

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061825\
 Data File : VY022737.D
 Acq On : 18 Jun 2025 14:54
 Operator : SY/MD
 Sample : Q2357-01
 Misc : 5.12g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-06-06182025

Quant Time: Jun 19 04:00:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 10 15:26:14 2025
 Response via : Initial Calibration

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

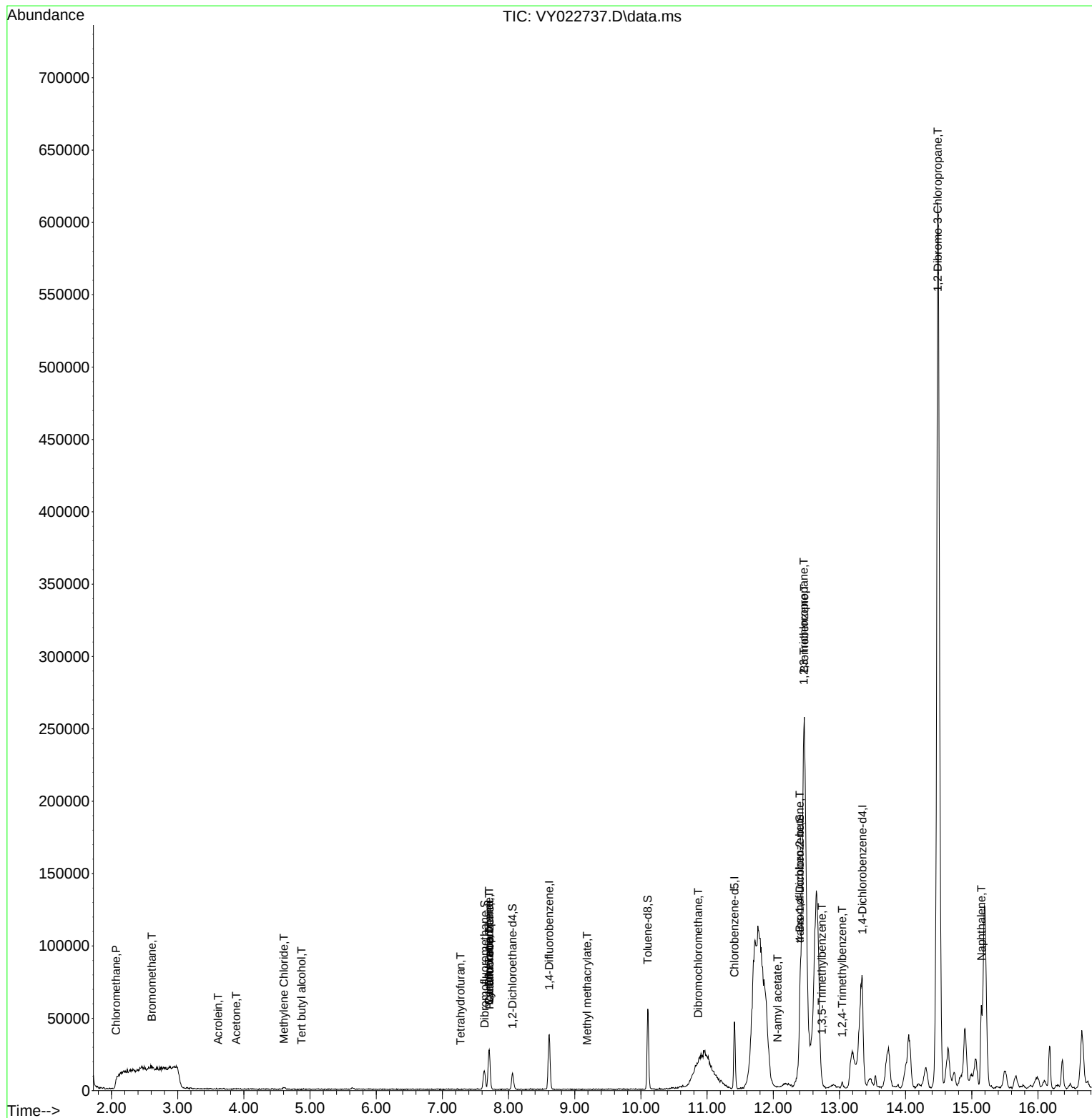
Internal Standards						
1) Pentafluorobenzene	7.713	168	19847	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	31619	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	22514	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	15214	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	7804	35.157	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	70.320%
35) Dibromofluoromethane	7.640	113	8620	45.674	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	91.340%
50) Toluene-d8	10.103	98	35685	46.795	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	93.600%
62) 4-Bromofluorobenzene	12.401	95	8288	36.477	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	72.960%
Target Compounds						Qvalue
3) Chloromethane	2.068	50	580	1.105	ug/l #	42
5) Bromomethane	2.610	94	1189	2.037	ug/l #	80
11) Tert butyl alcohol	4.872	59	20	1.261	ug/l #	73
13) Acrolein	3.610	56	44	2.227	ug/l #	14
16) Acetone	3.884	43	195	4.326	ug/l #	45
20) Methylene Chloride	4.604	84	389	1.519	ug/l #	65
29) Tetrahydrofuran	7.274	42	48	1.144	ug/l #	31
31) Cyclohexane	7.707	56	707	1.658	ug/l #	72
36) 1,1-Dichloropropene	7.707	75	1917	6.258	ug/l #	49
38) Carbon Tetrachloride	7.707	117	2348	7.472	ug/l #	13
48) Methyl methacrylate	9.188	41	158	1.141	ug/l #	17
60) Dibromochloromethane	10.865	129	267	1.370	ug/l	64
74) N-amyl acetate	12.066	43	326	1.034	ug/l #	52
76) 1,2,3-Trichloropropane	12.462	75	10108	58.074	ug/l #	100
77) Bromobenzene	12.468	156	271340	1029.426	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.736	105	1091	1.113	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.401	75	6340	87.965	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.041	105	2215	2.258	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.486	75	37654	1261.555	ug/l #	12
95) Naphthalene	15.145	128	37519	79.061	ug/l	96

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

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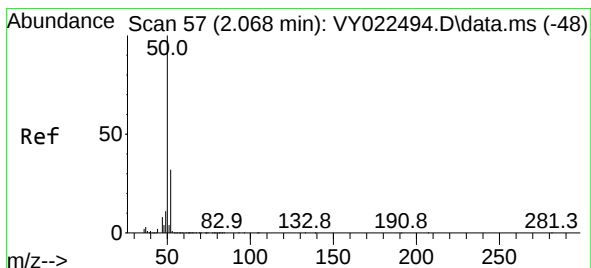
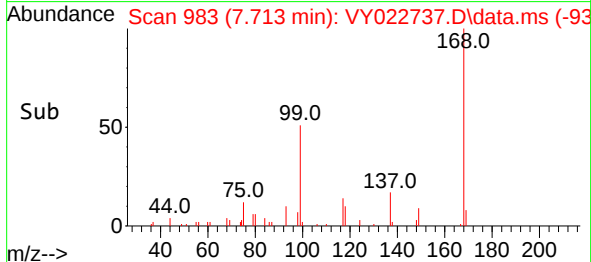
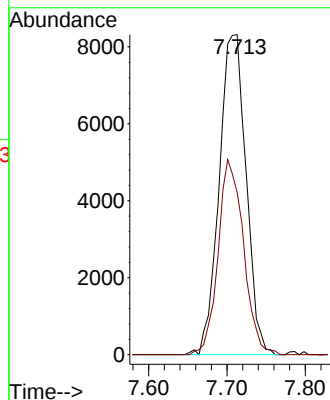
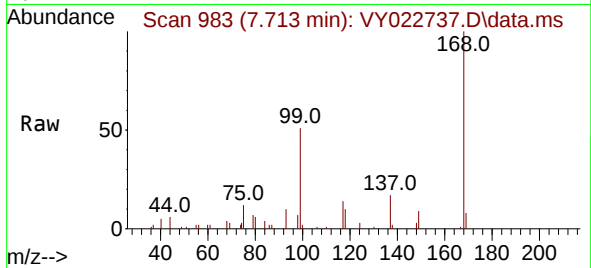




