

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW081425\  
 Data File : VW032092.D  
 Acq On : 14 Aug 2025 14:39  
 Operator : SY/MD  
 Sample : Q2820-09  
 Misc : 6.04g/5mL/MSVOA\_W/SOIL/A  
 ALS Vial : 16 Sample Multiplier: 1

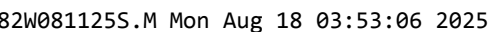
Instrument :  
 MSVOA\_W  
 ClientSampleId :

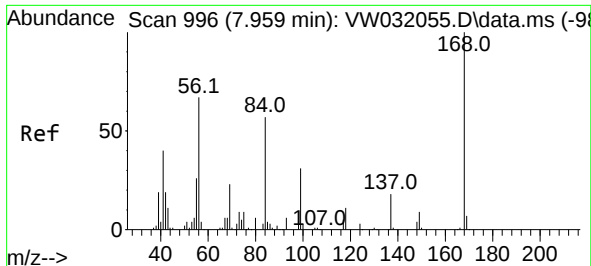
Quant Time: Aug 18 03:52:53 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W081125S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 12 04:04:48 2025  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 7.959          | 168  | 139519              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.849          | 114  | 293162              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.635         | 117  | 286216              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.556         | 152  | 129964              | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.319          | 65   | 132296              | 65.563  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 63 - 155 |      | Recovery = 131.120% |         |        |          |
| 35) Dibromofluoromethane      | 7.904          | 113  | 104800              | 55.334  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 134 |      | Recovery = 110.660% |         |        |          |
| 50) Toluene-d8                | 10.331         | 98   | 340851              | 48.657  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 123 |      | Recovery = 97.320%  |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.617         | 95   | 126079              | 48.840  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 17 - 146 |      | Recovery = 97.680%  |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         |        |          |
|                               |                |      |                     |         | Qvalue |          |
| 11) Tert butyl alcohol        | 5.228          | 59   | 164                 | 1.255   | ug/l # | 1        |
| 13) Acrolein                  | 3.936          | 56   | 413                 | 1.984   | ug/l   | 95       |
| 16) Acetone                   | 4.161          | 43   | 10275               | 21.994  | ug/l # | 85       |
| 17) Carbon Disulfide          | 4.423          | 76   | 7428                | 1.636   | ug/l   | 99       |
| 18) Methyl Acetate            | 4.710          | 43   | 1647                | 1.114   | ug/l   | 98       |
| 20) Methylene Chloride        | 4.966          | 84   | 4964                | 2.298   | ug/l # | 84       |
| 25) 2-Butanone                | 7.221          | 43   | 1719                | 2.589   | ug/l # | 87       |
| 31) Cyclohexane               | 7.953          | 56   | 4328                | 1.505   | ug/l # | 47       |
| 36) 1,1-Dichloropropene       | 7.959          | 75   | 14115               | 5.287   | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.959          | 117  | 16528               | 6.415   | ug/l # | 20       |
| 49) 1,4-Dioxane               | 9.428          | 88   | 57                  | 3.407   | ug/l # | 86       |
| 76) 1,2,3-Trichloropropane    | 12.617         | 75   | 73605               | 41.728  | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.617         | 75   | 73605               | 108.030 | ug/l # | 9        |
| -----                         |                |      |                     |         |        |          |

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

Quant Time: Aug 18 03:52:53 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

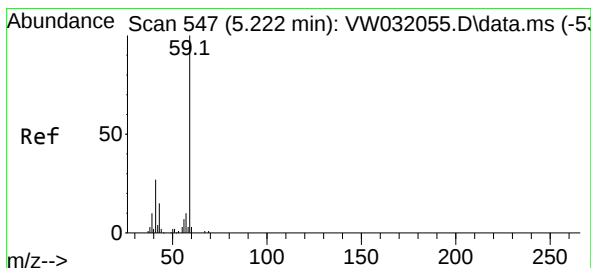
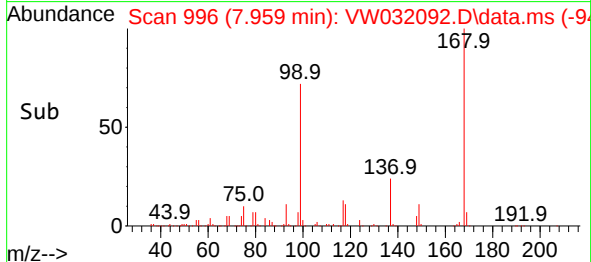
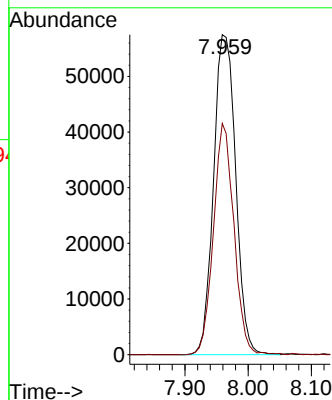
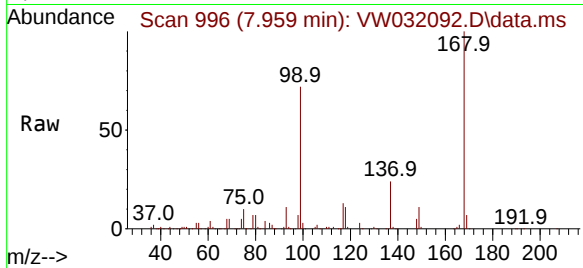




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. 0.000 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

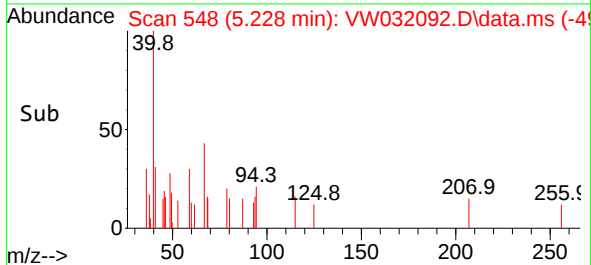
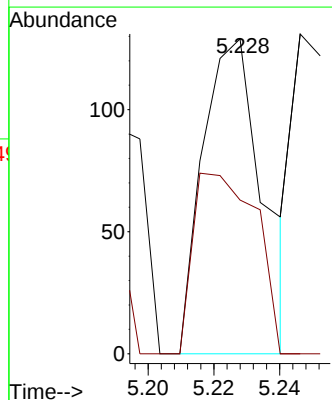
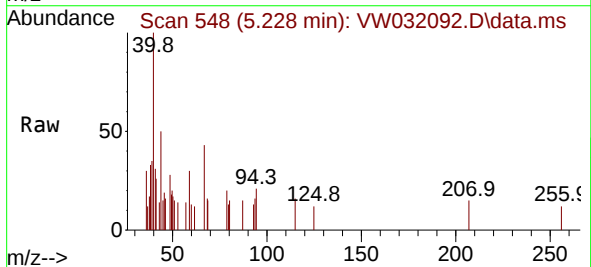
Instrument :  
MSVOA\_W  
ClientSampleId :

