

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061025\  
 Data File : VY022642.D  
 Acq On : 10 Jun 2025 11:59  
 Operator : SY/MD  
 Sample : Q2223-03  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HR-04-06042025RE

Quant Time: Jun 11 01:49:23 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

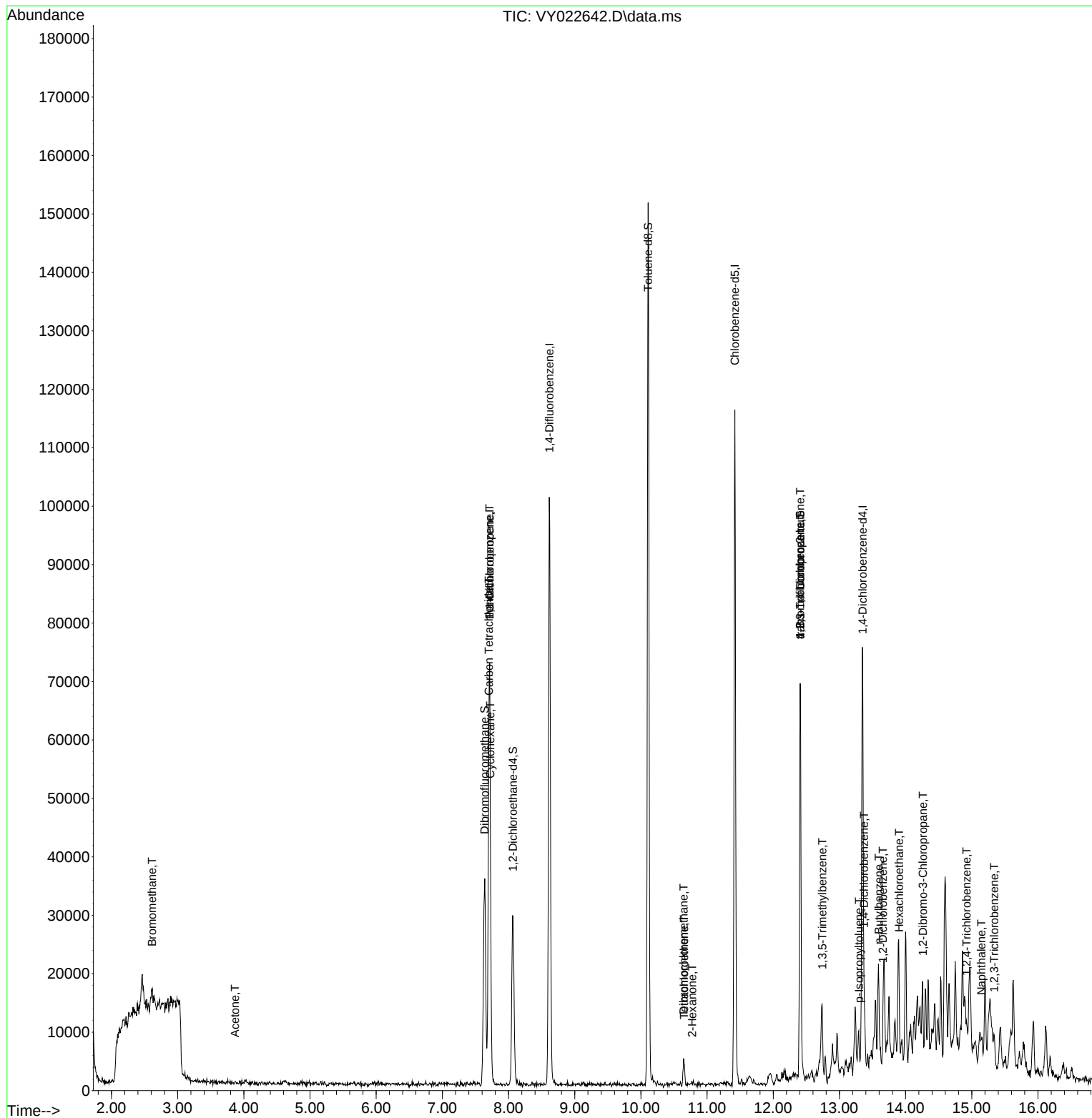
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 7.713          | 168  | 53468               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616          | 114  | 83425               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.420         | 117  | 55257               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.353         | 152  | 16296               | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.067          | 65   | 23556               | 39.391  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 78.780%  |         |        |          |
| 35) Dibromofluoromethane      | 7.640          | 113  | 25132               | 50.471  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 100.940% |         |        |          |
| 50) Toluene-d8                | 10.109         | 98   | 94622               | 47.028  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 94.060%  |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.408         | 95   | 17790               | 29.676  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 59.360%  |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         |        | Qvalue   |
| 5) Bromomethane               | 2.611          | 94   | 2080                | 1.323   | ug/l # | 75       |
| 16) Acetone                   | 3.866          | 43   | 365                 | 3.005   | ug/l # | 45       |
| 31) Cyclohexane               | 7.726          | 56   | 1529                | 1.331   | ug/l # | 52       |
| 36) 1,1-Dichloropropene       | 7.713          | 75   | 4974                | 6.155   | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 7.701          | 117  | 5836                | 7.039   | ug/l # | 18       |
| 59) 2-Hexanone                | 10.774         | 43   | 409                 | 1.576   | ug/l # | 55       |
| 60) Dibromochloromethane      | 10.646         | 129  | 851                 | 1.655   | ug/l # | 10       |
| 64) Tetrachloroethene         | 10.652         | 164  | 736                 | 1.548   | ug/l # | 85       |
| 76) 1,2,3-Trichloropropane    | 12.408         | 75   | 11591               | 62.173  | ug/l # | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.743         | 105  | 3006                | 2.862   | ug/l   | 90       |
| 81) trans-1,4-Dichloro-2-b... | 12.408         | 75   | 11591               | 150.143 | ug/l # | 11       |
| 86) p-Isopropyltoluene        | 13.298         | 119  | 1637                | 1.376   | ug/l   | 84       |
| 88) 1,4-Dichlorobenzene       | 13.371         | 146  | 609                 | 1.098   | ug/l # | 44       |
| 89) n-Butylbenzene            | 13.596         | 91   | 1371                | 1.214   | ug/l # | 1        |
| 90) Hexachloroethane          | 13.901         | 117  | 955                 | 4.122   | ug/l # | 16       |
| 91) 1,2-Dichlorobenzene       | 13.657         | 146  | 530                 | 1.091   | ug/l # | 42       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.261         | 75   | 71                  | 2.221   | ug/l # | 19       |
| 93) 1,2,4-Trichlorobenzene    | 14.919         | 180  | 469                 | 1.771   | ug/l # | 1        |
| 95) Naphthalene               | 15.145         | 128  | 1814                | 3.569   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.340         | 180  | 652                 | 2.872   | ug/l # | 52       |
| -----                         |                |      |                     |         |        |          |

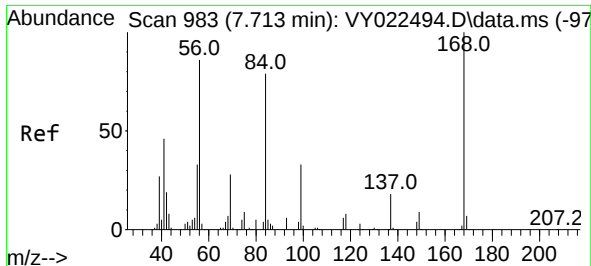
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

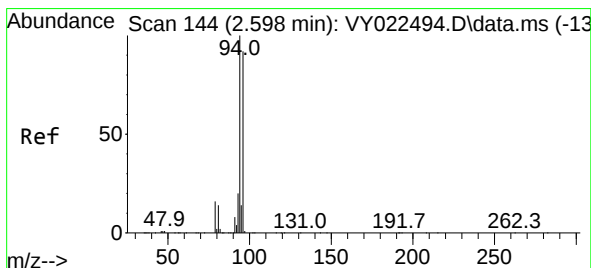
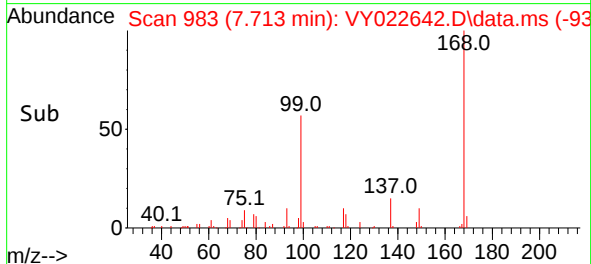
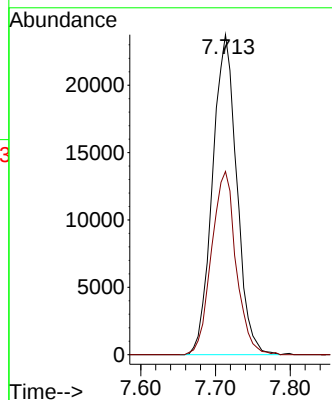
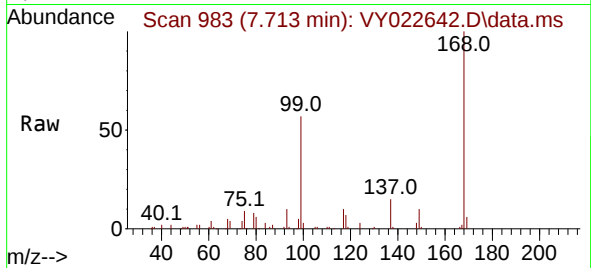




