

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062725\  
 Data File : VY022856.D  
 Acq On : 27 Jun 2025 12:59  
 Operator : SY/MD  
 Sample : Q2436-01  
 Misc : 7.07g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-70

Quant Time: Jun 27 23:16:54 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

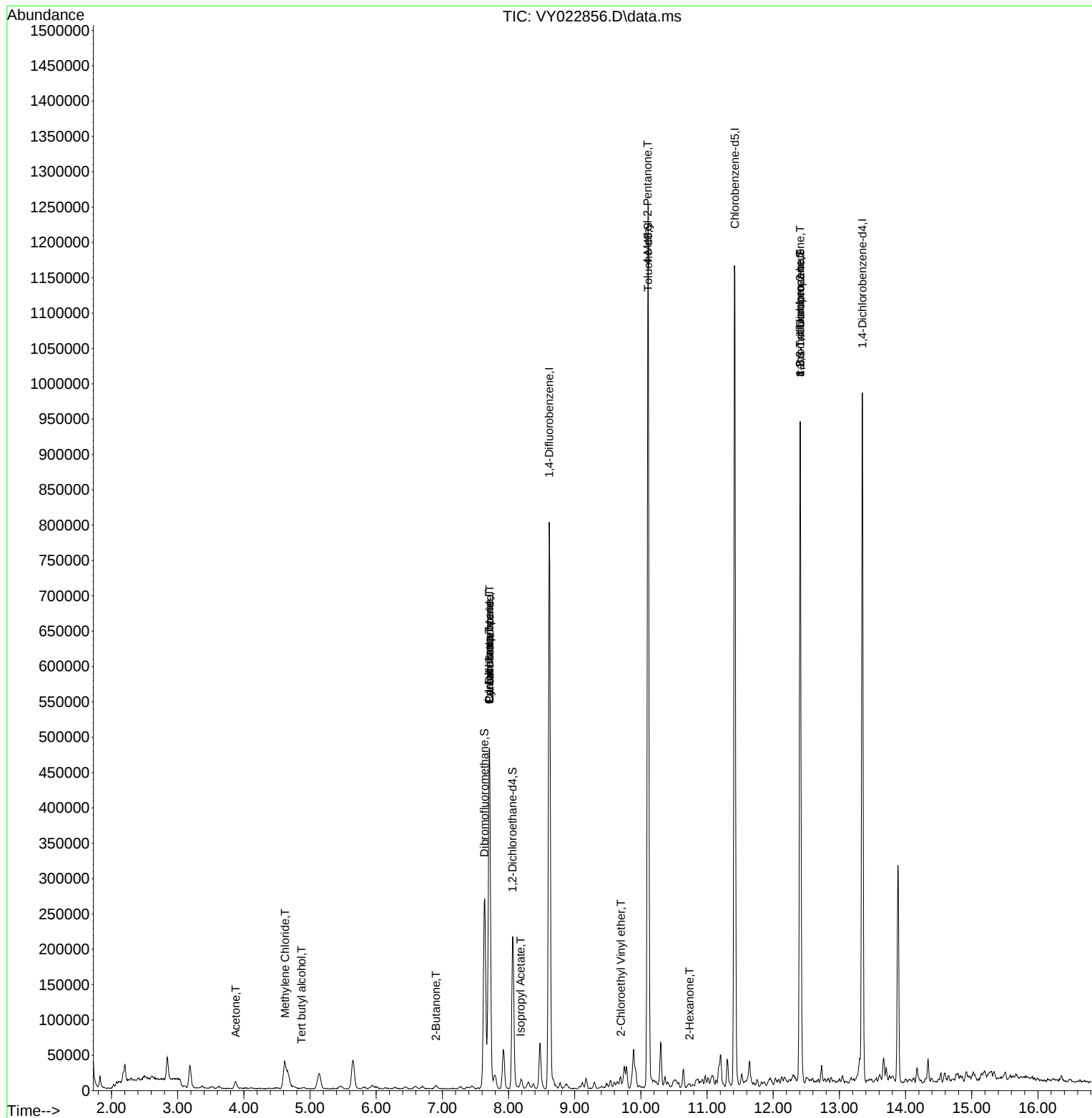
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 7.713  | 168   | 370411   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616  | 114   | 661194   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.420 | 117   | 597332   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.347 | 152   | 238564   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.061  | 65    | 173351   | 41.931   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | =      | 83.860%  |
| 35) Dibromofluoromethane      | 7.634  | 113   | 192063   | 47.764   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | =      | 95.520%  |
| 50) Toluene-d8                | 10.109 | 98    | 786805   | 49.310   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | =      | 98.620%  |
| 62) 4-Bromofluorobenzene      | 12.408 | 95    | 254665   | 49.648   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | =      | 99.300%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 4.873  | 59    | 392      | 1.426    | ug/l # | 73       |
| 16) Acetone                   | 3.879  | 43    | 16798    | 21.498   | ug/l # | 85       |
| 20) Methylene Chloride        | 4.623  | 84    | 23678    | 4.798    | ug/l   | 97       |
| 25) 2-Butanone                | 6.903  | 43    | 5017     | 4.412    | ug/l # | 81       |
| 31) Cyclohexane               | 7.707  | 56    | 14083    | 1.983    | ug/l # | 36       |
| 36) 1,1-Dichloropropene       | 7.707  | 75    | 31511    | 5.170    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.713  | 117   | 37726    | 5.866    | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.183  | 43    | 6117     | 1.119    | ug/l # | 62       |
| 51) 4-Methyl-2-Pentanone      | 10.103 | 43    | 3234     | 1.164    | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether | 9.701  | 63    | 128      | 15.708   | ug/l # | 48       |
| 59) 2-Hexanone                | 10.737 | 43    | 2253     | 1.193    | ug/l # | 24       |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75    | 144047   | 59.144   | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75    | 144047   | 149.421  | ug/l # | 11       |
| -----                         |        |       |          |          |        |          |

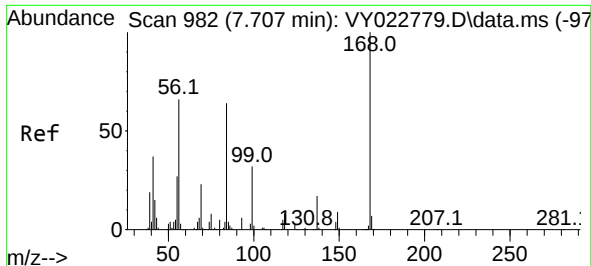
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : Q2436-01  
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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-70

Quant Time: Jun 27 23:16:54 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