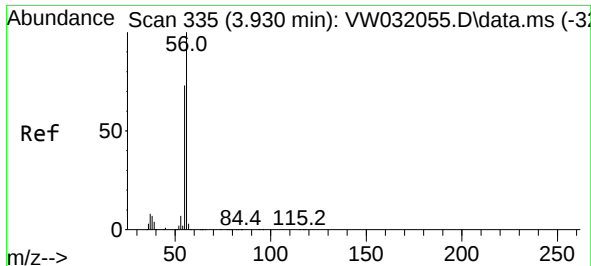
Tgt Ion:168 Resp: 139519  
Ion Ratio Lower Upper  
168 100  
99 72.2 56.0 84.0



#11  
Tert butyl alcohol  
Concen: 1.255 ug/l  
RT: 5.228 min Scan# 548  
Delta R.T. 0.006 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

Tgt Ion: 59 Resp: 164  
Ion Ratio Lower Upper  
59 100  
57 59.8 8.7 13.1#

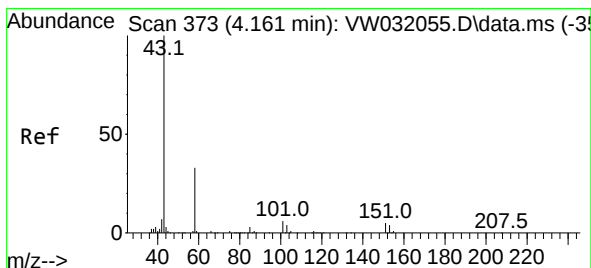
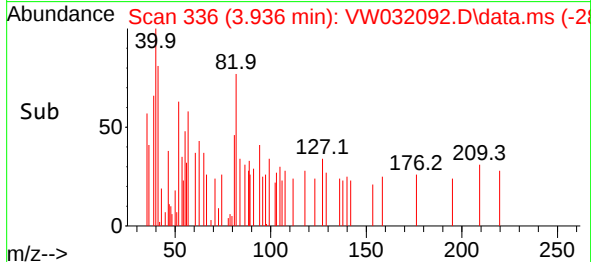
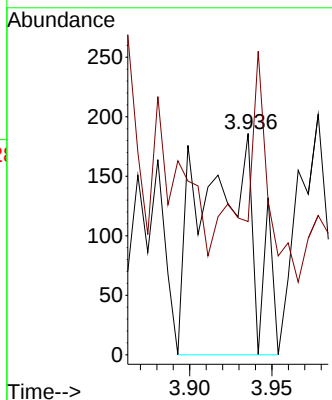
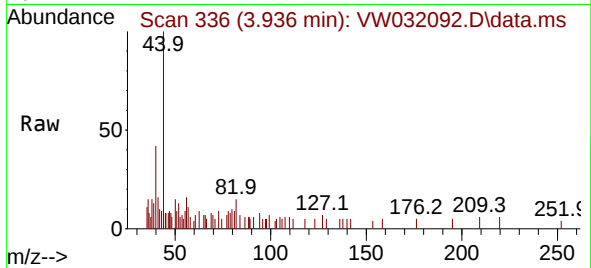




#13  
Acrolein  
Concen: 1.984 ug/l  
RT: 3.936 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

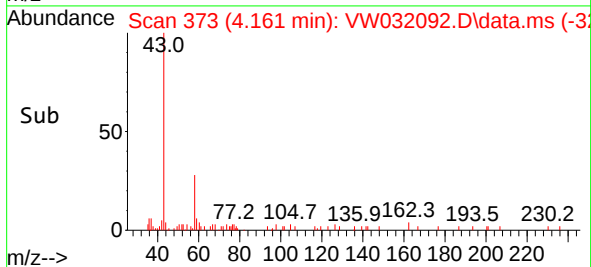
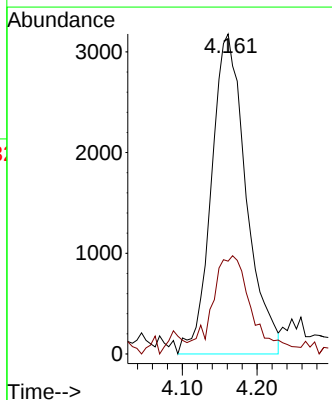
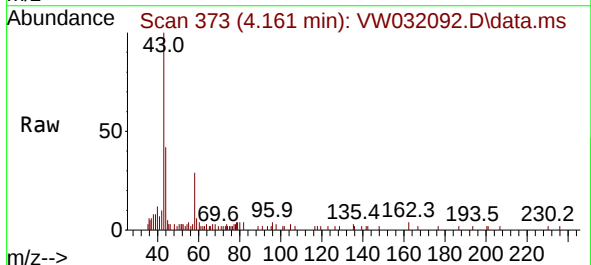
Instrument :  
MSVOA\_W  
ClientSampleId :

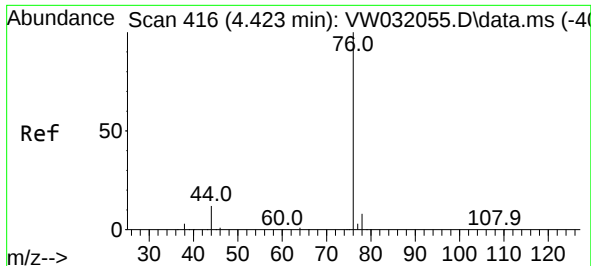
Tgt Ion: 56 Resp: 413  
Ion Ratio Lower Upper  
56 100  
55 65.1 55.4 83.2



#16  
Acetone  
Concen: 21.994 ug/l  
RT: 4.161 min Scan# 373  
Delta R.T. -0.000 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

