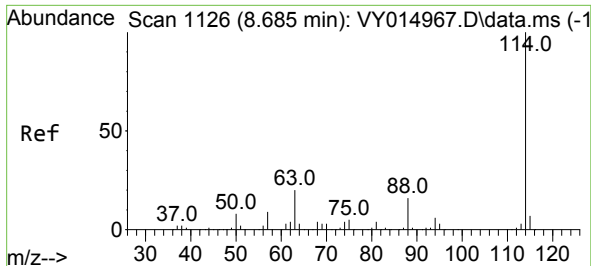
Tgt Ion: 56 Resp: 4384
Ion Ratio Lower Upper
56 100
69 173.3 27.8 41.6#
84 150.4 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 54.332 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

Tgt Ion: 65 Resp: 125565
Ion Ratio Lower Upper
65 100
67 51.5 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: VY014991.D

Acq: 08 Aug 2023 17:33

Instrument :

MSVOA_Y

ClientSampleId :

1127

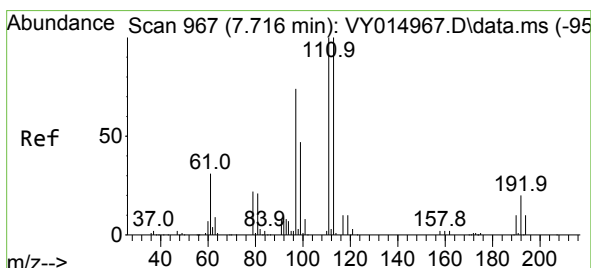
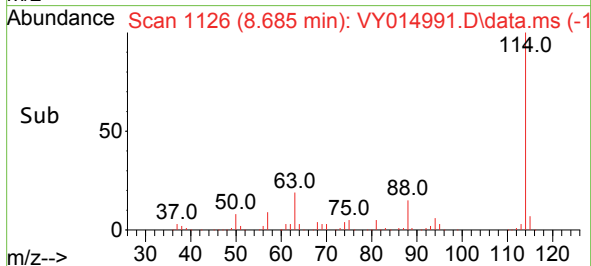
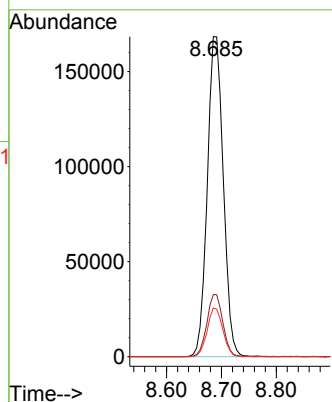
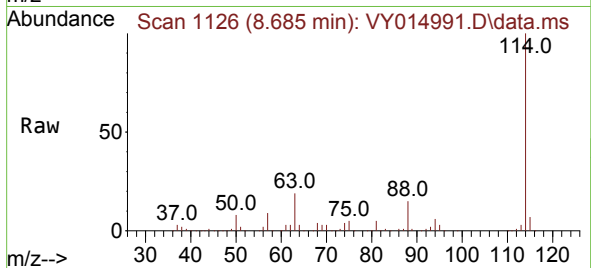
Tgt Ion:114 Resp: 340009

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.4

88 15.2 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.488 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY014991.D

Acq: 08 Aug 2023 17:33

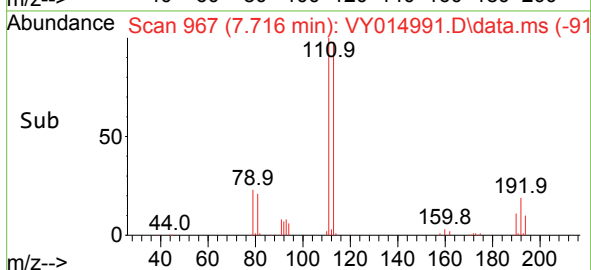
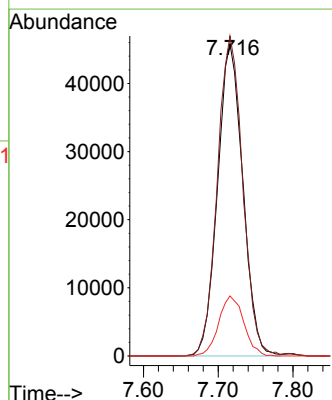
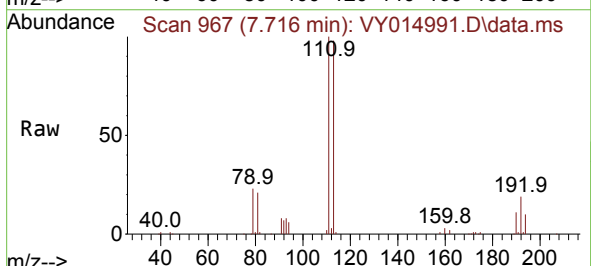
Tgt Ion:113 Resp: 107601

