

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111225\  
 Data File : VY023760.D  
 Acq On : 12 Nov 2025 13:38  
 Operator : SY/MD  
 Sample : Q3586-02  
 Misc : 8.48g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SED-2RE

Quant Time: Nov 14 03:38:17 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

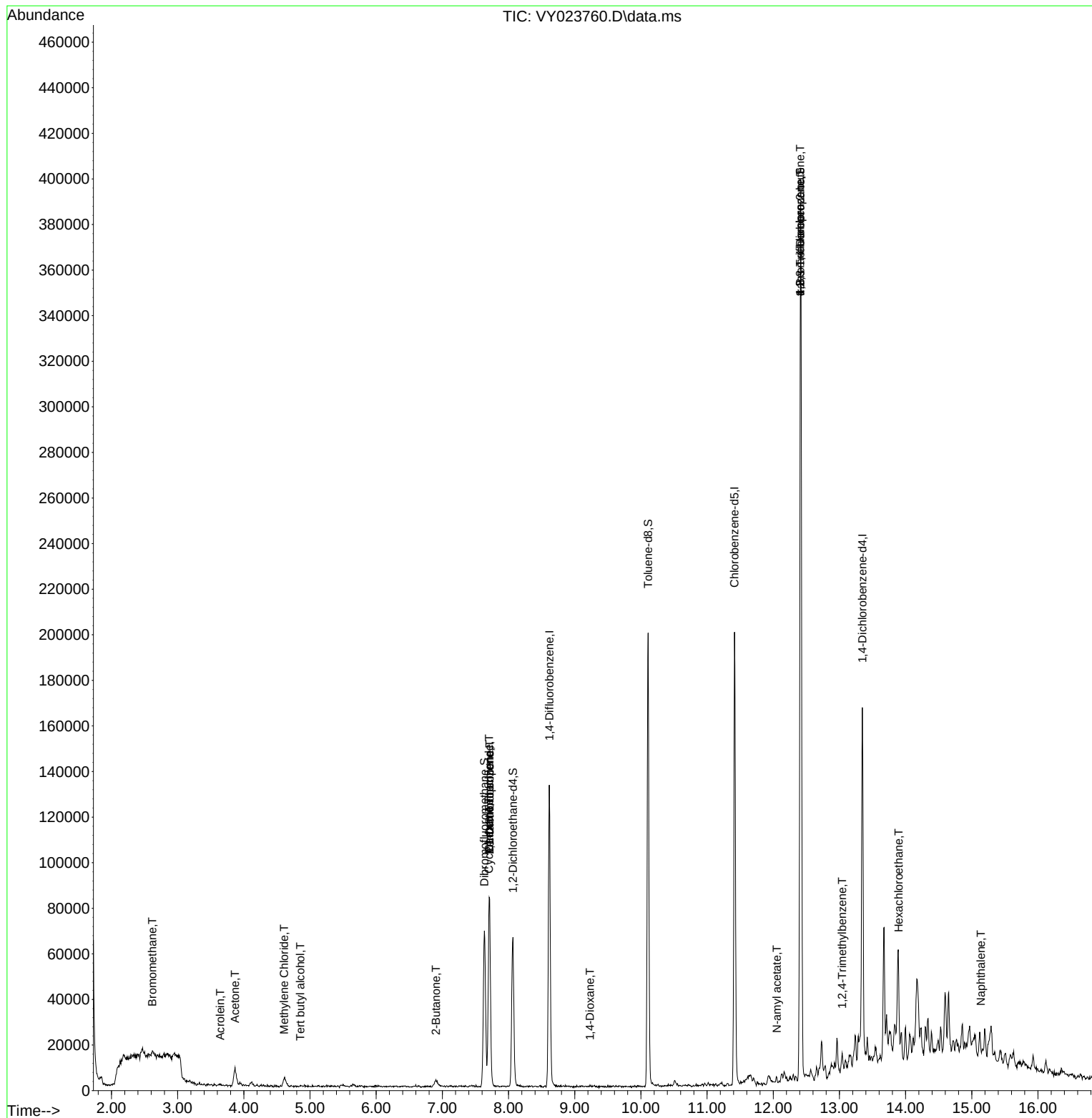
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Pentafluorobenzene         | 7.713  | 168   | 69400    | 50.000   | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616  | 114   | 117751   | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.414 | 117   | 115570   | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.346 | 152   | 41947    | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.067  | 65    | 52364    | 88.454   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 176.900%# |          |
| 35) Dibromofluoromethane      | 7.634  | 113   | 48847    | 66.380   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 132.760%  |          |
| 50) Toluene-d8                | 10.109 | 98    | 134169   | 48.946   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | = 97.900%   |          |
| 62) 4-Bromofluorobenzene      | 12.408 | 95    | 41670    | 47.007   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | = 94.020%   |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          | Qvalue      |          |
| 5) Bromomethane               | 2.617  | 94    | 1249     | 1.790    | ug/l #      | 75       |
| 11) Tert butyl alcohol        | 4.854  | 59    | 163      | 4.270    | ug/l #      | 74       |
| 13) Acrolein                  | 3.641  | 56    | 105      | 2.140    | ug/l        | 87       |
| 16) Acetone                   | 3.866  | 43    | 12535    | 85.185   | ug/l        | 98       |
| 20) Methylene Chloride        | 4.610  | 84    | 2665     | 3.752    | ug/l #      | 94       |
| 25) 2-Butanone                | 6.902  | 43    | 4155     | 24.422   | ug/l        | 99       |
| 31) Cyclohexane               | 7.701  | 56    | 1197     | 1.227    | ug/l #      | 39       |
| 36) 1,1-Dichloropropene       | 7.713  | 75    | 4693     | 4.773    | ug/l #      | 48       |
| 38) Carbon Tetrachloride      | 7.707  | 117   | 6222     | 5.370    | ug/l #      | 19       |
| 49) 1,4-Dioxane               | 9.231  | 88    | 331      | 76.310   | ug/l #      | 38       |
| 74) N-amyl acetate            | 12.054 | 43    | 563      | 1.185    | ug/l #      | 41       |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75    | 22377    | 65.915   | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75    | 22377    | 148.964  | ug/l #      | 17       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105   | 4652     | 2.061    | ug/l        | 94       |
| 90) Hexachloroethane          | 13.895 | 117   | 949      | 1.742    | ug/l #      | 7        |
| 95) Naphthalene               | 15.139 | 128   | 799      | 5.841    | ug/l #      | 16       |
| -----                         |        |       |          |          |             |          |

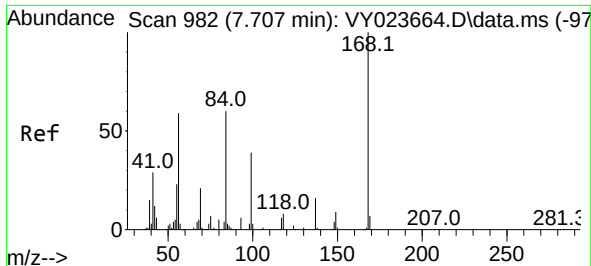
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111225\  
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MSVOA\_Y  
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SED-2RE

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Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration

