

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW081425\  
 Data File : VW032103.D  
 Acq On : 14 Aug 2025 18:47  
 Operator : SY/MD  
 Sample : Q2820-20  
 Misc : 8.76g/5mL/MSVOA\_W/SOIL/A  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 18 03:57:20 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

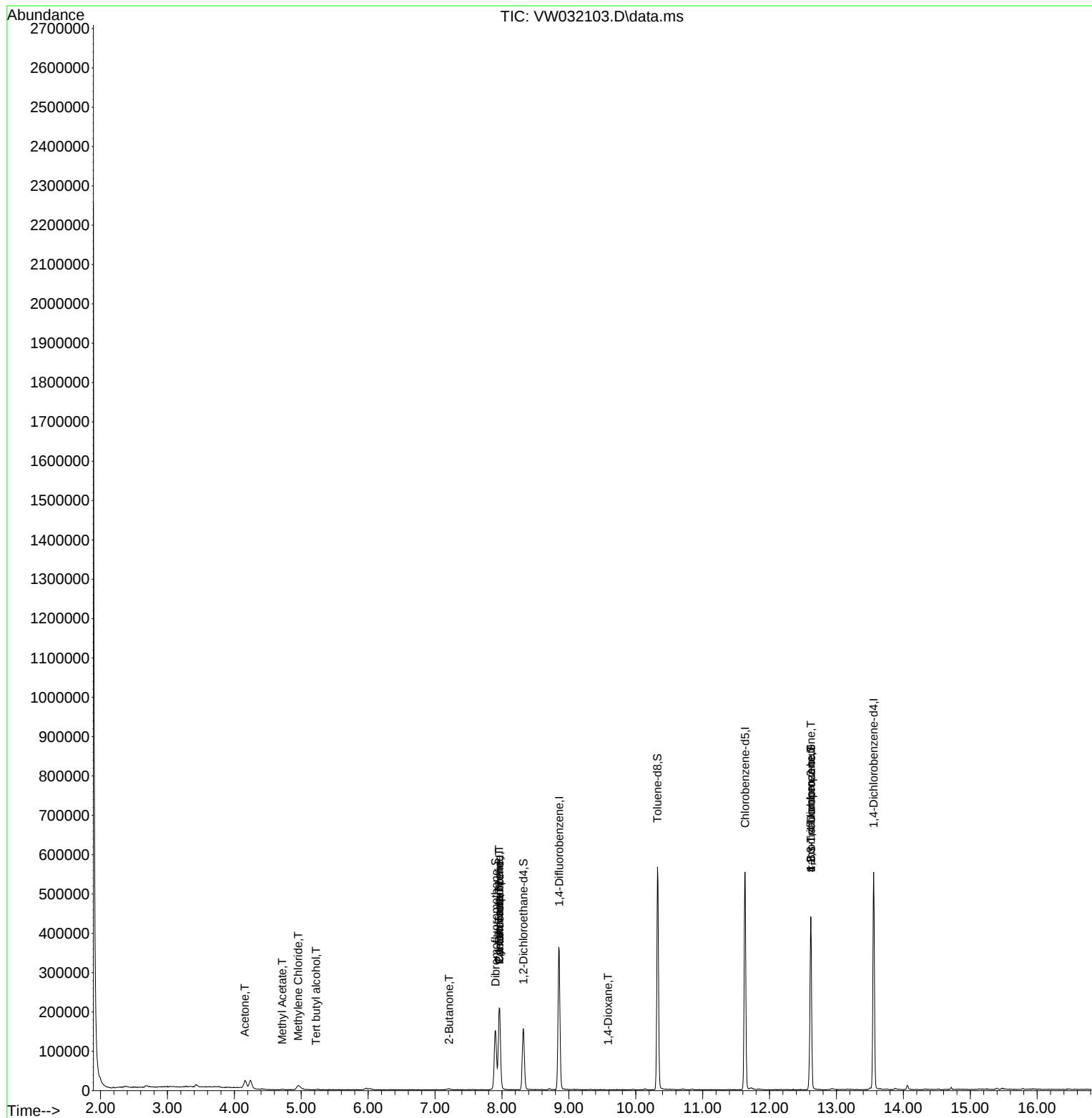
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 7.965  | 168            | 146240   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.856  | 114            | 298387   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.636 | 117            | 290020   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.556 | 152            | 135214   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.319  | 65             | 127754   | 60.403     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 63 - 155 | Recovery | = 120.800% |        |          |
| 35) Dibromofluoromethane      | 7.904  | 113            | 106596   | 55.297     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 70 - 134 | Recovery | = 110.600% |        |          |
| 50) Toluene-d8                | 10.325 | 98             | 355808   | 49.903     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 123 | Recovery | = 99.800%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.617 | 95             | 126826   | 48.269     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 17 - 146 | Recovery | = 96.540%  |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 11) Tert butyl alcohol        | 5.222  | 59             | 507      | 3.702      | ug/l # | 71       |
| 16) Acetone                   | 4.155  | 43             | 34321    | 70.088     | ug/l   | 96       |
| 18) Methyl Acetate            | 4.716  | 43             | 1820     | 1.175      | ug/l # | 87       |
| 20) Methylene Chloride        | 4.954  | 84             | 9985     | 4.410      | ug/l   | 97       |
| 25) 2-Butanone                | 7.209  | 43             | 4485     | 6.444      | ug/l # | 89       |
| 31) Cyclohexane               | 7.959  | 56             | 4686     | 1.555      | ug/l # | 42       |
| 36) 1,1-Dichloropropene       | 7.959  | 75             | 13895    | 5.113      | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.959  | 117            | 16559    | 6.314      | ug/l # | 20       |
| 49) 1,4-Dioxane               | 9.587  | 88             | 25       | 1.468      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.617 | 75             | 73206    | 39.891     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.617 | 75             | 73206    | 103.273    | ug/l # | 9        |
| -----                         |        |                |          |            |        |          |

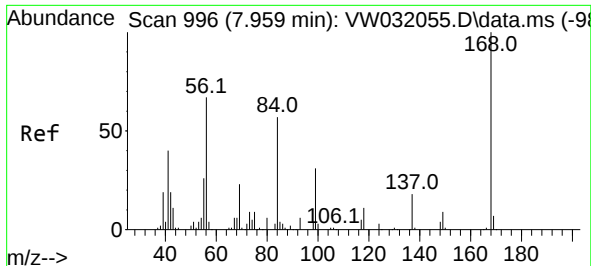
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW081425\  
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Sample : Q2820-20  
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ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Aug 18 03:57:20 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

