

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112025\  
 Data File : VX048638.D  
 Acq On : 20 Nov 2025 15:36  
 Operator : JC/MD  
 Sample : Q3685-02 100X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 4198

Quant Time: Nov 21 00:34:10 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X110725W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 08 05:08:11 2025  
 Response via : Initial Calibration

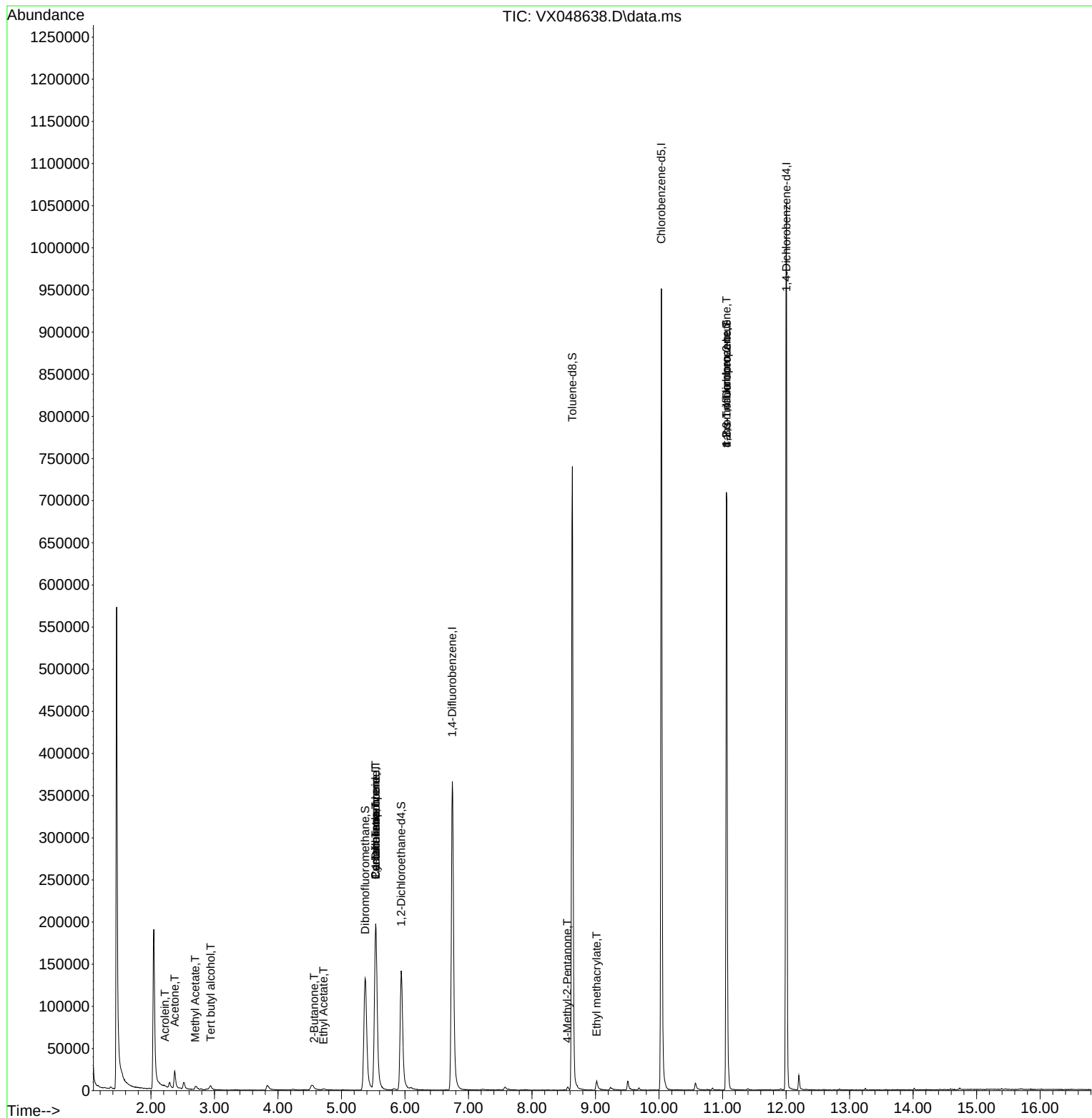
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.538          | 168  | 202804              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.745          | 114  | 406282              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.037         | 117  | 438136              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.006         | 152  | 229391              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.940          | 65   | 155529              | 55.037 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 110.080% |        |        |          |
| 35) Dibromofluoromethane      | 5.373          | 113  | 134437              | 43.719 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 87.440%  |        |        |          |
| 50) Toluene-d8                | 8.635          | 98   | 466468              | 48.639 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 97.280%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.061         | 95   | 206656              | 57.822 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 115.640% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 11) Tert butyl alcohol        | 2.940          | 59   | 5110                | 9.543  | ug/l   | 99       |
| 13) Acrolein                  | 2.221          | 56   | 101                 | 1.304  | ug/l # | 15       |
| 16) Acetone                   | 2.373          | 43   | 26815               | 20.046 | ug/l   | 95       |
| 18) Methyl Acetate            | 2.697          | 43   | 5300                | 1.442  | ug/l   | 91       |
| 25) 2-Butanone                | 4.568          | 43   | 1794                | 0.907  | ug/l # | 48       |
| 31) Cyclohexane               | 5.538          | 56   | 4374                | 1.153  | ug/l # | 31       |
| 36) 1,1-Dichloropropene       | 5.538          | 75   | 16389               | 3.980  | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.715          | 43   | 2482                | 0.428  | ug/l # | 84       |
| 38) Carbon Tetrachloride      | 5.538          | 117  | 20007               | 4.268  | ug/l # | 18       |
| 51) 4-Methyl-2-Pentanone      | 8.555          | 43   | 2716                | 0.586  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 9.019          | 69   | 2201                | 0.493  | ug/l # | 55       |
| 76) 1,2,3-Trichloropropane    | 11.061         | 75   | 106349              | 19.244 | ug/l # | 30       |
| 81) trans-1,4-Dichloro-2-b... | 11.061         | 75   | 106349              | 55.044 | ug/l # | 12       |
| -----                         |                |      |                     |        |        |          |

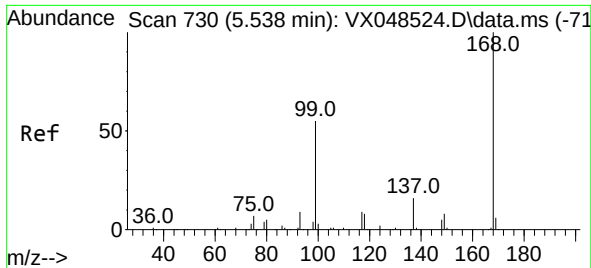
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112025\  
Data File : VX048638.D  
Acq On : 20 Nov 2025 15:36  
Operator : JC/MD  
Sample : Q3685-02 100X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
4198

Quant Time: Nov 21 00:34:10 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X110725W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 08 05:08:11 2025  
Response via : Initial Calibration

