

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101325\  
 Data File : VX048142.D  
 Acq On : 13 Oct 2025 15:10  
 Operator : JC/MD  
 Sample : PB170063TB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB170063TB

Quant Time: Oct 14 01:55:40 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091625W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 17 06:39:58 2025  
 Response via : Initial Calibration

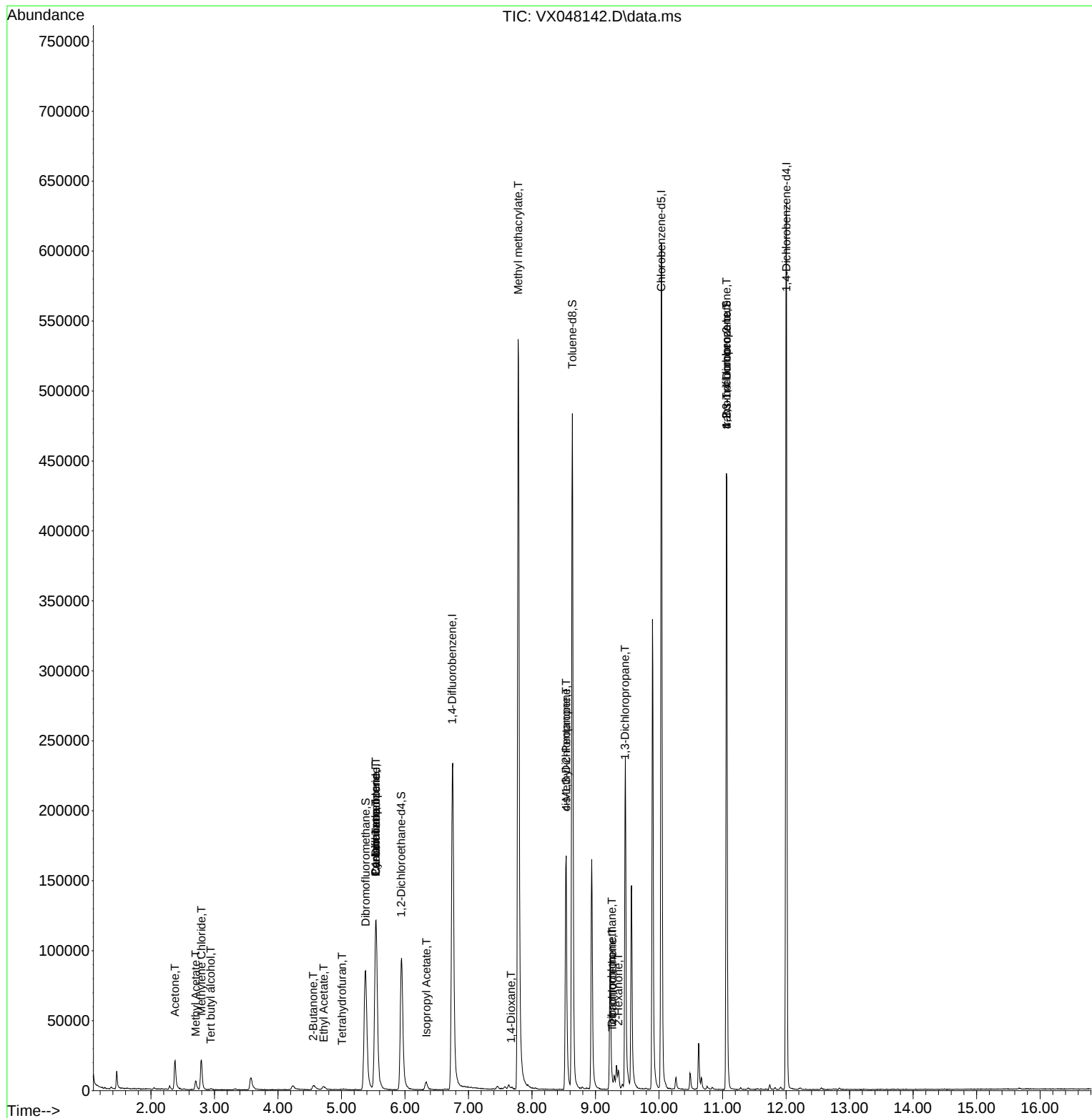
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.538          | 168  | 122716              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.745          | 114  | 253968              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.037         | 117  | 271431              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.006         | 152  | 136338              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.940          | 65   | 103817              | 53.149 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 106.300% |        |        |          |
| 35) Dibromofluoromethane      | 5.379          | 113  | 84014               | 49.326 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 98.660%  |        |        |          |
| 50) Toluene-d8                | 8.635          | 98   | 293820              | 49.854 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 99.700%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.061         | 95   | 126841              | 56.709 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 113.420% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 11) Tert butyl alcohol        | 2.941          | 59   | 644                 | 2.960  | ug/l # | 72       |
| 16) Acetone                   | 2.380          | 43   | 27468               | 32.341 | ug/l   | 98       |
| 18) Methyl Acetate            | 2.703          | 43   | 8960                | 4.740  | ug/l   | 99       |
| 20) Methylene Chloride        | 2.794          | 84   | 10188               | 5.667  | ug/l   | 95       |
| 25) 2-Butanone                | 4.556          | 43   | 7866                | 7.425  | ug/l # | 86       |
| 29) Tetrahydrofuran           | 5.007          | 42   | 171                 | 0.268  | ug/l # | 52       |
| 31) Cyclohexane               | 5.538          | 56   | 2851                | 1.105  | ug/l # | 6        |
| 36) 1,1-Dichloropropene       | 5.538          | 75   | 10758               | 4.322  | ug/l # | 52       |
| 37) Ethyl Acetate             | 4.721          | 43   | 6172                | 2.316  | ug/l # | 89       |
| 38) Carbon Tetrachloride      | 5.544          | 117  | 13163               | 4.868  | ug/l # | 18       |
| 43) Isopropyl Acetate         | 6.336          | 43   | 7949                | 1.819  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.781          | 41   | 55044               | 25.284 | ug/l # | 47       |
| 49) 1,4-Dioxane               | 7.671          | 88   | 20                  | 0.909  | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.537          | 43   | 66103               | 27.279 | ug/l # | 50       |
| 54) cis-1,3-Dichloropropene   | 8.537          | 75   | 29053               | 9.168  | ug/l # | 61       |
| 57) 1,3-Dichloropropane       | 9.464          | 76   | 2283                | 0.740  | ug/l # | 42       |
| 59) 2-Hexanone                | 9.360          | 43   | 7940                | 4.562  | ug/l # | 26       |
| 60) Dibromochloromethane      | 9.256          | 129  | 588                 | 0.284  | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.263          | 164  | 537                 | 0.303  | ug/l   | 91       |
| 76) 1,2,3-Trichloropropane    | 11.061         | 75   | 66353               | 24.037 | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.061         | 75   | 66353               | 61.299 | ug/l # | 8        |
| -----                         |                |      |                     |        |        |          |

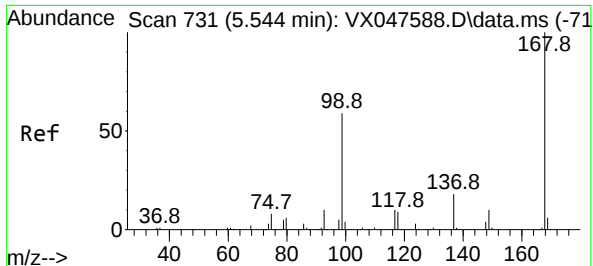
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : PB170063TB  
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PB170063TB

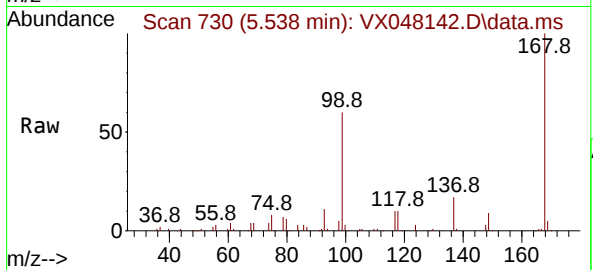
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Quant Title : SW846 8260  
QLast Update : Wed Sep 17 06:39:58 2025  
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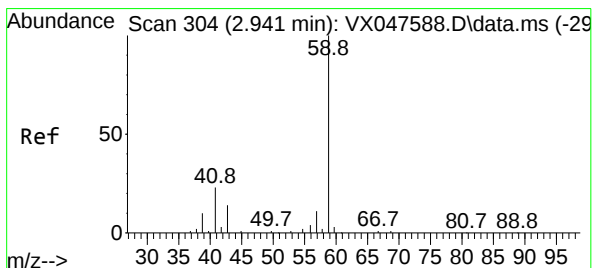
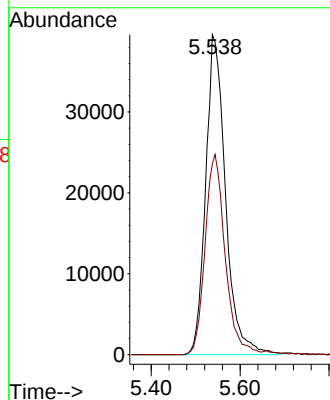
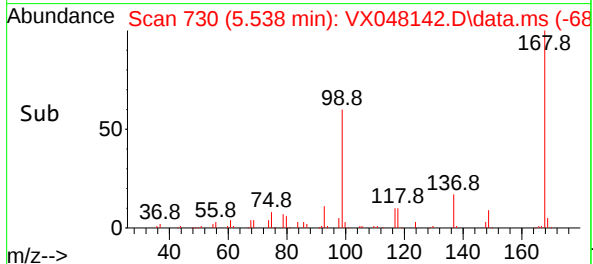


