

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY011723\
 Data File : VY012219.D
 Acq On : 17 Jan 2023 13:03
 Operator : KP/MD
 Sample : 01159-04
 Misc : 4.60g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MH-6

Quant Time: Jan 18 00:32:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y011623S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 04:31:47 2023
 Response via : Initial Calibration

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

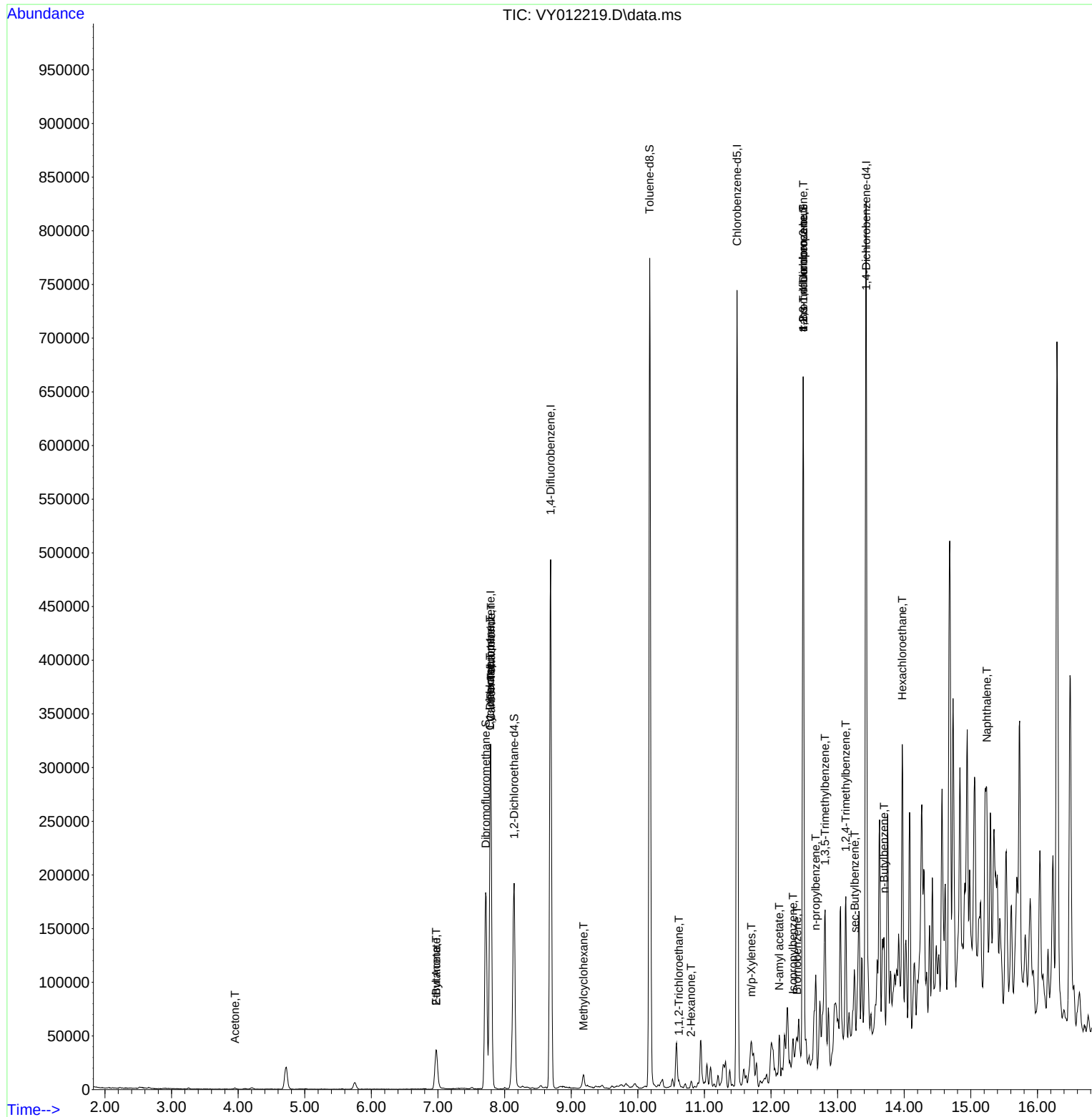
Internal Standards						
1) Pentafluorobenzene	7.789	168	256661	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	428105	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	419695	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	209542	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	142391	68.376	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 136.760%			
35) Dibromofluoromethane	7.716	113	129049	56.930	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 113.860%			
50) Toluene-d8	10.179	98	507973	66.068	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 132.140%			
62) 4-Bromofluorobenzene	12.483	95	189209	59.211	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 118.420%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.942	59	581	Below Cal	#	74
16) Acetone	3.954	43	1715	2.400	ug/l	91
20) Methylene Chloride	4.716	84	16635	Below Cal		88
25) 2-Butanone	6.972	43	1810	2.294	ug/l #	83
31) Cyclohexane	7.783	56	4908	1.312	ug/l #	1
36) 1,1-Dichloropropene	7.783	75	17546	4.554	ug/l #	49
37) Ethyl Acetate	6.972	43	1810	1.066	ug/l #	1
38) Carbon Tetrachloride	7.795	117	25046	5.034	ug/l #	18
39) Methylcyclohexane	9.185	83	5026	1.068	ug/l	95
55) 1,1,2-Trichloroethane	10.617	97	2806	1.272	ug/l #	21
59) 2-Hexanone	10.800	43	2657	2.071	ug/l #	23
68) m/p-Xylenes	11.703	106	10782	1.777	ug/l	98
73) Isopropylbenzene	12.331	105	15797	1.045	ug/l	98
74) N-amyl acetate	12.123	43	7833	2.645	ug/l #	62
76) 1,2,3-Trichloropropane	12.483	75	98674	51.211	ug/l #	100
77) Bromobenzene	12.392	156	3935	1.082	ug/l #	1
78) n-propylbenzene	12.672	91	67097	3.795	ug/l	99
80) 1,3,5-Trimethylbenzene	12.812	105	16068	1.223	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.483	75	98674	105.517	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.123	105	71536	5.522	ug/l	98
85) sec-Butylbenzene	13.257	105	35001	2.147	ug/l	81
89) n-Butylbenzene	13.696	91	49491	4.010	ug/l #	78
90) Hexachloroethane	13.971	117	10675	4.152	ug/l #	9
95) Naphthalene	15.239	128	142065	17.409	ug/l	97

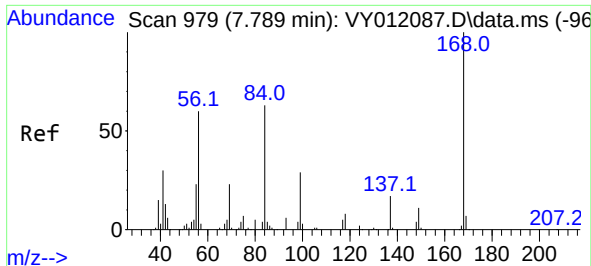
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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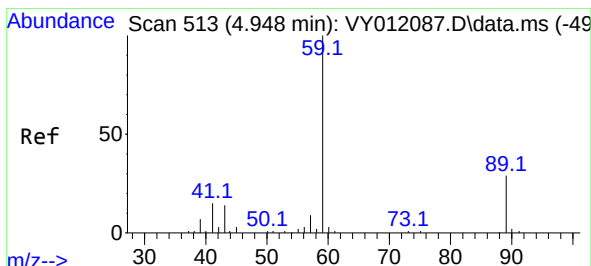
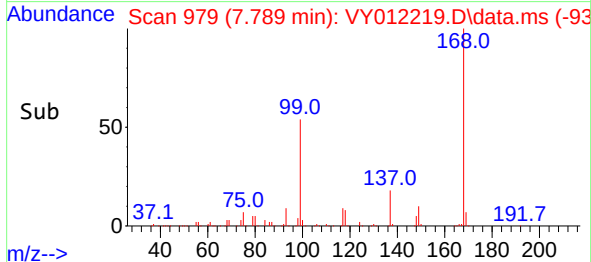
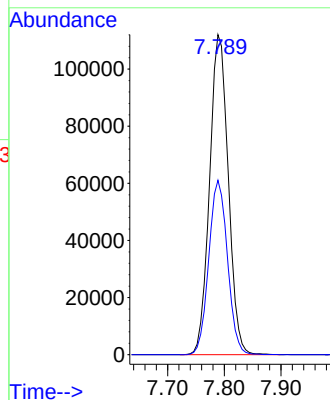
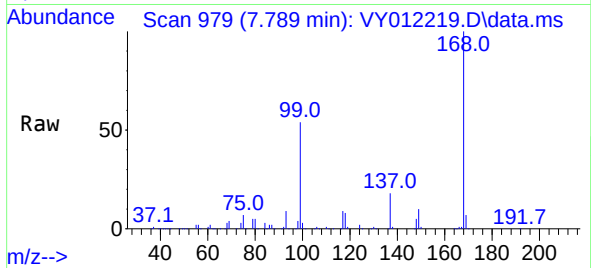




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

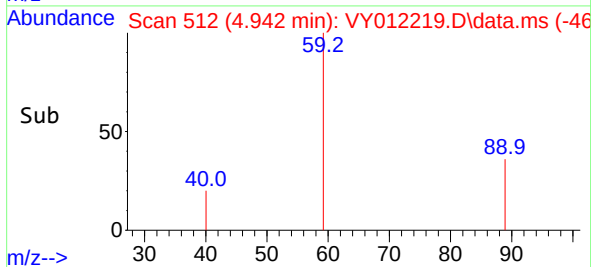
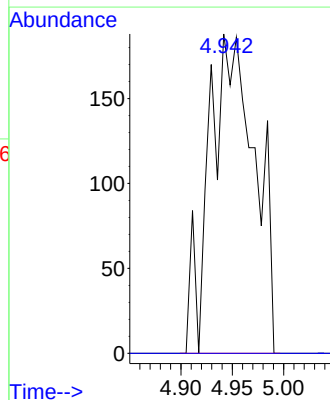
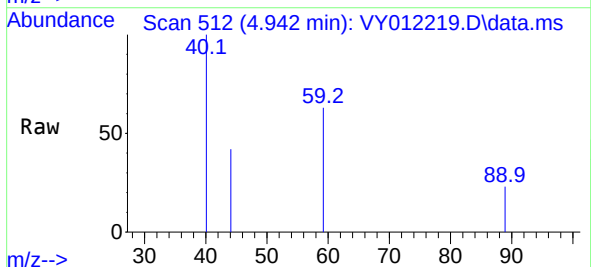
Instrument :
MSVOA_Y
ClientSampleId :
MH-6