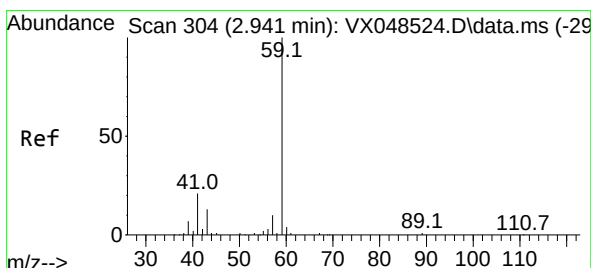
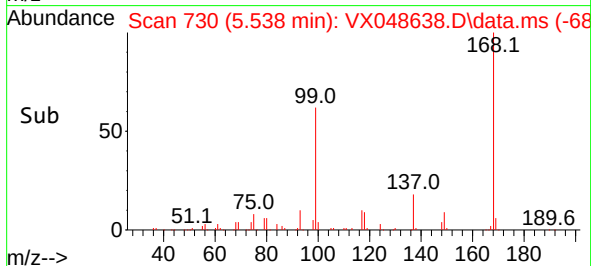
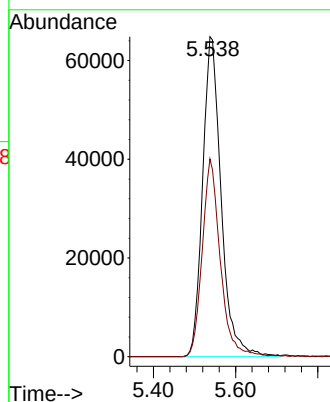
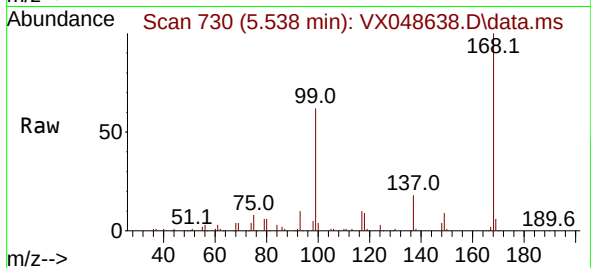




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.538 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

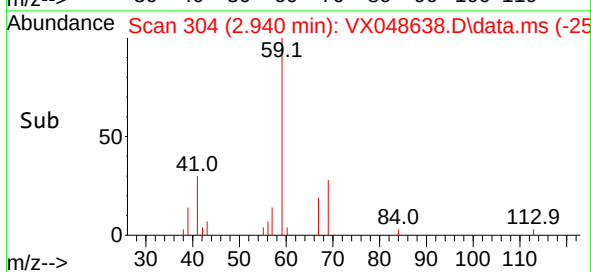
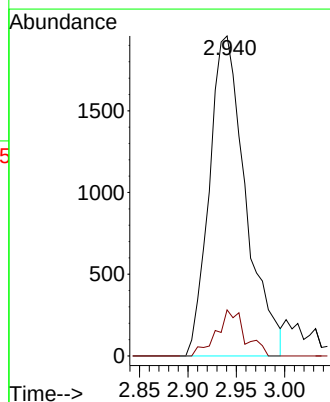
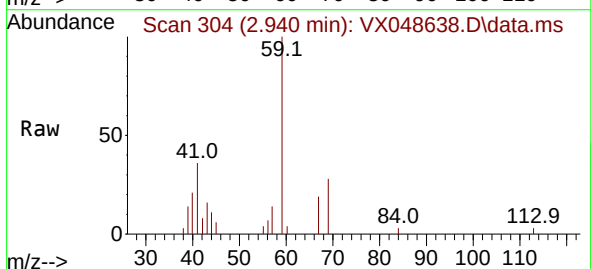
Instrument :  
MSVOA\_X  
ClientSampleId :  
4198

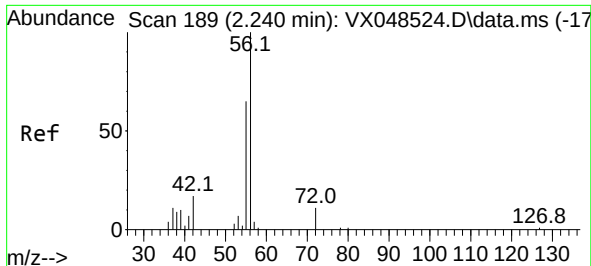
Tgt Ion:168 Resp: 202804  
Ion Ratio Lower Upper  
168 100  
99 61.8 45.2 67.8



#11  
Tert butyl alcohol  
Concen: 9.543 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.000 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

Tgt Ion: 59 Resp: 5110  
Ion Ratio Lower Upper  
59 100  
57 11.2 8.6 13.0

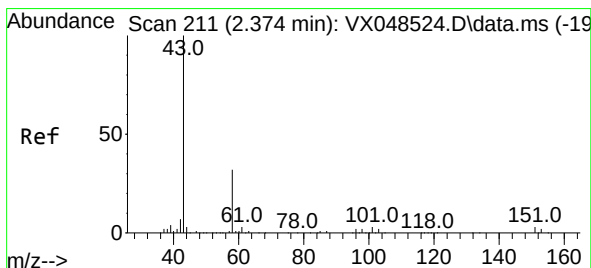
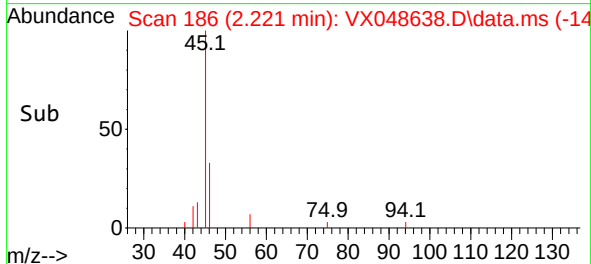
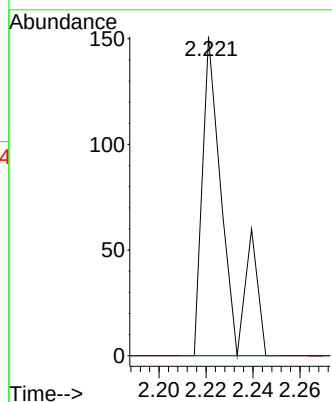
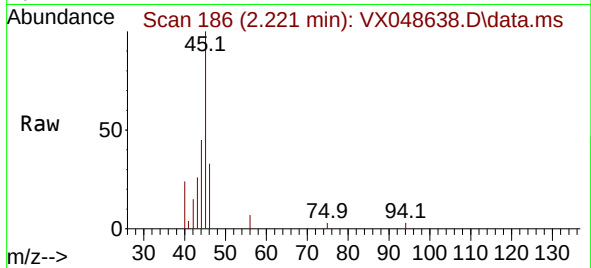




#13  
Acrolein  
Concen: 1.304 ug/l  
RT: 2.221 min Scan# 186  
Delta R.T. -0.018 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