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

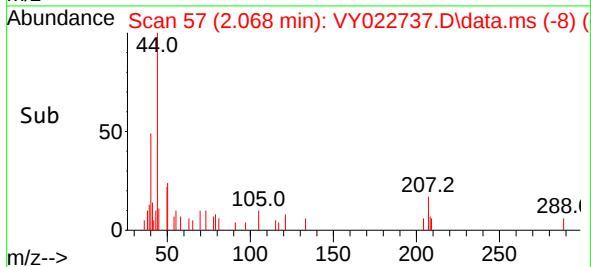
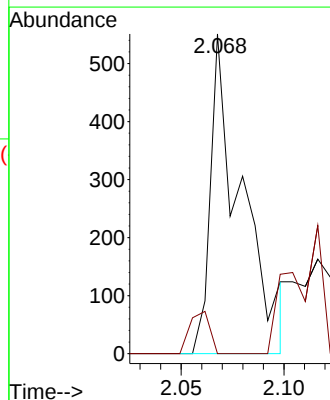
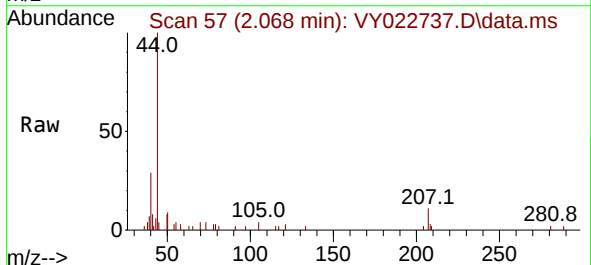
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025

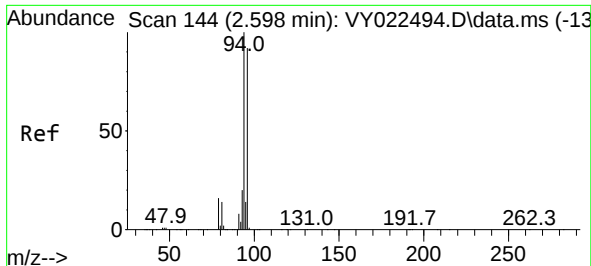
Tgt Ion:168 Resp: 19847
Ion Ratio Lower Upper
168 100
99 50.7 44.3 66.5



#3
Chloromethane
Concen: 1.105 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.000 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

Tgt Ion: 50 Resp: 580
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

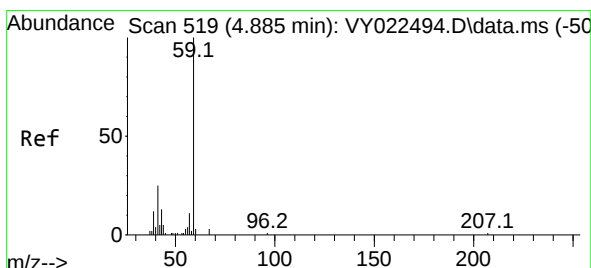
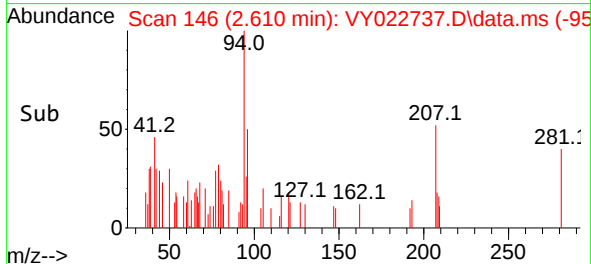
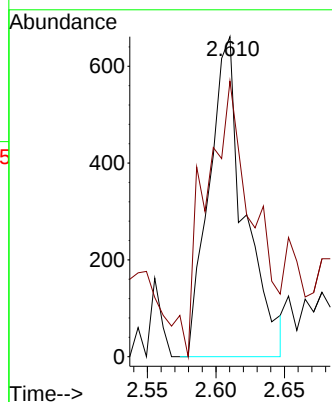
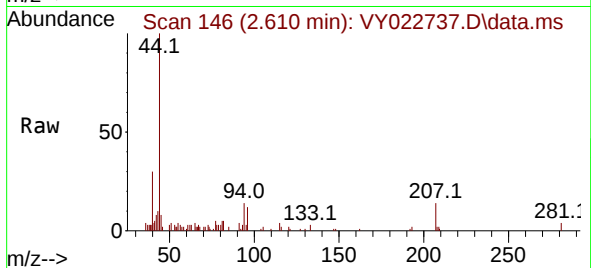




#5
Bromomethane
Concen: 2.037 ug/l
RT: 2.610 min Scan# 144
Delta R.T. 0.012 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

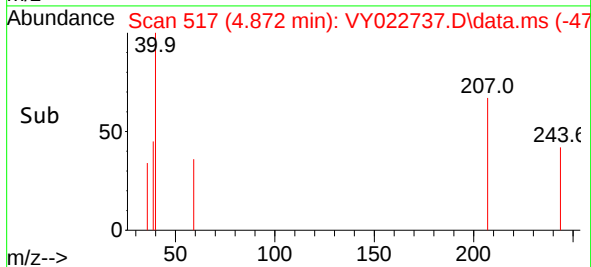
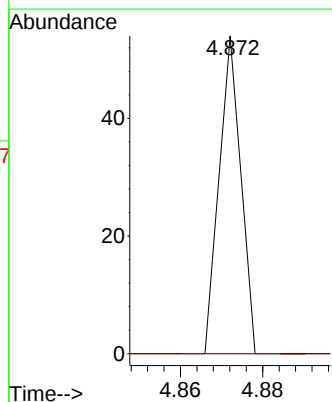
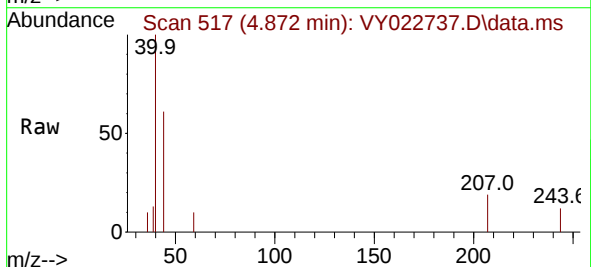
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025

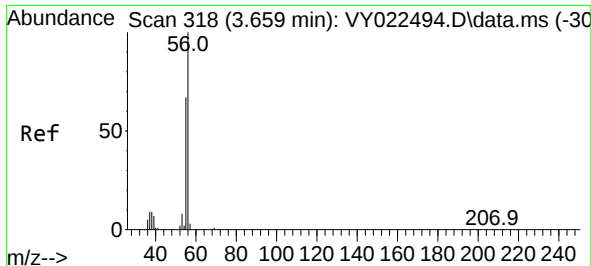
Tgt Ion: 94 Resp: 1189
Ion Ratio Lower Upper
94 100
96 73.2 74.0 111.0#



#11
Tert butyl alcohol
Concen: 1.261 ug/l
RT: 4.872 min Scan# 517
Delta R.T. -0.013 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

Tgt Ion: 59 Resp: 20
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

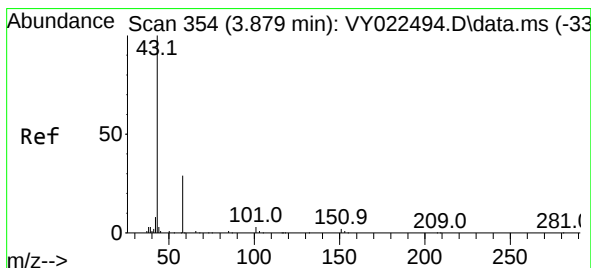
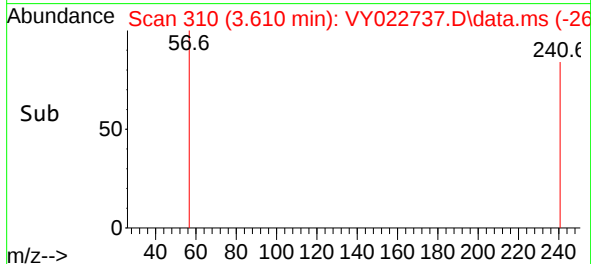
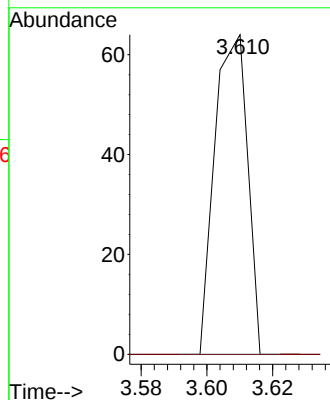
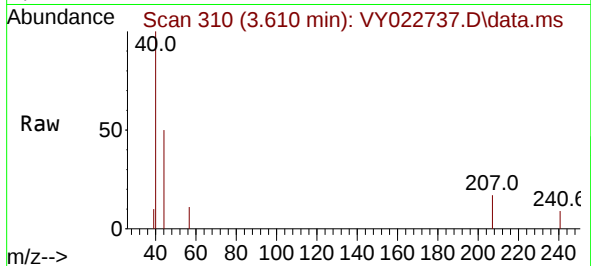




#13
Acrolein
Concen: 2.227 ug/l
RT: 3.610 min Scan# 318
Delta R.T. -0.049 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

