

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031924\
 Data File : VY017716.D
 Acq On : 19 Mar 2024 18:54
 Operator : SY/MD
 Sample : P1810-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 342

Quant Time: Mar 20 03:05:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022324S.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 24 04:41:20 2024
 Response via : Initial Calibration

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

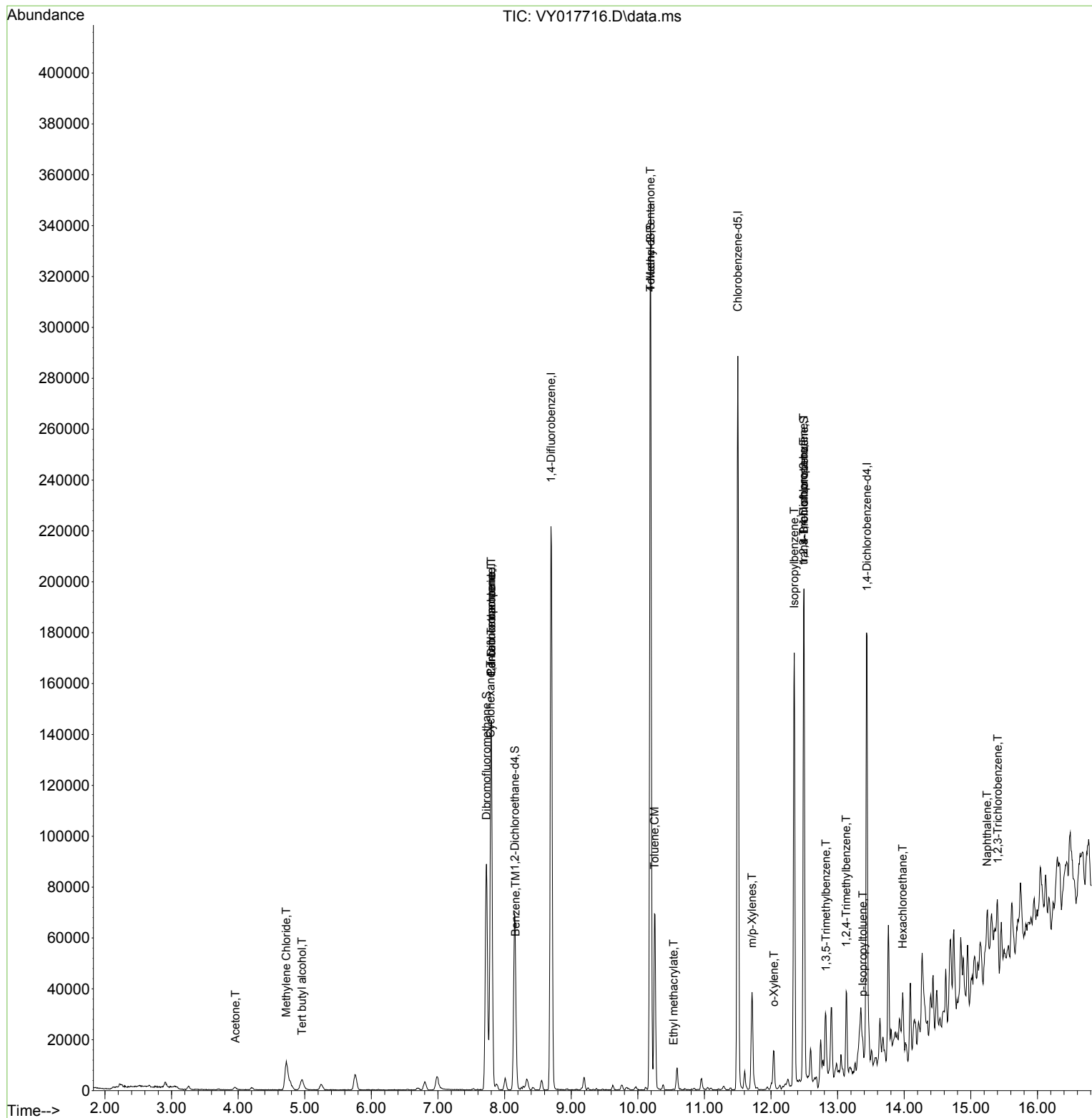
Internal Standards						
1) Pentafluorobenzene	7.801	168	114899	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	207487	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.502	117	166765	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.440	152	46634	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	49250	45.228	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	90.460%
35) Dibromofluoromethane	7.728	113	64158	44.374	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	88.740%
50) Toluene-d8	10.191	98	231049	45.705	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	91.420%
62) 4-Bromofluorobenzene	12.495	95	57441	36.156	ug/l	0.01
Spiked Amount	50.000	Range	30 - 143	Recovery	=	72.320%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.960	59	7917	85.591	ug/l #	84
16) Acetone	3.960	43	1832	8.674	ug/l	95
20) Methylene Chloride	4.722	84	8588	1.620	ug/l #	95
31) Cyclohexane	7.789	56	5828	3.289	ug/l #	61
36) 1,1-Dichloropropene	7.801	75	7842	4.020	ug/l #	48
38) Carbon Tetrachloride	7.801	117	10763	5.505	ug/l #	17
40) Benzene	8.167	78	8712	1.504	ug/l	99
51) 4-Methyl-2-Pentanone	10.191	43	827	1.096	ug/l #	1
52) Toluene	10.252	92	30753	8.421	ug/l	99
56) Ethyl methacrylate	10.538	69	21	2.551	ug/l #	33
68) m/p-Xylenes	11.715	106	11780	4.829	ug/l	98
69) o-Xylene	12.044	106	4055	1.792	ug/l	96
73) Isopropylbenzene	12.349	105	9437	2.724	ug/l	81
76) 1,2,3-Trichloropropane	12.489	75	28337	63.953	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.824	105	4651	1.676	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.489	75	28337	146.949	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.129	105	18338	6.692	ug/l	98
86) p-Isopropyltoluene	13.379	119	3568	1.170	ug/l #	70
90) Hexachloroethane	13.977	117	805	1.316	ug/l #	12
95) Naphthalene	15.245	128	22945	18.420	ug/l	96
96) 1,2,3-Trichlorobenzene	15.403	180	1643	2.545	ug/l #	31

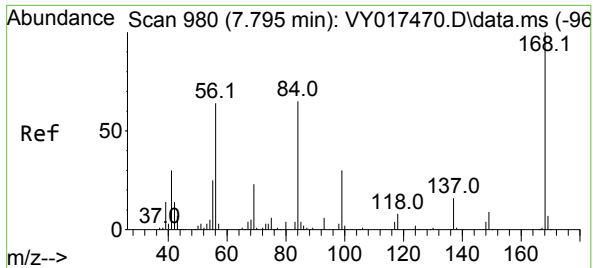
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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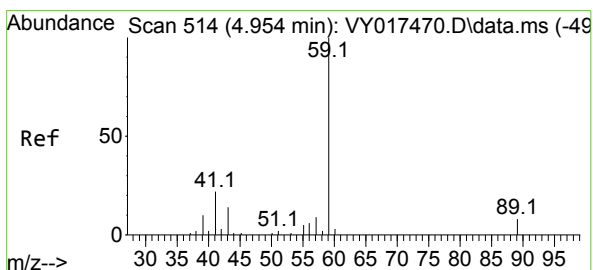
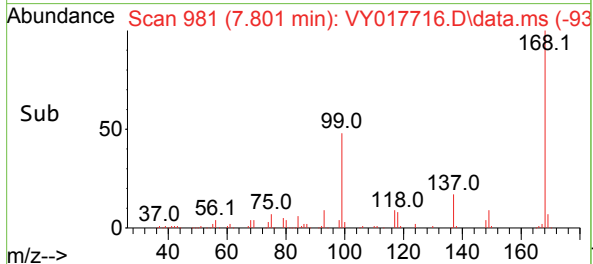
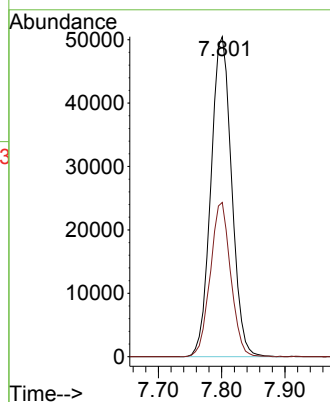
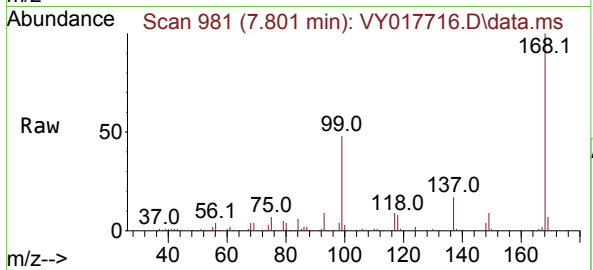




