

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY053025\
 Data File : VY022478.D
 Acq On : 30 May 2025 15:04
 Operator : SY/MD
 Sample : Q2151-01
 Misc : 6.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-04-0592025

Quant Time: May 31 02:28:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 28 10:34:06 2025
 Response via : Initial Calibration

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

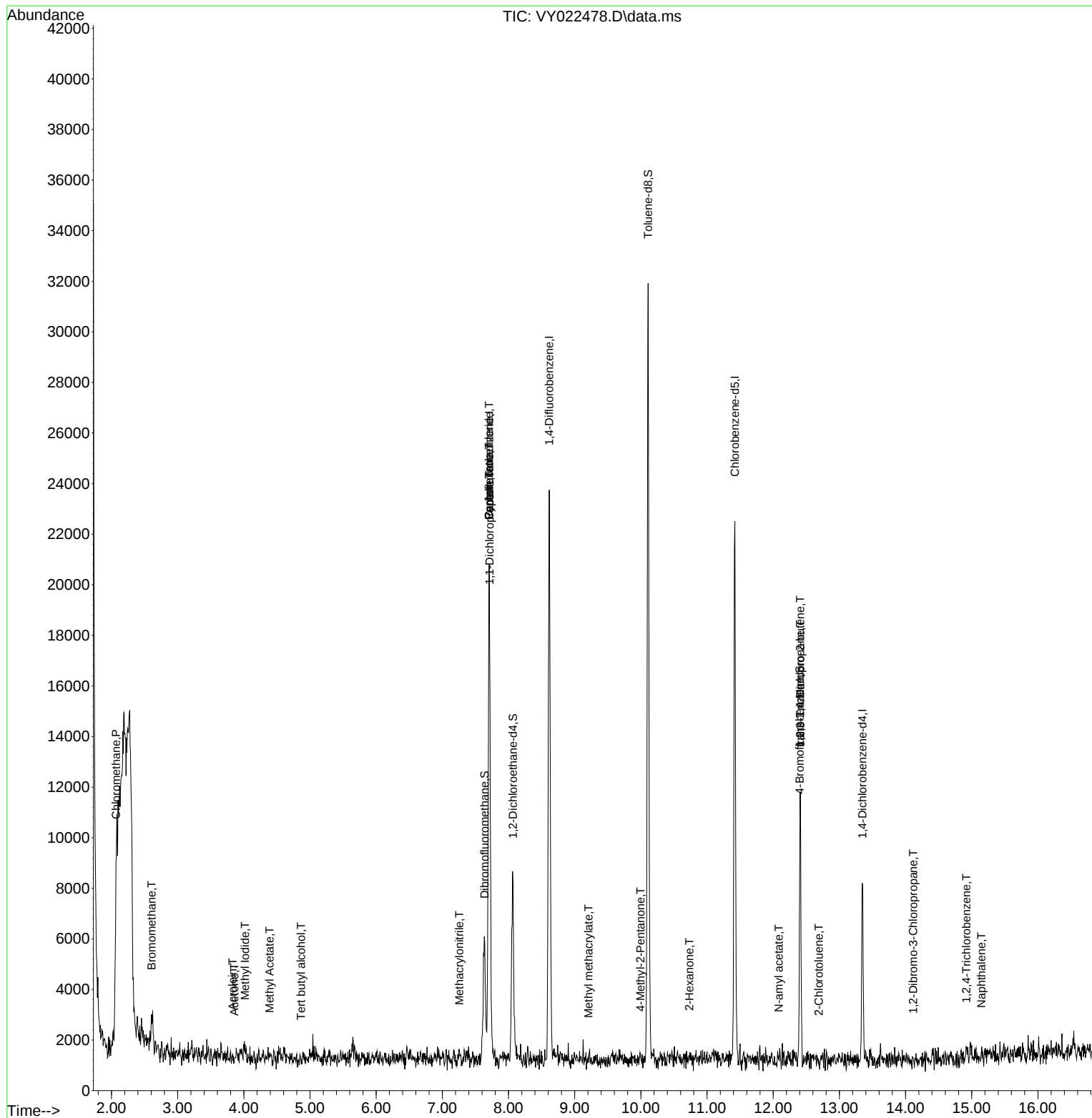
Internal Standards						
1) Pentafluorobenzene	7.707	168	13589	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	18298	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	10609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	1907	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	5574	38.943	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	77.880%		
35) Dibromofluoromethane	7.640	113	3365	31.402	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	62.800%		
50) Toluene-d8	10.109	98	20322	46.521	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	93.040%		
62) 4-Bromofluorobenzene	12.401	95	2996	22.673	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	45.340%		
Target Compounds						Qvalue
3) Chloromethane	2.068	50	939	2.944	ug/l	93
5) Bromomethane	2.604	94	719	2.042	ug/l #	68
10) Methyl Iodide	4.019	142	983	6.076	ug/l #	65
11) Tert butyl alcohol	4.866	59	23	2.280	ug/l #	70
13) Acrolein	3.830	56	26	1.720	ug/l #	14
16) Acetone	3.854	43	248	10.544	ug/l #	49
18) Methyl Acetate	4.391	43	126	1.430	ug/l #	48
31) Cyclohexane	7.707	56	424	1.540	ug/l #	52
36) 1,1-Dichloropropene	7.713	75	1426	8.386	ug/l #	44
38) Carbon Tetrachloride	7.707	117	1368	7.723	ug/l #	12
41) Methacrylonitrile	7.256	41	123	2.804	ug/l #	1
48) Methyl methacrylate	9.207	41	141	1.924	ug/l #	10
51) 4-Methyl-2-Pentanone	9.993	43	105	1.348	ug/l #	66
59) 2-Hexanone	10.731	43	177	3.466	ug/l #	40
74) N-amyl acetate	12.084	43	52	1.416	ug/l #	44
76) 1,2,3-Trichloropropane	12.407	75	1663	87.060	ug/l #	100
79) 2-Chlorotoluene	12.688	91	113	1.159	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.407	75	1663	196.883	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.114	75	18	4.926	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.919	180	97	3.223	ug/l #	72
95) Naphthalene	15.145	128	285	5.123	ug/l #	70

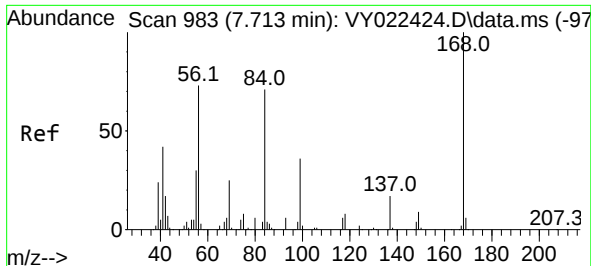
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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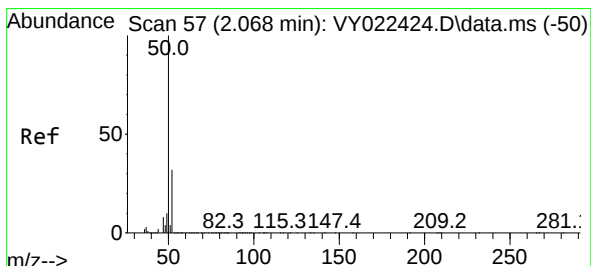
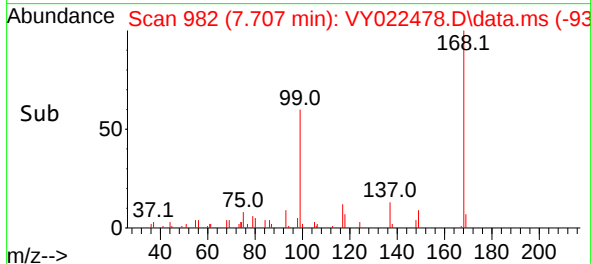
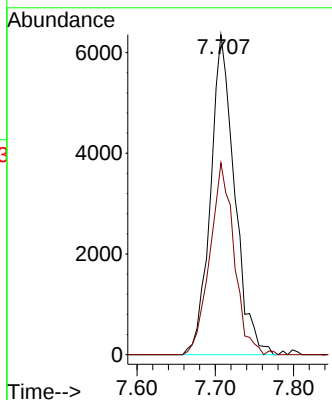
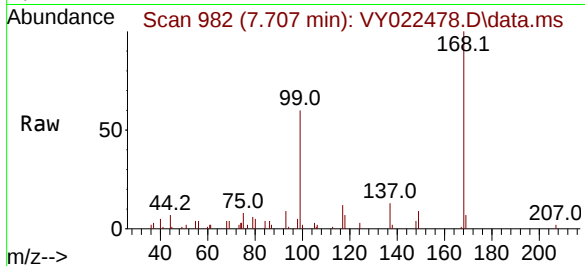




