

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071423\
 Data File : VY014660.D
 Acq On : 14 Jul 2023 20:13
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

Quant Time: Jul 14 23:17:33 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)

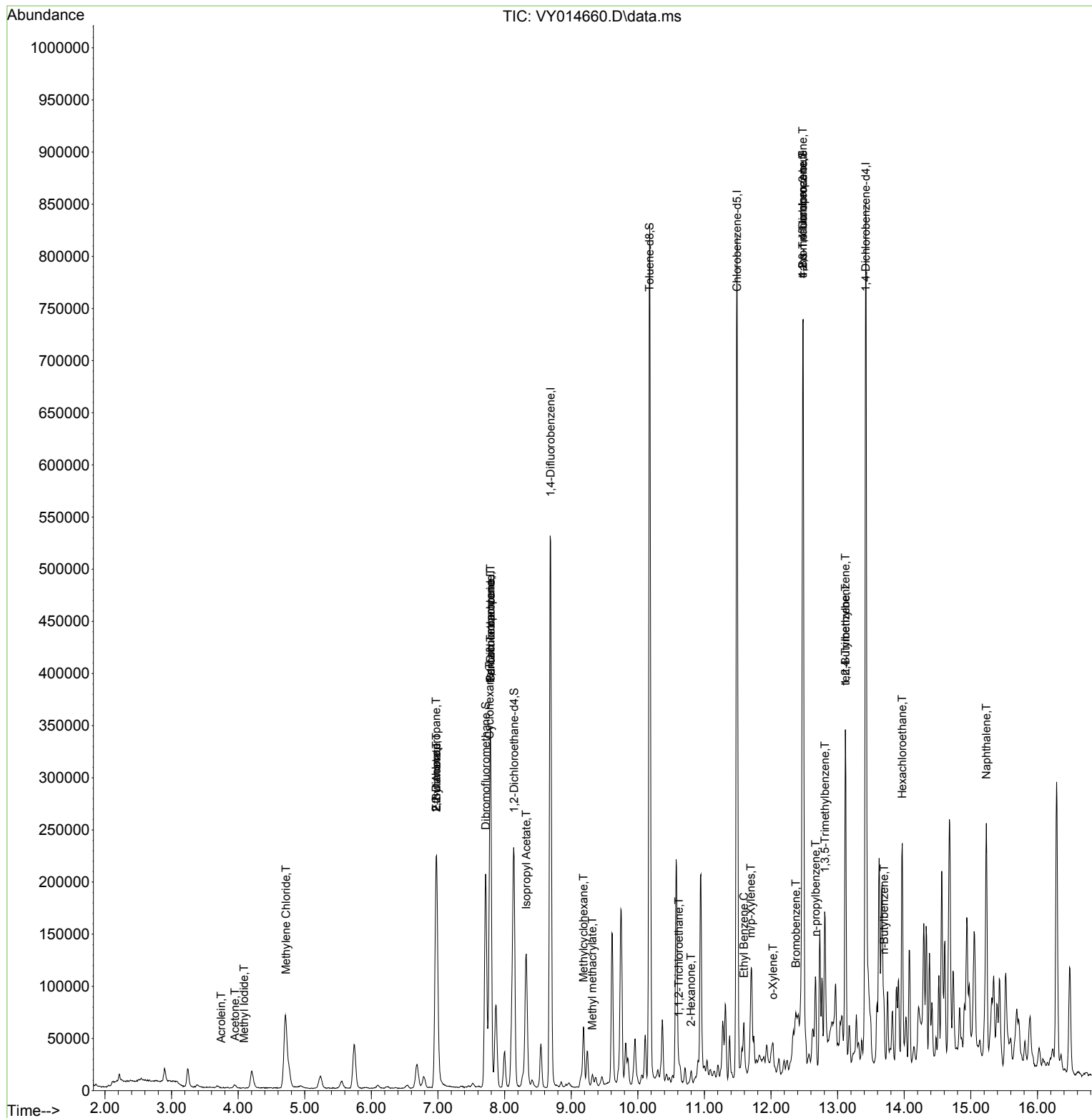
Internal Standards						
1) Pentafluorobenzene	7.789	168	264887	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	452093	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	420503	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	205759	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	159796	52.939	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.880%	
35) Dibromofluoromethane	7.716	113	144467	50.198	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 100.400%	
50) Toluene-d8	10.179	98	540562	50.947	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.900%	
62) 4-Bromofluorobenzene	12.477	95	208208	51.177	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 102.360%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.088	142	150	2.418	ug/l #	38
11) Tert butyl alcohol	4.948	59	4229	Below Cal	#	90
13) Acrolein	3.747	56	320	1.014	ug/l #	14
16) Acetone	3.954	43	4372	4.571	ug/l	97
20) Methylene Chloride	4.716	84	47668	12.143	ug/l	88
25) 2-Butanone	6.978	43	12847	9.180	ug/l #	76
26) 2,2-Dichloropropane	6.972	77	16370	3.188	ug/l #	54
31) Cyclohexane	7.777	56	11867	2.368	ug/l #	64
36) 1,1-Dichloropropene	7.789	75	19988	4.644	ug/l #	51
37) Ethyl Acetate	6.978	43	12847	4.336	ug/l #	1
38) Carbon Tetrachloride	7.789	117	26312	5.783	ug/l #	16
39) Methylcyclohexane	9.185	83	8569	1.528	ug/l #	74
43) Isopropyl Acetate	8.325	43	27257	4.829	ug/l #	55
48) Methyl methacrylate	9.319	41	3028	1.192	ug/l #	28
55) 1,1,2-Trichloroethane	10.618	97	4943	1.830	ug/l #	21
59) 2-Hexanone	10.801	43	4638	2.146	ug/l #	35
67) Ethyl Benzene	11.593	91	28105	1.737	ug/l	97
68) m/p-Xylenes	11.697	106	22584	3.657	ug/l	98
69) o-Xylene	12.032	106	6630	1.102	ug/l	97
76) 1,2,3-Trichloropropane	12.477	75	108229	41.648	ug/l #	100
77) Bromobenzene	12.373	156	13007	3.537	ug/l #	1
78) n-propylbenzene	12.672	91	57555	2.965	ug/l	97
80) 1,3,5-Trimethylbenzene	12.812	105	47867	3.558	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.477	75	108229	80.637	ug/l #	12
83) tert-Butylbenzene	13.117	119	19302	1.617	ug/l #	63
84) 1,2,4-Trimethylbenzene	13.117	105	163985	12.419	ug/l	98
89) n-Butylbenzene	13.696	91	43362	3.118	ug/l #	73
90) Hexachloroethane	13.971	117	9071	3.089	ug/l #	8
95) Naphthalene	15.233	128	164286	16.940	ug/l	99

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

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QLast Update : Fri Jul 14 02:09:50 2023
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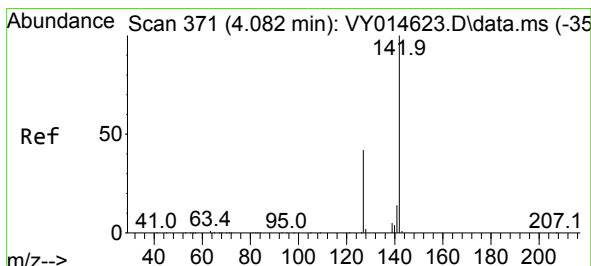
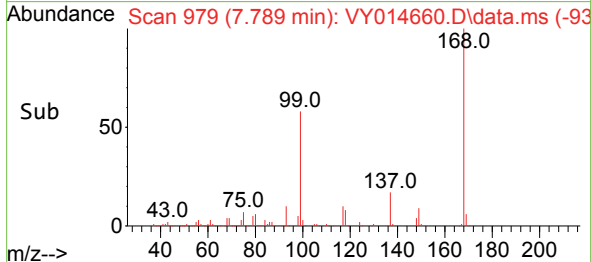
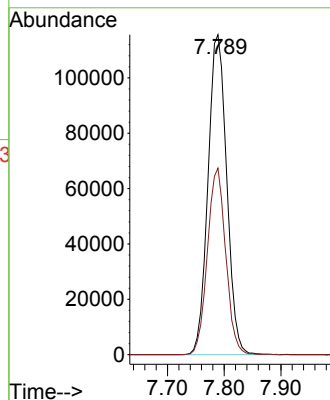
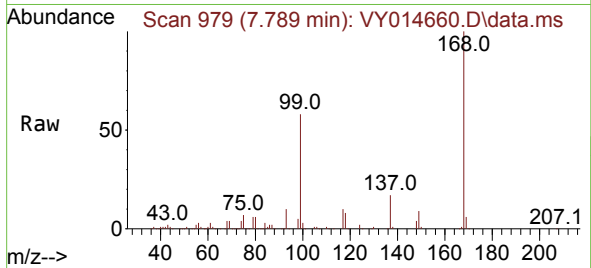




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

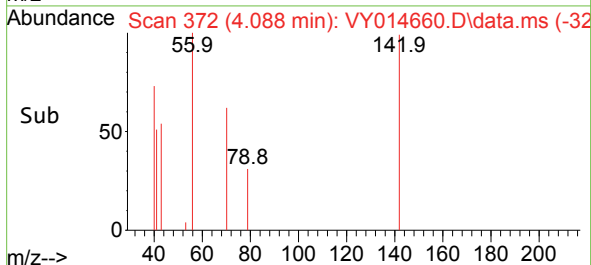
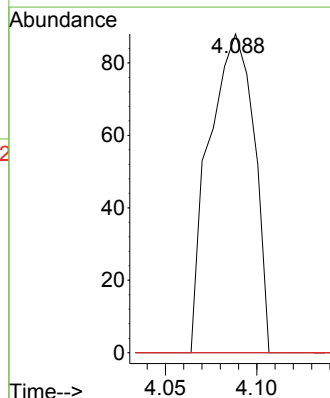
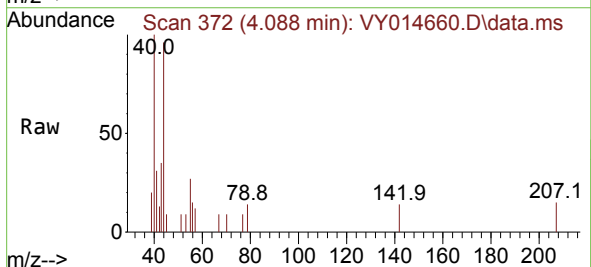
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

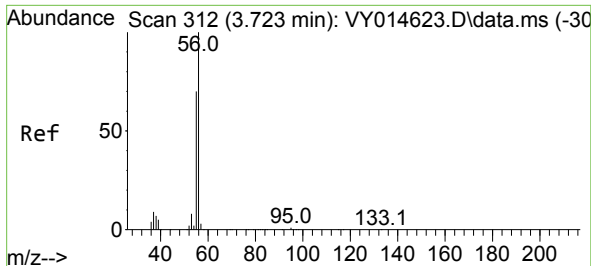
Tgt Ion:168 Resp: 264887
Ion Ratio Lower Upper
168 100
99 58.3 43.4 65.0