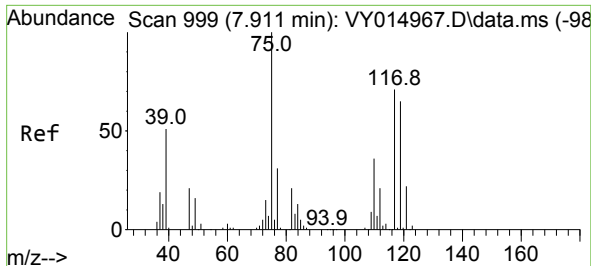
Ion Ratio Lower Upper

113 100

111 103.3 81.3 121.9

192 19.1 16.9 25.3

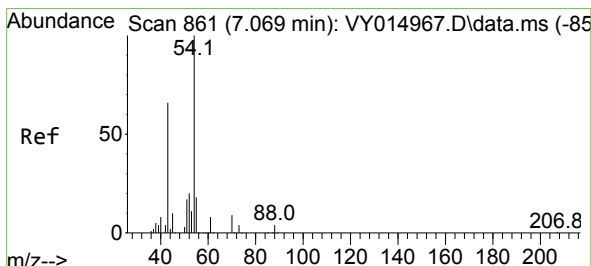
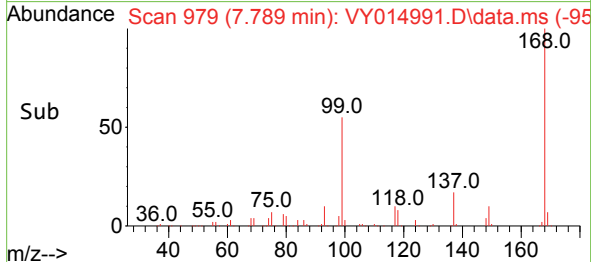
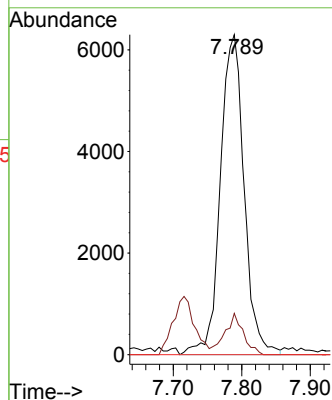
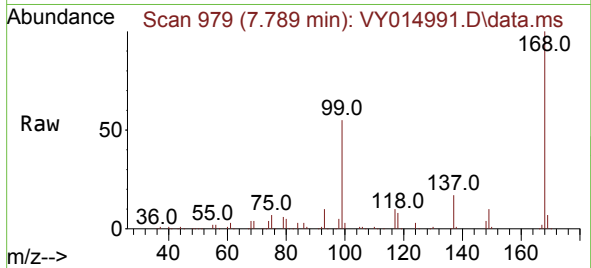




#36
1,1-Dichloropropene
Concen: 5.614 ug/l
RT: 7.789 min Scan# 911
Delta R.T. -0.122 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

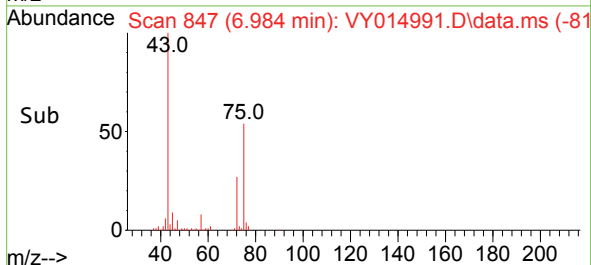
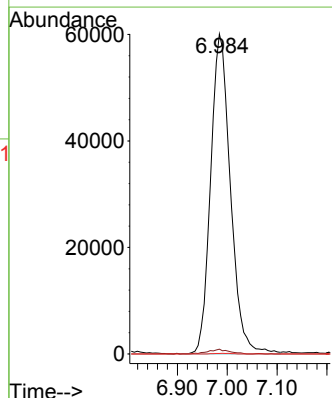
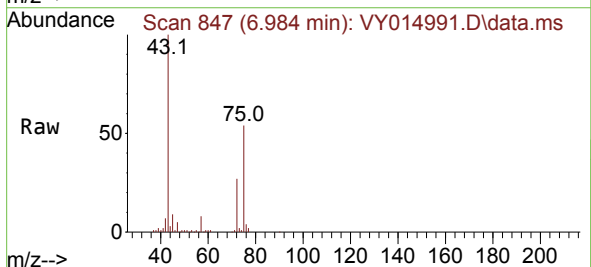
Instrument :
MSVOA_Y
ClientSampleId :
1127

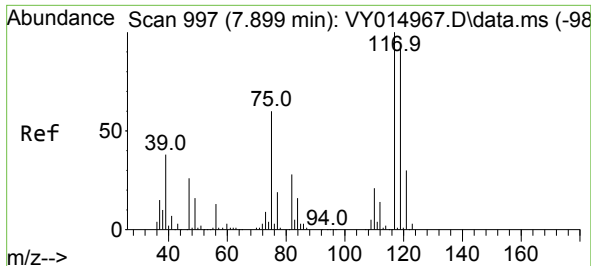
Tgt Ion: 75 Resp: 15154
Ion Ratio Lower Upper
75 100
110 10.1 17.8 53.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 77.469 ug/l
RT: 6.984 min Scan# 847
Delta R.T. -0.085 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

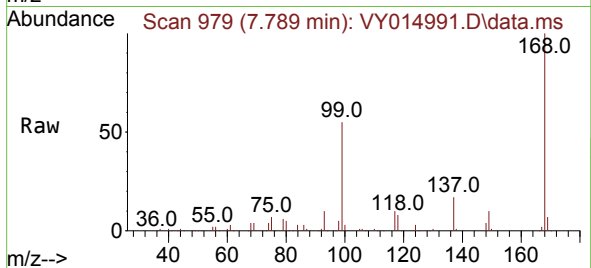
Tgt Ion: 43 Resp: 165992
Ion Ratio Lower Upper
43 100
61 1.5 10.1 15.1#
70 0.2 7.1 10.7#



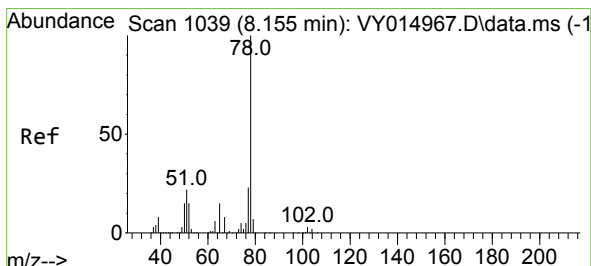
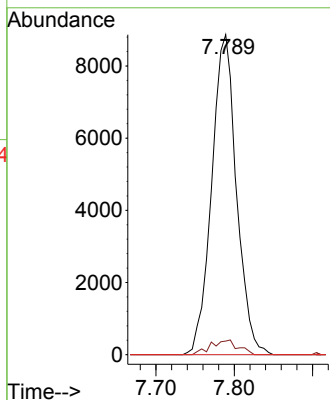
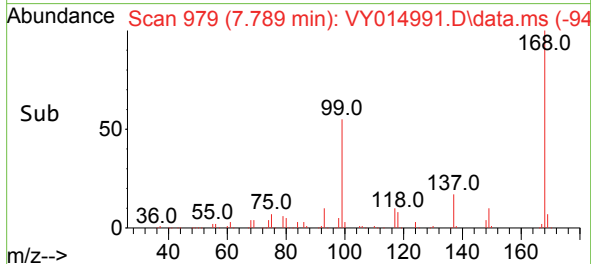