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

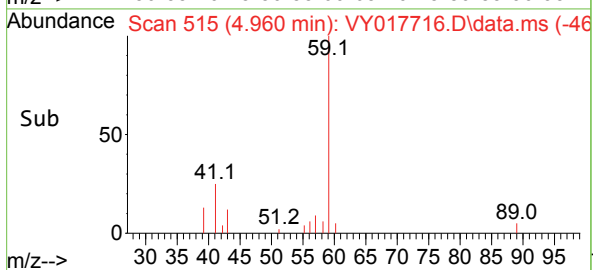
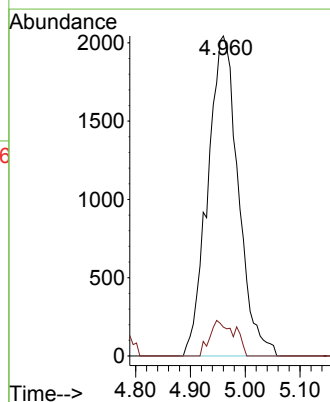
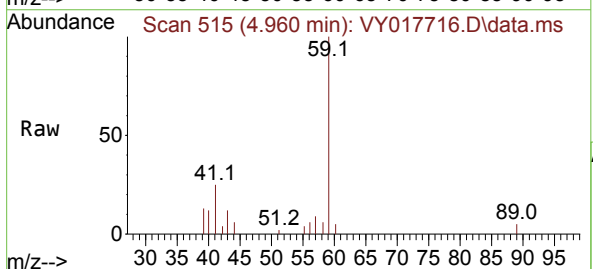
Instrument :
MSVOA_Y
ClientSampleId :
342

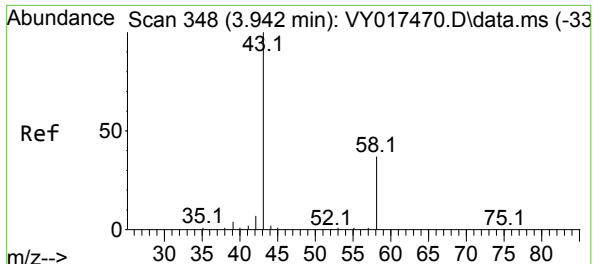
Tgt Ion:168 Resp: 114899
Ion Ratio Lower Upper
168 100
99 48.2 39.1 58.7



#11
Tert butyl alcohol
Concen: 85.591 ug/l
RT: 4.960 min Scan# 515
Delta R.T. 0.006 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

Tgt Ion: 59 Resp: 7917
Ion Ratio Lower Upper
59 100
57 9.0 3.0 4.6#

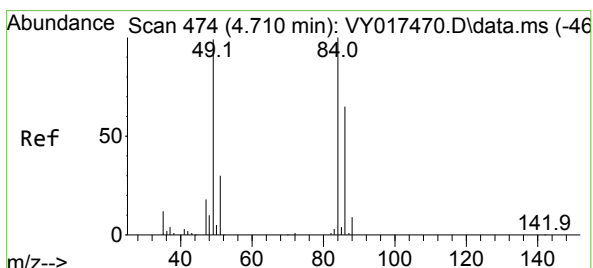
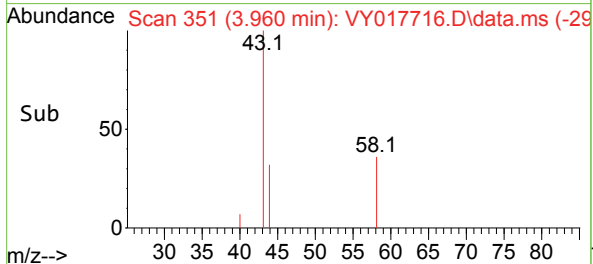
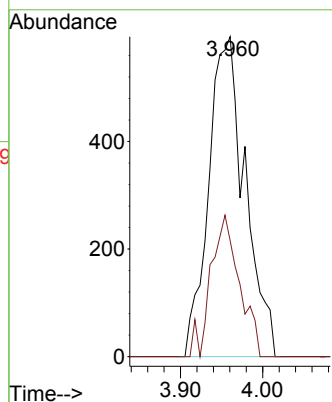
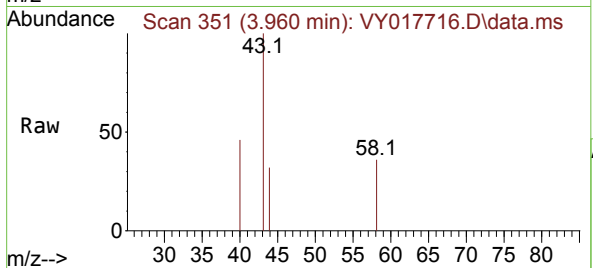




#16
Acetone
Concen: 8.674 ug/l
RT: 3.960 min Scan# 312
Delta R.T. 0.018 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

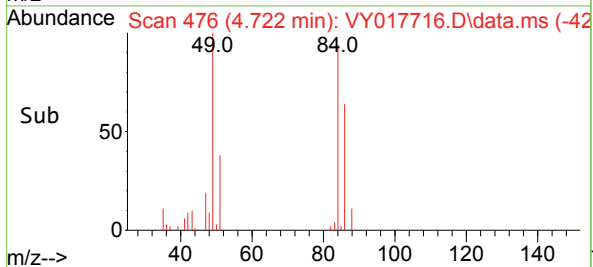
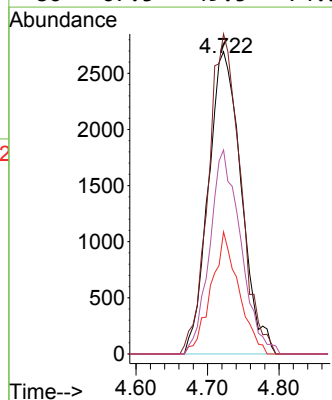
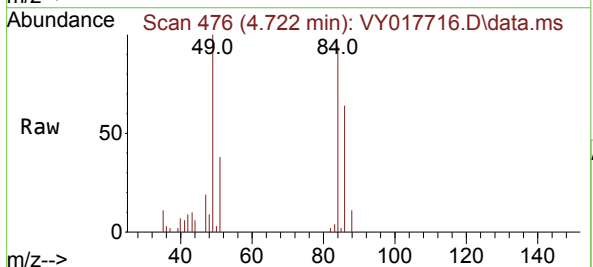
Instrument :
MSVOA_Y
ClientSampleId :
342

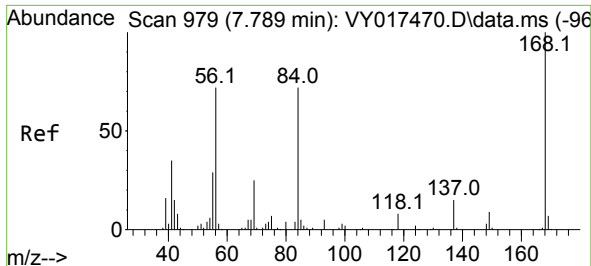
Tgt Ion: 43 Resp: 1832
Ion Ratio Lower Upper
43 100
58 36.3 31.7 47.5



#20
Methylene Chloride
Concen: 1.620 ug/l
RT: 4.722 min Scan# 476
Delta R.T. 0.012 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

Tgt Ion: 84 Resp: 8588
Ion Ratio Lower Upper
84 100
49 105.9 84.4 126.6
51 40.4 26.0 39.0#
86 67.5 49.5 74.3

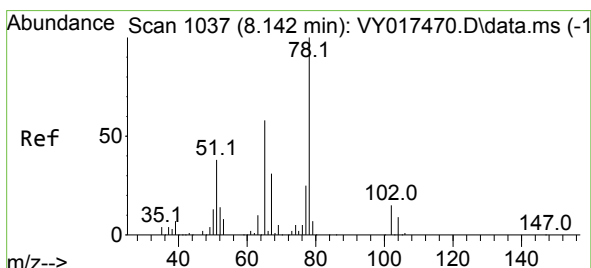
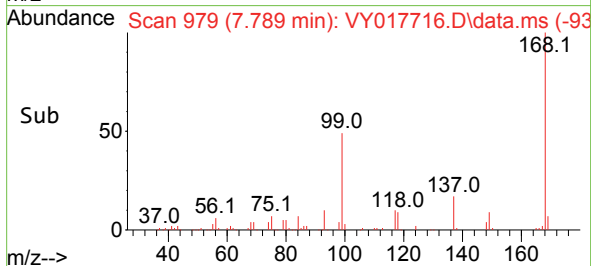
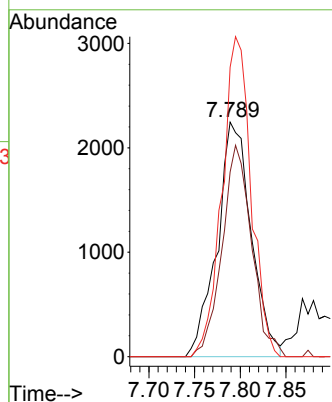
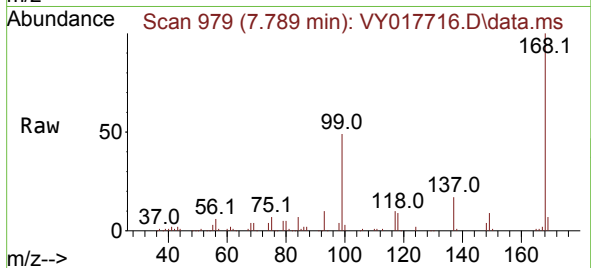




#31
Cyclohexane
Concen: 3.289 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

