

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW081425\  
 Data File : VW032093.D  
 Acq On : 14 Aug 2025 15:01  
 Operator : SY/MD  
 Sample : Q2820-10  
 Misc : 5.39g/5mL/MSVOA\_W/SOIL/A  
 ALS Vial : 17 Sample Multiplier: 1

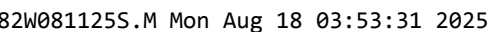
Instrument :  
 MSVOA\_W  
 ClientSampleId :

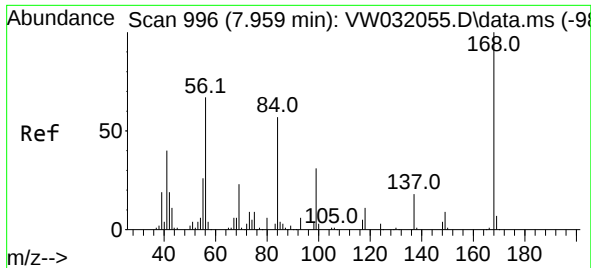
Quant Time: Aug 18 03:53:18 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W081125S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 12 04:04:48 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon           | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|---------|----------|----------|
| -----                         |        |                |          |         |          |          |
| Internal Standards            |        |                |          |         |          |          |
| 1) Pentafluorobenzene         | 7.965  | 168            | 131941   | 50.000  | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.849  | 114            | 266004   | 50.000  | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 11.636 | 117            | 258211   | 50.000  | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.556 | 152            | 103366   | 50.000  | ug/l     | 0.00     |
| System Monitoring Compounds   |        |                |          |         |          |          |
| 33) 1,2-Dichloroethane-d4     | 8.319  | 65             | 113358   | 59.405  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 63 - 155 | Recovery | =       | 118.800% |          |
| 35) Dibromofluoromethane      | 7.904  | 113            | 97310    | 56.625  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 70 - 134 | Recovery | =       | 113.260% |          |
| 50) Toluene-d8                | 10.325 | 98             | 318544   | 50.116  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 123 | Recovery | =       | 100.240% |          |
| 62) 4-Bromofluorobenzene      | 12.617 | 95             | 102332   | 43.688  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 17 - 146 | Recovery | =       | 87.380%  |          |
| Target Compounds              |        |                |          |         |          |          |
|                               |        |                |          |         | Qvalue   |          |
| 11) Tert butyl alcohol        | 5.216  | 59             | 302      | 2.444   | ug/l #   | 4        |
| 13) Acrolein                  | 3.930  | 56             | 302      | 1.534   | ug/l #   | 38       |
| 16) Acetone                   | 4.167  | 43             | 21181    | 47.942  | ug/l     | 97       |
| 17) Carbon Disulfide          | 4.430  | 76             | 14886    | 3.466   | ug/l     | 98       |
| 18) Methyl Acetate            | 4.710  | 43             | 1937     | 1.386   | ug/l #   | 68       |
| 20) Methylene Chloride        | 4.954  | 84             | 9675     | 4.736   | ug/l     | 95       |
| 25) 2-Butanone                | 7.203  | 43             | 2326     | 3.704   | ug/l #   | 81       |
| 31) Cyclohexane               | 7.959  | 56             | 3808     | 1.400   | ug/l #   | 12       |
| 36) 1,1-Dichloropropene       | 7.959  | 75             | 12241    | 5.053   | ug/l #   | 52       |
| 38) Carbon Tetrachloride      | 7.959  | 117            | 15615    | 6.679   | ug/l #   | 19       |
| 49) 1,4-Dioxane               | 9.453  | 88             | 19       | 1.252   | ug/l #   | 1        |
| 76) 1,2,3-Trichloropropane    | 12.617 | 75             | 58114    | 41.424  | ug/l #   | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.617 | 75             | 58114    | 107.242 | ug/l #   | 9        |
| -----                         |        |                |          |         |          |          |

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

Quant Time: Aug 18 03:53:18 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W081125S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 12 04:04:48 2025  
Response via : Initial Calibration

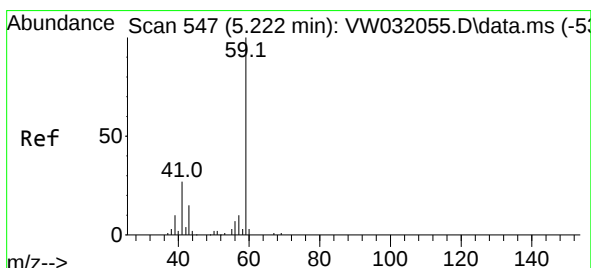
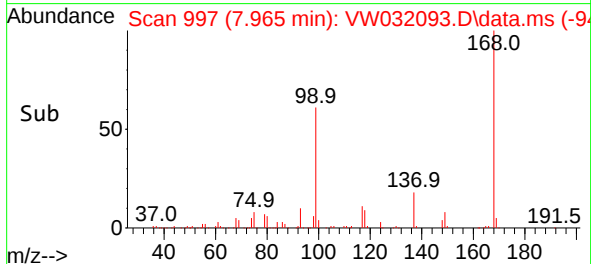
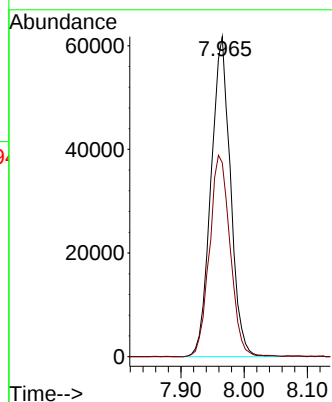
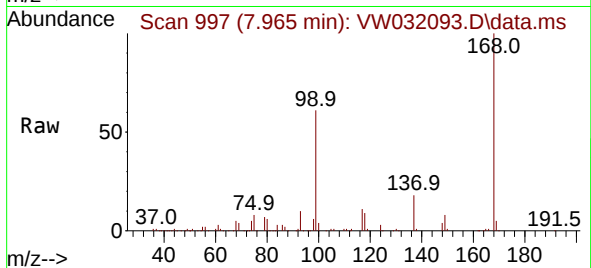




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.965 min Scan# 99  
Delta R.T. 0.006 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