#38
Carbon Tetrachloride
Concen: 6.438 ug/l
RT: 7.789 min Scan# 911
Delta R.T. -0.110 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

Instrument :
MSVOA_Y
ClientSampleId :
1127

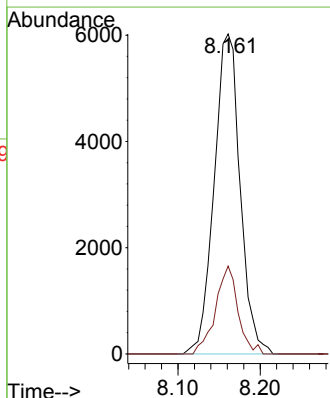
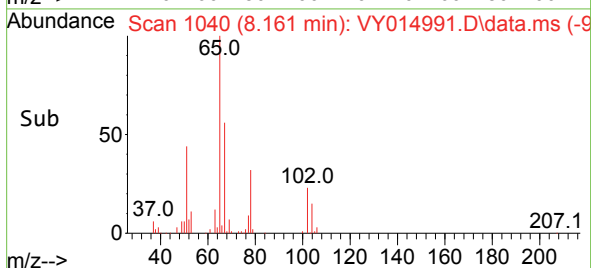
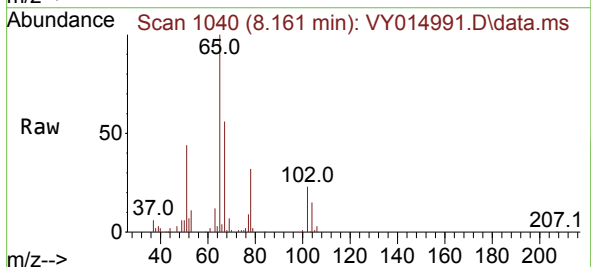


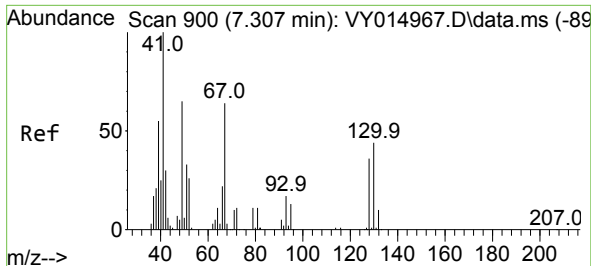
Tgt Ion:117 Resp: 19537
Ion Ratio Lower Upper
117 100
119 4.3 76.4 114.6#
121 0.0 25.8 38.6#



#40
Benzene
Concen: 1.662 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

Tgt Ion: 78 Resp: 13211
Ion Ratio Lower Upper
78 100
77 27.5 19.0 28.6

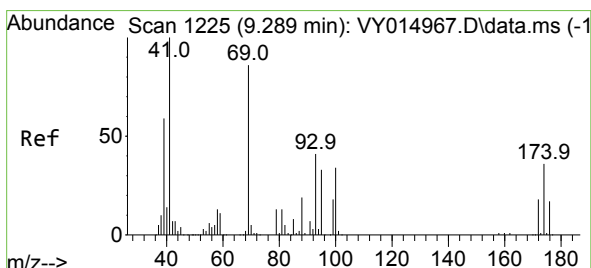
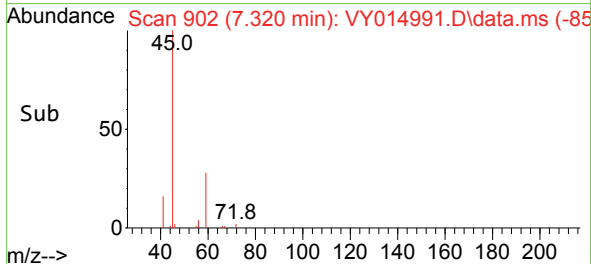
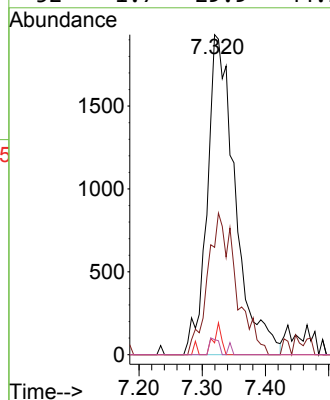
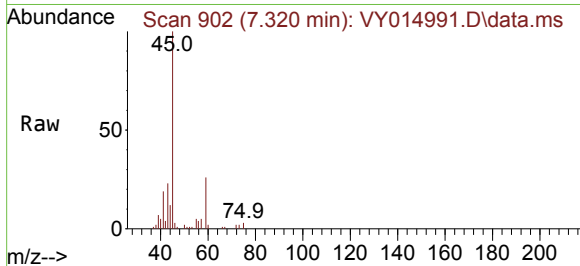




#41
Methacrylonitrile
Concen: 5.719 ug/l
RT: 7.320 min Scan# 901
Delta R.T. 0.012 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