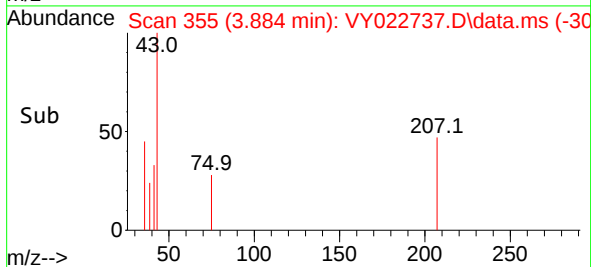
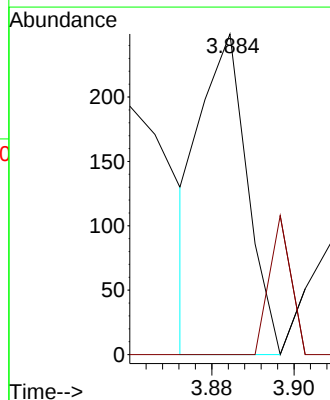
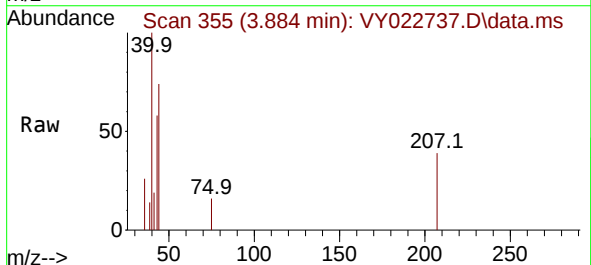
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025

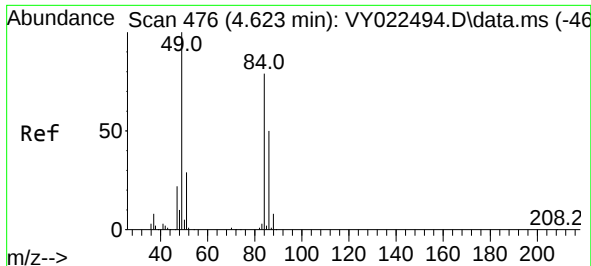
Tgt Ion: 56 Resp: 44
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.6#



#16
Acetone
Concen: 4.326 ug/l
RT: 3.884 min Scan# 355
Delta R.T. 0.006 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

Tgt Ion: 43 Resp: 195
Ion Ratio Lower Upper
43 100
58 0.0 24.0 36.0#

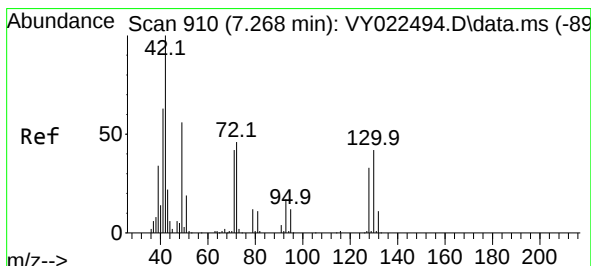
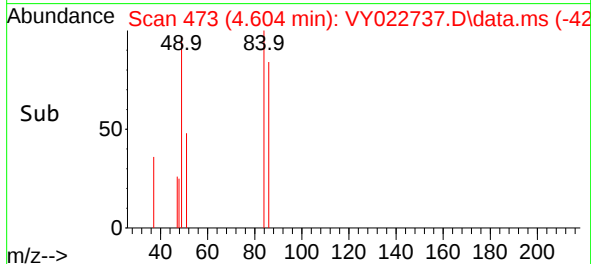
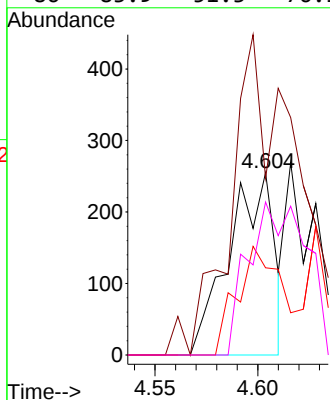
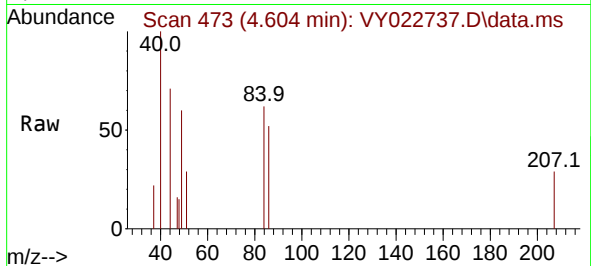




#20
Methylene Chloride
Concen: 1.519 ug/l
RT: 4.604 min Scan# 41
Delta R.T. -0.019 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

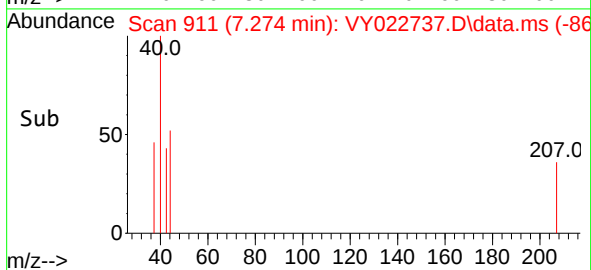
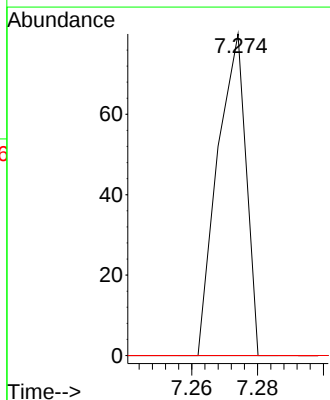
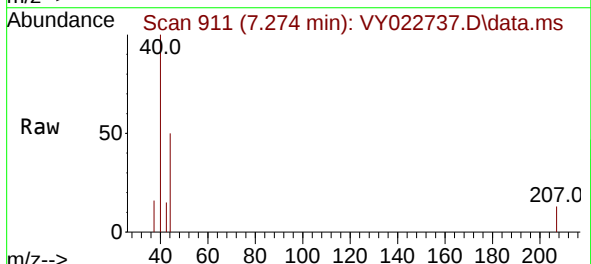
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025

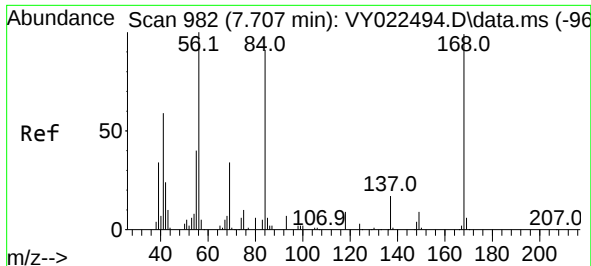
Tgt Ion: 84 Resp: 389
Ion Ratio Lower Upper
84 100
49 75.7 101.9 152.9#
51 47.8 29.8 44.8#
86 83.9 51.3 76.9#



#29
Tetrahydrofuran
Concen: 1.144 ug/l
RT: 7.274 min Scan# 911
Delta R.T. 0.006 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

Tgt Ion: 42 Resp: 48
Ion Ratio Lower Upper
42 100
72 0.0 37.4 56.2#
71 0.0 34.2 51.2#

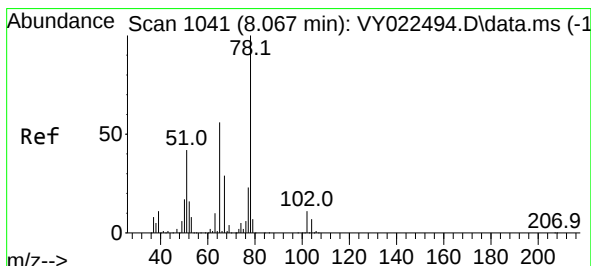
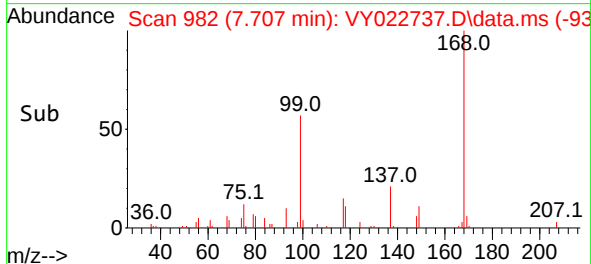
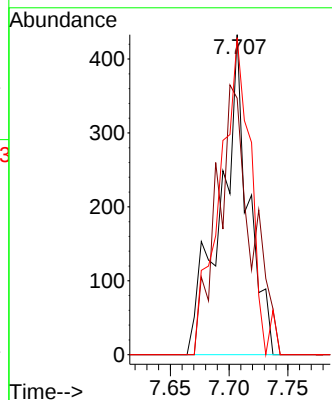
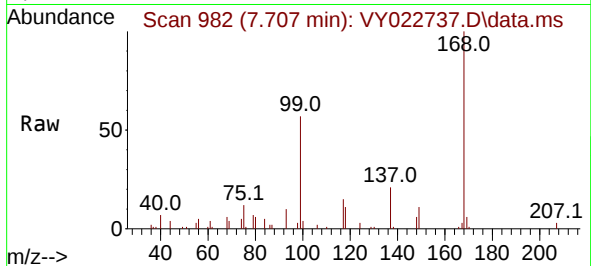