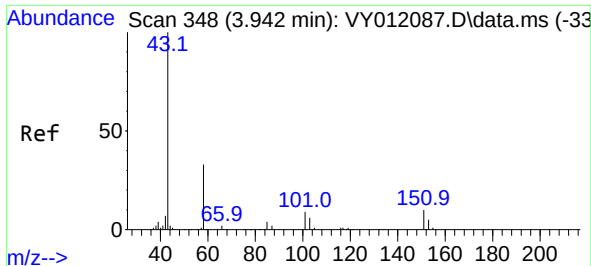
Tgt Ion:168 Resp: 256661
Ion Ratio Lower Upper
168 100
99 54.5 44.0 66.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.942 min Scan# 512
Delta R.T. -0.006 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion: 59 Resp: 581
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#

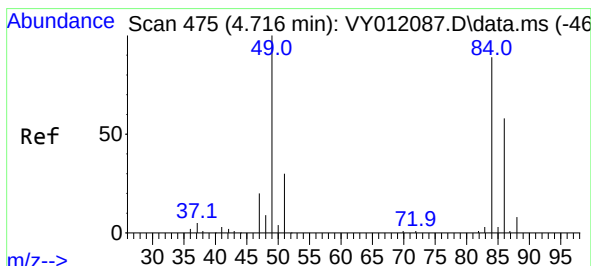
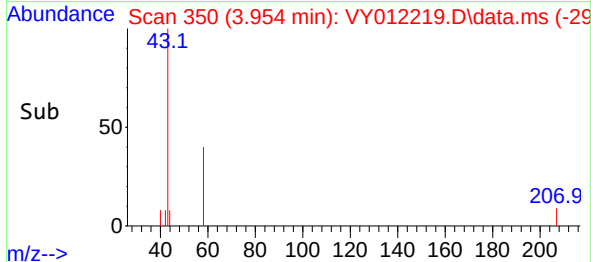
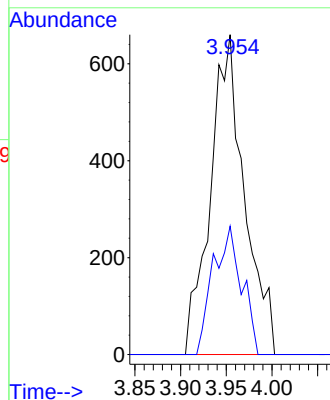
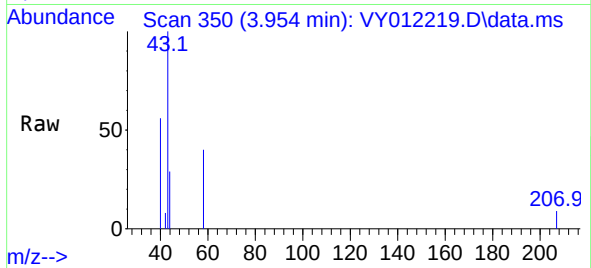




#16
Acetone
Concen: 2.400 ug/l
RT: 3.954 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

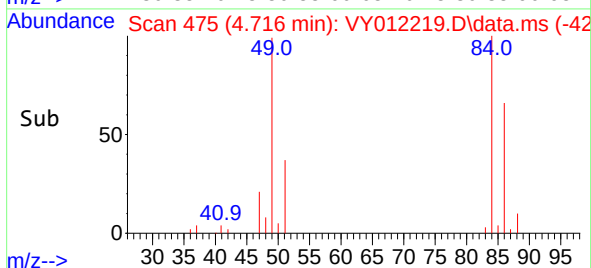
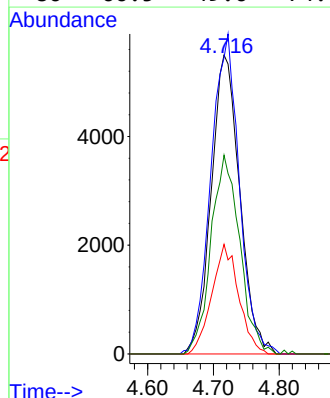
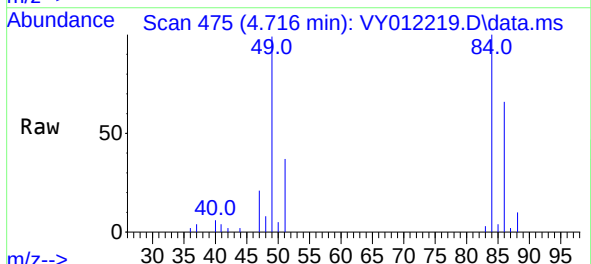
Instrument :
MSVOA_Y
ClientSampleId :
MH-6

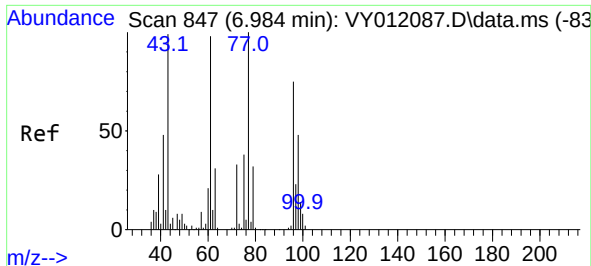
Tgt Ion: 43 Resp: 1715
Ion Ratio Lower Upper
43 100
58 40.2 27.9 41.9



#20
Methylene Chloride
Concen: Below Cal
RT: 4.716 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion: 84 Resp: 16635
Ion Ratio Lower Upper
84 100
49 99.1 95.4 143.2
51 36.6 29.9 44.9
86 66.5 49.6 74.4





#25

2-Butanone

Concen: 2.294 ug/l

RT: 6.972 min Scan# 84

Delta R.T. -0.012 min

Lab File: VY012219.D

Acq: 17 Jan 2023 13:03

Instrument :

MSVOA_Y

ClientSampleId :

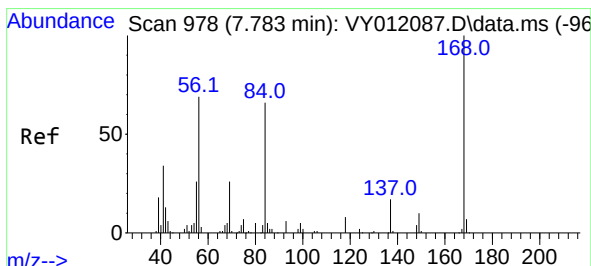
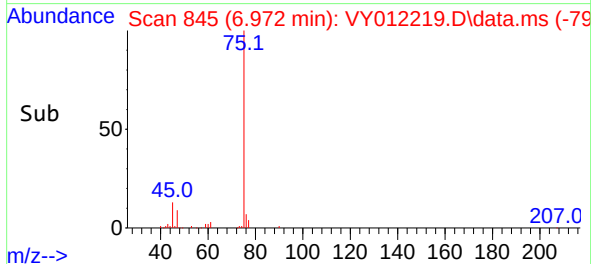
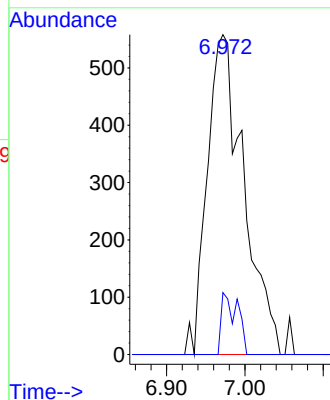
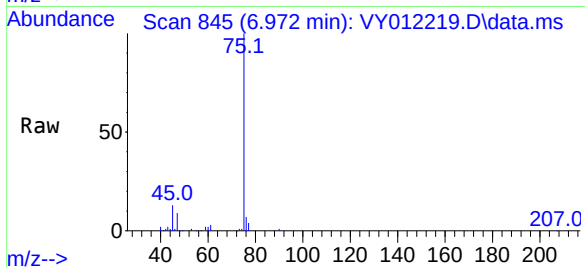
MH-6

Tgt Ion: 43 Resp: 1810

Ion Ratio Lower Upper

43 100

72 19.4 22.6 34.0#



#31

Cyclohexane

Concen: 1.312 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.000 min

Lab File: VY012219.D

Acq: 17 Jan 2023 13:03

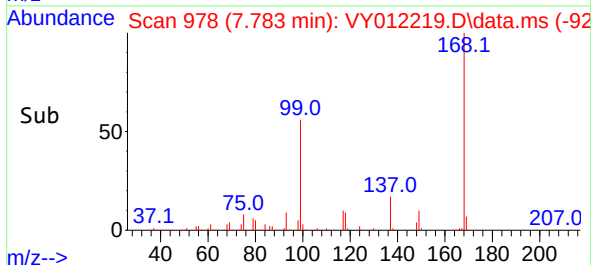
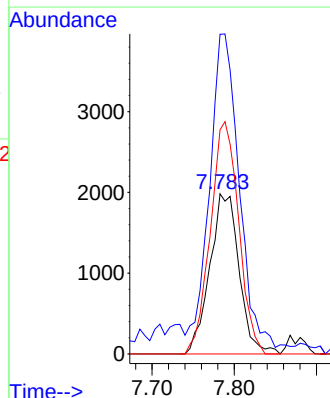
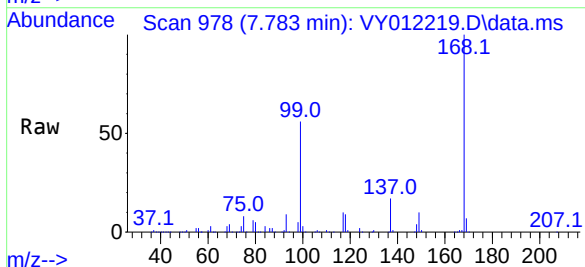
Tgt Ion: 56 Resp: 4908