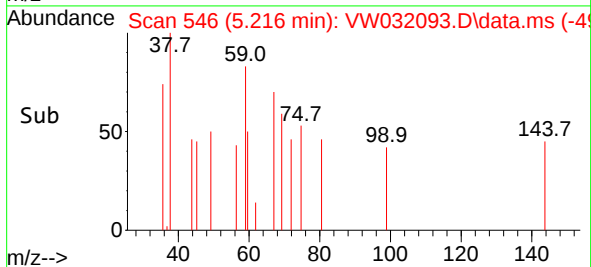
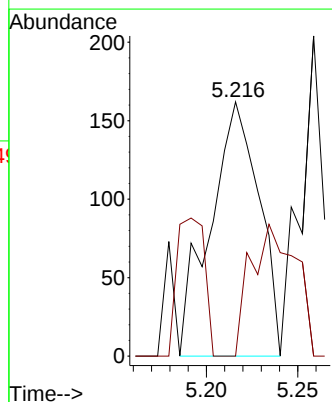
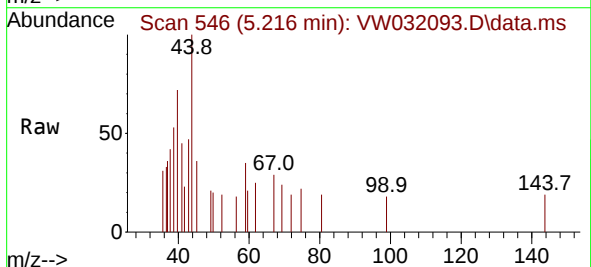
Instrument :  
MSVOA\_W  
ClientSampleId :

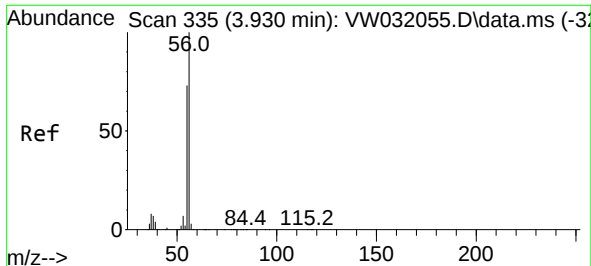
Tgt Ion:168 Resp: 131941  
Ion Ratio Lower Upper  
168 100  
99 60.6 56.0 84.0



#11  
Tert butyl alcohol  
Concen: 2.444 ug/l  
RT: 5.216 min Scan# 546  
Delta R.T. -0.006 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

Tgt Ion: 59 Resp: 302  
Ion Ratio Lower Upper  
59 100  
57 47.4 8.7 13.1#

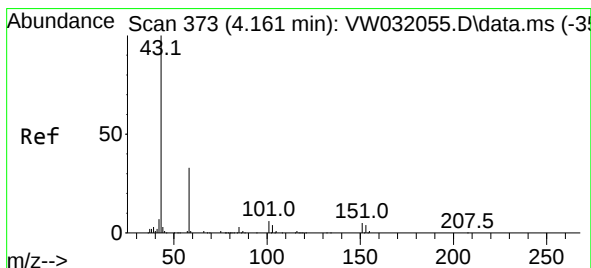
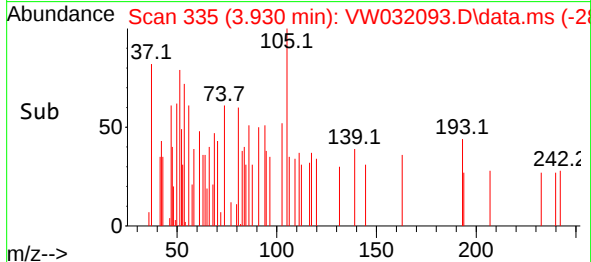
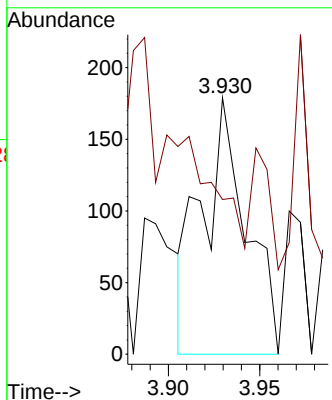
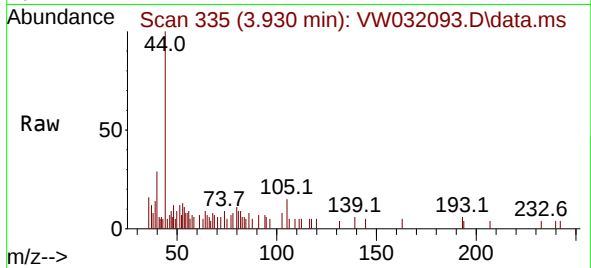




#13  
Acrolein  
Concen: 1.534 ug/l  
RT: 3.930 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

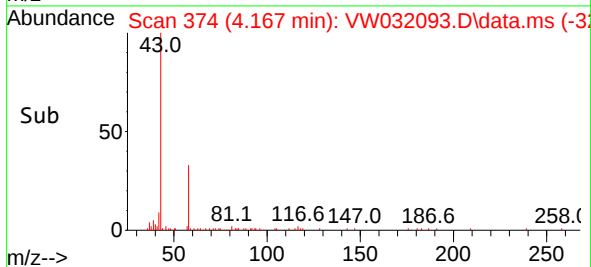
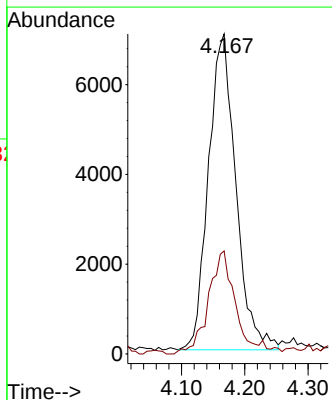
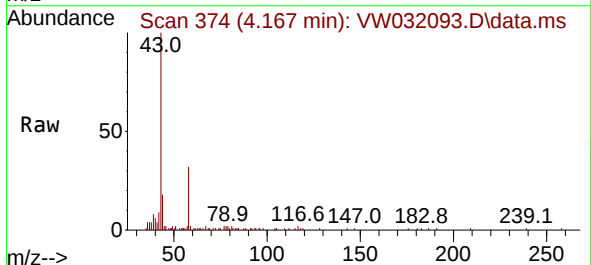
Instrument :  
MSVOA\_W  
ClientSampleId :

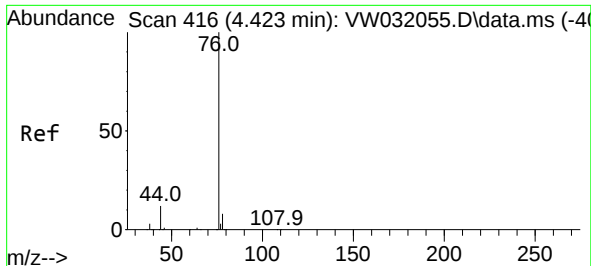
Tgt Ion: 56 Resp: 302  
Ion Ratio Lower Upper  
56 100  
55 18.9 55.4 83.2#