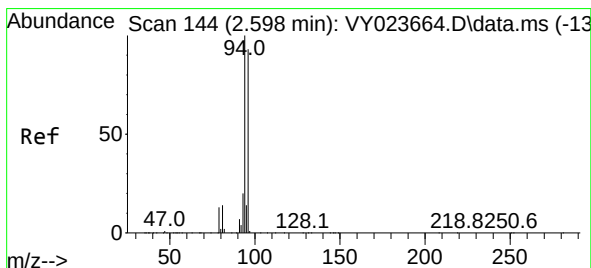
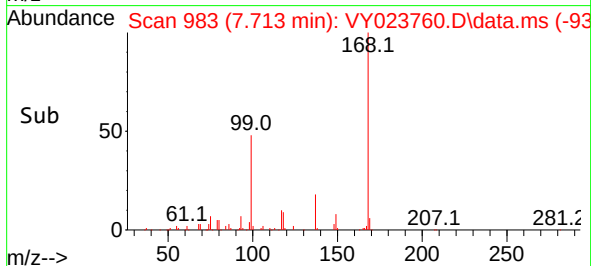
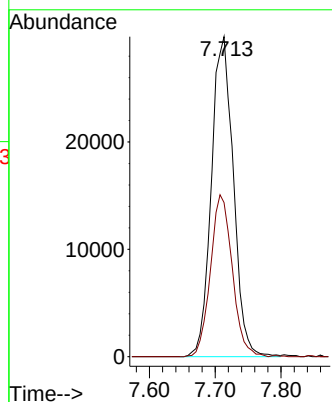
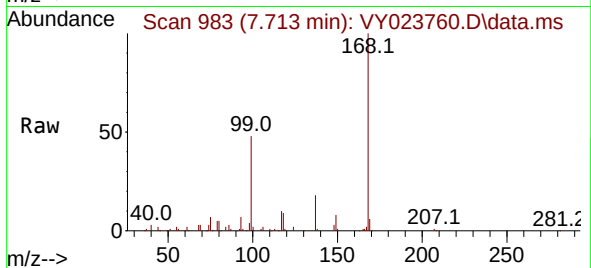




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

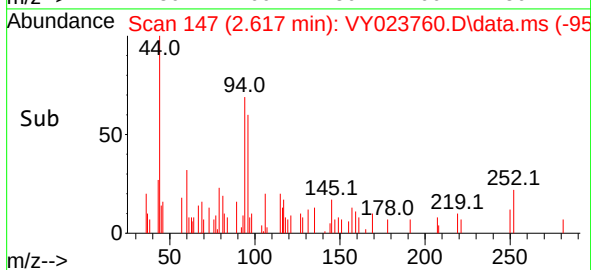
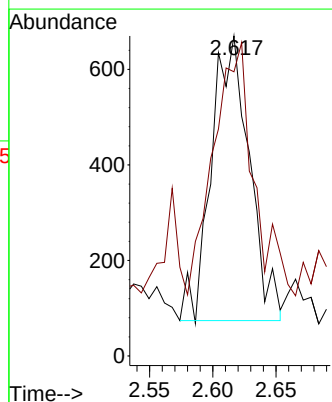
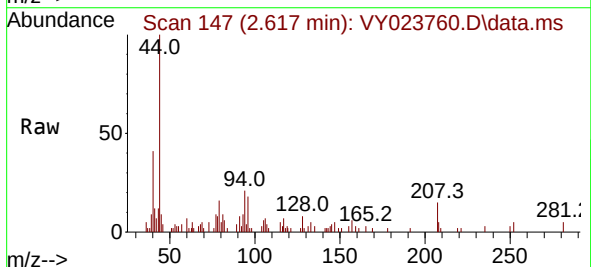
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-2RE

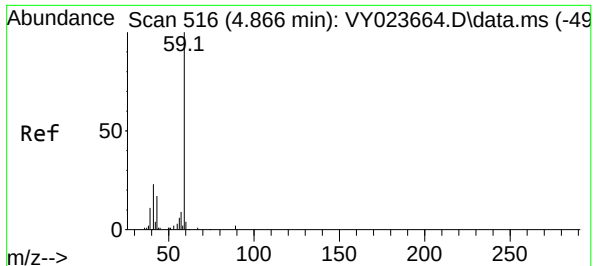
Tgt Ion:168 Resp: 69400  
Ion Ratio Lower Upper  
168 100  
99 48.1 41.0 61.4



#5  
Bromomethane  
Concen: 1.790 ug/l  
RT: 2.617 min Scan# 147  
Delta R.T. 0.018 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

Tgt Ion: 94 Resp: 1249  
Ion Ratio Lower Upper  
94 100  
96 68.6 74.4 111.6#

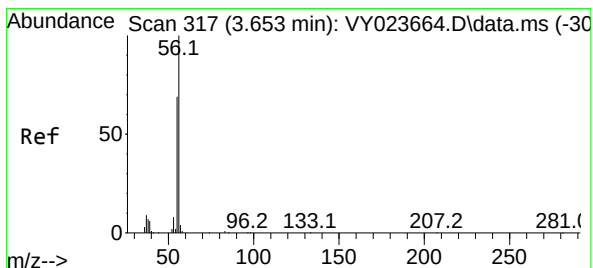
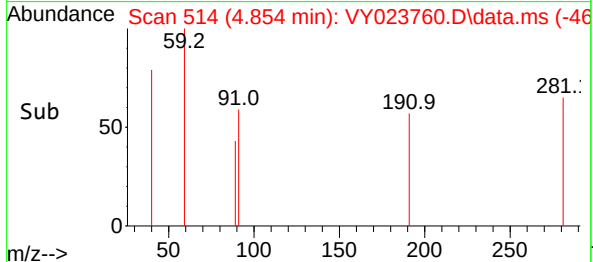
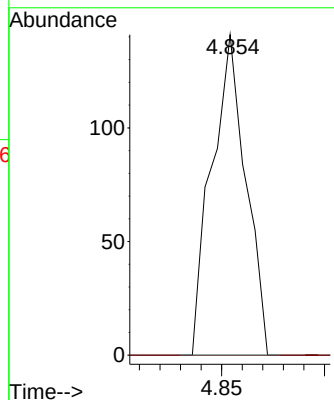
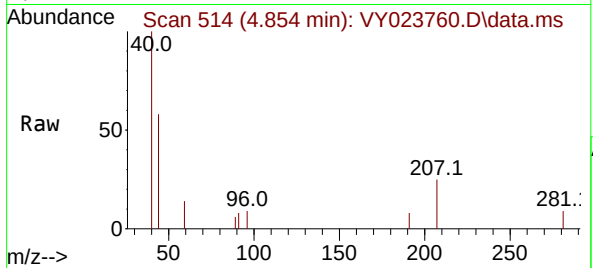




#11  
Tert butyl alcohol  
Concen: 4.270 ug/l  
RT: 4.854 min Scan# 516  
Delta R.T. -0.012 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

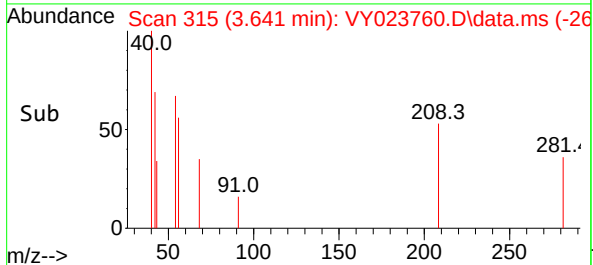
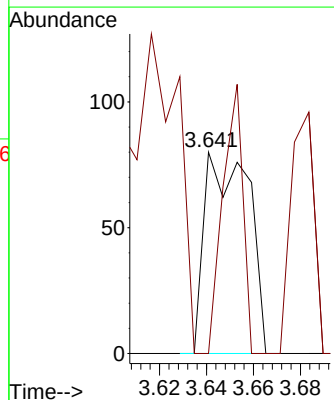
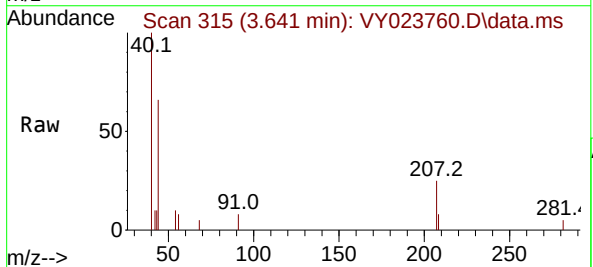
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-2RE