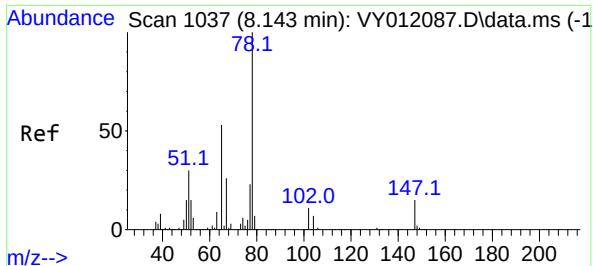
Ion Ratio Lower Upper

56 100

69 194.0 29.2 43.8#

84 140.1 72.6 108.8#





#33

1,2-Dichloroethane-d4

Concen: 68.376 ug/l

RT: 8.142 min Scan# 1037

Delta R.T. -0.001 min

Lab File: VY012219.D

Acq: 17 Jan 2023 13:03

Instrument :

MSVOA_Y

ClientSampleId :

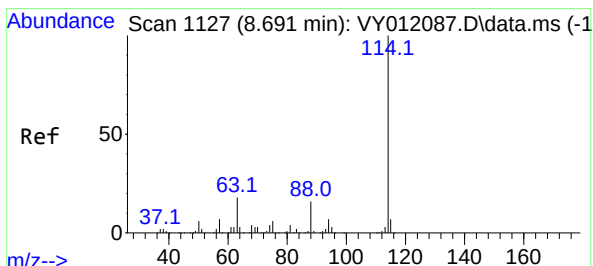
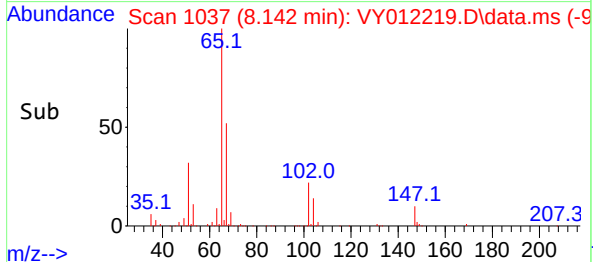
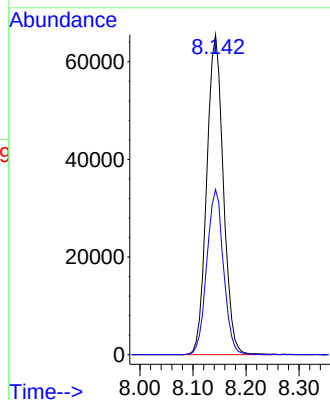
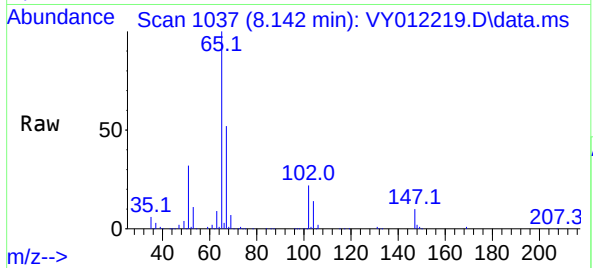
MH-6

Tgt Ion: 65 Resp: 142391

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY012219.D

Acq: 17 Jan 2023 13:03

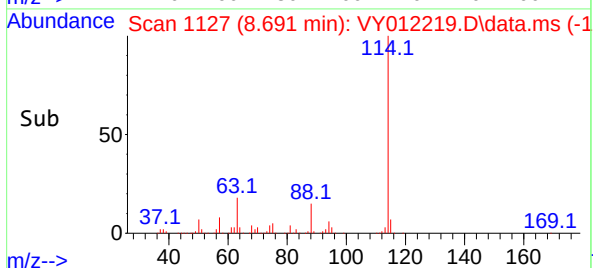
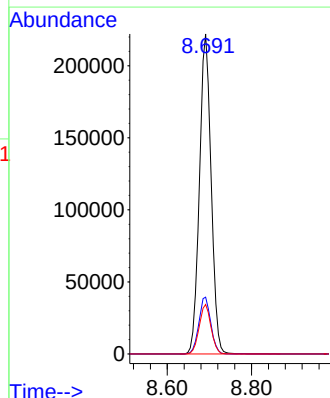
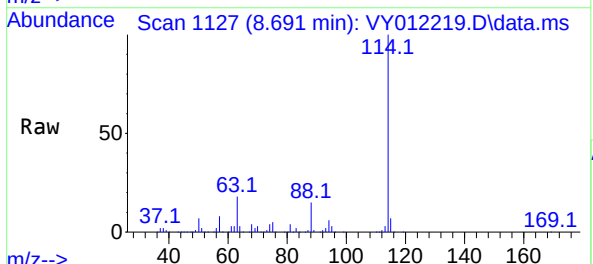
Tgt Ion: 114 Resp: 428105

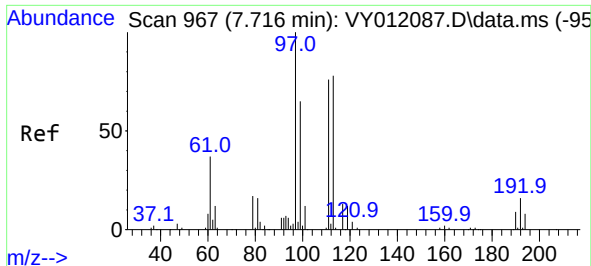
Ion Ratio Lower Upper

114 100

63 17.8 0.0 39.6

88 15.5 0.0 32.2

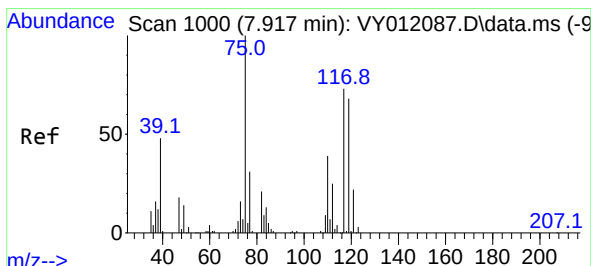
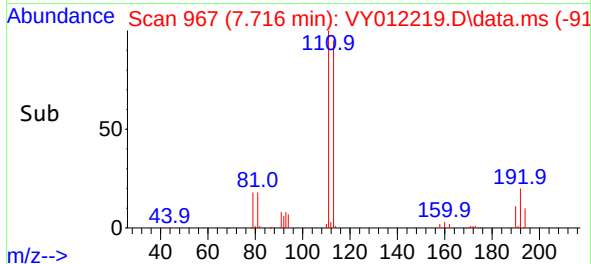
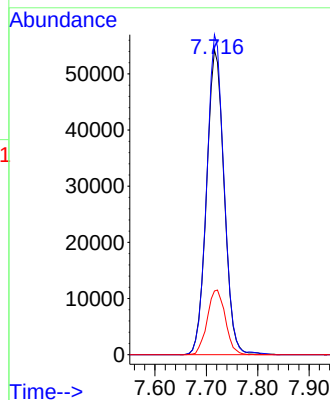
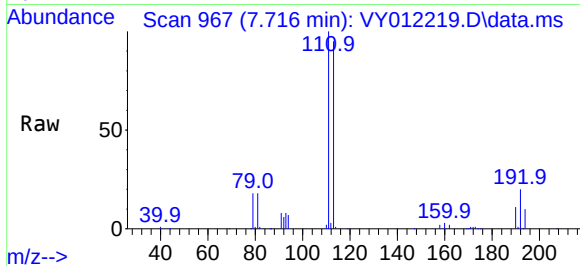




#35
Dibromofluoromethane
Concen: 56.930 ug/l
RT: 7.716 min Scan# 910
Delta R.T. -0.000 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

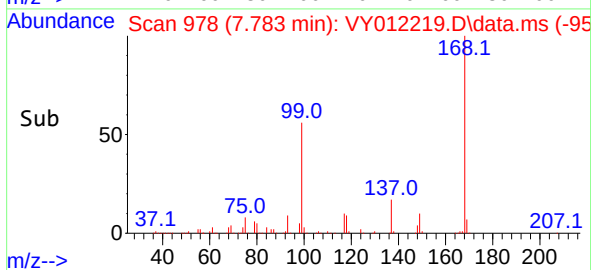
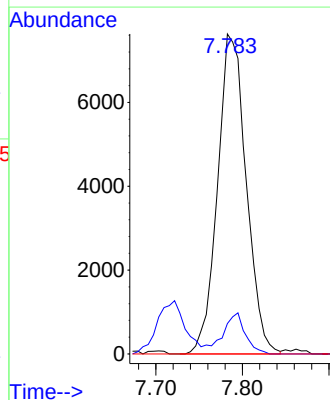
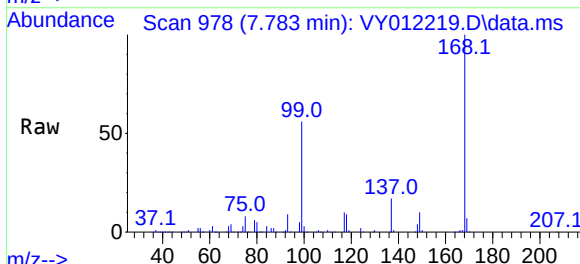
Instrument :
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MH-6

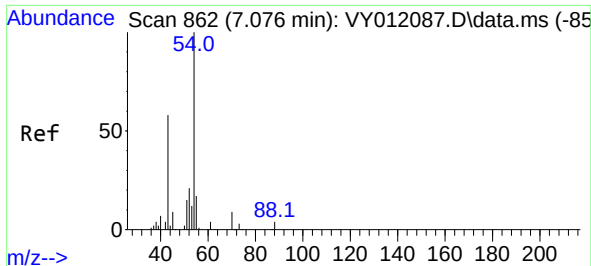
Tgt Ion:113 Resp: 129049
Ion Ratio Lower Upper
113 100
111 102.9 83.0 124.4
192 21.8 16.0 24.0