#16  
Acetone  
Concen: 47.942 ug/l  
RT: 4.167 min Scan# 374  
Delta R.T. 0.006 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

Tgt Ion: 43 Resp: 21181  
Ion Ratio Lower Upper  
43 100  
58 31.8 26.6 39.8

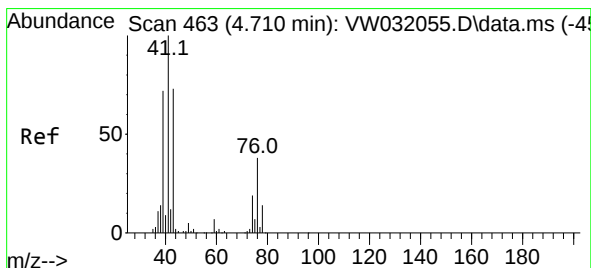
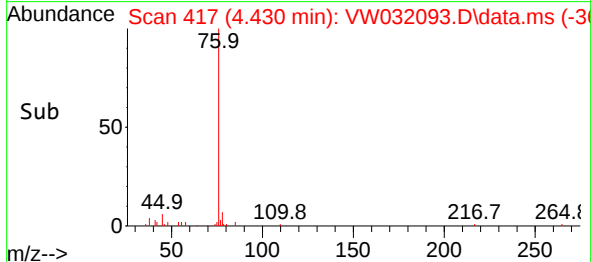
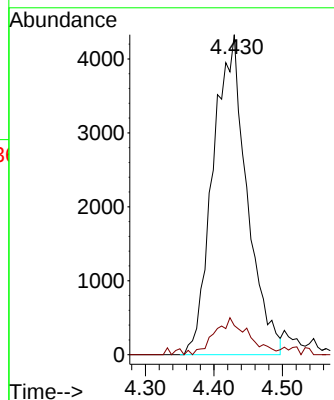
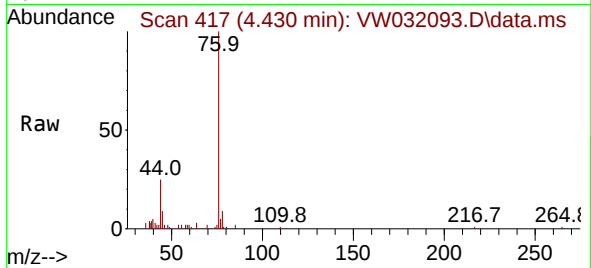




#17  
Carbon Disulfide  
Concen: 3.466 ug/l  
RT: 4.430 min Scan# 416  
Delta R.T. 0.006 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

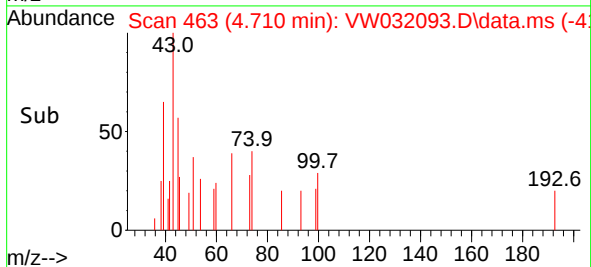
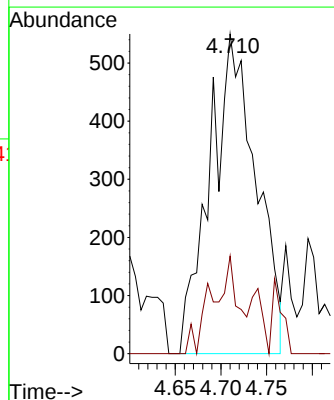
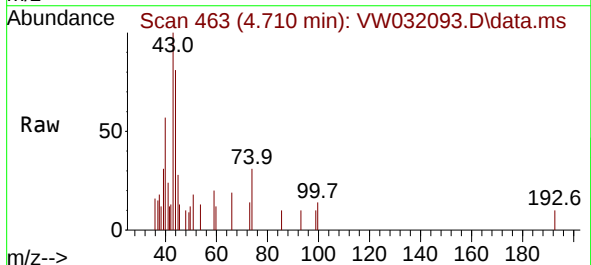
Instrument :  
MSVOA\_W  
ClientSampleId :

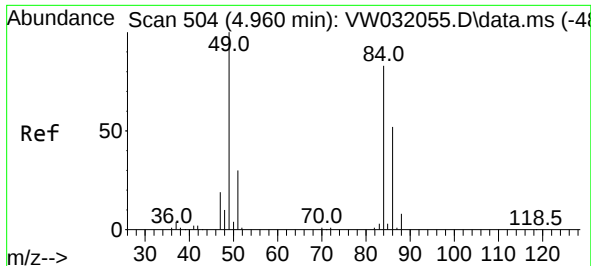
Tgt Ion: 76 Resp: 14886  
Ion Ratio Lower Upper  
76 100  
78 8.8 6.4 9.6



#18  
Methyl Acetate  
Concen: 1.386 ug/l  
RT: 4.710 min Scan# 463  
Delta R.T. 0.000 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

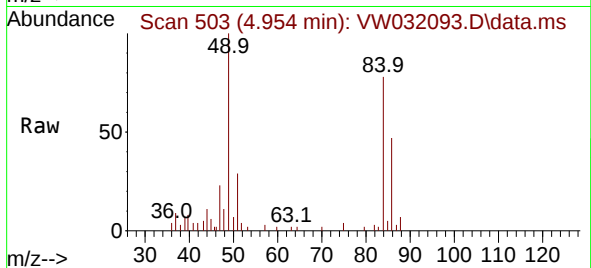
Tgt Ion: 43 Resp: 1937  
Ion Ratio Lower Upper  
43 100  
74 9.3 20.6 31.0#



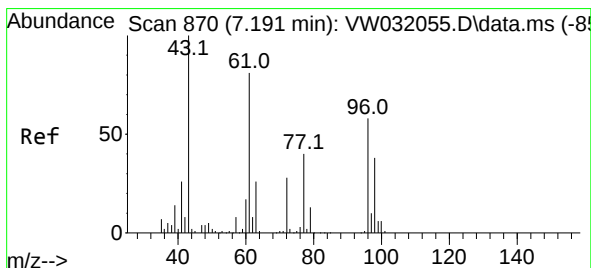
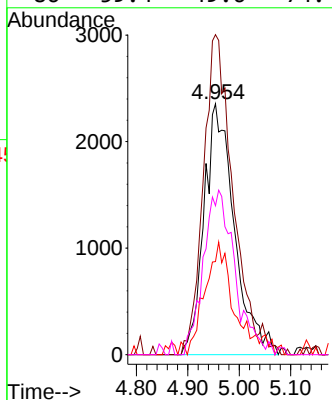
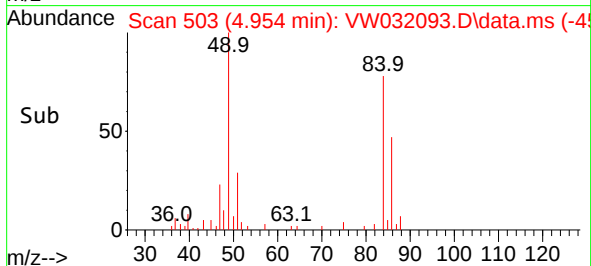