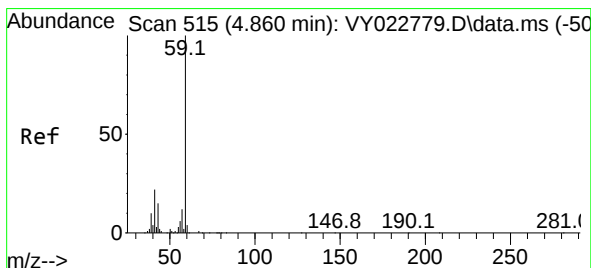
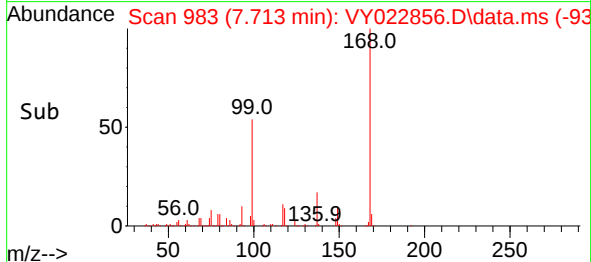
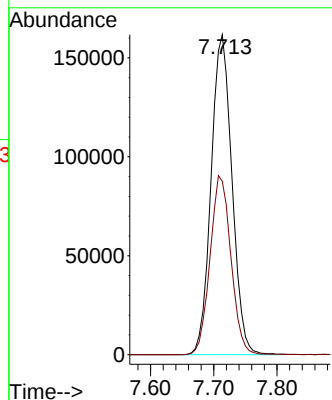
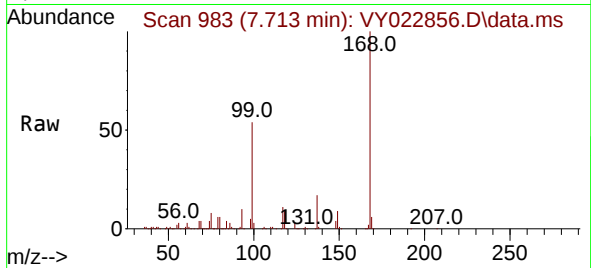




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

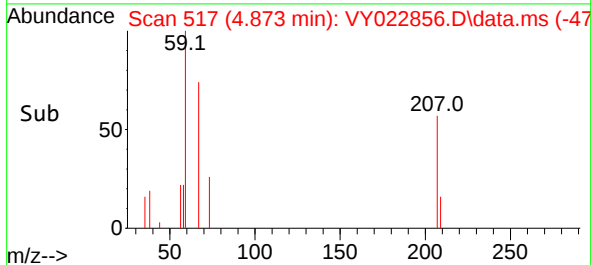
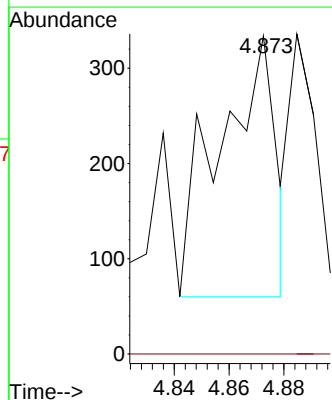
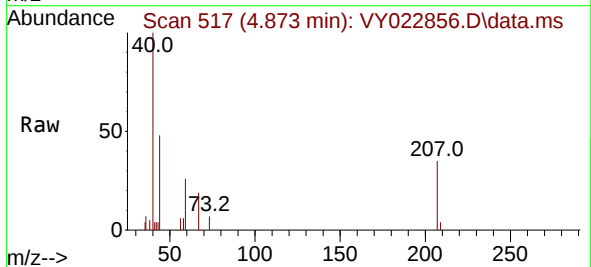
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-70

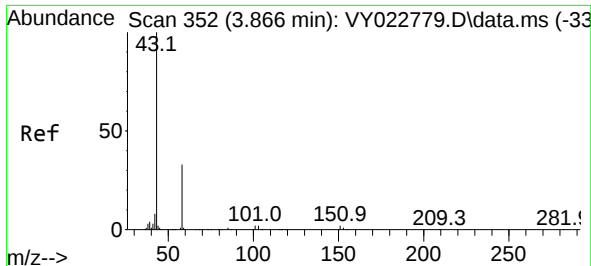
Tgt Ion:168 Resp: 370411  
Ion Ratio Lower Upper  
168 100  
99 54.2 44.3 66.5



#11  
Tert butyl alcohol  
Concen: 1.426 ug/l  
RT: 4.873 min Scan# 517  
Delta R.T. -0.012 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

Tgt Ion: 59 Resp: 392  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#

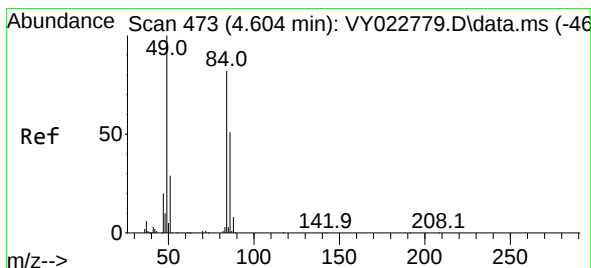
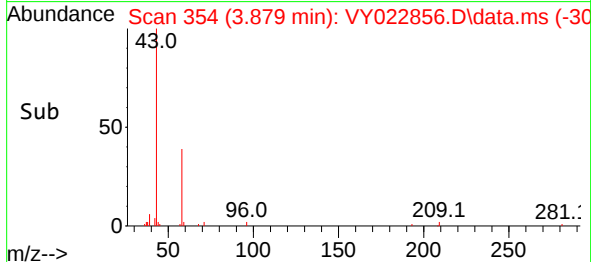
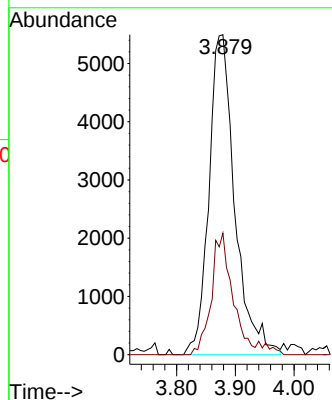
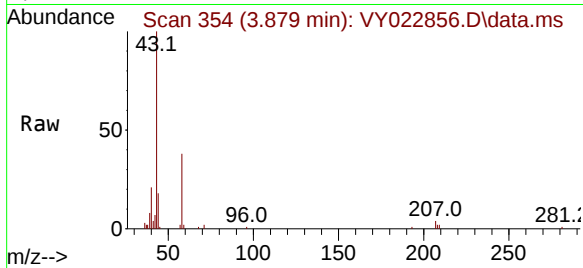




#16  
Acetone  
Concen: 21.498 ug/l  
RT: 3.879 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

