

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060624\
 Data File : VY018508.D
 Acq On : 06 Jun 2024 16:26
 Operator : SY/MD
 Sample : P2707-02
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-02

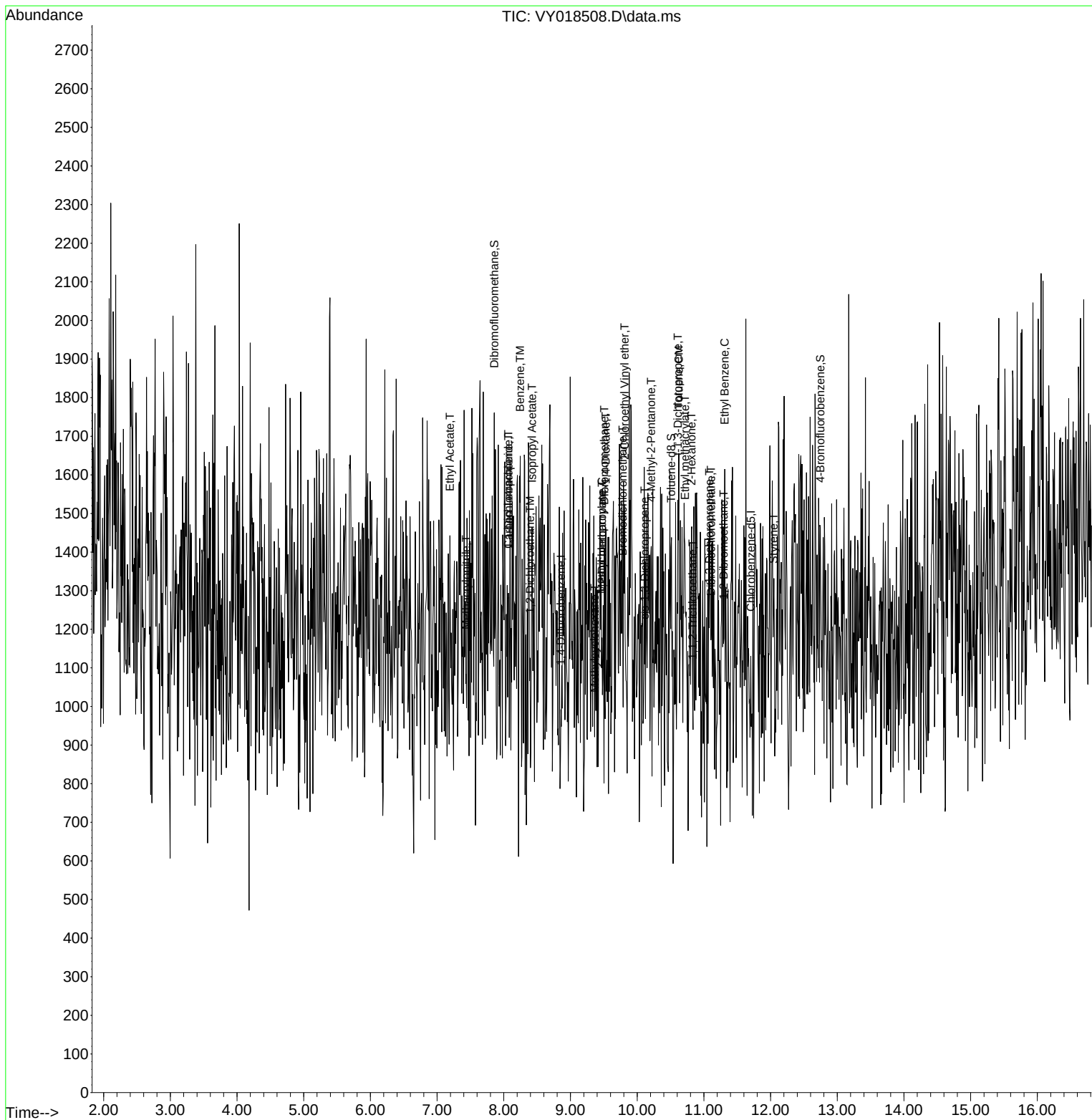
Quant Time: Jun 07 02:27:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060324S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 07:11:56 2024
 Response via : Initial Calibration

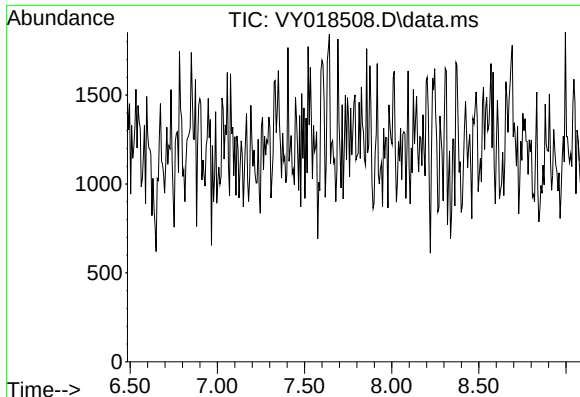
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	0.000	168	0	0.000	ug/l	-7.78
34) 1,4-Difluorobenzene	8.856	114	26	50.000	ug/l	0.17
63) Chlorobenzene-d5	11.703	117	26	50.000	ug/l	# 0.21
72) 1,4-Dichlorobenzene-d4	0.000	152	0	0.000	ug/l	-13.42
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.161	65	60	0.000	ug/l	0.02
Spiked Amount 50.000	Range 50 - 163		Recovery =	0.000%	#	
35) Dibromofluoromethane	7.856	113	18	54.595	ug/l	0.15
Spiked Amount 50.000	Range 54 - 147		Recovery =	109.200%		
50) Toluene-d8	10.508	98	29	22.110	ug/l	0.34
Spiked Amount 50.000	Range 58 - 134		Recovery =	44.220%	#	
62) 4-Bromofluorobenzene	12.745	95	18	44.077	ug/l	0.27
Spiked Amount 50.000	Range 30 - 143		Recovery =	88.160%		
Target Compounds						Qvalue
36) 1,1-Dichloropropene	8.069	75	89	177.040	ug/l #	83
37) Ethyl Acetate	7.192	43	61	242.895	ug/l #	48
38) Carbon Tetrachloride	8.069	117	36	71.462	ug/l #	13
39) Methylcyclohexane	9.362	83	35	51.502	ug/l #	22
40) Benzene	8.246	78	27	17.925	ug/l #	1
41) Methacrylonitrile	7.435	41	183	1498.082	ug/l #	23
42) 1,2-Dichloroethane	8.393	62	20	54.615	ug/l #	71
43) Isopropyl Acetate	8.423	43	80	170.363	ug/l #	47
45) 1,2-Dichloropropane	9.472	63	54	156.761	ug/l #	43
46) Dibromomethane	9.508	93	23	116.456	ug/l #	3
47) Bromodichloromethane	9.783	83	54	113.903	ug/l #	26
48) Methyl methacrylate	9.472	41	77	356.400	ug/l #	27
49) 1,4-Dioxane	9.527	88	20	7711.406	ug/l #	20
51) 4-Methyl-2-Pentanone	10.209	43	49	200.955	ug/l	87
52) Toluene	10.624	92	20	21.588	ug/l	83
53) t-1,3-Dichloropropene	10.612	75	32	73.501	ug/l #	45
54) cis-1,3-Dichloropropene	10.112	75	21	39.175	ug/l #	40
55) 1,1,2-Trichloroethane	10.831	97	26	101.187	ug/l #	16
56) Ethyl methacrylate	10.715	69	20	55.313	ug/l #	33
57) 1,3-Dichloropropane	11.081	76	50	114.624	ug/l #	42
58) 2-Chloroethyl Vinyl ether	9.813	63	39	200.856	ug/l #	45
59) 2-Hexanone	10.813	43	92	545.992	ug/l	89
60) Dibromochloromethane	11.106	129	29	92.381	ug/l #	10
61) 1,2-Dibromoethane	11.294	107	34	140.517	ug/l #	2
67) Ethyl Benzene	11.313	91	50	24.637	ug/l #	44
70) Styrene	12.044	104	59	49.088	ug/l #	27

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

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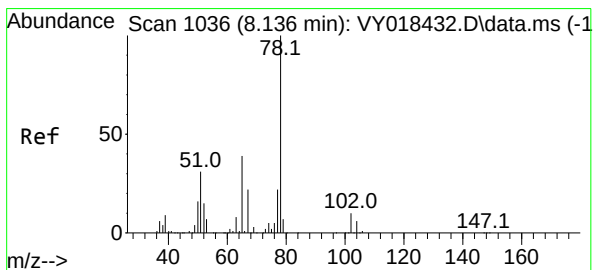
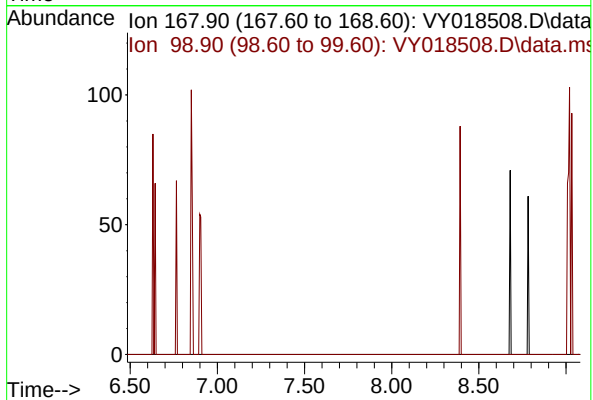




#1
 Pentafluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 7.78 min
 Lab File: VY018508.D
 Acq: 06 Jun 2024 16:26

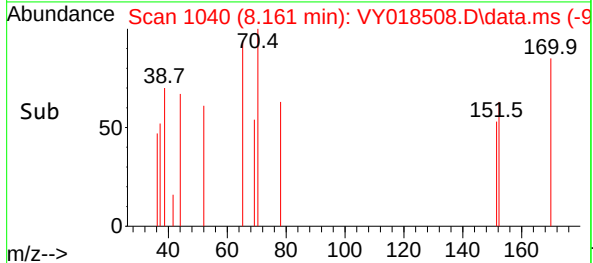
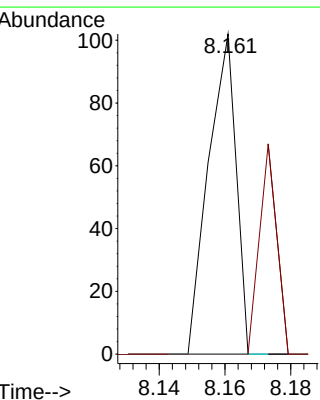
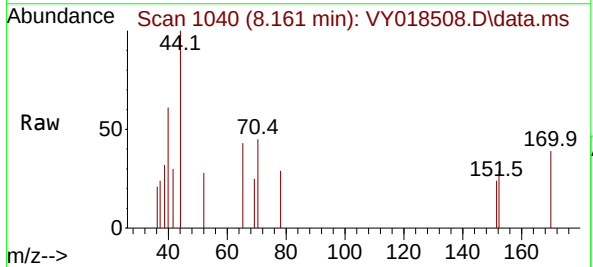
Instrument :
 MSVOA_Y
 ClientSampleId :
 B-02