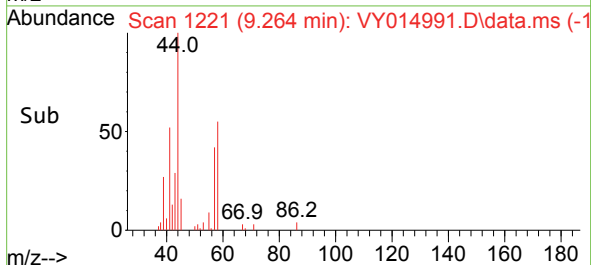
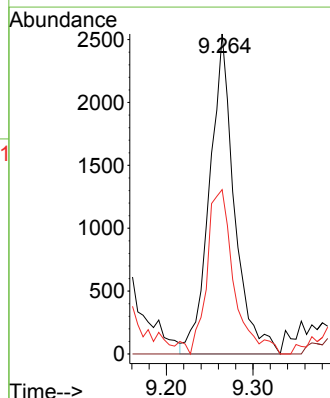
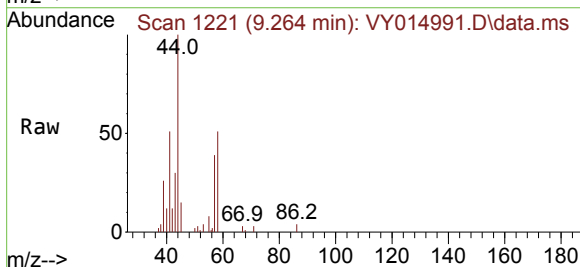
Instrument :
MSVOA_Y
ClientSampleId :
1127

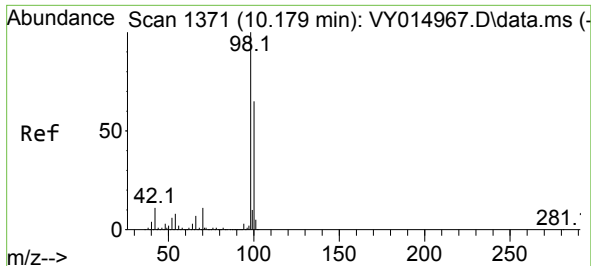
Tgt Ion:	41	Resp:	5955
Ion Ratio	Lower	Upper	
41	100		
39	44.7	52.1	78.1#
67	2.7	66.2	99.2#
52	1.7	29.9	44.9#



#48
Methyl methacrylate
Concen: 2.903 ug/l
RT: 9.264 min Scan# 1221
Delta R.T. -0.024 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

Tgt Ion:	41	Resp:	5071
Ion Ratio	Lower	Upper	
41	100		
69	0.0	64.5	96.7#
39	55.4	50.8	76.2

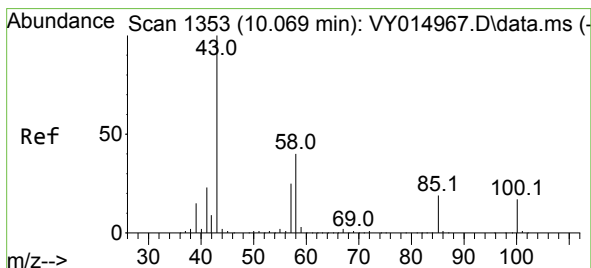
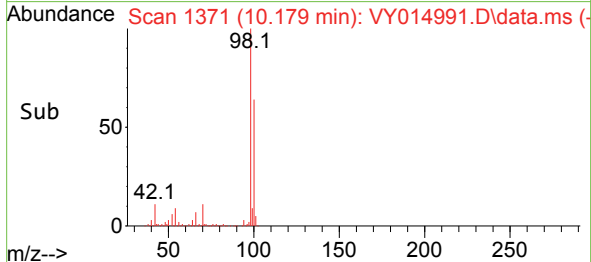
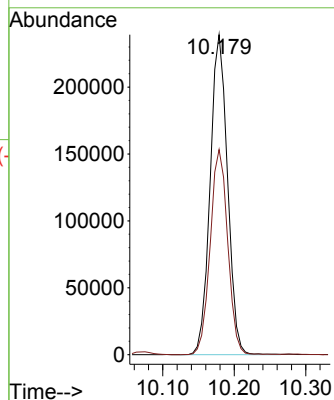
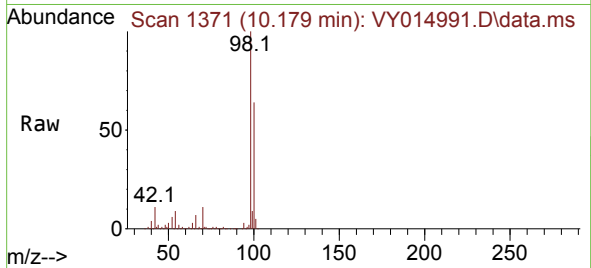




#50
Toluene-d8
Concen: 48.625 ug/l
RT: 10.179 min Scan# 111
Delta R.T. 0.000 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

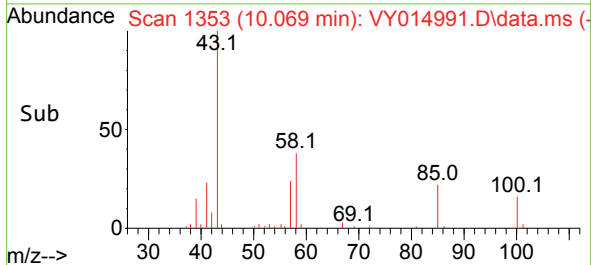
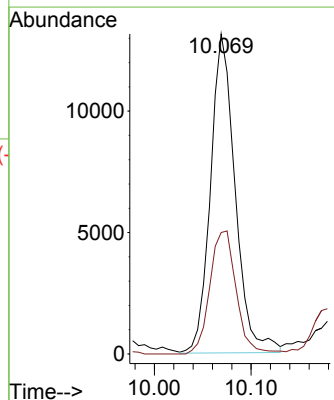
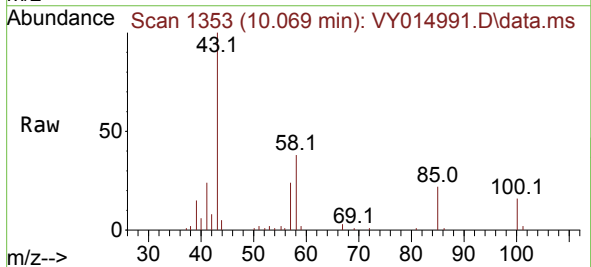
Instrument :
MSVOA_Y
ClientSampleId :
1127