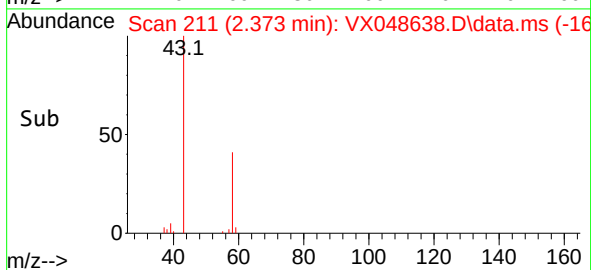
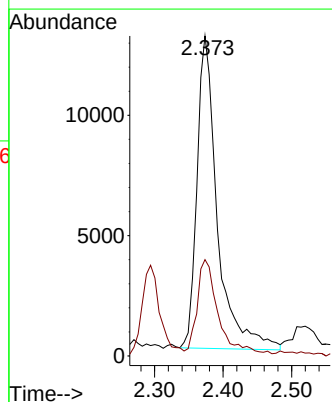
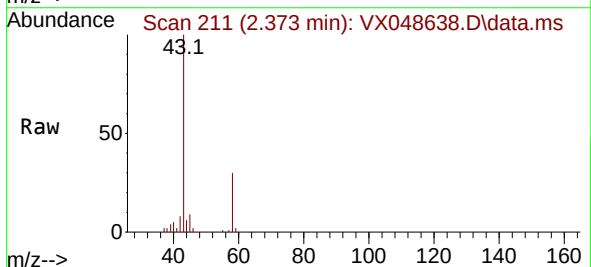
Instrument :  
MSVOA\_X  
ClientSampleId :  
4198

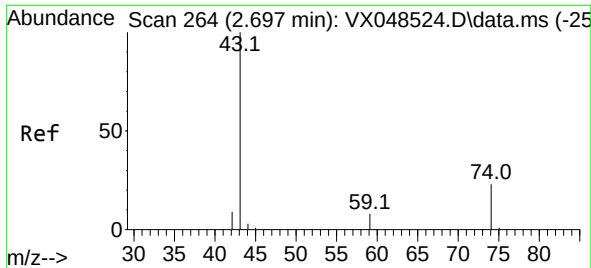
Tgt Ion: 56 Resp: 101  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.9 82.3#



#16  
Acetone  
Concen: 20.046 ug/l  
RT: 2.373 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

Tgt Ion: 43 Resp: 26815  
Ion Ratio Lower Upper  
43 100  
58 29.3 25.8 38.6

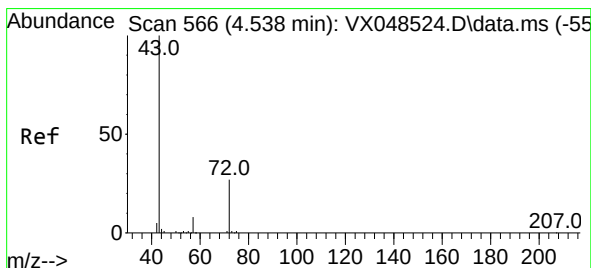
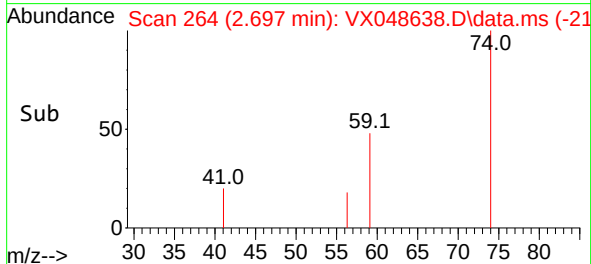
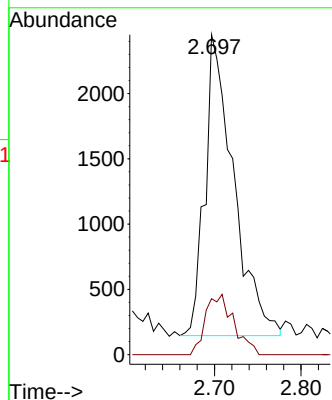
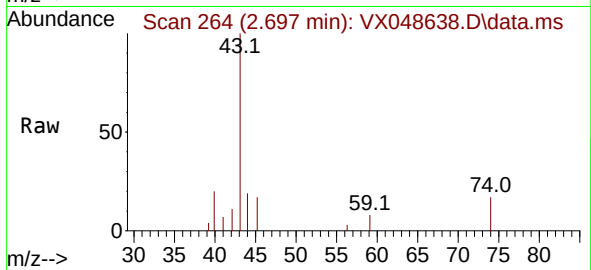




#18  
Methyl Acetate  
Concen: 1.442 ug/l  
RT: 2.697 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

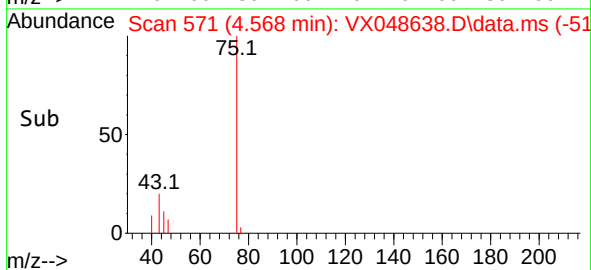
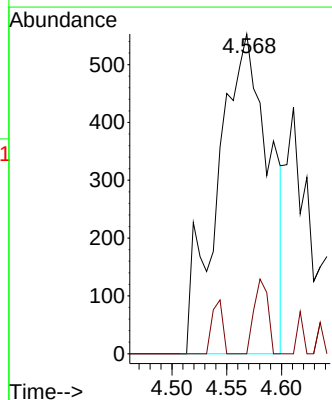
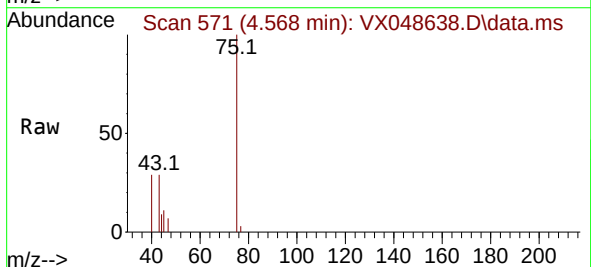
Instrument :  
MSVOA\_X  
ClientSampleId :  
4198

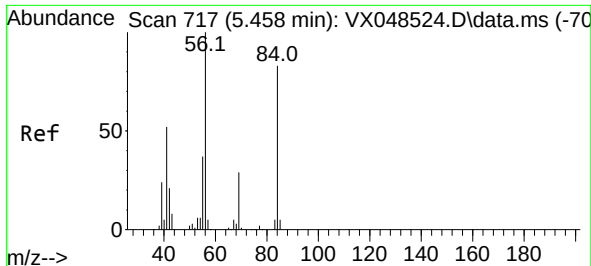
Tgt Ion: 43 Resp: 5300  
Ion Ratio Lower Upper  
43 100  
74 19.7 19.1 28.7



