

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062525\
 Data File : VY022817.D
 Acq On : 25 Jun 2025 12:11
 Operator : SY/MD
 Sample : Q2386-01
 Misc : 5.54g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-1-062025

Quant Time: Jun 26 01:24:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

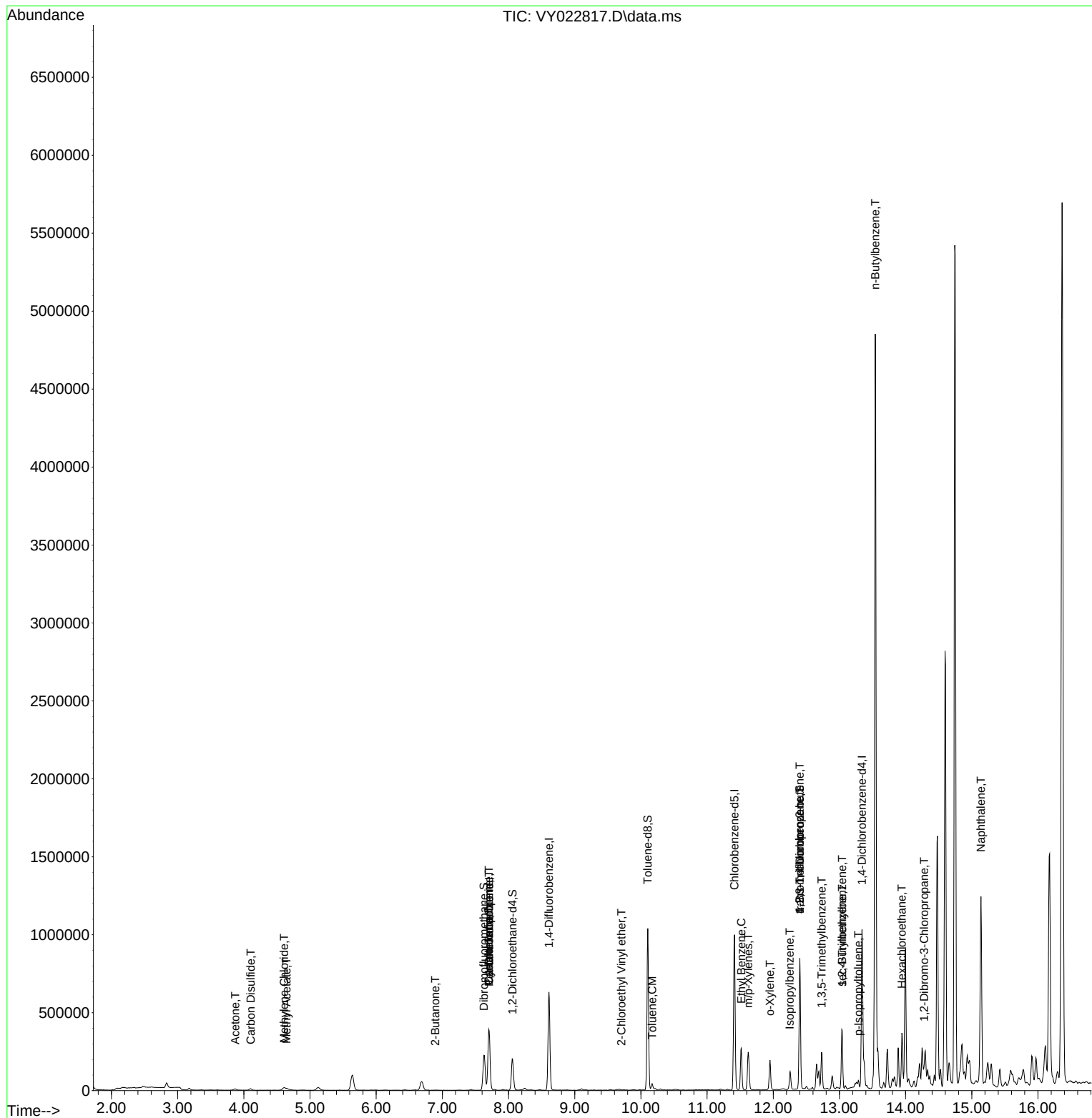
Internal Standards						
1) Pentafluorobenzene	7.707	168	288502	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	528603	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	513873	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	246299	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	155865	48.406	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.820%		
35) Dibromofluoromethane	7.628	113	160335	49.875	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.760%		
50) Toluene-d8	10.103	98	642210	50.344	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	100.680%		
62) 4-Bromofluorobenzene	12.402	95	237563	57.931	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	115.860%		
Target Compounds					Qvalue	
16) Acetone	3.873	43	14869	24.431	ug/l	90
17) Carbon Disulfide	4.104	76	17074	1.810	ug/l	98
18) Methyl Acetate	4.647	43	10532	5.226	ug/l #	51
20) Methylene Chloride	4.610	84	9706	2.525	ug/l	85
25) 2-Butanone	6.890	43	1764	1.991	ug/l #	46
31) Cyclohexane	7.701	56	12964	2.344	ug/l #	54
36) 1,1-Dichloropropene	7.701	75	24895	5.109	ug/l #	51
38) Carbon Tetrachloride	7.701	117	30176	5.869	ug/l #	16
52) Toluene	10.170	92	15139	1.602	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.707	63	23	15.667	ug/l #	48
67) Ethyl Benzene	11.518	91	183765	9.263	ug/l	99
68) m/p-Xylenes	11.621	106	73265	9.553	ug/l	100
69) o-Xylene	11.950	106	46842	6.482	ug/l	100
73) Isopropylbenzene	12.249	105	21050	1.156	ug/l	94
76) 1,2,3-Trichloropropane	12.402	75	133294	53.010	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.731	105	113353	7.709	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.402	75	133294	133.924	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.042	105	197173	13.393	ug/l	98
85) sec-Butylbenzene	13.042	105	197173	10.105	ug/l #	57
86) p-Isopropyltoluene	13.286	119	24338	1.499	ug/l #	77
89) n-Butylbenzene	13.542	91	403085	26.391	ug/l #	44
90) Hexachloroethane	13.944	117	141632	43.795	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4446	8.930	ug/l #	2
95) Naphthalene	15.139	128	931358	124.830	ug/l	100

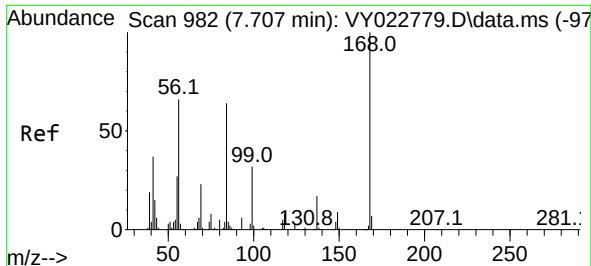
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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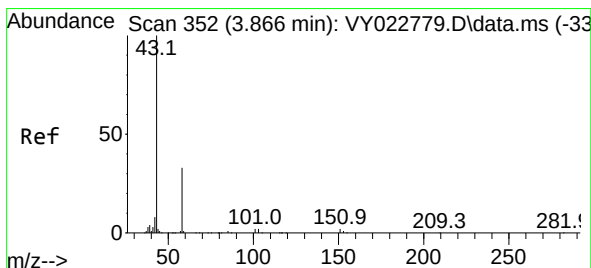
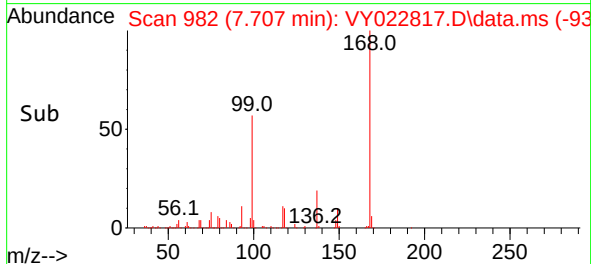
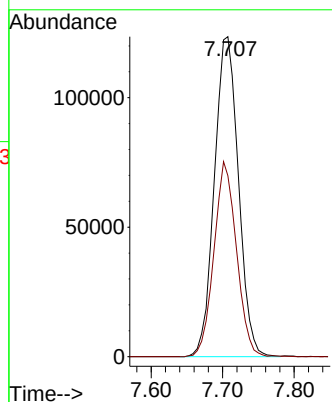
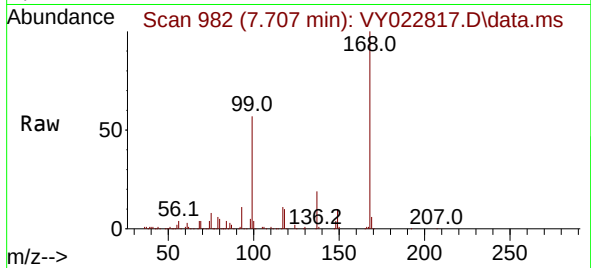




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.006 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

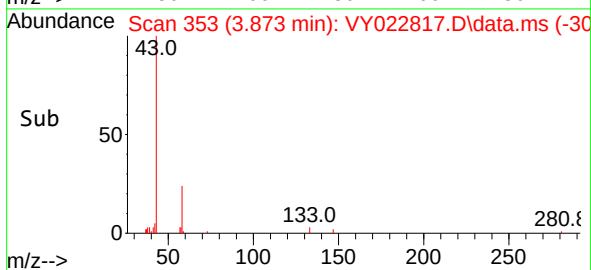
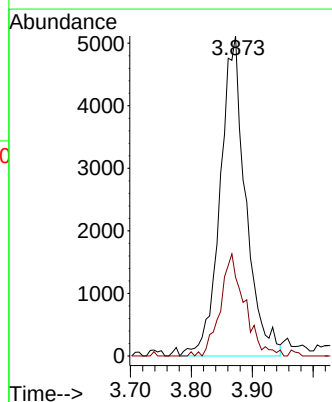
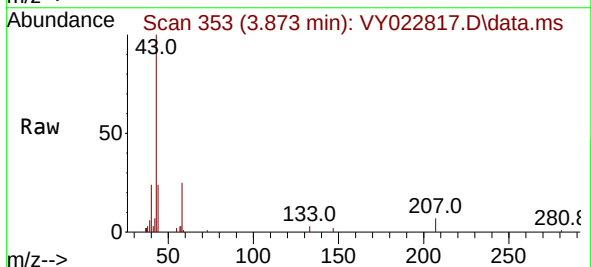
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