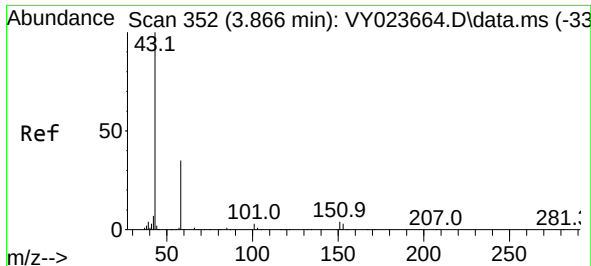
Tgt Ion: 59 Resp: 163  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#



#13  
Acrolein  
Concen: 2.140 ug/l  
RT: 3.641 min Scan# 315  
Delta R.T. -0.012 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

Tgt Ion: 56 Resp: 105  
Ion Ratio Lower Upper  
56 100  
55 60.0 56.6 84.8

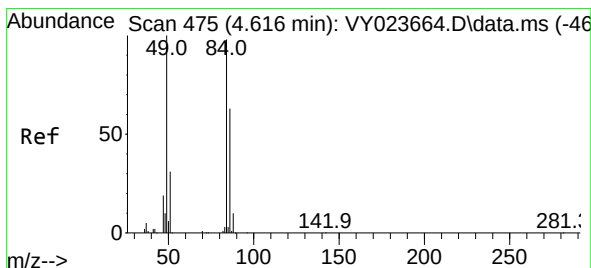
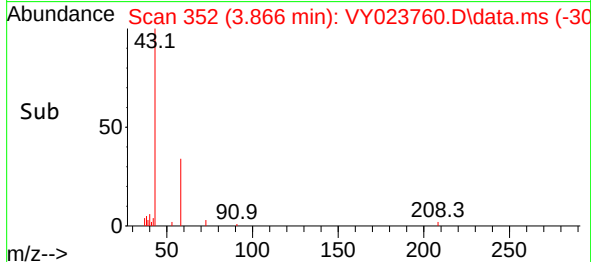
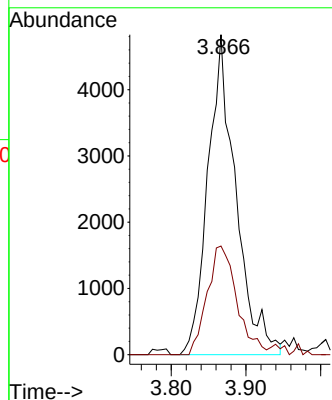
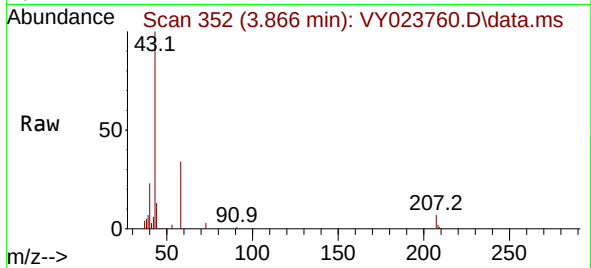




#16  
Acetone  
Concen: 85.185 ug/l  
RT: 3.866 min Scan# 352  
Delta R.T. 0.000 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

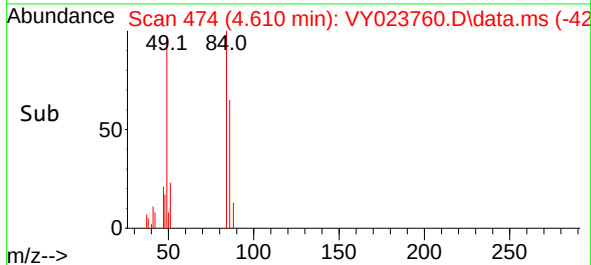
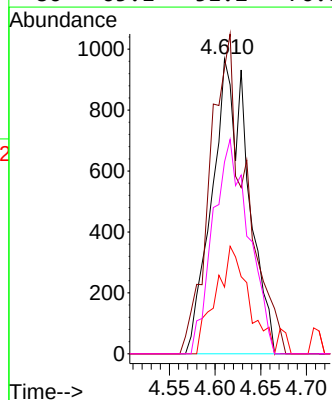
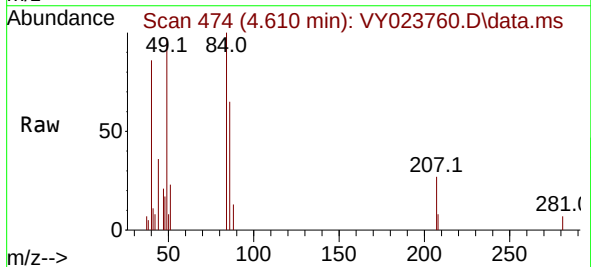
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-2RE

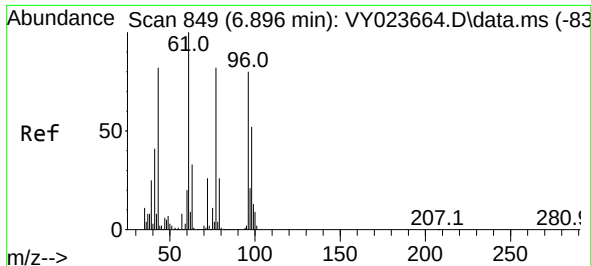
Tgt Ion: 43 Resp: 12535  
Ion Ratio Lower Upper  
43 100  
58 34.0 28.2 42.4



#20  
Methylene Chloride  
Concen: 3.752 ug/l  
RT: 4.610 min Scan# 474  
Delta R.T. -0.006 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

Tgt Ion: 84 Resp: 2665  
Ion Ratio Lower Upper  
84 100  
49 96.9 81.5 122.3  
51 22.6 25.5 38.3#  
86 65.1 51.2 76.8

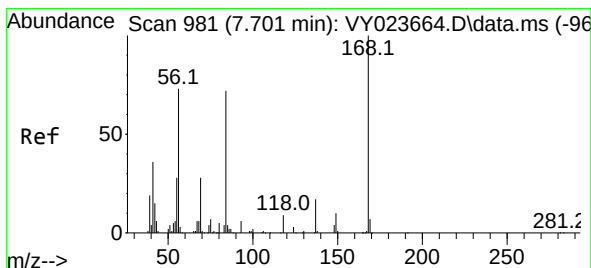
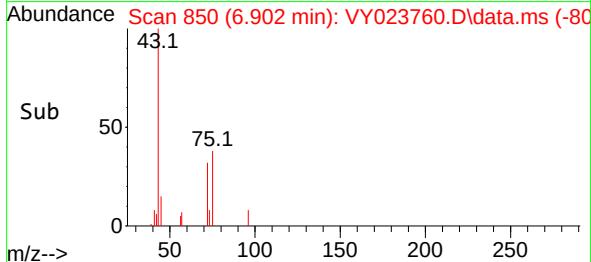
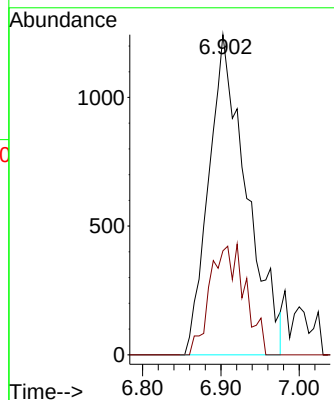
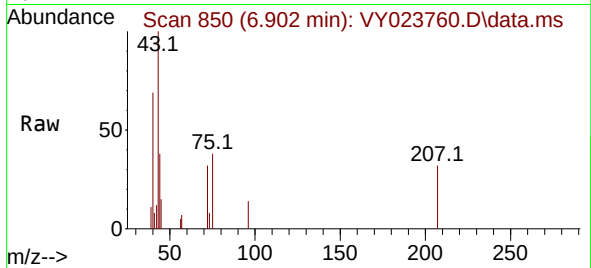