#25  
2-Butanone  
Concen: 0.907 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.030 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

Tgt Ion: 43 Resp: 1794  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.5 32.3#

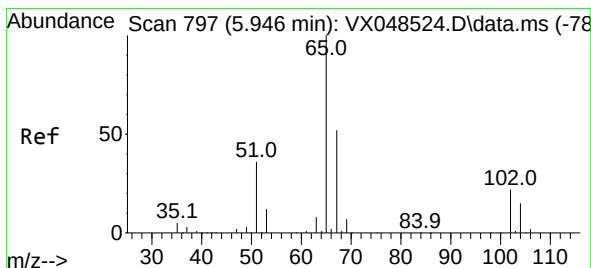
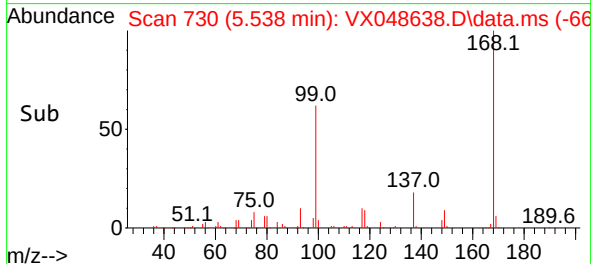
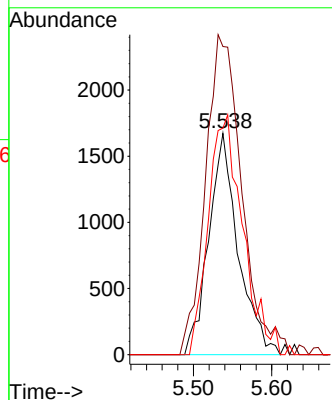
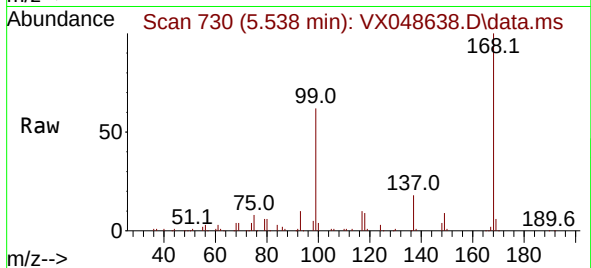




#31  
Cyclohexane  
Concen: 1.153 ug/l  
RT: 5.538 min Scan# 717  
Delta R.T. 0.079 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

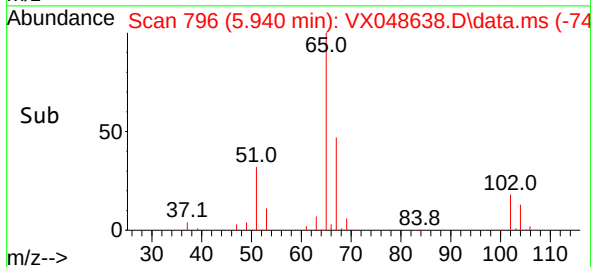
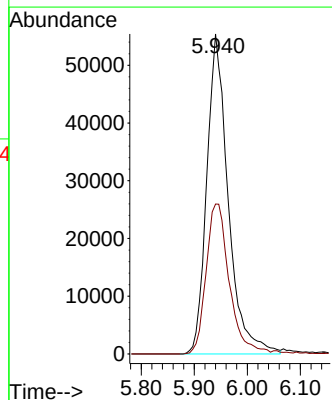
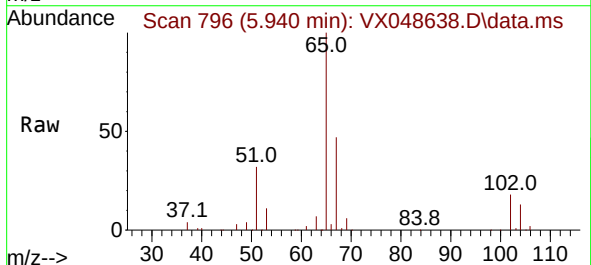
Instrument :  
MSVOA\_X  
ClientSampleId :  
4198

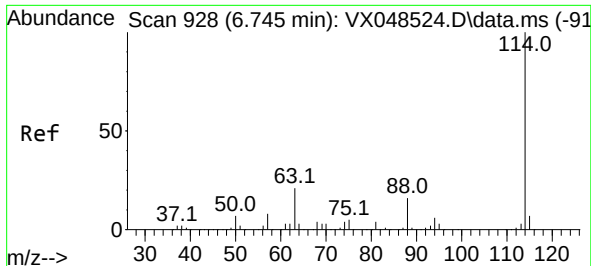
Tgt Ion: 56 Resp: 4374  
Ion Ratio Lower Upper  
56 100  
69 139.2 23.4 35.2#  
84 102.3 66.3 99.5#



#33  
1,2-Dichloroethane-d4  
Concen: 55.037 ug/l  
RT: 5.940 min Scan# 796  
Delta R.T. -0.006 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

Tgt Ion: 65 Resp: 155529  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 106.2

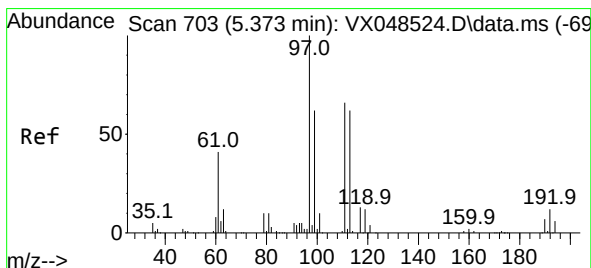
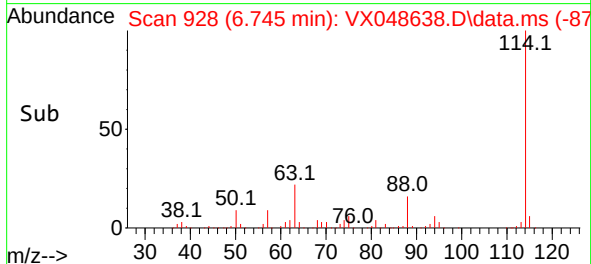
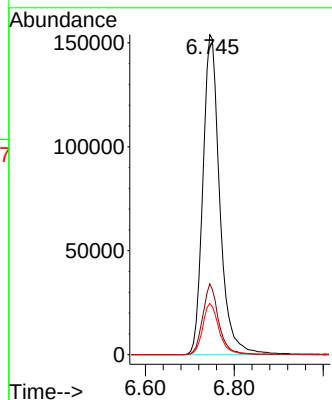
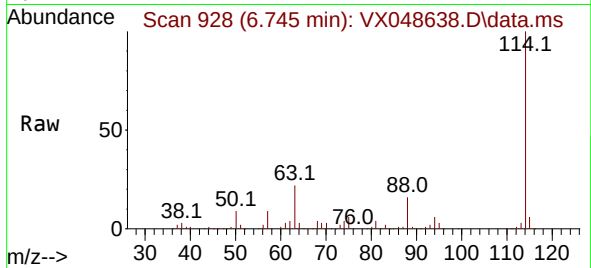