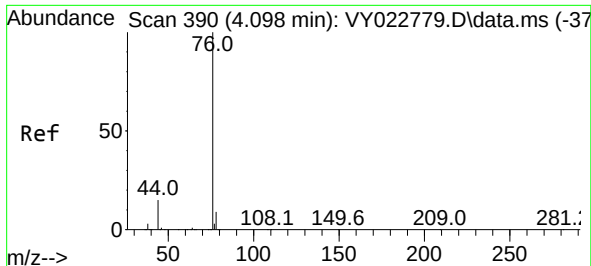
Tgt Ion:168 Resp: 288502
Ion Ratio Lower Upper
168 100
99 56.6 44.3 66.5



#16
Acetone
Concen: 24.431 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

Tgt Ion: 43 Resp: 14869
Ion Ratio Lower Upper
43 100
58 24.6 24.0 36.0

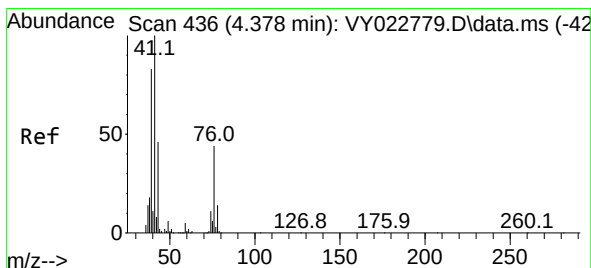
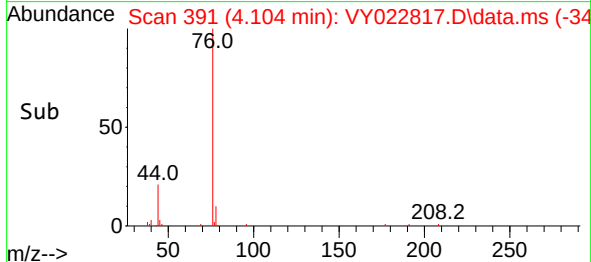
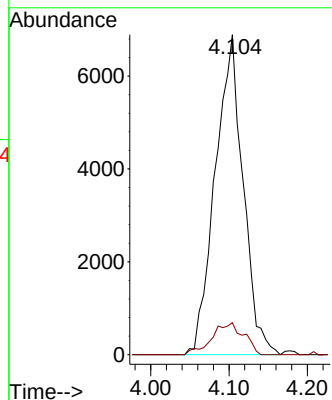
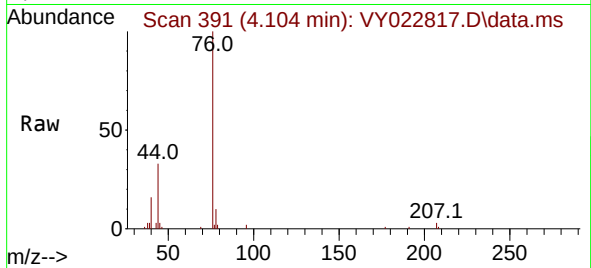




#17
Carbon Disulfide
Concen: 1.810 ug/l
RT: 4.104 min Scan# 391
Delta R.T. -0.006 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

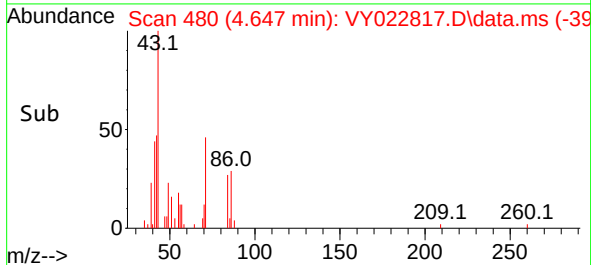
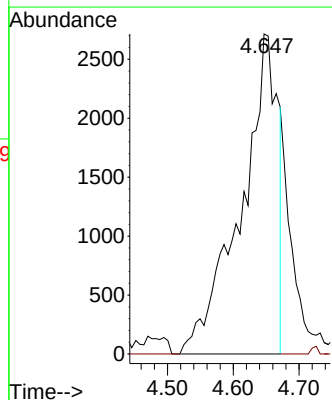
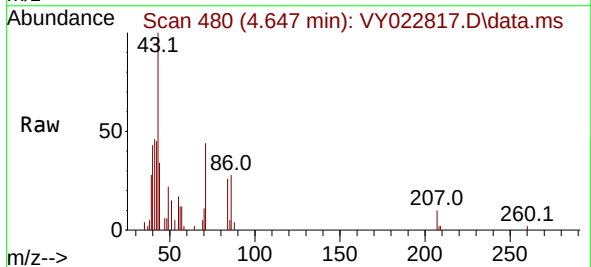
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

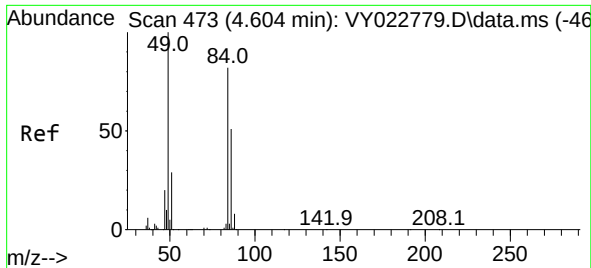
Tgt Ion: 76 Resp: 17074
Ion Ratio Lower Upper
76 100
78 10.0 7.4 11.2



#18
Methyl Acetate
Concen: 5.226 ug/l
RT: 4.647 min Scan# 480
Delta R.T. 0.250 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

Tgt Ion: 43 Resp: 10532
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#

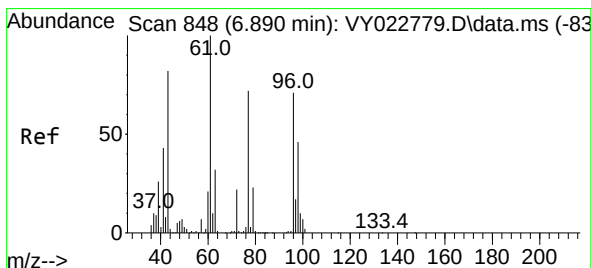
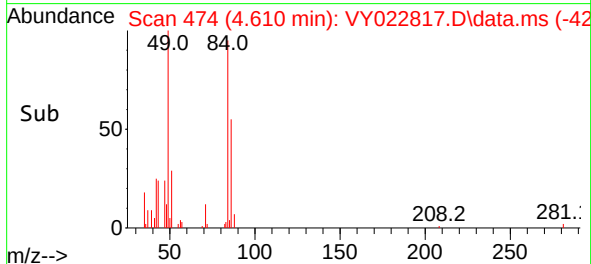
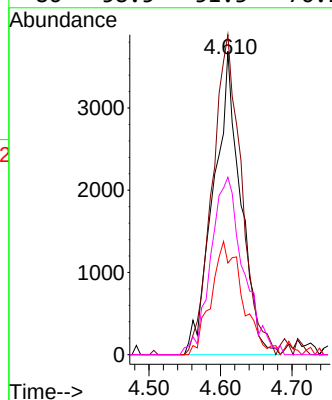
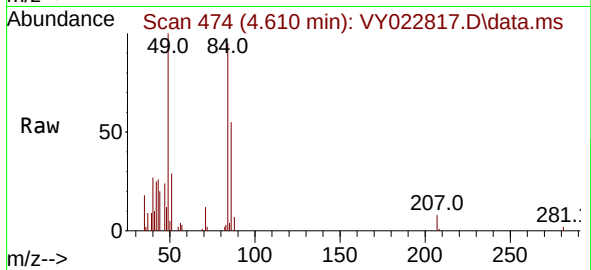




#20
Methylene Chloride
Concen: 2.525 ug/l
RT: 4.610 min Scan# 473
Delta R.T. -0.012 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

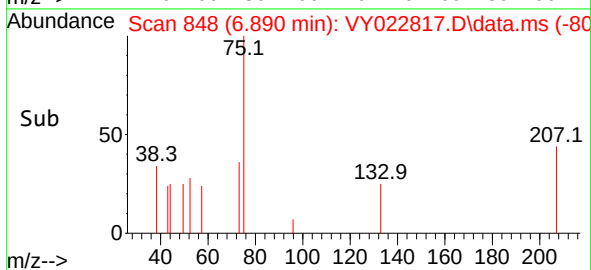
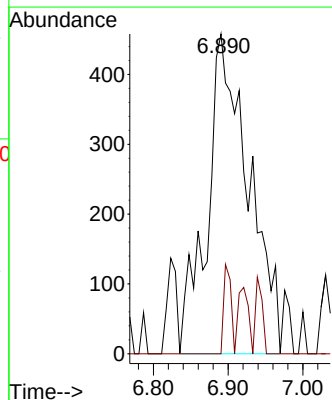
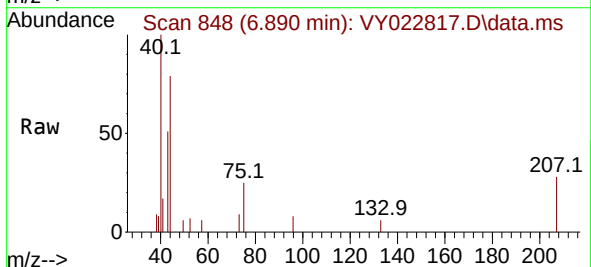
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