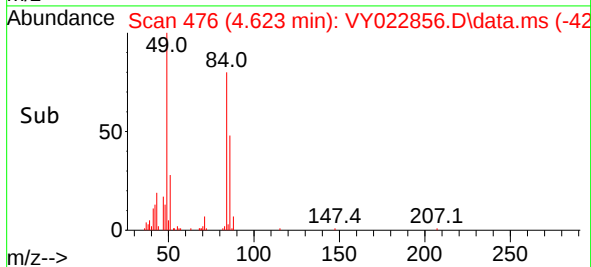
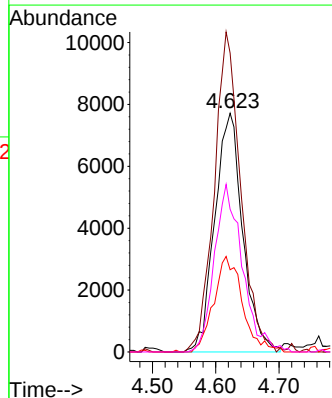
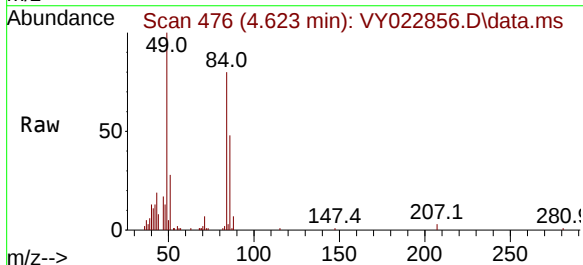
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-70

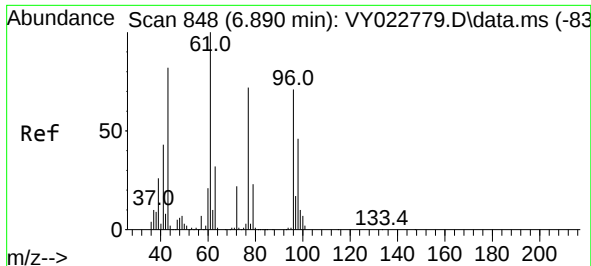
Tgt Ion: 43 Resp: 16798  
Ion Ratio Lower Upper  
43 100  
58 38.0 24.0 36.0#



#20  
Methylene Chloride  
Concen: 4.798 ug/l  
RT: 4.623 min Scan# 476  
Delta R.T. 0.000 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

Tgt Ion: 84 Resp: 23678  
Ion Ratio Lower Upper  
84 100  
49 125.2 101.9 152.9  
51 34.5 29.8 44.8  
86 59.8 51.3 76.9





#25

2-Butanone

Concen: 4.412 ug/l

RT: 6.903 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY022856.D

Acq: 27 Jun 2025 12:59

Instrument :

MSVOA\_Y

ClientSampleId :

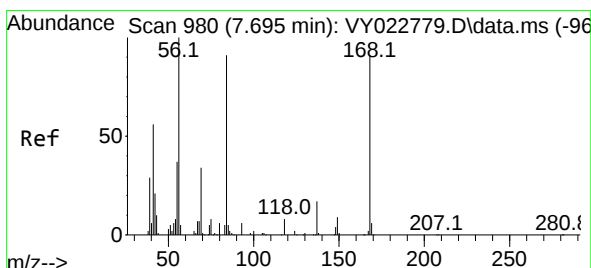
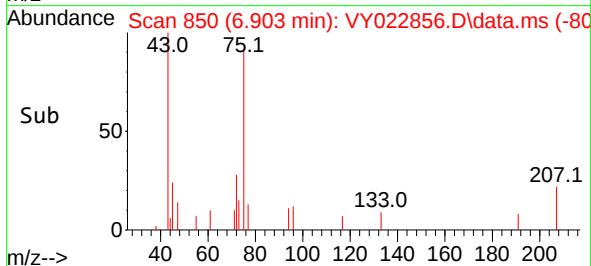
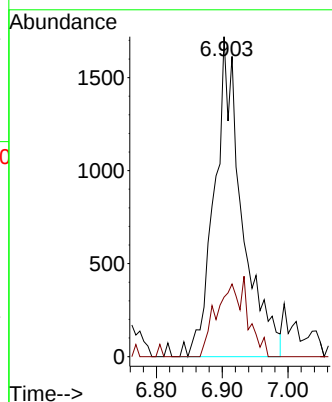
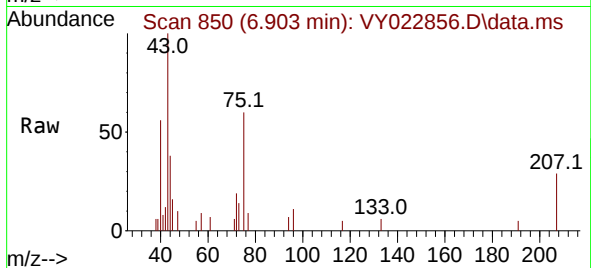
TP-70

Tgt Ion: 43 Resp: 5017

Ion Ratio Lower Upper

43 100

72 18.6 22.9 34.3#



#31

Cyclohexane

Concen: 1.983 ug/l

RT: 7.707 min Scan# 982

Delta R.T. 0.000 min

Lab File: VY022856.D

Acq: 27 Jun 2025 12:59

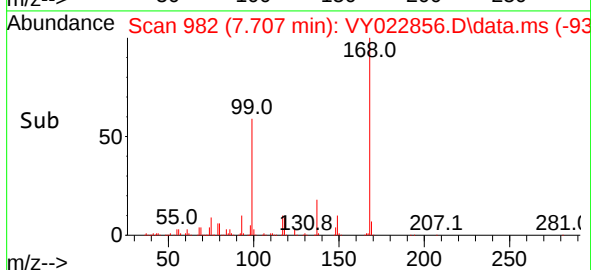
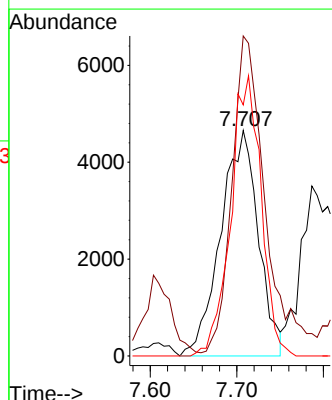
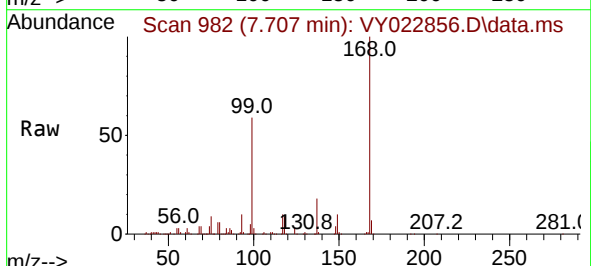
Tgt Ion: 56 Resp: 14083