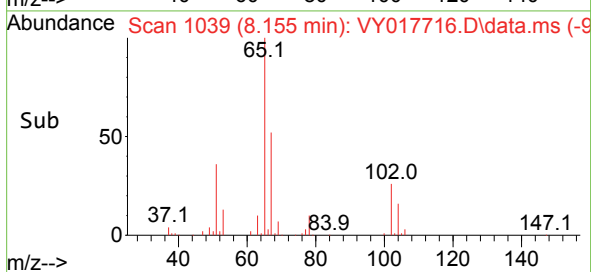
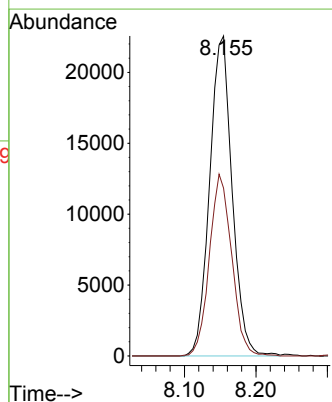
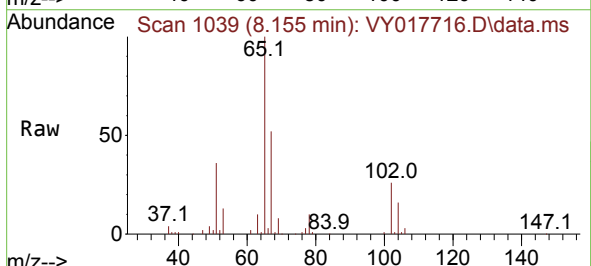
Instrument :
MSVOA_Y
ClientSampleId :
342

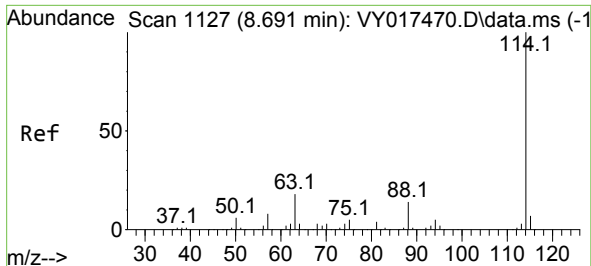
Tgt Ion: 56 Resp: 5828
Ion Ratio Lower Upper
56 100
69 78.7 28.7 43.1#
84 123.4 77.7 116.5#



#33
1,2-Dichloroethane-d4
Concen: 45.228 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. 0.012 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

Tgt Ion: 65 Resp: 49250
Ion Ratio Lower Upper
65 100
67 56.4 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY017716.D

Acq: 19 Mar 2024 18:54

Instrument :

MSVOA_Y

ClientSampleId :

342

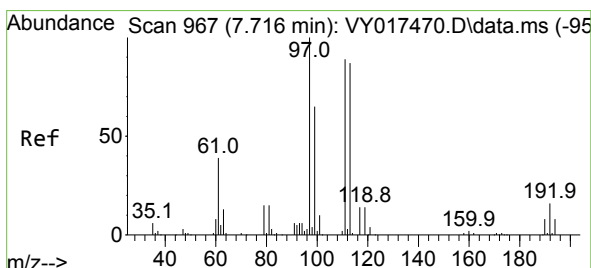
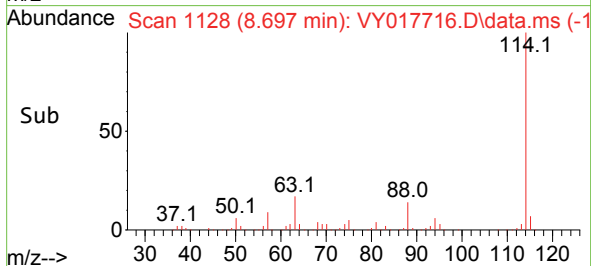
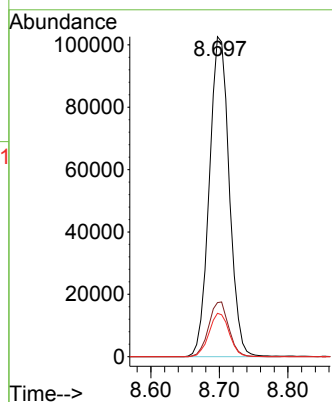
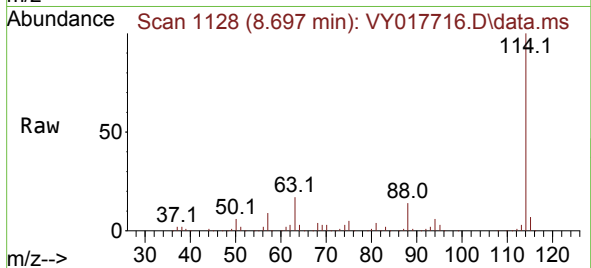
Tgt Ion:114 Resp: 207487

Ion Ratio Lower Upper

114 100

63 16.9 0.0 35.0

88 13.5 0.0 27.2



#35

Dibromofluoromethane

Concen: 44.374 ug/l

RT: 7.728 min Scan# 969

Delta R.T. 0.012 min

Lab File: VY017716.D

Acq: 19 Mar 2024 18:54

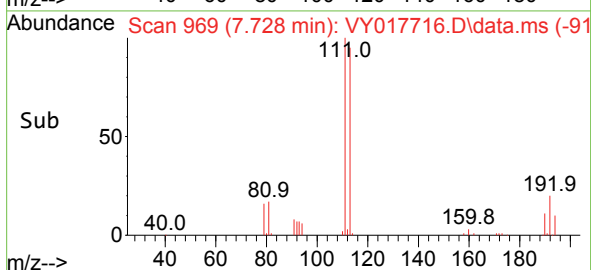
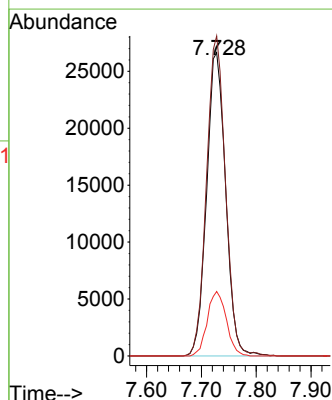
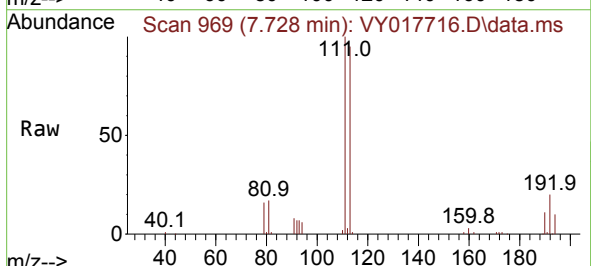
Tgt Ion:113 Resp: 64158

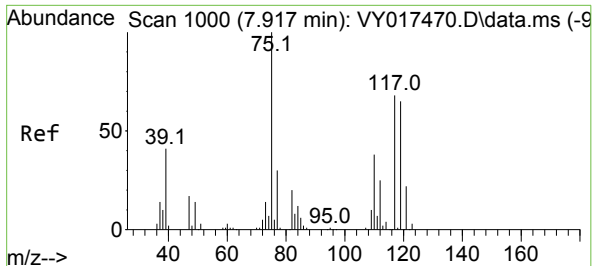
Ion Ratio Lower Upper

113 100

111 104.9 82.2 123.4

192 21.3 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.020 ug/l

RT: 7.801 min Scan# 981

Delta R.T. -0.116 min

Lab File: VY017716.D

Acq: 19 Mar 2024 18:54

Instrument :

MSVOA_Y

ClientSampleId :

342

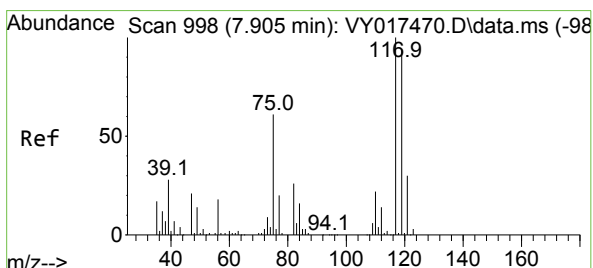
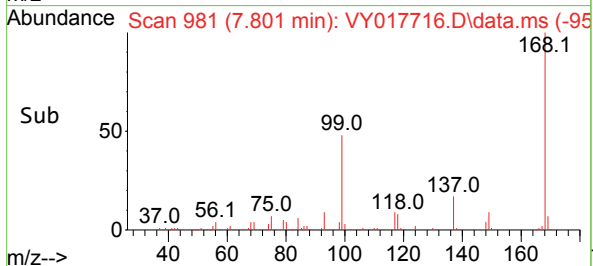
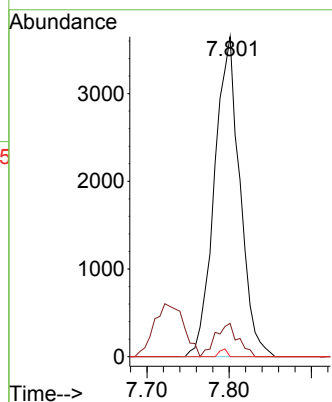
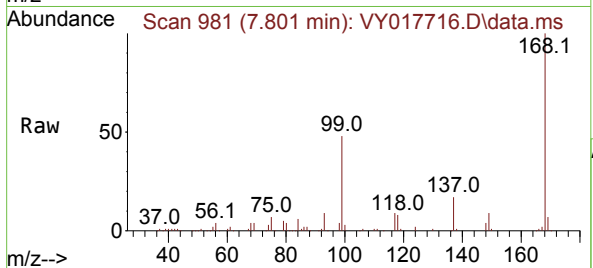
Tgt Ion: 75 Resp: 7842