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

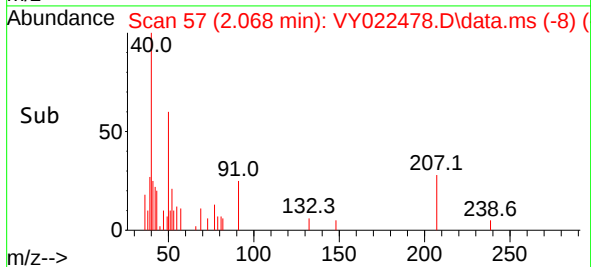
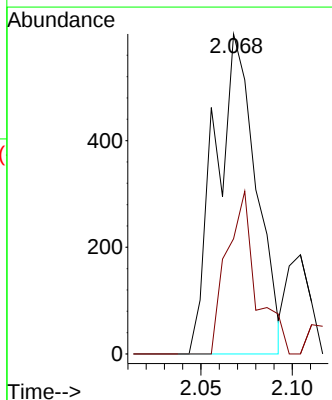
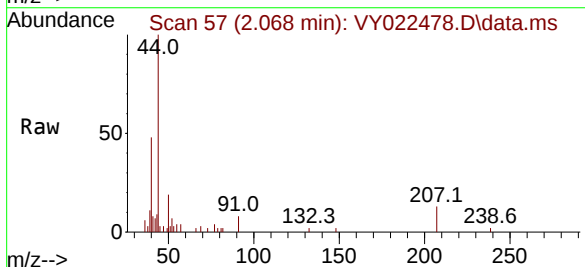
Instrument :
MSVOA_Y
ClientSampleId :
TR-04-0592025

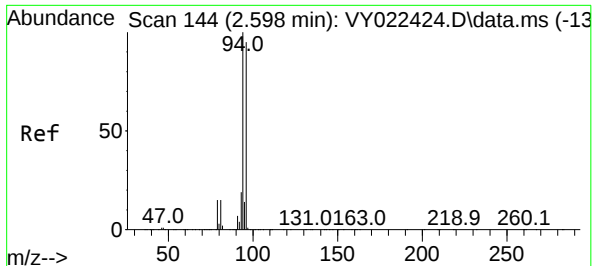
Tgt Ion:168 Resp: 13589
Ion Ratio Lower Upper
168 100
99 59.9 44.7 67.1



#3
Chloromethane
Concen: 2.944 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.000 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

Tgt Ion: 50 Resp: 939
Ion Ratio Lower Upper
50 100
52 36.0 25.5 38.3

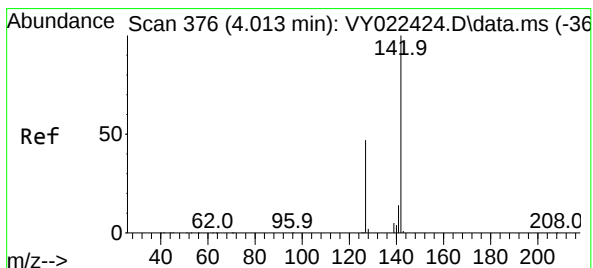
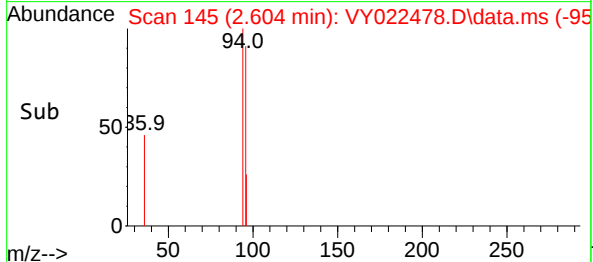
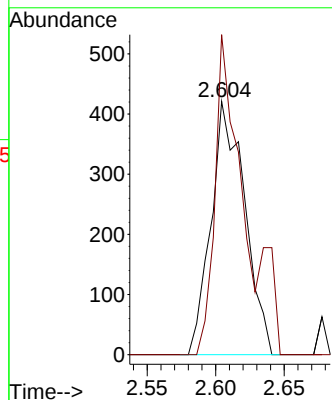
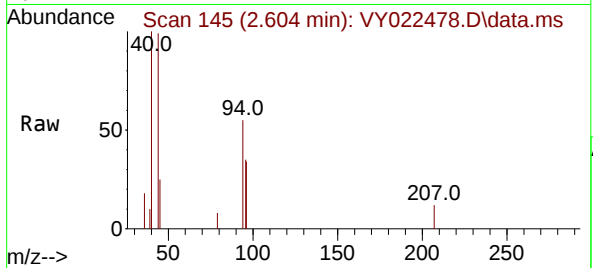




#5
Bromomethane
Concen: 2.042 ug/l
RT: 2.604 min Scan# 144
Delta R.T. 0.006 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

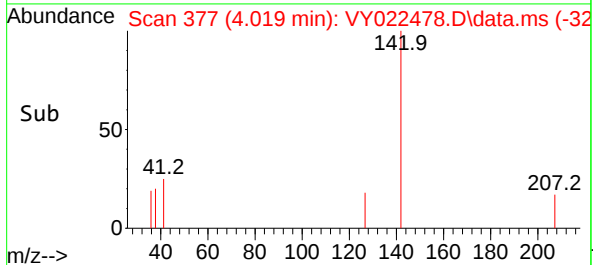
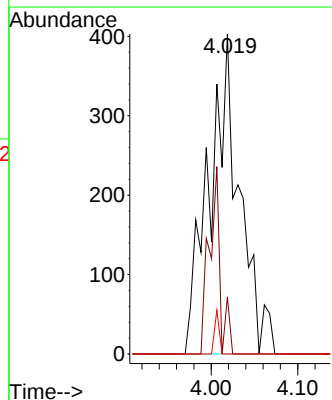
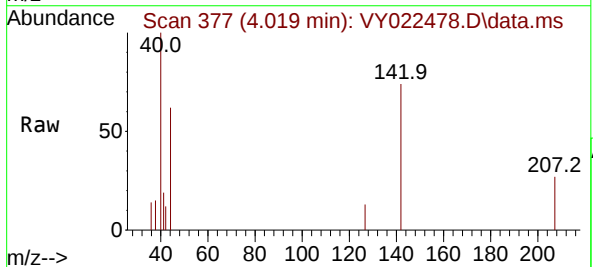
Instrument :
MSVOA_Y
ClientSampleId :
TR-04-0592025

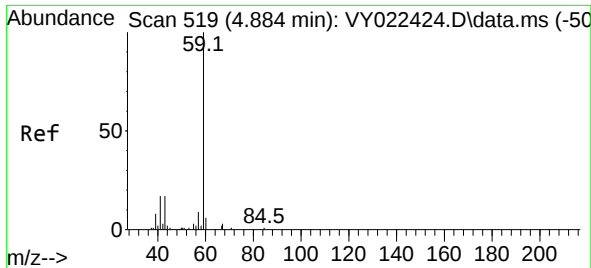
Tgt Ion: 94 Resp: 719
Ion Ratio Lower Upper
94 100
96 126.4 76.0 114.0#



#10
Methyl Iodide
Concen: 6.076 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.006 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

Tgt Ion: 142 Resp: 983
Ion Ratio Lower Upper
142 100
127 21.4 36.2 54.4#
141 2.0 11.6 17.4#

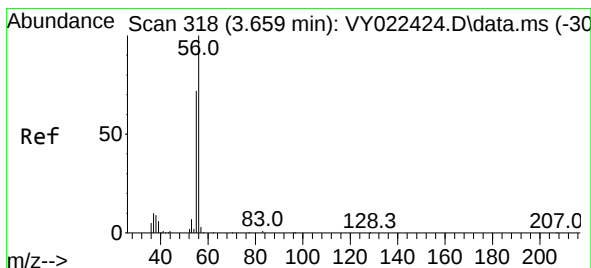
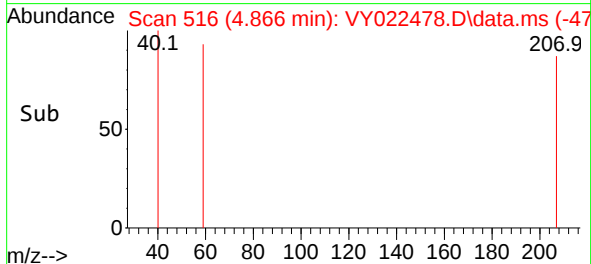
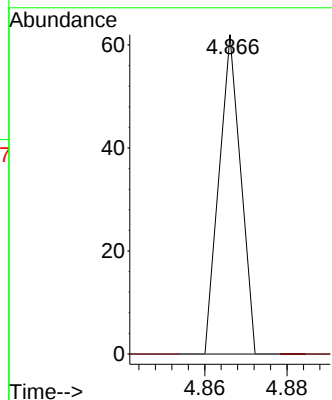
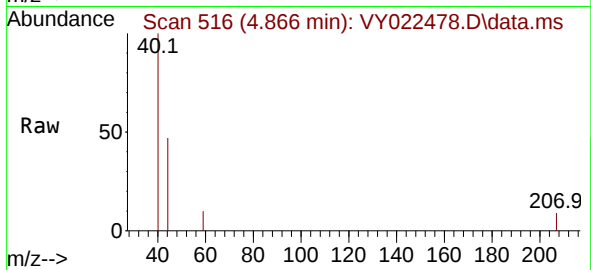




#11
Tert butyl alcohol
Concen: 2.280 ug/l
RT: 4.866 min Scan# 519
Delta R.T. -0.018 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