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 983  
Delta R.T. 0.000 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

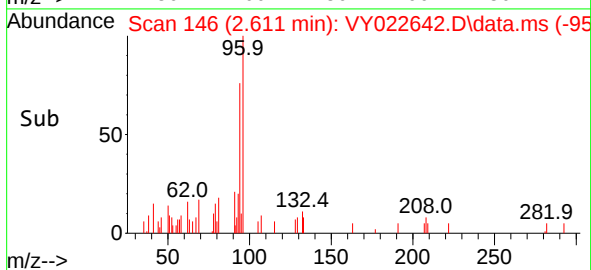
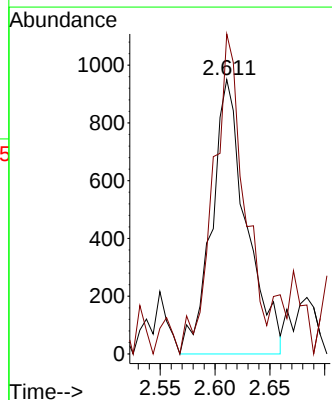
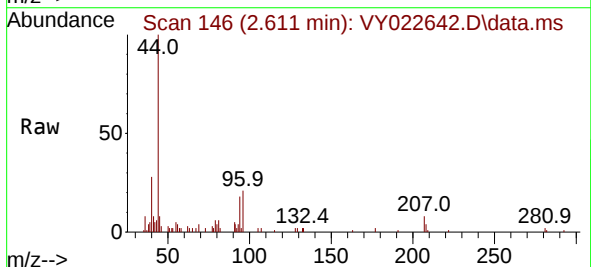
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-04-06042025RE

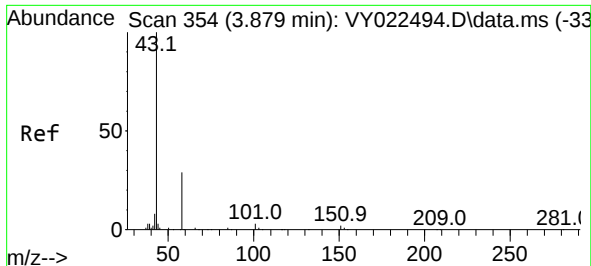
Tgt Ion:168 Resp: 53468  
Ion Ratio Lower Upper  
168 100  
99 57.2 44.3 66.5



#5  
Bromomethane  
Concen: 1.323 ug/l  
RT: 2.611 min Scan# 146  
Delta R.T. 0.012 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

Tgt Ion: 94 Resp: 2080  
Ion Ratio Lower Upper  
94 100  
96 116.6 74.0 111.0#

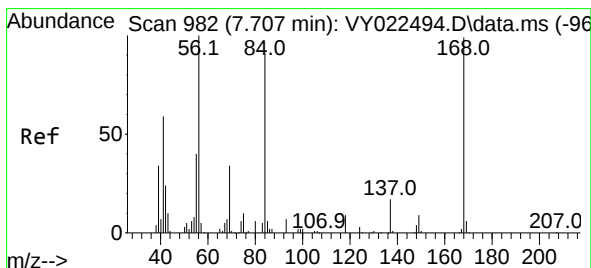
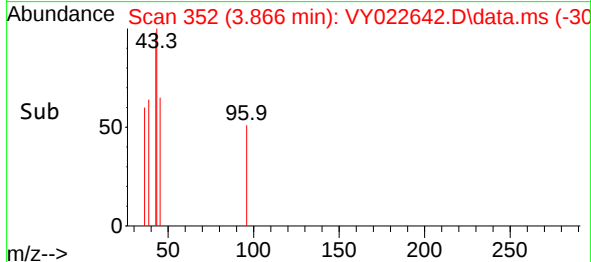
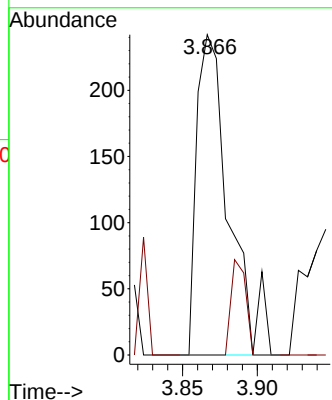
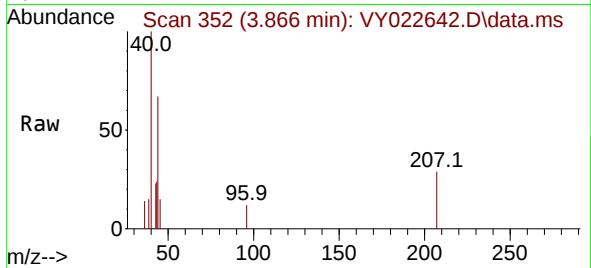




#16  
Acetone  
Concen: 3.005 ug/l  
RT: 3.866 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

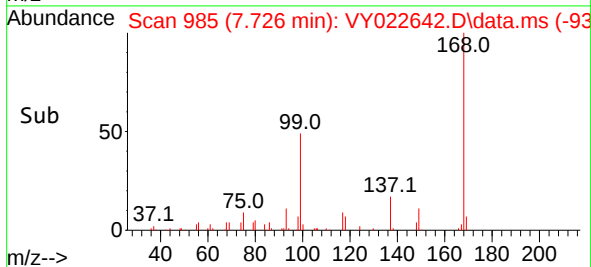
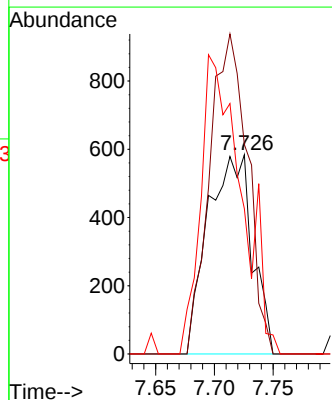
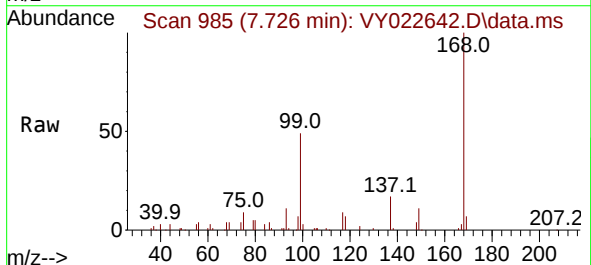
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-04-06042025RE

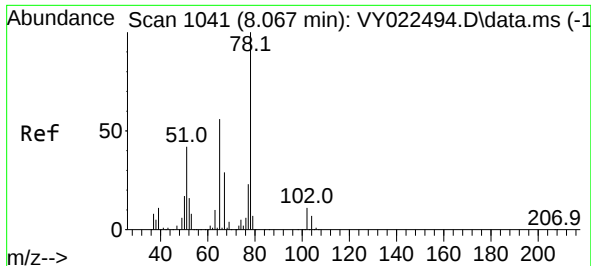
Tgt Ion: 43 Resp: 365  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.0 36.0#



#31  
Cyclohexane  
Concen: 1.331 ug/l  
RT: 7.726 min Scan# 985  
Delta R.T. 0.018 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

Tgt Ion: 56 Resp: 1529  
Ion Ratio Lower Upper  
56 100  
69 105.1 27.0 40.6#  
84 72.9 72.6 109.0





#33

1,2-Dichloroethane-d4

Concen: 39.391 ug/l

RT: 8.067 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY022642.D

Acq: 10 Jun 2025 11:59

Instrument :

MSVOA\_Y

ClientSampleId :

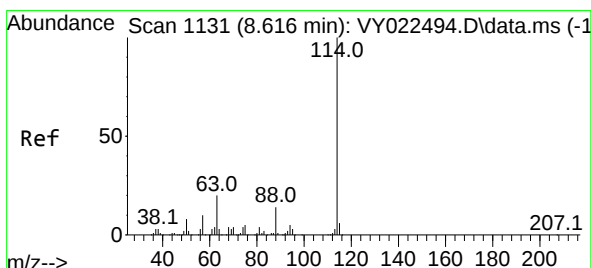
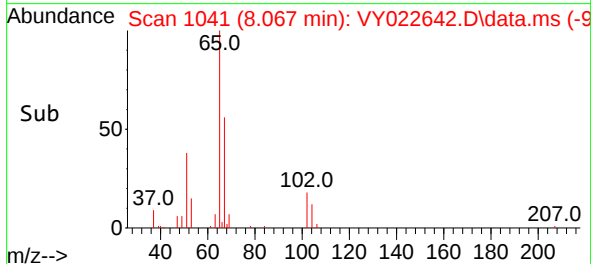
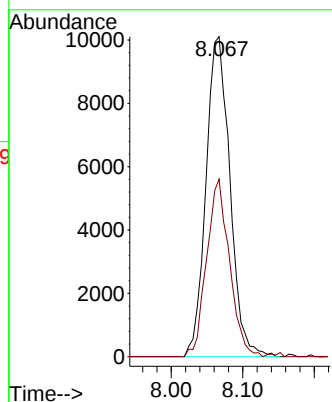
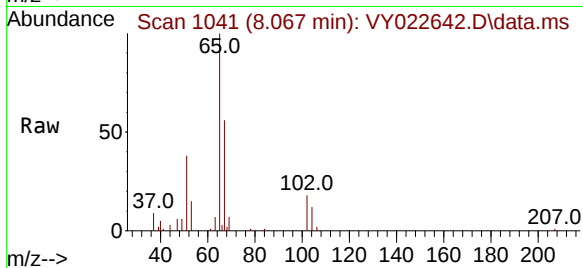
HR-04-06042025RE