Ion Ratio Lower Upper

75 100

110 9.3 19.0 57.0#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 5.505 ug/l

RT: 7.801 min Scan# 981

Delta R.T. -0.104 min

Lab File: VY017716.D

Acq: 19 Mar 2024 18:54

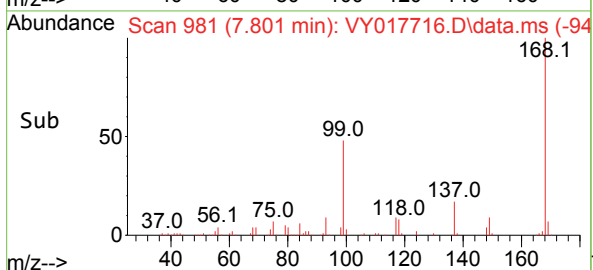
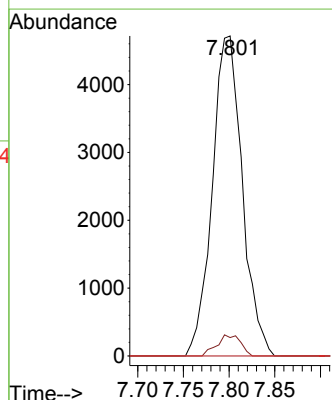
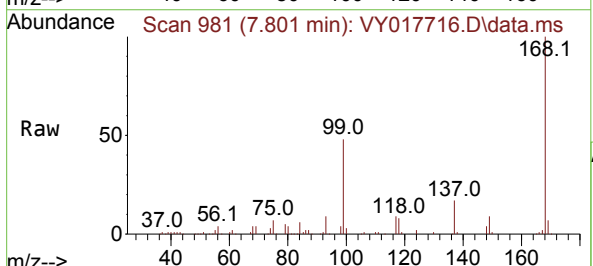
Tgt Ion: 117 Resp: 10763

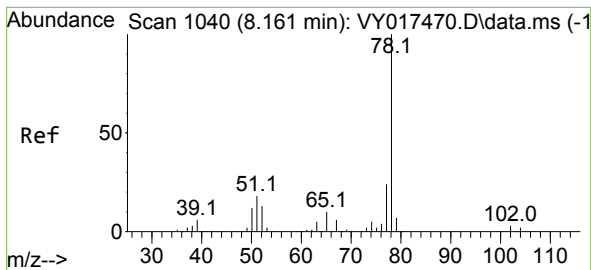
Ion Ratio Lower Upper

117 100

119 5.8 75.8 113.6#

121 0.0 24.0 36.0#





#40

Benzene

Concen: 1.504 ug/l

RT: 8.167 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY017716.D

Acq: 19 Mar 2024 18:54

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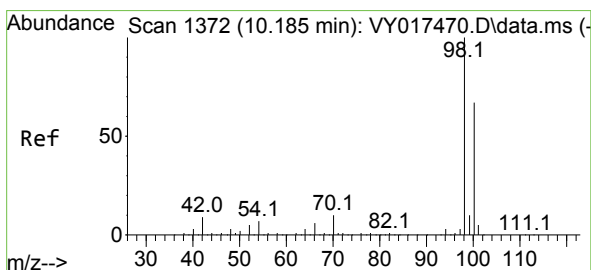
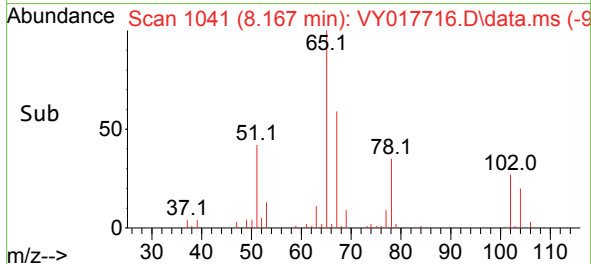
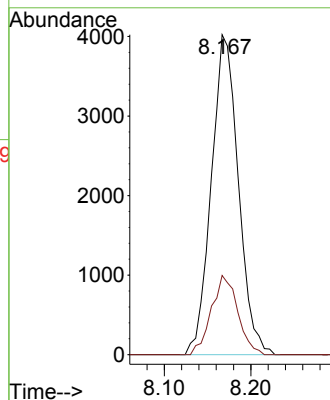
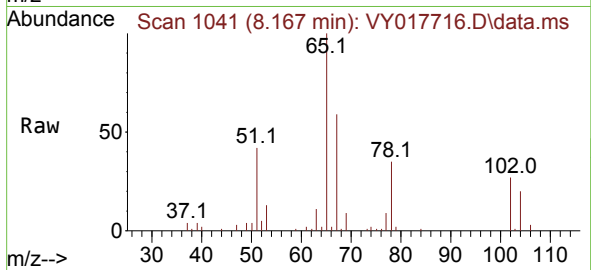
342

Tgt Ion: 78 Resp: 8712

Ion Ratio Lower Upper

78 100

77 24.7 19.5 29.3



#50

Toluene-d8

Concen: 45.705 ug/l

RT: 10.191 min Scan# 1373

Delta R.T. 0.006 min

Lab File: VY017716.D

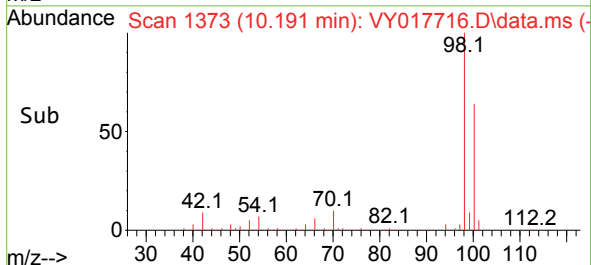
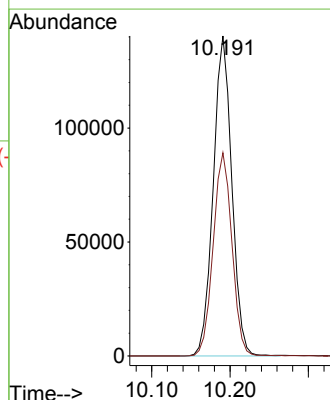
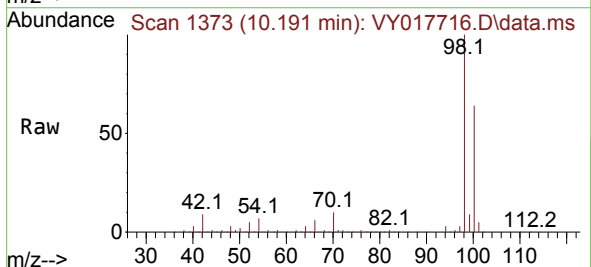
Acq: 19 Mar 2024 18:54

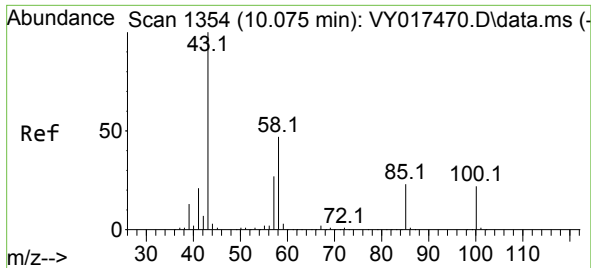
Tgt Ion: 98 Resp: 231049

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0

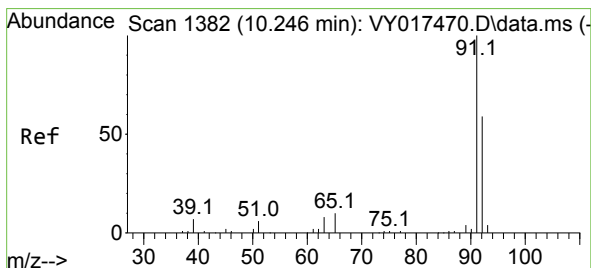
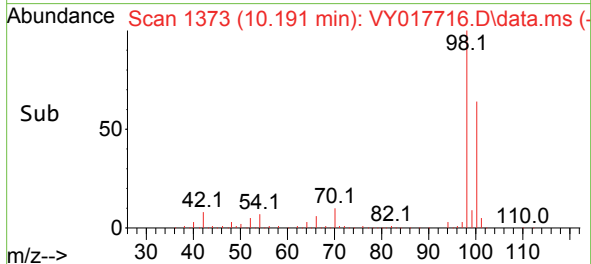
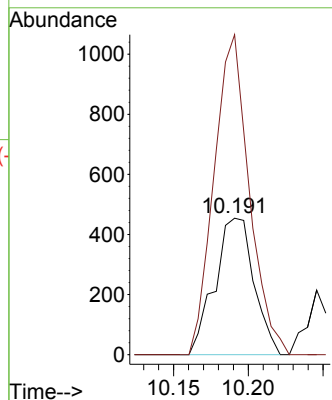
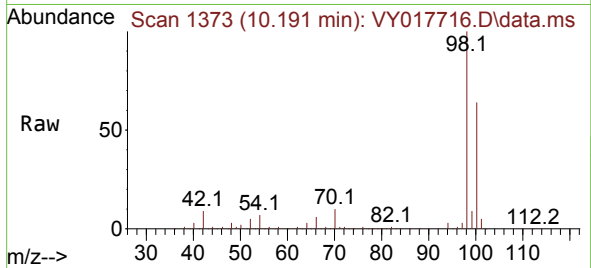