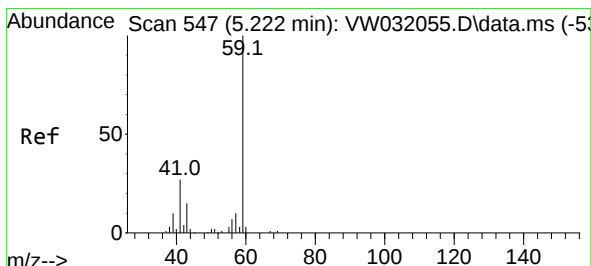
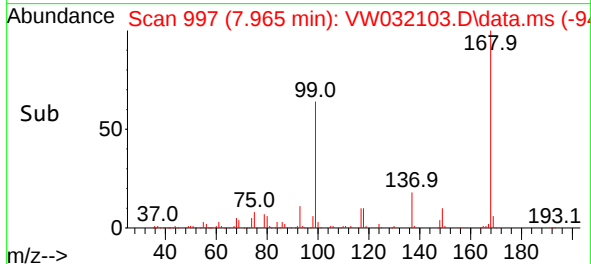
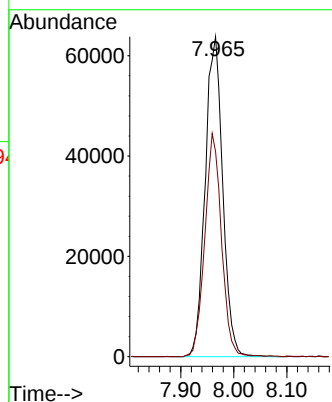
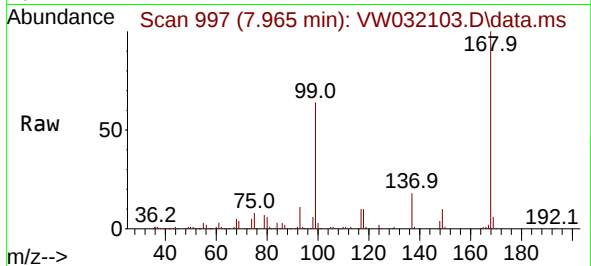




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.965 min Scan# 996  
Delta R.T. 0.006 min  
Lab File: VW032103.D  
Acq: 14 Aug 2025 18:47

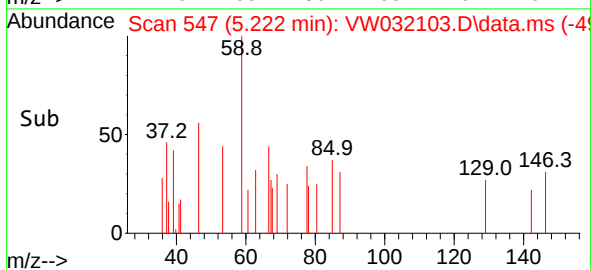
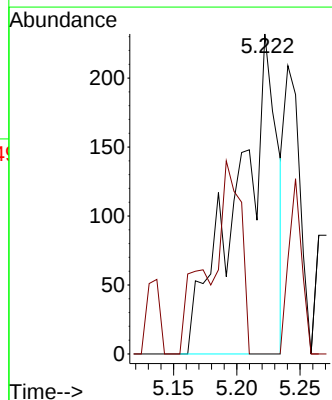
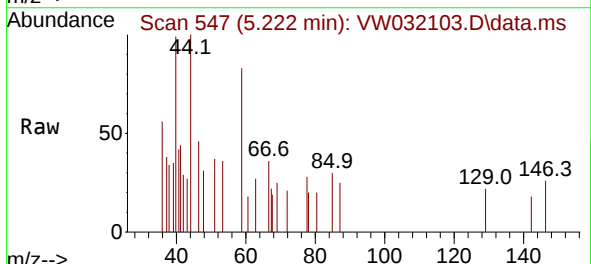
Instrument :  
MSVOA\_W  
ClientSampleId :

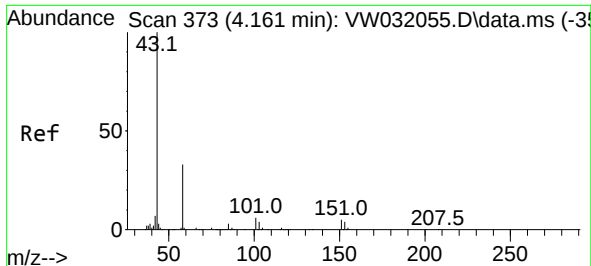
Tgt Ion:168 Resp: 146240  
Ion Ratio Lower Upper  
168 100  
99 64.1 56.0 84.0



#11  
Tert butyl alcohol  
Concen: 3.702 ug/l  
RT: 5.222 min Scan# 547  
Delta R.T. 0.000 min  
Lab File: VW032103.D  
Acq: 14 Aug 2025 18:47

Tgt Ion: 59 Resp: 507  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#

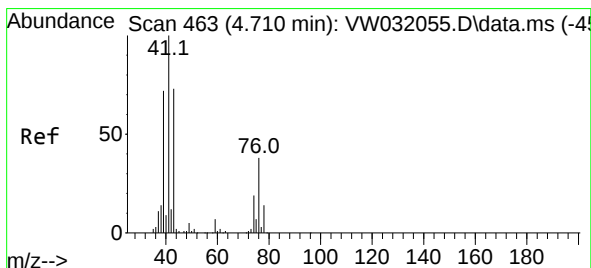
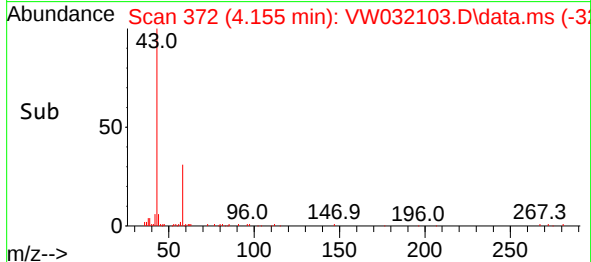
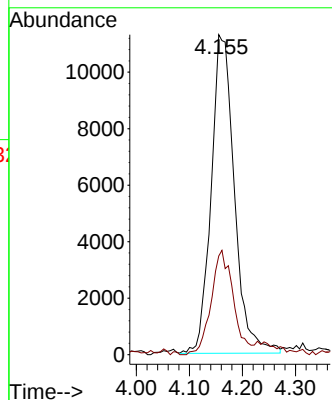
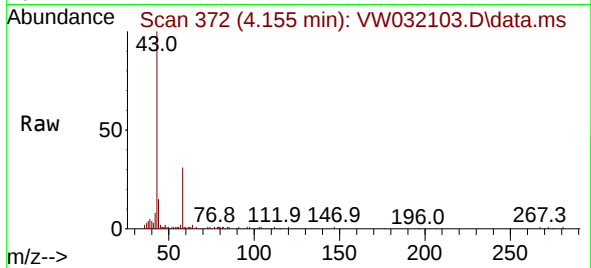