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.538 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB170063TB

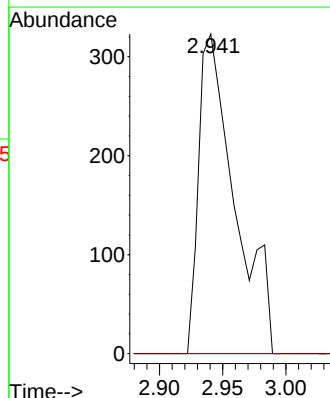
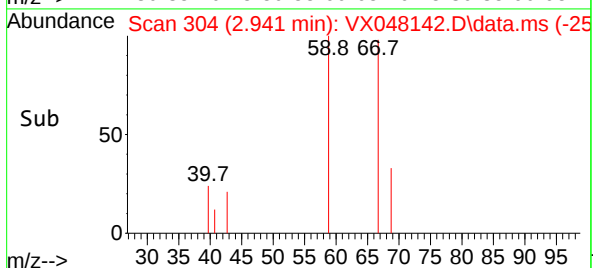
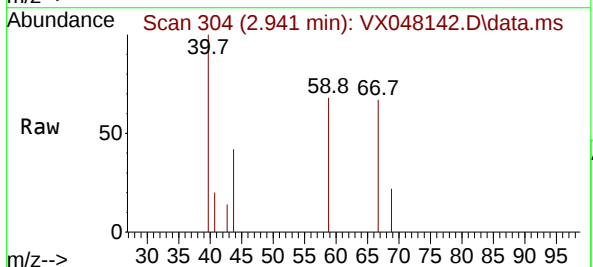


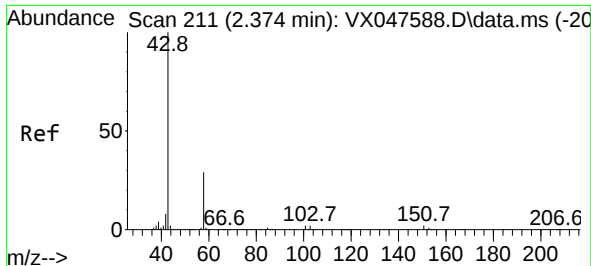
Tgt Ion:168 Resp: 122716  
Ion Ratio Lower Upper  
168 100  
99 59.6 48.8 73.2



#11  
Tert butyl alcohol  
Concen: 2.960 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.000 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

Tgt Ion: 59 Resp: 644  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

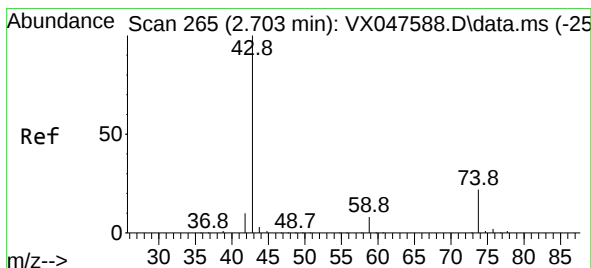
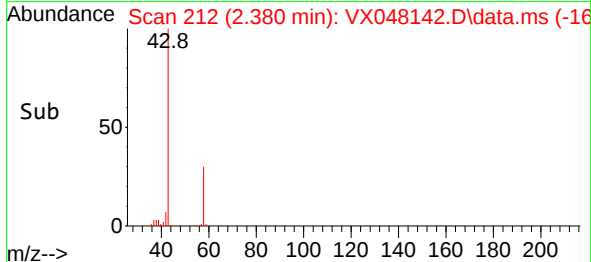
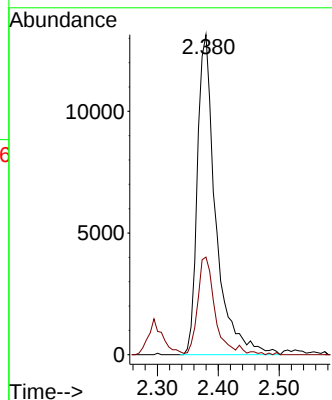
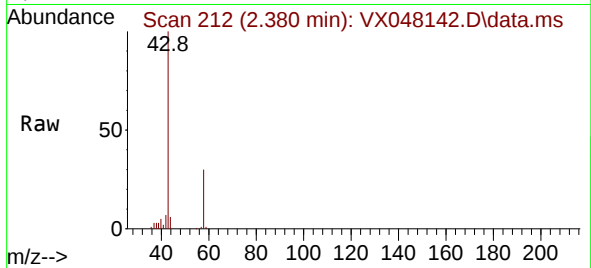




#16  
Acetone  
Concen: 32.341 ug/l  
RT: 2.380 min Scan# 211  
Delta R.T. 0.006 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

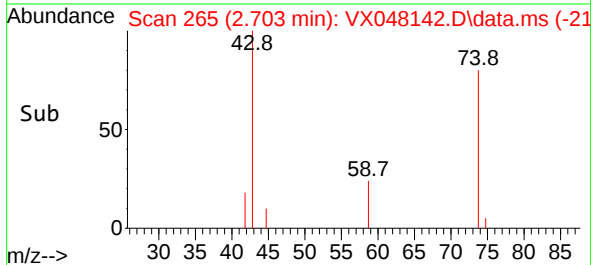
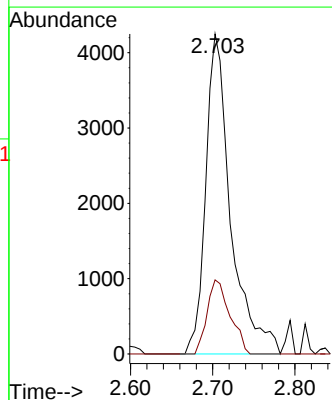
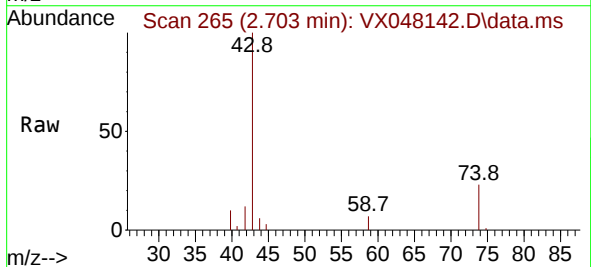
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB170063TB

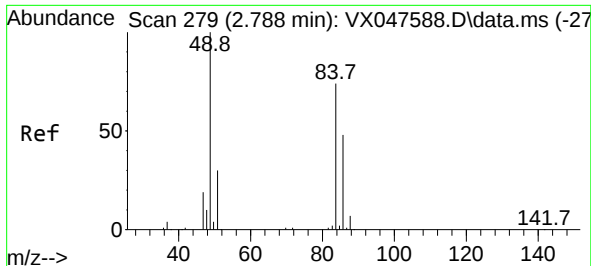
Tgt Ion: 43 Resp: 27468  
Ion Ratio Lower Upper  
43 100  
58 30.5 23.4 35.0



#18  
Methyl Acetate  
Concen: 4.740 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

Tgt Ion: 43 Resp: 8960  
Ion Ratio Lower Upper  
43 100  
74 21.2 17.4 26.2

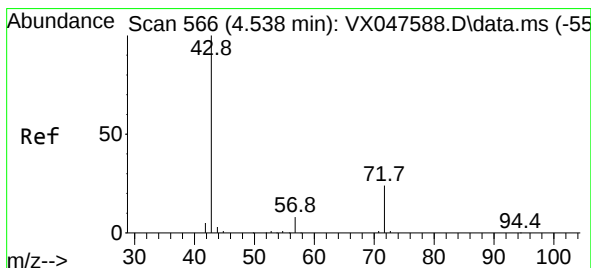
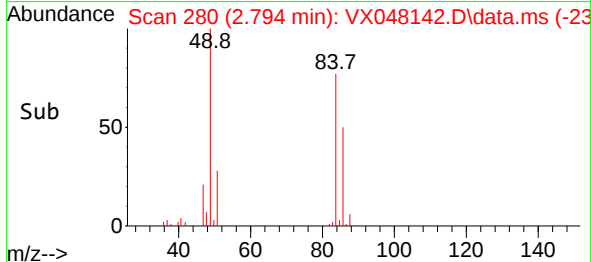
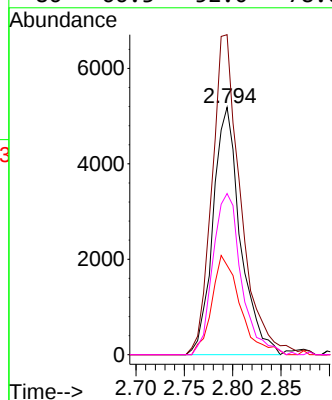
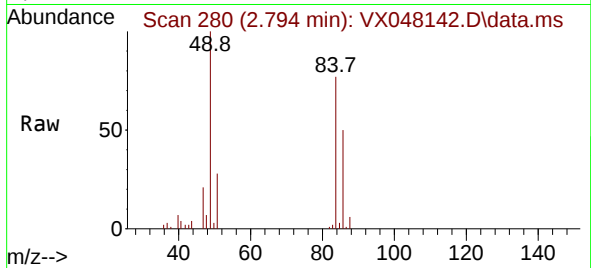