#36
1,1-Dichloropropene
Concen: 4.554 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.134 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion: 75 Resp: 17546
Ion Ratio Lower Upper
75 100
110 9.4 18.1 54.1#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 1.066 ug/l

RT: 6.972 min Scan# 84

Delta R.T. -0.104 min

Lab File: VY012219.D

Acq: 17 Jan 2023 13:03

Instrument :

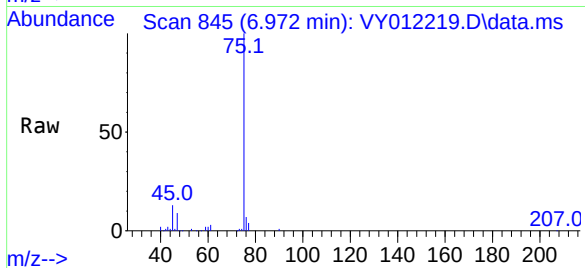
MSVOA_Y

ClientSampleId :

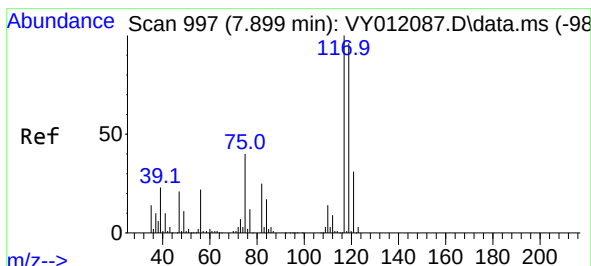
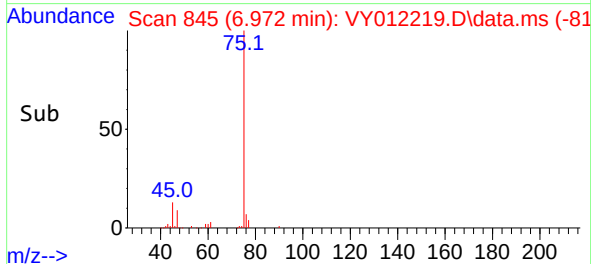
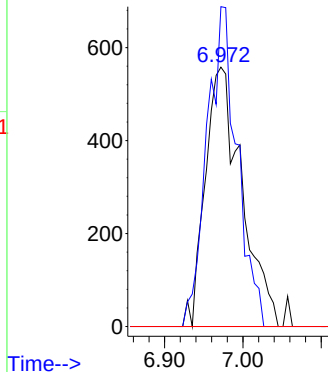
MH-6

Tgt Ion: 43 Resp: 1810

Ion	Ratio	Lower	Upper
43	100		
61	101.7	11.3	16.9#
70	0.0	8.2	12.4#



Abundance



#38

Carbon Tetrachloride

Concen: 5.034 ug/l

RT: 7.795 min Scan# 980

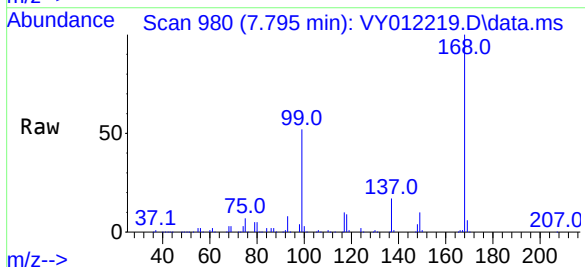
Delta R.T. -0.104 min

Lab File: VY012219.D

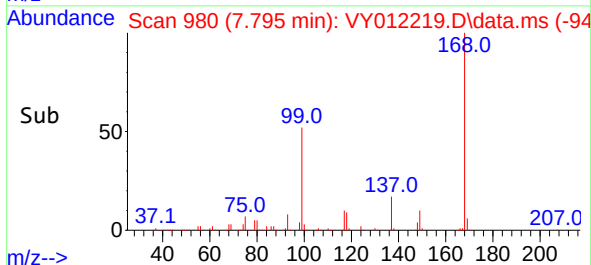
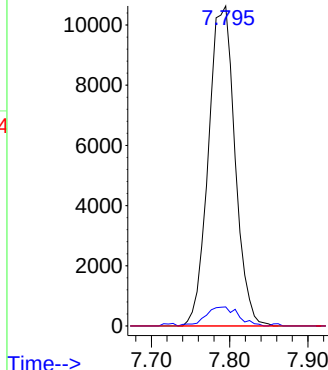
Acq: 17 Jan 2023 13:03

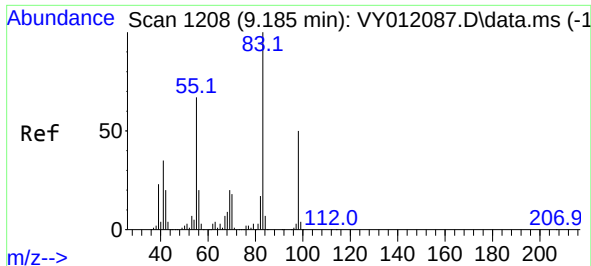
Tgt Ion: 117 Resp: 25046

Ion	Ratio	Lower	Upper
117	100		
119	6.0	73.8	110.8#
121	0.0	25.2	37.8#



Abundance

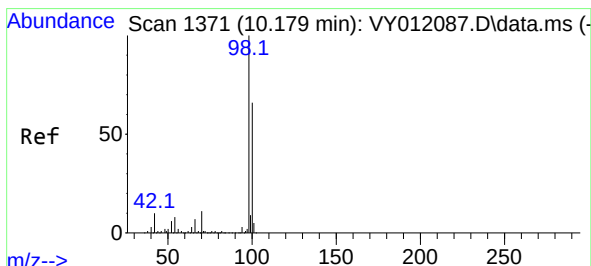
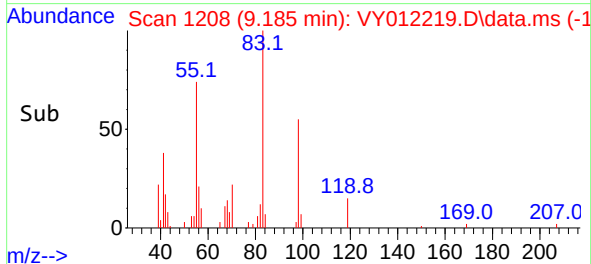
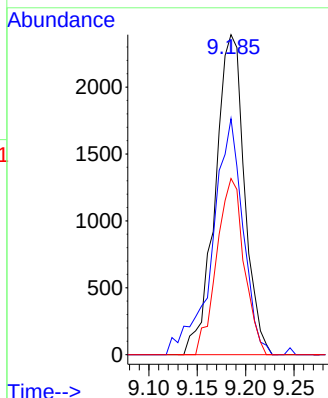
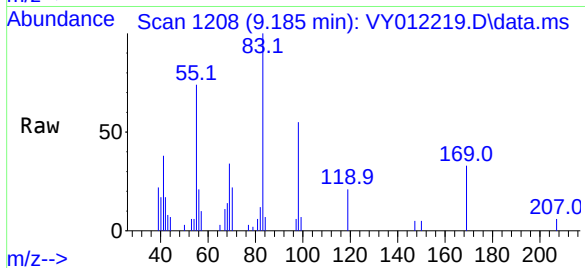




#39
Methylcyclohexane
Concen: 1.068 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. -0.000 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

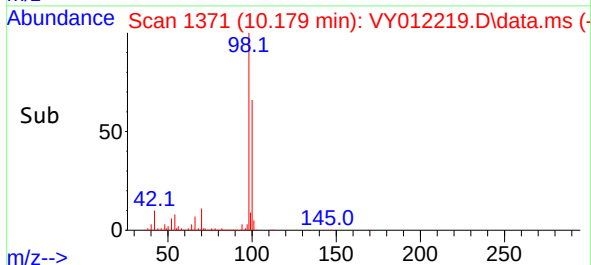
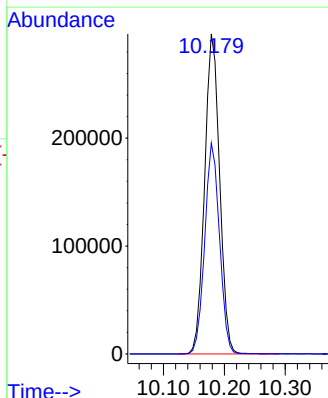
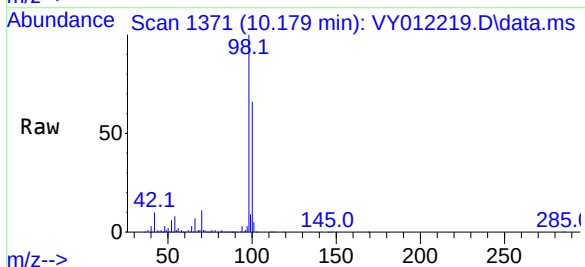
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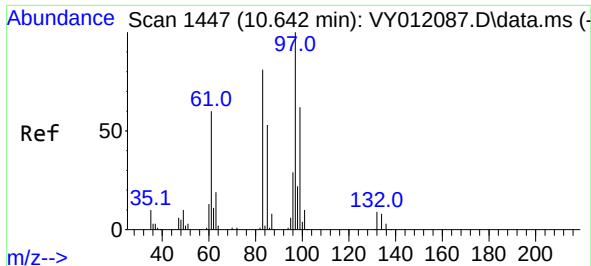
Tgt Ion: 83	Resp: 5026
Ion Ratio	Lower Upper
83	100
55	73.7 58.2 87.2
98	55.1 38.6 58.0



#50
Toluene-d8
Concen: 66.068 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion: 98	Resp: 507973
Ion Ratio	Lower Upper
98	100
100	65.0 51.9 77.9