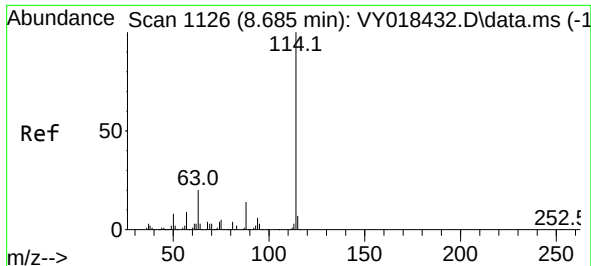
Tgt Ion: 168
 Sig Exp Ratio
 168 100
 99 48.9



#33
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 RT: 8.161 min Scan# 1040
 Delta R.T. 0.024 min
 Lab File: VY018508.D
 Acq: 06 Jun 2024 16:26

Tgt Ion: 65 Resp: 60
 Ion Ratio Lower Upper
 65 100
 67 41.7 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1126

Delta R.T. 0.171 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

B-02

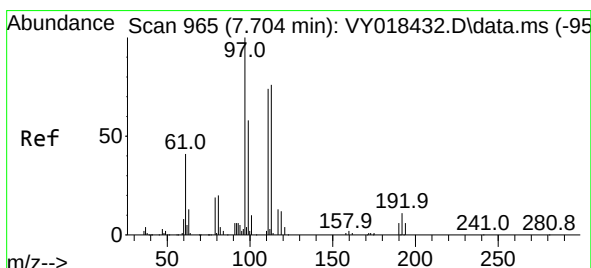
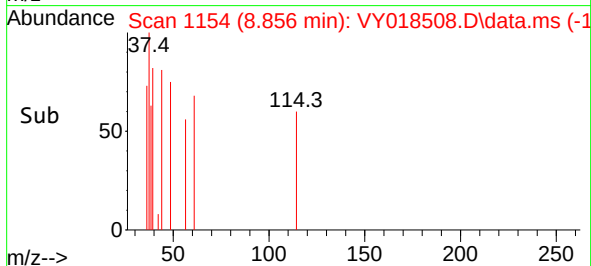
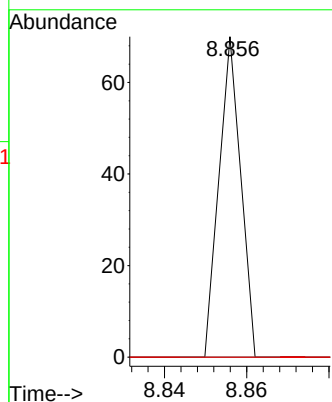
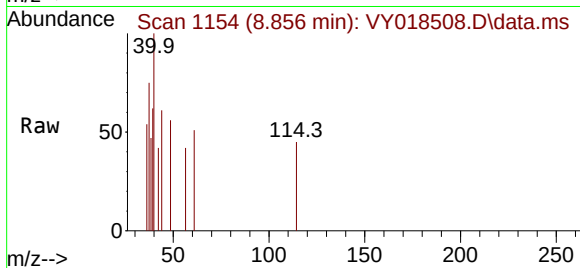
Tgt Ion:114 Resp: 26

Ion Ratio Lower Upper

114 100

63 0.0 0.0 35.0

88 0.0 0.0 27.2



#35

Dibromofluoromethane

Concen: 54.595 ug/l

RT: 7.856 min Scan# 990

Delta R.T. 0.153 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

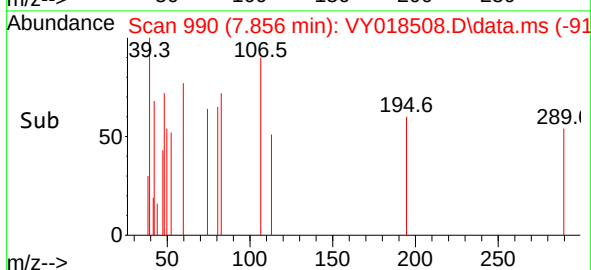
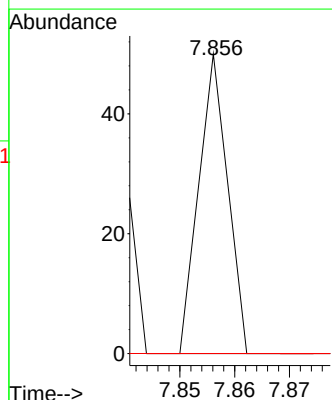
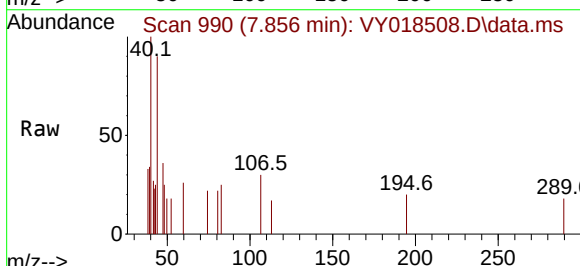
Tgt Ion:113 Resp: 18

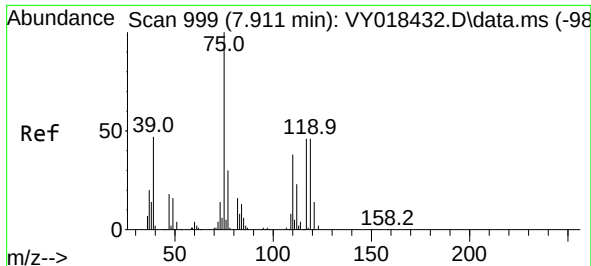
Ion Ratio Lower Upper

113 100

111 0.0 82.2 123.4#

192 0.0 15.9 23.9#

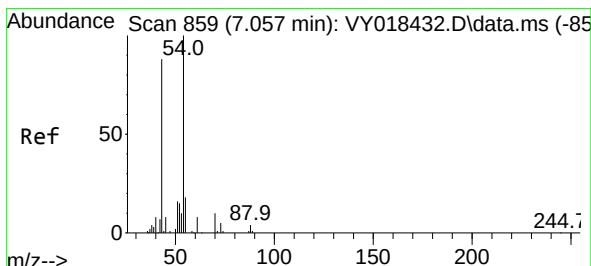
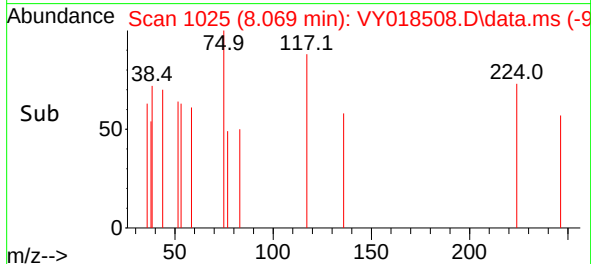
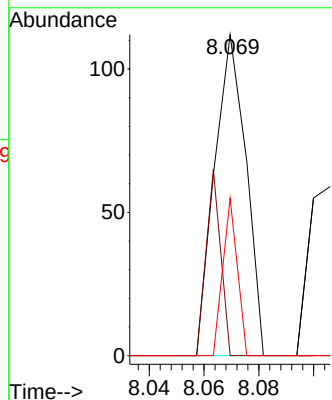
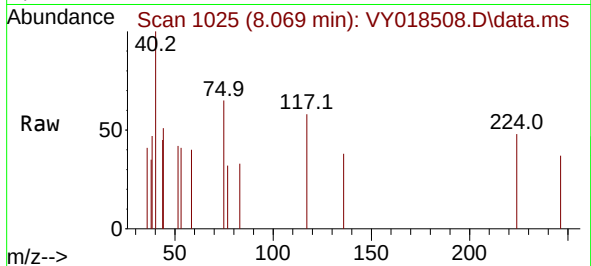




#36
1,1-Dichloropropene
Concen: 177.040 ug/l
RT: 8.069 min Scan# 110
Delta R.T. 0.159 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

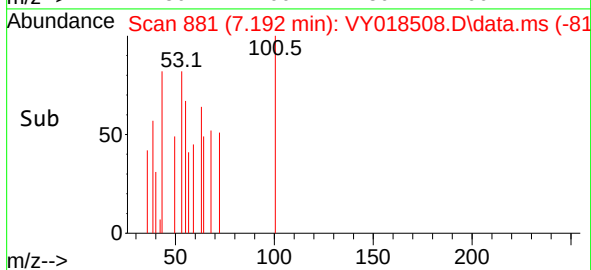
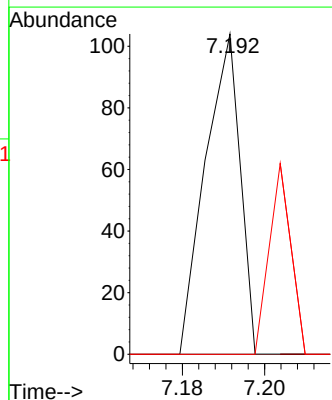
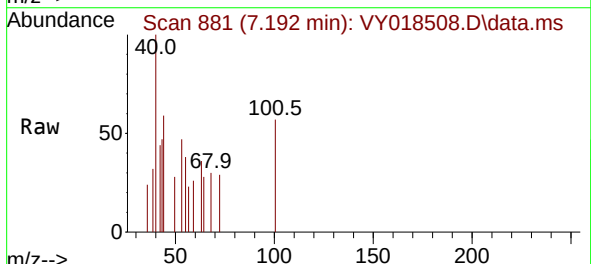
Instrument :
MSVOA_Y
ClientSampleId :
B-02

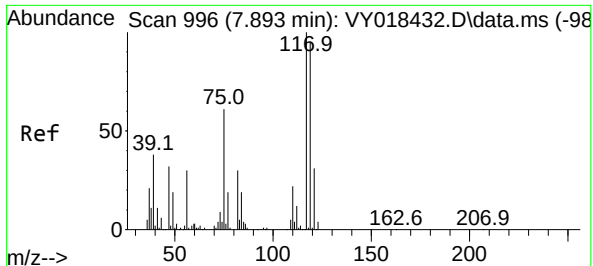
Tgt Ion: 75 Resp: 89
Ion Ratio Lower Upper
75 100
110 27.0 19.0 57.0
77 22.5 25.3 37.9#



#37
Ethyl Acetate
Concen: 242.895 ug/l
RT: 7.192 min Scan# 881
Delta R.T. 0.134 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

Tgt Ion: 43 Resp: 61
Ion Ratio Lower Upper
43 100
61 0.0 12.6 19.0#
70 37.7 7.8 11.8#