#10
Methyl Iodide
Concen: 2.418 ug/l
RT: 4.088 min Scan# 372
Delta R.T. 0.006 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Tgt Ion:142 Resp: 150
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#





#13

Acrolein

Concen: 1.014 ug/l

RT: 3.747 min Scan# 31

Delta R.T. 0.024 min

Lab File: VY014660.D

Acq: 14 Jul 2023 20:13

Instrument :

MSVOA_Y

ClientSampleId :

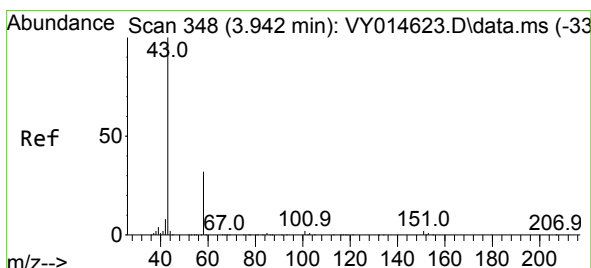
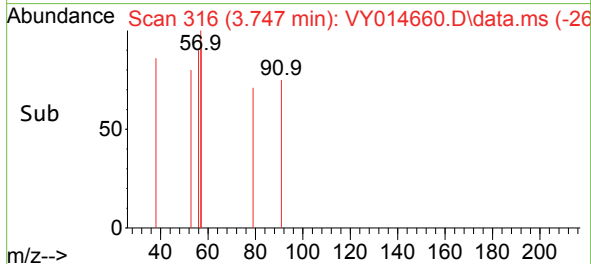
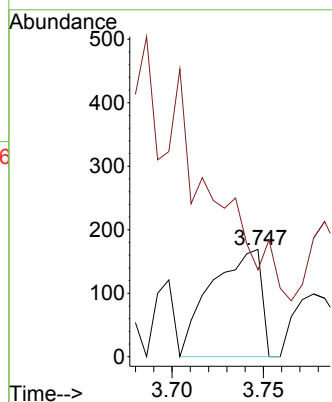
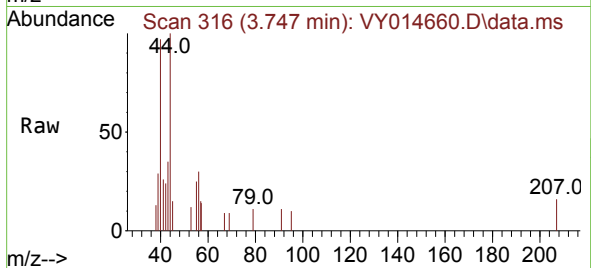
VIBLK

Tgt Ion: 56 Resp: 320

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 4.571 ug/l

RT: 3.954 min Scan# 350

Delta R.T. 0.012 min

Lab File: VY014660.D

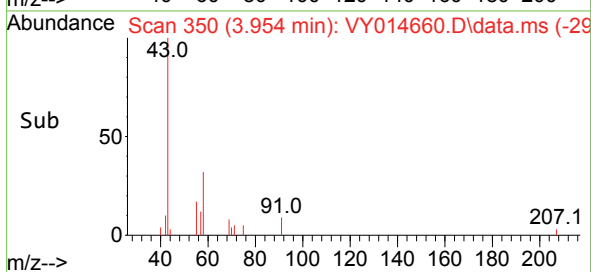
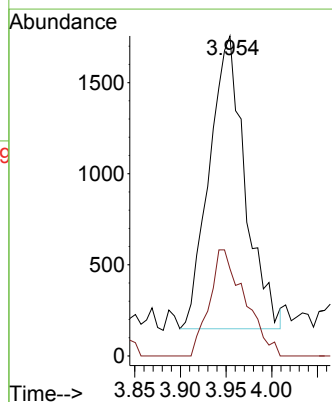
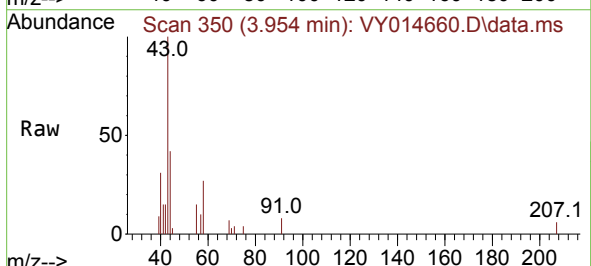
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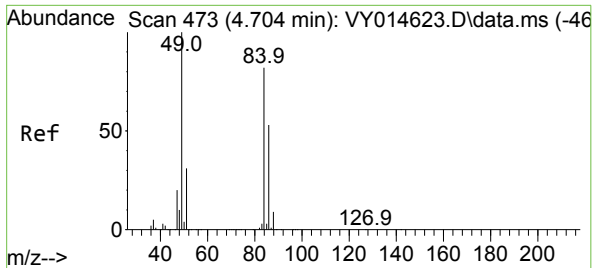
Tgt Ion: 43 Resp: 4372

Ion Ratio Lower Upper

43 100

58 29.7 22.7 34.1



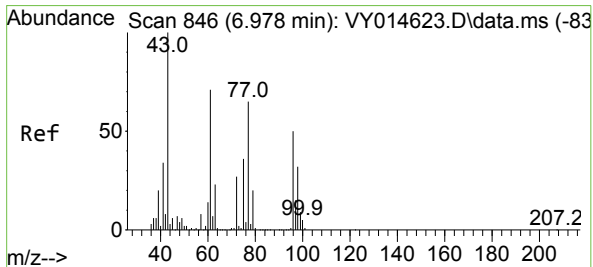
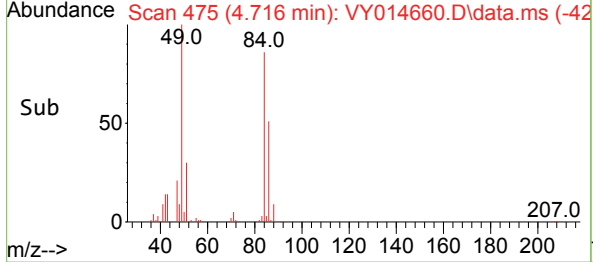
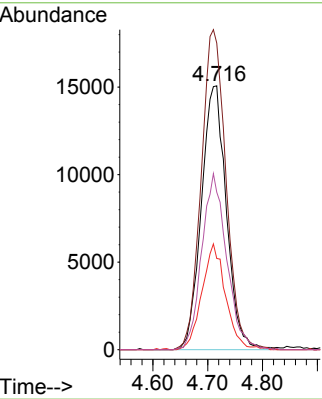
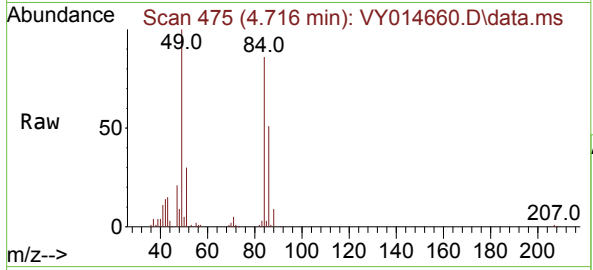


#20
Methylene Chloride
Concen: 12.143 ug/l
RT: 4.716 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

Tgt Ion: 84 Resp: 47668

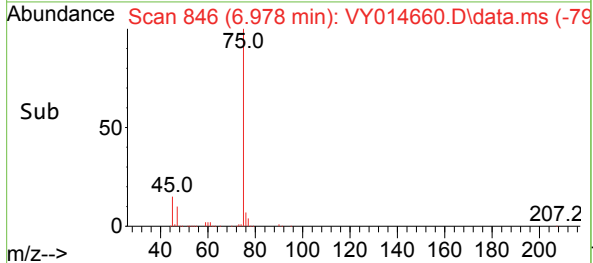
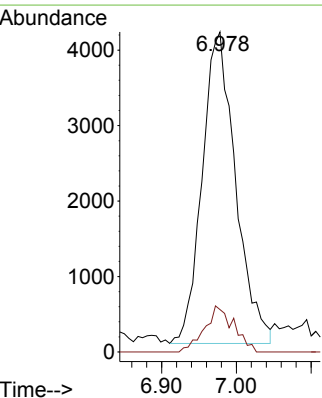
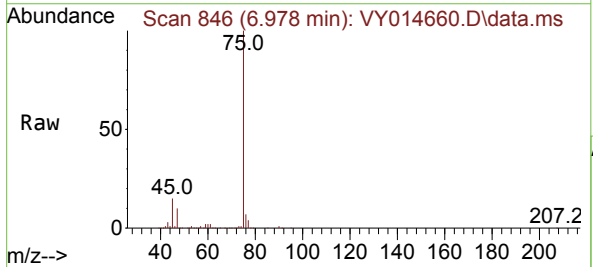
Ion	Ratio	Lower	Upper
84	100		
49	116.2	106.9	160.3
51	34.6	33.2	49.8
86	59.7	51.0	76.6

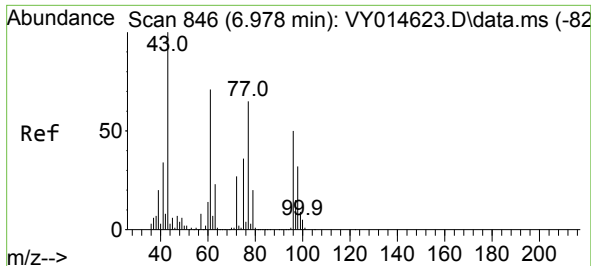


#25
2-Butanone
Concen: 9.180 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Tgt Ion: 43 Resp: 12847

Ion	Ratio	Lower	Upper
43	100		
72	13.6	20.5	30.7#

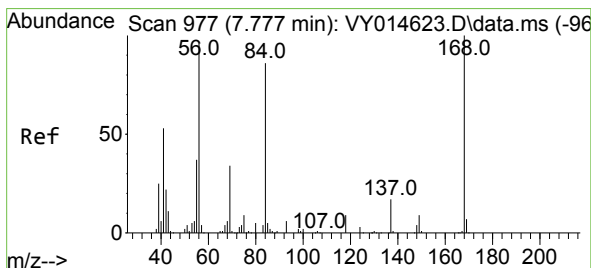
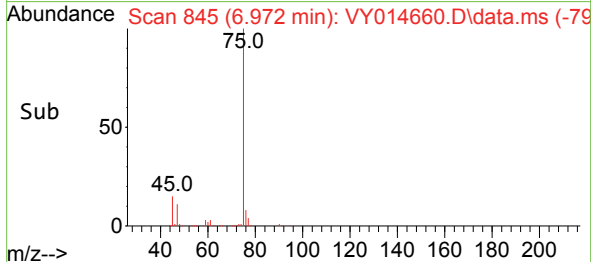
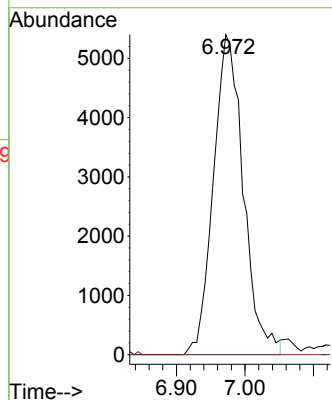
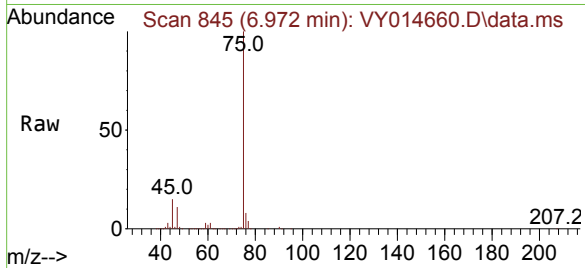