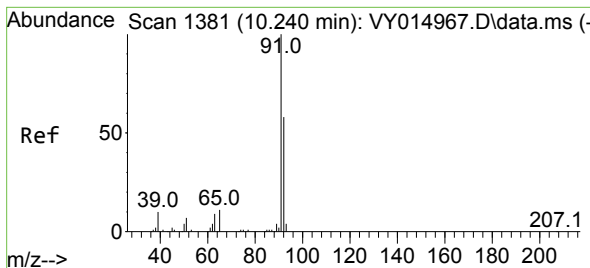
Tgt Ion: 98 Resp: 402414
Ion Ratio Lower Upper
98 100
100 64.7 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 10.394 ug/l
RT: 10.069 min Scan# 1353
Delta R.T. 0.000 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

Tgt Ion: 43 Resp: 23317
Ion Ratio Lower Upper
43 100
58 41.0 29.0 43.6





#52

Toluene

Concen: 2.589 ug/l

RT: 10.246 min Scan# 1112

Delta R.T. 0.006 min

Lab File: VY014991.D

Acq: 08 Aug 2023 17:33

Instrument :

MSVOA_Y

ClientSampleId :

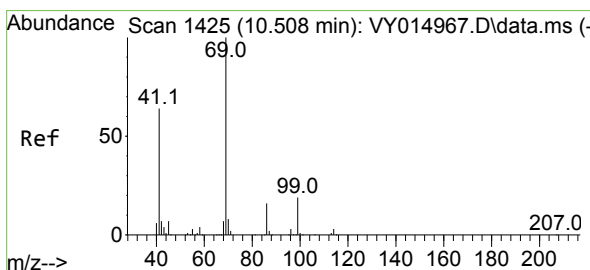
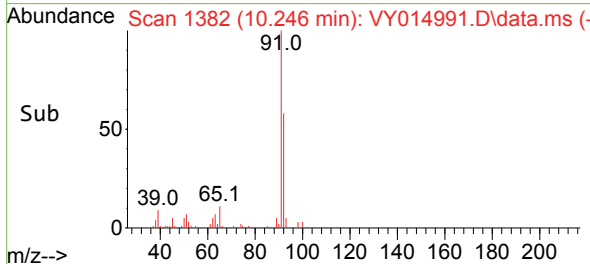
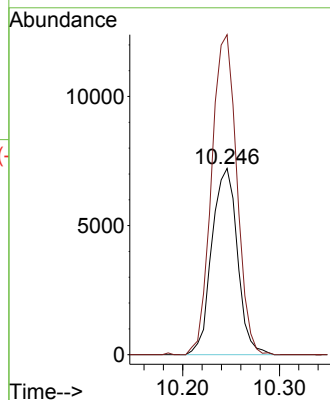
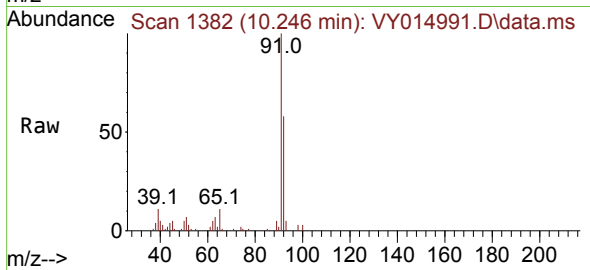
1127

Tgt Ion: 92 Resp: 13245

Ion Ratio Lower Upper

92 100

91 169.5 143.8 215.6



#56

Ethyl methacrylate

Concen: 1.730 ug/l

RT: 10.441 min Scan# 1414

Delta R.T. -0.067 min

Lab File: VY014991.D

Acq: 08 Aug 2023 17:33

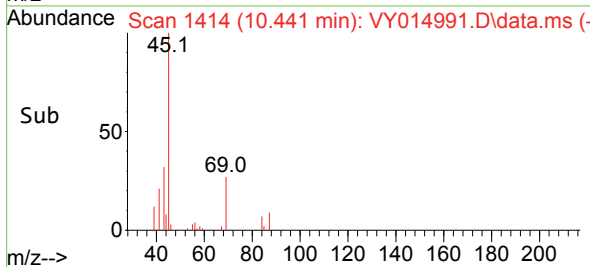
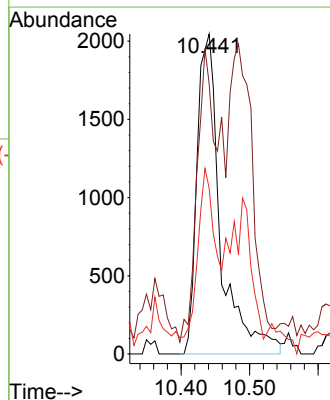
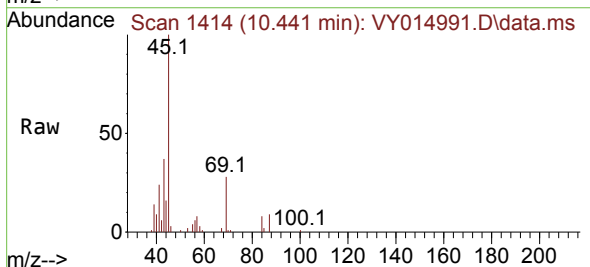
Tgt Ion: 69 Resp: 4899