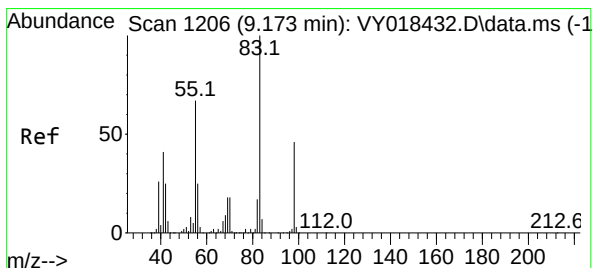
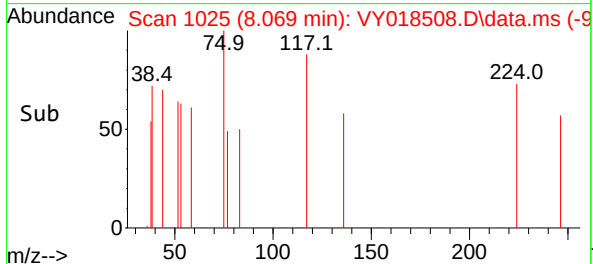
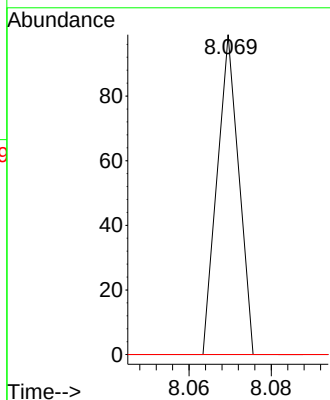
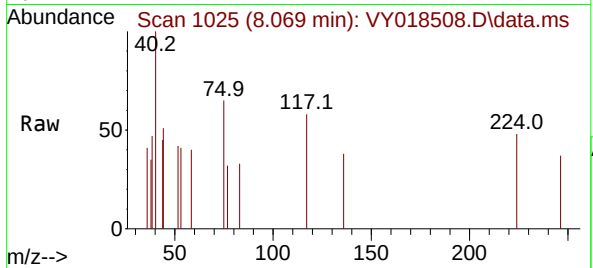




#38
Carbon Tetrachloride
Concen: 71.462 ug/l
RT: 8.069 min Scan# 117
Delta R.T. 0.177 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

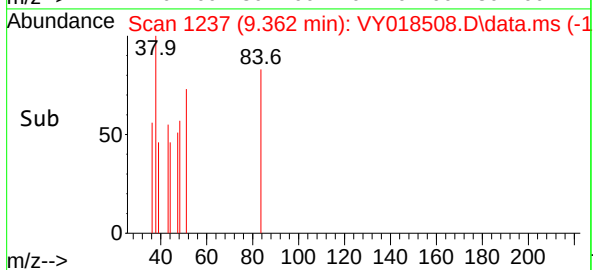
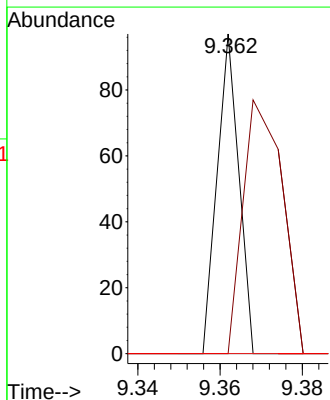
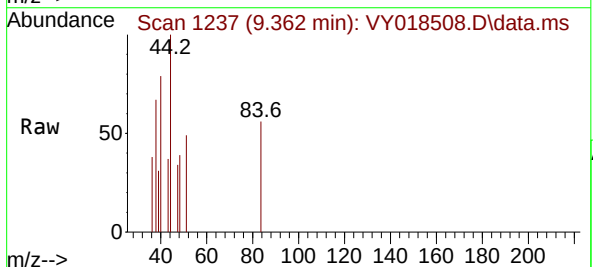
Instrument :
MSVOA_Y
ClientSampleId :
B-02

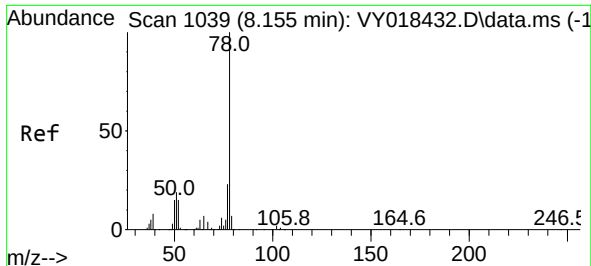
Tgt Ion:117 Resp: 36
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 24.0 36.0#



#39
Methylcyclohexane
Concen: 51.502 ug/l
RT: 9.362 min Scan# 1237
Delta R.T. 0.189 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

Tgt Ion: 83 Resp: 35
Ion Ratio Lower Upper
83 100
55 0.0 51.5 77.3#
98 0.0 40.5 60.7#

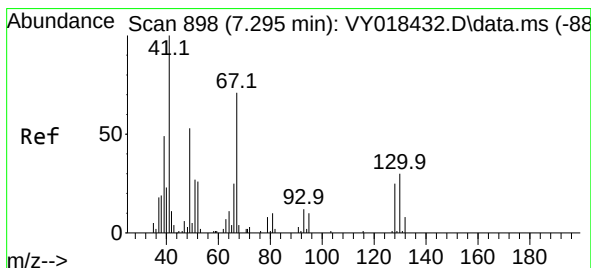
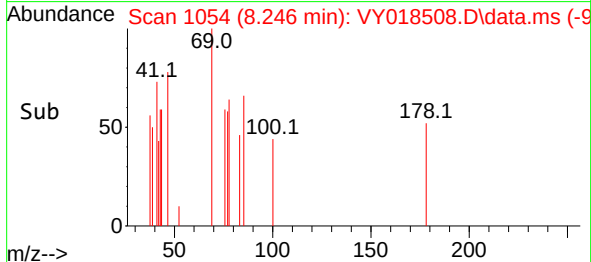
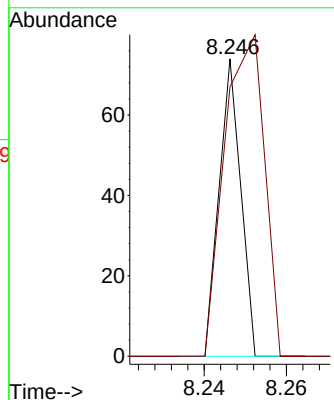
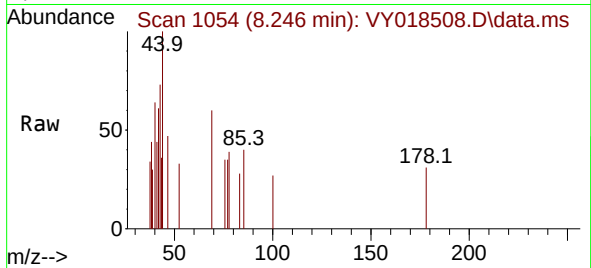




#40
Benzene
Concen: 17.925 ug/l
RT: 8.246 min Scan# 1039
Delta R.T. 0.092 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

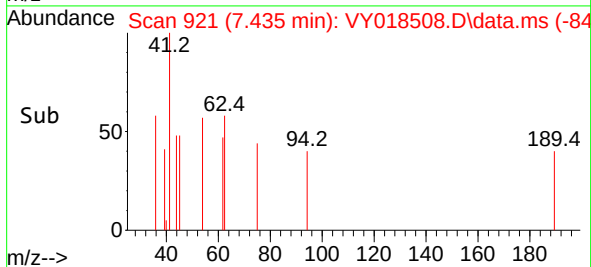
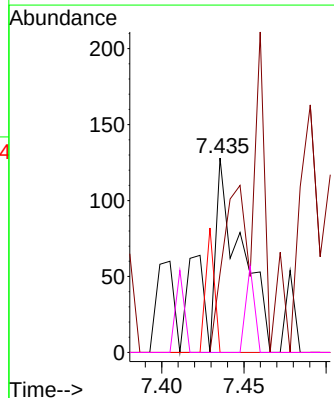
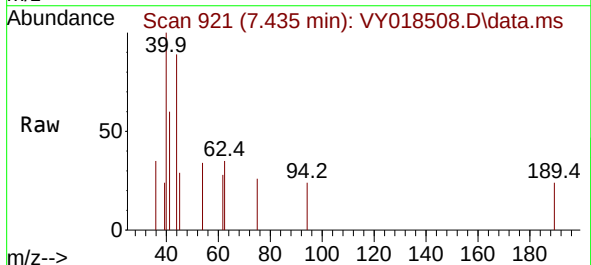
Instrument :
MSVOA_Y
ClientSampleId :
B-02

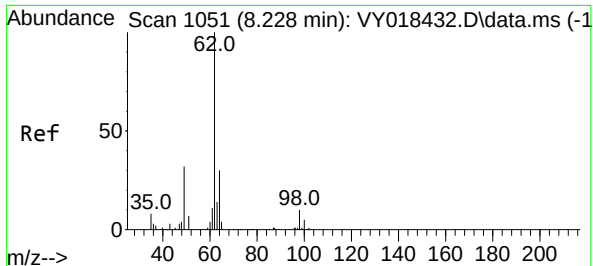
Tgt Ion: 78 Resp: 27
Ion Ratio Lower Upper
78 100
77 90.5 19.5 29.3#



#41
Methacrylonitrile
Concen: 1498.082 ug/l
RT: 7.435 min Scan# 921
Delta R.T. 0.140 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

Tgt Ion: 41 Resp: 183
Ion Ratio Lower Upper
41 100
39 0.0 48.0 72.0#
67 16.4 75.1 112.7#
52 0.0 29.8 44.6#





#42

1,2-Dichloroethane

Concen: 54.615 ug/l

RT: 8.393 min Scan# 1078

Delta R.T. 0.165 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

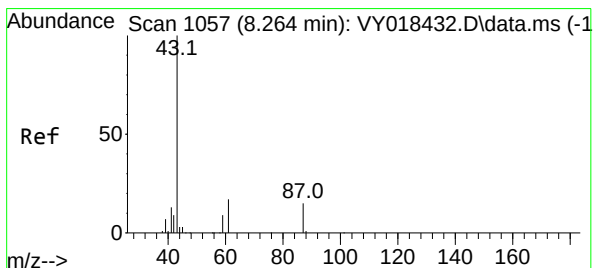
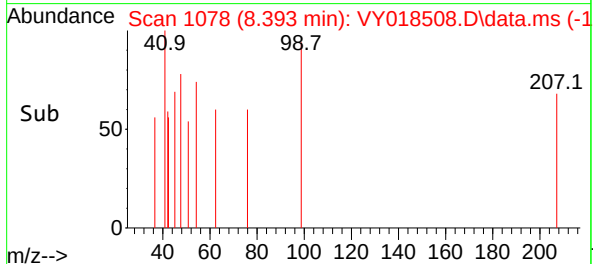
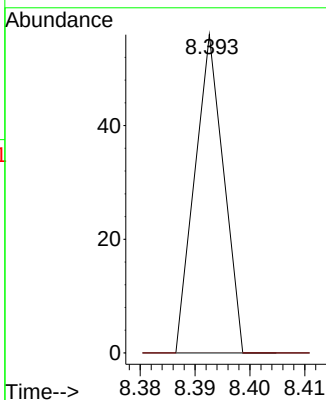
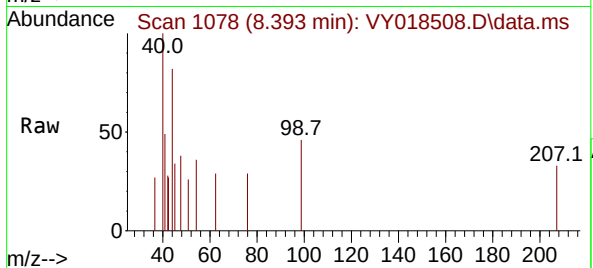
B-02