#26
2,2-Dichloropropane
Concen: 3.188 ug/l
RT: 6.972 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

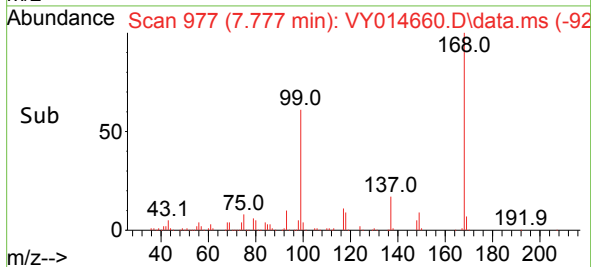
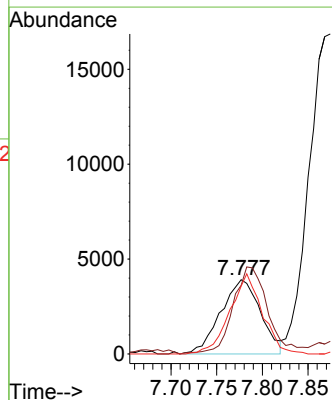
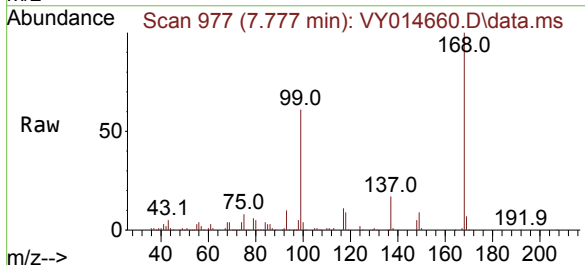
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

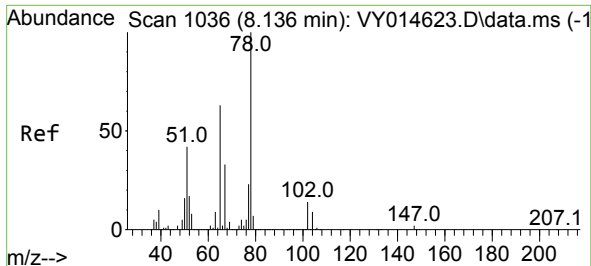
Tgt Ion: 77 Resp: 16370
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



#31
Cyclohexane
Concen: 2.368 ug/l
RT: 7.777 min Scan# 977
Delta R.T. -0.000 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Tgt Ion: 56 Resp: 11867
Ion Ratio Lower Upper
56 100
69 92.4 27.8 41.6#
84 91.3 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 52.939 ug/l

RT: 8.143 min Scan# 1

Delta R.T. 0.007 min

Lab File: VY014660.D

Acq: 14 Jul 2023 20:13

Instrument :

MSVOA_Y

ClientSampleId :

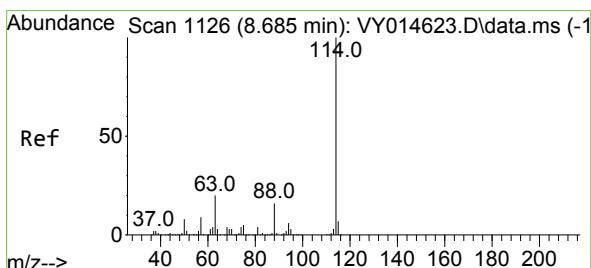
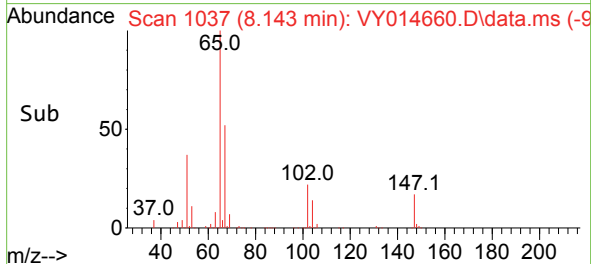
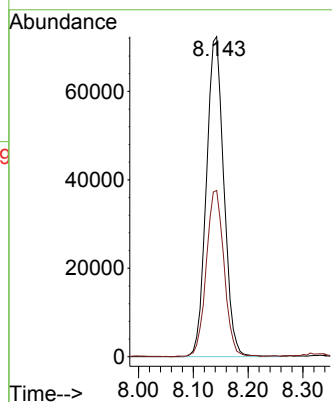
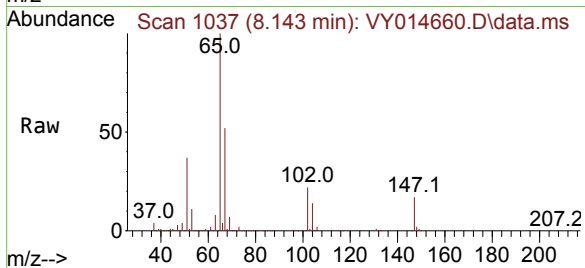
VIBLK

Tgt Ion: 65 Resp: 159796

Ion Ratio Lower Upper

65 100

67 53.2 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: VY014660.D

Acq: 14 Jul 2023 20:13

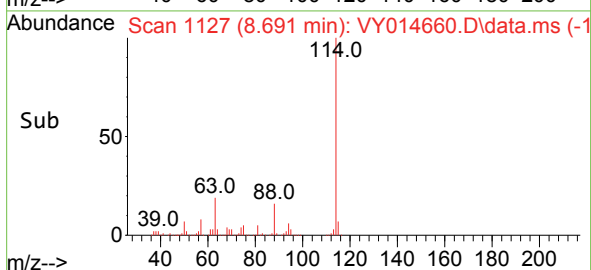
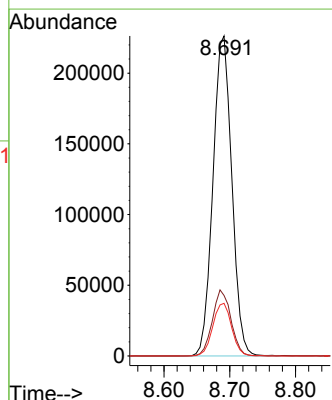
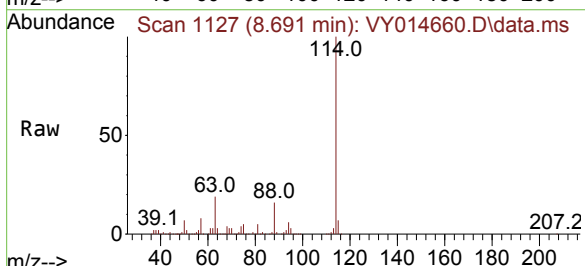
Tgt Ion:114 Resp: 452093

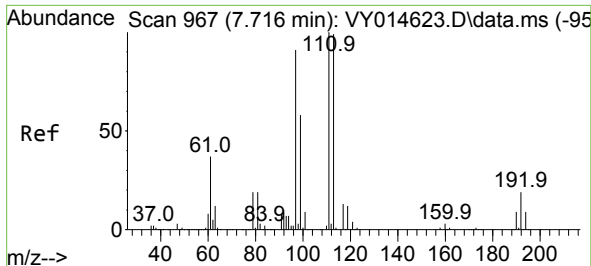
Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.4

88 16.4 0.0 30.6

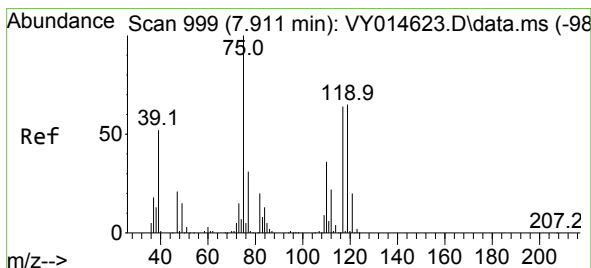
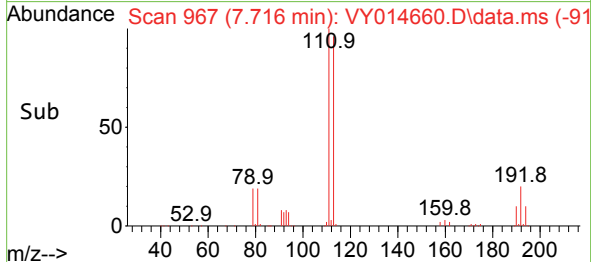
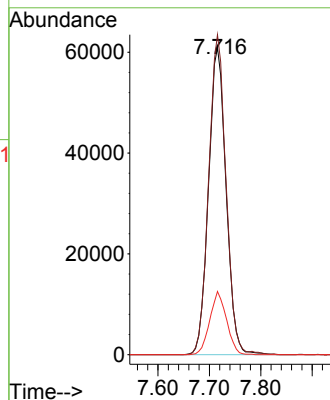
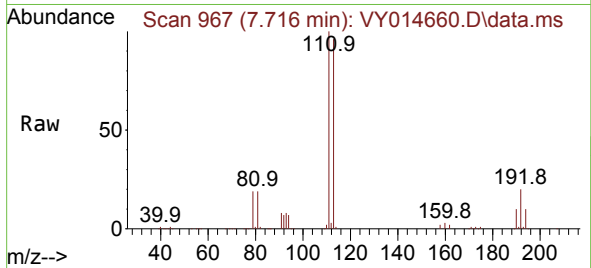




#35
Dibromofluoromethane
Concen: 50.198 ug/l
RT: 7.716 min Scan# 911
Delta R.T. -0.000 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