#51
4-Methyl-2-Pentanone
Concen: 1.096 ug/l
RT: 10.191 min Scan# 11
Delta R.T. 0.116 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

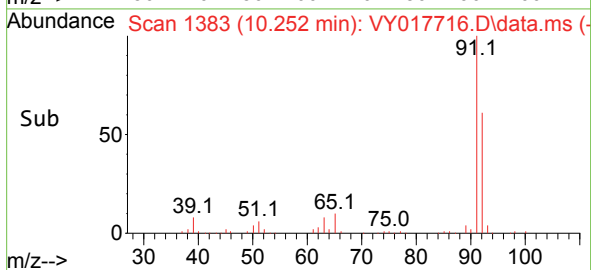
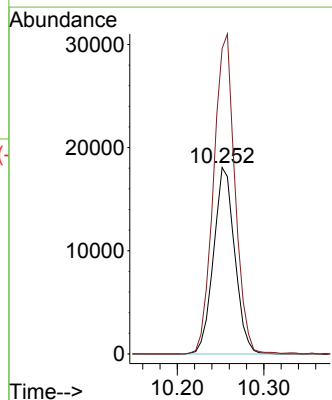
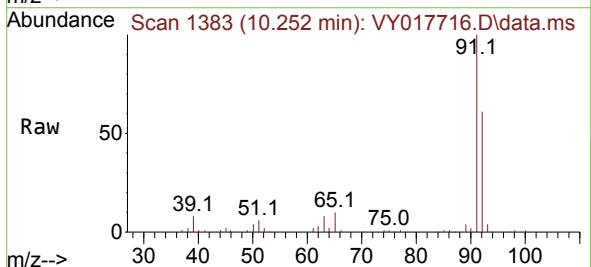
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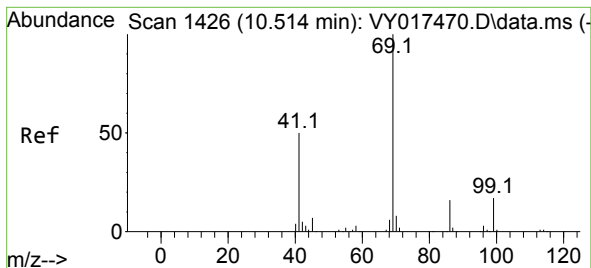
Tgt Ion: 43 Resp: 827
Ion Ratio Lower Upper
43 100
58 210.5 35.7 53.5#



#52
Toluene
Concen: 8.421 ug/l
RT: 10.252 min Scan# 1383
Delta R.T. 0.006 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

Tgt Ion: 92 Resp: 30753
Ion Ratio Lower Upper
92 100
91 173.1 139.0 208.6

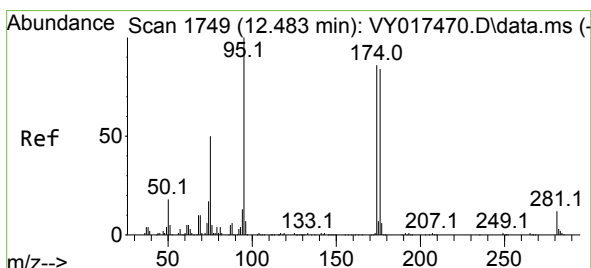
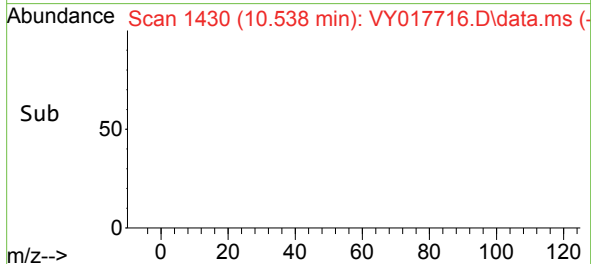
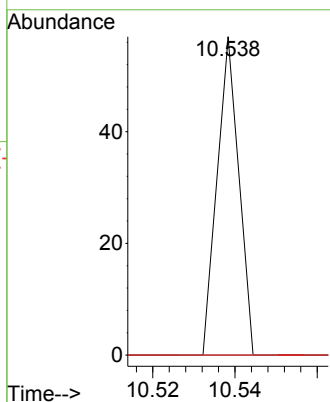
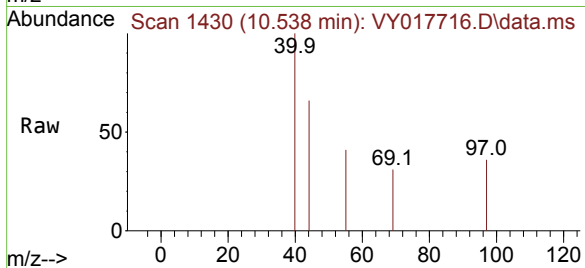




#56
Ethyl methacrylate
Concen: 2.551 ug/l
RT: 10.538 min Scan# 14
Delta R.T. 0.024 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

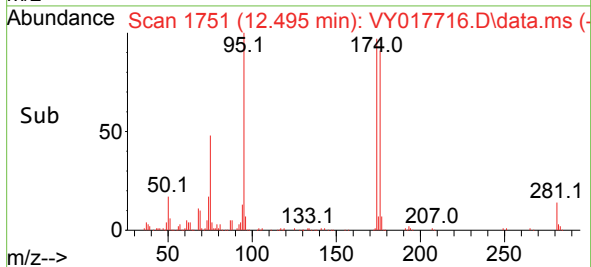
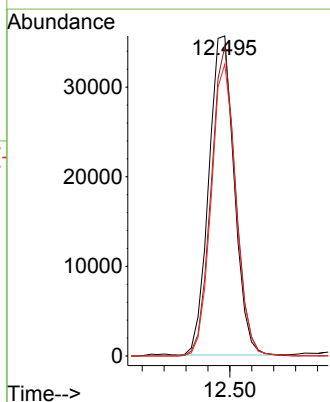
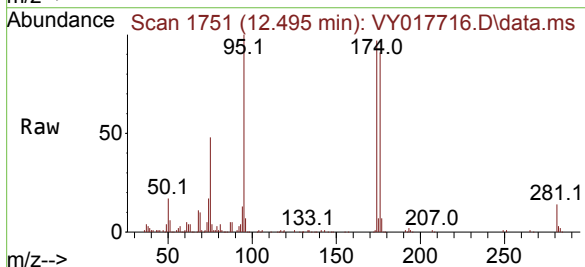
Instrument :
MSVOA_Y
ClientSampleId :
342

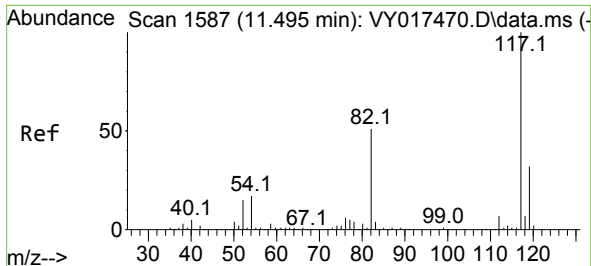
Tgt Ion: 69 Resp: 21
Ion Ratio Lower Upper
69 100
41 0.0 42.3 63.5#
39 0.0 22.9 34.3#



#62
4-Bromofluorobenzene
Concen: 36.156 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. 0.012 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

Tgt Ion: 95 Resp: 57441
Ion Ratio Lower Upper
95 100
174 93.2 0.0 175.6
176 88.9 0.0 171.4

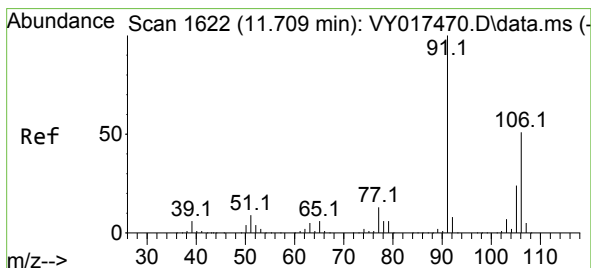
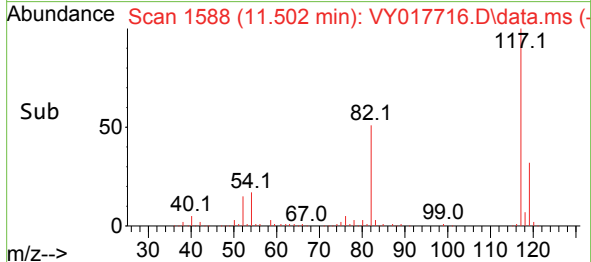
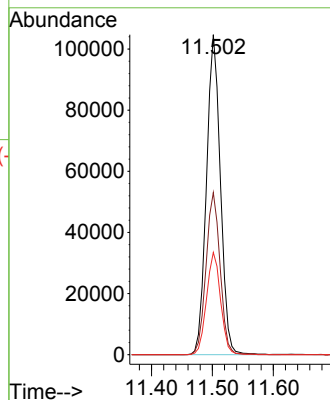
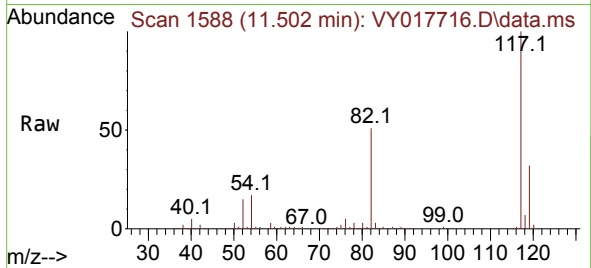