Tgt Ion: 65 Resp: 23556

Ion Ratio Lower Upper

65 100

67 52.8 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: VY022642.D

Acq: 10 Jun 2025 11:59

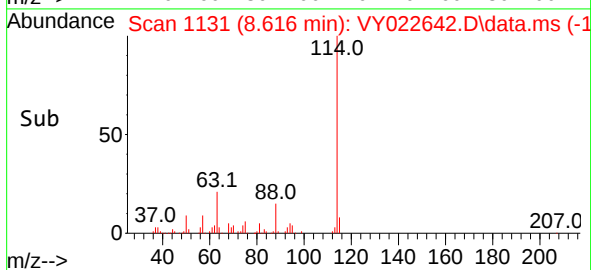
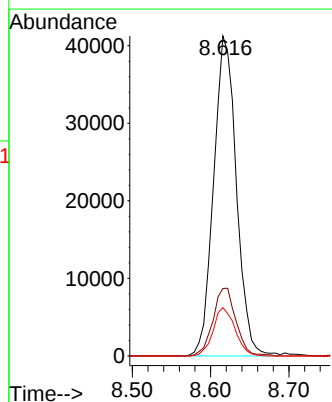
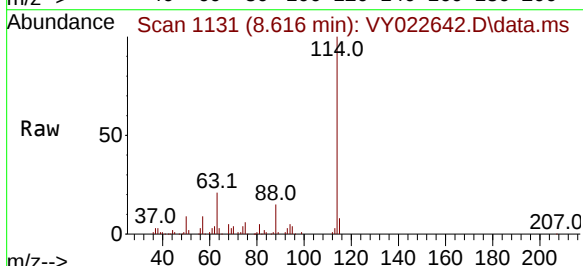
Tgt Ion: 114 Resp: 83425

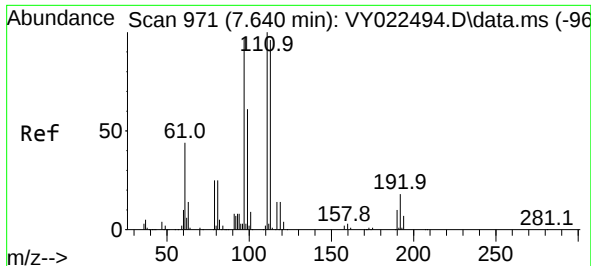
Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.8

88 15.1 0.0 27.8

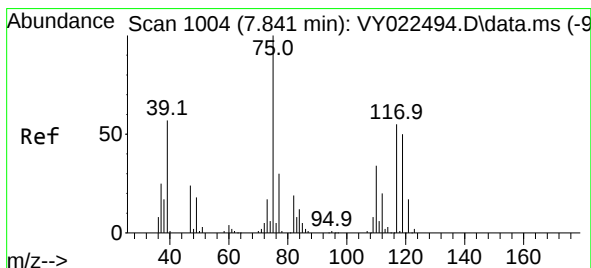
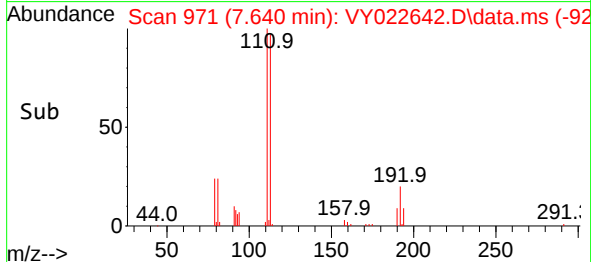
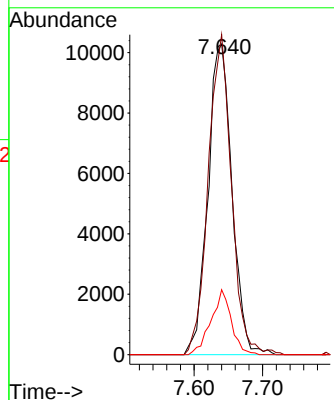
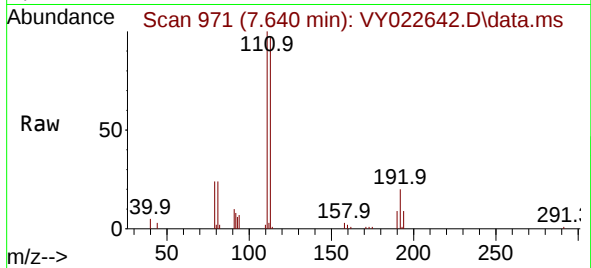




#35  
Dibromofluoromethane  
Concen: 50.471 ug/l  
RT: 7.640 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

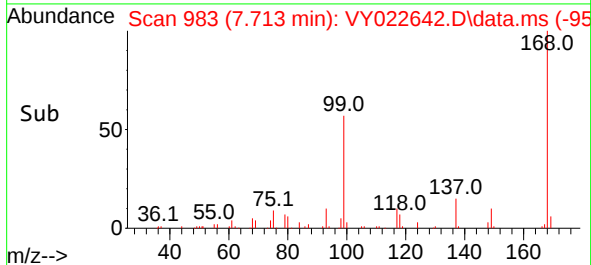
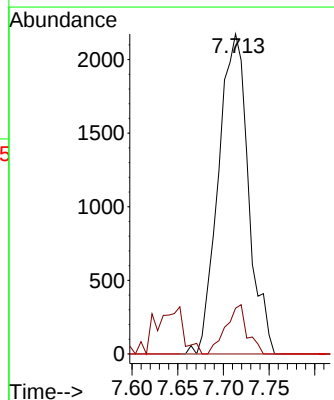
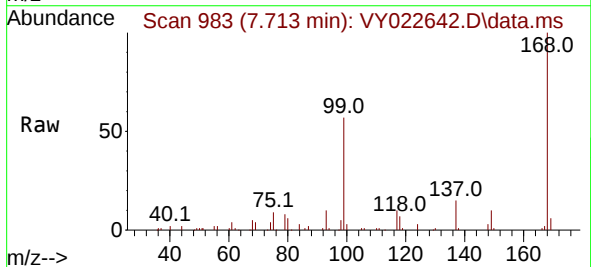
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ClientSampleId :  
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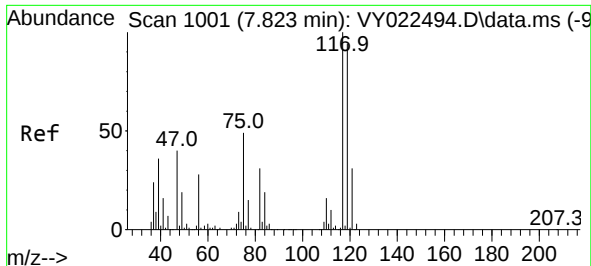
Tgt Ion:113 Resp: 25132  
Ion Ratio Lower Upper  
113 100  
111 99.3 81.1 121.7  
192 17.6 14.2 21.2



#36  
1,1-Dichloropropene  
Concen: 6.155 ug/l  
RT: 7.713 min Scan# 983  
Delta R.T. -0.128 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

Tgt Ion: 75 Resp: 4974  
Ion Ratio Lower Upper  
75 100  
110 11.0 16.9 50.7#  
77 0.0 24.8 37.2#