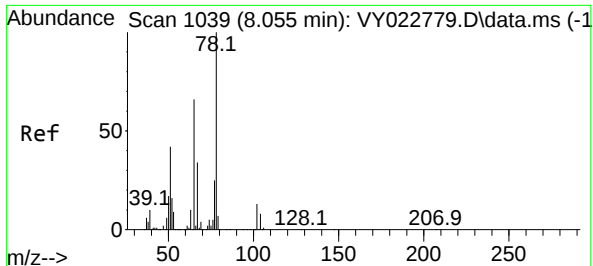
Ion Ratio Lower Upper

56 100

69 134.9 27.0 40.6#

84 111.3 72.6 109.0#





#33

1,2-Dichloroethane-d4

Concen: 41.931 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY022856.D

Acq: 27 Jun 2025 12:59

Instrument :

MSVOA\_Y

ClientSampleId :

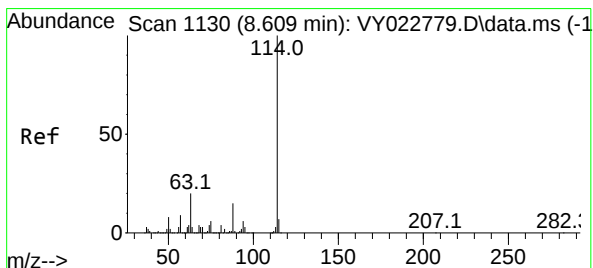
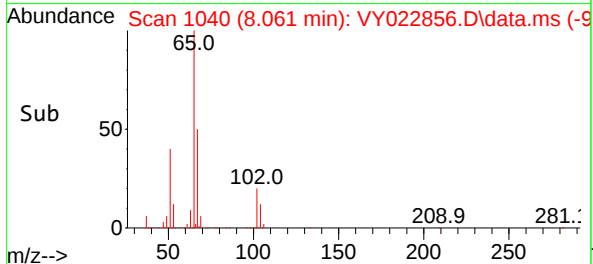
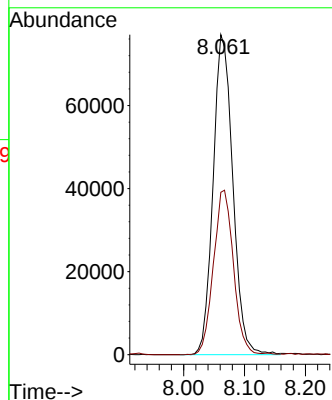
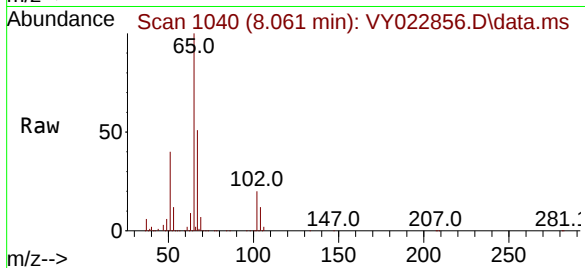
TP-70

Tgt Ion: 65 Resp: 173351

Ion Ratio Lower Upper

65 100

67 52.1 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022856.D

Acq: 27 Jun 2025 12:59

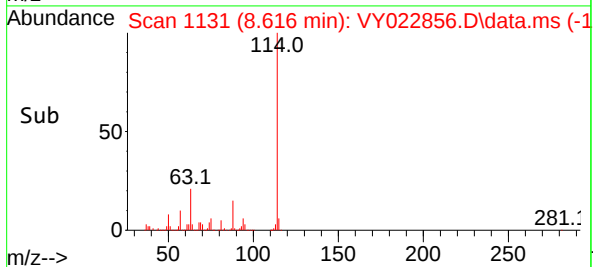
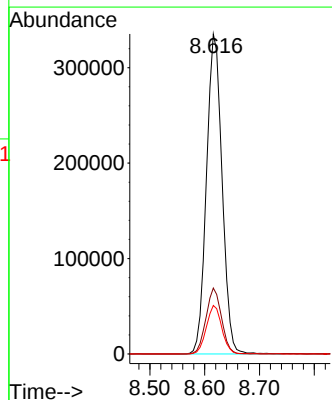
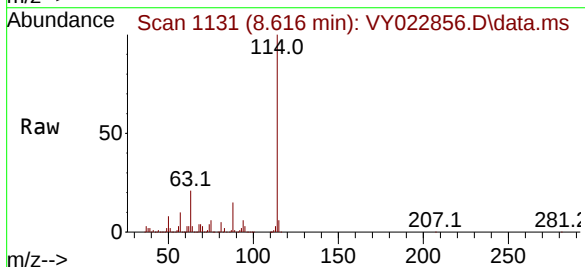
Tgt Ion:114 Resp: 661194

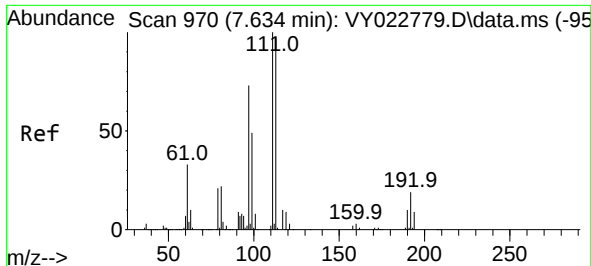
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 15.2 0.0 27.8

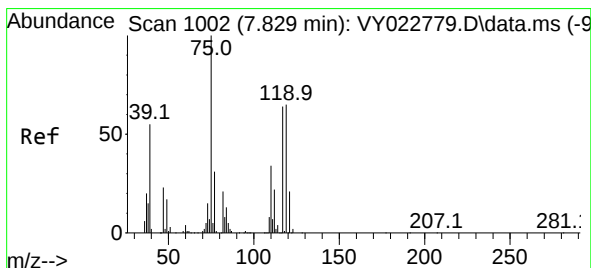
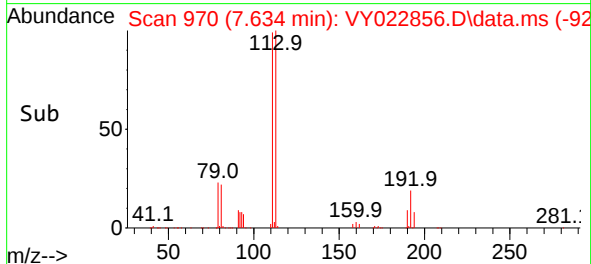
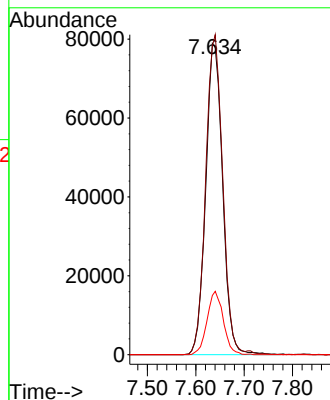
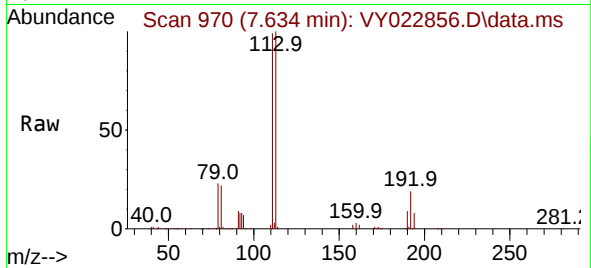