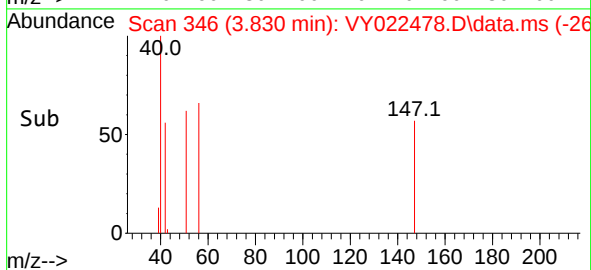
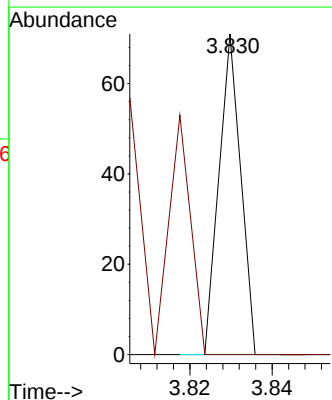
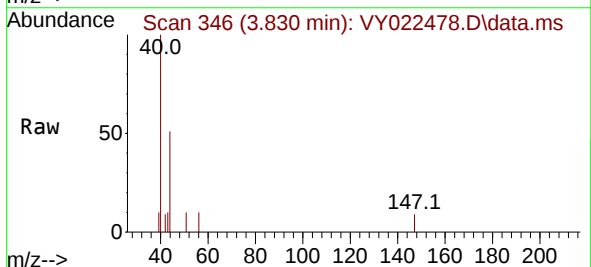
Instrument :
MSVOA_Y
ClientSampleId :
TR-04-0592025

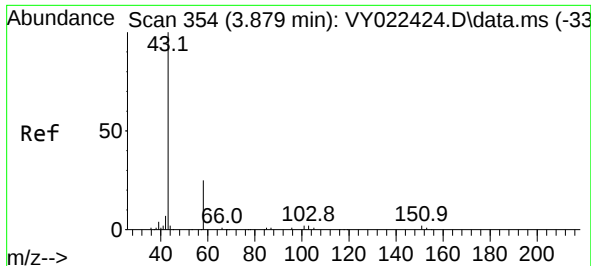
Tgt Ion: 59 Resp: 23
Ion Ratio Lower Upper
59 100
57 0.0 9.1 13.7#



#13
Acrolein
Concen: 1.720 ug/l
RT: 3.830 min Scan# 346
Delta R.T. 0.171 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

Tgt Ion: 56 Resp: 26
Ion Ratio Lower Upper
56 100
55 0.0 56.5 84.7#

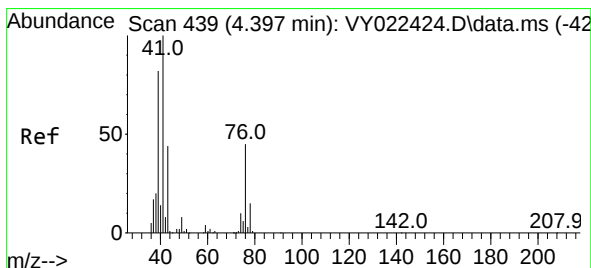
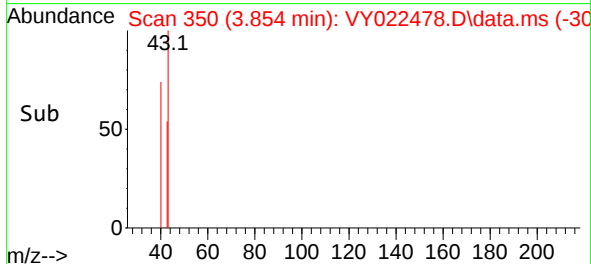
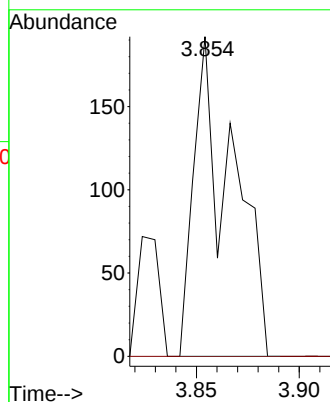
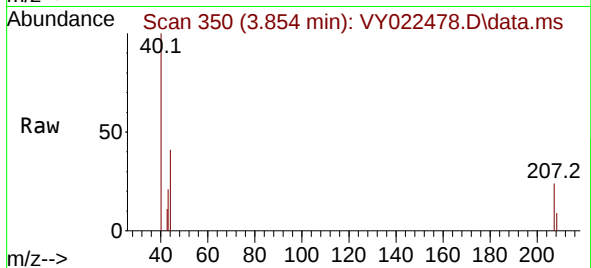




#16
Acetone
Concen: 10.544 ug/l
RT: 3.854 min Scan# 31
Delta R.T. -0.024 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

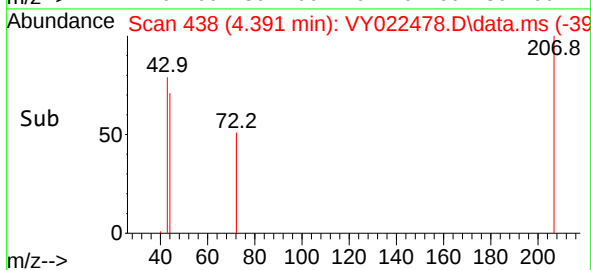
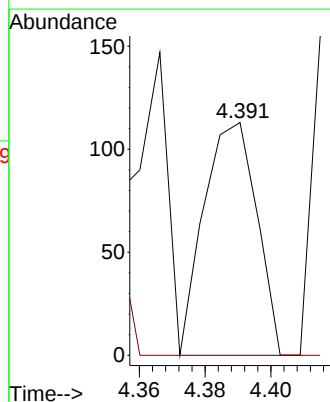
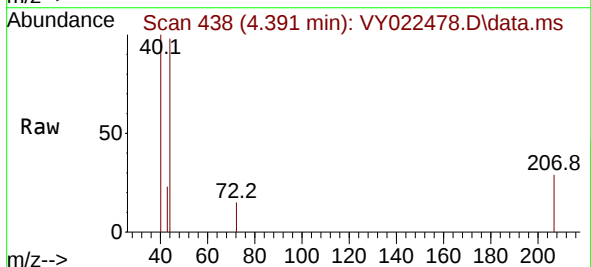
Instrument :
MSVOA_Y
ClientSampleId :
TR-04-0592025

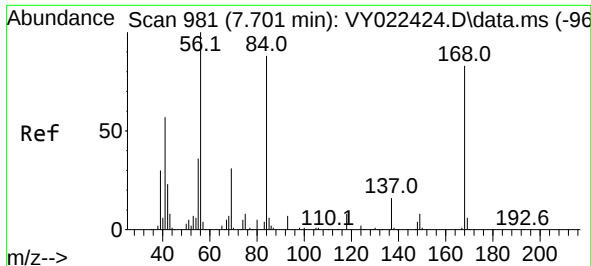
Tgt Ion: 43 Resp: 248
Ion Ratio Lower Upper
43 100
58 0.0 20.6 30.8#



#18
Methyl Acetate
Concen: 1.430 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.006 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

Tgt Ion: 43 Resp: 126
Ion Ratio Lower Upper
43 100
74 0.0 21.2 31.8#

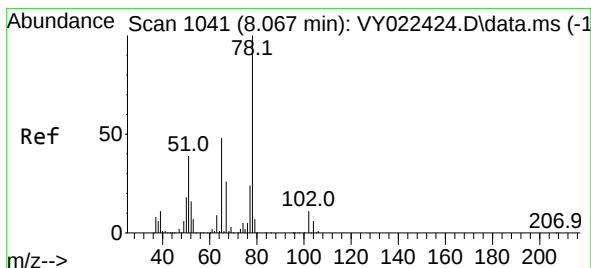
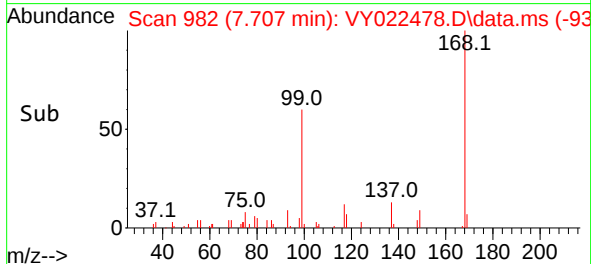
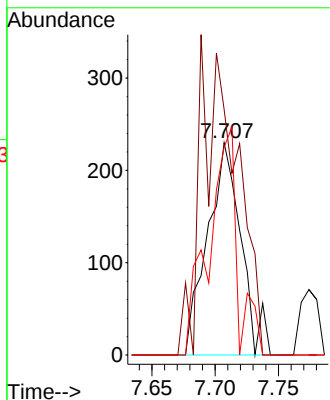
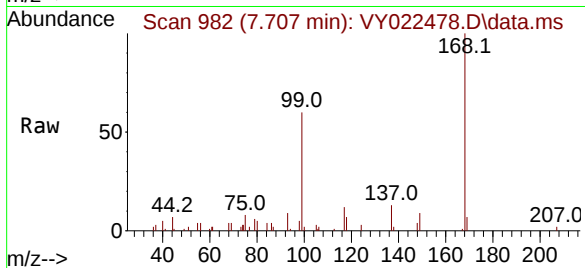