#25  
2-Butanone  
Concen: 24.422 ug/l  
RT: 6.902 min Scan# 849  
Delta R.T. 0.006 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

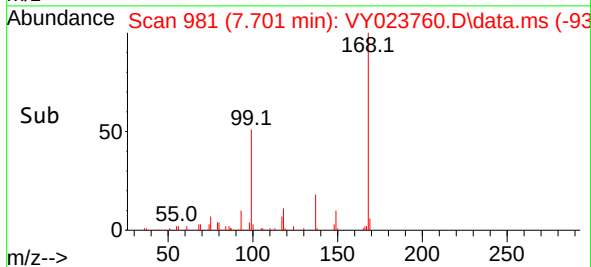
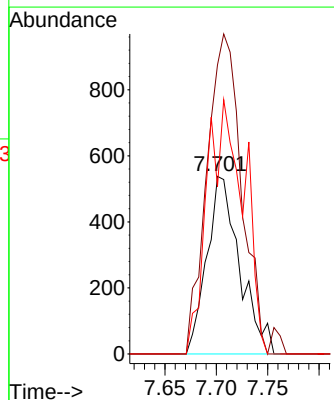
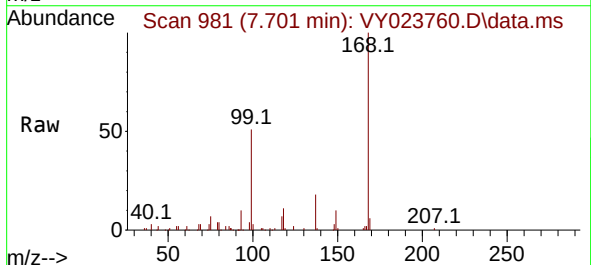
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-2RE

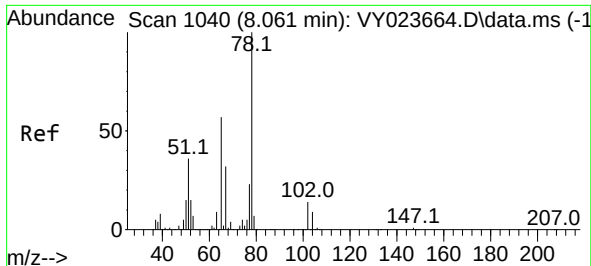
Tgt Ion: 43 Resp: 4155  
Ion Ratio Lower Upper  
43 100  
72 32.5 25.7 38.5



#31  
Cyclohexane  
Concen: 1.227 ug/l  
RT: 7.701 min Scan# 981  
Delta R.T. 0.000 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

Tgt Ion: 56 Resp: 1197  
Ion Ratio Lower Upper  
56 100  
69 162.6 30.5 45.7#  
84 94.2 79.0 118.4





#33

1,2-Dichloroethane-d4

Concen: 88.454 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023760.D

Acq: 12 Nov 2025 13:38

Instrument :

MSVOA\_Y

ClientSampleId :

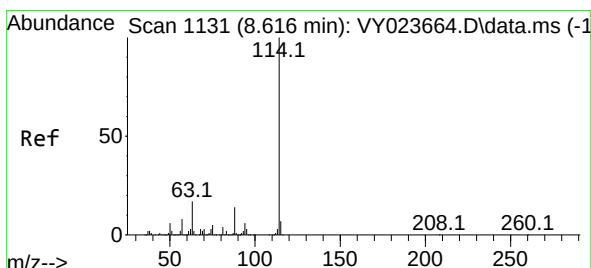
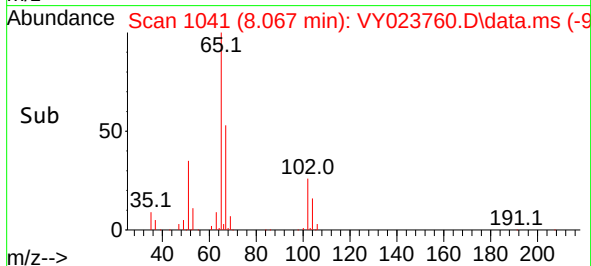
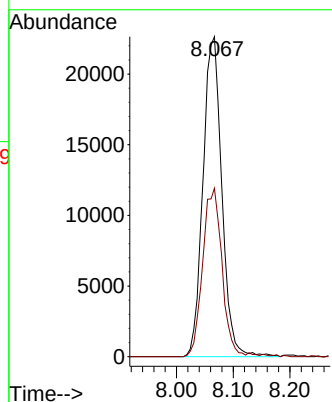
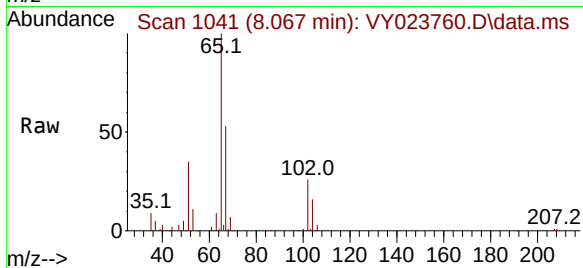
SED-2RE

Tgt Ion: 65 Resp: 52364

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023760.D

Acq: 12 Nov 2025 13:38

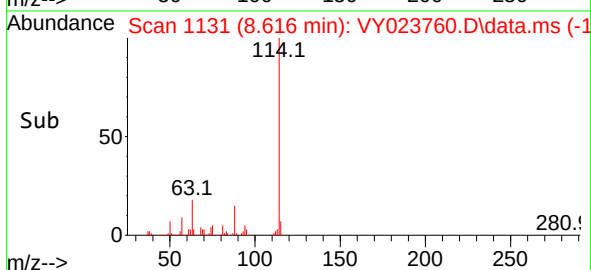
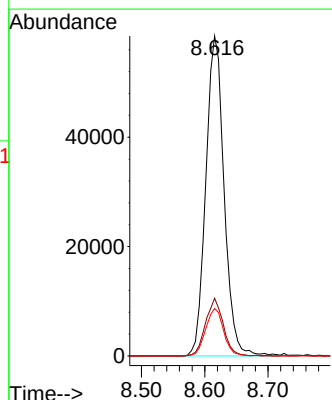
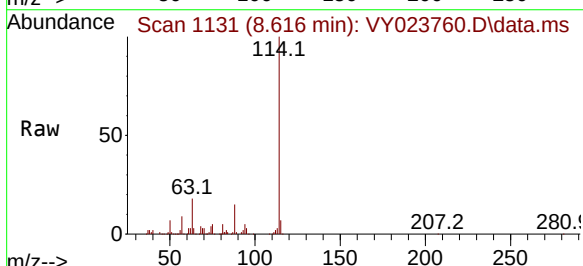
Tgt Ion: 114 Resp: 117751