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.502 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

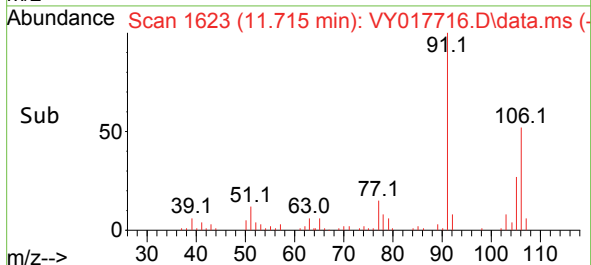
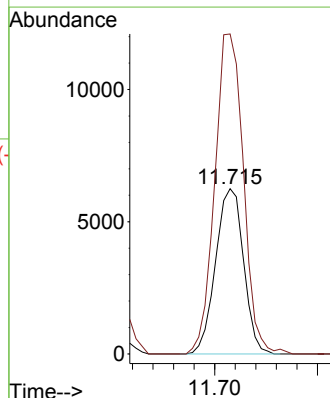
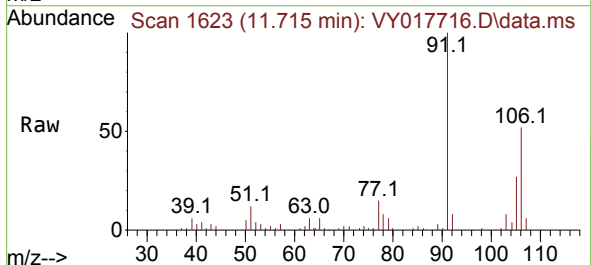
Instrument :
MSVOA_Y
ClientSampleId :
342

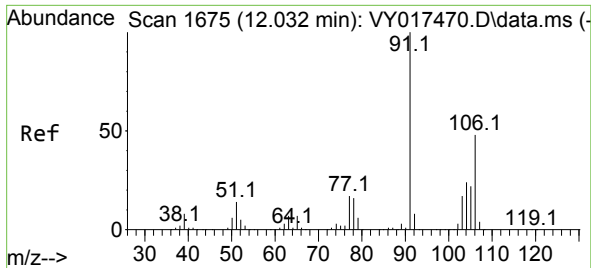
Tgt Ion:117 Resp: 166765
Ion Ratio Lower Upper
117 100
82 50.6 42.4 63.6
119 31.9 25.9 38.9



#68
m/p-Xylenes
Concen: 4.829 ug/l
RT: 11.715 min Scan# 1623
Delta R.T. 0.006 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

Tgt Ion:106 Resp: 11780
Ion Ratio Lower Upper
106 100
91 198.7 156.0 234.0

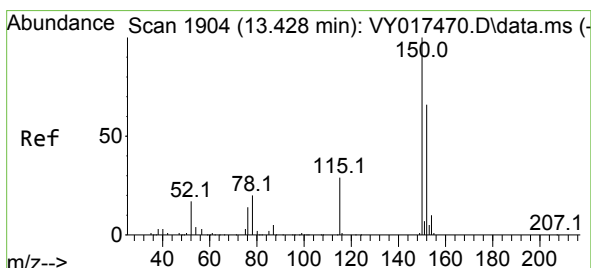
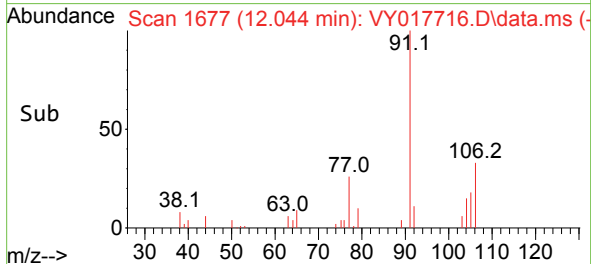
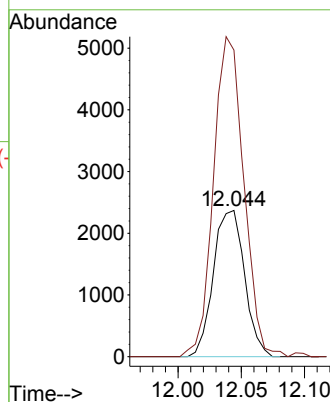
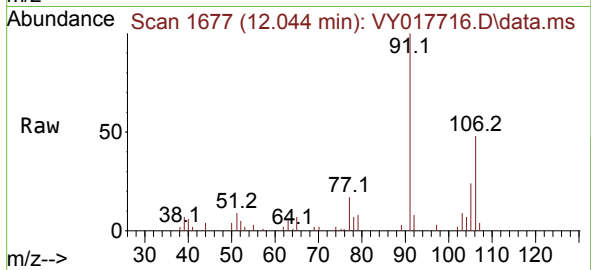




#69
o-Xylene
Concen: 1.792 ug/l
RT: 12.044 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

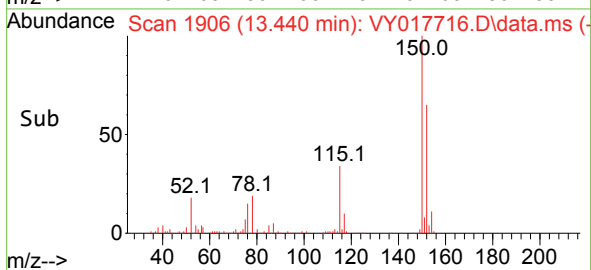
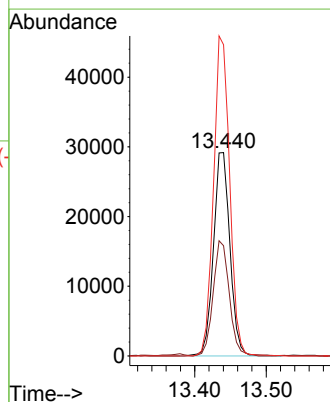
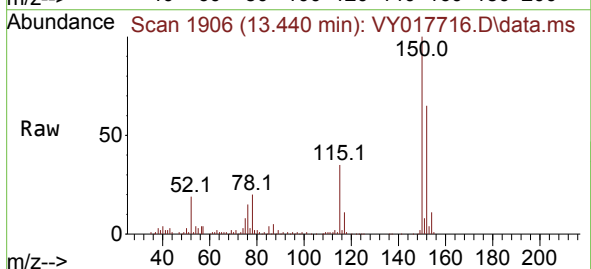
Instrument :
MSVOA_Y
ClientSampleId :
342

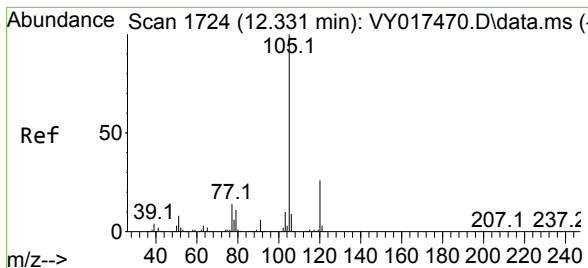
Tgt Ion:106 Resp: 4055
Ion Ratio Lower Upper
106 100
91 212.7 103.6 310.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.440 min Scan# 1906
Delta R.T. 0.012 min
Lab File: VY017716.D
Acq: 19 Mar 2024 18:54

Tgt Ion:152 Resp: 46634
Ion Ratio Lower Upper
152 100
115 55.5 28.2 84.7
150 153.8 0.0 345.6





#73

Isopropylbenzene

Concen: 2.724 ug/l

RT: 12.349 min Scan# 11

Delta R.T. 0.018 min

Lab File: VY017716.D

Acq: 19 Mar 2024 18:54

Instrument :

MSVOA_Y

ClientSampleId :

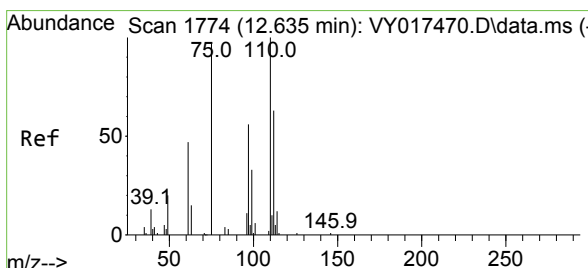
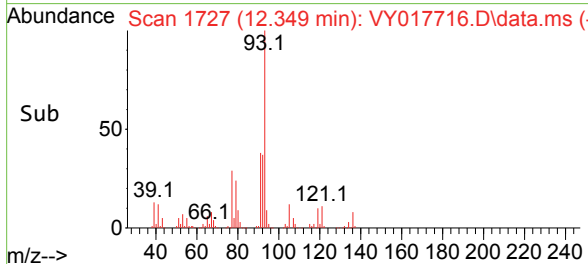
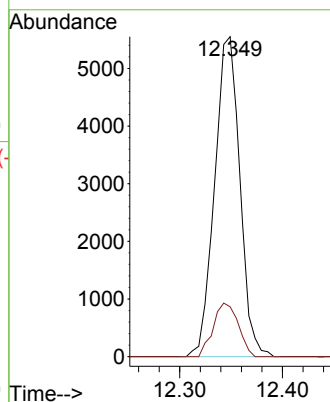
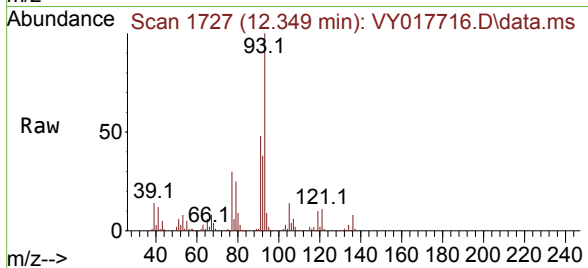
342