#20  
Methylene Chloride  
Concen: 5.667 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

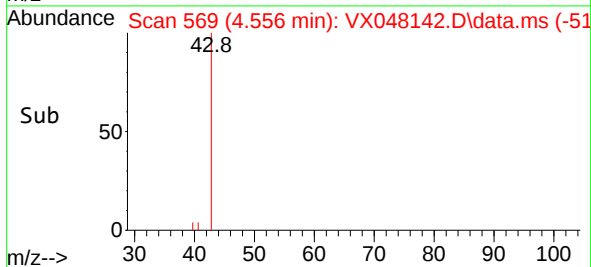
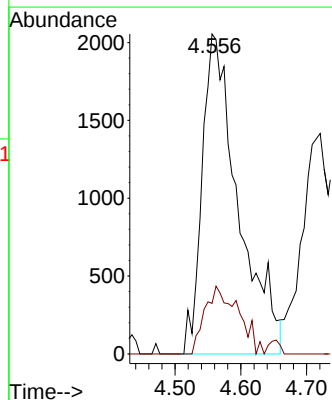
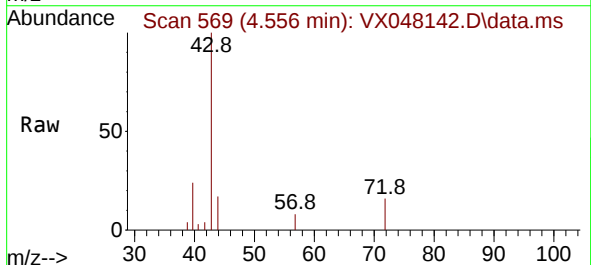
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB170063TB

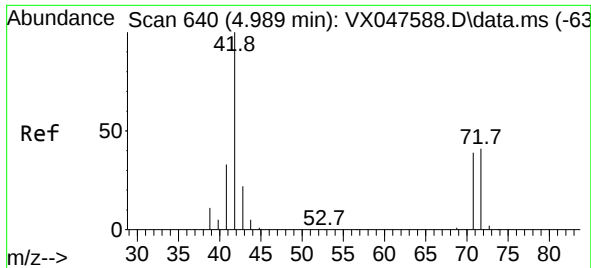
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 10188 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 129.4 | 108.6 | 162.8 |
| 51       | 36.1  | 32.6  | 48.8  |
| 86       | 66.3  | 52.0  | 78.0  |



#25  
2-Butanone  
Concen: 7.425 ug/l  
RT: 4.556 min Scan# 569  
Delta R.T. 0.018 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 7866  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 18.3  | 20.1  | 30.1# |

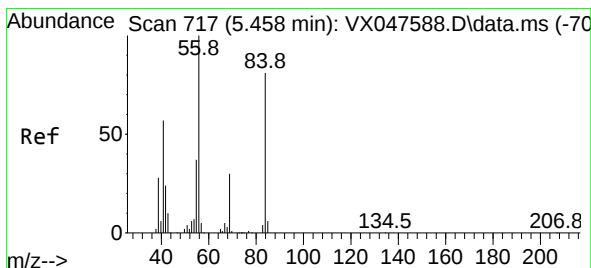
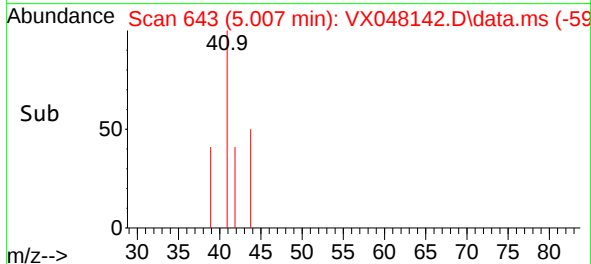
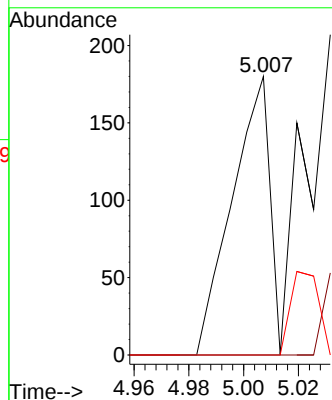
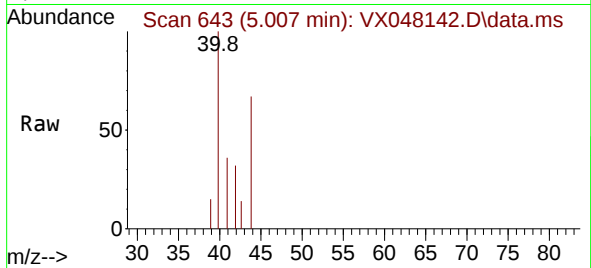




#29  
Tetrahydrofuran  
Concen: 0.268 ug/l  
RT: 5.007 min Scan# 640  
Delta R.T. 0.018 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

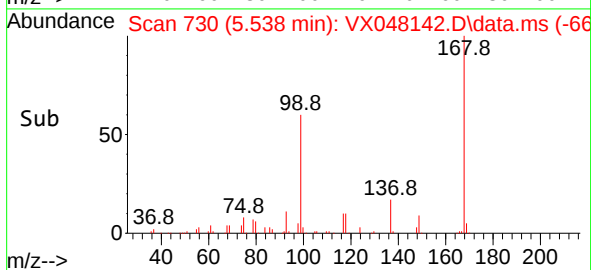
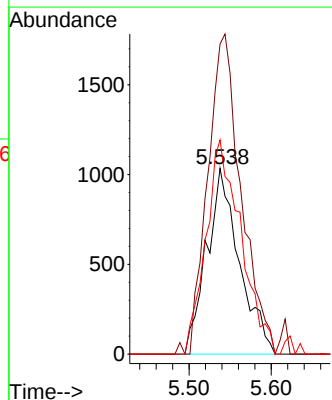
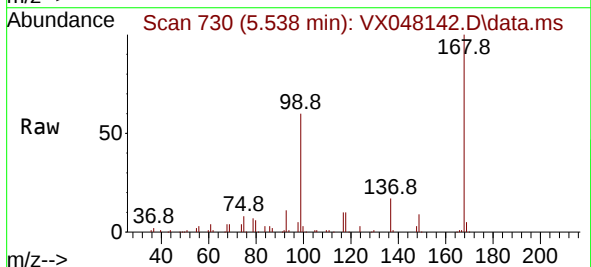
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB170063TB

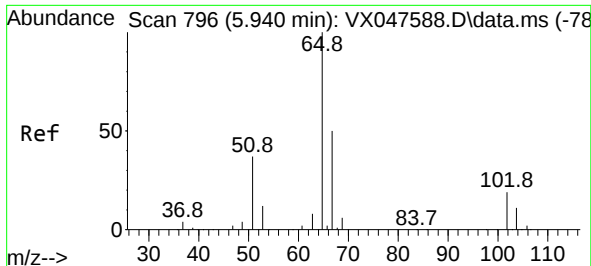
Tgt Ion: 42 Resp: 171  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.2 51.2#  
71 22.2 31.9 47.9#



#31  
Cyclohexane  
Concen: 1.105 ug/l  
RT: 5.538 min Scan# 730  
Delta R.T. 0.079 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

Tgt Ion: 56 Resp: 2851  
Ion Ratio Lower Upper  
56 100  
69 160.8 23.8 35.8#  
84 115.4 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 53.149 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048142.D

Acq: 13 Oct 2025 15:10

Instrument :

MSVOA\_X

ClientSampleId :

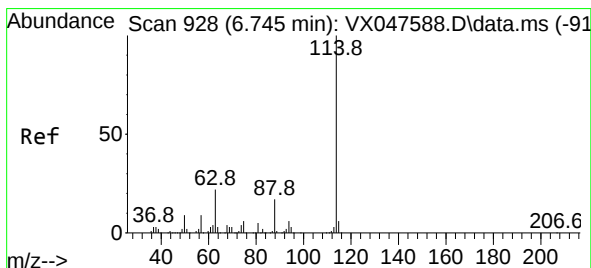
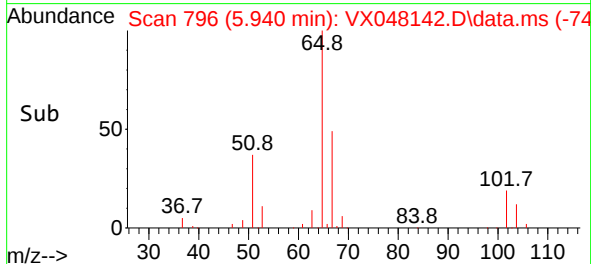
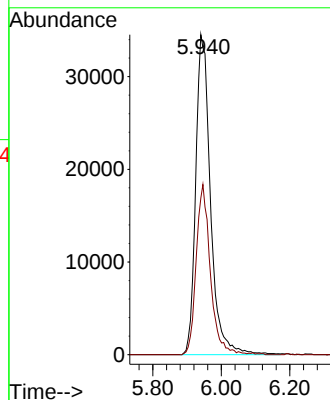
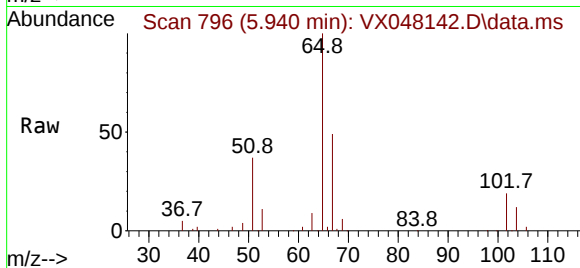
PB170063TB