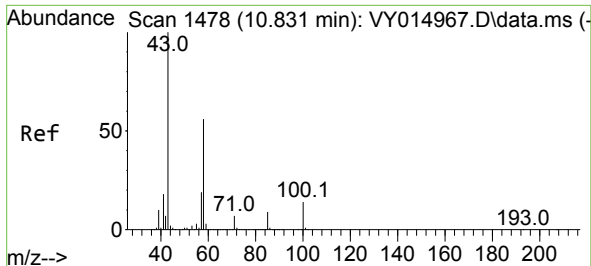
Ion Ratio Lower Upper

69 100

41 69.2 57.6 86.4

39 42.6 34.1 51.1

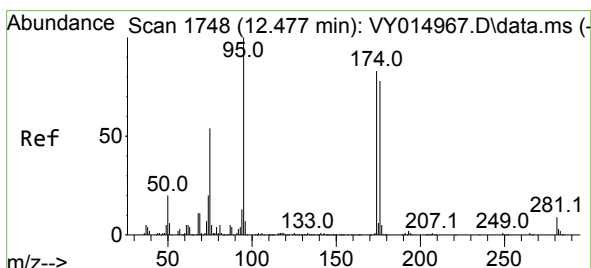
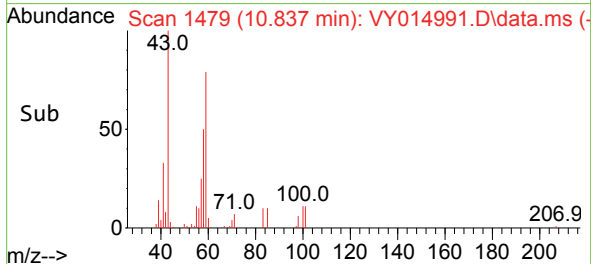
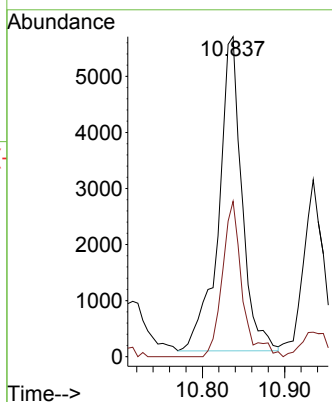
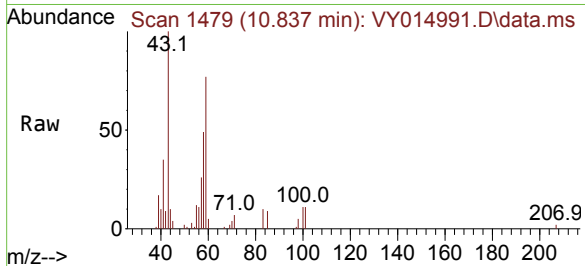




#59
2-Hexanone
Concen: 6.683 ug/l
RT: 10.837 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

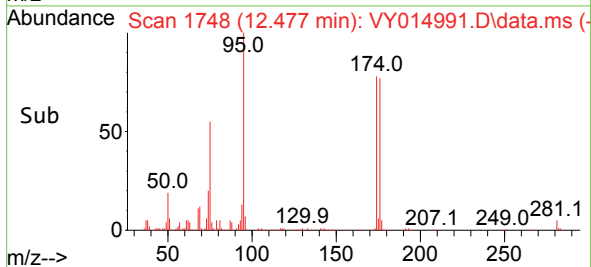
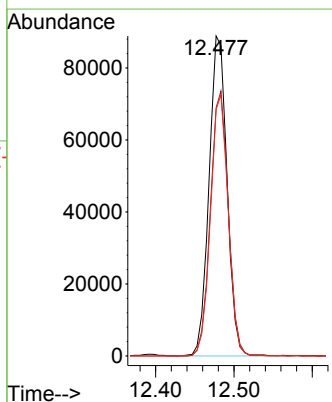
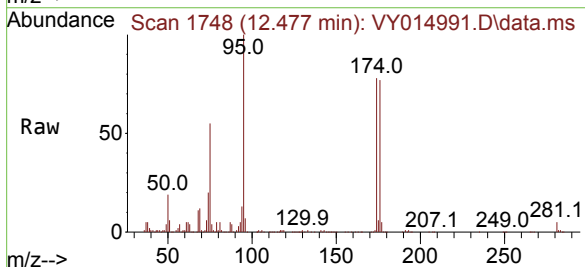
Instrument :
MSVOA_Y
ClientSampleId :
1127

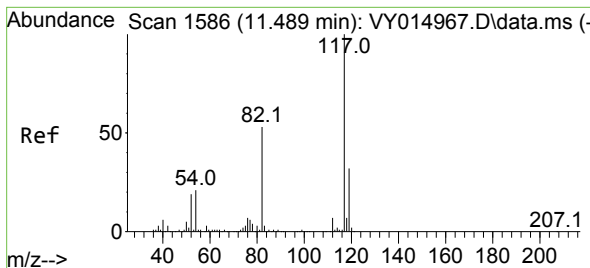
Tgt Ion: 43 Resp: 11075
Ion Ratio Lower Upper
43 100
58 41.8 25.1 75.3



#62
4-Bromofluorobenzene
Concen: 48.228 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

Tgt Ion: 95 Resp: 141459
Ion Ratio Lower Upper
95 100
174 82.7 0.0 178.2
176 80.1 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY014991.D

Acq: 08 Aug 2023 17:33

Instrument :

MSVOA_Y

ClientSampleId :