Tgt Ion: 43 Resp: 10275  
Ion Ratio Lower Upper  
43 100  
58 24.7 26.6 39.8#

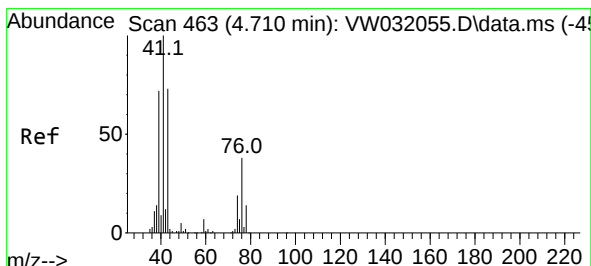
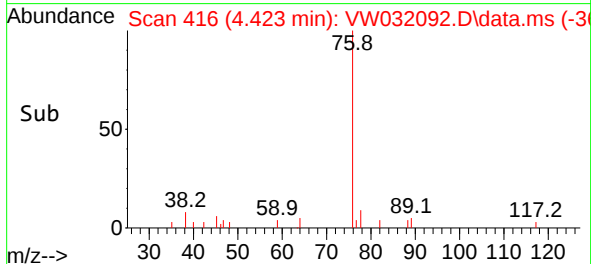
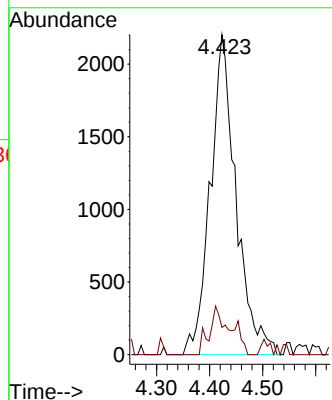
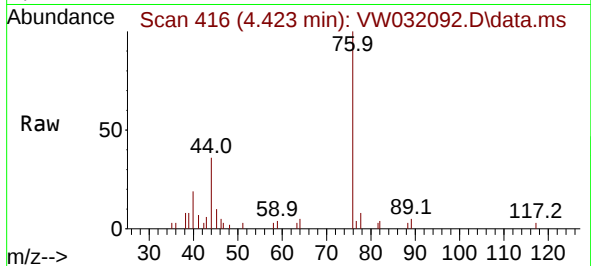




#17  
Carbon Disulfide  
Concen: 1.636 ug/l  
RT: 4.423 min Scan# 416  
Delta R.T. -0.000 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

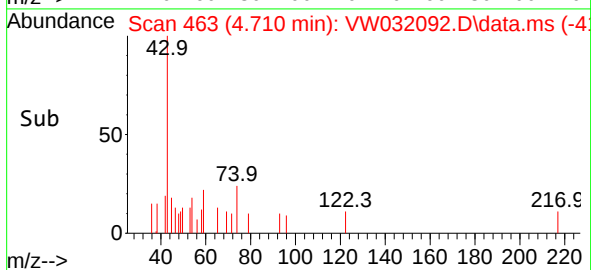
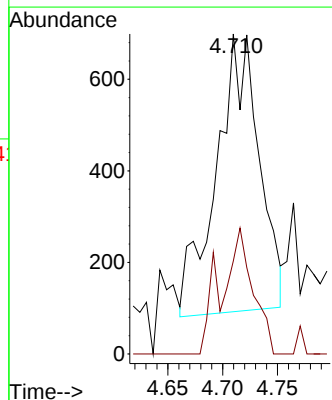
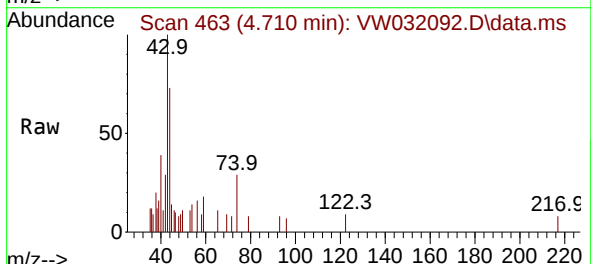
Instrument :  
MSVOA\_W  
ClientSampleId :

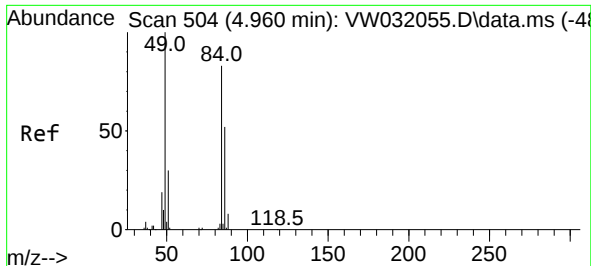
Tgt Ion: 76 Resp: 7428  
Ion Ratio Lower Upper  
76 100  
78 8.5 6.4 9.6



#18  
Methyl Acetate  
Concen: 1.114 ug/l  
RT: 4.710 min Scan# 463  
Delta R.T. -0.000 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

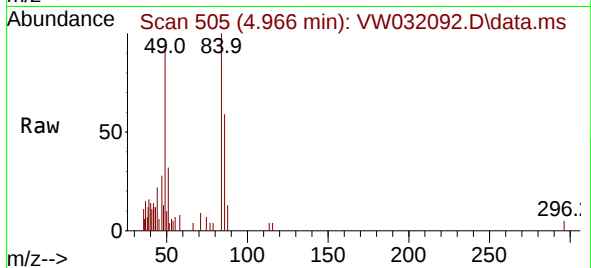
Tgt Ion: 43 Resp: 1647  
Ion Ratio Lower Upper  
43 100  
74 24.9 20.6 31.0



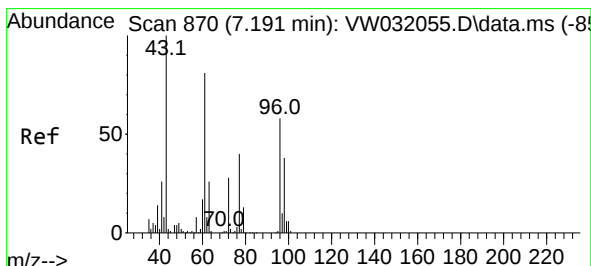
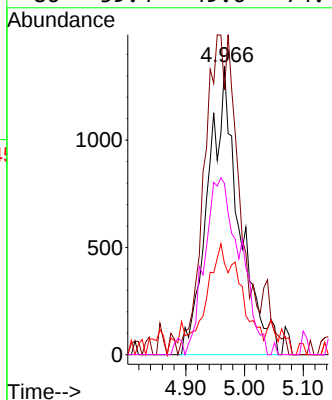
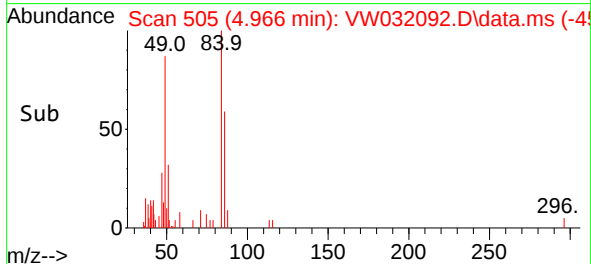