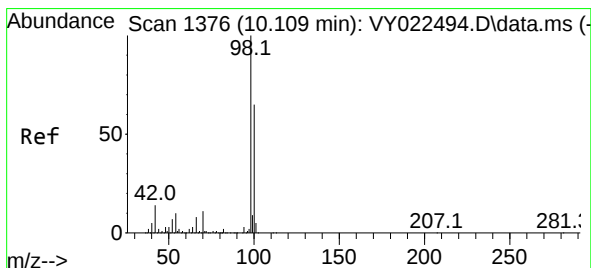
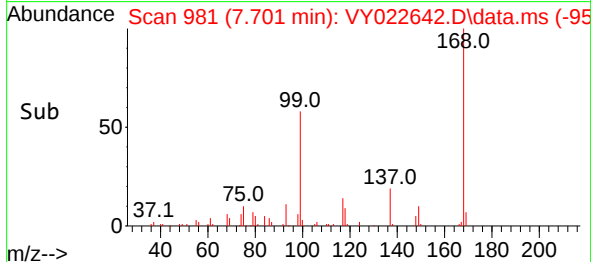
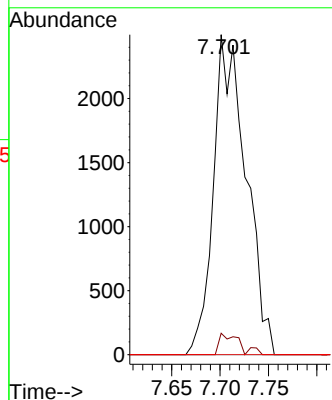
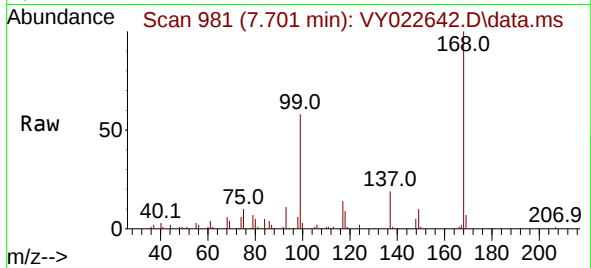




#38  
Carbon Tetrachloride  
Concen: 7.039 ug/l  
RT: 7.701 min Scan# 91  
Delta R.T. -0.122 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

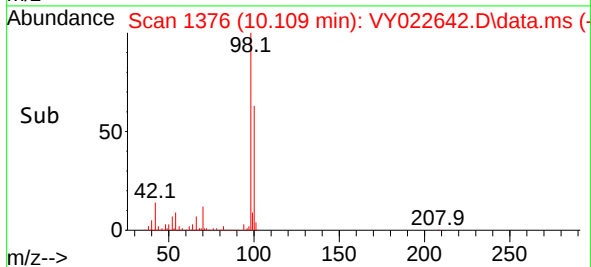
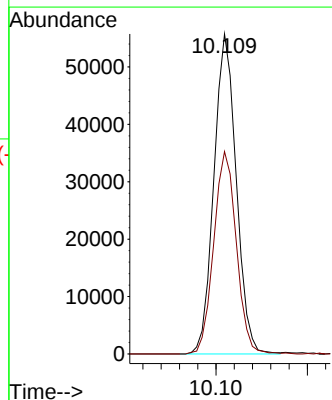
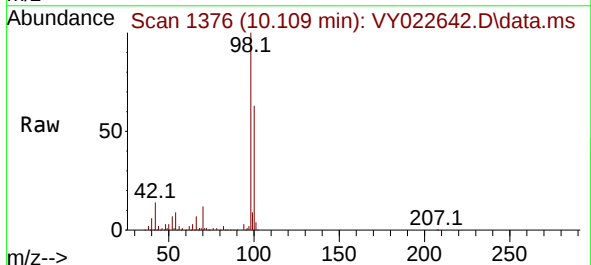
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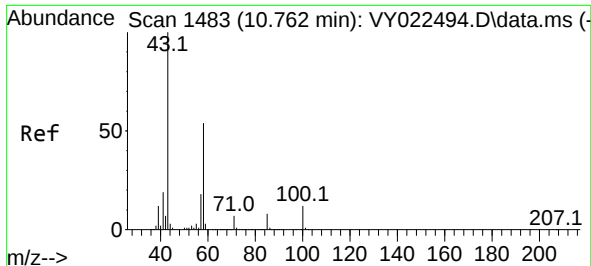
Tgt Ion:117 Resp: 5836  
Ion Ratio Lower Upper  
117 100  
119 6.7 75.0 112.6#  
121 0.0 25.0 37.4#



#50  
Toluene-d8  
Concen: 47.028 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. -0.000 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

Tgt Ion: 98 Resp: 94622  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.4 77.0





#59

2-Hexanone

Concen: 1.576 ug/l

RT: 10.774 min Scan# 1485

Delta R.T. 0.012 min

Lab File: VY022642.D

Acq: 10 Jun 2025 11:59

Instrument :

MSVOA\_Y

ClientSampleId :

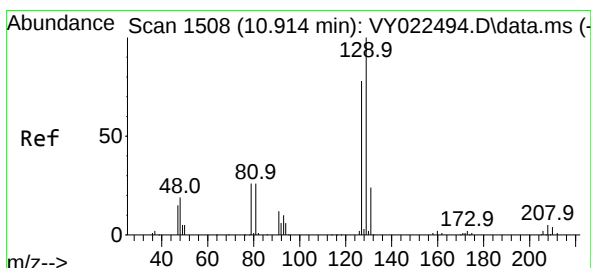
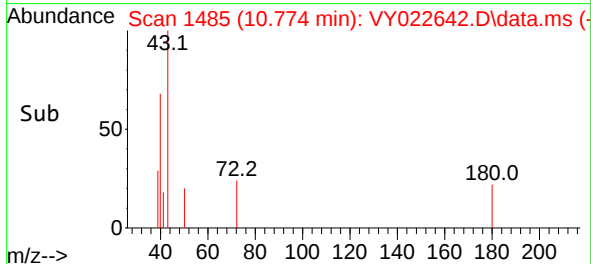
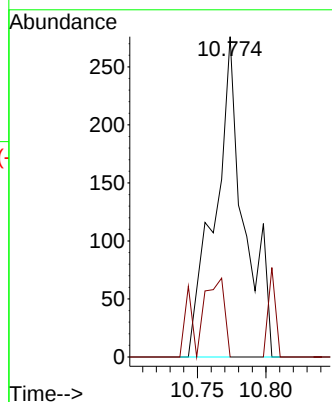
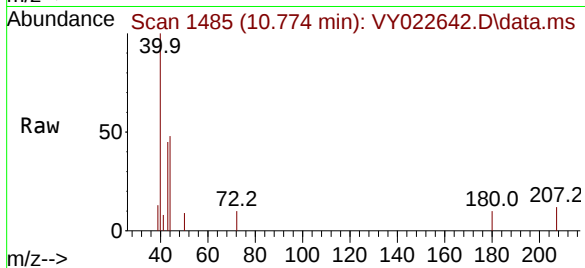
HR-04-06042025RE

Tgt Ion: 43 Resp: 409

Ion Ratio Lower Upper

43 100

58 21.8 27.3 81.8#



#60

Dibromochloromethane

Concen: 1.655 ug/l

RT: 10.646 min Scan# 1464

Delta R.T. -0.268 min

Lab File: VY022642.D

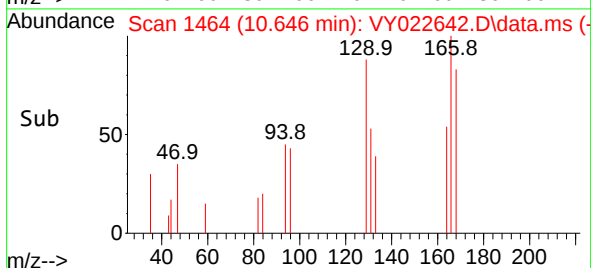
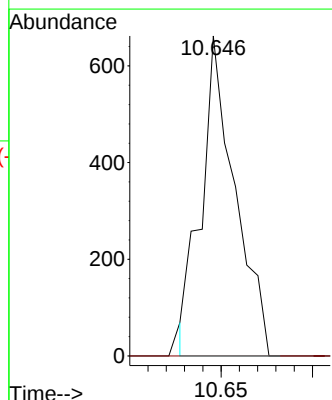
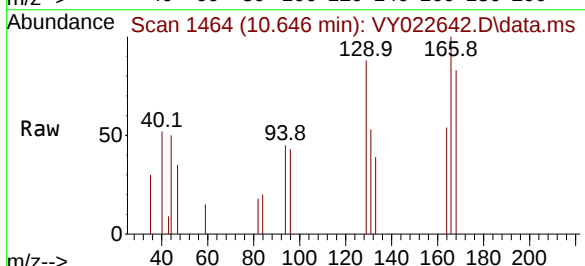
Acq: 10 Jun 2025 11:59