#16  
Acetone  
Concen: 70.088 ug/l  
RT: 4.155 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VW032103.D  
Acq: 14 Aug 2025 18:47

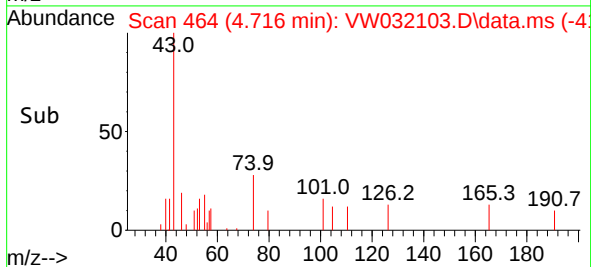
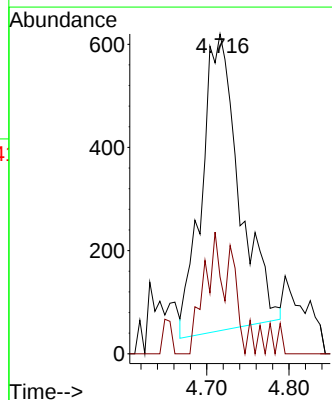
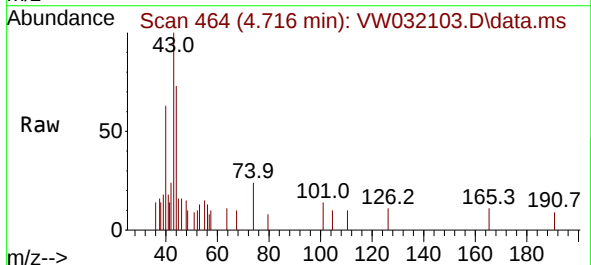
Instrument :  
MSVOA\_W  
ClientSampleId :

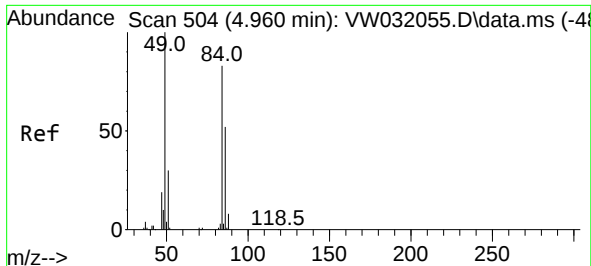
Tgt Ion: 43 Resp: 34321  
Ion Ratio Lower Upper  
43 100  
58 31.0 26.6 39.8



#18  
Methyl Acetate  
Concen: 1.175 ug/l  
RT: 4.716 min Scan# 464  
Delta R.T. 0.006 min  
Lab File: VW032103.D  
Acq: 14 Aug 2025 18:47

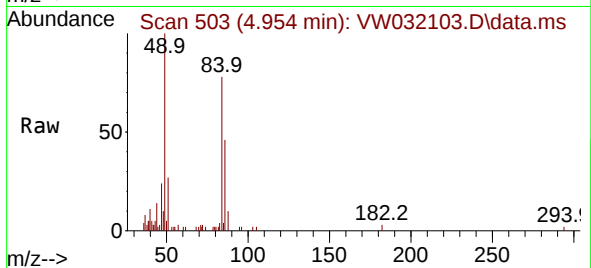
Tgt Ion: 43 Resp: 1820  
Ion Ratio Lower Upper  
43 100  
74 19.3 20.6 31.0#



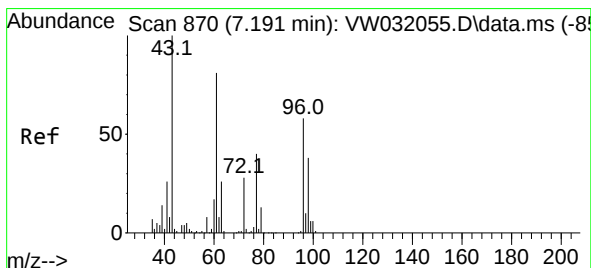
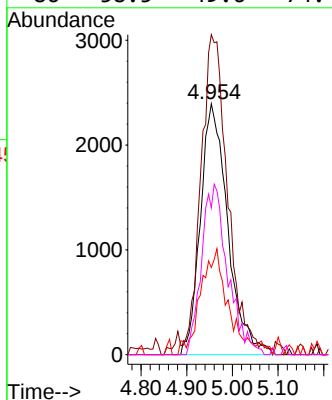
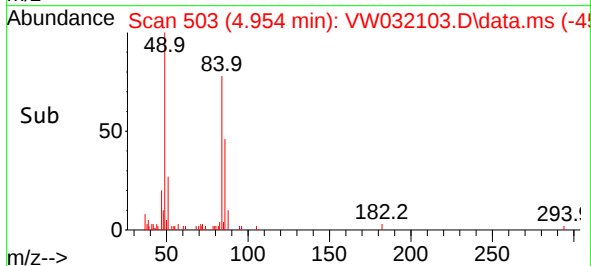


#20  
Methylene Chloride  
Concen: 4.410 ug/l  
RT: 4.954 min Scan# 504  
Delta R.T. -0.006 min  
Lab File: VW032103.D  
Acq: 14 Aug 2025 18:47

Instrument :  
MSVOA\_W  
ClientSampleId :