Tgt Ion: 65 Resp: 103817

Ion Ratio Lower Upper

65 100

67 50.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048142.D

Acq: 13 Oct 2025 15:10

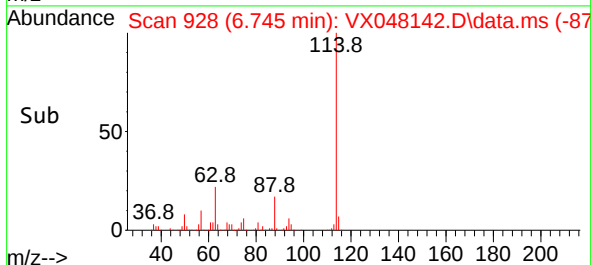
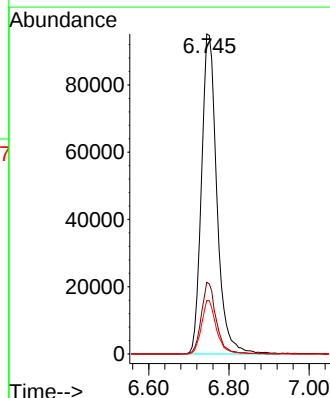
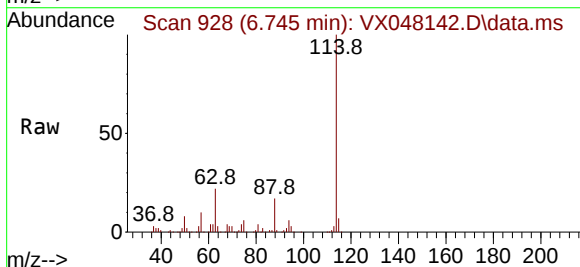
Tgt Ion: 114 Resp: 253968

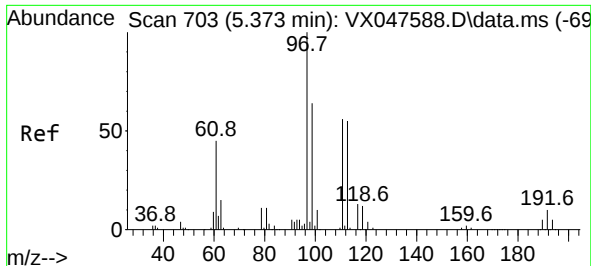
Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.0

88 16.7 0.0 34.2

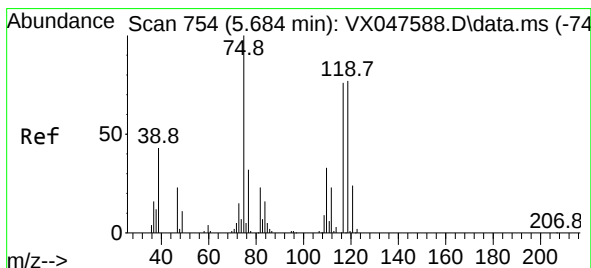
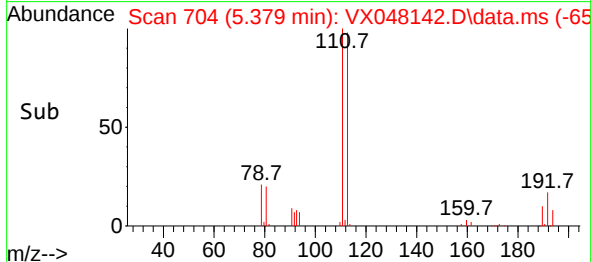
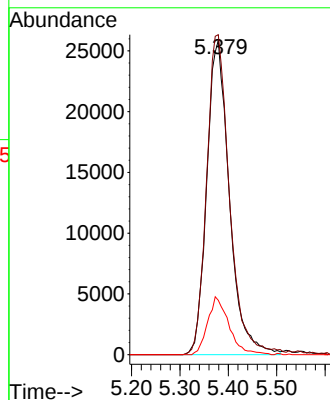
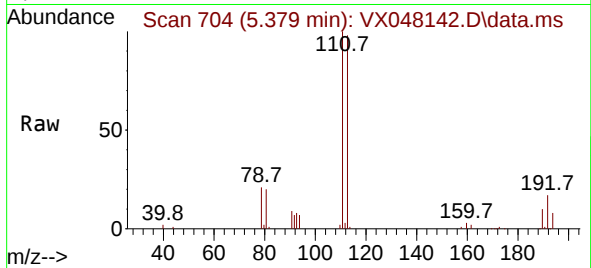




#35  
Dibromofluoromethane  
Concen: 49.326 ug/l  
RT: 5.379 min Scan# 703  
Delta R.T. 0.006 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

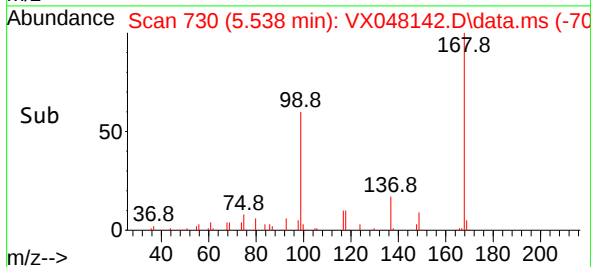
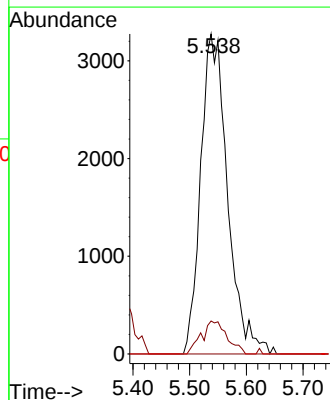
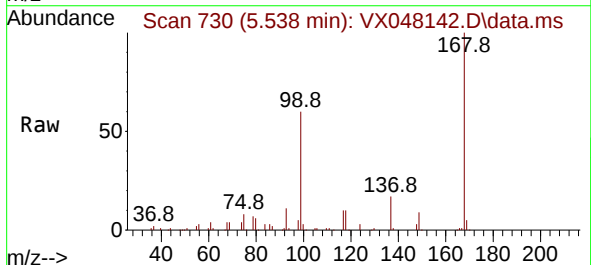
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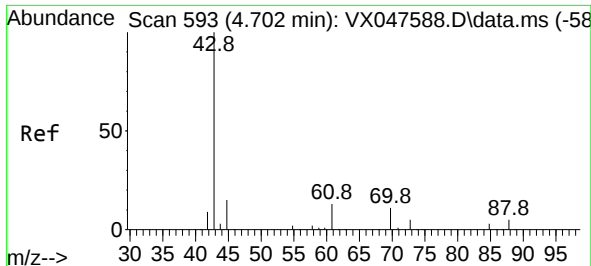
Tgt Ion:113 Resp: 84014  
Ion Ratio Lower Upper  
113 100  
111 103.1 80.9 121.3  
192 17.4 14.2 21.4



#36  
1,1-Dichloropropene  
Concen: 4.322 ug/l  
RT: 5.538 min Scan# 730  
Delta R.T. -0.146 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

Tgt Ion: 75 Resp: 10758  
Ion Ratio Lower Upper  
75 100  
110 9.8 16.7 50.1#  
77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 2.316 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.018 min

Lab File: VX048142.D

Acq: 13 Oct 2025 15:10

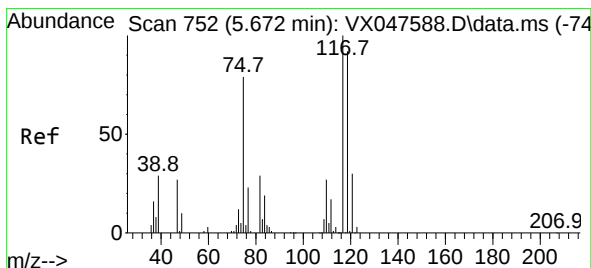
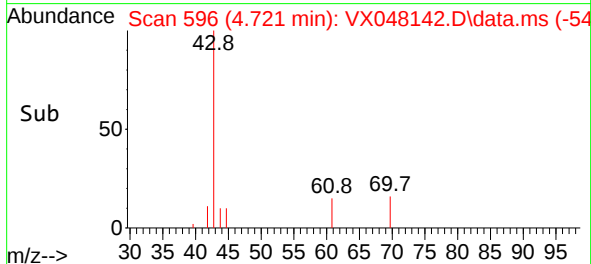
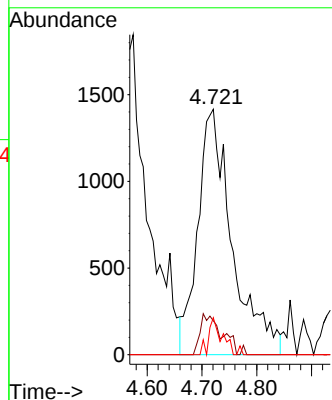
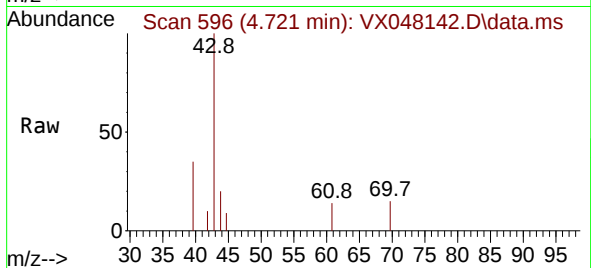
Instrument :