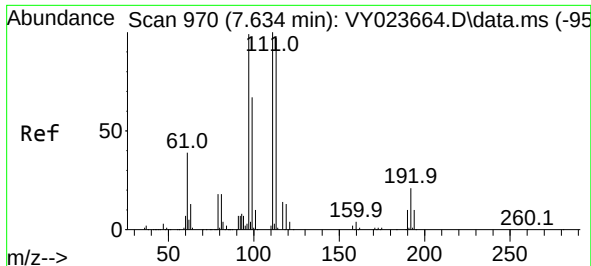
Ion Ratio Lower Upper

114 100

63 18.0 0.0 33.8

88 14.8 0.0 29.0

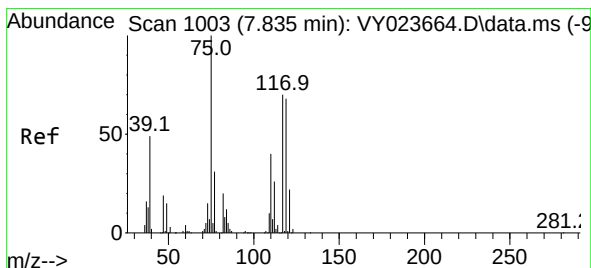
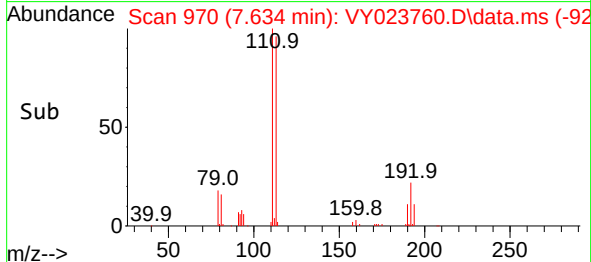
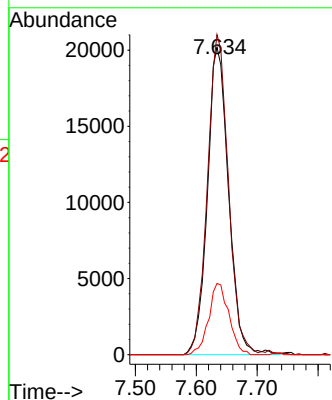
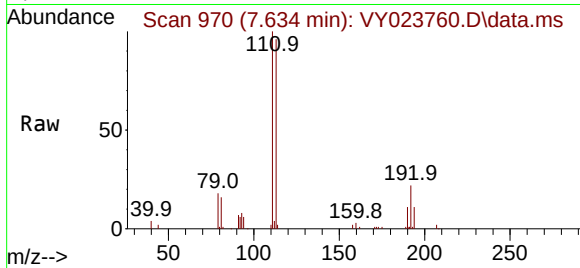




#35  
Dibromofluoromethane  
Concen: 66.380 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

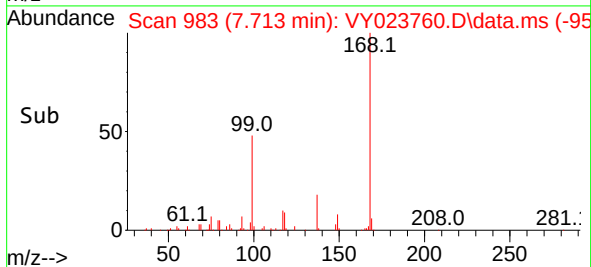
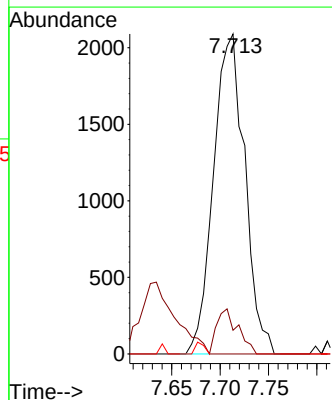
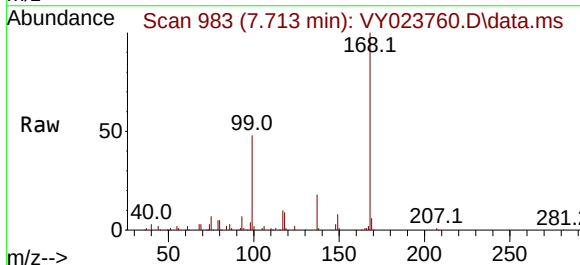
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-2RE

Tgt Ion:113 Resp: 48847  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.2 123.4  
192 22.1 17.3 25.9

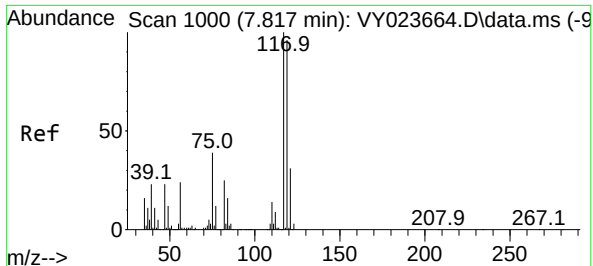


#36  
1,1-Dichloropropene  
Concen: 4.773 ug/l  
RT: 7.713 min Scan# 983  
Delta R.T. -0.122 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

Tgt Ion: 75 Resp: 4693  
Ion Ratio Lower Upper  
75 100  
110 9.5 19.7 59.0#  
77 0.0 25.2 37.8#



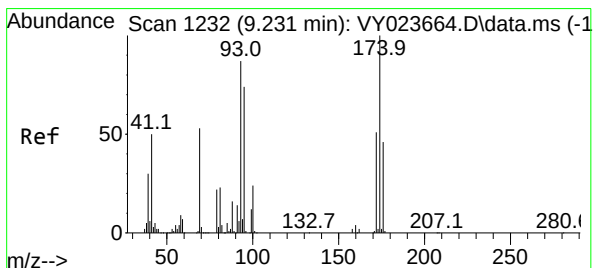
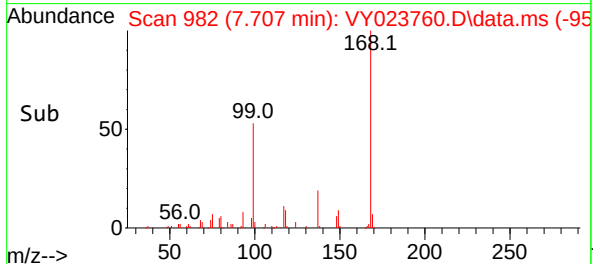
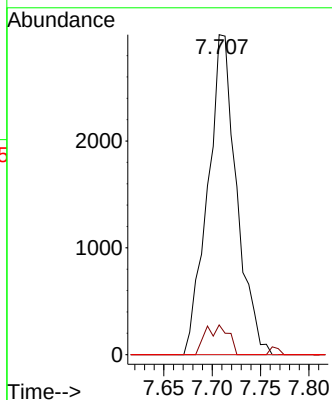
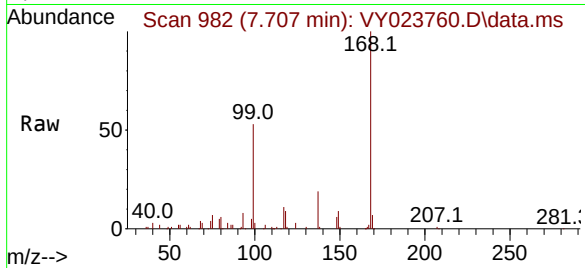




#38  
Carbon Tetrachloride  
Concen: 5.370 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

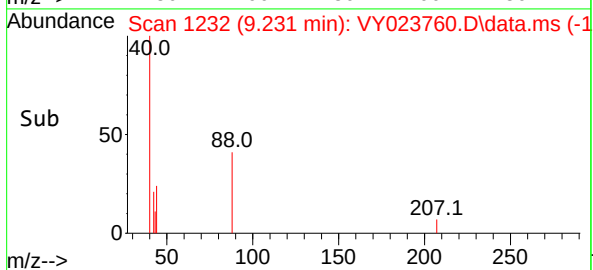
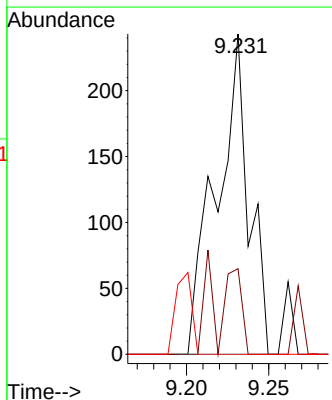
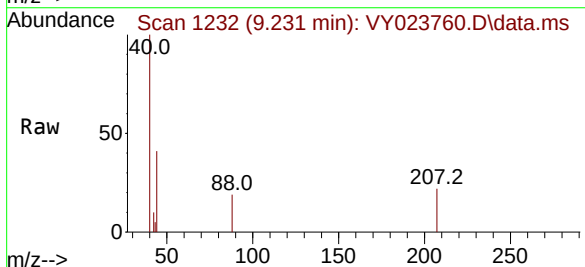
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-2RE