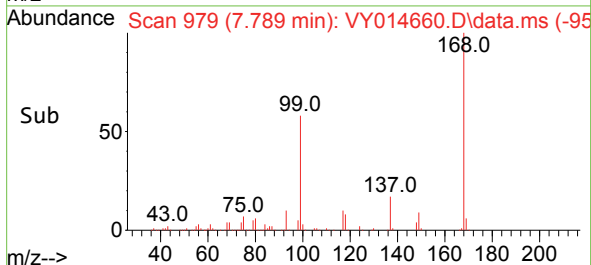
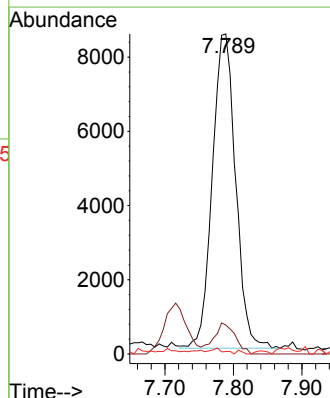
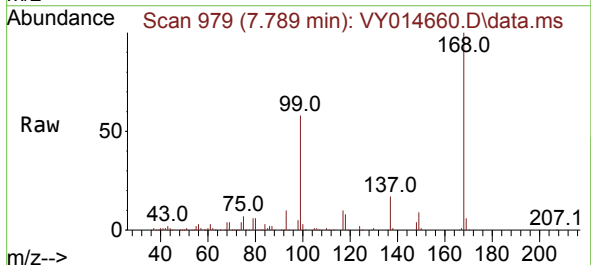
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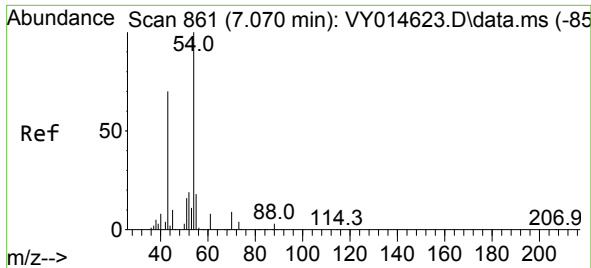
Tgt Ion:113 Resp: 144467
Ion Ratio Lower Upper
113 100
111 102.9 81.3 121.9
192 19.7 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.644 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.122 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Tgt Ion: 75 Resp: 19988
Ion Ratio Lower Upper
75 100
110 9.0 17.8 53.5#
77 1.0 24.4 36.6#

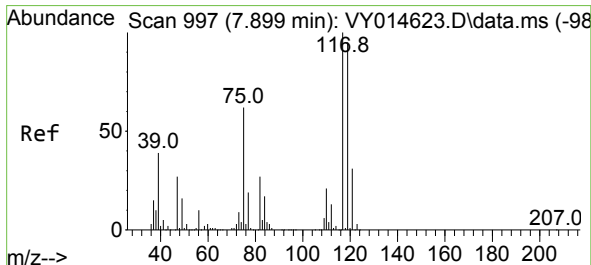
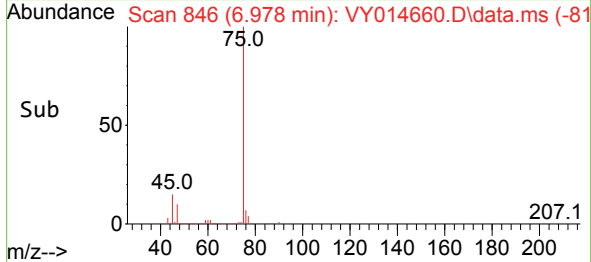
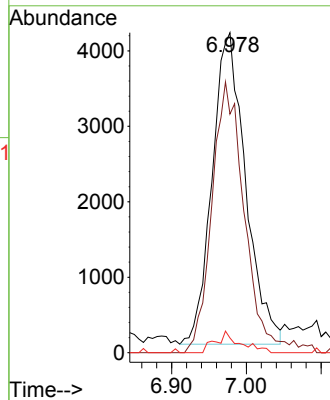
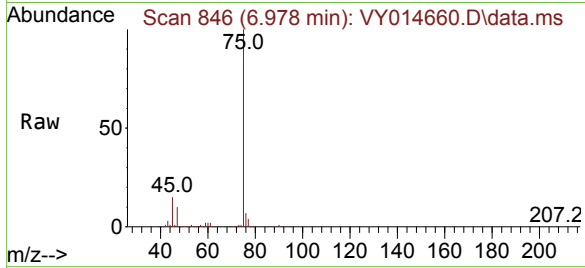




#37
Ethyl Acetate
Concen: 4.336 ug/l
RT: 6.978 min Scan# 84
Delta R.T. -0.092 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

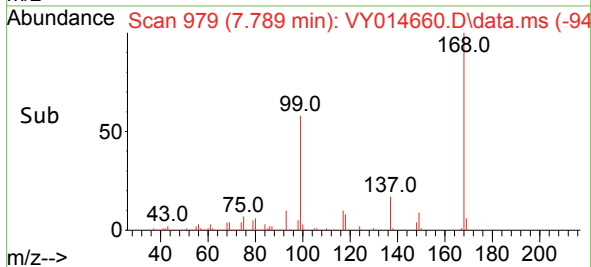
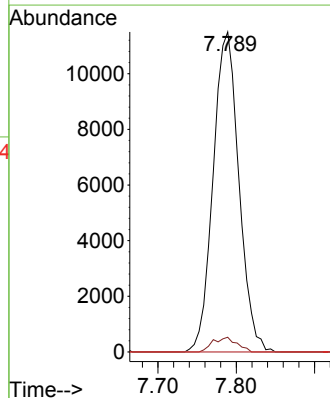
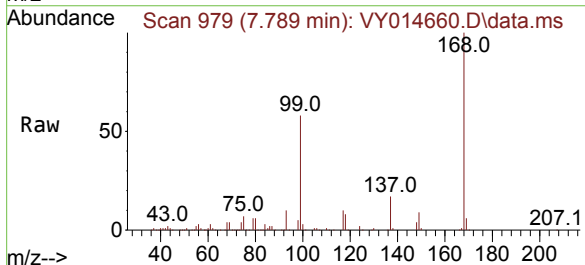
Instrument :
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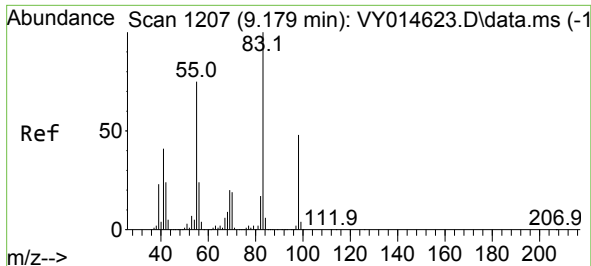
Tgt Ion: 43 Resp: 12847
Ion Ratio Lower Upper
43 100
61 85.1 10.1 15.1#
70 5.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 5.783 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.110 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Tgt Ion: 117 Resp: 26312
Ion Ratio Lower Upper
117 100
119 4.6 76.4 114.6#
121 0.0 25.8 38.6#

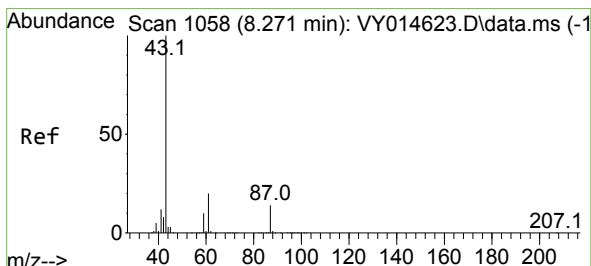
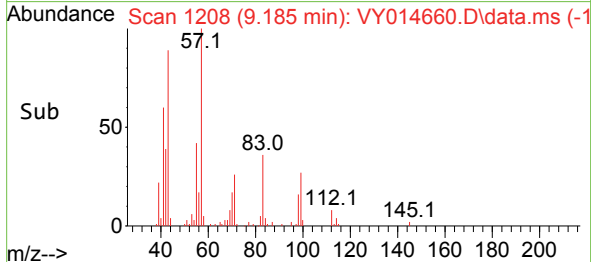
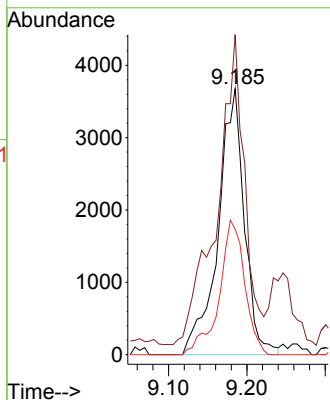
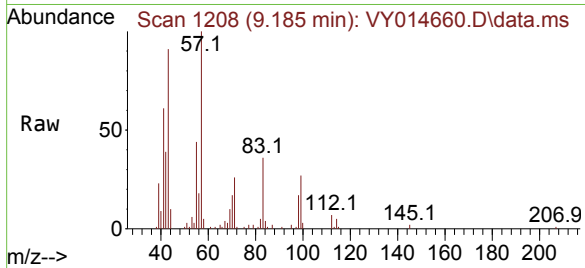




#39
Methylcyclohexane
Concen: 1.528 ug/l
RT: 9.185 min Scan# 111
Delta R.T. 0.006 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

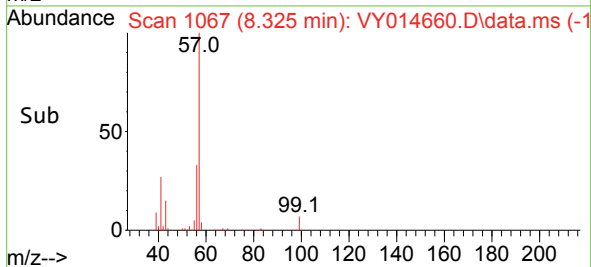
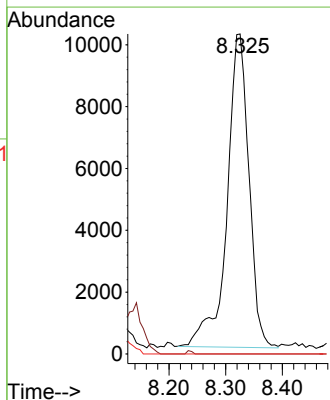
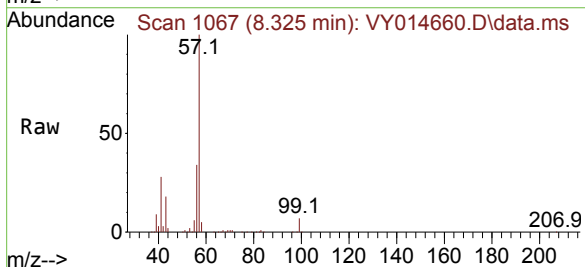
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

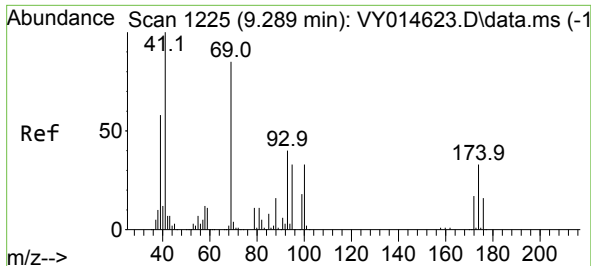
Tgt Ion: 83 Resp: 8569
Ion Ratio Lower Upper
83 100
55 114.6 63.0 94.4#
98 47.2 37.4 56.2



#43
Isopropyl Acetate
Concen: 4.829 ug/l
RT: 8.325 min Scan# 1067
Delta R.T. 0.054 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Tgt Ion: 43 Resp: 27257
Ion Ratio Lower Upper
43 100
61 0.0 21.1 31.7#
87 0.0 9.8 14.8#