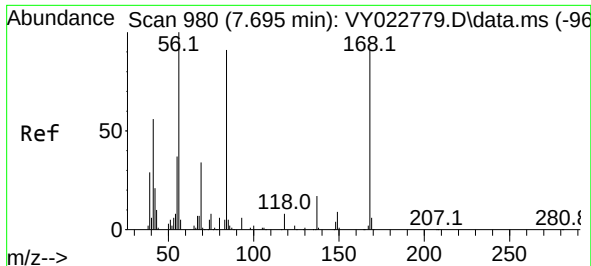
Tgt Ion:	84	Resp:	9706
Ion	Ratio	Lower	Upper
84	100		
49	105.5	101.9	152.9
51	30.2	29.8	44.8
86	58.5	51.3	76.9



#25
2-Butanone
Concen: 1.991 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

Tgt Ion:	43	Resp:	1764
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.9	34.3#

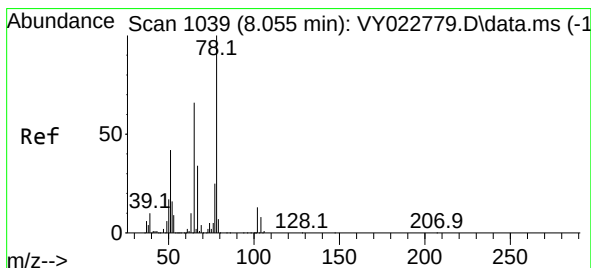
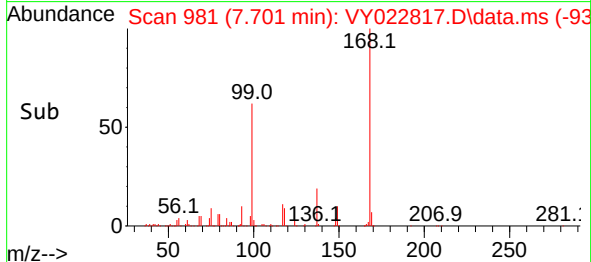
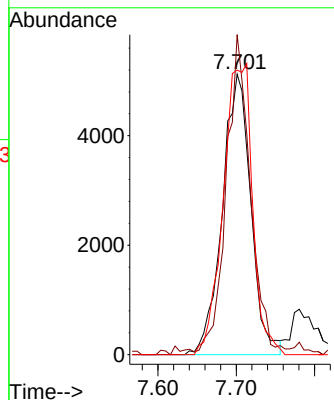
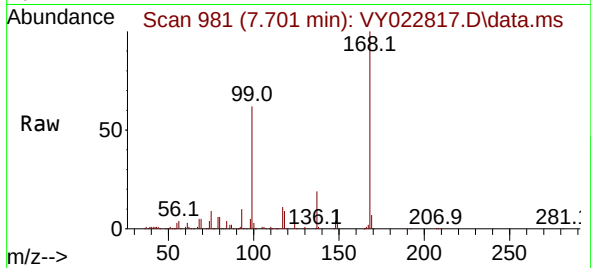




#31
Cyclohexane
Concen: 2.344 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

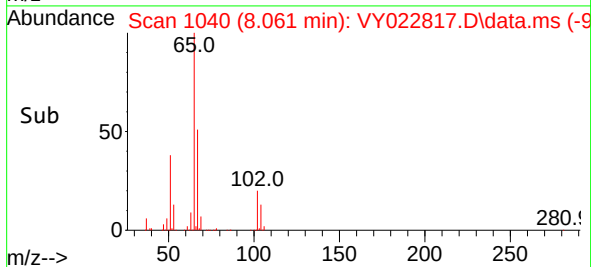
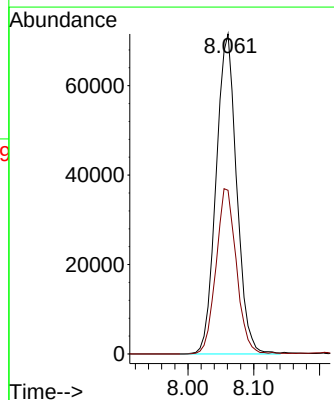
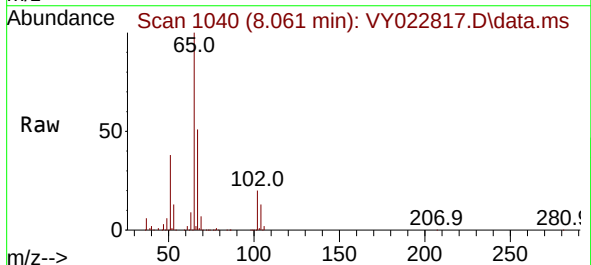
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

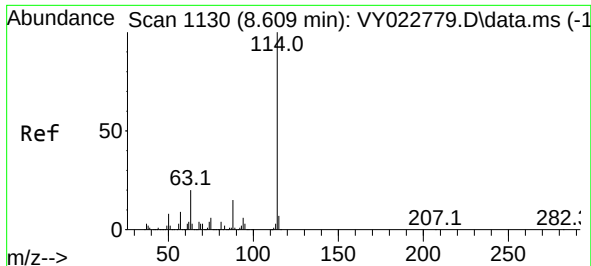
Tgt Ion: 56 Resp: 12964
Ion Ratio Lower Upper
56 100
69 112.9 27.0 40.6#
84 101.4 72.6 109.0



#33
1,2-Dichloroethane-d4
Concen: 48.406 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

Tgt Ion: 65 Resp: 155865
Ion Ratio Lower Upper
65 100
67 51.3 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022817.D

Acq: 25 Jun 2025 12:11

Instrument :

MSVOA_Y

ClientSampleId :

SU-1-062025

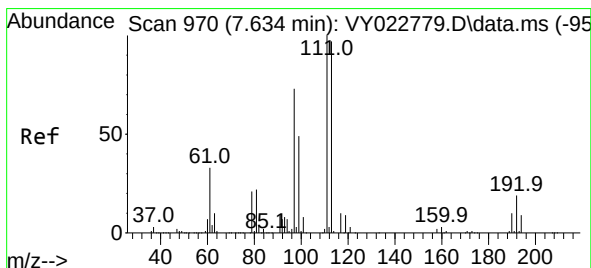
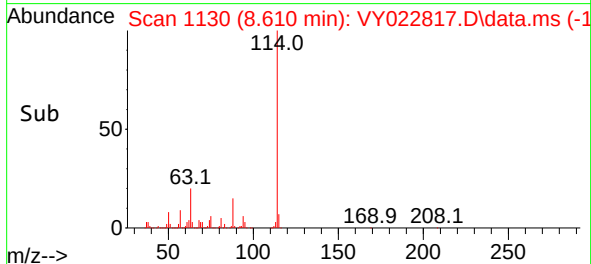
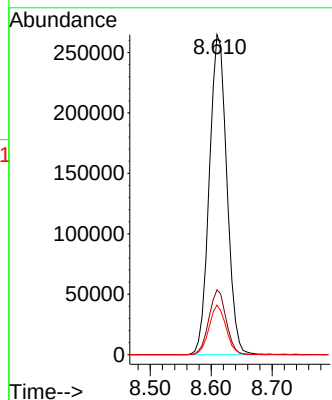
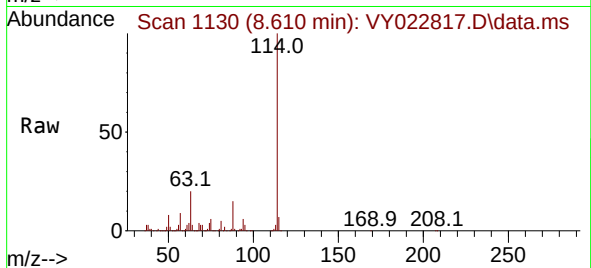
Tgt Ion:114 Resp: 528603

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

88 15.5 0.0 27.8



#35

Dibromofluoromethane

Concen: 49.875 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.012 min

Lab File: VY022817.D

Acq: 25 Jun 2025 12:11

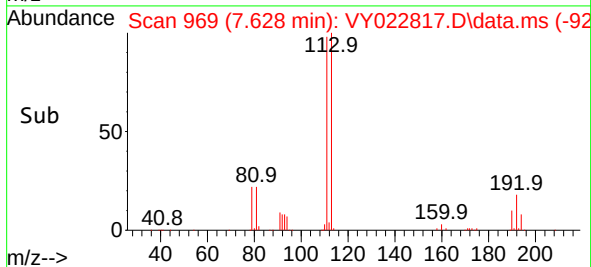
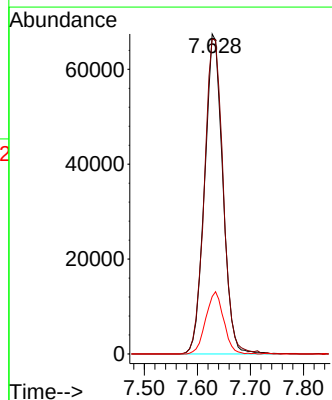
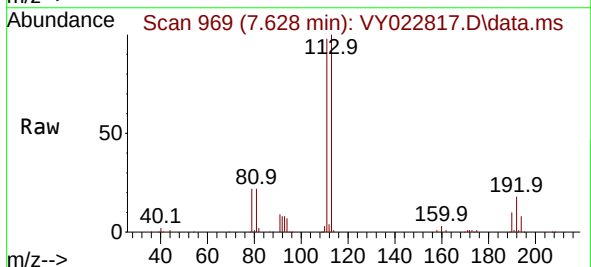
Tgt Ion:113 Resp: 160335

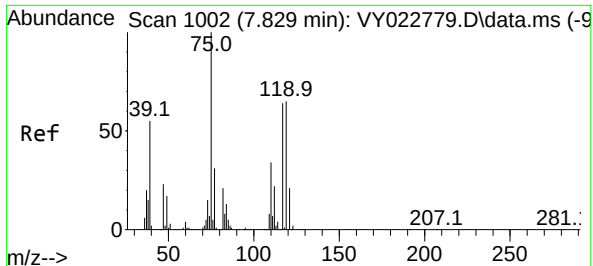
Ion Ratio Lower Upper

113 100

111 102.1 81.1 121.7

192 19.3 14.2 21.2





#36

1,1-Dichloropropene

Concen: 5.109 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.140 min

Lab File: VY022817.D

Acq: 25 Jun 2025 12:11

Instrument :