#20  
Methylene Chloride  
Concen: 4.736 ug/l  
RT: 4.954 min Scan# 504  
Delta R.T. -0.006 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

Instrument :  
MSVOA\_W  
ClientSampleId :

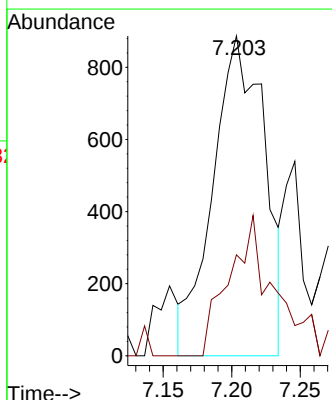
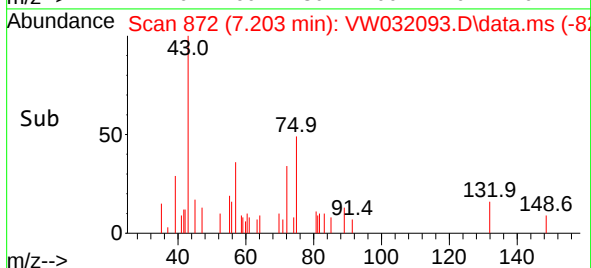
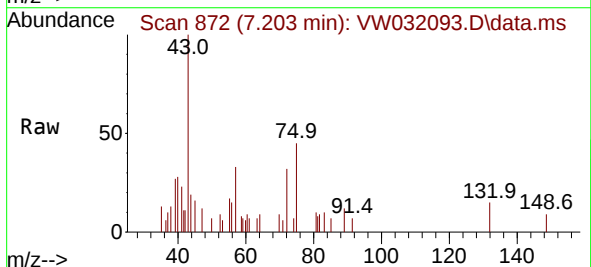


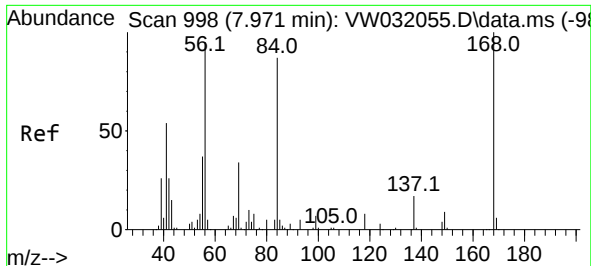
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 9675  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 127.6    | 95.9 143.9  |
| 51 37.2     | 28.6 43.0   |
| 86 59.4     | 49.6 74.4   |



#25  
2-Butanone  
Concen: 3.704 ug/l  
RT: 7.203 min Scan# 872  
Delta R.T. 0.012 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

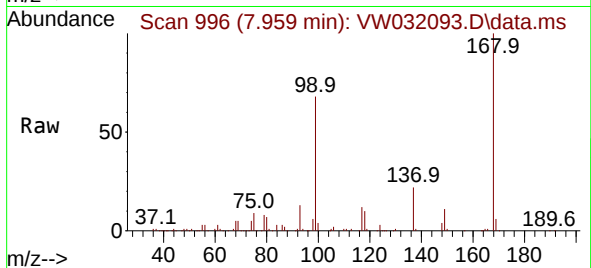
|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion: 43 | Resp: 2326 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 43 100      |            |       |  |
| 72 37.6     | 22.3       | 33.5# |  |



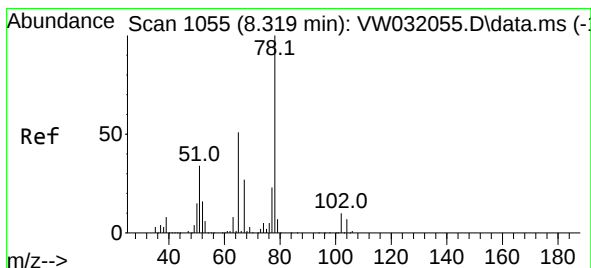
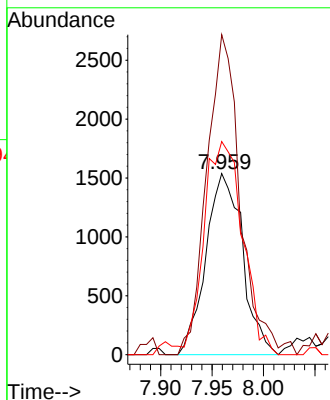
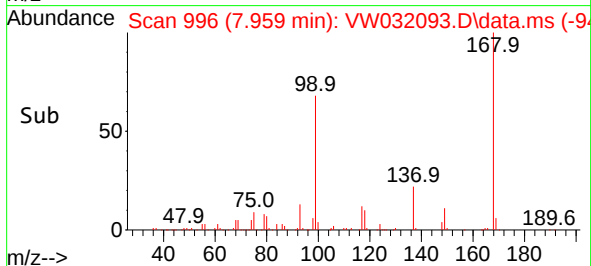


#31  
Cyclohexane  
Concen: 1.400 ug/l  
RT: 7.959 min Scan# 998  
Delta R.T. -0.012 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

Instrument :  
MSVOA\_W  
ClientSampleId :

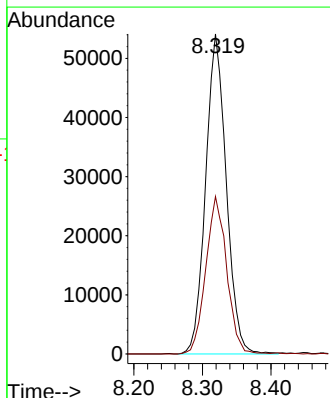
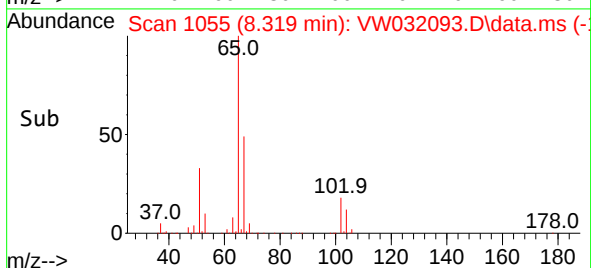
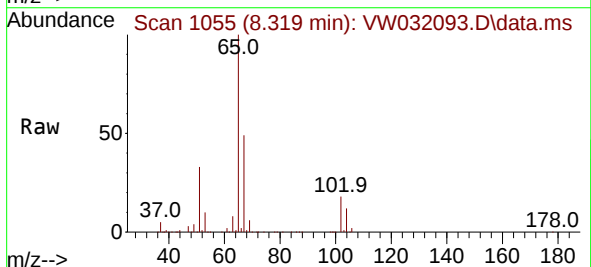