Tgt Ion: 62 Resp: 20

Ion Ratio Lower Upper

62 100

98 0.0 0.0 22.0



#43

Isopropyl Acetate

Concen: 170.363 ug/l

RT: 8.423 min Scan# 1083

Delta R.T. 0.159 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

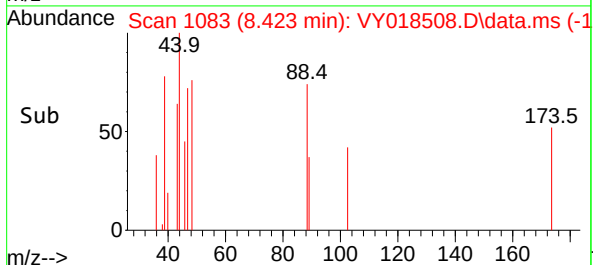
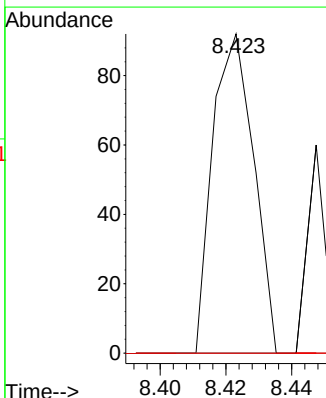
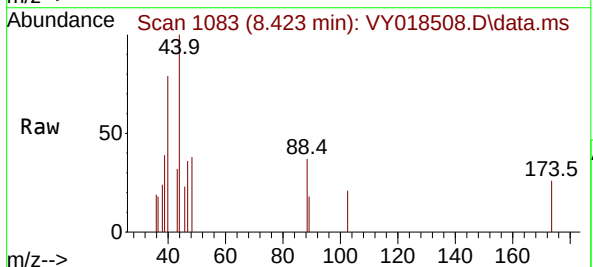
Tgt Ion: 43 Resp: 80

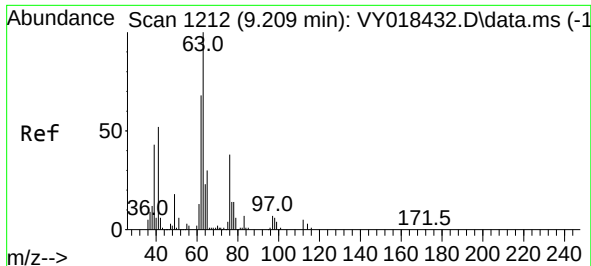
Ion Ratio Lower Upper

43 100

61 0.0 27.9 41.9#

87 0.0 13.1 19.7#





#45

1,2-Dichloropropane

Concen: 156.761 ug/l

RT: 9.472 min Scan# 11

Delta R.T. 0.262 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

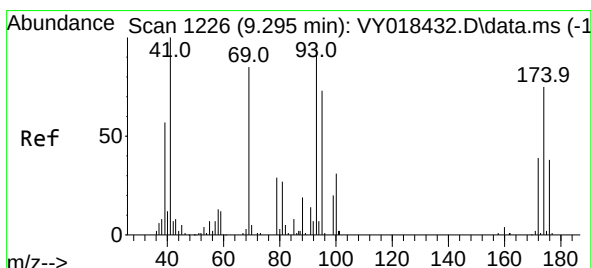
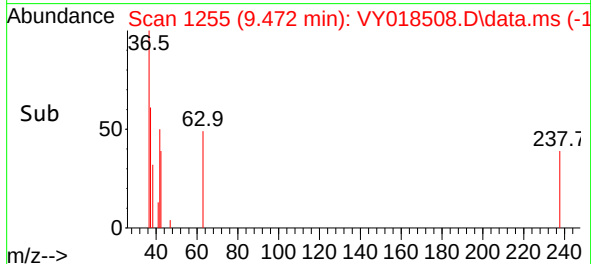
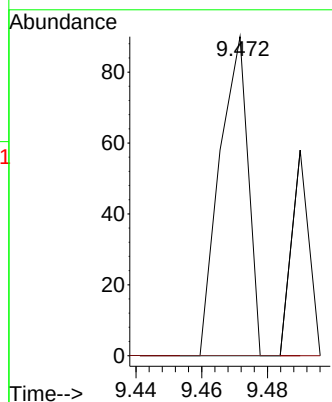
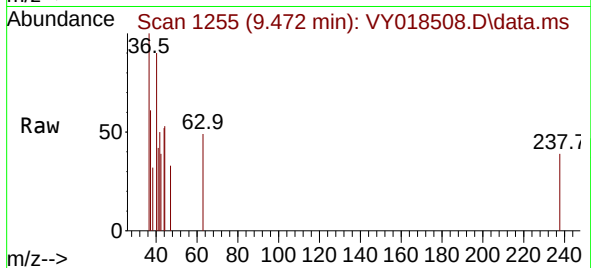
B-02

Tgt Ion: 63 Resp: 54

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#46

Dibromomethane

Concen: 116.456 ug/l

RT: 9.508 min Scan# 1261

Delta R.T. 0.214 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

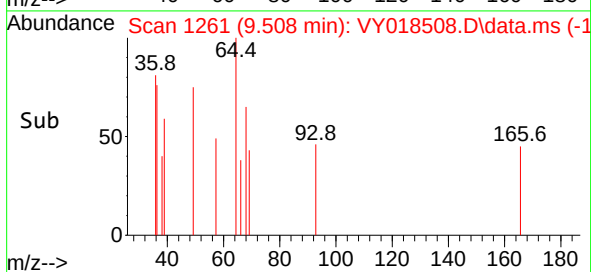
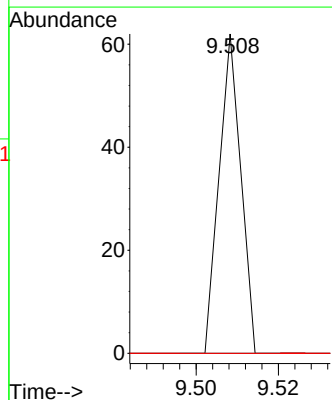
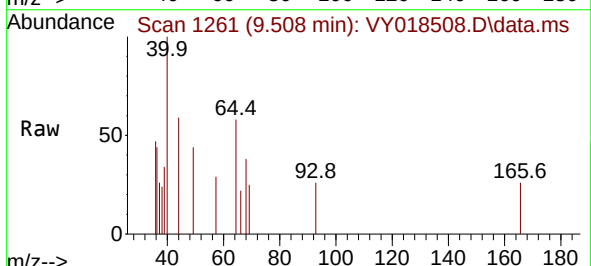
Tgt Ion: 93 Resp: 23

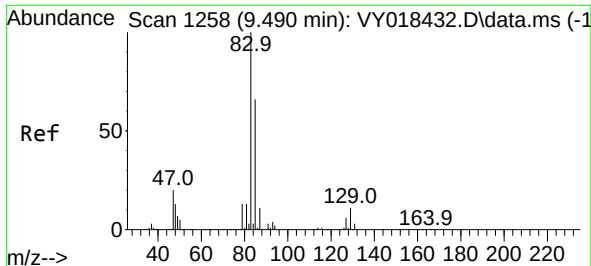
Ion Ratio Lower Upper

93 100

95 0.0 66.2 99.4#

174 0.0 80.9 121.3#

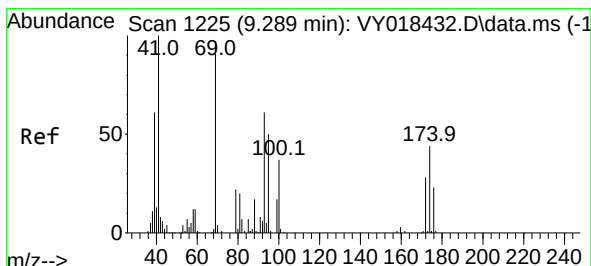
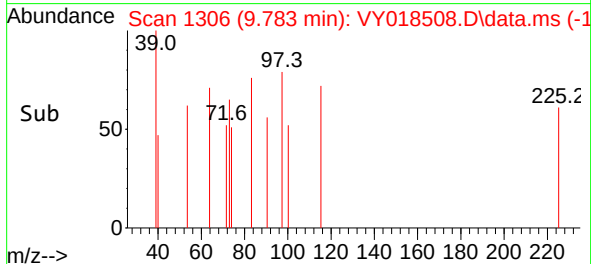
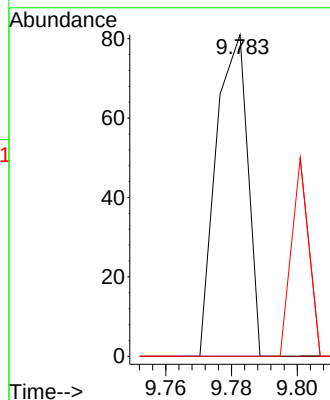
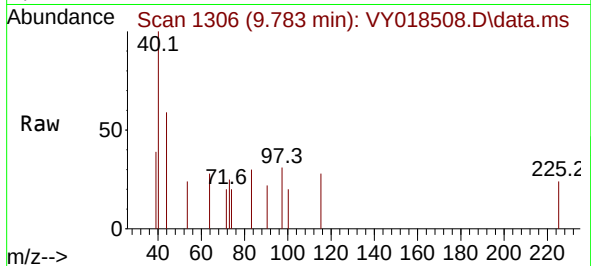




#47
Bromodichloromethane
Concen: 113.903 ug/l
RT: 9.783 min Scan# 11
Delta R.T. 0.293 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