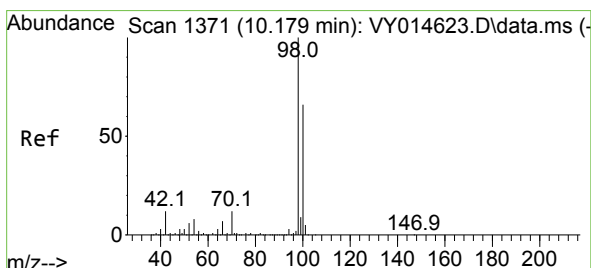
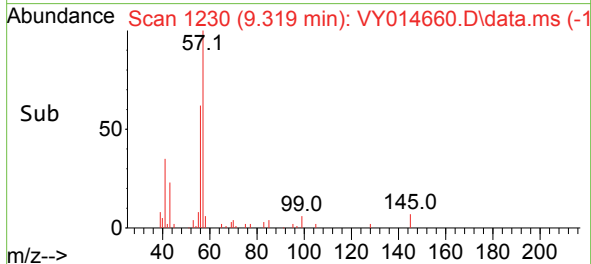
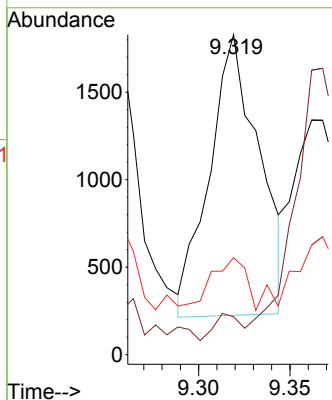
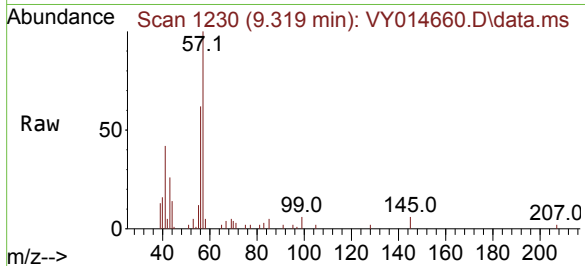




#48
Methyl methacrylate
Concen: 1.192 ug/l
RT: 9.319 min Scan# 11
Delta R.T. 0.030 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

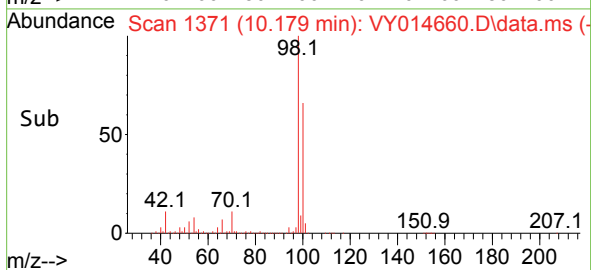
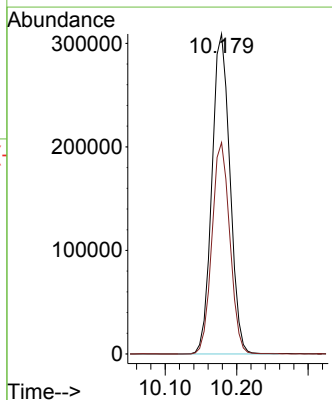
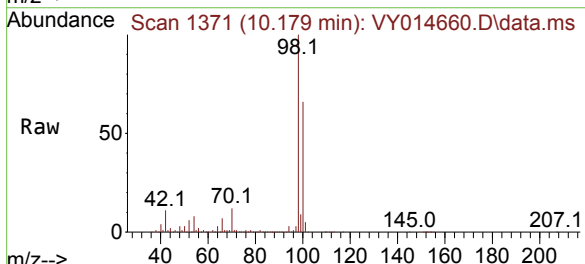
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

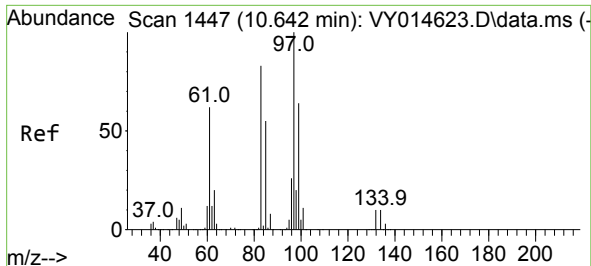
Tgt Ion: 41 Resp: 3028
Ion Ratio Lower Upper
41 100
69 5.2 64.5 96.7#
39 19.9 50.8 76.2#



#50
Toluene-d8
Concen: 50.947 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Tgt Ion: 98 Resp: 540562
Ion Ratio Lower Upper
98 100
100 65.6 50.1 75.1

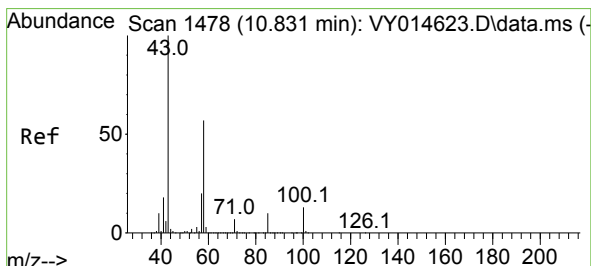
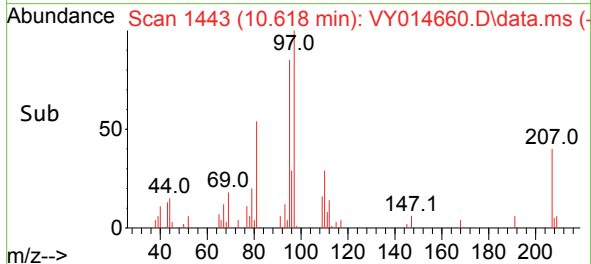
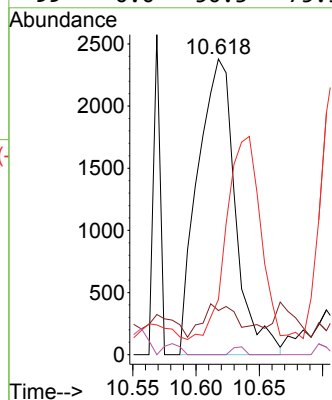
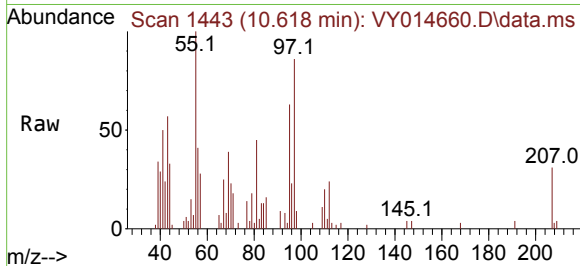




#55
1,1,2-Trichloroethane
Concen: 1.830 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.024 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

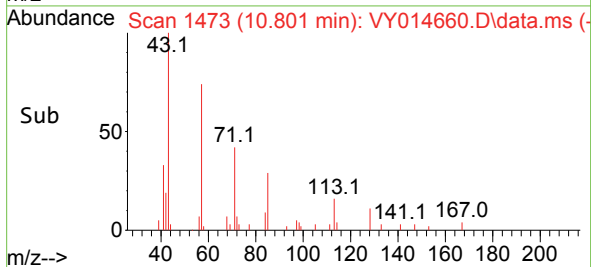
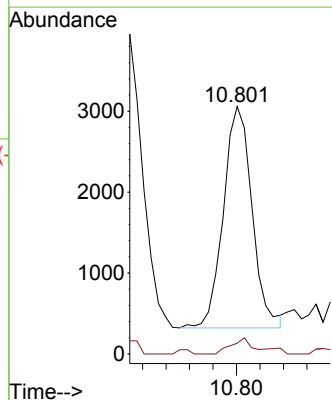
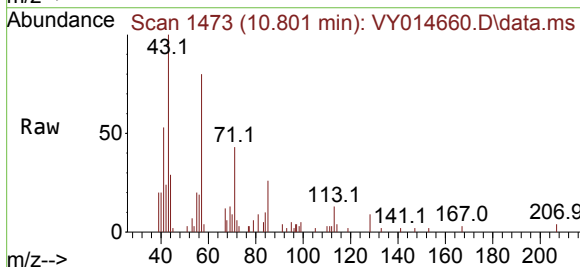
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

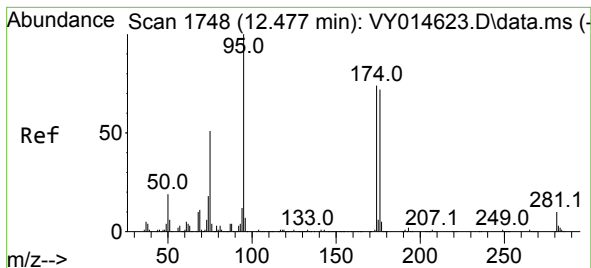
Tgt Ion: 97 Resp: 4943
Ion Ratio Lower Upper
97 100
83 4.8 72.0 108.0#
85 12.7 45.4 68.0#
99 0.0 50.3 75.5#



#59
2-Hexanone
Concen: 2.146 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.030 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Tgt Ion: 43 Resp: 4638
Ion Ratio Lower Upper
43 100
58 5.0 25.1 75.3#

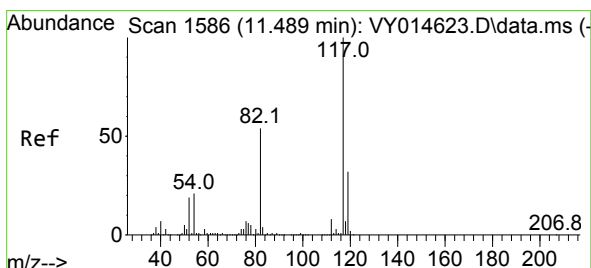
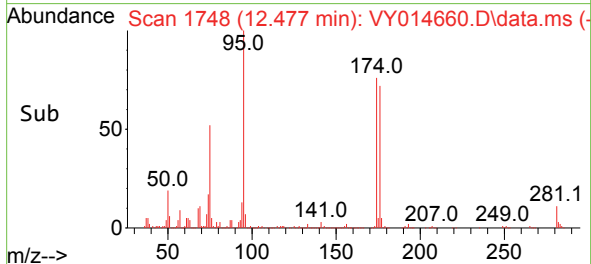
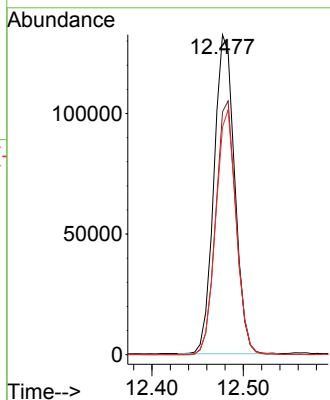
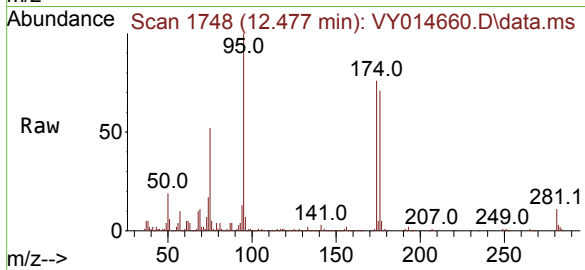




#62
4-Bromofluorobenzene
Concen: 51.177 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