#20  
Methylene Chloride  
Concen: 2.298 ug/l  
RT: 4.966 min Scan# 504  
Delta R.T. 0.006 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

Instrument :  
MSVOA\_W  
ClientSampleId :

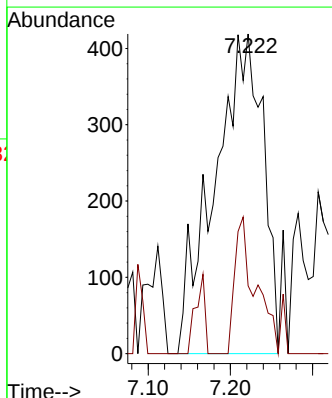
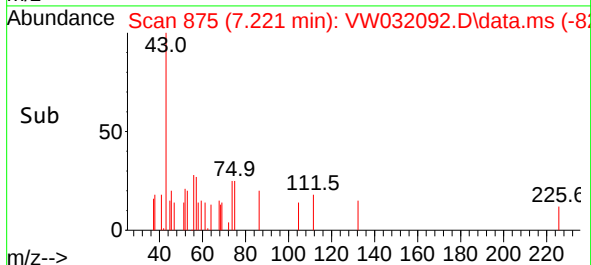
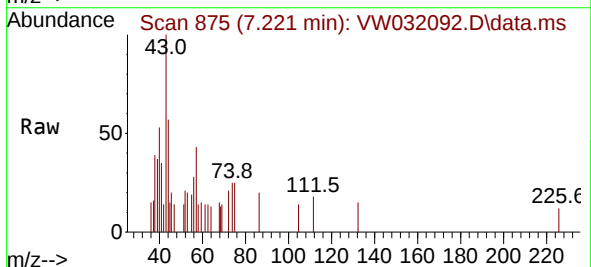


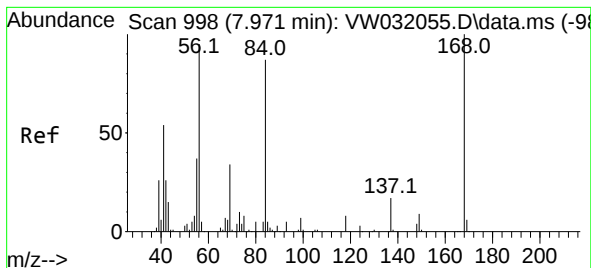
Tgt Ion: 84 Resp: 4964  
Ion Ratio Lower Upper  
84 100  
49 91.9 95.9 143.9#  
51 31.9 28.6 43.0  
86 59.4 49.6 74.4



#25  
2-Butanone  
Concen: 2.589 ug/l  
RT: 7.221 min Scan# 875  
Delta R.T. 0.030 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

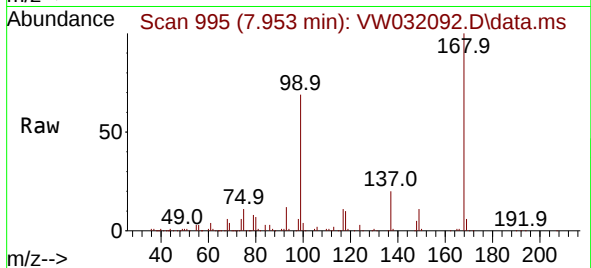
Tgt Ion: 43 Resp: 1719  
Ion Ratio Lower Upper  
43 100  
72 21.2 22.3 33.5#



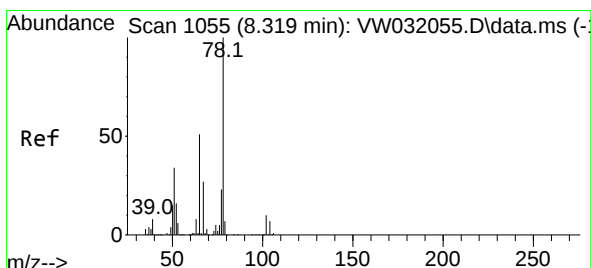
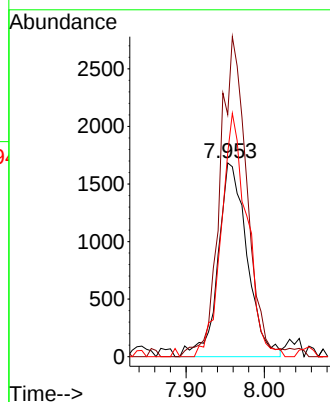
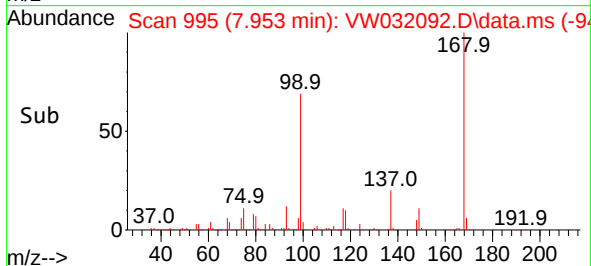


#31  
Cyclohexane  
Concen: 1.505 ug/l  
RT: 7.953 min Scan# 998  
Delta R.T. -0.018 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

Instrument :  
MSVOA\_W  
ClientSampleId :

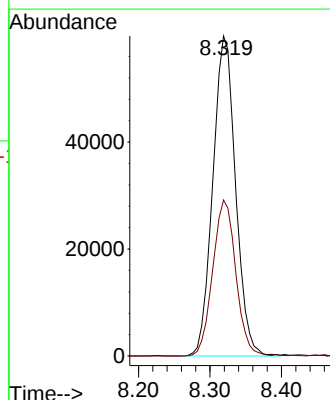
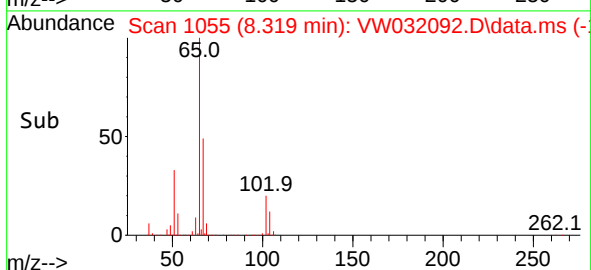
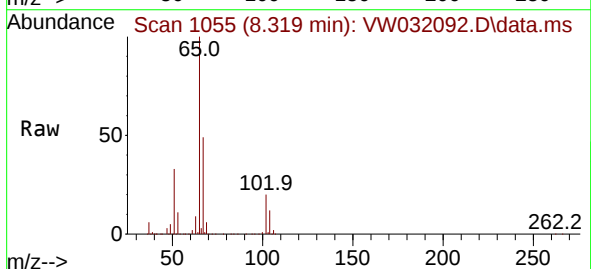