#31
Cyclohexane
Concen: 1.658 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

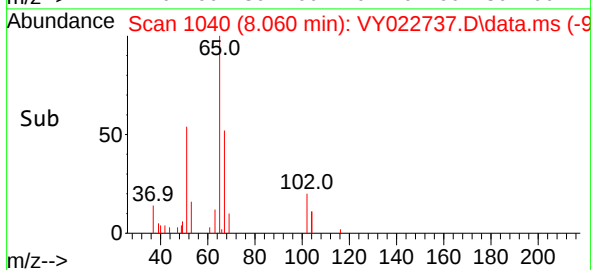
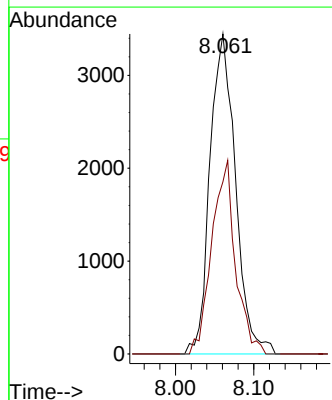
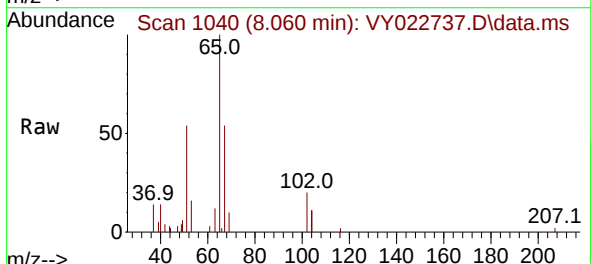
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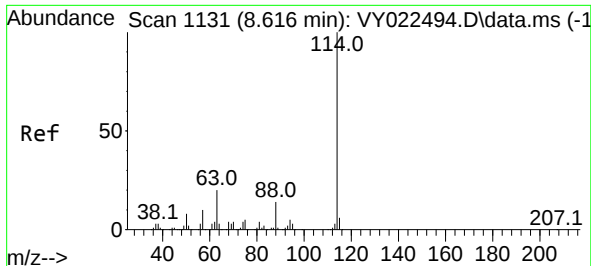
Tgt Ion: 56 Resp: 707
Ion Ratio Lower Upper
56 100
69 80.1 27.0 40.6#
84 99.1 72.6 109.0



#33
1,2-Dichloroethane-d4
Concen: 35.157 ug/l
RT: 8.060 min Scan# 1040
Delta R.T. -0.007 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

Tgt Ion: 65 Resp: 7804
Ion Ratio Lower Upper
65 100
67 56.4 0.0 103.4

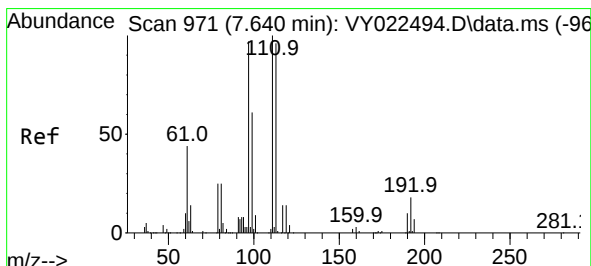
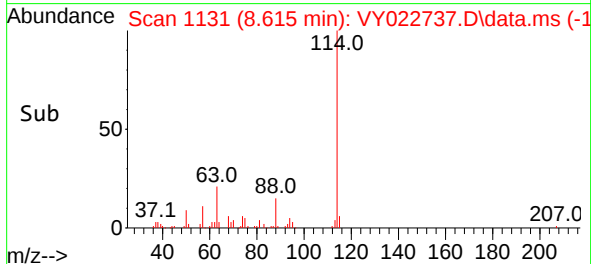
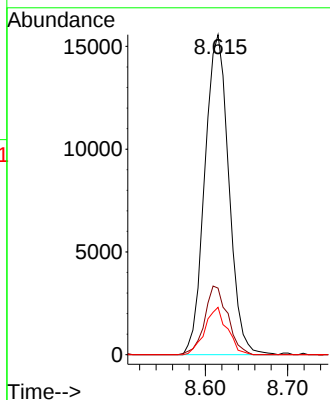
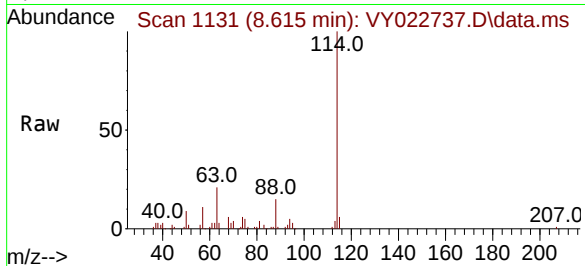




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

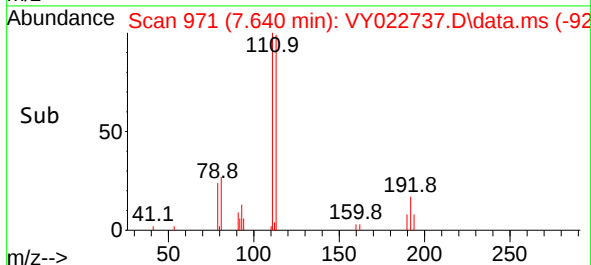
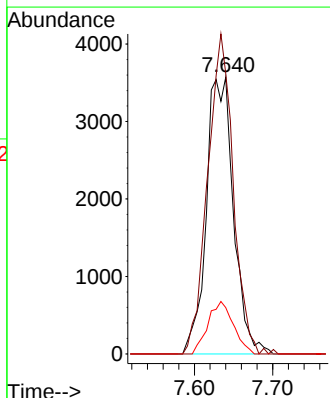
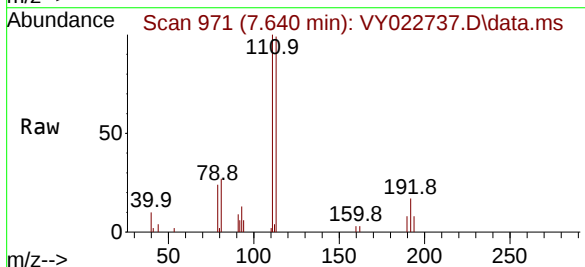
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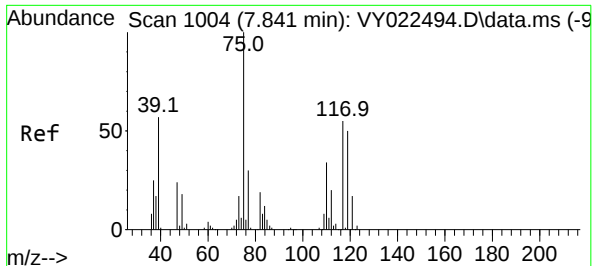
Tgt Ion:	114	Resp:	31619
Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.8
88	14.8	0.0	27.8



#35
Dibromofluoromethane
Concen: 45.674 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

Tgt Ion:	113	Resp:	8620
Ion	Ratio	Lower	Upper
113	100		
111	108.8	81.1	121.7
192	17.8	14.2	21.2





#36

1,1-Dichloropropene

Concen: 6.258 ug/l

RT: 7.707 min Scan# 9

Delta R.T. -0.135 min

Lab File: VY022737.D

Acq: 18 Jun 2025 14:54

Instrument :

MSVOA_Y

ClientSampleId :