1127

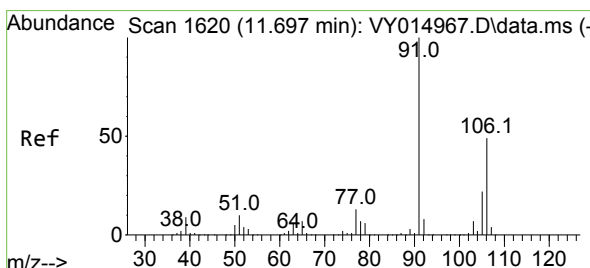
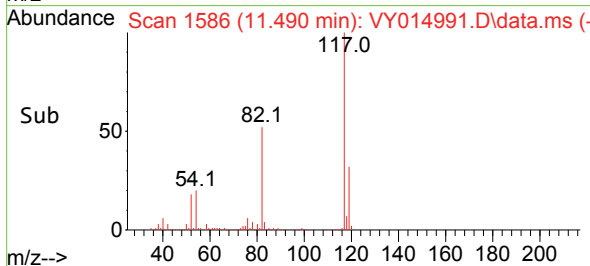
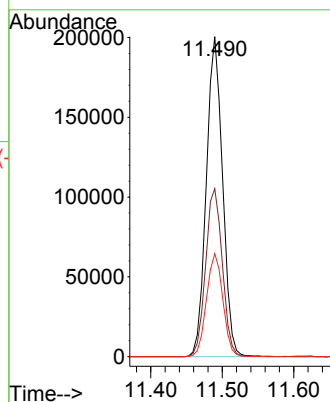
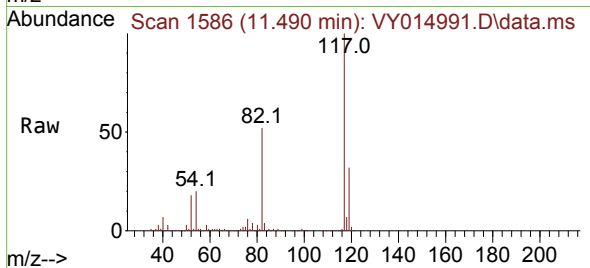
Tgt Ion:117 Resp: 316609

Ion Ratio Lower Upper

117 100

82 52.5 43.4 65.0

119 32.2 26.3 39.5



#68

m/p-Xylenes

Concen: 1.329 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VY014991.D

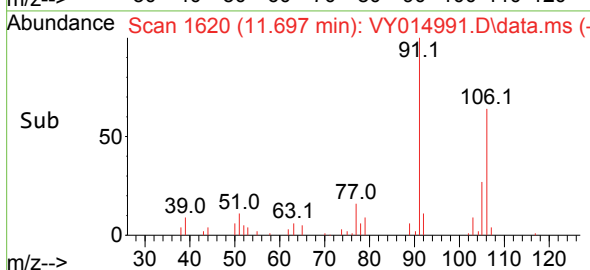
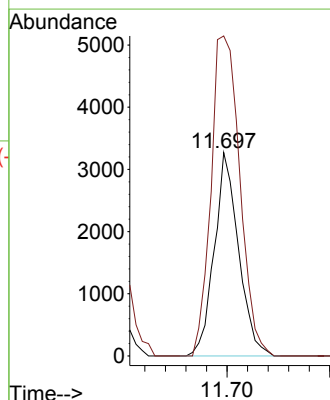
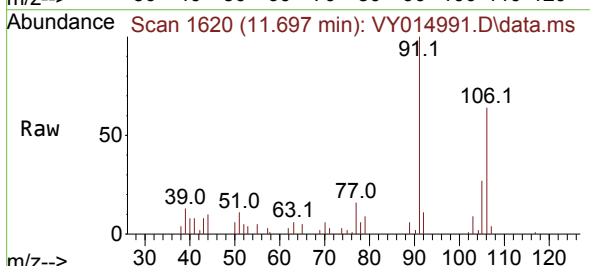
Acq: 08 Aug 2023 17:33

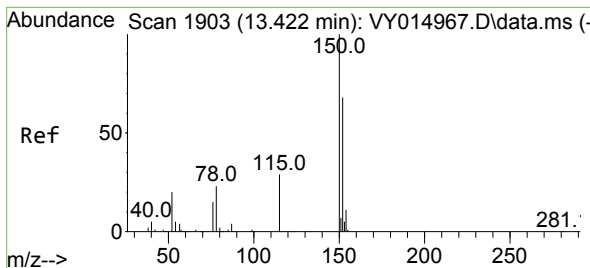
Tgt Ion:106 Resp: 5361

Ion Ratio Lower Upper

106 100

91 187.1 166.1 249.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY014991.D

Acq: 08 Aug 2023 17:33

Instrument :

MSVOA_Y

ClientSampleId :

1127

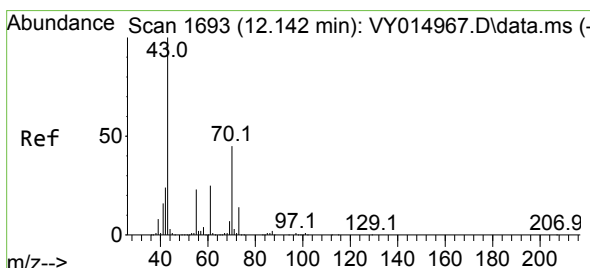
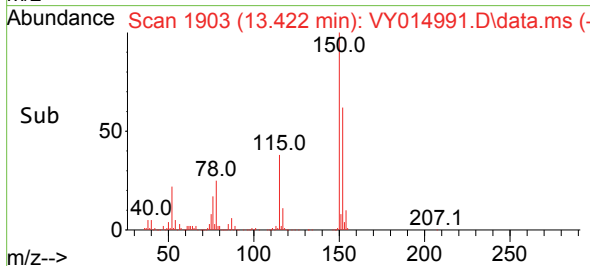
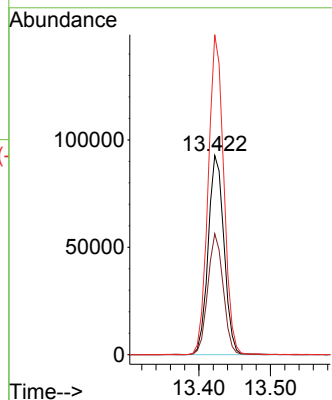
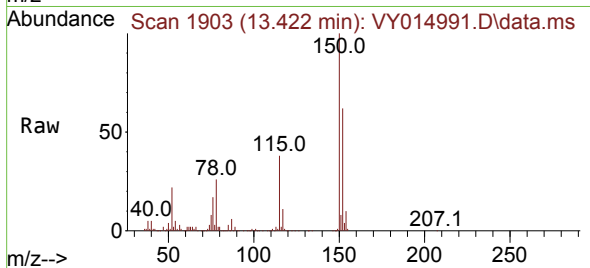
Tgt Ion:152 Resp: 142637