MSVOA\_X

ClientSampleId :

PB170063TB

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 6172  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 8.3   | 9.8   | 14.8# |
| 70       | 5.7   | 7.9   | 11.9# |



#38

Carbon Tetrachloride

Concen: 4.868 ug/l

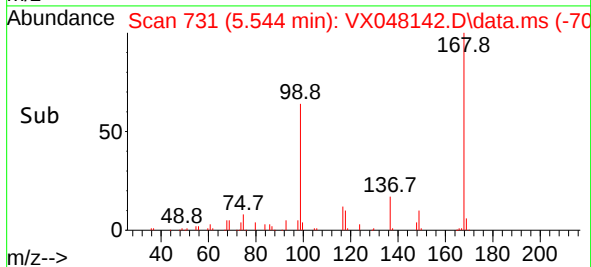
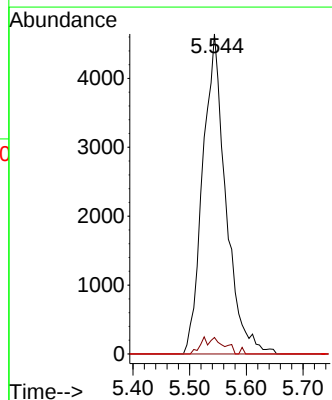
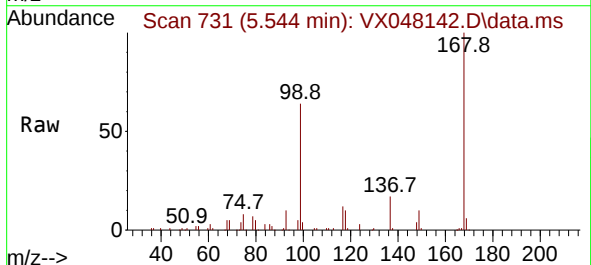
RT: 5.544 min Scan# 731

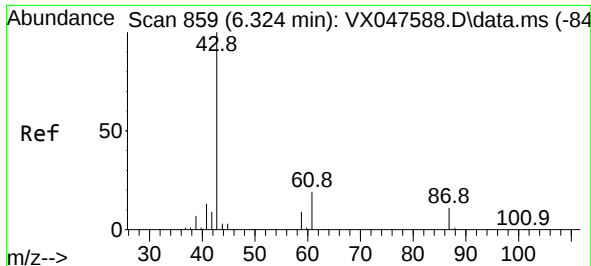
Delta R.T. -0.128 min

Lab File: VX048142.D

Acq: 13 Oct 2025 15:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 13163  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.2   | 73.4  | 110.2# |
| 121      | 0.0   | 23.8  | 35.6#  |

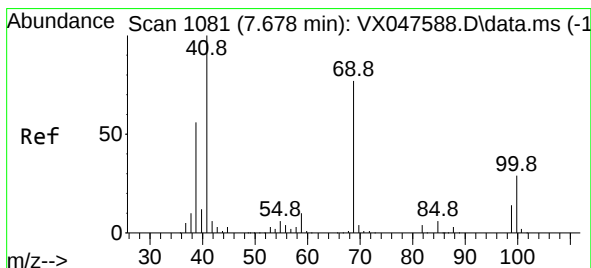
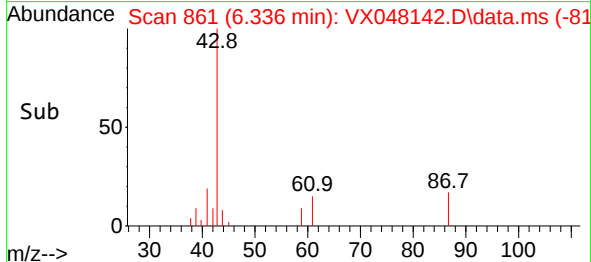
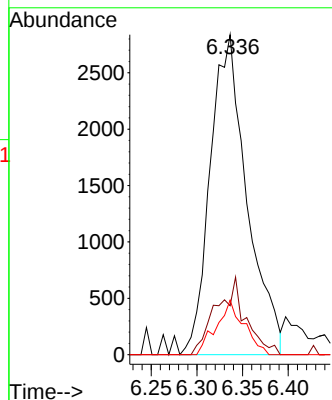
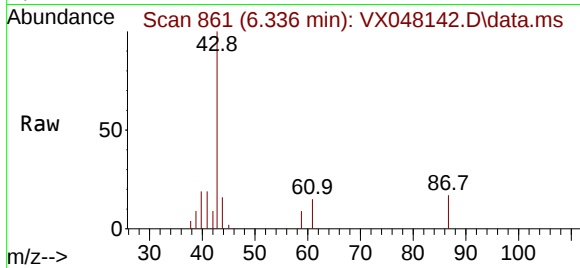




#43  
Isopropyl Acetate  
Concen: 1.819 ug/l  
RT: 6.336 min Scan# 80  
Delta R.T. 0.012 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

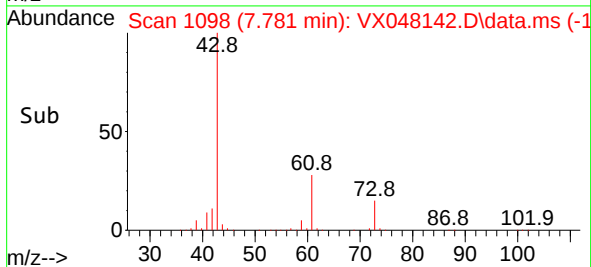
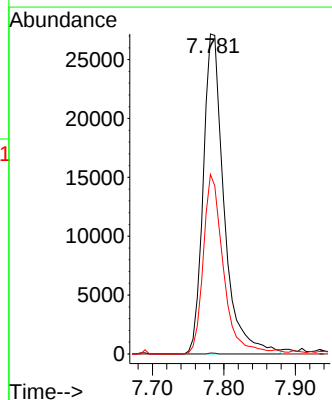
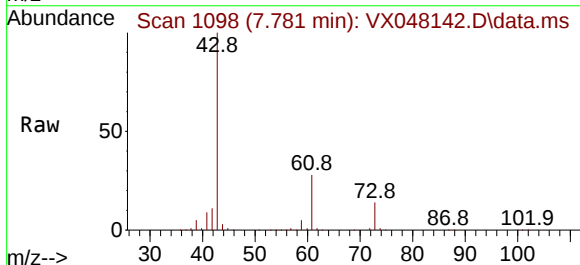
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB170063TB

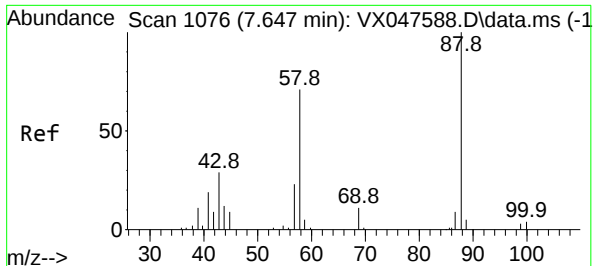
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 7949  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 61 19.5     | 15.2 22.8   |
| 87 12.8     | 9.6 14.4    |



#48  
Methyl methacrylate  
Concen: 25.284 ug/l  
RT: 7.781 min Scan# 1098  
Delta R.T. 0.104 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 55044 |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 69 0.1      | 61.4 92.2#  |
| 39 54.5     | 45.8 68.6   |





#49

1,4-Dioxane

Concen: 0.909 ug/l

RT: 7.671 min Scan# 1076

Delta R.T. 0.024 min

Lab File: VX048142.D

Acq: 13 Oct 2025 15:10

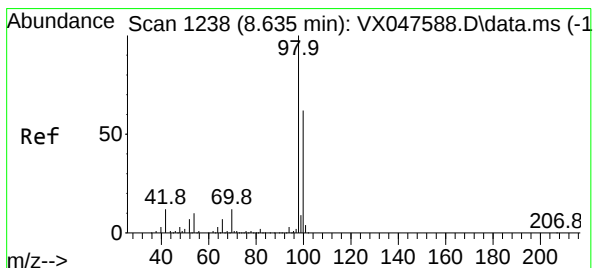
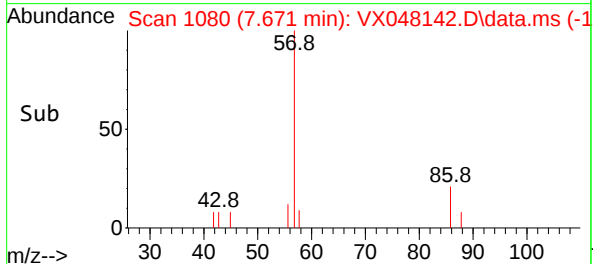
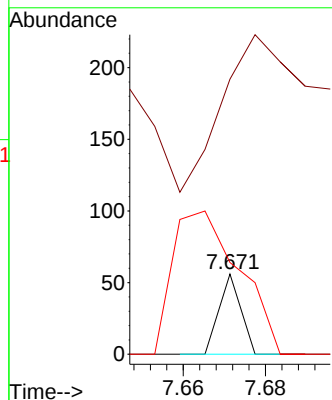
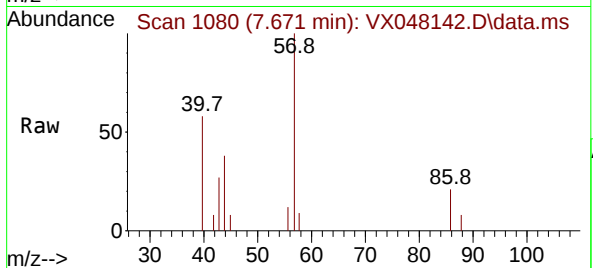
Instrument :