#31
Cyclohexane
Concen: 1.540 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

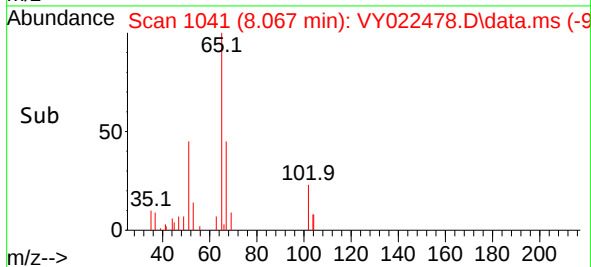
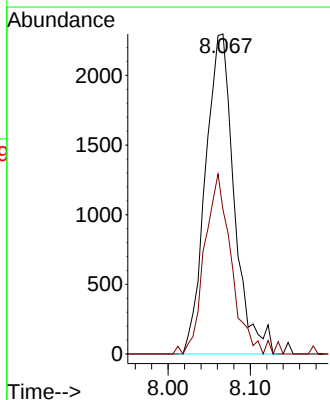
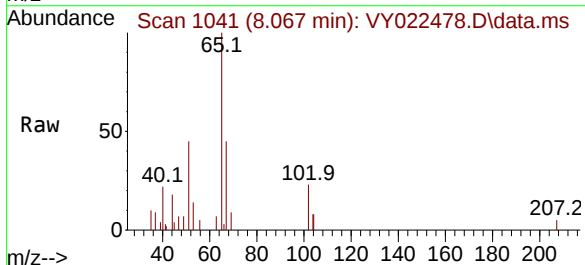
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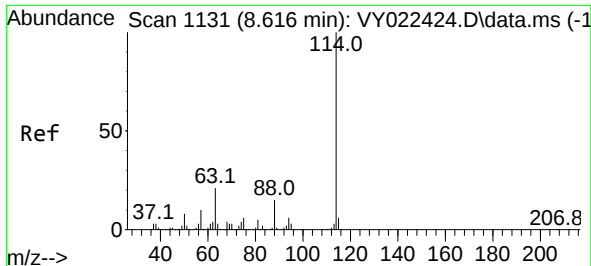
Tgt Ion: 56 Resp: 424
Ion Ratio Lower Upper
56 100
69 115.7 24.6 36.8#
84 97.8 70.4 105.6



#33
1,2-Dichloroethane-d4
Concen: 38.943 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

Tgt Ion: 65 Resp: 5574
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022478.D

Acq: 30 May 2025 15:04

Instrument :

MSVOA_Y

ClientSampleId :

TR-04-0592025

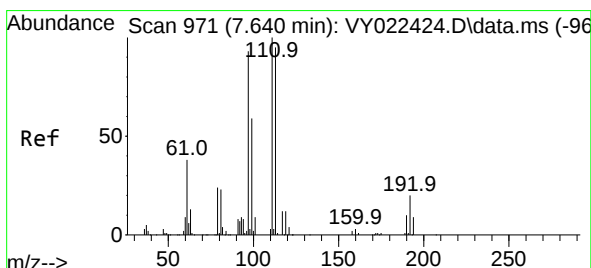
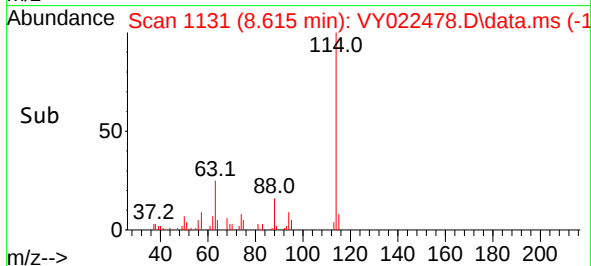
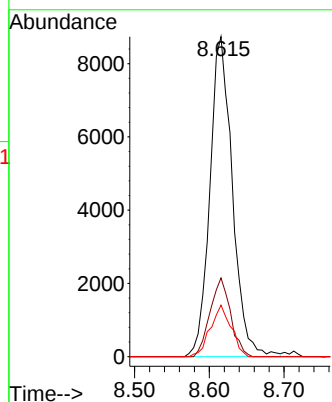
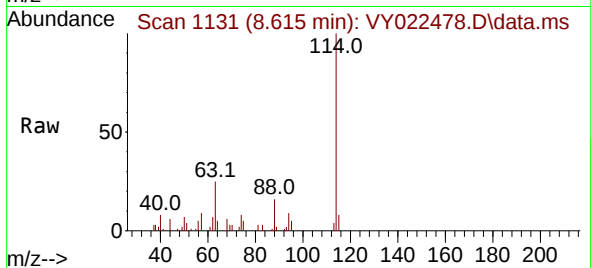
Tgt Ion:114 Resp: 18298

Ion Ratio Lower Upper

114 100

63 24.6 0.0 42.6

88 16.1 0.0 29.4



#35

Dibromofluoromethane

Concen: 31.402 ug/l

RT: 7.640 min Scan# 971

Delta R.T. -0.000 min

Lab File: VY022478.D

Acq: 30 May 2025 15:04

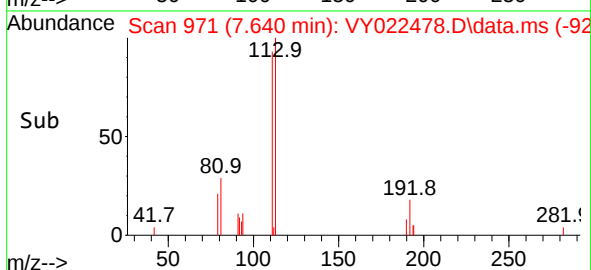
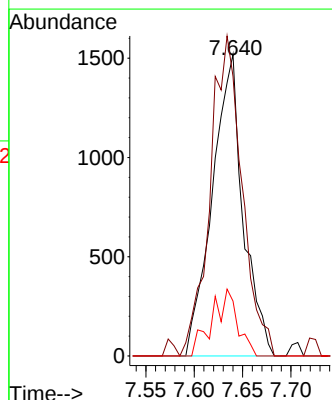
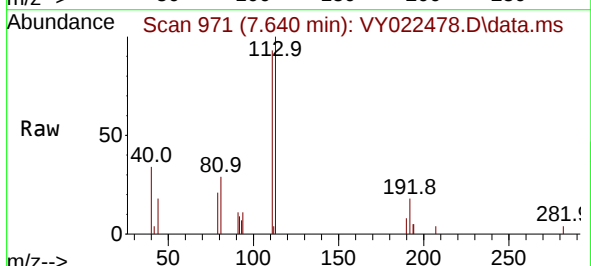
Tgt Ion:113 Resp: 3365

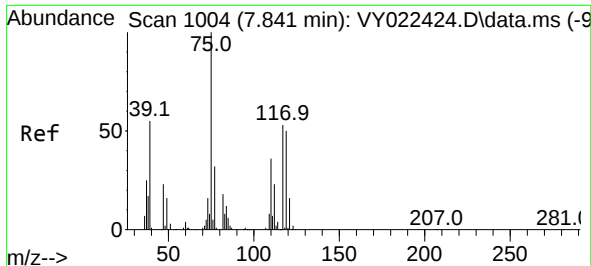
Ion Ratio Lower Upper

113 100

111 110.5 82.4 123.6

192 18.5 15.2 22.8





#36

1,1-Dichloropropene

Concen: 8.386 ug/l

RT: 7.713 min Scan# 981

Delta R.T. -0.128 min

Lab File: VY022478.D

Acq: 30 May 2025 15:04

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TR-04-0592025

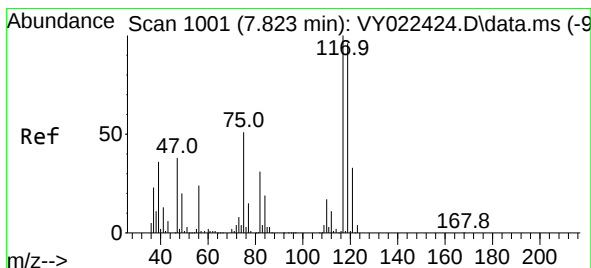
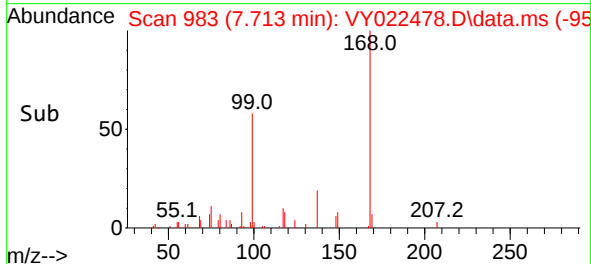
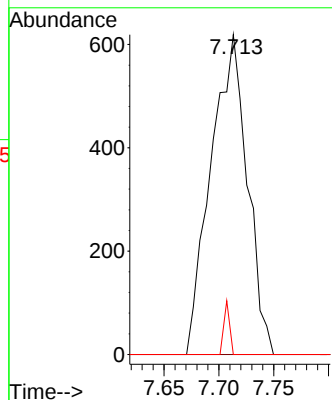
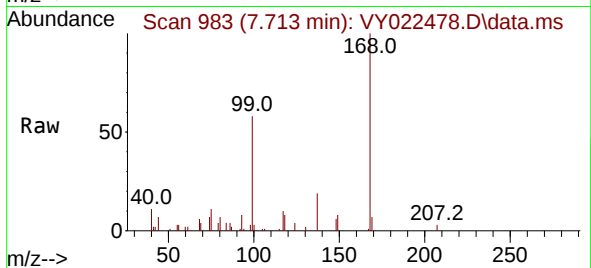
Tgt Ion: 75 Resp: 1426