#35  
Dibromofluoromethane  
Concen: 47.764 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

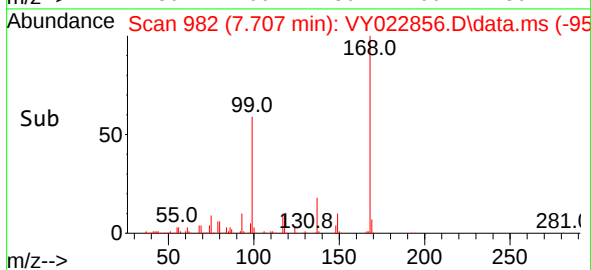
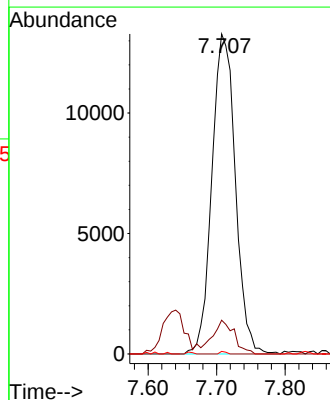
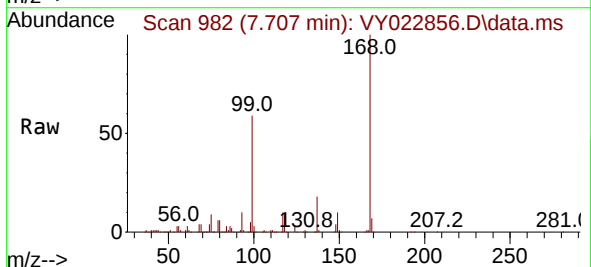
Instrument :  
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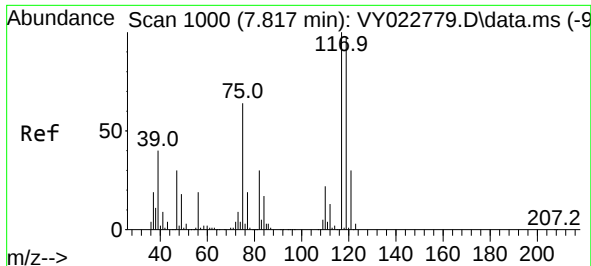
Tgt Ion:113 Resp: 192063  
Ion Ratio Lower Upper  
113 100  
111 103.3 81.1 121.7  
192 19.5 14.2 21.2



#36  
1,1-Dichloropropene  
Concen: 5.170 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. -0.134 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

Tgt Ion: 75 Resp: 31511  
Ion Ratio Lower Upper  
75 100  
110 9.6 16.9 50.7#  
77 0.2 24.8 37.2#

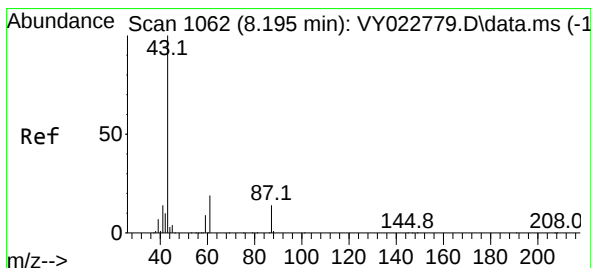
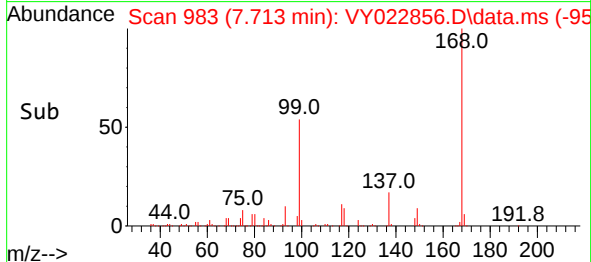
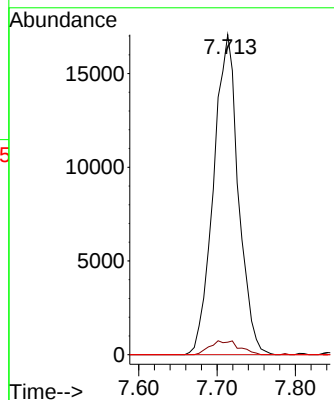
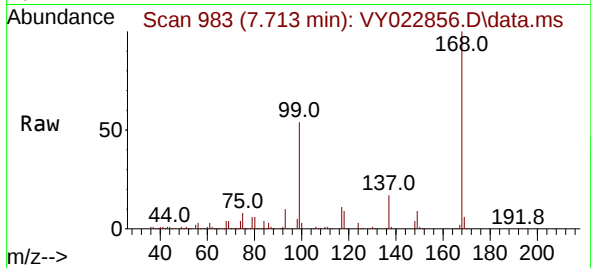




#38  
Carbon Tetrachloride  
Concen: 5.866 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

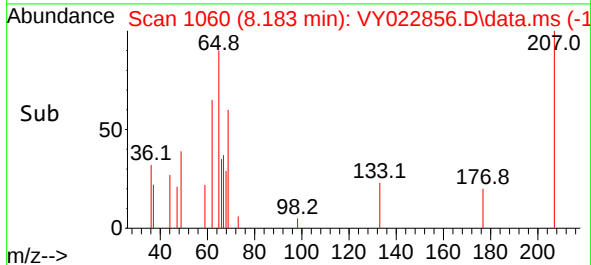
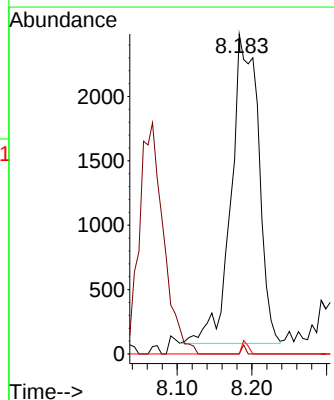
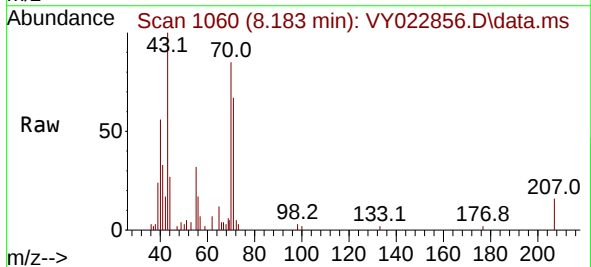
Instrument :  
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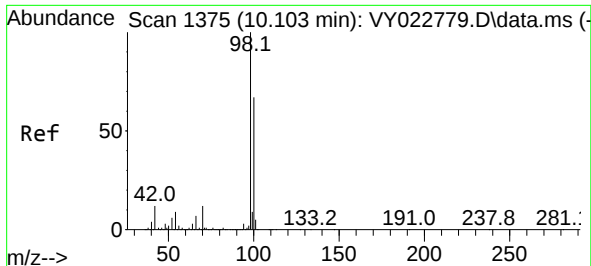
Tgt Ion:117 Resp: 37726  
Ion Ratio Lower Upper  
117 100  
119 3.9 75.0 112.6#  
121 0.0 25.0 37.4#