MSVOA\_X

ClientSampleId :

PB170063TB

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 20    |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 0.0   | 30.2  | 45.2# |
| 58       | 565.0 | 59.5  | 89.3# |



#50

Toluene-d8

Concen: 49.854 ug/l

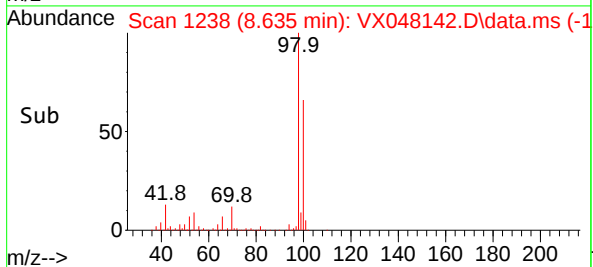
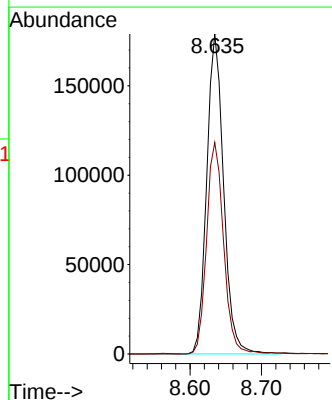
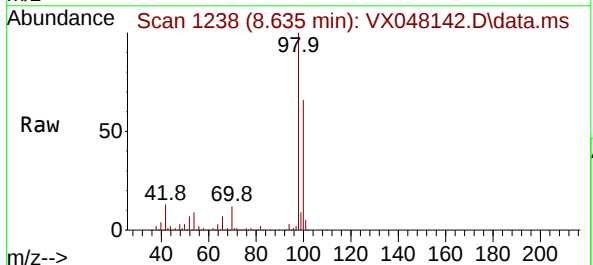
RT: 8.635 min Scan# 1238

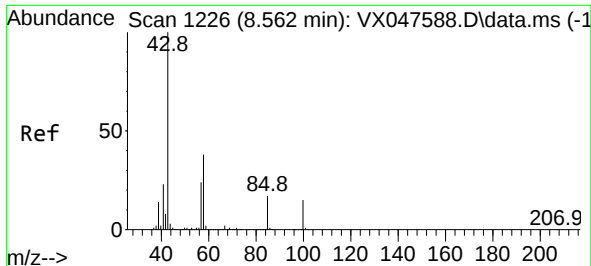
Delta R.T. -0.000 min

Lab File: VX048142.D

Acq: 13 Oct 2025 15:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 293820 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 66.9  | 53.0  | 79.4   |

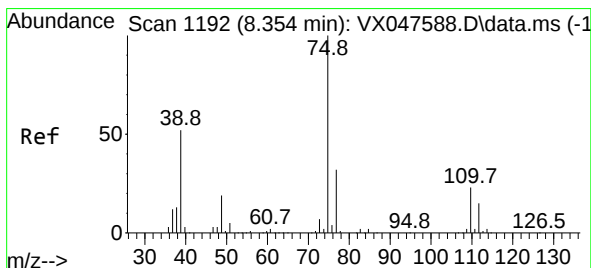
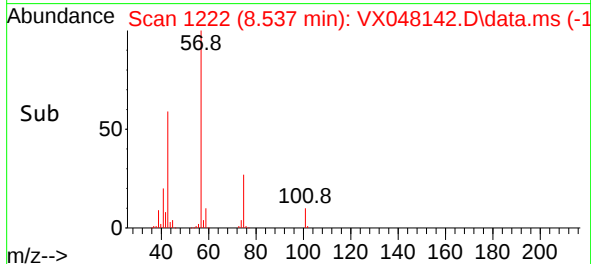
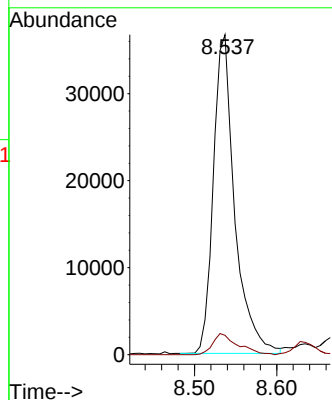
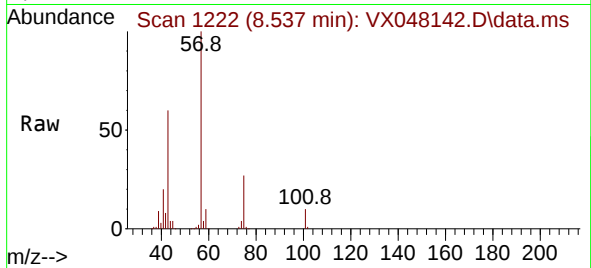




#51  
4-Methyl-2-Pentanone  
Concen: 27.279 ug/l  
RT: 8.537 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

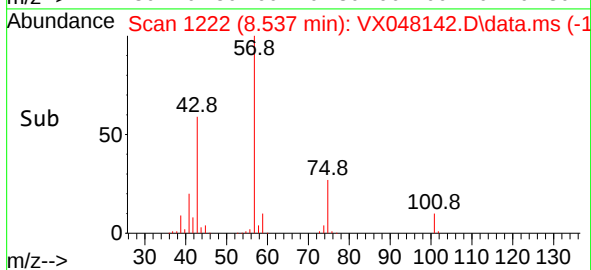
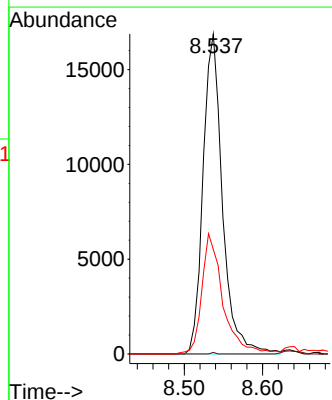
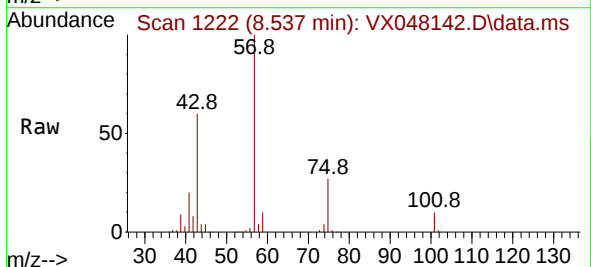
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB170063TB

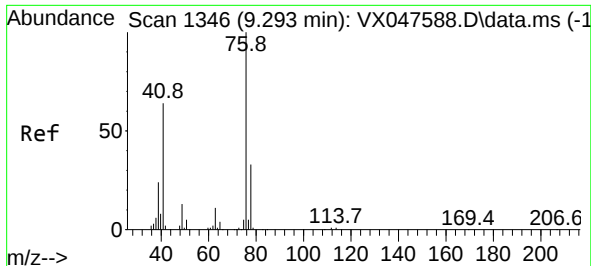
Tgt Ion: 43 Resp: 66103  
Ion Ratio Lower Upper  
43 100  
58 7.7 30.3 45.5#



#54  
cis-1,3-Dichloropropene  
Concen: 9.168 ug/l  
RT: 8.537 min Scan# 1222  
Delta R.T. 0.183 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

Tgt Ion: 75 Resp: 29053  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.8 38.6#  
39 32.0 41.4 62.2#