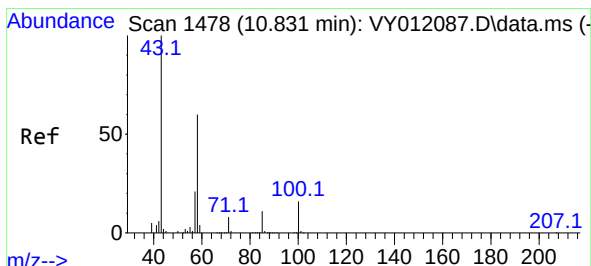
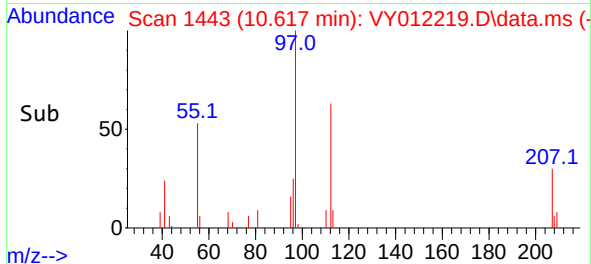
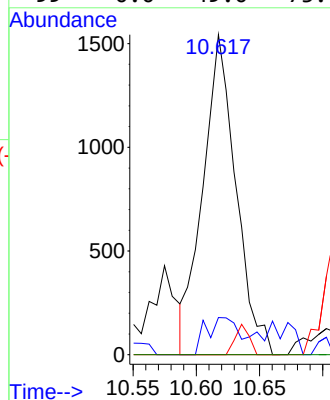
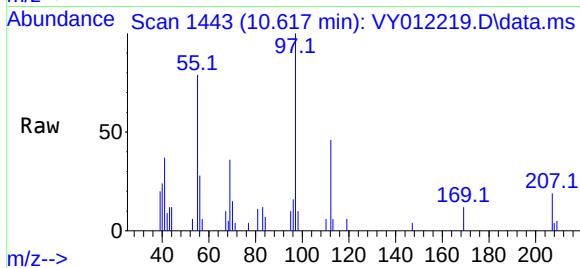




#55
1,1,2-Trichloroethane
Concen: 1.272 ug/l
RT: 10.617 min Scan# 1443
Delta R.T. -0.025 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

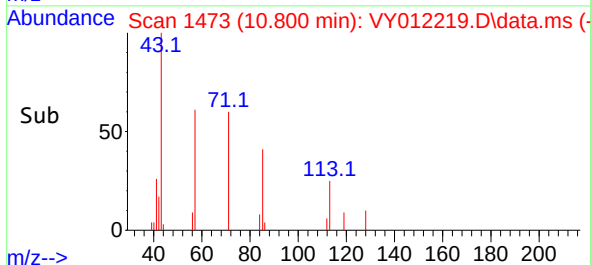
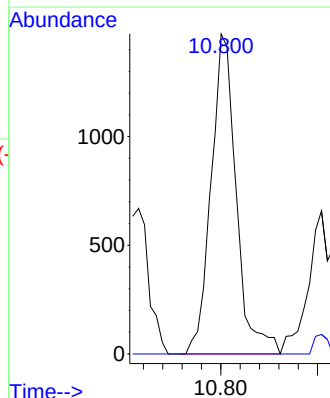
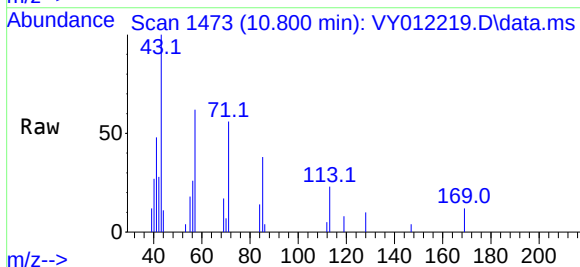
Instrument :
MSVOA_Y
ClientSampleId :
MH-6

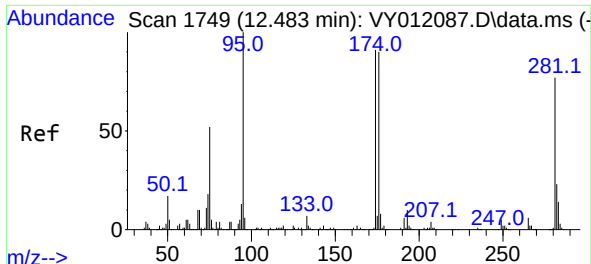
Tgt Ion:	97	Resp:	2806
Ion	Ratio	Lower	Upper
97	100		
83	11.6	67.7	101.5#
85	0.0	43.8	65.8#
99	0.0	49.0	73.4#



#59
2-Hexanone
Concen: 2.071 ug/l
RT: 10.800 min Scan# 1473
Delta R.T. -0.031 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion:	43	Resp:	2657
Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	85.2#

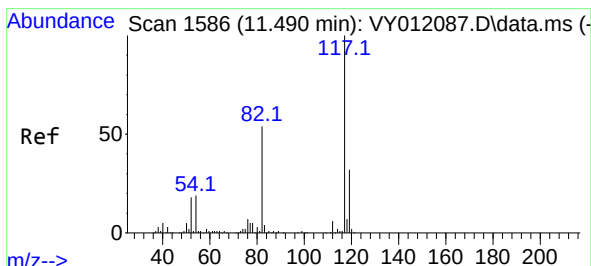
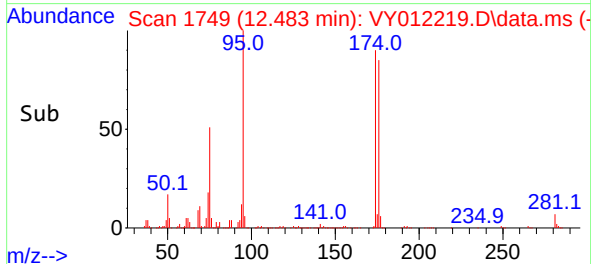
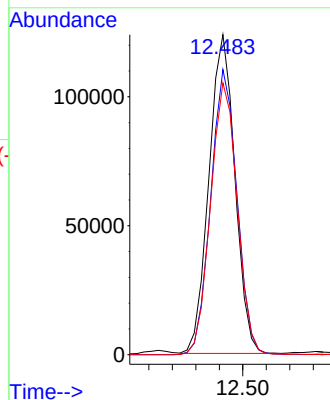
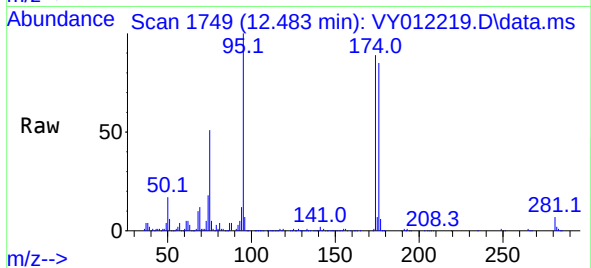




#62
4-Bromofluorobenzene
Concen: 59.211 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

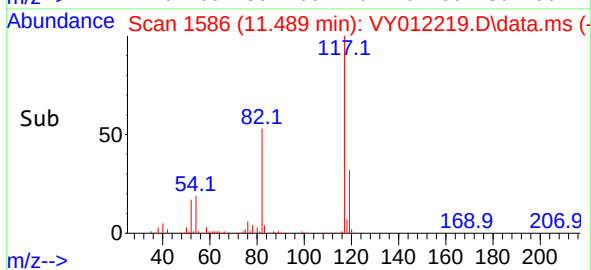
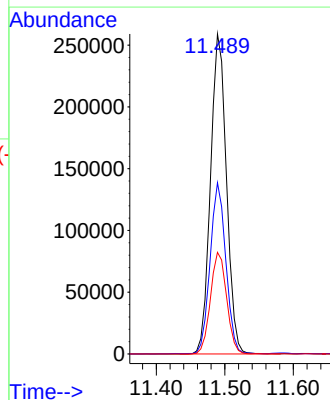
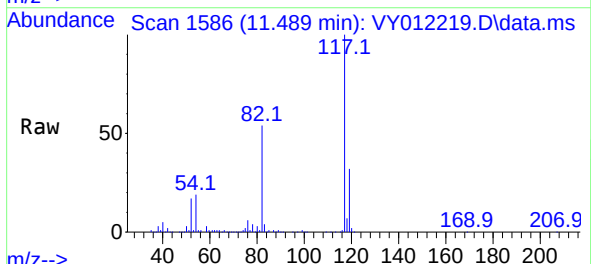
Instrument :
MSVOA_Y
ClientSampleId :
MH-6

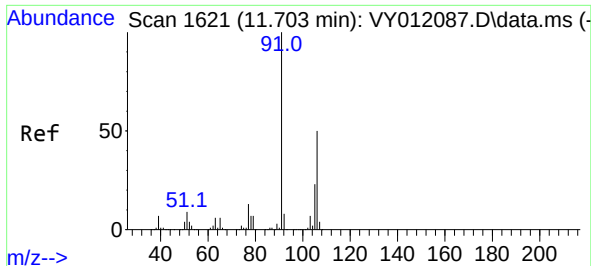
Tgt Ion: 95 Resp: 189209
Ion Ratio Lower Upper
95 100
174 90.4 0.0 172.0
176 87.6 0.0 167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.001 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion: 117 Resp: 419695
Ion Ratio Lower Upper
117 100
82 53.4 44.8 67.2
119 31.7 25.4 38.2