MSVOA_Y

ClientSampleId :

SU-1-062025

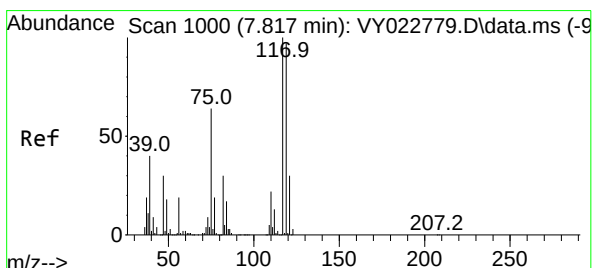
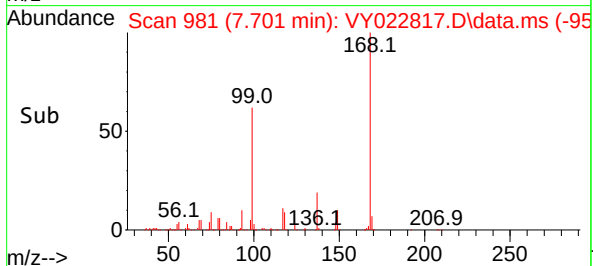
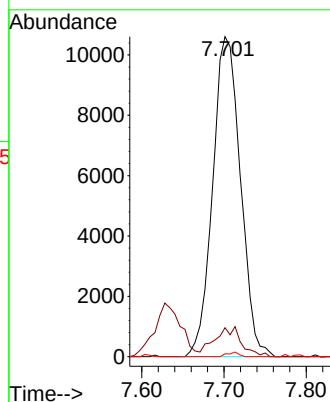
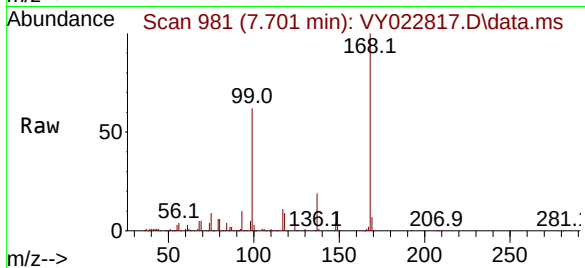
Tgt Ion: 75 Resp: 24895

Ion Ratio Lower Upper

75 100

110 9.0 16.9 50.7#

77 0.6 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 5.869 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.122 min

Lab File: VY022817.D

Acq: 25 Jun 2025 12:11

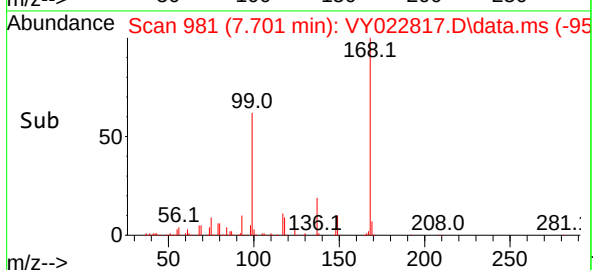
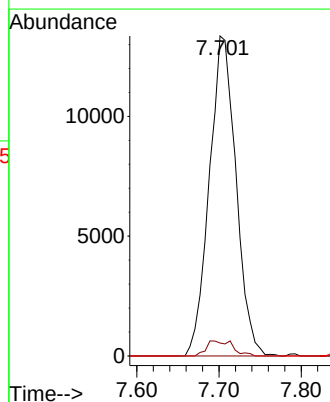
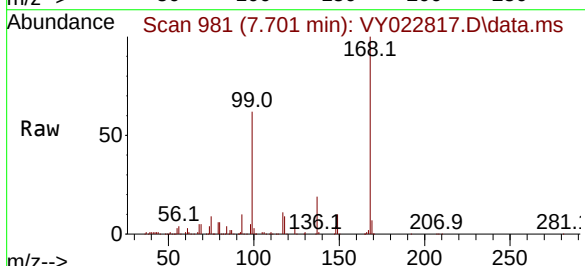
Tgt Ion: 117 Resp: 30176

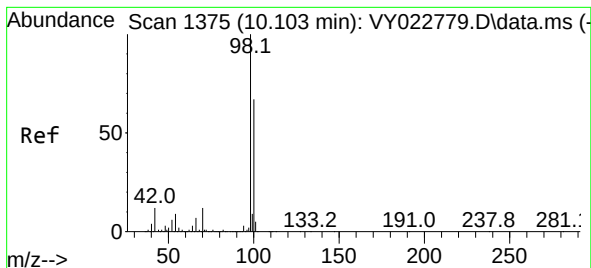
Ion Ratio Lower Upper

117 100

119 4.0 75.0 112.6#

121 0.0 25.0 37.4#

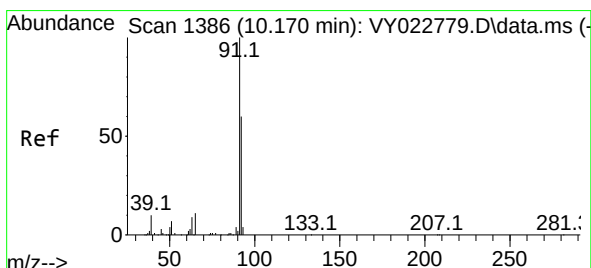
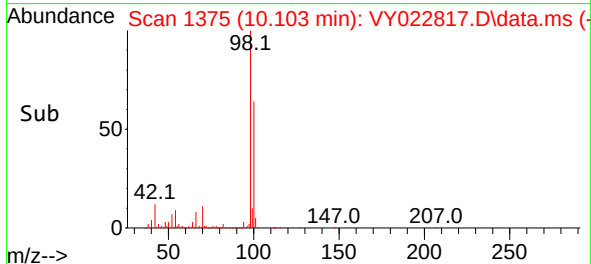
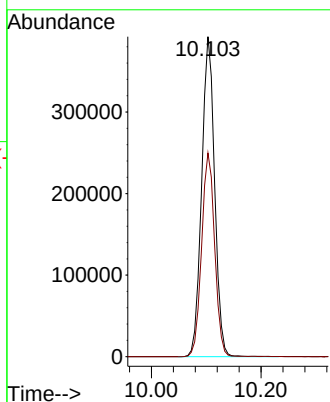
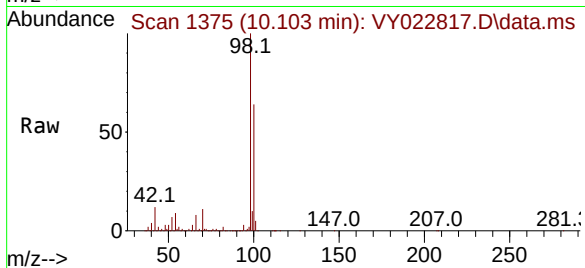




#50
Toluene-d8
Concen: 50.344 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

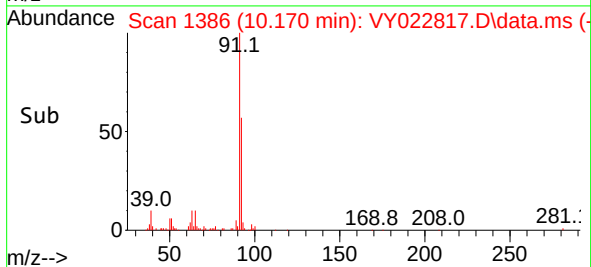
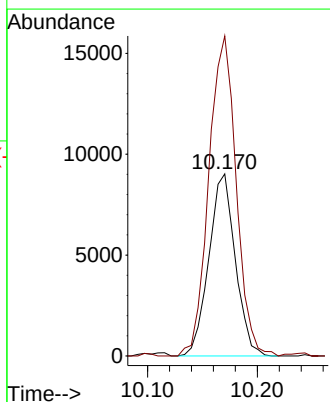
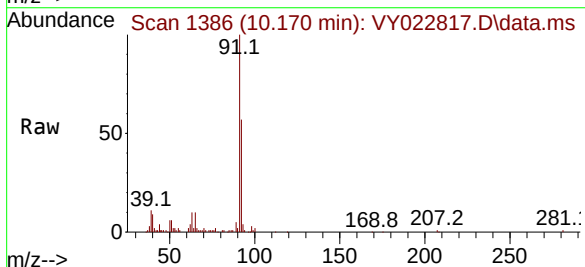
Instrument :
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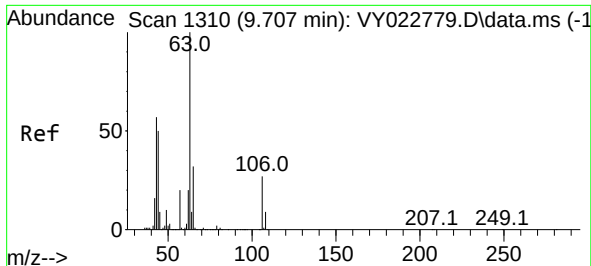
Tgt Ion: 98 Resp: 642210
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.0