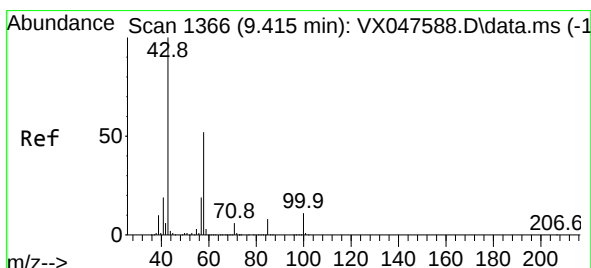
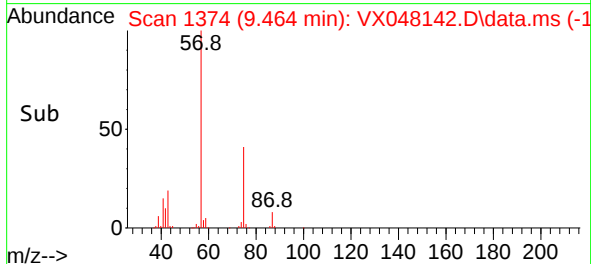
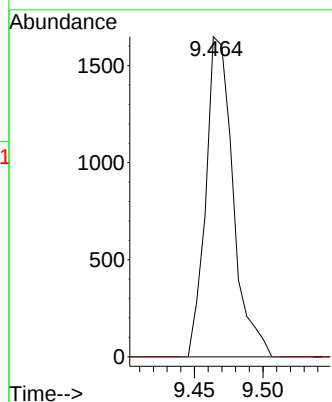
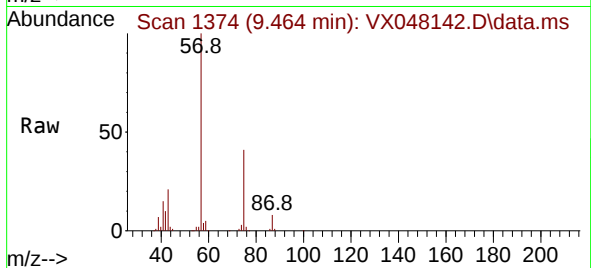




#57  
1,3-Dichloropropane  
Concen: 0.740 ug/l  
RT: 9.464 min Scan# 11  
Delta R.T. 0.171 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

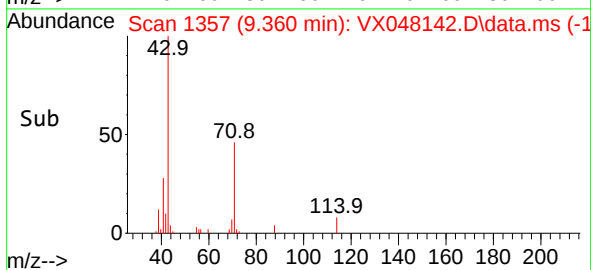
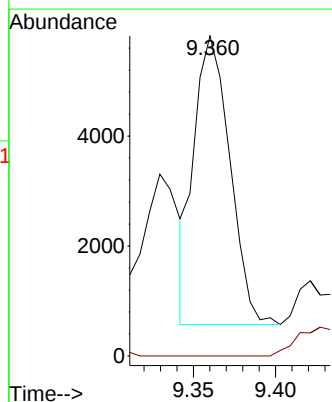
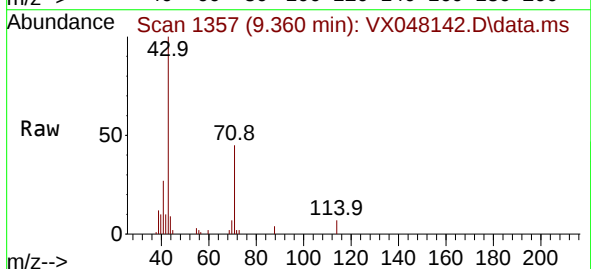
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB170063TB

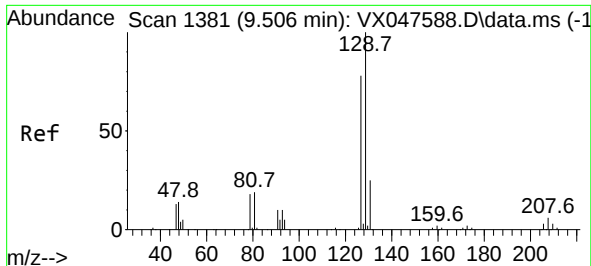
Tgt Ion: 76 Resp: 2283  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.2 39.4#



#59  
2-Hexanone  
Concen: 4.562 ug/l  
RT: 9.360 min Scan# 1357  
Delta R.T. -0.055 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

Tgt Ion: 43 Resp: 7940  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.1 78.2#

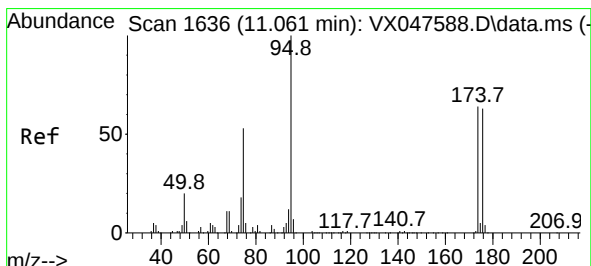
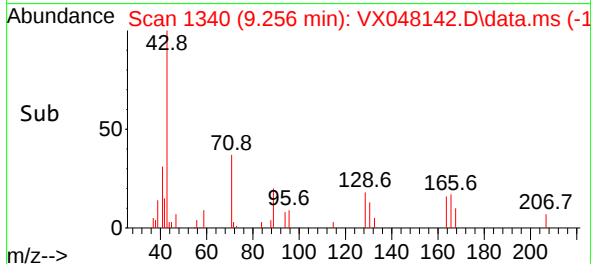
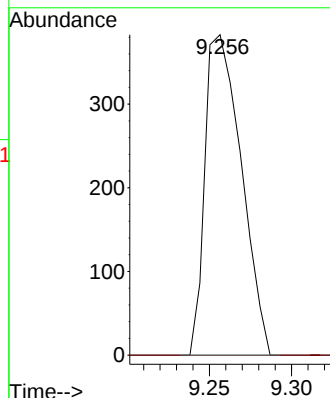
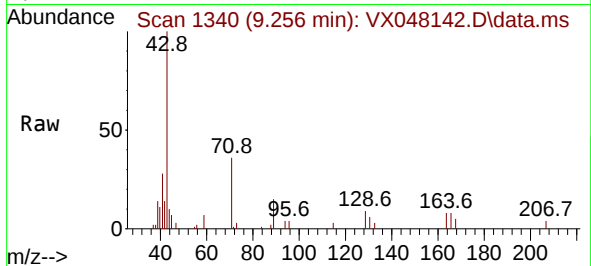




#60  
Dibromochloromethane  
Concen: 0.284 ug/l  
RT: 9.256 min Scan# 11  
Delta R.T. -0.250 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

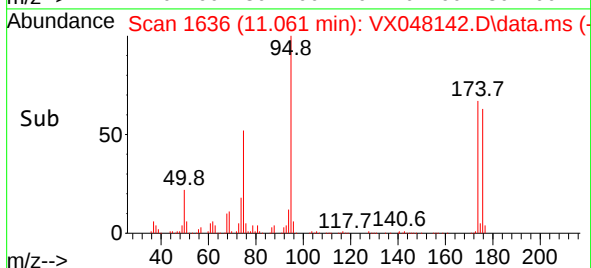
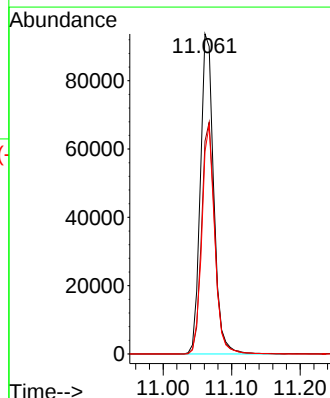
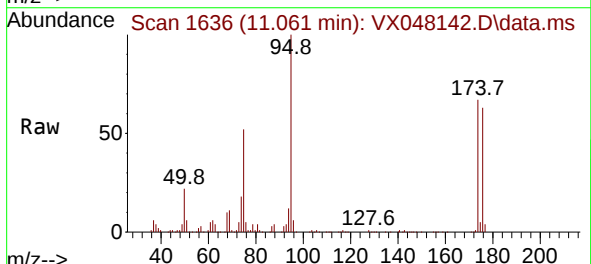
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB170063TB

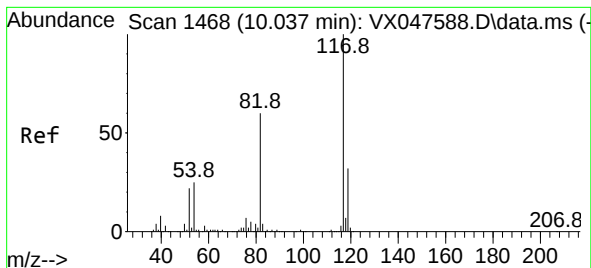
Tgt Ion:129 Resp: 588  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#



#62  
4-Bromofluorobenzene  
Concen: 56.709 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: VX048142.D  
Acq: 13 Oct 2025 15:10

Tgt Ion: 95 Resp: 126841  
Ion Ratio Lower Upper  
95 100  
174 72.2 0.0 141.6  
176 69.3 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048142.D

Acq: 13 Oct 2025 15:10

Instrument :

MSVOA\_X

ClientSampleId :