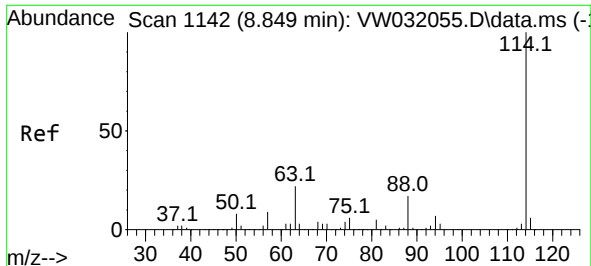
Tgt Ion: 56 Resp: 4328  
Ion Ratio Lower Upper  
56 100  
69 125.0 28.6 42.8#  
84 105.1 73.0 109.4



#33  
1,2-Dichloroethane-d4  
Concen: 65.563 ug/l  
RT: 8.319 min Scan# 1055  
Delta R.T. -0.000 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

Tgt Ion: 65 Resp: 132296  
Ion Ratio Lower Upper  
65 100  
67 49.3 0.0 102.4

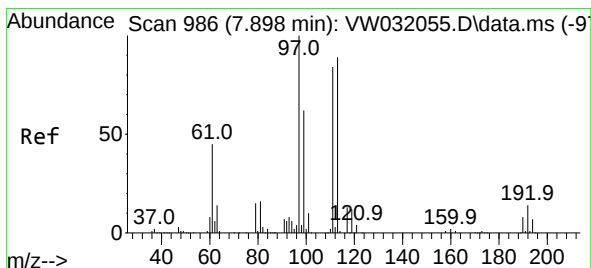
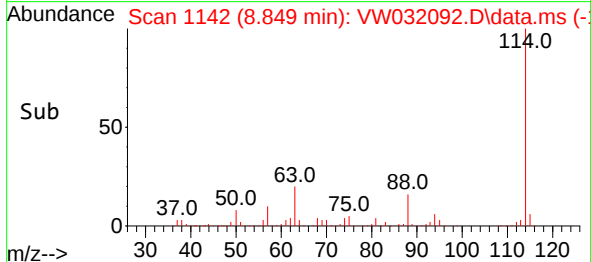
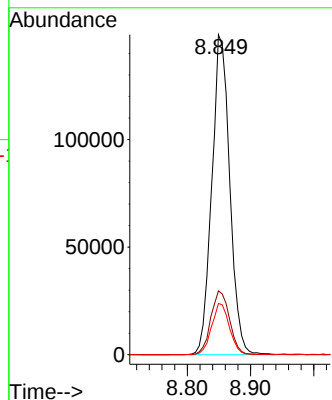
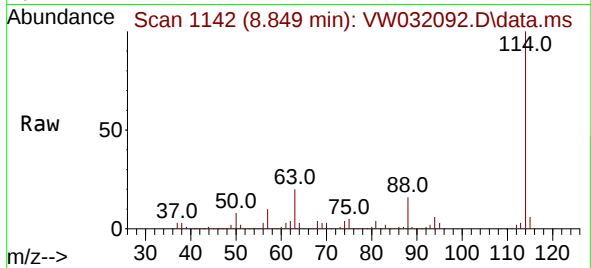




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.849 min Scan# 1142  
Delta R.T. -0.000 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

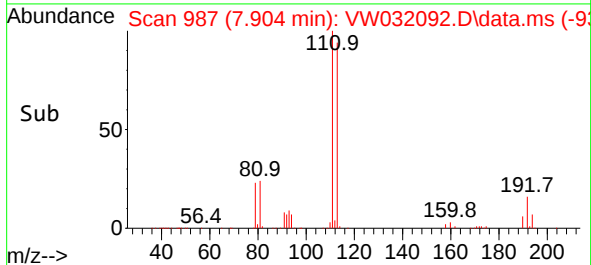
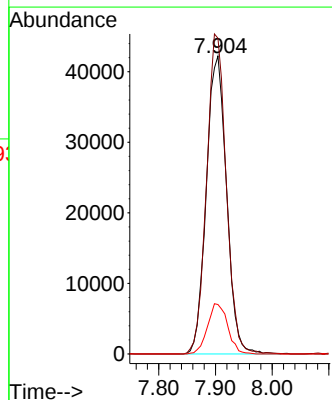
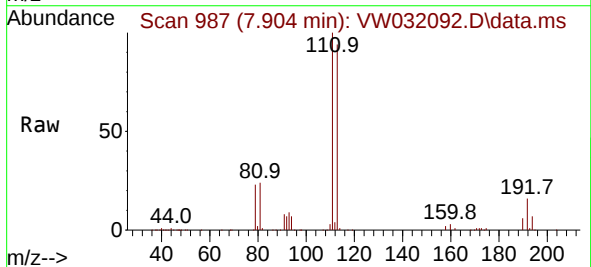
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ClientSampleId :

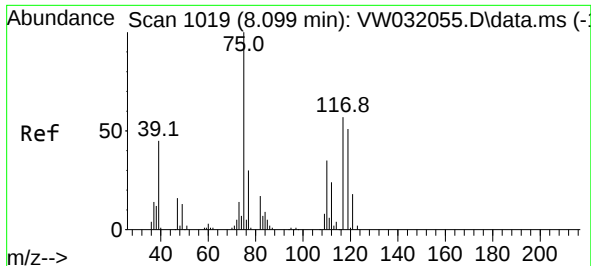
Tgt Ion:114 Resp: 293162  
Ion Ratio Lower Upper  
114 100  
63 20.0 0.0 43.0  
88 16.0 0.0 33.8



#35  
Dibromofluoromethane  
Concen: 55.334 ug/l  
RT: 7.904 min Scan# 987  
Delta R.T. 0.006 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

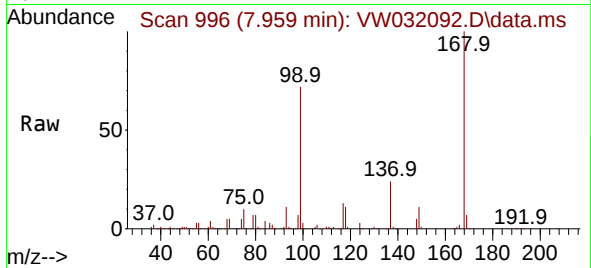
Tgt Ion:113 Resp: 104800  
Ion Ratio Lower Upper  
113 100  
111 104.3 80.1 120.1  
192 16.8 13.1 19.7