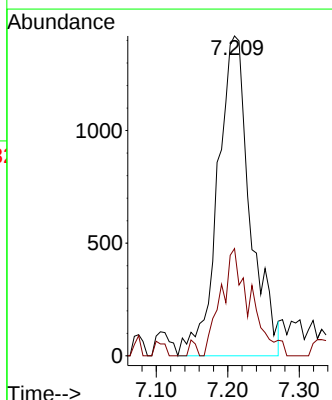
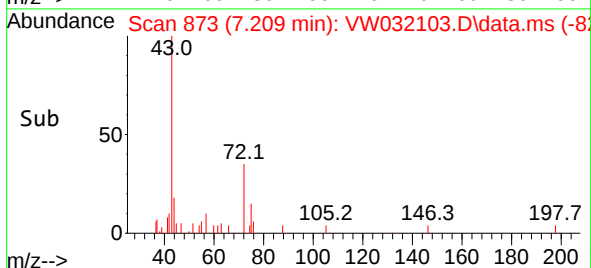
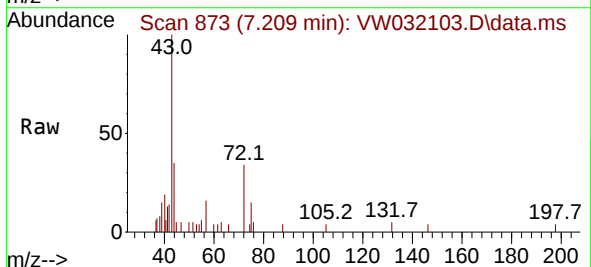


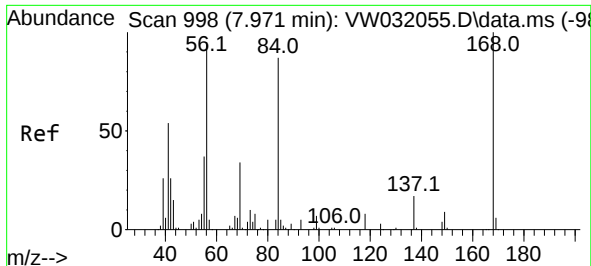
| Tgt Ion: 84 | Resp: 9985 |       |       |
|-------------|------------|-------|-------|
| Ion         | Ratio      | Lower | Upper |
| 84          | 100        |       |       |
| 49          | 123.4      | 95.9  | 143.9 |
| 51          | 34.8       | 28.6  | 43.0  |
| 86          | 58.5       | 49.6  | 74.4  |



#25  
2-Butanone  
Concen: 6.444 ug/l  
RT: 7.209 min Scan# 873  
Delta R.T. 0.018 min  
Lab File: VW032103.D  
Acq: 14 Aug 2025 18:47

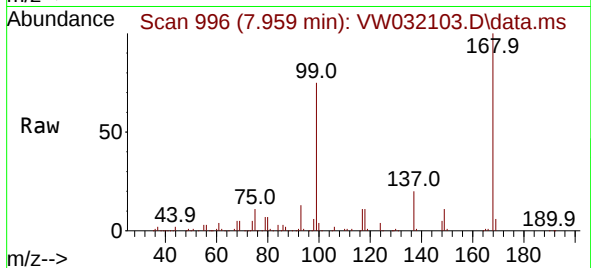
|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion: 43 | Resp: 4485 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 43 100      |            |       |  |
| 72 33.5     | 22.3       | 33.5# |  |



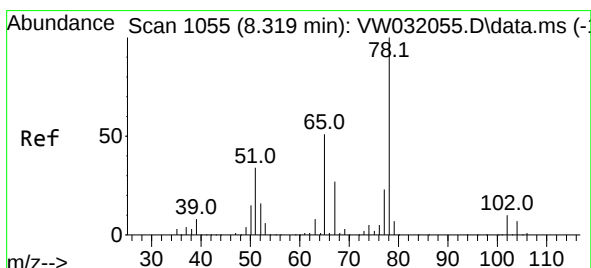
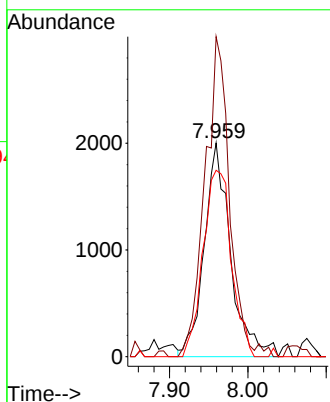
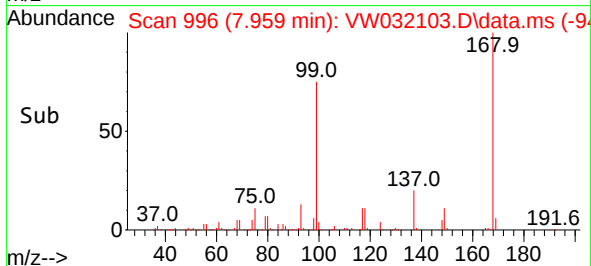


#31  
Cyclohexane  
Concen: 1.555 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.012 min  
Lab File: VW032103.D  
Acq: 14 Aug 2025 18:47

Instrument :  
MSVOA\_W  
ClientSampleId :

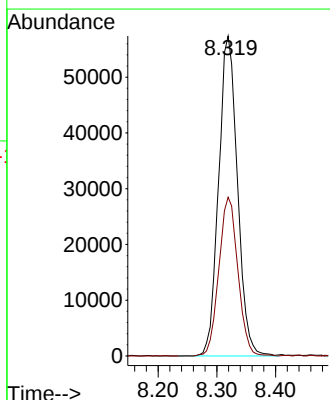
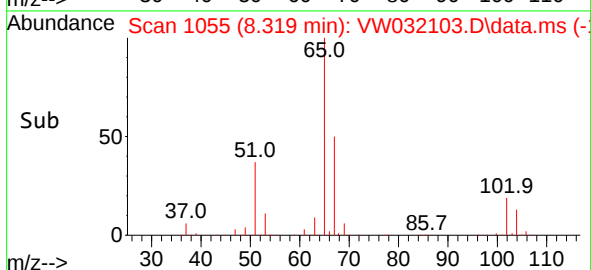
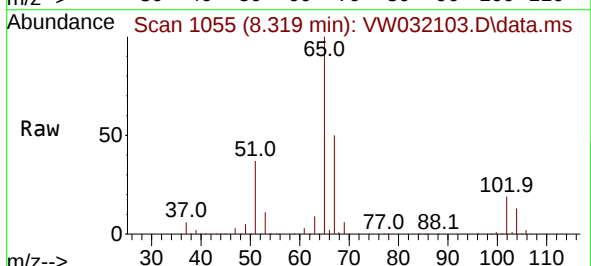


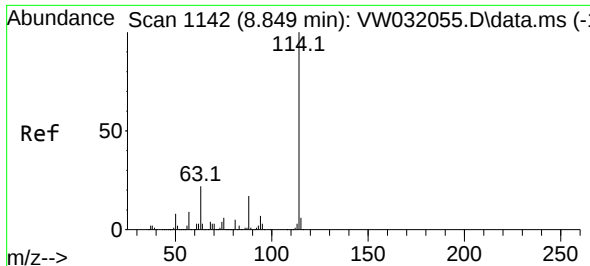
Tgt Ion: 56 Resp: 4686  
Ion Ratio Lower Upper  
56 100  
69 149.7 28.6 42.8#  
84 87.2 73.0 109.4