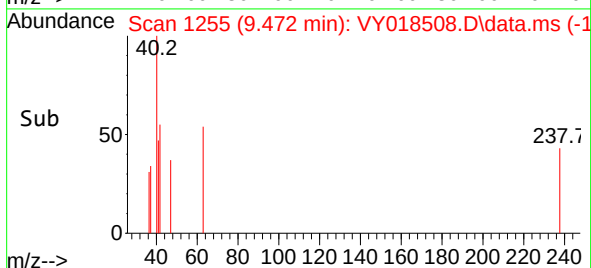
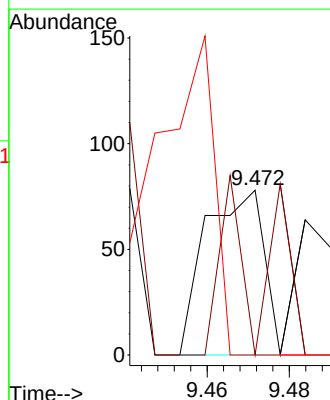
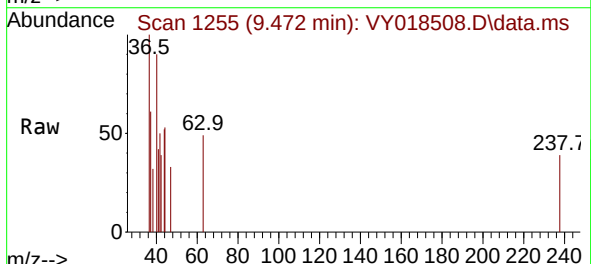
Instrument :
MSVOA_Y
ClientSampleId :
B-02

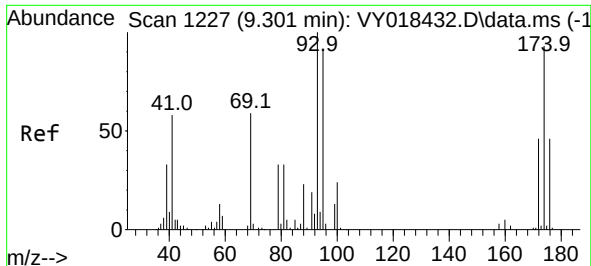
Tgt Ion: 83 Resp: 54
Ion Ratio Lower Upper
83 100
85 0.0 50.1 75.1#
127 0.0 7.4 11.0#



#48
Methyl methacrylate
Concen: 356.400 ug/l
RT: 9.472 min Scan# 1255
Delta R.T. 0.183 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

Tgt Ion: 41 Resp: 77
Ion Ratio Lower Upper
41 100
69 79.2 84.1 126.1#
39 172.7 43.6 65.4#





#49

1,4-Dioxane

Concen: 7711.406 ug/l

RT: 9.527 min Scan# 1

Delta R.T. 0.226 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

B-02

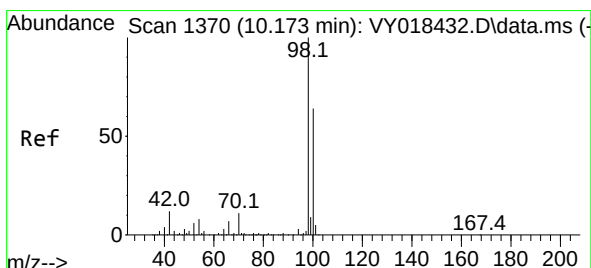
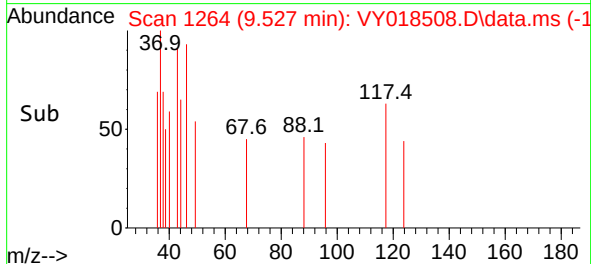
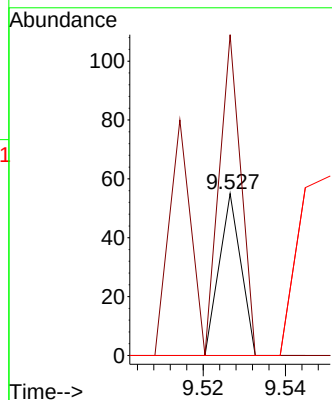
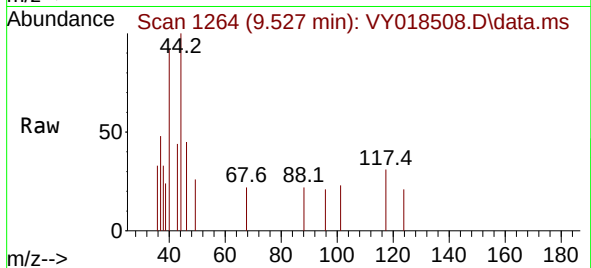
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 145.0 0.0 0.0#

58 0.0 49.3 73.9#



#50

Toluene-d8

Concen: 22.110 ug/l

RT: 10.508 min Scan# 1425

Delta R.T. 0.335 min

Lab File: VY018508.D

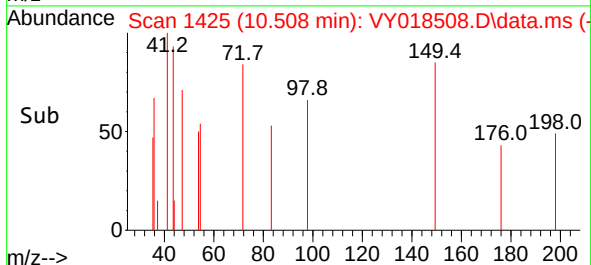
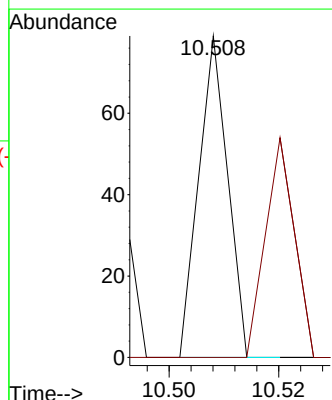
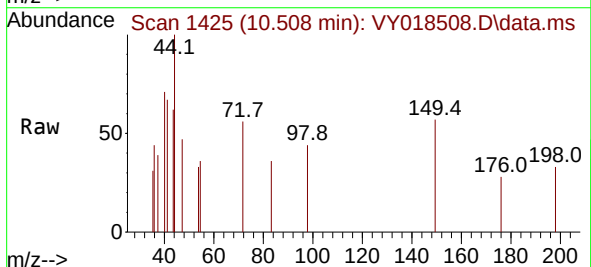
Acq: 06 Jun 2024 16:26

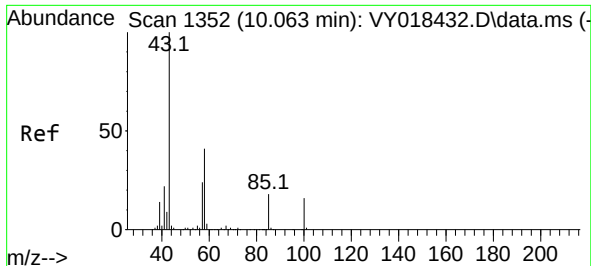
Tgt Ion: 98 Resp: 29

Ion Ratio Lower Upper

98 100

100 69.0 52.0 78.0

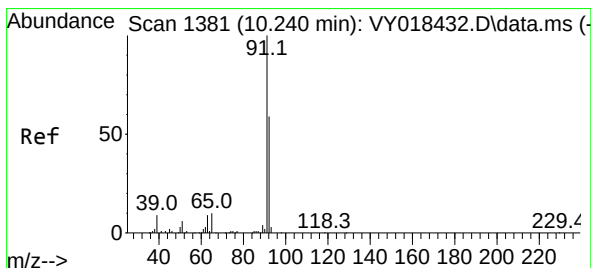
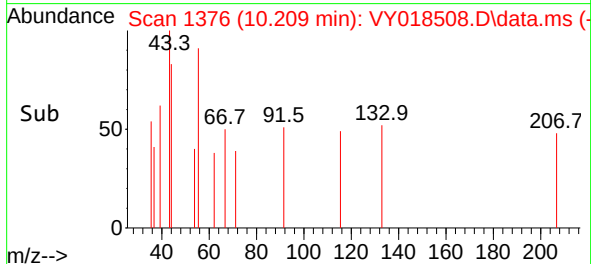
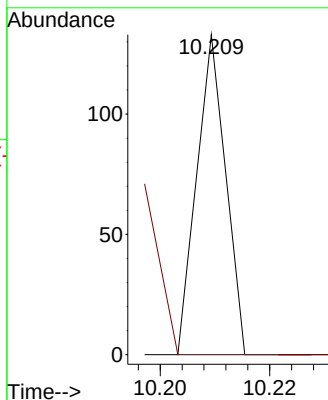
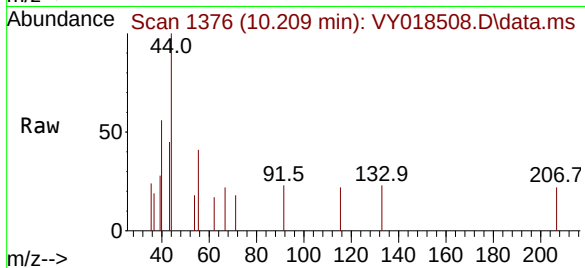




#51
4-Methyl-2-Pentanone
Concen: 200.955 ug/l
RT: 10.209 min Scan# 11
Delta R.T. 0.146 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

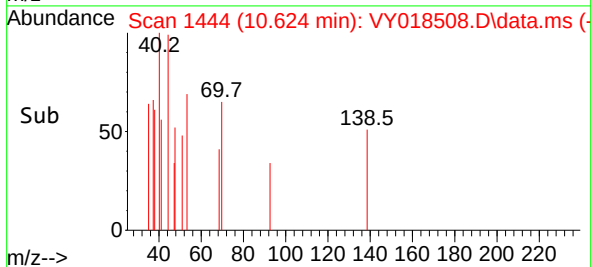
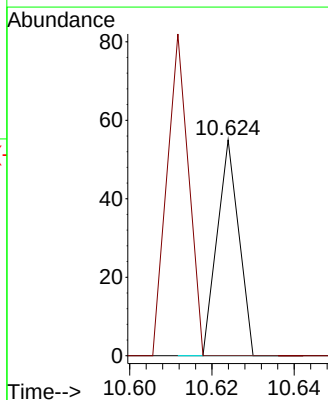
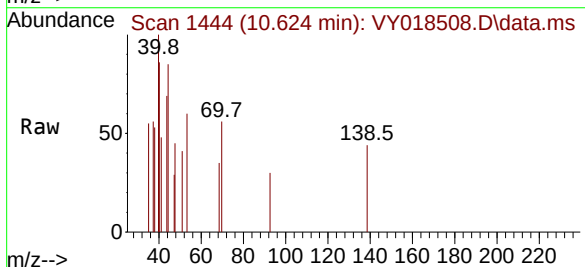
Instrument :
MSVOA_Y
ClientSampleId :
B-02