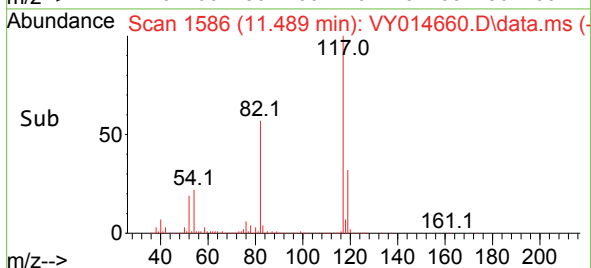
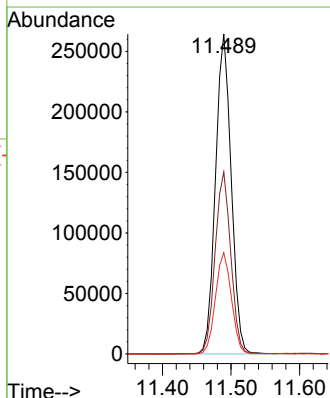
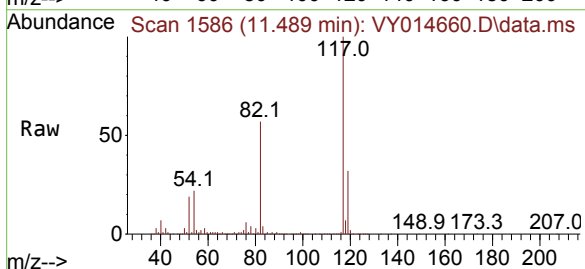
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

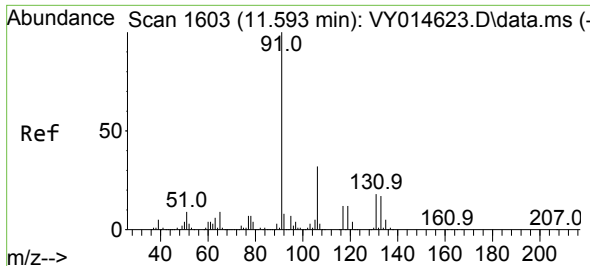
Tgt Ion: 95 Resp: 208208
Ion Ratio Lower Upper
95 100
174 78.3 0.0 178.2
176 75.9 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Tgt Ion: 117 Resp: 420503
Ion Ratio Lower Upper
117 100
82 56.7 43.4 65.0
119 31.6 26.3 39.5

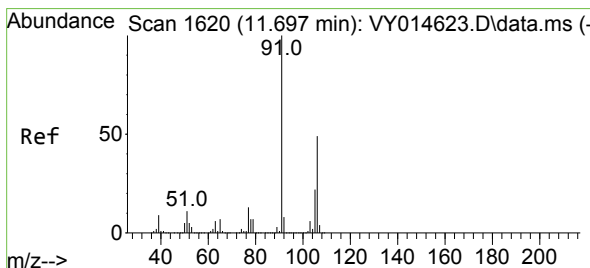
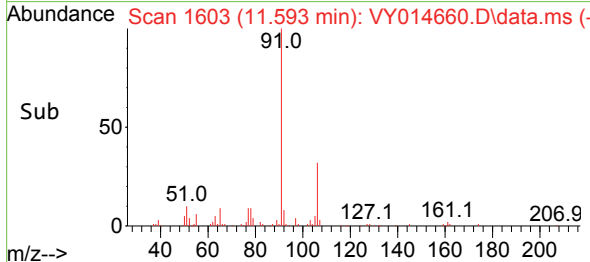
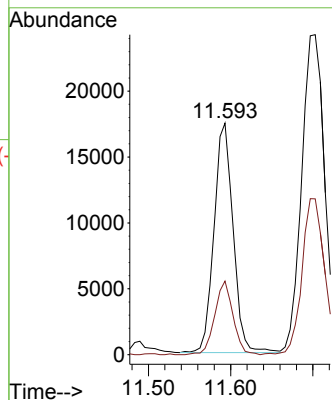
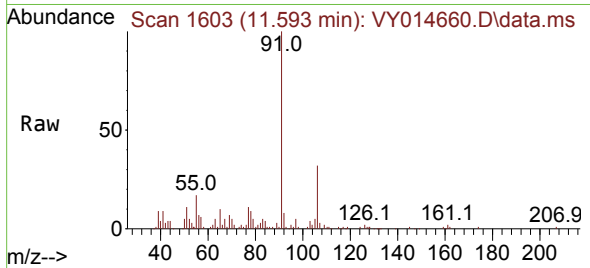




#67
Ethyl Benzene
Concen: 1.737 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.000 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

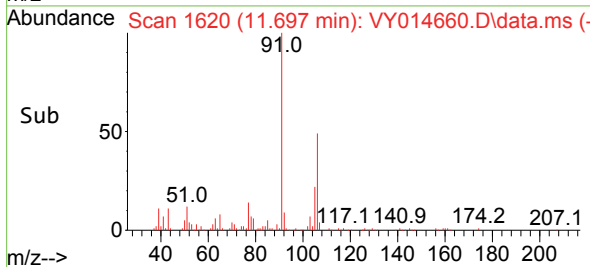
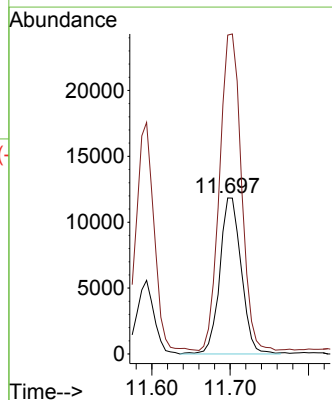
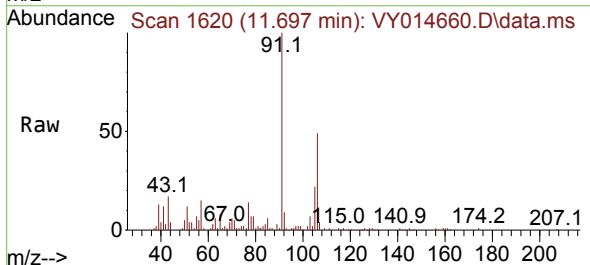
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

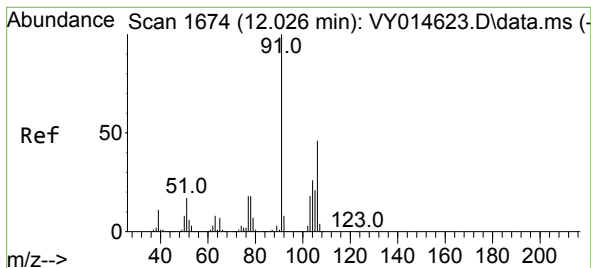
Tgt Ion: 91 Resp: 28105
Ion Ratio Lower Upper
91 100
106 32.1 24.6 36.8



#68
m/p-Xylenes
Concen: 3.657 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Tgt Ion:106 Resp: 22584
Ion Ratio Lower Upper
106 100
91 205.0 166.1 249.1





#69

o-Xylene

Concen: 1.102 ug/l

RT: 12.032 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY014660.D

Acq: 14 Jul 2023 20:13

Instrument :

MSVOA_Y

ClientSampleId :

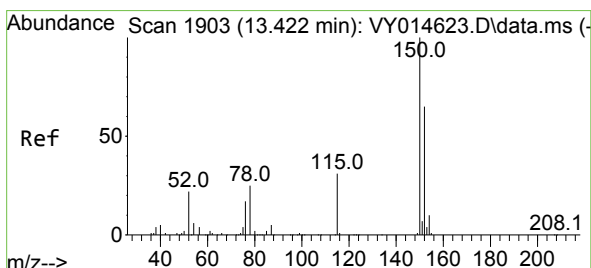
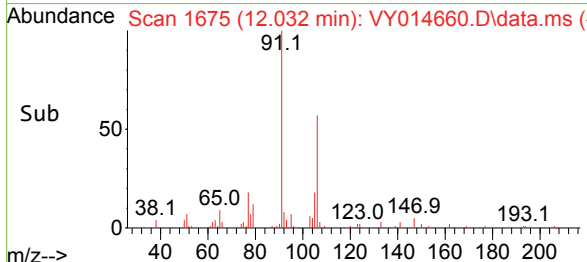
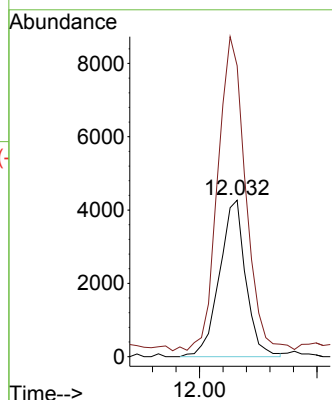
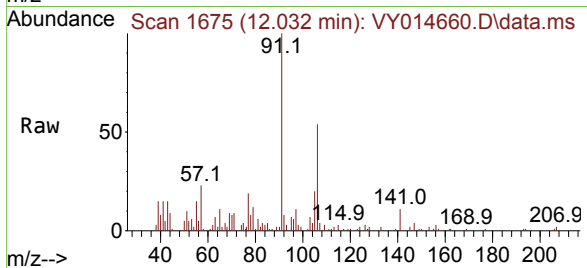
VIBLK

Tgt Ion:106 Resp: 6630

Ion Ratio Lower Upper

106 100

91 212.0 108.1 324.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY014660.D

Acq: 14 Jul 2023 20:13

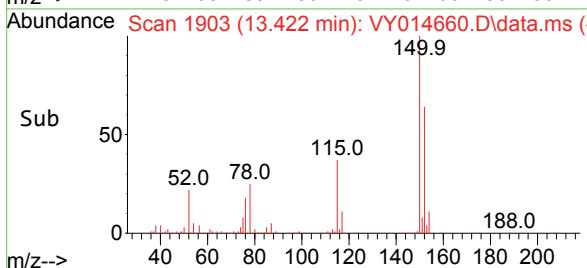
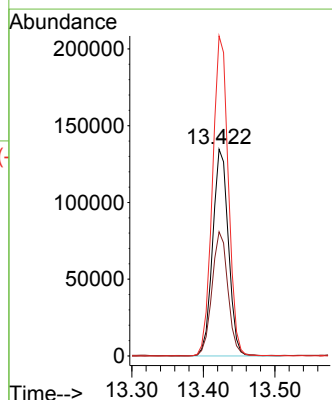
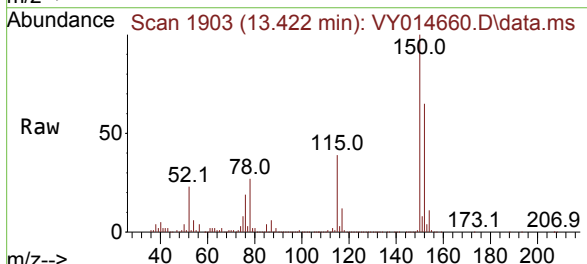
Tgt Ion:152 Resp: 205759