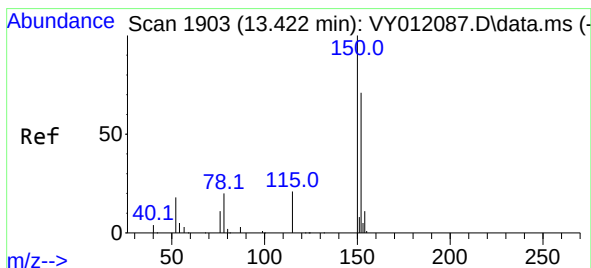
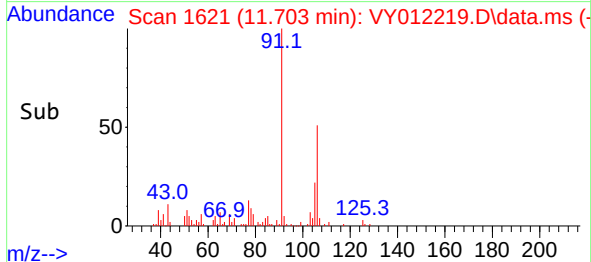
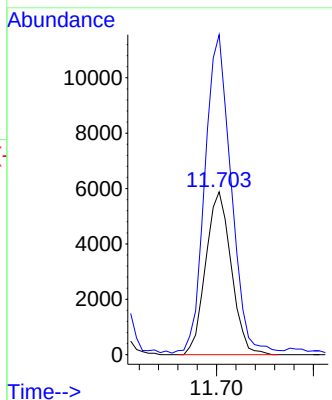
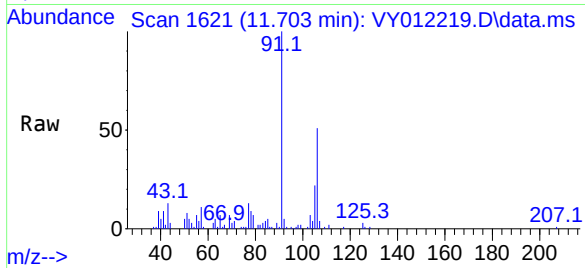




#68
m/p-Xylenes
Concen: 1.777 ug/l
RT: 11.703 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

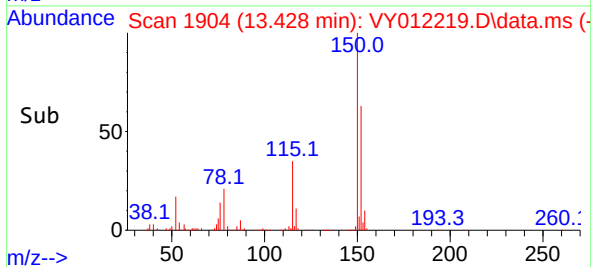
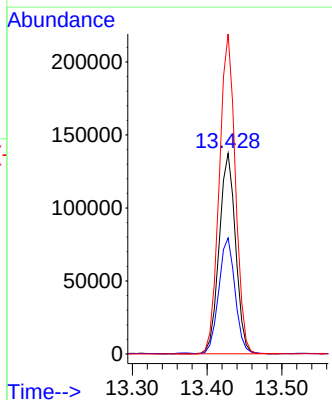
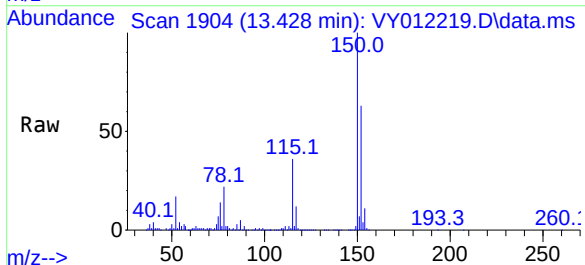
Instrument :
MSVOA_Y
ClientSampleId :
MH-6

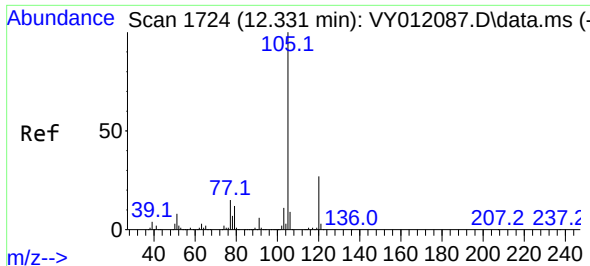
Tgt Ion:106 Resp: 10782
Ion Ratio Lower Upper
106 100
91 200.4 162.5 243.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion:152 Resp: 209542
Ion Ratio Lower Upper
152 100
115 57.5 29.1 87.3
150 157.6 0.0 342.6

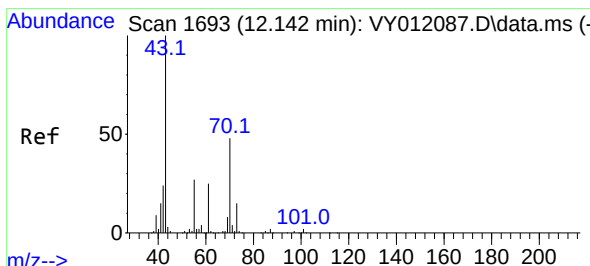
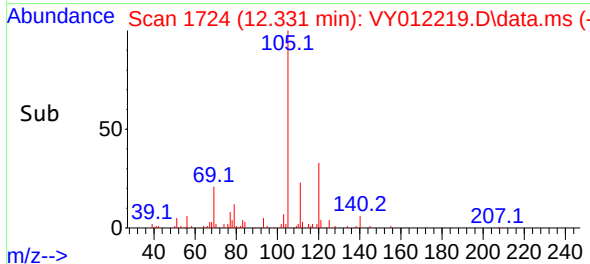
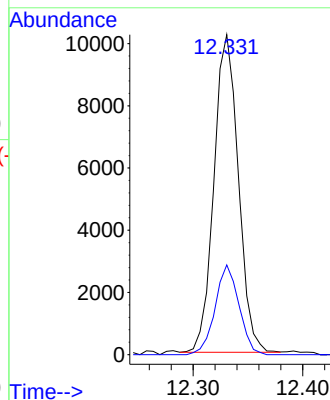
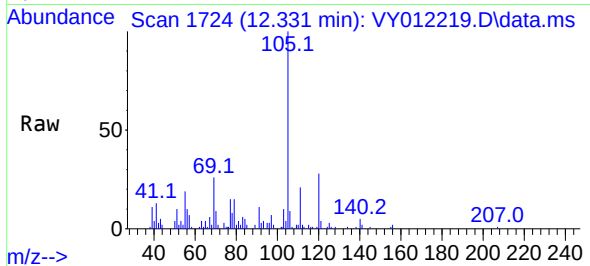




#73
Isopropylbenzene
Concen: 1.045 ug/l
RT: 12.331 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

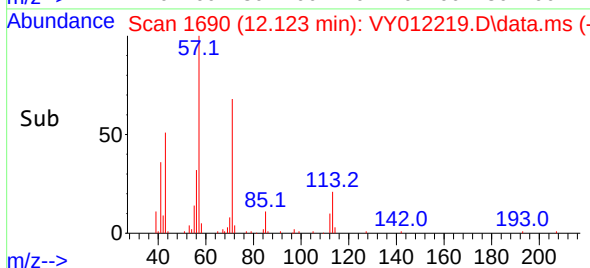
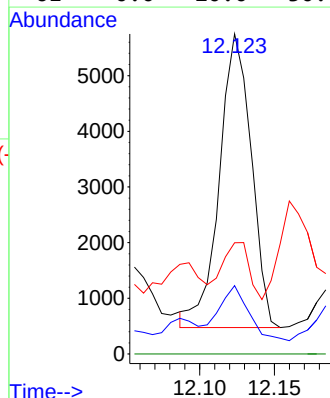
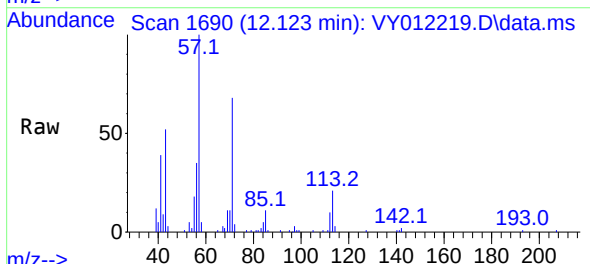
Instrument :
MSVOA_Y
ClientSampleId :
MH-6

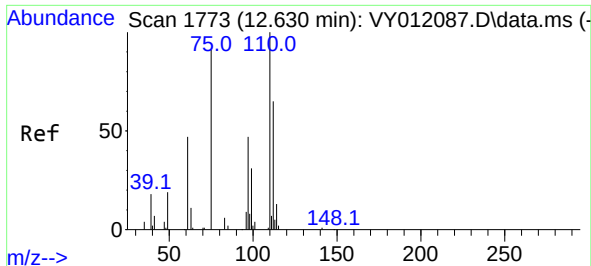
Tgt Ion:105 Resp: 15797
Ion Ratio Lower Upper
105 100
120 27.6 13.2 39.6



#74
N-ethyl acetate
Concen: 2.645 ug/l
RT: 12.123 min Scan# 1690
Delta R.T. -0.019 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion: 43 Resp: 7833
Ion Ratio Lower Upper
43 100
70 17.9 35.8 53.8#
55 16.1 21.0 31.4#
61 0.0 20.0 30.0#

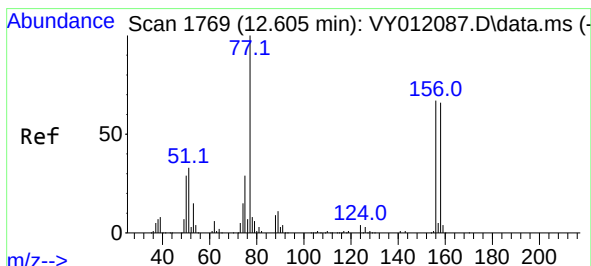
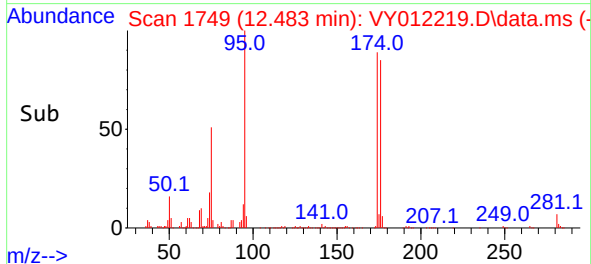
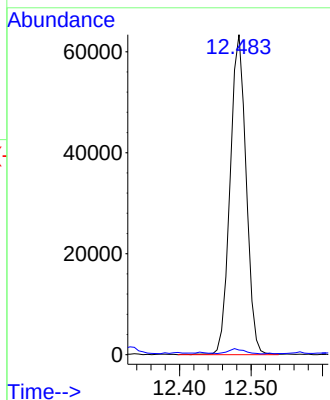
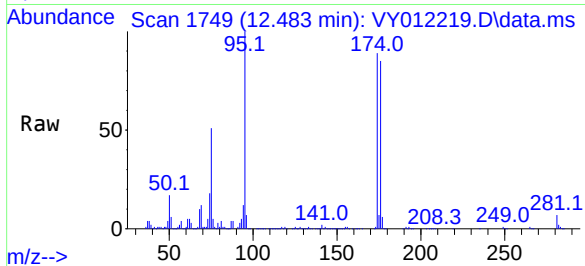