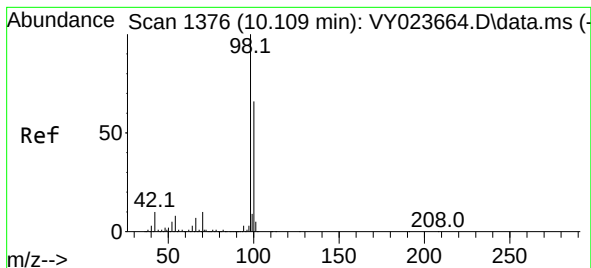
Tgt Ion:117 Resp: 6222  
Ion Ratio Lower Upper  
117 100  
119 9.3 76.3 114.5#  
121 0.0 24.8 37.2#



#49  
1,4-Dioxane  
Concen: 76.310 ug/l  
RT: 9.231 min Scan# 1232  
Delta R.T. 0.000 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

Tgt Ion: 88 Resp: 331  
Ion Ratio Lower Upper  
88 100  
43 13.9 22.0 33.0#  
58 0.0 47.8 71.8#

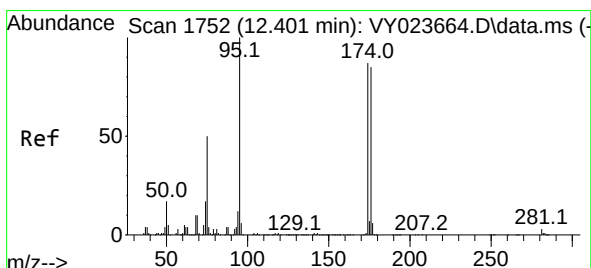
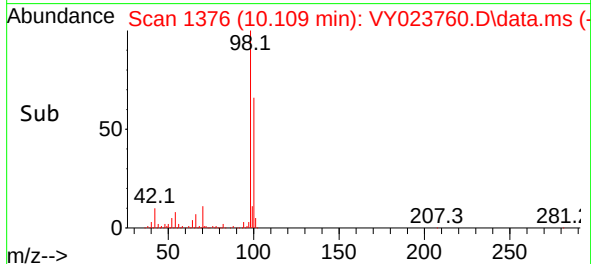
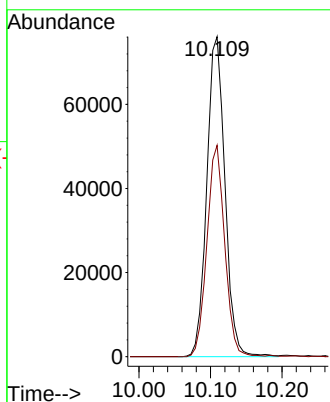
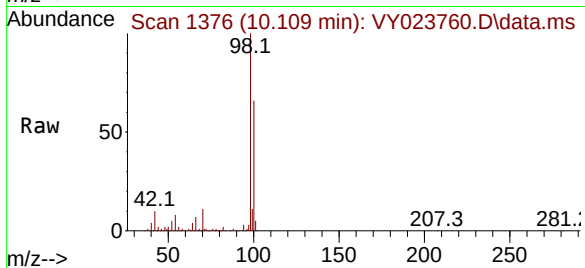




#50  
Toluene-d8  
Concen: 48.946 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.000 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

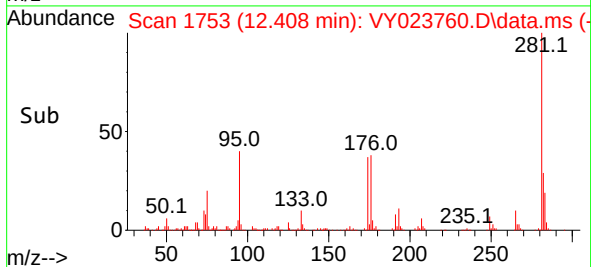
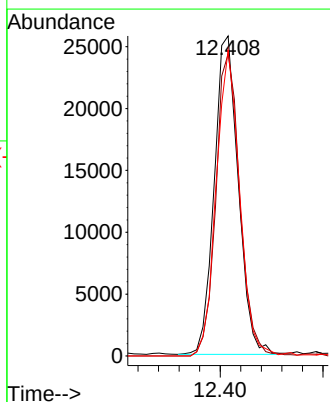
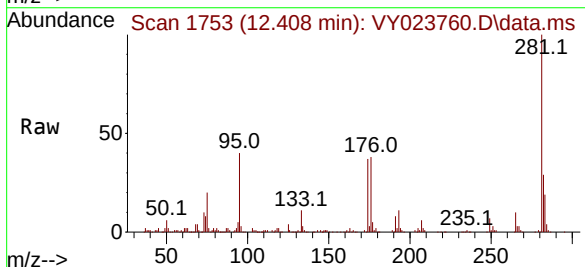
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-2RE

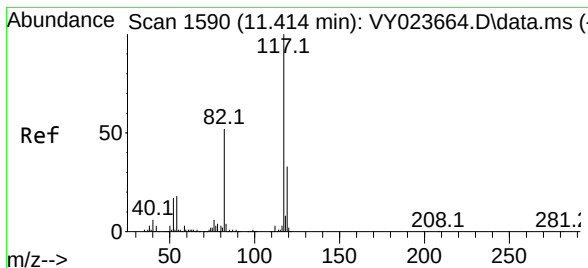
Tgt Ion: 98 Resp: 134169  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.7 79.1



#62  
4-Bromofluorobenzene  
Concen: 47.007 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

Tgt Ion: 95 Resp: 41670  
Ion Ratio Lower Upper  
95 100  
174 94.7 0.0 184.8  
176 93.7 0.0 181.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 115570

Delta R.T. 0.000 min

Lab File: VY023760.D

Acq: 12 Nov 2025 13:38

Instrument :

MSVOA\_Y

ClientSampleId :

SED-2RE

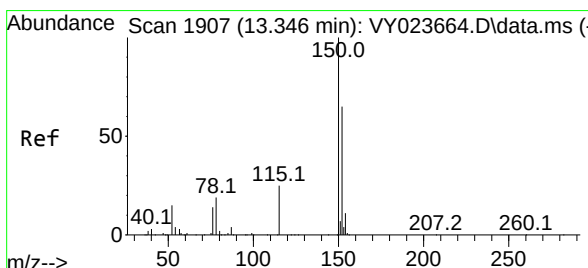
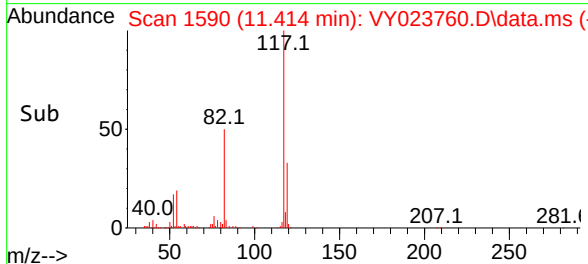
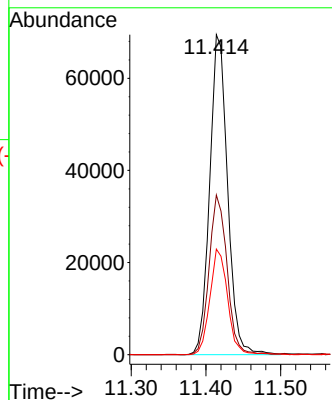
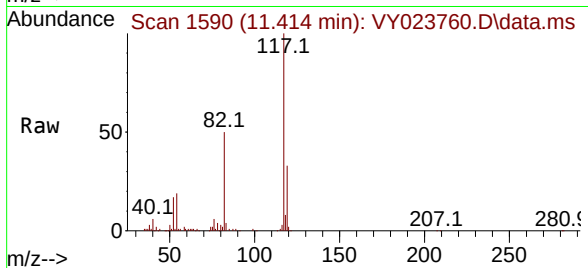
Tgt Ion:117 Resp: 115570