#52
Toluene
Concen: 1.602 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

Tgt Ion: 92 Resp: 15139
Ion Ratio Lower Upper
92 100
91 182.1 139.0 208.4

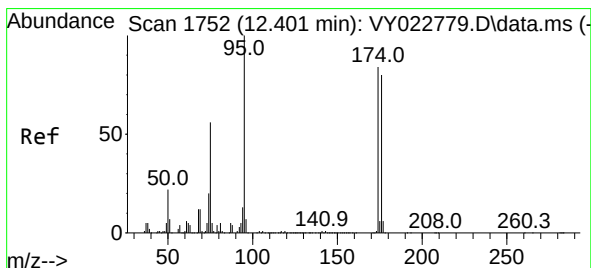
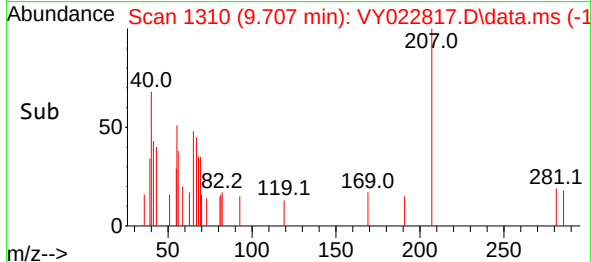
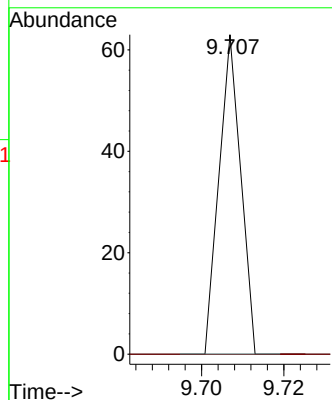
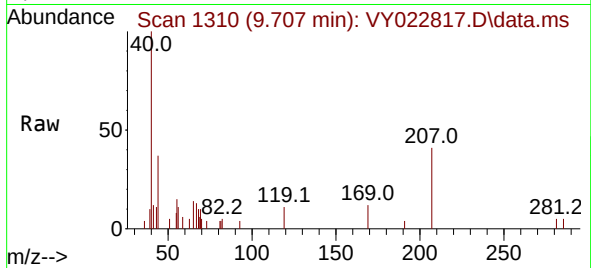




#58
2-Chloroethyl Vinyl ether
Concen: 15.667 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

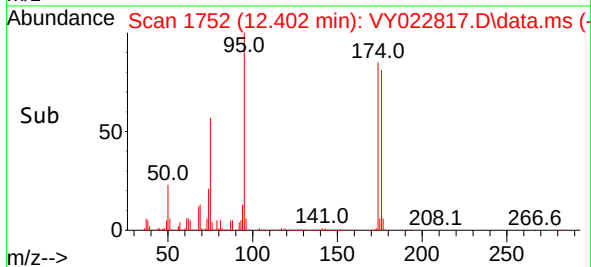
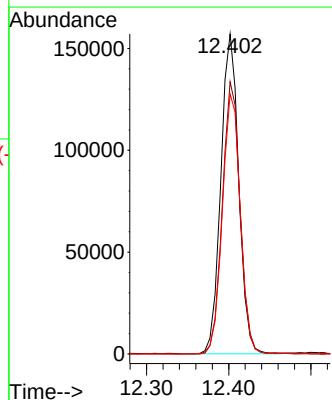
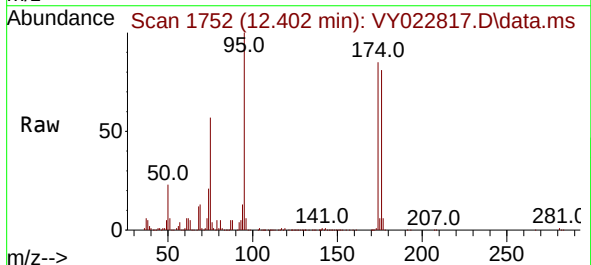
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

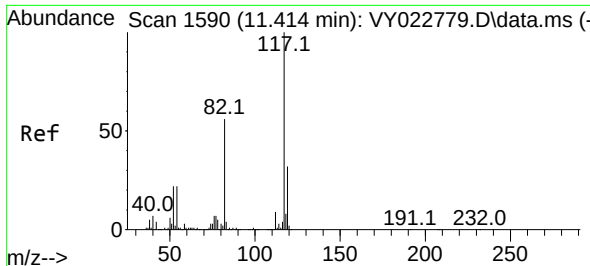
Tgt Ion: 63 Resp: 23
Ion Ratio Lower Upper
63 100
106 0.0 21.6 32.4#



#62
4-Bromofluorobenzene
Concen: 57.931 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

Tgt Ion: 95 Resp: 237563
Ion Ratio Lower Upper
95 100
174 84.4 0.0 170.0
176 81.4 0.0 166.2

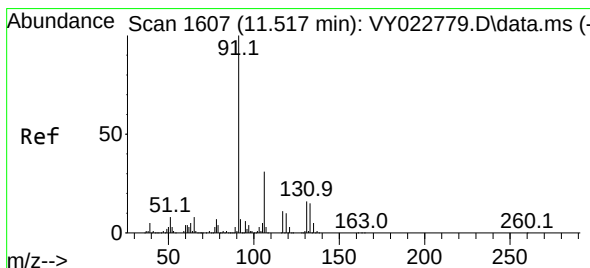
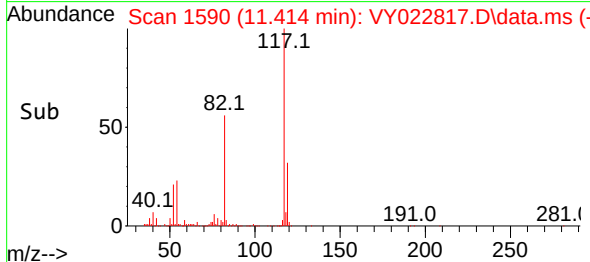
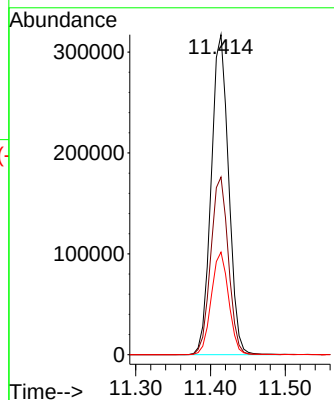
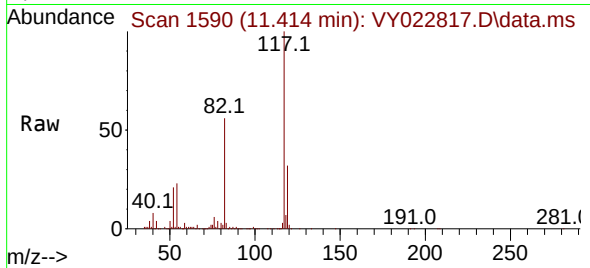




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.006 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

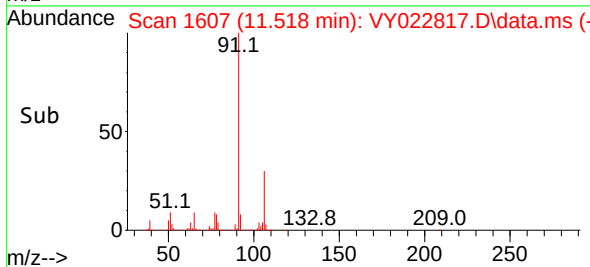
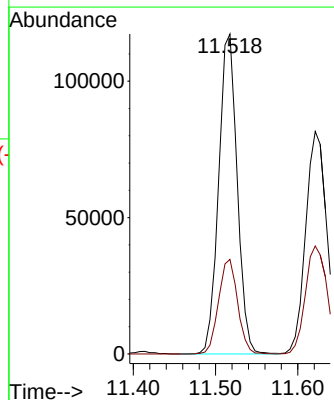
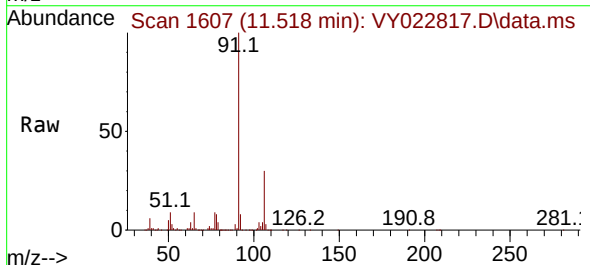
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

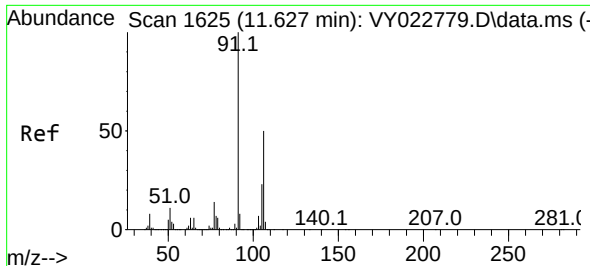
Tgt Ion:117 Resp: 513873
Ion Ratio Lower Upper
117 100
82 55.5 44.6 66.8
119 32.0 25.4 38.0



#67
Ethyl Benzene
Concen: 9.263 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

Tgt Ion: 91 Resp: 183765
Ion Ratio Lower Upper
91 100
106 29.6 24.2 36.4

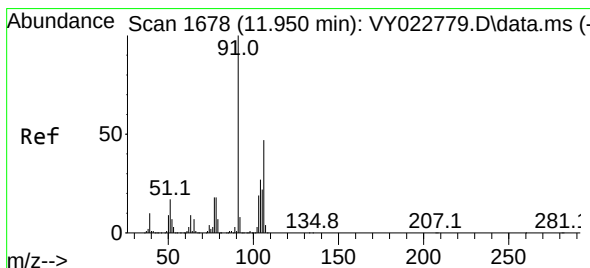
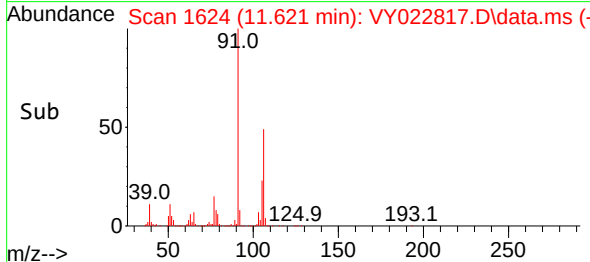
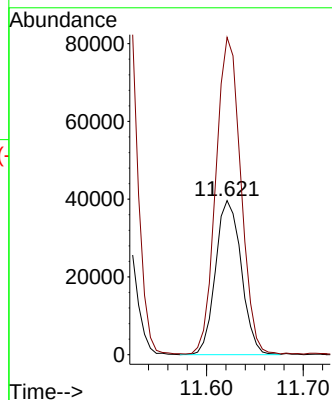
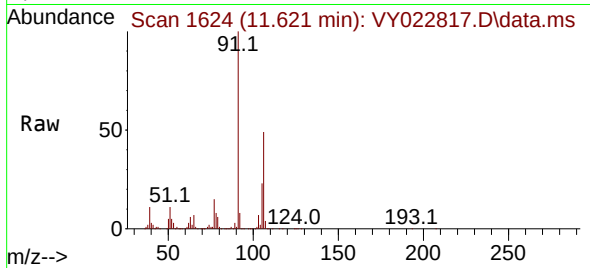