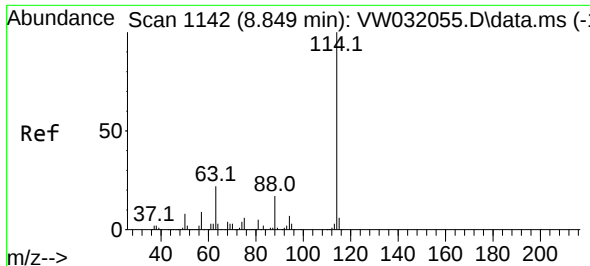
Tgt Ion: 56 Resp: 3808  
Ion Ratio Lower Upper  
56 100  
69 176.8 28.6 42.8#  
84 117.7 73.0 109.4#



#33  
1,2-Dichloroethane-d4  
Concen: 59.405 ug/l  
RT: 8.319 min Scan# 1055  
Delta R.T. 0.000 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

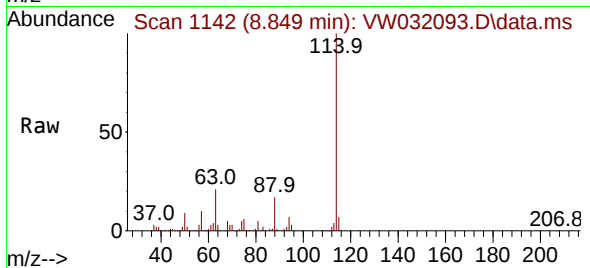
Tgt Ion: 65 Resp: 113358  
Ion Ratio Lower Upper  
65 100  
67 49.9 0.0 102.4



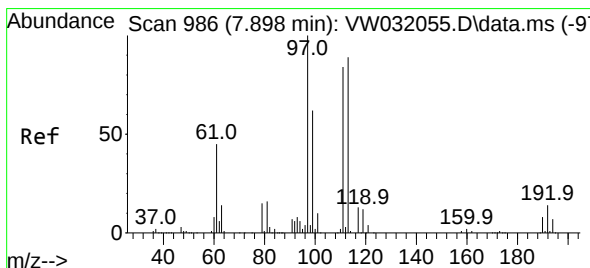
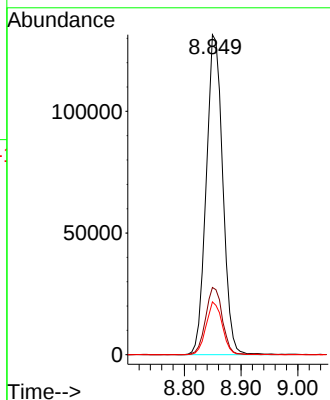
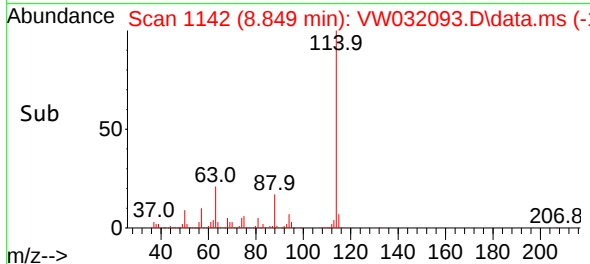


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.849 min Scan# 1142  
 Delta R.T. 0.000 min  
 Lab File: VW032093.D  
 Acq: 14 Aug 2025 15:01

Instrument :  
 MSVOA\_W  
 ClientSampleId :

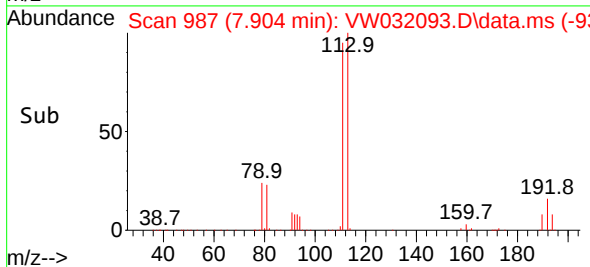
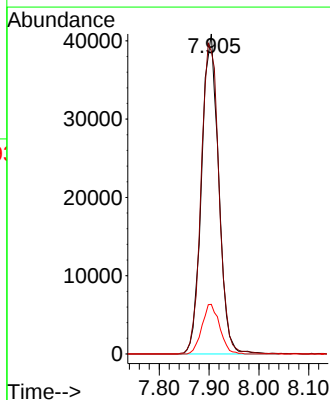
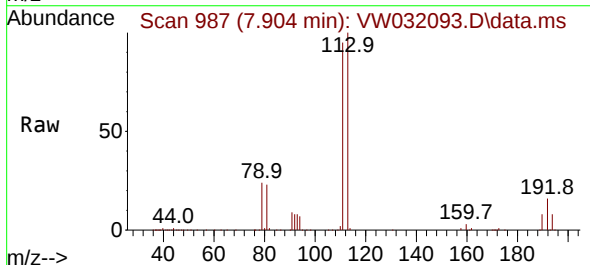


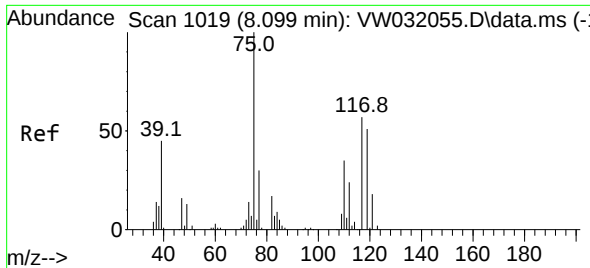
Tgt Ion:114 Resp: 266004  
 Ion Ratio Lower Upper  
 114 100  
 63 21.0 0.0 43.0  
 88 16.5 0.0 33.8



#35  
 Dibromofluoromethane  
 Concen: 56.625 ug/l  
 RT: 7.904 min Scan# 987  
 Delta R.T. 0.006 min  
 Lab File: VW032093.D  
 Acq: 14 Aug 2025 15:01

Tgt Ion:113 Resp: 97310  
 Ion Ratio Lower Upper  
 113 100  
 111 101.5 80.1 120.1  
 192 16.1 13.1 19.7