Ion Ratio Lower Upper

75 100

110 0.0 17.1 51.2#

77 2.7 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 7.723 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.116 min

Lab File: VY022478.D

Acq: 30 May 2025 15:04

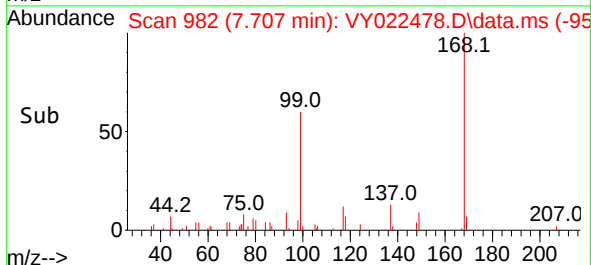
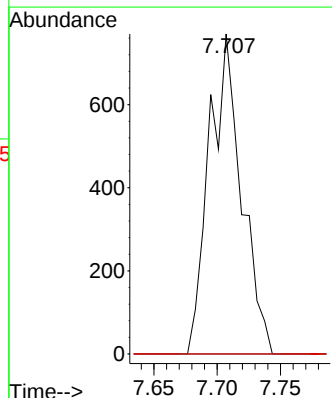
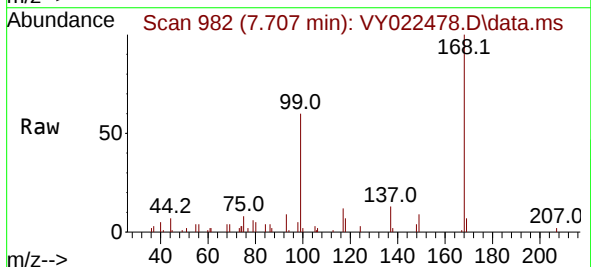
Tgt Ion: 117 Resp: 1368

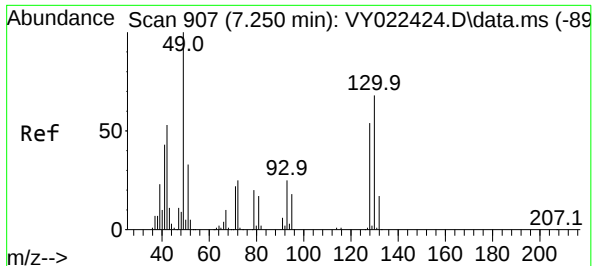
Ion Ratio Lower Upper

117 100

119 0.0 76.3 114.5#

121 0.0 26.1 39.1#

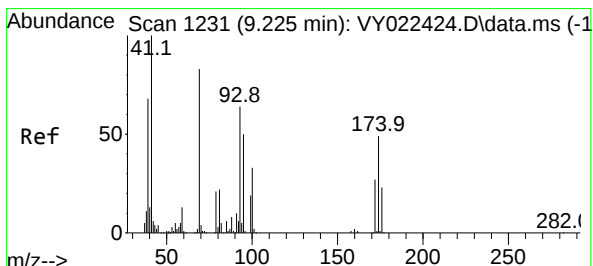
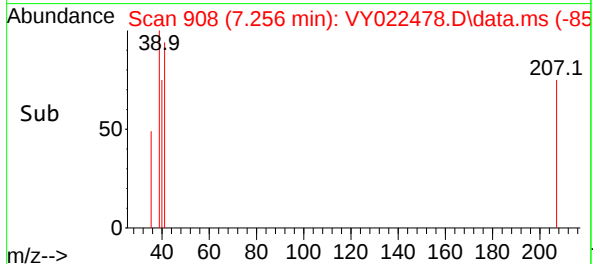
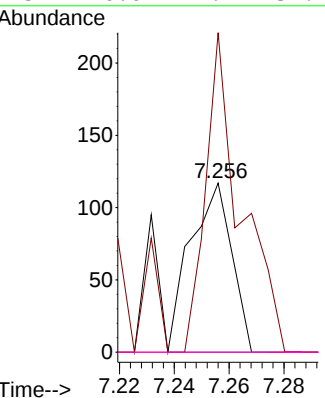
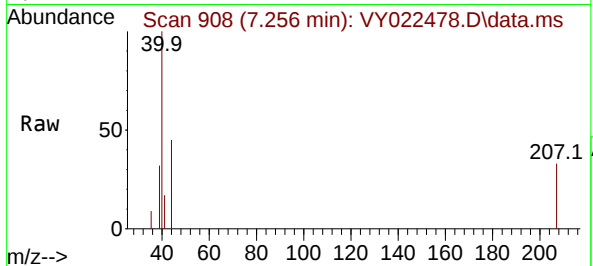




#41
Methacrylonitrile
Concen: 2.804 ug/l
RT: 7.256 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

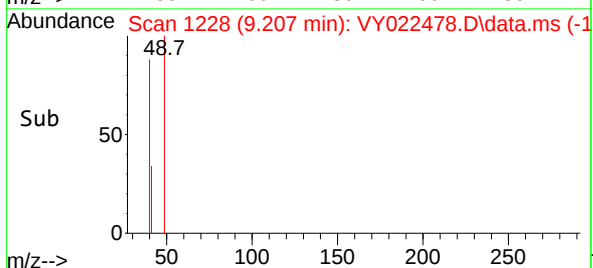
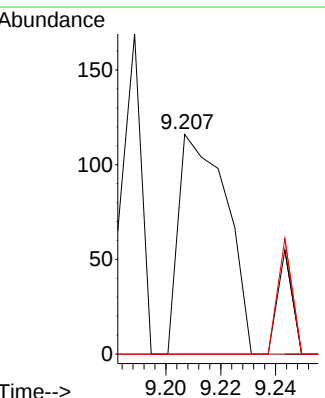
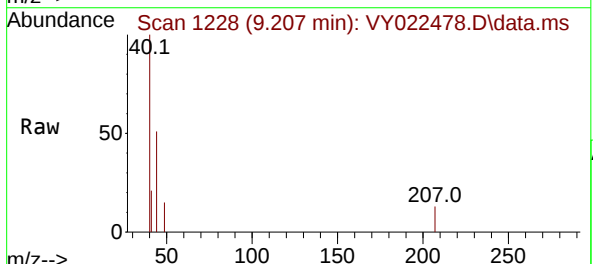
Instrument :
MSVOA_Y
ClientSampleId :
TR-04-0592025

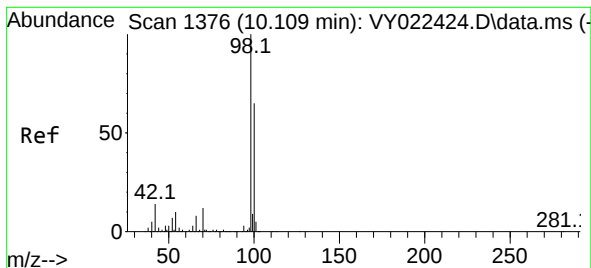
Tgt Ion: 41	Resp:	123
Ion	Ratio	Lower Upper
41	100	
39	160.2	40.4 60.6#
67	0.0	53.0 79.4#
52	0.0	22.7 34.1#



#48
Methyl methacrylate
Concen: 1.924 ug/l
RT: 9.207 min Scan# 1228
Delta R.T. -0.018 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

Tgt Ion: 41	Resp:	141
Ion	Ratio	Lower Upper
41	100	
69	0.0	70.3 105.5#
39	0.0	55.4 83.0#

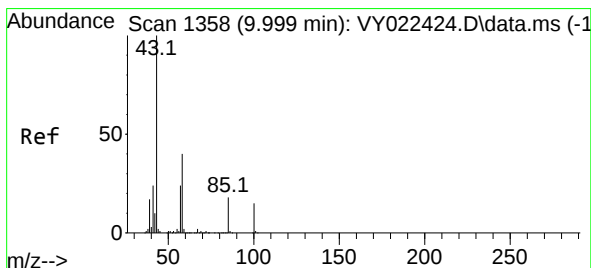
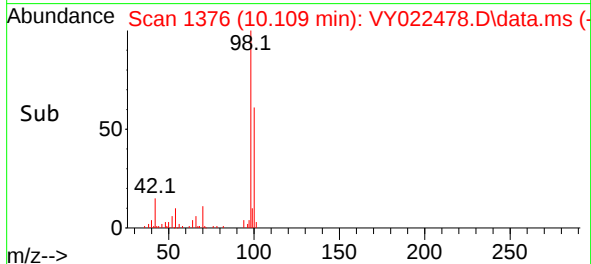
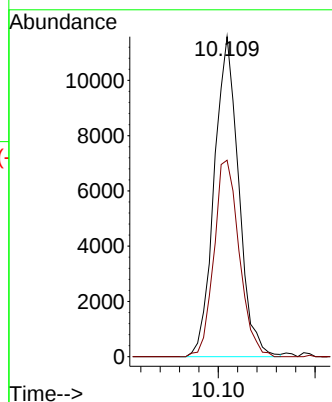
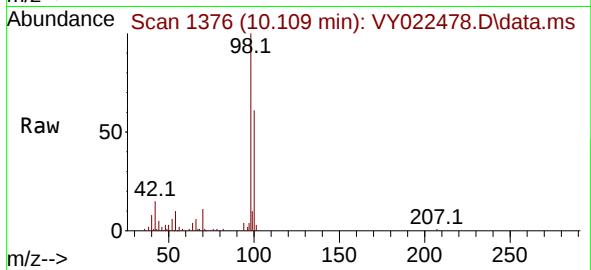