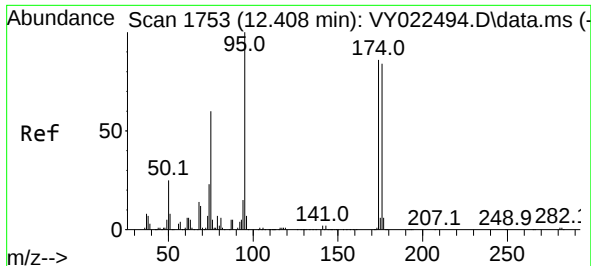
Tgt Ion: 129 Resp: 851

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#

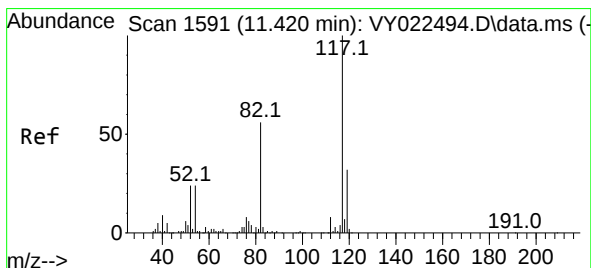
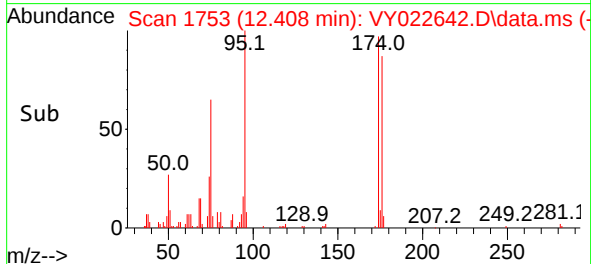
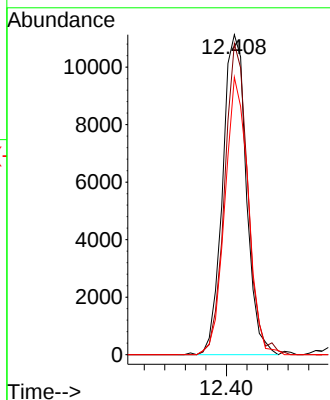
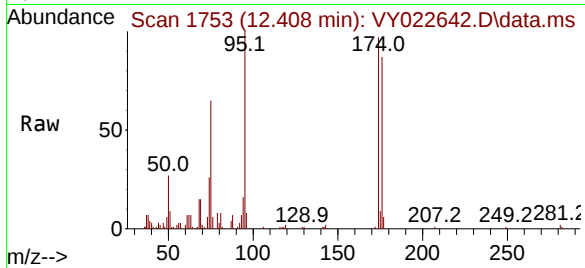




#62  
4-Bromofluorobenzene  
Concen: 29.676 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. -0.000 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

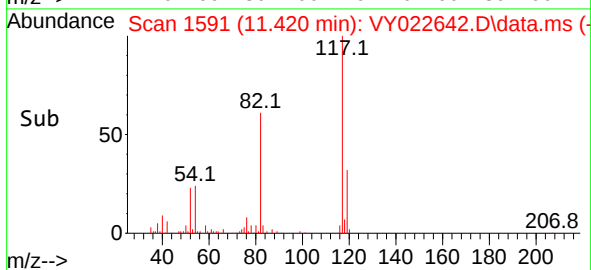
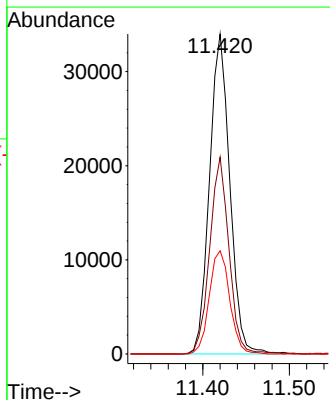
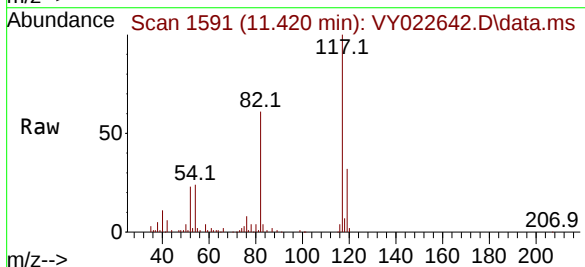
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-04-06042025RE

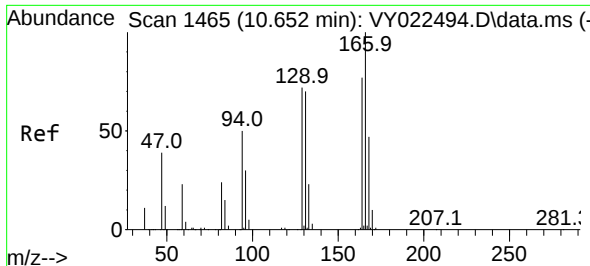
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 17790 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 94.6  | 0.0   | 170.0 |
| 176      | 85.5  | 0.0   | 166.2 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. -0.000 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

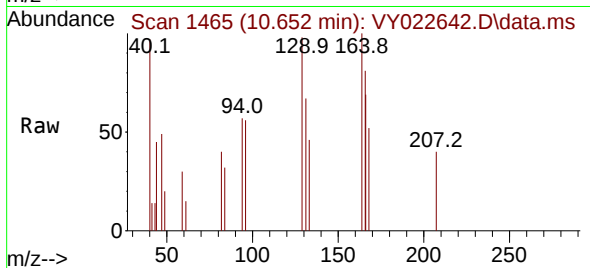
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 55257 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 61.5  | 44.6  | 66.8  |
| 119      | 32.3  | 25.4  | 38.0  |



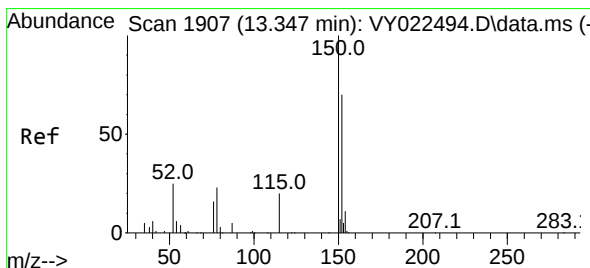
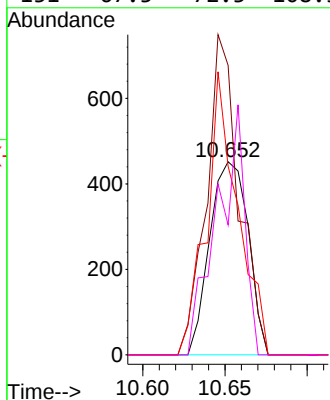
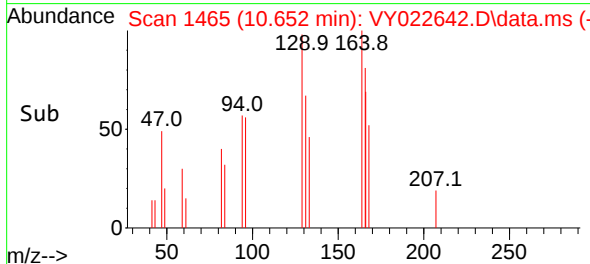


#64  
Tetrachloroethene  
Concen: 1.548 ug/l  
RT: 10.652 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

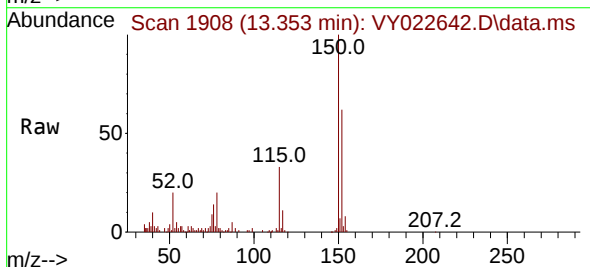
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-04-06042025RE



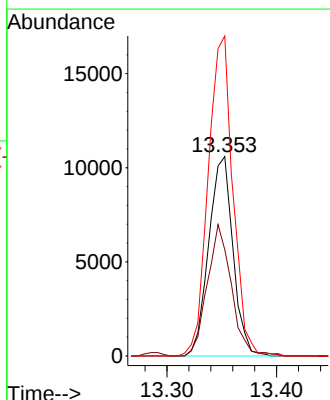
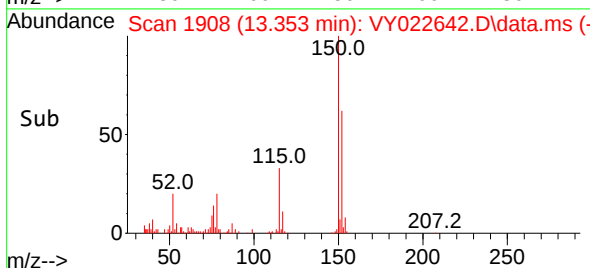
Tgt Ion:164 Resp: 736  
Ion Ratio Lower Upper  
164 100  
166 149.8 104.0 156.0  
129 97.6 74.5 111.7  
131 67.3 72.3 108.5#

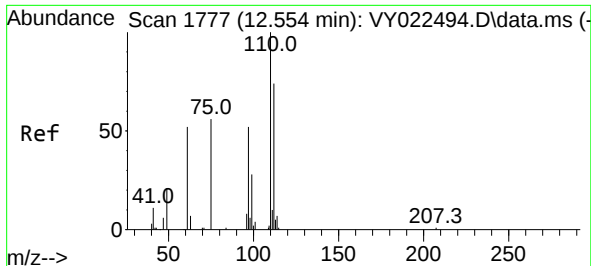


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.353 min Scan# 1908  
Delta R.T. 0.006 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59



Tgt Ion:152 Resp: 16296  
Ion Ratio Lower Upper  
152 100  
115 65.2 28.9 86.7  
150 163.3 0.0 349.6