#43  
Isopropyl Acetate  
Concen: 1.119 ug/l  
RT: 8.183 min Scan# 1060  
Delta R.T. -0.018 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

Tgt Ion: 43 Resp: 6117  
Ion Ratio Lower Upper  
43 100  
61 0.0 15.6 23.4#  
87 1.0 10.2 15.4#

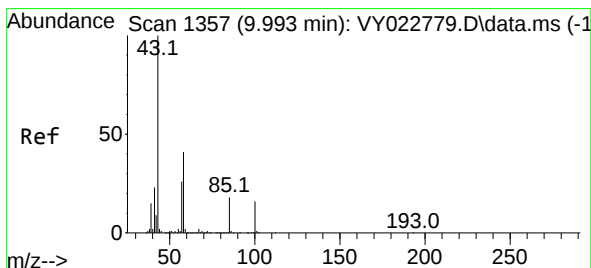
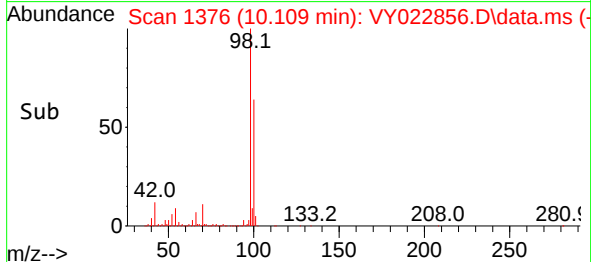
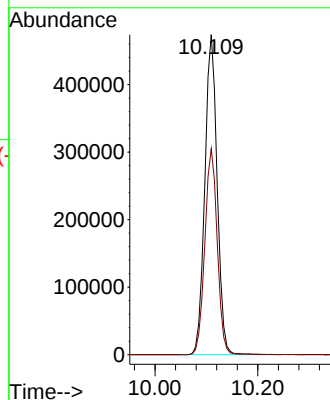
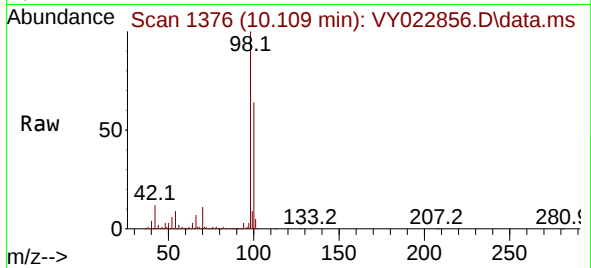




#50  
Toluene-d8  
Concen: 49.310 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.000 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

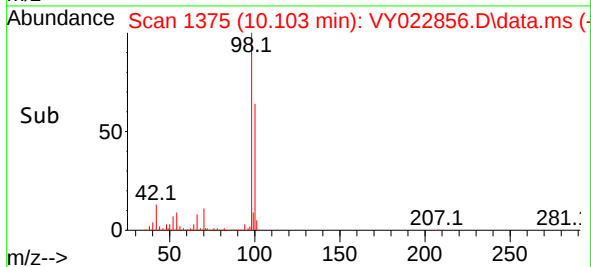
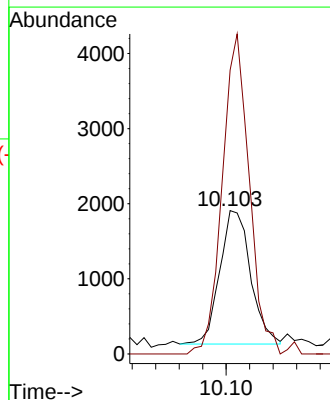
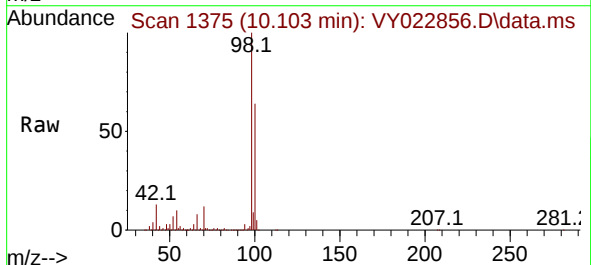
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-70

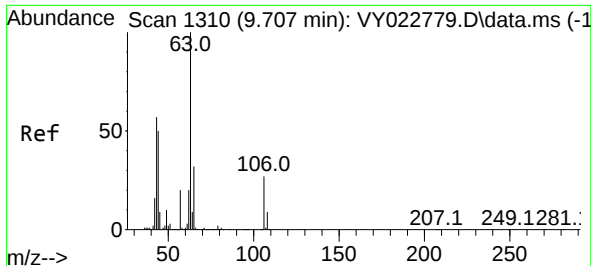
Tgt Ion: 98 Resp: 786805  
Ion Ratio Lower Upper  
98 100  
100 64.8 51.4 77.0



#51  
4-Methyl-2-Pentanone  
Concen: 1.164 ug/l  
RT: 10.103 min Scan# 1375  
Delta R.T. 0.104 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

Tgt Ion: 43 Resp: 3234  
Ion Ratio Lower Upper  
43 100  
58 210.9 30.4 45.6#

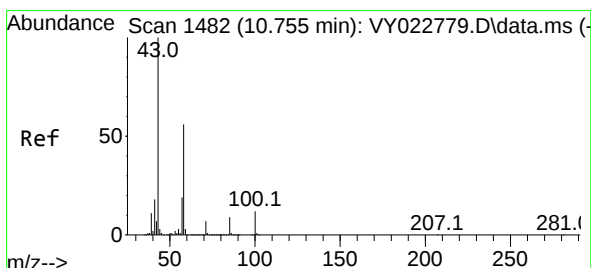
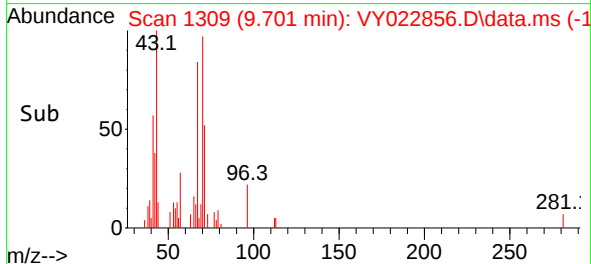
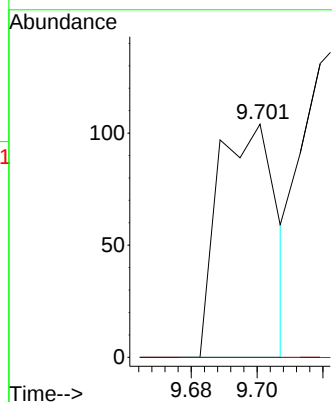
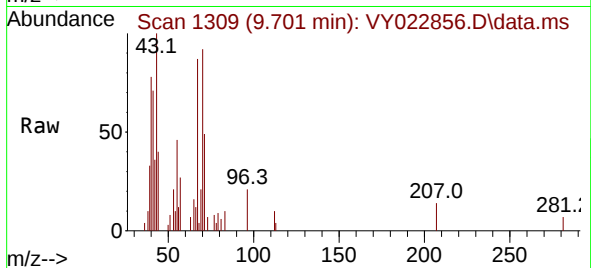