#33  
1,2-Dichloroethane-d4  
Concen: 60.403 ug/l  
RT: 8.319 min Scan# 1055  
Delta R.T. 0.000 min  
Lab File: VW032103.D  
Acq: 14 Aug 2025 18:47

Tgt Ion: 65 Resp: 127754  
Ion Ratio Lower Upper  
65 100  
67 50.0 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VW032103.D

Acq: 14 Aug 2025 18:47

Instrument :

MSVOA\_W

ClientSampleId :

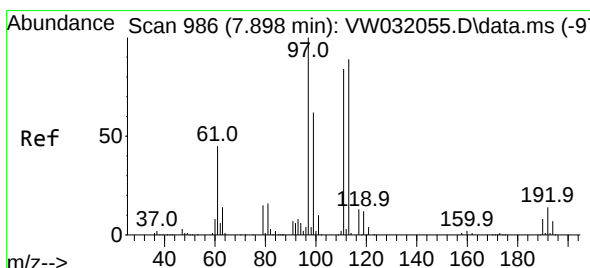
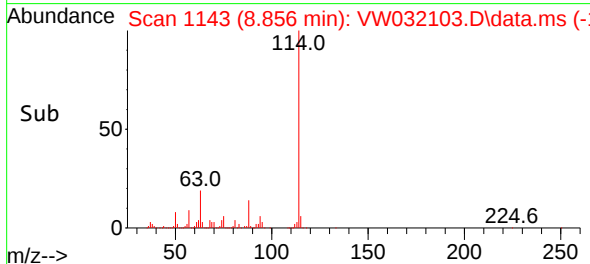
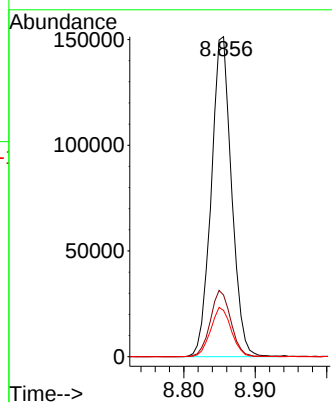
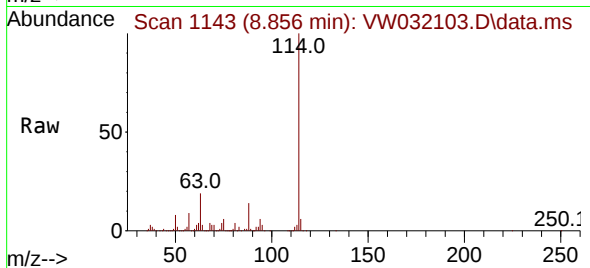
Tgt Ion:114 Resp: 298387

Ion Ratio Lower Upper

114 100

63 19.2 0.0 43.0

88 14.5 0.0 33.8



#35

Dibromofluoromethane

Concen: 55.297 ug/l

RT: 7.904 min Scan# 987

Delta R.T. 0.006 min

Lab File: VW032103.D

Acq: 14 Aug 2025 18:47

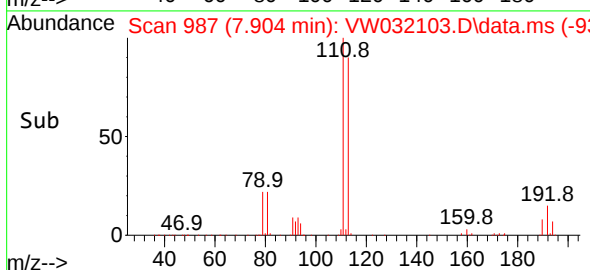
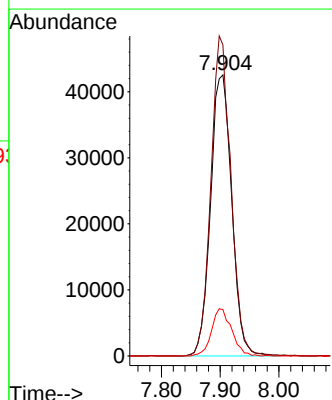
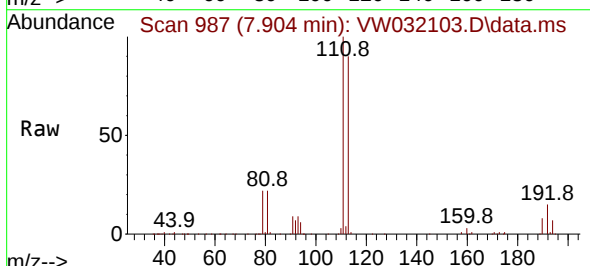
Tgt Ion:113 Resp: 106596

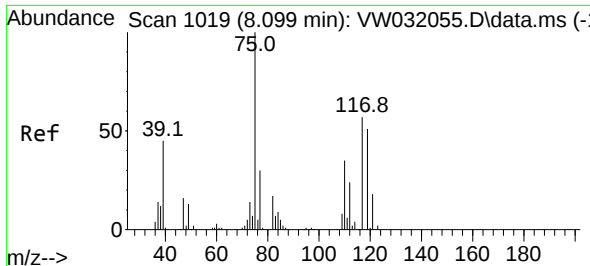
Ion Ratio Lower Upper

113 100

111 107.3 80.1 120.1

192 16.0 13.1 19.7





#36

1,1-Dichloropropene

Concen: 5.113 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.140 min

Lab File: VW032103.D

Acq: 14 Aug 2025 18:47

Instrument :

MSVOA\_W

ClientSampleId :