Ion Ratio Lower Upper

117 100

82 49.9 41.2 61.8

119 33.0 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023760.D

Acq: 12 Nov 2025 13:38

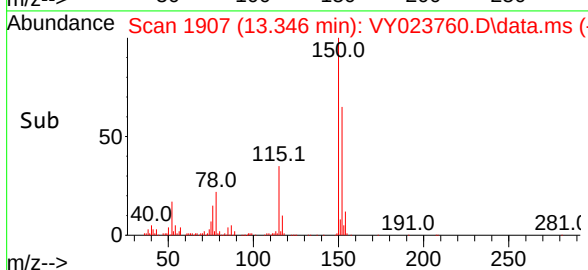
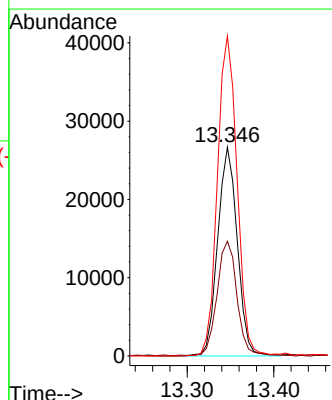
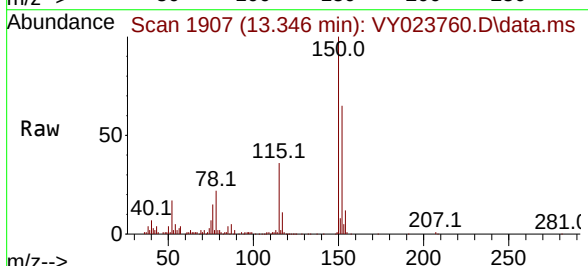
Tgt Ion:152 Resp: 41947

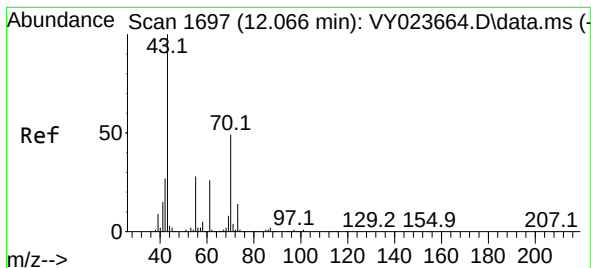
Ion Ratio Lower Upper

152 100

115 56.3 27.5 82.5

150 153.6 0.0 349.0





#74

N-amy1 acetate

Concen: 1.185 ug/l

RT: 12.054 min Scan# 1

Delta R.T. -0.012 min

Lab File: VY023760.D

Acq: 12 Nov 2025 13:38

Instrument :

MSVOA\_Y

ClientSampleId :

SED-2RE

Tgt Ion: 43 Resp: 563

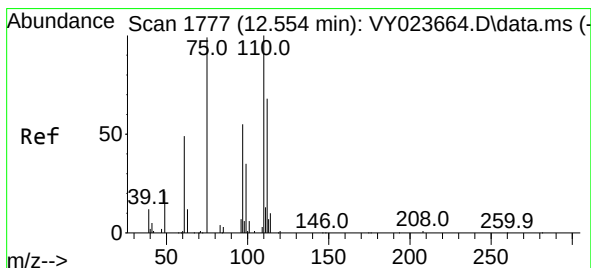
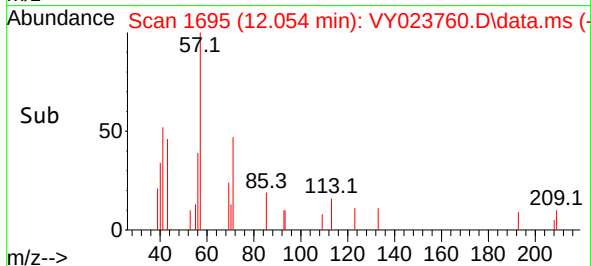
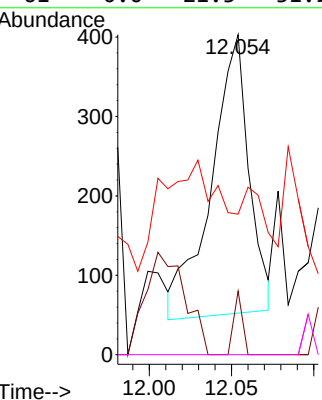
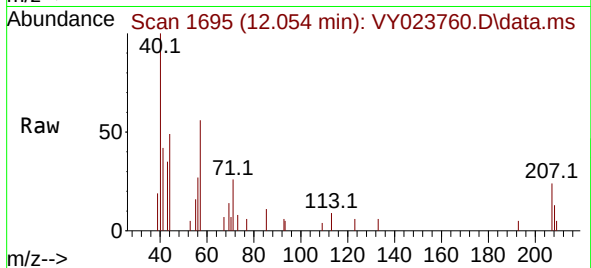
Ion Ratio Lower Upper

43 100

70 5.2 40.1 60.1#

55 0.0 23.0 34.6#

61 0.0 21.3 31.9#



#76

1,2,3-Trichloropropane

Concen: 65.915 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023760.D

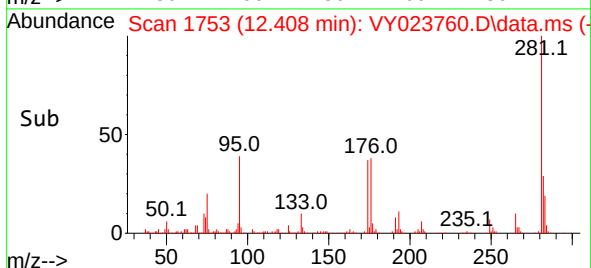
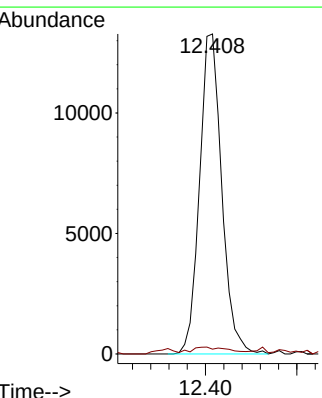
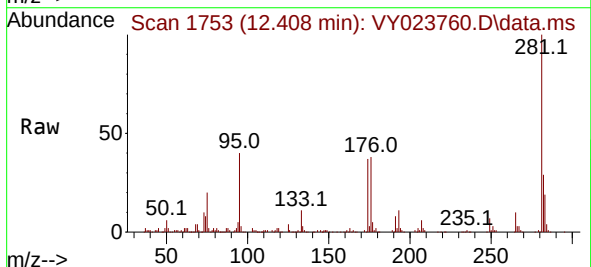
Acq: 12 Nov 2025 13:38