#50
Toluene-d8
Concen: 46.521 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

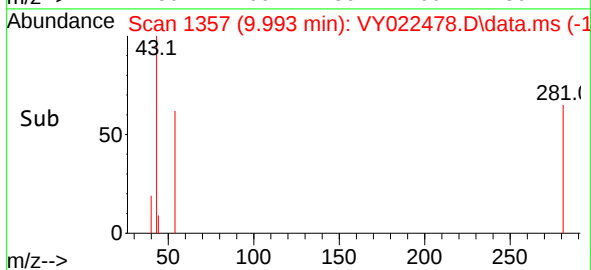
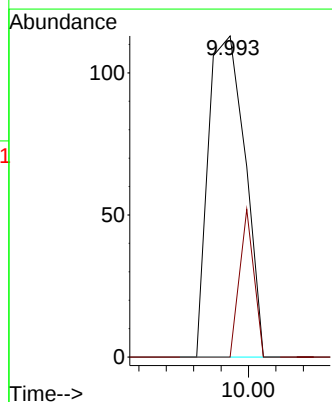
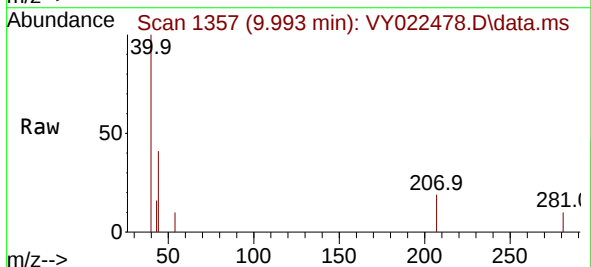
Instrument :
MSVOA_Y
ClientSampleId :
TR-04-0592025

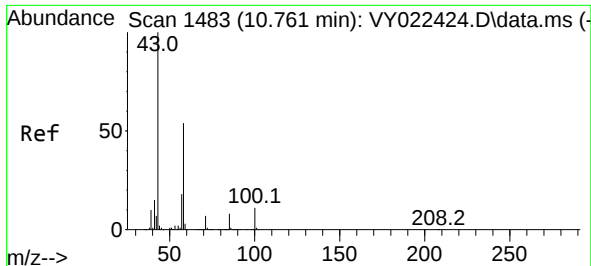
Tgt Ion: 98 Resp: 20322
Ion Ratio Lower Upper
98 100
100 63.3 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 1.348 ug/l
RT: 9.993 min Scan# 1357
Delta R.T. -0.006 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

Tgt Ion: 43 Resp: 105
Ion Ratio Lower Upper
43 100
58 18.1 31.2 46.8#





#59

2-Hexanone

Concen: 3.466 ug/l

RT: 10.731 min Scan# 1483

Delta R.T. -0.031 min

Lab File: VY022478.D

Acq: 30 May 2025 15:04

Instrument :

MSVOA_Y

ClientSampleId :

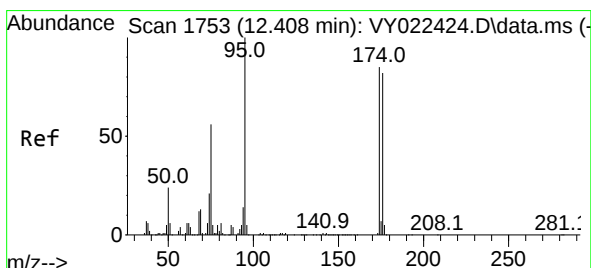
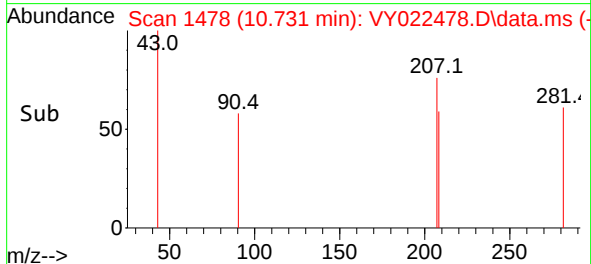
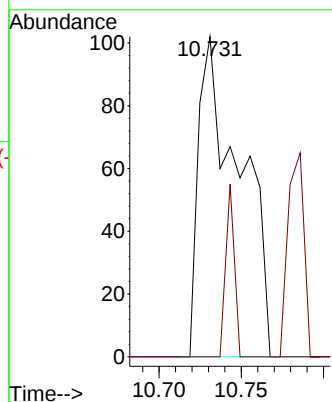
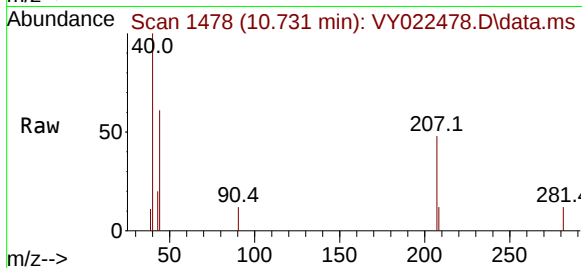
TR-04-0592025

Tgt Ion: 43 Resp: 177

Ion Ratio Lower Upper

43 100

58 11.3 27.1 81.2#



#62

4-Bromofluorobenzene

Concen: 22.673 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022478.D

Acq: 30 May 2025 15:04

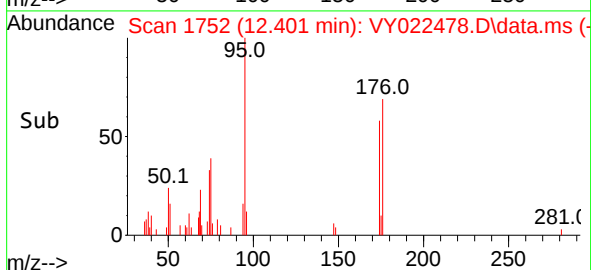
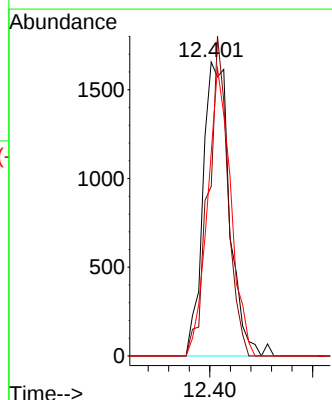
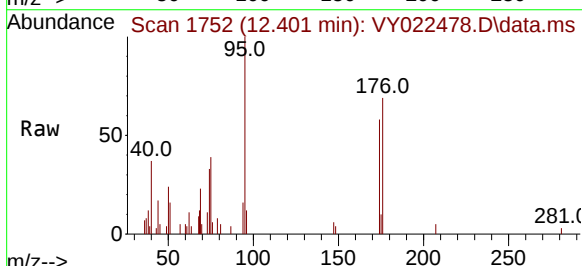
Tgt Ion: 95 Resp: 2996

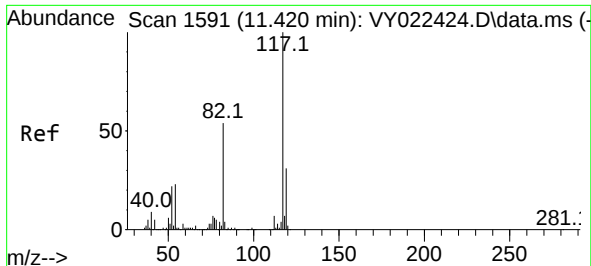
Ion Ratio Lower Upper

95 100

174 79.5 0.0 171.6

176 85.2 0.0 164.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022478.D

Acq: 30 May 2025 15:04

Instrument :

MSVOA_Y

ClientSampleId :