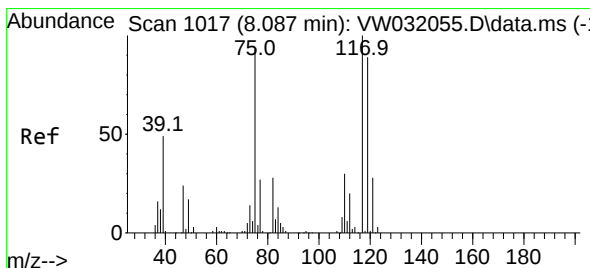
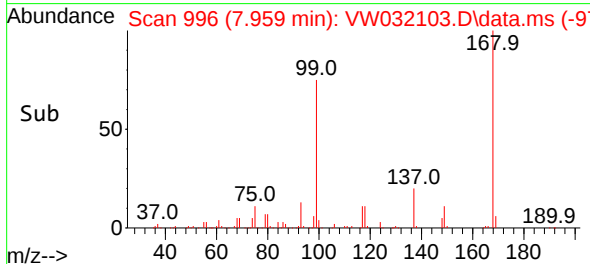
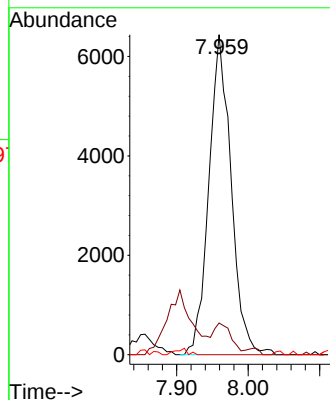
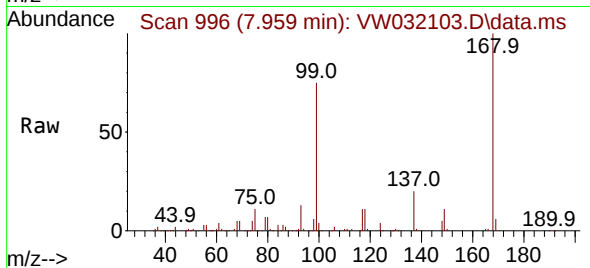
Tgt Ion: 75 Resp: 13895

Ion Ratio Lower Upper

75 100

110 7.7 17.4 52.2#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.314 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.128 min

Lab File: VW032103.D

Acq: 14 Aug 2025 18:47

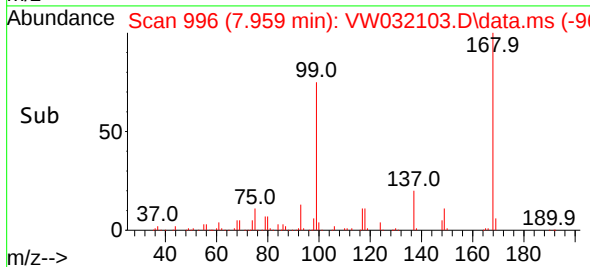
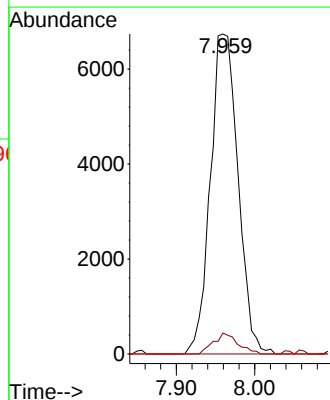
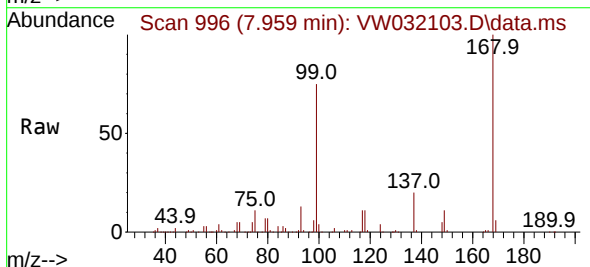
Tgt Ion: 117 Resp: 16559

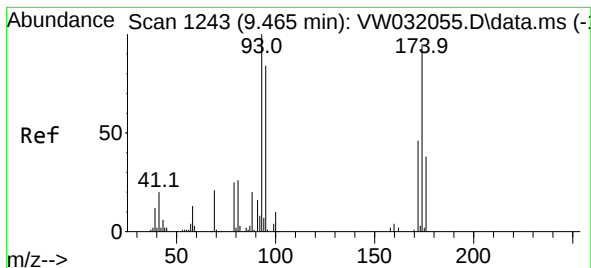
Ion Ratio Lower Upper

117 100

119 6.6 71.4 107.2#

121 0.0 22.3 33.5#





#49

1,4-Dioxane

Concen: 1.468 ug/l

RT: 9.587 min Scan# 1263

Delta R.T. 0.122 min

Lab File: VW032103.D

Acq: 14 Aug 2025 18:47

Instrument :

MSVOA\_W

ClientSampleId :

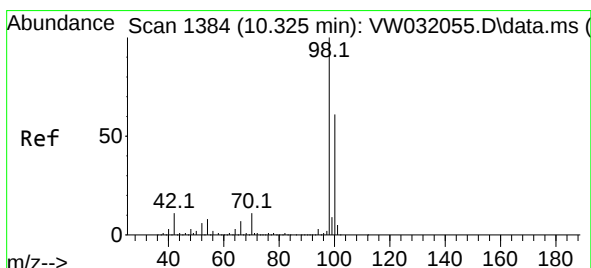
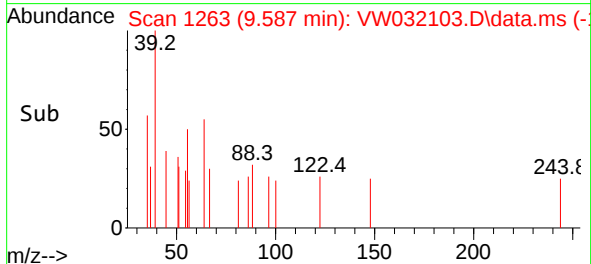
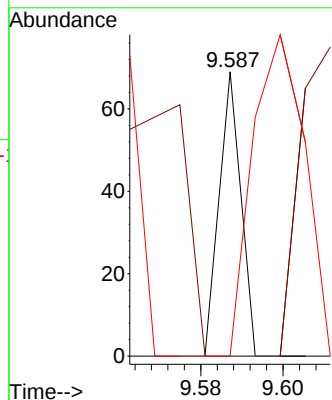
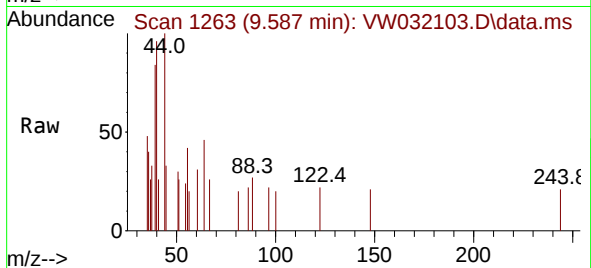
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 0.0 20.6 30.8#