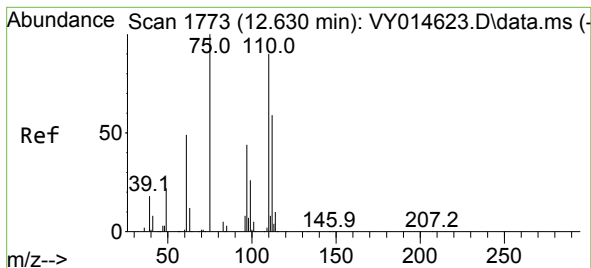
Ion Ratio Lower Upper

152 100

115 60.7 28.8 86.5

150 155.5 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 41.648 ug/l

RT: 12.477 min Scan# 11

Delta R.T. -0.153 min

Lab File: VY014660.D

Acq: 14 Jul 2023 20:13

Instrument :

MSVOA_Y

ClientSampleId :

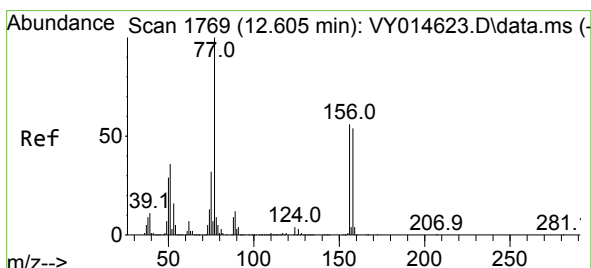
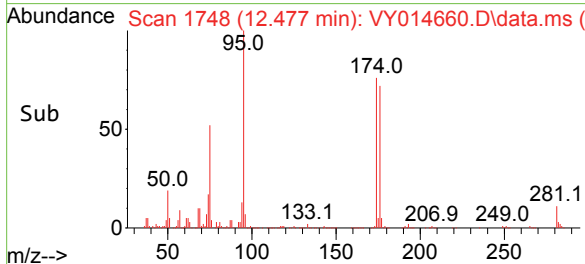
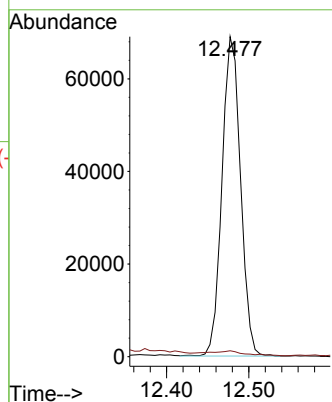
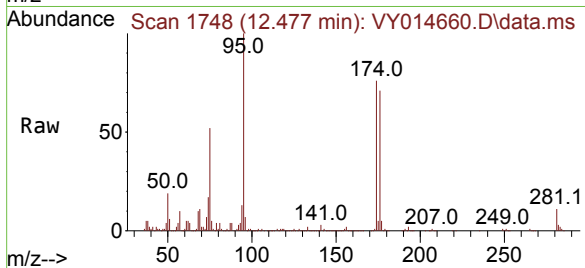
VIBLK

Tgt Ion: 75 Resp: 108229

Ion Ratio Lower Upper

75 100

77 2.9 0.0 0.0#



#77

Bromobenzene

Concen: 3.537 ug/l

RT: 12.373 min Scan# 1731

Delta R.T. -0.232 min

Lab File: VY014660.D

Acq: 14 Jul 2023 20:13

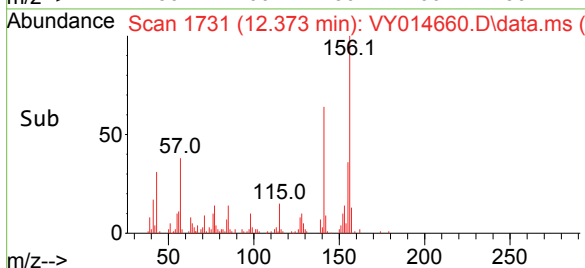
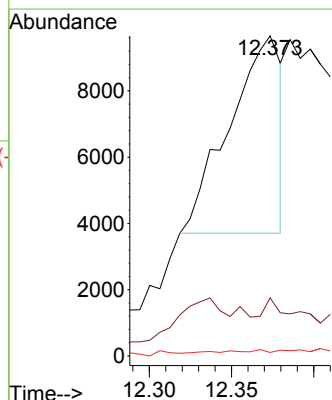
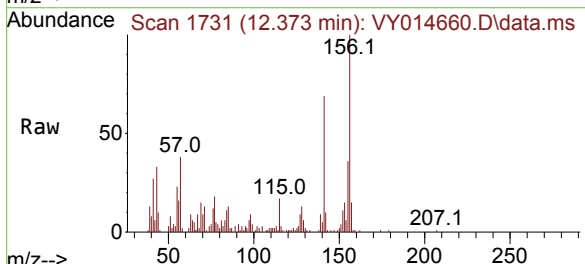
Tgt Ion: 156 Resp: 13007

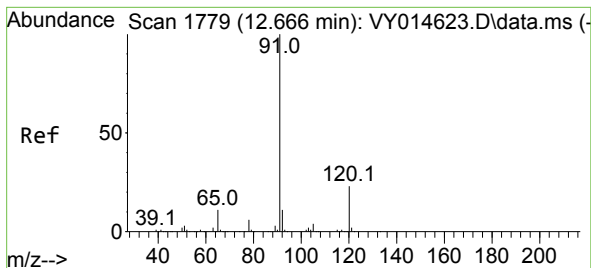
Ion Ratio Lower Upper

156 100

77 12.5 92.8 278.6#

158 1.2 48.4 145.3#





#78

n-propylbenzene

Concen: 2.965 ug/l

RT: 12.672 min Scan# 1779

Delta R.T. 0.006 min

Lab File: VY014660.D

Acq: 14 Jul 2023 20:13

Instrument :

MSVOA_Y

ClientSampleId :

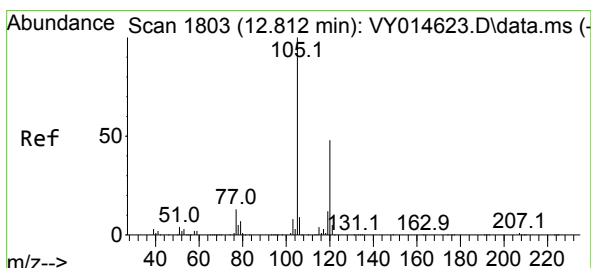
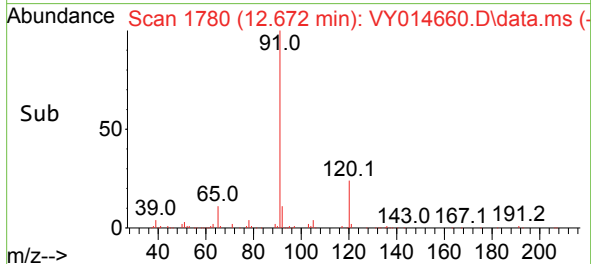
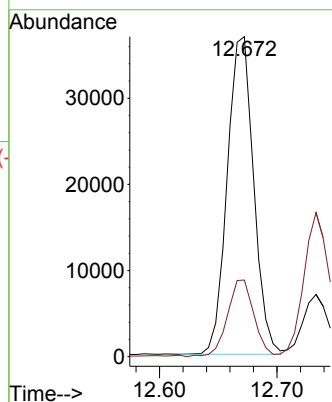
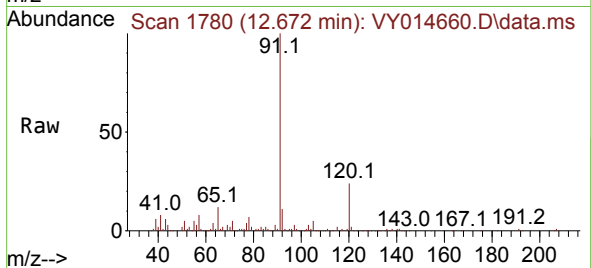
VIBLK

Tgt Ion: 91 Resp: 57555

Ion Ratio Lower Upper

91 100

120 24.3 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 3.558 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. 0.000 min

Lab File: VY014660.D

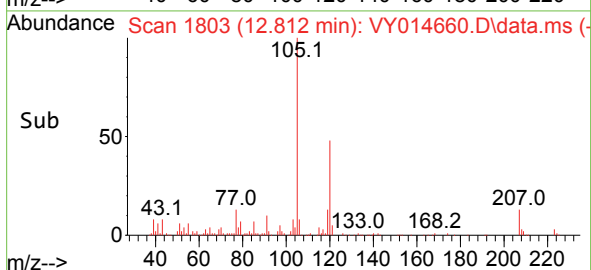
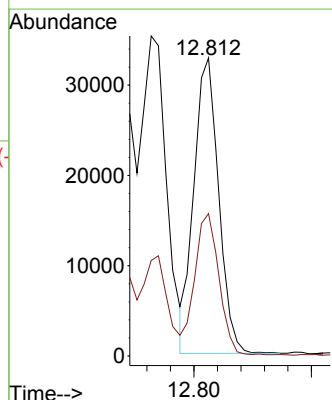
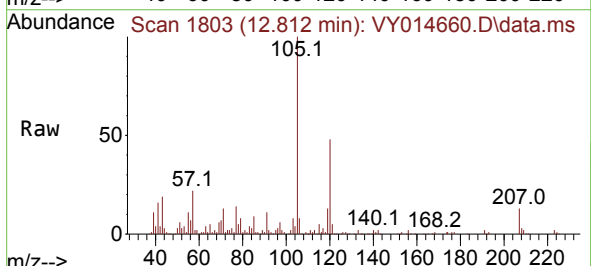
Acq: 14 Jul 2023 20:13

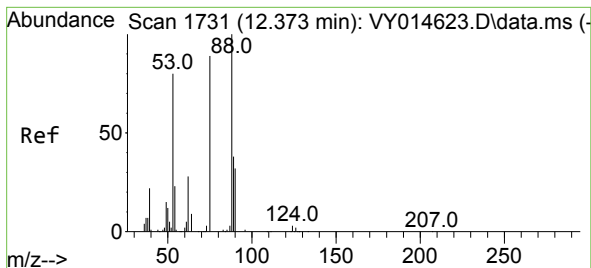
Tgt Ion:105 Resp: 47867

Ion Ratio Lower Upper

105 100

120 47.5 23.9 71.7

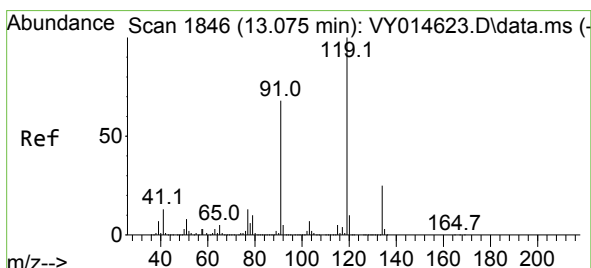
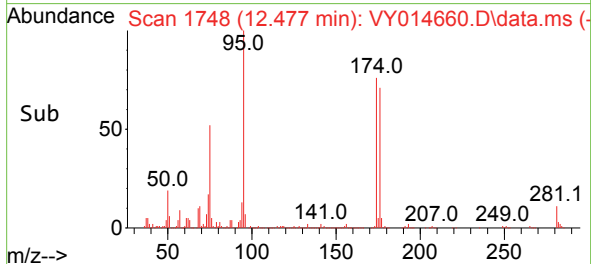
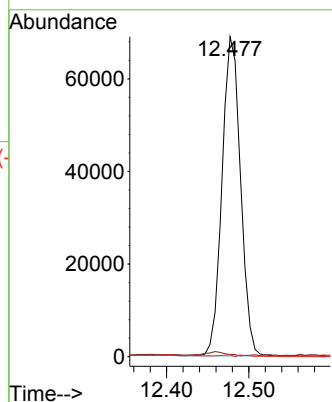
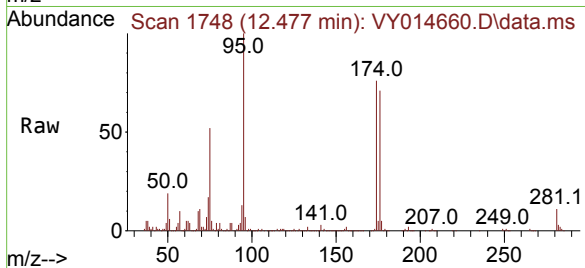