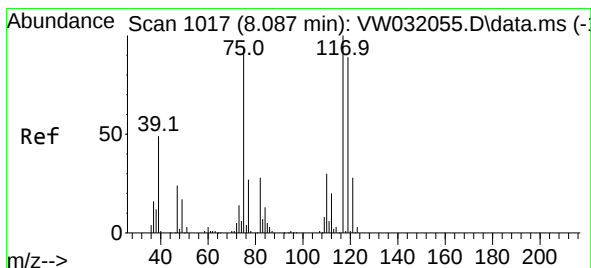
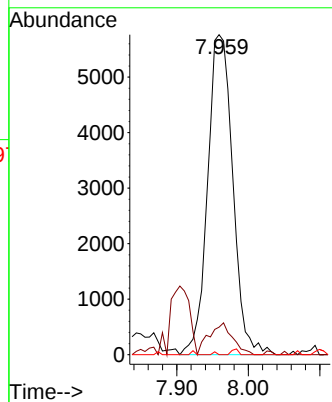
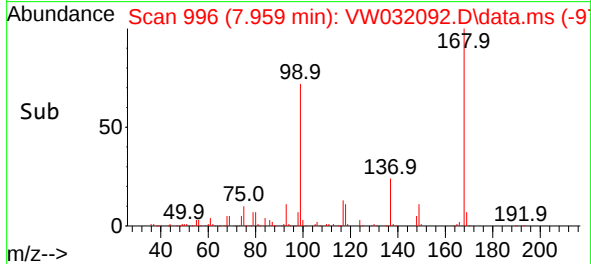


#36  
1,1-Dichloropropene  
Concen: 5.287 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.140 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

Instrument :  
MSVOA\_W  
ClientSampleId :

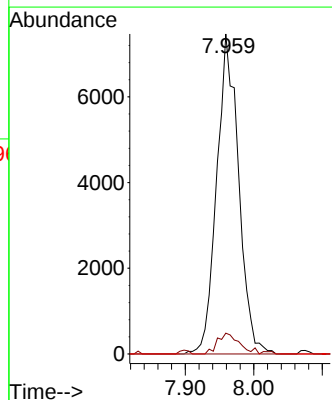
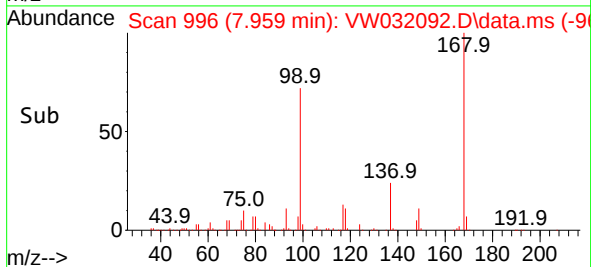
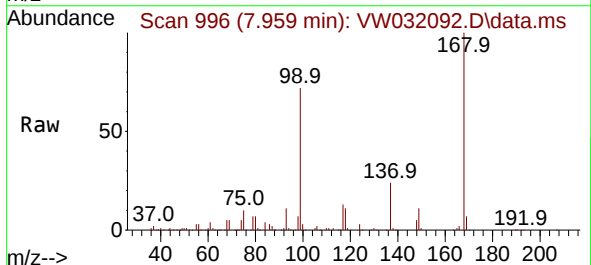


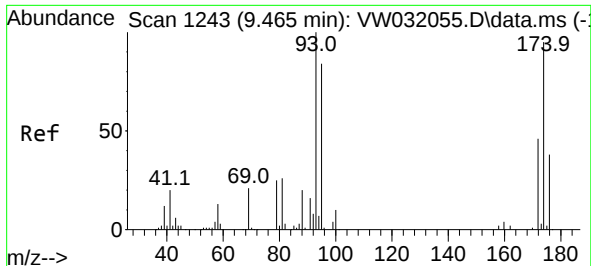
Tgt Ion: 75 Resp: 14115  
Ion Ratio Lower Upper  
75 100  
110 9.3 17.4 52.2#  
77 0.1 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.415 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.128 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

Tgt Ion: 117 Resp: 16528  
Ion Ratio Lower Upper  
117 100  
119 6.5 71.4 107.2#  
121 0.0 22.3 33.5#





#49

1,4-Dioxane

Concen: 3.407 ug/l

RT: 9.428 min Scan# 1

Delta R.T. -0.037 min

Lab File: VW032092.D

Acq: 14 Aug 2025 14:39

Instrument :

MSVOA\_W

ClientSampleId :

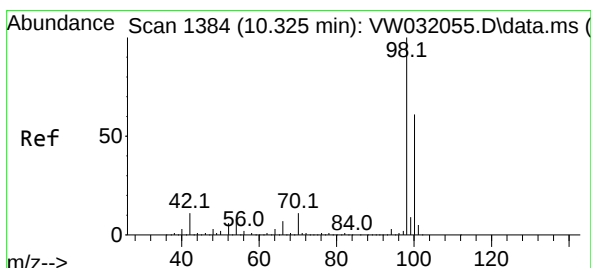
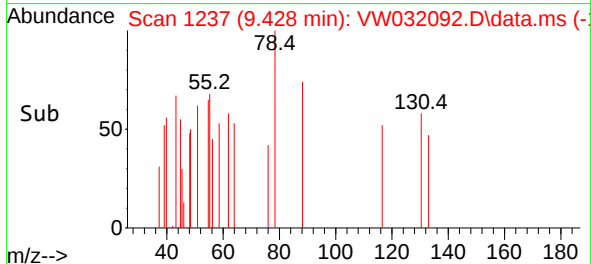
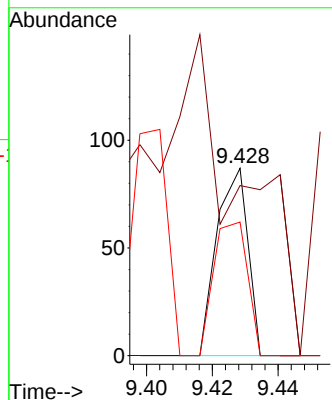
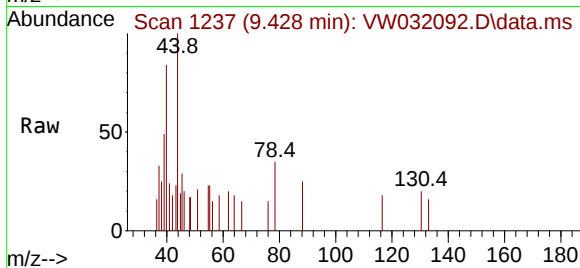
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 0.0 20.6 30.8#