PB170063TB

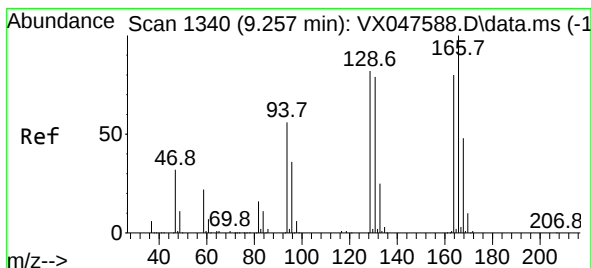
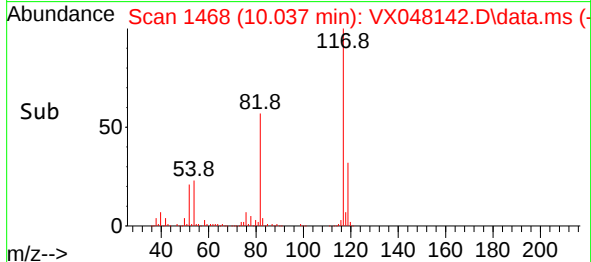
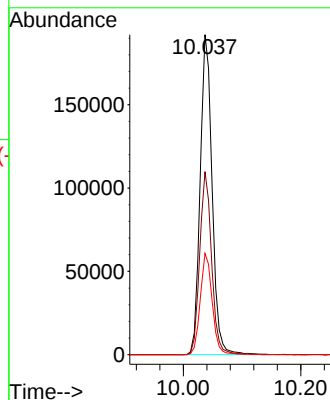
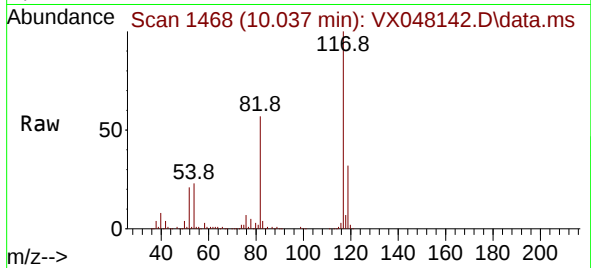
Tgt Ion:117 Resp: 271431

Ion Ratio Lower Upper

117 100

82 57.2 47.8 71.6

119 31.6 25.2 37.8



#64

Tetrachloroethene

Concen: 0.303 ug/l

RT: 9.263 min Scan# 1341

Delta R.T. 0.006 min

Lab File: VX048142.D

Acq: 13 Oct 2025 15:10

Tgt Ion:164 Resp: 537

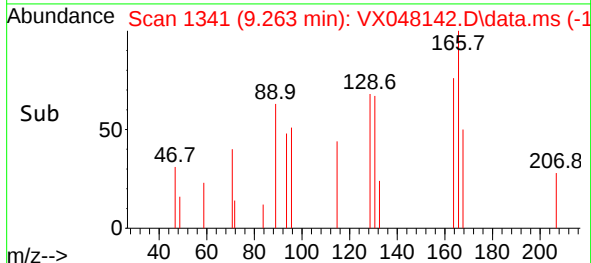
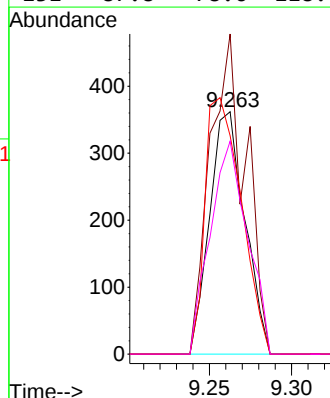
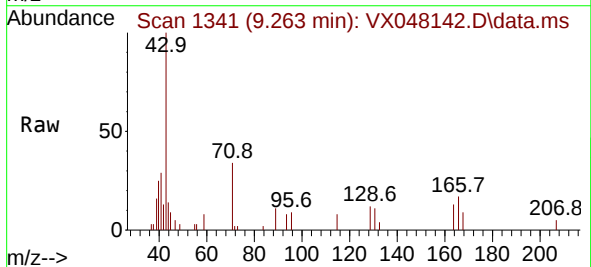
Ion Ratio Lower Upper

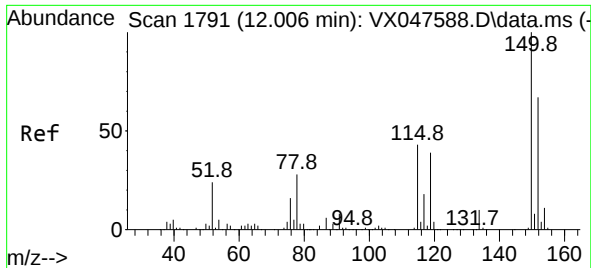
164 100

166 132.0 100.2 150.2

129 90.1 81.8 122.6

131 87.8 78.6 118.0

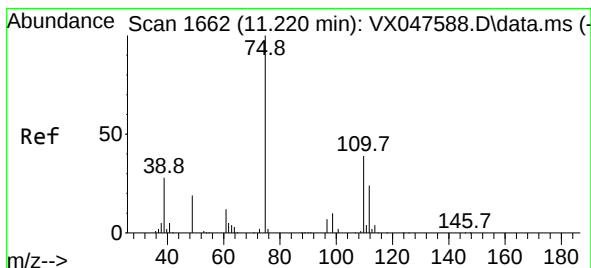
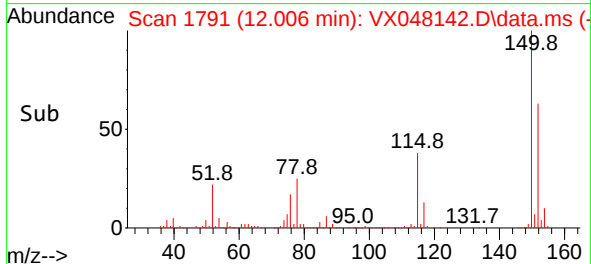
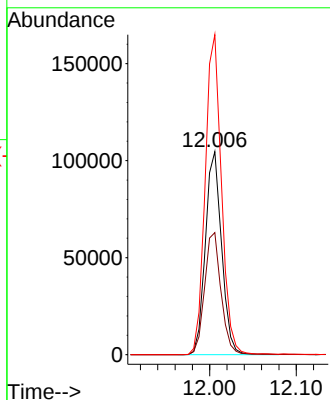
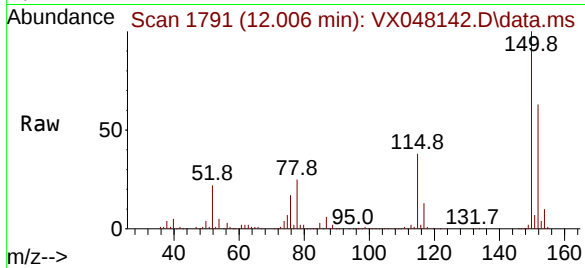




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.006 min Scan# 1  
 Delta R.T. -0.000 min  
 Lab File: VX048142.D  
 Acq: 13 Oct 2025 15:10

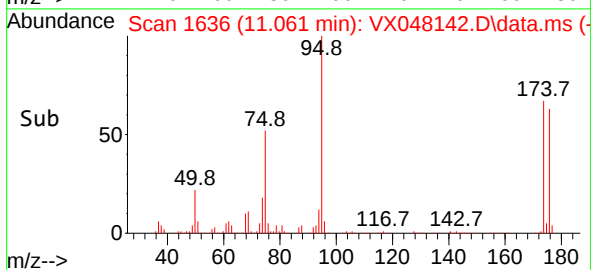
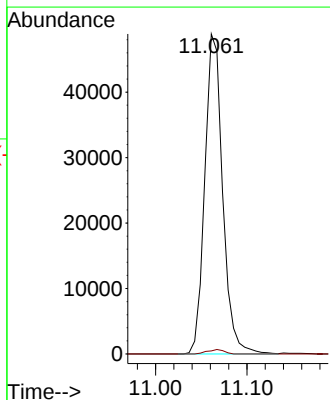
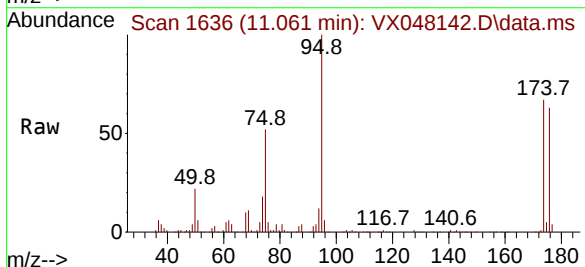
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB170063TB

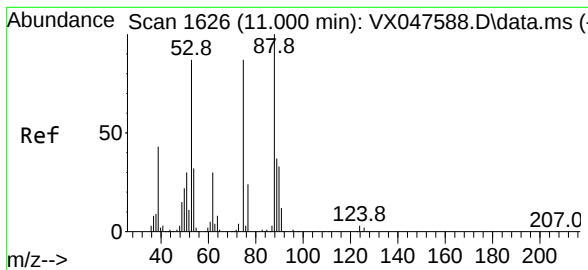
Tgt Ion:152 Resp: 136338  
 Ion Ratio Lower Upper  
 152 100  
 115 61.1 44.9 134.5  
 150 157.9 0.0 352.0



#76  
 1,2,3-Trichloropropane  
 Concen: 24.037 ug/l  
 RT: 11.061 min Scan# 1636  
 Delta R.T. -0.159 min  
 Lab File: VX048142.D  
 Acq: 13 Oct 2025 15:10

Tgt Ion: 75 Resp: 66353  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 18.8 56.4#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 61.299 ug/l  
 RT: 11.061 min Scan# 10  
 Delta R.T. 0.061 min  
 Lab File: VX048142.D  
 Acq: 13 Oct 2025 15:10

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB170063TB

Tgt Ion: 75 Resp: 66353  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 83.4 125.2#  
 89 0.0 36.3 54.5#