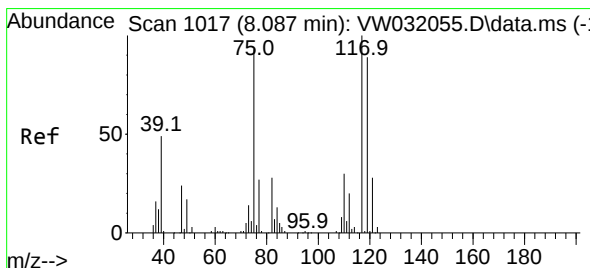
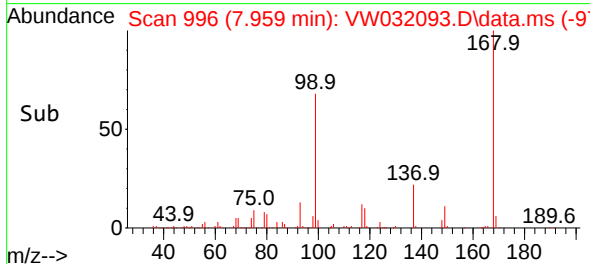
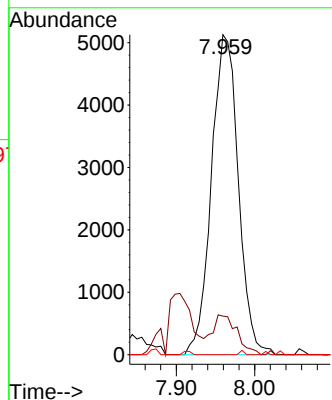
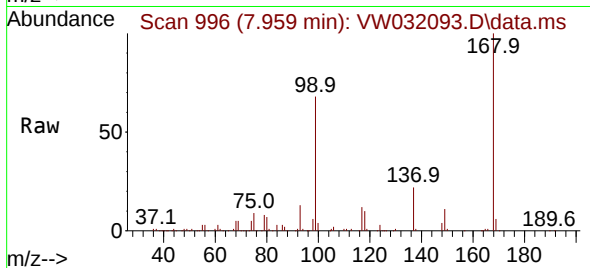




#36  
1,1-Dichloropropene  
Concen: 5.053 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.140 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

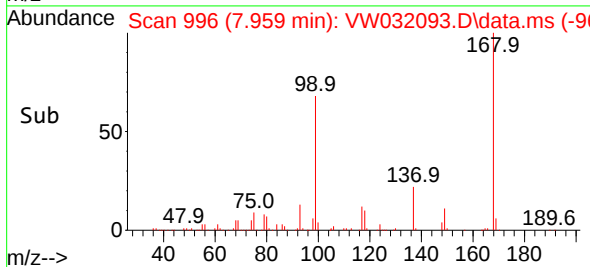
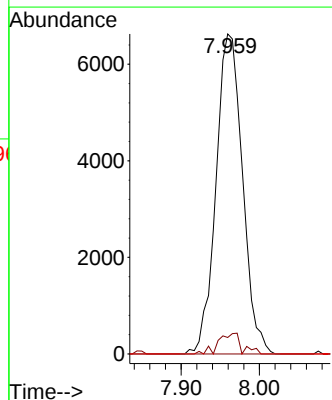
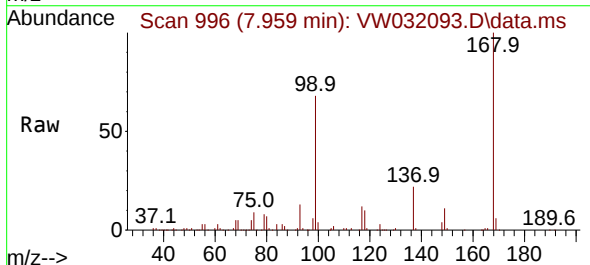
Instrument :  
MSVOA\_W  
ClientSampleId :

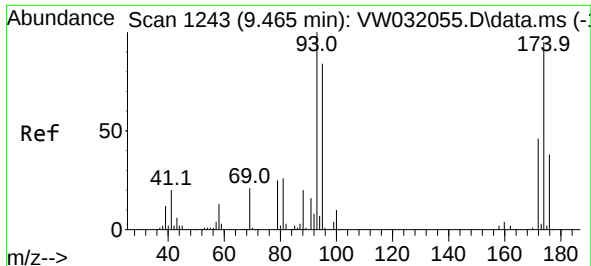
Tgt Ion: 75 Resp: 12241  
Ion Ratio Lower Upper  
75 100  
110 11.4 17.4 52.2#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.679 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.128 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

Tgt Ion: 117 Resp: 15615  
Ion Ratio Lower Upper  
117 100  
119 5.2 71.4 107.2#  
121 0.0 22.3 33.5#





#49

1,4-Dioxane

Concen: 1.252 ug/l

RT: 9.453 min Scan# 1241

Delta R.T. -0.012 min

Lab File: VW032093.D

Acq: 14 Aug 2025 15:01

Instrument :

MSVOA\_W

ClientSampleId :

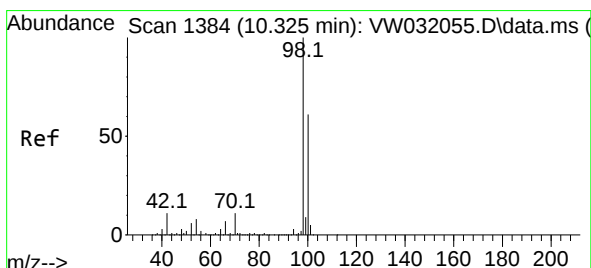
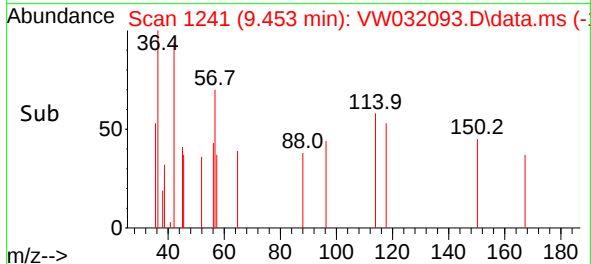
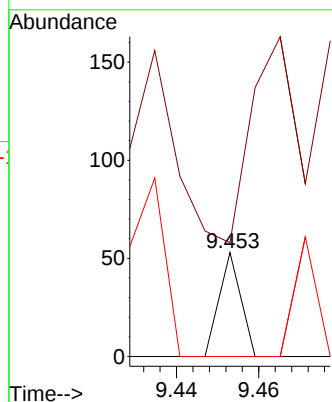
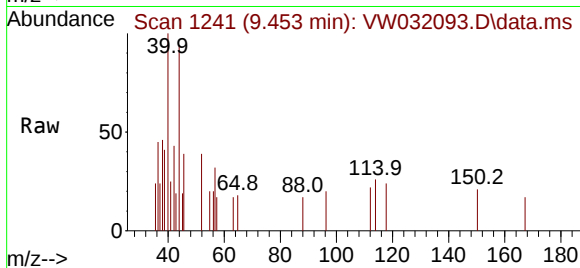
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 747.4 20.6 30.8#