58 77.2 60.4 90.6



#50

Toluene-d8

Concen: 48.657 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032092.D

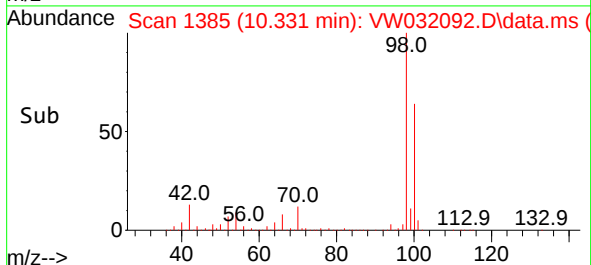
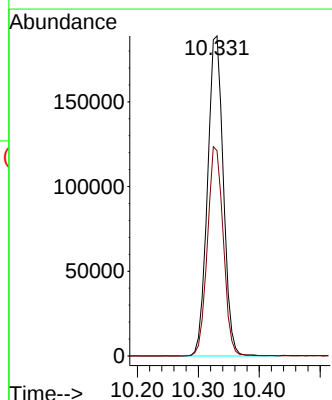
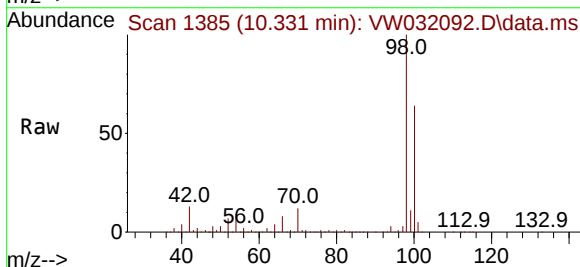
Acq: 14 Aug 2025 14:39

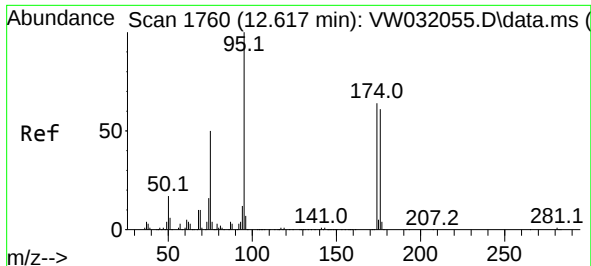
Tgt Ion: 98 Resp: 340851

Ion Ratio Lower Upper

98 100

100 65.5 51.1 76.7

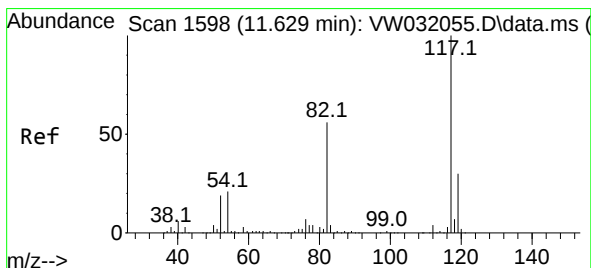
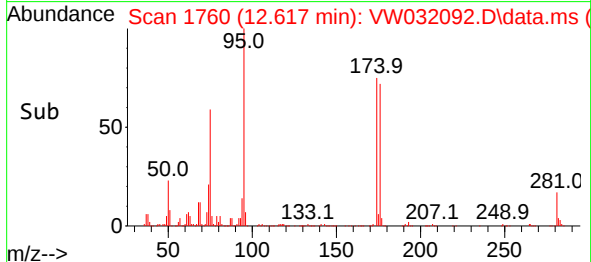
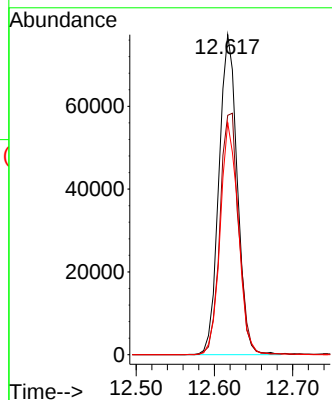
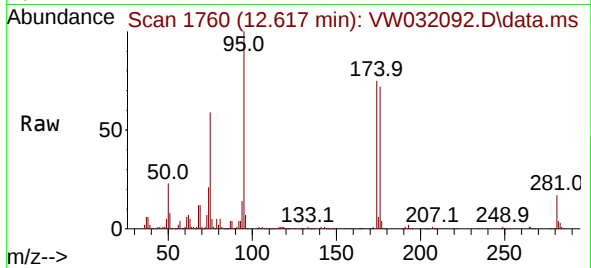




#62  
4-Bromofluorobenzene  
Concen: 48.840 ug/l  
RT: 12.617 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

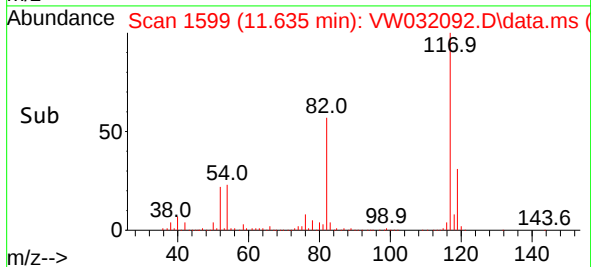
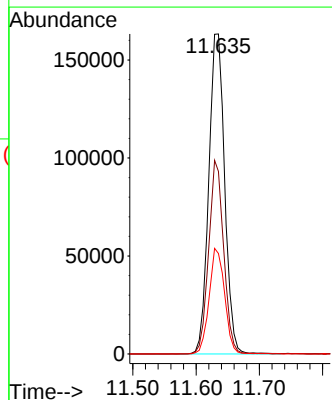
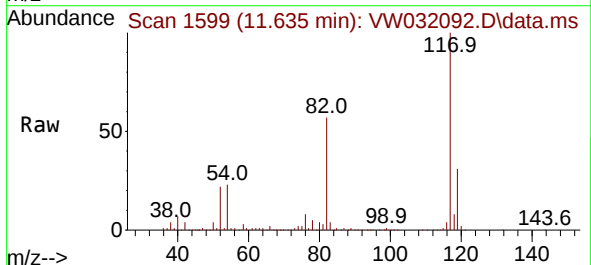
Instrument :  
MSVOA\_W  
ClientSampleId :