#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.637 ug/l
 RT: 12.477 min Scan# 1
 Delta R.T. 0.104 min
 Lab File: VY014660.D
 Acq: 14 Jul 2023 20:13

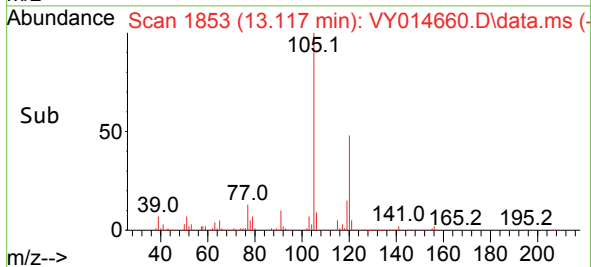
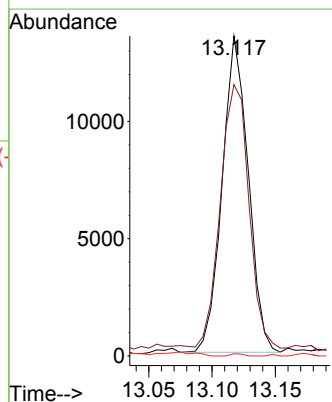
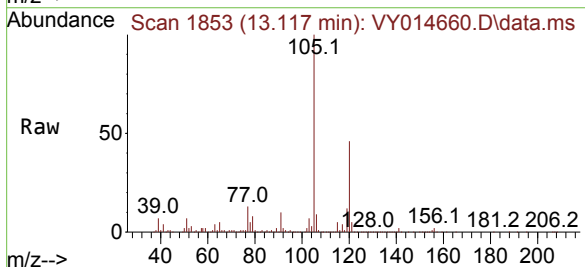
Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

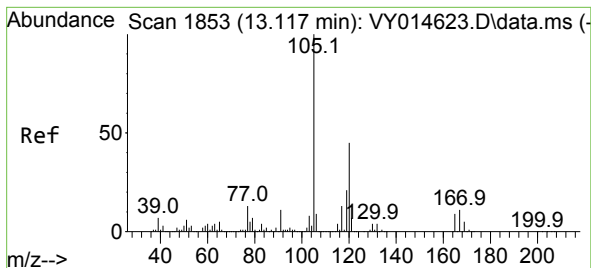
Tgt Ion: 75 Resp: 108229
 Ion Ratio Lower Upper
 75 100
 53 1.5 77.8 116.8#
 89 0.3 37.4 56.0#



#83
 tert-Butylbenzene
 Concen: 1.617 ug/l
 RT: 13.117 min Scan# 1853
 Delta R.T. 0.042 min
 Lab File: VY014660.D
 Acq: 14 Jul 2023 20:13

Tgt Ion: 119 Resp: 19302
 Ion Ratio Lower Upper
 119 100
 91 90.7 32.9 98.6
 134 0.0 13.0 38.9#





#84

1,2,4-Trimethylbenzene

Concen: 12.419 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY014660.D

Acq: 14 Jul 2023 20:13

Instrument :

MSVOA_Y

ClientSampleId :

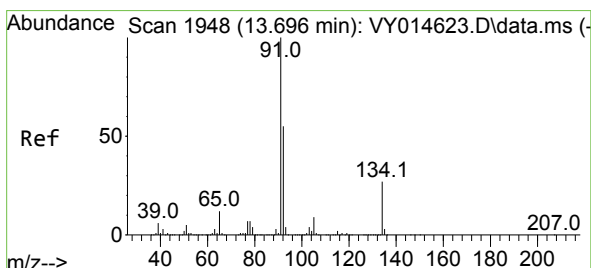
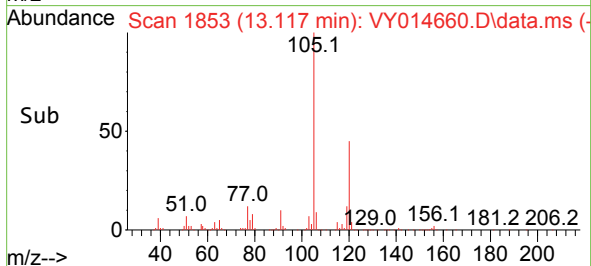
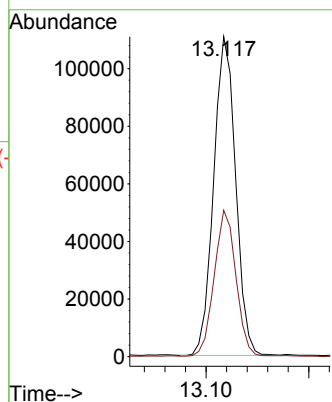
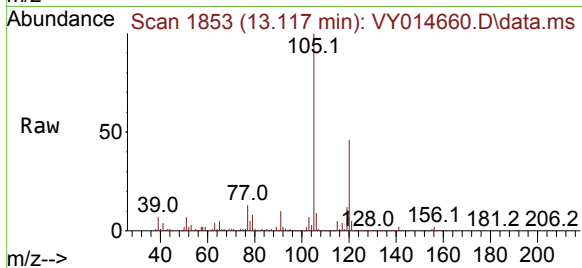
VIBLK

Tgt Ion:105 Resp: 163985

Ion Ratio Lower Upper

105 100

120 45.5 22.2 66.6



#89

n-Butylbenzene

Concen: 3.118 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VY014660.D

Acq: 14 Jul 2023 20:13

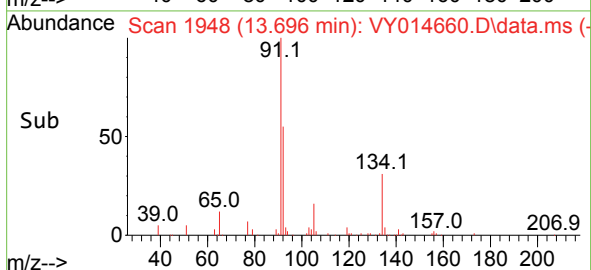
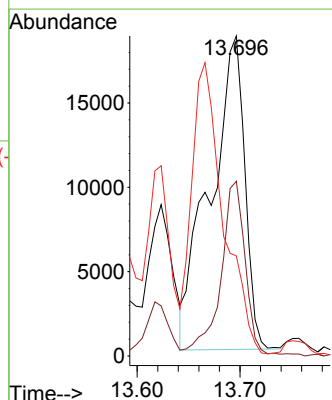
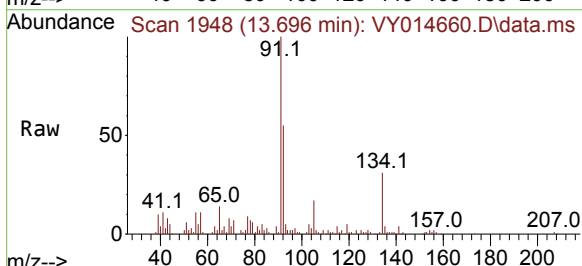
Tgt Ion: 91 Resp: 43362

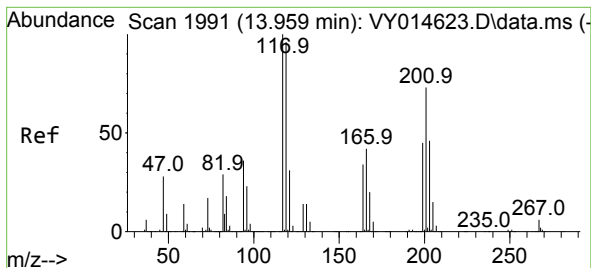
Ion Ratio Lower Upper

91 100

92 39.8 25.4 76.0

134 0.0 12.6 37.6#

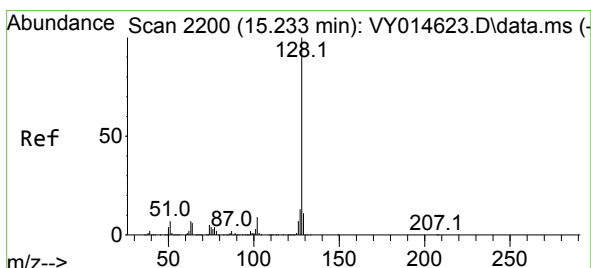
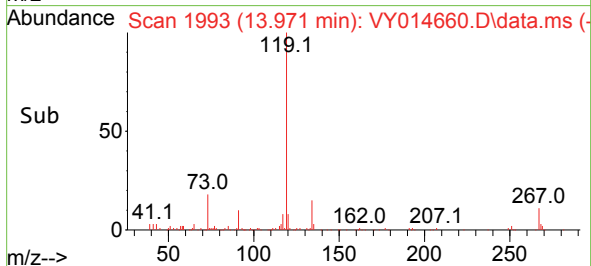
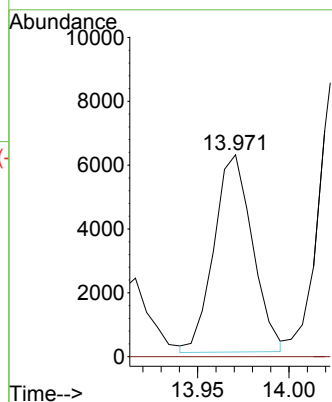
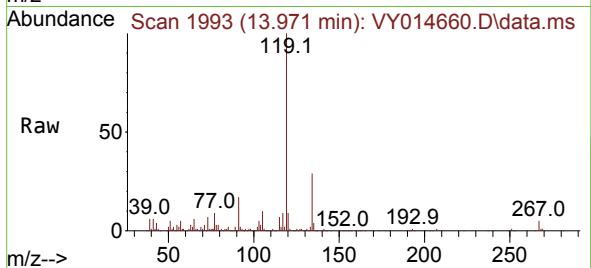




#90
Hexachloroethane
Concen: 3.089 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

Tgt Ion:117 Resp: 9071
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



#95
Naphthalene
Concen: 16.940 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY014660.D
Acq: 14 Jul 2023 20:13

Tgt Ion:128 Resp: 164286
Ion Ratio Lower Upper
128 100
127 13.3 10.8 16.2
129 11.6 8.6 13.0