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.745 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

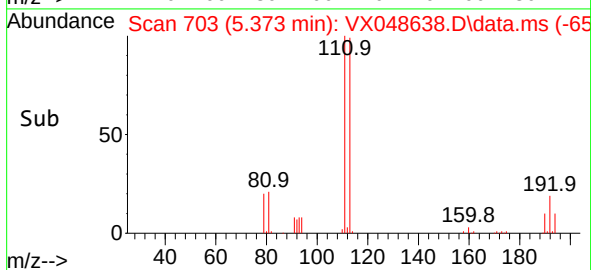
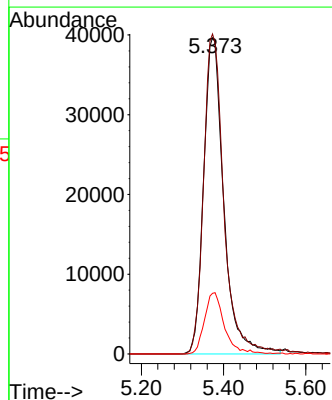
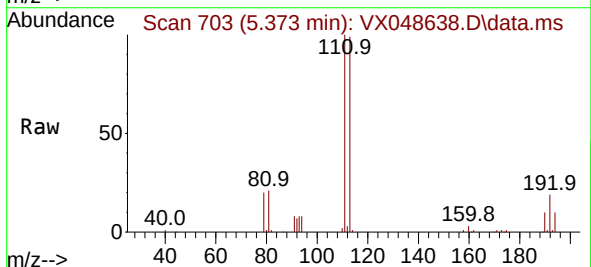
Instrument :  
MSVOA\_X  
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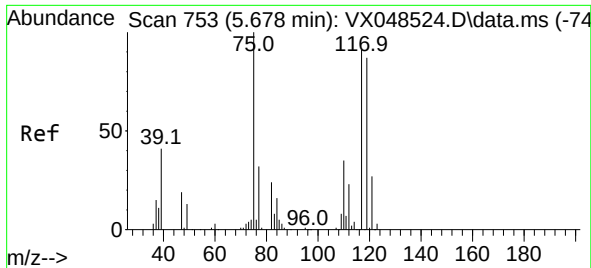
Tgt Ion:114 Resp: 406282  
Ion Ratio Lower Upper  
114 100  
63 22.1 0.0 41.2  
88 16.0 0.0 32.2



#35  
Dibromofluoromethane  
Concen: 43.719 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

Tgt Ion:113 Resp: 134437  
Ion Ratio Lower Upper  
113 100  
111 102.3 81.9 122.9  
192 19.3 15.8 23.6

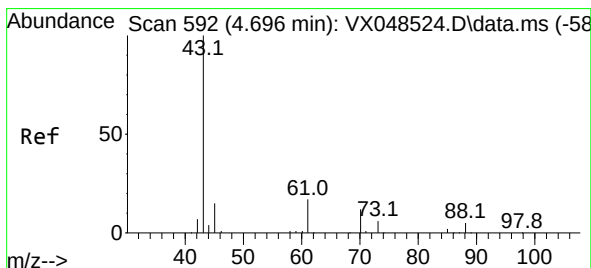
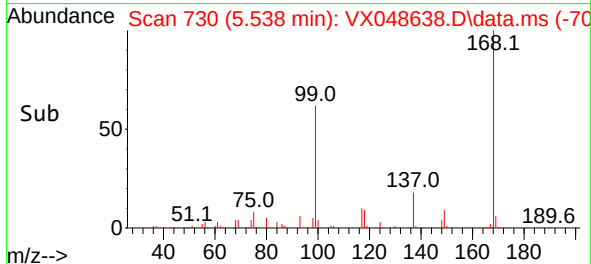
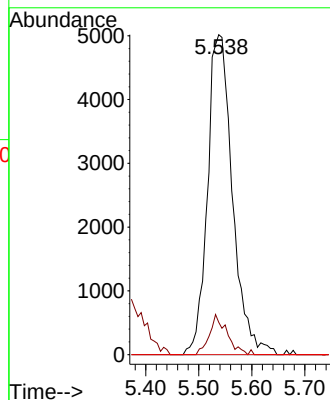
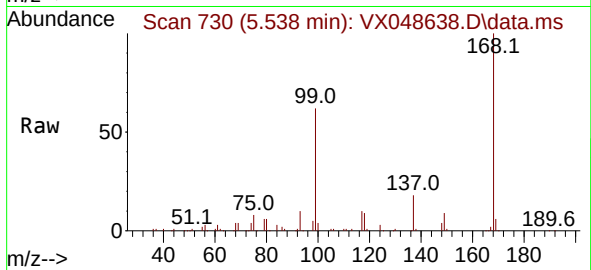




#36  
1,1-Dichloropropene  
Concen: 3.980 ug/l  
RT: 5.538 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

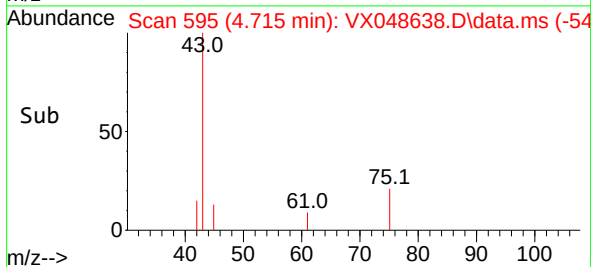
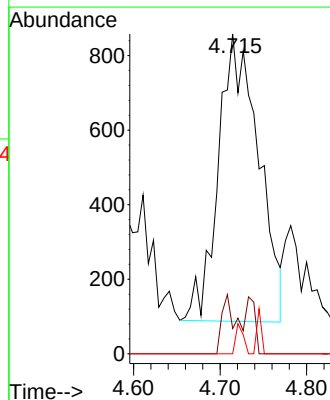
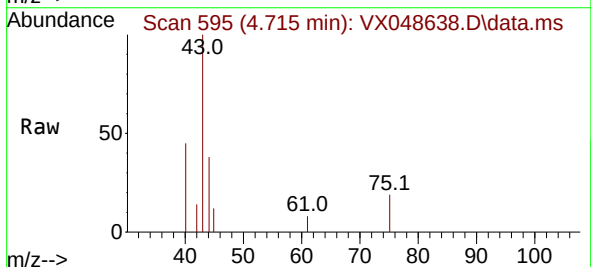
Instrument :  
MSVOA\_X  
ClientSampleId :  
4198

Tgt Ion: 75 Resp: 16389  
Ion Ratio Lower Upper  
75 100  
110 8.8 18.4 55.4#  
77 0.0 24.6 37.0#