Tgt Ion:105 Resp: 9437

Ion Ratio Lower Upper

105 100

120 16.7 13.4 40.1



#76

1,2,3-Trichloropropane

Concen: 63.953 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.146 min

Lab File: VY017716.D

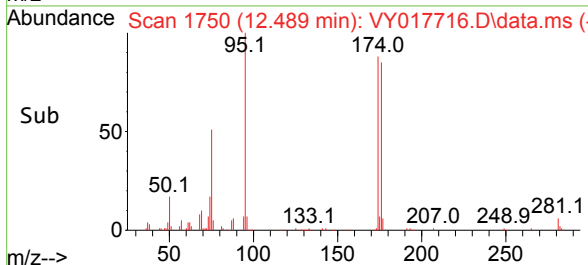
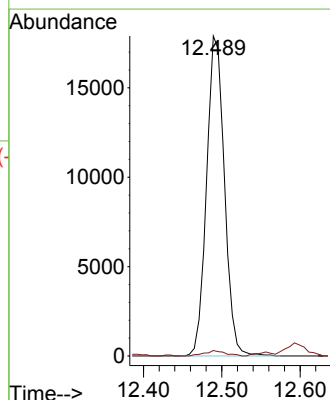
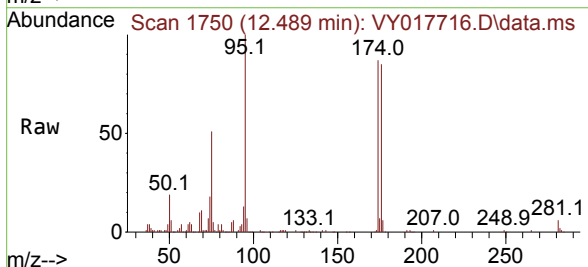
Acq: 19 Mar 2024 18:54

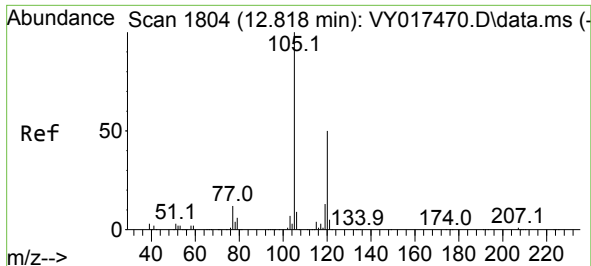
Tgt Ion: 75 Resp: 28337

Ion Ratio Lower Upper

75 100

77 1.9 0.0 0.0#

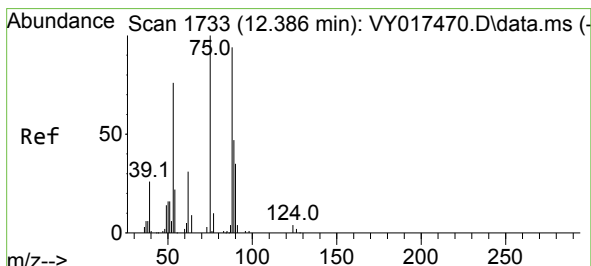
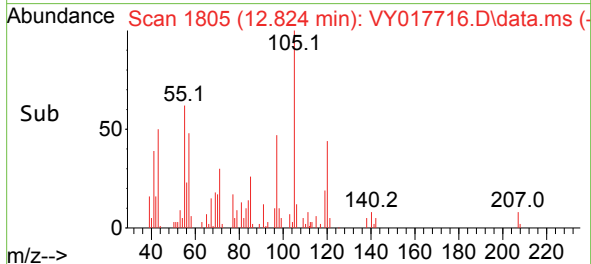
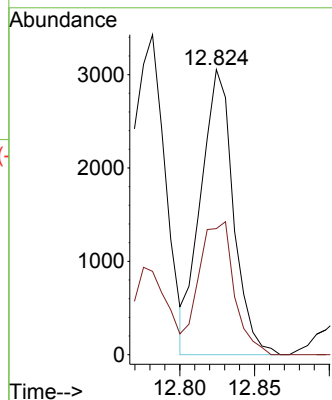
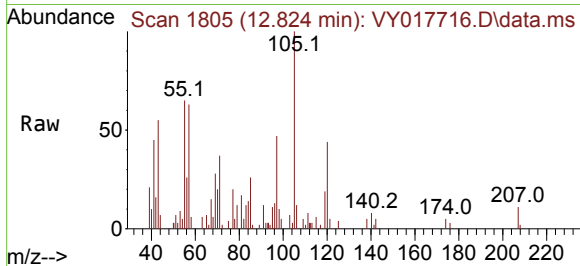




#80
 1,3,5-Trimethylbenzene
 Concen: 1.676 ug/l
 RT: 12.824 min Scan# 1750
 Delta R.T. 0.006 min
 Lab File: VY017716.D
 Acq: 19 Mar 2024 18:54

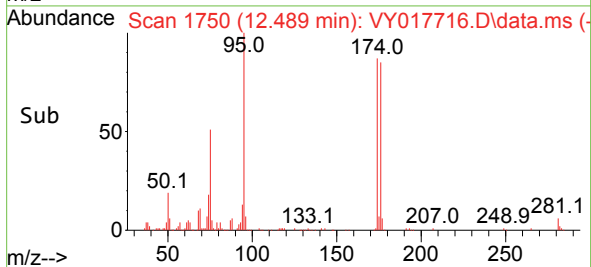
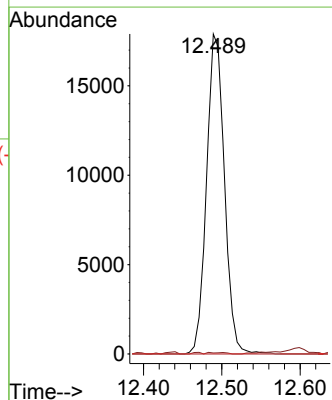
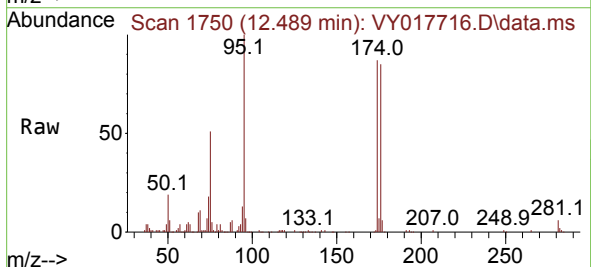
Instrument :
 MSVOA_Y
 ClientSampleId :
 342

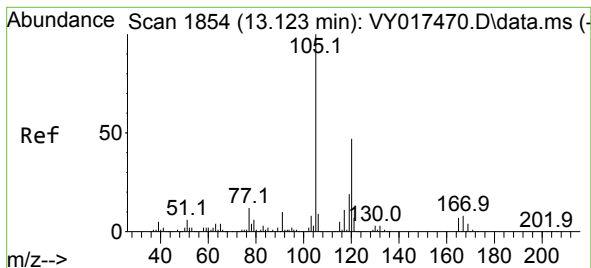
Tgt Ion:105 Resp: 4651
 Ion Ratio Lower Upper
 105 100
 120 50.2 25.1 75.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 146.949 ug/l
 RT: 12.489 min Scan# 1750
 Delta R.T. 0.104 min
 Lab File: VY017716.D
 Acq: 19 Mar 2024 18:54

Tgt Ion: 75 Resp: 28337
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.8 100.2#
 89 0.0 35.8 53.6#





#84

1,2,4-Trimethylbenzene

Concen: 6.692 ug/l

RT: 13.129 min Scan# 1854

Delta R.T. 0.006 min

Lab File: VY017716.D

Acq: 19 Mar 2024 18:54

Instrument :

MSVOA_Y

ClientSampleId :

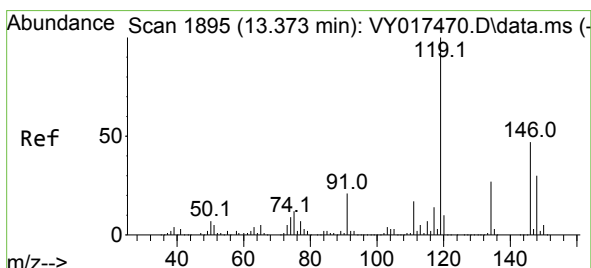
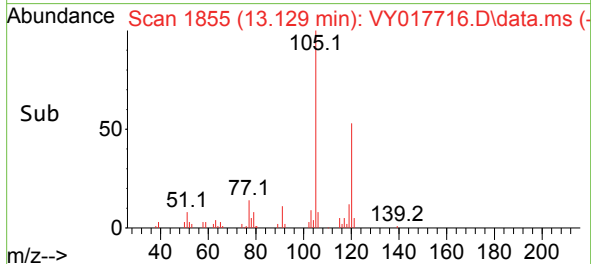
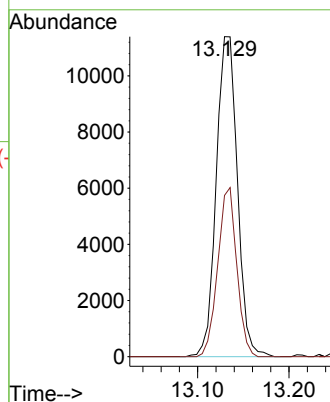
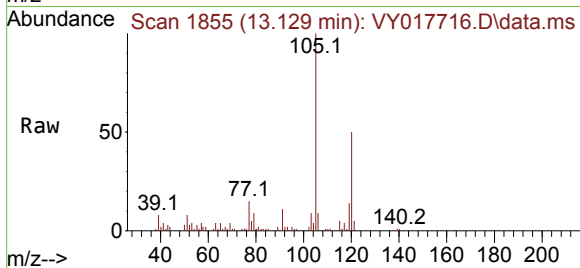
342