Ion Ratio Lower Upper

152 100

115 59.2 28.8 86.5

150 158.0 0.0 348.8



#74

N-ethyl acetate

Concen: 1.356 ug/l

RT: 12.105 min Scan# 1687

Delta R.T. -0.036 min

Lab File: VY014991.D

Acq: 08 Aug 2023 17:33

Tgt Ion: 43 Resp: 4441

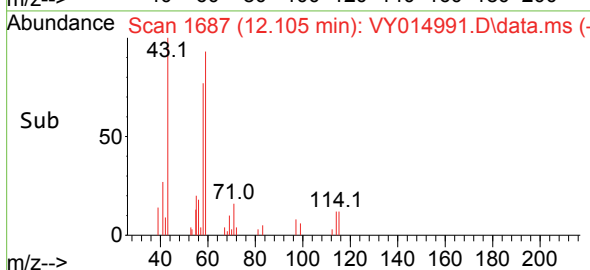
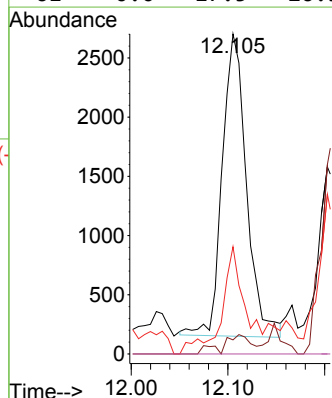
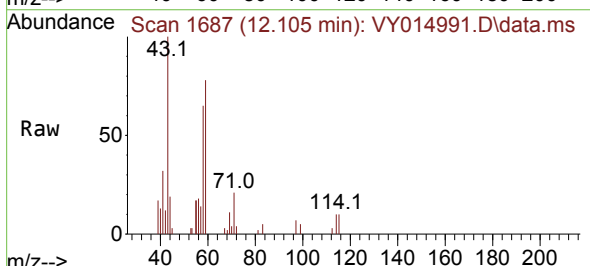
Ion Ratio Lower Upper

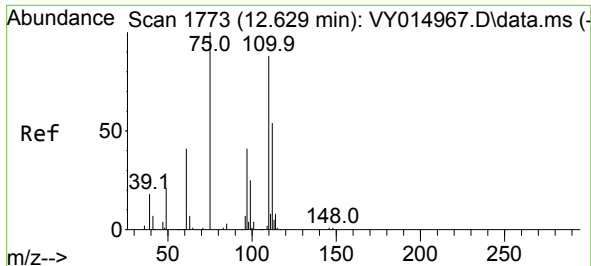
43 100

70 5.9 29.7 44.5#

55 34.0 18.3 27.5#

61 0.0 17.5 26.3#

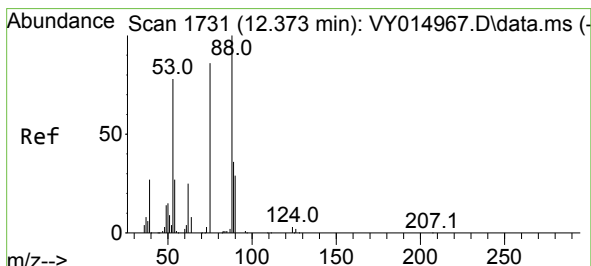
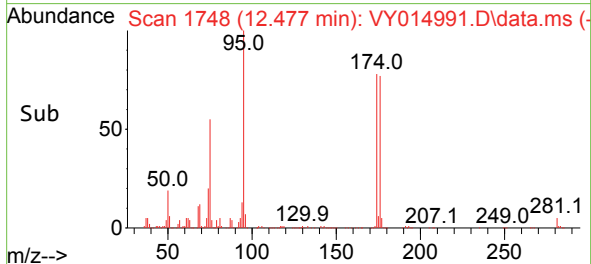
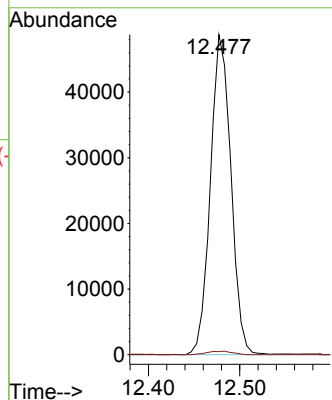
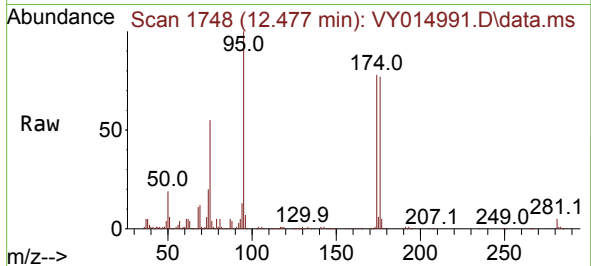




#76
1,2,3-Trichloropropane
Concen: 44.429 ug/l
RT: 12.477 min Scan# 1127
Delta R.T. -0.152 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

Instrument :
MSVOA_Y
ClientSampleId :
1127

Tgt Ion: 75 Resp: 75934
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 97.877 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.104 min
Lab File: VY014991.D
Acq: 08 Aug 2023 17:33

Tgt Ion: 75 Resp: 75934
Ion Ratio Lower Upper
75 100
53 0.4 77.8 116.8#
89 0.4 37.4 56.0#