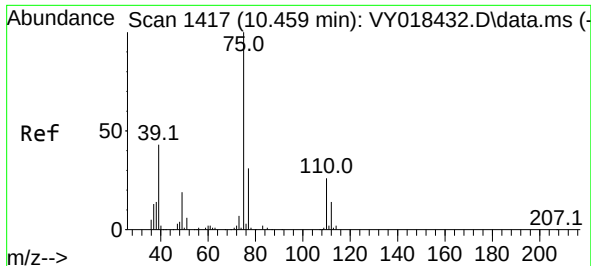
Tgt Ion: 43 Resp: 49
Ion Ratio Lower Upper
43 100
58 53.1 35.7 53.5



#52
Toluene
Concen: 21.588 ug/l
RT: 10.624 min Scan# 1444
Delta R.T. 0.384 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

Tgt Ion: 92 Resp: 20
Ion Ratio Lower Upper
92 100
91 150.0 139.0 208.6

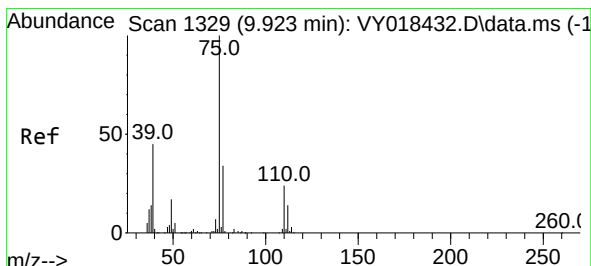
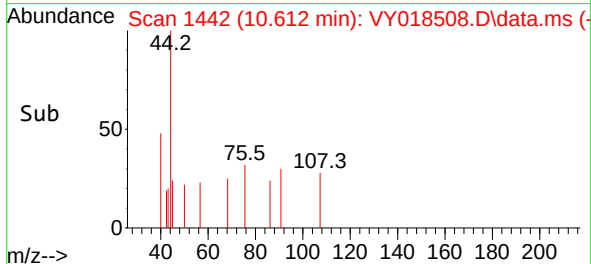
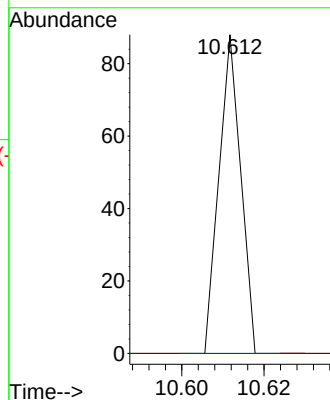
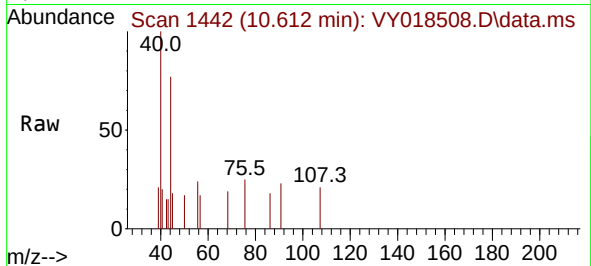




#53
t-1,3-Dichloropropene
Concen: 73.501 ug/l
RT: 10.612 min Scan# 1417
Delta R.T. 0.153 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

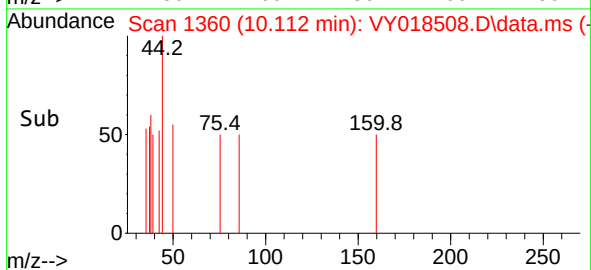
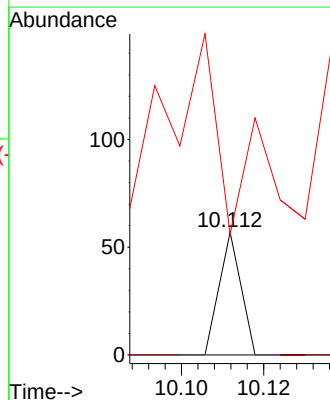
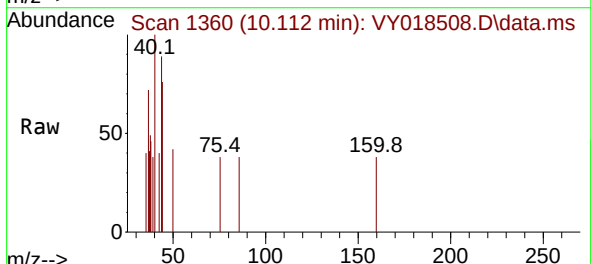
Instrument :
MSVOA_Y
ClientSampleId :
B-02

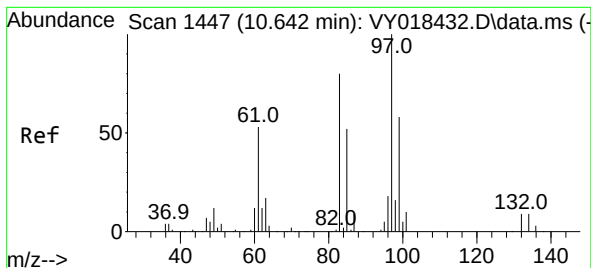
Tgt Ion: 75 Resp: 32
Ion Ratio Lower Upper
75 100
77 0.0 24.1 36.1#



#54
cis-1,3-Dichloropropene
Concen: 39.175 ug/l
RT: 10.112 min Scan# 1360
Delta R.T. 0.189 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

Tgt Ion: 75 Resp: 21
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#
39 0.0 29.8 44.6#





#55

1,1,2-Trichloroethane

Concen: 101.187 ug/l

RT: 10.831 min Scan# 1447

Delta R.T. 0.189 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

B-02

Tgt Ion: 97 Resp: 26

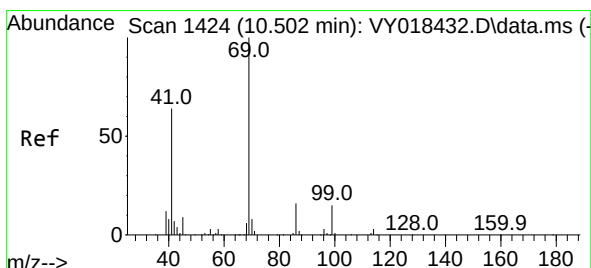
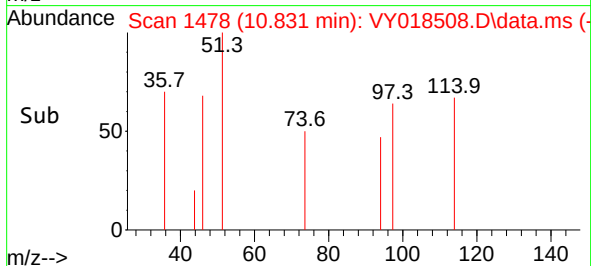
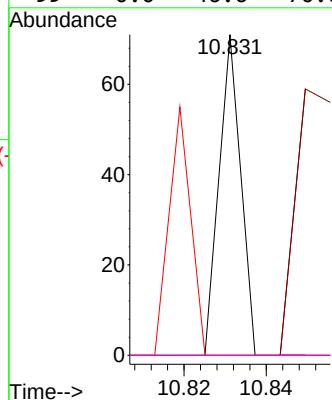
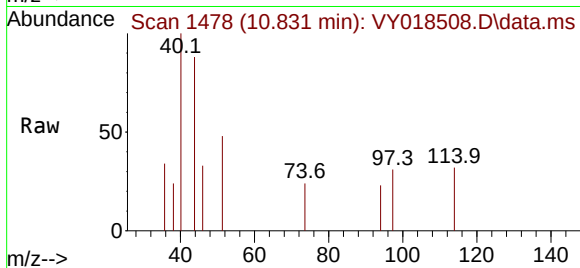
Ion Ratio Lower Upper

97 100

83 0.0 67.5 101.3#

85 0.0 42.9 64.3#

99 0.0 46.6 70.0#



#56

Ethyl methacrylate

Concen: 55.313 ug/l

RT: 10.715 min Scan# 1459

Delta R.T. 0.214 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

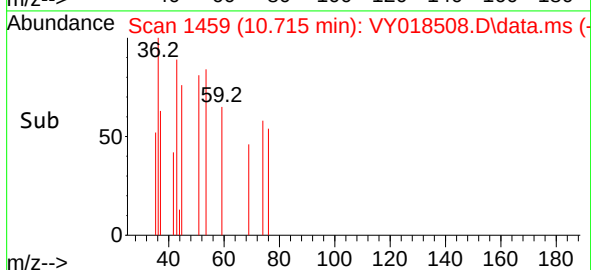
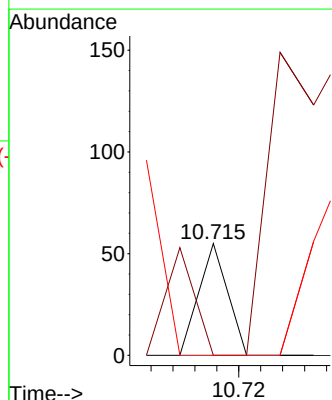
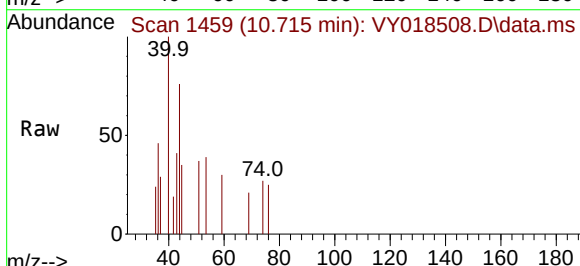
Tgt Ion: 69 Resp: 20