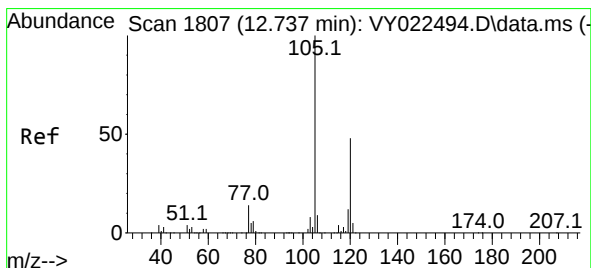
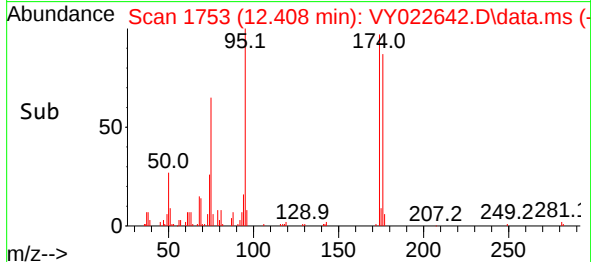
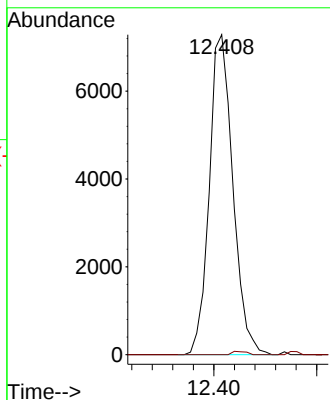
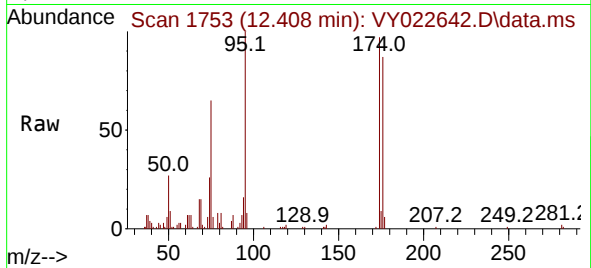




#76  
 1,2,3-Trichloropropane  
 Concen: 62.173 ug/l  
 RT: 12.408 min Scan# 11  
 Delta R.T. -0.146 min  
 Lab File: VY022642.D  
 Acq: 10 Jun 2025 11:59

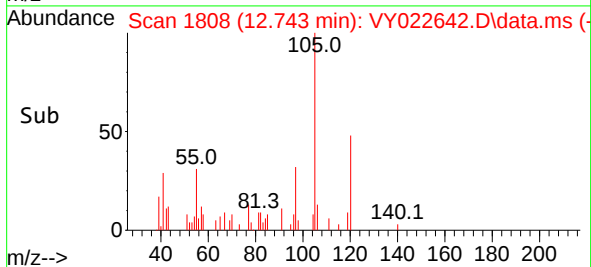
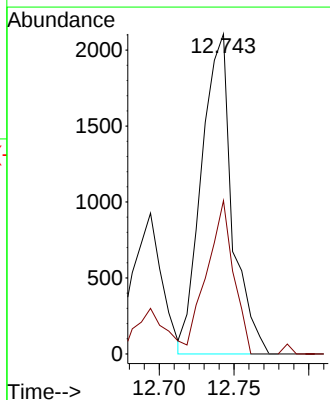
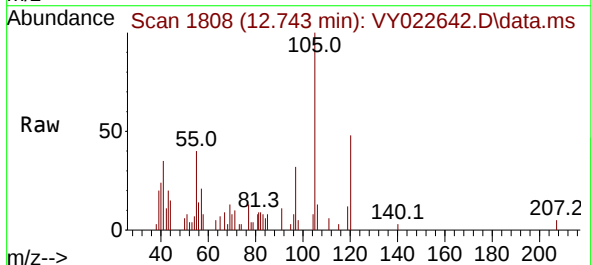
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HR-04-06042025RE

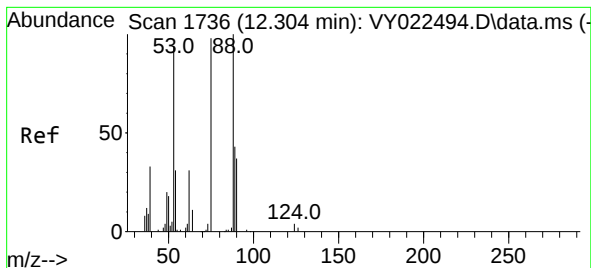
Tgt Ion: 75 Resp: 11591  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 0.0 0.0#



#80  
 1,3,5-Trimethylbenzene  
 Concen: 2.862 ug/l  
 RT: 12.743 min Scan# 1808  
 Delta R.T. 0.006 min  
 Lab File: VY022642.D  
 Acq: 10 Jun 2025 11:59

Tgt Ion: 105 Resp: 3006  
 Ion Ratio Lower Upper  
 105 100  
 120 41.4 24.1 72.4

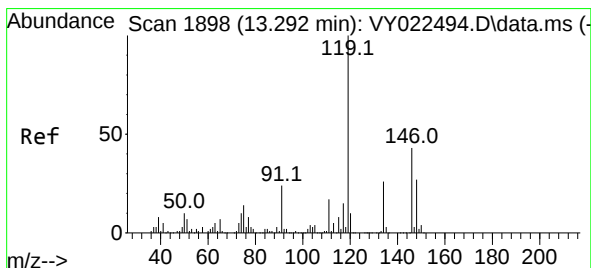
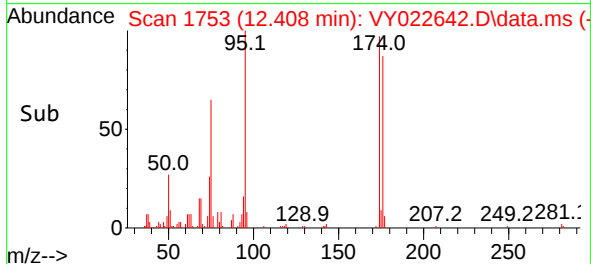
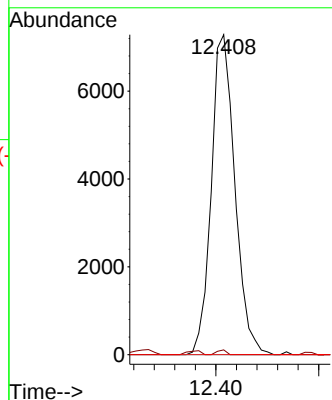
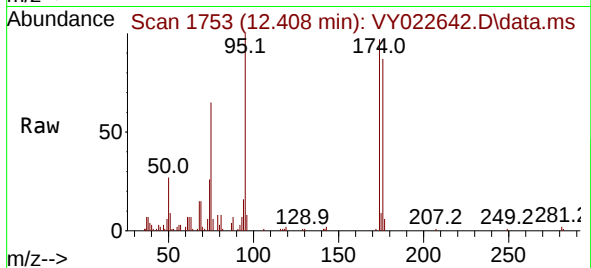




#81  
trans-1,4-Dichloro-2-butene  
Concen: 150.143 ug/l  
RT: 12.408 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

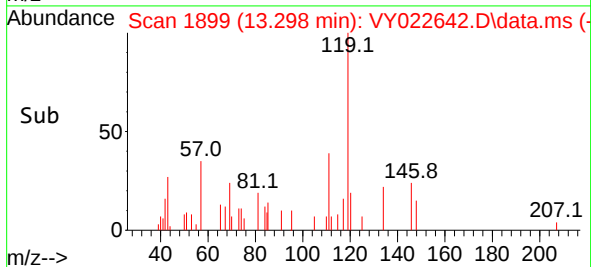
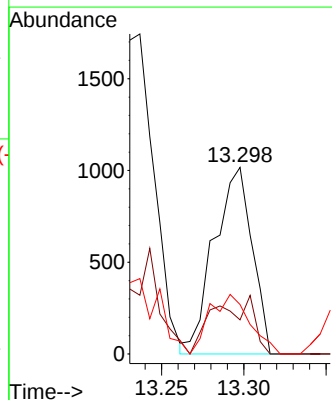
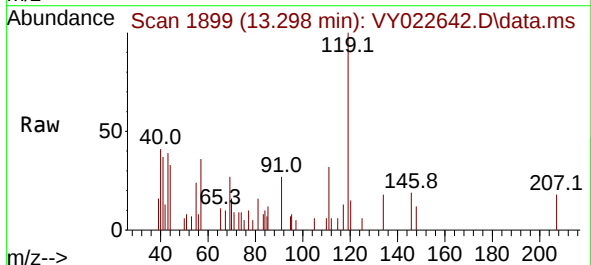
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-04-06042025RE

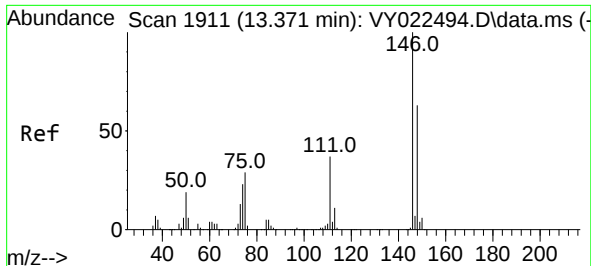
Tgt Ion: 75 Resp: 11591  
Ion Ratio Lower Upper  
75 100  
53 0.6 78.5 117.7#  
89 0.0 35.7 53.5#