58 236.8 60.4 90.6#



#50

Toluene-d8

Concen: 50.116 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VW032093.D

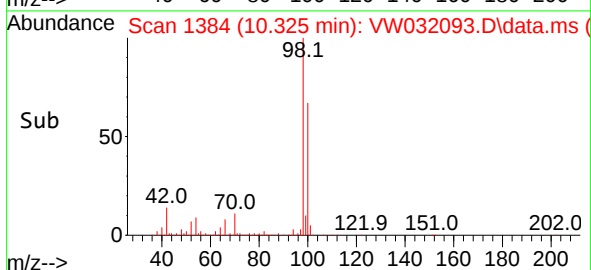
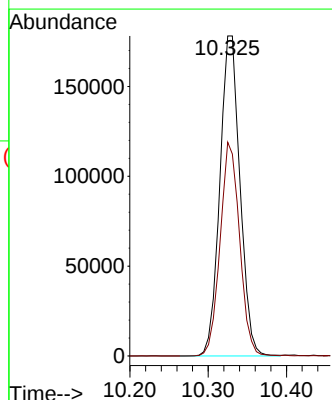
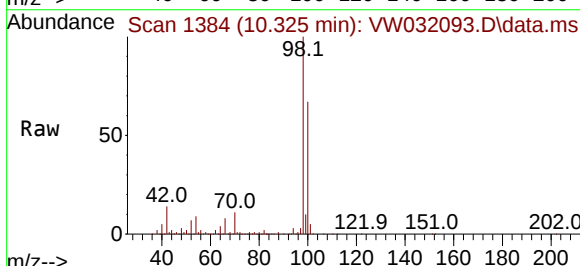
Acq: 14 Aug 2025 15:01

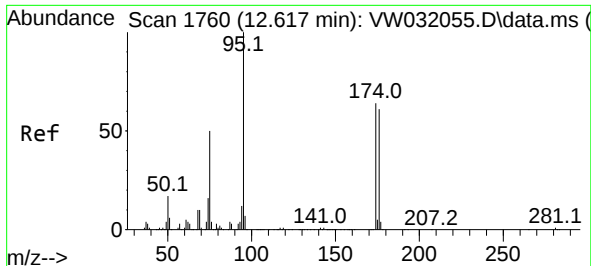
Tgt Ion: 98 Resp: 318544

Ion Ratio Lower Upper

98 100

100 64.5 51.1 76.7

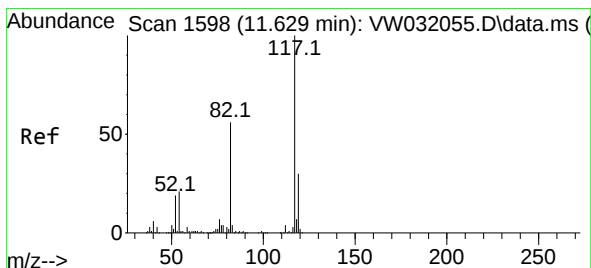
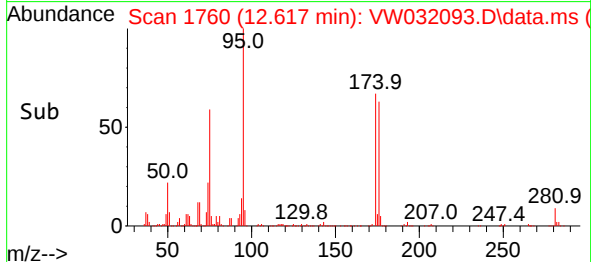
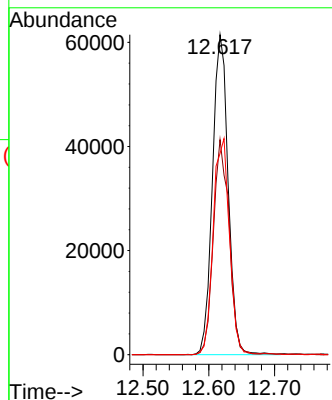
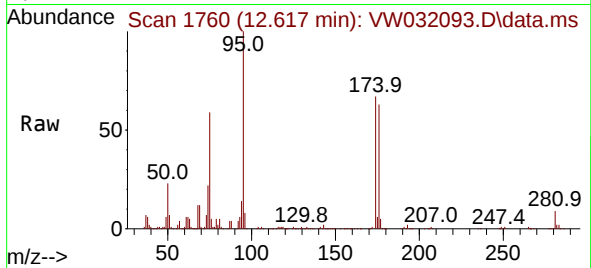




#62  
4-Bromofluorobenzene  
Concen: 43.688 ug/l  
RT: 12.617 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

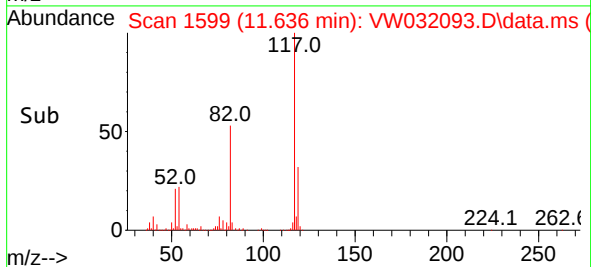
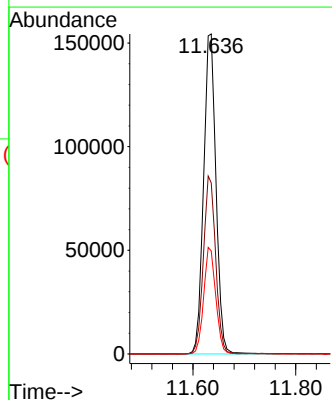
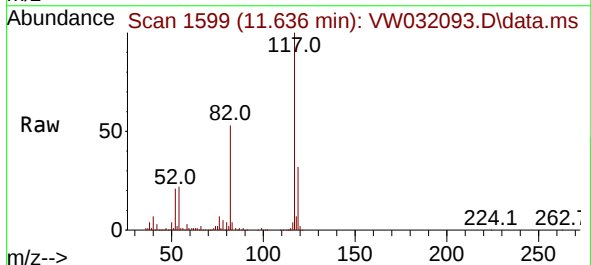
Instrument :  
MSVOA\_W  
ClientSampleId :