58 276.0 60.4 90.6#



#50

Toluene-d8

Concen: 49.903 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VW032103.D

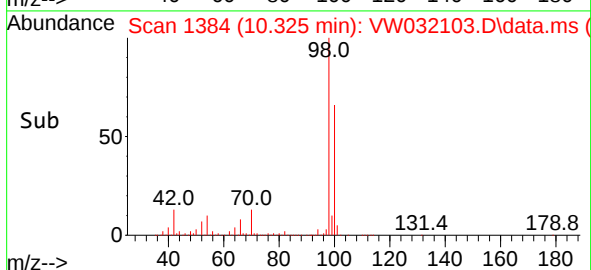
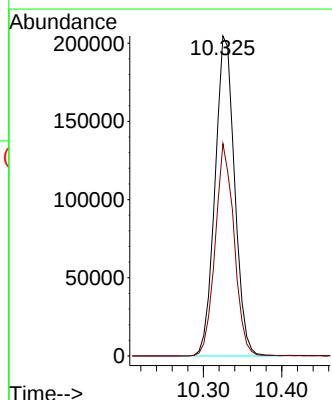
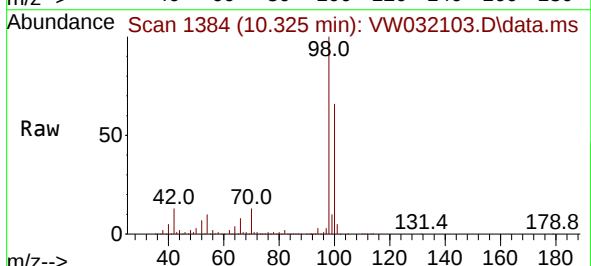
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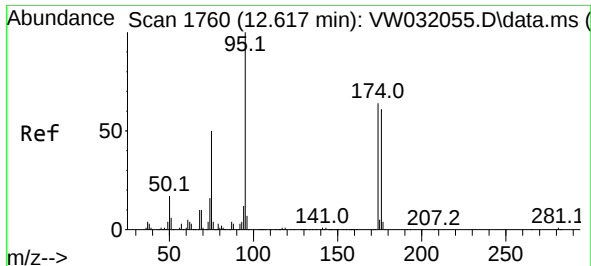
Tgt Ion: 98 Resp: 355808

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7

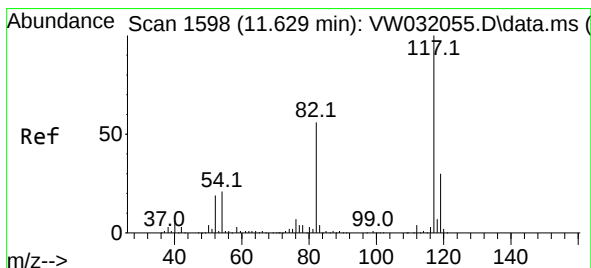
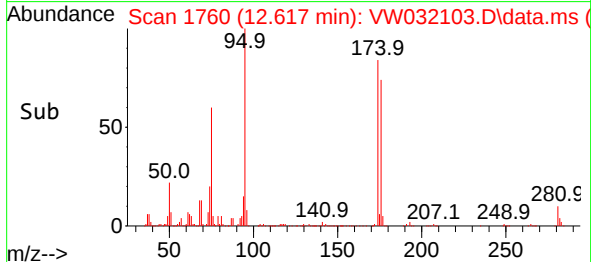
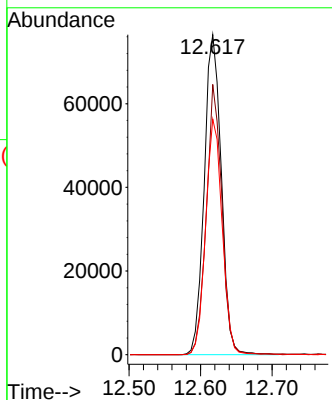
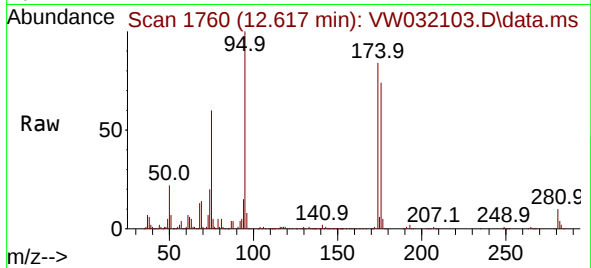




#62  
4-Bromofluorobenzene  
Concen: 48.269 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. 0.000 min  
Lab File: VW032103.D  
Acq: 14 Aug 2025 18:47

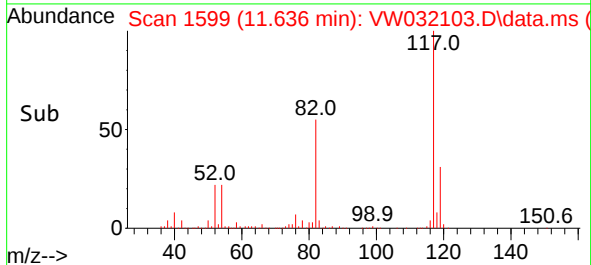
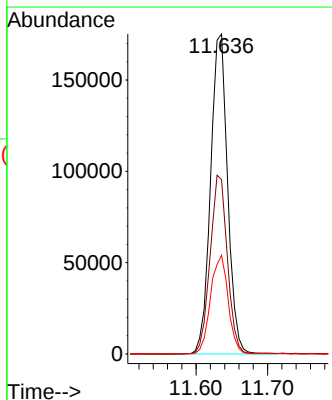
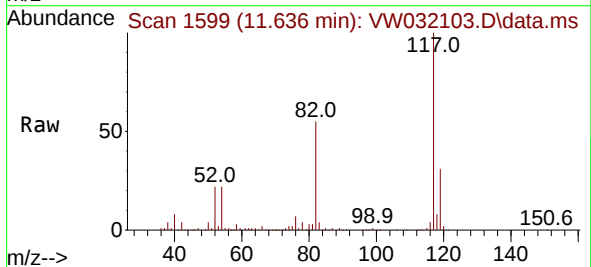
Instrument :  
MSVOA\_W  
ClientSampleId :

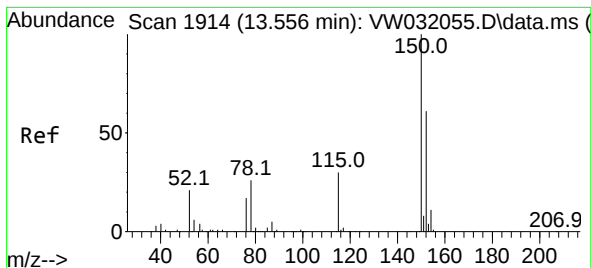
Tgt Ion: 95 Resp: 126826  
Ion Ratio Lower Upper  
95 100  
174 77.0 0.0 129.0  
176 71.9 0.0 124.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.636 min Scan# 1599  
Delta R.T. 0.006 min  
Lab File: VW032103.D  
Acq: 14 Aug 2025 18:47