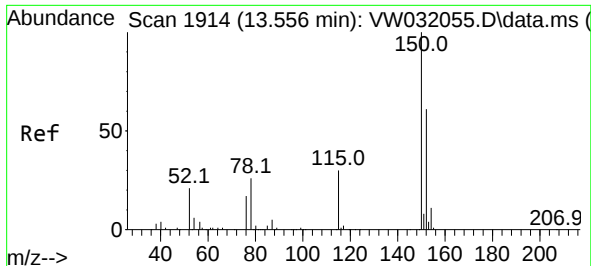
Tgt Ion: 95 Resp: 126079  
Ion Ratio Lower Upper  
95 100  
174 77.2 0.0 129.0  
176 71.5 0.0 124.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.635 min Scan# 1599  
Delta R.T. 0.006 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

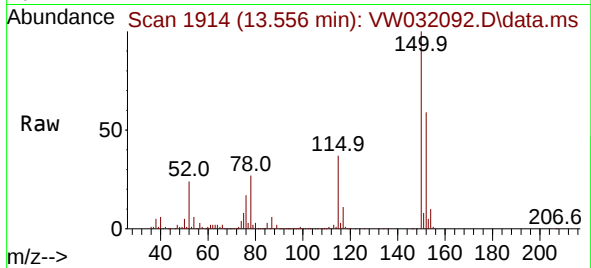
Tgt Ion: 117 Resp: 286216  
Ion Ratio Lower Upper  
117 100  
82 57.0 45.0 67.4  
119 31.4 24.2 36.4



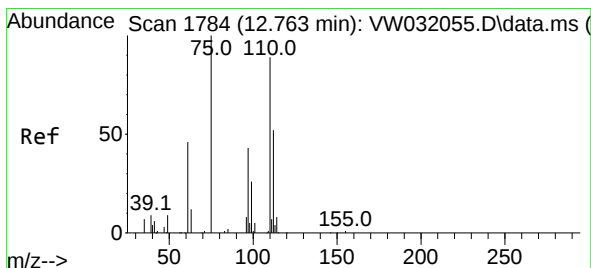
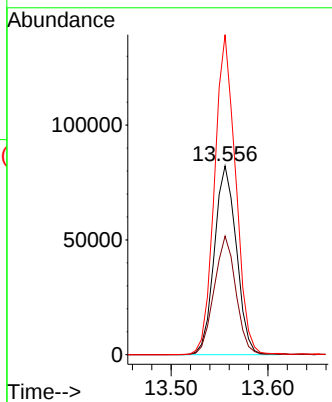
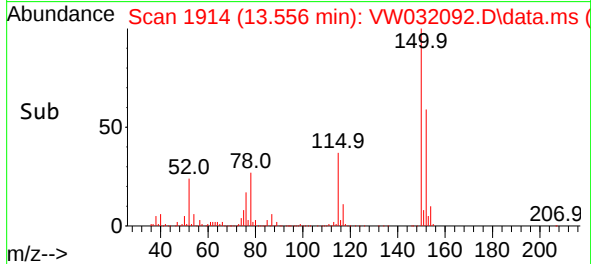


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.556 min Scan# 1914  
Delta R.T. -0.000 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

Instrument :  
MSVOA\_W  
ClientSampleId :

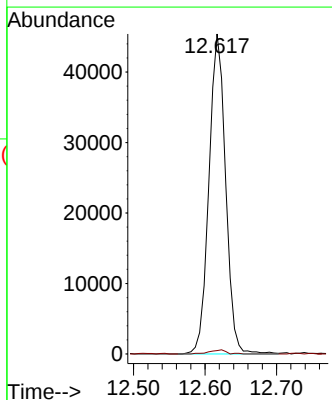
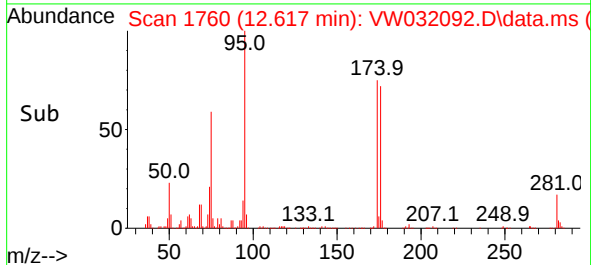
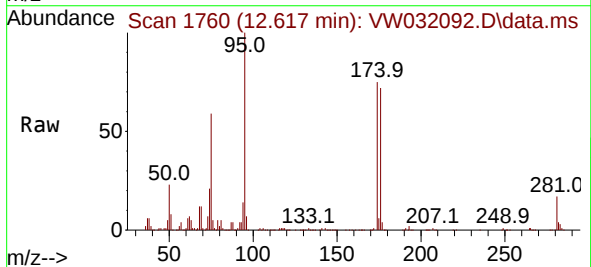


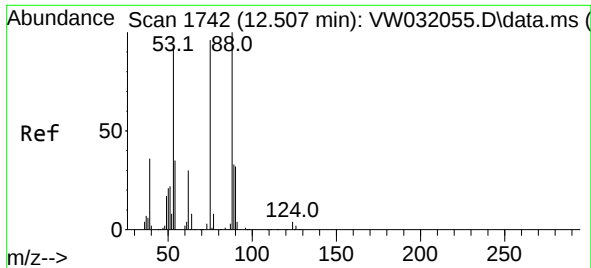
Tgt Ion:152 Resp: 129964  
Ion Ratio Lower Upper  
152 100  
115 62.2 32.6 97.8  
150 163.1 0.0 359.4



#76  
1,2,3-Trichloropropane  
Concen: 41.728 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. -0.146 min  
Lab File: VW032092.D  
Acq: 14 Aug 2025 14:39

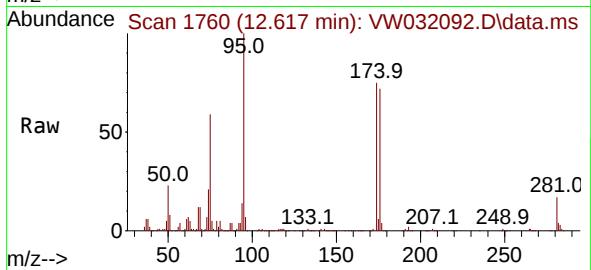
Tgt Ion: 75 Resp: 73605  
Ion Ratio Lower Upper  
75 100  
77 1.3 123.5 370.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 108.030 ug/l  
 RT: 12.617 min Scan# 11  
 Delta R.T. 0.110 min  
 Lab File: VW032092.D  
 Acq: 14 Aug 2025 14:39

Instrument :  
 MSVOA\_W  
 ClientSampleId :



Tgt Ion: 75 Resp: 73605  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 81.0 121.6#  
 89 0.6 37.3 55.9#