#68
m/p-Xylenes
Concen: 9.553 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.012 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

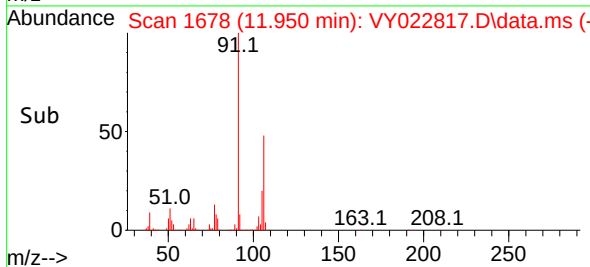
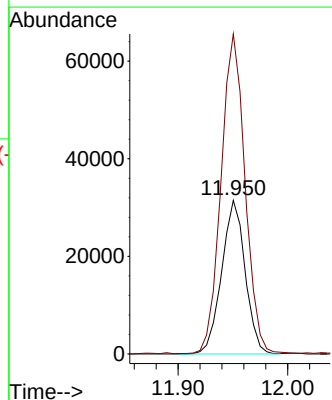
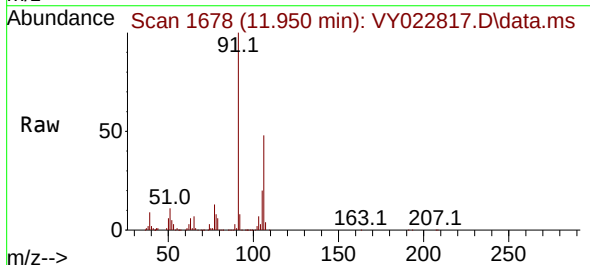
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

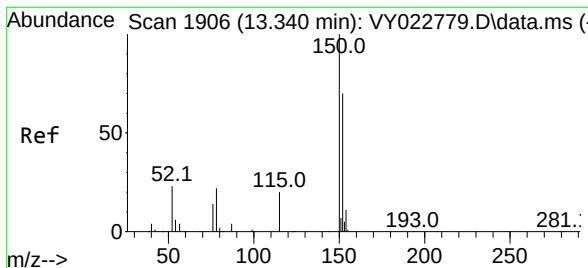
Tgt Ion:106 Resp: 73265
Ion Ratio Lower Upper
106 100
91 199.4 159.4 239.0



#69
o-Xylene
Concen: 6.482 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

Tgt Ion:106 Resp: 46842
Ion Ratio Lower Upper
106 100
91 212.1 105.8 317.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY022817.D

Acq: 25 Jun 2025 12:11

Instrument :

MSVOA_Y

ClientSampleId :

SU-1-062025

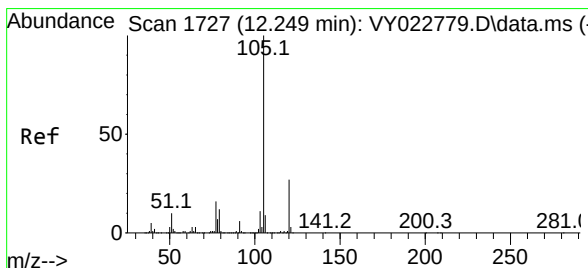
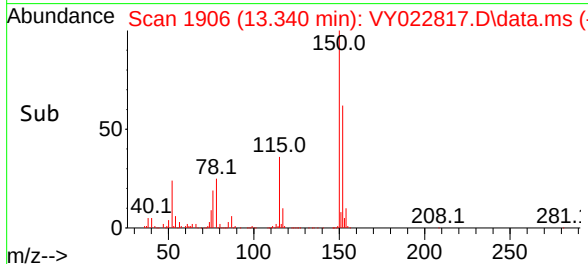
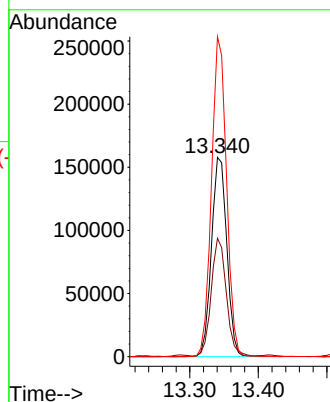
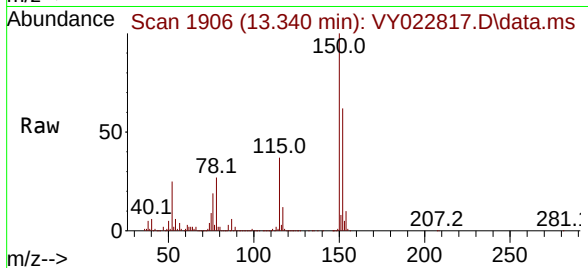
Tgt Ion:152 Resp: 246299

Ion Ratio Lower Upper

152 100

115 58.0 28.9 86.7

150 156.7 0.0 349.6



#73

Isopropylbenzene

Concen: 1.156 ug/l

RT: 12.249 min Scan# 1727

Delta R.T. -0.006 min

Lab File: VY022817.D

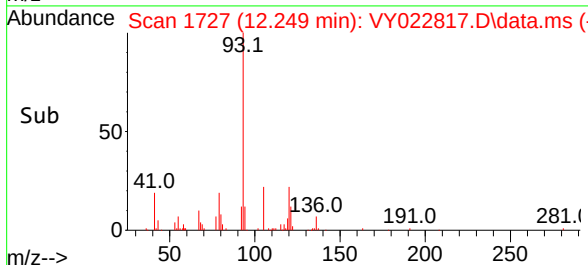
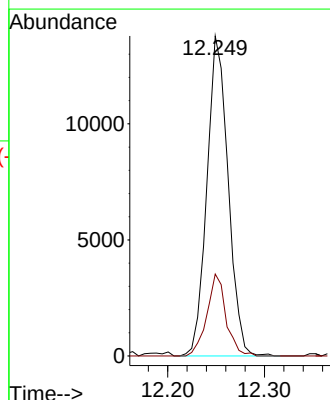
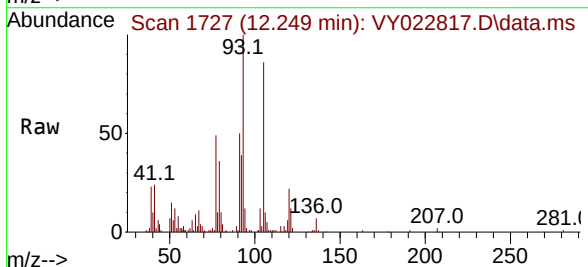
Acq: 25 Jun 2025 12:11

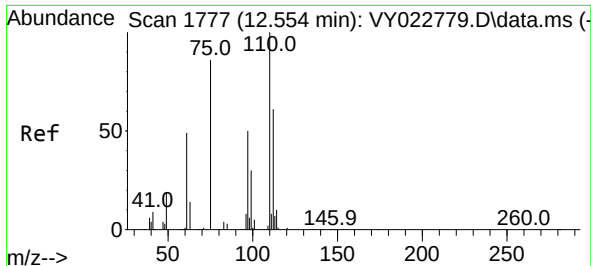
Tgt Ion:105 Resp: 21050

Ion Ratio Lower Upper

105 100

120 23.0 13.0 38.9

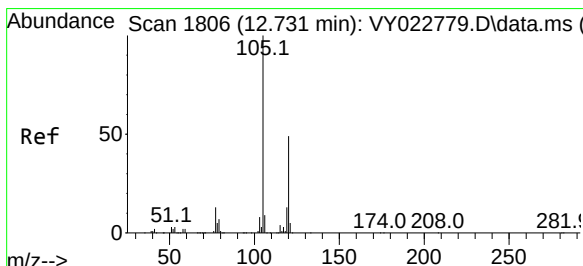
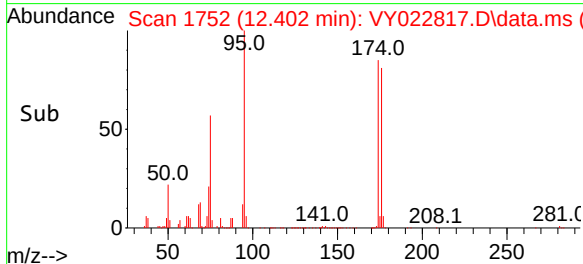
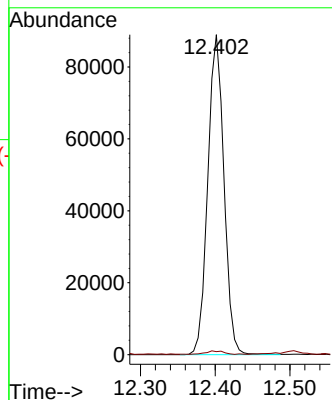
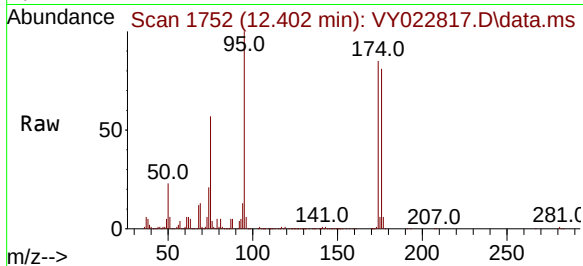