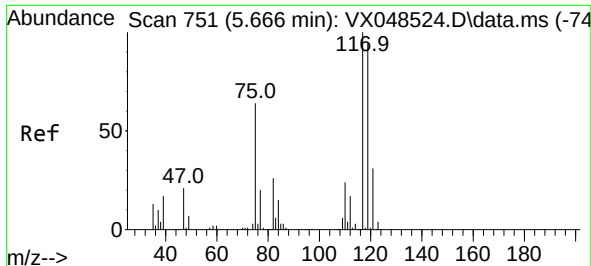


#37  
Ethyl Acetate  
Concen: 0.428 ug/l  
RT: 4.715 min Scan# 595  
Delta R.T. 0.018 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

Tgt Ion: 43 Resp: 2482  
Ion Ratio Lower Upper  
43 100  
61 7.3 9.7 14.5#  
70 1.9 7.7 11.5#



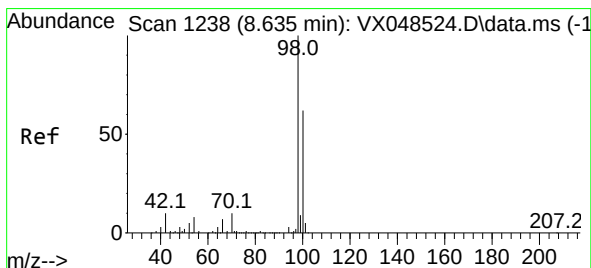
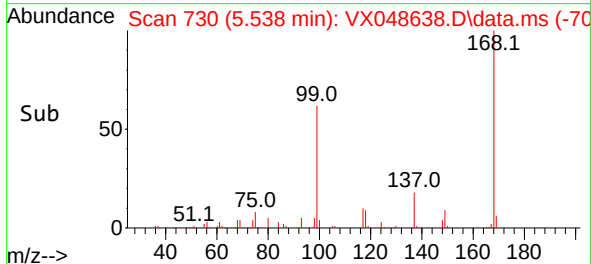
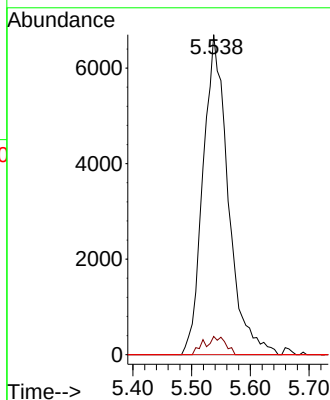
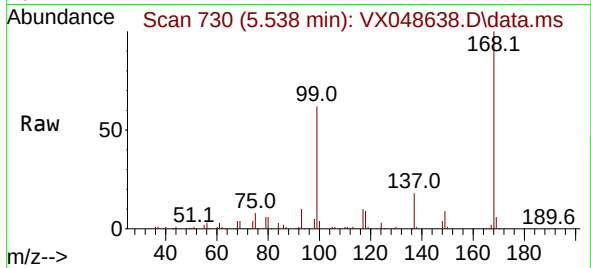




#38  
Carbon Tetrachloride  
Concen: 4.268 ug/l  
RT: 5.538 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

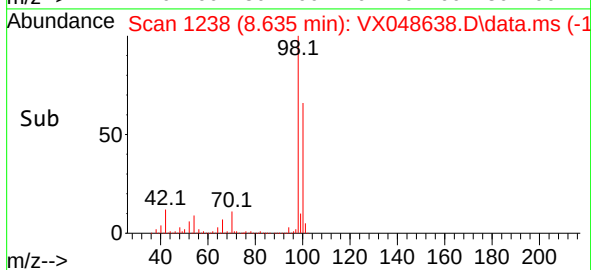
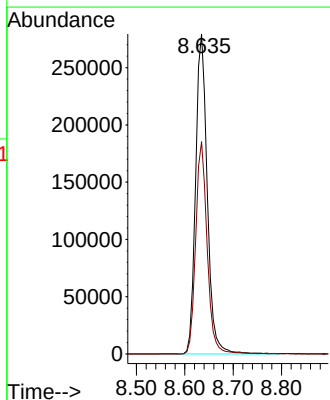
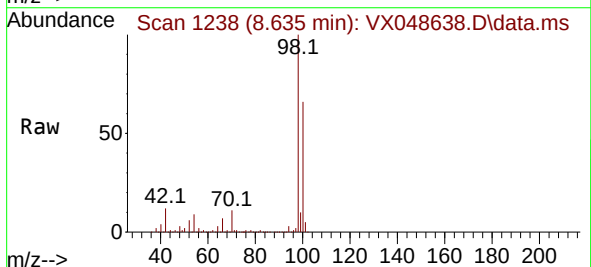
Instrument :  
MSVOA\_X  
ClientSampleId :  
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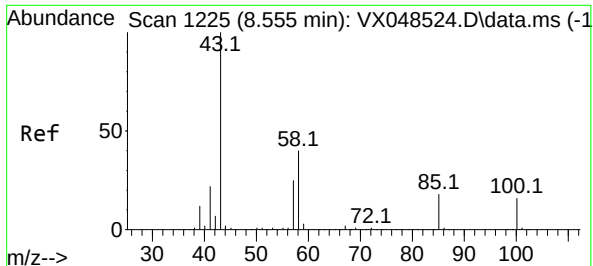
Tgt Ion:117 Resp: 20007  
Ion Ratio Lower Upper  
117 100  
119 5.7 74.5 111.7#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 48.639 ug/l  
RT: 8.635 min Scan# 1238  
Delta R.T. -0.000 min  
Lab File: VX048638.D  
Acq: 20 Nov 2025 15:36

Tgt Ion: 98 Resp: 466468  
Ion Ratio Lower Upper  
98 100  
100 65.3 53.6 80.4





#51

4-Methyl-2-Pentanone

Concen: 0.586 ug/l

RT: 8.555 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048638.D

Acq: 20 Nov 2025 15:36

Instrument :

MSVOA\_X

ClientSampleId :

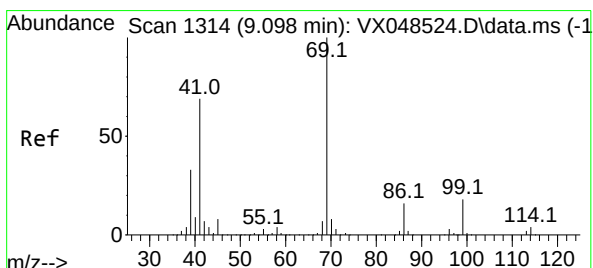
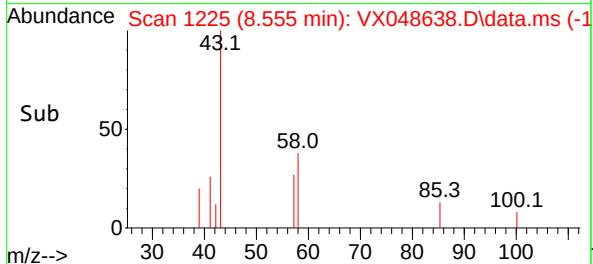
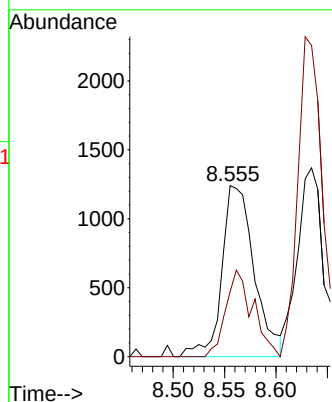
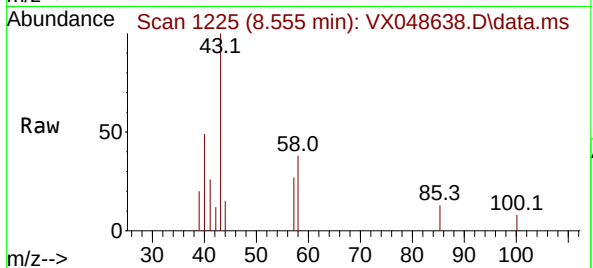
4198