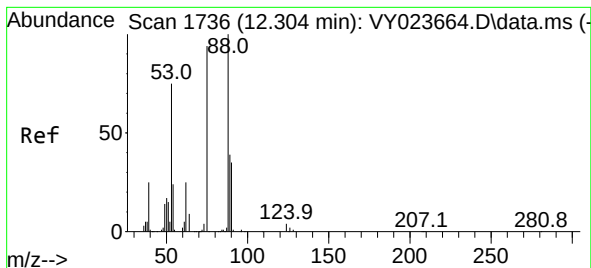
Tgt Ion: 75 Resp: 22377

Ion Ratio Lower Upper

75 100

77 3.1 0.0 0.0#

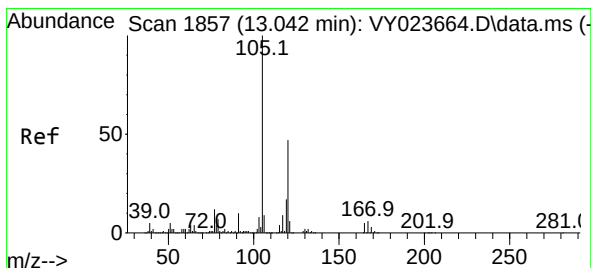
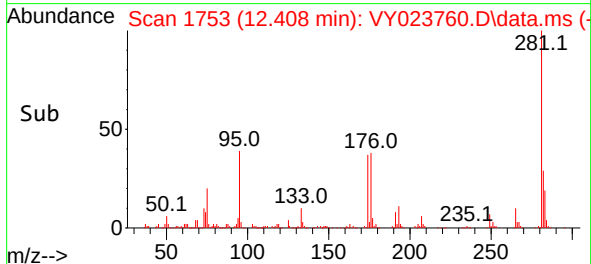
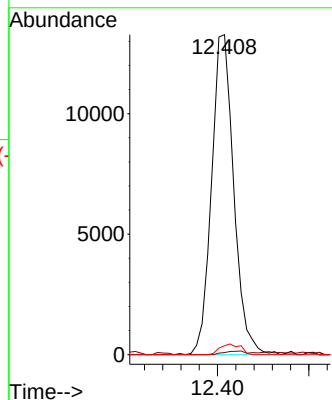
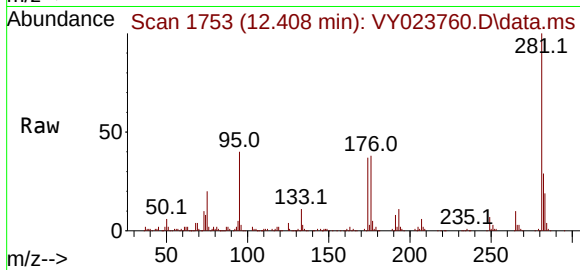




#81  
trans-1,4-Dichloro-2-butene  
Concen: 148.964 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.104 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

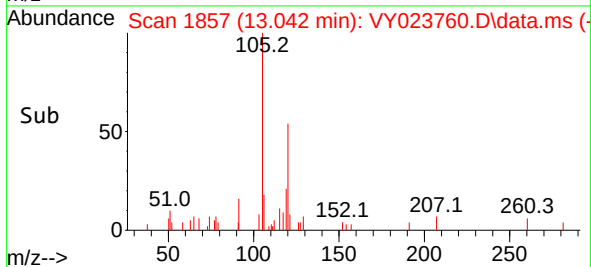
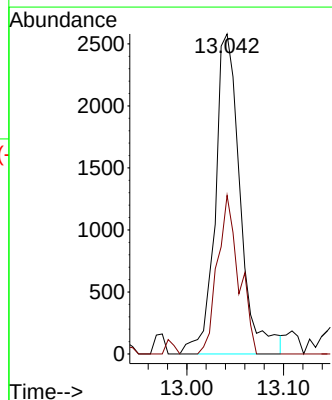
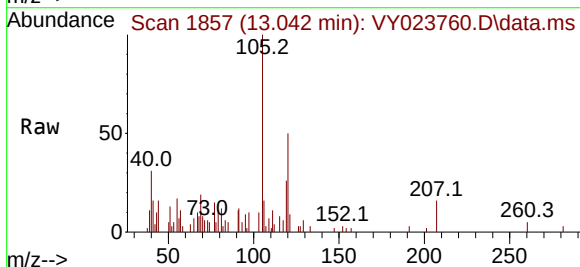
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SED-2RE

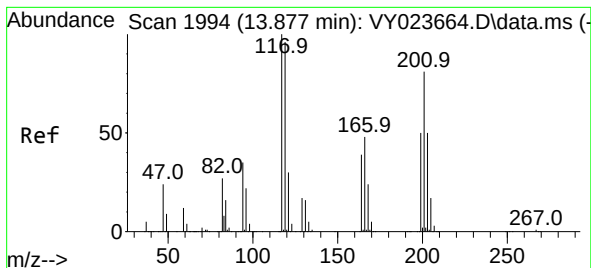
Tgt Ion: 75 Resp: 22377  
Ion Ratio Lower Upper  
75 100  
53 1.3 69.6 104.4#  
89 3.1 38.2 57.4#



#84  
1,2,4-Trimethylbenzene  
Concen: 2.061 ug/l  
RT: 13.042 min Scan# 1857  
Delta R.T. 0.000 min  
Lab File: VY023760.D  
Acq: 12 Nov 2025 13:38

Tgt Ion: 105 Resp: 4652  
Ion Ratio Lower Upper  
105 100  
120 42.6 23.2 69.6





#90

Hexachloroethane

Concen: 1.742 ug/l

RT: 13.895 min Scan# 1997

Delta R.T. 0.018 min

Lab File: VY023760.D

Acq: 12 Nov 2025 13:38

Instrument :

MSVOA\_Y

ClientSampleId :

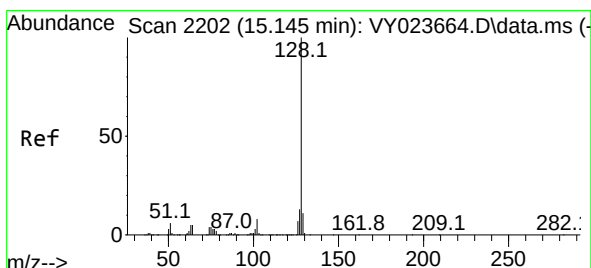
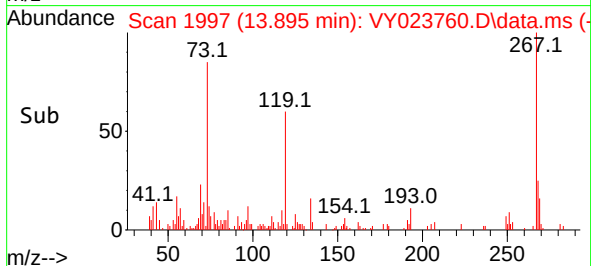
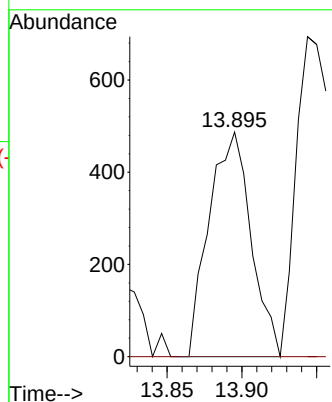
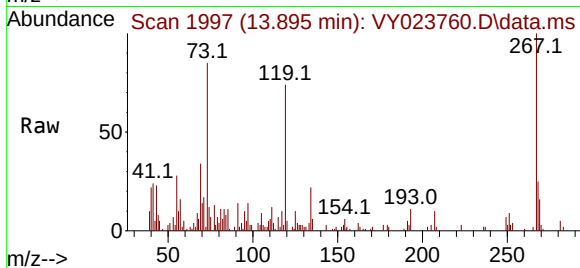
SED-2RE

Tgt Ion:117 Resp: 949

Ion Ratio Lower Upper

117 100

201 0.0 42.3 126.8#



#95

Naphthalene

Concen: 5.841 ug/l

RT: 15.139 min Scan# 2201

Delta R.T. -0.006 min

Lab File: VY023760.D

Acq: 12 Nov 2025 13:38

Tgt Ion:128 Resp: 799

Ion Ratio Lower Upper

128 100

127 46.3 10.5 15.7#

129 43.1 8.8 13.2#