TR-06-06182025

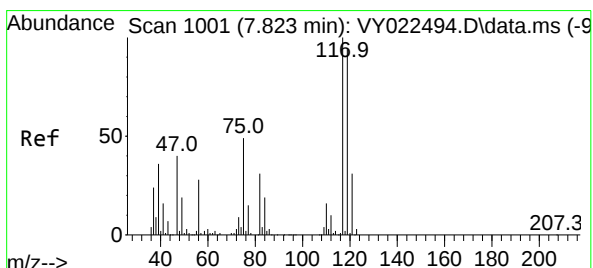
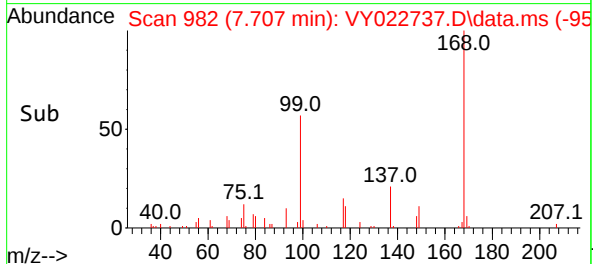
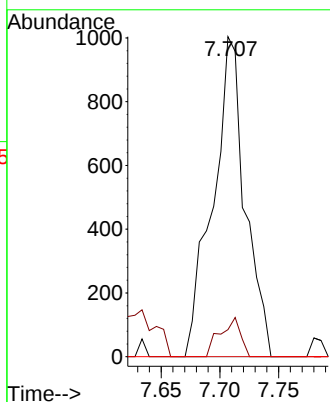
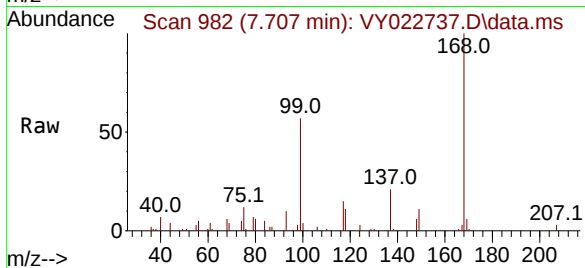
Tgt Ion: 75 Resp: 1917

Ion Ratio Lower Upper

75 100

110 7.8 16.9 50.7#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.472 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.116 min

Lab File: VY022737.D

Acq: 18 Jun 2025 14:54

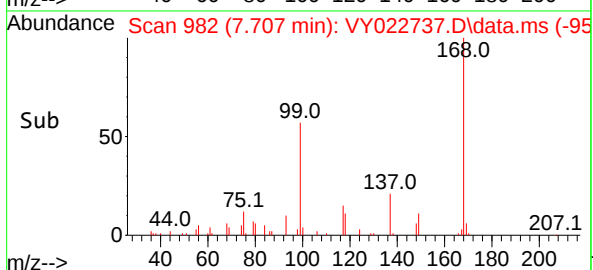
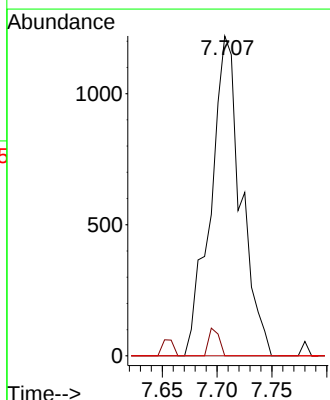
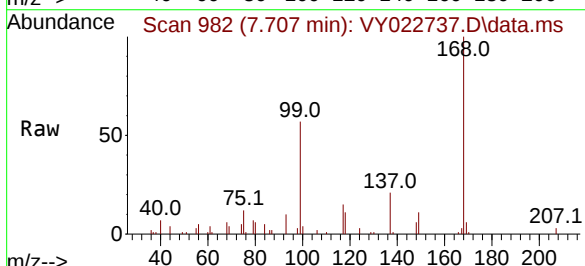
Tgt Ion: 117 Resp: 2348

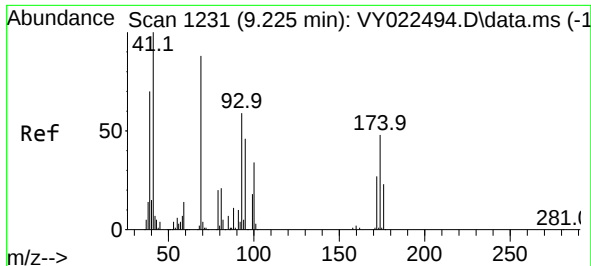
Ion Ratio Lower Upper

117 100

119 0.0 75.0 112.6#

121 0.0 25.0 37.4#

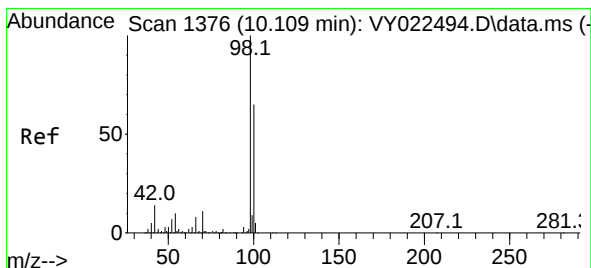
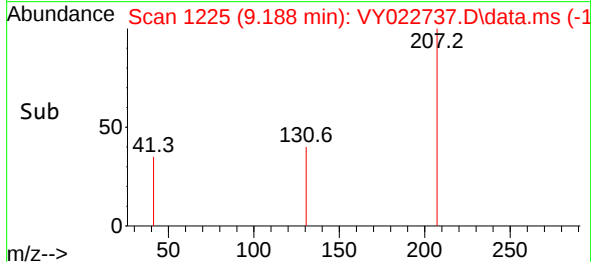
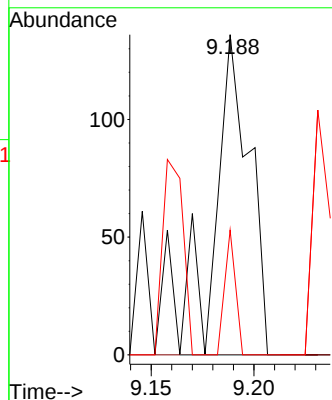
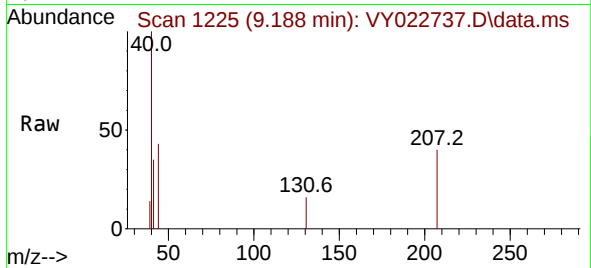




#48
Methyl methacrylate
Concen: 1.141 ug/l
RT: 9.188 min Scan# 11
Delta R.T. -0.037 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

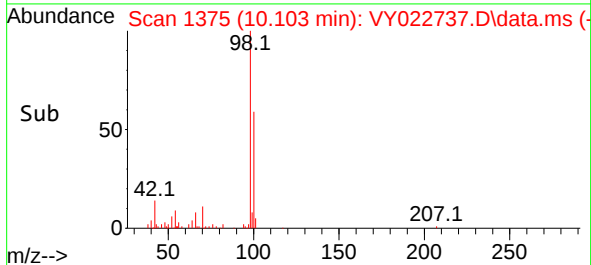
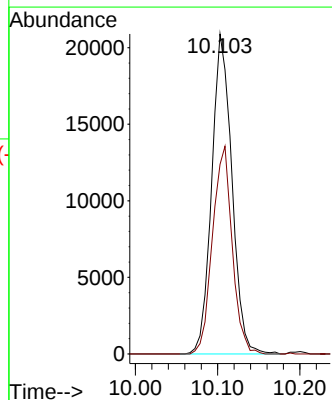
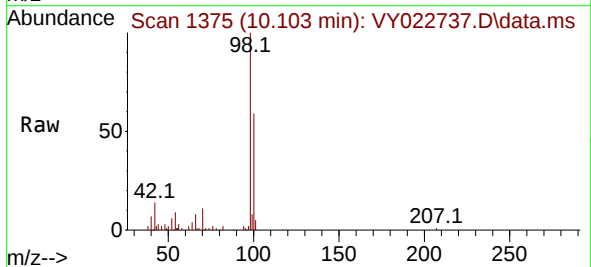
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025

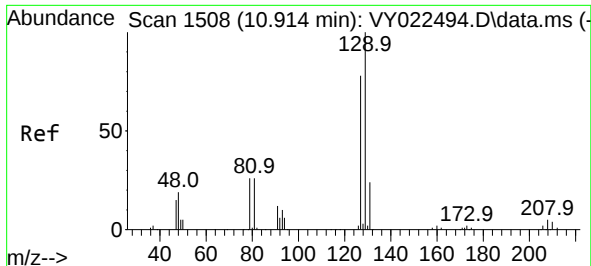
Tgt Ion: 41 Resp: 158
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.8#
39 12.0 55.0 82.4#



#50
Toluene-d8
Concen: 46.795 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