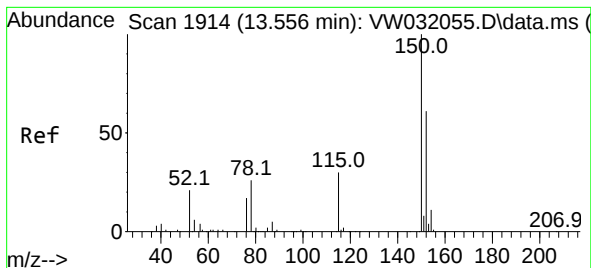
Tgt Ion: 95 Resp: 102332  
Ion Ratio Lower Upper  
95 100  
174 67.6 0.0 129.0  
176 69.9 0.0 124.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.636 min Scan# 1599  
Delta R.T. 0.006 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

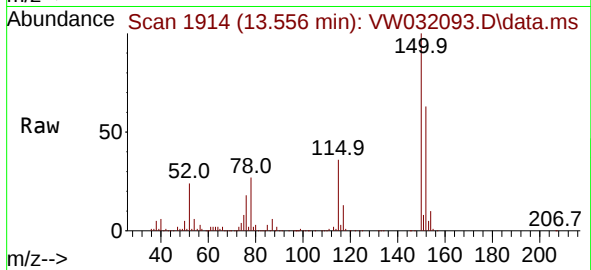
Tgt Ion: 117 Resp: 258211  
Ion Ratio Lower Upper  
117 100  
82 53.5 45.0 67.4  
119 32.2 24.2 36.4



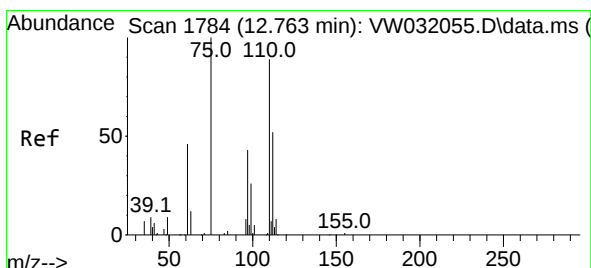
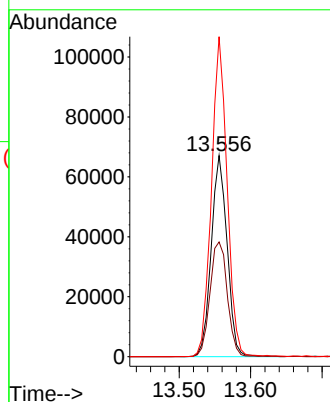
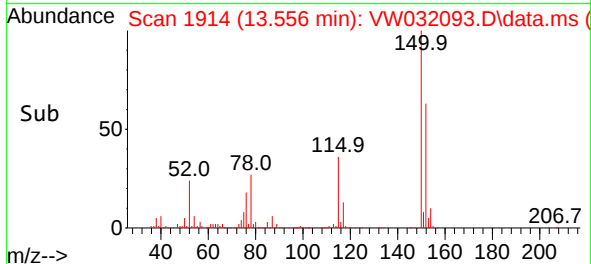


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.556 min Scan# 1914  
Delta R.T. 0.000 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

Instrument :  
MSVOA\_W  
ClientSampleId :

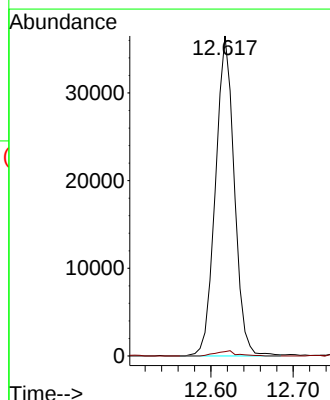
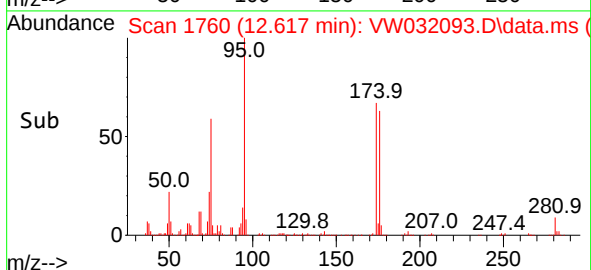
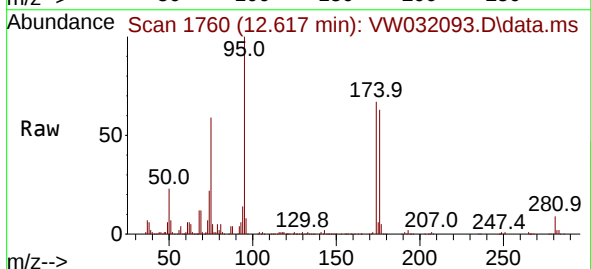


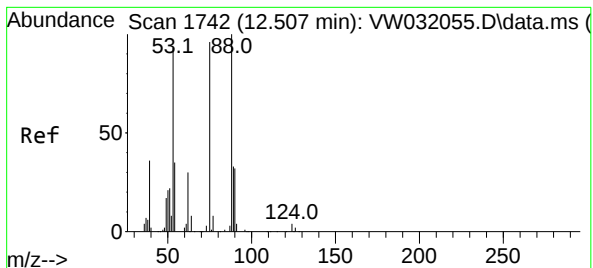
Tgt Ion:152 Resp: 103366  
Ion Ratio Lower Upper  
152 100  
115 62.6 32.6 97.8  
150 156.3 0.0 359.4



#76  
1,2,3-Trichloropropane  
Concen: 41.424 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. -0.146 min  
Lab File: VW032093.D  
Acq: 14 Aug 2025 15:01

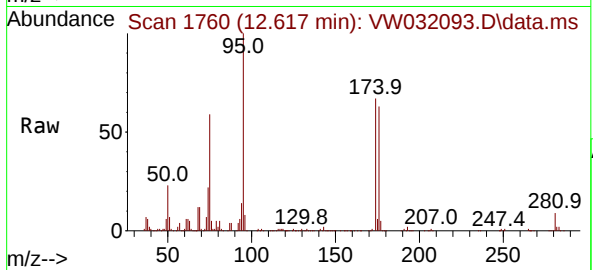
Tgt Ion: 75 Resp: 58114  
Ion Ratio Lower Upper  
75 100  
77 1.8 123.5 370.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 107.242 ug/l  
 RT: 12.617 min Scan# 11  
 Delta R.T. 0.110 min  
 Lab File: VW032093.D  
 Acq: 14 Aug 2025 15:01

Instrument :  
 MSVOA\_W  
 ClientSampleId :



Tgt Ion: 75 Resp: 58114  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 81.0 121.6#  
 89 0.0 37.3 55.9#