#76
 1,2,3-Trichloropropane
 Concen: 53.010 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. -0.152 min
 Lab File: VY022817.D
 Acq: 25 Jun 2025 12:11

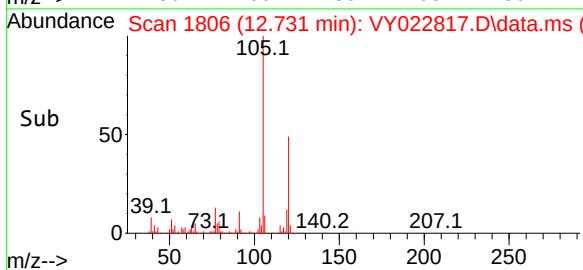
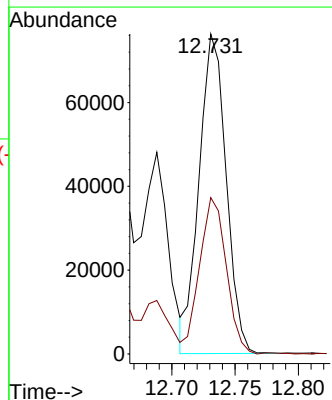
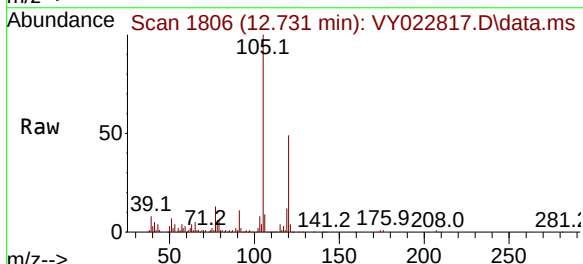
Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-1-062025

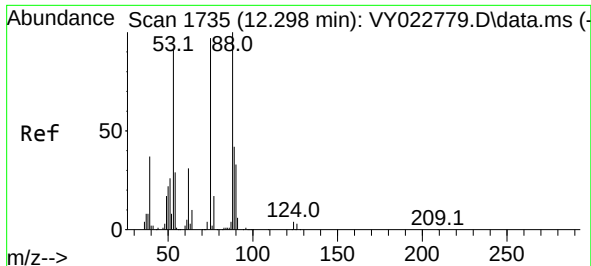
Tgt Ion: 75 Resp: 133294
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 7.709 ug/l
 RT: 12.731 min Scan# 1806
 Delta R.T. -0.006 min
 Lab File: VY022817.D
 Acq: 25 Jun 2025 12:11

Tgt Ion:105 Resp: 113353
 Ion Ratio Lower Upper
 105 100
 120 47.8 24.1 72.4

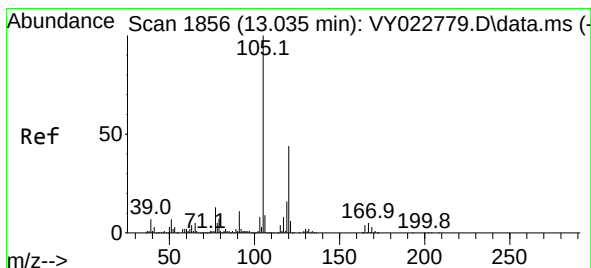
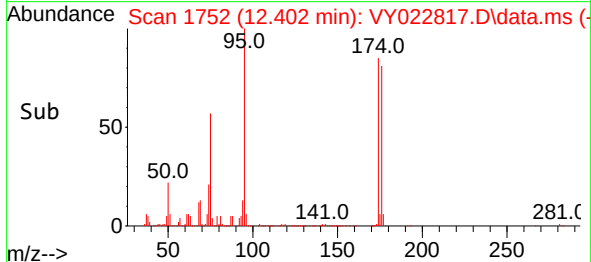
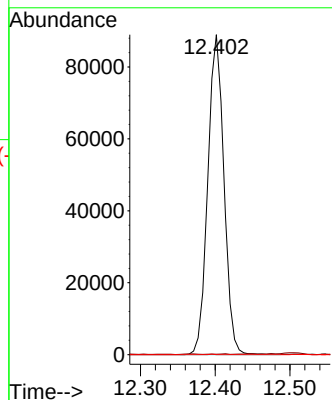
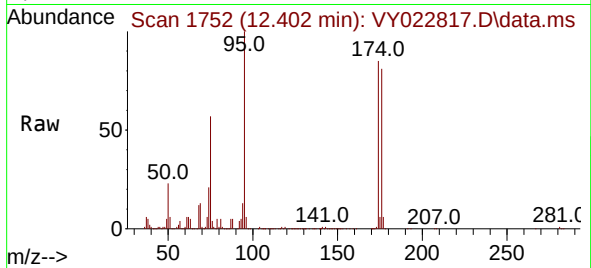




#81
trans-1,4-Dichloro-2-butene
Concen: 133.924 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.097 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

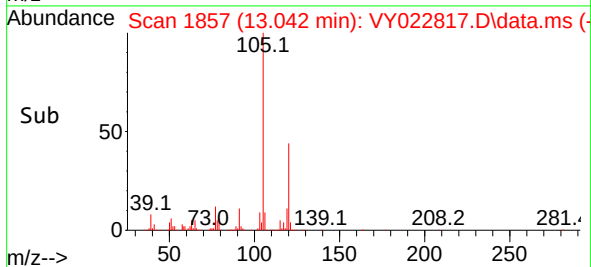
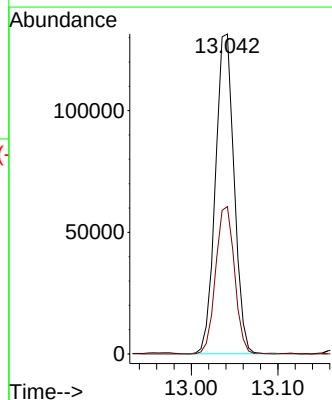
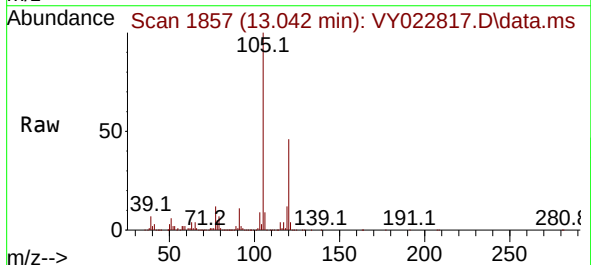
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

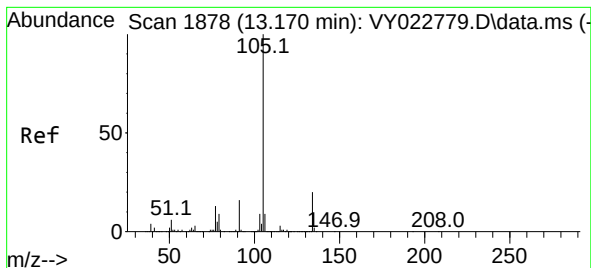
Tgt Ion: 75 Resp: 133294
Ion Ratio Lower Upper
75 100
53 0.3 78.5 117.7#
89 0.0 35.7 53.5#



#84
1,2,4-Trimethylbenzene
Concen: 13.393 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

Tgt Ion:105 Resp: 197173
Ion Ratio Lower Upper
105 100
120 46.5 22.7 68.1





#85

sec-Butylbenzene

Concen: 10.105 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. -0.134 min

Lab File: VY022817.D

Acq: 25 Jun 2025 12:11

Instrument :

MSVOA_Y

ClientSampleId :

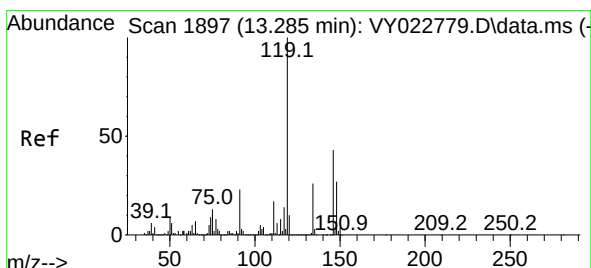
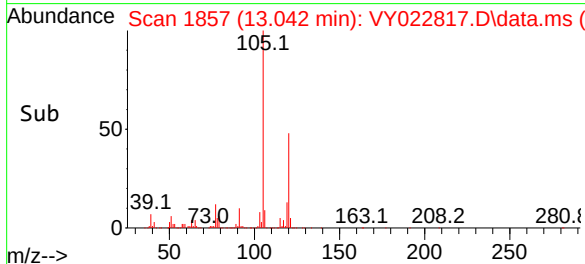
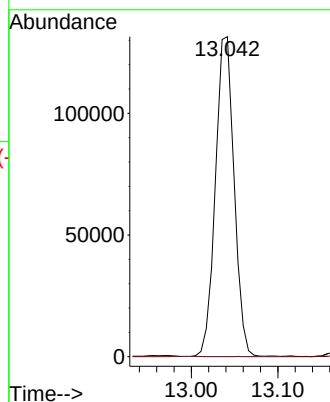
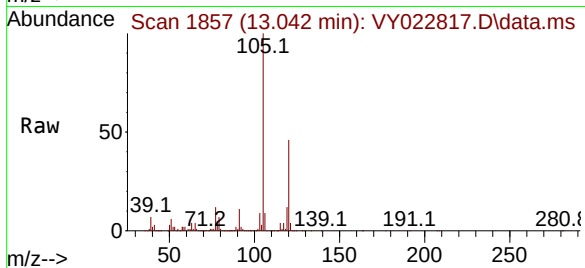
SU-1-062025