#58  
2-Chloroethyl Vinyl ether  
Concen: 15.708 ug/l  
RT: 9.701 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

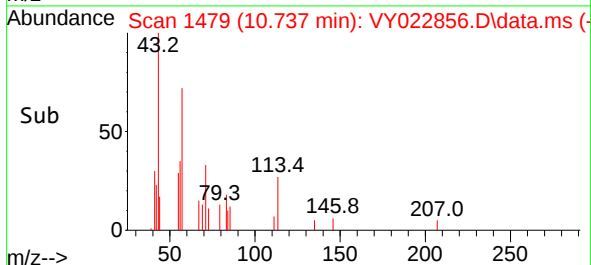
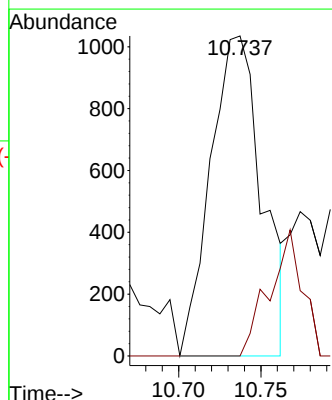
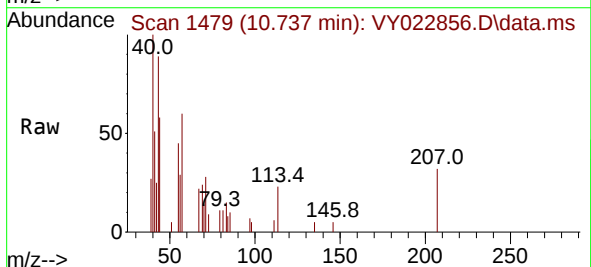
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-70

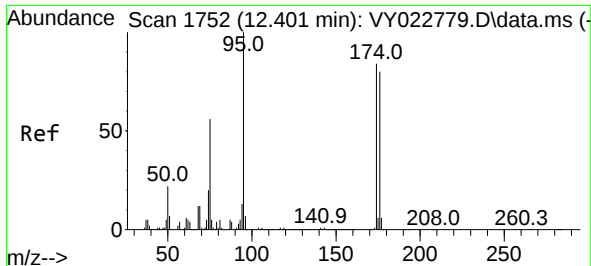
Tgt Ion: 63 Resp: 128  
Ion Ratio Lower Upper  
63 100  
106 0.0 21.6 32.4#



#59  
2-Hexanone  
Concen: 1.193 ug/l  
RT: 10.737 min Scan# 1479  
Delta R.T. -0.024 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

Tgt Ion: 43 Resp: 2253  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.3 81.8#

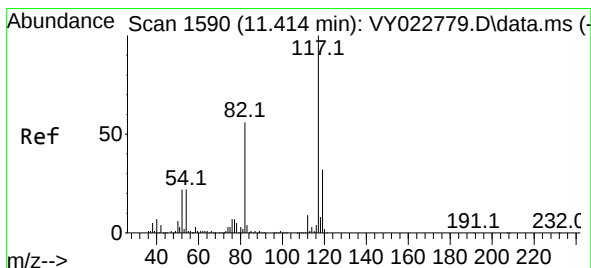
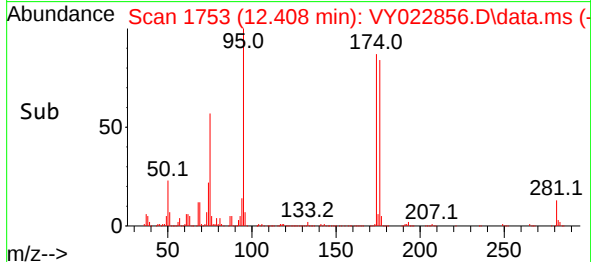
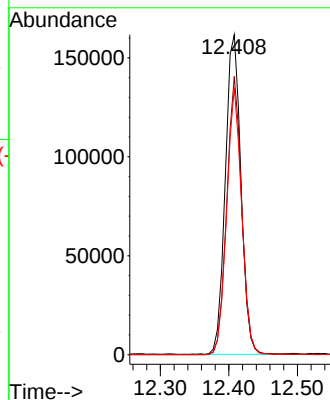
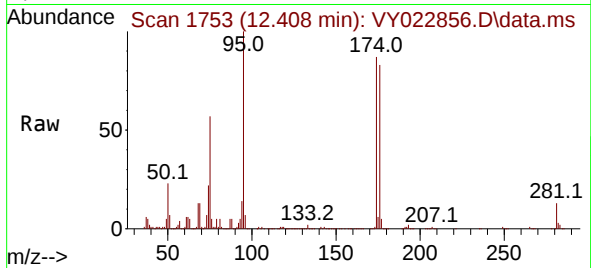




#62  
4-Bromofluorobenzene  
Concen: 49.648 ug/l  
RT: 12.408 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

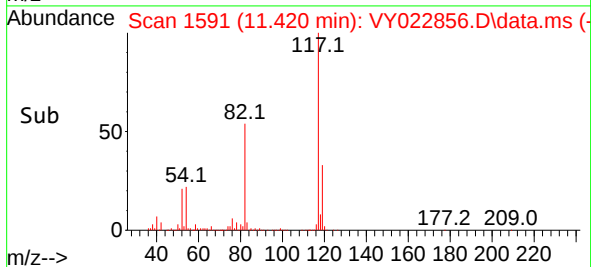
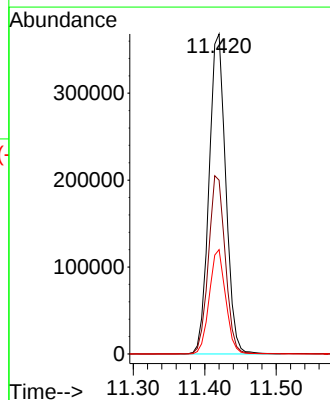
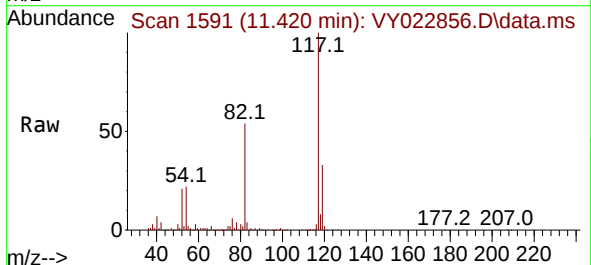
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-70