Tgt Ion: 43 Resp: 2716

Ion Ratio Lower Upper

43 100

58 42.4 32.3 48.5



#56

Ethyl methacrylate

Concen: 0.493 ug/l

RT: 9.019 min Scan# 1301

Delta R.T. -0.079 min

Lab File: VX048638.D

Acq: 20 Nov 2025 15:36

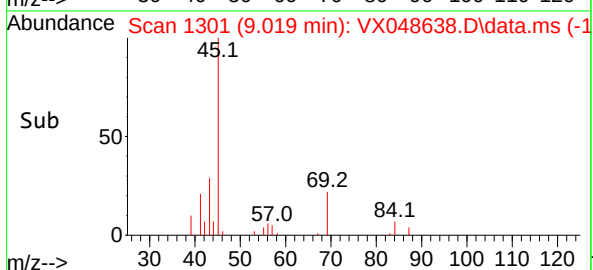
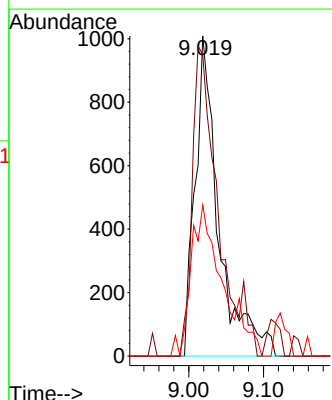
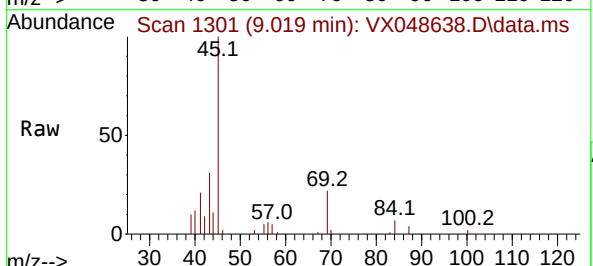
Tgt Ion: 69 Resp: 2201

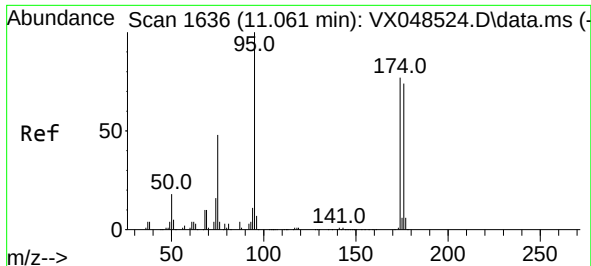
Ion Ratio Lower Upper

69 100

41 99.0 53.3 79.9#

39 63.2 26.1 39.1#





#62

4-Bromofluorobenzene

Concen: 57.822 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048638.D

Acq: 20 Nov 2025 15:36

Instrument :

MSVOA\_X

ClientSampleId :

4198

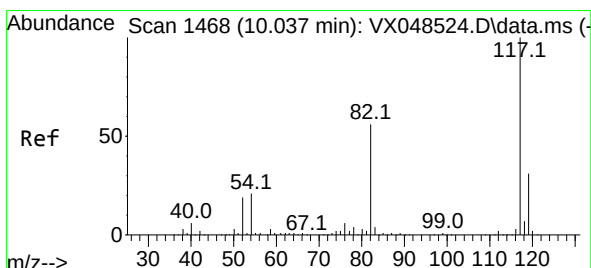
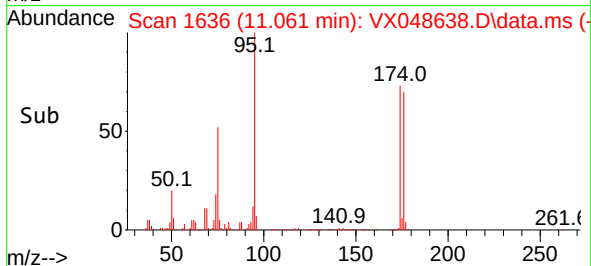
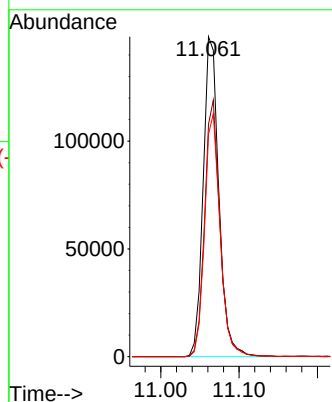
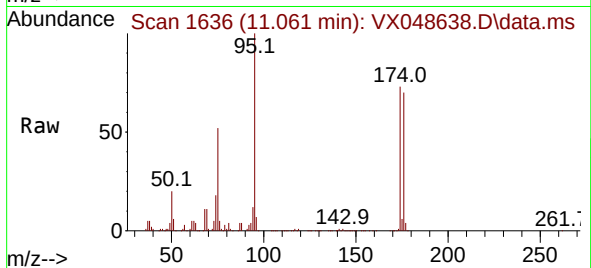
Tgt Ion: 95 Resp: 206656

Ion Ratio Lower Upper

95 100

174 78.4 0.0 161.8

176 75.2 0.0 153.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048638.D

Acq: 20 Nov 2025 15:36

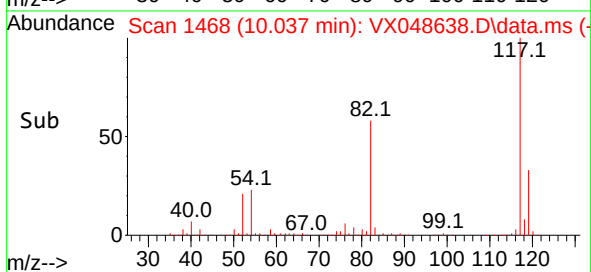
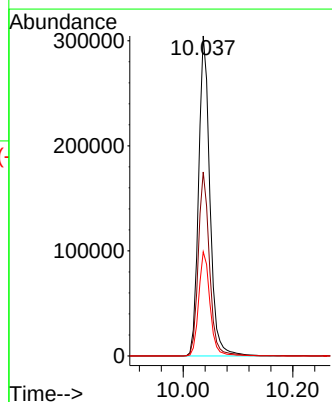
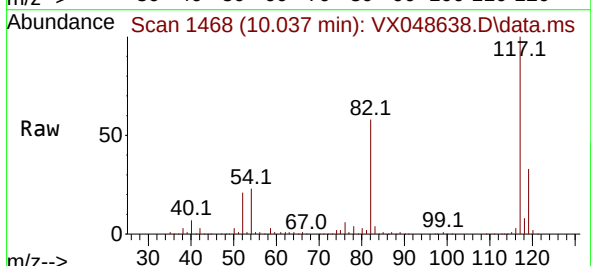
Tgt Ion: 117 Resp: 438136