Tgt Ion:105 Resp: 197173

Ion Ratio Lower Upper

105 100

134 0.0 9.7 28.9#



#86

p-Isopropyltoluene

Concen: 1.499 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. -0.006 min

Lab File: VY022817.D

Acq: 25 Jun 2025 12:11

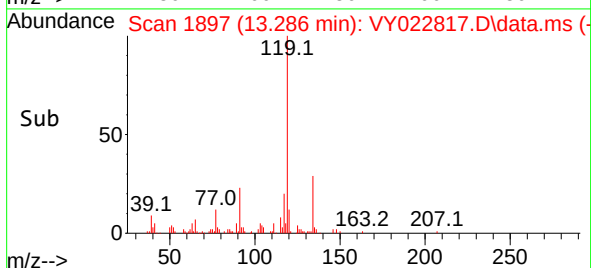
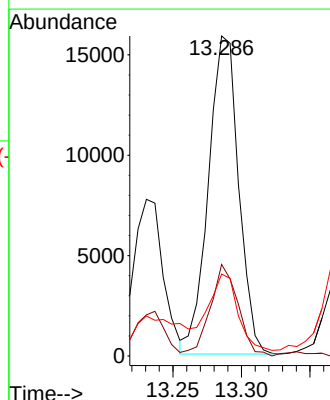
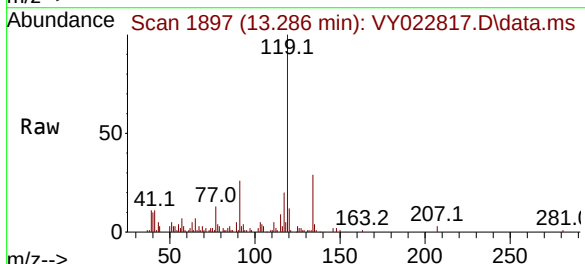
Tgt Ion:119 Resp: 24338

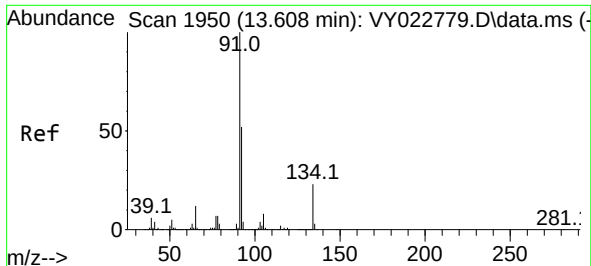
Ion Ratio Lower Upper

119 100

134 26.5 13.1 39.1

91 0.0 11.6 34.8#

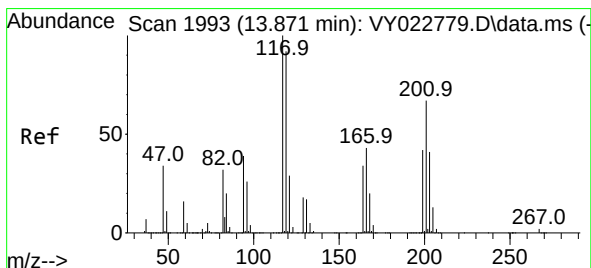
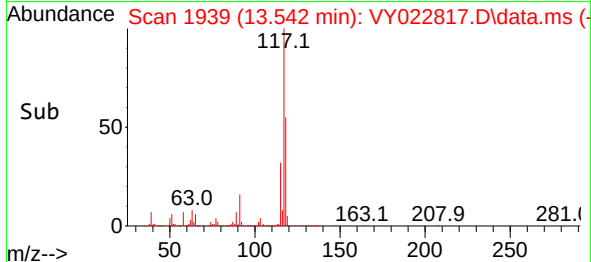
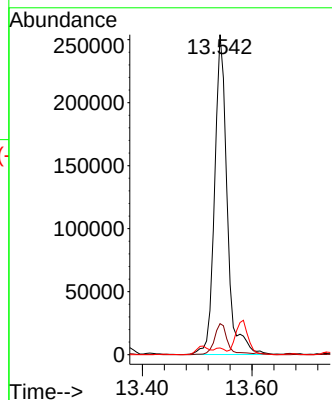
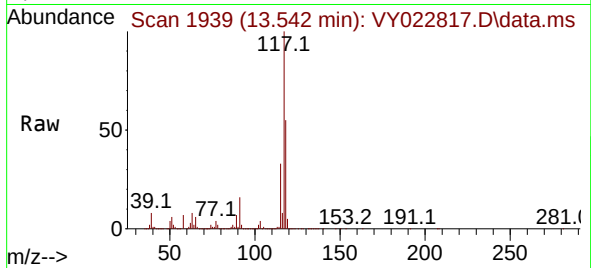




#89
n-Butylbenzene
Concen: 26.391 ug/l
RT: 13.542 min Scan# 1950
Delta R.T. -0.079 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

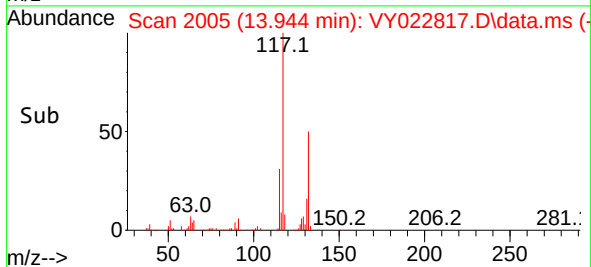
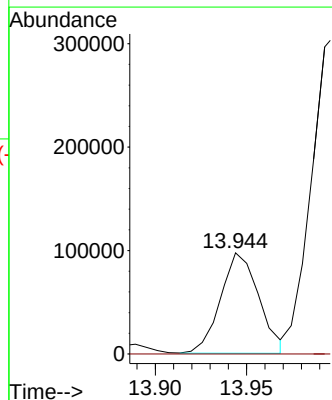
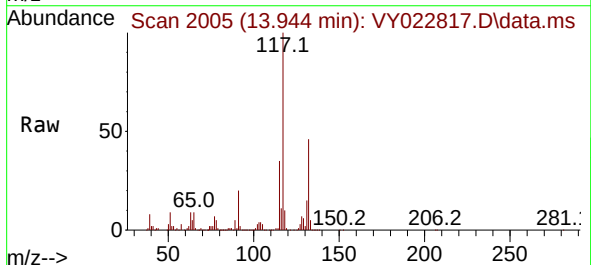
Instrument :
MSVOA_Y
ClientSampleId :
SU-1-062025

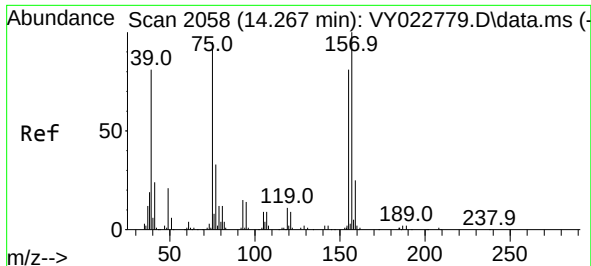
Tgt Ion: 91 Resp: 403085
Ion Ratio Lower Upper
91 100
92 10.2 25.9 77.8#
134 0.6 12.0 36.1#



#90
Hexachloroethane
Concen: 43.795 ug/l
RT: 13.944 min Scan# 2005
Delta R.T. 0.061 min
Lab File: VY022817.D
Acq: 25 Jun 2025 12:11

Tgt Ion: 117 Resp: 141632
Ion Ratio Lower Upper
117 100
201 0.0 34.0 102.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 8.930 ug/l

RT: 14.279 min Scan# 2058

Delta R.T. 0.006 min

Lab File: VY022817.D

Acq: 25 Jun 2025 12:11

Instrument :

MSVOA_Y

ClientSampleId :

SU-1-062025

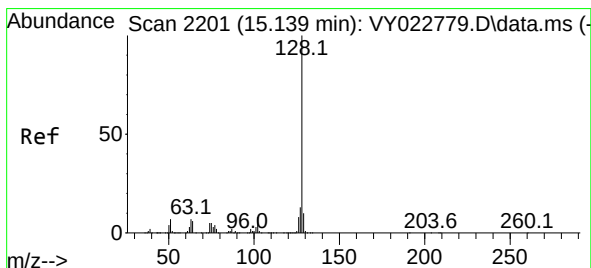
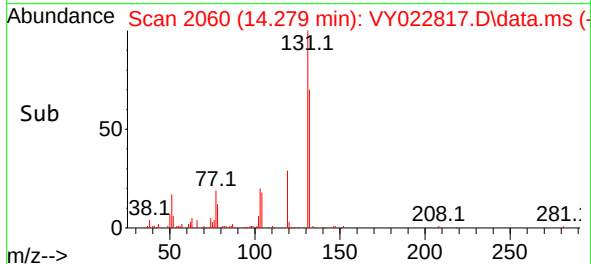
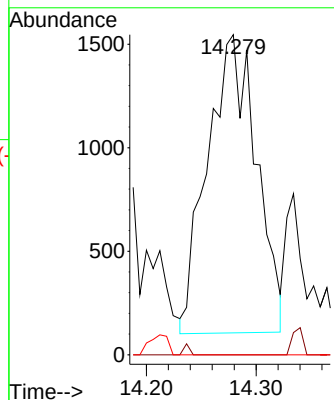
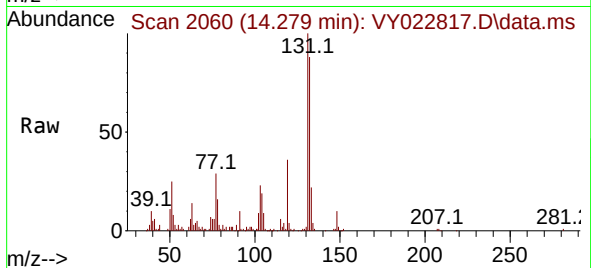
Tgt Ion: 75 Resp: 4446

Ion Ratio Lower Upper

75 100

155 0.0 39.9 119.6#

157 0.0 54.0 162.0#



#95

Naphthalene

Concen: 124.830 ug/l

RT: 15.139 min Scan# 2201

Delta R.T. -0.006 min

Lab File: VY022817.D

Acq: 25 Jun 2025 12:11

Tgt Ion: 128 Resp: 931358

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 11.1 8.9 13.3