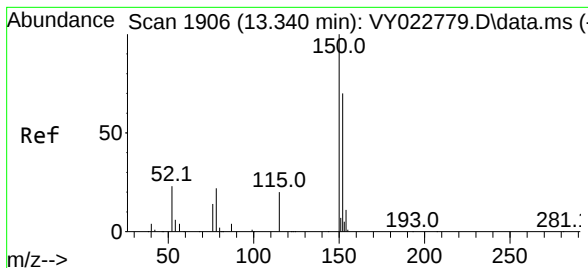
Tgt Ion: 95 Resp: 254665  
Ion Ratio Lower Upper  
95 100  
174 83.6 0.0 170.0  
176 80.3 0.0 166.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.000 min  
Lab File: VY022856.D  
Acq: 27 Jun 2025 12:59

Tgt Ion: 117 Resp: 597332  
Ion Ratio Lower Upper  
117 100  
82 54.2 44.6 66.8  
119 32.6 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY022856.D

Acq: 27 Jun 2025 12:59

Instrument :

MSVOA\_Y

ClientSampleId :

TP-70

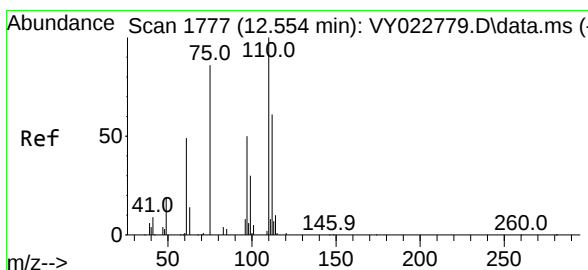
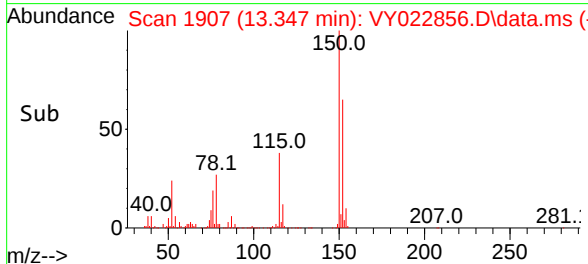
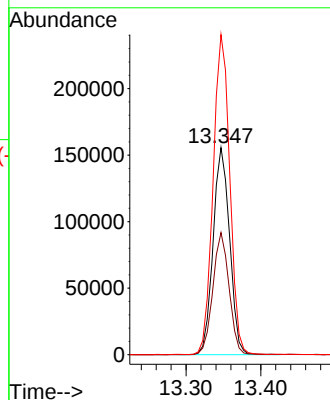
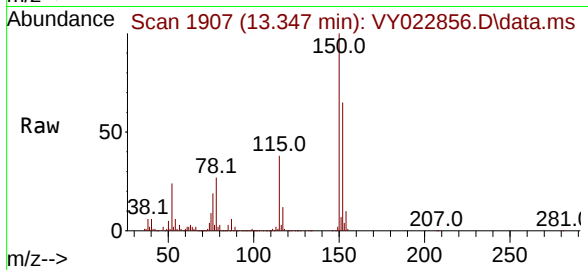
Tgt Ion:152 Resp: 238564

Ion Ratio Lower Upper

152 100

115 57.9 28.9 86.7

150 155.7 0.0 349.6



#76

1,2,3-Trichloropropane

Concen: 59.144 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY022856.D

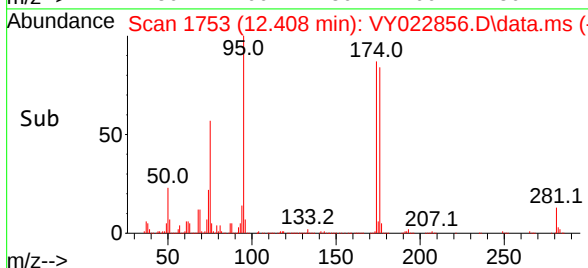
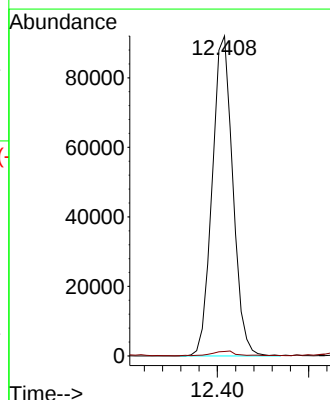
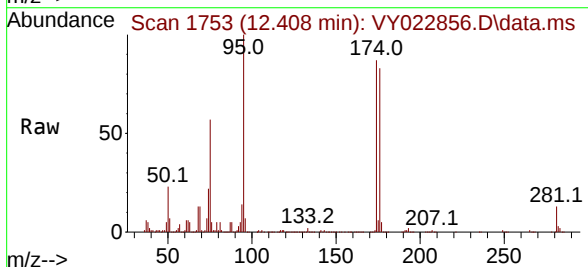
Acq: 27 Jun 2025 12:59

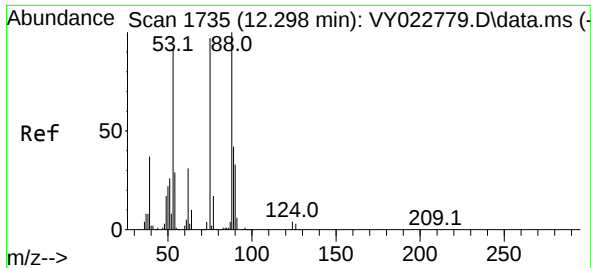
Tgt Ion: 75 Resp: 144047

Ion Ratio Lower Upper

75 100

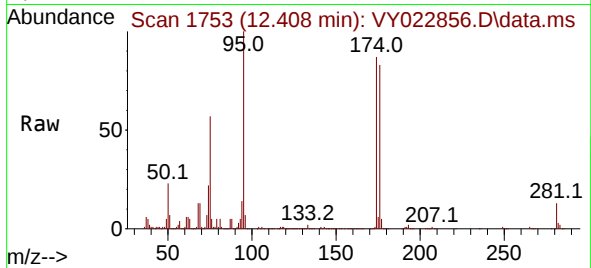
77 1.8 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 149.421 ug/l  
 RT: 12.408 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY022856.D  
 Acq: 27 Jun 2025 12:59

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-70



Tgt Ion: 75 Resp: 144047  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 78.5 117.7#  
 89 0.2 35.7 53.5#