Tgt Ion: 98 Resp: 35685
Ion Ratio Lower Upper
98 100
100 63.3 51.4 77.0

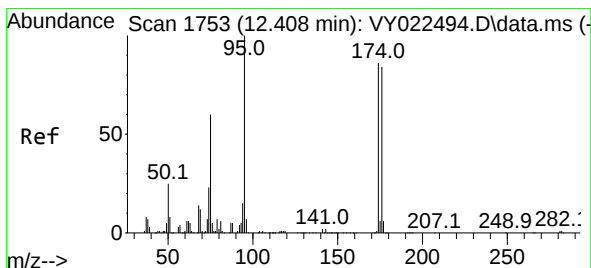
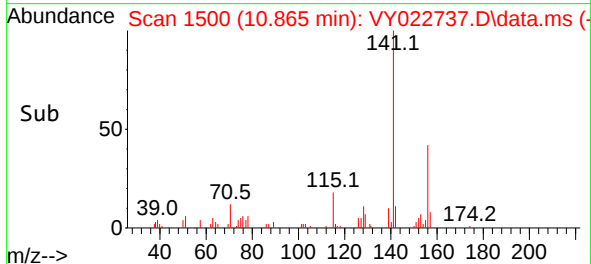
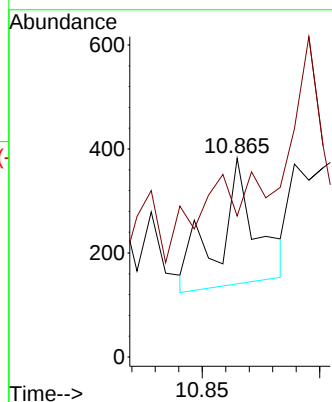
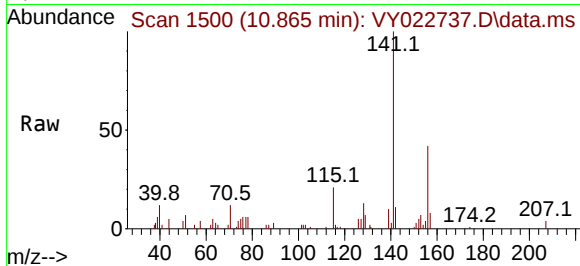




#60
Dibromochloromethane
Concen: 1.370 ug/l
RT: 10.865 min Scan# 1500
Delta R.T. -0.049 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

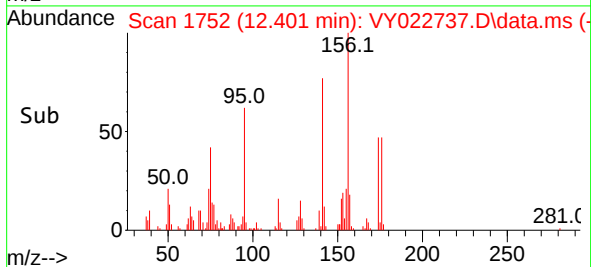
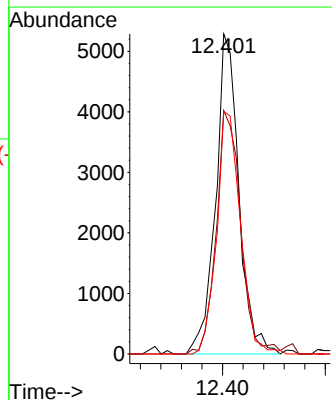
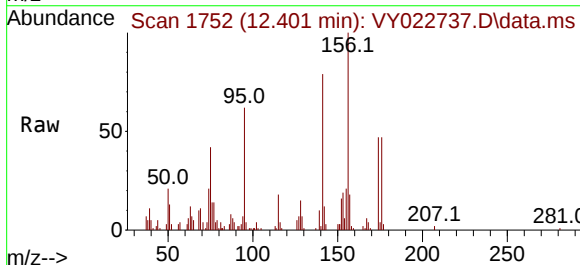
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025

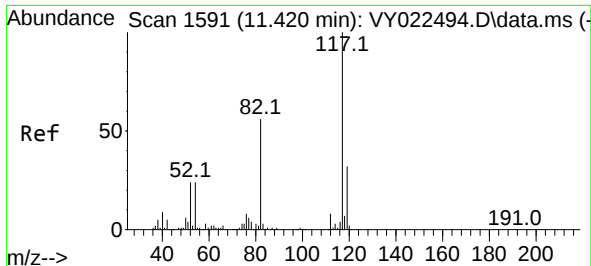
Tgt Ion:129 Resp: 267
Ion Ratio Lower Upper
129 100
127 109.4 39.1 117.2



#62
4-Bromofluorobenzene
Concen: 36.477 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.007 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

Tgt Ion: 95 Resp: 8288
Ion Ratio Lower Upper
95 100
174 79.7 0.0 170.0
176 77.8 0.0 166.2

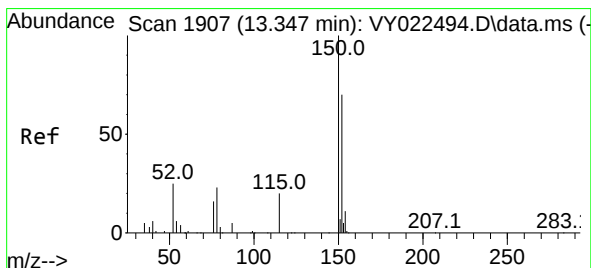
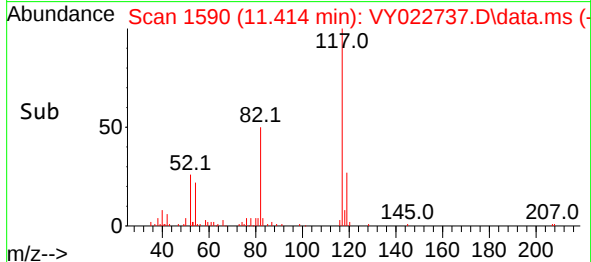
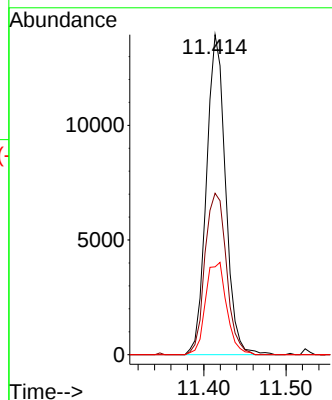
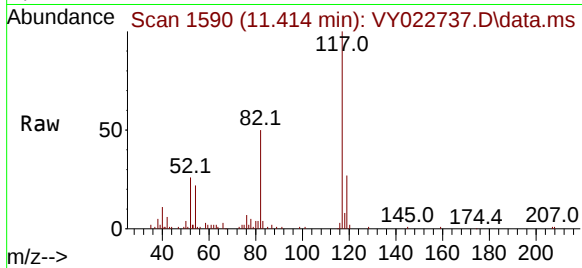




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.007 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

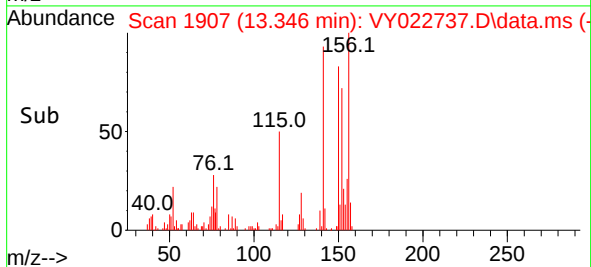
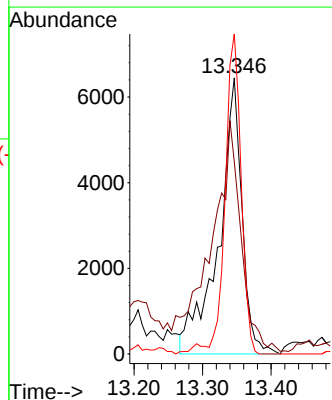
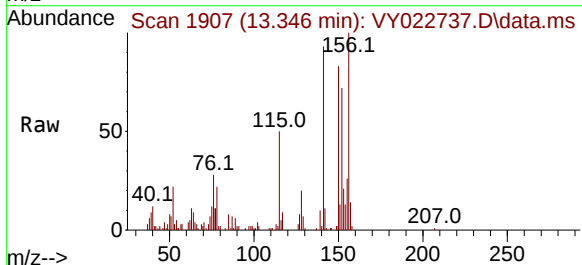
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025

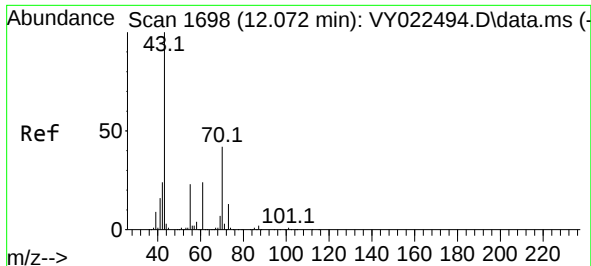
Tgt Ion:117 Resp: 22514
Ion Ratio Lower Upper
117 100
82 50.5 44.6 66.8
119 27.4 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