#86  
p-Isopropyltoluene  
Concen: 1.376 ug/l  
RT: 13.298 min Scan# 1899  
Delta R.T. 0.006 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

Tgt Ion: 119 Resp: 1637  
Ion Ratio Lower Upper  
119 100  
134 31.9 13.1 39.1  
91 33.7 11.6 34.8

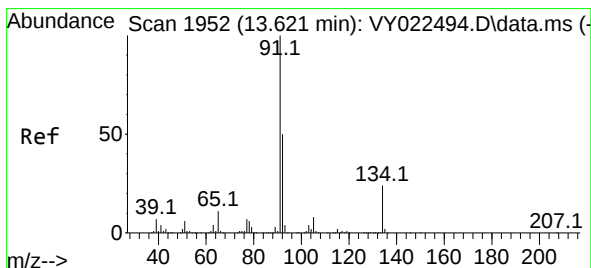
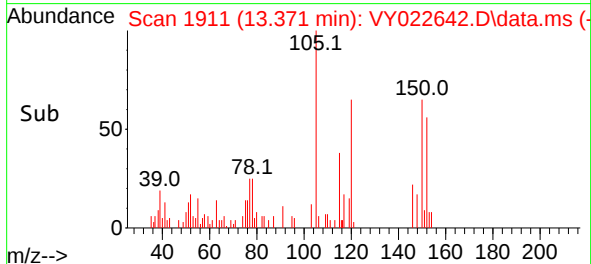
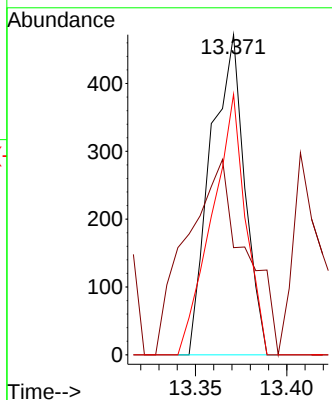
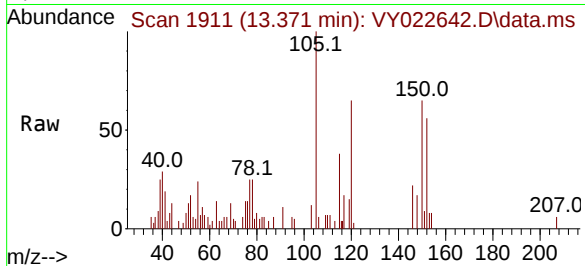




#88  
 1,4-Dichlorobenzene  
 Concen: 1.098 ug/l  
 RT: 13.371 min Scan# 1911  
 Delta R.T. -0.000 min  
 Lab File: VY022642.D  
 Acq: 10 Jun 2025 11:59

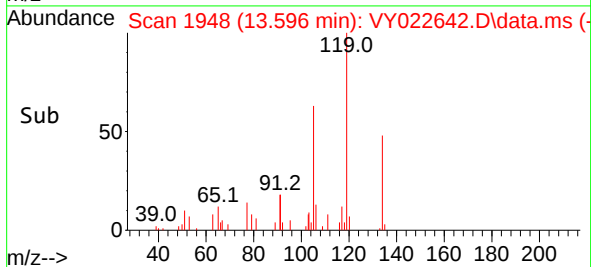
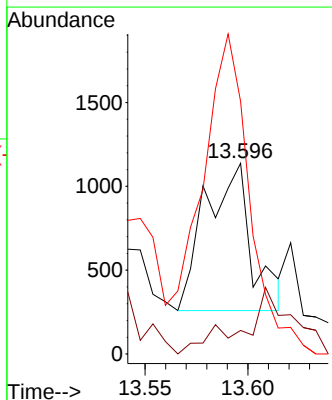
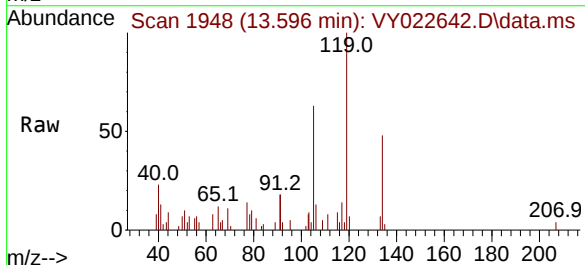
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HR-04-06042025RE

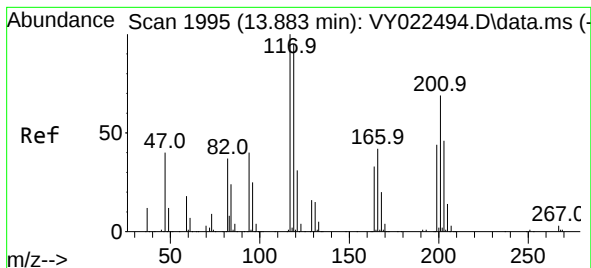
Tgt Ion:146 Resp: 609  
 Ion Ratio Lower Upper  
 146 100  
 111 104.9 19.4 58.2#  
 148 81.3 31.6 94.8



#89  
 n-Butylbenzene  
 Concen: 1.214 ug/l  
 RT: 13.596 min Scan# 1948  
 Delta R.T. -0.024 min  
 Lab File: VY022642.D  
 Acq: 10 Jun 2025 11:59

Tgt Ion: 91 Resp: 1371  
 Ion Ratio Lower Upper  
 91 100  
 92 10.6 25.9 77.8#  
 134 227.6 12.0 36.1#





#90

Hexachloroethane

Concen: 4.122 ug/l

RT: 13.901 min Scan# 1998

Delta R.T. 0.018 min

Lab File: VY022642.D

Acq: 10 Jun 2025 11:59

Instrument :

MSVOA\_Y

ClientSampleId :

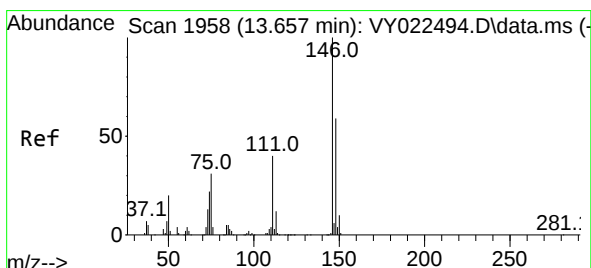
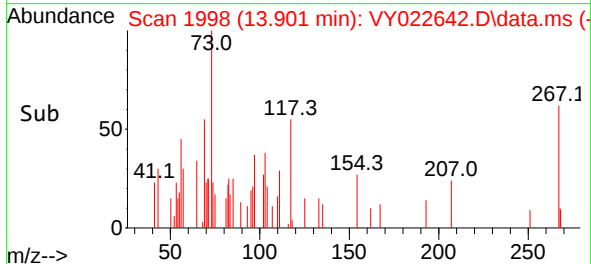
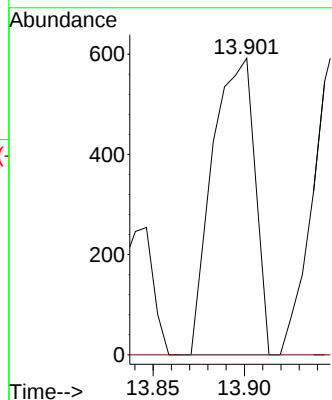
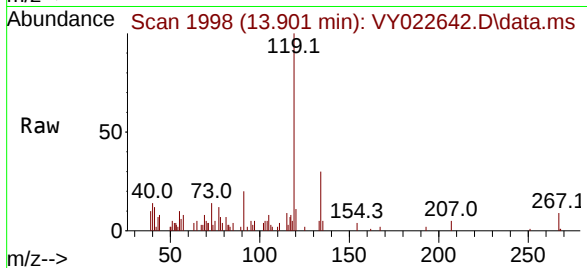
HR-04-06042025RE

Tgt Ion:117 Resp: 955

Ion Ratio Lower Upper

117 100

201 0.0 34.0 102.0#



#91

1,2-Dichlorobenzene

Concen: 1.091 ug/l

RT: 13.657 min Scan# 1958

Delta R.T. -0.000 min

Lab File: VY022642.D

Acq: 10 Jun 2025 11:59

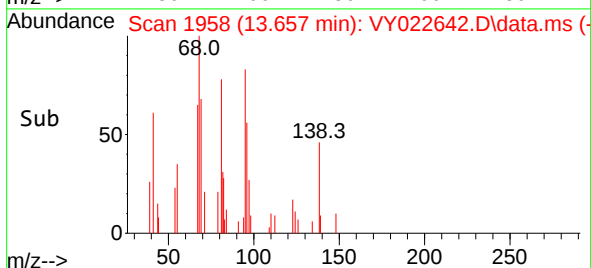
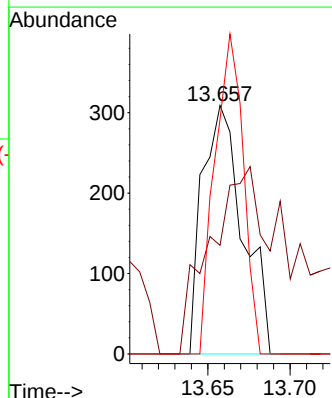
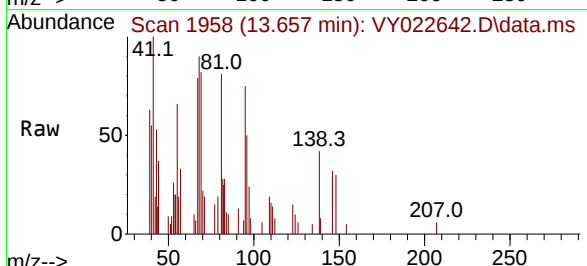
Tgt Ion:146 Resp: 530