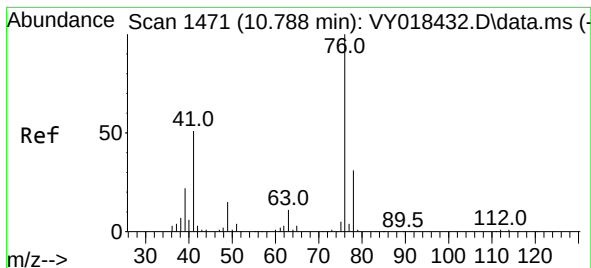
Ion Ratio Lower Upper

69 100

41 0.0 42.3 63.5#

39 0.0 22.9 34.3#





#57

1,3-Dichloropropane

Concen: 114.624 ug/l

RT: 11.081 min Scan# 11

Delta R.T. 0.293 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

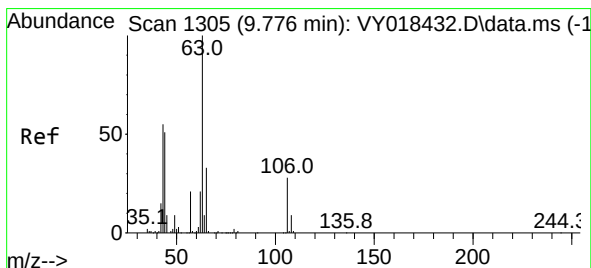
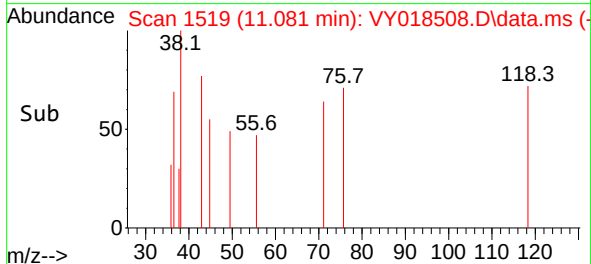
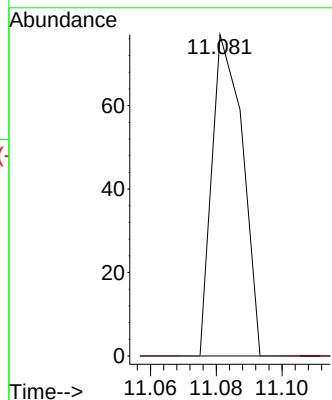
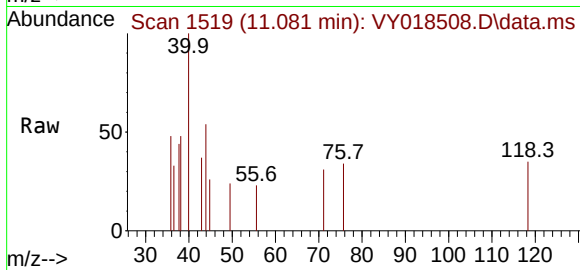
B-02

Tgt Ion: 76 Resp: 50

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#58

2-Chloroethyl Vinyl ether

Concen: 200.856 ug/l

RT: 9.813 min Scan# 1311

Delta R.T. 0.037 min

Lab File: VY018508.D

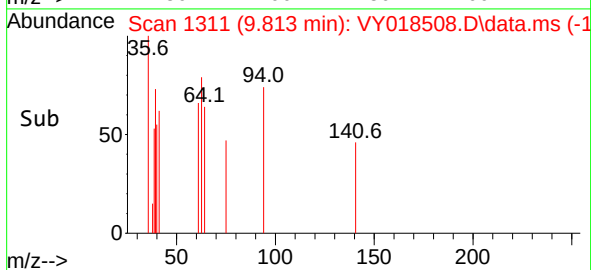
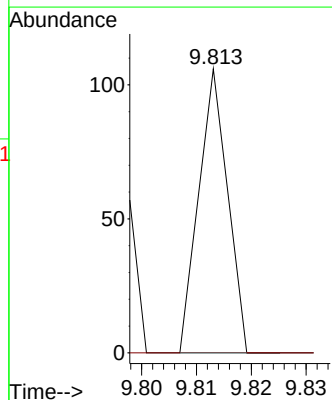
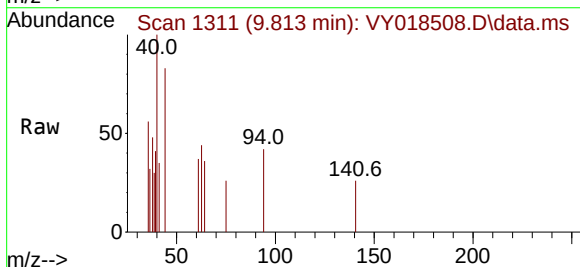
Acq: 06 Jun 2024 16:26

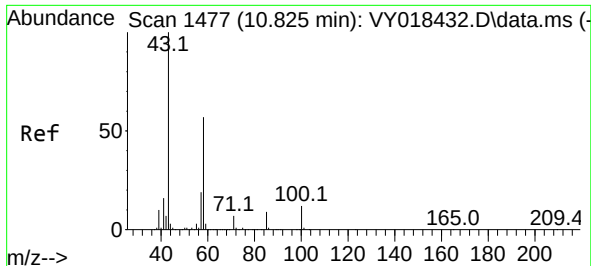
Tgt Ion: 63 Resp: 39

Ion Ratio Lower Upper

63 100

106 0.0 23.7 35.5#

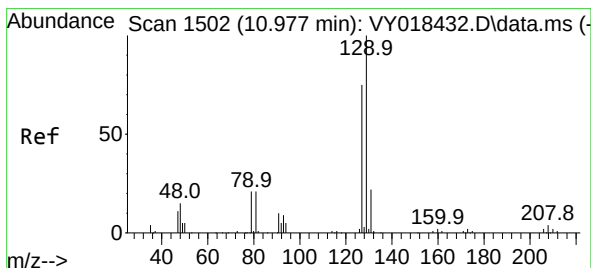
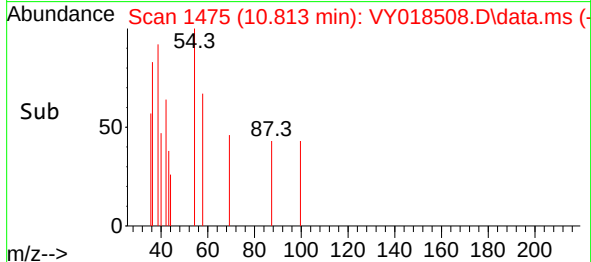
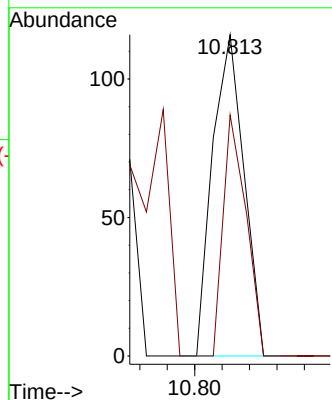
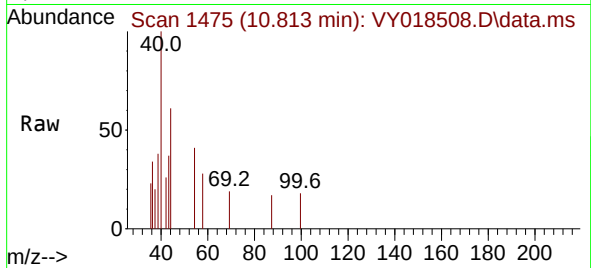




#59
2-Hexanone
Concen: 545.992 ug/l
RT: 10.813 min Scan# 1475
Delta R.T. -0.012 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

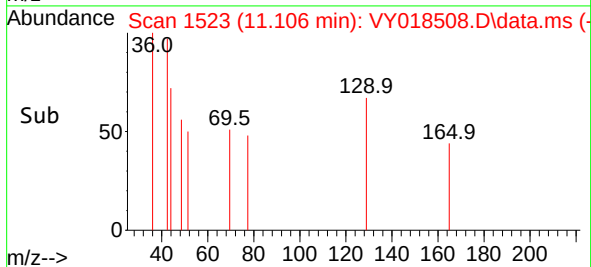
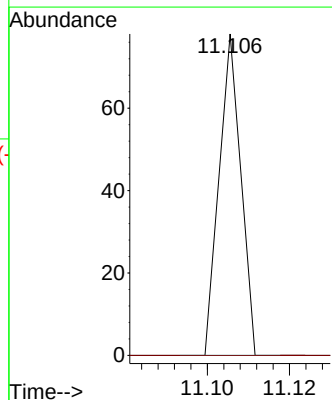
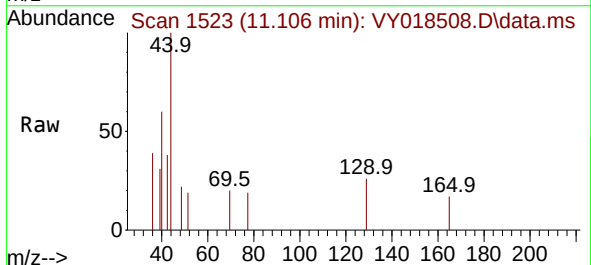
Instrument :
MSVOA_Y
ClientSampleId :
B-02

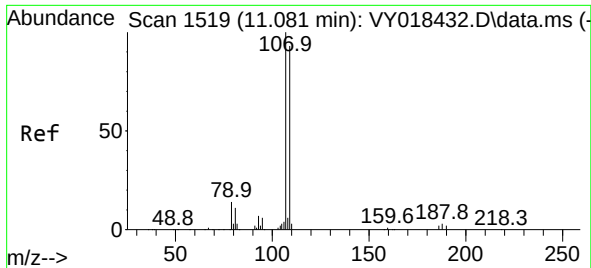
Tgt Ion: 43 Resp: 92
Ion Ratio Lower Upper
43 100
58 54.3 31.4 94.0



#60
Dibromochloromethane
Concen: 92.381 ug/l
RT: 11.106 min Scan# 1523
Delta R.T. 0.128 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

Tgt Ion: 129 Resp: 29
Ion Ratio Lower Upper
129 100
127 0.0 39.0 117.0#

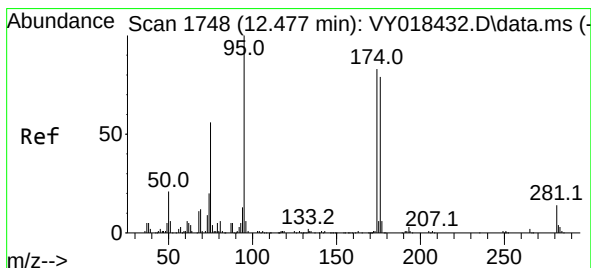
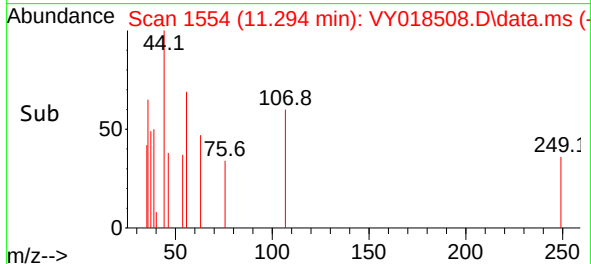
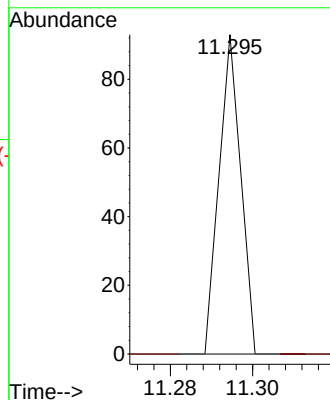
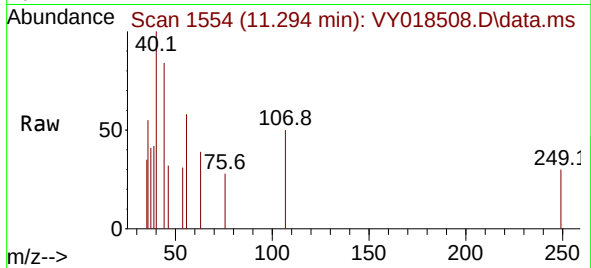