Tgt Ion:152 Resp: 15214
Ion Ratio Lower Upper
152 100
115 106.8 28.9 86.7#
150 77.6 0.0 349.6

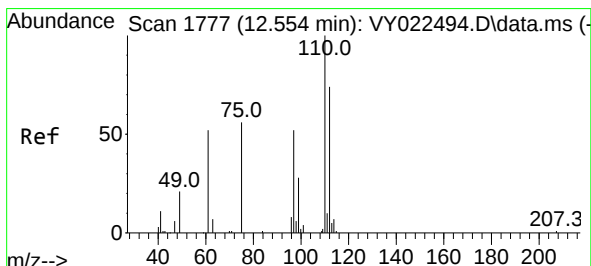
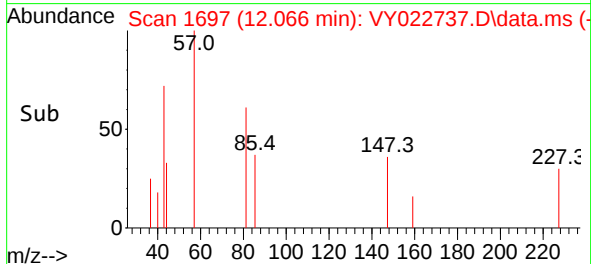
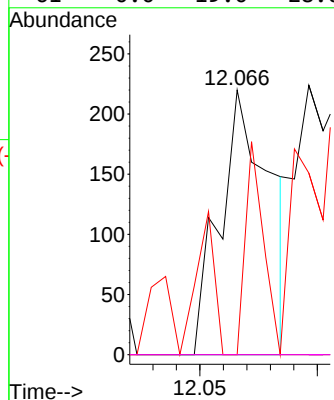
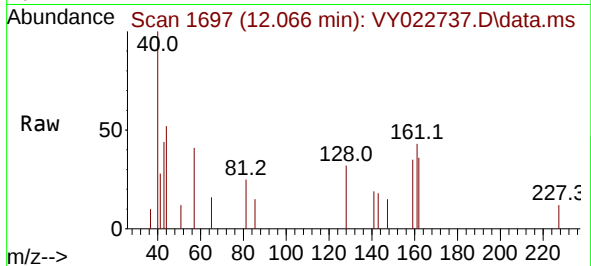




#74
N-amy1 acetate
Concen: 1.034 ug/l
RT: 12.066 min Scan# 1762
Delta R.T. -0.007 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

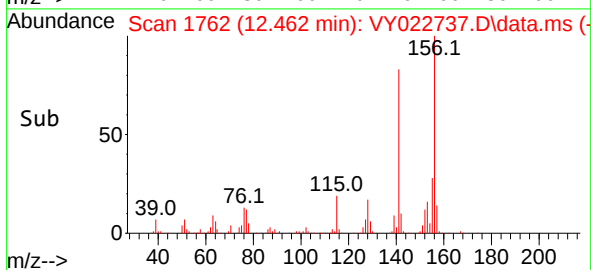
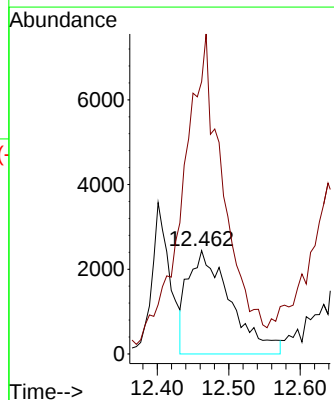
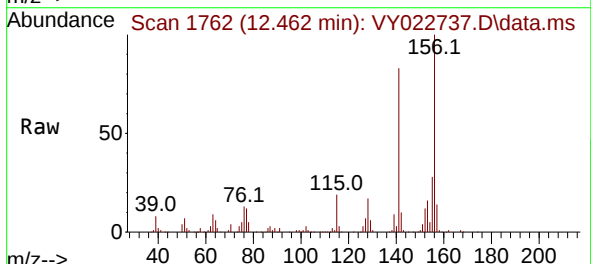
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025

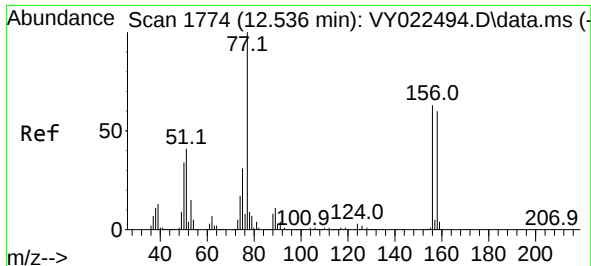
Tgt Ion: 43	Resp: 326
Ion Ratio	Lower Upper
43 100	
70 0.0	34.2 51.2#
55 28.8	18.2 27.4#
61 0.0	19.0 28.6#



#76
1,2,3-Trichloropropane
Concen: 58.074 ug/l
RT: 12.462 min Scan# 1762
Delta R.T. -0.092 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

Tgt Ion: 75	Resp: 10108
Ion Ratio	Lower Upper
75 100	
77 308.5	0.0 0.0#

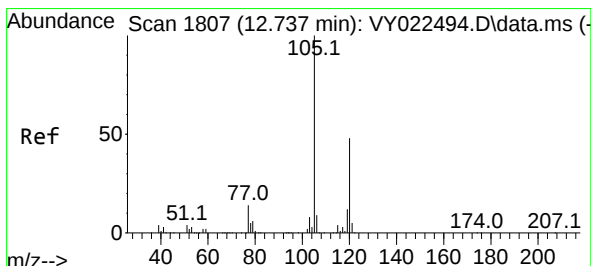
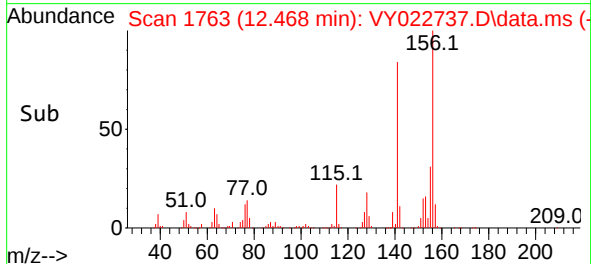
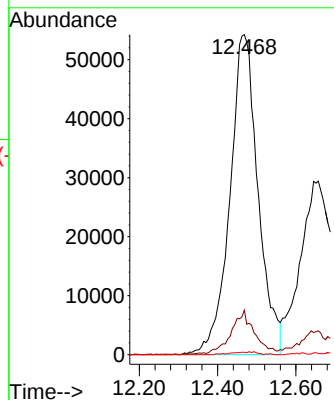
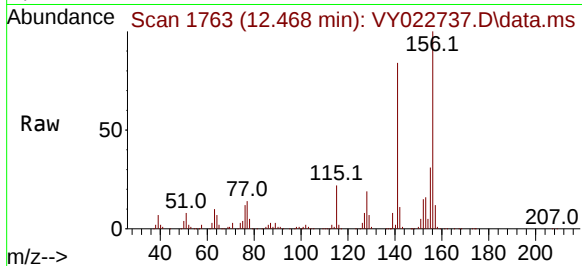




#77
Bromobenzene
Concen: 1029.426 ug/l
RT: 12.468 min Scan# 11
Delta R.T. -0.067 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

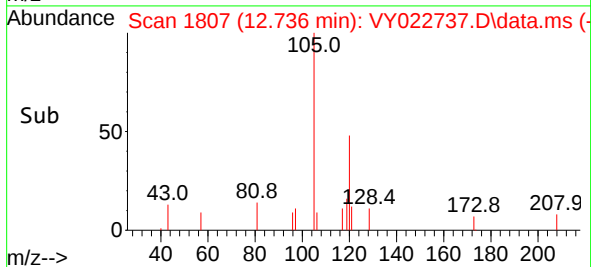
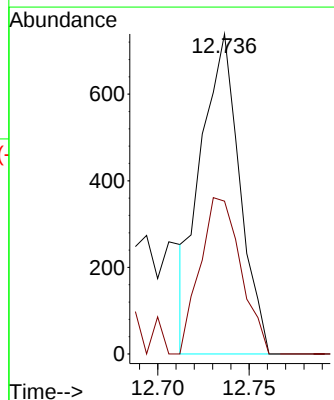
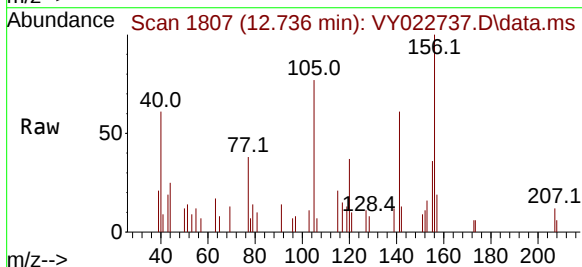
Instrument :
MSVOA_Y
ClientSampleId :
TR-06-06182025