#76
1,2,3-Trichloropropane
Concen: 51.211 ug/l
RT: 12.483 min Scan# 11
Delta R.T. -0.147 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

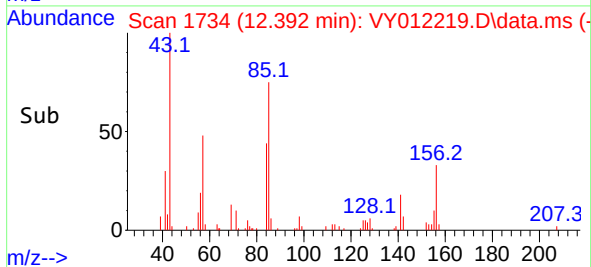
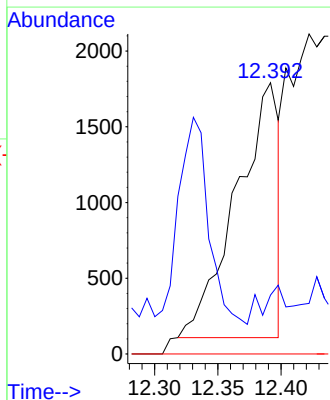
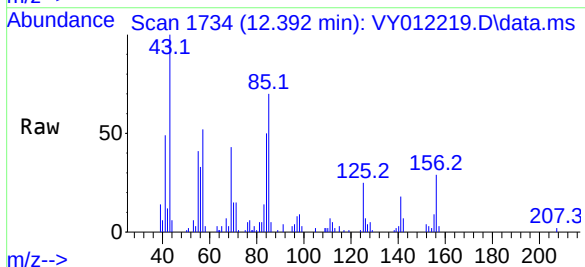
Instrument :
MSVOA_Y
ClientSampleId :
MH-6

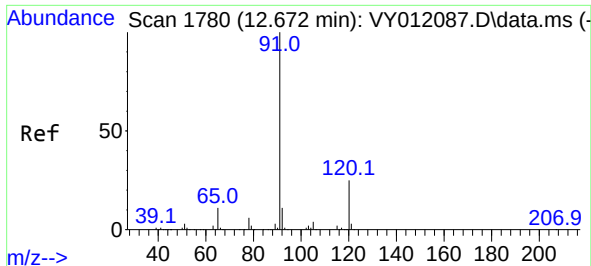
Tgt Ion: 75 Resp: 98674
Ion Ratio Lower Upper
75 100
77 1.7 0.0 0.0#



#77
Bromobenzene
Concen: 1.082 ug/l
RT: 12.392 min Scan# 1734
Delta R.T. -0.213 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion:156 Resp: 3935
Ion Ratio Lower Upper
156 100
77 8.8 90.0 270.0#
158 0.0 48.4 145.2#

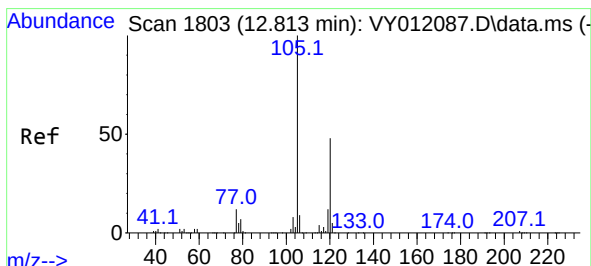
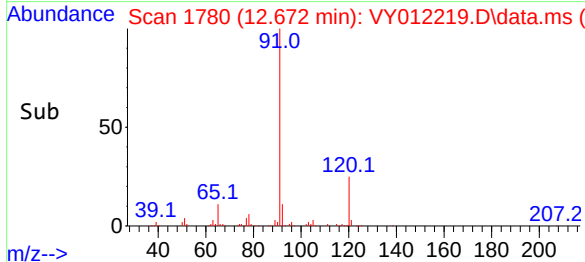
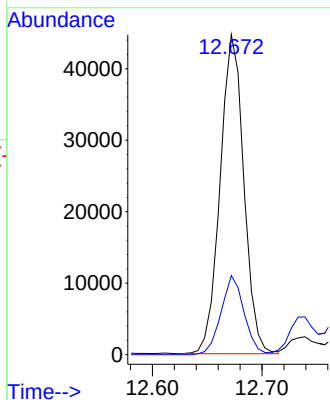
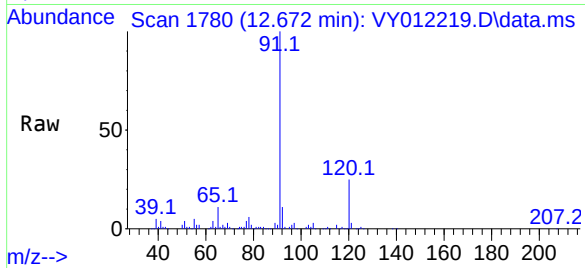




#78
n-propylbenzene
Concen: 3.795 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

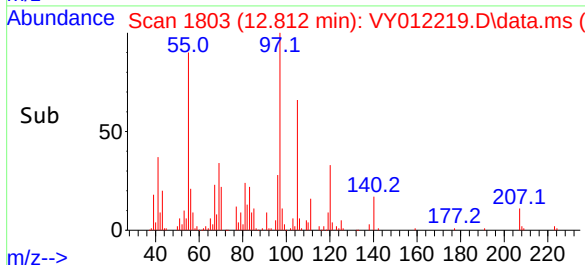
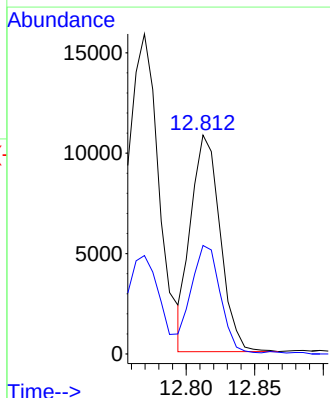
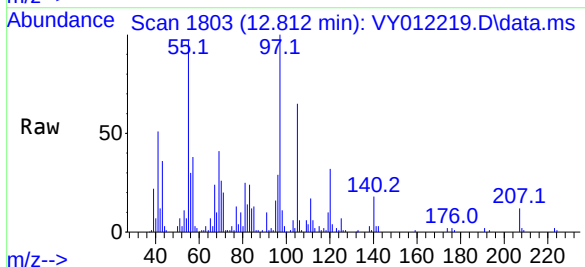
Instrument :
MSVOA_Y
ClientSampleId :
MH-6

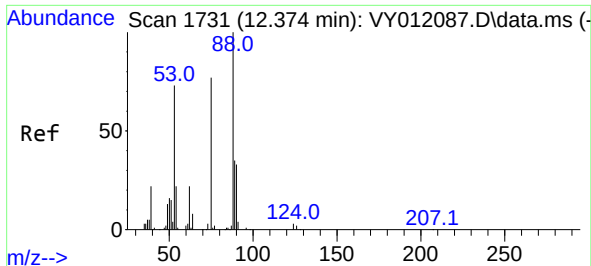
Tgt Ion: 91 Resp: 67097
Ion Ratio Lower Upper
91 100
120 24.2 11.8 35.4



#80
1,3,5-Trimethylbenzene
Concen: 1.223 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.001 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion: 105 Resp: 16068
Ion Ratio Lower Upper
105 100
120 50.9 24.2 72.6

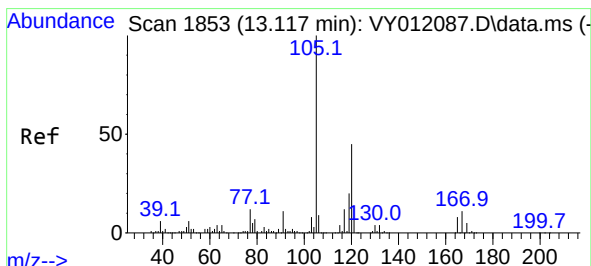
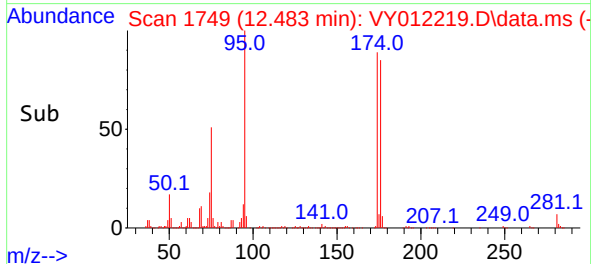
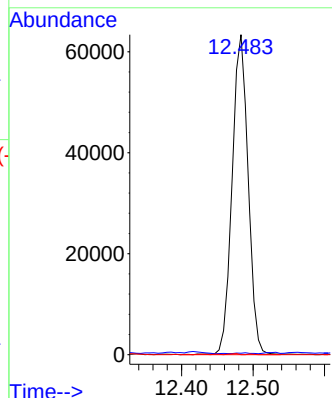
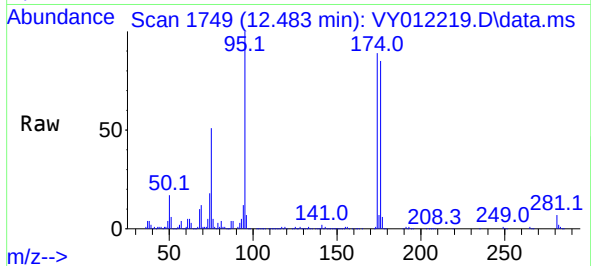




#81
trans-1,4-Dichloro-2-butene
Concen: 105.517 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.109 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