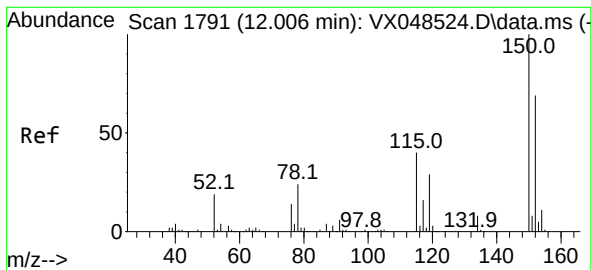
Ion Ratio Lower Upper

117 100

82 57.5 44.4 66.6

119 32.6 25.1 37.7

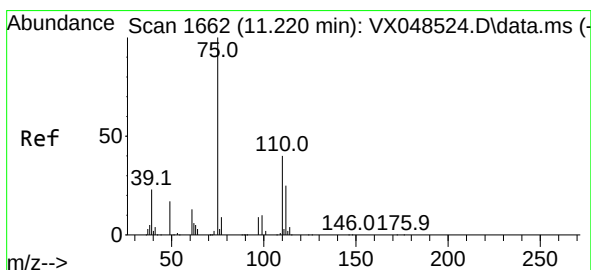
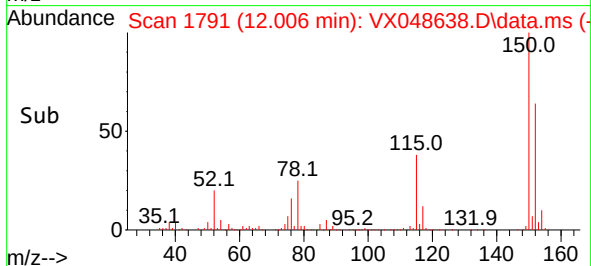
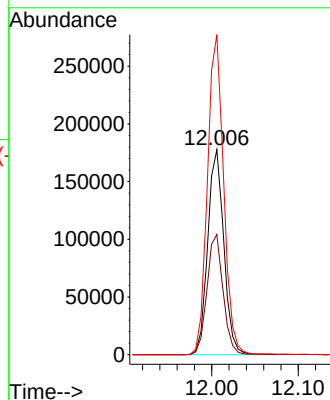
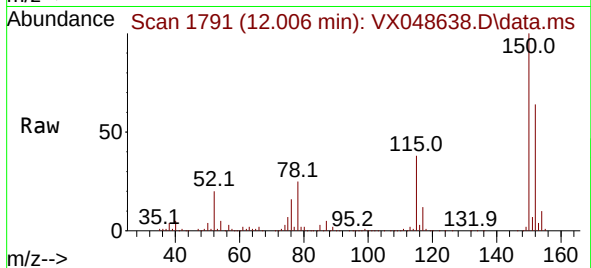




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.006 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX048638.D  
 Acq: 20 Nov 2025 15:36

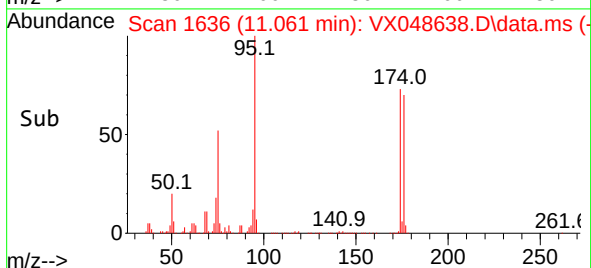
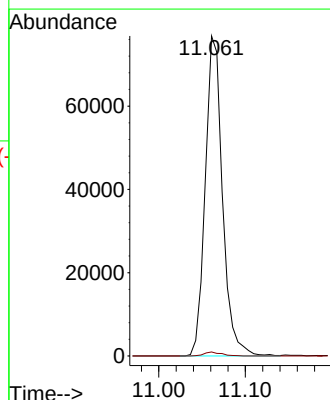
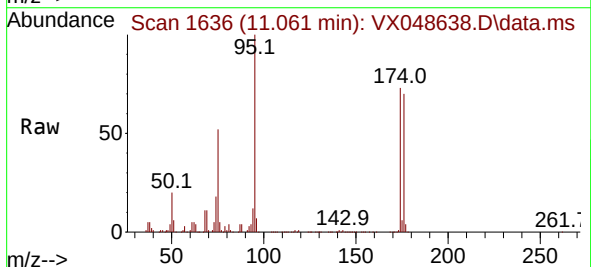
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 4198

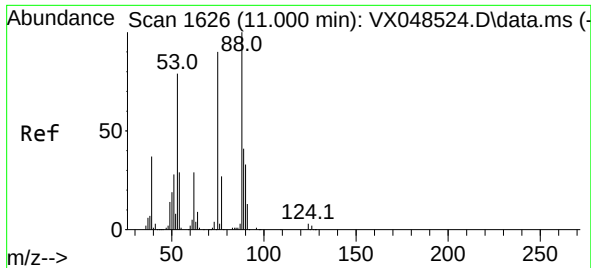
Tgt Ion:152 Resp: 229391  
 Ion Ratio Lower Upper  
 152 100  
 115 58.8 39.2 117.6  
 150 157.4 0.0 347.0



#76  
 1,2,3-Trichloropropane  
 Concen: 19.244 ug/l  
 RT: 11.061 min Scan# 1636  
 Delta R.T. -0.159 min  
 Lab File: VX048638.D  
 Acq: 20 Nov 2025 15:36

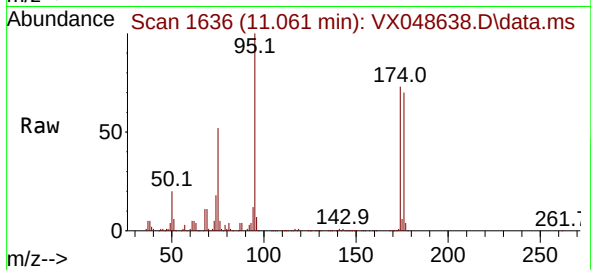
Tgt Ion: 75 Resp: 106349  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 24.3 72.8#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 55.044 ug/l  
 RT: 11.061 min Scan# 10  
 Delta R.T. 0.061 min  
 Lab File: VX048638.D  
 Acq: 20 Nov 2025 15:36

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 4198



Tgt Ion: 75 Resp: 106349  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 72.4 108.6#  
 89 0.1 43.6 65.4#