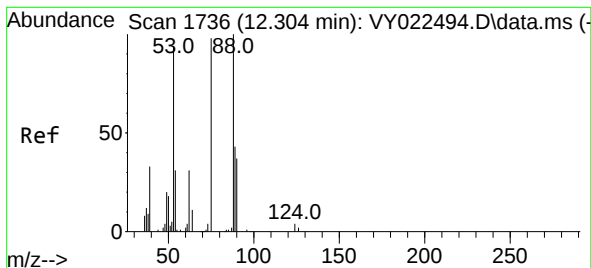
Tgt Ion:156 Resp: 271340
Ion Ratio Lower Upper
156 100
77 11.5 94.0 282.1#
158 0.4 48.2 144.6#



#80
1,3,5-Trimethylbenzene
Concen: 1.113 ug/l
RT: 12.736 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022737.D
Acq: 18 Jun 2025 14:54

Tgt Ion:105 Resp: 1091
Ion Ratio Lower Upper
105 100
120 51.6 24.1 72.4

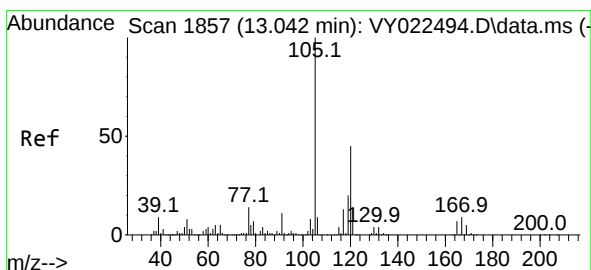
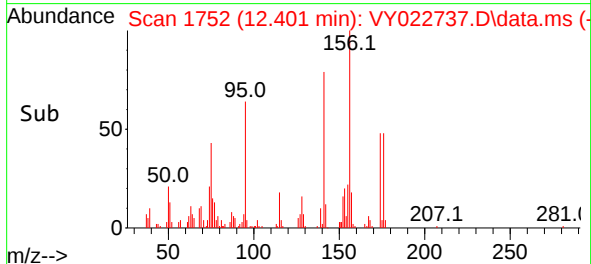
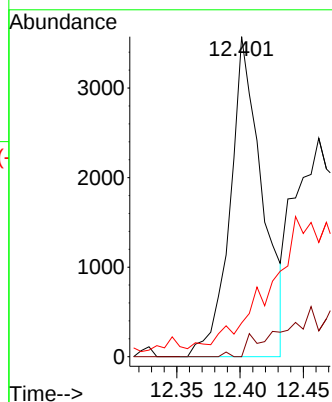
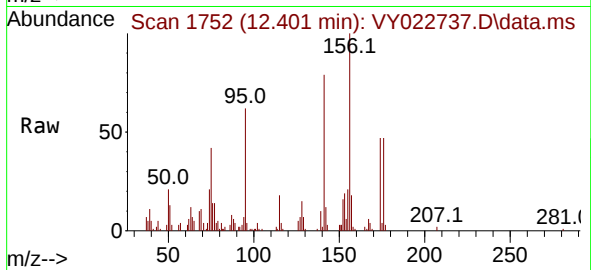




#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.965 ug/l
 RT: 12.401 min Scan# 1752
 Delta R.T. 0.097 min
 Lab File: VY022737.D
 Acq: 18 Jun 2025 14:54

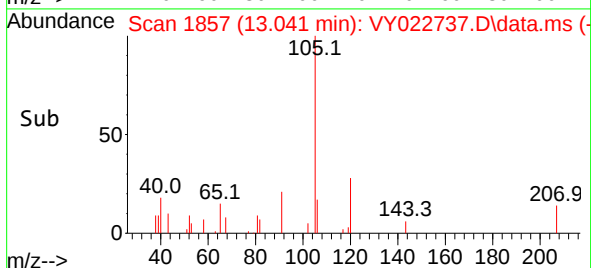
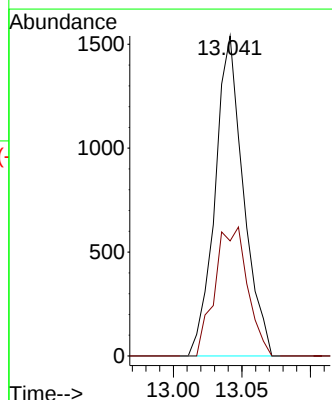
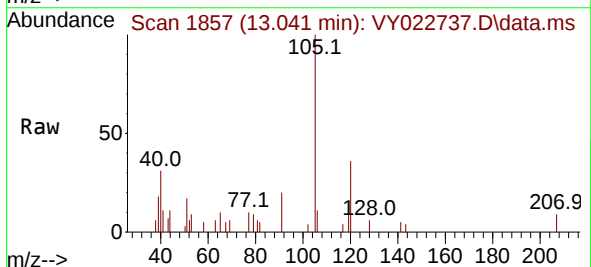
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-06-06182025

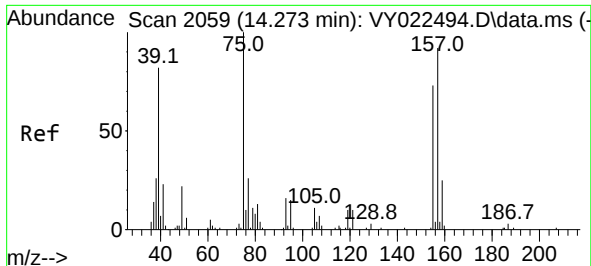
Tgt Ion: 75 Resp: 6340
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 35.7 53.5#



#84
 1,2,4-Trimethylbenzene
 Concen: 2.258 ug/l
 RT: 13.041 min Scan# 1857
 Delta R.T. -0.000 min
 Lab File: VY022737.D
 Acq: 18 Jun 2025 14:54

Tgt Ion: 105 Resp: 2215
 Ion Ratio Lower Upper
 105 100
 120 46.3 22.7 68.1

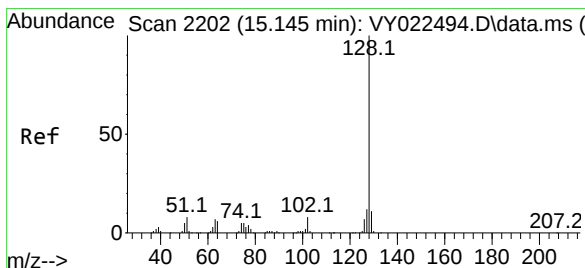
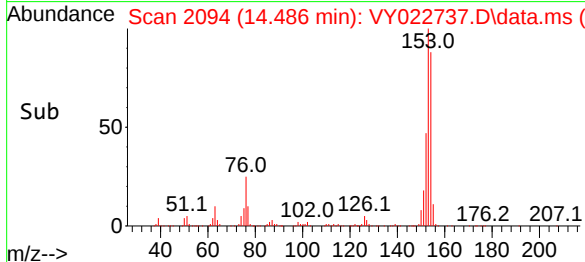
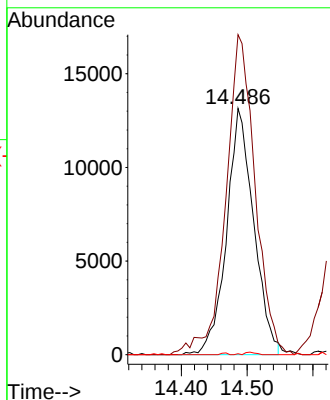
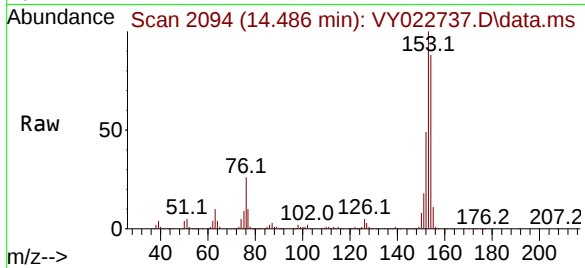




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1261.555 ug/l
 RT: 14.486 min Scan# 2059
 Delta R.T. 0.213 min
 Lab File: VY022737.D
 Acq: 18 Jun 2025 14:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-06-06182025

Tgt Ion: 75 Resp: 37654
 Ion Ratio Lower Upper
 75 100
 155 140.0 39.9 119.6#
 157 0.2 54.0 162.0#



#95
 Naphthalene
 Concen: 79.061 ug/l
 RT: 15.145 min Scan# 2202
 Delta R.T. -0.000 min
 Lab File: VY022737.D
 Acq: 18 Jun 2025 14:54

Tgt Ion: 128 Resp: 37519
 Ion Ratio Lower Upper
 128 100
 127 15.1 10.4 15.6
 129 12.2 8.9 13.3