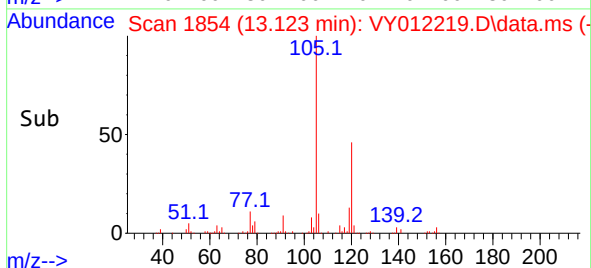
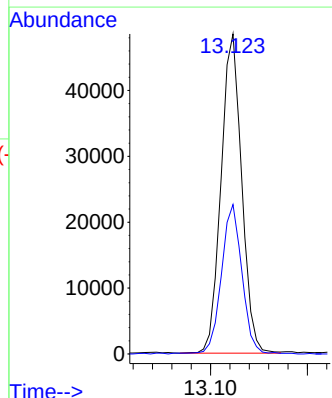
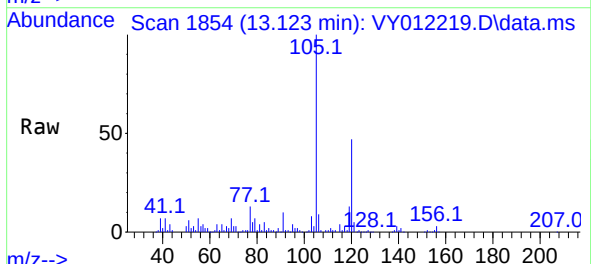
Instrument :
MSVOA_Y
ClientSampleId :
MH-6

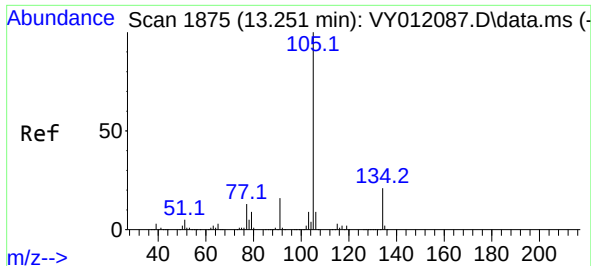
Tgt Ion: 75 Resp: 98674
Ion Ratio Lower Upper
75 100
53 0.0 72.5 108.7#
89 0.2 37.0 55.4#



#84
1,2,4-Trimethylbenzene
Concen: 5.522 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion:105 Resp: 71536
Ion Ratio Lower Upper
105 100
120 46.9 22.9 68.7

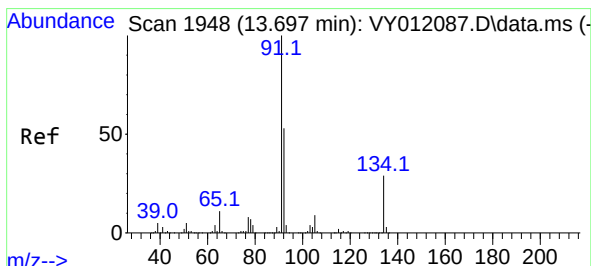
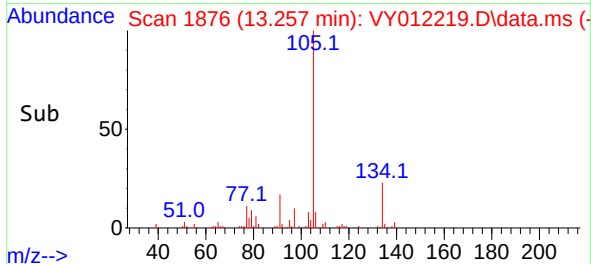
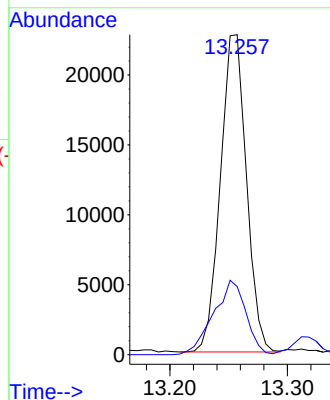
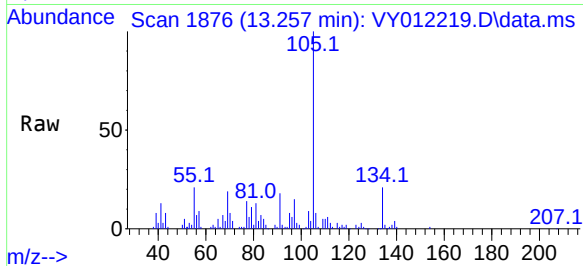




#85
 sec-Butylbenzene
 Concen: 2.147 ug/l
 RT: 13.257 min Scan# 1875
 Delta R.T. 0.006 min
 Lab File: VY012219.D
 Acq: 17 Jan 2023 13:03

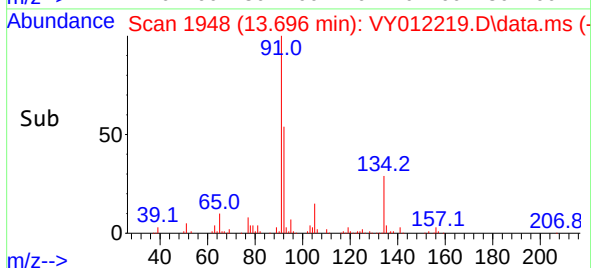
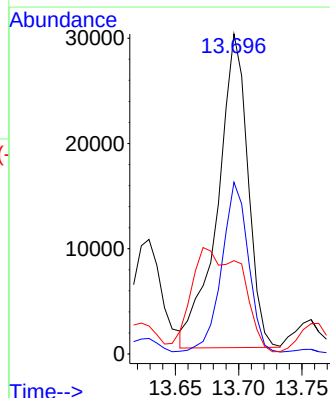
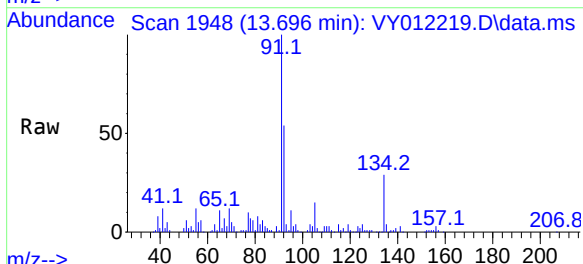
Instrument :
 MSVOA_Y
 ClientSampleId :
 MH-6

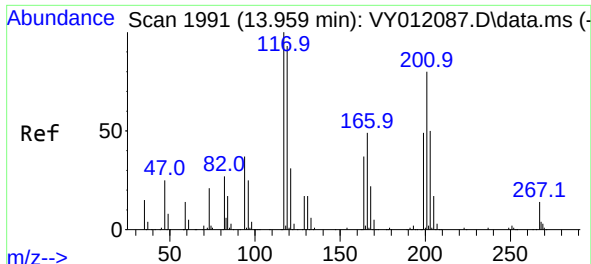
Tgt Ion:105 Resp: 35001
 Ion Ratio Lower Upper
 105 100
 134 29.1 10.1 30.3



#89
 n-Butylbenzene
 Concen: 4.010 ug/l
 RT: 13.696 min Scan# 1948
 Delta R.T. -0.001 min
 Lab File: VY012219.D
 Acq: 17 Jan 2023 13:03

Tgt Ion: 91 Resp: 49491
 Ion Ratio Lower Upper
 91 100
 92 47.9 26.8 80.4
 134 0.0 13.3 39.8#

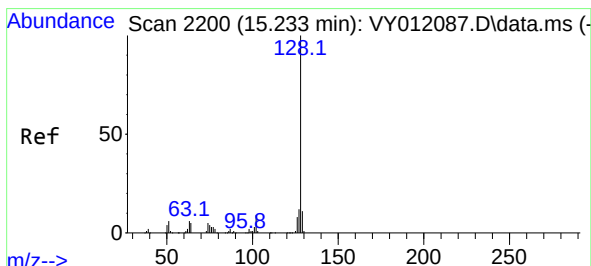
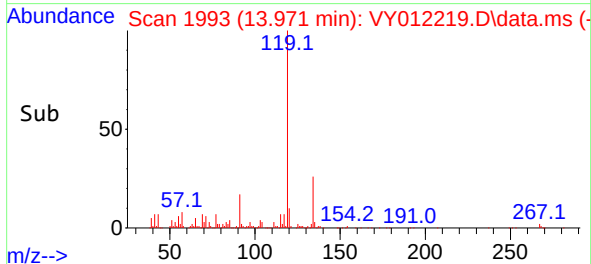
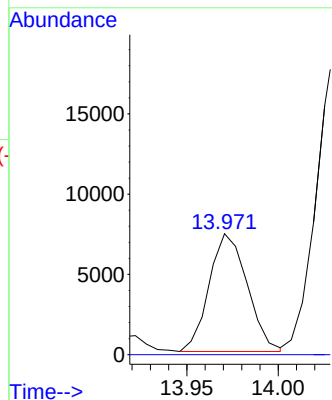
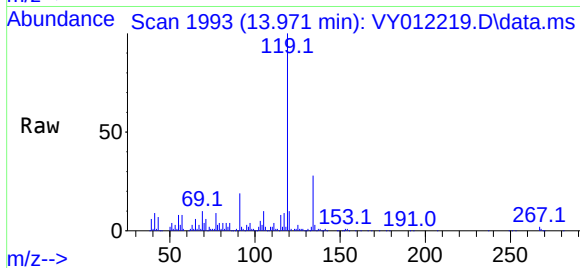




#90
Hexachloroethane
Concen: 4.152 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Instrument :
MSVOA_Y
ClientSampleId :
MH-6

Tgt Ion:117 Resp: 10675
Ion Ratio Lower Upper
117 100
201 0.0 40.3 120.8#



#95
Naphthalene
Concen: 17.409 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. 0.006 min
Lab File: VY012219.D
Acq: 17 Jan 2023 13:03

Tgt Ion:128 Resp: 142065
Ion Ratio Lower Upper
128 100
127 13.7 10.2 15.2
129 12.2 8.8 13.2