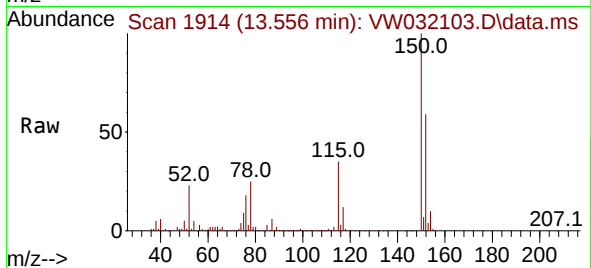
Tgt Ion: 117 Resp: 290020  
Ion Ratio Lower Upper  
117 100  
82 54.5 45.0 67.4  
119 30.8 24.2 36.4



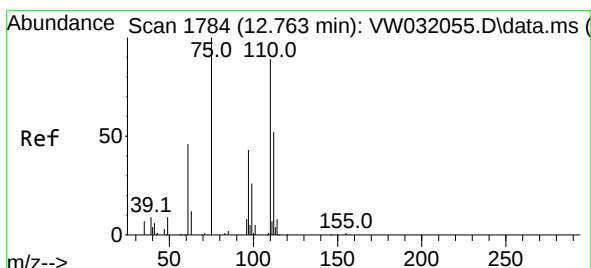
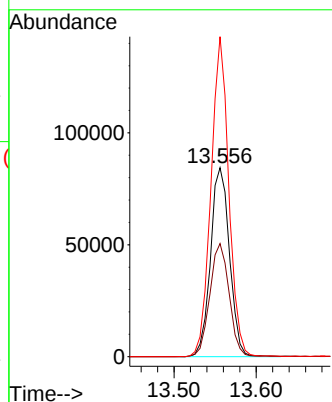
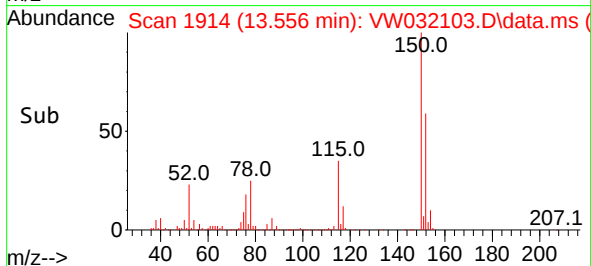


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.556 min Scan# 1914  
 Delta R.T. 0.000 min  
 Lab File: VW032103.D  
 Acq: 14 Aug 2025 18:47

Instrument :  
 MSVOA\_W  
 ClientSampleId :

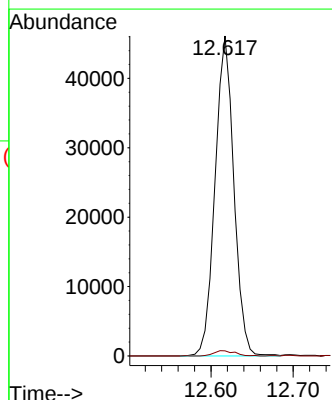
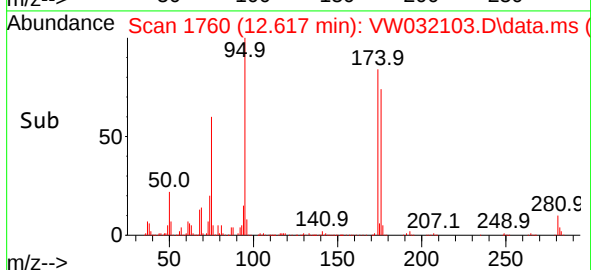
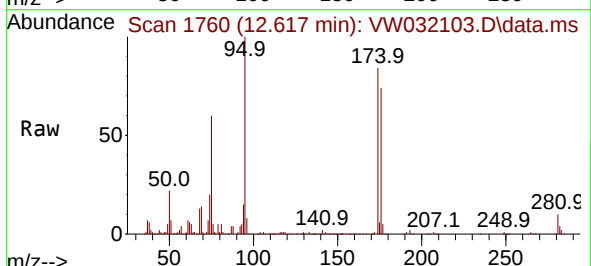


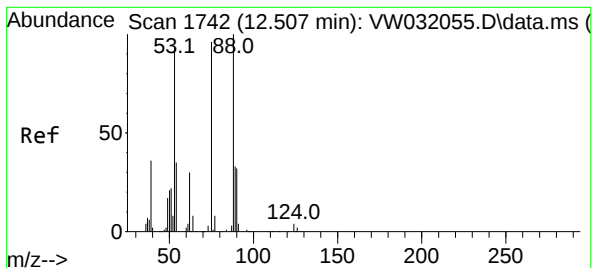
Tgt Ion:152 Resp: 135214  
 Ion Ratio Lower Upper  
 152 100  
 115 61.1 32.6 97.8  
 150 159.3 0.0 359.4



#76  
 1,2,3-Trichloropropane  
 Concen: 39.891 ug/l  
 RT: 12.617 min Scan# 1760  
 Delta R.T. -0.146 min  
 Lab File: VW032103.D  
 Acq: 14 Aug 2025 18:47

Tgt Ion: 75 Resp: 73206  
 Ion Ratio Lower Upper  
 75 100  
 77 1.9 123.5 370.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 103.273 ug/l

RT: 12.617 min Scan# 11

Delta R.T. 0.110 min

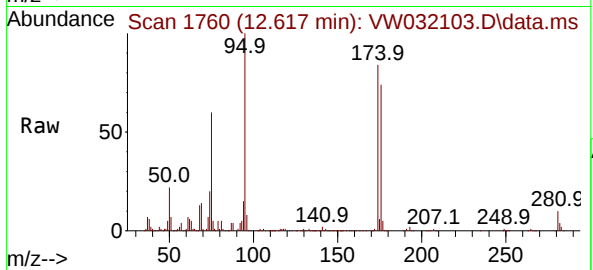
Lab File: VW032103.D

Acq: 14 Aug 2025 18:47

Instrument :

MSVOA\_W

ClientSampleId :



Tgt Ion: 75 Resp: 73206

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.4 37.3 55.9#