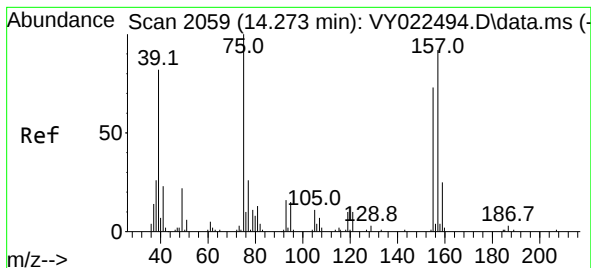
Ion Ratio Lower Upper

146 100

111 98.3 20.2 60.6#

148 90.2 31.4 94.0

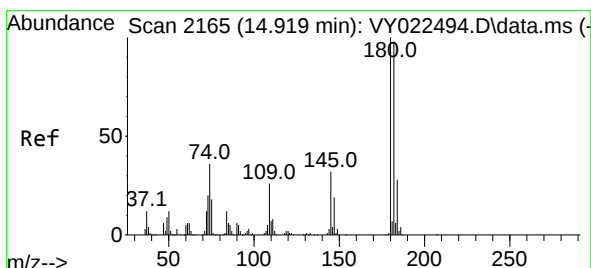
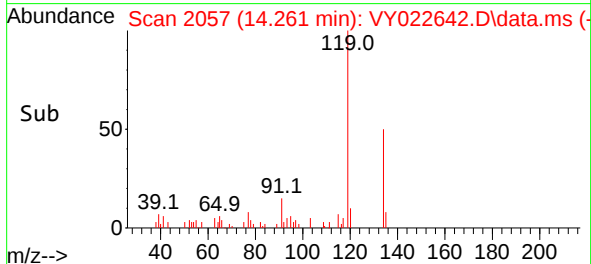
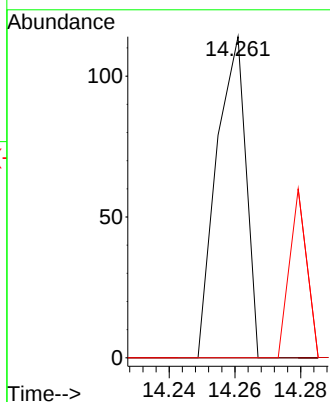
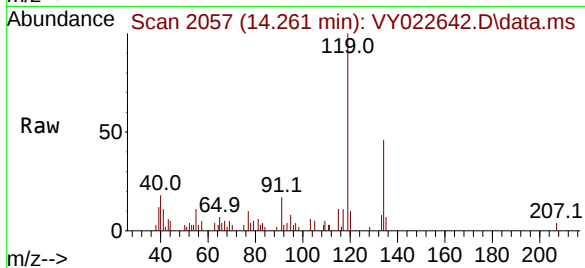




#92  
1,2-Dibromo-3-Chloropropane  
Concen: 2.221 ug/l  
RT: 14.261 min Scan# 2057  
Delta R.T. -0.012 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

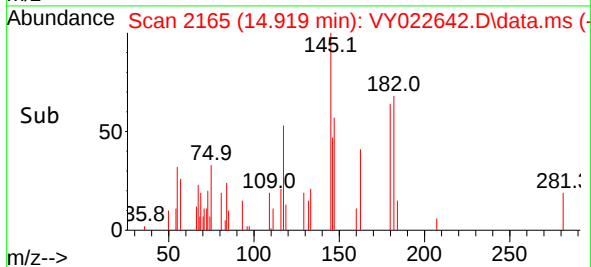
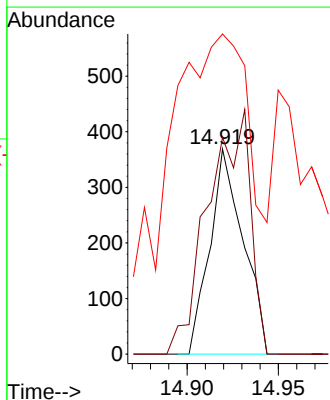
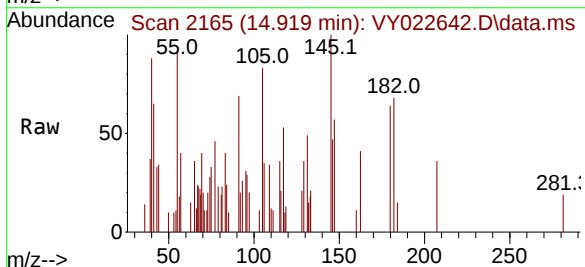
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-04-06042025RE

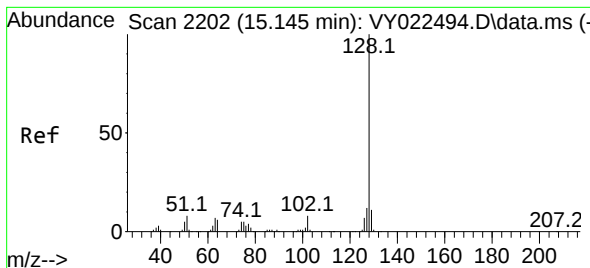
Tgt Ion: 75 Resp: 71  
Ion Ratio Lower Upper  
75 100  
155 0.0 39.9 119.6#  
157 31.0 54.0 162.0#



#93  
1,2,4-Trichlorobenzene  
Concen: 1.771 ug/l  
RT: 14.919 min Scan# 2165  
Delta R.T. -0.000 min  
Lab File: VY022642.D  
Acq: 10 Jun 2025 11:59

Tgt Ion:180 Resp: 469  
Ion Ratio Lower Upper  
180 100  
182 150.5 48.4 145.3#  
145 400.6 15.5 46.5#





#95

Naphthalene

Concen: 3.569 ug/l

RT: 15.145 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY022642.D

Acq: 10 Jun 2025 11:59

Instrument :

MSVOA\_Y

ClientSampleId :

HR-04-06042025RE

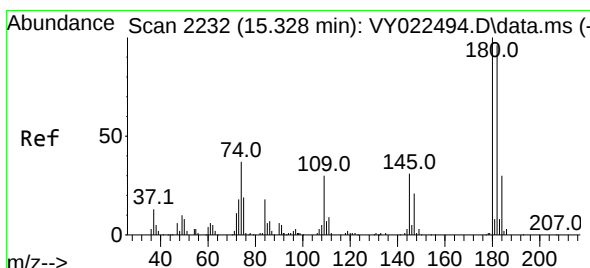
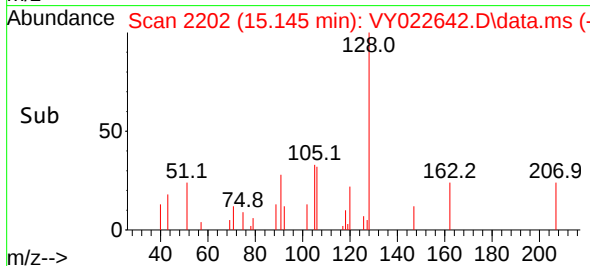
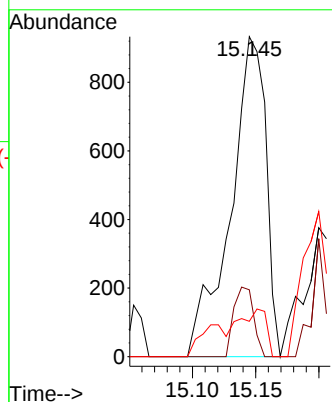
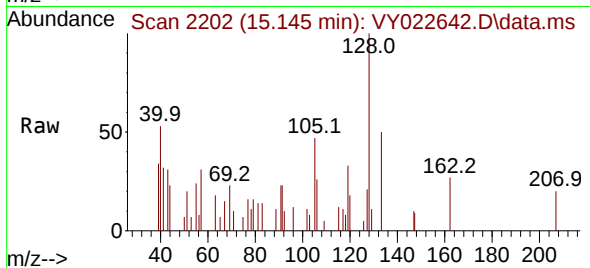
Tgt Ion:128 Resp: 1814

Ion Ratio Lower Upper

128 100

127 12.2 10.4 15.6

129 11.9 8.9 13.3



#96

1,2,3-Trichlorobenzene

Concen: 2.872 ug/l

RT: 15.340 min Scan# 2234

Delta R.T. 0.012 min

Lab File: VY022642.D

Acq: 10 Jun 2025 11:59

Tgt Ion:180 Resp: 652

Ion Ratio Lower Upper

180 100

182 85.9 47.1 141.3

145 122.1 15.2 45.6#