TR-04-0592025

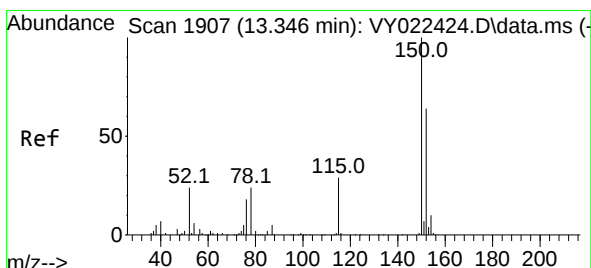
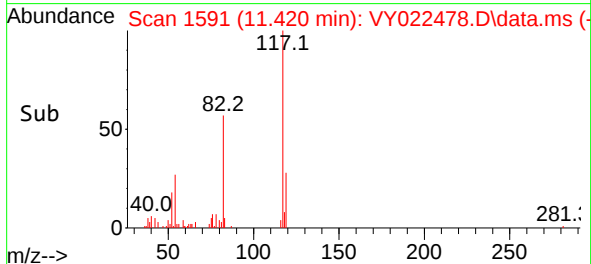
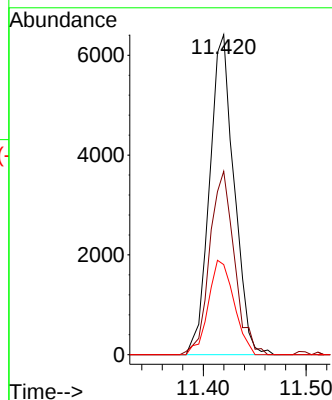
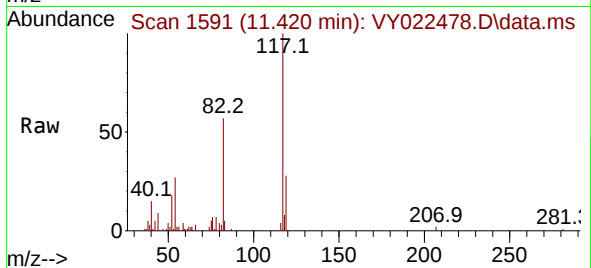
Tgt Ion:117 Resp: 10609

Ion Ratio Lower Upper

117 100

82 57.3 43.3 64.9

119 28.1 24.5 36.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022478.D

Acq: 30 May 2025 15:04

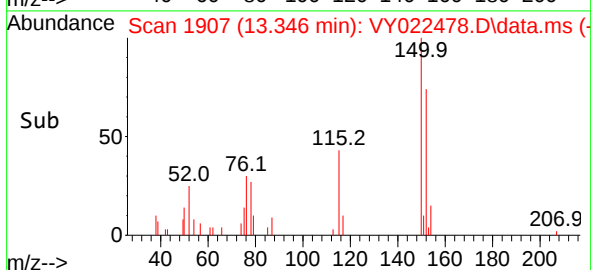
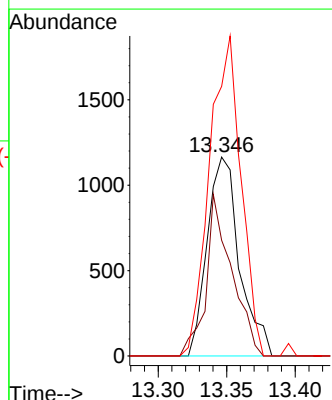
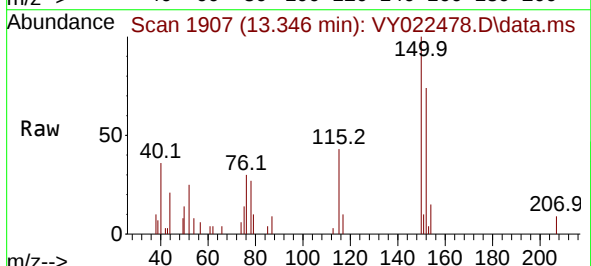
Tgt Ion:152 Resp: 1907

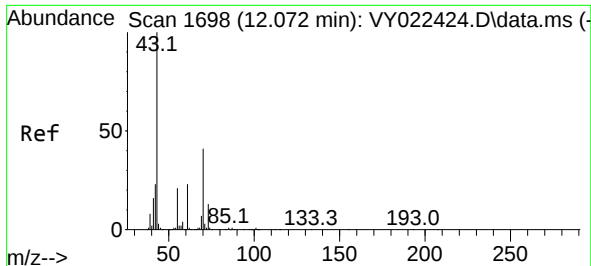
Ion Ratio Lower Upper

152 100

115 64.4 28.4 85.3

150 157.4 0.0 345.8

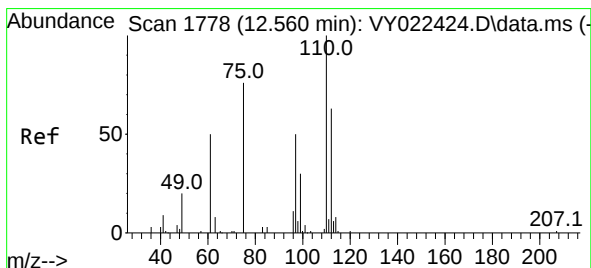
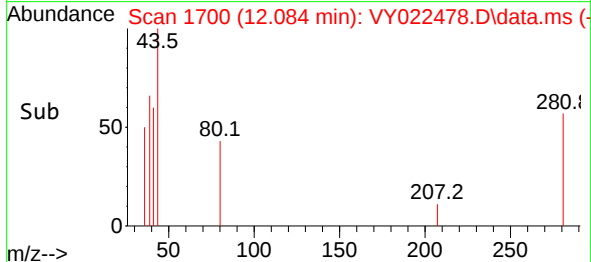
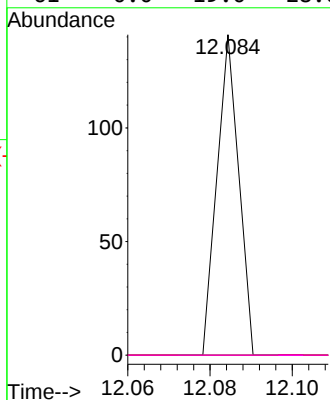
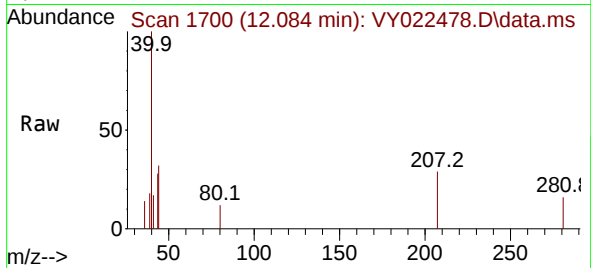




#74
N-amy1 acetate
Concen: 1.416 ug/l
RT: 12.084 min Scan# 1753
Delta R.T. 0.012 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

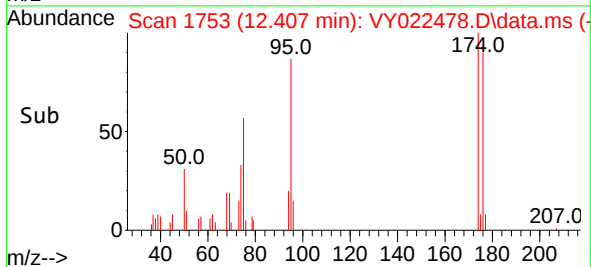
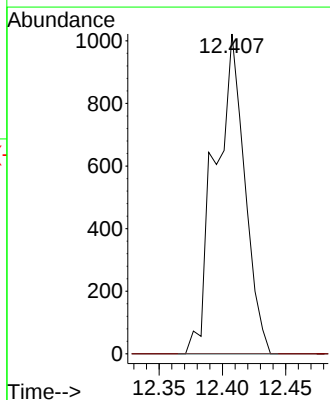
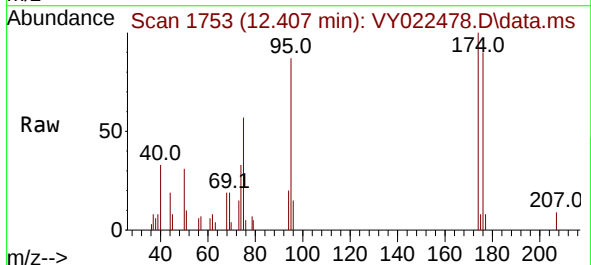
Instrument :
MSVOA_Y
ClientSampleId :
TR-04-0592025

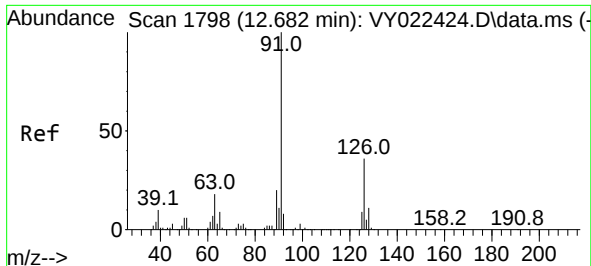
Tgt Ion: 43	Resp: 52
Ion Ratio	Lower Upper
43 100	
70 0.0	33.0 49.4#
55 0.0	17.5 26.3#
61 0.0	19.0 28.6#



#76
1,2,3-Trichloropropane
Concen: 87.060 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