Tgt Ion:105 Resp: 18338

Ion Ratio Lower Upper

105 100

120 47.5 23.2 69.6



#86

p-Isopropyltoluene

Concen: 1.170 ug/l

RT: 13.379 min Scan# 1896

Delta R.T. 0.006 min

Lab File: VY017716.D

Acq: 19 Mar 2024 18:54

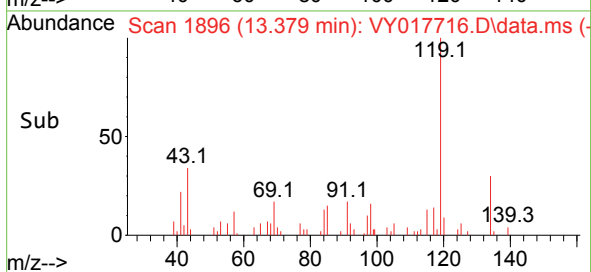
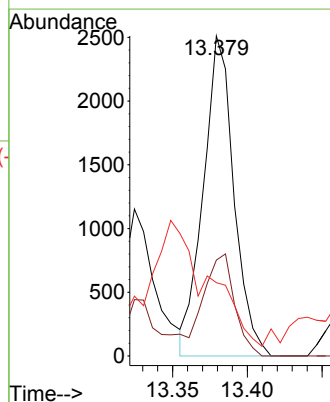
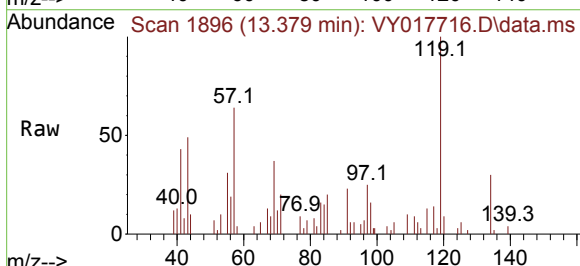
Tgt Ion:119 Resp: 3568

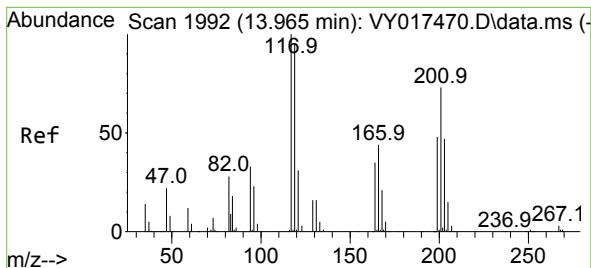
Ion Ratio Lower Upper

119 100

134 34.9 13.1 39.3

91 0.0 10.7 32.1#





#90

Hexachloroethane

Concen: 1.316 ug/l

RT: 13.977 min Scan# 1994

Delta R.T. 0.012 min

Lab File: VY017716.D

Acq: 19 Mar 2024 18:54

Instrument :

MSVOA_Y

ClientSampleId :

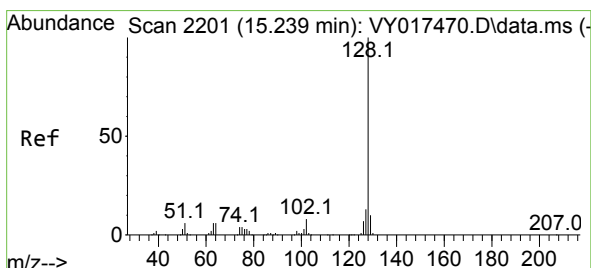
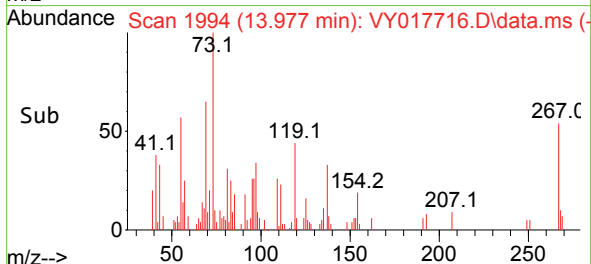
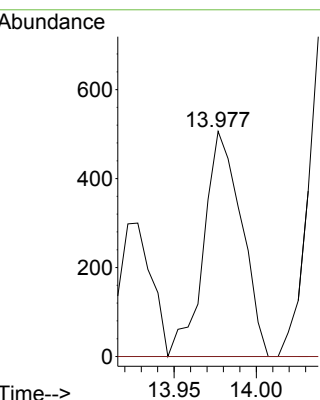
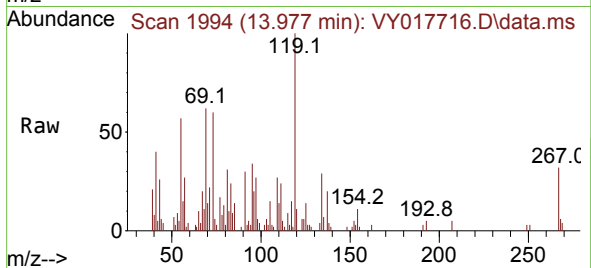
342

Tgt Ion:117 Resp: 805

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#



#95

Naphthalene

Concen: 18.420 ug/l

RT: 15.245 min Scan# 2202

Delta R.T. 0.006 min

Lab File: VY017716.D

Acq: 19 Mar 2024 18:54

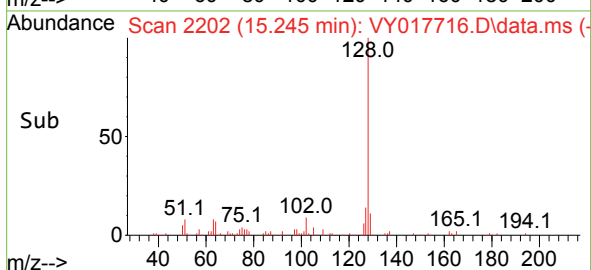
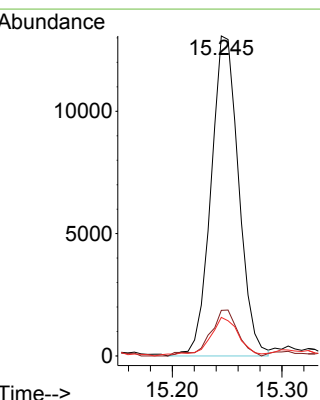
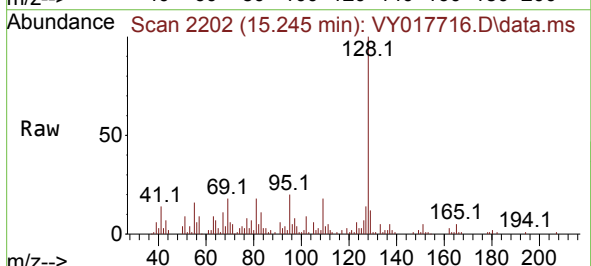
Tgt Ion:128 Resp: 22945

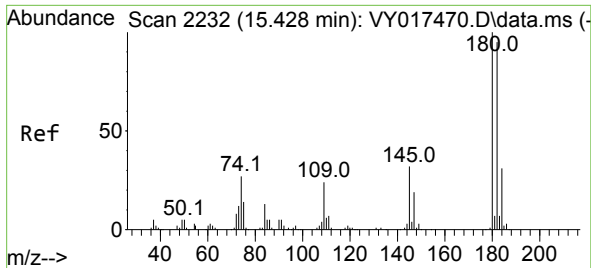
Ion Ratio Lower Upper

128 100

127 14.4 10.6 16.0

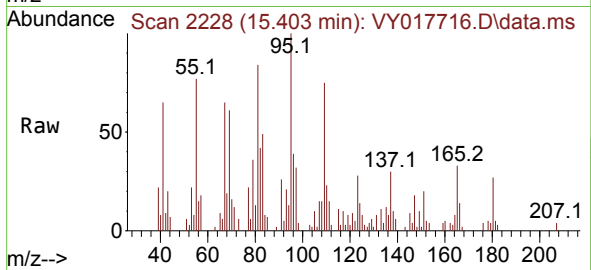
129 12.7 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 2.545 ug/l
 RT: 15.403 min Scan# 21
 Delta R.T. -0.024 min
 Lab File: VY017716.D
 Acq: 19 Mar 2024 18:54

Instrument :
 MSVOA_Y
 ClientSampleId :
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Tgt Ion:	180	Resp:	1643
Ion Ratio	Lower	Upper	
180	100		
182	7.8	47.6	142.9#
145	27.8	15.4	46.1