#61
1,2-Dibromoethane
Concen: 140.517 ug/l
RT: 11.294 min Scan# 11
Delta R.T. 0.213 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

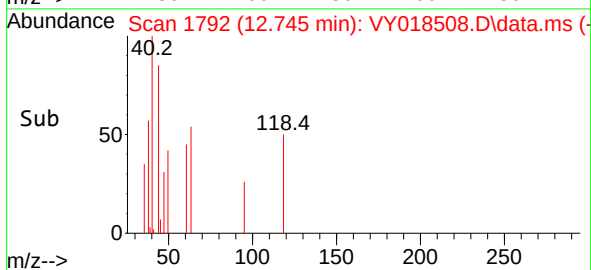
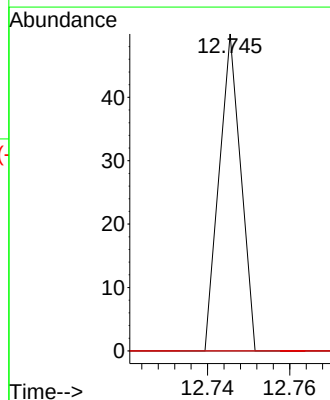
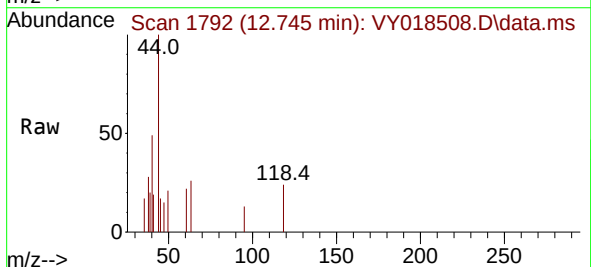
Instrument :
MSVOA_Y
ClientSampleId :
B-02

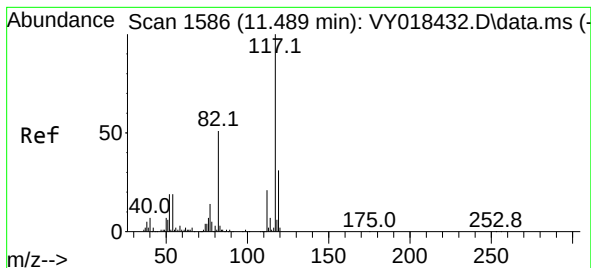
Tgt Ion:107 Resp: 34
Ion Ratio Lower Upper
107 100
109 0.0 75.9 113.9#



#62
4-Bromofluorobenzene
Concen: 44.077 ug/l
RT: 12.745 min Scan# 1792
Delta R.T. 0.268 min
Lab File: VY018508.D
Acq: 06 Jun 2024 16:26

Tgt Ion: 95 Resp: 18
Ion Ratio Lower Upper
95 100
174 0.0 0.0 175.6
176 0.0 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.703 min Scan# 1

Delta R.T. 0.213 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

B-02

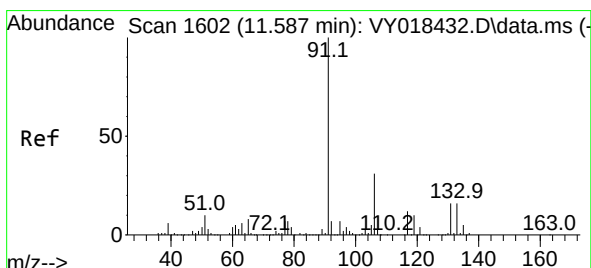
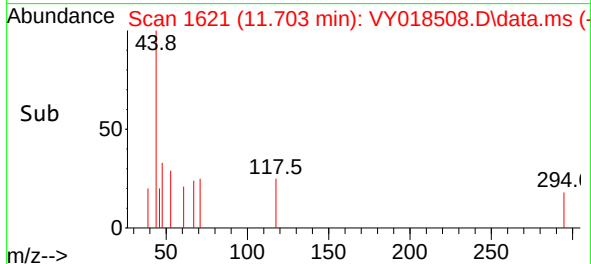
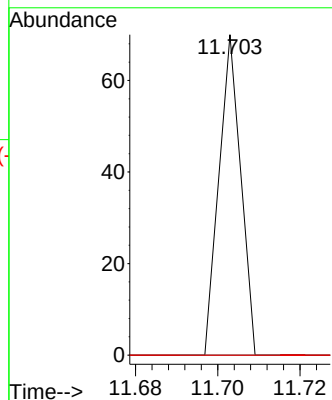
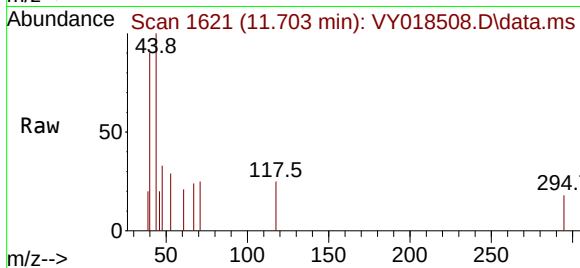
Tgt Ion:117 Resp: 26

Ion Ratio Lower Upper

117 100

82 0.0 42.4 63.6#

119 0.0 25.9 38.9#



#67

Ethyl Benzene

Concen: 24.637 ug/l

RT: 11.313 min Scan# 1557

Delta R.T. -0.274 min

Lab File: VY018508.D

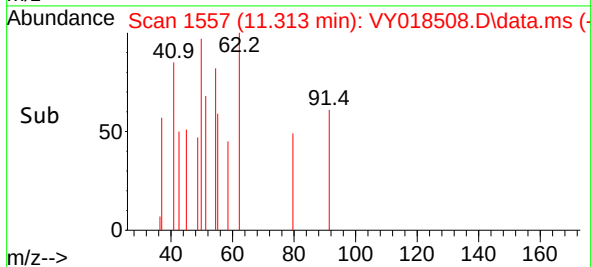
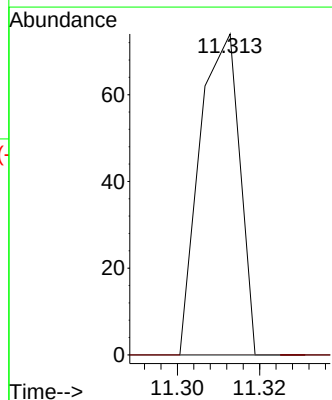
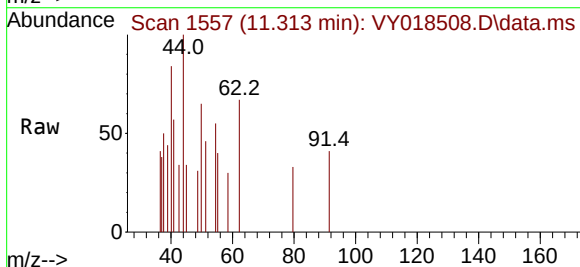
Acq: 06 Jun 2024 16:26

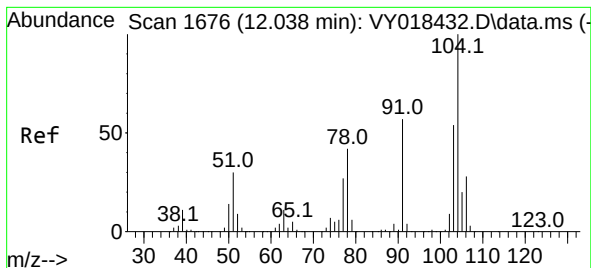
Tgt Ion: 91 Resp: 50

Ion Ratio Lower Upper

91 100

106 0.0 24.5 36.7#





#70

Styrene

Concen: 49.088 ug/l

RT: 12.044 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

B-02

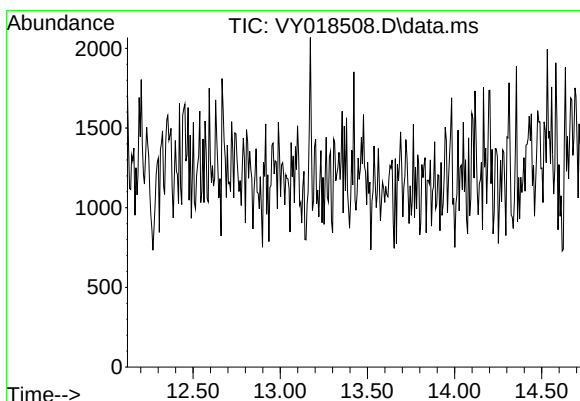
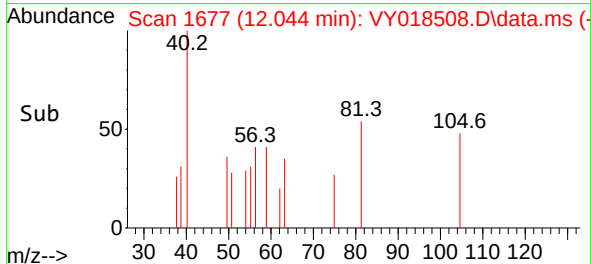
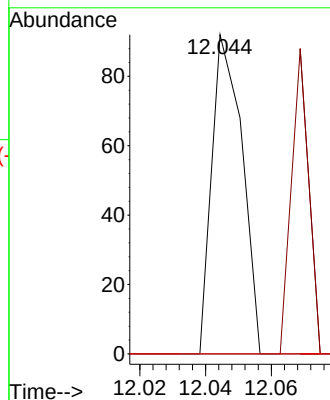
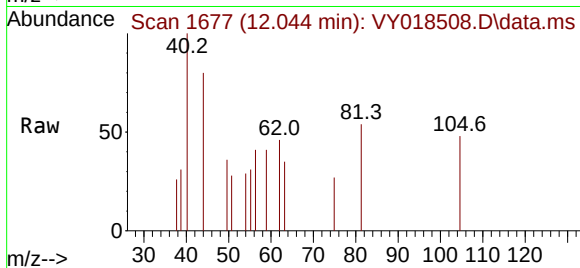
Tgt Ion:104 Resp: 59

Ion Ratio Lower Upper

104 100

78 0.0 37.0 55.4#

103 0.0 44.2 66.2#



#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 13.42 min

Lab File: VY018508.D

Acq: 06 Jun 2024 16:26

Tgt Ion: 152

Sig Exp Ratio

152 100

115 56.5

150 172.8