Tgt Ion: 75	Resp: 1663
Ion Ratio	Lower Upper
75 100	
77 0.0	0.0 0.0

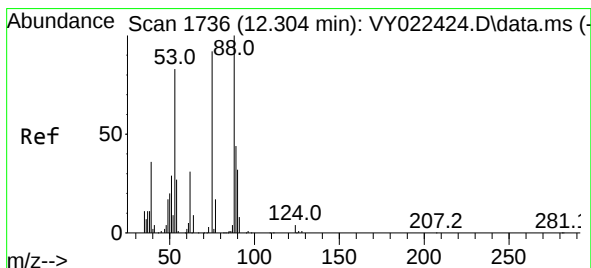
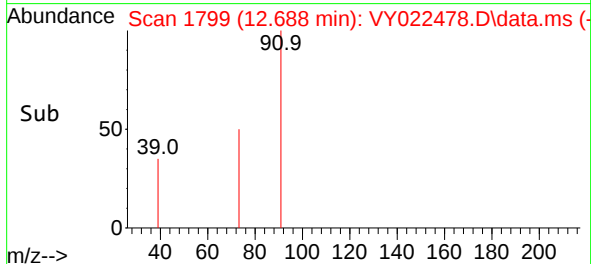
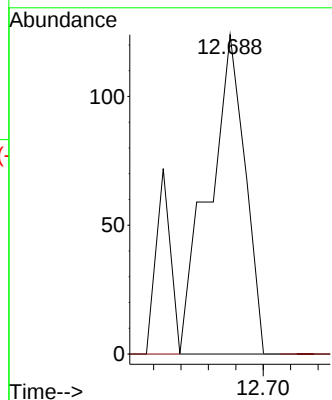
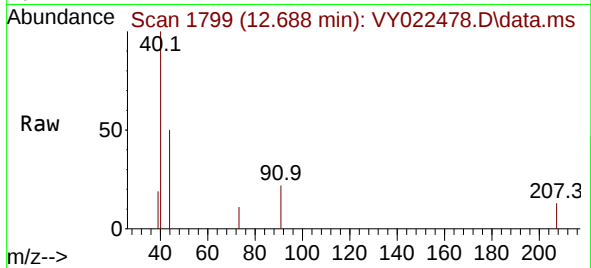




#79
2-Chlorotoluene
Concen: 1.159 ug/l
RT: 12.688 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

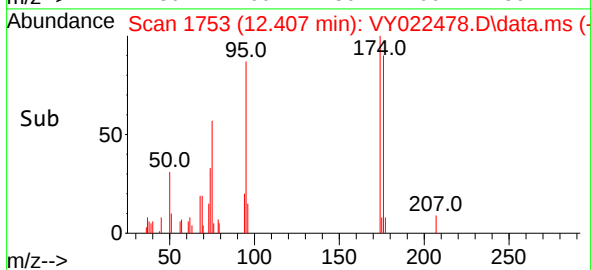
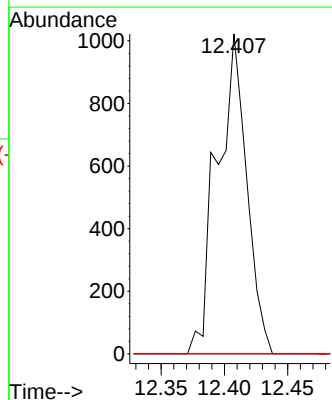
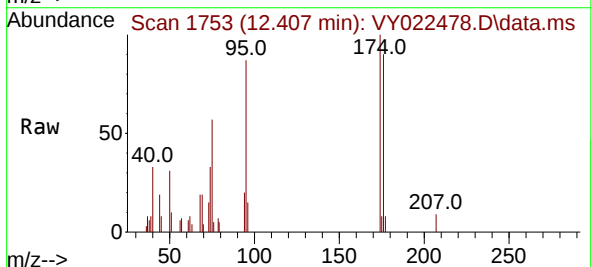
Instrument :
MSVOA_Y
ClientSampleId :
TR-04-0592025

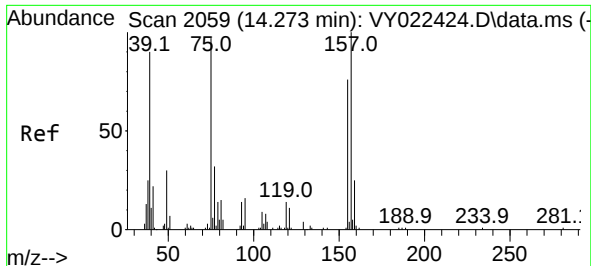
Tgt Ion: 91 Resp: 113
Ion Ratio Lower Upper
91 100
126 0.0 17.4 52.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 196.883 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

Tgt Ion: 75 Resp: 1663
Ion Ratio Lower Upper
75 100
53 0.0 75.1 112.7#
89 0.0 37.4 56.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.926 ug/l

RT: 14.114 min Scan# 2059

Delta R.T. -0.159 min

Lab File: VY022478.D

Acq: 30 May 2025 15:04

Instrument :

MSVOA_Y

ClientSampleId :

TR-04-0592025

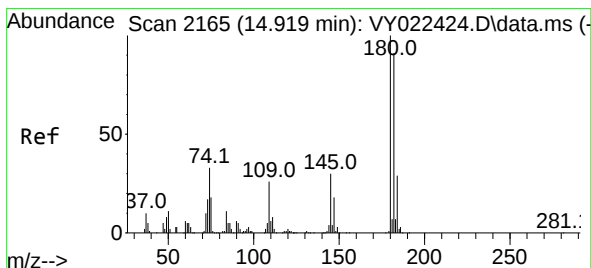
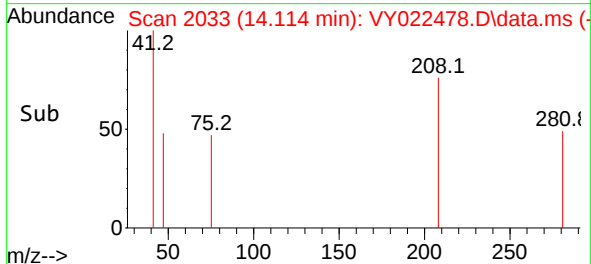
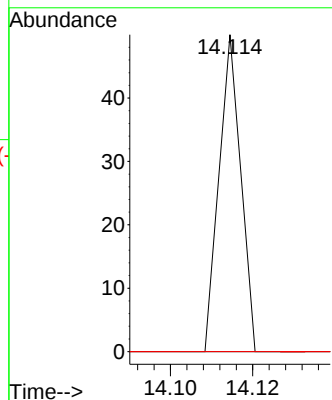
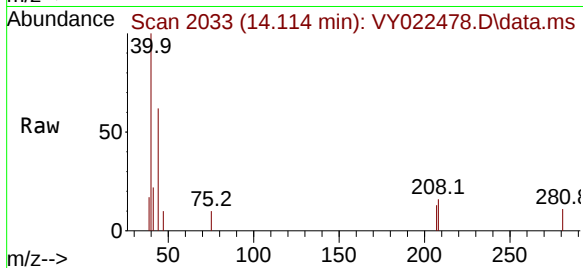
Tgt Ion: 75 Resp: 18

Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.8#

157 0.0 54.4 163.3#



#93

1,2,4-Trichlorobenzene

Concen: 3.223 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. -0.000 min

Lab File: VY022478.D

Acq: 30 May 2025 15:04

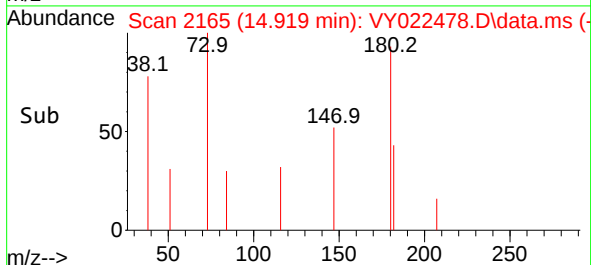
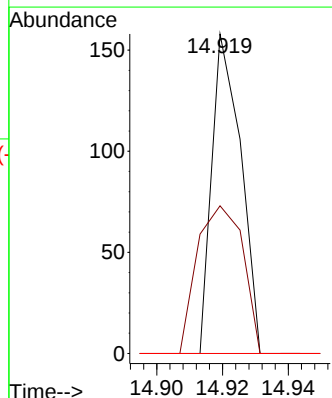
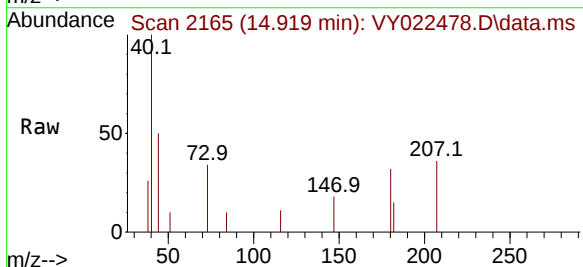
Tgt Ion:180 Resp: 97

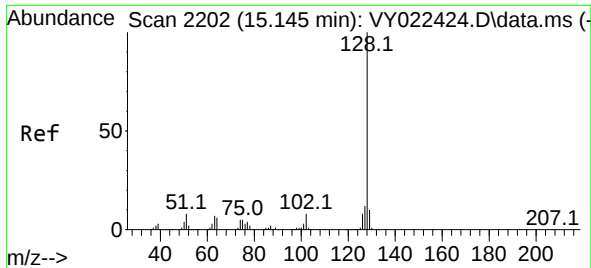
Ion Ratio Lower Upper

180 100

182 73.2 46.2 138.6

145 0.0 14.2 42.8#





#95
Naphthalene
Concen: 5.123 ug/l
RT: 15.145 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022478.D
Acq: 30 May 2025 15:04

Instrument :
MSVOA_Y
ClientSampleId :
TR-04-0592025

Tgt Ion:128 Resp: 285
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.5 12.7#

